

Jiaju Zhou · Guirong Xie · Xinjian Yan

Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Vol.1

Isolated Compounds A-C

 Springer

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Activities, Natural Sources and Applications

Vol. 1: Isolated Compounds A-C

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Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

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Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

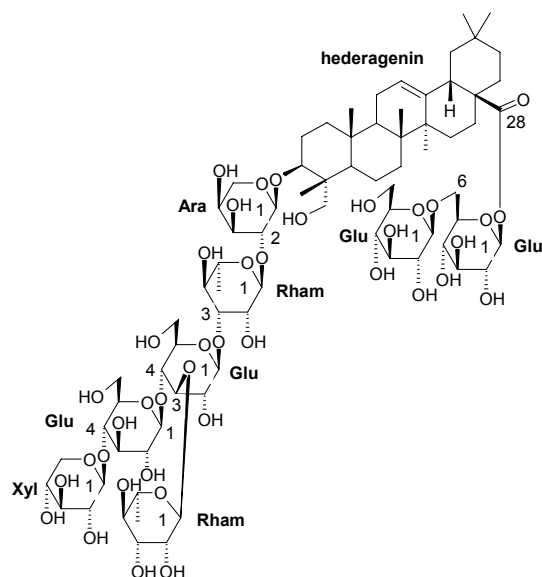
Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl(1 \rightarrow 4)]
 [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)-
 α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-
 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside

Normalization of Pharmacological Data. More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD₅₀, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

Term name (*in vitro/in vivo*,
 target cell **1**, quantitative data,
 control Compound, control's data;
 target cell **2**, quantitative data,
 control Compound, control's data;
 target cell **3**, quantitative data,
 control Compound, control's data;
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, IC₅₀ = 4.7µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 0.08µg/mL;
 CHAGO human undifferentiated lung cancer cell, IC₅₀ = 5.7µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 2.3µg/mL;
 HepG2 human liver cancer cell, IC₅₀ = 6.5µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 0.9µg/mL;
 Kato3 human gastric cancer cell, IC₅₀ = 5.3µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 1.7µg/mL;
 SW620 human colorectal adenocarcinoma cell, IC₅₀ = 5.6µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 1.1µg/mL).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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- R03** Chinese Materia Medica Editing Committee of the National Chinese Medicine and Pharmacology Bureau, *Chinese Materia Medica* (“ZHONG HUA BEN CAO”), Vol. 1–Vol. 30, Shanghai Science and technology Press, Shanghai, 1999
- R04** J. Buckingham (Executive Editor), *Dictionary of Natural Products*, Chapman & Hall, London, Vol. 1–Vol. 7 1994; Vol. 8, 1995; Vol. 9, 1996; Vol. 10, 1997; Vol. 11, 1998

(English translation tools)

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(Names of plant, bacteria, fungus)

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How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

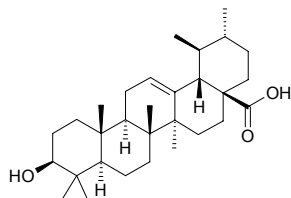
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

Cytotoxic (KB, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.12μg/mL; Hep3B, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.14μg/mL; Colon205, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.10μg/mL; HeLa, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.11μg/mL)^[4369];

cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)μmol/L, control Etoposide, IC₅₀ = (0.5±0.2)μmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)μmol/L; KB cell, IC₅₀ = (8.2±2.7)μmol/L, Etoposide, IC₅₀ = (0.9±0.3)μmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)μmol/L; HT29 cell, IC₅₀ = (4.7±1.5)μmol/L, Etoposide, IC₅₀ = (2.4±0.5)μmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)μmol/L)^[5254];

antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);

antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];

antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300μg/mL, gram-positive bacteria *in vitro*, MIC = 50~400μg/mL, gram-negative bacteria *in vitro*, MIC = 200~800μg/mL, microzyme *in vitro*, MIC = 100~700μg/mL);

antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9μg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5μg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03μg/mL, IC₅₀ = 98.3μg/mL, SI = 3277)^[4986];

anticonvulsant (induced by corazol);

anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);

anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];

COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130μmol/L)^[4415];

COX-2 enzyme inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];

antipyretic (clearly reduces normal body temperature of rat);

reduces serum transaminase (animal, 100mg/kg);

antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2μmol/L, control Gentian violet, MLC = 6.2μmol/L)^[2579];

mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];

platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (511±4)μmol/L, control ASA, IC₅₀ = (420±3)μmol/L; 1~4μmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)μmol/L, ASA, IC₅₀ = (53.0±4.5)μmol/L; 10~40μmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)μmol/L, ASA, IC₅₀ = (66.0±2.1)μmol/L; 1~5μmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (340±12)μmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)μmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (ltn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	D-GalN	D-galactosamine
c	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	N-methyl-D-aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmn Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccina open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGc803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

Volume 1 Isolated Compounds (A-C)

The Isolated Compounds part of the books lists in alphabetical order all 23033 isolated compounds key names isolated from 6926 TCM original plants and congeners. Following symbols in prefix are ineffective in ordering: *D-*, *L-*, *dl*, *R-*, *S-*, *E-*, *Z-*, *O-*, *N-*, *C-*, *H-*, *cis-*, *trans-*, *ent-*, *meso-*, *rel-*, *erythro-*, *threo-*, *sec-*, *chiro-*, *para-*, *exo-*, *m-*, *o-*, *p-*, *n-*, *α-*, *β-*, *γ-*, *δ-*, *ε-*, *κ-*, *ξ-*, *ψ-*, *ω-*, (+), (-), (±) etc., and: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, {, }, [,], (,), ,, ;, *, ', ", "", →, etc.

For each compound entry, data terms are listed as following format:

Title line: **compound code** **main name**

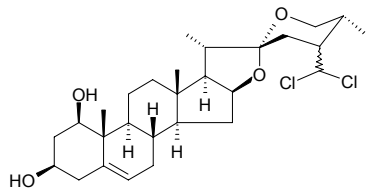
Data body: other name(s) [CASRN] formula (relative molecular mass). Physico-chemical properties. **Pharm:** a sequence of formatted pharmacological activity data. **Source:** a sequence of combination of plant PIN-YIN name and Latin name. **Ref:** a sequence of reference numbers.

STRUCTURE DIAGRAM

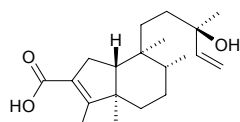
A

1 Abamagenin

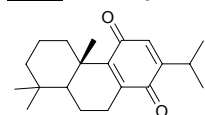
[38094-55-2] C₂₈H₄₂Cl₂O₄ (513.55). Source: HU WEI LAN *Sansevieria trifasciata*. Ref: 1552.

**2 (+)-(4→2)-Abeo-kolavleool-3-oic acid**

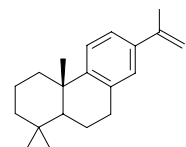
C₂₀H₃₄O₃ (320.48). Colorless amorphous solid, $[\alpha]_D^{25} = +23.8^\circ$ ($c = 0.04$, CHCl₃). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.

**3 Abieta-8,12-dien-11,14-dione**

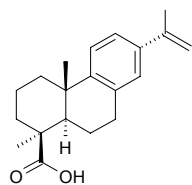
12-Deoxyroyleanone C₂₀H₂₈O₂ (300.44). $[\alpha]_D^{20} = -60.0^\circ$ ($c = 0.05$, CHCl₃). Source: TU ER QI SHU WEI CAO *Salvia cilicica*. Ref: 1930.

**4 (+)-8,11,13,15-Abietatetraene**

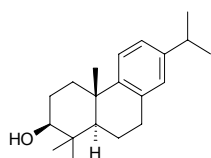
C₂₀H₂₈ (268.45). $[\alpha]_D^{24} = +48.2^\circ$ ($c = 0.22$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp; yield = 0.00011%dw). Ref: 4697.

**5 8,11,13,15-Abietatetraen-19-oic acid**

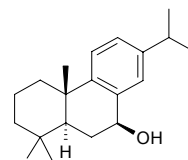
C₂₀H₂₆O₂ (298.43). White amorphous powder. Source: JIA DI FENG PI *Illicium jiadifengpi* (bark). Ref: 4560.

**6 Abietatriene-3β-ol**

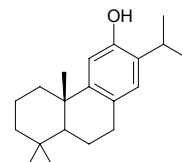
[78078-41-8] C₂₀H₃₀O (286.46). mp 109~111°C, (nat.), 136.5~138°C (syn.), $[\alpha]_D = +50.4^\circ$ (CHCl₃). Source: MAN JING ZI *Vitex trifolia*. Ref: 746, 1521.

**7 Abieta-8,11,13-trien-7β-ol**

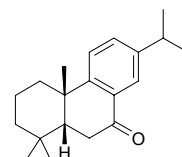
C₂₀H₃₀O (286.46). $[\alpha]_D^{25} = +34.2^\circ$ ($c = 1.0$, CHCl₃). Source: CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*. Ref: 5401.

**8 (+)-8,11,13-Abietatrien-12-ol**

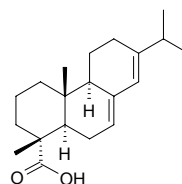
C₂₀H₃₀O (286.46). Orange gum, $[\alpha]_D^{26.7} = +20.7^\circ$ ($c = 10.15$, CHCl₃). Pharm: Antiplasmodial (*Plasmodium falciparum* K1 *in vitro*, IC₅₀ = (0.63±0.05)μg/mL, control Chloroquine, IC₅₀ = (0.18±0.01)μg/mL; D10, IC₅₀ = (0.95±0.08)μg/mL, Chloroquine, IC₅₀ = (0.012±0.001)μg/mL); cytotoxic (CHO, *in vitro*, IC₅₀ = (51.69±2.67)μg/mL; control Daunorubicin IC₅₀ = (1.53±0.15)μg/mL; HepG2 IC₅₀ = (43.71±6.07)μg/mL, Daunorubicin IC₅₀ = (1.46±0.20)μg/mL). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5438.

**9 Abieta-8,11,13-trien-7-one**

C₂₀H₂₈O (284.45). Pharm: 12(S)-LOX inhibitor inactive (hmn platelets, 100μg/mL, 12(S)-HETE Production inhibitor inactive). Source: OU ZHOU CI BAI *Juniperus communis* (wood), YUAN BAI *Sabina chinensis*. Ref: 4980.

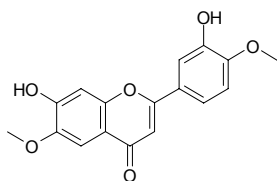
**10 Abietic acid**

7,13-Abietadien-18-oil acid; Sylvic acid [514-10-3] C₂₀H₃₀O₂ (302.46). Lamellar crystals (ethanol), mp 171~173°C, $[\alpha]_D^{15} = -102^\circ$ (ethanol); mp (-) 171~173°C, (±) 148~150°C. Pharm: Antibacterial (*Streptococcus* var., MIC = 25mg/L; *Staphylococcus aureus*, MIC = 100mg/L; *Corynebacterium acnes*, MIC = 25μg/mL); antineoplastic (S₁₈₀); antithrombotic; Na⁺, K⁺-ATP inhibitor; antiulcerative; promotes growth of bacteria producing butyric and lactic acids; topical protectant; toxin (pulmonary toxicity). Source: SONG XIANG *Pinus massoniana*. Ref: 6, 631, 900.

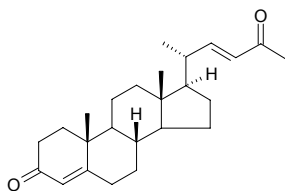


11 Abrectorin

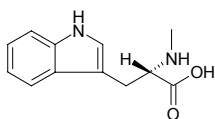
3',7-Dihydroxy-4',6-dimethoxyflavone C₁₇H₁₄O₆ (314.30). Crystals, mp 229~230°C, 273~274°C. [Source](#): XIANG SI TENG *Abrus precatorius*. [Ref](#): 660.

**12 Abridin**

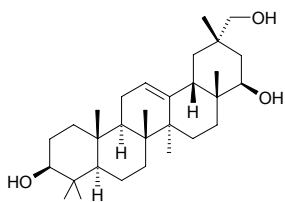
C₂₅H₃₆O₂ (368.56). Crystals (MeOH), mp 67~68°C. [Source](#): XIANG SI ZI *Abrus precatorius*. [Ref](#): 660.

**13 Abrine**

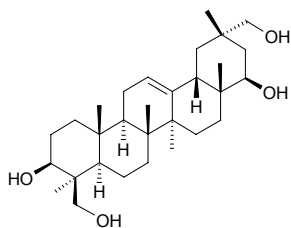
N-Methyl-*L*-tryptophan [526-31-8] C₁₂H₁₄N₂O₂ (218.26). Prismatic crystals (water), mp 295°C (dec). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*] (dried whole herb: content = 0.0317%^[5508]), XIANG SI ZI *Abrus precatorius*. [Ref](#): 1, 5, 6, 5508.

**14 Abrisapogenol A**

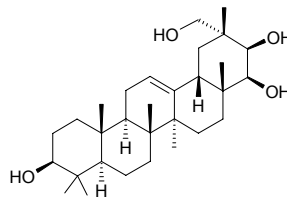
C₃₀H₅₀O₃ (458.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. [Ref](#): 1523.

**15 Abrisapogenol B**

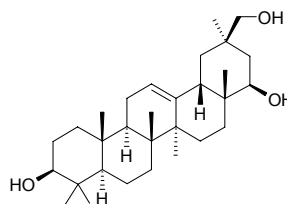
[121994-06-7] C₃₀H₅₀O₄ (474.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. [Ref](#): 1524.

**16 Abrisapogenol C**

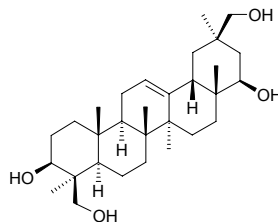
C₃₀H₅₀O₄ (474.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. [Ref](#): 1523, 1525.

**17 Abrisapogenol D**

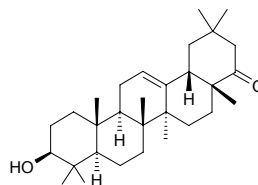
[10379-65-4] C₃₀H₅₀O₃ (458.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. [Ref](#): 1524, 1525.

**18 Abrisapogenol E**

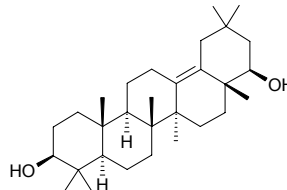
[121994-07-8] C₃₀H₅₀O₄ (474.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. [Ref](#): 1524, 1525.

**19 Abrisapogenol F**

[121994-08-9] C₃₀H₄₈O₂ (440.72). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. [Ref](#): 1524.

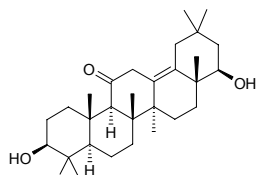
**20 Abrisapogenol G**

[121994-09-0] C₃₀H₅₀O₂ (442.73). [Source](#): JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. [Ref](#): 1524.

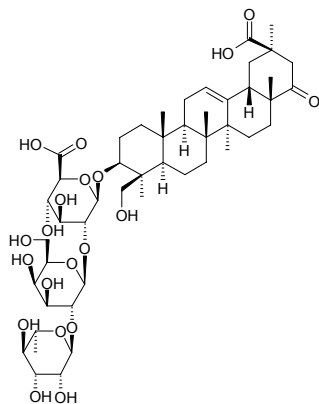


21 Abrisapogenol J

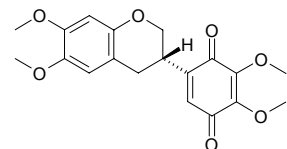
$C_{30}H_{48}O_3$ (456.72). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1527.

**22 Abrisaponin I**

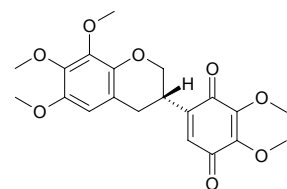
$C_{48}H_{74}O_{20}$ (971.11). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1521, 1526.

**23 Abruquinone A**

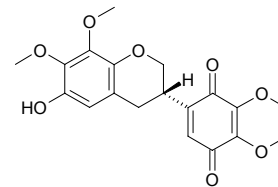
[71593-10-7] $C_{19}H_{20}O_7$ (360.37). Pharm: Platelet aggregation inhibitor; antiallergic and anti-inflammatory (inhibits formation of peroxide, $IC_{50} < 0.3 \mu\text{g/mL}$, inhibits rat neutrophilic cell, $IC_{50} < 1 \mu\text{g/mL}$, inhibits release of β -glucuronidase, lysozym and histamine in mastocyte, $IC_{50} < 1 \mu\text{g/mL}$); reduces plasma's exsmosis (normal or treated mus, bradykinin-induced or P substance-induced). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1528, 1687.

**24 Abruquinone B**

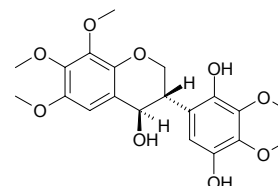
[71593-09-4] $C_{20}H_{22}O_8$ (390.39). Brown viscous liquid, $[\alpha]_D^{25} = +128.6^\circ$ ($c = 0.25$, MeOH). Pharm: platelet aggregation inhibitor (rbt, caused by arachidonic acid, $IC_{50} < 5 \mu\text{g/mL}$, caused by collagen, $IC_{50} < 5 \mu\text{g/mL}$)^[1528]; antituberculosic (MIC = $(12.5 \pm 0.0) \mu\text{g/mL}$)^[4956]; antimalarial (antiplasmodial, $IC_{50} = (1.5 \pm 0.2) \mu\text{g/mL}$)^[4956]; cytotoxic (Vero cells, $IC_{50} > 50 \mu\text{g/mL}$; KB cells, $IC_{50} = (9.9 \pm 0.3) \mu\text{g/mL}$; BC cells, $IC_{50} = (5.7 \pm 0.2) \mu\text{g/mL}$)^[4956]. Source: XIANG SI ZI *Abrus precatorius*, XIANG SI TENG *Abrus precatorius* (aerial parts). Ref: 1528, 4956.

**25 Abruquinone C**

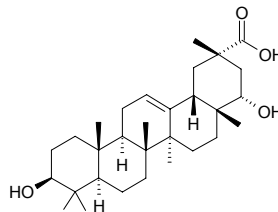
[71593-11-8] $C_{19}H_{20}O_8$ (376.37). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1528.

**26 Abruquinone G**

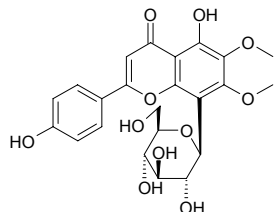
$C_{20}H_{24}O_9$ (408.41). White needles, $[\alpha]_D^{25} = -56.3^\circ$ ($c = 0.64$, MeOH). Pharm: Antiviral ($IC_{50} = 20\text{--}50 \mu\text{g/mL}$); cytotoxic (Vero cell, $IC_{50} = 30\text{--}40 \mu\text{g/mL}$). Source: XIANG SI TENG *Abrus precatorius* (aerial parts). Ref: 4956.

**27 Abrusgenic acid**

Maytenfolic acid; $3\beta,22\alpha$ -Dihydroxyolean-12-en-29-oic acid [84108-17-8] $C_{30}H_{48}O_4$ (472.71). Colorless acicular crystals, mp $320\text{--}322^\circ\text{C}$, $[\alpha]_D = 34.2^\circ$ ($c = 1.2$, pyridine). Pharm: Antineoplastic (P_{388} , 6.25mg/kg, biotic prolonged rate = 148%)^[1207]; anti-HIV (inhibits HIV replication, H9 lymphocytes, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) $> 25 \mu\text{g/mL}$, $EC_{50} = 5.65 \mu\text{g/mL}$, TI = $4.40 \mu\text{g/mL}$, control AZT, $IC_{50} = 500 \mu\text{g/mL}$, $EC_{50} = 0.0007 \mu\text{g/mL}$, TI = 737207)^[4267]; anti-inflammatory^[1207]; DPPH scavenger inactive (for $40 \mu\text{mol/L}$ DPPH radical, $SC_{50} > 40 \mu\text{mol/L}$)^[4378]. Source: HEI MAN *Tripterygium regelii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*, SI MIAN MU *Euonymus bungeanus*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), XIANG SI TENG *Abrus precatorius*, XIANG SI ZI *Abrus precatorius*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 1207, 1300, 4267, 4378.

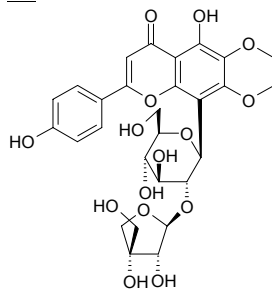
**28 Abrusin**

[120727-02-8] $C_{23}H_{24}O_{11}$ (476.44). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1527.

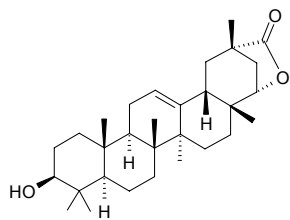


29 Abrusin-2''-O-apioside

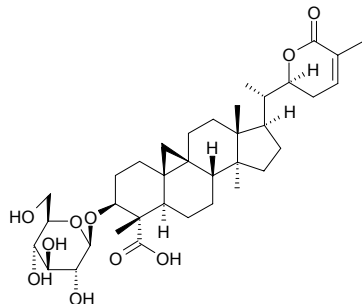
[120727-04-0] $C_{28}H_{32}O_{15}$ (608.56). Source: XIANG SI ZI *Abrus precatorius*.
Ref: 1527.

**30 Abruslactone A**

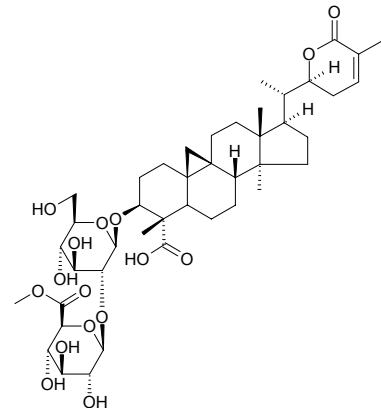
[84104-71-2] $C_{30}H_{46}O_3$ (454.70). Source: BAO XING WEI MAO *Euonymus mupinensis*, LEI GONG TENG *Tripterygium wilfordii*, XIANG SI TENG *Abrus precatorius*, XIANG SI ZI *Abrus precatorius*. Ref: 2, 278, 1300.

**31 Abrusoside A**

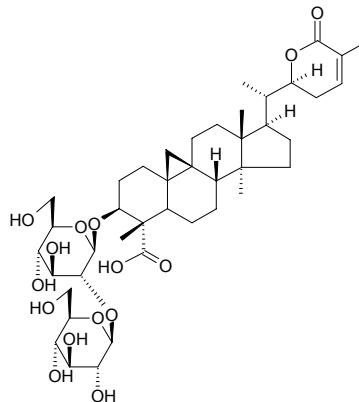
[124962-06-7] $C_{36}H_{54}O_{10}$ (646.83). Pharm: Sweetener. Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], XIANG SI ZI *Abrus precatorius*. Ref: 658.

**32 Abrusoside B**

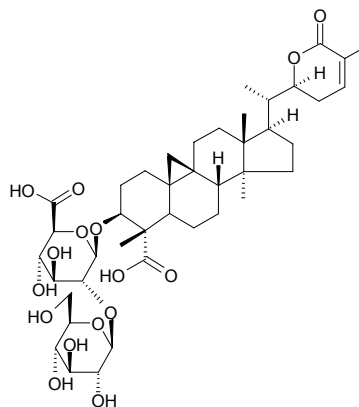
$C_{43}H_{64}O_{16}$ (836.98). Crystals, mp 243~245°C, $[\alpha]_D = +5.8^\circ$ ($c = 0.35$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

**33 Abrusoside C**

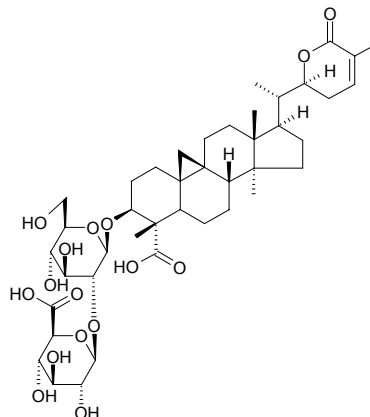
$C_{42}H_{64}O_{15}$ (808.97). Crystals, mp 260~262°C, $[\alpha]_D = +31.4^\circ$ ($c = 0.34$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

**34 Abrusoside D**

$C_{42}H_{62}O_{16}$ (822.95). Crystals, mp 237~239°C, $[\alpha]_D = +9.9^\circ$ ($c = 0.31$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

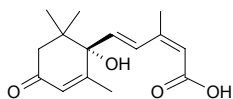
**35 Abrusoside E**

$C_{42}H_{62}O_{16}$ (822.95). Amorphous powder, mp 265°C (dec), $[\alpha]_D = +2^\circ$ ($c = 0.2$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 1521.

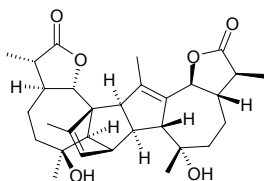


36 Abscisic acid

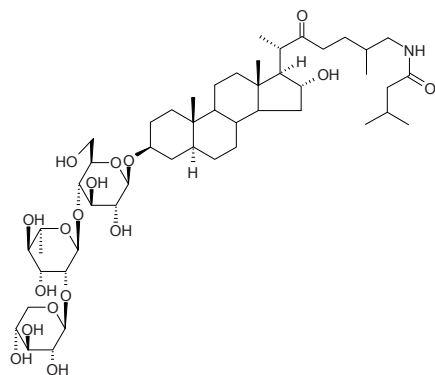
[21293-29-8] $C_{15}H_{20}O_4$ (264.32). mp 160~163°C, soluble in diethyl ether. **Pharm:** Hormone of defoliation; germination inhibitor (seed and ball root). **Source:** LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], WAN DOU *Pisum sativum* (in 1967, the compound was isolated from the plant by Y. Isogaya, et al.)^[5505], XIANG SI ZI *Abrus precatorius*. **Ref:** 2, 658, 5505.

**37 Absinthin**

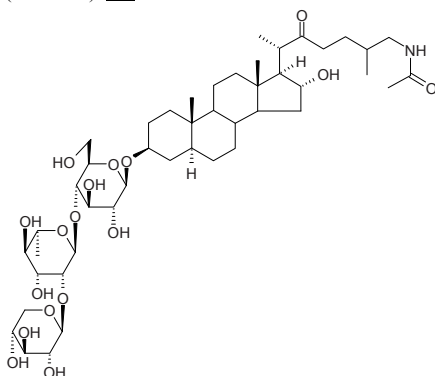
[1362-42-1] $C_{30}H_{40}O_6$ (496.65). Orange acicular crystals (anhydrous ether), mp 179~183°C (dec). **Pharm:** Anti-inflammatory (rat, orl, experimental gastric ulcer, also promotes gastric wall regeneration); supertoxic agent (causes tension, hyperspasmia, and even death after aspiration). **Source:** ZHONG YA KU HAO *Artemisia absinthium*, BAI HAO *Artemisia sieversiana*. **Ref:** 1, 6.

**38 Abutiloside A**

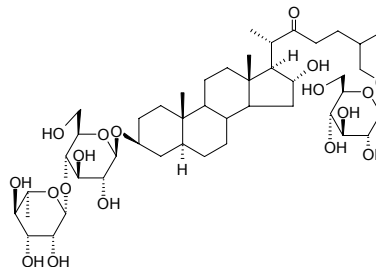
$C_{49}H_{83}NO_{17}$ (958.20). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**39 Abutiloside B**

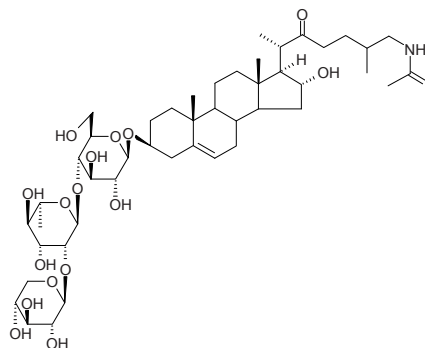
$C_{46}H_{77}NO_{17}$ (916.12). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**40 Abutiloside F**

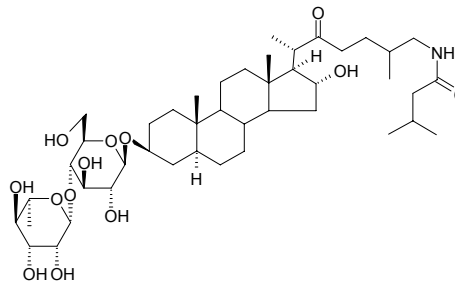
$C_{45}H_{76}O_{18}$ (905.10). **Source:** MAZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**41 Abutiloside H**

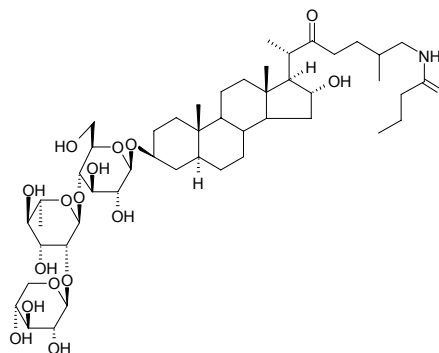
26-Acetylamino-3 β ,16 α -dihydroxy-cholest-5-en-22-one-3-O- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside $C_{46}H_{75}NO_{17}$ (914.11). White powder, $[\alpha]_D^{25} = -107.0^\circ$ ($c = 0.20$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**42 Abutiloside I**

$C_{44}H_{75}NO_{13}$ (826.09). White powder, $[\alpha]_D^{25} = -38.7^\circ$ ($c = 0.15$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

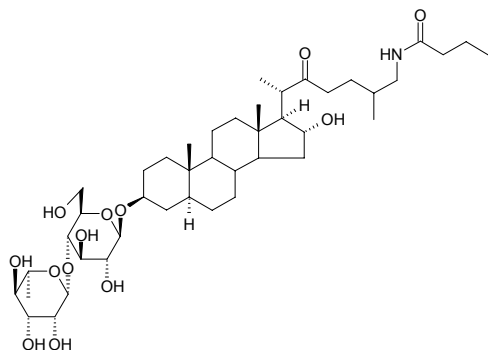
**43 Abutiloside J**

$C_{48}H_{81}NO_{17}$ (944.18). White powder, $[\alpha]_D^{25} = -54.1^\circ$ ($c = 0.95$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

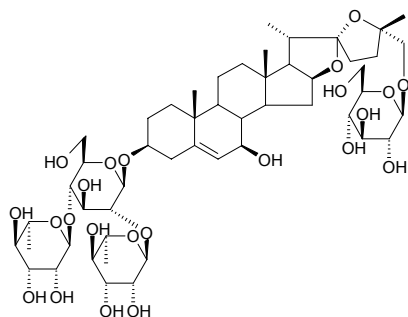


44 Abutiloside K

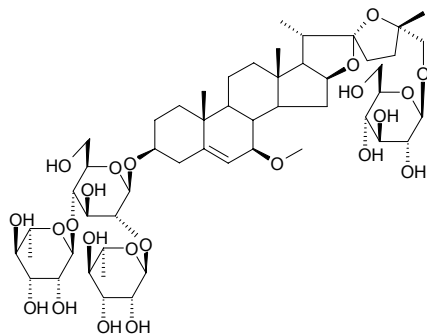
$C_{43}H_{73}NO_{13}$ (812.06). White powder, $[\alpha]_D^{25} = -50.4^\circ$ ($c = 0.25$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fresh root). Ref: 4166.

**45 Abutiloside L**

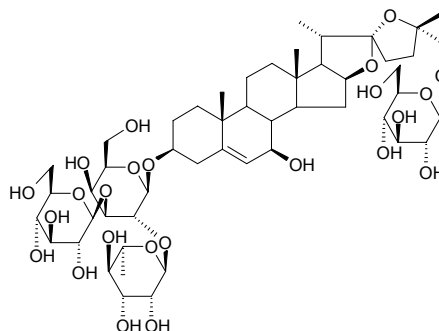
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3 β ,7 β ,26-triol 3-*O*- β -chacotrioside $C_{51}H_{82}O_{23}$ (1063.21). White powder, $[\alpha]_D^{25} = -107.1^\circ$ ($c = 1.15$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**46 Abutiloside M**

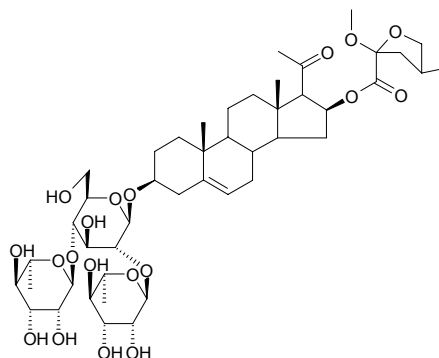
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-7 β -methoxy-furost-5-ene-3 β ,26-diol 3-*O*- β -chacotrioside $C_{52}H_{84}O_{23}$ (1077.24). White powder, $[\alpha]_D^{25} = -110.9^\circ$ ($c = 0.37$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**47 Abutiloside N**

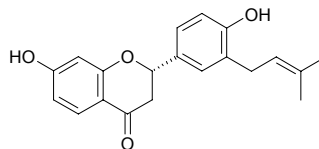
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3 β ,7 β ,26-triol 3-*O*- β -sallatriside $C_{51}H_{82}O_{24}$ (1079.21). White powder, $[\alpha]_D^{25} = -84.8^\circ$ ($c = 0.24$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**48 Abutiloside O**

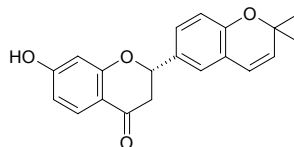
3-*O*- β -*D*-Chacotriosyl-3 β ,16 β -dihydroxy-pregn-5-en-20-one-16-*O*-(2,5-epoxy-2-methoxy-4-methyl-pentanoic acid)-ester $C_{46}H_{72}O_{19}$ (929.08). White powder, $[\alpha]_D^{25} = -46.5^\circ$ ($c = 0.34$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**49 (2*R*)-Abyssinone**

$C_{20}H_{20}O_4$ (324.38). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2431.

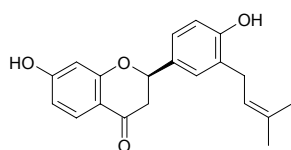
**50 (2*R*)-Abyssinone I**

[77263-07-1] $C_{20}H_{18}O_4$ (322.36). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 25 μ g/mL; *Bacillus subtilis*, MIC = 25 μ g/mL; *Sclerotinia libertiana*, MIC = 12.5 μ g/mL; *Mucor mucedo*, MIC = 50 μ g/mL). Source: A BI XI NI YA CI TONG *Erythrina abyssinica*. Ref: 1551.

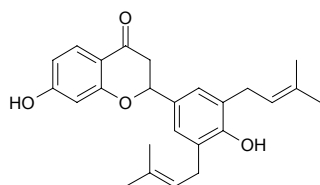


51 (2S)-Abyssinone II

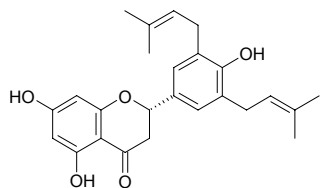
4',7-Dihydroxy-3'-prenylflavanone C₂₀H₂₀O₄ (324.38). **Pharm:** Aromatase inhibitor (*in vitro*, IC₅₀ = 0.4μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]; cytotoxic (aromatase inhibitor, a promising lead as potential cancer chemopreventive agent)^[5038]; antibacterial (*Escherichia coli*, MIA = 10.00μg, control Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.50μg, Chloramphenicol, MIA = 0.0001μg; *Bacillus subtilis*, MIA = 0.50μg, Chloramphenicol, MIA = 0.0001μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.01μg, control Miconazole, MIA = 0.0001μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.5μg, IC₅₀ = 630μg/mL; control Quercetin, MIA < 0.05μg, IC₅₀ = 7μg/mL, Gallic acid, MIA < 0.05μg, IC₅₀ = 4μg/mL; Ascorbic acid, MIA < 0.10μg, IC₅₀ = 18μg/mL)^[5247]. **Source:** GOU SHU *Broussonetia papyrifera*, JI KUAN CI TONG *Erythrina latissima* (stem wood). **Ref:** 3090, 5038, 5247.

**52 Abyssinone IV**

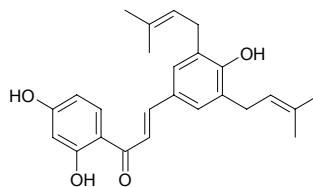
C₂₅H₂₈O₄ (392.50). **Pharm:** Antimalarial (*Plasmodium falciparum* D6 strain, IC₅₀ = (5.4±1.5)μg/mL, control Chloroquine, IC₅₀ = (0.009±0.002)μg/mL, Quinine, IC₅₀ = (0.04±0.01)μg/mL; *Plasmodium falciparum* W2 strain, IC₅₀ = (5.9±1.8)μg/mL, Chloroquine, IC₅₀ = (0.08±0.003)μg/mL, Quinine, IC₅₀ = (0.21±0.01)μg/mL)^[3879]; antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, IC₅₀ = (7.7±1.6)μmol/L, control Quinine, IC₅₀ = (0.21±0.01)μmol/L; D6 strain, IC₅₀ = (9.0±2.1)μmol/L, Quinine, IC₅₀ = (0.042±0.002)μmol/L)^[5420]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem bark, root bark). **Ref:** 3879, 5420.

**53 Abyssinone V**

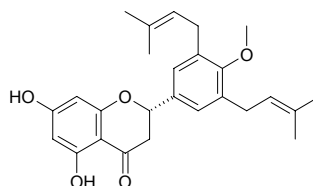
[77263-11-7] C₂₅H₂₈O₅ (408.50). **Pharm:** Antimalarial (*Plasmodium falciparum* D6 strain, IC₅₀ = (4.9±0.8)μg/mL, control Chloroquine, IC₅₀ = (0.009±0.002)μg/mL, Quinine, IC₅₀ = (0.04±0.01)μg/mL; *Plasmodium falciparum* W2 strain, IC₅₀ = (6.1±1.3)μg/mL, Chloroquine, IC₅₀ = (0.08±0.003)μg/mL, Quinine, IC₅₀ = (0.21±0.01)μg/mL)^[3879]; antibacterial (*Staphylococcus aureus*, *Bacillus subtilis* and *Micrococcus lysodeikticus*)^[658]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*. **Ref:** 658, 3879.

**54 Abyssinone VI**

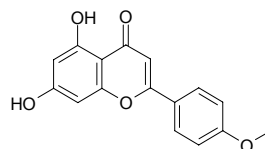
[77263-12-8] C₂₅H₂₈O₄ (392.50). **Pharm:** Platelet aggregation inhibitor (rbt). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*. **Ref:** 658.

**55 Abyssinone V-4'-methyl ether**

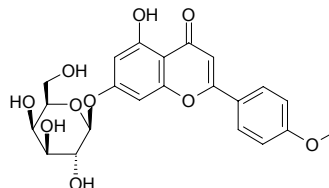
C₂₆H₃₀O₅ (422.53). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, IC₅₀ = (11.3±2.1)μg/mL, control Chloroquine, IC₅₀ = (0.009±0.002)μg/mL, Quinine, IC₅₀ = (0.04±0.01)μg/mL; *Plasmodium falciparum* W2, IC₅₀ = (11.1±2.4)μg/mL, Chloroquine, IC₅₀ = (0.08±0.003)μg/mL, Quinine, IC₅₀ = (0.21±0.01)μg/mL)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem bark), KEN NI YA CI TONG *Erythrina burttii*. **Ref:** 1521, 3879.

**56 Acacetin**

5,7-Dihydroxy-4'-methoxyflavone [480-44-4] C₁₆H₁₂O₅ (284.27). Yellow acicular crystals (95% alcohol), mp 263°C, soluble in ethanol. **Pharm:** Anti-inflammatory (mus, orl 25~100mg/kg, reduces formaldehyde edema; mus, orl, 50~100mg/kg, reduces intestinal vascular permeability and brittleness); antispasmodic; similar action with vitamin P (quercetin-like action); LD₅₀ (mus) = 933mg/kg. **Source:** CI HUI HUA *Robinia pseudoacacia*, FENG JIAO *Apis mellifera ligustica*, HUO XIANG *Agastache rugosus*, JIAN QIU LUO MAO RUI HUA *Verbascum lychnites*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], LI ZHI HAO *Ajuga forrestii*, MI MENG HUA *Buddleja officinalis*, YE JU HUA *Chrysanthemum indicum*, *Nuxia sphaerocephala* (leaf). **Ref:** 1, 7, 319, 369, 463, 4419, 5501.

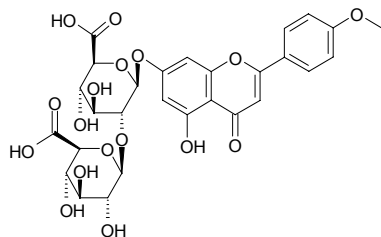
**57 Acacetin-7-O-β-D-galactopyranoside**

C₂₂H₂₂O₁₀ (446.41). Crystals (MeOH-Me₂CO), mp 259°C (dec), [α]_D²⁵ = -36.6° (c = 0.55, DMF), [α]_D²⁵ = -60° (MeOH). **Source:** YE JU HUA *Chrysanthemum indicum*. **Ref:** 660.

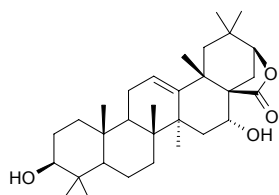


58 Acacetin-7-glucurono-(1→2)-glucuronide

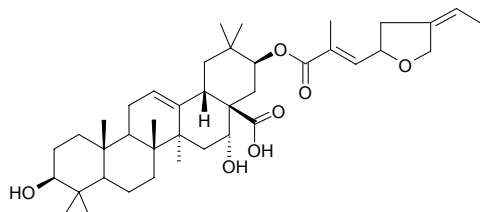
$C_{28}H_{28}O_{17}$ (636.53). mp 191~205°C (dec). Source: CHOU WU TONG *Clerodendron trichotomum*. Ref: 6.

**59 Acacic acid lactone**

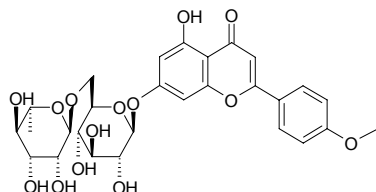
$C_{30}H_{46}O_4$ (470.70). Needles (EtOH), mp 255~257°C, $[\alpha]_D^{20} = +4.2^\circ$ (CHCl₃). Source: HE HUAN PI *Albizzia julibrissin*, *Acacia* spp. Ref: 660, 1521.

**60 Acacigenin B**

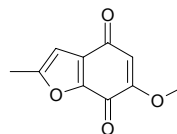
$C_{40}H_{60}O_7$ (652.92). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 660.

**61 Acaciin**

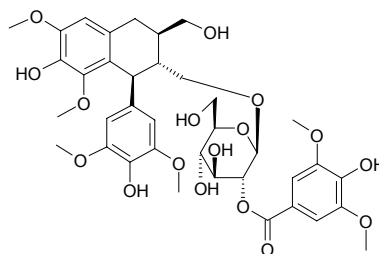
Acacetin 7-*O*-(6''-*α*-*L*-rhamnopyranosyl)-*β*-*D*-glucopyranoside [480-36-4] $C_{28}H_{32}O_{14}$ (592.56). mp 263°C. Pharm: Phosphodiesterase inhibitor (selectively inhibits phosphodiesterase in cerebrum, cardiac muscle and EAC cell); aldose reductase inhibitor (mus, eye lens, IC₅₀ = 0.75 μmol/L); antihepatotoxin (1.0g/mL, inhibits the rise of GPT caused by CCl₄ and galactosamine). Source: BEI YE JU *Chrysanthemum boreale*, CI HUAI HUA *Robinia pseudoacacia*, LING *Trapa bispinosa*, HUO XIANG *Agastache rugosus*, MI MENG HUA *Buddleja officinalis*, YE JU HUA *Chrysanthemum indicum* (capitulum: content scope of 14 origins = 0.01%~2.33%, mean content = 0.70%^[5508]), ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 2, 6, 369, 388, 660, 1286, 1606, 1607, 4214, 5501, 5508.

**62 Acamelin**

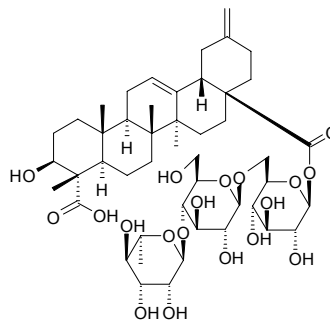
[74161-27-6] $C_{10}H_8O_4$ (192.17). Pharm: Allergen (Effective component in *Acacia melanoxylon* (HEI MU JIN HE HUAN) known to cause contact dermatitis). Source: HEI MU JIN HE HUAN *Acacia melanoxylon*. Ref: 658.

**63 Acanfolioside**

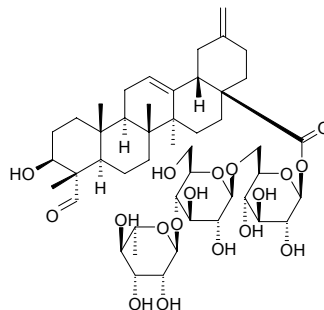
(+)-Lyoniresinol-3*α*-[2-(3,5-dimethoxy-4-hydroxy)-benzoyl]-*O*-*β*-glucopyranoside $C_{37}H_{46}O_{17}$ (762.77). Amorphous powder, $[\alpha]_D^{22} = +28.3^\circ$ (*c* = 2.7, MeOH). Source: LAO SHU LE *Acanthus ilicifolius* (aerial parts). Ref: 5135.

**64 Acanjaposide A**

$C_{47}H_{72}O_{19}$ (941.09). White powder, $[\alpha]_D^{25} = +24.8^\circ$ (*c* = 0.60, MeOH) Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

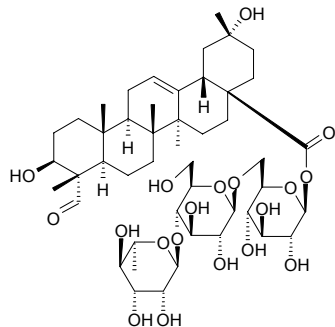
**65 Acanjaposide B**

$C_{47}H_{72}O_{18}$ (925.09). White solid, $[\alpha]_D^{25} = +18.9^\circ$ (*c* = 0.82, MeOH) Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

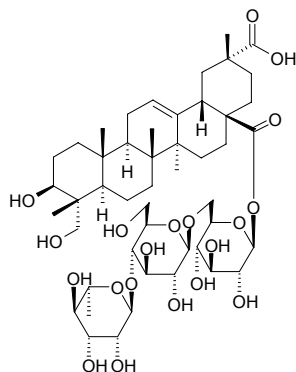


66 Acanjaposide C

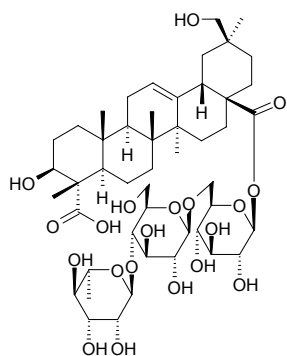
$C_{47}H_{74}O_{19}$ (943.10). White powder, $[\alpha]_D^{25} = +6.5^\circ$ ($c = 0.85$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

**67 Acanjaposide D**

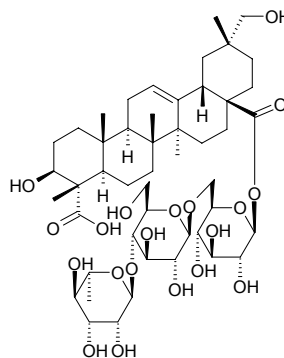
$3\beta,23$ -Dihydroxy-olean-12-ene-28,29-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = -12.0^\circ$ ($c = 0.61$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**68 Acanjaposide E**

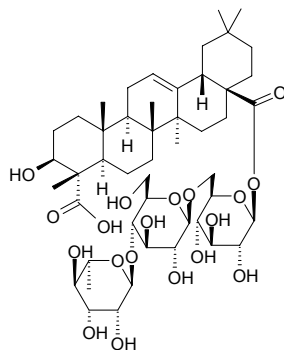
$3\beta,30$ -Dihydroxy-olean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = -3.6^\circ$ ($c = 1.08$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**69 Acanjaposide F**

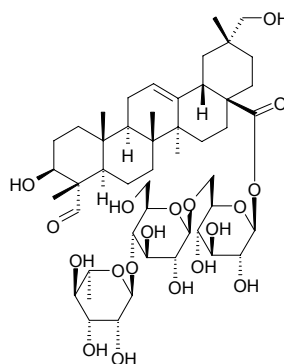
$3\beta,29$ -Hydroxy-olean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = +1.9^\circ$ ($c = 0.60$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**70 Acanjaposide G**

Gypsogenic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{19}$ (957.13). White powder, $[\alpha]_D^{25} = +1.5^\circ$ ($c = 1.15$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

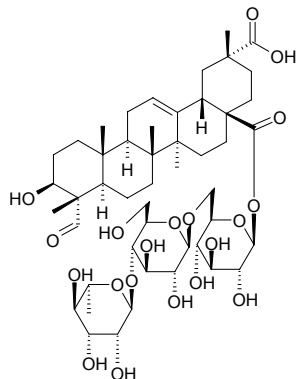
**71 Acanjaposide H**

3β -Hydroxyl-23-oxo-olean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{19}$ (957.13). White powder, $[\alpha]_D^{25} = +3.4^\circ$ ($c = 0.54$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

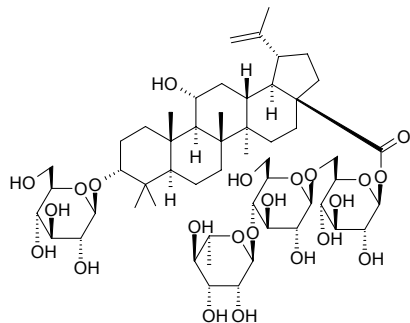


72 Acanjaposide I

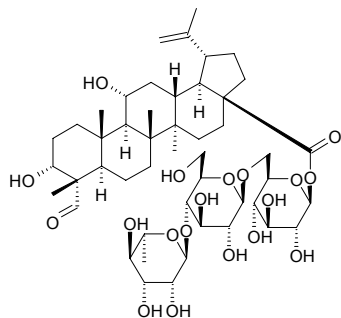
3 β -Hydroxyl-olean-12-en-28,29-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₄₈H₇₄O₂₀ (971.11). White powder, $[\alpha]_D^{25} = +3.6^\circ$ ($c = 0.56$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**73 Acankoreoside C**

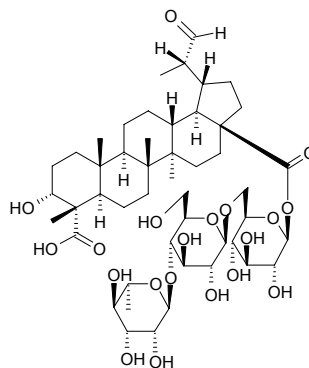
3-*O*- β -*D*-Glucopyranosyl 3 α ,11 α -dihydroxylup-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₅₄H₈₈O₂₃ (1105.29). White powder, mp 247~249°C (dil. MeOH), $[\alpha]_D^{26} = -44.6^\circ$ ($c = 0.36$, EtOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 1877.

**74 Acankoreoside D**

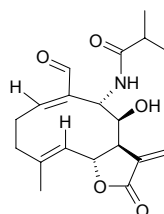
3 α ,11 α -Dihydroxylup-23-al-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₄₈H₇₆O₁₉ (957.13). White powder, mp 222~225°C (dil. MeOH), $[\alpha]_D^{26} = -40.8^\circ$ ($c = 0.37$, EtOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 1877.

**75 Acankoreoside E**

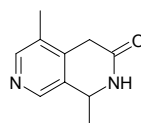
(20*S*)-3 α -Hydroxy-30-oxolupan-23,28-dioic acid 28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-ester C₄₈H₇₆O₂₀ (973.13). White powder, mp 223~227°C, $[\alpha]_D^{26} = -20.4^\circ$ ($c = 0.49$, MeOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 2533.

**76 Acanthamide**

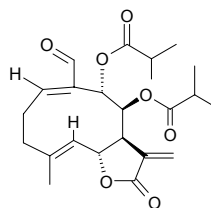
[64852-96-6] C₁₉H₂₅NO₅ (347.41). Colorless trapezoid crystals (benzene-methanol), mp 249~251°C. Pharm: Cytotoxic (KB *in vitro*, ED₅₀ = 2.2 μ g/mL). Source: GUANG CI BAO JU *Acanthospermum glabratum*. Ref: 1, 5, 661.

**77 Acanthifoline**

C₁₀H₁₂N₂O (176.22). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2080.

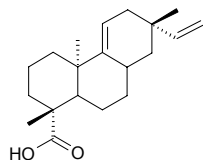
**78 Acanthoglabrolide**

[75744-66-0] C₂₃H₃₀O₇ (418.49). Pharm: Cytotoxic (KB *in vitro*, ED₅₀ = 3.1 μ g/mL). Source: GUANG CI BAO JU *Acanthospermum glabratum*. Ref: 1, 5.

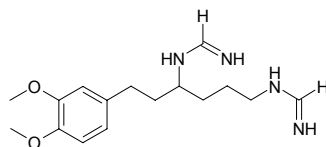


79 Acanthoic acid

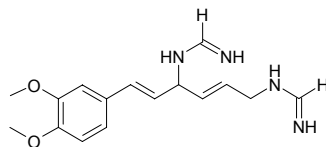
$C_{20}H_{30}O_2$ (302.46). Amorphous powder, mp 135~136°C, $[\alpha]_D^{20} = -55.7^\circ$ ($c = 1.0$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1, 10 and 100 μ mol/L, InRt = 23.9%, 37.1% and 72.1%, respectively); TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1, 10 and 100 μ mol/L, InRt = 3.1%, 65.0% and 74.1%, respectively). **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**80 Acanthoidine**

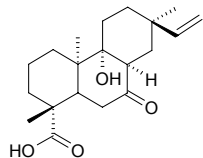
$C_{16}H_{26}N_4O_2$ (306.41). **Pharm:** Antihypertensive. **Source:** JIE MAO FEI LIAN *Carduus acanthoides*, FEI LIAN *Carduus crispus*. **Ref:** 6, 658.

**81 Acanthoine**

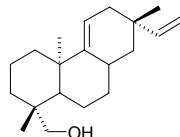
$C_{16}H_{22}N_4O_2$ (302.38). **Source:** FEI LIAN *Carduus crispus*. **Ref:** 6.

**82 Acanthokoreoic acid A**

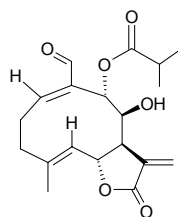
$C_{20}H_{30}O_4$ (334.46). White powder, mp 60~62°C, $[\alpha]_D^{20} = +3.5^\circ$ ($c = 1.0$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1, 10 and 100 μ mol/L, InRt = 12.7%, 18.6% and 3.9%, respectively)^[4346]; TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1, 10 and 100 μ mol/L, InRt = 0.6%, 2.1% and 9.2%, respectively)^[4346]. **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**83 Acanthol**

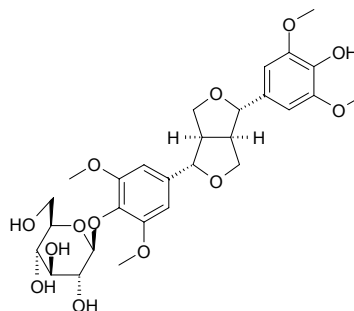
$C_{20}H_{32}O$ (288.48). White powder, mp 73~74°C, $[\alpha]_D^{20} = -14.9^\circ$ ($c = 0.2$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1 μ mol/L, 10 μ mol/L and 100 μ mol/L, InRt = 0.4%, 0.6% and 1.1%, respectively); TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1 μ mol/L, 10 μ mol/L and 100 μ mol/L, InRt = 0.9%, 12.1% and 18.2%, respectively). **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**84 Acantholide**

[72548-16-4] $C_{19}H_{24}O_6$ (348.40). Colorless acicular crystals, mp 208°C. **Pharm:** Cytotoxic (KB *in vitro*, ED₅₀ = 2.2 μ g/mL). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

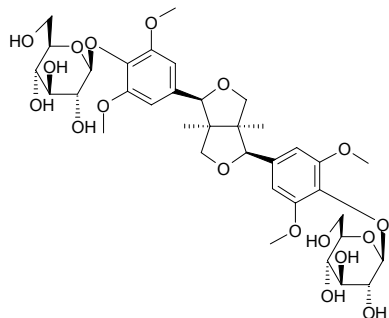
**85 Acanthoside B**

Syringaresinol-4'-*O*- β -*D*-glucopyranoside; (+)-Syringaresinol *O*- β -*D*-glucopyranoside [7374-79-0] $C_{28}H_{36}O_{13}$ (580.59). Amorphous powder, mp 150°C, $[\alpha]_D^{26} = -23.8^\circ$ ($c = 0.08$, MeOH). **Pharm:** Immunomodulator; aldose reductase inhibitor (IC₅₀ > 100 μ mol/L, 100 μ mol/L InRt = 38%, control Epalrestat, IC₅₀ = 0.072 μ mol/L). **Source:** DU ZHONG *Eucommia ulmoides*, HOU PO *Magnolia officinalis*, HUANG HUA REN *Sida acuta*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0011%dw), JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*, LAN SHAI PIAO *Sambucus sieboldiana* (leaf), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole plant), WU GENG WU JIA PI *Acanthopanax sessiliflorus*, XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.002%dw^[4717]), XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). **Ref:** 2, 6, 540, 658, 660, 3846, 4184, 4192, 4530, 4717, 4799.

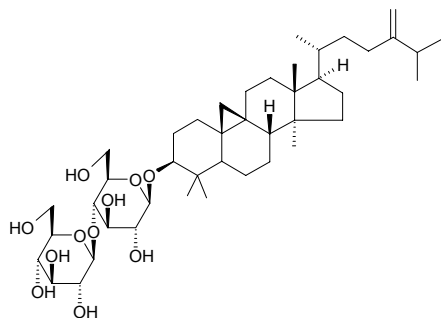


86 Acanthoside D

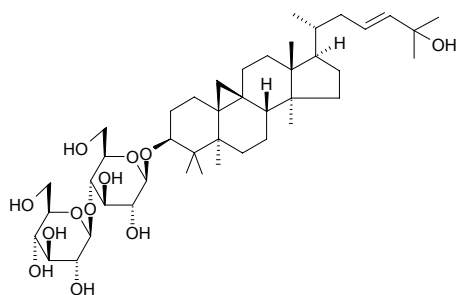
Eleutheroside E [96038-87-8] $C_{34}H_{46}O_{18}$ (742.73). Colorless acicular crystals (dil. methanol), mp 245–247°C, $[\alpha]_D = -33^\circ$; mp 235°C, $[\alpha]_D = 0^\circ$ ($c = 5.0$, 50% methanol); mp 265–272°C, $[\alpha]_D^{20} = -5^\circ$ ($c = 0.5$, methanol). **Pharm:** Sedative; anti-stress; prevents atrophy of prostate and spermary. **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus*. **Ref:** 6, 235, 658, 660, 661.

**87 Acanthoside K₂**

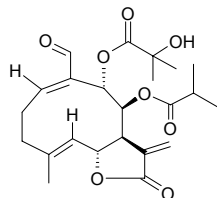
$C_{43}H_{72}O_{11}$ (765.05). **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus* (root). **Ref:** 660.

**88 Acanthoside K₃**

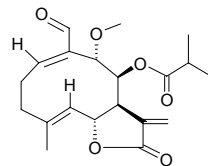
$C_{42}H_{70}O_{12}$ (767.02). **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus* (root). **Ref:** 660.

**89 Acanthospermal A**

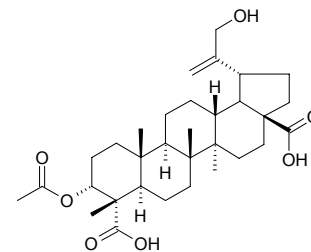
[56689-33-9] $C_{23}H_{30}O_8$ (434.49). **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 211\mu\text{g/mL}$). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

**90 Acanthospermolide**

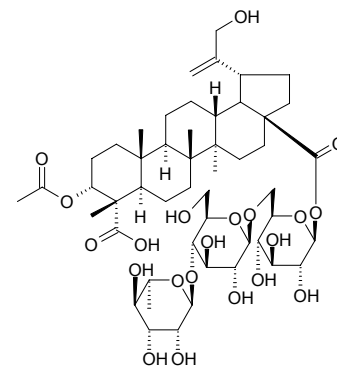
[75744-64-8] $C_{20}H_{26}O_6$ (362.43). mp 154°C. **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 0.54\mu\text{g/mL}$, P_{388} *in vivo*, $ED_{50} = 12.5\text{mg/kg}$). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

**91 Acantrifoside A**

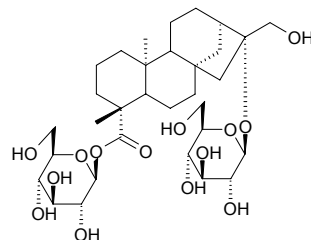
3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid $C_{32}H_{48}O_7$ (544.74). White crystals, mp 278–279°C, $[\alpha]_D^{25} = -12.9^\circ$ ($c = 0.51$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (leaf). **Ref:** 4412.

**92 Acantrifoside C**

3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester $C_{50}H_{77}O_{21}$ (1015.17). White powder, mp 217–218°C, $[\alpha]_D^{25} = -19.5^\circ$ ($c = 0.51$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (leaf). **Ref:** 4412.

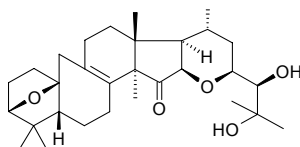
**93 Acantrifoside D**

16 α ,17-Dihydroxy-*ent*-kauran-19-oic acid 16-*O*- β -D-glucopyranoside 19-*O*- β -D-glucopyranosyl ester $C_{32}H_{52}O_{14}$ (660.76). White powder, mp 167–170°C, $[\alpha]_D^{25} = -45^\circ$ ($c = 0.50$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (stem bark). **Ref:** 4957.

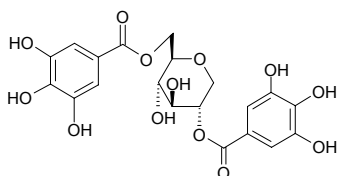


94 Acerionol

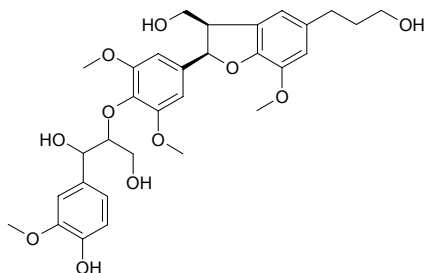
[59665-59-7] C₃₀H₄₆O₅ (486.70). mp 248~249.5°C. Source: SAN MIAN DAO *Cimicifuga acerina*. Ref: 1521.

**95 Aceritannin**

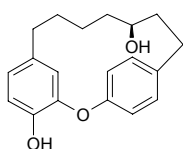
[76746-56-0] C₂₀H₂₀O₁₃ (468.37). Source: CHA TIAO QI *Acer ginnala*. Ref: 1521.

**96 Acernikol**

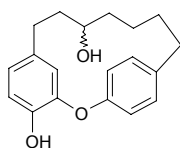
C₃₁H₃₈O₁₁ (586.64). White powder, [α]_D²² = +4.7° (c = 0.20, EtOH). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0020%). Ref: 4304.

**97 Acerogenin A**

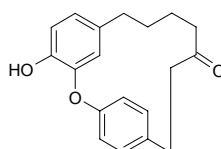
C₁₉H₂₂O₃ (298.39). Pharm: β-Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-Hexosaminidase, 100μmol/L, InRt = (40.0±1.1)%, p<0.01). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**98 Acerogenin B**

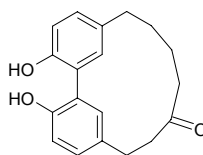
C₁₉H₂₂O₃ (298.39). Pharm: β-Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-hexosaminidase, IC₅₀ = 50μmol/L, control antiallergic Tranilast, IC₅₀ = 490μmol/L, Ketotifen fumarate, IC₅₀ = 220μmol/L). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**99 Acerogenin C**

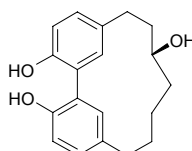
C₁₉H₂₀O₃ (296.37). Pharm: Antibacterial (disk susceptibility tests, standard NCCLS method, 50μg/disk (control 30μg/disk), gram-positive bacteria: *Staphylococcus aureus*, 9mm/diameter, positive control Kanamycin, 10mm/diameter; *Bacillus subtilis*, 9mm/diameter, positive control Kanamycin, 18mm/diameter; *Bacillus sphaericus*, 8mm/diameter, positive control Kanamycin, 20mm/diameter; gram-negative bacteria: *Chromobacterium violaceum*, 9mm/diameter, positive control Kanamycin, 17mm/diameter; *Klebsiella aerogenes*, 10mm/diameter, positive control Kanamycin, 15mm/diameter; *Pseudomonas aeruginosa*, 9mm/diameter, positive control Kanamycin, 27mm/diameter; *Pseudomonas fluorescens*, 7mm/diameter, positive control Kanamycin, 15mm/diameter). Source: TUO YUAN YE RU XIANG SHU *Boswellia ovalifoliolata* (stem). Ref: 4380.

**100 Acerogenin E**

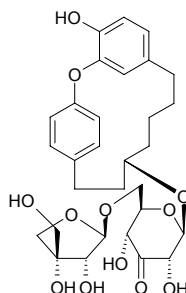
C₁₉H₂₀O₃ (296.37). Pharm: β-Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-Hexosaminidase, 100μmol/L, InRt = (47.9±1.1)%, p<0.01). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**101 Acerogenin K**

C₁₉H₂₂O₃ (298.39). Pharm: β-Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-hexosaminidase, IC₅₀ = 33μmol/L, control antiallergic Tranilast, IC₅₀ = 490μmol/L, Ketotifen fumarate, IC₅₀ = 220μmol/L). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

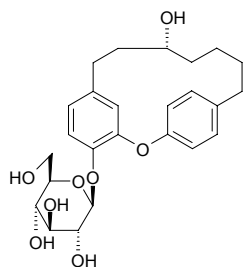
**102 Aceroketoside**

C₃₀H₃₈O₁₂ (590.63). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

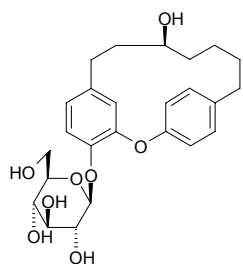


103 Aceroside B₁

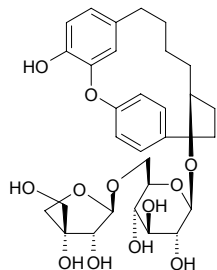
$C_{25}H_{32}O_8$ (460.53). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**104 Aceroside B₂**

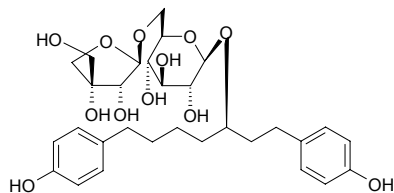
$C_{25}H_{32}O_8$ (460.53). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**105 Aceroside III**

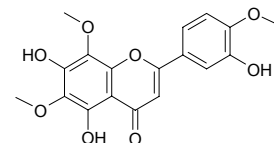
$C_{30}H_{40}O_{12}$ (592.65). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0075%). Ref: 4304.

**106 Aceroside VIII**

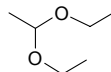
$C_{30}H_{42}O_{12}$ (594.66). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0038%). Ref: 4304.

**107 Acerosin**

$C_{18}H_{16}O_8$ (360.32). Pharm: Spermaticidal (causes breakdown of dog sperm during last period of formation). Source: LIN DI XIANG RI KUI *Helianthus strumosus*, HUANG JING YE *Vitex negundo*, *Gardenia* sp. Ref: 658.

**108 Acetal**

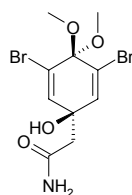
1,1-Diethoxyethane [105-57-7] $C_6H_{14}O_2$ (118.18). bp 103.2°C/761mmHg. Source: CU vinegar. Ref: 6.

**109 Acetamide**

Acetic acid amide [60-35-5] C_2H_5NO (59.07). mp 82~83°C. Source: XIANG XUN *Lentinus edodes*. Ref: 6.

**110 Acetamide-3,5-dibromo-1-hydroxy-4,4-dimethoxy-2,5-cyclohexadiene**

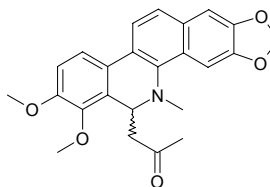
$C_{10}H_{13}Br_2NO_4$ (371.03). White granular crystals, mp 191~192°C. Source: *Pseudoceratina purpurea* (from the South China Sea). Ref: 4888.

**111 Acetoin**

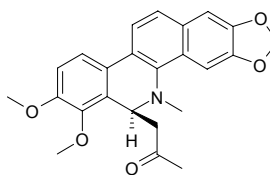
3-Hydroxy-2-butanone [513-86-0] $C_4H_8O_2$ (88.11). mp (±) -72°C, bp (+) 142~144°C, (-) 143°C, (±) 148°C. Source: CU vinegar. Ref: 6.

**112 (±)-6-Acetyldihydrochelerythrine**

$C_{24}H_{23}NO_5$ (405.45). Colorless prisms, mp 194~197°C, $[\alpha]_D^{24} = 0^\circ$ ($c = 2.14$, $CHCl_3$). Pharm: Anti-HIV (H9 lymphocytes, $EC_{50} = 1.77\mu g/mL$, TI (Therapeutic Index) = 14.6; control AZT, $IC_{50} = 500\mu g/mL$, $EC_{50} = 0.0317\mu g/mL$, TI = 15,800). Source: JI YING SU *Argemone mexicana*. Ref: 5364.

**113 6-Acetyldihydrochelerythrine**

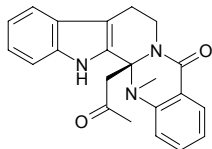
$C_{24}H_{23}NO_5$ (405.45). White needles, mp 192~194°C, $[\alpha]_D^{23} = -135^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Antioxidant (TLC-based assay, DPPH scavenger, MIQ = 10μg; control Quercetin, MIQ = 1μg). Source: *Fagara xanthoxyloides*. Ref: 5385.



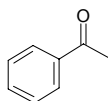
114 Acetonylevodiamine

$C_{22}H_{21}N_3O_2$ (359.43). Colorless rhombus lamellar crystals, mp 163~164°C.

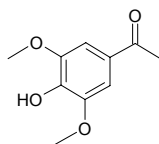
Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2482.

**115 Acetophenone**

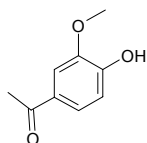
Phenylethanone [98-86-2] C_8H_8O . (120.15). Pharm: Hypnotic. Source: ZHI YANG *Populus balsamifera*, YI ZHU QIAN MA *Urtica dioica*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 658.

**116 Acetosyringone**

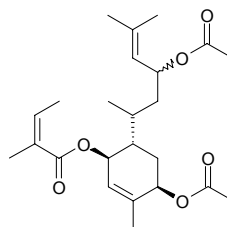
[2478-38-8] $C_{10}H_{12}O_4$ (196.20). Pharm: Causes plant to be infected by *Agrobacterium tumefaciens*. Source: YAN CAO *Nicotiana tabacum*. Ref: 658.

**117 Acetovanillone**

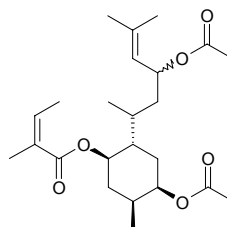
1-(4-Hydroxy-3-methoxyphenyl)-ethanone [498-02-2] $C_9H_{10}O_3$ (166.18). Tiny acicular crystals (water), mp 115°C, bp 295~300°C. Pharm: Choleric (rbt); uterine stimulant (rat); inhibits contraction of heart (frog heart); anti-inflammatory inactive (no significant inhibitory effects on mast cells and neutrophils stimulated with various inducers; no significant inhibitory effects on TNF- α formation from RAW264.7 stimulated with LPS and N9 microglial cells stimulated with LPS/IFN- γ)^[3054]. Source: BAI WEI *Cynanchum atratum* (root)^[3054], DIAN DI MEI YE CHA YE HUA *Apocynum androsaemifolium*, HU HUANG LIAN *Picrorhiza kurroo*, JIA ZHU TAO MA *Apocynum cannabinum*, MIAN HUA GEN *Gossypium herbaceum*, *Iris* sp. Ref: 6, 658, 661, 3054.

**118 (1R*,3S*,4R*,6S*)-9-(Acetoxy)-4-acetoxy-1-[(2Z)-2-methylbut-2-enyloxy]bisabol-2(3),10(11)-diene**

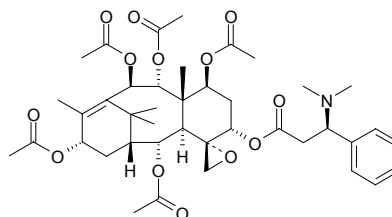
$C_{24}H_{36}O_6$ (420.55). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC_{50} = 10.1 μ mol/L, $p < 0.05$; control Zileuton, IC_{50} = 10.4 μ mol/L, $p < 0.05$)^[5037]; anti-inflammatory (anti-oedema, control oedema = (7.8 \pm 0.3)mg, 100 μ g/cm², oedema = (5.2 \pm 0.4)mg, $p < 0.05$, reduction = 33%, Indomethacin oedema = (3.4 \pm 0.3)mg, $p < 0.05$, reduction = 56%)^[4985]; effect on leukocytes infiltration (control E.A. at 6h = (24.6 \pm 1.6)U/(mL·min), 100 μ g/cm², E.A. at 6h = (22.8 \pm 3.3)U/(mL·min), Reduce = 7%)^[4985]. Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985, 5037.

**119 (1R*,3S*,4R*,6S*)-9-(Acetoxy)-4-acetoxy-1-[(2Z)-2-methylbut-2-enyloxy]bisabol-10(11)-ene**

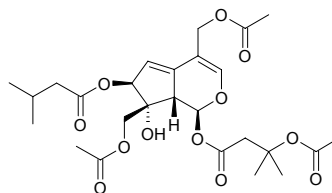
$C_{24}H_{38}O_6$ (422.57). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC_{50} = 7.7 μ mol/L, $p < 0.05$; control Zileuton, IC_{50} = 10.4 μ mol/L, $p < 0.05$)^[5037]; anti-inflammatory (anti-oedema, control oedema = (7.8 \pm 0.3)mg, 100 μ g/cm², oedema = (4.2 \pm 0.4)mg, $p < 0.05$, reduction = 46%, Indomethacin oedema = (3.4 \pm 0.3)mg, $p < 0.05$, reduction = 56%)^[4985]; effect on leukocytes infiltration (control E.A. at 6h = (24.6 \pm 1.6)U/(mL·min), 100 μ g/cm², E.A. at 6h = (19.4 \pm 0.6)U/(mL·min), Reduce = 25%, $p < 0.05$)^[4985]. Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985, 5037.

**120 7 β -Acetoxy-9-acetylspicataxine**

$C_{41}H_{55}NO_{13}$ (769.89). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

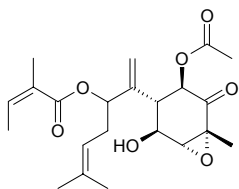
**121 10-Acetoxy-1-acevaltrate hydrin**

$C_{26}H_{36}O_{12}$ (540.57). Oil, $[\alpha]_D^{24}$ = +194.6° (c = 0.01, MeOH). Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (rhizome and root; yield = 0.000007%dw)^[4672]. Ref: 4672.



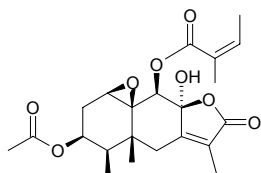
122 (1R,3R,4R,5S,6S)-1-Acetoxy-8-angeloyloxy-3,4-epoxy-5-hydroxy-bisabola-7(14),10-dien-2-one

$C_{22}H_{30}O_7$ (406.48). Colorless oil, $[\alpha]_D^{23} = -32.0^\circ$ ($c = 0.4$, $CHCl_3$). Source: KUAN DONG HUA *Tussilago farfara* (flower bud). Ref: 3531.



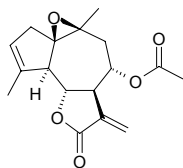
123 3β-Acetoxy-9β-angeloyloxy-1β,10β-epoxy-8α-hydroxyeremophil-7(11)-en-8β(12)-olide

$C_{22}H_{28}O_8$ (420.46). White columns (MeOH), mp 212~214°C, $[\alpha]_D^{25} = -71^\circ$ ($c = 0.41$, acetone). Pharm: Antibacterial (Bacillus subtilis, 100μg/mL, IZD = 13~15mm, moderate, control Chloromycetin, IZD = 16~20mm; Escherichia coli, 100μg/mL, IZD = 13~15mm, Chloromycetin, IZD = 16~20mm). Source: JIA TUO WU *Ligulariopsis shichuana* (whole herb: yield = 0.0030%dw). Ref: 4627.



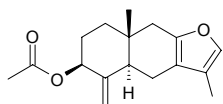
124 8α-Acetoxyarglabin

$C_{17}H_{20}O_5$ (304.35). Source: YI KUA *Artemisia myriantha* (aerial parts). Ref: 4618.



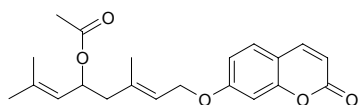
125 3β-Acetoxy-atractylon

$C_{17}H_{22}O_3$ (274.36). Source: CANG ZHU *Atractylodes lancea*. Ref: 2.



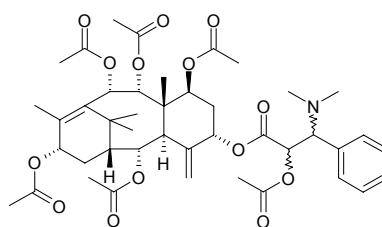
126 Acetoxyauraptene

$C_{21}H_{24}O_5$ (356.42). Pharm: Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. Source: *Zanthoxylum* sp. Ref: 2176.



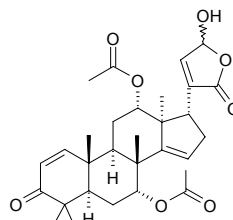
127 2α-Acetoxyaustrospicatine

[119777-81-0] $C_{43}H_{57}NO_{14}$ (811.93). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.



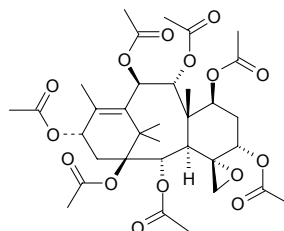
128 12α-Acetoxyazadironolide

$C_{30}H_{38}O_8$ (526.63). White crystalline, mp 97~99°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.



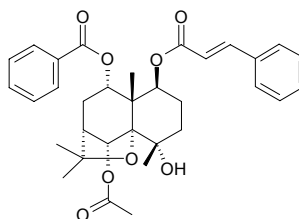
129 1-Acetoxy-baccatin I

$C_{34}H_{46}O_{15}$ (694.74). Colorless quadratus crystal. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 2166.



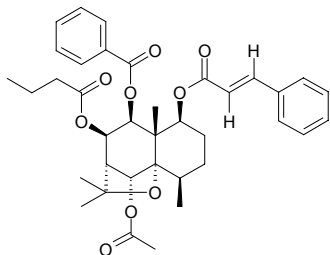
130 5α-Acetoxy-1β-benzoyl-8α-cinnamoyl-4α-hydroxy-dihydroagarofuran

$C_{33}H_{38}O_8$ (562.67). Amorphous powder, $[\alpha]_D^{25} = +109.4^\circ$ ($c = 1.3$, MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.



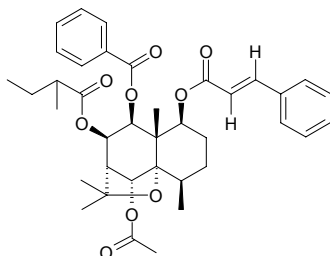
131 6 α -Acetoxy-9 β -benzoyloxy-1 β -cinnamoyloxy-8 β -butanoyloxy- β -dihydroagarofuran

C₃₇H₄₄O₉ (632.76). White powder (EtOAc), mp 181~183°C, [α]_D²⁰ = -7.0° (c = 0.75, MeOH). **Pharm:** NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). **Source:** NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2584.



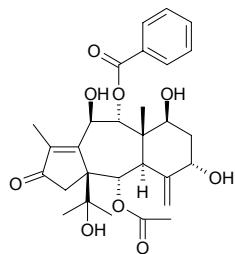
132 6 α -Acetoxy-9 β -benzoyloxy-1 β -cinnamoyloxy-8 β -(2-methylbutanoyloxy)- β -dihydroagarofuran

C₃₈H₄₆O₉ (646.78). White powder (EtOAc), mp 231~233°C, [α]_D²⁰ = -8.9° (c = 0.40, MeOH). **Pharm:** NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). **Source:** NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2584.



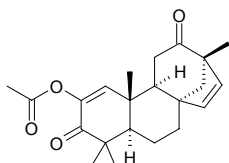
133 2 α -Acetoxy-9 α -benzoyloxy-5 α ,7 β ,10 β ,15-tetrahydroxy-11(15→1)-abeotaxa-4(20),11-dien-13-one

C₂₉H₃₆O₉ (528.60). Colorless amorphous solid, [α]_D²⁵ = +31.6° (c = 0.32, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.



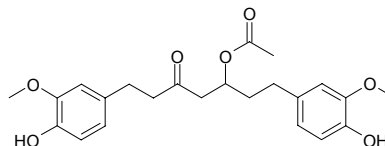
134 2-Acetoxy-1,15-beyeradiene-3,12-dione

C₂₂H₂₈O₄ (356.47). Colorless needles (MeOH), mp 136~138°C, [α]_D²⁵ = -294.2° (c = 2.1, CHCl₃). **Source:** HAI QI *Excoecaria agallocha* (root: yield = 0.0015%dw). **Ref:** 4613.



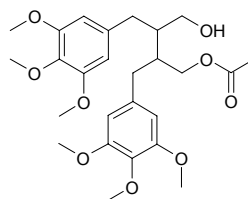
135 (5S)-5-Acetoxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptan-3-one

C₂₃H₂₈O₇ (416.48). Colorless oil, [α]_D²⁴ = +3.0° (c = 0.60, CHCl₃). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3803.



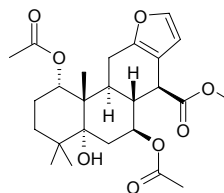
136 4-Acetoxy-2,3-bis(3,4,5-trimethoxybenzyl)-1-butanol

C₂₆H₃₆O₉ (492.57). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.



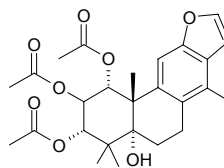
137 7-Acetoxybonducellpin C

C₂₅H₃₄O₈ (462.54). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel). **Ref:** 4434.



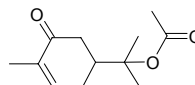
138 2-Acetoxycaesaldekarin E

C₂₆H₃₂O₈ (472.54). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel). **Ref:** 4434.



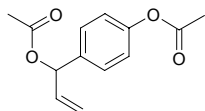
139 D-8-Acetoxy-carvotanacetone

C₁₂H₁₈O₃ (210.28). mp 45.3~46.2°C, [α]_D²⁰ = +32.2° (c = 10, CHCl₃). **Pharm:** Anthelmintic (with anaphylactic action to skin). **Source:** BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*]. **Ref:** 1, 660.

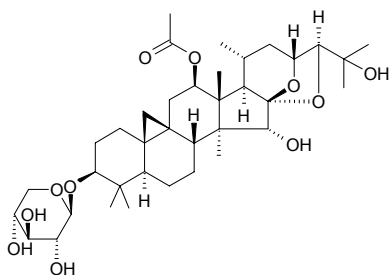


140 1'-Acetoxychavicol acetate

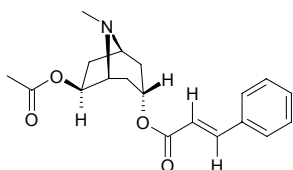
[108147-21-3] C₁₃H₁₄O₄ (234.25). [α]_D²⁰ = -80° (c = 1, alcohol). **Pharm:** Antineoplastic (S₁₈₀, 10mg/(kg·d), growth rate = 1%); antifungal; antiulcerative (rat, ip, gastric ulcer, 2mg/kg, InRt = 20%, 5mg/kg, InRt = 77%); toxin. **Source:** DA LIANG JIANG *Alpinia galanga*. **Ref:** 1, 995, 1134.

**141 12β-Acetoxycimigenol-3-O-β-D-xylopyranoside**

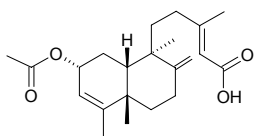
C₃₇H₅₈O₁₁ (678.87). White powder, mp 185~187°C, [α]_D²⁴ = -41° (c = 0.55, MeOH:CHCl₃ = 1:1). **Source:** SHENG MA *Cimicifuga foetida* (rhizome). **Ref:** 4573.

**142 trans-6β-Acetoxy-3α-(cinnamoyloxy)tropane**

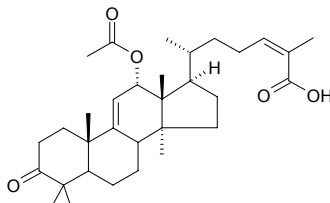
C₁₉H₂₃NO₄ (329.40). **Source:** XI LAN GU KE *Erythroxylum zeylanicum* (twig and leaf). **Ref:** 3919.

**143 2-α-Acetoxy-cis-cleroda-3,13(Z),8(17)-trien-15-oic acid**

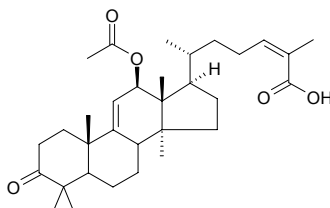
C₂₂H₃₂O₄ (360.50). Colorless oil, [α]_D²⁵ = -32.5° (c = 0.6, CHCl₃). **Pharm:** Antibacterial (*Bacillus cereus*, MIC = 1.25μg, control Tetracyclin, MIC = 0.25μg; *Bacillus coagulans*, MIC = 2.5μg, Tetracyclin, MIC = 0.25μg; *Bacillus subtilis*, MIC = 1.25μg, Tetracyclin, MIC = 0.25μg; *Micrococcus luteus*, MIC = 1.25μg, Tetracyclin, MIC = 0.25μg; *Staphylococcus aureus*, MIC = 1.25μg, Tetracyclin, MIC = 5.0μg). **Source:** *Haplopappus foliosus*. **Ref:** 5419.

**144 12α-Acetoxycoocinic acid**

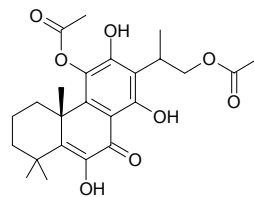
C₃₂H₄₈O₅ (512.74). **Pharm:** Antineoplastic^[2523], anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436, 2523.

**145 12β-Acetoxycoocinic acid**

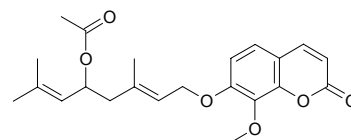
C₃₂H₄₈O₅ (512.74). **Pharm:** Antineoplastic^[2523], anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436, 2523.

**146 16-Acetoxycoleon U 11-acetate**

11,16-Diacetoxy-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one C₂₄H₃₀O₈ (446.5). Yellow amorphous powder, [α]_D^{25,9} = +32.3° (c = 0.87, CHCl₃). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00023%dw). **Ref:** 4625.

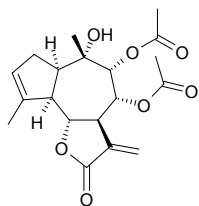
**147 (-)-Acetoxycollinin**

[148777-25-7] C₂₂H₂₆O₆ (386.45). **Pharm:** Platelet aggregation inhibitor. **Source:** QING JIAO Zhanthoxylum *schinifolium*, QUAN YUAN YE HUA *Zanthoxylum integrifoliolum*. **Ref:** 1521, 2176.

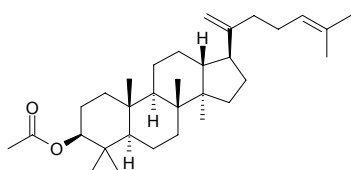


148 9 α -Acetoxycumambrin A

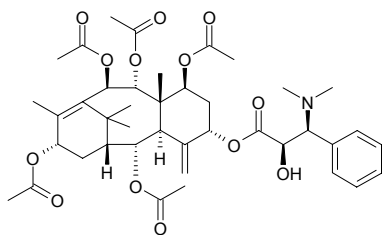
C₁₉H₂₄O₇ (364.40). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**149 3 β -Acetoxy-dammara-20,24-diene**

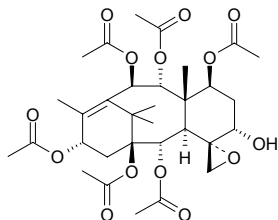
Dammardenyl acetate C₃₂H₅₂O₂ (468.77). Glassy amorphous solid, mp 148~149°C, [α]_D²⁰ = +11°C (c = 0.08, CHCl₃). Source: PEI LAN *Eupatorium fortunei*, TU MU XIANG *Inula helenium*, XIAO SHE JU GEN *Microglossa pyrifolia*, *Santolina oblongifolia*. Ref: 6, 5374.

**150 2 α -Acetoxy-2' β -deacetylaustrospicatine**

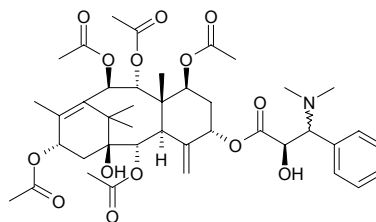
[119777-82-1] C₄₁H₅₅NO₁₃ (769.89). Pharm: Cytotoxic (A549, ED₅₀ = (28.3±3.8) μmol/L)^[5225]. Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (needle). Ref: 662, 5225.

**151 1 β -Acetoxy-5 α -deacetyl-baccatin I**

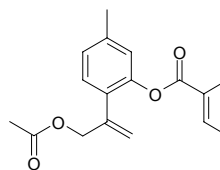
C₃₂H₄₄O₁₄ (652.70). mp 240~241°C. Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**152 2 α -Acetoxy-2'-deacetyl-1-hydroxyaustrospicatine**

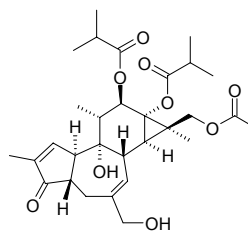
C₄₁H₅₅NO₁₄ (785.89). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**153 9-Acetoxy-8,10-dehydrothymol 3-O-tiglate**

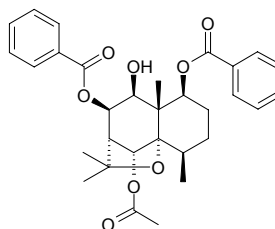
C₁₇H₂₀O₄ (288.35). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**154 17-Acetoxy-4-deoxyphorbol 12,13-bis(isobutyrate)**

[250258-03-8] C₃₀H₄₂O₉ (546.66). Oil, [α]_D = +70° (c = 1.2, CHCl₃). Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365.

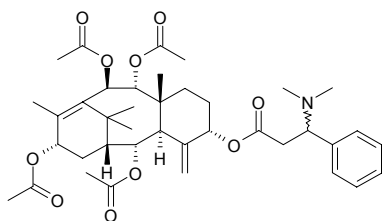
**155 6 α -Acetoxy-1 β ,8 β -dibenzyloxy-9 β -hydroxy- β -dihydroagarofuran**

C₃₁H₃₆O₈ (536.63). White powder (EtOAc), mp 217~219°C, [α]_D = -286° (c = 0.70, MeOH). Pharm: NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity)^[2584]. Source: NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2584.

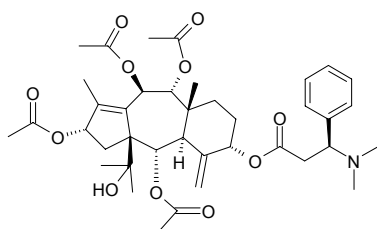


156 2 α -Acetoxy-2',7-dideacetoxy austrospicatine

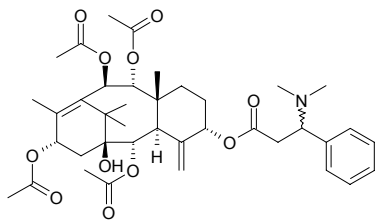
C₃₉H₅₃NO₁₀ (695.86). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**157 (-)-2 α -Acetoxy-2',7-dideacetoxy-1-hydroxy-11(15→1)-abeoaustrospicatine**

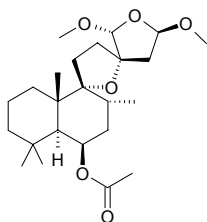
C₃₉H₅₃NO₁₁ (711.86). [α]_D = -46° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**158 (+)-2 α -Acetoxy-2',7-dideacetoxy-1-hydroxyaustrospicatine**

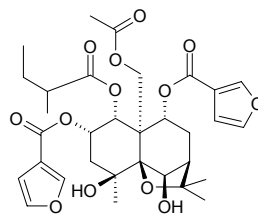
C₃₉H₅₃NO₁₁ (711.86). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**159 (rel-5S,6R,8R,9R,10S,13S,15R,16R)-6-Acetoxy-9,13;15,16-diepoxy-15,16-dimethoxylabdane**

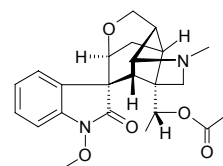
C₂₄H₄₀O₆ (424.58). Pharm: Cytotoxic (*in vitro*, PC12, GI₅₀ > 5 μg/mL, control Cisplatin, GI₅₀ = 0.111 μg/mL; HCT116, GI₅₀ > 5 μg/mL, Cisplatin, GI₅₀ = 0.794 μg/mL)^[4623]. Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*]. Ref: 4623.

**160 15-Acetoxy-2 α ,9 β -di-(β -furancarboxyloxy)-4 β ,6 β -dihydroxy-1 α -(2-methylbutanoyloxy)-dihydro- β -agarofuran**

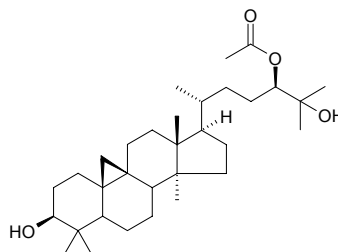
C₃₂H₄₀O₁₃ (632.67). Colorless oil, [α]_D²³ = +39.7° (*c* = 0.39, CHCl₃). Source: OU ZHOU WEI MAO *Euonymus europaeus* (seed). Ref: 4162.

**161 19-(R)-Acetoxydihydrogelsevirine**

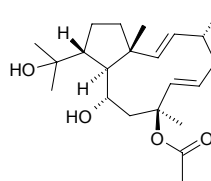
C₂₃H₂₈N₂O₅ (412.49). mp 186–189°C, [α]_D = -6.7°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**162 24R-Acetoxy-3 β ,25-dihydroxycycloartane**

C₃₂H₅₄O₄ (502.78). Crystals (CHCl₃-hexane), mp 160°C. Source: MA LA BA JIAN MU *Dysoxylum malabaricum* (leaf). Ref: 5130.

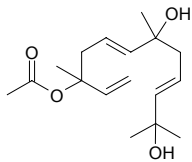
**163 10-Acetoxy-8,18-dihydroxy-2,6-dolabelladiene**

C₂₂H₃₆O₄ (364.53). Colorless oil, [α]_D²⁰ = -60° (*c* = 0.5, CHCl₃). Pharm: Anti-HSV-1 (Vero cells infected by HSV-1, 50 μmol/L, (87±4)% of cytopathic effect inhibition of herpes virus); cytotoxic inactive (200 μmol/L); HIV-1 RT inhibitor (40 μmol/L, InRt = 20%, positive control AZT: 0.01 μmol/L, InRt = 85%). Source: BA XI ZONG ZAO *Dictyota paffii*. Ref: 5023.

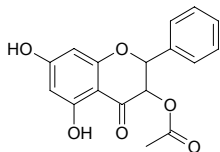


164 3-Acetoxy-7,11-dihydroxy-farnesa-1,5,9-triene

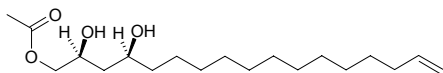
$C_{17}H_{28}O_4$ (296.41). $[\alpha]_D^{20} = +5^\circ$ ($c = 0.24$, $CHCl_3$). Source: *Gackstroemia decipiens*. Ref: 3907.

**165 trans-3-Acetoxy-5,7-dihydroxyflavanone**

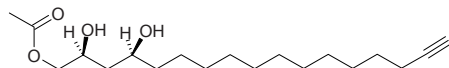
$C_{17}H_{14}O_6$ (314.30). Colorless columnar crystals, mp 264~266°C. Source: SHAN YANG *Populus davidiana*. Ref: 2212.

**166 1-Acetoxy-2,4-dihydroxy-N-heptadeca-16-ene**

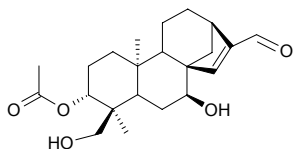
$C_{19}H_{36}O_4$ (328.50). $[\alpha]_D^{22} = -2.5^\circ$ ($c = 0.89$, $CHCl_3$). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**167 1-Acetoxy-2,4-dihydroxy-N-heptadeca-16-yne**

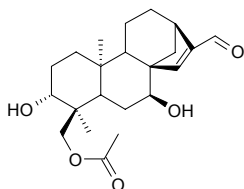
$C_{19}H_{34}O_4$ (326.48). $[\alpha]_D^{22} = -2.7^\circ$ ($c = 0.24$, $CHCl_3$). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**168 ent-3β-Acetoxy-7α,18-dihydroxykaur-15-en-17-al**

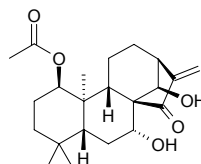
$C_{22}H_{32}O_5$ (376.50). Syrup, $[\alpha]_D = -8.2^\circ$ ($c = 0.5$, $CHCl_3$). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**169 ent-18-Acetoxy-3β,7α-dihydroxykaur-15-en-17-al**

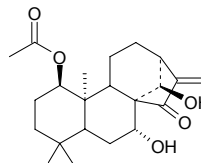
$C_{22}H_{32}O_5$ (376.50). Syrup, $[\alpha]_D = -13.6^\circ$ ($c = 1$, $CHCl_3$). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**170 ent-1α-Acetoxy-7β,14α-dihydroxykaur-16-en-15-one**

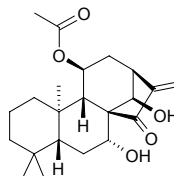
$C_{22}H_{32}O_5$ (376.50). White needles (acetone), mp 97~98°C, $[\alpha]_D^{20} = -96.0^\circ$ ($c = 0.80$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4342.

**171 1β-Acetoxy-7α,14β-dihydroxykaur-16-en-15-one**

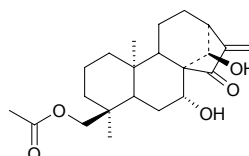
$C_{22}H_{32}O_5$ (376.5). White amorphous powder, mp 110~111°C, $[\alpha]_D^{18} = -36.7^\circ$ ($c = 1.1$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits LPS-induced NF-κB activation in murine macrophage RAW264.7 cells, $IC_{50} = 0.42\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.34\mu\text{mol/L}$; NO production inhibitor ($IC_{50} = 0.47\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.01\mu\text{mol/L}$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf; yield = 0.00062%dw). Ref: 4724.

**172 ent-11α-Acetoxy-7β,14α-dihydroxykaur-16-en-15-one**

$C_{22}H_{32}O_5$ (376.50). Oil, $[\alpha]_D^{19} = +21.3^\circ$ ($c = 0.41$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf), JIE XING YE TAI *Jungermannia truncata*. Ref: 4201, 4444.

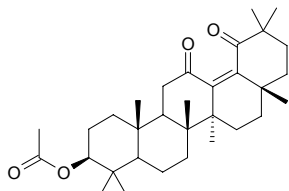
**173 18-Acetoxy-7α,14β-dihydroxykaur-16-en-15-one**

$C_{22}H_{32}O_5$ (376.50). White amorphous powder, mp 173~175°C, $[\alpha]_D^{18} = -20^\circ$ ($c = 0.6$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits LPS-induced NF-κB activation in murine macrophage RAW264.7 cells, $IC_{50} = 0.07\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.34\mu\text{mol/L}$; NO production inhibitor ($IC_{50} = 0.15\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.01\mu\text{mol/L}$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf; yield = 0.0014%dw). Ref: 4724.

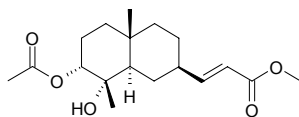


174 3 β -Acetoxy-12,19-dioxo-13(18)-oleanene

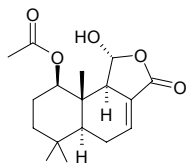
C₃₂H₄₈O₄ (496.74). Colorless solid, mp 244–247°C, [α]_D²⁴ = -94.9° (*c* = 1.0, CHCl₃). **Pharm:** Cytotoxic inactive (HONE-1 cell, IC₅₀ > 10 μ mol/L; KB cell, IC₅₀ > 10 μ mol/L; HT29 cell, IC₅₀ > 10 μ mol/L). **Source:** RONG SHU *Ficus microcarpa* (aerial root). **Ref:** 5254.

**175 3 α -Acetoxydiversifolol**

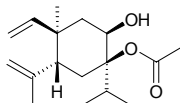
3 α -Acetoxy-4 α -hydroxy-4 β ,10 β -dimethyl-7 β -(methyl-1*E*-propenoate)-*trans*-decalin C₁₈H₂₈O₅ (324.42). Colorless gel, [α]_D²⁵ = -71.8° (*c* = 0.071, MeOH). **Pharm:** Cytotoxic (antiproliferative, Col2 cells, IC₅₀ > 20 μ g/mL); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μ g/mL, activity denotes percentage of cells differentiated < 10%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, not tested). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.00056%dw). **Ref:** 4622.

**176 1 β -Acetoxy-7-drimen-11 α -ol-12,11-lactone**

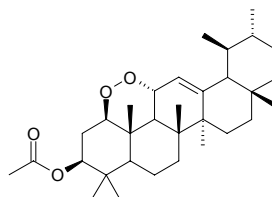
C₁₇H₂₄O₅ (308.38). Colorless amorphous solid, [α]_D²⁵ = -46.4° (*c* = 0.65, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.

**177 7-Acetoxy-elema-1,3-dien-8-ol**

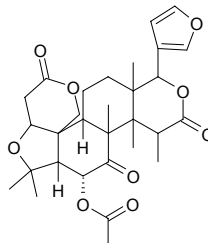
(+)-(1*R*,2*R*,4*R*,5*R*)-4-Ethenyl-2-hydroxy-4-methyl-5-(1-methylethenyl)-1-(1-methylethyl)-cyclohexylacetate C₁₇H₂₈O₃ (280.41). Colorless oil. **Source:** YING ZHI YE TAI *Lepidozia vitrea* (essential oil). **Ref:** 5209.

**178 3 β -Acetoxy-1 β ,11 α -epidioxy-12-ursene**

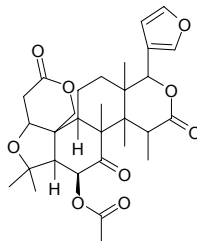
C₃₂H₅₀O₄ (498.75). Colorless solid (CH₂Cl₂), mp 250–253°C, [α]_D²⁹ = +29.4° (*c* = 0.9, CHCl₃). **Source:** RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000072%dw). **Ref:** 3047.

**179 6 α -Acetoxy-5-epilimonin**

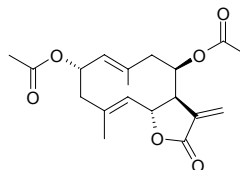
C₃₀H₃₈O₉ (542.63). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 877.

**180 6 β -Acetoxy-5-epilimonin**

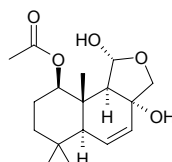
C₃₀H₃₈O₉ (542.63). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 877.

**181 2 α -Acetoxyepitulipinolide**

C₁₉H₂₄O₆ (348.40). Oil, [α]_D²⁰ = +70.4° (*c* = 0.27, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

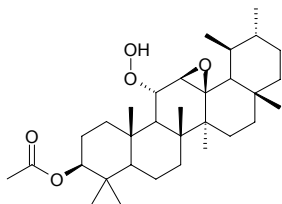
**182 1 β -Acetoxy-11,12-epoxy-6-drimen-8 α ,11 α -diol**

C₁₇H₂₆O₅ (310.39). Colorless amorphous solid, [α]_D²⁵ = -16.4° (*c* = 0.32, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.

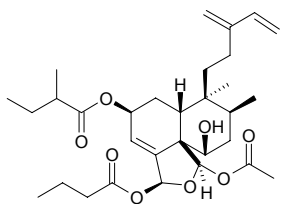


183 3 β -Acetoxy-12 β ,13 β -epoxy-11 α -hydroperoxyursane

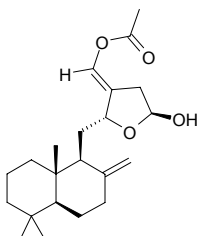
C₃₂H₅₂O₅ (516.77). Colorless solid (CH₂Cl₂), mp 187~193°C, [α]_D²⁵ = +14.4° (c = 0.2, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root): yield = 0.000044%dw). Ref: 3047.

**184 rel-(2S,5R,6R,8S,9S,10R,18S,19R)-19-Acetoxy-18,19-epoxy-6-hydroxy-18-butanoyloxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene**

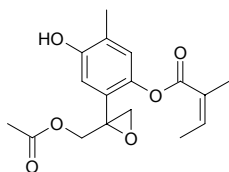
C₃₁H₄₆O₈ (546.71). Colorless viscous liquid, [α]_D²⁰ = +26° (c = 0.135, CH₂Cl₂). Pharm: Antitrypanosomal (Flagellate protozoan *Trypanosoma cruzi* causing Chagas' disease, MIC = 0.59 μ g/mL). Source: SHE XING LIN SHENG JIAO GU CUI *Casearia sylvestris* var. *lingua* (root bark). Ref: 4080.

**185 16-Acetoxy-12(R),15-epoxy-15 β -hydroxyabda-8(17),13(16)-diene**

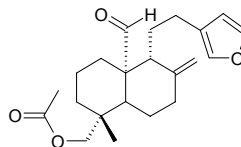
C₂₂H₃₄O₄ (362.51). Yellowish oil, [α]_D²⁰ = +35.0° (c = 1.4, CHCl₃). Source: *Turraanthus africanus* (seed). Ref: 3884.

**186 9-Acetoxy-8,10-epoxy-6-hydroxythymol 3-O-angelate**

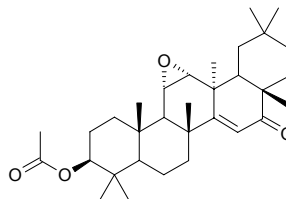
C₁₇H₂₀O₆ (320.35). [α]_D²³ = -8.5° (c = 0.68, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**187 19-Acetoxy-15,16-epoxy-8(17),13(16),14-ent-labdatrien-20-al**

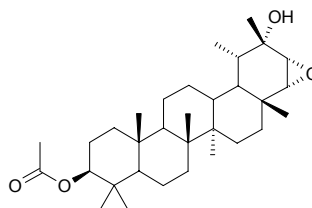
C₂₂H₃₀O₄ (358.48). White amorphous powder, [α]_D²⁵ = -17.1° (c = 0.52, CHCl₃). Pharm: Phytotoxin (*Raphidocelis subcapitata*, IC₅₀ = 58.27 μ mol/L). Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**188 3 β -Acetoxy-11 α ,12 α -epoxy-16-oxo-14-taraxerene**

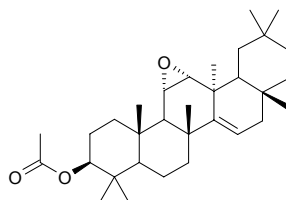
C₃₂H₄₈O₄ (496.74). Colorless solid, mp > 300°C, [α]_D²⁴ = -39.3° (c = 0.2, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**189 3 β -Acetoxy-21 α ,22 α -epoxytaraxastan-20 α -ol**

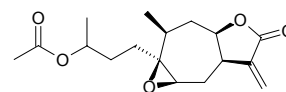
C₃₂H₅₂O₄ (500.77). Colorless solid, mp > 300°C, [α]_D²¹ = +5.6° (c = 0.6, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

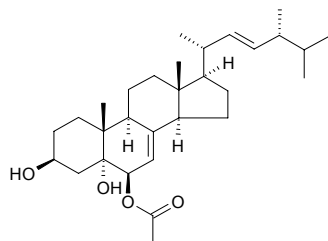
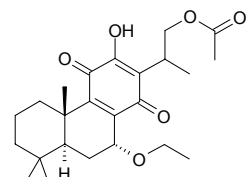
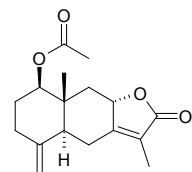
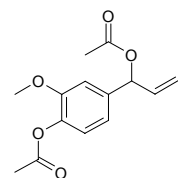
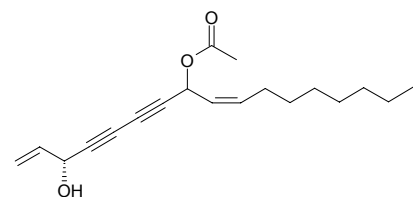
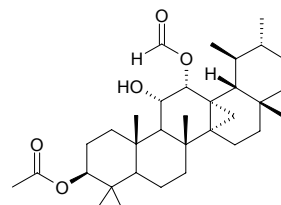
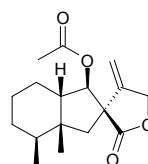
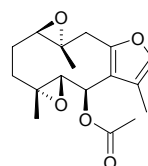
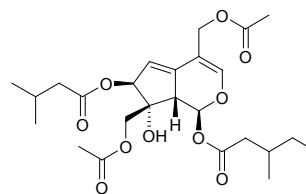
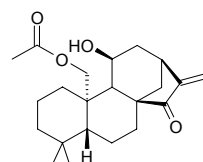
**190 3 β -Acetoxy-11 α ,12 α -epoxy-14-taraxerene**

C₃₂H₅₀O₃ (482.75). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**191 4-Acetoxy-1 β ,5 β -epoxy-10 α H-xantha-11(13)-en-12,8 β -olide**

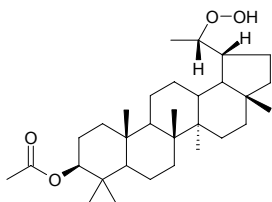
C₁₇H₂₄O₅ (308.38). Colorless gum, [α]_D²⁰ = +26.2° (c = 0.68, CHCl₃). Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial part): yield = 0.0007%dw). Ref: 4736.



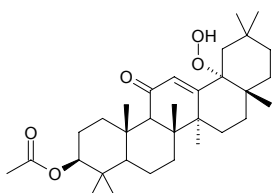
192 6 β -Acetoxy-(22E)-ergosta-7,22-diene-3 β ,5 α -diolC₃₀H₄₈O₄ (472.71). Source: *Pleurotus eryngii*. Ref: 4183.**193 16-Acetoxy-7 α -ethoxyroyleanone**C₂₄H₃₄O₆ (418.53). mp 182~184°C. Source: XI HUANG CAO *Rabdosia serra*. Ref: 4067.**194 1 β -Acetoxyeudesman-4(15),7(11)-dien-8 α ,12-olide**C₁₇H₂₂O₄ (290.36). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 42 μ g/mL). Source: XIAO MEI WEI QIN *Smyrniium olusatrum* (fruit). Ref: 5162.**195 1'-Acetoxyeugenol acetate**[108093-85-2] C₁₄H₁₆O₅ (264.28). Pharm: Antineoplastic (S₁₈₀, 10mg/kg, growth rate = 10.0%); antiulcerative (rat, ip, gastric ulcer, 5mg/kg, InRt = 36%; 10mg/kg, InRt = 100%); low toxin. Source: DA LIANG JIANG *Alpinia galanga*. Ref: 1, 995, 1134.**196 8-Acetoxyfalcarinol**C₁₉H₂₆O₃ (302.42). Source: *Niphogeton ternata*. Ref: 4156.**197 3 β -Acetoxy-12 α -formyloxy-13,27-cycloursan-11 α -ol**C₃₃H₅₂O₅ (528.78). mp 269~273°C, [α]_D²⁵ = +38.0° (c = 0.5, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.**198 9-Acetoxyfukinanolide**[35945-70-1] C₁₇H₂₄O₄ (292.38). mp 96~97°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.**199 6 β -Acetoxyglechomafuran**C₁₇H₂₂O₅ (306.38). Colorless gum. Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.**200 10-Acetoxy-1-homovaltrate hydrin**C₂₅H₃₆O₁₀ (496.56). Oil, [α]_D²⁴ = +197.5° (c = 0.01, MeOH). Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (rhizome and root; yield = 0.000005%dw). Ref: 4672.**201 ent-20-Acetoxy-11 α -hydroxy-16-kauren-15-one**C₂₂H₃₂O₄ (360.50). Oil, [α]_D²⁰ = -94.0° (c = 0.41). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

202 (20S)-3 β -Acetoxy-20-hydroperoxy-30-norlupane

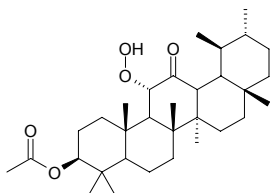
C₃₁H₅₂O₄ (488.76). Colorless solid (CH₂Cl₂), mp 159–162°C, [α]_D²⁹ = +6.8° (*c* = 3.9, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.00025%dw). Ref: 3047.

**203 3 β -Acetoxy-18 α -hydroperoxy-12-oleanen-11-one**

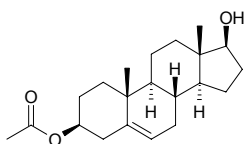
C₃₂H₅₀O₅ (514.75). Colorless solid (CH₂Cl₂), mp 205–207°C, [α]_D²⁵ = +23.7° (*c* = 0.7, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000050%dw). Ref: 3047.

**204 3 β -Acetoxy-11 α -hydroperoxy-13 α H-ursan-12-one**

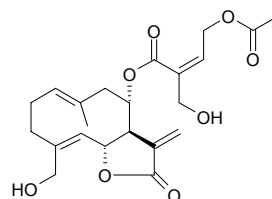
C₃₂H₅₂O₅ (516.77). Amorphous solid, [α]_D²⁵ = +63.9° (*c* = 0.4, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000056%dw). Ref: 3047.

**205 3 β -Acetoxy-17 β -hydroxy-androst-5-ene**

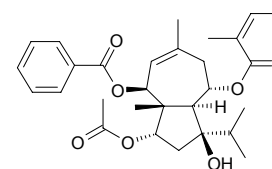
C₂₁H₃₂O₃ (332.49). Pharm: Anti-inflammation (mouse, TPA-induced ear edema, control, difference in ear thickness = (67.0±0.7)/mm³; 1.0mg/ear, difference in ear thickness = (25.0±1.6)/mm³, InRt of inflammation = 67.8%, *p*<0.001; 2.0mg/ear, difference in ear thickness = (13.2±2.6)/mm³, InRt of inflammation = 82.4%, *p*<0.001; control Indomethacin, 0.5mg/ear, difference in ear thickness = (15.0±1.7)/mm³, InRt of inflammation = 79.2%, *p*<0.001; MeOH extract A of *Acacia nilotica* (aerial parts) 5.0mg/ear, difference in ear thickness = (25.0±2.3)/mm³, InRt of inflammation = 68.4%, *p*<0.001). Source: A LA BO JIAO JIN HE HUAN *Acacia nilotica* (aerial parts). Ref: 5375.

**206 8 α -[(4-Acetoxy-5-hydroxy)-angelate]salonitenolide**

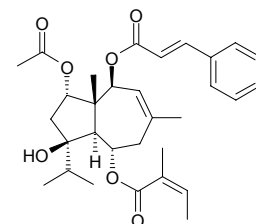
C₂₂H₂₈O₈ (420.46). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.03 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 0.03 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 0.06 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 0.25 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrochloron*, MIC = 0.125 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 0.125 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.125 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). Source: *Centaurea thessala* ssp. *drakiensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

**207 2 α -Acetoxy-4 β -hydroxy-6 α -angeloyloxy-10 β -benzoyloxy-dauc-8-ene**

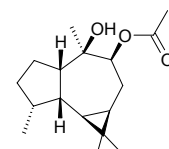
C₂₉H₃₈O₇ (498.62). Amorphous white powder, [α]_D²⁵ = +8.8° (*c* = 0.10, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 1.6mg/mL; *Streptomyces scabies*, MIC = 1.4mg/mL; *Bacillus subtilis*, MIC = 1.2mg/mL; *Bacillus cereus*, MIC = 1.3mg/mL; *Pseudomonas aeruginosa*, MIC = 1.5mg/mL)^[5305]; antifungal (*Fusarium oxysporum*, MIC = 0.4mg/mL; *Aspergillus niger*, MIC = 0.25mg/mL). Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.

**208 2 α -Acetoxy-4 β -hydroxy-6 α -angeloyloxy-10 β -cinnamoyloxy-dauc-8-ene**

C₃₁H₄₀O₇ (524.66). Amorphous yellowish powder. Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.

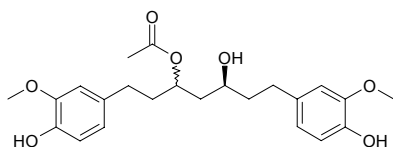
**209 9-Acetoxy-10-hydroxyaromadendrane**

C₁₇H₂₈O₃ (280.41). Colorless oil, [α]_D²⁰ = +34.4° (*c* = 0.1, CHCl₃). Source: *Tylianthus renifolius*. Ref: 3491.



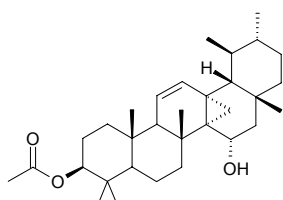
210 (3*R*,5*S*)-3-Acetoxy-5-hydroxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptane

C₂₃H₃₀O₇ (418.49). Colorless oil, $[\alpha]_D^{24} = +6.0^\circ$ ($c = 0.56$, CHCl₃). Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.



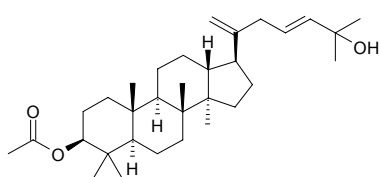
211 3β-Acetoxy-15α-hydroxy-13,27-cyclours-11-ene

C₃₂H₅₀O₃ (482.75). Colorless crystals, mp 130–135°C, $[\alpha]_D^{25} = +16.8^\circ$ ($c = 1.6$, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.



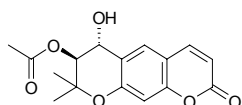
212 3β-Acetoxy-25-hydroxydammara-20,23-diene

C₃₂H₅₂O₃ (484.77). Glassy amorphous solid, $[\alpha]_D^{20} = +40^\circ$ ($c = 0.12$, CHCl₃). Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.



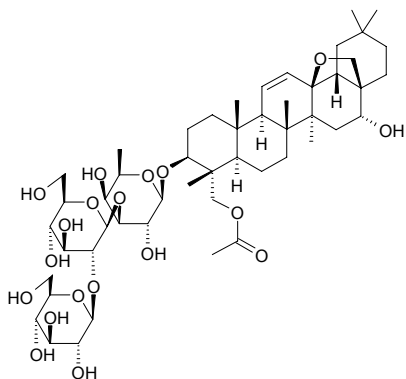
213 3'(S)-Acetoxy-4'(R)-hydroxy-3',4'-dihydroxanthyletin

C₁₆H₁₆O₆ (304.30). Light yellow powder, mp 158–160°C, $[\alpha]_D^{23} = +61.5^\circ$ ($c = 0.5$, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 874.



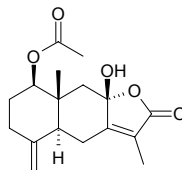
214 23-Acetoxy-16α-hydroxy-13,28-epoxyolean-11-en-3β-yl-β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl-(1→3)-β-D-fucopyranoside

C₅₀H₈₀O₁₉ (985.18). Source: GUAN MU CHAI HU *Bupleurum fruticosum*. Ref: 2247.



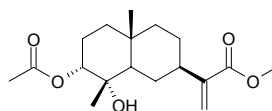
215 1β-Acetoxy-8β-hydroxyeudesman-4(15),7(11)-dien-8α,12-olide

C₁₇H₂₂O₅ (306.36). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 58 μg/mL). Source: XIAO MEI WEI QIN *Smyrniolum olusatrum* (fruit). Ref: 5162.



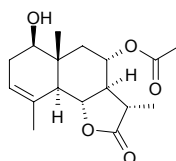
216 3α-Acetoxy-4α-hydroxy-11(13)-eudesmen-12-oic acid methyl ester

C₁₈H₂₈O₅ (324.42). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.



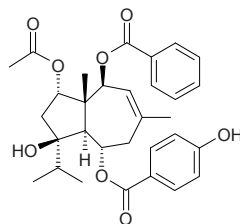
217 8α-Acetoxy-1β-hydroxyeudesm-3-en-5α,6β,7α,11βH-12,6-olide

C₁₇H₂₄O₅ (308.38). White needles (hexane–CH₂Cl₂), mp 137–139°C, $[\alpha]_D^{25} = +61^\circ$ ($c = 0.5$, CHCl₃). Source: JIA NA LI HAO *Artemisia canariensis*. Ref: 2332.



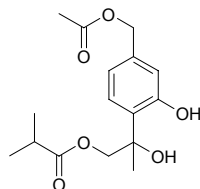
218 2α-Acetoxy-4β-hydroxy-6α-p-hydroxybenzoyloxy-10β-benzoyloxydauc-8-ene

C₃₁H₃₆O₈ (536.63). White powder, $[\alpha]_D^{25} = +22.8^\circ$ ($c = 0.30$, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 1.8 mg/mL; *Streptomyces scabies*, MIC = 1.2 mg/mL; *Bacillus subtilis*, MIC = 1.00 mg/mL; *Bacillus cereus*, MIC = 1.5 mg/mL; *Pseudomonas aeruginosa*, MIC = 1.3 mg/mL)^[5305]; antifungal (*Fusarium oxysporum*, MIC = 0.5 mg/mL; *Aspergillus niger*, MIC = 0.3 mg/mL). Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.



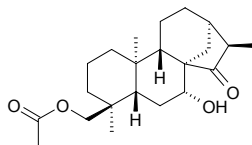
219 7-Acetoxy-8-hydroxy-9-isobutyryloxythymol

C₁₆H₂₂O₆ (310.35). $[\alpha]_D^{23} = -13.6^\circ$ ($c = 0.24$, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

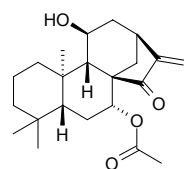


220 ent-(16S)-18-Acetoxy-7β-hydroxykauran-15-one

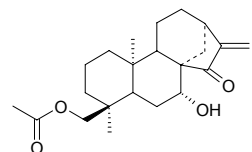
$C_{22}H_{34}O_4$ (362.51). Colorless needles, mp 175–176°C, $[\alpha]_D^{15} = -18^\circ$ ($c = 0.10$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.

**221 ent-7β-Acetoxy-11α-hydroxykaur-16-en-15-one**

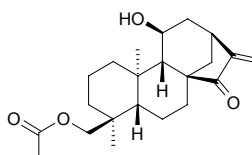
$C_{22}H_{32}O_4$ (360.50). White amorphous powder, $[\alpha]_D^{25} = -127.3^\circ$ ($c = 0.20$, $CHCl_3$). Pharm: Cytotoxic (BST test, weak active). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

**222 18-Acetoxy-7α-hydroxykaur-16-en-15-one**

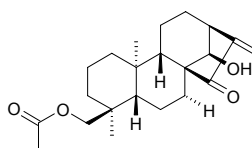
$C_{22}H_{32}O_4$ (360.5). White amorphous powder, mp 119–120°C, $[\alpha]_D^{18} = -10^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits LPS-induced NF-κB activation in murine macrophage RAW264.7 cells, $IC_{50} = 0.10 \mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.34 \mu\text{mol/L}$); NO production inhibitor ($IC_{50} = 0.21 \mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.01 \mu\text{mol/L}$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf; yield = 0.060%dw). Ref: 4724.

**223 ent-18-Acetoxy-11α-hydroxykaur-16-en-15-one**

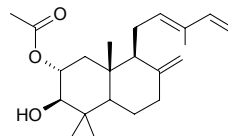
$C_{22}H_{32}O_4$ (360.50). White amorphous powder, $[\alpha]_D^{25} = -155.6^\circ$ ($c = 0.20$, $CHCl_3$). Pharm: Cytotoxic (BST test, weak active). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

**224 ent-18-Acetoxy-14α-hydroxykaur-16-en-15-one**

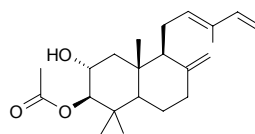
$C_{22}H_{32}O_4$ (360.50). White amorphous powder, $[\alpha]_D^{15} = -30^\circ$ ($c = 0.30$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.

**225 2-Acetoxy-3-hydroxy-labda-8(17),12(E),14-triene**

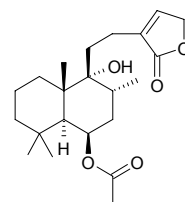
$C_{22}H_{34}O_3$ (346.51). White solid, mp 102–103°C, $[\alpha]_D^{20} = +50.17^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Cytotoxic (Kato3, $IC_{50} = 5.7 \mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 1.7 \mu\text{g/mL}$; SW620, $IC_{50} = 7.1 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1 \mu\text{g/mL}$; BT474, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.08 \mu\text{g/mL}$; HepG2, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9 \mu\text{g/mL}$; CHAGO, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3 \mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem bark). Ref: 5121.

**226 3-Acetoxy-2-hydroxy-labda-8(17),12(E),14-triene**

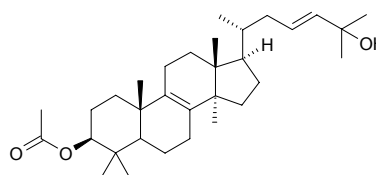
$C_{22}H_{34}O_3$ (346.51). White solid, mp 99–101°C, $[\alpha]_D^{20} = +9.46^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Cytotoxic (Kato3, $IC_{50} = 3.3 \mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 1.7 \mu\text{g/mL}$; SW620, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1 \mu\text{g/mL}$; BT474, $IC_{50} = 5.9 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.08 \mu\text{g/mL}$; HepG2, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9 \mu\text{g/mL}$; CHAGO, $IC_{50} > 10 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3 \mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem bark). Ref: 5121.

**227 6-Acetoxy-9-hydroxy-13(14)-labden-16,15-olide**

$C_{22}H_{34}O_5$ (378.51). Colorless oil, $[\alpha]_D = -7.3^\circ$ ($c = 0.8$, acetone), $[\alpha]_D = -10.0^\circ$ ($c = 3.3$, acetone). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = $66 \mu\text{mol/L}$). Source: MAN JING ZI *Vitex trifolia*. Ref: 2550.

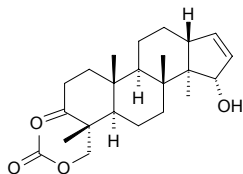
**228 3β-Acetoxy-25-hydroxy-lanosta-8,23-diene**

$C_{32}H_{52}O_3$ (484.77). Pharm: Cytotoxic (*in vitro*, HONE-1 cell, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (0.5 \pm 0.2) \mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (3.2 \pm 0.5) \mu\text{mol/L}$; KB cell, $IC_{50} > 10 \mu\text{mol/L}$, Etoposide, $IC_{50} = (0.9 \pm 0.3) \mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (4.4 \pm 0.9) \mu\text{mol/L}$; HT29 cell, $IC_{50} = (9.3 \pm 1.6) \mu\text{mol/L}$, Etoposide, $IC_{50} = (2.4 \pm 0.5) \mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (5.7 \pm 1.1) \mu\text{mol/L}$). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

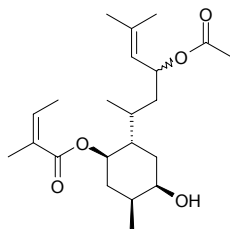


229 18-Acetoxy-15 α -hydroxymansumbinone

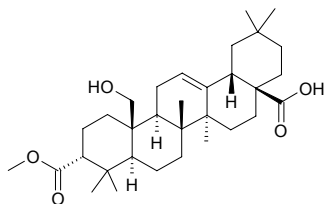
C₂₄H₃₆O₄ (388.55). Colorless crystals (*n*-hexane:CH₂Cl₂ = 1:2), mp 135~137°C, [α]_D²² = +25° (*c* = 1.0, CHCl₃). Source: KEN NI YA MO YAO *Commiphora kua* var. *gowllo*. Ref: 1991.

**230 (1*R**,3*S**,4*R**,6*S**)-9-(Acetoxy)-4-hydroxy-1-[(2*Z*)-2-methylbut-2-enoyloxy]bisabol-10(11)-ene**

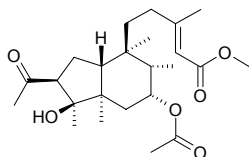
C₂₂H₃₆O₅ (380.53). Colorless gum, [α]_D²⁰ = +29.45°, (*c* = 1.613, MeOH). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC₅₀ = 11.4 μmol/L, *p* < 0.05, control Zileuton, IC₅₀ = 10.4 μmol/L, *p* < 0.05). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 5037.

**231 3 α -Acetoxy-25-hydroxyolean-12-en-28-oic acid**

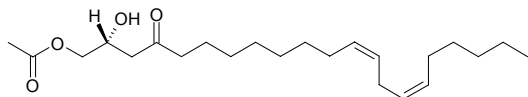
C₃₃H₅₀O₅ (514.75). Colorless columnar crystals, mp 274~276°C. Source: LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*]. Ref: 2226.

**232 7-Acetoxy-4-hydroxy-3-oxo-4(3→2)-abeo-13-clerodaen-15-oic acid methyl ester**

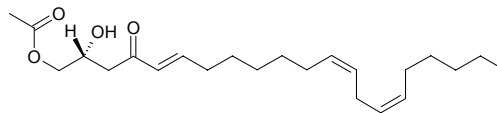
C₂₄H₃₈O₆ (422.57). [α]_D²⁴ = -28.0° (*c* = 0.25, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**233 (Z,Z)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-12,15-diene**

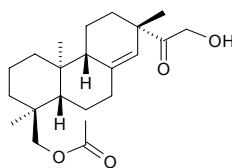
C₂₃H₄₀O₄ (380.57). Pharm: Antifungal (*Colletotrichum gloeosporioides*, ED₅₀ = 600 μg/mL). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**234 (E,Z,Z)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-5,12,15-triene**

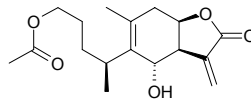
C₂₃H₃₈O₄ (378.56). [α]_D²² = +11.7° (*c* = 0.22, CHCl₃). Pharm: Antifungal (*Colletotrichum gloeosporioides*, ED₅₀ = 600 μg/mL). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**235 ent-18-Acetoxy-16-hydroxy-8(14)-pimaren-15-one**

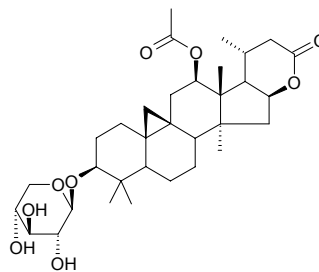
C₂₂H₃₄O₄ (362.51). Viscous oil, [α]_D²⁶ = -0.4° (*c* = 0.85, MeOH). Source: HAI NAN JIAN MU *Dysoxylum hainanense*. Ref: 750.

**236 1-Acetoxy-6 α -hydroxy-4 α H-1,10-secoeudesma-5(10),11(13)-dien-12,8 β -olide**

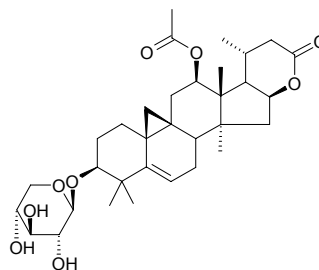
C₁₇H₂₄O₅ (308.38). Pharm: Cytotoxic inactive (SMMC-7721 IC₅₀ > 200 μg/mL, control Vincristine IC₅₀ = (30.35±2.23) μg/mL; HO-8910 IC₅₀ > 200 μg/mL, Vincristine IC₅₀ = (20.74±1.91) μg/mL). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

**237 12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranorcycloartan-23,16 β -olide 3-O- β -D-xylopyranoside**

C₃₃H₅₀O₉ (590.76). White powder, [α]_D = -75.0° (MeOH). Source: *Cimicifuga* sp. Ref: 4385.

**238 12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranorcycloart-7-en-23,16 β -olide 3-O- β -D-xylopyranoside**

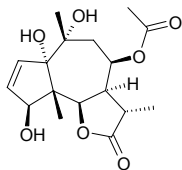
C₃₃H₄₈O₉ (588.75). White powder, [α]_D = -134.9° (MeOH). Source: *Cimicifuga* sp. Ref: 4385.



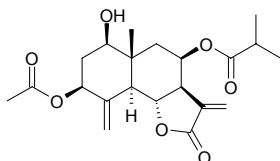
239 8-β-Acetoxyhysterone C

$C_{17}H_{24}O_7$ (340.38). Viscous mass, $[\alpha]_D^{25} = +32.67^\circ$ ($c = 0.08$, MeOH).

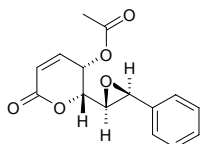
Source: YIN JIAO JU *Parthenium hysterophorus* (flower). Ref: 4489.

**240 3β-Acetoxy-8β-isobutyryloxyreynosin**

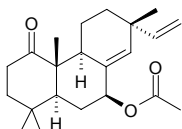
Anticancer Sesquiterpene PMV70P691-133 $C_{21}H_{28}O_7$ (392.45). Pharm: Cytotoxic (antiproliferative, Col2 cells, $IC_{50} = 5.9\mu\text{g/mL}$)^[4622]; cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, $4\mu\text{g/mL}$, activity denotes percentage of cells differentiated = 33.9%)^[4622, 5038]; cytotoxic (mouse mammary organ culture model (MMOC), inhibits DMBA-induced preneoplastic lesion formation, $10\mu\text{g/mL}$, rel-InRt = 63.0%, control DMBA, rel-InRt = 100%)^[4622]. Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0035%dw)^[4622]. Ref: 4622, 5038

**241 5-Acetoxyisogoniothalamine oxide**

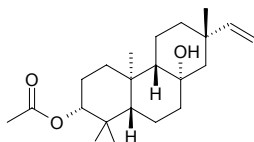
$C_{15}H_{14}O_5$ (274.28). Pharm: NADH oxidase inhibitor (mammalian mitochondrial respiratory chain inhibitor, $IC_{50} = (3.0\pm 0.3)\mu\text{mol/L}$, $IC_{100} = (22\pm 2)\mu\text{mol/L}$). Source: TIAN YE GE NA XIANG *Goniothalamus arvensis* (stem bark). Ref: 3961.

**242 7β-Acetoxyisopimara-8(14),15-dien-1-one**

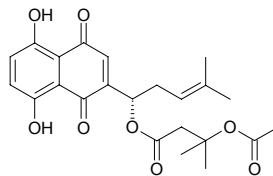
$C_{22}H_{32}O_3$ (344.50). Amorphous powder, $[\alpha]_D = +5.0^\circ$ ($c = 0.5$, CHCl_3). Pharm: Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA = 25–50 μg , yeast *Candida albicans*, MA = 25–50 μg). Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 3438.

**243 ent-3β-Acetoxyisopimar-15-en-8β-ol**

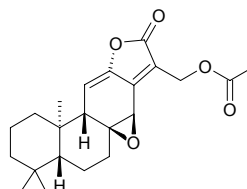
$C_{22}H_{36}O_3$ (348.53). mp 172.5–175 $^\circ\text{C}$, $[\alpha]_D^{20} = -20.4^\circ$ ($c = 0.11$, MeOH). Source: XIAO YE XIANG CHA CAI *Isodon parvifolia*. Ref: 4067.

**244 α-Acetoxyisovalerylalkannin**

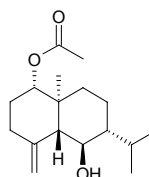
$C_{23}H_{26}O_8$ (430.46). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2193.

**245 17-Acetoxyjolkinoide A**

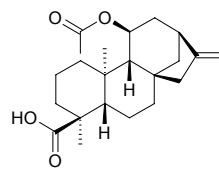
$C_{22}H_{26}O_5$ (372.47). Yellowish oil, $[\alpha]_D^{20} = +70^\circ$ ($c = 0.002$, CHCl_3). Source: LANG DU DA JI *Euphorbia fischeriana*. Ref: 2350.

**246 1α-Acetoxy-ent-junenol**

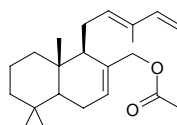
1 $\alpha,5\beta,6\beta,7\alpha,10\alpha$ -4(15)-Eudesmen-6-ol-1-yl-acetate $C_{17}H_{28}O_3$ (280.41). Amorphous powder, $[\alpha]_D^{22} = -11.2^\circ$ ($c = 0.45$, CHCl_3). Source: JING HONG AN LUO *Polyalthia cheliensis*. Ref: 2095.

**247 ent-11α-Acetoxykaur-16-en-18-oic acid**

$C_{22}H_{32}O_4$ (360.50). White amorphous powder, $[\alpha]_D^{25} = -91.2^\circ$ ($c = 0.60$, CHCl_3). Pharm: Cytotoxic inactive (BST test). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

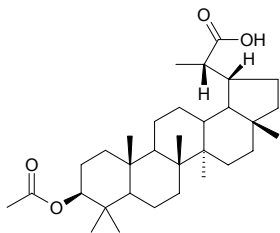
**248 17-Acetoxyabda-7,12(E),14-triene**

$C_{22}H_{34}O_2$ (330.52). Viscous liquid, $[\alpha]_D^{20} = -10.71^\circ$ ($c = 1.4$, CHCl_3). Pharm: Cytotoxic (*in vitro*, BT474, $IC_{50} = 4.7\mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 0.08\mu\text{g/mL}$; CHAGO, $IC_{50} = 5.7\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$; HepG2, $IC_{50} = 6.5\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$; Kato3, $IC_{50} = 5.3\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$; SW620, $IC_{50} = 5.6\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

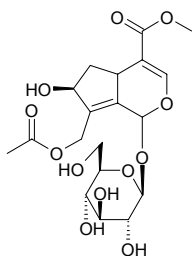


249 (20S)-3 β -Acetoxylupan-29-oic acid

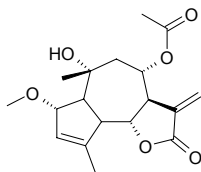
C₃₂H₅₂O₄ (500.77). Colorless solid, mp 287~290°C, [α]_D²⁹ = +18.9° (*c* = 0.7, CHCl₃). **Source:** RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000044%dw). **Ref:** 3047.

**250 10-Acetoxy majoroside**

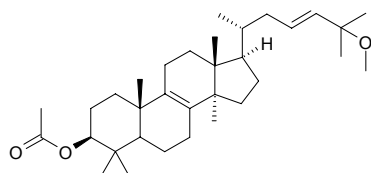
C₁₉H₂₆O₁₂ (446.41). [α]_D = -59° (*c* = 0.3, MeOH). **Source:** DA CHE QIAN *Plantago major*, JIAO ZHUANG CHE QIAN *Plantago cornuti*. **Ref:** 2404.

**251 8-Acetoxy-2-methoxy-10-hydroxy-3,11(13)-guaiadien-12,6-olide**

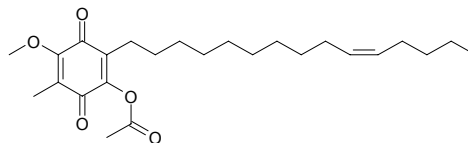
C₁₈H₂₄O₆ (336.39). [α]_D²⁵ = +120.9° (*c* = 1.583, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, ACHN cell lines, IC₅₀ = (1.21±0.21)μg/mL, control Adriamycin, IC₅₀ = (0.09±0.03)μg/mL; LOX-IMVI, IC₅₀ = (4.86±0.34)μg/mL, Adriamycin, IC₅₀ = (0.05±0.02)μg/mL; SW620, IC₅₀ = (1.65±0.28)μg/mL, Adriamycin, IC₅₀ = (0.19±0.07)μg/mL; PC3, IC₅₀ = (4.00±0.15)μg/mL, Adriamycin, IC₅₀ = (0.76±0.12)μg/mL; A549, IC₅₀ = (3.53±0.26)μg/mL, Adriamycin, IC₅₀ = (0.28±0.09)μg/mL); anti-apoptosis (etoposide-induced, IC₅₀ = (8.6±0.7)μg/mL; control PDTC, IC₅₀ = (8.0±0.5)μg/mL). **Source:** BEI YE JU *Chrysanthemum boreale*. **Ref:** 5455.

**252 3 β -Acetoxy-25-methoxy-lanosta-8,23-diene**

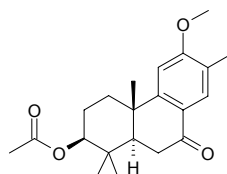
C₃₃H₅₄O₃ (498.80). Colorless solid, mp 148~150°C, [α]_D²⁶ = +30.4° (*c* = 2.7, CHCl₃). **Pharm:** Cytotoxic inactive (HONE-1 cell, IC₅₀ > 10μmol/L; KB cell, IC₅₀ > 10μmol/L; HT29 cell, IC₅₀ > 10μmol/L). **Source:** RONG SHU *Ficus microcarpa* (aerial root). **Ref:** 5254.

**253 2-Acetoxy-5-methoxy-6-methyl-3-[(Z)-10'-pentadecenyl]-1,4-benzoquinone**

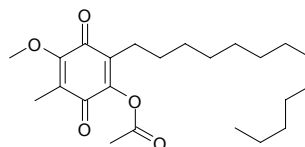
C₂₅H₃₈O₅ (418.58). Yellow gum. **Source:** PI ZHEN DU JING SHAN *Maesa lanceolata*. **Ref:** 1860.

**254 3 β -Acetoxy-12-methoxy-13-methyl-podocarpa-8,11,13-trien-7-one**

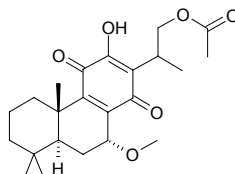
C₂₁H₂₈O₄ (344.45). White crystals, mp 158~159°C, [α]_D²⁵ = -25.2° (*c* = 0.5, CHCl₃). **Source:** MA FENG SHU *Jatropha curcas* (aerial parts). **Ref:** 4287.

**255 2-Acetoxy-5-methoxy-6-methyl-3-tridecyl-1,4-benzoquinone**

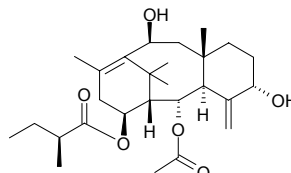
C₂₃H₃₆O₅ (392.54). Pale-yellow needles (hot *n*-hexane) mp 56~57°C **Source:** PI ZHEN DU JING SHAN *Maesa lanceolata*. **Ref:** 1860.

**256 16-Acetoxy-7 α -methoxyroyleanone**

C₂₃H₃₂O₆ (404.51). Yellow acicular crystals, mp 185~187°C, [α]_D¹⁶ = +12.3° (*c* = 0.3, methanol). **Source:** CHANG YE XIANG CHA CAI *Rabdosia stracheyi*. **Ref:** 76, 4067.

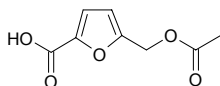
**257 2 α -Acetoxy-14 β -[(S)-2-methyl-butiryloxy]-4(20),11-taxadiene**

C₂₇H₄₂O₆ (462.63). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). **Ref:** 5407.

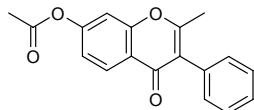


258 5-(Acetoxymethyl)-furan-2-carboxylic acid

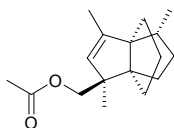
$C_8H_8O_5$ (184.15). Amorphous powder. **Pharm:** Antioxidant inactive (DPPH radical scavenger, 25 μ g/mL, ScRt = 5.9%; control BHT, 25 μ g/mL, ScRt = 18.6%); antioxidant inactive (thiobarbituric acid assay, inhibits peroxidation of linolenic acid, 37mg/mL, InRt = 2.3%; BHT 37mg/mL, InRt = 73.9%). **Source:** fungus *Epicoccum* sp. **Ref:** 5445.

**259 7-Acetoxy-2-methylisoflavone**

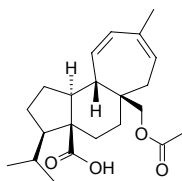
$C_{18}H_{14}O_4$ (294.31). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2, 660.

**260 14-Acetoxymodhephene**

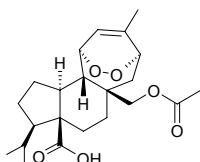
$C_{17}H_{26}O_2$ (262.40). Colorless oil, $[\alpha]_{589nm} = +15^\circ$, $[\alpha]_{578nm} = +16^\circ$, $[\alpha]_{546nm} = +19^\circ$, $[\alpha]_{436nm} = +31^\circ$, $[\alpha]_{365nm} = +47^\circ$ ($c = 2.02$, $CHCl_3$). **Source:** JUAN MAO KUO BAO JU *Pluchea sericea*. **Ref:** 2277.

**261 17-Acetoxytulipin-11,13-dien-20-oic acid**

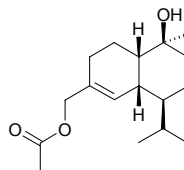
$C_{22}H_{32}O_4$ (360.50). **Pharm:** Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, ip 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 60%; control Chloroquine, $IC_{50} = 2.5$ mg/(kg·d)). **Source:** MI XIAO YING QIN *Azorella compacta* (aerial parts). **Ref:** 3815.

**262 17-Acetoxytulipinic acid**

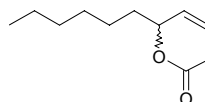
$C_{22}H_{32}O_6$ (392.50). **Pharm:** Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, ip 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 26%; control Chloroquine, $IC_{50} = 2.5$ mg/(kg·d)). **Source:** MI XIAO YING QIN *Azorella compacta* (aerial parts). **Ref:** 3815.

**263 15-Acetoxy-T-muurolol**

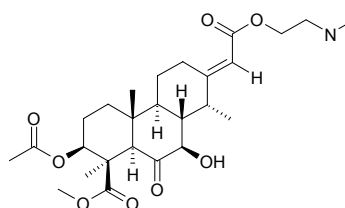
$C_{17}H_{28}O_3$ (280.41). Amorphous solid, $[\alpha]_D^{31} = -51.2^\circ$ ($c = 0.08$, $CHCl_3$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (root). **Ref:** 4371.

**264 3-Acetoxy-1-nonene**

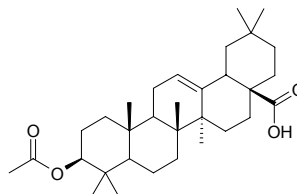
[31795-37-6] $C_{11}H_{20}O_2$ (184.28). **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**265 3β-Acetoxynererythrosumine**

[58189-26-7] $C_{26}H_{39}NO_8$ (493.60). mp 173~175°C. **Pharm:** Cytotoxic (KB, $ED_{50} = 0.003$ μ g/mL). **Source:** LU SUI GE MU *Erythrophleum chlorostachyum*. **Ref:** 1, 5, 661.

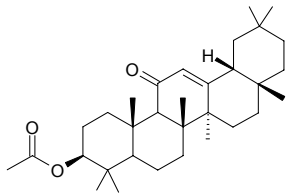
**266 3β-Acetoxyolean-12-en-28-oic acid**

3 β -Acetyloleanolic acid [4339-72-4] $C_{32}H_{50}O_4$ (498.75). Colorless acicular crystals, mp 258~268°C, $[\alpha]_D^{25} = +74^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Cytotoxic (Col2, $IC_{50} = 10.4$ μ g/mL, control Ellipticine, $IC_{50} = 0.3$ μ g/mL; LNCaP, $IC_{50} > 20$ μ g/mL; KB, $IC_{50} > 20$ μ g/mL; LU1, $IC_{50} > 20$ μ g/mL)^[4419]; inhibits promotor of cancer (skin tumor); immunoenhancer; antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (7.65 \pm 0.49)$ μ g/mL; control Chloroquine, $IC_{50} = (0.05 \pm 0.002)$ μ g/mL)^[4419]. **Source:** BAI TOU WENG *Pulsatilla chinensis*, HUA MU PI *Betula platyphylla*, KUN MING SHAN HAI TANG *Tripterygium hypoglucum*, LONG NAO GAO XIANG *Dryobalanops aromatica*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], NV ZHEN ZI *Ligustrum lucidum*, QIAN CAO GEN *Rubia cordifolia*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, ZI MEI SHU *Millingtonia hortensis*, *Drypetes molunduana* (stem), *Nuxia sphaerocephala* (leaf). **Ref:** 6, 660, 1667, 1668, 3989, 4419, 5400.

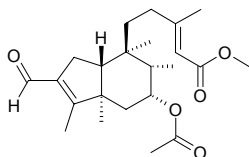


267 3 β -Acetoxy-12-oleanen-11-one

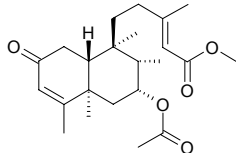
C₃₂H₅₀O₃ (482.75). Colorless solid (CH₂Cl₂), mp 283–286°C. Source: RONG SHU *Ficus microcarpa* (aerial root; yield = 0.00026%dw). Ref: 3047.

**268 7-Acetoxy-3-oxo-4(3→2)-abeo-2(4),13-clerodadien-15-oic acid methyl ester**

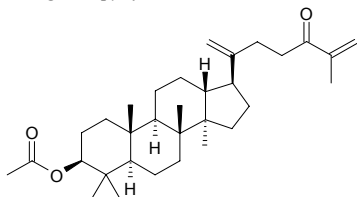
C₂₃H₃₄O₅ (390.52). [α]_D²³ = +12.0° (*c* = 0.69, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**269 7-Acetoxy-2-oxo-3,13-clerodadien-15-oic acid methyl ester**

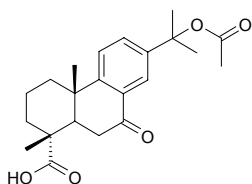
C₂₃H₃₄O₅ (390.52). mp 195–198°C (EtOAc), [α]_D²² = –80.9° (*c* = 1.02, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**270 3 β -Acetoxy-24-oxo-dammara-20,25-diene**

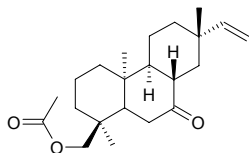
C₃₂H₅₀O₃ (482.75). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.

**271 15-Acetoxy-7-oxo-dehydroabietic acid**

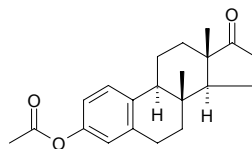
C₂₂H₂₈O₅ (372.47). Amorphous solid, [α]_D²⁵ = +7.2° (*c* = 0.34, CHCl₃). Source: TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). Ref: 4054.

**272 18-Acetoxy-7-oxo-9-epi-ent-pimara-15-ene**

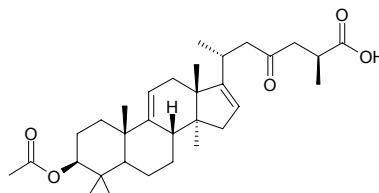
C₂₂H₃₄O₃ (346.51). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.

**273 3-Acetoxy-17-oxo-estra-1,3,5(10)-triene**

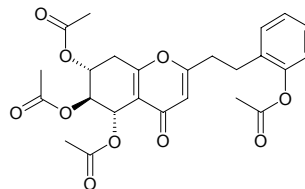
C₂₀H₂₄O₃ (312.41). Reddish plates (MeOH), mp 92–94°C. Source: DUAN ROU MAO ZHI XIE MU *Holarrhena pubescens* (bark). Ref: 5231.

**274 (25R)-3 β -Acetoxy-23-oxo-9,16-lanostadien-26-oic acid**

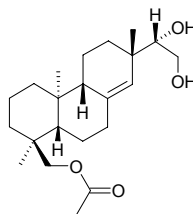
C₃₂H₄₈O₅ (512.74). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.

**275 (5S,6S,7R)-2-[2-(2-Acetoxyphenyl)ethyl]-5 α ,6 β ,7 α -triacetoxy-5,6,7,8-tetrahydrochromone (AH9)**

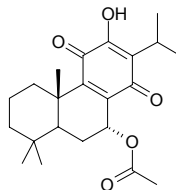
C₂₅H₂₆O₁₀ (486.48). Colorless acicular crystals, mp 147–148°C, [α]_D = –11.1°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

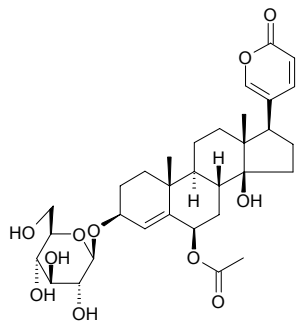
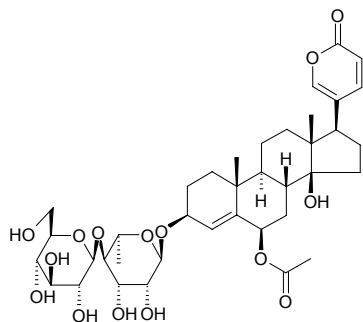
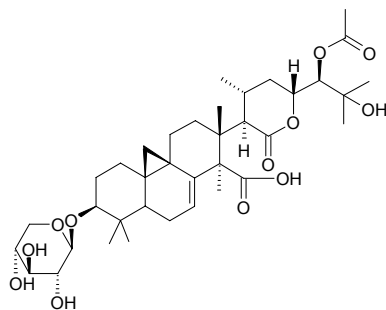
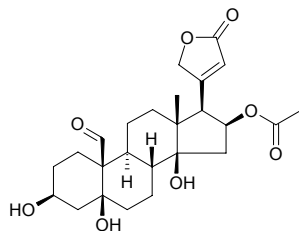
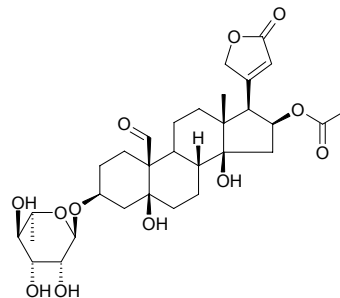
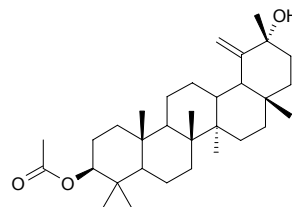
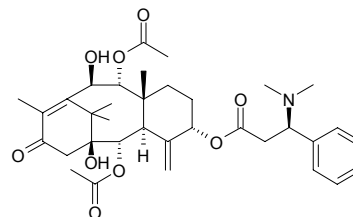
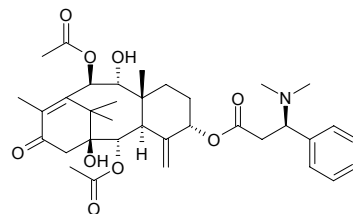
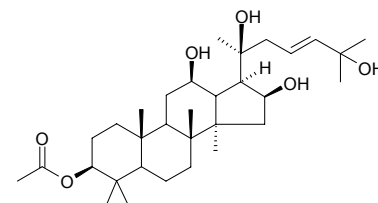
**276 ent-18-Acetoxy-8(14)-pimarene-15S,16-diol**

C₂₂H₃₆O₄ (364.53). Viscous oil, [α]_D²⁶ = –3.5° (*c* = 0.50, MeOH). Source: HAI NAN JIAN MU *Dysoxylum hainanense*. Ref: 750.

**277 7 α -Acetoxyroyleanone**

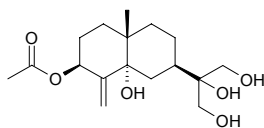
C₂₂H₃₀O₅ (374.48). Yellow crystals, mp 194–198°C. Source: XIU QIU SHU WEI CAO *Salvia hydrangea* (root). Ref: 5447.



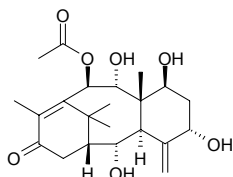
278 6 β -Acetoxy scillarenin 3-O- β -D-glucopyranosideC₃₂H₄₄O₁₁ (604.70). Amorphous powder, $[\alpha]_D^{28} = -52.4^\circ$ ($c = 8.04$, MeOH).Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.**279 6 β -Acetoxy scillarenin 3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranoside**C₃₈H₅₄O₁₅ (750.85). Amorphous powder, $[\alpha]_D^{26} = -83.4^\circ$ ($c = 0.6$, MeOH).Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.**280 24-Acetoxy-15,16-seco-cycloart-7-en 3-O-xyloside**C₃₇H₅₆O₁₂ (692.85). White needles, $[\alpha]_D = -31.2^\circ$ (MeOH). Source:*Cimicifuga* sp. (Rhizome). Ref: 4396.**281 16 β -Acetoxystrophanthidin**C₂₅H₃₄O₈ (462.54). mp 232~237°C. Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.**282 16 β -Acetoxy-strophanthidin-3- β -D-O-rhamnoside**C₃₁H₄₄O₁₂ (608.69). mp 262~268°C, $[\alpha]_D = -13.4^\circ$. Source: HEI GANG LIU*Periploca nigrescens*. Ref: 1521, 2498.**283 3 β -Acetoxy-19(29)-taraxasten-20 α -ol**C₃₂H₅₂O₃ (484.77). Colorless solid, mp 245~248°C, $[\alpha]_D^{24} = +55.3^\circ$ ($c = 0.5$, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.**284 9-Acetoxytaxine B**C₃₅H₄₇NO₉ (625.77). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**285 10-Acetoxytaxine B**C₃₅H₄₇NO₉ (625.77). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**286 (20S)-3 β -Acetoxy-12 β ,16 β ,25-tetrahydroxydammar-23-ene**C₃₂H₅₄O₆ (534.78). Colorless crystals, mp 244~246°C, $[\alpha]_D^{25} = +76^\circ$ ($c = 1.0$, CH₂Cl₂). Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.

287 3 β -Acetoxy-5 α ,11,12,13-tetrahydroxy-eudesm-4(15)-ene

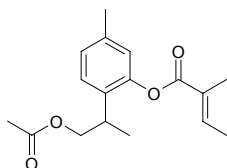
C₁₇H₂₈O₆ (328.41). [α]_D²⁵ = +6.9° (c = 0.42, CHCl₃). Source: XI LA SI MAO SHI *Achillea holosericea*. Ref: 2008.

**288 10 β -Acetoxy-2 α ,5 α ,7 β ,9 α -tetrahydroxytaxa-4(20),11-dien-13-one**

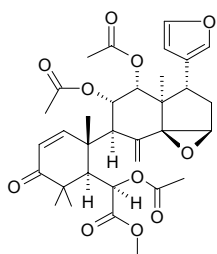
C₂₂H₃₂O₇ (408.50). Colorless amorphous solid, [α]_D²⁵ = +22.2° (c = 0.16, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). Ref: 3481.

**289 9-Acetoxythymo 13-O-tiglate**

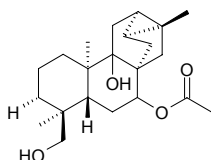
C₁₇H₂₂O₄ (290.36). [α]_D²⁴ = -10.5° (c = 0.57, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**290 Acetoxytoonacilin**

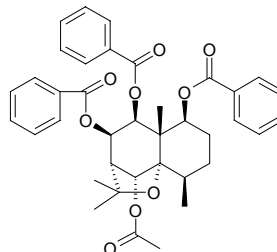
[66610-70-6] C₃₃H₄₀O₁₁ (612.68). Prismatic crystals, mp 215°C, [α]_D²⁰ = +42.5° (c = 1g/100ml, chloroform). Pharm: Pesticide. Source: HONG CHUN *Toona ciliata*. Ref: 661.

**291 7 β -Acetoxytrachyloban-18-oic acid**

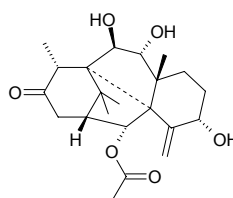
C₂₂H₃₄O₄ (362.51). Source: ZAN BI XI BA DOU *Croton zambesicus*. Ref: 4552.

**292 6 α -Acetoxy-1 β ,8 β ,9 β -tribenzoyloxy- β -dihydroagarofuran**

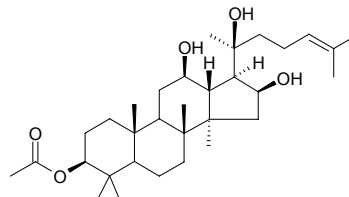
C₃₈H₄₀O₉ (640.74). Pharm: NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). Source: NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2584.

**293 (12 α)-2 α -Acetoxy-5 α ,9 α ,10 β -trihydroxy-3,11-cyclotax-4(20)-en-13-one**

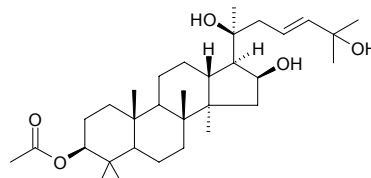
C₂₂H₃₂O₆ (392.50). Gum, [α]_D²⁴ = -17° (c = 0.01, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (seed). Ref: 3991.

**294 3 β -Acetoxy-12 β ,16 β ,20S-trihydroxydammar-24-ene**

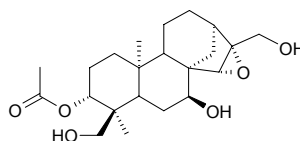
C₃₂H₅₄O₅ (518.78). Colorless needles, mp 188~190°C, [α]_D²⁵ = +46.7° (c = 1.0, CH₂Cl₂). Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.

**295 3 β -Acetoxy-16 β ,20S,25-trihydroxydammar-23-ene**

C₃₂H₅₄O₅ (518.78). Colorless needles, [α]_D²⁵ = +38.3° (c = 0.5, CH₂Cl₂). Source: KU A MO YAO *Commiphora kua* (resin). Ref: 4334.

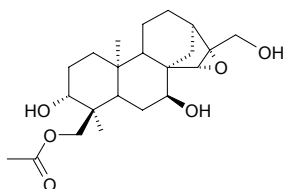
**296 ent-3 β -Acetoxy-7 α ,17,18-trihydroxy-15 β ,16 β -epoxykaurane**

C₂₂H₃₄O₆ (394.51). Syrup, [α]_D = +13.5° (c = 1, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

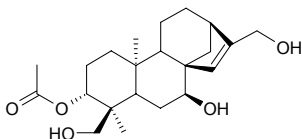


297 ent-18-Acetoxy-3 β ,7 α ,17-trihydroxy-15 β ,16 β -epoxykaurane

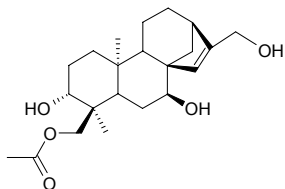
C₂₂H₃₄O₆ (394.51). White solid, mp 134–136°C, [α]_D = +12.8° (*c* = 0.5, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**298 ent-3 β -Acetoxy-7 α ,17,18-trihydroxykaur-15-ene**

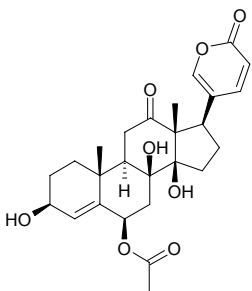
C₂₂H₃₄O₅ (378.51). White solid, mp 147–149°C, [α]_D = +13.2° (*c* = 0.5, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**299 ent-18-Acetoxy-3 β ,7 α ,17-trihydroxykaur-15-ene**

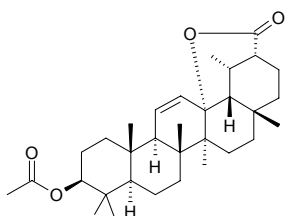
C₂₂H₃₄O₅ (378.51). Syrup, [α]_D = +8.6° (*c* = 0.63, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**300 6 β -Acetoxy-3 β ,8 β ,14 β -trihydroxy-12-oxobufa-4,20,22-trienolide**

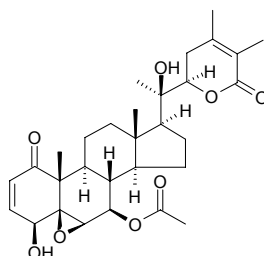
C₂₆H₃₂O₈ (472.54). Yellow amorphous compound. Source: CHU TU HAI CONG *Urginea epigea* (bulb). Ref: 3882.

**301 3 β -Acetoxy-11-ursen-13 α ,30-olide**

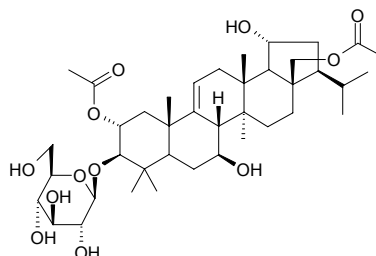
C₃₂H₄₈O₄ (496.74). Amorphous powder, [α]_D²⁵ = +46.9° (*c* = 0.3, MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.

**302 7 β -Acetoxywithanolide D**

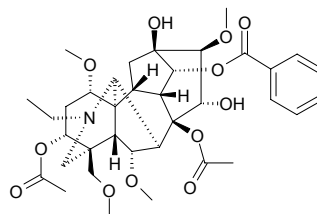
7 β -Acetoxy-4 β ,20 R -dihydroxy-5 β ,6 β -epoxy-1-oxo-witha-2,24-dienolide C₃₀H₄₀O₈ (528.65). mp 151–153°C (EtOAc). Source: BA XI YE YAN *Acnistus arborescens*. Ref: 2003.

**303 2-O-Acetyl-28-O-acetyl-rubianoside IV**

C₄₀H₆₄O₁₂ (736.95). Pharm: Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (0.1 \pm 0.3)%, control *L*-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase inhibitor inactive (rat basophilic cell RBL-2H3, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (1.2 \pm 2.4)%). Source: XIAO HONG SHEN *Rubia yunnanensis* (root). Ref: 4347.

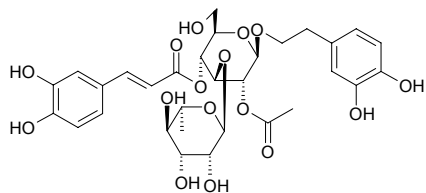
**304 3-Acetylaconitine**

Flaconitine [77181-26-1] C₃₆H₄₉NO₁₂ (687.79). White crystals (absolute alcohol), mp 196–197°C, [α]_D²⁴ = +18.6° (*c* = 1, chloroform). Pharm: Anti-inflammatory; antipyretic; causes arrhythmia (rat, iv, 0.097mg/kg); antihypertensive (dose < 0.097mg/kg); inhibits myocardial contractility (dose < 0.097mg/kg); analgesic (for all 1500 cases in clinic, analgesic effective rate = (95–97)%, non-habitual); LD₅₀ (mus, sc) = 1.4mg/kg, (mus, iv) = 0.470mg/kg. Source: BEI WU TOU *Aconitum kusnezoffii*, XUAN WEI WU TOU *Aconitum nagarum* var. *lasiandrum*. Ref: 900.

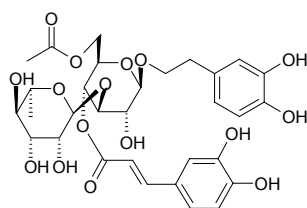


305 2'-Acetyllactoside

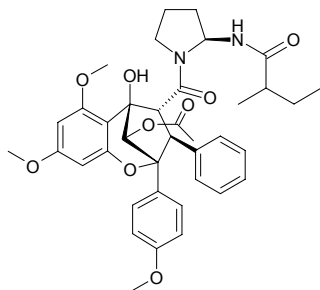
[94492-24-7] C₃₁H₃₈O₁₆ (666.64). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], ROU CONG RONG *Cistanche deserticola*. Ref: 2, 628.

**306 6'-O-Acetyllactoside**

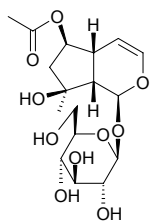
C₃₁H₃₈O₁₆ (666.64). Pharm: Elastase inhibitor (hmn leukocyte *in vitro*, IC₅₀ = 47 μg/mL = 70 μmol/L; control Caffeic acid, IC₅₀ = 86 μg/mL = 475 μmol/L). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5458.

**307 10-O-Acetylglaine B**

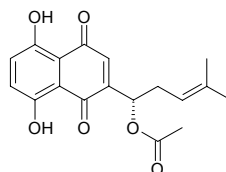
C₃₈H₄₄N₂O₉ (672.78). Amorphous powder, [α]_D²⁰ = +20.4° (c = 0.83, MeOH). Source: TUE YUAN MI ZI LAN *Aglaia elliptica* (leaf). Ref: 4127.

**308 6-O-Acetylajugol**

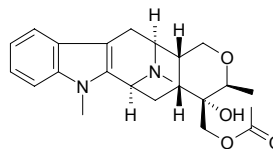
C₁₇H₂₆O₁₀ (390.39). Powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**309 Acetylalkannin**

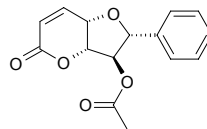
C₁₈H₁₈O₆ (330.34). Red acicular crystals (petroleum spirit), mp 92–94°C. Pharm: Anti-inflammatory (rat, tampon granuloma and swell-foot induced by formaldehyde); platelet aggregation inhibitor; antioxidant. Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*, JIA ZI CAO *Arnebia guttata*, DIAN ZI CAO *Onosma paniculatum*. Ref: 1, 2, 658, 660, 2193.

**310 Acetyl-alstohentine**

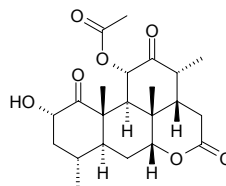
C₂₃H₃₀N₂O₄ (398.51). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf). Ref: 3020.

**311 3-Acetylalholactone**

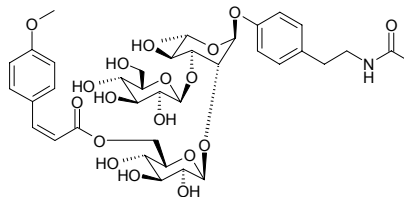
C₁₅H₁₄O₅ (274.28). mp 140–142°C, [α]_D = +166.6° (c = 0.3, EtOH). Pharm: NADH oxidase inhibitor (mammalian mitochondrial respiratory chain inhibitor, IC₅₀ = (4.7±1.6) μmol/L, IC₁₀₀ = (32±4) μmol/L). Source: TIAN YE GE NA XIANG *Goniotalamus arvensis* (stem bark). Ref: 3961.

**312 Acetylamarolide**

C₂₂H₃₀O₇ (406.48). mp 264–265°C. Source: CHU BAI PI *Ailanthus altissima*. Ref: 6.

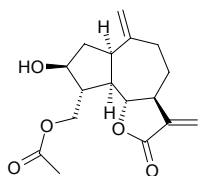
**313 4-Acetylaminoethylphenyl-1-O-[6-O-(Z)-p-methoxycinnamoyl-β-D-glucopyranosyl(1→2)]-[β-D-glucopyranosyl(1→3)]-α-L-rhamnopyranoside**

C₃₈H₅₁NO₁₈ (809.83). White needles (MeOH), mp 198–199°C, [α]_D²⁵ = –14.1° (c = 0.75, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial part; yield = 0.00062%dw). Ref: 4665.

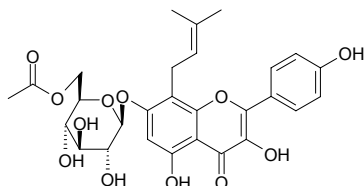


314 15-O-Acetylaphoricarpolide

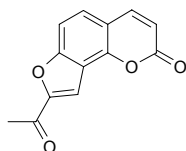
$C_{17}H_{22}O_5$ (306.36). Colorless oil, $[\alpha]_D^{25} = -40.5^\circ$ ($c = 0.44$, $CHCl_3$). Source: *Amphoricarpus neumayeri* ssp. *neumayeri* (aerial parts), *Amphoricarpus neumayeri* ssp. *murbeckii* (aerial parts). Ref: 3842.

**315 6'''-O-Acetylamurensin**

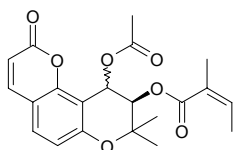
$C_{28}H_{30}O_{12}$ (558.54). Yellow powder, mp 235~237°C, $[\alpha]_D^{25} = -91.3^\circ$ ($c = 0.05$, MeOH). Source: RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4502.

**316 2'-Acetylangelicin**

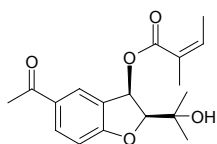
$C_{13}H_8O_4$ (228.21). Light yellow acicular crystals, mp 200~202°C (ethanol). Source: SHE CHUANG ZI *Cnidium monnieri*. Ref: 352.

**317 (±)-4'-O-Acetyl-3'-O-angeloyl-cis-khellactone**

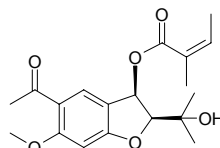
$C_{21}H_{22}O_7$ (386.41). Pharm: Induces mitochondria-mediated apoptosis (HL-60 cells). Source: BAI HUA QIAN HU *Peucedanum praeruptorum* (root). Ref: 4983.

**318 5-Acetyl-3β-angeloyloxy-2β-(1-hydroxyisopropyl)-2,3-dihydrobenzofuran**

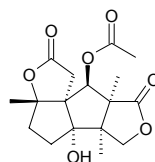
$C_{18}H_{22}O_5$ (318.37). Yellowish oil, $[\alpha]_D^{25} = -75.7^\circ$ ($c = 0.57$, $CHCl_3$). Pharm: Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 200μg/mL, control Miconazole, MIC = 8μg/mL; *Trichophyton rubrum* ATCC28188, MIC = 100μg/mL, Miconazole, MIC = 8μg/mL). Source: *Eupatorium aschenbornianum*. Ref: 5472.

**319 5-Acetyl-3β-angeloyloxy-2β-(1-hydroxyisopropyl)-6-methoxy-2,3-dihydrobenzofuran**

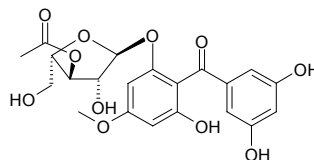
$C_{19}H_{24}O_6$ (348.40). Colorless oil, $[\alpha]_D^{25} = -30.4^\circ$ ($c = 0.53$, $CHCl_3$). Pharm: Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 50μg/mL, control Miconazole, MIC = 8μg/mL; *Trichophyton rubrum* ATCC28188, MIC = 50μg/mL, Miconazole, MIC = 8μg/mL). Source: *Eupatorium aschenbornianum*. Ref: 5472.

**320 7-O-Acetylanislactone B**

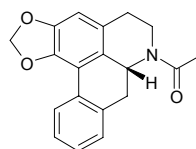
$C_{17}H_{22}O_7$ (338.36). Source: *Illicium merrillianum* (pericarp: yield = 0.00006%dw). Ref: 3046.

**321 Acetylannulatophenonoside**

$C_{21}H_{22}O_{11}$ (450.40). Colorless prismatic crystals ($H_2O-EtOH$), mp 177.5~179.5°C, $[\alpha]_D^{20} = -7.48^\circ$ ($c = 1.055$, MeOH). Source: HUAN ZHUANG JIN SI TAO *Hypericum annulatum*. Ref: 2009.

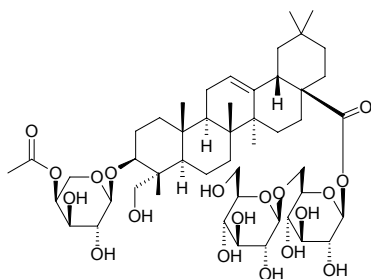
**322 N-Acetylanonaine**

$C_{19}H_{17}NO_3$ (307.35). Pharm: Platelet aggregation inhibitor (rat blood: 2~5μmol/L ADP-induced, $IC_{50} = 450\mu mol/L$, control Acetylsalicylic acid, $IC_{50} > 1000\mu mol/L$; 2~5μg/mL collagen-induced, $IC_{50} = 32\mu mol/L$, Acetylsalicylic acid, $IC_{50} = 420\mu mol/L$; 1~4μmol/L epinephrine-induced with threshold concentration of collagen (0.8~1.0μg/mL), $IC_{50} = 0.39\mu mol/L$, Acetylsalicylic acid, $IC_{50} = 53\mu mol/L$; 10~40μmol/L AA-induced with threshold concentration of collagen (0.8~1.0μg/mL), $IC_{50} = 0.25\mu mol/L$, Acetylsalicylic acid, $IC_{50} = 66\mu mol/L$; 1~5μmol/L U46619-induced with threshold concentration of collagen (0.8~1.0μg/mL), $IC_{50} = 3.6\mu mol/L$, Acetylsalicylic acid, $IC_{50} = 340\mu mol/L$; 1~2μmol/L hmn U46619 in 1mmol/L acetylsalicylic acid-induced, $IC_{50} = 64\mu mol/L$, control Pentolamine, $IC_{50} > 100\mu mol/L$, control Yohimbine, $IC_{50} > 100\mu mol/L$). Source: RI BEN HOU PO *Magnolia obovata* (leaf). Ref: 5381.



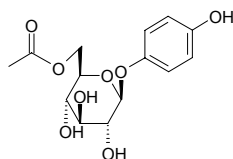
323 3-O-(4-O-Acetyl)- α -L-arabinopyranosyl-hederagenin 28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

C₄₉H₇₈O₁₉ (971.16). White powder, mp 198–201°C, [α]_D²³ = +19.7° (c = 0.25, methanol). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 201.



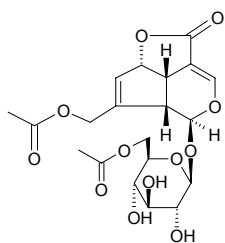
324 6-O-Acetylbutin

Pyroside [10338-88-2] C₁₄H₁₈O₈ (314.29). mp 214–216°C, [α]_D²³ = –58.8° (c = 2.0, H₂O). Source: XI YANG LI *Pyrus communis*, YUE JU YE *Vaccinium vitis-idaea*. Ref: 6, 1521.



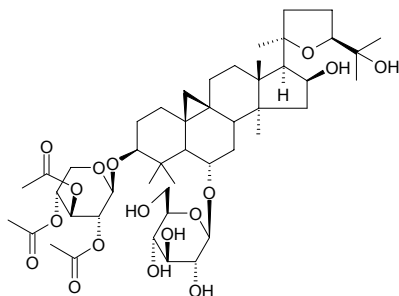
325 6'-Acetyl asperuloside

C₂₀H₂₄O₁₂ (456.41). White powder, [α]_D = –104.6° (c = 0.085, methanol). Source: JIN MAO ER CAO *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*]. Ref: 400.



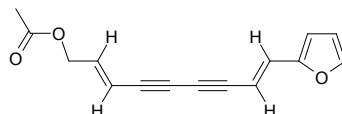
326 Acetyl astragaloside I

C₄₇H₇₄O₁₇ (911.10). Source: HUANG QI *Astragalus membranaceus*. Ref: 660.



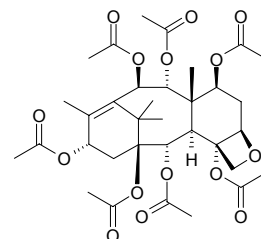
327 Acetyl-atractylodinol

[61582-39-6] C₁₅H₁₂O₃ (240.26). Source: BEI CANG ZHU *Atractylodes chinensis*. Ref: 2.



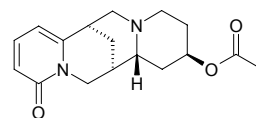
328 1 β -Acetylbaccatin IV

C₃₄H₄₆O₁₅ (694.74). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



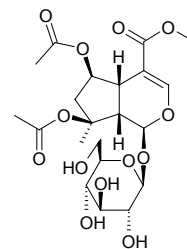
329 13-O-Acetylbaptifoline

C₁₇H₂₂N₂O₃ (302.38). Colorless oleaginous substance, [α]_D = –101° (c = 0.18, EtOH). Source: MU MA DOU *Thermopsis lanceolata*. Ref: 699.



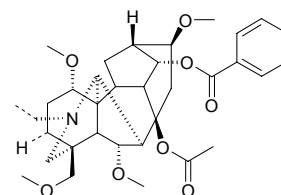
330 Acetylbarlerin

C₂₁H₃₀O₁₃ (490.47). [α]_D³⁰ = –113.7° (c = 0.105, MeOH). Pharm: Cytotoxic inactive (Vero cells)^[5456]; COX-2 inhibitor inactive^[5456]. Source: HUA YE JIA DU JUAN *Barleria lupulina* (flower). Ref: 5456.



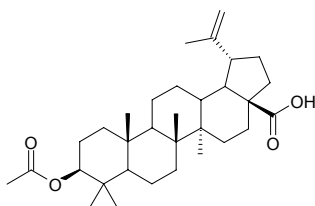
331 8-Acetyl-14-benzoylchamanine

[4296-54-2] C₃₄H₄₇NO₈ (597.76). Colorless acicular crystals, mp 150–152°C, [α]_D²⁵ = +9.8° (c = 0.08, ethanol). Source: SONG PAN WU TOU *Aconitum sungpanense*. Ref: 107.

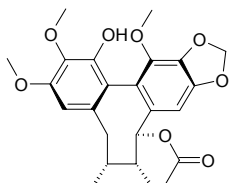


332 Acetylbetulinic acid

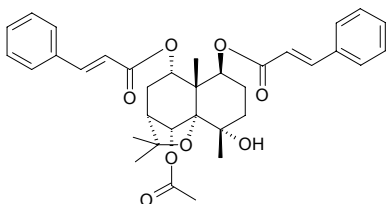
$C_{32}H_{50}O_4$ (498.75). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell, IC_{50} = $(4.7 \pm 1.9) \mu\text{mol/L}$, control Etoposide, IC_{50} = $(0.5 \pm 0.2) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(3.2 \pm 0.5) \mu\text{mol/L}$; KB cell, IC_{50} = $(6.7 \pm 2.6) \mu\text{mol/L}$, Etoposide, IC_{50} = $(0.9 \pm 0.3) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(4.4 \pm 0.9) \mu\text{mol/L}$; HT29 cell, IC_{50} > $10 \mu\text{mol/L}$, Etoposide, IC_{50} = $(2.4 \pm 0.5) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(5.7 \pm 1.1) \mu\text{mol/L}$). **Source:** RONG SHU *Ficus microcarpa* (aerial root). **Ref:** 5254.

**333 Acetylbinankadsurin A**

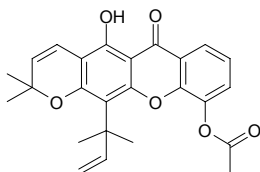
$C_{24}H_{28}O_8$ (444.49). **Source:** RI BEN NAN WU WEI ZI *Kadsura japonica*. **Ref:** 660.

**334 5 α -Acetyl-1 β ,8 α -bis-cinnamoyl-4 α -hydroxydihydroagarofuran**

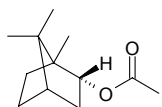
$C_{35}H_{40}O_8$ (588.70). Amorphous powder, $[\alpha]_D^{25} = +198.0^\circ$ ($c = 0.3$, MeOH). **Source:** NAN RI BEN LEI GONG TENG *Tripterygium doianum*. **Ref:** 1916.

**335 Acetyl blancoxanthone**

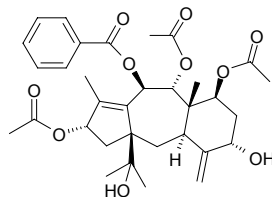
$C_{25}H_{24}O_6$ (420.47). Yellowish powder. **Source:** *Calophyllum blancoi* (root). **Ref:** 4441.

**336 Acetylborneol**

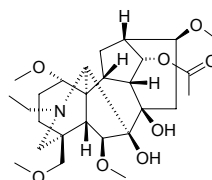
1,7,7-Trimethyl-acetate-endobicyclo[2.2.1]heptan-2-ol [76-49-3] $C_{12}H_{20}O_2$ (196.29). mp 26.5–29.0°C, bp 225–226°C. **Source:** HOU PO *Magnolia officinalis*, HUANG HUA HAO *Artemisia annua*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*. **Ref:** 1, 2, 6, 660.

**337 13-Acetylbrevifoliosol**

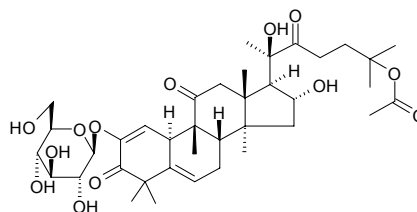
$C_{33}H_{42}O_{10}$ (598.70). $[\alpha]_D = +8^\circ$ (MeOH). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. **Ref:** 662.

**338 Acetylbrowniine**

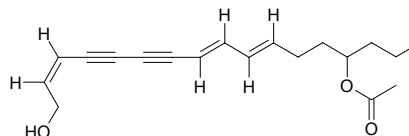
[65601-04-9] $C_{27}H_{43}NO_8$ (509.65). **Pharm:** Ileal smooth muscle stimulant (gpg, 0.2mmol/L). **Source:** XI SHAN CUI QUE *Delphinium oreophilum*, LIANG SI FEI YAN CAO *Consolida ambigua*. **Ref:** 658.

**339 25-O-Acetylbryoamaride**

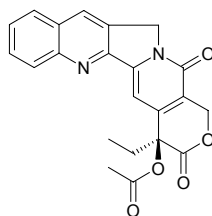
$C_{38}H_{56}O_{13}$ (720.86). Pale yellow amorphous solid, $[\alpha]_D = -61.0^\circ$ ($c = 0.94$, $CHCl_3$). **Source:** FENG GUA *Gymnopetalum integrifolium* (fruit). **Ref:** 4189.

**340 Acetyl-bupleurotoxin**

$C_{19}H_{24}O_3$ (300.40). Colorless lamellar crystals, mp 48°C, $[\alpha]_D^{18} = -10^\circ$ ($c = 0.04$, methanol). **Pharm:** Toxin. **Source:** DA YE CHAI HU *Bupleurum longiradiatum*. **Ref:** 81.

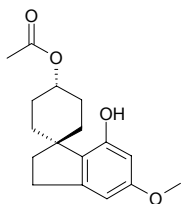
**341 20-O-Acetylcamptothecin**

$C_{22}H_{18}N_2O_5$ (390.40). **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 4097.

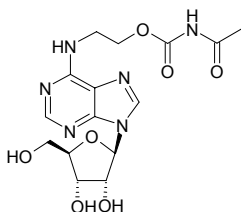


342 Acetyl cannabispipol

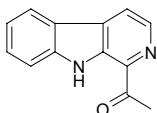
$C_{17}H_{22}O_4$ (290.36). Source: MA YE *Cannabis sativa*. Ref: 660.

**343 N^6 -[β -(Acetylcarbamoyloxy)ethyl] adenosine**

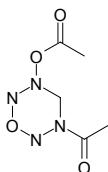
$C_{15}H_{20}N_6O_7$ (396.36). White crystal powder. Source: REN GONG YONG CHONG CAO *Cordyceps militaris* cv. Ref: 858.

**344 1-Acetyl- β -carboline**

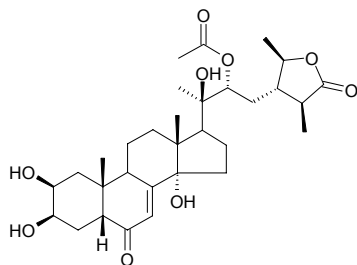
[50892-83-6] $C_{13}H_{10}N_2O$ (210.24). Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**345 3-Acetyl-5-carbomethoxy-2H-3,4,5,6-tetrahydro-1-oxa-2,3,5,6-tetrazine**

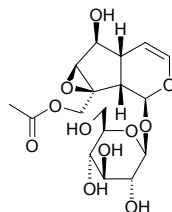
$C_5H_{10}N_4O_4$ (190.16). Source: XIAN MAO *Curculigo orchioides*. Ref: 660.

**346 22-Acetylasterone**

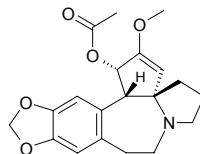
$C_{31}H_{46}O_9$ (562.71). White amorphous solid, mp 212~214°C, $[\alpha]_D^{25} = +111.7^\circ$ ($c = 0.007$, $CHCl_3$). Source: TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole plant). Ref: 4483.

**347 Acetylcatalpol**

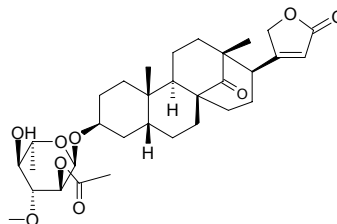
$C_{17}H_{24}O_{11}$ (404.37). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**348 Acetylcephalotaxine**

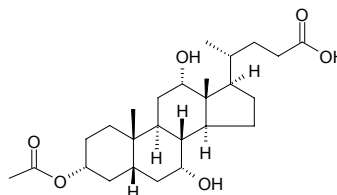
[24274-60-0] $C_{20}H_{23}NO_5$ (357.41). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**349 2'-O-Acetyl cerleaside A**

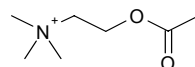
$C_{32}H_{46}O_9$ (574.72). White solid, mp 209~211°C, $[\alpha]_D^{26} = -62.50^\circ$ ($c = 0.0016$, $CHCl_3$). Pharm: Cytotoxic (KB, $ED_{50} = 7.56\mu g/mL$; BC, $ED_{50} = 4.62\mu g/mL$; NCI-H187, $ED_{50} = 7.42\mu g/mL$; control Ellipticine, $ED_{50} = 0.3\text{--}0.6\mu g/mL$)^[3777]. Source: AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed), NIU XIN QIE ZI *Cerbera manghas*. Ref: 2594, 3777.

**350 Acetylcholic acid**

$C_{26}H_{42}O_6$ (450.62). Source: XIANG DAN *Elephas maximus*. Ref: 6.

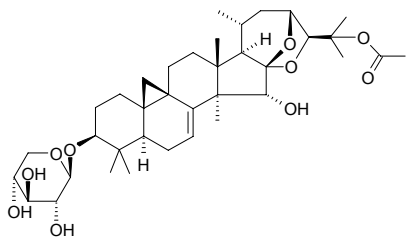
**351 Acetylcholine**

O-Acetylcholine [51-84-3] $C_7H_{16}NO_2^+$ (146.21). Source: FENG MI *Apis cerana*, FENG RU *Apis cerana*, JI CAI *Capsella bursa-pastoris*, MAI JIAO *Claviceps purpurea*, SHAN ZHA *Crataegus pinnatifida*, SHAN ZHA YE *Crataegus pinnatifida*, SHI QI *Diospyros kaki*, XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 6, 660.

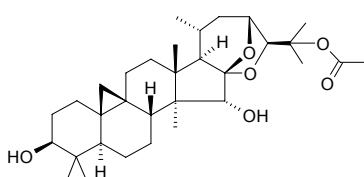


352 Acetylcimifugoside

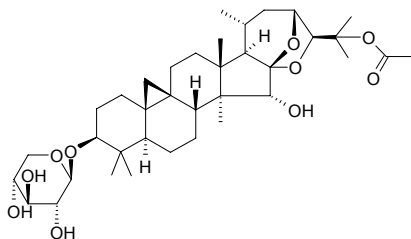
25-*O*-Acetyl-7,8-didehydrocimigenol 3-*O*- β -D-xylopyranoside C₃₇H₅₆O₁₀ (660.85). Source: XING AN SHENG MA *Cimicifuga dahurica* (rhizome), YE SHENG MA *Cimicifuga simplex*. Ref: 6, 4140.

**353 25-*O*-Acetylcimigenol**

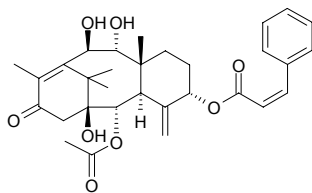
C₃₇H₅₀O₆ (530.75). mp 193~194°C. Source: SAN MIAN DAO *Cimicifuga acerina*. Ref: 6.

**354 25-*O*-Acetylcimigenoside**

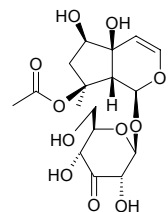
C₃₇H₅₈O₁₀ (662.87). mp 234~235°C. Source: SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*. Ref: 6.

**355 2-*O*-Acetyl-5-*O*-cinnamoyltaxicin I**

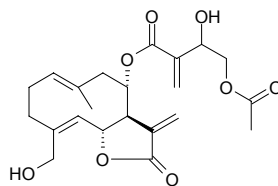
C₃₁H₃₈O₈ (538.64). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**356 8-*O*-Acetylclandonoside**

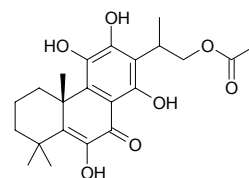
8-*O*-Acetylharpagide-aglucone-1-*O*- β -D-ribohexo-3-ulopyranoside [239449-45-7] C₁₇H₂₄O₁₁ (404.37). White amorphous powder. Source: ZHAO JIAO YOU⁽²⁾ *Caryopteris clandonensis*. Ref: 2312.

**357 4'-Acetylenicin**

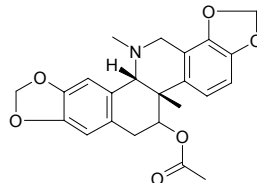
C₂₂H₂₈O₈ (420.46). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.125 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 0.06 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 0.125 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 0.125 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrochloron*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 0.125 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.125 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). Source: *Centaurea thessala* ssp. *drakiensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

**358 16-*O*-Acetylcoleon C**

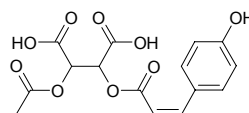
C₂₂H₂₈O₇ (404.46). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00021% dw). Ref: 4625.

**359 Acetylcorynoline**

C₂₃H₂₃NO₆ (409.44). mp 157~159°C. Source: KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 5 origins = 0.032%~0.059%, mean content = 0.058%^[5508]), YUN QIAN HU *Peucedanum rubricaulis*, ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6, 436, 5501, 5508.

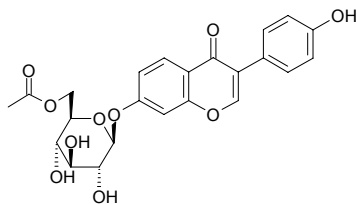
**360 2-*O*-Acetyl-3-(*p*-coumaroyl)-*meso*-tartaric acid**

C₁₅H₁₄O₉ (338.27). Source: BO CAI *Spinacia oleracea*. Ref: 6.

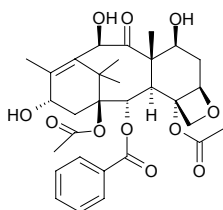


361 6"-O-Acetylaidzin

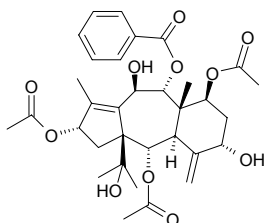
Daidzein 7-O-β-D-(6"-O-acetylglucopyranoside) [71385-83-6] C₂₇H₂₂O₁₀ (458.43). Needles, mp 186~189°C. **Pharm:** Phyto-estrogen; antioxidant. **Source:** DOU YOU *Glycine max*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.036%dw)^[4630]. **Ref:** 2200, 4630.

**362 1-Acetyl-10-deacetylbaaccatin III**

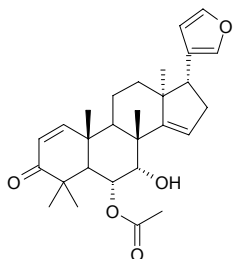
C₃₁H₃₈O₁₁ (586.64). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis*. **Ref:** 662.

**363 13-Acetyl-9-deacetyl-9-benzoyl-10-debenzoyltaxchinin A**

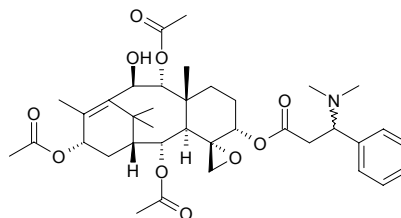
C₃₃H₄₂O₁₁ (614.70). mp 121~122°C, [α]_D = -14.9° (CHCl₃). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**364 6α-O-Acetyl-7-deacetylnimocinol**

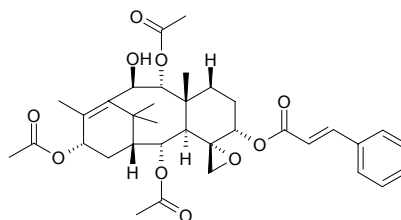
24,25,26,27-Tetra-norapotirucalla-(apoeupha)-6α-acetoxy-7α-hydroxy-1,14,20,22-tetraen-21,23-epoxy-3-one C₂₈H₃₆O₅ (452.60). Slender rods (MeOH), mp 60~62°C, [α]_D²⁷ = +6.6° (c = 0.12, CHCl₃). **Pharm:** Insecticidal (*Aedes aegypti*, 21.0mg/L, mean mortalities = 50%, Range = (41.84~58.15)%; 31.5 mg/L, mean mortalities = 62%, Range = (56.84~67.16)%; 42.0 mg/L, mean mortalities = 72%, Range = (66.84~77.16)%; 52.5 mg/L, mean mortalities = 84%, Range = (77.68~90.32)%; 63.0 mg/L, mean mortalities = 92%, Range = (86.84~97.16)%). **Source:** YIN DU LIAN *Azadiractica indica* (fresh leaf). **Ref:** 3914.

**365 9α-Acetyl-10β-deacetyl-spicataxine**

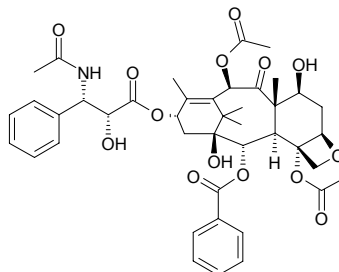
[126585-91-9] C₃₇H₅₁NO₁₀ (669.82). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

**366 9α-Acetyl-10β-deacetyl-spicataine**

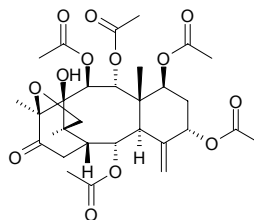
[126617-15-0] C₃₅H₄₄O₁₀ (624.73). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

**367 N-Acetyl-N-debenzoyltaxol**

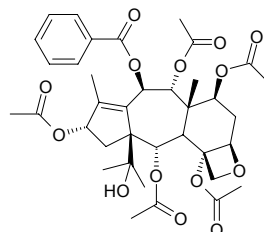
C₄₂H₄₉NO₁₄ (791.86). Gum. **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). **Ref:** 3958.

**368 5α-Acetyl-5α-decinnamoyltaxagifine**

C₃₀H₄₀O₁₃ (608.65). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

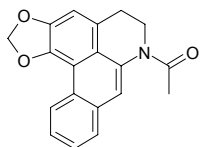
**369 13-Acetyl-13-decinnamoyltaxchinin B**

C₃₇H₄₆O₁₄ (718.77). mp 243~244°C, [α]_D = -54° (CHCl₃). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

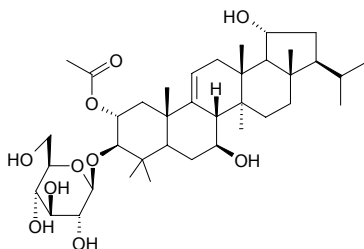


370 N-Acetyldehydroanonaine

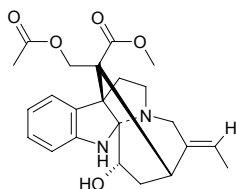
$C_{19}H_{15}NO_3$ (305.34). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO YE *Zanthoxylum simulans*. **Ref:** 2176.

**371 2-O-Acetyl-28-dehydroxy-rubianoside IV**

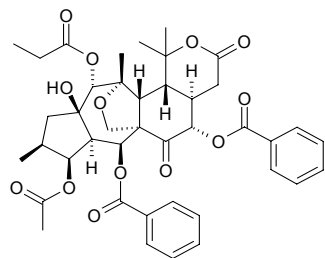
$C_{38}H_{62}O_{10}$ (678.91). **Pharm:** Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (5.8 \pm 3.8)%; control *L*-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase inhibitor inactive (rat basophilic cell RBL-2H3, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (-15.4 \pm 1.4)%). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**372 22-O-Acetyl-N₆-demethyl-echitamine**

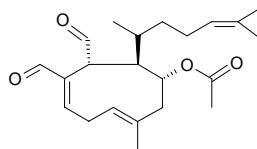
$C_{23}H_{28}N_2O_5$ (412.49). White acicular crystals, mp 234°C. **Source:** PEN JIA SHU *Winchia calophylla*. **Ref:** 270.

**373 3-Acetyl-5 β ,8 α -dibenzylformyl-14-propanoyl myrsinoltype diterpene with C9-C10 cyclized to form an additional lactone ring**

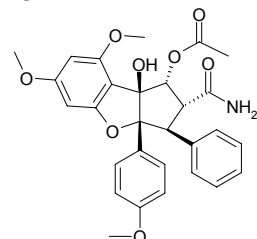
$C_{41}H_{46}O_{13}$ (746.82). White acicular crystals, mp 276–278°C. **Source:** TU GUA LANG DU *Euphorbia prolifera*. **Ref:** 807.

**374 4 α -Acetyldictyodial**

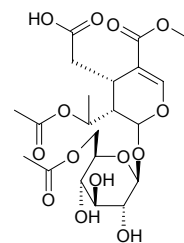
$C_{20}H_{32}O_4$ (360.50). Colorless oil, $[\alpha]_D^{20} = -163.6^\circ$ ($c = 0.30$, CH_2Cl_2). **Source:** XIAN ZHUANG WANG DI ZAO *Dictyota linearis*. **Ref:** 3818.

**375 1-O-Acetyl-N,N-didemethylcroglamide**

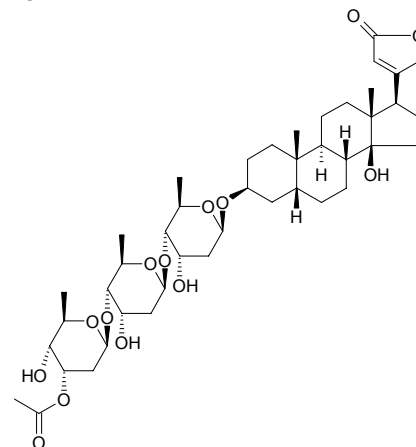
[259143-57-2] $C_{29}H_{29}NO_8$ (519.56). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 1.97mg/L, EC₅₀ = 0.14mg/L; control Azadirachtin, LC₅₀ = 0.9mg/L, EC₅₀ = 0.04mg/L). **Source:** *Aglaia duperreana*. **Ref:** 2376.

**376 6'-O-Acetyldideroside**

6'-Acetyl- β -D-glucopyranosyldideroside $C_{21}H_{30}O_{14}$ (506.46). Amorphous powder, $[\alpha]_D^{25} = -76.5^\circ$ ($c = 1.0$, MeOH). **Pharm:** Antitrypanosomal (trypomastigotes of *Trypanosoma cruzi*, *in vitro*, IC₅₀ = 90.2 μ g/mL, control Gentian violet, IC₅₀ = 7.5 μ g/mL). **Source:** *Calycophyllum spruceanum*. **Ref:** 3439.

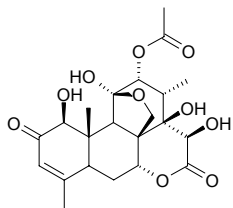
**377 α -Acetyldigitoxin**

[1111-39-3] $C_{43}H_{66}O_{14}$ (809.96). White, tiny lamellar crystal powder, mp 217–221°C, $[\alpha]_D^{20} = +5^\circ$ ($c = 0.7$, pyridine). **Pharm:** Cardiotonic (same action and usage as digitoxin). **Source:** MAO HUA MAO DI HUANG *Digitalis lanata*. **Ref:** 661.

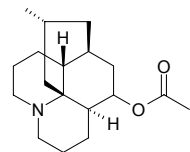


378 12-Acetyl-13,21-dihydroeurycomanone

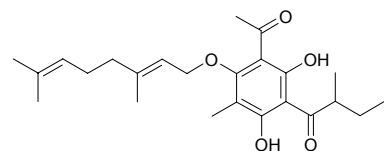
$C_{22}H_{28}O_{10}$ (452.46). **Pharm:** Cytotoxic (P₃₈₈ cells, IC₅₀ = 0.94 μg/mL). **Source:** *Eurycoma* sp. **Ref:** 4556.

**379 O-Acetyl-dihydrolycopodine**

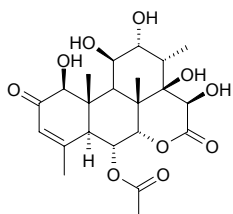
$C_{18}H_{29}NO_2$ (291.44). **Source:** YU BAI SHI SONG *Lycopodium obscurum*. **Ref:** 660.

**380 2-Acetyl-3,5-dihydroxy-1-geranoxy-6-methyl-4-(2-methyl)butyrylbenzene**

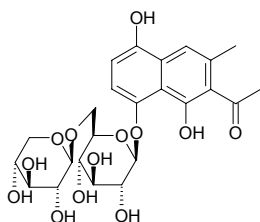
$C_{24}H_{34}O_5$ (402.54). Colorless oil, $[\alpha]_D^{31.2} = -7.02^\circ$ ($c = 0.057$, MeOH). **Source:** DI ER CAO *Hypericum japonicum*. **Ref:** 762.

**381 6α-Acetyl-14β,15β-dihydroxyklaineanone**

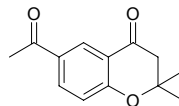
$C_{22}H_{30}O_{10}$ (454.48). **Source:** *Eurycoma* sp. **Ref:** 4556.

**382 2-Acetyl-1,5-dihydroxy-3-methyl-8-O(β-xylopyranosyl-(1→6)-O-(β-glucopyranosyl)) naphthalene**

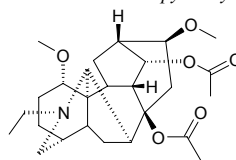
$C_{24}H_{30}O_{13}$ (526.50). **Source:** TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). **Ref:** 5214.

**383 6-Acetyl-2,2-dimethylchroman-4-one**

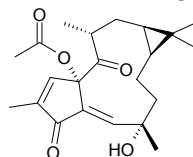
$C_{13}H_{14}O_3$ (218.25). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μg/mL, 100 μmol/L AA-induced, AggRt = 100%, control 50 μmol/L Aspirin, AggRt = 100%; 10 μg/mL collagen-induced, AggRt = 11.1%, 100 μmol/L Aspirin, AggRt = 4.9%; 0.1 U/mL thrombin-induced, AggRt = 6.7%, 100 μmol/L Aspirin, AggRt = 1.7%; 2 ng/mL PAF-induced, AggRt = 16.8%, 100 μmol/L Aspirin, AggRt = 2.1%). **Source:** SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). **Ref:** 5427.

**384 8-Acetyldolaconine**

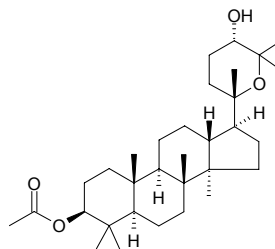
[132160-38-4] $C_{26}H_{39}NO_6$ (461.60). Wax solid. **Source:** WAN ZHUO WU TOU *Aconitum campylorrhynchum*. **Ref:** 158.

**385 15-O-Acetyl-15-epi-(4E)-jatrogrossidentadione**

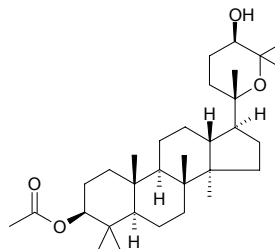
$C_{22}H_{30}O_5$ (374.48). Semi solid, $[\alpha]_D^{25} = -165.2^\circ$ ($c = 0.5$, CHCl₃). **Source:** MA FENG SHU *Jatropha curcas* (aerial parts). **Ref:** 4287.

**386 3β-Acetyl-20,25-epoxydammarane-24α-ol**

$C_{32}H_{54}O_4$ (502.78). White amorphous solid, $[\alpha]_D = 22.7^\circ$ ($c = 0.022$, CHCl₃). **Source:** LIAN QIAO *Forsythia suspensa*. **Ref:** 753.

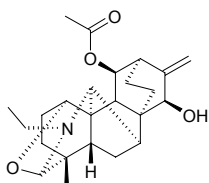
**387 3β-Acetyl-20,25-epoxydammarane-24β-ol**

$C_{32}H_{54}O_4$ (502.78). White gum, $[\alpha]_D = 81^\circ$ ($c = 0.05$, CHCl₃). **Source:** LIAN QIAO *Forsythia suspensa*. **Ref:** 753.

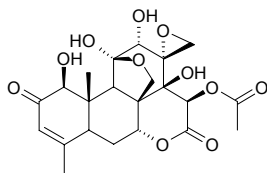


388 11-Acetyl-1,19-epoxydenudatine

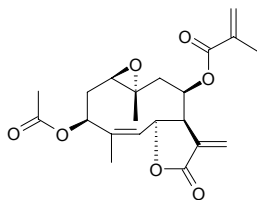
$C_{24}H_{33}NO_4$ (399.53). Colorless needles, mp 201~202°C (acetone). Source: JI LIN WU TOU *Aconitum kirinense*. Ref: 2515.

**389 15-Acetyl-13 α (21)-epoxyeurycomanone**

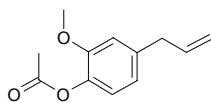
$C_{22}H_{26}O_{11}$ (466.45). Source: *Eurycoma* sp. Ref: 4556.

**390 Acetylerioflorin**

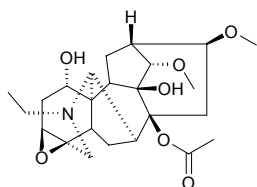
$C_{21}H_{26}O_7$ (390.44). Source: *Viguiera eriophora* ssp. *eriphora* (aerial parts). Ref: 5090.

**391 Acetyleugenol**

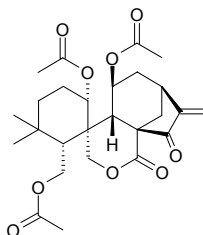
Eugenyl acetate [93-28-7] $C_{12}H_{14}O_3$ (206.24). mp 30~31°C, bp 281~282°C/752mmHg. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*] (dried bud, content scope = 1.12%~2.72%^[5501]), YUE GUI ZI *Laurus nobilis*. Ref: 6, 660, 5501.

**392 8-Acetylcelsine**

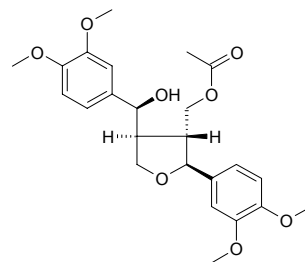
$C_{24}H_{35}NO_7$ (449.55). White resinoid solid. Source: JI LIN WU TOU *Aconitum kirinense*. Ref: 2515.

**393 Acetylexidonin**

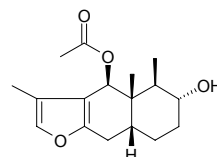
Acetylraabosin B $C_{26}H_{34}O_9$ (490.56). mp 165~167°C. Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucoalyx*. Ref: 4067.

**394 9'-O-Acetyl-(7R,8S,7R,8S)-(-)-fargesol**

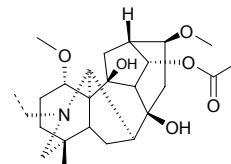
$C_{24}H_{30}O_8$ (446.50). Colorless oil, $[\alpha]_D^{21.2} = +35.2^\circ$ ($c = 1.20$, $CHCl_3$). Source: ZHOU YE MU LAN *Magnolia praecocissima* (seed). Ref: 4181.

**395 6-Acetylfuranofukinol**

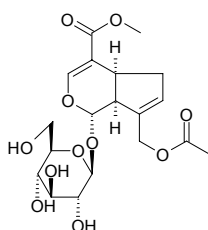
$C_{17}H_{24}O_4$ (292.38). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**396 14-Acetylgenicunine B**

$C_{25}H_{39}NO_6$ (449.59). Amorphous solid, $[\alpha]_D^{20} = +24.2^\circ$ ($c = 0.55$, $CHCl_3$). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

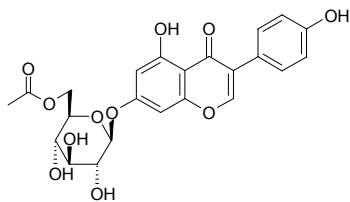
**397 10-O-Acetylgeniposide**

$C_{19}H_{26}O_{11}$ (430.41). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 660, 626.

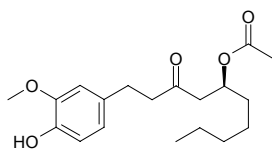


398 6"-O-Acetylgenistin

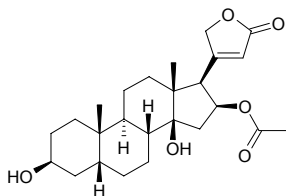
Genistein 7-O- β -D-(6"-O-acetylglucopyranoside) [73566-30-0] C₂₃H₂₂O₁₁ (474.43). Needles, mp 185~186°C. **Pharm:** Phyto-estrogen; antioxidant. **Source:** DOU YOU *Glycine max*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.039%dw)^[4630]. **Ref:** 2200, 4630.

**399 6-Acetyl gingerol**

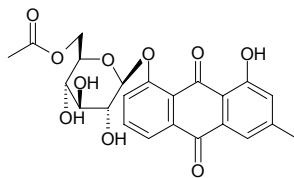
C₁₉H₂₈O₅ (336.43). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 660.

**400 16-Acetylgenitoxigenin**

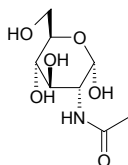
Oleandrigenin [465-15-6] C₂₅H₃₆O₆ (432.56). Crystals (Me₂CO-Et₂O), mp 225~228°C, [α]_D¹⁶ = -9.5° (MeOH). **Source:** JIA ZHU TAO *Nerium indicum*, QING MING HUA *Beaumontia grandiflora*. **Ref:** 6, 660, 1521.

**401 8-O- β -D-(6'-O-Acetyl)glucopyranosylchrysophanol**

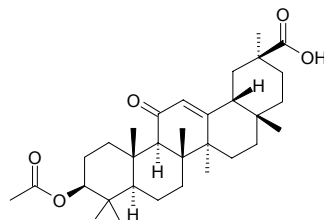
C₂₃H₂₂O₁₀ (458.43). **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). **Ref:** 4273.

**402 N-Acetyl-D-glucosamine**

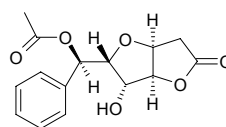
2-Acetyl-amino-2-deoxy-D-glucose [7512-17-6] C₈H₁₅NO₆ (221.21). **Source:** MA YE *Cannabis sativa*, XIE KE *Eriocher sinensis*, YUAN ZHI *Polygala tenuifolia*. **Ref:** 2, 6, 660.

**403 3-O-Acetyl-glycyrrhetic acid**

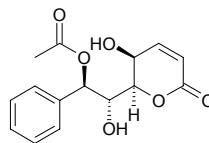
Glycyrrhetic acid acetate C₃₂H₄₈O₅ (512.74). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2.

**404 8-Acetyl goniofufurone**

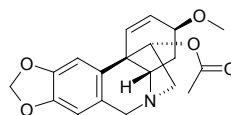
(4*S*,5*R*,6*S*,7*S*,8*R*)-6-Hydroxy-7-(α -acetoxybenzyl)-tetrahydrofuro[3,2-*b*]furan-2-one C₁₅H₁₆O₆ (292.29). Colorless prismatic crystals (acetone), mp 188~189°C. **Pharm:** Antineoplastic. **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 667.

**405 8-O-Acetylgoniotriol**

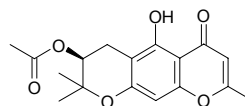
C₁₅H₁₆O₆ (292.29). [α]_D²⁰ = +66.0° (c = 0.39, MeOH). **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 5453.

**406 11-O-Acetyl haemanthamine**

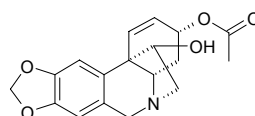
C₁₉H₂₁NO₅ (343.38). mp. 92~96°C, [α]_D²² = 9.1° (c = 0.55, MeOH). **Source:** YI BI LI YA SHUI XIAN *Narcissus bujei*. **Ref:** 1887.

**407 3'-O-Acetylhamaudol**

C₁₇H₁₈O₆ (318.33). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. **Ref:** 2.

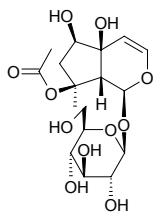
**408 3-O-Acetylhamayne**

C₁₈H₁₉NO₅ (329.36). **Pharm:** AChE inhibitor (IC₅₀ = (594±8)μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2)μmol/L). **Source:** LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. **Ref:** 4952.

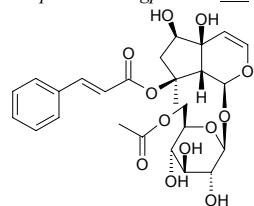


409 8-Acetylharpagide

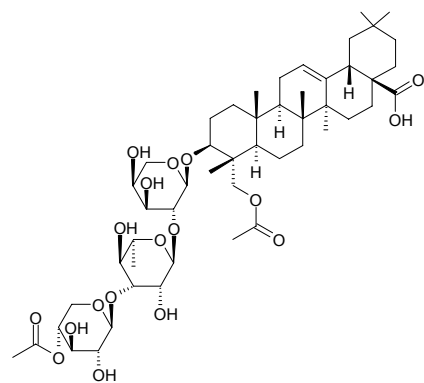
8-*O*-Acetylharpagide C₁₇H₂₆O₁₁ (406.39). White powder. Pharm: Antineoplastic (mus-skin *in vivo*, strongly inhibits EBV-EA induction). Source: BAI MAO XIA KU CAO *Ajuga decumbens*, BO SI YI MU CAO *Leonurus persicus*, LI ZHI HAO *Ajuga forrestii*, LONG TU ZHU *Clerodendrum thomsonae*, PU FU JIN GU CAO *Ajuga reptans*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole plant). Ref: 660, 693, 1521, 2499, 4483.

**410 6'-*O*-Acetylharpagoside**

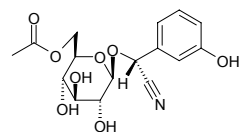
C₂₆H₃₂O₁₂ (536.54). White amorphous powder. Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 781.

**411 23-*O*-Acetylhederagenin 3-*O*-(4-*O*-acetyl-β-*D*-xylopyranosyl)-(1→3)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranoside**

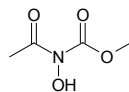
C₅₀H₇₈O₁₈ (967.17). White amorphous powder, [α]_D²² = -10.4° (*c* = 0.7, MeOH). Source: AO TOU WU HUAN ZI *Sapindus emarginatus* (pericarp). Ref: 4123.

**412 6-Acetyl holocalin**

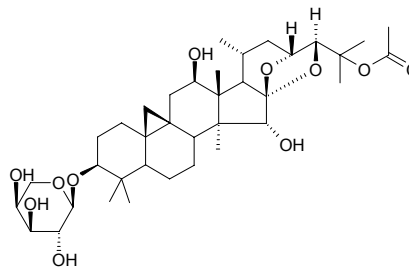
C₁₆H₁₉NO₈ (353.33). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, StRt/InRt < 10%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, InRt = (10~30)%; *Raphanus sativus*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, StRt/InRt < 10%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, StRt/InRt < 10%; *Allium cepa*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, InRt = (10~30)%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, StRt/InRt < 10%). Source: XI YANG JIE GU MU *Sambucus nigra*. Ref: 5217.

**413 *N*-Acetyl-*N*-hydroxy-2-carbamic acid methyl ester**

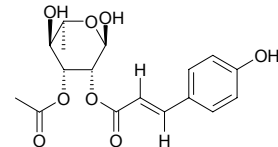
C₄H₇NO₄ (133.10). Source: XIAN MAO *Curculigo orchoides*. Ref: 660.

**414 25-*O*-Acetyl-12β-hydroxycimigenol 3-*O*-α-*L*-arabinopyranoside**

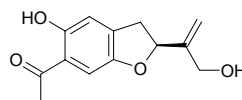
C₃₇H₅₈O₁₁ (678.87). Amorphous solid, [α]_D²⁶ = +26.0° (*c* = 0.10, MeOH). Pharm: Cytotoxic (HSC-2 cells, IC₅₀ = 142 μmol/L, control Etoposide, IC₅₀ = 24 μmol/L; HGF cells, IC₅₀ = 271 μmol/L). Source: ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). Ref: 4158.

**415 3-*O*-Acetyl-2-*O*-(*p*-hydroxycinnamoyl)-α-*L*-rhamnose**

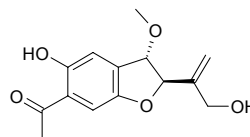
Ningposide C C₁₇H₂₀O₈ (352.34). Oil, [α]_D³⁰ = +79.63° (*c* = 0.38, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 674, 741.

**416 6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-2,3-dihydrobenzofuran**

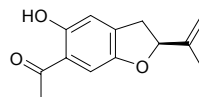
Viscidone C₁₃H₁₄O₄ (234.25). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*, NIAN ZHI JIN ZHI JU *Chrysothamnus viscidiflorus*. Ref: 5374.

**417 6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-3-methoxy-2,3-dihydrobenzofuran**

C₁₄H₁₆O₅ (264.28). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.

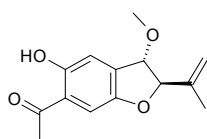
**418 6-Acetyl-5-hydroxy-2-isopropenyl-2,3-dihydrobenzofuran**

C₁₃H₁₄O₃ (218.25). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*, *Trichocline reptans*. Ref: 5374.

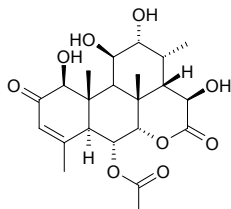


419 6-Acetyl-5-hydroxy-2-isopropenyl-3-methoxy-2,3-dihydrobenzofuran

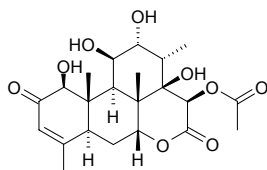
$C_{14}H_{16}O_4$ (248.28). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyriformis*, *Acritopappus* spp. Ref: 5374.

**420 6 α -Acetyl-15 β -hydroxyklaineanone**

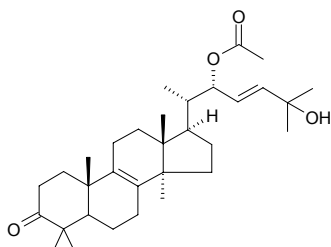
$C_{22}H_{30}O_9$ (438.48). Source: *Eurycoma* sp. Ref: 4556.

**421 15 β -O-Acetyl-14-hydroxyklaineanone**

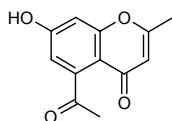
$C_{22}H_{30}O_9$ (438.48). Pharm: Plant growth inhibitor (Cucumber seedling, root growth, $IC_{50} = (17.6 \pm 0.5) \mu\text{mol/L}$, shoot growth, $IC_{50} > 200 \mu\text{mol/L}$; Rice seedling, root growth, $IC_{50} > 200 \mu\text{mol/L}$, shoot growth, $IC_{50} > 200 \mu\text{mol/L}$)^[5215]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. Ref: 4556, 5215.

**422****(20S,22S,23E)-22-O-Acetyl-25-hydroxylanosta-8,23(E)-dien-3-one**

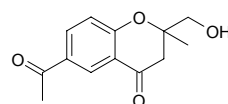
$C_{32}H_{50}O_4$ (498.75). mp 166~168°C, $[\alpha]_D^{31} = +62.1^\circ$ ($c = 0.15$, CHCl_3). Pharm: Anti-HSV-1 ($IC_{50} = 5.2 \mu\text{g/mL}$; control Acyclovir, $IC_{50} = 2.0\text{--}5.0 \mu\text{g/mL}$); cytotoxic inactive (hmn small cell lung cancer cells NCI-H187). Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 5406.

**423 5-Acetyl-7-hydroxy-2-methylbenzopyran- γ -one**

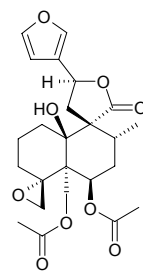
$C_{12}H_{10}O_4$ (218.21). Source: DA HUANG *Rheum officinale*. Ref: 2.

**424 6-Acetyl-2-hydroxymethyl-2-methylchroman-4-one**

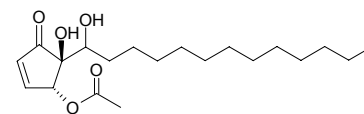
$C_{13}H_{14}O_4$ (234.25). $[\alpha]_D^{25} = +10.8^\circ$ ($c = 0.1$, CHCl_3). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, 100 $\mu\text{g/mL}$, 100 $\mu\text{mol/L}$ AA-induced, AggRt = 10.3%, control 50 $\mu\text{mol/L}$ Aspirin, AggRt = 100%; 10 $\mu\text{g/mL}$ collagen-induced, AggRt = 1.9%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 4.9%; 0.1U/mL thrombin-induced, AggRt = 4.9%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 1.7%; 2ng/mL PAF-induced, AggRt = 3.6%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 2.1%). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.

**425 6-Acetyl-10-hydroxyteucjaponin B**

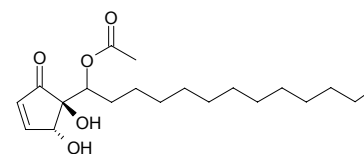
10-Hydroxymontanin C $C_{24}H_{30}O_9$ (462.50). White amorphous solid, $[\alpha]_D^{25} = +35.2^\circ$ ($c = 0.13$, CHCl_3). Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = 10 $\mu\text{g/cm}^2$, $FR_{50} = 0.08 \pm 0.01$, dose = 1 $\mu\text{g/cm}^2$, $FR_{50} = 0.16 \pm 0.02$). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

**426 4-O-Acetyl hygrophorone A¹²**

4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one $C_{20}H_{34}O_5$ (354.49). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20 μg , IZA = 188 mm^2 , 40 μg , IZA = 217 mm^2). Source: *Hygrophorus persoonii*. Ref: 3800.

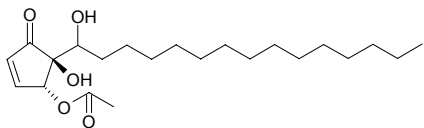
**427 6-O-Acetyl hygrophorone A¹²**

4,5-*trans*-4,5-Dihydroxy-5-(1-acetoxytridecyl)-2-cyclopenten-1-one $C_{20}H_{34}O_5$ (354.49). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

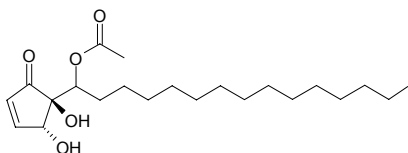


428 4-O-Acetyl hygrophorone A¹⁴

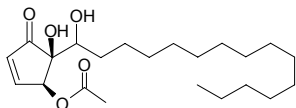
4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**429 6-O-Acetyl hygrophorone A¹⁴**

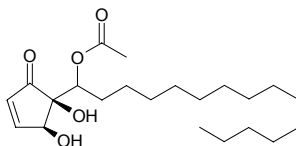
4,5-*trans*-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**430 4-O-Acetyl hygrophorone B¹⁴**

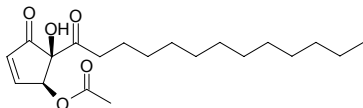
4,5-*cis*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**431 6-O-Acetyl hygrophorone B¹⁴**

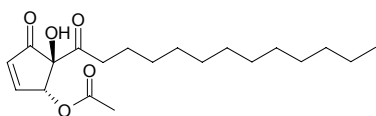
4,5-*cis*-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**432 4-O-Acetyl hygrophorone C¹²**

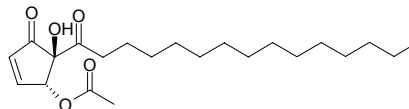
cis-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one C₂₀H₃₂O₅ (352.48). White solid. Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 86mm², 40µg, IZA = 148mm²). Source: *Hygrophorus pustulatus*. Ref: 3800.

**433 4-O-Acetyl hygrophorone D¹²**

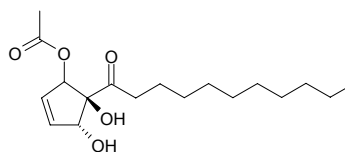
trans-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one C₂₀H₃₂O₅ (352.48). Color oil, [α]_D²³ = +111.7° (c = 0.470, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 55mm², 40µg, IZA = 82mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**434 4-O-Acetyl hygrophorone D¹⁴**

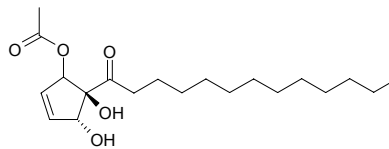
trans-4-Acetoxy-5-hydroxy-5-pentadecanoyl-2-cyclopenten-1-one C₂₂H₃₆O₅ (380.53). Colorless oil, [α]_D²³ = +98.7° (c = 0.475, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 14mm²; 40µg, IZA = 15mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**435 1-O-Acetyl hygrophorone E¹⁰**

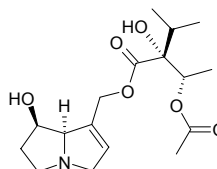
1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-undecan-1-one C₁₈H₃₀O₅ (326.44). Colorless oil. Source: *Hygrophorus latitabundus*. Ref: 3800.

**436 1-O-Acetyl hygrophorone E¹²**

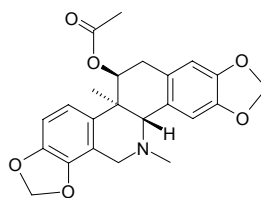
1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-tridecan-1-one C₂₀H₃₄O₅ (354.49). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 1mm²; 40µg, IZA = 28mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**437 Acetyлиндicine**

[11014-09-8] C₁₇H₂₇NO₆ (341.41). Source: DA WEI YAO *Heliotropium indicum*. Ref: 6.

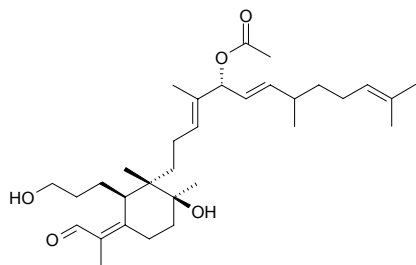
**438 Acetyliscorynoline**

[42881-67-4] C₂₃H₂₃NO₆ (409.44). mp 205–209°C. Source: YUN QIAN HU *Peucedanum rubricaulae*, ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6, 436.

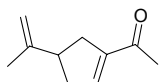


439 16-O-Acetyl isoiridogermanal

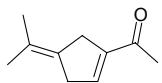
$C_{32}H_{52}O_5$ (516.77). Source: SHE GAN *Belamcanda chinensis*. Ref: 660.

**440 1-Acetyl-4-isopropenyl cyclopentene**

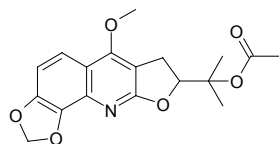
$C_{10}H_{14}O$ (150.22). Source: AN YE *Eucalyptus globulus* (oil), RU XIANG *Boswellia carterii*. Ref: 660, 1521.

**441 1-Acetyl-4-isopropylidene-cyclopentene**

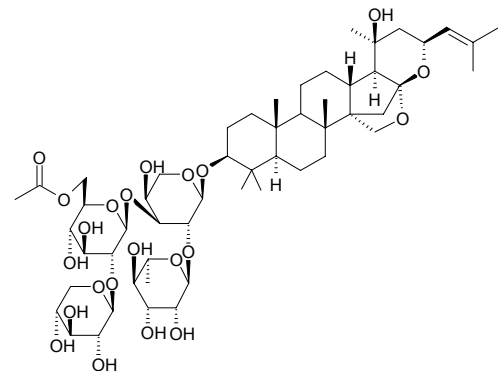
$C_{10}H_{14}O$ (150.22). Source: AN YE *Eucalyptus globulus*. Ref: 6.

**442 3'-O-Acetylisopteleflorine**

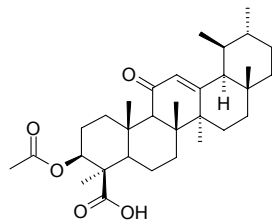
$C_{18}H_{19}NO_6$ (345.36). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00059% dw). Ref: 4774.

**443 Acetyljujuboside B**

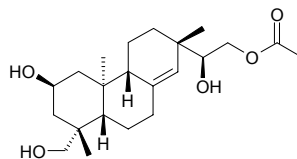
[194737-13-8] $C_{54}H_{86}O_{22}$ (1087.27). Colorless acicular crystals, (methanol–water), mp 207~210°C, $[\alpha]_D^{28} = -42.8^\circ$ ($c = 0.3$, methanol). Pharm: Antihistamine (inhibits histamine release, rat peritoneum cells *in vitro*, caused by antigen-antibody reaction, 100 μ mol/L InRt = 14.5 %). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 971.

**444 Acetyl-11-keto- β -boswellic acid**

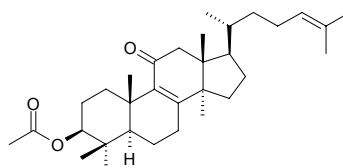
$C_{32}H_{48}O_5$ (512.74). Pharm: 5-LOX inhibitor (rat neutrophils, in a non-competitive and specific manner, $IC_{50} = 1.5 \mu$ mol/L). Source: RU XIANG *Boswellia carterii*. Ref: 4415.

**445 16-Acetylkirenenol**

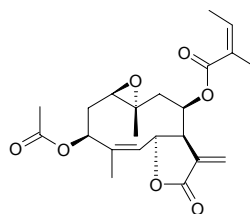
$C_{22}H_{36}O_5$ (380.53). Source: MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], XI XIAN *Siegesbeckia orientalis* (aerial part: yield = 0.0003%)^[4764]. Ref: 2, 660, 4764.

**446 3 β -Acetyl-5 α -lanosta-8,24-diene-11-one**

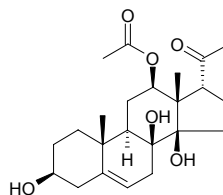
$C_{32}H_{50}O_3$ (482.75). mp 144~147°C. Source: SHUI TONG MU *Ficus fistulosa* [Syn. *Ficus harlandii*]. Ref: 1906.

**447 Acetyllepocarpin**

$C_{22}H_{28}O_7$ (404.46). Source: *Viguiera puruana* (aerial parts). Ref: 5090.

**448 12-O-Acetyllineolone**

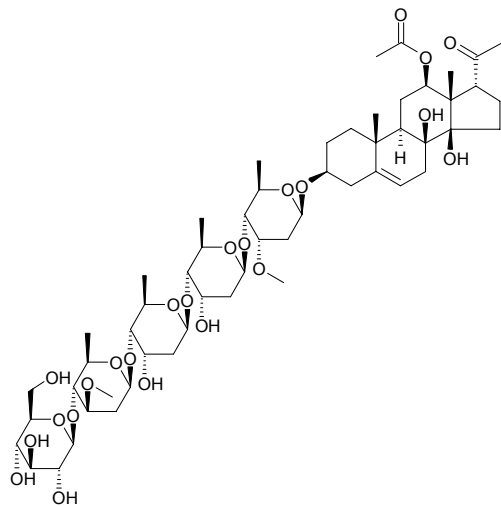
$C_{23}H_{34}O_6$ (406.52). Amorphous powder, $[\alpha]_D^{21} = -70.2^\circ$ ($c = 0.26$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



449 12-O-Acetyllineolon 3-O-β-D-glucopyranosyl-(1→4)-β-D-olean-dropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranoside

C₅₅H₈₈O₂₃ (1117.30). Amorphous powder, $[\alpha]_D^{27} = -10.0^\circ$ ($c = 1.01$, MeOH).

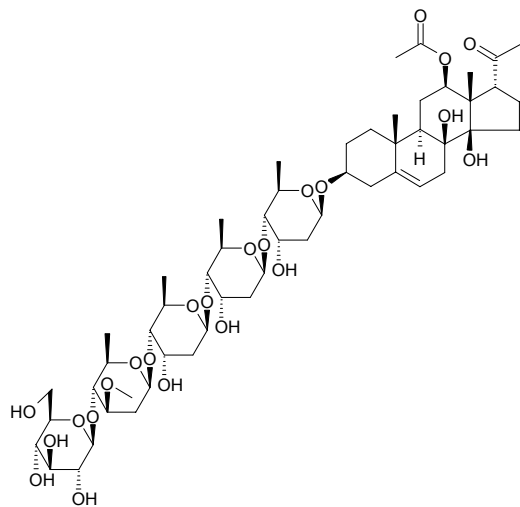
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



450 12-O-Acetyllineolon 3-O-β-D-glucopyranosyl-(1→4)-β-D-olean-dropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside

C₅₄H₈₆O₂₃ (1103.27). Amorphous powder, $[\alpha]_D^{27} = -13.8^\circ$ ($c = 1.47$, MeOH).

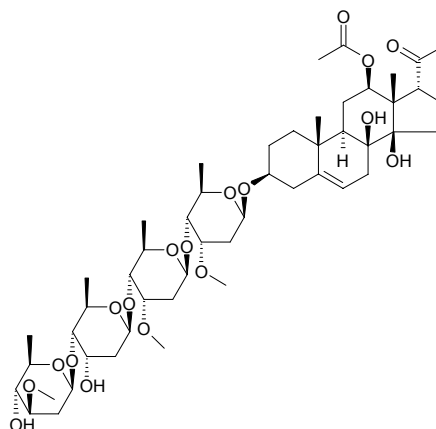
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



451 12-O-Acetyllineolon-3-O-β-D-olean-dropyranosyl-(1→4)-β-D-digi-toxopyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyrano-side

C₅₀H₈₀O₁₈ (969.18). Amorphous powder, $[\alpha]_D^{27} = -2.7^\circ$ ($c = 0.17$, MeOH).

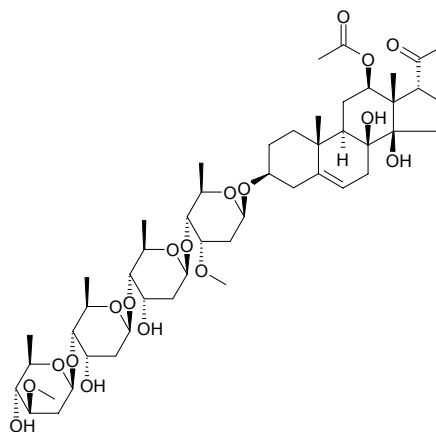
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



452 12-O-Acetyllineolon-3-O-β-D-olean-dropyranosyl-(1→4)-β-D-digi-toxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyrano-side

C₄₉H₇₈O₁₈ (955.16). Amorphous powder, $[\alpha]_D^{23} = -16.7^\circ$ ($c = 0.66$, MeOH).

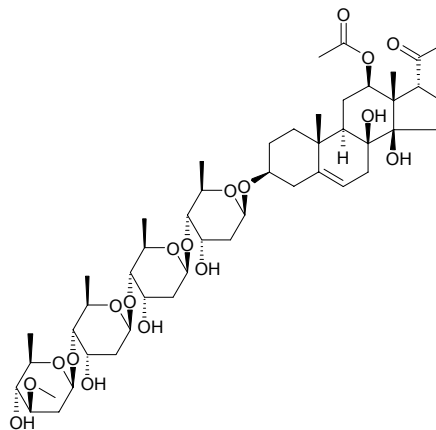
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



453 12-O-Acetyllineolon-3-O-β-D-olean-dropyranosyl-(1→4)-β-D-digi-toxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyrano-side

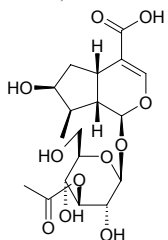
C₄₈H₇₆O₁₈ (941.13). Amorphous powder, $[\alpha]_D^{24} = +21.5^\circ$ ($c = 0.59$, MeOH).

Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

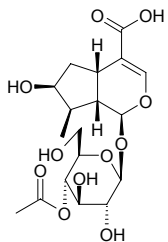


454 3'-O-Acetylloganic acid

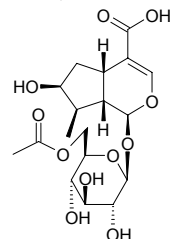
$C_{18}H_{26}O_{11}$ (418.40). White amorphous solid, $[\alpha]_D^{20} = -70.1^\circ$ ($c = 0.06$, MeOH). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 3492.

**455 4'-O-Acetylloganic acid**

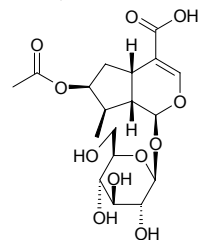
$C_{18}H_{26}O_{11}$ (418.40). White amorphous solid, $[\alpha]_D^{20} = -67.6^\circ$ ($c = 0.07$, MeOH). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 3492.

**456 6'-O-Acetylloganic acid**

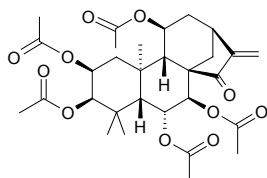
$C_{18}H_{26}O_{11}$ (418.40). White amorphous solid, $[\alpha]_D^{20} = -85.1^\circ$ ($c = 0.07$, MeOH). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 3492.

**457 7-O-Acetylloganic acid**

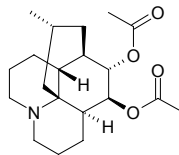
$C_{18}H_{26}O_{11}$ (418.40). White amorphous solid, $[\alpha]_D^{20} = -67.2^\circ$ ($c = 0.07$, MeOH). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 3492.

**458 7-Acetylshanrubescensin A**

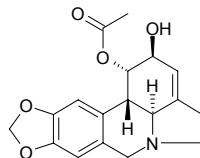
$C_{30}H_{40}O_{11}$ (576.65). mp 185–186°C, $[\alpha]_D^{22} = -54.5^\circ$ ($c = 0.46$, $CHCl_3$). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**459 Acetyllycoclavine**

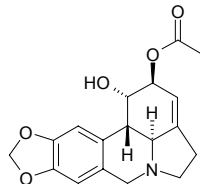
$C_{20}H_{31}NO_4$ (349.47). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**460 1-O-Acetyllycorine**

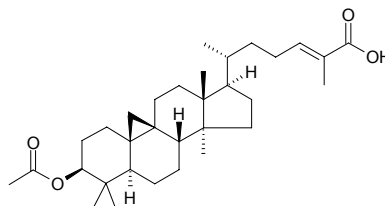
$C_{18}H_{19}NO_5$ (329.36). Pharm: AChE inhibitor ($IC_{50} = (0.96 \pm 0.04) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$). Source: *Crinum moorei*. Ref: 4952.

**461 2-O-Acetyllycorine**

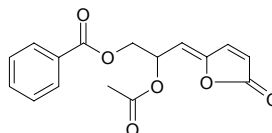
$C_{18}H_{19}NO_5$ (329.36). Pale yellow crystals, 224–225°C, $[\alpha]_D^{28} = +22^\circ$ ($c = 0.1$, EtOH). Source: XUE PIAN LIAN *Leucojum vernum* (bulb). Ref: 5026.

**462 3β-O-Acetyl-mangiferolic acid**

3β-Acetoxy-9,19-cyclolanost-24(E)-en-26-oic acid $C_{32}H_{50}O_4$ (498.75). Colorless acicular crystals, mp 180–182°C (petroleum spirit-acetic ester). Source: DI FENG PI *Illicium difengpi*. Ref: 395.

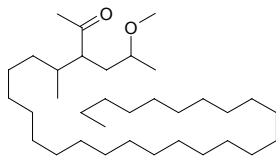
**463 Acetylmelodorinol**

$C_{16}H_{14}O_6$ (302.29). Pharm: Cytotoxic (BT474: $IC_{50} = 0.2 \mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 0.1 \mu\text{g/mL}$; CHAGO: $IC_{50} = 3.1 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3 \mu\text{g/mL}$; HepG2: $IC_{50} = 2.1 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9 \mu\text{g/mL}$; Kato3: $IC_{50} = 0.4 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.7 \mu\text{g/mL}$; SW 620: $IC_{50} = 0.3 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1 \mu\text{g/mL}$). Source: *Melodorum fruticosum* (flower). Ref: 5245.

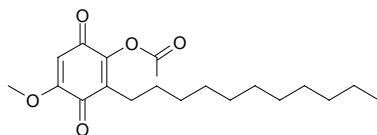


464 4-Acetyl-2-methoxy-5-methyltriacontane

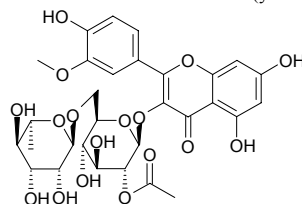
$C_{34}H_{68}O_2$ (508.92). Source: XIAN MAO *Curculigo orchoides*. Ref: 660.

**465 2-O-Acetyl-5-O-methylembelin**

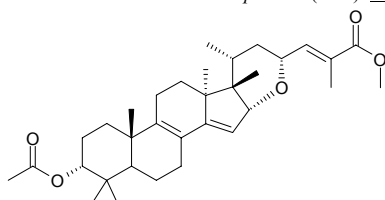
$C_{20}H_{30}O_5$ (350.46). Yellow amorphous powder. Pharm: Cytotoxic inactive (*in vitro*, HL-60, $IC_{50} > 100\mu\text{g/mL}$; Bel7402, $IC_{50} > 100\mu\text{g/mL}$; HeLa, $IC_{50} > 100\mu\text{g/mL}$; U937, $IC_{50} > 100\mu\text{g/mL}$; control Colchicine, HL-60, $IC_{50} = 1.6\mu\text{g/mL}$; Bel7402, $IC_{50} = 0.4\mu\text{g/mL}$; HeLa, $IC_{50} = 0.1\mu\text{g/mL}$; U937, $IC_{50} = 0.1\mu\text{g/mL}$). Source: LA ZHU GUO *Aegiceras corniculatum* (stem and twig; yield = 0.00019%). Ref: 4746.

**466 2''-O-Acetyl-3'-O-methylrutin**

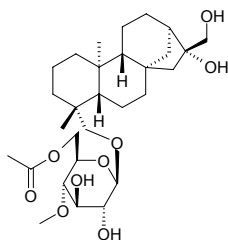
3'-O-Methylquercetin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)-2''-O-acetyl- β -D-glucopyranoside $C_{30}H_{34}O_{17}$ (666.6). Yellow powder, $[\alpha]_D^{27} = -13.0^\circ$ ($c = 1.0$, MeOH). Pharm: Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, $IC_{50} = 9.8\mu\text{mol/L}$; control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). Source: BAI MEI HUA *Prunus mume* (yield = 0.0008%fw). Ref: 4641.

**467 3-O-Acetyl-methyl-(24E)-3 α ,16 α ,23 α (=16R,23R)-trihydroxy-epoxy-17,14-friedolan-8,14,24-trien-26-oate**

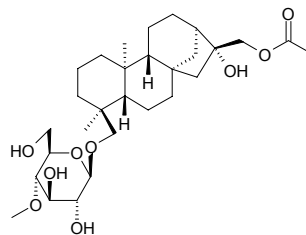
$C_{33}H_{48}O_5$ (524.75). Gum, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.0093$, CHCl_3). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.

**468 6'-O-Acetylmicrolepin**

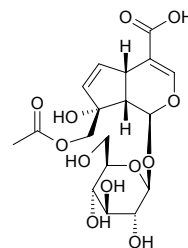
$C_{29}H_{48}O_9$ (540.70). Source: BIAN YUAN LIN GAI JUE *Microlepis marginata*. Ref: 660.

**469 17-O-Acetylmicrolepin**

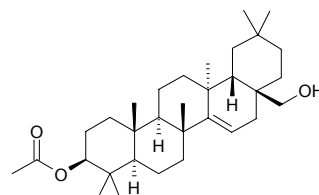
$C_{29}H_{48}O_9$ (540.70). Source: BIAN YUAN LIN GAI JUE *Microlepis marginata*. Ref: 660.

**470 10-O-Acetylmonotropein**

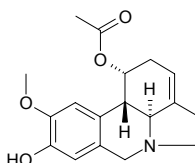
$C_{18}H_{24}O_{12}$ (432.38). Amorphous powder, $[\alpha]_D^{19} = -95.3^\circ$ ($c = 1.2$, MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**471 Acetylmyricadiol**

$C_{32}H_{52}O_3$ (484.77). Source: SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry; yield = 0.001%dw). Ref: 4714.

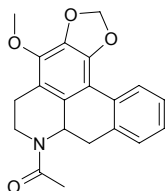
**472 1-O-Acetylnorpluviine**

1-O-Acetyl-9-O-demethylpluviine $C_{18}H_{21}NO_4$ (315.37). White amorphous powder (acetone-hexane), mp 185~187°C, $[\alpha]_D^{22} = -67^\circ$ ($c = 0.25$, EtOH); white crystalline, mp 173°C. Pharm: Antiplasmodial (strain D10, $IC_{50} = 28.3\mu\text{g/mL}$, control Hamayne, $IC_{50} = 15.6\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.002\mu\text{g/mL}$; strain FAC8, $IC_{50} = 34.2\mu\text{g/mL}$, Hamayne, $IC_{50} = 18.2\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.01\mu\text{g/mL}$; cytotoxic, BL6, $IC_{50} = 1.6\mu\text{g/mL}$, Hamayne, $IC_{50} = 9.4\mu\text{g/mL}$, Chloroquine, $IC_{50} = 20.9\mu\text{g/mL}$, Daunomycin, $IC_{50} = 0.43\mu\text{g/mL}$)^[3931]. Source: BU LANG WEI JI *Brunsvigia radulosa* (bulb)^[3931], *Ammocharis coranica* (bulb)^[3952]. Ref: 3931, 3952.

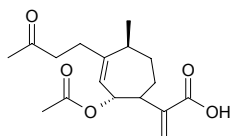


473 (-)-N-Acetylnorstephalagine

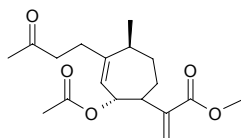
$C_{20}H_{19}NO_4$ (337.38). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 9.8 μg/mL; Hep2,2,15, IC₅₀ = 9.3 μg/mL). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (root). **Ref:** 3083.

**474 6- α -Acetyl-4-O-oxobedfordiaic acid**

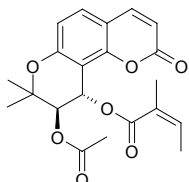
$C_{17}H_{24}O_5$ (308.38). Gummy material, $[\alpha]_D^{25} = -15.5^\circ$. **Source:** MAO RUI HUA YE TU MU XIANG *Inula verbascifolia*. **Ref:** 2041.

**475 6- α -Acetyl-4-O-oxobedfordiaic methyl ester**

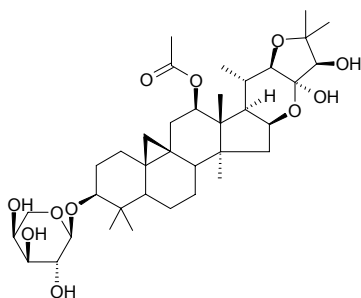
$C_{18}H_{26}O_5$ (322.40). Oil, $[\alpha]_D^{25} = -19.53^\circ$. **Source:** MAO RUI HUA YE TU MU XIANG *Inula verbascifolia*. **Ref:** 2041.

**476 (-)-3'-(S)-Acetyloxy-4'-(S)-angeloyloxy-3',4'-dihydroreselin**

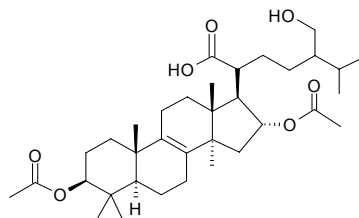
$C_{21}H_{22}O_7$ (386.41). Colorless acicular crystals, mp 172~174°C (petroleum spirit-acetic ester), $[\alpha]_D^{18} = -27.2^\circ$ ($c = 0.25$, chloroform). **Source:** NAN LING QIAN HU *Peucedanum longshengens*. **Ref:** 373.

**477 (22R,23R,24R)-12 β -Acetyloxy-16 β ,23:22,25-diepoxy-23,24-dihydroxy-9,19-cyclolanostan-3 β -yl α -L-arabinopyranoside**

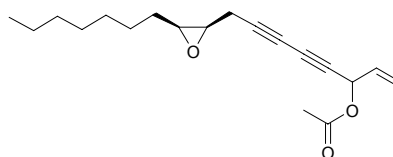
$C_{37}H_{58}O_{11}$ (678.87). Amorphous solid, $[\alpha]_D^{26} = -20.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HSC-2 cells, IC₅₀ = 170 μmol/L, control Etoposide, IC₅₀ = 24 μmol/L; HGF cells, IC₅₀ = 261 μmol/L). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

**478 O-Acetylpachymic acid-25-ol**

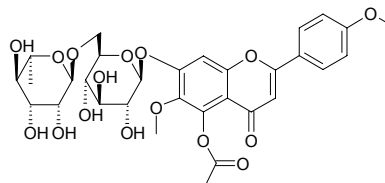
$C_{35}H_{56}O_7$ (588.83). Colorless acicular crystals, mp 244~245°C. **Source:** FU LING *Poria cocos*. **Ref:** 809.

**479 Acetyl panaxydol**

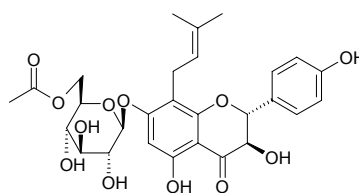
$C_{19}H_{26}O_3$ (302.42). **Source:** XI YANG SHEN *Panax quinquefolium*. **Ref:** 660.

**480 Acetylpectolarin**

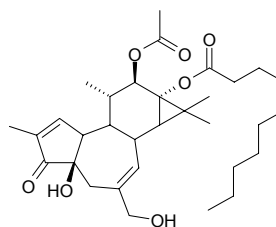
$C_{31}H_{56}O_{16}$ (664.62). mp 134~138°C (petroleum ether), $[\alpha]_D^{18} = -68.5^\circ$. **Pharm:** Diuretic; laxative. **Source:** LIU CHUAN YU *Linaria vulgaris*. **Ref:** 1.

**481 6'''-O-Acetylphellamurin**

$C_{28}H_{32}O_{12}$ (560.56). White powder. **Source:** RI BEN HUANG BAI *Phellodendron japonicum* (leaf). **Ref:** 4502.

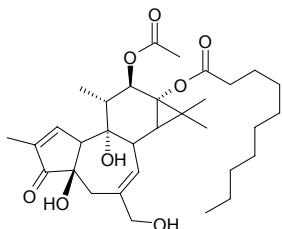
**482 12-O-Acetylphorbla-13-decanoate**

$C_{32}H_{48}O_7$ (544.74). **Source:** BA DOU *Croton tiglium*. **Ref:** 4552.

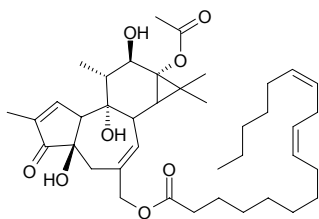


483 12-O-Acetylphorbol-13-decanoate

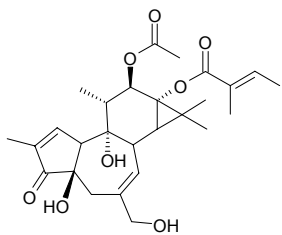
$C_{32}H_{48}O_8$ (560.73). **Pharm:** Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 0.0076\mu\text{g/mL}$, $CC_0 = 62.5\mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9\mu\text{g/mL}$, $CC_0 > 1000\mu\text{g/mL}$); PKC activator inactive (10ng/mL, activity rate = 0%). **Source:** BA DOU *Croton tiglium*. **Ref:** 3921.

**484 13-O-Acetylphorbol-20-linoleate**

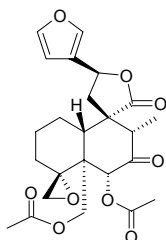
13-O-Acetylphorbol-20-(9Z,12Z-octadecadienoate) $C_{40}H_{60}O_8$ (668.92). Oil, $[\alpha]_D = +50^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 15.6\mu\text{g/mL}$, $CC_0 = 62.5\mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9\mu\text{g/mL}$, $CC_0 > 1000\mu\text{g/mL}$); PKC activator inactive (10ng/mL, activity rate = 0%). **Source:** BA DOU *Croton tiglium*. **Ref:** 3921.

**485 12-O-Acetylphorbol-13-tiglate**

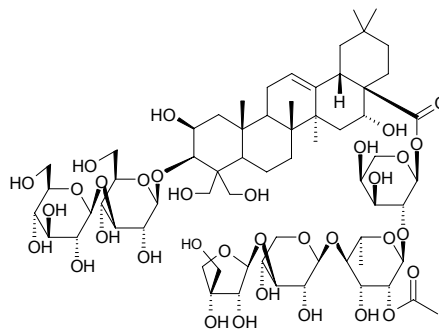
$C_{27}H_{36}O_8$ (488.58). Oil, $[\alpha]_D = +17.0^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 125\mu\text{g/mL}$, $CC_0 = 500\mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9\mu\text{g/mL}$, $CC_0 > 1000\mu\text{g/mL}$); PKC activator (10ng/mL, activity rate = 16%). **Source:** BA DOU *Croton tiglium*. **Ref:** 3921.

**486 6-Acetylpicropoline**

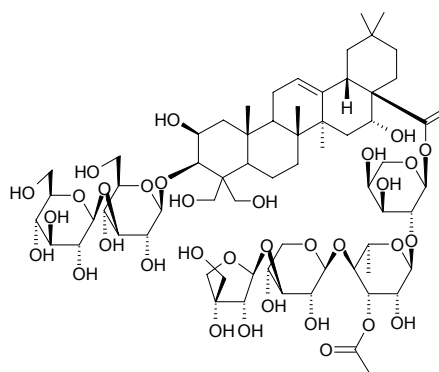
$C_{24}H_{28}O_9$ (460.49). **Pharm:** Bitter principle. **Source:** HUI BAI SHI CAN *Teucrium polium*. **Ref:** 658.

**487 2''-O-Acetylplatycodin D₂**

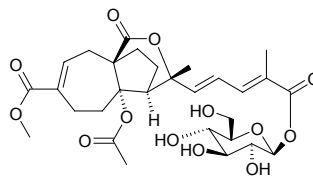
$C_{65}H_{104}O_{34}$ (1429.53). **Source:** JIE GENG *Platycodon grandiflorum*. **Ref:** 660.

**488 3''-O-Acetylplatycodin D₂**

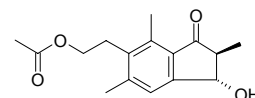
$C_{65}H_{104}O_{34}$ (1429.53). **Source:** JIE GENG *Platycodon grandiflorum*. **Ref:** 660.

**489 6'-O-Acetylpsedolaric acid B-O-β-D-glucopyranoside**

$C_{29}H_{38}O_{13}$ (594.62). White amorphous powder, $[\alpha]_D^{20} = -7.2^\circ$ ($c = 0.77$, Me_2CO). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root bark: yield = 0.000067% dw). **Ref:** 4637.

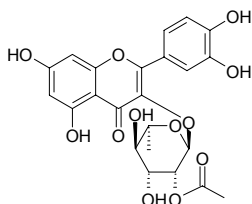
**490 Acetylpterosin C**

$C_{16}H_{20}O_4$ (276.34). mp 115~116°C. **Source:** JUE *Pteridium aquilinum* var. *latiusculum*. **Ref:** 6.

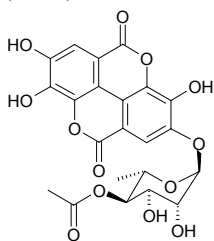


491 2''-O-Acetylquercitrin

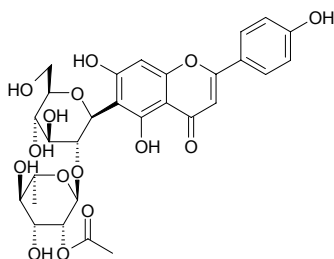
Quercetin-3-O-(2''-O-acetyl- α -rhamnopyranoside) C₂₃H₂₂O₁₂ (490.42). **Pharm:** Aldose reductase inhibitor (0.1 μ mol/L, InRt = 87%, 0.04 μ mol/L, InRt = 50%); used in treatment of diabetic cataract (one of the effective components in Red Wing Azalea). **Source:** LAN SHUI LIAN *Nymphaea caerulea*, *Azalea* sp. **Ref:** 1, 2342.

**492 4-(4''-O-Acetyl- α -rhamnopyranosyl)jellagic acid**

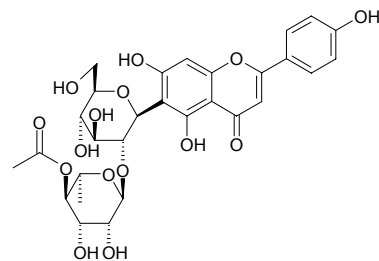
C₂₂H₁₈O₁₃ (490.38). $[\alpha]_D^{27} = -84^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 52 μ g/mL; P₃₈₈/ADM, IC₅₀ = 19 μ g/mL; K562, IC₅₀ = 80 μ g/mL; K562/ADM, IC₅₀ = 56 μ g/mL; B16, IC₅₀ = 52 μ g/mL; HeLa, IC₅₀ = 76 μ g/mL; KB, IC₅₀ = 61 μ g/mL); HIV-1 protease inhibitor (IC₅₀ = 11.0 μ g/mL). **Source:** YUN NAN FENG CHE ZI *Combretum yunnanensis* (branch) **Ref:** 4693.

**493 2'''-O-Acetyl-2''-O- α -L-rhamnopyranosylisovitexin**

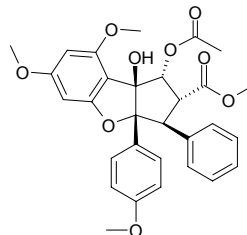
C₂₉H₃₂O₁₅ (620.57). Amorphous powder. **Source:** RI BEN SHUANG HU DIE *Tripterospermum japonicum*. **Ref:** 3533.

**494 4'''-O-Acetyl-2''-O- α -L-rhamnopyranosylisovitexin**

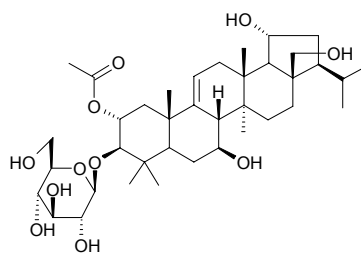
C₂₉H₃₂O₁₅ (620.57). Amorphous powder, $[\alpha]_D^{22} = -34.8^\circ$ ($c = 0.58$, MeOH). **Source:** RI BEN SHUANG HU DIE *Tripterospermum japonicum*. **Ref:** 3533.

**495 1-O-Acetyl-rocaglic acid methyl ester**

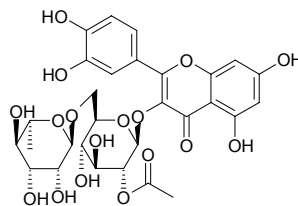
[253271-50-0] C₃₀H₃₀O₉ (534.57). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 6.62 mg/L, EC₅₀ = 1.03 mg/L; control Azadirachtin, LC₅₀ = 0.9 mg/L, EC₅₀ = 0.04 mg/L)^[2376]. **Source:** *Aglaia duperreana*. **Ref:** 2376.

**496 2-O-Acetyl-rubianoside IV**

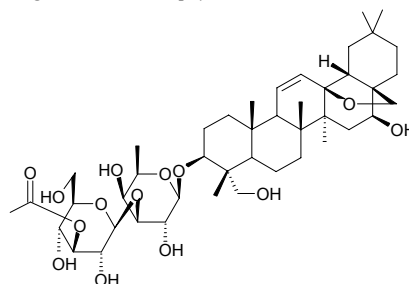
C₃₈H₆₂O₁₁ (694.91). **Pharm:** Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (-6.8 ± 3.6)%; control L-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase inhibitor inactive (rat basophilic cell RBL-2H3, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (-2.1 ± 4.2)%). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**497 2''-O-Acetylrutin**

Quercetin-3-O- α -L-rhamnopyranosyl(1→6)-2''-O-acetyl- β -D-glucopyranoside C₂₉H₃₂O₁₇ (652.57). Yellow powder, $[\alpha]_D^{28} = -28.9^\circ$ ($c = 0.80$, MeOH). **Pharm:** Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC₅₀ = 18 μ mol/L; control Epalrestat, IC₅₀ = 0.072 μ mol/L). **Source:** BAI MEI HUA *Prunus mume* (flower: yield = 0.0039%fw). **Ref:** 4641.

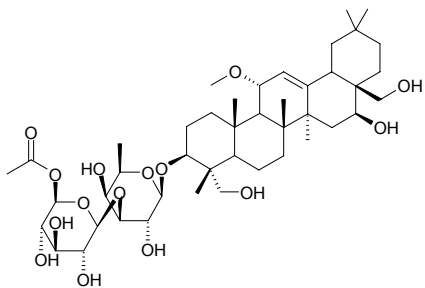
**498 3''-O-Acetylsaikosaponin A**

C₄₄H₇₀O₁₄ (823.04). **Source:** ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. **Ref:** 660.

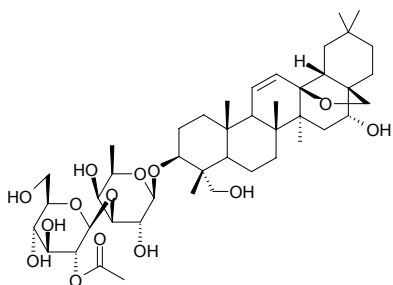


499 6''-O-Acetylsaikosaponin B₃

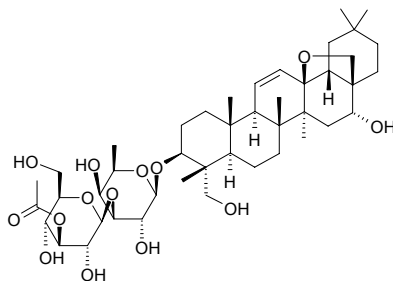
C₄₄H₇₂O₁₅ (841.06). Source: WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 660.

**500 2''-O-Acetylsaikosaponin D**

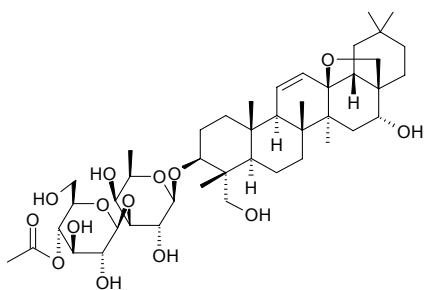
C₄₄H₇₀O₁₄ (823.04). Source: WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 660.

**501 3''-O-Acetylsaikosaponin D**

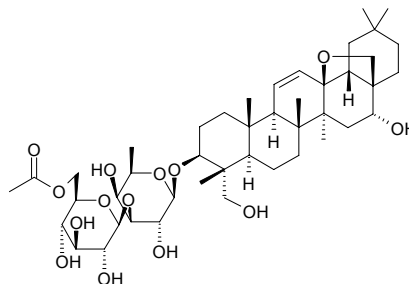
C₄₄H₇₀O₁₄ (823.04). Source: HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 2247.

**502 4''-O-Acetylsaikosaponin D**

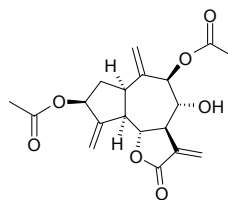
C₄₄H₇₀O₁₄ (823.04). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**503 6''-O-Acetylsaikosaponin D**

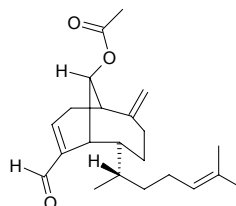
C₄₄H₇₀O₁₄ (823.04). Source: HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 2247.

**504 9-O-Acetylsalograviolide A**

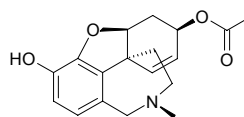
C₁₉H₂₂O₇ (362.38). Pharm: Antifungal (*Aspergillus niger*, MIC = 3.13 μg/mL; *Aspergillus ochraceus*, MIC = 0.78 μg/mL; *Penicillium ochrocloron*, MIC = 6.25 μg/mL; *Cladosporium cladosporioides*, MIC = 0.78 μg/mL; *Fusarium tricinctum*, MIC = 6.25 μg/mL; *Phomopsis helianthi*, MIC = 0.78 μg/mL; *Trichoderma viride*, inactive)^[2361]. Source: NI GU LA SHI CHE JU *Centaurea nicolai*. Ref: 2361.

**505 Acetylsanadaol**

C₂₂H₃₂O₃ (344.50). [α]_D²⁰ = +12.86° (c = 0.30, CH₂Cl₂). Source: XIAN ZHUANG WANG DI ZAO *Dictyota linearis*. Ref: 3818.

**506 3-O-Acetylsanguinine**

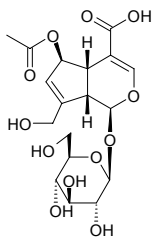
C₁₈H₂₁NO₄ (315.37). mp 215–218°C, [α]_D²⁰ = -13.5° (c = 0.2, MeOH). Pharm: Antitrypanosomal (*Trypanosoma brucei*, IC₅₀ = 1.1 μg/mL; *Trypanosoma cruzi*, IC₅₀ = 2.3 μg/mL); antiprotozoal inactive (*Plasmodium falciparum*, *Leishmania donovani*). Source: KEN NI YA WEN SHU LAN *Crinum kirkii* (bulb). Ref: 3892.



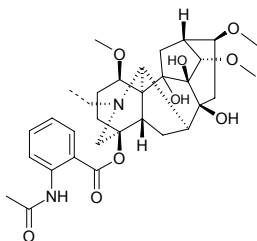
507 6-O-Acetylscandoside

$C_{18}H_{24}O_{12}$ (432.38). Amorphous powder, $[\alpha]_D^{19} = -82.7^\circ$ ($c = 1.2$, MeOH).

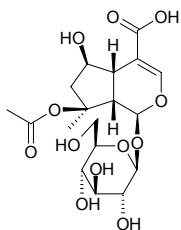
Source: TAI GUO BA JI *Morinda coreia*. **Ref:** 2002.

**508 N-Acetylsepaconitine**

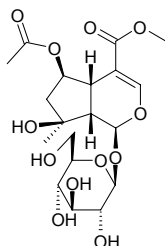
$C_{32}H_{44}N_2O_9$ (600.72). **Pharm:** Anti-inflammatory (modified assay of Berridge, 100 μ g/mL, InRt = 25.00%); tyrosinase inhibitor inactive (control Kojic acid, $IC_{50} = (16.67 \pm 0.52) \mu\text{mol/L}$, *L*-Mimosine, $IC_{50} = (3.68 \pm 0.02) \mu\text{mol/L}$); antioxidant (DPPH scavenger, 1 μ mol/L, ScRt = 38.1%; control BHA, 1 μ mol/L, ScRt = 92.5%). **Source:** BAI HOU WU TOU *Aconitum leucostomum*, *Aconitum leave* (aerial parts). **Ref:** 1521, 5271.

**509 8-O-Acetylshanzhiside**

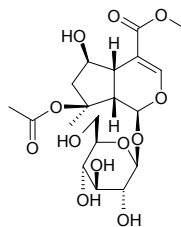
$C_{18}H_{26}O_{12}$ (434.40). $[\alpha]_D^{28} = -91.7^\circ$ ($c = 0.102$, MeOH). **Pharm:** Cytotoxic inactive (Vero cells); COX-2 inhibitor inactive. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower). **Ref:** 5456.

**510 6-O-Acetylshanzhiside methyl ester**

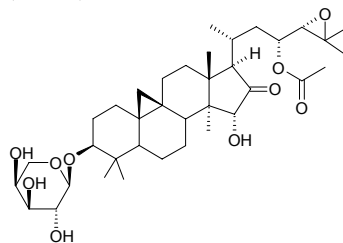
$C_{19}H_{28}O_{12}$ (448.23). $[\alpha]_D^{28} = -118.0^\circ$ ($c = 0.15$, MeOH). **Pharm:** Cytotoxic inactive (Vero cells); COX-2 inhibitor inactive. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower). **Ref:** 5456.

**511 8-O-Acetylshanzhiside methyl ester**

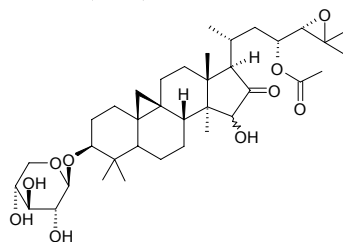
Barlerin $C_{19}H_{28}O_{12}$ (448.43). $[\alpha]_D^{29} = -56.0^\circ$ ($c = 0.103$, MeOH). **Pharm:** Cytotoxic inactive (Vero cells)^[5456]; COX-2 inhibitor inactive^[5456]. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower), MENG GU CAO SU *Phlomis mongolica*. **Ref:** 381, 560, 5456.

**512 23-O-Acetylshengmanol 3-O- α -L-arabinopyranoside**

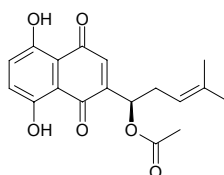
$C_{37}H_{58}O_{10}$ (662.87). Amorphous solid, $[\alpha]_D^{26} = -26.0^\circ$ ($c = 0.10$, MeOH); white powder, mp 262~263 $^\circ$ C, $[\alpha]_D^{20} = -0.012^\circ$ ($c = 0.43$, $CHCl_3$). **Pharm:** Cytotoxic (HSC-2 cells, $IC_{50} = 63 \mu\text{mol/L}$, control Etoposide, $IC_{50} = 24 \mu\text{mol/L}$; HGF cells, $IC_{50} = 267 \mu\text{mol/L}$)^[4158]. **Source:** SHENG MA *Cimicifuga foetida*, ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 2218, 4158.

**513 Acetyl shengmanol xyloside**

$C_{37}H_{58}O_{10}$ (662.87). **Source:** RI BEN SHENG MA *Cimicifuga japonica*. **Ref:** 660.

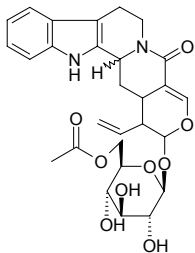
**514 Acetylshikonin**

$C_{18}H_{18}O_6$ (330.34). **Pharm:** Contracts blood vessels (inhibits ACh-induced relaxation on intact thoracic aorta, $IC_{50} = (0.831 \pm 0.138) \mu\text{mol/L}$, control 1,4-Naphthoquinone $IC_{50} = (1.504 \pm 0.171) \mu\text{mol/L}$)^[4916]. **Source:** DIAN ZI CAO *Onosma paniculatum* (root: mean content of 3 origins = 0.14%^[5508]), JIA ZI CAO *Arnebia guttata* (root: mean content of 2 origins = 0.18%^[5508]), XI HUA DIAN ZI CAO *Onosma hookeri* (root: content = 0.15%^[5508]), XIN ZANG JIA ZI CAO *Arnebia euchroma* (root: mean content of 3 origins = 1.23%^[5508]), ZI CAO *Lithospermum erythrorhizon* (root: mean content of 6 origins = 0.45%^[5508]). **Ref:** 1521, 2193, 4916, 5501, 5508.

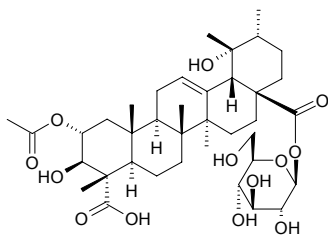


515 6-O-Acetylstritosamide

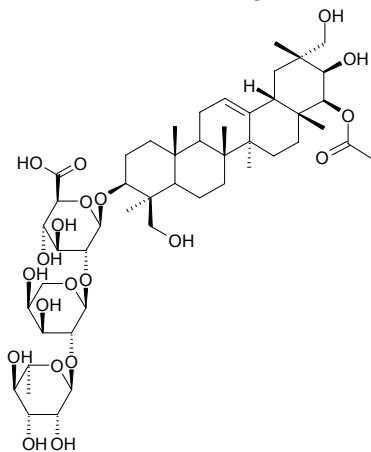
$C_{28}H_{32}N_2O_9$ (540.58). $[\alpha]_D = -50.5^\circ$ ($c = 0.62$, MeOH). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*).
Source: DONG FANG WU TAN *Nauclea orientalis*. **Ref:** 2178.

**516 2-O-Acetylsuavissimoside F₁**

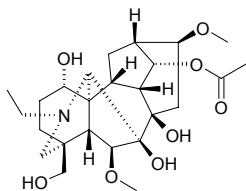
$C_{38}H_{58}O_{13}$ (722.88). Amorphous, $[\alpha]_D^{28} = -11.9^\circ$ ($c = 0.25$, MeOH) **Source:** SHE PAO JIN *Rubus cochinchinensis*. **Ref:** 1905.

**517 Acetyl-subproside II**

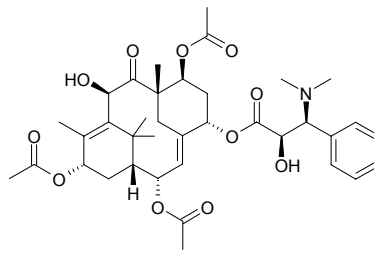
3-O- α -L-Rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl kudzusapogenol A 22-O-acetate $C_{49}H_{78}O_{20}$ (987.16). **Source:** CHAO XIAN LANG YA CI *Sophora koreensis* (root). **Ref:** 4056.

**518 14-O-Acetyltakaosamine**

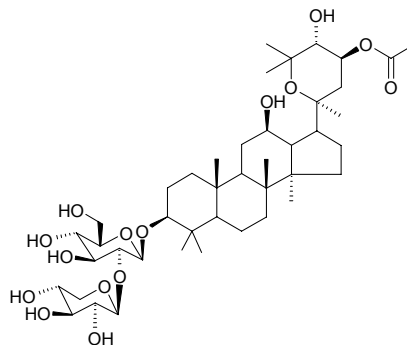
$C_{25}H_{39}NO_8$ (481.59). Amorphous solid, $[\alpha]_D^{25} = +25.3^\circ$ ($c = 0.4$, $CHCl_3$).
Source: DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts).
Ref: 4283.

**519 7-O-Acetyltaxine A**

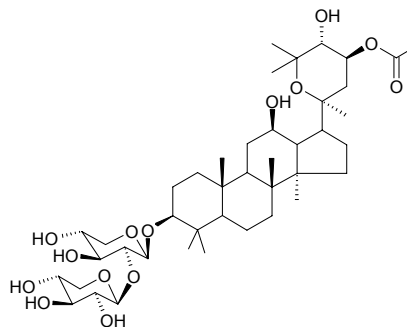
$C_{37}H_{49}NO_{11}$ (683.80). mp 178~180°C, $[\alpha]_D = -96^\circ$ ($CHCl_3$). **Pharm:** Cytotoxic inactive (A549 cell line)^[5225]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (needle leaf). **Ref:** 662, 5225.

**520 23-O-Acetyl-3 β ,12 β ,23S,24R-tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-xylopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside**

$C_{43}H_{72}O_{15}$ (829.04). Amorphous powder, $[\alpha]_D^{20} = +39.5^\circ$ ($c = 0.83$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial part: yield = 0.0035%dw). **Ref:** 4751.

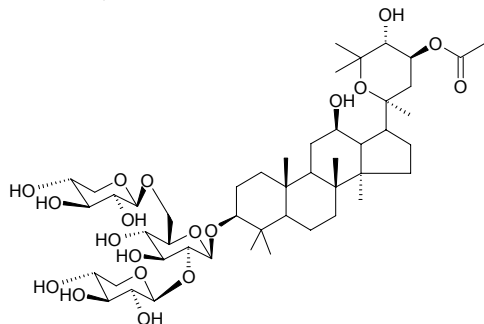
**521 23-O-Acetyl-3 β ,12 β ,23S,24R-tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-xylopyranosyl(1 \rightarrow 2)- β -D-xylopyranoside**

$C_{42}H_{70}O_{14}$ (799.02). Amorphous powder, $[\alpha]_D^{20} = +36.8^\circ$ ($c = 0.98$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0027%dw). **Ref:** 4751.



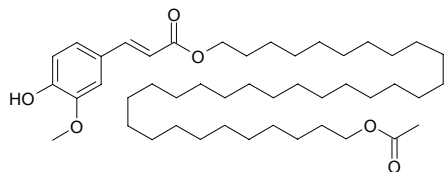
522 23-O-Acetyl-3 β ,12 β ,23S,24R-tetrahydroxy-20S,25-epoxydammarane 3-O-[β -D-xylopyranosyl(1 \rightarrow 2)] [β -D-xylopyranosyl(1 \rightarrow 6)]- β -D-glucopyranoside

C₄₈H₈₀O₁₉ (961.16). Amorphous powder, $[\alpha]_D^{20} = +17.6^\circ$ ($c = 1.03$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial part: yield = 0.0035%dw). **Ref:** 4751.



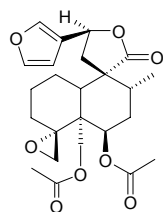
523 34-O-Acetyltetracontanylferulate

C₄₆H₈₀O₆ (729.15). Colorless powder, mp 68–69°C. **Source:** SHUANG SE JI DAN HUA *Plumeria bicolor*. **Ref:** 2286.



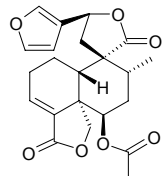
524 6-Acetyl-teucjaponin B

Montanin C C₂₄H₃₀O₈ (446.50). **Pharm:** Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = 10 μg/cm², FR₅₀ = 0.07±0.02, dose = 1 μg/cm², FR₅₀ = 0.34±0.06^[3761]). **Source:** SHAN XIANG KE KE *Teucrium montanum*, SUAN WEI XIANG KE KE *Teucrium scordium*. **Ref:** 1521, 3761.



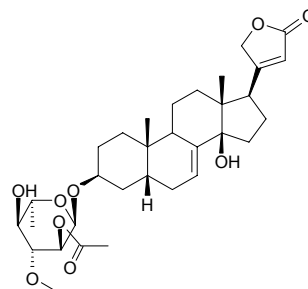
525 6 β -Acetylteuscordin

C₂₂H₂₄O₇ (400.43). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 μg/cm², antifeedant activity = (73±2)%, control Azadirachtin A, 0.5 μg/cm², antifeedant activity = (79±2)%; *Plutella xylostella*, 10 μg/cm², antifeedant activity = (72±2)%, Azadirachtin A, 0.5 μg/cm², antifeedant activity = (71±2)%). **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts), SUAN WEI XIANG KE KE *Teucrium scordium*. **Ref:** 3478.



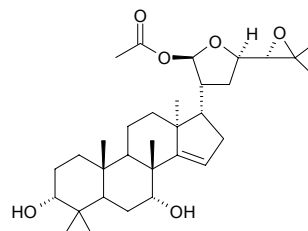
526 3 β -O-(2'-O-Acetyl- α -L-thevetosyl)-14 β -hydroxy-7-en-5 β -card-20(22)-enolide

7,8-Dehydrocerberin C₃₂H₄₆O₉ (574.72). White solid, mp 103–105°C.
Pharm: Cytotoxic (KB, ED₅₀ = 1.75 μg/mL; BC, ED₅₀ = 0.0006 μg/mL; NCI-H187, ED₅₀ = 16.7 μg/mL). **Source:** NIU XIN QIE ZI *Cerbera manghas*. **Ref:** 2594.



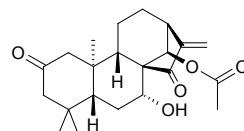
527 21-O-Acetyl toosendantriol

C₃₂H₅₀O₆ (530.75). **Source:** CHUAN LIAN ZI *Melia toosendan*. **Ref:** 660.



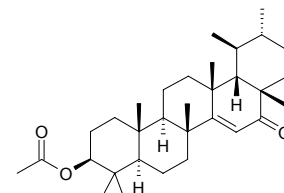
528 14-Acetylbrosin B

C₂₂H₃₀O₅ (374.48). mp 194–196°C. **Source:** XIANG CHA CAI *Isodon amethystoides*. **Ref:** 4067.



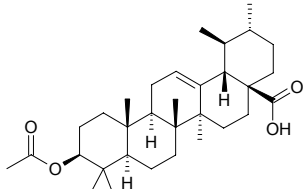
529 3 β -Acetylursa-14-en-16-one

C₃₂H₅₀O₃ (482.75). mp 167–169°C. **Source:** SHUI TONG MU *Ficus fistulosa* [Syn. *Ficus harlandii*]. **Ref:** 1906.

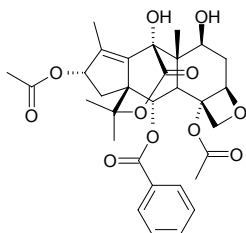


530 3-O-Acetylursolic acid

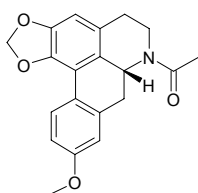
$C_{32}H_{50}O_4$ (498.75). mp 289~290°C. **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell, $IC_{50} > 10\mu\text{mol/L}$, control Etoposide, $IC_{50} = (0.5\pm 0.2)\mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (3.2\pm 0.5)\mu\text{mol/L}$; KB cell, $IC_{50} = (8.4\pm 2.9)\mu\text{mol/L}$, Etoposide, $IC_{50} = (0.9\pm 0.3)\mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (4.4\pm 0.9)\mu\text{mol/L}$; HT29 cell, $IC_{50} > 10\mu\text{mol/L}$, Etoposide, $IC_{50} = (2.4\pm 0.5)\mu\text{mol/L}$, *cis*-Platin, $IC_{50} = (5.7\pm 1.1)\mu\text{mol/L}$)^[5254]. **Source:** NV ZHEN ZI *Ligustrum lucidum*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], RONG SHU *Ficus microcarpa* (aerial root), SUO YANG *Cynomorium songaricum*, YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0021%)^[4163], occurs in many plants. **Ref:** 610, 660, 4163, 5254.

**531 13-O-Acetylwallifolol**

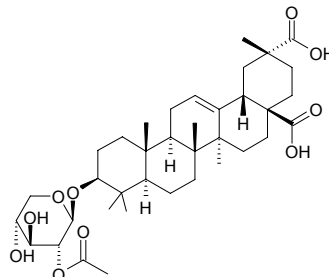
[Up here] $C_{31}H_{36}O_{11}$ (584.63). Yellow solid. **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} = 2.91\mu\text{g/mL}$, Hepa59T/VGH, $IC_{50} = 13.92\mu\text{g/mL}$; control Paclitaxel, KB, $IC_{50} = 0.001\mu\text{g/mL}$, Hepa59T/VGH, $IC_{50} = 0.001\mu\text{g/mL}$). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatрана* (leaf and twig: yield = 0.00014%dw). **Ref:** 4666.

**532 N-Acetylxylopine**

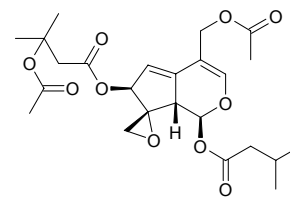
$C_{20}H_{19}NO_4$ (337.38). **Pharm:** Platelet aggregation inhibitor (rat blood: 2~5 $\mu\text{mol/L}$ ADP-induced, $IC_{50} = 440\mu\text{mol/L}$, control Acetylsalicylic acid, $IC_{50} > 1000\mu\text{mol/L}$; 2~5 $\mu\text{g/mL}$ collagen-induced, $IC_{50} = 8.0\mu\text{mol/L}$, Acetylsalicylic acid, $IC_{50} = 420\mu\text{mol/L}$; 1~4 $\mu\text{mol/L}$ epinephrine-induced with threshold concentration of collagen (0.8~1.0 $\mu\text{g/mL}$), $IC_{50} = 0.28\mu\text{mol/L}$, Acetylsalicylic acid, $IC_{50} = 53\mu\text{mol/L}$; 10~40 $\mu\text{mol/L}$ AA-induced with threshold concentration of collagen (0.8~1.0 $\mu\text{g/mL}$), $IC_{50} = 0.37\mu\text{mol/L}$, Acetylsalicylic acid, $IC_{50} = 66\mu\text{mol/L}$; 1~5 $\mu\text{mol/L}$ U46619-induced with threshold concentration of collagen (0.8~1.0 $\mu\text{g/mL}$), $IC_{50} = 3.7\mu\text{mol/L}$, Acetylsalicylic acid, $IC_{50} = 340\mu\text{mol/L}$; 1~2 $\mu\text{mol/L}$ hmn U46619 in 1mmol/L acetylsalicylic acid-induced, $IC_{50} = 47\mu\text{mol/L}$, control Pentolamine, $IC_{50} > 100\mu\text{mol/L}$, control Yohimbine, $IC_{50} > 100\mu\text{mol/L}$). **Source:** RI BEN HOU PO *Magnolia obovata* (leaf). **Ref:** 5381.

**533 3-O- α -(2''-O-Acetyl)-D-xylopyranosyl-3 β -hydroxyolean-12-ene-28,29-dioic acid**

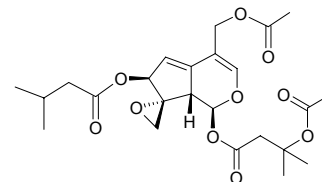
$C_{37}H_{56}O_{10}$ (660.85). White powder, mp 267~270°C, $[\alpha]_D^{20} = +3.55^\circ$ ($c = 0.1$, methanol). **Source:** YI YE LIANG WANG CHA *Nothopanax davidii*. **Ref:** 216.

**534 Acevaltrate**

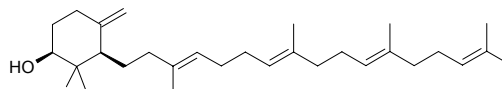
$C_{24}H_{32}O_{10}$ (480.52). **Source:** ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000019%dw). **Ref:** 4672.

**535 Acevaltratrum**

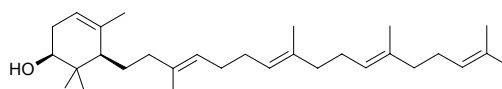
[25161-41-5] $C_{24}H_{32}O_{10}$ (480.52). White acicular crystals (ethane), mp 83~84°C, $[\alpha]_D^{24} = +163.7^\circ$ (methanol). **Pharm:** Sedative. **Source:** ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. **Ref:** 1.

**536 Achilleol A**

$C_{30}H_{50}O$ (426.73). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 5491.

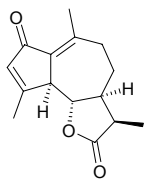
**537 Achilleol C**

Camelliol C $C_{30}H_{50}O$ (426.73). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 20.1% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%)^[4606]. **Source:** HUO YANG LE *Euphorbia antiquorum* (latex), MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 4606, 5491.

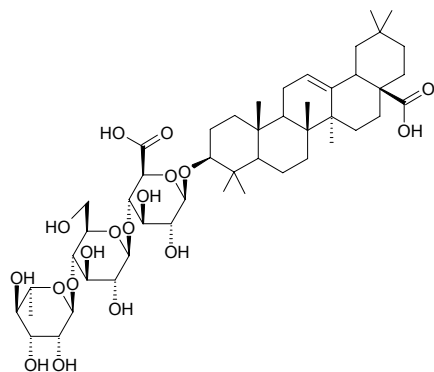


538 Achillin

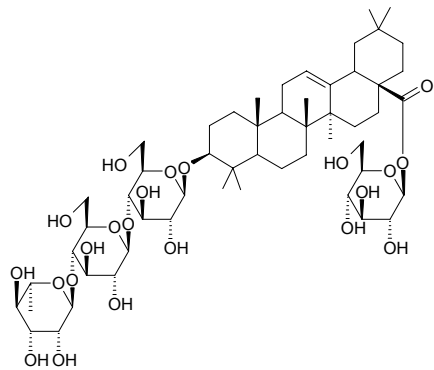
$C_{15}H_{18}O_3$ (246.31). mp 144~145°C. Pharm: Anti-inflammatory; plant growth inhibitor. Source: YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*], YUN NAN SHI *Achillea wilsoniana*, YANG SHI CAO *Achillea millefolium*. Ref: 6, 658.

**539 Achyranthes saponin A**

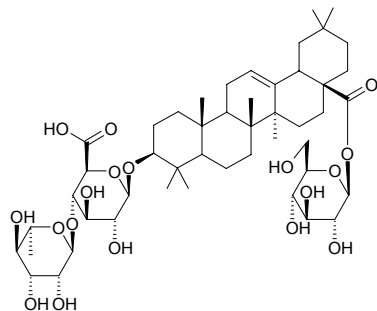
$C_{48}H_{76}O_{18}$ (941.13). Source: TU NIU XI *Achyranthes aspera* (seed). Ref: 660.

**540 Achyranthes saponin B**

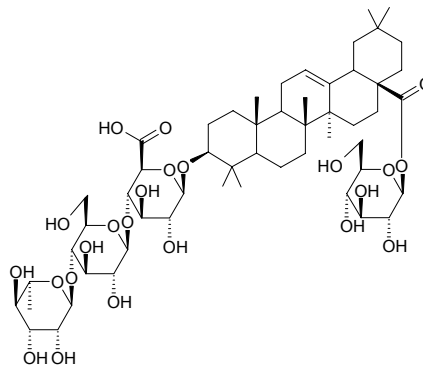
$C_{54}H_{88}O_{22}$ (1089.29). Source: TU NIU XI *Achyranthes aspera* (seed). Ref: 660.

**541 Achyranthes saponin C**

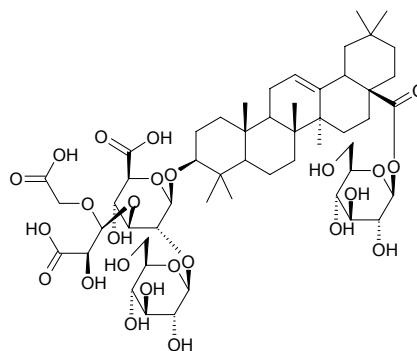
$C_{48}H_{76}O_{18}$ (941.13). Source: TU NIU XI *Achyranthes aspera*. Ref: 660.

**542 Achyranthes saponin D**

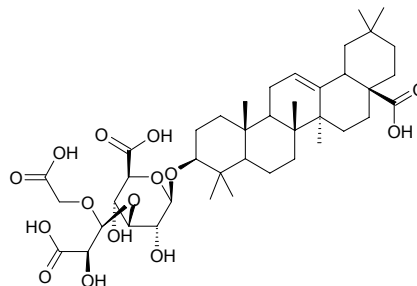
$C_{54}H_{86}O_{23}$ (1103.27). Source: TU NIU XI *Achyranthes aspera*. Ref: 660.

**543 Achyranthoside I**

3-*O*-[2'- β -*D*-Glucopyranosyl-3'-*O*-(2''-hydroxy-1''-carboxyethoxycarboxypropyl)]- β -*D*-glucopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranoside $C_{53}H_{82}O_{25}$ (1119.23). Colorless needles, mp 205~207°C, $[\alpha]_D^{20} = +12.5^\circ$ ($c = 0.4$, MeOH). Source: NIU XI *Achyranthes bidentata*. Ref: 4891.

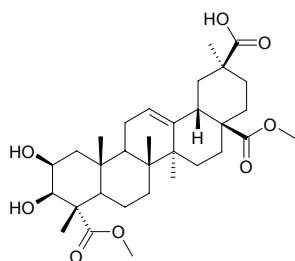
**544 Achyranthoside II**

Oleanolic acid 3-*O*-[3'-*O*-(2''-hydroxy-1''-carboxyethoxycarboxypropyl)]- β -*D*-glucopyranoside $C_{41}H_{62}O_{15}$ (794.94). Colorless needles, mp 186~188°C, $[\alpha]_D^{20} = +10.5^\circ$ ($c = 0.1$, MeOH). Source: NIU XI *Achyranthes bidentata*. Ref: 4891.

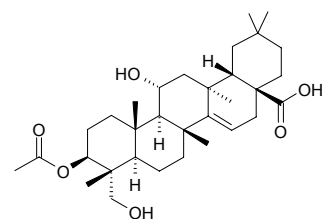


545 Acinospesigenin

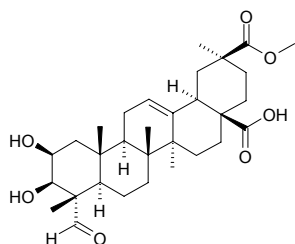
$C_{32}H_{48}O_8$ (560.73). Source: SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry: yield = 0.002%dw). Ref: 660, 4714.

**546 Acinospesigenin A**

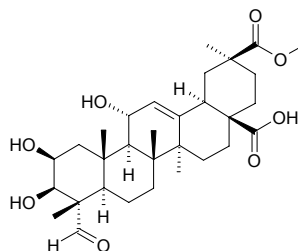
3 β -Acetoxy-11 α ,23-dihydroxytaraxer-14-en-28-oic acid $C_{32}H_{50}O_6$ (530.75). Colorless crystals, mp 189~190°C (Me₂CO–petroleum ether), $[\alpha]_D^{20} = +47.1^\circ$ ($c = 0.01$, MeOH). Pharm: Anti-inflammatory (edema was induced in hind paw of rats by injecting 2mL DMSO, ED₅₀ = 25mg/kg mass; control Cortisone, ED₅₀ = 30mg/kg mass; Prednisolone, ED₅₀ = 60mg/kg mass). Source: SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry: yield = 0.002%dw). Ref: 4714.

**547 Acinospesigenin B**

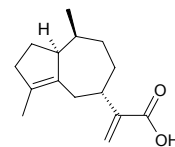
Olean-12-en-23-al-2 β ,3 β -dihydroxy-30-methoxycarbonyl-28-oic acid $C_{31}H_{46}O_7$ (530.71). Colorless crystals, mp 224~225°C (MeOH–CHCl₃), $[\alpha]_D^{25} = +36.2^\circ$ ($c = 0.01$, C₅H₅N). Pharm: Anti-inflammatory (edema was induced in hind paw of rats by injecting 2mL DMSO, ED₅₀ = 10~15mg/kg mass; control Cortisone, ED₅₀ = 30mg/kg mass; Prednisolone, ED₅₀ = 60mg/kg mass). Source: SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry: yield = 0.0018%dw). Ref: 4714.

**548 Acinospesigenin C**

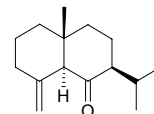
Olean-12-en-23-al-2 β ,3 β ,11 α -trihydroxy-30-methoxycarbonyl-28-oic acid $C_{31}H_{46}O_8$ (546.71). Colorless crystalline compound, mp 236~237°C (MeOH–CHCl₃), $[\alpha]_D^{25} = +48.9^\circ$ ($c = 0.01$, C₅H₅N). Pharm: Anti-inflammatory (edema was induced in hind paw of rats by injecting 2mL DMSO, ED₅₀ = 10~15mg/kg mass; control Cortisone, ED₅₀ = 30mg/kg mass; Prednisolone, ED₅₀ = 60mg/kg mass). Source: SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry: yield = 0.0013%dw). Ref: 4714.

**549 Aciphyllic acid**

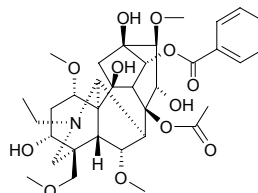
$C_{15}H_{22}O_2$ (234.34). Source: XIN JIANG YI ZHI HAO *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], *Anthemis* spp. Ref: 660, 1521.

**550 Acolamone**

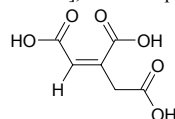
[39012-14-1] $C_{15}H_{24}O$ (220.36). Source: BAI CHANG *Acorus calamus*. Ref: 6.

**551 Aconifine**

[41849-35-8] $C_{34}H_{47}NO_{12}$ (661.75). Pharm: Toxin. Source: DUO GEN WU TOU *Aconitum karakolicum*, BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nazarum*]. Ref: 658.

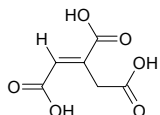
**552 cis-Aconitic acid**

[585-84-2] $C_6H_6O_6$ (174.11). mp (*cis*-) 125°C, (*trans*-) 194~195°C. Pharm: Antineoplastic (mus, inhibits carcinogenesis of 3, 4-benzopyrene). Source: GAN ZHE *Saccharum sinensis*, GU JIE CAO *Equisetum palustre*, HEI DA DOU *Glycine max*, HEI DA DOU YE *Glycine max*, JIN CAO *Arthraxon hispidus*, OU WU TOU *Aconitum napellus*, YAO YONG GAN ZHE *Saccharum officinarum*, YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*], *Achillea* sp. Ref: 1, 6.

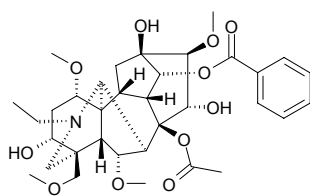


553 trans-Aconitic acid

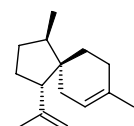
trans-1-Propene-1,2,3-tricarboxylic acid [4023-65-8] C₆H₆O₆ (174.11). mp (*cis*-) 125°C, (*trans*-) 194–195°C. Source: GAN ZHE *Saccharum sinensis*, GU JIE CAO *Equisetum palustre*, HEI DA DOU YE *Glycine max*, JIN CAO *Arthraxon hispidus*, YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*]. Ref: 1, 6.

**554 Aconitine**

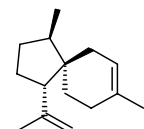
[302-27-2] C₃₄H₄₇NO₁₁ (645.75). mp 204°C, [α]_D = +17.3°, soluble in chloroform, benzene, ethanol and ether, insoluble in water. Pharm: Analgesic; local anesthetic (anesthesia against peripheral nerve ending); antihypertensive; antipyretic; slows heart rate; supertoxic agent (hmn, causes death upon transcutaneous absorption, orl, 0.2mg causes intoxication); LD₅₀ (mus, iv) = 0.166mg/kg, (mus, ip) = 0.328mg/kg, (mus, orl) = 1mg/kg. Source: BEI WU TOU *Aconitum kusnezoffii* (dried tuberoid: content = 0.008%^[5508]), FU ZI *Aconitum carmichaeli* (daughter root: content = 0.0049%^[5508]), OU WU TOU *Aconitum napellus*, WU TOU *Aconitum carmichaeli* (tuberoid: mean content = 0.021%^[5508], in 1959, isolated from the plant by K. Wiesner, et al^[5505]), XUE SHANG YI ZHI HAO *Aconitum brachypodum*. Ref: 2, 4, 5, 6, 658, 660, 5501, 5505, 5507, 5508.

**555 α-Acoradiene**

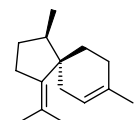
[24048-44-0] C₁₅H₂₄ (204.36). Source: DANG GUI *Angelica sinensis*, DU SONG SHI *Juniperus rigida*. Ref: 2.

**556 β-Acoradiene**

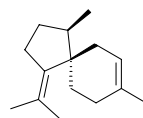
[28477-64-7] C₁₅H₂₄ (204.36). Source: DANG GUI *Angelica sinensis*, DU SONG SHI *Juniperus rigida*. Ref: 2.

**557 γ-Acoradiene**

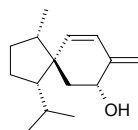
[28400-12-6] C₁₅H₂₄ (204.36). Source: DANG GUI *Angelica sinensis*, DU SONG SHI *Juniperus rigida*. Ref: 2.

**558 δ-Acoradiene**

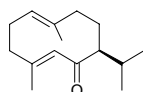
[28400-13-7] C₁₅H₂₄ (204.36). Source: DANG GUI *Angelica sinensis*. Ref: 2.

**559 1S*,4S*,5S*-Acora-8(15),9-dien-7R*-ol**

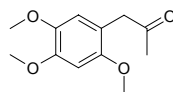
C₁₅H₂₄O (220.36). Oil, [α]_D²⁰ = -165.0° (c = 0.2, MeOH). Source: *Bazzania madagassa*. Ref: 4458.

**560 Acoragermacrone**

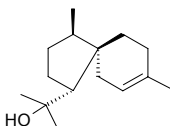
C₁₅H₂₄O (220.36). Source: BAI CHANG *Acorus calamus*, JI JI *Chloranthus serratus*. Ref: 660.

**561 Acoramone**

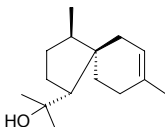
C₁₂H₁₆O₄ (224.26). Source: BAI CHANG *Acorus calamus*. Ref: 660.

**562 α-Acorenol**

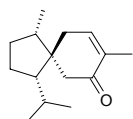
[28296-85-7] C₁₅H₂₆O (222.37). Source: DU SONG SHI *Juniperus rigida*. Ref: 6.

**563 β-Acorenol**

[28400-11-5] C₁₅H₂₆O (222.37). Source: DU SONG SHI *Juniperus rigida*. Ref: 6.

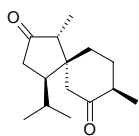
**564 Acorenone**

[5956-05-8] C₁₅H₂₄O (220.36). Source: BAI CHANG *Acorus calamus*. Ref: 6.

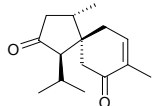


565 Acorone

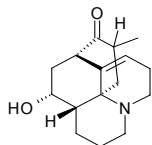
[10121-28-5] C₁₅H₂₄O₂ (236.36). mp 100°C. Source: BAI CHANG *Acorus calamus*. Ref: 6.

**566 Acoronene**

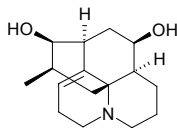
[33983-45-8] C₁₅H₂₂O₂ (234.34). mp 69°C. Source: BAI CHANG *Acorus calamus*. Ref: 6.

**567 Acrifoline**

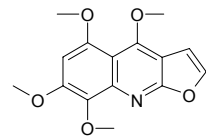
[664-24-4] C₁₆H₂₃NO₂ (261.37). mp 103~104°C. Pharm: Toxin. Source: XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*], LIANG NIAN SHI SONG *Lycopodium annotinum* var. *acrifolium*. Ref: 6.

**568 Acrifolinol**

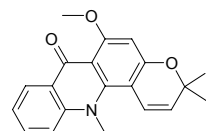
C₁₆H₂₅NO₂ (263.38). Source: YU BAI SHI SONG *Lycopodium obscurum*. Ref: 660.

**569 Acronycidine**

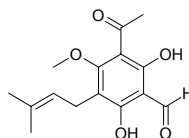
[521-43-7] C₁₅H₁₅NO₅ (289.29). Pharm: CNS depressant; antibacterial inactive (*Staphylococcus aureus* MIC > 20mg/mL, control Amoxycillin, MIC = 2.0µg/mL; *Staphylococcus epidermidis* MIC > 20mg/mL; *Pseudomonas aeruginosa* MIC > 20mg/mL; *Enterobacter cloacae* MIC > 20mg/mL; *Klebsiella pneumoniae* MIC > 20mg/mL; *Escherichia coli* MIC > 20mg/mL). Source: BAO RUI SHAN YOU GAN *Acronychia baueri*, *Sarcomelicope megistophylla* (bark). Ref: 658, 4172.

**570 Acronycine**

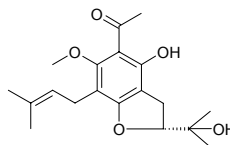
[7008-42-6] C₂₀H₁₉NO₃ (321.38). Pharm: Antineoplastic (marrow-leukemia C1498, phlogocyte myeloma X5563 and Shingi cancer 115). Source: BAO RUI SHAN YOU GAN *Acronychia baueri*, DAN YE YOU GAN *Acronychia haplophylla*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], SHA TANG MU *Acronychia pedunculata*. Ref: 1, 6, 11.

**571 Acronyculatin A**

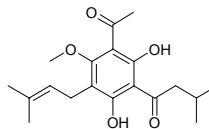
1-[3'-Formyl-2',4'-dihydroxy-6'-methoxy-5'-(3''-methylbut-2''-enyl)]acetophenone C₁₅H₁₈O₅ (278.31). Colorless syrup. Pharm: Antioxidant inactive (500µmol/L); tyrosinase inhibitor inactive (500µmol/L). Source: SHA TANG MU *Acronychia pedunculata* (root bark and stem: yield = 0.0028%). Ref: 4704.

**572 Acronyculatin B**

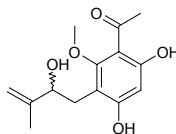
1-[2'-Hydroxy-3',4'-(2'''-isopropanoyldihydrofuran)-6'-methoxy-5'-(3''-methylbut-2''-enyl)]acetophenone C₁₉H₂₆O₅ (334.42). Colorless powder, mp 118~119°C, [α]_D²⁵ = -58.0° (c = 0.013, MeOH). Pharm: Antioxidant inactive (500µmol/L); tyrosinase inhibitor inactive (500µmol/L). Source: SHA TANG MU *Acronychia pedunculata* (root bark and stem: yield = 0.0093%). Ref: 4704.

**573 Acronyculatin C**

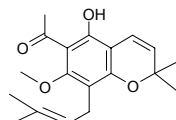
1-[2',4'-Dihydroxy-6'-methoxy-3'-(3''-methylbutanoyl)-5'-(3''-methylbut-2''-enyl)]acetophenone C₁₉H₂₆O₅ (334.42). Colorless syrup. Pharm: Antioxidant inactive (500µmol/L); tyrosinase inhibitor inactive (500µmol/L). Source: SHA TANG MU *Acronychia pedunculata* (root bark and stem: yield = 0.00083%). Ref: 4704.

**574 Acronyculatin D**

1-[2',4'-Dihydroxy-5'-(2''-hydroxy-3''-methyl-3''-butenyl)-6'-methoxy]acetophenone C₁₄H₁₈O₅ (266.3). Colorless syrup, [α]_D²⁵ = -31.0° (c = 0.029, MeOH). Pharm: Antioxidant inactive (500µmol/L); tyrosinase inhibitor inactive (500µmol/L). Source: SHA TANG MU *Acronychia pedunculata* (root bark and stem: yield = 0.0017%). Ref: 4704.

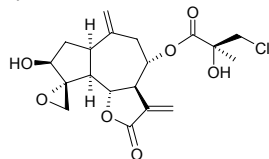
**575 Acronyculatin E**

1-[2'-Hydroxy-6'-methoxy-5'-(2''-hydroxy-3''-methyl-3''-butenyl)-3',4'-3''-dimethyl-1''-pyrenyl]acetophenone C₁₉H₂₄O₅ (316.4). Colorless syrup. Pharm: Antioxidant inactive (500µmol/L); tyrosinase inhibitor inactive (500µmol/L). Source: SHA TANG MU *Acronychia pedunculata* (root bark, stem: yield = 0.0057%). Ref: 4704.

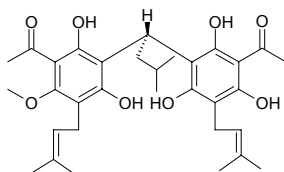


576 Acroptilin

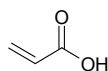
[41787-75-1] C₁₉H₂₃ClO₇ (398.84). **Pharm:** Antineoplastic; antiprotozoal (*Trichomonas vaginalis* and *Amoeba histolytica*, EC = 0.24~7.8µg/mL); cytotoxic. **Source:** DING YU JU *Acroptilon repens*. **Ref:** 658.

**577 Acrovestone**

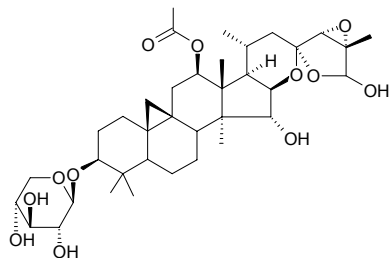
[24177-16-0] C₃₂H₄₂O₈ (554.69). **Pharm:** Cytotoxic (A549, KB, P₃₈₈ and L₁₂₁₀)^[658]; antioxidant (DPPH weak scavenger, IC₅₀ = 493µmol/L; control Vitamin E, IC₅₀ = 8.3µmol/L)^[4704]; tyrosinase inhibitor (IC₅₀ = 333µmol/L, weak activity; control Kojic acid, IC₅₀ = 125µmol/L)^[4704]. **Source:** BAO SHAN YOU GAN *Acronychia vestita*, SHA TANG MU *Acronychia pedunculata* (root bark, stem: yield = 5.25%)^[4704]. **Ref:** 658, 4704.

**578 Acrylic acid**

Propenoic acid; Vinylformic acid [79-10-7] C₃H₄O₂ (72.06). mp 13°C, bp 141°C. **Source:** KONG SHI CHUN *Ulva pertusa*, SHUI SONG *Codium fragile*. **Ref:** 6, 660.

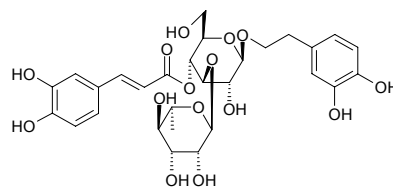
**579 Actein**

C₃₇H₅₆O₁₂ (692.85). **Pharm:** Cytotoxic (HSC-2 cells, IC₅₀ = 44µmol/L, control Etoposide, IC₅₀ = 24µmol/L; HGF, IC₅₀ = 141µmol/L). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

**580 Acteroside**

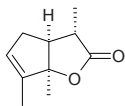
Verbascoside [61276-17-3] C₂₉H₃₆O₁₅ (624.60). mp 142°C, colorless amorphous powder, [α]_D²⁰ = -83° (c = 0.3, MeOH). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 0.24mmol/L, control *dl*-Vitamin E, IC₅₀ = 0.48mmol/L, BHA, IC₅₀ = 0.63mmol/L)^[4211]; antioxidant (DPPH scavenger, IC₅₀ = 63µmol/L, control Ascorbic acid, IC₅₀ = 129µmol/L)^[5449]; antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 5.9%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control α-Tocopherol 0.5mmol/L, peroxidation value = 14.7%)^[4508]; antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 28µmol/L; control Trolox,

IC₅₀ = 101µmol/L)^[4698]; antioxidant (relative potency > 6.9, compared with resveratrol, relative potency = 1)^[4920]; antioxidant (*in vitro* inhibits LDL peroxidation, Cu²⁺-induced and AAPH-induced)^[5370]; inhibits minimally oxidized LDL-induced cellular toxicity (cultured bovine aortic endothelial cells, BAEC)^[5370]; anti-apoptosis (cerebellar granule neurons, protects MPP⁺-induced CGNs death, improves cell viability and inhibits lactate dehydrogenase (LDH) release, effective dose = 12.5, 25 and 50µmol/L, control EGF 100ng/mL)^[5348]; anti-apoptosis (prevents CGNs apoptosis, neurotoxin MPP⁺-induced, flowcytometric analysis of CGNs, effective dose = 20 and 50µmol/L, control EGF 100ng/mL, a decrease in the number of the MPP⁺-induced apoptotic cells was observed, *p*<0.001)^[5348]; anti-apoptosis (inhibits the active caspase-3 fragment (*p*<0.001) and proteolytic poly (ADP-ribose) polymerase (PARP) fragment expression (*p*<0.001) following MPP⁺ treatment in CGNs, Western blot analysis, control EGF 100ng/mL)^[5348]; elastase inhibitor (hmn leukocyte *in vitro*, IC₅₀ > 500µg/mL = >800µmol/L; control Caffeic acid, IC₅₀ = 86µg/mL = 475µmol/L)^[5458]; antihepatotoxin; anti-inflammatory; increases blood pressure; 5-lipoxygenase inhibitor (hmn leukocyte); aldose reductase inhibitor (eye lens); antitrypanosomal (*Trypanosoma b. rhodesiense*, IC₅₀ = 14.2µg/mL, control Melarsoprol, IC₅₀ = 0.00098µg/mL; *Trypanosoma cruzi*, IC₅₀ > 90µg/mL, control Benzimidazole, IC₅₀ = 1.06µg/mL)^[5009]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 50µg/mL, control Artemisinin, IC₅₀ = 0.0022µg/mL)^[5009]; antileishmanial (*Leishmania donovani*, IC₅₀ = 8.7µg/mL, control Miltefosine, IC₅₀ = 0.102µg/mL)^[5009]; cytotoxic (L6, IC₅₀ = 37.1µg/mL, control Podophyllotoxin, IC₅₀ = 0.008µg/mL)^[5009]. **Source:** A LA BO PO PO NA *Veronica persica* (aerial parts), CHA RU SHI WAN CUO *Asystasia intrusa*, CHANG YE CHE QIAN *Plantago lanceolata*, CHE QIAN *Plantago asiatica*, CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.012%dw)^[4698], DA CHE QIAN *Plantago major*, DI ZHONG HAI MAO RUI HUA *Verbascum sinuatum*, DU HONG HUA *Callicarpa formosana* (dried leaf: content scope of 5 origins = 0.73%~1.36%, mean content = 1.06%^[5522]), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], JIN ZHONG HUA *Forsythia viridissima*, LIE DANG *Orobanchae coerulea* (whole herb), MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], MAO PAO TONG *Paulownia tomentosa*, MI MENG HUA *Buddleja officinalis* (flower: mean content of 10 origins = 1.26%^[5508]), NAN FEI GOU MA *Harpagophytum procumbens*, OU XIA ZHI CAO *Marrubium vulgare* (aerial parts), QIU HUA ZUI YU CAO *Buddleja globosa*, ROU CONG RONG *Cistanche deserticola* (fleshy stem: content = 0.338%^[5508]), TIAN SHE CAO *Lippia dulcis* (aerial parts), XIAO YE ZHI MA *Galeobdolon chinense* [Syn. *Lamium chinense*] (dried whole herb: mean content of 4 origins = 1.17%^[5508]), YAN SHENG ROU CONG RONG *Cistanche salsa*, ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*, ZONG KUI CAO SU *Phlomis brunneogaleata*, *Sideritis ozturkii* (aerial parts), *Forsythia* sp., occurs in many plants. **Ref:** 2, 529, 628, 629, 658, 660, 2577, 2589, 3827, 4211, 4508, 4698, 4920, 5009, 5346, 5370, 5020, 5449, 5458, 5508, 5522.

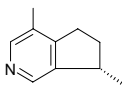


581 Actinidialactone

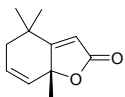
$C_{10}H_{14}O_2$ (166.22). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.

**582 Actinidine**

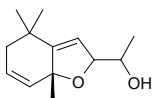
[524-03-8] $C_{10}H_{13}N$ (147.22). mp (\pm)142~143°C, bp 100~103°C/9mmHg, $[\alpha]_D^{11} = -7.2^\circ$ ($c = 17.54$, chloroform). Pharm: Enhances sedative effects of phenobarbital; antihypertensive; salivary secretion promotor. Source: HUANG ZHONG HUA *Tecoma stans*, MI HOU LI *Actinidia arguta*, MI HOU TAO *Actinidia chinensis*, MU TIAN LIAO *Actinidia polygama*, XIE CAO *Valeriana officinalis*. Ref: 1, 4, 1521.

**583 Actinidiolide**

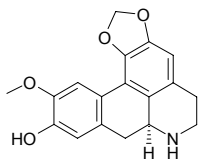
$C_{11}H_{14}O_2$ (178.23). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.

**584 Actinidol**

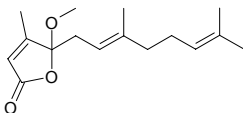
$C_{13}H_{20}O_2$ (208.30). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.

**585 Actinodaphnine**

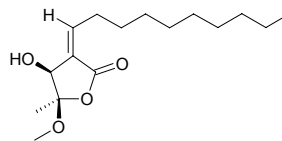
[517-69-1] $C_{18}H_{17}NO_4$ (311.34). Mp (+) 210~211°C. Pharm: Antibacterial; antitrypanosomal (*Trypanosoma brucei brucei*, $IC_{50} = 3.2\mu\text{mol/L}$, Suramin, $IC_{50} = 0.06\mu\text{mol/L}$; cytotoxic, hmn cervixcarcinoma cell HeLa, $IC_{50} = 15\mu\text{mol/L}$)^[4969]. Source: LA ZHI MU JIANG ZI *Litsea sebifera*, WU YE TENG *Cassytha filiformis*, YUE GUI ZI *Laurus nobilis*. Ref: 6, 658, 4969.

**586 Actinolide A**

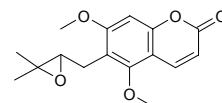
$C_{16}H_{24}O_3$ (264.37). Colorless oil, $[\alpha]_D^{26.5} = +5.1^\circ$ ($c = 0.33$, $CHCl_3$) Source: PI ZHEN YE HUANG ROU NAN *Actinodaphne lancifolia*. Ref: 2011.

**587 Actinolide B**

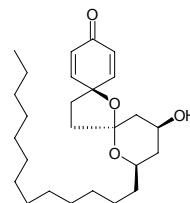
$C_{16}H_{28}O_4$ (284.40). Colorless oil, $[\alpha]_D^{25} = +14.7^\circ$ ($c = 1.00$, $CHCl_3$). Source: PI ZHEN YE HUANG ROU NAN *Actinodaphne lancifolia*. Ref: 2011.

**588 Aculeatin**

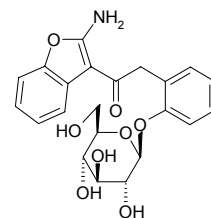
[523-51-3] $C_{16}H_{18}O_5$ (290.32). mp 113°C. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**589 Aculeatin D**

rel-(2*R*,4*S*,6*S*)-4-Hydroxy-2-tridecyl-1,7-dioxo-dispiro[5.1.5.2]pentadeca-9,12-dien-11-one $C_{26}H_{42}O_4$ (418.62). Yellow oil, $[\alpha]_D^{20} = +46.5^\circ$ ($c = 1$, $CHCl_3$). Pharm: Cytotoxic (KB, $IC_{50} = 0.38\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.01\mu\text{g/mL}$; rat skeletal myoblasts L-6, $IC_{50} = 1.00\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 0.42\mu\text{g/mL}$, control Chloroquine, $IC_{50} = 0.09\mu\text{g/mL}$; *Plasmodium falciparum* NF54, $IC_{50} = 0.47\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.004\mu\text{g/mL}$); antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 0.20\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0007\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} = 0.49\mu\text{g/mL}$, Benznidazole, $IC_{50} = 2.1\mu\text{g/mL}$); antibacterial (*Bacillus cereus*, MIC = $16\mu\text{g/mL}$, control Chloramphenicol, MIC = $4\mu\text{g/mL}$; *Escherichia coli*, MIC = $16\mu\text{g/mL}$, Chloramphenicol, MIC = $2\mu\text{g/mL}$; *Staphylococcus epidermidis*, MIC = $8\mu\text{g/mL}$, Chloramphenicol, MIC = $4\mu\text{g/mL}$); antifungal inactive (*Candida albicans*). Source: CI DOU KOU *Amomum aculeatum* (rhizome). Ref: 5176.

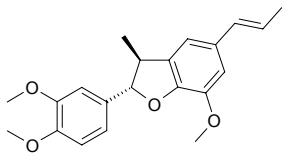
**590 Acuminaminoside**

$C_{22}H_{23}NO_8$ (429.43). Colorless needles (MeOH), mp 212~215°C, $[\alpha]_D^{28} = -33.3^\circ$ ($c = 0.75$, MeOH). Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

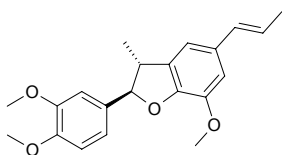


591 Acuminatin

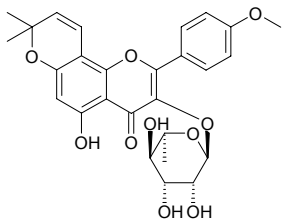
$C_{21}H_{24}O_4$ (340.42). Source: YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 4439.

**592 (+)-Acuminatin**

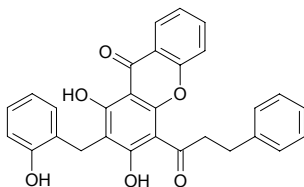
$C_{21}H_{24}O_4$ (340.42). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 56.7 \mu\text{mol/L}$, control Quercetin, $IC_{50} = 26.8 \mu\text{mol/L}$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], JIAN JIAN MU LAN *Magnolia acuminata* Ref: 1521, 2537.

**593 Acuminatin II***

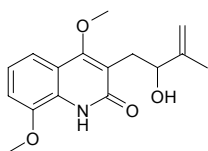
$C_{27}H_{28}O_{10}$ (512.52). Yellow needles, mp 151~152°C. Source: CU MAO YIN YANG HUO *Epimedium acuminatum*. Ref: 230.

**594 Acumitin**

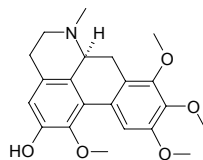
$C_{29}H_{22}O_6$ (466.50). Colorless crystals, mp 186~187°C (CHCl_3). Pharm: Cytotoxic (hmn promyelocytic leukemia HL-60 cells, $IC_{50} = 4.1 \mu\text{mol/L}$). Source: JIAN ZI YU PAN *Uvaria acuminata* (root). Ref: 4261.

**595 Acutifolidin**

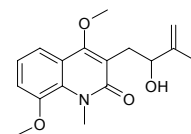
[145237-08-7] $C_{16}H_{19}NO_4$ (289.33). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: JIAN YE HUA JIAO *Zanthoxylum acutifolium*. Ref: 2176.

**596 Acutifolidine**

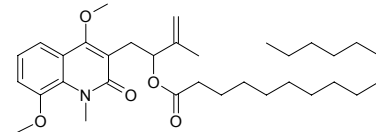
[126595-93-5] $C_{21}H_{25}NO_5$ (371.44). Source: JIAN YE TANG SONG CAO *Thalictrum acutifolium* (root). Ref: 660, 1521.

**597 Acutifolin**

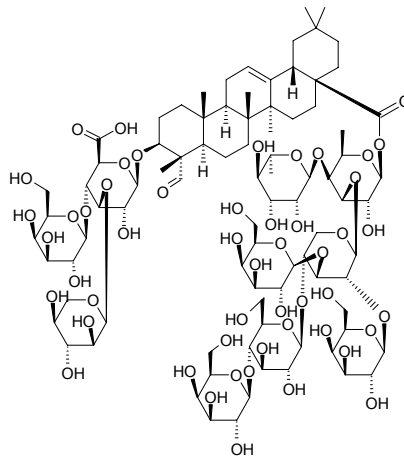
[145237-07-6] $C_{17}H_{21}NO_4$ (303.36). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: JIAN YE HUA JIAO *Zanthoxylum acutifolium*. Ref: 2176.

**598 Acutifolin palmitate**

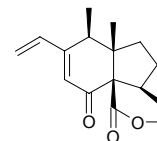
$C_{33}H_{55}NO_5$ (541.78). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: JIAN YE HUA JIAO *Zanthoxylum acutifolium*. Ref: 2176.

**599 Acutifoliside**

$C_{88}H_{140}O_{51}$ (2014.07). Source: HUANG JIE GU DAN *Gypsophila acutifolia*. Ref: 6.

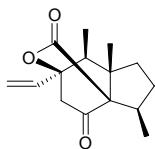
**600 Acutifolone A**

$C_{16}H_{22}O_3$ (262.35). Colorless prisms, mp 102~104°C, $[\alpha]_D^{19} = +2.10^\circ$ ($c = 1.73$, CHCl_3). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

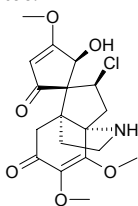


601 Acutifolone B

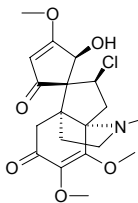
$C_{15}H_{20}O_3$ (248.32). Colorless prisms, mp 138~140°C, $[\alpha]_D^{19} = -94.9^\circ$ ($c = 0.66$, $CHCl_3$). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

**602 Acutumidine**

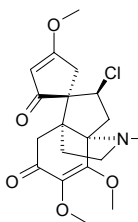
[18145-26-1] $C_{18}H_{22}ClNO_6$ (383.83). mp 239~241°C (dec). Pharm: Antimalarial (similar action with quinine). Source: BIAN FU GE GEN *Menispermum dauricum*, QING FENG TENG *Sinomenium acutum*. Ref: 6, 658.

**603 Acutumine**

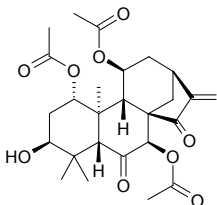
[17088-50-5] $C_{19}H_{24}ClNO_6$ (397.86). mp 238~240°C (dec). Source: BIAN FU GE *Menispermum dauricum*, BIAN FU GE GEN *Menispermum dauricum*, QING FENG TENG *Sinomenium acutum*. Ref: 6.

**604 Acutuminine**

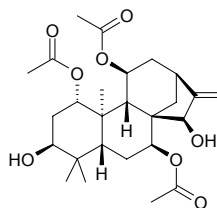
$C_{19}H_{24}ClNO_5$ (381.86). mp 175~177°C. Source: BIAN FU GE *Menispermum dauricum*, BIAN FU GE GEN *Menispermum dauricum*. Ref: 6.

**605 Adenanthin**

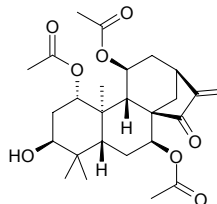
$C_{26}H_{34}O_9$ (490.56). mp 251~255°C, $[\alpha]_D^{13} = -76^\circ$ ($c = 0.25$, $CHCl_3$). Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.015%dw)^[4640]. Ref: 4067, 4640.

**606 Adenanthin B**

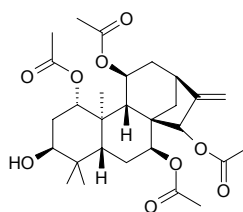
$C_{26}H_{38}O_8$ (478.59). Colorless cubes (acetone), mp 210.5~212.5°C, $[\alpha]_D^{22} = 0^\circ$ ($c = 0.25$, $CHCl_3$). Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.033%dw)^[4640]. Ref: 4067, 4640.

**607 Adenanthin C**

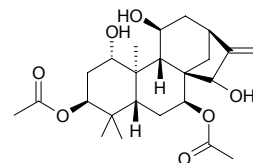
3β-Hydroxy-1α,7β,11β-triacetoxy-ent-kaur-16-en-15-one $C_{26}H_{36}O_8$ (476.57). Colorless cubes (acetone), mp 228~229°C, $[\alpha]_D^{22.5} = -23.2^\circ$ ($c = 0.42$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 3.3\mu g/mL$; control *cis*-Platin, $IC_{50} = 1.9\mu g/mL$)^[4640]. Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.203%dw)^[4640]. Ref: 4067, 4640.

**608 Adenanthin D**

3β-Hydroxy-1α,7β,11β,15β-tetraacetoxy-ent-kaur-16-ene $C_{28}H_{40}O_9$ (520.63). Colorless crystals (acetone), mp 147~148°C, $[\alpha]_D^{27} = +14.4^\circ$ ($c = 0.18$, MeOH). Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0097%dw). Ref: 4640.

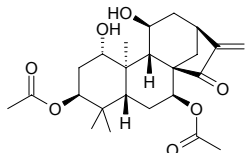
**609 Adenanthin E**

1α,11β,15β-Trihydroxy-3β,7β-diacetoxy-ent-kaur-16-ene $C_{24}H_{36}O_7$ (436.55). Amorphous powder, $[\alpha]_D^{27} = +33.0^\circ$ ($c = 0.27$, MeOH). Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0031%dw). Ref: 4640.

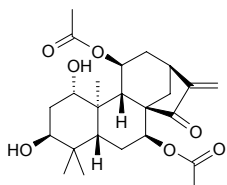


610 Adenanthin F

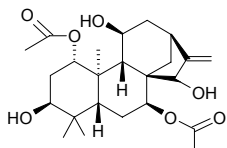
1 α ,11 β -Dihydroxy-3 β ,7 β -diacetoxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Colorless crystals, mp 121–122°C, $[\alpha]_D^{26} = -9.2^\circ$ ($c = 0.33$, MeOH). **Pharm:** Cytotoxic (*in vitro*, K562, IC₅₀ = 3.6 μ g/mL; control *cis*-Platin, IC₅₀ = 1.9 μ g/mL). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0090%dw). **Ref:** 4640.

**611 Adenanthin G**

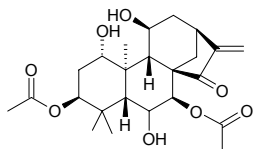
1 α ,3 β -Dihydroxy-7 β ,11 β -diacetoxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Amorphous powder, $[\alpha]_D^{26} = -30.7^\circ$ ($c = 0.49$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.00036%dw). **Ref:** 4640.

**612 Adenanthin H**

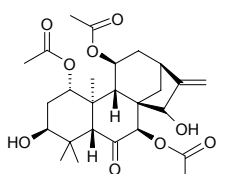
3 β ,11 β ,15 β -Trihydroxy-1 α ,7 β -diacetoxy-*ent*-kaur-16-ene C₂₄H₃₆O₇ (436.55). Colorless crystals, mp 188–190°C, $[\alpha]_D^{27} = -33.3^\circ$ ($c = 0.15$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.00058%dw). **Ref:** 4640.

**613 Adenanthin I**

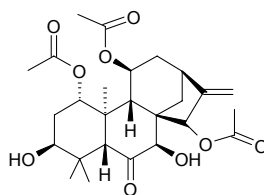
1 α ,6 α ,11 β -Trihydroxy-3 β ,7 β -diacetoxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₈ (450.53). Colorless needles, mp 215–217°C, $[\alpha]_D^{26} = -4.0^\circ$ ($c = 0.46$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0021%dw). **Ref:** 4640.

**614 Adenanthin J**

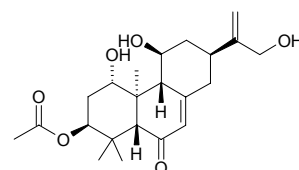
3 β ,15 β -Dihydroxy-1 α ,7 β ,11 β -triacetoxy-*ent*-kaur-16-en-6-one C₂₆H₃₆O₉ (492.57). Amorphous powder, $[\alpha]_D^{27} = -7.9^\circ$ ($c = 0.71$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0025%dw). **Ref:** 4640.

**615 Adenanthin K**

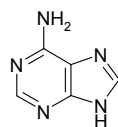
3 β ,7 β -Dihydroxy-1 α ,11 β ,15 β -triacetoxy-*ent*-kaur-16-en-6-one C₂₆H₃₆O₉ (492.57). Amorphous powder, $[\alpha]_D^{26} = -170.5^\circ$ ($c = 0.21$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.00098%dw). **Ref:** 4640.

**616 Adenanthin L**

1 α ,11 β ,16-Trihydroxy-3 β -acetoxy-*ent*-abieta-7,15(17)-dien-6-one C₂₂H₃₂O₆ (392.5). Colorless crystals, mp 272–273°C, $[\alpha]_D^{17} = +28.5^\circ$ ($c = 0.44$, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0092%dw). **Ref:** 4640.

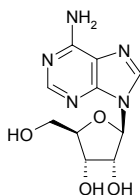
**617 Adenine**

[73-24-5] C₅H₅N₅ (135.13). Trihydrate: white trapezoid acicular crystals, 110°C (dehydrate), 220°C (sub), mp 360–365°C. **Pharm:** Leukopoietic; reagent used in biochemistry research; antioxidant inactive (SOD-like activity, EC₅₀ = 695 μ mol/L, control Gallic acid, EC₅₀ = 31.7 μ mol/L, *L*-Ascorbic acid, EC₅₀ = 34.6 μ mol/L)^[3408]; antioxidant inactive (DPPH scavenger, EC₅₀ > 1000 μ mol/L, Gallic acid, EC₅₀ = 5.88 μ mol/L, *L*-Ascorbic acid, EC₅₀ = 6.25 μ mol/L)^[3408]. **Source:** CHE QIAN *Plantago asiatica*, DANG GUI *Angelica sinensis* (root: content = 0.009%^[5514]), DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.011%^[5512]), FU LING *Poria cocos*, GUI GAI *Coprinus atramentarius*, HU TAO REN *Juglans regia*, HUANG QI *Astragalus membranaceus* (root: content = 0.025%^[5514]), JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], NAN GUA *Cucurbita moschata*, PING CHE QIAN *Plantago depressa*, QIE ZI *Solanum melongena*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.023%^[5512]), REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (root: content = 0.0034%^[5514]), SANG YE *Morus alba*, SU TIE SHU GUO *Cycas revoluta*, TIAN NAN XING *Arisaema consanguineum* (dried tuber: mean content = 0.018%^[5508]), XIANG XUN *Lentinus edodes*, ZI YUN YING *Astragalus sinicus*. **Ref:** 658, 661, 3408, 5501, 5508, 5512, 5514.

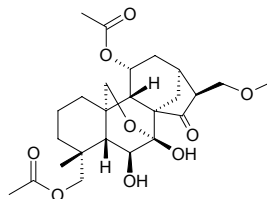


618 Adenine nucleoside

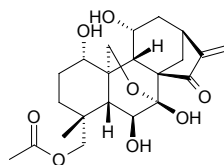
Adenosine; 9- β -D-Ribofuranosyl-9H-purin-6-amine; Adenine riboside [58-61-7] C₁₀H₁₃N₅O₄ (267.25). Crystals (H₂O), mp 234–236°C, [α]_D¹¹ = –61.7° (c = 0.7, H₂O); white acicular crystals, mp 233.5–234.5°C (alcohol), [α]_D²⁴ = –60.2° (c = 0.49, H₂O); mp 235–236°C, soluble in water, insoluble in EtOH. **Pharm:** Antiarrhythmic; tyrosinase inhibitor (333.3 μ mol/L, InRt = 21.6%; control Kojic acid, 333.3 μ mol/L, InRt = 59.8%)^[4233]; CNS stimulant; antifungal inactive (hmm pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*); antioxidant inactive (DPPH scavenger, EC₅₀ > 50 μ g/mL, 50 μ g/mL, InRt = 4%, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]; antioxidant inactive (SOD-like activity, EC₅₀ > 1000 μ mol/L, control Gallic acid, EC₅₀ = 31.7 μ mol/L, L-Ascorbic acid, EC₅₀ = 34.6 μ mol/L)^[3408]; antioxidant inactive (DPPH scavenger, EC₅₀ > 1000 μ mol/L, control Gallic acid, EC₅₀ = 5.88 μ mol/L, L-Ascorbic acid, EC₅₀ = 6.25 μ mol/L)^[3408]. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*, BAI FAN DOU *Phaseolus vulgaris*, BAN LAN GEN *Isatis indigotica*, BAO JING KU MAI CAI *Ixeris sonchifolia*, BEI SHA SHEN *Glehnia littoralis* (fruit), BEI SHA SHEN *Glehnia littoralis* (underground part), CANG ZHU *Atractylodes lancea*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DA QING YE *Isatis indigotica*, DA SUAN *Allium sativum*, DANG GUI *Angelica sinensis* (root: content = 0.027%^[5514]), DONG BEI HE SHI *Lappula echinata*, DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.030%^[5512]), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GAN SU BEI MU *Fritillaria przewalskii*, GOU GU SHU PI *Ilex cornuta*, GOU GU YE *Ilex cornuta*, GUAN HUA ROU CONG RONG *Cistanche tubulosa* (fleshy stem: content = 0.009%^[5514]), HONG HUA *Carthamus tinctorius* (flower oil: content scope of 4 origins = 0.0038%–0.039%, mean content = 0.0175%^[5508]), HONG MAO WU JIA PI *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], HU BEI SHAN MAI DONG *Liriope spicata* var. *prolifera*, HU DIE HUA DOU *Clitoria ternatea*, HU TAO REN *Juglans regia*, HUANG QI *Astragalus membranaceus* (root: content = 0.010%^[5514]), JIU CAI *Allium tuberosum*, JUAN BAI *Selaginella tamariscina* (dried whole herb: content scope = 0.317%–0.846%^[5508]), LING ZHI *Ganoderma lucidum*, LING ZHI *Ganoderma lucidum* (dried sporocarp: content = 0.002%^[5508]), MA BIAN CAO *Verbena officinalis*, MAI DONG *Ophiopogon japonicus* (tuberoid: content = trace^[5514]), PING BEI MU *Fritillaria ussuriensis*, QI BAI ZHI *Angelica dahurica* cv. *Qibaizhi*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.250%^[5512]), REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (root: content = 0.038%^[5514]), SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XIE BAI *Allium macrostemon*, YANG CONG *Allium cepa*, YONG CHONG CAO *Cordyceps militaris*, ZANG HONG HUA *Crocus sativus* (pollen), ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00033%^[4653]), ZHANG YE BAN XIA *Pinellia pedatisecta*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], widely distributed in nature. **Ref:** 569, 660, 900, 1521, 2576, 3408, 3525, 4154, 4233, 4348, 4653, 5501, 5507, 5508, 5512, 5514.

**619 Adenolin A**

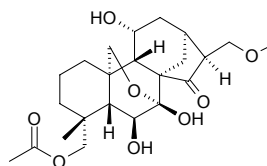
C₂₅H₃₆O₉ (480.56). mp 182–184°C, [α]_D¹⁹ = –121.7°. **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha*. **Ref:** 4067.

**620 Adenolin B**

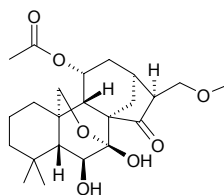
C₂₃H₃₀O₈ (422.48). mp 253–255°C, [α]_D¹⁹ = –204.5°. **Source:** SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 4067.

**621 Adenolin C**

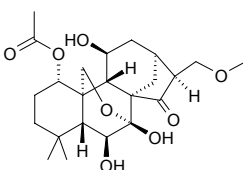
C₂₃H₃₄O₈ (438.52). mp 214–216°C, [α]_D¹⁹ = –100.8°. **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha*. **Ref:** 4067.

**622 Adenolin D**

C₂₃H₃₄O₇ (422.52). mp 204–206°C, [α]_D¹⁹ = –78.9°. **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha*. **Ref:** 4067.

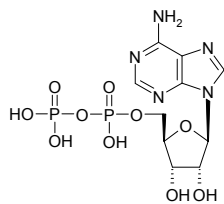
**623 Adenolin E**

C₂₃H₃₄O₈ (438.52). mp 213.5–215°C, [α]_D¹⁹ = –82.9°. **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha*. **Ref:** 4067.

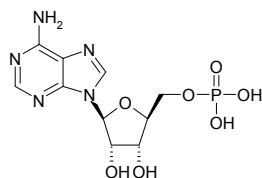


624 Adenosine diphosphate

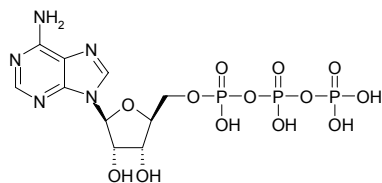
$C_{10}H_{15}N_5O_{10}P_2$ (427.21). Source: XIANG XUN *Lentinus edodes*. Ref: 660.

**625 5'-Adenosine monophosphate**

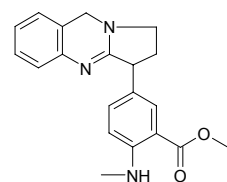
[61-19-8] $C_{10}H_{14}N_5O_7P$ (347.23). mp 195°C. Source: MO GU *Agaricus campestris*. Ref: 6.

**626 Adenosine triphosphate**

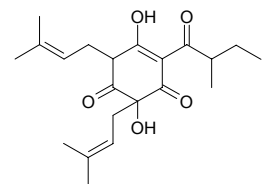
[56-65-5] $C_{10}H_{16}N_5O_{13}P_3$ (507.19). Pharm: Coenzyme of energy transfer in phosphate bonds; reagent used in biochemistry research. Source: HA SHI MA *Rana temporaria chensinensis*; *Rana amurensis*, LU RONG *Cervus nippon*; *Cervus elaphus*, QING WA *Rana nigromaculata*; *Rana plancyi*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2, 6, 658.

**627 Adhatodine**

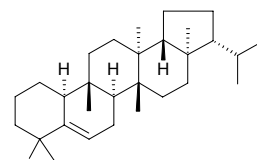
[33903-14-9] $C_{20}H_{21}N_3O_2$ (335.41). mp 183°C. Source: DA BO GU *Adhatoda vasica*. Ref: 6.

**628 Adhumulone**

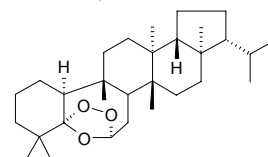
$C_{21}H_{30}O_5$ (362.47). Source: PI JIU HUA *Humulus lupulus*. Ref: 660.

**629 Adianene**

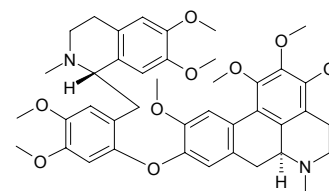
$C_{30}H_{50}$ (410.73). Source: DAN GAI TIE XIAN JUE *Adiantum monochlamys*. Ref: 660.

**630 Adian-5-ene ozonide**

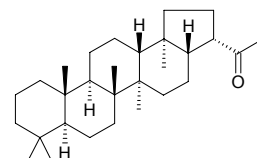
$C_{30}H_{50}O_3$ (458.73). Source: DAN GAI TIE XIAN JUE *Adiantum monochlamys*, GAO SHAN TIAO JUE *Oleandra wallichii*. Ref: 660, 1521.

**631 Adiantifoline**

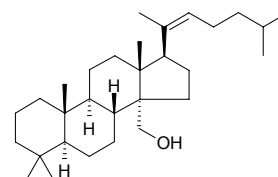
[20823-96-5] $C_{42}H_{50}N_2O_9$ (726.87). Dark yellow acicular crystals (alcohol), thin acicular crystals (alcohol-ether), mp 142–143°C, dark yellow needle crystals (anhydrous alcohol), mp 143.5–144°C, $[\alpha]_D^{28} = +90^\circ$ ($c = 0.11$, methanol). Pharm: Antihypertensive (rbt, 1mg/kg, blood pressure is lowered by 3.33kPa for 2min); supertoxic agent. Source: HE NAN TANG SONG CAO *Thalictrum honanense*, TIE XIAN JUE YE TANG SONG CAO *Thalictrum minus* var. *adiantifolium*. Ref: 1, 537.

**632 Adiantone**

[1253-69-6] $C_{29}H_{48}O$ (412.71). mp 222–224°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum*, GUAN ZHONG *Dryopteris crassirhizoma*, TIE SI QI *Adiantum pedatum*, ZHU ZONG CAO *Adiantum capillus-veneris*. Ref: 6.

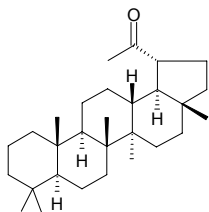
**633 Adiantulanosterol**

Lanost-20(22)-ene-30-ol $C_{30}H_{52}O$ (428.75). Colorless crystals, mp 170–172°C, $[\alpha]_D^{20} = -29.4^\circ$ ($c = 0.07$, $CHCl_3$). Source: XI YE TIE XIAN JUE *Adiantum venustum* (aerial parts). Ref: 3957.

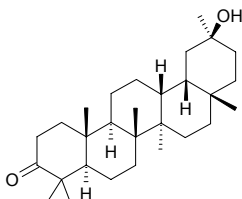


634 Adiantulupanone

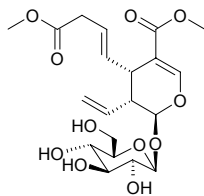
30-Normethyl lupane-20-one $C_{29}H_{48}O$ (412.71). Colorless rhombic crystals, mp 212~215°C. Source: XI YE TIE XIAN JUE *Adiantum venustum* (aerial parts). Ref: 3957.

**635 Adiantuoleanone**

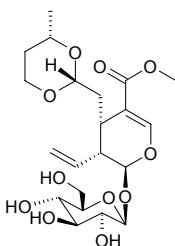
30-Normethyl olean-3-on-30 β -ol $C_{29}H_{48}O_2$ (428.70). mp 268~269°C. Source: XI YE TIE XIAN JUE *Adiantum venustum* (aerial parts). Ref: 3957.

**636 Adinoside A**

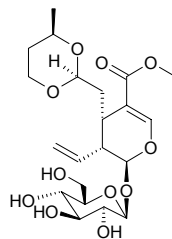
$C_{20}H_{28}O_{11}$ (444.44). Amorphous powder, $[\alpha]_D^{26} = -40^\circ$ ($c = 0.5$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00073%dw). Ref: 4723.

**637 Adinoside B**

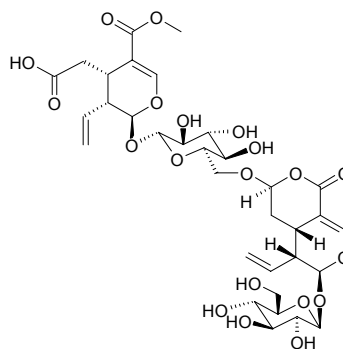
$C_{21}H_{32}O_{11}$ (460.48). Amorphous powder, $[\alpha]_D^{31} = -111^\circ$ ($c = 0.93$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0031%dw). Ref: 4723.

**638 Adinoside C**

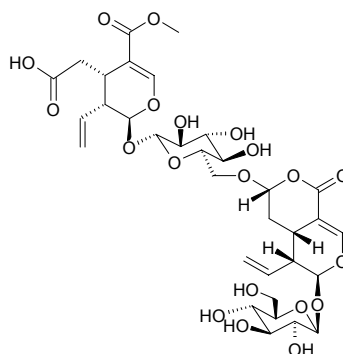
$C_{21}H_{32}O_{11}$ (460.48). Amorphous powder, $[\alpha]_D^{23} = -134^\circ$ ($c = 0.5$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0037%dw). Ref: 4723.

**639 Adinoside D**

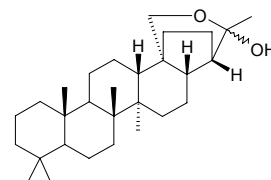
$C_{33}H_{44}O_{20}$ (760.71). Amorphous powder, $[\alpha]_D^{28} = -137^\circ$ ($c = 1.0$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0042%dw). Ref: 4723.

**640 Adinoside E**

$C_{33}H_{44}O_{20}$ (760.71). Amorphous powder, $[\alpha]_D^{28} = -181^\circ$ ($c = 1.0$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0023%dw). Ref: 4723.

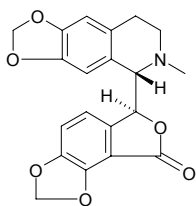
**641 Adipedatol**

[13843-87-3] $C_{29}H_{48}O_2$ (428.70). mp 185~188°C. Source: TIE SI QI *Adiantum pedatum*. Ref: 6.

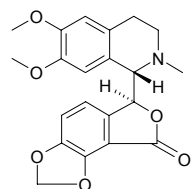


642 Adlumidine

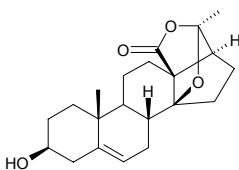
Bicuculline [550-49-2] $C_{20}H_{17}NO_6$ (367.36). Orthogonal lamellar crystals ($CHCl_3$ -MeOH), mp 236~238°C; 215°C, $[\alpha]_D^{25} = +116.2^\circ$ ($c = 22$, $CHCl_3$), almost insoluble in water, very slightly soluble in alcohol, ether and ethane. **Pharm:** γ -Aminobutyric acid antagonist; eclampptogenic, acts violently, attacks quickly and persistently; uterine stimulant. **Source:** BIAN BING HUANG JIN *Corydalis mucronifera*, DOU ZHUANG HE BAO MU DAN *Dicentra cucullaria*, QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.03%^[5508]), TU YAN HU *Corydalis repens* var. *humosides*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.15%^[5508]), XUN ZHUANG SHAN YUAN CAO *Adlumia cirrhosa* [Syn. *Adlumia fungosa*], ZI HUA YU DENG CAO *Corydalis incisa*, YAN HUANG LIAN *Corydalis thalictrifolia*. **Ref:** 1, 6, 5508.

**643 Adlumine**

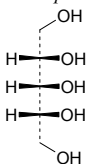
[524-46-9] $C_{21}H_{21}NO_6$ (383.40). **Pharm:** Inhibits heart; uterine stimulant; smooth muscle stimulant (small intestinal). **Source:** CANG BAI ZI JIN *Corydalis sempervirens*, MEI GUI HONG JIN *Corydalis rosea*, SHE GUO HUANG JIN *Corydalis ophiocarpa*, SI KAO LE ZI JIN *Corydalis scouleri*, TIAO LIE HUANG JIN *Corydalis linearoides*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*], XUN ZHUANG SHAN YUAN CAO *Adlumia cirrhosa* [Syn. *Adlumia fungosa*]. **Ref:** 1, 5501.

**644 Adonilide**

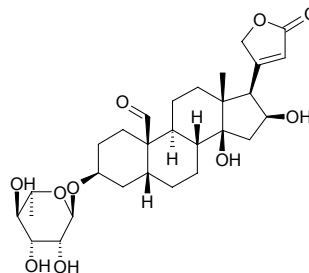
[21132-14-9] $C_{21}H_{28}O_4$ (344.45). mp 268~270°C. **Source:** FU SHOU CAO *Adonis amurensis*. **Ref:** 6.

**645 Adonitol**

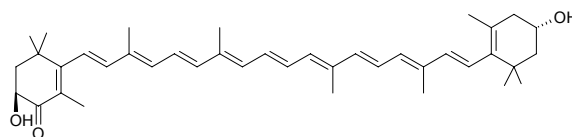
1,2,3,4-Pentanepentol [488-81-3] $C_5H_{12}O_5$ (152.15). mp 104°C, soluble in water and ethanol. **Source:** CHAI HU *Bupleurum chinense*, JI CAI *Capsella bursa-pastoris*. **Ref:** 2.

**646 Adonitoxin**

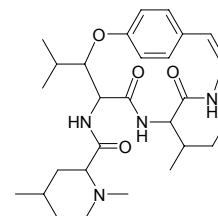
[17651-61-5] $C_{29}H_{42}O_{10}$ (550.66). $[\alpha]_D^{22} = -19.9^\circ$ ($c = 0.33$, MeOH)^[5507]. **Pharm:** Toxin (vertebrate)^[658]; cardiotoxic^[5507]. **Source:** BEI CE JIN ZHAN HUA *Adonis sibirica*^[5507], CHUN FU SHOU CAO *Adonis vernalis*^[658], FU ER JIA CE JIN ZHAN HUA *Adonis wolgensis*^[5507]. **Ref:** 658, 5507.

**647 Adonixanthin**

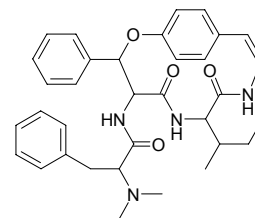
$C_{40}H_{54}O_3$ (582.87). **Source:** QIU FU SHOU CAO *Adonis annua* **Ref:** 660.

**648 Adouetine X**

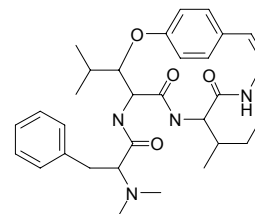
[19542-37-1] $C_{28}H_{44}N_4O_4$ (500.69). mp 277~279°C. **Source:** HE TA CAO *Waltheria americana*. **Ref:** 6.

**649 Adouetine Y**

[19542-38-2] $C_{34}H_{40}N_4O_4$ (568.72). mp 292°C. **Source:** HE TA CAO *Waltheria americana*. **Ref:** 6.

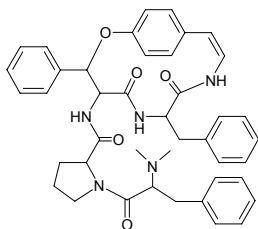
**650 Adouetine Y'**

[19542-39-3] $C_{31}H_{42}N_4O_4$ (534.70). mp 289.0~290.5°C. **Source:** HE TA CAO *Waltheria americana*. **Ref:** 6.

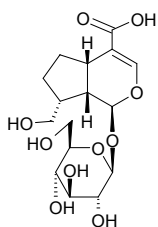


651 Adouetine Z

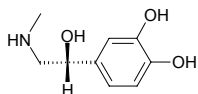
[19542-40-6] C₄₂H₄₅N₅O₅ (699.86). mp 140~145°C. **Pharm:** Antipyretic (low dose); causes anorexia (high dose); antihypertensive; sedative (low dose); LD₅₀ (mus) = 52.5mg/kg. **Source:** HE TA CAO *Waltheria americana*. **Ref:** 1, 6.

**652 Adoxosidic acid**

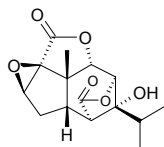
C₁₆H₂₄O₁₀ (376.36). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**653 Adrenaline**

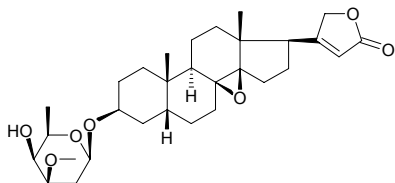
L-Epinephrine [51-43-4] C₉H₁₃NO₃ (183.21). mp 211~212°C, soluble in acetic acid. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, JIN YU *Carassius auratus*, WEI NAO *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, WEI XIN GAN *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, XIANG JIAO *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*]. **Ref:** 6, 660, 1521.

**654 Aduncin**

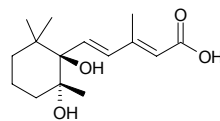
C₁₅H₁₈O₆ (294.31). **Source:** GOU ZHUANG SHI HU *Dendrobium aduncum*. **Ref:** 660.

**655 Adynerin**

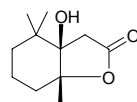
[35109-93-4] C₃₀H₄₄O₇ (516.68). mp 234°C. **Pharm:** Toxin (vertebrate). **Source:** JIA ZHU TAO *Nerium indicum*, OU ZHOU JIA ZHU TAO *Nerium oleander*. **Ref:** 6, 658.

**656 Aeginetic acid**

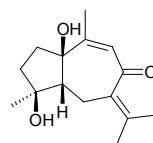
[53337-92-1] C₁₅H₂₄O₄ (268.36). mp 205°C. **Source:** YE GU *Aeginetia indica*. **Ref:** 6.

**657 Aeginetolide**

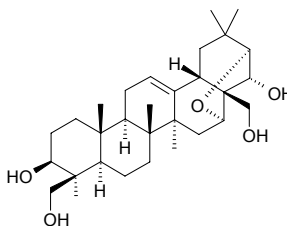
[53337-93-2] C₁₁H₁₈O₃ (198.26). mp 169~170°C. **Source:** YE GU *Aeginetia indica*. **Ref:** 6.

**658 Aerugidiol**

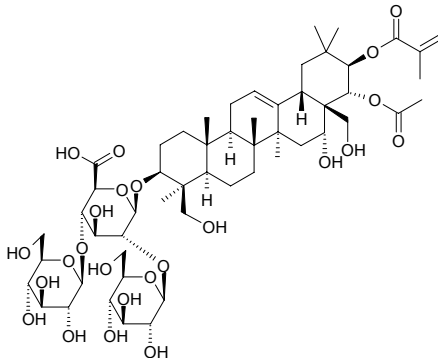
C₁₅H₂₂O₃ (250.34). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (12.5±1.6)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660, 4150.

**659 Aescigenin**

[17806-68-7] C₃₀H₄₈O₅ (488.71). mp 307°C, mp 317~318°C. **Source:** RI BEN QI YE SHU *Aesculus turbinata*. **Ref:** 6, 660.

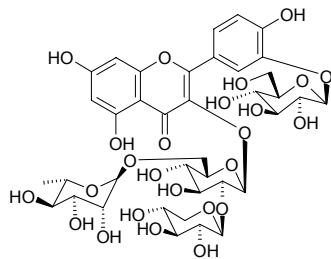
**660 Aescin**

21-*O*-Angeloyl-22-*O*-acetylprotoaescigenin-3-*O*-[β-*D*-glucopyranosyl(1→2)][β-*D*-glucopyranosyl(1→4)]-β-*D*-glucopyranosiduronic acid C₅₅H₈₆O₂₄ (1131.29). **Pharm:** Antineoplastic; antifungal; anti-inflammatory (mus, assay of Dimethyl benzene-induced inflammation, dose 30mg/kg, InRt = 71.5%; control Dexamethasone, dose 1mg/kg, InRt = 55.6%); astringent; hemolytic. **Source:** OU ZHOU QI YE SHU *Aesculus hippocastanum*, QI YE SHU *Aesculus chinensis* (seed), SUO LUO ZI *Aesculus wilsonii*. **Ref:** 658, 2578.

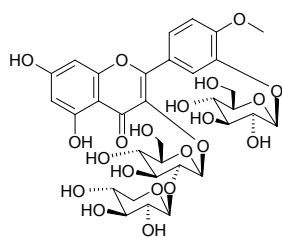


661 Aesculflavoside

Quercetin-3-*O*-[β -*D*-xylopyranosyl(1 \rightarrow 2)]-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside-3'-*O*- β -*D*-glucopyranoside C₃₈H₄₈O₂₅ (904.79). Yellow powder, $[\alpha]_D^{22} = -107.8^\circ$ ($c = 1.25$, MeOH). **Pharm:** Antiviral (*in vitro*, RSV, IC₅₀ = 4.5 μ g/mL, CC₅₀ = 71.3 μ g/mL; Para-3, IC₅₀ = 35.6 μ g/mL, CC₅₀ = 71.3 μ g/mL; Flu-A, IC₅₀ > 100 μ g/mL, CC₅₀ = 107.5 μ g/mL; control Ribavirin: RSV, IC₅₀ = 2.6 μ g/mL, CC₅₀ = 62.5 μ g/mL; PIV3, IC₅₀ = 2.6 μ g/mL, CC₅₀ = 62.5 μ g/mL; Flu-A, IC₅₀ = 62.5 μ g/mL, CC₅₀ > 125 μ g/mL)^[4740]. **Source:** QI YE SHU *Aesculus chinensis* (seed). **Ref:** 4740.

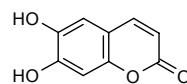
**662 Aesculflavoside A**

4'-Methoxyquercetin-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside-3'-*O*- β -*D*-glucopyranoside C₃₃H₄₀O₂₁ (772.67). Yellow powder, $[\alpha]_D^{22} = -102.1^\circ$ ($c = 0.25$, MeOH). **Source:** QI YE SHU *Aesculus chinensis* (seed). **Ref:** 4740.

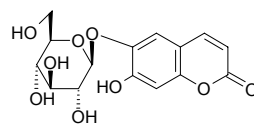
**663 Aesculetin**

Esculetin; Cichorigenin [305-01-1] C₉H₆O₄ (178.15). Rhomboid crystals (icy acetic acid); leaflike crystals (sub under vacuum); mp 268~270°C; mp 242~248°C (dec). **Pharm:** Antiasthmatic; antibacterial (*Bacillus coli* and *Staphylococcus aureus in vitro*); antifungal; anti-inflammatory (swollen foot model caused by carrageenan, large dose, inhibits increase of blood capillary permeability induced by histamine); antitussive (dispels phlegm); LD (mus, sc) = 250mg/kg. **Source:** BAI LA SHU *Fraxinus chinensis*, CEN PI *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*] (bark: content scope = 0.122%~1.01%^[5501]), HENG GEN FEI CAI *Sedum kamschaticum*, HUA BAI LA SHU *Fraxinus ornus*, HUANG GUO QIE *Solanum xanthocarpum*, JIAN YE CEN *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], JU QU *Cichorium intybus*, LANG PA CAO *Bidens tripartita*, LI MENG *Citrus limonia*, LIU YE CEN *Fraxinus stylosa* (bark: mean content = 0.14%^[5508]), LONG YAN DU HUO *Aralia fargesii*, MAO YAN CAO *Euphorbia lunulata*, NING MENG YE *Citrus limon*, OU ZHOU QI YE SHU *Aesculus hippocastanum* (in 1938 the compound was isolated from the plant by Genya Shimada)^[5505], PI HAN CAO *Melilotus suaveolens*, QIAN JIN ZI *Euphorbia lathyris* (dried ripe seed: mean content of 3 origins = 0.238%^[5508]), QIN LING BAI LA SHU *Fraxinus paxiana* (bark: content = 0.05%^[5508]), RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RI BEN QI YE SHU *Aesculus turbinata*, SHUI QU LIU *Fraxinus mandshurica* (bark: content = 0.06%^[5508]), XI LA GANG LIU

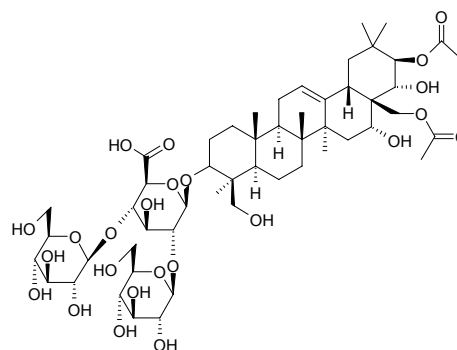
Periploca graeca, XIAO YE CEN *Fraxinus bungeana*, XIE WEI JU *Koelpinia linearis*, YI WO SI JING TIAN *Sedum ewersii*, YING GUO OU SHI NAN *Erica vagans*, ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*], occurs in many plants. **Ref:** 4, 6, 572, 658, 660, 661, 4502, 5501, 5505, 5508.

**664 Aesculin**

Bicoloirin; Esculin [531-75-9] C₁₅H₁₆O₆ (340.29). Sesquihydrate, acicular (hot water), mp 204~206°C, $[\alpha]_D^{18} = -78.4^\circ$ ($c = 2.5$, 50% dioxane). **Pharm:** Antibacterial; platelet aggregation inhibitor; anti-inflammatory (rat: swollen foot model caused by carrageenan, 10mg/kg ip, InRt = 35%, caused by glucosan, 10mg/kg ip, InRt = 28%, caused by 5-HT, 10mg/kg ip, InRt = 20%, caused by histamine, 10mg/kg ip, InRt = 8%; gpg: erythema reaction on back from ultraviolet irradiation); inhibits increase of blood capillary permeability (gpg, induced by histamine); diuretic (mus); inhibits carcinogenic action of chemicals; aldose reductase inhibitor (rat eye lens). **Source:** CEN PI *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*] (bark: content scope = 2.63%~6.79%^[5501]), HUA BAI LA SHU *Fraxinus ornus*, JIAN YE CEN *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], JU QU *Cichorium intybus*, LIU YE CEN *Fraxinus stylosa* (bark: mean content = 1.77%^[5508]), OU MAN TUO LUO GEN *Datura stramonium*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, PI HAN CAO *Melilotus suaveolens*, QIAN JIN ZI *Euphorbia lathyris* (content scope = 0.88%~1.17%^[5501]), QIN LING BAI LA SHU *Fraxinus paxiana* (bark: content = 0.02%^[5508]), SHUI QU LIU *Fraxinus mandshurica* (bark: content = 0.03%^[5508]), TU LIAN QIAO *Hymenodictyon excelsum*, XIAO YE CEN *Fraxinus bungeana*, YING GUO SHAN ZHA *Crataegus oxyacantha*. **Ref:** 4, 6, 660, 661, 5501, 5508.

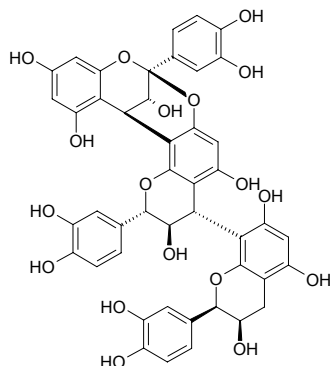
**665 Aesculidide A**

21,28-Di-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosiduronic acid C₅₂H₈₂O₂₄ (1091.22). White powder, $[\alpha]_D^{25} = -11.2^\circ$ ($c = 1.25$, MeOH). **Source:** QI YE SHU *Aesculus chinensis* (seed). **Ref:** 2578.



666 Aesculitannin B

$C_{45}H_{36}O_{18}$ (864.78). Pale yellow amorphous powder, $[\alpha]_D^{21} = +125.3^\circ$ ($c = 1.92$, MeOH). Source: CHANG JIE ZHU *Parameria laevigata* (bark). Ref: 3523.

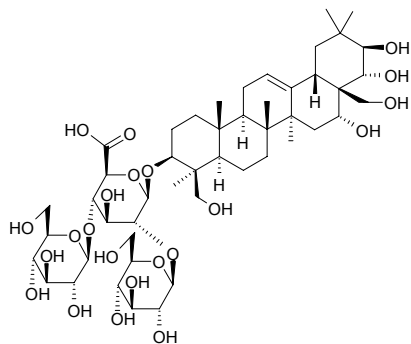
**667 Aesculuside B**

Desacylescigenin I;

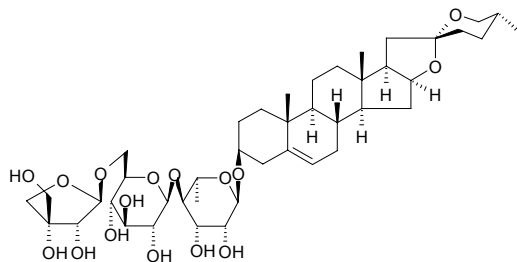
Protoaescigenin-3-*O*-[β -D-glucopyranosyl(1 \rightarrow 2)][β -D-glucopyranosyl(1 \rightarrow 4)]- β -D-glucopyranosiduronic acid [26339-92-4] $C_{48}H_{78}O_{22}$ (1007.14).

Colorless fine crystals, mp 260–262°C, $[\alpha]_D^{25} = -33.9^\circ$ ($c = 1.15$, MeOH).

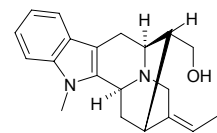
Source: QI YE SHU *Aesculus chinensis* (seed). Ref: 2578, 3528.

**668 Aferoside A**

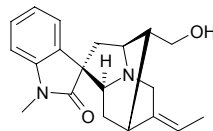
$C_{43}H_{68}O_{16}$ (841.01). Pharm: Anti-inflammatory (used to treatment of arthritis). Source: FEI ZHOU BI QIAO JIANG *Costus afer*. Ref: 2165.

**669 Affinisine**

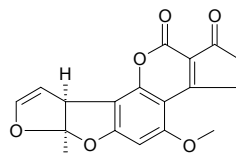
[2912-11-0] $C_{20}H_{24}N_2O$ (308.42). Pharm: Analgesic (rat); CNS depressant (mus). Source: DA YE TANG JIAO SHU *Alstonia macrophylla*. Ref: 658.

**670 Affinisine oxindole**

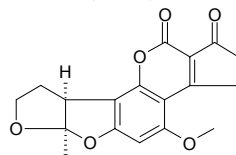
$C_{20}H_{24}N_2O_2$ (324.43). Light yellowish oil, $[\alpha]_D = -70^\circ$ ($c = 0.06$, $CHCl_3$). Source: XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). Ref: 3780.

**671 Aflatoxin B₁**

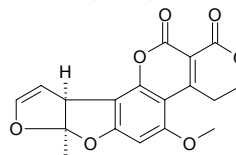
$C_{17}H_{12}O_6$ (312.28). Source: WU HUA GUO *Ficus carica*. Ref: 660.

**672 Aflatoxin B₂**

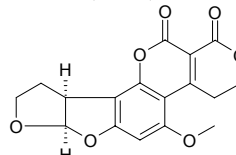
$C_{17}H_{14}O_6$ (314.30). Source: WU HUA GUO *Ficus carica*. Ref: 660.

**673 Aflatoxin G₁**

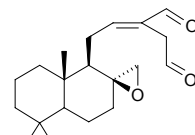
$C_{17}H_{12}O_7$ (328.28). Source: WU HUA GUO *Ficus carica*. Ref: 660.

**674 Aflatoxin G₂**

$C_{17}H_{14}O_7$ (330.30). Source: WU HUA GUO *Ficus carica*. Ref: 660.

**675 Aframodial**

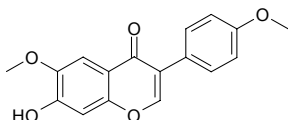
(*E*)-8 β (17)-Epoxyabd-12-ene-15,16-dial [115795-58-9] $C_{20}H_{30}O_3$ (318.46). Colorless acicular crystals (methanol–water), mp 90–92°C, $[\alpha]_D = +27.3^\circ$ ($c = 0.27$, $CHCl_3$). Pharm: Antibacterial (gram-negative, gram-positive bacteria and *Penicillium aureus*); antifungal (*Candida albicans*, MIC = 12.5 μ g/mL); cytotoxic (KB, ED₅₀ = 22.5 μ g/mL); antihypercholesterolemic (rat liver homogenate, inhibits biosynthesis of cholesterol); antimalarial (*in vitro*, *Plasmodium falciparum* 3D7, IC₅₀ = (24.3 \pm 0.6) μ g/mL = (76.3 \pm 1.9) μ mol/L)^[3022]. Source: DA LIANG JIANG *Alpinia galanga*, DUO NI FEI SHA REN *Aframomum daniellin*, SHENG JIANG *Zingiber officinale*. Ref: 983, 1139, 1140, 1521, 3022.



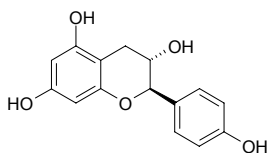
676 Afrormosin

Castanin [550-79-8] C₁₇H₁₄O₅ (298.30). Colorless needles, mp 236–237°C.

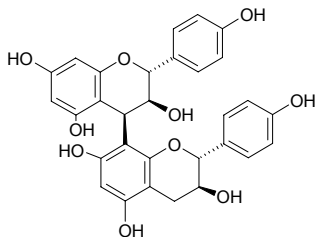
Pharm: Antifungal; antimalarial (*Plasmodium falciparum* PoW, IC₅₀ = (36.6±3.3)µg/mL, control Chloroquine diphosphate, IC₅₀ = (0.006±0.002)µg/mL; Dd2, IC₅₀ = (38.5±7.3)µg/mL, Chloroquine diphosphate, IC₅₀ = (0.06±0.01)µg/mL)^[5208]. **Source:** MI HUA DOU *Spatholobus suberectus*, KUN MING JI XUE TENG *Milletia dielsiana*, WU CI KE YA SHU *Andira inermis* (leaf), XI FEI HONG DOU SHU *Afrormosia elata*. **Ref:** 658, 2205, 5208.

**677 Afzelechin**

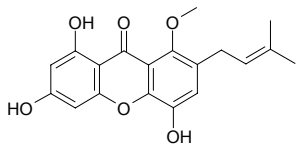
C₁₅H₁₄O₅ (274.28). **Source:** HAI ER CHA *Acacia catechu*. **Ref:** 660.

**678 Afzelechin-(4α→8)-afzelechin**

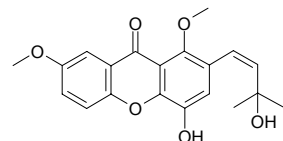
[101339-37-1] C₃₀H₂₆O₁₀ (546.54). **Pharm:** Tanning agent. **Source:** QIU QIE SHU *Kandelia candel*. **Ref:** 658.

**679 Afzeliixanthone A**

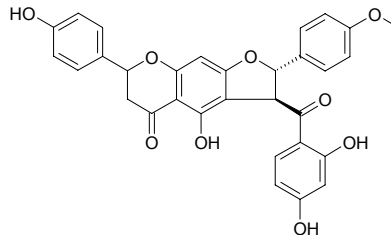
C₁₉H₁₈O₆ (342.35). Yellow oil. **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 0.177µg/mL, control BHA, IC₅₀ = 0.135µg/mL, Vitamin E, IC₅₀ = 0.138µg/mL). **Source:** A FU ZE LI SHAN ZHU ZI *Garcinia afzelii* (stem bark: yield = 0.00006%dw)^[2084]. **Ref:** 2084.

**680 Afzeliixanthone B**

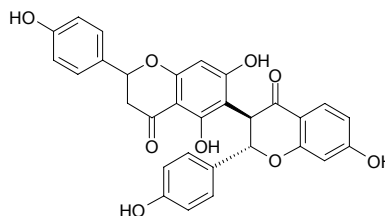
C₂₀H₂₀O₆ (356.38). Yellow oil. **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 0.140µg/mL, control BHA, IC₅₀ = 0.135µg/mL, Vitamin E, IC₅₀ = 0.138µg/mL). **Source:** A FU ZE LI SHAN ZHU ZI *Garcinia afzelii* (stem bark: yield = 0.00007%dw)^[2084]. **Ref:** 2084.

**681 Afzelone A**

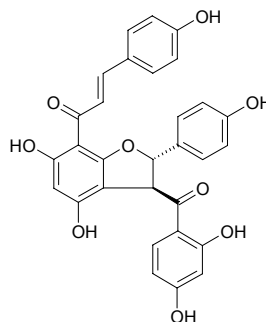
C₃₁H₂₄O₉ (540.53). Amorphous pale yellow solid, [α]_D²⁵ = +193° (c = 0.4, Me₂CO). **Source:** *Ochna afzelii*. **Ref:** 3449.

**682 Afzelone B**

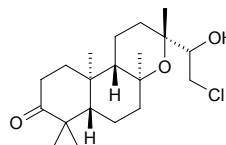
C₃₀H₂₂O₉ (526.50). Amorphous pale yellow solid, [α]_D²⁵ = -19° (c = 0.6, Me₂CO). **Source:** *Ochna afzelii*. **Ref:** 3449.

**683 Afzelone C**

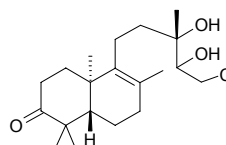
C₃₀H₂₂O₉ (526.50). **Source:** *Ochna afzelii*. **Ref:** 3449.

**684 Agallochin A**

3-Oxo-*ent*-13epi-8(13)-epoxy-15-chloro-14-hydroxylabdane C₂₀H₃₃ClO₃ (356.94). Colorless needles (MeOH), mp 145–148°C, [α]_D²⁵ = -38.0° (c = 1.5, CHCl₃). **Source:** HAI QI *Excoecaria agallocha* (root). **Ref:** 5114.

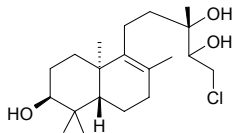
**685 Agallochin B**

ent-15-Chloro-13,14-dihydroxylabd-8(9)-en-3-one C₂₀H₃₃ClO₃ (356.94). Colorless needles (MeOH), mp 157–159°C, [α]_D²⁵ = -45.1° (c = 1.75, CHCl₃). **Source:** HAI QI *Excoecaria agallocha* (root). **Ref:** 5114.

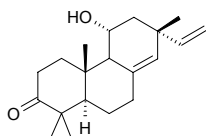


686 Agallochin C

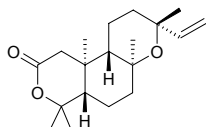
ent-15-Chloro-labd-8(9)ene-3 α ,13,14-triol C₂₀H₃₅ClO₃ (358.95). Colorless oil, $[\alpha]_D^{25} = -26.4^\circ$ ($c = 1.7$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**687 Agallochin D**

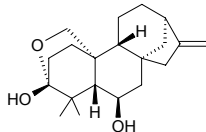
ent-11 β -Hydroxy-8(14),15-isopimaradien-3-one C₂₀H₃₀O₂ (302.46). Colorless needles, mp 145~148°C, $[\alpha]_D^{25} = +45.3^\circ$ ($c = 1.9$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**688 Agallochin E**

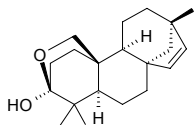
8,13-Epoxy-3-nor-2,3-seco-14-epilabden-2,4-olide C₁₉H₃₀O₃ (306.45). Colorless needles, mp 140~142°C, $[\alpha]_D^{25} = -101.2^\circ$ ($c = 1.6$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**689 Agallochin F**

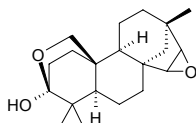
ent-3 β ,20-Epoxy-3 α ,6 α -dihydroxykaur-16-ene C₂₀H₃₀O₃ (318.46). Colorless oil, $[\alpha]_D^{25} = -21.6^\circ$ ($c = 1.2$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root; yield = 0.00075%dw). Ref: 4613.

**690 Agallochin G**

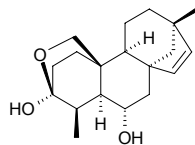
3 β ,20-Epoxy-3 α -hydroxybeyer-15-ene C₂₀H₃₀O₂ (302.46). Colorless needles (MeOH), mp 152~54°C, $[\alpha]_D^{25} = -59.2^\circ$ ($c = 1.9$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root; yield = 0.00088%dw). Ref: 4613.

**691 Agallochin H**

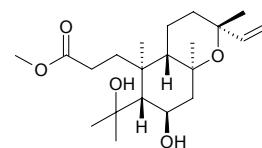
3 β ,20:15R,16S-Diepoxy-3 α -beyeranol C₂₀H₃₀O₃ (318.46). Colorless needles (*n*-hexane-EtOAc), mp 164~166°C, $[\alpha]_D^{25} = -76.4^\circ$ ($c = 0.7$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root; yield = 0.00063%dw). Ref: 4613.

**692 Agallochin I**

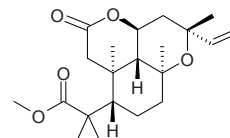
3 β ,20-Epoxy-3 α ,6 α -dihydroxy-18-nor-beyer-15-ene C₁₉H₂₈O₃ (304.43). Colorless oil, $[\alpha]_D^{25} = -52.2^\circ$ ($c = 1.0$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root; yield = 0.0010%dw). Ref: 4613.

**693 Agallochin M**

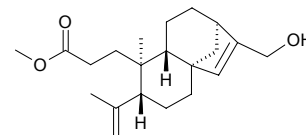
C₂₁H₃₆O₅ (368.52). Colorless oil, $[\alpha]_D^{25} = -46.4^\circ$ ($c = 0.2$, CHCl₃). Source: HAI QI *Excoecaria agallocha*. Ref: 2057.

**694 Agallochin N**

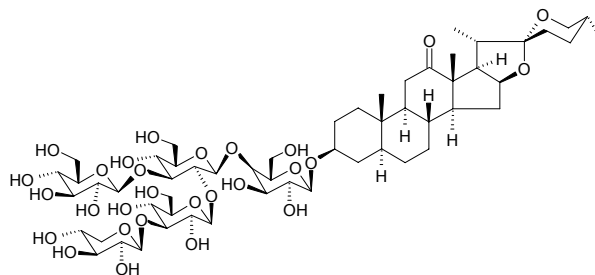
C₂₁H₃₂O₅ (364.49). Colorless needles (MeOH), mp 160~162°C $[\alpha]_D^{25} = -54.2^\circ$ ($c = 0.1$, CHCl₃). Source: HAI QI *Excoecaria agallocha*. Ref: 2057.

**695 Agallochin O**

C₂₁H₃₂O₃ (332.49). Colorless oil, $[\alpha]_D^{25} = -28.0^\circ$ ($c = 0.1$, CHCl₃). Source: HAI QI *Excoecaria agallocha*. Ref: 2057.

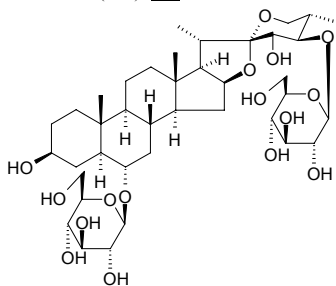
**696 Agamenoside F**

C₅₆H₉₀O₂₈ (1211.32). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 5.1 μ g/mL; control *cis*-Platin, IC₅₀ = 0.75 μ g/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber; yield = 0.0018%fw). Ref: 3002.

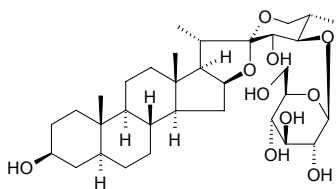


697 Agamenoside H

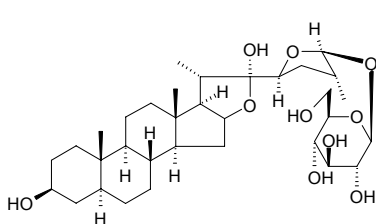
(22S,23S,24R,25S)-24-[(β -D-Glucopyranosyl)oxy]-5 α -spirostane-3 β ,6 α ,23-triol 6-O- β -D-glucopyranoside C₃₉H₆₄O₁₆ (788.94). White amorphous powder, $[\alpha]_D^{21} = -42.1^\circ$ ($c = 0.011$, pyridine). Source: FAN MA *Agave Americana* (leaf). Ref: 4293.

**698 Agamenoside I**

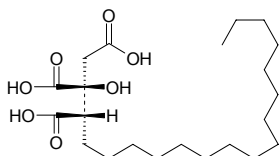
(22S,23S,24R,25S)-5 α -Spirostane-3 β ,23,24-triol-24-O- β -D-glucopyranoside C₃₃H₅₄O₁₀ (610.79). White amorphous powder, $[\alpha]_D^{14} = -39.9^\circ$ ($c = 0.041$, pyridine). Source: FAN MA *Agave Americana* (leaf). Ref: 4293.

**699 Agamenoside J**

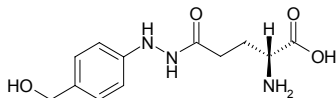
(22S,23S,25R,26S)-23,26-Epoxy-5 α -furostane-3 β ,22,26-triol 26-O- β -D-glucopyranoside C₃₃H₅₄O₁₀ (610.79). White amorphous powder, $[\alpha]_D^{21} = -37.1^\circ$ ($c = 0.018$, pyridine). Source: FAN MA *Agave Americana* (leaf). Ref: 4293.

**700 Agaricic acid**

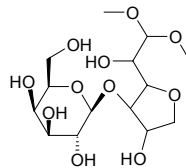
2-Hydroxy-1,2,3-nonadecanetricarboxylic acid [666-99-9] C₂₂H₄₀O₇ (416.56). mp 142°C (dec). Source: SANG HUANG *Phellinus igniarius*. Ref: 6.

**701 Agaritine**

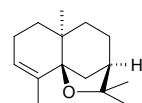
[2757-90-6] C₁₂H₁₇N₃O₄ (267.29). mp 205~209°C (dec). Pharm: Mutagen (*Salmonella aertrycke*). Source: SHUANG BAO MO GU *Agaricus bisporus*, MO GU *Agaricus campestris*. Ref: 6, 658.

**702 Agarobiose dimethylacetal**

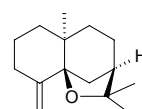
C₁₄H₂₆O₁₁ (370.36). bp 155~156°C/0.052mmHg. Source: LU JIAO CAI *Gloiopeltis furcata*. Ref: 6.

**703 α -Agarofuran**

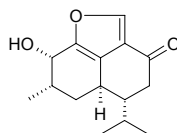
[5956-12-7] C₁₅H₂₄O (220.36). bp 134°C/6mmHg. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 6, 16.

**704 β -Agarofuran**

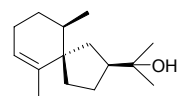
[6040-08-0] C₁₅H₂₄O (220.36). bp 130°C/8mmHg. Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 6, 13.

**705 Agarol**

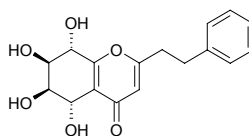
[5956-13-9] C₁₅H₂₀O₃ (248.32). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

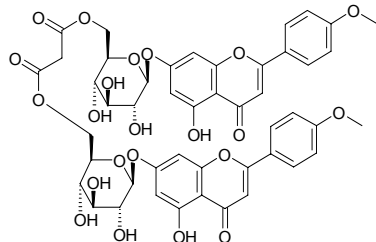
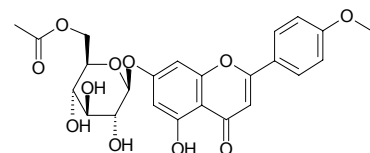
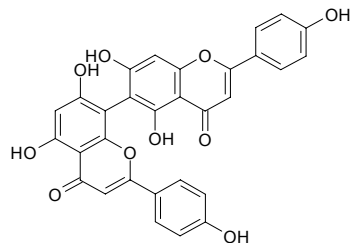
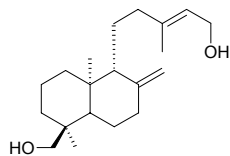
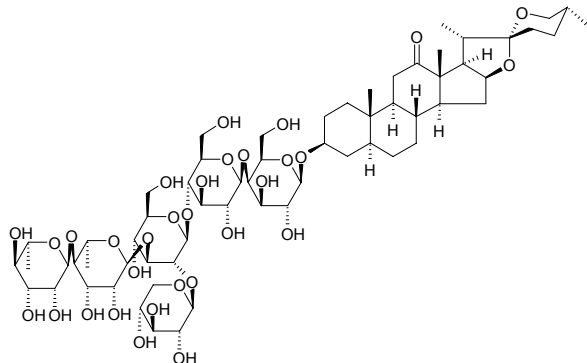
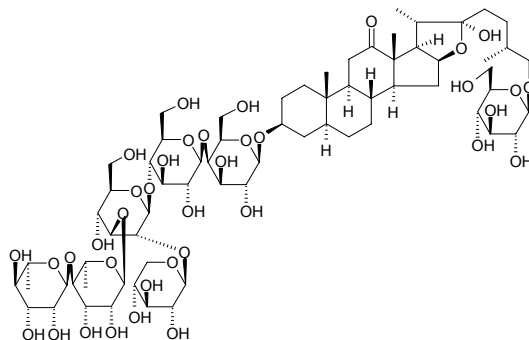
**706 Agarospirol**

[1460-73-7] C₁₅H₂₆O (222.37). bp 90~91°C/0.1mmHg. Pharm: CNS depressant (mus, inhibits spontaneous motion induced by pervitine and apomorphine, increases content of homovanillic acid in cerebrum). Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13, 5501.

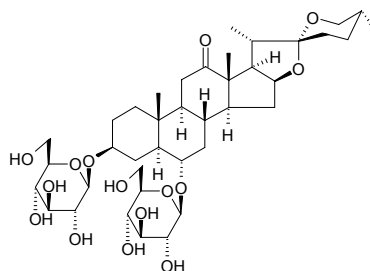
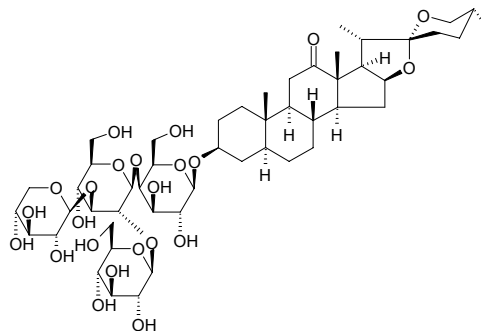
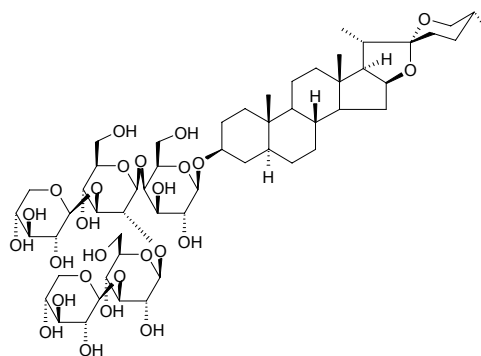
**707 Agarotetrol**

AH1 [69809-22-9] C₁₇H₁₈O₆ (318.33). Colorless acicular crystals, mp 179~181°C, $[\alpha]_D^{24} = -21.3^\circ$. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



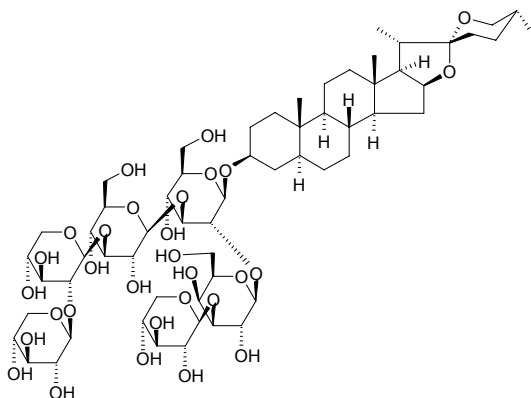
708 Agastachin[78897-46-8] C₄₇H₄₄O₂₂ (960.87). Source: HUO XIANG *Agastache rugosus*.Ref: 2.**709 Agastachoside**[76410-61-2] C₂₄H₂₄O₁₁ (488.45). Source: HUO XIANG *Agastache rugosus*.Ref: 2, 7.**710 Agathisflavone**C₃₀H₁₈O₁₀ (538.47). Pharm: Cyclonucleotide phosphodiesterase inhibitor.Source: BEI KE SHAN *Agathis dammara*, DA YE NAN YANG SHAN*Araucaria bidwillii*. Ref: 658.**711 Agathodienediol**C₂₀H₃₄O₂ (306.49). mp 107~108°C. Source: HAI SONG ZI *Pinus koraiensis*.Ref: 6.**712 Agavasaponin E**[58546-19-3] C₆₂H₁₀₀O₃₁ (1341.47). mp 304~308°C, [α]_D = -130°. Source:FAN MA *Agave americana*. Ref: 2503.**713 Agavasaponin H**C₆₈H₁₁₂O₃₇ (1521.63). mp 228~230°C, [α]_D = -113°. Source: FAN MA*Agave americana*. Ref: 2503.**714 Agave americana Compound 3**C₃₉H₆₂O₁₅ (770.92). [α]_D = -57.1°. Source: FAN MA *Agave americana*. Ref:

2503.

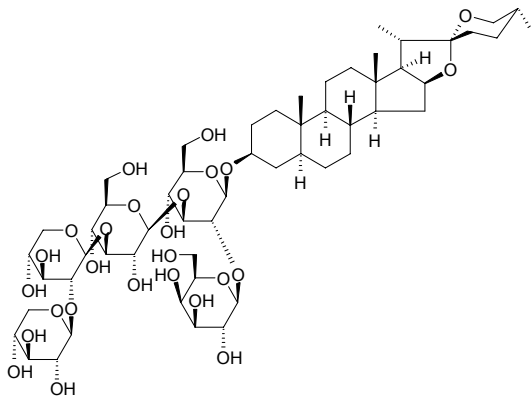
**715 Agave americana Compound 4**C₅₀H₈₀O₂₃ (1049.18). [α]_D = -52°. Source: FAN MA *Agave americana*. Ref: 2503.**716 Agave americana Glycoside 1**C₅₃H₉₀O₂₆ (1167.31). mp 260~263°C. Source: FAN MA *Agave americana*. Ref: 2503.

717 *Agave cantala* Agaveside A

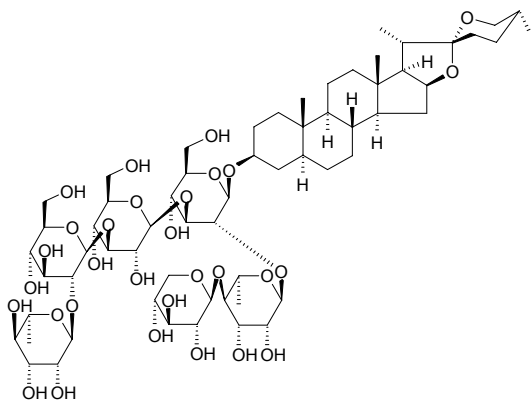
$C_{60}H_{98}O_{30}$ (1299.43). mp 278~280°C, $[\alpha]_D = -50^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**718 *Agave cantala* Agaveside B**

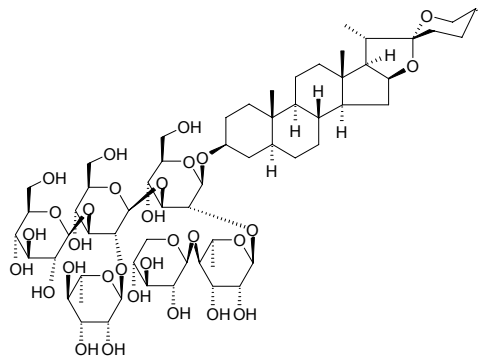
$C_{55}H_{90}O_{26}$ (1167.31). mp 283~285°C. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**719 *Agave cantala* Agaveside C**

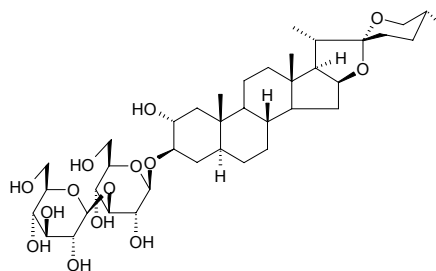
$C_{62}H_{102}O_{30}$ (1327.49). mp 256~260°C, $[\alpha]_D = -39.4^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**720 *Agave cantala* Agaveside D**

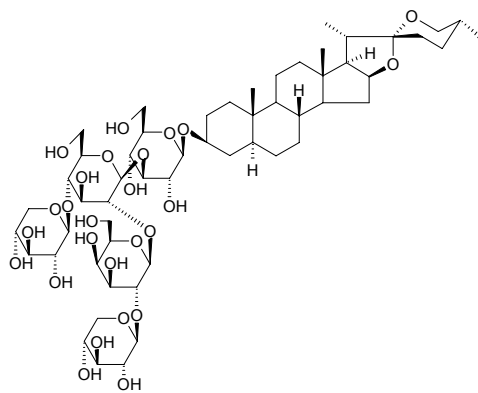
$C_{62}H_{102}O_{30}$ (1327.49). mp 256~260°C. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**721 *Agave cantala* Compound 1**

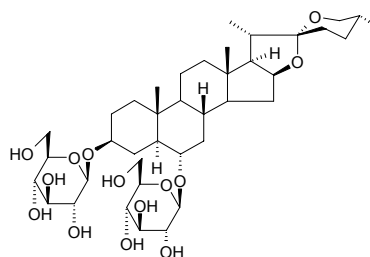
$C_{39}H_{64}O_{14}$ (756.94). mp 235~338°C, $[\alpha]_D = -62.0^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**722 *Agave cantala* Compound 1'**

$C_{55}H_{90}O_{26}$ (1167.31). mp 301~304°C. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

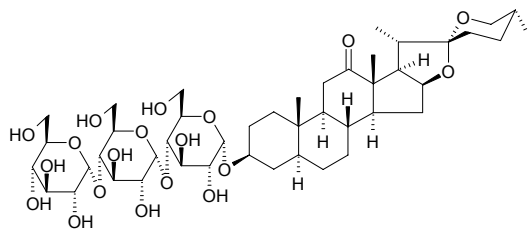
**723 *Agave cantala* Saponin 1**

$C_{39}H_{64}O_{14}$ (756.94). mp 245~246°C, $[\alpha]_D = -78.0^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

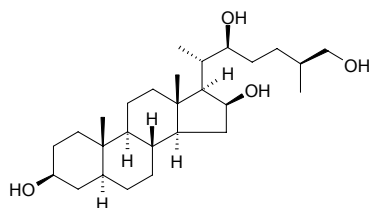


724 *Agave cantala* Substance 1

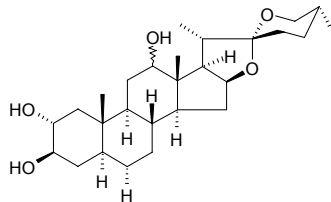
$C_{45}H_{72}O_{19}$ (917.06). mp 240–243°C, $[\alpha]_D = +95.5^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**725 Agavegenin D**

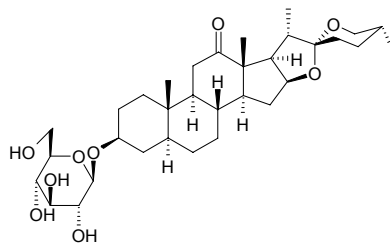
(22*S*,25*S*)-5*α*-Cholestane-3*β*,16*β*,22,26-tetrol $C_{27}H_{48}O_4$ (436.68). White amorphous powder, $[\alpha]_D^{21} = -13.3^\circ$ ($c = 0.017$, pyridine). Source: FAN MA *Agave Americana* (leaf). Ref: 4293.

**726 Agavogenin**

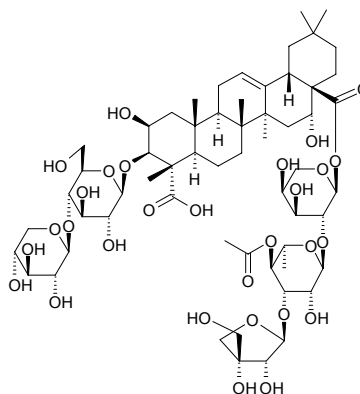
$C_{27}H_{44}O_5$ (448.65). mp 242°C. Source: *Agave huahucensis*. Ref: 2503.

**727 Agavoside A**

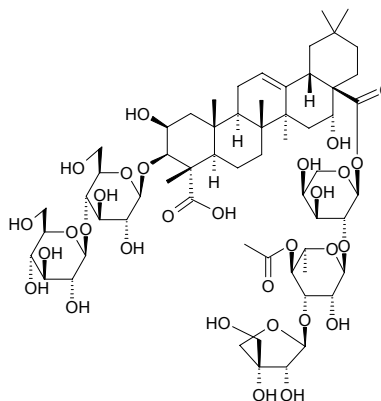
$C_{33}H_{52}O_9$ (592.78). Pharm: Antineoplastic (KB of tissue culture, leukemia). Source: FAN MA *Agave americana*. Ref: 658.

**728 Ageratoside A₁**

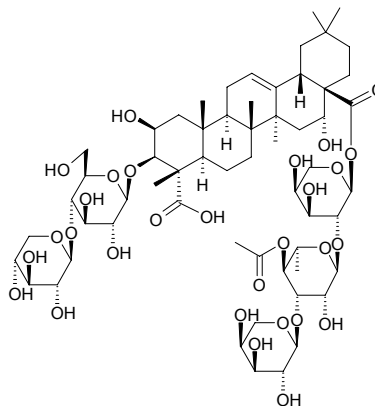
3-*O*-[*O*-*β*-*D*-Xylopyranosyl-(1→4)-*β*-*D*-glucopyranosyl] 2*β*,3*β*,16*α*-trihydroxyolean-12-ene-23,28-dioic acid (zanhic acid) 28-*O*-*β*-*D*-apiofuranosyl-(1→3)-*O*-(4-*O*-acetyl)-*α*-*L*-rhamnopyranosyl-(1→2)-*O*-*α*-*L*-arabinopyranosyl ester $C_{59}H_{92}O_{29}$ (1265.37). White powder, $[\alpha]_D^{22} = -42.8^\circ$ ($c = 1.0$, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**729 Ageratoside A₂**

3-*O*-[*O*-*β*-*D*-Glucopyranosyl-(1→4)-*β*-*D*-glucopyranosyl] zanhic acid 28-*O*-*β*-*D*-apiofuranosyl-(1→3)-*O*-(4-*O*-acetyl)-*α*-*L*-rhamnopyranosyl-(1→2)-*O*-*α*-*L*-arabinopyranosyl ester $C_{60}H_{94}O_{30}$ (1295.40). White powder, $[\alpha]_D^{22} = -38.9^\circ$ ($c = 1.0$, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**730 Ageratoside A₃**

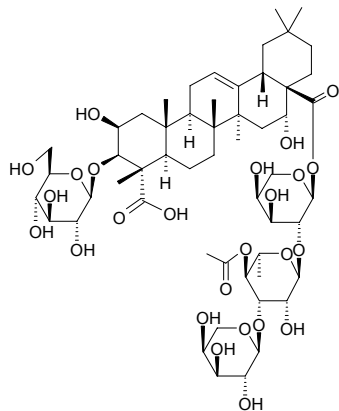
3-*O*-[*O*-*β*-*D*-Xylopyranosyl-(1→4)-*β*-*D*-glucopyranosyl] zanhic acid 28-*O*-*α*-*L*-arabinopyranosyl-(1→3)-*O*-(4-*O*-acetyl)-*α*-*L*-rhamnopyranosyl-(1→2)-*O*-*α*-*L*-arabinopyranosyl ester $C_{59}H_{92}O_{29}$ (1265.37). White powder, $[\alpha]_D^{22} = -25.7^\circ$ ($c = 1.0$, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.



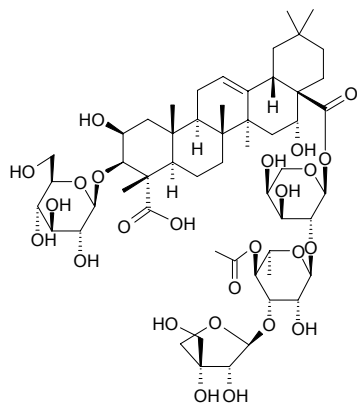
731 Ageratoside A₄

3-*O*-β-*D*-Glucopyranosyl zanhic acid 28-*O*-α-*L*-arabinopyranosyl-(1→3)-*O*-(4-*O*-acetyl)-α-*L*-rhamnopyranosyl-(1→2)-*O*-α-*L*-arabinopyranosyl ester C₅₄H₈₄O₂₅ (1133.26). White powder, [α]_D²² = -16.7° (*c* = 1.0, MeOH).

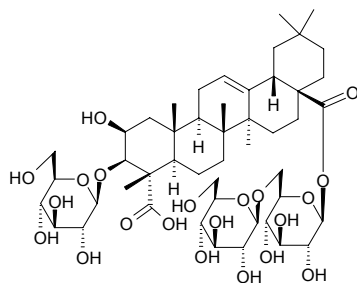
Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**732 Ageratoside A₅**

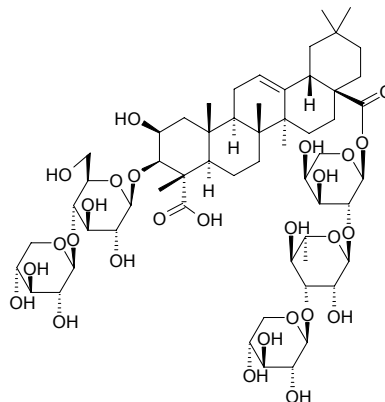
3-*O*-β-*D*-Glucopyranosyl zanhic acid 28-*O*-β-*D*-apiofuranosyl-(1→3)-*O*-(4-*O*-acetyl)-α-*L*-rhamnopyranosyl-(1→2)-*O*-α-*L*-arabinopyranosyl ester C₅₄H₈₄O₂₅ (1133.26). White powder, [α]_D²² = -30.9° (*c* = 0.5, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**733 Ageratoside B₁**

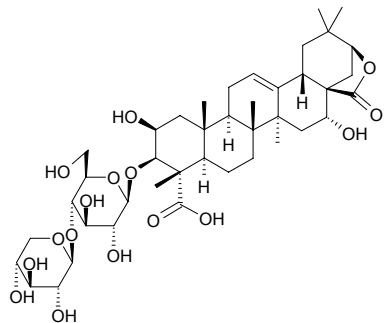
3-*O*-β-*D*-Glucopyranosyl-2β,3β-dihydroxyolean-12-ene-23,28-dioic acid (medicagenic acid) 28-*O*-β-*D*-glucopyranosyl-(1→6)-*O*-β-*D*-glucopyranosyl ester C₄₈H₇₆O₂₁ (989.13). White powder, [α]_D²² = +18.3° (*c* = 0.5, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**734 Ageratoside B₂**

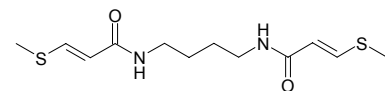
3-*O*-[*O*-β-*D*-Xylopyranosyl-(1→4)-β-*D*-glucopyranosyl] medicagenic acid 28-*O*-β-*D*-xylopyranosyl-(1→3)-*O*-α-*L*-rhamnopyranosyl-(1→2)-*O*-α-*L*-arabinopyranosyl ester [233761-49-4] C₅₇H₉₀O₂₇ (1207.34). White powder, [α]_D²² = -12.8° (*c* = 0.5, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**735 Ageratoside C₁**

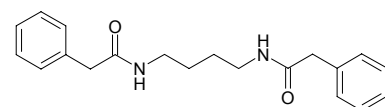
3-*O*-[*O*-β-*D*-Xylopyranosyl-(1→4)-β-*D*-glucopyranosyl]-2β,3β,16α,21β-tetrahydroxyolean-12-ene-23,28-dioic acid 21,28-lactone C₄₁H₆₂O₁₆ (810.94). White powder, [α]_D²² = -2.3° (*c* = 0.5, MeOH). Source: LUAN YE SAN ZHE MAI ZI WAN *Aster ageratoides* var. *ovatus* (aerial parts). Ref: 2285.

**736 Aglaidithioduline**

N-[*N'*-(*E*)-(3-Methylthio-2-propenyl)-4-aminobutyl]-(*E*)-3-methylthiopropenamide C₁₂H₂₀N₂O₂S₂ (288.43). Pale orange needles (MeOH), mp 164–165°C. Pharm: Antiviral (HSV-1 and HSV-2, slight activity)^[2382]. Source: KE SHI MI ZI LAN *Aglaiia edulis* (leaf). Ref: 2382.

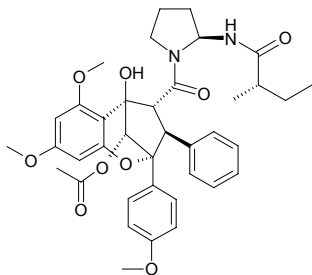
**737 Aglaiduline**

N-[*N'*-(Phenylacetyl)-4-aminobutyl]phenylacetamide C₂₀H₂₄N₂O₂ (324.43). Colorless needles (MeOH), mp 162–163°C. Source: KE SHI MI ZI LAN *Aglaiia edulis* (leaf). Ref: 2382.

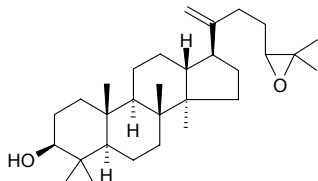


738 Aglaine A

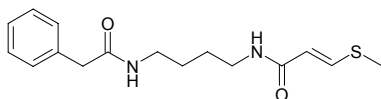
$C_{38}H_{44}N_2O_9$ (672.78). Amorphous powder. Source: TUE YUAN MI ZI LAN *Aglaiia elliptica* (leaf). Ref: 4127.

**739 Aglaiol**

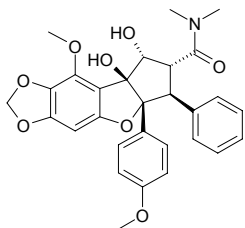
$C_{30}H_{50}O_2$ (442.73). mp 113–114°C. Source: MI ZI LAN *Aglaiia odorata*. Ref: 6.

**740 Aglalthioduline**

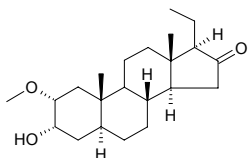
N-[*N'*-(*E*)-(3-Methylthio-2-propenyl)-4-aminobutyl] phenylacetamide
 $C_{16}H_{22}N_2O_2S$ (306.43). Colorless needles (MeOH), mp 140–141°C. Pharm:
 Antiviral (HSV-1 and HSV-2, slight activity). Source: KE SHI MI ZI
 LAN *Aglaiia edulis* (leaf). Ref: 2382.

**741 Aglaroxin A**

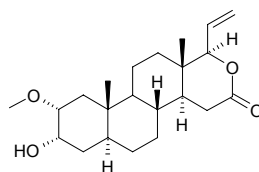
(-)-(1*R*,2*R*,3*S*,3*aR*)-16,7,8,8*a*-Tetrahydro-8,8*a*-dihydroxy-9-methoxy-5*a*-(4-methoxyphenyl)-6-phenyl-5*aH*-cyclopenta[4,5]furo[2,3-*f*]-1,3-benzodioxole-7-*N,N*-dimethyl amide $C_{29}H_{29}NO_8$ (519.56). $[\alpha]_D^{20} = -81^\circ$ ($c = 0.4$, $CHCl_3$). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, survival rate $LC_{50} = 3.4 \mu\text{g/g}$, control Azadirachtin, survival rate $LC_{50} = 6.1 \mu\text{g/g}$; growth inhibition $EC_{50} = 0.21 \mu\text{g/g}$, Azadirachtin, growth inhibition $EC_{50} = 0.11 \mu\text{g/g}$). Source: KE SHI MI ZI LAN *Aglaiia edulis*. Ref: 2355.

**742 Aglatomin A**

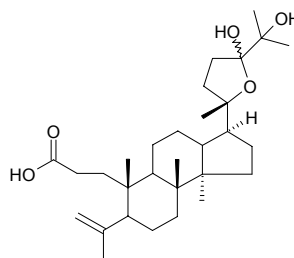
$C_{22}H_{36}O_3$ (348.53). $[\alpha]_D = -32^\circ$ ($c = 1$, $CHCl_3$). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*. Ref: 2335.

**743 Aglatomin B**

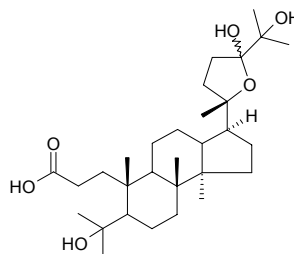
$C_{22}H_{34}O_4$ (362.51). $[\alpha]_D = -6^\circ$ ($c = 1$, $CHCl_3$). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*. Ref: 2335.

**744 Aglinin A**

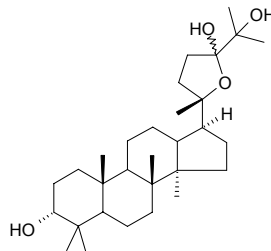
$C_{30}H_{50}O_5$ (490.73). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*, *Aglaiia lawii*. Ref: 2335.

**745 Aglinin B**

$C_{30}H_{52}O_6$ (508.75). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*, *Aglaiia lawii*. Ref: 2335.

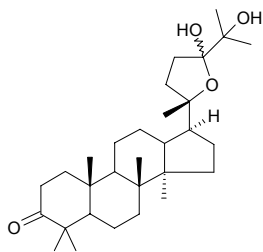
**746 Aglinin C**

$C_{30}H_{52}O_4$ (476.75). $[\alpha]_D = +17^\circ$ ($c = 1$, $CHCl_3$). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*, *Aglaiia lawii*. Ref: 2335.

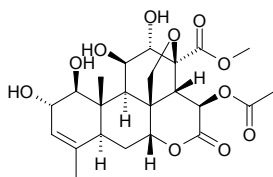


747 Aglinin D

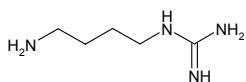
$C_{30}H_{50}O_4$ (474.73). $[\alpha]_D^{25} = +14^\circ$ ($c = 1$, $CHCl_3$). Source: RONG MAO MI ZI LAN *Aglaiia tomentosa*, *Aglaiia lawii*. Ref: 2335.

**748 Aglycone of yadanzioside D**

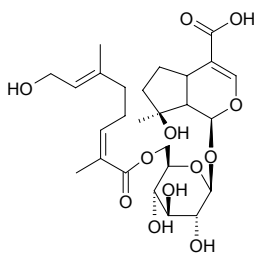
$C_{23}H_{30}O_{11}$ (482.49). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00055%dw). Ref: 4748.

**749 Agmatine**

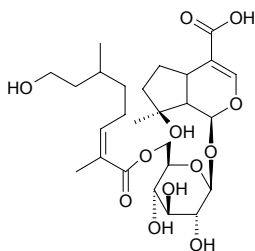
[306-60-5] $C_5H_{14}N_4$ (130.19). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**750 Agnucastoides A**

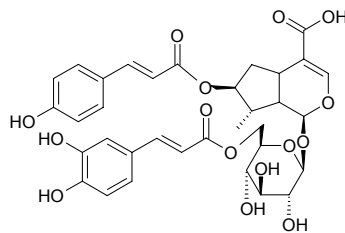
6'-*O*-Foliamenthylmussaenosidic acid $C_{26}H_{38}O_{12}$ (542.59). Source: SUI HUA MU JING *Vitex agnuscastus*. Ref: 3429.

**751 Agnucastoides B**

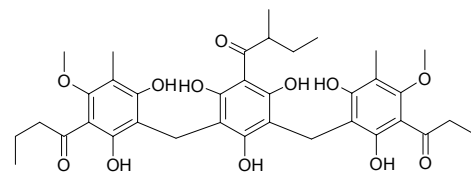
6'-*O*-(6,7-Dihydrofoliamenthyl)mussaenosidic acid $C_{26}H_{40}O_{12}$ (544.60). Source: SUI HUA MU JING *Vitex agnuscastus*. Ref: 3429.

**752 Agnucastoides C**

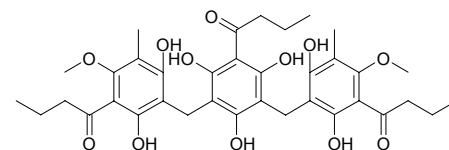
7-*O*-*trans*-*p*-Coumaroyl-6'-*O*-*trans*-caffeoyl-8-epiloganic acid $C_{34}H_{36}O_{15}$ (684.66). Source: SUI HUA MU JING *Vitex agnuscastus*. Ref: 3429.

**753 (R)-(-)-Agrimol B**

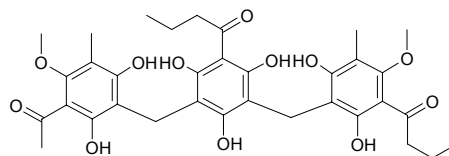
[55576-66-4] $C_{37}H_{46}O_{12}$ (682.77). Yellow acicular crystals, mp 173–175°C, $[\alpha]_D^{19} = -3.3^\circ$ ($c = 1$, $CHCl_3$). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 129.

**754 Agrimol C**

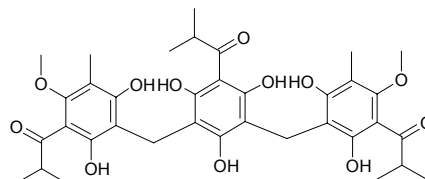
[55785-59-6] $C_{36}H_{44}O_{12}$ (668.74). Pharm: Antibacterial. Source: LONG YA CAO *Agrimonia pilosa*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 2, 658.

**755 Agrimol F**

[121693-16-1] $C_{34}H_{40}O_{12}$ (640.69). Pharm: Antibacterial (*Staphylococcus aureus* MIC = 25.0 μg/mL; *Bacillus cereus* MIC = 25.0 μg/mL). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 2, 1725.

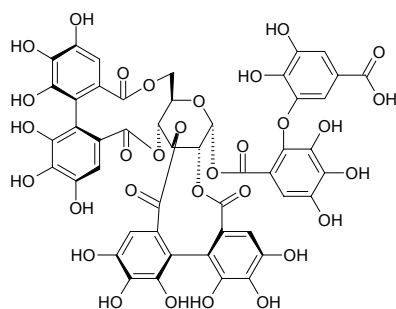
**756 Agrimol G**

[121693-17-2] $C_{36}H_{44}O_{12}$ (668.75). Pharm: Antibacterial (*Staphylococcus aureus* MIC = 12.5 μg/mL, *Bacillus cereus* MIC = 50 μg/mL). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 2, 1725.

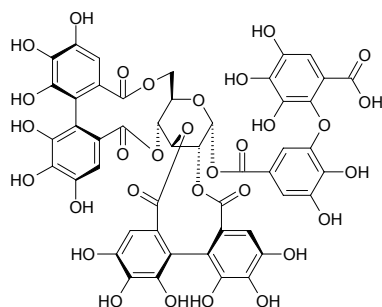


757 Agrimonic acid A

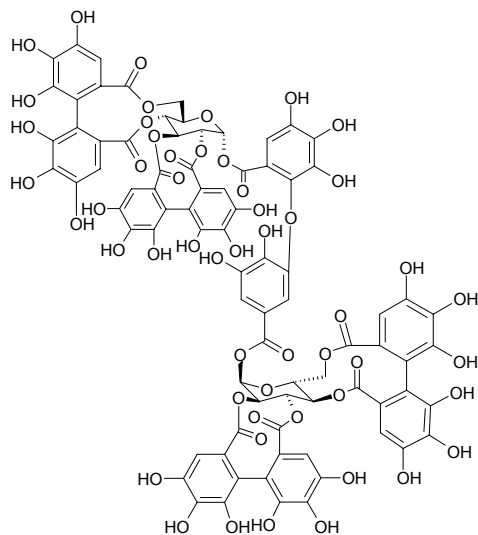
$C_{48}H_{32}O_{31}$ (1104.77). Source: JIN YING ZI *Rosa laevigata* (pericarp), RI BEN LONG YA CAO *Agrimonia japonica* (root). Ref: 660, 1521.

**758 Agrimonic acid B**

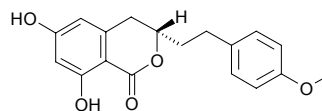
$C_{48}H_{32}O_{31}$ (1104.77). Source: JIN YING ZI *Rosa laevigata* (pericarp), RI BEN LONG YA CAO *Agrimonia japonica* (root). Ref: 660, 1521.

**759 Agrimoniin**

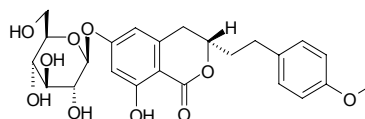
$C_{82}H_{54}O_{52}$ (1871.33). Pharm: Antineoplastic (S_{180}); antidiarrheal; anthelmintic; hemostatic; antioxidant (rat, lipid in liver mitochondria). Source: LONG YA CAO *Agrimonia pilosa*, RI BEN LONG YA CAO *Agrimonia japonica*, SHE HAN WEI LING CAI *Potentilla kleiniana*. Ref: 658.

**760 Agrimonolide**

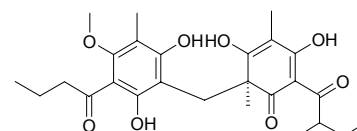
$C_{18}H_{18}O_5$ (314.34). Colorless columnar crystals, mp 173~175°C, $[\alpha]_D^{18} = +8.1^\circ$. Pharm: Intestinal smooth muscle relaxant (mus *in vivo*, rbt intestine *in vitro*). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 1, 2, 5.

**761 Agrimonolide-6-O-β-D-glucopyranoside**

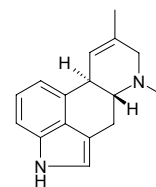
$C_{24}H_{28}O_{10}$ (476.48). White acicular crystals, mp 165~167°C, $[\alpha]_D^{14} = -30.8^\circ$ ($c = 1$, acetone). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 144.

**762 Agrimophol**

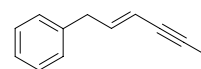
$C_{26}H_{34}O_8$ (474.55). Light yellow-green crystals, mp 138.5~139.5°C, easily soluble in chloroform, benzene, slightly soluble in alcohol, acetone, almost insoluble in water.^[5507] Pharm: Antibacterial; anthelmintic (tapeworm, ascarid); schistosomacide; spermaticidal (0.0025g/mL, 1~5min, lethal rate = 100%). Source: LONG YA CAO *Agrimonia pilosa* (aerial part: mean content of 6 samples = 0.022%^[5508]), XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAN HE CAO GEN YA *Agrimonia pilosa* var. *japonica*. Ref: 1, 2, 4, 5, 6, 5501, 5507, 5508.

**763 Agroclavine**

[548-42-5] $C_{16}H_{18}N_2$ (238.34). mp 203°C (dec). Pharm: Dopaminergic; uterine stimulant. Source: MAI JIAO *Claviceps purpurea*. Ref: 1, 6.

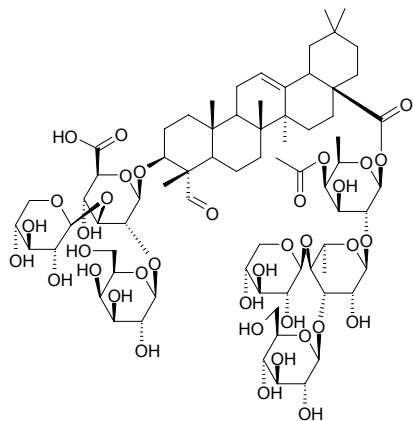
**764 Agropyrene**

$C_{12}H_{12}$ (156.23). bp 140~143°C/10mmHg. Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. Ref: 6, 660.

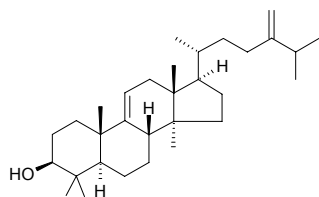


765 Agrostemmasaponin 1

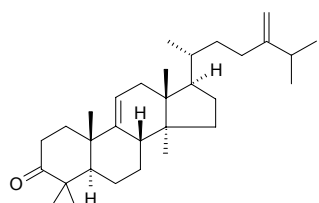
$C_{72}H_{112}O_{37}$ (1569.67). **Pharm:** Cytotoxic (showed mechanism of “cooperative toxicity”, combined with agrostin)^[5464]. **Source:** MAI XIAN WENG *Agrostemma githago* (root). **Ref:** 5464.

**766 Agrostophyllinol**

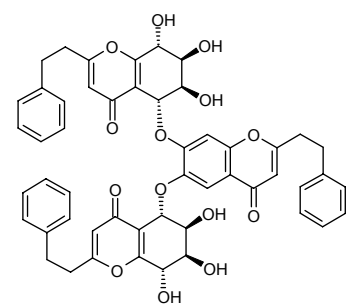
24-Methylene-lanosta-9(11)-en-3 β -ol $C_{31}H_{52}O$ (440.76). mp 175°C, $[\alpha]_D = +46^\circ$ (CHCl₃). **Source:** DUAN BING HE YE LAN *Agrostophyllum brevipes*. **Ref:** 3360.

**767 Agrostophyllinone**

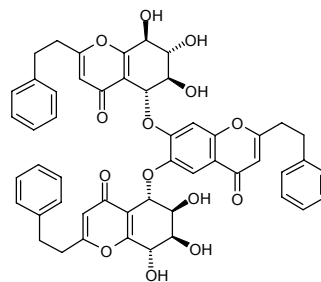
24-Methylene-lanosta-9(11)-en-3-one $C_{31}H_{50}O$ (438.74). mp 125°C, $[\alpha]_D = +79^\circ$ (CHCl₃). **Source:** DUAN BING HE YE LAN *Agrostophyllum brevipes*, YING PI HE YE LAN *Agrostophyllum callosum*. **Ref:** 3360.

**768 AH18**

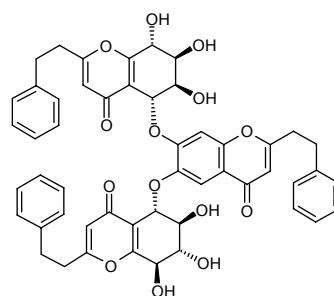
[113981-50-3] $C_{51}H_{46}O_{14}$ (882.93). White powder, mp 147~148°C, $[\alpha]_D = -109.1^\circ$. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**769 AH19a**

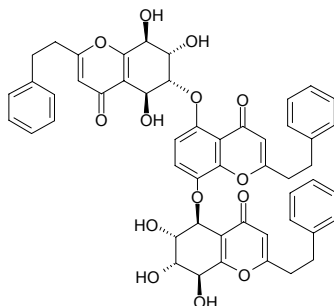
$C_{51}H_{46}O_{14}$ (882.93). White powder, mp 165~167°C, $[\alpha]_D = -33.89^\circ$. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**770 AH19b**

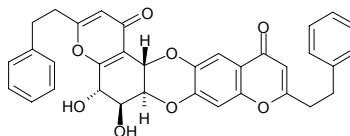
$C_{51}H_{46}O_{14}$ (882.93). White powder, mp 130~133°C, $[\alpha]_D = -64.04^\circ$. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**771 AH20**

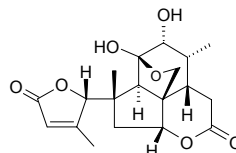
[135309-01-2] $C_{51}H_{46}O_{14}$ (882.93). White powder, mp 143~145°C, $[\alpha]_D = -27.83^\circ$. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**772 AH21**

[138822-70-5] $C_{34}H_{28}O_8$ (564.60). White powder, mp 123~125°C, $[\alpha]_D = -75.2^\circ$. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

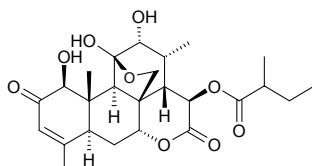
**773 Ailanquassin**

$C_{19}H_{24}O_7$ (364.40). **Source:** *Eurycoma harmandiana* (root). **Ref:** 5164.

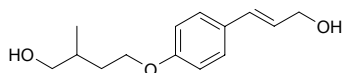


774 Ailanthinone

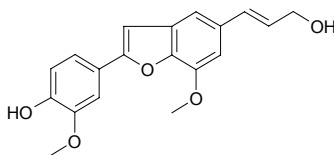
[53683-73-1] $C_{25}H_{34}O_9$ (478.51). Acicular crystals (acetone–ethane), mp 227–230°C, $[\alpha]_D^{27} = +90^\circ$ ($c = 0.10$, $CHCl_3$). **Pharm:** Antiamoebic. **Source:** CHU BAI PI *Ailanthus altissima*. **Ref:** 1, 5.

**775 Ailanthoidiol**

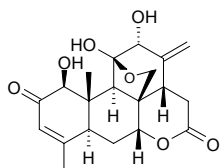
$C_{14}H_{20}O_3$ (236.31). **Source:** CHU YE HUA JIAO *Zanthoxylum ailanthoides*, *Zanthoxylum* sp. **Ref:** 1521, 2176.

**776 Ailanthoidol**

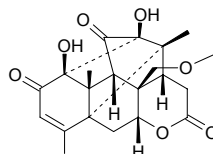
[156398-61-7] $C_{19}H_{18}O_5$ (326.35). Colorless amorphous solid. **Source:** CHU YE HUA JIAO *Zanthoxylum ailanthoides*, *Zanthoxylum* sp., *Sarcomelicope megistophylla*. **Ref:** 1521, 2176, 5408.

**777 Ailanthone**

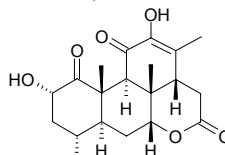
[981-15-7] $C_{20}H_{24}O_7$ (376.41). mp 234–238°C (alcohol), $[\alpha]_D = +12.5^\circ$ (EtOH). **Pharm:** Antiamoebic (amebic dysentery, $IC_{50} = 0.14\mu g/mL$); antineoplastic (P_{388} , 0.12–4.00mg/kg); antimalarial (*Plasmodium falciparum* *in vitro*, $IC_{50} = 0.015\mu g/mL$, *mus Plasmodium* sp. *in vivo*, $ED_{50} = 0.76mg/(kg \cdot d)$); antiulcerative (rat, ulcer induced by waterlogging, 1.0mg/kg or 1, InRt = 89.7%, induced by indometacin, 1.0mg/kg, InRt = 95.8%, $ED_{50} = 0.36mg/kg$); cytotoxic (KB, $ED_{50} = 0.001\text{--}0.01\mu g/mL$); gastric secretion inhibitor (rat, $ED_{50} = 0.04mg/kg$, 1.0mg/kg, InRt = 96.6%); plant growth inhibitor. **Source:** CHU BAI PI *Ailanthus altissima*, GAO CHU *Ailanthus excelsa*. **Ref:** 6, 900.

**778 Ailantinal E**

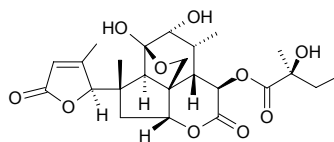
$C_{21}H_{24}O_7$ (388.42). Colorless amorphous powder, mp 144–146°C, $[\alpha]_D^{25} = -166^\circ$ ($c = 0.14$, MeOH). **Pharm:** Antineoplastic (*in vitro*, inhibits TPA-induced EBV-EA activation in Raji cells, shows potent activity for antitumor without showing any cytotoxicity to Raji cells); antioxidant (inhibits NOR1 (nitric oxide donor) action, ratio of inhibitory = 2.9 with 350nmol/L, positive control NOR1, ratio of inhibitory = 1.0 with 350nmol/L). **Source:** CHU BAI PI *Ailanthus altissima* (aerial parts). **Ref:** 4332.

**779 Ailantinal F**

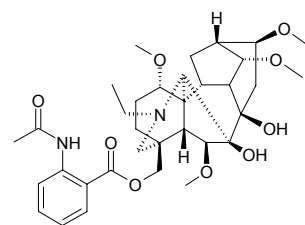
$C_{20}H_{26}O_6$ (362.43). Colorless amorphous powder, mp 93–95°C, $[\alpha]_D^{25} = +23.3^\circ$ ($c = 0.06$, MeOH). **Pharm:** Antineoplastic (*in vitro*, inhibits TPA-induced EBV-EA activation in Raji cells, shows potent activity for antitumor without showing any cytotoxicity to Raji cells); antioxidant (inhibits NOR1 (nitric oxide donor) action, ratio of inhibitory = 3.0 with 350nmol/L, positive control NOR1, ratio of inhibitory = 1.0 with 350nmol/L). **Source:** CHU BAI PI *Ailanthus altissima* (aerial parts). **Ref:** 4332.

**780 Ailantinal G**

$C_{24}H_{32}O_{10}$ (480.52). Colorless needles, mp 230–232°C (dec), $[\alpha]_D^{25} = +80.0^\circ$ ($c = 0.12$, MeOH). **Pharm:** Antineoplastic (*in vitro*, inhibits TPA-induced EBV-EA activation in Raji cells, shows potent activity for antitumor without showing any cytotoxicity to Raji cells); antioxidant (inhibits NOR1 (nitric oxide donor) action, ratio of inhibitory = 1.7 with 350nmol/L, positive control NOR1, ratio of inhibitory = 1.0 with 350nmol/L). **Source:** CHU BAI PI *Ailanthus altissima* (aerial parts). **Ref:** 4332.

**781 Ajacine**

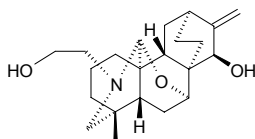
[509-17-1] $C_{34}H_{48}N_2O_9$ (628.77). Acicular crystals (70% alcohol), mp 154°C, $[\alpha]_D^{22} = +49.5^\circ$ ($c = 2$, anhydrous alcohol), $[\alpha]_D^{16} = +53^\circ$ ($c = 0.66$, chloroform). **Pharm:** Pesticide (lousicide). **Source:** FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], CAO DI WU TOU *Aconitum umbrosum*. **Ref:** 1, 6.



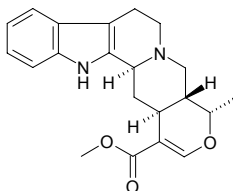
782 Ajaconine

[545-61-9] $C_{22}H_{33}NO_3$ (359.51). Prismatic crystals (dil. alcohol), mp 172°C, $[\alpha]_D^{18} = -119^\circ$ ($c = 2$, anhydrous alcohol), mp 167, $[\alpha]_D = -122^\circ$ ($c = 1.75$).

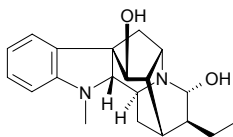
Pharm: Pesticide; toxin. **Source:** DAN LV CUI QUE *Delphinium virescens*, FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], KA LUO LAI NA CUI QUE *Delphinium carolinianum*, KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 1, 6.

**783 Ajmalicine**

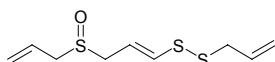
Ervine [483-04-5] $C_{21}H_{24}N_2O_3$ (352.44). Prismatic crystals (methanol), mp 257°C (dec), $[\alpha]_D^{20} = -60^\circ$ ($c = 0.5$, $CHCl_3$), $[\alpha]_D^{20} = -45^\circ$ ($c = 0.5$, pyridine), $[\alpha]_D^{20} = -39^\circ$ ($c = 0.25$, methanol). **Pharm:** Antiarrhythmic (cat, iv, chloride ED = 0.5~1.0mg/kg, rat, induced by aconitine, ED = 5mg/kg, rat, induced by $CaCl_2$); antibacterial; antihypertensive; antihypertensive; sedative; coronary and cerebral vasodilator. **Source:** BAN BIAN LIAN ZHUANG LI LU *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DONG FANG GOU TENG *Uncaria orientalis*, FEI ZHOU GOU TENG *Uncaria africana*, GUANG LIANG LUO FU MU *Rauwolfia nitida*, LUO FU MU *Rauwolfia verticillata*, YIN DU LUO FU MU *Rauwolfia serpentina*, TUO YUAN GOU TENG *Uncaria elliptica*, YUN NAN LUO FU MU *Rauwolfia yunnanensis*. **Ref:** 1, 2, 6, 660, 661, 5341.

**784 Ajmaline**

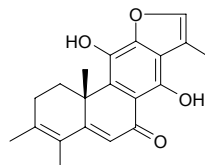
Rauwolfine; Aritmina; Tachmalin [4360-12-7] $C_{20}H_{26}N_2O_2$ (326.44). mp 205~207°C, $[\alpha]_D^{20} = +144^\circ$ (chloroform), soluble in chloroform, ethanol, ether, slightly soluble in water.^[55071] **Pharm:** Antihypertensive; antiviral; sedative; coronary vasodilator. **Source:** BEI SHI SHAN CHENG *Melodinus balansae*, CUI TU LUO FU MU *Rauwolfia vomitoria*, HAI NAN LUO FU MU *Rauwolfia verticillata* var. *hainanensis*, LUO FU MU *Rauwolfia verticillata*, PI LI LUO FU MU *Rauwolfia perakensis*, YIN DU LUO FU MU *Rauwolfia serpentina*. **Ref:** 1, 6, 660, 5507.

**785 Ajoene**

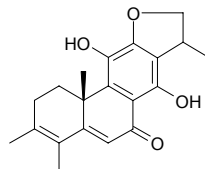
$C_9H_{14}OS_3$ (234.40). **Source:** DA SUAN *Allium sativum*. **Ref:** 660.

**786 Ajuforrestine A**

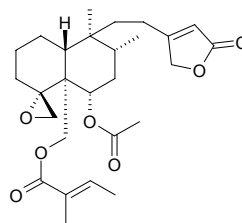
12,16-Epoxy-11,14-dihydroxy-3,5,8,11,13,15-abietahexaene-7-one [157110-18-4] $C_{20}H_{20}O_4$ (324.38). Red brown crystals, mp 245~248°C, $[\alpha]_D^{28} = -51.5^\circ$ ($CHCl_3$). **Source:** LI ZHI HAO *Ajuga forrestii*. **Ref:** 319.

**787 Ajuforrestine B**

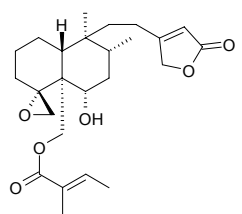
12,16-Epoxy-11,14-dihydroxy-3,5,8,11,13-abietapentaene-7-one $C_{20}H_{22}O_4$ (326.40). Yellow crystals, mp 182~185°C, $[\alpha]_D^{28} = -61.8^\circ$ ($CHCl_3$). **Source:** LI ZHI HAO *Ajuga forrestii*. **Ref:** 319.

**788 Ajugacumbin A**

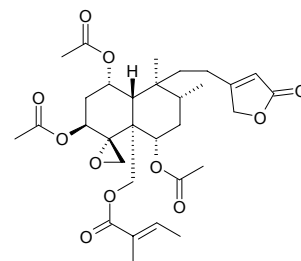
$C_{27}H_{38}O_7$ (474.60). **Pharm:** Insect antifeedant. **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*. **Ref:** 660.

**789 Ajugacumbin B**

$C_{25}H_{36}O_6$ (432.56). **Pharm:** Insect antifeedant. **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*. **Ref:** 660.

**790 Ajugacumbin C**

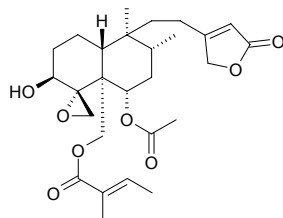
$C_{31}H_{42}O_{11}$ (590.67). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*. **Ref:** 660.



791 Ajugacumbin D

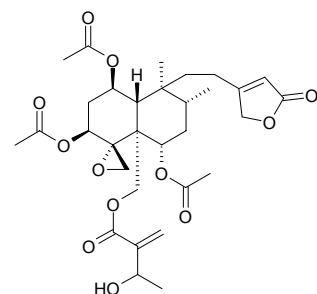
$C_{27}H_{38}O_8$ (490.60). Source: BAI MAO XIA KU CAO *Ajuga decumbens*.

Ref: 660.

**792 Ajugacumbin E**

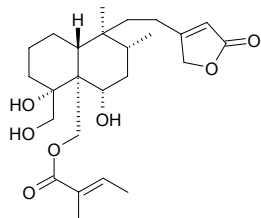
$C_{31}H_{42}O_{12}$ (606.67). Source: BAI MAO XIA KU CAO *Ajuga decumbens*.

Ref: 660.

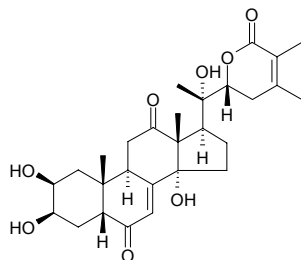
**793 Ajugacumbin F**

$C_{25}H_{38}O_7$ (450.58). Source: BAI MAO XIA KU CAO *Ajuga decumbens*.

Ref: 660.

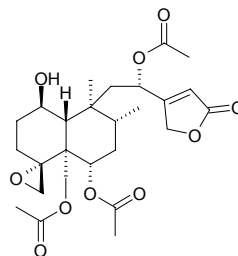
**794 Ajugalactone**

[42975-12-2] $C_{29}H_{40}O_8$ (516.64). mp 225~235°C (dec). Pharm: Insect ecdysone. Source: BAI MAO XIA KU CAO *Ajuga decumbens*, HUANG JIN GU CAO *Ajuga chamaepitys*, PU FU JIN GU CAO *Ajuga reptans*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). Ref: 6, 658, 4483.

**795 Ajugalide A**

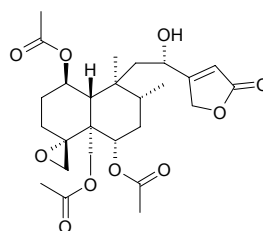
(12*S*)-6 α ,12,19-Triacetoxy-1 β -hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide $C_{26}H_{36}O_{10}$ (508.57). White amorphous solid, mp 205~206°C.

Source: TAI WAN JIN GU CAO *Ajuga taiwanensis*. Ref: 4431, 4483.

**796 Ajugalide B**

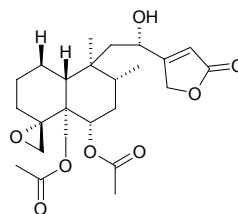
(12*S*)-1 β ,6 α ,19-Triacetoxy-12-hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide $C_{26}H_{36}O_{10}$ (508.57). White amorphous solid, mp 209~210°C, $[\alpha]_D^{25} = +2.4^\circ$ ($c = 0.27$, $CHCl_3$).

Source: TAI WAN JIN GU CAO *Ajuga taiwanensis*. Ref: 4431, 4483.

**797 Ajugalide C**

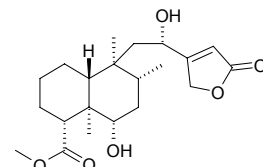
(12*S*)-6 α ,19-Diacetoxy-12-hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide $C_{24}H_{34}O_8$ (450.53). White amorphous solid, mp 158~160°C, $[\alpha]_D^{25} = -10.4^\circ$ ($c = 0.07$, $CHCl_3$).

Source: TAI WAN JIN GU CAO *Ajuga taiwanensis*. Ref: 4431, 4483.

**798 Ajugalide D**

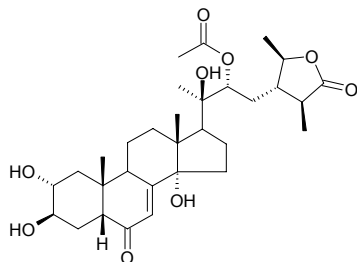
(12*S*)-Methyl-6 α ,12-dihydroxy-4 α -methoxycarbonyl-18-norneo-clerod-13(14)-en-15,16-olide $C_{21}H_{32}O_6$ (380.49). White amorphous solid, mp 210~212°C, $[\alpha]_D^{25} = -12.7^\circ$ ($c = 0.05$, $CHCl_3$).

Source: TAI WAN JIN GU CAO *Ajuga taiwanensis*. Ref: 4431, 4483.

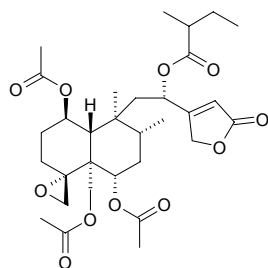


799 Ajugalide E

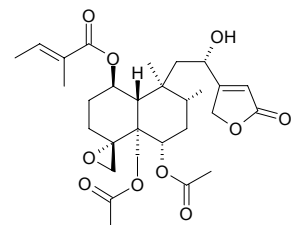
$C_{31}H_{46}O_9$ (562.71). White amorphous solid, mp 210~212°C, $[\alpha]_D^{25} = +133.6^\circ$ ($c = 0.007$, $CHCl_3$). **Source:** TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 4483.

**800 Ajugamacrin B**

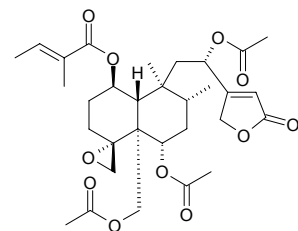
[123313-59-7] $C_{31}H_{44}O_{11}$ (592.69). **Source:** DA ZI JIN GU CAO *Ajuga macrosperma* TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 1521, 4431, 4483.

**801 Ajugamarin**

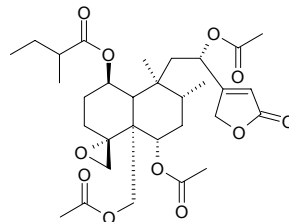
$C_{29}H_{40}O_{10}$ (548.64). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

**802 Ajugamarin A₂**

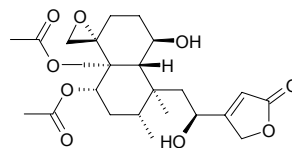
$C_{31}H_{42}O_{11}$ (590.67). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

**803 Ajugamarin B₂**

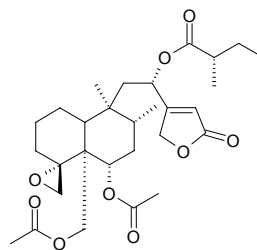
$C_{31}H_{44}O_{11}$ (592.69). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

**804 Ajugamarin C₁**

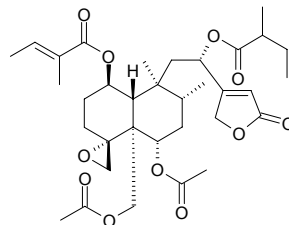
$C_{24}H_{34}O_9$ (466.53). **Source:** TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 4431, 4483.

**805 Ajugamarin F₄**

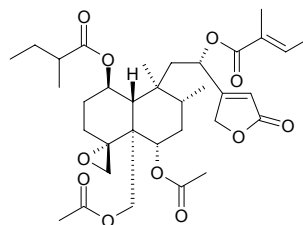
$C_{29}H_{42}O_9$ (534.65). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

**806 Ajugamarin G₁**

$C_{34}H_{48}O_{11}$ (632.76). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

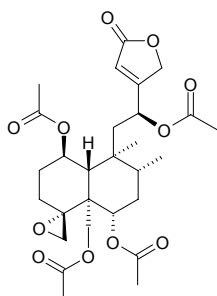
**807 Ajugamarin H₁**

$C_{34}H_{48}O_{11}$ (632.76). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. **Ref:** 660.

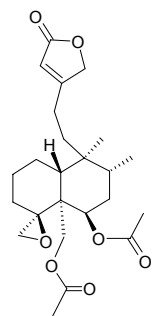


808 Ajugapantin A

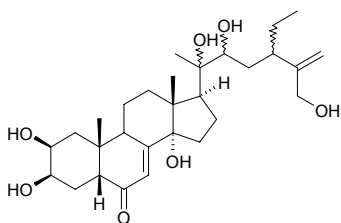
$C_{28}H_{38}O_{11}$ (550.61). Source: TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). Ref: 4431, 4483.

**809 Ajugarin I**

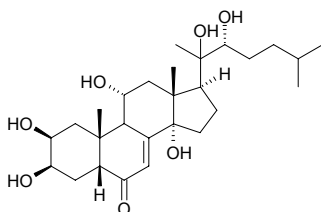
[62640-05-5] $C_{24}H_{34}O_7$ (434.54). Pharm: Insect antifeedant (African armyworm). Source: YUAN JU JIN GU CAO *Ajuga remota*. Ref: 658.

**810 Ajugasterone B**

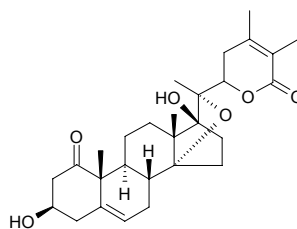
$C_{29}H_{46}O_7$ (506.69). Source: BAI MAO XIA KU CAO *Ajuga decumbens*, ZI BEI JIN PAN *Ajuga nipponensis*. Ref: 660.

**811 Ajugasterone C**

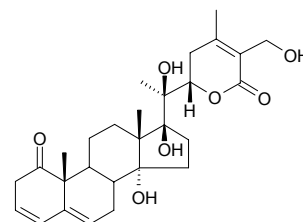
$C_{27}H_{44}O_7$ (480.65). Pharm: Insect ecdysone (molting hormone). Source: BAI MAO XIA KU CAO *Ajuga decumbens*, LU CAO *Rhaponticum carthamoides*, ZHEN ZHU LU SHUI CAO *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*]. Ref: 6, 658, 660.

**812 Ajugin**

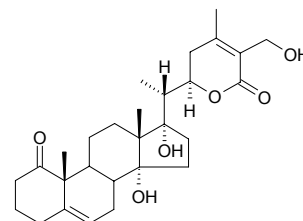
$3\beta,17\beta$ -Dihydroxy-14,20-epoxy-1-oxo-22R-witha-5,24-dienolide $C_{28}H_{38}O_6$ (470.61). Amorphous powder, $[\alpha]_D^{21} = +70.5^\circ$ ($c = 0.23$, MeOH). Source: XIAO HUA XIA KU CAO *Ajuga parviflora*. Ref: 2308.

**813 Ajugin E**

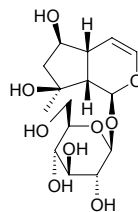
$C_{28}H_{38}O_7$ (486.61). White amorphous solid, $[\alpha]_D^{21} = +125^\circ$ ($c = 0.058$, MeOH). Source: XIAO HUA XIA KU CAO *Ajuga parviflora*. Ref: 2396.

**814 Ajugin F**

$C_{28}H_{40}O_6$ (472.63). White amorphous, $[\alpha]_D^{21} = +57^\circ$ ($c = 0.063$, MeOH). Source: XIAO HUA XIA KU CAO *Ajuga parviflora*. Ref: 2396.

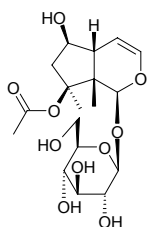
**815 Ajugol**

Leonuride [52949-83-4] $C_{15}H_{24}O_9$ (348.35). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 31.8\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70\mu\text{g/mL}$)^[5251]; antileishmanial (*Leishmania donovani*, $IC_{50} = 7.2\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32\mu\text{g/mL}$)^[5251]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002\mu\text{g/mL}$)^[5251]; cytotoxic (L6 cells, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075\mu\text{g/mL}$)^[5251]. Source: CHA RU SHI WAN CUO *Asystasia intrusa*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], LIN PIAN XUAN SHEN *Scrophularia lepidota* (root), ROU CONG RONG *Cistanche deserticola*. Ref: 2, 7, 628, 2589, 5251.

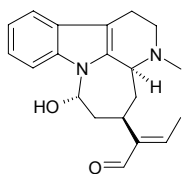


816 Ajugoside

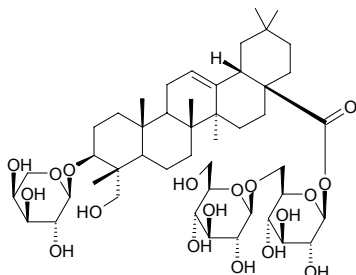
[51916-96-8] C₁₇H₂₆O₁₀ (390.39). **Pharm:** Antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ = 56.4 μg/mL, control Melarsoprol, IC₅₀ = 0.0033 μg/mL; *Trypanosoma cruzi*, IC₅₀ > 90 μg/mL, control Benznidazole, IC₅₀ = 0.70 μg/mL)^[5251]; antileishmanial (*Leishmania donovani*, IC₅₀ = 8.5 μg/mL, control Miltefosine, IC₅₀ = 0.32 μg/mL)^[5251]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 50 μg/mL, control Artemisinin, IC₅₀ = 0.002 μg/mL)^[5251]; cytotoxic (L6 cells, IC₅₀ > 90 μg/mL, control Podophyllotoxin, IC₅₀ = 0.0075 μg/mL)^[5251]. **Source:** DU ZHONG *Eucommia ulmoides*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], LONG TU ZHU *Clerodendrum thomsonae*, PU FU JIN GU CAO *Ajuga reptans*, WEI YI MU CAO *Leonurus cardiaca*, XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). **Ref:** 2, 7, 660, 1521, 5251.

**817 Akagerine**

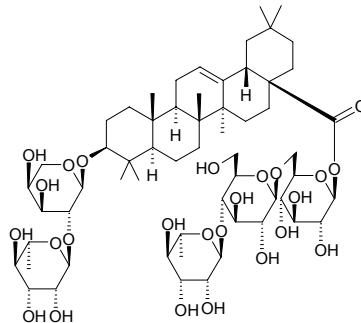
C₂₀H₂₄N₂O₂ (324.43). mp 188°C, [α]_D²⁰ = -16.6° (c = 1, MeOH). **Source:** DONG FEI MA QIAN *Strychnos usambarensis* (root), DUI SHENG MA QIAN *Strychnos decussata* (root bark), *Strychnos camptoneura*, *Strychnos gardneri*, *Strychnos jobertiana*, *Strychnos parvifolia*, *Strychnos nigrifolia*, *Strychnos spinosa* (leaf), *Strychnos vanprukii* (stem). **Ref:** 1521, 3471.

**818 Akebia saponin D**

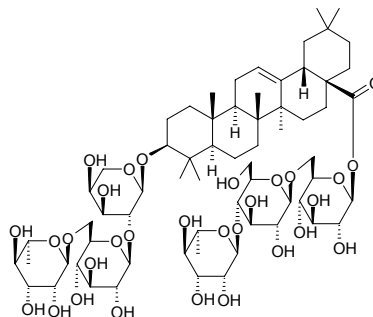
3-*O*- α -L-Arabinopyranosyl hederagenin
28-*O*- β -D-glucopyranosyl(1→6)- β -D-glucopyranoside C₄₇H₇₆O₁₈ (929.12).
Source: CHUAN XU DUAN *Dipsacus asperoides*. **Ref:** 660.

**819 Akeboside st₄**

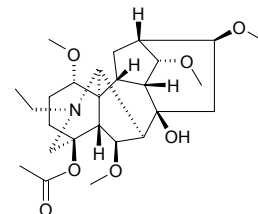
Hederasaponin B; Eleutheroside M; Hederacoside B; Hederacolchiside C; Taurosides G₂; 3 β -[(*O*- α -L-Rhamnopyranosyl (1→2)- α -L-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl (1→4)-*O*- β -D-glucopyranosyl (1→6)- β -D-glucopyranosyl ester C₅₉H₉₆O₂₅ (1205.41). mp 221–222°C (dec). **Source:** CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], MU TONG *Akebia quinata*, MU TONG GEN *Akebia quinata*, SAN YE MU TONG *Akebia trifoliata* (stem), XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). **Ref:** 6, 660, 3530, 4545.

**820 Akeboside st₃**

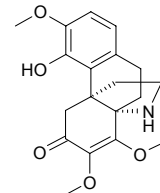
C₆₅H₁₀₆O₃₀ (1367.55). mp 224–226°C (dec). **Source:** MU TONG *Akebia quinata*, MU TONG GEN *Akebia quinata*. **Ref:** 6.

**821 Akirane**

C₂₆H₄₁NO₇ (479.62). Colorless needles, mp 126–130°C (acetone). **Source:** JI LIN WU TOU *Aconitum kirinense*. **Ref:** 2515.

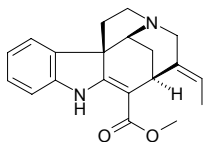
**822 Aknadicine**

[24148-89-8] C₁₉H₂₃NO₅ (345.40). **Pharm:** Antibacterial; used in treatment of fever, diarrhea and diseases of the urinary system. **Source:** RU LAN *Stephania hernandifolia*. **Ref:** 658.

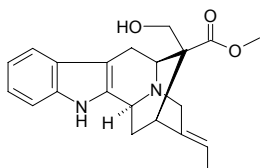


823 Akuammicine

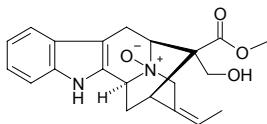
[639-43-0] $C_{20}H_{22}N_2O_2$ (322.41). **Pharm:** Gonad stimulating principle. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 2, 658.

**824 19-(Z)-Akuammidine**

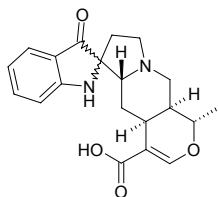
[639-36-1] $C_{21}H_{24}N_2O_3$ (352.44). mp 247~250°C, $[\alpha]_D = +9^\circ$. **Pharm:** Local anesthetic; antihypertensive; skeletal muscle relaxant. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14, 658.

**825 Akuammidine N-oxide**

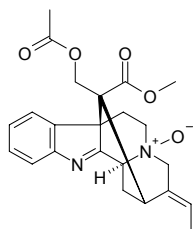
$C_{21}H_{24}N_2O_4$ (368.44). mp 250°C (dec). **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14.

**826 Akuammigine pseudoindoxyl**

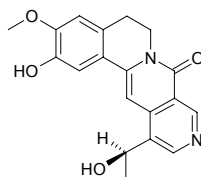
$C_{20}H_{22}N_2O_4$ (354.41). **Source:** TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

**827 Akuammiline N(4)-oxide**

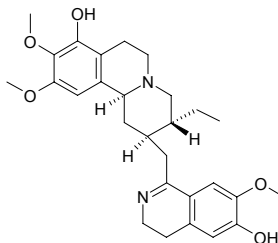
$C_{23}H_{26}N_2O_5$ (410.47). $[\alpha]_D = -144^\circ$ ($c = 0.13$, $CHCl_3$). **Source:** MA LAI XI YA RUI MU *Kopsia griffithii*. **Ref:** 1854.

**828 Alamarine**

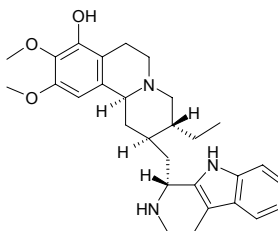
[77156-18-4] $C_{19}H_{18}N_2O_4$ (338.37). **Pharm:** Treatment of leprosy; dermatitis suppressant. **Source:** AN GE LA BA JIAO FENG *Alangium lamarckii*. **Ref:** 658.

**829 Alangicine**

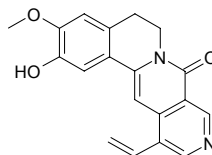
[16531-04-7] $C_{28}H_{36}N_2O_5$ (480.61). **Pharm:** Treatment of leprosy; dermatitis suppressant. **Source:** AN GE LA BA JIAO FENG *Alangium lamarckii*. **Ref:** 658.

**830 Alangimarckine**

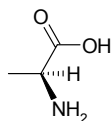
[13849-53-1] $C_{29}H_{37}N_3O_3$ (475.64). **Pharm:** Treatment of leprosy; dermatitis suppressant. **Source:** AN GE LA BA JIAO FENG *Alangium lamarckii*. **Ref:** 658.

**831 Alangimarine**

[77156-16-2] $C_{19}H_{16}N_2O_3$ (320.35). **Pharm:** Treatment of leprosy; dermatitis suppressant. **Source:** AN GE LA BA JIAO FENG *Alangium lamarckii*. **Ref:** 658.

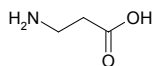
**832 L-Alanine**

[56-41-7] $C_3H_7NO_2$ (89.09). **Pharm:** Food additive; reverses glucopenia and ketosis caused by starvation; glucagon secretion promotor (patients with pancreatitis). **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.74%~1.70%, mean content = 1.20%^[5521]), CHANG JIAO DOU *Ceratonia siliqua*. **Ref:** 658, 5521.

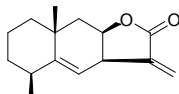


833 β -Alanine

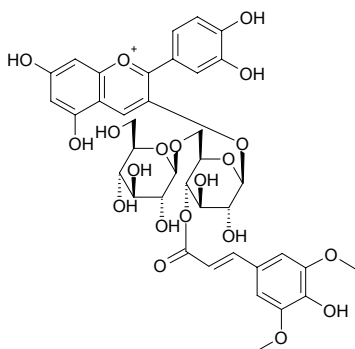
[107-95-9] $C_3H_7NO_2$ (89.09). **Pharm:** Neurotoxin (bird). **Source:** DAN JI ER YUAN WEI *Iris tingitana*, *Lunaria* sp. **Ref:** 658.

**834 Alantolactone**

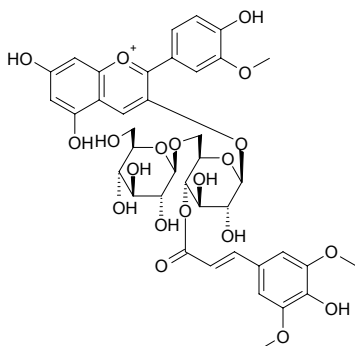
[546-43-0] $C_{15}H_{20}O_2$ (232.33). mp 76–79°C, bp 275°C, soluble in benzene, diethyl ether, ethanol. **Pharm:** Antibacterial; antifungal; anthelmintic; choleric; used in treatment of urethral infection; antitussive (dispels phlegm); plant growth and germination inhibitor (seed); kills liver-fluke (*Fasciola hepatica*). **Source:** TU MU XIANG *Inula helenium* (root: content scope = 1.33%–2.79%^[5501], mean content of 3 batch samples = 1.19%^[5508]), DA YE TU MU XIANG *Inula grandis*, MEI LI XUAN FU HUA *Inula magnifica*, DI TANG HUA *Kerria japonica*, KONG QUE CAO *Tagetes patula*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], ZONG ZHUANG TU MU XIANG *Inula racemosa* (root: mean content of 4 batch samples = 2.02%^[5508]). **Ref:** 1, 2, 5501, 5508.

**835 Alatanin 1**

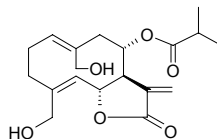
Cyanidin 3-*O*-(4"-*O*-sinapoyl gentiobioside) $C_{38}H_{41}O_{20}^+$ (817.74). **Source:** MAO SHU *Dioscorea alata*. **Ref:** 660.

**836 Alatanin 2**

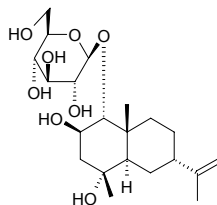
Peonidin 3-*O*-(4"-*O*-sinapoyl gentiobioside) $C_{39}H_{43}O_{20}^+$ (831.77). **Source:** MAO SHU *Dioscorea alata*. **Ref:** 660.

**837 Alatolide**

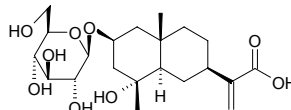
[41929-10-6] $C_{19}H_{26}O_6$ (350.42). mp 59–61°C, $[\alpha]_D^{25} = +64.4^\circ$. **Pharm:** Antineoplastic (mus inoculated tumor, strongly inhibits cellular hyperplasia, EAC, InRt = 96%, HeLa, 56 μ mol/L, InRt to protein synthesis = 93.8%, InRt to DNA synthesis = 91.9%, HeLa, 28 μ mol/L, InRt to protein synthesis = 73%, InRt to DNA synthesis = 5.7%); cytotoxic (KB, hmn epicytoma HEPZ). **Source:** YI CHI LING JU *Jurinea alata*. **Ref:** 1.

**838 Alatoside A**

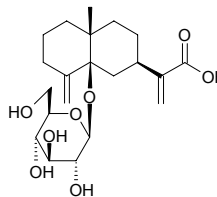
1 α -*O*-(β -*D*-Glucopyranosyloxy)-7-epi-eudesma-11-en-2b,4 α -diol $C_{21}H_{36}O_8$ (416.52). Gum, $[\alpha]_D^{20} = -93.1^\circ$ ($c = 0.44$, MeOH). **Source:** LIU LENG JU *Laggera alata*. **Ref:** 3411.

**839 Alatoside B**

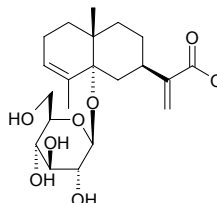
2 β -*O*-(β -*D*-Glucopyranosyloxy)-eudesma-4 α -hydroxyl-11(13)-en-12-oic-acid $C_{21}H_{34}O_9$ (430.50). Gum, $[\alpha]_D^{20} = -108.4^\circ$ ($c = 0.20$, MeOH). **Source:** LIU LENG JU *Laggera alata*. **Ref:** 3411.

**840 Alatoside C**

5 β -*O*-(β -*D*-Glucopyranosyloxy)-eudesma-4(15),11(13)-dien-12-oic-acid $C_{21}H_{32}O_8$ (412.48). Gum, $[\alpha]_D^{20} = -88.0^\circ$ ($c = 0.17$, MeOH). **Source:** LIU LENG JU *Laggera alata*. **Ref:** 3411.

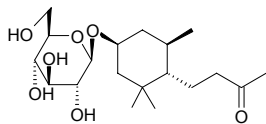
**841 Alatoside D**

5 α -*O*-(β -*D*-Glucopyranosyloxy)-eudesma-3,11(13)-dien-12-oic acid $C_{21}H_{32}O_8$ (412.48). Gum, $[\alpha]_D^{20} = -16.5^\circ$ ($c = 0.24$, MeOH). **Source:** LIU LENG JU *Laggera alata*. **Ref:** 3411.

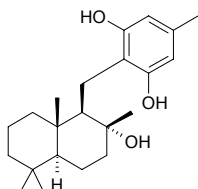


842 Alatoside E

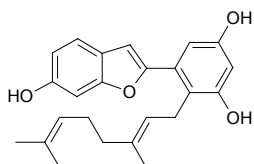
3β -*O*-(β -D-Glucopyranosyloxy)-megastigma-9-one $C_{19}H_{34}O_7$ (374.48). Gum, $[\alpha]_D^{20} = -18^\circ$ ($c = 0.20$, MeOH). Source: LIU LENG JU *Laggera alata*. Ref: 3411.

**843 Albaconol**

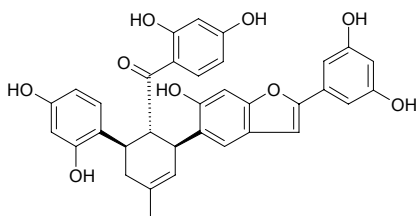
$C_{22}H_{34}O_3$ (346.51). Pharm: Vanilloid receptor 1 (VR1) antagonist ($IC_{50} = 5\mu\text{mol/L}$); cytotoxic (inhibits significantly growth of hmn tumor cell lines: K562, $IC_{50} = (8.0\pm 0.4)\mu\text{mol/L}$; A549, $IC_{50} = (3.17\pm 0.89)\mu\text{mol/L}$; BGC823, $IC_{50} = (4.18\pm 0.14)\mu\text{mol/L}$; Bcap-37, $IC_{50} = (7.5\pm 2.5)\mu\text{mol/L}$; acts on DNA topo II)^[5014]; smooth muscle contractor (tracheal, $pEC_{50} = 4.23\pm 0.18$, $n = 10$)^[5431]. Source: YUN NAN DI HUA JUN *Albatrellus confluens*. Ref: 2271, 5014, 5431.

**844 Albafuran A**

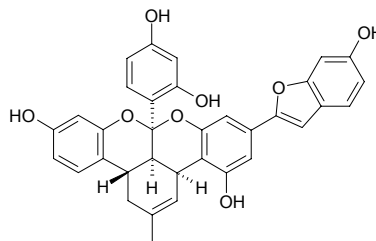
[84323-14-8] $C_{24}H_{26}O_4$ (378.47). Pharm: Antifungal. Source: SANG YE *Morus alba*. Ref: 658.

**845 Albafuran C**

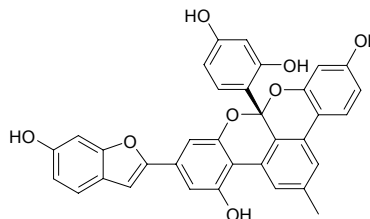
$C_{34}H_{28}O_9$ (580.60). $[\alpha]_D^{29} = -463.8^\circ$ ($c = 0.13$, MeOH). Pharm: Antioxidant (100 $\mu\text{mol/L}$, InRt of MDA = 94.2%, control Vitamin E, InRt of MDA = 81.5%; 10 $\mu\text{mol/L}$, InRt of MDA = 76.2%, Vitamin E, InRt of MDA = 33.9%). Source: NAI SANG *Morus macroura* (stem bark). Ref: 5013.

**846 Albanol A**

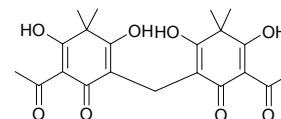
[87085-00-5] $C_{34}H_{26}O_8$ (562.58). Pharm: Antihypertensive; cytotoxic (aromatase inhibitor)^[5038]; aromatase inhibitor (*in vitro*, $IC_{50} = 7.5\mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4\mu\text{mol/L}$)^[3090]. Source: GOU SHU *Broussonetia papyrifera*, SANG YE *Morus alba*. Ref: 658, 3090, 5038.

**847 (\pm)-Albanol B**

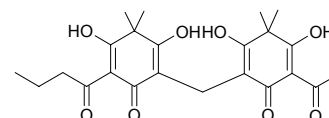
$C_{34}H_{22}O_8$ (558.55). Pharm: Antibacterial (*Enterococcus faecalis* JCM7783 (VSE), MIC = 3.13 $\mu\text{g/mL}$, control Linezolid, MIC = 1.56 $\mu\text{g/mL}$; *Enterococcus faecalis* JU1856 (VRE, VanA), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 0.78 $\mu\text{g/mL}$; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 0.78 $\mu\text{g/mL}$; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25 $\mu\text{g/mL}$, Linezolid, MIC = 1.56 $\mu\text{g/mL}$; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 0.78 $\mu\text{g/mL}$; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 1.56 $\mu\text{g/mL}$; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 0.78 $\mu\text{g/mL}$; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 1.56 $\mu\text{g/mL}$; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13 $\mu\text{g/mL}$, Linezolid, MIC = 0.78 $\mu\text{g/mL}$; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 3.13 $\mu\text{g/mL}$, Linezolid, mean MIC₈₀ = 0.78 $\mu\text{g/mL}$). Source: *Morus lhou*. Ref: 5007.

**848 Albaspidin AA**

$C_{21}H_{24}O_8$ (404.42). Source: DE LA MENG DE JIN SI TAO *Hypericum drummondii*. Ref: 1521.

**849 Albaspidin AB**

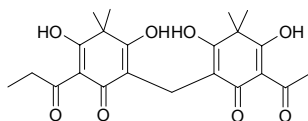
$C_{23}H_{28}O_8$ (432.47). Source: MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.



850 Albaspidin AP

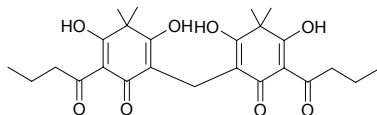
$C_{22}H_{26}O_8$ (418.45). Source: MAO GUAN ZHONG *Dryopteris championii*.

Ref: 660.

**851 Albaspidin BB**

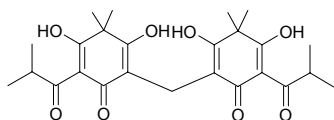
$C_{25}H_{32}O_8$ (460.53). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*,

MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.

**852 Albaspidin iBiB**

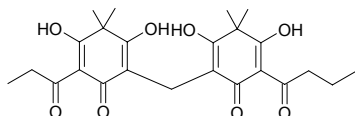
Japonicine A $C_{25}H_{32}O_8$ (460.53). Source: DI ER CAO *Hypericum japonicum*.

Ref: 660.

**853 Albaspidin PB**

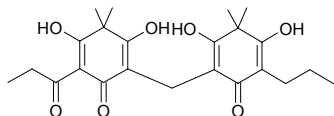
$C_{24}H_{30}O_8$ (446.50). Source: MAO GUAN ZHONG *Dryopteris championii*.

Ref: 660.

**854 Albaspidin PP**

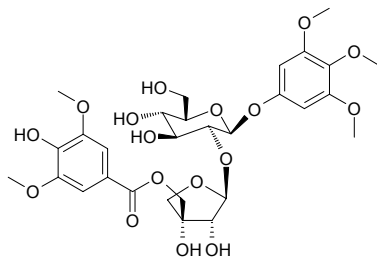
$C_{23}H_{30}O_7$ (418.49). Source: MAO GUAN ZHONG *Dryopteris championii*.

Ref: 660.

**855 Albibrissinoside A**

3,4,5-Trimethoxyphenyl-1-O-β-D-(5-O-syringoyl)-apiofuranosyl-(1→2)-β-D-glucopyranoside $C_{29}H_{38}O_{17}$ (658.62). Amorphous powder, $[\alpha]_D^{20} = +3.70^\circ$

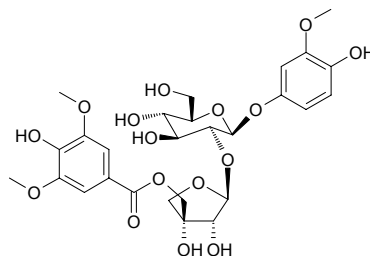
($c = 0.015$, MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 2553.

**856 Albibrissinoside B**

4-Hydroxy-3-methoxyphenyl-1-O-β-D-(5-O-syringoyl)-apiofuranosyl-(1→2)-β-D-glucopyranoside $C_{27}H_{34}O_{16}$ (614.56). Amorphous powder, $[\alpha]_D^{20} =$

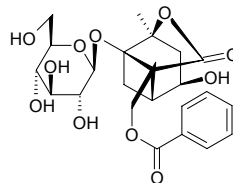
$+3.29^\circ$ ($c = 0.002$, MeOH). Pharm: Antioxidant (DPPH scavenger). Source:

HE HUAN PI *Albizzia julibrissin*. Ref: 2553.

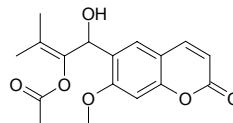
**857 Albiflorin**

[39011-90-0] $C_{23}H_{28}O_{11}$ (480.47). Source: BAI SHAO *Paeonia albiflora*

[Syn. *Paeonia lactiflora*], CHI SHAO *Paeonia lactiflora* wild. Ref: 2.

**858 Albiflorin-1**

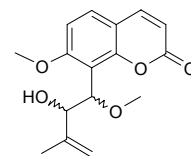
$C_{17}H_{18}O_6$ (318.33). mp 128°C. Source: YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.

**859 Albiflorin-2**

7-Methoxy-8-(1'-methoxy-2'-hydroxy-3'-methyl-3'-butenyl)coumarin

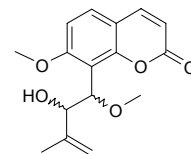
$C_{16}H_{18}O_5$ (290.32). mp 94–95°C. Source: JIU LI XIANG *Murraya*

paniculata [Syn. *Chalcas paniculata*], YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 11, 2495.

**860 Albiflorin-3**

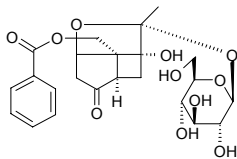
$C_{16}H_{18}O_5$ (290.32). Diastereomer of Albiflorin 2, mp 144–145°C. Source:

YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.

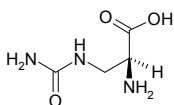


861 Albiflorin R₁

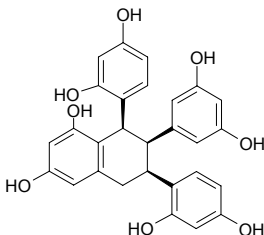
C₂₃H₂₈O₁₁ (480.47). Colorless needles, mp 203~205°C. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 2239.

**862 L-Albizziine**

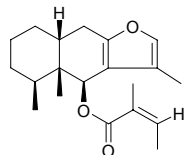
L(-)-2-Amino-3-ureidopropionic acid [1483-07-4] C₄H₉N₃O₃ (147.34). mp 214~215°C. Pharm: Pesticide. Source: HE HUAN PI *Albizia julibrissin*, YU ZHUANG HE HUAN *Albizia lophantha*, *Acacia* sp. Ref: 6, 658.

**863 Albotalol**

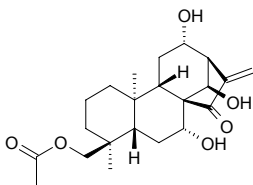
C₂₈H₂₄O₈ (488.50). Source: SANG ZHI *Morus alba*. Ref: 1521.

**864 Albopetasin**

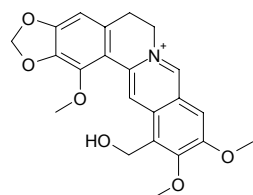
C₂₀H₂₈O₃ (316.44). mp 106~107°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**865 Albopilosin A**

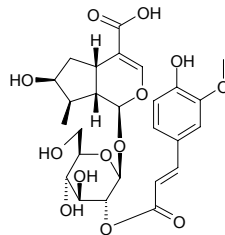
C₂₂H₃₂O₆ (392.50). mp 240~242°C, [α]_D²⁶ = -46.5° (c = 1.0, C₅H₅N). Source: BAI ROU MAO XIANG CHA CAI *Isodon albopilosus*. Ref: 4067.

**866 Alborine**

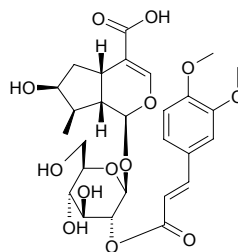
C₂₂H₂₂NO₆ (396.42). Source: HONG HUA LV RONG HAO *Meconopsis punicea*. Ref: 660.

**867 Alboside I**

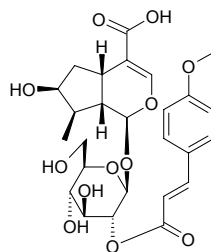
C₂₆H₃₂O₁₃ (552.54). Amorphous solid, [α]_D = -46.7° (c = 2.4, H₂O). Source: BAI XUE GUO MU *Chiococca alba*. Ref: 2313.

**868 Alboside II**

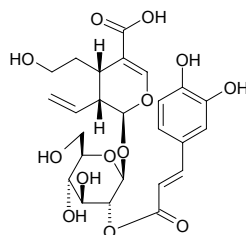
C₂₇H₃₄O₁₃ (566.56). Amorphous solid, [α]_D = -30.7° (c = 0.9, MeOH). Source: BAI XUE GUO MU *Chiococca alba*. Ref: 2313.

**869 Alboside III**

C₂₆H₃₂O₁₂ (536.54). Amorphous solid, [α]_D = -46.7° (c = 0.9, MeOH). Source: BAI XUE GUO MU *Chiococca alba*. Ref: 2313.

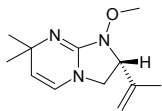
**870 Alboside IV**

C₂₅H₃₀O₁₃ (538.51). Gum, [α]_D = -51.5° (c = 0.5, H₂O). Pharm: Antimutant (DNA repair-deficient mutant of *Saccharomyces cerevisiae* RS321, moderate activity)^[2313]. Source: BAI XUE GUO MU *Chiococca alba*. Ref: 2313.

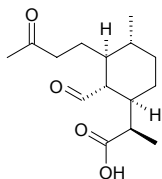


871 Alchorneine

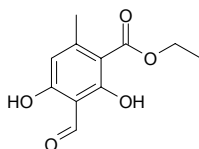
[28340-21-8] C₁₂H₁₉N₃O (221.30). Pharm: Antispasmodic (dog); parasympathetic ganglionic blocker (anti-vagus); inhibits intestinal movement. Source: DUO HUA SHAN MA GAN *Alchornea floribunda*. Ref: 658.

**872 1 α -Aldehyde-2 β -[3-butanone]-3 α -methyl-6 β -[2-propanoic acid]-cyclohexane**

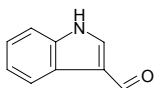
C₁₅H₂₄O₄ (268.36). Colorless oil, [α]_D = -21.8° (*c* = 0.3, CHCl₃). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**873 3-Aldehyde-6-methyl-2,4-dihydroxy-ethyl-benzoate**

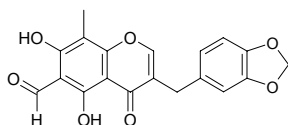
C₁₁H₁₂O₅ (224.22). White bar crystals. Source: JIN SI SHUA *Lethariella cladonioides*. Ref: 4582.

**874 3-Aldehydoindole**

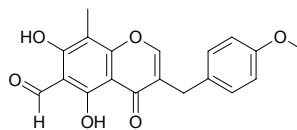
3-Formyl indole C₉H₇NO (145.16). Source: DUAN ROU MAO DA JI *Euphorbia pubescens*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00009%dw), RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00013%dw), TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), YI ZHU QIAN MA *Urtica dioica*. Ref: 660, 4488, 4502, 4722, 4752, 5384.

**875 6-Aldehyde-isoophiopogone A**

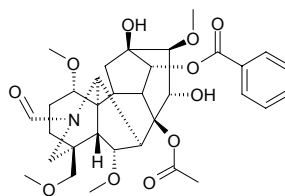
6-Aldehyde-isoophiopogonone A C₁₉H₁₄O₇ (354.32). Orange acicular crystals, mp 170~172°C. Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 83, 4663.

**876 6-Aldehyde-isoophiopogone B**

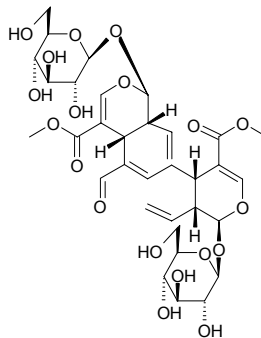
5,7-Dihydroxy-8-methyl-6-aldehyde-3-(4'-methoxybenzyl) chromone C₁₉H₁₆O₆ (340.34). Light red acicular crystals, mp 144~145°C. Source: MAI DONG *Ophiopogon japonicus*. Ref: 83.

**877 Aldohypaconitine**

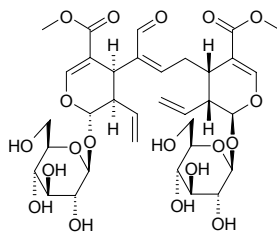
C₃₃H₄₃NO₁₁ (629.71). White clustered crystals, mp 262~264°C, [α]_D²⁰ = -56.9° (*c* = 0.30, CHCl₃). Source: WU TOU *Aconitum carmichaeli*. Ref: 460.

**878 (E)-Aldosecologanin**

C₃₄H₄₆O₁₉ (758.73). Amorphous powder, [α]_D²⁶ = -135.6° (*c* = 0.295, MeOH). Source: JIN YIN HUA *Lonicera japonica* (stem and leaf). Ref: 4220.

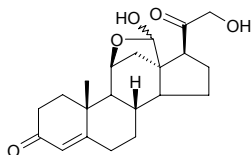
**879 (Z)-Aldosecologanin**

C₃₄H₄₆O₁₉ (758.73). Amorphous powder, [α]_D²⁶ = -164.3° (*c* = 0.141, MeOH). Source: JIN YIN HUA *Lonicera japonica* (stem and leaf). Ref: 4220.

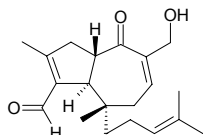


880 Aldosterone

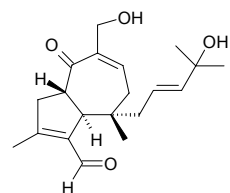
3,20-Diketo-11 β ,18-oxido-4-pregnene-14,21-diol [52-39-1] C₂₁H₂₈O₅ (360.45). mp 164~169°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**881 Aldovibsanin B**

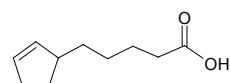
C₂₀H₂₈O₃ (316.44). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00001%dw)^[3004]. Ref: 3004.

**882 Aldovibsanin C**

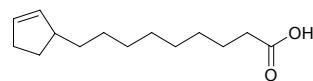
C₂₀H₂₈O₄ (332.44). Colorless amorphous solid, [α]_D = +0.9° (c = 0.1, CHCl₃). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00005%dw). Ref: 3004.

**883 Aleprestic acid**

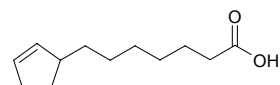
C₁₀H₁₆O₂ (168.24). Source: DA FENG ZI *Hydnocarpus anthelminticus*. Ref: 1.

**884 Aleptic acid**

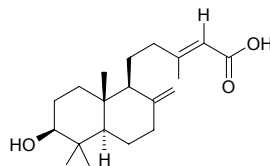
[2519-24-6] C₁₄H₂₄O₂ (224.35). mp 48°C. Source: DA FENG ZI *Hydnocarpus anthelminticus*. Ref: 1.

**885 Aleprylic acid**

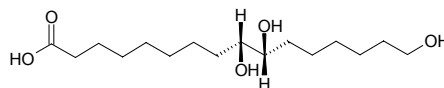
[2348-91-6] C₁₂H₂₀O₂ (196.29). mp 32°C. Source: DA FENG ZI *Hydnocarpus anthelminticus*. Ref: 1.

**886 Alepterolic acid**

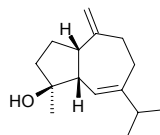
[63399-38-2] C₂₀H₃₂O₃ (320.48). mp 162.5~163.0°C. Source: TONG JING CAO *Aleuritopteris argentea*. Ref: 6.

**887 Aleuritic acid**

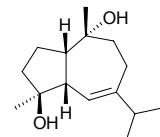
[533-87-9] C₁₆H₃₂O₅ (304.43). mp 102°C. Source: ZI CAO RONG *Laccifer lacca*. Ref: 6.

**888 Alismol**

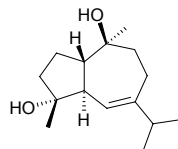
(+)-Alismol C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁰ = +14.65° (c = 0.087, CHCl₃). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], *Lobophytum* sp. Ref: 660, 4565.

**889 Alismoxide 1**

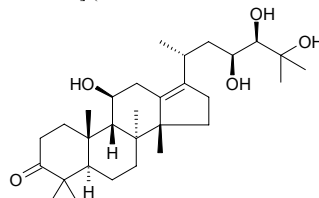
C₁₅H₂₆O₂ (238.37). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (33.1 \pm 4.1)%), control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, *p* < 0.01)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**890 Alismoxide 2**

C₁₅H₂₆O₂ (238.37). White solid. Source: *Lobophytum* sp. Ref: 4565.

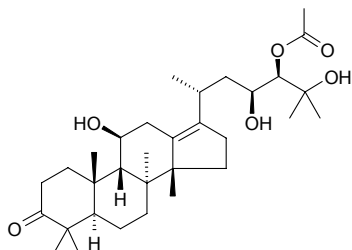
**891 Alisol A**

Epialisol A [19885-10-0] C₃₀H₅₀O₅ (490.73). mp 90~91°C. Pharm: Antihypercholesterolemic (mus, reduces the level of cholesterol in serum). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.035%^[5501]). Ref: 1, 6, 5501.

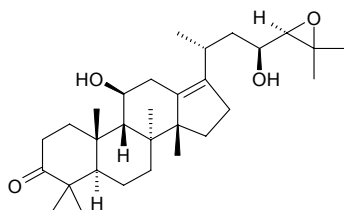


892 Alisol A monoacetate

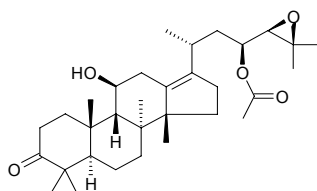
[18674-16-3] $C_{32}H_{52}O_6$ (532.77). mp 194~196°C. **Pharm:** Antihypercholesterolemic (high-cholesterol rat, reduces blood-fat by 61%); anti-allergic (rat, orl, swollen foot model caused by antigen, 0.05mmol/kg and 0.20mmol/kg); antihepatotoxin (mus, liver damage caused by CCl_4); diuretic (mus, sc, 100mg/kg, increases potassium drain). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.15%^[5501]). **Ref:** 6, 1661, 1662, 1663, 1664, 5501.

**893 Alisol B**

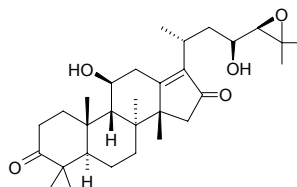
[18649-92-9] $C_{30}H_{48}O_4$ (472.71). mp 166~168°C. **Pharm:** Antiallergic (rat, orl, swollen foot model caused by antigen, 0.05mmol/kg and 0.20mmol/kg); diuretic (rat, orl, 30mg/kg, increases amount of urine and sodium drain); acetylcholine transferase activator (*in vitro*); inhibits ileal contraction (rat, ileum *in vitro*, induced by 5-isoleucine+angiotensin I, InRt = 65%, induced by bradykinin, InRt = 63%, induced by acetylcholine, InRt = 50%); inhibits vasomotion (high concentration KCl-induced). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.030%^[5501]). **Ref:** 6, 1662, 1664, 1665, 1666, 1743, 5501.

**894 Alisol B monoacetate**

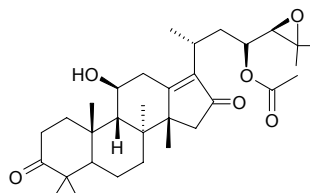
[26575-95-1] $C_{32}H_{50}O_5$ (514.75). mp 162~163°C. **Pharm:** Antihypercholesterolemic (high-cholesterol rat, reduces blood-fat by 55%); antihepatotoxin (mus, liver damage by CCl_4); acetylcholine transferase activator (*in vitro*); inhibits vasomotion (high concentration KCl-induced). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.075%^[5501]). **Ref:** 6, 1661, 1663, 1665, 1666, 5501.

**895 Alisol C**

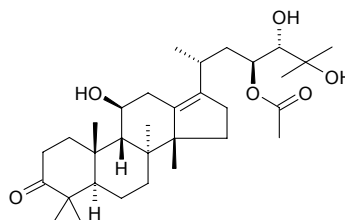
$C_{30}H_{46}O_5$ (486.70). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 660.

**896 Alisol C monoacetate**

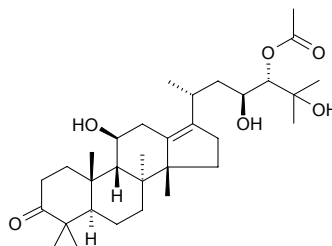
$C_{32}H_{48}O_6$ (528.74). **Pharm:** Antihypercholesterolemic (high-cholesterol rat, reduces blood-fat by 51%); antihepatotoxin (mus, liver damage caused by CCl_4); acetylcholine transferase activator (*in vitro*); inhibits vasomotion (high concentration KCl-induced). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.25%^[5501]). **Ref:** 660, 5501.

**897 Alisol E 23-acetate**

$C_{32}H_{52}O_6$ (532.77). Needles, mp 167.5~169.0°C. **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2213.

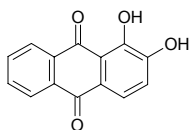
**898 Alisol E 24-acetate**

$C_{32}H_{52}O_6$ (532.77). Needles, mp 169~170°C. **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2213.

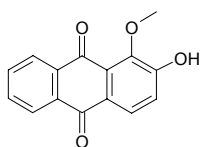


899 Alizarin

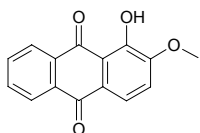
[72-48-0] C₁₄H₈O₄ (240.22). mp 289~290°C, bp 430°C. **Pharm:** Antibacterial (*Staphylococcus aureus*); antineoplastic (leukemia); antihypertensive (animals, no influence on heart); anti-inflammatory (rat, inhibits phoroplast permeability); diuretic; immunosuppressant; Irritant (intestinal vasculature, *in vitro*). **Source:** HAI BA JI *Morinda citrifolia*, QIAN CAO GEN *Rubia cordifolia* (root: content scope = 0.0126%~0.0141%)^[5501], YANG QIAN CAO *Rubia tinctorum*, YANG JIAO TENG *Morinda umbellata*, XIANG CHE YE CAO *Asperula odorata*, ZHANG YE DA HUANG *Rheum palmatum*, *Galium* sp. **Ref:** 1, 4, 6, 7, 5501.

**900 Alizarin-1-methylether**

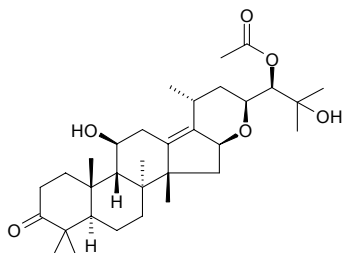
2-Hydroxy-1-methoxyanthraquinone C₁₅H₁₀O₄ (254.24). mp 179°C. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), HAI BA JI *Morinda citrifolia* (fruit), HU CI *Damnacanthus indicus*, YANG JIAO TENG *Morinda umbellata*. **Ref:** 6, 4369, 4542.

**901 Alizarin-2-methylether**

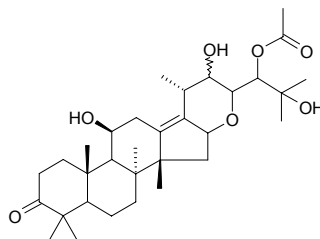
1-Hydroxy-2-methoxyanthraquinone C₁₅H₁₀O₄ (254.24). mp 232~233°C. **Pharm:** Antibacterial (*Bacillus subtilis* and *Escherichia coli*); cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, Doxorubicin, ED₅₀ = 0.11µg/mL). **Source:** QIAN CAO GEN *Rubia cordifolia*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), YANG QIAN CAO *Rubia tinctorum*, YANG JIAO TENG *Morinda umbellata*, XIANG CHE YE CAO *Asperula odorata*, *Galium* sp. **Ref:** 6, 658, 4369.

**902 Alizexol A**

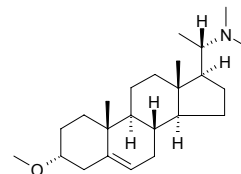
Alisol F 24-acetate; 16β,23β-Epoxy-11β,25-dihydroxy-24(R)-acetoxyprotost-13(17)-en-3-one C₃₂H₅₀O₆ (530.75). Colorless prisms, mp 227~228°C; colorless acicular crystals, mp 203~205°C. **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] **Ref:** 8, 2151.

**903 Alizexol B**

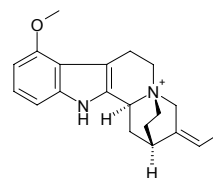
C₃₂H₅₀O₇ (546.75). White needles, mp 264~266°C. **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 8.

**904 Alkaloid C**

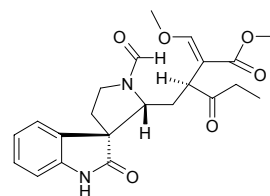
C₂₄H₄₁NO (359.60). White amorphous powder, mp 156~157°C, [α]_D²⁰ = -29° (c = 0.015, CHCl₃). **Pharm:** Spasmolytic (spontaneous contraction of rabbit jejunum, EC₅₀ = 215.0µg/mL, control Verapamil, EC₅₀ = 0.1µg/mL; K⁺ 80mmol/L contracted rabbit jejunum, EC₅₀ = 200.5µg/mL, Verapamil, EC₅₀ = 0.1µg/mL); AChE inhibitor (EC₅₀ = 15.2µg/mL, Verapamil, EC₅₀ = 8.9µg/mL). **Source:** YE SHAN HUA *Sarcococca saligna* (whole herb). **Ref:** 5054.

**905 C-Alkaloid O**

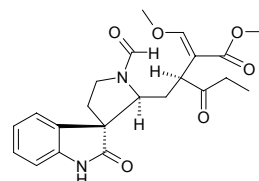
C₂₀H₂₅N₂O (309.44). **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor, IC₅₀ = 290µmol/L; Venezuelan calabash curare, IC₅₀ = 6.5µmol/L). **Source:** *Strychnos guianensis* (stem bark). **Ref:** 5202.

**906 Alkaloid US-7**

C₂₂H₂₆N₂O₆ (414.46). **Source:** XIA GOU TENG *Uncaria attenuata*. **Ref:** 5341.

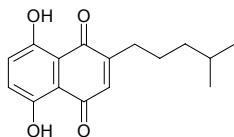
**907 Alkaloid US-8**

C₂₂H₂₆N₂O₆ (414.46). **Source:** XIA GOU TENG *Uncaria attenuata*. **Ref:** 5341.

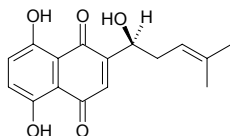


908 Alkannan

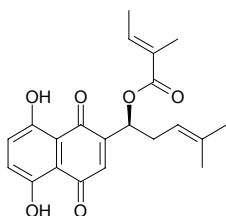
[517-90-8] C₁₆H₁₈O₄ (274.32). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2.

**909 (-)-Alkannin**

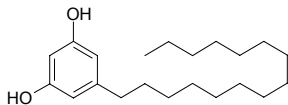
[517-88-4] C₁₆H₁₆O₅ (288.30). Brownish red prismatic crystals (benzene), mp 149°C, [α]_D²⁰ = -165° (benzene); -22.6° (CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, *Staphylococcus epidermidis*); antineoplastic; antifungal (*Candida albicans*); astringent; immunomodulator (low dose); inhibits granulocyte and lymphocyte (high dose); LD₅₀ (male mus) = (3.0±1.0)g/kg, (female mus) = (3.1±0.1)g/kg, (rat) > 1.0g/kg. Source: OU ZI CAO *Alkanna tinctoria*, GAO GUI JIA ZI CAO *Arnebia nobilis*, XIN ZANG JIA ZI CAO *Arnebia euchroma* (root). Ref: 661, 4916.

**910 Alkannin angelate**

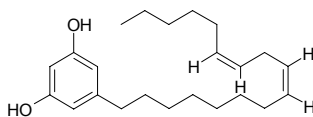
C₂₁H₂₂O₆ (370.41). Pharm: Antineoplastic (rat, Walker sarcoma). Source: GAO GUI JIA ZI CAO *Arnebia nobilis*, ZI CAO *Lithospermum erythrorhizon*. Ref: 2, 658.

**911 Alkylresorcinol A**

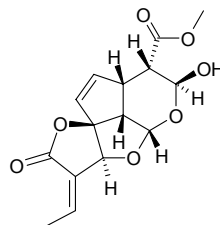
C₂₁H₃₆O₂ (320.52). Pharm: DPPH scavenger (IC₅₀ = 90 μmol/L, control Trolox, IC₅₀ = (25.4±0.8) μmol/L)^[4244]; cytotoxic (murine breast cancer cell line FM3A, IC₅₀ = 2.8 μmol/L)^[4244]. Source: YOU SE ZI JIN NIU *Ardisia colorata* (fruit). Ref: 4244.

**912 Alkylresorcinol C**

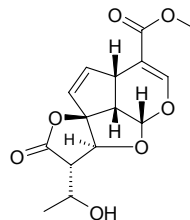
C₂₃H₃₆O₂ (344.54). Pharm: DPPH scavenger (IC₅₀ = 80 μmol/L, control Trolox, IC₅₀ = (25.4±0.8) μmol/L)^[4244]; cytotoxic (murine breast cancer cell line FM3A, IC₅₀ = 2.2 μmol/L)^[4244]. Source: YOU SE ZI JIN NIU *Ardisia colorata* (fruit). Ref: 4244.

**913 Allamandin**

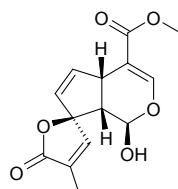
[51820-82-7] C₁₅H₁₆O₇ (308.29). Thin lamellar crystals (methanol-ethyl acetate), mp 212~215°C, [α]_D²¹ = +15° (c = 0.06, methanol). Pharm: Cytotoxic (KB, ED₅₀ = 2.1 μg/mL; P₃₈₈). Source: RUAN ZHI HUANG CHAN *Allemanda cathartica*. Ref: 658, 661.

**914 Allamansicin**

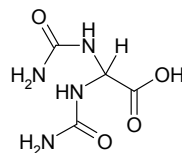
C₁₅H₁₆O₇ (308.29). Lamellar crystals (ether-hexane), mp 117~118°C, [α]_D²¹ = +293° (c = 0.42, CHCl₃). Pharm: Cytotoxic (KB, ED₅₀ > 10 μg/mL, P₃₈₈). Source: RUAN ZHI HUANG CHAN *Allemanda cathartica*. Ref: 658, 661.

**915 Allamandin**

[51820-84-9] C₁₅H₁₆O₆ (292.29). Acicular crystals (ether-hexane), mp 131~132°C (dec), [α]_D²¹ = -35° (c = 0.46, CHCl₃). Pharm: Cytotoxic (KB, ED₅₀ > 10 μg/mL, P₃₈₈). Source: RUAN ZHI HUANG CHAN *Allemanda cathartica*. Ref: 658, 661.

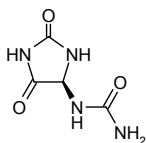
**916 Allantoic acid**

[99-16-1] C₄H₈N₄O₄ (176.13). mp 173°C (dec). Source: ZI TENG *Wisteria sinensis*. Ref: 6.

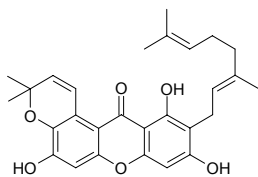


917 Allantoin

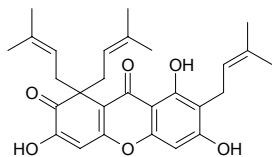
[97-59-6] $C_4H_6N_4O_3$ (158.12). mp 238~240°C, soluble in water and ethanol, almost insoluble in diethyl ether. **Pharm:** Astringent (aluminum salt); deodorant (aluminum salt); sedative. **Source:** BEI MA DOU LING GEN *Aristolochia contorta*, BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GUANG FANG JI *Aristolochia fangchi*, LU JIAO QI SHU *Rhus typhina*, MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*], MIAN MAO MA DOU LING *Aristolochia mollissima* (root and stem: yield = 0.051%^[3026]), QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*], SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*] (tuber: content scope = 0.115%~0.570%, mean content = 0.387%^[5508]), SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], YAO YONG DAO TI HU *Cynoglossum officinale*, ZI TENG *Wisteria sinensis*. **Ref:** 4, 658, 660, 3026, 5386, 5501, 5508.

**918 Allanxanthone B**

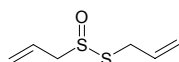
2-Geranyl-1,3,6-trihydroxy-2',2'-dimethyl[5',6':7,8]xanthone $C_{28}H_{30}O_6$ (462.55). Yellow powder, mp 158~160°C. **Source:** *Allanblackia monticola* (stem bark). **Ref:** 3856.

**919 Allanxanthone C**

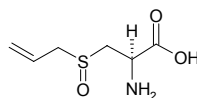
$C_{28}H_{32}O_6$ (464.56). Sticky yellow oil. **Pharm:** Antimalarial (antiplasmodial *in vitro*, FcM29-Cameroon (Chloroquine resistant), IC_{50} 24h = (2.6±0.9)μg/mL, IC_{50} 72h = (0.6±0.02)μg/mL), F32 (Chloroquine sensitive), IC_{50} 24h = (3.2±0.0)μg/mL, IC_{50} 72h = (3.2±0.3)μg/mL); cytotoxic (hmn melanoma cell A375 *in vitro*, IC_{50} 24h = (83.8±7.1)μg/mL). **Source:** *Allanblackia monticola* (stem bark: yield = 0.0065%)^[912]. **Ref:** 912.

**920 Allicin**

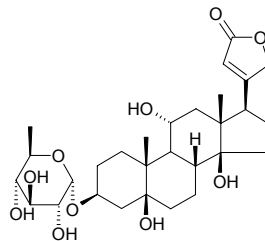
Diallyl disulfide oxide [539-86-6] $C_6H_{10}OS_2$ (162.27). Yellow liquid, soluble in water, ethanol, diethyl ether and benzene. **Pharm:** Antibacterial; antidiabetic; antihypertensive; antithrombotic. **Source:** DA SUAN *Allium sativum* (bulb: content scope = 1.28%~6.63%^[5501]), CONG BAI *Allium fistulosum*. **Ref:** 2, 4, 658, 5501, 5507.

**921 Alliin**

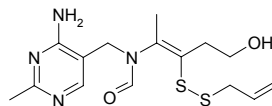
[556-27-4] $C_6H_{11}NO_3S$ (177.22). **Pharm:** Antithrombotic; platelet aggregation inhibitor. **Source:** YANG CONG *Allium cepa*, DA SUAN *Allium sativum*. **Ref:** 2, 658.

**922 Alliside**

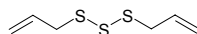
$C_{29}H_{44}O_{10}$ (552.67). **Source:** GUI ZHU XIANG *Cheiranthus cheiri*. **Ref:** 660.

**923 Allithiamine**

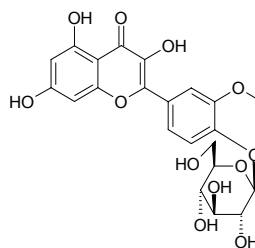
[554-44-9] $C_{15}H_{22}N_4O_2S_2$ (354.50). mp 132~133°C (dec). **Source:** DA SUAN *Allium sativum*. **Ref:** 6.

**924 Allitridin**

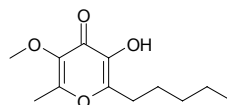
Diallyl trisulfide [2050-87-5] $C_6H_{10}S_3$ (178.34). bp 87~88°C. **Pharm:** Antifungal (*Candida albicans*, EC = 1:51200; *Cryptococcus neoformans*, EC = 1:200800); cytotoxic (carcinoma of stomach cell, EC = 24μg/mL); antihepatotoxin (rat, liver damage caused by CCl₄); Spermicidal (men, rat, 0.15%, 3min, inactivation); LD₅₀ (mus, iv) = 70mg/kg, (mus, orl) = 600mg/kg. **Source:** DA SUAN *Allium sativum*. **Ref:** 4, 5501.

**925 Allioside A**

Quercetin 3'-methoxy-4'-O-β-D-glucopyranoside $C_{22}H_{22}O_{12}$ (478.41). Light yellow powder, mp 252~254°C. **Source:** FEN NIE CONG TOU *Allium cepa* var. *agrogatum*. **Ref:** 859.

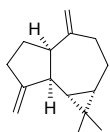
**926 Allixin**

$C_{12}H_{18}O_4$ (226.27). **Source:** DA SUAN *Allium sativum*. **Ref:** 660.

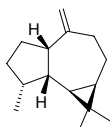


927 (+)-(1R,5S,6S,7S)-Allo-aromadendra-4(15),10(14)-diene

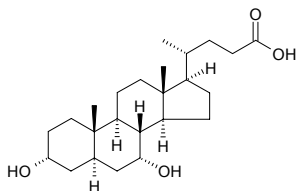
(+)-(1S,4aR,7aS,8S)-1,1-Dimethyl-4,7-dimethylenedecahydro-cyclopropa[e]azulene C₁₅H₂₂ (202.34). Colorless oil. Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**928 Alloaromadendrene**

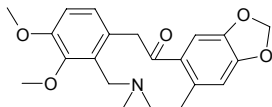
C₁₅H₂₄ (204.36). Source: HOU PO *Magnolia officinalis*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHENG JIANG *Zingiber officinale*, XIE CAO *Valeriana officinalis*. Ref: 2, 660.

**929 Allochenodeoxycholic acid**

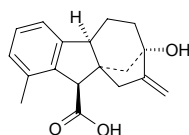
[15357-34-7] C₂₄H₄₀O₄ (392.58). mp 245~246°C. Source: LI YU DAN *Cyprinus carpio*. Ref: 6.

**930 Allocryptopine**

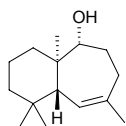
[24240-04-8] C₂₁H₂₃NO₅ (369.42). Colorless prisms, mp 162~164°C, mp 163°C. Pharm: Antiarrhythmic; antibacterial (*Staphylococcus* sp.); oxytocic; anti-HIV inactive (H9 lymphocytes, control AZT, IC₅₀ = 500µg/mL, EC₅₀ = 0.0317µg/mL, TI = 15,800)^[53641]. Source: BAI QU CAI *Chelidonium majus*, BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], BO LUO HUI *Macleaya cordata*, CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.03%^[5508]), DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: content = 0.01%^[5508]), HE QING HUA *Hylomecon japonica*, JI YING SU *Argemone mexicana*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.25%)^[5508], YAN GUO CAO *Thalictrum thumbergii* (root: content < 0.001%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: content = 0.036%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.005%)^[5508]. Ref: 6, 658, 5364, 5508.

**931 Allogibberic acid**

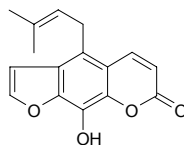
[427-79-2] C₁₈H₂₀O₃ (284.36). Pharm: Inhibits bloom. Source: XI MAI FU PING *Lemna perpusilla*. Ref: 658.

**932 Allohimachalol**

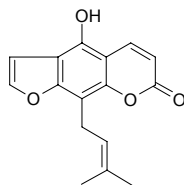
C₁₅H₂₆O (222.37). Source: XUE SONG *Cedrus deodara*. Ref: 660.

**933 Alloimperatorin**

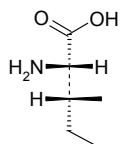
[642-05-7] C₁₆H₁₄O₄ (270.29). Pharm: Antimicrobial; Piscicide. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DA A MI *Ammi majus*, GOU JU *Poncirus trifoliata*, MU⁽⁴⁾ JU *Aegle marmelos*, NI BO ER DU HUO *Heracleum nepalense*, SHE CHUANG ZI *Cnidium monnieri*, SHUAN CHI QIN *Prangos pabularia*, YU SHU SHU *Zea mays*. Ref: 2, 6, 7, 658.

**934 Alloisioimperatorin**

5-Hydroxy-8-(1',1'-dimethylallyl) psoralen [35214-83-6] C₁₆H₁₄O₄ (270.29). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], HANG BAI ZHI *Angelica taiwaniana*, QIANG HUO *Notopterygium incisum*. Ref: 2, 660.

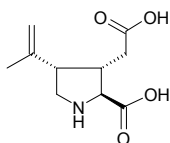
**935 Alloisoleucine**

L-Alloisoleucine C₆H₁₃NO₂ (131.18). mp 280~281°C (dec). Source: QUN DAI CAI *Undaria pinnatifida*. Ref: 6, 660.

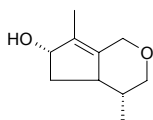


936 α -Allokainic acid

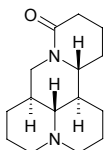
Kainic acid [4071-39-0] $C_{10}H_{15}NO_4$ (213.24). mp 237~238°C (dec); mp 253~254°C (dec). **Pharm:** Anthelmintic (hmn, orl, ED = 20mg). **Source:** HAI REN CAO *Digenea simplex*, ZHE GU CAI *Caloglossa leprieurii*. **Ref:** 6, 658.

**937 Allomatatabiol**

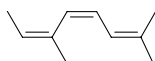
$C_{10}H_{16}O_2$ (168.24). **Source:** MU TIAN LIAO *Actinidia polygama*. **Ref:** 6.

**938 (+)-Allomatrine**

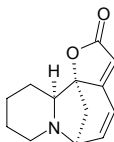
$C_{15}H_{24}N_2O$ (248.37). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

**939 Alloocimene**

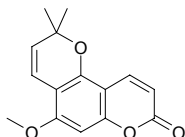
2,6-Dimethyl-2,4,6-octatriene $C_{10}H_{16}$ (136.24). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

**940 Allosecurinine**

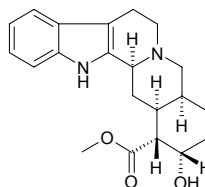
[884-68-4] $C_{13}H_{15}NO_2$ (217.27). mp 136~138°C. **Source:** YI YE QIU *Securinega suffruticosa*. **Ref:** 6.

**941 Alloxanthoxyletin**

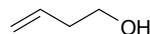
[731-75-9] $C_{15}H_{14}O_4$ (258.28). **Pharm:** Cytotoxic (inhibits DNA biosynthesis by blocking thymidine to go into HL-60 cells). **Source:** MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*] **Ref:** 2176.

**942 Alloyohimbine**

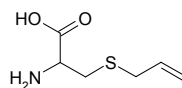
[522-94-1] $C_{21}H_{26}N_2O_3$ (354.45). White powder, mp 139~140°C, $[\alpha]_D^{24} = -76.7^\circ$ ($c = 0.48$, pyridine). **Source:** YANG JIAO MIAN *Alstonia maireri*. **Ref:** 633.

**943 Allylcarbinol**

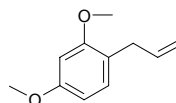
3-Buten-1-ol [627-27-0] C_4H_8O (72.11). Liquid, bp 112.5~113.5°C(755mmHg). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (seed oil). **Ref:** 1521.

**944 S-Allyl-L-cystein**

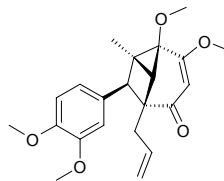
$C_6H_{11}NO_2S$ (161.22). **Source:** DA SUAN *Allium sativum*. **Ref:** 660.

**945 1-Allyl-2,4-dimethoxybenzene**

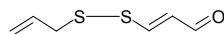
$C_{11}H_{14}O_2$ (178.23). **Source:** XIANG GEN QIN *Osmorhiza aristata* var. *laxa*. **Ref:** 6.

**946 6-Allyl-7-(3,4-dimethoxyphenyl)-2,3-dimethoxy-8-methyl-tricyclo-[4.2.0.0^{2,8}]oct-3-en-5-one**

$C_{22}H_{26}O_5$ (370.45). Amorphous powder, $[\alpha]_D = +67.2^\circ$ ($c = 1.68$, $CHCl_3$). **Source:** YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. **Ref:** 4439.

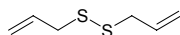
**947 3-Allyldisulfanyl-propenal**

$C_6H_8OS_2$ (160.26). Colorless oil liquid. **Source:** DA SUAN *Allium sativum*. **Ref:** 2186.

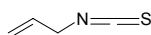


948 Allyl disulfide

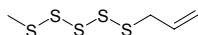
Diallyldisulfide [2179-57-9] C₆H₁₀S₂ (146.27). bp 100°C/48mmHg. **Pharm:** Pesticide. **Source:** BO NIANG HAO *Descurainia sophia*, DA SUAN *Allium sativum*, GE CONG *Allium victorialis*, JIU CAI *Allium tuberosum*, YANG CONG *Allium cepa*. **Ref:** 6, 658.

**949 Allyl isothiocyanate**

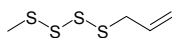
3-Isothiocyanato-1-propene [57-06-7] C₄H₅NS (99.16). mp -80°C, bp 151°C. **Source:** BO NIANG HAO *Descurainia sophia*, GAN LAN *Brassica oleracea* var. *capitata*, JIE ZI *Brassica juncea*. **Ref:** 6, 660.

**950 Allyl methyl pentasulfide**

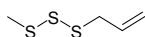
Methyl allyl pentasulfide C₄H₈S₅ (216.43). **Source:** DA SUAN *Allium sativum*. **Ref:** 2.

**951 Allyl methyl tetrasulfide**

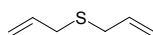
Methylallyltetrasulfide C₄H₈S₄ (184.36). **Source:** DA SUAN *Allium sativum*. **Ref:** 2, 1394.

**952 Allyl methyl trisulfide**

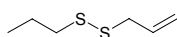
Methyl 2-propenyl trisulfide [34135-85-8] C₄H₈S₃ (152.30). **Pharm:** Platelet aggregation inhibitor (hmn, plasma with rich platelet, IC < 10µmol/L); antineoplastic (female mus, cardiaie sinus cancer induced by benzopyrene, activates glutathione S-transferase in cardiaie sinus). **Source:** XIE BAI *Allium macrostemon*, DA SUAN *Allium sativum*, GE CONG *Allium victorialis*. **Ref:** 2, 61, 391, 1471, 1683, 1684.

**953 Allyl monosulfide**

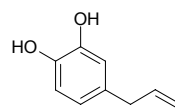
Allyl sulphide [592-88-1] C₆H₁₀S (114.21). bp 139°C/758mmHg. **Pharm:** Irritant (to skin and eyes). **Source:** CONG BAI *Allium fistulosum*, DA SUAN *Allium sativum*, YANG CONG *Allium cepa*. **Ref:** 2, 6, 658.

**954 Allyl propyl disulfide**

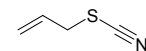
2-Propenyl propyl disulfide [2179-59-1] C₆H₁₂S₂ (148.29). **Source:** DA SUAN *Allium sativum*. **Ref:** 2, 1394.

**955 Allylpyrocatechol**

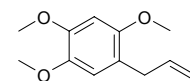
4-Allylpyrocatechol; 4-Allylcatechol [1126-61-0] C₉H₁₀O₂ (150.18). mp 48-49°C. **Pharm:** Cytotoxic (*in vitro*, hmn gastric tumor cell NUGC, 50µmol/L, InRt = 96%)^[4676]; platelet aggregation inhibitor (rbt platelets induced by thrombin, 100µg/mL, add thrombin 0.1u/mL, AggRt = (90.8±0.4)%, control AggRt = (92.6±0.4)%; add ASA, 100µmol/L, 100µg/mL, AggRt = (0.0±0.0)%, 0.5µg/mL, AggRt = (79.9±3.9)%, control AggRt = (87.8±0.3)%, Aspirin 50µg/mL, AggRt = (11.7±10.1)%; add collagen 10µg/mL, 100µg/mL, AggRt = (7.6±3.9)%, 0.5µg/mL, AggRt = (86.9±0.7)%, control AggRt = (89.3±0.5)%, Aspirin 100µg/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 100µg/mL, AggRt = (88.7±0.9)%, control AggRt = (93.0±0.6)%)^[4938]. **Source:** JU JIANG YE *Piper betle*, KAI KOU JIAN *Tupistra chinensis* (underground part), LONG XUE SHU *Dracaena draco* (stem bark), TAI WAN HU JIAO *Piper taiwanense* (stem). **Ref:** 6, 4676, 4696, 4938.

**956 Allylthiocyanate**

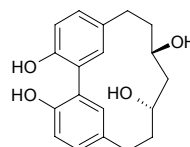
[764-49-8] C₄H₅NS (99.16). bp 161°C. **Source:** GUI ZHU TANG JIE *Erysimum cheiranthoides*. **Ref:** 6.

**957 1-Allyl-2,4,5-trimethoxy-benzene**

γ-Asarone; Isoasarone [5353-15-1] C₁₂H₁₆O₃ (208.26). Colorless acicular crystals (ethyl acetate), mp 28°C, bp 145-147°C (bath temperature). **Pharm:** Antiasthmatic; antibacterial (*Bacillus coli* and *Bacillus subtilis*, EC = 25mg/L); antispasmodic (gpg, trachea and ileum *in vitro*). **Source:** BAI CHANG *Acorus calamus*, JIA JU *Piper sarmentosum*, JIN QIAN PU *Acorus gramineus*, JIN QIAN PU YE *Acorus gramineus*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 6, 660, 900.

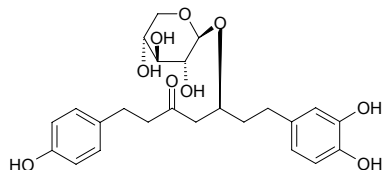
**958 Alnusdiol**

C₁₉H₂₂O₄ (314.38). **Source:** CHI YANG *Alnus japonica*. **Ref:** 660.

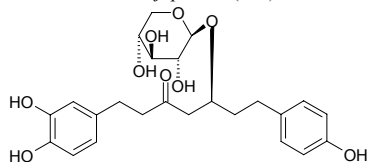


959 Alnuside A

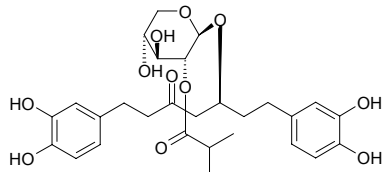
7-(3,4-Dihydroxyphenyl)-5-hydroxy-1-(4-hydroxyphenyl)-3-heptanone-5-*O*- β -D-xylopyranoside C₂₄H₃₀O₉ (462.50). Colorless viscous liquid, [α]_D = -19.5° (*c* = 0.03, MeOH). **Pharm:** Antioxidant (3.125 μ g/mL, superoxide radical scavenging activity = 14.0%, control Urcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 29.0%, control Urcumin 50.0%). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**960 Alnuside B**

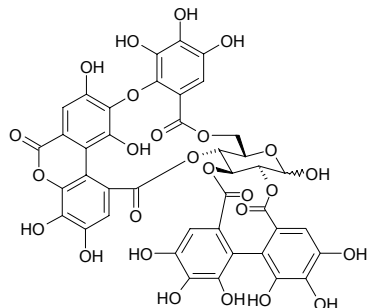
1-(3,4-Dihydroxyphenyl)-5-hydroxy-7-(4-hydroxyphenyl)-3-heptanone-5-*O*- β -D-xylopyranoside C₂₄H₃₀O₉ (462.50). Colorless viscous liquid, [α]_D = -15.5° (*c* = 0.04, MeOH). **Pharm:** Antioxidant (3.125 μ g/mL, superoxide radical scavenging activity = 14.5%, control Urcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 31.1%, control Urcumin 50.0%). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**961 Alnuside C**

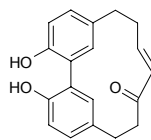
1,7-Bis-(3,4-dihydroxyphenyl)-5-hydroxy-3-heptanone-5-*O*-[2-(2-methylbutenyl)]- β -D-xylopyranoside C₂₉H₃₈O₁₁ (562.62). Colorless viscous liquid, [α]_D = -15.6° (*c* = 0.04, MeOH). **Pharm:** Antioxidant (3.125 μ g/mL, superoxide radical scavenging activity = 19.2%, control Urcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 31.5%, control Urcumin 50.0%). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**962 Alnusiin**

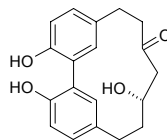
[78836-99-4] C₄₁H₂₆O₂₆ (934.65). **Pharm:** Antineoplastic (S₁₈₀); antioxidant (lipid peroxidation inhibitor, rat, mitochondria of fat cells and macrosome of liver cells). **Source:** XI BO DE QI MU *Alnus sieboldiana*. **Ref:** 658.

**963 Alnusone**

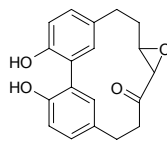
C₁₉H₁₈O₃ (294.35). **Source:** CHI YANG *Alnus japonica*. **Ref:** 660.

**964 Alnusonol**

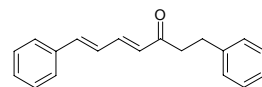
[52330-12-8] C₁₉H₂₀O₄ (312.37). **Source:** CHI YANG *Alnus japonica*. **Ref:** 660.

**965 Alnusoxide**

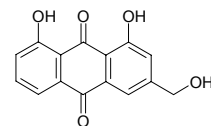
C₁₉H₁₈O₄ (310.35). **Source:** CHI YANG *Alnus japonica*. **Ref:** 660.

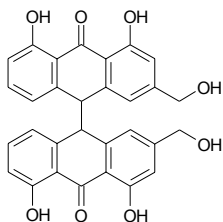
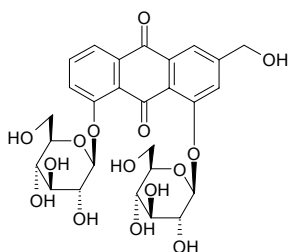
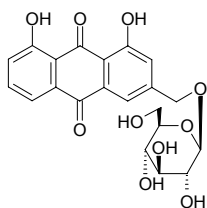
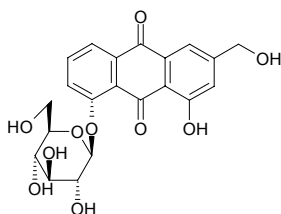
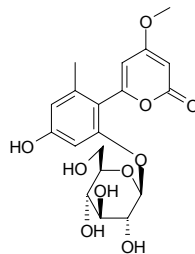
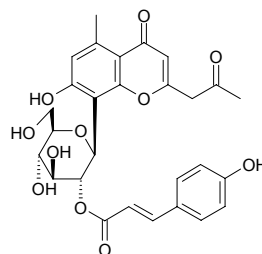
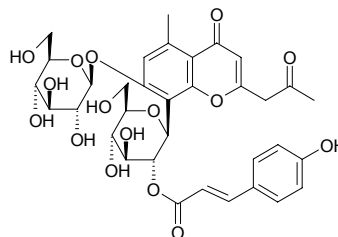
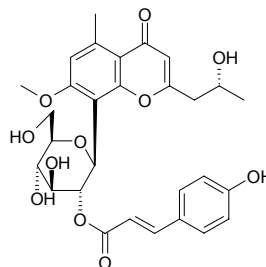
**966 Alnustone**

trans,trans-1,7-Diphenyl-1,3-heptadien-5-one [33457-62-4] C₁₉H₁₈O (262.35). Yellowish acicular crystals (heptane-acetone), mp 63–64°C. **Pharm:** Anti-inflammatory (swollen model by carrageenan). **Source:** CAO DOU KOU *Alpinia katsumadai*, CHUI QI MU *Alnus pendula*, HUANG GEN JIANG *HUANG Curcuma xanthorrhiza*. **Ref:** 952, 978, 1124, 1151, 1521.

**967 Aloemodin**

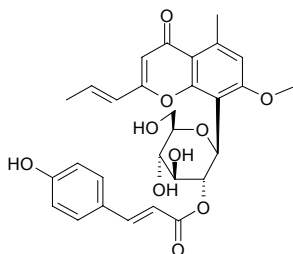
[481-72-1] C₁₅H₁₀O₅ (270.24). **Pharm:** Antibacterial (*Staphylococcus* sp., *Streptococcus* sp., *Bacillus diphtheriae*, *Bacillus subtilis*, *Bacillus anthracis*, *Bacillus paratyphosus*, *Bacillus dysenteriae*, EC = 15–25 μ g/mL); to treat leukemia; genotoxic; laxative. **Source:** BAN WEN LU HUI *Aloe vera* var. *chinensis*, DA HUANG *Rheum officinale*, DUN YE JUE MING *Cassia obtusifolia* (ripe seed: mean content = 0.0094%^[5508]), HAO WANG JIAO LU HUI *Aloe ferox*, JIAN YE FAN XIE YE *Cassia acutifolia*, JUE MING ZI *Cassia tora* (ripe seed: content = 0.0034%^[5508]), LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MU HU DIE *Oroxylum indicum*, NIU SHE CAO *Rumex dentatus*, NIU XI XI *Rumex patientia*, SHAN BIAN DOU ZI *Cassia mimosoides*, SHU LI *Rhamnus davurica*, TANG GU TE DA HUANG *Rheum tanguticum*, WANG JIANG NAN *Cassia occidentalis*, WANG JIANG NAN ZI *Cassia occidentalis*, YOU MU *Tectona grandis*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (stem and rhizome: content < 0.01%^[5508]), ZHANG YE DA HUANG *Rheum palmatum* (stem and rhizome: content = 0.23%^[5508]), *Aloe* sp., *Hemerocallis* sp. **Ref:** 2, 534, 555, 658, 660, 2195, 5501, 5508.



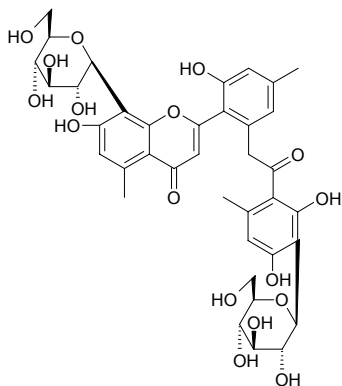
968 Aloemodin bianthrone[4461-75-0] C₃₀H₂₂O₈ (510.51). Dark brown solid, mp > 260°C (dec).Source: FAN XIE YE *Cassia angustifolia*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*]. Ref: 2274.**969 Aloemodin diglucoside**C₂₇H₃₀O₁₅ (594.53). Source: ZHANG YE DA HUANG *Rheum palmatum*.Ref: 2, 660.**970 Aloemodin-*o*-O-β-D-glucopyranoside**C₂₁H₂₀O₁₀ (432.39). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.**971 Aloemodin-8-monoglucoside**C₂₁H₂₀O₁₀ (432.39). Pharm: Laxative. Source: TANG GU TE DA HUANG *Rheum tanguticum* (dried stem and rhizome: mean content of 3 origins = 0.38%^[5517]), ZHANG YE DA HUANG *Rheum palmatum* (dried stem and rhizome: mean content of 4 origins = 0.36%^[5517]). Ref: 658, 5517.**972 Aloenin**[38412-46-3] C₁₉H₂₂O₁₀ (410.38). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2, 5501.**973 Aloeresin A**2'-*O*-*p*-Coumaroylaloenin [74545-79-2] C₂₈H₂₈O₁₁ (540.53). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], *Aloe* spp. Ref: 2, 727.**974 Aloeresin C**[98449-41-3] C₃₄H₃₈O₁₆ (702.67). mp 199~202°C, [α]_D³⁰ = -48.3° (c = 0.06, MeOH). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 733.**975 Aloeresin D**C₂₉H₃₂O₁₁ (556.57). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 660.

976 Aloeresin G

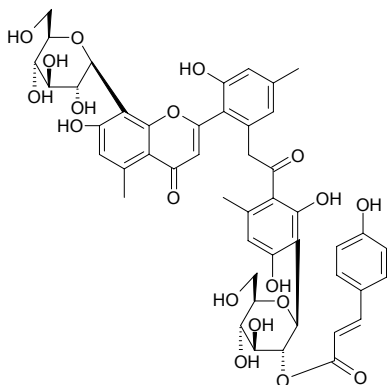
2-[*E*]-Propenyl-7-methoxy-8-*C*- β -*D*-[2'-(*E*)-*p*-coumaroyl]-glucopyranosyl-5-methylchromone C₂₉H₃₀O₁₀ (538.56). White powder, mp 167~169°C. Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 841.

**977 Aloeresin H**

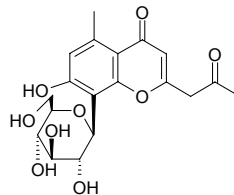
C₃₈H₄₂O₁₇ (770.75). Pharm: Anti-inflammatory (*in vivo*, mouse ear oedema induced by croton oil, 1.0 μ mol/cm², oedema from (6.9 \pm 0.3)mg to (4.8 \pm 0.3)mg, InRt = 30%, control Indomethacin, 0.3 μ mol/cm², oedema (2.7 \pm 0.2)mg, InRt = 61%)^[5047]. Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 5047.

**978 Aloeresin I**

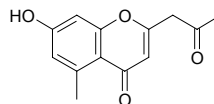
C₄₇H₄₈O₁₉ (916.90). Amorphous powder, mp 227~229°C (dec), [α]_D²⁰ = -91.7° (*c* = 0.5, MeOH). Pharm: Anti-inflammatory (*in vivo*, mouse ear oedema induced by croton oil, 1.0 μ mol/cm², oedema from (6.9 \pm 0.3)mg to (4.2 \pm 0.3)mg, InRt = 39%, control Indomethacin, 0.3 μ mol/cm², oedema (2.7 \pm 0.2)mg, InRt = 61%)^[5047]. Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 5047.

**979 Aloesin**

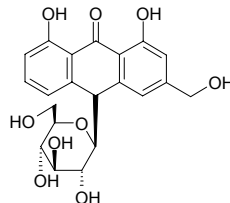
[30861-27-9] C₁₉H₂₂O₉ (394.38). Source: BAN WEN LU HUI *Aloe vera* var. *chinensis*. Ref: 2, 534, 660.

**980 Aloesone**

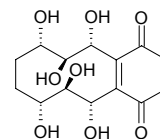
[40738-40-7] C₁₃H₁₂O₄ (232.24). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 729.

**981 Aloin**

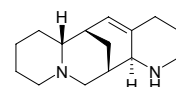
Isobarbaloin C₂₁H₂₂O₉ (418.40). Pharm: Laxative. Source: BAN WEN LU HUI *Aloe vera* var. *chinensis* (leaf: content scope of 11 origins = 0.0006%~0.0261%, mean content = 0.0106%^[5508]), HAO WANG JIAO LU HUI *Aloe ferox*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*] (leaf: content = 0.0319%^[5508]), PEI LI LU HUI *Aloe perryi*, WU GONG ZHANG *Aloe arborescens* var. *natalensis*. Ref: 2, 660, 5501, 5508.

**982 Alopecuquinone**

5 α ,6 β ,7 α ,10 α ,11 β ,12 α -Hexahydroxycyclodeca-1,4-benzoquinone C₁₄H₁₈O₈ (314.29). Orange amorphous material. Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides*. Ref: 1959.

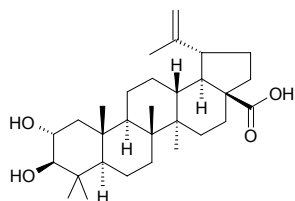
**983 Aloperine**

[56293-29-9] C₁₅H₂₄N₂ (232.37). Pharm: Antiallergic (allergic reaction of type III and IV); antiarrhythmic (rat, arrhythmia induced by aconitine, ED = 10mg/kg, mus, ventricular fibrillation induced by chloroform, ip); anti-inflammatory (variety of acute inflammation); CNS depressant; platelet aggregation inhibitor (rbt, caused by arachidonic acid and collagen of low concentration, IC₅₀ = 184 μ g/L and 38.3 μ g/L respectively); antihypertensive; paralyzes CNS and respiration; slows heart rate; toxin; treatment of bacillary dysentery. Source: KU DOU ZI *Sophora alopecuroides*. Ref: 658.

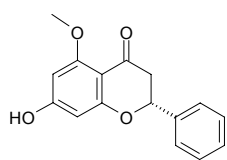


984 Alphitolic acid

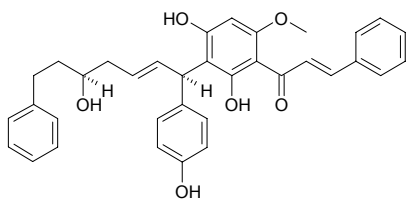
2 α ,3 β -Dihydroxylup-20(29)-en-28-oic acid [19533-92-7] C₃₀H₄₈O₄ (472.71). Colorless needles (CHCl₃-MeOH), mp 275~278°C, [α]_D¹⁹ = -4.0° (c = 1.0, pyridine). **Pharm:** Cytotoxic inactive (K562, ED₅₀ > 20 μ mol/L, control Adriamycin, ED₅₀ = (0.09 \pm 0.03) μ mol/L; B-16 (F-10), ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.06 \pm 0.10) μ mol/L; SK-MEL-2, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.09 \pm 0.3) μ mol/L; PC3, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.83 \pm 0.18) μ mol/L; LOX-IMVI, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.38 \pm 0.33) μ mol/L; A549, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.67 \pm 0.21) μ mol/L)^[5479]. **Source:** BING PIAN *Dryobalanops aromatica*, DA ZAO *Ziziphus jujuba*, SAN YE MU TONG *Akebia trifoliata* (stem), SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*, YANG MEI SHU PI *Myrica rubra*. **Ref:** 2, 4163, 4545, 5479.

**985 Alpinetin**

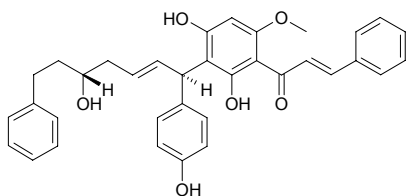
[36052-37-6] C₁₆H₁₄O₄ (270.29). mp 225°C. **Source:** CAO DOU KOU *Alpinia katsumadai* (dried closing-ripe seed: mean content = 0.74%^[5508]), DA CAO KOU *Alpinia speciosa*, LIAN JIANG *Alpinia chinensis*. **Ref:** 6, 5508.

**986 Alpinnanin A**

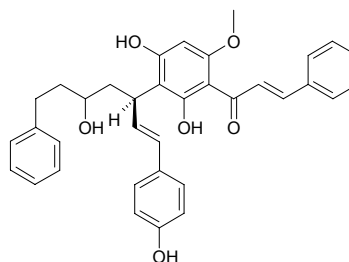
C₃₅H₃₄O₆ (550.66). Pale yellow amorphous powder, [α]_D²⁵ = -33.3° (c = 0.21, MeOH). **Source:** ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). **Ref:** 4522.

**987 Alpinnanin B**

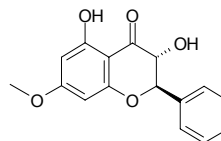
C₃₅H₃₄O₆ (550.66). Pale yellow amorphous powder, [α]_D²⁵ = -39.3° (c = 0.28, MeOH). **Source:** ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). **Ref:** 4522.

**988 Alpinnanin C**

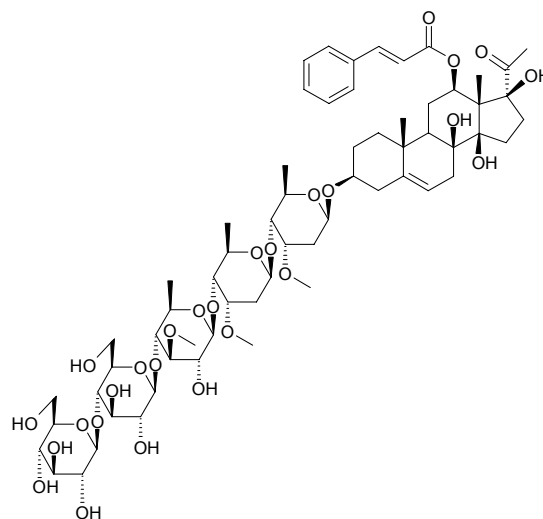
C₃₅H₃₄O₆ (550.66). Pale yellow amorphous powder, [α]_D²⁵ = +42.9° (c = 0.14, MeOH). **Source:** ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). **Ref:** 4522.

**989 Alpinone**

[480-13-7] C₁₆H₁₄O₅ (286.29). mp 186~187°C. **Source:** TU SHA REN *Alpinia japonica*. **Ref:** 6.

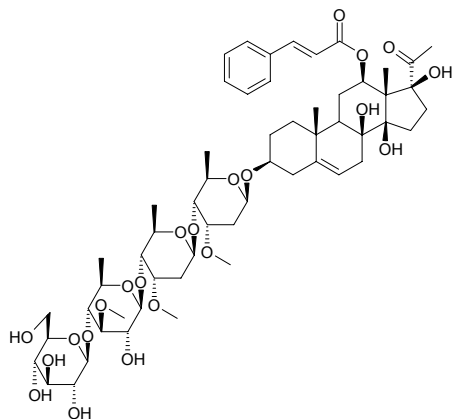
**990 Alpinoside A**

Kidjolanin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside C₆₃H₉₄O₂₇ (1283.44). Amorphous powder, [α]_D²⁵ = -32.8° (c = 0.1, MeOH). **Source:** BIAN ZHONG JIAN HUI TENG *Oxystelma esculentum* var. *alpinii* (leaf). **Ref:** 3798.

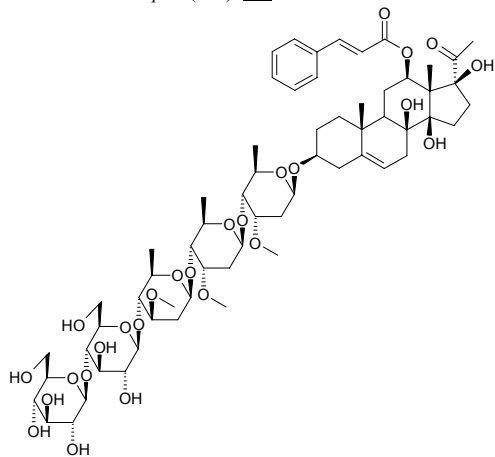


991 Alpinoside B

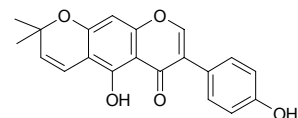
Kidjolanin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside C₅₇H₈₄O₂₂ (1121.29). Amorphous powder, $[\alpha]_D^{25} = -14.6^\circ$ ($c = 0.1$, MeOH). Source: BIAN ZHONG JIAN HUI TENG *Oxystelma esculentum* var. *alpini* (leaf). Ref: 3798.

**992 Alpinoside C**

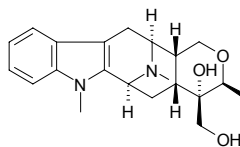
Kidjolanin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside C₆₃H₉₄O₂₆ (1267.44). Amorphous powder, $[\alpha]_D^{25} = -26.2^\circ$ ($c = 0.1$, MeOH). Source: BIAN ZHONG JIAN HUI TENG *Oxystelma esculentum* var. *alpini* (leaf). Ref: 3798.

**993 Alpinumisoflavone**

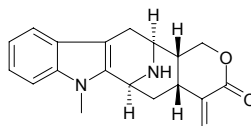
C₂₀H₁₆O₅ (336.35). Pharm: Cytotoxic (HSC-2 cells, CC₅₀ = 0.40mmol/L; HGF, CC₅₀ > 0.60mmol/L)^[3025], cytotoxic (KB, EC₅₀ = 4.13 μ g/mL)^[5220], hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μ mol/L, InRt = (1.1 \pm 0.8)%, inactive, control Silybin, 100 μ mol/L, InRt = (77.0 \pm 5.5)%)^[4095]. Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem bark), GOU JI *Cudrania cochinchinensis* (root: yield = 0.00017%dw), GUANG BU DING GONG TENG *Erycibe expansa*. Ref: 3025, 4095, 5220.

**994 Alstohentine**

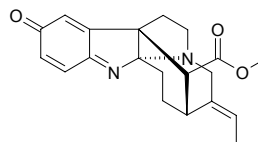
C₂₁H₂₈N₂O₃ (356.49). Yellowish oil, $[\alpha]_D = -58^\circ$ ($c = 0.22$, CHCl₃). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0003%). Ref: 3020.

**995 Alstolactone**

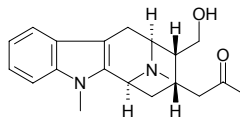
C₂₀H₂₂N₂O₂ (322.41). Light yellowish oil, $[\alpha]_D = -10^\circ$ ($c = 0.05$, CHCl₃). Source: XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). Ref: 3780.

**996 Alstomaline**

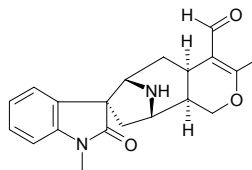
C₂₀H₂₂N₂O₃ (338.41). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.00006%). Ref: 3020.

**997 Alstomicine**

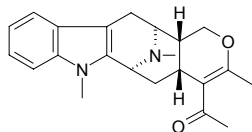
C₂₀H₂₆N₂O₂ (326.44). Light yellowish oil, $[\alpha]_D = +74^\circ$ ($c = 0.14$, CHCl₃). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). Ref: 3020.

**998 Alstonal**

C₂₀H₂₂N₂O₃ (338.41). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.00003%). Ref: 3020.

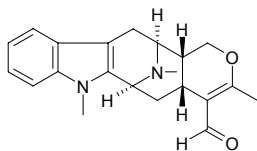
**999 Alstonerinal**

C₂₂H₂₆N₂O₂ (350.46). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0022%). Ref: 3020.

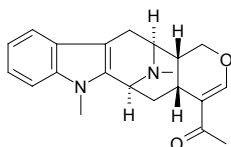


1000 Alstonerinal II*

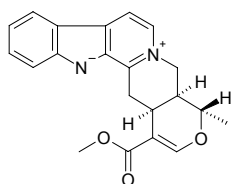
$C_{21}H_{24}N_2O_2$ (336.44). $[\alpha]_D = -32^\circ$ ($c = 0.03$, $CHCl_3$). Source: DA YE TANG JIAO SHU *Alstonia macrophylla*. Ref: 2320.

**1001 Alstonerine**

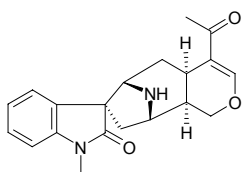
$C_{21}H_{24}N_2O_2$ (336.44). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0070%). Ref: 3020.

**1002 Alstonine**

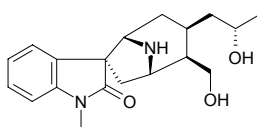
[47485-83-6] $C_{21}H_{20}N_2O_3$ (348.43). Pharm: Antineoplastic (mus, mammary cancer MS301, 400 μ g/d for 15 days, weight of tumor was reduced to 1.6~1.7g on average, whereas 3.2g for control). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CUI TU LUO FU MU *Rauwolfia vomitoria*, GANG GUO LUO FU MU *Rauwolfia obscura*, SHU JI GU CHANG SHAN *Alstonia constricta*. Ref: 2, 658, 660.

**1003 Alstonisine**

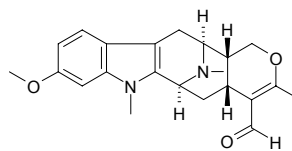
$C_{20}H_{22}N_2O_3$ (338.41). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0001%). Ref: 3020.

**1004 Alstonoxine B**

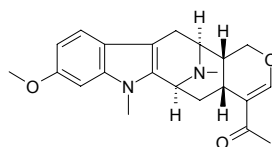
$C_{19}H_{26}N_2O_3$ (330.43). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0040%). Ref: 3020.

**1005 Alstophyllal**

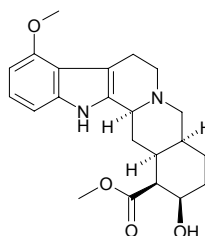
$C_{22}H_{26}N_2O_3$ (366.46). Light yellowish oil. Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0096%). Ref: 3020.

**1006 Alstophylline**

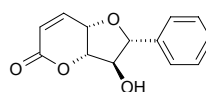
$C_{22}H_{26}N_2O_3$ (366.46). Light yellowish oil. Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0027%). Ref: 3020.

**1007 Alstovenine**

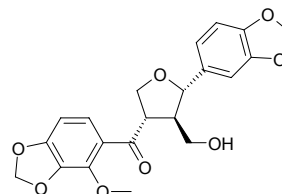
[4837-79-0] $C_{22}H_{28}N_2O_4$ (384.48). Chloride quaternary amine salt: mp 216 $^\circ$ C (dec); quaternary amine salt of picric acid: mp 257~258 $^\circ$ C; free alkali: mp 170~172 $^\circ$ C. Pharm: Monoamine oxidase inhibitor (low dose); CNS stimulant (high dose). Source: YIN DU YA JIAO SHU *Alstonia venenata*. Ref: 66, 658.

**1008 Altholactone**

Goniothalenol [65408-91-5] $C_{13}H_{12}O_4$ (232.24). Pharm: NADH oxidase inhibitor (mammalian mitochondrial respiratory chain inhibitor, $IC_{50} = (25 \pm 7) \mu\text{mol/L}$, $IC_{100} = (84 \pm 6) \mu\text{mol/L}$)^[3961]; cytotoxic (P_{388}); toxin (sea shrimp). Source: DA GE NA XIANG *Goniothalamus giganteus*, TIAN YE GE NA XIANG *Goniothalamus arvensis* (stem bark). Ref: 658, 3961.

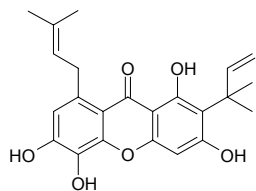
**1009 (-)-Altissinone**

$C_{21}H_{20}O_8$ (400.39). Pale green flakes, mp 151~152 $^\circ$ C, $[\alpha]_D^{25} = -40.3^\circ$ ($c = 0.5$, $CHCl_3$). Source: ZUI GAO MU JING YE *Vitex altissima* (leaf). Ref: 5309.

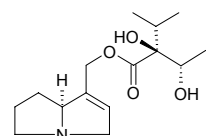


1010 Alvaxanthone

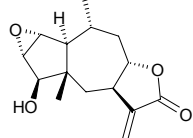
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Cytotoxic (HSC-2 cells, $CC_{50} = 0.022\text{mmol/L}$; HGF, $CC_{50} = 0.025\text{mmol/L}$). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.0045%dw). **Ref:** 3025.

**1011 Amabiline**

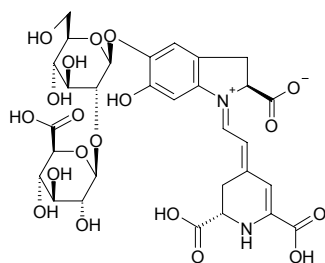
[17958-43-9] $C_{15}H_{25}NO_4$ (283.37). **Pharm:** Toxin (exhibits hepatic toxicity). **Source:** NAN FANG LIU LI CAO *Cynoglossum australe*, GOU SHI HUA *Cynoglossum amabile*. **Ref:** 6, 658.

**1012 Amaralin**

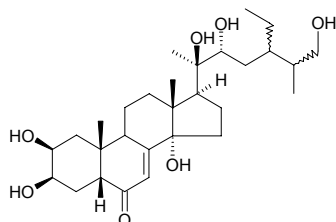
[6831-10-3] $C_{15}H_{20}O_4$ (264.32). Colorless acicular crystals, mp 195–198°C, $[\alpha]_D^{25} = +5^\circ$ (chloroform). **Pharm:** Analgesic; cytotoxic (KB *in vitro*, $ED_{50} = 4.9\mu\text{g/mL}$). **Source:** KU WEI DUI XIN JU *Helenium amarum*. **Ref:** 658, 661.

**1013 Amaranthin**

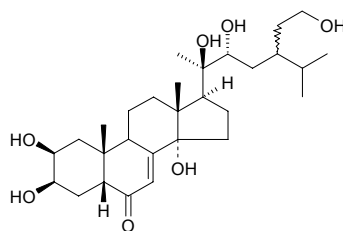
[15167-84-7] $C_{30}H_{34}N_2O_{19}$ (726.61). **Pharm:** Purple phytochrome. **Source:** JI GUAN HUA *Celosia cristata*, QIAN RI HONG *Gomphrena globosa*, WEI SUI XIAN *Amaranthus caudatus*, XIAN SE LI *Chenopodium amaranticolor*, YAN LAI HONG *Amaranthus tricolor*. **Ref:** 5, 15, 658.

**1014 Amarasterone A**

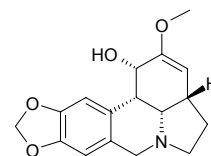
[20853-88-7] $C_{29}H_{48}O_7$ (508.70). mp 210–211°C. **Source:** MA NIU XI *Cyathula capitata*. **Ref:** 6.

**1015 Amarasterone B**

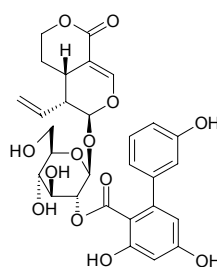
[21132-15-0] $C_{30}H_{50}O_7$ (522.73). mp 284–285°C. **Source:** MA NIU XI *Cyathula capitata*. **Ref:** 6.

**1016 (-)-Amarbellisine**

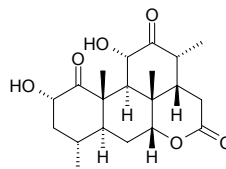
$C_{17}H_{19}NO_4$ (301.35). White needles, mp < 300°C, $[\alpha]_D^{25} = -39.2^\circ$ ($c = 0.7$). **Pharm:** Antibacterial (*Staphylococcus aureus*, IZD = 22mm, MIC = 125µg/mL; *Escherichia coli*, IZD = 22mm); antifungal (*Candida albicans*, IZD = 24mm, MIC = 63µg/mL). **Source:** GU TING HUA *Amaryllis belladonna* (bulb). **Ref:** 3829.

**1017 Amarogentin**

[21018-84-8] $C_{29}H_{30}O_{13}$ (586.55). **Pharm:** Bitter principle; tonic (using source plant *Gentiana*). **Source:** HUANG LONG DAN *Gentiana lutea*, LONG DAN *Gentiana scabra*, DONG BEI LONG DAN *Gentiana manshurica*, DIAN LONG DAN *Gentiana rigescens*, DANG YAO *Swertia chinensis* (in 1966, the compound was isolated from the plant by H.Inouye, et al.^[5505]). **Ref:** 2, 658, 660, 5505.

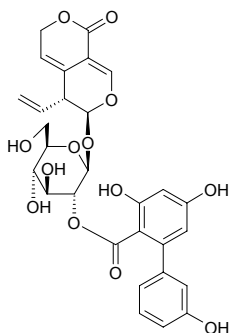
**1018 Amarolide**

[29913-86-8] $C_{20}H_{28}O_6$ (364.44). mp 253–255°C. **Source:** CHU BAI PI *Ailanthus altissima*. **Ref:** 6.

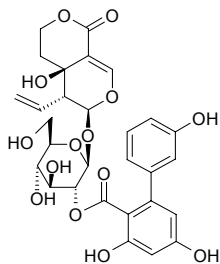


1019 Amaronitidin

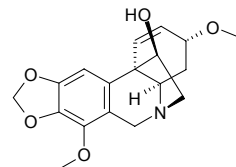
$C_{29}H_{28}O_{13}$ (584.54). Colorless amorphous powder, $[\alpha]_D^{23} = -76.1^\circ$ ($c = 1.40$, MeOH). Source: GUANG LIANG JIA LONG DAN *Gentianaella nitida* (whole herb). Ref: 3542.

**1020 Amaroswerin**

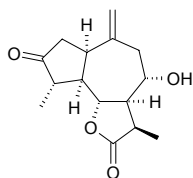
[21233-18-1] $C_{29}H_{30}O_{14}$ (602.55). Pharm: Antihepatotoxin (rat, liver damage caused by CCl_4 , GPT = 83% of control, liver damage caused by galactosamine Ga1N, GPT = 75% of control); mutagen (*S. typhimurium* TA98 and TA100, treated by nitrite); prevention and cure of ulcer and gastritis. Source: LONG DAN *Gentiana scabra*, DONG BEI LONG DAN *Gentiana manshurica*, SAN HUA LONG DAN *Gentiana triflora*, DIAN LONG DAN *Gentiana rigescens*, DANG YAO *Swertia chinensis* (in 1966, the compound was isolated from the plant by H.Inouye, et al.)^[5505]. Ref: 2, 7, 660, 1676, 1796, 1797, 5505.

**1021 Ambelline**

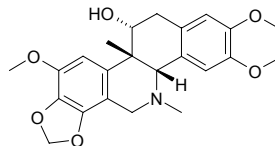
[3660-62-6] $C_{18}H_{21}NO_5$ (331.37). Pharm: Analgesic; supertoxic agent. Source: GU TING HUA *Amaryllis belladonna*, LAO SHI WEN SHU LAN *Crinum laurentii*. Ref: 658.

**1022 Amberboin**

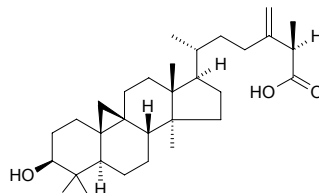
[22339-28-2] $C_{15}H_{20}O_4$ (264.32). mp $145^\circ C$, $[\alpha]_D^{20} = +169^\circ$. Pharm: Cytotoxic (HeLa, $IC_{50} = 50 \mu g/mL$). Source: LI PU PO JU *Amberboa lippii*. Ref: 658, 661.

**1023 Ambinine**

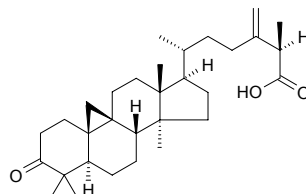
$C_{23}H_{27}NO_6$ (413.47). Source: DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*]. Ref: 660.

**1024 Ambolic acid**

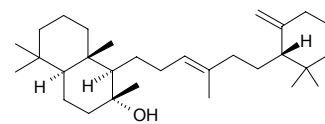
[13878-93-8] $C_{31}H_{50}O_3$ (470.74). mp $168-170^\circ C$. Source: MANG GUO *Mangifera indica*. Ref: 6.

**1025 Ambonic acid**

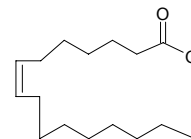
[17984-17-7] $C_{31}H_{48}O_3$ (468.73). mp $149-150^\circ C$. Source: MANG GUO *Mangifera indica*, MANG GUO SHU PI *Mangifera indica*. Ref: 6.

**1026 Ambrein**

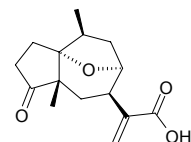
[473-03-0] $C_{30}H_{52}O$ (428.75). mp $81-83^\circ C$. Source: LONG XIAN XIANG *Physeter catodon*, XIAN CHI SHE PU TAO *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*]. Ref: 6.

**1027 Ambrettolide**

[123-69-3] $C_{16}H_{28}O_2$ (252.40). bp $154-156^\circ C/1mmHg$. Source: HUANG KUI *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*]. Ref: 6.

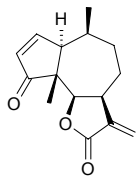
**1028 Ambrosic acid**

$C_{15}H_{20}O_4$ (264.32). Source: MEI ZHOU TUN CAO *Ambrosia artemisiaefolium* (in 1972, the compound was isolated from the plant). Ref: 5505.

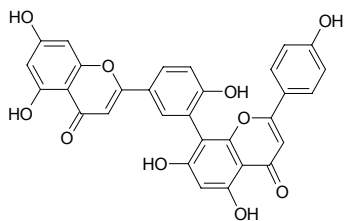


1029 Ambrosin

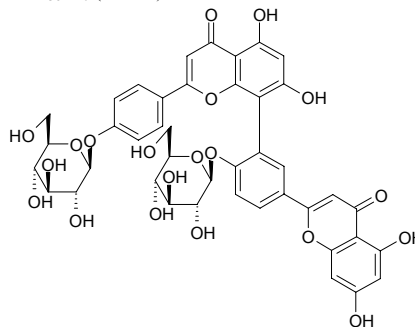
[509-93-3] C₁₅H₁₈O₃ (246.31). mp 146°C, [α]_D²² = -154.50° (c = 2, ethanol). **Pharm:** Antineoplastic (P₃₈₈); molluscicide. **Source:** YAN HAI TUN CAO *Ambrosia maritima*, MEI GUO HAI MO JU *Hymenoclea salsola*. **Ref:** 658, 661.

**1030 Amentoflavone**

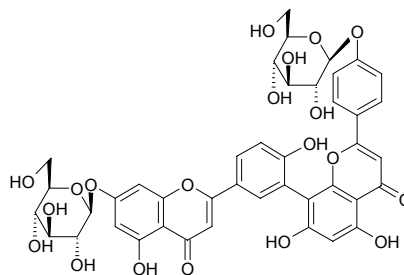
[1617-53-4] C₃₀H₁₈O₁₀ (538.47). Yellow amorphous powder (MeOH), mp 298~300°C, [α]_D^{17.8} = +7.71° (c = 0.23, C₅H₅N). **Pharm:** Antifungal (*Aspergillus fumigatus*, *Botrytis cinerea* and *Trichoderma glaucum*); nucleotide diphosphatase inhibitor; anti-HIV-1 inactive (*in vitro*)^[4234]; tissue proteinase B inhibitor (IC₅₀ = 1.75 μmol/L); cytotoxic (BGC823, IC₅₀ = 3.51 μmol/L); vasorelaxant (via endothelium-dependent nitric oxide-cGMP signaling, with possible involvement of non-specific K⁺ and Ca²⁺ channels)^[5010]. **Source:** BAI GUO *Ginkgo biloba*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], CUI YUN CAO *Selaginella uncinata* (dried whole herb: content = 0.131%^[5508]), DA YE CAI *Selaginella doederleinii* (dried whole herb: mean content = 0.182%^[5508]), DIAN ZHUANG JUAN BAI *Selaginella pulvinata* (dried whole herb: mean content = 0.185%^[5508]), DU SONG SHI *Juniperus rigida*, E MEI JUAN BAI *Selaginella omeiensis* (dried whole herb: content = 0.326%^[5508]), HUI⁽⁴⁾ YE *Sobina chinensis*, HAN SHENG JUAN BAI *Selaginella stauntoniana* (dried whole herb: content = 0.750%^[5508]), JIANG NAN JUAN BAI *Selaginella moellendorffii* (dried whole herb: mean content = 0.963%^[5508]), JUAN BAI *Selaginella tamariscina* (dried whole herb: mean content = 0.439%^[5508]), LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], MAN SHENG JUAN BAI *Selaginella davidii* (dried whole herb: mean content = 1.154%^[5508]), MAO ZHI JUAN BAI *Selaginella braunii* (dried whole herb: mean content = 0.276%^[5508]), MO XI GE LUO YU SHAN *Taxodium mucronatum* (twig and leaf), SAN JIAN SHAN *Cephalotaxus fortunei*, SHAN DI LUO HAN SONG *Podocarpus montanus*, SU TIE SHU GUO *Cycas revoluta*, XI FANG CI BAI *Juniperus occidentalis* (leaf), YAN ZHOU JUAN BAI *Selaginella involvens* (dried whole herb: content = 0.685%^[5508]), YUAN ZHI JUAN BAI *Selaginella sanguinolenta* (dried whole herb: content = 0.678%^[5508]), YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.0076%^[4707]), ZHONG HUA JUAN BAI *Selaginella sinensis* (dried whole herb: content = 1.364%^[5508]). **Ref:** 2, 6, 658, 4234, 4398, 4571, 4707, 5010, 5508.

**1031 Amentoflavone-4',4'''-di-O-β-D-glucopyranoside**

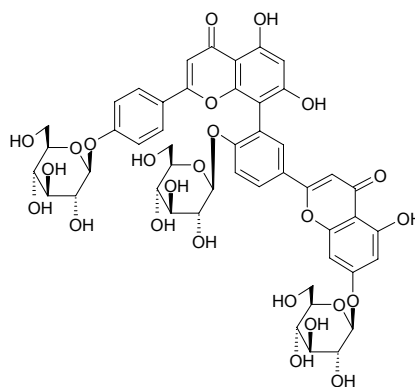
C₄₂H₃₈O₂₀ (862.76). **Source:** SHI SHUA BA *Psilotum nudum*. **Ref:** 660.

**1032 Amentoflavone-7,4'''-di-O-β-D-glucopyranoside**

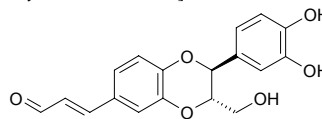
C₄₂H₃₈O₂₀ (862.76). **Source:** SHI SHUA BA *Psilotum nudum*. **Ref:** 660.

**1033 Amentoflavone-7,4',4'''-tri-O-β-D-glucopyranoside**

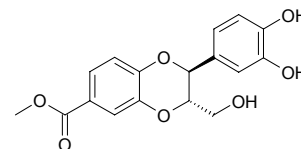
C₄₈H₄₈O₂₅ (1024.90). **Source:** SHI SHUA BA *Psilotum nudum*. **Ref:** 660.

**1034 Americanin A**

C₁₈H₁₆O₆ (328.32). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 660.

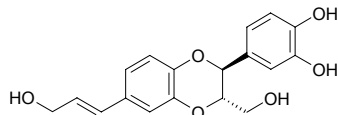
**1035 Americanic acid methyl ester**

C₁₇H₁₆O₇ (332.31). [α]_D²⁰ = 0° (c = 0.31, MeOH). **Pharm:** Neurite outgrowth enhancer (0.01~1.0 μmol/L)^[4407]. **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*] (seed). **Ref:** 4407.

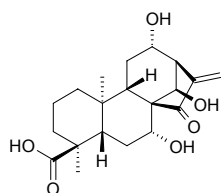


1036 Americanol

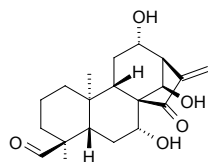
$C_{18}H_{18}O_6$ (330.34). Colorless arris crystals, mp 125–128°C (ethyl acetate–acetone) $[\alpha]_D^{27} = 0^\circ$ ($c = 1.11$, alcohol). **Pharm:** Nourishes nerve, cholinesterase activator (rat cerebrum, EC = 10 μ mol/L). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 1022.

**1037 Amethystoic acid**

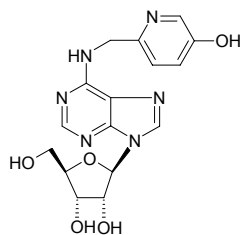
$C_{20}H_{28}O_6$ (364.44). mp > 300°C, $[\alpha]_D^{13} = -86.1^\circ$ ($c = 0.33$, C_5H_5N). **Source:** XIANG CHA CAI *Isodon amethystoides*. **Ref:** 4067.

**1038 Amethystonal**

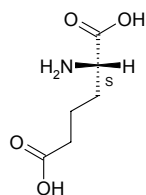
Macrocalyxin C $C_{20}H_{28}O_5$ (348.44). mp 185.6–189°C, $[\alpha]_D^{29} = -75.8^\circ$ ($c = 0.2$, C_5H_5N). **Source:** XIANG CHA CAI *Isodon amethystoides*. **Ref:** 4067.

**1039 AMG-1**

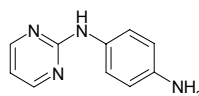
Adenosine, *N*-[(5-hydroxy-2-pyridinyl)methyl] [123369-41-5] $C_{16}H_{18}N_6O_5$ (374.36). Colorless powder. **Pharm:** Antidote; CNS depressant; protects cerebrum (mus); treatment of mental disorder. **Source:** ZHEN MO *Armillariella mellea*. **Ref:** 900.

**1040 α -Aminoadipic acid**

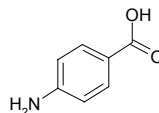
[1118-90-7] $C_6H_{11}NO_4$ (161.16). mp 206°C. **Source:** MO GU *Agaricus campestris*, MU XU GEN *Medicago sativa*. **Ref:** 6.

**1041 2-(4'-Aminobenzenamine)-pyrimidine**

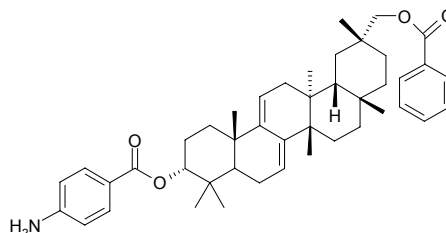
$C_{10}H_{10}N_4$ (186.22). White needles (MeOH), mp 270–271°C. **Pharm:** Adrenergic α_1 -receptor antagonist. **Source:** MA DE LI MIAN ZAO ER *Scilla maderensis* [Syn. *Autonoë madeirensis*]. **Ref:** 5482.

**1042 *p*-Aminobenzoic acid**

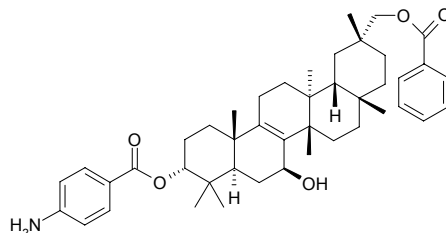
[150-13-0] $C_7H_7NO_2$ (137.14). mp 186–187°C. **Pharm:** Sulfonamide antagonist; ultraviolet screen. **Source:** JI ZI BAI *Gallus gallus domesticus*, JI ZI HUANG *Gallus gallus domesticus*. **Ref:** 6, 658.

**1043****3-*O*-*p*-Aminobenzoyl-29-*O*-benzoylmultiflora-7,9(11)-diene-3 α ,29-diol**

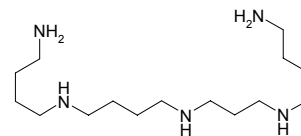
$C_{44}H_{57}NO_4$ (663.95). Powder (Et₂O), mp = 204–206°C, $[\alpha]_D^{25} = -130^\circ$ ($c = 0.90$, CHCl₃). **Source:** XI HU LU *Cucurbita pepo*. **Ref:** 2334.

**1044 3-*O*-*p*-Aminobenzoyl-29-*O*-benzoylmultiflora-8-ene-3 α ,7 β ,29-triol**

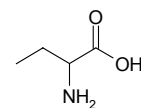
$C_{44}H_{59}NO_5$ (681.96). Powder (Et₂O), mp 158–160°C, $[\alpha]_D^{25} = -52^\circ$ ($c = 0.90$, C_5H_5N). **Source:** XI HU LU *Cucurbita pepo*. **Ref:** 2334.

**1045 Aminobutyl canavalmine**

$C_{15}H_{37}N_5$ (287.50). **Source:** DAO DOU *Canavalia gladiata*. **Ref:** 660.

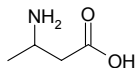
**1046 α -Aminobutyric acid**

$C_4H_9NO_2$ (103.12). mp (+) 292°C (dec), (–) 292°C (dec). **Source:** KU GUA *Momordica charantia*, XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*]. **Ref:** 6.

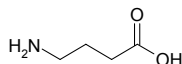


1047 β -Aminobutyric acid

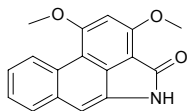
$C_4H_9NO_2$ (103.12). mp 220°C (dec). Source: BAN XIA *Pinellia ternata*, CAO YUAN LAO GUAN CAO *Geranium pratense*. Ref: 6.

**1048 γ -Aminobutyric acid**

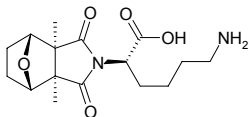
[56-12-2] $C_4H_9NO_2$ (103.12). Pharm: Adrenergic antagonist; neurotransmitter (inhibitory); antihypertensive; diuretic; hypnotic; vasodilator. Source: BAN LAN GEN *Isatis indigotica*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, CHONG BAN XUAN CAO *Hemerocallis fulva* var. *kwanso*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DUO XU YAN HUANG QI *Hedysarum polybotrys*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GAN ZHE *Saccharum sinensis*, GOU QI ZI *Lycium chinense*, GUA LOU *Trichosanthes kirilowii*, JI NAO *Gallus gallus domesticus*, LI ZI *Prunus salicina*, MING DANG SHEN *Changium smyrnioides*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], QIANG HUO *Notopterygium incisum*, SU MI *Setaria italica*, TIAN HUA FEN *Trichosanthes kirilowii*, XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*], *Pisum* sp., *Vicia* sp., *Phaseolus* sp., occurs in many plants. Ref: 2, 4, 506, 658, 660, 5501.

**1049 10-Amino-2,4-dimethoxyphenanthrene-1-carboxylic acid lactam**

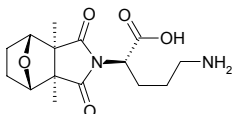
$C_{17}H_{13}NO_3$ (279.30). Yellow acicular crystals (acetone), mp 242–244°C. Source: DA HUA GE NA XIANG *Goniiothalamus griffithii*. Ref: 822.

**1050 (2S)-6-Amino-2-[(3aR*,4S*,7R*,7aS*)-3a,7a-dimethyl-1,3-dioxo-4,7-epoxyoctahydroisoindol-2-yl]-hexanoic Acid**

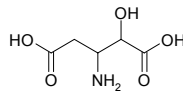
$C_{16}H_{24}N_2O_5$ (234.38). Powder, mp 159.0–162.0°C, $[\alpha]_D = -23.3^\circ$ ($c = 0.30$, MeOH). Source: BAN MAO *Mylabris phalerata*; *Mylabris cichorii*. Ref: 4052.

**1051 (2S)-5-Amino-2-[(3aR*,4S*,7R*,7aS*)-3a,7a-dimethyl-1,3-dioxo-4,7-epoxyoctahydroisoindol-2-yl]-pentanoic acid**

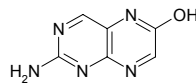
$C_{15}H_{22}N_2O_5$ (310.35). Powder, mp 157.0–160.0°C, $[\alpha]_D = -26.9^\circ$ ($c = 0.26$, MeOH). Source: BAN MAO *Mylabris phalerata*; *Mylabris cichorii*. Ref: 4052.

**1052 3-Amino-2-hydroxy pentanedioic acid**

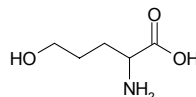
$C_5H_9NO_5$ (163.13). White powder, mp 114–116°C, $[\alpha]_D^{25} = +16.33^\circ$ ($c = 0.049$, water). Source: BAO BAN E GAO *Amanita pantherina*. Ref: 335.

**1053 2-Amino-6-hydroxypteridine**

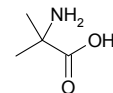
$C_6H_5N_5O$ (163.14). Source: HEI MA YI *Formica fusca*. Ref: 6.

**1054 L- α -Amino- δ -hydroxyvaleric acid**

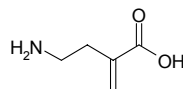
$C_5H_{11}NO_3$ (133.15). mp 223–224°C. Source: DAO DOU *Canavalia gladiata*. Ref: 6.

**1055 Aminoisobutyric acid**

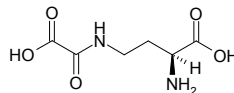
2-Amino-2-methylpropionic acid [62-57-7] $C_4H_9NO_2$ (103.12). mp 280°C (sub). Source: MO GU *Agaricus campestris*. Ref: 6.

**1056 γ -Amino- α -methylene butyric acid**

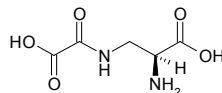
[65370-67-4] $C_5H_9NO_2$ (115.13). Source: LUO HUA SHENG *Arachis hypogaea*. Ref: 6.

**1057 L- α -Amino- γ -oxalylaminobutyric acid**

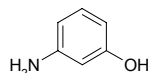
$C_6H_{10}N_2O_5$ (190.16). Pharm: Neurotoxin. Source: SU GEN XIANG WAN DOU *Lathyrus latifolius*, *Acacia* sp. Ref: 658.

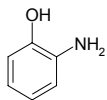
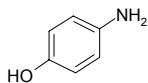
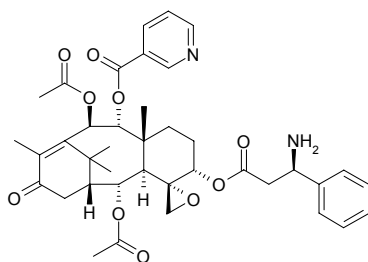
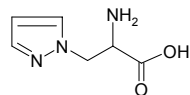
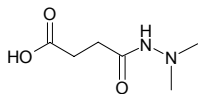
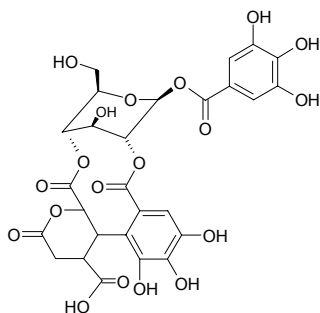
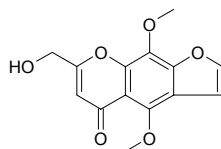
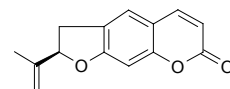
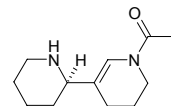
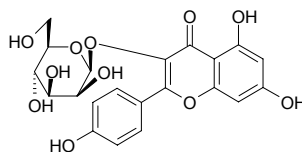
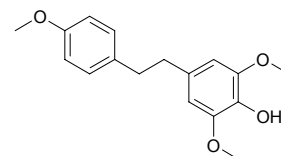
**1058 L- α -Amino- β -oxalylaminopropionic acid**

β -N-Oxalyl-L- α , β -diaminopropionic acid $C_5H_8N_2O_5$ (176.31). Pharm: Neurotoxin; stanch bleeding. Source: CAO XIANG WAN DOU *Lathyrus sativus*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 658, 2790.

**1059 m-Aminophenol**

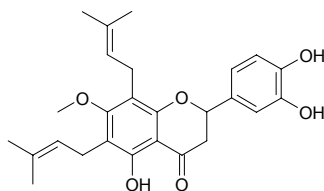
C_6H_7NO (109.13). Source: FU ZI *Aconitum carmichaeli*. Ref: 2.



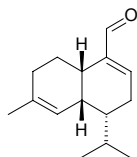
1060 *o*-Aminophenol[95-55-6] C₆H₇NO (109.13). Source: FU ZI *Aconitum carmichaeli*. Ref: 2.**1061 *p*-Aminophenol**C₆H₇NO (109.13). Source: FU ZI *Aconitum carmichaeli*. Ref: 2.**1062 5 α -O-(3'-Amino-3'-phenylpropionyl)nicotaxine**C₃₉H₄₆N₂O₁₀ (702.81). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 262.**1063 α -Amino- β -(pyrazolyl-*N*)propionic acid**C₆H₉N₃O₂ (155.16). mp 236–238°C (dec). Source: XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*], XI GUA ZI REN *Citrullus vulgaris* [Syn. *Citrullus lanatus*]. Ref: 6.**1064 Aminozide**Mono(2,2-dimethylhydrazide) butanedioic acid [1596-84-5] C₆H₁₂N₂O₃ (160.17). Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*]. Ref: 6.**1065 Amlaic acid**C₂₇H₂₄O₁₉ (652.48). mp 206°C. Source: YOU GAN YE *Phyllanthus emblica*. Ref: 6.**1066 Ammiol**[668-10-0] C₁₄H₁₂O₆ (276.25). mp 211°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 6.**1067 Ammirin**C₁₄H₁₂O₃ (228.25). Pharm: Phytogrowth inhibitor (100μg/mL, *Amaranthus hypochondriacus*, InRt = (61.1±1.7)%, *P*<0.05; *E. crusgalli*, InRt = (61.6±1.9)%, *P*<0.05); cytotoxic (*in vitro*, A549, ED₅₀ = 27.5μg/mL, control Adriamycin, ED₅₀ = 0.0322μg/mL; MCF7, ED₅₀ = 46.9μg/mL, Adriamycin, ED₅₀ = 0.0204μg/mL; HT29, ED₅₀ = 34.8μg/mL, Adriamycin, ED₅₀ = 0.0421μg/mL; A498, ED₅₀ = 34.1μg/mL, Adriamycin, ED₅₀ = 0.00348μg/mL; PC3, ED₅₀ = 37.9μg/mL, Adriamycin, ED₅₀ = 0.241μg/mL; PACA-2, ED₅₀ = 37.0μg/mL, Adriamycin, ED₅₀ = 0.0120μg/mL). Source: *Stauranthus perforatus* (root). Ref: 5253.**1068 (+)-Ammodendrine**[27542-15-0] C₁₂H₂₀N₂O (208.31). Pharm: Toxin (insects). Source: MIN HUA I *Sophora franchetiana*. Ref: 658.**1069 Amoenin A₃**Kaempferol 3- β -*D*-mannoside C₂₇H₂₀O₁₁ (448.39). Yellow-white acicular crystals, mp 235–236°C. Source: SHAN YE WAN DOU *Vicia amoena*. Ref: 375.**1070 Amoenylin**C₁₇H₂₀O₄ (288.35). mp 112°C. Source: KE AI SHI HU *Dendrobium amoenum*. Ref: 2397.

1071 Amoradicin

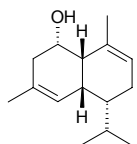
$C_{26}H_{30}O_6$ (438.53). **Pharm:** TNF- α production inhibitor (murine macrophages, LPS-stimulated, IC_{50} = 28.5 μ mol/mL). **Source:** ZI SUI HUAI *Amorpha fruticosa*. **Ref:** 4416.

**1072 Amorpha-4,9-dien-14-al**

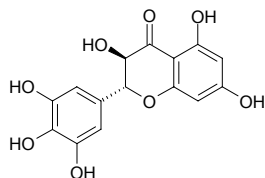
(+)-(4*R*,4*aR*,8*aS*)-3,4,4*a*,7,8,8*a*-Hexahydro-6-methyl-4-(1-methylethyl)-naphthalene-1-carbaldehyde $C_{15}H_{22}O$ (218.34). Colorless oil. **Source:** DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). **Ref:** 5209.

**1073 Amorpha-4,9-dien-2-ol**

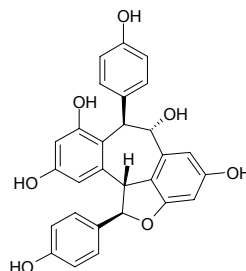
(+)-(1*S*,4*aS*,5*R*,8*aS*)-1,2,4*a*,5,6,8*a*-Hexahydro-3,8-dimethyl-5-(1-methylethyl)-naphthalenol $C_{15}H_{24}O$ (220.36). Colorless oil. **Source:** DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). **Ref:** 5209.

**1074 Ampelopsin**

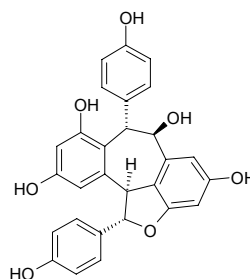
Dihydromyricetin [27200-12-0] $C_{15}H_{12}O_8$ (320.26). White acicular crystals, mp 245~246°C. **Pharm:** Antioxidant. **Source:** BAI LIAN *Ampelopsis japonica* [Syn. *Paullinia japonica*], DA YE SHE PU TAO *Ampelopsis megalophylla* (stem and leaf: mean content = 58.54%^[5508]), RI BEN LIAN XIANG SHU *Cercidiphyllum japonicum*, XIAN CHI SHE PU TAO *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], ZHI JU ZI *Hovenia dulcis*, ZHU SHA DU JUAN *Rhododendron cinnabarinum*, *Pinus* sp., *Cedrus* sp. **Ref:** 6, 391, 466, 605, 658, 5508.

**1075 (+)-Ampelopsin A**

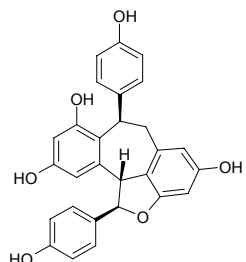
[130608-11-6] $C_{28}H_{22}O_7$ (470.48). **Source:** GUANG YE SHE PU TAO *Ampelopsis brevipedunculata* var. *hancei*. **Ref:** 2233, 2234.

**1076 (-)-Ampelopsin A**

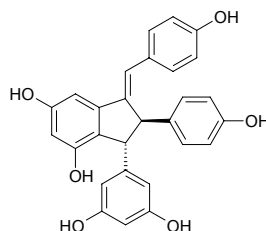
$C_{28}H_{22}O_7$ (470.48). Colorless solid. $[\alpha]_D = -170^\circ$ ($c = 0.09$, MeOH). **Source:** XIAO HUA PO LEI *Hopea parviflora* (bark). **Ref:** 3936.

**1077 Ampelopsin B**

[130518-19-3] $C_{28}H_{22}O_6$ (454.48). **Source:** GUANG YE SHE PU TAO *Ampelopsis brevipedunculata* var. *hancei*. **Ref:** 2233, 2234.

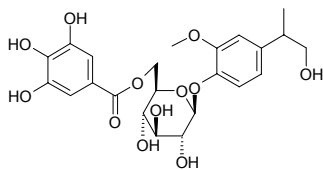
**1078 Ampelopsin D**

[149418-37-1] $C_{28}H_{22}O_6$ (454.48). **Source:** GUANG YE SHE PU TAO *Ampelopsis brevipedunculata* var. *hancei*. **Ref:** 2234.

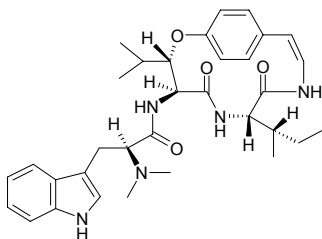


1079 Ampelopsisin

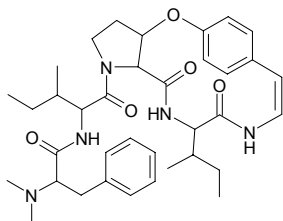
$C_{23}H_{28}O_{12}$ (496.47). White amorphous powder. Source: YU YE SHE PU TAO *Ampelopsis chaffanjonii*. Ref: 434.

**1080 Amphibine A**

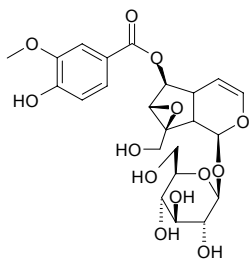
[36535-97-4] $C_{33}H_{43}N_5O_4$ (573.74). Pharm: Antibacterial. Source: SHUI LU ZAO *Ziziphus amphibia*. Ref: 658.

**1081 Amphibine D**

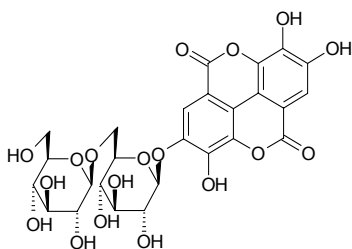
[38496-02-5] $C_{36}H_{49}N_5O_5$ (631.82). Source: MIAN ZAO *Ziziphus mauritiana*. Ref: 6.

**1082 Amphicoside**

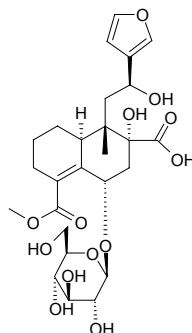
$C_{23}H_{28}O_{13}$ (512.47). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**1083 Amritoside**

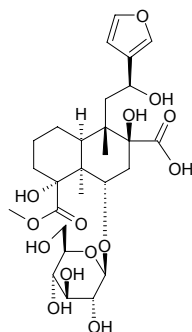
$C_{26}H_{26}O_{18}$ (626.49). mp 248~250°C. Source: FAN SHI LIU PI *Psidium guajava*, FAN SHI LIU YE *Psidium guajava*. Ref: 6.

**1084 Amritoside A**

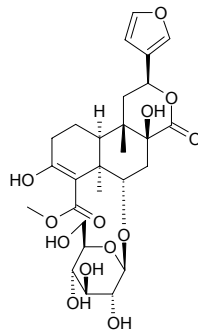
$C_{26}H_{36}O_{13}$ (556.57). Amritoside A pentaacetate: White crystals (MeOH), mp 138~139°C, $[\alpha]_D^{22} = -53.6^\circ$ ($c = 0.110$, $CHCl_3$). Source: XIN XING YE QING NIU DAN *Tinospora cordifolia* (stem). Ref: 3822.

**1085 Amritoside B**

$C_{27}H_{40}O_{14}$ (588.61). Amritoside B pentaacetate: White solid, mp 157~158°C, $[\alpha]_D^{22} = -37.9^\circ$ ($c = 0.131$, $CHCl_3$). Source: XIN XING YE QING NIU DAN *Tinospora cordifolia* (stem). Ref: 3822.

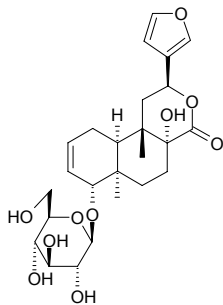
**1086 Amritoside C**

$C_{27}H_{36}O_{13}$ (568.58). Amritoside C pentaacetate: Powder, $[\alpha]_D^{22} = -77.9^\circ$ ($c = 0.101$, $CHCl_3$). Source: XIN XING YE QING NIU DAN *Tinospora cordifolia* (stem). Ref: 3822.

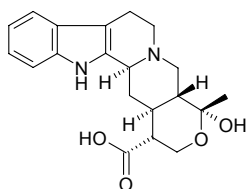


1087 Amritoside D

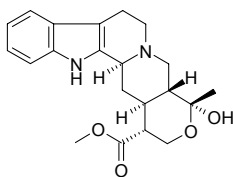
$C_{25}H_{34}O_{10}$ (494.54). Amritoside D pentaacetate: Powder, $[\alpha]_D^{22} = -17.2^\circ$ ($c = 0.120$, $CHCl_3$). Source: XIN XING YE QING NIU DAN *Tinospora cordifolia* (stem). Ref: 3822.

**1088 Amsonic acid**

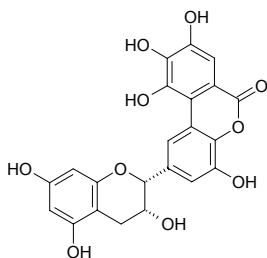
$C_{20}H_{24}N_2O_4$ (356.43). White powder, mp 278~280°C, $[\alpha]_D^{12} = -16.7^\circ$ (MeOH). Source: SHUI GAN CAO *Amsonia sinensis*. Ref: 2092.

**1089 Amsosinine**

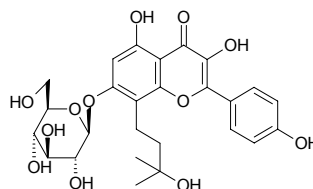
[136092-57-4] $C_{21}H_{26}N_2O_4$ (370.45). Source: SHUI GAN CAO *Amsonia sinensis*. Ref: 2093.

**1090 Amurenisin**

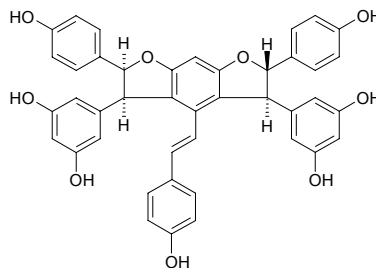
$C_{22}H_{16}O_{10}$ (440.37). White powder, $[\alpha]_D^{22} = -47^\circ$ ($c = 0.03$, MeOH). Source: SHAN PU TAO *Vitis amurensis*. Ref: 772.

**1091 Amurensin**

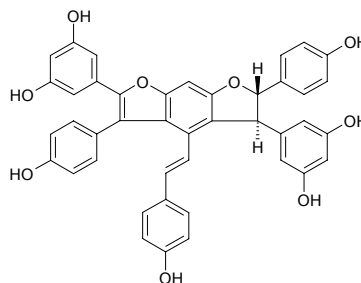
[641-94-1] $C_{26}H_{30}O_{12}$ (534.52). mp 290°C. Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 94.0\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 27.0\mu\text{mol/L}$)^[4502], antioxidant (DPPH scavenger, $IC_{50} = 88.3\mu\text{mol/L}$; control Vitamin E, $IC_{50} = 8.3\mu\text{mol/L}$); tyrosinase inhibitor ($333\mu\text{mol/L}$, InRt = 15.4%; control Kojic acid, $IC_{50} = 125\mu\text{mol/L}$)^[4722]. Source: HUANG BAI *Phellodendron amurense* (in 1935, the compound was isolated from the plant)^[5505], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: 2.57%dw)^[4722]. Ref: 6, 4502, 4722, 5505.

**1092 Amurenisin B**

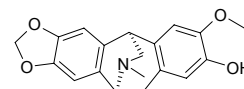
$C_{42}H_{32}O_9$ (680.72). Source: SHAN PU TAO *Vitis amurensis*. Ref: 2233, 2234.

**1093 Amurenisin D**

$C_{42}H_{30}O_9$ (678.70). Source: SHAN PU TAO *Vitis amurensis*. Ref: 2233, 2234.

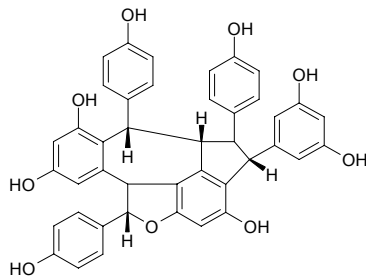
**1094 Amurensine**

[10481-92-2] $C_{19}H_{19}NO_4$ (325.37). Pharm: Analgesic; antitussive (dispels phlegm); sedative. Source: GAO SHAN YING SU *Papaver alpinum*, HEI SHUI YE YING SU *Papaver nudicaule* ssp. *amurense*. Ref: 658.

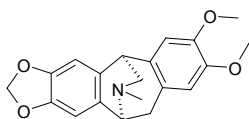


1095 Amurensin G

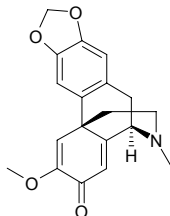
$C_{42}H_{32}O_9$ (680.72). Source: SHAN PU TAO *Vitis amurensis*. Ref: 2233, 2234.

**1096 Amuresinin**

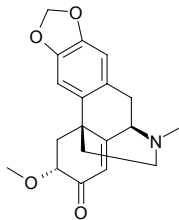
$C_{20}H_{21}NO_4$ (339.39). Source: DUO CI LV RONG HAO *Meconopsis horridula*, LIE YE YE YING SU *Papaver nudicaule* var. *chinense*. Ref: 660.

**1097 Amurine**

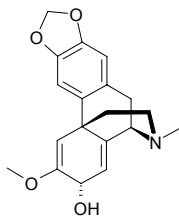
[4984-99-0] $C_{19}H_{19}NO_4$ (325.34). Pharm: Analgesic; antitussive (dispels phlegm); sedative. Source: HEI SHUI YE YING SU *Papaver nudicaule* ssp. *amurense*, JU HUANG YING SU *Papaver auranticum*. Ref: 658.

**1098 Amurinine**

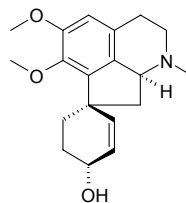
$C_{19}H_{21}NO_4$ (327.38). Source: YE YING SU *Papaver nudicaule*. Ref: 660.

**1099 Amurinol I**

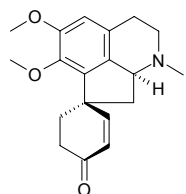
Nudaurine $C_{19}H_{21}NO_4$ (327.38). Source: YE YING SU *Papaver nudicaule*. Ref: 660.

**1100 Amuroline**

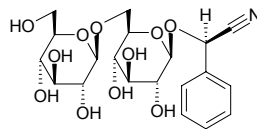
$C_{19}H_{25}NO_3$ (315.42). Source: HEI SHUI YE YING SU *Papaver nudicaule* ssp. *amurense*, LIE YE YE YING SU *Papaver nudicaule* var. *chinense*. Ref: 660.

**1101 Amuronine**

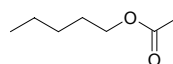
$C_{19}H_{23}NO_3$ (313.40). Source: HEI SHUI YE YING SU *Papaver nudicaule* ssp. *amurense*. Ref: 660.

**1102 Amygdalin**

[29883-15-6] $C_{20}H_{27}NO_{11}$ (457.44). Colorless crystals, mp 223~226°C, $[\alpha]_D^{20} = -41.96^\circ$, easily soluble in boiling water, slightly soluble in EtOH, almost insoluble in ether.^[5507] Pharm: MLD (hmn) = 0.5~3.5mg/kg. Source: BA DAN XING REN *Prunus amygdalus*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], FU LANG HUA *Gerbera jamesonii*, LI HE REN *Prunus salicina*, LI ZI *Prunus salicina*, MEI HE REN *Prunus mume*, PI PA *Eriobotrya japonica*, PI PA HE *Eriobotrya japonica*, PI PA YE *Eriobotrya japonica*, SHAN XING REN *Prunus armeniaca* var. *ansu* ($\approx 2\%$ ^[5507]), SHAN XING REN *Prunus armeniaca* var. *ansu* (dried ripe seed: content = 5.02%^[5508]), SHAN ZHA *Crataegus pinnatifida*, TAO *Prunus persica*, TAO REN *Prunus persica* (dried ripe seed: content scope = 2.24%~3.68%, mean content = 3.84%^[5508]), TIAN SHAN HUA QIU *Sorbus tianschanica*, WEN PO *Cydonia oblonga*, WU MEI *Prunus mume*, XING REN *Prunus armeniaca* (content scope = 3.19%~5.50%^[5501]), XING REN *Prunus armeniaca* (dried ripe seed: mean content of 2 origins = 5.51%^[5508]), YING GUO SHAN ZHA *Crataegus oxyacantha*, YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*]. Ref: 2, 4, 530, 658, 660, 5501, 5507, 5508.

**1103 Amyl acetate**

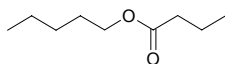
Pentyl ethanoate [628-63-7] $C_7H_{14}O_2$ (130.19). bp 148°C/737mmHg. Source: JIU Liquor. Ref: 6.



1104 Amyl butyrate

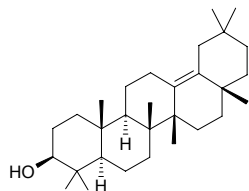
Pentyl butanoate [540-18-1] C₉H₁₈O₂ (158.24). bp 185°C. Source: JIU Liquor.

Ref: 6.

**1105 δ-Amyrenol**

C₃₀H₅₀O (426.73). mp 212.0~213.5°C. Source: XIAO JIAN CAO *Sedum*

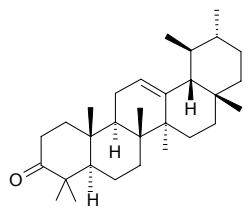
bulbiferum. Ref: 6.

**1106 α-Amyrenone**

[638-96-0] C₃₀H₄₈O (424.72). Colorless acicular crystals

(chloroform-methanol), mp 119~121°C. Source: QIU HUA NIU NAI CAI

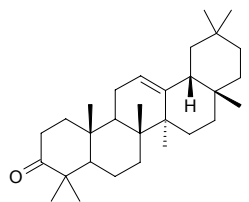
Marsdenia globifera. Ref: 464.

**1107 β-Amyrenone**

C₃₀H₄₈O (424.72). Pharm: DPPH scavenger inactive (for 40μmol/L DPPH radical, SC₅₀ > 40μmol/L)^[4378]; cytotoxic inactive (A2780 ovarian cancer cell line, IC₅₀ = 26.8mg/mL)^[5379]. Source: MU SHU DI SHANG BU FEN

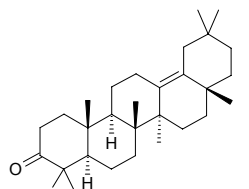
Manihot esculenta, SUO LA MU *Salacia prinooides* [Syn. *Salacia chinensis*]

(stem). Ref: 4378, 5379.

**1108 δ-Amyrenone**

δ-Amyrone [20248-08-2] C₃₀H₄₈O (424.72). mp 198~201°C. Source: XIAO

JIAN CAO *Sedum bulbiferum*. Ref: 6.

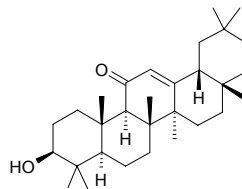
**1109 β-Amyrenonol**

11-Oxo-3β-hydroxy-olean-12-ene C₃₀H₄₈O₂ (440.72). Grained crystals

(EtOAc), easily soluble in CHCl₃, MeOH, mp 188~190°C; mp 229~230°C.

Source: SHAN REN YE *Rhodomyrtus tomentosa*, SI CHUAN QING FENG

TENG *Sabia schumanniana* (aerial parts). Ref: 6, 4883.

**1110 α-Amyrin**

Urs-12-en-3β-ol [638-95-9] C₃₀H₅₀O (426.73). White acicular crystals

(chloroform-methanol), mp 180~186°C. Pharm: 15-Lipoxygenase inhibitor

(IC₅₀ = (15±3)μmol/L)^[4953]. Source: AI YE *Artemisia argyi*, CHI YANG

Alnus japonica, DA JI⁽⁴⁾ *Cirsium japonicum*, HUANG LONG DAN *Gentiana*

lutea (rhizome and root), HUI BAO HAO *Artemisia roxbugiana*, JU QU

Cichorium intybus, LUO DI SHENG GEN *Bryophyllum pinnatum*, MA QIAN

ZI *Strychnos nux-vomica*, MAO LIAN HAO *Artemisia vestita*, MI DIE

XIANG *Rosmarinus officinalis*, PAI QIAN CAO GEN *Desmodium*

pulchellum [Syn. *Phylloidium pulchellum*], QING GUO *Canarium album*,

QIU HUA NIU NAI CAI *Marsdenia globifera*, SAI ER WEI YA SHI CAO

Achillea alexandri-regis, SHAN LI HONG *Crataegus pinnatifida* var. *major*,

XI CHANG NAN MEI DOU *Anadenanthera colubrine* (aerial parts), XIANG

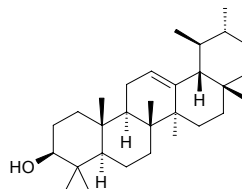
JIA PI *Periploca sepium*, XIANG PI MU *Alstonia scholaris*, XIAO QIAO

MU ZI JIN NIU *Ardisia arborescens* (whole herb)^[4769], XIN JIANG LAN CI

TOU *Echinops ritro*, YANG MEI *Myrica rubra*, ZAN BI XI BA DOU *Croton*

zambesicus (leaf), occurs in many plants. Ref: 6, 464, 474, 503, 620, 660,

2545, 3807, 4307, 4769, 4953.

**1111 α-Amyrin acetate**

C₃₂H₅₂O₂ (468.77). White scale crystals (chloroform-methanol), mp

220~226°C. Source: AI YE *Artemisia argyi*, CHANG CHUN HUA

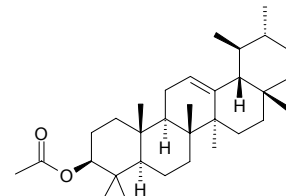
Catharanthus roseus [Syn. *Vinca rosea*; *Lochera rosea*], HUI BAO HAO

Artemisia roxbugiana, LU ZHU GEN *Arundo donax*, QIU HUA NIU NAI

CAI *Marsdenia globifera*, WU MU XIE *Diospyros ebenum*, XIANG JIA PI

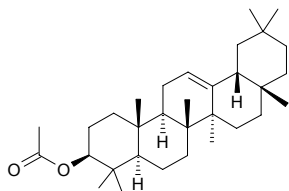
Periploca sepium, XIANG PI MU *Alstonia scholaris*, XIN JIANG LAN CI

TOU *Echinops ritro*. Ref: 6, 503, 660.

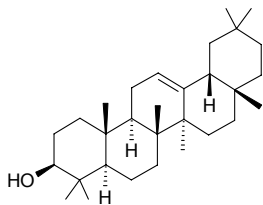


1112 β -Amyrin acetate

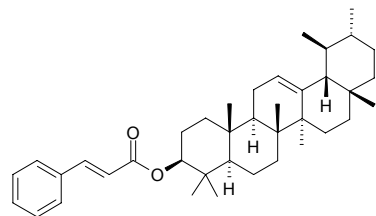
$C_{32}H_{52}O_2$ (468.77). mp 236°C. Source: BI LI *Ficus pumila*, DA JI⁽⁴⁾ *Cirsium japonicum*, DI SHAO GUA *Cynanchum thesioides*, FU LING *Poria cocos*, HUI BAO HAO *Artemisia roxburgiana*, LU ZHU GEN *Arundo donax*, WU TONG YE, *Firmiana simplex*, XIANG JIA PI *Periploca sepium*. Ref: 6, 236, 503, 536.

**1113 β -Amyrin**

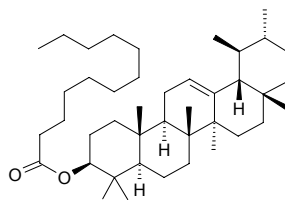
[559-70-6] $C_{30}H_{50}O$ (426.73). mp 197.0~197.5°C. Pharm: DPPH scavenger inactive (for 40 μ mol/L DPPH radical, $SC_{50} > 40\mu$ mol/L)^[4378]; cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 21.6\text{mg/mL}$)^[5379]. Source: CHI YANG *Alnus japonica*, CU LIU GUO *Hippophae rhamnoides*, DA FEI YANG CAO *Euphorbia hirta*, DA JI⁽⁴⁾ *Cirsium japonicum*, DA YE DONG QING *Ilex latifolia*, DUO SUI SHI KE YE *Lithocarpus polystachyus*, GE XUN *Balanophora japonica*, GOU QI ZI *Lycium chinense*, HUANG LONG DAN *Gentiana lutea* (rhizome and root), HUO YANG LE *Euphorbia antiqorum*, JIU BI YING *Ilex rotunda*, LONG XU CAO *Poa sphondylodes*, LUO DI SHENG GEN *Bryophyllum pinnatum*, MAO YE BA DOU *Croton caudatus* var. *tomentosus*, MI DIE XIANG *Rosmarinus officinalis*, MU SHU DI SHANG BU FEN *Manihot esculenta*, QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*], SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], SHAN REN YE *Rhodomyrtus tomentosa*, SHAN WO JU *Lactuca indica*, SHE PU TAO *Ampelopsis brevipedunculata*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), TAI WAN XIU XIAN JU *Spiraea formosana*, WU HUA GUO YE *Ficus carica*, WU TONG YE, *Firmiana simplex*, XI YE DA JI *Euphorbia esula* var. *cyparissoides*, XIANG JIA PI *Periploca sepium*, XIANG SI ZI *Abrus precatorius*, YANG MEI *Myrica rubra*, YAO YONG PU GONG YING *Taraxacum officinale*, occurs in many plants. Ref: 2, 6, 408, 552, 660, 2545, 2575, 4307, 4378, 5379.

**1114 α -Amyrin cinnamate**

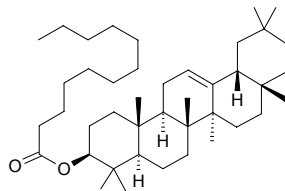
$C_{39}H_{56}O_2$ (556.88). Crystals, mp 97~100°C. Source: SU KU BA DOU HUA *Himatanthus succuba*. Ref: 4143.

**1115 α -Amyrin laurate**

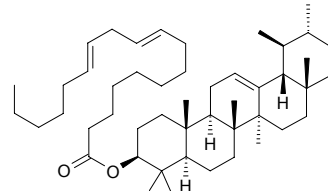
$C_{42}H_{72}O_2$ (609.04). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

**1116 β -Amyrin laurate**

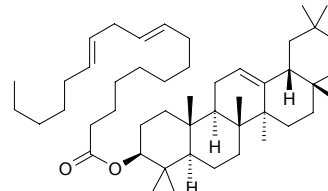
$C_{42}H_{72}O_2$ (609.04). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

**1117 α -Amyrin linoleate**

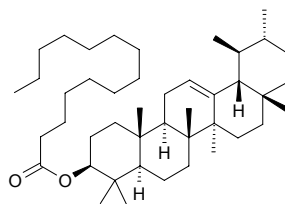
$C_{48}H_{80}O_2$ (689.17). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

**1118 β -Amyrin linoleate**

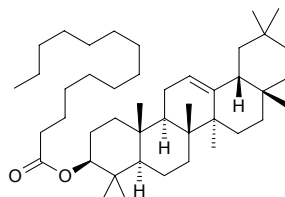
$C_{48}H_{80}O_2$ (689.17). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

**1119 α -Amyrin myristate**

$C_{44}H_{76}O_2$ (637.10). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

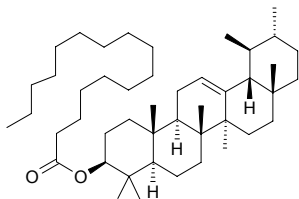
**1120 β -Amyrin myristate**

$C_{44}H_{76}O_2$ (637.10). Source: TIAN WEN CAO *Spilanthes acmella*. Ref: 6.

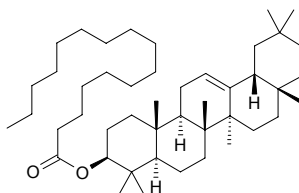


1121 α -Amyrin palmitate

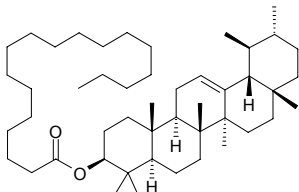
[22255-10-3] C₄₆H₈₀O₂ (665.15). White lamellar crystals (acetone-methanol), mp 114~116°C. Source: MENG GU SHAN LUO BO *Scabiosa comosa*, QIU HUA NIU NAI CAI *Marsdenia globifera*, TIAN WEN CAO *Spilanthes acmella*. Ref: 6, 464.

**1122 β -Amyrin palmitate**

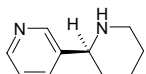
Balanophorin A C₄₆H₈₀O₂ (665.15). White amorphous powder (acetone), mp 77°C, soluble in chloroform and benzene. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], TIAN WEN CAO *Spilanthes acmella*, YIN DU SHE GU *Balanophora indica* [Syn. *Langodorfia indica*]. Ref: 2, 6, 423, 660.

**1123 α -Amyrin stearate**

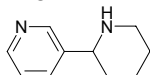
C₄₈H₈₄O₂ (693.20). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 2.

**1124 Anabasine**

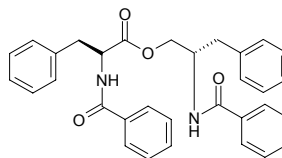
Neonicotine; 3-(2-Piperidinyl)pyridine [494-52-0] C₁₀H₁₄N₂ (162.24). bp (-) 276°C; soluble in water and most of organic solvents^[5507]. Pharm: Insecticidal; respiratory stimulant. Source: BAI RI CAO *Zinnia elegans*, GUA MU *Alangium platanifolium*, JIAN XING YAN CAO *Nicotiana acuminata*, MAO BA JIAO FENG *Alangium kurzii*, WU YE JIA MU ZEII *Anabasis aphylla*, YAN CAO *Nicotiana tabacum*. Ref: 6, 658, 5507.

**1125 (\pm)-Anabasine**

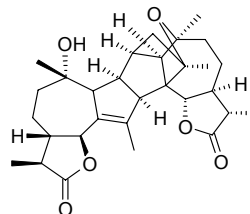
[13078-04-1] C₁₀H₁₄N₂ (162.24). Alkaline colorless crystals liquid, slightly pungent, easy dissolved in water and common organic solvent, can be distilled with vapor, bp 110°C/1mmHg, [α]_D²⁰ = 0°. Pharm: Muscle relaxant; neuromuscular blocker (effective component in *Alangium chinense* BA JIAO FENG); pesticide; toxin (acute or inferior acute). Source: BA JIAO FENG *Alangium chinense*, YAN CAO *Nicotiana tabacum*. Ref: 658, 661.

**1126 Anabellamide**

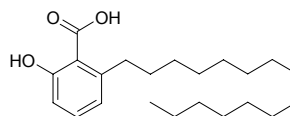
C₃₂H₃₀N₂O₄ (506.61). Source: LIU JI NU *Artemisia anomala*. Ref: 660.

**1127 Anabsinthin**

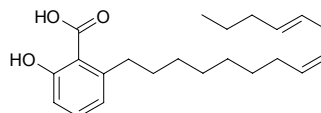
C₃₀H₄₀O₆ (496.65). mp 267°C, [α]_D = +113° (c = 0.10, CHCl₃). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2302.

**1128 Anacardic acid A**

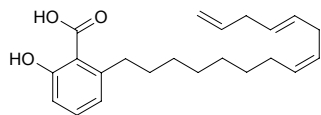
Hydroginkgolic acid [16611-84-0] C₂₂H₃₆O₃ (348.53). mp 92.5~93°C. Pharm: Antineoplastic. Source: BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba*, DU XIAN ZI *Anacardium occidentale*. Ref: 2, 6, 658, 660.

**1129 Anacardic acid C**

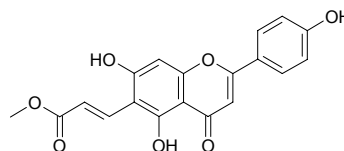
C₂₂H₃₂O₃ (344.50). Source: BAI GUO *Ginkgo biloba*. Ref: 2.

**1130 Anacardic acid D**

C₂₂H₃₀O₃ (342.48). Source: BAI GUO *Ginkgo biloba*. Ref: 2.

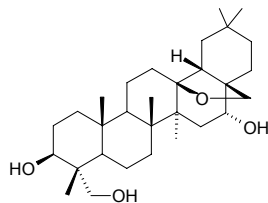
**1131 Anadanthoflavone**

C₁₉H₁₄O₇ (354.32). Yellow powder, mp 290°C (dec). Pharm: 12-Lipoxygenase inhibitor (hmn platelet, IC₅₀ = (13±3)μmol/L); 15-lipoxygenase inhibitor (hmn reticulocyte, IC₅₀ = (17±3)μmol/L). Source: XI CHANG NAN MEI DOU *Anadenanthera colubrina* (aerial parts). Ref: 4953.

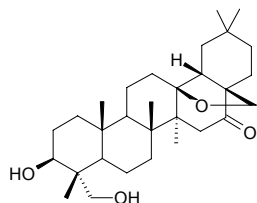


1132 Anagalligenin B

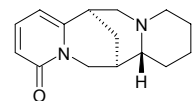
$C_{30}H_{50}O_4$ (474.73). Source: LIU LI FAN LV *Anagallis arvensis*. Ref: 660.

**1133 Anagalligenone B**

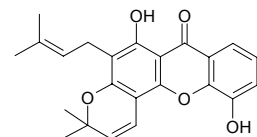
$C_{30}H_{48}O_4$ (472.71). Source: LIU LI FAN LV *Anagallis arvensis*. Ref: 660.

**1134 Anagryrine**

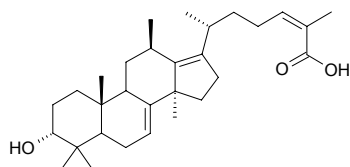
[486-89-5] $C_{15}H_{20}N_2O$ (244.34). bp (-) 210–215°C/4mmHg. Pharm: Causes tachycardia; ganglionic blocker; CNS stimulant (reflective); teratogen; supertoxic agent. Source: CHOU WEI HONG DOU *Anagryis foetida*, DU DOU *Laburnum anagyroides*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], MU MA DOU *Thermopsis lanceolata*. Ref: 6, 658.

**1135 Ananixanthone**

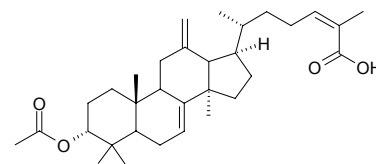
1-Deoxymorusignin J $C_{23}H_{22}O_5$ (378.43). Pharm: Antibacterial (MRSA, MIC = 32µg/mL; control Vancomycin, MIC = 2µg/mL)^[4735]. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0002%dw)^[4735], KA MAI LONG XIN FO NI A *Symphonia globulifera*. Ref: 1521, 4735.

**1136 Ananolic acid A**

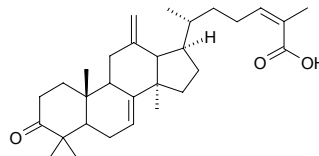
18-(13→12β)-Abeo-lanostene triterpenoid acid $C_{30}H_{46}O_3$ (454.70). Colorless crystals, mp 132–134°C, $[\alpha]_D = -67.7^\circ$ ($c = 0.65$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, murine leukemia ATCC: CCRF-CEM, $IC_{50} = 45.4\mu g/mL$; HeLa ATCC-17 cells, $IC_{50} = 0.46\mu g/mL$)^[4749]. Source: BO LUO XIANG TENG *Kadsura ananosma*, BO LUO XIANG TENG *Kadsura ananosma* (stem bark). Ref: 4749, 5242.

**1137 Ananolic acid B**

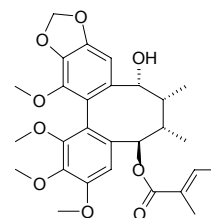
$C_{32}H_{48}O_4$ (496.74). Amorphous powder, $[\alpha]_D = -55.0^\circ$ ($c = 0.10$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, murine leukemia ATCC: CCRF-CEM, $IC_{50} = 49.6\mu g/mL$; HeLa ATCC-17 cells, $IC_{50} = 0.54\mu g/mL$). Source: BO LUO XIANG TENG *Kadsura ananosma* (stem: yield = 0.0029%dw). Ref: 4749.

**1138 Ananolic acid C**

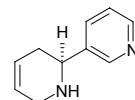
$C_{30}H_{44}O_3$ (452.68). Amorphous powder, $[\alpha]_D = -62.0^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, murine leukemia ATCC: CCRF-CEM, $IC_{50} = 45.2\mu g/mL$; HeLa ATCC-17 cells, $IC_{50} = 0.48\mu g/mL$). Source: BO LUO XIANG TENG *Kadsura ananosma* (stem: yield = 0.0013%dw). Ref: 4749.

**1139 Ananosin A**

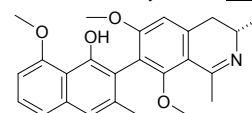
Dibenzocyclooctadiene lignan $C_{28}H_{34}O_9$ (514.58). Colorless crystals, mp 132–134°C, $[\alpha]_D = -16.5^\circ$ ($c = 0.59$, $CHCl_3$). Source: BO LUO XIANG TENG *Kadsura ananosma* (stem bark). Ref: 5242.

**1140 Anatabine**

[581-49-7] $C_{10}H_{12}N_2$ (160.22). bp (-) 145–146°C/10mmHg. Source: YAN CAO *Nicotiana tabacum*. Ref: 6.

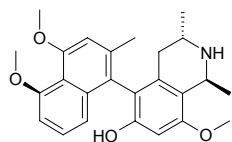
**1141 Ancistrocladidine**

$C_{25}H_{27}NO_4$ (405.50). Amorphous solid, $[\alpha]_D^{25} = -122.3^\circ$ ($c = 0.05$, MeOH); $[\alpha]_D^{25} = -129.7^\circ$ ($c = 0.06$, $CHCl_3$). Pharm: Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 0.3\mu g/mL$, control Chloroquine, $IC_{50} = 0.041\mu g/mL$); antileishmanial (*Leishmania donovani*, $IC_{50} = 2.9\mu g/mL$; control Miltefosine, $IC_{50} = 0.31\mu g/mL$); antitrypanosomal (Chagas' disease, *Trypanosoma cruzi*, $IC_{50} = 23.4\mu g/mL$, control Benznidazole, $IC_{50} = 0.53\mu g/mL$; African sleeping sickness, *Trypanosoma brucei rhodesiense*, $IC_{50} = 2\mu g/mL$, control Melarsoprol, $IC_{50} = 0.00046\mu g/mL$). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

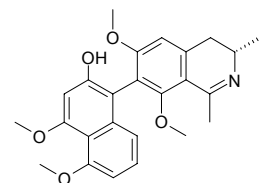


1142 Ancistrocladine

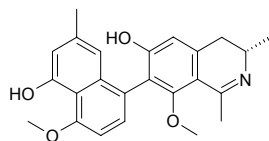
$C_{25}H_{29}NO_4$ (407.51). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

**1143 Ancistrocladisine**

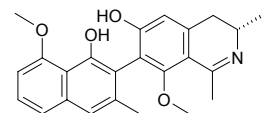
$C_{25}H_{27}NO_5$ (421.50). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

**1144 Ancistroheynine A**

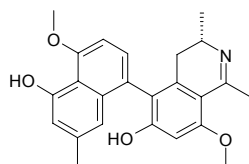
$C_{24}H_{25}NO_4$ (391.47). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

**1145 Ancistroheynine B**

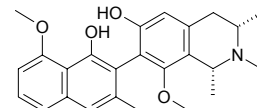
$C_{24}H_{25}NO_4$ (391.47). Yellow oil, $[\alpha]_D^{25} = -194.9^\circ$ ($c = 0.025$, MeOH). Pharm: Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 0.5\mu\text{g/mL}$, control Chloroquine, $IC_{50} = 0.041\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 22.3\mu\text{g/mL}$; control Miltefosine, $IC_{50} = 0.31\mu\text{g/mL}$); antitrypanosomal (Chagas' disease, *Trypanosoma cruzi*, $IC_{50} = 47.5\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.53\mu\text{g/mL}$); African sleeping sickness, *Trypanosoma brucei rhodesiense*, $IC_{50} = 2.9\mu\text{g/mL}$, Melarsoprol, $IC_{50} = 0.00046\mu\text{g/mL}$). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

**1146 Ancistrollokine D**

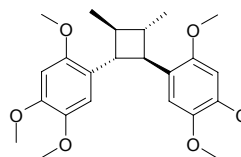
$C_{24}H_{25}NO_4$ (391.47). Colorless solid, mp 122~124° $[\alpha]_D^{25} = +191.6^\circ$ ($c = 0.15$, $CHCl_3$). Pharm: Antileishmanial (*Leishmania donovani*); antitrypanosomal (*Trypanosoma cruzi*, and *Trypanosoma brucei rhodesiense*). Source: ZHONG FEI GOU ZHI TENG *Ancistrocladus likoko*. Ref: 2024.

**1147 Ancistrotanzanine C**

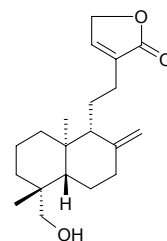
$C_{25}H_{29}NO_4$ (407.51). Yellow oil, $[\alpha]_D^{25} = -76.0^\circ$ ($c = 0.01$, $CHCl_3$); $[\alpha]_D^{25} = -75.5^\circ$ ($c = 0.01$, $CHCl_3$). Pharm: Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 0.1\mu\text{g/mL}$, control Chloroquine, $IC_{50} = 0.041\mu\text{g/mL}$); antitrypanosomal (Chagas' disease, *Trypanosoma cruzi*, $IC_{50} = 14\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.53\mu\text{g/mL}$); African sleeping sickness, *Trypanosoma brucei rhodesiense*, $IC_{50} = 1.3\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00046\mu\text{g/mL}$). Source: HAI NI GOU ZHI TENG *Ancistrocladus heyneanus*. Ref: 3872.

**1148 Andamanicin**

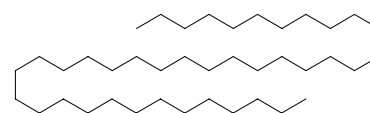
[130323-08-9] $C_{24}H_{32}O_6$ (416.52). Source: SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*]. Ref: 740.

**1149 Andrograpanin**

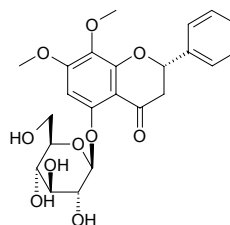
$C_{20}H_{30}O_3$ (318.46). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 660.

**1150 Andrographan**

$C_{40}H_{82}$ (563.10). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

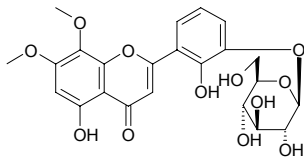
**1151 Andrographidine A**

[113963-37-4] $C_{23}H_{26}O_{10}$ (462.46). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

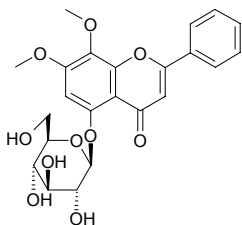


1152 Andrographidine B

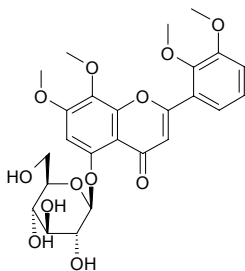
[113963-38-5] C₂₃H₂₄O₁₂ (492.44). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

**1153 Andrographidine C**

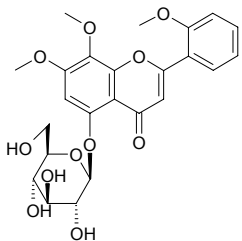
[113963-39-6] C₂₃H₂₄O₁₀ (460.44). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

**1154 Andrographidine D**

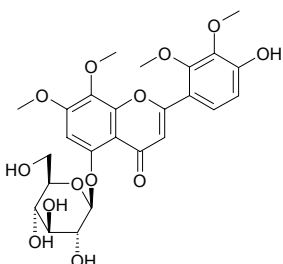
[113963-40-9] C₂₅H₂₈O₁₂ (520.49). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

**1155 Andrographidine E**

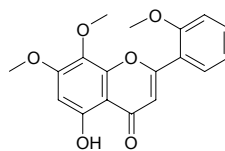
[113963-41-0] C₂₄H₂₆O₁₁ (490.47). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

**1156 Andrographidine F**

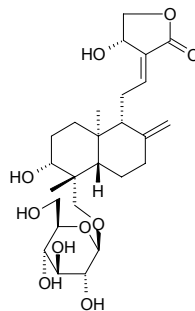
C₂₅H₂₈O₁₃ (536.49). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 660.

**1157 Andrographin**

[1165-40-8] C₁₈H₁₆O₆ (328.22). mp 190~191°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

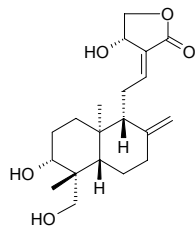
**1158 Andrographoside**

Andrographoside [82209-76-5] C₂₆H₄₀O₁₀ (512.60). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 660, 1521.

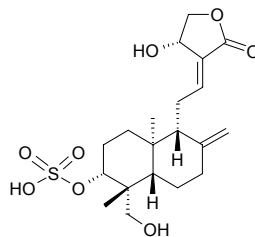
**1159 Andrographolide**

[5508-58-7] C₂₀H₃₀O₅ (350.46). mp 230~231°C, [α]_D¹⁷ = -126.6° (ice vinegar), slightly soluble in water, soluble in ethanol, chloroform, acetone, ether.^[5507]

Pharm: Antibacterial; treatment of bacillary dysentery and inflammation of upper-respiratory tract, anti-inflammatory (NO production inhibitor)^[4415]. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (dried aerial parts: content = 1.5%^[5508], in 1971 isolated from the plant by H.W.Fehlhaber^[5505]). Ref: 4, 658, 1521, 4415, 5501, 5505, 5507, 5508.

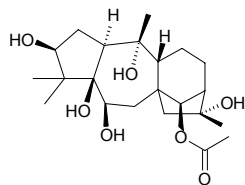
**1160 Andrographolide-3-O-sulfate**

C₂₀H₃₀O₈S (430.52). White amorphous powder. Source: REN NIAO *Homo sapiens*. Ref: 4300.

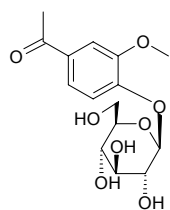


1161 Andromedotoxin

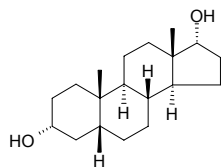
[4720-09-6] $C_{22}H_{36}O_7$ (412.53). mp 267~270°C. **Pharm:** Cytotoxic (mus *in vitro*, $ED_{50} = 60\mu\text{g/mL}$); LD_{50} (mus, ip) = 1.31mg/kg. **Source:** DU JUAN HUA *Rhododendron simsii*, DU JUAN HUA YE *Rhododendron simsii*, LONG SHU DU JUAN *Rhododendron przewalskii* (leaf: content = 0.10%^[5508]), MAN SHAN HONG *Rhododendron dauricum*, MEI TE NI DU JUAN HUA *Rhododendron metternichii* var. *hondoese*, NAO YANG HUA *Rhododendron molle*, ZHAO SHAN BAI *Rhododendron micranthum*. **Ref:** 4, 6, 658, 5508.

**1162 Androsin**

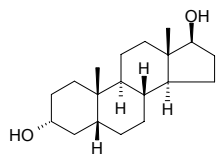
[531-28-2] $C_{15}H_{20}O_8$ (328.32). White acicular crystals (hot water), mp 226°C, $[\alpha]_D = -47.1^\circ$ ($c = 0.01$, water). **Pharm:** Antihepatotoxin (rat, liver damage caused by CCl_4 or GalN); antiasthmatic (gpg, bronchus contraction caused by ovalbumin and PAF); 11- β -hydroxylase inhibitor; antioxidant inactive (hydroxyl radical scavenger, $IC_{50} > 400\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} > 400\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$)^[4289]. **Source:** FAN QIE *Lycopersicon esculentum*, HU HUANG LIAN *Picrorhiza kurrooa*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora*. **Ref:** 900, 4289.

**1163 5 β -Androstan-3 α ,17 α -diol**

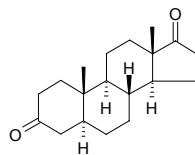
3 α ,17 α -Dihydroxy-5 β -androstan-3 α ,17 α -diol [5856-10-0] $C_{19}H_{32}O_2$ (292.47). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**1164 5 β -Androstan-3 α ,17 β -diol**

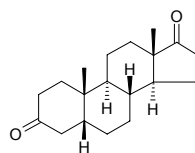
3 α ,17 β -Dihydroxy-5 β -androstan-3 α ,17 β -diol [1851-23-6] $C_{19}H_{32}O_2$ (292.47). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2, 660.

**1165 5 α -Androstan-3,17-dione**

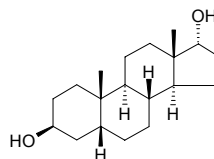
[846-46-8] $C_{19}H_{28}O_2$ (288.43). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**1166 5 β -Androstan-3,17-dione**

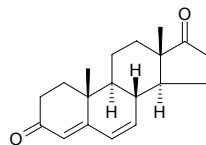
[1229-12-5] $C_{19}H_{28}O_2$ (288.43). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**1167 5 α -Androstane-3 β ,17 α -diol**

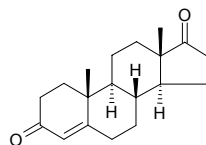
3 β ,17 α -Dihydroxy-5 α -androstan-3 β ,17 α -diol $C_{19}H_{32}O_2$ (292.47). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2, 660.

**1168 Androst-4,6-diene-3,17-dione**

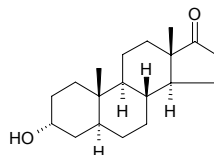
[633-34-1] $C_{19}H_{24}O_2$ (284.40). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**1169 Androst-4-ene-3,17-dione**

[63-05-8] $C_{19}H_{26}O_2$ (286.42). **Pharm:** Androgen (similar action with androgen). **Source:** OU ZHOU CHI SONG *Pinus sylvestris*, SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2, 658.

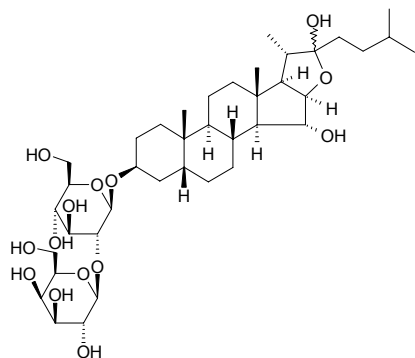
**1170 Androsterone**

3-Epihydroxyetioallocholan-17-one [53-41-8] $C_{19}H_{30}O_2$ (290.45). mp 178°C. **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, ZI HE CHE *Homo sapiens*. **Ref:** 2, 6.

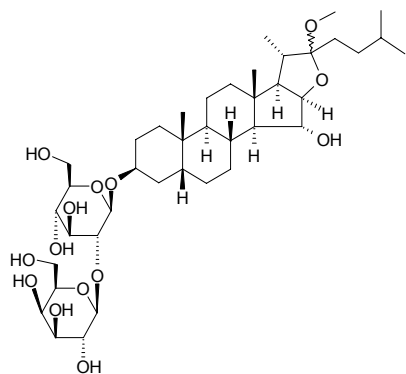


1171 Anemarrhenasaponin I

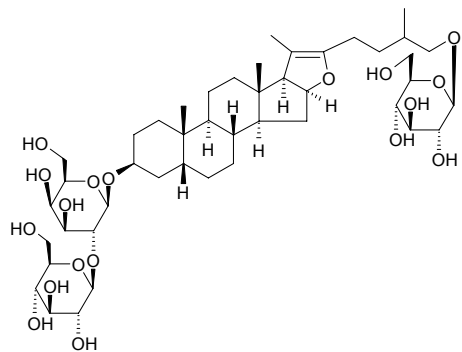
$C_{39}H_{66}O_{14}$ (758.95). White powder. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 443.

**1172 Anemarrhenasaponin Ia**

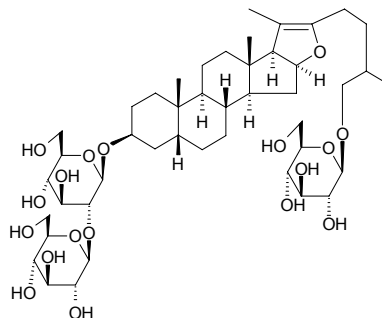
$C_{40}H_{68}O_{14}$ (772.98). White powder. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 443.

**1173 Anemarsaponin B**

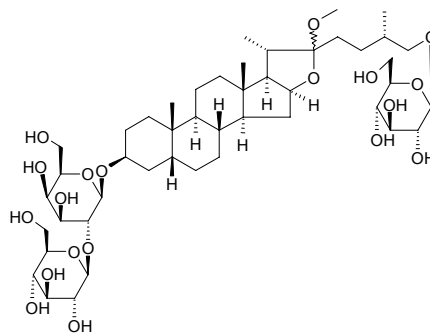
Pseudoprotimosaponin AIII [139051-27-7] $C_{45}H_{74}O_{18}$ (903.08). White thin acicular crystals, mp 226°C (dec). Pharm: Platelet aggregation inhibitor (rbt, *in vitro*, induced by PAF, $IC_{50} = 25\mu\text{mol/L}$). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 213, 2990.

**1174 Anemarsaponin C**

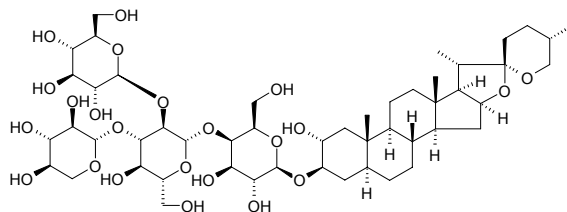
(2S)-O-β-D-Glucopyranosyl-5β-furost-20(22)-ene-3β,26-diol-3-O-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside $C_{45}H_{74}O_{18}$ (903.08). White amorphous powder, mp >212°C (dec). Pharm: Free radical scavenger. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 353, 658.

**1175 Anemarsaponin E**

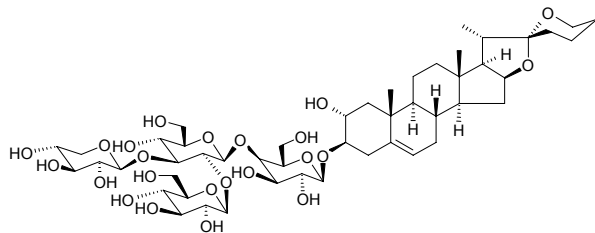
Timosaponin B₁ [136565-73-6] $C_{46}H_{78}O_{19}$ (935.11). White amorphous powder, mp 244°C; 240~242°C (dec). Pharm: Free radical scavenger. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 353, 1075.

**1176 Anemarsaponin F**

Timosaponin F [195304-79-1] $C_{50}H_{82}O_{23}$ (1050.2). White amorphous powder, mp 247°C (dec). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 719.

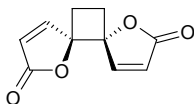
**1177 Anemarsaponin G**

Timosaponin G [195304-82-6] $C_{50}H_{80}O_{23}$ (1049.18). White amorphous powder, mp 258°C (dec). Pharm: Cytotoxic (HSC-2 cells, $LD_{50} = 12\mu\text{g/mL}$; HGF, $LD_{50} = 37\mu\text{g/mL}$)^[3023]. Source: YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0068%fw)^[3023], ZHI MU *Anemarrhena asphodeloides*. Ref: 719, 3023.

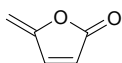


1178 Anemonin

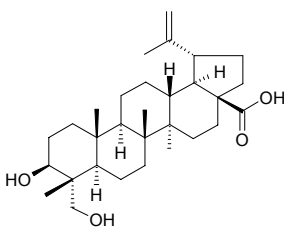
[508-44-1] C₁₀H₈O₄ (192.17). **Pharm:** Analgesic; antibacterial (*Staphylococcus* sp., *Streptococcus* sp. and *Bacillus diphtheriae*, IC = 1:12500, *Mycobacterium tuberculosis* and *Escherichia coli*, IC = 1:50000); antifungal; sedative. **Source:** BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*, BAI TOU WENG *Pulsatilla chinensis*, DA PO WAN HUA *Anemone hupehensis*, MA TI YE *Caltha palustris*, MAO GEN *Ranunculus japonicus*, SHI LONG RUI *Ranunculus sceleratus*, WEI LING XIAN *Clematis chinensis*, YING MAO TI GEN CAO *Helleborus orientalis* var. *hirsutus*. **Ref:** 2, 6, 658, 5501.

**1179 Anemonol**

Protoanemonin [108-28-1] C₅H₄O₂ (96.09). Pale-yellow oil, bp 45°C/1.5mmHg, steam-volatile, readily polymerized in air. **Pharm:** Vesicant; antibiotic; antibacterial (*Bacillus coli*, MIC = 12~30µmol/L; *Staphylococcus aureus*, MIC = 16.7µmol/L; *Shigella shigae*, MIC = 16.7µmol/L; *Mycobacterium tuberculosis*, MIC = 2.5µmol/L). **Source:** BAI TOU WENG *Pulsatilla chinensis*, MA TI YE *Caltha palustris*, MAO GEN *Ranunculus japonicus*, SHI LONG RUI *Ranunculus sceleratus*, WEI LING XIAN *Clematis chinensis*, ZI KOU CAO *Ranunculus cantoniensis*, family Ranunculaceae spp. **Ref:** 6, 1521, 5501.

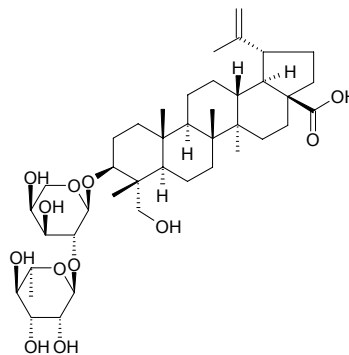
**1180 Anemosapogenin**

[85999-40-2] C₃₀H₄₈O₄ (472.71). **Source:** BAI TOU WENG *Pulsatilla chinensis*. **Ref:** 2.

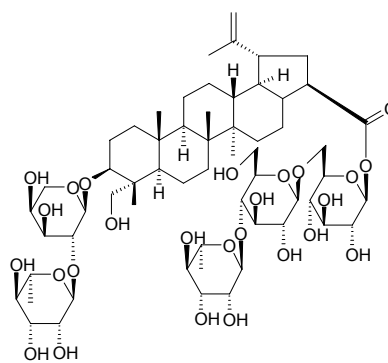
**1181 Anemoside A₃**

Pulchinenoside A₃ C₄₁H₆₆O₁₂ (750.98). Purity >= 99%, [α]_D²⁰ = -6.0° (c = 0.55, CH₃OH). **Pharm:** Anti-apoptosis (Protects PC12 Cells apoptosis Induced by sodium cyanide (NaCN, 10mmol/L) and glucose deprivation: MTT assay, control normal cells, survival rate = 100%, injured cells, survival rate = 70.5%, injured cells + 10.0µg/mL Anemoside A₃, survival rate = 96.4%; LDH release assay, control normal cells, LDH activity = (71.4±5.3)unit/mL, injured cells, LDH activity = (134.4±1.1)unit/mL, injured cells + 10.0µg/mL Anemoside A₃, LDH activity = (71.1±6.0)unit/mL; flow cytometry assay, control normal cells, apoptosis rate = (2.01±0.81)%, injured cells, apoptosis rate = (18.70±1.90)%, injured cells + 10.0µg/mL

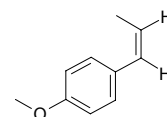
Anemoside A₃, apoptosis rate = (6.36±1.32)%^[5360]. **Source:** BAI TOU WENG *Pulsatilla chinensis*. **Ref:** 2, 2985, 3117, 5360.

**1182 Anemoside B₄**

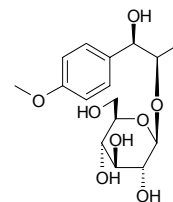
C₅₉H₉₆O₂₆ (1221.41). **Source:** BAI TOU WENG *Pulsatilla chinensis*. **Ref:** 2.

**1183 cis-Anethole**

cis-4-(1-Propenyl)anisole [25679-28-1] C₁₀H₁₂O (148.21). **Source:** HUI XIANG *Foeniculum vulgare*. **Ref:** 6, 7.

**1184 (1'R,2'R)-Anethole Glycol 2'-O-β-D-glucopyranoside**

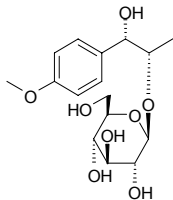
1-(4'-Methoxyphenyl)-(1R,2R)-propan-1-ol 2-O-β-D-glucopyranoside C₁₆H₂₄O₈ (344.36). Colorless needles (MeOH), mp 80~84°C, [α]_D²² = -59° (c = 0.4, MeOH); yellow powder, mp 152~155°C, [α]_D²⁵ = +42.10° (c = 0.142, MeOH). **Pharm:** Anti-sepsis inactive (mouse, TNF-α/D-GaIN-induced lethality, 8mg/kg, SuRt = 20%, control SuRt = 20%, Dexamethasone, 10mg/kg, SuRt = 100%)^[5446]. **Source:** BA JIAO HUI XIANG *Illicium verum*, HUI QIN *Pimpinella anisum* (fruit). **Ref:** 4242, 5446.



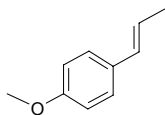
1185 (1'S,2'S)-Anethole glycol 2'-O-β-D-Glucopyranoside

[1-(4'-Methoxyphenyl)]-(1S,2S)-propan-1-ol 2-O-β-D-glucopyranoside C₁₆H₂₄O₈ (344.36). Colorless needles (MeOH), mp 75–78°C, [α]_D²² = +11° (c = 0.3, MeOH); yellow crystals, mp 64–65°C, [α]_D²⁵ = +47.95° (c = 0.225, MeOH). **Pharm:** Anti-sepsis inactive (mouse, TNF-α/D-GaIN-induced lethality, 14mg/kg, SuRt = 20%, control SuRt = 20%, Dexamethasone, 10mg/kg, SuRt = 100%)^[5446]. **Source:** BA JIAO HUI *Illicium verum*, HUI QIN

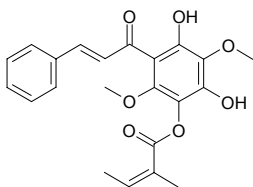
Pimpinella anisum (fruit). **Ref:** 4242, 5446.

**1186 Anethole**

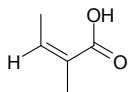
1-Methoxy-4-(1-propenyl)benzene [4180-23-8] C₁₀H₁₂O (148.21). **Pharm:** Carminative (animal model); leukopoietic. **Source:** BA JIAO HUANG PI *Clausena anisata*, BA JIAO HUI XIANG *Illicium verum* (fruit: content scope of 15 origins = 4.58%–8.88%, mean content = 6.42%^[5508]), DU SONG SHI *Juniperus rigida*, HUI QIN *Pimpinella anisum*, HUI XIANG *Foeniculum vulgare* (dried ripe fruit: mean content of 3 origins = 0.204%^[5508]), HUO XIANG *Agastache rugosus*, LIU YE MU LAN *Magnolia salicifolia*, LUO LE *Ocimum basilicum*, QING JIAO *Zanthoxylum schinifolium*, SHEN HAO *Artemisia porrecta*, SHUI HUI XIANG *Limnophila rugosa*, XIANG GEN QIN *Osmorhiza aristata* var. *laxa*, ZI WAN *Aster tataricus*. **Ref:** 2, 6, 7, 660, 1297, 5501, 5508.

**1187 Angelafolone**

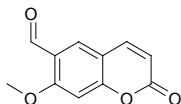
C₂₂H₂₂O₇ (398.42). **Source:** YU LIAO *Polygonum lapathifolium*. **Ref:** 660.

**1188 Angelic acid**

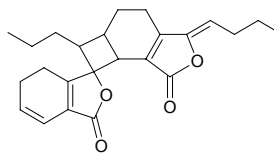
cis-2,3-Dimethylacrylic acid [565-63-9] C₅H₈O₂ (100.12). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FENG DOU CAI *Petasites japonicus*. **Ref:** 2.

**1189 Angelical**

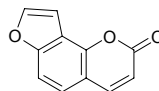
C₁₁H₈O₄ (204.18). mp 250°C. **Source:** YAN JIAO CAO *Boeninghausenia albiflora*. **Ref:** 2495.

**1190 Angelicid**

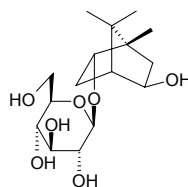
C₂₄H₂₈O₄ (380.49). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

**1191 Angelicin**

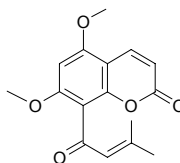
Isopsoralen; Bakuchicin [523-50-2] C₁₁H₆O₃ (186.17). mp 135.0–139.5°C, 142°C. **Pharm:** Antispasmodic (rbt, duodenum smooth muscle relaxant, EC = 20μg/mL, gpg, inhibits ileal contraction induced by acetylcholine, histamine, BaCl₂ and 5-HT by 50%); CNS depressant (mus, ip, 20mg/kg, inhibits spontaneous motion, presents dose-response relationship); photosensitizer; anti-early-pregnancy; anti-rejection symptom in skin grafting; LD₅₀ (rat, ip) = 165mg/kg, (mus, ip) = 254mg/kg. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: mean content of 10 origins = 0.427%^[5508]), GAN SONG *Nardostachys chinensis*, CHAI HU *Bupleurum chinense*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], YONG NING DU HUO *Heracleum yungningense*. **Ref:** 2, 6, 541, 545, 658, 5501, 5508.

**1192 (1R,2S,4S,5R)-Angelicoidenol 2-O-β-D-glucopyranoside**

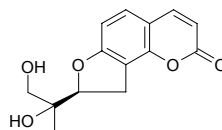
C₁₆H₂₈O₇ (332.40). **Source:** SUO SHA MI *Amomum xanthioides* (seed). **Ref:** 4365.

**1193 Angelicone**

Glabralactone [37719-98-5] C₁₆H₁₆O₅ (288.30). mp 129–130°C. **Source:** BEI FANG DANG GUI *Angelica ursina*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], GUANG HUA DANG GUI *Angelica glabra*. **Ref:** 2, 6, 660, 1521.

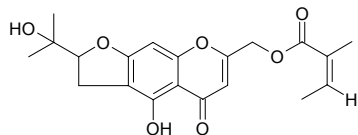
**1194 Angelidiol**

Heramandiol C₁₄H₁₄O₅ (262.26). Colorless needles, mp 148–150°C, [α]_D = +122.5° (c = 0.2, CHCl₃). **Source:** DA YE NIU FANG FENG *Heracleum mantegazzianum*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 8, 344, 1521.

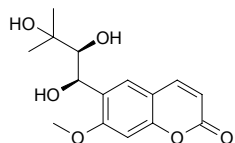


1195 Angelitin A

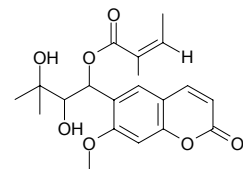
$C_{20}H_{22}O_7$ (374.39). White granular crystals, mp 177~178°C. Source: GUAI QIN *Angelica polymorpha*. Ref: 340.

**1196 Angelitriol**

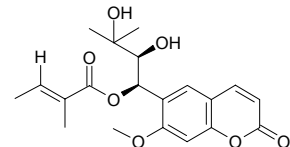
$C_{15}H_{18}O_6$ (294.31). Colorless needles, mp 167~169°C, $[\alpha]_D^{22} = -69^\circ$ ($c = 0.12$, $CHCl_3$). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 8.

**1197 Angelol**

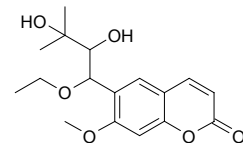
$C_{20}H_{24}O_7$ (376.41). mp 104~105°C. Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 6.

**1198 Angelol D**

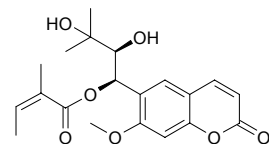
[83199-39-7] $C_{20}H_{24}O_7$ (376.41). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 7.

**1199 Angelol J**

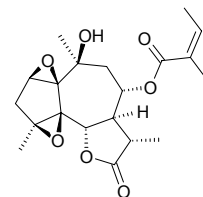
$C_{17}H_{22}O_6$ (322.36). Colorless hyaloid oil, $[\alpha]_D = -76.4^\circ$ ($c = 0.30$, $CHCl_3$). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 8.

**1200 Angelol K**

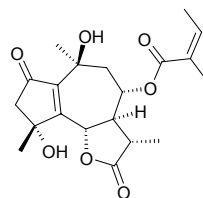
$C_{20}H_{24}O_7$ (376.41). Colorless powder, mp 116~118°C, $[\alpha]_D = -20.6^\circ$ ($c = 0.32$, $CHCl_3$). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 8.

**1201 8 α -Angeloxy-1 β ,2 β :4 β ,5 β -diepoxy-10 β -hydroxy-6 β H,7 α H,11 β H-12,6 α -guaianolide**

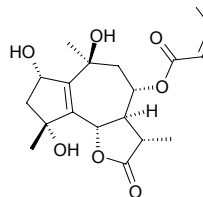
$C_{20}H_{26}O_7$ (378.43). $[\alpha]_D^{20} = +2.7^\circ$ ($c = 0.16$, $CHCl_3$). Source: YA ZHOU SHI *Achillea asiatica* (aerial parts). Ref: 5229.

**1202 8 α -Angeloxy-4 α ,10 β -dihydroxy-2-oxo-6 β H,7 α H,11 β H-1(5)-guaien-12,6 α -olide**

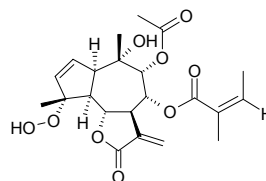
$C_{20}H_{26}O_7$ (378.43). $[\alpha]_D^{20} = +9.5^\circ$ ($c = 0.44$, $CHCl_3$). Source: YA ZHOU SHI *Achillea asiatica* (aerial parts). Ref: 5229.

**1203 8 α -Angeloxy-2 α ,4 α ,10 β -trihydroxy-6 β H,7 α H,11 β H-1(5)-guaien-12,6 α -olide**

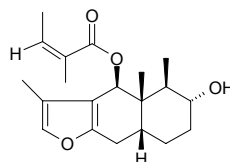
$C_{20}H_{28}O_7$ (380.44). $[\alpha]_D^{20} = +7.4^\circ$ ($c = 0.11$, $CHCl_3$). Source: YA ZHOU SHI *Achillea asiatica* (aerial parts). Ref: 5229.

**1204 8-O-Angeloyl-9-O-acetylanthemolide B**

$C_{22}H_{28}O_9$ (436.46). Colorless solid. Source: MENG DA NA CHUN HUANG JU *Anthemis cretica* ssp. *cretica* [Syn. *Anthemis montana*]. Ref: 1893.

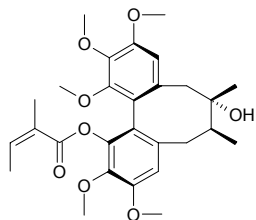
**1205 6-Angeloylfuranofukinol**

$C_{20}H_{28}O_4$ (332.44). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

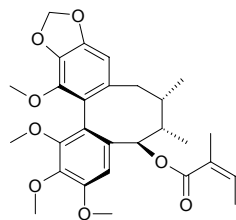


1206 Angeloyl gomisin H

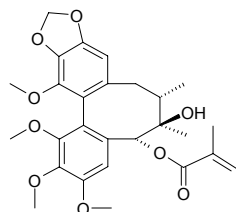
$C_{28}H_{36}O_8$ (500.59). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], WU WEI ZI *Schisandra chinensis*. Ref: 2, 660.

**1207 Angeloyl gomisin O**

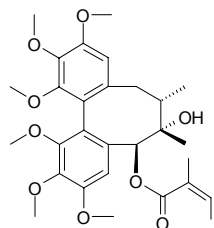
$C_{28}H_{34}O_8$ (498.58). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], WU WEI ZI *Schisandra chinensis*. Ref: 2, 660.

**1208 Angeloyl gomisin P**

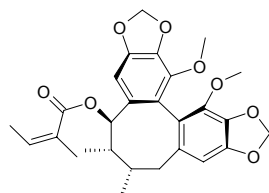
$C_{28}H_{34}O_9$ (514.58). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], WU WEI ZI *Schisandra chinensis*. Ref: 660.

**1209 Angeloylgomisin Q**

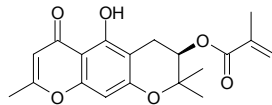
$C_{29}H_{38}O_9$ (530.62). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**1210 Angeloylgomisin R**

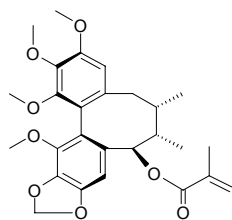
$C_{27}H_{30}O_8$ (482.54). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (10.6±0.4)% (positive control value 32pmol, 20ng TPA =100%), viability of Raji cells = 60%). Source: NEI NAN WU WEI ZI *Kadsura interior* (stem). Ref: 4644.

**1211 3-O-Angeloylhamaudol**

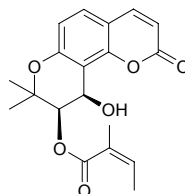
$C_{20}H_{22}O_6$ (358.39). Yellowish columnar crystals (pet. Ether-EtOAc), mp 128–129°C, $[\alpha]_D = -57^\circ$ (CDCl₃). Source: MO GUO QIN *Sphallerocarpus gracilis*. Ref: 2500.

**1212 Angeloylisogomisin O**

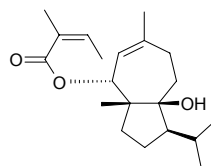
[83864-70-4] $C_{28}H_{34}O_8$ (498.58). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**1213 3'-Angeloyl-cis-khellactone**

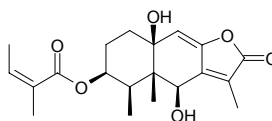
$C_{19}H_{20}O_6$ (344.37). Pharm: NO Production inhibitor (LPS-activated mouse peritoneal macrophages, IC₅₀ = 82μmol/L, control *L*-NMMA, IC₅₀ = 28μmol/L). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

**1214 1α-Angeloyloxycarotol**

$C_{20}H_{32}O_3$ (320.48). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

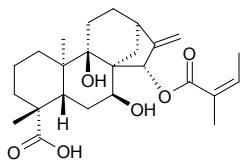
**1215 3β-Angeloyloxy-6β,10β-dihydroxyremophila-7(11),8(9)-dien-8,12-olide**

$C_{20}H_{26}O_6$ (362.43). Colorless gum, $[\alpha]_D^{20} = +122.6^\circ$ (c = 0.60, CHCl₃). Pharm: Antibacterial inactive (gram-positive and gram-negative bacteria). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

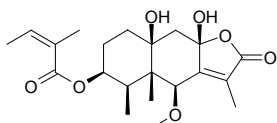


1216 ent-15 β -Angeloyloxy-7 α ,9 α -dihydroxy-kaur-16-en-19-oic acid

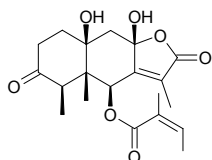
C₂₅H₃₆O₆ (432.56). [α]_D = -32.75° (*c* = 1.83, MeOH). Source: *Oyedeaea verbesinoides*. Ref: 3379.

**1217 3 β -Angeloyloxy-8 β ,10 β -dihydroxy-6 β -methoxyeremophilenolide**

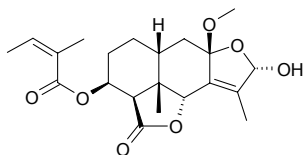
C₂₁H₃₀O₇ (394.47). Colorless crystals, mp 213.4~214.6°C, [α]_D²⁰ = +107.8° (*c* = 4.3, CHCl₃). Pharm: Antibacterial inactive (gram-positive and gram-negative bacteria). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

**1218 6 β -Angeloyloxy-8 β ,10 β -dihydroxy-3-oxo-eremophilenolide**

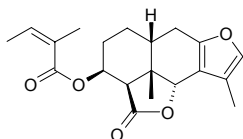
C₂₀H₂₆O₇ (378.43). Colorless gum, [α]_D²⁰ = +114.9° (*c* = 1.05, CHCl₃). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

**1219 3 β -Angeloyloxy-8,12-epoxy-12 α -hydroxy-8 β -methoxyeremophil-7(11)-en-14 β ,6 α -olide**

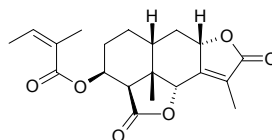
C₂₁H₂₈O₇ (392.45). Amorphous powder, mp 214~215°C, [α]_D²⁵ = +56.5° (*c* = 0.67, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.

**1220 3 β -Angeloyloxyeremophil-7,11-dien-14 β ,6 α -olide**

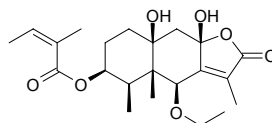
C₂₀H₂₄O₅ (344.41). Amorphous powder, mp 140~141°C, [α]_D²⁵ = +47.4° (*c* = 0.44, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.

**1221 3 β -Angeloyloxy-8 β H-eremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide**

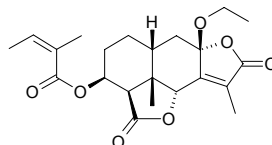
C₂₀H₂₄O₆ (360.41). Amorphous powder, mp 193~194°C, [α]_D²⁵ = +128.8° (*c* = 0.41, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.

**1222 3 β -Angeloyloxy-6 β -ethoxy-8 β ,10 β -dihydroxyeremophilenolide**

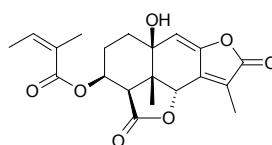
C₂₂H₃₂O₇ (408.50). Colorless gum, [α]_D²⁰ = +117.4° (*c* = 0.60, CHCl₃). Pharm: Antibacterial inactive (gram-positive and gram-negative bacteria). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

**1223 3 β -Angeloyloxy-8 β -ethoxyeremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide**

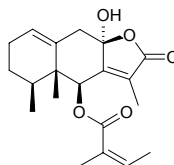
C₂₂H₂₈O₇ (404.46). Amorphous powder, mp 178~179°C, [α]_D²⁵ = +79.6° (*c* = 0.52, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.

**1224 3 β -Angeloyloxy-10 β -hydroxyeremophil-8(9),7(11)-diene-12,8(14 β ,6 α)-diolide**

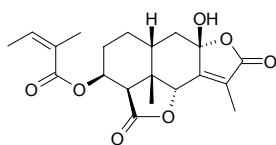
C₂₀H₂₂O₇ (374.39). Amorphous powder, mp 198~199°C, [α]_D²⁵ = +211.2° (*c* = 1.00, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.

**1225 6 β -Angeloyloxy-8 α -hydroxyeremophil-1(10),7(11)-dien-8 β (12)-olide**

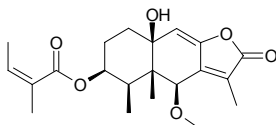
C₂₀H₂₆O₅ (346.43). Colorless gum, [α]_D²⁵ = -107° (*c* = 0.18, acetone). Source: JIA TUO WU *Ligulariopsis shichuana* (whole herb: 00022%dw). Ref: 4627.



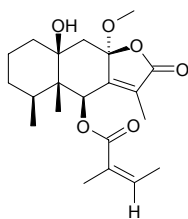
1226 3 β -Angeloyloxy-8 β -hydroxyremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide
 C₂₀H₂₄O₇ (376.41). Amorphous powder, mp 201~202°C, [α]_D²⁵ = +136.6° (c = 0.80, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.



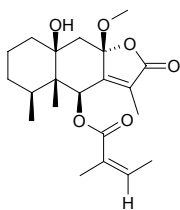
1227 3 β -Angeloyloxy-10 β -hydroxy-6 β -methoxyremophila-7(11),8(9)-dien-8,12-olide
 C₂₁H₂₈O₆ (376.45). Colorless gum, [α]_D²⁰ = +43.3° (c = 0.58, CHCl₃). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.



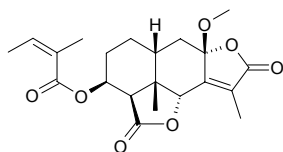
1228 6 β -Angeloyloxy-10 β -hydroxy-8 α -methoxyremophil-7(11)-en-12,8 β -olide
 C₂₁H₃₀O₆ (378.47). Source: JIAN YE TOU WU GEN *Ligularia sagitta*. Ref: 5382.



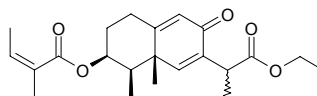
1229 6 β -Angeloyloxy-10 β -hydroxy-8 β -methoxyremophil-7(11)-en-12,8 α -olide
 C₂₁H₃₀O₆ (378.47). Source: JIAN YE TOU WU GEN *Ligularia sagitta*. Ref: 5382.



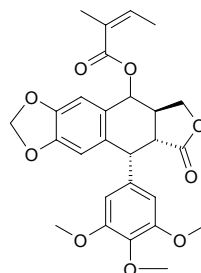
1230 3 β -Angeloyloxy-8 β -methoxyremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide
 C₂₁H₂₆O₇ (390.44). Amorphous powder, mp 180~181°C, [α]_D²⁵ = +71.6° (c = 0.54, CHCl₃). Source: NIU BANG YE DU WU *Ligularia lapathifolia* (root and rhizome). Ref: 4948.



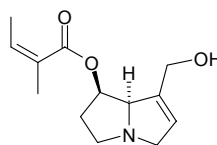
1231 3 β -Angeloyloxy-8-oxoeremophila-6,9-dien-12-oic acid ethyl ester
 C₂₂H₃₀O₅ (374.48). Colorless gum, [α]_D²⁰ = +47.6° (c = 0.43, CHCl₃). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.



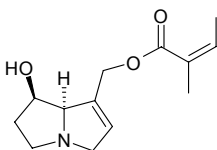
1232 Angeloylpodophyllotoxin
 C₂₇H₂₈O₉ (496.52). Source: E SHEN *Anthriscus sylvestris*. Ref: 5499.



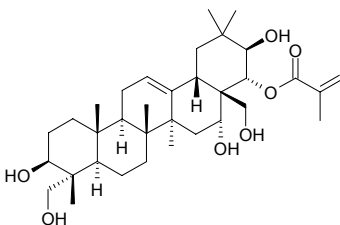
1233 O⁷-Angeloylretronecine
 C₁₃H₁₉NO₃ (237.30). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2193.



1234 O⁹-Angeloylretronecine
 C₁₃H₁₉NO₃ (237.30). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2193.

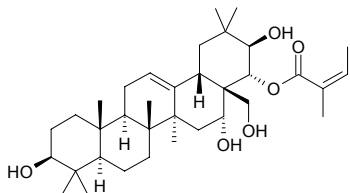


1235 22-O-Angeloyl theasapogenol A
 C₃₅H₅₆O₇ (588.83). Source: PU ER CHA *Camellia sinensis* var. *assamica*. Ref: 581.

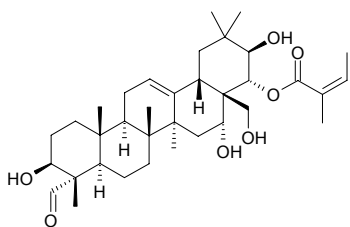


1236 22-O-Angeloyl theasapogenol B

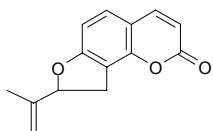
$C_{35}H_{56}O_6$ (573.83). Source: PU ER CHA *Camellia sinensis* var. *assamica*. Ref: 581.

**1237 22-O-Angeloyl theasapogenol E**

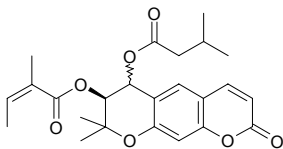
$C_{35}H_{54}O_7$ (586.82). Source: PU ER CHA *Camellia sinensis* var. *assamica*. Ref: 581.

**1238 Angenomalin**

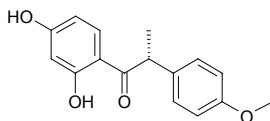
[33792-75-5] $C_{14}H_{12}O_3$ (228.25). mp 105~126°C. Source: HANG BAI ZHI *Angelica taiwaniana*. Ref: 6.

**1239 3'(S)-Angeroxyloxy-4'(R)-isovaleryloxy-3',4'-dihydroxanthyletin**

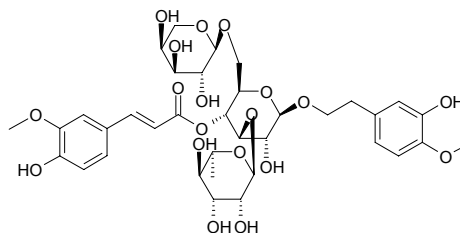
Praeruptorin III $C_{24}H_{28}O_7$ (428.49). Source: BAI HUA QIAN HU *Peucedanum praeruptorum*. Ref: 660.

**1240 Angolensin**

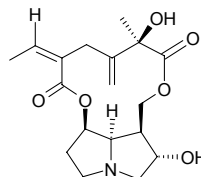
[4842-48-2] $C_{16}H_{16}O_4$ (272.30). mp (-) 120.5~121.0°C. Source: ZI TAN *Pterocarpus indicus*. Ref: 6.

**1241 Angoroside C**

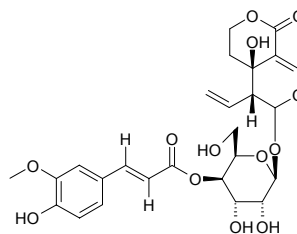
$C_{36}H_{48}O_{19}$ (784.77). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 29.3\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 8.0\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002\mu\text{g/mL}$)^[5251]; cytotoxic (L6 cells, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075\mu\text{g/mL}$). Source: LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). Ref: 5251.

**1242 Angularine**

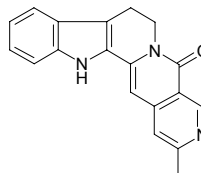
$C_{18}H_{25}NO_6$ (351.40). Pharm: Toxin (exhibits hepatic toxicity, causes necrosis of ox liver cells). Source: LENG JIAO QIAN LI GUANG *Senecio angularatus*. Ref: 658.

**1243 Angustiamarin**

$C_{26}H_{30}O_{13}$ (550.52). Light yellow amorphous powder, mp 115~118°C. Source: XIA YE ZHANG YA CAI *Swertia angustifolia*. Ref: 340.

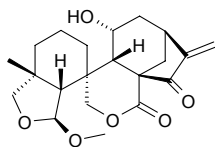
**1244 Angustidine**

[40217-50-3] $C_{19}H_{15}N_3O$ (301.35). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2, 2178.

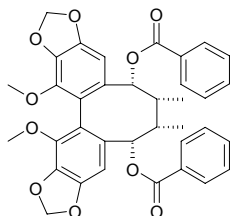


1245 Angustifolin

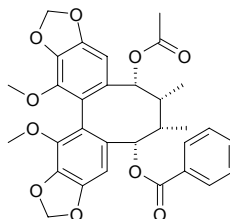
[66548-01-4] $C_{21}H_{28}O_6$ (376.45). mp 258~261°C, $[\alpha]_D^{20} = -60.2^\circ$ ($c = 1.25$, C_5H_5N). **Pharm:** Cytotoxic (*in vitro*, K562, $IC_{50} = 0.23\mu g/mL$; control *cis*-Platin, $IC_{50} = 0.52\mu g/mL$)^[4732]. **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00029%dw^[4732]), XIA YE XIANG CHA CAI *Isodon angustifolia*. **Ref:** 1521, 4067, 4732.

**1246 Angustifolin A**

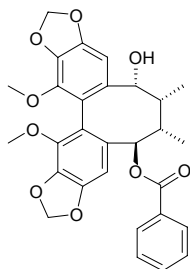
[211632-04-1] $C_{36}H_{32}O_{10}$ (624.65). **Source:** XIA XIE NAN WU WEI ZI *Kadsura angustifolia*. **Ref:** 2436.

**1247 Angustifolin B**

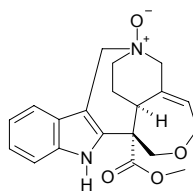
[211632-06-3] $C_{31}H_{30}O_{10}$ (562.58). **Source:** XIA XIE NAN WU WEI ZI *Kadsura angustifolia*. **Ref:** 2436.

**1248 Angustifolin C**

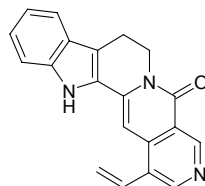
[211632-08-5] $C_{29}H_{28}O_9$ (520.54). **Source:** XIA XIE NAN WU WEI ZI *Kadsura angustifolia*, BO LUO XIANG TENG *Kadsura ananosma* (stem bark). **Ref:** 2436, 5242.

**1249 Angustilobine B N4-oxide**

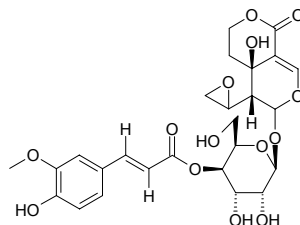
$C_{20}H_{22}N_2O_4$ (354.41). **Source:** XIANG PI MU *Alstonia scholaris* (leaf). **Ref:** 5283.

**1250 Angustine**

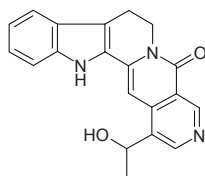
[40041-96-1] $C_{20}H_{15}N_3O$ (313.36). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial; toxin. **Source:** NIU YAN MA QIAN *Strychnos angustiflora*. **Ref:** 658, 2178.

**1251 Angustioside**

$C_{26}H_{30}O_{14}$ (566.52). Light yellow amorphous powder, bitter flavor, mp 124~128°C. **Source:** XIA YE ZHANG YA CAI *Swertia angustifolia*. **Ref:** 220.

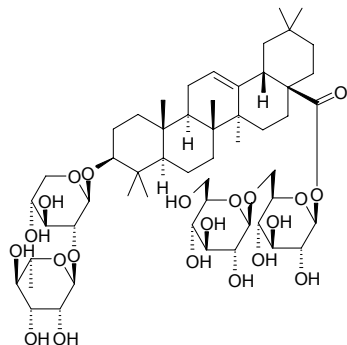
**1252 Angustoline**

[40041-95-0] $C_{20}H_{17}N_3O_2$ (331.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 2, 2178.

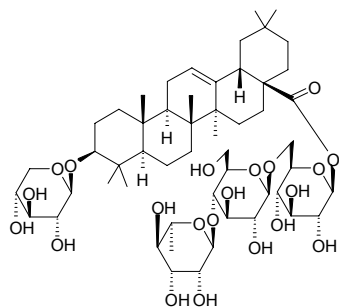


1253 Anhuienoside C

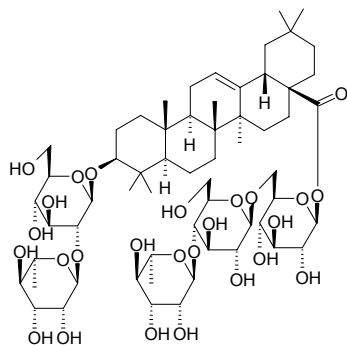
3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₅₃H₈₆O₂₁ (1059.26). White powder (MeOH), mp 238~241°C, $[\alpha]_D^{20} = -8.6^\circ$ ($c = 0.42$, MeOH).
Source: AN HUI YIN LIAN HUA *Anemone anhuiensis* (rhizome). Ref: 3529.

**1254 Anhuienoside D**

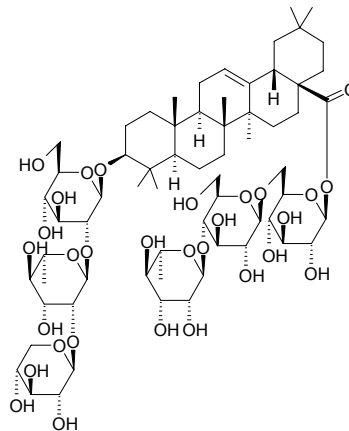
3-*O*- β -*D*-Xylopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₅₃H₈₆O₂₁ (1059.26). White powder (MeOH), mp 251~253°C, $[\alpha]_D^{20} = -63.6^\circ$ ($c = 0.33$, MeOH).
Source: AN HUI YIN LIAN HUA *Anemone anhuiensis* (rhizome). Ref: 3529.

**1255 Anhuienoside E**

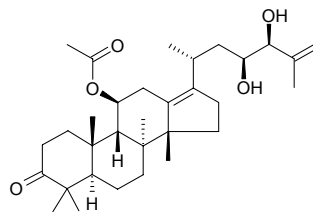
3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₆₀H₉₈O₂₆ (1235.43). White powder (MeOH), mp 224~226°C.
Source: AN HUI YIN LIAN HUA *Anemone anhuiensis* (rhizome). Ref: 3529.

**1256 Anhuienoside F**

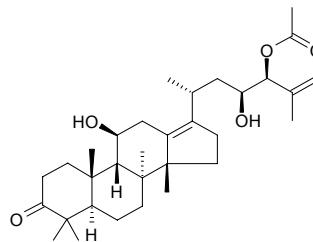
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₆₅H₁₀₆O₃₀ (1367.55). White powder (MeOH), mp 235~236°C. Source: AN HUI YIN LIAN HUA *Anemone anhuiensis* (rhizome). Ref: 3529.

**1257 25-Anhydroalisol A 11-acetate**

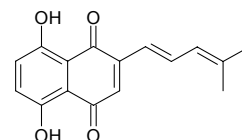
C₃₂H₅₀O₅ (514.75). Colorless needles, mp 215~216°C. Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. Ref: 2202.

**1258 25-Anhydroalisol A 24-acetate**

C₃₂H₅₀O₅ (514.75). Colorless needles, mp 212~213°C. Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. Ref: 2202.

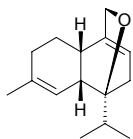
**1259 Anhydroalkannin**

C₁₆H₁₄O₄ (270.29). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2193.

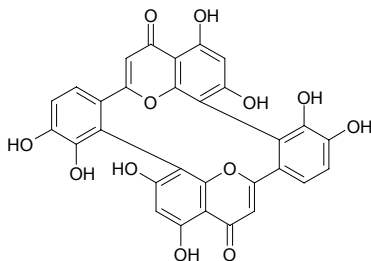


1260 7,14-Anhydro-amorpha-4,9-diene

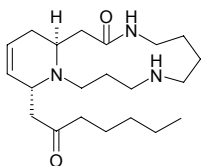
(+)-(2*S*,7*R*,8*S*)-5-Methyl-8-(1-methylethyl)-9-oxa-tricyclo[6.2.2.0^{2,7}]dodeca-1(11),5-diene C₁₅H₂₂O (218.34). Colorless oil. Source: DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). Ref: 5209.

**1261 Anhydrobartramiaflavone**

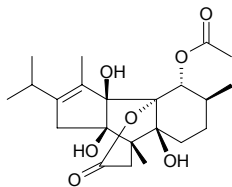
C₃₀H₁₆O₁₂ (568.45). Source: LI SHUO ZHU XIAN *Bartramia pomiformis*. Ref: 4549.

**1262 Anhydrocannabisativine**

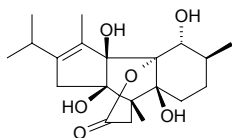
C₂₁H₃₇N₃O₂ (363.55). Source: MA GEN *Cannabis sativa*, MA YE *Cannabis sativa*. Ref: 660.

**1263 Anhydrocinnzeylanine**

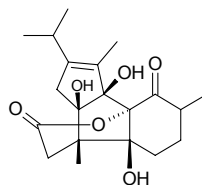
C₂₃H₃₄O₇ (422.52). Source: GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*]. Ref: 660.

**1264 Anhydrocinnzeylanol**

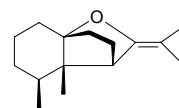
C₂₁H₃₂O₆ (380.49). Pharm: Antifeedant (*Spodoptera littoralis*, EC₅₀ = 0.22nmol/cm², *Leptinotarsa decemlineata*, EC₅₀ = 2.29nmol/cm²)^[5128]. Source: GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], YIN DU E LI *Persea indica* (aerial parts). Ref: 660, 5128.

**1265 Anhydrocinnzeylanone**

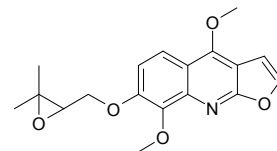
C₂₀H₂₈O₆ (364.44). Pharm: Antifeedant (*Spodoptera littoralis*, EC₅₀ > 27nmol/cm², *Leptinotarsa decemlineata*, EC₅₀ > 27nmol/cm²)^[5128]. Source: YIN DU E LI *Persea indica* (aerial parts). Ref: 5128.

**1266 7,10-Anhydro-11,12-dihydrochiloscypholone**

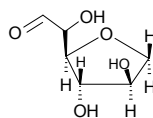
(+)-(1*R*,5*S*,6*S*,7*S*)-5,6-Dimethyl-9-oxo-8-isopropylidene-tricyclo[5.2.2.0^{1,6}]undecane C₁₅H₂₄O (220.36). Colorless oil. Source: DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). Ref: 5209.

**1267 Anhydroevoxine**

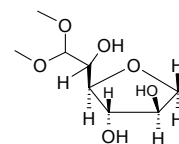
C₁₈H₁₉NO₅ (329.36). Needles, mp 133–134°C. Source: GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). Ref: 3503.

**1268 3,6-Anhydrogalactose**

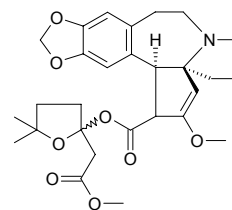
C₆H₁₀O₅ (162.14). Source: QI LIN CAI *Eucheuma muricatum*. Ref: 6.

**1269 3,6-Anhydro-L-galactose dimethyl acetal**

C₈H₁₆O₆ (208.21). Source: LU JIAO CAI *Gloiopeltis furcata*. Ref: 6.

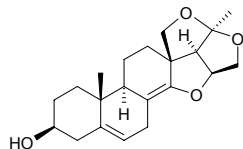
**1270 Anhydroharringtonine**

[142735-74-8] C₂₈H₃₅NO₈ (513.59). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

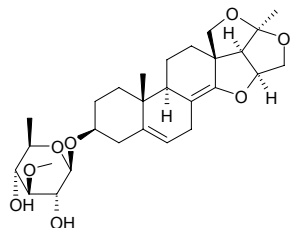


1271 Anhydrohirundigenin

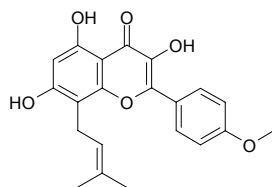
$C_{21}H_{28}O_4$ (344.45). Amorphous powder, $[\alpha]_D^{25} = -19.62^\circ$ ($c = 0.107$, MeOH). **Pharm:** Vasodilator inactive (*in vitro*, rat isolated aortic rings with endothelium, pre-contracted by $0.1 \mu\text{mol/L}$ phenylephrine or 100mmol/L KCl). **Source:** LIU YE BAI QIAN *Cynanchum stauntonii*. **Ref:** 4077.

**1272 Anhydrohirundigenin monothevetoside**

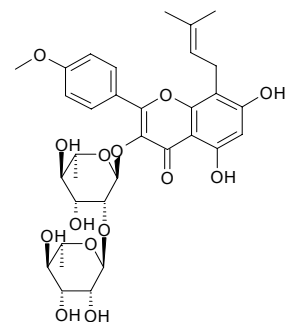
$C_{28}H_{40}O_8$ (504.63). Amorphous powder, $[\alpha]_D^{25} = -22.82^\circ$ ($c = 0.241$, MeOH). **Pharm:** Vasodilator inactive (*in vitro*, rat isolated aortic rings with endothelium, pre-contracted by $0.1 \mu\text{mol/L}$ phenylephrine or 100mmol/L KCl). **Source:** LIU YE BAI QIAN *Cynanchum stauntonii*. **Ref:** 4077.

**1273 Anhydroicaritin**

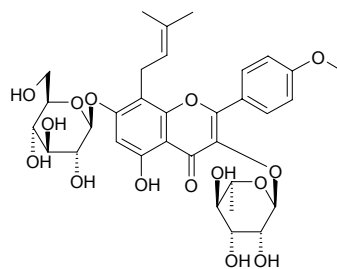
Icaritin [118525-40-9] $C_{21}H_{20}O_6$ (368.39). Yellow powder, mp $228\text{--}229^\circ\text{C}$; mp $230\text{--}231^\circ\text{C}$. **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum*, CHUAN DIAN YIN YANG HUO *Epimedium davidii*, CU MAO YIN YANG HUO *Epimedium acuminatum*, WAN SHAN YIN YANG HUO *Epimedium wanshanense*, WU SHAN YIN YANG HUO *Epimedium wushanense*. **Ref:** 465, 458, 539, 660, 1521.

**1274 Anhydroicaritin-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranoside**

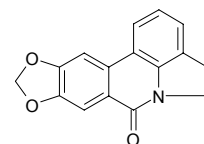
[135293-13-9] $C_{33}H_{40}O_{14}$ (660.68). **Source:** WAN SHAN YIN YANG HUO *Epimedium wanshanense*. **Ref:** 574.

**1275 Anhydroicaritin-3-O- α -L-rhamnosyl-7-O- β -D-glucopyranoside**

Icariin [489-32-7] $C_{33}H_{40}O_{15}$ (676.68). **Pharm:** Antihypertensive (rbt, mild); coronary vasodilator (increases coronary flow, using original plant *Sagittate Epimedium*, JIAN YE YIN YANG HUO *Epimedium sagittatum*, used in treatment of AP); antidote (significant reduces release of alanine-amino-ferase and sorbito-dehydrogenase, $1\text{--}20 \mu\text{mL}$, antidotic rate = 76%)^[5501]; increases tolerance to anoxia (rat cerebral anoxia, treated by tubocurare)^[5501]; osteoblastic differentiation stimulator (promotes synthesis and secretion of alkaline phosphatase (AKP) and type I collagen in osteoblasts)^[5501]; cytotoxic (leukemia)^[5501]; vasodilator^[5501]; immunoenhancer (mouse)^[5501]; antineoplastic^[5501]. **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content scope = $0.72\%\text{--}3.69\%$, mean content = 1.61%)^[5508], CHUAN DIAN YIN YANG HUO *Epimedium davidii* (aerial parts: content = 0.72%)^[5508], CHUAN E YIN YANG HUO *Epimedium fargesii* (aerial parts: content = 0.66%)^[5508], CHUAN XI YIN YANG HUO *Epimedium elongatum* (aerial parts: content = 0.48%)^[5508], CU MAO YIN YANG HUO *Epimedium acuminatum* (aerial parts: mean content of 2 origins = 1.14%)^[5508], DA HUA YIN YANG HUO *Epimedium grandiflorum*, JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: content scope = $0.33\%\text{--}1.60\%$, mean content = 1.11%)^[5508], ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content scope = $0.29\%\text{--}1.62\%$, mean content = 1.21%)^[5508], SI CHUAN YIN YANG HUO *Epimedium sutchuenense* (aerial parts: content = 0.57%)^[5508], WU JU YIN YANG HUO *Epimedium ecalcaratum* (aerial parts: content = 0.67%)^[5508], WU SHAN YIN YANG HUO *Epimedium wushanense* (aerial parts: content scope = $0.44\%\text{--}2.78\%$, mean content = 1.26%)^[5508], YIN YANG HUO *Epimedium brevicornum* (aerial parts: content scope = $1.01\%\text{--}8.81\%$)^[5501], mean content = 1.27%)^[5508]. **Ref:** 2, 514, 568, 635, 658, 660, 5501, 5508.

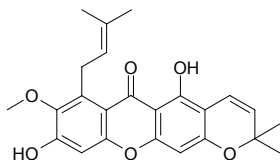
**1276 Anhydrolycorin-6-one**

$C_{16}H_{11}NO_3$ (265.27). **Pharm:** Antiplasmodial (strain D10, $IC_{50} = 6.1 \mu\text{g/mL}$, control Hamayne, $IC_{50} = 15.6 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.002 \mu\text{g/mL}$; strain FAC8, $IC_{50} = 6.4 \mu\text{g/mL}$, Hamayne, $IC_{50} = 18.2 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.01 \mu\text{g/mL}$; cytotoxic, BL6, $IC_{50} = 3.3 \mu\text{g/mL}$, Hamayne, $IC_{50} = 9.4 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 20.9 \mu\text{g/mL}$, Daunomycin, $IC_{50} = 0.43 \mu\text{g/mL}$). **Source:** BU LANG WEI JI *Brunsvigia radulosa* (bulb). **Ref:** 3931.

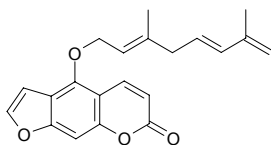


1277 Anhydromangostanol*

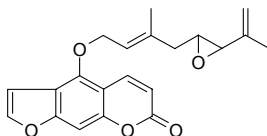
1,6-Dihydroxy-7-methoxy-8-(3-methylbut-2-enyl)6',6'-dimethylpyrano(2',3':3,2)xanثone C₂₄H₂₄O₆ (408.46). **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 3.72μg/mL, control Ellipticine, IC₅₀ = 1.33μg/mL; BC-1, IC₅₀ = 3.02μg/mL, Ellipticine, IC₅₀ = 1.46μg/mL; NCI-H187, IC₅₀ = 2.19μg/mL Ellipticine, IC₅₀ = 0.39μg/mL)^[1619]; antitubercular (*Mycobacterium tuberculosis*, MIC = 12.5μg/mL)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.018%dw). **Ref:** 1619, 4358.

**1278 Anhydronoptol**

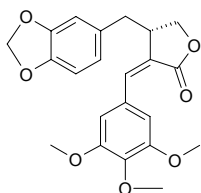
C₂₁H₂₀O₄ (336.39). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2, 507.

**1279 Anhydronoptoloxide**

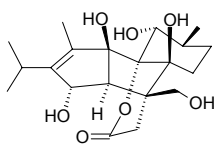
5-[(2E)-3,7-Dimethyl-5,6-epoxy-2,7-octadienyloxy] psoralen C₂₁H₂₀O₅ (352.39). Colorless oleaginous substance. **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 325.

**1280 Anhydropodorhizol**

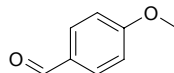
C₂₂H₂₂O₇ (398.42). **Source:** E SHEN *Anthriscus sylvestris*. **Ref:** 5499.

**1281 Anhydrospiganthol**

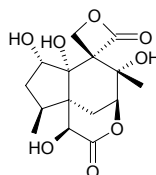
C₂₀H₃₀O₇ (382.46). Amorphous. **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

**1282 p-Anisaldehyde**

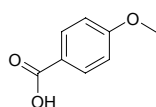
[123-11-5] C₈H₈O₂ (136.15). **Pharm:** Antifungal. **Source:** BA JIAO HUI XIANG *Illicium verum*, HUI QIN *Pimpinella anisum*, HUI XIANG *Foeniculum vulgare*, HUO XIANG *Agastache rugosus*, KONG SHI CHUN *Uva pertusa*, LIU YE MU LAN *Magnolia salicifolia*, XIANG GEN QIN *Osmorhiza aristata* var. *laxa*, *Cassia* sp., *Acacia* sp., *Vanilla* sp., *Pinus* sp. **Ref:** 2, 6, 660.

**1283 Anisatin**

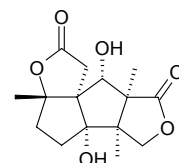
[5230-87-5] C₁₅H₂₀O₈ (328.32). White acicular crystals (ethyl acetate), mp 211~213°C, [α]_D²⁰ = -28° (c = 2, dioxocyclohexane). **Pharm:** Antipyretic (mus orl, ED = 0.5mg/kg); analgesic (mus, ED < 0.1mg/kg); toxin (hmn); LD₅₀ (mus, ip) = 0.7mg/kg. **Source:** RI BEN MANG CAO *Illicium anisatum* (the compound was isolated from the plant in 1965)^[5505], HONG HUI XIANG *Illicium henryi*, *Illicium merrillianum* (pericarp: yield = 0.0013%dw)^[3046]. **Ref:** 658, 900, 3046, 5505.

**1284 Anisic acid**

4-Methoxybenzoic acid [1335-08-6] C₈H₈O₃ (152.15). **Pharm:** NO production inhibitor inactive (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 141μg/mL; control L-NMMA, IC₅₀ = 27.4μg/mL)^[4473]. **Source:** BA JIAO HUI XIANG *Illicium verum*, BAI MU XIANG *Aquilaria sinensis*, DANG GUI *Angelica sinensis*, FEI JI CAO *Eupatorium odoratum*, HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark), HUI XIANG *Foeniculum vulgare*, HUI XIANG JING YE *Foeniculum vulgare*, SHUI HUI XIANG *Limnophila rugosa*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). **Ref:** 2, 13, 4473, 4488.

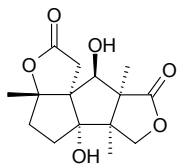
**1285 Anislactone A**

C₁₅H₂₀O₆ (296.32). **Source:** RI BEN MANG CAO *Illicium anisatum*, *Illicium merrillianum* (pericarp: yield = 0.00006%dw)^[3046]. **Ref:** 1521, 3046.

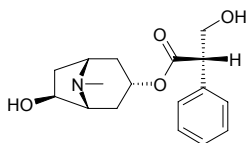


1286 Anisactone B

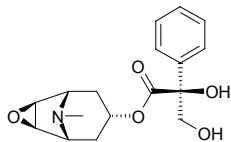
$C_{15}H_{20}O_6$ (296.32). Source: RI BEN MANG CAO *Illicium anisatum*, *Illicium merrillianum* (pericarp: yield = 0.016%dw)^[3046]. Ref: 1521, 3046.

**1287 Anisodamine**

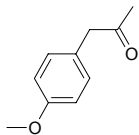
[17659-49-3] $C_{17}H_{23}NO_4$ (305.38). mp 84.5–85.5°C. Pharm: Analgesic; antiarrhythmic; anticholinergic; antispasmodic (blood vessel); antiulcerative; platelet aggregation inhibitor; smooth muscle relaxant (stomach, duodenum and biliary tract). Source: LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: mean content of 5 origins = 0.0447%^[5508]), YANG JIN HUA *Datura metel* (flower: content scope of 3 origins = 0.005%–0.027%, mean content = 0.017%^[5508]), ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (root: content scope of 3 origins = 0.036%–0.088%, mean content = 0.061%^[5508]). Ref: 4, 6, 658, 5508.

**1288 Anisodine**

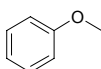
$C_{17}H_{21}NO_5$ (319.36). mp 62–64°C. Pharm: Anticholinergic; antispasmodic; salivary secretion inhibitor; mydriatic. Source: ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (root: content scope of 2 origins = 0.006%–0.200%, mean content = 0.103%^[5508]). Ref: 4, 6, 658, 5508.

**1289 Anisolacetone**

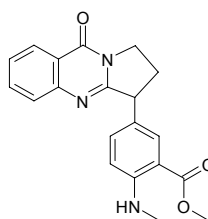
Anisic ketone [122-84-9] $C_{10}H_{12}O_2$ (164.21). bp 267–269°C. Source: BA JIAO HUI XIANG *Illicium verum*, HUI XIANG *Foeniculum vulgare*. Ref: 6.

**1290 Anisole**

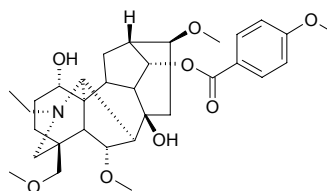
C_7H_8O (108.14). Fragrant liquid, mp –37.3°C, bp 155.5°C/760mmHg; 93.0°C/100mmHg; 70.7°C/40mmHg; 55.8°C/20mmHg; 42.2°C/10mmHg; 30.0°C/5mmHg; 5.4°C/1.0mmHg. Pharm: Estrogenic activity. Source: SAI LE LUO LE *Ocimum selloi*. Ref: 658, 661.

**1291 Anisotine**

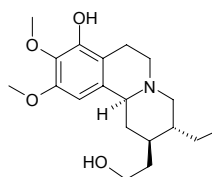
[16688-19-0] $C_{20}H_{19}N_3O_3$ (349.39). mp 189–190°C. Source: DA BO GU *Adhatoda vasica*. Ref: 6.

**1292 14-O-Anisoylneoline**

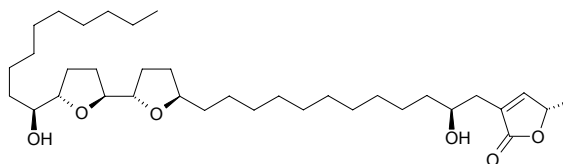
$C_{32}H_{45}NO_8$ (571.72). Amorphous powder (MeOH), $[\alpha]_D^{22} = +22.3^\circ$ ($c = 0.7$, $CHCl_3$). Source: FU ZI *Aconitum carmichaeli* (tuber). Ref: 4373.

**1293 Ankorine**

[13849-54-2] $C_{19}H_{29}NO_4$ (335.45). Pharm: Leprostatic (anti-leprosis, using source plants *Alangium lamarckii* and *A. kurzii*); antihypertensive; dermatitis suppressant (treatment of skin disease, using source plants *Alangium lamarckii*, and *A. kurzii*). Source: AN GE LA BA JIAO FENG *Alangium lamarckii*, MAO BA JIAO FENG *Alangium kurzii*. Ref: 658.

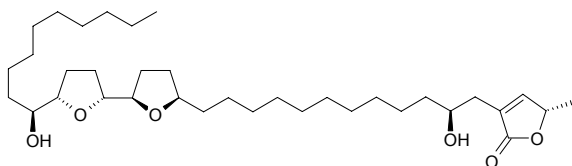
**1294 Annocatacin A**

$C_{35}H_{62}O_6$ (578.88). Yellowish waxy solid, $[\alpha]_D^{25} = +21.3^\circ$ ($c = 0.04$, $CHCl_3$). Pharm: Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 12.11 \mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.241 \mu\text{g/mL}$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.0817 \mu\text{g/mL}$, Adriamycin, $IC_{50} = 0.450 \mu\text{g/mL}$). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 5377.

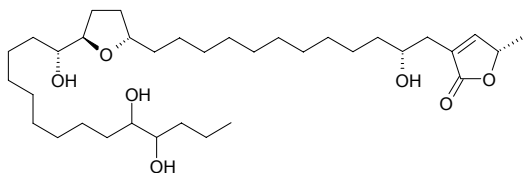


1295 Annocatacin B

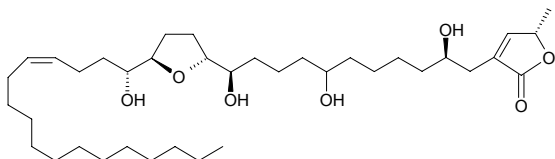
$C_{35}H_{62}O_6$ (578.88). Colorless oil, $[\alpha]_D^{25} = +13.2^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.0335\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.241\mu\text{g/mL}$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.222\mu\text{g/mL}$, Adriamycin, $IC_{50} = 0.450\mu\text{g/mL}$). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 5377.

**1296 Annocatalin**

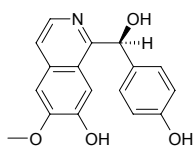
$C_{35}H_{64}O_7$ (596.9). White waxy solid, $[\alpha]_D^{25} = +23.2^\circ$ ($c = 0.05$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HepG2, $IC_{50} = 5.7\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.241\mu\text{g/mL}$; Hep2,2,15, $IC_{50} = 0.00348\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.45\mu\text{g/mL}$). **Source:** CI GUO FAN LI ZHI *Annona muricata* (leaf: yield = 0.00013%dw). **Ref:** 4617.

**1297 Annocherimolin**

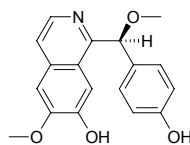
$C_{37}H_{66}O_7$ (622.93). White powder, mp 57.9–58.7°C, $[\alpha]_D^{23} = -21^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** Cytotoxic (BST, $LC_{50} = 0.0058\mu\text{g/mL}$; A549, $ED_{50} = 1.56\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.00113\mu\text{g/mL}$; MCF7, $ED_{50} = 0.0000406\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0182\mu\text{g/mL}$; HT29, $ED_{50} = 0.0000249\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0128\mu\text{g/mL}$; A498, $ED_{50} = 0.153\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.00226\mu\text{g/mL}$; PC3, $ED_{50} = 1.02\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0502\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 0.000012\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.00262\mu\text{g/mL}$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed: yield = 0.00013%dw). **Ref:** 3049.

**1298 Annocherine A**

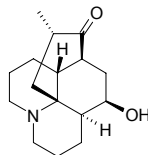
$C_{17}H_{15}NO_4$ (297.31). Yellow acicular crystals, mp 156–158°C, $[\alpha]_D^{24} = 135^\circ$ ($c = 0.1$, CHCl_3). **Source:** MAO YE FAN LI ZHI *Annona cherimolia*. **Ref:** 751.

**1299 Annocherine B**

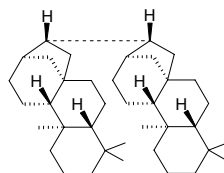
$C_{18}H_{17}NO_4$ (311.43). Yellow amorphous powder, mp 196–198°C, $[\alpha]_D^{24} = 115^\circ$ ($c = 0.1$, CHCl_3). **Source:** MAO YE FAN LI ZHI *Annona cherimolia*. **Ref:** 751.

**1300 Annofoline**

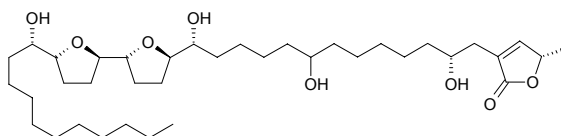
$C_{16}H_{25}NO_2$ (263.38). **Source:** DAN SUI SHI SONG *Lycopodium annotinum*. **Ref:** 660.

**1301 Annoglabayin**

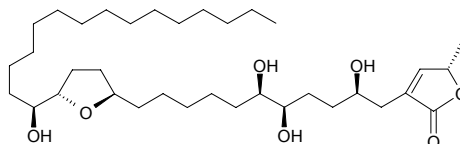
(16→16)-Bis-16β-hydro-*ent*-kaurane $C_{38}H_{62}$ (518.92). White powder, mp 125–127°C, $[\alpha]_D^{25} = -5.2^\circ$ ($c = 0.75$, CHCl_3). **Source:** YUAN HUA FAN LI ZHI *Annona glabra* (fruit: yield = 0.00215%fw). **Ref:** 4782.

**1302 Annoglaucin**

$C_{37}H_{66}O_8$ (638.93). Waxy solid, $[\alpha]_D^{25} = +15.5^\circ$ ($c = 0.25$, CHCl_3). **Pharm:** Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.888\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.241\mu\text{g/mL}$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.0173\mu\text{g/mL}$, Adriamycin, $IC_{50} = 0.450\mu\text{g/mL}$). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 5377.

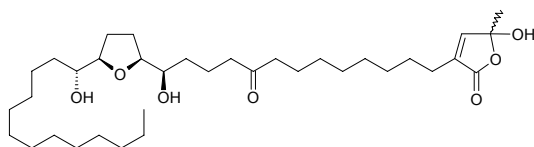
**1303 Annomolin**

$C_{35}H_{64}O_7$ (596.90). White powder, mp 60.5–61.2°C, $[\alpha]_D^{23} = +4.0^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** Cytotoxic (BST, $LC_{50} = 0.0094\mu\text{g/mL}$; A549, $ED_{50} = 2.37\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.00113\mu\text{g/mL}$; MCF7, $ED_{50} = 0.000115\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0182\mu\text{g/mL}$; HT29, $ED_{50} = 0.0000892\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0128\mu\text{g/mL}$; A498, $ED_{50} = 0.000688\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.00226\mu\text{g/mL}$; PC3, $ED_{50} = 0.0000539\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.0502\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 2.18\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.00262\mu\text{g/mL}$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed: yield = 0.00025%dw). **Ref:** 3049.

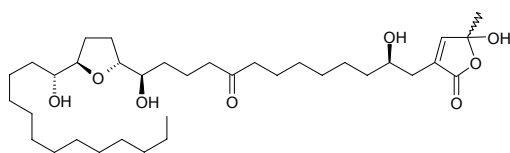


1304 Annomolon A

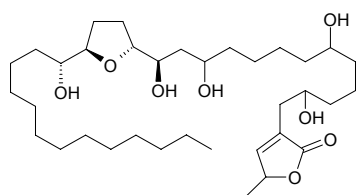
$C_{35}H_{62}O_7$ (594.88). White powder, mp 82.1~82.7°C, $[\alpha]_D^{23} = -5.0^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** The data are from mixture of anomolon A and 34-*epi*-anomolon A: cytotoxic (BST, $LC_{50} = 0.375\mu g/mL$); cytotoxic (*in vitro*, A549, $ED_{50} = 1.26\mu g/mL$; MCF7, $ED_{50} = 0.303\mu g/mL$; HT29, $ED_{50} = 0.193\mu g/mL$; A498, $ED_{50} = 0.93\mu g/mL$; PC3, $ED_{50} = 0.198\mu g/mL$; MIA-PaCa-2, $ED_{50} = 0.00312\mu g/mL$; control Adriamycin: A549, $ED_{50} = 0.00113\mu g/mL$; MCF7, $ED_{50} = 0.0182\mu g/mL$; HT29, $ED_{50} = 0.0128\mu g/mL$; A498, $ED_{50} = 0.00226\mu g/mL$; PC3, $ED_{50} = 0.0502\mu g/mL$; MIA-PaCa-2, $ED_{50} = 0.00262\mu g/mL$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 4731.

**1305 Annomolon B**

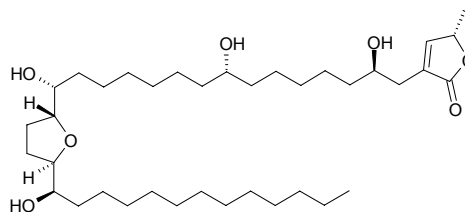
$C_{35}H_{62}O_8$ (610.88). White powder, mp 86.3~87.2°C, $[\alpha]_D^{23} = +6.0^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** The data are from mixtures of anomolon B and 34-*epi*-anomolon B: cytotoxic (BST, $LC_{50} = 0.07\mu g/mL$); cytotoxic (*in vitro*, A549, $ED_{50} = 1.37\mu g/mL$; MCF7, $ED_{50} = 0.047\mu g/mL$; HT29, $ED_{50} = 0.0719\mu g/mL$; A498, $ED_{50} = 0.377\mu g/mL$; PC3, $ED_{50} = 0.0553\mu g/mL$; MIA-PaCa-2, $ED_{50} = 0.00748\mu g/mL$; control Adriamycin: A549, $ED_{50} = 0.00113\mu g/mL$; MCF7, $ED_{50} = 0.0182\mu g/mL$; HT29, $ED_{50} = 0.0128\mu g/mL$; A498, $ED_{50} = 0.00226\mu g/mL$; PC3, $ED_{50} = 0.0502\mu g/mL$; MIA-PaCa-2, $ED_{50} = 0.00262\mu g/mL$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 4731.

**1306 Annomonicin**

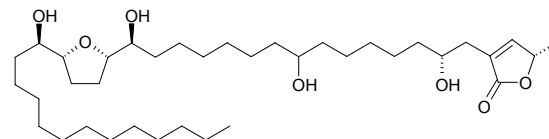
[128741-22-0] $C_{35}H_{64}O_8$ (612.90). Light yellow wax solid, mp 85~87°C. **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 0.24\mu g/mL$, KB, $ED_{50} = 1.73\mu g/mL$). **Source:** NIU XIN FAN LI ZHI *Annona reticulata*, SHAN FAN LI ZHI *Annona montana*. **Ref:** 432, 1050, 1521.

**1307 Annomontacin**

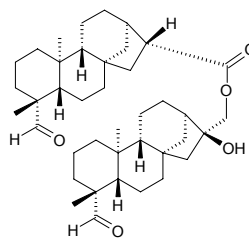
$C_{37}H_{68}O_7$ (624.95). **Pharm:** Produces apoptotic events (increases DNA damage in HepG2 cells, and induces a noticeable decrease in mitochondrial transmembrane potential)^[4782]. **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.0045%dw)^[4617], SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.00065%^[4775]), YUAN HUA FAN LI ZHI *Annona glabra* (fruit: yield = 0.0117%fw)^[4782]. **Ref:** 4617, 4775, 4782.

**1308 cis-Annomontacin**

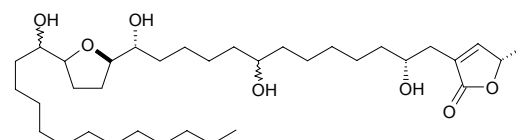
$C_{37}H_{68}O_7$ (624.95). White waxy solid, $[\alpha]_D^{25} = +36.5^\circ$ ($c = 0.03$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, HepG2, $IC_{50} = 0.298\mu g/mL$, control Adriamycin, $IC_{50} = 0.241\mu g/mL$; Hep2,2,15, $IC_{50} = 0.0162\mu g/mL$, control Adriamycin, $IC_{50} = 0.45\mu g/mL$)^[4617]. **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.0026%dw)^[4617], SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.0003%^[4775]). **Ref:** 4617, 4775.

**1309 Annomosin A**

$C_{40}H_{60}O_5$ (620.92). White needles, mp 170~171°C, $[\alpha]_D^{25} = -49.3^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00067%fw). **Ref:** 4654.

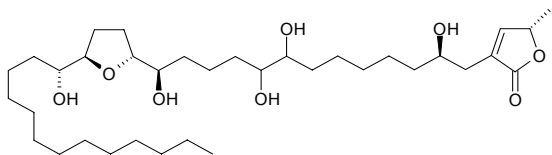
**1310 cis-Annomuricin**

[172586-13-9] $C_{35}H_{64}O_7$ (596.90). White amorphous powder, mp 77°C, $[\alpha]_D^{25} = 10^\circ$ ($c = 17$, chloroform). **Pharm:** Cytotoxic (BST, $LC_{50} = 2.3\mu g/mL$, PD, $\ln Rt = 28\%$, A549 *in vitro*, $IC_{50} = 0.23\mu g/mL$, MCF7 *in vitro*, $IC_{50} = 1.18\mu g/mL$, HT29 *in vitro*, $IC_{50} = 1.0 \times 10^{-8}\mu g/mL$). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1062.

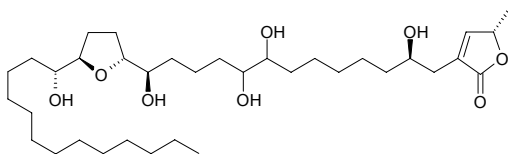


1311 Annomuricin A

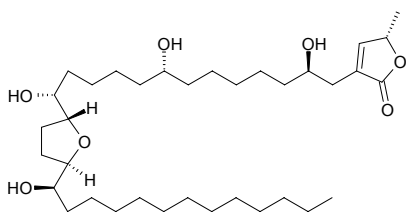
[167172-78-3] C₃₅H₆₄O₈ (612.90). White amorphous powder, $[\alpha]_D^{22} = -6.4^\circ$ ($c = 0.0025$). **Pharm:** Cytotoxic (A549 *in vitro*, ED₅₀ = 0.33 μg/mL; BST, LC₅₀ = 0.625 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1047.

**1312 Annomuricin B**

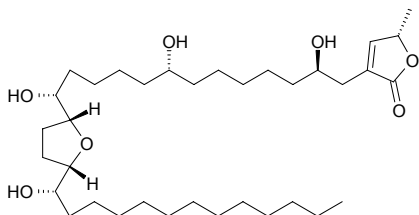
[167355-37-5] C₃₅H₆₄O₈ (612.89). White amorphous powder, $[\alpha]_D^{22} = -11.7^\circ$ ($c = 0.0064$). **Pharm:** Cytotoxic (A549, ED₅₀ = 0.159 μg/mL, HT29 *in vitro*, ED₅₀ = 0.435 μg/mL, BST *in vitro*, LC₅₀ = 0.687 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1047.

**1313 Annonacin**

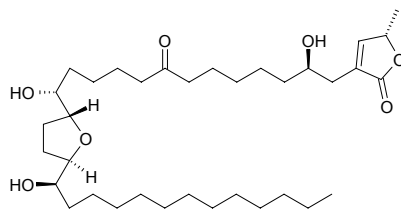
[111035-65-5] C₃₅H₆₄O₇ (596.90). White amorphous solid. **Pharm:** Antineoplastic (A549, IC₅₀ = 0.23 μg/mL, MCF7, IC₅₀ = 1.18 μg/mL, HT29, IC₅₀ = 1.0 × 10⁻⁸ μg/mL); cytotoxic (BST, LC₅₀ = 2.3 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.105% dw)^[4617], JIN PING GE NA XIANG *Goniotalamus leiocarpus*, SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.052%)^[4775]. **Ref:** 385, 420, 1062, 4617, 4775, 5035.

**1314 cis-Annonacin**

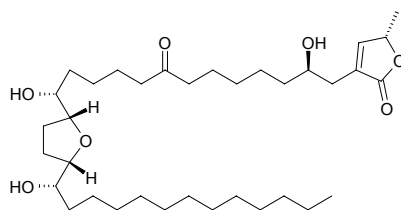
C₃₅H₆₄O₇ (596.90). **Source:** SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.0011%)^[4775]. **Ref:** 4775, 5035.

**1315 Annonacin-10-one**

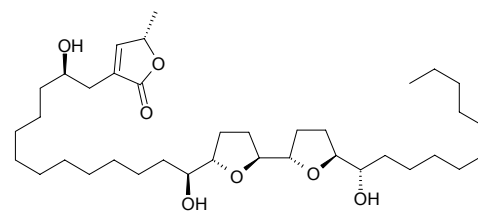
Annonacinone C₃₅H₆₂O₇ (594.88). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.02% dw)^[4617], SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 4617, 5035.

**1316 cis-Annonacin-10-one**

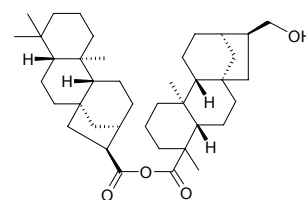
cis-Annonacinone C₃₅H₆₂O₇ (594.88). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**1317 Annonareticin**

Asimicin C₃₇H₆₆O₇ (622.93). White crystals, mp 72–73°C, $[\alpha]_D^{25} = +22.3^\circ$ ($c = 0.1$, MeOH). **Pharm:** Mitochondrial complex I selective inhibitor (NADH oxidase IC₅₀ = (0.33 ± 0.03) nmol/L, $p < 0.001$, control Rotenone, IC₅₀ = (5.10 ± 0.09) nmol/L)^[5024]. **Source:** NIU XIN FAN LI ZHI *Annona reticulata*, MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 32, 5024.

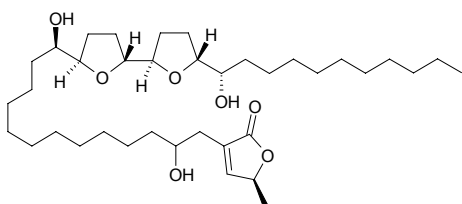
**1318 Annonabinide B**

C₄₀H₆₂O₄ (606.94). **Source:** YUAN HUA FAN LI ZHI *Annona glabra*. **Ref:** 2524.

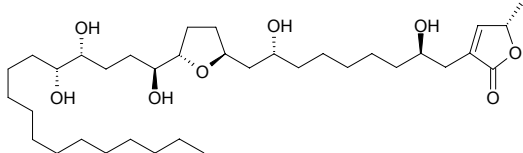


1319 Annonin VI

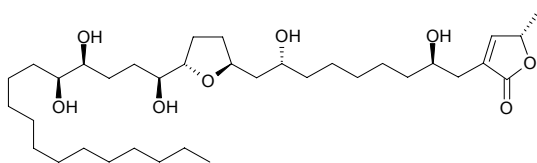
[129212-94-8] C₃₇H₆₆O₇ (622.93). Colorless solid, $[\alpha]_D^{25} = +15.3^\circ$ ($c = 0.4$, CH₂Cl₂). **Pharm:** Anthelmintic (*Caenorhabditis elegans*); cytotoxic (HeLa *in vitro*, ED₅₀ = 0.05 μg/mL); NADH oxidase inhibitor (ox heart, *in vitro*); glucose dehydrogenase inhibitor (*Bacillus coli*); pesticide. **Source:** FAN LI ZHI *Annona squamosa*. **Ref:** 900.

**1320 Annonentin A**

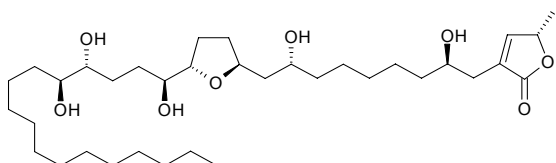
[184093-44-5] C₃₅H₆₄O₈ (612.89). White amorphous powder, $[\alpha]_D^{25} = +12^\circ$ ($c = 14$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, BST, LC₅₀ = 8.9 mg/L; A549, ED₅₀ = 0.171 μg/mL; MCF7, ED₅₀ = 17.93 μg/mL; HT29, ED₅₀ = 1.63 μg/mL; A498, ED₅₀ = 0.607 μg/mL; PC3, ED₅₀ = 1.14 μg/mL; PACA-2, ED₅₀ = 0.0358 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1058.

**1321 Annonentin B**

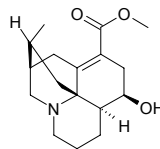
[184093-45-6] C₃₅H₆₄O₈ (612.89). White oil, $[\alpha]_D^{25} = +15^\circ$ ($c = 10$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, BST, LC₅₀ = 11.2 mg/L; A549, ED₅₀ = 0.0274 μg/mL; MCF7, ED₅₀ = 3.56 μg/mL; HT29, ED₅₀ = 1.64 μg/mL; A498, ED₅₀ = 0.379 μg/mL; PC3, ED₅₀ = 0.212 μg/mL; PACA-2, ED₅₀ = 0.162 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1058.

**1322 Annonentin C**

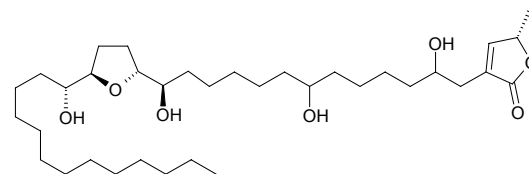
[184093-46-7] C₃₅H₆₄O₈ (612.89). White oil, $[\alpha]_D^{25} = 9^\circ$ ($c = 11$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, BST, LC₅₀ = 13.8 mg/L; A549, ED₅₀ = 0.0206 μg/mL; MCF7, ED₅₀ = 2.97 μg/mL; HT29, ED₅₀ = 1.24 μg/mL; A498, ED₅₀ = 0.258 μg/mL; PC3, ED₅₀ = 0.228 μg/mL; PACA-2, ED₅₀ = 0.428 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1058.

**1323 Annopodine**

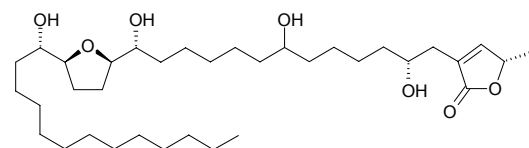
C₁₇H₂₅NO₃ (291.39). **Source:** DAN SUI SHI SONG *Lycopodium annotinum*. **Ref:** 660.

**1324 Annoreticuin**

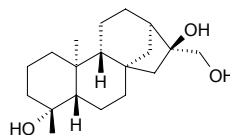
[142488-56-0] C₃₅H₆₄O₇ (596.90). Light yellow wax solid, mp 75–77°C. **Pharm:** Cytotoxic (*in vitro* HepG2, EC₅₀ = 0.0064 μg/mL; Hep3B, EC₅₀ = 2.45 μg/mL; control Doxorubicin, HepG2, EC₅₀ = 0.38 μg/mL, Hep3B, EC₅₀ = 0.36 μg/mL)^[5035]. **Source:** NIU XIN FAN LI ZHI *Annona reticulata*, SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 432, 5035.

**1325 cis-Annoreticuin**

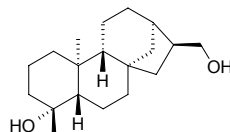
C₃₅H₆₄O₇ (596.90). Colorless waxy solid, $[\alpha]_D^{25} = +3.5^\circ$ ($c = 0.13$, CHCl₃). **Pharm:** Cytotoxic (*in vitro* HepG2, EC₅₀ = 0.0024 μg/mL, Hep3B, EC₅₀ = 1.98 μg/mL; control Doxorubicin, HepG2, EC₅₀ = 0.38 μg/mL, Hep3B, EC₅₀ = 0.36 μg/mL). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**1326 Annosquamosin B**

19-Nor-*ent*-kaurane-4 α ,16 β ,17-triol C₁₉H₃₂O₃ (308.47). **Pharm:** Platelet aggregation selected inhibitor (washed rabbit platelets, 200 μmol/L: 100 μmol/L AA induced, InRt = 8.7%; 10 μg/mL collagen induced, InRt = 21.1%; 1 ng/mL PAF induced, InRt = 8.5%; 0.05 U/mL thrombin induced, InRt = 1.6%). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00067%fw). **Ref:** 4654.

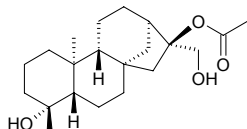
**1327 Annosquamosin C**

16 α -Hydro-17-hydroxy-19-nor-*ent*-kaurane-4 α -ol C₁₉H₃₂O₂ (292.47). White powder, mp 156–158°C, $[\alpha]_D^{26} = -47.6^\circ$ ($c = 0.03$, MeOH). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00033%fw). **Ref:** 4654.

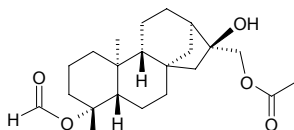


1328 Annosquamosin D

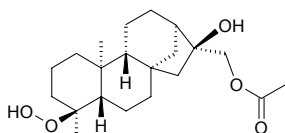
16 β -Acetoxy-17-hydroxy-19-nor-*ent*-kauran-4 α -ol C₂₁H₃₄O₄ (350.5). White powder, mp 169~171°C, [α]_D²⁶ = -147.0° (*c* = 0.02, MeOH). **Pharm:** Platelet aggregation inhibitor inactive (washed rabbit platelets, 200 μ mol/L: 100 μ mol/L AA induced, InRt = 4.9%; 10 μ g/mL collagen induced, InRt = 10.6%; 1ng/mL PAF induced, InRt = 9.3%; 0.05U/mL thrombin induced, InRt = 2.0%). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00047%fw). **Ref:** 4654.

**1329 Annosquamosin E**

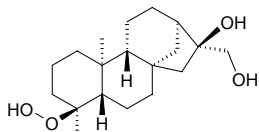
16 β -Hydroxy-17-acetoxy-19-nor-*ent*-kauran-4 α -formate C₂₂H₃₄O₅ (378.51). White powder, mp 172~174°C, [α]_D²⁶ = -26.8° (*c* = 0.05, MeOH). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00033%fw). **Ref:** 4654.

**1330 Annosquamosin F**

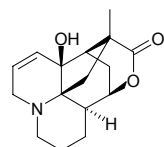
16 β -Hydroxy-17-acetoxy-18-nor-*ent*-kauran-4 β -hydroperoxide C₂₁H₃₄O₅ (366.5). White powder, mp 144~146°C, [α]_D²⁶ = -39.2° (*c* = 0.05, MeOH). **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00040%fw). **Ref:** 4654.

**1331 Annosquamosin G**

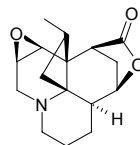
16 β ,17-Dihydroxy-18-nor-*ent*-kauran-4 β -hydroperoxide C₁₉H₃₂O₄ (324.46). White powder, mp 175~177°C, [α]_D²⁶ = -74.4° (*c* = 0.02, MeOH). **Source:** FAN LI ZHI *Annona squamosa* (stem, yield = 0.00027%fw). **Ref:** 4654.

**1332 Annotine**

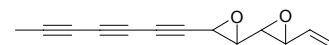
[5096-59-3] C₁₆H₂₁NO₃ (275.35). **Pharm:** Dermatitis suppressant (used in treatment of skin diseases, using source plants *Lycopodium* spp.). **Source:** DAN SUI SHI SONG *Lycopodium annotinum*. **Ref:** 658.

**1333 Annotinine**

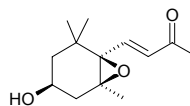
[559-49-9] C₁₆H₂₁NO₃ (275.35). Prismatic crystals (CHCl₃-MeOH), mp 232°C. **Pharm:** Uterine stimulant. **Source:** DAN SUI SHI SONG *Lycopodium annotinum*. **Ref:** 658, 661.

**1334 Annuadiepoxide**

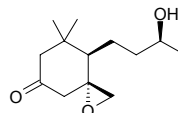
C₁₃H₁₀O₂ (198.22). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 660.

**1335 Annuionone D**

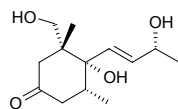
C₁₃H₂₀O₃ (224.30). Oil. **Source:** ZAI PEI XIANG RI KUI YE *Helianthus annuus* cv. **Ref:** 2370.

**1336 Annuionone E**

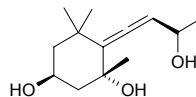
C₁₃H₂₂O₃ (226.32). Colorless oil, [α]_D²⁵ = +4.2° (*c* = 0.1, CH₃OH). **Source:** XIANG RI KUI YE *Helianthus annuus*. **Ref:** 1927.

**1337 Annuionone F**

(1*R*,5*R*,6*S*,9*R*)-3-Oxo-6,13-dihydroxy-5,6-dihydro- β -ionol C₁₃H₂₂O₄ (242.32). Colorless oil. **Source:** ZAI PEI XIANG RI KUI YE *Helianthus annuus* cv. (fresh leaf). **Ref:** 3881.

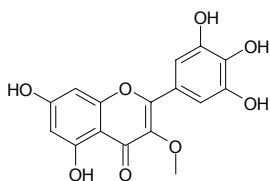
**1338 Annuionone G**

(3*R*,5*R*,7*R*)-3,5-Dihydroxy-5,6-dihydro-6,7-dehydro- β -ionol C₁₃H₂₂O₃ (226.32). Colorless oil, [α]_D²⁵ = -15.5° (*c* = 1.0, CHCl₃). **Source:** ZAI PEI XIANG RI KUI YE *Helianthus annuus* cv. (fresh leaf). **Ref:** 3881.

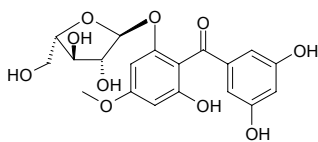


1339 Annulatin

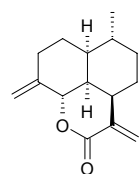
Myricetin-3-*O*-methyl ether C₁₆H₁₂O₈ (332.27). Yellow amorphous solid.
Source: *Goniotalamus thwaitesii* (aerial parts). Ref: 5096.

**1340 Annulatophenonoid**

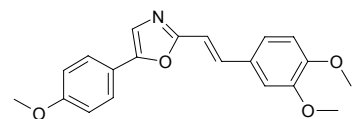
C₁₉H₂₀O₁₀ (408.37). Yellow crystalloid mass (H₂O-EtOH), mp 162~164°C,
 [α]_D²⁰ = -79.52° (c = 1.0550, MeOH). Source: HUAN ZHUANG JIN SI TAO
Hypericum annulatum. Ref: 2009.

**1341 Annulide**

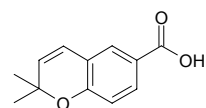
C₁₅H₂₀O₂ (232.33). Source: HUANG HUA HAO *Artemisia annua* (aerial
 parts). Ref: 660, 5224.

**1342 Annuloline**

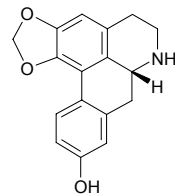
[3988-51-0] C₂₀H₁₉NO₄ (337.38). Pharm: Antifungal. Source: DUO HUA
 HEI MAI CAO *Lolium multiflorum*. Ref: 658.

**1343 Anofinic acid**

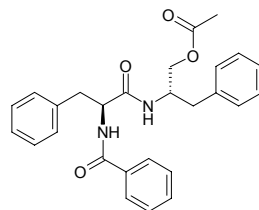
2,2-Dimethyl-2*H*-1-chromene-6-carboxylic acid [34818-56-9] C₁₂H₁₂O₃
 (204.23). Colorless columnar, acicular crystals (80% alcohol), mp 155~158°C,
 [α]_D²⁰ = +15° (c = 0.8, alcohol). Pharm: Antifungal (*Cladosporium*
cucumerinum, IC₅₀ = 50 μg/mL). Source: BAI HUA LONG DAN *Gentiana*
algida, GOU ZHUANG HU JIAO *Piper aduncum*. Ref: 704, 900, 2323.

**1344 Anolobine**

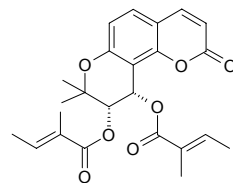
[641-17-8] C₁₇H₁₅NO₃ (281.31). mp 262°C. Source: YE HE HUA *Magnolia*
coco. Ref: 6.

**1345 Anomalamide**

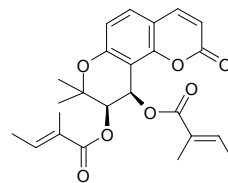
Lyciumamide [56121-42-7] C₂₇H₂₈N₂O₄ (444.54). Source: BO LUO MI
Artocarpus heterophyllus, E BU SHI CAO *Centipeda minima*, GOU QI GEN
Pi Lycium chinense, HUANG HUA HAO *Artemisia annua*, LIU JI NU
Artemisia anomala. Ref: 2, 660.

**1346 (+)-Anomalin**

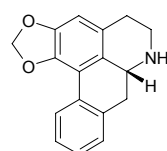
C₂₄H₂₆O₇ (426.47). mp 171~172°C. Source: LI JIANG QIAN HU
Peucedanum govanianum var. *bicolor*. Ref: 557.

**1347 Anomalin**

[4970-26-7] C₂₄H₂₆O₇ (426.47). mp 173~174°C. Source: HANG BAI ZHI
Angelica taiwaniana, XIA YE DANG GUI *Angelica anomala* (the compound
 was isolated from the plant by Qingzhi Qin et al. in 1960)^[5505]. Ref: 6, 5505.

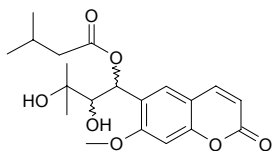
**1348 Anonaine**

(-)-Anonaine [1862-41-5] C₁₇H₁₅NO₂ (265.31). mp 122~123°C. Pharm:
 Antibacterial; insecticidal. Source: NIU XIN FAN LI ZHI *Annona reticulata*,
 LIAN ZI *Nelumbo nucifera*, FAN LI ZHI *Annona squamosa*, HE YE *Nelumbo*
nucifera, HOU PO *Magnolia officinalis*, YOU GOU YING ZHAO *Artabotrys*
uncinatus (root, stem, leaf)^[3083]. Ref: 6, 221, 625, 658, 3083.

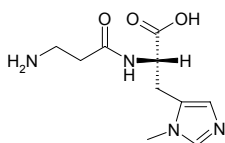


1349 Anpubesol

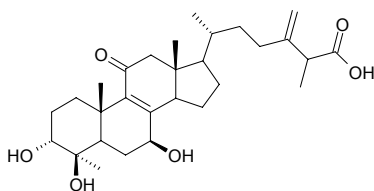
[110064-48-7] C₂₀H₂₆O₇ (378.43). Colorless and transparent, [α]_D²⁰ = -72.5° (c = 0.15, chloroform). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 79.

**1350 Anserine**

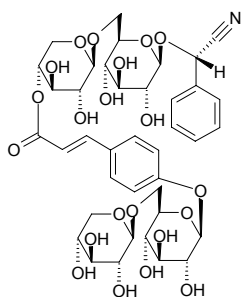
[584-85-0] C₁₀H₁₆N₄O₃ (240.26). mp 238-239°C. Source: JI NAO *Gallus gallus domesticus*, XIA TIAN GAO *Bos taurus domesticus*, MAN LI YU *Anguilla japonica*. Ref: 6.

**1351 Antcin K**

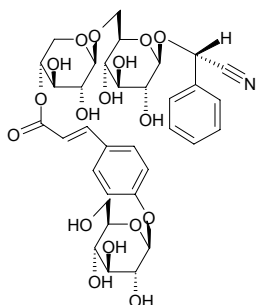
3 α ,4 β ,7 β -Trihydroxy-4 α -methylergosta-8,24(28)-dien-11-on-26-icoic acid C₂₉H₄₄O₆ (488.67). Source: *Antrodia camphorata* (fruit body). Ref: 4960.

**1352 Anthemis glycoside A**

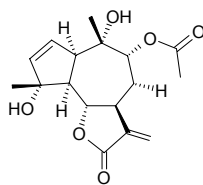
C₃₉H₄₉NO₂₁ (867.82). Pharm: Toxin. Source: GAO CHUN HUANG JU *Anthemis altissima*. Ref: 658.

**1353 Anthemis glycoside B**

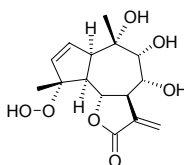
C₃₄H₄₁NO₁₇ (735.70). Pharm: Toxin. Source: GAO CHUN HUANG JU *Anthemis altissima*. Ref: 658.

**1354 Anthemolide A**

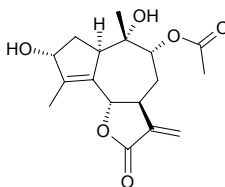
C₁₇H₂₂O₆ (322.36). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**1355 Anthemolide B**

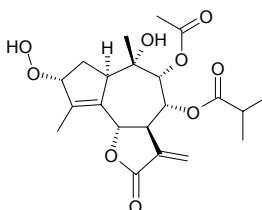
C₁₅H₂₀O₇ (312.32). colorless solid. Source: MENG DA NA CHUN HUANG JU *Anthemis cretica* ssp. *cretica* [Syn. *Anthemis montana*]. Ref: 1893.

**1356 Anthemolide C**

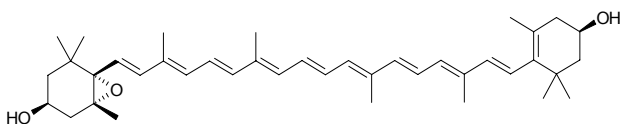
C₁₇H₂₂O₆ (322.36). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**1357 Anthemolide F**

C₂₁H₂₈O₉ (424.45). Amorphous solid, [α]_D²⁵ = +97° (c = 0.33, MeOH). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

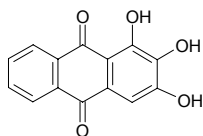
**1358 Antheraxanthin**

C₄₀H₅₆O₃ (584.89). mp (*cis*) 110°C, (*trans*) 207°C. Pharm: Yellow pigment. Source: DAO CAO *Oryza sativa*, FAN MU GUA *Carica papaya*, HAN LIAN HUA *Tropaeolum majus*, HONG HAI JIAO *Capsicum annuum*, HUA LING CAO *Eschscholzia californica*, JING MI *Oryza sativa*, JUAN DAN *Lilium tigrinum* [Syn. *Lilium lancifolium*], SHE XIANG BAI HE *Lilium longiflorum*, *Rosa* sp. Ref: 6, 660.

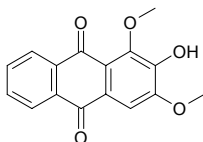


1359 Anthragallol

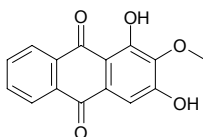
[602-64-2] $C_{14}H_8O_5$ (256.22). mp 312–313°C. **Pharm:** Cytotoxic (macrophage, T lymphocyte and B lymphocyte in high dose); immunosuppressant (*in vitro*). **Source:** TU LIAN QIAO *Hymenodictyon excelsum*. **Ref:** 6, 658.

**1360 Anthragallol-1,3-dimethylether**

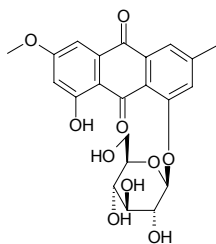
1,3-Dimethoxy-2-hydroxyanthraquinone $C_{16}H_{12}O_5$ (284.27). **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), HAI BA JI *Morinda citrifolia* (fruit). **Ref:** 4369, 4542.

**1361 Anthragallol-2-methylether**

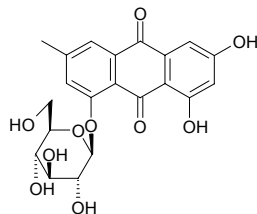
$C_{15}H_{10}O_5$ (270.24). **Source:** HAI BA JI *Morinda citrifolia* (fruit). **Ref:** 4542.

**1362 Anthraglycoside A**

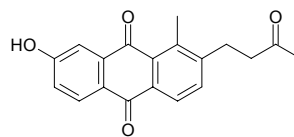
Physcion-8-*O*- β -*D*-glucopyranoside $C_{22}H_{22}O_{10}$ (446.41). mp 230–232°C. **Source:** HU ZHANG *Polygonum cuspidatum*. **Ref:** 6.

**1363 Anthraglycoside B**

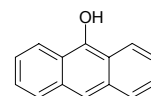
Emodin-8-*O*- β -*D*-glucopyranoside $C_{21}H_{20}O_{10}$ (432.39). mp 190–191°C. **Pharm:** Antioxidant inactive (DPPH radical scavenger, $IC_{50} > 100\mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = 3.9\mu\text{g/mL}$)^[4711]. **Source:** DA HUANG *Rheum officinale*, HU ZHANG *Polygonum cuspidatum*, ZANG BIAN DA HUANG *Rheum emodi* [*Syn. Rheum australe*] (root: yield = 1.02%dw). **Ref:** 2, 6, 4186, 4711.

**1364 Anthrakunthone**

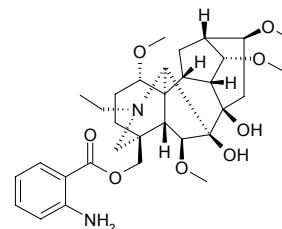
$C_{19}H_{16}O_4$ (308.34). Yellow oil. **Pharm:** Antimalarial (antiplasmodial); toxin (endothelial cell line ECV-304). **Source:** WU GAN DA YU YE QIU *Stereospermum kunthianum*. **Ref:** 2019.

**1365 Anthranol**

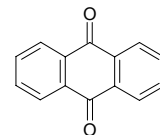
9-Anthracenol [529-86-2] $C_{14}H_{10}O$ (194.24). **Source:** LU HUI *Aloe vera* [*Syn. Aloe barbadensis*]. **Ref:** 2.

**1366 Anthranoylcoctonine**

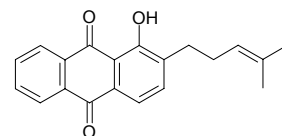
$C_{32}H_{46}N_2O_8$ (586.73). Colorless trapezoid crystals (cyclohexane-acetone). **Pharm:** Neuromuscular blocker (mus); toxin (animal, breathing faintness, palsy, convulsion until death). **Source:** BA BI CUI QUE HUA *Delphinium barbeyi*, E MEI CUI QUE HUA *Delphinium omeiense*, GUA YE WU TOUTOU *Aconitum hemsleyanum*, HEI SHUI CUI QUE HUA BIAN ZHONG *Delphinium potaninii* var. *juifengshanense* (root), XI MA XUAN FU HUA *Inula royleana*. **Ref:** 658, 2190, 2208, 4227.

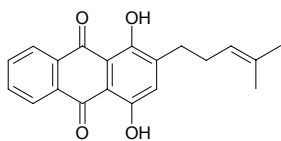
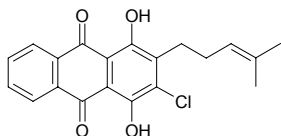
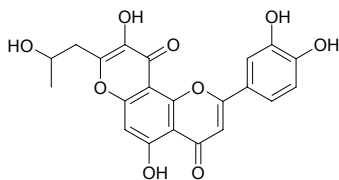
**1367 Anthraquinone**

9,10-Anthracenedione [84-65-1] $C_{14}H_8O_2$ (208.22). mp 286°C, bp 379–381°C (sub). **Pharm:** Anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (P_{388} , $ED_{50} = 8.29\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.58\mu\text{g/mL}$; A549, $ED_{50} = 37.33\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.073\mu\text{g/mL}$; HT29, $ED_{50} = 20.81\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.076\mu\text{g/mL}$)^[5421]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem), HU ZHANG *Polygonum cuspidatum*, LUO BU MA *Apocynum venetum*. **Ref:** 6, 4415, 5421.

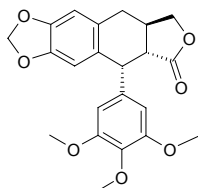
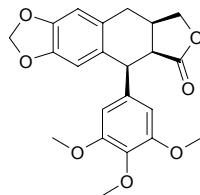
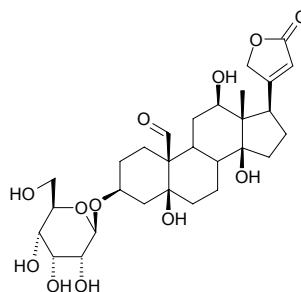
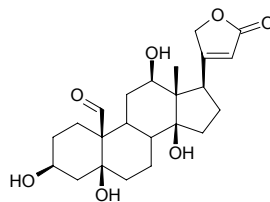
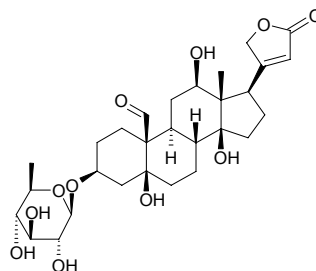
**1368 Anthrasesamone A**

1-Hydroxy-2-(4-methylpent-3-enyl)anthraquinone $C_{20}H_{18}O_3$ (306.36). Yellow solid. **Source:** HU MA GEN *Sesamum indicum*. **Ref:** 3465.



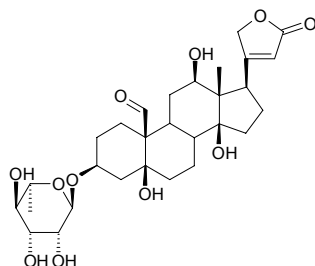
1369 Anthrasesamone B1,4-Dihydroxy-2-(4-methylpent-3-enyl)-anthraquinone C₂₀H₁₈O₄ (322.36).Red solid. Source: HU MA GEN *Sesamum indicum*. Ref: 3465.**1370 Anthrasesamone C**2-Chloro-1,4-dihydroxy-3-(4-methylpent-3-enyl)anthraquinone C₂₀H₁₇ClO₄(356.81). Red solid. Source: HU MA GEN *Sesamum indicum*. Ref: 3465.**1371 Anthraxin**C₂₁H₁₆O₉ (412.36). mp 336°C. Source: JIN CAO *Arthraxon hispidus*. Ref: 6.**1372 Anthricin**Deoxypodophyllotoxin [19186-35-7] C₂₂H₂₂O₇ (398.42). Colorless prismatic crystals (absolute ethanol), mp 166~169°C, [α]_D²⁷ = (-113.9±1.6)^o (c = 0.985, chloroform); mp 162~164°C (methanol), [α]_D = -102.5^o (c = 0.20, CHCl₃).

Pharm: Cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells)^[5038]; antineoplastic (P₃₈₈); antimetabolic; antiviral (HSV-1, measles virus); cytotoxic (KB, ED₅₀ ≤ 20µg/mL); antihepatotoxin (mus, sc, 10mg/kg, inhibits the rise of GPT in serum caused by CCl₄). Source: BEI MEI YA BAI *Thuja occidentalis*, CHA ZI YUAN BAI *Juniperus sabina*, CHENG LIU YE YUAN BAI *Juniperus sabina* var. *tamariscifolia*, E SHEN *Anthriscus sylvestris*, LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], LUO HAN BAI *Thujopsis dolobrata*, NAN MEI ZHOU GUI *Juniperus silicicola*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (rhizome: mean content of 2 origins = 0.265%^[5508]), XIAO YE LIE LAN *Bursera microphylla*, *Libocedrus* sp. Ref: 4, 6, 658, 661, 3543, 5038, 5499, 5508.

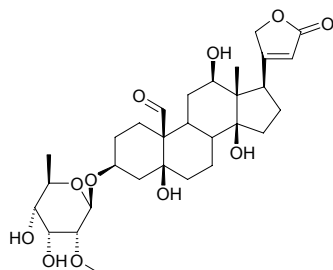
**1373 Anthricin isomer**C₂₂H₂₂O₇ (398.42). Pharm: Cytotoxic (soft agar transformation assay with JB6 cells); cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells). Source: BEI MEI YA BAI *Thuja occidentalis*. Ref: 5038.**1374 Antialloside**C₂₉H₄₂O₁₂ (582.65). Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 660.**1375 Antiarigenin**C₂₃H₃₂O₇ (420.51). Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 660.**1376 α-Antiarin**[23605-05-2] C₂₉H₄₂O₁₁ (566.65). Pharm: LD₅₀ (cat, iv) = 0.116mg/kg. Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 658.

1377 β -Antiarin

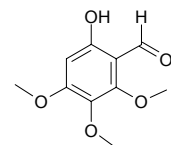
[639-13-4] $C_{29}H_{42}O_{11}$ (566.65). Source: FEI ZHOU JIAN XUE FENG HOU *Antiaris Africana*, GANG GUO JIAN XUE FENG HOU *Antiaris welwitschii*, JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 660, 1521.

**1378 Antiarjavoside**

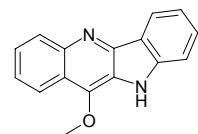
$C_{30}H_{44}O_{11}$ (580.68). Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 660.

**1379 Antiarolaldehyde**

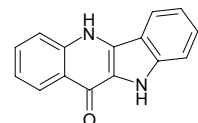
$C_{10}H_{12}O_5$ (212.20). mp 60–61°C. Pharm: Antifungal (*Trichophyton interdigitale*) Source: HONG HUA PI *Betula platyphylla* var. *japonica*. Ref: 661.

**1380 Anticancer Alkaloid PMV70P691-050**

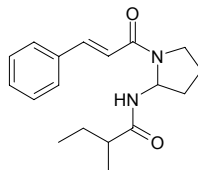
$C_{16}H_{12}N_2O$ (248.29). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: HUANG HUA REN *Sida acuta*. Ref: 5038.

**1381 Anticancer Alkaloid PMV70P691-051**

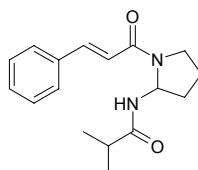
$C_{15}H_{10}N_2O$ (234.26). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: HUANG HUA REN *Sida acuta*. Ref: 5038.

**1382 Anticancer Amide PMV70P691-052**

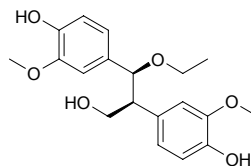
$C_{18}H_{24}N_2O_2$ (300.40). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: *Aglaia ponapensis*. Ref: 5038.

**1383 Anticancer Amide PMV70P691-053**

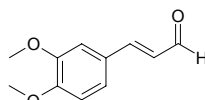
$C_{17}H_{22}N_2O_2$ (286.38). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: *Aglaia ponapensis*. Ref: 5038.

**1384 Anticancer Benzenoid PMV70P691-004**

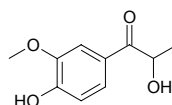
$C_{10}H_{12}O_6$ (348.40). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: *Couepia ulei*. Ref: 5038.

**1385 Anticancer Benzenoid PMV70P691-57**

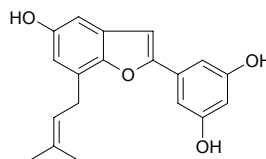
$C_{11}H_{12}O_3$ (192.22). Pharm: Cytotoxic (soft agar transformation assay with JB6 cells). Source: WU ZHU MAI DA JI *Euphorbia quinquecostata*. Ref: 5038.

**1386 Anticancer Benzenoid PMV70P691-58**

$C_{10}H_{12}O_4$ (196.20). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). Source: HUANG HUA REN *Sida acuta*. Ref: 5038.

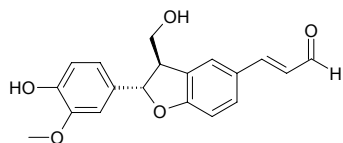
**1387 Anticancer Benzofuran PMV70P691-005**

$C_{19}H_{18}O_4$ (310.35). Pharm: Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). Source: DA DA HE MIAN BAO GUO *Artocarpus dadah*. Ref: 5038.

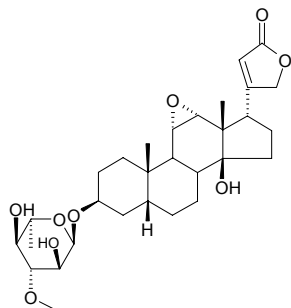


1388 Anticancer Benzofuran PMV70P691-64

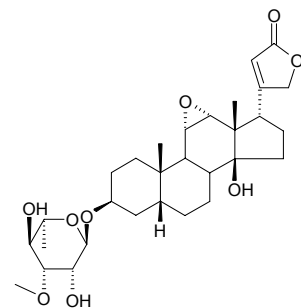
$C_{19}H_{18}O_5$ (326.35). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** XIANG DOU *Dipteryx odorata* (callus and root). **Ref:** 5038.

**1389 Anticancer Cardiac Glycoside PMV70P691-007**

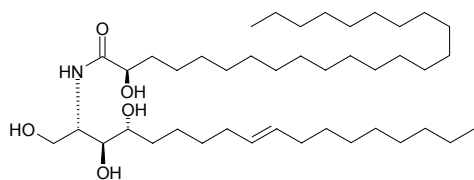
$C_{30}H_{44}O_9$ (548.68). **Pharm:** Cytotoxic (antiproliferative hmn colon cancer assay); cytotoxic (Ishikawa anti-E2 bioassay). **Source:** NIU XIN QIE ZI *Cerbera manghas*. **Ref:** 5038.

**1390 Anticancer Cardiac Glycoside PMV70P691-008**

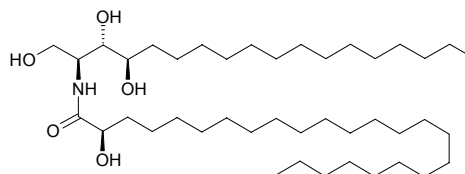
$C_{30}H_{44}O_9$ (548.68). **Pharm:** Cytotoxic (antiproliferative hmn colon cancer assay); cytotoxic (Ishikawa anti-E2 bioassay). **Source:** NIU XIN QIE ZI *Cerbera manghas*. **Ref:** 5038.

**1391 Anticancer Ceramide PMV70P691-009**

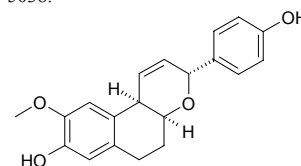
$C_{42}H_{83}NO_5$ (682.13). **Pharm:** Cytotoxic (soft agar transformation assay with JB6 cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1392 Anticancer Ceramide PMV70P691-69**

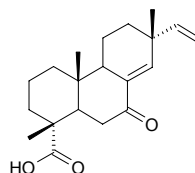
$C_{42}H_{85}NO_5$ (684.15). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1393 Anticancer Diarylheptanoid PMV70P691-010**

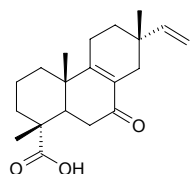
$C_{20}H_{20}O_4$ (324.38). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG *Musa x paradisiaca* cultivar. **Ref:** 5038.

**1394 Anticancer Diterpenoid PMV70P691-011**

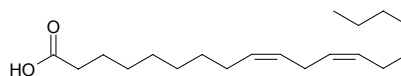
$C_{20}H_{28}O_3$ (316.44). **Pharm:** Cytotoxic (soft agar transformation assay with JB6 cells); cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells). **Source:** BEI MEI YA BAI *Thuja occidentalis*. **Ref:** 5038.

**1395 Anticancer Diterpenoid PMV70P691-74**

$C_{20}H_{28}O_3$ (316.44). **Pharm:** Cytotoxic (soft agar transformation assay with JB6 cells); cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells). **Source:** BEI MEI YA BAI *Thuja occidentalis*. **Ref:** 5038.

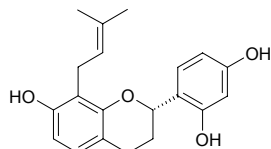
**1396 Anticancer Fatty acid PMV70P691-75**

$C_{19}H_{34}O_2$ (298.48). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). **Source:** SHI DIAO BAI *Asparagus officinalis*. **Ref:** 5038.

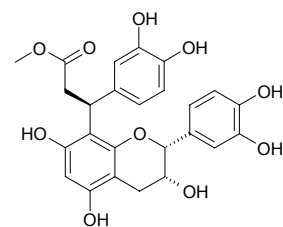


1397 Anticancer Flavonoid PMV70P691-013

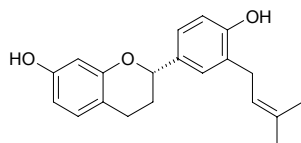
$C_{20}H_{22}O_4$ (326.40). **Pharm:** Cytotoxic (estrogen receptor-binding α assay); cytotoxic (estrogen receptor-binding β assay); cytotoxic (cyclooxygenase-1 inhibitor). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 5038.

**1398 Anticancer Flavonoid PMV70P691-014**

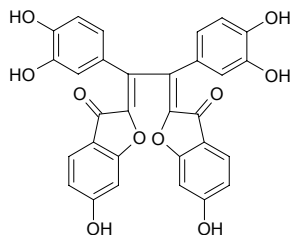
$C_{25}H_{24}O_{10}$ (484.46). **Pharm:** Cytotoxic (cytochrome C antioxidant assay). **Source:** JIAN RUI MAO CHA *Antirhea acutata*. **Ref:** 5038.

**1399 Anticancer Flavonoid PMV70P691-015**

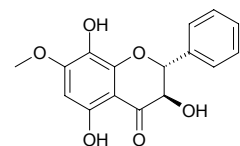
$C_{20}H_{22}O_3$ (310.40). **Pharm:** Cytotoxic (antiproliferative, hmn breast cancer cells). **Source:** HUANG LU *Cotinus coggygia*. **Ref:** 5038.

**1400 Anticancer Flavonoid PMV70P691-018**

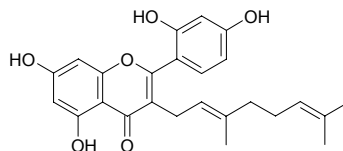
$C_{30}H_{18}O_{10}$ (538.47). **Pharm:** Cytotoxic (antioxidant assay). **Source:** HUANG LU *Cotinus coggygia*. **Ref:** 5038.

**1401 Anticancer Flavonoid PMV70P691-022**

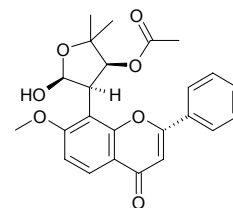
$C_{16}H_{14}O_6$ (302.29). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** YA MAI JIA YING TAO *Muntingia calabura*. **Ref:** 5038.

**1402 Anticancer Flavonoid PMV70P691-024**

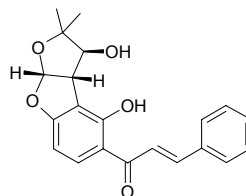
Anticancer Flavonoid PMV70P691-112 $C_{25}H_{26}O_6$ (422.48). **Pharm:** Cytotoxic (aromatase inhibitor). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 5038.

**1403 Anticancer Flavonoid PMV70P691-025**

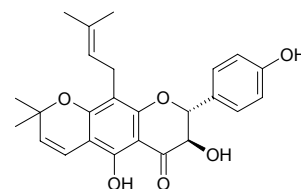
$C_{24}H_{24}O_7$ (424.45). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells). **Source:** HUI YE *Tephrosia purpurea*. **Ref:** 5038.

**1404 Anticancer Flavonoid PMV70P691-026**

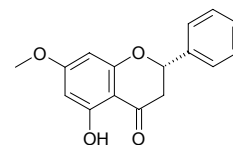
$C_{21}H_{20}O_5$ (352.39). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells). **Source:** HUI YE *Tephrosia purpurea*. **Ref:** 5038.

**1405 Anticancer Flavonoid PMV70P691-100**

$C_{25}H_{26}O_6$ (422.48). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** ZHEN YE XUE TONG *Macaranga conifera*. **Ref:** 5038.

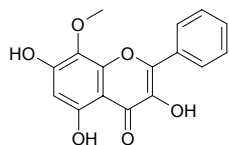
**1406 Anticancer Flavonoid PMV70P691-101**

$C_{16}H_{14}O_4$ (270.29). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells). **Source:** YA MAI JIA YING TAO *Muntingia calabura*. **Ref:** 5038.

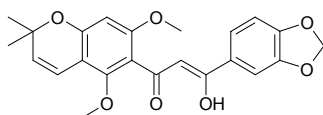


1407 Anticancer Flavonoid PMV70P691-103

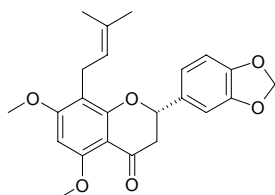
$C_{16}H_{12}O_6$ (300.27). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** YA MAI JIA YING TAO *Muntingia calabura*. **Ref:** 5038.

**1408 Anticancer Flavonoid PMV70P691-105**

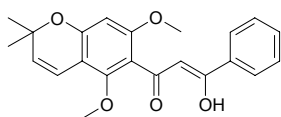
$C_{23}H_{22}O_7$ (410.43). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SHUI LIU DOU *Pongamia pinnata*. **Ref:** 5038.

**1409 Anticancer Flavonoid PMV70P691-106**

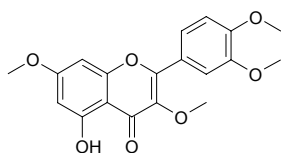
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SHUI LIU DOU *Pongamia pinnata*. **Ref:** 5038.

**1410 Anticancer Flavonoid PMV70P691-107**

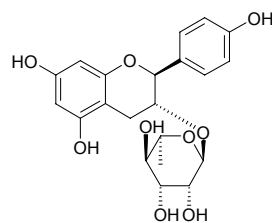
$C_{22}H_{22}O_5$ (366.42). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SHUI LIU DOU *Pongamia pinnata*. **Ref:** 5038.

**1411 Anticancer Flavonoid PMV70P691-114**

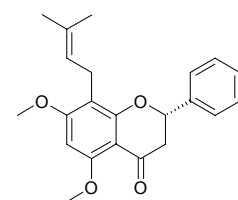
$C_{19}H_{18}O_7$ (358.35). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SAN LIE XUE TONG *Macaranga triloba*. **Ref:** 5038.

**1412 Anticancer Flavonoid PMV70P691-77**

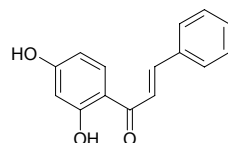
$C_{21}H_{24}O_9$ (420.42). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

**1413 Anticancer Flavonoid PMV70P691-82**

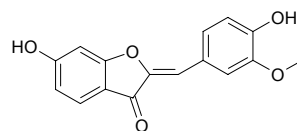
$C_{22}H_{24}O_4$ (352.43). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SHUI LIU DOU *Pongamia pinnata*. **Ref:** 5038.

**1414 Anticancer Flavonoid PMV70P691-84**

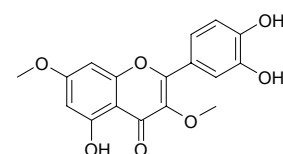
$C_{15}H_{12}O_3$ (240.26). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** YA MAI JIA YING TAO *Muntingia calabura*. **Ref:** 5038.

**1415 Anticancer Flavonoid PMV70P691-85**

$C_{16}H_{12}O_5$ (284.27). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** XIANG DOU *Dipteryx odorata* (callus and root). **Ref:** 5038.

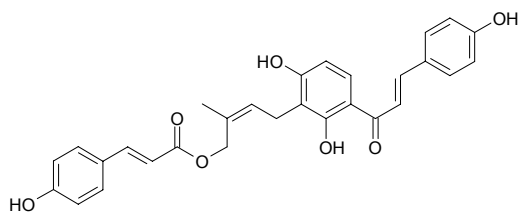
**1416 Anticancer Flavonoid PMV70P691-87**

$C_{17}H_{14}O_7$ (330.30). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** SAN LIE XUE TONG *Macaranga triloba*. **Ref:** 5038.

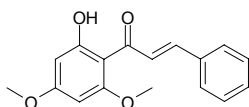


1417 Anticancer Flavonoid PMV70P691-91

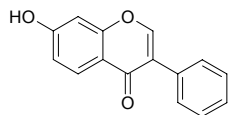
$C_{29}H_{26}O_7$ (486.53). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

**1418 Anticancer Flavonoid PMV70P691-93**

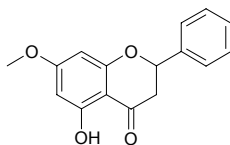
$C_{17}H_{16}O_4$ (284.31). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Renalmia nicolaioides*. **Ref:** 5038.

**1419 Anticancer Flavonoid PMV70P691-94**

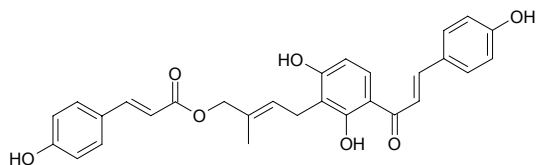
$C_{15}H_{10}O_3$ (238.25). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** YA MAI JIA YING TAO *Muntingia calabura*. **Ref:** 5038.

**1420 Anticancer Flavonoid PMV70P691-95**

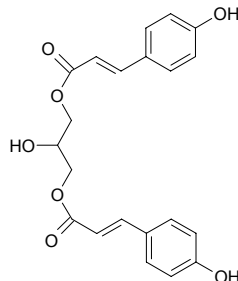
$C_{16}H_{14}O_4$ (270.29). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Renalmia nicolaioides*. **Ref:** 5038.

**1421 Anticancer Flavonoid PMV70P691-97**

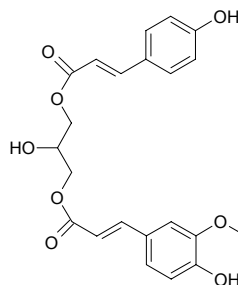
$C_{29}H_{26}O_7$ (486.53). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

**1422 Anticancer Glycerol Ester PMV70P691-117**

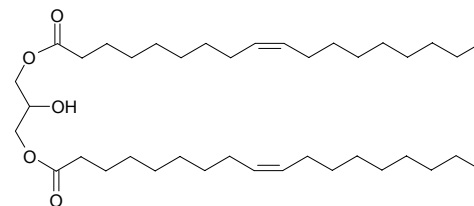
$C_{21}H_{20}O_7$ (384.39). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** SHI DIAO BAI *Asparagus officinalis*. **Ref:** 5038.

**1423 Anticancer Glycerol Ester PMV70P691-118**

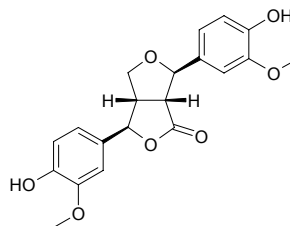
$C_{22}H_{22}O_8$ (414.42). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** SHI DIAO BAI *Asparagus officinalis*. **Ref:** 5038.

**1424 Anticancer Glycerol Ester PMV70P691-119**

$C_{39}H_{72}O_5$ (621.01). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 5038.

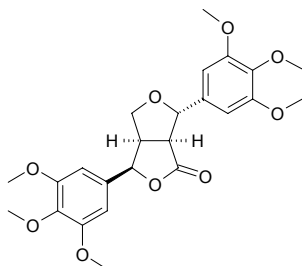
**1425 Anticancer Lignan PMV70P691-124**

$C_{20}H_{20}O_7$ (372.38). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** HUANG HUA REN *Sida acuta*. **Ref:** 5038.

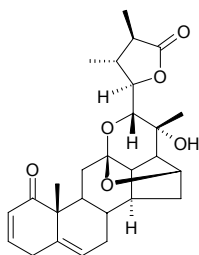


1426 Anticancer Lignan PMV70P691-126

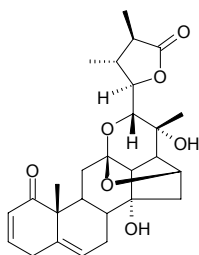
$C_{24}H_{28}O_9$ (460.49). **Pharm:** Cytotoxic (soft agar transformation assay with JB6 cells). **Source:** LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). **Ref:** 5038.

**1427 Anticancer Norwithanolide PMV70P691-029**

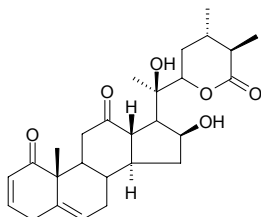
$C_{27}H_{34}O_6$ (454.57). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1428 Anticancer Norwithanolide PMV70P691-030**

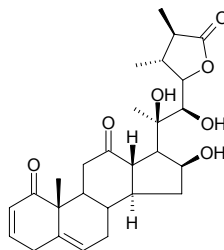
$C_{27}H_{34}O_7$ (470.57). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells); cytotoxic (soft agar transformation assay with JB6 cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1429 Anticancer Norwithanolide PMV70P691-031**

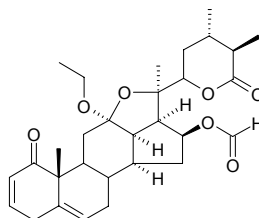
$C_{27}H_{36}O_6$ (456.58). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells); cytotoxic (soft agar transformation assay with JB6 cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1430 Anticancer Norwithanolide PMV70P691-032**

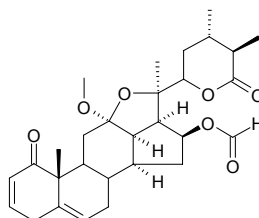
$C_{27}H_{36}O_7$ (472.58). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1431 Anticancer Norwithanolide PMV70P691-033**

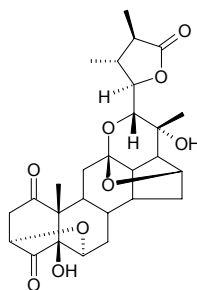
$C_{30}H_{40}O_7$ (512.65). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1432 Anticancer Norwithanolide PMV70P691-034**

$C_{29}H_{38}O_7$ (498.62). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

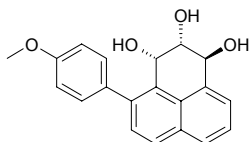
**1433 Anticancer Norwithanolide PMV70P691-035**

$C_{27}H_{34}O_9$ (502.57). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells); cytotoxic (soft agar transformation assay with JB6 cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

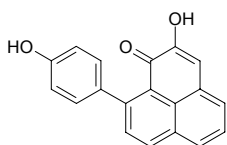


1434 Anticancer Phenylphenalone PMV70P691-129

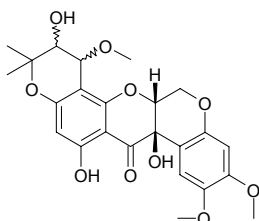
$C_{20}H_{18}O_4$ (322.36). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG *Musa x paradisiaca* cultivar. **Ref:** 5038.

**1435 Anticancer Phenylphenalone PMV70P691-130**

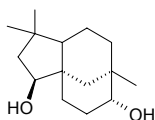
$C_{19}H_{12}O_3$ (288.31). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG *Musa x paradisiaca* cultivar. **Ref:** 5038.

**1436 Anticancer Rotenoid PMV70P691-036**

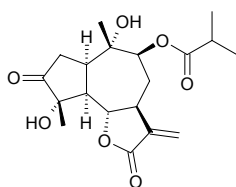
$C_{24}H_{26}O_{10}$ (474.47). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** DU HUI MAO DOU *Tephrosia toxicaria*. **Ref:** 5038.

**1437 Anticancer Sesquiterpene PMV70P691-132**

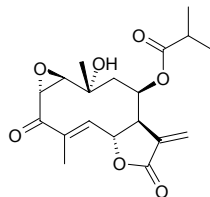
$C_{15}H_{26}O_2$ (238.37). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor). **Source:** SAN LIE XUE TONG *Macaranga triloba*. **Ref:** 5038.

**1438 Anticancer Sesquiterpene PMV70P691-134**

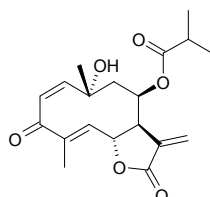
$C_{19}H_{26}O_7$ (366.41). **Pharm:** Cytotoxic (differentiation of HL-60 cells). **Source:** ZHONG BIN JU *Tithonia diversifolia*. **Ref:** 5038.

**1439 Anticancer Sesquiterpene PMV70P691-135**

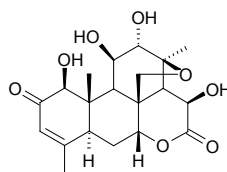
$C_{19}H_{24}O_7$ (364.40). **Pharm:** Cytotoxic (antiproliferative hmn colon cancer assay). **Source:** ZHONG BIN JU *Tithonia diversifolia*. **Ref:** 5038.

**1440 Anticancer Sesquiterpene PMV70P691-136**

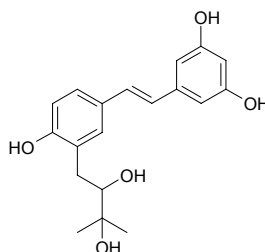
$C_{19}H_{24}O_6$ (348.46). **Pharm:** Cytotoxic (antiproliferative hmn colon cancer assay). **Source:** ZHONG BIN JU *Tithonia diversifolia*. **Ref:** 5038.

**1441 Anticancer Simaroubolide PMV70P691-137**

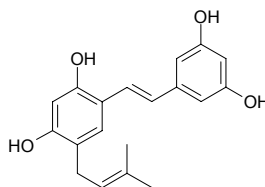
$C_{20}H_{26}O_8$ (394.43). **Pharm:** Cytotoxic (differentiation of HL-60 cells). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 5038.

**1442 Anticancer Stilbenoid PMV70P691-038**

$C_{19}H_{22}O_5$ (330.38). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

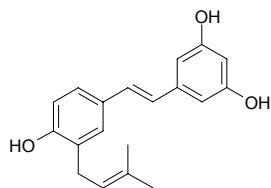
**1443 Anticancer Stilbenoid PMV70P691-039**

$C_{19}H_{20}O_4$ (312.37). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

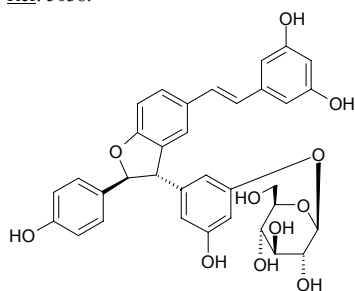


1444 Anticancer Stilbenoid PMV70P691-040

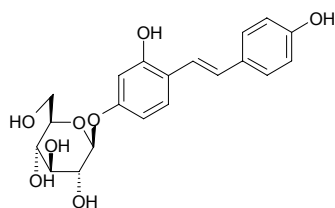
$C_{19}H_{20}O_3$ (296.37). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

**1445 Anticancer Stilbenoid PMV70P691-041**

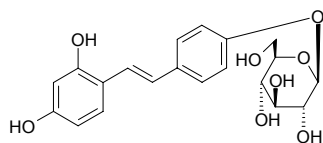
$C_{34}H_{32}O_{11}$ (616.63). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell culture). **Ref:** 5038.

**1446 Anticancer Stilbenoid PMV70P691-142**

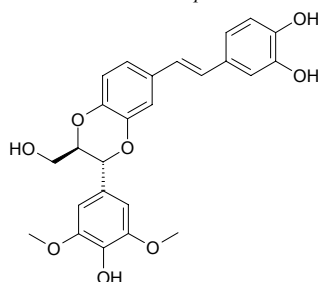
$C_{20}H_{22}O_8$ (390.39). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell culture). **Ref:** 5038.

**1447 Anticancer Stilbenoid PMV70P691-146**

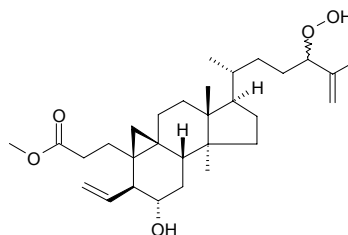
$C_{20}H_{22}O_8$ (390.39). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell culture). **Ref:** 5038.

**1448 Anticancer Stilbenolignan PMV70P691-042**

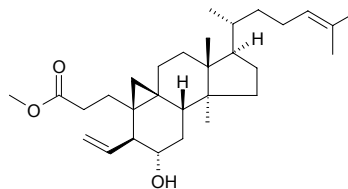
$C_{25}H_{24}O_8$ (452.47). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** CI JI NU ZONG LV *Aiphanes aculeata*. **Ref:** 5038.

**1449 Anticancer Triterpene PMV70P691-043**

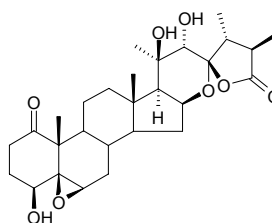
$C_{30}H_{48}O_5$ (488.71). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). **Source:** JIAN RUI MAO CHA *Antirhea acutata*. **Ref:** 5038.

**1450 Anticancer Triterpene PMV70P691-044**

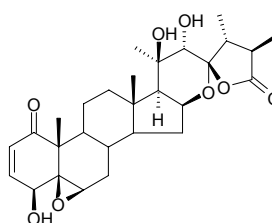
$C_{30}H_{48}O_3$ (456.72). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor); cytotoxic (cyclooxygenase-2 inhibitor). **Source:** JIAN RUI MAO CHA *Antirhea acutata*. **Ref:** 5038.

**1451 Anticancer Withanolide PMV70P691-045**

$C_{28}H_{40}O_8$ (504.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

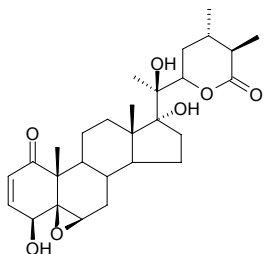
**1452 Anticancer Withanolide PMV70P691-046**

$C_{28}H_{38}O_8$ (502.61). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

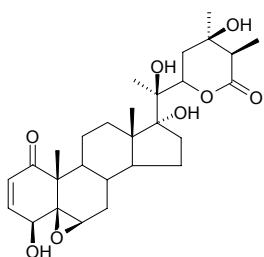


1453 Anticancer Withanolide PMV70P691-047

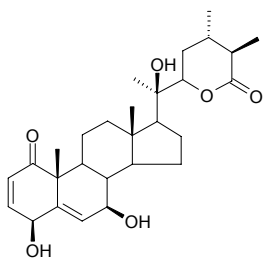
$C_{28}H_{40}O_7$ (488.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells); cytotoxic (mouse mammary organ culture assay). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1454 Anticancer Withanolide PMV70P691-048**

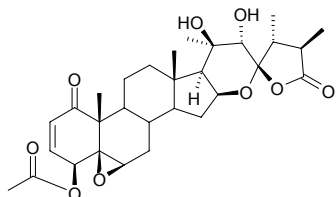
$C_{28}H_{40}O_8$ (504.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells); cytotoxic (mouse mammary organ culture assay). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1455 Anticancer Withanolide PMV70P691-049**

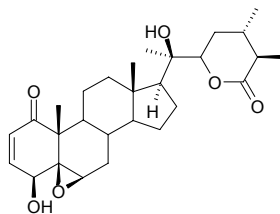
$C_{28}H_{40}O_6$ (472.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1456 Anticancer Withanolide PMV70P691-148**

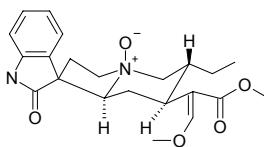
$C_{30}H_{40}O_9$ (544.65). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**1457 Anticancer Withanolide PMV70P691-149**

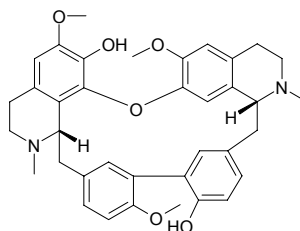
$C_{28}H_{40}O_6$ (472.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** *Deprea subtriflora*. **Ref:** 5038.

**1458 Anti-isorhynchophylline N-oxide**

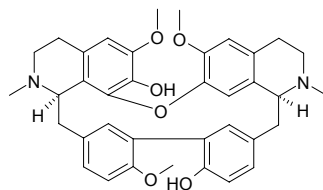
$C_{22}H_{28}N_2O_5$ (400.48). **Source:** FENG XIANG SHU YE *Cephalanthus occidentalis*. **Ref:** 6.

**1459 (+)-Antioquine**

$C_{37}H_{40}N_2O_6$ (608.74). **Pharm:** Mitochondrial respiratory chain complex I inhibitor ($IC_{50} > 10 \mu\text{mol/L}$, Rolliniastatin-1, $IC_{50} = (0.6 \pm 0.04) \text{nmol/L}$, Rotenone, $IC_{50} = (5.10 \pm 0.90) \text{nmol/L}$)^[4954]. **Source:** GE LUN BI YA MU BAN SHU *Xylopiya columbiana* (fruit). **Ref:** 4954.

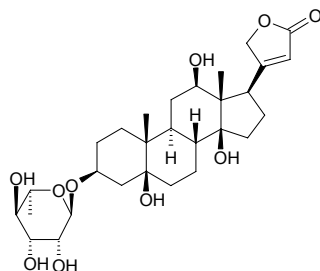
**1460 (-)-Antioquine**

$C_{37}H_{40}N_2O_6$ (608.74). Amorphous, $[\alpha]_D^{20} = -170^\circ$ ($c = 0.2$, CHCl_3). **Pharm:** Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, $IC_{50} = 47.4 \mu\text{g/mL}$, $IC_{90} = 87.9 \mu\text{g/mL}$)^[3976]; antimalarial (*Plasmodium falciparum* D6, $LC_{50} = 118.7 \text{ng/mL}$, $SI = 56$; *Plasmodium falciparum* W2, $LC_{50} = 132.7 \text{ng/mL}$, $SI = 50$)^[3976]; cytotoxic (KB, $LC_{50} = 6700 \text{ng/mL}$)^[3976]. **Source:** *Guatteria boliviana* (stem bark). **Ref:** 3976.

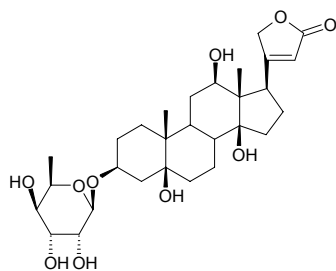


1461 Antioside

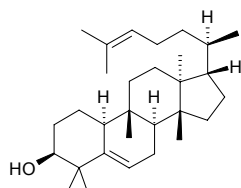
$C_{29}H_{44}O_{10}$ (552.67). Colorless tetrahedral crystals (methanol-ether), mp 183~210°C; 222~230°C, $[\alpha]_D^{24} = -7.6^\circ$ ($c = 0.9$, methanol). **Pharm:** Toxin (vertebrate). **Source:** JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. **Ref:** 661.

**1462 α -Antioside**

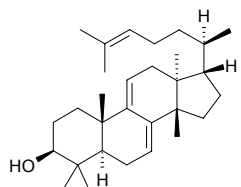
$C_{29}H_{44}O_{10}$ (552.67). **Source:** JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. **Ref:** 660.

**1463 Antiquol B**

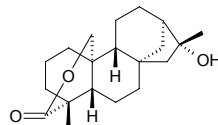
19(10 \rightarrow 9)Abeo-8 α ,9 β ,10 α -eupha-5,24-dien-3 β -ol $C_{30}H_{50}O$ (426.73). Needles, mp 75~76°C, $[\alpha]_D^{25} = +24.8^\circ$ ($c = 0.21$). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** HUO YANG LE *Euphorbia antiquorum* (latex). **Ref:** 4606.

**1464 Antiquol C**

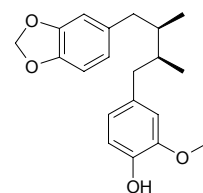
Eupha-7,9(11),24-trien-3 β -ol $C_{30}H_{48}O$ (424.72). Amorphous gum, $[\alpha]_D^{25} = -35.0^\circ$ ($c = 0.24$). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** HUO YANG LE *Euphorbia antiquorum* (latex). **Ref:** 4606.

**1465 Antriptolactone**

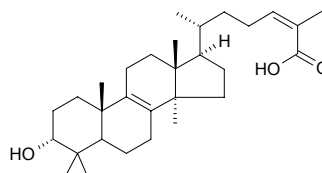
$C_{20}H_{30}O_3$ (318.46). **Source:** LEI GONG TENG *Tripterygium wilfordii*, MA DAN GUO *Gynocardia odorata*. **Ref:** 660, 1521.

**1466 Anwulignan**

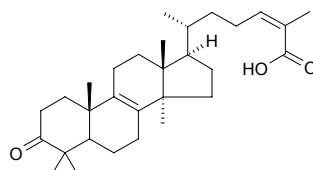
(8*S*,8'*R*)-Macelignan; Calophyn [107534-93-0] $C_{20}H_{24}O_4$ (328.41). Colorless needles, $[\alpha]_D^{24} = +5^\circ$ ($c = 0.96$, $CHCl_3$). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 69\mu\text{mol/L}$)^[4344]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], FENG CHAO CAO *Leucas aspera* (whole herb), HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660, 2436, 4344.

**1467 Anwuweizic acid**

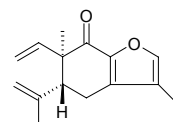
3-Oxolanosta-8,24-dien-26-oic acid $C_{30}H_{48}O_3$ (456.72). **Pharm:** Antineoplastic^[2523], anti-HIV^[2523]. **Source:** HAN RUI WU WEI ZI *Schisandra propinqua*, HUA ZHONG WU WEI ZI *Schisandra sphenanthera*. **Ref:** 660, 2436, 2523.

**1468 Anwuweizonic acid**

$C_{30}H_{46}O_3$ (454.70). **Source:** ZHONG JIAN WU WEI ZI *Schisandra propinqua* var. *intermedia*. **Ref:** 660.

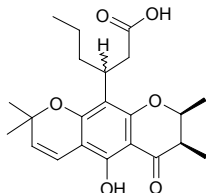
**1469 Aoifuranone**

$C_{15}H_{18}O_2$ (230.31). **Source:** SHUANG YE XI XIN *Asarum caulescens*. **Ref:** 660.

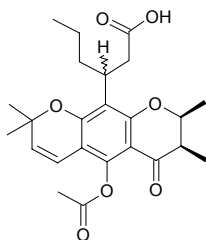


1470 Apetalic acid

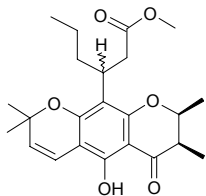
$C_{22}H_{28}O_6$ (388.46). Yellow oil, $[\alpha]_D^{25} = +23.8^\circ$ ($c = 1.0$, CH_2Cl_2). **Pharm:** Cytotoxic (KB, $ED_{50} = 13.64\mu g/mL$, HeLa, $ED_{50} = 17.73\mu g/mL$, hmn medulloblastoma, $ED_{50} > 20\mu g/mL$, control Doxorubicin, $ED_{50} = 0.15\mu g/mL$, $0.14\mu g/mL$, $0.19\mu g/mL$ respectively)^[4274]; antifungal inactive (*Aspergillus fumigatus*, $MIC_{80} > 250\mu g/mL$; Amphotericin B, $MIC_{80} = 8\mu g/mL$)^[5489]. **Source:** SU GE LAN HU TONG *Calophyllum caledonicum* (seed), *Calophyllum blancoi* (seed). **Ref:** 4274, 5489.

**1471 Apetalic acid 5-O-acetate**

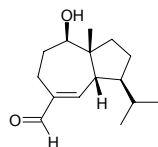
$C_{24}H_{30}O_7$ (430.50). Yellow oil, $[\alpha]_D^{25} = +77.1^\circ$ ($c = 1.0$, CH_2Cl_2). **Pharm:** Cytotoxic, $ED_{50} = 6.18\mu g/mL$, HeLa, $ED_{50} = 6.95\mu g/mL$, hmn medulloblastoma, $ED_{50} = 10.18\mu g/mL$, control Doxorubicin, $ED_{50} = 0.15\mu g/mL$, $0.14\mu g/mL$, $0.19\mu g/mL$ respectively). **Source:** *Calophyllum blancoi* (seed). **Ref:** 4274.

**1472 Apetalic acid methyl ester**

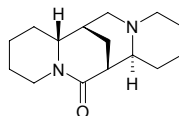
$C_{23}H_{30}O_6$ (402.49). Yellow oil, $[\alpha]_D^{25} = +220.0^\circ$ ($c = 1.0$, CH_2Cl_2). **Pharm:** Cytotoxic, $ED_{50} = 7.61\mu g/mL$, HeLa, $ED_{50} = 8.94\mu g/mL$, hmn medulloblastoma, $ED_{50} = 9.91\mu g/mL$, control Doxorubicin, $ED_{50} = 0.15\mu g/mL$, $0.14\mu g/mL$, $0.19\mu g/mL$ respectively). **Source:** *Calophyllum blancoi* (seed). **Ref:** 4274.

**1473 Aphanamol II**

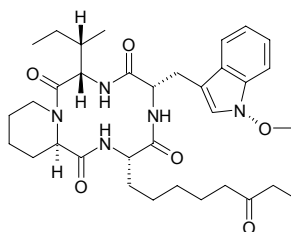
Aphanamixis grandifolia $C_{15}H_{24}O_2$ (236.36). White powder, $[\alpha]_D^{20} = +37.5^\circ$ ($c = 0.26$, $CHCl_3$). **Pharm:** Anti-HIV-1 inactive (*in vitro*, HOG.R5). **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00009%dw). **Ref:** 4688.

**1474 Aphylline**

[577-37-7] $C_{15}H_{24}N_2O$ (248.37). **Pharm:** Pesticide. **Source:** WU YE JIA MU ZEII *Anabasis aphylla*. **Ref:** 658.

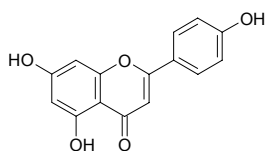
**1475 Apicidin**

[183506-66-3] $C_{34}H_{49}N_5O_6$ (623.80). Colorless acicular crystals (methanol), mp $195\sim 197^\circ C$, $[\alpha]_D^{22} = -80.4^\circ$ ($c = 1.2$, chloroform). **Pharm:** Antimalarial (mus, ip, $< 10mg/kg$); Anthelmintic. **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 1177.

**1476 Apigenin**

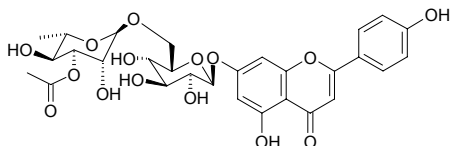
[520-36-5] $C_{15}H_{10}O_5$ (270.24). Light yellow crystals (methanol), mp $344\sim 347^\circ C$; $346\sim 347^\circ C$. **Pharm:** Antibacterial; antiulcerative (rat, gastric ulcer); antispasmodic (smooth muscle); diuretic; aldose reductase inhibitor ($IC_{50} = 2.2\mu mol/L$, control Epalrestat, $IC_{50} = 0.072\mu mol/L$)^[4530]; antihypertensive; nodulation signal for metabiosis of pea and *Rhizobium leguminosarum*; binding activity to benzodiazepine receptor ($IC_{50} = (30\pm 4)\mu mol/L$, control Diazepam, $IC_{50} = (0.05\pm 0.01)\mu mol/L$)^[5366]; anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean $IC_{50} = 16.4\mu mol/L$)^[4416]; anti-inflammatory (macrophages, COX-2 inhibitor, prevents COX-2 expression)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; platelet aggregation inhibitor^[4415]; antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} = (27.8\pm 1.6)\mu g/mL$; control NDGA, $IC_{50} = (0.7\pm 0.3)\mu g/mL$, Vitamin C, $IC_{50} = (1.9\pm 0.7)\mu g/mL$, Trolox, $IC_{50} = (1.4\pm 0.5)\mu g/mL$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 25.0\mu g/mL$; control NDGA, $IC_{50} = (2.6\pm 0.2)\mu g/mL$, Vitamin C, $IC_{50} > 10.0\mu g/mL$, Trolox, $IC_{50} > 10.0\mu g/mL$)^[3850]; antioxidant (DPPH scavenger, $10\mu mol/L$, ScRt = 18%, control BHT, $10\mu mol/L$, ScRt = 43%)^[5319]. **Source:** BAI GUO YE *Ginkgo biloba*, BAI LI XIANG *Thymus serpyllum*, BEI YE JU *Chrysanthemum boreale*, CU YING MAO DIAN ZI CAO *Onosma hispida* (whole herb), FEN ZHI PO JU *Amberboa ramosa*, FENG JIAO *Apis mellifera ligustica*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HAN QIN BIAN ZHONG *Apium graveolens* var. *dulce*, HU ZHANG *Polygonum cuspidatum*, JI YAN CAO *Kummerowia striata*, JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00004%fw)^[4664], JUAN BAI *Selaginella tamariscina*, LAN YU BAI JI *Bletilla formosana* (whole herb), LANG PA CAO *Bidens tripartita* (whole herb: mean content = 0.043%)^[5508], LAO SHU LE *Acanthus ilicifolius*, LU CAO *Rhaponticum carthamoides*, MA HUANG *Ephedra sinica*, MI MENG HUA *Buddleja officinalis*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00017%dw)^[4752], NIU SHE TOU *Sonchus arvensis*, RI BEN HUA BAI *Chamaecyparis pisifera* (leaf), SAN CHI LA RUI A *Larrea tridentata* (leaf)^[3850], SAN JIAN SHAN

Cephalotaxus fortunei, SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.00043%fw)^[4689], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00002%dw)^[4665], TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00029%dw)^[4759], TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), WU HUAN ZI YE *Sapindus mukorossi*, WU JU LOU DOU CAI *Aquilegia ecalcarata* (whole herb: yield = 0.00022%dw)^[3029], XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YANG SHI CAO *Achillea millefolium*, YAO YONG DAN SHEN YE *Salvia officinalis*, YAO YONG PU GONG YING *Taraxacum officinale*, YUAN BAI *Sabina chinensis*, YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.444%^[5535]), ZI WEI *Campsis grandiflora* (flower), occurs in many plants (found free or as glycosides in the stem, root, leaf, seed or fruit of a very wide range of plants). Ref: 2, 369, 388, 440, 463, 521, 597, 660, 698, 2080, 2531, 3029, 3850, 4144, 4415, 4416, 4490, 4500, 4530, 4664, 4665, 4689, 4752, 4759, 5319, 5366, 5400, 5501, 5508, 5535.



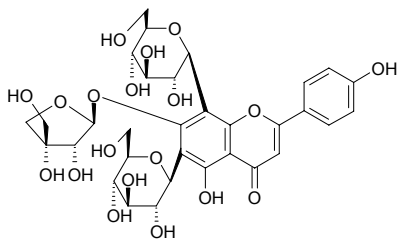
1477 Apigenin-7-O- α -L-3-O-acetylramnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

$C_{29}H_{32}O_{15}$ (620.57). Yellow powder (MeOH), $[\alpha]_D^{27} = -45.4^\circ$ ($c = 0.1$, MeOH). Pharm: Neurite outgrowth enhancer (PC12D cells, nerve growth factor-mediated, 100 μ mol/L). Source: YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00019%). Ref: 4745.



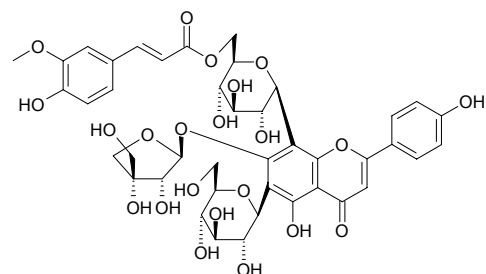
1478 Apigenin-7-O- β -apiofuranosyl-6,8-di-C- β -glucopyranoside

$C_{32}H_{38}O_{19}$ (726.65). Source: *Lupinus hartwegii*. Ref: 3388.



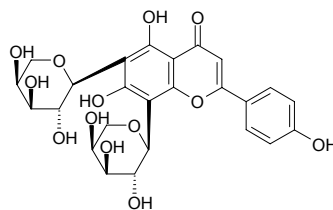
1479 Apigenin-7-O- β -apiofuranosyl-6-C- β -glucopyranosyl-8-C-(6'''-O-E-feruloyl)- β -glucopyranoside

$C_{42}H_{46}O_{22}$ (902.82). Source: *Lupinus hartwegii*. Ref: 3388.



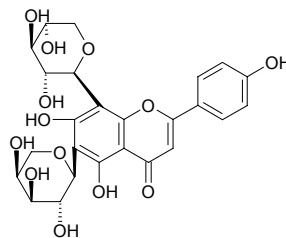
1480 Apigenin-6-C- α -L-arabinopyranosyl-8-C- β -L-arabinopyranoside

$C_{25}H_{26}O_{13}$ (534.48). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.0024%dw)^[4665], ZI HUA DI DING *Viola yedoensis* (whole herb)^[4393]. Ref: 4393, 4665.



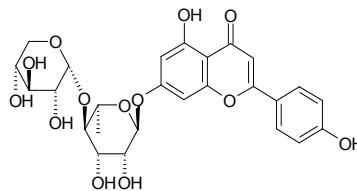
1481 Apigenin-6-C- α -L-arabinopyranosyl-8-C- β -D-xylopyranoside

$C_{25}H_{26}O_{13}$ (534.48). Source: ZI HUA DI DING *Viola yedoensis* (whole herb). Ref: 4393.



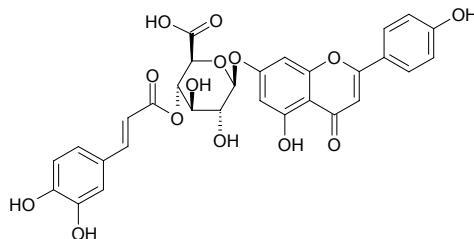
1482 Apigenin-bioside

$C_{26}H_{28}O_{13}$ (548.51). mp 257~258°C. Source: CI HUAI HUA *Robinia pseudoacacia*. Ref: 6.



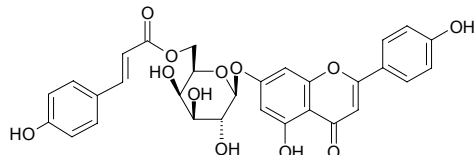
1483 Apigenin-7-O- β -D-(4''-caffeoyl)glucuronide

$C_{30}H_{24}O_{14}$ (608.52). Pale amorphous powder. Pharm: Anti-HIV-1 (HIV-1 integrase inhibitor, $IC_{50} = (7.2 \pm 3.4) \mu\text{g/mL}$, L-Chicoric acid, $IC_{50} = (7.4 \pm 3.3) \mu\text{g/mL}$); anti-HIV (HIV-1III B-induced MT-4 cells, $EC_{50} = (41.86 \pm 1.43) \mu\text{g/mL}$, $CC_{50} > 150 \mu\text{g/mL}$, $SI > (3.58 \pm 1.15)$, L-Chicoric acid, $EC_{50} = (54.33 \pm 7.60) \mu\text{g/mL}$, $CC_{50} > 150 \mu\text{g/mL}$, $SI > (2.81 \pm 0.39)$). Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*]. Ref: 5444.



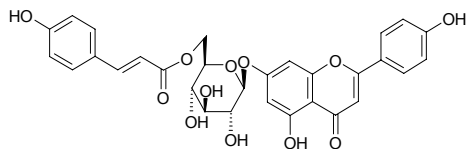
1484 Apigenin-7-O-(6'''-(E)-p-coumaroyl)- β -D-galactopyranoside

$C_{30}H_{26}O_{12}$ (578.53). Yellow granular crystals, mp 194~196°C. Source: XIA ZHI CAO *Lagopsis supina*. Ref: 2222.

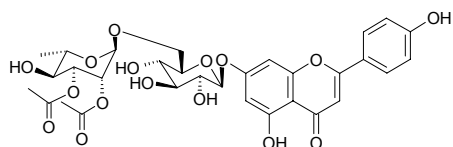


1485 Apigenin-7-O-β-D-(6''-p-coumaroyl)-glucoside

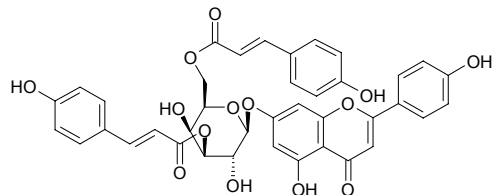
C₃₀H₂₆O₁₂ (578.53). Colorless thin acicular crystals, mp 264–265°C, [α]_D¹⁷ = –143.93° (c = 0.06, EtOH). Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], MAO BAI YANG *Populus tomentosa*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00002%dw)^[4752]. Ref: 2, 269, 660, 4752.

**1486 Apigenin-7-O-α-L-2,3-di-O-acetylramnopyranosyl-(1→6)-β-D-glucopyranoside**

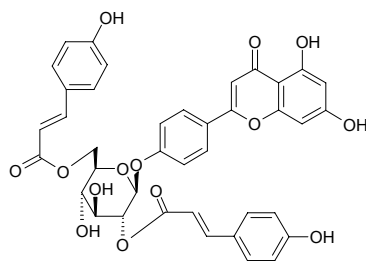
C₃₁H₃₄O₁₆ (662.61). Yellow powder (MeOH), [α]_D²⁷ = –50.2° (c = 0.2, MeOH). Pharm: Neurite outgrowth enhancer (PC12D cells, nerve growth factor-mediated, 100μmol/L). Source: YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00021%). Ref: 4745.

**1487 Apigenin-7-O-(3'',6''-di-(E)-p-coumaroyl)-β-D-galactopyranoside**

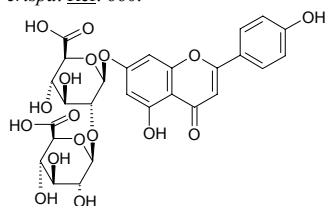
C₃₉H₃₂O₁₄ (724.68). Yellowish powdery crystals, mp 206–207°C. Source: XIA ZHI CAO *Lagopsis supina*. Ref: 2222.

**1488 Apigenin-4'-O-(2'',6''-di-O-p-coumaroyl)-β-D-glucoside**

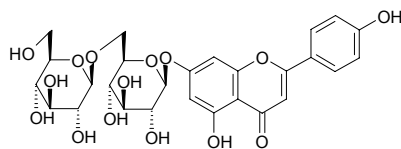
C₃₉H₃₂O₁₄ (724.68). Yellow powder, mp 252–253°C (MeOH), [α]_D²² = –65.0° (c = 0.30, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem, leaf: yield = 0.0037%dw). Ref: 4633.

**1489 Apigenin-7-O-diglucuronide**

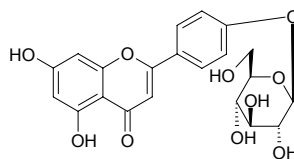
C₂₇H₂₆O₁₇ (622.50). Source: HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 660.

**1490 Apigenin-7-O-gentiobioside**

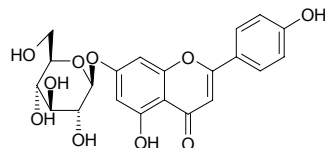
C₂₇H₃₀O₁₅ (594.53). Source: LUO SHI TENG *Trachelospermum jasminoides*. Ref: 660.

**1491 Apigenin-4'-O-β-D-glucopyranoside**

C₂₁H₂₀O₁₀ (432.39). Pharm: Aldose reductase inhibitor (IC₅₀ = 3.2μmol/L, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4530]. Source: SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). Ref: 4530.

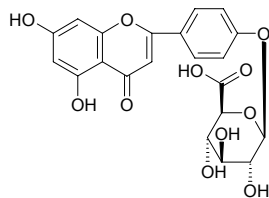
**1492 Apigenin-7-O-glucoside**

Thalictiin; Cosmosiin; Apigenside [578-74-5] C₂₁H₂₀O₁₀ (432.39). Yellow powder, mp 178–180°C, [α]_D²⁵ = –62° (c = 0.45, MeOH); mp 238.0–239.5°C. Pharm: Cytotoxic (KB oral epidermoid carcinoma, ED₅₀ = 3.5μg/mL, Hep3B hepatoma cells, ED₅₀ = 8.7μg/mL)^[4253]; aldose reductase inhibitor (IC₅₀ = 4.4μmol/L, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4530]; aldose reductase inhibitor (rat lens, IC₅₀ = 23μmol/L, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4214]; nodulation signal for metabiosis of pea and *Rhizobium leguminosarum*; anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean IC₅₀ = 14.2μmol/L)^[4416]; antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 88.4μmol/L; control Trolox, IC₅₀ = 101μmol/L)^[4698]. Source: BAI RI CAO *Zinnia elegans*, CU YING MAO DIAN ZI CAO *Onosma hispidum* (whole herb), CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.0021%dw)^[4698], DA BO SI JU *Cosmos bipinnata*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], JI YAN CAO *Kummerowia striata*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (dried capitulum: mean content of 9 origins = 0.54%^[5530]), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig), XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YAN GUO CAO *Thalictrum thunbergii*, YAO YONG PU GONG YING *Taraxacum officinale*, YE JU HUA *Chrysanthemum indicum*. Ref: 2, 6, 440, 658, 660, 4214, 4253, 4416, 4490, 4530, 4698, 5400, 5530.

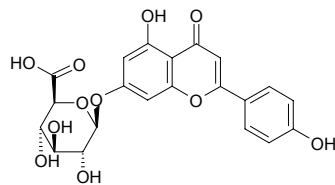


1493 Apigenin-4'-O-glucuronide

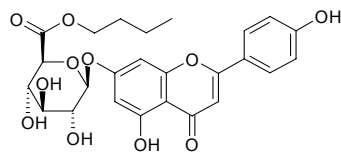
$C_{21}H_{18}O_{11}$ (446.37). Source: DA HUA SHAN QIAN NIU *Thunbergia grandiflora*, DA LI HUA *Dahlia pinnata* [Syn. *Dahlia variabilis*], DENG ZHAN XI XIN *Erigeron breviscapus*, SHE TAI *Conocephalum conicum*, YI NIAN PENG *Erigeron annuus*. Ref: 660.

**1494 Apigenin-7-O-β-D-glucuronide**

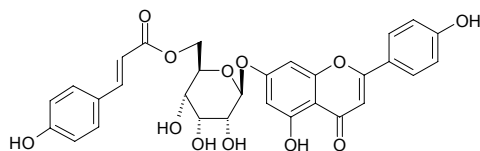
$C_{21}H_{18}O_{11}$ (446.37). mp 335~342°C. Pharm: Anti-HIV-1 (HIV-1 integrase inhibitor, $IC_{50} = (51 \pm 14) \mu\text{g/mL}$, *L*-Chicoric acid, $IC_{50} = (7.4 \pm 3.3) \mu\text{g/mL}$)^[5444]; anti-HIV (HIV-1IIIIB-induced MT-4 cells, $EC_{50} > (0.32 \pm 0.05) \mu\text{g/mL}$, $CC_{50} = (0.32 \pm 0.05) \mu\text{g/mL}$, $SI < 1$, *L*-Chicoric acid, $EC_{50} = (54.33 \pm 7.60) \mu\text{g/mL}$, $CC_{50} > 150 \mu\text{g/mL}$, $SI > (2.81 \pm 0.39)$)^[5444]. Source: DA YE ZI ZHU *Callicarpa macrophylla*, JIN YU CAO *Antirrhinum majus*, KUAI JING CAO SU *Phlomis tuberosa*, LAO SHU LE *Acanthus ilicifolius*, SHUI FEI JI *Silybum marianum*, YI NIAN PENG *Erigeron annuus*. Ref: 6, 660, 1521, 2080, 5444.

**1495 Apigenin-7-O-β-D-glucuronide butyl ester**

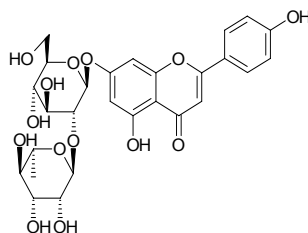
$C_{25}H_{26}O_{11}$ (502.48). mp 237~240°C. Source: DUO SHE FEI PENG *Erigeron multiradiatus*. Ref: 830.

**1496 Apigenin-7-O-β-D-(6'-p-hydroxy-cinnamoyloxy)-mannoside**

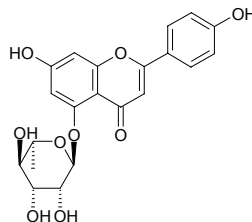
$C_{30}H_{26}O_{12}$ (578.53). Yellow powder, mp 269~270°C. Source: XIAO YE ZHI MA *Galeobdolon chinense* [Syn. *Lamium chinense*]. Ref: 2253.

**1497 Apigenin-7-O-neohesperidoside**

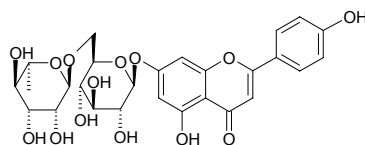
Rhoifolin; Rhoifolioside [17306-46-6] $C_{27}H_{30}O_{14}$ (578.53). mp 205~208°C, 245°C. Pharm: Xanthinoxidase inhibitor (50μg/mL, InRt = 12.9%); antioxidant (microsome of rat hepatic cells, CCl_4 -induced lipid peroxidation, 100μmol/L InRt = 37.9%, $FeSO_4$ +cysteine-induced lipid peroxidation, 100μmol/L InRt = 70.1%; $IC_{50} = 66.1 \mu\text{mol/L}$); antineoplastic (TPA-induced EBV-EA, weak activity); antihypertensive (conscious spontaneous hypertensive rat); antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, $IC_{50} = 95.9 \mu\text{mol/L}$; control Trolox, $IC_{50} = 101 \mu\text{mol/L}$)^[4698]. Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.0022%_{dw})^[4698], DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*], GOU JU *Poncirus trifoliata*, GOU JU YE *Poncirus trifoliata*, HUA ZHOU YOU *Citrus grandis* var. *Tomentosa* (exocarp of almost ripe fruit: mean content = 0.655%^[5508]), LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], LUO SHI TENG *Trachelospermum jasminoides*, YE QI SHU YE *Rhus sylvestris*, YOU⁽⁴⁾ *Citrus grandis* (exocarp of almost ripe fruit: mean content = 0.090%^[5508]), ZHI SHI *Citrus aurantium*. Ref: 6, 660, 1632, 1672, 1673, 1674, 4698, 5508.

**1498 Apigenin-5-rhamnoside**

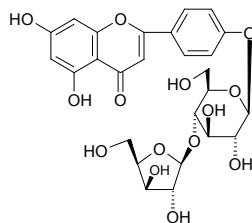
$C_{21}H_{20}O_9$ (416.39). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**1499 Apigenin-7-O-rutinoside**

$C_{27}H_{30}O_{14}$ (578.53). Pharm: Aldose reductase inhibitor ($IC_{50} = 4.7 \mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072 \mu\text{mol/L}$)^[4530]. Source: SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). Ref: 4530.

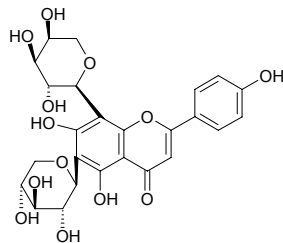
**1500 Apigenin-4'-O-β-D-xylofuranosyl(1→4)-O-β-D-glucopyranoside**

$C_{26}H_{28}O_{14}$ (564.50). Source: FENG XIAN *Impatiens balsamina*, JI XING ZI *Impatiens balsamina*. Ref: 660.

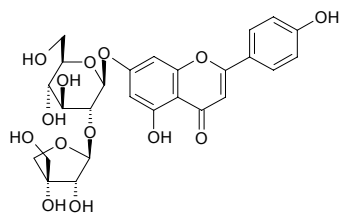


1501 Apigenin-6-C- β -D-xylopyranosyl-8-C- α -L-arabinopyranoside

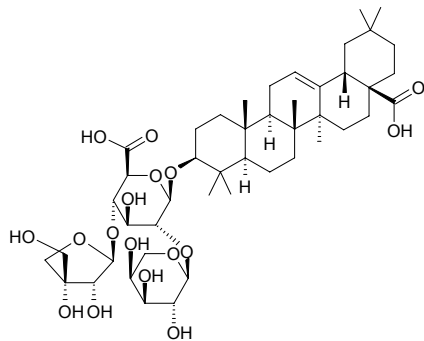
$C_{25}H_{26}O_{13}$ (534.48). Source: ZI HUA DI DING *Viola yedoensis* (whole herb). Ref: 4393.

**1502 Apiin**

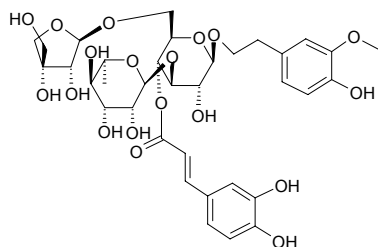
[26544-34-3] $C_{26}H_{28}O_{14}$ (564.50). mp 228°C. Pharm: Antispasmodic (smooth muscle); aldose reductase inhibitor (eye lens); sedative. Source: GAO GUI CHUN HUANG JU *Anthemis nobilis*, HAN QIN *Apium graveolens*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], XIAO CHAO CAI *Vicia hirsuta*, ZHOU YE OU QIN *Petroselinum crispum*. Ref: 6, 658.

**1503 3-O- β -D-Apiofuranosyl-(1 \rightarrow 4)-[α -L-arabinopyranosyl-(1 \rightarrow 2)] β -D-glucuronopyranosyl oleanolic acid**

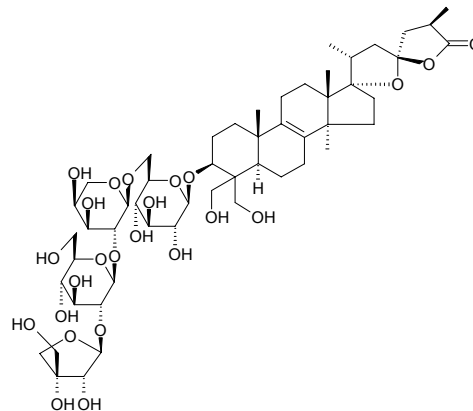
$C_{46}H_{72}O_{17}$ (897.08). Amorphous powder, $[\alpha]_D^{23} = -3.7^\circ$ ($c = 1.06$, MeOH). Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.

**1504 6'- β -D-Apiofuranosylcistanoside C**

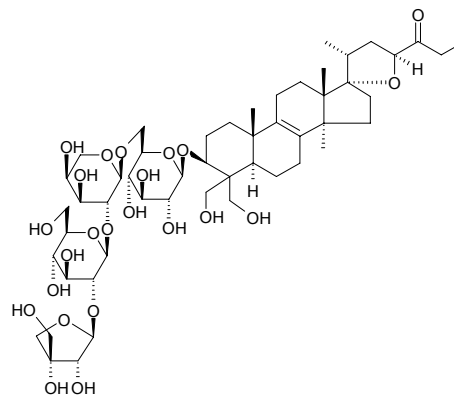
[239436-90-9] $C_{35}H_{46}O_{19}$ (770.75). Off-white amorphous powder. Source: DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. Ref: 2318.

**1505 (23S,25R)-3 β -[(O- β -D-Apiofuranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-28,29-dihydroxylanost-8-en-23,26-olide**

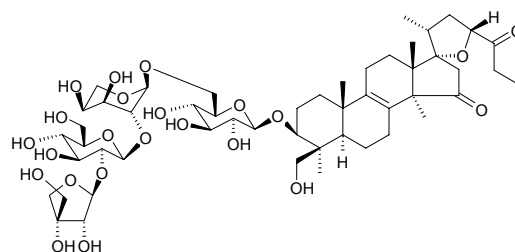
$C_{52}H_{82}O_{24}$ (1091.22). Pharm: Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, $IC_{50} > 50\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). Source: XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). Ref: 4308.

**1506 (23S)-3 β -[(O- β -D-Apiofuranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-28,29-dihydroxy-27-norlanost-8-en-24-one**

$C_{51}H_{82}O_{23}$ (1063.21). Pharm: Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, $IC_{50} > 50\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). Source: XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). Ref: 4308.

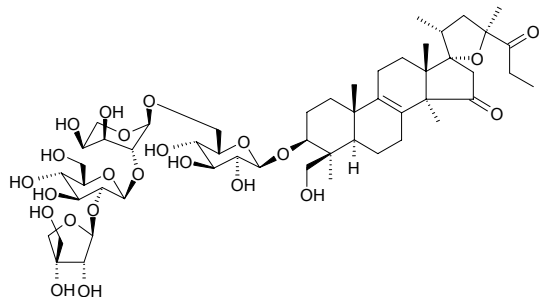
**1507 (23R)-3 β -[(O- β -D-Apiofuranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-29-hydroxy-27-norlanost-8-ene-15,24-dione**

$C_{51}H_{80}O_{23}$ (1061.19). Amorphous solid, $[\alpha]_D^{28} = -2.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic inactive (*in vitro*, HSC-2, $100\mu\text{mol/L}$; control Etoposide, $IC_{50} = 41\mu\text{mol/L}$). Source: QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.00019%fw). Ref: 4793.



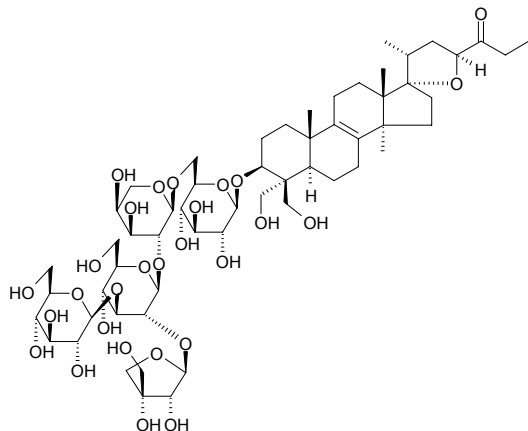
1508 (23S)-3β-[(O-β-D-Apiofuranosyl-(1→2)-O-β-D-glucopyranosyl-(1→2)-O-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranosyl)oxy]-17α,23-epoxy-29-hydroxy-27-norlanost-8-ene-15,24-dione

C₅₁H₈₀O₂₃ (1061.19). **Pharm:** Cytotoxic (*in vitro*, HSC-2, IC₅₀ = 6.2 μmol/L; control Etoposide, IC₅₀ = 41 μmol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb; yield = 0.0007%fw). **Ref:** 4793.



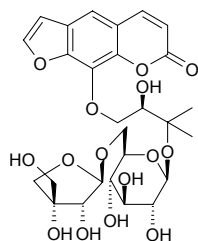
1509 (23S)-3β-[(O-β-D-Apiofuranosyl-(1→2)-O-β-D-glucopyranosyl-(1→3)-O-β-D-glucopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranosyl)oxy]-17α,23-epoxy-28,29-dihydroxy-27-norlanost-8-en-24-one

C₅₇H₉₂O₂₈ (1225.35). Amorphous solid, [α]_D²⁶ = -24.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ > 50 μg/mL, control Etoposide, IC₅₀ = 24 μg/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



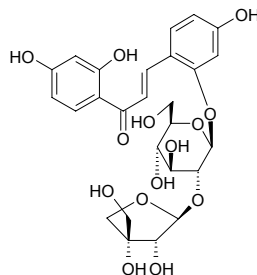
1510 13-O-[β-D-Apiofuranosyl(1→6)-β-D-glucopyranosyl]-(12R)-heraclenol

C₂₇H₃₄O₁₅ (598.56). Pale-yellow amorphous solid, [α]_D^{24.3} = -34.52° (c = 0.44, C₅H₅N). **Pharm:** Platelet aggregation inhibitor inactive (rabbit platelets, 4.5 nmol/L PAF-induced, 350 μmol/L AA-induced, 5 μmol/L ADP-induced, 240 μmol/L). **Source:** BAI YUN HUA *Heracleum rapula* (fresh root). **Ref:** 4997.



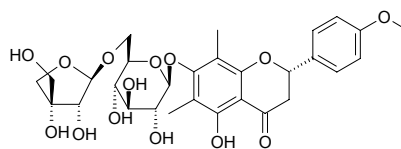
1511 2'-O-[β-D-Apiofuranosyl(1→2)-β-D-glucopyranosyl]isoliquiritigenin

C₂₆H₃₀O₁₄ (566.52). Yellow crystalline powder, mp 150~151°C. **Source:** JIN YIN HUA *Lonicera japonica*, LIAN QIAO *Forsythia suspensa*. **Ref:** 2453.



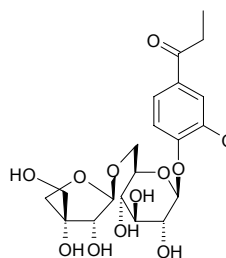
1512 7-O-β-D-Apiofuranosyl-(1→6)-β-D-glucopyranosylmatteucinol

C₂₉H₃₆O₁₄ (608.6). [α]_D^{22.6} = -16.8° (c = 0.37, acetone). **Source:** DU JUAN HUA YE *Rhododendron simsii*. **Ref:** 749.



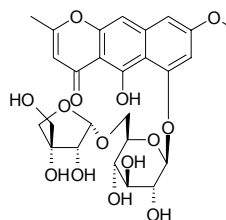
1513 4-[β-D-Apiofuranosyl-(1→6)-β-D-glucopyranosyloxy]-3-methoxy-propiophenone

C₂₁H₃₀O₁₂ (474.47). Colorless amorphous solid, [α]_D = -61.3° (c = 0.180, MeOH). **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ > 50 μg/mL, 50 μg/mL InRt = 14%, control Ascorbic acid, EC₅₀ = 1.6 μg/mL = 9.1 μmol/L). **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.



1514 6-[(α-Apiofuranosyl-(1→6)-O-β-D-glucopyranosyl)oxy]rubrofuscarin

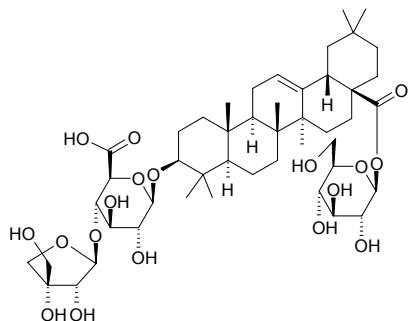
C₂₆H₃₀O₁₄ (566.52). **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2.



1515 3-O- β -D-Apiofuranosyl-(1 \rightarrow 4)- β -D-glucuronopyranosyl]oleanolic acid 28-O- β -D-glucopyranosyl ester

C₄₇H₇₄O₁₈ (927.10). Amorphous powder, $[\alpha]_D^{23} = -13.1^\circ$ ($c = 1.38$, MeOH).

Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.

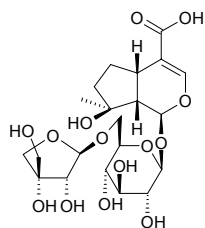


1516 6-O- β -D-Apiofuranosyl-mussaenosidic acid

C₂₁H₃₂O₁₄ (508.48). Amorphous powder, $[\alpha]_D = -97.1^\circ$ ($c = 1.02$, MeOH).

Source: SI XIAO BO SHUANG YE YU GU MU *Canthium berberidifolium*.

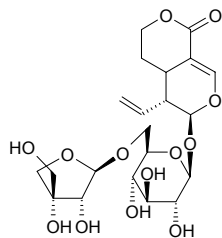
Ref: 1925.



1517 6'-O- β -D-Apiofuranosylsweroside

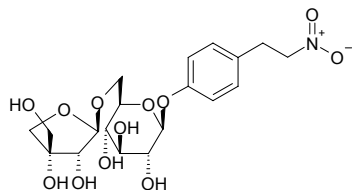
C₂₁H₃₀O₁₃ (490.47). Colorless crystalline solid, mp 115~119°C, $[\alpha]_D^{19} = +206^\circ$ ($c = 1.21$, MeOH). Source: WU SHI REN DONG *Lonicera*

quinquelocularis (root). Ref: 3926.



1518 6'-O- β -D-Apiofuranosylthalictoside

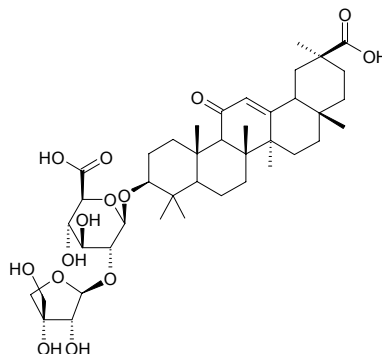
C₁₉H₂₇NO₁₂ (461.43). Yellowish oil, easily soluble in H₂O and MeOH. Source: ZHONG JIAN WU WEI ZI *Schisandra propinqua* var. *intermedia* (stem). Ref: 4845.



1519 Apioglycyrrhizin

C₄₁H₆₂O₁₄ (778.94). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*.

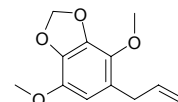
Ref: 660.



1520 Apiole

[523-80-8] C₁₂H₁₄O₄ (222.24). Pharm: Antipyretic; antispasmodic; frees

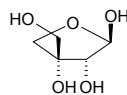
menstruation; pesticide; LD₅₀ (dog, iv) = 500mg/kg. Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], QIANG HUO *Notopterygium incisum*, XIA YE HU JIAO *Piper angustifolium*, ZHANG MU *Cinnamomum camphora*, ZHOU YE OU QIN *Petroselinum crispum*. Ref: 2, 658, 660.



1521 Apiose

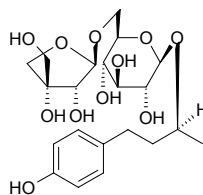
[639-97-4] C₅H₁₀O₅ (150.13). Source: FU PING *Lemma minor*, HAI DAI

Zostera marina. Ref: 6.



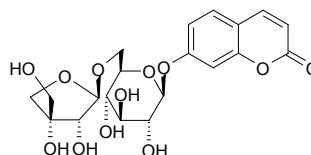
1522 Apiosylepirhododendrin

C₂₁H₃₂O₁₁ (460.48). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.027%). Ref: 4304.



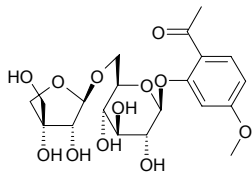
1523 Apiosylskimmin

C₂₀H₂₄O₁₂ (456.41). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

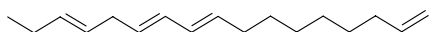


1524 Aplopaconoside

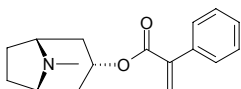
$C_{20}H_{28}O_{12}$ (460.44). Source: MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. Ref: 2, 50.

**1525 Aplotaxene**

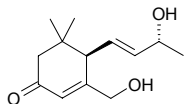
$C_{17}H_{28}$ (232.41). bp 110~115°C/8mmHg. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 6.

**1526 Apoatropine**

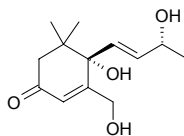
[500-55-0] $C_{17}H_{21}NO_2$ (271.36). mp 60~62°C. Pharm: Antispasmodic; LD₅₀ (mus, ip) = 14.1mg/kg. (mus, orl) = 160mg/kg. Source: DIAN QIE *Atropa belladonna*, DONG FANG TIAN XIAN ZI *Hyoscyamus orientalis*, LANG DANG GEN *Hyoscyamus niger*, LANG DANG ZI *Hyoscyamus niger*, MAO MAN TUO LUO YE *Datura innoxia*, YI YE JIA FAN LV *Pseudostellaria heterophylla*. Ref: 6, 658, 660.

**1527 Apocynol A**

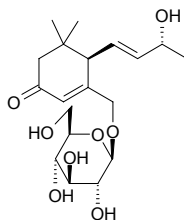
$C_{13}H_{20}O_3$ (224.30). Source: LUO BU MA *Apocynum venetum* (leaf). Ref: 3548.

**1528 Apocynol B**

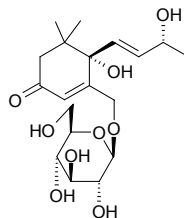
$C_{13}H_{20}O_4$ (240.30). Source: LUO BU MA *Apocynum venetum* (leaf). Ref: 3548.

**1529 Apocynoside I**

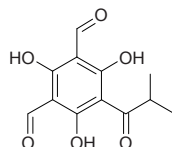
$C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{27} = +79.2^\circ$ ($c = 1.2$, MeOH). Source: LUO BU MA *Apocynum venetum* (leaf). Ref: 3548.

**1530 Apocynoside II**

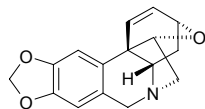
$C_{19}H_{30}O_9$ (402.45). Amorphous powder, $[\alpha]_D^{26} = +25.1^\circ$ ($c = 0.4$, MeOH). Source: LUO BU MA *Apocynum venetum* (leaf). Ref: 3548.

**1531 Apodophyllone**

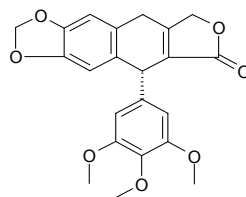
$C_{12}H_{12}O_6$ (252.23). Source: WU BING YE AN *Eucalyptus apodophylla*. Ref: 2331.

**1532 Apohaemanthamine**

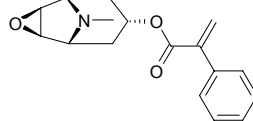
$C_{16}H_{15}NO_3$ (269.30). Colorless amorphous solid, mp 145~147°C, $[\alpha]_D^{22} = +198^\circ$ ($c = 0.63$, CHCl₃); colorless crystals (cyclohexane), mp 145~147°C, $[\alpha]_D^{22} = +198^\circ$ ($c = 0.64$, CHCl₃). Pharm: Antiplasmodial inactive (strain D10, IC₅₀ > 50μg/mL, control Hamayne, IC₅₀ = 15.6μg/mL, Chloroquine, IC₅₀ = 0.002μg/mL; strain FAC8, IC₅₀ > 50μg/mL, Hamayne, IC₅₀ = 18.2μg/mL, Chloroquine, IC₅₀ = 0.01μg/mL)^[3931]; cytotoxic (BL6, IC₅₀ > 100μg/mL, Hamayne, IC₅₀ = 9.4μg/mL, Chloroquine, IC₅₀ = 20.9μg/mL, Daunomycin, IC₅₀ = 0.43μg/mL)^[3931]. Source: BU LANG WEI JI *Brunsvigia radulosa* (bulb)^[3931], YA MA XUN BAI HE *Eucharis amazonica* (dried bulb and leaf)^[3931]. Ref: 3931, 4325.

**1533 β-Apopicropodophyllin**

[477-52-1] $C_{22}H_{20}O_7$ (396.40). mp 220~221°C. Source: WO ER QI *Diphylleia sinensis*. Ref: 6.

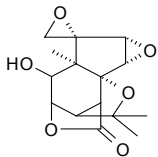
**1534 Aposcopolamine**

[535-26-2] $C_{17}H_{19}NO_3$ (285.35). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 3.

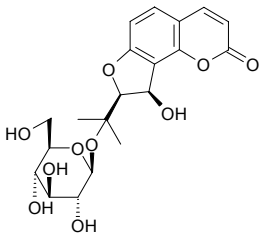


1535 Apotutin

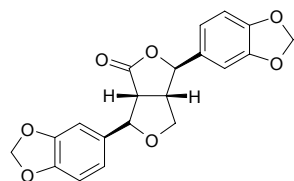
$C_{15}H_{18}O_6$ (294.31). White rhomboid crystals, mp 227–229°C. Source: MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*]. Ref: 413.

**1536 Apterin**

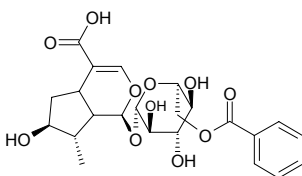
$C_{20}H_{24}O_{10}$ (424.41). Source: BAI HUA QIAN HU *Peucedanum praeruptorum*, FEN CHA DANG GUI *Angelica furcijuga* (flower), JI JI QIN *Zizia aptera*, TANG MU XUN DU HUO *Heracleum thomsoni*. Ref: 660, 1521, 4454.

**1537 (-)-Aptosimon**

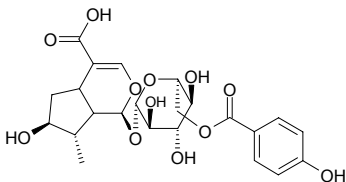
$C_{20}H_{16}O_7$ (368.35). Colorless oil, $[\alpha]_D^{26} = -101.5^\circ$ ($c = 2.0$, $CHCl_3$). Source: PI ZHEN XING YAO HUA *Wikstroemia lanceolata* (stem and root). Ref: 4947.

**1538 Aquaticoside A**

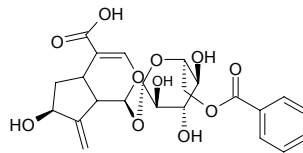
6'-*O*-Benzoyl-8-epiloganic acid $C_{23}H_{28}O_{11}$ (480.47). Amorphous powder, $[\alpha]_D^{24} = -77.4^\circ$ ($c = 0.30$, MeOH). Source: BEI SHUI KU MAI *Veronica anagallis-aquatica* (aerial parts). Ref: 3833.

**1539 Aquaticoside B**

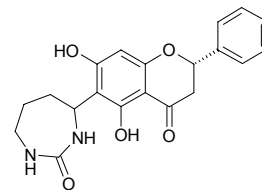
6'-*O*-*p*-Hydroxybenzoyl-8-epiloganic acid $C_{23}H_{28}O_{12}$ (496.47). Amorphous powder, $[\alpha]_D^{24} = -58.1^\circ$ ($c = 0.17$, MeOH). Source: BEI SHUI KU MAI *Veronica anagallis-aquatica* (aerial parts). Ref: 3833.

**1540 Aquaticoside C**

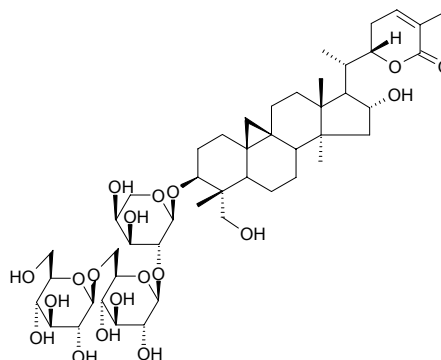
6'-*O*-Benzoyl-gardoside $C_{23}H_{26}O_{11}$ (478.46). Amorphous powder, $[\alpha]_D^{24} = +11.5^\circ$ ($c = 0.16$, MeOH). Source: BEI SHUI KU MAI *Veronica anagallis-aquatica* (aerial parts). Ref: 3833.

**1541 Aquiledine**

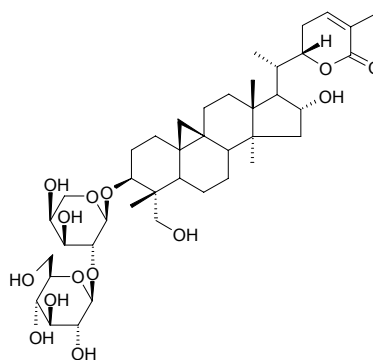
(2*S*)-6-(1,4-Ureylenebutyl)-5,7-dihydroxyflavanone $C_{20}H_{20}N_2O_5$ (368.39). White amorphous powder (CH₃OH), mp 214–215°C, $[\alpha]_D = +21^\circ$ ($c = 0.54$, CH₃OH). Source: WU JU LOU DOU CAI *Aquilegia ecalcarata* (whole herb; yield = 0.00010%dw). Ref: 3029.

**1542 Aquilegioside A**

$C_{47}H_{74}O_{19}$ (943.10). Pharm: Immunosuppressant inactive (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, $IC_{50} > 1000\mu g/mL$, control Cyclosporin A, $IC_{50} = 0.05\mu g/mL$). Source: OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). Ref: 4349.

**1543 Aquilegioside B**

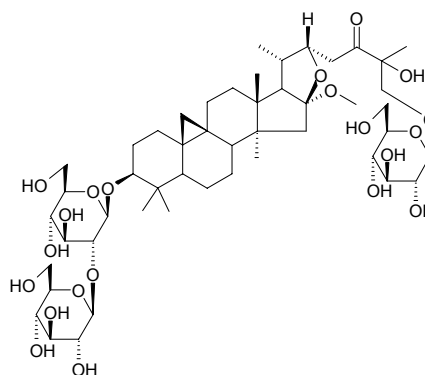
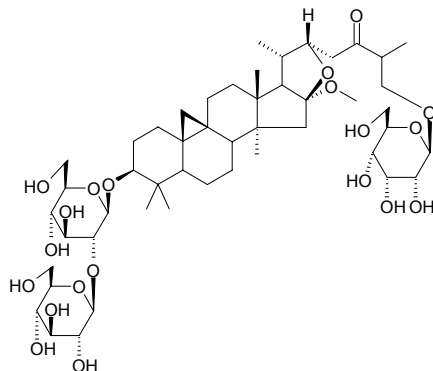
$C_{41}H_{64}O_{14}$ (780.96). Pharm: Immunosuppressant inactive (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, $IC_{50} > 1000\mu g/mL$, control Cyclosporin A, $IC_{50} = 0.05\mu g/mL$). Source: OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). Ref: 4349.



1544 Aquilegioside C

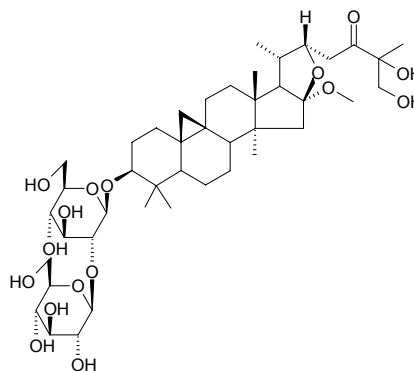
26-*O*- β -*D*-Allopyranosyl-(16*S*,20*S*,22*S*)-16 β ,22-epoxy-16 α -methoxy-3 β ,26-dihydroxy-cycloartan-24-one-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₄₉H₈₀O₂₀ (989.17). White powder, $[\alpha]_D^{25} = -28.3^\circ$ ($c = 1.08$, pyridine).

Pharm: Immunosuppressant (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, IC₅₀ = 225 μ g/mL = 227 μ mol/L, control Cyclosporin A, IC₅₀ = 0.05 μ g/mL = 0.04 μ mol/L). **Source:** OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). **Ref:** 4349.

**1547 Aquilegioside F**

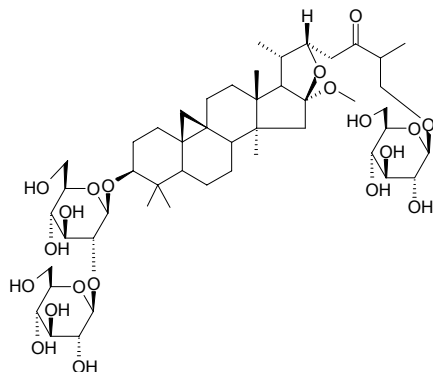
(16*S*,20*S*,22*S*)-16 β ,22-Epoxy-16 α -methoxy-3 β ,25,26-trihydroxy-cycloartan-24-one 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₄₃H₇₀O₁₆ (843.03). White powder, $[\alpha]_D^{25} = -2.5^\circ$ ($c = 0.35$, pyridine). **Pharm:**

Immunosuppressant (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, IC₅₀ = 31 μ g/mL = 37 μ mol/L, control Cyclosporin A, IC₅₀ = 0.05 μ g/mL = 0.04 μ mol/L). **Source:** OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). **Ref:** 4349.

**1545 Aquilegioside D**

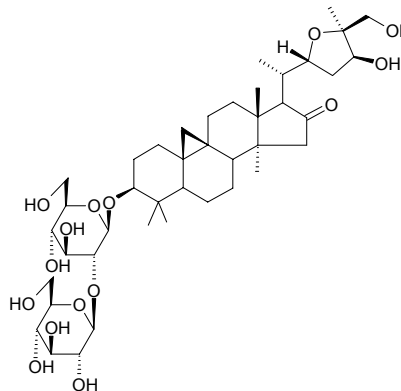
26-*O*- β -*D*-Glucopyranosyl-(16*S*,20*S*,22*S*)-16 β ,22-epoxy-16 α -methoxy-3 β ,26-dihydroxy-cycloartan-24-one-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₄₉H₈₀O₂₀ (989.17). White powder, $[\alpha]_D^{25} = -31.7^\circ$ ($c = 1.07$, pyridine).

Pharm: Immunosuppressant (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, IC₅₀ = 154 μ g/mL = 155 μ mol/L, control Cyclosporin A, IC₅₀ = 0.05 μ g/mL = 0.04 μ mol/L). **Source:** OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). **Ref:** 4349.

**1548 Aquilegioside G**

(20*S*,22*R*,24*S*,25*S*)-22,25-Epoxy-3 β ,24,27-trihydroxy-cycloartan-16-one 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₄₂H₆₈O₁₅ (813.00).

White powder, $[\alpha]_D^{25} = -30.8^\circ$ ($c = 0.30$, MeOH). **Source:** OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). **Ref:** 4370.

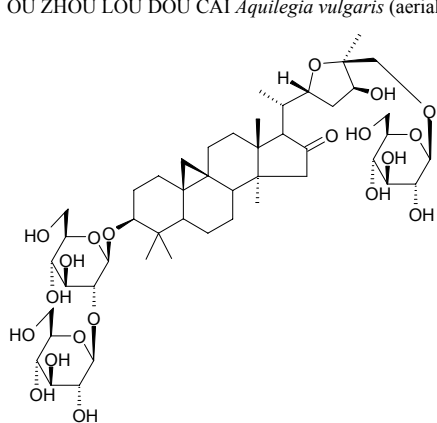
**1546 Aquilegioside E**

26-*O*- β -*D*-Glucopyranosyl (16*S*,20*S*,22*S*)-16 β ,22-epoxy-16 α -methoxy-3 β ,25,26-trihydroxy-cycloartan-24-one 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₄₉H₈₀O₂₁ (1005.17). White powder, $[\alpha]_D^{25} = -8.6^\circ$ ($c = 0.43$, pyridine). **Pharm:**

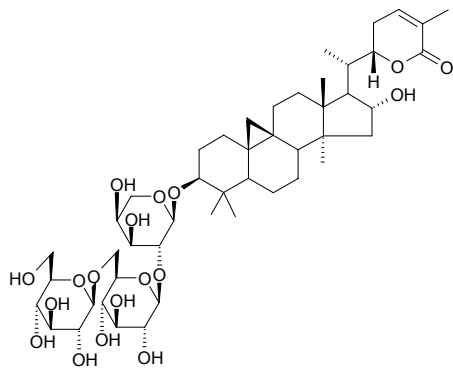
Immunosuppressant (mouse, suppressing proliferation of lymphocytes in allogeneic mixed lymphocyte reaction, IC₅₀ = 73 μ g/mL = 72 μ mol/L, control Cyclosporin A, IC₅₀ = 0.05 μ g/mL = 0.04 μ mol/L). **Source:** OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). **Ref:** 4349.

1549 Aquilegioside H

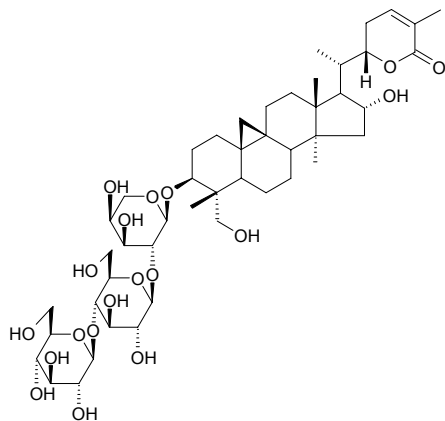
27-*O*- β -D-Glucopyranosyl-(20*S*,22*R*,24*S*,25*S*)-22,25-epoxy-3 β ,24,27-trihydroxy-cycloartan-16-one-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside C₄₈H₇₈O₂₀ (975.14). White powder, $[\alpha]_D^{25} = -32.4^\circ$ ($c = 0.50$, MeOH). Source: OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). Ref: 4370.

**1550 Aquilegioside I**

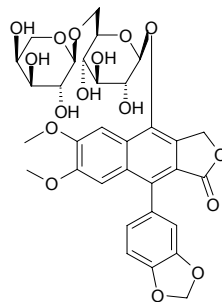
22*S*-3 β ,16 α -Dihydroxy-cycloart-24-en-26,22-olide 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside C₄₇H₇₄O₁₈ (927.10). White powder, $[\alpha]_D^{25} = -1.9^\circ$ ($c = 0.30$, MeOH). Source: OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). Ref: 4370.

**1551 Aquilegioside J**

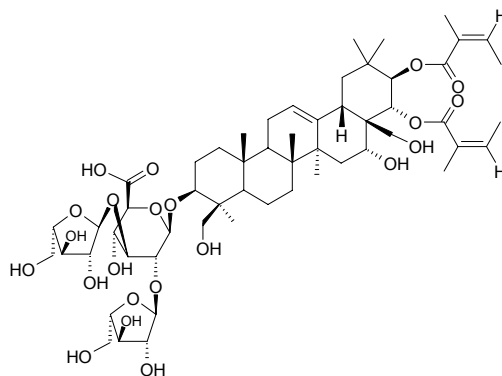
22*S*-3 β ,16 α -Dihydroxy-cycloart-24-en-26,22-olide-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside C₄₇H₇₄O₁₉ (943.10). White powder, $[\alpha]_D^{25} = +15.2^\circ$ ($c = 0.30$, MeOH). Source: OU ZHOU LOU DOU CAI *Aquilegia vulgaris* (aerial parts). Ref: 4370.

**1552 Arabelline**

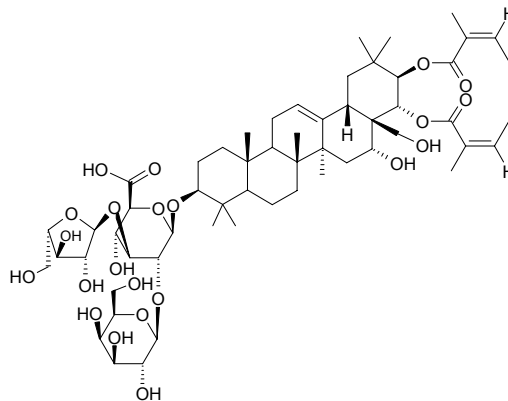
C₃₂H₃₄O₁₆ (674.62). Pharm: Cytotoxic (hmn LoVo Cell Line *in vitro*, IC₅₀ = (63.21 \pm 6.21) μ L/mL). Source: *Haplophyllum patavinum* (shoot). Ref: 4206.

**1553 3-*O*- α -L-Arabinofuranosyl-(1 \rightarrow 3)-[α -L-arabinofuranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin**

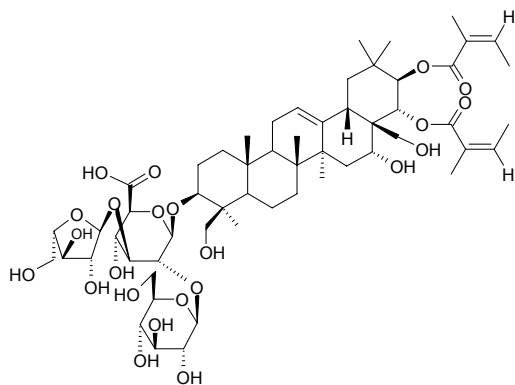
C₅₆H₈₆O₂₂ (1111.30). $[\alpha]_D^{21} = -32.3^\circ$ ($c = 0.13$, MeOH). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem bark). Ref: 5269.

**1554 3-*O*- α -L-Arabinofuranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylbarringtonol C**

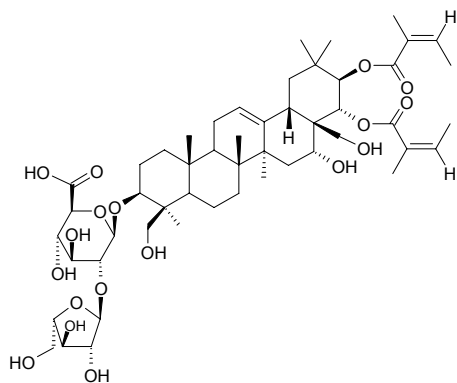
C₅₇H₈₈O₂₂ (1125.32). $[\alpha]_D^{21} = -10.9^\circ$ ($c = 0.53$, MeOH). Pharm: Hemolytic. Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem bark). Ref: 5269.



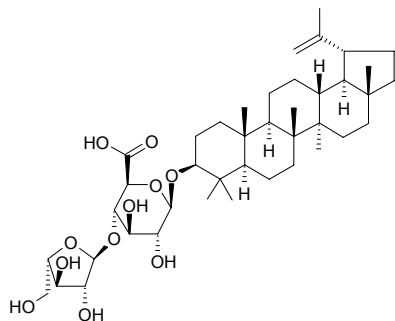
1555 3-*O*- α -L-Arabinofuranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin
 C₅₇H₈₈O₂₃ (1141.32). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem bark). Ref: 5269.



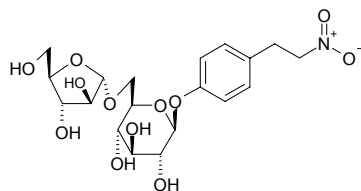
1556 3-*O*- α -L-Arabinofuranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin
 C₅₁H₇₈O₁₈ (979.18). [α]_D²¹ = -25.5° (c = 0.11, MeOH). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem bark). Ref: 5269.



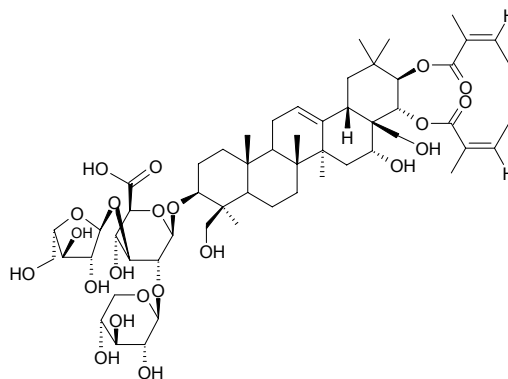
1557 α -L-Arabinofuranosyl-(1 \rightarrow 4)-*O*- β -D-glucuronopyranosyl-(1 \rightarrow 3)-3 β -hydroxy-lup-20(29)-ene
 C₄₁H₆₆O₁₁ (734.98). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2083.



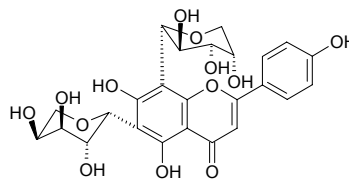
1558 6'-*O*- α -L-Arabinofuranosylthaliactoside
 C₁₉H₂₇NO₁₂ (461.43). Yellowish oil, easily soluble in H₂O and MeOH. Source: ZHONG JIAN WU WEI ZI *Schisandra propinqua* var. *intermedia* (stem). Ref: 4845.



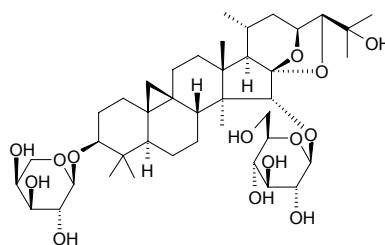
1559 3-*O*- α -L-Arabinofuranosyl-(1 \rightarrow 3)-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin
 C₅₆H₈₆O₂₂ (1111.30). [α]_D²¹ = -13.2° (c = 0.25, MeOH). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem bark). Ref: 5269.



1560 6-*C*- β -L-Arabinopyranosyl-8-*C*- α -L-arabinopyranosylapigenin
 C₂₅H₂₆O₁₃ (534.45). Amorphous yellow powder (MeOH), mp 206~208°C, [α]_D²⁵ = -42.0° (c = 0.55, DMSO). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00015%dw). Ref: 4665.

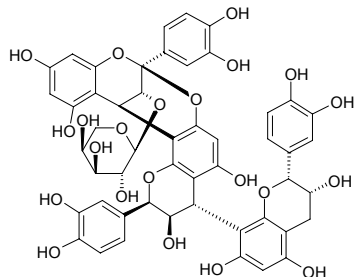


1561 3-*O*- α -L-Arabinopyranosylcimigenol 15-*O*- β -D-glucopyranoside
 C₄₁H₆₆O₁₄ (782.97). White powder (MeOH), mp 224~225°C, [α]_D = +15.9° (c = 0.32, MeOH). Source: XING AN SHENG MA *Cimicifuga dahurica* (rhizome). Ref: 4140.

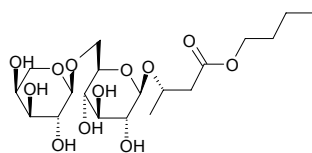


1562 3*O*- α -L-Arabinopyranosylcinnamtannin B₁

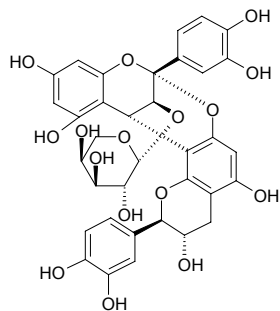
C₅₀H₄₄O₂₂ (996.89). Light-brown amorphous powder, $[\alpha]_D^{20} = +17.1^\circ$ ($c = 1$, MeOH). **Pharm:** Antioxidant (inhibits NADPH-dependent lipid peroxidation in microsomes and autoxidation of linoleic acid); DPPH scavenger (effectively scavenges DPPH radical). **Source:** KE KE *Theobroma cacao*. **Ref:** 2023.

**1563 3-*O*- α -L-Arabinopyranosyl-(1→6)- β -*D*-glucopyranoside of butyl (3*S*)-hydroxybutanoate**

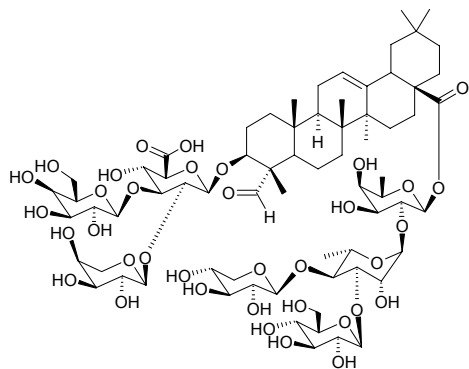
C₁₉H₃₄O₁₂ (454.48). **Source:** DENG LONG CAO *Physalis peruviana*. **Ref:** 1997.

**1564 3*T*-*O*-Arabinopyranosyl-*ent*-epicatechin-(2 α →7,4 α →8)-catechin**

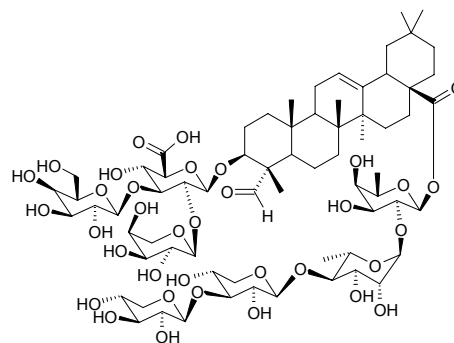
C₃₅H₃₂O₁₆ (708.64). Light-brown amorphous powder, $[\alpha]_D^{20} = -16.4^\circ$ ($c = 1$, MeOH). **Pharm:** Antioxidant (inhibits NADPH-dependent lipid peroxidation in microsomes and autoxidation of linoleic acid); free radical scavenger (effectively scavenges DPPH radical). **Source:** KE KE *Theobroma cacao*. **Ref:** 2023.

**1565 3-*O*- α -L-Arabinopyranosyl-(1→2)-[β -*D*-galactopyranosyl-(1→3)]- β -*D*-glucuronopyranosylgypsogenin-28-*O*- β -*D*-glucopyranosyl(1→3)-[β -*D*-xylopyranosyl-(1→4)]- α -*L*-rhamnopyranosyl-(1→2)- β -*D*-fucopyranoside**

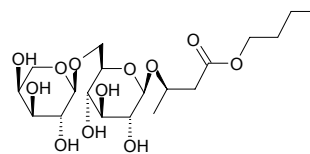
C₇₀H₁₁₀O₃₆ (1527.64). White amorphous powder, $[\alpha]_D^{20} = -6^\circ$ ($c = 0.10$, MeOH). **Source:** LAO NIU JIN *Arenaria juncea* (root). **Ref:** 3095.

**1566 3-*O*- α -L-Arabinopyranosyl-(1→2)-[β -*D*-galactopyranosyl-(1→3)]- β -*D*-glucuronopyranosylgypsogenin-28-*O*- β -*D*-xylopyranosyl-(1→3)- β -*D*-xylopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→2)- β -*D*-fucopyranoside**

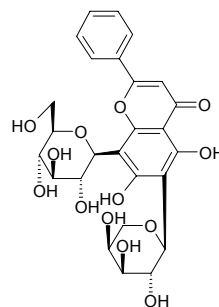
C₆₉H₁₀₈O₃₅ (1497.61). White amorphous powder, $[\alpha]_D^{20} = +5^\circ$ ($c = 0.10$, MeOH). **Source:** LAO NIU JIN *Arenaria juncea* (root). **Ref:** 3095.

**1567 3-*O*- α -L-Arabinopyranosyl-(1→6)- β -*D*-glucopyranoside of butyl (3*R*)-hydroxybutanoate**

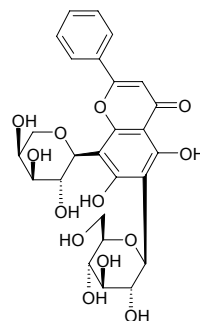
C₁₉H₃₄O₁₂ (454.48). **Source:** DENG LONG CAO *Physalis peruviana*. **Ref:** 1997.

**1568 6-*C*-Arabinopyranosyl-8-*C*-glucopyranosyl-5,7-dihydroxyflavone**

C₂₆H₂₈O₁₃ (548.51). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 1557.

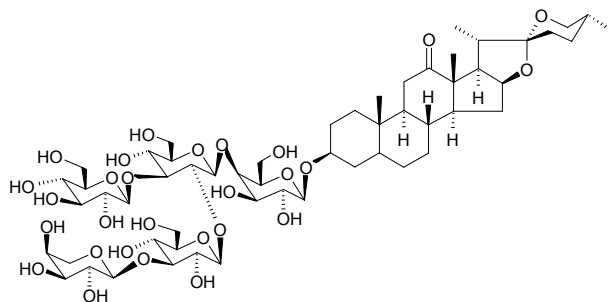
**1569 8-*C*-Arabinopyranosyl-6-*C*-glucopyranosyl-5,7-dihydroxyflavone**

C₂₆H₂₈O₁₃ (548.51). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 1557.



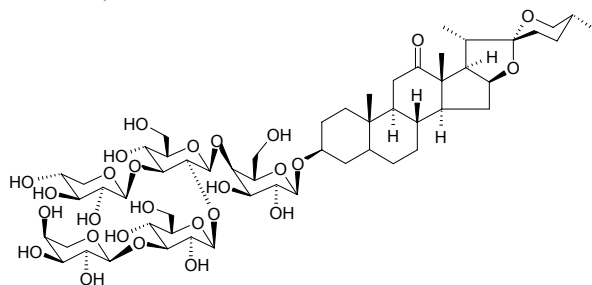
1570 (25R)-3β-[(O-α-L-Arabinopyranosyl-(1→3)-β-D-glucopyranosyl-(1→2)-O-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl]oxy]-5α-spirostan-12-one

C₅₆H₉₀O₂₈ (1211.32). Amorphous solid, [α]_D²⁶ = -24.0° (c = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, IC₅₀ = 9μg/mL; HSC-2, IC₅₀ = 13μg/mL; control Etoposide: HL-60, IC₅₀ = 0.3μg/mL; HSC-2, IC₅₀ = 24.4μg/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (underground part: yield = 0.0041%dw). **Ref:** 4651.



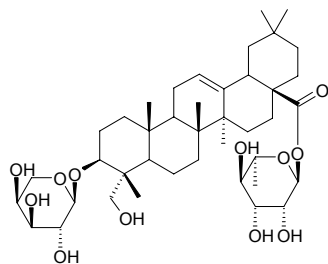
1571 (25R)-3β-[(O-α-L-Arabinopyranosyl-(1→3)-β-D-glucopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl]oxy]-5α-spirostan-12-one

C₅₅H₈₈O₂₇ (1181.3). Amorphous solid, [α]_D²⁶ = -30.0° (c = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, IC₅₀ = 4.4μg/mL; HSC-2, IC₅₀ = 2.2μg/mL; control Etoposide: HL-60, IC₅₀ = 0.3μg/mL; HSC-2, IC₅₀ = 24.4μg/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (underground part: yield = 0.0085%dw). **Ref:** 4651.



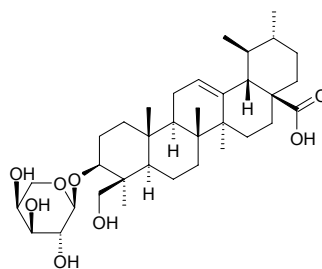
1572 3-O-α-L-Arabinopyranosyl hederagenin 28-O-α-L-rhamnopyranosyl ester

C₄₁H₆₆O₁₂ (750.98). Colorless needles (MeOH), mp 272~274°C, [α]_D²⁵ = +46.7° (c = 0.1, MeOH). **Pharm:** Antifungal (*Penicillium avellaneum*, MIA = 10μg/dish, control Amphotericin B, MIA = 0.04μg/dish; *Candida glabrata*, MIA = 8μg/dish, Amphotericin B, MIA = 0.8μg/dish; *Saccharomyces cerevisiae*, MIA = 2μg/dish, Amphotericin B, MIA = 3.2μg/dish; *T. beigelii*, MIA = 10μg/dish, Amphotericin B, MIA = 0.8μg/dish; *P. oryzae*, MIA = 20μg/dish, Amphotericin B, MIA = 0.08μg/dish). **Source:** GAN QING TIE XIAN LIAN *Clematis tangutica*. **Ref:** 5413.



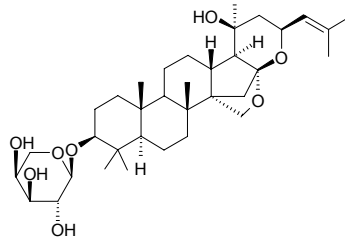
1573 3-O-α-L-Arabinopyranosyl-23-hydroxyursolic acid

C₃₅H₅₆O₈ (604.83). White amorphous powder (MeOH-CH₂Cl₂), 280~281°C, [α]_D³¹ = +65.2° (c = 0.046, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, RAW264.7, inhibits LPS-induced NO and PGE₂ release). **Source:** *Cussonia bancoensis*. **Ref:** 5016.



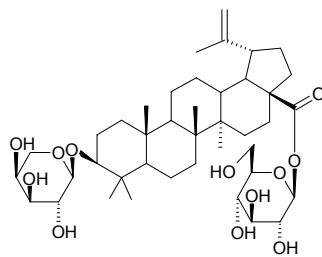
1574 3-β-O-α-L-Arabinopyranosyl jujubogenin

C₃₅H₅₆O₈ (604.83). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.0026%fw). **Ref:** 4664.



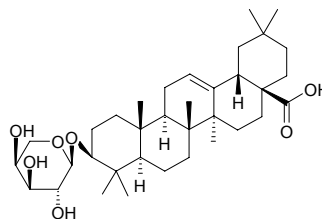
1575 3β-D-O-(α-L-Arabinopyranosyl)-lup-20(29)-ene-28-O-β-D-glucopyranosyl ester

C₄₁H₆₆O₁₂ (750.98). White powder, [α]_D²⁵ = +93° (c = 0.1, MeOH). **Pharm:** Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 0.19μmol/L, HEK-293, IC₅₀ = 0.26μmol/L, WEHI-164, IC₅₀ = 0.55μmol/L; control 6-Mercaptopurine, J774.A1, IC₅₀ = 0.003μmol/L, HEK-293, IC₅₀ = 0.007μmol/L, WEHI-164, IC₅₀ = 0.015μmol/L). **Source:** YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). **Ref:** 5036.



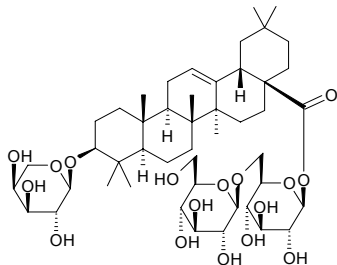
1576 3-O-α-L-Arabinopyranosyloleanolic acid

C₃₅H₅₆O₇ (588.83). **Pharm:** Cytotoxic (A2780, IC₅₀ = (8.6±0.3)μg/mL; control Actinomycin D, IC₅₀ = 2~5ng/mL). **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 5397.



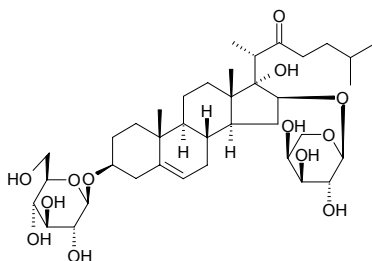
1577 3-O- α -L-Arabinopyranosyl oleanolic acid 28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

Oleanolic acid-3-O- α -L-arabinopyranosyl-28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₄₇H₇₆O₁₇ (913.12). White powder, mp 227~230°C, [α]_D¹⁹ = +6.2° (*c* = 0.25, methanol). **Source:** CHUAN XU DUAN *Dipsacus asperoides*, REN DONG TENG *Lonicera japonica*. **Ref:** 201, 2791.



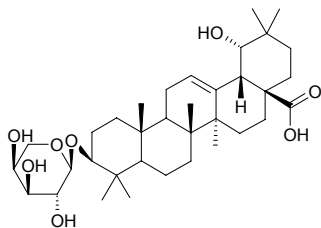
1578 16β-[(α -L-Arabinopyranosyl)oxy]-3β-[(β -D-glucopyranosyl)oxy]-17 α -hydroxycholest-5-en-22-one

C₃₈H₆₂O₁₃ (726.91). Amorphous solid, [α]_D²⁵ = -40.0° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (HL-60 cells, IC₅₀ = 0.053 μmol/L, control Etoposide, IC₅₀ = 0.025 μmol/L). **Source:** XIA FENG XIN ZI *Galtonia candicans* (bulb). **Ref:** 4116.



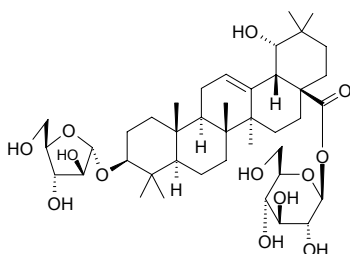
1579 3β-[(α -L-Arabinopyranosyl)oxy]-19 α -hydroxyolean-12-en-28-oic acid

C₃₅H₅₆O₈ (604.83). White amorphous powder, [α]_D^{28.4} = +24.7° (*c* = 0.64, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



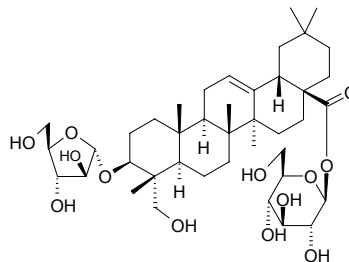
1580 3β-[(α -L-Arabinopyranosyl)oxy]-19 α -hydroxyolean-12-en-28-oic acid 28-β-D-glucopyranosyl ester

C₄₁H₆₆O₁₃ (766.98). Amorphous solid, [α]_D²⁵ = +14.0° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic inactive (HSC-2, IC₅₀ > 200 μg/mL; HGF, IC₅₀ > 200 μg/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



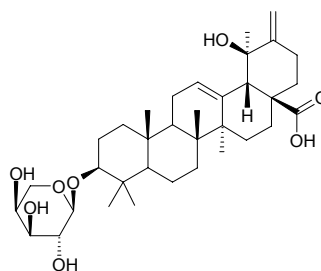
1581 3β-[(α -L-Arabinopyranosyl)oxy]-23-hydroxyolean-12-en-28-oic acid 28-β-D-glucopyranosyl ester

C₄₁H₆₆O₁₃ (766.98). **Pharm:** Cytotoxic (HSC-2, IC₅₀ = 18 μg/mL; HGF, IC₅₀ > 200 μg/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



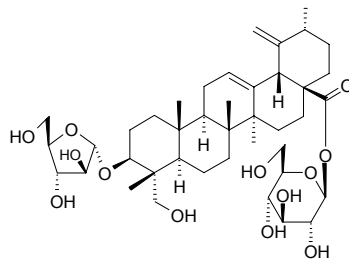
1582 3β-[(α -L-Arabinopyranosyl)oxy]-19β-hydroxyurs-12,20(30)-dien-28-oic acid

C₃₅H₅₄O₈ (602.82). White amorphous powder, [α]_D^{28.2} = +30.8° (*c* = 0.52, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



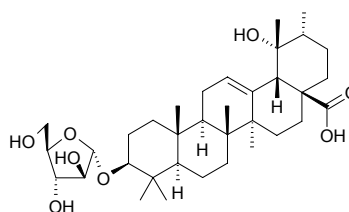
1583 3β-[(α -L-Arabinopyranosyl)oxy]-23-hydroxyurs-12,19(29)-dien-28-oic acid 28-β-D-glucopyranosyl ester

C₄₁H₆₄O₁₃ (764.96). Amorphous solid, [α]_D²⁵ = +24.0° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (HSC-2, IC₅₀ = 15 μg/mL; HGF, IC₅₀ > 200 μg/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



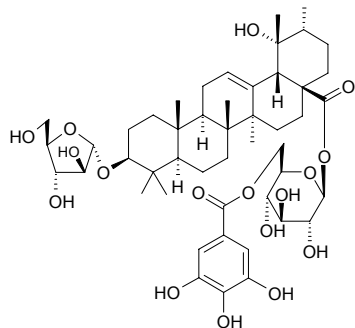
1584 3β-[(α -L-Arabinopyranosyl)oxy]-19 α -hydroxyurs-12-en-28-oic acid

C₃₅H₅₆O₈ (604.83). **Pharm:** Cytotoxic inactive (HSC-2, IC₅₀ > 200 μg/mL; HGF, IC₅₀ > 200 μg/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



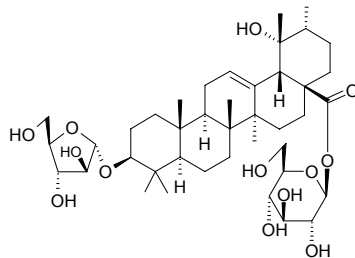
1585 3 β -[(α -L-Arabinopyranosyl)oxy]-19 α -hydroxyurs-12-en-28-oic acid 28-(6-O-galloyl- β -D-glucopyranosyl)ester

C₄₈H₇₀O₁₇ (919.08). Pale-yellow amorphous solid, $[\alpha]_D^{25} = +10.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HSC-2, IC₅₀ = 79 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



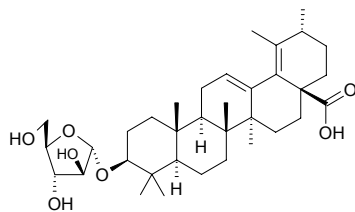
1586 3 β -[(α -L-Arabinopyranosyl)oxy]-19 α -hydroxyurs-12-en-28-oic acid 28- β -D-glucopyranosyl ester

C₄₁H₆₆O₁₃ (766.98). **Pharm:** Cytotoxic (HSC-2, IC₅₀ = 153 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



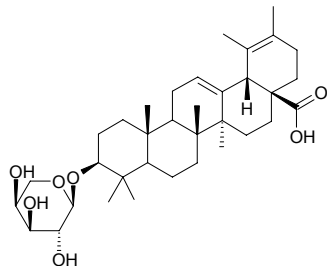
1587 3 β -[(α -L-Arabinopyranosyl)oxy]urs-12,18-dien-28-oic acid

C₃₅H₅₄O₇ (586.82). Amorphous solid, $[\alpha]_D^{25} = +112.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic inactive (HSC-2, IC₅₀ > 200 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



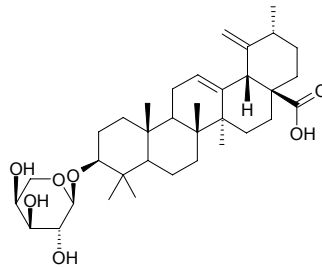
1588 3 β -[(α -L-Arabinopyranosyl)oxy]-urs-12,19-dien-28-oic acid

C₃₅H₅₄O₇ (586.82). White amorphous powder, $[\alpha]_D^{30.4} = -0.32^\circ$ ($c = 0.30$, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



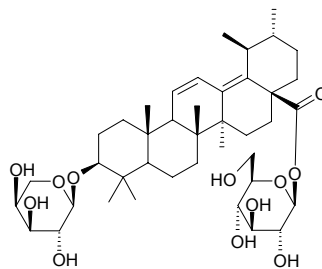
1589 3 β -[(α -L-Arabinopyranosyl)oxy]-urs-12,19(29)-dien-28-oic acid

C₃₅H₅₄O₇ (586.82). White amorphous powder, $[\alpha]_D^{28.2} = +18.4^\circ$ ($c = 0.38$, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



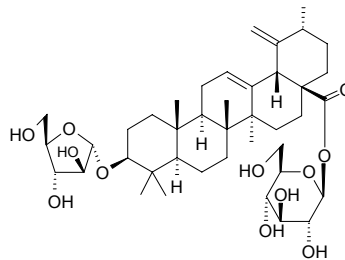
1590 3 β -[(α -L-Arabinopyranosyl)oxy]-urs-11,13(18)-dien-28-oic acid β -D-glucopyranosyl ester

C₄₁H₆₄O₁₂ (748.96). White amorphous powder, $[\alpha]_D^{29.7} = -25.4^\circ$ ($c = 0.26$, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



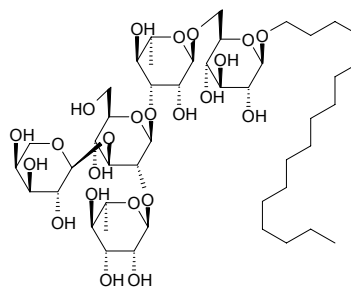
1591 3 β -[(α -L-Arabinopyranosyl)oxy]urs-12,19(29)-dien-28-oic acid 28- β -D-glucopyranosyl ester

C₄₁H₆₄O₁₂ (748.96). Amorphous solid, $[\alpha]_D^{25} = +12.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HSC-2, IC₅₀ = 50 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5160.



1592 1-O-[(α -L-Arabinopyranosyl-(1 \rightarrow 3)]- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl] hexadecanol

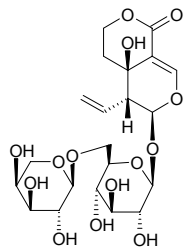
C₄₅H₈₂O₂₃ (991.14). $[\alpha]_D = -26.7^\circ$ ($c = 0.225$, CH₃OH). **Source:** YAN SE LONG YAN *Dimocarpus fumatus*. **Ref:** 1853.



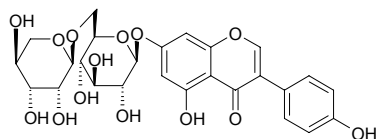
1593 6'-O- α -L-Arabinopyranosylswertiamarin

$C_{21}H_{30}O_{14}$ (506.46). Amorphous powder, $[\alpha]_D^{27} = -92.7^\circ$ ($c = 0.2$, MeOH).

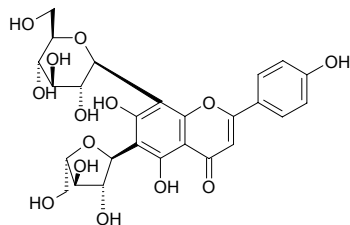
Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**1594 6''- β -D-Arabinose-genistin**

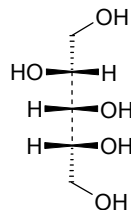
$C_{26}H_{28}O_{14}$ (564.50). Amaranth powder, easily soluble in methanol and alcohol, soluble in water. Source: HEI DA DOU *Glycine max*. Ref: 2457.

**1595 6-C-Arabinosyl-8-C-glucosyl apigenin**

$C_{26}H_{28}O_{14}$ (564.50). Source: QI GU CAO *Sagina japonica* [Syn. *Spergula japonica*] Ref: 660.

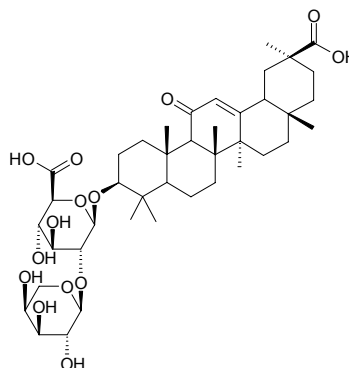
**1596 D-Arabitol**

D-Arabinitol [488-82-4] $C_5H_{12}O_5$ (152.15). Amorphous powder, $[\alpha]_D^{21} = -7^\circ$, mp 103°C . Pharm: Sweetener. Source: E LI *Persea americana* [Syn. *Persea gratissima*], HU SUI ZI *Coriandrum sativum*, JIN SI DAI *Alectoria vivens*, PI QI QIE *Fabiana imbricata*, XUE CHA *Thamnia vermicularis*. Ref: 6, 658, 4302.

**1597 Araboglycyrrhizin**

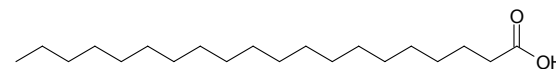
$C_{41}H_{62}O_{14}$ (778.94). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*.

Ref: 660.

**1598 Arachidic acid**

[506-30-9] $C_{20}H_{40}O_2$ (312.54). mp 77°C , bp $203\sim 205^\circ\text{C}$. Pharm: Lubricant.

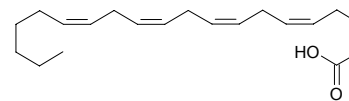
Source: BA DOU *Croton tiglium*, CU LIU GUO *Hippophae rhamnoides*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GUANG JIN QIAN CAO *Desmodium styracifolium*, HONG HUA *Carthamus tinctorius*, LUO HUA SHENG *Arachis hypogaea*, QIANG HUO *Notopterygium incisum*, XING REN *Prunus armeniaca*. Ref: 2, 260.

**1599 Arachidonic acid**

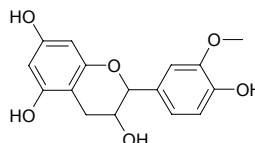
[506-32-1] $C_{20}H_{32}O_2$ (304.48). Pharm: Extends the period of fertility (rat);

gastric secretion inhibitor; uterine stimulant; dermatitis suppressant (pig and dog, treatment of eczema). Source: BEI MEI TING LI ZI *Lepidium virginicum*, HUANG YE DU XING CAI *Lepidium campestre*, PU HUANG

Typha angustata, XIAO YE GUAN ZHONG *Matteuccia struthiopteris*. Ref: 2, 658, 660.

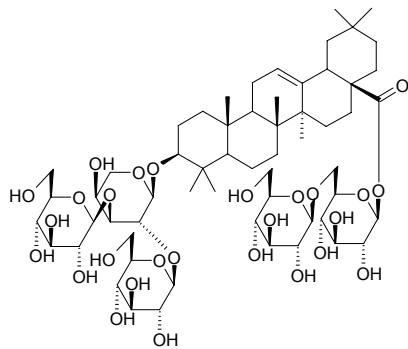
**1600 Arachidoside**

$C_{16}H_{16}O_6$ (304.30). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2.

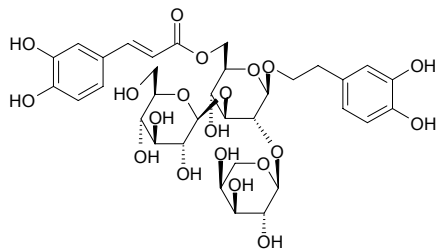


1601 Aradecoside D

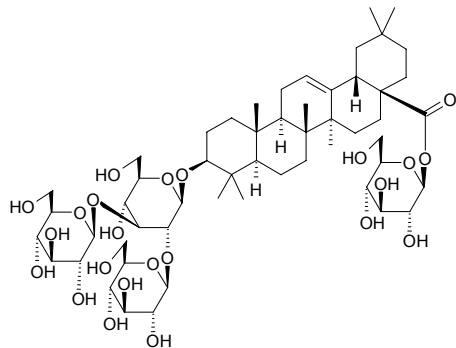
Oleanolic acid 3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)][β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl-28- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₉H₉₆O₂₇ (1237.41). White amorphous powder, mp 275~279°C. [Source](#): HUANG MAO CONG MU *Aralia decaisneae* (root cortex). [Ref](#): 4880.

**1602 Aragoside**

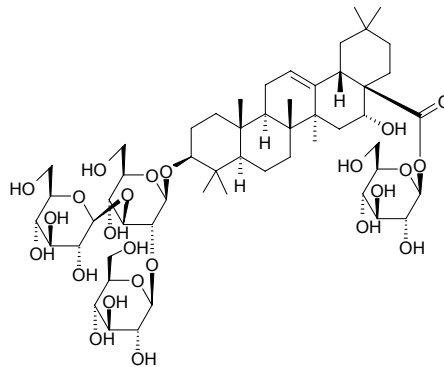
C₃₄H₄₄O₂₀ (772.72). [α]_D²⁰ = -51°. [Source](#): *Aragoa cundinamarcensis*. [Ref](#): 3436.

**1603 Aralia-saponin V**

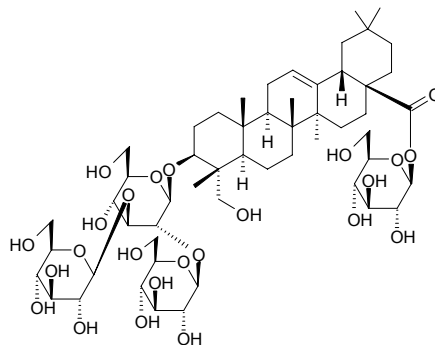
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl]oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester C₅₄H₈₈O₂₃ (1105.29). Colorless amorphous powder, [α]_D = -11.3° (*c* = 0.2, pyridine). [Source](#): LIAO DONG CONG MU *Aralia elata*. [Ref](#): 760.

**1604 Aralia-saponin VI**

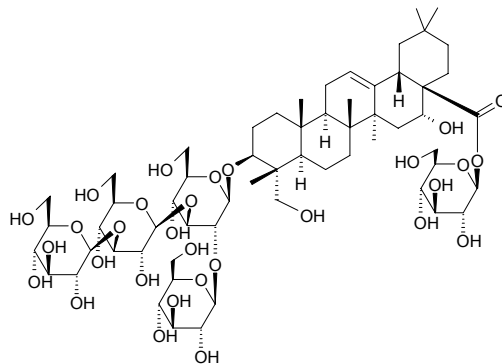
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl]echinocystic acid 28-*O*- β -*D*-glucopyranosyl ester C₅₄H₈₈O₂₄ (1121.29). Colorless amorphous powder, [α]_D = -18.8° (*c* = 0.2, pyridine). [Source](#): LIAO DONG CONG MU *Aralia elata*. [Ref](#): 760.

**1605 Aralia-saponin VII**

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl]hederagenin 28-*O*- β -*D*-glucopyranosyl ester C₅₄H₈₈O₂₄ (1121.29). Colorless amorphous powder, [α]_D = +23.1° (*c* = 0.3, pyridine). [Source](#): LIAO DONG CONG MU *Aralia elata*. [Ref](#): 760.

**1606 Aralia-saponin VIII**

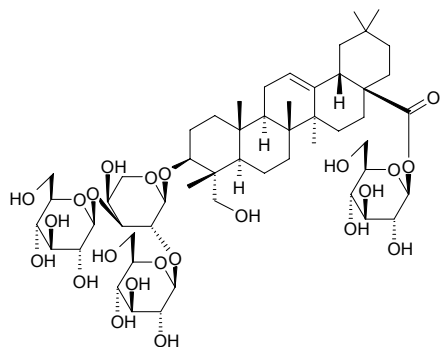
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl]oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester C₆₀H₉₈O₃₀ (1299.43). Colorless amorphous powder, [α]_D = +23.1° (*c* = 0.3, pyridine). [Source](#): LIAO DONG CONG MU *Aralia elata*. [Ref](#): 760.



1607 Aralia-saponin IX

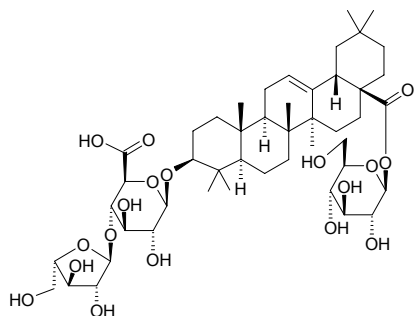
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl]hederagenin 28-*O*- β -*D*-glucopyranosyl ester C₅₃H₈₆O₂₃ (1091.26).

Colorless amorphous powder, $[\alpha]_D^{20} = +13.3^\circ$ ($c = 0.61$, pyridine). Source: LIAO DONG CONG MU *Aralia elata*. Ref: 760.

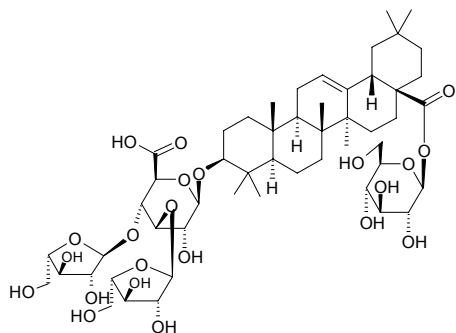
**1608 Araloside A**

Oleanoside E [7518-22-1] C₄₇H₇₄O₁₈ (927.10). Pharm: Used in treatment of neurosis (using the source plant LIAO DONG CONG MU, *Aralia elata*).

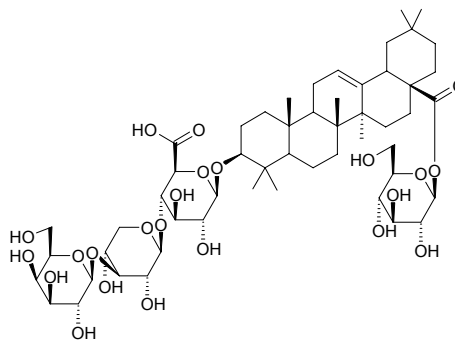
Source: LIAO DONG CONG MU *Aralia elata*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], CONG MU *Aralia chinensis*, TONG TUO MU *Tetrapanax papyriferus*, ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus*. Ref: 2, 6, 183, 235, 658.

**1609 Araloside B**

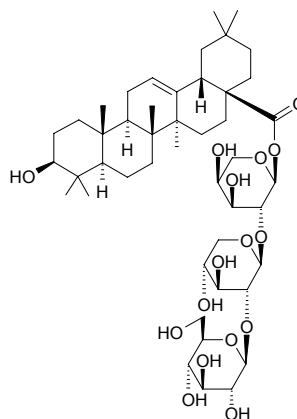
Oleanoside C [7518-23-2] C₅₂H₈₂O₂₂ (1059.22). $[\alpha]_D^{20} = -16.5^\circ$ ($c = 3.4$, methanol). Pharm: Treatment of neurasthenic syndrome. Source: LIAO DONG CONG MU *Aralia elata*. Ref: 6, 235, 658, 661.

**1610 Araloside C**

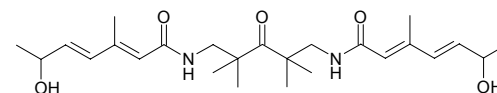
Oleanoside A C₅₃H₈₄O₂₃ (1089.25). Source: LIAO DONG CONG MU *Aralia elata*. Ref: 660.

**1611 Araloside D**

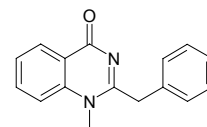
C₄₆H₇₄O₁₆ (883.09). White thin acicular powder, mp 157–158°C. Source: CONG MU *Aralia chinensis*. Ref: 183.

**1612 Arboreumine**

C₂₅H₄₀N₂O₅ (448.61). Amorphous solid. Pharm: antifungal (*Cladosporium sphaerospermum*, determined by direct bioautography). Source: QIAO MU HU JIAO *Piper arboreum*, LIU TU HU JIAO *Piper tuberculatum*. Ref: 2016.

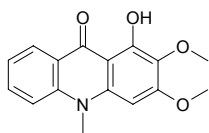
**1613 Arborine**

[6873-15-0] C₁₆H₁₄N₂O (250.30). Pharm: Antihypophyseal (mus uterus assay); antihypertensive (reduces blood pressure due to CNS, inhibits peripheral action of acetylcholine). Source: CHOU CAO *Ruta graveolens*. Ref: 658.

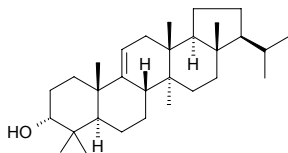


1614 Arborinine

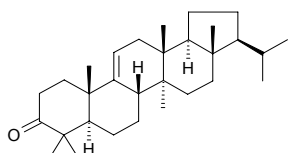
[5489-57-6] C₁₆H₁₅NO₄ (285.30). mp 175–176°C. **Pharm:** Antihistamine; anti-inflammatory; antispasmodic. **Source:** CHOU CAO *Ruta graveolens*. **Ref:** 6, 658.

**1615 Arborinol**

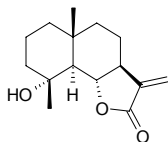
C₃₀H₅₀O (426.73). mp 274.0–274.5°C. **Source:** MAO CAO YE *Imperata cylindrica* var. *major*. **Ref:** 6.

**1616 Arborinone**

C₃₀H₄₈O (424.72). mp 214.0–214.5°C. **Source:** MAO CAO YE *Imperata cylindrica* var. *major*, JIN CAO *Hedyotis acutangula*. **Ref:** 6, 660.

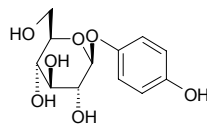
**1617 Arbusculin A**

[27652-22-8] C₁₅H₂₂O₃ (250.34). **Pharm:** Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 10 μg/mL; HeLa, CD₅₀ = 7.5 μg/mL; OVCAR-3, CD₅₀ = 7.5 μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μg/mL; HeLa, CD₅₀ = 5.2 μg/mL; OVCAR-3, CD₅₀ = 3 μg/mL; without significant antibacterial effect)^[4720]; plant growth regulator. **Source:** BEI MEI AI HAO *Artemisia arbuscula*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0015% dw)^[4720], SAN CHI HAO *Artemisia tridentata*. **Ref:** 658, 4720.

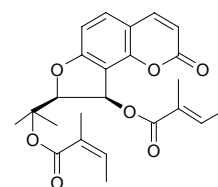
**1618 Arbutin**

[497-76-7] C₁₂H₁₆O₇ (272.26). Colorless acicular crystals, mp 200°C, [α]_D²⁵ = –64° (H₂O), soluble in water, ethanol.^[5507] **Pharm:** Antitussive; diuretic; antidiabetic, inhibits degradation of insulin (*in vitro*); tyrosinase inhibitor (mushroom tyrosinase, spectrophotometry method of Mason and Peterson, IC₅₀ = 24 mmol/L)^[4653]; low toxin. **Source:** FEI CAI *Sedum aizoon*, HOU YE YAN BAI CAI *Bergenia crassifolia*, HU ER CAO *Saxifraga stolonifera*, JI SHI TENG *Paederia scandens*, LI YE *Pyrus bretschneideri*^[5507], LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*] (stem: mean content in Sep. to Nov. = 2.21%; leaf: mean content in Sep. to Nov. = 7.00%)^[5508], QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*], RI BEN LU TI CAO *Pyrola japonica*, SHA LI YE *Pyrus pyrifolia*, TIAN NIU ZHI *Origanum majorana*, XI YANG LI *Pyrus communis*, XIONG GUO *Arctostaphylos uva-ursi* (leaf: content scope = 4%–6%)^[5507], YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf), YE LI ZHI YE *Pyrus*

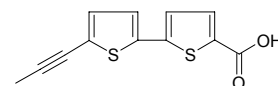
calleryana, YUAN YE LU TI CAO *Pyrola rotundifolia*, YUE JU YE *Vaccinium vitis-idaea* (leaf: content scope = 4%–6%)^[5507], content = 4.44%^[5508], ZHEN ZHU MEI *Sorbaria sorbifolia*. **Ref:** 4, 6, 658, 660, 2583, 5507, 5508.

**1619 Archangelicin**

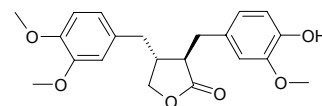
[2607-56-9] C₂₄H₂₆O₇ (426.47). mp 103–105°C. **Pharm:** Antispasmodic. **Source:** BING SHE CHUANG *Cnidium japonicum*, CHANG BIAN HUA DANG GUI *Angelica longeradiata*, KAI SHI DANG GUI *Angelica keiskei*, SHE CHUANG ZI *Cnidium monnieri*, YUAN DANG GUI *Angelica archangelica*. **Ref:** 6, 658.

**1620 Arctic acid**

[32155-99-0] C₁₂H₈O₂S₂ (248.32). **Source:** NIU BANG GEN *Arctium lappa*. **Ref:** 6.

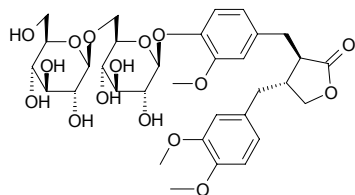
**1621 L-Arctigenin**

[7770-78-7] C₂₁H₂₄O₆ (372.42). mp [*cis*(–)] 102°C. **Pharm:** Antineoplastic (lymphoma); cyclo-adenyl mononucleotide phosphodiesterase inhibitor; aldose reductase inhibitor inactive (IC₅₀ > 100 μmol/L, 100 μmol/L InRt = 16%, control Epalrestat, IC₅₀ = 0.072 μmol/L)^[4530]; cytotoxic (A549, ED₅₀ = 5.6 [μ]mol/L, ED₅₀ = 15.1 [μ]g/mL, control Adriamycin, ED₅₀ = 0.01 [μ]mol/L, ED₅₀ = 0.02 [μ]g/mL; MCF7, ED₅₀ = 10.4 [μ]mol/L, ED₅₀ = 27.9 [μ]g/mL, Adriamycin, ED₅₀ = 0.1 [μ]mol/L, ED₅₀ = 0.1 [μ]g/mL; HT29, ED₅₀ = 9.6 [μ]mol/L, ED₅₀ = 26.0 [μ]g/mL, Adriamycin, ED₅₀ = 0.1 [μ]mol/L, ED₅₀ = 0.1 [μ]g/mL)^[5088]. **Source:** E SHEN *Anthriscus sylvestris*, JIN ZHONG HUA *Forsythia viridissima*, LIAO GE WANG GEN *Wikstroemia indica*, NIU BANG ZI *Arctium lappa* (dried ripe fruit: content scope of 11 origins = 0.049%–0.354%, mean content = 0.170%)^[5508], SHUI MU XUE LIAN HUA *Saussurea medusa* (dried whole herb: content = 0.708%)^[5528], TAI WAN SHAN *Taiwania cryptomerioides* (heartwood), WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*], XUE LIAN *Saussurea involucreta*. **Ref:** 6, 658, 660, 4530, 5088, 5499, 5508, 5528.

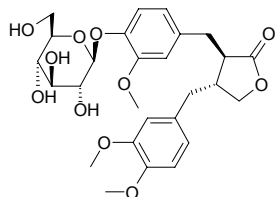


1622 Arctigenin 4'-gentiobioside

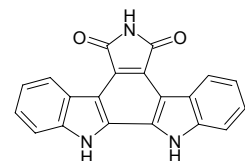
$C_{33}H_{44}O_{16}$ (696.71). **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 6.

**1623 Arctiin**

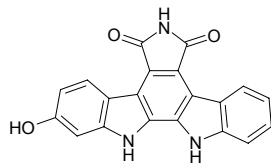
[20362-31-6] $C_{27}H_{34}O_{11}$ (534.57). mp 111~112°C. **Pharm:** Aldose reductase. Inhibitor (IC₅₀ = 20 μmol/L, control Epalrestat, IC₅₀ = 0.072 μmol/L). **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*], JIN ZHONG HUA *Forsythia viridissima*, LUO SHI TENG *Trachelospermum jasminoides*, NIU BANG ZI *Arctium lappa* (dried ripe fruit: content scope = 1.49%~9.96%, mean content = 6.57%^[5508]), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 6, 7, 288, 660, 4530, 5501, 5508.

**1624 Arcyriaflavin A**

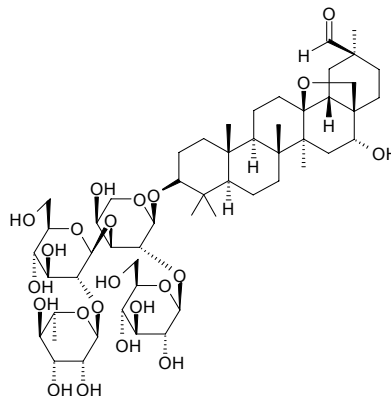
$C_{20}H_{11}N_3O_2$ (325.33). **Pharm:** Cytotoxic (HeLa cells, IC₅₀ = 47.6 μg/mL). **Source:** FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). **Ref:** 4465.

**1625 Arcyriaflavin B**

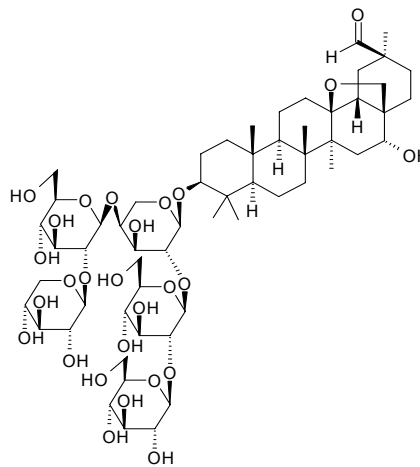
$C_{20}H_{11}N_3O_3$ (341.33). **Pharm:** Cytotoxic (HeLa cells, IC₅₀ = 4.4 μg/mL; KB-VIN, IC₅₀ = 2.28 μg/mL, no reversal effect of VCR resistance; a panel assay of 39 hmn cancer cell lines: NCI-H522 lung cancer cells, LC₅₀ = 6.2 μmol/L, DMS273 lung cancer cells, LC₅₀ = 6.7 μmol/L, BSY1 breast cancer cells, LC₅₀ = 6.8 μmol/L, SF539 CNS cancer cells, LC₅₀ = 6.9 μmol/L, SNB78 CNS cancer cells, LC₅₀ = 51 μmol/L, HT29 colon cancer cells, LC₅₀ = 55 μmol/L, NCI-H226 lung cancer cells, LC₅₀ = 58 μmol/L, MKN28 stomach cancer cells, LC₅₀ = 55 μmol/L). **Source:** HUI JIN SE TUAN WANG JUN *Arcyria cinerea* (wild sporocarp), FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). **Ref:** 4465.

**1626 Ardipusilloside I**

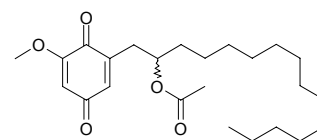
3-*O*-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→3)] [β -D-glucopyranosyl-(1→2)]- α -L-arabinopyranosyl cyclamiretin A [153127-34-5] $C_{53}H_{86}O_{22}$ (1075.26). White acicular crystals, mp 239~241°C, [α]_D^{22.8} = -26.6° (c = 0.93, MeOH). **Pharm:** Antineoplastic (S₁₈₀, ESC and B16); immunoenhancer. **Source:** CHUAN CHAN JIU JIE LONG *Ardisia pusilla*. **Ref:** 276.

**1627 Ardipusilloside II**

3-*O*-[α -L-Xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→4)] [β -D-glucopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)]- α -L-rhamnopyranosyl cyclamiretin A [153127-35-6] $C_{58}H_{94}O_{27}$ (1223.38). White powder, mp 279~281°C, [α]_D^{22.5} = -21.91° (c = 0.79, C₅H₅N). **Pharm:** Antineoplastic (S₁₈₀, ESC and B16); immunoenhancer. **Source:** CHUAN CHAN JIU JIE LONG *Ardisia pusilla*. **Ref:** 276.

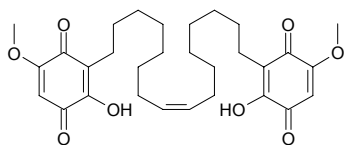
**1628 Ardisianone**

[66398-68-3] $C_{24}H_{38}O_5$ (406.57). **Pharm:** Leukotriene inhibitor; antiasthmatic. **Source:** LUO SAN SHU *Ardisia quinquegona*, XIAN CHI ZI JIN NIU *Ardisia cornudentata*. **Ref:** 658.

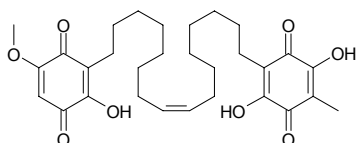


1629 Ardisiaquinone A

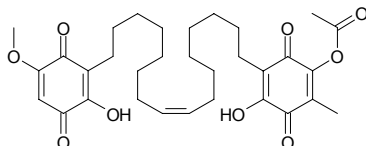
$C_{30}H_{40}O_8$ (528.65). Light yellow, mp 154°C. Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex; in 1968 the compound was isolated from the plant by Hideco Ogawa et al.)^[5505]. Ref: 5236, 5505.

**1630 Ardisiaquinone B**

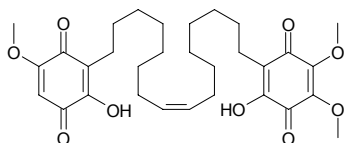
$C_{30}H_{40}O_8$ (528.65). Red, mp 119°C. Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex; the compound was isolated from the plant by Hideco Ogawa et al. in 1968)^[5505]. Ref: 5236, 5505.

**1631 Ardisiaquinone C**

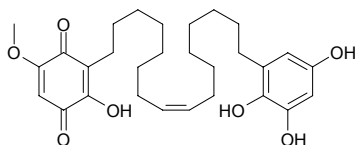
$C_{32}H_{42}O_9$ (570.69). Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex). Ref: 5236.

**1632 Ardisiaquinone D**

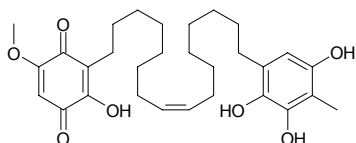
$C_{31}H_{42}O_9$ (558.67). Yellow amorphous powder. Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex). Ref: 5236.

**1633 Ardisiaquinone E**

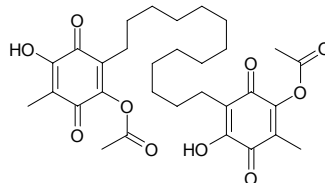
$C_{29}H_{40}O_7$ (500.64). Yellow amorphous powder. Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex). Ref: 5236.

**1634 Ardisiaquinone F**

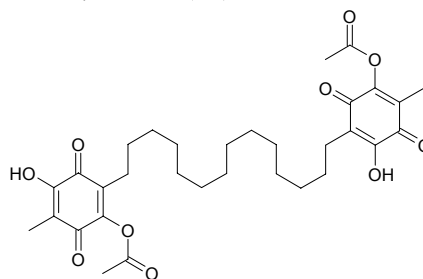
$C_{30}H_{42}O_7$ (514.67). Yellow amorphous powder. Source: DONG YA ZI JIN NIU *Ardisia sieboldii* (root cortex). Ref: 5236.

**1635 Ardisiaquinone G**

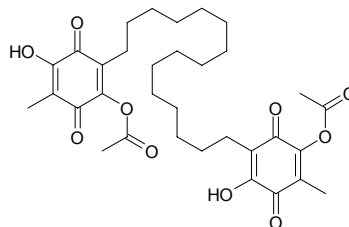
$C_{31}H_{40}O_{10}$ (572.66). Amorphous powder. Pharm: UDP-MurNac synthesis inhibitor (*in vitro*, $IC_{50} = 35 \mu\text{mol/L}$); antibacterial inactive (disk diffusion assay, *Staphylococcus aureus*, *Staphylococcus sanguis*, *Escherichia coli*, *Pseudomonas aeruginosa*). Source: *Ardisia teysmanniana* (leaf). Ref: 5236.

**1636 Ardisiaquinone H**

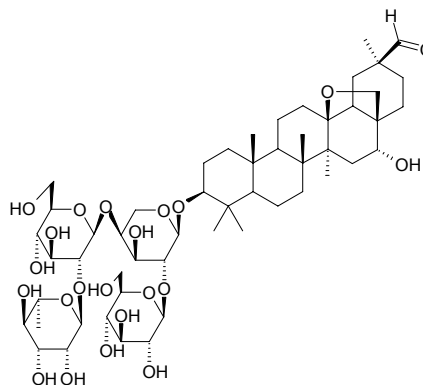
$C_{32}H_{42}O_{10}$ (586.69). Pharm: UDP-MurNac synthesis inhibitor (*in vitro*, $IC_{50} = 26 \mu\text{mol/L}$); antibacterial inactive (disk diffusion assay, *Staphylococcus aureus*, *Staphylococcus sanguis*, *Escherichia coli*, *Pseudomonas aeruginosa*). Source: *Ardisia teysmanniana* (leaf). Ref: 5236.

**1637 Ardisiaquinone I**

$C_{33}H_{44}O_{10}$ (600.71). Pharm: UDP-MurNac synthesis inhibitor (*in vitro*, $IC_{50} = 26 \mu\text{mol/L}$); antibacterial inactive (disk diffusion assay, *Staphylococcus aureus*, *Staphylococcus sanguis*, *Escherichia coli*, *Pseudomonas aeruginosa*). Source: *Ardisia teysmanniana* (leaf). Ref: 5236.

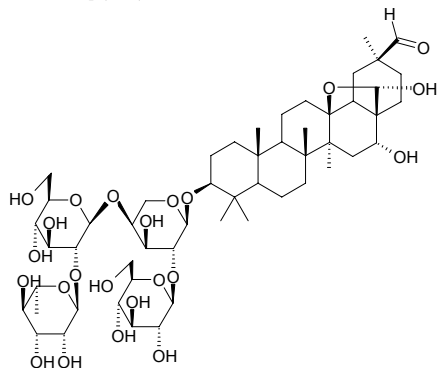
**1638 Ardisicrispin B**

$C_{53}H_{86}O_{22}$ (1075.26). Source: HU SHE HONG *Ardisia mamillata* [Syn. *Timus mamillata*] (root). Ref: 3990.

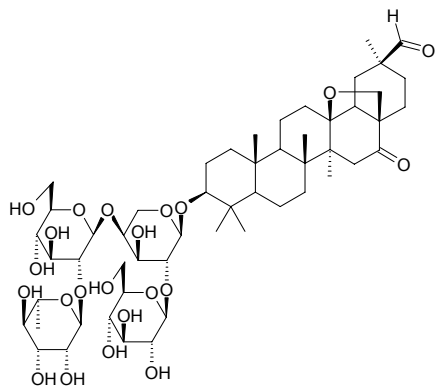


1639 Ardisimamilloside A

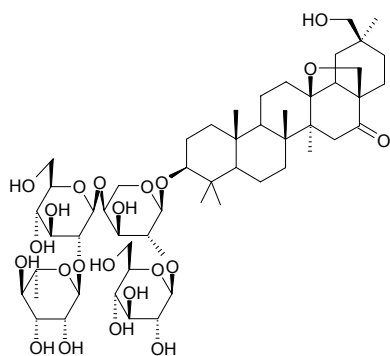
3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl}-3 β ,16 α ,28 α -trihydroxy-13 β ,28-epoxy-oleanan-30-al C₅₃H₈₆O₂₃ (1091.26). mp 235–236°C (dec), [α]_D²⁵ = -20.9° (*c* = 0.23, MeOH). **Source:** HU SHE HONG *Ardisia mamillata* [Syn. *Tinus mamillata*] (root). **Ref:** 3990.

**1640 Ardisimamilloside B**

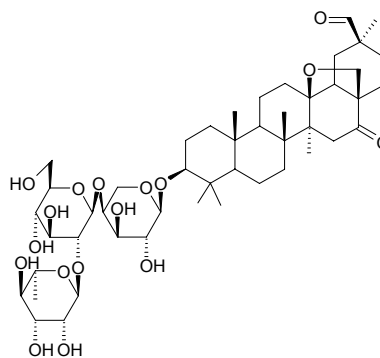
3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl}-3 β -hydroxy-13 β ,28-epoxy-oleanan-16-oxo-30-al C₅₃H₈₄O₂₂ (1073.25). mp 261–262°C (dec), [α]_D²⁵ = -23.5° (*c* = 0.24, MeOH). **Source:** HU SHE HONG *Ardisia mamillata* [Syn. *Tinus mamillata*] (root). **Ref:** 3990.

**1641 Ardisimamilloside G**

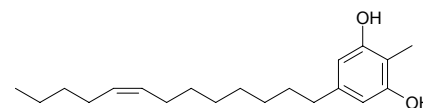
3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl}-13 β ,28-epoxy-16-oxo-oleanan-3 β ,30-diol C₅₃H₈₆O₂₂ (1075.26). [α]_D²⁵ = -22.6° (*c* = 0.83, MeOH). **Source:** HU SHE HONG *Ardisia mamillata* [Syn. *Tinus mamillata*] (root). **Ref:** 4362.

**1642 Ardisimamilloside H**

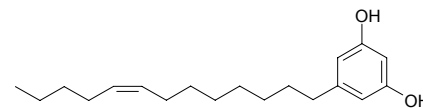
3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-arabinopyranosyl}-3 β -hydroxy-13 β ,28-epoxy-16-oxo-oleanan-30-al C₄₇H₇₄O₁₇ (911.10). [α]_D²⁵ = -12.7° (*c* = 0.23, MeOH). **Source:** HU SHE HONG *Ardisia mamillata* [Syn. *Tinus mamillata*] (root). **Ref:** 4362.

**1643 Ardisinol I**

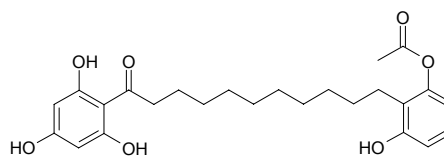
Ardisin [72629-62-0] C₂₀H₃₂O₂ (304.48). Lamellar crystals (petroleum ether), mp 46–47°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, 12.5 μ g/mL). **Source:** ZI JIN NIU *Ardisia japonica*. **Ref:** 658, 661.

**1644 Ardisinol II**

RouPELLIOL [62897-10-3] C₁₉H₃₀O₂ (290.45). Yellowish solid powder, mp 28–29°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, 25 μ g/mL). **Source:** ZI JIN NIU *Ardisia japonica*. **Ref:** 658, 661.

**1645 Ardisinone A**

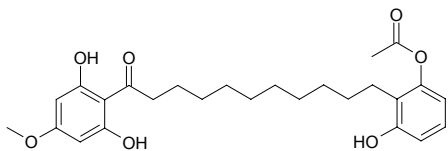
11-(2-Acetoxy-6-hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)-undecan-1-one C₂₅H₃₂O₇ (444.53). Pale yellow needles (CHCl₃), mp 103–104°C. **Pharm:** Antibacterial (*in vitro* disk diffusion assay: *Mycobacterium smegmatis*, active; *Staphylococcus aureus*, slight active; *Bacillus subtilis*, slight active). **Source:** XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb: yield = 0.0015%dw). **Ref:** 4769.



1646 Ardisinone B

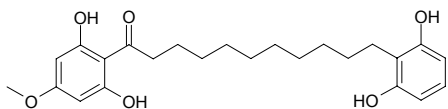
11-(2-Acetoxy-6-hydroxyphenyl)-1-(2,6-dihydroxy-4-methoxyphenyl)undecan-1-one $C_{26}H_{34}O_7$ (458.56). Pale yellow needles ($CHCl_3$), mp 68–69°C.

Pharm: Antibacterial inactive (*in vitro* disk diffusion assay: *Mycobacterium smegmatis*, *Staphylococcus aureus*, *Bacillus subtilis*). **Source:** XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb: yield = 0.0045%dw). **Ref:** 4769.

**1647 Ardisinone C**

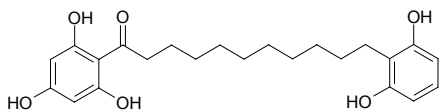
1-(2,6-Dihydroxy-4-methoxyphenyl)-11-(2,6-dihydroxyphenyl)undecan-1-one $C_{24}H_{32}O_6$ (416.52). White needles ($CHCl_3$), mp 108–109°C. **Pharm:**

Antibacterial inactive (*in vitro* disk diffusion assay: *Mycobacterium smegmatis*, *Staphylococcus aureus*, *Bacillus subtilis*). **Source:** XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb: yield = 0.0030%dw). **Ref:** 4769.

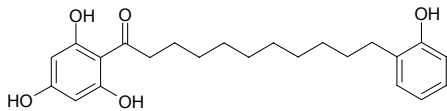
**1648 Ardisinone D**

1-(2,4,6-Trihydroxyphenyl)-11-(2,6-dihydroxyphenyl)undecan-1-one $C_{22}H_{30}O_6$ (402.49). Pale yellow needles ($CHCl_3$), mp 67–68°C. **Pharm:**

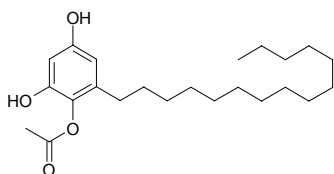
Antibacterial (*in vitro* disk diffusion assay: *Mycobacterium smegmatis*, active; *Staphylococcus aureus*, slight active; *Bacillus subtilis*, slight active). **Source:** XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb: yield = 0.0013%dw). **Ref:** 4769.

**1649 Ardisinone E**

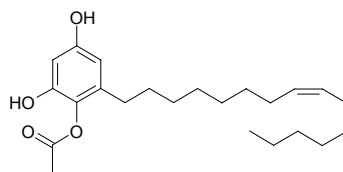
1-(2,4,6-Trihydroxyphenyl)-11-(2-hydroxyphenyl)undecan-1-one $C_{23}H_{30}O_5$ (386.49). White amorphous solid, mp 52–53°C. **Source:** XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb: yield = 0.00023%dw). **Ref:** 4769.

**1650 Ardisiphenol A**

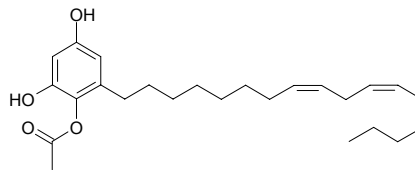
6-Pentadecyl-1,2,4-trihydroxybenzene-1-O-acetate $C_{23}H_{38}O_4$ (378.56). Colorless oil which darkens on exposure to air. **Pharm:** DPPH scavenger (60 μmol/L, InRt = 47%, control Trolox, $IC_{50} = (25.4 \pm 0.8) \mu\text{mol/L}$)^[4244]; cytotoxic (murine breast cancer cell line FM3A, $IC_{50} = 1.8 \mu\text{mol/L}$)^[4244]. **Source:** YOU SE ZI JIN NIU *Ardisia colorata* (fruit). **Ref:** 4244, 4152.

**1651 Ardisiphenol B**

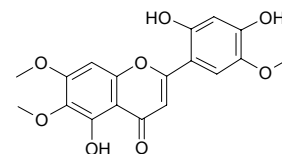
6-(8'Z-Pentadecenyl)-1,2,4-trihydroxybenzene-1-O-acetate $C_{23}H_{36}O_4$ (376.54). Colorless oil which darkens on exposure to air. **Pharm:** DPPH scavenger (60 μmol/L, InRt = 51%, control Trolox, $IC_{50} = (25.4 \pm 0.8) \mu\text{mol/L}$)^[4244]; cytotoxic (murine breast cancer cell line FM3A, $IC_{50} = 1.2 \mu\text{mol/L}$)^[4244]. **Source:** YOU SE ZI JIN NIU *Ardisia colorata* (fruit). **Ref:** 4244, 4152.

**1652 Ardisiphenol C**

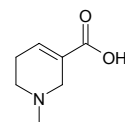
6-(8'Z,11'Z-Heptadecadienyl)-1,2,4-tetrahydroxybenzene-1-O-acetate $C_{25}H_{38}O_4$ (402.58). Colorless oil which darkens on exposure to air. **Pharm:** DPPH scavenger (60 μmol/L, InRt = 51%, control Trolox, $IC_{50} = (25.4 \pm 0.8) \mu\text{mol/L}$)^[4244]; cytotoxic (murine breast cancer cell line FM3A, $IC_{50} = 0.5 \mu\text{mol/L}$)^[4244]. **Source:** YOU SE ZI JIN NIU *Ardisia colorata* (fruit). **Ref:** 4244, 4152.

**1653 Areapillin**

5,2',4'-Trihydroxy-6,7,5'-trimethoxy flavone $C_{18}H_{16}O_8$ (360.32). **Source:** HUANG HUA HAO *Artemisia annua*, YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 660.

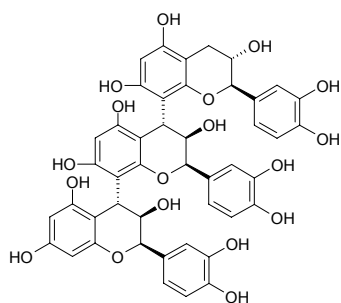
**1654 Arecaidine**

[499-04-7] $C_7H_{11}NO_2$ (141.17). mp 223–224°C (dec). **Pharm:** Astringent; CNS depressant (anesthetic cat, increases γ -propanaline and β -alanine to inhibit central nerve); inhibits englobement of γ -propanaline and β -alanine (cat, section of spinal cord); anthelmintic (tapeworms); causes miosis; induces sweatiness. **Source:** BING LANG *Areca catechu* (dried ripe seed: content scope 0.31%–0.66%, middle value = 0.49%^[5508]). **Ref:** 2, 658, 5501, 5508.

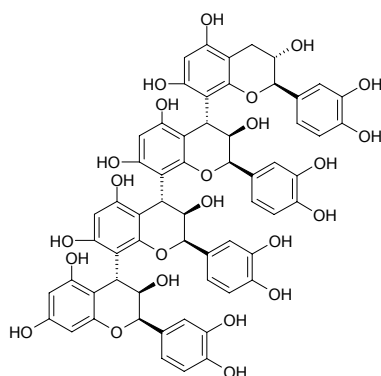


1655 Arecatannin A₁

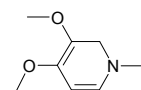
C₄₅H₃₈O₁₈ (866.79). Source: BING LANG *Areca catechu*, TAI DA SONG *Pinus taeda*. Ref: 660, 1521.

**1656 Arecatannin A₂**

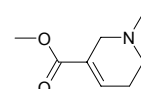
C₆₀H₅₀O₂₄ (1155.05). Source: BING LANG *Areca catechu*. Ref: 660, 1521.

**1657 Arecolidine**

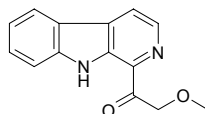
[57680-57-6] C₈H₁₃NO₂ (155.20). Source: BING LANG *Areca catechu*. Ref: 2.

**1658 Arecoline**

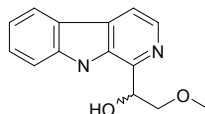
Arecoline; Methylarecaine; Methyl *N*-methyltetrahydronicotinate [63-75-2] C₈H₁₃NO₂ (155.20). Oleaginous liquid, bp 209°C, soluble in chloroform, complete miscibility with water, ethanol and ether.^[5507] Pharm: Anthelmintic; cholinomimetic (CNS); bronchial smooth muscle stimulant; vasodilator; cholinergic (M-choline receptor agonist and N-choline receptor agonist); skeletal muscle and carotid stimulant; ganglionic stimulant; causes miosis; promotes intestinal motion; promotes platelet production in toxin dose; slows heart rate. Source: BING LANG *Areca catechu* (dried ripe seed: content scope = 0.30%~0.63%, middle value = 0.47%^[5508]). Ref: 2, 4, 658, 5501, 5507, 5508.

**1659 Arenarine A**

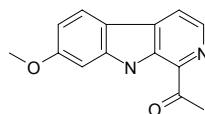
C₁₄H₁₂N₂O₂ (240.26). Source: XUE LING ZHI *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*]. Ref: 660.

**1660 Arenarine B**

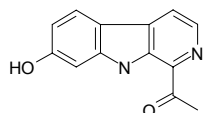
C₁₄H₁₄N₂O₂ (242.28). Source: XUE LING ZHI *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*]. Ref: 660.

**1661 Arenarine C**

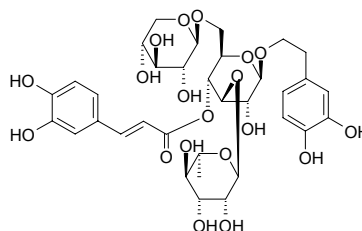
C₁₄H₁₂N₂O₂ (240.26). Source: XUE LING ZHI *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*]. Ref: 660.

**1662 Arenarine D**

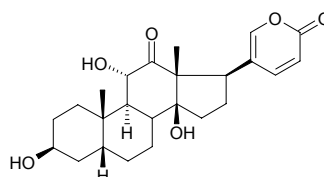
C₁₃H₁₀N₂O₂ (226.24). Source: XUE LING ZHI *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*]. Ref: 660.

**1663 Arenarioside**

C₃₄H₄₄O₁₉ (756.72). Pharm: Antioxidant (*in vitro* inhibits LDL peroxidation, Cu²⁺-induced and AAPH-induced); inhibits minimally oxidized LDL-induced cellular toxicity (cultured bovine aortic endothelial cells, BAEC). Source: OU XIA ZHI CAO *Marrubium vulgare* (aerial parts). Ref: 5370.

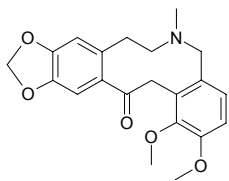
**1664 Arenobufagin**

[464-74-4] C₂₄H₃₂O₆ (416.52). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

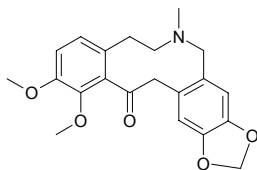


1665 Argemexicaine A

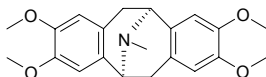
$C_{21}H_{23}NO_5$ (369.42). White powder, mp 158~160°C. **Pharm:** Anti-HIV inactive (H9 lymphocytes, control AZT, IC_{50} = 500 μ g/mL, EC_{50} = 0.0317 μ g/mL, TI = 15800). **Source:** JI YING SU *Argemone mexicana*. **Ref:** 5364.

**1666 Argemexicaine B**

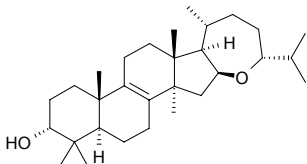
$C_{21}H_{23}NO_5$ (369.42). White powder, mp 131~133°C. **Pharm:** Anti-HIV inactive (H9 lymphocytes, control AZT, IC_{50} = 500 μ g/mL, EC_{50} = 0.0317 μ g/mL, TI = 15,800). **Source:** JI YING SU *Argemone mexicana*. **Ref:** 5364.

**1667 (-)-Argemonine**

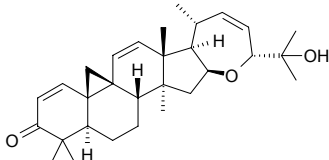
[6901-16-2] $C_{21}H_{25}NO_4$ (355.44). **Pharm:** Analgesic; antiarrhythmic. **Source:** HOU KE GUI *Cryptocarya chinensis* (wood)^[3092], JI YING SU *Argemone mexicana*, XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 658, 3092.

**1668 Argentatin E**

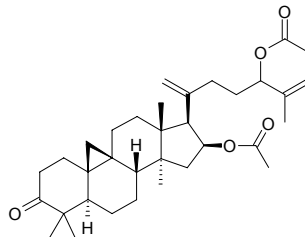
16,24-Epoxy-3 α -hydroxylanost-8-ene $C_{30}H_{52}O_2$ (442.73). Needles, mp 168~170°C, $[\alpha]_D^{25}$ = -45° (c = 2.0, CH_2Cl_2). **Source:** ZA JIAO YIN JIAO JU *Parthenium argentatum* x *P. Tomentosa*. **Ref:** 1967.

**1669 Argentatin F**

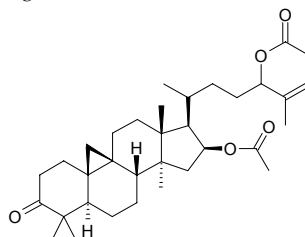
16,24-Epoxy-25-hydroxycycloart-1,11,22-trien-3-one $C_{30}H_{42}O_3$ (450.67). Solid gum, $[\alpha]_D^{25}$ = +3.5° (c = 2.0, CH_2Cl_2). **Source:** ZA JIAO YIN JIAO JU *Parthenium argentatum* x *P. Tomentosa*. **Ref:** 1967.

**1670 Argentatin G**

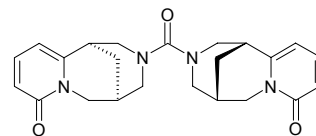
16,24-Dihydroxycycloart-20,25-dien-3-one diacetate $C_{34}H_{50}O_5$ (538.77). A solid gum, $[\alpha]_D^{25}$ = +25.6° (c = 2.5, CH_2Cl_2). **Source:** ZA JIAO YIN JIAO JU *Parthenium argentatum* x *P. Tomentosa*. **Ref:** 1967.

**1671 Argentatin H**

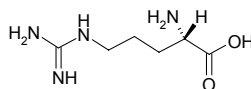
16,24-Dihydroxycycloart-25-en-3-one $C_{34}H_{52}O_5$ (540.79). A solid gum, $[\alpha]_D^{25}$ = +18.2° (c = 2.5, CH_2Cl_2). **Source:** ZA JIAO YIN JIAO JU *Parthenium argentatum* x *P. Tomentosa*. **Ref:** 1967.

**1672 Argentine**

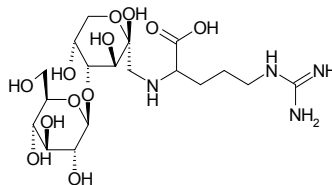
[37551-61-4] $C_{23}H_{26}N_4O_3$ (406.49). **Source:** MU MA DOU *Thermopsis lanceolata*. **Ref:** 6.

**1673 L-Arginine**

[74-79-3] $C_6H_{14}N_4O_2$ (174.20). **Pharm:** Reduces ammonia in blood; pituitary stimulant (stimulates hypophysis to release somatotropin); used in treatment of liver coma. **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.48%~1.25%, mean content = 1.01%)^[5521], HU LU BA *Trigonella foenum-graecum*, MU XU *Medicago sativa*, XIAO BAI BU *Asparagus officinalis*, YI YE JIA FAN LV *Pseudostellaria heterophylla* (tuberosid: mean content of 5 origins = 0.6421%)^[5508]. **Ref:** 658, 5508, 5521.

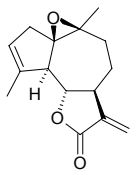
**1674 Argininyl-fructosyl-glucose**

$C_{18}H_{34}N_4O_{12}$ (498.49). White powder, mp 158~160°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 348.

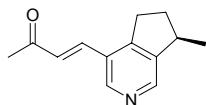


1675 Arglabin

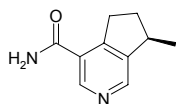
$C_{15}H_{18}O_3$ (246.31). Source: WU MAO HAO *Artemisia glabella*, YI KUA *Artemisia myriantha* (aerial parts). Ref: 1521, 4618.

**1676 Argutine A**

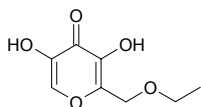
$C_{13}H_{15}NO$ (201.27). White powder, mp 167–169°C, $[\alpha]_D^{20} = +17.10^\circ$ ($c = 0.60$, $CHCl_3$). Source: MA TONG HUA *Incarvillea arguta*. Ref: 2185.

**1677 Argutine B**

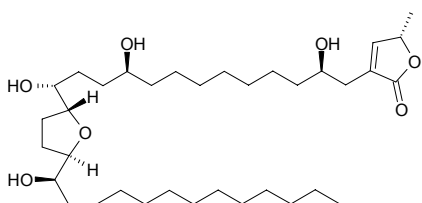
$C_{10}H_{12}N_2O$ (176.22). Colorless oil liquid, $[\alpha]_D^{20} = +16.37^\circ$ ($c = 0.58$, $CHCl_3$). Source: MA TONG HUA *Incarvillea arguta*. Ref: 2185.

**1678 Argutone**

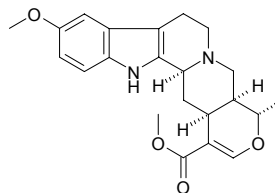
2-Ethoxymethylene-3,5-dihydroxy- γ -pyrone $C_8H_{10}O_5$ (186.17). Colorless acicular crystals, mp 94°C (sub), easily soluble in chloroform, methanol, soluble in benzene, ether, acetone, acetic ester and ethanol, insoluble in water. Source: MA TONG HUA *Incarvillea arguta*. Ref: 85.

**1679 Arianacin**

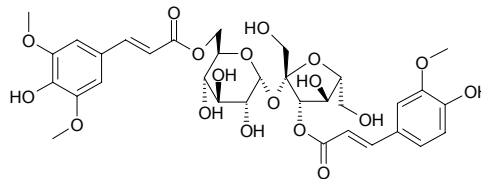
[172430-57-8] $C_{35}H_{64}O_7$ (596.90). White amorphous powder, mp 64°C, $[\alpha]_D^{25} = +12.5^\circ$ ($c = 0.14$). Pharm: Cytotoxic (BST, $LC_{50} = 7.1 \mu g/mL$, PD, InRt = 26%, A549 *in vitro*, $IC_{50} = 0.0047 \mu g/mL$, MCF7 *in vitro*, $IC_{50} = 0.4 \mu g/mL$, HT29 *in vitro*, $IC_{50} = 4.4 \mu g/mL$). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 1062.

**1680 Aricine**

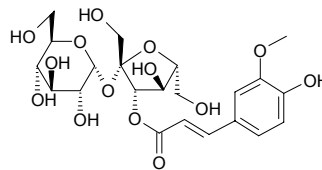
[482-91-7] $C_{22}H_{26}N_2O_4$ (382.46). mp 188–189°C. Source: CUI TU LUO FU *MU Rauwolfia vomitoria*, JIN JI LE *Cinchona ledgeriana*, LUO FU MU JING YE *Rauwolfia verticillata*. Ref: 6, 660.

**1681 Arillanin A**

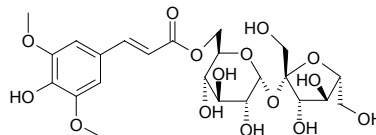
$C_{33}H_{40}O_{18}$ (742.68). $[\alpha]_D = -88.4^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1682 Arillanin B**

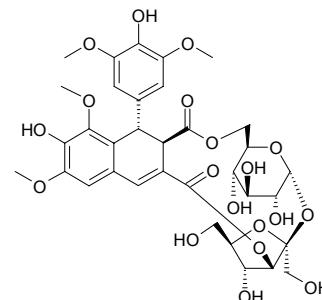
Sibiricose A₅ $C_{22}H_{30}O_{14}$ (518.48). Amorphous powder; $[\alpha]_D^{23} = -6^\circ$ ($c = 2.27$, MeOH); $[\alpha]_D = +12.7^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*, XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691, 2184.

**1683 Arillanin C**

Sibiricose A₁ $C_{23}H_{32}O_{15}$ (548.50). Amorphous powder; $[\alpha]_D^{23} = +18^\circ$ ($c = 4.36$, MeOH); $[\alpha]_D = +37.2^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*, XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691, 2184.

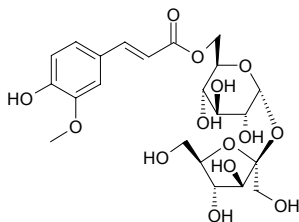
**1684 Arillatose A**

$C_{34}H_{40}O_{19}$ (752.69). Amorphous Powder, $[\alpha]_D^{27} = +25.1^\circ$ ($c = 0.12$, MeOH). Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 1521.

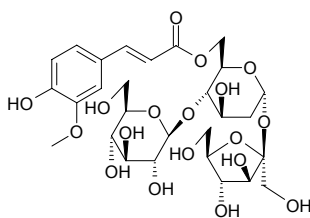


1685 Arillatose B

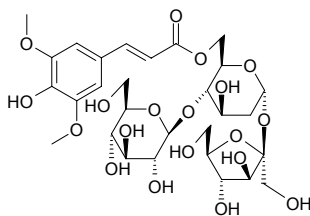
$C_{22}H_{30}O_{14}$ (518.48). $[\alpha]_D = +15.8^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1686 Arillatose C**

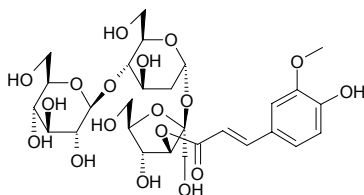
$C_{28}H_{40}O_{18}$ (664.62). $[\alpha]_D = +15.8^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1687 Arillatose D**

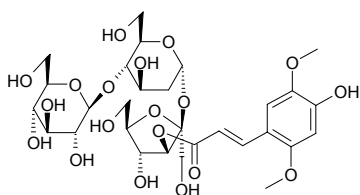
$C_{29}H_{42}O_{19}$ (694.65). $[\alpha]_D = +2.0^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1688 Arillatose E**

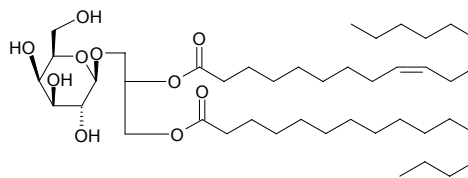
$C_{28}H_{40}O_{18}$ (664.62). $[\alpha]_D = -20.6^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1689 Arillatose F**

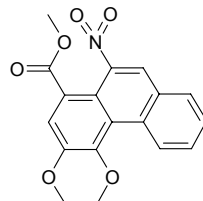
$C_{29}H_{42}O_{19}$ (694.65). $[\alpha]_D = -4.5^\circ$. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**1690 Arisaema glyceride 3**

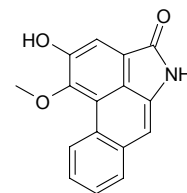
$C_{43}H_{80}O_{10}$ (757.11). Source: LIAO DONG CONG MU YE *Aralia elata*. Ref: 4471.

**1691 Ariskanin A**

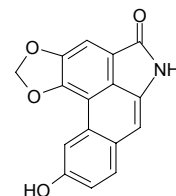
Aristolochic acid BII methyl ester [128397-31-9] $C_{18}H_{15}NO_6$ (341.32). Yellow acicular crystals ($CHCl_3$), mp 123~124°C, 283°C. Pharm: Cytotoxic (P_{388} *in vitro*, $ED_{50} = 1.5\mu g/mL$; HT29, $ED_{50} = 8.0\mu g/mL$; HL-60, $ED_{50} = 9.3\mu g/mL$); platelet aggregation inhibitor (*in vitro*, caused by arachidonic acid, collagen and PAF, 100 $\mu g/mL$, InRt = 100%, 76.2% and 61.2%, respectively). Source: GUAN MU TONG *Aristolochia manshuriensis*, MU TONG *Akebia quinata*, MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 334, 1128.

**1692 Aristolactam AII**

$C_{16}H_{11}NO_3$ (265.27). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00002%)^[4706], MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw)^[3206], SAN BAI CAO *Saururus chinensis* (aerial parts). Ref: 3026, 4706, 4968.

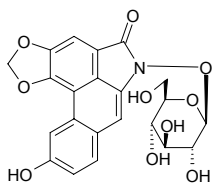
**1693 Aristolactam AIIIa**

3,4-Methylenedioxy-10-hydroxy aristolactam $C_{16}H_9NO_4$ (279.25). Source: KUAI JING MA DOU LING *Aristolochia tuberosa*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw). Ref: 1317, 1318, 3026.

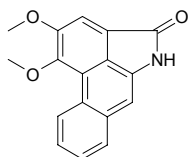


1694 Aristolactam AIIIa N-β-D-glucoside

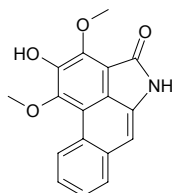
Aristolactam C N-glucoside C₂₂H₁₉NO₁₀ (457.40). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw). Ref: 3026.

**1695 Aristolactam BII**

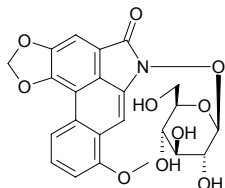
Cepharanone B C₁₇H₁₃NO₃ (279.30). Pharm: Neuroprotective (glutamate-injured primary cultures of rat cortical cells, nitric oxide production inhibitor)^[4968]. Source: SAN BAI CAO *Saururus chinensis* (aerial parts), TAI WAN HU JIAO *Piper taiwanense* (stem), YU XING CAO *Houttuynia cordata*. Ref: 2428, 4938, 4968.

**1696 Aristolactam FII**

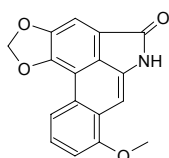
C₁₇H₁₃NO₄ (295.30). Source: TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00012%fw; stem: yield = 0.00005%fw). Ref: 4686.

**1697 Aristolactam-N-β-D-glucoside**

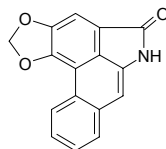
C₂₃H₂₁NO₁₀ (471.42). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.015%dw). Ref: 3026.

**1698 Aristolactam I**

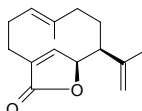
Aristolactam C₁₇H₁₁NO₄ (293.28). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00064%), GUANG FANG JI *Aristolochia fangchi*, MIAN MAO MA DOU LING *Aristolochia mollissima*, RU LAN *Stephania hernandifolia*. Ref: 660, 4706.

**1699 Aristolactam II**

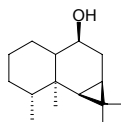
C₁₆H₉NO₃ (263.26). Pharm: Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells); cytotoxic inactive (*in vitro*, MCF7 and A549). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00083%). Ref: 4706.

**1700 Aristolactone**

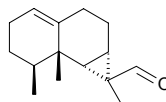
C₁₅H₂₀O₂ (232.33). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.015%dw)^[3026]. Ref: 660, 3026.

**1701 Aristolan-9β-ol**

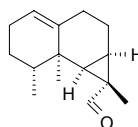
C₁₅H₂₆O (222.37). Source: GAN SONG *Nardostachys chinensis*. Ref: 660.

**1702 (-)-Aristol-1(10)-en-12-al**

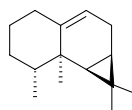
C₁₅H₂₂O (218.34). Colorless oil. Source: RI BEN BIAN TAI *Bazzania japonica*. Ref: 3399.

**1703 Aristol-1(10)-en-12-al**

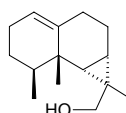
[94271-19-9] C₁₅H₂₂O (218.34). Crystals (C₂H₅OH), mp 65°C. Source: MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 1521.

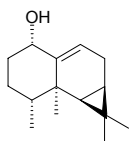
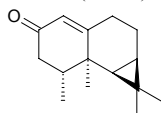
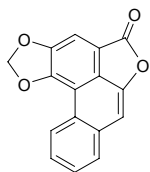
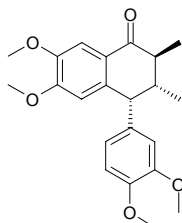
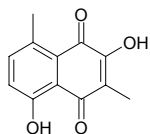
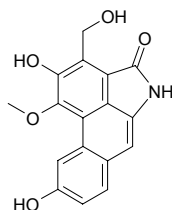
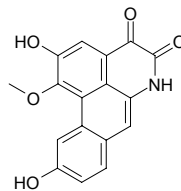
**1704 9-Aristolene**

Aristolene C₁₅H₂₄ (204.36). Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

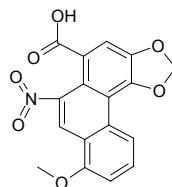
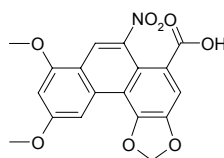
**1705 (-)-Aristol-1(10)-en-12-ol**

C₁₅H₂₄O (220.36). Colorless oil. Source: RI BEN BIAN TAI *Bazzania japonica*. Ref: 3399.



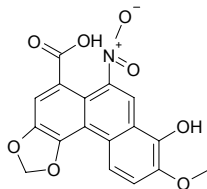
1706 9-Aristolene-1- α -ol[26128-14-3] C₁₅H₂₄O (220.36). Source: GAN SONG *Nardostachys chinensis*.Ref: 6.**1707 1(10)-Aristolene-2-one**C₁₅H₂₂O (218.34). Source: GAN SONG *Nardostachys chinensis*. Ref: 6.**1708 Aristolide B**C₁₆H₈O₄ (264.24). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00015%). Ref: 4706.**1709 (-)-Aristoligone**(7'R,8S,8'R)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cyclo lignan-7-one C₂₂H₂₆O₅ (370.45). Amorphous yellow solid, [α]_D²⁵ = -206.4° (c = 0.72, CHCl₃). Source: *Aristolochia* sp. *Holostylis reniformis* (root). Ref: 3784.**1710 Aristolindiquinone**[86533-36-0] C₁₂H₁₀O₄ (218.21). Pharm: Contraceptive. Source: YIN DU MA DOU LING *Aristolochia indica*. Ref: 658.**1711 Aristoliukine A**C₁₇H₁₃NO₅ (311.30). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw)^[3026]. Ref: 3026.**1712 Aristoliukine B**C₁₇H₁₁NO₅ (309.28). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw). Ref: 3026.**1713 Aristolochic acid**

Aristolochic acid A; Aristolochic acid I [313-67-7] C₁₇H₁₁NO₇ (341.28). Lustrous brown leaflike crystals (dimethylformamide–water), mp 281–286°C (dec), 287–292°C (dec); bright yellow, mp 274°C. Pharm: Causes acute glomerulus necrosis; carcinogen; mutagen; immunoenhancer; anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells)^[4706]; cytotoxic inactive (*in vitro*, MCF7 and A549)^[4706]; LD₅₀ (mus, iv) = 60mg/kg. Source: BEI MA DOU LING *Aristolochia contorta* (dried ripe fruit: mean content = 0.171%^[5508]), BEI MA DOU LING GEN *Aristolochia contorta*, GUAN MU TONG *Aristolochia manshuriensis* (lianoid stem: mean content of 7 origins = 0.052%^[5508]; yield = 0.039%^[4706]), GUANG FANG JI *Aristolochia fangchi* (dried root: content scope of 5 origins = 0.93%–3.66%, mean content = 1.50%^[5508]), HAN CHENG XI XIN *Asarum sieboldii* var. *seoulensis* (dried whole herb: content = 0.00063%^[5508]), HAN FANG JI *Aristolochia heterophylla* (dried ripe fruit: mean content = 0.1637%^[5508]), HUAI TONG *Aristolochia moupinensis*, JIA NA DA XI XIN *Asarum canadense*, KUAI JING MA DOU LING *Aristolochia tuberosa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum* (dried whole herb: content = 0.00098%^[5508]), MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*] (dried ripe fruit: mean content = 0.139%^[5508]; in 1963 the compound was isolated from the plant by H. Mitsuhashi et al.^[5505]), MIAN MAO MA DOU LING *Aristolochia mollissima* (dried ripe fruit: mean content = 0.0465%^[5508]; dried root and stem: yield = 0.071%dw^[3026]), QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*] (root: content scope = 0.049%–0.668%^[5501]), XI XIN *Asarum sieboldii* (dried whole herb: content = 0.00114%^[5508]), YIN DU MA DOU LING *Aristolochia indica*, ZHU SHA LIAN *Aristolochia kaempferi*. Ref: 6, 334, 517, 660, 658, 661, 3026, 4706, 5501, 5505, 5508.

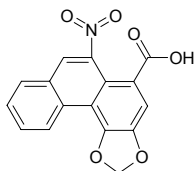
**1714 Aristolochic acid D methyl ether**C₁₈H₁₃NO₈ (371.31). Source: QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 660.

1715 Aristolochic acid E

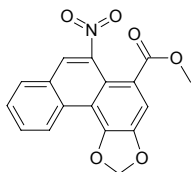
$C_{17}H_{11}NO_8$ (357.28). Red trapezoid crystals, mp 263°C. Source: BEI MA DOU LING *Aristolochia contorta*. Ref: 64.

**1716 Aristolochic acid II**

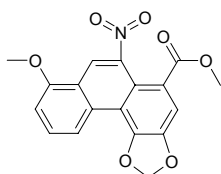
Aristolochic acid B $C_{16}H_9NO_6$ (311.25). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00004%)^[4706], MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00099%dw)^[3026]. Ref: 3026, 4706.

**1717 Aristolochic acid II methyl ester**

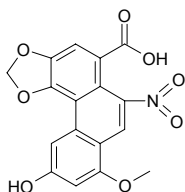
$C_{17}H_{11}NO_6$ (325.28). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00002%). Ref: 4706.

**1718 Aristolochic acid I methyl ester**

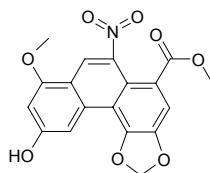
$C_{18}H_{13}NO_7$ (355.31). Pharm: Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells); cytotoxic inactive (*in vitro*, MCF7 and A549). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.0034%). Ref: 4706.

**1719 Aristolochic acid IVa**

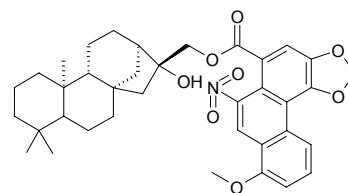
$C_{17}H_{11}NO_8$ (357.28). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0037%dw). Ref: 3026.

**1720 Aristolochic acid IVa methyl ester**

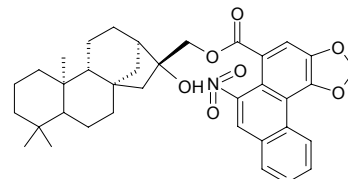
$C_{18}H_{13}NO_8$ (371.31). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00080%). Ref: 4706.

**1721 Aristoloin I**

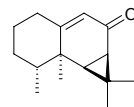
16 α -Hydroxy-*ent*-17-kauranyl aristolochate I $C_{37}H_{43}NO_8$ (629.76). Amorphous yellow solid, $[\alpha]_D^{25} = -42.1^\circ$ ($c = 0.20$, $CHCl_3$). Source: DUAN ROU MAO MA DOU LING *Aristolochia pubescens*. Ref: 3428.

**1722 Aristoloin II**

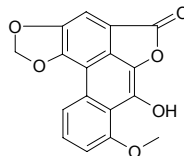
16 α -Hydroxy-*ent*-17-kauranyl aristolochate II $C_{36}H_{41}NO_7$ (599.73). Amorphous yellow solid, $[\alpha]_D^{25} = -53.4^\circ$ ($c = 0.16$, $CHCl_3$). Source: DUAN ROU MAO MA DOU LING *Aristolochia pubescens*. Ref: 3428.

**1723 Aristolone**

$C_{15}H_{22}O$ (218.34). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 660.

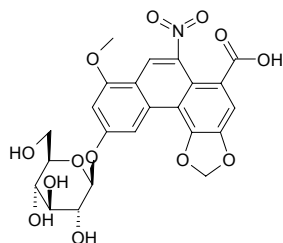
**1724 Aristolophenanlactone I**

9,10-Dihydroxy-8-methoxy-3,4-methylenedioxy-phenanthrene-1-carboxylic acid lactone $C_{17}H_{10}O_6$ (310.27). Bright yellow solid, mp 278°C. Source: GUAN HUA MA DOU LING *Aristolochia tubiflora*. Ref: 332.

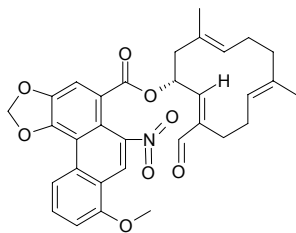


1725 Aristoloides

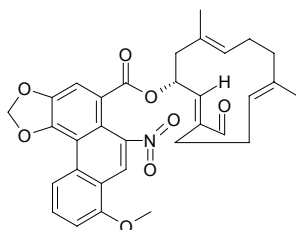
10-*O*-Glucopyranoside aristolochic acid D $C_{23}H_{21}NO_{13}$ (519.42). **Pharm:** Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells); cytotoxic inactive (*in vitro*, MCF7 and A549). **Source:** GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00094%). **Ref:** 660, 4706.

**1726 Aristoloterpenate**

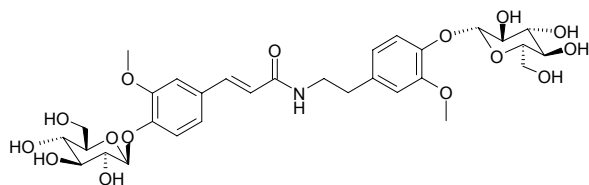
$C_{32}H_{31}NO_8$ (557.61). Thin yellow acicular crystals, mp 259°C ($CHCl_3$ -MeOH). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0019%dw)^[3026]. **Ref:** 358, 3026.

**1727 Aristoloterpenate III**

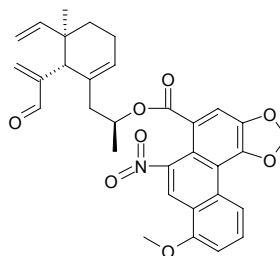
$C_{32}H_{31}NO_8$ (557.61). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00049%dw). **Ref:** 3026.

**1728 Aristomanoside**

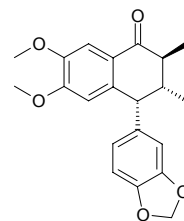
$C_{31}H_{41}NO_{15}$ (667.67). Yellow amorphous powder ($CHCl_3$ - CH_3OH), mp 195-197°C. **Pharm:** Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells); cytotoxic inactive (*in vitro*, MCF7 and A549). **Source:** GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00061%). **Ref:** 4706.

**1729 Aristophyllide A**

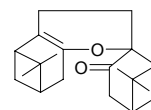
$C_{32}H_{31}NO_8$ (557.61). **Source:** HAN FANG JI *Aristolochia heterophylla*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw)^[3026]. **Ref:** 1521, 3026.

**1730 (-)-Aristotetralone**

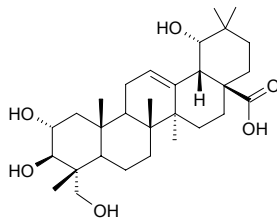
(7*R*,8*S*,8'*R*)-8,8'-Dimethyl-4,5-dimethoxy-3',4'-methylenedioxy-2,7'-cyclo lignan-7-one $C_{21}H_{22}O_5$ (354.41). Amorphous yellow solid, $[\alpha]_D^{25} = -135.3^\circ$ ($c = 0.60$, $CHCl_3$). **Source:** *Aristolochia* sp, *Holostylis reniformis* (root). **Ref:** 3784.

**1731 Aritasone**

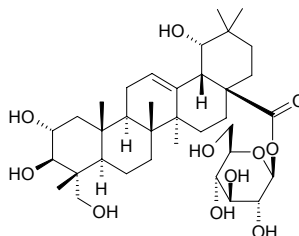
$C_{20}H_{28}O_2$ (300.44). mp 105-106°C. **Source:** TU JING JIE *Chenopodium ambrosioides*. **Ref:** 6.

**1732 Arjungenin**

$C_{30}H_{48}O_6$ (504.71). **Source:** HE ZI *Terminalia chebula*. **Ref:** 660.

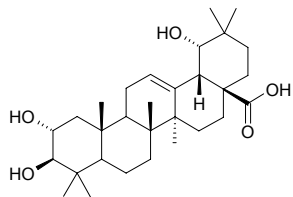
**1733 Arjunglucoside I**

Dotorioside I [62319-70-4] $C_{36}H_{58}O_{11}$ (666.86). **Source:** A JIANG LAN REN *Terminalia arjuna*, XIA KU CAO *Prunella vulgaris*. **Ref:** 1521, 2508.

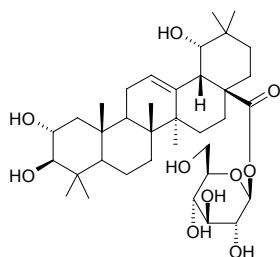


1734 Arjunic acid

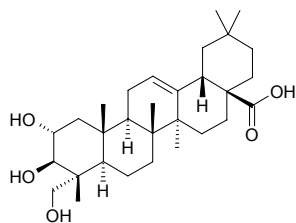
2 α ,3 β ,19 α -Trihydroxy-12-oleanen-28-oic acid C₃₀H₄₈O₅ (488.71). Source: A JIANG LAN REN *Terminalia arjuna*, TAI WAN PI PA *Eriobotrya deflexa* (leaf). Ref: 1521, 3064.

**1735 Arjunic acid-28-O-glucoside**

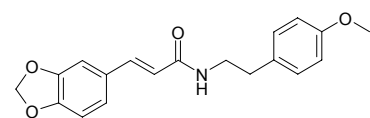
C₃₆H₅₈O₁₀ (650.86). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**1736 Arjunolic acid**

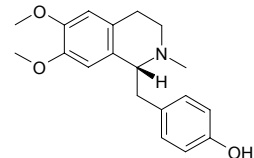
[465-00-9] C₃₀H₄₈O₅ (488.71). mp 337~340°C. Pharm: Antifungal (*Cryptococcus neoformans*, IC₅₀ = 20 μ g/mL, control Amphotericin B, IC₅₀ = 0.45 μ g/mL)^[5411]. Source: FAN SHI LIU PI *Psidium guajava*, SHAN GAN CAO *Mussaenda pubescens*, *Leandra chaetodon* (whole herb). Ref: 6, 5411.

**1737 Armatamide**

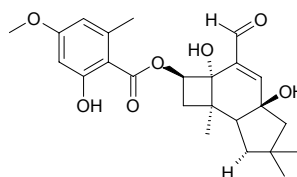
C₁₉H₁₉NO₄ (325.37). Pharm: Anti-PAF. Source: MAO ZHU YE HUA JIAO *Zanthoxylum armatum*, *Zanthoxylum* sp. Ref: 1521, 2176.

**1738 Arnepavine**

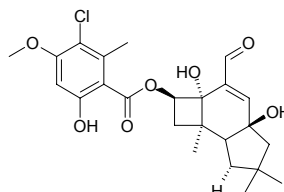
[524-20-9] C₁₉H₂₃NO₃ (313.40). mp 148~149°C. Pharm: Causes arrhythmia; eclampptogenic; irritant. Source: GAO JIA SUO YING SU *Papaver caucasicum*, HE YE *Nelumbo nucifera*, LIAN ZI *Nelumbo nucifera*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], OU ZHOU WEI MAO *Euonymus europaeus*, BO SI YING SU *Papaver persicum*. Ref: 6, 658.

**1739 Armillarilin**

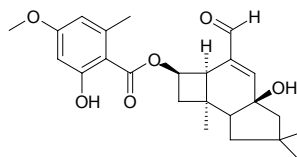
C₂₄H₃₀O₇ (430.50). White massive crystals, mp 179~180°C, [α]_D¹⁴ = +162° (CHCl₃). Source: MI HUAN JUN *Armillaria mellea*. Ref: 147.

**1740 Armillarinin**

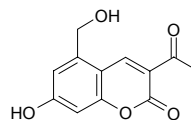
C₂₄H₂₉ClO₇ (464.95). White massive crystals, mp 152~155°C, [α]_D¹⁷ = +153.6° (CHCl₃). Source: MI HUAN JUN *Armillaria mellea*. Ref: 147.

**1741 Armillaripin**

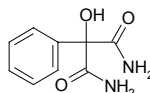
C₂₄H₃₀O₆ (414.50). Colorless acicular crystals, mp 202~204°C. Source: MI HUAN JUN *Armillaria mellea*. Ref: 154.

**1742 Armillarisin A**

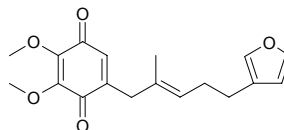
C₁₂H₁₀O₅ (234.21). mp 245~246°C. Pharm: Antispasmodic (Oddi's sphincter); choleric (bile secretion promotor); reduces duodenum tension. Source: LIANG JUN *Armillariella tabescens*. Ref: 6, 658.

**1743 Armillarisin B**

C₉H₁₀N₂O₃ (194.19). Source: LIANG JUN *Armillariella tabescens*. Ref: 660.

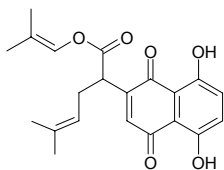
**1744 Arnebifuranone**

[94805-71-7] C₁₈H₂₀O₅ (316.36). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 660, 2193.

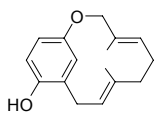


1745 Arnebin

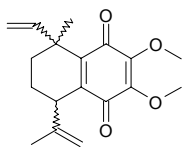
$C_{21}H_{22}O_6$ (370.41). Purplish red lamellar crystals, mp 113.5–114.0°C. **Pharm:** Antibacterial; antineoplastic (WM, $ED_{50} = 6\text{mg/kg}$; P_{388} , $ED_{50} = 3\text{mg/kg}$); cytotoxic (KB, $ED_{50} = 25\text{μg/mL}$). **Source:** GAO GUI JIA ZI CAO *Arnebia nobilis*, BAI GUO ZI CAO *Lithospermum officinale*. **Ref:** 658, 661.

**1746 Arnebinol**

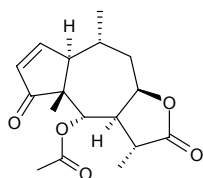
[87064-17-3] $C_{16}H_{20}O_2$ (244.34). **Pharm:** Prostaglandin biosynthesis inhibitor (20μg/mL , InRt = 75.0%). **Source:** XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 658, 2193.

**1747 Arnebinone**

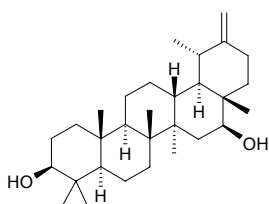
$C_{18}H_{22}O_4$ (302.34). **Pharm:** Prostaglandin biosynthesis inhibitor (20μg/mL , InRt = 24.2%). **Source:** XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 658, 2193.

**1748 Arnicolide A**

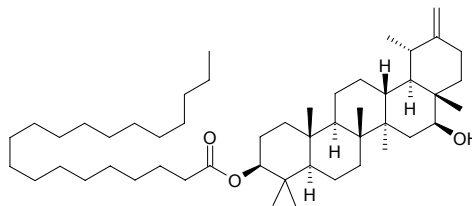
[36505-53-0] $C_{17}H_{22}O_5$ (306.36). **Pharm:** Cytotoxic (hmn, animal, many kinds of cancer cell cultures). **Source:** SHAN JIN CHE *Arnica montana*. **Ref:** 658.

**1749 Arnidiol**

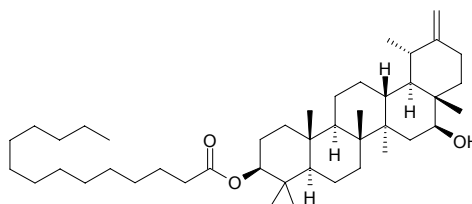
Arnidenediol [6750-30-7] $C_{30}H_{50}O_2$ (442.73). mp 257°C. **Source:** E BU SHI CAO *Centipeda minima*, JIN ZHAN JU *Calendula officinalis*, YAO YONG PU GONG YING *Taraxacum officinale*. **Ref:** 6, 660.

**1750 Arnidiol 3-O-eicosanoate**

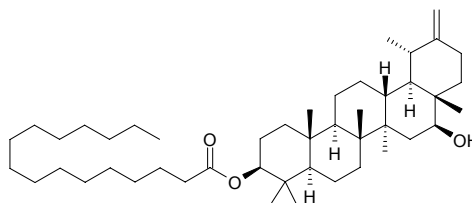
$C_{50}H_{88}O_3$ (737.26). mp 83–84°C, $[\alpha]_D = +44.3^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**1751 Arnidiol 3-O-myristate**

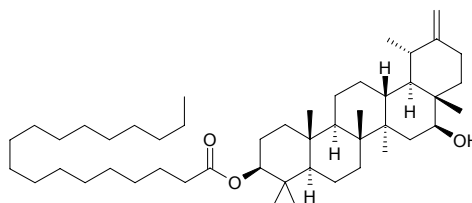
$C_{44}H_{76}O_3$ (653.09). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**1752 Arnidiol 3-O-palmitate**

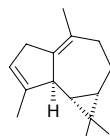
$C_{46}H_{80}O_3$ (681.15). Colorless powder. **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**1753 Arnidiol 3-O-stearate**

$C_{48}H_{84}O_3$ (709.20). mp 83–84°C, $[\alpha]_D = +45.2^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

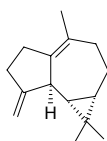
**1754 (-)-Aromadendra-1(10),3-diene**

$C_{15}H_{22}$ (202.34). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

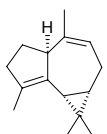


1755 (+)-(5*S,6*S**,7*S**)-Aromadendra-1(10),4(15)-diene**

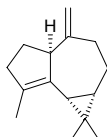
1,1,4-Trimethyl-7-methylene-1a,2,3,5,6,7,7a,7b-octahydro-1*H*-cyclopropa[*e*]azulene C₁₅H₂₂ (202.34). Colorless oil. Source: XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). Ref: 3840.

**1756 (1*S*,6*R*,7*S*)-Aromadendra-4,9-diene**

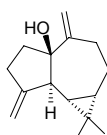
1,1,4,7-Tetramethyl-1a,2,4a,5,6,7b-hexahydro-1*H*-cyclopropa[*e*]azulene C₁₅H₂₂ (202.34). Colorless oil. Source: XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). Ref: 3840.

**1757 (+)-(1*S*,6*R*,7*S*)-Aromadendra-4,10(14)-diene**

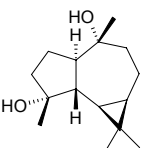
1,1,7-Trimethyl-4-methylene-1a,2,3,4,4a,5,6,7b-octahydro-1*H*-cyclopropa[*e*]azulene C₁₅H₂₂ (202.34). Colorless oil. Source: XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). Ref: 3840.

**1758 (+)-Aromadendra-4(15),10(14)-dien-1-ol**

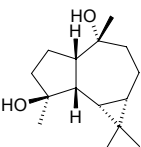
(+)-1,1-Dimethyl-4,7-dimethylene-decahydro-cyclopropa[*e*]azulen-4a-ol C₁₅H₂₂O (218.34). Colorless oil. Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**1759 4α,10α-Aromadendranediol**

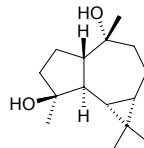
C₁₅H₂₆O₂ (238.37). White solid. Source: *Lobophytum* sp. Ref: 4565.

**1760 Aromadendrane-4β,10α-diol**

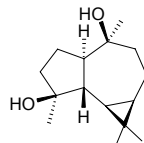
C₁₅H₂₆O₂ (238.37). White solid. Source: *Lobophytum* sp. Ref: 4565.

**1761 (+)-4β,10α-Aromadendranediol**

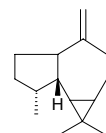
C₁₅H₂₆O₂ (238.37). White solid, [α]_D²⁰ = +13.05° (c = 0.05, CHCl₃). Source: *Lobophytum* sp. Ref: 4565.

**1762 Aromadendrane-4β,10β-diol**

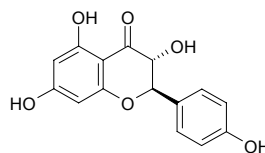
C₁₅H₂₆O₂ (238.37). Source: YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

**1763 Aromadendrene**

C₁₅H₂₄ (204.36). Source: HONG CHAI HU *Bupleurum scorzonrifolium*, HOU PO *Magnolia officinalis*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 2, 11, 660.

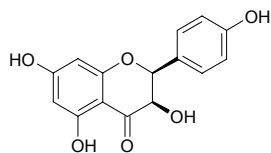
**1764 (2*R*,3*R*)-Aromadendrin**

Aromadendrol; Dihydrokaempferol [480-20-6] C₁₅H₁₂O₆ (288.26). mp 247–249°C. Pharm: Cytotoxic (Bel7402, ED₅₀ = 1.47 μg/mL, control Camptothecin, ED₅₀ = 0.06 μg/mL; BGC823, ED₅₀ = 2.62 μg/mL, Camptothecin, ED₅₀ = 0.09 μg/mL; HCT8, ED₅₀ = 1.34 μg/mL, Camptothecin, ED₅₀ = 0.14 μg/mL; A549, ED₅₀ > 10 μg/mL, Camptothecin, ED₅₀ = 0.09 μg/mL; MCF7, ED₅₀ > 10 μg/mL, Camptothecin, ED₅₀ = 0.01 μg/mL)^[5338]; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100 μmol/L)^[3057]; aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]; antifungal; antibacterial inactive (*Staphylococcus aureus*, MIC > 100 μg/mL; *Bacillus subtilis*, MIC > 100 μg/mL)^[4144]. Source: BA DAN XING REN *Prunus amygdalus*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], GOU JI *Cudrania cochinchinensis* (root: yield = 0.00087%dw)^[4713], GOU SHU *Broussonetia papyrifera*^[3090], RI BEN HUA BAI *Chamaecyparis pisifera* (leaf), SANG ZHI *Morus alba*, SHAN TAO JING BAI PI *Prunus davidiana*, SHE PU TAO *Ampelopsis brevipedunculata*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00033%dw)^[4722], TAO JING BAI PI *Prunus persica*, TAO ZHI *Prunus persica*, YI HE GUO *Ventilago leiocarpa* (stem)^[3057], YOU GAN YE *Phyllanthus emblica* (branch and leaf), ZHI JU ZI *Hovenia dulcis*. Ref: 6, 391, 552, 658, 660, 3057, 3090, 4144, 4205, 4713, 4722, 5338.

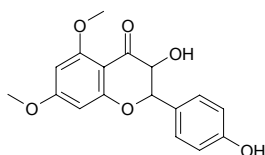


1765 (2R,3S)-Aromadendrin

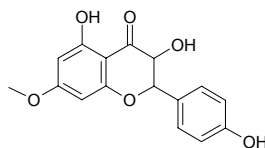
$C_{15}H_{12}O_6$ (288.26). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*. **Ref:** 5038.

**1766 Aromadendrin-5,7-dimethyl ether**

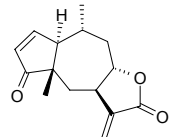
$C_{17}H_{16}O_6$ (316.31). mp 226–230°C. **Source:** NING MENG AN YE *Eucalyptus citriodora*. **Ref:** 6.

**1767 Aromadendrin-7-monomethyl ether**

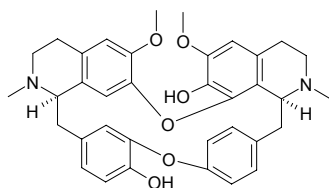
$C_{16}H_{14}O_6$ (302.29). mp 193°C. **Source:** NING MENG AN YE *Eucalyptus citriodora*. **Ref:** 6.

**1768 Aromaticin**

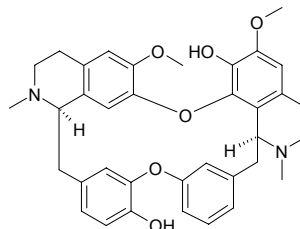
[5945-42-6] $C_{15}H_{18}O_3$ (246.31). Colorless trapezoid crystals (chloroform–benzene), mp 223–225°C, $[\alpha]_D^{25} = 21.2^\circ$ ($c = 0.25$, chloroform). **Pharm:** Anti-inflammatory (rat and mus, swollen foot model caused by carrageenan); cytotoxic (KB, $ED_{50} = 2.0\mu\text{g/mL}$). **Source:** KU WEI DUI XIN JU *Helenium amarum*, FANG XIANG DUI XIN JU *Helenium aromaticum*. **Ref:** 658, 661.

**1769 Aromoline**

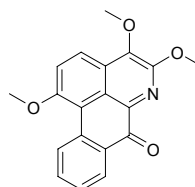
[519-53-9] $C_{36}H_{38}N_2O_6$ (594.71). White crystals (ether), mp 178–180°C, $[\alpha]_D^{25} = +318^\circ$ ($c = 0.06$, methanol); Colorless prismatic crystals (chloroform), mp 182–183°C, $[\alpha]_D = +320^\circ$ ($c = 0.05$). **Pharm:** Antibacterial (*Mycobacterium* sp., 1000 $\mu\text{g/mL}$); antihypertensive (dog); membrane stabilizer. **Source:** TOU MING TANG SONG CAO *Thalictrum lucidum*. **Ref:** 658, 661.

**1770 (+)-Aromoline**

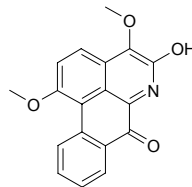
$C_{36}H_{38}N_2O_6$ (594.71). **Pharm:** Mitochondrial respiratory chain complex I inhibitor ($IC_{50} = (1.41 \pm 0.08)\mu\text{mol/L}$, Rolliniastatin-1, $IC_{50} = (0.6 \pm 0.04)\text{nmol/L}$, Rotenone, $IC_{50} = (5.10 \pm 0.90)\text{nmol/L}$). **Source:** GE LUN BI YA MU BAN SHU *Xylopi colombiana* (fruit). **Ref:** 4954.

**1771 Artabonatine C**

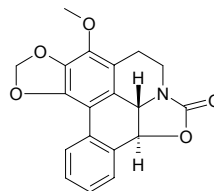
$C_{19}H_{15}NO_4$ (321.34). Green amorphous powder. **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). **Ref:** 3083.

**1772 Artabonatine D**

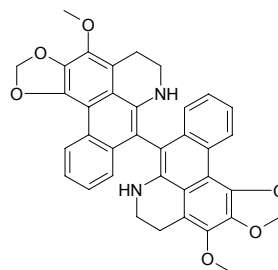
$C_{18}H_{13}NO_4$ (307.31). Red amorphous powder. **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). **Ref:** 3083.

**1773 Artabonatine E**

$C_{19}H_{15}NO_5$ (337.34). White amorphous powder, $[\alpha]_D^{24} = -116.7^\circ$ ($c = 0.8$, CHCl_3). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (root). **Ref:** 3083.

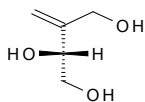
**1774 Artabonatine F**

$C_{36}H_{28}N_2O_6$ (584.63). White amorphous powder. **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (root). **Ref:** 3083.

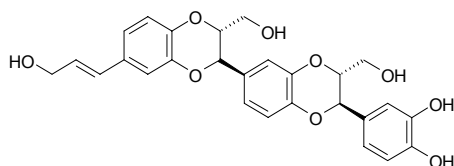


1775 (R)-Artabotriol

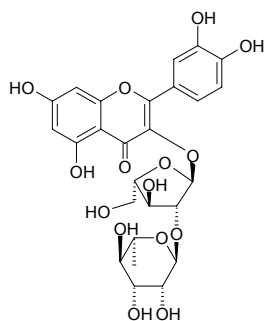
$C_5H_{10}O_3$ (118.13). Colorless oil liquid. Source: YING ZHAO *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*]. Ref: 872.

**1776 Artabotrycinol**

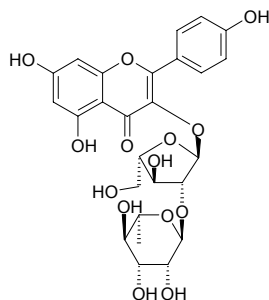
$C_{27}H_{26}O_9$ (494.50). White crystals, mp 194~196°C. Source: YING ZHAO *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*]. Ref: 872.

**1777 Artabotryside A**

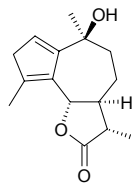
Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-rabinofuranoside $C_{26}H_{28}O_{15}$ (580.50). Yellowish powder, mp 175~177°C, $[\alpha]_D^{30} = -113^\circ$ ($c = 0.1$, MeOH). Source: YING ZHAO *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*]. Ref: 411.

**1778 Artabotryside B**

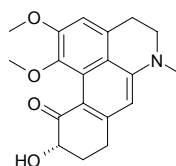
Kaempferol-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-rabinofuranoside $C_{26}H_{28}O_{14}$ (564.50). mp 262~265°C, $[\alpha]_D^{30} = -146^\circ$ ($c = 0.12$, MeOH). Source: YING ZHAO *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*]. Ref: 411.

**1779 Artabsin**

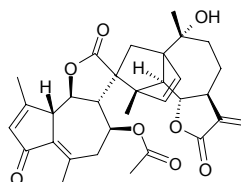
[24399-20-0] $C_{15}H_{20}O_3$ (248.32). mp 133~135°C. Pharm: Anthelmintic; bitter principle. Source: BAI HAO *Artemisia sieversiana*, ZHONG YA KU HAO *Artemisia absinthium*. Ref: 6, 658.

**1780 Artacinatine**

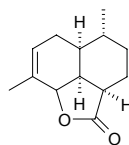
$C_{19}H_{21}NO_4$ (327.38). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). Ref: 3083.

**1781 Artanomaloide**

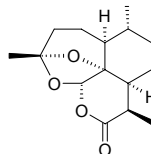
$C_{32}H_{36}O_8$ (548.64). Source: LIU JI NU *Artemisia anomala*. Ref: 660.

**1782 Arteamisinine I**

Qinghaosu I $C_{13}H_{18}O_2$ (206.29). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

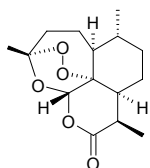
**1783 Arteamisinine III**

Qinghaosu III $C_{15}H_{22}O_4$ (266.34). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

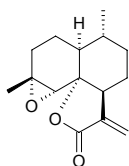


1784 (+)-Arteannuin

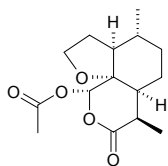
Qinghaosu; Artemisinin [63968-64-9] $C_{15}H_{22}O_5$ (282.34). Colorless acicular crystals, mp 156~157°C, $[\alpha]_D^{17} = +66.3^\circ$ (chloroform), $[\alpha]_D^{23} = +68^\circ$ (ethanol), easily soluble in benzene, acetic ester, chloroform, acetone, soluble in ethanol, ether, hot petroleum ether, almost insoluble in water.^[5507] **Pharm:** Antimalarial (*Plasmodium falciparum*, K1, multidrug resistant strain, $EC_{50} = 1\text{--}3\text{ng/mL}$)^[2532]; antimalarial (*Plasmodium falciparum*, $IC_{50} = (0.0011 \pm 0.0006)\mu\text{g/mL}$)^[5008]; antimalarial (*Plasmodium falciparum*, $IC_{50} = 0.0022\mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$)^[5008]; antimalarial (*Plasmodium falciparum*, $IC_{50} = 0.002\mu\text{g/mL}$)^[5251]; antimalarial (*Plasmodium falciparum* D6, $IC_{50} = 0.006\mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = 0.007\mu\text{g/mL}$)^[5465]; antiplasmodial ($IC_{50} = 0.001\text{--}0.002\mu\text{g/mL}$)^[5062]; schistosomacide. **Source:** HUANG HUA HAO *Artemisia annua* (flower: content scope = 0.0725%~0.232%^[5501], leaf: content scope = 0.523%~1.54%^[5501]); isolated from the plant by Chinese scientists in 1972^[5507]. **Ref:** 2, 658, 660, 2532, 5008, 5009, 5062, 5251, 5465, 5501, 5507.

**1785 Arteannuin B**

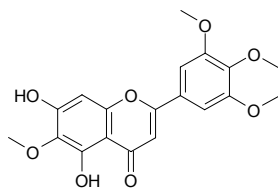
[50906-56-4] $C_{15}H_{20}O_3$ (248.32). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**1786 Arteannuin G**

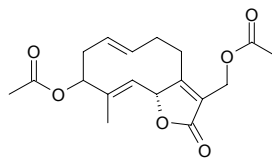
Artemisinin G $C_{15}H_{22}O_5$ (282.34). **Source:** HUANG HUA HAO *Artemisia annua*, HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 660, 3435.

**1787 Arteanoflavone**

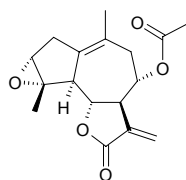
$C_{19}H_{18}O_8$ (374.35). **Source:** LIU JI NU *Artemisia anomala*. **Ref:** 660.

**1788 Arteanomalactone**

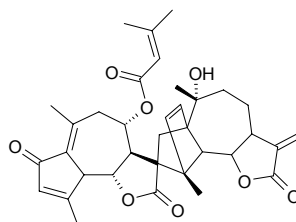
$C_{18}H_{22}O_6$ (334.37). **Source:** LIU JI NU *Artemisia anomala*. **Ref:** 660.

**1789 Arteglasin A**

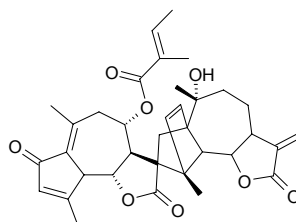
[33204-39-6] $C_{17}H_{20}O_5$ (304.35). **Pharm:** Antineoplastic; cytotoxic; dermatitic (causes contact dermatitis). **Source:** DAO SHI HAO *Artemisia douglasiana*, YE JU *Chrysanthemum indicum*. **Ref:** 658.

**1790 Arteminide B**

$C_{35}H_{40}O_8$ (588.70). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (0.49 \pm 0.03)\mu\text{mol/L}$, control PTN, $IC_{50} = (3.42 \pm 0.08)\mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (1.46 \pm 0.05)\mu\text{mol/L}$, PTN, $IC_{50} = (2.41 \pm 0.06)\mu\text{mol/L}$, AG, $IC_{50} = (34.18 \pm 0.98)\mu\text{mol/L}$; TNF- α production inhibitor, $IC_{50} = (3.19 \pm 0.01)\mu\text{mol/L}$, PTN, $IC_{50} = (2.68 \pm 0.11)\mu\text{mol/L}$; suppresses expression of NF- κ B target genes such as iNOS and COX-2. **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

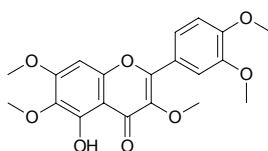
**1791 Arteminide D**

$C_{35}H_{40}O_8$ (588.70). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (0.54 \pm 0.02)\mu\text{mol/L}$, control PTN, $IC_{50} = (3.42 \pm 0.08)\mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (1.64 \pm 0.02)\mu\text{mol/L}$, PTN, $IC_{50} = (2.41 \pm 0.06)\mu\text{mol/L}$, AG, $IC_{50} = (34.18 \pm 0.98)\mu\text{mol/L}$; TNF- α production inhibitor, $IC_{50} = (3.47 \pm 0.53)\mu\text{mol/L}$, PTN, $IC_{50} = (2.68 \pm 0.11)\mu\text{mol/L}$). **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

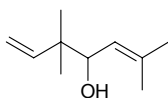


1792 Artemisetin

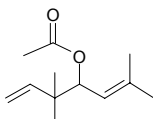
5-Hydroxy-3,6,7,3',4'-pentamethoxy-flavone [479-90-3] $C_{20}H_{20}O_8$ (388.38). **Pharm:** Cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 4.3\mu\text{g/mL}$, LLC cell line, $ED_{50} > 10\mu\text{g/mL}$)^[3510]; cytotoxic (*in vitro*, PC12, $GI_{50} = 2.27\mu\text{g/mL}$, control Cisplatin, $GI_{50} = 0.111\mu\text{g/mL}$; HCT116, $GI_{50} = 2.20\mu\text{g/mL}$, Cisplatin, $GI_{50} = 0.794\mu\text{g/mL}$)^[4623]. **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.0020%dw)^[4623], HUANG HUA HAO *Artemisia annua*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], MA BIAN CAO *Verbena officinalis*, YANG SHI CAO *Achillea millefolium*. **Ref:** 2, 626, 660, 3510, 4623.

**1793 Artemisia alcohol**

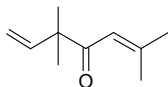
$C_{10}H_{18}O$ (154.25). bp $71^{\circ}\text{C}/6\text{mmHg}$. **Source:** MU HAO *Artemisia japonica*. **Ref:** 6.

**1794 L-β-Artemisia alcohol acetate**

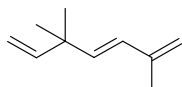
$C_{12}H_{20}O_2$ (196.29). bp $74\sim 76^{\circ}\text{C}/6\text{mmHg}$. **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 6.

**1795 Artemisia ketone**

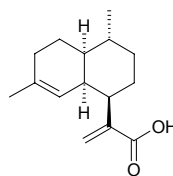
Isoartemisia ketone [546-49-6] $C_{10}H_{16}O$ (152.24). bp 182°C . **Source:** HUANG HUA HAO *Artemisia annua*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 2, 6, 660.

**1796 Artemisia triene**

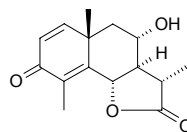
$C_{10}H_{16}$ (136.24). Colorless oil. **Source:** NIAN HAO *Artemisia cana* ssp. *viscidula*. **Ref:** 1980.

**1797 Artemisic acid**

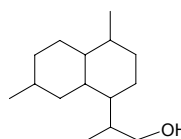
[80286-58-4] $C_{15}H_{22}O_2$ (234.34). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**1798 Artemisin**

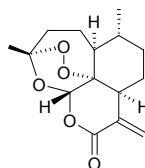
[481-05-0] $C_{15}H_{18}O_4$ (262.31). mp $(-)$ 203°C , (\pm) $190\sim 192^{\circ}\text{C}$. **Pharm:** Anthelmintic. **Source:** HUI HAO *Seriphidium cinum* [Syn. *Artemisia cina*], BIN HAO *Artemisia maritima*. **Ref:** 6, 658.

**1799 Artemisinol**

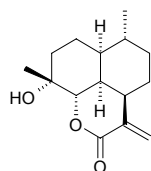
[82890-78-6] $C_{15}H_{28}O$ (224.39). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**1800 Artemisitene**

[101020-89-7] $C_{15}H_{20}O_5$ (280.32). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

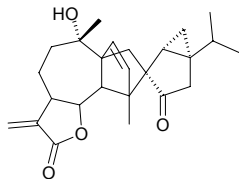
**1801 Artemislactone**

Qinghaosu V [92691-97-9] $C_{15}H_{22}O_3$ (250.34). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

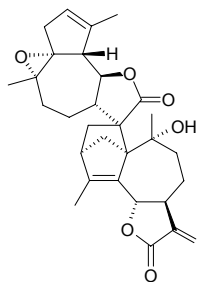


1802 Artemisolide

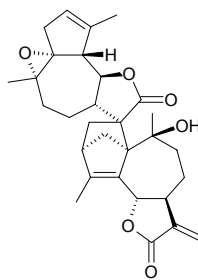
$C_{25}H_{32}O_4$ (396.53). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (0.70 \pm 0.02) \mu\text{mol/L}$, control PTN, $IC_{50} = (3.42 \pm 0.08) \mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (1.96 \pm 0.06) \mu\text{mol/L}$, PTN, $IC_{50} = (2.41 \pm 0.06) \mu\text{mol/L}$, AG, $IC_{50} = (34.18 \pm 0.98) \mu\text{mol/L}$; TNF- α production inhibitor, $IC_{50} = (7.42 \pm 0.11) \mu\text{mol/L}$, PTN, $IC_{50} = (2.68 \pm 0.11) \mu\text{mol/L}$). **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

**1803 Artemyriantholide A**

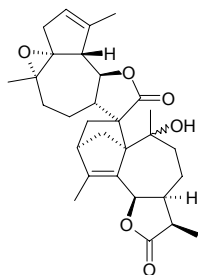
$C_{30}H_{36}O_6$ (492.62). Gum, $[\alpha]_D = +37.2^\circ$ ($c = 1.0$, CHCl_3). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**1804 Artemyriantholide B**

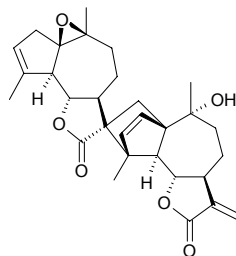
$C_{30}H_{36}O_6$ (492.62). Gum, $[\alpha]_D = +51.0^\circ$ ($c = 0.4$, CHCl_3). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**1805 Artemyriantholide C**

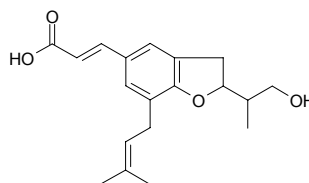
$C_{30}H_{38}O_6$ (494.63). Gum, $[\alpha]_D = +34.5^\circ$ ($c = 0.3$, CHCl_3). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**1806 Artemyriantholide D**

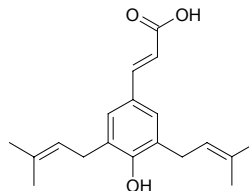
$C_{30}H_{36}O_6$ (492.62). Gum, $[\alpha]_D = +17.2^\circ$ ($c = 0.6$, CHCl_3). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**1807 Artepillin A**

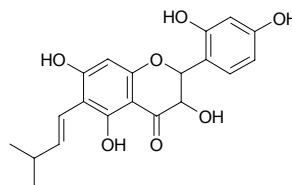
$C_{19}H_{24}O_4$ (316.40). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 660.

**1808 Artepillin C**

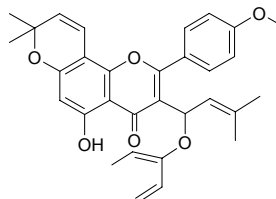
Deoxycapillartemisin $C_{19}H_{24}O_3$ (300.40). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 660.

**1809 Artocarpesin**

$C_{20}H_{20}O_7$ (372.38). **Source:** ZHE SHU *Cudrania tricuspidata* (stem and leaf). **Ref:** 660.

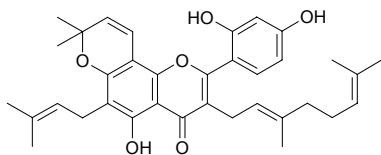
**1810 Artocommunol CA**

$C_{31}H_{32}O_6$ (500.60). Yellowish needles (CHCl_3), mp $190\text{--}192^\circ\text{C}$, $[\alpha]_D^{25} = +61.8^\circ$ ($c = 0.1$, CHCl_3). **Source:** MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.0017%). **Ref:** 4682.

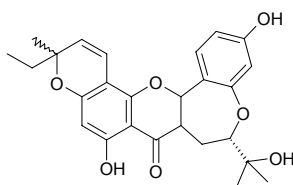


1811 Artocommunol CB

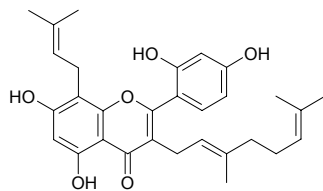
$C_{35}H_{40}O_6$ (556.71). Yellowish needles ($CHCl_3$), mp 217–219°C. Source: MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.0022%). Ref: 4682.

**1812 Artocommunol CC**

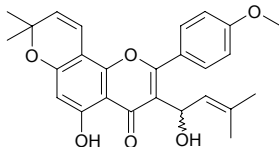
$C_{26}H_{28}O_7$ (452.51). Yellow amorphous powder, $[\alpha]_D^{25} = +43.1^\circ$ ($c = 0.1$, MeOH). Source: MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.067%). Ref: 4682.

**1813 Artocommunol CD**

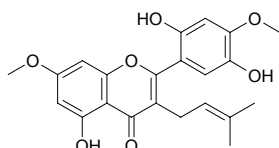
$C_{30}H_{34}O_6$ (490.60). Pale yellow needles (acetone), mp 183–185°C. Source: MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.0042%). Ref: 4682.

**1814 Artocommunol CE**

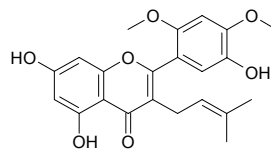
$C_{26}H_{26}O_6$ (434.49). Yellow amorphous powder, $[\alpha]_D^{25} = +45.5^\circ$ ($c = 0.1$, MeOH). Source: MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.0033%). Ref: 4682.

**1815 Artoindonesianin Q**

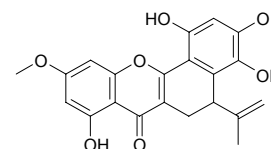
$C_{22}H_{22}O_7$ (398.42). Yellow powder. Source: YIN NI MIAN BAO GUO *Artocarpus champeden*. Ref: 1938.

**1816 Artoindonesianin R**

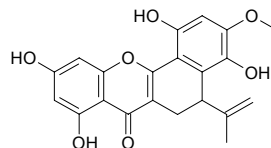
$C_{22}H_{22}O_7$ (398.42). Yellow powder. Source: YIN NI MIAN BAO GUO *Artocarpus champeden*. Ref: 1938.

**1817 Artoindonesianin S**

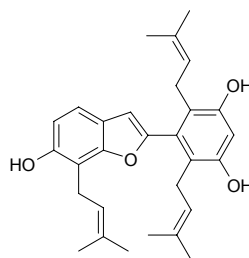
$C_{22}H_{20}O_7$ (396.40). Yellow powder. Source: YIN NI MIAN BAO GUO *Artocarpus champeden*. Ref: 1938.

**1818 Artoindonesianin T**

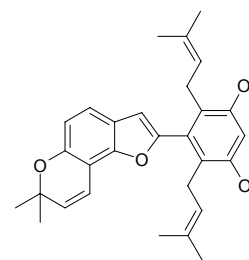
$C_{21}H_{18}O_7$ (382.37). Yellow powder. Source: YIN NI MIAN BAO GUO *Artocarpus champeden*. Ref: 1938.

**1819 Artoindonesianin X**

$C_{29}H_{34}O_4$ (446.59). Yellow powder. Pharm: Cytotoxic (brine shrimp *Artemia salina* assay, $LC_{50} = 78.7 \mu g/mL$). Source: *Artocarpus fretessi* (bark). Ref: 3460.

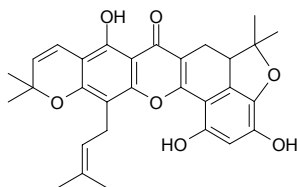
**1820 Artoindonesianin Y**

$C_{29}H_{32}O_4$ (444.58). Yellow powder. Pharm: Cytotoxic (brine shrimp *Artemia salina* assay, $LC_{50} = 294.1 \mu g/mL$). Source: *Artocarpus fretessi* (bark). Ref: 3460.

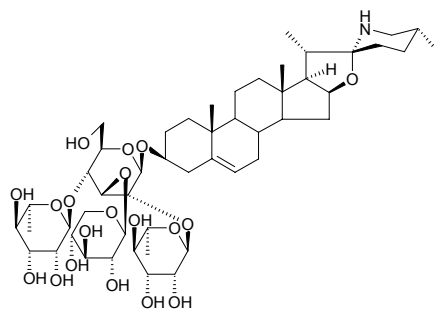


1821 Artonin A

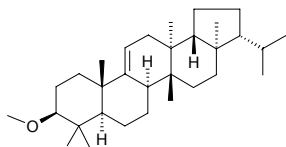
$C_{30}H_{30}O_7$ (502.57). Yellow prisms (MeOH), mp 239–240°C. **Pharm:** Cytotoxic (brine shrimp *Artemia salina* assay, $LC_{50} = 100.6 \mu\text{g/mL}$)^[3460]. **Source:** BO LUO MI *Artocarpus heterophyllus*, *Artocarpus fretessi* (bark). **Ref:** 1521, 3460.

**1822 Arudonine**

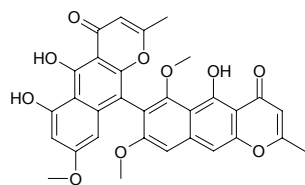
Solasodine *O*- α -*L*-rhamnopyranosyl-(1→2)-{[β -*D*-xylopyranosyl-(1→3)], [α -*L*-rhamnopyranosyl-(1→4)]}- β -*D*-glucopyranoside $C_{50}H_{81}NO_{19}$ (1000.20). **Pharm:** Plant growth inhibitor (inhibits growth of lettuce seedlings). **Source:** A LUN DUO QIE *Solanum arundo* (root cortex). **Ref:** 3812.

**1823 Arundoin**

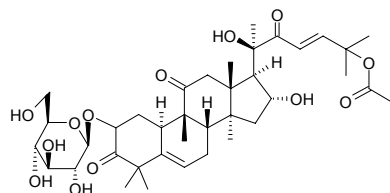
[4555-56-0] $C_{31}H_{52}O$ (440.76). mp 235–237°C; 271–273°C. **Source:** BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*, DAN ZHU YE *Lophatherum gracile*, DAN ZHU YE GEN *Lophatherum gracile*, LONG XU CAO *Poa sphondylodes*. **Ref:** 6.

**1824 Arurasperone D**

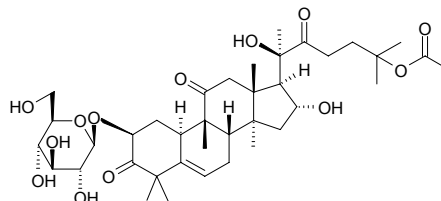
$C_{31}H_{24}O_{10}$ (556.53). **Pharm:** CNS depressant (animal model). **Source:** MANG GUO *Mangifera indica*. **Ref:** 658.

**1825 Arvenin I**

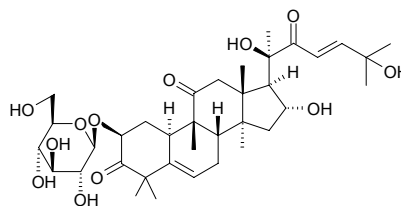
[65247-27-0] $C_{38}H_{56}O_{13}$ (720.86). **Source:** LIU LI FAN LV *Anagallis arvensis*, NANG GAI SI GUA *Luffa operculata*. **Ref:** 1521, 2593.

**1826 Arvenin II**

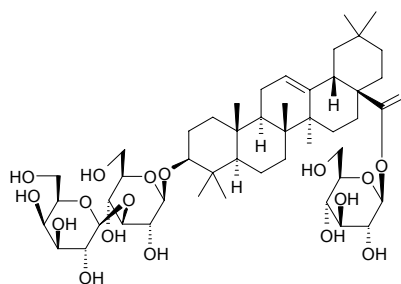
$C_{38}H_{58}O_{13}$ (722.88). **Source:** HU HUANG LIAN *Picrorhiza kurroa*, LIU LI FAN LV *Anagallis arvensis*. **Ref:** 660.

**1827 Arvenin III**

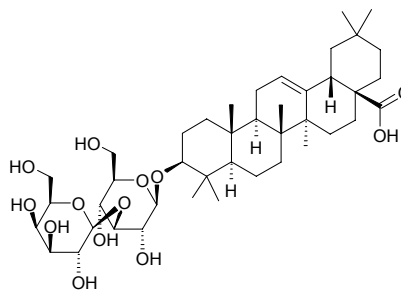
[65597-45-7] $C_{36}H_{54}O_{12}$ (678.82). **Source:** HU HUANG LIAN *Picrorhiza kurroa*, LIU LI FAN LV *Anagallis arvensis*, NANG GAI SI GUA *Luffa operculata*. **Ref:** 660, 1521, 2593.

**1828 ArvensideA**

3-*O*-[β -*D*-Galactopyranosyl-(1→3)- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucopyranosylolean-12-en-28-oic acid $C_{48}H_{78}O_{18}$ (943.15). **Pharm:** Anti-inflammatory. **Source:** XIAO JIN ZHAN HUA *Calendula arvensis*. **Ref:** 658.

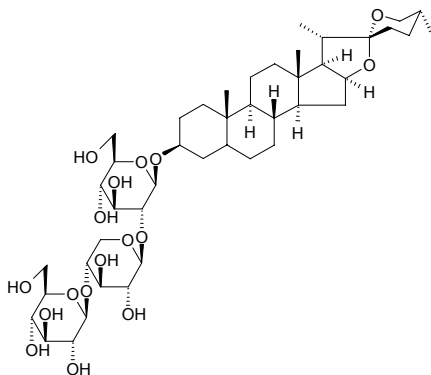
**1829 Arvenside A**

$C_{42}H_{68}O_{13}$ (781.00). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

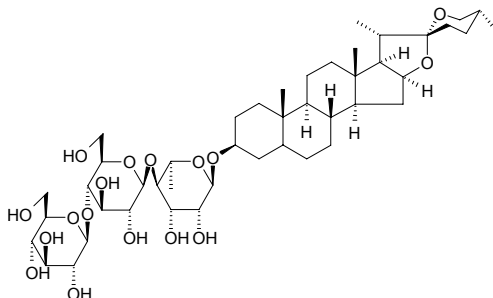


1830 AS-1 A

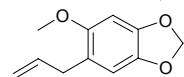
$C_{44}H_{72}O_{17}$ (873.05). **Source:** SHI DIAO BAI *Asparagus officinalis*. **Ref:** 697.

**1831 AS-1 B**

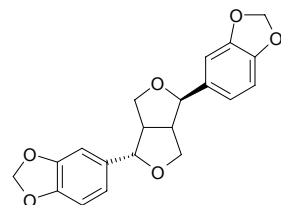
$C_{45}H_{74}O_{17}$ (887.08). **Source:** SHI DIAO BAI *Asparagus officinalis*. **Ref:** 697.

**1832 Asaricin**

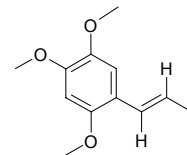
Sarisan $C_{11}H_{12}O_3$ (192.22). **Pharm:** Antifungal. **Source:** DA HUA XI XIN *Asarum maximum*, DU HENG *Asarum forbesii*, JIA JU *Piper sarmentosum*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], SHUANG YE XI XIN *Asarum caulescens*, XI XIN *Asarum sieboldii*. **Ref:** 658, 660.

**1833 Asarinin**

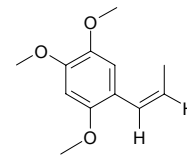
[133-03-9] $C_{20}H_{18}O_6$ (354.36). mp (+) 121~122°C, (-) 22~24°C. **Pharm:** Synergist of pyrethrin; phytogrowth inhibitor (100µg/mL, *Amaranthus hypochondriacus*, InRt = (93.2±1.9)%; *E. crusgalli*, InRt = (89.5±0.6)%^[5253]). **Source:** A NUO TI HUA JIAO *Zanthoxylum arnotianum*, DE KA RUI HUA JIAO *Zanthoxylum decaryi*, HU JIAO HUA JIAO *Zanthoxylum piperitum*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum* (dried whole herb: mean content = 0.193%^[5508]), MAO PAO TONG *Paulownia tomentosa*, RU DI JIN NIU *Zanthoxylum nitidum* (dried root: content = 0.093%^[5508]), XI XIN *Asarum sieboldii* (dried whole herb: mean content = 0.136%^[5508]), *Stauranthus perforatus* (root). **Ref:** 6, 658, 660, 5253, 5508.

**1834 α-Asarone**

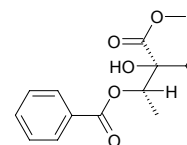
[2883-98-9] $C_{12}H_{16}O_3$ (208.26). mp 67°C; 62°C, bp 296°C. **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 92.3µmol/L; CYP2D6, IC₅₀ > 100µmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72µmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082µmol/L)^[4797]. **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00028%dw^[4797]), SHI CHANG PU *Acorus tatarinowii*, XI XIN *Asarum sieboldii* (whole herb: content = 0.24%^[5501]), *Asarum* spp. **Ref:** 1521, 4797, 5501, 5508.

**1835 β-Asarone**

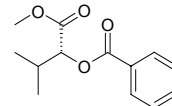
2,4,5-Trimethoxypropenyl benzene [5273-86-9] $C_{12}H_{16}O_3$ (208.26). bp 162~163°C/12mmHg. **Pharm:** Carcinogen. **Source:** BAI CHANG *Acorus calamus*, JIN QIAN PU *Acorus gramineus*, JIN QIAN PU YE *Acorus gramineus*, OU XI XIN *Asarum europaeum*, RI BEN CHANG PU *Acorus calamus* var. *angustatus*, SHI CHANG PU *Acorus tatarinowii* (dried rhizome: content scope of 12 origins = 0.25%~3.68%, mean content = 1.13%^[5508]), SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], XIA YE HU JIAO *Piper angustifolium*. **Ref:** 6, 658, 660, 5501, 5508.

**1836 Asarumin A**

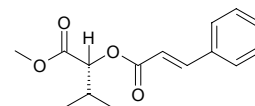
[126518-75-0] $C_{15}H_{20}O_5$ (280.32). Colorless chunk (ethyl acetate), mp 89~91°C, [α]_D²³ = +4.10° (c = 0.9, methanol). **Pharm:** Antiallergic (rat, inhibits skin allergy, 300mg/kg orl, InRt = 44.4%). **Source:** DU HENG *Asarum forbesii*. **Ref:** 926, 1191.

**1837 Asarumin B**

[126518-76-1] $C_{13}H_{16}O_4$ (236.27). Colorless oil-like substance, [α]_D²³ = +0.48° (c = 2.0, chloroform). **Pharm:** Antiallergic (rat, inhibits skin allergy, 300mg/kg orl, InRt = 25.1%). **Source:** DU HENG *Asarum forbesii*. **Ref:** 926, 1191.

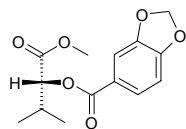
**1838 Asarumin C**

[126518-77-2] $C_{15}H_{18}O_4$ (262.31). Colorless oil-like substance, [α]_D²³ = +30.5° (c = 0.2, chloroform). **Pharm:** Antiallergic (rat, inhibits skin allergy, 300mg/kg orl, InRt = 36.2%). **Source:** DU HENG *Asarum forbesii*. **Ref:** 926, 1191.

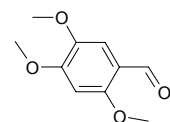


1839 Asarumin D

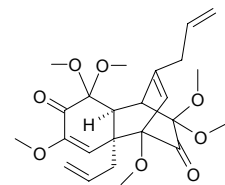
$C_{14}H_{16}O_6$ (280.28). **Source:** DU HENG *Asarum forbesii*. **Ref:** 660.

**1840 Asarylaldehyde**

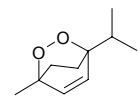
1,2,4-Trimethoxyphenyl-5-aldehyde [4460-86-0] $C_{10}H_{12}O_4$ (196.20). White rhombic crystals (alcohol), mp 112~114°C; Needles ($CHCl_3$ or H_2O), mp 114°C; soluble in hot water, ether, benzene and petroleum ether. **Pharm:** Antiasthmatic; antihistamine (inhibits histamine release, rat megalocyte *in vitro*, caused by ConA, 1000 $\mu\text{mol/L}$, InRt = 46%). **Source:** BAI CHANG *Acorus calamus*, BI CHENG QIE *Piper cubeba*, HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HE SHI FENG *Daucus carota*, NAN HE SHI *Daucus carota*, OU XI XIN *Asarum europaeum*. **Ref:** 6, 900, 1521, 2537.

**1841 Asatone**

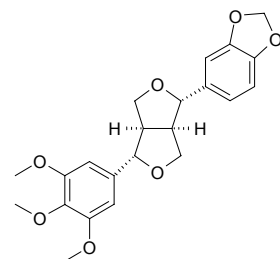
[38451-63-7] $C_{24}H_{32}O_8$ (448.52). White crystals, mp 101~102°C (hexane), $[\alpha]_D^{20} = 0^\circ$ (methanol). **Pharm:** Antineoplastic (mus *in vivo*, sarcoma) **Source:** TAI DONG XI XIN *Asarum taitoense*. **Ref:** 658, 661.

**1842 Ascaridole**

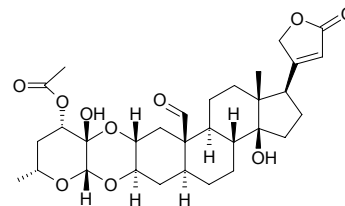
[512-85-6] $C_{10}H_{16}O_2$ (168.24). Pale yellow oil, mp 2.5°C, bp 115°C/15mmHg, $[\alpha]_D^{25} = 0^\circ$ ($c = 3.0$, $CHCl_3$). **Pharm:** Antibacterial; antimalarial; anthelmintic; toxin; antitrypanosomal (*in vitro*, epimastigotes of *Trypanosoma cruzi*, MLC = 23 $\mu\text{mol/L}$)^[4619]. **Source:** TU JING JIE *Chenopodium ambrosioides* (fresh aerial part including immature seed: yield = 0.0113%fw)^[4619], XIANG LI *Chenopodium botrys*. **Ref:** 6, 658, 4619.

**1843 Aschantin**

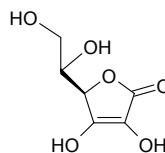
[13060-15-6] $C_{22}H_{24}O_7$ (400.43). **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 543.

**1844 Asclepin**

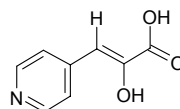
[36573-63-4] $C_{31}H_{42}O_{10}$ (574.67). mp 308~309°C, $[\alpha]_D = +10^\circ$ (chloroform). **Pharm:** Cardiotonic (increases normal or prostrate myocardial contractility); LD_{50} (cat, iv) = 0.236mg/kg. **Source:** LIAN SHENG GUI ZI HUA *Asclepias curassavica*. **Ref:** 658, 661.

**1845 Ascorbic acid**

Vitamin C $C_6H_8O_6$ (176.13). Colorless crystals, mp 190~192°C (dec), $[\alpha]_D^{25} = +20.5^\circ \sim +21.5^\circ$ (water), soluble in water, EtOH.^[5507] **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} = (3.35 \pm 0.01) \mu\text{g/mL}$)^[2565]; antioxidant (SOD-like activity, $EC_{50} = 34.6 \mu\text{mol/L}$)^[3408]; antioxidant (DPPH scavenger, $EC_{50} = 6.25 \mu\text{mol/L}$)^[3408]; antioxidant (DPPH scavenger, $IC_{50} = 16.5 \mu\text{mol/L}$)^[3771]; antioxidant (DPPH scavenger, TLC, MIA < 0.10 μg , $IC_{50} = 18 \mu\text{g/mL}$)^[3785, 5247]; antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$)^[3850]; antioxidant (DPPH scavenger, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$)^[4154]; antioxidant (DPPH scavenger, $IC_{50} = 10.3 \mu\text{mol/L}$)^[4376]; antioxidant (DPPH scavenger, $IC_{50} = 16.5 \mu\text{mol/L}$)^[4379]; antioxidant (DPPH scavenger, $IC_{50} = (2.49 \pm 0.32) \mu\text{g/mL}$)^[5307]; antioxidant (DPPH scavenger, $IC_{50} = 16.5 \mu\text{mol/L}$)^[5483]; antioxidant (hydroxyl radical scavenger, $IC_{50} = 51.8 \mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 86.2 \mu\text{mol/L}$)^[4289]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 10.0 \mu\text{g/mL}$)^[3850]; antibacterial; anti-infective; antidote; antihypercholesterolemic; inhibits production of carcinogen; induces tissue to produce collagen; hematopoietic. **Source:** BAI GUO *Ginkgo biloba*, CU LIU GUO *Hippophae rhamnoides* (dried ripe fruit: content = 0.95%^[5508]) GOU QI ZI *Lycium chinense*, SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: mean content of 2 origins = 0.07%^[5508]), YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: mean content of 2 origins = 0.18%^[5508]). **Ref:** 2, 658, 660, 2565, 3408, 3771, 3785, 3850, 4154, 4289, 4376, 4379, 5247, 5307, 5483, 5507, 5508.

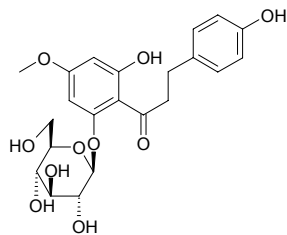
**1846 Ascocochine**

(Z)-2-Hydroxy-3-(4-pyridyl)-2-propenoic acid $C_8H_7NO_3$ (165.15). **Pharm:** Herbicidal (selective herbicide)^[3772]. **Source:** *Ascochyta sonchi*. **Ref:** 3772.

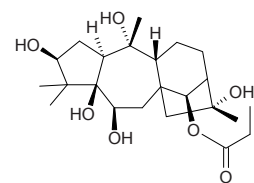


1847 Asebotin

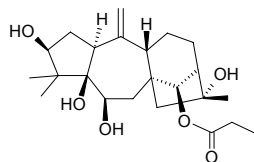
Asebotoside; Lyonotin C₂₂H₂₆O₁₀ (450.45). Source: MENG GU FENG MAO JU *Saussurea mongolica*. Ref: 4958.

**1848 Asebotoxin I**

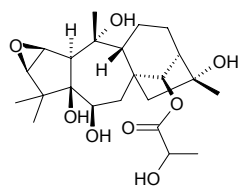
C₂₃H₃₈O₇ (426.56). Source: RI BEN MA ZUI MU *Pieris japonica* (the compound was separated from the plant in 1970). Ref: 5505.

**1849 Asebotoxin II**

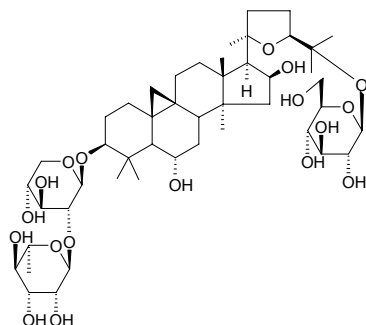
[23984-18-1] C₂₃H₃₆O₆ (408.54). Pharm: Supertoxic agent. Source: RI BEN MA ZUI MU *Pieris japonica* (the compound was isolated from the plant in 1970)^[5505]. Ref: 658, 5505.

**1850 Asebotoxin III**

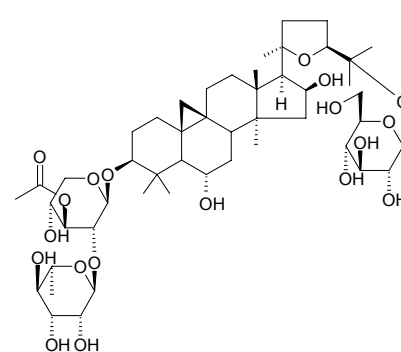
C₂₃H₃₆O₈ (440.54). White solid. Source: JIN YE ZI *Craibiodendron yunnanese* (leaf), RI BEN MA ZUI MU *Pieris japonica* (the compound was isolated from the plant in 1970)^[5505]. Ref: 4575, 5505.

**1851 Asernestioside A**

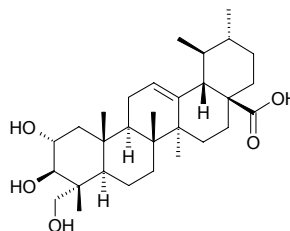
C₄₇H₇₈O₁₈ (931.13). Source: SUO GUO HUANG QI *Astragalus ernestii* (root). Ref: 660.

**1852 Asernestioside B**

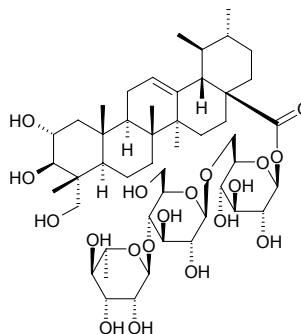
C₄₉H₈₀O₁₉ (973.17). Source: SUO GUO HUANG QI *Astragalus ernestii* (root). Ref: 660.

**1853 Asiatic acid**

[464-92-6] C₃₀H₄₈O₅ (488.71). Pharm: Aids in generation of neuroglia; promotes wound healing (external use); promotes cuticle cornification; stimulates granulation; induces gene expression changes (hmn fibroblast, IC₅₀ = (60±5)μg/mL)^[5430]. Source: BING PIAN *Dryobalanops aromatica*, JI XUE CAO *Centella asiatica* (dried whole herb: content scope of 3 origins = 0.09%~0.14%, mean content = 0.114%^[5508]). Ref: 2, 5430, 5508.

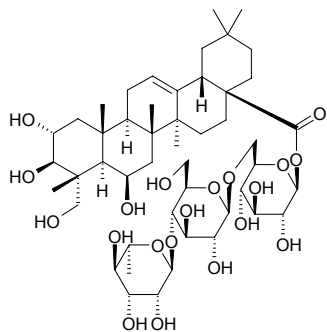
**1854 Asiaticoside**

2α,3β,23-Trihydroxyurs-12-en-28-oic acid *O*-α-*L*-rhamnopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranosyl ester; Centellasaponin A [16830-15-2] C₄₈H₇₈O₁₉ (959.15). mp 230~233°C, [α]_D²⁰ = -14° (EtOH). Pharm: Anti-inflammatory (iNOS inhibitor, rats, during gastric ulcer healing, Asiaticoside (5mg/kg and 10mg/kg) were orally administered to rats with acetic acid-induced gastric ulcers to reduce the size of the ulcers at 1d, 3d and 7d)^[4089]; induces gene expression changes (hmn fibroblast, IC₅₀ > 400μg/mL)^[5430]. Source: JI XUE CAO *Centella asiatica* (dried whole herb: content scope of 9 origins = trace~1.14%, mean content = 0.539%^[5508]), SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 6, 4089, 4135, 4545, 5430, 5508.

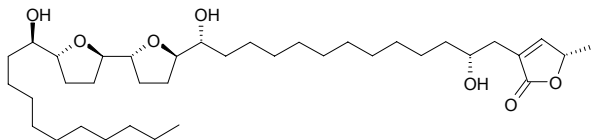


1855 Asiaticoside B

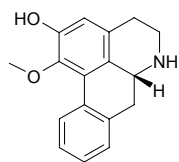
$C_{48}H_{78}O_{20}$ (975.14). Source: JI XUE CAO *Centella asiatica* (aerial parts). Ref: 4135.

**1856 Asimicin**

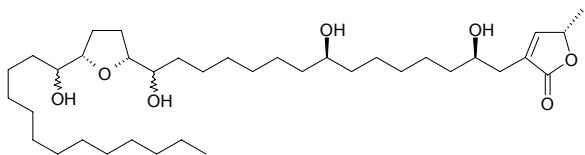
$C_{37}H_{66}O_7$ (622.93). Colorless oil, $[\alpha]_D^{25} = +32.6^\circ$ ($c = 0.09$, $CHCl_3$). Pharm: Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.0628\text{ng/mL}$, control Adriamycin, $IC_{50} = 0.241\mu\text{g/mL}$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.066\text{ng/mL}$, Adriamycin, $IC_{50} = 0.450\mu\text{g/mL}$). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 5377.

**1857 Asimilobine**

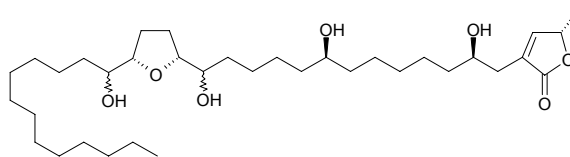
(-)-Asimilobine [6871-21-2] $C_{17}H_{17}NO_2$ (267.33). mp 177~179°C. Pharm: Antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, $ED_{50} = 950\text{ng/mL}$, chloroquine-endured strain W2, $ED_{50} = 470\text{ng/mL}$); 5-HT receptor antagonist (rbt, *in vitro* aortal contraction induced by 5-HT). Source: DA ZAO *Ziziphus jujuba*, HOU PO *Magnolia officinalis*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root,stem,leaf)^[3083]. Ref: 2, 625, 1480, 3083.

**1858 Asitribolin A**

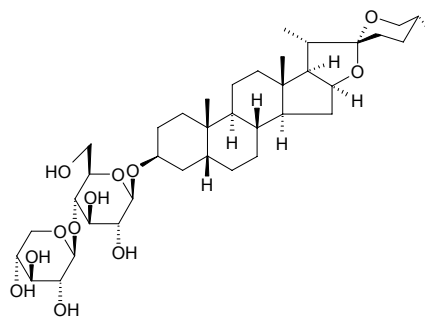
$C_{37}H_{68}O_7$ (624.95). White amorphous powder, mp 79.3~82.5°C, $[\alpha]_D^{22} = -2.6^\circ$ ($c = 0.03$, CH_2Cl_2). Source: PAO PAO SHU *Asimina triloba*. Ref: 1857.

**1859 Asitribolin B**

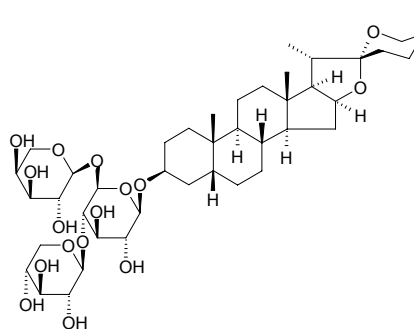
$C_{35}H_{64}O_7$ (596.90). White amorphous powder, mp 65.3~68.4°C, $[\alpha]_D^{22} = +23.3^\circ$ ($c = 0.03$, CH_2Cl_2). Source: PAO PAO SHU *Asimina triloba*. Ref: 1857.

**1860 Aspafilioside A**

3-O-[β -D-Xylopyranosyl(1 \rightarrow 4)]-[β -D-glucopyranosyl]- (25S)-5 β -spirostan-3 β -ol [72947-73-0] $C_{38}H_{62}O_{12}$ (710.91). White acicular crystals (methanol), mp 210~212°C, $[\alpha]_D^{14} = -36.5^\circ$ ($c = 0.09$, chloroform-methanol); $[\alpha]_D^{21} = -70.2^\circ$ ($c = 0.20$, C_5H_5N). Pharm: Spermaticidal (inhibits activity of hmn sperm *in vitro*, 1mg/mL, activity down to 56%, 2mg/mL, activity down to 0%); cytotoxic (*in vitro*, HO-8910, $IC_{50} = (24.6\pm 0.7)\mu\text{mol/L}$, Vincristine, $IC_{50} = (25.1\pm 1.9)\mu\text{mol/L}$; Bel-7405, $IC_{50} = (30.8\pm 2.6)\mu\text{mol/L}$, Vincristine, $IC_{50} = (31.4\pm 3.4)\mu\text{mol/L}$)^[4975]. Source: SHI DIAO BAI *Asparagus officinalis*, TU BAI BU *Asparagus filicinus*, GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 159, 1159, 4975.

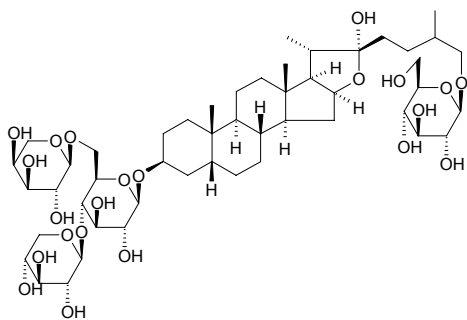
**1861 Aspafilioside B**

[131123-73-4] $C_{43}H_{70}O_{16}$ (843.03). White acicular crystals, mp 180~182°C (methanol), $[\alpha]_D^{14} = -47.3^\circ$ ($c = 0.07$, $CHCl_3$ -MeOH). Pharm: Spermaticidal (hmn, 1mg/mL, spermatic activity = 18%, 2mg/mL, spermatic activity = 0%). Source: SHI DIAO BAI *Asparagus officinalis*, TU BAI BU *Asparagus filicinus*. Ref: 159, 1159.

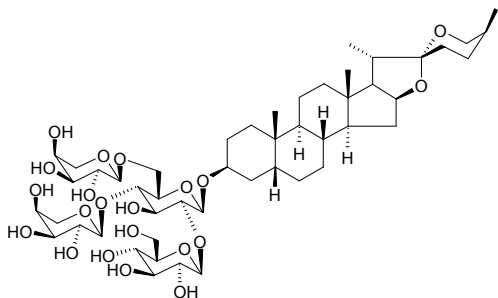


1862 Aspafiloside C

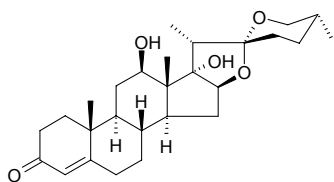
[131123-74-5] C₄₉H₈₂O₂₂ (1023.19). White amorphous powder (MeOH), mp 178~180°C, [α]_D²⁰ = -36.5° (c = 0.09, CHCl₃-MeOH). **Pharm:** Spermaticidal (inhibits activity of hmn sperm *in vitro*, 1mg/mL, activity down to 14%, 2mg/mL, activity down to 0%). **Source:** XIAO BAI BU *Asparagus officinalis*, TU BAI BU *Asparagus filicinus*. **Ref:** 159, 1159.

**1863 Asparacoside**

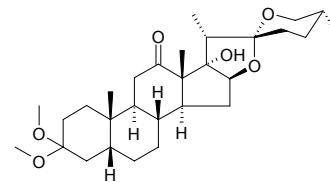
(25*S*)-5β-Spirostan-3β-ol-3-*O*-α-*L*-arabinopyranosyl-(1→6)-[α-*L*-arabinopyranosyl-(1→4)]-[β-*D*-glucopyranosyl-(1→2)]-β-*D*-glucopyranoside C₄₉H₈₀O₂₁ (1005.17). White powder, [α]_D²⁰ = -35.2° (c = 0.57, MeOH:CHCl₃ = 1:1). **Pharm:** Cytotoxic (*in vitro*, Lu1, IC₅₀ = 4.2μg/mL (4.2μmol/L), LNCaP, IC₅₀ = 10.1μg/mL (10.1μmol/L), Col2, IC₅₀ = 5.4μg/mL (5.4μmol/L), HUVEC, IC₅₀ = 4.1μg/mL (4.1μmol/L), KB, IC₅₀ = 4.8μg/mL (4.8μmol/L), HOG.R5, IC₅₀ < 10μg/mL (< 10μmol/L), control Ellipticine: Lu1, IC₅₀ = 0.02μg/mL (0.08μmol/L), LNCaP, IC₅₀ = 0.8μg/mL (3.25μmol/L), Col2, IC₅₀ = 0.3μg/mL (1.22μmol/L), HUVEC, IC₅₀ = 0.09μg/mL (0.37μmol/L), KB, IC₅₀ = 0.04μg/mL (0.16μmol/L), HOG.R5, IC₅₀ = 0.02μg/mL (0.08μmol/L)). **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.015%dw). **Ref:** 3009.

**1864 Asparacosin A**

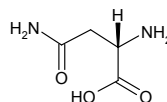
(25*R*)-12β,17α-Dihydroxyspirost-4-en-3-one C₂₇H₄₀O₅ (444.62). Colorless flake, [α]_D²⁰ = -13.0° (c = 0.53, MeOH). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 10.7μg/mL (24.1μmol/L), control Ellipticine, IC₅₀ = 0.04μg/mL (0.16μmol/L)), cytotoxic inactive (Lu1, LNCaP, Col2, HUVEC, IC₅₀ > 20μg/mL). **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.0074%dw). **Ref:** 3009.

**1865 Asparacosin B**

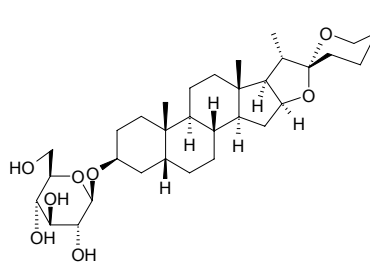
(25*R*)-3,3-Dimethoxy-17α-hydroxyspirostan-3-ol-12-one C₂₉H₄₆O₆ (490.69). Colorless flake, [α]_D²⁰ = -21.7° (c = 0.73, MeOH). **Pharm:** Cytotoxic inactive (KB, Col2, LNCaP, Lu1, HUVEC, IC₅₀ > 20μg/mL). **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.00036%dw). **Ref:** 3009.

**1866 L-Asparagine**

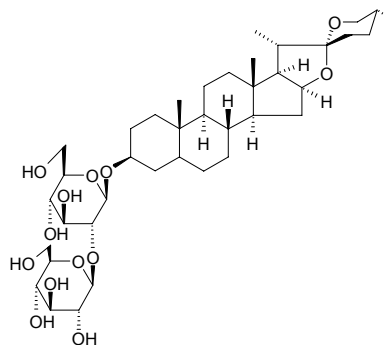
[7006-34-0] C₄H₈N₂O₃ (132.32). Hydrate, trapezoidal half-plane crystals, mp 234~235°C, [α]_D²⁰ = -5.42° (c = 1.3); [α]_D²⁰ = -9.3° (c = 1mol/L, 1mol/L hydrochloric acid). **Pharm:** Antineoplastic; antitussive (animal model); enhances myocardial contractility with peripheral anapetia (iv); slows heart rate and enhances amount of urine (iv); antihypertensive; diuretic; nutrient. **Source:** CHANG GUAN XUAN CAO *Hemerocallis longituba*, LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], XIAO BAI BU *Asparagus officinalis*, XIAO GUO KA FEI *Coffea arabica*, XUAN SHEN *Scrophularia ningpoensis*, *Glycine* sp., *Vicia* sp. **Ref:** 658, 661.

**1867 Asparoside A**

[14835-43-9] C₃₃H₅₄O₈ (578.79). **Source:** XIAO BAI BU *Asparagus officinalis*. **Ref:** 658.

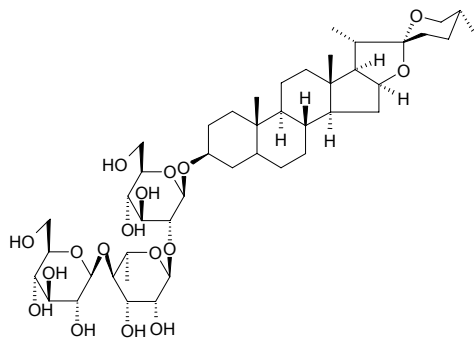
**1868 Asparanin A**

C₃₉H₆₄O₁₃ (740.94). **Source:** SHANG JU TIAN MEN DONG *Asparagus adscendens*. **Ref:** 697.

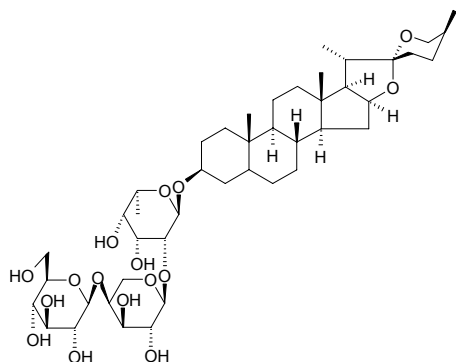


1869 Asparanin B₁

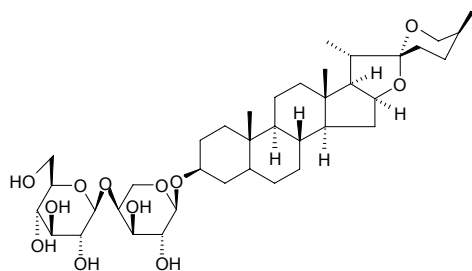
$C_{45}H_{74}O_{17}$ (887.08). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

**1870 Asparanin B₂**

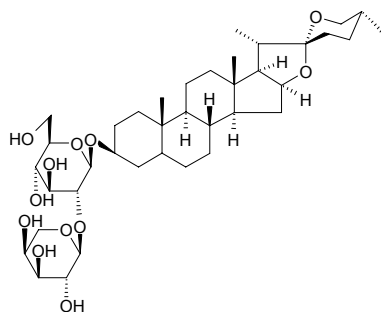
$C_{44}H_{72}O_{16}$ (857.05). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1871 Asparanin B₃**

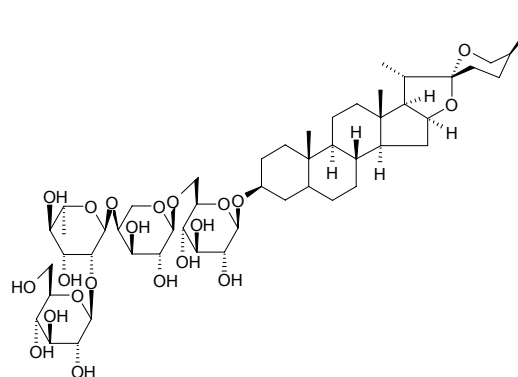
$C_{38}H_{62}O_{12}$ (710.91). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1872 Asparanin B₄**

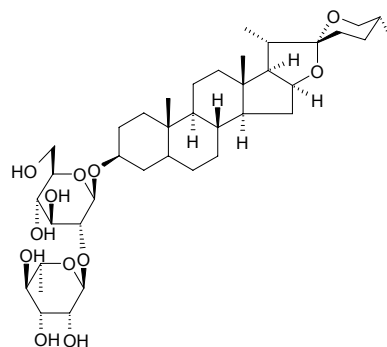
$C_{38}H_{62}O_{12}$ (710.91). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1873 Asparanin B₅**

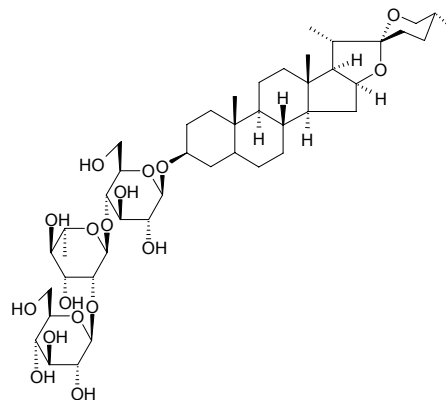
$C_{50}H_{82}O_{21}$ (1019.20). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1874 Asparanin B₆**

$C_{39}H_{64}O_{12}$ (724.94). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

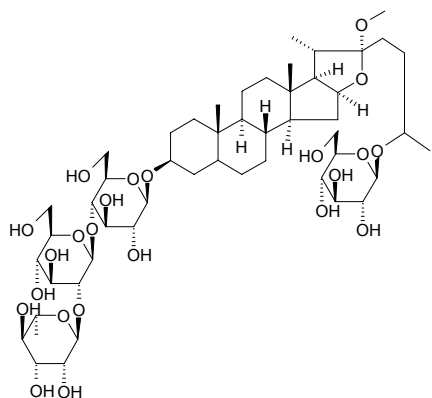
**1875 Asparanin B₇**

$C_{45}H_{74}O_{17}$ (887.71). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

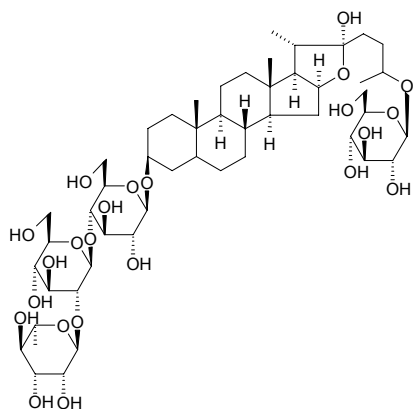


1876 Asparanin B₈

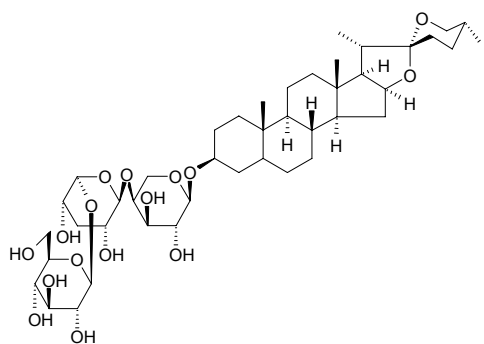
$C_{51}H_{86}O_{23}$ (1067.24). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1877 Asparanin B₉**

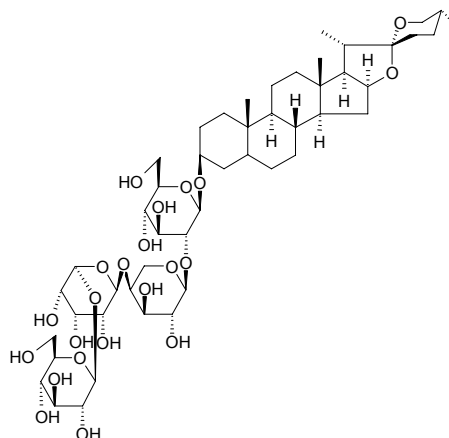
$C_{50}H_{84}O_{23}$ (1053.21). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1878 Asparanin C**

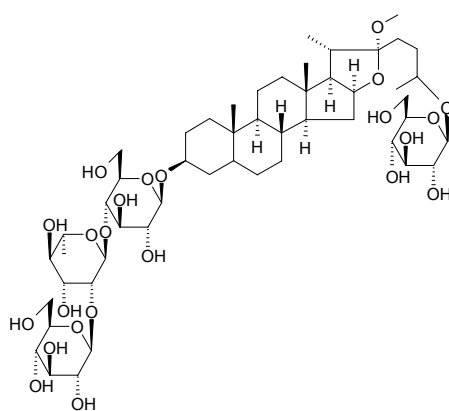
$C_{43}H_{70}O_{16}$ (843.03). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

**1879 Asparanin D**

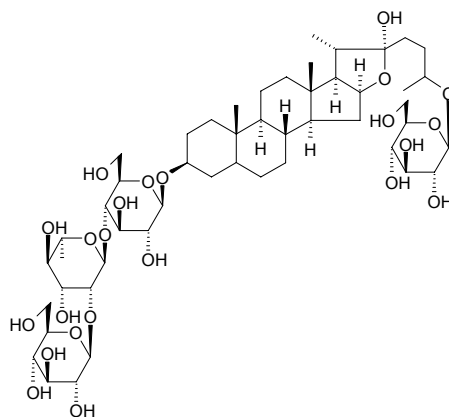
$C_{49}H_{80}O_{22}$ (1021.17). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

**1880 Asparaside A**

$C_{51}H_{86}O_{23}$ (1067.24). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

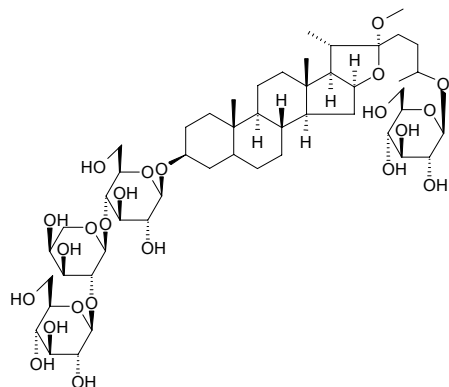
**1881 Asparaside B₁**

$C_{50}H_{84}O_{23}$ (1053.21). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

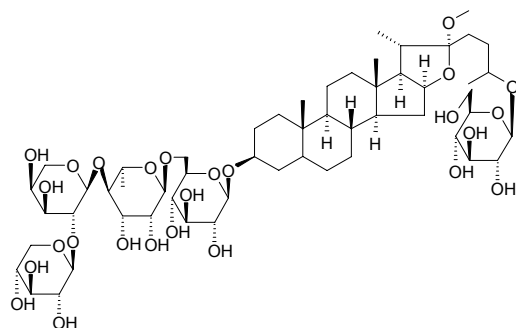


1882 Asparaside B₂

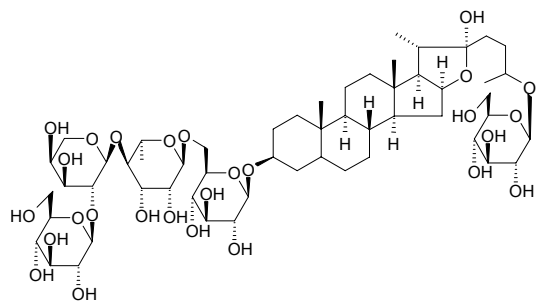
C₅₀H₈₄O₂₃ (1053.21). Source: WAN QU TIAN MEN DONG *Asparagus curillus*. Ref: 697.

**1883 Asparaside C**

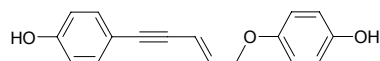
C₅₅H₉₂O₂₆ (1169.33). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

**1884 Asparaside D**

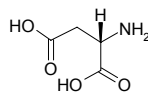
C₅₅H₉₂O₂₇ (1185.33). Source: SHANG JU TIAN MEN DONG *Asparagus adscendens*. Ref: 697.

**1885 Asparenydiol**

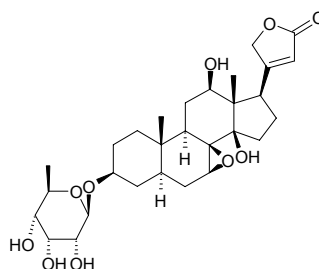
C₁₇H₁₆O₃ (268.32). Pharm: Cytotoxic (*in vitro*, KB, IC₅₀ = 2.4 μg/mL (8.5 μmol/L), Lu1, IC₅₀ = 19.8 μg/mL), HOG.R5, IC₅₀ < 5 μg/mL (< 18 μmol/L), control Ellipticine: KB, IC₅₀ = 0.04 μg/mL (0.16 μmol/L), Lu1, IC₅₀ = 0.02 μg/mL (0.08 μmol/L), HOG.R5, IC₅₀ = 0.02 μg/mL (0.08 μmol/L)); cytotoxic inactive (Col2, LNCaP, HUVEC, IC₅₀ > 20 μg/mL). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.00004% dw). Ref: 3009.

**1886 L-Aspartic acid**

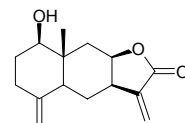
[56-84-8] C₄H₇NO₄ (133.10). Pharm: CNS stimulant (high dose); nutrient. Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 1.65%~2.40%, mean content = 1.98%)^[5521], *Coffea* sp. Ref: 658, 5521.

**1887 Aspecioside**

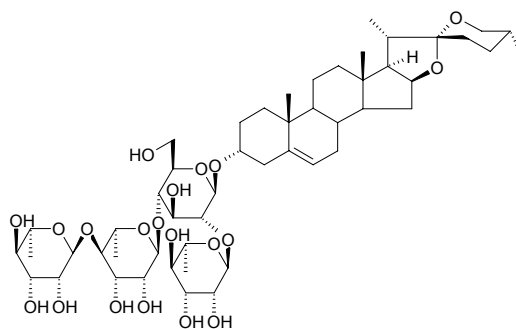
C₂₉H₄₂O₁₀ (550.65). Pharm: Toxin (vertebrate). Source: MEI LI MA LI JIN *Asclepias speciosa*, XU LI YA MA LI JIN *Asclepias syriaca*. Ref: 658.

**1888 Asperilin**

C₁₅H₂₀O₃ (248.32). Source: CAO YE YI WA JU *Iva asperifolia*, JIN FEI CAO *Inula japonica*, MEI LI TE LE JU *Telekia speciosa*. Ref: 1521, 5422.

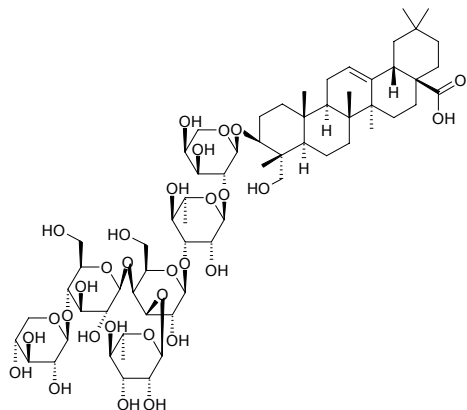
**1889 Asperin**

C₅₁H₈₂O₂₀ (1015.21). Source: CHUAN LONG SHU YU *Dioscorea nipponica*. Ref: 660.

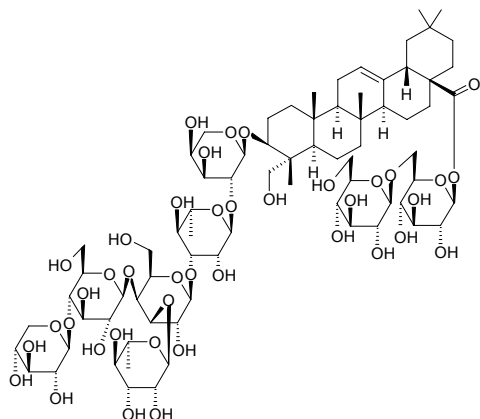


1890 Asperosaponin F

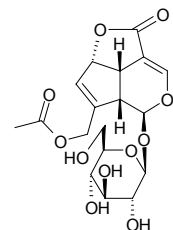
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-(1 \rightarrow 4)][α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl]-hederagenin C₆₄H₁₀₄O₃₀ (1353.52). White powder, mp 244~247°C, soluble in methanol, pyridine and water. Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 307.

**1891 Asperosaponin H₁**

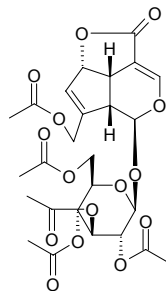
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)][α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-rabinopyranosyl]-hederagenin-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₇₆H₁₂₄O₄₀ (1677.81). White powder, mp 233~236°C, soluble in methanol, pyridine and water. Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 307.

**1892 Asperuloside**

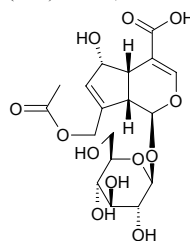
[14259-45-1] C₁₈H₂₂O₁₁ (414.37). mp 125~127°C. Pharm: Plant growth and germination inhibitor; laxative (mus, ED₅₀ = 0.24g/kg). Source: BA XIAN CAO *Galium aparine*, DA CHE QIAN *Plantago major*, JI SHI TENG *Paederia scandens*, JIAO RANG MU *Daphniphyllum macropodum*, PENG ZI CAI *Galium verum*, XIANG CHE YE CAO *Asperula odorata*, XIE JI CU YE MU *Lasianthus wallichii* (leaf), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], *Escallonia* sp. Ref: 6, 400, 626, 658, 660, 4238.

**1893 Asperuloside tetraacetate**

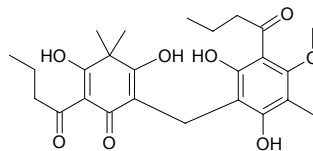
C₂₆H₃₀O₁₅ (582.52). Source: BA JI TIAN *Morinda officinalis*. Ref: 660.

**1894 Asperulosidic acid**

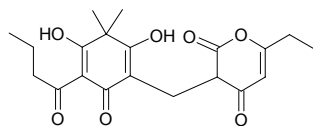
[25368-11-0] C₁₈H₂₄O₁₂ (432.38). Source: BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], HAI BA JI *Morinda citrifolia* (fruit). Ref: 7, 4542.

**1895 Aspidin**

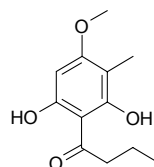
[584-28-1] C₂₅H₃₂O₈ (460.53). mp 125°C. Pharm: Anthelmintic (tapeworm and hookworm); toxin (smooth muscle of invertebrate). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*, GUAN ZHONG *Dryopteris crassirhizoma*, MAO GUAN ZHONG *Dryopteris championii*. Ref: 6, 658.

**1896 Aspidinin**

[19489-48-6] C₂₁H₂₆O₇ (390.44). mp 111~112°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6.

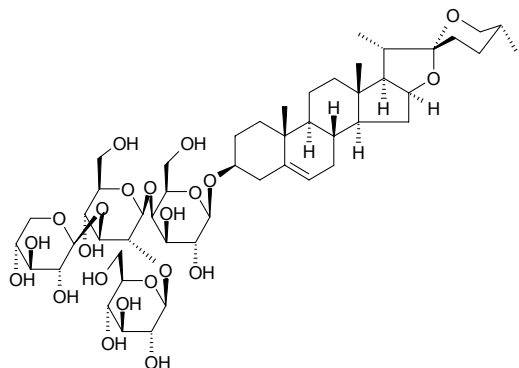
**1897 Aspidinol**

[519-40-4] C₁₂H₁₆O₄ (224.26). mp 156~161°C. Pharm: Anthelmintic; antibacterial. Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*, GUAN ZHONG *Dryopteris crassirhizoma*, MIAN MA *Dryopteris filix-mas*, TI GAI JUE *Athyrium filix-femina*. Ref: 6, 658.

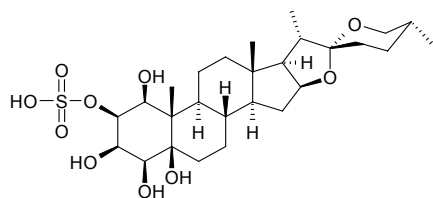


1898 Aspidistrin

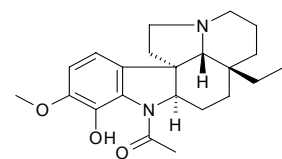
$C_{50}H_{80}O_{22}$ (1033.18). mp 265~267°C (dec). Source: BAI MAO TENG *Solanum lyratum*, ZHI ZHU BAO DAN *Aspidistra elatior*. Ref: 6, 660.

**1899 Aspidistrogenin A**

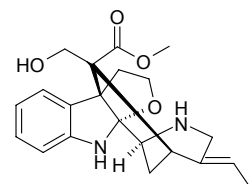
(25S)-Spirost-1 β ,2 β ,3 β ,4 β ,5 β -pentol 2-sulfate $C_{27}H_{44}O_{10}S$ (560.71). White crystals. Source: ZHI ZHU BAO DAN *Aspidistra elatior*. Ref: 891.

**1900 Aspidocarpine**

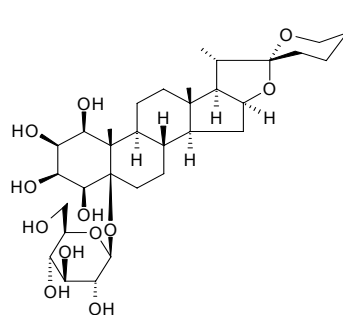
[466-45-5] $C_{22}H_{30}N_2O_3$ (370.50). Prismatic crystals, mp 168.5~169.5°C, $[\alpha]_D^{25} = +140^\circ$ (c = 2.2, $CHCl_3$), $pK_a = 6.55$. Source: *Aspidosperma album*, *Aspidosperma meglacarbon*, *Aspidosperma formasanum*, *Aspidosperma marcgravianum*, *Aspidosperma neblinae*. Ref: 2099.

**1901 Aspidodasycarpine**

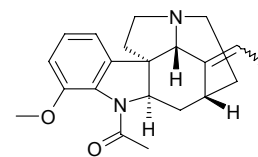
[2744-47-0] $C_{21}H_{26}N_2O_4$ (370.45). Pharm: Antipyretic. Source: CU MAO GUO BAI JIAN MU *Aspidosperma dasycarbon*, JIAN BAI JIAN MU *Aspidosperma cuspa*. Ref: 658.

**1902 Aspidoside A**

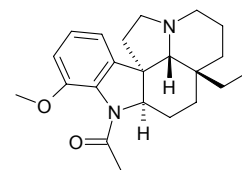
1 β ,1 β ,3 β ,4 β ,5 β -Pentahydroxy-spirost-25(27)-ene5-O- β -D-glucopyranoside $C_{33}H_{52}O_{12}$ (640.78). White crystals. Source: ZHI ZHU BAO DAN *Aspidistra elatior*. Ref: 891, 2099.

**1903 Aspidospermatine**

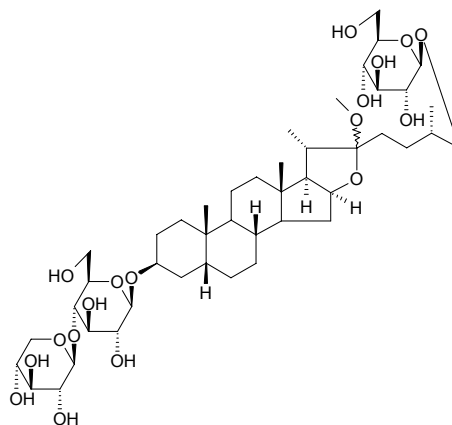
$C_{21}H_{26}N_2O_2$ (338.45). Pharm: Antiasthmatic. Source: PU TONG BAI JIAN MU *Aspidosperma quebracho-blanco*. Ref: 658.

**1904 Aspidospermine**

[466-49-9] $C_{22}H_{30}N_2O_2$ (354.50). Pharm: Antibacterial; diuretic; respiratory stimulant; LD₅₀ (mus, ip) = 40mg/kg. Source: PU TONG BAI JIAN MU *Aspidosperma quebracho-blanco*, LENG ZHUANG BAI JIAN MU *Aspidosperma rhombeosignatum*. Ref: 658.

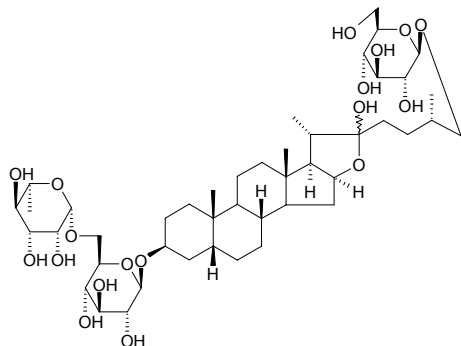
**1905 Asp-IV**

$C_{45}H_{76}O_{18}$ (905.10). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*]. Ref: 660.

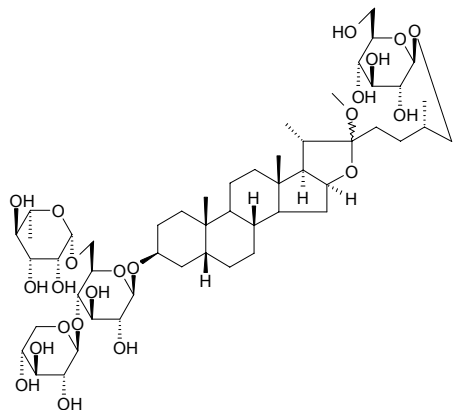


1906 Asp-V

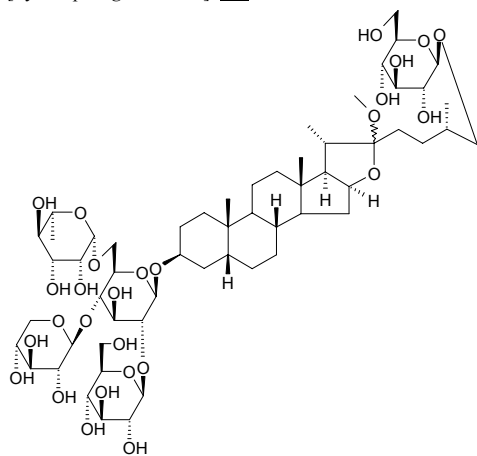
$C_{45}H_{76}O_{18}$ (905.10). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*]. Ref: 660.

**1907 Asp-VI**

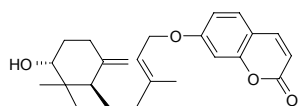
$C_{51}H_{86}O_{22}$ (1051.24). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*]. Ref: 660.

**1908 Asp-VII**

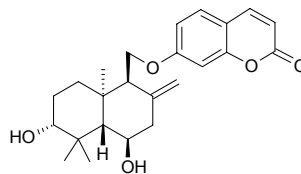
$C_{57}H_{96}O_{27}$ (1213.38). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*]. Ref: 660.

**1909 Assafoetidin**

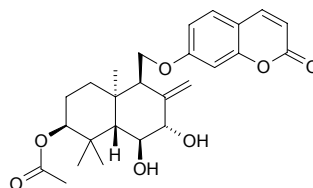
[115361-83-6] $C_{24}H_{30}O_4$ (382.50). Source: A WEI *Ferula assafoetida*. Ref: 7.

**1910 Assafoetidol A**

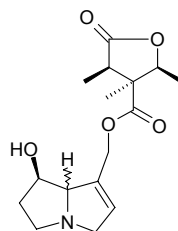
$C_{24}H_{30}O_5$ (398.50). Amorphous solid, $[\alpha]_D = -80.0^\circ$ ($c = 0.2$, MeOH). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

**1911 Assafoetidol B**

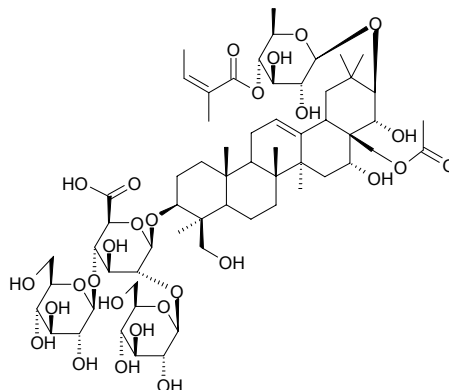
$C_{26}H_{32}O_7$ (456.54). Amorphous solid, $[\alpha]_D = +29.4^\circ$ ($c = 0.2$, MeOH). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

**1912 Assamicadine**

$C_{16}H_{23}NO_5$ (309.37). Source: ZI XIAO RONG ZI *Crotalaria assamica*. Ref: 660.

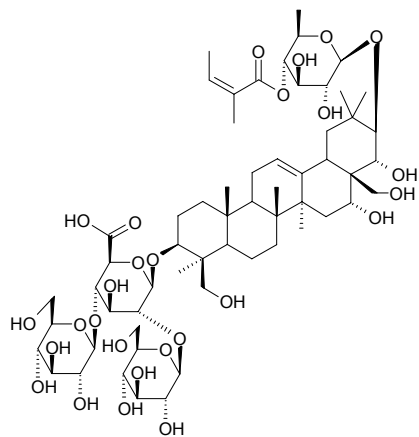
**1913 Assamicin III**

28-*O*-Acetyl-21-*O*-(4-*O*-angeloyl)-6-deoxy- β -glucopyranosyl-3-*O*-[β -glucopyranosyl(1 \rightarrow 2)-*O*-[β -glucopyranosyl(1 \rightarrow 4)]- β -glucuronopyranosyl]protoascigenin $C_{61}H_{96}O_{28}$ (1277.43). Amorphous powder, $[\alpha]_D^{24} = -47.8^\circ$ ($c = 0.2$, pyridine). Pharm: Antifungal (plant pathogenic fungus *Pyricularia oryzae*)^[4517]; cytotoxic (*in vitro*, K562, HCT15)^[4517]. Source: CHANG BING QI YE SHU *Aesculus assamica* (seed). Ref: 4517.

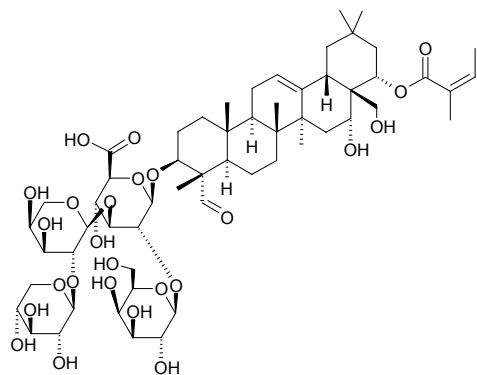


1914 Assamicin IV

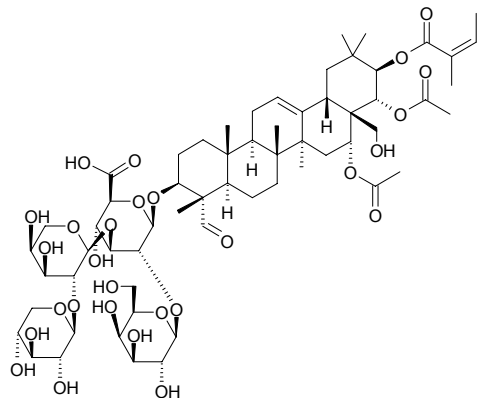
21-*O*-(4-*O*-Angeloyl)-6-deoxy- β -glucopyranosyl-3-*O*-[β -glucopyranosyl(1 \rightarrow 2)-*O*-[β -glucopyranosyl(1 \rightarrow 4)]- β -glucuronopyranosyl]protoaescigenin
 $C_{59}H_{94}O_{27}$ (1235.39). Amorphous powder, $[\alpha]_D^{24} = -40.5^\circ$ ($c = 0.2$, pyridine).
Pharm: Antifungal (plant pathogenic fungus *Pyricularia oryzae*); cytotoxic (*in vitro*, K562, HCT15). **Source:** CHANG BING QI YE SHU *Aesculus assamica* (seed). **Ref:** 4517.

**1915 Assamsaponin A**

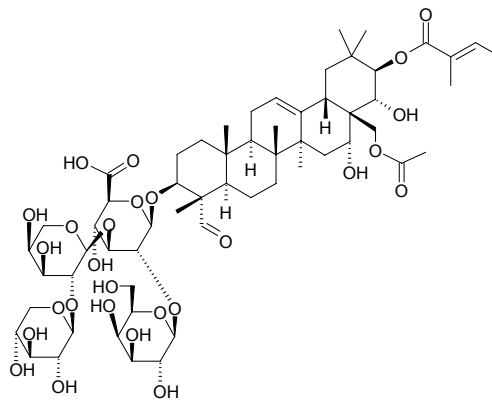
$C_{57}H_{88}O_{25}$ (1173.32). **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). **Ref:** 4537.

**1916 Assamsaponin B**

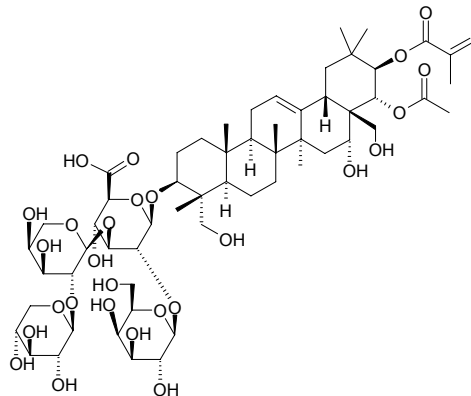
$C_{61}H_{92}O_{28}$ (1273.40). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). **Ref:** 4537.

**1917 Assamsaponin C**

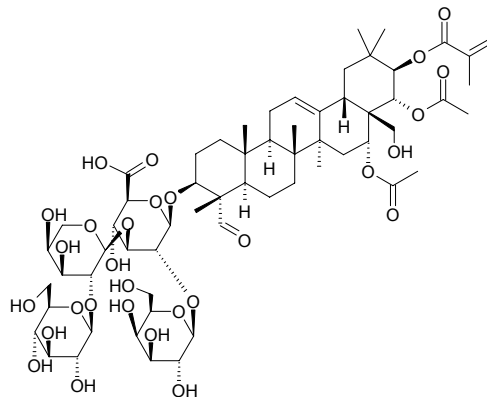
$C_{59}H_{90}O_{27}$ (1231.36). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). **Ref:** 4537.

**1918 Assamsaponin D**

$C_{59}H_{92}O_{27}$ (1233.37). **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). **Ref:** 4537.

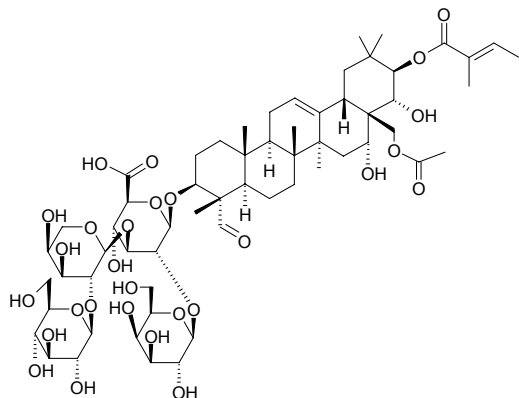
**1919 Assamsaponin F**

$C_{62}H_{94}O_{29}$ (1303.42). **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). **Ref:** 4537.

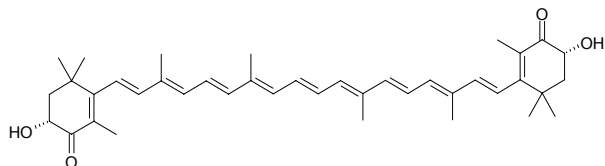


1920 Assamsaponin I

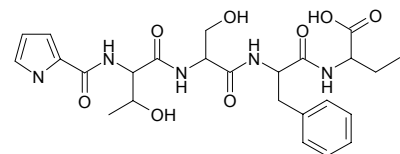
$C_{60}H_{92}O_{28}$ (1261.39). Source: PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). Ref: 4537.

**1921 Astaxanthin**

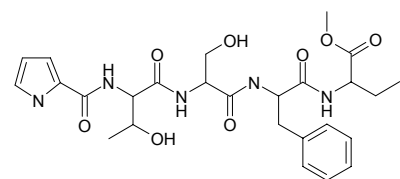
3,3'-Dihydroxy- β -carotene-4,4'-dione [472-61-7] $C_{40}H_{52}O_4$ (596.86). mp 215~216°C (dec). Source: JIN YU *Carassius auratus*, HAI XIA *Penaeus orientalis*, LI YU PI *Cyprinus carpio*. Ref: 6.

**1922 Asterin A**

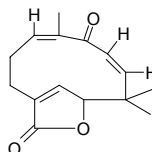
$C_{25}H_{33}N_5O_8$ (531.57). Source: ZI WAN *Aster tataricus*. Ref: 660.

**1923 Asterin B**

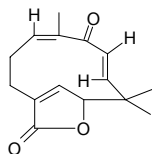
$C_{26}H_{35}N_5O_8$ (545.60). Source: ZI WAN *Aster tataricus*. Ref: 660.

**1924 Asteriscunolide A**

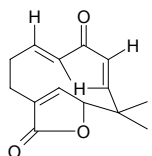
$C_{15}H_{18}O_3$ (246.31). Crystals, mp 155°C, mp 158°C. Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 75%, *L. paucicostata*, mortality = 90%); cytotoxic (P_{388} , IC_{50} = 4 μ mol/L, control *cis*-Platin, IC_{50} = 8 μ mol/L; A549, IC_{50} = 4 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L; HT29, IC_{50} = 10 μ mol/L, *cis*-Platin, IC_{50} = 16 μ mol/L; MEL-28, IC_{50} = 4 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L). Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

**1925 Asteriscunolide C**

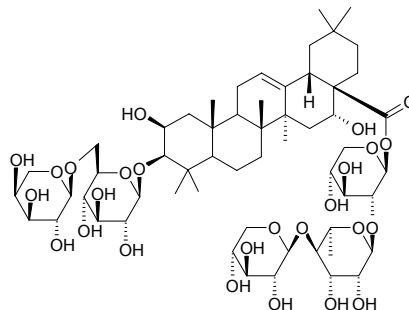
$C_{15}H_{18}O_3$ (246.31). Crystals, mp 165°C, mp 164°C. Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 62%, *L. paucicostata*, mortality = 94%); cytotoxic (P_{388} , IC_{50} = 4 μ mol/L, control *cis*-Platin, IC_{50} = 8 μ mol/L; A549, IC_{50} = 4 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L; HT29, IC_{50} = 10 μ mol/L, *cis*-Platin, IC_{50} = 16 μ mol/L; MEL-28, IC_{50} = 4 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L). Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

**1926 Asteriscunolide D**

$C_{15}H_{18}O_3$ (246.31). Crystals, mp 148°C, mp 145°C. Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 49%, *L. paucicostata*, mortality = 100%); cytotoxic (P_{388} , IC_{50} = 1 μ mol/L, control *cis*-Platin, IC_{50} = 8 μ mol/L; A549, IC_{50} = 1 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L; HT29, IC_{50} = 2 μ mol/L, *cis*-Platin, IC_{50} = 16 μ mol/L; MEL-28, IC_{50} = 1 μ mol/L, *cis*-Platin, IC_{50} = 8 μ mol/L). Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

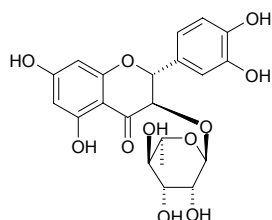
**1927 Astersaponin G**

$C_{57}H_{92}O_{26}$ (1193.35). Source: ZI WAN *Aster tataricus*. Ref: 660.

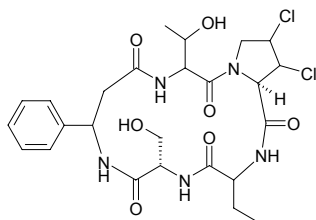


1928 Astilbin

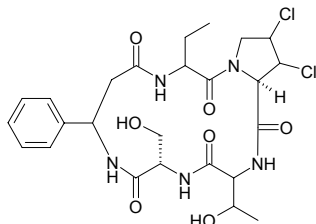
Taxifolin-3-*O*- α -L-rhamnoside [29838-67-3] C₂₁H₂₂O₁₁ (450.40). mp 180°C (dec). **Pharm:** Antioxidant (inhibits formation of active oxygen, IC₅₀ = 9.5nmol/L, used in treatment of rheumatic arthritis and atherosclerosis); antihemolytic (protects red blood cells against oxidation resulting in hemolysis); antineoplastic (B16 melanoma F-1, inhibits formation of melanin completely, inhibits TPA-induced activation of EBV-EA); anti-inflammatory (rat, swollen foot model caused by carrageenan); aldose reductase inhibitor (pig eye lens, 67 μ mol/L, InRt = 65%); antihepatotoxin; antimalarial (*Plasmodium falciparum* PoW, IC₅₀ = 50 μ g/mL, control Chloroquine diphosphate, IC₅₀ = (0.006 \pm 0.002) μ g/mL; Dd2, IC₅₀ < 50 μ g/mL, Chloroquine diphosphate, IC₅₀ = (0.06 \pm 0.01) μ g/mL)^[5208]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], LI MU *Lyonia ovalifolia*, TU FU LING *Smilax glabra* (rhizome: content = 0.756%^[5508]), WU CI KE YA SHU *Andira inermis* (leaf). **Ref:** 6, 416, 568, 1798, 1799, 1800, 1801, 1802, 1803, 3066, 5208, 5508.

**1929 Astin A**

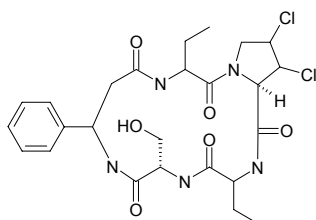
C₂₅H₃₃Cl₂N₅O₇ (586.48). **Source:** ZI WAN *Aster tataricus*. **Ref:** 660.

**1930 Astin B**

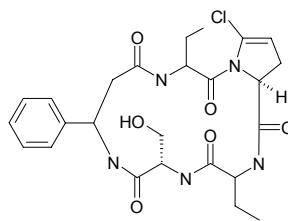
C₂₅H₃₃Cl₂N₅O₇ (586.48). **Source:** ZI WAN *Aster tataricus*. **Ref:** 660.

**1931 Astin C**

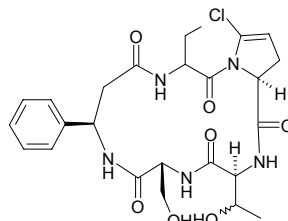
C₂₅H₃₃Cl₂N₅O₆ (570.48). **Source:** ZI WAN *Aster tataricus*. **Ref:** 660.

**1932 Astin D**

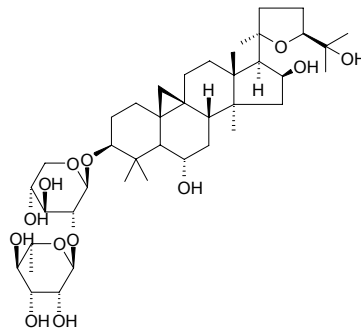
C₂₅H₃₂ClN₅O₆ (534.02). **Source:** ZI WAN *Aster tataricus*. **Ref:** 660.

**1933 Astin E**

C₂₅H₃₂ClN₅O₇ (550.02). **Source:** ZI WAN *Aster tataricus*. **Ref:** 660.

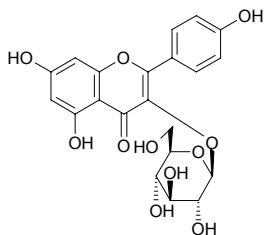
**1934 Astrachryoside**

C₄₁H₆₈O₁₃ (768.99). **Source:** JIN YI HUANG QI *Astragalus chrysopterus* (root). **Ref:** 660.

**1935 Astragalin**

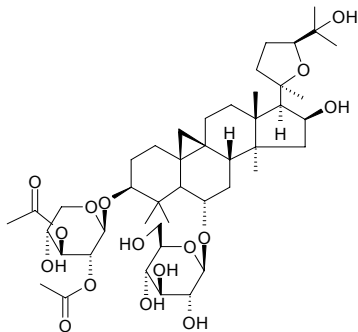
Kaempferol-3-*O*- β -D-glucopyranoside [480-10-4] C₂₁H₂₀O₁₁ (448.39). Yellow acicular crystals (methanol), mp 163~165°C; mp 178°C. **Pharm:** Antispasmodic (rat small intestine and bladder *in vitro*); choleric (rat); antitussive (dispels phlegm); diuretic (dog, iv); antihypertensive (rat); antioxidant (DPPH scavenger, 250 μ mol/L, InRt = 5.7%; control Vitamin E, IC₅₀ = 8.3 μ mol/L)^[4722]; antioxidant (DPPH scavenger, IC₅₀ > 100 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ > 50 μ g/mL, Gallic acid, IC₅₀ = 3.0 μ g/mL)^[5239]. **Source:** BAI GUO YE *Ginkgo biloba*, CHOU LENG SHAN *Abies nephrolepis*, CU LIU GUO *Hippophae rhamnoides*, HUAI *Sophora japonica* (pericarp)^[30801], HUANG HUA HAO *Artemisia annua*, JIN ZHONG HUA *Forsythia viridissima*, LAO YA SHI *Diospyros rhombifolia* (leaf), LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], LUO BU MA *Apocynum venetum* (dried leaf: content scope of 6 origins = 0.0132%~0.0334%, mean content = 0.0208%)^[5529], LUO DI SHENG GEN *Bryophyllum pinnatum*, LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, MAO HUA SHI NAN *Photinia lactiflora*, MEI LI YE HUI MAO DOU *Tephrosia calophylla* (whole herb), NAN FANG TU SI ZI *Cuscuta australis*, PU TONG LU TI CAO *Pyrola decorata*, SANG YE *Morus alba* (leaf: content = 0.011%^[5501]), SHAN TENG

Anodendron affine, SHI DI *Diospyros kaki*, TAI WAN HUANG BO
Phellodendron amurense var. *wilsonii* (leaf: yield = 0.059%_{dw})^[4722], TU SI ZI
Cuscuta chinensis, XI BO LI YA LENG SHAN *Abies sibirica*, XI SHU
Camptotheca acuminata, YE YA CHUN *Euscaphis japonica*, YI ZHU QIAN
 MA *Urtica dioica*, YUN SHI *Caesalpinia decapetala* (leaf), ZHANG GUO
 GAN CAO *Glycyrrhiza inflata*, ZHAO SHAN BAI *Rhododendron*
micranthum (leaf: content scope from Feb. to Nov. 0.09%–0.47%, mean
 content = 0.22%)^[5508], ZHU ZONG CAO *Adiantum capillus-veneris*, ZI YUN
 YING *Astragalus sinicus*, occurs in many plants. Ref: 2, 231, 468, 658, 660,
 661, 3080, 3507, 4097, 4312, 4456, 4464, 4544, 5239, 5501, 5508, 5529.



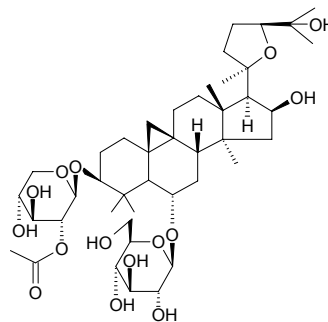
1936 Astragaloside I

[84680-75-1] C₄₅H₇₂O₁₆ (869.07). **Pharm:** Immunoenhancer (*in vitro*, stimulates proliferation of mouse T lymphocytes, 10 μmol/L, *p* < 0.05; stimulates proliferation of mouse B lymphocytes, 1.0 μmol/L, *p* < 0.05)^[3084]. **Source:** HUANG QI *Astragalus membranaceus*, MENG GU HUANG QI *Astragalus mongholicus*. Ref: 2, 660, 3084.



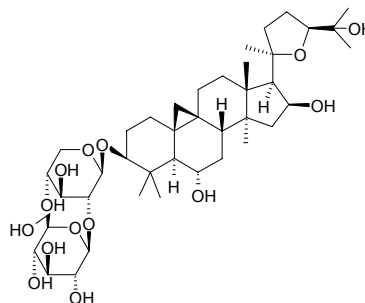
1937 Astragaloside II

Astrasieversianin VIII [84676-89-1] C₄₃H₇₀O₁₅ (827.03). Colorless crystals (methanol), mp 249–250°C, [α]_D³¹ = +30.4° (*c* = 0.46, methanol). **Pharm:** Improves erythrocyte's ability to change shape; antioxidant (inhibits lipid peroxidation strongly, rat, ip, induced by adriamycin); antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ > 66.6 μg/mL, control Melarsoprol, IC₅₀ = 0.0032 μg/mL; *Trypanosoma cruzi*, IC₅₀ > 30 μg/mL, Benznidazole, IC₅₀ = 0.50 μg/mL)^[5285]; antileishmanial (*Leishmania donovani*, IC₅₀ = 21.3 μg/mL, control Miltefosine, IC₅₀ = 0.087 μg/mL)^[5285]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 5 μg/mL, Chloroquine, IC₅₀ = 0.086 μg/mL)^[5285]; cytotoxic (L6 cells, IC₅₀ > 90 μg/mL, control Podophyllotoxin, IC₅₀ = 0.008 μg/mL)^[5285]. **Source:** HUANG QI *Astragalus membranaceus*, MENG GU HUANG QI *Astragalus mongholicus*, YOU YE HUANG QI *Astragalus oleifolius* (lower stem part). Ref: 2, 660, 965, 1030, 1080, 1109, 1112, 1117, 5285.



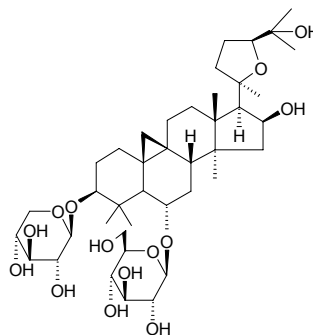
1938 Astragaloside III

[84687-42-3] C₄₁H₆₈O₁₄ (784.99). Colorless rhombic crystals (methanol), mp 245–247°C, [α]_D¹⁸ = +21.4° (*c* = 0.83, methanol). **Pharm:** Antioxidant (inhibits lipid peroxidation strongly, rat, ip, induced by adriamycin); oxygen free radical scavenger; LD₅₀ (rat, ip) = 80 μg/mL. **Source:** HUANG QI *Astragalus membranaceus*, MENG GU HUANG QI *Astragalus mongholicus*. Ref: 658, 966, 1079.



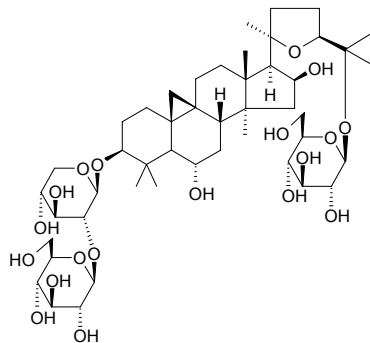
1939 Astragaloside IV

[84687-43-4] C₄₁H₆₈O₁₄ (784.99). **Pharm:** Antioxidant (superoxide anion scavenger, LC₅₀ = 50 μg/mL, inhibits lipid peroxidation caused by adriacin ip in rat); inhibits endotoxin, promotes dissolution of fibrin (prevention and cure of endotoxin shock, coronary heart disease, etc.); improves metamorphic ability of hatched red blood cells; antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ > 90 μg/mL, control Melarsoprol, IC₅₀ = 0.0032 μg/mL; *Trypanosoma cruzi*, IC₅₀ > 30 μg/mL, Benznidazole, IC₅₀ = 0.50 μg/mL)^[5285]; antileishmanial (*Leishmania donovani*, IC₅₀ > 30 μg/mL, control Miltefosine, IC₅₀ = 0.087 μg/mL)^[5285]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 5 μg/mL, Chloroquine, IC₅₀ = 0.086 μg/mL)^[5285]; cytotoxic (L6 cells, IC₅₀ > 90 μg/mL, control Podophyllotoxin, IC₅₀ = 0.008 μg/mL)^[5285]. **Source:** HUANG QI *Astragalus membranaceus* (dried root: content scope = 0.056%–0.223%^[5501]; mean content of 4 origins = 0.111%^[5508]), MENG GU HUANG QI *Astragalus mongholicus* (dried root: mean content of 5 origins = 0.141%^[5508]), YOU YE HUANG QI *Astragalus oleifolius* (lower stem part). Ref: 2, 660, 1079, 1080, 1585, 1586, 5285, 5501, 5508.

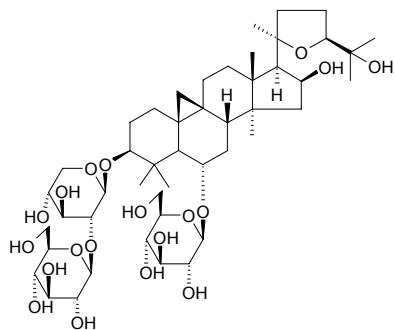


1940 Astragaloside V

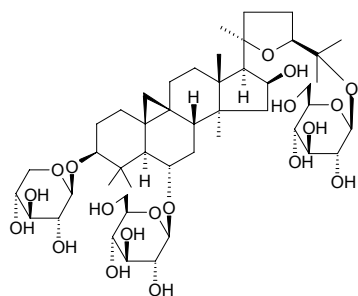
[84687-44-5] $C_{47}H_{78}O_{19}$ (947.12). Colorless thin crystals (methanol), mp 202–204°C, $[\alpha]_D^{14} = +7.2^\circ$ ($c = 1.0$, methanol). **Pharm:** Antioxidant (lipid peroxidation inhibitor, rat, ip, induced by adriamycin). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 966.

**1941 Astragaloside VI**

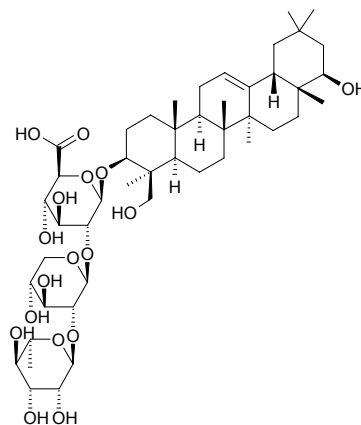
[84687-45-6] $C_{47}H_{78}O_{19}$ (947.12). Colorless, thin crystals (methanol), mp 290–291°C, $[\alpha]_D^{14} = +17.3^\circ$ ($c = 1.0$, methanol). **Pharm:** Antioxidant (inhibits lipid peroxidation, rat, ip, induced by adriamycin); antioxidant (superoxide anion scavenger). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 966.

**1942 Astragaloside VII**

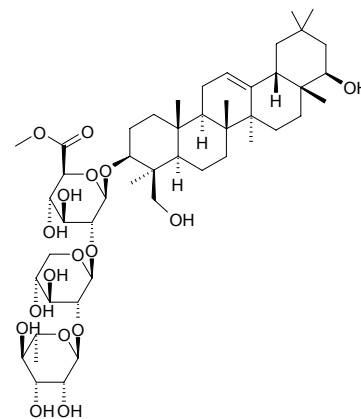
[84687-46-7] $C_{47}H_{78}O_{19}$ (947.12). Colorless rhombic crystals (methanol), mp 292–293°C, $[\alpha]_D^{18} = +10.3^\circ$ ($c = 0.6$, methanol). **Pharm:** Antioxidant (inhibits lipid peroxidation, rat, ip, induced by adriamycin). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 966.

**1943 Astragaloside VIII**

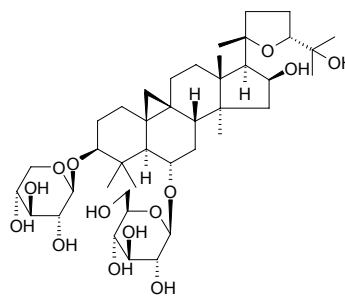
[86361-64-0] $C_{47}H_{76}O_{17}$ (913.11). Colorless, thin crystals (methanol), mp 223–224°C, $[\alpha]_D^{18} = -12.1^\circ$ ($c = 1.0$, methanol). **Pharm:** Antioxidant (inhibits lipid peroxidation, rat, ip, induced by adriamycin). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 966, 967.

**1944 Astragaloside VIII methylester**

$C_{48}H_{78}O_{17}$ (927.15). **Source:** BIAN JING HUANG QI *Astragalus complanatus*. **Ref:** 660.

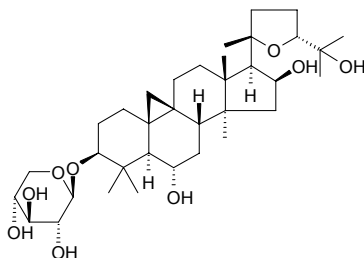
**1945 Astramembrannin I**

$C_{41}H_{68}O_{14}$ (784.99). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 660.

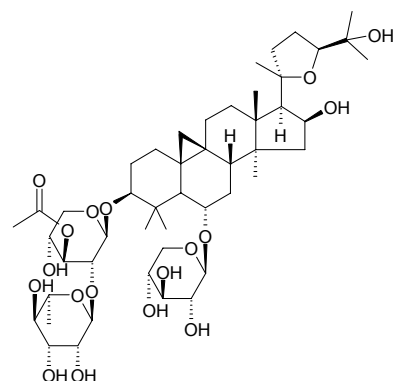


1946 Astramembrannin II

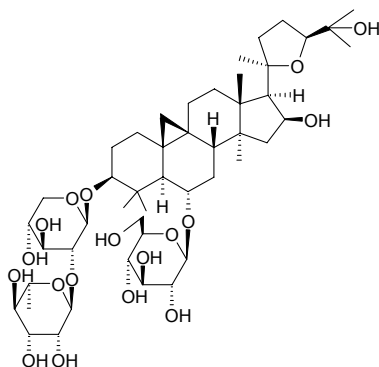
$C_{35}H_{58}O_9$ (622.85). Source: HUANG QI *Astragalus membranaceus*. Ref: 660.

**1947 Astrasieversianin IX**

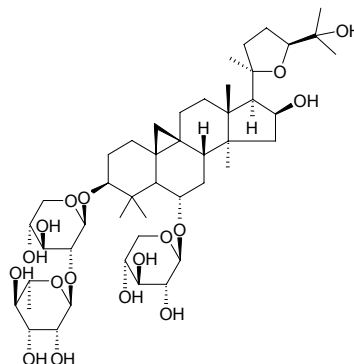
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -(3'-*O*-november acetyl)-*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxy-3 β ,6 α ,16 β ,25-tetrahydroxycycloartane $C_{48}H_{78}O_{18}$ (943.15). Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

**1948 Astrasieversianin XIV**

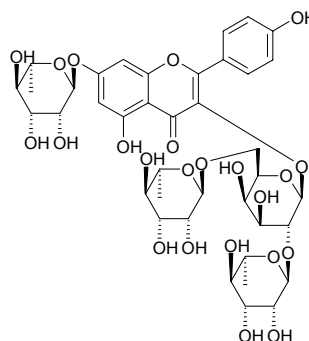
$C_{47}H_{78}O_{18}$ (931.13). Pharm: Antihypertensive. Source: MIAN MAO HUANG QI *Astragalus sieversianus*. Ref: 658.

**1949 Astrasieversianin XV**

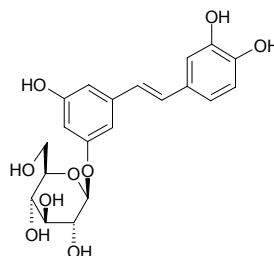
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxy-3 β ,6 α ,16 β ,25-tetrahydroxycycloartane $C_{46}H_{76}O_{17}$ (901.11). Source: MIAN MAO HUANG QI *Astragalus sieversianus*. Ref: 660, 4145.

**1950 Astrasikokioside I**

Kaempferol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- β -*D*-galactopyranosyl-7-*O*- α -*L*-rhamnopyranoside $C_{39}H_{50}O_{23}$ (886.82). Yellow powder, $[\alpha]_D = -137.2^\circ$ ($c = 0.57$, pyridine). Source: SI GUO HUANG QI *Astragalus shikokianus* (aerial parts). Ref: 3922.

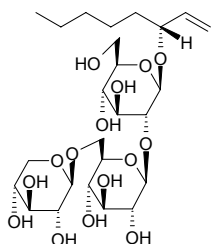
**1951 Astringin**

Piceatannol 3-*O*- β -*D*-glucopyranoside [29884-49-9] $C_{20}H_{22}O_9$ (406.39). Pharm: Antifungal (plant). Source: *Picea* sp., *Eucalyptus* sp., YU DA HUANG *Rheum* sp.^[4064]. Ref: 658, 2834, 4064.

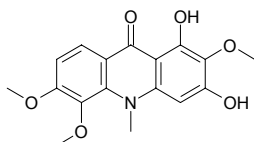


1952 Asystoside

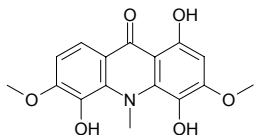
(3*R*)-1-Octen-3-ol-3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside C₂₅H₄₄O₁₅ (584.62). Amorphous powder, $[\alpha]_D^{27} = +7.7^\circ$ ($c = 1.56$, MeOH). Source: CHA RU SHI WAN CUO *Asystasia intrusa*. Ref: 2589.

**1953 Atalafoline**

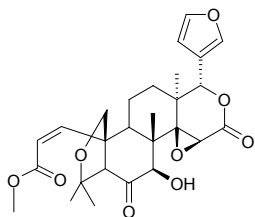
C₁₇H₁₇NO₆ (331.33). Yellow needles, mp 186–188°C. Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*]. Ref: 63.

**1954 Atalafoline B**

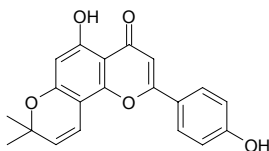
N-Methyl-1,4,5-trihydroxy-3,6-dimethoxyacridine-9-one [114216-93-2] C₁₆H₁₅NO₆ (317.30). Yellow columnar crystals, mp 192–194°C. Source: DONG FENG JU YE *Atalantia buxifolia* [Syn. *Severinia buxifolia*]. Ref: 91.

**1955 Atalantin**

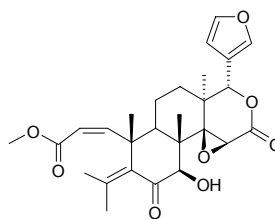
C₂₇H₃₂O₉ (500.55). Source: DAN YE DONG FENG JU *Atalantia monophylla*. Ref: 1521.

**1956 Atalantoflavone**

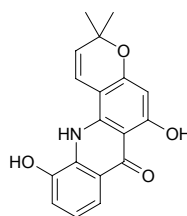
Limonianin C₂₀H₁₆O₅ (336.35). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00014%semi-dw), NING MENG *Citrus limon* (root cortex), ZONG ZHUANG DONG FENG JU YE *Atalantia racemosa*, *Erythrina vogelii*. Ref: 1521,3034, 4421.

**1957 Atalantolide**

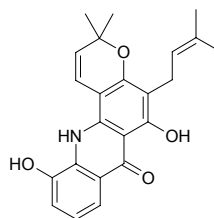
C₂₇H₃₂O₈ (484.55). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**1958 Atalaphyllidine**

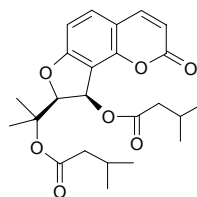
C₁₈H₁₅NO₄ (309.32). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**1959 Atalaphyllinine**

C₂₃H₂₃NO₄ (377.44). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

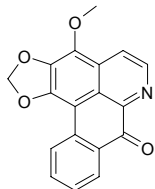
**1960 Athamantin**

[1892-56-4] C₂₄H₃₀O₇ (430.50). Pharm: Antispasmodic. Source: CHI A MI *Ammi visnaga*, LIN BAI ZHI *Angelica sylvestris*, LI BA NEN XIE HAO *Seseli libanotis*, *Peucedanum* sp. Ref: 658.

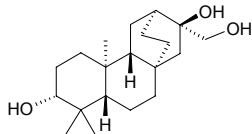


1961 Atherospermidine

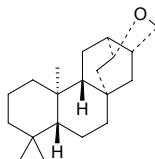
$C_{18}H_{11}NO_4$ (305.29). **Pharm:** Cytotoxic (*in vitro*, HepG2, $IC_{50} = 0.8\mu\text{g/mL}$; Hep2,2,15, $IC_{50} = 2.2\mu\text{g/mL}$)^[3083], cytotoxic (Selective DNA-damaging activity, yeast assay: RS321NYCp50(gal), $IC_{50} = 4.6\mu\text{g/mL}$; RS321NpRAD52(gal), $IC_{50} > 100\mu\text{g/mL}$, control Camptothecin, $IC_{50} = 100\mu\text{g/mL}$; RS321NpRAD52(glu), $IC_{50} = 55\mu\text{g/mL}$, Camptothecin, $IC_{50} = 0.6\mu\text{g/mL}$)^[5457]. **Source:** DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem)^[5457], SHE XIANG MANG ZI *Atherosperma moschatum*^[1521], YOU GOU YING ZHAO *Artabotrys uncinatus* (root,stem)^[3083]. **Ref:** 1521, 3083, 5457.

**1962 ent-Atisane-3 β ,16 α ,17-triol**

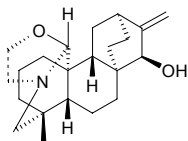
$C_{20}H_{34}O_3$ (322.49). White powder. **Source:** DA GUO DA JI *Euphorbia wallichii* (root). **Ref:** 4585.

**1963 ent-(16S)-Atisan-13,17-oxide**

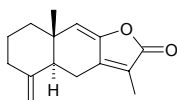
[84687-87-6] $C_{20}H_{32}O$ (288.48). mp 124~125°C, $[\alpha]_D^{20} = -71.0^\circ$ ($c = 1.1$, $CHCl_3$). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 2182.

**1964 Atisine**

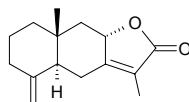
[466-43-3] $C_{22}H_{33}NO_2$ (343.51). **Pharm:** Antipyretic. **Source:** HUANG WU TOU *Aconitum anthora*, YI YE WU TOU *Aconitum heterophyllum* WU TOU SHU *Aconitum* sp. (the compound was isolated from the plant by S.W.Pelletier, et al. in 1954)^[5505]. **Ref:** 658, 5505.

**1965 Atractylenolide I**

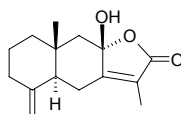
[73096-13-3] $C_{15}H_{18}O_2$ (230.31). **Pharm:** Antineoplastic (mus lymphoma L₅₁₈₇Y cells, $ID_{50} = 80\mu\text{g/mL}$); anti-inflammatory. **Source:** BAI ZHU *Atractyloides macrocephala* [Syn. *Atractylis macrocephala*] (dried rhizome: content scope = 0.030%~0.078%^[5501], mean content of 17 origins = 0.0324%^[5508]), GUAN CANG ZHU *Atractyloides japonica*. **Ref:** 2, 658, 5501, 5508.

**1966 Atractylenolide II**

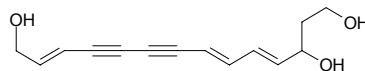
[73096-14-4] $C_{15}H_{20}O_2$ (232.33). **Source:** BEI CANG ZHU *Atractyloides chinensis* (dried rhizome: mean content of 7 origins = 0.204%^[5511]), CANG ZHU *Atractyloides lancea* (dried rhizome: content = 0.134%^[5511]), CHAO XIAN CANG ZHU *Atractyloides koreana* (dried rhizome: content = 0.202%^[5511]), DANG SHEN *Codonopsis pilosula*, GUAN CANG ZHU *Atractyloides japonica* (dried rhizome: mean content of 2 origins = 0.175%^[5511]). **Ref:** 2, 632, 5511.

**1967 Atractylenolide III**

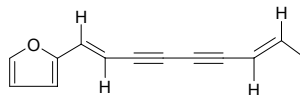
Codonolactone [73030-71-4] $C_{15}H_{20}O_3$ (248.32). **Source:** BAI ZHU *Atractyloides macrocephala* [Syn. *Atractylis macrocephala*] (dried rhizome: mean content of 17 origins = 0.0339%^[5508]), CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0060%^[5508]), QIU HUA DANG SHEN *Codonopsis subglobosa*. **Ref:** 2, 632, 660, 5508.

**1968 Atractylenetriol**

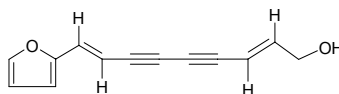
$C_{14}H_{16}O_3$ (232.28). **Source:** BAI ZHU *Atractyloides macrocephala* [Syn. *Atractylis macrocephala*]. **Ref:** 2.

**1969 Atractylodin**

Atractylin [55290-63-6] $C_{13}H_{10}O$ (182.23). mp 52°C. **Source:** BEI CANG ZHU *Atractyloides chinensis* (dried rhizome: mean content of 7 origins = 0.315%^[5511]), CANG ZHU *Atractyloides lancea* (dried rhizome: content = 0.194%^[5511]), CHAO XIAN CANG ZHU *Atractyloides koreana* (dried rhizome: content = 0.248%^[5511]), GUAN CANG ZHU *Atractyloides japonica* (dried rhizome: mean content of 2 origins = 0.285%^[5511]). **Ref:** 6, 660, 5511.

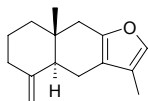
**1970 Atractylodinol**

[61842-89-5] $C_{13}H_{12}O_2$ (200.24). **Source:** BEI CANG ZHU *Atractyloides chinensis*. **Ref:** 2, 660.

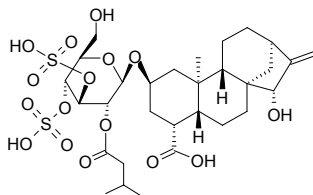


1971 Atractylone

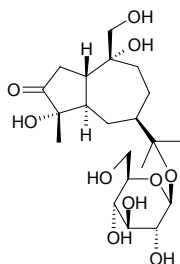
Atractylone [6989-21-5] $C_{15}H_{20}O$ (216.33). mp 38°C, $[\alpha]_D = +40.0^\circ$ ($c = 10.0$). **Pharm:** Antineoplastic; anti-inflammatory (mus edema on ears, caused by TPA, $ID_{50} = 0.9\text{mg/mL}$); cytotoxic; antihepatotoxin (mus and rat, liver toxicosis caused by CCl_4 and galactosamine); antioxidant (lipid peroxidation inhibitor, caused by CCl_4). **Source:** BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*] (dried rhizome: mean content from 3 methods = 0.71%^[5508]), BEI CANG ZHU *Atractylodes chinensis*, CANG ZHU *Atractylodes lancea*. **Ref:** 2, 660, 957, 1160, 1203, 5501, 5508.

**1972 Atractylolide**

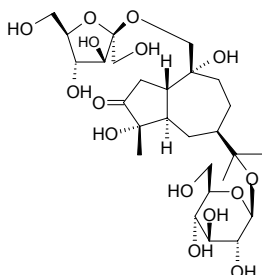
[17754-44-8] $C_{30}H_{46}O_{16}S_2$ (726.82). mp 157~158°C (dec), $[\alpha]_D = -53^\circ$ ($c = 1.1$, water). **Pharm:** Hypoglycemic (dog, rat, mus and rbt); increases amount of lactic acid (zoic blood); reduces consumption of oxygen (zoic blood); LD_{50} (rat, sc) = 431mg/kg. **Source:** OU CANG ZHU *Atractylodes gummifera*. **Ref:** 658, 661.

**1973 Atractylolide A**

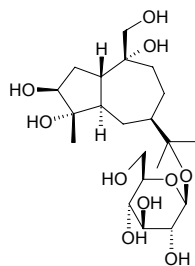
$C_{21}H_{36}O_{10}$ (448.52). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

**1974 Atractylolide A 14-O-β-D-fructofuranoside**

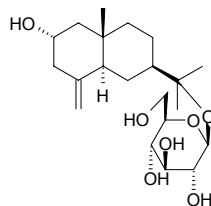
$C_{27}H_{46}O_{15}$ (610.66). Amorphous powder, $[\alpha]_D^{22} = +2^\circ$ ($c = 1.3$, MeOH). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

**1975 Atractylolide B**

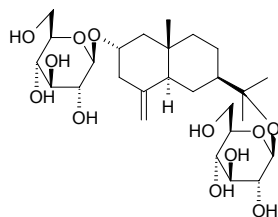
$C_{21}H_{38}O_{10}$ (450.53). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

**1976 Atractylolide C**

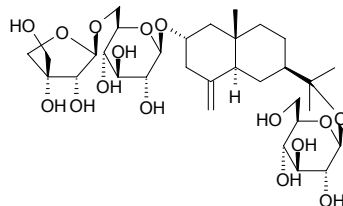
$C_{21}H_{36}O_7$ (400.52). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

**1977 Atractylolide D**

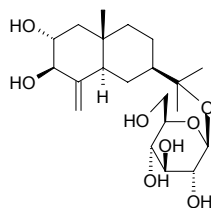
$C_{27}H_{46}O_{12}$ (562.66). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

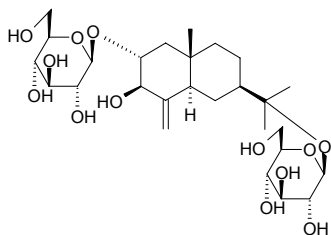
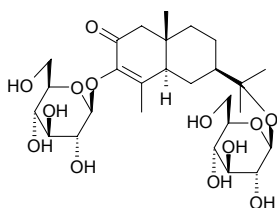
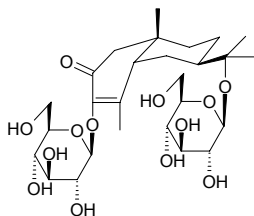
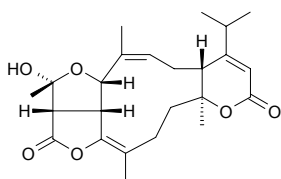
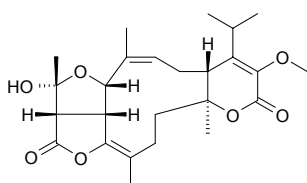
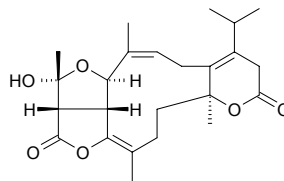
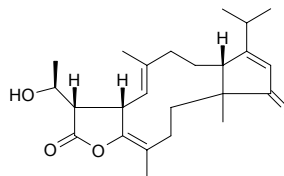
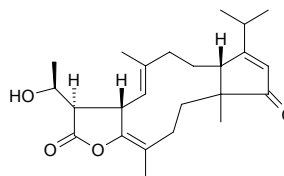
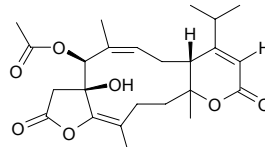
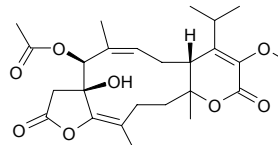
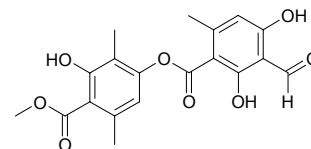
**1978 Atractylolide E**

$C_{32}H_{54}O_{16}$ (694.78). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.

**1979 Atractylolide G**

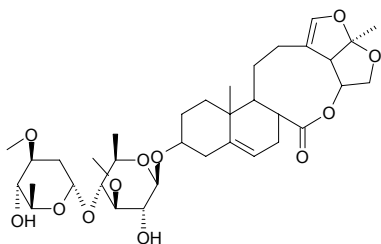
$C_{21}H_{36}O_8$ (416.52). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 4348.



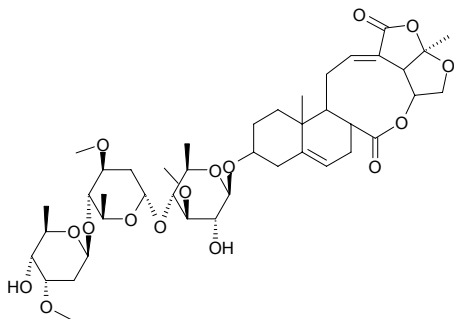
1980 (2R,3R,5R,7R,10S)-Atractyloside G 2-O-β-D-glucopyranosideC₂₇H₄₆O₁₃ (578.66). Amorphous powder, $[\alpha]_D^{22} = -20^\circ$ ($c = 1.5$, MeOH).Source: CANG ZHU *Atractyloides lancea*. Ref: 4348.**1981 Atractyloside I**C₂₇H₄₄O₁₃ (576.64). Source: CANG ZHU *Atractyloides lancea*. Ref: 4348.**1982 cis-Atractyloside I**C₂₇H₄₄O₁₃ (576.64). Amorphous powder, $[\alpha]_D^{22} = -23^\circ$ ($c = 0.4$, MeOH).Source: CANG ZHU *Atractyloides lancea*. Ref: 4348.**1983 Atranone A**C₂₄H₃₂O₆ (416.52). Source: fungus *Stachybotrys chartarum*, fungus*Stachybotrys atra*. Ref: 5104.**1984 Atranone B**C₂₅H₃₄O₇ (446.55). Source: fungus *Stachybotrys chartarum*. Ref: 5104.**1985 Atranone C**C₂₄H₃₂O₆ (416.52). Source: fungus *Stachybotrys chartarum*. Ref: 5104.**1986 Atranone D**C₂₄H₃₄O₄ (386.54). Clear film, $[\alpha]_D^{20} = +21^\circ$ ($c = 0.70$, CHCl₃). Source:fungus *Stachybotrys chartarum*. Ref: 5104.**1987 Atranone E**C₂₄H₃₄O₄ (386.54). Clear film, $[\alpha]_D^{20} = -16^\circ$ ($c = 0.75$, CHCl₃). Source:fungus *Stachybotrys chartarum*. Ref: 5104.**1988 Atranone F**C₂₄H₃₂O₇ (432.52). Pale yellow film, $[\alpha]_D^{20} = +24^\circ$ ($c = 0.16$, CHCl₃). Source:fungus *Stachybotrys chartarum*. Ref: 5104.**1989 Atranone G**C₂₅H₃₄O₈ (462.54). Pale yellow film, $[\alpha]_D^{20} = +28^\circ$ ($c = 0.2$, CHCl₃). Source:fungus *Stachybotrys chartarum*. Ref: 5104.**1990 Atranorin**[479-20-9] C₁₉H₁₈O₈ (374.35). mp 196–197°C. Pharm: Antibacterial; fishtoxin. Source: QI SHI HUA *Parmelia saxatilis* var. *omphalodes*, SHI RUI*Cladonia rangiferina*, SHI HUA *Parmelia saxatilis*, YE TAI *Trocholejeunea**sandvicensis*. Ref: 6, 658, 3909.

1991 Atratoglaucoside A

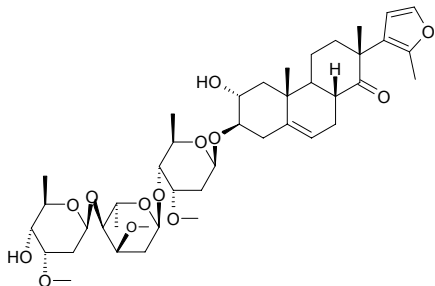
Glaucogenin C 3-*O*- α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranoside
 $C_{35}H_{52}O_{12}$ (664.80). Colorless oil, $[\alpha]_D^{25} = -21^\circ$ ($c = 0.16$, $CHCl_3$). Source:
 BAI WEI *Cynanchum atratum* (root). Ref: 3054.

**1992 Atratoglaucoside B**

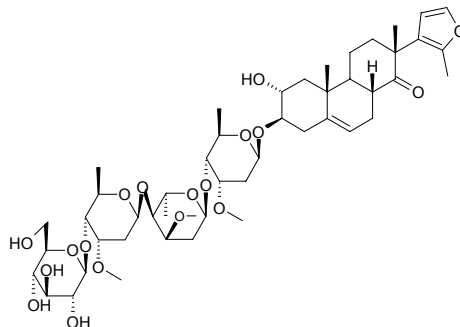
7-Desoxyneocynapanogenin A 3-*O*- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranoside $C_{42}H_{62}O_{16}$ (822.95). Colorless oil,
 $[\alpha]_D^{25} = -60^\circ$ ($c = 1.25$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, T24, CaSki, SiHa,
 HT3, PLC/PRF/5, and 212 cells, $ED_{50} > 4\mu g/mL$, no significant activity).
Source: BAI WEI *Cynanchum atratum* (root). Ref: 3054.

**1993 Atratoside A**

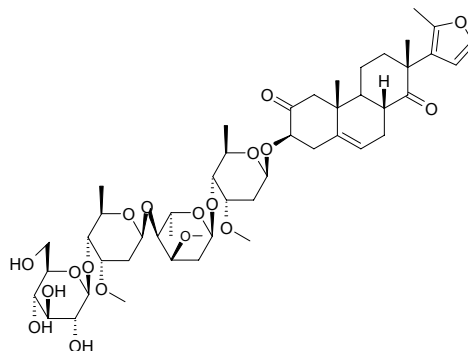
[118002-91-8] $C_{42}H_{64}O_{13}$ (776.97). Pharm: Antineoplastic (mus, 20mg/kg orl,
 U14 cancer, InRt = 53.0%; HepA cancer, InRt = 58.5%). Source: BAI WEI
Cynanchum atratum (root). Ref: 660, 5501.

**1994 Atratoside B**

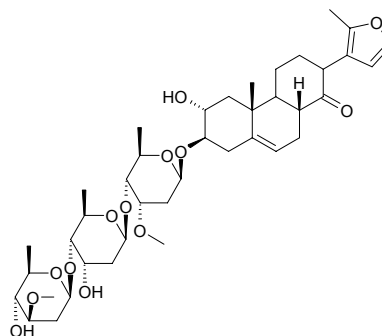
$C_{48}H_{74}O_{18}$ (939.11). Source: BAI WEI *Cynanchum atratum* (root). Ref: 660.

**1995 Atratoside C**

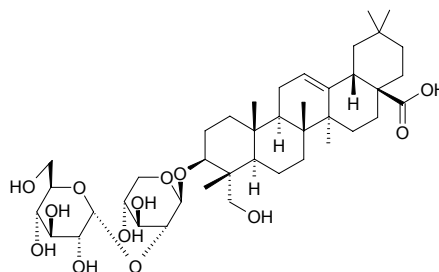
$C_{48}H_{72}O_{18}$ (937.10). Source: BAI WEI *Cynanchum atratum* (root). Ref: 660.

**1996 Atratoside D**

$C_{40}H_{60}O_{13}$ (748.92). Source: BAI WEI *Cynanchum atratum* (root). Ref: 660.

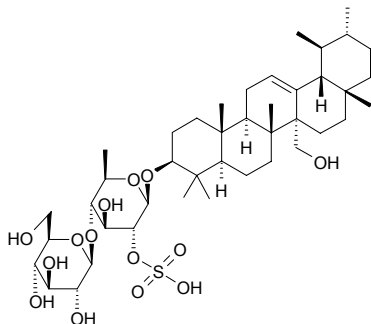
**1997 Atriplicosaponin A**

3-*O*-[α -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl]-hederagenin $C_{41}H_{66}O_{13}$
 (766.98). Crystals, mp 215–217°C, $[\alpha]_D^{25} = +40^\circ$ ($c = 0.02$, MeOH). Source:
Zygophyllum atriplicoides (whole herb). Ref: 4504.

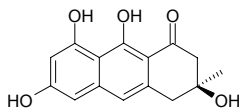


1998 Atriplicosaponin B

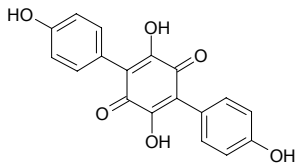
27 α -Hydroxyurs-12-ene-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 4)(2-*O*-sulpho)- β -*D*-quinoxyranoside C₄₂H₇₀O₁₄S (831.08). Crystals, mp 215–217°C, [α]_D²⁵ = +10.26° (*c* = 0.02, MeOH). Source: *Zygophyllum atriplicoides* (whole herb). Ref: 4504.

**1999 Atrochryson**

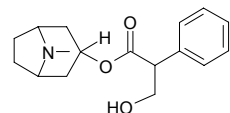
C₁₅H₁₄O₅ (274.28). Source: *Cortinarius* spp. Ref: 3799.

**2000 Atromentin**

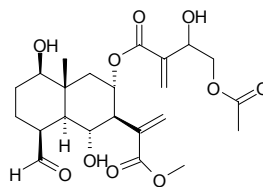
C₁₈H₁₂O₆ (324.29). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**2001 Atropine**

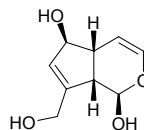
dl-Hyoscyamine [51-55-8] C₁₇H₂₃NO₃ (289.38). Colorless columnar crystals, mp 118–119°C, easily soluble in ethanol, chloroform, slightly soluble in ether, hot water.^[5507] Pharm: Anticholinergic; antispasmodic (smooth muscle); glandular secretion inhibitor; mydriatic; releases inhibition of vagus nerve to the heart; respiratory stimulant; LD (hmn) = 100mg. Source: DIAN QIE *Atropa belladonna*, GOU QI ZI *Lycium chinense*, LANG DANG YE *Hyoscyamus niger* (leaf: content = 0.010%^[5508]), LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: mean content of 5 origins = 0.0596%^[5508]), LOU DOU PAO NANG CAO *Physochlaina infundibularis*, MAN TUO LUO YE *Datura metel*, MAO MAN TUO LUO HUA *Datura innoxia* (flower: content = 0.095%^[5508]), MAO MAN TUO LUO ZI *Datura innoxia*, NING XIA GOU QI ZI *Lycium barbarum*, OU MAN TUO LUO GEN *Datura stramonium*, SAI LANG DANG *Anisodus luridus*, TIAN PENG ZI *Scopolia sinensis*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*], YANG JIN HUA *Datura metel* (flower: content = 0.088%^[5508]). Ref: 2, 658, 660, 5501, 5507, 5508.

**2002 Atticin**

C₂₃H₃₂O₁₀ (468.51). Oil, [α]_D²⁰ = +21.7° (*c* = 0.18, CHCl₃). Pharm: Antifungal (*Aspergillus niger*, MIC = 1 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 2 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 2 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 2 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrochloron*, MIC = 2 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 2 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 2 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 2 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 1 μ g/mL, Miconazole, MIC = 0.5 μ g/mL)^[5115]. Source: *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

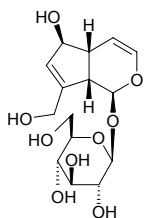
**2003 Aucubigenin**

[64274-28-8] C₉H₁₂O₄ (184.19). Source: TIAN JIAO BAN *Aucuba chinensis* ssp. *omeiensis*. Ref: 6.

**2004 Aucubin**

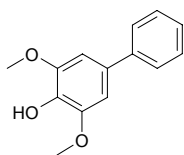
[479-98-1] C₁₅H₂₂O₉ (346.34). Pharm: Laxative (mus); uricosuric; anti-inflammatory (modulator of cytokine network: prevents TNF- α and IL-6 production in RBL-2H3 stimulated mast cells, IC₅₀ = 101 ng/mL and 190 ng/mL, respectively, through a mechanism involving the blockade of NF- κ B activation)^[4416]; antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ = 51.1 μ g/mL, control Melarsoprol, IC₅₀ = 0.0033 μ g/mL; *Trypanosoma cruzi*, IC₅₀ > 90 μ g/mL, control Benznidazole, IC₅₀ = 0.70 μ g/mL)^[5251]; antileishmanial (*Leishmania donovani*, IC₅₀ = 10.9 μ g/mL, control Miltefosin, IC₅₀ = 0.32 μ g/mL)^[5251]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 50 μ g/mL, control Artemisinin, IC₅₀ = 0.002 μ g/mL)^[5251]; cytotoxic (L6 cells, IC₅₀ > 90 μ g/mL, control Podophyllotoxin, IC₅₀ = 0.0075 μ g/mL)^[5251]. Source: A LA BO PO PO NA *Veronica persica* (aerial parts), CHANG YE CHE QIAN *Plantago lanceolata* (whole herb: mean content = 0.586%^[5508]), CHE QIAN *Plantago asiatica* (whole herb: mean content = 1.26%, aerial parts: content = 0.600%, root: content = 0.776%, dried ripe fruit: content = 0.055%^[5508]), CHI YE CAO *Odontites serotina*, DA CHE QIAN *Plantago major* (aerial parts: content = 0.190%, root: content = 0.738%, dried ripe fruit: content = 0.027%^[5508]), DONG YING SHAN HU MU *Aucuba japonica* (in 1960 the compound was isolated from the plant by S.Fujita et al.)^[5505], DU ZHONG *Eucommia ulmoides*, DU ZHONG YE *Eucommia ulmoides* (leaf: mean content of 3 batch samples = 1.892%^[5508]), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], LIN

PIAN XUAN SHEN *Scrophularia lepidota* (root), LONG TU ZHU *Clerodendrum thomsonae*, MAO RUI HUA *Verbascum thapsus*, PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.988%, aerial parts: content = 0.118%, root: content = 0.218%, dried ripe fruit: content = 0.086%^[5508]), TIAN JIAO BAN *Aucuba chinensis* ssp. *omeiensis*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora*, XIAO MI CAO *Euphrasia officinalis*, XIAO PO PO NA *Veronica serpyllifolia*, ZHI LI PO PO NA *Veronica arvensis*, ZI MU *Catalpa ovata* (stem bark). Ref: 2, 658, 660, 4211, 4416, 5251, 5501, 5505, 5508.



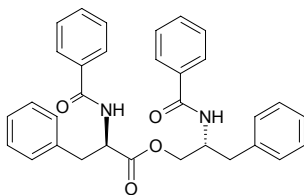
2005 Aucuparin

$C_{14}H_{14}O_3$ (230.27). **Pharm:** Antifungal; cytotoxic (P_{388} $ED_{50} = 3.21\mu\text{g/mL}$, control Mithramycin $ED_{50} = 0.06\mu\text{g/mL}$, HT29 $ED_{50} = 5.39\mu\text{g/mL}$, Mithramycin $ED_{50} = 0.08\mu\text{g/mL}$)^[4094]. **Source:** OU ZHOU HUA QIU *Sorbus aucuparia*, MEI LI HUA QIU *Sorbus decora*, TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 658, 4094.



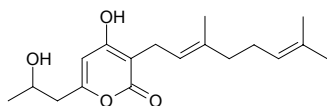
2006 (-)-Auranamide

$C_{32}H_{30}N_2O_4$ (506.61). **Pharm:** Cytotoxic (hmn cancer lines NUGC-3, $IC_{50} = 17.12\mu\text{g/mL}$, hmn cancer lines HONE-1, $IC_{50} = 8.68\mu\text{g/mL}$, hmn cancer lines A549, $EC_{50} < 2.5\mu\text{g/mL}$, hmn cancer lines MCF7, $EC_{50} < 2.5\mu\text{g/mL}$). **Source:** NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.



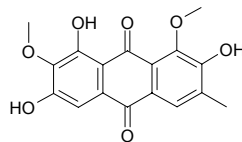
2007 Aurantiacone

3-Geranyl-4-hydroxy-6-(2-hydroxypropyl)-2-pyrone $C_{18}H_{26}O_4$ (306.41). **Source:** JU SE GOU SUAN JIANG *Mimulus aurantiacus*. Ref: 1988.



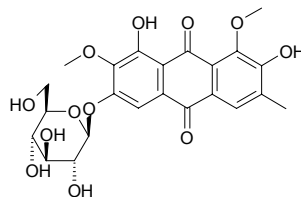
2008 Aurantioobtusin

[67979-25-3] $C_{17}H_{14}O_7$ (330.30). **Source:** JUE MING ZI *Cassia tora*. Ref: 2.



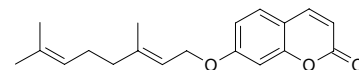
2009 Aurantioobtusin β -D-glucoside

$C_{23}H_{24}O_{12}$ (492.44). **Pharm:** Platelet aggregation inhibitor (rat). **Source:** DUN YE JUE MING *Cassia obtusifolia*. Ref: 658.



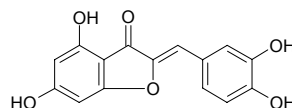
2010 Auraptene

$C_{19}H_{22}O_3$ (298.39). mp 68°C. **Pharm:** Platelet aggregation inhibitor (high activity). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex)^[3075], GOU JU HE *Poncirus trifoliata*, QING JIAO *Zanthoxylum schinifolium*. Ref: 6, 2176, 3075.



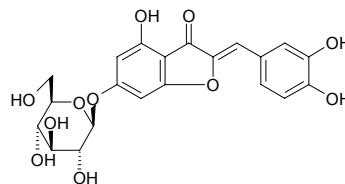
2011 Aureusidin

[480-70-6] $C_{15}H_{10}O_6$ (286.24). mp 270°C (decomposing under 295°C). **Pharm:** Iodinate thyronine deiodinase inhibitor (rat, membrane of microsome in liver cells). **Source:** NING MENG PI *Citrus limon*. Ref: 6, 658, 660.



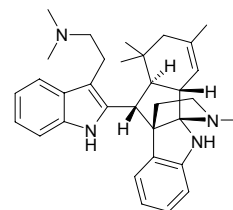
2012 Aureusidin-6-glucoside

$C_{21}H_{20}O_{11}$ (448.39). mp 264.5~265.5°C. **Source:** NING MENG PI *Citrus limon*. Ref: 6, 660.



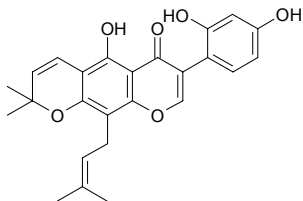
2013 Auricularine

[73706-32-8] $C_{33}H_{42}N_4$ (494.73). **Pharm:** Antibacterial; prevents enteritis; treatment of abdominalgia, cholera in early stage, colitis and dysentery. **Source:** ER CAO *Hedyotis auricularia*. Ref: 658.

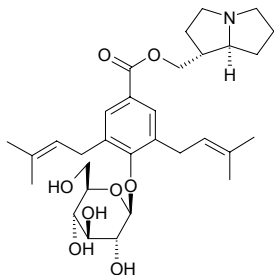


2014 Auriculatin

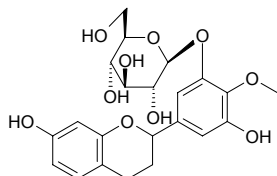
$C_{25}H_{24}O_6$ (420.47). Source: ER XING JI XUE TENG *Milletia auriculata*, *Erythrina vogelii*. Ref: 1521, 4421.

**2015 Auriculine**

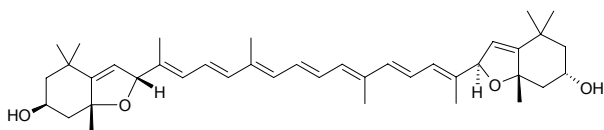
[22595-00-2] $C_{31}H_{45}NO_8$ (559.71). Pharm: Hepatotoxin. Source: LUO XI YANG ER SUAN *Liparis loeselii*, ER XING YANG ER LAN *Liparis auriculata*. Ref: 658.

**2016 Auriculoside**

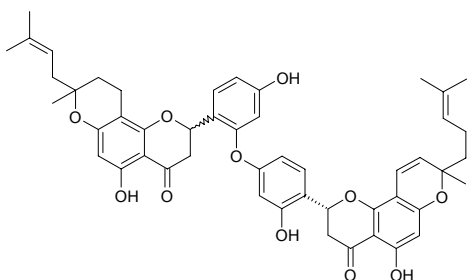
[75871-96-4] $C_{22}H_{26}O_{10}$ (450.45). Pharm: Anxiolytic; CNS depressant. Source: ER XING JIN HE HUAN *Acacia auriculaeformis*. Ref: 658.

**2017 Auroxanthin**

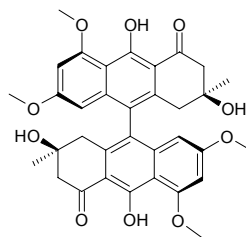
$C_{40}H_{56}O_4$ (600.89). Source: NAN GUA *Cucurbita moschata*, SAN SE JIN *Viola tricolor*, WAN SHOU JU *Tagetes erecta*, XIANG YUAN *Citrus wilsonii*, YE MU XU *Medicago falcata* (flower). Ref: 660.

**2018 Australone B**

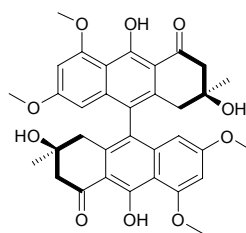
$C_{49}H_{50}O_{11}$ (814.94). Pharm: Platelet aggregation inhibitor (caused by adrenaline). Source: *Morus* sp. Ref: 2513.

**2019 Austrocolorin A₁**

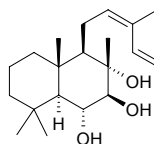
$C_{34}H_{34}O_{10}$ (602.64). Green prisms, mp 146–147°C (toluene-petrol), $[\alpha]_D = +288^\circ$ ($c = 0.05$, $CHCl_3$). Source: *Dermocybe* sp. (fruit body). Ref: 3799.

**2020 Austrocolorin B₁**

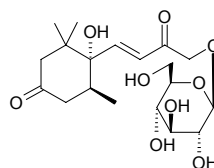
$C_{34}H_{34}O_{10}$ (602.64). Yellow-green powder, mp 139–141°C (MeOH), $[\alpha]_D = -316^\circ$ ($c = 0.045$, $CHCl_3$). Source: *Dermocybe* sp. (fruit body). Ref: 3799.

**2021 Austroinulin**

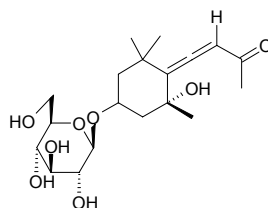
$C_{20}H_{34}O_3$ (322.49). Pharm: Cytotoxic (HeLa, $IC_{50} = 22.3\mu g/mL$, control Mitomycin C, $IC_{50} = 1.7\mu g/mL$); cell cycle inhibitor (HeLa, at G1 stage, $15.2\mu g/mL$ ($47.2\mu mol/L$)). Source: TUAN JI AI NA XIANG *Blumea glomerata*. Ref: 4092.

**2022 Austroside A**

$C_{19}H_{30}O_9$ (402.45). White powder, $[\alpha]_D^{25} = -40.8^\circ$ ($c = 1.3$, MeOH). Source: HUA NAN WU ZHU YU *Evodia austrosinensis*. Ref: 5052.

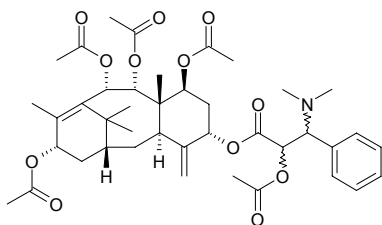
**2023 Austroside B**

$C_{19}H_{30}O_8$ (386.45). White powder, $[\alpha]_D^{25} = -33.8^\circ$ ($c = 0.8$, MeOH). Source: HUA NAN WU ZHU YU *Evodia austrosinensis*. Ref: 5052.

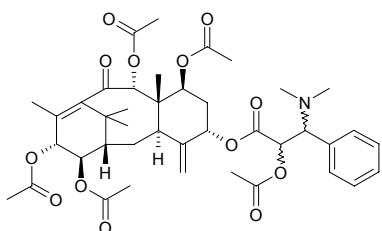


2024 Austrospicatine

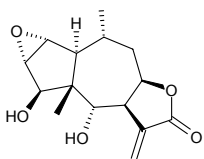
[119777-76-3] $C_{41}H_{55}NO_{12}$ (753.89). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**2025 Austrotaxine**

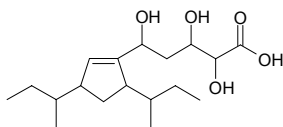
[119789-82-1] $C_{41}H_{53}NO_{13}$ (767.88). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**2026 Autumnolide**

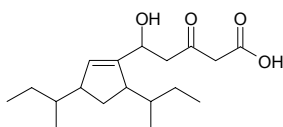
[20505-32-2] $C_{15}H_{20}O_5$ (280.32). Colorless acicular crystals (acetone-motor naphtha), mp 199–201°C; 188–190°C, $[\alpha]_D^{25} = +20.6^\circ$ ($c = 1.84$, chloroform). Pharm: Antineoplastic; cytotoxic (KB, $ED_{50} = 3.1$ mg/mL). Source: SHAN DI DUI XIN JU *Helenium autumnale* var. *montanum*, DUI XIN JU *Helenium autumnale*. Ref: 658, 661.

**2027 Auxin A**

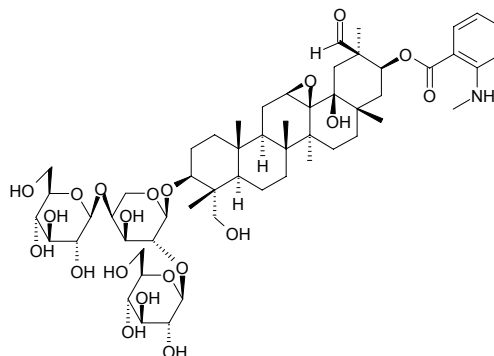
$C_{18}H_{32}O_5$ (328.45). Source: LV SUN PIAN *Sinocalamus oldhami*. Ref: 660.

**2028 Auxin B**

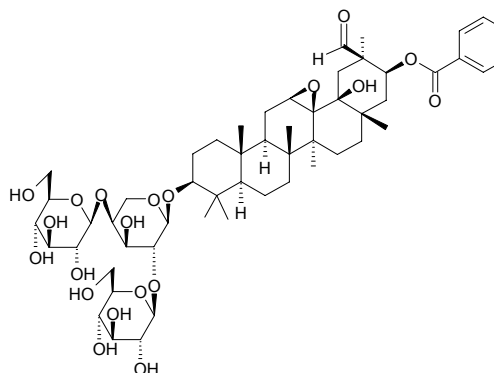
$C_{18}H_{30}O_4$ (310.44). Source: LV SUN PIAN *Sinocalamus oldhami*. Ref: 660.

**2029 Avenacin A₁**

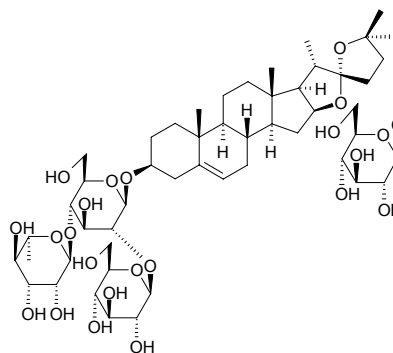
[90547-90-3] $C_{55}H_{83}NO_{21}$ (1094.27). Pharm: Antifungal (pathogen fungi of plants); hemolytic. Source: YAN MAI *Avena sativa*. Ref: 658.

**2030 Avenacin B₂**

[90547-93-6] $C_{54}H_{80}O_{20}$ (1049.23). Pharm: Antifungal (pathogen fungi of plants); hemolytic. Source: YAN MAI *Avena sativa*. Ref: 658.

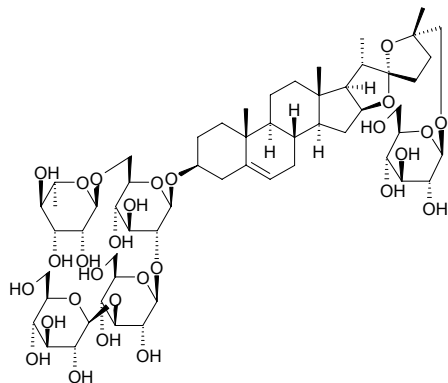
**2031 Avenacoside A**

[24915-65-9] $C_{51}H_{82}O_{23}$ (1063.21). Pharm: Antifungal. Source: YAN MAI *Avena sativa*. Ref: 658.

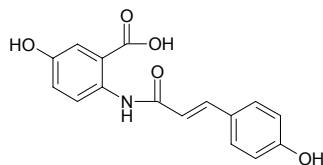


2032 Avenacoside B

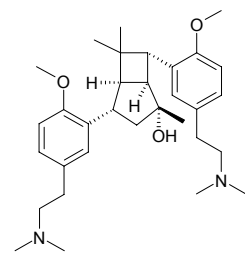
[35920-91-3] $C_{57}H_{92}O_{28}$ (1225.35). Pharm: Antifungal. Source: YAN MAI *Avena sativa*. Ref: 658.

**2033 Avenalumin I**

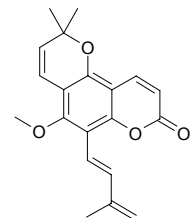
[108605-70-5] $C_{16}H_{13}NO_5$ (299.28). Pharm: Antifungal. Source: YAN MAI *Avena sativa*. Ref: 658.

**2034 Avicennamine**

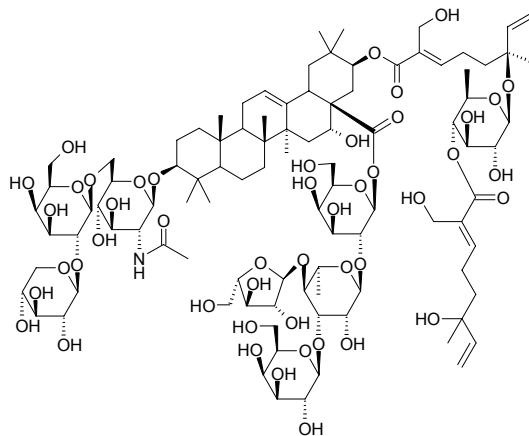
$C_{32}H_{48}N_2O_3$ (508.75). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**2035 Avicennin**

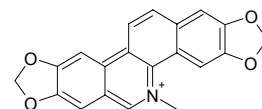
[53258-71-2] $C_{20}H_{20}O_4$ (324.38). mp 141~142°C. Source: YING BU BO *Zanthoxylum avicennae*. Ref: 6.

**2036 Avicin D**

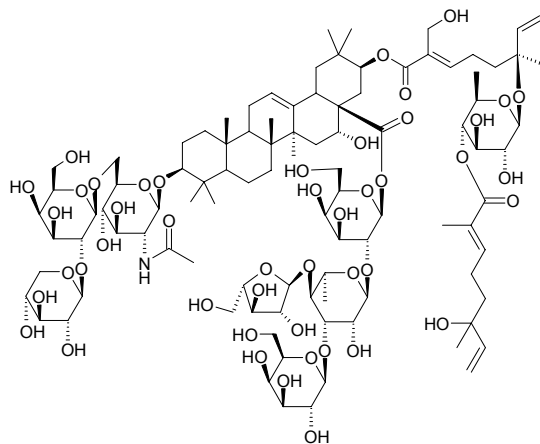
$C_{98}H_{155}NO_{47}$ (2099.31). Pharm: Anti-inflammatory (inhibits expression of COX-2 through inhibition of NF- κ B); anti-inflammatory (NO production inhibitor). Source: WEI DUO LI YA JIN HE HUAN *Acacia Victoria*. Ref: 4415.

**2037 Avicine**

[24939-31-9] $C_{20}H_{14}NO_4$ (332.34). Source: YING BU BO *Zanthoxylum avicennae*. Ref: 6.

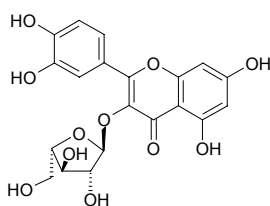
**2038 Avicin G**

$C_{98}H_{155}NO_{46}$ (2083.31). Pharm: Anti-inflammatory (inhibits expression of COX-2 through inhibition of NF- κ B)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]. Source: WEI DUO LI YA JIN HE HUAN *Acacia Victoria*. Ref: 4415.

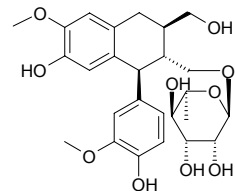


2039 Avicularin

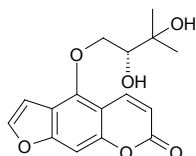
Polystachoside [5041-68-9] $C_{20}H_{18}O_{11}$ (434.36). mp 217°C (hydrate); 222°C (anhydrous); mp 246~247°C. **Pharm:** Diuretic; antihypertensive; hepatoprotective (primary cultures of rat hepatocytes, H_2O_2 -induced toxicity, 50 $\mu\text{mol/L}$, relative protection = 20.2% (H_2O_2 -treated, relative protection = 0.0%; control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%)^[4996]; toxin. **Source:** BIAN XU *Polygonum aviculare* (dried aerial parts: content scope = 0.194%~0.200%)^[5501], CHI MA *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], FAN SHI LIU GAN *Psidium guajava*, DUO SUI LIAO *Polygonum polystachyum*, FAN SHI LIU YE *Psidium guajava*, HU ZHANG YE *Polygonum cuspidatum*, LIANG QI LIAO *Polygonum amphibium*, MAN SHAN HONG *Rhododendron dauricum*, SAN BAI CAO *Saururus chinensis*, SAN SE JIN *Viola tricolor*, SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*] (stem and branch-leaf: content = 0.4%)^[5501], YUE JU YE *Vaccinium vitis-idaea*, RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). **Ref:** 6, 658, 660, 1521, 4996, 5501.

**2040 Aviculin**

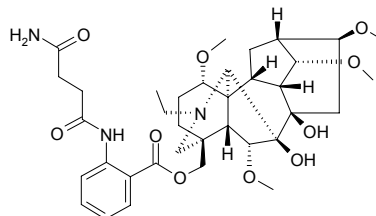
[156765-33-2] $C_{26}H_{34}O_{10}$ (506.55). **Pharm:** Inhibits cancer cell invasion (MM1 cells, *in vitro*, 10 $\mu\text{g/mL}$, InRt = 20.2%)^[4329]. **Source:** BIAN XU *Polygonum aviculare*, HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*. **Ref:** 1521, 4329.

**2041 Aviprin**

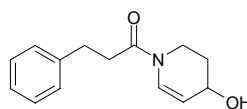
(*R*)-(+)-Oxypeucedanin hydrate; Hydroxypeucedanin hydrate [2643-85-8] $C_{16}H_{16}O_6$ (304.30). Yellowish lamellar crystals (petroleum ether-EtOAc), mp 130~132°C, $[\alpha]_D = +17^\circ$ (Me_2CO); yellowish fluorescence crystals (chloroform), mp 131.5~132.0°C; 134, $[\alpha]_D^{25} = +18^\circ$ ($c = 1.5$, acetone). **Pharm:** NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100 $\mu\text{mol/L}$, InRt = (5.5 \pm 3.4)%, control *L*-NMMA, 100 $\mu\text{mol/L}$, InRt = (79.2 \pm 0.9)%)^[4454]; antifungal (*Cladosporium cucumerinum*, MIC = 10 μg); calcium antagonist. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], FEN CHA DANG GUI *Angelica furcujuga* (flower), MO GUO QIN *Sphallerocarpus gracilis*. **Ref:** 2, 900, 2500, 4454.

**2042 Awadcharidine**

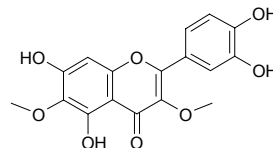
$C_{36}H_{51}N_3O_{10}$ (685.82). **Pharm:** Muscle relaxant (curariform action). **Source:** GAN WAN WU TOU *Aconitum finetianum*, GAO JIA SUO WU TOU *Aconitum orientale*, KE SHEN MI ER CUI QUE *Delphinium cashmerianum*. **Ref:** 658.

**2043 Awaine**

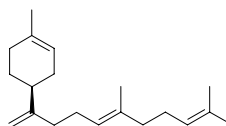
$C_{14}H_{17}NO_2$ (231.30). Colorless oil. **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 3373.

**2044 Axillarin**

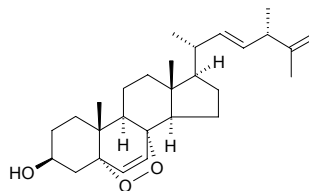
[5188-73-8] $C_{17}H_{14}O_8$ (346.30). **Pharm:** Antiviral; aldose reductase inhibitor (eye lens). **Source:** MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], HUANG HUA HAO *Artemisia annua*, *Achillea* sp., *Artemisia* sp. **Ref:** 2, 658, 660.

**2045 (+)-Axinyssene**

(+)-1-Methyl-4-(5,9-dimethyl-1-methylene-deca-4,8-dienyl)cyclohexene $C_{20}H_{32}$ (272.48). Colorless oil. **Source:** QUAN YUAN YE AO TUO SI TE CAO *Otostegia integrifolia* (leaf). **Ref:** 3823.

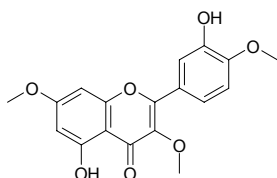
**2046 Axinysterol**

$C_{28}H_{42}O_3$ (426.65). **Source:** Sponge *Axinyssa* sp. **Ref:** 4231.

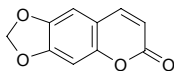


2047 Ayanin

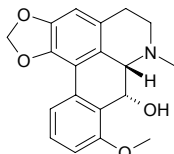
$C_{18}H_{16}O_7$ (344.32). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 0.22 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 11.2 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 6.9 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL)^[5405]. **Source:** BEI AI *Artemisia vulgaris*, SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 660, 5405.

**2048 Ayapin**

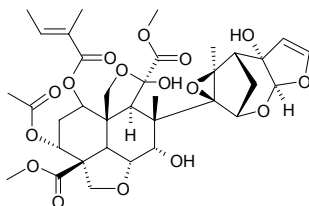
6,7-Methylenedioxy coumarin [494-56-4] $C_{10}H_6O_4$ (190.15). Yellow crystals (MeOH), mp 222–223°C, mp 231–232°C. **Pharm:** Hemostatic (dog, ip, 500mg/kg, reduces time of coagulation by 18.4%, 350mg/kg, reduces time of coagulation by 96.1%); cytotoxic inactive (Lu1, 20 μg/mL, control Ellipticine, ED₅₀ = 0.02 μg/mL; Col2, 20 μg/mL, Ellipticine, ED₅₀ = 0.3 μg/mL; KB, 20 μg/mL, Ellipticine, ED₅₀ = 0.04 μg/mL; LN CaP, 20 μg/mL, Ellipticine, ED₅₀ = 0.8 μg/mL; KB in absence of 1 μg/mL vinblastine, 20 μg/mL, Ellipticine, ED₅₀ = 0.3 μg/mL; KB in presence of 1 μg/mL vinblastine, 20 μg/mL, Ellipticine, ED₅₀ = 0.2 μg/mL; BC1, 20 μg/mL, Ellipticine, ED₅₀ = 0.5 μg/mL)^[3479]. **Source:** A YA PAN ZE LAN *Eupatorium ayapana*, *Alomia myriadenia* (aerial parts). **Ref:** 658, 661, 3479.

**2049 (-)-Ayuthianine**

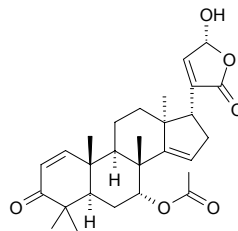
$C_{19}H_{19}NO_4$ (325.37). $[\alpha]_D^{25} = -29.8^\circ$ (CHCl₃). **Source:** *Stephania* sp. **Ref:** 3404.

**2050 Azadirachtin**

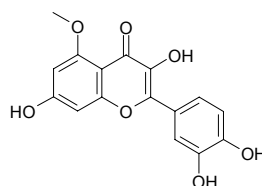
[11141-17-6] $C_{35}H_{44}O_{16}$ (720.73). **Pharm:** Anthelmintic (effective component in seeds of *Melia azedarach*); insect antifeedant (including grasshoppers). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 658.

**2051 Azadironolide**

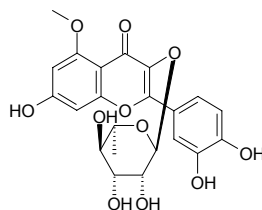
$C_{28}H_{36}O_6$ (468.60). $[\alpha]_D^{28} = +8.9^\circ$ (c = 0.17, CHCl₃) **Source:** YIN DU LIAN *Azadiractica indica*. **Ref:** 1521.

**2052 Azaleatin**

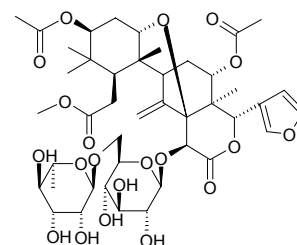
Quercetin-5-methyl ether [529-51-1] $C_{16}H_{12}O_7$ (316.27). mp 322°C. **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*, GAO LIANG JIANG *Alpinia officinarum*, MAN SHAN HONG *Rhododendron dauricum*, XI YE TENG *Tetracera asiatica*, XUAN FU HUA *Inula britannica*, YING SHAN HONG *Rhododendron mucronulatum*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. **Ref:** 6, 660.

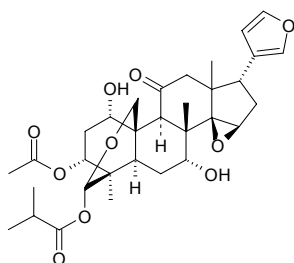
**2053 Azalein**

[29028-02-2] $C_{22}H_{22}O_{11}$ (462.41). mp 181–185°C. **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*. **Ref:** 6.

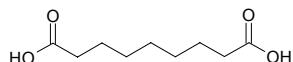
**2054 Azecin 1**

[182565-73-7] $C_{43}H_{60}O_{20}$ (896.93). Colorless crystals solid, mp 180–182°C. **Pharm:** Insect antifeedant. **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 1043.

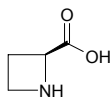
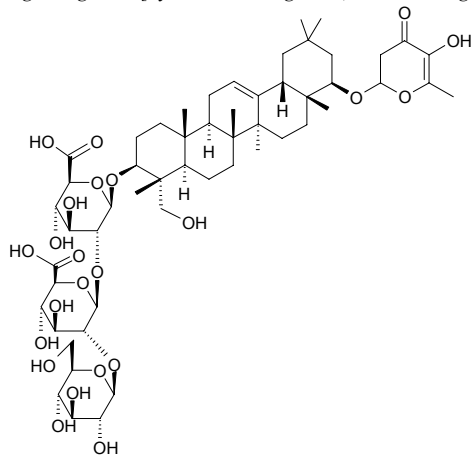
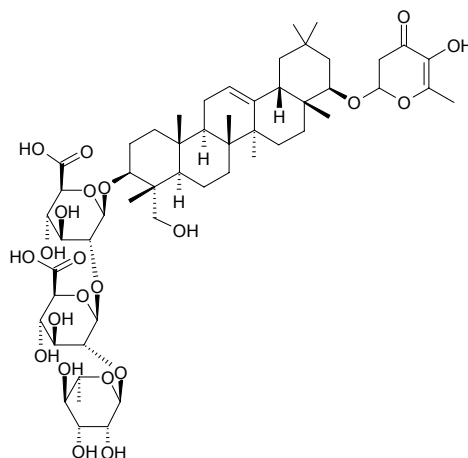
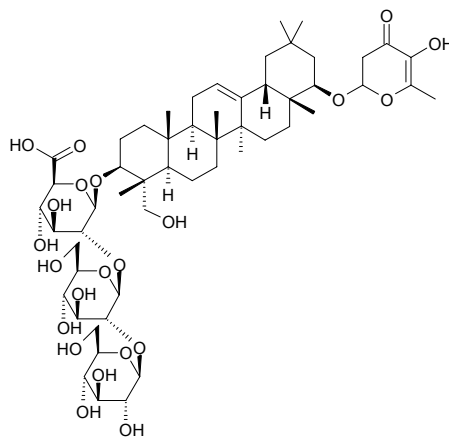
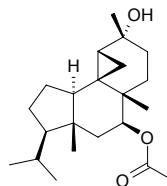


2055 Azedarachin C[157653-66-2] C₃₂H₄₂O₁₀ (586.68). [α]_D²² = -41° (c = 0.08, chloroform).Pharm: Insect antifeedant. Source: KU LIAN PI *Melia azedarach*. Ref: 1118.**2056 Azelaic acid**

Anchoic acid [123-99-9] C₉H₁₆O₄ (188.23). Pharm: Anti-acne agent (used in treatment of acne and other pigment diseases instead of tetracycline). Source: DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], MU JIN PI *Hibiscus syriacus*, SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00031%dw)^[4665]. Ref: 2, 519, 658, 4665.

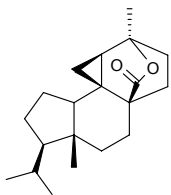
**2057 Azetidine-2-carboxylic acid**

[2133-34-8] C₄H₇NO₂ (101.11). Does not melt, but turns black at 270°C. Pharm: Antimicrobial; larvacide. Source: DUO HUA HUANG JING *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], FENG HUANG MU *Delonix regia*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], TIAN CAI *Beta vulgaris*, YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. Ref: 6, 658, 660.

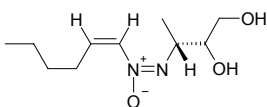
**2058 Az II**C₅₄H₈₂O₂₃ (1099.24). [α]_D²³ = -37.4° (c = 0.43, MeOH). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*]. Ref: 2337.**2059 Az III**C₅₄H₈₂O₂₂ (1083.24). [α]_D²³ = -68.25° (c = 0.4, MeOH). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*]. Ref: 2337.**2060 Az IV**[244776-47-4] C₅₄H₈₄O₂₂ (1085.26). [α]_D²³ = -80.75° (c = 0.4, MeOH). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*]. Ref: 2337.**2061 Azorellanol**C₂₂H₃₆O₃ (348.53). Pharm: Trichomonocidal (*Trichomonas vaginalis*, LD₅₀ = 40.5 μmol/L)^[5125]. Source: *Azorella yareta* (aerial parts). Ref: 5125.

2062 Azorellolide

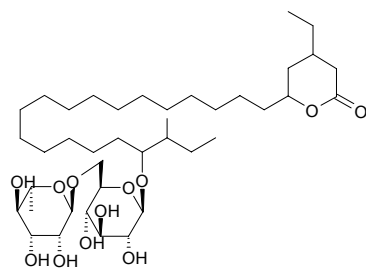
$C_{20}H_{30}O_2$ (302.46). Colorless needles (ethyl ether), mp 146–147°C, $[\alpha]_D^{19.8} = -64.94^\circ$ ($c = 0.56$, $CHCl_3$). Source: YIN HUA YAO XIAO YING QIN *Azorella cryptantha* (aerial parts). Ref: 3825.

**2063 Azoxyalkene**

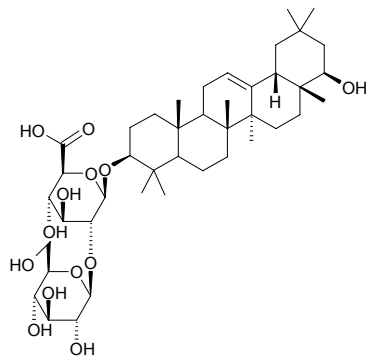
$C_{10}H_{20}N_2O_3$ (216.28). Yellow oil, $[\alpha]_D^{25} = -30^\circ$ ($c = 0.2$, MeOH). Pharm: Antibiotic (*Rhodotorula* sp., weak). Source: XING SHU GEN *Prunus armeniaca*. Ref: 5402.

**2064 Azralidose**

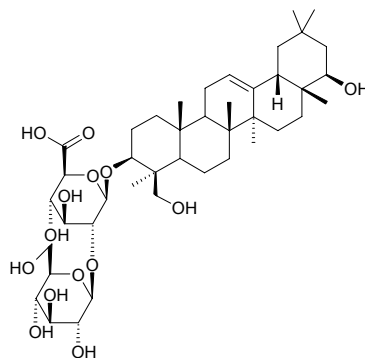
[37551-77-2] $C_{40}H_{74}O_{12}$ (747.03). mp 108–110°C. Source: SHEN HUANG DOU *Cassia nodosa*. Ref: 6.

**2065 Azukisaponin I**

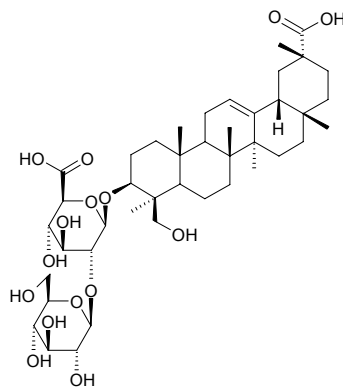
$C_{42}H_{68}O_{13}$ (781.00). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], HUAI *Sophora japonica*. Ref: 660.

**2066 Azukisaponin II**

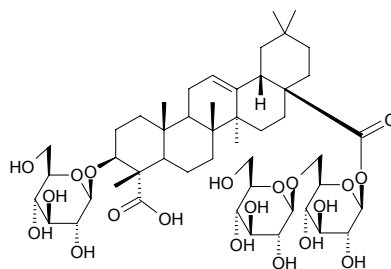
$C_{42}H_{68}O_{14}$ (797.00). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], HUAI *Sophora japonica*. Ref: 660.

**2067 Azukisaponin III**

$C_{42}H_{66}O_{15}$ (810.99). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*]. Ref: 1521.

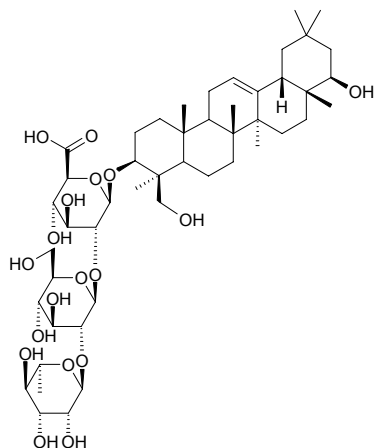
**2068 Azukisaponin IV**

$C_{48}H_{76}O_{20}$ (973.13). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], SHI ZHU *Dianthus chinensis*. Ref: 660.

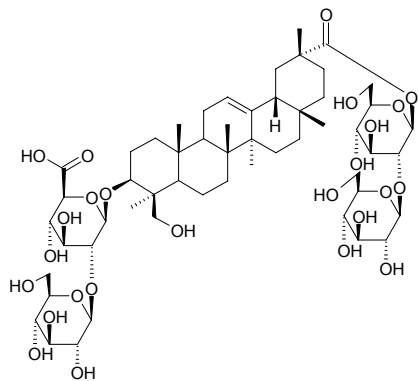


2069 Azukisaponin V

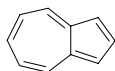
$C_{48}H_{78}O_{18}$ (943.15). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], HUAI *Sophora japonica*. Ref: 660.

**2070 Azukisaponin VI**

$C_{54}H_{86}O_{25}$ (1135.27). Source: CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*]. Ref: 1521.

**2071 Azulene**

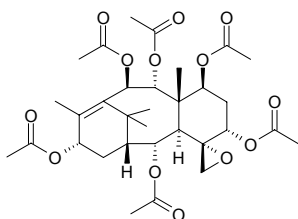
[275-51-4] $C_{10}H_8$ (128.18). mp 98.5–99.0°C. Pharm: Antiulcerative (rat, gastric ulcer); 5α -reductase inhibitor inactive ($IC_{50} > 1\text{mmol/L}$; control Finasteride, $IC_{50} = (0.38 \pm 0.06)\mu\text{mol/L}$; α -Linolenic acid, $IC_{50} = (160.3 \pm 24.6)\mu\text{mol/L}$)^[5398]. Source: MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], YANG SHI CAO *Achillea millefolium*, ZHANG MU *Cinnamomum camphora*. Ref: 6, 658, 660, 5398.



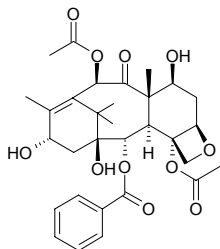
B

2072 Baccatin I

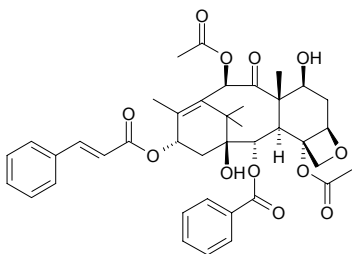
[30244-35-0] C₃₂H₄₄O₁₃ (636.70). mp 298°C, [α]_D = +86°. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**2073 Baccatin III**

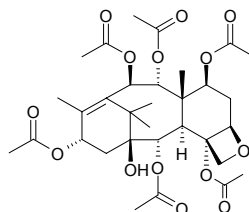
[27548-93-2] C₃₁H₃₈O₁₁ (586.64). White lump crystals (chloroform–diethyl ether), mp 230–234°C, mp 236–238°C, mp 229–231°C, [α]_D¹⁴ = –87.9° (c = 0.10, chloroform), [α]_D = –54° (MeOH), [α]_D = –54° (MeOH). Pharm: Antineoplastic; cytotoxic; antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control Caffeic acid, IC₅₀ = 25.5 μmol/L)^[5407]; NO production inhibitor (IC₅₀ = 120 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. Source: JIANG GUO ZI SHAN *Taxus baccata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood), ZI SHAN *Taxus cuspidata*. Ref: 662, 900, 4666, 5407.

**2074 Baccatin III 13-cinnamate**

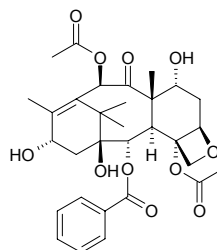
Taxuspinanane J; Deaminoacylcinnamoyltaxol C₄₀H₄₄O₁₂ (716.79). Gum, [α]_D²⁵ = –75.7° (c = 1.0, CHCl₃); [α]_D = –43.8° (CHCl₃), [α]_D = –75.7° (CHCl₃). Source: JIE ZHI HONG DOU SHAN *Taxus media*, MEI LI HONG DOU SHAN *Taxus mairei*, ZI SHAN *Taxus cuspidata*. Ref: 662, 1873.

**2075 Baccatin IV**

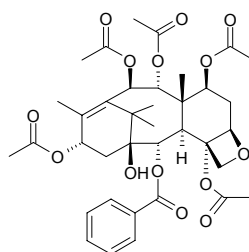
[57672-77-2] C₃₂H₄₄O₁₄ (652.70). mp 254–255°C, [α]_D = +19°. Pharm: NO production inhibitor (IC₅₀ = 51.2 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood), *Taxus* sp. Ref: 662, 5407.

**2076 Baccatin V**

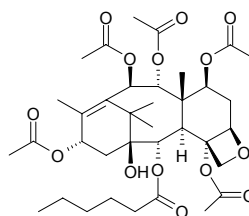
[31077-81-3] C₃₁H₃₈O₁₁ (586.64). mp 254–255°C, [α]_D = –87°. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**2077 Baccatin VI**

C₃₇H₄₆O₁₄ (714.77). mp 239–241°C, mp 248–250°C, mp 244–245°C, [α]_D = –5° (CHCl₃), [α]_D = –9° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*, JIE ZHI HONG DOU SHAN *Taxus media*. Ref: 662, 1521.

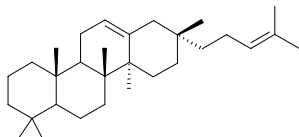
**2078 Baccatin VII**

C₃₆H₅₂O₁₄ (708.81). mp 270°C, [α]_D = +9°. Source: *Taxus* sp. Ref: 662, 1521.

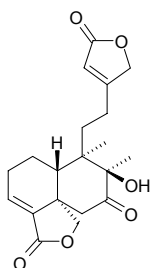


2079 Bacchara-12,21-diene

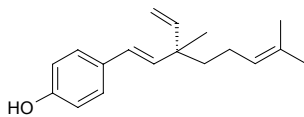
C₃₀H₅₀ (410.73). **Source:** DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. **Ref:** 660.

**2080 Bacchariol**

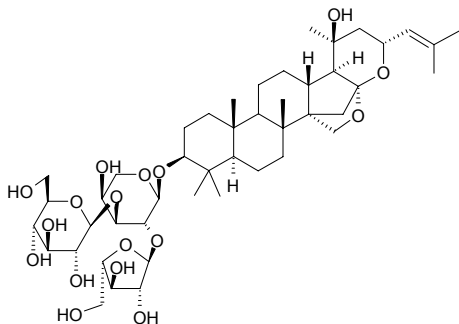
C₂₀H₂₄O₆ (360.41). White powder, mp 179~182°C, $[\alpha]_D^{25} = -117^\circ$ ($c = 0.7$, CHCl₃). **Source:** *Baccharis gaudichaudiana* (aerial parts). **Ref:** 4313.

**2081 Bakuchiol**

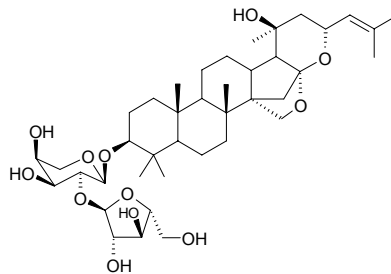
Bakuchiol [10309-37-2] C₁₈H₂₄O (256.37). Yellowish oily liquid, bp 145~147°C/0.7mmHg, $[\alpha]_D = +37.2^\circ$. **Pharm:** Antibacterial (*Staphylococcus aureus*, 10µg/mL, 2min; *trichophyton* sp., 10µg/mL, 8min; dog, *Microsporium* sp., 10µg/mL, 8min; *staphylococcus aureus* H114, 2~4µg/mL); antibacterial (*Staphylococcus aureus*, MIC = 20.0µg/mL; *Micrococcus luteus*, MIC = 10.0µg/mL)^[4498]; antibacterial (*Staphylococcus aureus*, MIC = 25.0µmol/L; *Micrococcus epidermidis*, MIC = 15.0µmol/L)^[5337]; protein tyrosine Phosphatase 1B (PTP1B) inhibitor (IC₅₀ = (20.8±1.9)µmol/L, control RK-682, IC₅₀ = 5.0µmol/L)^[5049]. **Source:** BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: mean content of 11 origins = 2.39%^[5508]), HE GUO ZHUANG BU GU ZHI *Psoralea drupacea*, TAI WAN XIU XIAN JU *Spiraea formosana*. **Ref:** 1, 2, 4, 658, 661, 1521, 2575, 4498, 5049, 5337, 5508.

**2082 Bacopasaponin C**

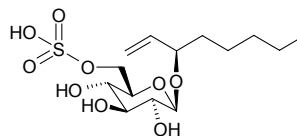
C₄₆H₇₄O₁₇ (899.09). **Pharm:** Cytotoxic (BST assay, IC₅₀ = 3.9µg/mL; control Podophyllotoxin, IC₅₀ = 4.5µg/mL). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb). **Ref:** 5332.

**2083 Bacopasaponin G**

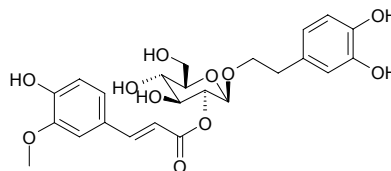
3-*O*-[α -L-Arabinofuranosyl-(1→2)]- α -L-arabinopyranosyl-jujubogenin C₄₀H₆₄O₁₂ (736.95). White amorphous powder, $[\alpha]_D^{25} = -54.5^\circ$ ($c = 0.4$, MeOH). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00080%fw). **Ref:** 4664.

**2084 Bacopaside A**

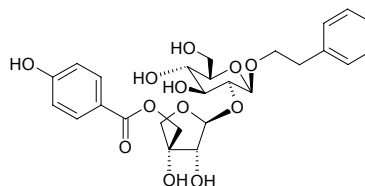
(3*R*)-1-Octan-3-yl-(6-*O*-sulfonyl)- β -D-glucopyranoside C₁₄H₂₆O₉S (370.42). Off-white amorphous powder, $[\alpha]_D^{25} = +17.7^\circ$ ($c = 0.4$, MeOH). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00072%fw). **Ref:** 4664.

**2085 Bacopaside B**

3,4-Dihydroxyphenylethyl alcohol (2-*O*-feruloyl)- β -D-glucopyranoside C₂₄H₂₈O₁₁ (492.48). Off-white amorphous powder, $[\alpha]_D^{25} = -209.5^\circ$ ($c = 0.2$, MeOH). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00072%fw). **Ref:** 4664.

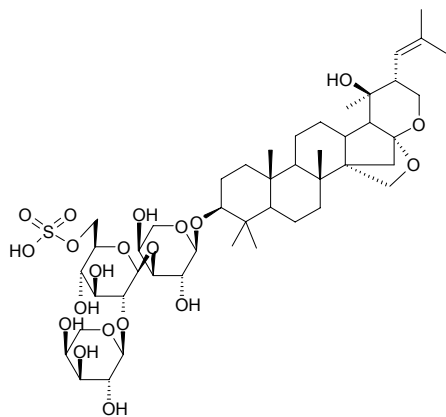
**2086 Bacopaside C**

Phenylethyl alcohol [5-*O*-*p*-hydroxybenzoyl- β -D-apiofuranosyl-(1→2)]- β -D-glucopyranoside C₂₆H₃₂O₁₂ (536.54). Off-white amorphous powder, $[\alpha]_D^{25} = -13.8^\circ$ ($c = 1.0$, MeOH). **Source:** JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00048%fw). **Ref:** 4664.

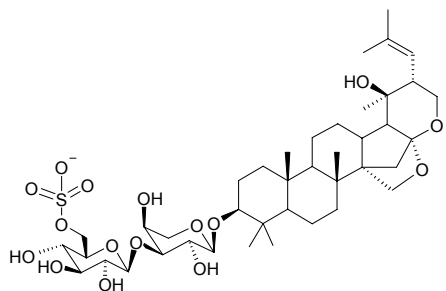


2087 Bacopaside I

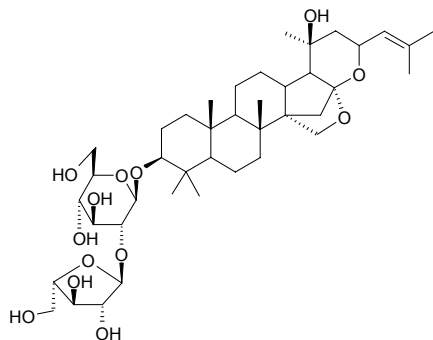
$C_{46}H_{74}O_{20}S$ (979.15). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4316.

**2088 Bacopaside III**

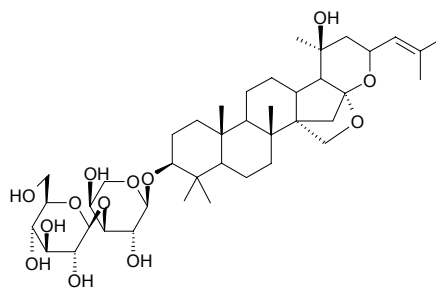
3-*O*-[6-*O*-Sulfonyl- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl-pseudojujubogenin $C_{41}H_{65}O_{16}S^-$ (846.03). White amorphous powder, $[\alpha]_D^{25} = -17.4^\circ$ ($c = 0.4$, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4664.

**2089 Bacopaside IIIb***

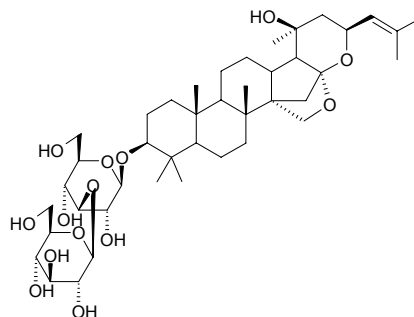
$C_{41}H_{66}O_{13}$ (766.98). Micro needles, mp 232–234°C (dec), $[\alpha]_D^{23} = -44.8^\circ$ ($c = 0.52$, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00082%fw). Ref: 4316.

**2090 Bacopaside IV**

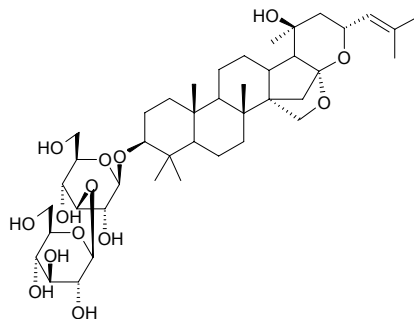
$C_{41}H_{66}O_{13}$ (766.98). Fine needles, mp 272–274°C (dec), $[\alpha]_D^{23} = -5.2^\circ$ ($c = 0.50$, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4316.

**2091 Bacopaside N₁**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl]jujubogenin $C_{42}H_{68}O_{14}$ (797.00). White amorphous powder, mp 256–260°C, $[\alpha]_D = -25.3^\circ$ ($c = 0.025$, CH₃OH). Pharm: Cytotoxic inactive (BST assay, IC₅₀ > 100 μ g/mL; control Podophyllotoxin, IC₅₀ = 4.5 μ g/mL). Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb). Ref: 5332.

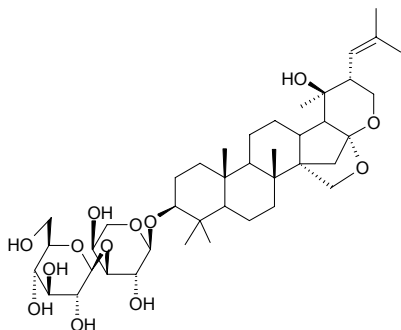
**2092 Bacopaside N₂**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl]pseudojujubogenin $C_{42}H_{68}O_{14}$ (797.00). White amorphous powder, mp 278–282°C, $[\alpha]_D = -25.0^\circ$ ($c = 0.0058$, CH₃OH). Pharm: Cytotoxic inactive (BST assay, IC₅₀ > 100 μ g/mL; control Podophyllotoxin, IC₅₀ = 4.5 μ g/mL). Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb). Ref: 5332.

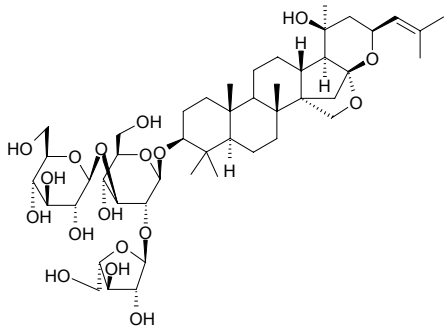


2093 Bacopaside V

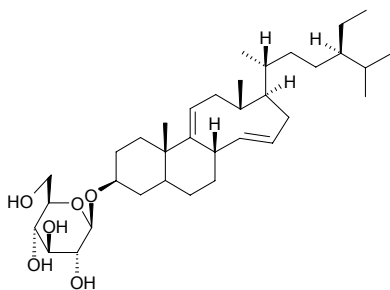
C₄₁H₆₆O₁₃ (766.98). Fine needles, mp 274~276°C (dec), $[\alpha]_D^{23} = -24.9^\circ$ ($c = 0.38$, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4316.

**2094 Bacoside A₃**

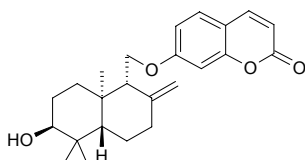
3-O-[β-D-Glucopyranosyl-(1→3)-O-α-L-arabinofuranosyl-(1→2)]-O-(β-D-glucopyranosyl)]jujubogenin C₄₇H₇₆O₁₈ (929.12). mp 244~250°C. Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.012%fw). Ref: 4664, 5332.

**2095 Bacosterol-3-O-β-D-glucopyranoside**

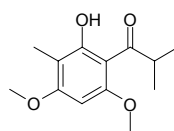
C₃₅H₆₀O₆ (576.86). White amorphous powder, $[\alpha]_D^{25} = -30.2^\circ$ ($c = 6.6 \times 10^{-4}$, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts: yield = 0.0014%dw). Ref: 1541.

**2096 Badrakemin**

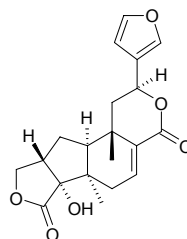
C₂₄H₃₀O₄ (382.50). Source: A WEI *Ferula assafoetida* (root), *Ferula badrakema*. Ref: 660, 5243.

**2097 Baeckeol**

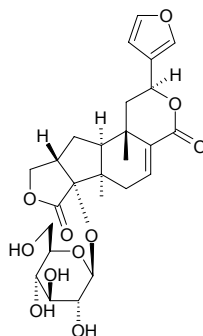
C₁₃H₁₈O₄ (238.29). mp 103~104°C. Source: GANG SONG *Baeckea frutescens*. Ref: 6.

**2098 Baenzigeride A**

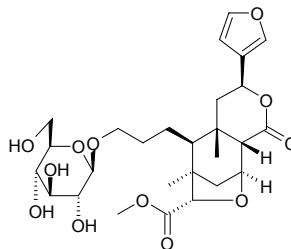
C₂₀H₂₂O₆ (258.39). Slightly green solid, colorless rhombs, mp 184~185°C, $[\alpha]_D^{25} = +23.79^\circ$ ($c = 0.14$, MeOH). Source: *Tinospora baenzigeri*. Ref: 2394.

**2099 Baenzigeroside A**

C₂₆H₃₂O₁₁ (520.54). Light brown solid, Colorless powder, mp 210~212°C, $[\alpha]_D^{25} = -7.92^\circ$ ($c = 0.27$, MeOH). Source: *Tinospora baenzigeri*. Ref: 2394.

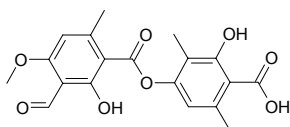
**2100 Baenzigeroside B**

C₂₇H₃₈O₁₂ (554.60). Colorless powder, mp 136~137°C, $[\alpha]_D^{25} = +23.3^\circ$ ($c = 0.33$, MeOH). Source: *Tinospora baenzigeri* (stem). Ref: 3549.



2101 Baeomycesic acid

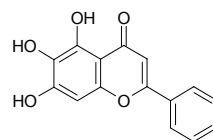
[644-66-6] C₁₉H₁₈O₈ (374.35). mp 233°C. **Pharm:** 5-LOX inhibitor (porcine leucocytes, *in vitro*, IC₅₀ = 8.3 μmol/L, control Zileuton, IC₅₀ = 0.4 μmol/L, LOX has been implicated in carcinogenesis in various types)^[4082]; cytotoxic (acute promyelocytic leukemia (HL-60), EC₅₀ > 80 μg/mL, Zileuton, EC₅₀ = (38.8±12.3) μg/mL; colorectal adenocarcinoma (WiDr), EC₅₀ > 80 μg/mL, Zileuton, EC₅₀ > 80 μg/mL; erythro-leukemia (K562), EC₅₀ = (36.8±6.9) μg/mL, Zileuton, EC₅₀ = (38.5±5.4) μg/mL; gastric adenocarcinoma (AGS), EC₅₀ = (48.0±3.3) μg/mL, Zileuton, EC₅₀ = (70.5±3.1) μg/mL; mammary carcinoma (T47-D), EC₅₀ = (58.8±5.6) μg/mL, Zileuton, EC₅₀ = (23.9±4.1) μg/mL; ovarian adenocarcinoma (OVCAR-3), EC₅₀ > 80 μg/mL, Zileuton, EC₅₀ = (53.1±7.7) μg/mL; pancreas cancer (Capan1), EC₅₀ > 80 μg/mL, Zileuton, EC₅₀ = (12.9±11.7) μg/mL; pancreas cancer (Capan2), EC₅₀ = (53.8±12) μg/mL, Zileuton, EC₅₀ > 80 μg/mL; pancreas cancer (PANC1), EC₅₀ > 80 μg/mL, Zileuton, EC₅₀ = (46.6±5.4) μg/mL; prostatic cancer (PC3), EC₅₀ = (28.8±6.5) μg/mL, Zileuton, EC₅₀ = (49.9±9.0) μg/mL; small cell lung cancer (NCI-H1417), EC₅₀ = (62.2±12.2) μg/mL, Zileuton, EC₅₀ > 80 μg/mL; T-cell leukemia (Jurkat-T), EC₅₀ = (52.6±9.0) μg/mL, Zileuton, EC₅₀ = (78.3±5.0) μg/mL)^[4082]. **Source:** BAN JIU *Streptopelia orientalis*, Lichen *Thamnomia vermicularis* var. *subuliformis*. **Ref:** 6, 4082.



2102 Baicalein

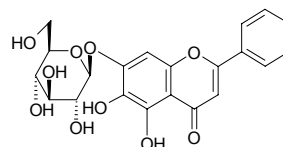
Noroxylin [491-67-8] C₁₅H₁₀O₅ (270.24). **Pharm:** Antiallergic; anti-inflammatory (modulator of cytokine network: increases TNF-α level in RAW264.7 cells)^[4416]; anti-inflammatory (inhibits binding of several chemokines, such as CXC, CC to hmn leukocytes or cells transfected with chemokine receptors)^[4416]; anti-inflammatory (prevents eotaxin production (IC₅₀ = 1.8 μg/mL) and mRNA eotaxin expression in hmn fibroblasts stimulated with IL-4 plus TNF-α)^[4416]; anti-inflammatory (macrophages, IL-12 production inhibitor, LPS-activated, NF-κB binding inhibitor)^[5437]; decreases accumulation of reactive oxygen intermediates (hmn neutrophils and monocytes, fMLP- or PMA-induced, IC₅₀ = 1.5~64.5 μmol/L)^[4416]; integrin MAC-1 inhibitor (fMLP-induced, decreases increase in surface expression of MAC-1 (CD11b/CD18) and MAC-1 dependent neutrophil adhesion)^[4416]; anti-inflammatory (hmn retinal pigment epithelial cell lines, IL-6 and IL-8 blocker, blocking production and expression of IL-6 and IL-8, IC₅₀ = 1~40 μmol/L)^[4416]; choleric; diuretic; antithrombotic (extends clotting time of fibrinogen by thrombase in high concentration); aldoketomutase I inhibitor; lipoxygenase inhibitor (*in vitro*, IC₅₀ = (22.5±0.3) μmol/L)^[2555]; lipoxygenase inhibitor (EC1.13.11.12, IC₅₀ = (22.4±1.3) μmol/L)^[3802]; lipoxygenase inhibitor (*in vitro*, IC₅₀ = (22.4±1.3) μmol/L)^[4319]; lipoxygenase inhibitor (type I-B EC1.13.11.12, IC₅₀ = (22.6±0.05) μmol/L)^[4442]; lipoxygenase inhibitor (EC1.13.11.12, IC₅₀ = (22.0±0.05) μmol/L, mixed type, Ki = (18.0±0.02) μmol/L)^[4490]; 12-lipoxygenase inhibitor (10 μg/mL, InRt = 56.23%)^[5249]; antihypercholesterolemic; leukocyte elastase MMP-2/9 inhibitor^[4416]; anti-inflammatory (5-lipoxygenase selective inhibitor in rat resident peritoneal macrophage; LTC₄ selective inhibitor in rat resident

peritoneal macrophage, IC₅₀ = 9.5 μmol/L; oral ameliorates several inflammatory symptoms of experimental colitis, such as body-weight loss, low blood haemoglobin content and rectal bleeding (baicalein only, but not baicalin and wogonin); inhibits TPA-induced ear oedema in mouse skin; ornithine decarboxylase inhibitor in mouse skin; myeloperoxidase inhibitor in mouse skin; anti-oedematogenic on rat; 15-lipoxygenase inhibitor^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (KU-1 hmn bladder cancer cell line, EJ-1 hmn bladder cancer cell line, MBT-2 murine bladder cancer cell line, inhibits cell proliferation *in vitro* in a dose-dependent manner, less active than baicalin)^[5369]; cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)^[5369]; cytotoxic (inhibits growth of MDA-MB-435 hmn breast carcinoma cell line, IC₅₀ = 6 μg/mL, more active than hesperetin and naringenin)^[5369]; cytotoxic (inhibits proliferation of estrogen receptor-positive MCF7 hmn breast cancer cells, the inhibition was not reversible by an addition of estrogen)^[5369]; cytotoxic (inhibits hmn T-lymphoid leukemia cell proliferation, IC₅₀ = 5 μmol/L)^[5369]; cytotoxic (BxPC3 hmn pancreatic cancer cell line, IC₅₀ = 50 μg/mL, PLC/PRF/5 hmn hepatoma cell line, HepG2 hmn hepatoma cell line, inhibits cell growth)^[5369]; cAMP phosphodiesterase inhibitor (inhibits cAMP-specific isoenzyme family PDE4, IC₅₀ = 10 μmol/L)^[5369]; DNA topoisomerase II inhibitor (probably by stabilizing covalent enzyme-DNA intermediate in a ternary complex)^[5369]; α-glucosidase inhibitor (mouse melanoma cells, suppresses *in vitro* invasion and *in vivo* metastasis)^[5369]; xanthine oxidase inhibitor (strong action, indicating that it might be useful for the remission of brain tumors, since xanthine oxidase serum levels are increased in tissues of brain tumors)^[5369]; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC₅₀ = 1.1 μmol/L, more active than Baicalin, wogonin, wogonoside and skullcapflavone II)^[5369]; tyrosine kinase inhibitor (tyrosine kinase in hmn T-lymphoid leukemia cells)^[5369]. **Source:** BING TOU HUANG QIN *Scutellaria scordifolia*, CHUAN HUANG QIN *Scutellaria hypericifolia*, DA CHE QIAN *Plantago major*, DIAN HUANG QIN *Scutellaria amoena*, GAN SU HUANG QIN *Scutellaria rehderiana*, HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 20 samples = 0.17%~11.94%, mean content = 1.85%^[5508]), LI JIANG HUANG QIN *Scutellaria likiangensis*, MU HU DIE *Oroxylum indicum*, NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 4, 658, 660, 2555, 3802, 4319, 4415, 4416, 4442, 4490, 5249, 5369, 5437, 5501, 5508.



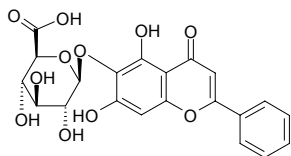
2103 Baicalein-7-O-β-D-glucopyranoside

Oroxin A [57396-78-8] C₂₁H₂₀O₁₀ (432.39). mp 178~180°C. **Source:** HUANG QIN *Scutellaria baicalensis*, MU HU DIE *Oroxylum indicum*. **Ref:** 2, 6, 660.

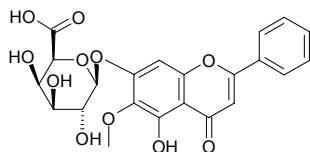


2104 Baicalein-6-glucuronide

$C_{21}H_{18}O_{11}$ (446.37). mp 114°C. Source: MU HU DIE *Oroxylum indicum*. Ref: 6.

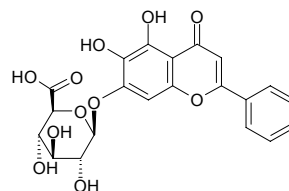
**2105 Baicalein 6-methylether-7-O-β-galactopyranuronoside**

$C_{22}H_{20}O_{11}$ (460.40). Yellowish amorphous powder Source: DONG AN NA TUO LI YA SHI CHE JU *Centaurea pseudoscabiosa* ssp. *Pseudoscabiosa*. Ref: 1947.

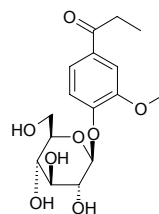
**2106 Baicalin**

Baicalein-7-glucuronide [21967-41-9] $C_{21}H_{18}O_{11}$ (446.37). mp 223°C. Pharm: Antiallergic; antibacterial; anti-inflammatory (modulator of cytokine network: increases TNF- α level in RAW264.7 cells)^[4416]; anti-inflammatory (significantly inhibits binding of several chemokines, such as CXC, CC to hmn leukocytes or cells transfected with chemokine receptors, IC₅₀ = 15~320 μ g/mL)^[4416]; anti-inflammatory (inhibits expression and production of IL-1 β , IL-6, TNF- α , IFN- γ , MIP-1 α/β in hmn peripheral blood mononuclear cells under stimulation with superantigenic staphylococcal exotoxins)^[4416]; decreases accumulation of reactive oxygen intermediates (hmn neutrophils and monocytes, fMLP- or PMA-induced, IC₅₀ = 1.5~64.5 μ mol/L)^[4416]; integrin MAC-1 inhibitor (fMLP-induced, decreases increase in surface expression of MAC-1(CD11b/CD18) and MAC-1 dependent neutrophil adhesion)^[4416]; antipyretic; choleric; diuretic; antihypertensive; antitoxin (reduces death rate of mus due to strychnine toxicosis); sedative; SP-A gene expression promoter (lung adenocarcinoma cell line H441, *in vitro*, in dose-dependent and time-course manners, maximal expression of SP-A gene of 1.7-fold greater than control, is induced at 150nmol/L of baicalin treated for 48h)^[5388]; a detail study on pharmacokinetics^[4076]; anti-inflammatory (anti-oedematogenic on rat; inhibits production of prostaglandin E2 in C6 rat glioma cells; inhibits LTB₄ biosynthesis; 12-LOX inhibitor in hmn platelets, without affecting the levels of cyclooxygenase)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (BxPC3 hmn pancreatic cancer cell line, IC₅₀ = 20 μ g/mL, PLC/PRF/5 hmn hepatoma cell line, HepG2 hmn hepatoma cell line, inhibits cell growth)^[5369]; cytotoxic (KU-1 hmn bladder cancer cell line, EJ-1 hmn bladder cancer cell line, MBT-2 murine bladder cancer cell line, inhibits cell proliferation *in vitro* in a dose-dependent manner, more active than baicalein and wogonin)^[5369]; cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)^[5369]; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC₅₀ > 60 μ mol/L)^[5369]. Source: BING TOU HUANG QIN *Scutellaria scordifolia*, CHUAN HUANG QIN *Scutellaria hypericifolia*, DA CHE QIAN *Plantago major*, DAN SHEN *Salvia*

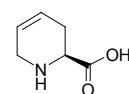
miltiorrhiza, DIAN HUANG QIN *Scutellaria amoena*, GAN SU HUANG QIN *Scutellaria rehderiana*, HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 27 origins, 10 samples = 4.42%~23.31%, mean content = 13.06%^[5508]), MU HU DIE *Oroxylum indicum*, MU HU DIE SHU PI *Oroxylum indicum*, NIAN MAO HUANG QIN *Scutellaria viscidula*. Ref: 2, 4, 5, 6, 658, 660, 4076, 4415, 4416, 5369, 5388, 5501, 5508.

**2107 Baihuaqianhuoside**

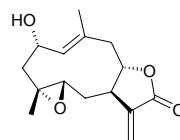
3-Methoxy-4-O- β -D-glycopyranosylpropiophenone $C_{16}H_{22}O_8$ (342.35). White crystalline powder, mp 165.5~167.5°C (chloroform-methanol). Pharm: Antioxidant (DPPH scavenger, EC₅₀ > 50 μ g/mL, 50 μ g/mL InRt = 18%, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]. Source: BAI HUA QIAN HU *Peucedanum praeruptorum*, BEI SHA SHEN *Glehnia littoralis* (underground part). Ref: 297, 4154.

**2108 L-Baikiaiin**

[498-98-6] $C_6H_9NO_2$ (127.14). Pharm: Phytotoxin; plant growth inhibitor (roots of germinative lettuce). Source: SE ZE YUN SHI *Caesalpinia tinctoria*. Ref: 658.

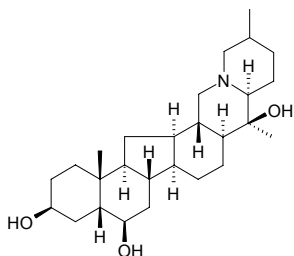
**2109 Baileyin**

[27875-37-2] $C_{15}H_{20}O_4$ (264.32). mp 202~204°C (benzene-ethyl acetate). Pharm: Antineoplastic (P₃₈₈ *in vivo*, ID = 25mg/kg); cytotoxic (KB *in vitro*, ED₅₀ = 16 μ g/mL, P₃₈₈ *in vitro*, ED₅₀ = 2.9 μ g/mL). Source: BAI LAI SHI JU *Baileya multiradiata*, DUO BIAN HUA BAI LAI SHI JU *Baileya pleniradiata*. Ref: 658, 661.

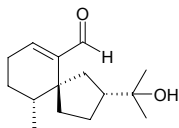


2110 Baimonidine

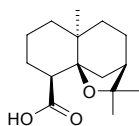
[73650-52-9] $C_{27}H_{45}NO_3$ (431.66). mp 179.0~181.5°C, $[\alpha]_D = -36.4^\circ$ ($c = 1.0$, $CHCl_3$). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660, 2201.

**2111 Baimuxinal**

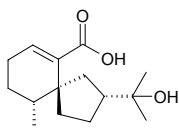
Oxoagarospirol $C_{15}H_{24}O_2$ (236.36). Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13, 660, 2792.

**2112 Baimuxinifuranic acid**

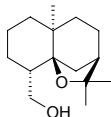
$C_{15}H_{24}O_3$ (252.36). Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13.

**2113 Baimuxinic acid**

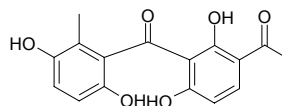
[84210-00-4] $C_{15}H_{24}O_3$ (252.36). Colorless lump crystals (methanol), mp 192~194°C, $[\alpha]_D^{30} = -23.1^\circ$ ($c = 0.59$, alcohol). Pharm: Anesthetic (mus); sedative; hypnotic. Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13, 908, 917, 5501.

**2114 Baimuxinol**

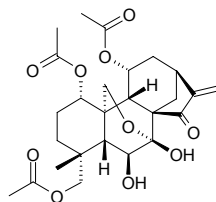
[105013-72-7] $C_{15}H_{26}O_2$ (238.37). Colorless lump crystals (acetone), mp 128~130°C, $[\alpha]_D^{30} = -83^\circ$ ($c = 0.56$, chloroform). Pharm: CNS depressant. Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13, 57, 58, 660, 947, 1034.

**2115 Baishouwubenzophenone**

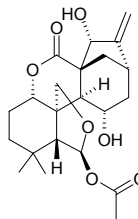
[115834-34-9] $C_{16}H_{14}O_6$ (302.29). Yellowish acicular crystals, mp 198~200°C. Source: ER YE NIU PI XIAO *Cynanchum auriculatum*. Ref: 103.

**2116 Baiyecrystal A**

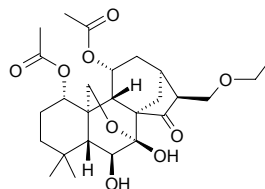
11 α -Acetoxyeffusanin D $C_{26}H_{34}O_{10}$ (506.55). mp 217.5~220°C, $[\alpha]_D^{21} = -1.68^\circ$ ($c = 0.45$, MeOH). Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**2117 Baiyecrystal B**

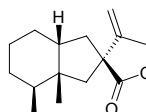
$C_{22}H_{30}O_7$ (406.48). mp 187.0~189.5°C, $[\alpha]_D^{23} = -40.50^\circ$ ($c = 0.50$, MeOH). Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**2118 Baiyecrystal C**

$C_{26}H_{38}O_9$ (494.59). mp 212.5~215°C, $[\alpha]_D^{21.2} = -15.04^\circ$ ($c = 0.27$, MeOH). Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

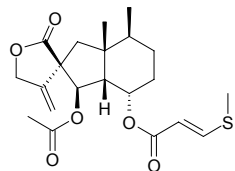
**2119 Bakkenolide A**

Fukinanolide [19906-72-0] $C_{15}H_{22}O_2$ (234.34). Pharm: Antineoplastic; cytotoxic; insect antifeedant. Source: JIN ZI TA XING QIAN LI GUANG *Senecio pyramidatus*, LV TI CAO YE TUO WU *Ligularia thalictroides*, *Petasites* sp. Ref: 658.

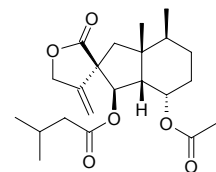


2120 Bakkenolide D

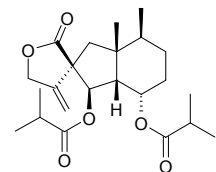
$C_{21}H_{28}O_6S$ (408.52). **Pharm:** Platelet aggregation inhibitor (100 μ mol/L AA-induced, 20 μ g/mL, InRt = (3.4 \pm 1.6)%, control Aspirin, 50 μ g/mL, InRt = (100 \pm 0.0)%; 10 μ g/mL collagen-induced, 100 μ g/mL, InRt = (20.6 \pm 5.5)%, $p < 0.001$, Aspirin, 50 μ g/mL, InRt = (12.2 \pm 1.7)%; 2nmol/L PAF-induced, 20 μ g/mL, InRt = (26.7 \pm 13.2)%, $p < 0.05$, Aspirin, 50 μ g/mL, InRt = (9.6 \pm 1.2)%); 0.1 μ g/mL thrombin-induced, 20 μ g/mL, InRt = (0.6 \pm 1.7)%)^[2377]. **Source:** TAI WAN FENG DOU CAI *Petasites formosanus*. **Ref:** 2377.

**2121 Bakkenolide G**

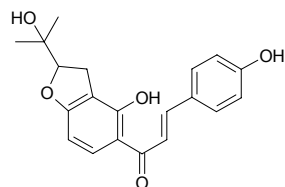
$C_{22}H_{32}O_6$ (392.50). Colorless plates (MeOH), mp 135–137°C, $[\alpha]_D = -119^\circ$ ($c = 0.13$, MeOH). **Pharm:** Platelet aggregation inhibitor (100 μ mol/L AA-induced, 100 μ g/mL, InRt = (8.7 \pm 1.7)%, $p < 0.001$, control Aspirin, 50 μ g/mL, InRt = (100 \pm 0.0)%; 10 μ g/mL collagen-induced, 100 μ g/mL, InRt = (10.3 \pm 3.0)%, $p < 0.001$, Aspirin, 50 μ g/mL, InRt = (12.2 \pm 1.7)%; 2nmol/L PAF-induced, 5 μ g/mL, InRt = (97.6 \pm 2.0)%, $p < 0.001$, Aspirin, 50 μ g/mL, InRt = (9.6 \pm 1.2)%); 0.1 μ g/mL thrombin-induced, 100 μ g/mL, InRt = (10.9 \pm 1.5)%, $p < 0.001$). **Source:** TAI WAN FENG DOU CAI *Petasites formosanus*. **Ref:** 2377.

**2122 Bakkenolide H**

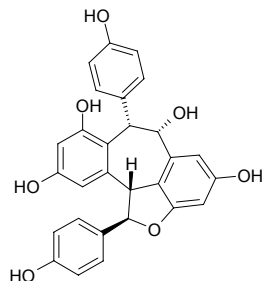
$C_{23}H_{34}O_6$ (406.52). Colorless needles (MeOH), mp 116–118°C, $[\alpha]_D = -31.6^\circ$ ($c = 0.0079$, MeOH). **Pharm:** Platelet aggregation inhibitor (100 μ mol/L AA-induced, 100 μ g/mL, InRt = (12.2 \pm 4.5)%, $p < 0.05$, control Aspirin, 50 μ g/mL, InRt = (100 \pm 0.0)%; 10 μ g/mL collagen-induced, 100 μ g/mL, InRt = (10.1 \pm 4.0)%, $p < 0.05$, Aspirin, 50 μ g/mL, InRt = (12.2 \pm 1.7)%); 2nmol/L PAF-induced, 100 μ g/mL, InRt = (91.6 \pm 6.8)%, $p < 0.001$, Aspirin, 50 μ g/mL, InRt = (9.6 \pm 1.2)%); 0.1 μ g/mL thrombin-induced, 100 μ g/mL, InRt = (18.7 \pm 4.5)%, $p < 0.001$). **Source:** TAI WAN FENG DOU CAI *Petasites formosanus*. **Ref:** 2377.

**2123 Bakuchalcone**

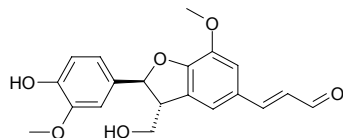
$C_{20}H_{20}O_5$ (340.38). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 660.

**2124 (+)-Balanocarpol**

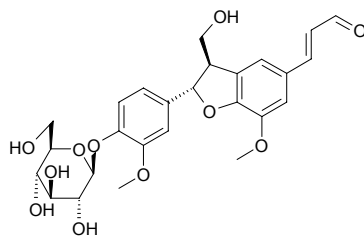
$C_{28}H_{22}O_7$ (470.48). Colorless solid. $[\alpha]_D = +30^\circ$ ($c = 0.03$, MeOH). **Source:** XIAO HUA PO LEI *Hopea parviflora* (bark). **Ref:** 3936.

**2125 Balanophonin**

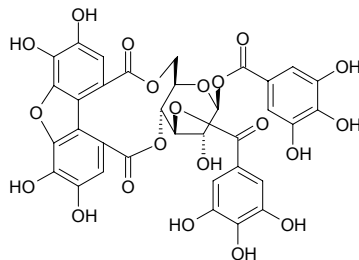
$C_{20}H_{20}O_6$ (356.38). **Source:** DA YE ZUI YU CAO *Buddleja davidii*, GE XUN *Balanophora japonica*, YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.00087% dw)^[4740]. **Ref:** 660, 4707.

**2126 Balanophonin-4-O-β-D-glucopyranoside**

$C_{26}H_{30}O_{11}$ (518.52). **Source:** GE XUN *Balanophora japonica* (fresh aerial parts). **Ref:** 4451.

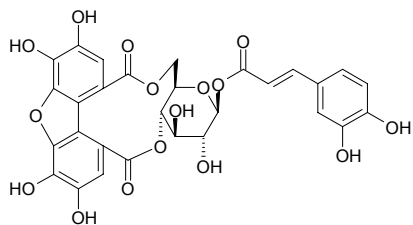
**2127 Balanophotannin A**

1,3-O-Di-galloyl-4,6-[1',1''-(3',3'',4',4''-tetrahydroxydibenzofurancarboxyl)]-β-D-glucopyranose $C_{34}H_{24}O_{21}$ (768.56). Tan amorphous powder, $[\alpha]_D^{20} = +12.2^\circ$ ($c = 0.4$, MeOH). **Source:** GE XUN *Balanophora japonica* (fresh aerial parts). **Ref:** 4451.

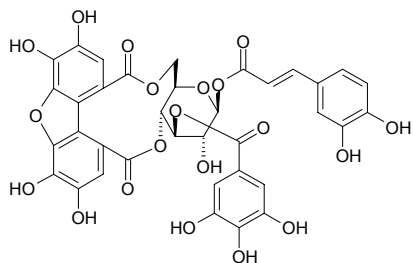


2128 Balanophotannin B

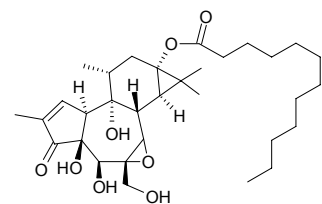
1-*O*-(*E*)-Caffeoyl-4,6-[1',1''-(3',3'',4',4''-tetrahydroxydibenzofurandicarboxyl)]- β -*D*-glucopyranose C₂₉H₂₂O₁₆ (626.49). Tan amorphous powder, $[\alpha]_D^{16} = +82.3^\circ$ ($c = 0.2$, MeOH). Source: GE XUN *Balanophora japonica* (fresh aerial parts). Ref: 4451.

**2129 Balanophotannin C**

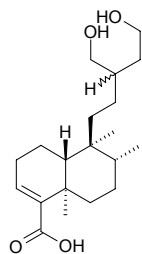
1-*O*-(*E*)-Caffeoyl-3-*O*-galloyl-4,6-[1',1''-(3',3'',4',4''-tetrahydroxydibenzofurandicarboxyl)]- β -*D*-glucopyranose C₃₆H₂₆O₂₀ (778.60). Tan amorphous powder, $[\alpha]_D^{16} = +81.7^\circ$ ($c = 0.5$, MeOH). Source: GE XUN *Balanophora japonica* (fresh aerial parts). Ref: 4451.

**2130 Baliospermin**

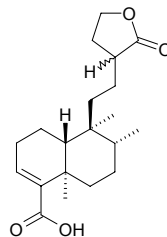
[66583-56-0] C₃₂H₅₀O₈ (562.75). Pharm: Cytotoxic. Source: BAN ZI MU *Baliospermum montanum*. Ref: 658.

**2131 Ballodiolic acid**

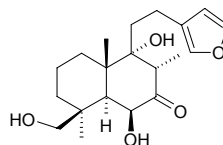
C₂₀H₃₄O₄ (338.49). Colorless oil, $[\alpha]_D^{23} = -19.7^\circ$ ($c = 0.172$, CHCl₃). Pharm: Lipoxygenase inhibitor (*in vitro*, IC₅₀ = (38.3±1.3) μmol/L)^[4276]. Source: *Ballota limbata*. Ref: 4276.

**2132 Ballotenic acid**

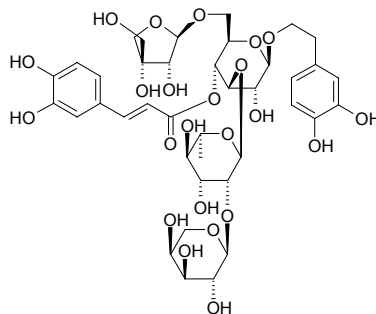
C₂₀H₃₀O₄ (334.46). Colorless oil, $[\alpha]_D^{23} = -0.50^\circ$ ($c = 0.104$, CHCl₃). Pharm: Lipoxygenase inhibitor (*in vitro*, IC₅₀ = (99.6±2.0) μmol/L)^[4276]. Source: *Ballota limbata*. Ref: 4276.

**2133 Ballotenol**

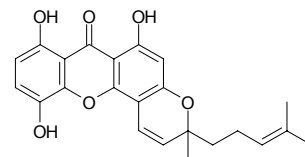
C₂₀H₃₀O₅ (350.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*, HEI BA LUO CAO *Ballota nigra*. Ref: 1521, 2499.

**2134 Ballotetroside**

C₃₉H₅₂O₂₃ (888.84). Pharm: Antioxidant (*in vitro* inhibits LDL peroxidation, Cu²⁺-induced and AAPH-induced)^[5370]; inhibits minimally oxidized LDL-induced cellular toxicity (cultured bovine aortic endothelial cells, BAEC)^[5370]. Source: OU XIA ZHI CAO *Marrubium vulgare* (aerial parts). Ref: 5370.

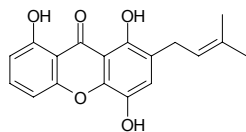
**2135 Bangangxanthone A**

1,5,8-Trihydroxy-6'-methyl-6'-(4-methylpent-3-enyl)-pyrano[2',3':3,4]xanthone C₂₃H₂₂O₆ (394.43). Yellow needle crystals, mp 157–158°C, $[\alpha]_D^{29} = +25^\circ$ ($c = 0.032$, C₃H₆O). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 87.0 μmol/L, control 3-*t*-Butyl-4-hydroxyanisole, IC₅₀ = 42.0 μmol/L)^[5317]. Source: DUO HUA TENG HUANG *Garcinia polyantha* (stem bark). Ref: 5317.

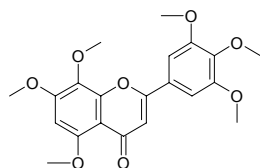


2136 Bangangxanthone B

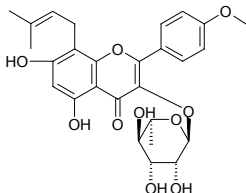
1,4,8-Trihydroxy-2-prenylxanthone C₁₈H₁₆O₅ (312.33). Yellow needle crystals, mp 199~201°C. Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 482.0 μmol/L, mp 199~201°C. Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 482.0 μmol/L, control 3-*t*-Butyl-4-hydroxyanisole, IC₅₀ = 42.0 μmol/L)^[5317]. Source: DUO HUA TENG HUANG *Garcinia polyantha* (stem bark). Ref: 5317.

**2137 Bannamurpanisin**

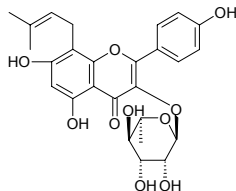
5,7,8,3',4',5'-Hexamethoxyflavone [80324-51-2] C₂₁H₂₂O₈ (402.40). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11, 660.

**2138 Baohuoside I**

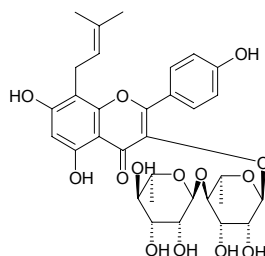
Anhydroicaritin-3-*O*- α -rhamnoside [113558-15-9] C₂₇H₃₀O₁₀ (514.53). Yellow crystalline powder, mp 208~210°C, easily soluble in methanol and ethanol, soluble in acetone. Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 1.043%^[5508]), CHUAN DIAN YIN YANG HUO *Epimedium davidii*, JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: mean content of 3 origins = 0.417%^[5508]), ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content = 0.654%^[5508]), WU SHAN YIN YANG HUO *Epimedium wushanense* (aerial parts: mean content of 2 origins = 0.095%^[5508]), YIN YANG HUO *Epimedium brevicornum* (aerial parts: mean content of 2 origins = 0.089%^[5508]). Ref: 114, 540, 565, 635, 660, 5508.

**2139 Baohuoside II**

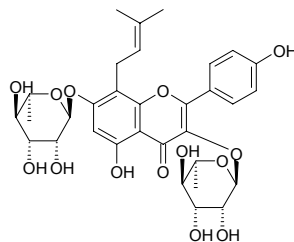
Ikariside A; 3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O*- α -L-rhamnopyranoside [55395-07-8] C₂₆H₂₈O₁₀ (500.51). Yellow crystalline powder, mp 154~156°C, mp 132~134°C, easily soluble in ethanol and methanol. Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 0.790%^[5508]), CHUAN DIAN YIN YANG HUO *Epimedium davidii*, CU MAO YIN YANG HUO *Epimedium acuminatum*, JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: content = 0.055%^[5508]), ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content = 0.145%^[5508]), YIN YANG HUO *Epimedium brevicornum* (aerial parts: content = 0.080%^[5508]). Ref: 2, 112, 514, 565, 599, 660, 5508.

**2140 Baohuoside III**

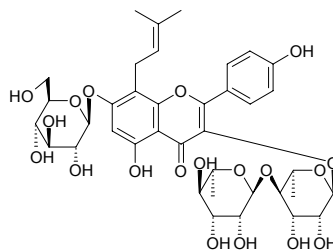
3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O*- α -L-rhamnopyranosyl-(1→4)- α -L-rhamnopyranoside [119708-36-0] C₃₂H₃₈O₁₄ (646.65). Yellow powder, mp 215~220°C, easily soluble in methanol. Source: CHUAN DIAN YIN YANG HUO *Epimedium davidii*, CHUAN DIAN YIN YANG HUO *Epimedium davidii*. Ref: 112, 660.

**2141 Baohuoside IV**

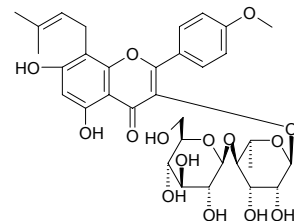
3,5,7,4'-Tetrahydroxy-8-prenylflavone-3,7-*O*- α -L-dirhamnopyranoside [119708-37-1] C₃₂H₃₈O₁₄ (646.65). Yellow powder, easily soluble in methanol. Source: CHUAN DIAN YIN YANG HUO *Epimedium davidii*, CHUAN DIAN YIN YANG HUO *Epimedium davidii*, ROU MAO YIN YANG HUO *Epimedium pubescens*. Ref: 112, 660.

**2142 Baohuoside V**

3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O*- α -L-rhamnopyranosyl-(1→4)- α -L-rhamnopyranosyl-7-*O*- β -D-glucopyranoside [119708-38-2] C₃₈H₄₈O₁₉ (808.79). Yellow powder, easily soluble in methanol. Source: CHUAN DIAN YIN YANG HUO *Epimedium davidii*. Ref: 112.

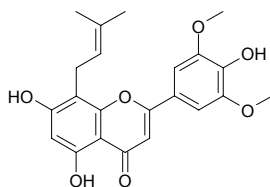
**2143 Baohuoside VII**

3,5,7-Trihydroxy-4'-methoxy-8-prenylflavone-3-*O*- α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranoside [119730-89-1] C₃₃H₄₀O₁₅ (676.68). Yellow powder, easily soluble in methanol and ethanol. Source: CHUAN DIAN YIN YANG HUO *Epimedium davidii*. Ref: 114.

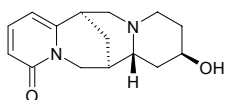


2144 Baohuosu

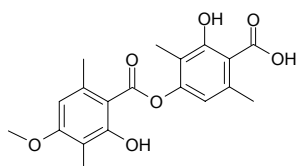
5,7,4'-Trihydroxy-3',5'-dimethoxy-8-prenylflavone [119730-90-4] $C_{22}H_{22}O_7$ (398.42). Yellow crystalline powder, mp 254~257°C. Source: CHUAN DIAN YIN YANG HUO *Epidemium davidii*. Ref: 114.

**2145 Baptifoline**

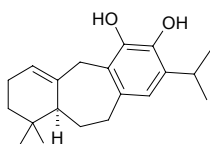
[732-50-3] $C_{15}H_{20}N_2O_2$ (260.34). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2, 1521.

**2146 Barbatic acid**

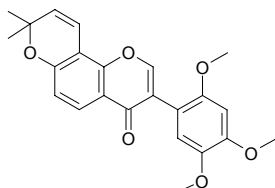
[17636-16-7] $C_{19}H_{20}O_7$ (360.37). mp 191°C, 186°C. Source: SONG LUO *Usnea longissima*, HUAN JIE SONG LUO *Usnea diffracta*. Ref: 6, 660.

**2147 Barbatusol**

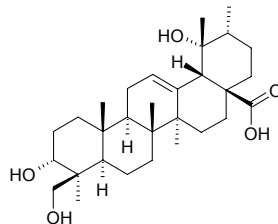
[88515-76-8] $C_{20}H_{28}O_2$ (300.44). Source: GAN XI SHU WEI CAO *Salvia przewalskii*, RAN MAO QIAO RUI HUA *Coleus barbatus*. Ref: 1521, 4538.

**2148 Barbigerone**

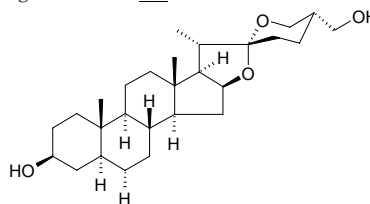
$C_{23}H_{22}O_6$ (394.43). Pharm: Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, $IC_{50} = 27.0\mu\text{mol/L}$, control Chloroquine, $IC_{50} = 0.094\mu\text{mol/L}$, control Quinine, $IC_{50} = 0.209\mu\text{mol/L}$; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, $IC_{50} = 27.3\mu\text{mol/L}$, Chloroquine, $IC_{50} = 0.009\mu\text{mol/L}$, Quinine, $IC_{50} = 0.044\mu\text{mol/L}$)^[3454]. Source: *Milletia usaramensis* ssp. *usaramensis*. Ref: 3454.

**2149 Barbinervic acid**

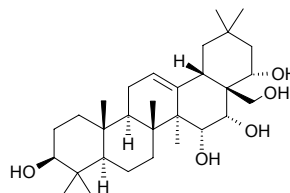
$C_{30}H_{48}O_5$ (488.71). Colorless needles ($\text{CHCl}_3:\text{MeOH} = 6:1$), mp 278~280°C, $[\alpha]_D^{23} = +32.5^\circ$ ($c = 0.25$, pyridine), $[\alpha]_D^{23} = +21.8^\circ$ ($c = 0.12$, CHCl_3), $[\alpha]_D^{20} = +12^\circ$ ($c = 0.40$, CHCl_3). Pharm: Quinone reductase inducer inactive (mouse Hepalc7 hepatoma cells, $CD > 10\mu\text{g/mL}$)^[3434]. Source: *Coussarea brevicaulis*. Ref: 3434.

**2150 Barbourgenin**

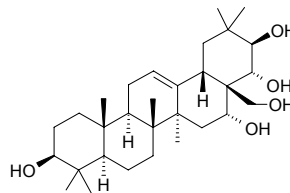
Spirostan-3,27-diol $C_{27}H_{44}O_4$ (432.65). mp 228~230°C. Source: JIAN MA *Agave sisalana*. Ref: 2503.

**2151 Barrigenol A₁**

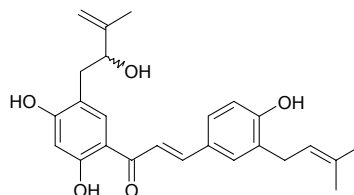
12-Oleanene-3,15,16,22,28-pentol [15448-03-0] $C_{30}H_{50}O_5$ (490.73). mp 300~302°C. Source: CHA ZI XIN *Camellia oleifera*. Ref: 6.

**2152 Barringtogenol C**

Theasapogenol B [13844-01-4] $C_{30}H_{50}O_5$ (490.73). mp 326~330°C (dec). Source: RI BEN QI YE SHU *Aesculus turbinata*. Ref: 6, 660.

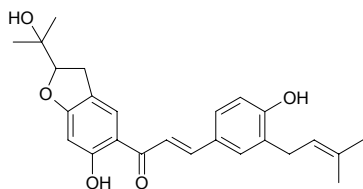
**2153 Bartericin A**

(-)-3-(3,3-Dimethylallyl)-5'-(2-hydroxy-3-methylbut-3-enyl)-4,2',4'-trihydroxychalcone $C_{25}H_{28}O_5$ (408.50). Yellow amorphous powder (Ether-EtOAc), mp 138~140°C, $[\alpha]_D^{25} = -107^\circ$ ($c = 0.015$, MeOH). Source: *Dorstenia barteri* var. *subtriangularis* (twig). Ref: 3765.

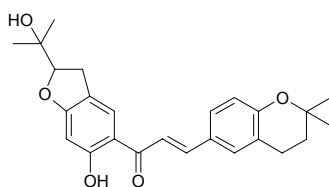


2154 Bartericin B

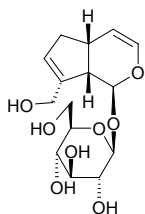
(+)-3-(3,3-Dimethylallyl)-4',5'-[2''-(1-hydroxy-1-methylethyl)-dihydrofurano]-4,2'-dihydroxychalcone C₂₅H₂₈O₅ (408.50). Yellow amorphous powder (ether–EtOAc), mp 184–185°C, [α]_D²⁵ = +125° (c = 0.015, MeOH). Source: *Dorstenia barteri* var. *subtriangularis* (twig). Ref: 3765.

**2155 Bartericin C**

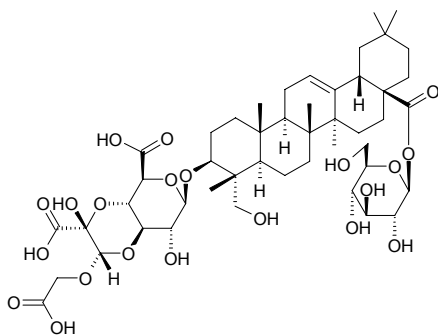
3,4-(6'',6''-Dimethyldihydropyrano)-4',5'-[2''-(1-hydroxy-1-methylethyl)-dihydrofurano]-2'-hydroxychalcone C₂₅H₂₈O₅ (408.50). Yellow oil, [α]_D²⁵ = +301° (c = 0.033, MeOH). Source: *Dorstenia barteri* var. *subtriangularis* (twig). Ref: 3765.

**2156 Bartsioside**

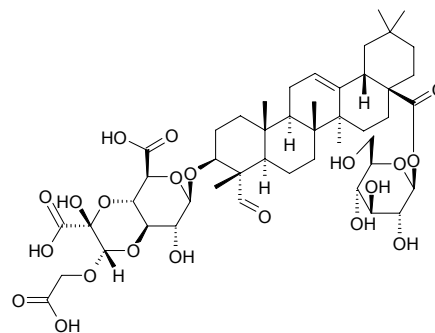
C₁₅H₂₂O₈ (330.34). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2448.

**2157 Basellasaponin A**

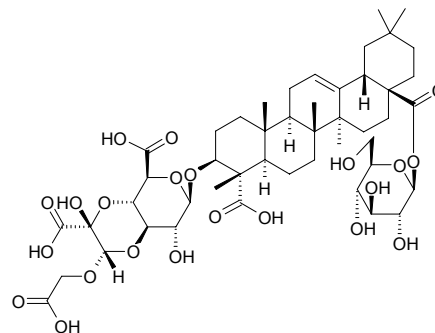
C₄₇H₇₀O₂₁ (971.07). Colorless fine crystals (MeOH–H₂O), mp 228–230°C, [α]_D²⁴ = +30.1° (c = 0.1, MeOH). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

**2158 Basellasaponin B**

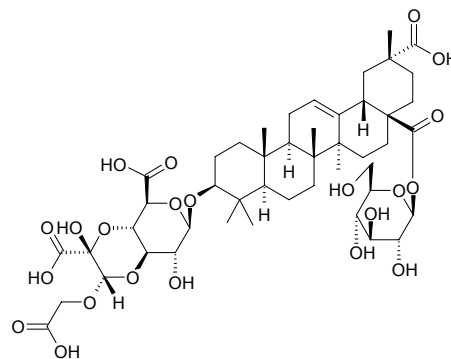
C₄₇H₆₈O₂₁ (969.05). Colorless fine crystals (MeOH–H₂O), mp 226–228°C, [α]_D²⁶ = +57.4° (c = 0.1, MeOH). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

**2159 Basellasaponin C**

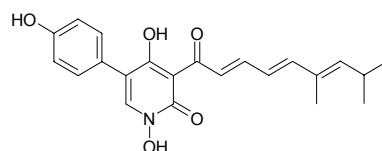
C₄₇H₆₈O₂₂ (985.05). Colorless fine crystals (MeOH–H₂O), mp 230–232°C, [α]_D²⁵ = +42.1° (c = 0.1, MeOH). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

**2160 Basellasaponin D**

C₄₇H₆₈O₂₂ (985.05). Colorless fine crystals (MeOH–H₂O), mp 215–217°C, [α]_D²⁵ = +24.0° (c = 0.1, MeOH). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

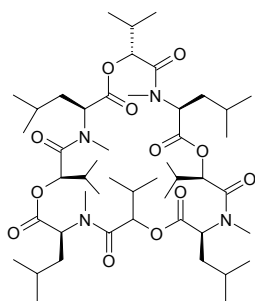
**2161 Bassianin**

[54278-73-8] C₂₃H₂₅NO₅ (395.46). Source: BAI JIANG CAN *Bombyx mori*. Ref: 6.

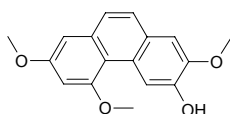


2162 Bassianolide

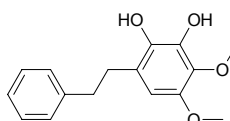
$C_{48}H_{84}N_4O_{12}$ (909.22). Source: BAI JIANG CAN *Bombyx mori*. Ref: 660.

**2163 Batatasin I**

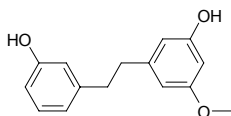
[51415-00-0] $C_{17}H_{16}O_4$ (284.31). Pharm: Controls dormancy of common yam. Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], JING JI SHU YU *Dioscorea dumetorum*. Ref: 658, 5501.

**2164 Batatasin II**

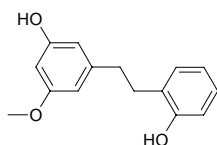
$C_{16}H_{18}O_4$ (274.32). Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. Ref: 660.

**2165 Batatasin III**

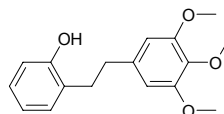
Batatacin III $C_{15}H_{16}O_3$ (244.29). White powder. Pharm: Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (65.5 \pm 2.7)\mu\text{mol/L}$, $p < 0.01$; $300\mu\text{mol/L}$ control Ketotifen fumarate, $\text{InRt} = (72.5 \pm 0.9)\mu\text{mol/L}$, $p < 0.01$)^[5022]. Source: BAI JI *Bletilla striata*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 660, 5022.

**2166 Batatasin IV**

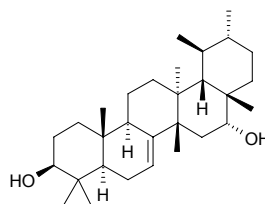
[60347-67-3] $C_{15}H_{16}O_3$ (244.29). Pharm: Controls dormancy of common yam; antifungal (*Cladosporium cladosporioides*). Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], YUAN SHU YU *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*]. Ref: 658, 5501.

**2167 Batatasin V**

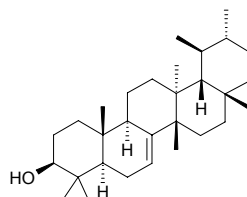
$C_{17}H_{20}O_4$ (288.35). Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. Ref: 660.

**2168 Bauer-7-ene-3 β ,16 α -diol**

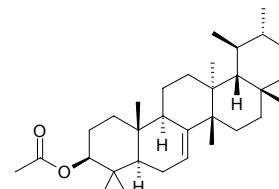
$C_{30}H_{50}O_2$ (442.73). Pharm: Antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD < 10mm, Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 10~12mm; Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm)^[5315]. Source: MAO LIE FENG DOU CAI *Petasites tricholobus* (rhizome). Ref: 5315.

**2169 Bauerenol**

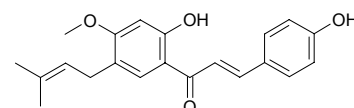
Ilexol [6466-94-0] $C_{30}H_{50}O$ (426.73). mp 207~208°C. Source: KUAN DONG HUA *Tussilago farfara*, QIAO MU ZI ZHU *Callicarpa arborea*, SHA TANG MU *Acronychia pedunculata*, WU MU XIE *Diospyros ebenum*, ZI JIN NIU *Ardisia japonica*. Ref: 6.

**2170 Bauerenyl acetate**

$C_{32}H_{52}O_2$ (468.77). Colorless lumpish crystals. Source: HONG ZU HAO *Artemisia rubripes*, LIAN ZHU TENG *Alyxia sinensis*, ZHAI YE BAN FENG HE *Pterospermum lanceaeifolium*. Ref: 660, 2249.

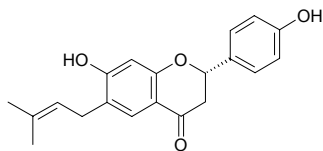
**2171 Bavachalcone**

$C_{21}H_{22}O_4$ (338.41). Source: BU GU ZHI *Psoralea corylifolia* (dried ripe fruit; mean content of 7 origins = 0.670%^[5508]). Ref: 2, 545, 5508.

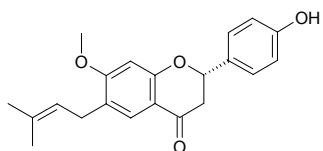


2172 Bavachin

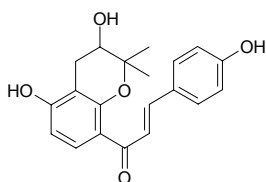
Corylifolin [19879-32-4] C₂₀H₂₀O₄ (324.38). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]. **Source:** BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: mean content of 7 origins = 1.22%^[5508]), GOU SHU *Broussonetia papyrifera*^[3090]. **Ref:** 2, 545, 3090, 5038, 5508.

**2173 Bavachinin**

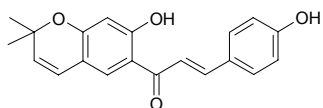
4'-Hydroxy-7-methoxy-6-prenylflavanone [19879-30-2] C₂₁H₂₂O₄ (338.41). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2, 545.

**2174 Bavachromanol**

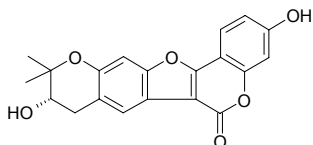
[74061-77-1] C₂₀H₂₀O₅ (340.38). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2, 545.

**2175 Bavachromene**

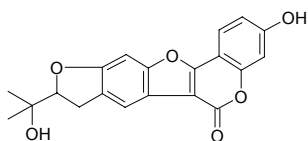
[41743-38-8] C₂₀H₁₈O₄ (322.36). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2, 545.

**2176 Bavacoumestan A**

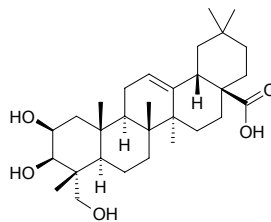
[129385-63-3] C₂₀H₁₆O₆ (352.35). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2, 545.

**2177 Bavacoumestan B**

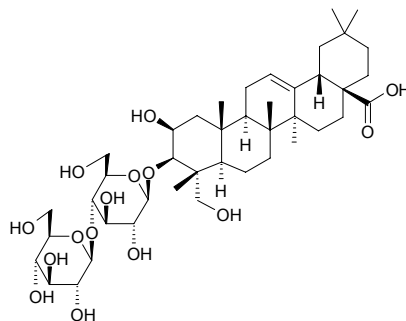
[129385-64-4] C₂₀H₁₆O₆ (352.35). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2, 545.

**2178 Bayogenin acid**

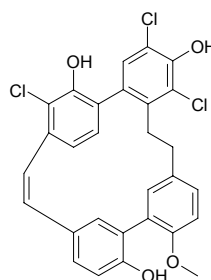
C₃₀H₄₈O₅ (488.71). White powder, mp 337~340°C. **Source:** *Drypetes molundana* (stem). **Ref:** 3989.

**2179 Bayogenin 3-O-cellobioside**

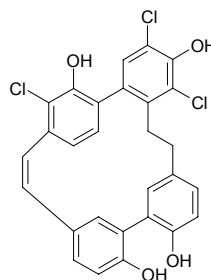
C₄₂H₆₈O₁₅ (813.00). **Pharm:** Molluscicide (snails, LD₁₀₀ = 0.012 mg/mL). **Source:** SHI ER RUI SHANG LU *Phytolacca dodecandra*. **Ref:** 658.

**2180 Bazzanin L**

1-Methyl ether of 10,12,10"-trichloroisoplagiochin C C₂₉H₂₁Cl₃O₄ (539.85). [α]_D²⁰ = +126.5° (c = 0.2, MeOH). **Source:** WAN QU ZHI YE TAI *Lepidozia incurvata*. **Ref:** 3456.

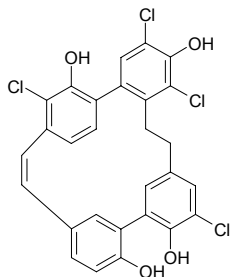
**2181 Bazzanin M**

10,12,10"-Trichloroisoplagiochin C C₂₈H₁₉Cl₃O₄ (525.82). [α]_D²⁰ = +95° (c = 0.2, MeOH). **Source:** WAN QU ZHI YE TAI *Lepidozia incurvata*. **Ref:** 3456.

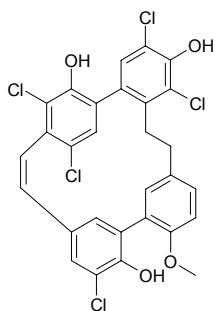


2182 Bazzanin N

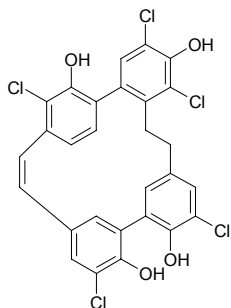
2,10,12,10'-Tetrachloroisoplagiochin C₂₈H₁₈Cl₄O₄ (560.27). [α]_D²⁰ = +90° (c = 0.1, MeOH). Source: WAN QU ZHI YE TAI *Lepidozia incurvata*. Ref: 3456.

**2183 Bazzanin O**

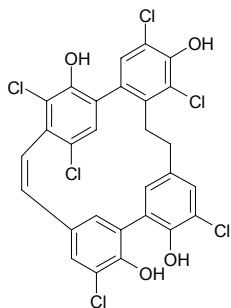
10,12,6',10',14'-Pentachloroisoplagiochin C₂₉H₁₉Cl₅O₄ (608.74). [α]_D²⁰ = +54° (c = 0.2, MeOH). Source: WAN QU ZHI YE TAI *Lepidozia incurvata*. Ref: 3456.

**2184 Bazzanin P**

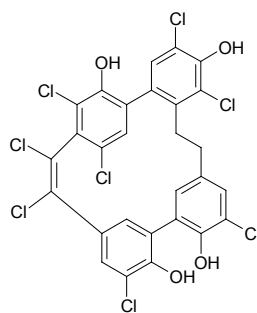
2,10,12,6',10'-Pentachloroisoplagiochin C₂₈H₁₇Cl₅O₄ (594.71). [α]_D²⁰ = +225° (c = 0.7, MeOH). Source: WAN QU ZHI YE TAI *Lepidozia incurvata*. Ref: 3456.

**2185 Bazzanin Q**

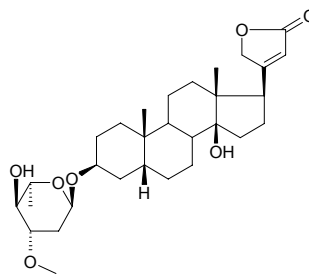
2,10,12,6',10',14'-Hexachloroisoplagiochin C₂₈H₁₆Cl₆O₄ (629.16). [α]_D²⁰ = +120° (c = 1.2, MeOH). Source: WAN QU ZHI YE TAI *Lepidozia incurvata*. Ref: 3456.

**2186 Bazzanin R**

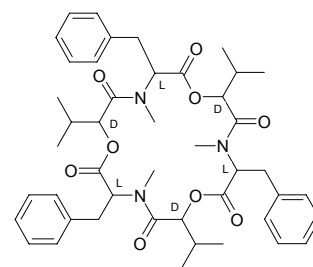
2,10,12,6',7',8',10',14'-Octachloroisoplagiochin C₂₈H₁₄Cl₈O₄ (698.05). Source: WAN QU ZHI YE TAI *Lepidozia incurvata*. Ref: 3456.

**2187 Beaumontoside**

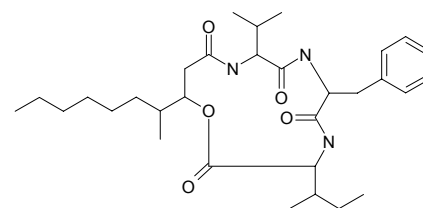
Digitoxigenin 3-O-oleandroside [31087-87-3] C₃₀H₄₆O₇ (518.70). mp 202–203°C. Pharm: Cardiotonic (anesthetic cat). Source: QING MING HUA *Beaumontia grandiflora*. Ref: 1, 6.

**2188 Beauvericin**

Beauvericin [26048-05-5] C₄₅H₅₇N₃O₉ (783.97). mp 93–94°C. Source: BAI JIANG CAN *Bombyx mori*. Ref: 6.

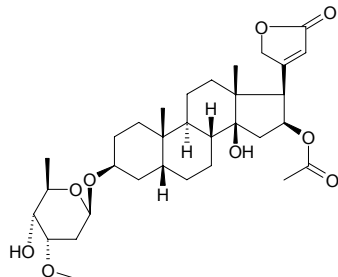
**2189 Beauverilide A**

C₃₁H₄₉N₃O₅ (543.75). Source: BAI JIANG CAN *Bombyx mori*. Ref: 660.

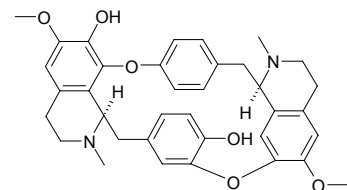


2190 Beauwalloside

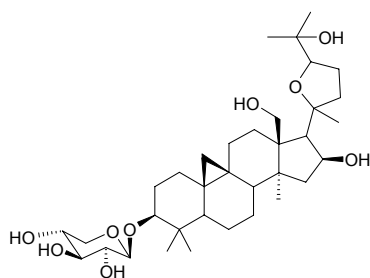
Oleandrigenin 3-*O*-*L*-cymaroside [31087-94-2] C₃₂H₄₈O₉ (576.73). mp 223–226°C. **Pharm:** Cardiotonic (anesthetic cat). **Source:** QING MING HUA *Beaumontia grandiflora*. **Ref:** 1, 6.

**2191 L-Bebeerine**

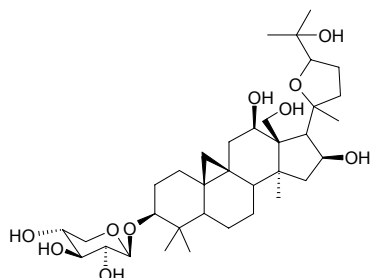
L-Curine C₃₆H₃₈N₂O₆ (594.71). Flowery crystals (methanol), mp 213°C; mp 221°C (vacuum); rectangular prismatic crystals (benzene), including one molecule of benzene, mp 161°C, [α]_D = –328° (pyridine); colorless acicular crystals (methanol), mp 213–214°C. **Pharm:** Antimalarial; cardiotonic; non-polarizing muscle relaxant (methyl iodide 0.07–0.20mg/kg, the action lasts 30–60min). **Source:** XI SHENG TENG *Cissampelos pareira*, JIN SHU HUANG YANG *Buxus sempervirens*. **Ref:** 6, 661.

**2192 Beesioside A**

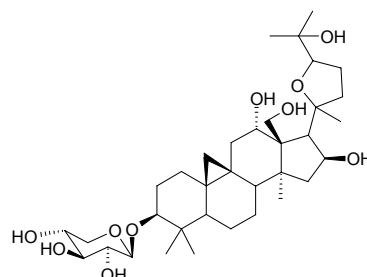
(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3β,16β,18,-25-tetraol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₉ (622.85). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

**2193 Beesioside B**

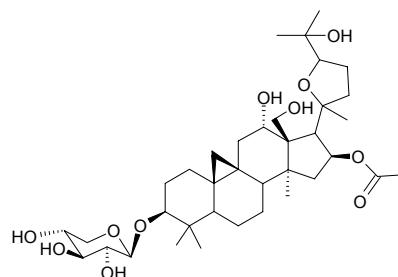
(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3β,12β,16β,18,25-pentaol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₁₀ (638.83). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

**2194 Beesioside C**

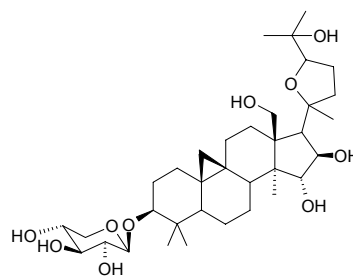
(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3β,12α,16β,18,25-pentaol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₁₀ (638.85). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

**2195 Beesioside D**

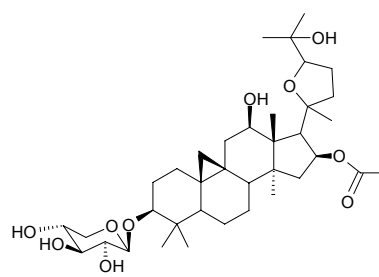
(20*S**,24*R**)-16β-Acetoxy-20,24-epoxy-9,19-cyclolanostane-3β,12α,18,25-tetraol-3-*O*-β-*D*-xylopyranoside C₃₇H₆₀O₁₁ (680.88). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

**2196 Beesioside E**

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3β,15α,16β,18,25-pentaol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₁₀ (638.85). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

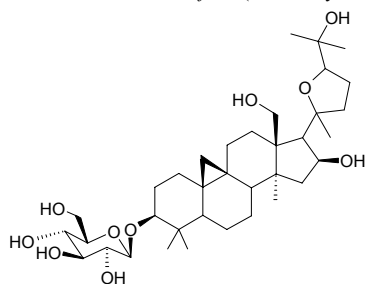
**2197 Beesioside F**

(20*S**,24*R**)-16β-Acetoxy-20,24-epoxy-9,19-cyclolanostane-3β,12β,25-triol-3-*O*-β-*D*-xylopyranoside C₃₇H₆₀O₁₀ (664.88). **Source:** TIE PO LUO *Beesia calthaeifolia* (whole herb). **Ref:** 3099.

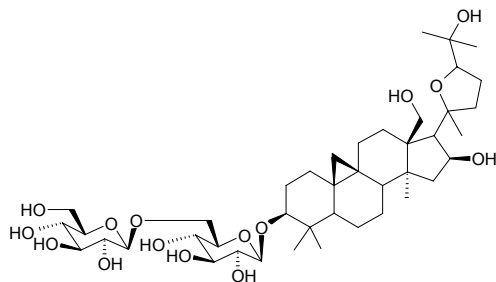


2198 Beesioside G

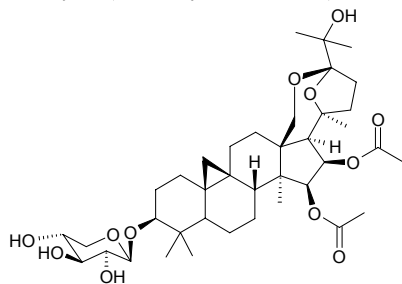
20 ξ_1 ,24 ξ_2 -Epoxy-9,19-cyclolanostane-3 β ,16 β ,18,25-tetraol-3-*O*- β -D-glucopyranoside C₃₆H₆₀O₁₀ (652.87). Amorphous powder, mp 200–204°C (CHCl₃-MeOH), [α]_D²⁰ = +18.3° (c = 0.11, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.00071%dw). Ref: 4605.

**2199 Beesioside H**

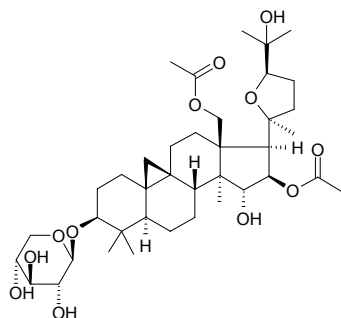
20 ξ_1 ,24 ξ_2 -Epoxy-9,19-cyclolanostane-3 β ,16 β ,18,25-tetraol-3-*O*-[β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside C₄₂H₇₀O₁₅ (815.02). Amorphous powder, mp 190–194°C (CHCl₃-MeOH), [α]_D²⁰ = +23.8° (c = 0.08, MeOH). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.00071%dw). Ref: 4605.

**2200 Beesioside I**

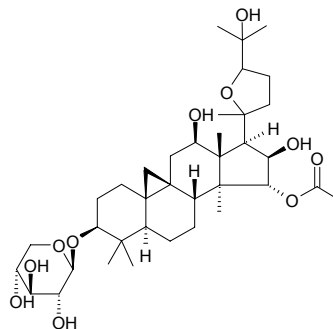
C₃₉H₆₀O₁₂ (720.91). Amorphous powder, mp 260–262°C (EtOAc-MeOH), [α]_D²⁰ = -7.9° (c = 0.14, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.13%dw). Ref: 4605.

**2201 Beesioside II**

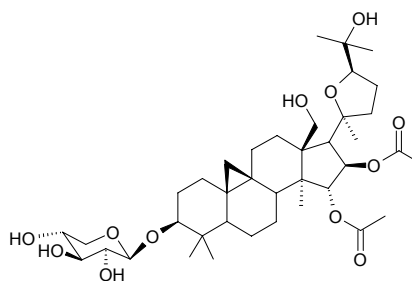
C₃₉H₆₂O₁₂ (722.92). Source: TIE PO LUO *Beesia calthaeifolia*. Ref: 660.

**2202 Beesioside III**

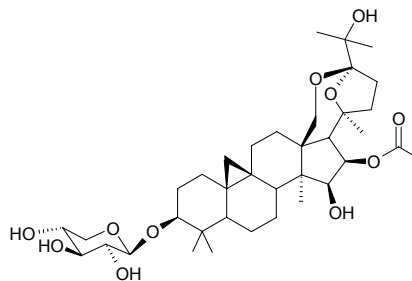
C₃₇H₆₀O₁₁ (680.88). Source: HUANG SAN QI *Souliea vaginata* (Rhizome), TIE PO LUO *Beesia calthaeifolia*. Ref: 660.

**2203 Beesioside J**

(20*S*,24*R*)-15 α ,16 β -Diacetoxy-20,24-epoxy-9,19-cyclolanostane-3 β ,18,25-triol-3-*O*- β -D-xylopyranoside C₃₉H₆₂O₁₂ (722.92). Colorless prisms, mp 198–202°C (EtOAc-MeOH), [α]_D²⁰ = +15.1° (c = 0.16, EtOAc:MeOH, 3:7). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.041%dw). Ref: 4605.

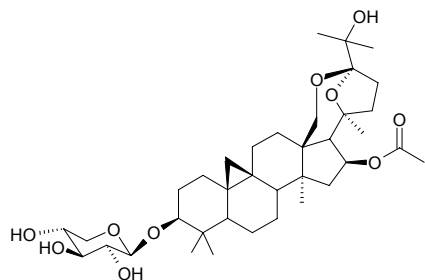
**2204 Beesioside K**

(20*S*,24*S*)-16 β -Acetoxy-18,24;20,24-diepoxy-9,19-cyclanostane-3 β ,15 β ,25-triol-3-*O*- β -D-xylopyranoside C₃₇H₅₈O₁₁ (678.87). Amorphous powder, mp 278–282°C (EtOAc-MeOH), [α]_D²⁰ = -12.0° (c = 0.5, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.0043%dw). Ref: 4605.

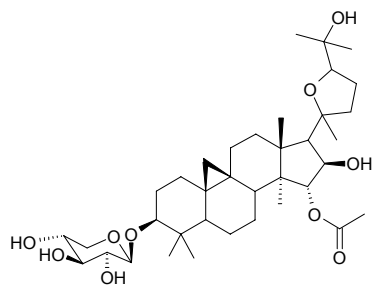


2205 Beesioside L

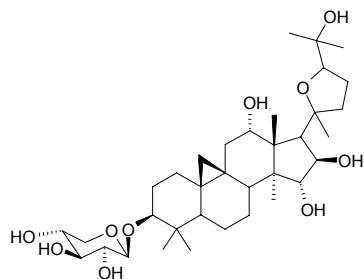
(20*S*,24*S*)-16β-Acetoxy-18,24;20,24-diepoxy-9,19-cyclanostane-3β,25-diol-3-*O*-β-*D*-xylopyranoside C₃₇H₅₈O₁₀ (662.87). Amorphous powder, mp 250~254°C (EtOAc-MeOH), [α]_D²⁰ = -2.1° (c = 0.09, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.00057%dw). Ref: 4605.

**2206 Beesioside M**

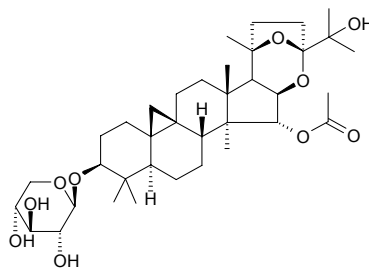
20ξ₁,24ξ₂-Epoxy-15*R*-acetoxy-9,19-cyclolanostane-3β,16β,25-triol-3-*O*-β-*D*-xylopyranoside C₃₇H₆₀O₁₀ (664.88). Amorphous powder, mp 158~164°C (CHCl₃-MeOH), [α]_D²⁰ = -3.3° (c = 0.06, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.033%dw). Ref: 4605.

**2207 Beesioside N**

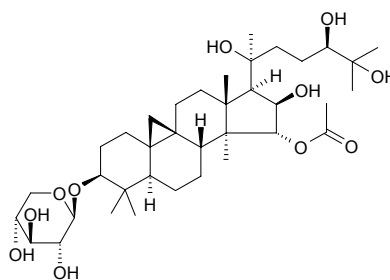
20ξ₁,24ξ₂-Epoxy-9,19-cyclolanostane-3β,12α,15α,16β,25-pentaol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₁₀ (638.85). Amorphous powder, mp 252~256°C (CHCl₃-MeOH), [α]_D²⁰ = +14.2° (c = 0.19, CHCl₃:MeOH, 1:1). Source: TIE PO LUO *Beesia calthaeifolia* (rhizome: yield = 0.0043%dw). Ref: 4605.

**2208 Beesioside O**

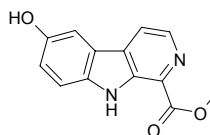
C₃₇H₅₈O₁₀ (662.87). White amorphous powder, mp 196~200°C (CHCl₃-MeOH), [α]_D²⁰ = -11.3° (c = 0.12, CHCl₃:MeOH = 1:1) Pharm: Immunosuppressant (mus T-cell, *in vivo*, inhibits cell proliferation induces by ConA); inhibits formation of micrangium (experiment by Chicken-embryo Allantoic bladder Membrane, CAM); inhibits skeletogenous cells (IC₅₀ = 32.78μg/mL); alkaline phosphatase inhibitor. Source: TIE PO LUO *Beesia calthaeifolia*. Ref: 2242.

**2209 Beesioside P**

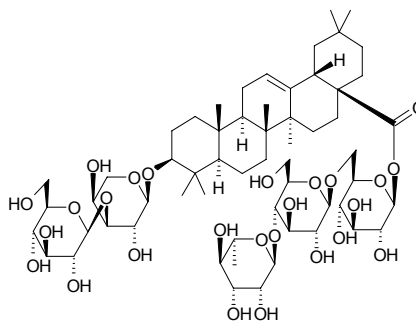
C₃₇H₆₂O₁₁ (682.90). White amorphous powder, mp 274~276°C (CHCl₃-MeOH), [α]_D²⁰ = +2.6° (c = 0.12, MeOH) Pharm: Calcium channel receptor inhibitor (InRt = 79.55%). Source: TIE PO LUO *Beesia calthaeifolia*. Ref: 2242.

**2210 Begonanline**

C₁₃H₁₀N₂O₃ (242.24). Yellow syrup. Source: NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.

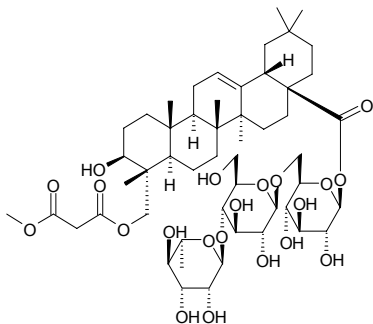
**2211 Begoniifolide A**

3-*O*-β-*D*-Glucopyranosyl(1→3)-α-*L*-arabinopyranosyl oleanolic acid 28-*O*-α-*L*-rhamnopyranosyl(1→4)-β-*D*-glucopyranosyl(1→6)-β-*D*-glucopyranoside C₅₉H₉₆O₂₆ (1121.41). white powder. Source: LUAN YE YIN LIAN HUA *Anemone begoniifolia*. Ref: 862.

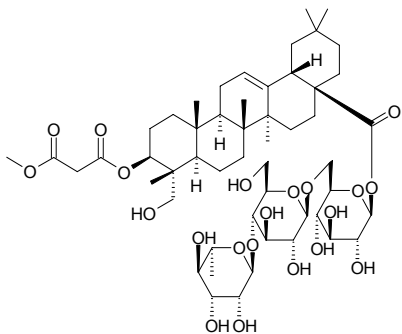


2212 Begoniifolide B

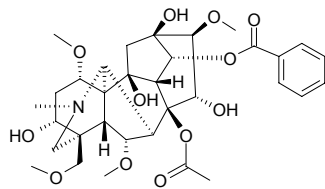
23-*O*-Methyl malonyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₂H₈₂O₂₁ (1043.22). white powder, mp 175–178°C (dec). Source: LUAN YE YIN LIAN HUA *Anemone begoniifolia*. Ref: 862.

**2213 Begoniifolide C**

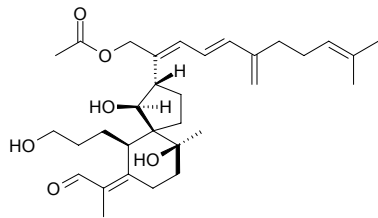
3-*O*-Methyl malonyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₂H₈₂O₂₁ (1043.22). white powder, mp 168–170°C (dec). Source: LUAN YE YIN LIAN HUA *Anemone begoniifolia*. Ref: 862.

**2214 Beiwutine**

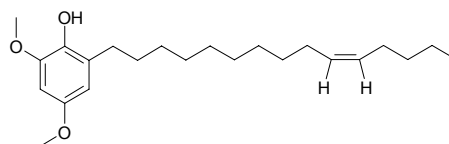
[76918-93-9] C₃₃H₄₅NO₁₂ (644.73). Pharm: Analgesic; LD₅₀ (mus, ip) = 0.42mg/kg. Source: BEI WU TOU *Aconitum kusnezoffii*. Ref: 1521, 5501.

**2215 Belamcandal**

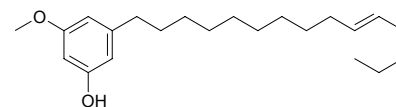
[138501-57-2] C₃₂H₄₈O₆ (528.73). Vitreous oil, [α]_D²⁴ = +146.8° (c = 1.0, methanol). Pharm: Irritant (throat mucosa). Source: SHE GAN *Belamcanda chinensis*, HU DIE HUA *Iris japonica*. Ref: 1090.

**2216 Belamcandol A**

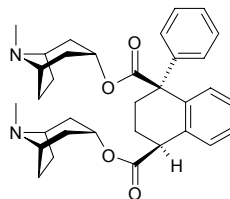
Belamcandaphenol [137786-93-7] C₂₃H₃₈O₃ (362.55). Oil. Pharm: 5-Lipoxygenase inhibitor (IC₅₀ = 0.6 μ mol/L). Source: SHE GAN *Belamcanda chinensis*. Ref: 1021.

**2217 Belamcandol B**

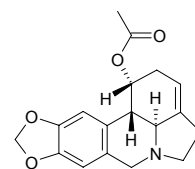
C₂₂H₃₆O₂ (332.53). Source: SHE GAN *Belamcanda chinensis*. Ref: 660.

**2218 Belladonnine**

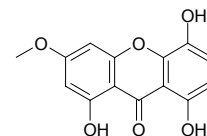
C₃₄H₄₂N₂O₄ (542.72). Pharm: Local anesthetic. Source: LANG DANG ZI *Hyoscyamus niger*, DIAN QIE *Atropa belladonna*, YI PAO NANG CAO *Physochlaina alaica*. Ref: 658.

**2219 Bellamarine**

Belamarine [14383-07-4] C₁₈H₁₉NO₄ (313.36). Pharm: Cytotoxic (P₃₈₈ *in vitro*); uterine stimulant. Source: DA HUA YAO WEN SHU LAN *Crinum macrantherum*, GU TING HUA ZA JIAO ZHONG *Amaryllis belladonna* [hybrida]. Ref: 658.

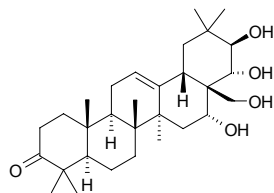
**2220 Bellidifodin**

[2798-25-6] C₁₄H₁₀O₆ (274.23). Yellow acicular crystals, mp 254–256°C. Pharm: Antihepatotoxin; monoamine oxidase A inhibitor; mutagen (*Salmonella typhimurium*); AChE inhibitor (MIC = 0.01 μ g = 0.03nmol, control Galanthamine MIC = 0.01 μ g = 0.03nmol, Physostigmine MIC = 0.005 μ g = 0.002nmol, Huperzine A MIC = 0.002 μ g = 0.0008nmol)^[5039]. Source: RU BAI LONG DAN *Gentiana lactea*, QI RUI TA ZHANG YA CAI *Swertia chirata*, TIAN YE LONG DAN *Gentiana campestris* (leaf). Ref: 634, 658, 5039.

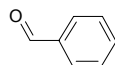


2221 Bemeuxin

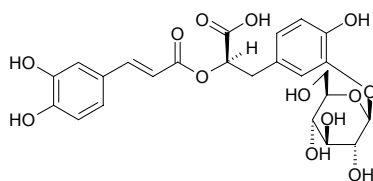
$C_{30}H_{48}O_5$ (488.71). Colorless columnar crystals (MeOH), mp 295–296°C, $[\alpha]_D^{13} = +13.8^\circ$ ($c = 0.52$, pyridine). Source: YAN JIN CAI *Berneuxia tibetica*. Ref: 286.

**2222 Benzaldehyde**

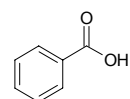
Phenylmethanal [100-52-7] C_7H_6O (106.13). mp -26°C , bp $179^\circ\text{C}/751\text{mmHg}$. Source: AN XI XIANG *Styrax benzoin*, BA DAN XING REN *Prunus amygdalus*, BAI MEI HUA *Prunus mume*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], KONG SHI CHUN *Ulva pertusa*, SHUI SONG *Codium fragile*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6, 660.

**2223 Benzenepropanoic acid, 8-[(7'-(3',4'-dihydroxy-phenyl)-9'-oxo-7'-propenyl]oxy}-3-(1''-O-β-D-glucopyranosyl)-4-hydroxy-[R-(E)]**

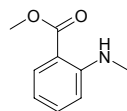
$C_{24}H_{26}O_{13}$ (522.47). Brown-yellow powder. Pharm: Anti-HIV^[4586]. Source: GAN XI SHU WEI CAO *Salvia przewalskii* (root). Ref: 4586.

**2224 Benzoic acid**

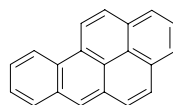
Phenylformic acid [65-85-0] $C_7H_6O_2$ (122.12). Pharm: Antifungal; choleric; platelet aggregation inhibitor (washed rabbit platelets, 150μg/mL, 100μmol/L AA-induced, InRt = 4.5%, control 50μmol/L Aspirin, InRt = 100%; 10μg/mL collagen-induced, InRt = 6.2%, 100μmol/L Aspirin, InRt = 4.9%; 0.1U/mL thrombin-induced, InRt = 72.7%, 100μmol/L Aspirin, InRt = 1.7%; 2ng/mL PAF-induced, InRt = 35.0%, 100μmol/L Aspirin, InRt = 2.1%)^[5427]. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (dried root: mean content = 0.048%^[5508]), BAN LAN GEN *Isatis indigotica* (dried root: mean content of 5 origins = 0.00060%^[5508]), CHI SHAO *Paeonia lactiflora* wild (dried root: mean content = 0.1778%^[5508]), GUAN ZI YU PAN *Uvaria angolensis*, JIAO ZHI HUANG TAN *Dalbergia cochinchinensis*, QI LIN JIE *Daemonorops draco* (balsam: mean content = 2.54%^[5508]), QIAO HUANG TAN *Dalbergia spruceana*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), TAI WAN FU RONG *Hibiscus taiwanensis*, TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.028%)^[4742], ZANG HONG HUA *Crocus sativus* (pollen). Ref: 2, 594, 658, 660, 2529, 4233, 4502, 4742, 5427, 5508.

**2225 Benzoic acid 2-methyl amino methyl ester**

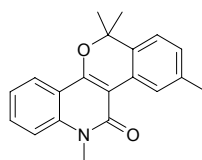
$C_9H_{11}NO_2$ (165.19). Source: JU PI *Citrus reticulata* Ref: 660.

**2226 3,4-Benzopyrene**

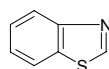
6,7-Benzopyrene [50-32-8] $C_{20}H_{12}$ (252.32). mp $176.5\sim 177.5^\circ\text{C}$, bp $310\sim 312^\circ\text{C}/10\text{mmHg}$. Source: XIANG RI KUI ZI *Helianthus annuus*. Ref: 6.

**2227 Benzosimuline**

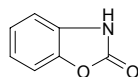
[198336-58-2] $C_{20}H_{19}NO_2$ (305.38). Colorless oil. Pharm: Platelet aggregation inhibitor (rbt, caused by thrombin, arachidonic acid, collagen and PAF, EC = 100μg/mL); DNA isomerase inhibitor; cytotoxic (high activity). Source: YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 1097, 2176.

**2228 Benzothiazole**

C_7H_5NS (135.19). Source: HONG HUA *Carthamus tinctorius*. Ref: 660.

**2229 2-Benzoxazolinone**

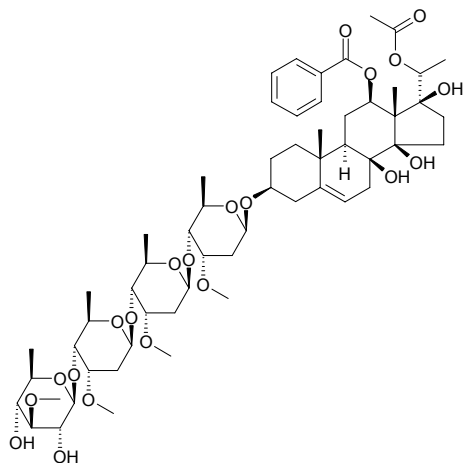
[59-49-4] $C_7H_5NO_2$ (135.12). Pharm: Antileishmanial (*Leishmania* sp., *in vitro*, IC₅₀ = 40μg/mL); Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2080, 2107.



2230 12-O-Benzoyl-20-O-acetylsarcostin-3-O-β-D-thevetopyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside

C₅₈H₈₈O₂₁ (1121.34). Amorphous powder, [α]_D²⁴ = +28.6° (c = 1.28, MeOH).

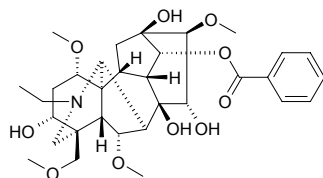
Source: *Araujia sericifera* (root). Ref: 4377.



2231 Benzoylaconine

C₃₂H₄₅NO₁₀ (603.72). Source: BEI WU TOU *Aconitum kusnezoffii*, DUO LIE WU TOU *Aconitum polyschistum*, TIE BANG CHUI *Aconitum pendulum*.

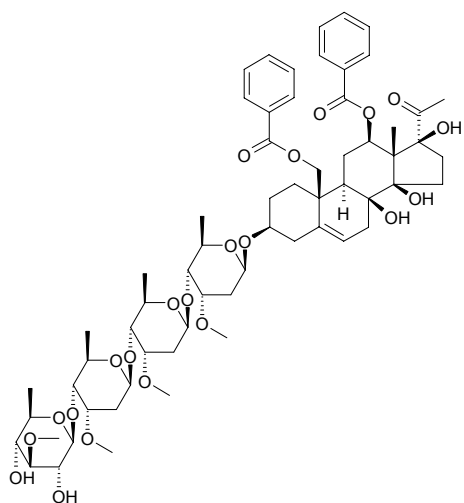
Ref: 660.



2232 12-O-Benzoyl-19-benzoyloxydeacetylmetaplexigenin-3-O-β-D-thevetopyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside

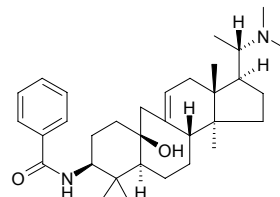
C₆₃H₈₈O₂₂ (1197.39). Amorphous powder, [α]_D²² = +15.7° (c = 1.44, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.



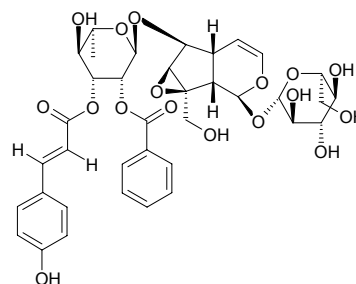
2233 N-Benzoylbuxahyrcanine

C₃₃H₅₀N₂O₂ (506.78). Colorless amorphous powder, mp 239.7°C, [α]_D²⁹ = +15° (c = 0.136, CHCl₃). Pharm: AChE inhibitor (*in vitro*, IC₅₀ > 1000 μmol/L; control Eserine, IC₅₀ = 0.041 μmol/L)^[4694]; BChE inhibitor (*in vitro*, IC₅₀ = 310.6 μmol/L; control Eserine, IC₅₀ = 0.0857 μmol/L)^[4694]. Source: HE KA NI YA HUANG YANG *Buxus hyrcana* (leaf). Ref: 4694.



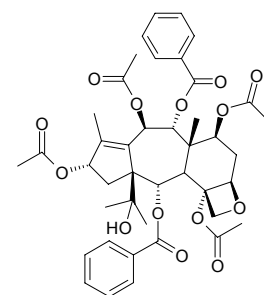
2234 6-O-α-L-(2''-O-Benzoyl,3''-O-trans-p-coumaroyl)rhamnopyranosylcatalpol

C₃₇H₄₂O₁₇ (758.74). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.



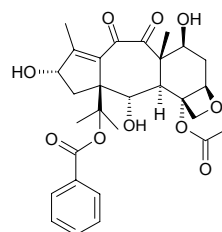
2235 9-O-Benzoyl-9-de-O-acetyl-11(15→1)-abeo-baccatin VI

C₄₂H₄₈O₁₄ (776.84). [α]_D = -32.5° (CHCl₃). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.



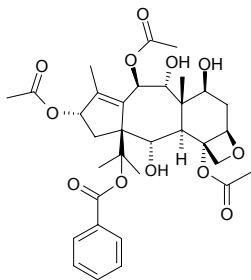
2236 15-Benzoyl-10-deacetyl-2-debenzoyl-10-dehydro-abeo-baccatin III

C₂₉H₃₄O₁₀ (542.59). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

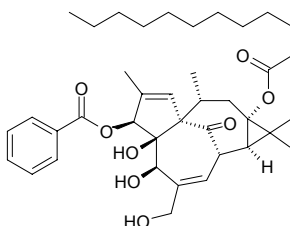


2237 15-Benzoyl-2-debenzoyl-7,9-dideacetyl-abeo-baccatin VI

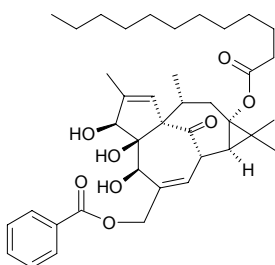
$C_{33}H_{42}O_{12}$ (630.70). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**2238 3-O-Benzoyl-13-O-dodecanoateingenol**

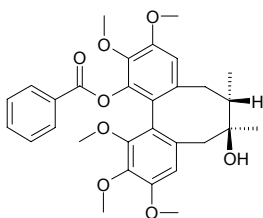
$C_{39}H_{54}O_8$ (650.86). Pharm: Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at 10 μ g/mL compound results in > 60% cell cleavage arrest)^[4368]. Source: GAN SUI *Euphorbia kansui*. Ref: 4368.

**2239 20-O-Benzoyl-13-O-dodecanoateingenol**

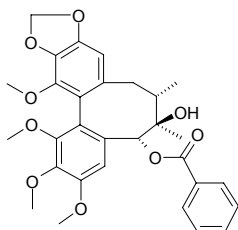
$C_{39}H_{54}O_8$ (650.86). Source: GAN SUI *Euphorbia kansui*. Ref: 4368.

**2240 Benzoylgomisin H**

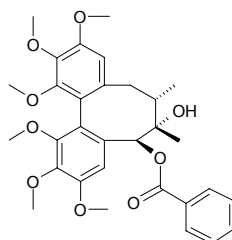
$C_{30}H_{34}O_8$ (522.60). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**2241 Benzoylgomisin P**

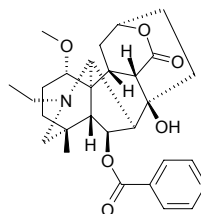
$C_{30}H_{32}O_9$ (536.58). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**2242 Benzoylgomisin Q**

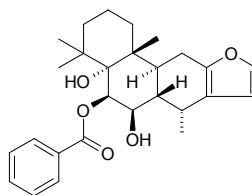
$C_{31}H_{36}O_9$ (552.63). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**2243 Benzoylheteratisine**

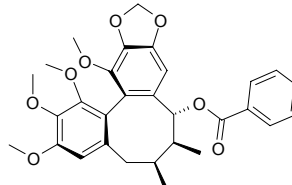
$C_{29}H_{37}NO_6$ (495.62). Source: GAN QING WU TOU *Aconitum tanguticum*. Ref: 660.

**2244 6 β -Benzoyl-7 β -hydroxyvouacapen-5 α -ol**

Isovouacapenol C $C_{27}H_{34}O_5$ (438.57). Colorless needles, mp 193~195°C (CHCl₃-MeOH), $[\alpha]_D^{30} = +18.4$ ($c = 0.977$, CHCl₃); Colorless crystals, mp 116~118°C (petroleum ether), $[\alpha]_D^{20} = -18.4^\circ$ ($c = 0.0044$, CDCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Bacillus subtilis*)^[4639]; antifungal (*Candida albicans* and *Trichophyton mentagrophytes*)^[4639]; antitubercular (*Mycobacterium tuberculosis* H37Ra, MIC = 25 μ g/mL, control Kanamycin sulfate, MIC = 2.5~5.0 μ g/mL)^[5435]; cytotoxic (KB cells, IC₅₀ = (9.9 \pm 1.3) μ g/mL, control Ellipticine, IC₅₀ = (0.3 \pm 0.1) μ g/mL; BC, IC₅₀ = (3.6 \pm 0.5) μ g/mL, Ellipticine, IC₅₀ = (0.3 \pm 0.1) μ g/mL; NCI-H187, IC₅₀ = (2.9 \pm 0.1) μ g/mL)^[5435]. Source: JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf: yield = 0.00022%dw). Ref: 4639, 5435.

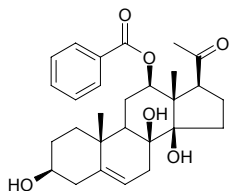
**2245 Benzoylisogomisin O**

$C_{30}H_{32}O_8$ (520.58). $[\alpha]_D^{23} = -13.5^\circ$ ($c = 1.23$, CHCl₃). Pharm: NFAT transcription inhibitor (IC₅₀ = (11.06 \pm 1.02) μ mol/L, control Cyclosporin A, IC₅₀ = (1.20 \pm 0.29) μ mol/L)^[5343]. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], WU WEI ZI *Schisandra chinensis*. Ref: 660, 5343.

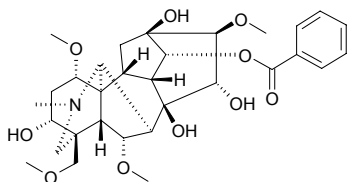


2246 12-O-Benzoylisolineolone

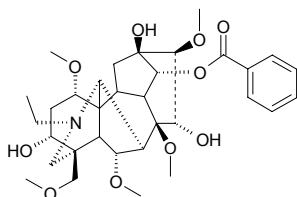
$C_{28}H_{36}O_6$ (468.60). mp 245~250°C. Source: FU SHOU CAO *Adonis amurensis*. Ref: 6.

**2247 Benzylmesaconine**

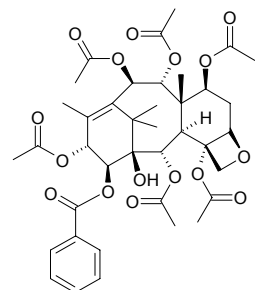
$C_{31}H_{43}NO_{10}$ (589.69). Pharm: Analgesic (mouse, tail pressure test, ED_{50} = 38.9mg/kg, LD_{50}/ED_{50} = 6.29)^[5451]; acute toxicity (mouse, LD_{50} = 245mg/kg)^[5451]. Source: WU TOU *Aconitum carmichaeli* (buds). Ref: 5451.

**2248 14-Benzoyl-8-O-methyl-aconine I**

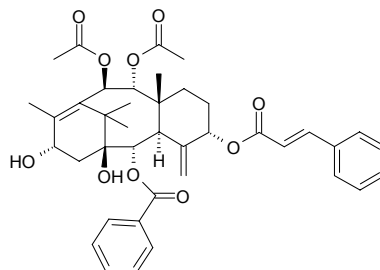
$C_{33}H_{47}NO_{10}$ (617.74). Amorphous powder, $[\alpha]_D^{20}$ = -2.36° (c = 0.721, $CHCl_3$). Source: NI YU LONG WU TOU *Aconitum pseudostapfianum*. Ref: 487.

**2249 14β-Benzoyloxybaccatin IV**

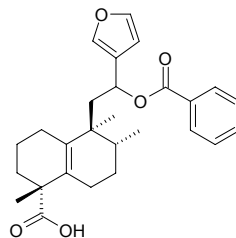
$C_{39}H_{48}O_{16}$ (772.81). Colorless prisms crystals (MeOH), mp 270~272°C, $[\alpha]_D^{15}$ = $+38.8^\circ$ (c = 0.31, $CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis* (leaf and stem: yield = 0.000033%dw). Ref: 4750.

**2250 2α-Benzoyloxy-5α-cinnamoyloxy-9α,10β-diacetoxy-1β,13α-dihydroxy-4(20),11-taxadiene**

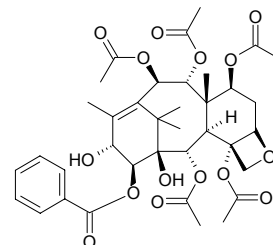
$C_{40}H_{46}O_{10}$ (686.81). mp 212~214°C, $[\alpha]_D$ = $+6.5^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**2251 12-Benzoyloxycrotohalimanic acid**

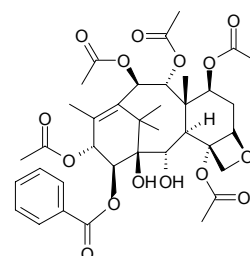
$C_{27}H_{32}O_5$ (436.55). Viscous transparent oil, $[\alpha]_D^{25}$ = $+54^\circ$ (c = 1.0, $CHCl_3$). Pharm: Cytotoxic inactive (*in vitro* hmn tumor cell cultures: BT474, > 10μg/mL; CHAGO, > 10μg/mL; HepG2, > 10μg/mL; Kato3, > 10μg/mL; SW620, > 10μg/mL)^[4930]. Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem bark). Ref: 4930.

**2252 14β-Benzoyloxy-13-deacetylbaaccatin IV**

$C_{37}H_{46}O_{15}$ (730.77). Colorless needle crystals (acetone-petroleum ether), mp 252~253°C, $[\alpha]_D^{19}$ = $+32.5^\circ$ (c = 0.123, CH_3COCH_3). Source: HONG DOU SHAN *Taxus chinensis* (leaf and stem: yield = 0.000067%dw). Ref: 4750.

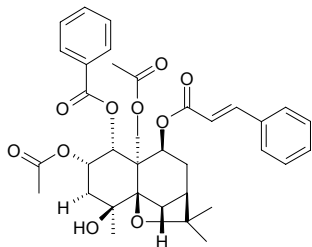
**2253 14β-Benzoyloxy-2-deacetylbaaccatin VI**

$C_{37}H_{46}O_{15}$ (730.77). Colorless lamellar crystals (acetone), mp 241~243°C, $[\alpha]_D^{16}$ = $+9.4^\circ$ (c = 0.57, MeOH). Source: HONG DOU SHAN *Taxus chinensis* (leaf and stem: yield = 0.00011%dw). Ref: 4750.



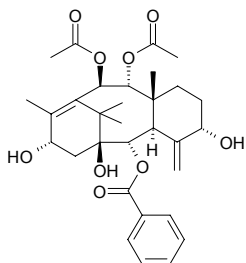
2254 (1R,2S,4S,5R,7R,9S,10R)-1 α -Benzoyloxy-2 α ,15-diacetoxy-4 β -hydroxy-9 β -cinnamoyloxy- β -dihydroagarofuran

C₃₅H₄₀O₁₀ (620.70). Colorless needles (Me₂CO), mp 193~194°C, [α]_D²⁰ = +153° (*c* = 1.68, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, Bel7402 liver carcinoma, IC₅₀ = 35.91 μ g/mL, control Etoposide, IC₅₀ = 7.00 μ g/mL). **Source:** *Euonymus nanoides* (seed). **Ref:** 4962.



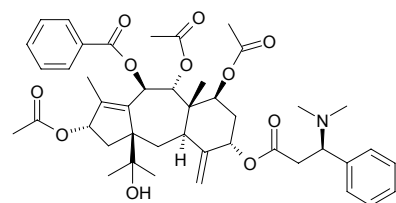
2255 2 α -Benzoyloxy-9 α ,10 β -diacetoxy-1 β ,5 α ,13 α -trihydroxy-4(20),11-taxadiene

C₃₁H₄₀O₉ (556.66). mp 196~197°C, [α]_D = +5° (CHCl₃). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



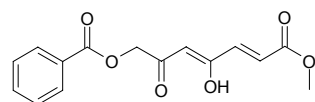
2256 10 β -Benzoyloxy-5 α -(3'-dimethylamino-3'-phenyl)propanoxy-1 β -hydroxy-7 β ,9 α ,13 α -triacetoxy-11(15→1)-abeo-taxa-4(20),11-dien

C₄₄H₅₅NO₁₁ (773.93). **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*. **Ref:** 662.



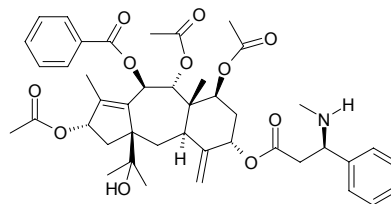
2257 7-Benzoyloxy-4-hydroxy-1-methoxy-2E,4Z-heptadien-1,6-dione

C₁₅H₁₄O₆ (290.28). White crystalline solid, mp 116~118°C. **Pharm:** Cytotoxic (BT474, IC₅₀ = 5.6 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.1 μ g/mL; CHAGO, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL; HepG2, IC₅₀ = 5.3 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; KATO 3, IC₅₀ = 3.9 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ = 4.9 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL). **Source:** *Melodorum fruticosum* (flower). **Ref:** 5245.



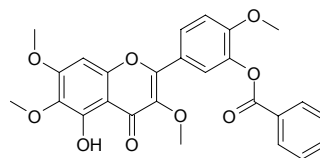
2258 10 β -Benzoyloxy-1 β -hydroxy-5 α -(3'-methylamino-3'-phenyl)propanoxy-7 β ,9 α ,13 α -triacetoxy-11(15→1)-abeo-taxa-4(20),11-diene

C₄₃H₅₃NO₁₁ (759.90). **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*. **Ref:** 662.



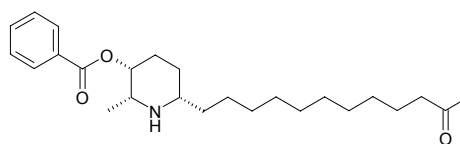
2259 3'-Benzoyloxy-5-hydroxy-3,6,7,4'-tetramethoxyflavone

C₂₆H₂₂O₉ (478.46). mp 210~211°C. **Pharm:** Cytotoxic (*in vitro*, Col2, ED₅₀ > 20 μ g/mL; hTERT-RPE1, ED₅₀ = 3.6 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; KB, ED₅₀ > 20 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; Lu1, ED₅₀ = 16.5 μ g/mL). **Source:** HUANG JING YE *Vitex negundo*. **Ref:** 4699.



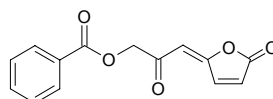
2260 3(R)-Benzoyloxy-2(R)-methyl-6(R)-(11'-oxododecyl)-piperidine

C₂₃H₃₉NO₃ (401.59). Pale yellow oil, [α]_D²⁵ = +2.64° (*c* = 0.46, EtOH). **Pharm:** Cytotoxic (P₃₈₈, IC₅₀ = 10.5 μ g/mL, control 5-FU, IC₅₀ = 0.99 μ g/mL; KB, IC₅₀ = 3.7 μ g/mL, Doxorubicin, IC₅₀ = 0.57 μ g/mL; BC-1, IC₅₀ = 6.2 μ g/mL, Doxorubicin, IC₅₀ = 0.21 μ g/mL); cytotoxic (brine shrimp lethality, IC₅₀ > 100 μ g/mL, control Monocrotophos, IC₅₀ = 0.24 μ g/mL). **Source:** ZHUANG GUAN FAN XIE *Senna spectabilis* (flower). **Ref:** 5480.



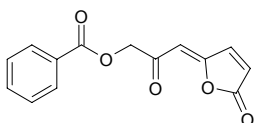
2261 7-Benzoyloxy-6-oxo-2,4E-heptadiene-1,4-olide

C₁₄H₁₀O₅ (258.23). Colorless bulky crystals, mp 139~140°C. **Pharm:** Cytotoxic (BT474, IC₅₀ > 10 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.1 μ g/mL; CHAGO, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL; HepG2, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; KATO 3, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL). **Source:** *Melodorum fruticosum* (flower). **Ref:** 5245.

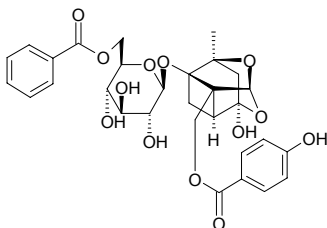


2262 7-Benzoyloxy-6-oxo-2,4Z-heptadiene-1,4-olide

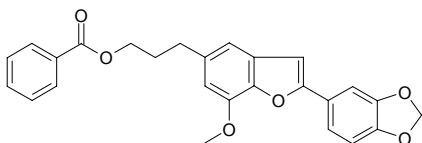
$C_{14}H_{10}O_5$ (258.23). Colorless bulky crystals, mp 136~138°C. **Pharm:** Cytotoxic (BT474, $IC_{50} = 3.0\mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 0.1\mu\text{g/mL}$; CHAGO, $IC_{50} > 10\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$; HepG2, $IC_{50} = 3.7\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$; KATO 3, $IC_{50} = 3.3\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$; SW620, $IC_{50} = 2.6\mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$). **Source:** *Melodorum fruticosum* (flower). **Ref:** 5245.

**2263 Benzoyl-oxypaeoniflorin**

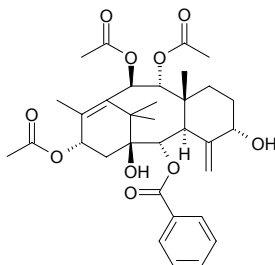
$C_{30}H_{32}O_{13}$ (600.58). **Pharm:** Platelet aggregation inhibitor. **Source:** MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. **Ref:** 1.

**2264 5-(3''-Benzoyloxypropyl)-7-methoxy-2-(3',4'-methylenedioxyphenyl)-benzofuran**

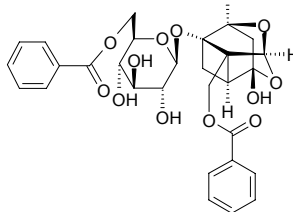
$C_{26}H_{22}O_6$ (430.46). **Source:** YAO YONG AN XI XIANG *Styrax officinalis*. **Ref:** 3426.

**2265 2a-Benzoyloxy-9a,10β,13α-triacetoxy-1β,5α-dihydroxy-4(20),11-taxadiene**

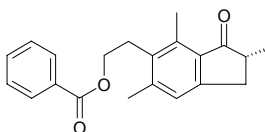
$C_{33}H_{42}O_{10}$ (598.70). mp 155~157°C, $[\alpha]_D^{25} = +67.7^\circ$ ($CHCl_3$). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**2266 Benzoylpaeoniflorin**

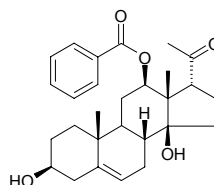
$C_{30}H_{32}O_{12}$ (584.58). **Pharm:** Antithrombotic (inhibits plasmin and plasminogen). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (root: content = 0.04%)^[5501], MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. **Ref:** 1, 660, 5501.

**2267 Benzoylpterosin B**

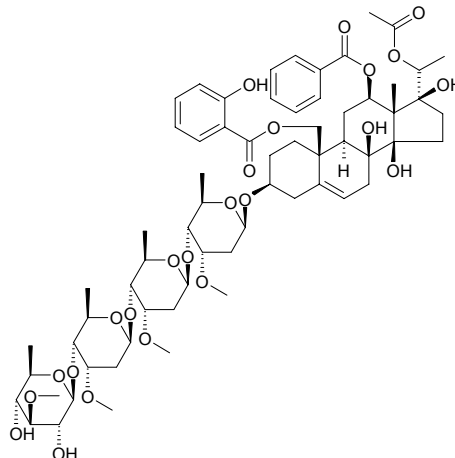
$C_{21}H_{22}O_5$ (322.41). mp 68~70°C. **Source:** JUE *Pteridium aquilinum* var. *latiusculum*. **Ref:** 6.

**2268 Benzoylramanone**

$C_{28}H_{36}O_5$ (452.60). mp 222~226°C. **Source:** LUO MO *Metaplexis japonica*. **Ref:** 6.

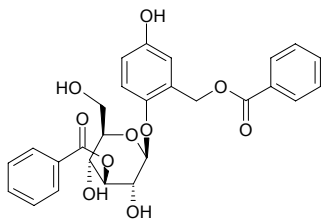
**2269 12-O-Benzoyl-19-salicyloyloxy-20-O-acetylsarcostin 3-O-β-D-thevetopyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside**

$C_{65}H_{92}O_{24}$ (1257.44). Amorphous powder, $[\alpha]_D^{24} = +62^\circ$ ($c = 0.32$, MeOH). **Source:** *Araujia sericifera* (root). **Ref:** 4377.

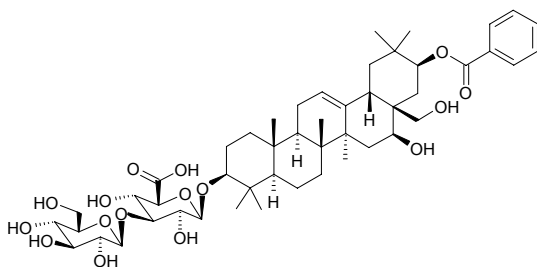


2270 Benzoylsalireposide

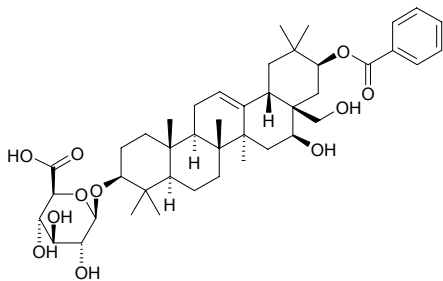
1-Benzoylmethyl-5-hydroxyphenyl- β -D-(3'-benzoyl) glucopyranoside
 $C_{27}H_{26}O_{10}$ (510.50). Amorphous powder, $[\alpha]_D^{23} = -7.69^\circ$ ($c = 0.182$, MeOH).
Pharm: Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (171 \pm 0.02) \mu\text{mol/L}$,
 control Cysteine, $IC_{50} = (274 \pm 0.07) \mu\text{mol/L}$)^[4093]; thymidine phosphorylase
 inhibitor (*in vitro*, $IC_{50} = (427.20 \pm 5.36) \mu\text{mol/L}$, control 7-Deazaxanthine, IC_{50}
 $= (38.68 \pm 4.42) \mu\text{mol/L}$)^[4093]. **Source:** ZHU ZI SHU *Symplocos racemosa*. **Ref:**
 3374, 4093.

**2271 21 β -O-Benzoylsitakisogenin 3-O- β -D-glucopyranosyl(1 \rightarrow 3)- β -D-glucuronopyranoside**

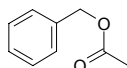
$C_{49}H_{72}O_{16}$ (917.11). Amorphous powder, mp 226~228°C, $[\alpha]_D^{20} = +15.4^\circ$ ($c = 0.16$, MeOH). **Pharm:** Anti-sweetener^[3037]. **Source:** CHI GENG TENG
Gymnema sylvestre (leaf: yield = 0.0043%dw). **Ref:** 3037.

**2272 21 β -Benzoylsitakisogenin-3-O- β -D-glucuronopyranoside**

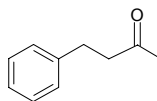
$C_{43}H_{62}O_{11}$ (754.97). Amorphous powder, mp 192~195°C, $[\alpha]_D^{20} = 27.2^\circ$ ($c = 0.15$, MeOH). **Source:** CHI GENG TENG *Gymnema sylvestre*. **Ref:** 766.

**2273 Benzyl acetate**

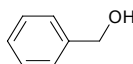
[140-11-4] $C_9H_{10}O_2$ (150.18). bp 213.5°C/756mmHg. **Source:** DING XIANG
Syzygium aromaticum [Syn. *Eugenia caryophyllata*], HUANG HUA HAO
Artemisia annua, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus*
praecox], SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. **Ref:** 6.

**2274 Benzyl acetone**

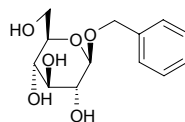
4-Phenylbutan-2-one [2550-26-7] $C_{10}H_{12}O$ (148.21). bp 235°C. **Pharm:**
 Antitussive. **Source:** CHEN XIANG *Aquilaria agallocha* (resinous wood:
 mean content of 10 batch samples = 0.036%)^[5508], MAN SHAN HONG
Rhododendron dauricum, XIAO YE PI PA *Rhododendron anthopogonoides*.
Ref: 1, 6, 13, 660, 2984, 5508.

**2275 Benzyl alcohol**

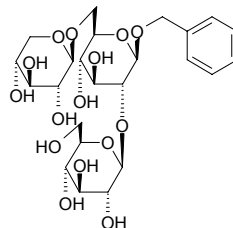
[100-51-6] C_7H_8O (108.14). **Source:** JIN YIN HUA *Lonicera japonica*, JU PI
Citrus reticulata. **Ref:** 2.

**2276 Benzyl alcohol O- β -D-glucopyranoside**

Phenylmethyl glucopyranoside [4304-12-5] $C_{13}H_{18}O_6$ (270.28). Needles
 (EtOAc/MeOH), mp 123~125°C, $[\alpha]_D^{25} = -59.2^\circ$ ($c = 0.67$, MeOH); mp
 120~121°C, $[\alpha]_D^{21} = -53^\circ$; $[\alpha]_D^{25} = -43^\circ$, ($c = 0.1$, MeOH); **Source:** BAI MEI
 HUA *Prunus mume* (flower: yield = 0.050%fw)^[4641], BEI SHA SHEN
Glehnia littoralis (fruit), CHA RU SHI WAN CUO *Asystasia intrusa*, DA
 HUA YIN YANG HUO BIAN ZHONG *Epimedium grandiflorum* var.
thumbergianum, LIU CHUAN YU *Linaria vulgaris*, SANG YE *Morus alba*
 (leaf: yield = 0.00075%), SHI LUO ZI *Anethum graveolens* (fruit), SUO SHA
 MI *Amomum xanthioides* (seed), YUAN YE E ZHANG CHAI *Schefflera*
rotundifolia (aerial parts). **Ref:** 2589, 2590, 3507, 3525, 4177, 4237, 4365,
 4641, 5036.

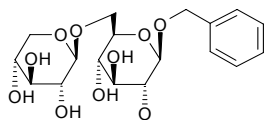
**2277 Benzyl alcohol β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-xylopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside**

$C_{24}H_{36}O_{15}$ (564.55). $[\alpha]_D^{22} = -41^\circ$ ($c = 0.6$, MeOH). **Source:** BA JIAO FENG
Alangium chinense (leaf). **Ref:** 4131.

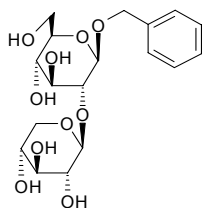


2278 Benzyl alcohol *O*- β -D-primveroside

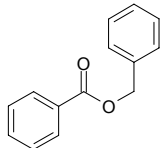
Benzyl alcohol xylopyranosyl(1 \rightarrow 6)glucopyranoside C₁₈H₂₆O₁₀ (402.40). Source: BAI MEI HUA *Prunus mume* (flower: yield = 0.0005%fw), LIU CHUAN YU *Linaria vulgaris*. Ref: 4237, 4641.

**2279 Benzyl alcohol β -D-(2'-*O*- β -xylopyranosyl)glucopyranoside**

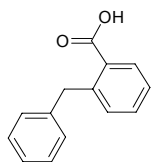
C₁₈H₂₆O₁₀ (402.40). Source: JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*, JIN HUANG CAO SU *Phlomis aurea* (leaf), LIU CHUAN YU *Linaria vulgaris*. Ref: 3846, 4237, 5093.

**2280 Benzyl benzoate**

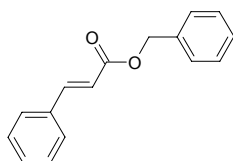
[120-51-4] C₁₄H₁₂O₂ (212.25). Oil, mp 21°C, bp 323~324°C. Source: BI LU XIANG JIAO *Myroxylon pereirae*, DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.0018%dw)^[4718], JIAN ZI YU PAN *Uvaria acuminata* (root), JIN YIN HUA *Lonicera japonica*, QU MAI *Dianthus superbus*. Ref: 6, 660, 4261.

**2281 *o*-Benzyl benzoic acid**

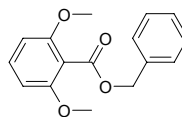
[612-35-1] C₁₄H₁₂O₂ (212.25). mp 117°C. Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 6.

**2282 Benzyl cinnamate**

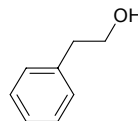
[103-41-3] C₁₆H₁₄O₂ (238.29). mp 39°C, bp 195~200°C/5mmHg. Source: BI LU XIANG JIAO *Myroxylon pereirae*, DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00093%dw)^[4718], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 2, 6, 4718.

**2283 Benzyl 2,6-dimethoxybenzoate**

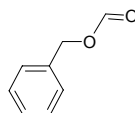
C₁₆H₁₆O₄ (272.30). Pharm: Antibacterial (*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Bacillus subtilis*)^[4639]; antifungal (*Candida albicans* and *Trichophyton mentagrophytes*)^[4639]. Source: JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf: yield = 0.00022%dw)^[4639], YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 660, 4639.

**2284 Benzyl ethyl alcohol**

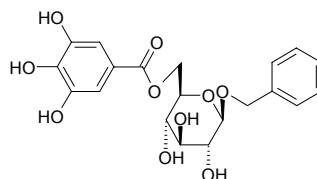
β -Phenylethyl alcohol [60-12-8] C₈H₁₀O (122.17). Pharm: Antibacterial; antiseptic; inhibits contraction of auricular smooth muscle (*in vitro*, high concentration); inhibits smooth muscle (rat ad rbt, Ileum and uterus, *in vitro*); antihypertensive (anesthetic rbt, iv, mild action); bronchodilator (gpg *in vitro*, high dose); LD₅₀ (rat, orl) = 1790mg/kg. Source: BI BA *Piper longum*, CHAN YANG *Populus tremuloides*, GAO DANG GUI *Ligusticum elatum*, GAO SHAN HUA JIAO *Zanthoxylum hamiltonianum*, HUI BAI DU HUO *Heraclium canescens*, JIN YIN HUA *Lonicera japonica*, MEI GUI HUA *Rosa rugosa*, MU TIAN LIAO *Actinidia polygama*, WEI XIAO WAN SHOU JU *Tagetes minuta*, ZHOU YE OU QIN *Petroselinum crispum*. Ref: 2, 6, 658.

**2285 Benzyl formate**

[104-57-4] C₈H₈O₂ (136.15). bp 202~203°C/747mmHg. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

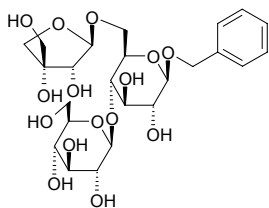
**2286 Benzyl 6'-*O*-galloyl- β -D-glucopyranoside**

C₂₀H₂₂O₁₀ (422.98). White amorphous powder, [α]_D = -29.4° (*c* = 1.7, MeOH); [α]_D²⁵ = -30° (*c* = 1.5, MeOH). Pharm: Antifungal (*Candida albicans* ATCC2091, MIC = 50 μ g/mL, control Amphotericin B, MIC = 1 μ g/mL; *Candida albicans* 32, MIC = 50 μ g/mL, Amphotericin B, MIC = 4 μ g/mL; *Candida albicans* 19, MIC = 100 μ g/mL, Amphotericin B, MIC = 2 μ g/mL)^[5021], cytotoxic inactive (MIC > 200 μ g/mL)^[5021], antibacterial inactive^[5021]. Source: *Baseonema acuminatum* (leaf), *Monochaetum multiflorum* (leaf). Ref: 5021, 5185.

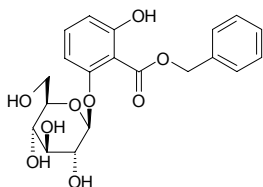


2287 Benzyl β -D-glucopyranosyl-(1 \rightarrow 4)-[β -D-apiofuranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside

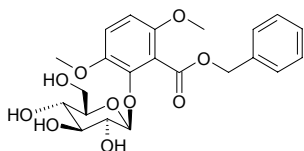
C₂₄H₃₆O₁₅ (564.55). Pale-yellow powder, [α]_D²⁵ = -58°, (c = 0.1, MeOH).
Source: YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts).
Ref: 5036.

**2288 Benzyl 2-O- β -D-glucopyranosyl-2,6-dihydroxybenzoate**

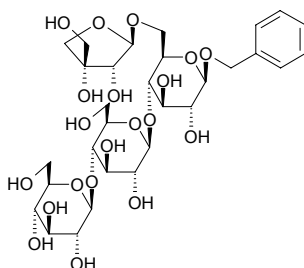
C₂₀H₂₂O₉ (406.39). Colorless oil. **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μ mol/L, StRt < 10%, 10 μ mol/L, StRt = (10~30)%, 100 μ mol/L, StRt = (10~30)%, 1 mmol/L, StRt = (10~30)%; *Raphanus sativus*, 1 μ mol/L, StRt = (31~60)%, 10 μ mol/L, StRt = (31~60)%, 100 μ mol/L, InRt = (10~30)%, 1 mmol/L, InRt = (31~60)%; *Allium cepa*, 1 μ mol/L, StRt = (10~30)%, 10 μ mol/L, StRt = (31~60)%, 100 μ mol/L, StRt or InRt < 10%, 1 mmol/L, InRt = (10~30)%). **Source:** XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 5217.

**2289 Benzyl 2 β -O-D-glucopyranosyl-3,6-dimethoxybenzoate**

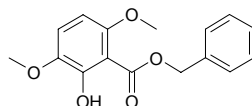
C₂₂H₂₆O₁₀ (450.45). Amorphous. **Source:** PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00046%). **Ref:** 4642.

**2290 Benzyl β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 4)-[β -D-apiofuranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside**

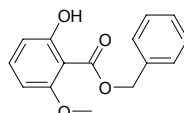
C₃₀H₄₆O₂₀ (726.69). Yellowish powder, [α]_D²⁵ = -26°, (c = 0.1, MeOH).
Source: YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts).
Ref: 5036.

**2291 Benzyl 2-hydroxy-3,6-dimethoxybenzoate**

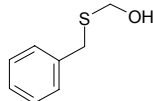
C₁₆H₁₆O₅ (288.3). mp 134~136°C. **Source:** PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00043%). **Ref:** 4642.

**2292 Benzyl 2-hydroxy-6-methoxybenzoate**

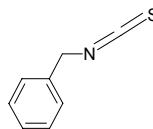
C₁₅H₁₄O₄ (258.28). **Source:** YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. **Ref:** 660.

**2293 Benzyl hydroxymethyl sulphide**

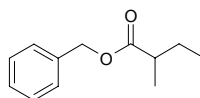
C₈H₁₀OS (154.23). Colorless oil. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC > 25 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC > 25 μ g, control Nystatin, MIC = 1.0 μ g)^[5159]; antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC₁₂ = 67 μ g/mL; RS 321, IC₁₂ = 58 μ g/mL; RS 52YK (rad 52Y), IC₁₂ = 76 μ g/mL, control Camptothecin, RS52YK (rad 52Y), IC₁₂ = 0.6 μ g/mL)^[5159]. **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**2294 Benzyl isothiocyanate**

[622-78-6] C₈H₇NS (149.22). bp 243°C; 124~125°C/12mmHg. **Pharm:** Antibacterial (gram-positive and gram-negative bacteria, IC = 1:1000000~1:3000000); LD₅₀ (mus, ip) = 76~107mg/kg, (gpg, ip) = 68mg/kg, (rat, ip) = 72mg/kg, (mus, orl) = 134mg/kg, (gpg, orl) = 81mg/kg, (rat, orl) = 128mg/kg. **Source:** BO NIANG HAO *Descurainia sophia*, FAN MU GUA *Carica papaya*, HAN LIAN HUA *Tropaeolum majus*, JIE ZI *Brassica juncea*, TING LI ZI *Lepidium apetalum* [Syn. *Lepidium micranthum*]. **Ref:** 1, 6, 660, 661.

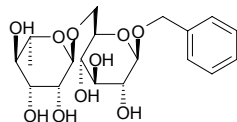
**2295 Benzyl D-2-methylbutyrate**

[56423-40-6] C₁₂H₁₆O₂ (192.26). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 6.

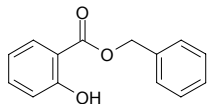


2296 Benzyl 6-O- α -L-rhamnopyranosyl-(1 \rightarrow 6) β -D-glucopyranoside

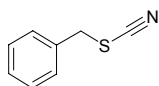
$C_{19}H_{28}O_{10}$ (416.43). $[\alpha]_D^{25} = -50^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antifungal inactive (*Candida albicans*, MIC > 200 μ g/mL; control Amphotericin B, MIC = 1–4 μ g/mL)^[5021]; antibacterial inactive^[5021]. **Source:** MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0003%), XIE JI CU YE MU *Lasianthus wallichii* (leaf), *Baseonema acuminatum* (leaf). **Ref:** 4238, 4304, 5021.

**2297 Benzyl salicylate**

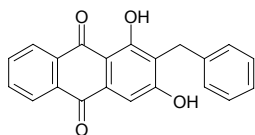
[1180-58-1] $C_{14}H_{12}O_3$ (228.25). bp 208°C/26mmHg. **Source:** QU MAI *Dianthus superbus*, SHI ZHU *Dianthus chinensis*. **Ref:** 6, 660.

**2298 Benzyl thiocyanate**

Tropaeolin [3012-37-1] C_8H_7NS (149.22). Rhomboid, mp 43°C, 36–38°C, bp 235°C, 256°C. **Pharm:** Antispasmodic; coronary vasodilator (cat, iv, 1.5 μ L/kg, flow of coronary artery increases (70–118)% and the action continues 30–60min); anti-carcinogenic (rat, inhibits carcinogenic action of multiple-ring aromatic hydrocarbons); pesticide (beetles and cockroaches); synergist of buhach; LD₅₀ (mus, orl) = 16 μ g/kg, (rat, orl) = 250 μ g/kg, (cat, orl) = 22 μ g/kg. **Source:** HAN LIAN HUA *Tropaeolum majus*. **Ref:** 6, 661.

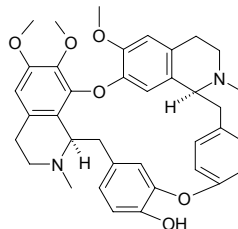
**2299 2-Benzylxanthopurpurin**

2-Benzyl-1,3-dihydroxy-anthraquinone [34425-61-1] $C_{21}H_{14}O_4$ (330.34). mp 300°C. **Source:** TU LIAN QIAO *Hymenodictyon excelsum*, HU CI *Dammacanthus indicus*. **Ref:** 6.

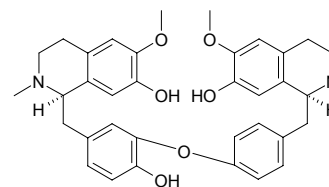
**2300 Berbamine**

[478-61-5] $C_{37}H_{40}N_2O_6$ (608.74). **Pharm:** Antiarrhythmic; antineoplastic; anti-ischemia myocardial; antispasmodic; antitubercular (*Mycobacterium tuberculosis*); immunoenhancer; increases leucocyte; inhibits myocardial contractility; antihypertensive; regulates drug immunological injury (mus); vascular relaxant (relaxes strip of arteriae renalis, rbt, *in vitro*); vasodilator; slows heart rate. **Source:** BAI YAO ZI *Stephania cepharantha*, BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], HUA NAN GONG LAO MU *Mahonia japonica*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], OU ZHOU XIAO BO *Berberis vulgaris*, RI BEN XIAO BO *Berberis thunbergii*, SHAO CHI XIAO BO *Berberis potaninii* (root, stem: mean content = 1.665%)^[5508], TAI WAN

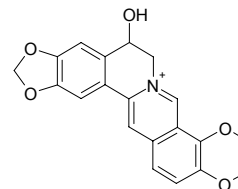
QIAN JIN TENG *Stephania sasakii*, XI YE GONG LAO MU *Mahonia fortunei*, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAN HUANG XIAO BO *Berberis diaphana*(root, stem: mean content = 0.440%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.08%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content = 0.03%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content = 0.01%)^[5508], ZHI YI XIAO BO *Berberis dubia* (root, stem: mean content = 0.396%)^[5508]. **Ref:** 1, 2, 4, 5, 660, 5501, 5508.

**2301 Berbamunine**

$C_{35}H_{38}N_2O_6$ (582.70). **Source:** XIAO BO *Berberis amurensis*. **Ref:** 660.

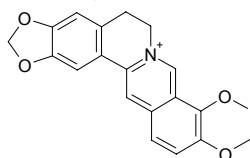
**2302 Berberastine**

$C_{20}H_{18}NO_5^+$ (352.37). **Pharm:** Similar action with berberine. **Source:** BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis*, RI BEN HUANG LIAN *Coptis japonica*, YUE GUI XIAO BO *Berberis laurina*. **Ref:** 658.

**2303 Berberine**

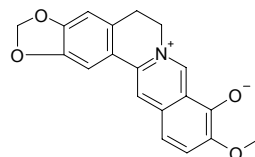
Umbellatine [2086-83-1] $C_{20}H_{18}NO_4^+$ (336.37). Yellow acicular crystals, mp 145°C, soluble in hot water, ethanol, slightly soluble in ether, benzene, chloroform, acetone.^[5507] **Pharm:** Adrenaline α_1 - and α_2 -receptor agonist; analgesic; antidiarrheal; anti-inflammatory; antihypertensive; antimicrobial; antiprotozoal; antipyretic; choleric; hypnotic (extends sleeping time due to pentobarbital); hypoglycemic; increases tolerance to anoxia; local anesthetic; reduces intra-ocular pressure in rbt; vasodilator, vascular smooth muscle relaxant; smooth muscle stimulant (uterus, bladder, gastrointestinal tract and bronchus); sedative; anti-HIV inactive (H9 lymphocytes, control AZT, IC₅₀ = 500 μ g/mL, EC₅₀ = 0.0317 μ g/mL, TI = 15,800)^[5364], antibacterial (oral pathogens: *Streptococcus mutans*, MIC = 125 μ g/mL, control Chlorhexidine gluconate, MIC = 1.25 μ g/mL; *Fusobacterium nucleatum*, MIC = 15.6 μ g/mL, Chlorhexidine gluconate, MIC = 2.5 μ g/mL)^[5418], cytotoxic (some hmn cancer cell lines, mouse P₃₈₈ leukemia cells, and rat 9L glioma cell line)^[5369]; cytotoxic (*in vitro*, inhibits proliferation of six esophageal cancer cell lines in a concentration-dependent manner)^[5369]. **Source:** BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root), BAI QU CAI *Chelidonium majus*

(whole herb: mean content of 5 origins = 0.017%)^[5508], BAI YAO ZI *Stephania cepharantha*, BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content = 0.07%)^[5508], CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.122%)^[5508], CHENG KOU SHI DA GONG LAO *Mahonia shenii* (stem: content = 1.67%)^[5510], CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.01%)^[5508], CHUAN DIAN SHI DA GONG LAO *Mahonia veitchiorum* (stem: content = 0.43%)^[5510], DA YE TANG SONG CAO *Thalictrum faberi* (root: content = 0.46%)^[5508], DA ZAO *Ziziphus jujuba*, DUAN E HUANG LIAN *Coptis chinensis* var. *brevise-pala* (rhizome: content = 5.31%)^[5508], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.040%)^[5508], E MEI YE HUANG LIAN *Coptis omeiensis* (rhizome: content = 8.77%)^[5508], FANG JI *Stephania tetrandra* (dried root: mean content of 3 origins = 0.152%)^[5508] GU LIN YE LIAN *Coptis gulinensis* (rhizome: content = 4.82%)^[5508], HU BEI SHI DA GONG LAO *Mahonia confusa* (stem: content = 0.19%)^[5510], HUA NAN GONG LAO MU *Mahonia japonica* (stem: content = 0.14%)^[5510], HUANG BAI *Phellodendron amurense* (bark: content scope = 0.63%~5.91%)^[5501], content scope = 0.68%~2.82%, mean content = 1.27%^[5508] HUANG LIAN *Coptis chinensis* (rhizome: content scope = 3.1%~8.4%)^[5501], mean content = 5.92%^[5508], HUANG PI SHU *Phellodendron chinense* (bark: mean content of 7 origins = 3.65%)^[5508], HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.156%)^[5508], JI YING SU *Argemone mexicana*, JIN HUA XIAO BO *Berberis wilsonae*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content = 1.16%)^[5508], KUAN BAO SHI DA GONG LAO *Mahonia eurybracteata* (stem: mean content of 3 origins = 0.30%)^[5510], MA WEI LIAN *Thalictrum foliolosum* (root: content = 1.25%)^[5508], RI BEN XIAO BO *Berberis thunbergii*, SAN JIAO YE HUANG LIAN *Coptis deltoidea* (rhizome: mean content = 4.39%)^[5508], SHAO CHI XIAO BO *Berberis potaninii* (root, stem: mean content = 0.315%)^[5508], SHI DA GONG LAO MU *Mahonia bealei* (stem: mean content of 4 origins 0.38%)^[5510], TU HUANG LIAN *Berberis julianae*, WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*] (stem: mean content of 4 origins = 0.14%)^[5510], XI BING SHI DA GONG LAO *Mahonia gracilipes* (stem: mean content of 4 origins = 0.23%)^[5510], XI YE GONG LAO MU *Mahonia fortunei* (stem: mean content of 4 origins = 0.48%)^[5510], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content = 0.21%)^[5508], XIAN E HUANG LIAN *Coptis linearisepala* (rhizome: content = 8.39%)^[5508], XIAN HUANG XIAO BO *Berberis diaphana* (root, stem: mean content = 1.284%)^[5508], XIAO GUO SHI DA GONG LAO *Mahonia bodinieri* (stem: content = 0.48%)^[5510], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content = 0.11%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtchaninovii* f. *yanhusuo*] (rhizome: mean content of 3 origins = 0.007%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content = 0.28%)^[5508], YUN NAN HUANG LIAN *Coptis teetoides* [Syn. *Coptis teeta*] (rhizome: mean content = 8.10%)^[5508], ZHI YI XIAO BO *Berberis dubia* (root, stem: mean content = 0.595%)^[5508], Ref: 1, 2, 4, 538, 660, 5364, 5369, 5418, 5501, 5507, 5508, 5510.



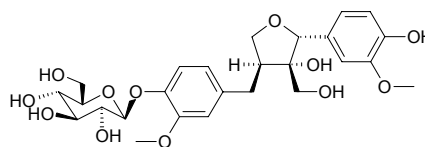
2304 Berberrubine

9-Berberoline C₁₉H₁₅NO₄ (321.34). **Pharm:** Antibacterial; hemostatic; increases blood pressure; cytotoxic (P₃₈₈ leukemia, L₁₂₁₀ leukemia, B16 melanoma and some hmn cancer cell lines)^[5369]; topoisomerase II inhibitor (*in vitro*)^[5369]; Berberrubine induced DNA cleavage inducer (in a site-specific and concentration dependent manner)^[5369]. **Source:** CU CI XIAO BO *Berberis actinacantha*, DA ER WEN XIAO BO *Berberis darwinii*, LV BAI TIAN XIAN TENG *Fibraurea chloroleuca*, OU ZHOU XIAO BO *Berberis vulgaris*, WA SHI XIAO BO *Berberis valdiviana*, ZA XING TANG SONG CAO *Thalictrum polygamum*. Ref: 1, 660, 1521, 5369.



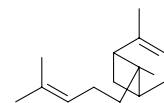
2305 Berchemol-4'-O-β-D-glucoside

C₂₆H₃₄O₁₂ (538.55). [α]_D²¹ = -15° (c = 0.01, DMSO). **Source:** XIE CAO *Valeriana officinalis* (root: yield = 0.017%dw)^[4656]. Ref: 4656.



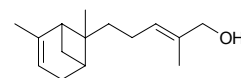
2306 α-Bergamotene

2,6-Dimethyl-6-(4-methyl-3-pentenyl)biscyclo[3,1,1]hept-2-ene C₁₅H₂₄ (204.36). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], HUA DONG LAN CI TOU *Echinops grijsii*, NAN HE SHI *Daucus carota*, SHENG JIANG *Zingiber officinale*, YIN CHEN HAO *Artemisia capillaris*, ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 2, 660.



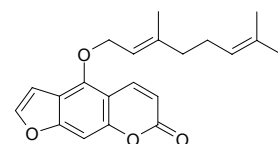
2307 9(10)Z,α-trans-Bergamotenol

C₁₅H₂₄O (220.36). Colorless oily liquid, [α]_D = -55.64° (c = 0.39, CHCl₃). **Source:** TAN XIANG *Santalum album*. Ref: 285.



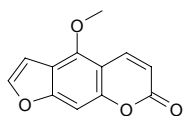
2308 Bergamotin

Bergamottin C₂₁H₂₂O₄ (338.41). **Source:** BEI SHA SHEN *Glehnia littoralis*, JU MAO LEI A WEI *Ferulago capillaris* (aerial parts), KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*]. Ref: 660, 3938.

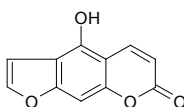


2309 Bergapten

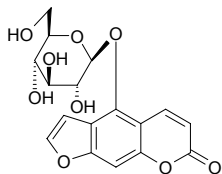
Psoraderm; 5-Methoxypsoralen [484-20-8] $C_{12}H_8O_4$ (216.20). mp 188–190°C. **Pharm:** Antihypertensive (rbt); antibacterial; molluscicide; photosensitizer (skin); cytotoxic (HSC-2 cells, $CC_{50} = 0.72\text{mmol/L}$; HGF, $CC_{50} > 0.93\text{mmol/L}$)^[3025]; cytotoxic (24h, HL-60, $IC_{50} > 50\mu\text{g/mL}$, control Adriamycin $IC_{50} < 0.10\mu\text{g/mL}$; P₃₈₈, $IC_{50} = 36.6\mu\text{g/mL}$, Adriamycin $IC_{50} < 0.10\mu\text{g/mL}$; CoLo 205, $IC_{50} = 40.8\mu\text{g/mL}$, Adriamycin $IC_{50} = 0.63\mu\text{g/mL}$; HeLa, $IC_{50} = 24.7\mu\text{g/mL}$, Adriamycin $IC_{50} = 0.15\mu\text{g/mL}$)^[5486]; toxin (fish, toad and snail with fluke). **Source:** AO PA CAO *Oppopanax chironium* (root), BAI HUA QIAN HU *Peucedanum praeruptorum*, CHOU CAO *Ruta graveolens*, CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00068%dw)^[4774], DIAN QIN *Sinodielsia yunnanensis* (root), FAN QIE *Lycopersicon esculentum*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], GOU JI *Cudrania cochinchinensis* (root: yield = 0.00056%dw)^[3025], HANG BAI ZHI *Angelica taiwaniana*, QING JIAO *Zanthoxylum schinifolium* (dried ripe pericarp: content = 0.472%^[5508]), SAN YE FANG FENG *Seseli meirei*, SHE CHUANG ZI *Cnidium monnieri* (fruit), SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 4 methods = 0.237%^[5508]), WU HUA GUO *Ficus carica*, XIANG NING MENG *Citrus bergamia*, YAN JIAO CAO *Boeninghausenia albiflora*, *Heracleum* sp., *Ligusticum* sp., *Ammi* sp., *Seseli* sp., *Petroselinum* sp., occurs in many plants. **Ref:** 2, 5, 268, 344, 507, 542, 549, 551, 658, 660, 1454, 3025, 4071, 4305, 4774, 5486, 5501, 5508.

**2310 Bergaptol**

[486-60-2] $C_{11}H_6O_4$ (202.17). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2, 507.

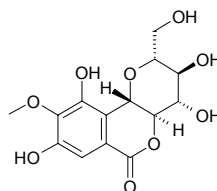
**2311 Bergaptol-O-β-D-glucopyranoside**

$C_{17}H_{16}O_9$ (364.31). **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} > 50\mu\text{g/mL}$, 50 $\mu\text{g/mL}$ InRt = 19%, control Ascorbic acid, $EC_{50} = 1.6\mu\text{g/mL} = 9.1\mu\text{mol/L}$)^[4154]. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.

**2312 Bergenin**

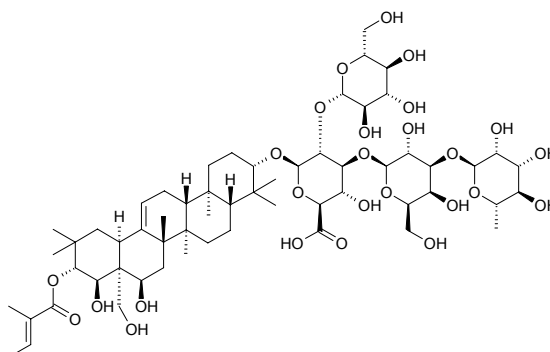
Arolisic acid B [477-90-7] $C_{14}H_{16}O_9$ (328.28). **Pharm:** DPPH scavenger ($IC_{50} = 131\mu\text{mol/L}$, control Trolox, $IC_{50} = (25.4 \pm 0.8)\mu\text{mol/L}$)^[4244]; cytotoxic (FM3A, $IC_{50} = 44\mu\text{mol/L}$)^[4244]; anti-inflammatory; antitussive; LD_{50} (mus, ip) = 10g/kg. **Source:** BAI LIANG JIN *Ardisia crispa*, DA HUA LUO XIN FU

Astilbe macroflora, ER CI YUN SHI *Caesalpinia digyna*, HOU YE YAN BAI CAI *Bergenia crassifolia*, HU ER CAO *Saxifraga stolonifera* (dried whole herb: mean content of 3 origins = 0.46%^[5508]), LUO XIN FU *Astilbe chinensis* (whole herb: content = 5.97%^[5508]), LV SONG QIU MAO *Mallotus philippinensis*, MU HE *Rodgersia aesculifolia* (dried rhizome: mean content = 5.13%^[5508]), TING YUAN ZI JIN NIU *Ardisia hortorum*, YAN BAI CAI *Bergenia purpurascens* (content scope = 2.1%~3.0%^[5501]), YE WU TONG *Mallotus japonicus*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), ZI JIN NIU *Ardisia japonica* (whole herb: content scope from 5 lab's results = 0.42%~3.26%, mean content = 1.30%^[5508]). **Ref:** 1, 4, 6, 660, 4244, 5501, 5508.

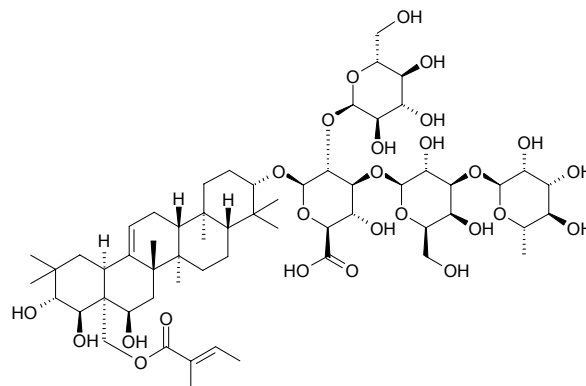
**2313 Berneuxia saponin A**

21-Tigloylbarringtonol C

3β -O- α -L-rhamnopyranosyl-(1→2)- β -D-galactopyranosyl-(1→3)[β -D-glucopyranosyl-(1→2)- β -D-glucuronopyranoside] [214350-98-8] $C_{59}H_{94}O_{26}$ (1219.39). $[\alpha]_D^{13} = -12.2^\circ$ ($c = 1.1$, MeOH). **Source:** YAN JIN CAI *Berneuxia thibetica*. **Ref:** 712.

**2314 Berneuxia saponin B**

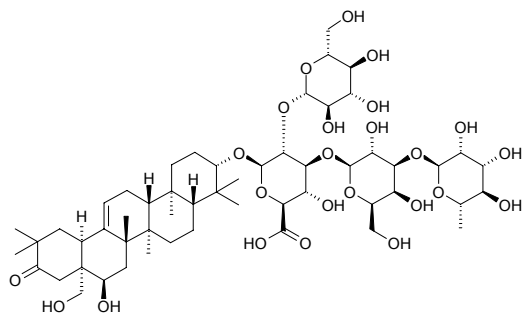
28-Tigloylbarringtonol C 3β -O- α -L-rhamnopyranosyl-(1→2)- β -D-galactopyranosyl-(1→3)[β -D-glucopyranosyl-(1→2)- β -D-glucuronopyranoside] [214359-08-7] $C_{59}H_{94}O_{26}$ (1219.39). $[\alpha]_D^{26} = -15.6^\circ$ ($c = 1$, MeOH). **Source:** YAN JIN CAI *Berneuxia thibetica*. **Ref:** 712.



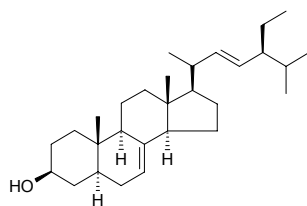
2315 Berneuxia saponin C

16 α -28-dihydroxyolean-12-en-21-one-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside] [214359-10-1] C₅₄H₈₆O₂₄ (1119.27). [α]_D¹³ = -6.8° (c = 0.75, MeOH).

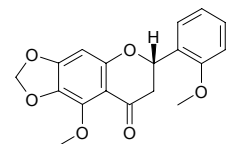
Source: YAN JIN CAI *Berneuxia thibetica*. Ref: 712.

**2316 Bessisterol**

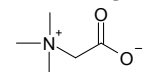
[481-18-5] C₂₉H₄₈O (412.71). mp 172–175°C. Source: MU ZEI *Equisetum hiemale*. Ref: 6.

**2317 Betagarin**

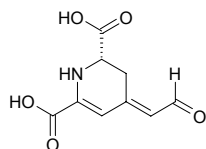
C₁₈H₁₆O₆ (328.32). Pharm: Antifungal. Source: TIAN CAI *Beta vulgaris*. Ref: 658.

**2318 Betaine**

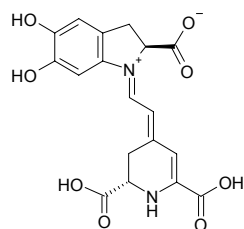
[107-43-7] C₅H₁₁NO₂ (117.15). mp 293°C. Pharm: Antineoplastic; antihepatotoxin (lipotropism); antihypertensive. Source: DA BO GU *Adhatoda vasica*, GOU QI ZI *Lycium chinense* (1%), HAI REN CAO *Digena simplex*, HUANG QI *Astragalus membranaceus*, MIAN HUA *Gossypium herbaceum*, ROU CONG RONG *Cistanche deserticola* (fleshy stem: mean content = 4.21%)^[5508], TIAN CAI *Beta vulgaris*, TU DING GUI *Evolvulus alsinoides*, WEI SUI XIAN *Amaranthus caudatus*, WU TONG ZI *Firmiana simplex*. Ref: 1, 2, 4, 15, 530, 658, 660, 5501, 5508.

**2319 Betalamic acid**

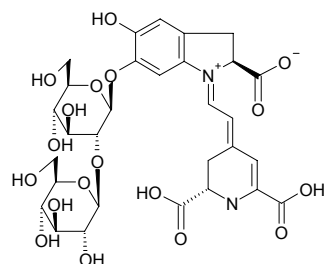
[18766-66-0] C₉H₉NO₅ (211.18). Pharm: Pigment. Source: DA HUA MA CHI XIAN *Portulaca grandiflora*, JI GUAN HUA *Celosia cristata*, TIAN CAI *Beta vulgaris*. Ref: 658.

**2320 Betanidin**

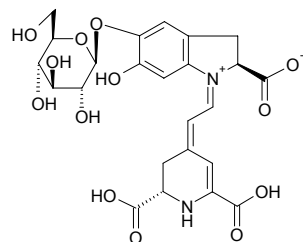
[2181-76-2] C₁₈H₁₆N₂O₈ (388.34). Pharm: Purple phytochrome. Source: DA HUA MA CHI XIAN *Portulaca grandiflora*, SHI YONG RI ZHONG HUA *Mesembryanthemum edule*. Ref: 658.

**2321 Betanidin 6-O- β -sophoroside**

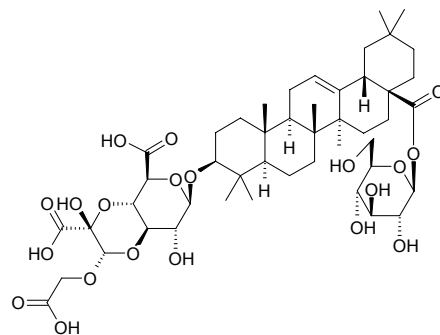
C₃₀H₃₆N₂O₁₈ (712.62). Source: GUANG YE ZI HUA *Bougainvillea glabra*. Ref: 6.

**2322 Betanin**

Beetroot red [7659-95-2] C₂₄H₂₆N₂O₁₃ (550.48). Pharm: Pigment. Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], DA HUA MA CHI XIAN *Portulaca grandiflora*. Ref: 6, 658.

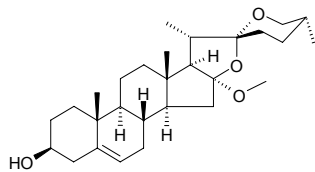
**2323 Betavulgaroside I**

C₄₇H₇₀O₂₀ (955.07). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

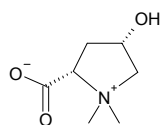


2324 Bethogenin

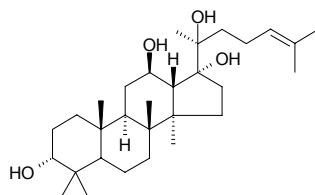
[471-55-6] C₂₈H₄₄O₄ (444.66). mp 193~194°C. Source: YU ER QI *Trillium camtschaticum*. Ref: 6.

**2325 Betonicine**

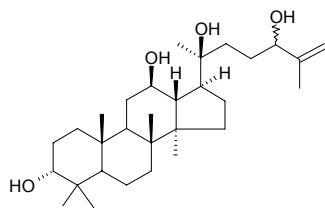
[515-25-3] C₇H₁₃NO₃ (159.19). mp 254~256°C. Pharm: Anti-inflammatory. Source: LIN DI SHUI SU *Stachys sylvatica*, OU XIA ZHI CAO *Marrubium vulgare*, SHE XIANG SHI CAO *Achillea moschata*, YANG SHI CAO *Achillea millefolium*, YAO SHUI SU *Betonica officinalis*. Ref: 6, 658.

**2326 Betulafolienetretol**

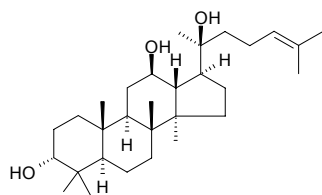
Dammar-24-ene-3,12,17,20-tetrol [58851-26-6] C₃₀H₅₂O₄ (476.75). mp 168~170°C. Source: HUA MU PI *Betula platyphylla*. Ref: 6.

**2327 Betulafolienetraol A**

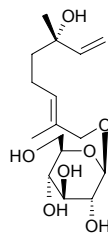
C₃₀H₅₂O₄ (476.75). Source: HUA MU PI *Betula platyphylla*. Ref: 660.

**2328 Betulafolientriol**

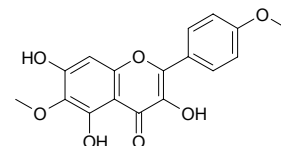
Dammar-24-ene-3,12,20-triol [7755-01-3] C₃₀H₅₂O₃ (460.75). mp 127~129°C. Source: HUA MU PI *Betula platyphylla*. Ref: 6.

**2329 Betulalbuside A**

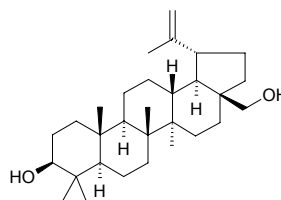
3,7-Dimethylocta-1,6-dien-3,8-diol 8-O-β-D-glucopyranoside [64776-96-1] C₁₆H₂₈O₇ (322.40). Amorphous powder. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf), *Betula alba*. Ref: 2583.

**2330 Betuletol**

6,4'-Dimethoxy-3,5,7-trihydroxyflavone C₁₇H₁₄O₇ (330.30). Source: CU YING MAO DIAN ZI CAO *Onosma hispidum* (whole herb), FENG JIAO *Apis mellifera ligustica*, YUE HUA *Betula ermanii*. Ref: 660, 4490.

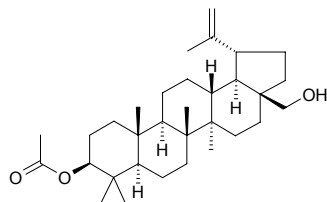
**2331 Betulin**

Betulinol [473-98-3] C₃₀H₅₀O₂ (442.73). mp 248~254°C; mp 251~253°C, [α]_D²³ = +21° (c = 0.18, CHCl₃). Pharm: Antineoplastic (rat W₂₅₆ and SWA16, 400mg/kg); cytotoxic inactive (NSCLC-N6 cell line)^[3806]; osteoblastic proliferation stimulator (UMR106 cell line, optimum concentration = 21.5μmol/L, at high concentration inhibits cellular growth; remarkably promotes activity of); alkaline phosphatase promoter (UMR106 cells); antitubercular (*Mycobacterium tuberculosis*, MIC = 30.0μg/mL, cytotoxic, Vero cells, IC₅₀ = 101μg/mL, SI (IC₅₀/MIC) = 3.37, positive control Rifampin, MIC = 0.03μg/mL, IC₅₀ = 98.3μg/mL, SI = 3277)^[4986]; mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations (0.00001~0.001)mol/L, possible use to treatment of chronic airway diseases)^[4084]; antineoplastic (EBV-EA induced by TPA, IC₅₀ = 378(mol ratio/32 pmol TPA), control Curcumin IC₅₀ = 343(mol ratio/32 pmol TPA))^[4099]. Source: AO LEI TONG QI MU *Alnus oregana*, CAN DOU *Vicia faba*, DA ZAO *Ziziphus jujuba*, HONG HUA PI *Betula platyphylla* var. *japonica*, HU TAO REN *Juglans regia*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0277%dw)^[4799], JIE GENG *Platycodon grandiflorum*, JIE GU MU *Sambucus williamsii* (stem branch), JU MI JIN HE HUAN *Acacia mellifera* (stem bark), JUN QIAN ZI *Diospyros lotus*, MI DIE XIANG *Rosmarinus officinalis*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], QIAN JIN ZI *Euphorbia lathyris*, QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000042%dw)^[4783], SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), WU MU XIE *Diospyros ebenum*, LUO E YE XIA ZHU *Phyllanthus flexuosus* (stem bark). Ref: 2, 5, 6, 658, 660, 3806, 4084, 4099, 4783, 4799, 4908, 4986.

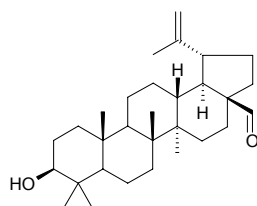


2332 Betulin-3-acetate

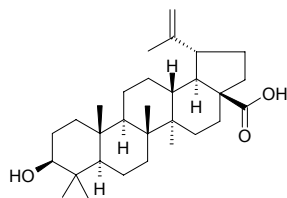
$C_{32}H_{52}O_3$ (484.77). mp 260°C. Source: LI MU *Lyonia ovalifolia*, SHAN REN YE *Rhodomyrtus tomentosa*. Ref: 6.

**2333 Betulinolaldehyde**

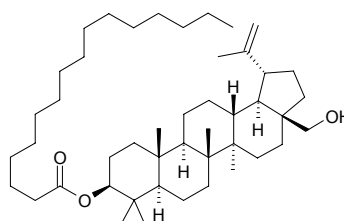
$C_{30}H_{48}O_2$ (440.72). Source: WU YA GUO *Dillenia indica*. Ref: 660.

**2334 Betulinic acid**

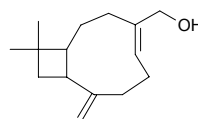
Betulinic acid [472-15-1] $C_{30}H_{48}O_3$ (456.72). White solid, mp 285~287°C, easily soluble in chloroform, acetone, acetic ester, hardly soluble in water; white needles ($CHCl_3$ -MeOH), mp 275~278°C, $[\alpha]_D^{20} = +7.8^\circ$ ($c = 0.9$, pyridine). Pharm: Antineoplastic (W_{256}); cytotoxic (cyclooxygenase-2 inhibitor)^[5038]; antitubercular (*Mycobacterium tuberculosis*, MIC = 62.1 μ g/mL, cytotoxic, Vero cells, $IC_{50} = 78.5 \mu$ g/mL, SI (IC_{50}/MIC) = 1.26, positive control Rifampin, MIC = 0.03 μ g/mL, $IC_{50} = 98.3 \mu$ g/mL, SI = 3277)^[4986]; cytotoxic (K562, $ED_{50} = (13 \pm 1.3) \mu$ mol/L, control Adriamycin, $ED_{50} = (0.09 \pm 0.03) \mu$ mol/L; B-16 (F-10), $ED_{50} = (14 \pm 2) \mu$ mol/L, Adriamycin, $ED_{50} = (0.06 \pm 0.10) \mu$ mol/L; SK-MEL-2, $ED_{50} = (7.2 \pm 0.6) \mu$ mol/L, Adriamycin, $ED_{50} = (0.09 \pm 0.30) \mu$ mol/L; PC3, $ED_{50} = (15 \pm 0.5) \mu$ mol/L, Adriamycin, $ED_{50} = (0.83 \pm 0.18) \mu$ mol/L; LOX-IMVI, $ED_{50} = (9.2 \pm 0.3) \mu$ mol/L, Adriamycin, $ED_{50} = (0.38 \pm 0.33) \mu$ mol/L; A549, $ED_{50} = (14 \pm 2) \mu$ mol/L, Adriamycin, $ED_{50} = (0.67 \pm 0.21) \mu$ mol/L)^[5479]; antimalarial inactive (*in vitro Plasmodium falciparum*)^[2091]; antibacterial (*Mycobacterium tuberculosis*, MIC = 25 μ g/mL)^[2091]. Source: DA ZAO *Ziziphus jujuba*, HU ZHANG CAO *Anemone rivularis* (root), JIAN PU ZHAI ZAO *Ziziphus cambodiana* (root cortex: yield = 0.054%_{dw})^[2091], JU MI JIN HE HUAN *Acacia mellifera* (stem bark), SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), SHU XING DU JUAN *Rhododendron arboreum*, SHUI LIU DOU *Pongamia pinnata* (stem bark: yield = 0.0033%)^[4721], SUAN ZAO REN *Ziziphus jujuba* var. *spinosa* (seed: content = 0.184%)^[5508], TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), XI SHU *Camptotheca acuminata*. Ref: 2, 453, 531, 591, 610, 658, 660, 2091, 3806, 4721, 4986, 5038, 5319, 5479, 5508.

**2335 Betulin 3-O-palmitate**

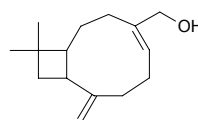
$C_{46}H_{80}O_3$ (681.15). Amorphous powder, $[\alpha]_D^{23} = +34.9^\circ$ ($c = 0.1$, $CHCl_3$). Source: HUANG LONG DAN *Gentiana lutea* (rhizome and root). Ref: 4307.

**2336 α -Betulol**

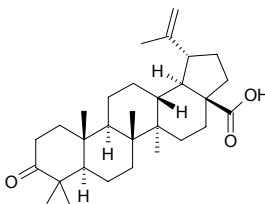
$C_{15}H_{24}O$ (220.36). bp 157~158°C/20mmHg. Source: LIANG YE HUA PI *Betula luminifera*. Ref: 6.

**2337 β -Betulol**

$C_{15}H_{24}O$ (220.36). bp 157~158°C/20mmHg. Source: LIANG YE HUA PI *Betula luminifera*. Ref: 6.

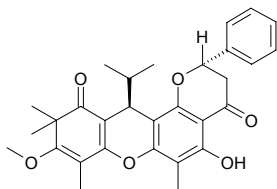
**2338 Betulonic acid**

Liquidambronic acid $C_{30}H_{46}O_3$ (454.70). White powder, mp 253~255°C, $[\alpha]_D^{20} = +7.0^\circ$ ($c = 1.0$, pyridine). Pharm: Cytotoxic (*in vitro*, HONE-1 cell, $IC_{50} = (4.9 \pm 2.1) \mu$ mol/L, control Etoposide, $IC_{50} = (0.5 \pm 0.2) \mu$ mol/L, *cis*-Platin, $IC_{50} = (3.2 \pm 0.5) \mu$ mol/L; KB cell, $IC_{50} = (8.2 \pm 1.8) \mu$ mol/L, Etoposide, $IC_{50} = (0.9 \pm 0.3) \mu$ mol/L, *cis*-Platin, $IC_{50} = (4.4 \pm 0.9) \mu$ mol/L; HT29 cell, $IC_{50} > 10 \mu$ mol/L, Etoposide, $IC_{50} = (2.4 \pm 0.5) \mu$ mol/L, *cis*-Platin, $IC_{50} = (5.7 \pm 1.1) \mu$ mol/L)^[5254]; cytotoxic (K562, $ED_{50} = (13.4 \pm 1.5) \mu$ mol/L, control Adriamycin, $ED_{50} = (0.09 \pm 0.03) \mu$ mol/L; B-16 (F-10), $ED_{50} > 20 \mu$ mol/L, Adriamycin, $ED_{50} = (0.06 \pm 0.10) \mu$ mol/L; SK-MEL-2, $ED_{50} > 20 \mu$ mol/L, Adriamycin, $ED_{50} = (0.09 \pm 0.30) \mu$ mol/L; PC3, $ED_{50} = (19 \pm 0.8) \mu$ mol/L, Adriamycin, $ED_{50} = (0.83 \pm 0.18) \mu$ mol/L; LOX-IMVI, $ED_{50} = (16 \pm 0.6) \mu$ mol/L, Adriamycin, $ED_{50} = (0.38 \pm 0.33) \mu$ mol/L; A549, $ED_{50} = (8.9 \pm 2.1) \mu$ mol/L, Adriamycin, $ED_{50} = (0.67 \pm 0.21) \mu$ mol/L)^[5479]. Source: DA ZAO *Ziziphus jujuba*, JU MI JIN HE HUAN *Acacia mellifera* (stem bark), LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], RONG SHU *Ficus microcarpa* (aerial root), SHAN REN YE *Rhodomyrtus tomentosa*. Ref: 660, 3806, 5254, 5479.

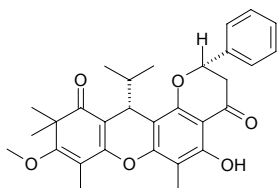


2339 BF-4

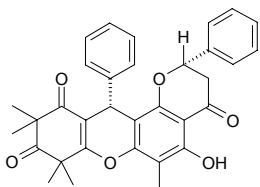
$C_{30}H_{32}O_6$ (488.59). Crystals (MeOH), mp 155~156°C, $[\alpha]_D = 0^\circ$ Pharm:
Cytotoxic (leukemia cell L₁₂₁₀ in tissue culture, IC₅₀ = 0.2~0.5 µg/mL). Source:
GANG SONG *Baeckea frutescens*. Ref: 1892.

**2340 BF-5**

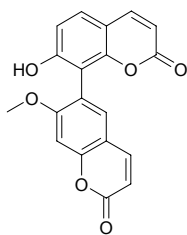
$C_{30}H_{32}O_6$ (488.59). Crystals (MeOH), mp 81~83°C, $[\alpha]_D = 0^\circ$ Pharm:
Cytotoxic (leukemia cell L₁₂₁₀ in tissue culture, IC₅₀ = 0.2~0.5 µg/mL). Source:
GANG SONG *Baeckea frutescens*. Ref: 1892.

**2341 BF-6**

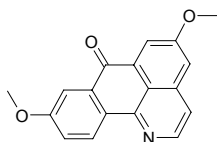
$C_{33}H_{30}O_6$ (522.60). Crystals (MeOH), mp 89~93°C, $[\alpha]_D = 0^\circ$ Source: GANG
SONG *Baeckea frutescens*. Ref: 1892.

**2342 Bhubaneswin**

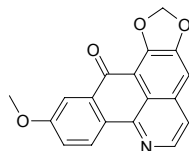
[89320-82-1] $C_{19}H_{12}O_6$ (336.30). mp 320°C. Source: SHI JIAO CAO
Boenninghausenia sessilicarpa, YAN JIAO CAO *Boenninghausenia albiflora*.
Ref: 2495.

**2343 Bianfugecine**

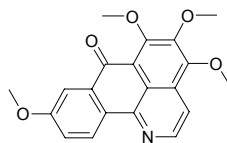
5,9-Dimethoxy-7*H*-dibenzo(de,h)quinolin-7-one [96681-50-4] $C_{18}H_{13}NO_3$
(291.31). Yellow brownish green powder, mp 160°C, sublimating at 160°C
and changing into yellow acicular crystals, decomposing at 200~202°C.
Source: BIAN FU GE *Menispermum dauricum*. Ref: 23.

**2344 Bianfugedine**

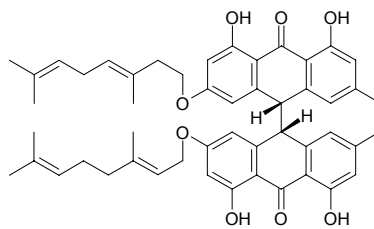
5,6-Methylenedioxy-9-methoxy-7*H*-dibenzo(de,h)quinolin-7-one [96681-51-5]
 $C_{18}H_{11}NO_4$ (305.29). Yellow prismatic crystals, mp 292~296°C (dec). Source:
BIAN FU GE *Menispermum dauricum*. Ref: 23.

**2345 Bianfugenine**

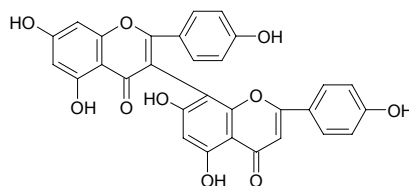
Dauriporphine [88142-60-3] $C_{20}H_{17}NO_5$ (351.36). Yellowish green thin
acicular crystals, mp 162~164°C, mp 167.0~167.5°C, producing a strong
yellowish green fluorescence in solution with chloroform. Source: BIAN FU
GE *Menispermum dauricum*. Ref: 23, 2402.

**2346 Bianthrone A₁**

$C_{50}H_{54}O_8$ (782.98). $[\alpha]_D^{25} = 0^\circ$ ($c = 2.273$, $CHCl_3$). Pharm: Antitrypanosomal
(*Trypanosoma brucei*, IC₅₀ = (53.5±18.4) µg/mL, control Melarsoprol, IC₅₀ =
(0.0015±0.0009) µg/mL; *Trypanosoma cruzi*, IC₅₀ > 90 µg/mL, control
Benznidazole, IC₅₀ = (0.39±0.15) µg/mL)^[5008]; antileishmanial (*Leishmania
donovani*, IC₅₀ > 30 µg/mL, control Miltefosine, IC₅₀ = (0.23±0.03) µg/mL;
Plasmodium falciparum, IC₅₀ = (41.1±6.6) µg/mL, control Chloroquine, IC₅₀
= (0.055±0.02) µg/mL, control Artemisinin, IC₅₀ =
(0.0011±0.0006) µg/mL)^[5008]; cytotoxic (L6, IC₅₀ > 90 µg/mL, control
Podophyllotoxin, IC₅₀ = 0.0075 µg/mL; brine shrimp lethality, IC₅₀ >
100 µg/mL, control Cyclophosphamide, IC₅₀ = 16.33 µg/mL)^[5008]. Source:
DONG FANG WEI SI MU *Vismia orientalis* (stem bark). Ref: 5008.

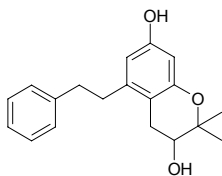
**2347 3,8''-Biapigenin**

5,7,4',5'',7'',4'''-Hexahydroxy-(3,8'')-biflavone $C_{30}H_{18}O_{10}$ (538.47). Source:
GUAN YE LIAN QIAO *Hypericum perforatum*, QIAO MAI *Fagopyrum
esculentum*, *Hypericum* spp. Ref: 660.

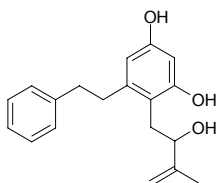


2348 Bibenzyl CPB-2002-50-1390-3

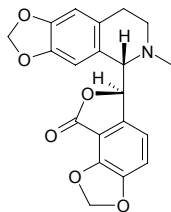
$C_{19}H_{22}O_3$ (298.39). Oil, $[\alpha]_D^{22} = +8.4^\circ$ ($c = 0.38$, $CHCl_3$). Source: BIAN YUAN BIAN E TAI *Radula marginata*. Ref: 4236.

**2349 Bibenzyl CPB-2002-50-1390-4**

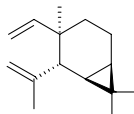
$C_{19}H_{22}O_3$ (298.39). Oil, $[\alpha]_D^{22} = 0^\circ$ ($c = 0.37$, $CHCl_3$). Source: BIAN YUAN BIAN E TAI *Radula marginata*. Ref: 4236.

**2350 Bicuculline**

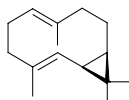
$C_{20}H_{17}NO_6$ (367.36). Source: BIAN BING HUANG JIN *Corydalis mucronifera*, DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], JU ZI JIN *Corydalis gigantea*, KU DI DING *Corydalis bungeana*, WU WEI CAO *Corydalis taliensis*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 660.

**2351 Bicycloelemene**

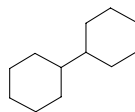
$C_{15}H_{24}$ (204.36). Source: DANG GUI *Angelica sinensis*, SHE TAI *Conocephalum conicum*. Ref: 660.

**2352 Bicyclogermacrene**

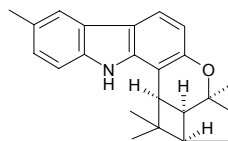
[24703-35-3] $C_{15}H_{24}$ (204.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 2, 3932.

**2353 1,1'-Bicyclohexyl**

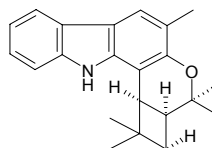
$C_{12}H_{22}$ (166.31). Source: JIN YIN HUA *Lonicera japonica*. Ref: 660.

**2354 Bicyclomahanimbicine**

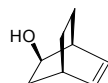
[28613-80-1] $C_{23}H_{25}NO$ (331.46). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11, 1521.

**2355 Bicyclomahanimbine**

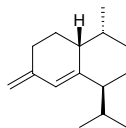
[31077-94-8] $C_{23}H_{25}NO$ (331.46). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**2356 Bicyclo[2,2,2]oct-5-en-2-ol**

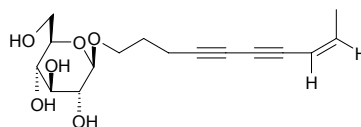
$C_8H_{12}O$ (124.18). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.

**2357 Bicyclosesquiphellandrene**

$C_{15}H_{24}$ (204.36). Source: BI CHENG QIE *Piper cubeba*, LUO LE *Ocimum basilicum*. Ref: 660.

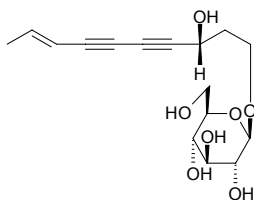
**2358 Bidenoside C**

8*Z*-Decaene-4,6-diyn-1-*O*- β -*D*-glucopyranoside $C_{16}H_{22}O_6$ (310.35). Colorless syrup, $[\alpha]_D^{25} = -18^\circ$ ($c = 0.10$, MeOH). Source: GUI ZHEN CAO *Bidens bipinnata* (aerial parts). Ref: 4275.

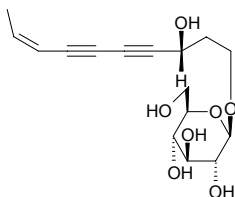


2359 Bidensyneoside A₁

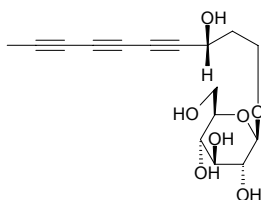
3(*R*),8(*E*)-8-Decene-4,6-diyne-1,3-diol 1-*O*- β -*D*-glucopyranoside C₁₆H₂₂O₇ (326.35). Brown powder, $[\alpha]_D^{23} = -146.4^\circ$ ($c = 0.6$, MeOH). **Pharm:** Antihistamine (mast cells, inhibits histamine release induced by antigen-antibody reaction, IC₅₀ = 0.074 μ mol/L, control Indumethacin, IC₅₀ = 0.625 μ mol/L)^[4105]; NO production inhibitor (mus macrophages RAW264.7, activated by 100ng/mL LPS at 37°C, for 18h, IC₅₀ = 0.225 μ mol/L, activated by 100ng/mL LPS + 10U/mL IFN- γ at 37°C, for 18h, IC₅₀ = 0.111 μ mol/L). **Source:** XIAO HUA GUI ZHEN *Bidens parviflora* (whole herb). **Ref:** 4105.

**2360 Bidensyneoside A₂**

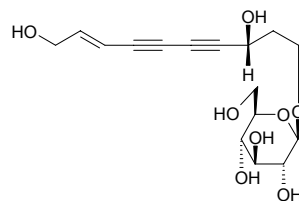
C₁₆H₂₂O₇ (326.35). Brown powder, $[\alpha]_D^{23} = -157.5^\circ$ ($c = 0.4$, MeOH). **Pharm:** Antihistamine (mast cells, inhibits histamine release induced by antigen-antibody reaction, IC₅₀ = 0.119 μ mol/L, control Indumethacin, IC₅₀ = 0.625 μ mol/L)^[4105]; NO production inhibitor (mus macrophages RAW264.7, activated by 100ng/mL LPS at 37°C, for 18h, IC₅₀ > 1.00 μ mol/L, activated by 100ng/mL LPS + 10U/mL IFN- γ at 37°C, for 18h, IC₅₀ > 1.00 μ mol/L)^[4105]. **Source:** XIAO HUA GUI ZHEN *Bidens parviflora* (whole herb). **Ref:** 4105.

**2361 Bidensyneoside B**

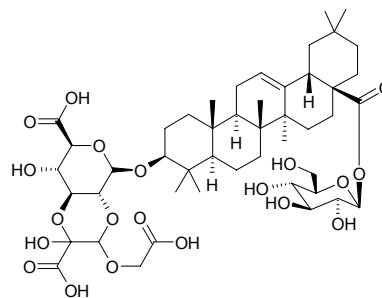
3(*R*)-Deca-4,6,8-triyn-1,3-diol 1-*O*- β -*D*-glucopyranoside C₁₆H₂₀O₇ (324.33). Brown powder, $[\alpha]_D^{23} = -52.2^\circ$ ($c = 0.6$, MeOH). **Pharm:** Antihistamine (mast cells, inhibits histamine release induced by antigen-antibody reaction, IC₅₀ = 0.186 μ mol/L, control Indumethacin, IC₅₀ = 0.625 μ mol/L)^[4105]; NO production inhibitor (mus macrophages RAW264.7, activated by 100ng/mL LPS at 37°C, for 18h, IC₅₀ = 0.141 μ mol/L, activated by 100ng/mL LPS + 10U/mL IFN- γ at 37°C, for 18h, IC₅₀ = 0.081 μ mol/L)^[4105]. **Source:** XIAO HUA GUI ZHEN *Bidens parviflora* (whole herb). **Ref:** 4105.

**2362 Bidensyneoside C**

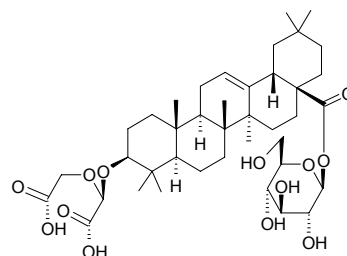
Deca-8(*E*)-en-4,6-diyne-1,3,10-triol 1-*O*- β -*D*-glucopyranoside; Bidoside D C₁₆H₂₂O₈ (342.35). Brown powder, $[\alpha]_D^{23} = -71.6^\circ$ ($c = 0.5$, MeOH). **Pharm:** Antihistamine (mast cells, inhibits histamine release induced by antigen-antibody reaction, IC₅₀ = 0.072 μ mol/L, control Indumethacin, IC₅₀ = 0.625 μ mol/L)^[4105]; NO production inhibitor (mus macrophages RAW264.7, activated by 100ng/mL LPS at 37°C, for 18h, IC₅₀ = 0.193 μ mol/L, activated by 100ng/mL LPS + 10U/mL IFN- γ at 37°C, for 18h, IC₅₀ = 0.126 μ mol/L)^[4105]. **Source:** GUI ZHEN CAO *Bidens bipinnata* (aerial parts), XIAO HUA GUI ZHEN *Bidens parviflora* (whole herb). **Ref:** 4105, 4275.

**2363 Bidentatoside I**

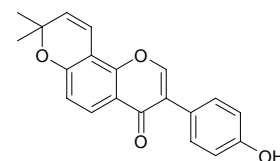
C₄₇H₇₀O₂₀ (955.07). Colorless amorphous powder, $[\alpha]_D^{25} = +44.0^\circ$ ($c = 0.05$, MeOH). **Source:** NIU XI *Achyranthes bidentata* (root: yield = 0.0073%dw)^[3038]. **Ref:** 3038.

**2364 Bidentatoside II**

3-*O*- β -[29-(20-*O*-Glycolyl)-glyoxylyl]-oleanolic acid 28-*O*- β -*D*-glucopyranoside C₄₀H₆₂O₁₃ (750.93). White amorphous powder, $[\alpha]_D^{25} = +6^\circ$ ($c = 0.1$, MeOH). **Source:** NIU XI *Achyranthes bidentata*. **Ref:** 4147.

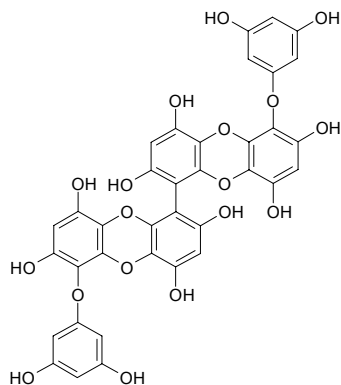
**2365 Bidwillon C**

C₂₀H₁₆O₄ (320.35). **Source:** *Bituminaria morisiana* (leaf). **Ref:** 5077.

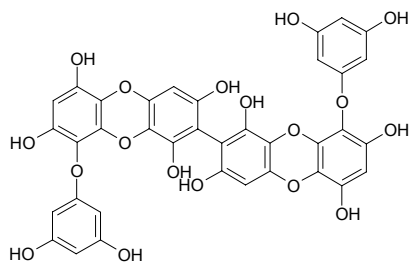


2366 6,6'-Bieckol

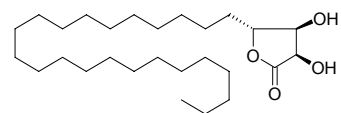
[88095-81-2] $C_{36}H_{22}O_{18}$ (742.55). Colorless rhombic crystals (water), mp > 300°C. **Pharm:** Antifibrinolysis (α_2 -macroglobulin *in vitro*, IC_{50} = 2.0 μ g/mL; α_2 -fibrinolysin *in vitro*, IC_{50} = 0.5 μ g/mL; fibrinolysin *in vitro*, IC_{50} = 23 μ g/mL; thrombin *in vitro*, IC_{50} = 11 μ g/mL; parenzyme *in vitro*, IC_{50} = 56 μ g/mL). **Source:** HEI KUN BU *Ecklonia kurome*. **Ref:** 1020.

**2367 8,8'-Bieckol**

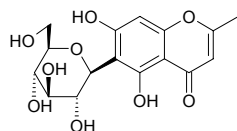
[89445-12-5] $C_{36}H_{22}O_{18}$ (742.55). Maple rhombic crystals (water), mp > 300°C. **Pharm:** Antifibrinolysis (α_2 -macroglobulin *in vitro*, IC_{50} = 2.0 μ g/mL; α_2 -fibrinolysin *in vitro*, IC_{50} = 0.7 μ g/mL; fibrinolysin *in vitro*, IC_{50} = 32 μ g/mL; thrombin *in vitro*, IC_{50} = 32 μ g/mL). **Source:** HEI KUN BU *Ecklonia kurome*. **Ref:** 1020.

**2368 Bifloride A**

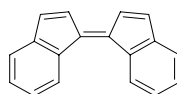
$C_{27}H_{52}O_4$ (440.71). **Source:** HONG SI XIAN *Lycianthes biflora*. **Ref:** 2230.

**2369 Biflorin**

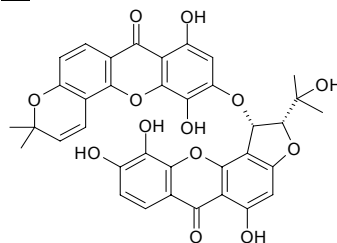
6 β -C-Glucopyranosyl-5,7-dihydroxy-2-methylchromone [89701-85-9] $C_{16}H_{18}O_9$ (354.32). Colorless needles, mp 158~164°C, $[\alpha]_D^{21}$ = +40.9° (*c* = 0.33, MeOH). **Pharm:** Phosphodiesterase inhibitor. **Source:** GANG SONG *Baekkea frutescens*, QUAN NENG HUA *Pancreatium biflorum*. **Ref:** 658, 1895.

**2370 (Z)-1,1'-Biindenyliden**

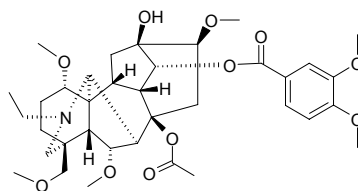
$C_{18}H_{12}$ (228.30). White flakes solid mp > 300°C. **Source:** HUAI *Sophora japonica*. **Ref:** 2150.

**2371 Bijaponicaxanthone**

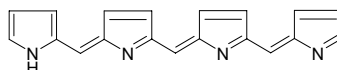
$C_{36}H_{28}O_{13}$ (668.62). Yellow amorphous powder, mp 248~250°C. **Source:** DI ER CAO *Hypericum japonicum*, HENG LI DI ER CAO *Hypericum henryi*. **Ref:** 775.

**2372 Bikhaconitine**

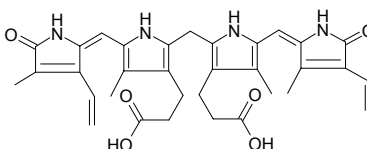
[6078-26-8] $C_{36}H_{51}NO_{11}$ (673.81). **Pharm:** Paralyzes respiration; antiarrhythmic (stops ventricular fibrillation); supertoxic agent. **Source:** NI BO ER WU TOU *Aconitum ferox*, SUI ZHUANG WU TOU *Aconitum spicatum*, ZI WU TOU *Aconitum violaceum*. **Ref:** 658.

**2373 Bilatriene**

$C_{19}H_{14}N_4$ (298.35). **Source:** JI NEI JIN *Gallus gallus domesticus*. **Ref:** 6.

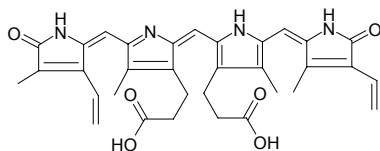
**2374 Bilirubin**

2,17-Diethenyl-1,10,19,22,23,24-hexahydro-3,7,13,17-tetramethyl-1,19-dioxo-21*H*-biline-8,12-dipropanoic acid [635-65-4] $C_{33}H_{36}N_4O_6$ (584.67). **Pharm:** A component of artificial calculus bovis (stones from the Bovidae gallbladder or biliary duct). **Source:** NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: content scope = 29.7%~59.2%, mean content = 40.9%^[5508]). **Ref:** 2, 658, 5507, 5508.

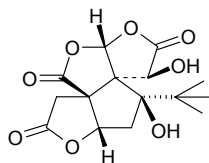


2375 Biliverdin

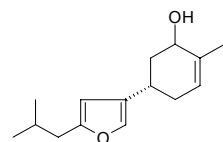
[114-25-0] $C_{33}H_{34}N_4O_6$ (582.66). Source: NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 2.

**2376 Bilobalide A**

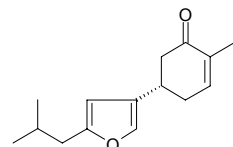
$C_{15}H_{18}O_8$ (326.31). Pharm: Neuroprotective and neurotrophic; antipneumocystis agent; antibacterial. Source: BAI GUO YE *Ginkgo biloba* (leaf: mean content of 12 samples = 1.18%^[5508]). Ref: 660, 1521, 5508.

**2377 Bilobanol**

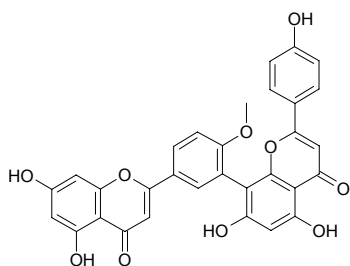
$C_{15}H_{22}O_2$ (234.34). Source: YIN YANG HUO *Epimedium brevicornum*. Ref: 2.

**2378 Bilobanone**

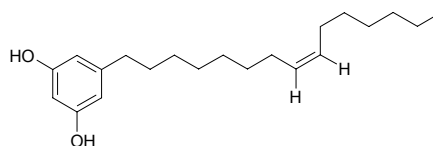
[17015-33-7] $C_{15}H_{20}O_2$ (232.33). mp 118~122°C/0.09mmHg. Source: BAI GUO SHU PI *Ginkgo biloba*. Ref: 6.

**2379 Bilobetin**

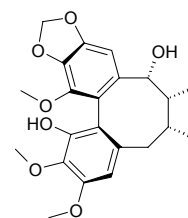
[521-32-4] $C_{31}H_{20}O_{10}$ (552.50). Yellow powder. Pharm: Anti-inflammatory (NO production inhibitor)^[4415]; normalizes the ratio between phosphatide and cholesterol; antihypercholesterolemic (reduces the level of cholesterol in serum). Source: BAI GUO *Ginkgo biloba* (in 1959, the compound was isolated from the plant by Kôichi Nakazawa)^[5505], BAI GUO YE *Ginkgo biloba* (leaf: mean content = 0.950%^[5508]), HAO WANG JIAO LUO HAN SONG *Podocarpus elongatu*. Ref: 1, 2, 442, 4415, 5501, 5505, 5508.

**2380 Bilobol**

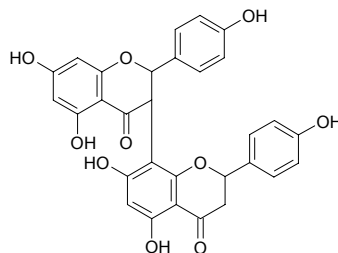
Cardol monoene; Alkylresorcinol B [22910-86-7] $C_{21}H_{34}O_2$ (318.50). crystals (pentene), mp 36~37°C; colorless powder, mp 30~31°C (methanol–water). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 25µg/mL); antineoplastic (EAC, leukemia SN36 and S₁₈₀); uterine stimulant (*in vitro*); 15-lipoxygenase inhibitor (*in vitro*, IC₅₀ = 250µmol/L); paralyzes small intestinal smooth muscle (rbt, *in vitro*); aldose reductase inhibitor; tyrosinase inhibitor (inhibits oxidation of L-dopa in mushroom, 0.8mmol/L, InRt = 85%, ID₅₀ = 0.08mmol/L); DPPH scavenger (IC₅₀ = 87µmol/L, control Trolox, IC₅₀ = (25.4±0.8)µmol/L)^[4244]; cytotoxic (murine breast cancer cell line FM3A, IC₅₀ = 2.0µmol/L)^[4244]; LD₅₀ (mus) = 761mg/kg. Source: BAI GUO *Ginkgo biloba* (in 1928, the compound was isolated from the plant by Sanehira Kawamura)^[5505], DU XIAN ZI *Anacardium occidentale*, XIAO RU XIANG *Schinus terebinthifolius*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit). Ref: 900, 4244, 5501, 5505.

**2381 Binankadsurin A**

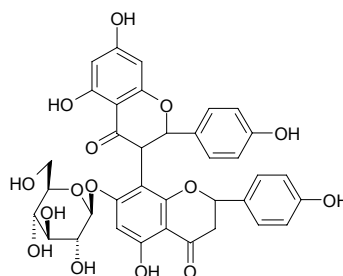
$C_{22}H_{26}O_7$ (402.45). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 660.

**2382 3,8''-Binaringenin**

$C_{30}H_{22}O_{10}$ (542.50). Source: SHAN ZHU ZI *Garcinia multiflora*. Ref: 660.

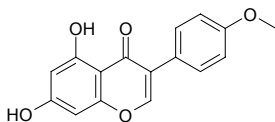
**2383 3,8''-Binaringenin-7''-O-β-glucoside**

$C_{36}H_{32}O_{15}$ (704.65). Source: SHAN ZHU ZI *Garcinia multiflora*. Ref: 6.

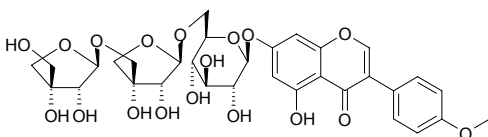


2384 Biochanin A

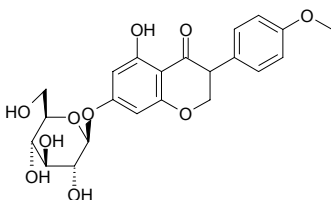
5,7-Dihydroxy-4'-methoxyisoflavone; Olmelin [491-80-5] C₁₆H₁₂O₅ (284.27). mp 215~216°C. **Pharm:** Cytotoxic (KB, ED₅₀ > 100µg/mL); estrogenic activity; antihypercholesterolemic (reduces the level of cholesterol in serum). **Source:** CHAN RAO HUANG TAN *Dalbergia volubilis*, DI XIA CHE ZHOU CAO *Trifolium subterraneum*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0018%dw)^[4630], HONG CHE ZHOU CAO *Trifolium pratense*, HUI HUI DOU *Cicer arietinum*, MENG MAI ROU DOU KOU *Myristica malabarica* (heartwood), ZHAN MAO XUN ZI *Cotoneaster pannosus*. **Ref:** 1, 6, 3906, 4630.

**2385 Biochanin A-7-O-[β-D-apiofuranosyl-(1→5)-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside]**

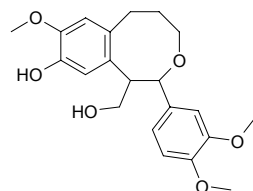
C₃₂H₃₈O₁₈ (710.65). Yellow amorphous powder, [α]_D²⁵ = -106.1° (c = 0.26, MeOH). **Source:** YIN DU HUANG TAN *Dalbergia sissoo* (leaf and stem cortex). **Ref:** 5172.

**2386 Biochanin-7-glucoside**

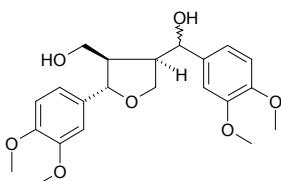
C₂₂H₂₄O₁₀ (448.43). mp 220°C. **Source:** HUI HUI DOU *Cicer arietinum*. **Ref:** 6.

**2387 Biondinin A**

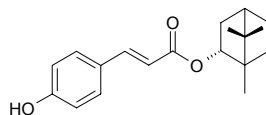
C₂₁H₂₆O₆ (374.44). Colorless oil. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 8, 660.

**2388 Biondinin B**

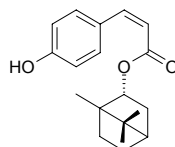
C₂₂H₂₈O₇ (404.46). Colorless oil. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 8.

**2389 Biondinin C**

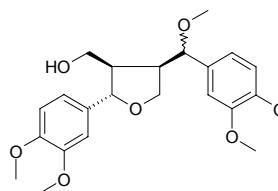
C₁₉H₂₄O₃ (300.40). Colorless cubical crystals, mp 153~155°C, [α]_D¹⁵ = -20° (c = 1.0, CHCl₃). **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 8.

**2390 Biondinin D**

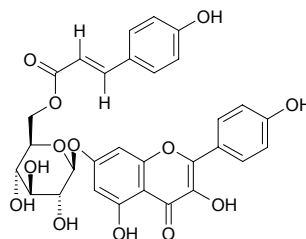
C₁₉H₂₄O₃ (300.40). Colorless oil. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 8.

**2391 Biondinin E**

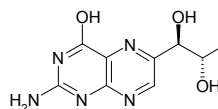
C₂₃H₃₀O₇ (418.49). Oil. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 8.

**2392 Biondinoid I**

Kaempferol-7-O-β-D-(6''-O-p-hydrocinnamoyl)-D-glucoside C₃₀H₂₆O₁₃ (594.53). Yellow crystals, mp 220~221°C. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 306, 660.

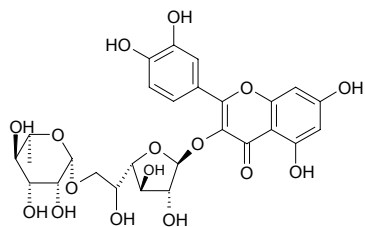
**2393 Biopterin**

Ranachrome 1 [22150-76-1] C₉H₁₁N₅O₃ (237.22). Carbonization at 243~280°C. **Source:** FENG RU *Apis cerana*, HEI MA YI *Formica fusca*, JIN YU *Carassius auratus*, QING WA *Rana nigromaculata*; *Rana plancyi*. **Ref:** 6.

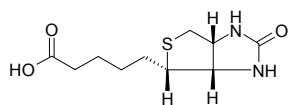


2394 Bioquercetin

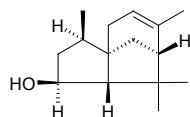
Quercetin-3-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-galactofuranoside
 $C_{27}H_{30}O_{16}$ (610.53). Source: SHAN ZHA HUA *Crataegus pinnatifida*. Ref: 660.

**2395 Biotin**

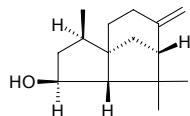
D(+)-Biotin; Vitamin B₇ [58-85-5] $C_{10}H_{16}N_2O_3S$ (244.31). Pharm: Has carboxylation activity during metabolism of protein and carbohydrate. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2, 658.

**2396 α -Biotol**

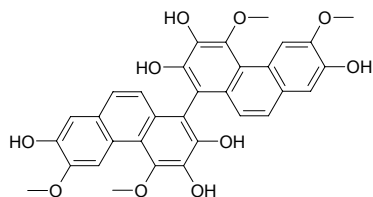
[19902-30-8] $C_{15}H_{24}O$ (220.36). mp 78°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. Ref: 6.

**2397 β -Biotol**

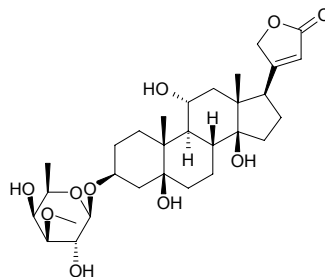
[19902-26-2] $C_{15}H_{24}O$ (220.36). mp 84°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. Ref: 6.

**2398 Biphenanthrene**

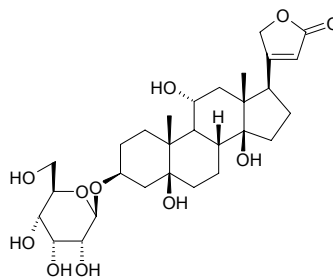
4,4',6,6'-Tetramethoxy-[1,1'-biphenanthrene]-2,2',3,3',7,7'-hexol $C_{32}H_{26}O_{10}$ (570.56). Gum, $[\alpha]_D^{27} = +5.8^\circ$ ($c = 0.26$, CH_3OH). Source: QIAO SHI DOU LAN *Bulbophyllum vaginatum* (whole herb). Ref: 4768.

**2399 Bipindaloside**

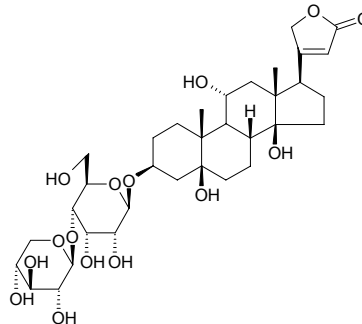
Bipindogenin 3-*O*- β -*D*-digitaloside $C_{30}H_{46}O_{10}$ (566.70). Pharm: Toxin (vertebrate). Source: SE LUN YANG JIAO AO *Strophanthus thollonii*, XI FEI YANG JIAO AO *Strophanthus sarmentosus* var. *senegambiae*. Ref: 658.

**2400 Bipindogenin-3-*O*- β -*D*-allopyranoside**

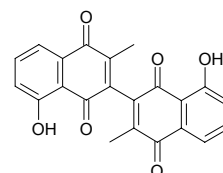
$C_{29}H_{44}O_{11}$ (568.67). Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 660.

**2401 Bipindogenin-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 4)- β -*D*-allopyranoside**

$C_{34}H_{52}O_{15}$ (700.78). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

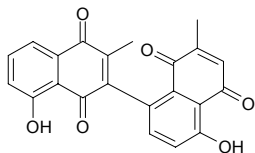
**2402 3,3'-Biplumbagin**

[34341-27-0] $C_{22}H_{14}O_6$ (374.35). Orange plates (C_6H_6), mp 214–217°C, mp 214–216°C. Pharm: Ichthyotoxin (MLC = 1.0mg/L, control Juglone, MLC = 0.2mg/L)^[4185]. Source: BAI HUA DAN *Plumbago zeylanica* (root), HAI SHI *Diospyros maritima* (fruit). Ref: 6, 4185.

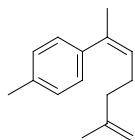


2403 3,8'-Biplumbagin

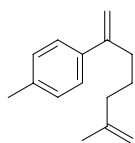
$C_{22}H_{14}O_6$ (374.35). Orange plates (hexane- C_6H_6), mp 204~205°C, mp 200~201°C. **Pharm:** Ichthyotoxin (MLC = 3.0mg/L, control Juglone, MLC = 0.2mg/L). **Source:** HAI SHI *Diospyros maritima* (fruit). **Ref:** 4185.

**2404 Bisabola-1,3,5,7,11-pentaene**

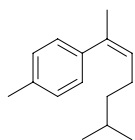
(2-Methyl-6-(4-methylphenyl)-1,5-heptadiene) $C_{15}H_{20}$ (200.33). Colorless oil. **Source:** NING BIAN E TAI *Radula perrottetii* (essential oil). **Ref:** 5272.

**2405 Bisabola-1,3,5,7(14),11-pentaene**

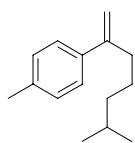
(2-Methyl-6-(4-methylphenyl)-1,6-heptadiene) $C_{15}H_{20}$ (200.33). Colorless oil. **Source:** NING BIAN E TAI *Radula perrottetii* (essential oil). **Ref:** 5272.

**2406 Bisabola-1,3,5,7-tetraene**

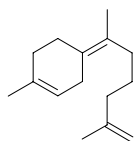
$C_{15}H_{22}$ (202.34). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

**2407 Bisabola-1,3,5,7(14)-tetraene**

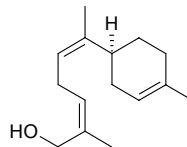
$C_{15}H_{22}$ (202.34). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

**2408 Bisabola-2,6,11-triene**

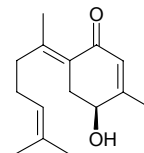
(4-(1,5-Dimethylhex-5-enylidene)-1-methylcyclohexene) $C_{15}H_{24}$ (204.36). Colorless oil. **Source:** NING BIAN E TAI *Radula perrottetii* (essential oil). **Ref:** 5272.

**2409 2,(7Z,10Z)-Bisabolatrien-13-ol**

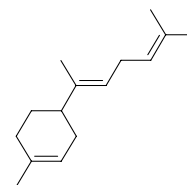
$C_{15}H_{24}O$ (220.36). Colorless oil. **Source:** XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). **Ref:** 3821.

**2410 (4S)-2,6,10-Bisabolatrien-4-ol-1-one**

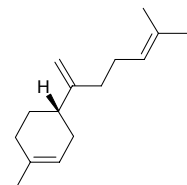
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{25} = -75.2^\circ$ ($c = 0.59$, $CHCl_3$). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). **Ref:** 4279.

**2411 α-Bisabolene**

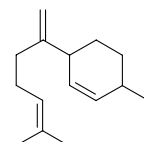
4-(1,5-Dimethyl-1,4-hexadienyl)-1-methyl-cyclohexene $C_{15}H_{24}$ (204.36). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**2412 β-Bisabolene**

L-Bisabolene [495-61-4] $C_{15}H_{24}$ (204.36). bp (-) 129~130°C/10.5mmHg. **Source:** DA YE XIANG RU *Mosla dianthera*, DANG GUI *Angelica sinensis*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DU SONG SHI *Juniperus rigida*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], FENG DOU CAI *Petasites japonicus*, GAN JIANG *Zingiber officinale*, HOU PO *Magnolia officinalis*, JI NING *Mosla grosseserrata*, NAN HE SHI *Daucus carota*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI YANG SHEN *Panax quinquefolium*, XIE CAO *Valeriana officinalis*. **Ref:** 2, 6, 660.

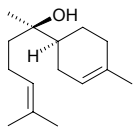
**2413 β₂-Bisabolene**

$C_{15}H_{24}$ (204.36). **Source:** WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. **Ref:** 6.

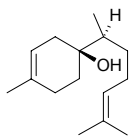


2414 β -Bisabolol

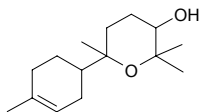
α -Bisabolol [515-69-5] C₁₅H₂₆O (222.37). bp 154.0~156.0°C/12mmHg.
Pharm: Anti-inflammatory. **Source:** ZHI YANG *Populus balsamifera*, MU⁽³⁾
 JU *Matricaria chamomilla* [Syn. *Matricaria recutita*]. **Ref:** 1, 2, 6, 658, 660.

**2415 Bisabolol**

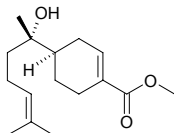
C₁₅H₂₆O (222.37). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell line, 50 μ mol/L, cell growth InRt = 0%; NUGC-3 cell line, 50 μ mol/L, cell growth InRt = 0%).
Source: *Peperomia sui*. **Ref:** 3401.

**2416 Bisabolol oxide A**

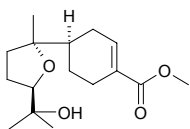
C₁₅H₂₆O₂ (238.37). bp 156~158°C. **Source:** MU⁽³⁾ JU *Matricaria chamomilla*
 [Syn. *Matricaria recutita*]. **Ref:** 6.

**2417 Bisaborosaol A**

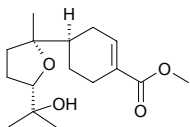
C₁₆H₂₆O₃ (266.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2418 Bisaborosaol B₁**

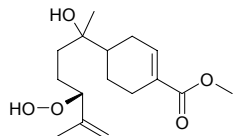
C₁₆H₂₆O₄ (282.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2419 Bisaborosaol B₂**

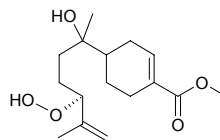
C₁₆H₂₆O₄ (282.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2420 Bisaborosaol C₁**

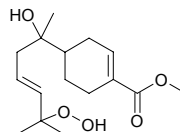
C₁₆H₂₆O₅ (298.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2421 Bisaborosaol C₂**

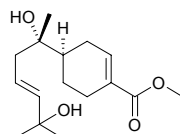
C₁₆H₂₆O₅ (298.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2422 Bisaborosaol D**

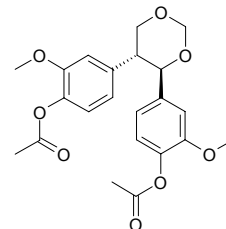
C₁₆H₂₆O₅ (298.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2423 Bisaborosaol F**

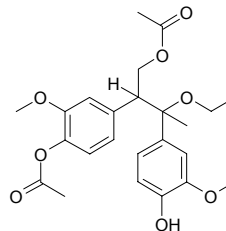
C₁₆H₂₆O₄ (282.38). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**2424 *trans*-4,5-Bis(4-acetoxy-3-methoxyphenyl)-1,3-dioxacyclohexane**

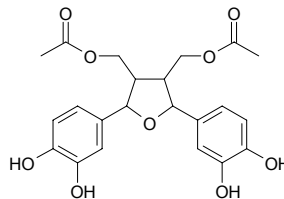
C₂₂H₂₄O₈ (416.43). Amorphous powder; [α]_D²⁵ = -46° (*c* = 0.08, CHCl₃).
Source: TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root: yield = 0.0025%dw). **Ref:** 4657.

**2425 *erythro*-2,3-Bis(4-acetoxy-3-methoxyphenyl)-3-ethoxypropan-1-ol acetate**

C₂₃H₂₈O₈ (432.47). Amorphous powder; [α]_D²⁵ = -14° (*c* = 0.14, CHCl₃).
Source: TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root: yield = 0.0037%dw). **Ref:** 4657.

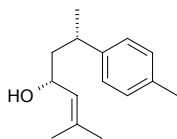
**2426 9,9-Bisacetylneoolivil**

C₂₂H₂₄O₉ (432.43). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 660.

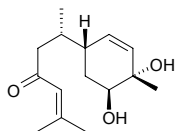


2427 Bisacumol

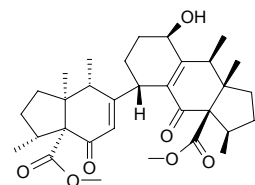
[120710-98-7] C₁₅H₂₂O (218.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (61.9±1.5)%, control L-NMMA, 100μmol/L, InRt = (79.2±0.9)%, *p*<0.01)^[4150]. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 3, 4150.

**2428 Bisacurone**

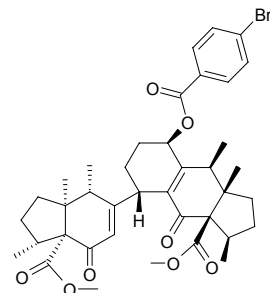
C₁₅H₂₄O₃ (252.36). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (54.3±4.0)%, control L-NMMA, 100μmol/L, InRt = (79.2±0.9)%, *p*<0.01)^[4150]. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660, 4150.

**2429 Bisacutifolone A**

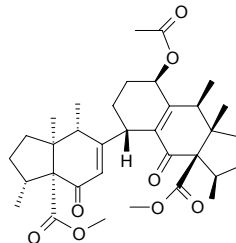
C₃₂H₄₄O₇ (540.70). Colorless prisms, mp 204–206°C, [α]_D²¹ = +59.0° (*c* = 0.51, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

**2430 Bisacutifolone A p-bromobenzoate**

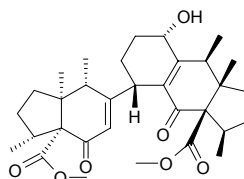
C₃₉H₄₇BrO₈ (723.71). Colorless oil, [α]_D²³ = +69.1° (*c* = 0.55, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

**2431 Bisacutifolone A mono acetate**

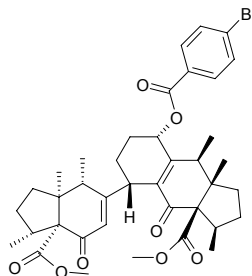
C₃₄H₄₆O₈ (582.74). Colorless oil, [α]_D¹⁹ = +71.0° (*c* = 0.65, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

**2432 Bisacutifolone B**

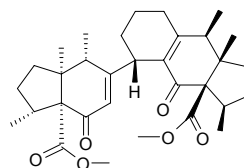
C₃₂H₄₄O₇ (540.70). Colorless oil, [α]_D²⁰ = +18.1° (*c* = 0.74, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

**2433 Bisacutifolone B p-bromobenzoate**

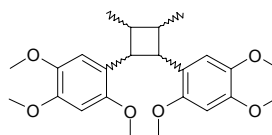
C₃₉H₄₇BrO₈ (723.71). Colorless amorphous powder, [α]_D²³ = -3.0° (*c* = 0.10, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

**2434 Bisacutifolone C**

C₃₂H₄₄O₆ (524.70). Colorless amorphous powder, [α]_D²¹ = +69.5° (*c* = 0.36, CHCl₃). **Source:** SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. **Ref:** 3932.

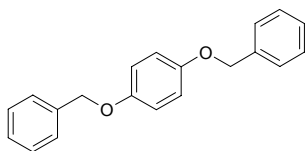
**2435 Bisasaricin**

Acorodin [73036-51-8] C₂₄H₃₂O₆ (416.52). mp 98.5–100.0°C. **Pharm:** Antihypercholesterolemic. **Source:** JIN QIAN PU *Acorus gramineus*, BAI CHANG *Acorus calamus*. **Ref:** 1.

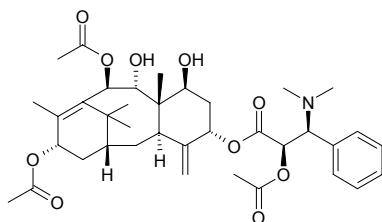


2436 1,4-Bis-benzyloxy-benzene

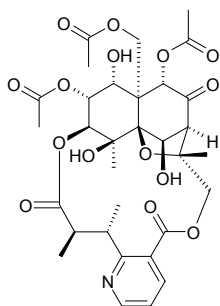
$C_{20}H_{18}O_2$ (290.37). Monoclinic crystals, mp 45.8–46.5°C. Source: BO YE WANG YI ZAO *Hydroclathrus tenuis*. Ref: 4889.

**2437 7β,9α-Bisdeacetylaustrospicatine**

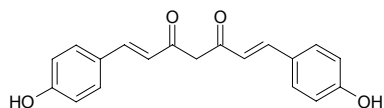
$C_{37}H_{51}NO_{10}$ (669.82). $[\alpha]_D = +41^\circ$. Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**2438 1,6-Bis-deacetyl evonine**

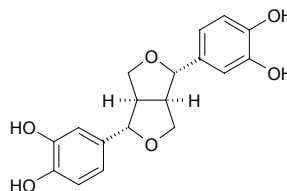
$C_{32}H_{39}NO_{15}$ (677.67). Colorless oil, $[\alpha]_D^{25} = +20.0^\circ$ ($c = 0.13$, $CHCl_3$). Source: OU ZHOU WEI MAO *Euonymus europaeus* (seed). Ref: 4162.

**2439 Bisdemethoxycurcumin**

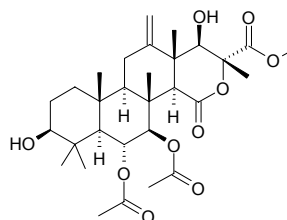
Demethoxycurcumin [22608-12-4] $C_{19}H_{16}O_4$ (308.34). Yellow needles, mp 232–233°C, mp 218–222°C. Pharm: Neuroprotective (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), $ED_{50} = (2.0 \pm 0.6) \mu\text{g/mL}$; anti- β A(1-41), $ED_{50} = (3.5 \pm 0.7) \mu\text{g/mL}$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4) \mu\text{g/mL}$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2) \mu\text{g/mL}$)^[4643]. Source: JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0059%dw)^[4643], YU JIN *Curcuma aromatica*. Ref: 6, 660, 4643.

**2440 (±)-3',3''-Bisdemethylpinoresinol**

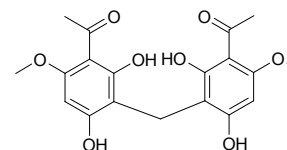
rel-(7 α ,7' α ,8 α ,8' α)-7,9':7',9-Diepoxy lignan-3,3',4,4'-tetraol) $C_{18}H_{18}O_6$ (330.34). Brown crystals, mp 106–109°C (MeOH– $CHCl_3$). Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

**2441 3,17-Bisdeoxo-3,17-dihydroxyenisimplicin A**

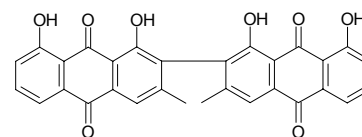
$C_{30}H_{44}O_{10}$ (564.68). Source: JI JIAN DAN QING MEI *Penicillium simplicissimum*. Ref: 4501.

**2442 1,1'-Bis(2,6-dihydroxy-3-acetyl-4-methoxyphenyl)methane**

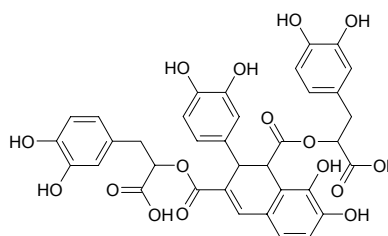
3,3'-Diacyl-4,4'-dimethoxy-2,2',6,6'-tetrahydroxy diphenyl methane $C_{19}H_{20}O_8$ (376.37). Light yellow acicular crystals, mp 253°C. Source: GAN SUI *Euphorbia kansui*, YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 660, 678.

**2443 2,2'-Bis[(1,8-dihydroxy-3-methyl)anthraquinone]**

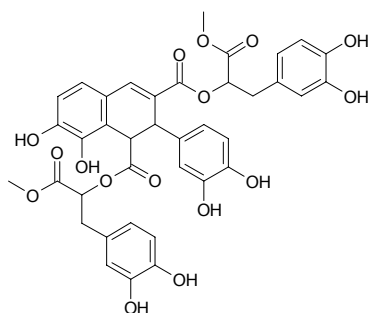
$C_{30}H_{18}O_8$ (506.47). Source: HONG SHI ER *Umbilicaria hypococcinea*. Ref: 660.

**2444 1,3-Bis-[2-(3,4-dihydroxyphenyl)-1-carboxy]ethoxycarbonyl-2-(3,4-dihydroxyphenyl)-7,8-dihydroxy-1,2-dihydronaphthalene**

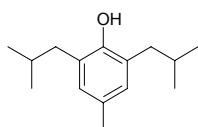
$C_{36}H_{30}O_{16}$ (718.63). Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*]. Ref: 660.



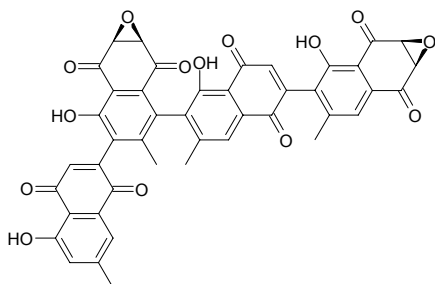
2445 1,3-Bis-[2-(3,4-dihydroxyphenyl)-1-methoxycarbonyl]ethoxycarbonyl-2-(3,4-dihydroxyphenyl)-7,8-dihydroxy-1,2-dihydronaphthalene
 $C_{38}H_{34}O_{16}$ (746.69). Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*]. Ref: 660.



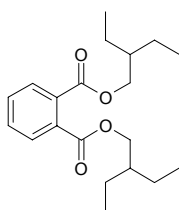
2446 2,6-Bis(1,1-dimethylethyl)-4-methyl phenol
 $C_{15}H_{24}O$ (220.36). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.



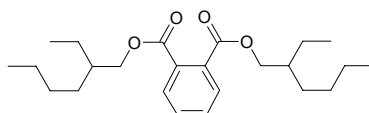
2447 6'',8''-Bisdiosquinone
 $C_{44}H_{26}O_{14}$ (778.69). Brown red crystalline. Source: BA BU YA XIN JI NEI YA SHI *Diospyros mafensis*. Ref: 1882.



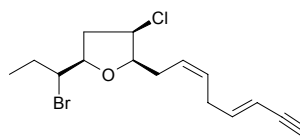
2448 Bis(2-ethylbutyl)phthalate
Di-(2-ethylbutyl)phthalate [7299-89-0] $C_{20}H_{30}O_4$ (334.46). Source: SHUI QIN *Oenanthe javanica*. Ref: 6.



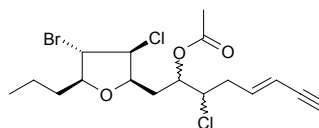
2449 Bis(2-ethyl-hexyl)-phthalate
Diocetyl 1,2-benzenedicarboxylate [117-81-7] $C_{24}H_{38}O_4$ (390.57). Source: ROU CONG RONG *Cistanche deserticola*, JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 2, 616.



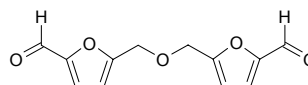
2450 Bisezakyne A
 $C_{15}H_{20}BrClO$ (331.68). Oil, $[\alpha]_D^{22} = -7.13^\circ$ ($c = 0.33$, $CHCl_3$). Source: *Laurencia* sp. Ref: 2306.



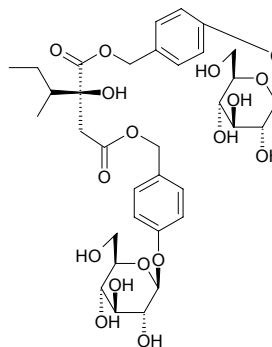
2451 Bisezakyne B
 $C_{17}H_{23}BrCl_2O_3$ (426.18). mp 69~70°C, $[\alpha]_D^{22} = -45.1^\circ$ ($c = 0.27$, $CHCl_3$). Source: *Laurencia* sp. Ref: 2306.



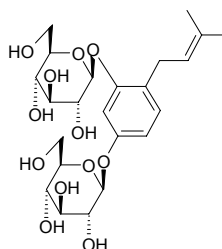
2452 Bis(5-formylfurfuryl)ether
Cirsiumaldehyde; 5,5'-Oxydimethylene-bis-(2-furaldehyde) $C_{12}H_{10}O_5$ (234.21). White needles (pet. ether-acetone), mp 113.5~115.5°C. Source: BEI CANG ZHU *Atractylodes chinensis*, JU PI *Citrus reticulata*. Ref: 2510, 2867.



2453 Bis[4-(β-D-glucopyranosyloxy) benzyl] (S)-2-butylmalate
 $C_{34}H_{46}O_{17}$ (726.74). White amorphous powder, mp 107~110°C, $[\alpha]_D^{20} = -40.07^\circ$ ($c = 2.25$, MeOH). Source: SHAN HU LAN *Galeola faberi*. Ref: 280.

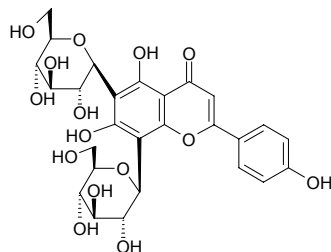


2454 1,5-Bis(β-D-glucopyranosyloxy-2-(3',3'-dimethylallyl) benzene
 $C_{23}H_{34}O_{12}$ (502.52). Amorphous powder, $[\alpha]_D^{25} = -5.0^\circ$ ($c = 0.1$, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.

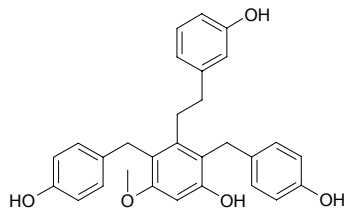


2455 6,8-Bis(C- β -glucosyl)-apigenin

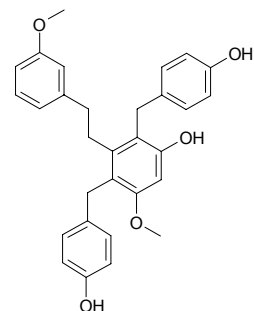
Vicenin 2 [23666-13-9] $C_{27}H_{30}O_{15}$ (594.53). mp 220°C (dec). **Pharm:** Anti-inflammatory (*in vivo*, carrageenan-induced rat paw edema)^[5040]; stimulates laying egg (*Papilo xuthus* on leaves in *Citrus* genus plants). **Source:** GAN CAO *Glycyrrhiza uralensis*, HUANG GAN CAO *Glycyrrhiza kansuensis*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], NING MENG PI *Citrus limon*, *Lychnophora ericoides* (fresh leaf), XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], XIN XI LAN MU JING *Vitex lucens*, *Tragopogon* sp., *Sophora* sp. **Ref:** 2, 6, 658, 660, 5040.

**2456 2',6'-Bis(*p*-hydroxybenzyl)-3,3'-dihydroxy-5-methoxybibenzyl**

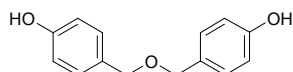
3,3'-Dihydroxy-2,6-bis(4-hydroxybenzyl)-5-methoxybibenzyl $C_{29}H_{28}O_5$ (456.54). Colorless needles. **Pharm:** Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (96.5 \pm 3.3) μ mol/L, $p < 0.01$; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, $p < 0.01$)^[5022]. **Source:** LAN YU BAI JI *Bletilla formosana* (whole herb), SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 4500, 5022.

**2457 2,6-Bis(*p*-hydroxybenzyl)-3',5-dimethoxy-3-hydroxybibenzyl**

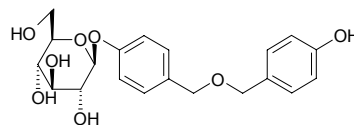
$C_{30}H_{30}O_5$ (470.57). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2458 Bis(4-hydroxybenzyl)ether**

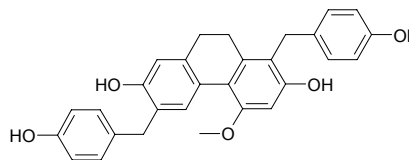
4,4'-Dihydroxybenzyl ether $C_{14}H_{14}O_3$ (230.27). **Source:** BAN XIA *Pinellia ternata*, TIAN MA *Gastrodia elata*. **Ref:** 2.

**2459 Bis(4-hydroxybenzyl)ether mono- β -D-glucopyranoside**

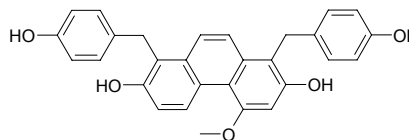
$C_{20}H_{24}O_8$ (392.41). **Source:** TIAN MA *Gastrodia elata*. **Ref:** 2.

**2460 1,6-Bis(4-hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol**

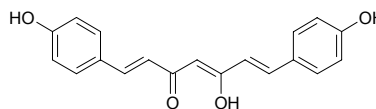
$C_{29}H_{26}O_5$ (454.53). **Source:** BAI JI *Bletilla striata*, LAN YU BAI JI *Bletilla formosana* (whole herb). **Ref:** 660, 4500.

**2461 1,8-Bis(4-hydroxybenzyl)-4-methoxyphenanthrene-2,7-diol**

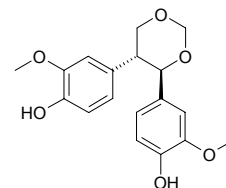
$C_{29}H_{24}O_5$ (452.51). **Source:** BAI JI *Bletilla striata*, LAN YU BAI JI *Bletilla formosana* (whole herb). **Ref:** 660, 4500.

**2462 Bis(4-hydroxycinnamoyl)methane**

$C_{19}H_{16}O_4$ (308.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (57.1 \pm 3.4)%), control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

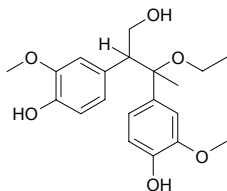
**2463 *trans*-4,5-Bis(4-hydroxy-3-methoxyphenyl)-1,3-dioxacyclohexane**

$C_{18}H_{20}O_6$ (332.36). **Source:** TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root). **Ref:** 4657.

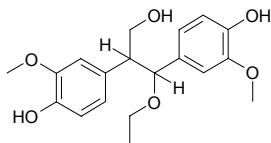


2464 erythro-2,3-Bis(4-hydroxy-3-methoxyphenyl)-3-ethoxypropan-1-ol

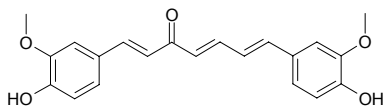
$C_{19}H_{24}O_6$ (348.4). **Source:** TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root). **Ref:** 4657.

**2465 threo-2,3-Bis(4-hydroxy-3-methoxyphenyl)-3-ethoxypropan-1-ol**

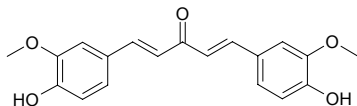
$C_{19}H_{24}O_6$ (348.4). Amorphous white powder, $[\alpha]_D^{25} = +16^\circ$ ($c = 0.13$, $CHCl_3$). **Source:** TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root: yield = 0.032%dw). **Ref:** 4657.

**2466 1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,4,6-heptatrien-3-one**

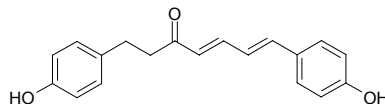
$C_{21}H_{20}O_5$ (352.39). Yellow powder, mp 128–129°C. **Pharm:** Neuroprotective inactive (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), $ED_{50} > 50\mu g/mL$; anti- β A(1-41), $ED_{50} > 50\mu g/mL$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4)\mu g/mL$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2)\mu g/mL$). **Source:** JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0001%dw). **Ref:** 4643.

**2467 1,5-Bis(4-hydroxy-3-methoxyphenyl)-1,4-pentadien-3-one**

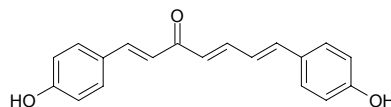
$C_{19}H_{18}O_5$ (326.35). Yellow powder, mp 85–86°C. **Pharm:** Neuroprotective inactive (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), $ED_{50} > 50\mu g/mL$; anti- β A(1-41), $ED_{50} > 50\mu g/mL$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4)\mu g/mL$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2)\mu g/mL$). **Source:** JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0004%dw). **Ref:** 4643.

**2468 1,7-Bis(4-hydroxyphenyl)hepta-4E,6E-dien-3-one**

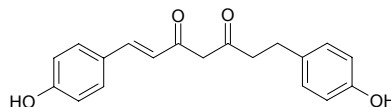
Anticancer Diarylheptanoid PMV70P691-72 $C_{19}H_{18}O_3$ (294.35). Yellow amorphous solid. **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 57.7\mu mol/L$; HT1080, $ED_{50} = 78.8\mu mol/L$)^[3042]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. **Source:** FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG *Musa x paradisiaca* cultivar, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00052%)^[3042]. **Ref:** 3042, 5038.

**2469 1,7-Bis(4-hydroxyphenyl)-1,4,6-heptatrien-3-one**

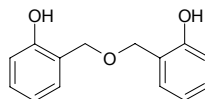
$C_{19}H_{16}O_3$ (292.34). Yellow powder, mp 147–148°C. **Pharm:** TNF- α production inhibitor (LPS-activated macrophages, mean $IC_{50} = 12.3\mu mol/L$)^[4416]; neuroprotective inactive (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), $ED_{50} > 50\mu g/mL$; anti- β A(1-41), $ED_{50} > 50\mu g/mL$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4)\mu g/mL$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2)\mu g/mL$)^[4643]. **Source:** JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0001%dw)^[4643], PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4416, 4643.

**2470 1,7-Bis(4-hydroxyphenyl)-1-heptene-3,5-dione**

$C_{19}H_{18}O_4$ (310.35). Yellow needles, mp 145–146°C. **Pharm:** Neuroprotective (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), $ED_{50} = (0.5 \pm 0.2)\mu g/mL$; anti- β A(1-41), $ED_{50} = (1.0 \pm 0.3)\mu g/mL$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4)\mu g/mL$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2)\mu g/mL$)^[4643]. **Source:** JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0004%dw)^[4643]. **Ref:** 4643.

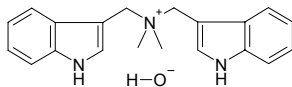
**2471 Bis(2-hydroxyphenyl)methyl ether**

$C_{14}H_{14}O_3$ (230.27). **Source:** *Milusa balansae* (branch and leaf: yield = 0.00013%dw)^[3016]. **Ref:** 3016.

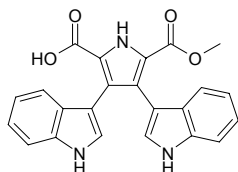


2472 3,3'-Bis(indolylmethyl)dimethyl ammonium hydroxide

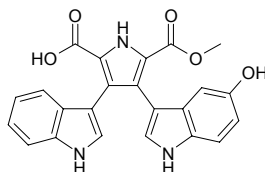
$C_{20}H_{23}N_3O$ (321.43). Source: LU ZHU GEN *Arundo donax*. Ref: 6.

**2473 Bisindolylpyrrole CPB-53-594-3**

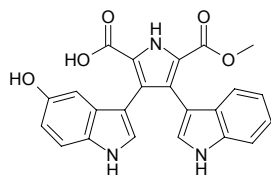
$C_{23}H_{17}N_3O_4$ (399.41). Brown amorphous powder. Pharm: Cytotoxic inactive (HeLa cells, $IC_{50} = 93.3 \mu\text{g/mL}$)^[4465]. Source: FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). Ref: 4465.

**2474 Bisindolylpyrrole CPB-53-594-4**

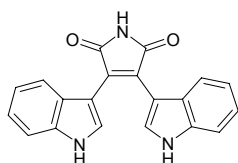
$C_{23}H_{17}N_3O_5$ (415.41). Pale yellow amorphous powder. Source: FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). Ref: 4465.

**2475 Bisindolylpyrrole CPB-53-594-5**

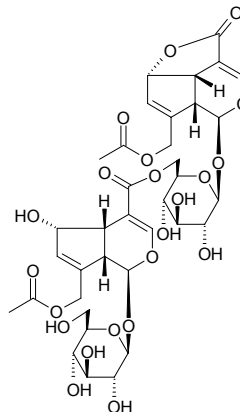
$C_{23}H_{17}N_3O_5$ (415.41). Pale yellow amorphous powder. Source: FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). Ref: 4465.

**2476 Bisindolylpyrrole CPB-53-594-6**

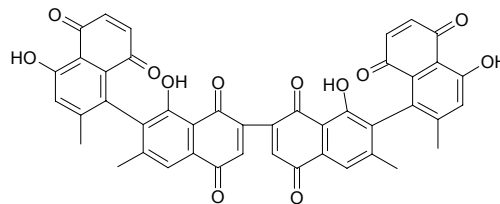
$C_{20}H_{13}N_3O_2$ (327.35). Source: FEN LIU JUN *Lycogala epidendrum* (wild sporocarp), HUI JIN SE TUAN WANG JUN *Arcyria cinerea* (wild sporocarp), AN HONG TUAN WANG JUN *Arcyria denudata*. Ref: 4465.

**2477 Bis-iridoid glucoside**

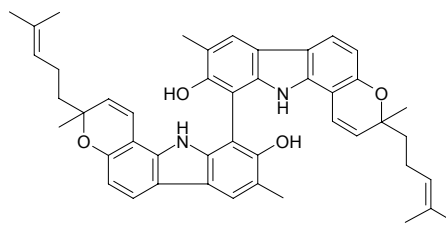
$C_{36}H_{44}O_{22}$ (828.74). Amorphous powder, $[\alpha]_D^{27} = -58.4^\circ$ ($c = 0.66$, MeOH). Source: XIE JI CU YE MU *Lasianthus wallichii* (leaf). Ref: 4238.

**2478 Bisiodiospyrin**

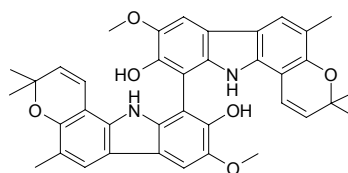
[30276-87-0] $C_{44}H_{26}O_{12}$ (746.69). mp $>320^\circ\text{C}$. Source: JUN QIAN ZI *Diospyros lotus*. Ref: 6.

**2479 Bisisomahanine**

9,9''-Dihydroxy-3,3'',8,8''-tetramethyl-3,3''-bis-(4-methyl-3-pentenyl)-3,3'',11,11''-tetrahydro-10,10''-(bipyrano[3,2-a]carbazole) $C_{46}H_{48}N_2O_4$ (696.91). Pale ivory powder, mp $130\sim 140^\circ\text{C}$, $[\alpha]_D^{20} = -13.1^\circ$ ($c = 0.25$, CHCl_3). Source: XIA GUO SHAN XIAO JU GEN *Glycosmis stenocarpa*. Ref: 2569.

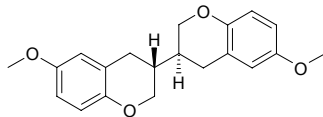
**2480 8,8''-Biskoenigine**

$C_{38}H_{36}N_2O_6$ (616.72). Brown gum, $[\alpha]_D^{24} = +139.6^\circ$ ($c = 1.00$, CHCl_3). Pharm: Antiosteoporosis (cathepsin B model, $IC_{50} = 1.3 \mu\text{g/mL}$)^[4681]. Source: YIN DU JIU LI XIANG *Murraya koenigii* (aerial parts). Ref: 4681.

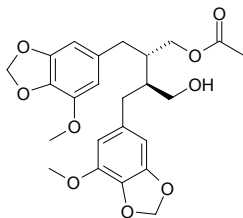


2481 3,3'-Bis(6-methoxychroman)

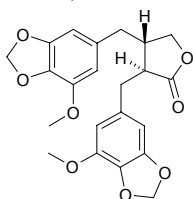
3,3'-Bis(3,4-dihydro-6-methoxy-2H-1-benzopyran); Bischroman C₂₀H₂₂O₄ (326.40). Colorless needles, mp 112–113°C, $[\alpha]_D^{24} = -60.546^\circ$ ($c = 0.331$, MeOH). Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 2197.

**2482 (2S,3S)-2,3-Bis(5-methoxy-3,4-methylenedioxybenzyl)-butane-1,4-diol monoacetate**

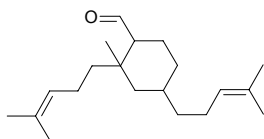
C₂₄H₂₈O₉ (460.49). Colorless gum, $[\alpha]_D^{25} = +9.5^\circ$ ($c = 0.153$, CHCl₃). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00012%). Ref: 4733.

**2483 (2S,3S)-2,3-Bis(5-methoxy-3,4-methylenedioxybenzyl)-butyrolactone**

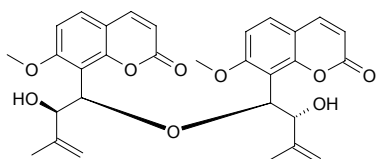
C₂₂H₂₂O₈ (414.42). Pale yellow gum, $[\alpha]_D^{25} = +29.0^\circ$ ($c = 0.547$, CHCl₃). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.0014%). Ref: 4733.

**2484 4,6-Bis(4-methylpent-3-en-1-yl)-6-methylcyclohexa-1,3-diene-carbaldehyde**

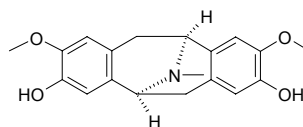
C₂₀H₃₄O (290.49). Pharm: Affinity to nAChR ($\alpha 4\beta 2^*$ subtype, $K_i > 50000$ nmol/L, control (-)-Nicotine, $K_i = (0.838 \pm 0.132)$ nmol/L; $\alpha 7^*$ subtype, $K_i > 50000$ nmol/L, (-)-Nicotine, $K_i = (127 \pm 5)$ nmol/L)^[5029]. Source: BEI HAI XIAN TAI CHONG *Flustra foliacea* Ref: 5029.

**2485 Bismurrangatin**

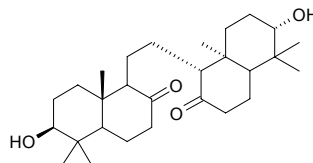
C₃₀H₃₀O₉ (534.57). Colorless oil, $[\alpha]_D = +2.5^\circ$ ($c = 0.14$, MeOH). Source: ZHONG HUA JIU LI XIANG *Murraya exotica* (vegetative branches). Ref: 4510.

**2486 Bisnorargemonine**

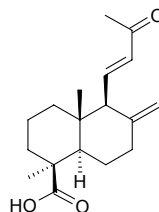
C₁₉H₂₁NO₄ (327.38). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**2487 26,27-Bisnor-8,14-dioxo- α -onocerin**

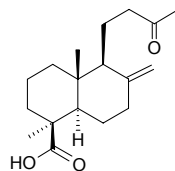
C₂₈H₄₆O₄ (446.68). Source: YU BAI SHI SONG *Lycopodium obscurum*. Ref: 660.

**2488 15,16-Bisnor-13-oxo-8(17),11E-labdadien-19-oic acid**

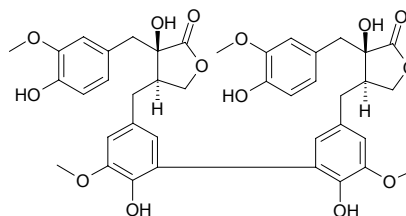
C₁₈H₂₆O₃ (290.41). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*]. Ref: 660.

**2489 15,16-Bisnor-13-oxo-8(17)-labden-19-oic acid**

C₁₈H₂₈O₃ (292.42). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*]. Ref: 660.

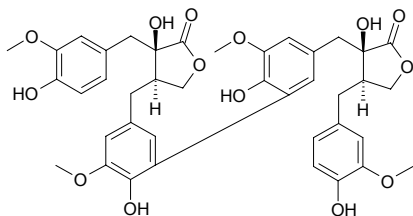
**2490 Bis-5,5-nortrachlogenin**

C₄₀H₄₂O₁₄ (746.77). Light yellow oil, $[\alpha]_D^{23} = +55.0^\circ$ ($c = 0.10$, MeOH). Pharm: NO production inhibitor ($IC_{50} = 48.6$ μmol/L)^[4526]; DPPH scavenger ($IC_{50} = 133.2$ μmol/L)^[4526]. Source: LIAO GE WANG GEN *Wikstroemia indica*. Ref: 4526.

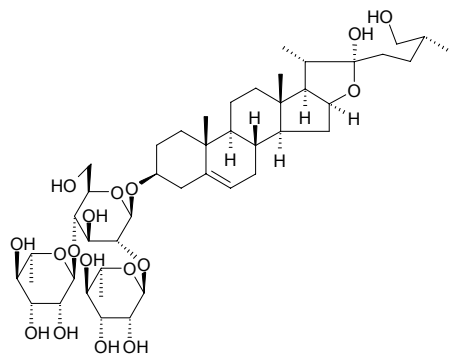


2491 Bis-5,5'-nortrachelogenin

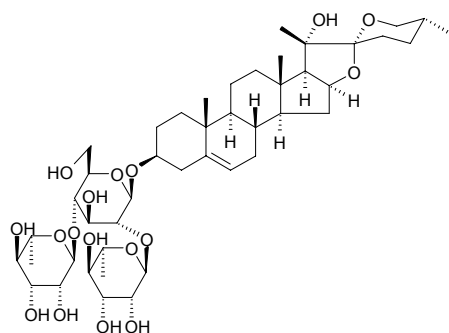
$C_{40}H_{42}O_{14}$ (746.77). Light yellow oil, $[\alpha]_D^{23} = +68.0^\circ$ ($c = 0.42$, MeOH). **Pharm:** NO production inhibitor inactive ($IC_{50} > 200\mu\text{mol/L}$)^[4526]; DPPH scavenger inactive ($IC_{50} > 200\mu\text{mol/L}$)^[4526]. **Source:** LIAO GE WANG GEN *Wikstroemia indica*. **Ref:** 4526.

**2492 3-O-[Bis- α -L-rhamnopyranosyl-(1 \rightarrow 2 and 1 \rightarrow 4)- β -D-glucopyranosyl]-25R-furost-5-ene-3 β ,22 α ,26-triol**

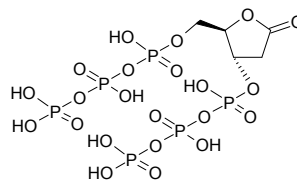
$C_{45}H_{74}O_{17}$ (887.08). White amorphous powder, $[\alpha]_D^{25} = -61.8^\circ$ ($c = 0.1$, pyridine). **Pharm:** Cytotoxic (*in vitro* A375, $IC_{50} = (17.88 \pm 1.12)\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.37 \pm 0.05)\mu\text{mol/L}$; L-929, $IC_{50} = (15.43 \pm 6.89)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.31 \pm 0.03)\mu\text{mol/L}$; HeLa, $IC_{50} = (9.87 \pm 5.48)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.19 \pm 0.03)\mu\text{mol/L}$). **Source:** HUANG SHAN YAO *Dioscorea panthaica* (rhizome). **Ref:** 5000.

**2493 3-O-[Bis- α -L-rhamnopyranosyl-(1 \rightarrow 2 and 1 \rightarrow 4)- β -D-glucopyranosyl]-22R,25R-spirost-5-ene-3 β ,20 α -diol**

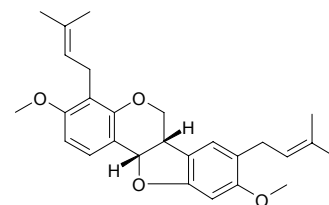
$C_{45}H_{72}O_{17}$ (885.07). White amorphous powder, mp 225–228°C, $[\alpha]_D^{25} = -55.0^\circ$ ($c = 0.1$, pyridine). **Pharm:** Cytotoxic (*in vitro*: A375, $IC_{50} = (1.23 \pm 0.82)\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.37 \pm 0.05)\mu\text{mol/L}$; L-929, $IC_{50} = (1.56 \pm 1.03)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.31 \pm 0.03)\mu\text{mol/L}$; HeLa, $IC_{50} = (1.18 \pm 0.81)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.19 \pm 0.03)\mu\text{mol/L}$). **Source:** HUANG SHAN YAO *Dioscorea panthaica* (rhizome). **Ref:** 5000.

**2494 3,4-trans-(erythro)-3,5-Bis(tripolyphosphate)-4-pentanolide**

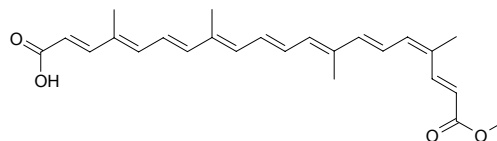
2-Deoxy-D-ribose-3,5-bis(tripolyphosphate)-1,4-lactone $C_5H_{14}O_{22}P_6$ (612.00). Colorless solid, mp. 189–190°C (MeOH), IR[25, D] = -1.9° ($c = 1.65$, H₂O). **Source:** GONG XING MA DOU LING *Aristolochia arcuata*. **Ref:** 2037.

**2495 Bitucarpin A**

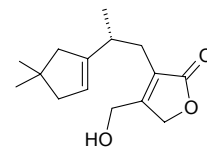
$C_{27}H_{32}O_4$ (420.55). $[\alpha]_D^{25} = -98^\circ$ ($c = 0.7$, MeOH). **Pharm:** Cytotoxic (KB, $IC_{50} > 75\mu\text{mol/L}$, control Helenalin, $IC_{50} = (0.64 \pm 0.08)\mu\text{mol/L}$, Melphalan, $IC_{50} = (6.0 \pm 0.5)\mu\text{mol/L}$; Mono-Mac-6, $IC_{50} > 75\mu\text{mol/L}$, Helenalin, $IC_{50} = (3.1 \pm 0.3)\mu\text{mol/L}$; Jurkat-T, $IC_{50} > 75\mu\text{mol/L}$, Helenalin, $IC_{50} = (1.14 \pm 0.08)\mu\text{mol/L}$, Melphalan, $IC_{50} = (9.1 \pm 0.8)\mu\text{mol/L}$). **Source:** *Bituminaria morisiana* (leaf). **Ref:** 5077.

**2496 Bixin**

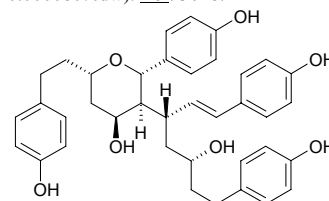
α -Bixin $C_{25}H_{30}O_4$ (394.52). **Pharm:** Orange pigment. **Source:** HONG MU *Bixa orellana*. **Ref:** 658, 1521, 5507.

**2497 Blennin C**

$C_{15}H_{22}O_3$ (250.34). **Source:** MEI WEI HONG GU *Russula delica* (sporocarp). **Ref:** 4374.

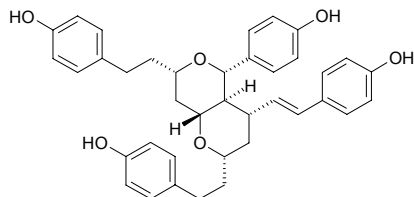
**2498 Blepharocalyxin C**

$C_{38}H_{42}O_7$ (610.75). Light yellow amorphous solid, $[\alpha]_D^{25} = +63.5^\circ$ ($c = 0.035$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 29.6\mu\text{mol/L}$, control 5-FU, $ED_{50} = 0.53\mu\text{mol/L}$; HT1080, $ED_{50} = 54.3\mu\text{mol/L}$, 5-FU, $ED_{50} = 8.0\mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000080%dw). **Ref:** 3048.

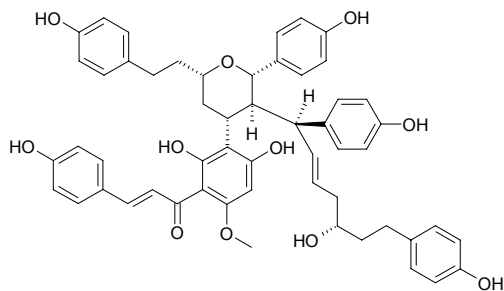


2499 Blepharocalyxin D

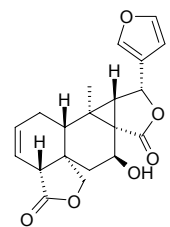
$C_{38}H_{40}O_6$ (592.74). Light yellow amorphous solid, $[\alpha]_D^{25} = +18.5^\circ$ ($c = 0.025$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 3.61\mu\text{mol/L}$, control 5-FU, $ED_{50} = 0.53\mu\text{mol/L}$; HT1080, $ED_{50} = 25.7\mu\text{mol/L}$, 5-FU, $ED_{50} = 8.0\mu\text{mol/L}$)^[3048]. **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000055%dw)^[3048]. **Ref:** 3035, 3048.

**2500 Blepharocalyxin E**

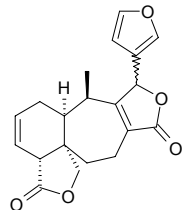
$C_{54}H_{54}O_{11}$ (879.03). Light yellow amorphous solid, $[\alpha]_D^{25} = +145.5^\circ$ ($c = 0.025$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 32.2\mu\text{mol/L}$, control 5-FU, $ED_{50} = 0.53\mu\text{mol/L}$; HT1080, $ED_{50} = 9\mu\text{mol/L}$, 5-FU, $ED_{50} = 8.0\mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000070%dw). **Ref:** 3048.

**2501 Blepharolide A**

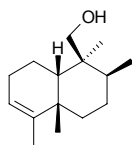
[260969-76-4] $C_{20}H_{20}O_6$ (356.38). Colorless crystals, mp 252–254°C, $[\alpha]_D^{20} = -13.7^\circ$ ($c = 0.204$, CHCl_3). **Source:** JIE MAO YE SHU WEI CAO *Salvia blepharophylla*. **Ref:** 2411.

**2502 Blepharolide B**

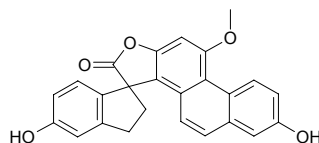
[260969-77-5] $C_{20}H_{20}O_5$ (340.38). Colorless crystals, mp 260–262°C, $[\alpha]_D^{20} = -98.1^\circ$ ($c = 0.212$, CHCl_3). **Source:** JIE MAO YE SHU WEI CAO *Salvia blepharophylla*. **Ref:** 2411.

**2503 Blepharostol**

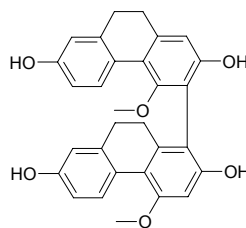
$C_{15}H_{26}O$ (222.37). Colorless oil, $[\alpha]_D^{20} = +27.8^\circ$ ($c = 0.19$, CHCl_3). **Source:** JIE MAO TAI *Blepharostoma trichophyllum*. **Ref:** 3843.

**2504 Blespirol**

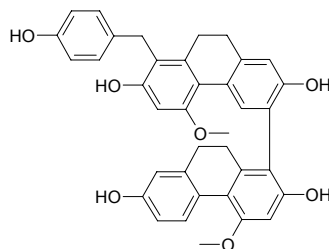
$C_{25}H_{18}O_5$ (398.42). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2505 Blestrianol A**

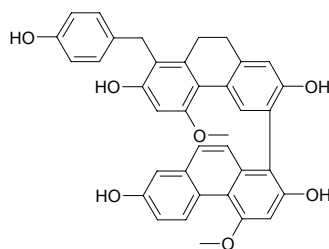
[136966-83-1] $C_{30}H_{26}O_6$ (482.54). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2506 Blestrianol B**

[136966-84-2] $C_{37}H_{32}O_7$ (588.66). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

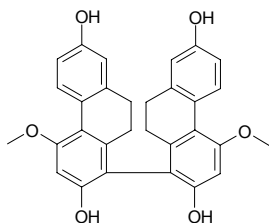
**2507 Blestrianol C**

[136966-85-3] $C_{37}H_{30}O_7$ (586.65). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

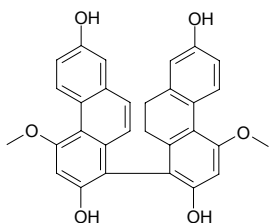


2508 Blestriarene A

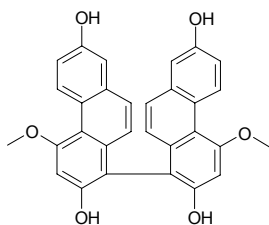
$C_{30}H_{26}O_6$ (482.54). Colorless crystals. **Pharm:** Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (86.8 \pm 1.1)\mu\text{mol/L}$, $p < 0.01$; $300\mu\text{mol/L}$ control Ketotifen fumarate, $\text{InRt} = (72.5 \pm 0.9)\mu\text{mol/L}$, $p < 0.01$)^[5022]. **Source:** BAI JI *Bletilla striata*, SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 660, 5022.

**2509 Blestriarene B**

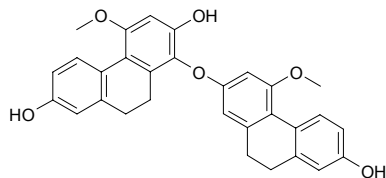
[127211-03-4] $C_{30}H_{24}O_6$ (480.52). **Pharm:** Antibacterial (*Staphylococcus aureus* and *Streptococcus mutans*). **Source:** BAI JI *Bletilla striata*, LAN YU BAI JI *Bletilla formosana* (whole herb). **Ref:** 658, 4500.

**2510 Blestriarene C**

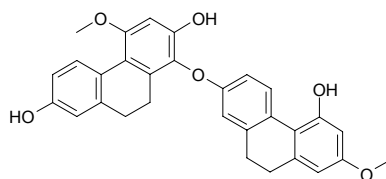
$C_{30}H_{22}O_6$ (478.51). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2511 Blestrin A**

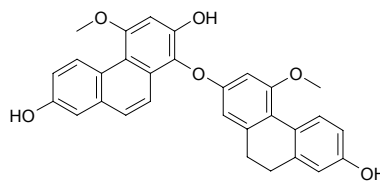
$C_{30}H_{26}O_6$ (482.54). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2512 Blestrin B**

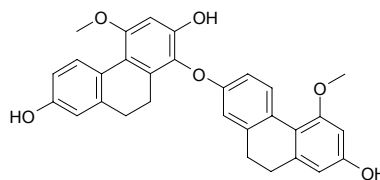
$C_{30}H_{26}O_6$ (482.54). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2513 Blestrin C**

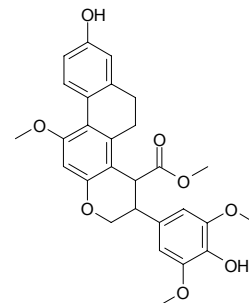
$C_{30}H_{24}O_6$ (480.52). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2514 Blestrin D**

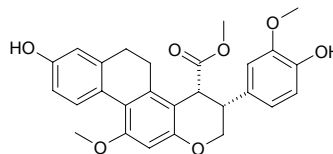
$C_{30}H_{26}O_6$ (482.54). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2515 Bletilol A**

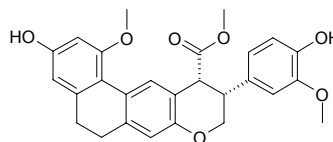
$C_{28}H_{28}O_8$ (492.53). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2516 Bletilol B**

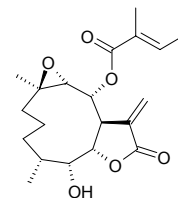
$C_{27}H_{26}O_7$ (462.50). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

**2517 Bletilol C**

$C_{27}H_{26}O_7$ (462.50). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.

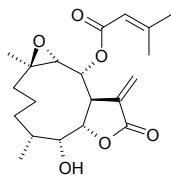
**2518 Blumealactone A**

$C_{20}H_{28}O_6$ (364.44). **Source:** AI NA XIANG *Blumea balsamifera*. **Ref:** 660.

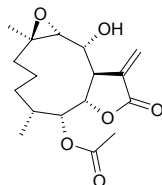


2519 Blumealactone B

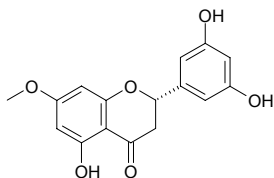
$C_{20}H_{28}O_6$ (364.44). Source: AI NA XIANG *Blumea balsamifera*. Ref: 660.

**2520 Blumealactone C**

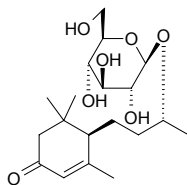
$C_{17}H_{24}O_6$ (324.38). Source: AI NA XIANG *Blumea balsamifera*. Ref: 660.

**2521 Blumeatin**

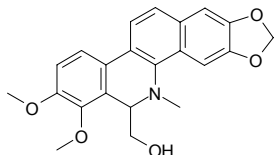
5,3',5'-Trihydroxy-7-methoxy dihydroflavone $C_{16}H_{14}O_6$ (302.29). Source: AI NA XIANG *Blumea balsamifera*. Ref: 660.

**2522 Blumenol C glucoside**

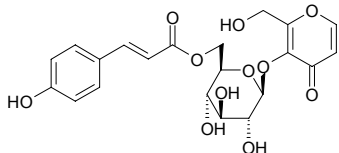
(6*S*,9*R*)-Megastigman-3-on-4-en-9-ol 9-*O*- β -*D*-glucopyranoside $C_{19}H_{32}O_7$ (372.46). Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). Ref: 4323.

**2523 Boconoline**

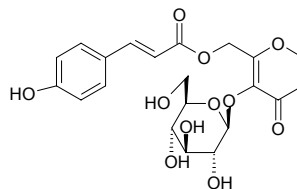
$C_{22}H_{21}NO_5$ (379.42). Source: BO LUO HUI *Macleaya cordata*, RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 660.

**2524 Bockioside A**

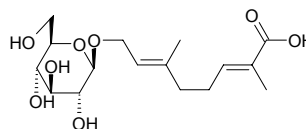
Hyxymaltol 3-*O*-(6-*O*-*p*-coumaryl)- β -*D*-glucopyranoside $C_{21}H_{22}O_{11}$ (450.40). Colorless amorphous solid, $[\alpha]_D^{25} = -73.8^\circ$ ($c = 1.3$, MeOH). Source: XI NAN BA QIA *Smilax bockii* (tuber). Ref: 3773.

**2525 Bockioside B**

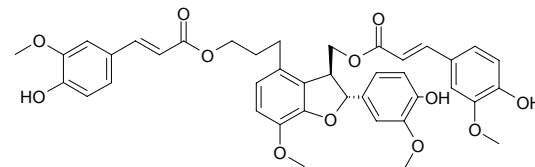
7-*O*-*p*-Coumaroylhydroxymaltol 3-*O*- β -*D*-glucopyranoside $C_{21}H_{22}O_{11}$ (450.40). Colorless amorphous solid, $[\alpha]_D^{25} = -21.3^\circ$ ($c = 0.3$, MeOH). Source: XI NAN BA QIA *Smilax bockii* (tuber). Ref: 3773.

**2526 Bodinierin**

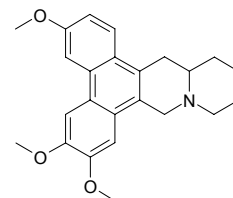
$C_{16}H_{26}O_8$ (346.38). White powder, mp 180°C (dec). Source: FENG WEI CHA *Elsholtzia bodinieri* (whole herb). Ref: 4590.

**2527 Boehmenan**

[57296-22-7] $C_{40}H_{40}O_{12}$ (712.76). Powder. Pharm: Anti-HIV (H9 lymphocytic cells, inhibits replication, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) = 19.42 μ g/mL)^[2529]; cytotoxic (hmn, A549, EC_{50} = 18.4 μ g/mL, MCF7, EC_{50} = 10.9 μ g/mL)^[2529]. Source: CHI MA *Boehmeria platanifolia* [Syn. *Boehmeria tricuspidis*], TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 660, 1521, 2529.

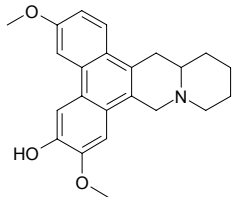
**2528 Boehmeriasin A**

$C_{24}H_{27}NO_3$ (377.49). White needles (CH_2Cl_2 - CH_3OH), mp 216–218°C, $[\alpha]_D^{20} = -80.4^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (K562, GI_{50} = 100ng/mL; HL-60, GI_{50} = 5ng/mL; DU145, GI_{50} = 2ng/mL; PC3, GI_{50} = 5ng/mL; A549, GI_{50} = 0.3ng/mL; NCI-H460, GI_{50} = 0.3ng/mL; MCF7, GI_{50} = 5ng/mL; MDA-MB-231, GI_{50} = 3ng/mL; ACHN, GI_{50} = 0.3ng/mL; UO-31, GI_{50} = 0.4ng/mL; HT29, GI_{50} = 0.2ng/mL; Colon205, GI_{50} = 0.3ng/mL; control Taxol, GI_{50} = >100ng/mL, 77 ng/mL, 40ng/mL, 44 ng/mL, 30ng/mL, 20ng/mL, 80ng/mL, 40ng/mL, >100ng/mL, >100ng/mL, 40ng/mL, 40ng/mL, respectively)^[5450]. Source: SHU XU ZHU MA *Boehmeria siamensis*. Ref: 5450.

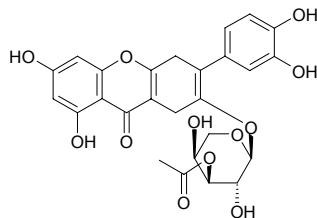


2529 Boehmeriasin B

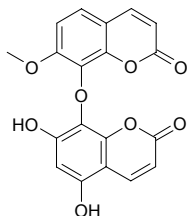
$C_{23}H_{25}NO_3$ (363.46). White powder (CH_2Cl_2 - CH_3OH), mp 248–250°C, $[\alpha]_D^{20} = -63.7^\circ$ ($c = 0.2$, MeOH). **Pharm:** Cytotoxic (lower activity than Boehmeriasin A). **Source:** SHU XU ZHU MA *Boehmeria siamensis*. **Ref:** 5450.

**2530 Boehmerin**

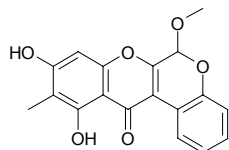
$C_{26}H_{24}O_{12}$ (528.47). **Source:** CHI MA *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*]. **Ref:** 660.

**2531 Boennin**

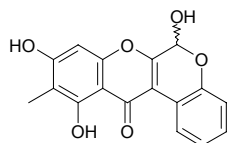
$C_{19}H_{12}O_8$ (368.30). **Source:** SHI JIAO CAO *Boenninghausenia sessilicarpa*, YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**2532 Boeravinone A**

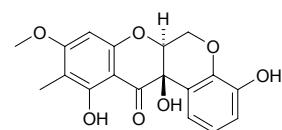
$C_{18}H_{14}O_6$ (326.31). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2533 Boeravinone B**

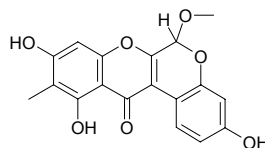
$C_{17}H_{12}O_6$ (312.28). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2534 Boeravinone C**

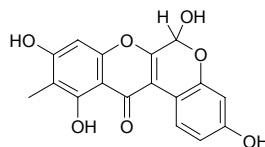
$C_{18}H_{16}O_7$ (344.32). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2535 Boeravinone D**

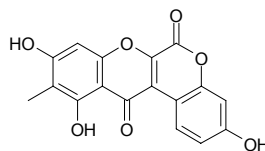
$C_{18}H_{14}O_7$ (342.31). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2536 Boeravinone E**

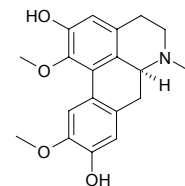
$C_{17}H_{12}O_7$ (328.28). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2537 Boeravinone F**

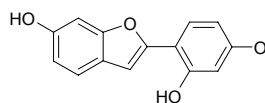
$C_{17}H_{10}O_7$ (326.27). **Source:** HUANG XI XIN *Boerhavia diffusa*. **Ref:** 660.

**2538 Boldine**

[476-70-0] $C_{19}H_{21}NO_4$ (327.38). **Pharm:** Choleric (bile secretion promotor); laxative; antihypercholesterolemic; antihepatotoxic; treatment of hepatic insufficiency. **Source:** BO LU DU SHU *Peumus boldus*, CHAN GAO MU JIANG ZI *Litsea glutinosa*, LI FEI MU JIANG ZI *Litsea lefeana*, MEI ZHOU CHA MU *Sassafras albidum*, NI ZHAO MU JIANG ZI *Litsea turfosa*, YUE GUI SHU YE MU JIANG ZI *Litsea laurifolia*, ZHOU SHAN XIN MU JIANG ZI *Neolitsea sericea*. **Ref:** 658.

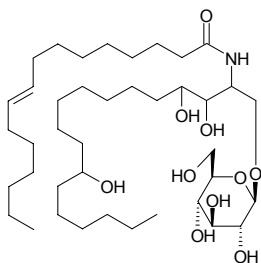
**2539 Bolusanthin IV**

6,6'-Dihydroxy-4'-methoxy-2-arylbenzofuran $C_{15}H_{12}O_4$ (256.26). Brown solid, mp 178–180°C. **Pharm:** Antibacterial (*Escherichia coli*, MIA = 0.5µg, control Chloramphenicol, MIA = 0.001µg; *Bacillus subtilis*, MIA = 0.05µg, Chloramphenicol, MIA = 0.001µg; *Staphylococcus aureus*, MIA = 0.01µg, Chloramphenicol, MIA = 0.001µg); antifungal (*Candida mycoderma*, MIA = 0.05µg, Miconazole, MIA = 0.0001µg); antioxidant (DPPH scavenger, TLC detection limit = 0.1µg, $IC_{50} = 29\mu g/mL$; control Quercetin, TLC detection limit < 0.05µg, $IC_{50} = 7\mu g/mL$; Gallic acid, TLC detection limit < 0.05µg, $IC_{50} = 4\mu g/mL$; Ascorbic acid, TLC detection limit < 0.10µg, $IC_{50} = 18\mu g/mL$). **Source:** *Bolusanthus speciosus* (root wood). **Ref:** 3785.

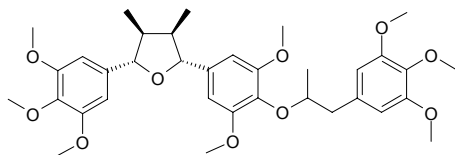


2540 Bonaroside

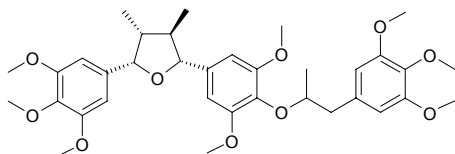
$C_{40}H_{77}NO_{10}$ (732.06). White powder, mp 172–174°C, $[\alpha]_D^{25} = +178.6^\circ$ ($c = 0.14$, MeOH). Source: XIANG SI CAO *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*] (aerial parts). Ref: 5206.

**2541 Bonaspectin A**

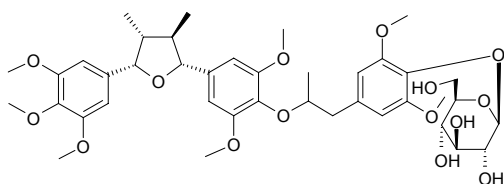
$C_{35}H_{46}O_{10}$ (626.75). Oil. Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**2542 Bonaspectin B**

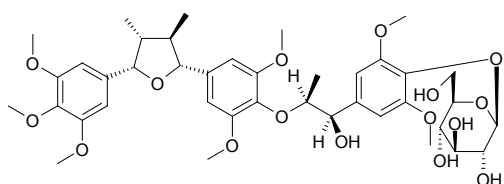
$C_{35}H_{46}O_{10}$ (626.75). Oil, $[\alpha]_D^{20} = +11.5^\circ$ ($c = 0.2$, $CHCl_3$). Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**2543 Bonaspectin C 4''-β-glucoside**

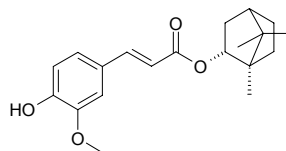
$C_{40}H_{54}O_{15}$ (774.87). Oil, $[\alpha]_D^{20} = +12.4^\circ$ ($c = 0.23$, $CHCl_3$). Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**2544 Bonaspectin D 4''-β-glucoside**

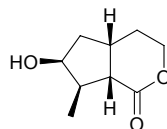
$C_{40}H_{54}O_{16}$ (790.87). Oil, $[\alpha]_D^{20} = +15.3^\circ$ ($c = 0.3$, $CHCl_3$). Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**2545 (-)-Bonyl ferulate**

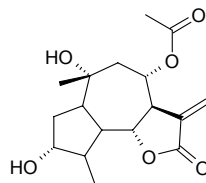
$C_{20}H_{26}O_4$ (330.43). $[\alpha]_D^{22} = -31.7^\circ$ ($c = 1$, EtOH). Source: QIANG HUO *Notopterygium incisum*. Ref: 723.

**2546 Boonein**

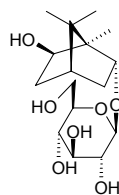
$C_9H_{14}O_3$ (170.21). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2528.

**2547 Borenolide**

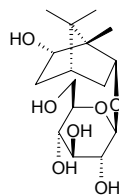
$C_{17}H_{24}O_6$ (34.38). Pharm: Anti-apoptosis (etoposide-induced, $IC_{50} = (6.2 \pm 0.7) \mu g/mL$; control PDTC, $IC_{50} = (8.0 \pm 0.5) \mu g/mL$)^[5455]. Source: BEI YE JU *Chrysanthemum boreale*. Ref: 5455.

**2548 (1R,2R,4S,6R)-Bornane-2,6-diol 2-O-β-D-glucopyranoside**

$C_{16}H_{28}O_7$ (332.40). Source: SUO SHA MI *Amomum xanthioides* (seed). Ref: 4365.

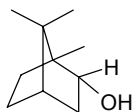
**2549 (1S,2S,4R,6S)-Bornane-2,6-diol 2-O-β-D-glucopyranoside**

$C_{16}H_{28}O_7$ (332.40). Colorless needles (MeOH), mp 114–116°C, $[\alpha]_D^{23} = +9^\circ$ ($c = 0.8$, MeOH). Source: SUO SHA MI *Amomum xanthioides* (seed). Ref: 4365.

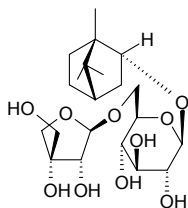


2550 Borneol

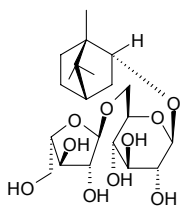
1,7,7-Trimethyl endo-bicyclo[2.2.1]heptan-2-ol $C_{10}H_{18}O$ (154.25). mp 208°C, bp 212°C. **Pharm:** Antibacterial (D-isomer, 0.5%); anthelmintic; antispasmodic; stimulant (D-isomer); analgesic (D-isomer); induces sweating; LD₅₀ (mus, ip) = 907mg/kg. **Source:** AI NA XIANG *Blumea balsamifera*, BAI CHANG *Acorus calamus*, BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BING PIAN *Dryobalanops aromatica* (58.93%~59.78%), DA CAO KOU *Alpinia speciosa*, DU SONG SHI *Juniperus rigida*, GANG SONG *Baeckea frutescens*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (dried capitulum: mean content of 3 origins = 0.911%^[5508]), LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], MI DIE XIANG *Rosmarinus officinalis*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0019%^[3026]), SHA REN *Amomum villosum* (dried ripe fruit: mean content = 0.031%^[5524]), SHAN NAI *Kaempferia galanga*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*], SHUANG YE XI XIN *Asarum caulescens*, SUO SHA MI *Amomum xanthioides*, XIE CAO *Valeriana officinalis*, YANG SHI CAO *Achillea millefolium*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], occurs in many plants. **Ref:** 1, 2, 660, 3026, 5501, 5508, 5524.

**2551 Borneol-2-O-β-D-apiofuranosyl(1→6)-β-D-glucopyranoside**

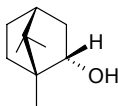
$C_{21}H_{36}O_{10}$ (448.52). **Source:** MAI DONG *Ophiopogon japonicus*. **Ref:** 660.

**2552 Borneol-2-O-α-L-arabinofuranosyl(1→6)-β-D-glucopyranoside**

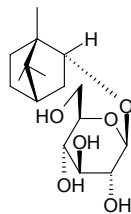
$C_{21}H_{36}O_{10}$ (448.52). **Source:** MAI DONG *Ophiopogon japonicus*. **Ref:** 660.

**2553 D-Borneol**

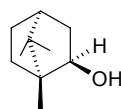
(+)-(1R,2S)-Borneol [464-43-7] $C_{10}H_{18}O$ (154.25). **Source:** BING PIAN *Dryobalanops aromatica*. **Ref:** 2.

**2554 Borneol-2-O-β-D-glucopyranoside**

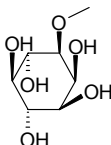
$C_{16}H_{28}O_6$ (316.40). **Source:** MAI DONG *Ophiopogon japonicus*. **Ref:** 660.

**2555 L-Borneol**

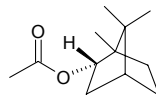
(-)-(1S,2R)-Borneol [464-45-9] $C_{10}H_{18}O$ (154.25). mp 204°C, bp 210°C/779mmHg. **Source:** AI NA XIANG *Blumea balsamifera*, GANG SONG *Baeckea frutescens*, SHE XIANG CAO *Thymus vulgaris*, YANG SHI CAO *Achillea millefolium*, YE XIANG MAO *Cymbopogon goeringii*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. **Ref:** 6, 660.

**2556 L(+)-Bornesitol**

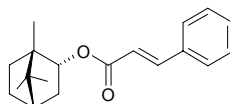
1-O-Methyl-myo-inositol $C_7H_{14}O_6$ (194.19). mp 201~203°C. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], JIANG LI MU GEN *Rhamnus leptophylla*. **Ref:** 6.

**2557 Bornyl acetate**

$C_{12}H_{20}O_2$ (196.29). (+) Crystals, mp 29°C; bp 225~226°C. **Pharm:** Antitussive (dispels phlegm). **Source:** HAI NAN SHA REN *Amomum longiligulare* (dried ripe fruit: mean content = 1.40%^[5508]), MI DIE XIANG *Rosmarinus officinalis*, SHA REN *Amomum villosum* (dried ripe fruit: mean content of 19 origins = 2.10%^[5508]; mean content = 0.160%^[5524]), SHAN HU JIAO *Lindera glauca*, SUO SHA MI *Amomum xanthioides* (dried ripe fruit: mean content = 1.53%^[5508]), YANG SHI CAO *Achillea millefolium*. **Ref:** 658, 661, 5501, 5508, 5524.

**2558 Bornyl cinnamate**

$C_{20}H_{28}O_2$ (300.44). **Source:** LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*]. **Ref:** 660.

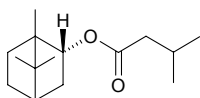


2559 Bornylene

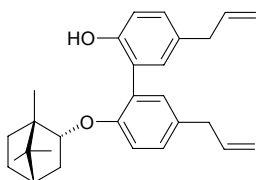
$C_{10}H_{16}$ (136.24). Source: CHENG GAN CAO *Eupatorium japonicum*, HUA ZE LAN *Eupatorium chinense*, QU CHONG BAN JIU JU *Vernonia anthelmintica*, ROU DOU KOU *Myristica fragrans*. Ref: 660.

**2560 Bornyl isovalerianate**

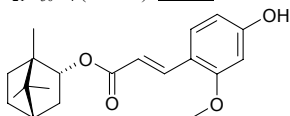
[76-50-6] $C_{15}H_{26}O_2$ (238.37). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2.

**2561 Bornylmagnolol**

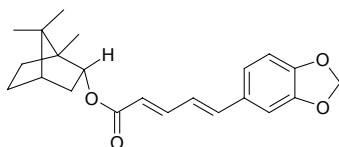
$C_{28}H_{34}O_2$ (402.58). Source: HOU PO *Magnolia officinalis*. Ref: 2, 660.

**2562 Bornyl-2-methoxy-4-hydroxycinnamate**

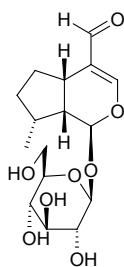
$C_{21}H_{30}O_4$ (346.47). Source: SHE TAI *Conocephalum conicum*. Ref: 660.

**2563 (+)-Bornyl piperate**

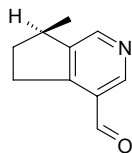
$C_{22}H_{26}O_4$ (354.45). Colorless needles, mp 93~95°C (hexane), $[\alpha]_D^{27} = +7.80^\circ$ ($c = 0.1$, $CHCl_3$). Source: *Piper* aff. *pedicellatum* (underground root). Ref: 4296.

**2564 Boschnaloside**

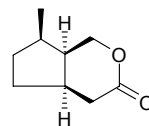
$C_{16}H_{24}O_8$ (344.36). Pharm: Enhances sex drive (male mouse with stress loading); antioxidant; anti-ischemia myocardial (coronary arteries-ligated rat, significant improvement in ECG parameters, reduces the area of cardiac muscle infarction, enhances SOD activity and CPK activity in cardiac muscles); SOD activity enhancer (mouse erythrocytes); reduces MDA content (mouse serum); antimutagenic (mouse). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 5501.

**2565 Boschniakine**

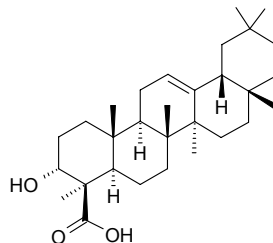
[18070-40-1] $C_{10}H_{11}NO$ (161.21). bp 80~90°C/3mmHg. Source: CAO CONG RONG *Boschniakia rossica*. Ref: 6.

**2566 Boschnialactone**

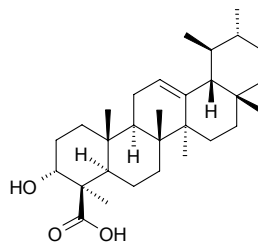
[17957-87-8] $C_9H_{14}O_2$ (154.21). bp 105~112°C/6mmHg. Pharm: Stimulant (cat). Source: CAO CONG RONG *Boschniakia rossica*. Ref: 6, 658.

**2567 α -Boswellic acid**

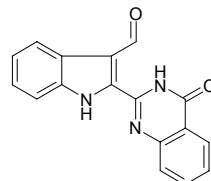
3 α -Hydroxy-12-oleanen-24-oic acid [471-66-9] $C_{30}H_{48}O_3$ (456.72). mp 289°C. Source: RU XIANG *Boswellia carterii*. Ref: 6.

**2568 β -Boswellic acid**

[631-69-6] $C_{30}H_{48}O_3$ (456.72). mp 238~240°C. Source: RU XIANG *Boswellia carterii*. Ref: 6.

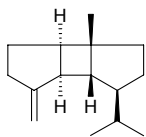
**2569 Bouchardatine**

2-(2-[3-Tormylindolyl])-(3H)-quinazolin-4-one $C_{17}H_{11}N_3O_2$ (289.30). Yellow amorphous powder. Source: *Bouchardatia neurococca*. Ref: 3445.

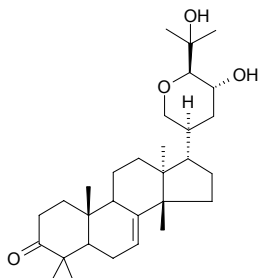


2570 β -Bourbonene

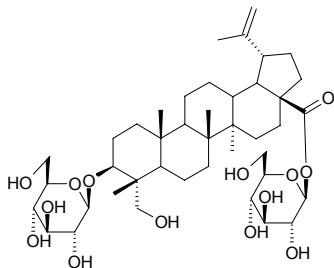
[5208-59-3] C₁₅H₂₄ (204.36). Source: MU HAO *Artemisia japonica*, HUANG HUA HAO *Artemisia annua*. Ref: 6, 660.

**2571 Bourjotinolone A**

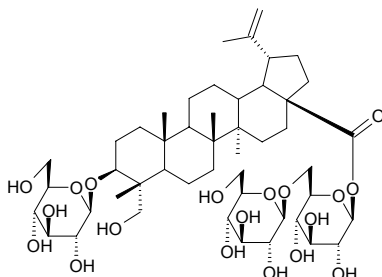
C₃₀H₄₈O₄ (472.71). Source: *Eurycoma* sp. Ref: 4556.

**2572 Bourneioside A**

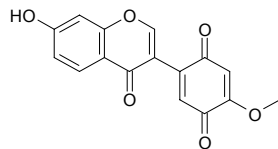
3-*O*- β -*D*-Glucopyranosyl-23-hydroxy-lup-20(29)-en-28-oic acid-28-*O*- β -*D*-glucopyranosyl ester C₄₂H₆₈O₁₄ (797.00). White crystals (MeOH), mp 205~207°C, [α]_D²¹ = +55.0° (*c* = 0.1, MeOH). Source: XI NAN REN DONG *Lonicera bournei* (flower bud). Ref: 3986.

**2573 Bourneioside B**

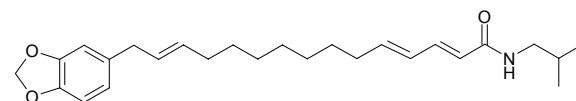
3-*O*- β -*D*-Glucopyranosyl-23-hydroxy-lup-20(29)-en-28-oic acid-28-*O*-[β -*D*-glucopyranosyl-(1→6)- β -*D*-glucopyranosyl]ester C₄₈H₇₈O₁₉ (959.15). White crystals (MeOH), mp 214~216°C, [α]_D²¹ = +40.0° (*c* = 0.1, MeOH). Source: XI NAN REN DONG *Lonicera bournei* (flower bud). Ref: 3986.

**2574 Bowdichione**

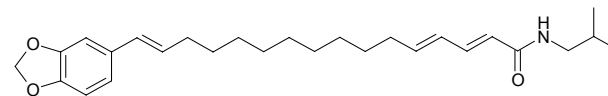
[53774-75-7] C₁₆H₁₀O₆ (298.25). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**2575 Brachystamide C**

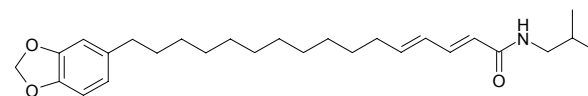
C₂₆H₃₇NO₃ (411.59). White amorphous solid, mp 90~95°C. Source: DUAN SUI HU JIAO *Piper brachystachyum*. Ref: 2013.

**2576 Brachystamide D**

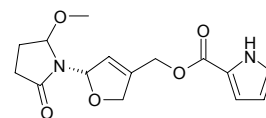
C₂₇H₃₉NO₃ (425.62). White amorphous solid, mp 88~90°C. Source: CHANG GUO BI BA *Piper retrofractum*, DUAN SUI HU JIAO *Piper brachystachyum*. Ref: 2013.

**2577 Brachystamide E**

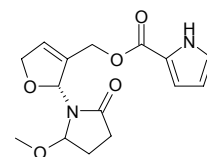
C₂₇H₄₁NO₃ (427.63). Source: DUAN SUI HU JIAO *Piper brachystachyum*. Ref: 2013.

**2578 Brachystemidine A**

C₁₅H₁₈N₂O₅ (306.32). White solid, mp 210~211.5°C, [α]_D²⁸: laevo but unstable (*c* = 0.24, MeOH). Source: DUAN BAN HUA *Brachystemma calycinum* (root: yield = 0.00004%dw). Ref: 4629.

**2579 Brachystemidine B**

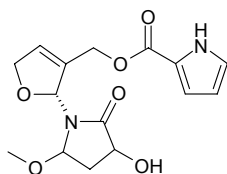
C₁₅H₁₈N₂O₅ (306.32). White solid, mp 151~152°C, [α]_D²⁷ = -3.1° (*c* = 0.32, MeOH) Source: DUAN BAN HUA *Brachystemma calycinum* (root: yield = 0.000005%dw). Ref: 4629.



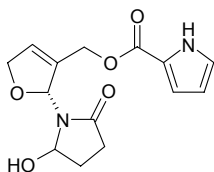
2580 Brachystemidine C

$C_{15}H_{18}N_2O_6$ (322.32). Colorless gum, $[\alpha]_D^{21} = -21.0^\circ$ ($c = 0.25$, $CHCl_3$).

Source: DUAN BAN HUA *Brachystemma calycinum* (root: yield = 0.00002%dw). Ref: 4629.

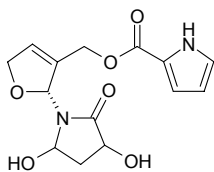
**2581 Brachystemidine D**

$C_{14}H_{16}N_2O_5$ (292.29). Colorless block, mp 147.5~149°C, $[\alpha]_D^{25} = +3.52^\circ$ ($c = 0.43$, MeOH). Source: DUAN BAN HUA *Brachystemma calycinum* (root: yield = 0.000004%dw). Ref: 4629.

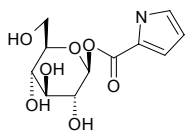
**2582 Brachystemidine E**

$C_{14}H_{16}N_2O_6$ (308.29). Colorless gum, $[\alpha]_D^{28} = +0.76^\circ$ ($c = 1.65$, MeOH).

Source: DUAN BAN HUA *Brachystemma calycinum* (root: yield = 0.000008%dw). Ref: 4629.

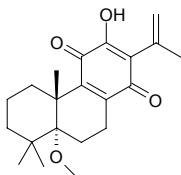
**2583 Brachystemoside A**

1'- β -D-Glucopyranosyl-2-pyrrole-carboxylate $C_{11}H_{15}NO_7$ (273.24). Colorless oil. Source: DUAN BAN HUA *Brachystemma calycinum*. Ref: 2146.

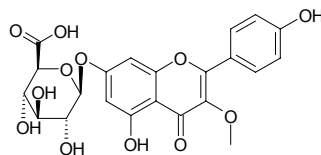
**2584 Bractealine**

5-Methoxy-12-hydroxy-11,14-dioxo-abieta-8,12,15-triene $C_{21}H_{28}O_4$ (344.45).

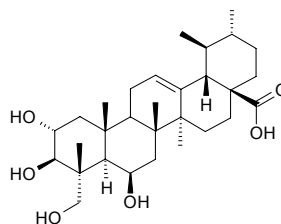
$[\alpha]_D = 0^\circ$ ($c = 0.8$, $CHCl_3$). Pharm: Antibacterial (*Bacillus subtilis*, MIC = 32.9 μ g/mL; *Staphylococcus epidermidis*, MIC = 16.80 μ g/mL)^[2406]. Source: BAO PIAN SHU WEI CAO *Salvia bracteata* (root). Ref: 2406.

**2585 Bracteoside**

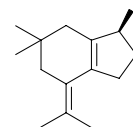
Isokaempferide 7-O- β -D-glucopyranouronide $C_{22}H_{20}O_{12}$ (476.40). Pale yellow solid, $[\alpha]_D^{20} = -42.3^\circ$ ($c = 0.10$, MeOH). Source: BAO PIAN SHI CHE JU *Centaurea bracteata* (aerial parts). Ref: 5151.

**2586 Brahmic acid**

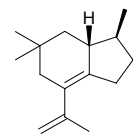
Madecassic acid [18449-41-7] $C_{30}H_{48}O_6$ (504.71). mp 293°C. Source: JI XUE CAO *Centella asiatica*. Ref: 6.

**2587 Brasila-1(6),5(10)-diene**

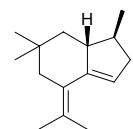
$C_{15}H_{24}$ (204.36). Source: SHE TAI *Conocephalum conicum*. Ref: 2299.

**2588 Brasila-5,10-diene**

$C_{15}H_{24}$ (204.36). Source: SHE TAI *Conocephalum conicum*. Ref: 2299.

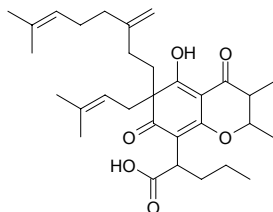
**2589 Brasila-5(10),6-diene**

$C_{15}H_{24}$ (204.36). Source: SHE TAI *Conocephalum conicum*. Ref: 2299.

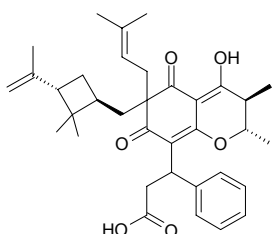


2590 Brasiliensic acid

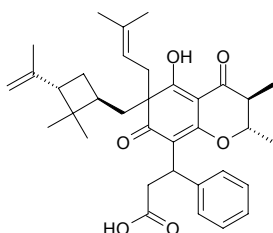
$C_{31}H_{44}O_6$ (512.69). **Pharm:** Cytotoxic (KB, $IC_{50} = 11.0\mu\text{g/mL}$); antibacterial (*Staphylococcus aureus*, $20\mu\text{g/disk}$, $DIZ = 11.0\text{mm}$; *Escherichia coli*, $20\mu\text{g/disk}$, inactive; *Vibrio anguillarum*, $20\mu\text{g/disk}$, inactive); antifungal inactive (*Candida tropicalis*, $20\mu\text{g/disk}$). **Source:** BA XI HU TONG *Calophyllum brasiliense*, HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). **Ref:** 1521, 3866.

**2591 Brasiliensophyllic acid A**

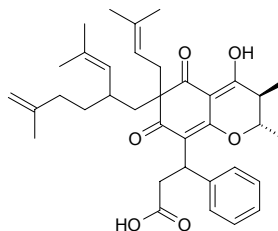
3-[*rel*-(2*R*,3*R*)-4-Hydroxy-6-(3*α*-isopropenyl-2,2-dimethylcyclobutyl- β -methyl)-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid $C_{35}H_{44}O_6$ (560.74). Green gum, $[\alpha]_D^{20} = -5^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, $MIC = 1\mu\text{g/mL}$; control Chloramphenicol, $MIC = 4\mu\text{g/mL}$; *Staphylococcus epidermidis*, $MIC = 16\mu\text{g/mL}$, Chloramphenicol, $MIC = 4\mu\text{g/mL}$); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, $20\mu\text{g/mL}$). **Source:** BA XI HU TONG *Calophyllum brasiliense* (bark: yield = 0.0030%dw). **Ref:** 3019.

**2592 Brasiliensophyllic acid B**

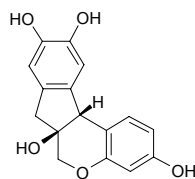
3-[*rel*-(2*R*,3*R*)-4-Hydroxy-6-(3*α*-isopropenyl-2,2-dimethylcyclobutyl- β -methyl)-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid $C_{35}H_{44}O_6$ (560.74). Yellow gum, $[\alpha]_D^{20} = -25^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, $MIC = 4\mu\text{g/mL}$; control Chloramphenicol, $MIC = 4\mu\text{g/mL}$; *Staphylococcus epidermidis*, $MIC = 16\mu\text{g/mL}$, Chloramphenicol, $MIC = 4\mu\text{g/mL}$); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, $20\mu\text{g/mL}$). **Source:** BA XI HU TONG *Calophyllum brasiliense* (bark: yield = 0.0005%dw). **Ref:** 3019.

**2593 Brasiliensophyllic acid C**

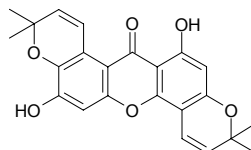
3-[*rel*-(2*R*,3*R*)-4-Hydroxy-2,3-dimethyl-6-(3-methylbut-2-enyl)-6-[5-methyl-2-(2-methylpropenyl)hex-5-enyl]-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid $C_{36}H_{46}O_6$ (574.76). Green gum, $[\alpha]_D^{20} = -30^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, $MIC = 16\mu\text{g/mL}$; control Chloramphenicol, $MIC = 4\mu\text{g/mL}$; *Staphylococcus epidermidis*, $MIC = 16\mu\text{g/mL}$, Chloramphenicol, $MIC = 4\mu\text{g/mL}$); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, $20\mu\text{g/mL}$). **Source:** BA XI HU TONG *Calophyllum brasiliense* (bark: yield = 0.001%dw). **Ref:** 3019.

**2594 Brasilin**

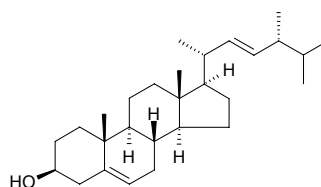
Brazilin [474-07-7] $C_{16}H_{14}O_5$ (286.29). Amber yellow crystals, turning orange when exposed to air and sun. $mp > 130^\circ\text{C}$ (dec); colorless acicular crystals, $mp 191\text{--}192.5^\circ\text{C}$. **Pharm:** Antibacterial; anti-inflammatory (rat, swollen foot model caused by carrageenan). **Source:** JI YUN SHI *Caesalpinia echinata*, SU MU *Caesalpinia sappan*. **Ref:** 1, 6, 660, 661, 4494.

**2595 Brasillixanthone A**

$C_{23}H_{20}O_6$ (392.41). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). **Ref:** 3482.

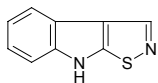
**2596 Brassicasterol**

24-Methylcholesta-5,22-dien-3 β -ol [474-67-9] $C_{28}H_{46}O$ (398.68). $mp 157\text{--}158^\circ\text{C}$, $mp 148^\circ\text{C}$. **Pharm:** One of components in plant epicyte. **Source:** SHE TAI *Conocephalum conicum*, WU MAO JUE *Blechnum orientale*, WU QING *Brassica rapa*, OU ZHOU YOU CAI *Brassica napus*, YUN TAI ZI *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*]. **Ref:** 6, 658, 1408, 1472, 1521.

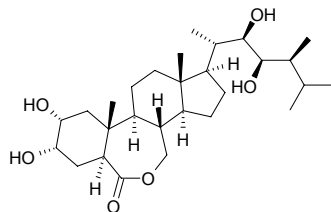


2597 Brassilexin

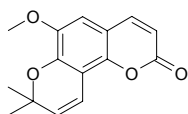
$C_9H_6N_2S$ (174.32). Source: JIE CAI *Brassica juncea*. Ref: 660.

**2598 Brassinolide**

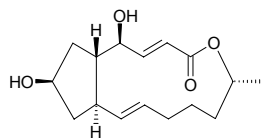
[72962-43-7] $C_{28}H_{48}O_6$ (480.69). Pharm: Insecticidal (anti-ecdysone); promotes cell division and growth of plants. Source: OU ZHOU YOU CAI *Brassica napus*. Ref: 658.

**2599 Braylin**

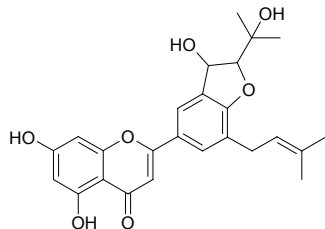
$C_{15}H_{14}O_4$ (258.28). Source: *Cedrelopsis grevei* (trunk bark). Ref: 5368.

**2600 Brefeldin A**

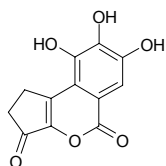
[20350-15-6] $C_{16}H_{24}O_4$ (280.37). Source: DANG GUI *Angelica sinensis*. Ref: 1521.

**2601 Breviflavone B**

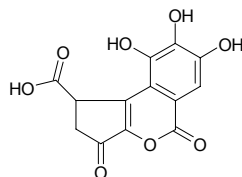
$C_{25}H_{26}O_7$ (438.48). Yellow powder, $[\alpha]_D^{27} = -43.6^\circ$ ($c = 0.003$, EtOH). Pharm: Cytotoxic (inhibits the growth of breast cancer cells)^[5053]. Source: YIN YANG HUO *Epimedium brevicornum* (leaf). Ref: 5053.

**2602 Brevifolin**

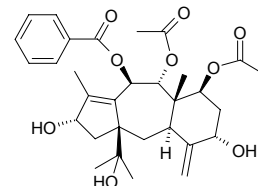
$C_{12}H_8O_6$ (248.19). Source: E BU SHI CAO *Centipeda minima*, QING GUO *Canarium album*. Ref: 660.

**2603 Brevifolincarboxylic acid**

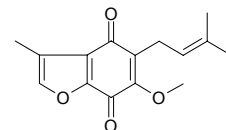
$C_{13}H_8O_8$ (292.20). Yellow amorphous powder, $[\alpha]_D^{20} = -18.3^\circ$ ($c = 0.9$, acetone). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). Ref: 3975.

**2604 Brevifoliol**

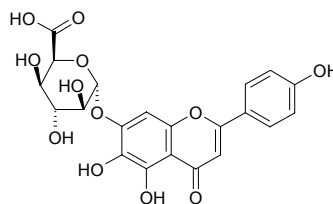
[134955-83-2] $C_{31}H_{40}O_9$ (556.66). mp 200–203°C. Pharm: Cytotoxic (KB, $IC_{50} = 0.4\mu\text{g/mL}$). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662, 1775.

**2605 Breviquinone**

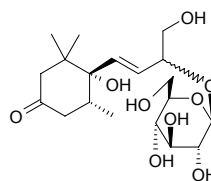
$C_{15}H_{16}O_4$ (260.29). Source: DUAN BAO YE SHA CAO *Cyperus brevibracteatus* (the compound was isolated from the plant by R.D.Allau, et al. in 1973). Ref: 5505.

**2606 Breviscapine**

$C_{21}H_{18}O_{12}$ (462.37). Purity > 98%. Pharm: Cardioprotective (*in vitro*, during hypoxia of cardiomyocytes)^[4074]; cardioprotective (*in vivo*, during myocardial infarction)^[4074]; Potassium channel activator; Calcium channel blocker. Source: DENG ZHAN XI XIN *Erigeron breviscapus*. Ref: 4074.

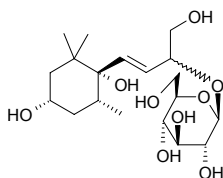
**2607 Breyniaionoside A**

(5*R*,6*S*,9*ξ*)-Megastigman-7-ene-6,9,10-triol-3-one 9-*O*-β-*D*-glucopyranoside $C_{19}H_{32}O_9$ (404.46). Amorphous powder, $[\alpha]_D^{27} = -48.8^\circ$ ($c = 1.21$, MeOH). Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

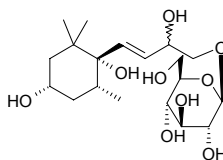


2608 Breyniaionoside B

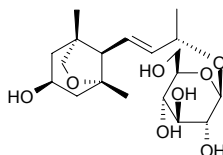
(3*S**,5*R**,6*S**,9*ξ*)-Megastigman-7-ene-3,6,9,10-tetrol 9-*O*- β -D-glucopyranoside C₁₉H₃₄O₉ (406.48). Amorphous powder, $[\alpha]_D = -66.5^\circ$. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**2609 Breyniaionoside C**

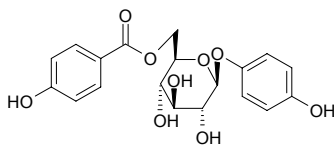
(3*S**,5*R**,6*S**,9*ξ*)-Megastigman-7-ene-3,6,9,10-tetrol 10-*O*- β -D-glucopyranoside C₁₉H₃₄O₉ (406.48). Amorphous powder, $[\alpha]_D = -24.3^\circ$. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**2610 Breyniaionoside D**

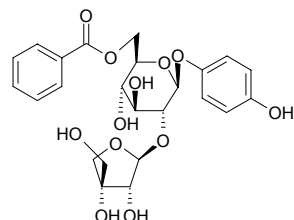
(1*S*,3*S*,5*R*,6*R*,9*R*)-Megastigman-7-ene-3,9-diol-5,12-epoxide 9-*O*- β -D-glucopyranoside C₁₉H₃₂O₈ (388.46). Amorphous powder, $[\alpha]_D = -1.50^\circ$. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**2611 Breynioside A**

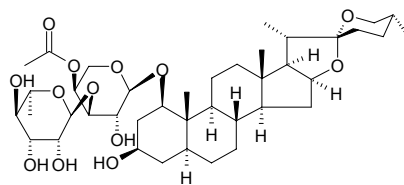
4'-Hydroxyximine C₁₉H₂₂O₉ (392.37). Colorless needles, mp 244~246°C, $[\alpha]_D = -38.4^\circ$. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**2612 Breynioside B**

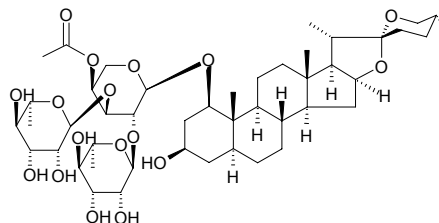
6'-Benzoylseguinoside A C₂₄H₂₈O₁₂ (508.48). Amorphous powder, $[\alpha]_D = -67.1^\circ$. In original paper, the structure of Api was wrong in Chart 2. Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**2613 Brisbagenin-1-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 3)-4-O-acetyl- α -L-arabinopyranoside]**

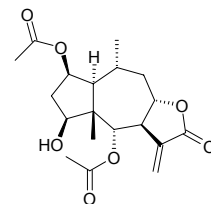
C₄₀H₆₄O₁₃ (752.95). Amorphous powder, $[\alpha]_D^{28} = -36.7^\circ$ ($c = 0.1$, CHCl₃:MeOH 1:1). Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 206 μ g/mL). Source: *Dichelostemma multiflorum*. Ref: 738.

**2614 Brisbagenin 1-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 3)]-4-O-acetyl- α -L-arabinopyranoside]**

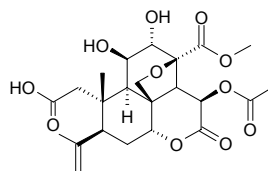
C₄₆H₇₄O₁₇ (899.09). Amorphous powder, $[\alpha]_D^{28} = -51.3^\circ$ ($c = 0.1$, CHCl₃:MeOH, 1:1). Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 118 μ g/mL). Source: *Dichelostemma multiflorum*. Ref: 738.

**2615 Britanin**

Britanin [33627-28-0] C₁₉H₂₆O₇ (366.41). mp 189~191°C. Pharm: Antiprotozoal (*in vitro*, *Trichomonas vaginalis* and amoeba protozoon, 0.24~7.80 μ g/mL). Source: DA HUA XUAN FU HUA CAO *Imula britannica*, JIN FEI CAO *Imula japonica*, XIAN YE XUAN FU HUA *Imula linariaefolia*. Ref: 1, 6, 660, 5501.

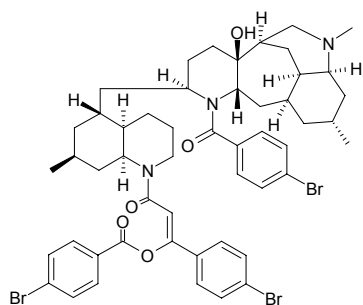
**2616 Broceaketolic acid**

C₂₃H₃₀O₁₁ (482.49). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 660.

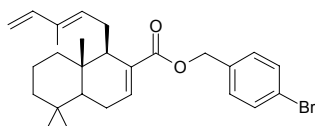


2617 *p*-Bromobenzoyl derivative of tetrahydrodeoxyoxolucidine A

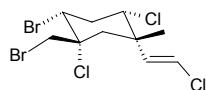
C₅₁H₆₀Br₃N₃O₅ (1034.78). Crystals, mp 228–232°C (MeOH), [α]_D^{21.5} = +7.3° (*c* = 1.1, CHCl₃). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**2618 4-Bromobenzyl-labda-7,12(E),14-triene-17-oate**

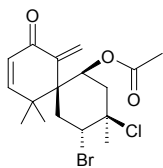
C₂₇H₃₅BrO₂ (471.48). Viscous liquid, [α]_D²⁰ = -13.36° (*c* = 1.16, CHCl₃). **Pharm:** Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10 μg/mL)^[5363]. **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. **Ref:** 5363.

**2619 (1*R**,2*S**,4*S**,5*S**)-4-Bromo-5-bromomethyl-1*E*-chlorovinyl-2,5-dichloromethylcyclohexane**

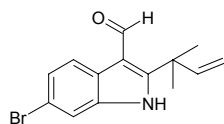
C₁₀H₁₃Br₂Cl₃ (399.38). **Pharm:** Cytotoxic (*in vitro*, WHCO1, IC₅₀ = 34.8 μmol/L, KB cancer, IC₅₀ = 33.3 μmol/L, control *cis*-Platin, IC₅₀ = 13 μmol/L)^[5277], antitubercular (*Mycobacterium tuberculosis*, moderate activity)^[5277]. **Source:** SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. **Ref:** 5277.

**2620 2-Bromo-3-chloro-5-acetoxy-chamigra-7(14),9-dien-8-one**

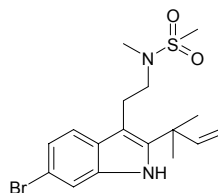
C₁₇H₂₂BrClO₃ (389.72). **Source:** *Laurencia mariannensis*. **Ref:** 5191.

**2621 6-Bromo-2-(1,1-dimethyl-2-propenyl)-1*H*-indole-3-carbaldehyde**

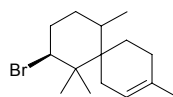
C₁₄H₁₄BrNO (292.18). **Pharm:** Affinity to nAChR (α4β2* subtype, *Ki* > 50000 nmol/L, control (-)-Nicotine, *Ki* = (0.838±0.132) nmol/L; α7* subtype, *Ki* > 50000 nmol/L, (-)-Nicotine, *Ki* = (127±5) nmol/L)^[5029]. **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea*. **Ref:** 5029.

**2622 *N*-(2-[6-Bromo-2-(1,1-dimethyl-2-propenyl)-1*H*-indol-3-yl]ethyl)-*N*-methylmethanesulfonamide**

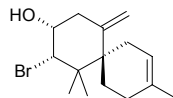
C₁₇H₂₃BrN₂O₂S (399.35). **Pharm:** Affinity to nAChR (α4β2* subtype, *Ki* > 50000 nmol/L, control (-)-Nicotine, *Ki* = (0.838±0.132) nmol/L; α7* subtype, *Ki* > 50000 nmol/L, (-)-Nicotine, *Ki* = (127±5) nmol/L)^[5029]. **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea*. **Ref:** 5029.

**2623 8-Bromo-1-en-Chamigrene**

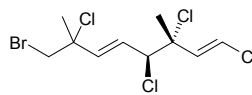
C₁₅H₂₃Br (285.27). Colorless acicular crystals, mp 124–125°C. **Source:** LUE DA AO DING ZAO *Laurencia majuscula*. **Ref:** 2152.

**2624 (6*R*,9*R*,10*S*)-10-Bromo-9-hydroxy-chamigra-2,7(14)-diene**

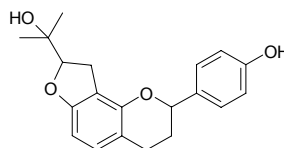
C₁₅H₂₃BrO (299.25). Oil, [α]_D²⁵ = -110° (*c* = 0.20, CHCl₃). **Pharm:** Antibacterial (marine bacteria: *Alcaligenes aquamarinus*, MIC = 20 μg/disc; *Azomonas agilis*, MIC = 20 μg/disc; *Azotobacter beijerinckii*, MIC = 15 μg/disc; *Erwinia amylovora*, MIC = 15 μg/disc; *Escherichia coli*, MIC = 10 μg/disc; *Alteromonas* sp., *Halobacterium* sp., *Halococcus* sp., no inhibition). **Source:** LUE DA AO DING ZAO *Laurencia majuscula*. **Ref:** 5191.

**2625 8-Bromo-1,3,4,7-tetrachloro-3,7-dimethyl-1*E*,5*E*-octadiene**

C₁₀H₁₃BrCl₄ (354.93). **Pharm:** Cytotoxic (*in vitro*, WHCO1, IC₅₀ = 17.2 μmol/L, control *cis*-Platin, IC₅₀ = 13 μmol/L)^[5277]. **Source:** SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. **Ref:** 5277.

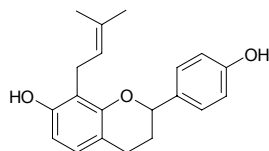
**2626 Brosimine A**

4'-Hydroxy-7,8-[2-(2-hydroxyisopropyl)dihydrofuran]flavan C₂₀H₂₂O₄ (326.40). [α]_D²⁵ = -7.06° (*c* = 0.35, CHCl₃). **Source:** JIAN YE BAO SHI MU *Brosimum acutifolium* (trunk bark). **Ref:** 3942.

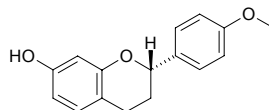


2627 Brosimine B

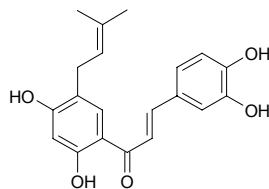
4',7-Dihydroxy-8-(3,3-dimethylallyl)flavan $C_{20}H_{22}O_3$ (310.40). $[\alpha]_D^{25} = -4.88^\circ$ ($c = 0.5$, $CHCl_3$). Source: JIAN YE BAO SHI MU *Brosimum acutifolium* (trunk bark). Ref: 3942.

**2628 Broussin**

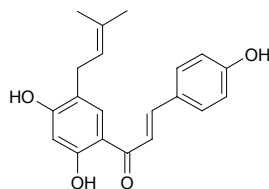
[76045-50-6] $C_{16}H_{16}O_3$ (256.30). Pharm: Antimicrobial (*Bipolaris leersial*). Source: GOU SHU GUO *Broussonetia papyrifera*. Ref: 658.

**2629 Brousochalcone A**

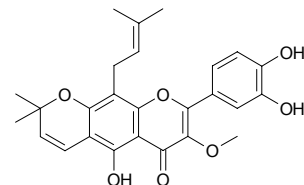
$C_{20}H_{20}O_5$ (340.38). Pharm: Aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]; anti-inflammatory (NO production inhibitor)^[4415]. Source: GOU SHU BAI PI *Broussonetia papyrifera*, GOU SHU *Broussonetia papyrifera*. Ref: 660, 1521, 3090, 4415.

**2630 Brousochalcone B**

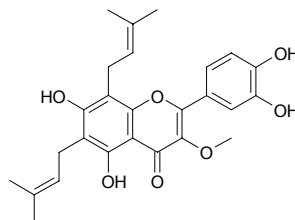
Anticancer Flavonoid PMV70P691-79 $C_{20}H_{20}O_4$ (324.38). Pharm: Aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]; cytotoxic (estrogen α receptor-binding assay)^[5038]; cytotoxic (estrogen β receptor-binding assay)^[5038]. Source: GOU SHU BAI PI *Broussonetia papyrifera*, GOU SHU *Broussonetia papyrifera*. Ref: 660, 3090, 5038.

**2631 Brousoflavonol A**

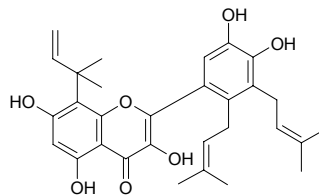
$C_{26}H_{26}O_7$ (450.49). Source: GOU SHU BAI PI *Broussonetia papyrifera*. Ref: 660.

**2632 Brousoflavonol B**

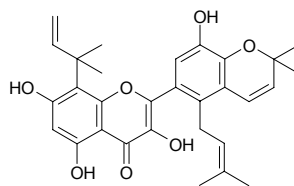
$C_{26}H_{28}O_7$ (452.51). Source: GOU SHU BAI PI *Broussonetia papyrifera*. Ref: 660.

**2633 Brousoflavonol C**

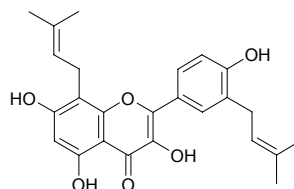
$C_{30}H_{34}O_7$ (506.60). Source: GOU SHU GEN *Broussonetia papyrifera*. Ref: 660.

**2634 Brousoflavonol D**

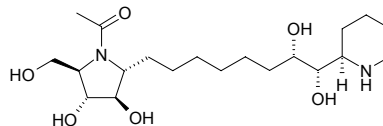
$C_{30}H_{32}O_7$ (504.59). Source: GOU SHU GEN *Broussonetia papyrifera*. Ref: 660.

**2635 Brousoflavonol F**

Anticancer Flavonoid PMV70P691-80 $C_{25}H_{26}O_6$ (422.48). Pharm: Cytotoxic (antiproliferative hmn breast cancer cells)^[5038]; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; cytotoxic (antioxidant assay)^[5038]; cytotoxic (aromatase inhibitor)^[5038]; aromatase inhibitor (*in vitro*, $IC_{50} = 9.7 \mu\text{mol/L}$, control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090, 5038.

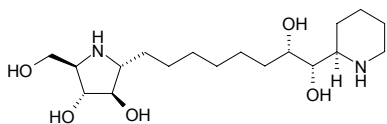
**2636 Broussonetine J₁**

(2*R*)-2-[(1*S*,2*S*)-1,2-Dihydroxy-8-[(2*R*,3*R*,4*R*,5*R*)-5-(2-hydroxymethyl)-3,4-di-hydroxy-1-acetylpyrrolidinyl]octyl]piperidine $C_{20}H_{28}N_2O_6$ (402.54). Colorless oil, $[\alpha]_D = -17.5^\circ$ ($c = 0.30$, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

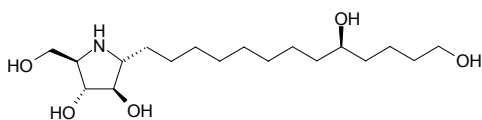


2637 Broussonetine J₂

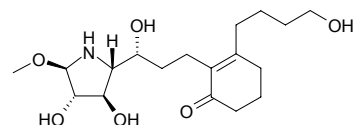
(2*R*,2-[(1*S*,2*S*)-1,2-Dihydroxy-8-[(2*R*,3*R*,4*R*,5*R*)-5-(2-hydroxymethyl-3,4-dihydroxypyrrolidinyl)]octyl]piperidine C₁₈H₃₆N₂O₅ (380.50). Colorless oil, [α]_D = +13.8° (*c* = 0.42, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

**2638 Broussonetine M₁**

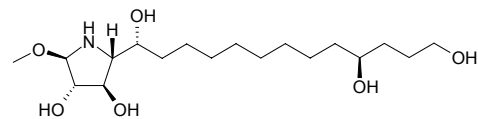
(2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(9*R*)-9,13-dihydroxytridecyl]pyrrolidine C₁₈H₃₇NO₅ (347.50). Colorless powder, [α]_D = +18.3° (*c* = 0.56, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

**2639 Broussonetine R**

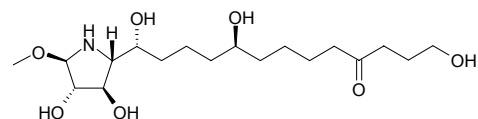
(2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*)-1-hydroxy-3-[6-(4-hydroxybutyl)-cyclohexy-2-on-1(6)-enyl]propyl] pyrrolidine C₁₈H₃₁NO₆ (357.45). Colorless oil, [α]_D = +21.8° (*c* = 0.27, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 3520.

**2640 Broussonetine S**

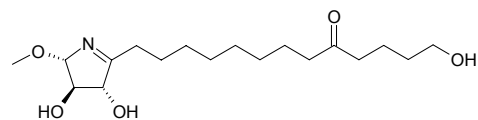
(2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*,10*S*)-1,10,13-trihydroxytridecyl] pyrrolidine C₁₈H₃₇NO₆ (363.50). Colorless powder, [α]_D = +25.1° (*c* = 0.18, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 3520.

**2641 Broussonetine T**

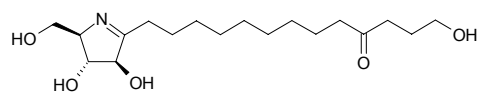
(2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*,5*S*)-1,5,13-trihydroxy-10-oxo-tridecyl] pyrrolidine C₁₈H₃₅NO₇ (377.48). Colorless oil, [α]_D = +11.0° (*c* = 0.49, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 3520.

**2642 Broussonetine U**

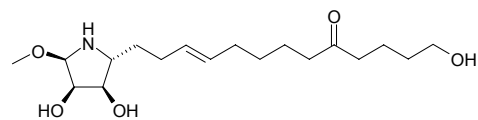
(2*S*,3*S*,4*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(9-oxo-13-hydroxytridecyl)-5-pyrrolidine C₁₈H₃₃NO₅ (343.47). Colorless oil, [α]_D = -33.3° (*c* = 0.20, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 3520.

**2643 Broussonetine U₁**

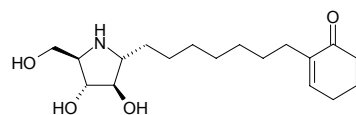
(2*S*,3*S*,4*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(10-oxo-13-hydroxytridecyl)-5-pyrrolidine C₁₈H₃₃NO₅ (343.47). Colorless powder, [α]_D = -30.2° (*c* = 0.09, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

**2644 Broussonetine V**

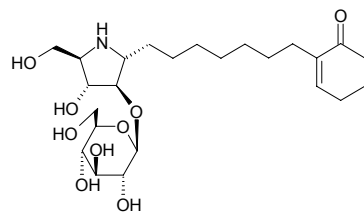
(2*R*,3*S*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(*E*)-9-oxo-13-hydroxy-3-trideceny] pyrrolidine C₁₈H₃₃NO₅ (343.47). Colorless powder, [α]_D = +10.9° (*c* = 0.09, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 3520.

**2645 Broussonetine W**

(2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[7-(cyclohexy-2-on-1(6)-enyl)heptyl]pyrrolidine C₁₈H₃₁NO₄ (325.45). Colorless oil, [α]_D = +16.0° (*c* = 0.07, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

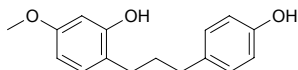
**2646 Broussonetine X**

(2*R*,3*S*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[7-(cyclohexy-2-on-1(6)-enyl)heptyl]pyrrolidine-4-*O*- β -*D*-glucopyranoside C₂₄H₄₁NO₉ (487.60). Colorless oil, [α]_D = +13.7° (*c* = 0.51, MeOH). Source: XIAO GOU SHU *Broussonetia kazinoki* (branch). Ref: 4146.

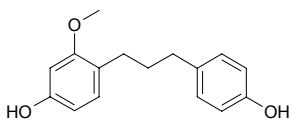


2647 Broussonin A

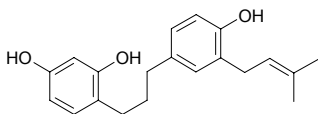
[73731-87-0] C₁₆H₁₈O₃ (258.32). mp 101.0~101.5°C (dichloromethane). **Pharm:** Cytotoxic (aromatase inhibitor)^[5038]; aromatase inhibitor (*in vitro*, IC₅₀ = 30μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]; antifungal (*Fusarium*, *Sclerotinia*, MIC = 0.2~0.9mmol/L); antifungal. **Source:** GOU SHU GUO *Broussonetia papyrifera*. **Ref:** 658, 661, 3090, 5038.

**2648 Broussonin B**

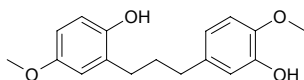
[73731-86-9] C₁₆H₁₈O₃ (258.32). mp 99.5~100°C (chloroform). **Pharm:** Cytotoxic (estrogen α receptor-binding assay)^[5038]; cytotoxic (estrogen β receptor-binding assay)^[5038]; antifungal (*Fusarium*, *Sclerotinia*, MIC = 0.05~0.9mmol/L); aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]. **Source:** GOU SHU GUO *Broussonetia papyrifera*. **Ref:** 658, 661, 3090, 5038.

**2649 Broussonin C**

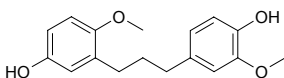
C₂₀H₂₄O₃ (312.41). **Pharm:** Antifungal. **Source:** GOU SHU GUO *Broussonetia papyrifera*. **Ref:** 658.

**2650 Broussonin E**

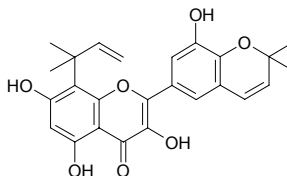
C₁₇H₂₀O₄ (288.35). **Pharm:** Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090.

**2651 Broussonin F**

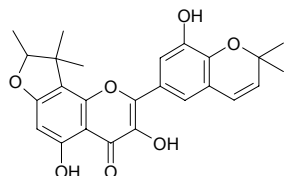
C₁₇H₂₀O₄ (288.35). **Pharm:** Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]. **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090.

**2652 Broussonol A**

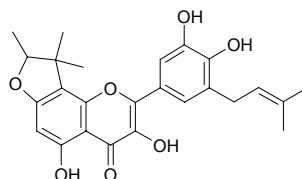
C₂₅H₂₄O₇ (436.47). Yellow powder, mp 162~164°C. **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ = 8.74μg/mL; HCT8, ED₅₀ = 9.10μg/mL; KB, ED₅₀ > 10μg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

**2653 Broussonol B**

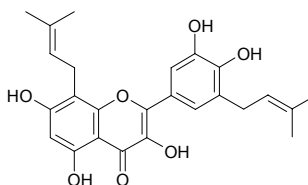
C₂₅H₂₄O₇ (436.47). Yellow powder, mp 210~212°C, [α]_D²⁵ = 0° (c = 0.20, MeOH). **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ = 5.52μg/mL; HCT8, ED₅₀ = 8.80μg/mL; KB, ED₅₀ > 10μg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

**2654 Broussonol C**

C₂₅H₂₆O₇ (438.48). Yellow powder, mp 174~176°C, [α]_D²⁵ = 0° (c = 0.12, MeOH). **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ = 7.77μg/mL; HCT8, ED₅₀ = 9.63μg/mL; KB, ED₅₀ > 10μg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

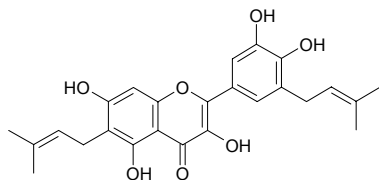
**2655 Broussonol D**

C₂₅H₂₆O₇ (438.48). Yellow powder, mp 187~189°C. **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ > 10μg/mL; HCT8, ED₅₀ > 10μg/mL; KB, ED₅₀ = 4.15μg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

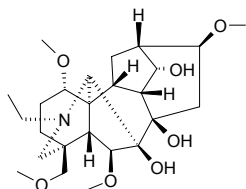


2656 Broussonol E

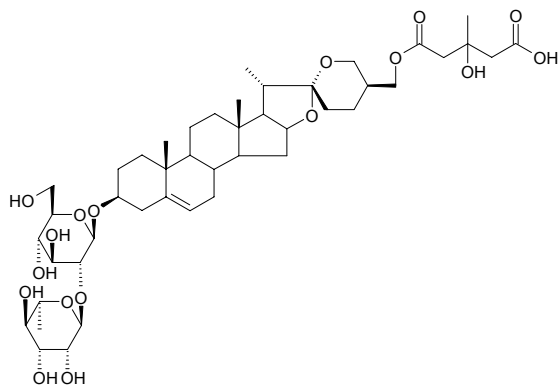
$C_{25}H_{26}O_7$ (438.48). Yellow powder, mp 192–193°C. **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, $ED_{50} > 10\mu\text{g/mL}$; HCT8, $ED_{50} > 10\mu\text{g/mL}$; KB, $ED_{50} > 10\mu\text{g/mL}$). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

**2657 Browniine**

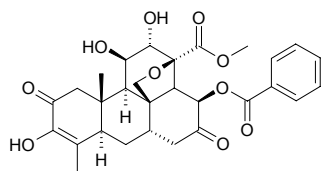
[5140-42-1] $C_{25}H_{41}NO_7$ (467.61). **Pharm:** Antispasmodic (gpg, inhibits ileal contraction). **Source:** BAO SHI FEI YAN CAO *Delphinium brownii*. **Ref:** 658.

**2658 Brownioside**

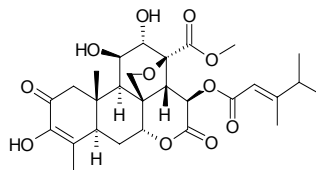
$C_{45}H_{70}O_{17}$ (883.05). **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*]. **Ref:** 660.

**2659 Bruceantarin**

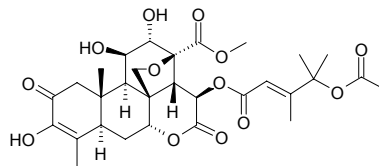
$C_{29}H_{32}O_{10}$ (540.57). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (root). **Ref:** 660.

**2660 Bruceantin**

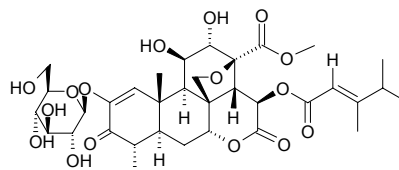
[41451-75-6] $C_{28}H_{36}O_{11}$ (548.59). $[\alpha]_D^{25} = -27.7^\circ$ ($c = 3.0$, pyridine). **Pharm:** Cytotoxic (leukemia, against a series of tumor cell lines but did not show significant effects in clinical studies against solid tumors, oil emulsion of fruits of *Brucea javanica* shows clinical efficacy)^[5369]; antiamebic (*in vitro*); antineoplastic (P₃₈₈, Lewis lung cancer, L₁₂₁₀ and B16 melanoma, 0.5–1.0mg/(kg·d)); cytotoxic (KB, $ED_{50} = 0.001\text{--}0.010\mu\text{g/mL}$); LD₅₀ (male mus, iv) = 1.95mg/kg, (female mus, iv) = 2.58mg/kg. **Source:** KANG LI YA DAN ZI *Brucea antidysenterica*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 658, 661, 5369.

**2661 Bruceantanol**

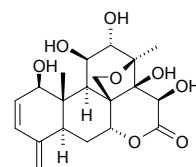
[53729-52-5] $C_{30}H_{38}O_{13}$ (606.63). $[\alpha]_D^{24} = -14.5^\circ$ ($c = 0.44$, pyridine). **Pharm:** Antineoplastic (P₃₈₈, *in vivo*); cytotoxic (KB, $ED_{50} = 0.001\text{--}0.010\mu\text{g/mL}$). **Source:** KANG LI YA DAN ZI *Brucea antidysenterica*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 658, 661.

**2662 Bruceantinoside A**

[79439-85-3] $C_{34}H_{46}O_{16}$ (710.74). Amorphous solid, mp 150°C (dec), $[\alpha]_D^{25} = +7.8^\circ$ ($c = 0.6$, pyridine). **Pharm:** Antineoplastic (leukemia). **Source:** KANG LI YA DAN ZI *Brucea antidysenterica*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0025%dw)^[4748]. **Ref:** 658, 661, 4748.

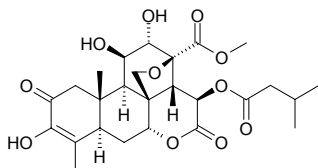
**2663 Bruceene**

$C_{20}H_{26}O_8$ (394.43). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660.

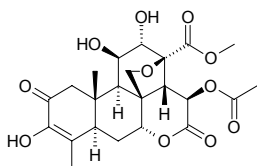


2664 Bruceine A

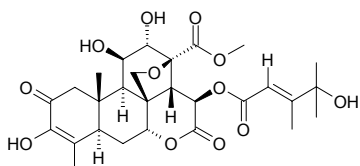
Brucein A [25514-31-2] $C_{26}H_{34}O_{11}$ (522.55). mp 267~270°C. Pharm: Cytotoxic (mus, lymphocyte sarcoma, $ID_{50} = 0.031 \mu\text{g}/\text{mL}$, inhibits absorption of thymidine). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], KU YA DAN ZI *Brucea amarissima*. Ref: 1, 2, 4, 6.

**2665 Bruceine B**

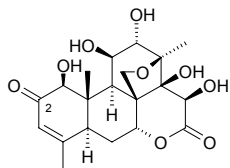
Brucein B [25514-29-8] $C_{23}H_{28}O_{11}$ (480.47). mp 262~266°C. Pharm: Antiamebic. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], KU YA DAN ZI *Brucea amarissima*. Ref: 1, 2, 4, 6.

**2666 Bruceine C**

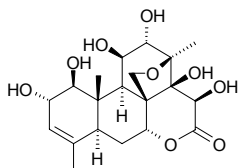
Brucein C [25514-30-1] $C_{28}H_{36}O_{12}$ (564.59). mp 175~180°C. Pharm: Antiamebic; antineoplastic (mus, P_{388}). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 1, 2, 4, 6.

**2667 Bruceine D**

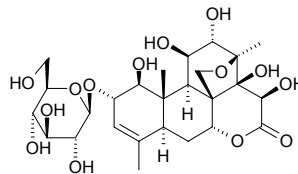
Brucein D [21499-66-1] $C_{20}H_{26}O_9$ (410.42). mp 285~290°C. Pharm: Antiamebic; antineoplastic (mus, P_{388}). Source: KU YA DAN ZI *Brucea amarissima*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0012%dw)^[4748]. Ref: 1, 2, 4, 6, 4748.

**2668 Bruceine E**

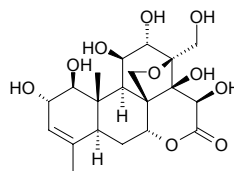
Brucein E [21586-90-3] $C_{20}H_{28}O_9$ (412.44). mp 260~264°C. Pharm: Antiamebic. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0011%dw)^[4748]. Ref: 1, 2, 4, 6, 4748.

**2669 Bruceine E 2-β-D-glucopyranoside**

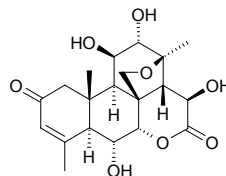
$C_{26}H_{38}O_{14}$ (574.58). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 660.

**2670 Bruceine F**

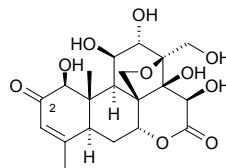
Brucein F [23112-07-4] $C_{20}H_{28}O_{10}$ (428.44). mp 224~227°C. Pharm: Antiamebic. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 1, 2, 4, 6.

**2671 Bruceine G**

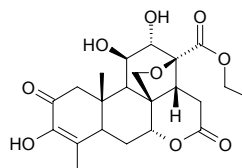
Brucein G [20797-65-3] $C_{20}H_{26}O_8$ (394.43). Pharm: Antiamebic. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 1, 2, 4.

**2672 Bruceine H**

Brucein H; Yadanzolide A [95258-14-3] $C_{20}H_{26}O_{10}$ (426.42). Colorless rhombic crystals, mp 283~285°C (dec, methanol), $[\alpha]_D^{28} = -10.5^\circ$ ($c = 1.7$, pyridine). Pharm: Antimalarial (inhibits *Plasmodium falciparum*, absorbing H^3 -sarkin *in vitro*, $IC_{50} = 0.031 \mu\text{g}/\text{mL}$). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 2, 935, 1038, 1061, 1132.

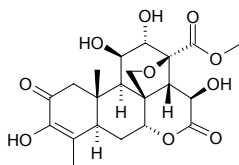
**2673 Bruceine I**

Brucein I $C_{22}H_{28}O_9$ (436.46). Colorless prismatic crystals, mp 293~295°C. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 2, 156.

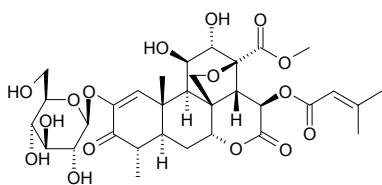


2674 Bruceolide

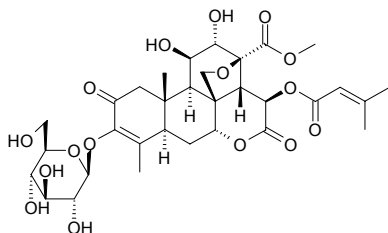
[25514-28-7] C₂₁H₂₆O₁₀ (438.44). **Pharm:** Antiamebic. **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 658.

**2675 Bruceoside A**

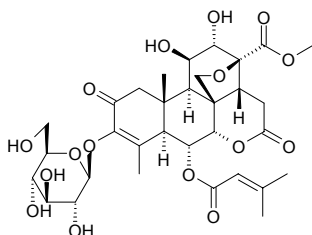
[63306-30-9] C₃₂H₄₂O₁₆ (682.66). **Pharm:** Antineoplastic (leukemia). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.020%dw)^[4748]. **Ref:** 2, 658, 4748.

**2676 Bruceoside B**

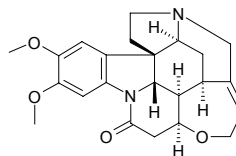
[69687-69-0] C₃₂H₄₂O₁₆ (682.66). White powder (methanol), mp 220.0–223.5°C (dec). **Pharm:** Antineoplastic (P₃₈₈ *in vivo*, 1.5mg/(kg·d), biotic prolonged rate = 132%); cytotoxic (differentiation of HL-60 cells)^[5038]; antipyretic (reduces normal body temperature in mouse); pesticide; toxin (causes death to mus). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0025%dw)^[4748]. **Ref:** 2, 900, 4748, 5038.

**2677 Bruceoside C**

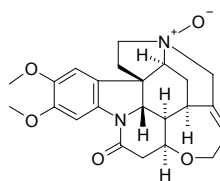
[141271-79-6] C₃₂H₄₂O₁₆ (682.66). **Pharm:** Cytotoxic (KB ED₅₀ < 0.1µg/mL; A549 ED₅₀ = 0.44µg/mL; HCT ED₅₀ = 4.51µg/mL; RPMI ED₅₀ < 0.1µg/mL; TE-671 ED₅₀ = 0.29µg/mL; P₃₈₈ ED₅₀ = 5.11µg/mL). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000042%dw)^[4748]. **Ref:** 2, 1718, 4748.

**2678 Brucine**

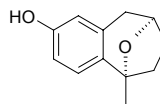
10,11-Dimethoxystrychnine; 2,3-Dimethoxystrychnidin-10-one [357-57-3] C₂₃H₂₆N₂O₄ (394.47). Acicular crystals (acetone–water), mp 178°C, [α]_D = –127° (chloroform), [α]_D = –85° (absolute ethanol), easily soluble in methanol, ethanol, soluble in chloroform, slightly soluble in benzene, acetic ester, glycerol, very slightly soluble in ether, boiling water.^[5507] **Pharm:** Antibacterial; antitussive (dispels phlegm); CNS stimulant; LD (hmn) = 200mg; LD₅₀ (dog, iv) = 8mg/kg. **Source:** CI MA QIAN ZI *Strychnos aculeata*, MA QIAN ZI *Strychnos nux-vomica* (dried ripe seed: content scope = 0.19%–2.12%^[5501], mean content = 1.20%^[5508]), LV SONG GUO *Strychnos ignatii*. **Ref:** 1, 4, 543, 576, 5501, 5507, 5508.

**2679 Brucine N-oxide**

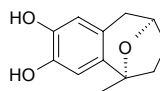
Brucineoxide [17301-81-4] C₂₃H₂₆N₂O₅ (410.47). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 543, 1521.

**2680 Bruguerol A**

C₁₂H₁₄O₂ (190.24). White solid, [α]_D²⁰ = +14.4° (c = 0.30, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* SG 511, MIC > 100µg/mL, Ciprofloxacin, MIC = 0.2µg/mL; *Micrococcus luteus* ATCC 10240, MIC > 100µg/mL, Ciprofloxacin, MIC = 12.5µg/mL; *Enterococcus faecalis* 1528(vanA), MIC > 100µg/mL, Ciprofloxacin, MIC = 1.6µg/mL; *Escherichia coli* SG 458, MIC > 100µg/mL, Ciprofloxacin, MIC < 0.05µg/mL; *Mycobacterium vaccae* IMET 10670 MIC = 25µg/mL, Ciprofloxacin, MIC = 0.4µg/mL); antifungal (*Candida albicans*, MIC = 50µg/mL; control Amphotericin B, MIC < 0.05µg/mL). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem). **Ref:** 5057.

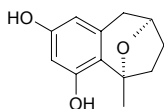
**2681 Bruguerol B**

C₁₂H₁₄O₃ (206.24). White solid, [α]_D²⁰ = +8.9° (c = 0.27, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* SG 511, MIC > 100µg/mL, Ciprofloxacin, MIC = 0.2µg/mL; *Micrococcus luteus* ATCC 10240, MIC > 100µg/mL, Ciprofloxacin, MIC = 12.5µg/mL; *Enterococcus faecalis* 1528(vanA), MIC > 100µg/mL, Ciprofloxacin, MIC = 1.6µg/mL; *Escherichia coli* SG 458, MIC > 100µg/mL, Ciprofloxacin, MIC < 0.05µg/mL; *Mycobacterium vaccae* IMET 10670 MIC = 25µg/mL, Ciprofloxacin, MIC = 0.4µg/mL); antifungal (*Candida albicans*, MIC = 50µg/mL; control Amphotericin B, MIC < 0.05µg/mL). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem). **Ref:** 5057.

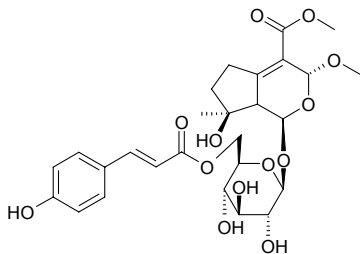


2682 Bruguierol C

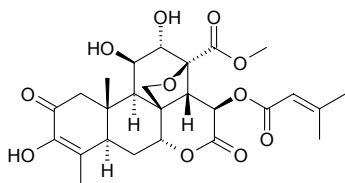
$C_{12}H_{14}O_3$ (206.24). White solid, $[\alpha]_D^{20} = +4.0^\circ$ ($c = 0.50$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* SG 511, MIC = 12.5 $\mu\text{g/mL}$, Ciprofloxacin, MIC = 0.2 $\mu\text{g/mL}$; *Micrococcus luteus* ATCC 10240, MIC = 12.5 $\mu\text{g/mL}$, Ciprofloxacin, MIC = 12.5 $\mu\text{g/mL}$; *Enterococcus faecalis* 1528(vanA), MIC = 12.5 $\mu\text{g/mL}$, Ciprofloxacin, MIC = 1.6 $\mu\text{g/mL}$; *Escherichia coli* SG 458, MIC = 12.5 $\mu\text{g/mL}$, Ciprofloxacin, MIC < 0.05 $\mu\text{g/mL}$; *Mycobacterium vaccae* IMET 10670 MIC = 12.5 $\mu\text{g/mL}$, Ciprofloxacin, MIC = 0.4 $\mu\text{g/mL}$); antifungal (*Candida albicans*, MIC = 50 $\mu\text{g/mL}$; control Amphotericin B, MIC < 0.05 $\mu\text{g/mL}$). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorhiza* (stem). **Ref:** 5057.

**2683 Brunneogaleatoside**

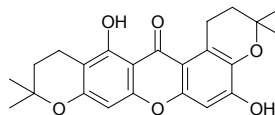
$C_{27}H_{34}O_{13}$ (566.56). Amorphous powder, $[\alpha]_D^{20} = -75.9^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 18.1 \mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098 \mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90 \mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06 \mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 4.7 \mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102 \mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} = 38.9 \mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022 \mu\text{g/mL}$); cytotoxic (L6, $IC_{50} > 90 \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008 \mu\text{g/mL}$). **Source:** ZONG KUI CAO SU *Phlomis brunneogaleata*. **Ref:** 5009.

**2684 Brusatol**

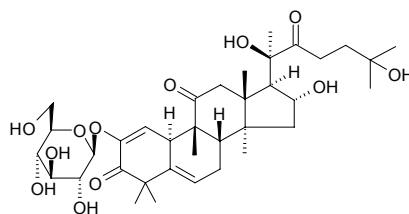
Yatansin [14907-98-3] $C_{26}H_{32}O_{11}$ (520.54). mp 276–278°C. **Pharm:** cytotoxic (leukemia)^[5369]; Antineoplastic (P_{388} , inhibits biosynthesis of RNA and protein); cytotoxic (differentiation of HL-60 cells)^[5038]; antiamebic; hexokinase inhibitor (strong). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0085%dw)^[4748]. **Ref:** 1, 2, 4, 4748, 5038, 5369, 5501.

**2685 BR-Xanthone A**

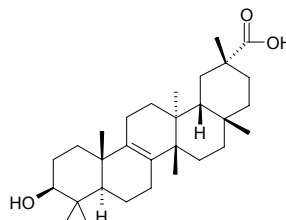
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Antioxidant (DPPH scavenger, 10 $\mu\text{mol/L}$, ScRt = 15%, control BHT, 10 $\mu\text{mol/L}$, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128 $\mu\text{g/mL}$, control Vancomycin, MIC = 2 $\mu\text{g/mL}$; *Staphylococcus aureus* MRSA SK1, MIC > 128 $\mu\text{g/mL}$, Vancomycin, MIC = 2 $\mu\text{g/mL}$)^[5319]. **Source:** DAO NIAN ZI *Garcinia mangostana*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 1521, 4422, 5319.

**2686 Bryoamaride**

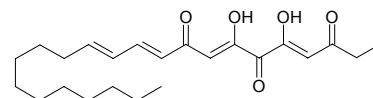
$C_{36}H_{54}O_{12}$ (678.82). Yellow amorphous solid, $[\alpha]_D = -47.8^\circ$ ($c = 1.2$, EtOH). **Source:** FENG GUA *Gymnopetalum integrifolium* (fruit). **Ref:** 4189.

**2687 Bryonolic acid**

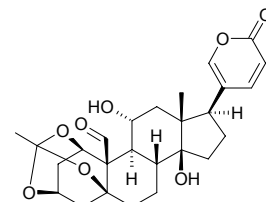
[24480-45-3] $C_{30}H_{48}O_3$ (456.72). Colorless rhombic crystals (methanol), mp 299–302°C, $[\alpha]_D^{20} = +25.0^\circ$ ($c = 1.0$, pyridine). **Pharm:** Antiallergic (mouse and rat); antineoplastic (L_{1210} , $IC_{50} = 0.024 \mu\text{g/mL}$); anti-inflammatory. **Source:** BAI LIAN *Ampelopsis japonica* [Syn. *Paullinia japonica*], GUA LOU *Trichosanthes kirilowii*, HU BEI GUA LOU *Trichosanthes hupehensis*, SI GUA *Luffa cylindrica*, TIAN HUA FEN *Trichosanthes kirilowii*. **Ref:** 2, 900.

**2688 Bryophollenone**

$C_{23}H_{34}O_5$ (390.52). **Source:** LUO DI SHENG GEN *Bryophyllum pinnatum*. **Ref:** 660.

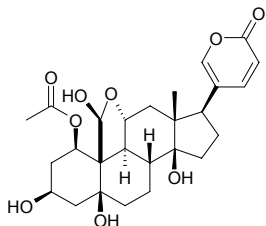
**2689 Bryophyllin A**

$C_{26}H_{32}O_8$ (472.54). **Source:** LUO DI SHENG GEN *Bryophyllum pinnatum*. **Ref:** 660.

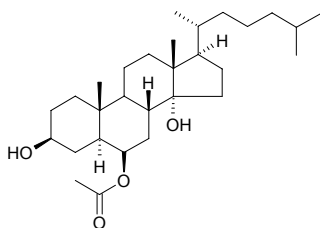


2690 Bryophyllin B

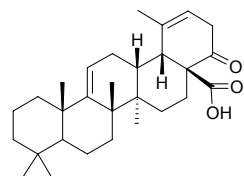
$C_{26}H_{34}O_9$ (490.56). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*.
Ref: 660.

**2691 Bryophyllol**

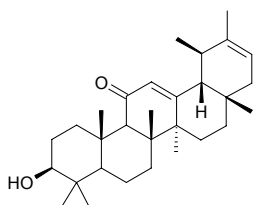
$C_{29}H_{50}O_4$ (462.72). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*.
Ref: 660.

**2692 Bryophyllone**

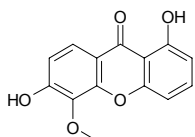
$C_{29}H_{42}O_3$ (438.66). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*.
Ref: 660.

**2693 Bryophynol**

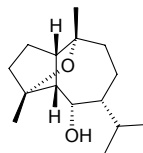
$C_{30}H_{46}O_2$ (438.70). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*.
Ref: 660.

**2694 Buchanaxanthone**

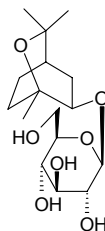
1,6-Dihydroxy-5-methoxyxanthone $C_{14}H_{10}O_5$ (258.23). Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 0.27 μg/mL, control Mithramycin ED₅₀ = 0.06 μg/mL, HT29 ED₅₀ = 0.84 μg/mL, Mithramycin ED₅₀ = 0.08 μg/mL)^[4094]. Source: HAI TANG GUO *Calophyllum inophyllum*, TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 660, 4094.

**2695 Buchariol**

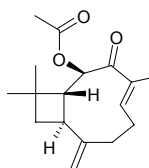
4,10-Epoxy-6 α -hydroxyguaiane $C_{15}H_{26}O_2$ (238.37). Source: *Salvia bucharica*.
Ref: 2391.

**2696 Bucharioside**

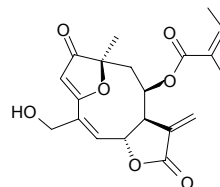
2-*exo*- β -D-Glucopyranosyl-1,8-cineol $C_{16}H_{28}O_7$ (332.40). $[\alpha]_D^{25} = -25.48^\circ$ ($c = 2.29$, MeOH). Source: *Salvia bucharica*. Ref: 2391.

**2697 Buddlein A**

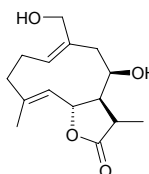
[62346-20-7] $C_{17}H_{24}O_3$ (276.38). Pharm: Fish toxin. Source: DA YE ZUI YU CAO *Buddleja davidii*. Ref: 658.

**2698 Budlein A**

$C_{20}H_{22}O_7$ (374.39). Source: *Viguiera eriophora* ssp. *erriophora* (aerial parts).
Ref: 5090.

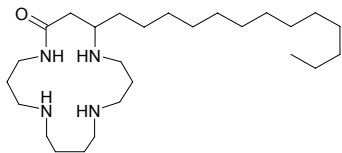
**2699 Budlein B**

$C_{15}H_{22}O_4$ (266.34). Source: HUA ZE LAN *Eupatorium chinense* (whole herb; yield = 0.00027%). Ref: 4739.

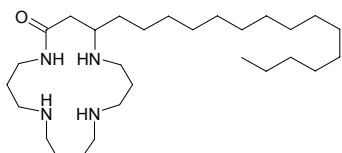


2700 Budmunchiamine L₄

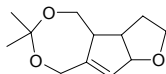
C₂₈H₅₄N₄O (438.75). Colorless oil. $[\alpha]_D = -13^\circ$ ($c = 0.65$, MeOH). Source: BA NA MA HE HUAN *Albizzia adinocephala*. Ref: 1950.

**2701 Budmunchiamine L₅**

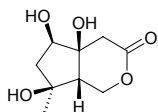
C₂₈H₅₈N₄O (466.80). Colorless oil. $[\alpha]_D = -20^\circ$ ($c = 0.21$, MeOH). Source: BA NA MA HE HUAN *Albizzia adinocephala*. Ref: 1950.

**2702 Buergerinin A**

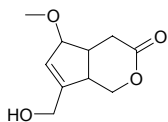
C₉H₁₄O₆ (210.28). Yellowish oil, $[\alpha]_D^{23.5} = +5.65^\circ$ ($c = 0.064$, CHCl₃). Source: BEI XUAN SHEN *Scrophularia buergeriana*, XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2703 Buergerinin B**

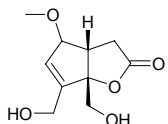
C₉H₁₄O₅ (202.21). Colorless needles, mp 159–160°C, $[\alpha]_D^{23} = -23.14^\circ$ ($c = 0.945$, MeOH). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2704 Buergerinin C**

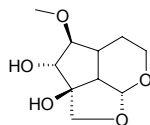
C₁₀H₁₄O₄ (198.22). Yellowish oil, $[\alpha]_D^{23} = -6.78^\circ$ ($c = 1.894$, MeOH). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2705 Buergerinin D**

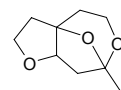
C₁₀H₁₄O₅ (214.22). Yellowish oil, $[\alpha]_D^{17} = -28.13^\circ$ ($c = 0.615$, Me₂CO). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2706 Buergerinin E**

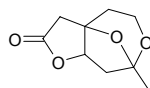
C₁₀H₁₆O₅ (216.24). Oil, $[\alpha]_D^{17} = +21.21^\circ$ ($c = 0.617$, Me₂CO). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2707 Buergerinin F**

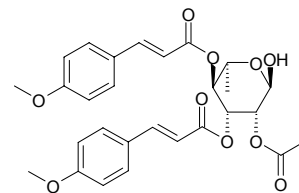
C₉H₁₄O₃ (170.21). Yellowish oil, $[\alpha]_D^{18} = +40.67^\circ$ ($c = 0.431$, CHCl₃). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2708 Buergerinin G**

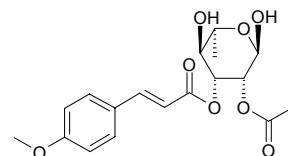
C₉H₁₂O₄ (184.19). Yellowish flake crystals, mp 152–154°C, $[\alpha]_D^{18} = +47.71^\circ$ ($c = 0.509$, CHCl₃). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

**2709 Buergeriside A₁**

2-*O*-Acetyl-3,4-di-*O*-(*E*)-*p*-methoxycinnamoyl- α -*L*-rhamnopyranoside C₂₈H₃₀O₁₀ (526.55). Yellowish needle. Pharm: Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (71.6 \pm 3.9)%, $p < 0.001$, control MK-801, 0.1 μ mol/L, cell viability = (31.8 \pm 7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7 \pm 1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1 \pm 5.6)%). Source: BEI XUAN SHEN *Scrophularia buergeriana* (root). Ref: 3967.

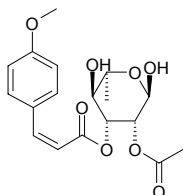
**2710 Buergeriside B₁**

2-*O*-Acetyl-3-*O*-(*E*)-*p*-methoxycinnamoyl- α -*L*-rhamnopyranoside C₁₈H₂₂O₈ (366.37). White amorphous powder. Pharm: Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (65.2 \pm 2.9)%, $p < 0.01$, control MK-801, 0.1 μ mol/L, cell viability = (31.8 \pm 7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7 \pm 1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1 \pm 5.6)%). Source: BEI XUAN SHEN *Scrophularia buergeriana* (root). Ref: 3967.

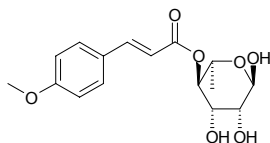


2711 Buergeriside B₂

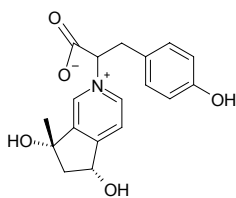
2-*O*-Acetyl-3-*O*-(*Z*)-*p*-methoxycinnamoyl- α -*L*-rhamnopyranoside C₁₈H₂₂O₈ (366.37). White amorphous powder. **Pharm:** Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (35.9 \pm 2.3)%, p <0.05, control MK-801, 0.1 μ mol/L, cell viability = (31.8 \pm 7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7 \pm 1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1 \pm 5.6)%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root). **Ref:** 3967.

**2712 Buergeriside C₁**

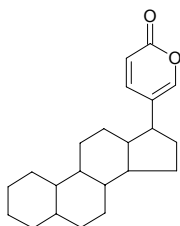
4-*O*-(*E*)-*p*-Methoxycinnamoyl- α -*L*-rhamnopyranoside C₁₆H₂₀O₇ (324.33). Pale yellow powder. **Pharm:** Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (48.3 \pm 3.3)%, p <0.01, control MK-801, 0.1 μ mol/L, cell viability = (31.8 \pm 7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7 \pm 1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1 \pm 5.6)%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root). **Ref:** 3967.

**2713 Bueropyridinium A**

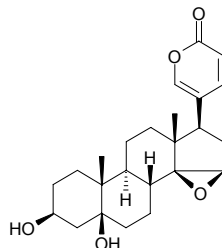
C₁₈H₁₉NO₅ (329.36). Colorless hyaloid oil. **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 8.

**2714 Bufadienolide**

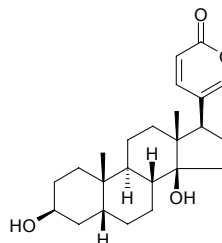
C₂₂H₃₀O₂ (326.48). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 2.

**2715 Bufagin**

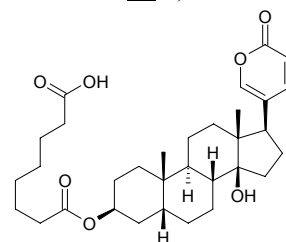
Morinobufagin [470-42-8] C₂₄H₃₂O₅ (400.52). Crystals (Me₂CO-Et₂O), mp 224–225°C, [α]_D¹⁶ = +10° (c = 2.6, CHCl₃). **Source:** CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 6, 660, 1521.

**2716 Bufalin**

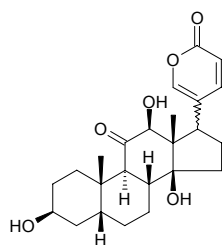
[465-21-4] C₂₄H₃₄O₄ (386.54). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.67 μ g/mL; HL-60, IC₅₀ < 0.01 μ g/mL; MH-60, IC₅₀ > 25 μ g/mL)^[3082], cardiotoxic (cardiac glycoside); respiratory stimulant (narcosis rbt, iv); increases blood pressure (narcosis rbt, iv); eclamptogenic (rat, iv, 0.8mg/kg, tetanic convulsion); anesthetic; LD₅₀ (mus, iv) = 2.2mg/kg. **Source:** CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*, CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.34%)^[5508], *Bufo melanostictus* (dried secretion: content = 0.73%)^[5508]. **Ref:** 2, 618, 658, 3082, 5501, 5508.

**2717 Bufalin-3-hydrogen suberate**

C₃₂H₄₆O₇ (542.72). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 6, 660.

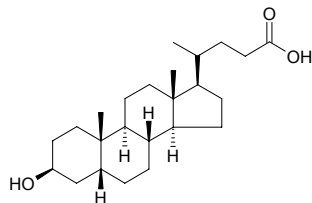
**2718 Bufarenogin**

Bufarenogin [17008-65-0] C₂₄H₃₂O₆ (416.52). mp 230–233°C. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 6, 1521.

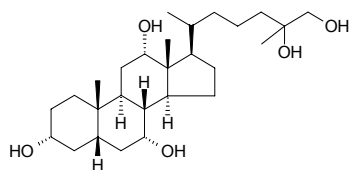


2719 Bufodihydroxycholanolic acid

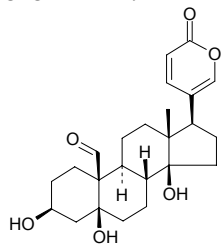
$C_{24}H_{40}O_3$ (376.58). mp 230°C. Source: CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

**2720 5β-Bufol sulfate**

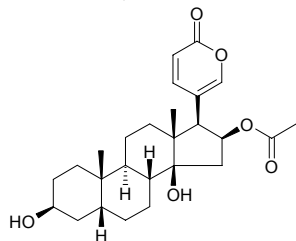
$C_{27}H_{48}O_5$ (452.68). Source: XIA MA DAN *Rana limnocharis*. Ref: 6.

**2721 Bufotalidin**

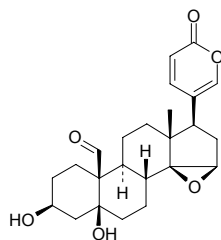
Hellebrigenin [465-90-7] $C_{24}H_{32}O_6$ (416.52). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

**2722 Bufotalin**

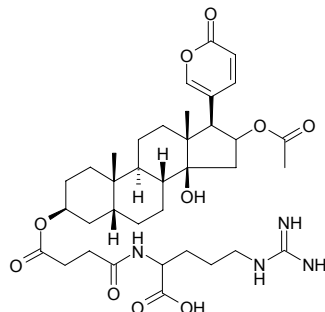
[471-95-4] $C_{26}H_{36}O_6$ (444.57). Pharm: Cytotoxic (*in vitro*, KB, IC_{50} = 0.19 μg/mL; HL-60, IC_{50} < 0.01 μg/mL; MH-60, IC_{50} > 25 μg/mL)^[3082]. Source: CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.72%^[5508]); *Bufo melanostictus* (dried secretion: content = 0.01%^[5508]). Ref: 1521, 3082, 5508.

**2723 Bufotalinin**

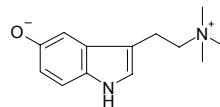
[562-21-0] $C_{24}H_{30}O_6$ (414.50). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

**2724 Bufotalin 3-succinoylarginine ester**

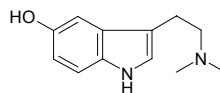
$C_{36}H_{52}N_4O_{10}$ (700.84). Colorless amorphous powder, mp 213–215°C. Source: CHAN PI *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 241.

**2725 Bufotenidine**

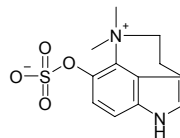
[487-91-2] $C_{13}H_{18}N_2O$ (218.30). Pharm: Anticholinergic; uterine stimulant (gpg uterus *in vitro*). Source: LU ZHU GEN *Arundo donax*. Ref: 1, 2.

**2726 Bufotenine**

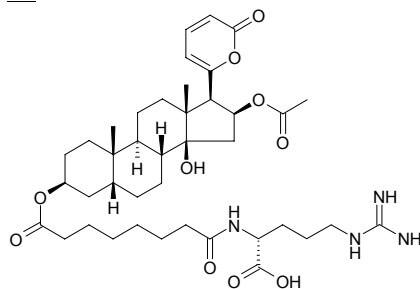
Cinobufotenine [487-93-4] $C_{12}H_{16}N_2O$ (204.27). Pharm: Contracts blood vessels (local); hallucinogen; increases blood pressure; uterine stimulant. Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, LU ZHU GEN *Arundo donax*, CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 658.

**2727 Bufothionine**

$C_{12}H_{14}N_2O_4S$ (282.32). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 1521.

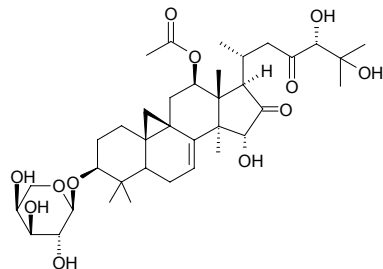
**2728 Bufotoxin**

[464-81-3] $C_{40}H_{60}N_4O_{10}$ (756.95). Pharm: Cardiotonic; LD_{50} (cat, iv) = 0.27 mg/kg. Source: CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 658.

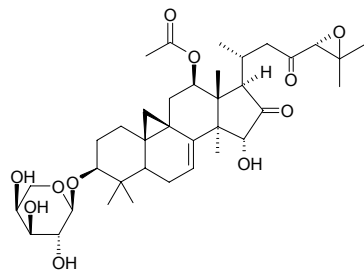


2729 Bugbanoside C

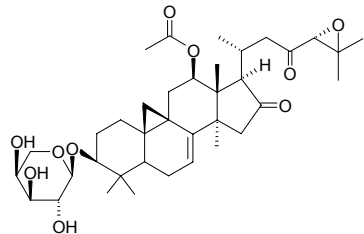
12 β -Acetoxy-3 β ,15 α ,-24R,25-tetrahydroxy-16,23-dione-cycloart-7-ene
3-O- α -L-arabinopyranoside C₃₇H₅₆O₁₂ (692.85). Colorless powder
(MeOH-isopropyl ether), mp 157~158°C, [α]_D = -57.5° (c = 0.98, MeOH).
Source: YE SHENG MA *Cimicifuga simplex* (underground part). Ref: 3516.

**2730 Bugbanoside D**

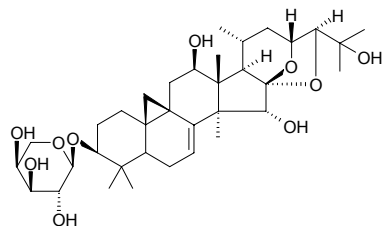
12 β -Acetoxy-24R,25-epoxy-3 β ,15 α -dihydroxy-16,23-dione-cycloart-7-ene
3-O- α -L-arabinopyranoside C₃₇H₅₄O₁₁ (674.84). Colorless powder
(MeOH-isopropyl ether), mp 171~172°C, [α]_D = -58.1° (c = 0.33, MeOH).
Source: YE SHENG MA *Cimicifuga simplex* (underground part). Ref: 3516.

**2731 Bugbanoside E**

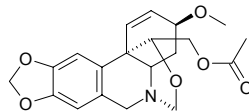
12 β -Acetoxy-24R,25-epoxy-3 β -hydroxy-16,23-dione-cycloart-7-ene
3-O- α -L-arabinopyranoside C₃₇H₅₄O₁₀ (658.84). colorless powder
(MeOH-isopropyl ether), mp 125~126°C, [α]_D = -54.2° (c = 0.52, MeOH).
Source: YE SHENG MA *Cimicifuga simplex* (underground part). Ref: 3516.

**2732 Bugbanoside F**

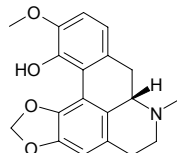
16,23R: 16,24S-Diepoxy-3 β ,12 β ,15 α ,25-tetrahydroxy-cycloart-7-ene
3-O- α -L-arabinopyranoside C₃₅H₅₄O₁₀ (634.81). colorless powder
(MeOH-isopropyl ether), mp 255~256°C, [α]_D = -18.5° (c = 0.36, MeOH).
Source: YE SHENG MA *Cimicifuga simplex* (underground part). Ref: 3516.

**2733 Bujeine**

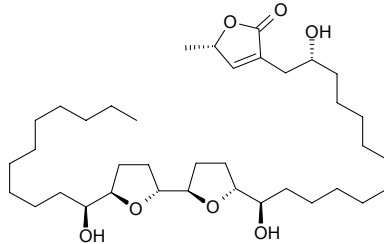
C₂₀H₂₃NO₆ (373.41). mp. 140~142°C, [α]_D²² = 129.4° (c = 0.11, MeOH)
Source: YI BI LI YA SHUI XIAN *Narcissus bujei*. Ref: 1887.

**2734 Bulbocapnine**

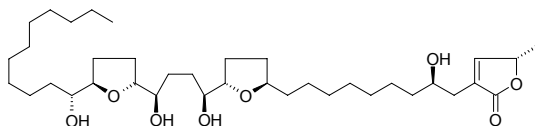
[298-45-3] C₁₉H₁₉NO₄ (325.37). Pharm: Anticholinergic; anti-gastrin; dopamine receptor antagonist (in CNS); causes tetanic coma; inhibits excitation of striatum adenylyl cyclase caused by dopamine; inhibits small intestinal movement (*in vitro*); sedative; uterine stimulant (gpg and rbt); hypnotic (synergist of hypnotics); vasodilator; LD₅₀ (mus, giving drug in rib) = 195mg/kg. Source: AO XIAN ZI JIN *Corydalis cava*, GAO JIA SUO ZI JIN *Corydalis caucasica*, HUANG HAI YING SU *Glaucium flavum*, JU HUA HUANG LIAN *Corydalis pallida*, MA CHANG LI ZI JIN *Corydalis marschalliana*, MEI LI HAI YING SU *Glaucium pulchrum*, SHAN YAN HU SUO *Corydalis bulbosa* [Syn. *Corydalis solida*], XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*], YAO YONG QIU GUO ZI JIN *Fumaria officinalis*. Ref: 1, 6.

**2735 Bullatacin**

C₃₇H₆₆O₇ (622.93). Colorless oil, [α]_D²⁴ = +17.5° (c = 0.13, CHCl₃). Pharm: Cytotoxic (hmn hepatoma cell lines HepG2, IC₅₀ = 0.063ng/mL, control Adriamycin, IC₅₀ = 0.241 μ g/mL; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, IC₅₀ = 0.069ng/mL, Adriamycin, IC₅₀ = 0.450 μ g/mL)^[5377]; cytotoxic (*in vitro*, 9PS ED₅₀ = 1 \times 10⁻¹⁵ μ g/mL, 9KB ED₅₀ = 6.2 \times 10⁻¹⁴ μ g/mL, A549 ED₅₀ = 1.3 \times 10⁻¹³ μ g/mL, HT29 ED₅₀ = 1 \times 10⁻¹² μ g/mL, MCF7 ED₅₀ < 1 \times 10⁻¹² μ g/mL)^[2167]; antineoplastic (*in vivo*: rat, L₁₂₁₀, 0.05mg/kg, T/C = 138%; hmn, A2780, 0.1mg/kg, InRt = 68%)^[2167]. Source: FAN LI ZHI *Annona squamosa*, PAO ZHUANG FAN LI ZHI *Annona bullata*, CI GUO FAN LI ZHI *Annona muricata*, Ref: 2167, 5377.

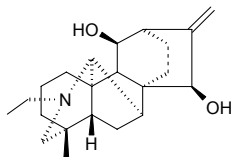
**2736 Bullatanocin**

Squamostatin C C₃₇H₆₆O₈ (638.93). White powder (hexane-chloroform) or white wax (chloroform), [α]_D²² = +14.4° (c = 0.55, chloroform). Pharm: Cytotoxic (BST, LC₅₀ = 0.43 μ g/mL, A549 *in vitro*, ED₅₀ = 5.15 \times 10⁻¹⁰ μ g/mL, MCF7 *in vitro*, ED₅₀ = 0.0242 μ g/mL, HT29 *in vitro*, ED₅₀ = 1.66 \times 10⁻¹¹ μ g/mL)^[1077]. Source: FAN LI ZHI *Annona squamosa*. Ref: 1018, 1077, 1171.

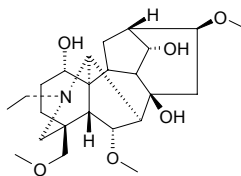


2737 Bullatine A

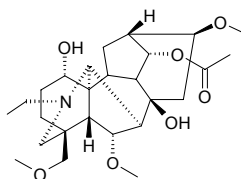
$C_{22}H_{33}NO_2$ (343.51). mp 251~253°C. **Pharm:** Analgesic (mus, chloride 1mg/kg); LD₅₀ (mus, sc, chloride) = 21.96mg/kg. **Source:** BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nazarum*]. **Ref:** 1, 6.

**2738 Bullatine B**

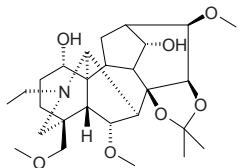
Neoline [466-26-2] $C_{24}H_{39}NO_6$ (437.58). Colorless powder, mp 158~159°C, $[\alpha]_D^{26} = +19.2^\circ$ ($c = 0.826$, EtOH). **Pharm:** Analgesic (mus, chloride 1mg/kg); LD₅₀ (mus, sc, chloride) = (2.99±0.08)mg/kg. **Source:** BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nazarum*], GUA YE WU TOU *Aconitum hemsleyanum*, WU TOU *Aconitum carmichaeli*, FU ZI *Aconitum carmichaeli* (tuber). **Ref:** 1, 6, 239, 461, 2208, 4373.

**2739 Bullatine C**

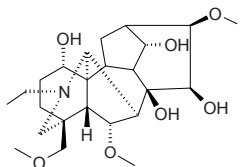
14-*O*-Acetylneoline [1354-86-5] $C_{26}H_{41}NO_7$ (479.62). mp 220°C. **Pharm:** Analgesic (mus, chloride 1mg/kg). **Source:** BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nazarum*], FU ZI *Aconitum carmichaeli* (tuber). **Ref:** 1, 6, 4373.

**2740 Bullatine E**

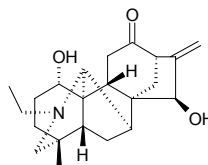
$C_{27}H_{43}NO_7$ (493.65). **Source:** BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nazarum*]. **Ref:** 1, 6.

**2741 Bullatine F**

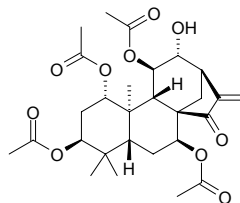
Nagarine [80665-73-2] $C_{24}H_{39}NO_7$ (453.58). mp 186°C. **Source:** XUE SHANG YI ZHI HAO *Aconitum brachypodum*. **Ref:** 6.

**2742 Bullatine G**

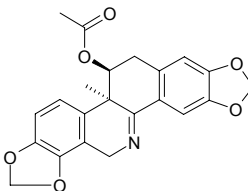
Napellonine [509-24-0] $C_{22}H_{31}NO_3$ (357.50). mp 210~212°C. **Source:** WU TOU *Aconitum carmichaeli*, XUE SHANG YI ZHI HAO *Aconitum brachypodum*. **Ref:** 4, 6, 239, 461, 660.

**2743 Bulleyanin**

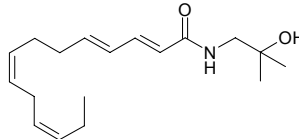
$C_{28}H_{38}O_{10}$ (534.61). mp 240~244°C. **Source:** CANG SHAN XIANG CHA CAI *Isodon bulleyana*. **Ref:** 4067.

**2744 Bungeanine**

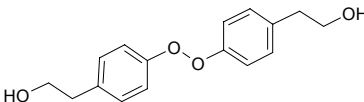
$C_{22}H_{19}NO_6$ (393.40). **Source:** KU DI DING *Corydalis bungeana*. **Ref:** 660.

**2745 Bungeanool**

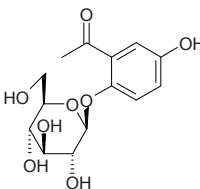
[117568-40-8] $C_{18}H_{29}NO_2$ (291.44). **Source:** HUA JIAO *Zanthoxylum bungeanum*. **Ref:** 1521.

**2746 Bungein A**

$C_{16}H_{18}O_4$ (274.32). Colorless wax. **Source:** CHOU MU DAN *Clerodendrum bungei*. **Ref:** 897.

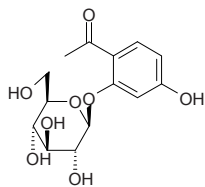
**2747 Bungeiside A**

$C_{14}H_{18}O_8$ (314.29). **Source:** BAI SHOU WU *Cynanchum bungei*. **Ref:** 660.

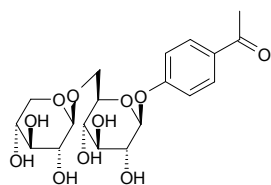


2748 Bungeiside B

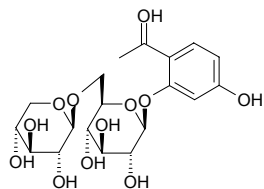
$C_{14}H_{18}O_8$ (314.29). Source: BAI SHOU WU *Cynanchum bungei*. Ref: 660.

**2749 Bungeiside C**

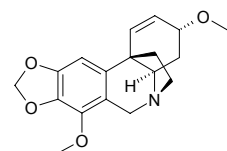
$C_{19}H_{26}O_{11}$ (430.41). Source: BAI SHOU WU *Cynanchum bungei*. Ref: 660.

**2750 Bungeiside D**

$C_{19}H_{26}O_{12}$ (446.41). Source: BAI SHOU WU *Cynanchum bungei*. Ref: 660.

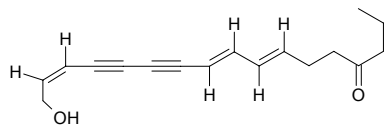
**2751 Buphanidrine**

$C_{18}H_{21}NO_4$ (315.37). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

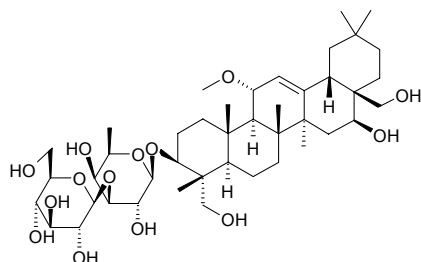
**2752 Bupleuronol**

[111128-28-0] $C_{17}H_{20}O_2$ (256.35). Colorless lamellar crystals, mp 22°C.

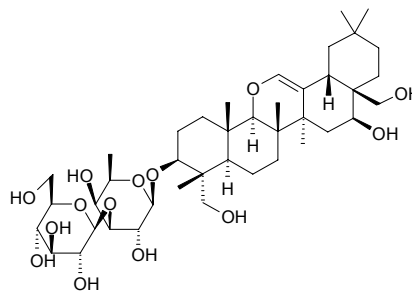
Source: DA YE CHAI HU *Bupleurum longiradiatum*. Ref: 81, 1521.

**2753 Bupleuroside III**

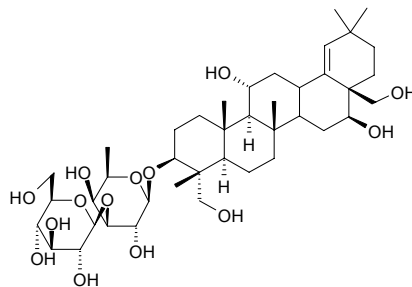
$C_{43}H_{72}O_{14}$ (813.04). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**2754 Bupleuroside VI**

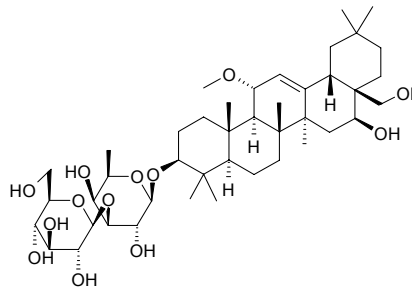
$C_{41}H_{68}O_{14}$ (789.99). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**2755 Bupleuroside XIII**

$C_{41}H_{68}O_{14}$ (784.99). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

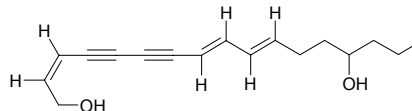
**2756 Bupleuroside IX**

$C_{43}H_{72}O_{13}$ (797.05). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**2757 Bupleurotoxin**

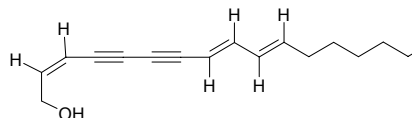
14-Hydroxy-bupleurynol [111128-27-9] $C_{17}H_{22}O_2$ (258.36). Colorless lamellar crystals, mp 54°C (methanol), $[\alpha]_D^{18} = +20^\circ$ ($c = 0.021$, methanol).

Pharm: LD₅₀ (mus, ip) = 3.03mg/kg. Source: DA YE CHAI HU *Bupleurum longiradiatum*. Ref: 81, 1521.

**2758 Bupleurynol**

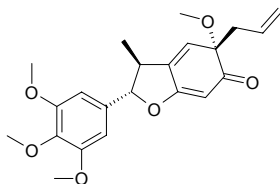
[111128-29-1] $C_{17}H_{22}O$ (242.36). Colorless lamellar crystals, mp 36°C.

Source: DA YE CHAI HU *Bupleurum longiradiatum*. Ref: 81, 1521.

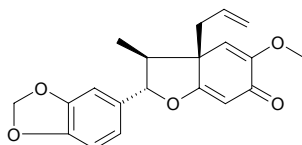


2759 Burcellin

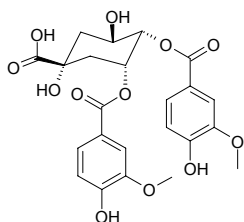
$C_{22}H_{26}O_6$ (386.45). Source: YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 4439.

**2760 Burchellin**

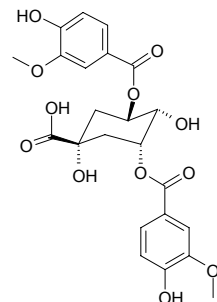
[38276-59-4] $C_{20}H_{20}O_5$ (340.38). White amorphous powder, $[\alpha]_D^{33} = +42.0^\circ$ ($c = 0.006$, chloroform). Source: SHAN JU *Piper hancei*. Ref: 75.

**2761 Burkinabin A**

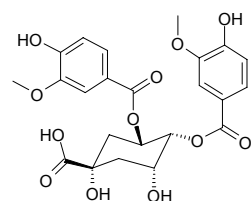
3,4-*O*-Divanillylquinic acid $C_{23}H_{24}O_{12}$ (492.44). Source: *Fagara xanthoxyloides* (root cortex). Ref: 3804.

**2762 Burkinabin B**

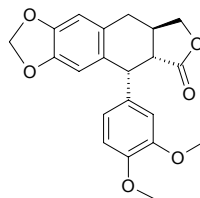
3,5-*O*-Divanillylquinic acid $C_{23}H_{24}O_{12}$ (492.44). Source: *Fagara xanthoxyloides* (root cortex). Ref: 3804.

**2763 Burkinabin C**

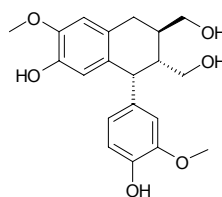
4,5-*O*-Divanillylquinic acid $C_{23}H_{24}O_{12}$ (492.44). Source: *Fagara xanthoxyloides* (root cortex). Ref: 3804.

**2764 Bursehemim**

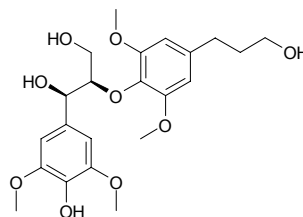
$C_{21}H_{20}O_6$ (368.39). Source: E SHEN *Anthriscus sylvestris*. Ref: 5499.

**2765 Burselignan**

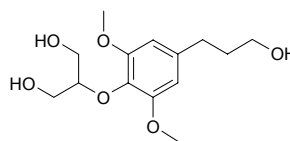
8 α -(4-Hydroxy-3-methoxy-phenyl)-6 β ,7 α -bis-hydroxymethyl-3-methoxy-5,6,7,8-tetrahydro-naphthalen-2-ol $C_{20}H_{24}O_6$ (360.41). White powder, $[\alpha]_D^{20} = -64.2^\circ$ ($c = 0.01$, MeOH). Pharm: Cytotoxic inactive (100 μ g/mL: KB, LNCaP, and Col2 cells). Source: YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 5336.

**2766 Burseneolignan**

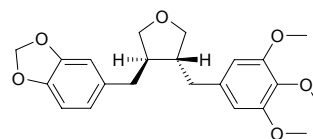
1*R**-(4-Hydroxy-3,5-dimethoxy-phenyl)-2*R**-[4-(3-hydroxy-propyl)-2,6-dimethoxy-phenoxy]-propane-1,3-diol $C_{22}H_{30}O_9$ (438.48). Colorless syrup, $[\alpha]_D^{20} = +14.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (100 μ g/mL: KB, LNCaP, and Col2 cells). Source: YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 5336.

**2767 Bursephenylpropane**

2-[4-(3-Hydroxy-propyl)-2,6-dimethoxyphenoxy]-propane-1,3-diol $C_{14}H_{22}O_6$ (286.33). Colorless syrup. Pharm: Cytotoxic inactive (100 μ g/mL: KB, LNCaP, and Col2 cells). Source: YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 5336.

**2768 Burseran**

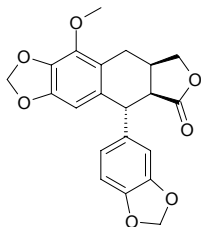
[23284-23-3] $C_{22}H_{26}O_6$ (386.45). Oil, $[\alpha]_D^{20} = +37.5^\circ$. Pharm: Antineoplastic (hmn epidermoid nasopharyngeal carcinoma 9KB, EC = 0.026 μ g/mL). Source: XIAO YE LIE LAN *Bursera microphylla*. Ref: 658, 661.



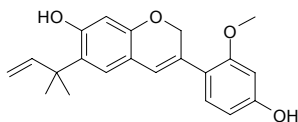
2769 Burseranin

$C_{21}H_{18}O_7$ (382.37). Colorless waxy solid, $[\alpha]_D = +32^\circ$ ($c = 0.27$, MeOH).

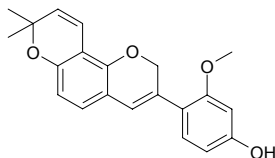
Pharm: Cytotoxic (hmn fibrosarcoma cells HT1080, $ED_{50} = 5.5 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** LIE WEI LIE LAN *Bursera graveolens* (stem). **Ref:** 4437.

**2770 Burttinol A**

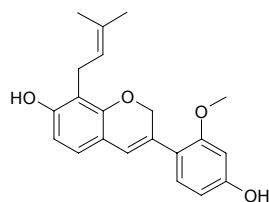
$C_{21}H_{22}O_4$ (338.41). Oil. **Source:** KEN NI YA CI TONG *Erythrina burtii*. **Ref:** 1986.

**2771 Burttinol B**

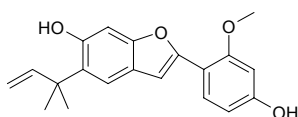
Erypoegin B $C_{21}H_{20}O_4$ (336.39). Colorless oil. **Source:** KEN NI YA CI TONG *Erythrina burtii*, SHAN DI CI TONG *Erythrina poeppigiana*. **Ref:** 1972, 1986.

**2772 Burttinol C**

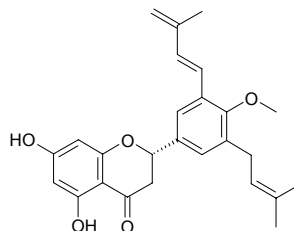
Erypoegin A $C_{21}H_{22}O_4$ (338.41). Colorless oil. **Source:** KEN NI YA CI TONG *Erythrina burtii*, SHAN DI CI TONG *Erythrina poeppigiana*. **Ref:** 1972, 1986.

**2773 Burttinol D**

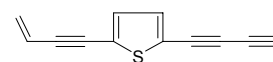
$C_{20}H_{20}O_4$ (324.38). Oil. **Source:** KEN NI YA CI TONG *Erythrina burtii*. **Ref:** 1986.

**2774 Burttinonedehydrate**

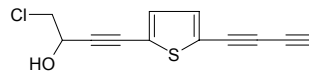
5,7-Dihydroxy-4'-methoxy-3'-(3-methylbutadienyl)-5'-(3-methylbut-2-enyl)-a vanone $C_{26}H_{28}O_6$ (420.51). Oil, $[\alpha]_D = -66^\circ$ ($c = 0.01$, MeOH). **Source:** KEN NI YA CI TONG *Erythrina burtii* (stem bark). **Ref:** 3387.

**2775 2-(Buta-1,3-diyynyl)-5-(but-3-en-1-ynyl) thiophene**

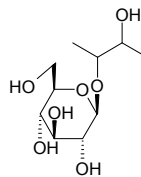
$C_{12}H_6S$ (182.25). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 6.

**2776 2-(Buta-1,3-diyynyl)-5-(4-chloro-3-hydroxybut-1-ynyl) thiophene**

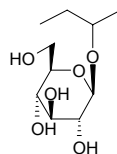
$C_{12}H_7ClOS$ (234.71). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 6.

**2777 Butane-2,3-diol 2-O-β-D-glucopyranoside**

$C_{10}H_{20}O_7$ (252.27). Amorphous powder, $[\alpha]_D^{23} = -32^\circ$. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit). **Ref:** 3525.

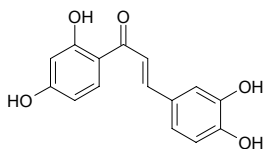
**2778 Butan-2-O-β-D-glucopyranoside**

$C_{10}H_{20}O_6$ (23.627). White gum; $[\alpha]_D^{20} = -89.49^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Inhibitory activity against NFAT transcription ($IC_{50} > 100 \mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01) \mu\text{mol/L}$)^[2536]. **Source:** HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. **Ref:** 2536.

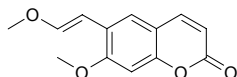


2779 Butein

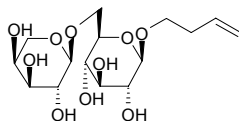
3,4,2',4'-Tetrahydroxychalcone [21849-70-7] C₁₅H₁₂O₅ (272.26). Yellow powder, mp 243–247°C; mp 213–215°C. **Pharm:** Reduced coenzyme I (NADH) oxidase inhibitor; succinic oxidase inhibitor; antifibrogenic (rats, 10mg/(kg·d) or 25mg/(kg·d), significant reduces concentrations of hydroxyproline and malondialdehyde). **Source:** CI HUI HUA *Robinia pseudoacacia*, LU CAO *Rhaponticum carthamoides*, MI HUA DOU *Spatholobus suberectus*, QI ZI *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*]. **Ref:** 6, 658, 698, 2205, 5473.

**2780 6-(trans-1-Buten-3-oxy)-7-methoxycoumarin**

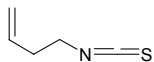
C₁₃H₁₂O₄ (232.24). mp 225°C. **Source:** YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**2781 3-Butenyl-6'-O-α-L-arabinopyranosyl-β-D-glucopyranoside**

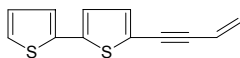
C₁₅H₂₆O₁₀ (366.37). Amorphous powder, [α]_D²⁷ = -31.5° (c = 0.677, MeOH). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 2528.

**2782 3-Butenyl isothiocyanate**

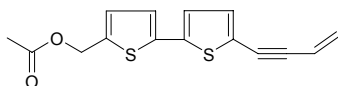
[3386-97-8] C₃H₇NS (113.18). bp 78.5°C/26mmHg. **Source:** GAN LAN *Brassica oleracea* var. *capitata*, JIE ZI *Brassica juncea*. **Ref:** 6.

**2783 5-(3-Buten-1-ynyl)-2,2'-bithienyl**

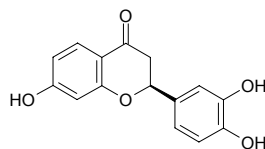
C₁₂H₈S₂ (216.33). **Pharm:** Antifungal; nematocide. **Source:** WAN SHOU JU *Tagetes erecta*, WEI XIAO WAN SHOU JU *Tagetes minuta*. **Ref:** 6, 658, 660.

**2784 5-(3-Buten-1-ynyl)-2,2'-bithienyl-5'-methylacetate**

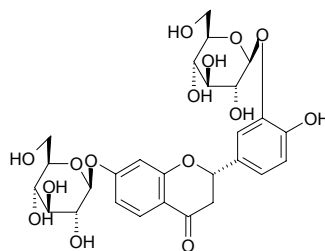
C₁₅H₁₂O₂S₂ (288.39). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 6.

**2785 Butin**

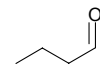
7,3',4'-Trihydroxyflavanone [21913-99-5] C₁₅H₁₂O₅ (272.26). mp 224–226°C. **Source:** CI HUI HUA *Robinia pseudoacacia*. **Ref:** 6.

**2786 Butrin**

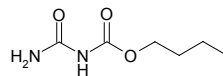
[492-13-7] C₂₇H₃₂O₁₅ (596.55). **Pharm:** Antihepatotoxin. **Source:** DAN ZI ZI MAO *Butea monosperma*. **Ref:** 658.

**2787 n-Butylaldehyde**

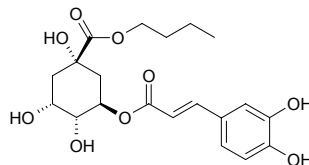
Propanecarbaldehyde [123-72-8] C₄H₈O (72.11). **Source:** SHENG JIANG *Zingiber officinale*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. **Ref:** 2.

**2788 n-Butyl allophanate**

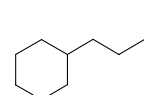
C₆H₁₂N₂O₃ (160.17). **Source:** DANG SHEN *Codonopsis pilosula*. **Ref:** 2.

**2789 Butyl chlorogenate**

C₂₀H₂₆O₉ (410.42). **Source:** JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0072%dw)^[4723]. **Ref:** 4723.

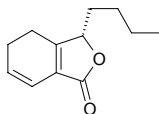
**2790 Butyl-cyclohexane**

[1678-93-9] C₁₀H₂₀ (140.27). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

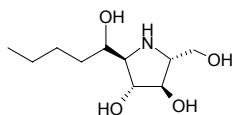


2791 3(S)-3-Butyl-4,5-dihydrophthalide

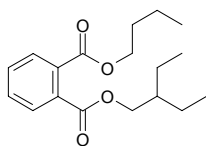
Senkyunolide A [63038-10-8] C₁₂H₁₆O₂ (192.26). **Pharm:** Anticonvulsant; central muscle relaxant; anti-arteriosclerosis (inhibits proliferation of cell in smooth muscle, 5μg/mL InRt = 76.8%); LD₅₀ (mus, orl) > 500mg/kg. **Source:** CHA XIONG *Ligusticum sinense* cv. *chaxiong*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG GUI *Angelica sinensis*, HAN QIN *Apium graveolens*, OU DANG GUI *Levisticum officinale*. **Ref:** 531, 660, 929, 1206, 1265, 1521.

**2792 6-C-Butyl-DMDP**

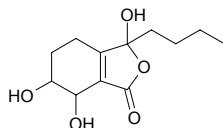
6-C-Butyl derivative of 2*R*,5*R*-bis(hydroxymethyl)-3*R*,4*R*-dihydroxypyrridoline C₁₀H₂₁NO₄ (219.28). [α]_D = +174.3° (*c* = 0.32, H₂O). **Pharm:** Enzymes inhibitor (*α*-glucosidase: rice, IC₅₀ > 1000μmol/L, control DMDP, IC₅₀ = 300μmol/L; yeast, IC₅₀ > 1000μmol/L, control DMDP, IC₅₀ = 3.6μmol/L; rat intestinal maltase, IC₅₀ > 1000μmol/L, control DMDP, IC₅₀ = 290μmol/L; β-glucosidase, almond, IC₅₀ = 68μmol/L, control DMDP, IC₅₀ = 13μmol/L; β-galactosidase, bovine liver, IC₅₀ = 390μmol/L, control DMDP, IC₅₀ = 2.2μmol/L; Trehalase, porcine kidney, IC₅₀ > 1000μmol/L, control DMDP, IC₅₀ = 200μmol/L; amyloglucosidase, *Aspergillus niger*, IC₅₀ = 40μmol/L, control DMDP, IC₅₀ = 19μmol/L). **Source:** RI BEN SAN YE SHA SEN *Adenophora triphylla* var. *japonica* (fresh whole herbs). **Ref:** 3915.

**2793 *n*-Butyl-2-ethylbutylphthalate**

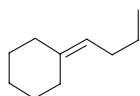
C₁₈H₂₆O₄ (306.41). **Source:** SHUI QIN *Oenanthe javanica*. **Ref:** 6.

**2794 3-*n*-Butyl-3-hydroxy-4,5,6,7-tetrahydro-6,7-dihydroxy phthalide**

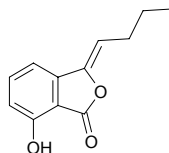
3,6,7-Trihydroxy-4,5,6,7-tetrahydro-3-butyl-phthalide C₁₂H₁₈O₅ (242.27). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

**2795 Butylidenecyclohexane**

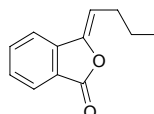
[2272-03-9] C₁₀H₁₈ (138.25). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**2796 3-Butylidene-7-hydroxyphthalide**

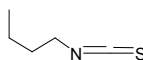
7-Hydroxy-3-butylidene-phthalide C₁₂H₁₂O₃ (204.23). **Pharm:** Coronary vasodilator (dog, enhances blood flow through coronary arteries). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2, 658.

**2797 3-Butylidene-phalide**

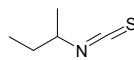
n-Butylidene-phthalide [551-08-6] C₁₂H₁₂O₂ (188.23). **Pharm:** Antiasthmatic; anticholinergic; uterine relaxant. **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG GUI *Angelica sinensis*, DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], YAO YONG SHE CHUANG *Cnidium officinale* [Syn. *Ligusticum officinale*], ZHI GEN DANG GUI *Angelica radix*. **Ref:** 1, 2, 601.

**2798 Butyl isothiocyanate**

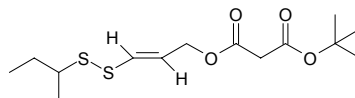
[592-82-5] C₅H₉NS (115.20). bp 167°C. **Source:** JIE ZI *Brassica juncea*. **Ref:** 6.

**2799 *sec*-Butyl isothiocyanate**

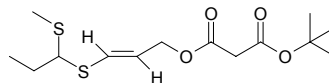
2-Isothiocyanato-butane [4426-79-3] C₅H₉NS (115.20). bp 159°C. **Source:** JIE ZI *Brassica juncea*. **Ref:** 6.

**2800 *t*-Butyl 3-[(1-methylpropyl)dithio]-2-propenyl malonate**

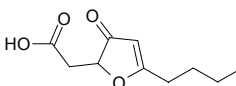
C₁₄H₂₄O₄S₂ (320.47). Yellow oil, [α]_D²⁵ = -24.3° (*c* = 2.2, CHCl₃). **Source:** BO SI A WEI BIAN ZHONG *Ferula persica* var. *latisecta*. **Ref:** 3430.

**2801 *t*-Butyl 3-[(1-methylthiopropyl)thio]-2-propenyl malonate**

C₁₄H₂₄O₄S₂ (320.47). Yellow oil, [α]_D²⁵ = +27° (*c* = 1.3, CHCl₃). **Source:** BO SI A WEI BIAN ZHONG *Ferula persica* var. *latisecta*. **Ref:** 3430.

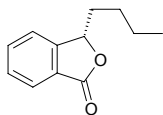
**2802 (5-Butyl-3-oxo-2,3-dihydrofuran-2-yl)-acetic acid**

C₁₀H₁₅O₄ (198.22). White oily gum, [α]_D²⁵ = +29° (*c* = 0.07, MeOH) **Pharm:** Inhibits germination (lettuce seed, IC₅₀ = (2.13±0.03)mmol/L, positive control 4-Hydroxybenzoic acid, IC₅₀ = (4.02±0.39)mmol/L). **Source:** YI NIAN PENG *Erigeron annuus*. **Ref:** 2028.

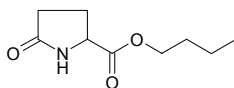


2803 3-Butyl-phthalide

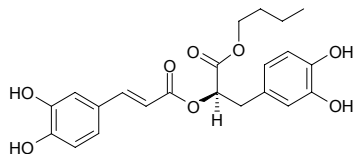
n-Butyl-phthalide [6066-49-5] C₁₂H₁₄O₂ (190.24). bp 140~141°C/2.4mmHg, 177~178°C/15mmHg. **Pharm:** Antispasmodic; uterine relaxant. **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (root and rhizome: content = 1.78%^[5508]), DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], DUAN PIAN GAO BEN *Ligusticum brachylobum* (root and rhizome: content = trace)^[5508], GAO BEN *Ligusticum sinense* (root and rhizome: content = trace)^[5508], HAN QIN BIAN ZHONG *Apium graveolens* var. *dulce*, LIAO GAO BEN *Ligusticum jeholense* (root and rhizome: content = trace)^[5508], XIN JIANG GAO BEN *Contioselinum vaginatum* (root and rhizome: content = trace)^[5508]. **Ref:** 1, 2, 5508.

**2804 *n*-Butyl pyroglutamate**

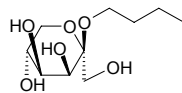
C₉H₁₅NO₃ (185.22). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2487.

**2805 Butyl rosmarinate**

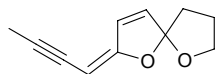
C₂₂H₂₄O₈ (416.43). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 0.2706mmol/L, control Propyl gallate, IC₅₀ = 0.03mol/L; superoxide radical inhibitor, inactive, Propyl gallate, IC₅₀ = 0.106mmol/L; iron chelating assay, inactive, Propyl gallate, IC₅₀ = 0.064mmol/L). **Source:** MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindlofia stylosa* (aerial parts). **Ref:** 4533.

**2806 β-*n*-Butyl-*D*-tagatopyranoside**

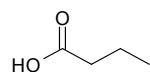
C₁₀H₂₀O₆ (236.27). Colorless needles, mp 145~147°C. **Source:** BAN LAN GEN *Isatis indigotica*. **Ref:** 4587.

**2807 2-(Butyn-2-ylidene)-*A*³-dihydrofuran[5-spiro-2']tetrahydrofuran**

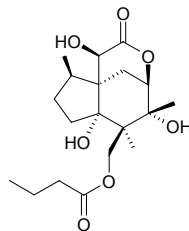
C₁₁H₁₂O₂ (176.22). **Source:** MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*]. **Ref:** 6.

**2808 Butyric acid**

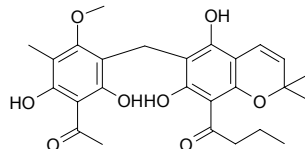
Butanoic acid [107-92-6] C₄H₈O₂ (88.11). **Pharm:** Flavorant. **Source:** PU⁽²⁾ TAO *Vitis vinifera*. **Ref:** 2, 658, 660.

**2809 14-*O*-*n*-Butyrylfloridanolide**

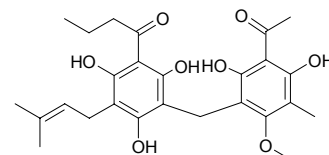
C₁₉H₃₀O₇ (370.45). Colorless amorphous, [α]_D²⁰ = -14° (c = 0.65, CHCl₃). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 5113.

**2810 Butyrylma iltochromene**

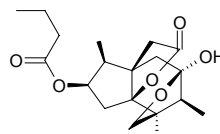
C₂₆H₃₀O₈ (470.52). **Pharm:** Cytotoxic (KB). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 658.

**2811 Butyrylmallotojaponin**

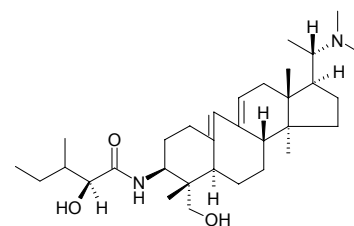
[96853-73-5] C₂₆H₃₂O₈ (472.54). Yellow acicular crystals, mp 170~171°C (methanol). **Pharm:** Cytotoxic (*in vitro*: HeLa, ID₅₀ = 362ng/mL; KB, ED₅₀ = 0.72μg/mL; Hep2, IC₅₀ = 0.41μg/mL; PC13, IC₅₀ = 0.91μg/mL; B16, IC₅₀ = 0.60μg/mL; L5178Y, IC₅₀ = 1.08μg/mL; P₃₈₈, IC₅₀ = 2.85μg/mL); Antiviral (inhibits replication of HSV-1, ED₅₀ = 165ng/mL). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 974, 1059, 1145, 1190.

**2812 2-*O*-*n*-Butyrylpseudomajucin**

C₁₉H₂₈O₆ (352.43). Colorless powder, [α]_D²⁰ = -61.9° (c = 0.65, CH₃OH). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 5113.

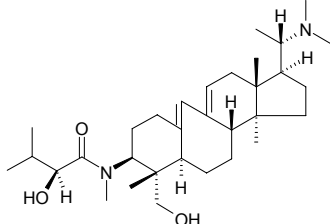
**2813 (-)-Buxahejramine**

(2*S*)-20-Dimethylamino-20-hydroxy-3β-methyl-3'-methyl-pentanoylamino-9,10-seco-buxa-9(11),10(19)-dien-31-ol C₃₂H₅₄N₂O₃ (514.80). [α]_D²⁵ = -7° (c = 0.14, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (162±5)μmol/L, control Physostigmine, IC₅₀ = (0.041±0.001)μmol/L). **Source:** DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). **Ref:** 5216.

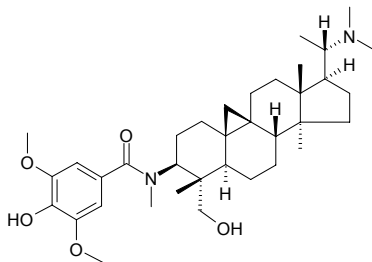


2814 (-)-Buxakarachiamine

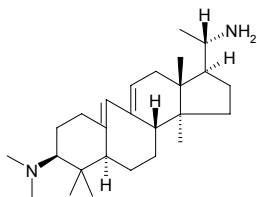
(2*S*)-20-Dimethylamino-2'-hydroxy-3 β -methyl-3'-methyl-butanoylamino-9,10-seco-buxa-9(11),10(19)-dien-31-ol C₃₂H₅₄N₂O₃ (514.80). [α]_D²⁵ = -9° (*c* = 0.22, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (143±1.3)μmol/L, control Physostigmine, IC₅₀ = (0.041±0.001)μmol/L). **Source:** DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). **Ref:** 5216.

**2815 (-)-Buxakashmiramine**

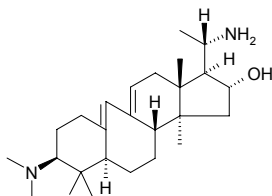
(2*S*)-20-Dimethylamino-4',6'-dimethoxy-5'-hydroxybenzoylamino-3 β -methylbuxan-31-ol C₃₆H₅₆N₂O₅ (596.86). [α]_D²⁵ = -3° (*c* = 0.62, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (25.4±1.1)μmol/L, control Physostigmine, IC₅₀ = (0.041±0.001)μmol/L); BChE inhibitor (IC₅₀ = (0.74±0.03)μmol/L, control Physostigmine, IC₅₀ = (0.875±0.008)μmol/L). **Source:** DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). **Ref:** 5216.

**2816 Buxamine E**

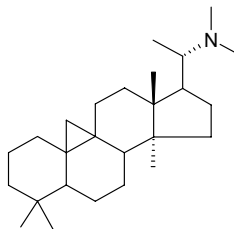
[14317-17-0] C₂₆H₄₄N₂ (384.65). **Pharm:** Laxative. **Source:** JIN SHU HUANG YANG *Buxus sempervirens* (the compound was separated from the plant by D. Stanfächer, et al. in 1964)^[5505]. **Ref:** 6, 658, 5505.

**2817 Buxaminol E**

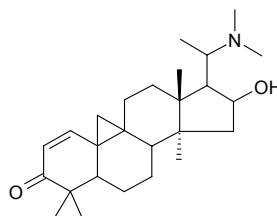
[14155-76-1] C₂₆H₄₄N₂O (400.65). mp 199~200°C. **Source:** HUANG YANG MU YE *Buxus microphylla* var. *sinica*. **Ref:** 6.

**2818 Buxbodine A**

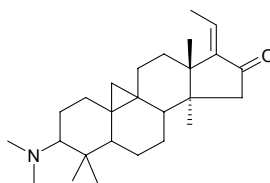
20 α -Dimethylamino-9 β ,19-cyclo-4,4,14 α -trimethyl-5 α -pregnane C₂₆H₄₅N (371.66). Colorless crystals mp 191~193°C. **Source:** QUE SHE HUANG YANG *Buxus bodinieri*. **Ref:** 2138.

**2819 Buxbodine B**

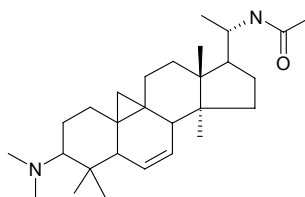
16 β -Hydroxy-20 α -dimethylamino-9 β ,19-cyclo-4,4,14 α -trimethyl-5 α -pregnane C₂₆H₄₁NO₂ (399.62). Colorless crystals mp 202~205°C. **Source:** QUE SHE HUANG YANG *Buxus bodinieri*. **Ref:** 2138.

**2820 Buxbodine C**

3 β -Dimethylamino-9 β ,19-cyclo-4,4,14 α -trimethyl-5 α -pregn-6(7),17(20)-dien-16-one C₂₆H₄₁NO (383.62). Colorless crystals mp 150~154°C. **Source:** QUE SHE HUANG YANG *Buxus bodinieri*. **Ref:** 2138.

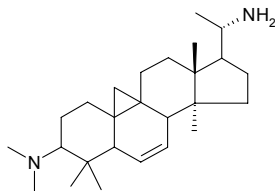
**2821 Buxbodine D**

3 β -Dimethylamino-20 α -acetoxylamino-9 β ,19-cyclo-4,4,14 α -trimethyl-5 α -pregn-6(7)-ene C₂₈H₄₆N₂O (426.69). Colorless crystals mp 212~215°C. **Source:** QUE SHE HUANG YANG *Buxus bodinieri*. **Ref:** 2138.

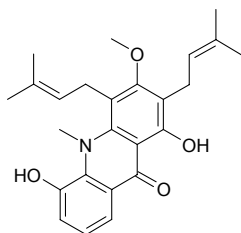


2822 Buxbodine E

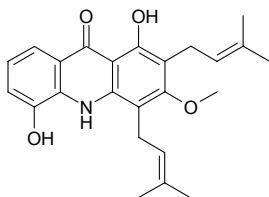
3-(Dimethylamino-20 α -amino-9 β ,19-cyclo-4,4,14 α -trimethyl-5 α -pregn-6(7)-ene C₂₆H₄₄N₂ (384.65). Colorless crystals mp 194~197°C. Source: QUE SHE HUANG YANG *Buxus bodinieri*. Ref: 2138.

**2823 Buxifoliadine A**

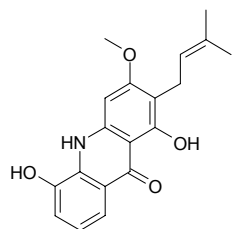
C₂₅H₂₉NO₄ (407.51). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**2824 Buxifoliadine B**

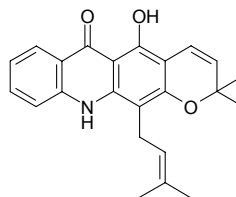
C₂₄H₂₇NO₄ (393.49). Pharm: Cytotoxic (*in vitro*: Colon205, ED₅₀ = 1.2 μ g/mL; hep-3B, ED₅₀ > 25 μ g/mL, inactive; KB, ED₅₀ > 25 μ g/mL, inactive)^[3075]. Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**2825 Buxifoliadine C**

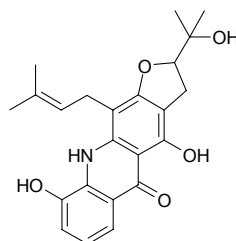
C₁₉H₁₉NO₄ (325.37). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**2826 Buxifoliadine D**

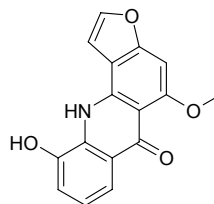
C₂₃H₂₃NO₃ (361.44). Pharm: Cytotoxic (*in vitro*: Colon205, ED₅₀ = 0.58 μ g/mL; hep-3B, ED₅₀ > 25 μ g/mL, inactive; KB, ED₅₀ > 25 μ g/mL, inactive)^[3075]. Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**2827 Buxifoliadine E**

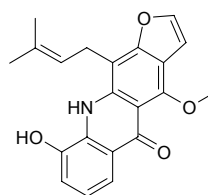
C₂₃H₂₅NO₅ (395.46). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**2828 Buxifoliadine F**

C₁₆H₁₁NO₄ (281.27). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

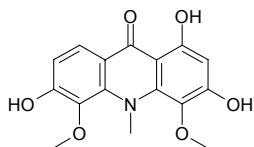
**2829 Buxifoliadine G**

C₂₁H₁₉NO₄ (349.39). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

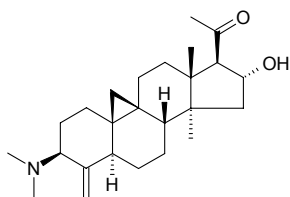


2830 Buxifoliadine H

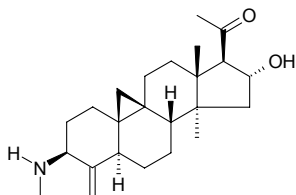
$C_{16}H_{15}NO_6$ (317.3). **Pharm:** Cytotoxic (*in vitro*: Colon205, $ED_{50} > 25\mu\text{g/mL}$, inactive; hep-3B, $ED_{50} = 5.3\mu\text{g/mL}$; KB, $ED_{50} = 0.22\mu\text{g/mL}$)^[3075]. **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

**2831 Buxpiine**

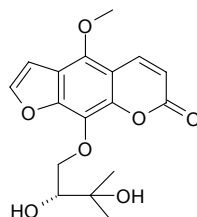
Buxpiine K [3296-11-5] $C_{25}H_{39}NO_2$ (385.60). mp 178–180°C, mp 173°C. **Source:** HUANG YANG MU YE *Buxus microphylla* var. *sinica*. **Ref:** 6.

**2832 Buxtauine**

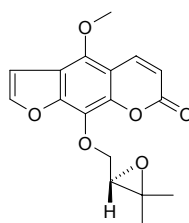
Buxtauine M [4236-73-1] $C_{24}H_{37}NO_2$ (371.57). mp 178–181°C. **Source:** HUANG YANG MU YE *Buxus microphylla* var. *sinica*. **Ref:** 6, 660.

**2833 Byakangelicin**

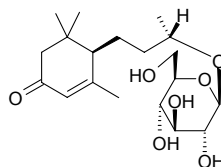
[482-25-7] $C_{17}H_{18}O_7$ (334.33). Yellow amorphous powder, $[\alpha]_D = -13.3^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (HeLa, $ID_{50} = 100\mu\text{g/mL}$); inhibits chorionic gonadotrophin (hmn); antileishmanial (*Leishmania major* promastigote, 10 $\mu\text{mol/L}$, survival = (90.7±1.4)%, 1 $\mu\text{mol/L}$, survival = (98.8±4.6)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.2±0.04)%, 1 $\mu\text{mol/L}$, survival = (71.9±4.4)%)^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*; control Nystatin, MIA = 0.2 μg)^[3797]. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], CHOU CAO *Ruta graveolens*, DA QIAN HU *Peucedanum grande*, GUANG HUA DANG GUI *Angelica glabra*, HONG DU HUO *Heracleum granatense*, OU ZHOU DU HUO *Heracleum pyrenaicum*, XIA GUO QIAN HU *Peucedanum stenocarpum*, YU ZHUANG YUN XIANG *Ruta pinnata*, *Thamnosma rhodesica* (root), *Citrus* sp. **Ref:** 2, 5, 658, 3797, 5392.

**2834 Byakangelicol**

[55173-98-3] $C_{17}H_{16}O_6$ (316.31). **Source:** HANG BAI ZHI *Angelica taiwaniana*. **Ref:** 2, 660.

**2835 Byzantionoside B**

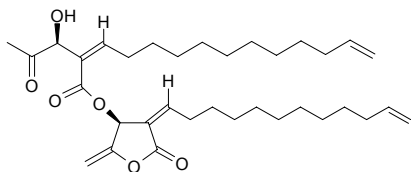
$C_{19}H_{32}O_7$ (372.46). Syrup, $[\alpha]_D^{19} = +21.1^\circ$ ($c = 0.7$, MeOH). **Source:** CHANG HU JIAO *Piper elongatum* (aerial parts). **Ref:** 4239.



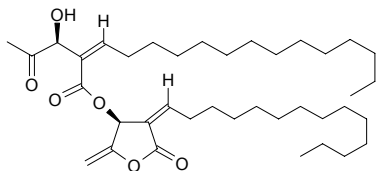
C

2836 C₁₇-Obtusilactone dimer

C₃₄H₅₂O₆ (556.79). Source: SAN ZUAN FENG *Lindera obtusiloba*. Ref: 2881.

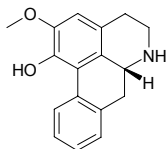
**2837 C₁₉-Obtusilactone dimer**

C₃₈H₆₄O₆ (616.93). Source: SAN ZUAN FENG *Lindera obtusiloba*. Ref: 2890.

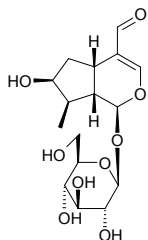
**2838 (-)-Caaverine**

1-Hydroxy-2-methoxy noraporphine [6899-64-5] C₁₇H₁₇NO₂ (267.33). Pharm:

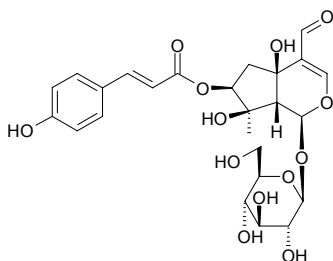
Toxin (animal model). Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 658, 660.

**2839 Cachinaside I**

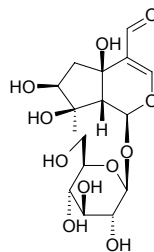
C₁₆H₂₄O₉ (360.36). Source: ZI WEI JING YE *Campsis grandiflora*. Ref: 660.

**2840 Cachinaside III**

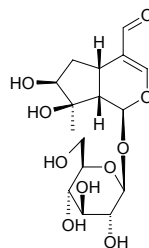
C₂₅H₃₀O₁₃ (538.51). Source: ZI WEI JING YE *Campsis grandiflora*. Ref: 660.

**2841 Cachinaside IV**

C₁₆H₂₄O₁₁ (392.36). Source: ZI WEI JING YE *Campsis grandiflora*. Ref: 660.

**2842 Cachinaside V**

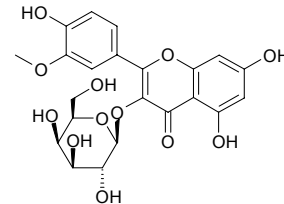
C₁₆H₂₄O₁₀ (376.36). Source: ZI WEI JING YE *Campsis grandiflora*. Ref: 660.

**2843 Cacticin**

Isorhamnetin-3-O-β-D-galactopyranoside C₂₂H₂₂O₁₂ (478.41). mp 267–269°C.

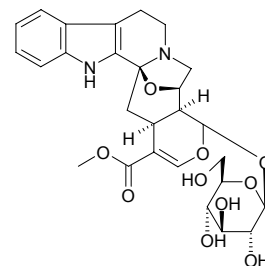
Source: DA LI HUA *Dahlia pinnata* [Syn. *Dahlia variabilis*], GUI JIAN JIN JI ER *Caragana jubata*, JU HUA *Chrysanthemum morifolium* [Syn.

Dendranthema morifolium], SHA ZAO *Elaeagnus angustifolia*, TIAN CONG *Philydrum lanuginosum*, YIN CHEN HAO *Artemisia capillaris*. Ref: 6, 660.

**2844 Cadambine**

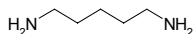
[54422-49-0] C₂₇H₃₂N₂O₁₀ (544.56). Pharm: Antibacterial (*in vitro*:

Staphylococcus aureus, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2, 2178.

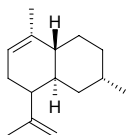


2845 Cadaverine

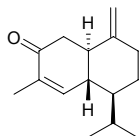
1,5-Diaminopentane [462-94-2] C₅H₁₄N₂ (102.18). bp 178~180°C. **Pharm:** Irritant (to skin); plant growth stimulant (low concentration). **Source:** CAO XIANG WAN *Lathyrus sativus*, CHONG CHUN YU *Hemibarbus labeo*, DI XIA CHE ZHOU CAO *Trifolium subterraneum*, HEI DA DOU *Glycine max*, JIANG *Glycine max*, TAI JING TIAN *Sedum acre*, WAN DOU *Pisum sativum*. **Ref:** 6, 658.

**2846 Cadina-9,11(12)-diene**

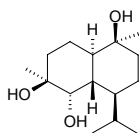
C₁₅H₂₄ (204.36). bp 94°C/2mmHg. **Source:** ZHANG MU *Cinnamomum camphora*. **Ref:** 6.

**2847 Cadina-4,10(15)-dien-3-one**

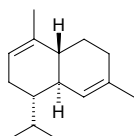
C₁₅H₂₂O (218.34). **Pharm:** Phytogrowth inhibitor (*Raphanus sativus* seeds, IC₅₀ = 0.10µg/mL, control Colchicine, IC₅₀ = 0.40µg/mL); insecticidal (adult *Cylas formicarius elegantulus*, 0.18mg/insect, 24h, mortality = 55%, 48h, mortality = 85%, control Farnesyl methyl ether, 0.18mg/insect, 24h, mortality = 65%, 48h mortality = 95%). **Source:** LUN SHENG SHAN XIANG *Hyptis verticillata*, BAI JIANG JUN *Beauveria bassiana*. **Ref:** 3949.

**2848 Cadinane-4β,5α,10β-triol**

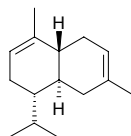
C₁₅H₂₈O₃ (256.39). mp 186~188°C, [α]_D²⁷ = -6.0° (c = 0.26, CHCl₃). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (root). **Ref:** 4371.

**2849 α-Cadinene**

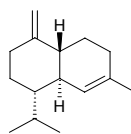
[24406-05-1] C₁₅H₂₄ (204.36). **Source:** PI PA YE *Eriobotrya japonica*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*]. **Ref:** 6, 660.

**2850 β-Cadinene**

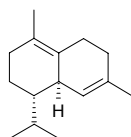
C₁₅H₂₄ (204.36). **Pharm:** Flavorant. **Source:** AI YE *Artemisia argyi*, DUAN YE LUO HAN SONG SHI *Podocarpus macrophyllus* var. *maki*, GAO LIANG JIANG *Alpinia officinarum*, HUANG HUA HAO *Artemisia annua*, JU JIANG YE *Piper betle*, LUO HAN SONG SHI *Podocarpus macrophyllus*, OU ZHOU CI BAI *Juniperus communis*, SHUI CAI *Menyanthes trifoliata*, TIAN MING JING *Carpesium abrotanoides*, XIE CAO *Valeriana officinalis*, YIN CHEN HAO *Artemisia capillaris*, ZHANG MU *Cinnamomum camphora*. **Ref:** 6, 658.

**2851 γ-Cadinene**

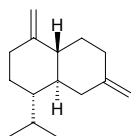
[1460-97-5] C₁₅H₂₄ (204.36). **Source:** HUO XIANG *Agastache rugosus*, HUANG HUA HAO *Artemisia annua*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 660.

**2852 δ-Cadinene**

[483-76-1] C₁₅H₂₄ (204.36). mp (+) 133~134°C/10mmHg, (±) 133°C/10mmHg. **Source:** HUANG HUA HAO *Artemisia annua*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], WU WEI ZI *Schisandra chinensis*, XI XIAN *Siegesbeckia orientalis*. **Ref:** 2, 6, 660.

**2853 ε-Cadinene**

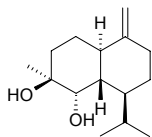
[25548-04-3] C₁₅H₂₄ (204.36). **Source:** MU HAO *Artemisia japonica*, HUANG HUA HAO *Artemisia annua*. **Ref:** 6, 660.



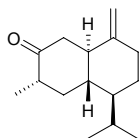
2854 Cadin-10(14)-ene-4 β ,5 α -diol

$C_{15}H_{26}O_2$ (238.37). Amorphous solid, $[\alpha]_D^{27} = -5.9^\circ$ ($c = 0.26$, $CHCl_3$).

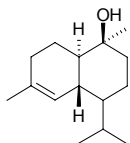
Source: TAI WAN SHAN *Taiwania cryptomerioides* (root). Ref: 4371.

**2855 (4S)-Cadin-10(15)-en-3-one**

$C_{15}H_{24}O$ (220.36). Pale brown oil. Pharm: Phytogrowth inhibitor (*Raphanus sativus* seeds, $IC_{50} = 22.00\mu g/mL$, control Colchicine, $IC_{50} = 0.40\mu g/mL$); insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 90%, 48h mortality = 100%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). Source: BAI JIANG JUN *Beauveria bassiana*. Ref: 3949.

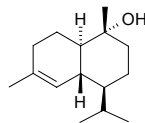
**2856 T-Cadinol**

$C_{15}H_{26}O$ (222.37). Colorless gum. Pharm: Cytotoxic (A549, $ED_{50} = 5.4\mu mol/L$, $ED_{50} = 24.5\mu g/mL$, control Adriamycin, $ED_{50} = 0.01\mu mol/L$, $ED_{50} = 0.02\mu g/mL$; MCF7, $ED_{50} = 2.5\mu mol/L$, $ED_{50} = 11.2\mu g/mL$, Adriamycin, $ED_{50} = 0.1\mu mol/L$, $ED_{50} = 0.2\mu g/mL$; HT29, $ED_{50} = 7.9\mu mol/L$, $ED_{50} = 35.7\mu g/mL$, Adriamycin, $ED_{50} = 0.1\mu mol/L$, $ED_{50} = 0.2\mu g/mL$)^[5088]. Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root), TAI WAN SHAN *Taiwania cryptomerioides* (root, heartwood). Ref: 4371, 5037, 5088.

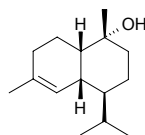
**2857 α -Cadinol**

[481-34-5] $C_{15}H_{26}O$ (222.37). mp 74.8~75.4°C. Pharm: Cytotoxic (*in vitro*, Hepa1c1c7 mouse hepatoma cells, $IC_{50} > 5\mu g/mL$, $CD = 2.3\mu g/mL$, $CI > 2.2$; control Sulforaphane, $IC_{50} = 2.1\mu g/mL$, $CD = 0.087\mu g/mL$, $CI = 24.1$)^[4721], cytotoxic (A549, $ED_{50} = 3.1\mu mol/L$, $ED_{50} = 14.4\mu g/mL$, control Adriamycin, $ED_{50} = 0.01\mu mol/L$, $ED_{50} = 0.02\mu g/mL$; MCF7, $ED_{50} = 2.5\mu mol/L$, $ED_{50} = 11.1\mu g/mL$, Adriamycin, $ED_{50} = 0.1\mu mol/L$, $ED_{50} = 0.1\mu g/mL$; HT29, $ED_{50} = 0.7\mu mol/L$, $ED_{50} = 3.0\mu g/mL$, Adriamycin, $ED_{50} = 0.1\mu mol/L$, $ED_{50} = 0.1\mu g/mL$)^[5088], cytotoxic (quinone reductase induction assay in cultured

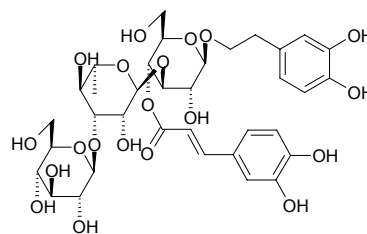
Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: PI PA YE *Eriobotrya japonica*, SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0023%)^[4721], TAI WAN SHAN *Taiwania cryptomerioides* (root), TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). Ref: 6, 4371, 4721, 5038, 5088.

**2858 δ -Cadinol**

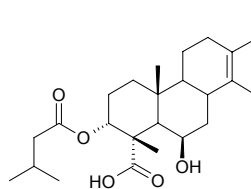
Torreyol [36564-42-8] $C_{15}H_{26}O$ (222.37). mp (+) 137~138°C, (–) 139~140°C. Source: DONG BEI CI REN SHEN *Oplopanax elatus*, GOU GU SHU PI *Ilex cornuta*, TAI WAN SHAN *Taiwania cryptomerioides* (root), WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia Fargesii*], WU DANG MU LAN *Magnolia sprengeri*. Ref: 6, 660, 4371.

**2859 Caerulescenside**

$C_{35}H_{46}O_{20}$ (786.74). Amorphous powder, $[\alpha]_D^{26} = -98^\circ$ ($c = 0.49$, MeOH). Pharm: Antioxidant (relative potency = 4.4, compared with resveratrol, relative potency = 1). Source: LIE DANG *Orobanche coerulescens* (whole herb). Ref: 4920.

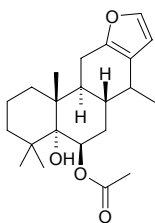
**2860 Caesaldecane**

$C_{25}H_{38}O_5$ (418.58). White crystals, mp 150~153°C, $[\alpha]_D^{25} = +75^\circ$ ($c = 1.0$, $CHCl_3$). Source: YUN SHI *Caesalpinia decapetala* (leaf). Ref: 4456.

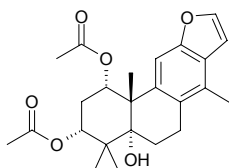


2861 Caesaldekarin A

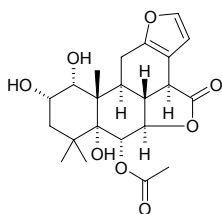
$C_{22}H_{32}O_4$ (360.50). Colorless gum. Source: JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf). Ref: 4394.

**2862 Caesaldekarin E**

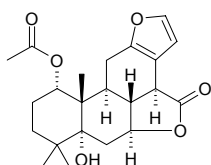
$C_{24}H_{30}O_6$ (414.50). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel), DA YUN SHI *Caesalpinia major*. Ref: 1521, 4434.

**2863 Caesalmin A**

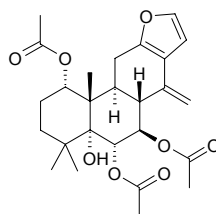
$C_{22}H_{28}O_8$ (420.46). Colorless block-like crystals (methanol), mp 179~180°C, $[\alpha]_D^{20} = -6.5^\circ$ ($c = 0.1$, MeOH). Source: KU SHI LIAN *Caesalpinia minax*. Ref: 734.

**2864 Caesalmin B**

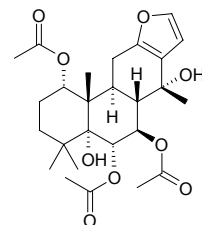
$C_{22}H_{28}O_6$ (388.46). Colorless crystals (hexane-acetone), mp 148~149°C, $[\alpha]_D^{20} = -52.5^\circ$ ($c = 0.4$, MeOH). Source: KU SHI LIAN *Caesalpinia minax*. Ref: 734.

**2865 Caesalmin C**

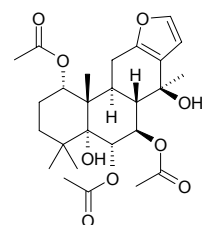
$C_{26}H_{34}O_8$ (474.56). Colorless crystals, mp 129~130°C (anhydrous), 121~122°C (monohydrate), $[\alpha]_D^{20} = +51.2^\circ$ ($c = 0.25$, MeOH). Pharm: Antiviral (*in vitro*, Para3 Virus, $IC_{50} = 8.2\mu\text{g/mL}$, $TC_{50} = 196.3\mu\text{g/mL}$, $TI = 23.9$; control Ribavirin, $IC_{50} = 2.6\mu\text{g/mL}$, $TC_{50} = 62.5\mu\text{g/mL}$, $TI = 24.0$)^[3089]. Source: CI GUO SU MU *Caesalpinia crista* (seed kernel), KU SHI LIAN *Caesalpinia minax* (seed). Ref: 3089, 4434.

**2866 Caesalmin D**

$C_{26}H_{36}O_9$ (492.57). Colorless crystals, mp 192~193°C (methanol), 178~180°C (H_2O), $[\alpha]_D^{20} = +65.9^\circ$ ($c = 0.2$, CH_3OH). Pharm: Antiviral (*in vitro*, Para3 Virus, $IC_{50} = 9.6\mu\text{g/mL}$, $TC_{50} = 182.4\mu\text{g/mL}$, $TI = 19.1$; control Ribavirin, $IC_{50} = 2.6\mu\text{g/mL}$, $TC_{50} = 62.5\mu\text{g/mL}$, $TI = 24.0$). Source: KU SHI LIAN *Caesalpinia minax* (seed). Ref: 3089.

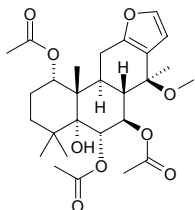
**2867 Caesalmin E**

$C_{26}H_{36}O_9$ (492.57). Colorless crystals, mp 135~136°C, $[\alpha]_D^{20} = +22.3^\circ$ ($c = 0.2$, MeOH). Pharm: Antiviral (*in vitro*, Para3 Virus, $IC_{50} = 10.3\mu\text{g/mL}$, $TC_{50} = 165\mu\text{g/mL}$, $TI = 16.0$; control Ribavirin, $IC_{50} = 2.6\mu\text{g/mL}$, $TC_{50} = 62.5\mu\text{g/mL}$, $TI = 24.0$). Source: KU SHI LIAN *Caesalpinia minax* (seed). Ref: 3089.

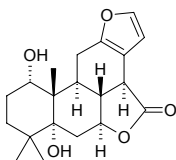


2868 Caesalmin F

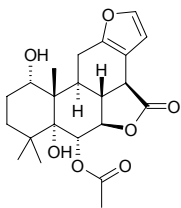
$C_{27}H_{38}O_9$ (506.6). Colorless crystals, mp 173–174°C, $[\alpha]_D^{20} = +27.6^\circ$ ($c = 0.25$, MeOH). **Pharm:** Antiviral (*in vitro*, Para3 Virus, $IC_{50} = 10.3\mu\text{g/mL}$, $TC_{50} = 165\mu\text{g/mL}$, $TI = 17.5$; control Ribavirin, $IC_{50} = 2.6\mu\text{g/mL}$, $TC_{50} = 62.5\mu\text{g/mL}$, $TI = 24.0$). **Source:** KU SHI LIAN *Caesalpinia minax* (seed). **Ref:** 3089.

**2869 Caesalmin G**

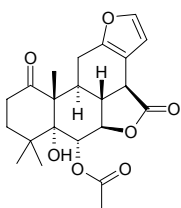
$C_{20}H_{26}O_5$ (346.43). Colorless needlelike crystals, mp 168–170°C, $[\alpha]_D^{20} = +50.5^\circ$ ($c = 0.2$, CH_3OH). **Pharm:** Antiviral (*in vitro*, Para3 Virus, $IC_{50} = 10.3\mu\text{g/mL}$, $TC_{50} = 165\mu\text{g/mL}$, $TI = 3.0$; control Ribavirin, $IC_{50} = 2.6\mu\text{g/mL}$, $TC_{50} = 62.5\mu\text{g/mL}$, $TI = 24.0$). **Source:** KU SHI LIAN *Caesalpinia minax* (seed). **Ref:** 3089.

**2870 Caesalpinin H**

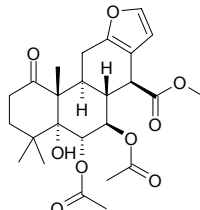
$C_{22}H_{28}O_7$ (404.46). Colorless amorphous solid, $[\alpha]_D^{25} = +67.5^\circ$ ($c = 0.057$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 5.2\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0017%dw). **Ref:** 1126.

**2871 Caesalpinin I**

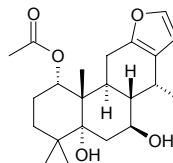
$C_{22}H_{26}O_7$ (402.45). Colorless amorphous solid, $[\alpha]_D^{22} = +59.7^\circ$ ($c = 0.053$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} > 10\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0017%dw). **Ref:** 1126.

**2872 Caesalpinin J**

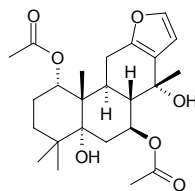
$C_{23}H_{32}O_9$ (476.53). Colorless amorphous solid, $[\alpha]_D^{22} = +42.0^\circ$ ($c = 0.088$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 1.0\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0029%dw). **Ref:** 1126.

**2873 Caesalpinin K**

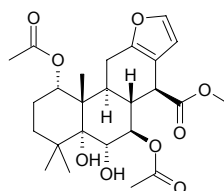
$C_{22}H_{32}O_5$ (376.50). Colorless amorphous solid, $[\alpha]_D^{22} = +51.5^\circ$ ($c = 0.151$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 0.4\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0077%dw). **Ref:** 1126.

**2874 Caesalpinin L**

$C_{24}H_{34}O_7$ (434.53). Colorless amorphous solid, $[\alpha]_D^{22} = +37.8^\circ$ ($c = 0.171$, $CHCl_3$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0025%dw). **Ref:** 1126.

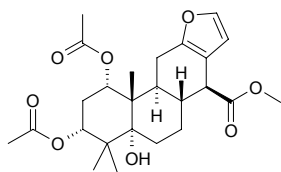
**2875 Caesalpinin M**

$C_{25}H_{34}O_9$ (478.54). Colorless amorphous solid, $[\alpha]_D^{22} = +47.1^\circ$ ($c = 0.074$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} > 10\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0021%dw). **Ref:** 1126.

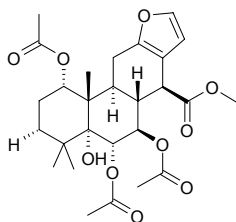


2876 Caesalpinin MF

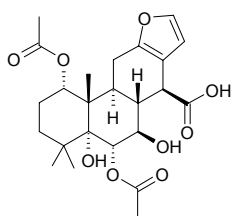
$C_{25}H_{34}O_8$ (462.54). Colorless amorphous solid, $[\alpha]_D^{25} = +22.4^\circ$ ($c = 0.15$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2877 Caesalpinin MG**

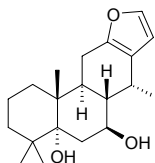
$C_{27}H_{36}O_{10}$ (520.58). Colorless amorphous solid, $[\alpha]_D^{25} = +78.4^\circ$ ($c = 0.039$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2878 Caesalpinin MH**

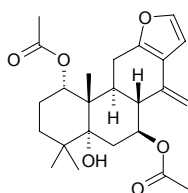
$C_{24}H_{32}O_9$ (464.52). Colorless amorphous solid, $[\alpha]_D^{25} = +11.3^\circ$ ($c = 0.3$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2879 Caesalpinin MI**

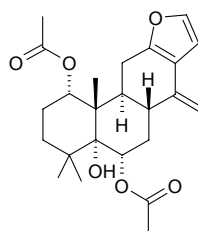
$C_{20}H_{30}O_3$ (318.46). Colorless amorphous solid, $[\alpha]_D^{25} = +214.3^\circ$ ($c = 0.2$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2880 Caesalpinin MJ**

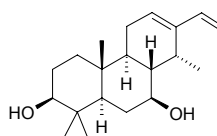
$C_{24}H_{32}O_6$ (416.52). Colorless amorphous solid, $[\alpha]_D^{25} = +164.9^\circ$ ($c = 0.25$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2881 Caesalpinin MK**

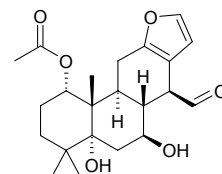
$C_{24}H_{32}O_6$ (416.52). Colorless amorphous solid, $[\alpha]_D^{25} = +99.1^\circ$ ($c = 0.1$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2882 Caesalpinin ML**

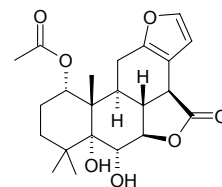
$C_{20}H_{32}O_2$ (304.48). Colorless amorphous solid, $[\alpha]_D^{25} = +114.4^\circ$ ($c = 0.1$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**2883 Caesalpinin N**

$C_{22}H_{30}O_6$ (390.48). Colorless amorphous solid, $[\alpha]_D^{22} = +28.8^\circ$ ($c = 0.195$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 0.12 \mu\text{mol/L}$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0022%dw). Ref: 1126.

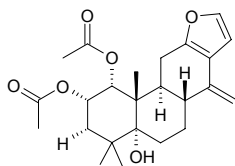
**2884 Caesalpinin O**

$C_{22}H_{28}O_7$ (404.46). Colorless amorphous solid, $[\alpha]_D^{22} = +56.8^\circ$ ($c = 0.078$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} > 10 \mu\text{mol/L}$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0006%dw). Ref: 1126.

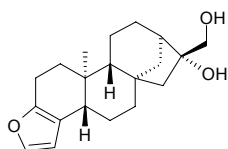


2885 Caesalpinin P

$C_{24}H_{32}O_6$ (416.52). Colorless amorphous solid, $[\alpha]_D^{22} = +11.6^\circ$ ($c = 0.074$, $CHCl_3$). **Pharm:** Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 1.7\mu\text{mol/L}$). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0010%dw). **Ref:** 1126.

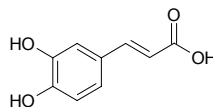
**2886 Cafestol**

[469-83-0] $C_{20}H_{28}O_3$ (316.44). **Pharm:** Anti-inflammatory. **Source:** *Coffea* sp. **Ref:** 658.

**2887 Caffeic acid**

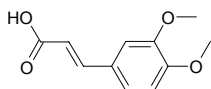
trans-3,4-Dihydroxycinnamic acid [501-16-6] $C_9H_8O_4$ (180.16). **Pharm:** Analgesic; antibacterial; antifungal; antihepatotoxin; anti-inflammatory (COX-2 inhibitor, $100\mu\text{mol/L}$, $\text{InRt} = (32\pm 16)\%$); antioxidant (inhibits free-radical induced lysis of rat red blood cells and exhibits strong and dose-dependent protection of cell membrane)^[5341]; antioxidant (rat plasma, protects against RBC lysis)^[5341]; antioxidant (Chemiluminescence Method, $IC_{50} = (0.66\pm 0.07)\mu\text{mol/L}$)^[3764]; antioxidant (DPPH scavenger, $EC_{50} = 1.4\mu\text{g/mL} = 7.8\mu\text{mol/L}$, control Ascorbic acid, $EC_{50} = 1.6\mu\text{g/mL} = 9.1\mu\text{mol/L}$)^[4154]; antioxidant (DPPH scavenger, $IC_{50} = (0.39\pm 0.01)\mu\text{mol/L}$)^[3764], $IC_{50} = (1.78\pm 0.03)\mu\text{g/mL}$ ^[5307], $IC_{50} = 25.5\mu\text{mol/L}$)^[5407]; antiulcerative; anti-venom; antiviral; hemostatic; choleric (rat, bile secretion promotor); gastric secretion promotor; leukopoietic; CNS stimulant (rat); elastase inhibitor (hmn leukocyte *in vitro*, $IC_{50} = 86\mu\text{g/mL} = 475\mu\text{mol/L}$)^[5458]; neuroprotectant (primary cultures of rat cortical cells injured by glutamate, $10.0\mu\text{mol/L}$, cell viability = $(33.1\pm 0.5)\%$, $p < 0.05$, control MK-801, $10.0\mu\text{mol/L}$, cell viability = $(83.6\pm 4.2)\%$, APV, $10.0\mu\text{mol/L}$, cell viability = $(43.6\pm 3.2)\%$, XNQX, $10.0\mu\text{mol/L}$, cell viability = $(61.6\pm 2.7)\%$)^[3967]. LD_{50} (mus, ip) = 1583mg/kg. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part), BEI XUAN SHEN *Scrophularia buergeriana* (root), BIAN XU *Polygonum aviculare*, BO HE *Mentha haplocalyx* [Syn. *Mentha canadensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], CHE SANG ZI YE *Dodonaea viscosa*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.027%)^[5508], DU SHEN *Conium maculatum*, DU ZHONG *Eucommia ulmoides*, GAO GUI CHUN HUANG JU *Anthemis nobilis*, GE YE MI HOU TAO *Actinidia rubricaulis* var. *coriacea* (ripe fruit: content = 0.17%)^[5508], HUA GOU TENG *Uncaria sinensis*, HUA NAN MI

HOU TAO *Actinidia glaucophylla* (ripe fruit: content = 0.31%)^[5508], HUANG HE MAO REN DONG *Lonicera fulvotomentosa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN HUA MI HOU TAO *Actinidia chrysantha* (ripe fruit: content = 0.08%)^[5508], JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*] (rhizome: mean content of 4 origins = 0.0346%)^[5508], JIN YIN HUA *Lonicera japonica* (flower bud: mean content = 0.0088%)^[5508], JING LI MI HOU TAO *Actinidia callosa* var. *henryi* (ripe fruit: content = 0.13%)^[5508], KU HAO *Conyza blinii*, KUAI JING CAO SU *Phlomis tuberosa*, KUO YE MI HOU TAO *Actinidia latifolia* (ripe fruit: content = 0.27%)^[5508], LU SHAN SHI WEI *Pyrrhosia sheareri*, LUO YE SONG YE JIN SI TAO *Hypericum laricifolium* (aerial parts), MAO DI HUANG *Digitalis purpurea*, MAO HUA MI HOU TAO *Actinidia eriantha* (ripe fruit: content = 0.29%)^[5508], MAO MAN TUO LUO YE *Datura innoxia*, MEI WEI MI HOU TAO *Actinidia deliciosa* (ripe fruit: content = 0.27%)^[5508], MI HOU LI *Actinidia arguta* (ripe fruit: content = 0.23%)^[5508], MI HOU TAO *Actinidia chinensis* (ripe fruit: content = 0.21%)^[5508], MU TIAN LIAO *Actinidia polygama* (ripe fruit: content = 0.22%)^[5508], MU ZEI *Equisetum hiemale*, NAN FANG TU SI ZI *Cuscuta australis*, NAN FEI GOU MA *Harpagophytum procumbens*, NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, PU GONG YING *Taraxacum mongolicum* (dried whole herb: content = 0.0345%)^[5508], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0013%dw)^[4747], SHAN ZHA *Crataegus pinnatifida*, SHE XIANG CAO *Thymus vulgaris*, SHENG DI HONG JING TIAN *Rhodiola sacra*, SHENG MA *Cimicifuga foetida*, SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*], TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (dried whole herb: content = 0.0126%)^[5508], TONG SE JI NA SHU *Cinchona cuprea*, XI ZHAN MAO REN DONG *Lonicera similis* (flower bud: mean content = 0.039%)^[5508], XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAO GUO KA FEI *Coffea arabica*, XIE CAO *Valeriana officinalis*, XING AN SHENG MA *Cimicifuga dahurica*, XUAN FU HUA *Inula britannica*, YANG SHI CAO *Achillea millefolium*, YAO YONG PU GONG YING *Taraxacum officinale* (dried whole herb: content = 0.0392%)^[5508], YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, YING SU *Papaver somniferum*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], ZI CAO *Lithospermum erythrorhizon*, occurs in many plants (widespread in plants as free and glycosides. found by Bate-Smith in 66% of investigated dicotyledonous plants and 50% of investigated monocotyledonous plants). **Ref:** 1, 2, 4, 527, 589, 602, 604, 660, 2529, 3967, 4154, 4413, 4502, 4747, 5341, 5501, 3764, 5307, 5407, 5458, 5508.

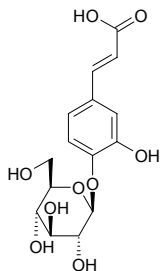


2888 Caffeic acid dimethyl ether

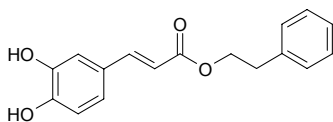
3,4-Dimethoxy-cinnamic acid [2316-26-9] C₁₁H₁₂O₄ (208.22). mp 179.5~180.5°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 6.

**2889 Caffeic acid-4-O-β-D-glucopyranoside**

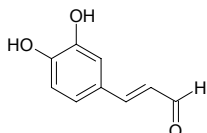
C₁₅H₁₈O₉ (342.31). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**2890 Caffeic acid phenethyl ester**

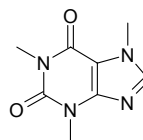
Phenethyl caffeate [104594-70-9] C₁₇H₁₆O₄ (284.31). Pharm: Anti-inflammatory (COX-1 inhibitor, IC₅₀ = 58 μmol/L, COX-2 inhibitor)^[4415]; anti-inflammatory (NF-κB pathway)^[4415]; anti-carcinogenic^[4415]; antimutagenic^[4415]; immunomodulant^[4415]; allergenic; dermatitic (causes contact dermatitis). Source: FENG JIAO *Apis mellifera ligustica*, *Populus* spp. Ref: 658, 4415.

**2891 trans-Caffeic aldehyde**

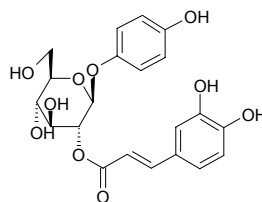
C₉H₈O₃ (164.16). Pharm: Platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μg/mL, add thrombin 0.1 u/mL, AggRt = (92.5±0.7)%, control AggRt = (92.6±0.4)%); add AA, 100 μmol/L, 100 μg/mL, AggRt = (0.0±0.0)%, 10 μg/mL, AggRt = (78.8±1.2)%, control AggRt = (87.8±0.3)%, Aspirin 50 μg/mL, AggRt = (11.7±10.1)%); add collagen 10 μg/mL, 100 μg/mL, AggRt = (51.4±1.0)%, 10 μg/mL, AggRt = (83.1±0.4)%, control AggRt = (89.3±0.5)%, Aspirin 100 μg/mL, AggRt = (81.3±0.5)%); add PAF 2 ng/mL, 100 μg/mL, AggRt = (92.0±0.2)%, control AggRt = (93.0±0.6)%). Source: TAI WAN HU JIAO *Piper taiwanense* (stem). Ref: 4938.

**2892 Caffeine**

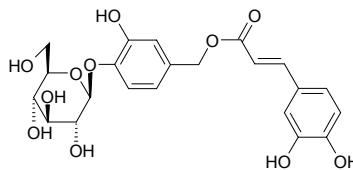
Coffeine; 1,3,7-Trimethyl-2,6-dioxapurine; Methyltheobromine [58-08-2] C₈H₁₀N₄O₂ (194.19). mp 235~238°C; soluble in acetic ester, chloroform, acetone, ethanol, water, insoluble in petroleum ether.^[5507] Pharm: Antineoplastic (mus pulmonary adenoma caused by nitroso compound, lung cancer, essential or caused by urethan); antiviral; CNS stimulant; inhibits cancer cell invasion inactive (MM1 cells, *in vitro*, 10 μg/mL)^[4329]. Source: BA LA GUI *Ilex paraguariensis*, BA XI XIANG WU HUAN ZI *Paullinia cupana*, CHA SHU GEN *Camellia sinensis* [Syn. *Thea sinensis*], CHA YE *Camellia sinensis* [Syn. *Thea sinensis*] (content = 1%~5%^[5507]), DA GUO KA FEI *Coffea liberica*, GAO KA FEI *Coffea excelsa*, GOU GU SHU PI *Ilex cornuta*, HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, SU DAN KE LE GUO *Cola acuminata*, WU TONG ZI *Firmiana simplex*, XIAO GUO KA FEI *Coffea arabica*. Ref: 1, 4, 6, 660, 4329, 5507.

**2893 2-O-Caffeoyl arbutin**

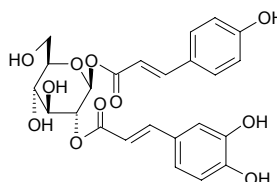
[14477-53-5] C₂₁H₂₂O₁₀ (434.40). mp 165°C. Source: YUE JU YE *Vaccinium vitis-idaea*. Ref: 6.

**2894 Caffeoyl calleryanin**

C₂₂H₂₄O₁₁ (464.43). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

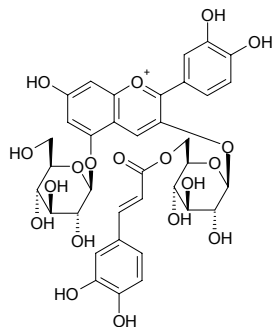
**2895 2-O-(E)-Caffeoyl-1-O-p-(E)-coumaroyl-β-D-glucopyranose**

C₂₄H₂₄O₁₁ (488.45). Yellow amorphous powder, [α]_D¹⁵ = -268.6° (c = 0.8, MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0032%). Ref: 4101.

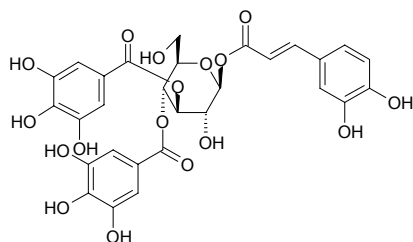


2896 Caffeoylcyanin

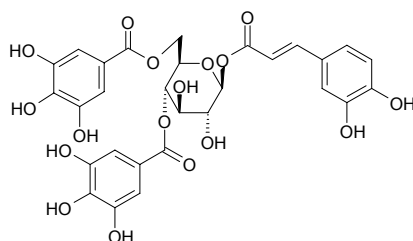
$C_{36}H_{37}O_{19}^+$ (773.68). Source: HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 660.

**2897 1-O-(E)-Caffeoyl-3,4-di-O-galloyl-β-D-glucopyranose**

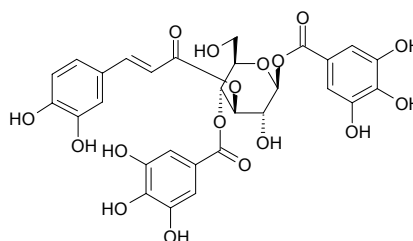
$C_{29}H_{26}O_{17}$ (646.52). Yellow amorphous powder, $[\alpha]_D^{15} = -74.9^\circ$ ($c = 0.4$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0035%). Ref: 4101.

**2898 1-O-(E)-Caffeoyl-4,6-di-O-galloyl-β-D-glucopyranose**

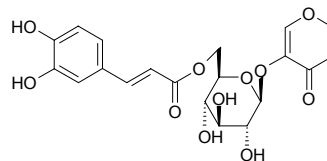
$C_{29}H_{26}O_{17}$ (646.52). Yellow amorphous powder, $[\alpha]_D^{15} = -177.8^\circ$ ($c = 0.2$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0421%). Ref: 4101.

**2899 3-O-(E)-Caffeoyl-1,4-di-O-galloyl-β-D-glucopyranose**

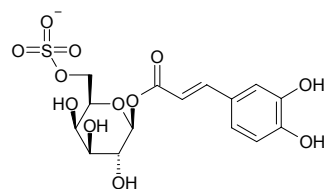
$C_{29}H_{26}O_{17}$ (646.52). Yellow amorphous powder, $[\alpha]_D^{15} = -123.7^\circ$ ($c = 0.7$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0294%). Ref: 4101.

**2900 6'-O-Caffeoylerigeroside**

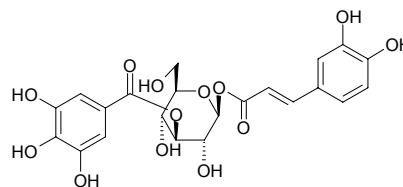
$C_{20}H_{20}O_{11}$ (436.38). Yellowish amorphous, mp 154–156°C. Source: DUO SHE FEI PENG *Erigeron multiradiatus*. Ref: 415.

**2901 1-Caffeoyl galactose-6-sulphate**

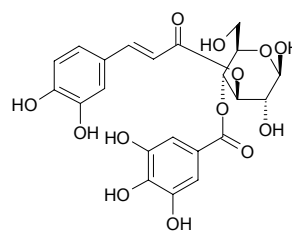
$C_{15}H_{17}O_{12}S^-$ (421.36). Source: ZHU ZONG CAO *Adiantum capillus-veneris*. Ref: 660.

**2902 1-O-(E)-Caffeoyl-3-O-galloyl-β-D-glucopyranose**

$C_{22}H_{22}O_{13}$ (494.41). Yellow amorphous powder, $[\alpha]_D^{15} = -48.9^\circ$ ($c = 0.8$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0304%). Ref: 4101.

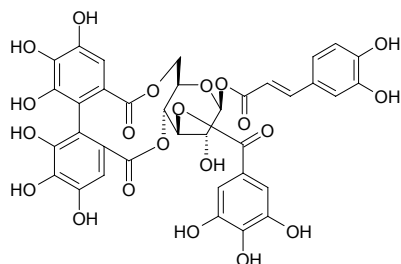
**2903 3-O-(E)-Caffeoyl-4-O-galloyl-β-D-glucopyranose**

$C_{22}H_{22}O_{13}$ (494.41). Yellow amorphous powder, $[\alpha]_D^{15} = -144.2^\circ$ ($c = 0.7$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0039%). Ref: 4101.

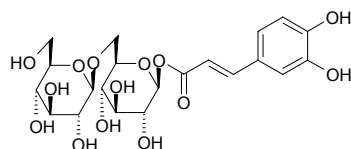


2904 1-O-(E)-Caffeoyl-3-O-galloyl-4,6-(S)-HHDP-β-D-glucopyranose

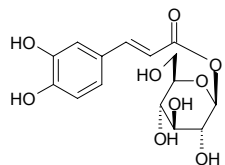
C₃₆H₂₈O₂₁ (796.61). Yellow amorphous powder, $[\alpha]_D^{15} = -5.5^\circ$ ($c = 0.6$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.1245%). Ref: 4101.

**2905 1-O-(E)-Caffeoyl-β-gentiobiose**

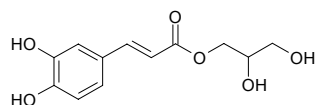
C₂₁H₂₈O₁₄ (504.45). Yellow amorphous powder, $[\alpha]_D^{15} = -26.0^\circ$ ($c = 0.3$, MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0012%)^[4101], OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 4101, 5289.

**2906 1-Caffeoylglucose**

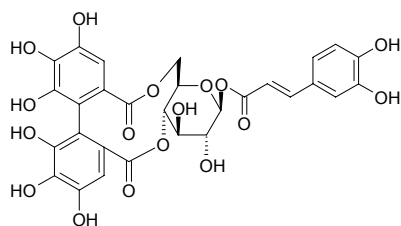
[143640-08-0] C₁₅H₁₈O₉ (342.31). mp > 300°C. Source: NAN FANG TU SI *Zi Cuscuta australis*, KUAI JING CAO SU *Phlomis tuberosa*. Ref: 589, 660.

**2907 1-O-Caffeoylglycerol**

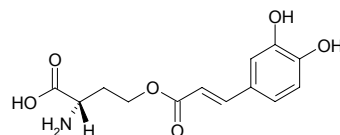
C₁₂H₁₄O₆ (254.24). Colorless acicular crystals, mp 144~146°C. Source: JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbiferum*]. Ref: 663.

**2908 1-O-(E)-Caffeoyl-4,6-(S)-HHDP-β-D-glucopyranose**

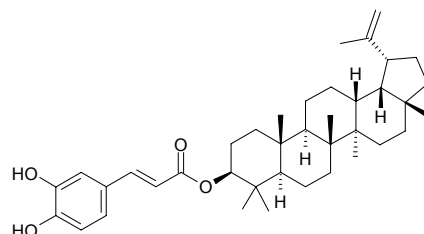
C₂₉H₂₄O₁₇ (644.50). Yellow amorphous powder, $[\alpha]_D^{15} = -19.0^\circ$ ($c = 0.3$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.2231%). Ref: 4101.

**2909 L-O-Caffeoylhomoserine**

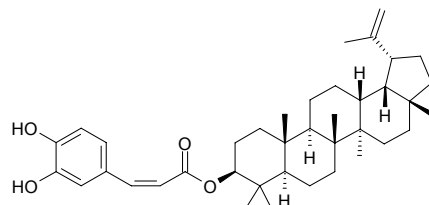
C₁₃H₁₅NO₆ (281.27). Colorless prisms, mp 224.0~225.0°C, $[\alpha]_D^{20} = -38.24^\circ$ ($c = 0.09$, 80%MeOH). Pharm: Antioxidant (Chemiluminescence Method, IC₅₀ = (0.45±0.05)μmol/L, control Rutin, IC₅₀ = (0.11±0.01)μmol/L, Quercetin, IC₅₀ = (0.53±0.01)μmol/L, Caffeic acid, IC₅₀ = (0.66±0.07)μmol/L, Gallic acid, IC₅₀ = (0.74±0.06)μmol/L); Antioxidant (DPPH scavenger, IC₅₀ = (0.30±0.00)μmol/L, Rutin, IC₅₀ = (0.15±0.00)μmol/L, Quercetin, IC₅₀ = (0.26±0.02)μmol/L, Caffeic acid, IC₅₀ = (0.39±0.01)μmol/L, Gallic acid, IC₅₀ = (0.36±0.02)μmol/L). Source: XIAO YE GUAN ZHONG *Matteuccia struthiopteris*. Ref: 3764.

**2910 3-(E)-Caffeoyllupeol**

Lupeol caffeate C₃₉H₅₆O₄ (588.88). Pharm: Antimalarial inactive (*Plasmodium falciparum*, K1, multidrug resistant strain). Source: XIAO HUA MU LAN GUO *Bruguiera parviflora*. Ref: 2532.

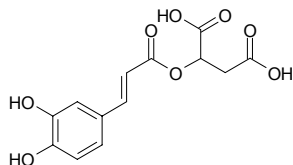
**2911 3-(Z)-Caffeoyllupeol**

C₃₉H₅₆O₄ (588.88). Yellow amorphous powder, $[\alpha]_D^{25} = +10^\circ$ ($c = 0.014$, CHCl₃). Pharm: Antimalarial (*Plasmodium falciparum*, K1, multidrug resistant strain, EC₅₀ = 8.6μg/mL, control Artemisinin, EC₅₀ = 1~3ng/mL). Source: XIAO HUA MU LAN GUO *Bruguiera parviflora*. Ref: 2532.

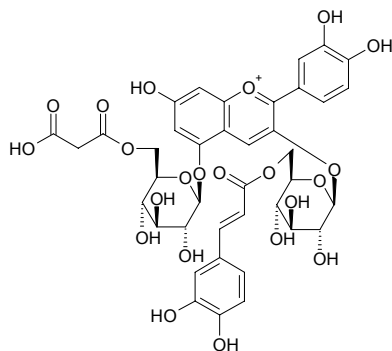


2912 Caffeoyl malic acid

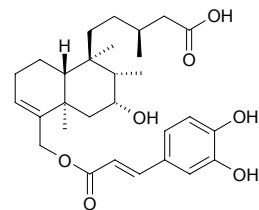
$C_{13}H_{12}O_8$ (296.24). **Pharm:** Antioxidant (*in vitro* inhibits LDL peroxidation, Cu^{2+} -induced and AAPH-induced)^[5370]; inhibits minimally oxidized LDL-induced cellular toxicity (cultured bovine aortic endothelial cells, BAEC)^[5370]. **Source:** OU XIA ZHI CAO *Marrubium vulgare* (aerial parts), YI ZHU QIAN MA *Urtica dioica*. **Ref:** 660, 5370.

**2913 Caffeoyl malonyl cyanin**

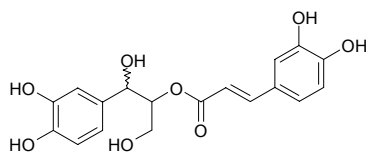
$C_{39}H_{39}O_{22}^+$ (859.73). **Source:** HUI HUI SU GENG *Perilla frutescens* var. *crispa*. **Ref:** 660.

**2914 ent-18-(E)-Caffeoyloxy-7β-hydroxy-3-cleroden-15-oic acid**

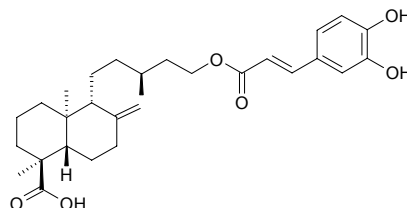
$C_{29}H_{40}O_7$ (500.64). Colorless oil, $[\alpha]_D^{20} = -29^\circ$ ($c = 0.165$, MeOH). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (7.3 \pm 0.8) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu\text{g/mL}$). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**2915 2-Caffeoyloxy-3-hydroxy-3-(3,4-dihydroxyphenyl)propyl alcohol**

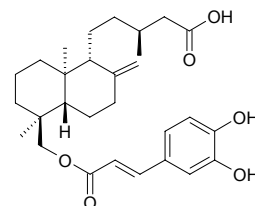
$C_{18}H_{18}O_8$ (362.34). colorless amorphous powder, $[\alpha]_D^{25} = +35^\circ$ ($c = 1.0$, MeOH). **Source:** YUAN BAO CAO *Hypericum sampsonii* (whole herb). **Ref:** 4055.

**2916 ent-15-(E)-Caffeoyloxy-8(17)-labden-18-oic acid**

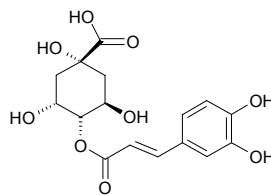
$C_{29}H_{40}O_6$ (484.64). Colorless oil, $[\alpha]_D^{20} = -21^\circ$ ($c = 0.21$, MeOH). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (16.0 \pm 0.87) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu\text{g/mL}$). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**2917 ent-18-(E)-Caffeoyloxy-8(17)-labden-15-oic acid**

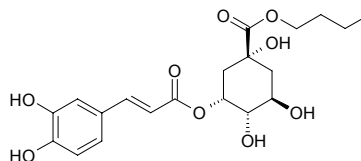
$C_{29}H_{40}O_6$ (484.64). Colorless oil, $[\alpha]_D^{20} = -8.9^\circ$ ($c = 0.373$, MeOH). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (21.0 \pm 1.9) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu\text{g/mL}$). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**2918 4-O-Caffeoylquinic acid**

[905-99-7] $C_{16}H_{18}O_9$ (354.32). **Source:** GUANG YE SHUI SU *Stachys palustris*, XIANG RI KUI YE *Helianthus annuus*, XIANG RI KUI JING SUI *Helianthus annuus*, KUAI JING CAO SU *Phlomis tuberosa*. **Ref:** 6.

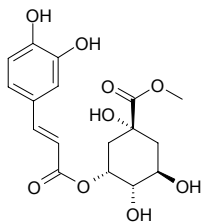
**2919 5-O-Caffeoyl quinic acid butyl ester**

$C_{20}H_{26}O_9$ (410.42). Yellowish amorphous powder mp 121~122°C. **Source:** DENG ZHAN XI XIN *Erigeron breviscapus*. **Ref:** 875.

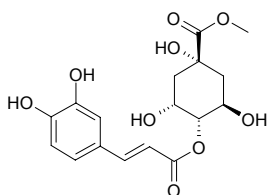


2920 3-O-Caffeoylquinic acid methyl ester

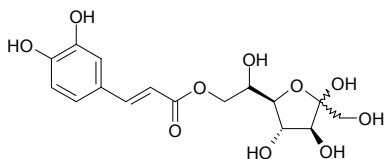
$C_{17}H_{20}O_9$ (368.34). **Pharm:** Aldose reductase inhibitor ($IC_{50} = 13\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4530]; antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 16.8\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$)^[5009]; antileishmanial (*Leishmania donovani*, $IC_{50} = 8.8\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$)^[5009]; antimalarial (*Plasmodium falciparum*, $IC_{50} = 42.8\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} = 84.1\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$)^[5009]. **Source:** SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), ZONG KUI CAO SU *Phlomis brunneogaleata*. **Ref:** 4530, 5009.

**2921 4-O-Caffeoylquinic acid methyl ester**

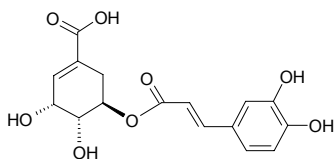
$C_{17}H_{20}O_9$ (368.34). **Pharm:** Aldose reductase inhibitor ($IC_{50} = 16\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 4530.

**2922 7-Caffeoylsedoheptulose**

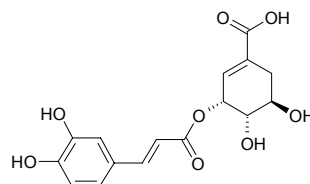
$C_{16}H_{20}O_{10}$ (372.33). White powder, $[\alpha]_D^{25} = +13.9^\circ$ ($c = 0.42$, MeOH). **Source:** DUO HUA LAN GUO SHU *Nyssa sylvatica* (wood). **Ref:** 3939.

**2923 3-O-Caffeoylshikimic acid**

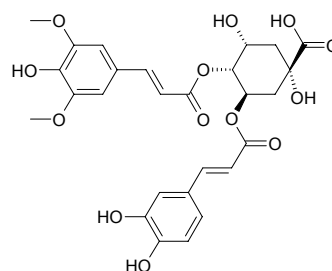
[6082-44-6] $C_{16}H_{16}O_8$ (336.30). mp 224–225°C (dec). **Source:** WU LOU ZI *Phoenix dactylifera*. **Ref:** 6.

**2924 5-O-Caffeoylshikimic acid**

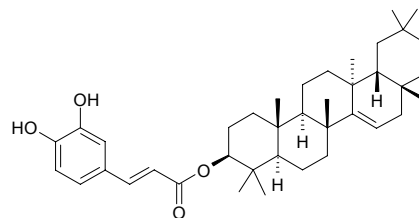
$C_{16}H_{16}O_8$ (336.3). **Pharm:** Antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 21.4\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$)^[5009]; antileishmanial (*Leishmania donovani*, $IC_{50} = 7.3\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$)^[5009]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$)^[5009]. **Source:** TU FU LING *Smilax glabra*, ZONG KUI CAO SU *Phlomis brunneogaleata*. **Ref:** 714, 5009.

**2925 3-O-Caffeoyl-4-O-sinapoylquinic acid**

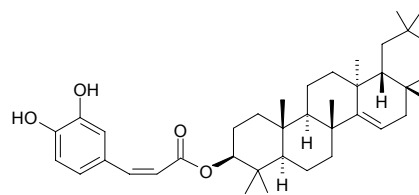
[110241-35-5] $C_{27}H_{28}O_{13}$ (560.52). **Source:** ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 2, 626.

**2926 3β-(E)-Caffeoyltaraxerol**

$C_{39}H_{56}O_4$ (588.88). White solid, mp 246–248°C, $[\alpha]_D^{27} = +28.84^\circ$ ($c = 0.052$, CHCl_3). **Source:** HONG QIE DONG GUO *Rhizophora mucronata* (fruit). **Ref:** 4058.

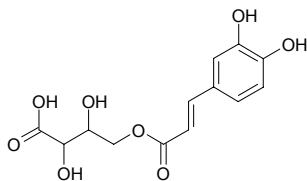
**2927 3β-(Z)-Caffeoyltaraxerol**

$C_{39}H_{56}O_4$ (588.88). White solid, mp 246°C, $[\alpha]_D^{27} = -100^\circ$ ($c = 0.04$, CHCl_3). **Source:** HONG QIE DONG GUO *Rhizophora mucronata* (fruit). **Ref:** 4058.

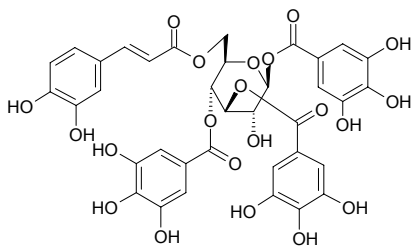


2928 (-)-4-(E)-Caffeoyl-L-threonic acid

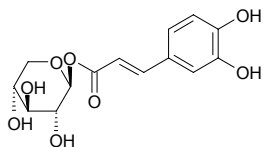
$C_{13}H_{14}O_8$ (298.25). Bright yellow amorphous powder, mp 195~198°C, $[\alpha]_D^{20} = -17^\circ$ ($c = 0.05$, MeOH), $[\alpha]_D^{20} = -23^\circ$ ($c = 1.27$, H₂O). Source: DENG TAI SHU *Cornus controversa* [Syn. *Bothrocaryum controversum*] (leaf). Ref: 3918.

**2929 6-O-(E)-Caffeoyl-1,3,4-tri-O-galloyl-β-D-glucopyranose**

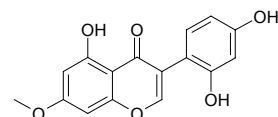
$C_{36}H_{30}O_{21}$ (798.63). Yellow amorphous powder, $[\alpha]_D^{15} = +14.9^\circ$ ($c = 0.6$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0283%). Ref: 4101.

**2930 1-O-Caffeoyl-β-xylose**

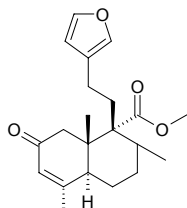
$C_{14}H_{16}O_8$ (312.28). Source: SHEN SHENG XUAN GOU ZI *Rubus sanctus*. Ref: 3421.

**2931 Cajinin**

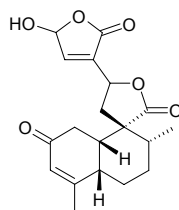
$C_{16}H_{12}O_6$ (300.27). Colorless needles, mp 254~256°C. Source: MI HUA DOU *Spatholobus suberectus*. Ref: 2205.

**2932 t-Cajucarin B**

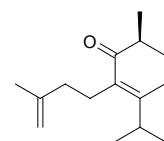
$C_{21}H_{28}O_4$ (344.45). Source: KA ZHU BA DOU *Croton cajucara*. Ref: 4552.

**2933 Cajucarinolide**

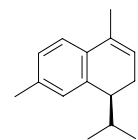
$C_{19}H_{22}O_6$ (346.38). Source: ZAN BI XI BA DOU *Croton zambesicus*. Ref: 4552.

**2934 Calacone**

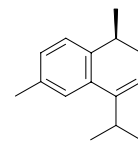
$C_{15}H_{24}O$ (220.36). Source: BAI CHANG *Acorus calamus*. Ref: 6.

**2935 α-Calacorene**

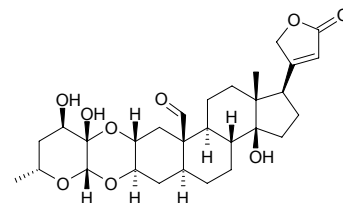
[21391-99-1] $C_{15}H_{20}$ (200.33). Source: DU SONG SHI *Juniperus rigida*, ZHANG MU *Cinnamomum camphora*. Ref: 6.

**2936 γ-Calacorene**

[24048-45-1] $C_{15}H_{20}$ (200.33). Source: DU SONG SHI *Juniperus rigida*, PI JIU HUA *Humulus lupulus*. Ref: 6.

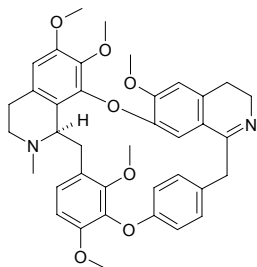
**2937 Calactin**

Calotropin [20304-47-6] $C_{29}H_{40}O_9$ (532.64). mp 221°C (dec). Pharm: Toxin (vertebrate); LD₅₀ (cat, iv) = 0.11 mg/kg, (mus, ip) = 9.8 mg/kg. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*. Ref: 1, 5, 6, 658.

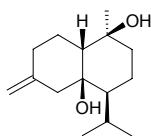


2938 Calafatimine

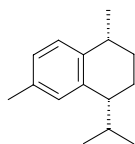
[77793-42-1] C₃₈H₄₀N₂O₇ (636.75). Pharm: Antineoplastic (weak). Source: HUANG YANG XIAO BO *Berberis buxifolia*. Ref: 658.

**2939 Calamendiol**

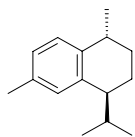
[30167-28-3] C₁₅H₂₆O₂ (238.37). mp 168°C. Source: BAI CHANG *Acorus calamus*. Ref: 6.

**2940 cis-Calamenene**

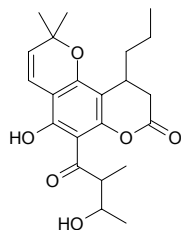
[22339-23-7] C₁₅H₂₂ (202.34). Source: HUO XIANG *Agastache rugosus*, ZHANG MU *Cinnamomum camphora*. Ref: 2, 6.

**2941 trans-Calamenene**

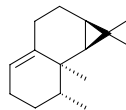
C₁₅H₂₂ (202.34). Source: HUO XIANG *Agastache rugosus*, ZHANG MU *Cinnamomum camphora*. Ref: 2, 6.

**2942 Calanolide E₂**

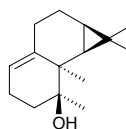
C₂₂H₂₈O₆ (388.46). Pale yellow oil, [α]_D²⁰ = -77.6° (c = 0.248, CHCl₃). Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0053%dw). Ref: 4767.

**2943 Calarene**

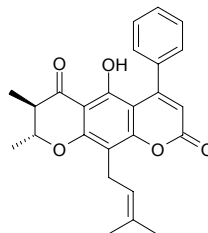
β-Guriunene; 1(10)-Aristolene [17334-55-3] C₁₅H₂₄ (204.36). bp 120~123°C/13mmHg. Source: GAN SONG *Nardostachys chinensis*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HUO XIANG *Agastache rugosus*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*. Ref: 2, 6, 660.

**2944 Calarenol**

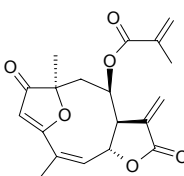
C₁₅H₂₄O (220.36). bp 120~125°C/0.1mmHg. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**2945 Calaustralin**

C₂₅H₂₄O₅ (404.47). White crystals (*n*-hexane-EtOAc), mp 193~195°C. Pharm: Cytotoxic inactive (KB, IC₅₀ = 42.0μg/mL); antibacterial (*Staphylococcus aureus*, 20μg/disk, DIZ = 11.0mm; *Escherichia coli*, 20μg/disk, inactive; *Vibrio anguillarum*, 20μg/disk, inactive); antifungal inactive (*Candida tropicalis*, 20μg/disk). Source: HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). Ref: 3866.

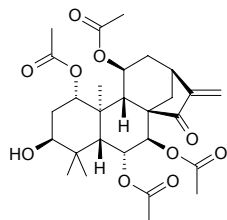
**2946 Calaxin**

[30412-86-3] C₁₉H₂₀O₆ (344.37). Pharm: Antineoplastic; cytotoxic. Source: YUAN MAO XIANG RI KUI *Helianthus ciliaris*, *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 658, 5090.



2947 Calcicolin A

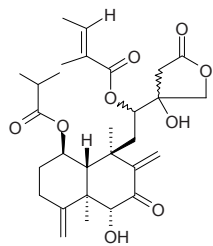
$C_{28}H_{38}O_{10}$ (534.61). mp 265~268°C, $[\alpha]_D^{23} = -59.3^\circ$ ($c = 0.53$, MeOH). Source: JIN WU MAO HUI YAN XIANG CHA CAI *Isodon calcicola* Ref: 650, 4067.

**2948 Calcicolin A†**

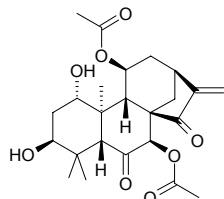
rel-10 β H-*trans*-12 ζ -(2-methylbut-2(*E*)-enoyl)-1 β -(isobutanoyl)-6 α ,13 ζ -dihydroxycyclorodan-4(20),8(18)-dien-7,15-dione-15,16-oxide $C_{29}H_{40}O_9$ (532.64).

Amorphous solid, $[\alpha]_D^{24} = +4.3^\circ$ ($c = 0.01$, MeOH). Pharm: Cytotoxic (D.mel-II, $IC_{50} = (2.06 \pm 0.20) \mu\text{g/mL}$; HepG2, $IC_{50} = (9.04 \pm 0.13) \mu\text{g/mL}$).

Source: *Glossocarya calcicola* (leaf). Ref: 5340.

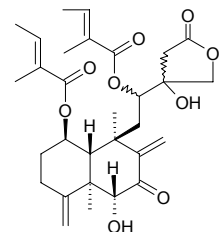
**2949 Calcicolin B**

$C_{24}H_{32}O_8$ (448.52). mp 114~116°C, $[\alpha]_D^{20.8} = -34.36^\circ$ ($c = 0.29$, MeOH). Source: JIN WU MAO HUI YAN XIANG CHA CAI *Isodon calcicola*, XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.00058%_{dw})^[4640]. Ref: 4067, 4640.

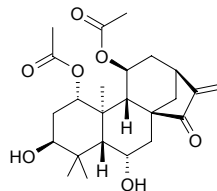
**2950 Calcicolin B†**

rel-10 β H-*trans*-1 β ,12 ζ -Di(2-methylbut-2(*E*)-enoyl)-6 α ,13 ζ -dihydroxycyclorodan-4(20),8(18)-dien-7,15-dione-15,16-oxide $C_{30}H_{40}O_9$ (544.65). Amorphous solid, $[\alpha]_D^{24} =$

-8.98° ($c = 0.01$, MeOH). Pharm: Cytotoxic (D.mel-II, $IC_{50} = (3.09 \pm 0.24) \mu\text{g/mL}$; HepG2, $IC_{50} = (16.16 \pm 0.27) \mu\text{g/mL}$). Source: *Glossocarya calcicola* (leaf). Ref: 5340.

**2951 Calcicolin C**

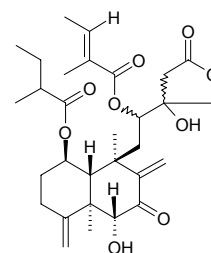
$C_{24}H_{34}O_7$ (434.53). mp 248.5~250.0°C, $[\alpha]_D^{21.9} = -39.94^\circ$ ($c = 0.31$, MeOH). Source: JIN WU MAO HUI YAN XIANG CHA CAI *Isodon calcicola* Ref: 4067.

**2952 Calcicolin C†**

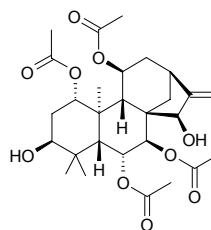
rel-10 β H-*trans*-12 ζ -(2-Methylbut-2(*E*)-enoyl)-1 β -(2-methylbutanoyl)-6 α ,13 ζ -dihydroxycyclorodan-4(20),8(18)-dien-7,15-dione-15,16-oxide $C_{30}H_{42}O_9$

(546.66). Amorphous solid, $[\alpha]_D^{24} = +2.31^\circ$ ($c = 0.01$, MeOH). Pharm: Cytotoxic (D.mel-II, $IC_{50} = (2.10 \pm 0.26) \mu\text{g/mL}$; HepG2, $IC_{50} =$

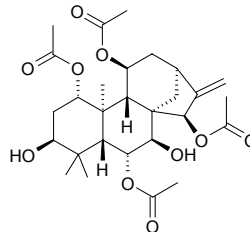
$(8.30 \pm 0.12) \mu\text{g/mL}$). *Glossocarya calcicola* (leaf). Ref: 5340.

**2953 Calcicolin D**

$C_{28}H_{40}O_{10}$ (536.63). mp 196~197.5°C, $[\alpha]_D^{20.6} = -43.62^\circ$ ($c = 0.30$, MeOH). Source: JIN WU MAO HUI YAN XIANG CHA CAI *Isodon calcicola* Ref: 4067.

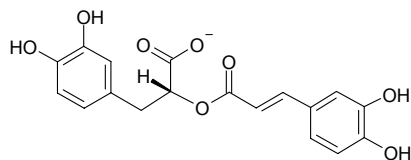
**2954 Calcicolin E**

$C_{28}H_{40}O_{10}$ (536.63). mp 117~119.5°C, $[\alpha]_D^{22.6} = -46.25^\circ$ ($c = 0.40$, MeOH). Source: JIN WU MAO HUI YAN XIANG CHA CAI *Isodon calcicola* Ref: 4067.



2955 Calcium rosmarinate

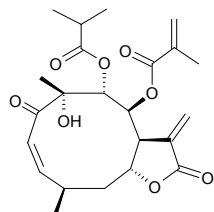
$C_{18}H_{15}O_8^-$ (359.32). Source: YOU CI PO BU MU *Cordia spinescens*. Ref: 2268.

**2956 Calealactone A**

$C_{23}H_{30}O_8$ (434.49). Colorless needles, mp 98~100°C, $[\alpha]_D^{20} = +195.4^\circ$ ($c =$

0.001, $CHCl_3$). Pharm: Cytotoxic (U937, $IC_{50} = 3.5\mu mol/L$; control

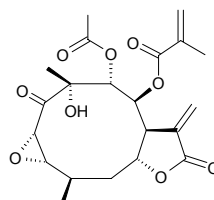
Parthenolide, $IC_{50} = 1.9\mu mol/L$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

**2957 Calealactone B**

$C_{21}H_{26}O_9$ (422.44). White powder, $[\alpha]_D^{20} = +184.2^\circ$ ($c = 0.001$, $CHCl_3$).

Pharm: Cytotoxic (U937, $IC_{50} > 5\mu mol/L$; control Parthenolide, $IC_{50} =$

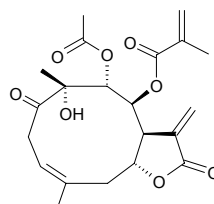
$1.9\mu mol/L$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

**2958 Calealactone C**

$C_{21}H_{26}O_8$ (406.44). Colorless needles, mp 170~172°C, $[\alpha]_D^{20} = +92.1^\circ$ ($c =$

0.001, $CHCl_3$). Pharm: Cytotoxic (U937, $IC_{50} = 1.0\mu mol/L$; control

Parthenolide, $IC_{50} = 1.9\mu mol/L$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

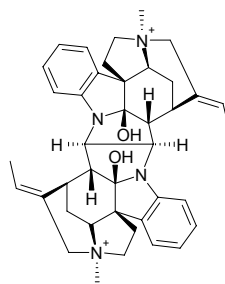
**2959 Calebassine**

[7257-29-6] $C_{40}H_{48}N_4O_2^{2+}$ (616.85). Pharm: Neuromuscular blocker (curare

component in cucurbit); toxin. Source: SAN YE MAI MA QIAN *Strychnos*

trinervis, MI SHI MA QIAN ZI *Strychnos mitschlichii*, FEN CHA MA

QIAN ZI *Strychnos divaricans*. Ref: 658.

**2960 Calebin A**

4''-(3'''-Methoxy-4'''-hydroxyphenyl)-2''-oxo-3''-enebutanyl 3-(3'-methoxy-4'-

hydroxyphenyl)propenoate $C_{21}H_{20}O_7$ (384.39). Light yellow powder, mp

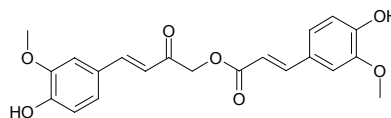
138~139°C. Pharm: Neuroprotective (*in vitro* protects PC12 cells from

β -Amyloid insult: anti- $\beta A(25-35)$, $ED_{50} = (1.0\pm 0.3)\mu g/mL$; anti- $\beta A(1-41)$,

$ED_{50} = (2.0\pm 0.4)\mu g/mL$; control Congo red: anti- $\beta A(25-35)$, $ED_{50} =$

$(37.5\pm 5.4)\mu g/mL$; anti- $\beta A(1-41)$, $ED_{50} = (39.2\pm 5.2)\mu g/mL$). Source: JIANG

HUANG *Curcuma longa* (turmeric powder: yield = 0.0010%dw). Ref: 4643.

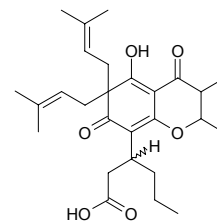
**2961 Caledonic acid**

$C_{27}H_{38}O_6$ (458.60). Amorphous solid, $[\alpha]_D^{25} = -15.0^\circ$ ($c = 0.13$, $CHCl_3$).

Pharm: Antifungal (*Aspergillus fumigatus*, $MIC_{80} = 16\mu g/mL$, control

Amphotericin B, $MIC_{80} = 8\mu g/mL$). Source: SU GE LAN HU TONG

Calophyllum caledonicum (seed). Ref: 5489.

**2962 Caledonixanthone E**

$C_{19}H_{16}O_6$ (340.34). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26,

$MIC_{80} = 8\mu g/mL$, control Amphotericin B, $MIC_{80} = 8\mu g/mL$; *Aspergillus*

flavus IHEM37.19, $MIC_{80} = 16\mu g/mL$, Amphotericin B, $MIC_{80} = 8\mu g/mL$;

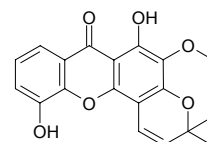
Aspergillus niger IHEM2951, $MIC_{80} > 250\mu g/mL$, Amphotericin B, $MIC_{80} =$

$16\mu g/mL$; *Aspergillus terreus* 5029.2000, $MIC_{80} > 250\mu g/mL$; Amphotericin

B, $MIC_{80} = 16\mu g/mL$; *Candida albicans* ATCC663.90, $MIC_{80} > 250\mu g/mL$;

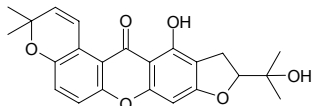
Amphotericin B, $MIC_{80} = 1\mu g/mL$). Source: SU GE LAN HU TONG

Calophyllum caledonicum (stem cortex). Ref: 4995.



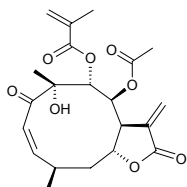
2963 Caledonixanthone M

$C_{23}H_{22}O_6$ (394.43). Amorphous solid, $[\alpha]_D^{25} = -33.3^\circ$ ($c = 0.06$, $CHCl_3$). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (seed). Ref: 5489.

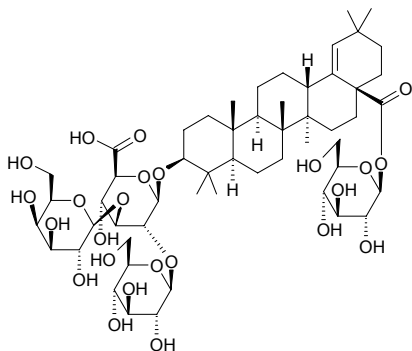
**2964 Calein D**

$C_{21}H_{26}O_8$ (406.44). White powder, $[\alpha]_D^{20} = +192.2^\circ$ ($c = 0.001$, $CHCl_3$).

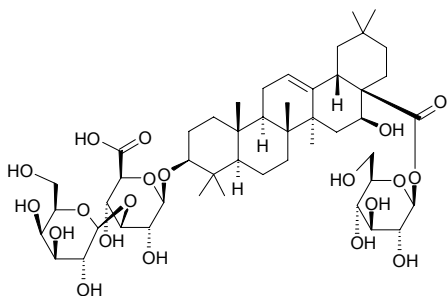
Pharm: Cytotoxic (U937, $IC_{50} > 5 \mu\text{mol/L}$; control Parthenolide, $IC_{50} = 1.9 \mu\text{mol/L}$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

**2965 Calendasaponin A**

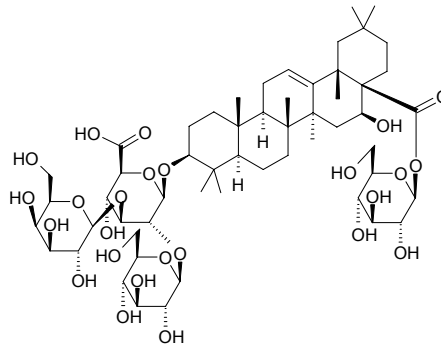
28-*O*- β -*D*-Glucopyranosyl moronic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{54}H_{86}O_{24}$ (1119.27). Colorless fine crystals (MeOH-H₂O), mp 226.5~228.6°C, $[\alpha]_D^{27} = +8.6^\circ$ ($c = 0.1$, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

**2966 Calendasaponin B**

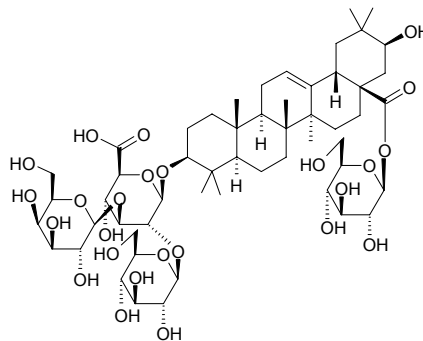
28-*O*- β -*D*-Glucopyranosyl cochalic acid 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosiduronic acid $C_{48}H_{76}O_{20}$ (973.13). Colorless fine crystals (MeOH-H₂O), mp 245.6~247.0°C, $[\alpha]_D^{27} = +6.4^\circ$ ($c = 0.1$, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

**2967 Calendasaponin C**

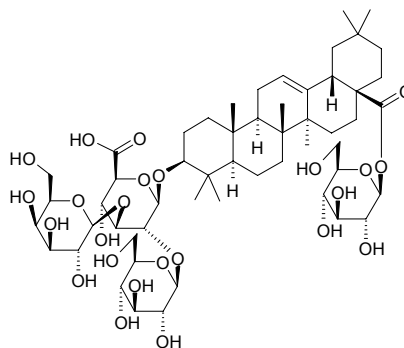
28-*O*- β -*D*-Glucopyranosyl cochalic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{55}H_{88}O_{25}$ (1149.30). Colorless fine crystals (MeOH-H₂O), mp 228.5~230.2°C, $[\alpha]_D^{27} = +8.1^\circ$ ($c = 1.0$, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

**2968 Calendasaponin D**

28-*O*- β -*D*-Glucopyranosyl machaerinic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{54}H_{86}O_{25}$ (1135.27). Colorless fine crystals (MeOH-H₂O), mp 226.9~229.0°C, $[\alpha]_D^{27} = +33.0^\circ$ ($c = 1.1$, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

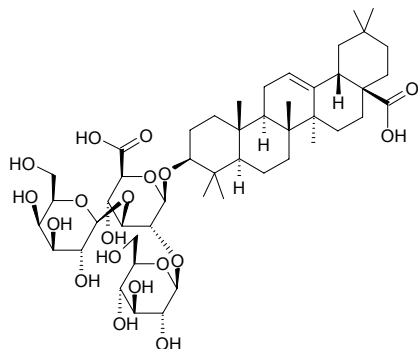
**2969 Calendula officinalis Glycoside A**

$C_{54}H_{86}O_{24}$ (1119.27). Pharm: Hypoglycemic (inhibits the increase in serum glucose levels in glucose-loaded rats); gastroprotective (mouse, inhibits gastric emptying; rats, inhibits ethanol- and indomethacin-induced gastric lesions). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

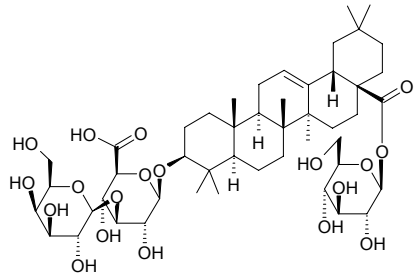


2970 *Calendula officinalis* Glycoside B

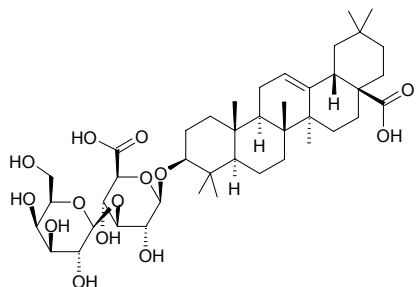
$C_{48}H_{76}O_{19}$ (957.13). **Pharm:** Hypoglycemic (inhibits the increase in serum glucose levels in glucose-loaded rats); gastroprotective (mouse, inhibits gastric emptying; rats, inhibits ethanol- and indomethacin-induced gastric lesions). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

**2971 *Calendula officinalis* Glycoside C**

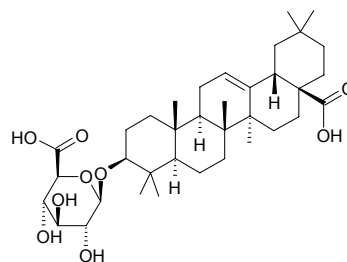
$C_{48}H_{76}O_{19}$ (957.13). **Pharm:** Hypoglycemic (inhibits the increase in serum glucose levels in glucose-loaded rats); gastroprotective (mouse, inhibits gastric emptying; rats, inhibits ethanol- and indomethacin-induced gastric lesions). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

**2972 *Calendula officinalis* Glycoside D**

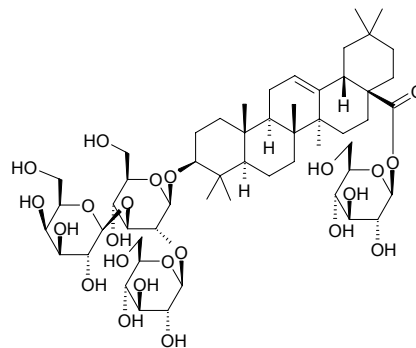
$C_{42}H_{66}O_{14}$ (794.99). **Pharm:** Hypoglycemic (inhibits the increase in serum glucose levels in glucose-loaded rats); gastroprotective (mouse, inhibits gastric emptying; rats, inhibits ethanol- and indomethacin-induced gastric lesions). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

**2973 *Calendula officinalis* Glycoside F**

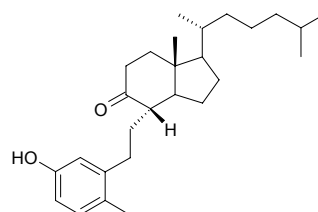
Hollow alternanthera saponin B; Oleanolic acid 3-O-glucuronide [26020-14-4] $C_{36}H_{56}O_9$ (632.84). White amorphous powder, mp 226~228°C. **Pharm:** Hypoglycemic (inhibits the increase in serum glucose levels in glucose-loaded rats)^[3551]; gastroprotective (mouse, inhibits gastric emptying; rats, inhibits ethanol- and indomethacin-induced gastric lesions)^[3551]; molluscicide (*Oncomelania*); molluscicide (*Biomphalaria glabrata*, LD₁₀₀ = 2mg/L). **Source:** HEI REN DONG *Lonicera nigra*, HU CI CONG MU *Aralia armata*, JIN ZHAN JU *Calendula officinalis* (flower), KONG XIN XIAN *Alternanthera philoxeroides*, MU BIE GEN *Momordica cochinchinensis*, CHANG CHUN TENG *Hedera nepalensis* var. *sinensis*, TIAN CAI *Beta vulgaris*. **Ref:** 658, 700, 1521, 3551.

**2974 Calendulose D**

$C_{54}H_{88}O_{23}$ (1105.29). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

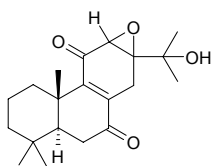
**2975 Calicoferol E**

$C_{27}H_{42}O_2$ (398.63). White powder, $[\alpha]_D^{25} = +21^\circ$ ($c = 0.22$, $CHCl_3$). **Pharm:** PTP1B inhibitor (IC₅₀ = 27.28 μmol/L). **Source:** ZHONG HUA XIAO JIAN LIU SHAN HU *Muricella sinensis*. **Ref:** 4563.

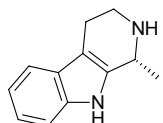


2976 Callicarpone

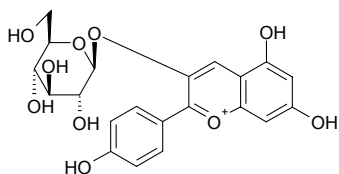
[5938-11-4] $C_{20}H_{28}O_4$ (332.44). Pharm: Fish toxin. Source: BAI MAO ZI ZHU *Callicarpa candicans*. Ref: 658.

**2977 Calligonine**

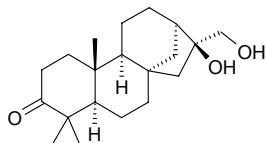
[2254-36-6] $C_{12}H_{14}N_2$ (186.26). Pharm: Antihypertensive. Source: SHA ZAO *Elaeagnus angustifolia*. Ref: 658.

**2978 Callistephin**

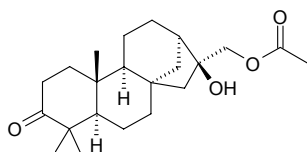
[18466-51-8] $C_{21}H_{21}O_{10}^+$ (433.40). Source: NAN TIAN ZHU ZI *Nandina domestica*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*]. Ref: 6.

**2979 Calliterpenone**

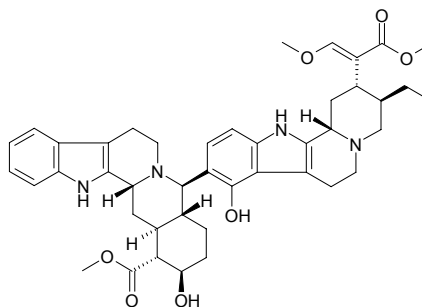
[38602-53-8] $C_{20}H_{32}O_3$ (320.48). mp 153~155°C. Source: DA YE ZI ZHU *Callicarpa macrophylla*. Ref: 6.

**2980 Calliterpenone monoacetate**

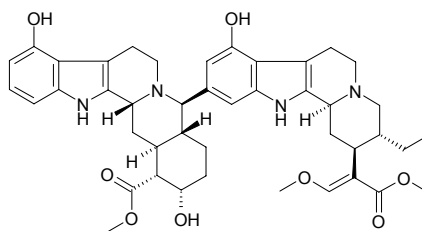
$C_{22}H_{34}O_4$ (362.51). mp 124°C. Source: DA YE ZI ZHU *Callicarpa macrophylla*. Ref: 6.

**2981 Callophylline A**

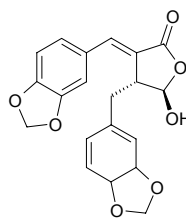
$C_{43}H_{52}N_4O_7$ (736.92). Source: HOU YE GOU TENG *Uncaria callophylla*. Ref: 5341.

**2982 Callophylline B**

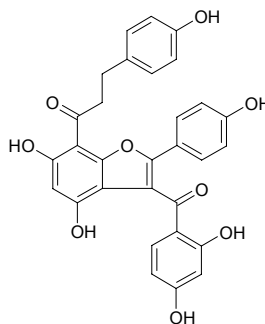
$C_{43}H_{52}N_4O_8$ (752.92). Source: HOU YE GOU TENG *Uncaria callophylla*. Ref: 5341.

**2983 Calocedrin**

$C_{20}H_{18}O_7$ (370.36). Pharm: Anti-inflammatory (modulator of cytokine network: inhibits LPS-activated production of TNF- α in RAW264.7 cells, $IC_{50} > 150 \mu\text{mol/L}$). Source: SI ZI TAN *Pterocarpus santalinus* (heartwood). Ref: 4416.

**2984 Calodenin A**

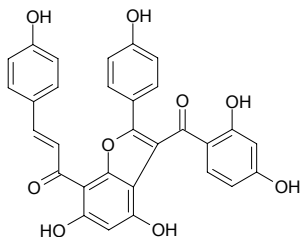
$C_{30}H_{22}O_9$ (526.50). Source: *Ochna afzelii*. Ref: 3449.



2985 Calodenin B

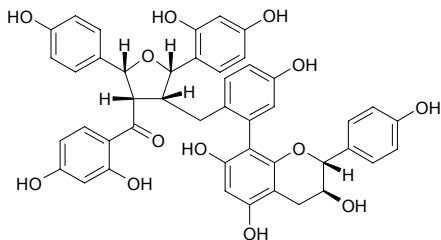
$C_{30}H_{20}O_9$ (524.49). **Pharm:** Antibacterial (MDR *Staphylococcus aureus*: RN4220 strain, MIC = 64 μ g/mL, control Erythromycin, MIC = 128 μ g/mL; XU212 strain, MIC = 8 μ g/mL, control Tetracycline, MIC = 128 μ g/mL; SA-1199-B strain, MIC = 16 μ g/mL, control Norfloxacin, MIC = 32 μ g/mL)^[5372]; cytotoxic (MCF7 breast cancer cells, MTT method, IC₅₀ = (7 \pm 0.5) μ mol/L, control Doxorubicin, IC₅₀ = (0.1 \pm 0.001) μ mol/L)^[5372].

Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*, SANG DAO BU SHI MU *Brackenridgea zanguebarica*, *Ochna afzelii*. **Ref:** 3449, 5372.

**2986 Caloflavan A**

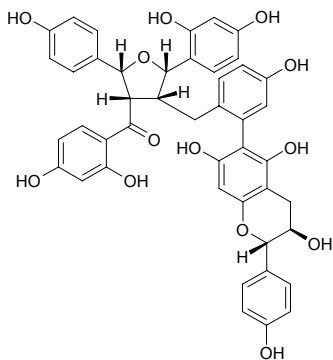
$C_{45}H_{38}O_{13}$ (786.80). Amorphous solid, $[\alpha]_D^{28} = +31^\circ$ ($c = 0.015$, MeOH).

Source: KA MAI LONG JIN LIAN MU *Ochna calodendron*. **Ref:** 1996.

**2987 Caloflavan B**

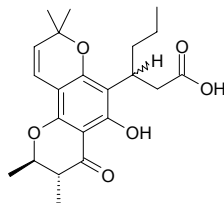
$C_{45}H_{38}O_{13}$ (786.80). Amorphous solid, $[\alpha]_D^{28} = +28^\circ$ ($c = 0.037$, MeOH).

Source: KA MAI LONG JIN LIAN MU *Ochna calodendron*. **Ref:** 1996.

**2988 Calolongic acid**

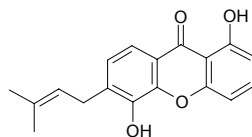
$C_{22}H_{28}O_6$ (388.46). Amorphous solid, $[\alpha]_D^{25} = -13.1^\circ$ ($c = 0.15$, $CHCl_3$).

Pharm: Antifungal (*Aspergillus fumigatus*, MIC₈₀ = 4 μ g/mL, control Amphotericin B, MIC₈₀ = 8 μ g/mL)^[5489]. **Source:** SU GE LAN HU TONG *Calophyllum caledonicum* (seed). **Ref:** 5489.

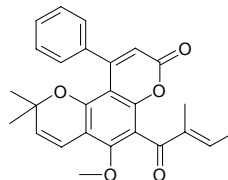
**2989 Calophyllin B**

Guanandin; 6-(3-Methyl-2-butenyl)-1,5-dihydroxyxanthone [17623-60-8]

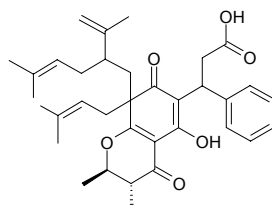
$C_{18}H_{16}O_4$ (296.33). **Pharm:** Anti-inflammatory; anti-hypotension (PAF-induced, ID₅₀ = (15.1 \pm 3.3) μ mol/kg, control Ginkgolide B, ID₅₀ = (38.5 \pm 2.7) μ mol/kg, CV-3988, ID₅₀ = (2.4 \pm 1.2) μ mol/kg)^[5050]. **Source:** HAI TANG GUO *Calophyllum inophyllum*, *Calophyllum austroindium* (stem wood). **Ref:** 658, 1319, 5050.

**2990 Calophyllolide**

[548-27-6] $C_{26}H_{24}O_5$ (416.48). mp 160°C. **Pharm:** Antiarthritic; anti-inflammatory (rat, ip, swollen foot model caused by carrageenan, 40mg/kg, InRt = 60.7%, rat, orl, swell-foot model caused by carrageenan, ED₅₀ = 140mg/kg); cytotoxic (KB, IC₅₀ = 3.5 μ g/mL)^[3866]; antibacterial (*Staphylococcus aureus*, 20 μ g/disk, DIZ = 16.0mm; *Escherichia coli*, 20 μ g/disk, inactive; *Vibrio anguillarum*, 20 μ g/disk, inactive)^[3866]; antifungal inactive (*Candida tropicalis*, 20 μ g/disk)^[3866]. **Source:** HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). **Ref:** 658, 661, 3866.

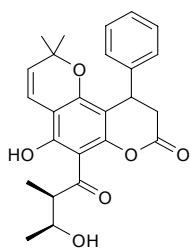
**2991 Calophynic acid**

Inocalophyllin A $C_{35}H_{44}O_6$ (560.74). Amorphous solid, $[\alpha]_D^{25} = -169^\circ$ ($c = 0.05$, CH_2Cl_2). **Pharm:** Cytotoxic (KB, IC₅₀ = 10.5 μ g/mL)^[3866]; antibacterial (*Staphylococcus aureus*, 20 μ g/disk, DIZ = 10.0mm; *Escherichia coli*, 20 μ g/disk, inactive; *Vibrio anguillarum*, 20 μ g/disk, inactive)^[3866]; antifungal inactive (*Candida tropicalis*, 20 μ g/disk)^[3866]. **Source:** HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). **Ref:** 3866, 4354.

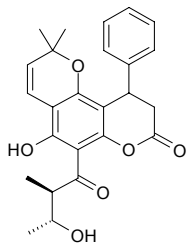


2992 Calopolyanolid A

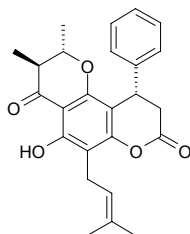
6,6-Dimethyl-12 α -(2 α ,3 α -H)-12 α -(2-methyl-3-hydroxybutanoyl)-8b-hydroxy-4-phenyl-pyranodihydrocoumarin C₂₅H₂₆O₆ (422.48). Yellow oil, $[\alpha]_D^{26} = -176.54^\circ$ ($c = 0.21$, CHCl₃); $[\alpha]_D^{20} = -170.2^\circ$ ($c = 0.213$, CHCl₃). Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield =0.0044%dw)^[4767]. Ref: 2145, 4767.

**2993 Calopolyanolid B**

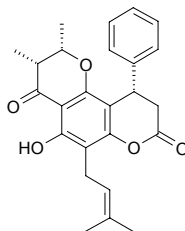
6,6-Dimethyl-12 α -(2 α ,3 β -H)-12 α -(2-methyl-3-hydroxybutanoyl)-8b-hydroxy-4-phenyl-pyranodihydrocoumarin C₂₅H₂₆O₆ (422.48). Yellow oil, $[\alpha]_D^{26} = -9.960^\circ$ ($c = 0.23$, CHCl₃); $[\alpha]_D^{20} = -105.5^\circ$ ($c = 0.241$, CHCl₃). Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield =0.0040%dw)^[4767]. Ref: 2145, 4767.

**2994 Calopolyanolid C**

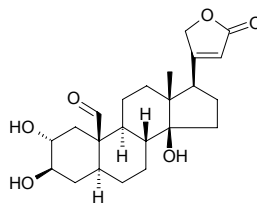
C₂₅H₂₆O₅ (406.48). Pale yellow needles (CHCl₃), mp 127~128°C, $[\alpha]_D^{20} = -193.2^\circ$ ($c = 0.132$, CHCl₃). Pharm: Antiviral inactive (*in vitro*, vero cell line, HSV-2 virus, GI₅₀ > 250μg/mL; control Acyclovir)^[4767]. Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield =0.0062%dw). Ref: 4767.

**2995 Calopolyanolid D**

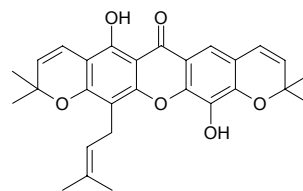
C₂₅H₂₆O₅ (406.48). Pale yellow needles (CHCl₃), mp 157~158°C, $[\alpha]_D^{20} = -34.1^\circ$ ($c = 0.132$, CHCl₃). Pharm: Antiviral inactive (*in vitro*, vero cell line, HSV-2 virus, GI₅₀ > 250μg/mL; control Acyclovir)^[4767]. Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield =0.0056%dw). Ref: 4767.

**2996 Calotropagenin**

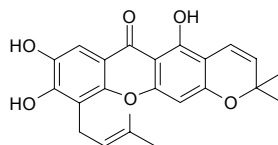
[24211-64-1] C₂₃H₃₂O₆ (404.51). mp 238~250°C. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*. Ref: 6.

**2997 Caloxanthone**

C₂₈H₂₈O₆ (460.53). Source: *Calophyllum blancoi* (root). Ref: 4441.

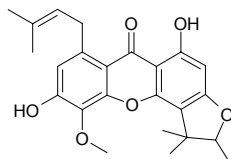
**2998 Caloxanthone A**

C₂₃H₂₂O₆ (394.43). Pharm: Cytotoxic (KB, IC₅₀ = 7.4μg/mL)^[3866]; antibacterial (*Staphylococcus aureus*, 20μg/disk, DIZ = 9.0mm; *Escherichia coli*, 20μg/disk, inactive; *Vibrio anguillarum*, 20μg/disk, inactive)^[3866]; antifungal inactive (*Candida tropicalis*, 20μg/disk)^[3866]. Source: HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). Ref: 3866.

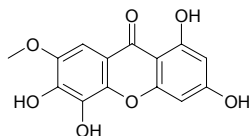


2999 Caloxanthone B

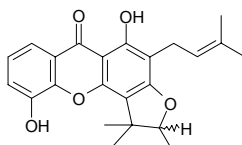
$C_{24}H_{26}O_6$ (410.47). Source: HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). Ref: 3866.

**3000 Caloxanthone E**

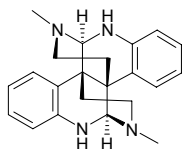
$C_{14}H_{10}O_7$ (290.23). Pharm: Anti-hypotension (PAF-induced, ID_{50} = $(26.4 \pm 9.0) \mu\text{mol/kg}$, control Ginkgolide B, ID_{50} = $(38.5 \pm 2.7) \mu\text{mol/kg}$, CV-3988, ID_{50} = $(2.4 \pm 1.2) \mu\text{mol/kg}$). Source: HAI TANG GUO *Calophyllum inophyllum* (root). Ref: 5050.

**3001 Caloxanthone L**

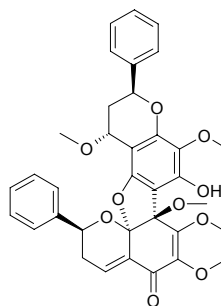
$C_{23}H_{24}O_5$ (380.44). Amorphous solid, $[\alpha]_D^{25}$ = $+6.6^\circ$ (c = 0.15, MeOH). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (seed). Ref: 5489.

**3002 Calycanthine**

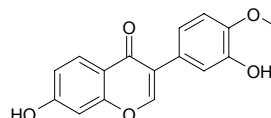
[595-05-1] $C_{22}H_{26}N_4$ (346.48). mp (+) 250~251°C, (\pm) 253~258°C. Pharm: Causes strong convulsion (mammal); inhibits heart (anesthetic cat and dog); antihypertensive (narcosis cat and dog); uterine and intestinal smooth muscle stimulant (rbt, *in vitro*); LD_{50} (mus, iv) = $(43.79 \pm 1.89) \text{mg/kg}$, (rat, iv) = $(17.16 \pm 0.82) \text{mg/kg}$. Source: MEI GUO XIA LA MEI *Calycanthus floridus*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], JIA ZHOU XIA LA MEI *Calycanthus occidentalis*. Ref: 1, 6.

**3003 Calycopterone**

$C_{35}H_{34}O_{10}$ (614.66). Colorless prisms, mp 117°C. Source: E CHI TENG *Calycopteris floribunda* (green part). Ref: 3779.

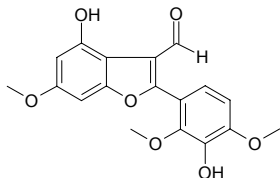
**3004 Calycosin**

7,3'-Dihydroxy-4'-methoxyisoflavone [20575-57-9] $C_{16}H_{12}O_5$ (284.27). Colorless needles, mp 245~247°C. Pharm: Antibacterial (*Escherichia coli*, inactive, control Chloramphenicol, MIA = 0.001 μg ; *Bacillus subtilis*, inactive, Chloramphenicol, MIA = 0.001 μg ; *Staphylococcus aureus*, inactive, Chloramphenicol, MIA = 0.001 μg); antifungal (*Candida mycoderma*, MIA = 0.1 μg , Miconazole = MIA = 0.0001 μg)^[3785]; antioxidant (DPPH free radical scavenger, TLC detection limit = 0.5 μg , IC_{50} = 150 $\mu\text{g/mL}$; control Quercetin, TLC detection limit < 0.05 μg , IC_{50} = 7 $\mu\text{g/mL}$; Gallic acid, TLC detection limit < 0.05 μg , IC_{50} = 4 $\mu\text{g/mL}$; Ascorbic acid, TLC detection limit < 0.10 μg , IC_{50} = 18 $\mu\text{g/mL}$)^[3785]; antimalarial (*Plasmodium falciparum* PoW, IC_{50} = $(4.3 \pm 0.9) \mu\text{g/mL}$, control Chloroquine diphosphate, IC_{50} = $(0.006 \pm 0.002) \mu\text{g/mL}$; Dd2, IC_{50} = $(9.9 \pm 1.5) \mu\text{g/mL}$, Chloroquine diphosphate, IC_{50} = $(0.063 \pm 0.01) \mu\text{g/mL}$)^[5208]; antibacterial (*Staphylococcus aureus*, MIA = 50.0 μg , Chloramphenicol, MIA = 0.0001 μg ; *Bacillus subtilis*, MIA = 50.0 μg , Chloramphenicol, MIA = 0.0001 μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.05 μg , control Miconazole, MIA = 0.0001 μg)^[5247]; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 $\mu\text{mol/L}$, InRt = $(6.3 \pm 1.1)\%$, inactive, control Silybin, 100 $\mu\text{mol/L}$, InRt = $(77.0 \pm 5.5)\%$)^[4095]. Source: GUANG BU DING GONG TENG *Erycibe expansa*, HUANG QI *Astragalus membranaceus* (dried root: mean content of 2 origins = 0.0061%)^[5508], JI KUAN CI TONG *Erythrina latissima* (stem wood), KUN MING JI XUE TENG *Milletia dielsiana*, MENG GU HUANG QI *Astragalus mongholicus* (dried root: mean content of 4 origins = 0.0153%)^[5508], WU CI KE YA SHU *Andira inermis* (leaf), *Bolusanthus speciosus* (root wood), *Baptisia* spp., *Bowdichia* spp., *Cadia* spp., *Cladrastis* spp., *Dalbergia* spp., *Pterocarpus* spp., *Sophora* spp., *Thermopsis* spp., *Trifolium* spp., *Myroxylon* spp., *Cyclobium* spp., *Machaerium* spp., occurs in many plants. Ref: 2205, 1521, 3785, 4095, 5208, 5247, 5508.

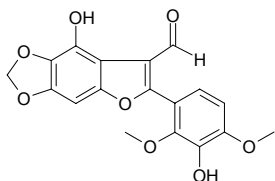


3005 Calycosin A

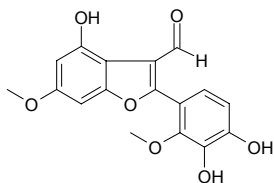
2-[2',4'-Dimethoxy-3'-hydroxyphenyl]-4-hydroxy-6-methoxy-benzofuran-3-carbaldehyde C₁₈H₁₆O₇ (344.32). **Pharm:** Antimalarial (*Plasmodium falciparum* PoW, IC₅₀ = (2.3±0.4)μg/mL, control Chloroquine diphosphate, IC₅₀ = (0.006±0.002)μg/mL; Dd2, IC₅₀ = (3.9±0.2)μg/mL, Chloroquine diphosphate, IC₅₀ = (0.063±0.010)μg/mL). **Source:** WU CI KE YA SHU *Andira inermis* (leaf). **Ref:** 5208.

**3006 Calycosin B**

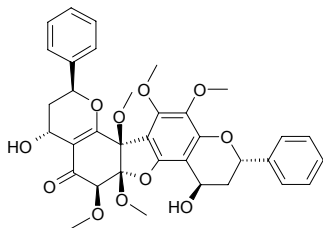
2-[2',4'-Dimethoxy-3'-hydroxyphenyl]-4-hydroxy-5,6-methylenedioxybenzofuran-3-carbaldehyde C₁₈H₁₄O₈ (358.31). **Source:** WU CI KE YA SHU *Andira inermis* (leaf). **Ref:** 5208.

**3007 Calycosin C**

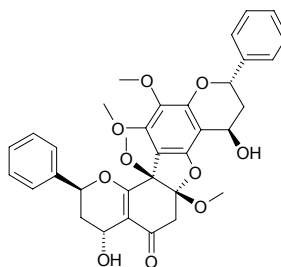
2-[3',4'-Dihydroxy-2'-methoxyphenyl]-4-hydroxy-6-methoxy-benzofuran-3-carbaldehyde C₁₇H₁₄O₇ (330.30). **Pharm:** Antimalarial (*Plasmodium falciparum* PoW, IC₅₀ = (5.9±0.5)μg/mL, control Chloroquine diphosphate, IC₅₀ = (0.006±0.002)μg/mL; Dd2, IC₅₀ = (6.3±1.0)μg/mL, Chloroquine diphosphate, IC₅₀ = (0.063±0.010)μg/mL). **Source:** WU CI KE YA SHU *Andira inermis* (leaf). **Ref:** 5208.

**3008 Calyflorenone C**

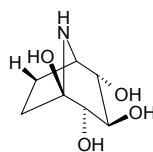
C₃₅H₃₆O₁₁ (632.67). Pale amorphous solid, mp 185°C (Et₂O-petrol), [α]_D²⁰ = -17.09° (c = 0.158). **Source:** E CHI TENG *Calycopteris floribunda* (green part). **Ref:** 3779.

**3009 Calyflorenone D**

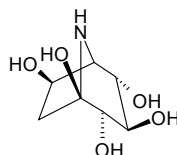
C₃₄H₃₄O₁₀ (602.64). Pale amorphous solid, mp 108-114°C (Et₂O-petrol), [α]_D²⁰ = -27.47° (c = 0.142). **Source:** E CHI TENG *Calycopteris floribunda* (green part). **Ref:** 3779.

**3010 Calystegine B₂**

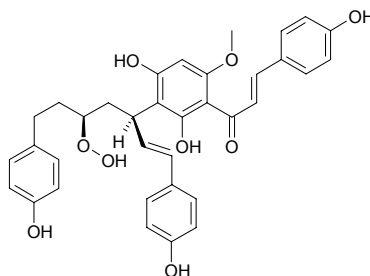
Nortropanoline C₇H₁₃NO₄ (175.19). **Pharm:** Lactase inhibitor (trehalase inhibitor)^[2513]. **Source:** SANG ZHI *Morus alba*, *Morus* sp. **Ref:** 2170, 2513.

**3011 Calystegine C₁**

C₇H₁₃NO₅ (191.19). **Pharm:** Lactase inhibitor (trehalase inhibitor)^[2513]. **Source:** *Morus* sp. **Ref:** 2513.

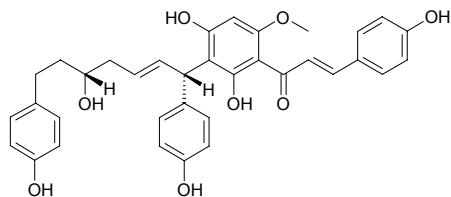
**3012 Calyxin A**

C₃₅H₃₄O₉ (598.66). **Pharm:** Cytotoxic (Colon26-L5, ED₅₀ = 13.1 μmol/L; HT1080, ED₅₀ = 10.7 μmol/L; control Curcumin, Colon26-L5, ED₅₀ = 23.2 μmol/L; HT1080, ED₅₀ = 23.4 μmol/L). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00033%). **Ref:** 3035.

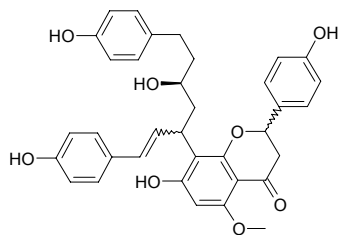


3013 Calyxin B

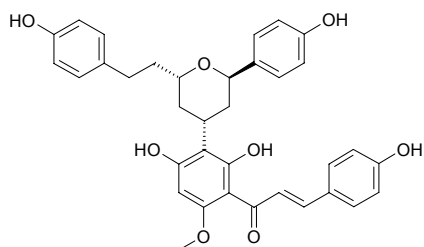
$C_{35}H_{34}O_8$ (582.66). Source: ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). Ref: 4522.

**3014 Calyxin E**

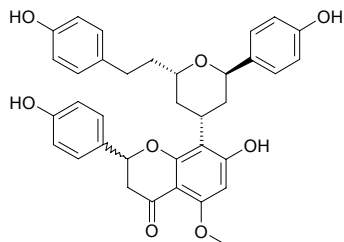
$C_{35}H_{34}O_8$ (582.66). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 98.1 \mu\text{mol/L}$; HT1080, $ED_{50} = 21.7 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00019%). Ref: 3035.

**3015 Calyxin F**

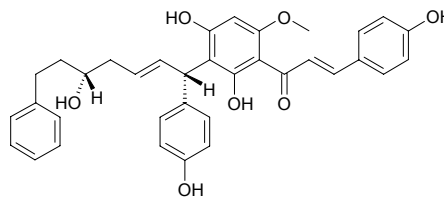
$C_{35}H_{34}O_8$ (582.66). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 10.4 \mu\text{mol/L}$; HT1080, $ED_{50} = 10.4 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000024%). Ref: 3035.

**3016 Calyxin G**

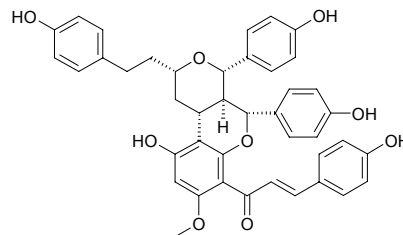
$C_{35}H_{34}O_8$ (582.66). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 42.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 25.9 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000012%). Ref: 3035.

**3017 Calyxin H**

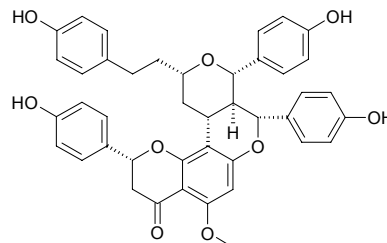
$C_{33}H_{34}O_7$ (566.66). Source: ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). Ref: 4522.

**3018 Calyxin I**

$C_{42}H_{38}O_9$ (686.77). Light yellow amorphous solid, $[\alpha]_D^{25} = -16.4^\circ$ ($c = 0.05$, MeOH). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 8.39 \mu\text{mol/L}$; HT1080, $ED_{50} = 9.08 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$)^[3035]. Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00026%^[3035]; yield = 0.00021%^[3042]; yield = 0.00019%^[3048]). Ref: 3035, 3042, 3048.

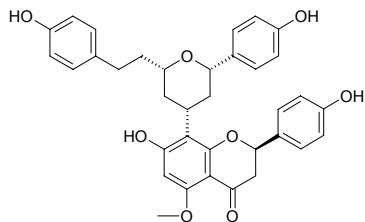
**3019 Calyxin J**

$C_{42}H_{38}O_9$ (686.77). Light yellow amorphous solid, $[\alpha]_D^{25} = +99.2^\circ$ ($c = 0.185$, MeOH). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 8.19 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$)^[3035]. Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00018%^[3035]; yield = 0.00085%^[3042]; yield = 0.00018%^[3048]). Ref: 3035, 3042, 3048.

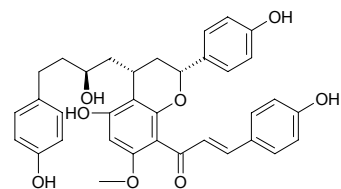


3020 Calyxin K

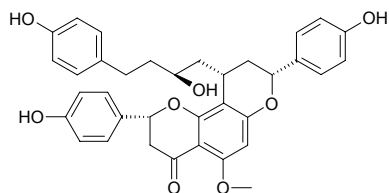
$C_{35}H_{34}O_8$ (582.66). Pale yellow amorphous solid, $[\alpha]_D^{25} = +35.5^\circ$ ($c = 0.06$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 7.73\mu\text{mol/L}$; HT1080, $ED_{50} = 5.09\mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2\mu\text{mol/L}$; HT1080, $ED_{50} = 23.4\mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000012%). **Ref:** 3035.

**3021 Calyxin L**

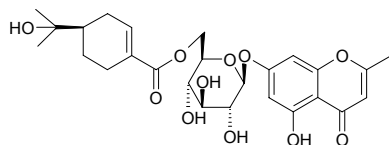
$C_{35}H_{34}O_8$ (582.66). Light yellow amorphous solid, $[\alpha]_D^{25} = +77.1^\circ$ ($c = 0.05$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 28.2\mu\text{mol/L}$; HT1080, $ED_{50} = 44.3\mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2\mu\text{mol/L}$; HT1080, $ED_{50} = 23.4\mu\text{mol/L}$)^[3035]. **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00011%^[3035]; yield = 0.00029%^[3042]; yield = 0.00011%dw^[3048]). **Ref:** 3035, 3042, 3048.

**3022 Calyxin M**

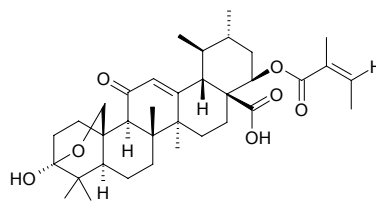
$C_{35}H_{34}O_8$ (582.66). Yellow amorphous solid (An epimeric mixture of calyxin M and epicalyxin M). **Pharm:** Cytotoxic (mixture of calyxin M and epicalyxin M (3:2): Colon26-L5, $ED_{50} = 42.1\mu\text{mol/L}$; HT1080, $ED_{50} = 10.1\mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2\mu\text{mol/L}$; HT1080, $ED_{50} = 23.4\mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed). **Ref:** 3035.

**3023 Camaldulenside**

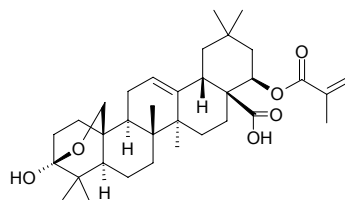
$C_{26}H_{32}O_{11}$ (520.54). White acicular crystals mp 208–209.5°C. **Source:** CHUI ZHI CHIAN YE *Eucalyptus camaldulensis* var. *pendula*. **Ref:** 856.

**3024 Camangeloyl acid**

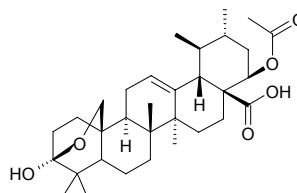
3,25-epoxy-3 α -hydroxy-22 β -[(Z)-29-methyl-29-butenoyloxy]-11-oxoolean-12-en-28-oic acid $C_{35}H_{50}O_7$ (582.78). Amorphous powder, $[\alpha]_D = +165^\circ$ ($c = 0.15$, $CHCl_3$). **Source:** WU SE MEI *Lantana camara* (aerial parts). **Ref:** 4309.

**3025 Camaric acid**

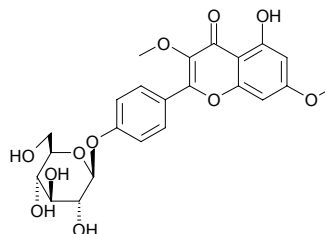
$C_{35}H_{52}O_6$ (568.80). **Source:** WU SE MEI *Lantana camara* (aerial parts). **Ref:** 4309.

**3026 Camarinic acid**

22 β -Acetoxylantic acid [163565-67-1] $C_{32}H_{48}O_6$ (528.74). Crystals, mp 204–205°C (methanol). **Pharm:** Antibacterial (*Staphylococcus aureus* and *Salmonella typhimurium*); antimutagenic. **Source:** WU SE MEI *Lantana camara*. **Ref:** 1084, 1100.

**3027 Camaroside**

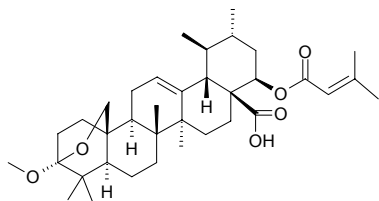
4',5-Dihydroxy-3,7-dimethoxyflavone-4'-O- β -D-glucopyranoside $C_{23}H_{24}O_{11}$ (476.44). Yellowish rabdiod crystals, mp 252–254°C. **Source:** WU SE MEI *Lantana camara*. **Ref:** 253.



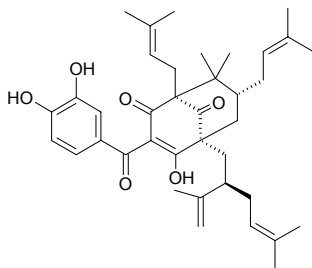
3028 Camaryolic acid

3,25-Epoxy-3 α -methoxy-22 β -[β , β -dimethylacryloyloxy]-urs-12-en-28-oic acid C₃₆H₅₄O₆ (582.83). Amorphous powder, [α]_D = +169° (*c* = 0.1, CHCl₃).

Source: WU SE MEI *Lantana camara* (aerial parts). Ref: 4309.

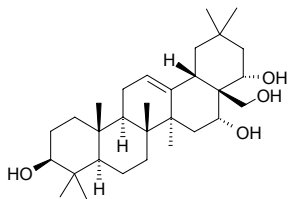
**3029 Cambogin**

C₃₈H₅₀O₆ (606.82). Pharm: Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 69%, control BHT, 10 μ mol/L, ScRt = 43%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 128 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC = 64 μ g/mL, Vancomycin, MIC = 2 μ g/mL). Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 5319.

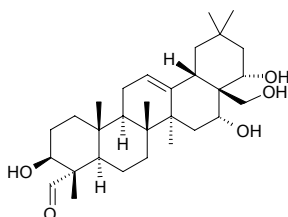
**3030 Camelliagenin A**

Theasapogenol D [53227-91-1] C₃₀H₅₀O₄ (474.73). mp 282–283°C, 290–293°C. Source: CHA ZI XIN *Camellia oleifera*, ZHEN ZHU CAI

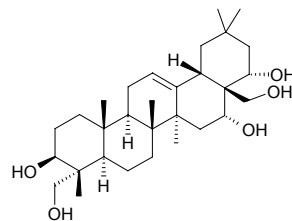
Lysimachia clethroides. Ref: 6.

**3031 Camelliagenin B**

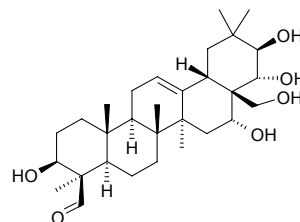
[14511-74-1] C₃₀H₄₈O₅ (488.71). mp 200–205°C, 195–204°C. Source: CHA ZI XIN *Camellia oleifera*. Ref: 6.

**3032 Camelliagenin C**

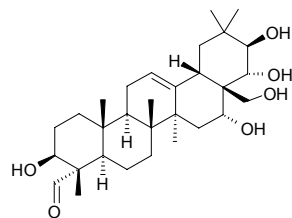
Theasapogenol C [14440-27-8] C₃₀H₅₀O₅ (490.73). mp 262–263°C, 280–283°C. Source: CHA ZI XIN *Camellia oleifera*, ZHEN ZHU CAI *Lysimachia clethroides*. Ref: 6.

**3033 Camelliagenin D**

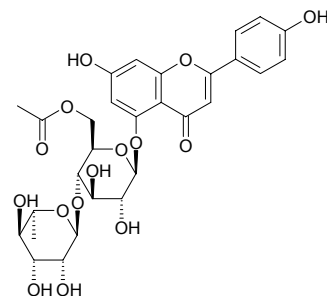
[25122-87-6] C₃₀H₄₈O₆ (504.71). mp 250–258°C. Source: CHA ZI XIN *Camellia oleifera*, ZHEN ZHU CAI *Lysimachia clethroides*. Ref: 6.

**3034 Camelliagenin E**

Theasapogenol E [15399-41-4] C₃₀H₄₈O₆ (504.71). mp 237.5–239°C. Source: CHA ZI XIN *Camellia oleifera*, ZHEN ZHU CAI *Lysimachia clethroides*. Ref: 6.

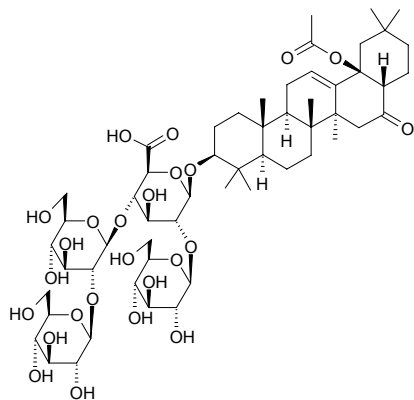
**3035 Camellianin A**

Apigenin-5-*O*- α -L-rhamnosyl-(1 \rightarrow 4)-6''-acetyl- β -D-glucoside C₂₉H₃₂O₁₅ (620.57). Colorless acicular crystals (methanol), mp 196–197°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 636.

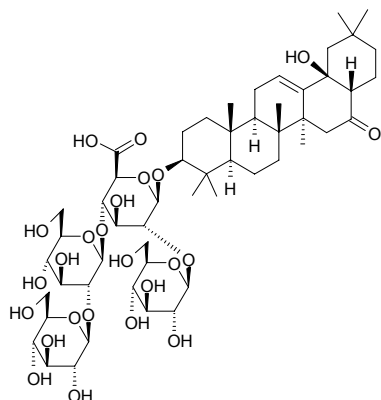


3036 Camellidin I

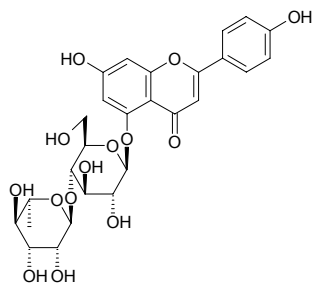
[96827-22-4] C₅₅H₈₆O₂₅ (1147.28). **Pharm:** Antifungal. **Source:** SHAN CHA *Camellia japonica*. **Ref:** 658.

**3037 Camellidin II**

[96827-23-5] C₅₃H₈₄O₂₄ (1105.25). **Pharm:** Antifungal; insect antifeedant (larva of *Eurema hecabe manarina*). **Source:** SHAN CHA *Camellia japonica*. **Ref:** 658.

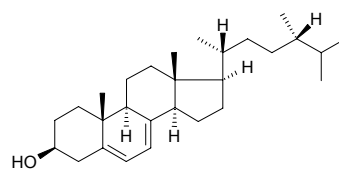
**3038 Camellinanin B**

C₂₇H₃₀O₁₄ (578.53). **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 660, 1521.

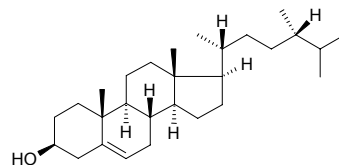
**3039 4⁷-Campesterol‡**

22,23-Dihydroergosterol [516-79-0] C₂₈H₄₆O (398.68). mp 152–153°C.

Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], GUA LOU *Trichosanthes kirilowii*, MU ER *Auricularia auricula*. **Ref:** 2, 6. ‡Note: See compound 14229.

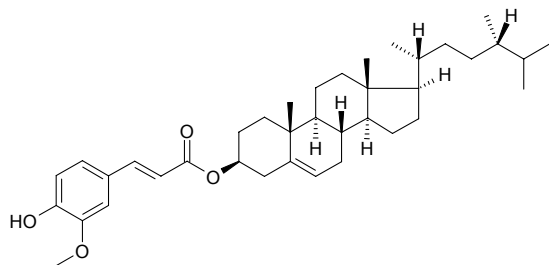
**3040 Campesterol**

(24*S*)-Methylcholest-5-en-3β-ol [474-62-4] C₂₈H₄₈O (400.69). Needles (Me₂CO), mp 157–158°C, [α]_D²⁴ = –46.3° (c = 1.2, CHCl₃). **Pharm:** One of components of plant epicyte. **Source:** BAI FAN DOU *Phaseolus vulgaris*, BAI XIAN PI *Dictamnus dasycarpus*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DONG FANG GOU JI *Woodwardia orientalis*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GAN ZHE *Saccharum sinensis*, GOU QI ZI *Lycium chinense*, GU SUI BU *Drynaria fortunei*, GUA LOU *Trichosanthes kirilowii*, HEI DA DOU *Glycine max*, HUANG BAI *Phellodendron amurense*, HUANG QIN *Scutellaria baicalensis*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING MI *Oryza sativa*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], LU ZHU GEN *Arundo donax*, LUO HUA SHENG *Arachis hypogaea*, MU MA HUANG *Casuarina equisetifolia*, PU DI WU GONG *Lycopodium cernuum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN ZUAN FENG *Lindera obtusiloba*, SANG YE *Morus alba*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], WU GENG WU JIA PI *Acanthopanax sessiliflorus*, XIANG PI MU *Alstonia scholaris*, XIANG SI ZI *Abrus precatorius*, YUN TAI ZI *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], OU ZHOU YOU CAI *Brassica napus*, ZHU YE LAN *Arundina chinensis*, occurs in many plants. **Ref:** 2, 658, 660, 1399, 1419.

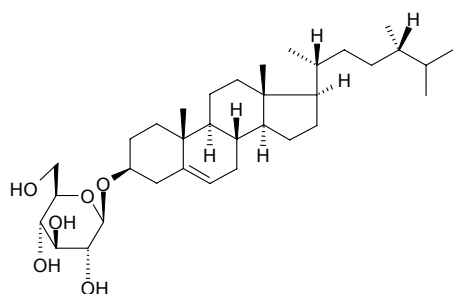


3041 Campesteryl ferulate

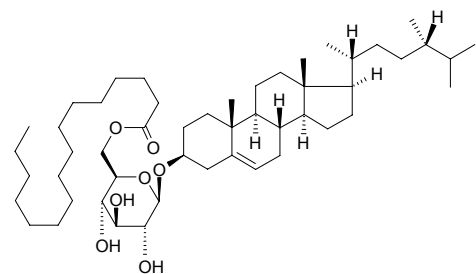
$C_{38}H_{56}O_4$ (576.87). Source: MI PI KANG *Oryza sativa*. Ref: 6.

**3042 Campesteryl-D-glucoside**

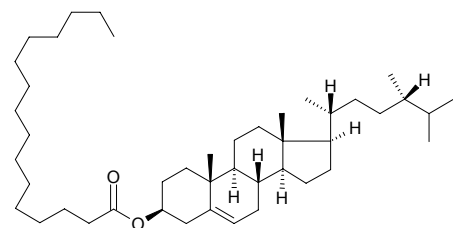
$C_{34}H_{58}O_6$ (562.84). Source: DONG FANG GOU JI *Woodwardia orientalis*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 6, 660.

**3043 Campesteryl-D-glucoside-6'-palmitate**

$C_{50}H_{88}O_7$ (801.25). Source: DONG FANG GOU JI *Woodwardia orientalis*. Ref: 6.

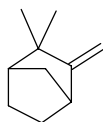
**3044 Campesteryl palmitate**

$C_{44}H_{78}O_2$ (639.11). Source: DONG FANG GOU JI *Woodwardia orientalis*. Ref: 6.

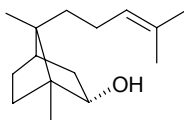
**3045 Camphene**

2,2-Dimethyl-3-methylenebicyclo[2,2,1]heptane [79-92-5] $C_{10}H_{16}$ (136.24). mp (+) 51°C, bp (+) 160~162°C, mp (-) 51~52°C, bp (-) 158~160°C.

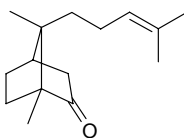
Pharm: Antihypercholesterolemic (reduces saturation indices of cholesterol in curing calculus). Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], DANG GUI *Angelica sinensis*, GAN JIANG *Zingiber officinale*, HONG CHAI HU *Bupleurum scorzonerifolium*, HUANG HUA HAO *Artemisia annua*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], NAN HE SHI *Daucus carota*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, XIE CAO *Valeriana officinalis* (the compound was isolated from the plant by Bertram, et al. in 1890)^[5505], YU JIN *Curcuma aromatica*, YU XING CAO *Houttuynia cordata*, ZI SU YE *Perilla frutescens* var. *arguta*, occurs in many plants. Ref: 2, 6, 658, 660, 5505.

**3046 Campherenol**

$C_{15}H_{26}O$ (222.37). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2.

**3047 Campherenone**

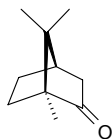
$C_{15}H_{24}O$ (220.36). Source: ZHANG MU *Cinnamomum camphora*. Ref: 6.



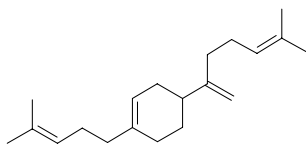
3048 Camphor

2-Bornanone [76-22-2] C₁₀H₁₆O (152.24). Rhomboid crystals (ethanol), mp (+) 179.75°C, (-) 178.6°C, bp (+) 204°C, (-) 204°C, [α]_D²⁵ = 41–43° (ethanol).

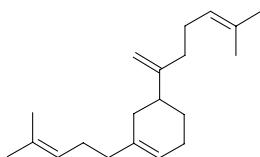
Pharm: Cardiotonic; irritant (local); antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 1.56mg/mL; *Candida albicans* KCCM11282, MFC > 6.25mg/mL; *Candida utilis* KCCM11356, MFC > 6.25mg/mL; *Cryptococcus neoformans* KCCM0564, MFC = 1.56mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 1.56mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.39mg/mL; *Blastoschyzomyces capitatus* KCCM50270, MFC = 0.78mg/mL)^[4079]. **Source:** AI JU *Chrysanthemum vulgare*, BAI CHANG *Acorus calamus*, BING PIAN *Dryobalanops aromatica* (2.09%–2.70%), CHAO XIAN DA BAI LI XIANG *Thymus magnus*, DA LIANG JIANG *Alpinia galanga*, HU SUI ZI *Coriandrum sativum*, HUANG HUA HAO *Artemisia annua*, LIAN QIAO *Forsythia suspensa*, PI PA *Eriobotrya japonica*, SHA REN *Amomum villosum* (dried ripe fruit: content scope = 0.51%–0.59%^[5501], mean content = 0.047%^[5524]), SHENG JIANG *Zingiber officinale*, TU SHA REN *Alpinia japonica*, WU MAI BAI LI XIANG *Thymus quinquecostatus*, YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*], YU JIN *Curcuma aromatica*, YUN XIANG YE HAO *Artemisia sativum*, ZHANG MU *Cinnamomum camphora* (content = 0.25%^[5501]). **Ref:** 1, 2, 658, 660, 4079, 5501, 5524.

**3049 α-Camphorene**

[532-87-6] C₂₀H₃₂ (272.48). bp 190–192°C/12mmHg. **Source:** ZHANG MU *Cinnamomum camphora*. **Ref:** 6.

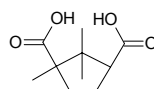
**3050 γ-Camphorene**

C₂₀H₃₂ (272.48). bp 176–178°C/4.5mmHg. **Source:** ZHANG MU *Cinnamomum camphora*. **Ref:** 6.

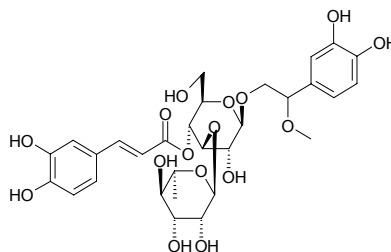
**3051 Camphoric acid**

cis-1,2,2-Trimethyl-1,3-cyclopentanedicarboxylic acid C₁₀H₁₆O₄ (200.24).

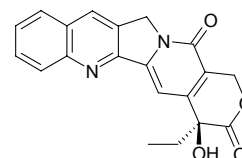
Source: DANG GUI *Angelica sinensis*. **Ref:** 2.

**3052 Campneoside I**

[95519-12-3] C₃₀H₃₈O₁₆ (654.63). Amorphous powder, [α]_D = –68.2° (c = 0.43, methanol). **Pharm:** Antibacterial (*Streptococcus* sp. and *Staphylococcus* sp., MIC = 150μg/mL). **Source:** BAI ZHI MA *Sesamum indicum* (white seed) [Syn. *Sesamum orientale* (white seed)], HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)], HU MA YE *Sesamum indicum*, MAO PAO TONG *Paulownia tomentosa*, PING CHE QIAN *Plantago depressa*. **Ref:** 949, 1116, 1122, 1130, 1137, 1193.

**3053 Camptothecin**

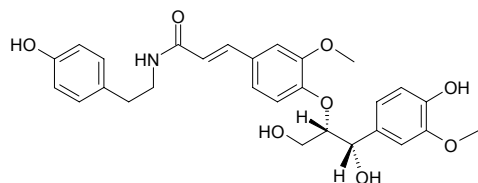
Camptothecin [7689-03-4] C₂₀H₁₆N₂O₄ (348.36). mp 264–267°C (dec), [α]_D²⁵ = +31.3° (CHCl₃-MeOH, 8:2), insoluble in water, soluble in chloroform, ethanol.^[5507] **Pharm:** Cytotoxic (HeLa, IC₅₀ = 0.5μmol/mL; HL-60, IC₅₀ = 0.1μmol/mL; WI-38, IC₅₀ = 0.6μmol/mL)^[3807]; cytotoxic (Bel7402, ED₅₀ = 0.06μg/mL; BGC823, ED₅₀ = 0.09μg/mL; HCT8, ED₅₀ = 0.14μg/mL; A549, ED₅₀ = 0.09μg/mL; MCF7, ED₅₀ = 0.01μg/mL)^[5338]; cytotoxic (Selective DNA-damaging activity, yeast assay: RS321NpRAD52(gal), IC₅₀ = 100μg/mL; RS321NpRAD52(glu), IC₅₀ = 0.6μg/mL)^[5457]; antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae* RS52YK(rad52Y), IC₁₂ = 0.6μg/mL)^[5159]; antineoplastic (animal model). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), MA BI MU *Nothapodytes pittosporoides*^[5507], SHE GEN CAO *Ophiorrhiza mungos*, XI SHU *Camptotheca acuminata* (fruit: mean content collected from Sep. to Dec. = 0.137%^[5508]; leaf: mean content of 5 origins = 0.072%^[5508]). **Ref:** 1, 5, 6, 3807, 4527, 5159, 5338, 5457, 5507, 5508.



3054 erythro-Canabisine H

erythro-1-(4-Hydroxy-3-methoxyphenyl)-2-[4-{2-[N-(2-(4-hydroxyphenyl)ethyl)carbamoyl]ethenyl-2-methoxyphenoxy}] -1,3-propanodiol C₂₈H₃₁NO₈ (509.56).

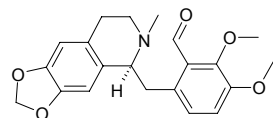
Yellowish oil. Source: DA MA JIN *Hibiscus cannabinus* (bark). Ref: 5233.

**3055 Canadoline**

C₂₁H₂₃NO₅ (369.42). mp 117~118°C, [α]_D²⁰ = +45.0° (c = 0.1, CHCl₃). Pharm:

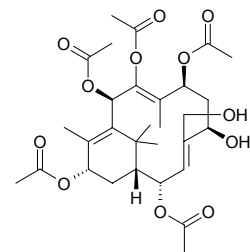
Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 250 μg/mL, control Chlorhexidine gluconate, MIC = 1.25 μg/mL; *Fusobacterium nucleatum*, MIC > 250 μg/mL, Chlorhexidine gluconate, MIC = 2.5 μg/mL).

Source: BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root). Ref: 5418.

**3056 Canadensene**

[163597-19-1] C₃₀H₄₂O₁₂ (594.66). Source: JIA NA DA HONG DOU SHAN

Taxus canadensis. Ref: 662.

**3057 Canadine**

[522-97-4] C₂₀H₂₁NO₄ (339.39). mp (+) 132°C, (-) 134°C; mp 135~136°C,

[α]_D²⁰ = -290.0° (c = 0.2, CHCl₃). Pharm: Antibacterial (oral pathogens:

Streptococcus mutans, MIC > 500 μg/mL, control Chlorhexidine gluconate, MIC = 1.25 μg/mL; *Fusobacterium nucleatum*, MIC > 500 μg/mL,

Chlorhexidine gluconate, MIC = 2.5 μg/mL)^[5418]; antihypertensive. Source:

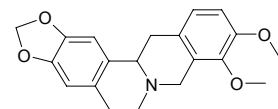
AO XIAN ZI JIN *Corydalis cava*, BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis*,

DU HUA JIAO *Zanthoxylum veneficium*, DUAN CI HUA JIAO *Zanthoxylum*

brachyacanthum, HUA ZI JIN *Corydalis cheilanthifolia*, YAN HU SUO

Corydalis yanhusuo [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*], YUAN YE

SHAN WU GUI *Corydalis rotundatour*. Ref: 1, 6, 5418.

**3058 Canadinic acid**

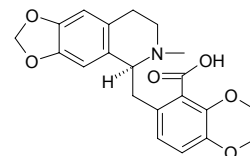
C₂₁H₂₃NO₆ (385.42). mp 134~135°C, [α]_D²⁰ = -150.0° (c = 0.1, CHCl₃).

Pharm: Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 300 μg/mL, control Chlorhexidine gluconate, MIC = 1.25 μg/mL;

Fusobacterium nucleatum, MIC > 300 μg/mL, Chlorhexidine gluconate,

MIC = 2.5 μg/mL). Source: BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root).

Ref: 5418.

**3059 Canaline**

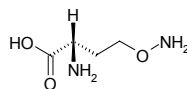
[496-93-5] C₄H₁₀N₂O₃ (134.14). mp 214°C. Pharm: Anti-metabolism;

influences CNS in insects; pyridoxal phosphate enzyme inhibitor. Source: CI

HUAI HUA *Robinia pseudoacacia*, DAO DOU *Canavalia gladiata*, DI

YANG QUE *Lotus corniculatus*, MU XU *Medicago sativa*, YANG DAO

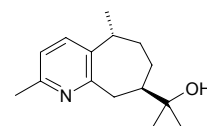
DOU *Canavalia ensiformis*. Ref: 6, 658.

**3060 Cananodine**

C₁₅H₂₃NO (233.36). Yellow oil, [α]_D²⁵ = -76.2° (c = 0.06, CHCl₃). Pharm:

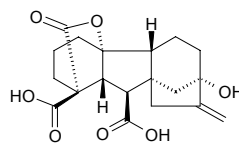
Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 0.22 μg/mL, Hep2,2,15, IC₅₀ = 3.8 μg/mL).

Source: YI LAN *Cananga odorata* (fruit). Ref: 3055.

**3061 Canavalia gibberellin I**

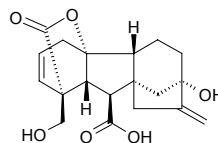
[18450-93-6] C₁₉H₂₂O₇ (362.38). mp 244~246°C. Source: DAO DOU

Canavalia gladiata. Ref: 6.

**3062 Canavalia gibberellin II**

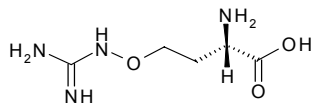
[18450-94-7] C₁₉H₂₂O₆ (346.38). mp 213~214°C. Source: DAO DOU

Canavalia gladiata. Ref: 6.

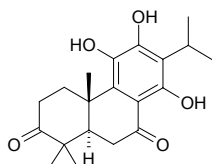


3063 Canavanine

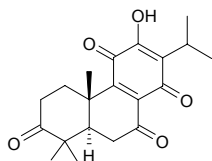
[543-38-4] $C_5H_{12}N_4O_3$ (176.18). **Pharm:** Cytotoxic (hmn and animal, tissular culture cells); plant growth and germination inhibitor; alkaline phosphatase inhibitor (hmn placenta); supertoxic agent. **Source:** HUANG QI *Astragalus membranaceus*, YANG DAO DOU *Canavalia ensiformis*, ZI YUN YING *Astragalus sinicus*. **Ref:** 2, 658, 660.

**3064 Candelabrone**

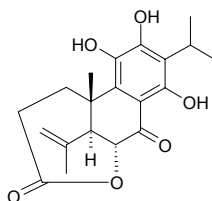
$C_{20}H_{26}O_5$ (346.43). Yellow solid, $[\alpha]_D^{24.5} = +120^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 1.56\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 5.22\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$)^[5494]. **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5376, 5494.

**3065 Candelabroquinone**

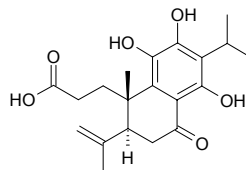
$C_{20}H_{24}O_5$ (344.41). Orange solid, $[\alpha]_D^{24.5} = +28^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 3.49\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 3.49\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$)^[5494]. **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5376, 5494.

**3066 Candesalvolactone**

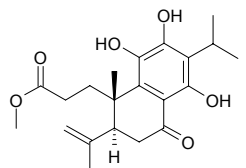
$C_{20}H_{24}O_6$ (360.41). Yellow amorphous solid, $[\alpha]_D^{38} = +85^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 4.64\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 5.91\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$). **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5494.

**3067 Candesalvone B**

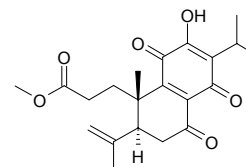
$C_{20}H_{26}O_6$ (362.43). Yellow amorphous solid, $[\alpha]_D^{38} = +130^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 4.76\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 4.55\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$). **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5494.

**3068 Candesalvone B methyl ester**

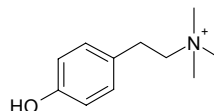
$C_{21}H_{28}O_6$ (376.45). Yellow solid, $[\alpha]_D^{24.5} = +47^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 1.40\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 6.17\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$)^[5494]. **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5376, 5494.

**3069 Candesalvoquinone**

$C_{21}H_{26}O_6$ (374.44). Brownish oil, $[\alpha]_D^{24.5} = -2^\circ$ ($c = 0.05$, $CHCl_3$). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 3.66\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 4.40\mu\text{mol/L}$; enzyme-dependent lipid peroxidation, $IC_{50} = 3.52\mu\text{mol/L}$, Rosmarinic acid, $IC_{50} = 0.39\mu\text{mol/L}$)^[5494]. **Source:** ZHU TAI SHU WEI CAO *Salvia candelabrum* (aerial parts). **Ref:** 5376, 5494.

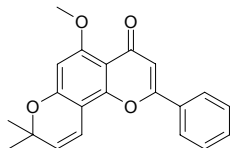
**3070 N-Candicine**

[6656-13-9] $C_{11}H_{18}NO^+$ (180.27). mp 279~280°C. **Pharm:** Increases blood pressure (animal model); ganglionic stimulant (similar action with nicotine). **Source:** HUANG BAI *Phellodendron amurense*, HOU PI HUA JIAO *Zanthoxylum elephantiasis*, MAI YA *Hordeum vulgare*. **Ref:** 1, 2.

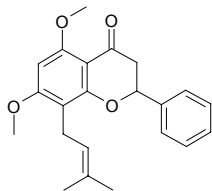


3071 Candidin

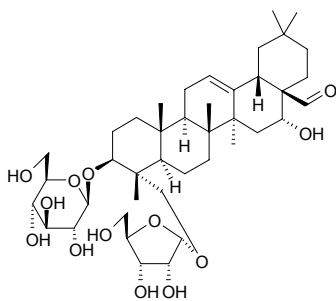
Anticancer Flavonoid PMV70P691-81 $C_{21}H_{18}O_4$ (334.38). **Pharm:** Cytotoxic (*in vitro*, Hepa 1c1c7 mouse hepatoma cells, $IC_{50} = 4.5\mu\text{g/mL}$, $CD = 4.5\mu\text{g/mL}$, $CI = 1$; control Sulforaphane, $IC_{50} = 2.1\mu\text{g/mL}$, $CD = 0.087\mu\text{g/mL}$, $CI = 24.1$)^[4721, 5038]. **Source:** SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0012%)^[4721]. **Ref:** 4721, 5038.

**3072 Candidone**

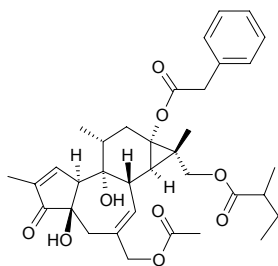
$C_{22}H_{24}O_4$ (352.43). **Pharm:** Cytotoxic (*in vitro*, Hepa 1c1c7 mouse hepatoma cells, $IC_{50} = 4.1\mu\text{g/mL}$, $CD = 4.7\mu\text{g/mL}$, $CI = 0.9$; control Sulforaphane, $IC_{50} = 2.1\mu\text{g/mL}$, $CD = 0.087\mu\text{g/mL}$, $CI = 24.1$). **Source:** SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0020%). **Ref:** 4721.

**3073 Candidoside A**

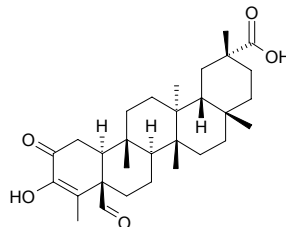
$3\beta,16\alpha$ -Dihydroxy-olean-12-en-28-al-3-*O*- β -*D*-glucopyranosyl-23-*O*- α -*D*-ribofuranoside $C_{41}H_{66}O_{13}$ (766.98). Amorphous powder. **Source:** DAN TIAO CAO *Lysimachia candida*. **Ref:** 2171.

**3074 Candletoxin A**

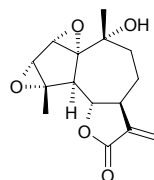
[64854-99-5] $C_{35}H_{44}O_9$ (608.74). **Source:** PO SEN DA JI *Euphorbia poissonii*. **Ref:** 658.

**3075 Cangoronine**

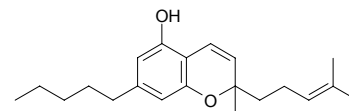
3-Hydroxy-2,24-dioxo-3-friedelen-29-oic acid $C_{30}H_{44}O_5$ (484.68). Colorless acicular crystals, mp 270°C (MeOH). **Pharm:** Supertoxic agent. **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 670.

**3076 Canin**

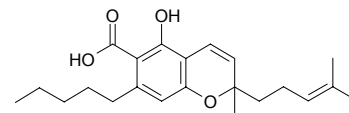
Chrysartemin A [24959-84-0] $C_{15}H_{18}O_5$ (278.31). **Pharm:** Antineoplastic; cytotoxic; insect antifeedant; plant growth regulator. **Source:** CHU AI JU *Tanacetum parthenium*, TIAN SHAN SHI *Handelia trichophylla*, *Artemisia* sp. **Ref:** 658.

**3077 Cannabichromene**

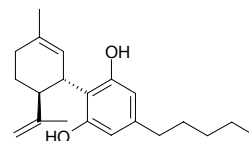
[20675-51-8] $C_{21}H_{30}O_2$ (314.47). **Pharm:** Anti-inflammatory; protects red blood cells from decomposition due to low osmotic pressure. **Source:** HUO MA REN *Cannabis sativa*. **Ref:** 658.

**3078 Cannabichromenic acid**

[20408-52-0] $C_{22}H_{30}O_4$ (358.48). **Source:** MA YE *Cannabis sativa*. **Ref:** 6.

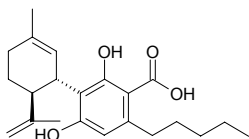
**3079 Cannabidiol**

[13956-29-1] $C_{21}H_{30}O_2$ (314.47). mp 66–67°C. **Pharm:** Anesthetic antagonist; anticonvulsant; antimicrobial. **Source:** HUO MA REN *Cannabis sativa* (seed oil: content = 0.0015%^[5508]), YIN DU DA MA *Cannabis sativa* var. *indica*, MA HUA *Cannabis sativa*. **Ref:** 1, 6, 661, 5508.

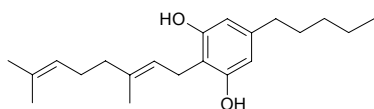


3080 Cannabidiolic acid

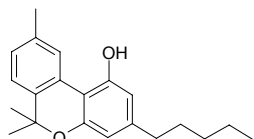
[1244-58-2] $C_{22}H_{30}O_4$ (358.48). mp 43~47°C (dec). **Pharm:** Sedative. **Source:** YIN DU DA MA *Cannabis sativa* var. *indica*, MA YE *Cannabis sativa*, MA HUA *Cannabis sativa*. **Ref:** 6, 658.

**3081 Cannabigerol**

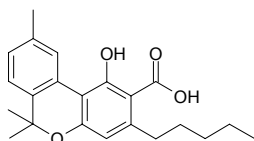
[25654-31-3] $C_{21}H_{32}O_2$ (316.49). mp 51~53°C. **Source:** MA HUA *Cannabis sativa*. **Ref:** 6.

**3082 Cannabinol**

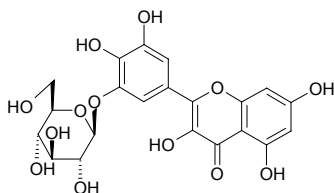
[521-35-7] $C_{21}H_{26}O_2$ (310.44). Leaflike crystals (petroleum ether), mp 76~77°C, sublimation temperature 180~190°C (bath). **Pharm:** Antineoplastic (mus, Lewis lung cancer, orl). **Source:** HUO MA REN *Cannabis sativa* (seed oil: content = 0.0018%^[5508]), MA HUA *Cannabis sativa*. **Ref:** 1, 5, 6, 661, 5508.

**3083 Cannabinolic acid**

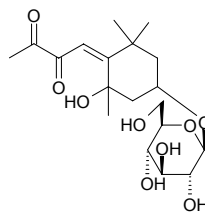
[2808-39-1] $C_{22}H_{26}O_4$ (354.45). **Source:** MA YE *Cannabis sativa*. **Ref:** 6.

**3084 Cannabicitrin**

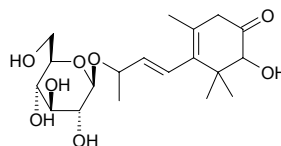
[520-14-9] $C_{21}H_{20}O_{13}$ (480.39). mp 220°C (210°C soften). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 6.

**3085 Cannabiside D**

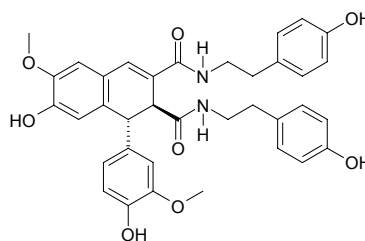
1-(2-Hydroxy-2,6,6-trimethyl-4-β-D-glucosyloxycyclohexylidene)-butane-2,3-dione $C_{19}H_{30}O_9$ (402.45). Yellow liquid. **Source:** MA YE QIAN LI GUANG *Senecio cannabifolius* (whole herb). **Ref:** 4898.

**3086 Cannabiside E**

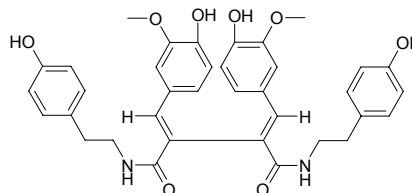
6-Hydroxy-3-(3-O-β-D-glucopyranosyl-but-1-enyl)-2,4,4-trimethyl-cyclohex-2-enone $C_{19}H_{30}O_8$ (386.45). Yellowish oil. **Source:** MA YE QIAN LI GUANG *Senecio cannabifolius* (whole herb). **Ref:** 4898.

**3087 Cannabisin D**

$C_{36}H_{36}N_2O_8$ (624.70). **Pharm:** Cytotoxic (*in vitro*, LNCaP, $IC_{50} = 81\mu\text{mol/L}$); feeding deterrent. **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.00008%dw). **Ref:** 4607.

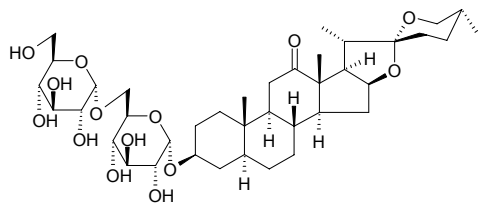
**3088 Cannabisin G**

$C_{36}H_{36}N_2O_8$ (624.7). **Pharm:** Cytotoxic (*in vitro*, LNCaP, $IC_{50} = 76\mu\text{mol/L}$). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0007%dw). **Ref:** 4607.

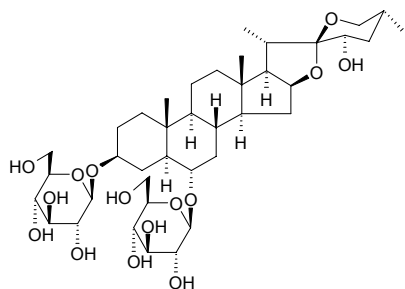


3089 Cantalanin A

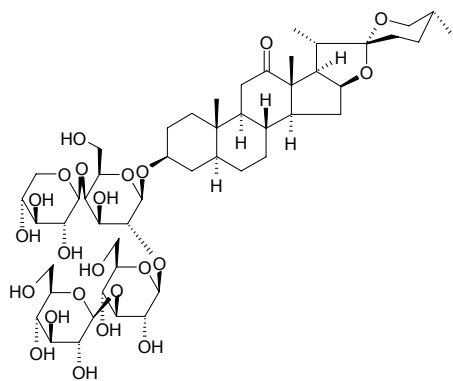
$C_{39}H_{62}O_{14}$ (754.92). mp 210–213°C, $[\alpha]_D = +75.2^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**3090 Cantalasaponin 1**

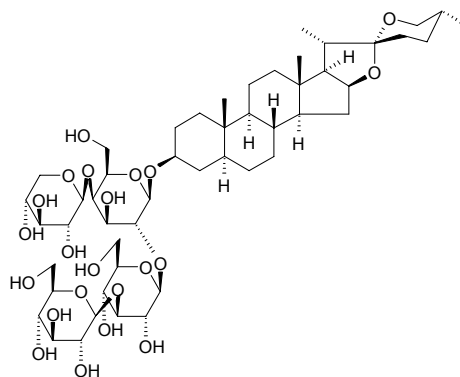
$C_{39}H_{64}O_{15}$ (772.94). mp 243–245°C, $[\alpha]_D = -51.5^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**3091 Cantalasaponin 2**

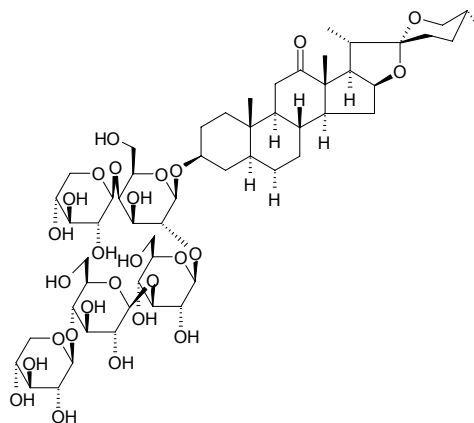
$C_{50}H_{80}O_{23}$ (1049.18). mp 287–293°C, $[\alpha]_D = -30^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**3092 Cantalasaponin 3**

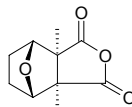
$C_{50}H_{82}O_{22}$ (1035.20). mp 298–302°C, $[\alpha]_D = -54.8^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

**3093 Cantalasaponin 4**

$C_{53}H_{88}O_{27}$ (1181.30). mp 268–271°C, $[\alpha]_D = -31.7^\circ$. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 2503.

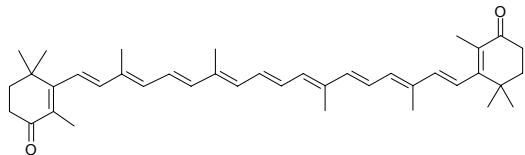
**3094 Cantharidin**

Cantharides camphor; Hexahydro-3 α ,7 α -dimethyl-4,7-epoxyisobenzofuran-1,3-dione [56-25-7] $C_{10}H_{12}O_4$ (196.20). mp 218°C, insoluble in water, very slightly soluble in acetone, chloroform, slightly soluble in ether, ethanol, soluble in acetic acid.^[5507] Pharm: Antibacterial; antineoplastic; antiprotozoal; antiviral; leukopoietic; local stimulant; LD (hmn) = 30mg; LD₅₀ (mus, acute toxicity test) = 1.71mg/kg. Source: BAN MAO *Mylabris phalerata* (dried body: content = 0.97%^[5508]); *Mylabris cichorii* (dried body: content = 1.42%^[5508]), GE SHANG TING CHANG *Epicauta gorhami*, HONG NIANG *Zi Huechys sanguinea*, QING NIANG *Zi Lytta caraganae*. Ref: 4, 6, 658, 5507, 5508.

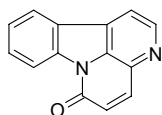


3095 Canthaxanthin

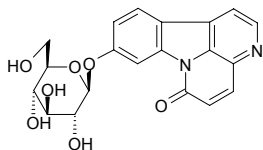
β , β -Carotene-4,4'-dione [514-78-3] C₄₀H₅₂O₂ (564.86). mp 218°C. **Pharm:** Antineoplastic (skin cancer, mammary cancer and colon cancer induced by chemical carcinogen). **Source:** HAI XIA *Penaeus orientalis*, JIN YU *Carassius auratus*. **Ref:** 6, 1582.

**3096 Canthin-6-one**

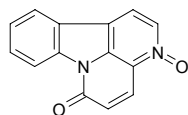
[479-43-6] C₁₄H₈N₂O (220.23). mp 159–160°C. **Pharm:** Antibacterial (*Staphylococcus aureus* and other two bacteria, MIC = 12.5–100.0µg/kg); cytotoxic (gpg horn cells); cytotoxic (*in vitro*, A549, ED₅₀ = 3.6µg/mL; MCF7, ED₅₀ = 7.3µg/mL; HIV, no significant effect)^[4728]; antimalarial (*Plasmodium falciparum* clone W2, IC₅₀ = 2.2µg/mL)^[4728]. **Source:** BO LI ZI HUA JIAO *Zanthoxylum belizense*, CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0017%dw)^[4728], CHU BAI PI *Ailanthus altissima*, ER DUN ZHUANG HUA JIAO *Zanthoxylum dipetalum*, HOU PI HUA JIAO *Zanthoxylum elephantiasis*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (total powder: content = 0.008%)^[5508], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], TUO YUAN YE HUA JIAO *Zanthoxylum ovalifolium*, YUAN CHI KU MU *Picrasma crenata*. **Ref:** 1, 12, 4728, 5508.

**3097 Canthin-6-one 9-O-β-glucopyranoside**

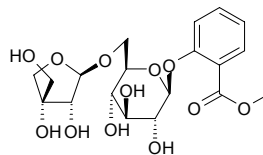
C₂₀H₁₈N₂O₇ (398.38). Yellow amorphous powder. **Pharm:** Cytotoxic (*in vitro*, A549, ED₅₀ = 4.2µg/mL; MCF7, ED₅₀ = 16.1µg/mL; HIV, no significant effect)^[4728]; antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0002%dw), *Eurycoma harmandiana* (root). **Ref:** 4728, 5137.

**3098 Canthin-6-one 3-N-oxide**

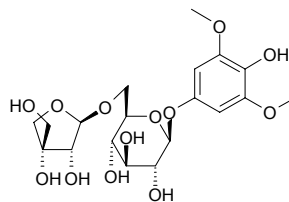
C₁₄H₈N₂O₂ (236.23). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000011%dw), *Eurycoma harmandiana* (root). **Ref:** 4728, 5137.

**3099 Canthoside A**

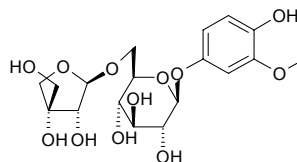
C₁₉H₂₆O₁₂ (446.41). Amorphous powder, [α]_D = -61.1° (c = 0.18, MeOH). **Source:** SI XIAO BO SHUANG YE YU GU MU *Canthium berberidifolium*. **Ref:** 1925.

**3100 Canthoside B**

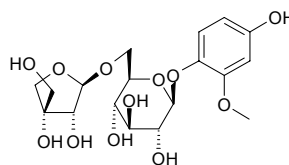
C₁₉H₂₈O₁₃ (464.43). Amorphous powder, [α]_D = -72.4° (c = 3.13, MeOH). **Source:** SI XIAO BO SHUANG YE YU GU MU *Canthium berberidifolium*. **Ref:** 1925.

**3101 Canthoside C**

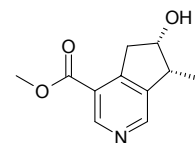
C₁₈H₂₆O₁₂ (434.40). Amorphous powder, [α]_D = -84.1° (c = 3.18, MeOH). **Source:** SI XIAO BO SHUANG YE YU GU MU *Canthium berberidifolium*. **Ref:** 1925.

**3102 Canthoside D**

C₁₈H₂₆O₁₂ (434.40). Amorphous powder, [α]_D = -73.7° (c = 1.53, MeOH). **Source:** SI XIAO BO SHUANG YE YU GU MU *Canthium berberidifolium*. **Ref:** 1925.

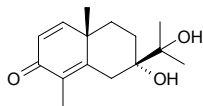
**3103 Cantleyine**

[30333-81-4] C₁₁H₁₃NO₃ (207.23). **Source:** MAO ZHU MA QIAN *Strychnos nitida*. **Ref:** 576.

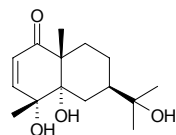


3104 Canusesnol A

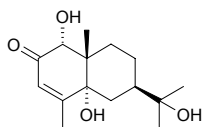
$C_{15}H_{22}O_3$ (250.34). Colorless oil, $[\alpha]_D = -37.5^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00016%dw). Ref: 4779.

**3105 Canusesnol B**

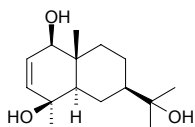
$C_{15}H_{24}O_4$ (268.36). Colorless needles, mp $>160^\circ C$, $[\alpha]_D = +3.6^\circ$ ($c = 0.9$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00054%dw). Ref: 4779.

**3106 Canusesnol C**

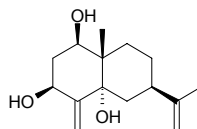
$C_{15}H_{24}O_4$ (268.36). Colorless oil, $[\alpha]_D = +33.6^\circ$ ($c = 1.0$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00048%dw). Ref: 4779.

**3107 Canusesnol D**

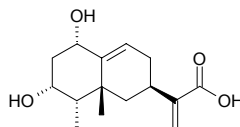
$C_{15}H_{26}O_3$ (254.37). Colorless oil, $[\alpha]_D = +165.0^\circ$ ($c = 0.5$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00028%dw). Ref: 4779.

**3108 Canusesnol E**

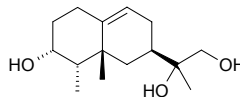
$C_{15}H_{24}O_3$ (252.36). Colorless needles, mp $143\sim 146^\circ C$, $[\alpha]_D = +62.7^\circ$ ($c = 0.5$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00065%dw). Ref: 4779.

**3109 Canusesnol F**

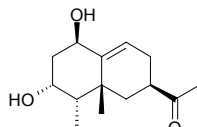
$C_{15}H_{22}O_4$ (266.34). Colorless oil, $[\alpha]_D = +35.6^\circ$ ($c = 1.1$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00013%dw). Ref: 4779.

**3110 Canusesnol G**

$C_{15}H_{26}O_3$ (254.37). Colorless oil, $[\alpha]_D = +6.2^\circ$ ($c = 0.3$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00021%dw). Ref: 4779.

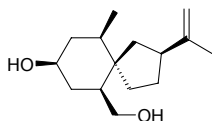
**3111 Canusesnol H**

$C_{14}H_{22}O_3$ (238.33). Colorless needles, mp $>160^\circ C$, $[\alpha]_D = +1.4^\circ$ ($c = 0.3$, MeOH). Pharm: Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00015%dw). Ref: 4779.

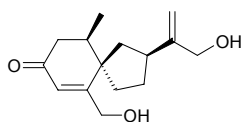


3112 Canusesnol I

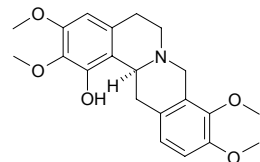
$C_{15}H_{26}O_2$ (238.37). Colorless needles, mp 119–121°C, $[\alpha]_D = +43.4^\circ$ ($c = 0.4$, MeOH). **Pharm:** Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). **Source:** HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00026%dw). **Ref:** 4779.

**3113 Canusesnol J**

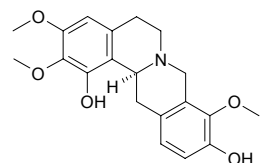
$C_{15}H_{22}O_3$ (250.34). Colorless oil, $[\alpha]_D = -25.3^\circ$ ($c = 0.4$, MeOH). **Pharm:** Cytotoxic inactive (negligible activity to inhibits hmn tumor cell replication); anti-HIV inactive (negligible activity). **Source:** HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00022%dw). **Ref:** 4779.

**3114 Capauridine**

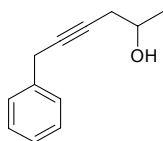
Capaurine [478-14-8] $C_{21}H_{25}NO_5$ (371.44). mp (\pm) 208°C, mp (S) 164°C. **Pharm:** Uterine stimulant. **Source:** JU HUA HUANG LIAN *Corydalis pallida*, XI SHEN SHAN ZI JIN *Corydalis pallida* var. *tenuis*, JIN HUANG JIN *Corydalis aurea*, MENG DA NA ZI JIN *Corydalis montana*, XIAO HUA ZI JIN *Corydalis micrantha*. **Ref:** 1, 6, 658.

**3115 Capaurimine**

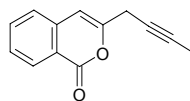
[30758-81-7] $C_{20}H_{23}NO_5$ (357.41). mp 212°C. **Source:** JU HUA HUANG LIAN *Corydalis pallida*. **Ref:** 6.

**3116 Capillanol**

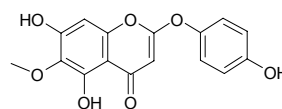
[57576-57-5] $C_{12}H_{14}O$ (174.24). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**3117 Capillarin**

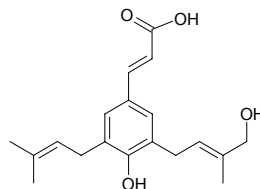
[3570-28-3] $C_{13}H_{10}O_2$ (198.22). **Source:** YIN CHEN HAO *Artemisia capillaris*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. **Ref:** 2, 660.

**3118 Capillarisin**

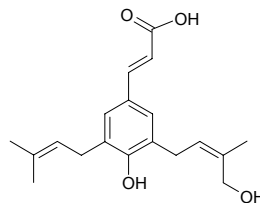
[56365-38-9] $C_{16}H_{12}O_7$ (316.27). mp 226–228°C. **Pharm:** Choleric; antagonizes antibacterial action of paraxin. **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 1, 2, 5501.

**3119 Capillartemisin A**

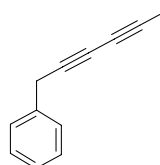
[85819-52-9] $C_{19}H_{24}O_4$ (316.40). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 1521.

**3120 Capillartemisin B**

[85819-51-8] $C_{19}H_{24}O_4$ (316.40). White needles, mp 146–148°C. **Source:** HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (bud), YIN CHEN HAO *Artemisia capillaris*. **Ref:** 1521, 4815.

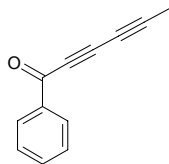
**3121 Capillene**

[520-74-1] $C_{12}H_{10}$ (154.21). bp 124°C/4mmHg. **Source:** YIN CHEN HAO *Artemisia capillaris*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. **Ref:** 2, 6, 660.

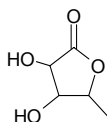


3122 Capillin

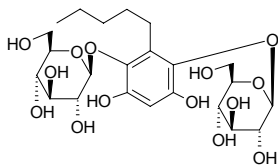
[495-74-9] $C_{12}H_8O$ (168.20). mp 81°C. Pharm: Antibacterial (original hyphomycete of skin diseases, blood red trichophyta, CIC = 0.25µg/mL). Source: MU TONG HAON *Chrysanthemum frutescens*, YIN CHEN HAO *Artemisia capillaris* (the compound was isolated from the plant by Junzô Arima, et al. in 1930)^[5505], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. Ref: 1, 2, 4, 660, 5505.

**3123 Capilliplactone**

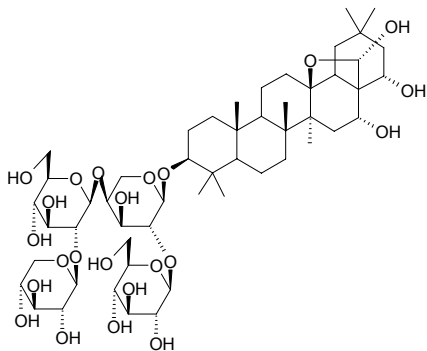
$C_5H_8O_4$ (132.12). Acicular crystals, mp 110–112°C. Source: XI GENG XIANG CAO *Lysimachia capillipes*. Ref: 778.

**3124 Capillipnin**

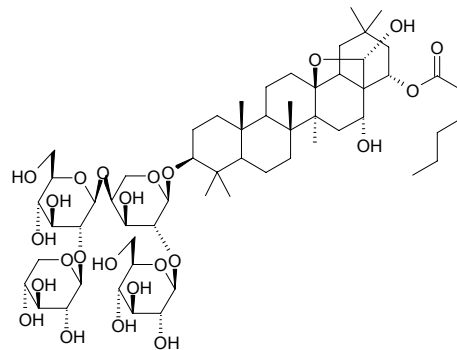
$C_{23}H_{36}O_{14}$ (536.53). White crystals, mp 128–130°C. Source: XI GENG XIANG CAO *Lysimachia capillipes*. Ref: 778.

**3125 Capillipside A**

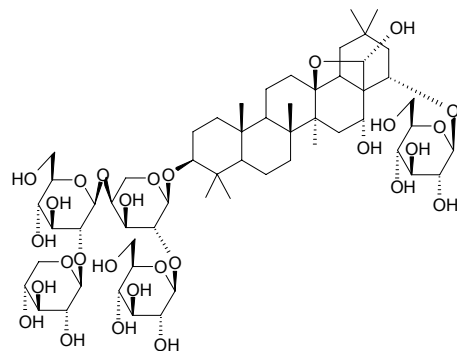
$C_{52}H_{86}O_{23}$ (1079.25). White amorphous powder, $[\alpha]_D^{20} = -26.7^\circ$ ($c = 0.50$, MeOH). Pharm: Cytotoxic inactive (hmn A-2780, $IC_{50} > 10\mu\text{g/mL}$). Source: XI GENG XIANG CAO *Lysimachia capillipes* (whole herb: yield = 0.00023%dw). Ref: 2175.

**3126 Capillipside B**

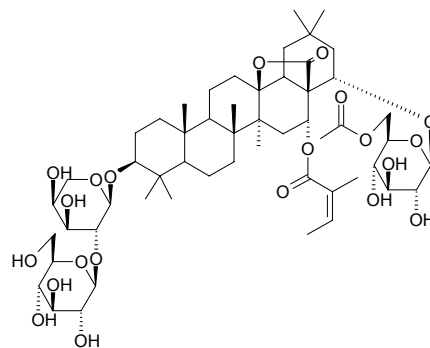
$C_{58}H_{96}O_{24}$ (1177.40). White amorphous powder, $[\alpha]_D^{20} = -23.4^\circ$ ($c = 0.55$, MeOH). Pharm: Cytotoxic (hmn A-2780, $IC_{50} = 0.1\mu\text{g/mL}$). Source: XI GENG XIANG CAO *Lysimachia capillipes* (whole herb: yield = 0.00060%dw). Ref: 2175.

**3127 Capillipside C**

$C_{58}H_{96}O_{28}$ (1241.40). White amorphous powder, $[\alpha]_D^{20} = -5.0^\circ$ ($c = 0.50$, MeOH). Pharm: Cytotoxic inactive (hmn A-2780, $IC_{50} > 10\mu\text{g/mL}$). Source: XI GENG XIANG CAO *Lysimachia capillipes* (whole herb: yield = 0.00038%dw). Ref: 2175.

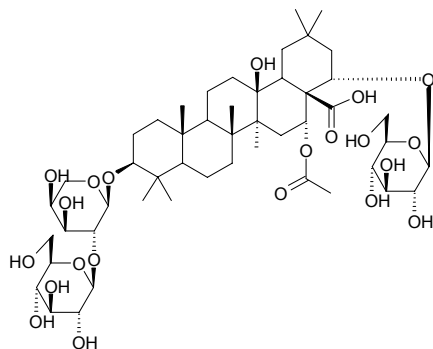
**3128 Capillipside I**

3β,22α-Dihydroxy-16α-angeloyloxy-28→13-lactone-oleanane-3-O-[β-D-glucopyranosyl-(1→2)-α-L-Arabinopyraosyl]-22-O-(6-acetyl)-β-D-glucopyranoside $C_{54}H_{84}O_{21}$ (1069.26). White amorphous powder, mp 216–218°C (MeOH), $[\alpha]_D^{20} = -25.5^\circ$ ($c = 0.010$, pyridine). Source: XI GENG XIANG CAO *Lysimachia capillipes* (whole herb). Ref: 4851.

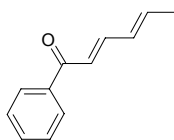


3129 Capilliposide J

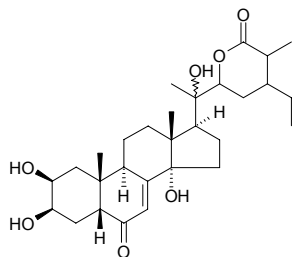
3β,13β,22α-Trihydroxy-16α-acetyloxy-oleanane-28-oic acid
3-*O*-[β-*D*-glucopyranosyl-(1→2)-*α*-*L*-arabinopyraosyl]-22-*O*-β-*D*-glucopyranoside C₄₉H₇₉O₂₁ (1004.16). White amorphous powder, mp 240~242°C (MeOH:H₂O = 9:1), [α]_D²⁰ = -22.8° (*c* = 0.050, pyridine). Source: XI GENG XIANG CAO *Lysimachia capillipes* (whole herb). Ref: 4851.

**3130 Capillon**

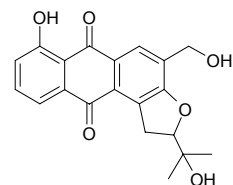
C₁₂H₁₂O (172.23). mp 69~70°C. Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 6.

**3131 Capitasterone**

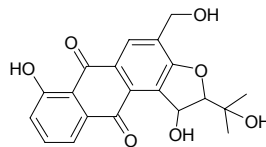
[20835-65-8] C₂₉H₄₄O₇ (504.67). mp 234~235°C. Source: MA NIU XI *Cyathula capitata*. Ref: 6, 660.

**3132 Capitellataquinone A**

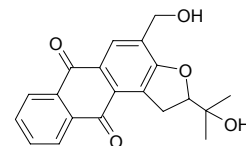
2-Hydroxymethyl-3,4-[2'-(1-hydroxy-1-methylethyl)-dihydrofuran]-8-hydroxyanthraquinone C₂₀H₁₈O₆ (354.36). Orange amorphous solid (CHCl₃), mp 203~204°C, [α]_D²⁵ = -277° (*c* = 1.3, MeOH). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata* (stem). Ref: 5280.

**3133 Capitellataquinone B**

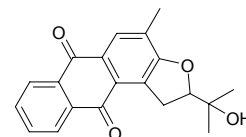
2-Hydroxymethyl-3,4-[1'-hydroxy-2'-(1-hydroxy-1-methylethyl)-dihydrofuran *o*]-8-hydroxyanthraquinone C₂₀H₁₈O₇ (370.36). Yellow amorphous solid (CHCl₃), mp 165~166°C, [α]_D²⁵ = +77.7° (*c* = 1.8, MeOH). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata* (stem). Ref: 5280.

**3134 Capitellataquinone C**

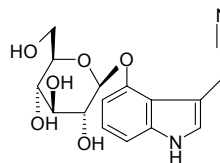
2-Hydroxymethyl-3,4-[2'-(1-hydroxy-1-methylethyl)-dihydrofuran]anthraquinone C₂₀H₁₈O₅ (338.36). Yellow oil, [α]_D²⁵ = -91.8° (*c* = 1.6, MeOH). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata* (stem). Ref: 5280.

**3135 Capitellataquinone D**

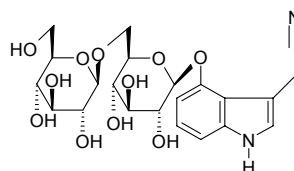
2-Methyl-3,4-[2'-(1-hydroxy-1-methylethyl)-dihydrofuran]anthraquinone C₂₀H₁₈O₄ (322.36). Yellow oil, [α]_D²⁵ = +128.6° (*c* = 1.4, MeOH). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata* (stem). Ref: 5280.

**3136 Cappariloside A**

1*H*-Indole-3-acetonitrile 4-*O*-β-glucopyranoside C₁₆H₁₈N₂O₆ (334.33). Amorphous solid, [α]_D²⁰ = -58.8° (*c* = 0.4, MeOH). Source: LAO SHU GUA *Capparis spinosa*. Ref: 1865.

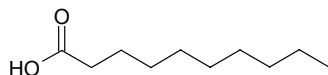
**3137 Cappariloside B**

1*H*-Indole-3-acetonitrile 4-*O*-β-(6'-*O*-β-glucopyranosyl)-glucopyranoside C₂₂H₂₈N₂O₁₁ (496.48). Amorphous solid, [α]_D²⁰ = -23.7° (*c* = 0.3, MeOH). Source: LAO SHU GUA *Capparis spinosa*. Ref: 1865.

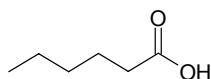


3138 Capric acid

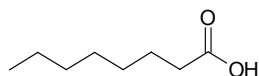
Decanoic acid [334-48-5] $C_{10}H_{20}O_2$ (172.27). **Pharm:** Raw material for synthesis. **Source:** BING LANG *Areca catechu*, CU LIU GUO *Hippophae rhamnoides*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GUA LOU *Trichosanthes kirilowii*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YE ZI RANG *Cocos nucifera*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*, *Cuphea* sp. **Ref:** 2, 658, 660.

**3139 Caproic acid**

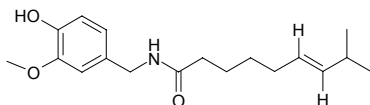
n-Hexanoic acid [142-62-1] $C_6H_{12}O_2$ (116.16). **Pharm:** Food additive. **Source:** CHAI HU *Bupleurum chinense*, CU LIU GUO *Hippophae rhamnoides*, DANG SHEN *Codonopsis pilosula*, XI YANG SHEN *Panax quinquefolium*, YE ZI RANG *Cocos nucifera*, YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 660.

**3140 Caprylic acid**

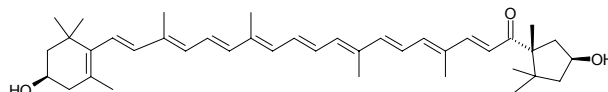
Octanoic acid [124-07-2] $C_8H_{16}O_2$ (144.22). **Pharm:** Antifungal (dermophytosis, candidiasis). **Source:** BAI GUO *Ginkgo biloba*, CHAI HU *Bupleurum chinense*, CU LIU GUO *Hippophae rhamnoides*, DANG SHEN *Codonopsis pilosula*, FU LING *Poria cocos*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XI YANG SHEN *Panax quinquefolium*, YE ZI RANG *Cocos nucifera*. **Ref:** 2, 658.

**3141 Capsaicin**

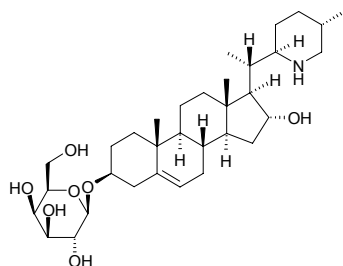
Styptysat; Mioton; Zostrix [404-86-4] $C_{18}H_{27}NO_3$ (305.42). mp 64~65°C, insoluble in cold water, easily soluble in ethanol, ether, benzene, chloroform.^[5507] **Pharm:** Anti-inflammatory (NF-κB pathway)^[4415]; antioxidant (ADP/Fe²⁺-induced liposomal lipid peroxidation, IC₅₀ = 10μmol/L)^[4710]; analgesic (has both stimulatory and desensitizing effects on sensory nerves)^[5394]. **Source:** LA JIAO *Capsicum frutescens*, HONG HAI JIAO *Capsicum annuum* (fruit: content = 2%; the compound was isolated from the plant in 1961)^[5505]. **Ref:** 4, 15, 4415, 4710, 5394, 5505, 5507.

**3142 Capsanthin**

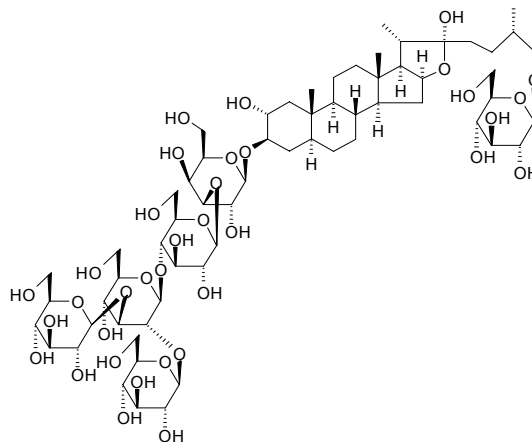
[465-42-9] $C_{40}H_{56}O_3$ (584.89). mp 175~176°C. **Pharm:** Food additive. **Source:** HONG HAI JIAO *Capsicum annuum*, JUAN DAN *Lilium tigrinum* [Syn. *Lilium lancifolium*], LA JIAO *Capsicum frutescens*, XI YE BAI HE *Lilium pumilum* [Syn. *Lilium tenuifolium*], XIAO BAI BU *Asparagus officinalis*, *Berberis* sp. **Ref:** 15.

**3143 Capsicastrine**

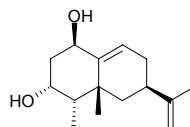
[107585-56-8] $C_{33}H_{55}NO_7$ (577.80). Colorless acicular crystals (acetone), mp 220~221°C, $[\alpha]_D^{21} = -25.5^\circ$ ($c = 0.1$, chloroform). **Pharm:** Cytotoxic (liver-cancer PLC/PRF/5 *in vitro*, ED₅₀ = 1.78μg/mL); antihepatotoxin (mus, liver damage caused by CCl₄, 0.1~3.0mg/kg). **Source:** YE HAI JIAO *Solanum capsicastrum*. **Ref:** 1056, 1088, 1136.

**3144 Capsicosin**

$C_{63}H_{106}O_{35}$ (1423.53). **Source:** LA JIAO *Capsicum frutescens*. **Ref:** 15.

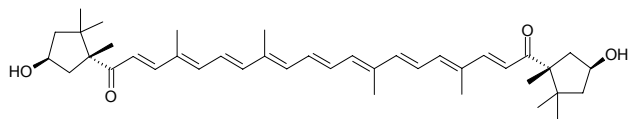
**3145 Capsidiol**

[37208-05-2] $C_{15}H_{24}O_2$ (236.36). **Pharm:** Antifungal. **Source:** HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00068%dw)^[4779], LA JIAO *Capsicum frutescens*, YAN CAO *Nicotiana tabacum*. **Ref:** 658, 4779.

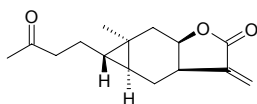


3146 Capsorubin

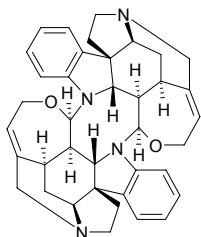
[470-38-2] C₄₀H₅₆O₄ (600.89). Pharm: Pigment. Source: HONG HAI JIAO *Capsicum annuum*, XI YE BAI HE *Lilium pumilum* [Syn. *Lilium tenuifolium*]. Ref: 658.

**3147 Carabrone**

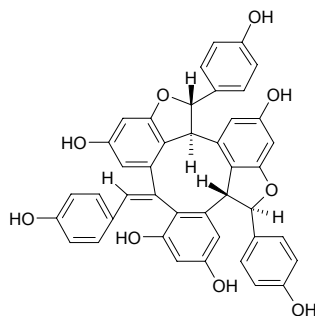
[1748-81-8] C₁₅H₂₀O₃ (248.32). mp (+) 90–91°C, (±) 89–91°C. Pharm: CNS activity (causes convulsion and death in mus in large dose). Source: DA HUA JIN WA ER *Carpesium eximum*, TIAN MING JING *Carpesium abrotanoides*, TIAN MING JING GUO *Carpesium abrotanoides*. Ref: 1, 6, 660.

**3148 Caracurine V**

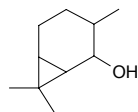
[630-87-5] C₃₈H₄₀N₄O₂ (584.77). Hydrochloride crystals, mp > 300°C (dec). Pharm: Antibacterial (*Bacillus coli* and *Bacillus pyocyaneus*); muscle relaxant; neuromuscular blocker; toxin. Source: CHANG HUA XU MA QIAN ZI *Strychnos dolichothyrsa*, A FU ZE ER MA QIAN ZI *Strychnos afzelii*. Ref: 661.

**3149 Caragaphenol A**

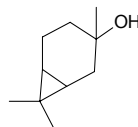
C₄₂H₃₀O₉ (678.70). Reddish amorphous powder, [α]_D²⁰ = +786.54° (c = 0.104, MeOH). Source: XIA YE JIN JI ER *Caragana stenophylla*. (root). Ref: 2557.

**3150 2-Caraneol**

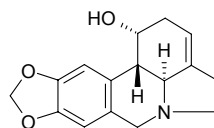
C₁₀H₁₈O (154.25). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**3151 3-Caraneol**

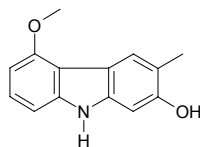
C₁₀H₁₈O (154.25). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**3152 Caranine**

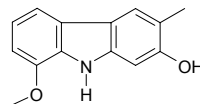
[477-12-3] C₁₆H₁₇NO₃ (271.32). Pharm: Analgesic; toxin (animal model). Source: GU TING HUA *Amaryllis belladonna*. Ref: 658.

**3153 Carbalexin A**

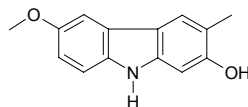
2-Hydroxy-5-methoxy-3-methylcarbazole C₁₄H₁₃NO₂ (227.27). Colorless crystals (CHCl₃), mp 178–180°C. Pharm: Antibacterial (*Staphylococcus aureus*, TCL assay, 3μg, strong activity)^[5179]; cytotoxic (BST, LC₅₀ = 36mg/L, LC₉₀ = 108mg/L)^[5179]. Source: SHAN XIAO JU *Glycosmis citrifolia* (leaf), JIU BING YE *Glycosmis pentaphylla*. Ref: 5179.

**3154 Carbalexin B**

2-Hydroxy-8-methoxy-3-methylcarbazole C₁₄H₁₃NO₂ (227.27). Colorless crystals (CHCl₃), mp 196–198°C. Source: SHAN XIAO JU *Glycosmis citrifolia* (leaf), JIU BING YE *Glycosmis pentaphylla*. Ref: 5179.

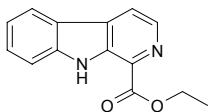
**3155 Carbalexin C**

2-Hydroxy-6-methoxy-3-methylcarbazole C₁₄H₁₃NO₂ (227.27). Colorless oil. Source: SHAN XIAO JU *Glycosmis citrifolia* (leaf), JIU BING YE *Glycosmis pentaphylla*. Ref: 5179.

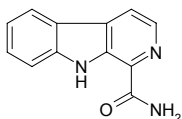


3156 1-Carboethoxy- β -carboline

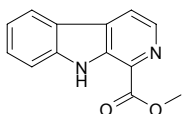
Kumujian A C₁₄H₁₂N₂O₂ (240.26). mp 123°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (total powder: content = 0.011%^[5508]), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], YUAN ZHI *Polygala tenuifolia*. Ref: 12, 538, 5508.

**3157 Carboline-1-carboxylic acid, amide**

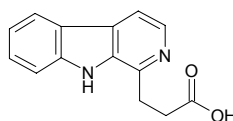
[38940-60-2] C₁₂H₉N₃O (211.23). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178.

**3158 β -Carboline-1-carboxylic acid, methyl ester**

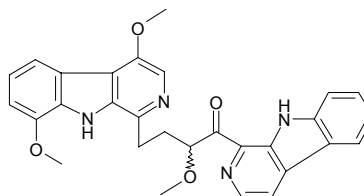
Kumujian B C₁₃H₁₀N₂O₂ (226.24). White acicular crystals (0.05mmHg, 130°C sublimation), mp 166°C; yellow acicular crystals (methanol), mp 168–169°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus* 209P, *Bacillus subtilis* 6633, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*, *Diplococcus pneumoniae*, hemolytic β -Streptococcus); antileishmanial; antifungal (*Aspergillus niger*). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000019%dw), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], YUAN ZHI *Polygala tenuifolia*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (powder: content scope of 5 origins = 0.002%–0.234%, mean content = 0.080%^[5508]), YUAN CHI KU MU *Picrasma crenata*, MA LA BA CHU *Ailanthus malabarica*, DI SHI WU TAN *Nauclea diderrichii*. Ref: 12, 538, 661, 2178, 4728, 5501, 5508.

**3159 β -Carboline-1-propionic acid**

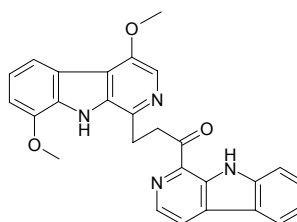
[89915-39-9] C₁₄H₁₂N₂O₂ (240.26). Pharm: Cytotoxic (*in vitro*, MCF7, ED₅₀ > 20 μ g/mL; HIV, no significant effect)^[4728]; antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0001%dw), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 4728.

**3160 1-(β -Carbolin-1-yl)-4-(4,8-dimethoxy- β -carbolin-1-yl)-2-methoxybutan-1-one**

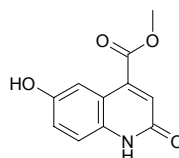
Picrasidine C [88142-61-4] C₂₉H₂₆N₄O₄ (494.55). Yellowish granular crystals (methanol). Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 51 μ mol/L). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1008, 1025, 1198, 1521.

**3161 1-(β -Carbolin-1-yl)-3-(4,8-dimethoxy- β -carbolin-1-yl)propan-1-one**

C₂₇H₂₂N₄O₃ (450.50). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

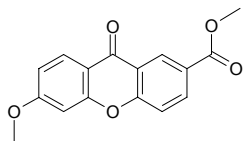
**3162 4-Carbomethoxy-6-hydroxy-2-quinolone**

C₁₁H₉NO₄ (219.2). Pale yellow needles (MeOH), mp >320°C. Pharm: Antioxidant (*in vitro*, DPPH radical scavenger, IC₅₀ = 28.9 μ g/mL, moderate activity). Source: DAO CAO *Oryza sativa* (aleurone layer). Ref: 3098.

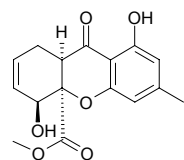


3163 2-Carbomethoxy-6-methoxyxanthone

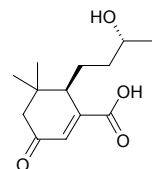
$C_{16}H_{12}O_5$ (284.27). Colorless crystals, mp 154–156°C. Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 5112.

**3164 (4S,4aR,9aR)-4a-Carbomethoxy-1,4,4a,9a-tetrahydro-4,8-dihydroxy-6-methylxanthone**

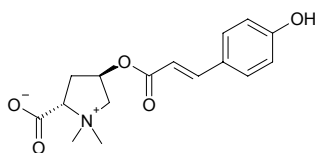
EQ-7 $C_{16}H_{16}O_6$ (304.30). White powder, $[\alpha]_D^{25} = +31.4^\circ$ ($c = 0.087$, MeOH). Source: *Gelasinospora santi-florii*. Ref: 2103.

**3165 13-Carboxy-blumenol C**

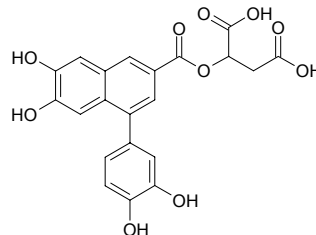
$C_{13}H_{20}O_4$ (240.30). Colorless gum, $[\alpha]_D^{25} = +57.76^\circ$ ($c = 0.29$, MeOH). Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 2489.

**3166 (2S,4R)-2-Carboxy-4-(E)-p-coumaroyloxy-1,1-dimethylpyrrolidinium inner salt**

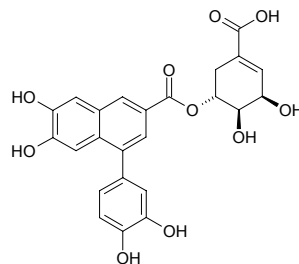
$C_{16}H_{19}NO_5$ (305.33). Colorless plates (MeOH:MeCN = 1:2), mp 239–241°C, $[\alpha]_D^{20} = +3.9^\circ$ ($c = 0.1$, MeOH). Pharm: Antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 64.4\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 9.1\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$); cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$). Source: ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 5009.

**3167 3-Carboxy-6,7-dihydroxy-1-(3',4'-dihydroxyphenyl)-naphthalene-9,2''-O-malic acid ester**

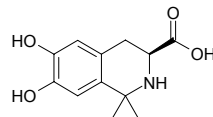
$C_{21}H_{16}O_{10}$ (428.36). $[\alpha]_D^{20} = -7.5^\circ$ ($c = 0.28$). Source: LIE E TAI *Chiloscyphus polyanthus*, WAN QU ZHI YE TAI *Lepidozia incurvata*, XIN XING SHEN YE YE TAI *Jungermannia exsertifolia* ssp. *cordifolia*. Ref: 2420.

**3168 3-Carboxy-6,7-dihydroxy-1-(3',4'-dihydroxyphenyl)-naphthalene-9,5''-O-shikimic acid ester**

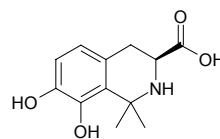
$C_{24}H_{20}O_{10}$ (468.36). $[\alpha]_D^{20} = -14.0^\circ$ ($c = 0.88$). Source: LIE E TAI *Chiloscyphus polyanthus*, WAN QU ZHI YE TAI *Lepidozia incurvata*, XIN XING SHEN YE YE TAI *Jungermannia exsertifolia* ssp. *cordifolia*. Ref: 2420.

**3169 (-)-3-Carboxy-1,1-dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline**

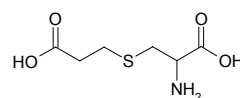
$C_{12}H_{15}NO_4$ (237.26). Viscous mass, $[\alpha]_D^{35} = -155.3^\circ$ ($c = 0.07$, MeOH). Source: CI YANG LI DOU *Mucuna pruriens* (seed). Ref: 3857.

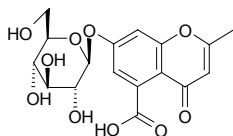
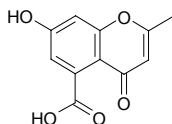
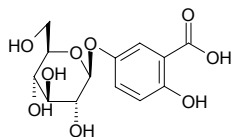
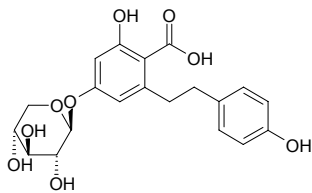
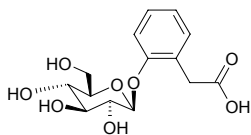
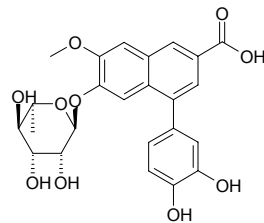
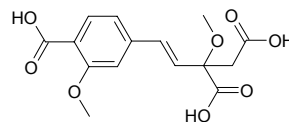
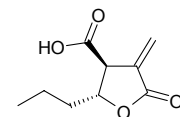
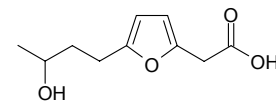
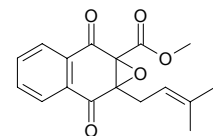
**3170 (-)-3-Carboxy-1,1-dimethyl-7,8-dihydroxy-1,2,3,4-tetrahydroisoquinoline**

$C_{12}H_{15}NO_4$ (237.26). Viscous mass, $[\alpha]_D^{35} = -144.2^\circ$ ($c = 0.01$, MeOH). Source: CI YANG LI DOU *Mucuna pruriens* (seed). Ref: 3857.

**3171 S-(2-Carboxyethyl)-L-cysteine**

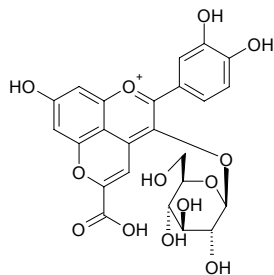
$C_6H_{11}NO_4S$ (193.22). mp 218°C. Source: HE HUAN PI *Albizia julibrissin*. Ref: 6.



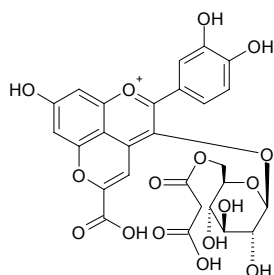
3172 5-Carboxy-7-glucosyloxy-2-methyl-benzopyran- γ -oneC₁₇H₁₈O₁₀ (382.33). Source: DA HUANG *Rheum officinale*. Ref: 2.**3173 5-Carboxy-7-hydroxy-2-methyl-benzopyran- γ -one**C₁₁H₈O₅ (220.18). Source: DA HUANG *Rheum officinale*. Ref: 2.**3174 3-Carboxy-4-hydroxy-phenoxy glucoside**C₁₃H₁₆O₉ (316.27). Source: HUANG LIAN *Coptis chinensis*. Ref: 2.**3175 2-Carboxyl-3,4'-dihydroxy-5- β -D-xylopyranosyloxybibenzyl**C₂₀H₂₂O₉ (406.39). Amorphous yellowish color, >205°C (glass transition), $[\alpha]_D^{20} = -22^\circ$ ($c = 1.32$, MeOH). Pharm: Antioxidant inactive (DPPH scavenger, IC₅₀ > 200 μ g/mL; control Ascorbic acid, IC₅₀ = (2.49 \pm 0.32) μ g/mL; Caffeic acid, IC₅₀ = (1.78 \pm 0.03) μ g/mL; Chlorogenic acid, IC₅₀ = (1.28 \pm 0.38) μ g/mL). Source: SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). Ref: 5307.**3176 2-Carboxymethylphenol 1-O- β -D-glucopyranoside**C₁₄H₁₈O₈ (314.29). Tan amorphous powder, $[\alpha]_D^{20} = -30.5^\circ$ ($c = 0.7$, MeOH). Source: AN MO LE *Phyllanthus emblica* (root). Ref: 3065.**3177 3-Carboxy-6-methoxy-1-(3',4'-dihydroxyphenyl)-naphthalene-7-O- α -L-rhamnopyranoside**C₂₄H₂₄O₁₀ (472.45). $[\alpha]_D^{20} = -72.0^\circ$ ($c = 0.18$). Source: LIE E TAI *Chiloscyphus polyanthus*, WAN QU ZHI YE TAI *Lepidozia incurvata*, XIN XING SHEN YE YE TAI *Jungermannia exsertifolia* ssp. *cordifolia*. Ref: 2420.**3178 2-(4-Carboxy-3-methoxystyryl)-2-methoxysuccinic acid**5-(4-Carboxy-3-methoxyphenyl)-3-methoxy-3-carboxy-4-pentenoic acid
C₁₅H₁₆O₈ (324.29). Source: XIAO DI YU *Sanguisorba minor*. Ref: 3385.**3179 (3S,4R)-3-Carboxy-2-methylene-heptan-4-olide**C₉H₁₂O₄ (184.19). mp 77–80°C, $[\alpha]_D^{25} = +18.2^\circ$ ($c = 0.22$, CHCl₃). Source: *Lasiodiplodia theobromae* (fruit). Ref: 3867.**3180 2-Carboxymethyl-4-(3'-hydroxybutyl)furan**C₁₀H₁₄O₄ (198.22). Source: YONG CHONG CAO *Cordyceps militaris*. Ref: 4784.**3181 2-Carboxymethyl-3-phenyl-2,3-epoxy-1,4-naphthoquinone**[133361-29-2] C₁₇H₁₆O₅ (300.31). Oil, $[\alpha]_D = 0^\circ$ ($c = 0.3$, methanol). Pharm: Antineoplastic (S₁₈₀ *in vivo*, EC = 5mg/(kg·d)); cytotoxic (mus, V-79 *in vitro* and *in vivo*, IC₅₀ = 1.7 μ g/mL, P₃₈₈ *in vitro* and *in vivo*, IC₅₀ = 0.12 μ g/mL, KB *in vitro* and *in vivo*, IC₅₀ = 0.7 μ g/mL). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 958, 1094.

3182 5-Carboxypyranocyanidin-3-O- β -glucopyranoside

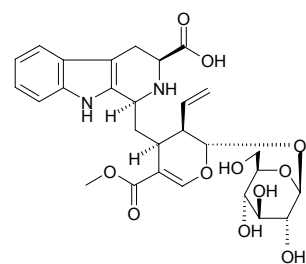
$C_{24}H_{21}O_{13}$ (517.43). Source: YANG CONG *Allium cepa*. Ref: 2042.

**3183 5-Carboxypyranocyanidin-3-O-(6''-O-malonyl- β -glucopyranoside)**

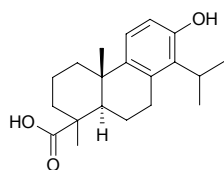
$C_{27}H_{23}O_{16}$ (603.47). Source: YANG CONG *Allium cepa*. Ref: 2042.

**3184 (5S)-5-Carboxystrictosidine**

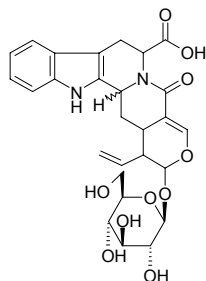
Tetrahydrodesoxycordifoline $C_{28}H_{34}N_2O_{11}$ (574.59). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0085%dw), KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.004%). Ref: 3014, 4303.

**3185 16-Carboxytotarol**

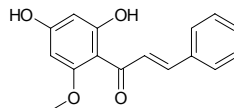
$C_{20}H_{28}O_3$ (316.44). Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6.

**3186 3 α ,3 β -Carboxyvincoside lactam**

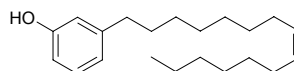
$C_{27}H_{30}N_2O_{10}$ (542.55). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DONG FANG WU TAN *Nauclea orientalis*. Ref: 2178.

**3187 Cardamonin**

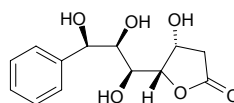
[19309-14-9] $C_{16}H_{14}O_4$ (270.29). mp 207°C. Source: CAO DOU KOU *Alpinia katsumadai* (dried closing-ripe seed: mean content = 0.48%^[5508]), DA CAO KOU *Alpinia speciosa*. Ref: 6, 5508.

**3188 Cardanol**

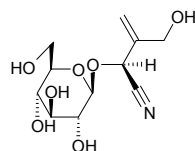
Anacanol [501-26-8] $C_{21}H_{34}O$ (302.50). Pharm: Antineoplastic (S₁₈₀); 5-lipoxygenase inhibitor; cyclooxygenase inhibitor; irritant. Source: BAI GUO *Ginkgo biloba*, XIAO RU XIANG *Schinus terebinthifolius*, DU XIAN ZI *Anacardium occidentale*. Ref: 6, 658.

**3189 Cardiobutanolide**

$C_{13}H_{16}O_6$ (268.27). White crystals (acetone), mp 189–190°C, $[\alpha]_D^{24} = +6.4^\circ$ (c = 0.28, MeOH). Source: XIN XING BAN GE NA XIANG *Goniothalamus cardiopetalus*. Ref: 2056.

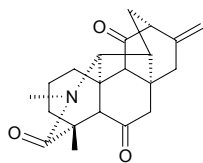
**3190 Cardiospermin**

[54525-10-9] $C_{11}H_{17}NO_7$ (275.26). Pharm: Toxin. Source: DA HUA DAO DI LING *Cardiospermum grandiflorum*, MAO DAO DI LING *Cardiospermum hirsutum*. Ref: 658.

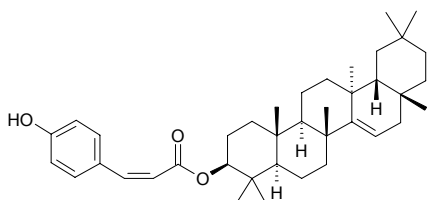


3191 Carduchorone

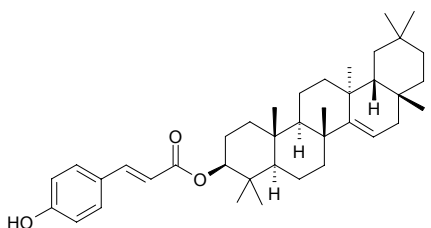
$C_{21}H_{25}NO_3$ (339.44). Source: *Delphinium carduchorum*. Ref: 2288.

**3192 cis-Careaborin**

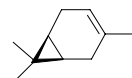
$C_{39}H_{56}O_3$ (572.88). White amorphous powder. Source: HONG HAI LAN
Rhizophora stylosa (twig), HONG SHU *Rhizophora apiculata*. Ref: 1521, 4425.

**3193 trans-Careaborin**

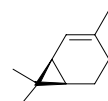
$C_{39}H_{56}O_3$ (572.88). White amorphous powder. Source: HONG HAI LAN
Rhizophora stylosa (twig), KA LI YU RUI *Careya arborea*. Ref: 1521, 4425.

**3194 Carene-3**

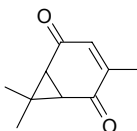
[13466-78-9] $C_{10}H_{16}$ (136.24). bp (+) 170°C, (-) 166~167°C/685mmHg.
Pharm: irritant (local). Source: DU SONG SHI *Juniperus rigida*, FENG DOU CAI *Petasites japonicus*, GAN SONG *Nardostachys chinensis*, HAI SONG ZI *Pinus koraiensis*, HOU PO *Magnolia officinalis*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], LIAN QIAO *Forsythia suspensa*, LUO LE *Ocimum basilicum*, SHAN NAI *Kaempferia galanga*, SHENG JIANG *Zingiber officinale*, *Picea* sp., *Abies* sp. Ref: 2, 11, 658.

**3195 Carene-4**

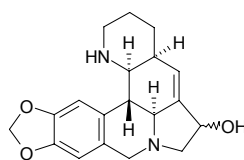
[554-61-0] $C_{10}H_{16}$ (136.24). Source: JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**3196 (±)-Car-3-ene-2,5-dione**

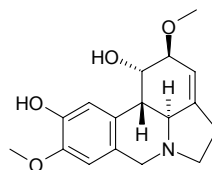
$C_{10}H_{12}O_2$ (164.21). Source: XI XIN *Asarum sieboldii*. Ref: 2.

**3197 Caribine**

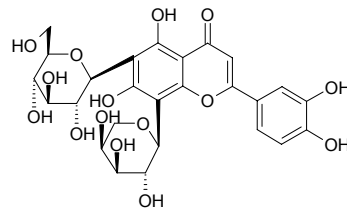
$C_{19}H_{22}N_2O_3$ (326.40). Pharm: Antineoplastic; antiviral. Source: SHA SHENG SHUI GUI JIAO *Hymenocallis arenicola*. Ref: 658.

**3198 Carinatine**

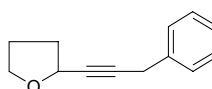
[64937-89-9] $C_{17}H_{21}NO_4$ (303.36). Pharm: Antineoplastic; antiviral. Source: FENG YU HUA *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*]. Ref: 658.

**3199 Carlinoside**

[59952-97-5] $C_{26}H_{28}O_{15}$ (580.50). Pharm: Phagostimulant (order Hemiptera insect). Source: JING MI *Oryza sativa*. Ref: 658.

**3200 Carlinoxide**

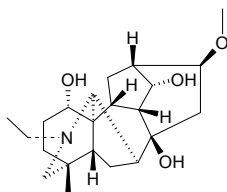
$C_{13}H_{14}O$ (186.26). Source: CHAO XIAN JI *Carlina acaulis* (the compound was isolated from the plant by Semmer Ascher in 1909)^[5505]. Ref: 5505.



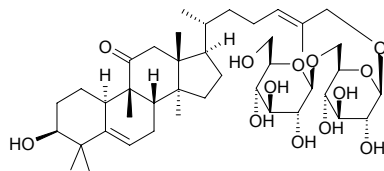
3201 Carmichaeline

Chuan-Wu-base B [39089-30-0] $C_{22}H_{35}NO_4$ (377.53). **Pharm:**

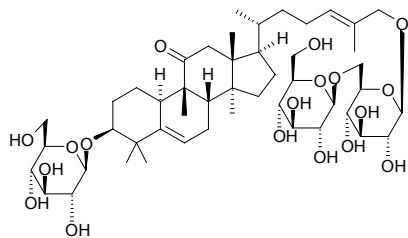
Antihypertensive (cat or dog, iv, action lasting 10–20min); similar action with talatizamine; toxin. **Source:** DUO GEN WU TOU *Aconitum karakolicum*, WU TOU *Aconitum carmichaeli*, WU ZHU FEI YAN CAO *Delphinium pentagynum*, FU ZI *Aconitum carmichaeli*. **Ref:** 2, 658.

**3202 Carnosifloside I**

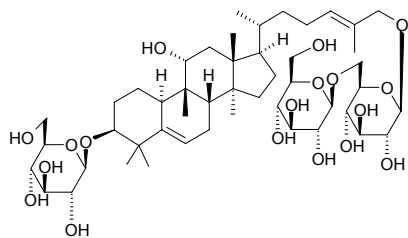
[109985-90-2] $C_{42}H_{68}O_{13}$ (781.00). **Pharm:** Anti-infective (treatment of gastrois, ulcer, upper-respiratory tract infection, urethral infection, bronchitis, pneumonia, enteritis, bacillary dysentery and sepsis). **Source:** ROU HUA XUE DAN *Hemsleya carnosiflora*. **Ref:** 658.

**3203 Carnosifloside III**

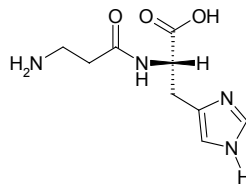
[109985-92-4] $C_{48}H_{78}O_{18}$ (943.15). **Pharm:** Anti-infective (treatment of bacillary dysentery, duodenal ulcer, enteritis, gastrois and trachitis). **Source:** ROU HUA XUE DAN *Hemsleya carnosiflora*. **Ref:** 658.

**3204 Carnosifloside VI**

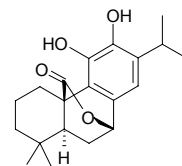
[109985-95-7] $C_{48}H_{80}O_{18}$ (945.16). **Pharm:** Analgesic. **Source:** ROU HUA XUE DAN *Hemsleya carnosiflora*. **Ref:** 658.

**3205 Carnosine**

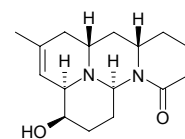
β -Alanyl-L-histidine [305-84-0] $C_9H_{14}N_4O_3$ (226.24). mp *L* (+) 246–250°C, *D* (–) 260°C (dec). **Source:** GOU ROU *Canis familiaris*, XIA TIAN GAO *Bos taurus domesticus*, MO GU *Agaricus campestris*, MAN LI YU *Anguilla japonica*, QING WA *Rana nigromaculata*; *Rana plancyi*, XIA TIAN GAO *Bos taurus domesticus*. **Ref:** 6.

**3206 Carnosol**

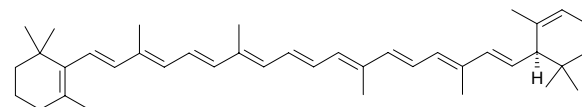
[5957-80-2] $C_{20}H_{26}O_4$ (330.43). mp 221–226°C. **Pharm:** Bitter principle. **Source:** GAN XI SHU WEI CAO *Salvia przewalskii*, MI DIE XIANG *Rosmarinus officinalis*. **Ref:** 6, 4538.

**3207 Carolinianine**

$C_{16}H_{24}N_2O_2$ (276.38). **Pharm:** Toxin. **Source:** SI KA LUO LAI NA SHI SONG *Lycopodium carolinianum* var. *affine*. **Ref:** 658.

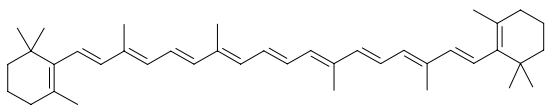
**3208 α -Carotene**

[7488-99-5] $C_{40}H_{56}$ (536.89). mp 187.5°C.^[5507] **Pharm:** Precursor of biosynthesis of vitamin A. **Source:** HU LUO BO *Daucus carota* var. *sativa*, NAN HE SHI *Daucus carota*, YU SHU SHU *Zea mays*, YOU ZONG *Elaeis guineensis*, FAN QIE *Lycopersicon esculentum*, SHI DI *Diospyros kaki*, HONG TOU CAO *Blumea lacera*, BIAN DOU *Dolichos lablab*. **Ref:** 6, 658, 5507.

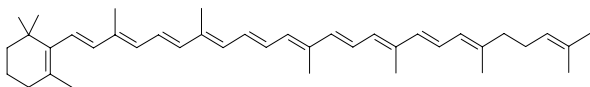


3209 β -Carotene

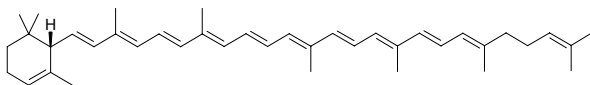
trans- β -Carotene [7235-40-7] C₄₀H₅₆ (536.89). mp 184°C.^[5507] **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 400mol ratio/32pmol TPA)^[3483, 4737, 5048, 5255]; anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100mol ratio/32pmol TPA, EBV-EA positive cells = 82.7% viability)^[4982]; ultraviolet screen; precursor in the biosynthesis to vitamin A); pigment; food additive. **Source:** BAI GUO *Ginkgo biloba* (dried ripe seed: content = 0.0002%)^[5508], BAN WEN LU HUI *Aloe vera* var. *chinensis*, FAN MU GUA *Carica papaya*, GAN SHU *Ipomoea batatas* [Syn. *Convolvulus batatas*], GOU QI ZI *Lycium chinense*, HONG HAI JIAO *Capsicum annuum*, LA JIAO *Capsicum frutescens*, MU XU *Medicago sativa*, NAN HE SHI *Daucus carota*, YI ZHU QIAN MA *Urtica dioica*, *Ulex* sp., *Dioscorea* sp., *Rosa* sp. **Ref:** 2, 15, 658, 660, 3483, 4737, 4982, 5048, 5255, 5507, 5508.

**3210 γ -Carotene**

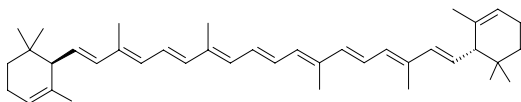
[472-93-5] C₄₀H₅₆ (536.89). mp 178°C.^[5507] **Pharm:** Precursor of biosynthesis of vitamin A); yellow pigment. **Source:** FAN MU GUA *Carica papaya*, FAN QIE *Lycopersicon esculentum*, HONG HAI JIAO *Capsicum annuum*, NAN HE SHI *Daucus carota*, SHI DI *Diospyros kaki*, YU SHU SHU *Zea mays*, *Cuscuta* sp. **Ref:** 6, 658, 5507.

**3211 δ -Carotene**

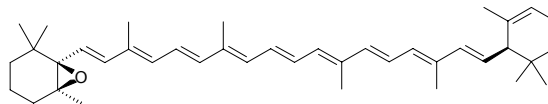
[472-92-4] C₄₀H₅₆ (536.89). **Source:** CU LIU GUO *Hippophae rhamnoides*, XIAO JIN ZHAN HUA *Calendula arvensis*, HAN LIAN HUA *Tropaeolum majus*, NAN HE SHI *Daucus carota*. **Ref:** 658.

**3212 ϵ -Carotene**

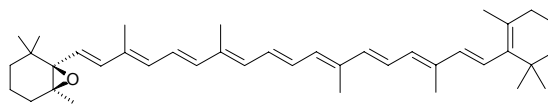
[472-89-9] C₄₀H₅₆ (536.89). mp 199~201°C. **Source:** HU LUO BO *Daucus carota* var. *sativa*. **Ref:** 6.

**3213 α -Carotene-5,6-epoxide**

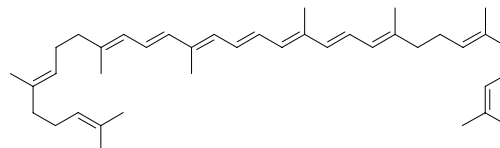
[37721-41-8] C₄₀H₅₆O (552.89). **Source:** NAN FANG TU SI ZI *Cuscuta australis*. **Ref:** 6, 660.

**3214 β -Carotene-5,6-epoxide**

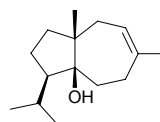
[1923-89-3] C₄₀H₅₆O (552.89). **Pharm:** Precursor to biosynthesis of vitamin A. **Source:** FAN MU GUA *Carica papaya*, TIAN CHENG *Citrus sinensis*, KUAN DONG HUA *Tussilago farfara*, MANG GUO *Mangifera indica*, *Malus* sp., *Forsythia* sp. **Ref:** 658.

**3215 ζ -Carotene**

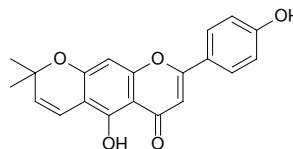
[13587-06-9] C₄₀H₆₀ (540.92). mp 38~42°C. **Pharm:** Yellow pigment. **Source:** FAN MU GUA *Carica papaya*, FAN QIE *Lycopersicon esculentum*, HU LUO BO *Daucus carota* var. *sativa*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], MEI ZHOU SUAN GUO LUO *Vaccinium macrocarpon*, YU SHU SHU *Zea mays*. **Ref:** 6.

**3216 Carotol**

[465-28-1] C₁₅H₂₆O (222.37). bp (+) 126°C/2.5mmHg. **Source:** HU LUO BO ZI *Daucus carota* var. *sativa*, HE SHI FENG *Daucus carota*, NAN HE SHI *Daucus carota*. **Ref:** 6, 660.

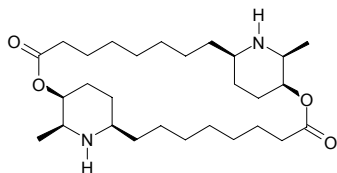
**3217 Carpachromene**

C₂₀H₁₆O₅ (336.35). **Source:** *Erythrina vogelii*. **Ref:** 4421.

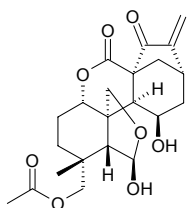


3218 Carpine

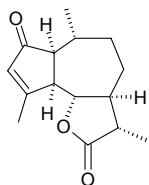
[3463-92-1] $C_{28}H_{50}N_2O_4$ (478.72). mp 119~120°C. **Pharm:** Analgesic (anaesthetic to skeletal muscle, skeletal muscle relaxant); antineoplastic (L₁₂₁₀); antiprotozoal (amoeba, protozoan); antihypertensive (rbt); makes heart stop in period of relaxation (frog and rbt, *in vitro*); toxin (paralyses CNS). **Source:** HU LU BA *Trigonella foenum-graecum*, FAN MU GUA *Carica papaya*. **Ref:** 1, 5, 6.

**3219 Carpalasionin**

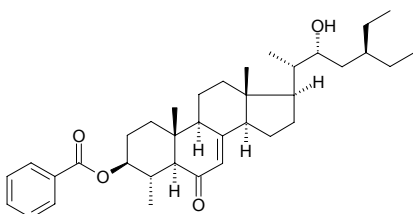
[83150-97-4] $C_{22}H_{28}O_8$ (420.46). mp 287~288°C, $[\alpha]_D^{27} = -122.3^\circ$ ($c = 0.19$, MeOH). **Source:** CU GUO XIANG CHA CAI *Isodon lasiocarpa*. **Ref:** 4067.

**3220 Carpesia lactone**

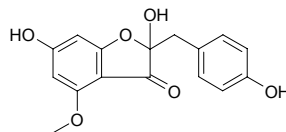
[82460-83-1] $C_{15}H_{20}O_3$ (248.32). bp 195°C/4mmHg. **Pharm:** Bidirectional action to CNS (mus, first excitation then inhibition, causes paroxysm convulsion and death in high dose, inhibits respiration of cerebral tissue); antipyretic (rbt); hypnotic (marked synergistic effect with barbitone medicines); LD₅₀ (mus, ip) = 100mg/kg. **Source:** TIAN MING JING *Carpesium abrotanoides*, TIAN MING JING GUO *Carpesium abrotanoides*. **Ref:** 1, 6, 660.

**3221 Carpesterol**

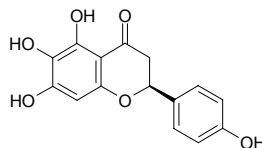
[31077-78-8] $C_{37}H_{54}O_4$ (562.84). mp 248°C. **Pharm:** Antihepatotoxin (mus, 10mg/kg, due to carbon tetrachloride); anti-inflammatory. **Source:** HUANG GUO QIE *Solanum xanthocarpum*. **Ref:** 6, 1521, 1830.

**3222 Carpusin**

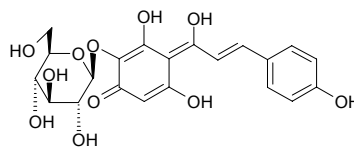
Marsupin $C_{16}H_{14}O_6$ (302.29). Whitish crystals. **Pharm:** Antioxidant (DPPH radical scavenger, IC₅₀ = 4.7μg/mL; control Ascorbic acid, IC₅₀ = 3.9μg/mL). **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.028%dw). **Ref:** 4711.

**3223 Carthamidin**

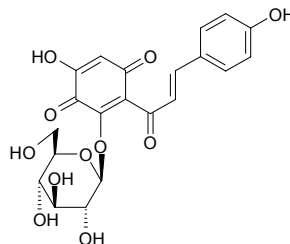
[479-54-9] $C_{15}H_{12}O_6$ (288.26). **Source:** BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], HONG HUA *Carthamus tinctorius*. **Ref:** 2, 5501.

**3224 Carthamin**

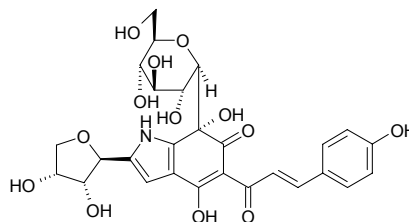
[36338-96-2] $C_{21}H_{22}O_{11}$ (450.40). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 2.

**3225 Carthamone**

[86579-00-2] $C_{21}H_{20}O_{11}$ (448.39). **Pharm:** Pigment. **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 2, 658.

**3226 Cartormin**

$C_{27}H_{29}NO_{13}$ (575.53). mp > 230°C. **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 9.

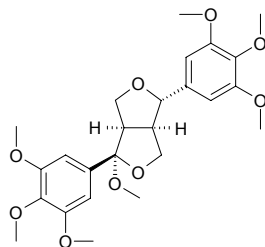


3227 Caruilignan A

$C_{25}H_{32}O_9$ (476.53). Amorphous powder, $[\alpha]_D^{24} = +61.6^\circ$ ($c = 0.83$, $CHCl_3$).

Pharm: Cytotoxic (Meth-A, $ED_{50} = 6.5\mu g/mL$, LLC, $ED_{50} > 10\mu g/mL$).

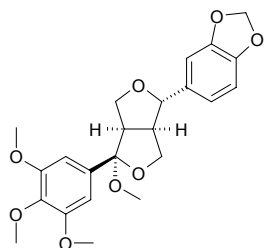
Source: QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**3228 Caruilignan B**

$C_{25}H_{26}O_8$ (430.46). Amorphous powder, $[\alpha]_D^{24} = +78.8^\circ$ ($c = 0.51$, $CHCl_3$).

Pharm: Cytotoxic (Meth-A, $ED_{50} = 4.9\mu g/mL$, LLC, $ED_{50} > 10\mu g/mL$).

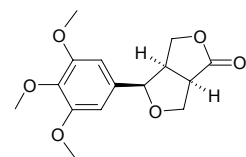
Source: QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**3229 Caruilignan C**

$C_{15}H_{18}O_6$ (294.31). Amorphous powder, $[\alpha]_D^{24} = +144.1^\circ$ ($c = 0.18$, $CHCl_3$).

Pharm: Cytotoxic (Meth-A, $ED_{50} = 10\mu g/mL$, LLC, $ED_{50} > 10\mu g/mL$). **Source:**

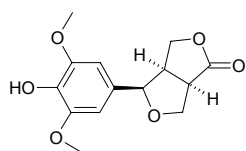
QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**3230 Caruilignan D**

$C_{14}H_{16}O_6$ (280.28). Amorphous powder, $[\alpha]_D^{24} = +126.0^\circ$ ($c = 0.13$, $CHCl_3$).

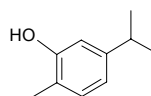
Pharm: Cytotoxic (Meth-A, $ED_{50} > 10\mu g/mL$, LLC, $ED_{50} > 10\mu g/mL$). **Source:**

QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**3231 Carvacrol**

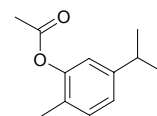
2-*p*-Cymenol [499-75-2] $C_{10}H_{14}O$ (150.22). bp 237–238°C. **Pharm:**

Anthelmintic; antibacterial; antifungal; antispasmodic (gpg ileum and rat duodenum convulsion caused by histamine, barium chloride and acetylcholine); enhances trypsin activity; irritant; antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 0.39mg/mL; *Candida albicans* KCCM11282, MFC = 0.39mg/mL; *Candida utilis* KCCM11356, MFC = 0.39mg/mL; *Cryptococcus neoformans* KCCM0564, MFC = 0.39mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 0.19mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.09mg/mL; *Blastoschyzomyces capitatus* KCCM50270, MFC = 0.39mg/mL)^[4079]. **Source:** DANG GUI *Angelica sinensis*, HA DA SHI JI NING *Orthodon hadai*, JIN YIN HUA *Lonicera japonica*, JU JIANG YE *Piper betle*, JU PI *Citrus reticulata*, QING GUO *Canarium album*, SHE XIANG CAO *Thymus vulgaris*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*] (dried aerial parts: content scope of 10 origins = 0.00%–0.50%, mean content = 0.19%^[5508]), TU XIANG RU *Origanum vulgare*, XI XIN *Asarum sieboldii*, ZHANG MU *Cinnamomum camphora*, CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*. **Ref:** 1, 2, 4079, 5508.

**3232 Carvacrol acetate**

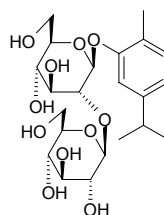
[4395-82-8] $C_{12}H_{16}O_2$ (192.26). bp 245–248°C. **Source:** SHI XIANG RU

Mosla chinensis [Syn. *Orthodon chinensis*]. **Ref:** 6.

**3233 Carvacrol 2-O-β-glucopyranosyl-(1→2)-β-glucopyranoside**

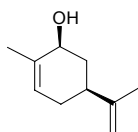
$C_{22}H_{34}O_{11}$ (474.51). $[\alpha]_D^{25} = -25.1^\circ$ ($c = 1.60$, MeOH). **Source:** XU LI YA

NIU ZHI *Origanum syriacum* (aerial parts). **Ref:** 5223.

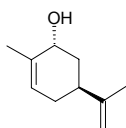


3234 cis-Carveol

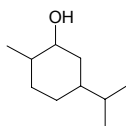
[7632-16-8] C₁₀H₁₆O (152.24). Source: HUANG HUA HAO *Artemisia annua*.
Ref: 1, 2, 660.

**3235 trans-Carveol**

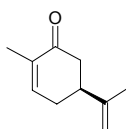
[2102-58-1] C₁₀H₁₆O (152.24). Pharm: Antiasthmatic. Source: AI YE
Artemisia argyi, HUANG HUA HAO *Artemisia annua*. Ref: 1, 660.

**3236 Carvomenthol**

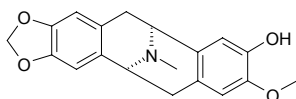
(1 α ,2 β ,5 α)-2-Methyl-5-(1-methylethyl)cyclohexanol [499-69-4] C₁₀H₂₀O
(156.27). bp (+) 101.8°C/14mmHg. Source: CHOU SHAN YANG *Orixa japonica*. Ref: 6.

**3237 Carvone**

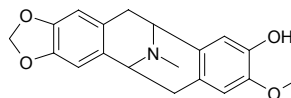
2-Methyl-5-(1-methylethenyl)-2-cyclohexen-1-one [99-49-0] C₁₀H₁₄O (150.22). bp
230°C/755mmHg, 91°C/5-6mmHg. Pharm: Antiseptic; antitussive (suppresses
cough and calms asthma); carminative (expels wind and settles pain); flavorant.
Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], CHAI
HU *Bupleurum chinense*, GE LU ZI *Carum carvi*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], KUAN YE QIANG HUO
Notopterygium forbesii [Syn. *Notopterygium franchetii*], LIU LAN XIANG
Mentha spicata, SHI LUO ZI *Anethum graveolens*, YE JU *Chrysanthemum indicum*, YIN CHEN HAO *Artemisia capillaris*, YU JIN *Curcuma aromatica*, YU
XIANG CAO *Mentha rotundifolia*, ZI CAI *Porphyra tenera*. Ref: 1, 2, 660.

**3238 (-)-Caryachine**

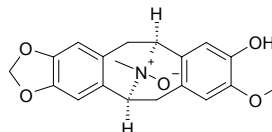
C₁₉H₁₉NO₄ (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**3239 dl-Caryachine**

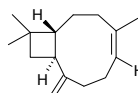
C₁₉H₁₉NO₄ (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**3240 (-)-Caryachine-N-oxide**

C₁₉H₁₉NO₅ (341.37). Colorless needles (acetone), mp >280°C, [α]_D = -86.87°
(c = 0.099, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (stem
cortex). Ref: 4160.

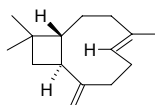
**3241 γ -Caryophyllene**

Isocaryophyllene [118-65-0] C₁₅H₂₄ (204.36). Oil, bp 125°C/14.5mmHg, [α]_D²⁴ =
-27°. Pharm: Cytotoxic (cancer cell: MCF7, GI₅₀ = (84±6) μ mol/L, PC3, GI₅₀ =
(87±8) μ mol/L, A549, GI₅₀ = (59±4) μ mol/L, DLD-1, GI₅₀ = (102±12) μ mol/L,
M4BEU hmn melanoma cell, GI₅₀ = (43±3) μ mol/L, L-929, GI₅₀ = (34±1) μ mol/L,
CT-26, GI₅₀ = (46±1) μ mol/L; normal hmn cell: fibroblasts, GI₅₀ = (124±15) μ mol/L;
control Etoposide, GI₅₀ < 1.5 μ mol/L, Chlorambucil, GI₅₀ < 50 μ mol/L)^[5391];
flavorant. Source: BAI CHANG *Acorus calamus*, BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BING PIAN *Dryobalanops aromatica*,
CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], DING
XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DU SONG SHI
Juniperus rigida, FENG DOU CAI *Petasites japonicus*, FU JU *Citrus tangemna*,
GOU JU *Poncirus trifoliata*, GUANG HUO XIANG *Pogostemon cablin* [Syn.
Mentha cablin], HU LUO BO *Daucus carota* var. *sativa*, HUANG GUO QIE
Solanum xanthocarpum, HUANG HUA HAO *Artemisia annua*, HUO XIANG
Agastache rugosus, JIA JING JIE *Nepeta cataria*, JIN QIAN PU *Acorus gramineus*,
JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], MAN SHAN
HONG *Rhododendron dauricum*, MU HAO *Artemisia japonica*, PI JIU HUA
Humulus lupulus, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*;
Artemisia caruifolia], SHAN HU JIAO *Lindera glauca*, SHE XIANG CAO
Thymus vulgaris, TIAN MING JING *Carpesium abrotanoides*, TU DANG GUI
Aralia cordata, WU SE MEI *Lantana camara*, WU YAO *Lindera strychnifolia*
[Syn. *Lindera aggregata*], XIANG ZHI LENG SHAN *Abies balsamea* (essential
oil extracted from leaves), YANG SHI CAO *Achillea millefolium*, YE XIANG
MAO *Cymbopogon goeringii*, ZHANG MU *Cinnamomum camphora*, ZHU JU
Citrus erythrosa, occurs in many plants. Ref: 658, 5391.



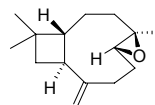
3242 β -Caryophyllene

(-)-*trans*-Caryophyllene [87-44-5] C₁₅H₂₄ (204.36). bp 129–130°C/14mmHg, bp (-) 118–119°C/9.7mmHg. **Pharm:** Flavorant. **Source:** AI YE *Artemisia argyi* (leaf: content = 0.0015%)^[5501], BAI CHANG *Acorus calamus*, BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BING PIAN *Dryobalanops aromatica*, CANG ZHU *Atractylodes lancea*, CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*] (leaf: content = 0.015%–0.020%)^[5501], DU SONG SHI *Juniperus rigida*, FENG DOU CAI *Petasites japonicus*, GOU JU *Poncirus trifoliata*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HOU PO *Magnolia officinalis*, HU LUO BO *Daucus carota* var. *sativa*, HUANG GUO QIE *Solanum xanthocarpum*, HUANG HUA HAO *Artemisia annua*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, HUO XIANG *Agastache rugosus*, JIA JING JIE *Nepeta cataria*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil), MAN SHAN HONG *Rhododendron dauricum*, MU HAO *Artemisia japonica*, PI JIU HUA *Humulus lupulus*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHAN HU JIAO *Lindera glauca*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, JIN QIAN PU *Acorus gramineus*, TIAN MING JING *Carpesium abrotanoides*, WU SE MEI *Lantana camara*, WU WEI ZI *Schisandra chinensis*, XI YANG SHEN *Panax quinquefolium*, XIANG ZHI LENG SHAN *Abies balsamea* (essential oil extracted from leaves), YANG SHI CAO *Achillea millefolium*, YE XIANG MAO *Cymbopogon goeringii*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*, ZHANG MU *Cinnamomum camphora*, ZI SU YE *Perilla frutescens* var. *arguta*, occurs in many plants. **Ref:** 1, 2, 11, 658, 660, 5129, 5391, 5501.

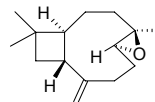
**3243 (6*R*,7*R*)-Caryophyllene oxide**

4,5-Epoxy-8(14)-caryophyllene; β -Caryophyllene epoxide [1139-30-6] C₁₅H₂₄O (220.36). [α]_D²⁵ = -65° (*c* = 0.1, CHCl₃). **Pharm:** Promotor of glutathione S-transferase (mus, liver and small intestine, prevents cancer); antifungal; antispasmodic (gpg, ileal contraction caused by histamine, IC₅₀ = 24µg/mL); antimalarial (*Plasmodium falciparum*, EC₅₀ = 345µmol/L); antibacterial (*Staphylococcus aureus*, MIC = 13.75µg/mL). **Source:** HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], XIANG

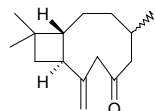
ZHI LENG SHAN *Abies balsamea* (essential oil extracted from leaves), XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YUN SHI *Caesalpinia decapetala* (leaf). **Ref:** 2, 660, 1089, 1808, 1809, 1810, 4456, 5391, 5400.

**3244 Caryophyllene oxide**

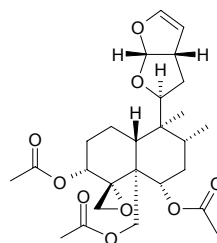
C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁵ = ±0° (*c* = 0.93, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 50µg/mL, 100µmol/L AA-induced, InRt = 0.4%, control 50µmol/L Aspirin, InRt = 100%; 10µg/mL collagen-induced, InRt = 1.0%, 100µmol/L Aspirin, InRt = 4.9%; 0.1U/mL thrombin-induced, InRt = 4.6%, 100µmol/L Aspirin, InRt = 1.7%; 2ng/mL PAF-induced, InRt = 6.5%, 100µmol/L Aspirin, InRt = 2.1%)^[5427]. **Source:** JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf). **Ref:** 4394, 5427.

**3245 3(15)-Caryophyllen-5-one**

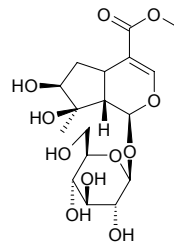
Buddlein E [68373-70-6] C₁₅H₂₄O (220.36). **Source:** DA YE ZUI YU CAO *Buddleja davidii*. **Ref:** 1521.

**3246 Caryoptin**

[50645-63-1] C₂₆H₃₆O₉ (492.57). **Pharm:** Insect antifeedant. **Source:** YOU⁽²⁾ *Caryopteris divaricata*. **Ref:** 658.

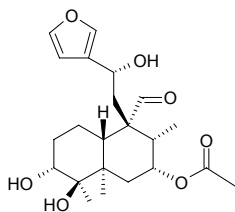
**3247 Caryoptoside**

C₁₇H₂₆O₁₁ (406.39). **Source:** XIAN SHENG MA XIAN HAO *Pedicularis muscicola*. **Ref:** 579.

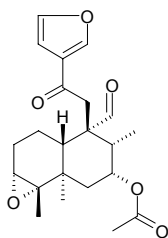


3248 Cascarillin

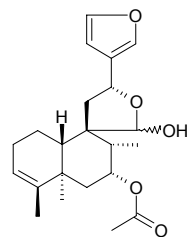
[10118-56-6] $C_{22}H_{32}O_7$ (408.50). Pharm: Aromatic bitter. Source: KU XIANG SHU *Croton eluteria*. Ref: 658.

**3249 Cascarillin B**

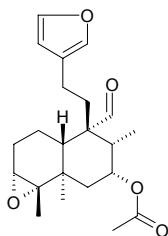
7 α -Acetoxy-3,4,15,16-diepoxy-12-oxo-cleroda-13(16),14-dien-20-al
 $C_{22}H_{28}O_6$ (388.46). Yellow resin, mp 68–70°C, $[\alpha]_D^{20} = -29.1^\circ$ ($c = 1.65$, $CHCl_3$). Source: KU XIANG SHU *Croton eluteria* (stem cortex). Ref: 5165.

**3250 Cascarillin C**

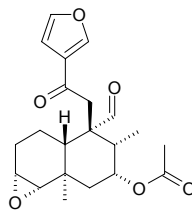
7 α -Acetoxy-15,16,12,20-diepoxy-20-hydroxy-cleroda-3,4,13(16),14-triene
 $C_{22}H_{30}O_5$ (374.48). Clear yellowish resin, mp 60–62°C, $[\alpha]_D^{20} = -47.6^\circ$ ($c = 0.227$, $CHCl_3$). Source: KU XIANG SHU *Croton eluteria* (stem cortex). Ref: 5165.

**3251 Cascarillin D**

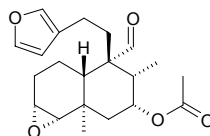
7 α -Acetoxy-3,4,15,16-diepoxy-cleroda-13(16),14-dien-20-al $C_{22}H_{30}O_5$
 (374.48). Clear yellowish resin, mp 64–66°C, $[\alpha]_D^{20} = -23.6^\circ$ ($c = 0.356$, $CHCl_3$). Source: KU XIANG SHU *Croton eluteria* (stem cortex). Ref: 5165.

**3252 Cascarinin B**

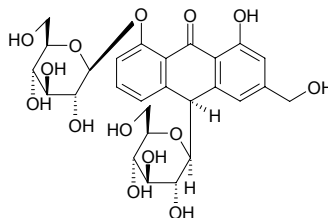
$C_{21}H_{26}O_6$ (374.44). Source: KU XIANG SHU *Croton eluteria*. Ref: 4552.

**3253 Cascarinin C**

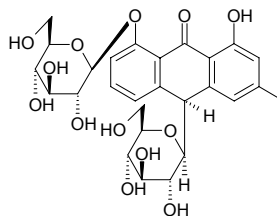
$C_{21}H_{28}O_5$ (360.45). Source: KU XIANG SHU *Croton eluteria*. Ref: 4552.

**3254 Cascaroside A**

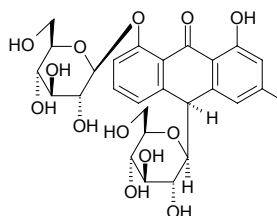
[53823-08-8] $C_{27}H_{32}O_{14}$ (580.55). Pharm: Laxative. Source: BO XI SHU LI *Rhamnus purshiana*. Ref: 658.

**3255 Cascaroside C**

[52823-09-9] $C_{27}H_{32}O_{13}$ (564.55). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.

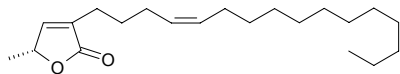
**3256 Cascaroside D**

$C_{27}H_{32}O_{13}$ (564.55). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.

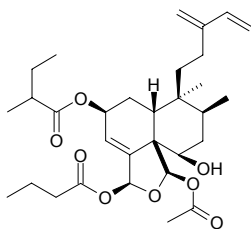


3257 Casealactone

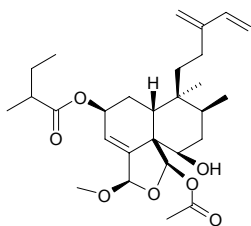
$C_{21}H_{36}O_2$ (320.52). Colorless oil, $[\alpha]_D^{25} = +20.1^\circ$ ($c = 0.15$, $CHCl_3$). **Pharm:** Cytotoxic (P388, $ED_{50} = 1.10\mu g/mL$, control Mithramycin, $ED_{50} = 0.58\mu g/mL$; A549, $ED_{50} = 6.69\mu g/mL$, Mithramycin, $ED_{50} = 0.073\mu g/mL$; HT29, $ED_{50} = 1.04\mu g/mL$, Mithramycin, $ED_{50} = 0.076\mu g/mL$)^[5421]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**3258 Caseamembrin A**

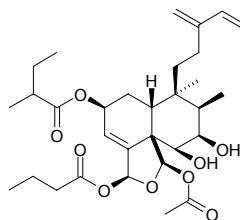
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxy-18-butanoyloxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene $C_{31}H_{46}O_8$ (546.71). Yellowish oil, $[\alpha]_D^{25} = +24.6^\circ$ ($c = 0.07$, MeOH); colorless viscous liquid, $[\alpha]_D^{20} = +26^\circ$ ($c = 0.135$, CH_2Cl_2). **Pharm:** Cytotoxic (*in vitro*, PC3, $IC_{50} = 1.5\mu mol/L$, control Paclitaxel, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 2.3\mu mol/L$, Paclitaxel, $IC_{50} = 0.031\mu mol/L$)^[3010]; antitrypanosomal (Flagellate protozoan *Trypanosoma cruzi* causing Chagas' disease, MIC = $0.59\mu g/mL$)^[4080]. **Source:** SHE XING LIN SHENG JIAO GU CUI *Casearia sylvestris* var. *lingua* (root cortex), MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = $0.0021\%dw$)^[3010]. **Ref:** 3010, 4080.

**3259 Caseamembrin B**

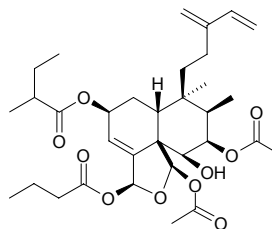
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxy-18,19-epoxy-6-hydroxy-18-methoxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene $C_{28}H_{42}O_7$ (490.64). Yellowish oil, $[\alpha]_D^{25} = +62^\circ$ ($c = 3.82$, MeOH). **Pharm:** Cytotoxic (*in vitro*, PC3, $IC_{50} = 22.2\mu mol/L$, control Paclitaxel, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 18\mu mol/L$, Paclitaxel, $IC_{50} = 0.031\mu mol/L$)^[3010]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = $0.0004\%dw$). **Ref:** 3010.

**3260 Caseamembrin C**

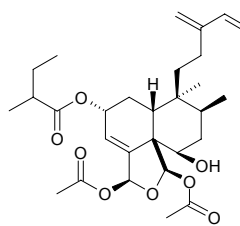
rel-(2*S*,5*R*,6*S*,7*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxy-18-butanoyloxy-18,19-epoxy-6,7-dihydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene $C_{31}H_{46}O_9$ (562.71). Yellowish oil, $[\alpha]_D^{25} = +196^\circ$ ($c = 6.6$, MeOH). **Pharm:** Cytotoxic (*in vitro*, PC3, $IC_{50} = 0.6\mu mol/L$, control Paclitaxel, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 0.8\mu mol/L$, Paclitaxel, $IC_{50} = 0.031\mu mol/L$)^[3010]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = $0.00035\%dw$). **Ref:** 3010.

**3261 Caseamembrin D**

rel-(2*S*,5*R*,6*S*,7*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-7,19-Diacetoxy-18-butanoyloxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene $C_{33}H_{48}O_{10}$ (604.74). Yellowish oil, $[\alpha]_D^{25} = +268.5^\circ$ ($c = 0.07$, MeOH). **Pharm:** Cytotoxic (*in vitro*, PC3, $IC_{50} = 2.4\mu mol/L$, control Paclitaxel, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 1.9\mu mol/L$, Paclitaxel, $IC_{50} = 0.031\mu mol/L$)^[3010]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = $0.0013\%dw$). **Ref:** 3010.

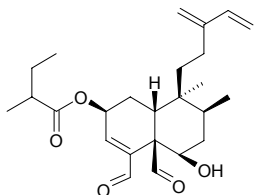
**3262 Caseamembrin E**

rel-(2*R*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-18,19-Diacetoxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene $C_{29}H_{42}O_8$ (518.65). Yellowish oil, $[\alpha]_D^{25} = -131.3^\circ$ ($c = 3.5$, MeOH). **Pharm:** Cytotoxic (*in vitro*, PC3, $IC_{50} = 2.9\mu mol/L$, control Paclitaxel, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 2.6\mu mol/L$, Paclitaxel, $IC_{50} = 0.031\mu mol/L$)^[3010]. **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = $0.0018\%dw$). **Ref:** 3010.

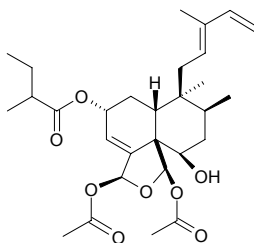


3263 Caseamembrin F

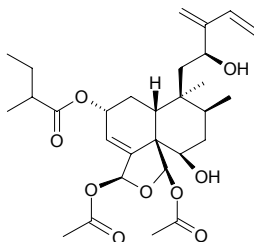
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-6-Hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene-18,19-dicarboxaldehyde C₂₅H₃₆O₅ (416.56). Yellowish oil, $[\alpha]_D^{25} = +29.1^\circ$ ($c = 0.17$, MeOH). **Pharm:** Cytotoxic (*in vitro*, PC3, IC₅₀ = 3.0 μmol/L, control Paclitaxel, IC₅₀ = 0.016 μmol/L; Hep3B, IC₅₀ = 14.7 μmol/L, Paclitaxel, IC₅₀ = 0.031 μmol/L). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = 0.0022%dw). **Ref:** 3010.

**3264 Caseamembrol A**

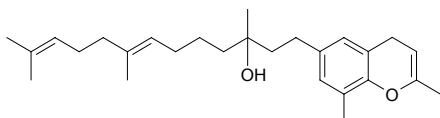
C₂₉H₄₂O₈ (518.65). Amorphous solid, $[\alpha]_D^{25} = -8.3^\circ$ ($c = 0.38$, MeOH). **Pharm:** Cytotoxic (hmn PC3 tumor cells, IC₅₀ = 2.45 μmol/L, control Taxol, IC₅₀ = 0.16 μmol/L). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea*. **Ref:** 4258.

**3265 Caseamembrol B**

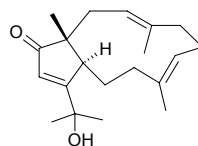
C₂₉H₄₂O₉ (534.65). Amorphous solid, $[\alpha]_D^{25} = -11^\circ$ ($c = 0.38$, MeOH). **Pharm:** Cytotoxic (hmn PC3 tumor cells, IC₅₀ = 5.66 μmol/L, control Taxol, IC₅₀ = 0.16 μmol/L). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea*. **Ref:** 4258.

**3266 Caseamemin**

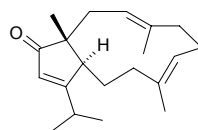
C₂₇H₄₀O₂ (396.62). Brownish oil, $[\alpha]_D^{25} = +13.8^\circ$ ($c = 0.28$, CHCl₃). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 5.55 μg/mL, control Mithramycin, ED₅₀ = 0.58 μg/mL; A549, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.073 μg/mL; HT29, ED₅₀ = 27.92 μg/mL, Mithramycin, ED₅₀ = 0.076 μg/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**3267 Casearimene A**

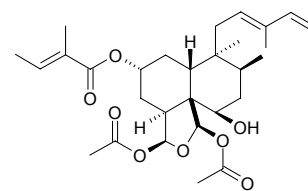
C₂₀H₃₀O₂ (302.46). Colorless needles (MeOH), mp 176–178°C, $[\alpha]_D^{25} = +257.9^\circ$ ($c = 0.48$, CHCl₃). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ > 50 μg/mL, control Mithramycin, ED₅₀ = 0.58 μg/mL; A549, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.073 μg/mL; HT29, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.076 μg/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**3268 Casearimene B**

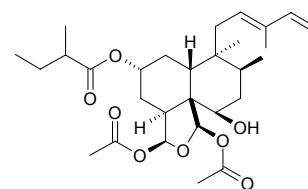
C₂₀H₃₀O (286.46). Colorless needles (MeOH), mp 108–109°C, $[\alpha]_D^{25} = +144.9^\circ$ ($c = 0.05$, CHCl₃). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ > 50 μg/mL, control Mithramycin, ED₅₀ = 0.58 μg/mL; A549, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.073 μg/mL; HT29, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.076 μg/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**3269 Casearinol A**

C₂₉H₄₂O₈ (518.65). **Pharm:** Anti-inflammatory (modulator of cytokine network: reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes). **Source:** *Casearia guianensis*. **Ref:** 4416.

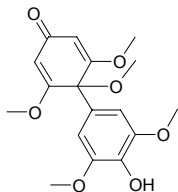
**3270 Casearinol B**

C₂₉H₄₄O₈ (520.67). **Pharm:** Anti-inflammatory (modulator of cytokine network: reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes). **Source:** *Casearia guianensis*. **Ref:** 4416.

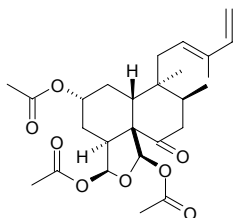


3271 Casearinone

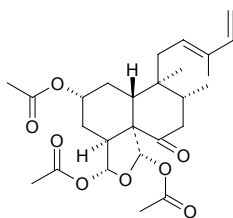
$C_{17}H_{20}O_7$ (336.34). Colorless needles (MeOH), mp 188–190°C, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.22$, $CHCl_3$). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 10.00µg/mL, control Mithramycin, ED₅₀ = 0.58µg/mL; A549, ED₅₀ > 50µg/mL, Mithramycin, ED₅₀ = 0.073µg/mL; HT29, ED₅₀ > 50µg/mL, Mithramycin, ED₅₀ = 0.076µg/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**3272 Casearinone A**

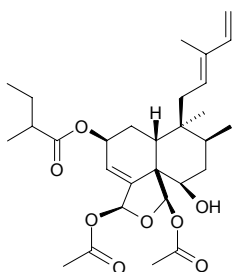
$C_{26}H_{36}O_8$ (476.57). **Pharm:** Anti-inflammatory (modulator of cytokine network: reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes). **Source:** *Casearia guianensis*. **Ref:** 4416.

**3273 Casearinone B**

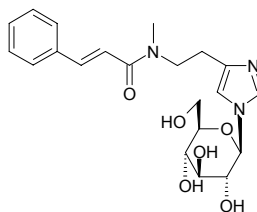
$C_{26}H_{36}O_8$ (476.57). **Pharm:** Anti-inflammatory (modulator of cytokine network: reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes). **Source:** *Casearia guianensis*. **Ref:** 4416.

**3274 Casearlucin A**

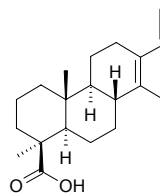
$C_{29}H_{42}O_8$ (518.65). **Pharm:** Cytotoxic (hmn PC3 tumor cells, IC₅₀ = 6.65µmol/L, control Taxol, IC₅₀ = 0.16µmol/L). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea*. **Ref:** 4258.

**3275 Casimiroedine**

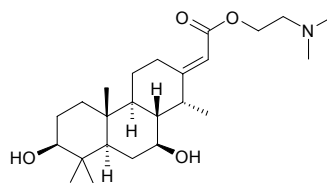
[5853-02-1] $C_{21}H_{27}N_3O_6$ (417.47). **Pharm:** Cell growth regulator. **Source:** XIANG ROU GUO *Casimiroa edulis*. **Ref:** 658.

**3276 Cassa-13(14),15-dien-19-oic acid**

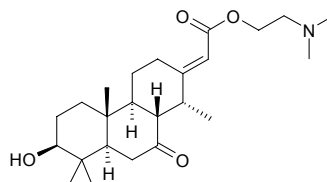
$C_{20}H_{30}O_2$ (302.46). Colorless needles, mp 175–177°C, $[\alpha]_D^{23} = -95.5^\circ$ (EtOH). **Source:** MEI GUO KE YA SHU *Vouacapoua Americana* (wood). **Ref:** 4315.

**3277 Cassaidine**

[26296-41-3] $C_{24}H_{41}NO_4$ (407.60). Prismatic crystals (acetone-ether), mp 139.5°C, $[\alpha]_D^{20} = -98^\circ$ (ethanol), $[\alpha]_D^{20} = -104^\circ$ (0.1mol/L HCl). **Pharm:** Cardiotonic; local anesthetic; LD₅₀ (anesthetic gpg iv) = (1.73±0.12)mg/kg. **Source:** JI NEI YA GE MU *Erythrophleum guineense*, XIANG YA HAI AN GE MU *Erythrophleum ivorense*, YE XIANG GE MU *Erythrophleum suaveolens*. **Ref:** 661.

**3278 Cassaine**

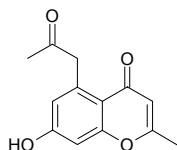
[468-76-8] $C_{24}H_{39}NO_4$ (405.58). Lustering flocculus crystals (ether), mp 142.5°C, $[\alpha]_D^{23} = -110.5^\circ$ ($c = 1$, ethanol). **Pharm:** Anesthetic; cardiotonic; LD₅₀ (anesthetic gpg iv) = (2.63±0.21)mg/kg. **Source:** JI NEI YA GE MU *Erythrophleum guineense*, XIANG YA HAI AN GE MU *Erythrophleum ivorense*. **Ref:** 661.



3279 Cassiachromone

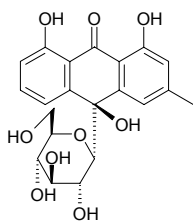
2-Methyl-5-acetonyl-7-hydroxychromone [28955-30-8] $C_{13}H_{12}O_4$ (232.24).

Colorless needles (MeOH), mp 209–210°C, $[\alpha]_D = -113^\circ$. Source: DA HUANG *Rheum officinale*, DA PENG TENG *Prana discifera*. Ref: 1437, 1521, 2504.

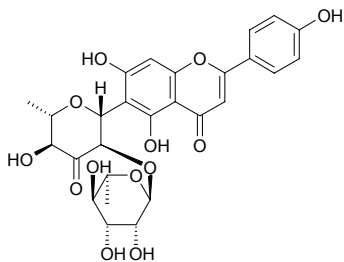
**3280 Cassialoin**

$C_{21}H_{22}O_9$ (418.40). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn.

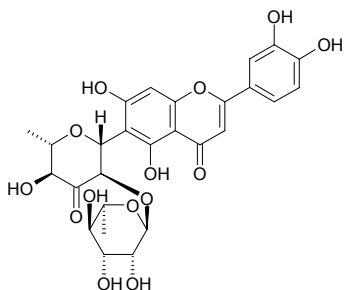
Rheum australe] (root). Ref: 4273.

**3281 Cassiaoccidentalin A**

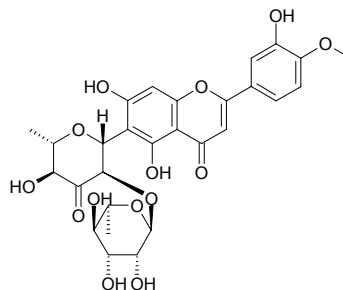
$C_{27}H_{28}O_{13}$ (560.52). Pale-yellow needles, mp 175°C (MeOH-H₂O), $[\alpha]_D = -80.1^\circ$ ($c = 1$, MeOH). Source: WANG JIANG NAN *Cassia occidentalis*. Ref: 2400.

**3282 Cassiaoccidentalin B**

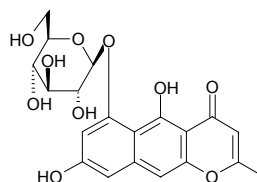
$C_{27}H_{28}O_{14}$ (576.52). Pale-yellow needles, mp 194°C (MeOH-H₂O), $[\alpha]_D = -63.6^\circ$ ($c = 1$, MeOH). Source: WANG JIANG NAN *Cassia occidentalis*. Ref: 2400.

**3283 Cassiaoccidentalin C**

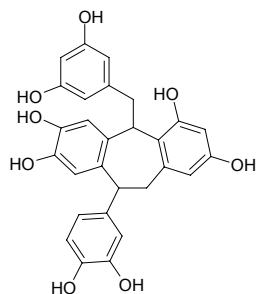
$C_{28}H_{30}O_{14}$ (590.54). Pale-yellow needles, mp 193°C (MeOH-H₂O), $[\alpha]_D = -55.6^\circ$ ($c = 1$, MeOH). Source: WANG JIANG NAN *Cassia occidentalis*. Ref: 2400.

**3284 Cassiaside**

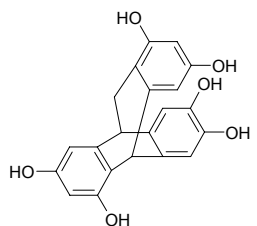
$C_{20}H_{20}O_{10}$ (420.38). Source: JUE MING ZI *Cassia tora*. Ref: 1521.

**3285 Cassigarol A**

10,11-Dihydro-2,4,7,8-tetrahydroxy-10-(3,4-dihydroxyphenyl)-5-[(3,5-dihydroxyphenyl)methyl]-5H-dibenzo[a,d]cycloheptene [106387-02-4] $C_{28}H_{24}O_8$ (488.50). Pale-brown oil. Source: JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 4068.

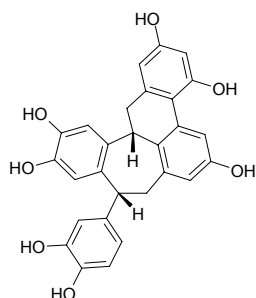
**3286 Cassigarol B**

10,11-Dihydro-5,10[1',2']benzeno-5H-dibenzo[a,d]cycloheptene-2,4,7,8,15,17-hexol [119117-76-9] $C_{21}H_{16}O_6$ (364.36). Pale-brown oil. Source: JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 4069.

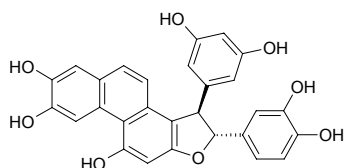


3287 Cassigarol C

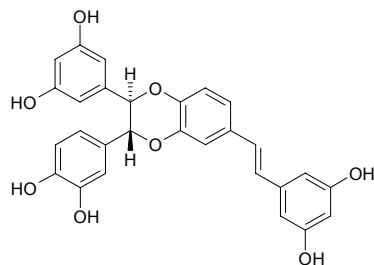
[144506-20-7] $C_{28}H_{22}O_7$ (470.48). Off-white powder, mp 240°C (dec). Source: JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 4070.

**3288 Cassigarol D**

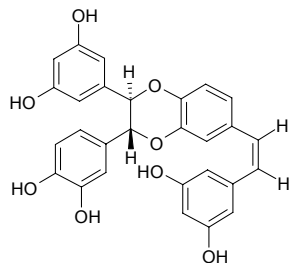
[144506-21-8] $C_{28}H_{20}O_8$ (484.47). Pale-brown oil. Source: JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 4070.

**3289 Cassigarol E**

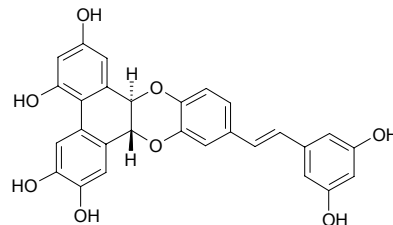
$C_{28}H_{22}O_8$ (486.48). Pharm: Antioxidant (superoxide anion scavenger ($IC_{50} = (11.49 \pm 0.18) \mu\text{mol/L}$, control (+)-Catechin $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$)^[4514]. Source: MAO CI JIN JI ER *Caragana tibetica* (stem), JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 2234, 4514.

**3290 Cassigarol F**

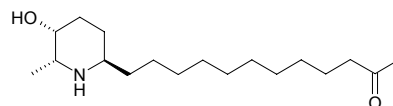
$C_{28}H_{22}O_8$ (486.48). Source: JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 2233, 2234.

**3291 Cassigarol G**

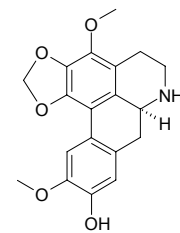
$C_{28}H_{20}O_8$ (484.47). Pharm: Antioxidant (superoxide anion scavenger ($IC_{50} = (4.89 \pm 0.13) \mu\text{mol/L}$, control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$)^[4514]. Source: MAO CI JIN JI ER *Caragana tibetica* (stem), JIA LEI JUE MING *Cassia garrettiana* (heartwood). Ref: 2234, 4514.

**3292 (-)-Cassine**

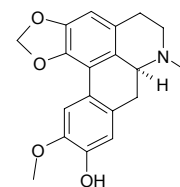
$C_{18}H_{35}NO_2$ (297.49). Pharm: Cytotoxic inactive (P_{388} , $IC_{50} > 20 \mu\text{g/mL}$, control 5-FU, $IC_{50} = 0.99 \mu\text{g/mL}$; KB, $IC_{50} > 20 \mu\text{g/mL}$, Doxorubicin, $IC_{50} = 0.57 \mu\text{g/mL}$; BC-1, $IC_{50} > 20 \mu\text{g/mL}$, Doxorubicin, $IC_{50} = 0.21 \mu\text{g/mL}$); cytotoxic (brine shrimp lethality, $IC_{50} = 0.2 \mu\text{g/mL}$, control Monocrotophos, $IC_{50} = 0.24 \mu\text{g/mL}$). Source: ZHUANG GUAN FAN XIE *Senna spectabilis* (flower). Ref: 5480.

**3293 Cassyfiline**

Cassythine [4030-51-7] $C_{19}H_{19}NO_5$ (341.37). mp 217–219°C (dec). Pharm: Antitrypanosomal and cytotoxic (*Trypanosoma brucei brucei*, $IC_{50} = 6.0 \mu\text{mol/L}$, Suramin, $IC_{50} = 0.06 \mu\text{mol/L}$; hmn cervixcarcinoma cell HeLa, $IC_{50} = 15.2 \mu\text{mol/L}$)^[4969]; tetanicum (animal model); Source: WU YE TENG *Cassytha filiformis*. Ref: 6, 658, 4969.

**3294 (+)-Cassythicine**

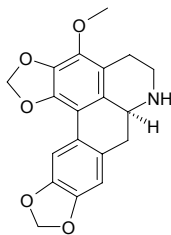
[5890-28-8] $C_{19}H_{19}NO_4$ (325.37). Pharm: Antibacterial; cytotoxic. Source: HEI HUA WU GEN TENG *Cassytha melantha*, WU MAO WU GEN TENG *Cassytha glabella*, YUAN HUA FAN LI ZHI *Annona glabra*. Ref: 658.



3295 Cassythidine

[6081-07-8] C₁₉H₁₇NO₅ (339.35). mp 206–207°C. Source: WU YE TENG

Cassytha filiformis. Ref: 6.

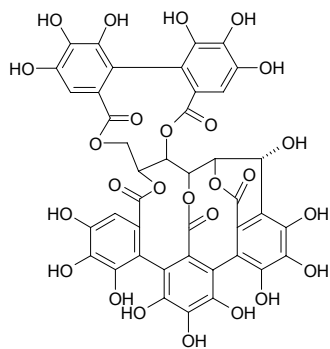
**3296 Castalagin**

[24312-00-3] C₄₁H₂₆O₂₆ (934.65). Yellowish amorphous powder, easily soluble in MeOH, Me₂CO and H₂O; colorless acicular crystals (water), mp 230°C, [α]_D = –126.9° (c = 0.9, methanol:water = 3:7). Pharm:

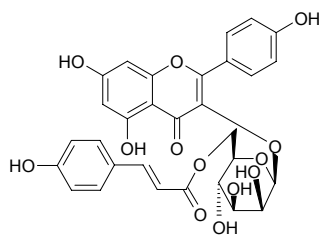
Antihypertensive (rat, iv, spontaneous hypertension); cytotoxic (malanotic carcinoma RPMI-7951, ED₅₀ = 0.79 μg/mL). Source: CU LIU GUO

Hippophae rhamnoides, FAN SHI LIU PI *Psidium guajava*, NING MENG AN YE *Eucalyptus citriodora*, TAO JIN NIANG *Rhodomyrtus tomentosa*.

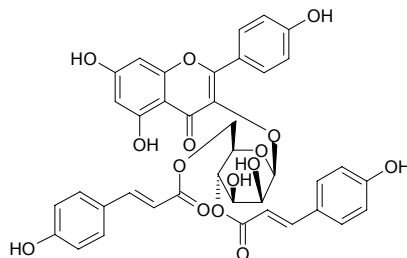
Ref: 429, 900.

**3297 Castanoside A**

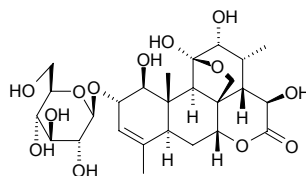
Kaempferol-3-*O*-[6"-(*E*)-*p*-coumaroyl]- α -D-mannopyranoside C₃₀H₂₆O₁₃ (594.53). Yellow grained powder, mp 247–249°C. Source: BAN LI *Castanea mollissima* (flower). Ref: 4842.

**3298 Castanoside B**

Kaempferol-3-*O*-[6",4"-di-(*E*)-*p*-coumaroyl]- α -D-mannopyranoside C₃₉H₃₂O₁₅ (740.68). Yellow powder, mp 235–238°C. Source: BAN LI *Castanea mollissima* (flower). Ref: 4842.

**3299 Casteloside B**

C₂₆H₃₈O₁₃ (558.58). Source: *Eurycoma harmandiana* (root). Ref: 5164.

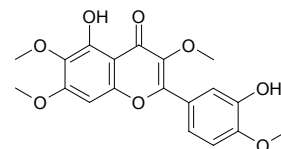
**3300 Casticin**

Vitexicarpin [479-91-4] C₁₉H₁₈O₈ (374.35). Orange crystals (CHCl₃–MeOH), mp 188–190°C, mp 188–189°C, mp 186–187°C, mp 183–184°C. Pharm:

Cytotoxic (*in vitro*, PC12, GI₅₀ = 0.114 μg/mL, control Cisplatin, GI₅₀ = 0.111 μg/mL; HCT116, GI₅₀ = 0.119 μg/mL, control Cisplatin, GI₅₀ = 0.794 μg/mL)^[4623]; cytotoxic (*in vitro*, Col2, ED₅₀ = 12.7 μg/mL; hTERT-RPE1, ED₅₀ = 0.2 μg/mL; HUVEC, ED₅₀ = 0.6 μg/mL; KB, ED₅₀ = 0.2 μg/mL; HUVEC, ED₅₀ = 0.5 μg/mL; Lu1, ED₅₀ = 0.8 μg/mL)^[4699];

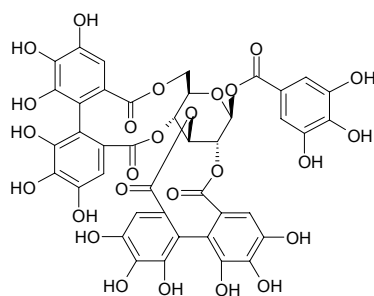
antineoplastic inactive (*in vivo* hollow fiber assay, 40 mg/kg; Lu1, KB, and LNCaP cells; *in vivo* P₃₈₈ leukemia model, 135 mg/kg)^[4699]; antiviral. Source:

DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (dried ripe fruit: yield = 0.011% dw)^[4623], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, HUANG HUA HAO *Artemisia annua* (seed), HUANG JING YE *Vitex negundo* (leaf: yield = 0.035% dw)^[4699], MAN JING ZI *Vitex trifolia* (dried ripe fruit: mean content of 5 origins = 0.126%)^[5508], MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], RI BEN JIN YAO *Chrysosplenium japonicum*, SHANG ZUO ZHOU JIN YAO *Chrysosplenium tosaense*, SA SHI MAO DI HUANG *Digitalis thapsii*. Ref: 2, 6, 562, 658, 660, 3435, 4623, 4699, 5508.

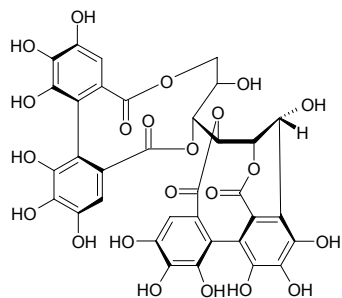


3301 Casuarictin

1-*O*-Galloylpedunculagin [79786-00-8] C₄₁H₂₈O₂₆ (936.66). **Pharm:** Antihepatotoxin (*in vitro*); antioxidant (SOD-like activity, EC₅₀ = 77.9 μmol/L, control Gallic acid, EC₅₀ = 31.7 μmol/L, *L*-Ascorbic acid, EC₅₀ = 34.6 μmol/L)^[3408]; antioxidant (DPPH scavenger, EC₅₀ = 0.40 μmol/L, control Gallic acid, EC₅₀ = 5.88 μmol/L, *L*-Ascorbic acid, EC₅₀ = 6.25 μmol/L)^[3408]. **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.047%fw)^[4695], DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DUO ZHI AN *Eucalyptus viminalis*, FAN SHI LIU GAN *Psidium guajava*, HU TAO REN *Juglans regia*, *Quercus* sp., *Rubus* sp. **Ref:** 2, 658, 3408, 4695.

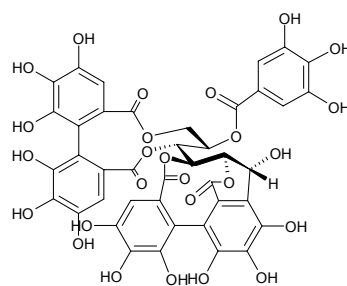
**3302 Casuariin**

5-Desgalloyl stachyurin [79786-04-2] C₃₄H₂₄O₂₂ (784.56). Brownish amorphous powder, easily soluble in MeOH and Me₂CO. **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.010%fw)^[4695], TAO JIN NIANG *Rhodomyrtus tomentosa*. **Ref:** 429, 4695.

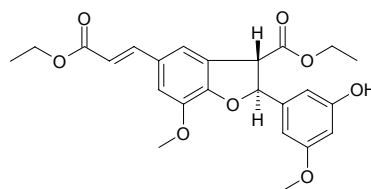
**3303 Casuarinin**

[79786-01-9] C₄₁H₂₈O₂₆ (936.66). Purity > 98%, [α]_D²⁸ = +40.2°. **Pharm:** Antioxidant (rbt, erythrocyte membrane ghost system); antioxidant (macrosome of liver cells in rat, inhibits lipid peroxidation); antioxidant (SOD-like activity, EC₅₀ = 57.7 μmol/L, control Gallic acid, EC₅₀ =

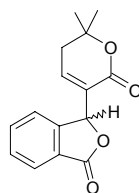
31.7 μmol/L, *L*-Ascorbic acid, EC₅₀ = 34.6 μmol/L)^[3408]; antioxidant (DPPH free radical scavenger, EC₅₀ = 0.78 μmol/L, control Gallic acid, EC₅₀ = 5.88 μmol/L, *L*-Ascorbic acid, EC₅₀ = 6.25 μmol/L)^[3408]; cytotoxic (antiproliferative, *in vitro*, MCF7, 10 μmol/L, InRt = 72.3%; IC₅₀ = 6.04 μmol/L)^[5070]; antioxidant (Protects cultured MDCK Cells from H₂O₂-Induced oxidative stress and DNA oxidative damage)^[4072]. **Source:** A JIANG LAN REN *Terminalia arjuna* (bark), DUO ZHI AN *Eucalyptus viminalis*, FAN SHI LIU GAN *Psidium guajava*, FEI YUE GUO *Feijoa sellowiana*, HU TAO REN *Juglans regia*, LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], PU⁽³⁾ TAO *Syzygium jambos*. **Ref:** 658, 3408, 4072, 5070.

**3304 Catalpafurxin**

2(*S*)-(3'-Hydroxy-5'-methoxy)-benz-3(*S*)-ethoxycarbonyl-6-*trans*-ethyl acrylate-8-methoxy-benzofuran C₂₄H₂₆O₈ (442.47). White needles (CHCl₃), mp 145~147°C. **Source:** ZI SHI *Catalpa ovata*. **Ref:** 4597.

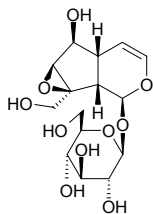
**3305 Catalpalactone**

[1585-69-9] C₁₅H₁₄O₄ (258.28). mp 105~106°C, 110~111°C. **Source:** ZI MU *Catalpa ovata* (the compound was isolated from the plant by M.Pailer, et al. in 1956)^[5505]. **Ref:** 6, 5505.



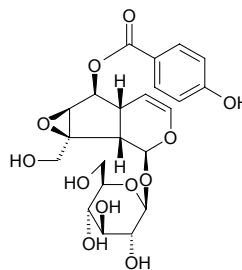
3306 Catalpol

Catalpinoside [2415-24-9] $C_{15}H_{22}O_{10}$ (362.34). mp 207–209°C (dec). **Pharm:** Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 54.8\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70\mu\text{g/mL}$)^[5251]; antileishmanial (*Leishmania donovani*, $IC_{50} = 10.4\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32\mu\text{g/mL}$)^[5251]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002\mu\text{g/mL}$)^[5251]; cytotoxic (L6 cells, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075\mu\text{g/mL}$)^[5251]; diuretic; laxative (mus, $ED_{50} = 0.32\sim 0.39\text{g/kg}$). **Source:** CHA RU SHI WAN CUO *Asystasia intrusa*, FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*] (tuberoid: content scope of 3 origins = 0.02%–1.74%, mean content = 0.80%^[5508]), JIAN QIU LUO MAO RUI HUA *Verbascum lychnites*, LIN PIAN XUAN SHEN *Scrophularia lepidota* (root), MAO PAO TONG *Paulownia tomentosa*, MAO RUI HUA *Verbascum thapsus*, SHU CE JIN ZHAN HUA *Adonis sutchuenensis*, SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (tuberoid: content scope of 2 origins = <0.01%–0.04%, mean content = 0.02%)^[5508], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (tuberoid: content scope of 18 origins = 0.774%–4.920%, mean content = 2.135%)^[5508], XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora*, ZI MU *Catalpa ovata* (stem cortex). **Ref:** 1, 2, 660, 2589, 3954, 4416, 5251, 5501, 5508.



3307 Catalposide

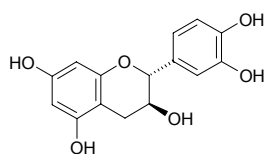
Catalpin [6736-85-2] $C_{22}H_{26}O_{12}$ (482.45). **Pharm:** Diuretic; insect antifeedant (*Lymantria disper*); pesticide (lepidopteran *Ceratomia catalpae*); laxative (mus, $ED_{50} > 0.32\sim 0.39\text{g/kg}$); anti-inflammatory (modulator of cytokine network: prevents production of TNF- α , IL-1b and IL-6 in LPS-activated macrophages ($IC_{50} \approx 50\text{ng/mL}$), possibly via NF- κ B inhibition)^[4416]. **Source:** A LA BO PO PO NA *Veronica persica* (aerial parts), HUANG JIN SHU *Catalpa speciosa*, JIAN QIU LUO MAO RUI HUA *Verbascum lychnites*, MEI GUO ZI *Catalpa bignonioides*, ZI BAI PI *Catalpa ovata*, ZI SHI *Catalpa ovata*, ZI YE *Catalpa ovata*. **Ref:** 1, 6, 4211, 4416.



3308 (+)-Catechin

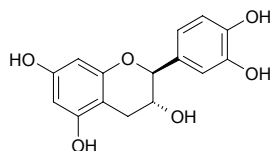
Catechic acid; Catechuic acid; Cyanidol [154-23-4] $C_{15}H_{14}O_6$ (290.28). Pale-yellow powder, mp 95–98°C, $[\alpha]_D^{20} = 17.5^\circ$ ($c = 0.3$, CHCl_3). **Pharm:** Antineoplastic; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; antiviral; antibacterial; anti-diarrheal (blocks production of indole in large intestine); anti-ulcerative (rat, gastric ulcer); anti-hepatotoxin; hemostatic; similar action with vitamin P; inhibitory activity against NFAT transcription ($IC_{50} = (22.4 \pm 0.50)\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01)\mu\text{mol/L}$)^[2536]; antioxidant (DPPH scavenger, for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} = 5.9\mu\text{mol/L}$)^[4378]; antioxidant (inhibits free-radical induced lysis of rat red blood cells and exhibits strong and dose-dependent protection of cell membrane)^[5341]; antioxidant (superoxide anion scavenger $IC_{50} = (3.67 \pm 0.14)\mu\text{mol/L}$)^[4514]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (2.1 \pm 2.5)\%$)^[4304]; inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, $\text{InRt} = 34.0\%$)^[4329]; bone marrow cell proliferation promotor ($1\sim 100\text{mg/mL}$, promotes proliferation of cultured bone marrow cells, stimulates formation of myeloid colonies and enhances the effect of IL-3 to increase the number of colony forming-units in culture (CFU-c))^[5390]; bone marrow cell proliferation promoter (*ex vivo*, model mouse of decreasing bone marrow functions, orally $100\text{mg}/(\text{kg}\cdot\text{d})$, stimulates IL-3-induced CFU-c formation of bone marrow cells)^[5390]; antioxidant (DPPH scavenger, potent activity)^[5232]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]. **Source:** A LA BO JIAO JIN HE HUAN *Acacia nilotica*, BAI GUO *Ginkgo biloba*, BING LANG *Areca catechu*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, ER CHA GOU TENG *Uncaria gambir* (dried decocted extract of trunk: content scope of 10 origins = 22.4%–33.0%; mean content = 25.9%)^[5508], HAI ER CHA *Acacia catechu* (dried decocted extract of trunk: content scope of 8 origins = 11.6%–21.0%; mean content = 17.2%)^[5508], HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, HONG NAN PI *Machilus thunbergii*, HU ZHANG *Polygonum cuspidatum*, HUA CHA BIAO *Ribes fasciculatum* var. *chinense*, HUANG HUA ER LIU *Salix caprea*, JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts), KUN MING SHAN HAI TANG *Tripterygium hypoglaucom*, LUO BU MA *Apocynum venetum*, MAO GUO QI *Acer*

nikoense (stem cortex), MI HOU LI *Actinidia arguta*, MIAN MAO GOU TENG *Uncaria lanosa*, NIU XI XI *Rumex patientia*, PU⁽²⁾ TAO *Vitis vinifera* (cell culture), RI BEN KU LIAN *Melia azedarach* var. *japonica*, SHA ZAO *Elaeagnus angustifolia*, SHAN YING TAO *Prunus tomentosa*, SUO LA MU *Salacia prinooides* [Syn. *Salacia chinensis*] (stem), TANG GU TE DA HUANG *Rheum tanguticum* (stem and rhizome: content = 0.79%)^[5508], TAO REN *Prunus persica*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (stem and rhizome: content = 0.22%)^[5508], ZHANG YE DA HUANG *Rheum palmatum* (stem and rhizome: content = 2.01%)^[5508], ZONG LV PI *Trachycarpus fortunei* (petiole and fibre of sheath, roasted petiole: mean content of 5 origins = 0.334%)^[5508], occurs in many plants. Ref: 1, 2, 6, 612, 2536, 4186, 4304, 4329, 4378, 4461, 4514, 5038, 5232, 5375, 5390, 5341, 5501, 5508.



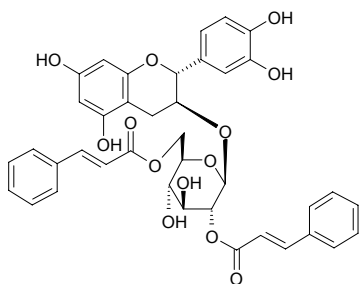
3309 (-)-Catechin

C₁₅H₁₄O₆ (290.28). **Pharm:** Anti-HIV (inhibits HIV replication, H9 Lymphocytic Cells, IC₅₀ (concentration that inhibits uninfected H9 cell growth by 50%) > 25µg/mL, EC₅₀ = 14.32µg/mL, TI = 1.75µg/mL, control AZT, IC₅₀ = 500µg/mL, EC₅₀ = 0.0007µg/mL, TI = 737000)^[4267]. **Source:** NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.



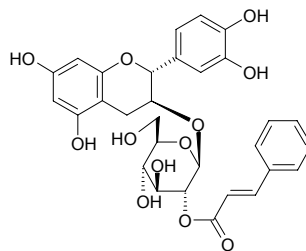
3310 (+)-Catechin-3-O-β-D-gluc(2,6-bis-cinnamoyl)-pyranoside

C₃₉H₃₆O₁₃ (712.71). Yellowish powder, [α]_D²² = +34.5° (c = 0.035, MeOH). **Source:** SAN XING HUA XU YIN JIA *Inga umbellifera* (young leaf). Ref: 3757.



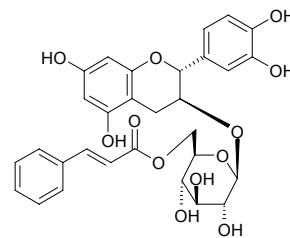
3311 (+)-Catechin-3-O-β-D-gluc(2-cinnamoyl)-pyranoside

C₃₀H₃₀O₁₂ (582.57). Yellowish powder, [α]_D²² = -39.0° (c = 0.013, MeOH). **Source:** SAN XING HUA XU YIN JIA *Inga umbellifera* (young leaf). Ref: 3757.



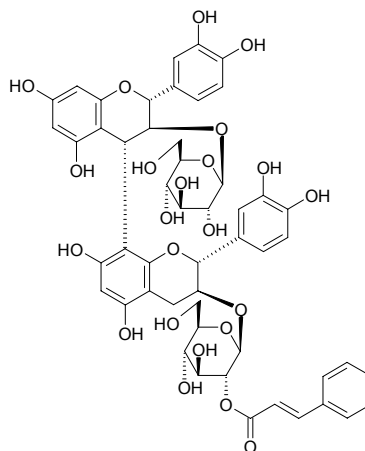
3312 (+)-Catechin-3-O-β-D-gluc(6-cinnamoyl)-pyranoside

C₃₀H₃₀O₁₂ (582.57). Pinkish powder, [α]_D²² = +44.1° (c = 0.012, MeOH). **Source:** SAN XING HUA XU YIN JIA *Inga umbellifera* (young leaf). Ref: 3757.



3313 Catechin-3-O-β-D-glucopyranosyl-(4α→8)-catechin-3-O-β-D-gluc(2-cinnamoyl)pyranoside

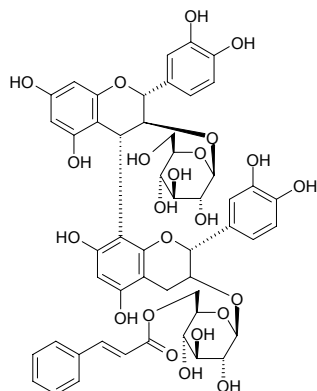
C₅₁H₅₂O₂₃ (1032.97). White powder, [α]_D²² = -56.3° (c = 0.0103, MeOH). **Source:** SAN XING HUA XU YIN JIA *Inga umbellifera* (young leaf). Ref: 3757.



3314 Catechin-3-O-β-D-glucopyranosyl-(4α→8)-epicatechin-3-O-β-D-gluco(6-cinnamoyl)pyranoside

$C_{51}H_{52}O_{23}$ (1032.97). White powder, $[\alpha]_D^{22} = -76.7^\circ$ ($c = 0.0113$, MeOH).

Source: SAN XING HUA XU YIN JIA *Inga umbellifera* (young leaf). Ref: 3757.

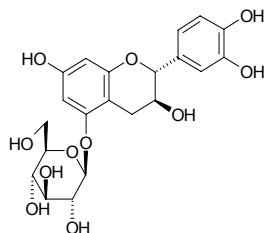


3315 (+)-Catechin-5-O-glucoside

[88126-53-8] $C_{21}H_{24}O_{11}$ (452.42). Source: DA HUANG *Rheum officinale*, HU

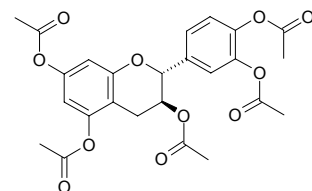
ZHANG *Polygonum cuspidatum*, TANG GU TE DA HUANG *Rheum*

tanguticum, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660, 4186.



3316 (+)-Catechin-pentaacetate

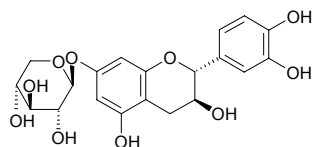
$C_{25}H_{24}O_{11}$ (500.46). Source: BAI GUO *Ginkgo biloba*. Ref: 2.



3317 Catechin 7-O-β-D-xyloside

[42830-48-8] $C_{20}H_{22}O_{10}$ (422.39). Pharm: Feeding irritant (*Scolytus*

multis-triatus). Source: MEI ZHOU YU *Ulmus americana*. Ref: 658.



3318 Catechol

1,2-Benzenediol [120-80-9] $C_6H_6O_2$ (110.11). mp 105°C, bp 240°C. Pharm:

Anticonvulsant; antifungal (dermatophyte, *Candida albicans*); antiseptic;

uterine stimulant; intestinal smooth muscle stimulant. Source: DA ZAO

Ziziphus jujuba, DENG ZHAN XI XIN *Erigeron breviscapus*, ER CHA GOU

TENG *Uncaria gambir*, HE ZI *Terminalia chebula*, LIAN XIANG SHU

Cercidiphyllum japonicum var. *sinense*, LIAN ZI *Nelumbo nucifera*, LIANG

YE HUA PI *Betula luminifera*, PU⁽²⁾ TAO *Vitis vinifera*, SI GUA ZI *Luffa*

cylindrica, TAO *Prunus persica*, XI FAN LIAN *Passiflora caerulea*, XIANG

SI CAO *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*;

Erigeron crispus]. Ref: 1, 2, 6.

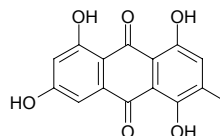


3319 Catenarin

$C_{15}H_{10}O_6$ (286.24). Pharm: Cytotoxic inactive (*in vitro*, HeLa, Vero, K562,

Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$)^[3057]. Source: YI HE

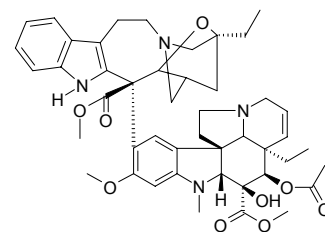
GUO *Ventilago leiocarpa* (stem). Ref: 3057.



3320 Catharanthamine

[78779-58-5] $C_{46}H_{56}N_4O_9$ (808.98). Source: CHANG CHUN HUA

Catharanthus roseus [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2.



3321 Catharanthine

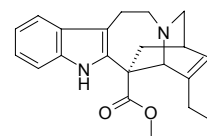
(+)-Catharanthine [2468-21-5] $C_{21}H_{24}N_2O_2$ (336.44). mp (+) 126~128°C.

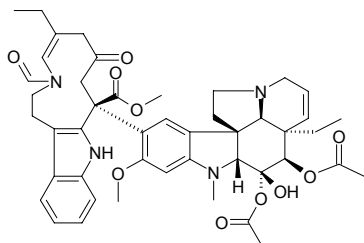
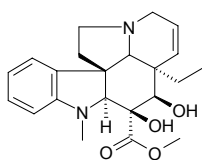
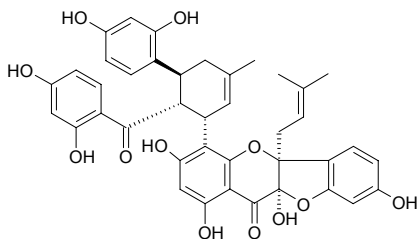
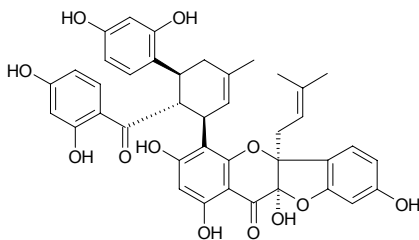
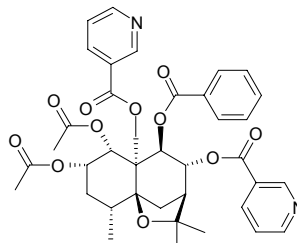
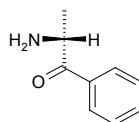
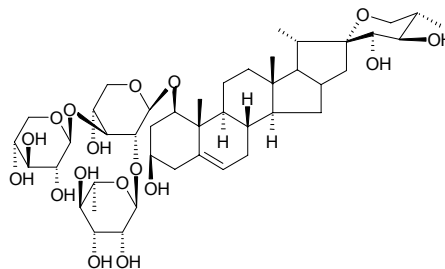
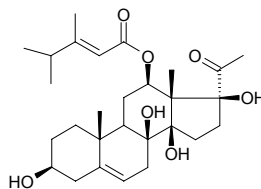
Pharm: Hypoglycemic. Source: CHANG CHUN HUA *Catharanthus roseus*

[Syn. *Vinca rosea*; *Lochnera rosea*], CHANG YE CHANG CHUN HUA

Catharanthus longifolius (whole herb: content = 0.0914%^[5508]), LUAN

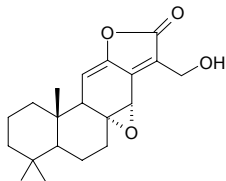
YUAN CHANG CHUN HUA *Catharanthus ovalis*. Ref: 1, 2, 5, 5508.



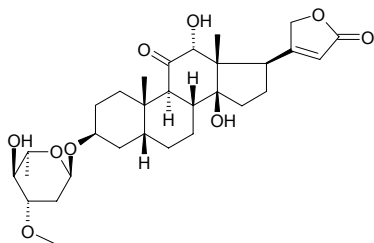
3322 Catharine[1355-31-3] C₄₆H₅₄N₄O₁₀ (822.96). Source: CHANG CHUN HUA*Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.**3323 Catharosine**[2564-23-0] C₂₂H₂₈N₂O₄ (384.48). Source: CHANG CHUN HUA*Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.**3324 Cathayanon A**C₄₀H₃₆O₁₂ (708.73). Pale yellow crystals (CH₃OH), mp 180–181°C (dec),[α]_D¹⁹ = –193.9° (c = 0.12, MeOH). Pharm: Cytotoxic (cell adhesion inhibitor, adhesion of HL-60 cell to BAEC, 10 μmol/L, InRt = 44.72%). Source: HUA SANG *Morus cathayana* (root cortex). Ref: 5169.**3325 Cathayanon B**C₄₀H₃₆O₁₂ (708.73). Yellow powder, [α]_D¹⁹ = –733.7° (c = 0.18, MeOH).Pharm: Cytotoxic (cell adhesion inhibitor, adhesion of HL-60 cell to BAEC, 10 μmol/L, InRt = 39.02%). Source: HUA SANG *Morus cathayana* (root cortex). Ref: 5169.**3326 Catheduline E₂**Cathedulin E₂ [61231-06-9] C₃₈H₄₀N₂O₁₁ (700.75). Source: QIAO CHA*Catha edulis*. Ref: 658.**3327 D-Cathinone**[80096-54-4] C₉H₁₁NO (149.11). Pharm: Anorexic; CNS stimulant. Source:QIAO CHA *Catha edulis*, KE SHI MEI DENG MU *Maytenus krukovii*. Ref: 658.**3328 Caudaside A**C₄₄H₇₀O₁₇ (871.04). White powder, mp 156–157°C. Source: HU YAN WAN NIAN QING *Ornithogalum caudatum*. Ref: 839.**3329 Caudatin**C₂₈H₄₂O₇ (490.64). mp 158–160°C, 190–195°C. Source: BAI SHOU WU *Cynanchum bungei*. Ref: 6.

3330 Caudicifolin

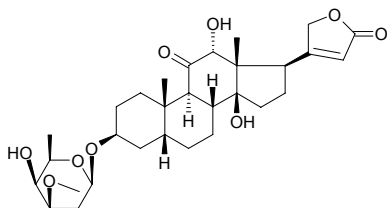
[65388-16-1] C₂₀H₂₆O₄ (330.43). Colorless needles. Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4585.

**3331 Caudoside**

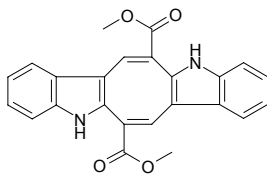
[464-76-6] C₃₀H₄₄O₉ (548.68). mp 249~252°C. Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 6.

**3332 Caudostroside**

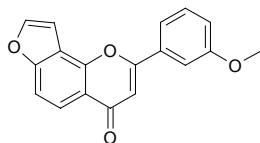
C₃₀H₄₄O₉ (548.68). Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 6.

**3333 Caulerpin**

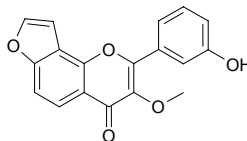
C₂₄H₁₈N₂O₄ (398.42). Orange red solid, mp 316~318°C. Source: RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. Ref: 5080.

**3334 Cauliflorin A**

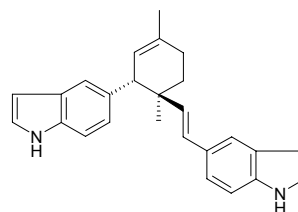
Pongol methyl ether C₁₈H₁₂O₄ (292.29). Colorless needles, mp 170~171°C; yellow powder. Source: GAN HUA DOU *Fordia cauliflora*, HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00075%dw). Ref: 2456, 4624.

**3335 Cauliflorin B**

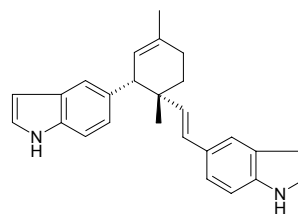
3'-Hydroxy,3-methoxy furo[8,7:4'',5'']flavone C₁₈H₁₂O₅ (308.29). Yellow needles, mp 182~183°C; white crystals (DMSO), mp 188°C. Source: GAN HUA DOU *Fordia cauliflora*, SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 2456, 3767.

**3336 Caulindole A**

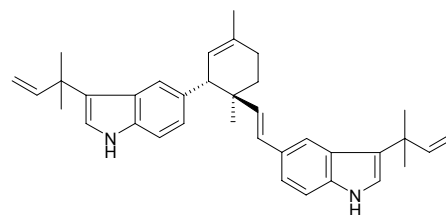
(3,4-*trans*)-3-(5'-Indolyl)-1,4-dimethyl-4-[ethyl-2-(5''-indolyl)enyl]-cyclohex-1-ene C₂₆H₂₆N₂ (366.51). Yellow oil, [α]_D = +13.95° (c = 0.17, CHCl₃). Source: JING SHENG HUA AI SUO LUO NA *Isolona cauliflora* (root cortex). Ref: 3755.

**3337 Caulindole B**

(3,4-*cis*)-3-(5'-Indolyl)-1,4-dimethyl-4-[ethyl-2-(5''-indolyl)enyl]-cyclohex-1-ene C₂₆H₂₆N₂ (366.51). Yellow oil. Source: JING SHENG HUA AI SUO LUO NA *Isolona cauliflora* (root cortex). Ref: 3755.

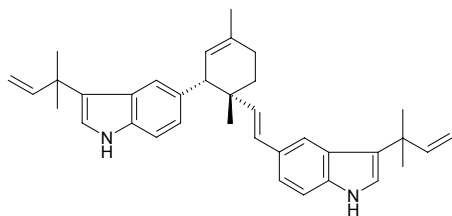
**3338 Caulindole C**

(3,4-*trans*)-3-[3'-(1''',1'''-Dimethyl-2'''-propenyl)-5'-indolyl]-1,4-dimethyl-4-[2-[3'-(1''',1'''-dimethyl-2'''-propenyl)-5''-indolyl]-ethyl-2-enyl]-cyclohex-1-ene C₃₆H₄₂N₂ (502.75). Yellow gum. Source: JING SHENG HUA AI SUO LUO NA *Isolona cauliflora* (root cortex). Ref: 3755.

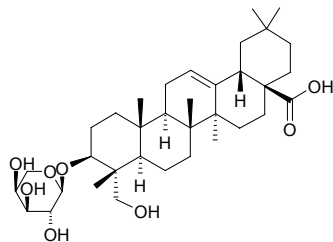


3339 Caulindole D

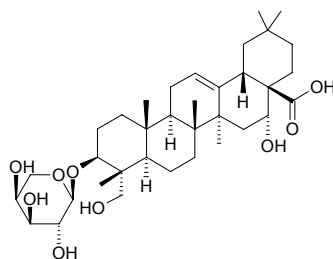
(3,4-*cis*)-3-[3'-(1''',1'''-Dimethyl-2'''-propenyl)-5'-indolyl]-1,4-dimethyl-4-{2-[3''-(1''''',1''''-dimethyl-2''''-propenyl)-5''-indolyl]-ethyl-2-enyl}-cyclohex-1-ene
 $C_{36}H_{42}N_2$ (502.75). Yellow gum. Source: JING SHENG HUA AI SUO LUO
 NA *Isolona cauliflora* (root cortex). Ref: 3755.

**3340 Cauloside A**

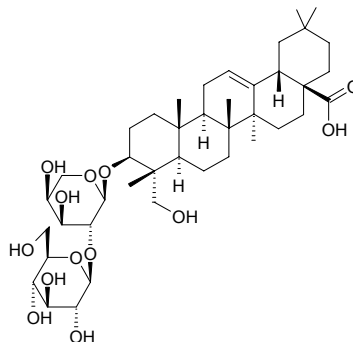
Koelreuteriasaponin A; Hederagenin 3-*O*-arabinoside [17184-21-3] $C_{35}H_{56}O_8$
 (604.83). mp 228°C (dec), mp 224~226°C (dec). Pharm: Molluscicide (snails
Biomphalaria glabrata, 24h, LD₁₀₀ = 3mg/L). Source: BAI TOU WENG
Pulsatilla chinensis, GUAN MU TONG *Aristolochia manshuriensis*, HONG
 MAO QI *Leontice robustum*, LUAN HUA *Koelreuteria paniculata*, WEI
 LING XIAN *Clematis chinensis*, YANG CHANG CHUN TENG *Hedera helix*,
Patrinia sp. Ref: 6, 658.

**3341 Cauloside B**

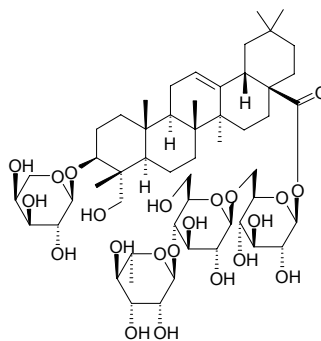
[12672-43-4] $C_{35}H_{56}O_9$ (620.83). Source: HONG MAO QI *Leontice robustum*.
Ref: 6.

**3342 Cauloside C**

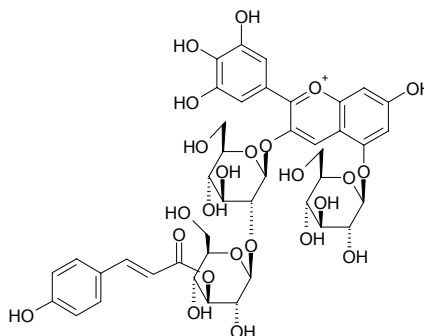
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside
 [20853-58-1] $C_{41}H_{66}O_{13}$ (766.98). mp 252~255°C (dec). Source: HONG
 MAO QI *Leontice robustum*, HONG MAO WU JIA PI *Acanthopanax giraldii*
 [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], REN
 DONG TENG *Lonicera japonica*. Ref: 6, 660.

**3343 Cauloside D**

Kizutasaponin K₁₀ [12672-45-6] $C_{53}H_{86}O_{22}$ (1075.26). Source: HONG MAO
 QI *Leontice robustum*, XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial
 parts). Ref: 6, 3530.

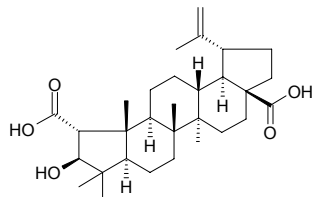
**3344 Cayratinin**

[33062-96-3] $C_{42}H_{47}O_{24}^+$ (935.83). Source: WU LIAN MEI *Cayratia*
japonica. Ref: 6.

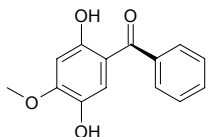


3345 Ceanothic acid

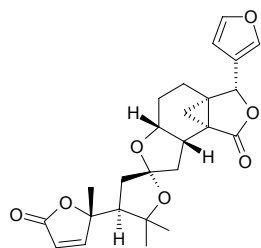
[121302-79-4] C₃₀H₄₆O₅ (486.70). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 2.

**3346 Cearoin**

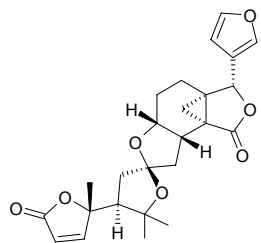
2,5-Dihydroxy-4-methoxybenzophenone [52811-37-7] C₁₄H₁₂O₄ (244.25).
Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**3347 Cedkathryn A**

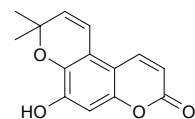
C₂₅H₂₈O₇ (440.50). Fine white crystals, mp 176–179°C, [α]_D = –31° (c = 0.124, CHCl₃). Source: *Cedrelopsis gracilis* (stem cortex). Ref: 3876.

**3348 Cedkathryn B**

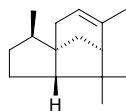
C₂₅H₂₈O₇ (440.50). Fine white crystals, mp 119–122°C, [α]_D = +12° (c = 0.09, CHCl₃). Source: *Cedrelopsis gracilis* (stem cortex). Ref: 3876.

**3349 Cedrecoumarin A**

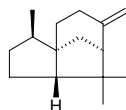
C₁₄H₁₂O₄ (244.25). Source: *Cedrelopsis grevei* (trunk bark). Ref: 5368.

**3350 α-Cedrene**

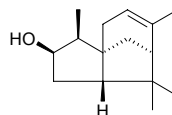
[469-61-4] C₁₅H₂₄ (204.36). Pharm: Food additive. Source: BEI MEI YUAN BAI *Juniperus virginiana*, DANG GUI *Angelica sinensis*. Ref: 2, 658.

**3351 β-Cedrene**

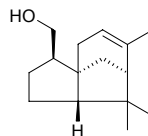
[546-28-1] C₁₅H₂₄ (204.36). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], SHENG JIANG *Zingiber officinale*. Ref: 2.

**3352 α-Cedren-3β-ol**

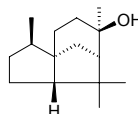
C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁵ = –53.4° (c = 1.0, CHCl₃). Source: RU XIANG BAI *Juniperus thurifera* (wood). Ref: 5044.

**3353 α-Cedren-12-ol**

C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁵ = –50.1° (c = 1.0, CHCl₃). Source: RU XIANG BAI *Juniperus thurifera* (wood). Ref: 5044.

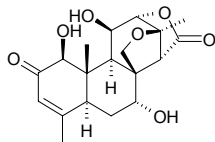
**3354 α-Cedrol**

[77-53-2] C₁₅H₂₆O (222.37). Pharm: Sedative (cedrol-exposed Wistar rats, accumulative spontaneous motor activity was significantly decreased, prolonged pentobarbital-induced sleeping time)^[5497]; food additive; 12(S)-LOX inhibitor inactive (hmn Platelets, 100μg/mL, 12(S)-HETE Production inhibitor inactive)^[4980]. Source: BEI MEI YUAN BAI *Juniperus virginiana*, DI ZHONG HAI BAI MU *Cupressus sempervirens*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], OU ZHOU CI BAI *Juniperus communis* (wood), REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2, 658, 660, 4980, 5497.

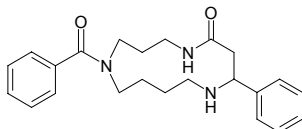


3355 Cedronin

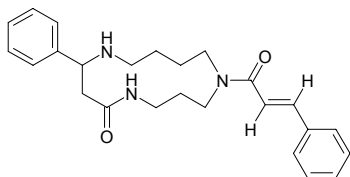
$C_{19}H_{24}O_7$ (364.40). **Pharm:** Cytotoxic (leukemia SR, $LC_{50} = 44.2\mu\text{g/mL}$; non-small cell lung cancer NCI-H23, $LC_{50} = 61.1\mu\text{g/mL}$; melanoma LOX IMVI, $LC_{50} = 33.7\mu\text{g/mL}$, MI4, $LC_{50} = 50.7\mu\text{g/mL}$; renal cancer ACHN, $LC_{50} = 69.4\mu\text{g/mL}$, RXF 393, $LC_{50} = 66.1\mu\text{g/mL}$). **Source:** MA DAO HUANG LIAN SHU *Samadera madagascariensis* (leaf). **Ref:** 5334.

**3356 Celabenzine**

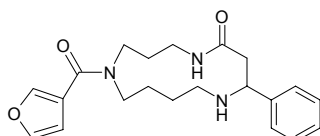
[53938-08-2] $C_{23}H_{29}N_3O_2$ (379.51). **Pharm:** Insecticidal. **Source:** LEI GONG TENG *Tripterygium wilfordii*, MO SANG BI KE MEI DENG MU *Maytenus mossambicensis*. **Ref:** 2.

**3357 Celacinnine**

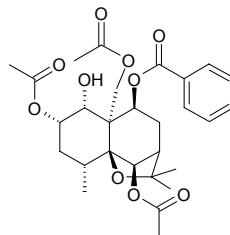
[53938-05-9] $C_{25}H_{31}N_3O_2$ (405.54). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**3358 Celafurine**

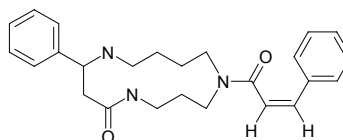
[53938-09-3] $C_{21}H_{27}N_3O_3$ (369.47). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**3359 Celahin C**

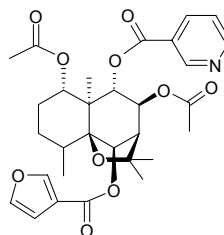
$C_{28}H_{36}O_{10}$ (532.59). **Pharm:** DPPH scavenger inactive (for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} > 40\mu\text{mol/L}$). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**3360 Celalocinnine**

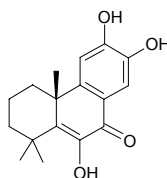
Caesalpinine C [53990-48-0] $C_{25}H_{31}N_3O_2$ (405.54). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**3361 Celapanine**

[52658-32-9] $C_{30}H_{35}NO_{10}$ (569.61). **Pharm:** Irritant (strong); reduces toxicity of opium; antiarthritic (treatment of rheumatism and paralysis). **Source:** DENG YOU TENG ZI *Celastrus paniculatus*. **Ref:** 658.

**3362 Celaphanol A**

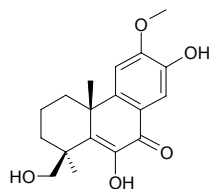
$C_{17}H_{20}O_4$ (288.35). Red amorphous powder, $[\alpha]_D^{25} = +13^\circ$ ($c = 0.9$, $CDCl_3$). **Pharm:** Anti-inflammatory (*in vitro*, NF- κ B inhibitor, $IC_{50} = (18.2 \pm 1.0)\mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (32.6 \pm 1.4)\mu\text{mol/L}$; control Aminoguanidine, $IC_{50} = (16.3 \pm 0.4)\mu\text{mol/L}$)^[4604]. **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.0047%dw)^[4604], *Celastrus stephanotifolius*. **Ref:** 2310, 2511, 4604.



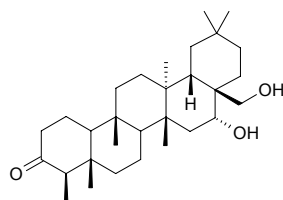
3363 Celaphanol B

$C_{18}H_{22}O_5$ (318.37). Brown amorphous powder, $[\alpha]_D^{25} = +15^\circ$ ($c = 0.6$, MeOH).

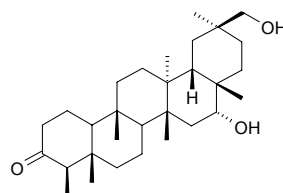
Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], *Celastrus stephanotifolius*. Ref: 2310, 2511.

**3364 Celasdin A**

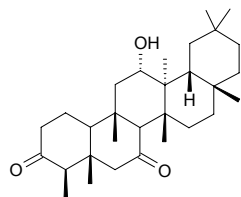
$C_{30}H_{50}O_3$ (458.73). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2511.

**3365 Celasdin B**

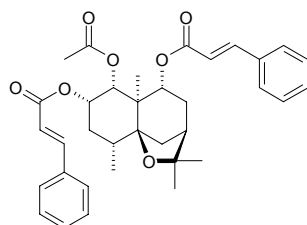
$C_{30}H_{50}O_3$ (458.73). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2511.

**3366 Celasdin C**

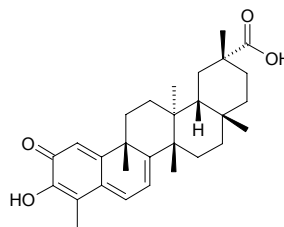
$C_{30}H_{48}O_3$ (456.72). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2511.

**3367 Celastrine B**

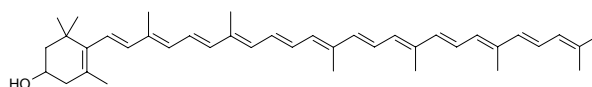
$C_{35}H_{40}O_7$ (572.70). Amorphous powder, mp 69~70°C. Source: CI NAN SHE TENG *Celastrus flagellaris*. Ref: 384.

**3368 Celastrol**

Tripteryne [34157-83-0] $C_{29}H_{38}O_4$ (450.62). Red crystals, mp 205°C (dec); amorphous solid, mp 198~200°C. Pharm: Anti-inflammatory (rat, 0.5mg/kg, strongly inhibits cotton ball granuloma, 0.1~1.0μg/mL, inhibits PGE₂ induced by zymosan, 1.0μg/mL, inhibits macrophage phagocytic function); antiarthritic (inhibits activity of interleukin-1 in mus enterocelia macrophages, inhibits production of interleukin-2 in mus splenocyte, reduces synovioblasts to release PGE₂ in rbt); antioxidant (IC₅₀ = 7μmol/L); immunomodulator (strongly inhibits formation of platelet cell in mus spleen, significantly inhibits mus delayed hypersensitive reaction); immunosuppressant (inhibits reproduction of mus spleen cells caused by PHA, ConA and LPS, inhibits reproduction of lymphocytes); Spermicidal (gpg, *in vitro*); hypnotic (extends mus sleeping time induced by pentobarbital); anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated IL-1β production on hmn monocytes, mean IC₅₀ = 56nmol/L)^[4416]; anti-inflammatory (modulator of cytokine network: decreases production of pro-inflammatory cytokines, TNF-α and IL-1β in hmn monocytes and macrophages, IC₅₀ = 30~100nmol/L)^[4416]; anti-inflammatory (NO production inhibitor)^[4415]; anti-inflammatory (*in vitro*, NF-κB inhibitor, IC₅₀ = (0.27±0.01)μmol/L; NO production inhibitor, IC₅₀ = (0.23±0.02)μmol/L; control Aminoguanidine, IC₅₀ = (16.3±0.4)μmol/L)^[4604]; cytotoxic (KB, IC₅₀ = (1.6±0.1)μmol/L, control Podophyllotoxin, IC₅₀ = 0.014μmol/L)^[3969]; antibacterial (*Bacillus cereus*, MIC = 4.44μmol/L, control Chloramphenicol, MIC = 6.19μmol/L; *Staphylococcus epidermidis*, MIC = 1.11μmol/L, Chloramphenicol, MIC = 12.38μmol/L; *Micrococcus luteus*, MIC = 4.44μmol/L, Chloramphenicol, MIC = 6.19μmol/L)^[3969]. Source: CU MAO NAN SHE TENG *Celastrus strigillosus*, GAO MEI YING BAN *Crossopetalum gaumeri* (root), HEI MAN *Tripterygium regelii*, LEI GONG TENG *Tripterygium wilfordii*, MEI ZHOU NAN SHE TENG *Celastrus scandens*, NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.13%_{dw})^[4604]. Ref: 1, 6, 900, 3969, 4416, 4415, 4604.

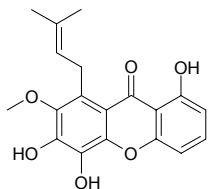
**3369 Celaxanthin**

[472-74-2] $C_{40}H_{54}O$ (550.88). mp 209~210°C. Source: CI NAN SHE TENG *Celastrus flagellaris*. Ref: 6.

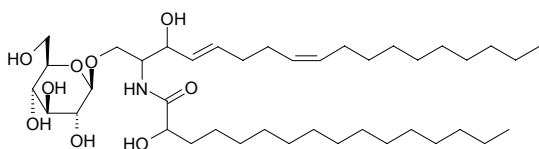


3370 Celebixanthone

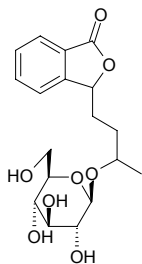
$C_{19}H_{18}O_6$ (342.35). **Pharm:** Antioxidant (DPPH scavenger, $50\mu\text{mol/L}$, $\text{ScRt} = 79.3\%$, $\text{IC}_{50} = 12.3\mu\text{mol/L}$; control BHT, $50\mu\text{mol/L}$, $\text{ScRt} = 51.7\%$, $\text{IC}_{50} = 28.9\mu\text{mol/L}$)^[4423]. **Source:** HUANG NIU MU *Cratoxylum cochinchinense* (root). **Ref:** 4423.

**3371 Celebroside**

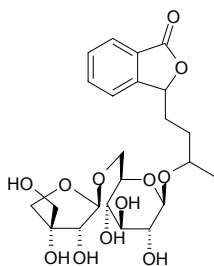
$C_{40}H_{75}NO_9$ (714.05). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2.

**3372 Celephtalide A**

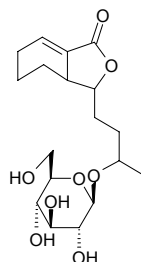
(3'S)-3'-Hydroxy-3-butyl phthalide β -D-glucopyranoside $C_{18}H_{24}O_8$ (368.39). Amorphous powder, $[\alpha]_D^{23} = -43^\circ$ ($c = 3.0$, MeOH). **Source:** HAN QIN *Apium graveolens* (fruit). **Ref:** 3477.

**3373 Celephtalide B**

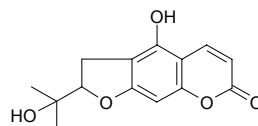
(3'S)-3'-Hydroxy-3-butyl phthalide β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside $C_{23}H_{32}O_{12}$ (500.50). Amorphous powder, $[\alpha]_D^{23} = -76^\circ$ ($c = 0.5$, MeOH). **Source:** HAN QIN *Apium graveolens* (fruit). **Ref:** 3477.

**3374 Celephtalide C**

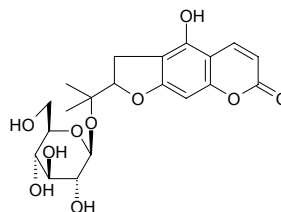
(3S)-3'-Hydroxysedanolid β -D-glucopyranoside $C_{18}H_{28}O_8$ (372.42). Amorphous powder, $[\alpha]_D^{23} = -56^\circ$ ($c = 1.1$, MeOH). **Source:** HAN QIN *Apium graveolens* (fruit). **Ref:** 3477.

**3375 Celereoin**

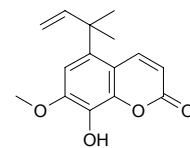
[74560-02-4] $C_{14}H_{14}O_5$ (262.26). **Source:** HAN QIN *Apium graveolens*. **Ref:** 19.

**3376 Celereoside**

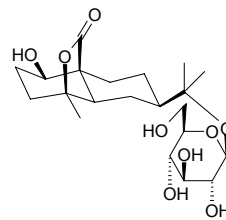
$C_{20}H_{24}O_{10}$ (424.41). **Source:** HAN QIN *Apium graveolens*. **Ref:** 19.

**3377 Celerin**

[73815-20-2] $C_{15}H_{16}O_4$ (260.29). **Source:** HAN QIN *Apium graveolens*. **Ref:** 19.

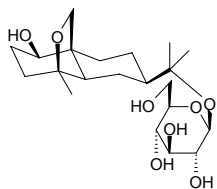
**3378 Celerioside A**

(1R,4S,5R,7R,10S)-1,11-Dihydroxy-eudesman-14,4-olide 11-O- β -D-glucopyranoside $C_{21}H_{34}O_9$ (430.50). Colorless needles (MeOH), mp $223\text{--}225^\circ\text{C}$, $[\alpha]_D^{23} = +19^\circ$ ($c = 2.3$, MeOH). **Source:** HAN QIN *Apium graveolens* (fruit). **Ref:** 3477.

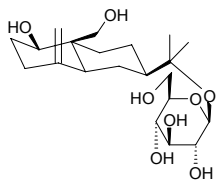


3379 Celerioside B

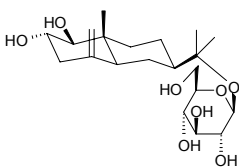
1 β ,11-Dihydroxy-eudesman-4,14-oxide 11-*O*- β -D-glucopyranoside C₂₁H₃₆O₈ (416.52). Amorphous powder, $[\alpha]_D^{23} = -9^\circ$ ($c = 0.8$, MeOH). Source: HAN QIN *Apium graveolens* (fruit). Ref: 3477.

**3380 Celerioside C**

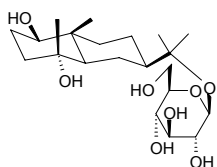
Eudesman-4(15)-ene-1 β ,11,14-triol 11-*O*- β -D-glucopyranoside C₂₁H₃₆O₈ (416.52). Amorphous powder, $[\alpha]_D^{23} = +20^\circ$ ($c = 2.4$, MeOH). Source: HAN QIN *Apium graveolens* (fruit). Ref: 3477.

**3381 Celerioside D**

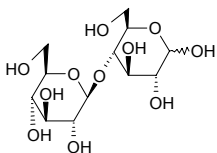
Eudesman-4(15)-ene-1 β ,2 α ,11-triol 11-*O*- β -D-glucopyranoside C₂₁H₃₆O₈ (416.52). Amorphous powder, $[\alpha]_D^{23} = +13^\circ$ ($c = 0.3$, MeOH). Source: HAN QIN *Apium graveolens* (fruit). Ref: 3477.

**3382 Celerioside E**

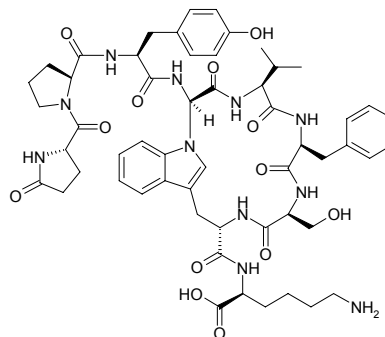
Eudesman-1 β ,4 α ,11-triol 11-*O*- β -D-glucopyranoside C₂₁H₃₈O₈ (418.53). Amorphous powder, $[\alpha]_D^{25} = +9^\circ$ ($c = 2.4$, MeOH). Source: HAN QIN *Apium graveolens* (fruit). Ref: 3477.

**3383 Cellobiose**

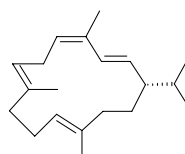
4-*O*- β -D-Glucopyranosyl-D-glucose [528-50-7] C₁₂H₂₂O₁₁ (342.30). mp 225°C (dec). Source: PI HAN CAO *Melilotus suaveolens*. Ref: 6.

**3384 Celogenamide A**

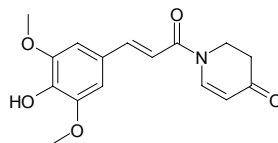
C₅₃H₆₉N₁₁O₁₃ (1092.23). Colorless solid, $[\alpha]_D^{22} = +3^\circ$ ($c = 0.3$, DMSO). Source: QIANG XIANG *Celosia argentea* (seed: yield = 0.0002%). Ref: 4771.

**3385 Cembrene**

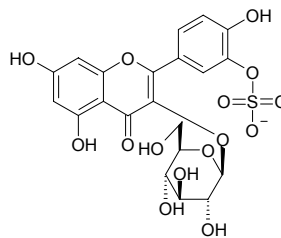
Thunbergene [1898-13-1] C₂₀H₃₂ (272.48). mp 58–59°C. Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

**3386 Cenocladamide**

N-(4'-Hydroxy-3',5'-dimethoxycinnamoyl)-*d*²-pyridin-4-one C₁₆H₁₇NO₅ (303.32). Pale yellow oil. Source: *Piper cenocladum* (leaf). Ref: 3896.

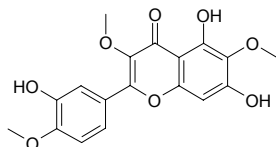
**3387 Centabracein**

Quercetin 3-*O*- β -D-glucopyranoside 3'-sulphate C₂₁H₁₉O₁₅S⁻ (543.44). Yellowish amorphous solid, $[\alpha]_D^{20} = -60.0^\circ$ ($c = 0.13$, MeOH). Source: BAO PIAN SHI CHE JU *Centaurea bracteata* (aerial parts). Ref: 5151.

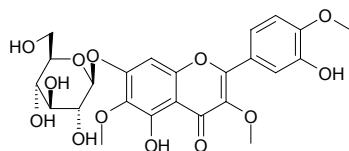


3388 Centaureidin

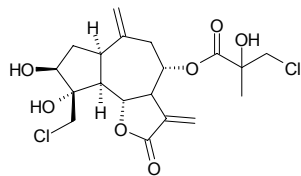
[17313-52-9] C₁₈H₁₆O₈ (360.32). mp 203°C. **Pharm:** Cytotoxic (2.7mg/mL); NO production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 31.9 or 7.1 μmol/L)^[4918]; PGE₂ production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 21.7 or 28.7 μmol/L)^[4918]. **Source:** CHU CHONG JU *Chrysanthemum cinerariaefolium*, OU ZHOU QI MU *Alnus glutinosa*, XIAO YE JU HAO *Tanacetum microphyllum* (aerial parts), YI WA JU *Iva frutescens*. **Ref:** 661, 4918.

**3389 Centaurein**

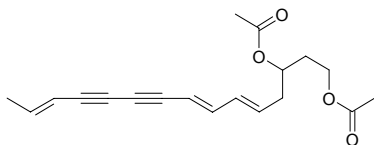
3,6,4'-Tri-*O*-methylquercetagetin-7-*O*-β-*D*-glucopyranoside C₂₄H₂₆O₁₃ (522.47). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = (115.30±6.18) μmol/L, control Quercetin, IC₅₀ = (6.11±0.53) μg/mL)^[5318]. **Source:** ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). **Ref:** 5318.

**3390 Centaurepensin**

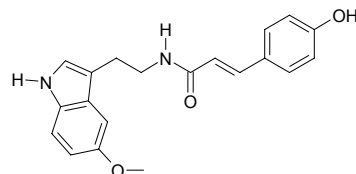
C₁₉H₂₄Cl₂O₇ (435.30). **Source:** YI BAO MA HUA TOU *Serratula strangulata* (root stem). **Ref:** 5244.

**3391 Centaur X2**

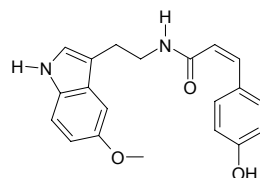
C₁₉H₂₂O₄ (314.38). mp 54–56°C. **Source:** QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. **Ref:** 6.

**3392 Centeyamine**

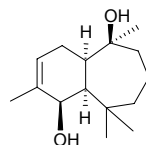
(*E*)-*N*-(4-Hydroxycinnamoyl)-5-methoxytryptamine C₂₀H₂₀N₂O₃ (336.39). Amorphous. **Source:** SHI CHE JU *Centaurea cyanus* (seed). **Ref:** 5174.

**3393 cis-Centeyamine**

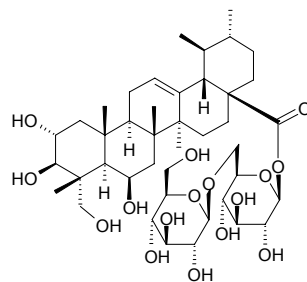
(*Z*)-*N*-(4-Hydroxycinnamoyl)-5-methoxytryptamine C₂₀H₂₀N₂O₃ (336.39). Amorphous. **Source:** SHI CHE JU *Centaurea cyanus* (seed). **Ref:** 5174.

**3394 Centdarol**

[57308-24-4] C₁₅H₂₆O₂ (238.37). **Pharm:** Antispasmodic. **Source:** XUE SONG *Cedrus deodara*. **Ref:** 658.

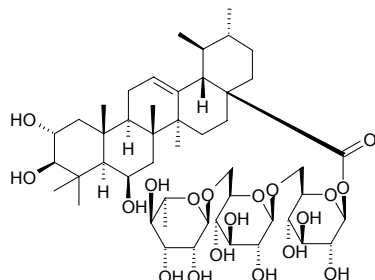
**3395 Centellasaponin B**

Madecassic acid 28-*O*-β-*D*-glucopyranosyl(1→6)-β-*D*-glucopyranoside C₄₂H₆₈O₁₆ (829.00). Colorless fine crystals (CHCl₃-MeOH), mp 223–224°C, [α]_D²⁵ = +13.2° (c = 0.3, MeOH). **Source:** JI XUE CAO *Centella asiatica* (aerial parts). **Ref:** 4135.

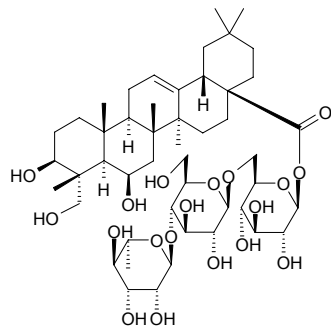


3396 Centellasaponin C

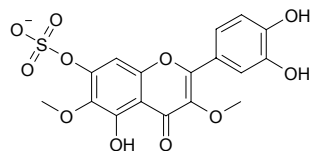
Madasiatic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranoside C₄₈H₇₈O₁₉ (959.15). Colorless fine crystals (CHCl₃-MeOH), mp 209~210°C, $[\alpha]_D^{25} = -9.0^\circ$ ($c = 0.6$, MeOH). Source: JI XUE CAO *Centella asiatica* (aerial parts). Ref: 4135.

**3397 Centellasaponin D**

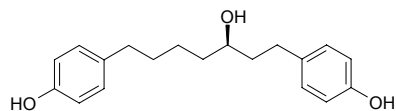
3 β ,6 β ,23-Trihydroxyolean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₄₈H₇₈O₁₉ (959.15). Colorless fine crystals (CHCl₃-MeOH), mp 202~203°C, $[\alpha]_D^{25} = -12.4^\circ$ ($c = 0.3$, MeOH). Source: JI XUE CAO *Centella asiatica* (aerial parts). Ref: 4135.

**3398 Centradixin**

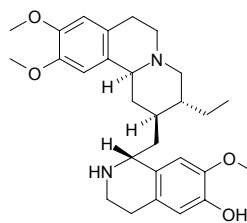
C₁₇H₁₃O₁₁S⁻ (425.35). Yellowish amorphous solid. Source: BAO PIAN SHI CHE JU *Centaurea bracteata* (root). Ref: 5235.

**3399 (-)-Centrololol**

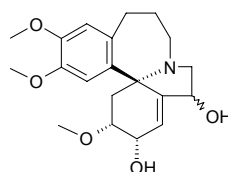
C₁₉H₂₄O₃ (300.40). Pharm: β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (-17.2 \pm 3.8%)^[4304]. Source: MAO GUO QI *Acer nikoense* (stem cortex). Ref: 4304.

**3400 Cephaeline**

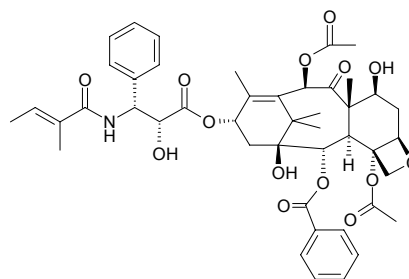
[483-17-0] C₂₈H₃₈N₂O₄ (466.63). Pharm: Antiamebic; antitussive (dispels phlegm); emetic. Source: TU GEN *Cephaelis ipecacuanha*, AN GE LA BA JIAO FENG *Alangium lamarckii*. Ref: 658.

**3401 Cephalofortuneine**

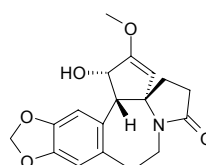
2-Epicephalofortuneine [68156-55-8] C₂₀H₂₇NO₅ (361.44). White crystals, mp 80~83°C, $[\alpha]_D^{32} = +12.1^\circ$ ($c = 0.15$, chloroform). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 27.

**3402 Cephalomannine**

Taxol B [71610-00-9] C₄₅H₅₃NO₁₄ (831.92). Acicular crystals (solution of methanol in water), mp 184~186°C, $[\alpha]_D = -41^\circ$ (methanol). Pharm: Antineoplastic (P₃₈₈); cytotoxic (KB, ED₅₀ = 0.0038 μ g/mL). Source: HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*], JIANG GUO ZI SHAN *Taxus baccata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00045%dw)^[4666]. Ref: 661, 4666.

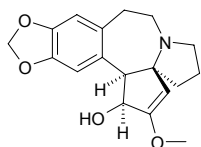
**3403 Cephalotaxinamide**

[80797-04-2] C₁₈H₁₉NO₅ (329.36). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 20.

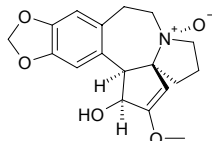


3404 Cephalotaxine

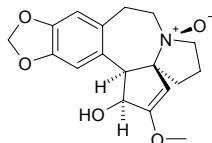
[24316-19-6] C₁₈H₂₁NO₄ (315.37). White crystals, mp 132~133°C, [α]_D²⁵ = -204° (*c* = 1.8, chloroform).^[5507] **Pharm:** Antineoplastic (S₁₈₀ and malignant lymphoma); muscle stimulant; toxin (inhibits bone marrow). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*] (branchlet and bark: mean content of 2 samples = 0.054%^[5508]), RI BEN CU FEI *Cephalotaxus harringtonia* (in 1963, isolated from the plant by Paudler for the first time^[5507]), SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.104%^[4675]; branchlet and bark: mean content of 2 origins = 0.070%^[5508]), TAI WAN CU FEI *Cephalotaxus wilsoniana*, ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 1, 4, 5, 20, 660, 4675, 5507, 5508.

**3405 Cephalotaxine α -N-oxide**

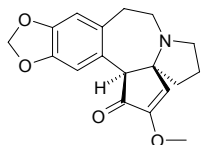
C₁₈H₂₁NO₅ (331.37). Amorphous solid, [α]_D²¹ = -131° (*c* = 0.5, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, nasopharynx KB cells, IC₅₀ = 30µg/mL, weak activity). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.0010%). **Ref:** 4675.

**3406 Cephalotaxine β -N-oxide**

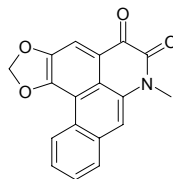
C₁₈H₂₁NO₅ (331.37). Amorphous solid, [α]_D²¹ = -221° (*c* = 0.5, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, nasopharynx KB cells, IC₅₀ = 14µg/mL, weak activity). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.0026%). **Ref:** 4675.

**3407 Cephalotaxinone**

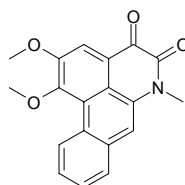
[38750-57-1] C₁₈H₁₉NO₄ (313.36). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.0020%)^[4675]. **Ref:** 20, 4675.

**3408 Cephadione A**

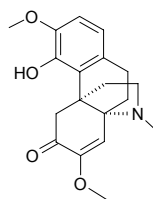
C₁₈H₁₁NO₄ (305.29). **Pharm:** Platelet aggregation inhibitor (rht platelets induced by thrombin, 100µg/mL, add thrombin 0.1u/mL, AggRt = (90.6±1.4)%, control AggRt = (92.6±0.4)%); add AA, 100µmol/L, 50µg/mL, AggRt = (84.7±2.2)%, control AggRt = (87.8±0.3)%, Aspirin 50µg/mL, AggRt = (11.7±10.1)%; add collagen 10µg/mL, 50µg/mL, AggRt = (84.7±1.3)%, control AggRt = (89.3±0.5)%, Aspirin 100µg/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 50µg/mL, AggRt = (92.5±1.2)%, control AggRt = (93.0±0.6)%^[4938]. **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw), TAI WAN HU JIAO *Piper taiwanense* (stem). **Ref:** 3026, 4938.

**3409 Cephadione B**

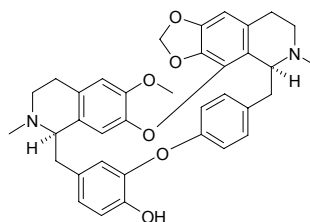
C₁₉H₁₅NO₄ (321.34). **Source:** YU XING CAO *Houttuynia cordata*. **Ref:** 2428.

**3410 Cepharamine**

[15444-26-5] C₁₉H₂₃NO₄ (329.40). mp 186~187°C. **Source:** BAI YAO ZI *Stephania cepharantha*. **Ref:** 6.

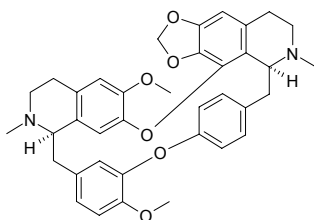
**3411 Cepharanoline**

[27686-34-6] C₃₆H₃₆N₂O₆ (592.70). mp 270°C (dec). **Source:** BAI YAO ZI *Stephania cepharantha*. **Ref:** 6.

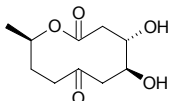


3412 Cepharanthine

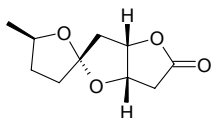
[481-49-2] $C_{37}H_{38}N_2O_6$ (606.73). Yellow acicular crystals, (acetone–benzene), mp 145–155°C, $[\alpha]_D^{20} = +277^\circ$ ($c = 2$, chloroform), soluble in common organic solvents, insoluble in petroleum spirit.^[5507] **Pharm:** Activates lymph node; antibacterial (*Mycobacterium tuberculosis*); antineoplastic (HeLa, *in vitro*, ED₅₀ = 5.5 µg/kg; hmn, HeLa-S3, *in vitro*, ED₅₀ = 7.0 µg/kg; EAC *in vivo*; S₁₈₀ *in vivo*; inhibits DNA synthesis); antidote (effective detoxification for alcohol and venom); inhibits akaryocyte K⁺ effusion caused by lysolecithin; platelet aggregation inhibitor (caused by collagen); antiallergic (inhibits some allergic shock). **Source:** BAI YAO ZI *Stephania cepharantha*, DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*], TAI WAN QIAN JIN TENG *Stephania sasakii*. **Ref:** 1, 4, 5, 6, 5507.

**3413 Cepharosporolide C**

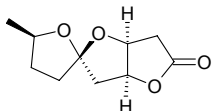
$C_{10}H_{16}O_5$ (216.24). **Pharm:** Antimalarial inactive (*Plasmodium falciparum* K1, 20 µg/mL; control Dihydroartemisinin, IC₅₀ = 1.2 ng/mL)^[4784]. **Source:** YONG CHONG CAO *Cordyceps militaris*. **Ref:** 4784.

**3414 Cepharosporolide E**

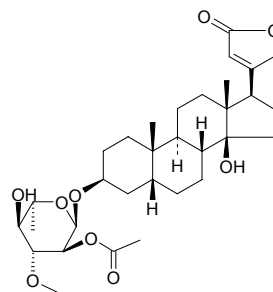
$C_{10}H_{14}O_4$ (198.22). **Source:** YONG CHONG CAO *Cordyceps militaris*. **Ref:** 4784.

**3415 Cepharosporolide F**

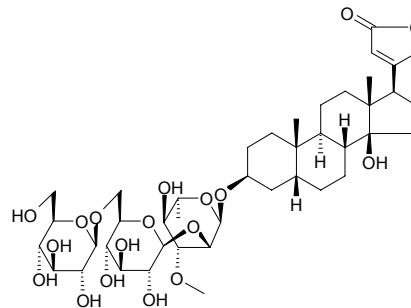
$C_{10}H_{14}O_4$ (198.22). **Source:** YONG CHONG CAO *Cordyceps militaris*. **Ref:** 4784.

**3416 Cerberin**

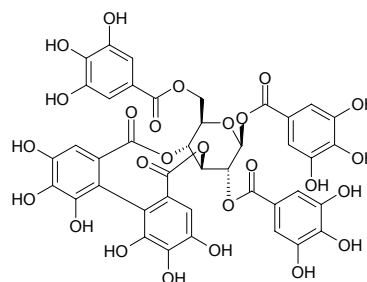
Veneniferin $C_{32}H_{48}O_9$ (576.73). mp 212–215°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 1.92 µg/mL; BC, ED₅₀ = 1.63 µg/mL; NCI-H187, ED₅₀ = 1.24 µg/mL; control Ellipticine, ED₅₀ = 0.3–0.6 µg/mL)^[3777]. **Source:** AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed), HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (seed; mean content = 0.60%^[5508]), NIU XIN QIE *Zi Cerbera manghas*. **Ref:** 1, 2594, 3777, 5508.

**3417 Cerberoside**

$C_{42}H_{66}O_{18}$ (858.99). mp 187.5–188.5°C, 197–201°C. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], NIU XIN QIE *Zi Cerbera manghas*. **Ref:** 6.

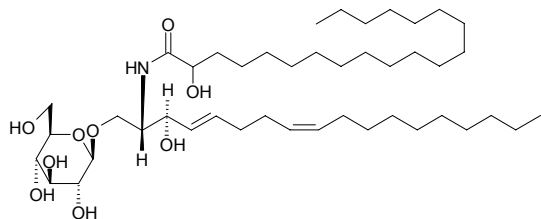
**3418 Cercidin A**

1,2,6-Tri-*O*-galloyl-3,4-(*R*)-hexahydroxydiphenoyl-β-*D*-glucose $C_{41}H_{30}O_{26}$ (938.68). Off-white amorphous powder, $[\alpha]_D = -71.6^\circ$ ($c = 1.0$, acetone) **Source:** RI BEN LIAN XIANG SHU *Cercidiphyllum japonicum* (bark). **Ref:** 3519.

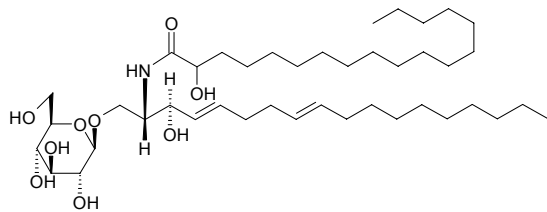


3419 Cerebroside 1

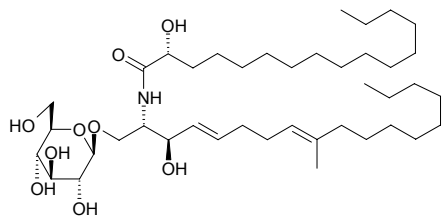
[174176-91-1] C₄₄H₈₃NO₉ (770.15). Colorless amorphous powder, $[\alpha]_D^{25} = +17^\circ$ ($c = 0.085$, methanol). Pharm: Antihepatotoxin (rat, CCl₄). Source: DONG BEI TIAN NAN XING *Arisaema amurense*. Ref: 1054.

**3420 Cerebroside 5**

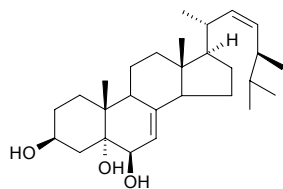
[174176-93-3] C₄₂H₇₉NO₉ (742.09). Colorless amorphous powder. Pharm: Antihepatotoxin (rat, CCl₄). Source: DONG BEI TIAN NAN XING *Arisaema amurense*. Ref: 1054.

**3421 Cerebroside B**

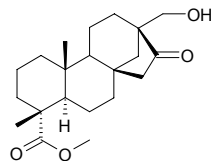
[88642-46-0] C₄₁H₇₇NO₉ (728.07). White amorphous powder, $[\alpha]_D^{27} = +5.1^\circ$ ($c = 0.3$, MeOH). Source: AI LI SI DUO KONG JUN *Polyporus ellisii*. Ref: 2435.

**3422 (22Z,24S)-Cerevisterol**

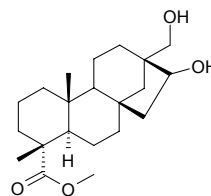
C₂₈H₄₆O₃ (430.68). White lamellar crystals (Me₂CO) mp 240–242°C. Source: YA RONG GAI RU GU *Lactarius subvellereus*. Ref: 801.

**3423 Ceriopsin A**

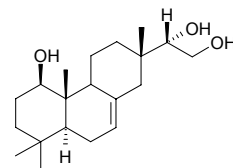
C₂₁H₃₂O₄ (348.49). Colorless needles (MeOH). mp 135–139°C, $[\alpha]_D^{25} = -47.0^\circ$ ($c = 0.6$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 1970.

**3424 Ceriopsin B**

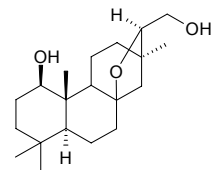
C₂₁H₃₄O₄ (350.50). Colorless needles (MeOH), mp 164–166°C, $[\alpha]_D^{25} = -37.5^\circ$ ($c = 0.80$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 1970.

**3425 Ceriopsin C**

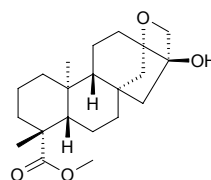
C₂₀H₃₄O₃ (322.49). Colorless oil, $[\alpha]_D^{25} = +3.0^\circ$ ($c = 0.4$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 1970.

**3426 Ceriopsin D**

C₂₀H₃₄O₃ (322.49). Colorless oil, $[\alpha]_D^{25} = +50.6^\circ$ ($c = 1.5$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 1970.

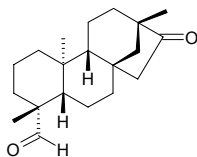
**3427 Ceriopsin F**

Methyl *ent*-13,17-epoxy-16-hydroxykauran-19-oate C₂₁H₃₂O₄ (348.49). Colorless needles (MeOH), mp 130–133°C, $[\alpha]_D^{25} = +40.2^\circ$ ($c = 0.4$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 2053.

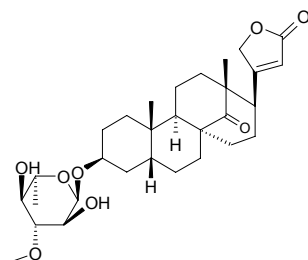


3428 Ceriopsin G

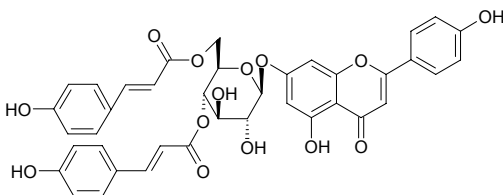
ent-16-Oxobeyeran-19-al C₂₀H₃₀O₂ (302.46). Colorless oil, $[\alpha]_D^{25} = -49.0^\circ$ ($c = 0.25$, CHCl₃). Source: SHI XIONG RUI JIAO GUO MU *Ceriops decandra*. Ref: 2053.

**3429 Cerleaside A**

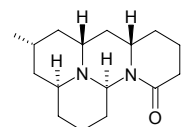
C₃₀H₄₄O₈ (532.68). Pharm: Cytotoxic (KB, inactive, ED₅₀ > 50 μg/mL; BC, ED₅₀ = 9.12 μg/mL; NCI-H187, inactive, ED₅₀ > 50 μg/mL; control Ellipticine, ED₅₀ = 0.3–0.6 μg/mL). Source: AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed). Ref: 3777.

**3430 Cernoside**

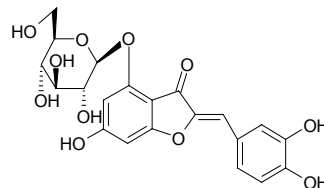
C₃₉H₃₂O₁₄ (724.68). mp 225–230°C (dec). Source: PU DI WU GONG *Lycopodium cernuum*. Ref: 6.

**3431 Cernuine**

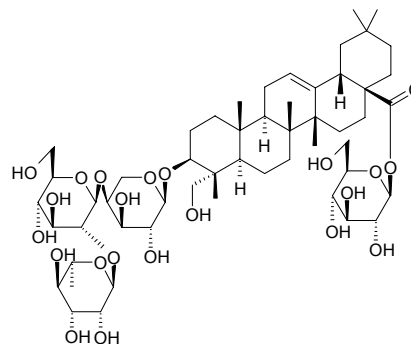
[6880-84-8] C₁₆H₂₆N₂O (262.40). mp 106°C. Pharm: Low toxin. Source: PU DI WU GONG *Lycopodium cernuum*, KA LUO LAI NA SHI SONG *Lycopodium carolinianum*. Ref: 6, 658.

**3432 Cernuoside**

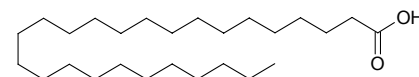
[480-69-3] C₂₁H₂₀O₁₁ (448.39). Yellow crystals (ethanol solution), mp 250–258°C, $[\alpha]_D^{30} = -13^\circ$ (pyridine). Pharm: Pigment. Source: CHUN ZHU JU TAI *Chirita micronusa*, A ER JI LI YA BU XUE CAO *Limonium bonduellii*, SHI HU DIE *Petrocosmea kerrii*, YU YE JIN HUA *Mussaenda hirsutissim*, *Oxalis cernua*. Ref: 2109.

**3433 Cernuoside C**

3-*O*- α -L-Rhamnopyranosyl-(1→2)[β -D-glucopyranosyl(1→4)]- α -L-arabinopyranosyl hederagenin 28-*O*-D-glucopyranosyl ester C₅₃H₈₆O₂₂ (1075.26). White powder, mp 234–236°C, $[\alpha]_D^{20} = +1.9^\circ$ ($c = 0.26$, CH₃OH). Source: CHAO XIAN BAI TOU WENG *Pulsatilla cernua*. Ref: 860.

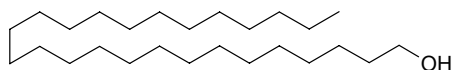
**3434 Cerotic acid**

Hexacosanoic acid [506-46-7] C₂₆H₅₂O₂ (396.70). Colorless acicular crystals, mp 87.7–87.9°C. Pharm: Platelet aggregation inhibitor (washed rabbit platelets, 50 μg/mL, 100 μmol/L AA-induced, AggRt = 18.4%, control 50 μmol/L Aspirin, AggRt = 100%; 10 μg/mL collagen-induced, AggRt = 4.2%, 100 μmol/L Aspirin, AggRt = 4.9%; 0.1 U/mL thrombin-induced, AggRt = 3.0%, 100 μmol/L Aspirin, AggRt = 1.7%; 2 ng/mL PAF-induced, AggRt = 5.0%, 100 μmol/L Aspirin, AggRt = 2.1%)^[5427]. Source: CHONG BAI LA *Ericerus pela*, JIN QUE GEN *Caragana sinica*, SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YAO YONG PU GONG YING *Taraxacum officinale*. Ref: 2, 6, 455, 660, 5427.

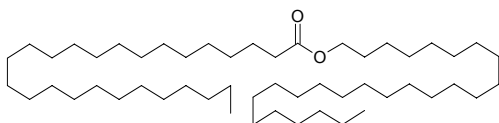


3435 Ceryl alcohol

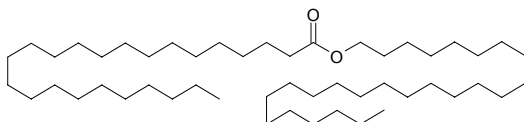
Hexacosanol-1 [506-52-5] $C_{26}H_{54}O$ (382.72). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*, BAI GUO *Ginkgo biloba*. Ref: 2, 660.

**3436 Ceryl cerotate**

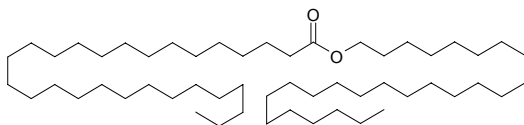
$C_{52}H_{104}O_2$ (761.41). mp 82~84°C. Source: CHONG BAI LA *Ericerus pela*. Ref: 6.

**3437 Ceryl lignocerate**

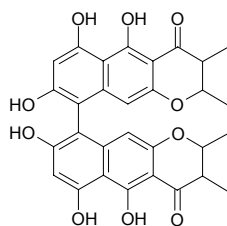
$C_{50}H_{100}O_2$ (733.35). Source: CHONG BAI LA *Ericerus pela*. Ref: 6.

**3438 Ceryl montanate**

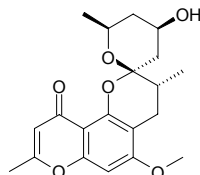
$C_{54}H_{108}O_2$ (789.46). Source: CHONG BAI LA *Ericerus pela*. Ref: 6.

**3439 Chaetochromin A**

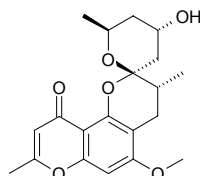
[75514-37-3] $C_{30}H_{62}O_{10}$ (546.54). Source: *Chaetomium thielavioideum*. Ref: 1521.

**3440 Chaetoquadrin A**

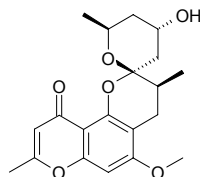
CQ-1 $C_{20}H_{24}O_6$ (360.41). Colorless amorphous. Pharm: MAO inhibitor (mus liver, 25µg/mL, InRt = 7.7%, control Luteusin A, IC_{50} = 6.6µmol/L, GP-A, IC_{50} = 2.7µmol/L, Monankarin, IC_{50} = 16µmol/L, Coniochaetone A, IC_{50} = 29µmol/L). Source: SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. Ref: 4167.

**3441 Chaetoquadrin B**

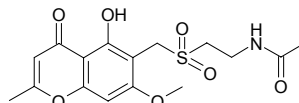
CQ-2 $C_{20}H_{24}O_6$ (360.41). Colorless amorphous. Pharm: MAO inhibitor (mus liver, 25µg/mL, InRt = 17.5%, control Luteusin A, IC_{50} = 6.6µmol/L, GP-A, IC_{50} = 2.7µmol/L, Monankarin, IC_{50} = 16µmol/L, Coniochaetone A, IC_{50} = 29µmol/L). Source: SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. Ref: 4167.

**3442 Chaetoquadrin C**

CQ-3 $C_{20}H_{24}O_6$ (360.41). Colorless amorphous. Pharm: MAO inhibitor (mus liver, 25µg/mL, InRt = 31.9%, control Luteusin A, IC_{50} = 6.6µmol/L, GP-A, IC_{50} = 2.7µmol/L, Monankarin, IC_{50} = 16µmol/L, Coniochaetone A, IC_{50} = 29µmol/L). Source: SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. Ref: 4167.

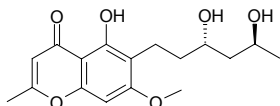
**3443 Chaetoquadrin D**

CQ-4 $C_{16}H_{19}NO_7S$ (369.40). White powder (aqueous CH_3CN), mp 216~219°C. Pharm: MAO inhibitor (mus liver, IC_{50} = 0.038mmol/L = 0.014mg/mL, control Luteusin A, IC_{50} = 6.6µmol/L, GP-A, IC_{50} = 2.7µmol/L, Monankarin, IC_{50} = 16µmol/L, Coniochaetone A, IC_{50} = 29µmol/L). Source: SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. Ref: 4167.

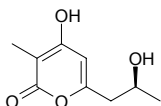


3444 Chaetoquadrin E

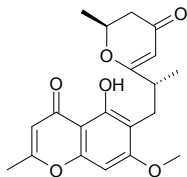
CQ-5 C₁₇H₂₂O₆ (322.36). White powder (aqueous CH₃CN), mp 100~102°C, [α]_D²⁰ = +11.5° (c = 0.20, MeOH). **Pharm:** MAO inhibitor (mus liver, 25µg/mL, InRt = 8.8%, control Luteusin A, IC₅₀ = 6.6µmol/L, GP-A, IC₅₀ = 2.7µmol/L, Monankarin, IC₅₀ = 16µmol/L, Coniochaetone A, IC₅₀ = 29µmol/L). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4167.

**3445 Chaetoquadrin F**

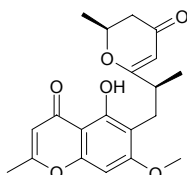
C₉H₁₂O₄ (184.19). White powder (CHCl₃), mp 139~141°C, [α]_D²⁰ = +35.0° (c = 0.2, MeOH). **Pharm:** MAO inhibitor (mouse liver MAO, 100µg/mL, InRt = 0.5%, 25µg/mL, InRt = 3.8%, 10µg/mL, InRt = -1.7%). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

**3446 Chaetoquadrin G**

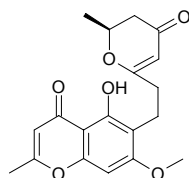
C₂₀H₂₂O₆ (358.39). White powder (CH₃CN), mp 108~110°C, [α]_D²⁰ = -131.4° (c = 0.2, CHCl₃). **Pharm:** MAO inhibitor (mouse liver MAO, 100µg/mL, InRt = 48.0%, 25µg/mL, InRt = 23.5%, 10µg/mL, InRt = 12.1%, IC₅₀ = 450µmol). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

**3447 Chaetoquadrin H**

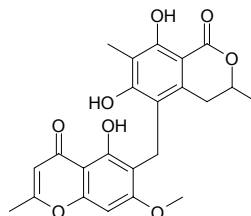
C₂₀H₂₂O₆ (358.39). White powder (CH₃CN), mp 108~110°C, [α]_D²⁰ = -57.2° (c = 0.2, CHCl₃). **Pharm:** MAO inhibitor (mouse liver MAO, 100µg/mL, InRt = 56.0%, 25µg/mL, InRt = 28.0%, 10µg/mL, InRt = 13.7%, IC₅₀ = 230µmol). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

**3448 Chaetoquadrin I**

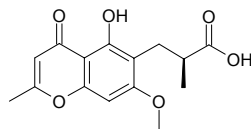
C₁₉H₂₀O₆ (344.37). Colorless amorphous, [α]_D²⁰ = -40.8° (c = 0.05, CHCl₃). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

**3449 Chaetoquadrin J**

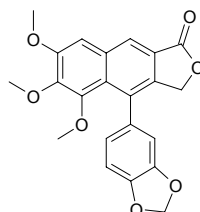
C₂₃H₂₂O₈ (426.43). White powder (MeOH), mp 253~255°C, [α]_D²⁰ = -30.9° (c = 0.2, CHCl₃). **Pharm:** MAO inhibitor (mouse liver MAO, 100µg/mL, InRt = 4.5%, 25µg/mL, InRt = 1.9%, 10µg/mL, InRt = 3.6%). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

**3450 Chaetoquadrin K**

C₁₃H₁₆O₆ (292.29). White powder (CH₃CN), mp 166~169°C, [α]_D²⁰ = -2.5° (c = 0.3, CHCl₃). **Pharm:** MAO inhibitor (mouse liver MAO, 100µg/mL, InRt = 8.6%, 25µg/mL, InRt = 5.3%, 10µg/mL, InRt = 4.8%). **Source:** SI LENG JIAO MAO KE JUN *Chaetomium quadrangulatum*. **Ref:** 4318.

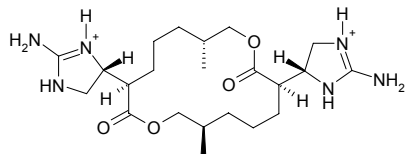
**3451 Chaihunaphthone**

C₂₂H₁₈O₇ (394.38). White needle crystals, mp 164~166°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium* (root). **Ref:** 3498.

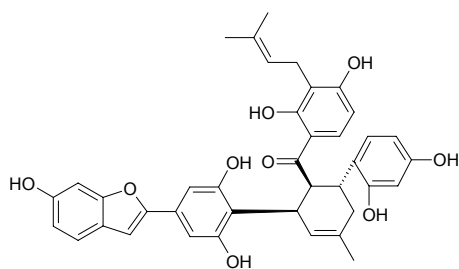


3452 Chaksine

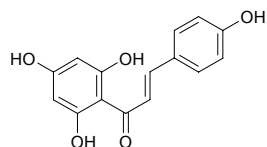
[486-53-3] $C_{22}H_{40}N_6O_4^{+2}$ (452.60). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *B. typhosus* and hemolytic streptococcus); uterine stimulant; inhibits intestine and other smooth muscle movement; MLD (rbt) = 80mg/kg. **Source:** A SU JUE MING *Cassia absus*. **Ref:** 658.

**3453 Chalcomoracin**

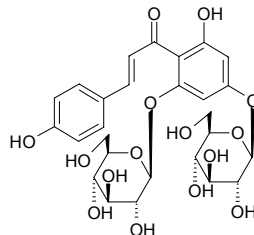
$C_{39}H_{36}O_9$ (648.72). **Pharm:** Antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 3.13µg/mL, control Linezolid, MIC = 1.56µg/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 3.13µg/mL, Linezolid, MIC = 0.78µg/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 3.13µg/mL, Linezolid, MIC = 0.78µg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25µg/mL, Linezolid, MIC = 1.56µg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 3.13µg/mL, Linezolid, MIC = 0.78µg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13µg/mL, Linezolid, MIC = 1.56µg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 3.13µg/mL, Linezolid, MIC = 0.78µg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 3.13µg/mL, Linezolid, MIC = 1.56µg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13µg/mL, Linezolid, MIC = 0.78µg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 3.13µg/mL, Linezolid, mean MIC₈₀ = 0.78µg/mL)^[5007]. **Source:** CAN SANG *Morus bombycis*. **Ref:** 5007.

**3454 Chalconaringenin**

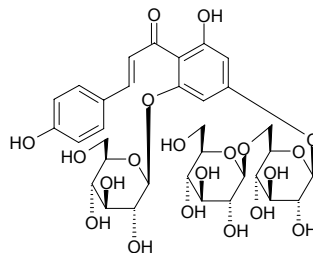
[5071-40-9] $C_{15}H_{12}O_5$ (272.26). **Pharm:** Iodinate thyronine deiodinase inhibitor (rat liver cells). **Source:** SHUI YANG ZHI YE *Salix purpurea*, *Dianthus* sp., *Helichrysum* sp., *Paeonia* sp. **Ref:** 658.

**3455 Chalconaringenin 2',4'-di-O-β-D-glucoside**

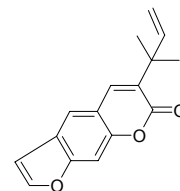
$C_{27}H_{32}O_{15}$ (596.55). Yellow powder. **Source:** JIA NA DA XI XIN *Asarum canadense* (leaf). **Ref:** 5120.

**3456 Chalconaringenin 2'-O-β-D-glucoside-4'-O-β-gentiobioside**

$C_{23}H_{42}O_{20}$ (758.69). Yellow powder. **Source:** JIA NA DA XI XIN *Asarum canadense* (leaf). **Ref:** 5120.

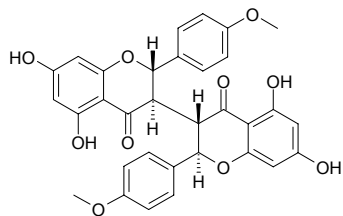
**3457 Chalepensin**

[13164-03-9] $C_{16}H_{14}O_3$ (254.29). mp 80~90°C. **Pharm:** Phytogrowth inhibitor (100µg/mL, *Amaranthus hypochondriacus*, InRt = (22.0±0.6)%, $P < 0.05$; *E. crusgalli*, InRt = (108±2)%)^[5253], cytotoxic (*in vitro*, A549, ED₅₀ = 7.7µg/mL, control Adriamycin, ED₅₀ = 0.0322µg/mL; MCF7, ED₅₀ = 5.7µg/mL, Adriamycin, ED₅₀ = 0.0204µg/mL; HT29, ED₅₀ = 3.5µg/mL, Adriamycin, ED₅₀ = 0.0421µg/mL; A498, ED₅₀ = 9.5µg/mL, Adriamycin, ED₅₀ = 0.00348µg/mL; PC3, ED₅₀ = 17.8µg/mL, Adriamycin, ED₅₀ = 0.241µg/mL; PACA-2, ED₅₀ = 5.2µg/mL, Adriamycin, ED₅₀ = 0.0120µg/mL)^[5253]; contraceptive (rat, anti-fecundation in innocuous dose). **Source:** CHOU CAO *Ruta graveolens*, *Boenninghausenia* sp., *Stauranthus perforatus* (root). **Ref:** 6, 658, 5253.

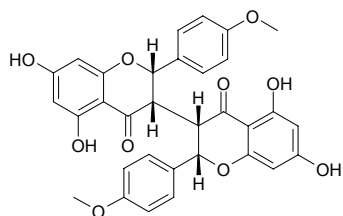


3458 Chamaejasmenin A

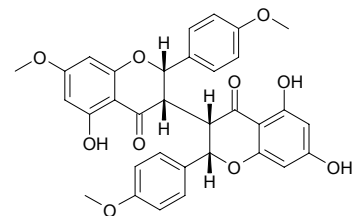
$C_{32}H_{26}O_{10}$ (570.56). **Pharm:** Antimitotic and antifungal (*Pyricularia oryzae*, 25 μ g/mL, middle inhibition, 50 μ g/mL, complete inhibition). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4476.

**3459 Chamaejasmenin B**

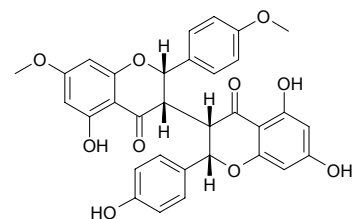
$C_{32}H_{26}O_{10}$ (570.56). **Pharm:** Antimitotic and antifungal (*Pyricularia oryzae*, 100 μ g/mL, middle inhibition). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4476.

**3460 Chamaejasmenin C**

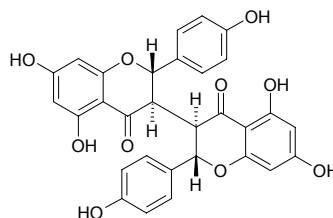
$C_{33}H_{28}O_{10}$ (584.59). **Pharm:** Antimitotic and antifungal inactive (*Pyricularia oryzae*, 400 μ g/mL). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4476.

**3461 Chamaejasmenin D**

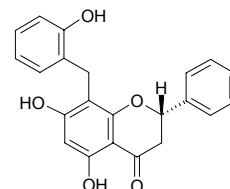
$C_{32}H_{26}O_{10}$ (570.56). White amorphous powder, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.01$, MeOH). **Pharm:** Antimitotic and antifungal (*Pyricularia oryzae*, 25 μ g/mL, strong inhibition, 100 μ g/mL, complete inhibition). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4476.

**3462 (+)-Chamaejasmin**

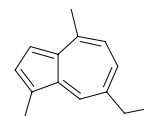
$C_{30}H_{22}O_{10}$ (542.50). Yellowish powder, mp > 300°C (MeOH), $[\alpha]_D^{20} = +50^\circ$ ($c = 0.46$, MeOH); $[\alpha]_D^{25} = -39.4^\circ$ ($c = 0.7$, $CHCl_3$). **Pharm:** Anti-inflammatory (acute inflammation model, carrageenan-induced mouse paw oedema, 3h after 50mg/kg challenge, oedema inhibition = 46%)^[5459]; anti-inflammatory (chronic inflammation model, in the form of eczema, provoked by repeated administration of TPA to the ears of mouse, swelling reduction = 26%, control Dexamethasone, swelling reduction = 85%)^[5459]; LTB₄ production inhibitor (rat peritoneal polymorphonuclear leukocytes, IC₅₀ = 29.8 μ mol/L)^[4577]. **Source:** LANG DU *Stellera chamaejasme*, ROU MAO XIAO RU XIANG *Schinus molle* (fruit). **Ref:** 4577, 5459.

**3463 Chamanetin**

[58801-43-7] $C_{22}H_{18}O_5$ (362.39). mp 210–211°C (benzene). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 6.3 μ g/mL; *Bacillus subtilis*, MIC = 6.3 μ g/mL; *Mycobacterium smegmatis*, MIC = 25 μ g/mL). **Source:** AN ZI YU PAN *Uvaria chamae*. **Ref:** 661.

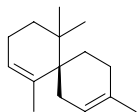
**3464 Chamazulene**

Dimethylene [529-05-5] $C_{14}H_{16}$ (184.28). bp 161°C/12mmHg. **Pharm:** Antifungal; anti-inflammatory. **Source:** BAI YE JING JIE *Nepeta leucophylla*, GUANG RONG YIN YU *Skimmia laureola*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], SHE XIANG SHI CAO *Achillea moschata*, WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*], YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*], ZHONG YA KU HAO *Artemisia absinthium*. **Ref:** 1, 6.

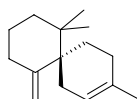


3465 α -Chamigrene

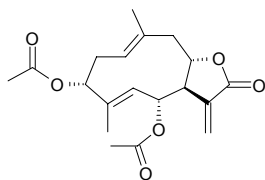
[19912-83-5] C₁₅H₂₄ (204.36). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**3466 β -Chamigrene**

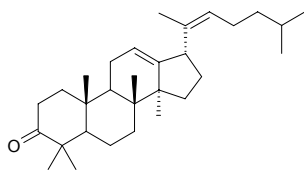
[18431-82-8] C₁₅H₂₄ (204.36). bp 110~113°C/13mmHg. Source: CANG ZHU *Atractylodes lancea*, CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], DANG GUI *Angelica sinensis*, WU WEI ZI *Schisandra chinensis*. Ref: 2, 6, 660.

**3467 Chamissonin diacetate**

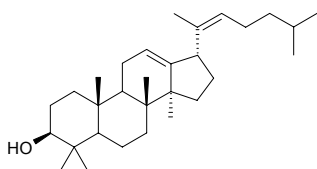
C₁₉H₂₄O₆ (348.40). Pharm: Antineoplastic; cytotoxic. Source: CI GUO TUN CAO *Ambrosia acanthicarpa*. Ref: 658.

**3468 Champalin A**

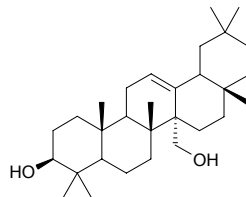
Damma-12,20(22)Z-dien-3-one C₃₀H₄₈O (424.72). Amorphous powder, $[\alpha]_D^{27} = +43.1^\circ$ ($c = 0.58$, CHCl₃). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf and stem cortex). Ref: 3824.

**3469 Champalin B**

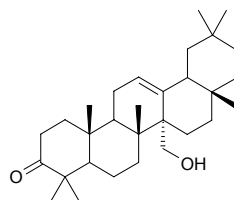
Damma-12,20(22)Z-dien-3 β -ol C₃₀H₅₀O (426.73). Colorless oil, $[\alpha]_D^{27} = +44.2^\circ$ ($c = 0.04$, CHCl₃). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf and stem cortex). Ref: 3824.

**3470 Champalinol**

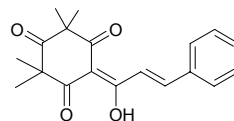
Olean-12-en-3 β ,27-diol C₃₀H₅₀O₂ (442.73). Amorphous powder, $[\alpha]_D^{27} = +42.1^\circ$ ($c = 0.80$, CHCl₃). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf and stem cortex). Ref: 3824.

**3471 Champalinone**

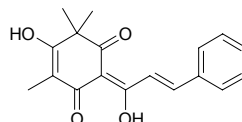
27-Hydroxyolean-12-en-3-one C₃₀H₄₈O₂ (440.72). Colorless amorphous powder. Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf and stem cortex). Ref: 3824.

**3472 Champanone A**

2,2,4,4-Tetramethyl-6-(1-oxo-3-phenylprop-2-enyl)cyclohexane-1,3,5-trione C₁₉H₂₀O₄ (312.37). Yellow needles, mp 92~93°C. Pharm: Antibacterial (*Micrococcus luteus*, MIC = 30 μ g/mL; *Staphylococcus aureus*, MIC = 30 μ g/mL; *Bacillus subtilis*, MIC = 30 μ g/mL; *Pseudomonas aeruginosa*, MIC = 30 μ g/mL; *Streptococcus faecalis*, MIC = 15 μ g/mL)^[5313]. Source: *Campomanesia lineatifolia* (seed). Ref: 5313.

**3473 Champanone B**

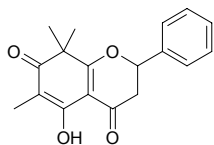
2,2,4-Trimethyl-6-(1-oxo-3-phenylprop-2-enyl)cyclohexane-1,3,5-trione C₁₈H₁₈O₄ (298.34). Yellow needles, mp 134~135°C. Pharm: Antibacterial (*Micrococcus luteus*, MIC = 30 μ g/mL)^[5313]. Source: *Campomanesia lineatifolia* (seed). Ref: 5313.



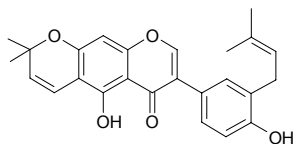
3474 Champanone C

2,3-Dihydro-5-hydroxy-6,8,8-trimethyl-2-phenyl-4*H*-1-benzopyran-4,7(8*H*)-dione C₁₈H₁₈O₄ (298.34). Yellow needles, mp 147~148°C. **Pharm:**

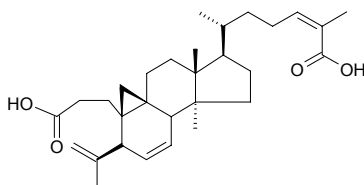
Antibacterial (*Bacillus subtilis*, MIC = 30µg/mL; *Streptococcus faecalis*, MIC = 30µg/mL). **Source:** *Campomanesia lineatifolia* (seed). **Ref:** 5313.

**3475 Chandalone**

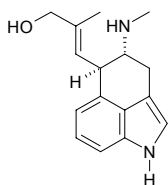
C₂₅H₂₄O₅ (404.47). **Pharm:** Antioxidant (DPPH scavenger, ScRt = 18.42%, control BHT, ScRt = 71.5%)^[3810]; antioxidant (DPPH scavenger, 10µmol/L, ScRt = 20%, control BHT, 10µmol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 128µg/mL, Vancomycin, MIC = 0.5µg/mL; MRSA SK1, MIC = 16µg/mL, Vancomycin, MIC = 1.0µg/mL)^[3810]; increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 4.0mg/kg, 11.67mmHg)^[3810]. **Source:** PAN YUAN YU TENG *Derris scandens* (stem), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 1521, 3810, 5319.

**3476 Changnanic acid**

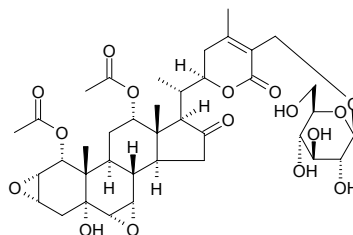
[136040-44-3] C₃₀H₄₄O₄ (468.68). **Pharm:** Cytotoxic (P₃₈₈ *in vitro*, ED₅₀ = 1.0µg/mL)^[2436]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. **Ref:** 2436, 2523.

**3477 Chanoclavine**

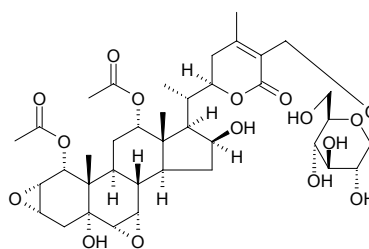
[2390-99-0] C₁₆H₂₀N₂O (256.35). mp 220~222°C (dec). **Pharm:** Hallucinogen. **Source:** MAI JIAO *Claviceps purpurea*, QIAN NIU ZI *Pharbitis nil*, QING ZI QIAN NIU *Ipomoea violacea*, SAN SE QIAN NIU *Ipomoea tricolor*, YIN YE SHU *Ipomoea argyrophylla*. **Ref:** 6, 658.

**3478 Chantriolide A**

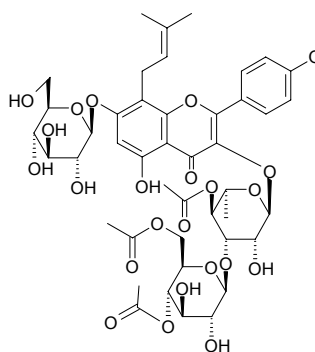
(22*R*)-1*α*,12*α*-Diacetoxy-2*α*,3*α*,6*α*,7*α*-diepoxy-27-[(*β*-*D*-glucopyranosyl)oxy]-5*α*-hydroxy-16-oxowith-24-enolide C₃₈H₅₂O₁₆ (764.83). Amorphous solid, [α]_D²⁵ = -4.0° (c = 0.10, MeOH). **Source:** JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00045%dw). **Ref:** 4700.

**3479 Chantriolide B**

(22*R*)-1*α*,12*α*-Diacetoxy-2*α*,3*α*,6*α*,7*α*-diepoxy-27-[(*β*-*D*-glucopyranosyl)oxy]-5*α*,-16*β*-dihydroxywith-24-enolide C₃₈H₅₄O₁₆ (766.84). Amorphous solid, [α]_D²⁵ = +54.0° (c = 0.10, MeOH). **Source:** JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00059%dw). **Ref:** 4700.

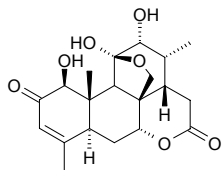
**3480 Chaohuocide A**

7-*O*-*β*-*D*-Glucopyranosyl-anhydroicaritin-3-*O*-*β*-*D*-(3,6-*O*-diacetyl)-glucopyranosyl-(1→3)-*α*-*L*-(4-*O*-acetyl)-rhamnopyranoside C₄₅H₅₆O₂₃ (964.93). Yellow powder, mp 144~155.5°C, [α]_D¹⁸ = -86° (c = 0.01, methanol). **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum*. **Ref:** 357.

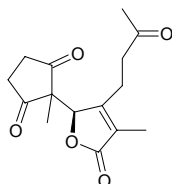


3481 Chaparrinone

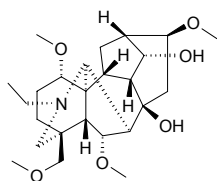
[22611-34-3] $C_{20}H_{26}O_7$ (378.43). mp 236~248°C. Pharm: Antineoplastic (P₃₈₈, 40mg/kg, biotic prolonged rate = 145%); cytotoxic (KB, ED₅₀ = 0.142μg/mL, Rous sarcoma virus *in vitro*). Source: CHU BAI PI *Ailanthus altissima*, QUAN YUAN CHU *Ailanthus integrifolia* ssp. *calycina*. Ref: 1, 5, 6.

**3482 Charminarone**

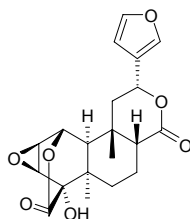
1,10-Seco-dihydroisoparthenin-1,10-dione $C_{15}H_{18}O_5$ (278.31). Viscous mass, $[\alpha]_D^{25} = -17.2^\circ$ ($c = 0.25$, $CHCl_3$). Source: YIN JIAO JU *Parthenium hysterophorus*. Ref: 3377.

**3483 Chasmanine**

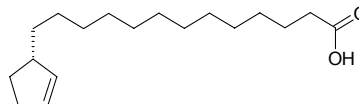
[5066-78-4] $C_{25}H_{41}NO_6$ (451.61). mp 90~91°C. Source: CU JING WU TOU *Aconitum crassicaule*, GUA YE WU TOU *Aconitum hemsleyanum*, HUANG MAO WU TOU *Aconitum chrysotrichum*, LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*], XIE XING WU TOU *Aconitum subcuneatum*, ZHAN HUA WU TOU *Aconitum chasmanthum*, ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.00097%dw)^[4678]. Ref: 513, 1521, 3171, 4678.

**3484 Chasmanthin**

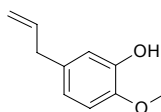
[20379-19-5] $C_{20}H_{22}O_7$ (374.39). Source: FEI ZHOU FANG JI *Jateorhiza palmata*. Ref: 658.

**3485 Chaulmoogric acid**

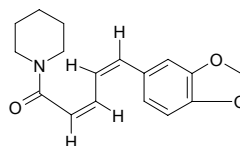
13-(2-Cyclopenten-1-yl)tridecanoic acid [29106-32-9] $C_{18}H_{32}O_2$ (280.45). mp (+) 68.5°C, (±) 68.5°C, bp (+) 247~248°C/20mmHg. Pharm: Antileprotic (inhibits *Mycobacterium leprae*, treatment of leprosy using its ethyl ester). Source: DA FENG ZI *Hydnocarpus anthelminticus* (seed: content scope = 8.55%~14.30%^[5501]). Ref: 6, 658, 5501.

**3486 Chavibetol**

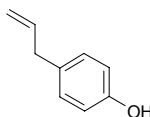
[501-19-9] $C_{10}H_{12}O_2$ (164.21). mp 8.5°C, bp 254~255°C. Source: JU JIANG YE *Piper betle*. Ref: 6.

**3487 Chavicine**

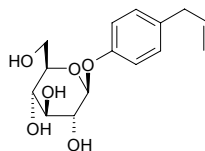
[495-91-0] $C_{17}H_{19}NO_3$ (285.35). bp 245~260°C/0.25mmHg. Source: HU JIAO *Piper nigrum*. Ref: 6.

**3488 Chavicol**

4-Allylphenol [501-92-8] $C_9H_{10}O$ (134.18). mp 16°C, bp 237°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], JU JIANG YE *Piper betle*. Ref: 6.

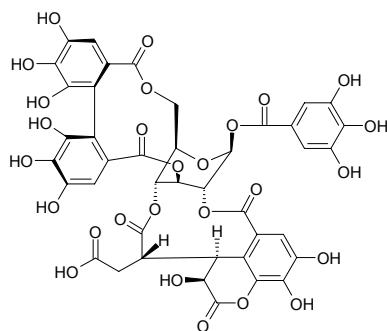
**3489 Chavicol β-D-glucoside**

$C_{15}H_{20}O_6$ (296.32). Source: BAI MEI HUA *Prunus mume* (flower: yield = 0.0014%fw). Ref: 4641.

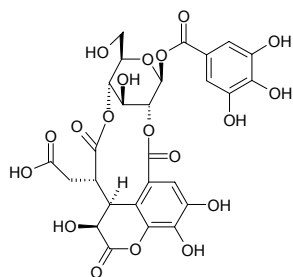


3490 Chebulagic acid

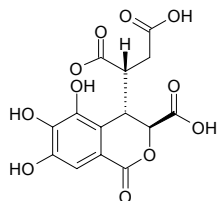
[23094-71-5] C₄₁H₃₀O₂₇ (954.68). mp > 240°C. **Pharm:** Antioxidant (lipid peroxidation inhibitor, mitochondria of hepatocyte in rat); promotes lipolysis (fat cells in rat, induced by ACTH); antibacterial (*Erwinia carotovora*, IZD = 19mm/100µg, control Quercetin sulfate, IZD = 21mm/10µg; *Staphylococcus aureus*, IZD = 11mm/100µg, Quercetin sulfate, IZD = 14mm/10µg; *Corynebacterium accolens*, IZD = 10mm/100µg, Quercetin sulfate, IZD = 28mm/10µg)^[5250]; antifungal (*Candida albicans*, IZD = 12mm/100µg, control Nystatin, IZD = 11mm/20µg)^[5250]; xanthine oxidase inhibitor (IC₅₀ = 46.3µg/mL, IC₅₀ = 48µmol/L; control Quercetin, IC₅₀ = 3.4µg/mL, IC₅₀ = 10µmol/L)^[5250]. **Source:** AN MO LE *Phyllanthus emblica* (fruit juice, branch and leaf)^[3094], CAO YUAN LAO GUAN CAO *Geranium pratense*, DA YE KU NUO NI *Cunonia macrophylla* (leaf), HE ZI *Terminalia chebula*, YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*. **Ref:** 6, 658, 3094, 5250.

**3491 Chebulanin**

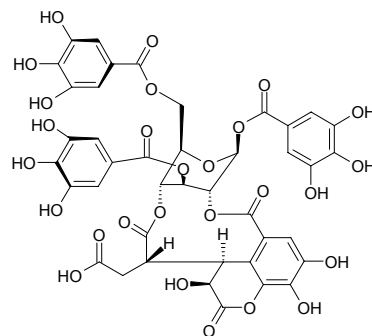
C₂₇H₂₄O₁₉ (652.48). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice, branch and leaf). **Ref:** 3094.

**3492 Chebulic acid**

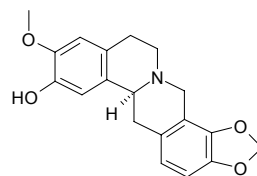
C₁₄H₁₂O₁₁ (356.25). **Source:** AN MO LE *Phyllanthus emblica*, *Schinopsis* spp. **Ref:** 1558, 3094.

**3493 Chebulinic acid**

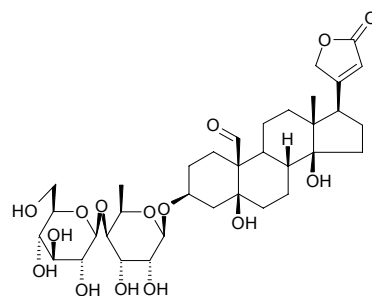
[18942-26-2] C₄₁H₃₂O₂₇ (956.70). mp 234°C. **Pharm:** Antioxidant (lipid peroxidation inhibitor, microsomes of hepatocyte in rat); promotes lipolysis (induced by ACTH). **Source:** AN MO LE *Phyllanthus emblica*, HE ZI *Terminalia chebula*, YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*. **Ref:** 6, 658.

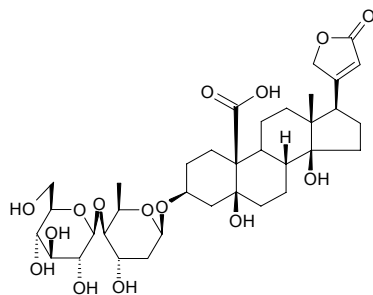
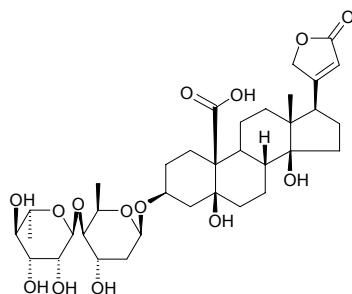
**3494 Cheilanthifoline**

[483-44-3] C₁₉H₁₉NO₄ (325.37). mp (-) 178~180°C. **Source:** BIAN FU GE GEN *Menispermum dauricum*, HE BAO MU DAN GEN *Dicentra spectabilis*, ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6.

**3495 Cheiranthoside VIII**

Strophanthidin 3-O-β-D-glucopyranosyl-(1→4)-β-D-antiaropyranoside C₃₅H₅₂O₁₅ (712.80). White powder, [α]_D³¹ = -5.2° (c = 0.42, MeOH). **Source:** GUI ZHU TANG JIE *Erysimum cheiranthoides* (seed). **Ref:** 4209.



3496 Cheiranthoside IXCheiranthidin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-boivopyranosideC₃₅H₅₂O₁₅ (712.80). White powder, $[\alpha]_D^{18} = +1.8^\circ$ ($c = 0.45$, MeOH). Source:GUI ZHU TANG JIE *Erysimum cheiranthoides* (seed). Ref: 4209.**3497 Cheiranthoside X**Cheiranthidin 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosideC₃₅H₅₂O₁₄ (696.80). White powder, $[\alpha]_D^{18} = +16.3^\circ$ ($c = 0.53$, MeOH). Source:GUI ZHU TANG JIE *Erysimum cheiranthoides* (seed). Ref: 4209.**3498 Chelerythrine**Toddaline [34316-15-9] C₂₁H₁₈NO₄⁺ (348.38). Pharm: Antibacterial;

antifungal; antiviral; causes abortion (gpg, in low dose, causes paralysis and

death in high dose); toxin (neuromuscular poison, inhibits heart); anti-HIV

inactive (H9 lymphocytes, control AZT, IC₅₀ = 500 μ g/mL, EC₅₀ =0.0317 μ g/mL, TI = 15800)^[5364]; cytotoxic (DNA intercalation anduncoupling of oxidative phosphorylation)^[1521]; aminotransferase inhibitor(rat liver)^[1521]; antimicrobial and anti-inflammatory (recommended for useagainst oral infections)^[1521]; antihypertensive (mouse, rabbit and cat)^[1521];analgesic^[1521]; sedative (lengthens sleeping time)^[1521]; protein kinase Cinhibitor^[5369]; cytotoxic (completely suppresses the growth of GI-101A

breast tumor cells stimulated by hydroxychloroquine and prednisone, blocks

expression of vascular endothelial growth factor (VEGF)mRNA in GI-101A

and HL-60 cells stimulated by 12-O-tetradecanoylphorbol 13-acetate

(TPA) or diethylstilbestrol; inhibits increased proliferation of MCF7 cells

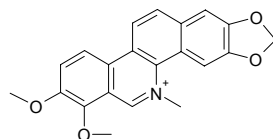
stimulated by thymeleatoxin)^[5369]; cytotoxic (inhibits proliferation of PC3hmn prostate cancer cell line, AGS gastric cancer cell line)^[5369]; cytotoxic

(series of radioresistant and chemoresistant hmn squamous cell carcinoma

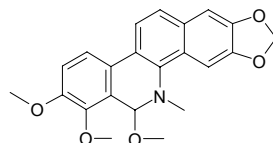
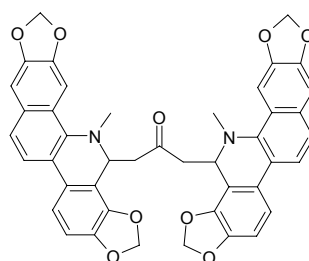
lines, causes rapidly apoptosis of carcinoma cells)^[5369]; antineoplastic (nude

mouse, radioresistant, chemoresistant and p53-deficient hmn head and neck

squamous cell carcinoma line SQ-20B with significant tumor growth delay and

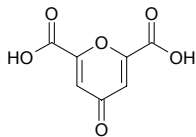
minimal toxicity)^[5369]. Source: BAI QU CAI *Chelidonium majus*, BO LUO HUI*Macleaya cordata* (whole herb: content = 8.97%^[5508]), FEI LONG ZHANGXUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], HE BAOMU DAN GEN *Dicentra spectabilis*, HE QING HUA *Hylomecon japonica*, JIYING SU *Argemone mexicana*, LI CHUN HUA *Papaver commutatum* [Syn.*Papaver rhoeas*], XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*, occursin many plants (family Papaveraceae spp. (*Argemone* spp.; *Bocconia* spp.;*Chelidonium* spp.; *Dicranostigma* spp.; *Eschscholzia* spp.; *Glaucium* spp.;*Hunnemannia* spp.; *Hylomecon* spp.; *Macleaya* spp.; *Papaver* spp.; *Sanguinaria*spp.; *Stylophorum* spp.; *Platystemon* spp.; *Stylomecon* spp.); family Rutaceae spp.(*Fagara* spp.; *Toddalia* spp.; *Zanthoxylum* spp.); family Fumariaceae spp.(*Corydalis* spp.; *Dicentra* spp.); family Sapindaceae spp. (*Pteridophyllum* spp.)).Ref: 6, 658, 1521, 5364, 5369, 5508.**3499 Chelerythrine methanolate**

6-Methoxy-5,6-dihydrochelerythrine; 6-Methoxydihydrochelerythrine

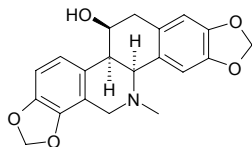
C₂₂H₂₁NO₅ (379.42). Pink prismatic crystals (methanol), mp 190°C, mp 226°C.Pharm: Antineoplastic (EAC); antimicrobial; cytotoxic (KB, *in vitro*,4–5 μ g/mL). Source: BAI QU CAI *Chelidonium majus* (whole herb: meancontent of 5 origins = 0.142%^[5508]), RU DI JIN NIU *Zanthoxylum nitidum*,FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*;*Paullinia asiatica*]. Ref: 661, 1290, 5508.**3500 meso-Chelidimerine**[39110-99-1] C₄₃H₃₂N₂O₉ (720.74). mp 258–260°C. Source: BAI QU CAI*Chelidonium majus*. Ref: 6.

3501 Chelidonic acid

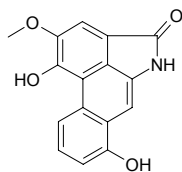
[99-32-1] $C_7H_4O_6$ (184.11). mp 262°C. Source: BAI QU CAI *Chelidonium majus*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], XIAO BAI BU *Asparagus officinalis*. Ref: 6.

**3502 Chelidonine**

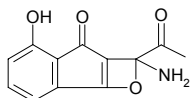
Diphylline; Stylophorin [476-32-4] $C_{20}H_{19}NO_5$ (353.38). mp 136–140°C, bp 220°C. Pharm: Antibacterial; antispasmodic (smooth muscle); antiviral; cytotoxic (HeLa, $ED_{50} = 0.27\mu\text{g/mL}$, S_{180} and EAC); inhibits cardiac muscles (slows heart rate and stops beating in period of expansion in high dose); CNS depressant (sedative and hypnotic); inhibits mitosis (fibrocyte *in vitro*, $2.5\mu\text{mol/L}$); inhibits skeletal muscles; acaricide; paralyzes sensory and motor nerve; LD_{50} (mus, iv) = $(34.6\pm 2.4)\text{mg/kg}$. Source: BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.669%)^[5508], ER YE BAO YING SU *Stylophorum diphyllum*, HE QING HUA *Hylomecon japonica*, TU CHUANG HUA *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], YE YING SU *Papaver nudicaule*. Ref: 4, 6, 590, 658, 5507, 5508.

**3503 Cheliensisam B**

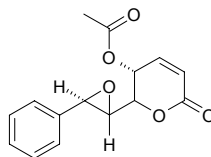
$C_{16}H_{11}NO_4$ (281.27). Source: *Goniothalamus* sp. Ref: 2447.

**3504 Cheliensisamine**

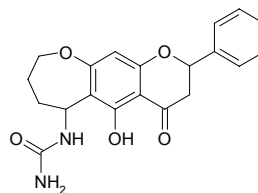
$C_{12}H_9NO_4$ (231.21). Yellow micro-acicular crystals, mp 178–180°C. Source: GE NA XIANG *Goniothalamus cheliensis*. Ref: 791.

**3505 Cheliensisin A**

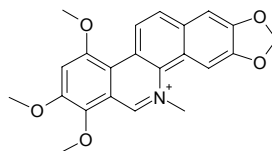
5 α -acetoxy-goniothalamine oxide $C_{15}H_{14}O_5$ (274.28). White prismatic crystals, mp 152–153°C, $[\alpha]_D^{24} = +293.45^\circ$ ($c = 1.31$, $CHCl_3$). Source: GE NA XIANG *Goniothalamus cheliensis*. Ref: 419, 660.

**3506 Cheliensisine**

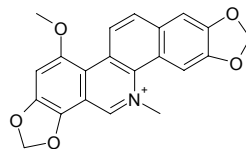
$C_{20}H_{20}N_2O_5$ (368.39). White powder, mp 224–226°C. Pharm: Antineoplastic^[2446]. Source: GE NA XIANG *Goniothalamus cheliensis*. Ref: 2446.

**3507 Chelilutine**

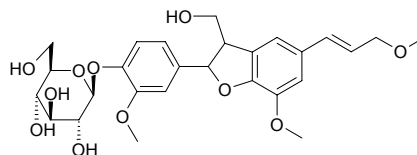
[55950-32-8] $C_{22}H_{20}NO_5^+$ (378.41). Source: BAI QU CAI *Chelidonium majus*, HE BAO MU DAN GEN *Dicentra spectabilis*, HE QING HUA *Hylomecon japonica*. Ref: 6.

**3508 Chelirubine**

[182093-11-7] $C_{21}H_{16}NO_5^+$ (362.37). Pharm: Local anesthetic; nematocide. Source: BAI QU CAI *Chelidonium majus*, HE BAO MU DAN GEN *Dicentra spectabilis*, HE QING HUA *Hylomecon japonica*. Ref: 6.

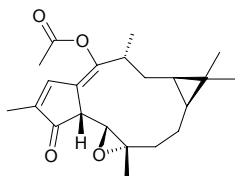
**3509 CPB-2001-49-282-32**

$C_{27}H_{34}O_{11}$ (534.57). Amorphous powder, $[\alpha]_D^{28} = -54.8^\circ$ ($c = 0.67$, MeOH). Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

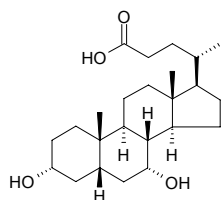


3510 CPB-2004-52-608-2

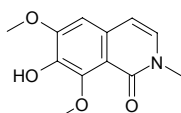
$C_{22}H_{30}O_4$ (358.48). Semi solid, $[\alpha]_D^{25} = +68.2^\circ$ ($c = 0.5$, $CHCl_3$). Source: MA FENG SHU *Jatropha curcas* (aerial parts). Ref: 4287.

**3511 Chenodeoxycholic acid**

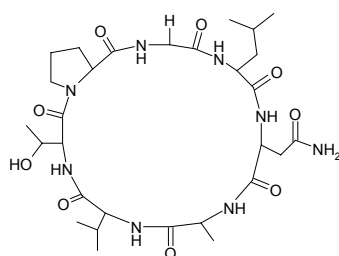
3 α ,7 α -dihydroxy-5 β -cholanic acid [474-25-9] $C_{24}H_{40}O_4$ (392.58). Pharm: Antibacterial (*Staphylococcus tetragenus*, *Staphylococcus aureus* and *Streptococcus* sp.); antihypercholesterolemic; LD₅₀ (sodium salt) = 961 mg/kg. Source: BAI E GAO *Anser cygnoides domestica*, JI NEI JIN *Gallus gallus domesticus*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: mean content = 1.71%^[5508]), XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 2, 658, 5508.

**3512 Cherianoine**

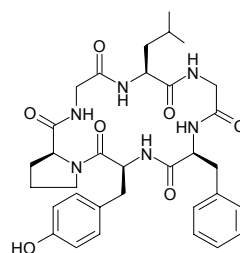
$C_{12}H_{13}NO_4$ (235.24). White acicular crystals, mp 122~124°C. Source: MAO YE FAN LI ZHI *Annona cherimolia*. Ref: 751.

**3513 Cherimolacyclopeptide D**

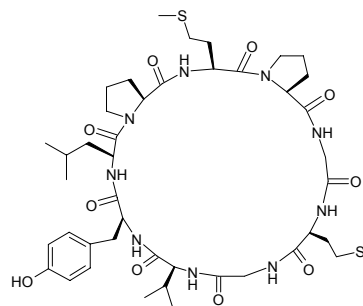
$C_{29}H_{48}N_8O_9$ (652.75). Colorless solid, mp 220~221°C, $[\alpha]_D^{22} = -64^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro* KB cell culture system, IC₅₀ = 0.97 μmol/L; control Doxorubicin, IC₅₀ = 0.02 μmol/L). Source: MAO YE FAN LI ZHI *Annona cherimolia*. Ref: 5265.

**3514 Cherimolacyclopeptide E**

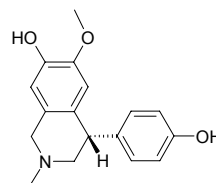
$C_{33}H_{42}N_6O_7$ (634.74). Colorless powder, mp 213~214°C (MeOH), $[\alpha]_D^{22} = -56^\circ$ ($c = 0.3$, MeOH). Pharm: Cytotoxic (KB, IC₅₀ = 0.017 μmol/L, control Doxorubicin, IC₅₀ = 0.02 μmol/L). Source: MAO YE FAN LI ZHI *Annona cherimolia* (seed). Ref: 5320.

**3515 Cherimolacyclopeptide F**

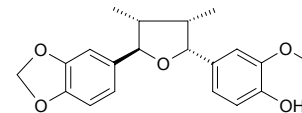
$C_{45}H_{69}N_9O_{10}S_2$ (960.23). Colorless solid, mp 139~140°C (MeOH), $[\alpha]_D^{22} = -68^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (KB, IC₅₀ = 0.06 μmol/L, control Doxorubicin, IC₅₀ = 0.02 μmol/L). Source: MAO YE FAN LI ZHI *Annona cherimolia* (seed). Ref: 5320.

**3516 Cherylline**

$C_{17}H_{19}NO_3$ (285.35). Pharm: AChE inhibitor (IC₅₀ = (211±10) μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2) μmol/L). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb), *Crinum moorei*. Ref: 4000, 4952.

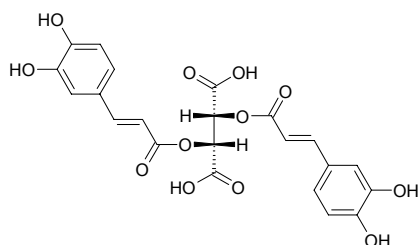
**3517 (-)-Chicanine**

$C_{20}H_{22}O_5$ (342.40). Colorless amorphous. Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, IC₅₀ = 44.1 μmol/L, control Quercetin, IC₅₀ = 26.8 μmol/L)^[2537]; antioxidant (DPPH scavenger)^[4344]. Source: FENG CHAO CAO *Leucas aspera* (whole herb), HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 2537, 4344.

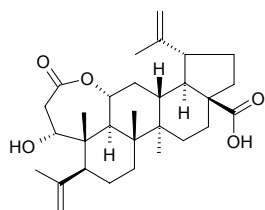


3518 Chicoric acid

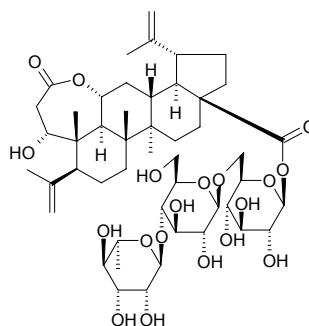
Chicoric acid [6357-80-0] $C_{22}H_{18}O_{12}$ (474.38). mp 206°C. **Pharm:** Anti-HIV-1 (HIV-1 integrase inhibitor, IC_{50} (7.4±3.3)μg/mL)^[5444]; anti-HIV (HIV-1_{III}B-induced MT-4 cells, EC_{50} = (54.33±7.60)μg/mL; CC_{50} > 150μg/mL, SI > (2.81±0.39))^[5444]. **Source:** JU QU *Cichorium intybus*. **Ref:** 6, 5444.

**3519 Chiisanogenin**

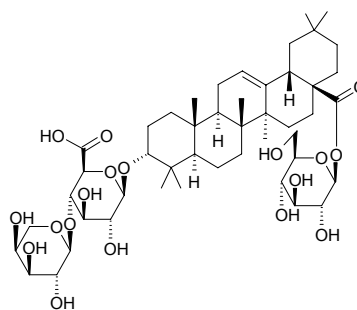
$C_{30}H_{44}O_5$ (484.68). **Pharm:** Platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC_{50} = (574±13)μmol/L, control ASA, IC_{50} = (420±3)μmol/L; 1~4μmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC_{50} = (2.5±0.2)μmol/L, ASA, IC_{50} = (53.0±4.5)μmol/L; 10~40μmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC_{50} = (4.81±0.32)μmol/L, ASA, IC_{50} = (66.0±2.1)μmol/L; 1~5μmol/L PGH_2/TXA_2 receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC_{50} = (6.21±0.12)μmol/L, ASA, IC_{50} = (340±12)μmol/L). **Source:** CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit). **Ref:** 4994.

**3520 Chiisanoside**

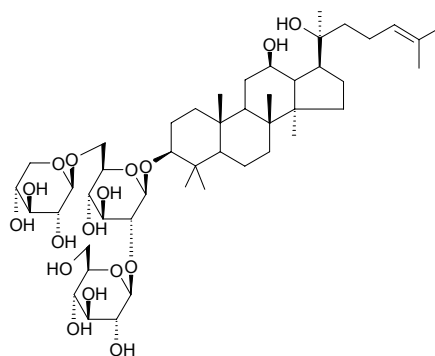
$C_{48}H_{74}O_{19}$ (955.11). **Pharm:** Platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC_{50} = (574±11)μmol/L, control ASA, IC_{50} = (420±3)μmol/L; 1~4μmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC_{50} = (367±13)μmol/L, ASA, IC_{50} = (53.0±4.5)μmol/L; 10~40μmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC_{50} = (985±11)μmol/L, ASA, IC_{50} = (66.0±2.1)μmol/L; 1~5μmol/L PGH_2/TXA_2 receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC_{50} > 1000μmol/L, ASA, IC_{50} = (340±12)μmol/L). **Source:** CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit). **Ref:** 4994.

**3521 Chikusetsu saponin Ib**

[59252-87-8] $C_{47}H_{74}O_{18}$ (927.10). White crystalline powder, mp 233~235°C, $[\alpha]_D^{20}$ = -21.7° (c = 0.1, MeOH). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 462.

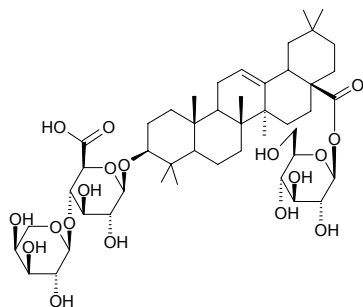
**3522 Chikusetsusaponin III**

$C_{47}H_{80}O_{17}$ (917.15). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5004.

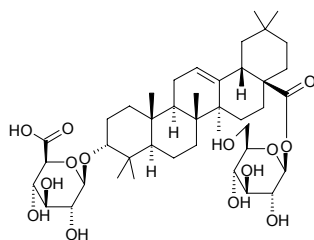


3523 Chikusetsusaponin IV

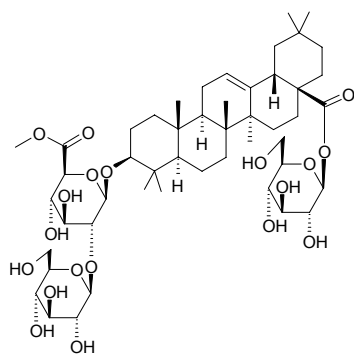
$C_{47}H_{74}O_{18}$ (927.10). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 5004.

**3524 Chikusetsu saponin Iva**

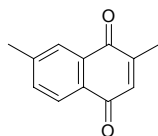
[51415-02-2] $C_{42}H_{66}O_{14}$ (794.99). mp 214–216°C. Source: PENG XIAN XUE DAN *Hemsleya pengxianensis*. Ref: 554.

**3525 Chikusetsu saponin V methyl ester**

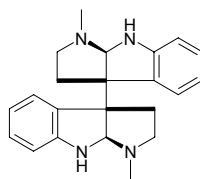
$C_{49}H_{78}O_{19}$ (971.16). White amorphous powder, $[\alpha]_D^{25} = +6^\circ$ ($c = 0.07$, MeOH). Source: NIU XI *Achyranthes bidentata*. Ref: 4147.

**3526 Chimaphyllin**

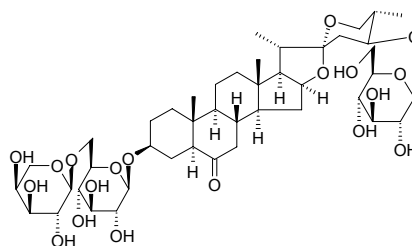
[482-70-2] $C_{12}H_{10}O_2$ (186.21). mp 113.5–114.5°C. Pharm: Inhibits phagocytosis of hmn granular cells and stimulates the activity in low dose. Source: HONG HUA LU TI CAO *Pyrola incarnata*, LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], RI BEN LU TI CAO *Pyrola japonica*. Ref: 6, 658, 660.

**3527 Chimonanthine**

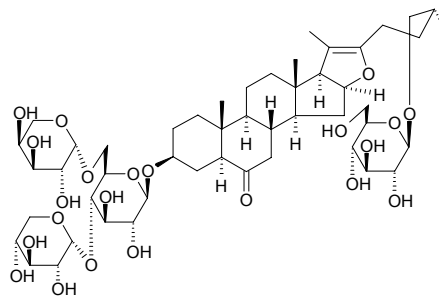
[5545-89-1] $C_{22}H_{26}N_4$ (346.48). mp 188–189°C. Source: LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*]. Ref: 6.

**3528 Chinenoside VI**

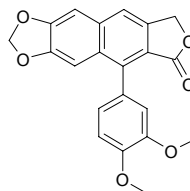
(25S)-24-O-β-D-Glucopyranosyl-3β,24β-dihydroxy-5α-spirost-3-O-α-arabino pyranosyl-(1→6)-β-D-glucopyranoside $C_{44}H_{70}O_{19}$ (903.04). White amorphous powder, mp 219–221°C. Source: XIE BAI *Allium macrostemon*. Ref: 409.

**3529 Chinenoside II**

$C_{49}H_{78}O_{22}$ (1019.15). Pharm: Antineoplastic (strong). Source: QIAO TOU *Allium chinense*. Ref: 2165.

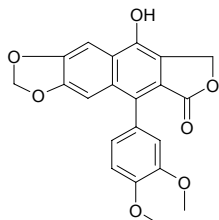
**3530 Chinensin**

[31888-76-3] $C_{21}H_{16}O_6$ (364.36). mp 220–221°C. Source: DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. Ref: 6.

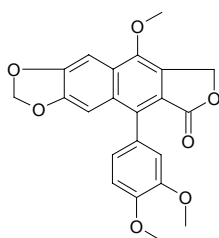


3531 Chinensinaphthol

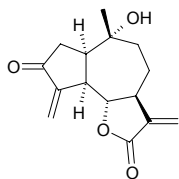
[53965-06-3] $C_{21}H_{16}O_7$ (380.36). mp 285~286°C. Source: DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*], HONG CHAI HU *Bupleurum scorzonerifolium* (root). Ref: 6, 3498.

**3532 Chinensinaphthol methyl ether**

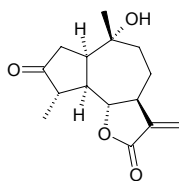
$C_{22}H_{18}O_7$ (394.38). mp 257~258°C. Source: DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. Ref: 6.

**3533 Chinensiolide A**

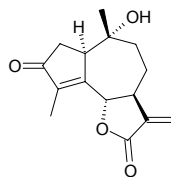
$C_{15}H_{18}O_4$ (262.31). Colorless plates, mp 110.5~112°C, $[\alpha]_D^{20} +13.3^\circ$ ($c = 0.015$, $CHCl_3$). Source: SHAN KU MAI *Ixeris chinensis* (whole herb: yield = 0.0002%fw). Ref: 4670.

**3534 Chinensiolide B**

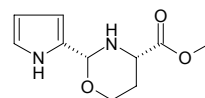
$C_{15}H_{20}O_4$ (264.32). Colorless plates, mp 195~199.5°C, $[\alpha]_D^{20} +2.6^\circ$ ($c = 0.469$, $CHCl_3$). Source: SHAN KU MAI *Ixeris chinensis* (whole herb: yield = 0.0007%fw). Ref: 4670.

**3535 Chinensiolide C**

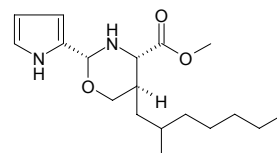
$C_{15}H_{18}O_4$ (262.31). Colorless microcrystals, 185.5~186.5°C, $[\alpha]_D^{20} +73.2^\circ$ ($c = 1.07$, MeOH). Source: SHAN KU MAI *Ixeris chinensis* (whole herb: yield = 0.0010%fw). Ref: 4670.

**3536 Chinese bittersweet alkaloid I**

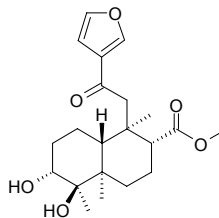
$C_{10}H_{14}N_2O_3$ (210.23). Colorless oil, $[\alpha]_D^{20} = -0.12^\circ$ ($c = 0.45$, $CHCl_3$). Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2425.

**3537 Chinese bittersweet alkaloid II**

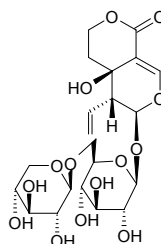
$C_{18}H_{30}N_2O_3$ (322.45). Yellowish liquid. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2425.

**3538 Chiromodine**

[125107-28-0] $C_{20}H_{30}O_6$ (378.47). Source: *Croton hovarum*. Ref: 4552.

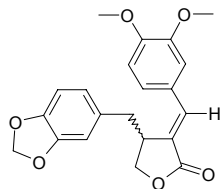
**3539 Chironiside**

6'-O-β-D-Xylopyranosylswertiamarin $C_{21}H_{30}O_{14}$ (506.46). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

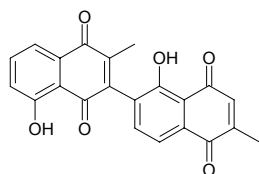


3540 Chisulactone

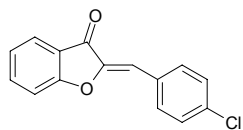
[50924-59-9] C₂₁H₂₀O₆ (368.39). mp 108–110°C. Source: DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. Ref: 6.

**3541 Chitranone**

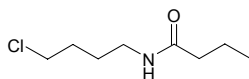
3,6'-Biplumbagin C₂₂H₁₄O₆ (374.35). Orange plates (MeOH), mp 174–177°C, 116–118°C. Pharm: Ichthyotoxin (MLC = 0.5mg/L, control Juglone, MLC = 0.2mg/L)^[4185]. Source: BAI HUA DAN *Plumbago zeylanica*, HAI SHI *Diospyros maritima* (fruit). Ref: 1521, 4185.

**3542 4'-Chloroaurone**

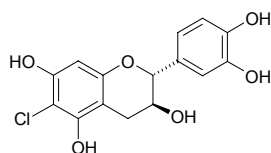
C₁₅H₉ClO₂ (256.69). Colorless solid, mp 206°C Source: YI BIAN HE SHE *ZAO Spatoglossum variable* (residue of methanolic extract: yield = 0.0033%). Ref: 3505.

**3543 N-4'-Chlorobutylbutyramide**

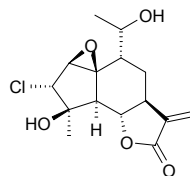
C₈H₁₆ClNO (177.68). Source: SA BA LU HUI *Aloe sabaee*. Ref: 728.

**3544 6-Chlorocatechin**

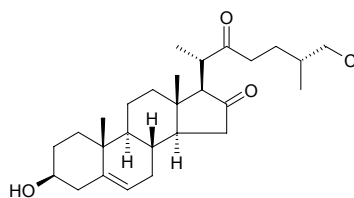
C₁₅H₁₃ClO₆ (324.72). Amorphous, [α]_D²⁰ = +50° (c = 0.16, DMSO), Pharm: Antioxidant (DPPH scavenger, potent activity)^[5232]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]. Source: NIU XI XI *Rumex patientia*. Ref: 5232.

**3545 Chlorochrymorin**

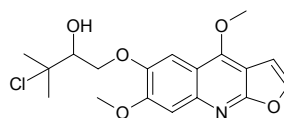
[52525-23-2] C₁₅H₁₉ClO₅ (314.77). Pharm: Plant growth regulator. Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*]. Ref: 658.

**3546 26-Chloro-26-deoxycryptogenin**

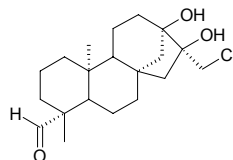
[53356-56-2] C₂₇H₄₁ClO₃ (449.08). mp 149–151°C. Source: YAN LING CAO *Trillium tschonoskii*. Ref: 6, 660.

**3547 Chlorodesnkolbisine**

C₁₈H₂₀ClNO₅ (365.82). Needles, mp 181–182°C, [α]_D = +40° (c = 0.02, MeOH). Source: GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). Ref: 3503.

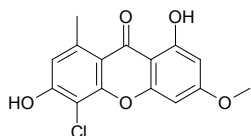
**3548 17-Chloro-13,16β-dihydroxy-ent-kauran-19-al**

C₂₀H₃₁ClO₃ (354.92). White amorphous solid, [α]_D²⁰ = –45.0° (c = 0.3, CHCl₃). Pharm: Antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 50μg/mL; K562, GI₅₀ = 29.2μg/mL; HeLa, CC₅₀ = 38.2μg/mL; control Paclitaxel, L-929, GI₅₀ = 0.1μg/mL; K562, GI₅₀ = 0.01μg/mL; HeLa, CC₅₀ = 0.01μg/mL). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.000164%). Ref: 4770.

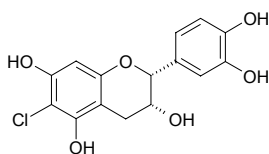


3549 5-Chloro-1,6-dihydroxy-3-methoxy-8-methylxanthone

$C_{15}H_{11}ClO_5$ (306.70). Yellow powder, mp 243–244°C (dec). Source: HUANG HAI TANG *Hypericum ascyron*. Ref: 2398.

**3550 (–)-6-Chloroepicatechin**

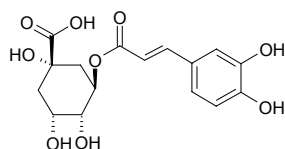
$C_{15}H_{13}ClO_6$ (324.72). $[\alpha]_D^{25} = -84^\circ$ ($c = 0.18$, MeOH). Source: QU YU CAO DI LAO GUAN CAO *Geranium pratense* ssp. *funitimum* (aerial parts). Ref: 5126.

**3551 Chlorogenic acid**

3-Caffeoylquinid acid [327-97-9] $C_{16}H_{18}O_9$ (354.32). Yellowish powder, mp 208–209°C. Pharm: Antioxidant (chemiluminescence Method, $IC_{50} = (0.31 \pm 0.01) \mu\text{mol/L}$, control Rutin, $IC_{50} = (0.11 \pm 0.01) \mu\text{mol/L}$, Quercetin, $IC_{50} = (0.53 \pm 0.01) \mu\text{mol/L}$, Caffeic acid, $IC_{50} = (0.66 \pm 0.07) \mu\text{mol/L}$, Gallic acid, $IC_{50} = (0.74 \pm 0.06) \mu\text{mol/L}$; DPPH scavenger, $IC_{50} = (0.13 \pm 0.01) \mu\text{mol/L}$, Rutin, $IC_{50} = (0.15 \pm 0.00) \mu\text{mol/L}$, Quercetin, $IC_{50} = (0.26 \pm 0.02) \mu\text{mol/L}$, Caffeic acid, $IC_{50} = (0.39 \pm 0.01) \mu\text{mol/L}$, Gallic acid, $IC_{50} = (0.36 \pm 0.02) \mu\text{mol/L}$)^[3764], antioxidant (DPPH scavenger, $EC_{50} = 4.2 \mu\text{g/mL} = 11.9 \mu\text{mol/L}$, control Ascorbic acid, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$)^[4154], antioxidant (DPPH scavenger, $IC_{50} = (1.28 \pm 0.38) \mu\text{g/mL}$)^[5307]; antineoplastic; cytotoxic (hmn myelocytic leukemia cells K562, inhibits cell proliferation, $IC_{50} = 97.2 \mu\text{g/mL}$); antibacterial (*in vivo*); antimutagenic; antiviral; choleric (rat); curtails the time of blood clotting and bleeding; promotes intestinal motion (mus and rat); uterine stimulant (rat, enhances hystera tension); hemostatic; leukopoietic; sensitizer (hmn); CNS stimulant (rat, orl or ip); antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 18.9 \mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098 \mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90 \mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06 \mu\text{g/mL}$)^[5009]; antileishmanial (*Leishmania donovani*, $IC_{50} = 7.0 \mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102 \mu\text{g/mL}$)^[5009]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50 \mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022 \mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90 \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008 \mu\text{g/mL}$)^[5009]; LD₅₀ (young rat, orl) $\geq 1 \text{g/kg}$, (young rat, ip) \geq

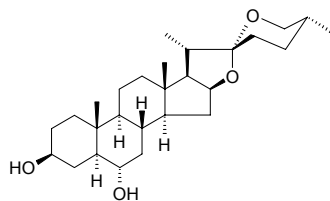
0.25g/kg. Source: A LA BO JIAO JIN HE HUAN *Acacia nilotica*, BAI MEI HUA *Prunus mume* (flower: yield = 0.0006%fw)^[4641], BEI JING SHI WEI *Pyrrosia davidii* (dried leaf: content = 1.64%)^[5508], BEI SHA SHEN *Glehnia littoralis* (underground part), BIAN XU *Polygonum aviculare*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 0.251%)^[5508], CHE SANG ZI YE *Dodonaea viscosa*, CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA XUE TENG *Sargentodoxa cuneata* (stem), DU ZHONG *Eucommia ulmoides* (bark: content scope of 32 origins = 0.0043%–0.286%, mean content = 0.0654%)^[5508], DU ZHONG YE *Eucommia ulmoides* (leaf in spring: mean content of 17 origins = 3.42%, leaf in autumn: mean content of 17 origins = 0.65%)^[5508], DUO ZU JUE *Polypodium vulgare*, GAN LAN *Brassica oleracea* var. *capitata*, GUANG YE DING GONG TENG *Erycibe schmidtii*, HUA NAN REN DONG *Lonicera confusa* (flower bud: content = 3.97%)^[5508], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HE MAO REN DONG *Lonicera fulvotomentosa*, JI MU *Loropetalum chinense* (root, leaf and flower: mean content = 2.05%)^[5508], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.38%dw)^[4723], JIA MA BIAN *Stachytarpheta jamaicensis*, JIN YIN HUA *Lonicera japonica* (flower bud: content scope of 5 origins = 1.84%–5.13%, mean content = 3.21%)^[5508], JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (dried capitulum: content scope of 41 origins = 0.08%–0.72%, mean content = 0.305%)^[5508], KE KE *Theobroma cacao*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), LU SHAN SHI WEI *Pyrrosia shearerii* (dried leaf: content = 0.605%)^[5508], MA QIAN ZI *Strychnos nux-vomica*, NI GUANG SHI WEI *Pyrrosia pseudocalvata* (dried leaf: content = 0.44%)^[5508], PENG ZI CAI *Galium verum*, PU GONG YING *Taraxacum mongolicum* (dried whole herb: content = 0.913%)^[5508], QIAN QU CAI *Lythrum salicaria*, REN DONG TENG *Lonicera japonica* (stem-branch: content = 1.73%)^[5508], SANG YE *Morus alba* (leaf: content scope of 6 origins = 0.69%–2.46%, mean content = 1.38%)^[5508], SHAN LI HONG *Crataegus pinnatifida* var. *major*, SHAN WO JU *Lactuca indica* (fresh whole herb: yield = 0.0033%fw)^[4689], SHAN ZHA *Crataegus pinnatifida*, SHI WEI *Pyrrosia lingua* (dried leaf: content scope of 5 origins = 0.048%–0.344%, mean content = 0.154%)^[5508], TAI WAN PU GONG YING *Taraxacum formosanum* (dried whole herb: content = 0.275%)^[5508], WU MAO JUE *Blechnum orientale*, XI NAN SHI WEI *Pyrrosia gralla* (dried leaf: content = 0.711%)^[5508], XI ZHAN MAO REN DONG *Lonicera similis* (flower bud: mean content = 4.80%)^[5508], XIAN YE REN DONG *Lonicera hypoglauca* (flower bud: content = 2.40%)^[5508], XIAO GUO KA FEI *Coffea arabica*, XIAO JI *Cirsium setosum* [Syn. *Cerratala setosa*; *Cirsium segetum*; *Cephalanoplos segetum*] (whole herb or

root: mean content = 0.0372%)^[5508], XIAO YE GUAN ZHONG *Matteuccia struthiopteris*^[3764], XUAN FU HUA *Inula britannica*, YAO YONG PU GONG YING *Taraxacum officinale* (dried whole herb: content = 0.291%^[5508]), YE JU HUA *Chrysanthemum indicum* (capitulum: content scope of 14 origins = 0.053%~0.358%, mean content = 0.230%)^[5508], YE SHAN ZHA *Crataegus cuneata*, YI ZHU QIAN MA *Urtica dioica*, YING GUO SHAN ZHA *Crataegus oxyacantha*, YOU BING SHI WEI *Pyrrosia petiolosa* (dried leaf: content scope of 12 origins = 0.085%~1.463%, mean content = 0.658%)^[5508], YU XING CAO *Houttuynia cordata*, ZHAN MAO SHI WEI *Pyrrosia drakeana* (dried leaf: content = 0.595%)^[5508], ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 0.096%)^[5508], ZONG KUI CAO SU *Phlomis brunneogaleata*, occurs in many plants (including *Chrozophora* spp., *Cinchona* spp., *Scabiosa* spp., *Valeriana* spp., *Senecio* spp., *Baccharis* spp. and *Hypericum* spp., originally from Liberian coffee). Ref: 2, 4, 585, 602, 638, 658, 660, 3764, 4154, 4527, 4641, 4689, 4723, 4895, 5009, 5307, 5375, 5501, 5508.



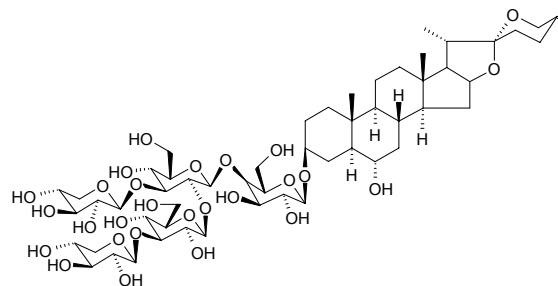
3552 Chlorogenin

[562-34-5] C₂₇H₄₄O₄ (432.65). mp 273~276°C. Source: DONG YI HAO JIAN MA *Agave east-one*, DUAN YE LONG SHE LAN *Agave angustifolia*, FAN MA *Agave americana*, JI LI GEN *Tribulus terrestris*, JIAN MA *Agave sisalana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*, YIN BIAN LONG SHE LAN *Agave angustifolia* var. *marginata*. Ref: 6, 10.



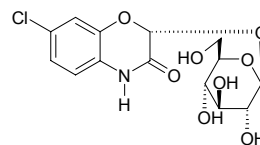
3553 Chlorogenin-3-O-β-D-xylopyranosyl-(1→3)-β-D-glucopyranosyl-(1→2)-[β-D-xylopyranosyl-(1→3)]-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside

C₅₅H₉₀O₂₇ (1183.31). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 7.5 μg/mL; control *cis*-Platin, IC₅₀ = 0.75 μg/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0025%fw). Ref: 3002.



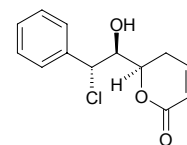
3554 7-Chloro-(2R)-2-O-β-D-glucopyranosyl-2H-1,4-benzoxazin-3(4H)-one

C₁₄H₁₆ClNO₈ (361.74). White amorphous powder, [α]_D²⁶ = +198.0° (c = 0.33, DMSO). Source: LAO SHU LE *Acanthus ilicifolius* (aerial parts). Ref: 5204.



3555 8-Chlorogoniodiol

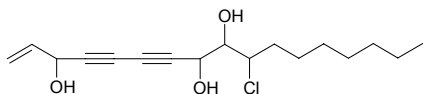
(6R,7R,8R)-8-Chlorogoniodiol; 6R-(7R-Hydroxy-8R-chloro-8-phenyl)-5,6-dihydro-2-pyrone C₁₃H₁₃ClO₃ (252.70). Colorless plate crystals, mp 126~128°C, [α]_D²⁵ = +13.7° (c = 0.3, CHCl₃). Pharm: Cytotoxic (HepG2, IC₅₀ = 0.64 μg/mL, control Doxorubicin, IC₅₀ = 0.38 μg/mL; Hep3B, IC₅₀ = 3.64 μg/mL, Doxorubicin, IC₅₀ = 0.36 μg/mL; MDA-MB-231, IC₅₀ = 1.47 μg/mL, Doxorubicin, IC₅₀ = 1.20 μg/mL; MCF7, IC₅₀ = 2.32 μg/mL, Doxorubicin, IC₅₀ = 2.51 μg/mL)^[5056]; cytotoxic (*in vitro*, NUGC, IC₅₀ = 31 μg/mL; HONE-1, IC₅₀ = 4.87 μg/mL, significant selective cytotoxicity; control Actinomycin, NUGC, IC₅₀ = 6.61 μg/mL; HONE-1, IC₅₀ = 4.53 μg/mL)^[4686]. Source: TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00041%fw; stem: yield = 0.00067%fw). Ref: 4686, 5056.



3556 10-Chloro-1-heptadecene-4,6-diyne-3,8,9-triol

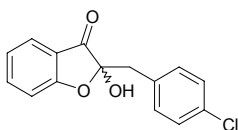
$C_{17}H_{25}ClO_3$ (312.84). Amorphous powder, $[\alpha]_D^{25} = +47.5^\circ$ ($c = 0.1$, MeOH).

Source: *Niphogeton ternata*. Ref: 4156.

**3557 4'-Chloro-2-hydroxyaurone**

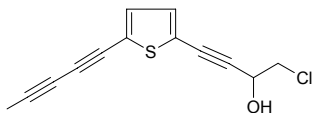
$C_{15}H_{11}ClO_3$ (274.71). Colorless solid, mp $225^\circ C$, $[\alpha]_D^{25} = 50^\circ$ ($CHCl_3$). Source:

YI BIAN HE SHE ZAO *Spatoglossum variabile* (residue of methanolic extract: yield = 0.0028%). Ref: 3505.

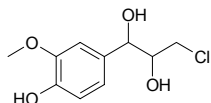
**3558 2-(4-Chloro-3-hydroxybut-1-ynyl)-5-(penta-1,3-diynyl) thiophene**

[26905-70-4] $C_{13}H_9ClOS$ (248.73). Source: MO HAN LIAN *Eclipta prostrata*

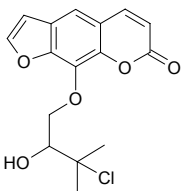
[Syn. *Eclipta alba*]. Ref: 6.

**3559 threo-3-Chloro-1-(4-hydroxy-3-methoxyphenyl)propane-1,2-diol**

$C_{10}H_{13}ClO_4$ (232.67). Colorless needles, mp $121^\circ C$ ($CHCl_3$), $[\alpha]_D^{25} = -2^\circ$ ($c = 0.52$, EtOH). Pharm: Inhibits autoxidation of linoleic acid (in a water-alcohol system)^[2390]. Source: DUO XIANG GUO *Pimenta dioica*. Ref: 2390.

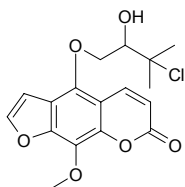
**3560 8-(3-Chloro-2-hydroxy-3-methylbutoxy)psoralen**

$C_{16}H_{15}ClO_5$ (322.75). Source: *Niphogeton ternata*. Ref: 4156.

**3561 5-O-(3-Chloro-2-hydroxy-3-methylbutyl)-8-methoxypsoralen**

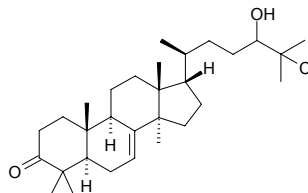
$C_{17}H_{17}ClO_6$ (352.77). Amorphous powder, $[\alpha]_D^{25} = +1.4^\circ$ ($c = 0.8$, MeOH).

Source: *Niphogeton ternata*. Ref: 4156.

**3562 25-Chloro-24-hydroxytirucall-7-en-3-one**

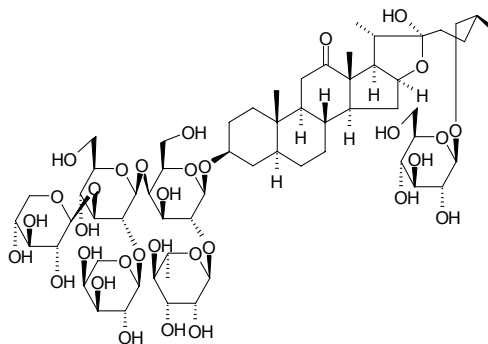
$C_{30}H_{49}ClO_2$ (477.18). Amorphous powder, $[\alpha]_D^{25} = -15.8^\circ$ ($c = 0.6$, MeOH).

Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.

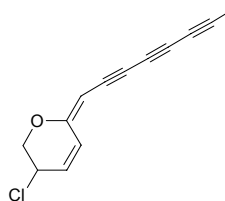
**3563 Chloromaloside E**

26-O-β-D-Glucopyranosyl-22-hydroxy-25(S)-5α-furostan-12-oxo-3β,26-diol-3-O-β-D-xylopyranosyl(1→3)[α-L-arabinopyranosyl (1→2)]-β-D-glucopyranosyl (1→4)-[α-L-rhamnopyranosyl (1→2)]-β-D-galactopyranoside

$C_{61}H_{100}O_{32}$ (1345.46). Colorless acicular crystals (methanol). Source: DA YE DIAO LAN *Chlorophytum malayense*. Ref: 893.

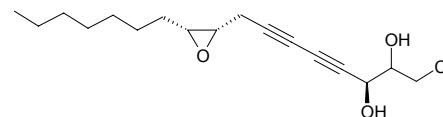
**3564 5-Chloro-2-(octa-2,4,6-triynylidene)-5,6-dihydro-2H-pyran**

$C_{13}H_9ClO$ (216.67). mp $73^\circ C$. Source: DA YE BAI TOU WENG *Anaphalis margaritacea*. Ref: 6.

**3565 Chloropanaxydiol**

[114687-51-3] $C_{17}H_{25}ClO_3$ (312.84). $[\alpha]_D = -37.2^\circ C$ ($c = 0.2$, MeOH). Pharm:

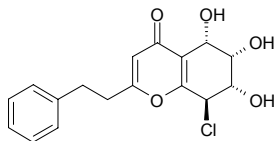
Cytotoxic. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 3118.



3566 8-Chloro-2-(2-phenylethyl)-5,6,7-trihydroxy-5,6,7,8-tetrahydrochromone

$C_{17}H_{17}ClO_5$ (336.78). White amorphous solid, $[\alpha]_D^{25} = +7.4^\circ$ ($c = 1.0$, MeOH).

Source: BAI MU XIANG *Aquilaria sinensis* (Withered wood). Ref: 4339.

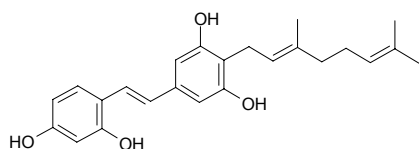


3567 Chlorophorin

4-Geranyl-2',3,4',5-tetrahydroxy-*trans*-stilbene [537-41-7] $C_{24}H_{28}O_4$ (380.49).

Pharm: Tyrosinase inhibitor ($IC_{50} = 1.3 \mu\text{mol/L}$)^[4326]. Source: GAO HUANG

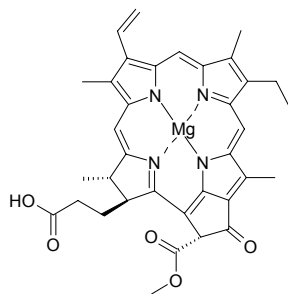
LU SANG *Chlorophora excelsa* (heartwood). Ref: 658, 4326.



3568 Chlorophyllide a

$C_{35}H_{34}MgN_4O_5$ (615.00). Pharm: Cytotoxic (soft agar transformation assay with JB6 cells, $IC_{50} = 0.30 \mu\text{g/mL}$)^[5038]; cytotoxic (mouse mammary organ culture assay, 58% at $10 \mu\text{g/mL}$)^[5038]. Source: FEI CHENG SUAN JIANG

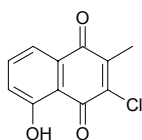
Physalis philadelphica. Ref: 5038.



3569 3-Chloroplumbagin

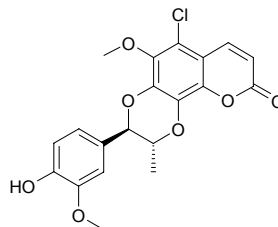
[21890-57-3] $C_{11}H_7ClO_3$ (222.63). Source: BAI HUA DAN *Plumbago*

zeylanica. Ref: 6.



3570 5-Chloropropacin

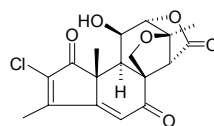
$C_{20}H_{17}ClO_7$ (404.81). Amorphous solid. Source: MENG DI TENG *Mondia whitei* (root). Ref: 5264.



3571 2-Chlorosamaderine A

$C_{18}H_{17}ClO_6$ (364.79). Pale yellow amorphous solid, $[\alpha]_D = -13^\circ$ ($c = 0.016$, $CHCl_3$). Pharm: Cytotoxic (colon cancer HCT15, $LC_{50} = 85.4 \mu\text{g/mL}$; renal cancer A498, $LC_{50} = 70.0 \mu\text{g/mL}$). Source: MA DAO HUANG LIAN SHU

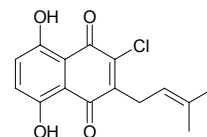
Samadera madagascariensis (leaf). Ref: 5334.



3572 Chlorosesamone

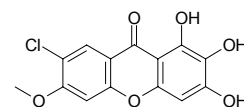
$C_{15}H_{13}ClO_4$ (292.72). Pharm: Antifungal (*Cladosporium fulvum*, $0.1 \mu\text{g/spot}$).

Source: HU MA GEN *Sesamum indicum*. Ref: 5234.



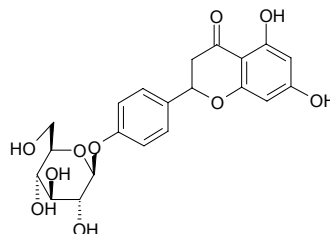
3573 7-Chloro-1,2,3-trihydroxy-6-methoxyxanthone

$C_{14}H_9ClO_6$ (308.68). Yellow solid. Pharm: Cytotoxic (*in vitro* antiproliferative activity, $LoVo$, $IC_{50} = (8.30 \pm 0.09) \mu\text{mol/L}$, control Doxorubicin, $IC_{50} = (0.04 \pm 0.01) \mu\text{mol/L}$; $LoVo/Doxo$, $IC_{50} = (6.70 \pm 0.40) \mu\text{mol/L}$, control Doxorubicin, $IC_{50} = (10.2 \pm 0.1) \mu\text{mol/L}$). Source: PU TONG YUAN ZHI *Polygala vulgaris*. Ref: 4246.



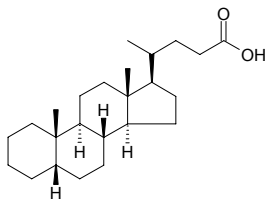
3574 Choerospondin

$C_{21}H_{22}O_{10}$ (434.40). Source: *Glycyrrhiza* sp. Ref: 2431.



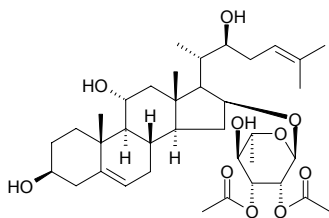
3575 5 β -Cholanic acid

[546-18-9] C₂₄H₄₀O₂ (360.59). mp 164°C. Source: XIANG SI ZI *Abrus precatorius*. Ref: 6.

**3576 (22S)-Cholesta-5,24-diene-3 β ,11 α ,16 β ,22-tetrol 16-O-(2,3-di-O-acetyl- α -L-rhamnopyranoside)**

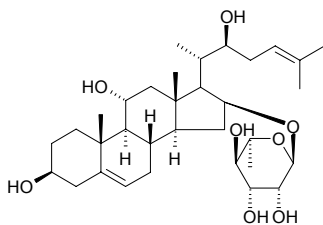
C₃₇H₅₈O₁₀ (662.87). Amorphous solid, $[\alpha]_D^{30} = -24.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, GI₅₀ = 0.80 μ mol/L). Source: *Ornithogalum saundersiae*. Ref: 2364.

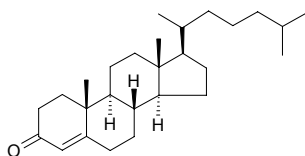
**3577 (22S)-Cholesta-5,24-diene-3 β ,11 α ,16 β ,22-tetrol 16-O- α -L-rhamnopyranoside**

C₃₃H₅₄O₈ (578.79). Amorphous solid, $[\alpha]_D^{28} = -42.0^\circ$ ($c = 0.54$, MeOH).

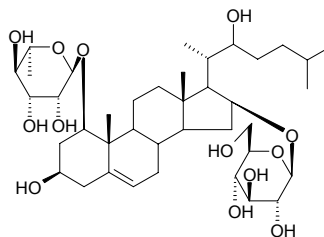
Source: *Ornithogalum saundersiae*. Ref: 2364.

**3578 Cholest-4-ene-3-one**

[601-57-0] C₂₇H₄₄O (384.65). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2.

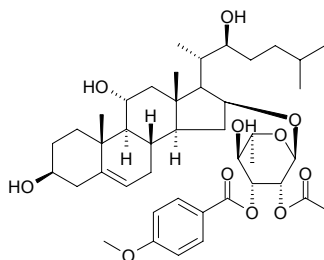
**3579 (22S)-Cholest-5-ene-1 β ,3 β ,16 β ,22-tetraol-1-O- α -L-rhamnopyranosyl-16-O- β -D-glucopyranoside**

C₃₉H₆₆O₁₃ (742.95). White needles (MeOH), mp 201.5~202.5°C. Source: XIE BAI *Allium macrostemon*. Ref: 4897.

**3580 (22S)-Cholest-5-ene-3 β ,11 α ,16 β ,22-tetrol 16-O-{2-O-acetyl-3-O-(p-methoxybenzoyl)- α -L-rhamnopyranoside}**

C₄₃H₆₄O₁₁ (756.98). Amorphous solid, $[\alpha]_D^{30} = -12.0^\circ$ ($c = 0.10$, MeOH).

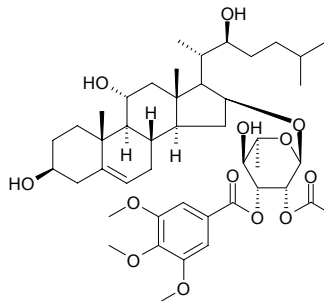
Pharm: Cytotoxic (cytostatic, HL-60 cells, GI₅₀ = 0.022 μ mol/L). Source: *Ornithogalum saundersiae*. Ref: 2364.

**3581 (22S)-Cholest-5-ene-3 β ,11 α ,16 β ,22-tetrol**

16-O-{2-O-acetyl-3-O-(3,4,5-trimethoxybenzoyl)- α -L-rhamnopyranoside}

C₄₅H₆₉O₁₃ (817.04). Amorphous solid, $[\alpha]_D^{27} = +6.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, GI₅₀ = 1.8 μ mol/L). Source: *Ornithogalum saundersiae*. Ref: 2364.

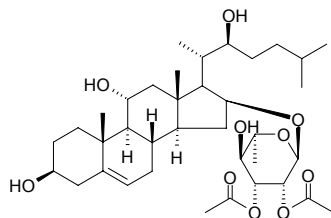


3582 (22S)-Cholest-5-ene-3 β ,11 α ,16 β ,22-tetrol 16-O-(2,3-di-O-acetyl-L-rhamnopyranoside)

C₃₇H₆₀O₁₀ (664.88). Amorphous solid, $[\alpha]_D^{30} = -28.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, GI₅₀ = 6.9 μ mol/L). **Source:**

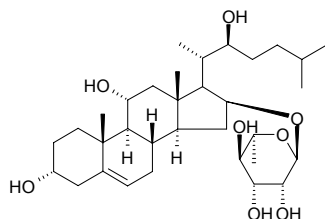
Ornithogalum saundersiae. **Ref:** 2364.



3583 (22S)-Cholest-5-ene-3 α ,11 α ,16 β ,22-tetrol 16-O- α -L-rhamnopyranoside

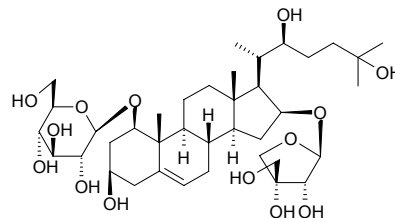
C₃₃H₅₆O₈ (580.81). Amorphous solid, $[\alpha]_D^{26} = -39.0^\circ$ ($c = 0.50$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, GI₅₀ = 0.19 μ mol/L); cytotoxic (NCI 60 cell lines, Leukemia: K562, GI₅₀ = 0.12 μ mol/L, Molt-4, GI₅₀ = 0.028 μ mol/L, RPMI-8226, GI₅₀ = 0.016 μ mol/L, SR leukemia, GI₅₀ = 0.042 μ mol/L; Non-small cell lung cancer: A549/ATCC, GI₅₀ = 1.5 μ mol/L, HOP-62, GI₅₀ = 0.032 μ mol/L, NCI-H23, GI₅₀ = 27 μ mol/L, NCI-H522, GI₅₀ = 5.3 μ mol/L; Colon cancer: Colon205, GI₅₀ = 1.3 μ mol/L, HCT116, GI₅₀ = 0.18 μ mol/L, HT29, GI₅₀ = 1.8 μ mol/L, KM12, GI₅₀ = 0.41 μ mol/L, SW620, GI₅₀ = 0.14 μ mol/L; CNS cancer: SF268, GI₅₀ = 1.2 μ mol/L, SF295, GI₅₀ = 0.021 μ mol/L, SF539, GI₅₀ = 0.015 μ mol/L, U251, GI₅₀ = 0.010 μ mol/L; Melanoma: MALME-3M, GI₅₀ = 2.5 μ mol/L, M14, GI₅₀ = 1.2 μ mol/L, SK-MEL-2, GI₅₀ = 7.2 μ mol/L, SK-MEL-28, GI₅₀ = 0.22 μ mol/L, SK-MEL-5, GI₅₀ = 0.74 μ mol/L, UACC62, GI₅₀ = 0.50 μ mol/L; Ovarian cancer: OVCAR-5, GI₅₀ = 6.2 μ mol/L; Renal cancer: 780-6, GI₅₀ = 0.11 μ mol/L, A498, GI₅₀ = 0.46 μ mol/L, CAKI-1, GI₅₀ = 0.63 μ mol/L, RXF-393, GI₅₀ = 0.025 μ mol/L, UO-31, GI₅₀ = 3.1 μ mol/L; Prostate cancer: PC3, GI₅₀ = 0.34 μ mol/L; Breast cancer: MCF7, GI₅₀ = 0.022 μ mol/L, MCF7/ADR-RES, GI₅₀ = 87 μ mol/L, MDA-MB-231/ATCC, GI₅₀ = 1.0 μ mol/L, MDA-MB-435, GI₅₀ = 0.98 μ mol/L, MDA-N, GI₅₀ = 1.2 μ mol/L; mean GI₅₀ = 1.5 μ mol/L; mean TGI = 20 μ mol/L; mean LC₅₀ = 69 μ mol/L). **Source:** *Ornithogalum saundersiae*. **Ref:** 2364.



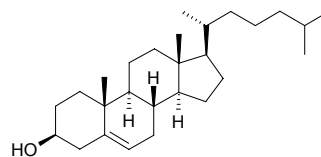
3584 (22S)-Cholest-5-en-1 β ,3 β ,16 β ,22,25-pentaol 1-O- β -D-glucopyranosyl-16-O- β -D-apiofuranoside

C₃₈H₆₄O₁₄ (744.93). White amorphous powder, $[\alpha]_D^{17.1} = 38.76^\circ$ ($c = 0.0387$, pyridine). **Source:** WAN XIANG YU *Polianthes tuberosa*. **Ref:** 2483.



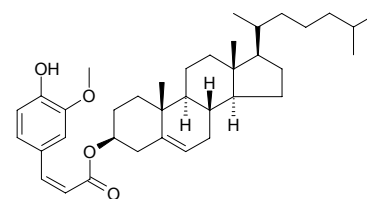
3585 Cholesterol

5-Cholesten-3 β -ol [57-88-5] C₂₇H₄₆O (386.67). **Pharm:** Raw material for synthesis of vitamin D and hormones. **Source:** BAI JIANG CAN *Bombyx mori*, BO CAI *Spinacia oleracea*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, GOU QI ZI *Lycium chinense*, GUA DI *Cucumis melo*, JING MI *Oryza sativa*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], LU RONG *Cervus nippon*; *Cervus elaphus*, LUO HUA SHENG *Arachis hypogaea*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: mean content = 0.165%)^[5508], QIU YIN *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, QUAN XIE *Buthus martensi*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, SHUI HU MAN *Clerodendron inerme*, WU GONG *Scolopendra subspinipes mutilans*, WU LOU ZI *Phoenix dactylifera*, YE MING SHA *Vespertilio superans*, YUN TAI ZI *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], ZHE GU CAI *Caloglossa leprieurii*, *Panulirus* sp. **Ref:** 2, 658, 660, 5508.



3586 Cholesteryl ferulate

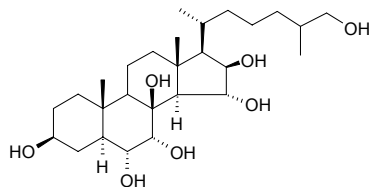
C₃₇H₅₄O₄ (562.84). **Source:** MI PI KANG *Oryza sativa*. **Ref:** 6.



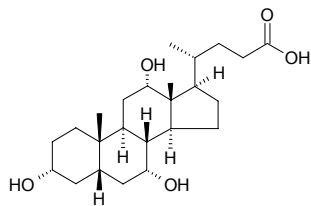
3587 5 α -Cholest-3 β ,6 α ,7 α ,8 β ,15 α ,16 β ,26-sevol

C₂₇H₄₈O₇ (484.68). White powder. Source: HAI YAN *Asterina pectinifera*.

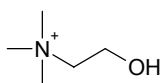
Ref: 4887.

**3588 Cholic acid**

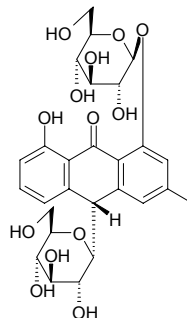
5 β -Cholic acid; 3 α ,7 α ,12 α -Trihydroxy-5 β -cholan-3-ic acid [81-25-4] C₂₄H₄₀O₅ (408.58). mp 195°C (anhydrous), [α]_D²⁰ = +37° (c = 0.6, ethanol), very slightly soluble in water, slightly soluble in ether, chloroform, soluble in ethanol, acetone, easily soluble in ice vinegar.^[5507] Pharm: Sedative (mouse, orl, calcium salt); anticonvulsant (induced by corazol); antipyretic (induced by dinitrophenol); stimulates heart (toad heart, 1.0mmol/L); Vasodilator (rbt ear, calcium salt); anti-inflammatory (mouse, acetic acid-induced, ip, inhibits increase of vaso-permeability); antitussive (mouse, fog-ammonia method); antibacterial (gram-positive bacteria); antiviral (jockos, inactivator to hepatitis B virus HBV, non-A non-B hepatitis virus NANB, hmn T-lymphocytes-phil virus III HTLV-III in blood products); LD₅₀ (mouse, orl) = 1.52g/kg. Source: NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: content scope = 3.08%~15.67%^[5501], mean content = 5.70%^[5508]), XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 5501, 5507, 5508.

**3589 Choline**

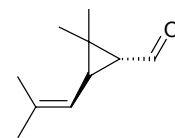
Bilinerine [62-49-7] C₅H₁₄NO⁺ (104.17). Easily soluble in water, ethanol, insoluble in ether, petroleum ether.^[5507] Source: BAN XIA *Pinellia ternata*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, FU LING *Poria cocos*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG QI *Astragalus membranaceus*, PU GONG YING *Taraxacum mongolicum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], YAO YONG PU GONG YING *Taraxacum officinale*, ZHI MU *Anemarrhena asphodeloides*. Ref: 2, 660, 5507.

**3590 10R-Chrysaloin 1-O- β -D-glucopyranoside**

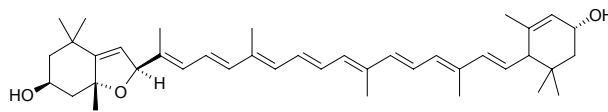
C₂₇H₃₂O₁₃ (564.55). Pale yellow amorphous, [α]_D²¹ = -56.6° (c = 0.049, MeOH). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.

**3591 Chrysanthemal**

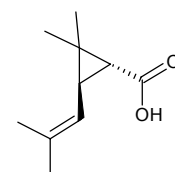
C₁₀H₁₆O (152.24). colorless oil. Source: NIAN HAO *Artemisia cana* ssp. *viscidula*. Ref: 1980.

**3592 Chrysanthemaxanthin**

[27780-11-6] C₄₀H₅₆O₃ (584.89). mp 184~185°C. Source: QIAN LI GUANG *Senecio scandens* [Syn. *Senecio chinensis*], YE JU *Chrysanthemum indicum*. Ref: 6.

**3593 Chrysanthemic acid**

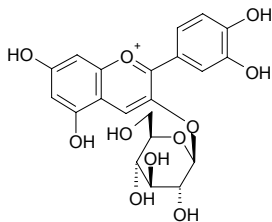
[827-90-7] C₁₀H₁₆O₂ (168.24). Pharm: Irritant (eyes and mucous membranes). Source: CHU CHONG JU *Chrysanthemum cinerariaefolium*. Ref: 658.



3594 Chrysanthemim

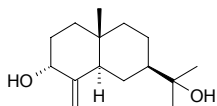
Cyanidin 3-*O*-glucoside [7084-24-4] C₂₁H₂₁O₁₁⁺ (449.39). mp 205°C (dec).

Pharm: Antihypertensive; larvacide (*Heliothis virescens*). **Source:** BAI FAN DOU *Phaseolus vulgaris*, DI YU *Sanguisorba officinalis*, DU JUAN HUA *Rhododendron simsii*, FU PEN ZI *Rubus idaeus*, HEI DA DOU PI *Glycine max*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], LING MU *Eurya japonica*, MAO SHU *Dioscorea alata*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], TOU GU CAO *Speranskia tuberculata*, YE JU *Chrysanthemum indicum*, YE JU HUA *Chrysanthemum indicum*, ZAI PEI ZI WAN *Aster cultivars*. **Ref:** 6, 658, 5501.

**3595 Chrysanthemol**

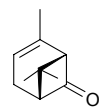
Chrysanthemyl alcohol [113773-90-3] C₁₅H₂₆O₂ (238.37). White shortness rhombic crystals, mp 146–148°C, [α]_D¹⁹ = +5.8° (c = 0.51, chloroform).

Pharm: Anti-inflammatory (mus). **Source:** YE JU *Chrysanthemum indicum*. **Ref:** 90.

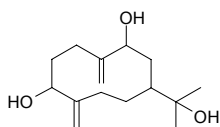
**3596 Chrysanthenone**

C₁₀H₁₄O (150.22). bp 105–114°C/44mmHg. **Source:** JU HUA

Chrysanthemum morifolium [Syn. *Dendranthema morifolium*]. **Ref:** 6.

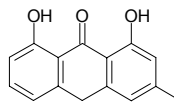
**3597 Chrysanthetriol**

C₁₅H₂₆O₃ (254.37). Colorless, oleaginous, viscous liquid, [α]_D²⁰ = –31.8° (c = 0.3, chloroform). **Source:** YE JU HUA *Chrysanthemum indicum*. **Ref:** 222.

**3598 Chrysarobin**

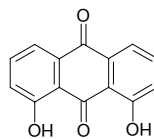
1,8-Dihydroxy-3-methyl-9-anthrone [491-58-7] C₁₅H₁₂O₃ (240.26). mp

206–208°C. **Pharm:** Antibacterial; antifungal; anthelmintic; laxative. **Source:** BO XI SHU LI *Rhamnus purshiana*, HE SHOU WU *Polygonum multiflorum*, JUE MING ZI *Cassia tora*, LI LA GEN *Rhamnus crenata*, NIU ER DA HUANG *Rumex crispus*, TIE DAO MU *Cassia siamea*. **Ref:** 2, 6, 555, 658.

**3599 Chrysazin**

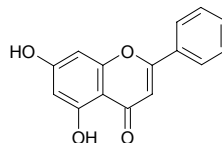
1,8-Dihydroxy-anthraquinone [117-10-2] C₁₄H₈O₄ (240.22). mp 193°C.

Pharm: Immunosuppressant (macrophage and lymphocyte, high dose); laxative. **Source:** WANG JIANG NAN *Cassia occidentalis*, ZHANG YE DA HUANG *Rheum palmatum*, JIN JI LE *Cinchona ledgeriana*. **Ref:** 6, 658.

**3600 Chrysin**

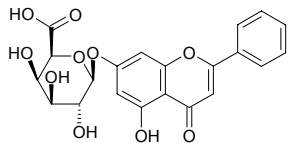
5,7-Dihydroxyflavone [480-40-0] C₁₅H₁₀O₄ (254.24). Yellow granular crystals

(MeOH), mp 266–268°C. **Pharm:** Anti-HIV (inhibits HIV replication, EC₅₀ = 5 μmol/L); anti-inflammatory; antimicrobial; cytotoxic (KB, ED₅₀ = 13 μg/mL); induces production of estrin synthetase and cruarin; antihistamine (inhibits histamine release, rat peritoneum mastocyte); aldose reductase inhibitor (eye lens); iodinate thyronine deiodinase inhibitor; anti-inflammatory (COX-2 inhibitor, prevents COX-2 expression)^[4415]; platelet aggregation inhibitor^[4415]. **Source:** BEI JING YANG *Populus beijingensis* (bark: content = 0.10%)^[5508], CI GUO SONG *Pinus aristata*, DIAN HUANG QIN *Scutellaria amoena*, FENG JIAO *Apis mellifera ligustica*, HUANG QIN *Scutellaria baicalensis*, JIA YANG *Populus canadensis* (bark: content = 0.10%)^[5508], JIA ZHOU SHAN SONG *Pinus monticola*, MAO BAI YANG *Populus tomentosa* (bark: content = 0.03%)^[5508], MU HU DIE *Oroxylum indicum*, QIAO GUI *Pinus excelsa*, SHAN YANG *Populus davidiana* (bark: content = 0.04%)^[5508], XIAO HEI YANG *Populus xiaohei* (bark: content = 0.02%)^[5508], XIAO QING YANG *Populus pseudo-simonii* (bark: content = 0.08%)^[5508], XIN JIANG YANG *Populus alba* var. *pyramidalis* (bark: content = 0.01%)^[5508], YIN BAI YANG *Populus alba* (bark: content = 0.01%)^[5508], *Populus* sp., *Escallonia* sp. **Ref:** 2, 5, 463, 660, 1553, 4415, 5501, 5508.

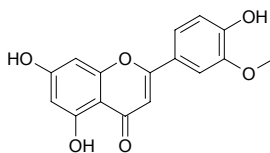


3601 Chrysin 7-O- β -galactopyranuronoside

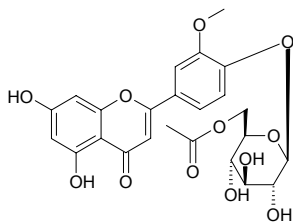
$C_{21}H_{18}O_{10}$ (430.37). Pale yellowish amorphous powder. Source: DONG AN NA TUO LI YA SHI CHE JU *Centaurea pseudoscabiosa* ssp. *pseudoscabiosa*. Ref: 1947.

**3602 Chrysoeriol**

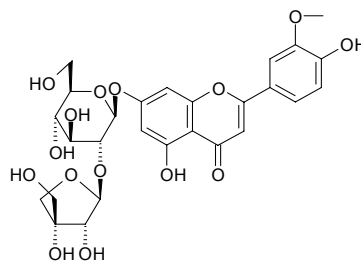
Chrysoeriol; 3'-Methoxy-4',5,7-trihydroxyflavone [491-71-4] $C_{16}H_{12}O_6$ (300.27). Pharm: Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, $IC_{50} = 36\mu\text{mol/L}$; control Sulforaphane, $IC_{50} = 11\mu\text{mol/L}$)^[4718]; antineoplastic (inhibits carcinogenesis of 3,4-benzopyrene, inhibits its metabolism); cytotoxic (P_{388} , $ED_{50} = 1.9\mu\text{g/mL}$); cAMP phosphodiesterase inhibitor (*in vitro*, $IC_{50} = 269\mu\text{mol/L}$); cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; anti-allergic and anti-inflammatory (inhibits basophile to release histamine and inhibits neutrophil cells to release β -glucuronidase); aldose reductase inhibitor ($50\mu\text{g/mL}$ InRt = 61.5%, $IC_{50} = 14.0\mu\text{mol/L}$); xanthinoxidase inhibitor ($50\mu\text{g/mL}$ InRt = 61.5%, $IC_{50} = 14.0\mu\text{mol/L}$); anti-coagulant (hum, inhibits expression of tissue factor in monocyte induced by interleukin I, $IC_{50} = 2.6\mu\text{mol/L}$); anticomplement activity. Source: DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00017%dw)^[4718], HUANG HUA HAO *Artemisia annua*, JIN YIN HUA *Lonicera japonica*, PAN YUAN YU TENG *Derris scandens* (stem), SAN JIAN SHAN *Cephalotaxus fortunei*, XIANG DOU *Dipteryx odorata* (callus and root). Ref: 2, 660, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 3810, 4718, 5038.

**3603 Chrysoeriol 4'-O-(6''-O-acetyl)- β -D-glucopyranoside**

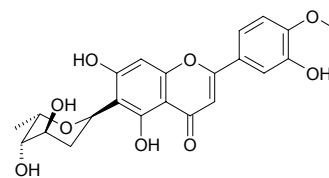
$C_{24}H_{24}O_{12}$ (504.45). Source: LV DOU *Onobrychis vicifolia* (leaf). Ref: 5084.

**3604 Chrysoeriol-7-apio-glucoside**

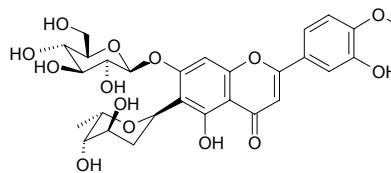
Graveobioside B $C_{27}H_{30}O_{15}$ (594.53). mp 214~216°C. Source: HAN QIN *Apium graveolens*. Ref: 6.

**3605 Chrysoeriol 6-C- β -L-boivinopyranoside**

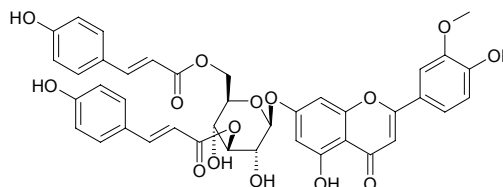
$C_{22}H_{22}O_9$ (430.42). Yellow amorphous solid, mp 212~216°C, $[\alpha]_D^{20} = +27.1^\circ$ ($c = 1.18$, MeOH). Pharm: Glycation inhibitor (similar to that of aminoguanidine). Source: YU SHU SHU *Zea mays* (style: yield = 0.0012%dw). Ref: 4687.

**3606 Chrysoeriol 6-C- β -boivinopyranosyl-7-O- β -glucopyranoside**

$C_{28}H_{32}O_{14}$ (592.56). Yellow amorphous solid, mp 196~198°C, $[\alpha]_D^{20} = -24.9^\circ$ ($c = 0.61$, MeOH). Pharm: Glycation inhibitor (similar to that of aminoguanidine). Source: YU SHU SHU *Zea mays* (style: yield = 0.00081%dw). Ref: 4687.

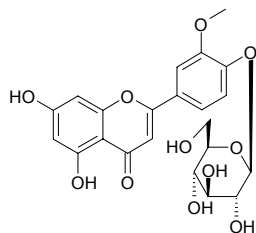
**3607 Chrysoeriol 7-O-(3'',6''-Di-O-E-p-coumaroyl)- β -D-glucopyranoside**

$C_{40}H_{34}O_{15}$ (754.71). Amorphous yellow powder, $[\alpha]_D^{20} = -13.2^\circ$ ($c = 0.05$, MeOH). Source: DUAN RONG MAO OU XIA ZHI CAO *Marrubium velutinum* (aerial parts). Ref: 3448.



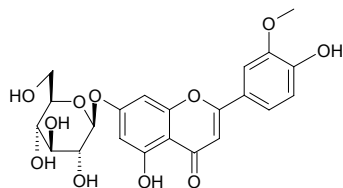
3608 Chrysoeriol 4'-O-β-D-glucopyranoside

$C_{22}H_{22}O_{11}$ (462.41). Source: LV DOU *Onobrychis vicifolia* (leaf). Ref: 5084.

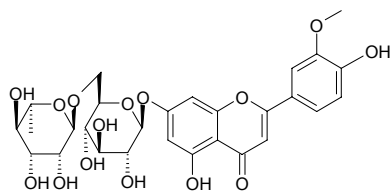
**3609 Chrysoeriol 7-O-β-D-glucopyranoside**

$C_{22}H_{22}O_{11}$ (462.41). Pharm: Aldose reductase inhibitor ($IC_{50} = 26\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4530]; antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} = 88.7\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$)^[5009]; antileishmanial (*Leishmania donovani*, $IC_{50} = 4.1\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$)^[5009]; antimalarial (*Plasmodium falciparum*, $IC_{50} = 5.9\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$)^[5009].

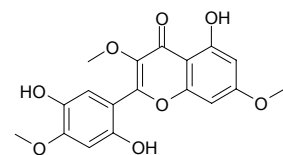
Source: SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 4530, 5009.

**3610 Chrysoeriol 7-O-rutinoside**

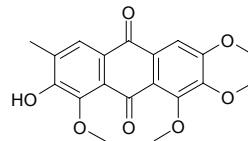
$C_{28}H_{32}O_{15}$ (608.56). Pharm: Aldose reductase inhibitor ($IC_{50} = 14\mu\text{mol/L}$; control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). Source: SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). Ref: 4530.

**3611 Chrysograyanin**

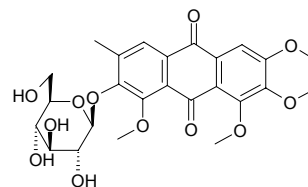
Oxyayanin A $C_{18}H_{16}O_8$ (360.32). mp 245–247°C. Pharm: Allergenic. Source: JIN QIAN KU YE CAO *Chrysosplenium grayanum*, NI RI LI YA LIANG RUI SU MU *Distemonanthus benthamianus*. Ref: 6, 658.

**3612 Chrysoobtusin**

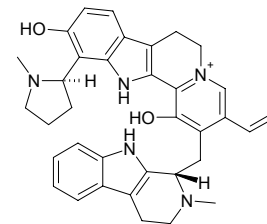
2-Hydroxy-1,6,7,8-tetramethoxy-3-methyl-9,10-anthracenedione [70588-06-6] $C_{19}H_{18}O_7$ (358.37). Source: JUE MING ZI *Cassia tora*. Ref: 725.

**3613 Chrysoobtusin glucoside**

$C_{25}H_{28}O_{12}$ (520.49). Pharm: Platelet aggregation inhibitor (rat). Source: JUE MING ZI *Cassia tora*, DUN YE JUE MING *Cassia obtusifolia*. Ref: 658.

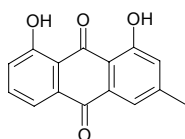
**3614 Chrysopentamine**

$C_{35}H_{38}N_5O_2$ (560.73). Orange amorphous powder. Pharm: Antiplasmodial (chloroquine-sensitive line, $IC_{50} = (579\pm 376)\text{nmol/L}$, $IC_{90} = 1918\text{nmol/L}$, control Quinine, $IC_{50} = (269\pm 6)\text{nmol/L}$, $IC_{90} = 1910\text{nmol/L}$; chloroquine-resistant line, $IC_{50} = (550\pm 149)\text{nmol/L}$, $IC_{90} = 1980\text{nmol/L}$, Quinine, $IC_{50} = (200\pm 33)\text{nmol/L}$, $IC_{90} = 2740\text{nmol/L}$; moderately chloroquine-resistant line, $IC_{50} = (507\pm 227)\text{nmol/L}$, $IC_{90} = 1774\text{nmol/L}$, Quinine, $IC_{50} = (413\pm 11)\text{nmol/L}$, $IC_{90} = 1720\text{nmol/L}$)^[4925]. Source: DONG FEI MA QIAN *Strychnos usambarensis* (leaf). Ref: 4925.

**3615 Chrysophanol**

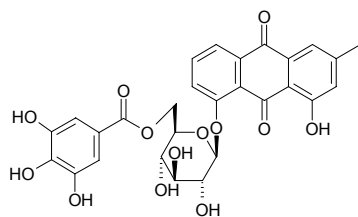
3-Methylchrysazin [481-74-3] $C_{15}H_{10}O_4$ (254.24). Hexagon or oblique crystals (ethanol or benzene), mp 196°C (sub); orange lamellar crystals, mp 198°C. Pharm: Antibacterial (α -Streptococcus, *Diplococcus pneumoniae*, *Bacillus influenzae*, *Coccus catarrhalis*); antitussive; coagulant (oral or subcutaneous, cuts clotting time); diuretic (rat); paralyzes muscle; promotes intestinal motion; stimulates nerve; cytotoxic (K562 cells, $IC_{50} = 52.50\mu\text{g/mL}$)^[4600]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$)^[3057]; antioxidant inactive (DPPH radical scavenger, $IC_{50} > 100\mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = 3.9\mu\text{g/mL}$)^[4711]; antioxidant inactive (DPPH radical scavenger assay)^[5232]. Source: BEI HUANG HUA CAI *Hemerocallis*

lilio-asphodelus (root: content = 0.0031%)^[5508], BO XI SHU LI *Rhamnus purshiana*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DA HUANG *Rheum officinale*, DUN YE JUE MING *Cassia obtusifolia* (ripe seed: mean content = 0.0036%)^[5508], FAN XIE YE *Cassia angustifolia*, HE SHOU WU *Polygonum multiflorum*, HU ZHANG *Polygonum cuspidatum*, HUANG HUA CAI *Hemerocallis citrina* (root: content = 0.0035%)^[5508], JIAN YE FAN XIE YE *Cassia acutifolia*, JUE MING ZI *Cassia tora* (ripe seed: content = 0.0129%^[5501]; = 0.0033%^[5508]), LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MI MAI E ZHANG CHAI *Schefflera venulosa* (stem cortex), NI BO ER YANG TI *Rumex nepalensis*, NIU SHE CAO *Rumex dentatus* (root: mean content = 0.0945%^[5508]), NIU XI *Achyranthes bidentata*, NIU XI XI *Rumex patientia* (root: mean content = 0.1543%^[5508]), PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00086%)^[4642], SHAN BIAN DOU ZI *Cassia mimosoides*, SHU LI *Rhamnus davurica*, SUAN MO *Rumex acetosa* (root: mean content = 0.1187%^[5508]), TANG GU TE DA HUANG *Rheum tanguticum*, TIAN SHAN DA HUANG *Rheum wittrockii*, TIE DAO MU *Cassia siamea*, WANG JIANG NAN *Cassia occidentalis*, XUAN CAO GEN *Hemerocallis fulva* (root: content = 0.00044%)^[5508], YANG TI *Rumex japonicus* (root: mean content = 0.1565%^[5508]), YI HE GUO *Ventilago leiocarpa* (stem)^[3057], YOU MU *Tectona grandis*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.25%dw)^[4711], ZHANG YE DA HUANG *Rheum palmatum*, occurs in many plants (very widely distributed: including *Cassia* spp., *Rumex* spp., *Rheum* spp., *Asphodelus* spp. and *Muehlenbeckia* spp.). Ref: 2, 4, 555, 582, 608, 660, 661, 3057, 4600, 4642, 4711, 5232, 5501, 5508.



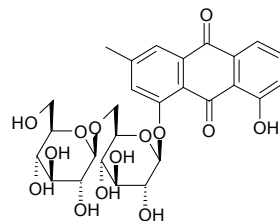
3616 Chrysophanol-8-O-β-D-(6'-O-galloyl)-glucopyranoside

C₂₈H₂₄O₁₃ (568.50). Aurantium acicular crystals (acetone) mp 213~216°C. Source: HE TAO DA HUANG *Rheum hotaoense*. Ref: 783.



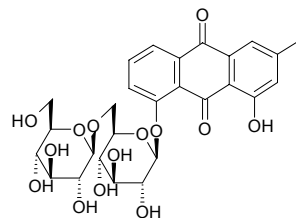
3617 Chrysophanol-1-β-gentiobioside

C₂₇H₃₀O₁₄ (578.53). Source: JUE MING ZI *Cassia tora*. Ref: 2.



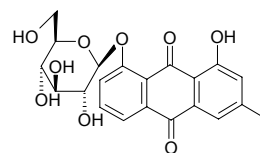
3618 Chrysophanol-8-O-gentiobioside

C₂₇H₃₀O₁₄ (578.53). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.067%dw). Ref: 4711.



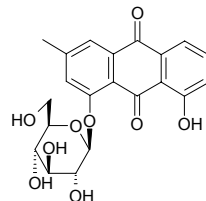
3619 Chrysophanol-8-O-β-D-glucopyranoside

C₂₁H₂₀O₉ (416.39). Pharm: Spermicidal (hmn); antioxidant inactive (DPPH radical scavenger assay)^[5232]; antioxidant inactive (DPPH radical scavenger, IC₅₀ > 100µg/mL; control Ascorbic acid, IC₅₀ = 3.9µg/mL)^[4711]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]. Source: DA HUANG *Rheum officinale*, NIU XI XI *Rumex patientia*, TANG GU TE DA HUANG *Rheum tanguticum*, TIAN SHAN DA HUANG *Rheum wittrockii*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.52%dw), ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 608, 658, 660, 4711, 5232.



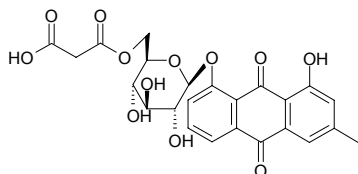
3620 Chrysophanol-1-O-β-D-glucoside

Chrysophanein; Chrysophanol-1-O-β-D-glucopyranoside [4839-60-5] C₂₁H₂₀O₉ (416.39). mp 245°C. Source: DA HUANG *Rheum officinale*, NIU ER DA HUANG *Rumex crispus*, PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.0002%)^[4642], SUAN MO *Rumex acetosa*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 6, 660, 4642.

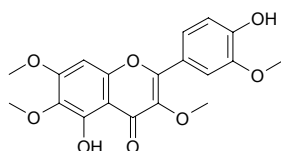


3621 Chrysophanol 8-O-β-D-(6'-O-malonyl) glucopyranoside

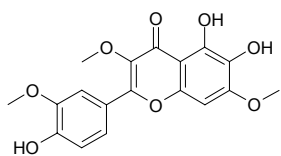
$C_{24}H_{22}O_{12}$ (502.44). Yellow powder. Source: QIN LING DA HUANG *Rheum qinlingense*. Ref: 811.

**3622 Chrysosplenetin**

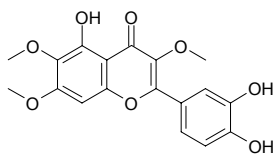
[603-56-5] $C_{19}H_{18}O_8$ (375.35). Pharm: Antiviral. Source: MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], RI BEN JIN YAO *Chrysosplenium japonicum*, SHANG ZUO ZHOU JIN YAO *Chrysosplenium tosaense*, SA SHI MAO DI HUANG *Digitalis thapsii*. Ref: 658.

**3623 Chrysosplenol**

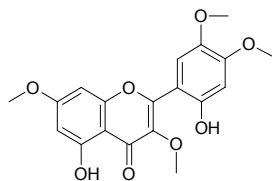
Chrysosplenol C $C_{18}H_{16}O_8$ (360.32). Pharm: Antiviral (rhinovirus II). Source: DUI YE JIN YAO *Chrysosplenium oppositifolium*, JIN YAO *Chrysosplenium alternifolium*, MA SHI JIN YAO *Chrysosplenium maximowiczii*, *Milisia balansae* (branch and leaf: yield = 0.109%dw)^[3016]. Ref: 658, 3016.

**3624 Chrysosplenol D**

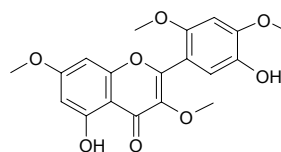
3,6,7-Trimethylquercetagenin $C_{18}H_{16}O_8$ (360.22). Source: HUANG HUA HAO *Artemisia annua* (seed), MAN JING ZI *Vitex trifolia* (dried ripe fruit: mean content of 5 origins = 0.0147%)^[5508]. Ref: 562, 3435, 5508.

**3625 Chrysosplenol E**

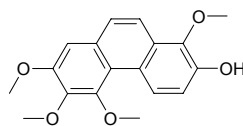
[23289-81-8] $C_{19}H_{18}O_8$ (374.35). mp 190–192°C (dil. methanol), branched yellowish crystals (acetone–ethanol), mp 147–149°C. Pharm: Inhibits promotor of cancer (TPA, IC₅₀ = 9.0μg/mL). Source: JIN QIAN KU YE CAO *Chrysosplenium grayanum*. Ref: 900.

**3626 Chrysosplenol G**

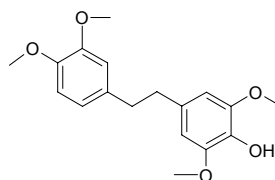
[130252-52-7] $C_{19}H_{18}O_8$ (374.35). Yellowish rhombic crystals (methanol), mp 153–155°C. Pharm: Cytotoxic (KB, ED₅₀ = (8.61±0.43)μg/mL). Source: JIN QIAN KU YE CAO *Chrysosplenium grayanum*. Ref: 1060.

**3627 Chrysotoxene**

2-Hydroxy-1,5,6,7-tetramethoxyphenanthrene $C_{18}H_{18}O_5$ (314.34). Colorless lamellar crystals, mp 177–178°C (petroleum spirit–chloroform). Source^[5508]: BAO CHUN SHI HU *Dendrobium primulinum* (stem: content = 0.129%), BEI QIAO SHI HU *Dendrobium gratiosissimum* (stem: content = 0.013%), GU CHUI SHI HU *Dendrobium chrysotoxum* (stem: content = 0.030%), HEI MAO SHI HU *Dendrobium williamsonii* (stem: content = 0.035%), LIU SU SHI HU *Dendrobium fimbriatum* var. *oculatum* (stem: content = trace), SHU HUA SHI HU *Dendrobium chrysanthum* (stem: content = 0.020%), TIE PI SHI HU *Dendrobium officinale* (stem: content = 0.020%), XI JING SHI HU *Dendrobium moniliforme* (stem: content = trace). Ref: 318, 5508.

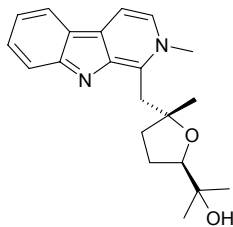
**3628 Chrysotoxin**

4-Hydroxy-3,5,3',4'-tetramethoxybibenzyl $C_{18}H_{22}O_5$ (318.37). Colorless needle (*n*-hexane–chloroform), mp 97–98°C. Source: GU CHUI SHI HU *Dendrobium chrysotoxum*. Ref: 351.

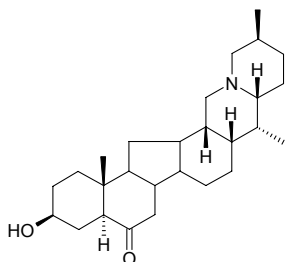


3629 Chrysotricine

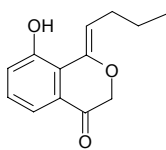
$C_{21}H_{26}N_2O_2$ (338.45). Yellow amorphous solids, $[\alpha]_D = +10^\circ$ ($c = 0.50$, MeOH). Source: JIN MAO ER CAO *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], XIAO TOU LIANG HOU CHA *Hedyotis capitellata*. Ref: 1521, 2424.

**3630 Chuanbeinone**

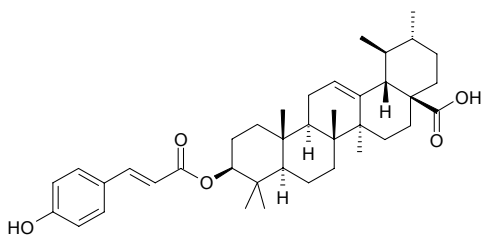
[103530-47-8] $C_{27}H_{43}NO_2$ (413.65). Source: LENG SHA BEI MU *Fritillaria delavayi*, NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*, GAN SU BEI MU *Fritillaria przewalskii*. Ref: 2, 271, 660.

**3631 Chuanxiongol**

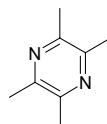
$C_{13}H_{14}O_3$ (218.25). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**3632 Chuanxiongterpene**

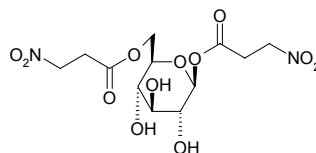
$C_{39}H_{54}O_5$ (602.86). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2251.

**3633 Chuanxiongine**

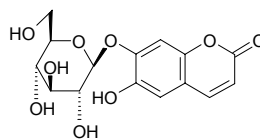
2,3,5,6-Tetramethylpyrazine [1124-11-4] $C_8H_{12}N_2$ (136.20). Pharm: Antibacterial (gram-positive bacteria); antispasmodic (rbt aorta *in vitro*); ganglionic blocker; improves acute myocardial ischemia (rbt); coronary vasodilator; increases coronary flow (dog); platelet aggregation inhibitor (induced by ADP, collagen and thrombase); antihypertensive; increases tolerance to anoxia (mus); cardioprotective agent (isolated rat hearts, protective effects on ischemia reperfusion and DPPH-induced myocardial injury; related with reduction of TNF- α content by inhibition of free radical production)^[5017]; LD₅₀ (mus, iv) = 239mg/kg. Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (rhizome: content = 6.24%^[5501]; = 0.0168%^[5508]), MA HUANG *Ephedra sinica* (herbaceous twigs: content = 0.0624%^[5508]), MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: content = 0.0172%^[5508]), YU JIN *Curcuma aromatica*. Ref: 2, 4, 658, 660, 5017, 5501, 5508.

**3634 Cibarian**

[39797-90-5] $C_{12}H_{18}N_2O_{12}$ (382.28). Pharm: Toxin. Source: DUAN CHI HUANG QI *Astragalus canadensis* var. *brevidens*, JIA NA DA HUANG QI *Astragalus canadensis* var. *mortonii*, LIAN XING HUANG QI *Astragalus falcatus*, SHI YONG HUANG QI *Astragalus cibarius*, WAN YAN HUANG QI *Astragalus flexuosus*. Ref: 658.

**3635 Cichoriin**

[531-58-8] $C_{15}H_{16}O_9$ (340.29). mp 215~220°C. Pharm: Insect antifeedant (grasshopper). Source: JU QU *Cichorium intybus*, *Artemisia* sp., *Centaurea* sp., *Launaea* sp., *Sonchus* sp. Ref: 6, 658.

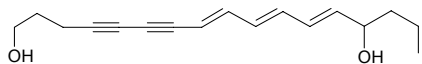
**3636 Cicutol**

$C_{17}H_{22}O$ (242.36). mp 66°C. Source: DU QIN GEN *Cicuta virosa*. Ref: 6.

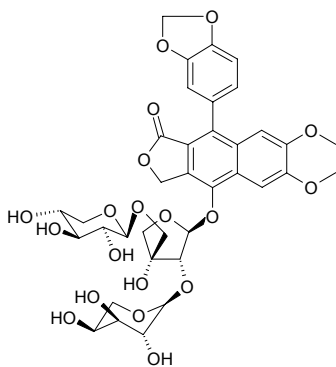


3637 Cicutoxin

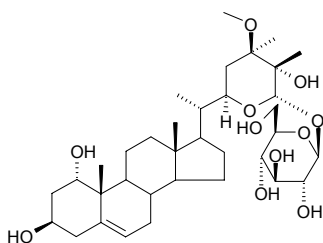
[505-75-9] $C_{17}H_{22}O_2$ (258.37). mp 54°C. Pharm: Antineoplastic (leukemia); eclamptogenic (increases blood pressure, accelerating breathing and leading ultimately to death at high dose); CNS depressant (at low dose, sedative, antihypertensive, and slightly increases urine quantity); LD₅₀ (cat, iv) = 48.3mg/kg. Source: DU QIN GEN *Cicuta virosa*. Ref: 6, 658.

**3638 Ciliatoside A**

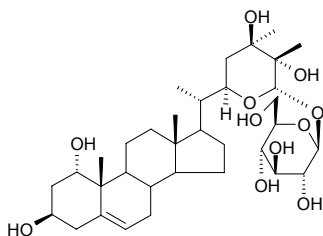
$C_{36}H_{40}O_{19}$ (776.71). Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.0001%dw). Ref: 4612.

**3639 Cilistol I**

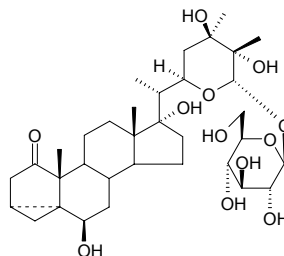
(22*R*,24*R*,25*R*,26*S*)-22,26-Epoxy-24-*O*-methyl-1 α ,3 β ,24,25,26-pentahydroxyergost-5-ene 26-*O*- β -*D*-glucopyranoside $C_{35}H_{58}O_{11}$ (654.85). Amorphous powder, $[\alpha]_D^{23} = -56.5^\circ$ ($c = 0.46$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3640 Cilistol J**

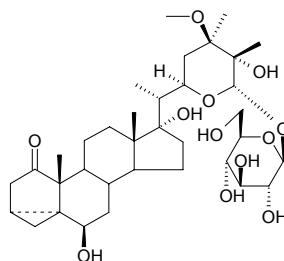
$C_{34}H_{56}O_{11}$ (640.82). Amorphous powder, $[\alpha]_D^{23} = -63.7^\circ$ ($c = 0.19$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3641 Cilistol p**

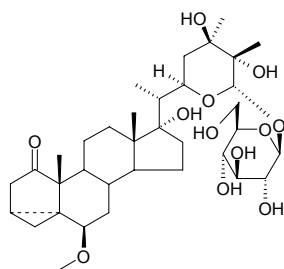
(22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3 α ,5 α -cycloergostane-6 β ,17 α ,24,25,26-pentaol 26-*O*- β -*D*-glucopyranoside $C_{34}H_{54}O_{12}$ (654.80). Amorphous powder, $[\alpha]_D^{23} = -77.8^\circ$ ($c = 0.23$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 4138.

**3642 Cilistol pl**

(22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3 α ,5 α -cycloergostane-6 β ,17 α ,24,25,26-pentaol 26-*O*- β -*D*-glucopyranoside 24-*O*-methyl ether $C_{35}H_{56}O_{12}$ (668.83). Amorphous powder, $[\alpha]_D^{23} = -125.0^\circ$ ($c = 0.26$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 4138.

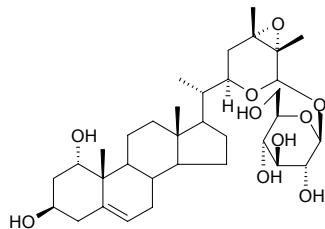
**3643 Cilistol pm**

(22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3 α ,5 α -cycloergostane-6 β ,17 α ,24,25,26-pentaol 26-*O*- β -*D*-glucopyranoside 6-*O*-methyl ether $C_{35}H_{56}O_{12}$ (668.83). Amorphous powder, $[\alpha]_D^{23} = -65.2^\circ$ ($c = 0.36$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 4138.

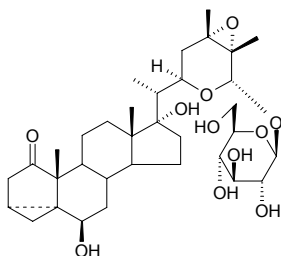


3644 Cilistol T

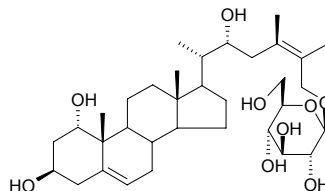
(22*R*,24*S*,25*R*,26*S*)-24,25,22,26-diepoxy-1 α ,3 δ ,26-trihydroxyergost-5-ene 26-*O*- β -*D*-glucopyranoside C₃₄H₅₄O₁₀ (622.80). Amorphous powder, $[\alpha]_D^{23} = -54.4^\circ$ ($c = 0.62$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3645 Cilistol U**

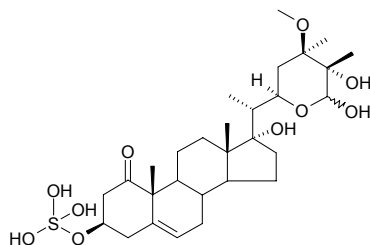
C₃₄H₅₂O₁₁ (636.79). Amorphous powder, $[\alpha]_D^{23} = -102.0^\circ$ ($c = 0.15$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 4138.

**3646 Cilistol V**

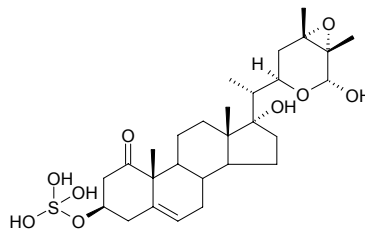
(22*R*,24*Z*)-1 α ,3 β ,22,26-tetrahydroxyergost-5,24-diene 26-*O*- β -*D*-glucopyranoside. C₃₄H₅₆O₉ (608.82). Amorphous powder, $[\alpha]_D^{23} = -23.4^\circ$ ($c = 0.23$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3647 Cilistol W**

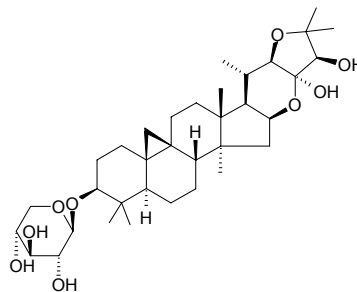
(22*R*,24*R*,25*R*,26 Φ)-1-oxo-22,26-epoxy-24-*O*-methyl-3 β ,17 α ,24,25,26-penta-hydroxyergost-5-ene 3-*O*-sulfate C₂₉H₄₈O₁₀S (588.76). Amorphous powder, $[\alpha]_D^{23} = +12.6^\circ$ ($c = 0.71$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3648 Cilistol Y**

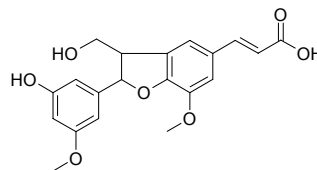
(22*R*,24*S*,25*R*,26*R*)-1-Oxo-22,26;24,25-diepoxy-3 β ,17 α ,26-trihydroxyergost-5-ene 3-*O*-sulfate C₂₈H₄₄O₉S (556.72). Amorphous powder, $[\alpha]_D^{23} = +8.6^\circ$ ($c = 0.21$, MeOH). Source: DING QIE *Solanum aculeatissimum* (leaf). Ref: 3509.

**3649 Cimiaceroside B**

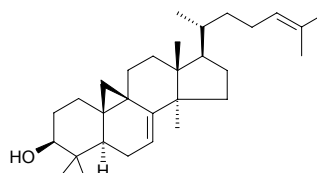
[210643-84-8] C₃₅H₅₆O₉ (620.83). White amorphous powder, mp 239~241°C (MeOH). Pharm: Immunosuppressant (mouse allogeneic mixed lymphocyte reaction, suppresses the proliferation of lymphocytes, IC₅₀ = 103 μmol/L)^[4330]. Source: HUANG SAN QI *Souliea vaginata* (Rhizome), SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*, *Cimicifuga* sp. (rhizome). Ref: 1521, 4291, 4330.

**3650 Cimicifugic acid**

C₂₀H₂₀O₇ (372.38). White crystals, mp 233~235°C, $[\alpha]_D^{20} = +5.19^\circ$ ($c = 0.48$, MeOH). Source: SHENG MA *Cimicifuga foetida*. Ref: 2232.

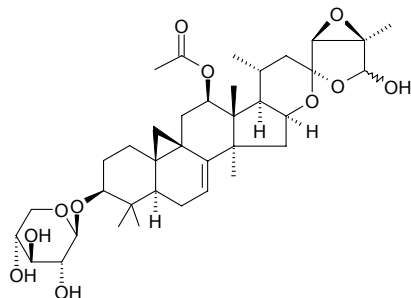
**3651 Cimicifugenol**

[28282-48-6] C₃₀H₄₈O (424.72). mp 112~113°C. Source: SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*. Ref: 6.

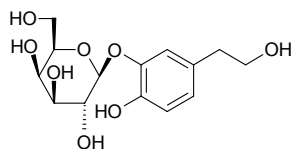


3652 Cimicifugoside

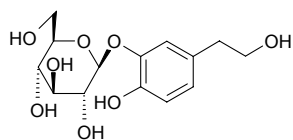
[66176-93-0] C₃₇H₅₄O₁₁ (674.84). mp 237~238°C. **Pharm:** Selectively inhibits nucleoside transport across cellular chorion (mammal). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*] (dried root: mean content of 15 origins = 0.277%)^[5508], XING AN SHENG MA *Cimicifuga dahurica*, YE SHENG MA *Cimicifuga simplex*, *Cimicifuga* sp. **Ref:** 6, 658, 660, 5508.

**3653 Cimidahurine**

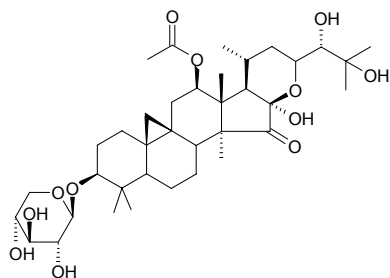
3,4-Dihydroxy- β -phenethanol-3-*O*- β -D-galactopyranoside C₁₄H₂₀O₈ (316.31). White amorphous powder, mp 78~80°C, $[\alpha]_D^{17} = -51.2^\circ$ ($c = 0.15$, methanol). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 294.

**3654 Cimidahurinine**

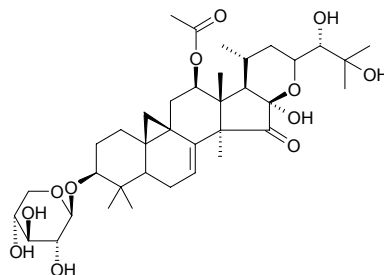
3,4-Dihydroxy- β -phenethanol-3-*O*- β -D-glucopyranoside C₁₄H₂₀O₈ (316.31). White amorphous powder, mp 86~90°C, $[\alpha]_D^{17} = -45.6^\circ$ ($c = 0.07$, methanol). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 294.

**3655 Cimidahuside C**

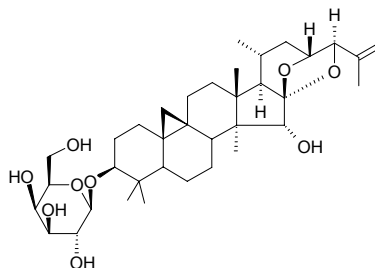
C₃₇H₅₈O₁₂ (694.87). White amorphous powder, mp 172~173°C, $[\alpha]_D^{20} = -48.0^\circ$ ($c = 0.25$, CHCl₃/MeOH). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 2476.

**3656 Cimidahuside D**

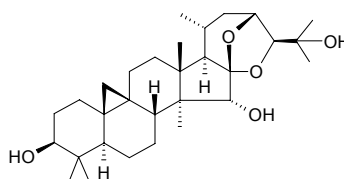
C₃₇H₅₆O₁₂ (692.85). White amorphous powder, mp 160~162°C, $[\alpha]_D^{20} = -56.3^\circ$ ($c = 0.36$, CHCl₃-MeOH). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 2476.

**3657 Cimifoetiside III**

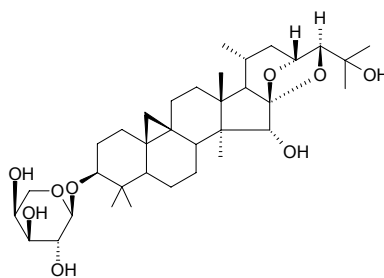
C₃₆H₅₆O₉ (632.84). White powder, mp 174~176°C, $[\alpha]_D^{20} = -57.2^\circ$ ($c = 0.21$, CHCl₃). **Source:** SHENG MA *Cimicifuga foetida*. **Ref:** 2429.

**3658 Cimigenol**

[3779-59-7] C₃₀H₄₈O₅ (488.71). **Source:** SHENG MA *Cimicifuga foetida*, YE SHENG MA *Cimicifuga simplex*, XING AN SHENG MA *Cimicifuga dahurica*, ZONG ZHUANG SHENG MA *Cimicifuga racemosa*. **Ref:** 2215, 4140.

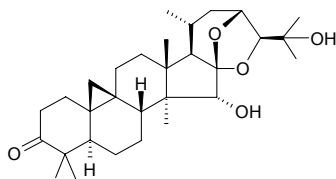
**3659 Cimigenol 3-*O*- α -L-arabinopyranoside**

C₃₅H₅₆O₉ (620.83). **Pharm:** Cytotoxic (HSC-2 cells, IC₅₀ > 400 μ mol/L, control Etoposide, IC₅₀ = 24 μ mol/L; HGF cells, IC₅₀ > 400 μ mol/L). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

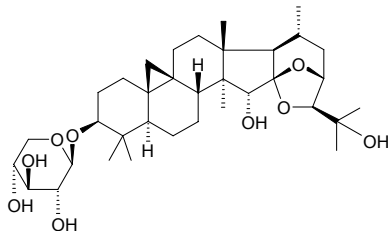


3660 Cimigenol-3-one

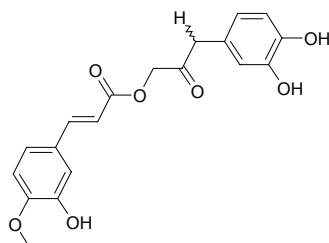
$C_{30}H_{46}O_5$ (486.70). Source: RI BEN SHENG MA *Cimicifuga japonica*. Ref: 2215.

**3661 Cimigenoside**

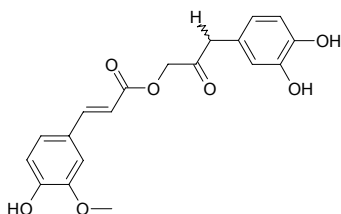
[27994-11-2] $C_{35}H_{56}O_9$ (620.83). mp 261~264°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 6.

**3662 Cimiracemate A**

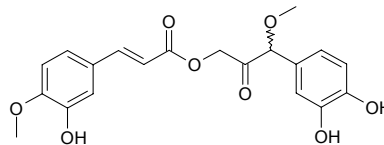
$C_{19}H_{18}O_7$ (358.35). Light brown powder, mp 94~96°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 1924.

**3663 Cimiracemate B**

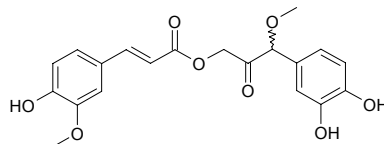
$C_{19}H_{18}O_7$ (358.35). Light brown powder, mp 86.0~88.5°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 1924.

**3664 Cimiracemate C**

$C_{20}H_{20}O_8$ (388.38). Light brown powder, mp 88~90°C, $[\alpha]_D^{20} = -6.82^\circ$ ($c = 0.147$, MeOH). Source: YE SHENG MA *Cimicifuga simplex*. Ref: 1924.

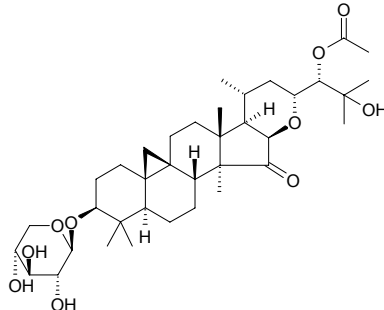
**3665 Cimiracemate D**

$C_{20}H_{20}O_8$ (388.38). Light brown powder, mp 100~102°C, $[\alpha]_D^{20} = -6.25^\circ$ ($c = 0.147$, MeOH). Source: YE SHENG MA *Cimicifuga simplex*. Ref: 1924.

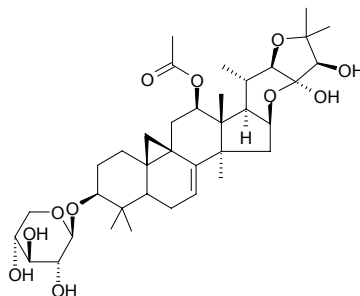
**3666 Cimiracemoside E**

24-O-Acetylisodahurinol-3-O-β-D-xylopyranoside $C_{37}H_{58}O_{10}$ (622.87).

Colorless needle, mp 223~224°C (MeOH). Source: HUANG SAN QI *Souliea vaginata* (Rhizome), ZONG ZHUANG SHENG MA *Cimicifuga racemosa*. Ref: 1521, 4291.

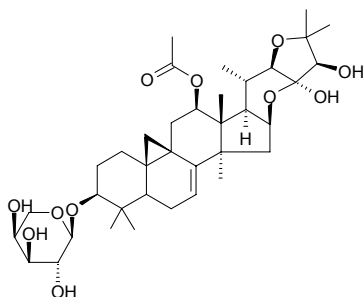
**3667 Cimiracemoside F**

$C_{37}H_{56}O_{11}$ (676.85). Pharm: Cytotoxic (HSC-2 cells, $IC_{50} = 80\mu\text{mol/L}$, control Etoposide, $IC_{50} = 24\mu\text{mol/L}$; HGF cells, $IC_{50} = 275\mu\text{mol/L}$). Source: ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). Ref: 4158.

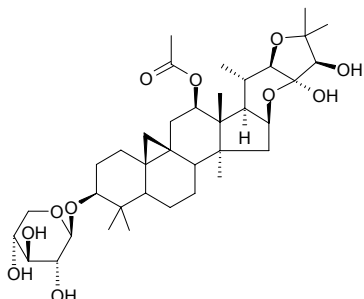


3668 Cimracemoside G

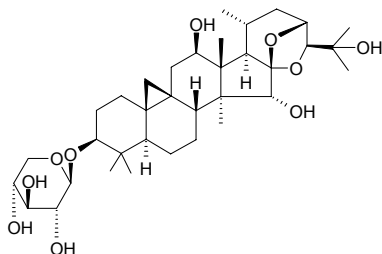
$C_{37}H_{56}O_{11}$ (676.85). **Pharm:** Cytotoxic (HSC-2 cells, $IC_{50} = 18\mu\text{mol/L}$, control Etoposide, $IC_{50} = 24\mu\text{mol/L}$; HGF cells, $IC_{50} = 280\mu\text{mol/L}$). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

**3669 Cimracemoside H**

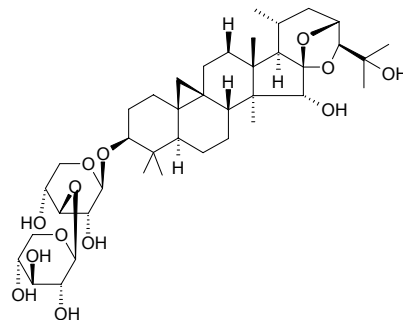
$C_{37}H_{58}O_{11}$ (678.87). **Pharm:** Cytotoxic (HSC-2 cells, $IC_{50} = 171\mu\text{mol/L}$, control Etoposide, $IC_{50} = 24\mu\text{mol/L}$; HGF cells, $IC_{50} = 294\mu\text{mol/L}$). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

**3670 Cimside A**

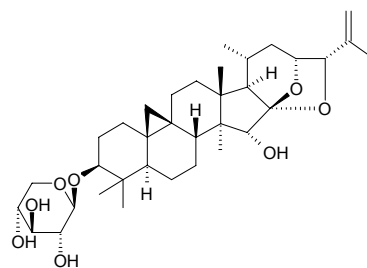
$C_{35}H_{56}O_{10}$ (636.83). Colorless acicular crystals, mp 262–264°C, $[\alpha]_D^{15} = -36.8^\circ$ ($c = 0.063$, $\text{CHCl}_3:\text{CH}_3\text{OH} = 1:1$). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 282.

**3671 Cimside B**

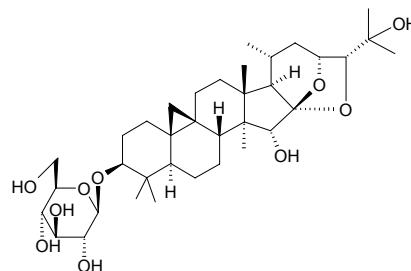
$C_{40}H_{64}O_{13}$ (752.95). White amorphous powder, $[\alpha]_D^{15} = -15.3^\circ$ ($c = 0.072$, $\text{CHCl}_3:\text{CH}_3\text{OH} = 1:1$). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 282.

**3672 Cimside E**

25-Anhydrocimicigenol-3-*O*- β -D-xylopyranoside-(23*R*,24*S*) [154822-57-8] $C_{35}H_{54}O_8$ (602.82). Colorless acicular crystals, mp > 300°C, $[\alpha]_D^{19} = +31.4^\circ$ ($c = 0.058$, chloroform:methanol = 1:1). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 304, 660.

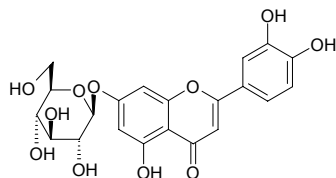
**3673 Cimside F**

$C_{36}H_{58}O_{10}$ (650.86). White powder, mp 107–110°C, $[\alpha]_D^{29} = 0^\circ$ ($c = 0.075$, methanol). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 320, 660.

**3674 Cinaroside**

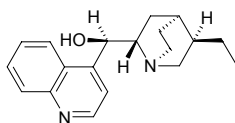
Luteolin-7-*O*-glucoside; Cymaroside [5373-11-5] $C_{21}H_{20}O_{11}$ (448.39). Yellow granular crystals, mp 255–260°C; $[\alpha]_D^{20} = -48^\circ$ ($c = 0.15$, EtOH). **Pharm:** Aldose reductase inhibitor ($IC_{50} = 0.99\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4214, 4530]; phagostimulant (*Chrysomela vigintipunctata*); antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 60.6\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$)^[5009]; antileishmanial

(*Leishmania donovani*, $IC_{50} = 1.1 \mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102 \mu\text{g/mL}$)^[5009], antimalarial (*Plasmodium falciparum*, $IC_{50} = 2.4 \mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022 \mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90 \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008 \mu\text{g/mL}$)^[5009]; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF- α and IL-6 release in RAW264.7 macrophages, $IC_{50} = 50 \mu\text{mol/L}$)^[4416]; antioxidant (DPPH scavenger, DPPH radical $15 \mu\text{mol/L}$: $10 \mu\text{mol/L}$, ScRt = 38.0%; control BHA, $10 \mu\text{mol/L}$, ScRt = 23.0%; Vitamin E, $10 \mu\text{mol/L}$, ScRt = 41.1%)^[3846]. **Source:** DA CHE QIAN *Plantago major*, HU ZHANG *Polygonum cuspidatum*, HUANG HUA HAO *Artemisia annua*, JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*^[3846], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (dried capitulum: content scope of 20 origins = 0.009%~0.472%, mean content = 0.154%)^[5508], LV CAO *Humulus japonicus* [Syn. *Humulus scandens*], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), XIA KU CAO *Prunella vulgaris*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, YANG QING LAN *Dracocephalum rupestre* (whole herb: mean content = 0.33%)^[5508], YAO YONG PU GONG YING *Taraxacum officinale*, YE JU HUA *Chrysanthemum indicum*, ZHAN LONG JIAN *Veronicastrum sibiricum*, ZONG KUI CAO SU *Phlomis brunneogaleata*, *Salix* sp. **Ref:** 2, 4, 440, 475, 658, 660, 2508, 3846, 4214, 4416, 4530, 5009, 5508.



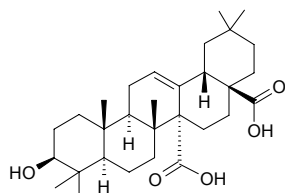
3675 Cinchamide

Hydrocinchonidine [485-64-3] $C_{19}H_{24}N_2O$ (296.42). **Source:** JIN JI LE *Cinchona ledgeriana*. **Ref:** 6.



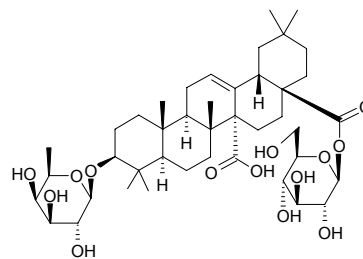
3676 Cincholic acid

[5948-32-3] $C_{30}H_{46}O_5$ (486.70). mp 265~268°C (dec). **Source:** SHUI TUAN HUA *Adina pilulifera* [Syn. *Cephalanthus pilulifera*]. **Ref:** 6.



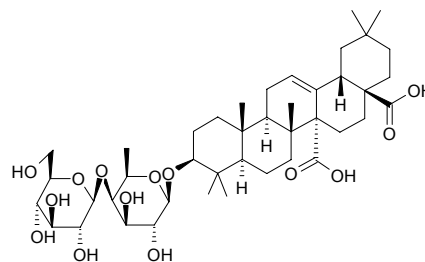
3677 Cincholic acid 3 β -O- β -D-fucopyranosyl-28-O- β -D-glucopyranosyl ester

$C_{42}H_{66}O_{14}$ (794.99). Colorless amorphous powder, $[\alpha]_D^{25} = +36.0^\circ$ ($c = 1.21$, MeOH). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 2581.



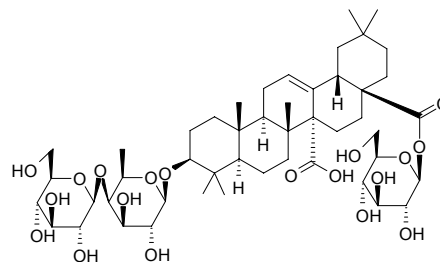
3678 Cincholic acid 3 β -O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-fucopyranoside

$C_{42}H_{66}O_{14}$ (794.99). Colorless amorphous powder, $[\alpha]_D^{25} = +31.2^\circ$ ($c = 0.82$, MeOH). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 2581.



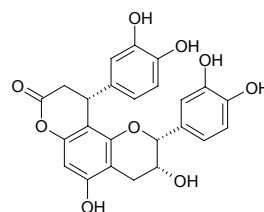
3679 Cincholic acid 3 β -O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-fucopyranosyl-28-O- β -D-glucopyranosyl ester

$C_{48}H_{76}O_{19}$ (957.13). Colorless amorphous powder, $[\alpha]_D^{25} = +26.0^\circ$ ($c = 1.11$, MeOH). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 2581.



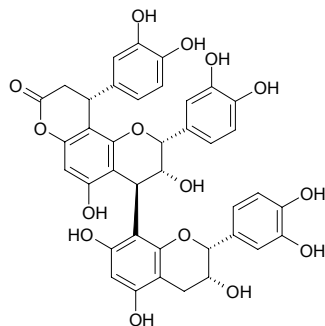
3680 Cinchonain Ia

$C_{24}H_{20}O_9$ (452.42). **Pharm:** Antioxidant. **Source:** BI LU GOU TENG *Uncaria tomentosa*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

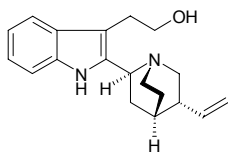


3681 Cinchonain Ib

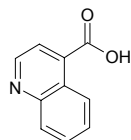
$C_{39}H_{32}O_{15}$ (740.68). Pharm: Antioxidant. Source: BI LU GOU TENG *Uncaria tomentosa*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 5341.

**3682 Cinchonamine**

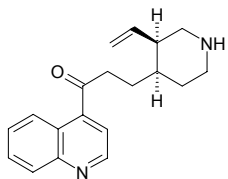
[482-28-0] $C_{19}H_{24}N_2O$ (296.42). mp 186°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**3683 Cinchonic acid**

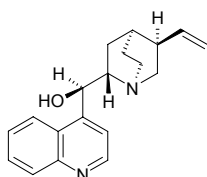
[486-74-8] $C_{10}H_7NO_2$ (173.17). mp 253–254°C. Source: SHE XIANG CAO *Thymus vulgaris*. Ref: 6.

**3684 Cinchonidine**

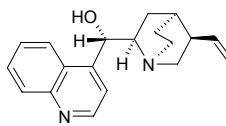
[69-24-9] $C_{19}H_{22}N_2O$ (294.40). mp 58–60°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**3685 Cinchonidine**

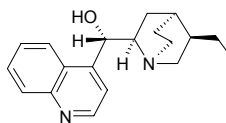
(8 α ,9*R*)-Cinchonan-9-ol [485-71-2] $C_{19}H_{22}N_2O$ (294.40). mp 210.5°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**3686 Cinchonine**

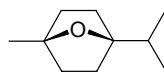
9-Cinchonan-9-ol [118-10-5] $C_{19}H_{22}N_2O$ (294.40). Colorless acicular crystals, mp 255°C, $[\alpha]_D^{17} = +229^\circ$ (ethanol), slightly soluble in ethanol, hot water, chloroform, ether, almost insoluble in cold water.^[5507] Pharm: Antimalarial (slimicide). Source: YOU GAN LAN *Olea europaea*, OU ZHOU NV ZHEN *Ligustrum vulgare*, JIN JI LE *Cinchona ledgeriana*. Ref: 6, 658, 5507.

**3687 Cinchotine**

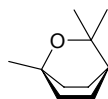
[485-65-4] $C_{19}H_{24}N_2O$ (296.42). mp 268–269°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**3688 1,4-Cineole**

[470-67-7] $C_{10}H_{18}O$ (154.25). Source: HOU PO *Magnolia officinalis*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. Ref: 2.

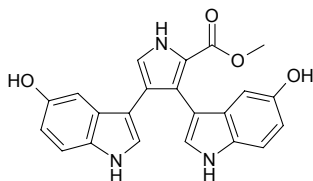
**3689 1,8-Cineole**

1,3,3-Trimethyl-2-oxabicyclo[2.2.2]octane [470-82-6] $C_{10}H_{18}O$ (154.25). Pharm: Antibacterial (gram-positive: *Staphylococcus aureus* ATCC25923, MIC = 6.4mg/mL; *Staphylococcus epidermidis* ATCC12228, MIC = 6.4mg/mL; *Streptococcus pyogenes* ATCC19615, MIC = 3.2mg/mL; *Streptococcus mutans* ATCC25175, MIC = 6.4mg/mL; *Enterococcus faecalis* ATCC33186, MIC = 6.4mg/mL; *Enterococcus gallinarum* CDC-42, MIC = 6.4mg/mL; gram-negative: *Salmonella typhimurium* ATCC14028, MIC, 6.4mg/mL; *Escherichia coli* ATCC25922, MIC = 3.2mg/mL; *Escherichia coli* O157:H7 ATCC43894, MIC = 6.4mg/mL; *Enterobacter cloacae* ATCC23350, MIC = 6.4mg/mL; *Klebsiella pneumoniae* ATCC13883, MIC = 6.4mg/mL; *Pseudomonas aeruginosa* ATCC27853, MIC > 12.8mg/mL; *Vibrio vulnificus* ATCC29307, MIC = 3.2mg/mL; *Citrobacter freundii* ATCC8090, MIC = 6.4mg/mL)^[5373]; antipyretic; anti-inflammatory; antiasthmatic; analgesic. Source: BEI YE JU *Chrysanthemum boreale*, DONG LING CAO *Rabdosia rubescens*, GAN JIANG *Zingiber officinale*, HUA JIAO *Zanthoxylum bungeanum*, HUANG HUA HAO *Artemisia annua*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, MAN JING ZI *Vitex trifolia*, SHENG JIANG *Zingiber officinale*, XI XIN *Asarum sieboldii*. Ref: 2, 660, 5373, 5501.

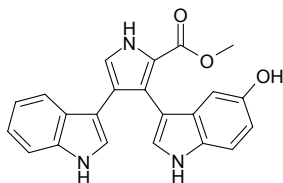


3690 Cinereapyrrole A

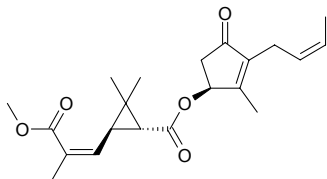
$C_{22}H_{17}N_3O_4$ (387.40). Dark brown amorphous powder. Source: HUI JIN SE TUAN WANG JUN *Arcyria cinerea* (wild sporocarp). Ref: 4465.

**3691 Cinereapyrrole B**

$C_{22}H_{17}N_3O_3$ (371.40). Dark brown amorphous powder. Source: HUI JIN SE TUAN WANG JUN *Arcyria cinerea* (wild sporocarp). Ref: 4465.

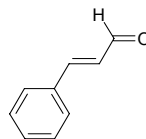
**3692 CinerinII**

[121-20-0] $C_{21}H_{28}O_5$ (360.45). Pharm: Causes involuntary repetitive movement (hmn); damages function of liver and kidney (hmn); laxative (hmn); paralyses respiration (hmn); pesticide. Source: CHU CHONG JU *Chrysanthemum cinerariaefolium*. Ref: 658.

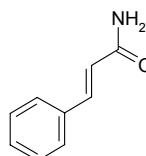
**3693 Cinnamaldehyde**

Cinnamic aldehyde [104-55-2] C_9H_8O (132.16). Yellowish oily liquid, strong Chinese cinnamon odor, mp -7.5°C , bp $246.0^\circ\text{C}/760\text{mmHg}$, $76.1^\circ\text{C}/1\text{mmHg}$. Pharm: Analgesic (mus); antineoplastic (mus tumor due to SV40 virus, $50\mu\text{g}/\text{mL}$ iv, InRt = 100%); antifungal; antipyretic (mus); NF- κB inhibitor (LPS-induced NF- κB transcriptional activity, $\text{IC}_{50} = 43\mu\text{mol}/\text{L}$, positive control Caffeic acid phenethyl ester (CAPE), $\text{IC}_{50} = 2\mu\text{mol}/\text{L}$; NF- κB is a transcription factor regulating expression of inflammatory and immune genes)^[5018]; LD_{50} (mus, iv) = $132\text{mg}/\text{kg}$, (mus, ip) = $610\text{mg}/\text{kg}$, (mus, orl) = $2225\text{mg}/\text{kg}$. Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], GUI PI *Cinnamomum japonicum* (bark: content = 2.19%)^[5508], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (twig: content scope = 0.15%~0.70%^[5501], content scope of 40 origins = 0.198%~1.17%, mean content = 0.68%^[5508]), KONG SHI CHUN *Ulva pertusa*, MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*], ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (bark: content

scope = 0.9%~3.5%^[5501], content scope of 6 origins = 0.76%~3.37%, mean content = 2.56%^[5508]), SAN TIAO JIN *Cinnamomum tamala*, XI LAN ROU GUI *Cinnamomum zeylanicum*, *Hyacinthus* sp., *Lavandula* sp., *Narcissus* sp. Ref: 2, 658, 660, 661, 5018, 5501, 5508.

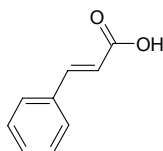
**3694 trans-Cinnamamide**

C_9H_9NO (147.18). Pharm: Platelet aggregation inhibitor (rbt platelets induced by thrombin, $100\mu\text{g}/\text{mL}$, add thrombin 0.1u/mL, AggRt = $(90.4\pm 0.8)\%$, control AggRt = $(92.6\pm 0.4)\%$; add AA, $100\mu\text{mol}/\text{L}$, $50\mu\text{g}/\text{mL}$, AggRt = $(85.8\pm 0.8)\%$, control AggRt = $(87.8\pm 0.3)\%$, Aspirin $50\mu\text{g}/\text{mL}$, AggRt = $(11.7\pm 10.1)\%$; add collagen $10\mu\text{g}/\text{mL}$, $50\mu\text{g}/\text{mL}$, AggRt = $(91.0\pm 0.4)\%$, control AggRt = $(89.3\pm 0.5)\%$, Aspirin $100\mu\text{g}/\text{mL}$, AggRt = $(81.3\pm 0.5)\%$; add PAF $2\text{ng}/\text{mL}$, $50\mu\text{g}/\text{mL}$, AggRt = $(90.1\pm 1.1)\%$, control AggRt = $(93.0\pm 0.6)\%$). Source: TAI WAN HU JIAO *Piper taiwanense* (stem). Ref: 4938.

**3695 Cinnamic acid**

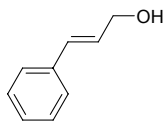
3-Phenylacrylic acid [140-10-3] $C_9H_8O_2$ (148.16). mp $132\sim 134^\circ\text{C}$. Pharm: Antibacterial; antifungal; antispasmodic; choleric (dog); laxative (rat); leukopoietic; dermatitic (causes contact dermatitis); neuroprotectant (primary cultures of rat cortical cells injured by glutamate, $0.1\mu\text{mol}/\text{L}$, cell viability = $(28.2\pm 2.9)\%$, control MK-801, $0.1\mu\text{mol}/\text{L}$, cell viability = $(31.8\pm 7.1)\%$, APV, $0.1\mu\text{mol}/\text{L}$, cell viability = $(5.7\pm 1.9)\%$, XNXX, $0.1\mu\text{mol}/\text{L}$, cell viability = $(28.1\pm 5.6)\%$ ^[3967]; elastase inhibitor (hmn leukocyte *in vitro*, $\text{IC}_{50} > 500\mu\text{g}/\text{mL}$ ($800\mu\text{mol}/\text{L}$); control Caffeic acid, $\text{IC}_{50} = 86\mu\text{g}/\text{mL} = 475\mu\text{mol}/\text{L}$ ^[5458]; cytotoxic inactive (MCF7, $\text{IC}_{50} > 100\mu\text{mol}/\text{L}$, control Adriamycin, $\text{IC}_{50} = (1.5\pm 0.2)\mu\text{mol}/\text{L}$; K562, $\text{IC}_{50} > 100\mu\text{mol}/\text{L}$, Adriamycin, $\text{IC}_{50} = (0.07\pm 0.01)\mu\text{mol}/\text{L}$; Bowes, $\text{IC}_{50} > 100\mu\text{mol}/\text{L}$, Adriamycin, $\text{IC}_{50} = (0.45\pm 0.01)\mu\text{mol}/\text{L}$; T24S, $\text{IC}_{50} > 100\mu\text{mol}/\text{L}$, Adriamycin, $\text{IC}_{50} = (5.8\pm 0.6)\mu\text{mol}/\text{L}$; A549, $\text{IC}_{50} > 100\mu\text{mol}/\text{L}$, Adriamycin, $\text{IC}_{50} = (15.8\pm 6.7)\mu\text{mol}/\text{L}$ ^[5288]. Source: AN XI XIANG *Styrax benzoin* (balsam: content = 16.9%)^[5508], BEI XUAN SHEN *Scrophularia buergeriana* (root), BI LU XIANG JIAO *Myroxylon pereirae*, DA CHE QIAN *Plantago major*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GOU QI GEN PI *Lycium chinense*, GOU QI ZI *Lycium chinense*, GU KE *Erythroxylum coca*, GUI PI *Cinnamomum japonicum* (bark: content = 0.037%)^[5508], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum*

aromaticum] (twig: content scope of 40 origins = 0.015%–0.087%, mean content = 0.040%^[5508]), HU HUANG LIAN *Picrorhiza kurrooa* (dried rhizome: content scope = 0.53%–1.13%^[5508]), HUI XIANG *Foeniculum vulgare*, LIN SHENG XUAN SHEN *Scrophularia nodosa*, MU ZEI MA HUANG *Ephedra equisetina*, NAN FEI GOU MA *Harpagophytum procumbens*, QING LIANG BAI HE *Lilium candidum*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (bark: mean content of 3 origins = 0.024%^[5508]), SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, SU HE XIANG *Liquidambar orientalis* (balsam: content = 7.03%^[5508]), TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00010%fw)^[4686], XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 0.53%–1.13%^[5508]), XUAN SHEN *Scrophularia ningpoensis* (root: mean content of 22 origins = 0.032%^[5508]), *Alpinia* sp., *Styrax* sp., *Populus* sp., *Globularia* sp., occurs in many plants. Ref: 2, 4, 658, 660, 2545, 3967, 4686, 5288, 5458, 5501, 5508.



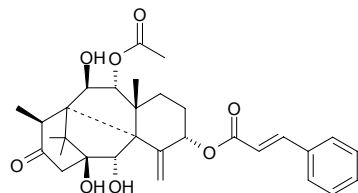
3696 Cinnamic alcohol

2-Phenyl-2-propen-1-ol [104-54-1] C₉H₁₀O (134.18). mp 33°C, bp 258°C. Source: GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (twig: content scope of 40 origins = 0.0%–0.217%, mean content = 0.030%^[5508]; bark: content scope of 3 origins = 0.002%–0.068%, mean content = 0.033%^[5508]), LANG DU *Stellera chamaejasme*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6, 660, 5508.



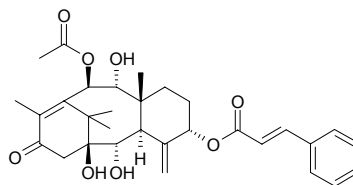
3697 5-Cinnamoyl-9-O-acetylphototaxicin I

C₃₁H₃₈O₈ (538.64). mp 78–80°C, [α]_D = +3.2° (CH₂Cl₂). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.



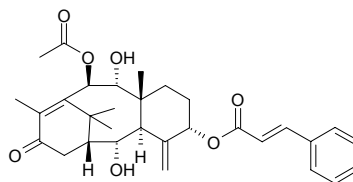
3698 5-Cinnamoyl-10-aceyltaxicin I

C₃₁H₃₈O₈ (538.64). mp 145°C, [α]_D = +185° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.



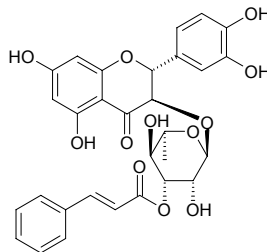
3699 5-Cinnamoyl-10-aceyltaxicin II

C₃₁H₃₈O₇ (522.64). mp 204–205°C, [α]_D = +128° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.



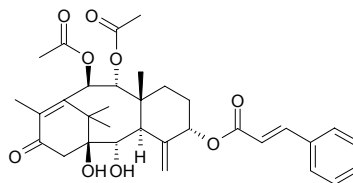
3700 3'-O-trans-Cinnamoyl-astilbin

C₃₀H₂₈O₁₂ (580.55). [α]_D²⁰ = +1.29° (c = 0.22, acetone). Pharm: Antimalarial (*Plasmodium falciparum* PoW, IC₅₀ = (10.4±1.3)μg/mL, control Chloroquine diphosphate, IC₅₀ = (0.006±0.002)μg/mL; Dd2, IC₅₀ = (4.2±1.3)μg/mL, Chloroquine diphosphate, IC₅₀ = (0.06±0.01)μg/mL). Source: WU CI KE YA SHU *Andira inermis* (leaf). Ref: 5208.



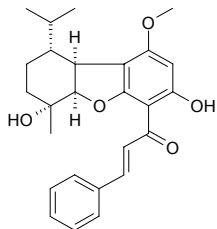
3701 5-Cinnamoyl-9,10-diacetyltaxicin I

C₃₃H₄₀O₉ (580.68). mp 185°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.



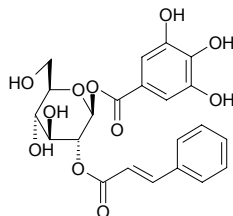
3702 (5*Ar*,6*R*,9*R*,9*Ar*)-4-Cinnamoyl-3,6-dihydroxy-1-methoxy-6-methyl-9-(1-methylethyl)-5a,6,7,8,9a-hexahydro-dibenzofuran

[166983-85-3] C₂₆H₃₀O₅ (422.52). Yellow solid, [α]_D = -22.7° (*c* = 0.86, chloroform). **Pharm:** Antineoplastic (inhibits melanin production). **Source:** DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*]. **Ref:** 1024.



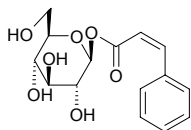
3703 2-O-Cinnamoyl-glucogallin

1-Galloyl-2-cinnamoyl-glucose C₂₂H₂₂O₁₁ (462.41). **Source:** DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. **Ref:** 2, 660.



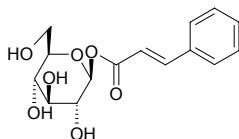
3704 1-O-cis-Cinnamoyl-β-D-glucopyranose

C₁₅H₁₈O₇ (310.31). **Source:** ZHEN ZHU XIU XIAN JU *Spiraea thunbergii*. **Ref:** 3782.



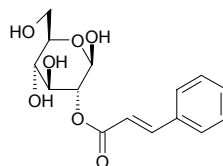
3705 1-O-trans-Cinnamoyl-β-D-glucopyranose

C₁₅H₁₈O₇ (310.31). **Source:** ZHEN ZHU XIU XIAN JU *Spiraea thunbergii*. **Ref:** 3782.



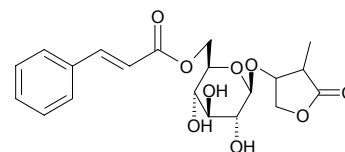
3706 2-Cinnamoyl-glucose

C₁₅H₁₈O₇ (310.31). **Source:** DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 660.



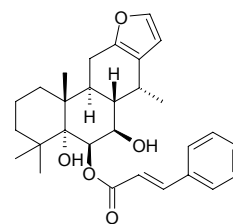
3707 6-O-(trans-Cinnamoyl)-1-O-(4''-hydroxy-3''-methylfuran-2''-one)-β-D-glucopyranose

C₂₀H₂₄O₉ (408.41). **Source:** ZHEN ZHU XIU XIAN JU *Spiraea thunbergii*. **Ref:** 3782.



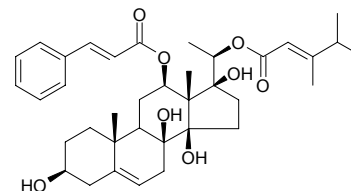
3708 6β-Cinnamoyl-7β-hydroxyvouacapen-5α-ol

C₂₉H₃₆O₅ (464.61). Colorless needles, mp 213~215°C (CHCl₃-MeOH), [α]_D³⁰ = +53.4 (*c* = 1.104, CHCl₃). **Pharm:** Antitubercular (*Mycobacterium tuberculosis* H37Ra, MIC = 6.25μg/mL, control Kanamycin sulfate, MIC = 2.5~5.0μg/mL)^[5435]; cytotoxic (KB cells, IC₅₀ = (3.2±0.4)μg/mL, control Ellipticine, IC₅₀ = (0.3±0.1)μg/mL; BC, IC₅₀ = (1.4±0.2)μg/mL, Ellipticine, IC₅₀ = (0.3±0.1)μg/mL; NCI-H187, IC₅₀ = (6.2±0.9)μg/mL)^[5435]. **Source:** JI MEI YUN SHI *Caesalpinia pulcherrima*. **Ref:** 5435.



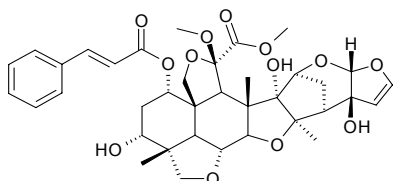
3709 12-O-Cinnamoyl-20-O-ikemaoyl sarcostin

C₃₇H₅₀O₈ (622.81). mp 158~163°C. **Source:** BAI SHOU WU *Cynanchum bungei*. **Ref:** 6.

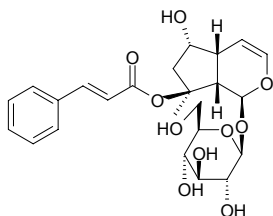


3710 1-Cinnamoyl-11-methoxymeliacarpinin

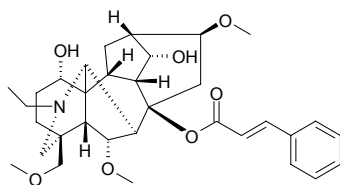
1-Cinnamoyl-3-hydroxy-11-methoxymeliacarpinin [177795-22-1] $C_{37}H_{44}O_{13}$ (696.75). Colorless powder, mp 124–126°C (chloroform), $[\alpha]_D = -2.39^\circ$ ($c = 0.2$, chloroform). **Pharm:** Cytotoxic (P_{388} , $IC_{50} = 1.5\mu\text{g/mL}$). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 1104.

**3711 8-Cinnamoylmyoporoside**

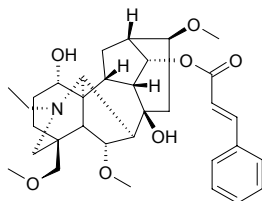
$C_{24}H_{30}O_{10}$ (478.50). **Source:** NAN FEI GOU MA *Harpagophytum procumbens*. **Ref:** 5458.

**3712 8-O-Cinnamoylneoline**

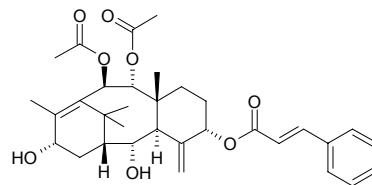
$C_{33}H_{45}NO_7$ (567.73). Amorphous powder, $[\alpha]_D^{20} = +24.0^\circ$ ($c = 0.98$, EtOH). **Pharm:** Analgesic (mouse, tail pressure test, = 0.86mg/kg, $LD_{50}/ED_{50} = 13.8$); acute toxicity (mouse, = 11.9mg/kg). **Source:** WU TOU *Aconitum carmichaeli* (buds). **Ref:** 5451.

**3713 14-O-Cinnamoylneoline**

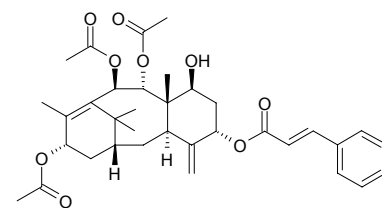
$C_{33}H_{45}NO_7$ (567.73). Amorphous powder (MeOH), $[\alpha]_D^{23} = +9.7^\circ$ ($c = 0.35$, $CHCl_3$). **Source:** FU ZI *Aconitum carmichaeli* (tuber). **Ref:** 4373.

**3714 5α-Cinnamoyloxy-2α,13α-dihydroxy-9α,10β-diacetoxy-4(20),11-taxadiene**

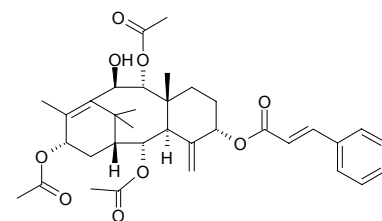
$C_{33}H_{42}O_8$ (566.70). mp 104–106°C, $[\alpha]_D = +4^\circ$ ($CHCl_3$). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**3715 5α-Cinnamoyloxy-7β-hydroxy-9α,10β,13α-triacetoxytaxa-4(20),11-diene**

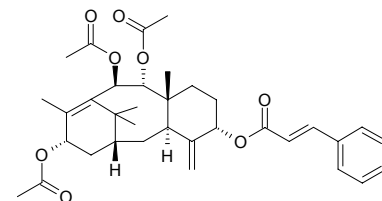
$C_{35}H_{44}O_9$ (608.74). $[\alpha]_D = +20^\circ$ ($CHCl_3$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 662.

**3716 5α-Cinnamoyloxy-10β-hydroxy-2α,9α,13α-triacetoxytaxa-4(20),11-diene**

$C_{35}H_{44}O_9$ (608.74). mp 110–112°C, $[\alpha]_D = +29.6^\circ$ ($CHCl_3$). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

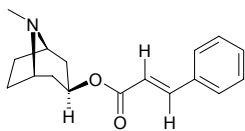
**3717 5α-Cinnamoyloxy-9α,10β,13α-triacetoxytaxa-4(20),11-diene**

$C_{35}H_{44}O_8$ (592.74). mp 165–166°C, mp 175–177°C, $[\alpha]_D = +118.5^\circ$ ($CHCl_3$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*, HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

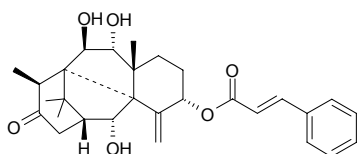


3718 trans-3 β -Cinnamoyloxytropane

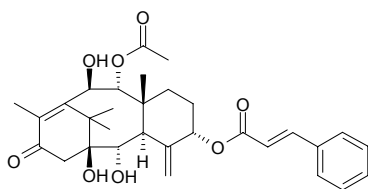
C₁₇H₂₁NO₂ (271.36). Source: XI LAN GU KE *Erythroxylum zeylanicum* (root). Ref: 3919.

**3719 5-Cinnamoylphototaxin II**

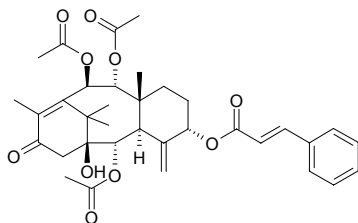
C₂₉H₃₆O₆ (480.61). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**3720 O-Cinnamoyltaxicin I**

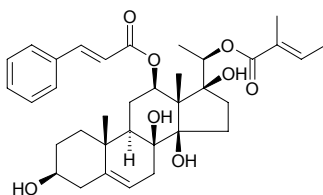
C₃₁H₃₈O₈ (496.61). mp 233–234°C, [α]_D = +285° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**3721 O-Cinnamoyltaxicin I triacetate**

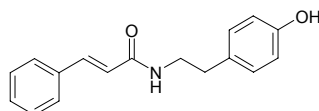
C₃₅H₄₂O₁₀ (622.72). mp 237–239°C, [α]_D = +218° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*, ZI SHAN *Taxus cuspidata*. Ref: 662.

**3722 12-O-Cinnamoyl-20-O-tigloyl sarcostin**

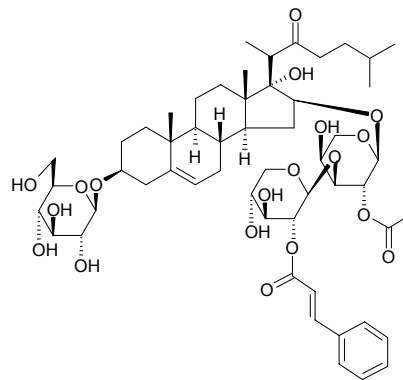
C₃₅H₄₆O₈ (594.75). Source: BAI SHOU WU *Cynanchum bungei*. Ref: 6.

**3723 N-trans-Cinnamoyltyramine**

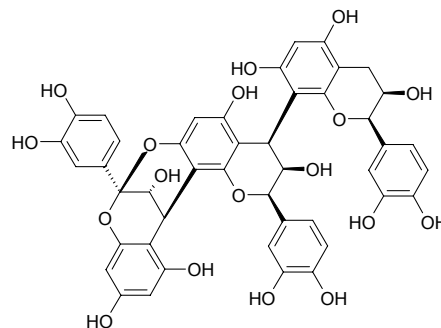
C₁₇H₁₇NO₂ (267.33). White powder. Pharm: Platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μ g/mL, add thrombin 0.1u/mL, AggRt = (91.1 \pm 0.4)%, control AggRt = (92.6 \pm 0.4)%; add AA, 100 μ mol/L, 100 μ g/mL, AggRt = (87.4 \pm 1.7)%, control AggRt = (87.8 \pm 0.3)%, Aspirin 50 μ g/mL, AggRt = (11.7 \pm 10.1)%; add collagen 10 μ g/mL, 100 μ g/mL, AggRt = (60.7 \pm 1.7)%, control AggRt = (89.3 \pm 0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3 \pm 0.5)%; add PAF 2ng/mL, 100 μ g/mL, AggRt = (91.4 \pm 0.2)%, control AggRt = (93.0 \pm 0.6%))^[4938]. Source: HONG SI XIAN *Lycianthes biflora*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw), RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN HU JIAO *Piper taiwanense* (stem). Ref: 2230, 3026, 4502, 4938.

**3724 16 β -[(O-(2-O-(E)-Cinnamoyl- β -D-xylopyranosyl)-(1 \rightarrow 2)-2-O-acetyl- α -L-arabinopyranosyl)oxy]-3 β -[(β -D-glucopyranosyl)oxy]-17 α -hydroxy cholest-5-en-22-one**

C₅₄H₇₈O₁₉ (1031.21). Amorphous solid, [α]_D²⁵ = -16.0° (c = 0.10, MeOH). Pharm: Cytotoxic (HL-60 cells, IC₅₀ = 0.00012 μ mol/L, control Etoposide, IC₅₀ = 0.025 μ mol/L). Source: XIA FENG XIN ZI *Galtonia candicans* (bulb). Ref: 4116.

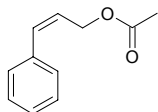
**3725 Cinnamtannin B₁**

C₄₅H₃₆O₁₈ (864.78). Pale yellow amorphous powder, [α]_D²¹ = +69.2° (c = 0.99, MeOH). Source: CHANG JIE ZHU *Parameria laevigata* (bark). Ref: 3523.

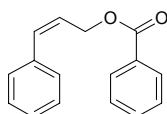


3726 Cinnamyl acetate

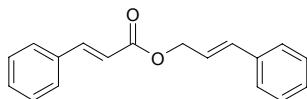
Phenylallyl acetate [103-54-8] $C_{11}H_{12}O_2$ (176.22). bp 141°C/18mmHg. Source: ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*]. Ref: 6.

**3727 Cinnamyl benzoate**

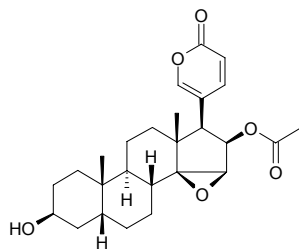
[5320-75-2] $C_{16}H_{14}O_2$ (238.29). bp 209°C/12mmHg. Source: YUE NAN AN XI XIANG *Styrax tonkinensis*. Ref: 6.

**3728 Cinnamyl cinnamate**

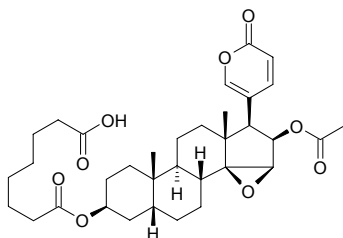
[122-69-0] $C_{18}H_{16}O_2$ (264.33). mp 44°C. Source: AN XI XIANG *Styrax benzoin*. Ref: 6.

**3729 Cinobufagin**

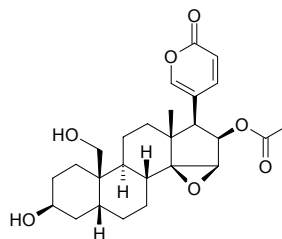
[470-37-1] $C_{26}H_{34}O_6$ (442.56). Pharm: Cytotoxic (*in vitro*, KB, IC_{50} = 0.21 μ g/mL; HL-60, IC_{50} < 0.01 μ g/mL; MH-60, IC_{50} > 25 μ g/mL)^[3082]; cardiotoxic; increases blood pressure; LD₅₀ (cat) = 0.23mg/kg. Source: CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus* (dried secretion: content = 7.2%^[5501]; content = 0.91%^[5508]). Ref: 2, 617, 658, 3082, 5501, 5508.

**3730 Cinobufagin-3-hydrogen suberate**

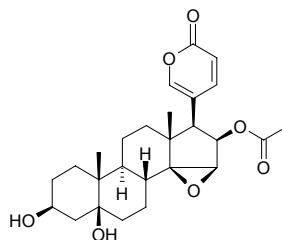
$C_{34}H_{46}O_9$ (598.74). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 6.

**3731 Cinobufaginol**

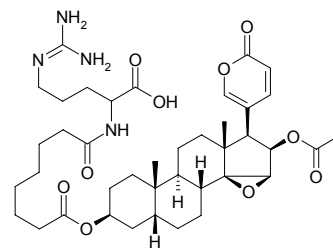
[6691-83-4] $C_{26}H_{34}O_7$ (458.56). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 6.

**3732 Cinobufotalin**

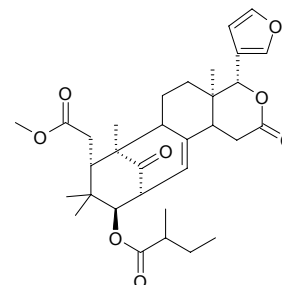
[1108-68-5] $C_{26}H_{34}O_7$ (458.56). Pharm: Cytotoxic (*in vitro*, KB, IC_{50} = 0.37 μ g/mL; HL-60, IC_{50} = 0.047 μ g/mL; MH-60, IC_{50} > 25 μ g/mL)^[3082]; cardiotoxic; increases blood pressure. Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 3082, 5501.

**3733 Cinobufotoxin**

[60113-07-7] $C_{40}H_{58}N_4O_{10}$ (754.93). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

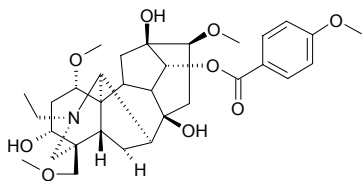
**3734 Cipadesin**

$C_{32}H_{42}O_8$ (554.69). Colorless acicular crystals (MeOH), mp 112~114°C, $[\alpha]_D^{26}$ = -145.4° (c = 0.17, $CHCl_3$). Source: YA LUO CHUN *Cipadessa baccifera*. Ref: 745.

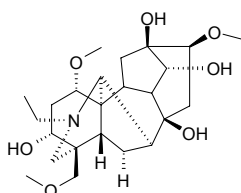


3735 Circinadine A

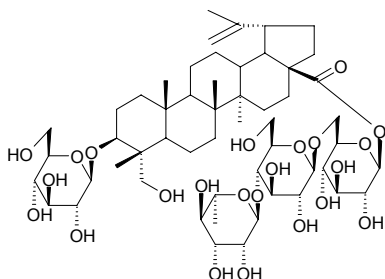
$C_{32}H_{45}NO_9$ (587.72). Amorphous powder, mp 102~103°C. Source: QUAN JU GUA YE WU TOU *Aconitum hemsleyanum* var. *circinacum* (root: yield = 0.0033%dw). Ref: 914.

**3736 Circinadine B**

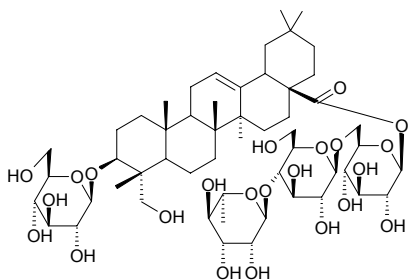
$C_{24}H_{39}NO_7$ (453.58). Amorphous powder, mp 92~93°C. Source: QUAN JU GUA YE WU TOU *Aconitum hemsleyanum* var. *circinacum* (root: yield = 0.0005%dw). Ref: 914.

**3737 Cirensenoside S**

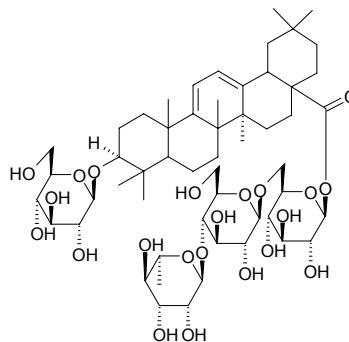
3-*O*- β -*D*-Glucopyranosyl 3 β ,23-dihydroxylup-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{54}H_{88}O_{23}$ (1105.29). White powder, mp 220~222°C, $[\alpha]_D^{20} = -23.5^\circ$ ($c = 0.5$, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus* (leaf). Ref: 4840.

**3738 Cirensenoside T**

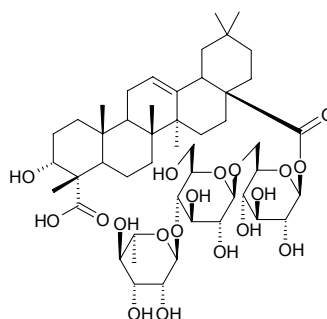
3-*O*- β -*D*-Glucopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{54}H_{88}O_{23}$ (1105.29). White powder, mp 240~242°C, $[\alpha]_D^{20} = +0.7^\circ$ ($c = 0.2$, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus* (leaf). Ref: 4840.

**3739 Cirensenoside U**

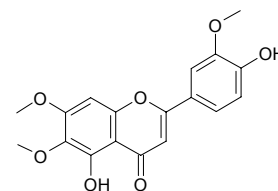
3-*O*- β -*D*-Glucopyranosyl 3 β -hydroxylean-9(11),12-dien-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{54}H_{86}O_{22}$ (1087.27). White powder, mp 224~226°C, $[\alpha]_D^{20} = +78.6^\circ$ ($c = 0.5$, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus* (leaf). Ref: 4840.

**3740 Cirensenoside V**

3 α -Hydroxyolean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{48}H_{76}O_{19}$ (957.13). White powder, mp 230~232°C, $[\alpha]_D^{20} = -5.5^\circ$ ($c = 0.5$, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus* (leaf). Ref: 4840.

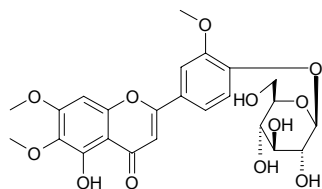
**3741 Cirsilineol**

5,4'-Dihydroxy-6,7,3'-trimethoxyflavone [41365-32-6] $C_{18}H_{16}O_7$ (344.32). Pharm: Antispasmodic. Source: HUANG HUA HAO *Artemisia annua*, RONG MAO DAN SHEN *Salvia tomentosa*, SHE XIANG CAO *Thymus vulgaris*, YIN CHEN HAO *Artemisia capillaris*, *Sideritis* sp. Ref: 2, 658, 660.

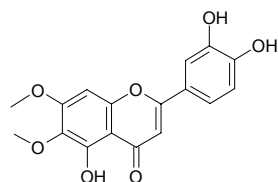


3742 Cirsilineol-4'-monoglucoside

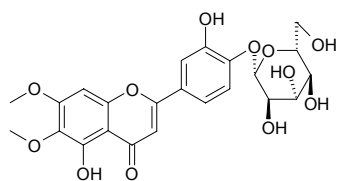
[41087-97-2] C₂₄H₂₆O₁₂ (506.47). mp 158–159°C. **Pharm:** Aldose reductase inhibitor (rat eye lens, 10µmol/L InRt = 42%, ox eye lens, 10µmol/L InRt = 59%). **Source:** KU AO *Cirsium chinense*. **Ref:** 6, 1771.

**3743 Cirsiliol**

[34334-69-5] C₁₇H₁₄O₇ (330.30). **Pharm:** Selective arachidonic acid 5-lipoxygenase inhibitor^[658]; anti-inflammatory (oral, inhibits mouse paw oedema induced by carrageenan)^[4415]; 5-LOX inhibitor (rat basophilic leukaemia cells and guinea pig peritoneal polymorphonuclear leukocytes, IC₅₀ = 0.1µmol/L)^[4415]. **Source:** HUANG HUA HAO *Artemisia annua*, TIAO YE JI *Cirsium lineare*, YAO YONG DAN SHEN *Salvia officinalis*, JI XIANG SHI CAO *Achillea fragrantissima*. **Ref:** 2, 658, 660, 4415.

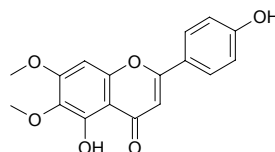
**3744 Cirsiliol-4'-monoglucoside**

[41087-98-3] C₂₃H₂₄O₁₂ (492.44). mp 215–217°C. **Pharm:** Aldose reductase inhibitor (rat eye lens, 10µmol/L InRt = 53%, 1µmol/L InRt = 25%; ox eye lens, 10µmol/L InRt = 61%, 1µmol/L InRt = 24%). **Source:** KU AO *Cirsium chinense*. **Ref:** 6, 1771.

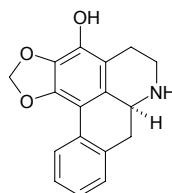
**3745 Cirsimaritin**

[6601-62-3] C₁₇H₁₄O₆ (314.30). **Pharm:** Antibacterial (gram-positive and gram-negative bacteria); antispasmodic (gpg, ileal spasm caused by histamine, barium chloride and acetylcholine); cAMP phosphodiesterase inhibitor (IC₅₀ = 118µmol/L); aldose reductase inhibitor; cytotoxic (HeLa *in vitro*, IC₅₀ = 3.2µg/mL, EAC *in vitro*, IC₅₀ = 0.54µg/mL); antineoplastic (mus, myelocytic leukemia M1, inducing cell differentiation activity, 50µmol/L growth rate = 28%, phago-activity >10%); binding activity to benzodiazepine receptor (IC₅₀ = (350±37)µmol/L, control Diazepam, IC₅₀ = (0.05±0.01)µmol/L)^[5366]; antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value =

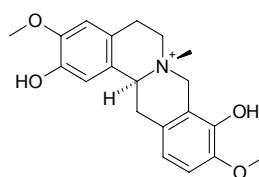
14.3%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%)^[4508]. **Source:** HUANG HUA HAO *Artemisia annua*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], TIAN SHE CAO *Lippia dulcis* (aerial parts), YIN CHEN HAO *Artemisia capillaris*, YAO YONG DAN SHEN YE *Salvia officinalis*. **Ref:** 2, 660, 1652, 1739, 1740, 1741, 1742, 4508, 5366.

**3746 (-)-Cissaglaberrimine**

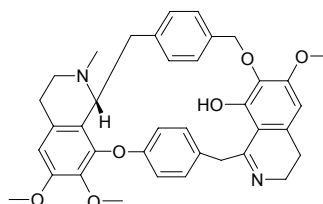
C₁₇H₁₅NO₃ (281.31). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (stem and leaf). **Ref:** 3083.

**3747 Cissamine**

(*S*)-*trans*-Cyclanoline [63527-13-9] C₂₀H₂₄NO₄⁺ (342.42). Iodide: crystals, mp 242–243°C (dec), [α]_D²⁴ = -95.2° (c = 0.7, CHCl₃). **Pharm:** striated muscle relaxant (rat, sciatic nerve-gastrocnemius specimen, action intensity = 1/20 that of Asiatic Moonseed, used as muscle relaxant in surgical operation). **Source:** FANG JI *Stephania tetrandra* (root: content scope = 0.32%–0.54%)^[5501], HAI NAN QING NIU DAN *Tinospora hainanensis*, XI SHENG TENG *Cissampelos pareira*, ZHU SHA LIAN *Aristolochia kaempferi*. **Ref:** 2, 4, 6, 687, 5501.

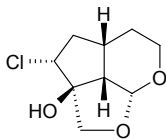
**3748 Cissampareine**

Methylwarifteine [32728-54-4] C₃₇H₃₈N₂O₆ (606.73). mp 239–240°C (dec). **Pharm:** Cytotoxic (KB, ED₅₀ = 1.1–3.8µg/mL). **Source:** XI SHENG TENG *Cissampelos pareira*. **Ref:** 5, 6, 658.

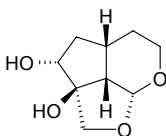


3749 Cistachlorin

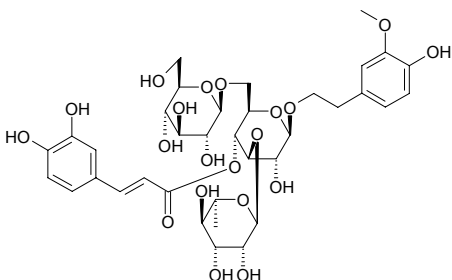
[91431-88-8] C₉H₁₃ClO₃ (204.66). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 628.

**3750 Cistanin**

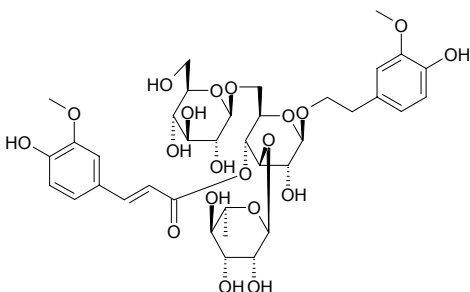
[91431-89-9] C₉H₁₄O₄ (186.21). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 628.

**3751 Cistanoside A**

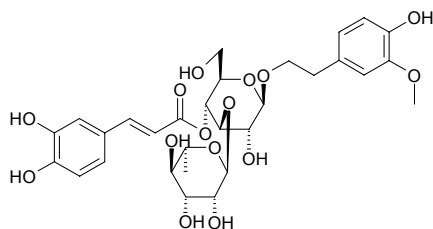
[93236-42-1] C₃₆H₄₈O₂₀ (800.77). Pharm: Anti-stress (stress mus, protection to avoid sexual immaturity and learning disability). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 2, 628, 1199.

**3752 Cistanoside B**

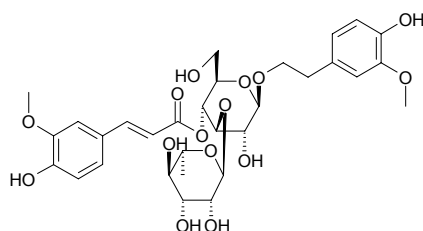
[93236-4-0] C₃₇H₅₀O₂₀ (814.80). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 628.

**3753 Cistanoside C**

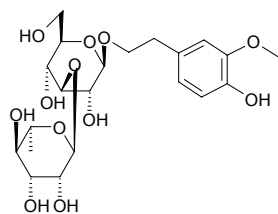
[94492-22-5] C₃₀H₃₈O₁₅ (638.63). Amorphous powder, [α]_D¹⁹ = -88.4° (c = 0.86, methanol). Pharm: Used in treatment of sexual immaturity and learning disability (mus, orl, 10mg/kg). Source: ROU CONG RONG *Cistanche deserticola*, YAN SHENG ROU CONG RONG *Cistanche salsa*. Ref: 628, 960, 1032, 1199.

**3754 Cistanoside D**

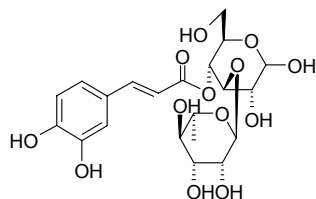
[94492-21-4] C₃₁H₄₀O₁₅ (652.66). Amorphous powder, [α]_D²⁰ = -71.0° (c = 1.0, methanol). Pharm: Antineoplastic (SMMC-7721, IC₅₀ = (267.8±12.6)μg/mL, L342, IC₅₀ = (289.4±14.6)μg/mL, MGc803, IC₅₀ = (256.7±11.2)μg/mL); antioxidant (microsome, 32.5μmol/L, InRt of lipid peroxidation = 12.9%, InRt of producing superoxide anion = 27.8%). Source: ROU CONG RONG *Cistanche deserticola*, YAN SHENG ROU CONG RONG *Cistanche salsa*. Ref: 628, 900.

**3755 Cistanoside E**

[97400-08-3] C₂₁H₃₂O₁₂ (476.48). Amorphous powder, [α]_D²⁵ = -51.5° (c = 0.7, methanol). Pharm: Sympatholytic (mus, inhibits stress reaction). Source: ROU CONG RONG *Cistanche deserticola*, YAN SHENG ROU CONG RONG *Cistanche salsa*. Ref: 628, 959, 1033.

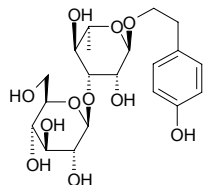
**3756 Cistanoside F**

C₂₁H₂₈O₁₃ (488.45). Pharm: Immunosuppressant (mus, 100mg/kg orl, inhibits formation of hemolytic patch formative cell HPFC in spleen, InRt = 15.2%); antioxidant (mitochondria, lipid peroxidation inhibitor, reduces glutathione). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 2, 1785, 1786.

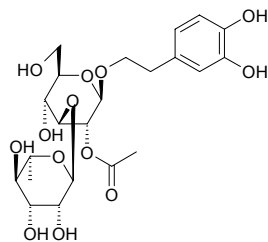


3757 Cistanoside G

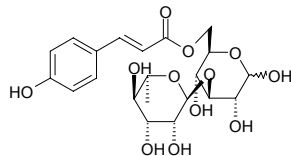
[105214-52-6] C₂₀H₃₀O₁₁ (446.46). Amorphous powder, $[\alpha]_D^{19} = -62.9^\circ$ ($c = 1.59$, methanol). **Pharm:** Sympatholytic (mus, inhibits stress reaction). **Source:** ROU CONG RONG *Cistanche deserticola*, YAN SHENG ROU CONG RONG *Cistanche salsa*. **Ref:** 628, 1195.

**3758 Cistanoside H**

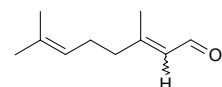
[104806-92-0] C₂₂H₃₂O₁₃ (504.49). Amorphous powder, $[\alpha]_D^{18} = -58.9^\circ$ ($c = 1.6$, methanol). **Pharm:** Sympatholytic (mus, inhibits stress reaction). **Source:** ROU CONG RONG *Cistanche deserticola*, YAN SHENG ROU CONG RONG *Cistanche salsa*. **Ref:** 1032, 1194.

**3759 Cistanoside I**

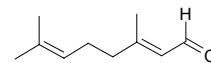
C₂₁H₂₈O₁₂ (472.45). **Source:** ROU CONG RONG *Cistanche deserticola*. **Ref:** 2448.

**3760 Citral**

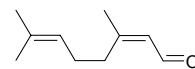
[5392-40-5] C₁₀H₁₆O (152.24). **Pharm:** Antitoxin (anti-aflatoxin); antifungal; anthelmintic; antiseptic; raw material for synthesis of ionone and vitamin A. **Source:** DA SUAN *Allium sativum*, GAN JIANG *Zingiber officinale*, HU LUO BO *Daucus carota* var. *sativa*, HUI HAO *Seriphidium cinum* [Syn. *Artemisia cina*], HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JU YUAN *Citrus medica*, LI MENG *Citrus limonia*, NING MENG *Citrus limon*, SAN YE MA BIAN CAO *Verbena triphylla* [Syn. *Lippia citriodora*], SHENG JIANG *Zingiber officinale*, TIAN CHENG *Citrus sinensis*, WAN YAN XIANG MAO *Cymbopogon flexuosus*, WU WEI ZI *Schisandra chinensis*, XIANG MAO *Cymbopogon citratus*, XIANG PI MU *Alstonia scholaris*, XIANG QING LAN *Dracocephalum moldavicum*, XIN YI *Magnolia liliflora*, XING REN *Prunus armeniaca*. **Ref:** 2, 658, 660.

**3761 (E)-Citral**

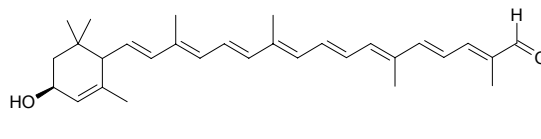
Geranial [141-27-5] C₁₀H₁₆O (152.24). bp 226~228°C. **Pharm:** Anti-ischemia myocardial (rbt, enhances blood flow through coronary arteries, ischemia myocardial induced by hypophysin; mouse, reduces oxygen consumption in cardiac muscle; isolated pig heart, relaxes normal coronary arteries and coronary arteries contracted by adrenaline); antiseptic (stronger than phenol); antifungal; insecticidal; antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 3.1 μmol/L, control Gentian violet, MLC = 6.2 μmol/L)^[2579]. **Source:** BI CHENG QIE *Piper cubeba* (fruit: content scope = 1.14%~1.51%)^[5501], CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], GAN JIANG *Zingiber officinale*, CHENG ZI *Citrus junos*, CHENG ZI PI *Citrus junos*, LIAN QIAO *Forsythia suspensa*, SHENG JIANG *Zingiber officinale*, XING ZI *Prunus armeniaca*, YI LANG QING LAN *Dracocephalum kotschyi*, YUN XIANG CAO *Cymbopogon distans*. **Ref:** 2, 6, 2579, 5501.

**3762 (Z)-Citral**

Neral [106-26-3] C₁₀H₁₆O (152.24). bp 103°C/12mmHg. **Pharm:** Anti-ischemia myocardial (rbt, enhances blood flow through coronary arteries, ischemia myocardial induced by hypophysin; mouse, reduces oxygen consumption in cardiac muscle; isolated pig heart, relaxes normal coronary arteries and coronary arteries contracted by adrenaline); antiseptic (stronger than phenol); antifungal; insecticidal; antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 3.1 μmol/L, control Gentian violet, MLC = 6.2 μmol/L)^[2579]. **Source:** BI CHENG QIE *Piper cubeba* (fruit: content scope = 0.77%~1.02%)^[5501], GAN JIANG *Zingiber officinale*, JU PI *Citrus reticulata*, SHENG JIANG *Zingiber officinale*, YI LANG QING LAN *Dracocephalum kotschyi*. **Ref:** 2, 2579, 5501.

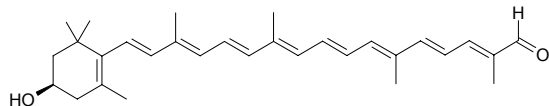
**3763 α-Citraurin**

C₃₀H₄₀O₂ (432.65). mp 153°C. **Source:** DAI DAI HUA *Citrus aurantium* var. *amara*. **Ref:** 6.

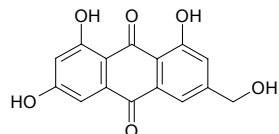


3764 β -Citraurin

[650-69-1] C₃₀H₄₀O₂ (432.65). mp 146~147°C. Source: DAI DAI HUA *Citrus aurantium* var. *amara*. Ref: 6.

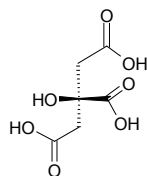
**3765 Citreoreosin**

ω -Hydroxyemodin [481-73-2] C₁₅H₁₀O₆ (286.24). Source: HU ZHANG *Polygonum cuspidatum*, MI HOU TAO *Actinidia chinensis*. Ref: 2, 660.

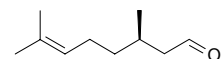
**3766 Citric acid**

2-Hydroxy-1,2,3-propanetricarboxylic acid [77-92-9] C₆H₈O₇ (192.13).

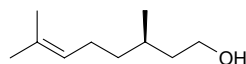
Pharm: Flavorant. Source: BAI BU *Stemona tuberosa*, CU LIU GUO *Hippophae rhamnoides*, HU ZHANG YE *Polygonum cuspidatum*, JU YUAN *Citrus medica*, KUAN YE XIANG PU *Typha latifolia*, MU ZEI MA HUANG *Ephedra equisetina*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN LI HONG *Crataegus pinnatifida* var. *major*, SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: mean content of 2 origins = 1.88%^[5508]), TIAN MA *Gastrodia elata*, WU MEI *Prunus mume* (closing-ripe fruit: content = 54.72%^[5508]), YE SHAN ZHA *Crataegus cuneata*, YI ZHU QIAN MA *Urtica dioica*, YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: mean content of 2 origins = 0.86%^[5508]). Ref: 2, 658, 660, 5508.

**3767 Citronellal**

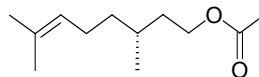
3,7-Dimethyl-6-octen-1-al [106-23-0] C₁₀H₁₈O (154.25). Pharm: Antibacterial (*Staphylococcus aureus* and *Bacillus typhia*); antifungal; anthelmintic; Flavorant. Source: CHENG QIE ZI *Litsea cubeba*, FU SHE SONG *Pinus radiata*, JING XIANG MAO *Cymbopogon nardus*, JU PI *Citrus reticulata*, KONG SHI CHUN *Uva pertusa*, LI MENG *Citrus limonia*, MI HUA XIANG MAO *Cymbopogon densiflorus*, NING MENG *Citrus limon*, NING MENG AN YE *Eucalyptus citriodora*, SHI LA HONG *Pelargonium hortorum*, WEN TE XIANG MAO *Cymbopogon winterianus*, XIANG FENG HUA *Melissa officinalis*, XIANG MAO *Cymbopogon citratus*. Ref: 2, 658.

**3768 Citronellol**

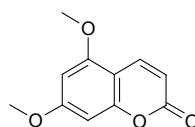
2,3-Dihydrogeraniol [106-22-9] C₁₀H₂₀O (156.27). bp 222°C. Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus typhosus*); Flavorant. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], DAI DAI HUA *Citrus aurantium* var. *amara*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*, SHI LA HONG *Pelargonium hortorum*, DU SONG SHI *Juniperus rigida*, MEI GUI HUA *Rosa rugosa* (oil: content = 44.46%^[5501]), NING MENG AN YE *Eucalyptus citriodora*, HU LUO BO *Daucus carota* var. *sativa*, XIANG YE *Pelargonium graveolens*, JIN YIN HUA *Lonicera japonica*, JU PI *Citrus reticulata*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*. Ref: 6, 11, 658, 5501.

**3769 Citronellyl acetate**

3,7-Dimethyl-6-octen-1-yl acetate [150-84-5] C₁₂H₂₂O₂ (198.31). Source: SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*. Ref: 2.

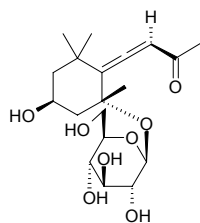
**3770 Citropten**

Limettin; 5,7-Dimethoxycoumarin [487-06-9] C₁₁H₁₀O₄ (206.20). Acicular crystals (methanol), mp 147~148°C. Pharm: Antihistamine (anesthetic cat, pulmonary overflow test, iv 5~10mg/kg; against gpg isolated trachea contraction induced by histamine)^[5501]; antihypertensive (anesthetic dog, iv 10mg/kg, blood pressure being reduced by (53.5±15)% , action lasts 20min)^[5501]; LD₅₀ (mouse, orl) = 3.95g/kg^[5501]. Source: BO LI ZI HUA *Jiao Zanthoxylum belizense*, FO SHOU *Citrus medica* var. *sarcodactylis* (fruit: content = 0.007%^[5501]), NING MENG *Citrus limon*, JU YUAN YE *Citrus medica*, JU YUAN *Citrus medica*, XIANG YUAN *Citrus wilsonii*. Ref: 5, 6, 660, 661, 5501.

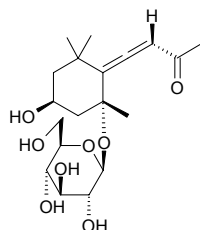


3771 Citroside A

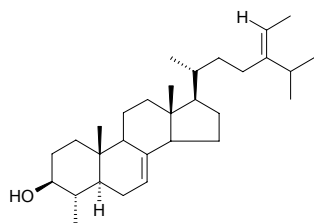
$C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{23} = -117^\circ$. Source: HU SUI ZI *Coriandrum sativum*, JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts), PI PA YE *Eriobotrya japonica* (stem and leaf). Ref: 3061, 4302, 4461.

**3772 Citroside B**

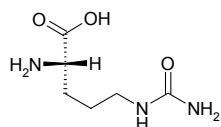
$C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{23} = -51^\circ$. Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**3773 Citrostadienol**

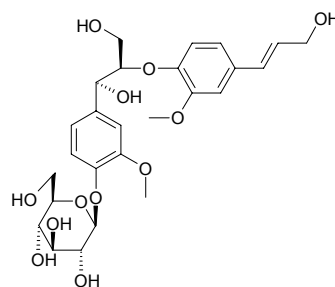
[474-40-8] $C_{30}H_{50}O$ (426.73). mp 162–164°C. Source: GOU QI ZI *Lycium chinense*, MAN TUO LUO ZI *Datura metel*, SHUI LONG GU *Polypodium niponicum*. Ref: 6, 660.

**3774 Citrulline**

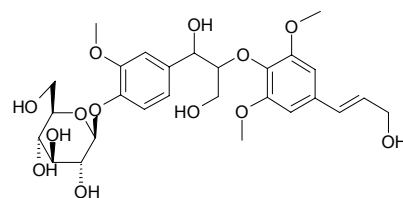
2-Amino-5-ureidovaleric acid [372-75-8] $C_6H_{13}N_3O_3$ (175.19). mp 222°C. Pharm: Antitoxin. Source: DONG GUA ZI *Benincasa hispida*, HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)], HU TAO REN *Juglans regia*, KU GUA *Momordica charantia*, MO GU *Agaricus campestris*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], MU XU *Medicago sativa*, NAN GUA *Cucurbita moschata*, SHI ZI *Diospyros kaki*, SI GUA *Luffa cylindrica*, TIAN HUA FEN *Trichosanthes kirilowii*, XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*]. Ref: 2, 6, 658, 660.

**3775 Citrusin A**

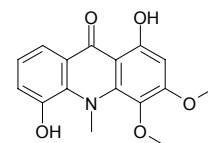
$C_{26}H_{34}O_{12}$ (538.55). Pharm: Antioxidant (DPPH scavenger, $EC_{50} > 50\mu\text{g/mL}$, $50\mu\text{g/mL}$ InRt = 23%, control Ascorbic acid, $EC_{50} = 1.6\mu\text{g/mL} = 9.1\mu\text{mol/L}$). Source: BEI SHA SHEN *Glehnia littoralis* (underground part). Ref: 4154.

**3776 Citrusin B**

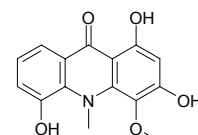
[105279-10-5] $C_{27}H_{36}O_{13}$ (568.58). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**3777 Citrusinine I**

$C_{16}H_{15}NO_5$ (301.3). Pharm: Cytotoxic (*in vitro*, Colon205, $ED_{50} = 6.3\mu\text{g/mL}$; hep-3B, $ED_{50} = 6.6\mu\text{g/mL}$; KB, $ED_{50} = 0.09\mu\text{g/mL}$). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

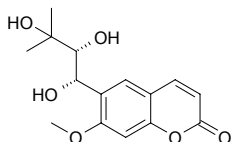
**3778 Citrusinine II**

$C_{15}H_{13}NO_5$ (287.27). Pharm: Cytotoxic (*in vitro*, Colon205, $ED_{50} > 25\mu\text{g/mL}$, inactive; hep-3B, $ED_{50} > 25\mu\text{g/mL}$, inactive; KB, $ED_{50} = 0.82\mu\text{g/mL}$). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

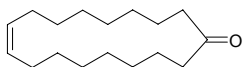


3779 Citrusol

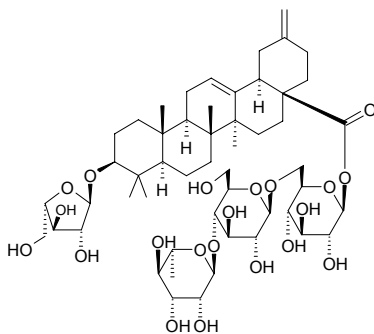
$C_{15}H_{18}O_6$ (294.31). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500(mol ratio/32 pmol TPA): EBV-EA-positive cells = (15.3±1.5)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC_{50} = 180(mol ratio/32 pmol TPA), β -Carotene, IC_{50} = 400(mol ratio/32 pmol TPA), Curcumin, IC_{50} = 341(mol ratio/32 pmol TPA)). **Source:** PU TAO YOU DA HONG JU ZA JIAO ZHONG *Citrus paradisi* x *Citrus tangerina*. **Ref:** 5048.

**3780 Civetone**

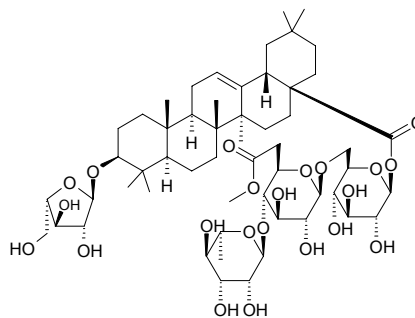
cis-Civetone [542-46-1] $C_{17}H_{30}O$ (250.43). mp 32.5°C, bp 342°C/742mmHg. **Source:** LING MAO XIANG *Viverra zibetha*. **Ref:** 6.

**3781 Ciwujianoside C₁**

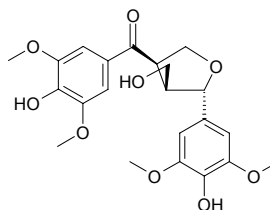
Yemuoside YM14 [114906-73-9] $C_{52}H_{82}O_{21}$ (1043.21). White powder, $[\alpha]_D^{18} = +14.6^\circ$ ($c = 1.03$, methanol). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneum giant cells, caused by anti-Ig-E). **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 945, 1026.

**3782 Ciwujianoside D₁**

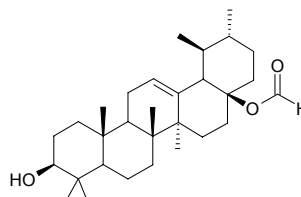
[114912-35-5] $C_{55}H_{88}O_{22}$ (1101.29). White powder, $[\alpha]_D^{18} = -9.8^\circ$ ($c = 0.41$, methanol). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneum giant cells, caused by anti-Ig-E). **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 945, 1026.

**3783 Ciwujiatone**

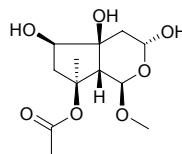
$C_{22}H_{26}O_9$ (434.45). White acicular crystals, mp 112~114°C. **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 671.

**3784 Cladocalol**

17 β -Formyloxy-28-nor-urs-12-en-3 β -ol $C_{30}H_{48}O_3$ (456.72). Amorphous solid, $[\alpha]_D^{20} = +58^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Cytotoxic (HL-60 cells, $IC_{50} = (42\pm 4)\mu\text{mol/L}$). **Source:** ZHI ZHUANG E AN *Eucalyptus cladocalyx* (leaf). **Ref:** 5259.

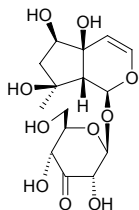
**3785 Clandonensine**

1- β -Methoxy-3,4-dihydro-3 α -hydroxy-8-*O*-acetylharpagide aglucone $C_{12}H_{20}O_7$ (276.29). White amorphous powder. **Source:** ZA JIAO YOU⁽²⁾ *Caryopteris clandonensis*. **Ref:** 3988.

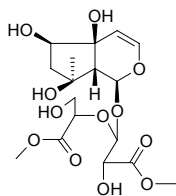


3786 Clandonoside

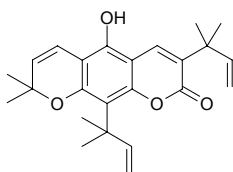
Harpagide-aglucone-1-*O*- β -D-ribohexo-3-uloipyranoside [239467-35-7]
 $C_{15}H_{22}O_{10}$ (362.34). White amorphous powder. Source: ZA JIAO YOU⁽²⁾
Caryopteris clandonensis. Ref: 2312.

**3787 Clandonoside II**

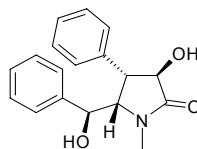
Harpagide-aglucone-1-*O*-3',4'-seco-glycopyranoside $C_{17}H_{26}O_{12}$ (422.39).
 White amorphous powder. Source: ZA JIAO YOU⁽²⁾ *Caryopteris*
clandonensis. Ref: 3988.

**3788 Clausarin**

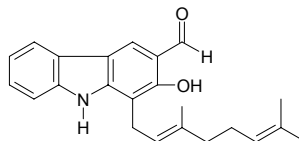
3,10-Bis(1,1-dimethyl-2-propenyl)-5-hydroxy-8,8-dimethyl-2*H*,8*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-2-one [62770-67-6] $C_{24}H_{28}O_4$ (380.49). Pharm:
 Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced
 EBV-EA activation, compound concentration = 500(mol ratio/32 pmol
 TPA), EBV-EA-positive cells = (41.9 \pm 1.5)% (viability > 80%), β -Carotene,
 EBV-EA-positive cells = (34.3 \pm 1.1)% (viability > 80), Curcumin,
 EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%); IC_{50} = 343(mol
 ratio/32 pmol TPA), β -Carotene, IC_{50} = 400(mol ratio/32 pmol TPA),
 Curcumin, IC_{50} = 341(mol ratio/32 pmol TPA)^[5048]. Source: SHAN
 HUANG PI *Clausena excavata*, CHENG ZI *Citrus junos*, *Citrus medica* var.
etrog, *Citrus jambhiri*, *Citrus tamurana*. Ref: 703, 5048.

**3789 Clausenamide**

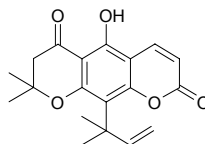
[103541-15-7] $C_{18}H_{19}NO_3$ (297.36). White acicular crystals (methanol), mp
 239–240°C. Source: HUANG PI YE *Clausena lansium*. Ref: 72.

**3790 Clausenatine A**

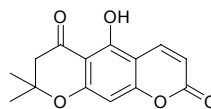
Mukoeneine B $C_{23}H_{25}NO_2$ (347.46). Yellowish powder, mp >280°C (acetone).
Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3791 Clausenidin**

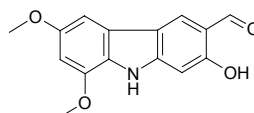
[28384-44-3] $C_{19}H_{20}O_5$ (328.37). mp 135–136°C. Pharm: Antibacterial
 (*Mycobacterium tuberculosis*, MIC = 200 μ g/mL, control Isoniazide, MIC =
 0.040–0.090 μ g/mL, kanamycin sulfate, MIC = 2.0–5.0 μ g/mL)^[5367]; antifungal
 inactive (*Candida albicans*, control Amphotericin, IC_{50} = 0.01 μ g/mL)^[5367].
Source: SHAN HUANG PI *Clausena excavata*. Ref: 6, 5367.

**3792 Clausenin**

[17276-27-6] $C_{14}H_{12}O_5$ (260.25). mp 156–157°C. Source: SHAN HUANG PI
Clausena excavata. Ref: 1521.

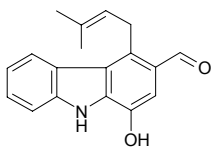
**3793 Clausine B**

[182261-81-0] $C_{15}H_{13}NO_4$ (271.28). mp 228–229°C. Pharm: Platelet
 aggregation inhibitor (rbt, 100 μ g/mL, due to arachidonic acid, InRt = 23%,
 due to collagen, InRt = 16%, due to PAF, InRt = 19%). Source: SHAN
 HUANG PI *Clausena excavata*. Ref: 703.

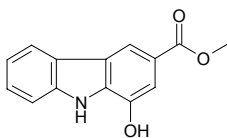


3794 Clausine D

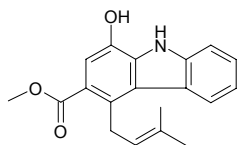
1-Hydroxy-4-(3-methyl-2-butenyl)-9H-carbazole-3-carboxaldehyde
[142846-95-5] C₁₈H₁₇NO₂ (279.34). **Pharm:** Platelet aggregation inhibitor (rbt, due to arachidonic acid, 1μg/mL, InRt = 53%, IC₅₀ = 9.0μmol/L, due to collagen, 10μg/mL InRt = 66%, IC₅₀ = 58.9μmol/L); inhibits formation of thromboxane A₂; antispasmodic (rat, inhibits aortal contraction induced by KCl+CaCl₂, InRt = 21.5%). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703, 1650, 1651.

**3795 Clausine E**

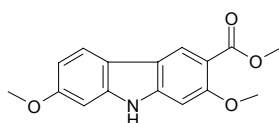
Clauszoline I [182261-83-2] C₁₄H₁₁NO₃ (241.25). mp 218~220°C. **Pharm:** Platelet aggregation inhibitor (rbt, 100μg/mL, due to arachidonic acid, InRt = 90%, due to collagen, InRt = 92%, due to PAF, InRt = 60%); vascular relaxant (rat, aorta, contraction by KCl+CaCl₂, InRt = 87.0%, due to 3μmol/L arterenol, InRt for step-by-step contraction = 58.3%, InRt for tonic contraction = 89.3%). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703.

**3796 Clausine F**

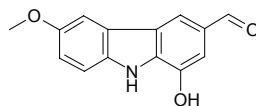
[142846-96-6] C₁₉H₁₉NO₃ (309.37). **Pharm:** Platelet aggregation inhibitor (rbt, due to arachidonic acid, 1μg/mL, InRt = 37%, due to collagen, 1μg/mL InRt = 48%). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703, 1650.

**3797 Clausine H**

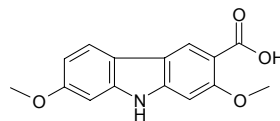
Clauszoline C [182261-90-1] C₁₆H₁₅NO₄ (285.31). mp 192~194°C. **Pharm:** Platelet aggregation inhibitor (rbt, 100μg/mL, due to arachidonic acid, InRt = 100%, due to collagen, InRt = 100%, due to PAF, InRt = 100%). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703.

**3798 Clausine I**

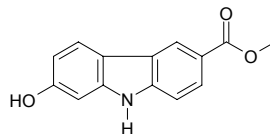
C₁₄H₁₁NO₃ (241.25). mp 222~224°C. **Pharm:** Platelet aggregation inhibitor (rbt, 100μg/mL, due to arachidonic acid, InRt = 94%, due to collagen, InRt = 87%, due to PAF, InRt = 17%). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703.

**3799 Clausine K**

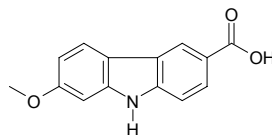
Clauszoline J [182261-96-7] C₁₅H₁₃NO₄ (271.28). mp 250~256°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, MIC = 100μg/mL, control Isoniazide, MIC = 0.040~0.090μg/mL, kanamycin sulfate, MIC = 2.0~5.0μg/mL)^[5367]; antifungal inactive (*Candida albicans*, control Amphotericin, IC₅₀ = 0.01μg/mL)^[5367]. **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703, 5367.

**3800 Clausine M**

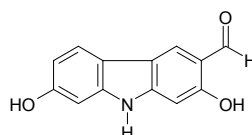
C₁₄H₁₁NO₃ (241.25). Yellowish needles, mp 200~203°C (EtOAc). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 2368.

**3801 Clausine N**

C₁₄H₁₁NO₃ (241.25). Yellowish powder, mp 215~218°C (acetone). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 2368.

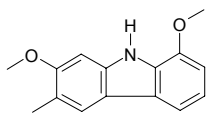
**3802 Clausine O**

C₁₃H₉NO₃ (227.22). Yellowish needles, mp > 280°C (acetone). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 2368.

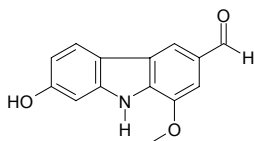


3803 Clausine P

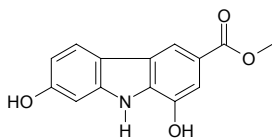
$C_{15}H_{15}NO_2$ (241.29). Yellow oil. Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3804 Clausine Q**

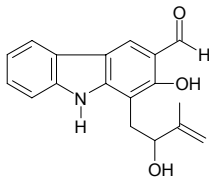
$C_{14}H_{11}NO_3$ (241.25). Brown powder, mp 85–87°C (acetone). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3805 Clausine R**

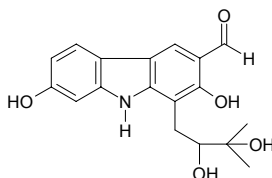
$C_{14}H_{11}NO_4$ (257.25). Yellowish needles, mp 178–181°C (acetone). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3806 Clausine S**

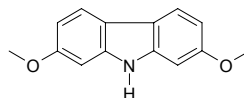
$C_{18}H_{17}NO_3$ (295.34). Yellowish oil, $[\alpha]_D = +159.09^\circ$ ($c = 0.0022$, MeOH). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3807 Clausine U**

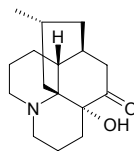
$C_{18}H_{19}NO_5$ (329.36). Yellowish powder, mp 255–257°C (acetone), $[\alpha]_D = -159.09^\circ$ ($c = 0.0151$, MeOH). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3808 Clausine V**

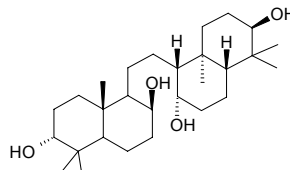
$C_{14}H_{13}NO_2$ (227.27). Colorless powder, mp 228–230°C (acetone). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2368.

**3809 Clavatine**

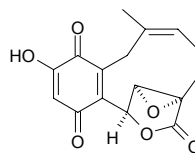
$C_{16}H_{25}NO_2$ (263.38). mp 212–213°C. Pharm: Antipyretic (rht, sc, fever caused by hay-infusion). Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6, 658.

**3810 Clavatul**

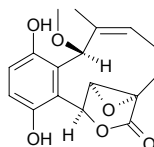
Lyclavatul; 26,27-Dinor-3,8,14,21-onoceranetetrol [33044-79-0] $C_{28}H_{50}O_4$ (450.71). mp 277–279°C. Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6.

**3811 Clavilactone D**

$C_{16}H_{14}O_6$ (302.29). Red powder, mp 172–175°C, $[\alpha]_D = +376^\circ$ ($c = 0.05$, MeOH). Pharm: Tyrosine kinase inhibitor (EGFR autophosphorylation assay, A431 cell membranes, $IC_{50} = 5\mu\text{mol/L}$). Source: BANG BING BEI SAN *Clitocybe clavipes*. Ref: 3940.

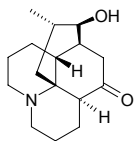
**3812 Clavilactone E**

$C_{17}H_{18}O_6$ (318.33). Yellow powder, mp 150–152°C, $[\alpha]_D = +90^\circ$ ($c = 0.1$, MeOH). Source: BANG BING BEI SAN *Clitocybe clavipes*. Ref: 3940.

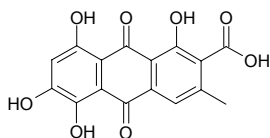


3813 Clavolonine

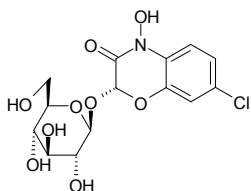
[466-62-6] $C_{16}H_{25}NO_2$ (263.38). mp 238°C; $[\alpha]_D^{25} = -11^\circ$ (MeOH). Source: DONG BEI SHI SHAN *Huperzia miyoshiana*, SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6, 5412.

**3814 Clavorubin**

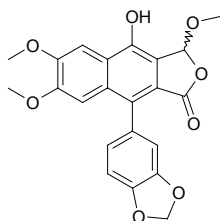
[2960-94-3] $C_{16}H_{10}O_8$ (330.25). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**3815 7-Cl-DIBOA-Glc**

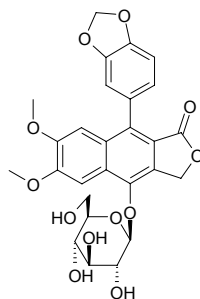
7-Chloro-(2*R*)-2-*O*-β-*D*-glucopyranosyl-4-hydroxy-2*H*-1,4-benzoxazin-3(4*H*)-one $C_{14}H_{16}ClNO_9$ (377.74). Amorphous powder, $[\alpha]_D^{22} = +18.6^\circ$ ($c = 0.86$, DMSO). Source: XIAO HUA LAO SHU LE *Acanthus ebracteatus* (aerial parts). Ref: 5211.

**3816 Cleistanone**

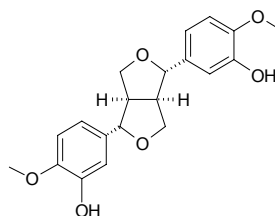
$C_{22}H_{18}O_8$ (410.38). Pale yellow crystals, mp 217~218°C (MeOH), $[\alpha]_D^{25} = +4^\circ$ ($c = 1.5$, MeOH). Pharm: Cytotoxic (MT2 cell line, anti-proliferative activity using MTT colorimetric assay, $LD_{50} = 38.1 \mu\text{mol/L}$, control Etoposide, $LD_{50} = 22.1 \mu\text{mol/L}$). Source: QIU SHENG BI HUA MU *Cleistanthus collinus* (aerial parts). Ref: 4399.

**3817 Cleistanthin B**

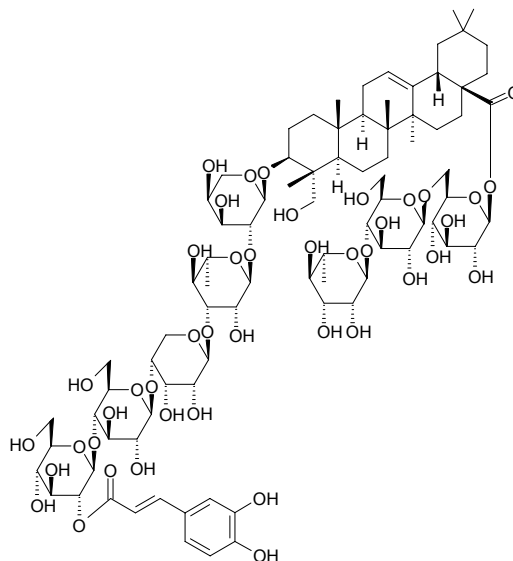
$C_{27}H_{26}O_{12}$ (542.50). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.00055%dw). Ref: 4712.

**3818 Clemaphenol A**

Clemaphenol A $C_{20}H_{22}O_6$ (358.39). Colorless oily liquid. Source: WEI LING XIAN *Clematis chinensis*. Ref: 871.

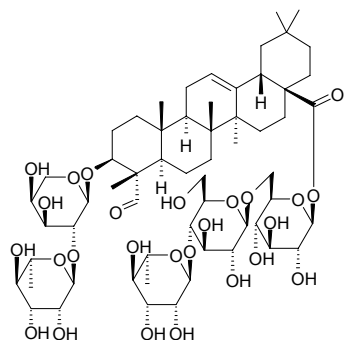
**3819 Clematibetoside A**

3-*O*-(2-*O*-Caffeoyl)-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→4)-β-*D*-ribosepyranosyl-(1→3)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranosyl-1 hederagenin 28-*O*-α-*L*-rhamnopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranoside $C_{85}H_{130}O_{43}$ (1839.96). Yellowish amorphous powder, $[\alpha]_D^{28} = -59.2^\circ$ ($c = 0.33$, MeOH). Source: XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 3530.

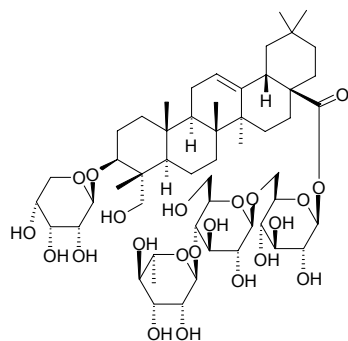


3820 Clematibetoside B

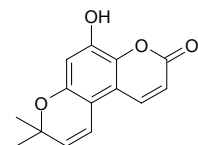
3-*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl gypsogenin 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside
 C₅₉H₉₄O₂₆ (1219.39). White amorphous powder, $[\alpha]_D^{28} = -13.0^\circ$ ($c = 0.51$, MeOH). Source: XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 3530.

**3821 Clematibetoside C**

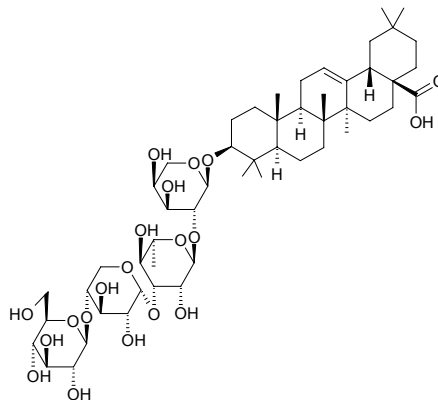
3-*O*- β -D-Ribopyranosyl hederagenin 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₅₃H₈₆O₂₂ (1075.26). White amorphous powder, $[\alpha]_D^{28} = -25.7^\circ$ ($c = 0.67$, MeOH). Pharm: Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 0.85 μ mol/L, HEK-293 cell line, IC₅₀ = 1.1 μ mol/L, WEHI-164 cell line, IC₅₀ = 1.2 μ mol/L; control 6-Mercaptopurine, J774.A1 cell line, IC₅₀ = 0.003 μ mol/L, HEK-293 cell line, IC₅₀ = 0.007 μ mol/L, WEHI-164 cell line, IC₅₀ = 0.015 μ mol/L)^[5036]. Source: XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 3530, 5036.

**3822 Clematichinenol**

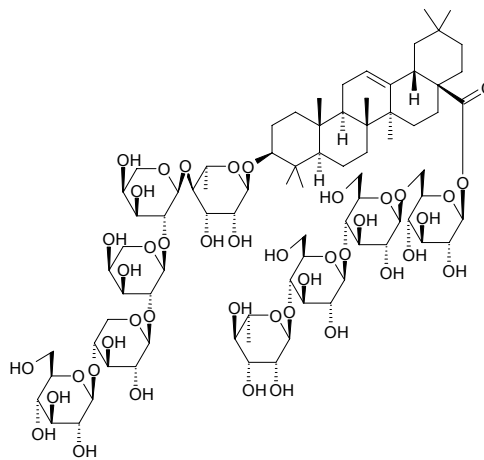
C₁₄H₁₂O₄ (244.25). mp 186–188°C. Source: WEI LING XIAN *Clematis chinensis*. Ref: 9.

**3823 Clematis prosapogenin, Cp7a**

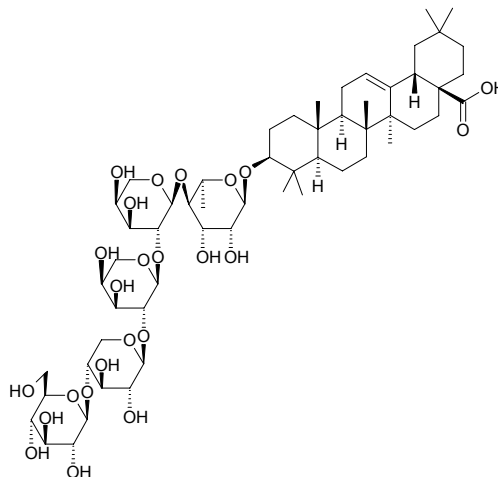
C₅₂H₈₄O₂₀ (1029.24). White powder, $[\alpha]_D^{20} = -18^\circ$ ($c = 0.8$, methanol). Source: CI QIU SHU PI *Kalopanax septemlobus*. Ref: 457.

**3824 Clematoside A**

C₈₁H₁₃₂O₄₃ (1793.93). Source: WEI LING XIAN *Clematis chinensis*. Ref: 6.

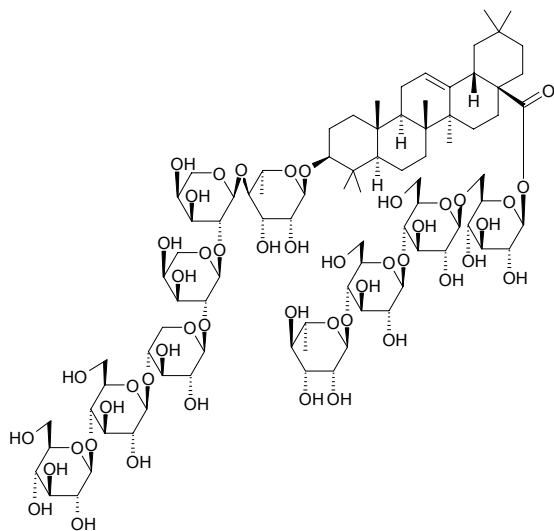
**3825 Clematoside A'**

C₅₇H₉₂O₂₄ (1161.35). mp 176–179°C. Source: WEI LING XIAN *Clematis chinensis*. Ref: 6.

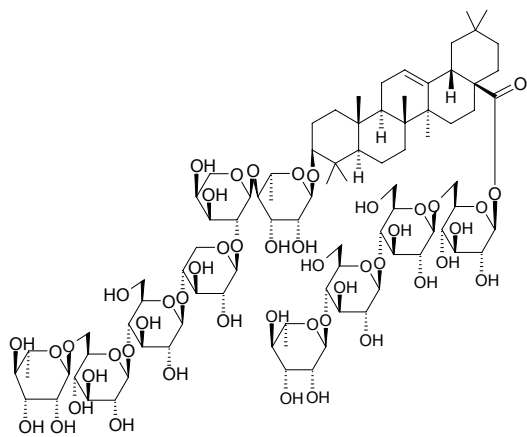


3826 Clematocide B

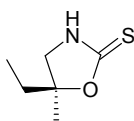
$C_{87}H_{142}O_{48}$ (1956.07). mp 200–202°C. Source: WEI LING XIAN *Clematis chinensis*. Ref: 6.

**3827 Clematocide C**

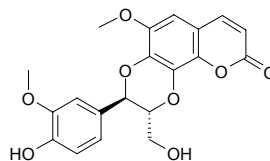
[18463-37-1] $C_{88}H_{144}O_{48}$ (1970.11). mp 213–215°C. Source: WEI LING XIAN *Clematis chinensis*. Ref: 6.

**3828 Cleomin**

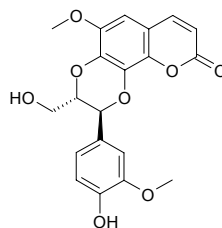
[75272-94-5] $C_6H_{11}NOS$ (145.22). mp 52°C. Source: BAI HUA CAI ZI *Cleome gynandra* [Syn. *Gynandropsis gynandra*]. Ref: 6.

**3829 Cleomiscosin A**

Cleosandrin [76948-72-6] $C_{20}H_{18}O_8$ (386.36). Nearly colorless rhombic crystals (methanol), mp 250–251°C; 250–252°C; 247–249°C, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.5$, methanol). Pharm: Cytotoxic (P_{388} , $ED_{50} = 0.4$ or $2.8\mu\text{g/mL}$, KB, $ED_{50} = 4.9\mu\text{g/mL}$)^[900]; cytotoxic (hmn, A549 $EC_{50} > 20\mu\text{g/mL}$, MCF7 $EC_{50} > 20\mu\text{g/mL}$)^[2529]. antihepatotoxin (rat liver cells, *in vitro*, 0.1mg/mL , liver damage caused by *D*-galactosamine, GPT reduced from 100% of control to 68%, $P < 0.001$)^[900]; tyrosinase inhibitor ($IC_{50} = (18.69 \pm 0.68)\mu\text{mol/L}$, control Kojic acid, $IC_{50} = (16.67 \pm 0.52)\mu\text{mol/L}$, *L*-Mimosine $IC_{50} = (3.68 \pm 0.02)\mu\text{mol/L}$)^[2544]; antioxidant (*in vitro*, rat liver microsomes lipid peroxidation, $IC_{50} = 9.0\mu\text{g/mL}$)^[3088]; MAO inhibitor inactive ($70\mu\text{g/mL}$)^[3088]; anti-HIV (H9 lymphocytic cells, inhibits replication, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) = $18.63\mu\text{g/mL}$)^[2529]. Source: A FU HAN DU JUAN HUA *Rhododendron collettianum*, CHE SANG ZI YE *Dodonaea viscosa*, DUO RUI BAI HUA CAI *Cleome icosandra*, HUANG HUA CAO *Cleome viscosa*, LANG DANG ZI *Hyoscyamus niger* (seed: yield = $0.024\% \text{dw}$)^[2096], MU JIN HUA *Hibiscus syriacus*^[3088], RI BEN QI YE SHU *Aesculus turbinata*, TAI WAN FU RONG *Hibiscus taiwanensis*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], *Matayba arborescens*, *Soulamea soulameoides*. Ref: 658, 900, 1521, 2096, 2529, 2544, 3088.

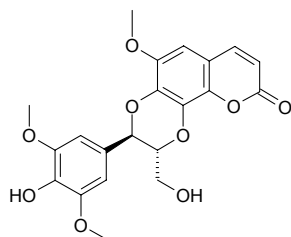
**3830 Cleomiscosin B**

[76985-93-8] $C_{20}H_{18}O_8$ (386.36). Colorless thin rhombic crystals (methanol–ethyl acetate), mp 274°C, $[\alpha]_D = 0^\circ$ ($c = 0.12$, methanol). Pharm: Antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL , liver damage caused by CCl_4 and *D*-galactosamine, GPT reduced from 100% of control to 82% and 49% respectively, $P < 0.001$). Source: LANG DANG ZI *Hyoscyamus niger* (seed: yield = $0.010\% \text{dw}$), RI BEN QI YE SHU *Aesculus turbinata*. Ref: 900, 2096.

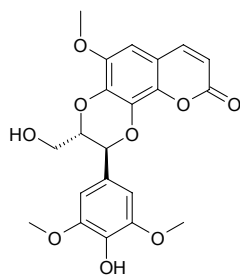


3831 Cleomiscosin C

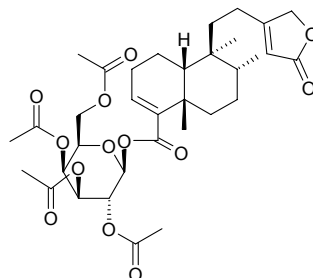
5'-Methoxy-cleomiscosin A; Aquillochin [84575-10-0] C₂₁H₂₀O₉ (416.39). Colorless rhombic crystals (methanol–ethyl acetate), mp 255°C, [α]_D = 0° (*c* = 0.08, methanol). **Pharm:** Antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL, liver damage caused by *D*-galactosamine, GPT reduced from 100% of control to 55%, *P* < 0.001); anti-HIV (H9 lymphocytic cells, inhibits HIV replication, IC₅₀ (concentration that inhibits uninfected H9 cell growth by 50%) > 25µg/mL)^[2529]; cytotoxic (hmn, A549 EC₅₀ > 20µg/mL, MCF7 EC₅₀ > 20µg/mL)^[2529]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100µmol/L, InRt = (-1.7±3.3)%)^[4304]; antioxidant (*in vitro*, rat liver microsomes lipid peroxidation, IC₅₀ = 0.7µg/mL)^[3088]; MAO inhibitor inactive (70µg/mL)^[3088]; tyrosinase inhibitor (IC₅₀ = (15.69±0.69)µmol/L, control Kojic acid, IC₅₀ = (16.67±0.52)µmol/L, *L*-Mimosine IC₅₀ = (3.68±0.02)µmol/L)^[2544]. **Source:** A FU HAN DU JUAN HUA *Rhododendron collettianum*, CHEN XIANG *Aquilaria agallocha*, CHE SANG ZI YE *Dodonaea viscosa*, MAO GUO QI *Acer nikoense* (stem cortex), MU JIN HUA *Hibiscus syriacus*^[3088], TAI WAN FU RONG *Hibiscus taiwanensis*. **Ref:** 660, 900, 2529, 2544, 3088, 4304.

**3832 Cleomiscosin D**

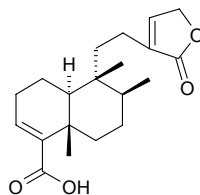
C₂₁H₂₀O₉ (416.39). **Pharm:** Antioxidant (*in vitro*, rat liver microsomes lipid peroxidation, IC₅₀ = 5.5µg/mL)^[3088]; MAO inhibitor inactive (70µg/mL)^[3088]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100µmol/L, InRt = (1.1±3.5)%)^[4304]. **Source:** MAO GUO QI *Acer nikoense* (stem cortex), MU JIN HUA *Hibiscus syriacus*. **Ref:** 3088, 4304.

**3833 cis-Cleroda-3,13(14)-dien-15,16-olide-18-O-[\beta-D-galactopyranosyl]-peracetyler**

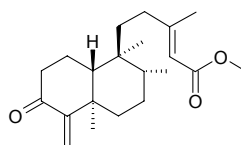
C₃₄H₄₆O₁₃ (662.74). Amorphous solid, [α]_D²⁵ = -31.6° (*c* = 0.88, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica*. **Ref:** 1933.

**3834 (+)-3,13-Clerodadien-16,15-olid-18-oic acid**

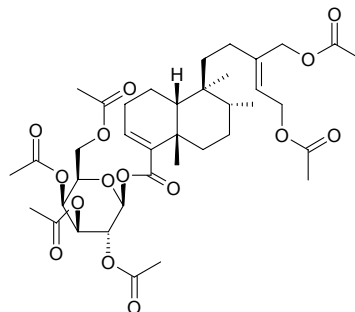
C₂₀H₂₈O₄ (332.44). **Source:** JIA LIAN QIAO YE *Duranta repens*. **Ref:** 4050.

**3835 4(18),13-Clerodadien-3-oxo-15-oic acid methyl ester**

C₂₁H₃₂O₃ (332.49). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.

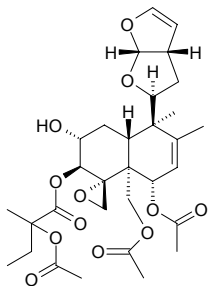
**3836 cis-Cleroda-15,16-dihydroxy-3,13(Z)-dien-18-O-[\beta-D-galactopyranosyl]-peracetyler**

C₃₈H₅₄O₁₅ (750.85). Amorphous solid, [α]_D²⁵ = -27.8° (*c* = 0.28, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica*. **Ref:** 1933.

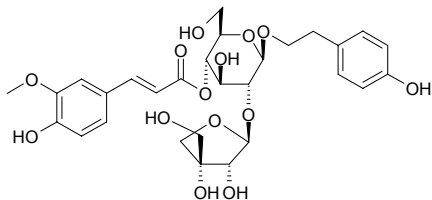


3837 Clerodendrin A

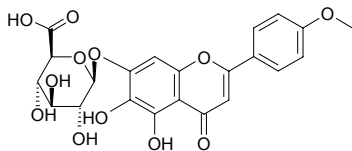
[35481-70-0] C₃₁H₄₂O₁₂ (606.67). **Pharm:** Insect antifeedant (*Spodoptera littoralis* larva). **Source:** CHOU WU TONG *Clerodendron trichotomum*. **Ref:** 6, 658.

**3838 Clerodendronoside**

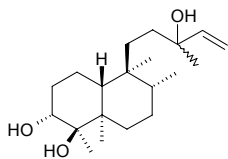
β -(4-Hydroxyphenyl)ethyl-*O*- β -D-apiofuranosyl-(1 \rightarrow 2)-4-*O*-*trans*-feruloyl- β -D-glucopyranoside C₂₉H₃₆O₁₄ (608.60). Yellow amorphous powder, mp 125~126°C, $[\alpha]_D^{20} = +11^\circ$ ($c = 0.02$, MeOH). **Source:** CHOU MU DAN *Clerodendrum bungei* (aerial parts). **Ref:** 4873.

**3839 Clerodendroside A**

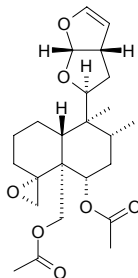
[64924-06-7] C₂₂H₂₀O₁₂ (476.40). Dihydrate: yellowish tiny acicular crystals (water-methanol), mp 208~211°C, $[\alpha]_D^{20} = -142^\circ$ ($c = 0.6$, pyridine). **Pharm:** Antihypertensive (anesthetic rat, iv). **Source:** AI TONG ZI *Clerodendron trichotomum* var. *fargesii*. **Ref:** 661.

**3840 Clerod-14-ene-3 α ,4 β ,13 ξ -triol**

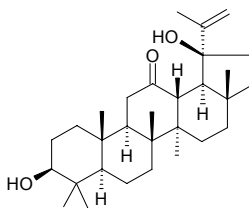
C₂₀H₃₆O₃ (324.51). $[\alpha]_D^{25} = -9.9^\circ$ ($c = 0.71$, CHCl₃). **Pharm:** Plant growth inhibitor (the strongest). **Source:** *Viguiera tucumanensis*. **Ref:** 1889.

**3841 Clerodin**

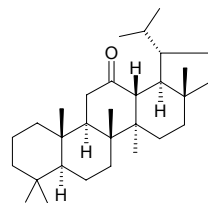
[464-71-1] C₂₄H₃₄O₇ (434.53). mp 161~162°C (dec). **Pharm:** Anthelmintic. **Source:** QIAN YU DA QING *Clerodendron infortunatum*, GUI DENG LONG *Clerodendron fortunatum*. **Ref:** 6, 658.

**3842 Clerodolone**

3,19-Dihydroxy-20(29)-lupen-12-one [10070-36-7] C₃₀H₄₈O₃ (456.72). mp 282~284°C. **Source:** CHOU WU TONG GEN *Clerodendron trichotomum*, GUI DENG LONG *Clerodendron fortunatum*, LU BIAN QING *Clerodendron cyrtophyllum*. **Ref:** 6, 660.

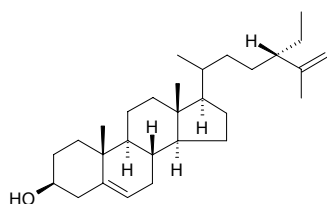
**3843 Clerodone**

12-Lupanone [10070-37-8] C₃₀H₅₀O (426.73). mp 260°C. **Source:** GUI DENG LONG *Clerodendron fortunatum*, CHOU WU TONG GEN *Clerodendron trichotomum*. **Ref:** 6.

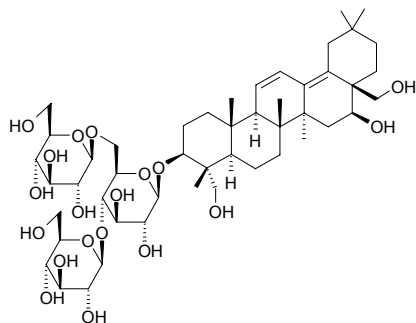


3844 Clerosterol

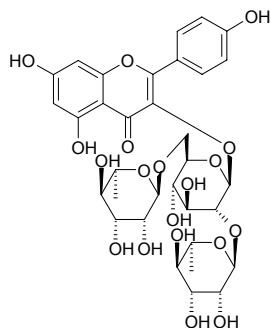
$\Delta^5,^{25}$ -Stigmastadienol [2364-23-0] $C_{29}H_{48}O$ (412.70). White scale crystals (ethanol), mp 137.6~138.4°C, 147°C. **Pharm:** Promotes growth of white blood cells strongly (2.9mg/mL and 12.0mg/kg). **Source:** CHOU WU TONG GEN *Clerodendron trichotomum*, GUI DENG LONG *Clerodendron fortunatum*, HONG HUA *Carthamus tinctorius*, LU BIAN QING *Clerodendron cyrtophyllum*, SHUI SONG *Codium fragile*. **Ref:** 6, 660, 900.

**3845 Clinodiside A**

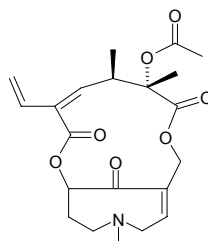
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)-[β -*D*-glucopyranosyl (1 \rightarrow 4)] (β -*D*-glucopyranosyl-olean-11,13(18)-diene-3 β ,16 β ,23,28-tetrol $C_{48}H_{78}O_{19}$ (959.15). White granular crystals, mp 249~251°C, $[\alpha]_D^{25} = +10.7^\circ$ (ethanol). **Source:** FENG LUN CAI *Clinopodium chinense*. **Ref:** 224.

**3846 Clitorin**

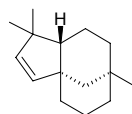
Kaempferol 3-*O*-(2'',6''-di-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside $C_{33}H_{40}O_{19}$ (740.68). **Source:** LAO YA SHI *Diospyros rhombifolia* (leaf), LV DOU *Onobrychis viciifolia* (leaf). **Ref:** 4464, 5084.

**3847 Clivorine**

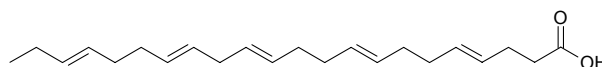
[33979-15-6] $C_{21}H_{27}NO_7$ (405.45). mp 148~150°C. **Pharm:** Mutagen; carcinogen (causes liver cancer). **Source:** CHI YE TUO WU *Ligularia dentata*, HU LU QI *Ligularia fischeri*, SHAN GANG TUO WU *Ligularia clivorum*, YA ZHI TUO WU *Ligularia elegans*, YAO YONG NIU SHE CAO *Anchusa officinalis*. **Ref:** 6, 658.

**3848 Clovene**

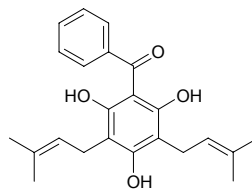
[469-92-1] $C_{15}H_{24}$ (204.36). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**3849 Clupanodonic acid**

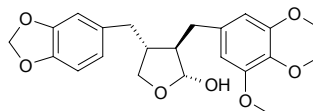
Docosapentenoic acid [2548-85-8] $C_{22}H_{34}O_2$ (330.52). bp 174~175°C /0.018~0.02mmHg. **Source:** HAI REN CAO *Digenea simplex*, SHI CHUN *Ulva lactuca*. **Ref:** 6.

**3850 Clusiaphenone B**

[70219-84-0] $C_{23}H_{26}O_4$ (366.46). **Pharm:** Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 11%, control BHT, 10 μ mol/L, ScRt = 43%). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

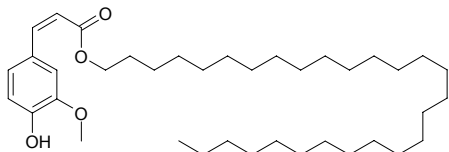
**3851 (-)-Clusin**

$C_{22}H_{26}O_7$ (402.45). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 0.83\mu$ mol/L; CYP2D6, $IC_{50} > 100\mu$ mol/L; control Ketoconazole, CYP3A4, $IC_{50} = 0.72\mu$ mol/L; control Quinidine, CYP2D6, $IC_{50} = 0.082\mu$ mol/L). **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.0028%dw). **Ref:** 4797.

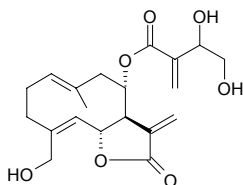


3852 Cluytly ferulate

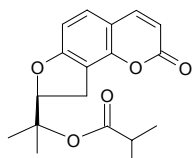
Octacosyl ferulate $C_{38}H_{66}O_4$ (586.95). **Pharm:** Antimalarial inactive (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, $IC_{50} > 50 \mu\text{mol/L}$, control Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{mol/L}$; D6 strain, $IC_{50} > 50 \mu\text{mol/L}$, Quinine, $IC_{50} = (0.042 \pm 0.002) \mu\text{mol/L}$). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (root cortex), HOU PI SHU *Lannea grandis* [Syn. *Lannea coromandelica*]. **Ref:** 6, 5420.

**3853 Cnicin**

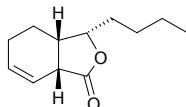
$C_{20}H_{26}O_7$ (378.43). **Pharm:** Antifungal (*Aspergillus niger*, MIC = $0.125 \mu\text{g/mL}$, control Miconazole, MIC = $1.5 \mu\text{g/mL}$; *Aspergillus ochraceus*, MIC = $0.06 \mu\text{g/mL}$, Miconazole, MIC = $1.5 \mu\text{g/mL}$; *Aspergillus versicolor*, MIC = $0.125 \mu\text{g/mL}$, Miconazole, MIC = $2 \mu\text{g/mL}$; *Aspergillus flavus*, MIC = $0.5 \mu\text{g/mL}$, Miconazole, MIC = $0.5 \mu\text{g/mL}$; *Penicillium ochrochloron*, MIC = $0.25 \mu\text{g/mL}$, Miconazole, MIC = $2 \mu\text{g/mL}$; *Penicillium funiculosum*, MIC = $0.5 \mu\text{g/mL}$, Miconazole, MIC = $2 \mu\text{g/mL}$; *Trichoderma viride*, MIC = $0.5 \mu\text{g/mL}$, Miconazole, MIC = $2 \mu\text{g/mL}$; *Cladosporium cladosporioides*, MIC = $0.125 \mu\text{g/mL}$, Miconazole, MIC = $0.03 \mu\text{g/mL}$; *Alternaria alternata*, MIC = $0.25 \mu\text{g/mL}$, Miconazole, MIC = $0.5 \mu\text{g/mL}$). **Source:** *Centaurea thessala* ssp. *drakensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). **Ref:** 5115.

**3854 Cnidiadin**

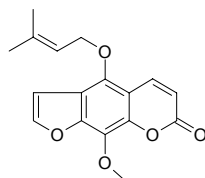
[41137-88-6] $C_{18}H_{20}O_5$ (316.36). mp $144\text{--}145^\circ\text{C}$. **Source:** SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 6.

**3855 Cnidilide**

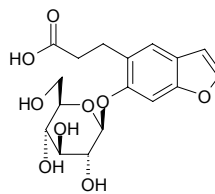
$C_{12}H_{18}O_2$ (194.28). bp $145\text{--}146^\circ\text{C}/2.5\text{mmHg}$. **Source:** DANG GUI *Angelica sinensis*, GAO BEN *Ligusticum sinense*, HAN QIN *Apium graveolens*. **Ref:** 6, 18, 19.

**3856 Cnidilin**

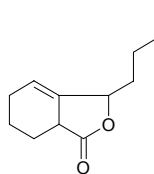
[14348-22-2] $C_{17}H_{16}O_5$ (300.31). Yellow amorphous powder. **Pharm:** Antileishmanial (*Leishmania major* promastigote, $10 \mu\text{mol/L}$, survival = $(74.6 \pm 5.5)\%$, $1 \mu\text{mol/L}$, survival = $(92.7 \pm 5.2)\%$, control Amphotericin B, $10 \mu\text{mol/L}$, survival = $(0.2 \pm 0.04)\%$, $1 \mu\text{mol/L}$, survival = $(71.9 \pm 4.4)\%$)^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = $0.2 \mu\text{g}$)^[3797]. **Source:** HANG BAI ZHI *Angelica taiwaniana*, *Niphogeton ternata*, *Thamnosma rhodesica* (root)^[3797]. **Ref:** 2, 3797, 4156.

**3857 Cnidioside A**

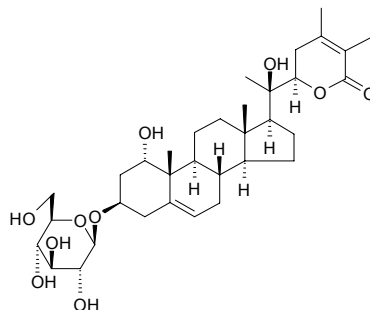
[141896-53-9] $C_{17}H_{20}O_9$ (368.34). Amorphous powder. **Source:** CHOU CAO *Ruta graveolens* (dried aerial part), FEN CHA DANG GUI *Angelica furcijuga* (flower), SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 1521, 3073, 4454.

**3858 Cnidium lactone**

$C_{12}H_{18}O_2$ (194.28). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

**3859 Coagulin Q**

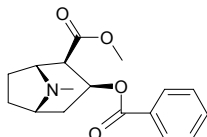
$C_{34}H_{52}O_{10}$ (620.79). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, $1 \mu\text{mol/L}$)^[4198]. **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root), NING GU SHUI QIE *Withania coagulans*. **Ref:** 1521, 4198.



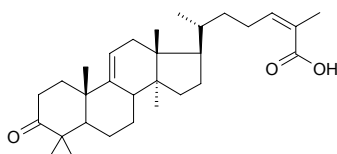
3860 Cocaine

Benzoyl methylecgonine [50-36-2] $C_{17}H_{21}NO_4$ (303.36). Colorless plates, mp 98°C, bp 187~188°C (13.33Pa), $[\alpha]_D^{20} = -16.3^\circ$ (chloroform), soluble in chloroform, ether, acetone, ethanol, acetic ester, slightly soluble in water.^[5507]

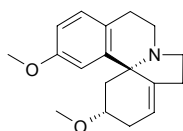
Pharm: Mydriatic; CNS activity (stimulates and focuses CNS). **Source:** GU KE *Erythroxylum coca*, BI LU GU KE *Erythroxylum novogranatense* (in 1858, isolated from the plant for the first time^[5507]). **Ref:** 658, 5507.

**3861 Coccinic acid**

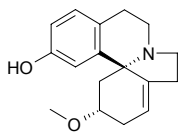
3-Oxolanosta-9(11),24-dien-26-oic acid $C_{30}H_{46}O_3$ (454.70). **Pharm:** Antineoplastic^[2523], anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 2436, 2523.

**3862 Cocculidine**

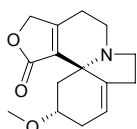
[25675-40-7] $C_{18}H_{23}NO_2$ (285.39). mp 86~87°C. **Source:** HENG ZHOU WU YAO *Cocculus laurifolius*. **Ref:** 6.

**3863 Cocculine**

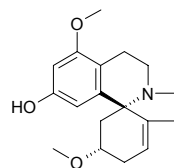
[25675-39-4] $C_{17}H_{21}NO_2$ (271.36). mp 217~218°C. **Source:** HENG ZHOU WU YAO *Cocculus laurifolius*. **Ref:** 6.

**3864 Cocculolidine**

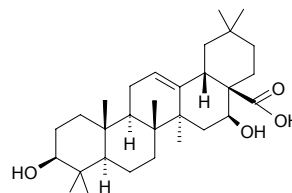
[13497-04-6] $C_{15}H_{19}NO_3$ (261.32). mp 144~146°C. **Pharm:** Insecticidal; antihypertensive (dog). **Source:** MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], MEI GUO QING TENG *Cocculus carolinus*, QING TENG XIANG *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. **Ref:** 6, 658, 660.

**3865 Coccutrine**

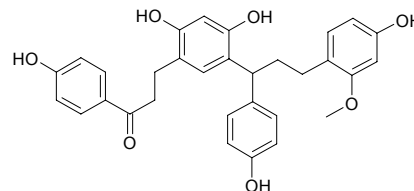
[59553-89-8] $C_{18}H_{23}NO_3$ (301.39). Acicular crystals, mp 263~265°C, $[\alpha]_D = +232^\circ$ **Source:** MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. **Ref:** 2078.

**3866 Cochalic acid**

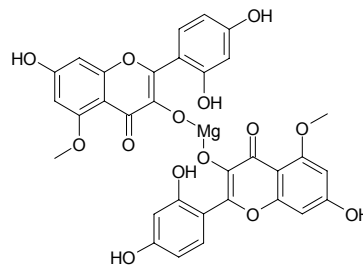
$C_{30}H_{48}O_4$ (472.71). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

**3867 Cochinchinenin**

$C_{31}H_{30}O_7$ (514.58). Yellow-brown amorphous powder. **Source:** JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. **Ref:** 870.

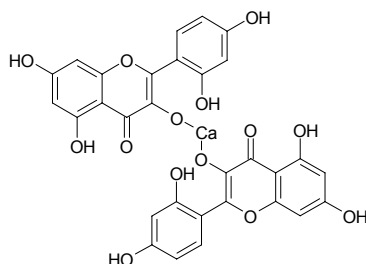
**3868 Cochinchinol A**

$C_{32}H_{22}MgO_{14}$ (654.84). Bright yellow powder. **Pharm:** Cytotoxic (Bel7402, ED₅₀ > 10µg/mL, control Camptothecin, ED₅₀ = 0.06µg/mL; BGC823, ED₅₀ > 10µg/mL, Camptothecin, ED₅₀ = 0.09µg/mL; HCT8, ED₅₀ > 10µg/mL, Camptothecin, ED₅₀ = 0.14µg/mL; A549, ED₅₀ > 10µg/mL, Camptothecin, ED₅₀ = 0.09µg/mL; MCF7, ED₅₀ > 10µg/mL, Camptothecin, ED₅₀ = 0.01µg/mL). **Source:** GOU JI *Cudrania cochinchinensis* (root). **Ref:** 5338.

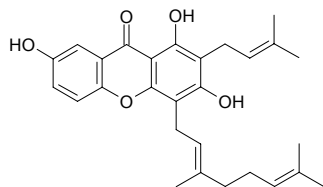


3869 Cochinchinol B

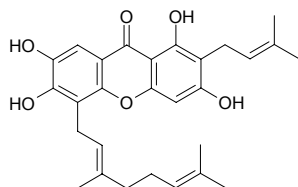
$C_{30}H_{18}CaO_{14}$ (642.55). Bright yellow powder. **Pharm:** Cytotoxic (Bel7402, $ED_{50} > 10\mu\text{g/mL}$, control Camptothecin, $ED_{50} = 0.06\mu\text{g/mL}$; BGC823, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09\mu\text{g/mL}$; HCT8, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.14\mu\text{g/mL}$; A549, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09\mu\text{g/mL}$; MCF7, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.01\mu\text{g/mL}$). **Source:** GOU JI *Cudrania cochinchinensis* (root). **Ref:** 5338.

**3870 Cochinchinone A**

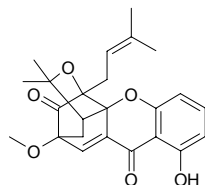
$C_{28}H_{32}O_5$ (448.56). Yellow solid, mp 119~120°C. **Pharm:** Antioxidant (DPPH scavenger, 50 $\mu\text{mol/L}$, ScRt = 20.7%; control BHT, 50 $\mu\text{mol/L}$, ScRt = 51.7%, $IC_{50} = 28.9\mu\text{mol/L}$). **Source:** HUANG NIU MU *Cratoxylum cochinchinense* (root). **Ref:** 4423.

**3871 Cochinchinone B**

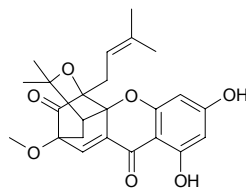
$C_{28}H_{32}O_6$ (464.56). Yellow solid, mp 221~222°C. **Pharm:** Antioxidant (DPPH scavenger, 50 $\mu\text{mol/L}$, ScRt = 79.3%, $IC_{50} = 9.4\mu\text{mol/L}$; control BHT, 50 $\mu\text{mol/L}$, ScRt = 51.7%, $IC_{50} = 28.9\mu\text{mol/L}$). **Source:** HUANG NIU MU *Cratoxylum cochinchinense* (root). **Ref:** 4423.

**3872 Cochinchinone C**

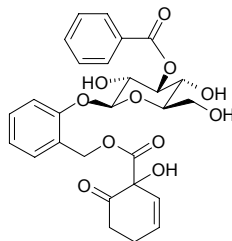
$C_{24}H_{26}O_6$ (410.47). Yellow solid, mp 147~148°C, $[\alpha]_D^{29} = +50^\circ$ ($c = 0.089$, CHCl_3). **Pharm:** Antioxidant inactive (DPPH scavenger, 50 $\mu\text{mol/L}$, ScRt = 1.7%; control BHT, 50 $\mu\text{mol/L}$, ScRt = 51.7%, $IC_{50} = 28.9\mu\text{mol/L}$). **Source:** HUANG NIU MU *Cratoxylum cochinchinense* (root). **Ref:** 4423.

**3873 Cochinchinone D**

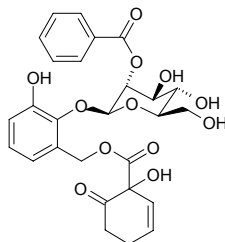
$C_{24}H_{26}O_7$ (426.47). Yellow solid, mp 218~219°C, $[\alpha]_D^{29} = -58^\circ$ ($c = 0.069$, CHCl_3). **Pharm:** Antioxidant inactive (DPPH scavenger, 50 $\mu\text{mol/L}$, ScRt = 5.2%; control BHT, 50 $\mu\text{mol/L}$, ScRt = 51.7%, $IC_{50} = 28.9\mu\text{mol/L}$). **Source:** HUANG NIU MU *Cratoxylum cochinchinense* (root). **Ref:** 4423.

**3874 Cochinchiside A**

$C_{27}H_{28}O_{11}$ (528.52). Pale yellow amorphous mass. **Source:** TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.009%). **Ref:** 4742.

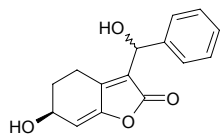
**3875 Cochinchiside B**

$C_{27}H_{28}O_{12}$ (544.52). Colorless amorphous mass. **Pharm:** Antiviral (HSV-1, $EC_{50} = 76\mu\text{mol/L}$; HSV-2, $EC_{50} = 76\mu\text{mol/L}$; HIV-1, $EC_{50} > 18\mu\text{mol/L}$; control Acyclovir, HSV-1, $EC_{50} = 1.1\mu\text{mol/L}$; HSV-2, $EC_{50} = 1\mu\text{mol/L}$; control Azidothymidine, HIV-1, $EC_{50} = 0.02\mu\text{mol/L}$). **Source:** TIAN LIAO MU *Homalium cochinchinensis* (leaf: yield = 0.0919%). **Ref:** 4742.

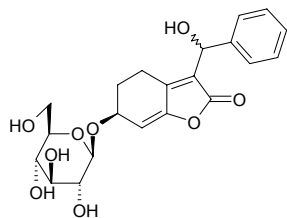


3876 Cochinelide

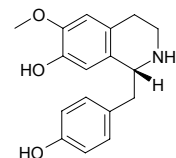
$C_{15}H_{14}O_4$ (258.28). Source: TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.038%). Ref: 4742.

**3877 Cochinelide β -glucopyranoside**

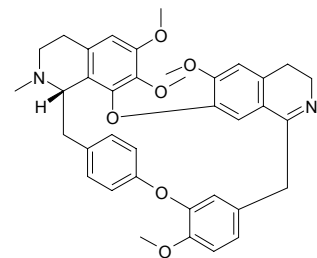
$C_{21}H_{24}O_9$ (420.42). Source: TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.327%). Ref: 4742.

**3878 D-Coclaurine**

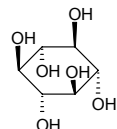
(+)-Coclaurine [486-39-5] $C_{17}H_{19}NO_3$ (285.35). Foam form, mp 220.0–222.5°C (acetone), $[\alpha]_D^{25} = +45.7^\circ$ ($c = 0.44$, ethanol). Pharm: Neuromuscular blocker (frog, MIC = 10 μ g/mL); sedative. Source: HENG ZHOU WU YAO *Cocculus laurifolius*, YIN BU HUAN *Cyclea barbata*. Ref: 6, 900.

**3879 Coclobine**

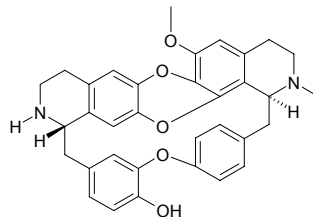
[24306-65-8] $C_{37}H_{38}N_2O_6$ (606.73). Source: MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 6, 660.

**3880 Cocositol**

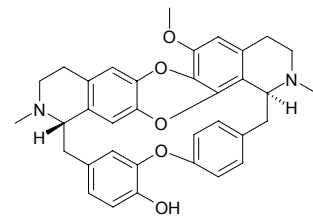
[488-59-5] $C_6H_{12}O_6$ (180.16). mp 353°C (dec). Source: YE ZI PI *Cocos nucifera*. Ref: 6.

**3881 Cocsoline**

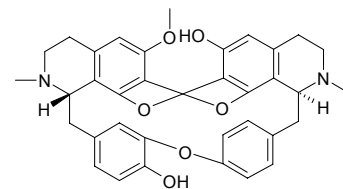
$C_{34}H_{32}N_2O_5$ (548.64). White amorphous powder, $[\alpha]_D^{25} = +205^\circ$ ($c = 0.15$, MeOH). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = (47.5 \pm 1.5) \mu$ mol/L, control Galanthamine, $IC_{50} = (0.5 \pm 0.001) \mu$ mol/L). Source: CHUI MU FANG JI *Cocculus pendulus*. Ref: 4051.

**3882 Cocsuline**

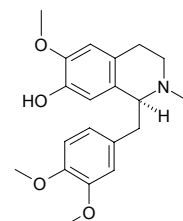
$C_{35}H_{34}N_2O_5$ (562.67). Yellow amorphous powder, $[\alpha]_D^{25} = +275^\circ$ ($c = 0.30$, MeOH). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = (100.0 \pm 1.2) \mu$ mol/L, control Galanthamine, $IC_{50} = (0.5 \pm 0.001) \mu$ mol/L). Source: CHUI MU FANG JI *Cocculus pendulus*. Ref: 4051.

**3883 Cocsulinine**

[54370-90-0] $C_{35}H_{34}N_2O_6$ (578.67). mp 260–263°C (chloroform–methanol), $[\alpha]_D^{25} = +312^\circ$ ($c = 0.5$). Pharm: Antineoplastic (KB, IC = 4.7 μ g/mL). Source: CHUI MU FANG JI *Cocculus pendulus*. Ref: 661.

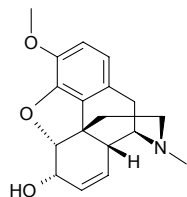
**3884 Codamine**

[21040-59-5] $C_{20}H_{25}NO_4$ (343.43). mp (+) 126–127°C, (–) 127–128°C, (\pm) 106–108°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

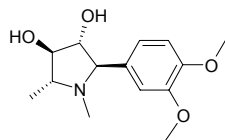


3885 Codeine

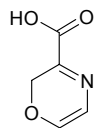
Methylmorphine; Paveral; Codicept; Morphine monomethyl ether [76-57-3] $C_{18}H_{21}NO_3$ (299.37). mp 155°C; easily soluble in ethanol, acetone, chloroform^[5507]. **Pharm:** Analgesic; antitussive (strongly inhibits medullary cough center). **Source:** BAI YAO ZI *Stephania cepharantha*, DA HONG YING SU *Papaver bracteatum*, YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum* (seed: content scope = 0.7%~2.5%; in 1832, isolated from the plant for the first time)^[5507], YING SU KE *Papaver somniferum* (dried capsule: content = 0.070%(phosphate)^[5508]). **Ref:** 6, 658, 5507, 5508.

**3886 Codonopsine**

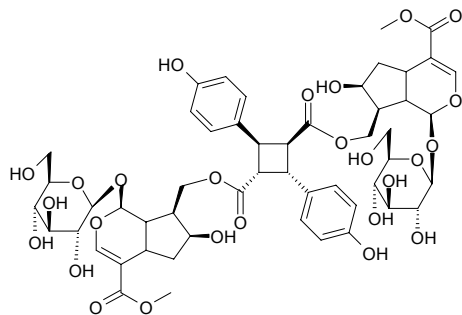
[26989-20-2] $C_{14}H_{21}NO_4$ (267.33). **Pharm:** Antihypertensive (cat, iv, >20mg/kg); LD₅₀ (mus) = 666~778mg/kg. **Source:** XIN JIANG DANG SHEN *Codonopsis clematidea*. **Ref:** 658.

**3887 Codopiloic acid**

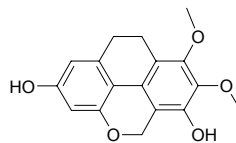
$C_5H_5NO_3$ (127.10). **Source:** DANG SHEN *Codonopsis pilosula*, CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**3888 Coelobillardin**

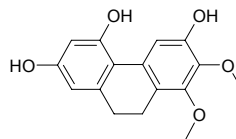
$C_{52}H_{64}O_{26}$ (1105.07). White amorphous solid, $[\alpha]_D = -55.7^\circ$ ($c = 1$, MeOH). **Source:** XIN SU GE LAN XUE GUO MU *Coelospermum billardieri*. **Ref:** 1961.

**3889 Coelogin**

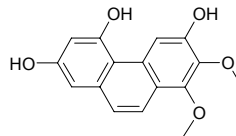
[82358-34-7] $C_{17}H_{16}O_5$ (300.31). **Pharm:** Antispasmodic. **Source:** BEI MU LAN *Coelogyne ovalis*, MAO CHUN BEI MU LAN *Coelogyne cristata*. **Ref:** 658.

**3890 Coeloginanthridin**

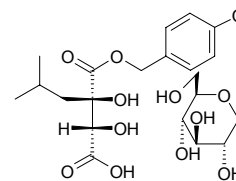
3,5,7-Trihydroxy-1,2-dimethoxy-9,10-dihydrophenanthrene $C_{16}H_{16}O_5$ (288.30). **Source:** MAO CHUN BEI MU LAN *Coelogyne cristata* (whole herb). **Ref:** 5198.

**3891 Coeloginanthrin**

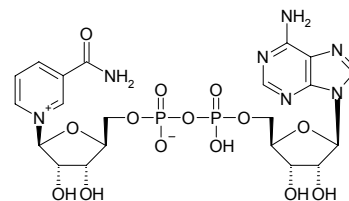
3,5,7-Trihydroxy-1,2-dimethoxyphenanthrene $C_{16}H_{14}O_5$ (286.29). **Source:** MAO CHUN BEI MU LAN *Coelogyne cristata* (whole herb). **Ref:** 5198.

**3892 Coelovirin A**

$C_{21}H_{30}O_{12}$ (474.47). White amorphous powder, $[\alpha]_D^{25} = -27.8^\circ$ ($c = 0.115$, MeOH). **Source:** AO SHE LAN *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*]. **Ref:** 2225.

**3893 Coenzyme I**

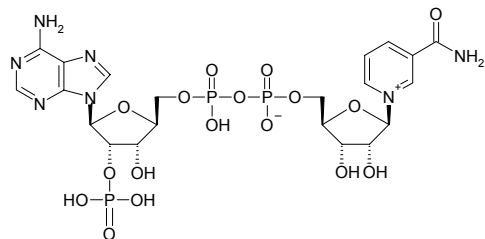
[53-84-9] $C_{21}H_{27}N_7O_{14}P_2$ (663.44). **Source:** YUAN CAN ZI *Bombyx mori*. **Ref:** 6.



3894 Coenzyme II

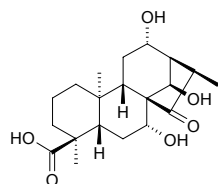
[53-59-8] $C_{21}H_{27}N_7O_{17}P_3$ (742.41). Source: YUAN CAN ZI *Bombyx mori*.

Ref: 6.

**3895 Coetsanoic acid**

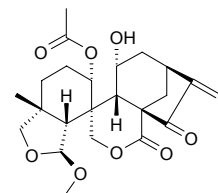
$C_{20}H_{30}O_6$ (366.46). mp > 300°C. Source: XI ZHUI XIANG CHA CAI

Rabdosia coetsa. Ref: 4067.

**3896 Coetsin A**

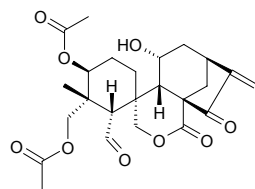
$C_{23}H_{30}O_8$ (434.49). mp 304~306°C, $[\alpha]_D^{10} = -125^\circ$ ($c = 0.2$, C_5H_5N). Source:

XI ZHUI XIANG CHA CAI *Rabdosia coetsa*. Ref: 4067.

**3897 Coetsin B**

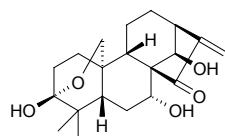
$C_{24}H_{30}O_9$ (462.50). mp 165~166°C, $[\alpha]_D^{17} = -129^\circ$ ($c = 0.2$, $CHCl_3$). Source:

XI ZHUI XIANG CHA CAI *Rabdosia coetsa*. Ref: 4067.

**3898 Coetsoidin A(Huang)**

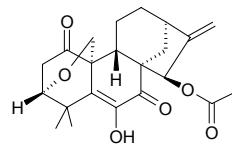
$C_{20}H_{28}O_5$ (348.44). mp 230~232°C, $[\alpha]_D^{21} = -150.1^\circ$ ($c = 0.543$, MeOH).

Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3899 Coetsoidin A(Wang)**

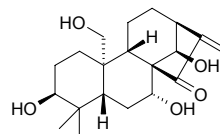
$C_{22}H_{26}O_6$ (386.45). Colorless columnar crystals, mp 180~181°C. Source: JIA

XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 132, 4067.

**3900 Coetsoidin B**

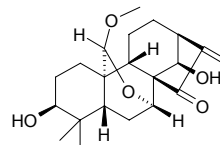
$C_{20}H_{30}O_5$ (350.46). mp 147~149°C, $[\alpha]_D^{21} = -104.2^\circ$ ($c = 0.523$, MeOH).

Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3901 Coetsoidin C**

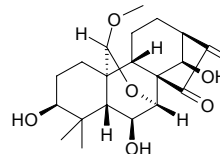
$C_{21}H_{30}O_5$ (362.47). mp 198~201°C, $[\alpha]_D^{24} = -35.5^\circ$ ($c = 0.507$, MeOH).

Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3902 Coetsoidin D**

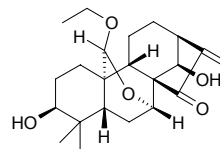
$C_{21}H_{30}O_6$ (378.47). mp 153~155°C, $[\alpha]_D^{24} = -27.3^\circ$ ($c = 0.513$, MeOH).

Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3903 Coetsoidin E**

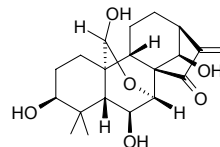
$C_{22}H_{32}O_5$ (376.50). mp 166~168°C, $[\alpha]_D^{24} = -36.8^\circ$ ($c = 0.502$, MeOH).

Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3904 Coetsoidin F**

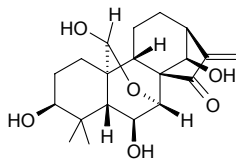
$C_{20}H_{28}O_6$ (364.44). Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia*

coetsoides. Ref: 4067.

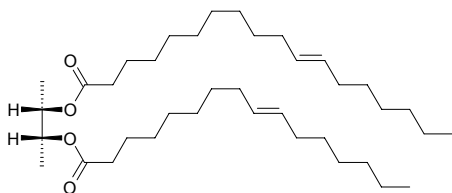


3905 Coetsoidin G

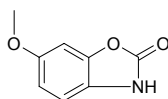
$C_{20}H_{28}O_6$ (364.44). Source: JIA XI ZHUI XIANG CHA CAI *Rabdosia coetsoides*. Ref: 4067.

**3906 Coixenolide**

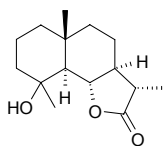
[29066-43-1] $C_{38}H_{70}O_4$ (590.98). Pharm: Cytotoxic (mus, EAC); immunoenhancer (erythrocyte of mus with cancer, reduces activity of Na^+, K^+ -ATPase in erythrocyte membrane). Source: YI YI REN *Coix lacryma-jobi* var. *ma-yuen*. Ref: 5, 6, 5501.

**3907 Coixol**

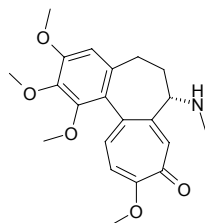
[53-91-2] $C_8H_7NO_3$ (165.15). mp 151~153°C. Pharm: Antihypertensive (rbt, iv, in short time); analgesic; antipyretic; hypoglycemic (rbt, sc); inhibits intestinal movement (rbt, *in vitro*); CNS depressant (weak); inhibits heart (toad, *in vitro*); inhibits reaction of actomyosin-adenosine triphosphate system; inhibits skeletal muscles; low toxin. Source: BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*, LU GEN *Phragmites communis*, YE GAN CAO *Scoparia dulcis*, YI MI *Coix lacryma-jobi*, YI YI REN *Coix lacryma-jobi* var. *ma-yuen*. Ref: 4, 6, 658, 5501.

**3908 Colartin**

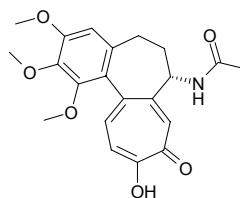
$C_{15}H_{24}O_3$ (252.36). Pharm: Cytotoxic (*in vitro*, HepG₂, CD₅₀ > 100µg/mL; HeLa, CD₅₀ > 100µg/mL; OVCAR-3, CD₅₀ > 100µg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8µg/mL; HeLa, CD₅₀ = 5.2µg/mL; OVCAR-3, CD₅₀ = 3µg/mL; without significant antibacterial effect)^[4720]. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0013%dw). Ref: 4720.

**3909 Colchamine**

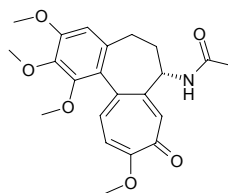
Demecolcine [477-30-5] $C_{21}H_{25}NO_5$ (371.44). Pharm: Antiatherosclerotic; antineoplastic; antimitotic (inhibits granular cells selectively); anti-fertility agent; antiviral (Influenza virus); toxin. Source: QIU SHUI XIAN *Colchicum autumnale*. Ref: 658.

**3910 Colchicine**

[477-27-0] $C_{21}H_{23}NO_6$ (385.42). Pharm: Antigout; LD₅₀ (mus, ip) = 84mg/kg. Source: QIU SHUI XIAN *Colchicum autumnale*. Ref: 658.

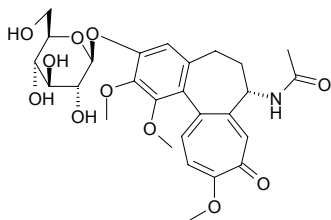
**3911 Colchicine**

[64-86-8] $C_{22}H_{25}NO_6$ (399.45). mp 155~157°C, $[\alpha]_D^{17} = -429^\circ$ ($c = 1.72$, water), $[\alpha]_D^{17} = -121^\circ$ ($c = 0.9$, chloroform), easily soluble in cold water, ethanol, chloroform, slightly soluble in hot water, ether, very slightly soluble in benzene, insoluble in absolute ether, petroleum ether.^[5507] Pharm: Anti-inflammatory (modulator of cytokine network: inhibits induction of VCAM-1 in both TNF- α - and IL-1 β -stimulated HUVECs)^[4416]; cytotoxic (*in vitro*, HL-60, IC₅₀ = 1.6µg/mL; Bel7402, IC₅₀ = 0.4µg/mL; HeLa, IC₅₀ = 0.1µg/mL; U937, IC₅₀ = 0.1µg/mL)^[4746]; antineoplastic; estrogenic activity; toxin (inhibits bone marrow); phyto-growth inhibitor (*Raphanus sativus* seeds, IC₅₀ = 0.40µg/mL)^[3949], LD (hmn) = 10mg. Source: BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], CAO BEI MU *Iphigenia indica*, GUANG CI GU *Tulipa edulis*, JIA DU XING CAI *Lepidium sativum*, JIA LAN *Gloriosa superba*, LI LU *Veratrum nigrum*, QIU SHUI XIAN *Colchicum autumnale* (corm: content scope = 0.3%~0.5%)^[5507], SHAN CI GU *Asarum sagittarioides*^[5507], WAN QU TIAN NAN XING *Arisaema curvatum*, XIAO XUAN CAO GEN *Hemerocallis minor*. Ref: 4, 5, 6, 658, 660, 3949, 4416, 4746, 5507.

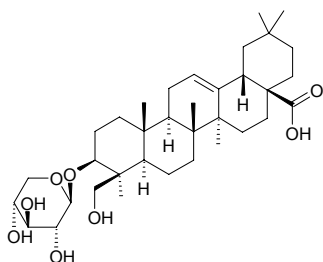


3912 Colchicoside

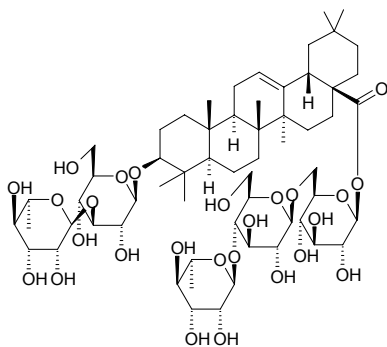
[477-29-2] $C_{27}H_{33}NO_{11}$ (547.56). Long square prismatic or lamellar crystals (ethanol), mp 216–218°C, 192–195°C, $[\alpha]_D^{15} = -360^\circ$ (water). Pharm: Low toxin; similar action with colchicine. Source: QIU SHUI XIAN *Colchicum autumnale*. Ref: 661.

**3913 Colchiside A**

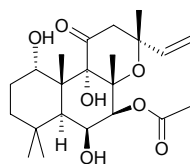
3-*O*-(β -*D*-Xylopyranosyl)-hederagenin $C_{38}H_{56}O_8$ (604.83). White powder, $[\alpha]_D^{25} = +12.6^\circ$ (MeOH). Source: QIU SHUI XIAN CHANG CHUN TENG *Hedera colchica* (berry). Ref: 3538.

**3914 Colchiside B**

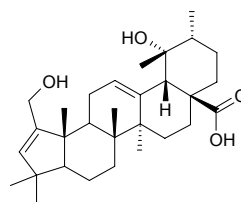
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranosyl]-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-oleanolate $C_{60}H_{98}O_{26}$ (1235.43). White powder, mp 180°C, $[\alpha]_D^{25} = +15^\circ$ (MeOH). Source: QIU SHUI XIAN CHANG CHUN TENG *Hedera colchica* (berry). Ref: 3538.

**3915 Coleonol**

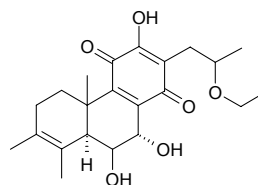
Forskolin [66575-29-9] $C_{22}H_{34}O_7$ (410.51). mp 230–232°C, $[\alpha]_D^{25} = -26.19^\circ$ ($c = 1.68$, chloroform). Pharm: Antispasmodic (gpg, gastrointestinal tract, nonspecific); CNS depressant (high dose); antihypertensive (cat, iv, 0.5mg/kg, the action lasts 80min). Source: MAO HOU QIAO RUI HUA *Coleus forskahlii*. Ref: 658, 661.

**3916 Coleonolic acid**

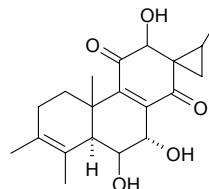
[128397-09-1] $C_{30}H_{46}O_4$ (470.70). Source: SAN YE SHU WEI CAO *Salvia trijuga*. Ref: 570.

**3917 Coleon S**

$C_{22}H_{30}O_6$ (390.48). Yellow needles (petrol ether–acetone), mp 117–119°C, $[\alpha]_D^{25} = +58.75^\circ$ (MeOH). Source: MAO HOU QIAO RUI HUA *Coleus forskahlii*. Ref: 2196.

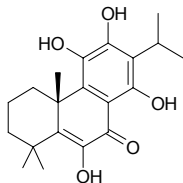
**3918 Coleon T**

$C_{20}H_{26}O_5$ (346.43). White needles (petrol ether–acetone), mp 171–173°C, $[\alpha]_D^{25} = +225.56^\circ$ (MeOH). Source: MAO HOU QIAO RUI HUA *Coleus forskahlii*. Ref: 2196.

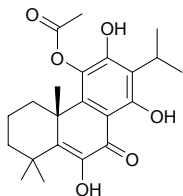


3919 Coleon U

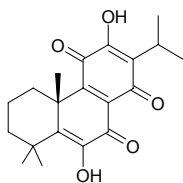
$C_{20}H_{26}O_5$ (346.43). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00070%dw). Ref: 4625.

**3920 Coleon U 11-acetate**

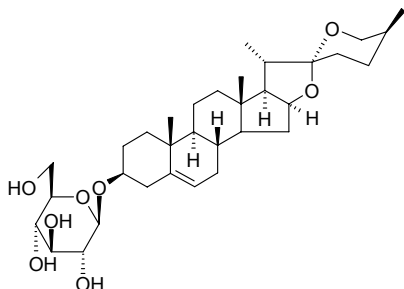
11-Acetoxy-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one $C_{22}H_{28}O_6$ (388.46). Yellow cubic crystals (hexane–Me₂CO), mp 190.5–192°C, $[\alpha]_D^{13.5} = +20.5^\circ$ ($c = 0.88$, CHCl₃). Pharm: Cytotoxic (*in vitro*, K562, IC₅₀ = 2.2 μg/mL; control Mitoxantrone, IC₅₀ = 2 μg/mL). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.031%dw). Ref: 4625.

**3921 Coleon U quinone**

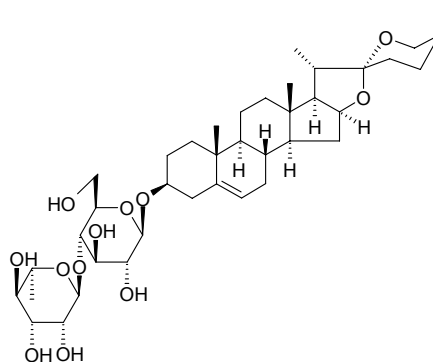
$C_{20}H_{24}O_5$ (344.41). Pharm: Cytotoxic (*in vitro*, K562, IC₅₀ = 3 μg/mL; control Mitoxantrone, IC₅₀ = 2 μg/mL). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00058%dw). Ref: 4625.

**3922 Collettinside I**

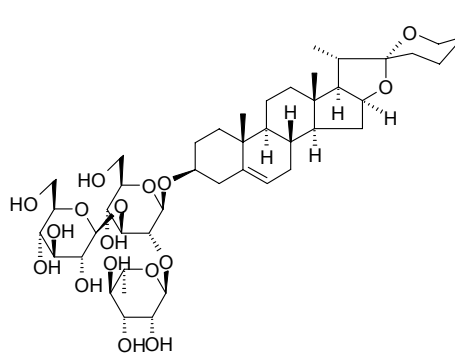
[14144-06-0] $C_{33}H_{52}O_8$ (576.78). Source: CHA RUI SHU YU *Dioscorea collettii*. Ref: 10.

**3923 Collettinside II**

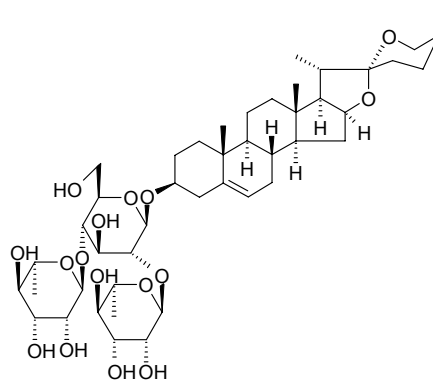
[88668-52-4] $C_{39}H_{62}O_{12}$ (722.92). White acicular crystals, mp 214–216°C, $[\alpha]_D^{20} = -97.9^\circ$ ($c = 0.48$, pyridine). Pharm: Anti-inflammatory; hypoglycemic. Source: CHA RUI SHU YU *Dioscorea collettii*. Ref: 10, 907.

**3924 Collettinside IV**

Zingiberenin B [88668-53-5] $C_{45}H_{72}O_{17}$ (885.07). White powder crystals, mp 284–285°C, $[\alpha]_D^{20} = -91.5^\circ$ ($c = 0.40$, pyridine). Pharm: Anti-inflammatory; hypoglycemic. Source: CHA RUI SHU YU *Dioscorea collettii*, DUN YE SHU YU *Dioscorea zingiberensis*. Ref: 10, 907, 1204.

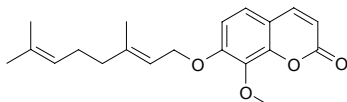
**3925 Collettinside III**

$C_{45}H_{72}O_{16}$ (869.07). Pharm: Antifungal (*Candida albicans*, 1 μg/mL). Source: CHA RUI SHU YU *Dioscorea collettii*, LU GEN *Phragmites communis*. Ref: 10, 2165.

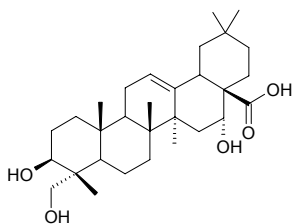


3926 Collinin

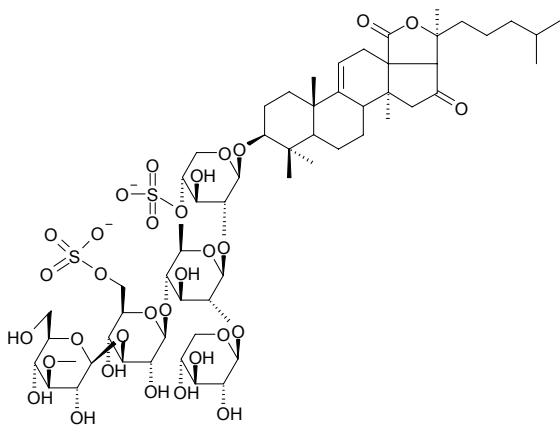
7-Geranyloxy-8-methoxycoumarin [34465-83-3] C₂₀H₂₄O₄ (328.41). mp 67–68°C, 66.5–67.0°C. **Pharm:** Platelet aggregation inhibitor (rbt, *in vitro*, platelet aggregation caused by arachidonic acid, collagen, and PAF, 50µg/mL or 100µg/mL InRt = 100%). **Source:** QING JIAO *Zanthoxylum schinifolium*, SHAN QIU JU PAN MU *Flindersia collina*. **Ref:** 1098, 1521.

**3927 Collinsogenin**

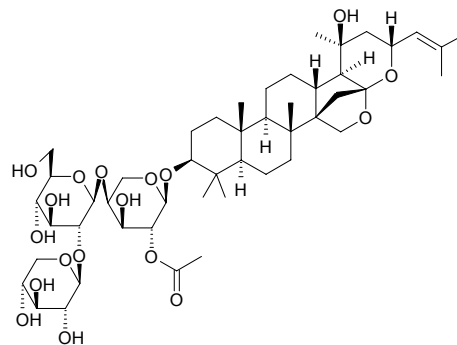
[52936-64-8] C₃₀H₄₈O₅ (488.71). White powder (acetone), mp 312–315°C. **Source:** ER RUI ZI SU *Collinsonia Canadensis*, XIA CAO *Gypsophila oldhamiana* (root). **Ref:** 1521, 4803.

**3928 Colochiroside A**

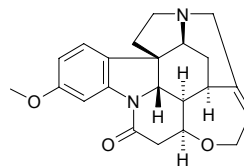
C₅₉H₉₂O₃₂S₂ (1377.50). White amorphous powder, mp 218–220°C, [α]_D²³ = –10.5° (c = 0.5, pyridine). **Source:** KE YI YI SHOU SHEN *Colochiros anceps*. **Ref:** 4890.

**3929 Colubrin**

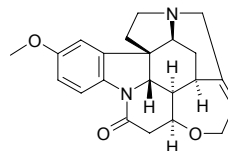
C₄₈H₇₆O₁₈ (941.13). **Pharm:** Sedative (mus). **Source:** SHE TENG *Colubrina asiatica*. **Ref:** 658.

**3930 α-Colubrine**

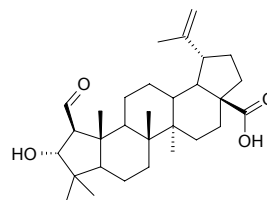
[509-44-4] C₂₂H₂₄N₂O₃ (364.45). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2.

**3931 β-Colubrine**

[509-36-4] C₂₂H₂₄N₂O₃ (364.45). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 542.

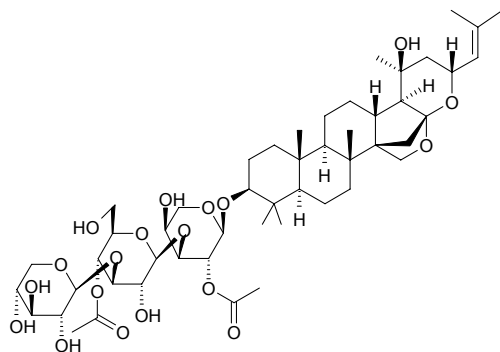
**3932 Colubrinic acid**

C₃₀H₄₆O₄ (470.70). White needles (MeOH), mp 262–264°C, [α]_D¹⁸ = –17.0° (c = 0.5, pyridine). **Pharm:** Cytotoxic inactive (K562, ED₅₀ > 20µmol/L, control Adriamycin, ED₅₀ = (0.09±0.03)µmol/L; B-16 (F-10), ED₅₀ > 20µmol/L, Adriamycin, ED₅₀ = (0.06±0.10)µmol/L; SK-MEL-2, ED₅₀ > 20µmol/L, Adriamycin, ED₅₀ = (0.09±0.3)µmol/L; PC3, ED₅₀ > 20µmol/L, Adriamycin, ED₅₀ = (0.83±0.18)µmol/L; LOX-IMVI, ED₅₀ > 20µmol/L, Adriamycin, ED₅₀ = (0.38±0.33)µmol/L; A549, ED₅₀ > 20µmol/L, Adriamycin, ED₅₀ = (0.67±0.21)µmol/L). **Source:** DA ZAO *Ziziphus jujuba*. **Ref:** 5479.

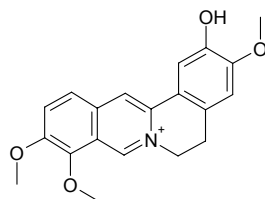


3933 Colubrinoside

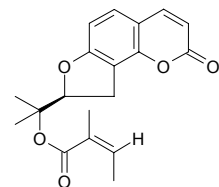
$C_{50}H_{78}O_{19}$ (983.17). **Pharm:** Sedative (mus). **Source:** SHE TENG *Colubrina asiatica*. **Ref:** 658.

**3934 Columbamine**

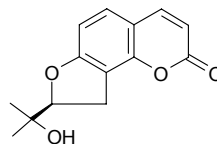
[3621-36-1] $C_{20}H_{20}NO_4^+$ (338.39). **Pharm:** Uterine stimulant. **Source:** HUA NAN GONG LAO MU *Mahonia japonica*, HUA NAN GONG LAO YE *Mahonia japonica*, HUANG LIAN *Coptis chinensis*, JIN GUO LAN *Tinospora capillipes*, MA WEI LIAN *Thalictrum foliolosum*, RI BEN XIAO BO *Berberis thunbergii*, XIAO BO *Berberis amurensis*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*] (rhizome: mean content of 4 origins = 0.026%^[5508]). **Ref:** 2, 658, 660, 5501, 5508.

**3935 Columbianadin**

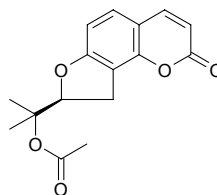
[5058-13-9] $C_{19}H_{20}O_5$ (328.37). **Pharm:** Platelet aggregation inhibitor (rat, *in vitro*, due to ADP, final concentration 1mg/mL, InRt = (24.5±11.3)%); DNA topoisomerase II inhibitor (EC < 10μmol/L, ID₅₀ < 10μmol/L); calcium antagonist (rat hypophysial GH₃ cell, inhibits calcium absorption induced by depolarization with intension not lower than verapamil); anti-inflammatory (10mg/kg); analgesic (10mg/kg); inhibits release of galactin (rat hypophysial GH₃ cell). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 6 origins = 0.118%^[5508]). **Ref:** 2, 344, 1454, 1589, 1591, 1592, 1593, 5508.

**3936 Columbianetin**

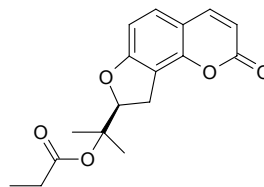
Dihydrooroselol [3804-70-4] $C_{14}H_{14}O_4$ (246.27). mp 164–166°C. **Pharm:** Platelet aggregation inhibitor (rat, *in vitro*, due to ADP, final concentration 1mg/mL, InRt = (42.2±11.3)%); antifungal (pathogenic bacteria of celery); cytotoxic (P₃₈₈). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*] (root: content scope of 10 origins = 0.018%–0.168%, mean content = 0.094%^[5508]), KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QIANG HUO *Notopterygium incisum*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 2, 6, 500, 660, 1589, 1594, 1595, 4502, 5508.

**3937 Columbianetin acetate**

O-Acetyl columbianetin [23180-65-6] $C_{16}H_{16}O_5$ (288.30). mp 127.5–128.5°C. **Pharm:** Platelet aggregation inhibitor (rat, *in vitro*, due to ADP, final concentration 1mg/mL, InRt = (46.6±2.2)%); anti-inflammatory (10mg/kg); analgesic (10mg/kg); EBV-EA inhibitor (TPA-induced, IC₅₀ = 504 Mol ratio/32 pmol TPA, control β-Carotene, IC₅₀ = 400 Mol ratio/32 pmol TPA)^[5255]. **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*] (root: content scope of 10 origins = 0.038%–0.183%, mean content = 0.121%^[5508]), SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 6 origins = 0.415%^[5508]), YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). **Ref:** 2, 6, 1589, 1592, 5255, 5508.

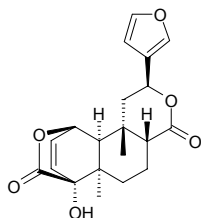
**3938 Columbianetin propionate**

$C_{17}H_{18}O_5$ (302.33). Colorless needles. **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 8.

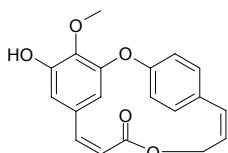


3939 Columbin

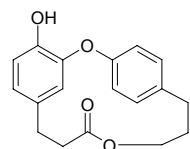
Tinosporin [546-97-4] $C_{20}H_{22}O_6$ (358.39). Acicular crystals (methanol), mp 192–195°C (dec), $[\alpha]_D = +52.5^\circ$ (pyridine). **Pharm:** Antifungal; hemolytic (rat red cells). **Source:** BAI MAO TENG *Solanum lyratum*, JIN GUO LAN *Tinospora capillipes*, MIAN GEN TENG *Calystegia hederacea*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, QING NIU DAN *Tinospora sagittata*. **Ref:** 6, 661.

**3940 Combretastatin D₃**

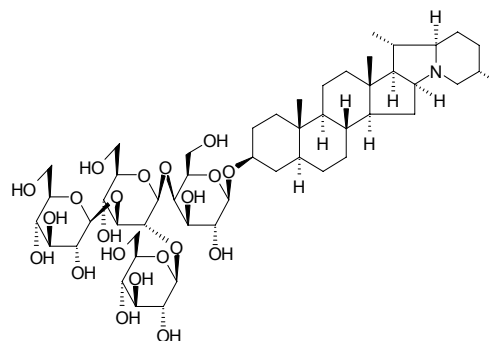
$C_{19}H_{16}O_5$ (324.34). Colorless needles, mp 212.6–213.1°C. **Pharm:** Antitubercular (MIC = 100.0 $\mu\text{g}/\text{mL}$, control Isoniazide, MIC = 0.040–0.090 $\mu\text{g}/\text{mL}$, control Kanamycin sulfate, MIC = 2.0–5.0 $\mu\text{g}/\text{mL}$); antiplasmodial ($IC_{50} > 20 \mu\text{g}/\text{mL}$, control Artemisinin, $IC_{50} = 0.001\text{--}0.002 \mu\text{g}/\text{mL}$); cytotoxic (NCI-H187, $IC_{50} = (13.0 \pm 0.2) \mu\text{g}/\text{mL}$, control Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; KB, $IC_{50} > 20 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; BC-1, $IC_{50} > 20 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; Vero cell, $IC_{50} > 50 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$). **Source:** *Getonia floribunda*. **Ref:** 5062.

**3941 Combretastatin D₄**

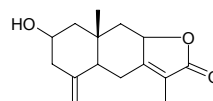
$C_{18}H_{18}O_4$ (298.34). White solid, mp 155.4–156.3°C. **Pharm:** Antitubercular (MIC > 200.0 $\mu\text{g}/\text{mL}$, control Isoniazide, MIC = 0.040–0.090 $\mu\text{g}/\text{mL}$, control Kanamycin sulfate, MIC = 2.0–5.0 $\mu\text{g}/\text{mL}$); antiplasmodial ($IC_{50} > 20 \mu\text{g}/\text{mL}$, control Artemisinin, $IC_{50} = 0.001\text{--}0.002 \mu\text{g}/\text{mL}$); cytotoxic (NCI-H187, $IC_{50} > 20 \mu\text{g}/\text{mL}$, control Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; KB, $IC_{50} > 20 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; BC-1, $IC_{50} > 20 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$; Vero cell, $IC_{50} > 50 \mu\text{g}/\text{mL}$, Ellipticine, $IC_{50} = 0.2\text{--}0.3 \mu\text{g}/\text{mL}$). **Source:** *Getonia floribunda*. **Ref:** 5062.

**3942 Commersonine**

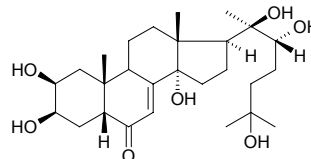
[60776-42-3] $C_{51}H_{85}NO_{21}$ (1048.24). **Pharm:** Cardiotonic (frog heart, *in vitro*). **Source:** CHA QIE *Solanum chacoense*, KE MO SEN QIE *Solanum commersonii*. **Ref:** 658.

**3943 Commiferin**

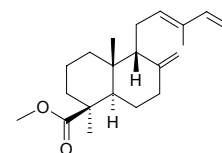
[39007-92-6] $C_{15}H_{20}O_3$ (248.32). mp 170°C. **Source:** MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*]. **Ref:** 6.

**3944 Commisterone**

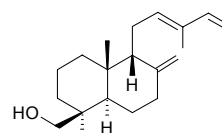
[5289-74-7] $C_{27}H_{44}O_7$ (480.65). mp 146–151°C. **Source:** LU SHUI CAO *Cyanotis vaga*. **Ref:** 6.

**3945 trans-Communic acid methyl ester**

$C_{21}H_{32}O_2$ (316.49). mp 104–105°C, $[\alpha]_D^{19} = -48.0^\circ$ ($c = 1.0$, CHCl_3). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 2182.

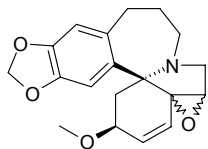
**3946 trans-Communol**

$C_{20}H_{32}O$ (288.48). mp 136–137°C, $[\alpha]_D^{19.1} = +14.5^\circ$ ($c = 0.18$, CHCl_3). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 2182.

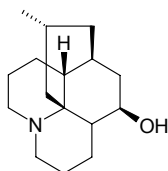


3947 Cososimine

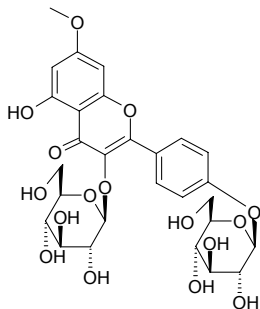
[31690-01-4] C₁₉H₂₁NO₄ (327.38). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**3948 Complanatine**

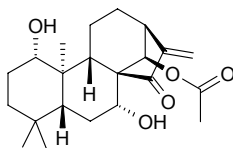
C₁₆H₂₇NO (249.40). mp 169°C. Source: GUO JIANG LONG *Lycopodium complanatum*. Ref: 6.

**3949 Complanatuside**

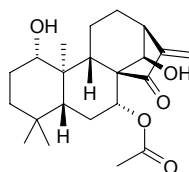
Rhamnocitrin-3,4'-*O*-β-*D*-diglucoside [116183-66-5] C₂₈H₃₂O₁₆ (624.56). Yellowish acicular crystals, mp 279~280°C, easily soluble in 50% ethanol, hardly soluble in water, insoluble in ether, chloroform and acetic ester, [α]_D¹⁹ = -50.83° (c = 0.02, DMSO). Source: BIAN JING HUANG QI *Astragalus complanatus* (dried ripe seed: content scope of 11 origins = 0.0143%~0.0918%, mean content = 0.0525%^[5508]). Ref: 99, 5508.

**3950 Compound 1 (*Isodon umbrosa*)**

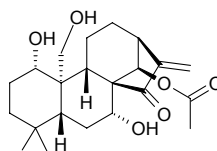
14-Acetyl kamebanin C₂₂H₃₂O₅ (376.50). Amorphous powder, [α]_D²² = -94.0° (c = 0.47, MeOH). Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 4067.

**3951 Compound 2 (*Isodon umbrosa*)**

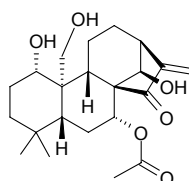
7-Acetyl kamebanin C₂₂H₃₂O₅ (376.50). mp 201~202°C, [α]_D²² = -121.8° (c = 0.63, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 4067.

**3952 Compound 3 (*Isodon umbrosa*)**

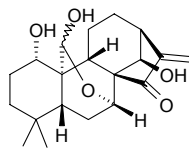
14-Acetyl kamebakaurin C₂₂H₃₂O₆ (392.50). Amorphous powder, [α]_D²² = -109.7° (c = 0.52, MeOH). Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 4067.

**3953 Compound 4 (*Isodon umbrosa*)**

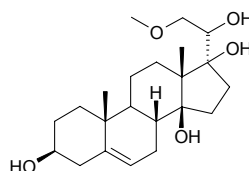
7-Acetyl kamebakaurin C₂₂H₃₂O₆ (392.50). Amorphous powder, [α]_D²² = -110.9° (c = 0.83, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 4067.

**3954 Compound 9 (*Isodon umbrosa*)**

C₂₀H₂₈O₅ (348.44). Amorphous powder, [α]_D²² = -55.8° (c = 1.54, MeOH). Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 4067.

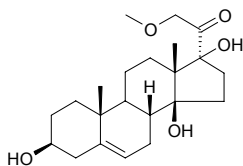
**3955 Compound 1 (*Periploca sepium*)**

C₂₂H₃₆O₅ (380.53). mp 254~257°C, [α]_D = -26.88°. Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 2498.

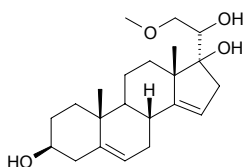


3956 Compound 1a (*Periploca sepium*)

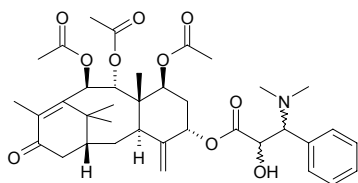
$C_{22}H_{34}O_5$ (378.51). mp 239°C, $[\alpha]_D = -46.5^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.

**3957 Compound 2 (*Periploca sepium*)**

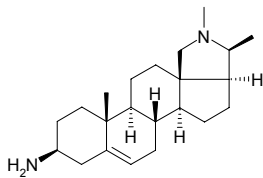
$C_{22}H_{34}O_4$ (362.51). mp 157~159°C, $[\alpha]_D = +66.1^\circ$. Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 2498.

**3958 Comptonine**

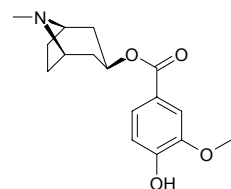
[126585-69-1] $C_{37}H_{49}NO_{10}$ (667.80). $[\alpha]_D = +85^\circ$ ($c = 0.082$, $CHCl_3$). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**3959 Conamine**

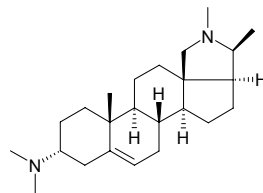
Con-5-enin-3β-amine [468-34-8] $C_{22}H_{36}N_2$ (328.55). mp 130°C. Source: ZHI XIE MU PI *Holarrena antidysenterica*. Ref: 6.

**3960 Concneorine**

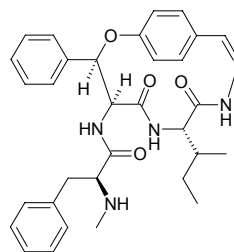
3β-Acyloxytropane $C_{16}H_{21}NO_4$ (291.35). Oil. Source: *Convolvulus cneorum*. Ref: 5292.

**3961 Concuressine**

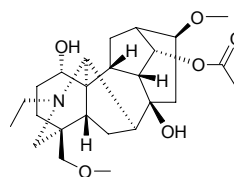
$C_{24}H_{40}N_2$ (356.60). mp 86.5~87.5°C. Source: ZHI XIE MU PI *Holarrena antidysenterica*. Ref: 6.

**3962 Condaline A**

$C_{33}H_{38}N_4O_4$ (554.70). Pharm: Antibacterial (gram-positive: *Staphylococcus aureus*, MIA = 12.5μg, control Chloramphenicol, MIA = 0.7μg; *Staphylococcus epidermidis*, MIA = 3.12μg, Chloramphenicol, MIA = 0.7μg; *Micrococcus luteus*, MIA = 12.5μg, Chloramphenicol, MIA = 0.7μg; gram-negative: *Salmonella setubal*, MIA = 6.25μg, Chloramphenicol, MIA = 0.7μg; *Escherichia coli*, MIA = 6.25μg, Chloramphenicol, MIA = 0.5μg; *Klebsiella pneumoniae*, MIA = 3.12μg, Chloramphenicol, MIA = 0.5μg); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100μg). Source: HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). Ref: 5323.

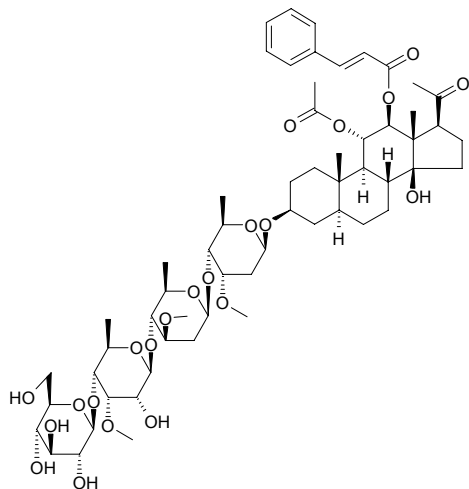
**3963 Condelphine**

$C_{25}H_{39}NO_6$ (449.59). Pharm: Antihypertensive; neuromuscular blocker; similar action with methyllycaconitine. Source: YI SI CUI QUE *Delphinium confusum*, LU CUI QUE *Delphinium denudatum*. Ref: 658.

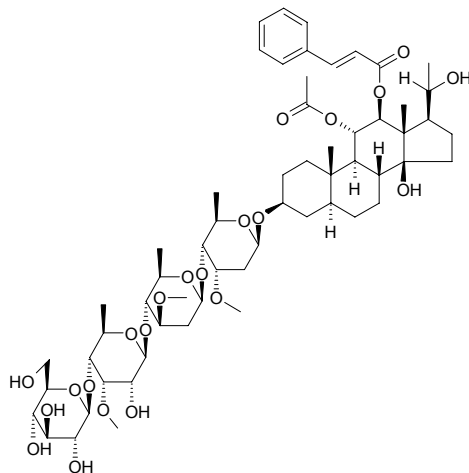


3964 Conduranglycoside A₀

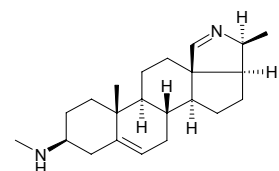
C₅₉H₈₈O₂₂ (1149.35). Amorphous white powder, mp 170~174°C, [α]_D+43.9 (*c* = 0.62, methanol). Pharm: Antineoplastic (S₁₈₀, ICR mus Ehrlich's cancer); LD₅₀ (mus) = 75mg/kg. Source: NAN MEI NIU NAI CAI *Marsdenia condurango*. Ref: 661.

**3965 Conduranglycoside C₀**

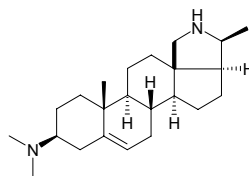
C₅₉H₉₀O₂₂ (1151.36). Amorphous powder, mp 160~170°C, [α]_D = +25.9° (*c* = 1.28, methanol). Pharm: Antineoplastic (S₁₈₀, ICR mus, Ehrlich's cancer); LD₅₀ (mus) = 375mg/kg. Source: NAN MEI NIU NAI CAI *Marsdenia condurango*. Ref: 661.

**3966 Conessidine**

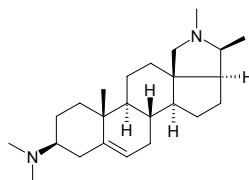
[6877-20-9] C₂₂H₃₄N₂ (326.53). mp 123°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**3967 Conessimine**

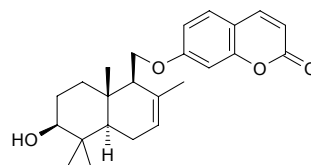
[631-05-0] C₂₃H₃₈N₂ (342.57). mp 100°C, bp 230°C/1.8mmHg. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**3968 Conessine**

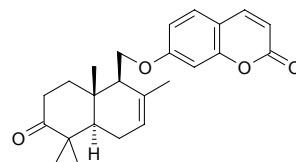
Neriine [546-06-5] C₂₄H₄₀N₂ (356.60). mp 123~128°C. Pharm: Antiprotozoal; digestive enzymes inhibitor; local anesthetic (gpg, rbt, sc); paralysis (frog CNS). Source: DUAN ROU MAO ZHI XIE MU *Holarrhena pubescens*, FAN HUA ZHI XIE MU *Holarrhena floribunda*, FEI ZHOU ZHI XIE MU *Holarrhena africana*, GANG GUO HE ZHI XIE MU *Holarrhena congolensis*, TUI RE ZHI XIE MU *Holarrhena febrifuga*, WEN ROU ZHI XIE MU *Holarrhena mitis*, WO SHI ZHI XIE MU *Holarrhena waltsbergii*, ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 4, 6, 658.

**3969 Conferol**

[41743-46-8] C₂₄H₃₀O₄ (382.50). Source: A WEI *Ferula assafoetida*. Ref: 6.

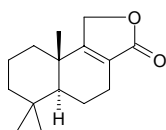
**3970 Conferone**

[41743-47-9] C₂₄H₂₈O₄ (380.49). mp 142.0~142.5°C. Source: A WEI *Ferula assafoetida*. Ref: 6.

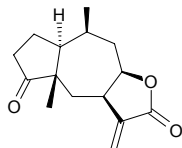


3971 Confertifolin

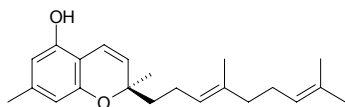
[1811-23-0] C₁₅H₂₂O₂ (234.34). mp 152°C. Source: SHUI LIAO *Polygonum hydropiper*. Ref: 6.

**3972 Confertin**

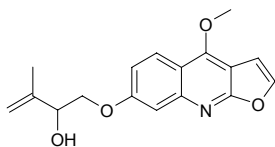
[19908-69-1] C₁₅H₂₀O₃ (248.32). Pharm: Insect growth inhibitor. Source: MI HUA TUN CAO *Ambrosia confertiflora*, BAI CI GUO TUN CAO *Ambrosia dumosa*. Ref: 658.

**3973 Confluentin**

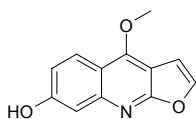
C₂₂H₃₀O₂ (326.5). Pharm: Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced). Source: MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.040%) Ref: 4755.

**3974 Confusadine**

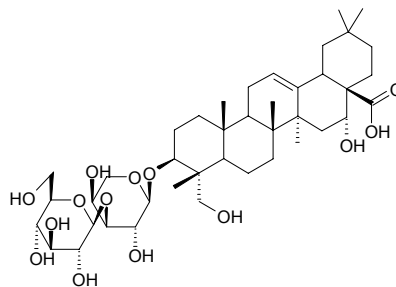
C₁₇H₁₇NO₄ (299.33). Pharm: Cytotoxic (P₃₈₈ cell line, ED₅₀ = 12.9 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 18.6 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 4.3 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

**3975 Confusameline**

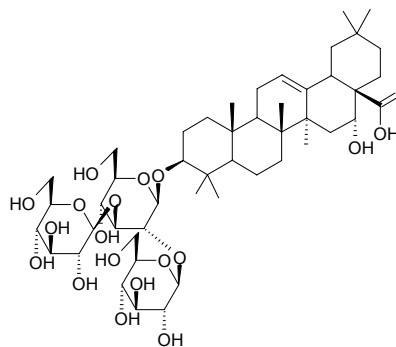
C₁₂H₉NO₃ (259.21). Pharm: Cytotoxic (P₃₈₈ cell line, ED₅₀ = 0.03 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 2.3 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 0.24 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

**3976 Congmuyanoside A**

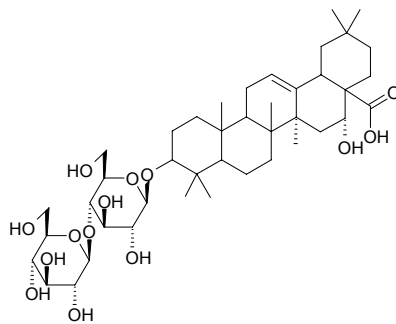
Elatoside J; 3-*O*-[β-*D*-Glucopyranosyl-(1→3)]-α-*L*-arabinopyranosyl]caulophyllogenin C₄₁H₆₆O₁₄ (782.97). White amorphous powder, [α]_D²⁵ = +0.024° (*c* = 1.06g/L, MeOH). Source: LIAO DONG CONG MU *Aralia elata* (bud). Ref: 4892.

**3977 Congmuyanoside B**

3-*O*-[β-*D*-Glucopyranosyl-(1→2)]-[β-*D*-glucopyranosyl-(1→3)] β-*D*-glucopyranosyl echinostic acid C₄₈H₇₈O₁₉ (959.15). White amorphous powder, [α]_D²⁵ = +0.008° (*c* = 0.64g/L, MeOH). Source: LIAO DONG CONG MU *Aralia elata* (bud). Ref: 4892.

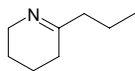
**3978 Congmuyanoside C**

3-*O*-β-*D*-Glucopyranosyl (1→4)-β-*D*-glucopyranosyl echinocystic acid C₄₂H₆₈O₁₄ (797.00). White amorphous powder. Source: LIAO DONG CONG MU *Aralia elata* (bud). Ref: 4901.

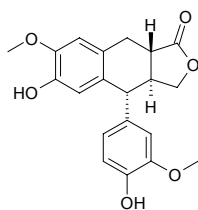


3979 γ -Coniceine

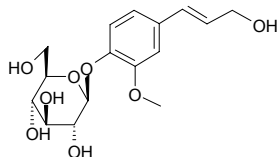
[1604-01-9] C₈H₁₅N (125.22). **Pharm:** Teratogen; supertoxic agent. **Source:** DU SHEN *Conium maculatum*, JI SHI LU HUI *Aloe gililandii*, BEI LI LU HUI *Aloe ballyi*, LA SHI LU HUI *Aloe ruspoliana*, SA BA LU HUI *Aloe sabaea*. **Ref:** 658, 728.

**3980 α -Conidendrin**

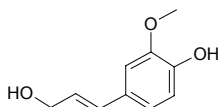
[85699-62-3] C₂₀H₂₀O₆ (356.38). **Pharm:** Cytotoxic (*in vitro*, 26-L5, EC₅₀ > 100 μ g/mL; HT1080, EC₅₀ > 100 μ g/mL; control 5-FU, Colon26-L5, EC₅₀ = 0.29 μ g/mL; HT1080, EC₅₀ = 0.07 μ g/mL)^[4661]; antioxidant (DPPH scavenger, IC₅₀ = 65.8 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L)^[5407]; NO production inhibitor (IC₅₀ = 161 μ mol/L, control *L*-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood; yield = 0.0044%dw). **Ref:** 4661, 5407.

**3981 Coniferin**

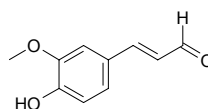
[531-29-3] C₁₆H₂₂O₈ (342.35). **Pharm:** Precursor to biosynthesis of lignin; anti-inflammatory (calcium-stimulated mouse peritoneal macrophages and hmn platelets, inhibits COX metabolite PGE₂, IC₅₀ = 75.2 μ mol/L; inhibits COX metabolite TXB₂, IC₅₀ = 619 μ mol/L); inhibits 5-LOX metabolites especially LTC₄, IC₅₀ = 63.6 μ mol/L)^[4415]. **Source:** XI JUAN YA CONG *Scorzonera hispanica*, SI LENG LA SHU *Fraxinus quadrangulata*, DU ZHONG *Eucommia ulmoides*, MAO PAO TONG *Paulownia tomentosa*, *Larix* sp., *Abies* sp., *Asparagus* sp., *Lonicera* sp. **Ref:** 2, 658, 660, 4415.

**3982 *trans*-Coniferyl alcohol**

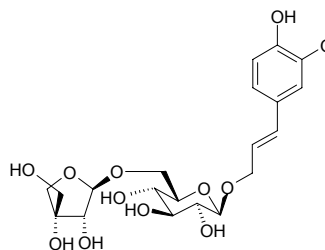
3-(4-Hydroxy-3-methoxyphenyl)-prop-2-enol C₁₀H₁₂O₃ (180.21). **Pharm:** Cytotoxic inactive (KB, Col2, LNCaP, Lu1, HUVEC, IC₅₀ > 20 μ g/mL)^[3009]. **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root; yield = 0.00007%dw)^[3009], YI ZHU QIAN MA *Urtica dioica*. **Ref:** 660, 3009.

**3983 Coniferyl aldehyde**

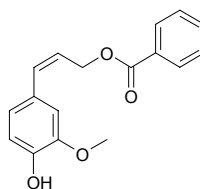
4-Hydroxy-3-methoxy-*trans*-cinnamaldehyde [458-36-6] C₁₀H₁₀O₃ (178.39). **Pharm:** Antifungal; prostaglandin biosynthesis inhibitor; detumescent (rat ears); antioxidant (DPPH free radical scavenger, IC₅₀ = 195 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L)^[5407]; NO production inhibitor (IC₅₀ = 18.0 μ mol/L, control *L*-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** HUI HUI TAO *Juglans cinerea*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), YIN BAI QI *Acer saccharinum*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood), *Quercus* sp., *Sequoia* sp. **Ref:** 658, 4488, 5407.

**3984 Coniferyl 9-O-[β -D-apiofuranosyl(1 \rightarrow 6)]-O- β -D-glucopyranoside**

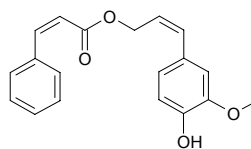
C₂₁H₃₀O₁₂ (474.47). White powder, mp 276–278°C, [α]_D²⁰ = +8.7° (c = 0.50, H₂O). **Pharm:** Antioxidant (*in vitro*, effect on conjugated diene formation of LDL or MDA level in rat brain)^[4792]. **Source:** SHI LIU ZHONG ZI *Punica granatum* (seed; yield = 0.00093%). **Ref:** 4792.

**3985 Coniferyl benzoate**

C₁₇H₁₆O₄ (281.31). mp 158–159°C. **Source:** YUE NAN AN XI XIANG *Styrax tonkinensis*. **Ref:** 6, 660.

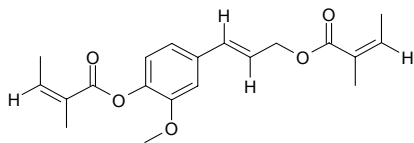
**3986 Coniferyl cinnamate**

C₁₉H₁₈O₄ (310.35). **Source:** AN XI XIANG *Styrax benzoin*. **Ref:** 6.

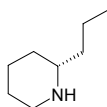


3987 Coniferyl diangelate

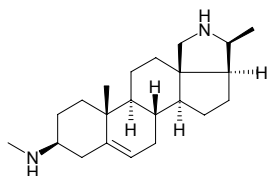
$C_{20}H_{24}O_5$ (344.41). bp 130°C/0.01mmHg. Source: HONG TOU CAO *Blumea lacera*. Ref: 6.

**3988 Coniine**

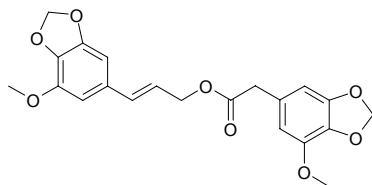
[458-88-8] $C_8H_{17}N$ (127.23). bp 166~167°C, $[\alpha]_D^{19} = +16^\circ$, slightly soluble in hot water, chloroform, soluble in ethanol, ether, acetone, benzene.^[5507] Pharm: Teratogen (cattle and pig in gestational period); Toxin (paralyzes motor nerve ending). Source: DU SHEN *Conium maculatum*, DU QIN GEN *Cicuta virosa*^[5507], HUANG PING ZI CAO *Sarracenia flava*, BAN XIA *Pinellia ternata*. Ref: 2, 658, 5507.

**3989 Conimine**

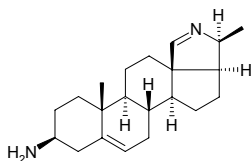
$C_{22}H_{36}N_2$ (328.55). mp 134°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**3990 Coniselin**

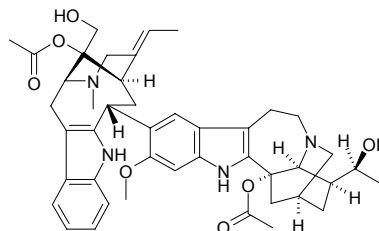
Conioselin $C_{21}H_{20}O_8$ (400.39). White acicular crystals, mp 119~120°C. Source: GAO BEN *Ligusticum sinense*, XIN JIANG GAO BEN *Conioselinum vaginatum*. Ref: 9, 333.

**3991 Konkurchine**

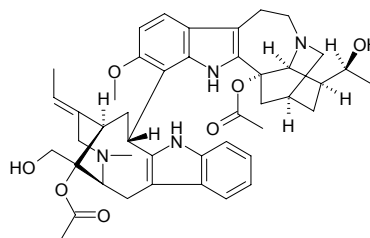
[3792-62-9] $C_{21}H_{32}N_2$ (312.50). mp 153°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**3992 Conodiparine A**

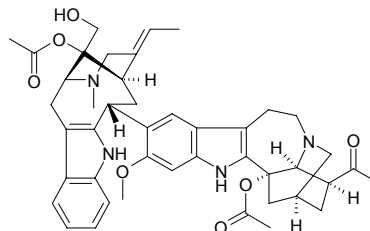
$C_{44}H_{54}N_4O_7$ (750.94). Light yellow amorphous powder, $[\alpha]_D = -34^\circ$ ($c = 0.71$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0581%). Ref: 4673.

**3993 Conodiparine B**

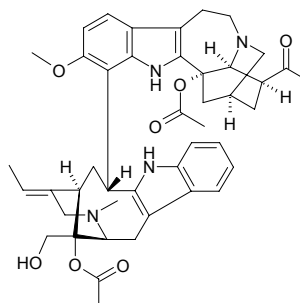
$C_{44}H_{54}N_4O_7$ (750.94). Light yellow amorphous powder, $[\alpha]_D = -64^\circ$ ($c = 0.93$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.168%). Ref: 4673.

**3994 Conodiparine C**

$C_{44}H_{52}N_4O_7$ (748.93). Light yellow amorphous powder, $[\alpha]_D = -27^\circ$ ($c = 0.50$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0012%). Ref: 4673.

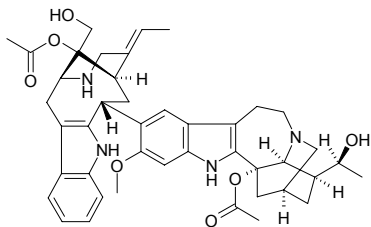
**3995 Conodiparine D**

$C_{44}H_{52}N_4O_7$ (748.93). Light yellow amorphous powder, $[\alpha]_D = -42^\circ$ ($c = 0.90$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0028%). Ref: 4673.

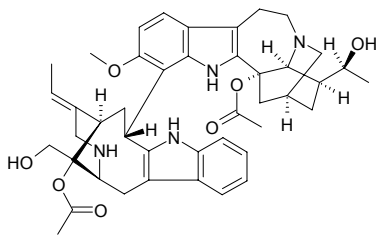


3996 Conodiparine E

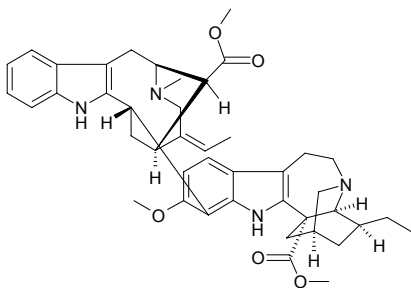
$C_{43}H_{52}N_4O_7$ (736.92). Light yellow amorphous powder, $[\alpha]_D = -101^\circ$ ($c = 0.07$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0022%). Ref: 4673.

**3997 Conodiparine F**

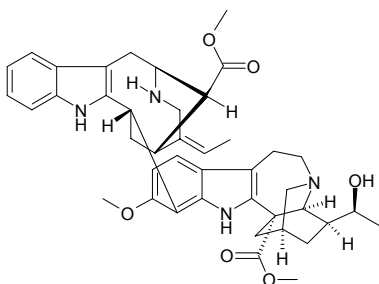
$C_{43}H_{52}N_4O_7$ (736.92). Light yellow amorphous powder, $[\alpha]_D = -73^\circ$ ($c = 0.32$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0089%). Ref: 4673.

**3998 Conodurine**

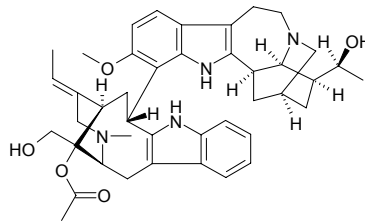
$C_{43}H_{52}N_4O_5$ (704.92). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. Ref: 3403.

**3999 Conodurinine**

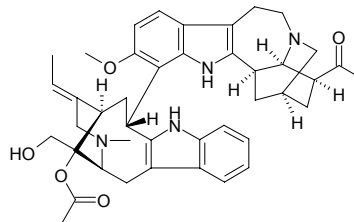
$C_{42}H_{50}N_4O_6$ (706.89). Light yellowish oil, $[\alpha]_D = -55^\circ$ ($c = 0.47$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. Ref: 3403.

**4000 Conodutarine A**

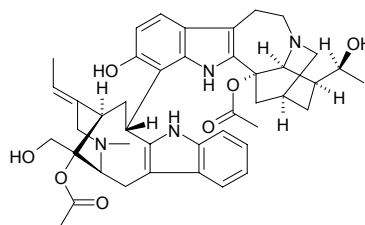
$C_{42}H_{52}N_4O_5$ (692.91). Light yellowish oil, $[\alpha]_D = -51^\circ$ ($c = 0.18$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0007%). Ref: 4673.

**4001 Conodutarine B**

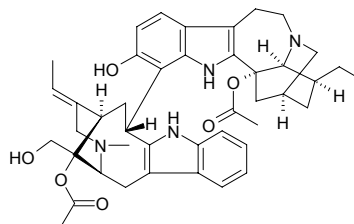
$C_{42}H_{50}N_4O_5$ (690.89). Light yellowish oil, $[\alpha]_D = -45^\circ$ ($c = 0.14$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0008%). Ref: 4673.

**4002 Cononitarine A**

$C_{43}H_{52}N_4O_7$ (736.92). Light yellowish oil, $[\alpha]_D = -52^\circ$ ($c = 0.11$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0002%). Ref: 4673.

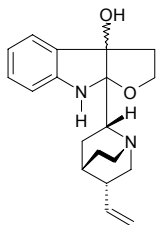
**4003 Cononitarine B**

$C_{43}H_{52}N_4O_6$ (720.92). Light yellowish oil, $[\alpha]_D = -43^\circ$ ($c = 0.10$, $CHCl_3$). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa* (leaf: yield = 0.0001%). Ref: 4673.

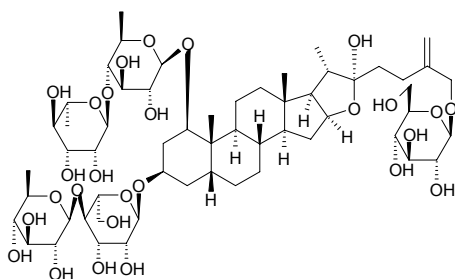


4004 Conquinamine

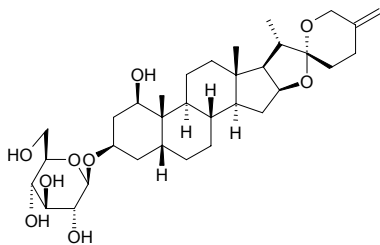
Epiquinamine [464-86-8] $C_{19}H_{24}N_2O_2$ (312.42). mp 121°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**4005 Convallamarin**

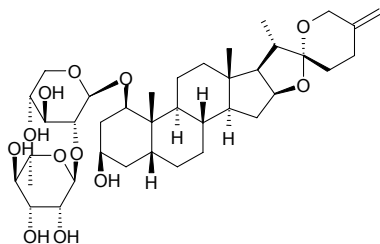
[52591-05-6] $C_{57}H_{94}O_{27}$ (1211.37). Pharm: Antibacterial; antifungal; cardiogenic (cardiac glycoside); hemolytic. Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. Ref: 6, 658.

**4006 Convallamarogen-3-O-β-D-glucopyranoside**

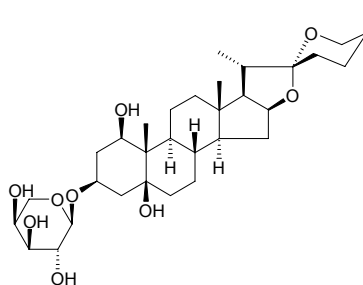
$C_{33}H_{52}O_9$ (592.78). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**4007 Convallamarogen-1-O-α-L-rhamnopyranosyl(1→2)-β-D-xylopyranoside**

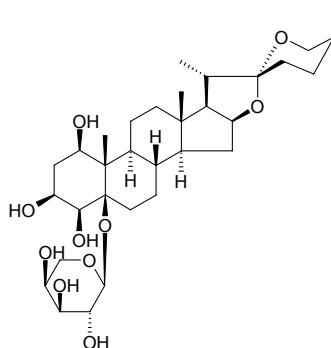
$C_{38}H_{60}O_{12}$ (708.89). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**4008 Convallasaponin A**

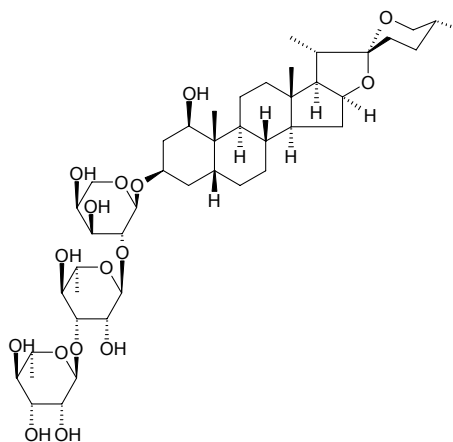
[19316-94-0] $C_{32}H_{52}O_9$ (580.77). mp 238–240°C. Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**4009 Convallasaponin B**

[19317-00-1] $C_{32}H_{52}O_{10}$ (596.77). mp 273–274°C. Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**4010 Convallasaponin C**

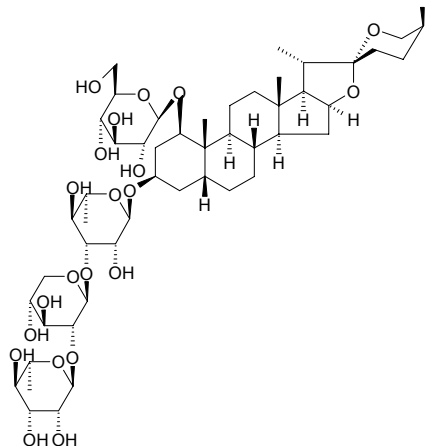
$C_{44}H_{72}O_{16}$ (857.05). Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.



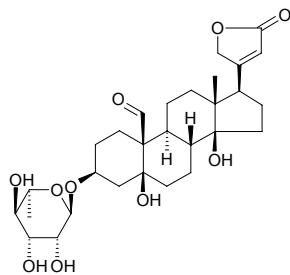
4011 Convallasaponin D

[16962-99-5] C₅₀H₈₂O₂₁ (1019.20). mp 264–265°C. Source: LING LAN

Convallaria keiskei [Syn. *Convallaria majalis*]. Ref: 6.

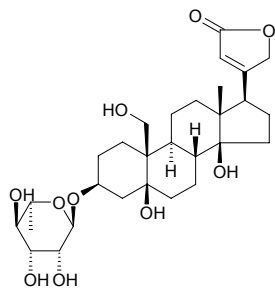
**4012 Convallatoxin**

Convallaton; Corglykon [508-75-8] C₂₉H₄₂O₁₀ (550.65). mp 235–242°C(dec), [α]_D²² = -1.7°±3° (MeOH), [α]_D²⁵ = -9.4°±3° (dioxane), soluble in ethanol, acetone, slightly soluble in chloroform, acetic ester, water, almost insoluble in ether, petroleum ether.^[5507] Source: FU SHOU CAO *Adonis amurensis* (root: content = 0.094%^[5508]), HEI GANG LIU *Periploca nigrescens*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 4, 6, 2498, 5507, 5508.

**4013 Convallatoxol**

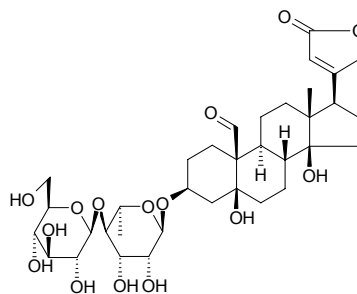
Perconval [3253-62-1] C₂₉H₄₄O₁₀ (552.67). mp 171–175°C. Source: LING

LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 4, 6.

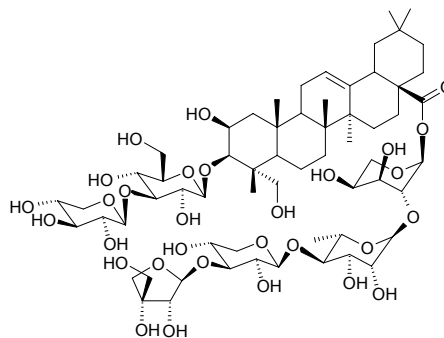
**4014 Convallaside**

Bogoroside [13473-51-3] C₃₅H₅₂O₁₅ (712.80). mp 201–204°C. Source: LING

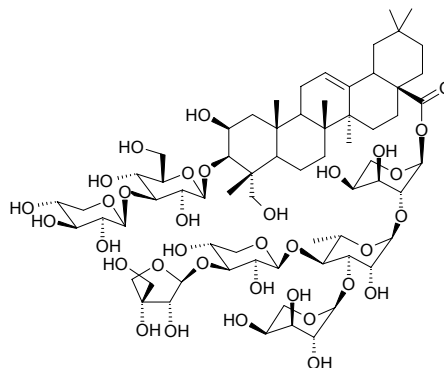
LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 4, 6.

**4015 Conyzasaponin A**

3-*O*-β-*D*-Xylopyranosyl-(1→3)-β-*D*-glucopyranosyl bayogenin 28-*O*-β-*D*-apiofuranosyl-(1→3)-β-*D*-xylopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranosylester C₆₂H₁₀₀O₃₀ (1325.47). White amorphous powder (MeOH), mp 219–220°C, [α]_D²⁵ = -13° (c = 0.94, MeOH). Source: KU HAO *Conyza blinii* (aerial parts: yield = 0.0025%dw). Ref: 3024.

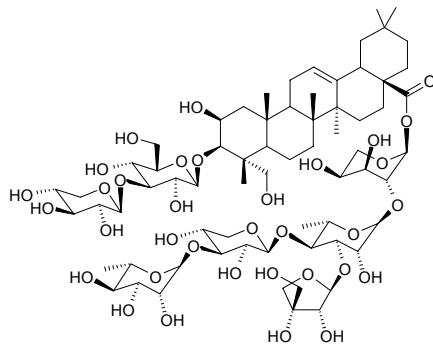
**4016 Conyzasaponin B**

3-*O*-β-*D*-Xylopyranosyl-(1→3)-β-*D*-glucopyranosyl bayogenin 28-*O*-β-*D*-apiofuranosyl-(→3)-β-*D*-xylopyranosyl-(1→4)-[α-*L*-arabinopyranosyl-(1→3)]-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranosylester C₆₇H₁₀₈O₃₄ (1457.59). White needles (MeOH), mp 233–234°C, [α]_D²⁵ = +6° (c = 0.63, MeOH). Source: KU HAO *Conyza blinii* (aerial parts: yield = 0.00020%dw). Ref: 3024.

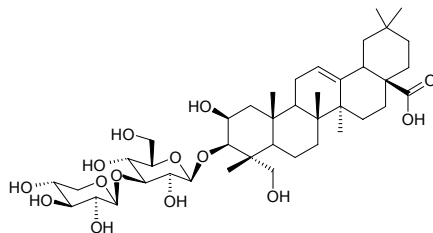


4017 Conyzasaponin C

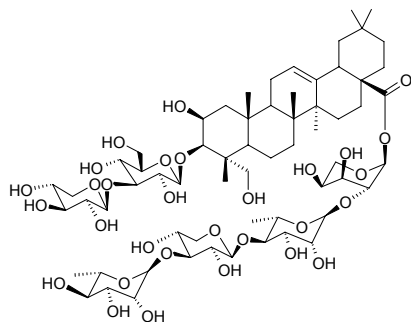
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl bayogenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₈H₁₁₀O₃₄ (1471.61). White needles (MeOH), mp 225–226°C, $[\alpha]_D^{25} = -20^\circ$ ($c = 0.59$, MeOH). Source: KU HAO *Conyza blinii* (aerial parts: yield = 0.00018%dw). Ref: 3024.

**4018 Conyzasaponin G**

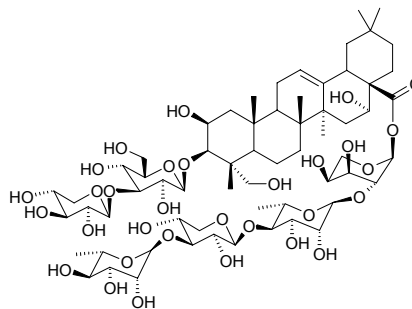
Bayogenin 3-*O*- β -*D*-xylopyranosyl- (1 \rightarrow 3)- β -*D*-glucopyranoside C₄₁H₆₆O₁₄ (782.97). White amorphous powder (MeOH), mp 214–216°C. Source: KU HAO *Conyza blinii* (aerial parts: yield = 0.00008%dw). Ref: 3024.

**4019 Conyzasaponin I**

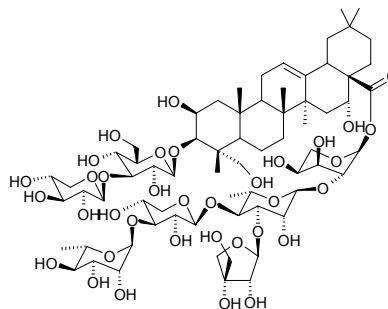
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₅H₁₀₂O₃₀ (1339.5). White amorphous solid, mp 240–242, $[\alpha]_D^{23} = -26.7^\circ$ ($c = 1.14$, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

**4020 Conyzasaponin J**

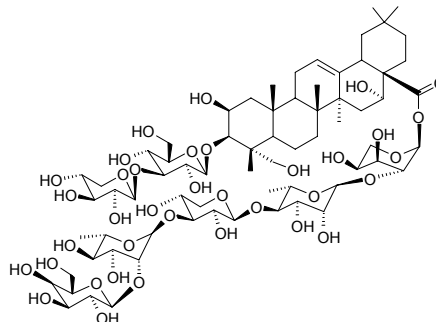
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₃H₁₀₂O₃₁ (1355.5). White amorphous solid, mp 236–238, $[\alpha]_D^{20} = -41.4^\circ$ ($c = 0.86$, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

**4021 Conyzasaponin K**

3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₈H₁₁₀O₃₅ (1487.61). White amorphous solid, mp 237–239, $[\alpha]_D^{20} = -56.5^\circ$ ($c = 0.76$, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

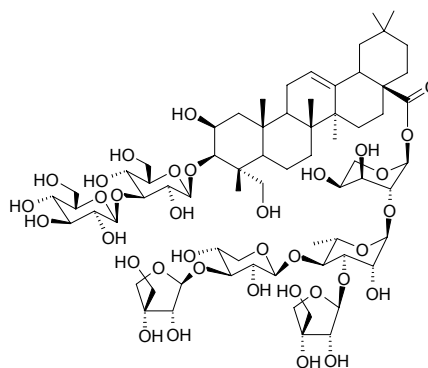
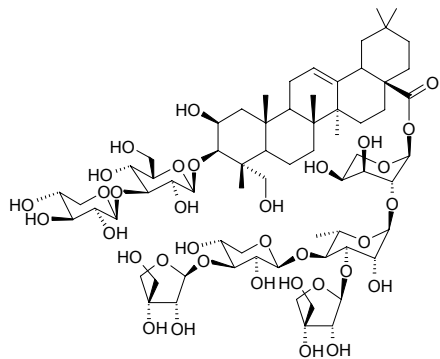
**4022 Conyzasaponin L**

3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- β -*D*-galactopyranosyl-(1 \rightarrow 2)- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₉H₁₁₂O₃₆ (1517.64). White amorphous solid, mp 236–238, $[\alpha]_D^{20} = -33.6^\circ$ ($c = 1.08$, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.



4023 Conyzasaponin M

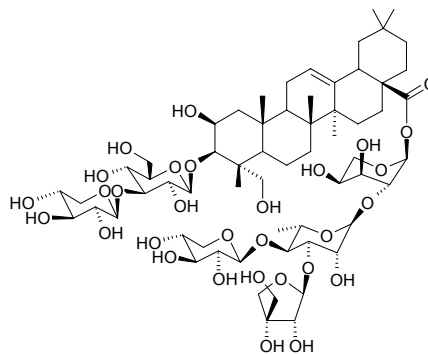
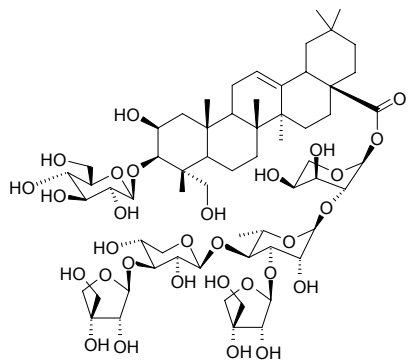
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₇H₁₀₈O₃₄ (1457.59). White needles (MeOH), mp 236–238, [α]_D²⁰ = –42.5° (*c* = 0.36, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

**4026 Conyzasaponin P**

3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₂H₁₀₀O₃₀ (1325.47). White amorphous solid, mp 243–245, [α]_D²⁰ = –30.4° (*c* = 0.51, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

4024 Conyzasaponin N

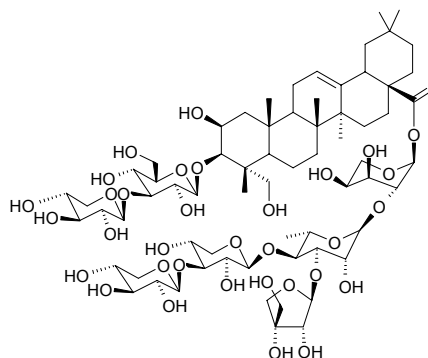
3-*O*- β -*D*-Glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₂H₁₀₀O₃₀ (1325.47). White needles (MeOH), mp 231–233, [α]_D²⁰ = –42.3° (*c* = 0.36, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

**4027 Conyzasaponin Q**

3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₇H₁₀₈O₃₄ (1457.59). White needles (MeOH), mp 242–244, [α]_D²⁰ = –34.2° (*c* = 1.26, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

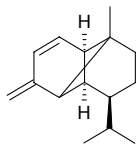
4025 Conyzasaponin O

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester C₆₈H₁₁₀O₃₅ (1487.61). White needles (MeOH), mp 245–247, [α]_D²⁰ = –38.6° (*c* = 0.17, methanol). Source: KU HAO *Conyza blinii* (aerial parts). Ref: 4738.

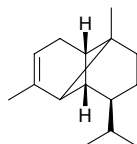


4028 Copadiene

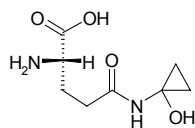
[27597-38-2] C₁₅H₂₂ (202.34). bp (+) 130–140°C/1mmHg. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**4029 α-Copaene**

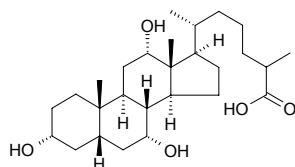
[3856-25-5] C₁₅H₂₄ (204.36). Pharm: Antibacterial; antifungal; cardiotoxic (cardiac glycoside); diuretic (rat, amount of urine up to 300%); hemolytic (strongest); sedative (rat, inhibits spontaneous movement); MLD (frog iv) = 0.3mg/kg. Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FU JU *Citrus tangemna*, HONG CHAI HU *Bupleurum scorzonrifolium*, HOU PO *Magnolia officinalis*, HUANG HUA HAO *Artemisia annua*, LV CAO *Humulus japonicus* [Syn. *Humulus scandens*], MU HAO *Artemisia japonica*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHENG JIANG *Zingiber officinale*, ZHU JU *Citrus erythroa*. Ref: 2, 658, 660.

**4030 Coprine**

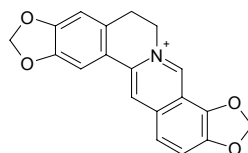
[58919-61-2] C₈H₁₄N₂O₄ (202.21). Pharm: Interferes in metabolism of alcohol. Source: GUI GAI *Coprinus atramentarius*. Ref: 658.

**4031 Coprocholic acid**

3α,7α,12α-Trihydroxy coprostanic acid [23740-14-9] C₂₇H₄₆O₅ (450.66). mp 180–182°C, mp 174–176°C. Source: CHEN DONG CAI LU ZHI *Brassica chinensis*, QING WA DAN *Rana nigromaculata*; *Rana plancyi*. Ref: 6.

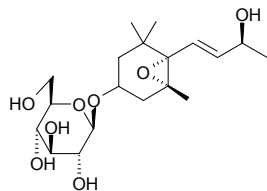
**4032 Coptisine**

[3486-66-6] C₁₉H₁₄NO₄⁺ (320.33). Pharm: Antimicrobial. Source: BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.332%)^[5508], BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.057%)^[5508], CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.01%)^[5508], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], DI TANG CAO *Hypecoum japonicum*, DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: content = 0.02%)^[5508], DUAN E HUANG LIAN *Coptis chinensis* var. *brevisepala* (rhizome: content = 1.31%)^[5508], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.013%)^[5508], E MEI YE HUANG LIAN *Coptis omeiensis* (rhizome: content = 1.97%)^[5508], GU LIN YE LIAN *Coptis gulinensis* (rhizome: content = 1.11%)^[5508], HE BAO MU DAN GEN *Dicentra spectabilis*, HUA NAN GONG LAO MU *Mahonia japonica*, HUA NAN GONG LAO YE *Mahonia japonica*, HUANG LIAN *Coptis chinensis* (rhizome: content scope = 1.5%–2.2%)^[5501], mean content = 2.06%^[5508], HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.031%)^[5508], JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content = 0.10%)^[5508], JU HUA HUANG LIAN *Corydalis pallida*, MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.02%)^[5508], RI BEN HUANG LIAN *Coptis japonica*, SAN JIAO YE HUANG LIAN *Coptis deltoidea* (rhizome: mean content = 1.60%)^[5508], XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.01%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAN E HUANG LIAN *Coptis linearisepala* (rhizome: content = 1.73%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*] (rhizome: mean content of 2 origins = 0.044%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508], YUN NAN HUANG LIAN *Coptis teetoides* [Syn. *Coptis teeta*] (rhizome: mean content = 1.54%)^[5508], ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 2, 658, 660, 5501, 5508.

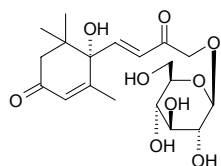


4033 Corchoionoside A

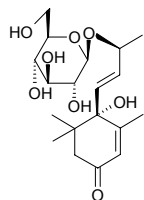
$C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{24} = -55^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**4034 Corchoionoside B**

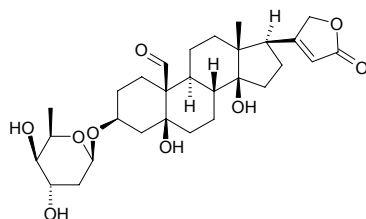
$C_{19}H_{28}O_9$ (400.43). Source: HUANAN WU ZHU YU *Evodia austrosinensis*. Ref: 5052.

**4035 Corchoionoside C**

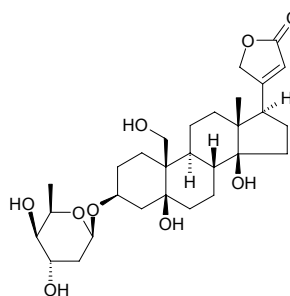
$C_{19}H_{30}O_8$ (386.45). Amorphous substance, $[\alpha]_D^{20} = +31.2^\circ$ ($c = 2.0$, MeOH). Pharm: Antibacterial inactive (*Helicobacter pylori* NCTC11637, MIC > 200 $\mu\text{g/mL}$; NCTC11916, MIC > 200 $\mu\text{g/mL}$; OCO1, MIC > 200 $\mu\text{g/mL}$; control Hinokitiol (Nat. or Syn.), MIC = 100, 100, 50 $\mu\text{g/mL}$, respectively) [4477]. Source: LAO SHU GUA *Capparis spinosa*, OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). Ref: 1998, 4477.

**4036 Corchoroside A**

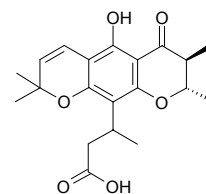
[508-76-9] $C_{29}H_{42}O_9$ (534.65). mp 188~190°C. Pharm: Cardiotonic (cardiac glycoside); bidirectional action to blood vessel (rbt ear, dilates at low concentration and contracts at high concentration); diuretic (rbt); low toxin; reduces symptoms of myocarditis (rbt) and prevents development of cardiac muscle sclerosis; sedative. Source: FU SHOU CAO *Adonis amurensis*, GUI ZHU TANG JIE *Erysimum cheiranthoides*, HUANG MA YE *Corchorus capsularis*, HUANG MA ZI *Corchorus capsularis*, MENG GU CE JIN ZHAN HUA *Adonis mongolica*. Ref: 4, 6, 658.

**4037 Corchorosol A**

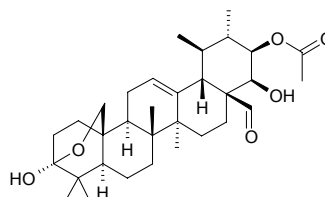
$C_{29}H_{44}O_9$ (536.67). mp 199~201°C. Source: HUANG MA YE *Corchorus capsularis*. Ref: 6.

**4038 Cordato-oblongic acid**

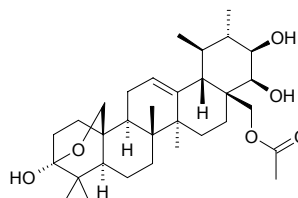
$C_{20}H_{24}O_6$ (360.41). Source: CHANG YUAN XIN XING HU TONG *Calophyllum cordato-oblongum*. Ref: 2280.

**4039 Cordiaketal A**

3 β ,25-Epoxy-21 β -acetoxo-3 α ,22 β -dihydroxyurs-12-en-28-al $C_{32}H_{48}O_6$ (528.74). Colorless needles, mp 204~208°C, $[\alpha]_D = +181.7^\circ$ ($c = 0.5$, MeOH). Pharm: Anti-androgenic (testosterone 5 α -reductase inhibitor, 50 $\mu\text{g/mL}$, InRt = 70.57%, control Glabridine, 50 $\mu\text{g/mL}$, InRt = 48.20%) [4106]. Source: DUO SUI PO BU MU *Cordia multispicata* (leaf). Ref: 4106.

**4040 Cordiaketal B**

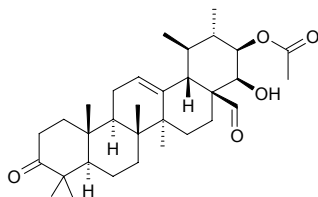
3 β ,25-Epoxy-28-acetoxo-3 α ,21 β ,22 β -trihydroxyurs-12-ene $C_{32}H_{50}O_6$ (530.75). Amorphous powder, $[\alpha]_D = +120.0^\circ$ ($c = 0.8$, MeOH). Pharm: Anti-androgenic (testosterone 5 α -reductase inhibitor, 50 $\mu\text{g/mL}$, InRt = 70.75%, control Glabridine, 50 $\mu\text{g/mL}$, InRt = 48.20%) [4106]. Source: DUO SUI PO BU MU *Cordia multispicata* (leaf). Ref: 4106.



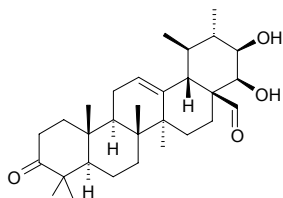
4041 Cordianal A

21 β -Acetoxy-22 β -hydroxy-3-oxours-12-en-28-al C₃₂H₄₈O₅ (512.74).

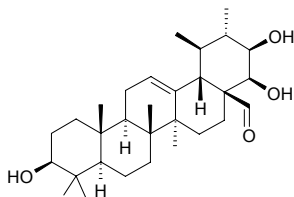
Amorphous powder. **Pharm:** Anti-androgenic (testosterone 5 α -reductase inhibitor, 100 μ g/mL, InRt = 67.57%, control Glabridine, 100 μ g/mL, InRt = 90.50%). **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf). **Ref:** 4106.

**4042 Cordianal B**

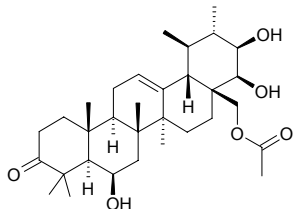
21 β ,22 β -Dihydroxy-3-oxours-12-en-28-al C₃₀H₄₆O₄ (470.70). Colorless needles, mp 251–254°C (MeOH). **Pharm:** Anti-androgenic (testosterone 5 α -reductase inhibitor, 100 μ g/mL, InRt = 18.87%, control Glabridine, 100 μ g/mL, InRt = 90.50%). **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf). **Ref:** 4106.

**4043 Cordianal C**

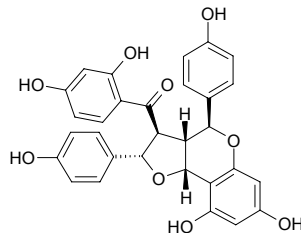
3 β ,21 β ,22 β -Trihydroxyurs-12-en-28-al C₃₀H₄₈O₄ (472.71). Amorphous powder. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf). **Ref:** 4106.

**4044 Cordianone**

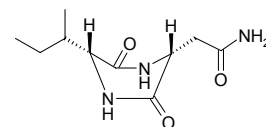
28-Acetoxy-6 β ,21 β ,22 β -trihydroxy-3-oxours-12-ene C₃₂H₅₀O₆ (530.75). Amorphous powder. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf). **Ref:** 4106.

**4045 Cordigol**

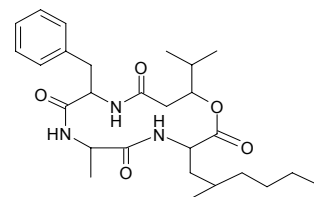
[117458-38-5] C₃₀H₂₄O₉ (528.52). **Source:** CHANG E JIN LIAN MU PI *Ochna macrocalyx*, SANG DAO BU SHI MU *Brackenridgea zanguebarica*. **Ref:** 5372.

**4046 Cordycedipeptide A**

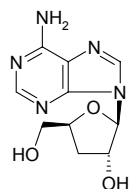
3-Acetamino-6-isobutyl-2,5-dioxopiperazine C₁₀H₁₇N₃O₃ (227.27). White amorphous powder (MeOH), mp 126°C, [α]_D²⁰ = -70.25° (c = 0.8, MeOH). **Pharm:** Cytotoxic (L-929, IC₅₀ = 6.30 μ g/mL, A375, IC₅₀ = 9.16 μ g/mL, HeLa, IC₅₀ = 61.10 μ g/mL, control 5-FU, IC₅₀ = 6.37 μ g/mL, 4.69 μ g/mL, 12.71 μ g/mL, respectively). **Source:** DONG CHONG XIA CAO *Cordyceps sinensis* (whole herb). **Ref:** 4462.

**4047 Cordyceptide A**

C₂₇H₄₁N₃O₅ (487.64). White acicular crystals mp 273–274°C. **Source:** REN GONG YONG CHONG CAO *Cordyceps militaris* cv. **Ref:** 858.

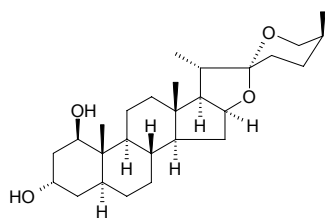
**4048 Cordycepin**

[73-03-0] C₁₀H₁₃N₅O₃ (251.25). mp 225–226°C. **Pharm:** Antineoplastic (mus, EAC, 15–20mg/kg ip, extends survival time); cytotoxic (KB, L₁₂₁₀); antimalarial (*Plasmodium falciparum* K1, IC₅₀ = 4.5 μ g/mL; control Dihydroartemisinin, IC₅₀ = 1.2ng/mL)^[4784]; antibacterial (*Bacillus subtilis* and *Mycobacterium tuberculosis*); antiviral (inhibits biosynthesis of RNA). **Source:** DONG CHONG XIA CAO *Cordyceps sinensis*, YANG CONG *Allium cepa*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.458%)^[5512], YONG CHONG CAO *Cordyceps militaris*. **Ref:** 6, 658, 4784, 5512.

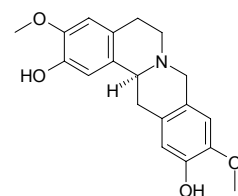


4049 Cordylagenin

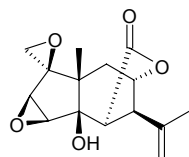
[54165-35-4] C₂₇H₄₄O₄ (432.65). mp (–) 216°C. Source: JIAN YE TIE SHU YE *Cordyline stricta*. Ref: 6.

**4050 Coreximine**

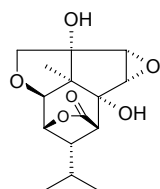
[483-45-4] C₁₉H₂₁NO₄ (327.38). mp (–) 262°C, (±) 233–240°C. Source: ZI HUA YU DENG CAO *Corydalis incisa*, YA PIAN *Papaver somniferum*. Ref: 6.

**4051 Coriamyrtin**

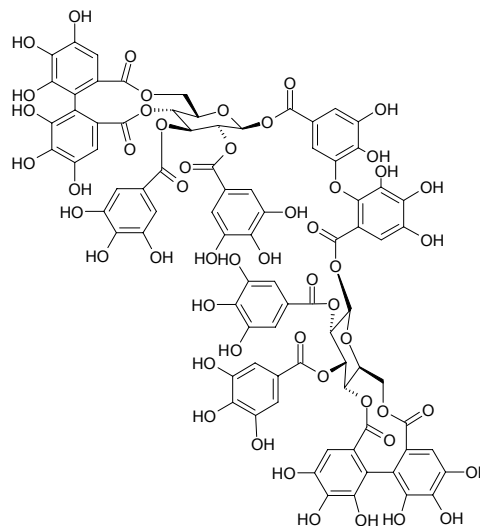
[2571-86-0] C₁₅H₁₈O₅ (278.31). mp 229–230°C. Pharm: Causes epilepsy (rat, 1mg/kg, im for 5.5–6.5 months, epilepsy persistent); eclamptogenic (rbt or rat, 3mg/kg im). Source: BAI LI XIANG YE MA SANG *Coriaria thymifolia*, DI ZHONG HAI MA SANG *Coriaria myrtifolia* (the compound was first isolated from the plant by Riban in 1863)^[5505], MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*], MA SANG YE *Coriaria sinica* [Syn. *Coriaria nepalensis*], RI BEN MA SANG *Coriaria japonica*. Ref: 4, 6, 413, 658, 5505.

**4052 Corianin**

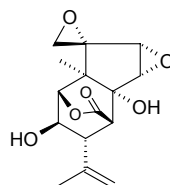
C₁₅H₂₀O₆ (296.32). Source: RI BEN MA SANG *Coriaria japonica* (seed). Ref: 4497.

**4053 Coriariin A**

[89871-78-3] C₈₂H₅₈O₅₂ (1875.35). Pharm: Antineoplastic. Source: RI BEN MA SANG *Coriaria japonica*. Ref: 658.

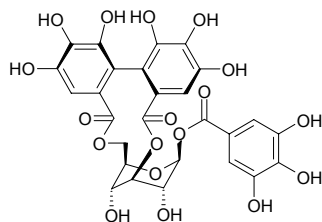
**4054 Coriarin**

C₁₅H₁₈O₆ (294.31). Colorless prisms (MeOH), mp 203–204°C, [α]_D²² = –34.5° (c = 0.116, MeOH). Source: RI BEN MA SANG *Coriaria japonica* (seed). Ref: 4497.

**4055 Corilagin**

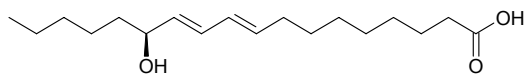
[23094-69-1] C₂₇H₂₂O₁₈ (634.47). Yellow, mp 211°C, mp 204–205°C. Pharm: Antihepatotoxin (*in vitro*); inhibits lipolysis (rat, fat cells, induced by adrenalin, hepatic cell microsome); TNF-α release inhibitor (BALB/3T3 cells, okadaic acid-stimulated, mean IC₅₀ = 76μmol/L)^[4416]; thrombolytic (rats, dose-dependent manner, 5mg/kg corilagin produces a nearly similar reperfusion rate to that of 20000U/kg of urokinase, whereas it produces a lower reocclusion rate than urokinase, inhibits PAI-1 activity and increases tPA activity)^[5500]; antibacterial (*Erwinia carotovora*, IZD = 20mm/100μg, control Quercetin sulfate, IZD = 21mm/10μg; *Staphylococcus aureus*, IZD = 12mm/100μg, Quercetin sulfate, IZD = 14mm/10μg; *Corynebacterium accolens*, IZD = 12mm/100μg, Quercetin sulfate, IZD = 28mm/10μg)^[5250]; antifungal (*Candida albicans*, IZD = 12mm/100μg, control Nystatin, IZD = 11mm/20μg)^[5250]; xanthine oxidase inhibitor (IC₅₀ = 72.9μg/mL, IC₅₀ > 100μmol/L; control Quercetin, IC₅₀ = 3.4μg/mL, IC₅₀ = 10μmol/L)^[5250]. Source: AN MO LE *Phyllanthus emblica* (fruit juice, branch and leaf)^[3094], BAI MU WU JIU *Sapium japonicum*, BI MA ZI *Ricinus communis*, DA YE

KU NUO NI *Cunonia macrophylla* (leaf), HE ZI *Terminalia chebula*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*], WU JIU MU GEN PI *Sapium sebiferum*, YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*, MAO GUO QI *Acer nikoense*, YE XIA ZHU *Phyllanthus urinaria*, *Acer* sp. Ref: 6, 658, 4416, 5250, 5500.



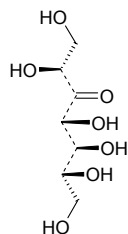
4056 (S)-Coriolic acid

$C_{18}H_{32}O_3$ (296.45). $[\alpha]_D^{20} = +4.7^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: COX-1 inhibitor ($IC_{50} = 2.1 \mu g/mL$, control *trans*-Resveratrol, $IC_{50} = 0.25 \mu g/mL$)^[5030]; COX-2 inhibitor ($IC_{50} = 0.14 \mu g/mL$, control *trans*-Resveratrol, $IC_{50} = 0.30 \mu g/mL$)^[5030]. Source: LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). Ref: 5030.



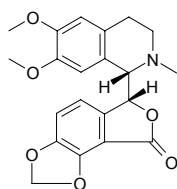
4057 Corioste

[13059-96-6] $C_7H_{14}O_7$ (210.19). mp 169~171°C. Source: MA SANG YE *Coriaria sinica* [Syn. *Coriaria nepalensis*]. Ref: 6.



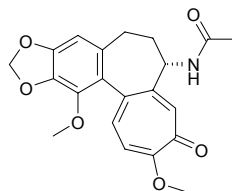
4058 Corlumine

[485-51-5] $C_{21}H_{21}NO_6$ (383.40). mp 159°C, $[\alpha]_D = +77^\circ$ (chloroform). Pharm: Uterine stimulant. Source: BEI ZI JIN *Corydalis sibirica*, XIE SHI ZI JIN *Corydalis sewerzowi*. Ref: 661.



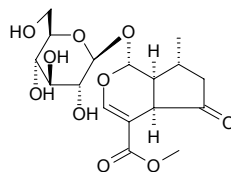
4059 Cornigerine

[6877-25-4] $C_{21}H_{21}NO_6$ (383.40). mp 268~270°C. Source: CAO BEI MU *Iphigenia indica*. Ref: 6.



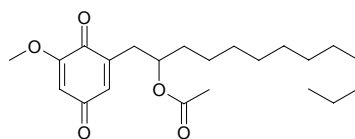
4060 Cornin

Verbenalin [548-37-8] $C_{17}H_{24}O_{10}$ (388.37). mp 182.2~182.8°C. Source: MA BIAN CAO *Verbena officinalis*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*]. Ref: 2, 6.



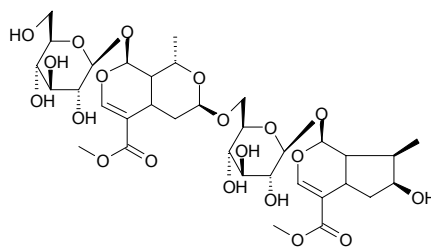
4061 Cornudentanone

$C_{22}H_{34}O_5$ (378.51). Pharm: Inhibits combination of leucocyte and its receptor. Source: XIAN CHI ZI JIN NIU *Ardisia cornudentata*. Ref: 658.



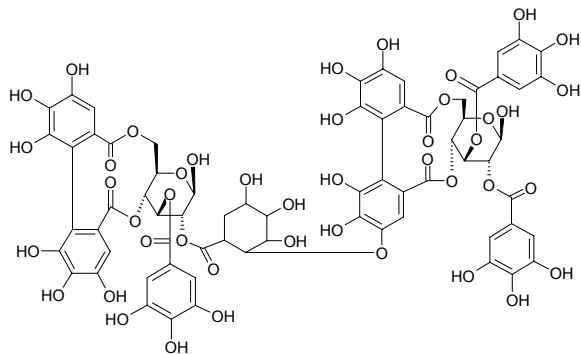
4062 Cornuside

$C_{34}H_{50}O_{20}$ (778.77). White amorphous powder, mp 135~138°C, $[\alpha]_D^{16.5} = -83.7^\circ$ ($c = 0.2$, methanol). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*]. Ref: 247.

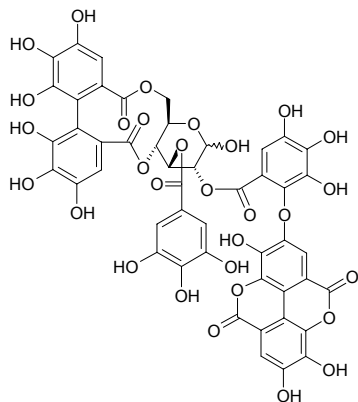


4063 Cornusiin A

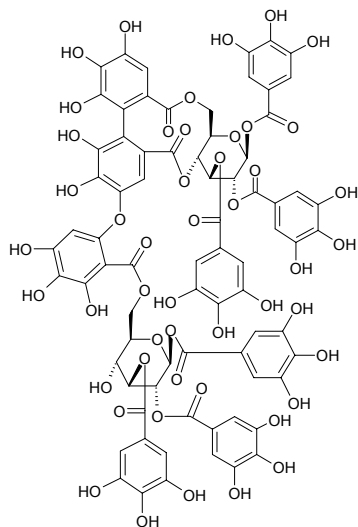
[95263-69-7] C₆₈H₅₆O₄₄ (1577.18). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 2.

**4064 Cornusiin B**

[95263-70-0] C₄₈H₃₀O₃₀ (1086.76). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 2.

**4065 Cornusiin G**

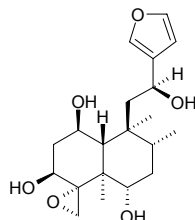
[131189-58-7] C₇₅H₅₆O₄₈ (1725.25). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 2.

**4066 Cornutin C**

C₂₀H₃₀O₆ (366.46). Amorphous white solid, $[\alpha]_D^{20} = -4^\circ$ ($c = 0.12$, MeOH).

Pharm: Antimalarial (antiplasmodial, poW strain of *Plasmodium falciparum*, IC₅₀ = 36.9 μmol/L, Dd2 strain of *Plasmodium falciparum*, IC₅₀ = 58.7 μmol/L).

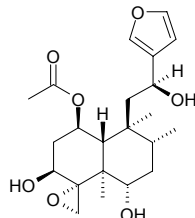
Source: ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. Ref: 3457.

**4067 Cornutin D**

C₂₂H₃₂O₇ (408.50). Colorless oil, $[\alpha]_D^{20} = -5^\circ$ ($c = 0.08$, MeOH). Pharm:

Antimalarial (antiplasmodial, poW strain of *Plasmodium falciparum*, IC₅₀ = 56.6 μmol/L, Dd2 strain of *Plasmodium falciparum*, IC₅₀ = 96.8 μmol/L).

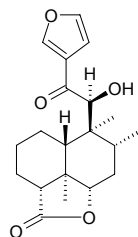
Source: ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. Ref: 3457.

**4068 Cornutin E**

C₂₀H₂₆O₅ (346.43). Colorless crystals, $[\alpha]_D^{20} = -75^\circ$ ($c = 0.30$, CHCl₃). Pharm:

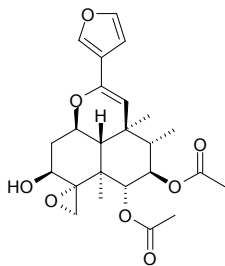
Antimalarial inactive (antiplasmodial, poW strain of *Plasmodium falciparum*, Dd2 strain of *Plasmodium falciparum*). Source: ZHONG JIAN DA YE KE

NU CAO *Cornutia grandifolia* var. *intermedia*. Ref: 3457.

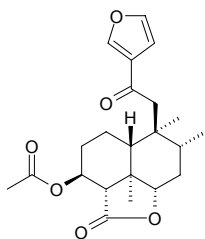


4069 Cornutin F

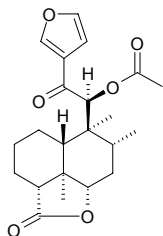
$C_{24}H_{30}O_8$ (446.50). Colorless crystals, $[\alpha]_D^{20} = +17^\circ$ ($c = 0.34$, $CHCl_3$). **Pharm:** Antimalarial inactive (antiplasmodial, poW strain of *Plasmodium falciparum*, Dd2 strain of *Plasmodium falciparum*). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4070 Cornutin G**

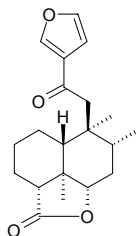
$C_{22}H_{28}O_6$ (388.46). Colorless oil, $[\alpha]_D^{20} = -2^\circ$ ($c = 0.29$, $CHCl_3$). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4071 Cornutin H**

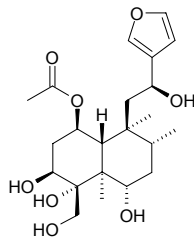
$C_{22}H_{28}O_6$ (388.46). Yellow crystals, $[\alpha]_D^{20} = -10^\circ$ ($c = 0.73$, $CHCl_3$). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4072 Cornutin I**

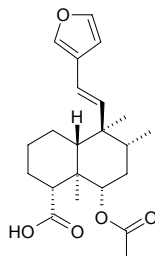
$C_{20}H_{26}O_4$ (330.43). Colorless crystals, $[\alpha]_D^{20} = +4^\circ$ ($c = 0.31$, $CHCl_3$). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4073 Cornutin J**

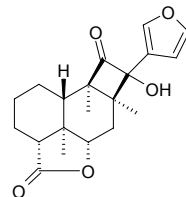
$C_{22}H_{30}O_8$ (426.51). White amorphous solid, $[\alpha]_D^{20} = +13^\circ$ ($c = 0.35$, $CHCl_3$). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4074 Cornutin K**

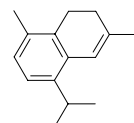
$C_{22}H_{30}O_5$ (374.48). Colorless oil. **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

**4075 Cornutin L**

$C_{20}H_{24}O_5$ (344.41). White amorphous solid, $[\alpha]_D^{20} = +35^\circ$ ($c = 0.39$, $CHCl_3$). **Source:** ZHONG JIAN DA YE KE NU CAO *Cornutia grandifolia* var. *intermedia*. **Ref:** 3457.

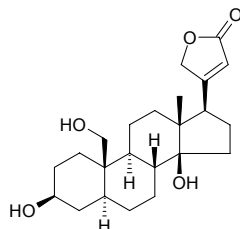
**4076 α -Corocalene**

1,6-Dimethyl-4-isopropyl-7,8-dihydro-naphthalene [20129-39-9] $C_{15}H_{20}$ (200.33). **Source:** PI JIU HUA *Humulus lupulus*, ZHANG MU *Cinnamomum camphora*. **Ref:** 6.

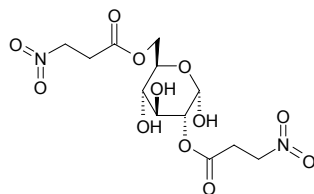


4077 Coroglaucigenin

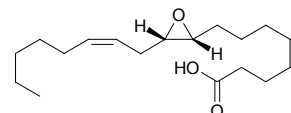
[468-19-9] C₂₃H₃₄O₅ (390.52). mp 249°C. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*. Ref: 6.

**4078 Coronarin**

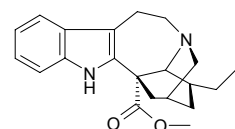
[63505-68-0] C₁₂H₁₈N₂O₁₂ (382.28). Pharm: Toxin. Source: SHI YONG HUANG QI *Astragalus cibarius*, LIAN XING HUANG QI *Astragalus falcatus*, WAN YAN HUANG QI *Astragalus flexuosus*. Ref: 658.

**4079 Coronaric acid**

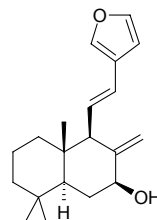
[16833-56-0] C₁₈H₃₂O₃ (296.45). Source: TONG HAO *Chrysanthemum coronarium*. Ref: 1521.

**4080 Coronaridine**

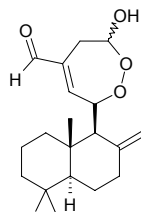
[467-77-6] C₂₁H₂₆N₂O₂ (338.45). Pharm: Analgesic; diuretic; estrogenic activity (very strong); inhibits flap and quiver (mus, caused by stress); anti-addictive (with side effects: tremor, cerebellar neurotoxicity and bradycardia; its congener 18-Methoxycoronaridine has anti-HIV-1 activity and anti-retroviral activity)^[4417]; antileishmanial (*Leishmania amazonensis*)^[4417]. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DAN BAN GOU YA HUA *Ervatamia divaricata*, ER QI GOU YA HUA *Ervatamia dichotoma*, GUAN ZHUANG GOU YA HUA *Ervatamia coronaria*. Ref: 2, 658, 4417.

**4081 Coronarin A**

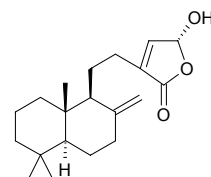
[119188-33-9] C₂₀H₂₈O₂ (300.44). Colorless acicular crystals, mp 100~101°C, [α]_D = +25.4° (c = 0.28, chloroform). Pharm: Cytotoxic (V-79, IC₅₀ = 1.65μg/mL). Source: TU QIANG HUO *Hedychium coronarium*, YUAN BAN JIANG HUA *Hedychium forrestii*. Ref: 322, 1133.

**4082 Coronarin B**

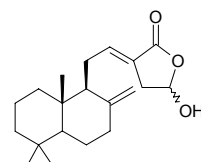
[119188-38-4] C₂₀H₃₀O₄ (334.46). Colorless oil, [α]_D = -43.1° (c = 0.14, chloroform). Pharm: Cytotoxic (V-79, IC₅₀ = 2.70μg/mL). Source: TU QIANG HUO *Hedychium coronarium*. Ref: 1133.

**4083 Coronarin C**

[119188-35-1] C₂₀H₃₀O₃ (318.46). Colorless oil, [α]_D = +34.9° (c = 0.13, chloroform). Pharm: Cytotoxic (V-79, IC₅₀ = 17.5μg/mL). Source: TU QIANG HUO *Hedychium coronarium*. Ref: 1133.

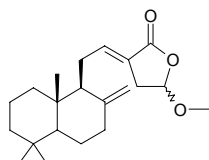
**4084 Coronarin D**

[119188-37-3] C₂₀H₃₀O₃ (318.46). Colorless solid, [α]_D = +10° (c = 0.83, chloroform). Pharm: Cytotoxic (V-79, IC₅₀ = 17.0μg/mL); β-hexosaminidase inhibitor (RBL-2H3 cells, 100μmol/L, InRt = (93.5±0.4)%, p<0.01)^[4221]. Source: TU QIANG HUO *Hedychium coronarium*. Ref: 931, 1133, 4221.

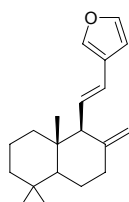


4085 Coronarin D methyl ether

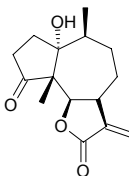
$C_{21}H_{32}O_3$ (332.49). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**4086 Coronarin E**

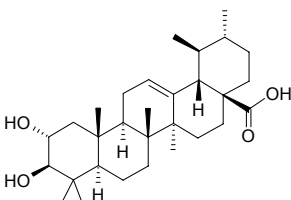
$C_{20}H_{28}O$ (284.45). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**4087 Coronopilin**

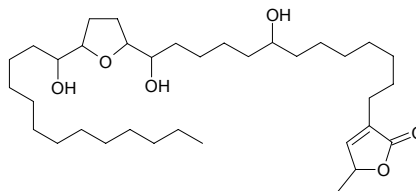
[2571-81-5] $C_{15}H_{20}O_4$ (264.32). Pharm: Dermatitic (causes contact dermatitis); insect antifeedant. Source: GUAN LUO SUI TUN CAO *Ambrosia psilostachya* var. *coronopifolia*, MEI GUO HAI MO JU *Hymenoclea salsola*, YIN JIAO JU *Parthenium hysterophorus* (flower), *Iva* sp. Ref: 658, 4489.

**4088 Corosolic acid**

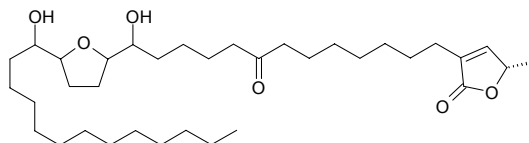
2 α -Hydroxyursolic acid [4547-24-4] $C_{30}H_{48}O_4$ (472.71). mp 242~245°C. Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2 μ mol/L, control Gentian violet, MLC = 6.2 μ mol/L)^[2579]. Source: CU YE XUAN GOU ZI *Rubus alceaefolius*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], SAN YE SHU WEI CAO *Salvia trijuga*, YI LANG QING LAN *Dracocephalum kotschyi*. Ref: 6, 420, 570, 2579.

**4089 Corosoline**

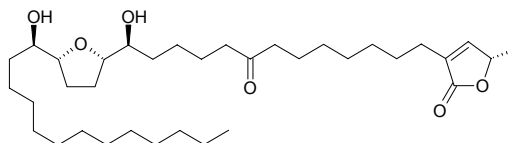
$C_{35}H_{64}O_6$ (580.90). Waxy solid, $[\alpha]_D^{25} = +82.8^\circ$ ($c = 0.34$, $CHCl_3$); white amorphous solid, $[\alpha]_D^{25} = +19^\circ$ ($c = 0.2$, MeOH). Pharm: Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 0.353 μ g/mL, Hep2,2,15, IC₅₀ = 0.234 μ g/mL; control Adriamycin, HepG₂, IC₅₀ = 0.241 μ g/mL, Hep2,2,15, IC₅₀ = 0.45 μ g/mL)^[3067]. Source: CI GUO FAN LI ZHI *Annona muricata* (seed)^[3067], JIN PING GE NA XIANG *Goniothalamus leiocarpus*. Ref: 420, 3067.

**4090 Corosolone**

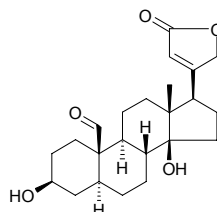
$C_{35}H_{62}O_6$ (578.88). Waxy solid, $[\alpha]_D^{25} = +11.7^\circ$ ($c = 0.19$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, Hep = G₂, IC₅₀ = 0.48 μ g/mL, Hep2,2,15, IC₅₀ = 0.284 μ g/mL; control Adriamycin, HepG₂, IC₅₀ = 0.241 μ g/mL, Hep2,2,15, IC₅₀ = 0.45 μ g/mL)^[3067]. Source: CI GUO FAN LI ZHI *Annona muricata* (leaf; yield = 0.00015%dw)^[4617], CI GUO FAN LI ZHI *Annona muricata* (seed). Ref: 3067, 4617.

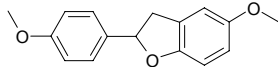
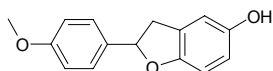
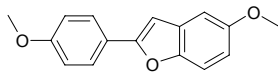
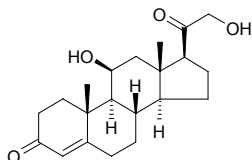
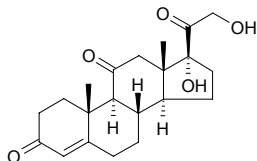
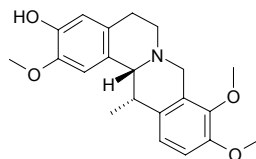
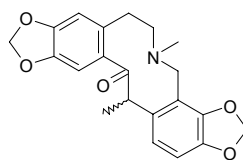
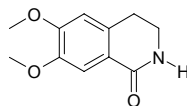
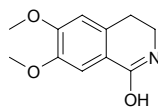
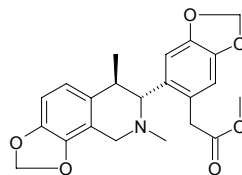
**4091 cis-Corosolone**

$C_{35}H_{62}O_6$ (578.88). White waxy solid, $[\alpha]_D^{25} = +13.6^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 0.165 μ g/mL, control Adriamycin, IC₅₀ = 0.241 μ g/mL; Hep2,2,15, IC₅₀ = 0.0476 μ g/mL, Adriamycin, IC₅₀ = 0.45 μ g/mL). Source: CI GUO FAN LI ZHI *Annona muricata* (leaf; yield = 0.00013%dw). Ref: 4617.

**4092 Corotoxigenin**

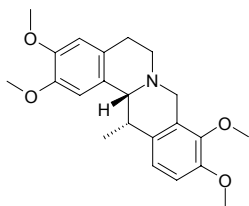
[468-20-2] $C_{23}H_{32}O_5$ (388.51). mp 221°C. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*. Ref: 6.



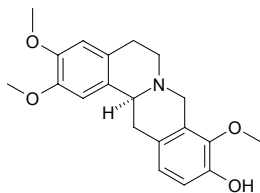
4093 Corsifuran A5-Methoxy-2-(4-methoxyphenyl)-2,3-dihydrobenzofuran C₁₆H₁₆O₃ (256.30).White solid. Source: GE ZHI HUA DI QIAN *Corsinia coriandrina*. Ref: 3888.**4094 Corsifuran B**5-Hydroxy-2-(4-methoxyphenyl)-2,3-dihydrobenzofuran C₁₅H₁₄O₃ (242.28).White solid. Source: GE ZHI HUA DI QIAN *Corsinia coriandrina*. Ref: 3888.**4095 Corsifuran C**5-Methoxy-2-(4-methoxyphenyl)-benzofuran C₁₆H₁₄O₃ (254.29). Off-whitesolid. Source: GE ZHI HUA DI QIAN *Corsinia coriandrina*. Ref: 3888.**4096 Corticosterone**11β,21-Dihydroxypregn-4-ene-3,20-dione [50-22-6] C₂₁H₃₀O₄ (346.47). mp177~179°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*.Ref: 6.**4097 Cortisone**11-Dehydro-17-hydroxycorticosterone [53-06-5] C₂₂H₃₀O₅ (374.48). mp230~231°C. Pharm: Antiallergic; anti-inflammatory (reduces permeability of capillary and blood cell walls); inhibits proliferation of neuroglia; promotes decomposition of protein to be converted to sugar; gastric secretion promotor.Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, ZI HE CHE*Homo sapiens*. Ref: 6, 658.**4098 (+)-Corybulbine**[518-77-4] C₂₁H₂₅NO₄ (355.44). Source: YAN HU SUO *Corydalis yanhusuo*[Syn. *Corydalis turtschaninovii* f. *Yanhusuo*]. Ref: 2.**4099 Corycavine**[521-87-9] C₂₁H₂₁NO₅ (367.41). mp (±) 218~219°C. Source: ZI HUA YUDENG CAO *Corydalis incisa*. Ref: 6.**4100 Corydaldine (tautomeric structure 1)**C₁₁H₁₃NO₃ (207.23). Source: BIAN FU GE GEN *Menispermum dauricum*, BILU ZHI XIAO BO *Berberis baluchistanica*, DUO GUO YI NAN MU*Enantia polycarpa*. Ref: 1521, 3792.**4101 Corydaldine (tautomeric structure 2)**C₁₁H₁₃NO₃ (207.23). Source: BIAN FU GE GEN *Menispermum dauricum*, BILU ZHI XIAO BO *Berberis baluchistanica*, DUO GUO YI NAN MU*Enantia polycarpa*. Ref: 1521, 3792.**4102 Corydalic acid methyl ester**C₂₂H₂₃NO₆ (397.43). mp 140~141°C. Source: ZI HUA YU DENG CAO*Corydalis incisa*. Ref: 6.

4103 (+)-Corydaline

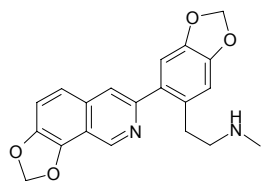
[518-69-4] C₂₂H₂₇NO₄ (369.46). mp (+) 135°C, [α]_D²⁰ = +311° (c = 0.8, ethanol), soluble in chloroform, moderate soluble in ether, slightly soluble in methanol, ethanol, insoluble in water.^[5507] **Pharm:** Analgesic (mus, hot plate model); uterine stimulant (rat, *in vitro*, *in vivo*); LD₅₀ (mus, iv) = 146mg/kg. **Source:** CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.06%^[5508]), CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.06%^[5508]), DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: content = 0.02%^[5508]), DUI YE YUAN HU SUO *Corydalis ledebouriana* (rhizome: content = 0.07%^[5508]), HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.06%^[5508]), XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.01%^[5508]), YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*] (rhizome: mean content of 8 origins = 0.103%^[5508]; content 0.049%^[5507]). **Ref:** 2, 4, 5501, 5507, 5508.

**4104 Corydalmine**

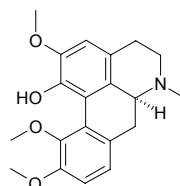
Kikemanine [30413-84-4] C₂₀H₂₃NO₄ (341.41). mp 177~178°C. **Pharm:** Antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, ED₅₀ = 2840ng/mL, ED₅₀ of chloroquine control = 1.3ng/mL, chloroquine-endured strain W2, ED₅₀ = 840ng/mL, ED₅₀ of chloroquine control = 11.2ng/mL). **Source:** JU HUA HUANG LIAN *Corydalis pallida*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*]. **Ref:** 6, 1756.

**4105 Corydamine**

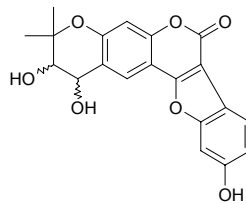
[49870-84-0] C₂₀H₁₈N₂O₄ (350.38). **Source:** ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6.

**4106 Corydine**

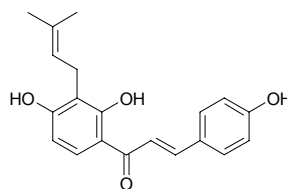
[476-69-7] C₂₀H₂₃NO₄ (341.41). mp (+) 149°C, (-) 149°C, (±) 165~167°C. **Pharm:** Antineoplastic; selective DNA-damaging activity (yeast assay: RS321NYCp50(gal), IC₅₀ = 27.5μg/mL; RS321NpRAD52(gal), IC₅₀ = 73.9μg/mL, control Camptothecin, IC₅₀ = 100μg/mL; RS321NpRAD52(glu), IC₅₀ = 22.5μg/mL, Camptothecin, IC₅₀ = 0.6μg/mL)^[5457]. **Source:** CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], DING KE LA QIAN JIN TENG *Stephania dinklagei*, HAI YING SU *Glaucium fimbriigerum*, LUO BO HUA LING CAO *Eschscholzia lobbii*, MA CHANG LI ZI JIN *Corydalis marschalliana*, XIAO JIAO HAI YING SU *Glaucium corniculatum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*]. **Ref:** 5, 6, 658, 5457.

**4107 Corylidin**

[63109-31-9] C₂₀H₁₆O₇ (368.35). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 2.

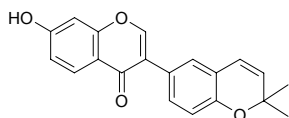
**4108 Corylifolinin**

[20784-50-3] C₂₀H₂₀O₄ (324.38). mp 154~156°C; 166~167°C. **Pharm:** Against heart failure (frog heart, caused by lactic acid); coronary vasodilator (gpg, rbt, cat and rat, *in vitro*, with high selectivity); stimulates heart (frog); enhances myocardial contractility (gpg, rat); cytotoxic (estrogen α receptor-binding assay)^[5038]; cytotoxic (estrogen β receptor-binding assay)^[5038]; aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]. **Source:** BU GU ZHI *Psoralea corylifolia*, GAN CAO *Glycyrrhiza uralensis*, GOU SHU *Broussonetia papyrifera*^[3090]. **Ref:** 4, 660, 2431, 3090, 5038.

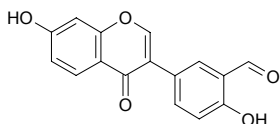


4109 Corylin

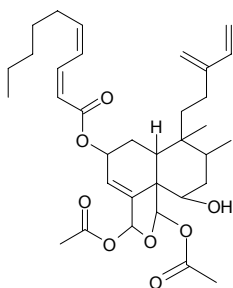
[53947-92-5] C₂₀H₁₆O₄ (320.35). Source: BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: mean content of 7 origins = 1.032%^[5508]). Ref: 2, 5508.

**4110 Corylinal**

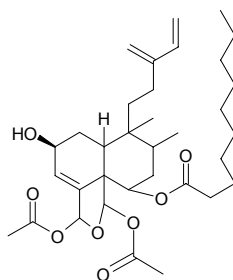
[65615-46-5] C₁₆H₁₀O₅ (282.26). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2, 545.

**4111 Corymbulosin A**

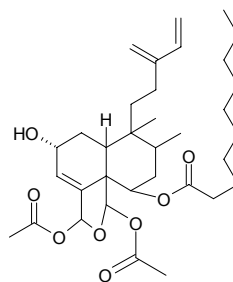
C₃₄H₄₈O₈ (584.76). Oily solid, [α]_D = -111° (c = 1.0, CHCl₃). Pharm: Cytotoxic (SF539, IC₅₀ = 0.6 μmol/L, LOX melanoma, IC₅₀ = 8 μmol/L). Source: *Laetia corymbulosa* (fruit). Ref: 5089.

**4112 Corymbulosin B**

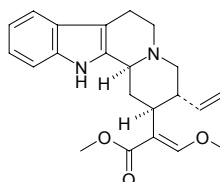
C₃₄H₅₂O₈ (588.79). [α]_D = +0.7° (c = 1.0, CHCl₃). Pharm: Cytotoxic (SF539, LOX melanoma). Source: *Laetia corymbulosa* (fruit). Ref: 5089.

**4113 Corymbulosin C**

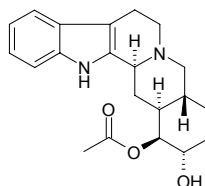
C₃₄H₅₂O₈ (588.79). [α]_D = -51° (c = 1.0, CHCl₃). Pharm: Cytotoxic (SF539, LOX melanoma). Source: *Laetia corymbulosa* (fruit). Ref: 5089.

**4114 Corynantheine**

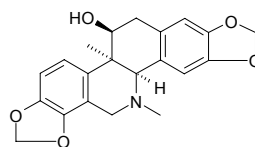
[18904-54-6] C₂₂H₂₆N₂O₃ (366.46). [α]_D²⁰ = +28.8° (MeOH). Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2, 1521.

**4115 Corynanthine**

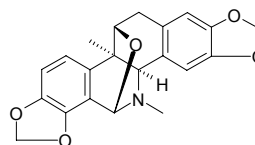
[483-10-3] C₂₁H₂₆N₂O₃ (354.45). Thick prismatic crystals (acetone), 225–226°C (dec), [α]_D¹⁹ = -85° (c = 0.5, pyridine). Pharm: Uterine stimulant. Source: YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 661.

**4116 Corynoline**

[18797-79-0] C₂₁H₂₁NO₅ (367.41). mp 216–217°C. Pharm: Antispirochetic; sedative (remarkable, using sulfate). Source: JIAN JU ZI JIN *Corydalis suaveolens* [Syn. *Corydalis sheareri*], KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 8 origins = 0.051%–0.261%, mean content = 0.150%^[5508]), ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6, 658, 5501, 5508.

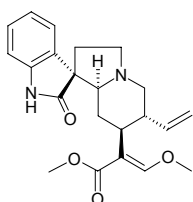
**4117 Corynoloxine**

[31470-65-2] C₂₁H₁₉NO₅ (365.39). mp 209–210°C. Source: ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

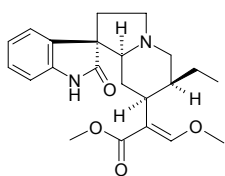


4118 Corynoxine

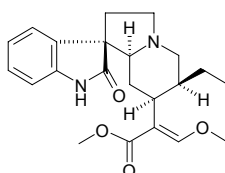
[630-94-4] $C_{22}H_{26}N_2O_4$ (382.46). mp 212~214°C. **Pharm:** CNS activity (significantly depresses locomotion response)^[5341]. **Source:** CHANG HUA GOU TENG *Uncaria longiflora*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HUA GOU TENG *Uncaria sinensis*, PO LUO ZHOU GOU TENG *Uncaria borneensis*, SUAN GOU TENG *Uncaria acida*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 2, 6, 5341.

**4119 Corynoxine**

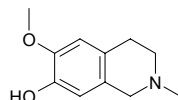
[6877-32-3] $C_{22}H_{28}N_2O_4$ (384.48). mp 166~168°C. **Pharm:** Hypnosis (100mg/kg, prolongation of thiopental-induced hypnosis)^[5341]. **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], DA YE GOU TENG *Uncaria macrophylla*, XIA GOU TENG *Uncaria attenuata*, XIN XING GOU TENG *Uncaria cordata*, *Uncaria kunstleri*, *Uncaria sterrophylla*. **Ref:** 2, 6, 660, 5341.

**4120 Corynoxine B**

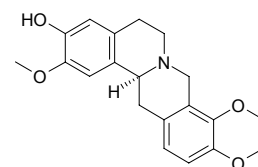
[17391-18-3] $C_{22}H_{28}N_2O_4$ (384.48). **Pharm:** Hypnosis (100mg/kg, prolongation of thiopental-induced hypnosis)^[5341]; CNS activity (significantly depresses locomotion response, may be central dopaminergic receptor antagonist)^[5341]. **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], DA YE GOU TENG *Uncaria macrophylla*, XIA GOU TENG *Uncaria attenuata*, XIN XING GOU TENG *Uncaria cordata*, *Uncaria kunstleri*, *Uncaria sterrophylla*. **Ref:** 2, 6, 660, 5341.

**4121 Corypalline**

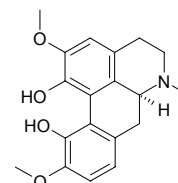
1,2,3,4-Tetrahydro-6-methoxy-7-hydroxy-2-methylisoquinoline [450-14-6] $C_{11}H_{15}NO_2$ (193.25). **Source:** CU GUO TANG SONG CAO *Thalictrum dasycarpum*, DA HONG YING SU *Papaver bracteatum*, JIN HUANG JIN *Corydalis aurea*, JU HUA HUANG LIAN *Corydalis pallida*, SHE GUO HUANG JIN *Corydalis ophiocarpa*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 1521.

**4122 Corypalmine**

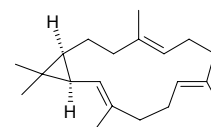
Tetrahydrojatrorrhizine [6018-40-2] $C_{20}H_{23}NO_4$ (341.41). mp (+) 235~236°C, (-) 230°C, (±) 215~217°C. **Source:** TU HUANG LIAN *Berberis julianae*, TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*], ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6, 660.

**4123 Corytuberine**

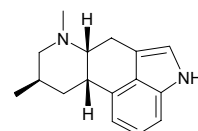
[517-56-6] $C_{19}H_{21}NO_4$ (327.38). mp (+) 240°C, (±) 242°C. **Source:** YA PIAN *Papaver somniferum*, MA TI YE *Caltha palustris*. **Ref:** 6, 660.

**4124 Cosbene**

$C_{20}H_{32}$ (272.48). **Pharm:** Antifungal. **Source:** BI MA ZI *Ricinus communis*. **Ref:** 658.

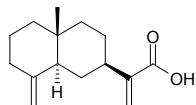
**4125 Costaclavine**

[436-41-9] $C_{16}H_{20}N_2$ (240.35). mp 182~184°C. **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6.

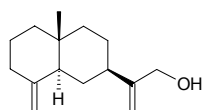


4126 Costic acid

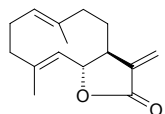
[3650-43-9] C₁₅H₂₂O₂ (234.34). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.0006%dw)^[4709], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], XIN JIANG LAN CI TOU *Echinops ritro*. Ref: 2, 660, 4709.

**4127 Costol**

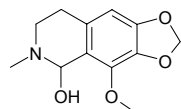
[65018-15-7] C₁₅H₂₄O (220.36). bp (+) 145°C/0.5mm (±) 90°C/0.2mmHg. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], MU BIE GEN *Momordica cochinchinensis*. Ref: 6.

**4128 Costunolide**

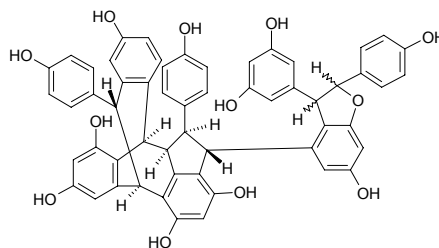
[553-21-9] C₁₅H₂₀O₂ (232.33). bp (+) 105–106°C. Pharm: Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 1.6μg/mL; HeLa, CD₅₀ = 2μg/mL; OVCAR-3, CD₅₀ = 2μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8μg/mL; HeLa, CD₅₀ = 5.2μg/mL; OVCAR-3, CD₅₀ = 3μg/mL; without significant antibacterial effect)^[4720]; antineoplastic; dermatitic (causes contact dermatitis); schistosomacide (against *martensite* schistosome); anti-inflammatory (NO production inhibitor)^[4415]. Source: CHUAN MU XIANG *Vladimiria souliei* [Syn. *Jurinea souliei*] (root: content scope of 4 origins = 0.158%~1.344%, mean content of = 0.864%^[5508]), MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: mean content of 13 origins = 0.92%^[5508]; 0.017%dw^[4720]), YUE GUI ZI *Laurus nobilis*, YUE XI MU XIANG *Vladimiria denticulata*. Ref: 2, 5, 658, 4415, 4720, 5501, 5508.

**4129 Cotarnine**

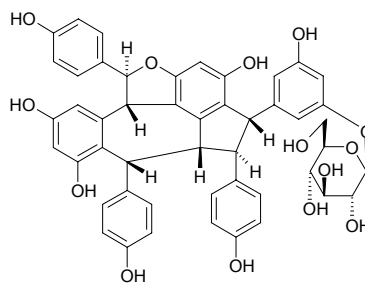
[82-54-2] C₁₂H₁₅NO₄ (237.26). mp 132–133°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

**4130 Cotylephenol C**

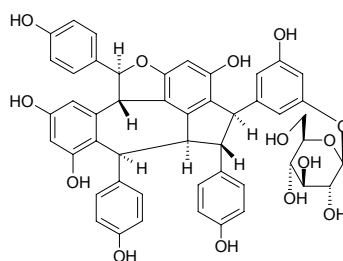
C₅₆H₄₂O₁₂ (906.95). Pale yellow solid, [α]_D = +78° (c = 0.1, MeOH). Source: *Cotylelobium lanceolatum* (stem: yield = 0.003%dw). Ref: 1819.

**4131 Cotyleloside A**

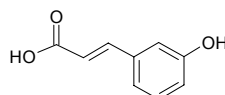
C₄₈H₄₂O₁₄ (842.86). Yellow solid, [α]_D = +106° (c = 0.1, MeOH). Source: *Cotylelobium lanceolatum* (stem: yield = 0.0008%dw). Ref: 1819.

**4132 Cotyleloside B**

C₄₈H₄₂O₁₄ (842.86). Yellow solid, [α]_D = -21° (c = 0.1, MeOH). Source: *Cotylelobium lanceolatum* (stem: yield = 0.0006%dw). Ref: 1819.

**4133 m-Coumaric acid**

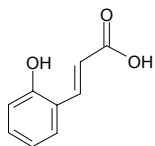
m-Hydroxycinnamic acid [14755-02-3] C₉H₈O₃ (164.16). mp 193°C. Source: LI MENG GEN *Citrus limonia*. Ref: 6.



4134 *o*-Coumaric acid

trans-o-Hydroxycinnamic acid [614-60-8] C₉H₈O₃ (164.16). mp 217°C (dec).

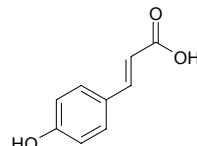
Source: HUI XIANG JING YE *Foeniculum vulgare*, NING MENG GEN *Citrus limon*, NING MENG YE *Citrus limon*, PEI LAN *Eupatorium fortunei*, PI HAN CAO *Melilotus suaveolens*, PI HAN CAO GEN *Melilotus suaveolens*, YANG CONG *Allium cepa*. **Ref:** 6.

**4135 *p*-Coumaric acid**

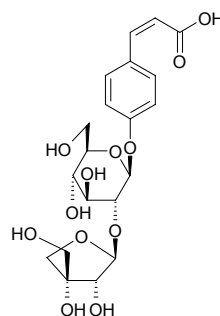
4-Hydroxycinnamic acid [501-98-4] C₉H₈O₃ (164.16). mp 171°C (dec).

Pharm: Antibacterial (gram-positive: *Staphylococcus aureus* ATCC25923, MIC = 6.4mg/mL; *Staphylococcus epidermidis* ATCC12228, MIC = 3.2mg/mL; *Streptococcus pyogenes* ATCC19615, MIC = 1.6mg/mL; *Streptococcus mutans* ATCC25175, MIC = 6.4mg/mL; *Enterococcus faecalis* ATCC33186, MIC = 6.4mg/mL; *Enterococcus gallinarum* CDC-42, MIC > 12.8mg/mL; gram-negative: *Salmonella typhimurium* ATCC14028, MIC > 12.8mg/mL; *Escherichia coli* ATCC25922, MIC = 6.4mg/mL; *Escherichia coli* O157:H7 ATCC43894, MIC = 1.6mg/mL; *Enterobacter cloacae* ATCC23350, MIC > 12.8mg/mL; *Klebsiella pneumoniae* ATCC13883, MIC > 12.8mg/mL; *Pseudomonas aeruginosa* ATCC27853, MIC > 12.8mg/mL; *Vibrio vulnificus* ATCC29307, MIC = 0.4mg/mL; *Citrobacter freundii* ATCC8090, MIC > 12.8mg/mL)^[5373]; antifungal; antihepatotoxin; cytotoxic (*in vitro*, P₈₁₅ and P₃₈₈); cytotoxic inactive (Colon26-L5, HT1080, 100μmol/L)^[3042]; antihypercholesterolemic; neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 10.0μmol/L, cell viability = (48.5±3.3)%, *p*<0.01, control MK-801, 10.0μmol/L, cell viability = (83.6±4.2)%, APV, 10.0μmol/L, cell viability = (43.6±3.2)%, XNQX, 10.0μmol/L, cell viability = (61.6±2.7)%)^[3967]; choleric (bile secretion promotor); phytoalexin^[4727]; LD₅₀ (mus, orl) = (1.1±0.3)g/kg. **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root), BEI YE JU *Chrysanthemum boreale*, BAN WEN AN *Eucalyptus maculata*, CI GUO FAN LI ZHI *Annona muricata*, DA CHE QIAN *Plantago major*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00056%)^[4706], HAI JIN SHA *Lygodium japonicum*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG GUA *Cucumis sativus* (leaf)^[4727], JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*], LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MA LING SHU *Solanum tuberosum*, DUAN CHI HUANG QI *Ephedra equisetina*, NAN FANG TU SI ZI *Cuscuta australis*, NING MENG *Citrus limon*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN FU RONG *Hibiscus taiwanensis*, XUAN FU HUA *Inula britannica*,

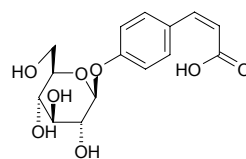
YE HEI YING *Prunus serotina* (peel), YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00124%)^[3042], ZI BAI PI *Catalpa ovata*, ZI DING XIANG *Syringa oblata*, occurs in many plants (as many glycosides. found by Bate-Smith in 48% of investigated dicotyledonous and 55% of monocotyledonous plants). **Ref:** 2, 589, 658, 660, 2529, 3042, 3967, 4502, 4706, 4727, 5373, 5501.

**4136 (Z)-4-Coumaric acid 4-O-β-D-apiofuranosyl-(1'→2')-O-β-D-glucopyranoside**

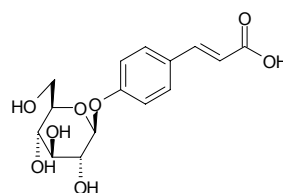
C₂₀H₂₆O₁₂ (458.42). Amorphous powder, [α]_D²⁵ = -68° (*c* = 0.8, H₂O). **Source:** LAO SHU LE *Acanthus ilicifolius* (aerial parts). **Ref:** 4392.

**4137 *cis-p*-Coumaric acid 4-O-β-D-glucopyranoside**

C₁₅H₁₈O₈ (326.31). Amorphous powder, [α]_D²⁵ = -52° (*c* = 0.7, H₂O). **Source:** LAO SHU LE *Acanthus ilicifolius* (aerial parts), SAN XIAO CAO *Trifolium repens* (flower). **Ref:** 3970, 4392.

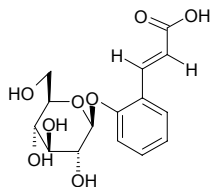
**4138 *trans-p*-Coumaric acid 4-O-β-D-glucopyranoside**

C₁₅H₁₈O₈ (326.31). **Source:** LV DOU *Onobrychis viciifolia* (leaf), SAN XIAO CAO *Trifolium repens* (flower). **Ref:** 3970, 5084.

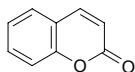


4139 *o*-Coumaric acid- β -D-glucoside

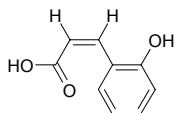
$C_{15}H_{18}O_8$ (326.31). mp 241°C. Source: PI HAN CAO *Melilotus suaveolens*. Ref: 6.

**4140 Coumarin**

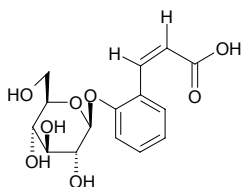
1,2-Benzopyrone [91-64-5] $C_9H_6O_2$ (146.15). Pharm: Antibacterial (*Bacillus coli*); antineoplastic; antifungal; causes bleeding and liver injury (rat and dog); hypoglycemic (rat); larvicide (housefly larva). Source: CU YE RONG *Ficus simplicissima*, DI ER CAO *Hypericum japonicum*, FEI JI CAO *Eupatorium odoratum*, GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (twig: content scope of 40 origins = 0.0103%~0.130%, mean content = 0.039%^[5508]), HUANG HUA HAO *Artemisia annua*, HUANG JIN FENG *Impatiens sicutifer*, MAO RUI HUA *Verbascum thapsus*, MU GUI *Cinnamomum loureirii*, NAN HE SHI *Daucus carota*, OU ZHOU YUN *Picea abies*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (bark: content scope of 6 origins = 0.14%~0.70%, mean content = 0.45%^[5508]), TIAN HU SUI *Hydrocotyle sibthorpioides*, XIAO BAI BU *Asparagus officinalis*. Ref: 2, 548, 658, 660, 5508.

**4141 Coumarinic acid**

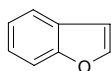
[495-79-4] $C_9H_8O_3$ (164.16). Source: PI HAN CAO *Melilotus suaveolens*. Ref: 6.

**4142 Coumarinic acid- β -D-glucoside**

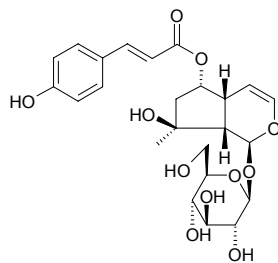
$C_{15}H_{18}O_8$ (326.31). mp 216°C. Source: MAO XIANG HUA *Hierochloa odorata*, PI HAN CAO *Melilotus suaveolens*. Ref: 6.

**4143 Coumarone**

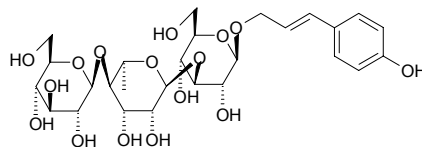
2,3-Benzofuran [271-89-6] C_8H_6O (118.14). bp 174°C. Source: JIU JIE CHA *Sarcandra glabra* [Syn. *Chloranthus glaber*], SHUI HUANG YANG MU *Polygala caudata*. Ref: 6.

**4144 6-*O*-*p*-Coumaroylajugol**

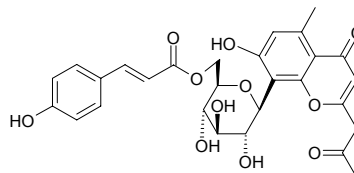
$C_{24}H_{30}O_{11}$ (494.50). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 2.

**4145 *trans*-*p*-Coumaroyl alcohol 1-*O*- β -D-glucopyranosyl(1 \rightarrow 4)- α -L-rhamnopyranosyl(1 \rightarrow 3)- β -D-glucopyranoside**

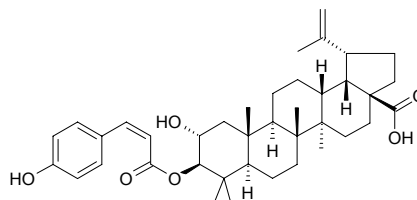
$C_{27}H_{40}O_{16}$ (620.61). Brown syrup. Source: CAO CONG RONG *Boschniakia rossica* (whole herb: yield = 0.0020%). Ref: 1559.

**4146 6'-*O*-*p*-Coumaroylaloetin**

$C_{28}H_{28}O_{11}$ (540.53). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2.

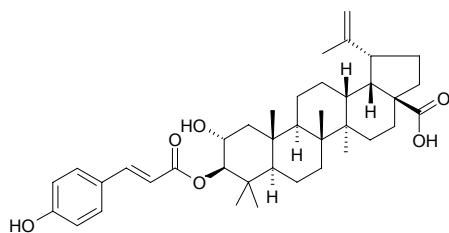
**4147 3-*O*-(*cis*-*p*-Coumaroyl)-aliphilic acid**

$C_{39}H_{54}O_6$ (618.86). White powder, mp 208~210°C, $[\alpha]_D^{20} = +0.9^\circ$ ($c = 1.0$, pyridine). Pharm: Cytotoxic (K562, $ED_{50} = (10.7 \pm 0.1) \mu\text{mol/L}$, control Adriamycin, $ED_{50} = (0.09 \pm 0.03) \mu\text{mol/L}$; B-16 (F-10), $ED_{50} = (10.2 \pm 0.2) \mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.06 \pm 0.10) \mu\text{mol/L}$; SK-MEL-2, $ED_{50} = (8.9 \pm 1.4) \mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.09 \pm 0.30) \mu\text{mol/L}$; PC3, $ED_{50} = (7.3 \pm 0.2) \mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.83 \pm 0.18) \mu\text{mol/L}$; LOX-IMVI, $ED_{50} = (5.5 \pm 0.4) \mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.38 \pm 0.33) \mu\text{mol/L}$; A549, $ED_{50} = (4.7 \pm 1.8) \mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.67 \pm 0.21) \mu\text{mol/L}$)^[5479]. Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 5479.

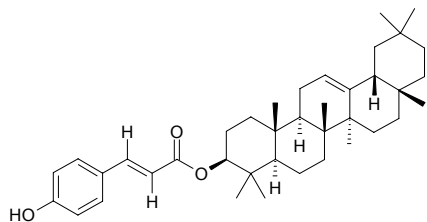


4148 3-O-(trans-p-Coumaroyl)-alphitolic acid

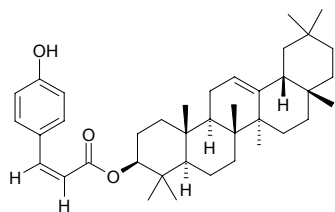
$C_{39}H_{54}O_6$ (618.86). White powder, mp 279~280°C, $[\alpha]_D^{25} = +44.1^\circ$ ($c = 0.8$, pyridine). **Pharm:** Cytotoxic (K562, $ED_{50} = (9.4 \pm 1.0)\mu\text{mol/L}$, control Adriamycin, $ED_{50} = (0.09 \pm 0.03)\mu\text{mol/L}$; B-16 (F-10), $ED_{50} = (7.3 \pm 2.0)\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.06 \pm 0.10)\mu\text{mol/L}$; SK-MEL-2, $ED_{50} = (6.9 \pm 0.9)\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.09 \pm 0.30)\mu\text{mol/L}$; PC3, $ED_{50} = (4.0 \pm 0.4)\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.83 \pm 0.18)\mu\text{mol/L}$; LOX-IMVI, $ED_{50} = (4.3 \pm 1.3)\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.38 \pm 0.33)\mu\text{mol/L}$; A549, $ED_{50} = (12 \pm 1.7)\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.67 \pm 0.21)\mu\text{mol/L}$). **Source:** DA ZAO *Ziziphus jujuba*. **Ref:** 5479.

**4149 3-O-(E)-Coumaroyl-β-amyirin**

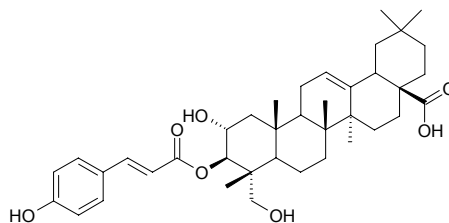
$C_{39}H_{56}O_3$ (572.88). Colorless prisms, mp 188.5~190.0°C, $[\alpha]_D^{25.9} = +60.8^\circ$ ($c = 1.42$, CHCl_3). **Source:** MU MA HUANG *Casuarina equisetifolia*. **Ref:** 2300.

**4150 3-O-(Z)-Coumaroyl-β-amyirin**

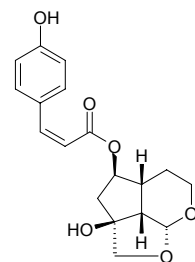
$C_{39}H_{56}O_3$ (572.88). Colorless prisms, mp 106.0~109.0°C, $[\alpha]_D^{25.9} = +38.6^\circ$ ($c = 0.89$, CHCl_3). **Source:** MU MA HUANG *Casuarina equisetifolia*. **Ref:** 2300.

**4151 (3E)-Coumaroylarjunolic acid**

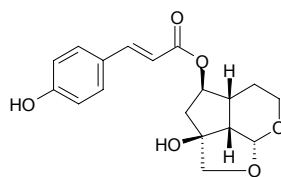
$C_{39}H_{54}O_7$ (634.86). Pale yellowish amorphous powder (CHCl_3 -MeOH), mp 252°C (dec), $[\alpha]_D^{20} = +25.5^\circ$ ($c = 0.047$, MeOH). **Pharm:** Cytotoxic (mouse mammary organ culture assay, 79% at $10\mu\text{g/mL}$)^[5038]; cytotoxic (mouse mammary gland organ culture, DMBA-induced preneoplastic lesion, $4\mu\text{g/mL}$, InRt = 79.2%)^[5178]. **Source:** SAN WEI ZHI FAN YING TAO *Eugenia sandwicensis*(stem). **Ref:** 5038, 5178.

**4152 6-O-cis-p-Coumaroyl-7-deoxyrehmaglutin A**

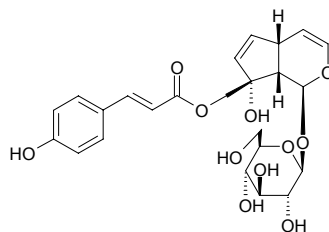
$C_{18}H_{20}O_6$ (332.36). Amorphous powder, $[\alpha]_D^{26} = -15.4^\circ$ ($c = 0.2$, MeOH). **Source:** ZI YE *Catalpa ovata* (fallen leaf). **Ref:** 4290.

**4153 6-O-trans-p-Coumaroyl-7-deoxyrehmaglutin A**

$C_{18}H_{20}O_6$ (332.36). Amorphous powder, $[\alpha]_D^{26} = -17.7^\circ$ ($c = 0.2$, MeOH). **Source:** ZI YE *Catalpa ovata* (fallen leaf). **Ref:** 4290.

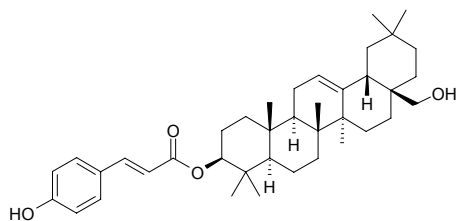
**4154 10-O-trans-Coumaroyl-eranthemoside**

$C_{24}H_{28}O_{11}$ (492.48). Amorphous powder, $[\alpha]_D^{27} = -33.3^\circ$ ($c = 1.35$, MeOH). **Source:** CAO MAO JIA DU JUAN *Barleria strigosa*. **Ref:** 4288.

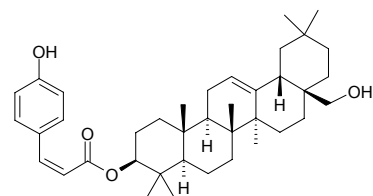


4155 3-O-(E)-Coumaroylerythrodiol

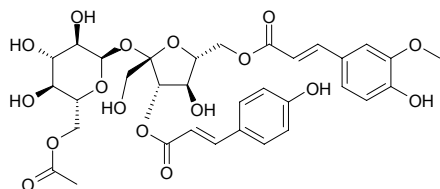
$C_{39}H_{56}O_4$ (588.88). Colorless prisms, mp 241~244°C, $[\alpha]_D^{20.2} = +64.7^\circ$ ($c = 1.75$, dioxane). Source: MU MA HUANG *Casuarina equisetifolia*. Ref: 2300.

**4156 3-O-(Z)-Coumaroylerythrodiol**

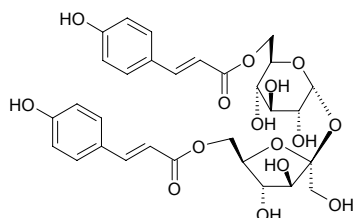
$C_{39}H_{56}O_4$ (588.88). Colorless prisms, mp 106.0~109.0°C, $[\alpha]_D^{20.2} = +41.9^\circ$ ($c = 2.44$, acetone). Source: MU MA HUANG *Casuarina equisetifolia*. Ref: 2300.

**4157 3-O-p-Coumaroyl-6-O-feruloyl-β-D-fructofuranosyl 6-O-acetyl-α-D-glucopyranoside**

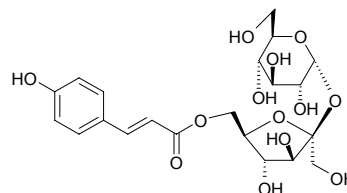
$C_{33}H_{38}O_{17}$ (706.66). Light yellow amorphous solid, $[\alpha]_D^{23} = +23.8^\circ$ ($c = 0.3$, MeOH). Source: JIAO YU *Canna edulis* (rhizome). Ref: 3836.

**4158 (6-O-(E)-p-Coumaroyl)-β-D-fructofuranosyl-(2→1)-(6-O-(E)-p-coumaroyl)-α-D-glucopyranoside**

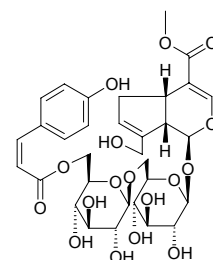
$C_{30}H_{34}O_{15}$ (634.60). White powder. Pharm: Antihistamine (inhibits histamine release, rat mast cell, induced by antigen-antibody reaction, $IC_{50} = 23.5\mu\text{g/mL}$, control Indomethacin, $IC_{50} = 89.5\mu\text{g/mL}$)^[3364]; PGE₂ production inhibitor inactive (30 $\mu\text{g/mL}$, InRt = -0.10%)^[3364]. Source: XIAO HUA GUI ZHEN *Bidens parviflora* Ref: 3364.

**4159 (6-O-(E)-p-Coumaroyl)-β-D-fructofuranosyl-(2→1)-α-D-glucopyranoside**

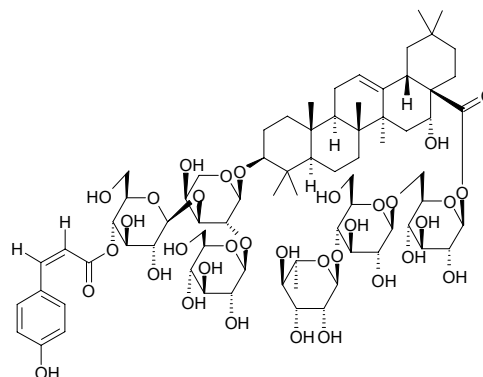
$C_{21}H_{28}O_{13}$ (488.45). Amorphous powder. Pharm: Antihistamine (inhibits histamine release, rat mast cell, induced by antigen-antibody reaction, $IC_{50} = 21.7\mu\text{g/mL}$, control Indomethacin, $IC_{50} = 89.5\mu\text{g/mL}$); PGE₂ production inhibitor (30 $\mu\text{g/mL}$, InRt = 58.1%). Source: XIAO HUA GUI ZHEN *Bidens parviflora* Ref: 3364.

**4160 6''-O-p-Coumaroylgenipeningentiobioside**

$C_{32}H_{40}O_{17}$ (696.67). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 626.

**4161 3-O-[β-D-3-O-cis-p-Coumaroyl-glucofuranosyl-(1→3)]-[β-D-glucopyranosyl-(1→2)]-α-L-arabinopyranosyl echinocystic acid 28-O-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl] ester**

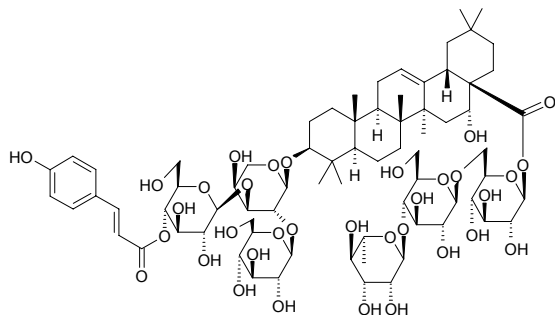
$C_{74}H_{112}O_{34}$ (1545.70). Amorphous powder, $[\alpha]_D^{23} = -14.9^\circ$ ($c = 0.84$, MeOH). Source: *Dizygotheca kerchoveana* (leaf and stem of branch). Ref: 3885.



4162 3-O-[β -D-3-O-*trans*-*p*-Coumaroyl-glucopyranosyl-(1 \rightarrow 3)]-[β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl echinocystic acid 28-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl] ester

C₇₄H₁₁₂O₃₄ (1545.70). Amorphous powder, $[\alpha]_D^{23} = +4.9^\circ$ ($c = 0.96$, MeOH).

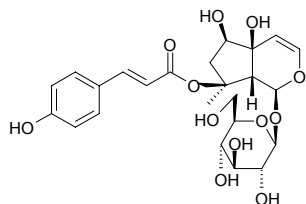
Source: *Dizygotheca kerchoveana* (leaf and stem of branch). Ref: 3885.



4163 8-*p*-Coumaroylharpagide

C₂₄H₃₀O₁₂ (510.50). Pharm: Elastase inhibitor (hmn leukocyte *in vitro*, IC₅₀ = 179 μ g/mL = 331 μ mol/L; control Caffeic acid, IC₅₀ = 86 μ g/mL = 475 μ mol/L).

Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5458.



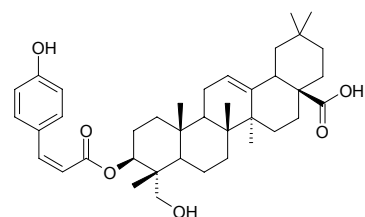
4164 (3Z)-Coumaroylhederagenin

C₃₉H₅₄O₆ (618.86). White amorphous powder, $[\alpha]_D^{25} = +9.6^\circ$ ($c = 0.3$, CHCl₃).

Pharm: Cytotoxic (*in vitro*, oral epidermoid carcinoma KB IC₅₀ =

(1.2 \pm 0.01) μ mol/L, control VP-16, IC₅₀ = (1.1 \pm 0.02) μ mol/L; colorectal carcinoma HT29, IC₅₀ = (2.1 \pm 0.04) μ mol/L, VP-16, IC₅₀ = (2.3 \pm 0.08) μ mol/L).

Source: MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00024%dw). Ref: 3005.



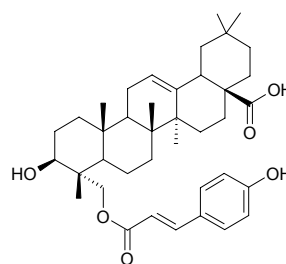
4165 (23E)-Coumaroylhederagenin

C₃₉H₅₄O₆ (618.86). White amorphous powder, $[\alpha]_D^{25} = +6.8^\circ$ ($c = 0.2$, CHCl₃).

Pharm: Cytotoxic (*in vitro*, oral epidermoid carcinoma KB IC₅₀ =

(1.3 \pm 0.05) μ mol/L, control VP-16, IC₅₀ = (1.1 \pm 0.02) μ mol/L; colorectal carcinoma HT29, IC₅₀ = (2.4 \pm 0.08) μ mol/L, VP-16, IC₅₀ = (2.3 \pm 0.08) μ mol/L).

Source: MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00024%dw). Ref: 3005.



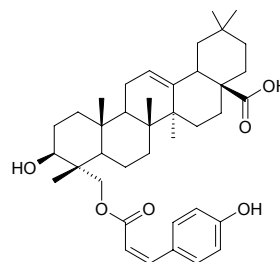
4166 (23Z)-Coumaroylhederagenin

C₃₉H₅₄O₆ (618.86). White amorphous powder, $[\alpha]_D^{25} = +14.6^\circ$ ($c = 0.2$,

CHCl₃). Pharm: Cytotoxic (*in vitro*, oral epidermoid carcinoma KB, IC₅₀ =

(1.6 \pm 0.10) μ mol/L, control VP-16, IC₅₀ = (1.1 \pm 0.02) μ mol/L; colorectal carcinoma HT29, IC₅₀ = (3.6 \pm 0.08) μ mol/L, VP-16, IC₅₀ = (2.3 \pm 0.08) μ mol/L).

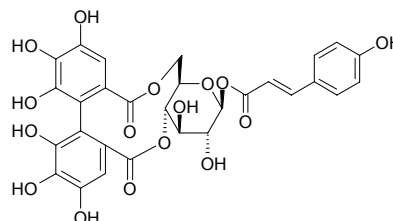
Source: MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00018%dw). Ref: 3005.



4167 1-O-*p*-(E)-Coumaroyl-4,6-(S)-HHDP- β -D-glucopyranose

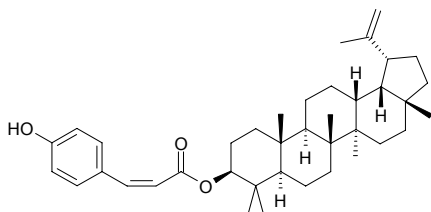
C₂₉H₂₄O₁₆ (628.51). Yellow amorphous powder, $[\alpha]_D^{15} = -33.2^\circ$ ($c = 0.3$,

MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0008%). Ref: 4101.

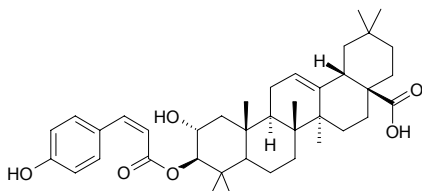


4168 3-(Z)-Coumaroyllupeol

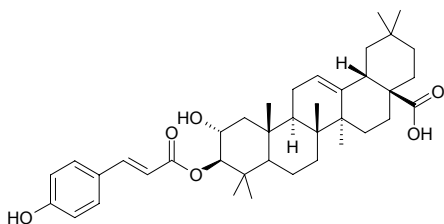
$C_{39}H_{56}O_3$ (572.88). Source: XIAO HUA MU LAN GUO *Bruguiera parviflora*.
Ref: 2532.

**4169 3-O-(cis-p-Coumaroyl)-maslinic acid**

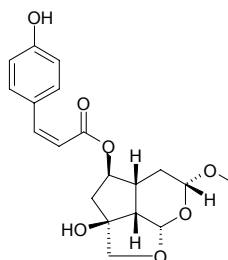
$C_{39}H_{54}O_6$ (618.86). White powder, mp 278~282°C, $[\alpha]_D^{24} = +9.1^\circ$ ($c = 1.1$, pyridine). Pharm: Cytotoxic inactive (K562, $ED_{50} > 20\mu\text{mol/L}$, control Adriamycin, $ED_{50} = (0.09\pm 0.03)\mu\text{mol/L}$; B-16 (F-10), $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.06\pm 0.10)\mu\text{mol/L}$; SK-MEL-2, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.09\pm 0.30)\mu\text{mol/L}$; PC3, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.83\pm 0.18)\mu\text{mol/L}$; LOX-IMVI, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.38\pm 0.33)\mu\text{mol/L}$; A549, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.67\pm 0.21)\mu\text{mol/L}$)^[5479]. Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 5479.

**4170 3-O-(trans-p-Coumaroyl)-maslinic acid**

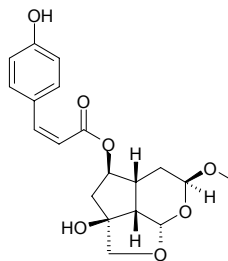
$C_{39}H_{54}O_6$ (618.86). White powder, mp 190~194°C, $[\alpha]_D^{20} = +0.9^\circ$ ($c = 1.0$, pyridine). Pharm: Cytotoxic inactive (K562, $ED_{50} > 20\mu\text{mol/L}$, control Adriamycin, $ED_{50} = (0.09\pm 0.03)\mu\text{mol/L}$; B-16 (F-10), $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.06\pm 0.10)\mu\text{mol/L}$; SK-MEL-2, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.09\pm 0.30)\mu\text{mol/L}$; PC3, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.83\pm 0.18)\mu\text{mol/L}$; LOX-IMVI, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.38\pm 0.33)\mu\text{mol/L}$; A549, $ED_{50} > 20\mu\text{mol/L}$, Adriamycin, $ED_{50} = (0.67\pm 0.21)\mu\text{mol/L}$)^[5479]. Source: DA ZAO *Ziziphus jujuba*. Ref: 5479.

**4171 6-O-cis-p-Coumaroyl-3α-O-methyl-7-deoxyrehmaglutin A**

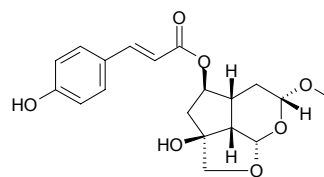
$C_{19}H_{22}O_7$ (362.38). Amorphous powder, $[\alpha]_D^{26} = -47.6^\circ$ ($c = 0.1$, MeOH).
Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.

**4172 6-O-cis-p-Coumaroyl-3β-O-methyl-7-deoxyrehmaglutin A**

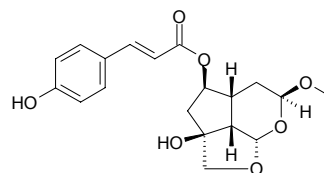
$C_{19}H_{22}O_7$ (362.38). Amorphous powder, $[\alpha]_D^{26} = +20.0^\circ$ ($c = 0.3$, MeOH).
Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.

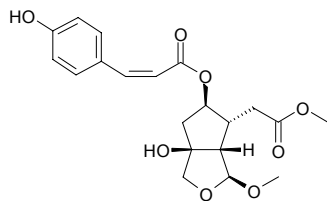
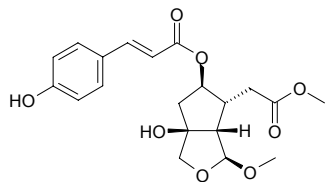
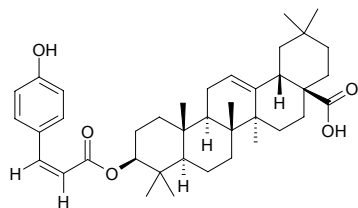
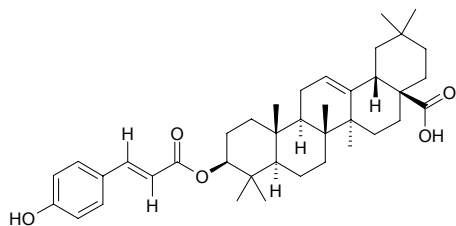
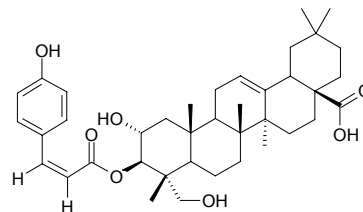
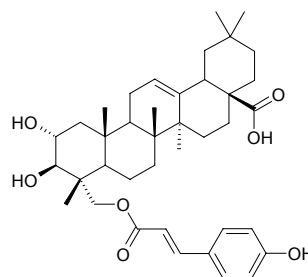
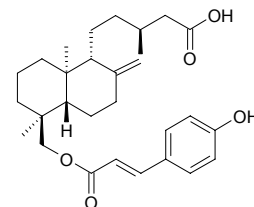
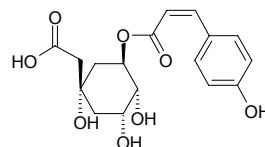
**4173 6-O-trans-p-Coumaroyl-3α-O-methyl-7-deoxyrehmaglutin A**

$C_{19}H_{22}O_7$ (362.38). Amorphous powder, $[\alpha]_D^{26} = -90.9^\circ$ ($c = 0.1$, MeOH).
Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.

**4174 6-O-trans-p-Coumaroyl-3β-O-methyl-7-deoxyrehmaglutin A**

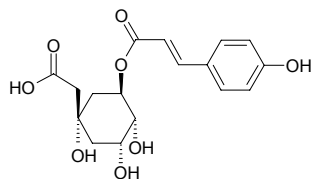
$C_{19}H_{22}O_7$ (362.38). Amorphous powder, $[\alpha]_D^{26} = -16.1^\circ$ ($c = 0.3$, MeOH).
Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.



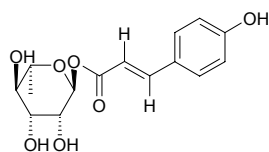
4175 6-*O*-cis-*p*-Coumaroyl-1 β -*O*-methylovatofuranic acid methyl esterC₂₀H₂₄O₈ (392.41). Amorphous powder, $[\alpha]_D^{26} = +27.4^\circ$ ($c = 0.1$, MeOH).Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.**4176 6-*O*-trans-*p*-Coumaroyl-1 β -*O*-methylovatofuranic acid methyl ester**C₂₀H₂₄O₈ (392.41). Amorphous powder, $[\alpha]_D^{26} = -12.5^\circ$ ($c = 0.1$, MeOH).Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.**4177 3-*O*-(*E*)-Coumaroyloleanolic acid**C₃₉H₅₄O₅ (602.86). Colorless prisms, mp 141~142°C, $[\alpha]_D^{19.6} = +23.6^\circ$ ($c = 0.36$, acetone). Source: MU MA HUANG *Casuarina equisetifolia*. Ref: 2300.**4178 3-*O*-(*Z*)-Coumaroyloleanolic acid**C₃₉H₅₄O₅ (602.86). Colorless prisms, mp 245~247°C, $[\alpha]_D^{20.3} = +89.5^\circ$ ($c = 0.21$, acetone). Source: MU MA HUANG *Casuarina equisetifolia*. Ref: 2300.**4179 3 β -cis-*p*-Coumaroyloxy-2 α ,23-dihydroxyolean-12-en-28-oic acid**C₃₉H₅₄O₇ (634.86). White amorphous powder (CHCl₃-MeOH), mp 252°C(dec), $[\alpha]_D^{20} = +34.9^\circ$ ($c = 0.032$, MeOH). Pharm: Cytotoxic (mouse mammary gland organ culture, DMBA-induced preneoplastic lesion, 10 μ g/mL, InRt = 36.6%). Source: SAN WEI ZHI FAN YING TAO *Eugenia sandwicensis* (stem). Ref: 5178.**4180 23-*trans*-*p*-Coumaroyloxy-2 α ,3 β -dihydroxyolean-12-en-28-oic acid**C₃₉H₅₄O₇ (634.86). White amorphous powder (CHCl₃-MeOH), mp210~214°C, $[\alpha]_D^{20} = +21.8^\circ$ ($c = 0.055$, MeOH). Pharm: Cytotoxic (mouse mammary gland organ culture, DMBA-induced preneoplastic lesion, 10 μ g/mL, InRt = 48.1%). Source: SAN WEI ZHI FAN YING TAO *Eugenia sandwicensis* (stem). Ref: 5178.**4181 (13*S*)-ent-18-(*E*)-Coumaroyloxy-8(17)-labden-15-oic acid**C₂₉H₄₀O₅ (468.64). Colorless oil, $[\alpha]_D^{20} = -2.4^\circ$ ($c = 0.365$, MeOH). Pharm: Antimalarial (*Plasmodium falciparum* FcB1, IC₅₀ = (11.4±1.1) μ g/mL, control Chloroquine, IC₅₀ = (0.05±0.002) μ g/mL). Source: *Nuxia sphaerocephala* (leaf). Ref: 4419.**4182 5-*p*-cis-Coumaroylquinic acid**C₁₆H₁₈O₈ (338.32). Source: LV DOU *Onobrychis vicifolia* (leaf). Ref: 5084.

4183 5-*p*-trans-Coumaroylquinic acid

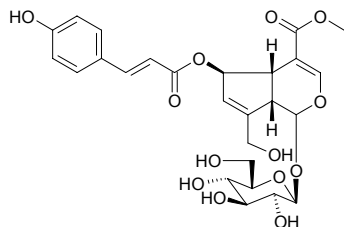
$C_{16}H_{18}O_8$ (338.32). Source: LV DOU *Onobrychis viciifolia* (leaf). Ref: 5084.

**4184 1-(*p*-Coumaroyl)- α -L-rhamnopyranose**

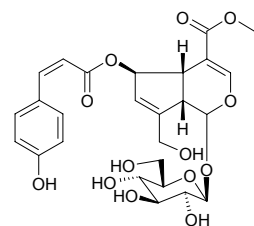
$C_{15}H_{18}O_7$ (310.31). Colorless prismatic crystals, mp 81~83°C; 188~190°C (chloroform-methanol-acetone), white crystals, mp 248~251°C, $[\alpha]_D^{20} = -21.5^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Inhibitory activity against NFAT Transcription ($IC_{50} > 100\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01)\mu\text{mol/L}$). Source: DONG BEI HE SHI *Lappula echinata*, HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. Ref: 48, 2536.

**4185 6-*O*-*E*-*p*-Coumaroyl scandoside methyl ester**

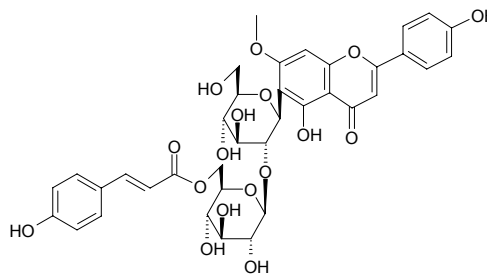
$C_{26}H_{30}O_{13}$ (550.52). Pharm: Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, 0.1 $\mu\text{mol/L}$, cell viability = (14.5 \pm 1.0)%, 1.0 $\mu\text{mol/L}$, cell viability = (62.2 \pm 4.0)%, $p < 0.001$, 10 $\mu\text{mol/L}$, cell viability = (26.8 \pm 3.5)%, $p < 0.05$). Source: BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00154%). Ref: 3027.

**4186 6-*O*-*Z*-*p*-Coumaroyl scandoside methyl ester**

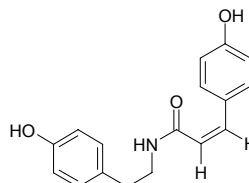
$C_{26}H_{30}O_{13}$ (550.52). Pharm: Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, 0.1 $\mu\text{mol/L}$, cell viability = (6.9 \pm 0.9)%, 1.0 $\mu\text{mol/L}$, cell viability = (25.7 \pm 2.0)%, $p < 0.05$, 10 $\mu\text{mol/L}$, cell viability = (6.3 \pm 3.5)%). Source: BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00048%). Ref: 3027.

**4187 6'''-*p*-Coumaroylspinosin**

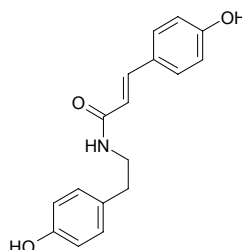
Apigenin-6-*C*-[(6-*O*-*p*-hydroxybenzoyl)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside $C_{37}H_{38}O_{17}$ (754.71). Source: DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 2, 660.

**4188 *N*-*p*-cis-Coumaroyltyramine**

$C_{17}H_{17}NO_3$ (283.33). Source: DUAN TING SHAN MAI DONG *Liriope muscari* (tuber: yield = 0.00086%), HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00071%dw), MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw). Ref: 3026, 4772, 4779.

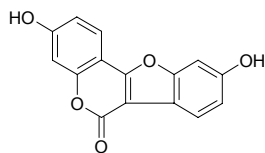
**4189 *N*-(*trans*-*p*-Coumaroyl) tyramine**

$C_{17}H_{17}NO_3$ (283.33). Pharm: Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells)^[4706]; cytotoxic inactive (*in vitro*, MCF7 and A549)^[4706]. Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00043%), HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.0014%dw), MAI DONG *Ophiopogon japonicus* (tuber: yield = 0.0001%), RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TIAN QIE ZI *Solanum indicum* (root). Ref: 3087, 4502, 4706, 4772, 4779.

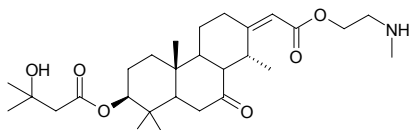


4190 Coumestrol

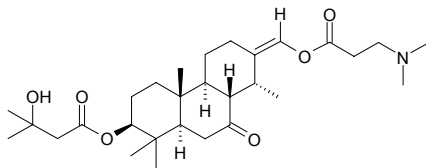
[479-13-0] $C_{15}H_8O_5$ (268.23). **Pharm:** Anti-fertility agent; antifungal; estrogenic activity; peroxidase inhibitor (non-competitive); cytotoxic (KB, $IC_{50} > 75\mu\text{mol/L}$, control Helenalin, $IC_{50} = (0.64 \pm 0.08)\mu\text{mol/L}$, Melphalan, $IC_{50} = (6.0 \pm 0.5)\mu\text{mol/L}$; Mono-Mac-6, $IC_{50} > 75\mu\text{mol/L}$, Helenalin, $IC_{50} = (3.1 \pm 0.3)\mu\text{mol/L}$; Jurkat-T, $IC_{50} = (53.3 \pm 4.2)\mu\text{mol/L}$, Helenalin, $IC_{50} = (1.14 \pm 0.08)\mu\text{mol/L}$, Melphalan, $IC_{50} = (9.1 \pm 0.8)\mu\text{mol/L}$)^[5077]. **Source:** BO CAI *Spinacia oleracea*, CAO MEI CHE ZHOU CAO *Trifolium fragiferum*, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], MU XU *Medicago sativa*, SAN XIAO CAO *Trifolium repens*, YAO YONG PU GONG YING *Taraxacum officinale*, *Bituminaria morisiana* (leaf). **Ref:** 2, 658, 660, 5077.

**4191 Coumingidine**

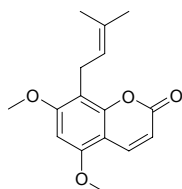
$C_{28}H_{45}NO_6$ (491.67). mp 160~161°C. **Pharm:** Uterine stimulant. **Source:** KAO MING GE MU *Erythrophleum couminga*, TIE XIU SE HUANG TAN *Dalbergia ferruginea*. **Ref:** 661.

**4192 Coumingine**

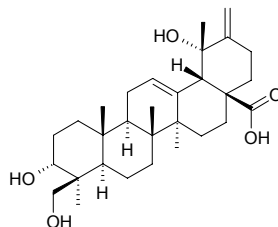
$C_{29}H_{47}NO_6$ (505.70). Lustrous, tiny acicular crystals (ether), mp 142°C, $[\alpha]_D^{20} = -70^\circ$. **Pharm:** Cardiotonic; uterine stimulant. **Source:** KAO MING GE MU *Erythrophleum couminga*, TIE XIU SE HUANG TAN *Dalbergia ferruginea*. **Ref:** 661.

**4193 Coumurrayin**

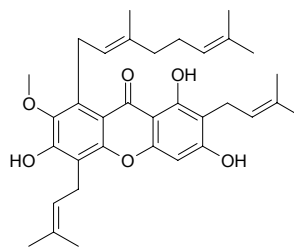
8-Isopentenylmettin [17245-25-9] $C_{16}H_{18}O_4$ (274.32). mp 157°C. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], YUN QIAN HU *Peucedanum rubricaulis*. **Ref:** 6, 11, 177.

**4194 Coussaric acid**

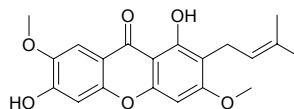
$C_{30}H_{46}O_5$ (486.70). Colorless needles ($CHCl_3$:MeOH = 5:1), mp 232~233°C, $[\alpha]_D^{23} = +51.5^\circ$ ($c = 1.0$, pyridine). **Pharm:** Quinone reductase inducer (mouse Hepa lc7 hepatoma cells, CD = $17.9\mu\text{mol/L} = 8.7\mu\text{g/mL}$). **Source:** *Coussarea brevicaulis*. **Ref:** 3434.

**4195 Cowagarcinone A**

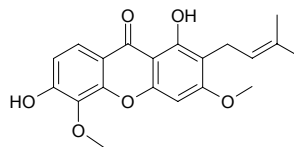
1,3,6-Trihydroxy-7-methoxy-2,5-bis(3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)xanthone $C_{34}H_{42}O_6$ (546.71). Yellow gum. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} > 200\mu\text{mol/L}$, control BHT, $IC_{50} = 5.10\mu\text{g/mL}$; crude latex of *Garcinia cowa*, $IC_{50} = 13.20\mu\text{g/mL}$). **Source:** YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 5281.

**4196 Cowagarcinone B**

1,6-Dihydroxy-3,7-dimethoxy-2-(3-methylbut-2-enyl)-xanthone $C_{20}H_{20}O_6$ (356.38). Pale yellow solid, mp 252~253°C. **Pharm:** Antioxidant (DPPH scavenger, $10\mu\text{mol/L}$, ScRt = 15%, control BHT, $10\mu\text{mol/L}$, ScRt = 43%)^[5319]. **Source:** DAO NIAN ZI *Garcinia mangostana*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 1964, 5281, 5319.

**4197 Cowagarcinone C**

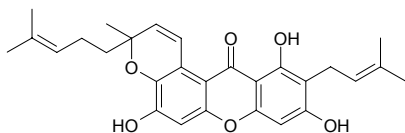
1,6-Dihydroxy-3,5-dimethoxy-2-(3-methylbut-2-enyl)xanthone $C_{20}H_{20}O_6$ (356.38). Pale yellow solid, mp 152~153°C. **Source:** YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 5281.



4198 Cowagarcinone D

6,8,12-Trihydroxy-7-(3-methyl-2-butenyl)-2-methyl-2-(4-methyl-3-pentenyl)pyrano-(2',3':7,8)xanthone C₂₈H₃₀O₆ (462.55). Yellow solid, mp 92–94°C.

Source: YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). Ref: 5281.

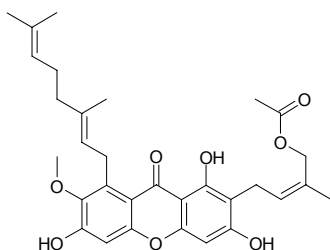
**4199 Cowagarcinone E**

1,3,6-Trihydroxy-7-methoxy-2-(4-acetoxy-3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)xanthone C₃₁H₃₆O₈ (536.63). Yellow gum. Pharm:

Antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control BHT, IC₅₀ =

5.10 μg/mL; crude latex of *Garcinia cowa*, IC₅₀ = 13.20 μg/mL). Source: YUN

NAN SHAN ZHU ZI *Garcinia cowa* (latex). Ref: 5281.

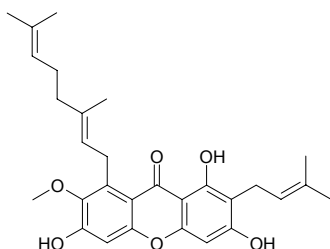
**4200 Cowanin**

C₂₉H₃₄O₆ (478.59). Pharm: Antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control BHT, IC₅₀ = 5.10 μg/mL; crude latex of *Garcinia cowa*, IC₅₀ =

13.20 μg/mL)^[5281]; antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 15%, control BHT, 10 μmol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus*

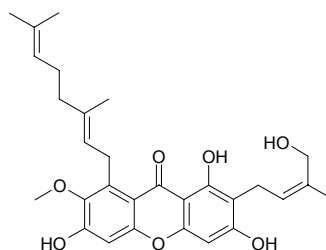
aureus ATCC 25923, MIC = 32 μg/mL, control Vancomycin, MIC = 2 μg/mL; *Staphylococcus aureus* MRSA SK1, MIC = 8 μg/mL, Vancomycin, MIC =

2 μg/mL)^[5319]. Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). Ref: 5281, 5319.

**4201 Cowanol**

C₂₉H₃₄O₇ (494.59). Pharm: Antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control BHT, IC₅₀ = 5.10 μg/mL; crude latex of *Garcinia cowa*, IC₅₀ =

13.20 μg/mL). Source: YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). Ref: 5281.

**4202 Cowaxanthone**

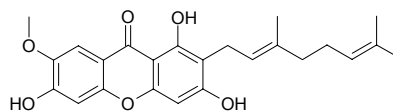
C₂₄H₂₆O₆ (410.47). Pharm: Antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control BHT, IC₅₀ = 5.10 μg/mL; crude latex of *Garcinia cowa*, IC₅₀ =

13.20 μg/mL)^[5281]; antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 16%, control BHT, 10 μmol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus*

aureus ATCC 25923, MIC = 16 μg/mL, control Vancomycin, MIC = 2 μg/mL; *Staphylococcus aureus* MRSA SK1, MIC = 16 μg/mL, Vancomycin, MIC =

2 μg/mL)^[5319]. Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), YUN NAN SHAN ZHU ZI

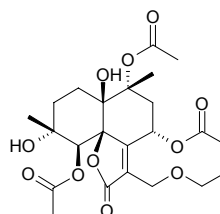
Garcinia cowa (latex). Ref: 4422, 5281, 5319.

**4203 CPB-2001-49-1359-1**

C₂₃H₃₂O₁₁ (484.50). Colorless oil, [α]_D = -32° (c = 0.7, CHCl₃). Pharm:

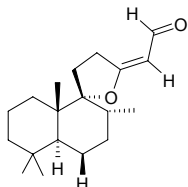
Antifungal (*Candida albicans* and *Aspergillus niger*, moderate activity; *Trichophyton mentagrophytes*, low activity); antibacterial (*Staphylococcus*

aureus, *Escherichia coli* and *Pseudomonas aeruginosa*, low activity). Source: JIA DI DAN CAO *Pseudoelephantopus spicatus* (leaf). Ref: 4133.

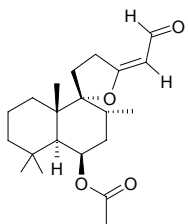


4204 CPB5212-1492-1

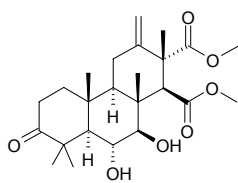
$C_{19}H_{30}O_2$ (290.45). Colorless oil, $[\alpha]_D = -3.4^\circ$ ($c = 0.64$, MeOH). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = $11\mu\text{mol/L}$). Source: MAN JING ZI *Vitex trifolia*. Ref: 2550.

**4205 CPB5212-1492-2**

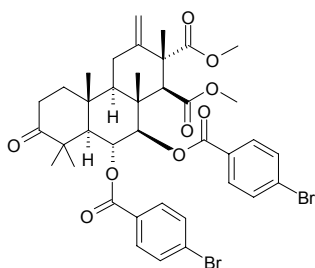
$C_{21}H_{32}O_4$ (348.49). Colorless oil, $[\alpha]_D = -1.4^\circ$ ($c = 0.50$, MeOH). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = $36\mu\text{mol/L}$). Source: MAN JING ZI *Vitex trifolia*. Ref: 2550.

**4206 CPB-53-1114-4**

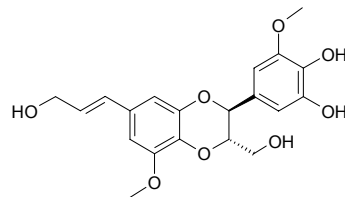
$C_{24}H_{36}O_7$ (436.55). Source: JI JIAN DAN QING MEI *Penicillium simplicissimum*. Ref: 4501.

**4207 CPB-53-1114-4 6,7-di-*p*-bromobenzoate**

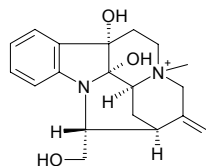
$C_{38}H_{42}Br_2O_9$ (802.56). Source: JI JIAN DAN QING MEI *Penicillium simplicissimum*. Ref: 4501.

**4208 CPB-53-641-1**

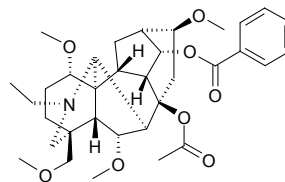
$C_{20}H_{22}O_8$ (390.39). Colorless oil, $[\alpha]_D^{20} = +8.0^\circ$ ($c = 1.0$, MeOH). Source: TAN XIANG *Santalum album* (heartwood). Ref: 4468.

**4209 C-profluorocurine**

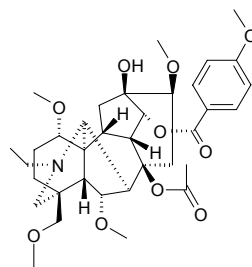
$C_{20}H_{27}N_2O_3$ (343.45). Source: *Strychnos guianensis* (stem cortex). Ref: 3943.

**4210 Crassicaudine**

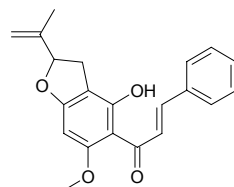
$C_{34}H_{47}NO_8$ (597.76). Source: CU JING WU TOU *Aconitum crassicaule*^[1521], ZHUA KUI GUA YE WU TOU *Aconitum hemisleyanum* var. *leueanthus* (root; yield = 0.00040%dw)^[4678]. Ref: 1521, 4678.

**4211 Crassicauline A**

[79592-91-9] $C_{35}H_{49}NO_{10}$ (643.78). Source: DIAN XI WU TOU *Aconitum bulleyanum*, FU ZI *Aconitum carmichaeli* (tuber). Ref: 618, 4373.

**4212 Crassichalcone**

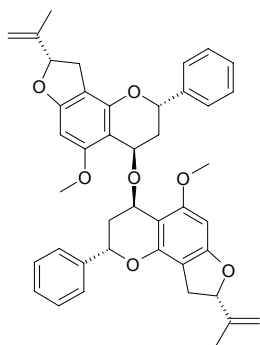
$C_{21}H_{20}O_4$ (336.39). Yellow oil. Source: HOU YE HUI MAO DOU *Tephrosia crassifolia*. Ref: 2389.



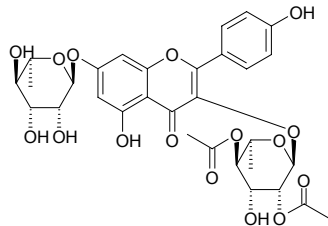
4213 Crassifolin

$C_{42}H_{42}O_7$ (658.80). Colorless crystals, mp 249–250°C, $[\alpha]_D = +4.24^\circ$ ($CHCl_3$).

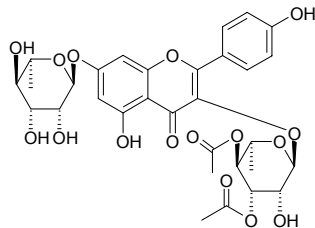
Source: HOU YE HUI MAO DOU *Tephrosia crassifolia*. Ref: 2389.

**4214 Crassirhizomide A**

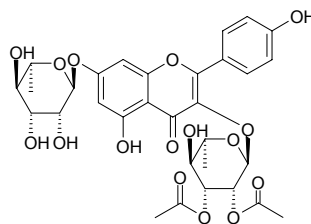
Kaempferol 3-*α*-L-(2,4-di-*O*-acetyl)rhamnopyranoside-7-*α*-L-rhamnopyranoside $C_{31}H_{34}O_{16}$ (662.61). Pale yellow amorphous powder, $[\alpha]_D = -152^\circ$ ($c = 0.1$, MeOH). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} = 215\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 46\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} = 25\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; RnaseH inhibitor, $IC_{50} > 500\mu\text{mol/L}$, positive control Illimaquinone, $IC_{50} = 50\mu\text{mol/L}$). Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 3522.

**4215 Crassirhizomide B**

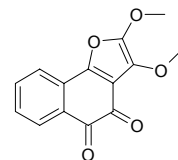
Kaempferol 3-*α*-L-(3,4-di-*O*-acetyl)rhamnopyranoside-7-*α*-L-rhamnopyranoside $C_{31}H_{34}O_{16}$ (662.61). Pale yellow amorphous powder, $[\alpha]_D = -219^\circ$ ($c = 0.1$, MeOH). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} > 500\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 46\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; RnaseH inhibitor, $IC_{50} > 500\mu\text{mol/L}$, positive control Illimaquinone, $IC_{50} = 50\mu\text{mol/L}$). Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 3522.

**4216 Crassirhizomide C**

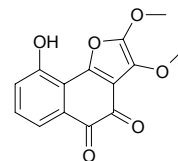
Kaempferol 3-*α*-L-(2,3-di-*O*-acetyl)rhamnopyranoside-7-*α*-L-rhamnopyranoside $C_{31}H_{34}O_{16}$ (662.61). Pale yellow amorphous powder, $[\alpha]_D = -161^\circ$ ($c = 0.1$, MeOH). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} = 240\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 46\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} = 28\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; RnaseH inhibitor, $IC_{50} > 500\mu\text{mol/L}$, positive control Illimaquinone, $IC_{50} = 50\mu\text{mol/L}$). Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 3522.

**4217 Crataequinone A**

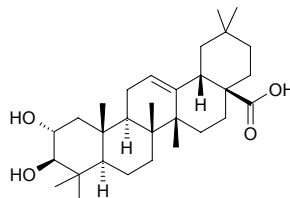
11,12-Dimethoxy-3,4-furo-1,2-naphthoquinone $C_{14}H_{10}O_5$ (258.23). Red-purple needles (hexane-EtOAc), mp 157–158°C. Pharm: Intercellular adhesion molecule-1 (ICAM-1) expression inhibitor ($IC_{50} = 33\mu\text{mol/L}$). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 4091.

**4218 Crataequinone B**

11,12-Dimethoxy-5-hydroxy-3,4-furo-1,2-naphthoquinone $C_{14}H_{10}O_6$ (274.23). Red-purple needles (MeOH-H₂O), mp 123–125°C. Pharm: Intercellular adhesion molecule-1 (ICAM-1) expression inhibitor ($IC_{50} = 90\mu\text{mol/L}$). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 4091.

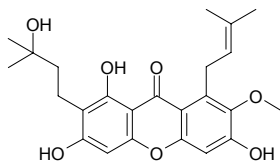
**4219 Crategolic acid**

2,3-Dihydroxy-12-oleanen-28-oic acid [4373-41-5] $C_{30}H_{48}O_4$ (472.71). mp 263–265°C. Source: SHAN ZHA *Crataegus pinnatifida*, SHAN ZHA YE *Crataegus pinnatifida*, HUO XIANG *Agastache rugosus*. Ref: 6, 660.

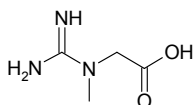


4220 Cratoxylone

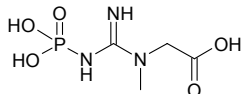
[149155-01-1] C₂₄H₂₈O₇ (428.49). Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 5319.

**4221 Creatine**

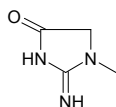
N-Amidinosarcosine [57-00-1] C₄H₉N₃O₂ (131.14). mp 303°C. Source: GOU ROU *Canis familiaris*, GOU XIN *Canis familiaris*, LI YU *Cyprinus carpio*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, QING WA *Rana nigromaculata*; *Rana plancyi*, XIA TIAN GAO *Bos taurus domesticus*, XIANG ROU *Elephas maximus*. Ref: 6.

**4222 Creatine phosphoric acid**

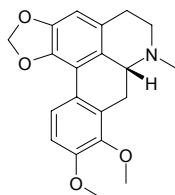
Phosphocreatine [6190-45-0] C₄H₁₀N₃O₅P (211.12). Source: QING WA *Rana nigromaculata*; *Rana plancyi*, LI YU *Cyprinus carpio*. Ref: 6.

**4223 Creatinine**

C₄H₇N₃O (113.12). mp 260°C (dec). Source: MO GU *Agaricus campestris*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*. Ref: 6.

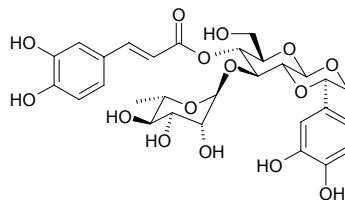
**4224 (-)-Crebanine**

C₂₀H₂₁NO₄ (339.39). [α]_D²⁵ = -55.2° (CHCl₃). Source: *Stephania* sp. Ref: 3404.

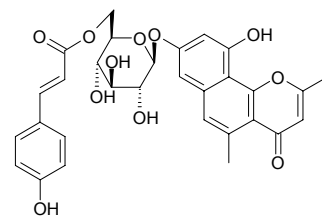
**4225 Crenatoside‡**

Oraposide; Orobanchoside [61276-16-2] C₂₉H₃₄O₁₅ (622.59). Amorphous powder, [α]_D²⁶ = -23° (c = 0.44, MeOH). Pharm: Antiviral inactive (Vero cell lines infected with HSV-2 strain 333, 250μg/mL)^[4752]; ACE inhibitor (1.0mg/mL, InRt = 99.7%; 0.1mg/mL, InRt = 75.5%; 0.01mg/mL, InRt = 34.6%; control Captopril, 0.01mg/mL, InRt = 97.7%)^[4752]; antioxidant (relative potency = 1.4, compared with Resveratrol, relative potency = 1)^[4920]. Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*, LIE DANG *Orobanche coerulescens* (whole herb), NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.0036%dw). Ref: 2448, 4752, 4920.

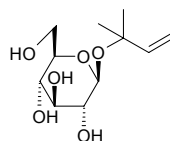
‡Note: See compound I6161.

**4226 Crenatoside**

C₃₀H₂₈O₁₁ (564.55). Colorless needles (MeOH), mp > 300°C, [α]_D²⁰ = -44.5° (c = 1.00, DMSO). Source: HUANG YAO *Rhamnus crenatus* (aerial parts). Ref: 4878.

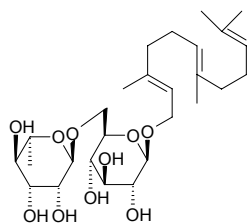
**4227 Crenulatin**

2-Methyl-3-buten-2-ol β-D-glucopyranoside C₁₁H₂₀O₆ (248.28). Colorless, small prismatic crystals, mp 118~120°C (acetone), [α]_D²⁰ = -26.76° (c = 1.1, ethanol); amorphous powder, [α]_D²⁴ = -19°. Source: BEI SHA SHEN *Glehnia littoralis* (fruit), DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*]. Ref: 218, 3525.

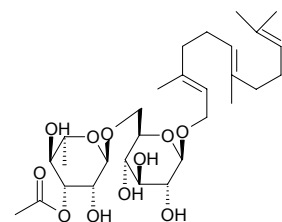


4228 Crenulatoside A

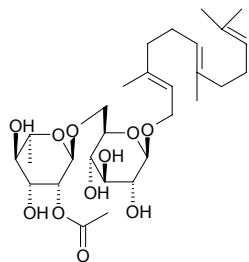
1-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,6*E*)-farnesol
 $C_{27}H_{46}O_{10}$ (530.66). $[\alpha]_D^{20} = -44^\circ$ ($c = 1$, MeOH). Source: *Guioa crenulata*
 (leaf). Ref: 5331.

**4229 Crenulatoside B**

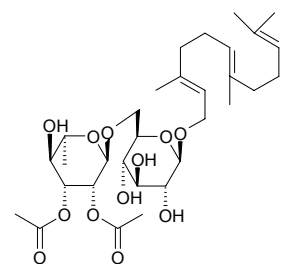
1-*O*-[3-*O*-Acetyl- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,6*E*)-
 farnesol $C_{29}H_{48}O_{11}$ (572.70). $[\alpha]_D^{20} = -28^\circ$ ($c = 1$, MeOH). Source: *Guioa*
crenulata (leaf). Ref: 5331.

**4230 Crenulatoside C**

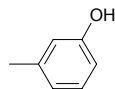
1-*O*-[2-*O*-Acetyl- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,6*E*)-
 farnesol $C_{29}H_{48}O_{11}$ (572.70). $[\alpha]_D^{20} = -24^\circ$ ($c = 0.58$, MeOH). Source: *Guioa*
crenulata (leaf). Ref: 5331.

**4231 Crenulatoside D**

1-*O*-[2,3-*O*-acetyl- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,
 6*E*)-farnesol $C_{31}H_{50}O_{12}$ (614.74). $[\alpha]_D^{20} = -31^\circ$ ($c = 0.33$, MeOH). Source:
Guioa crenulata (leaf). Ref: 5331.

**4232 *m*-Cresol**

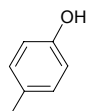
3-Methylphenol [108-39-4] C_7H_8O (108.14). mp 11~12°C, bp 202°C. Source:
 CHUAN XU DUAN *Dipsacus asperoides*, MO YAO *Commiphora myrrha*
 [Syn. *Commiphora molmo*], SANG YE *Morus alba*, YIN CHEN HAO
Artemisia capillaris. Ref: 6, 660, 1379.

**4233 *o*-Cresol**

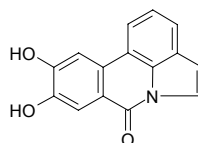
2-Methylphenol [95-48-7] C_7H_8O (108.14). Source: DANG GUI *Angelica*
sinensis, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 660.

**4234 *p*-Cresol**

4-Methylphenol [106-44-5] C_7H_8O (108.14). mp 34°C. Pharm: Anthelmintic;
 disinfectant; local anticorrosion. Source: CHUAN XU DUAN *Dipsacus*
asperoides, DANG GUI *Angelica sinensis*, DU HUO *Angelica pubescens* f.
biserrata [Syn. *Angelica pubescens*], HONG GUI *Chamaecyparis formosensis*,
 HUI QIN *Pimpinella anisum*, YIN CHEN HAO *Artemisia capillaris*, *Morus*
 sp. Ref: 2, 660, 1379.

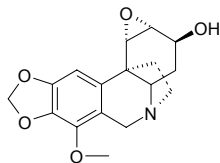
**4235 Criasiaticidine A**

4,5-Etheno-9,10-dihydroxy-6-phenanthridone; Hippacine $C_{15}H_9NO_3$ (251.24).
 Pale brown needles (CH_3CN-H_2O), mp 277~279°C; amorphous powder.
Pharm: Cytotoxic (Meth-A cell, $ED_{50} = 3.2\mu g/mL$, control Adriamycin, ED_{50}
 $< 0.09\mu g/mL$; LLC cell, $ED_{50} = 4.2\mu g/mL$, Adriamycin, $ED_{50} =$
 $0.1\mu g/mL$)^[4125]. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum*
bulbispermum (bulb), RI BEN WEN SHU LAN *Crinum asiaticum* var.
japonicum (bulb). Ref: 3997, 4125.

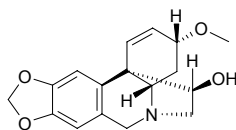


4236 Crinamidine

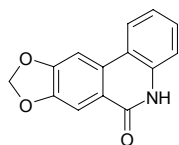
$C_{17}H_{19}NO_5$ (317.34). **Pharm:** AChE inhibitor ($IC_{50} = (300 \pm 27) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$). **Source:** *Crinum moorei*. **Ref:** 4952.

**4237 Crinamine**

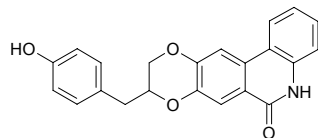
[639-41-8] $C_{17}H_{19}NO_4$ (301.35). **Pharm:** AChE inhibitor ($IC_{50} = (697 \pm 12) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$)^[4952]; inhibits respiration; antihypertensive (dog, short time); antiplasmodial (strain D10, $IC_{50} = 2.8 \mu\text{g/mL}$, control Hamayne, $IC_{50} = 15.6 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.002 \mu\text{g/mL}$; strain FAC8, $IC_{50} = 3.4 \mu\text{g/mL}$, Hamayne, $IC_{50} = 18.2 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.01 \mu\text{g/mL}$; cytotoxic, BL6, $IC_{50} = 1.8 \mu\text{g/mL}$, Hamayne, $IC_{50} = 9.4 \mu\text{g/mL}$, Chloroquine, $IC_{50} = 20.9 \mu\text{g/mL}$, Daunomycin, $IC_{50} = 0.43 \mu\text{g/mL}$)^[3931]; LD_{50} (dog, orl) = 10 mg/kg. **Source:** LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*, YA ZHOU WEN SHU LAN *Crinum asiaticum*, *Ammocharis coranica* (bulb). **Ref:** 658, 3931, 3952, 4952.

**4238 Crinasiadine**

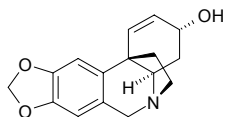
[40141-86-4] $C_{14}H_9NO_3$ (239.13). **Pharm:** Antineoplastic. **Source:** YA ZHOU WEN SHU LAN *Crinum asiaticum*. **Ref:** 658.

**4239 Crinasiatine**

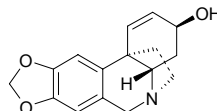
$C_{22}H_{17}NO_4$ (359.39). **Pharm:** Antineoplastic. **Source:** YA ZHOU WEN SHU LAN *Crinum asiaticum*. **Ref:** 658.

**4240 Crinine**

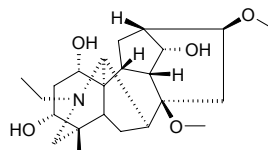
$C_{16}H_{17}NO_3$ (271.32). **Source:** GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). **Ref:** 4000.

**4241 (+)-Crinine**

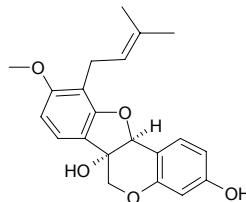
(+)-Vittatine $C_{16}H_{17}NO_3$ (271.32). mp 207~208°C (sub). **Pharm:** AChE inhibitor ($IC_{50} = (461 \pm 14) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$)^[4952]; antibacterial (*Staphylococcus aureus*, IZD = 19 mm, MIC = 63 $\mu\text{g/mL}$; *Escherichia coli*, IZD = 22 mm)^[3829]; antifungal (*Candida albicans*, IZD = 17 mm, MIC = 31 $\mu\text{g/mL}$)^[3829]. **Source:** GU TING HUA *Amaryllis belladonna* (bulb), SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], *Crinum moorei*. **Ref:** 6, 3829, 4952.

**4242 Crispulidine**

$C_{23}H_{37}NO_5$ (407.56). $[\alpha]_D^{20} = 0^\circ$ ($c = 0.9$, CHCl_3). **Source:** TU ER QI CUI QUE HUA *Delphinium crispulum*. **Ref:** 1913.

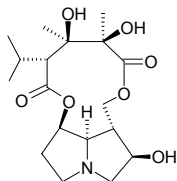
**4243 Cristacarpin**

3,6a-Dihydroxy-9-methoxy-10- γ,γ -dimethylallylpterocarpan [74515-47-2] $C_{21}H_{22}O_5$ (354.41). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*, *Micrococcus lysodeikticus*, all *in vitro*); antibacterial (*Escherichia coli*, MIA = 0.10 μg , control Chloramphenicol, MIA = 0.001 μg ; *Staphylococcus aureus*, MIA = 0.01 μg , Chloramphenicol, MIA = 0.0001 μg ; *Bacillus subtilis*, MIA = 0.01 μg , Chloramphenicol, MIA = 0.0001 μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.05 μg , control Miconazole, MIA = 0.0001 μg)^[5247]; antioxidant (DPPH free radical scavenger, TLC, MIA = 1.0 μg , $IC_{50} > 1000 \mu\text{g/mL}$; control Quercetin, MIA < 0.05 μg , $IC_{50} = 7 \mu\text{g/mL}$, Gallic acid, MIA < 0.05 μg , $IC_{50} = 4 \mu\text{g/mL}$; Ascorbic acid, MIA < 0.10 μg , $IC_{50} = 18 \mu\text{g/mL}$)^[5247]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*, JI KUAN CI TONG *Erythrina latissima* (stem wood), SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 658, 3400, 5247.

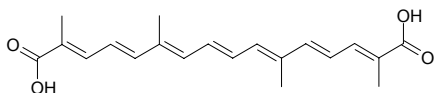


4244 Croalbidine

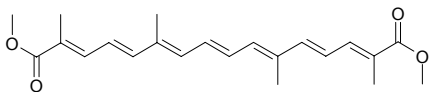
[41714-30-1] $C_{18}H_{29}NO_7$ (371.43). mp 208–209°C. Source: HUANG HUA DI DING *Crotalaria albida*. Ref: 6.

**4245 α -Croceetin**

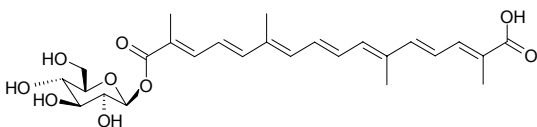
[27876-94-4] $C_{20}H_{24}O_4$ (328.41). mp (*trans*) 285°C. Pharm: Choleric (rbt with ligated common bile duct, inhibits present of bilirubin in blood); reduces scleratheroma incidence (rbt fed with cholesterol); LD₅₀ (mus, sc, sodium salt) = 5g/kg. Source: ZANG HONG HUA *Crocus sativus*, ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.0048%dw)^[4653], ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 4, 658, 4653, 5501.

**4246 Crocetin dimethyl ester**

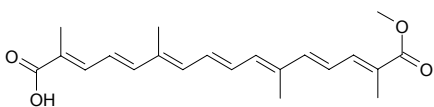
$C_{22}H_{28}O_4$ (356.47). mp (*cis*) 141°C, (*trans*) 222.5°C. Source: JIU BI YING *Ilex rotunda*, ZANG HONG HUA *Crocus sativus*. Ref: 6.

**4247 Crocetin mono(β -D-glucosyl) ester**

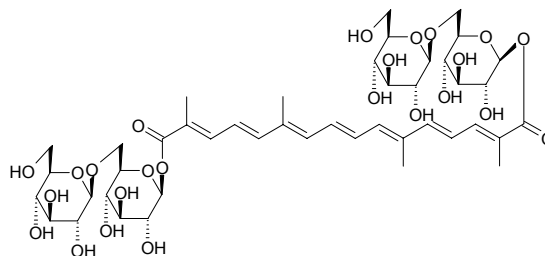
$C_{26}H_{34}O_9$ (490.56). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.0017%dw). Ref: 4653.

**4248 Crocetin monomethyl ester**

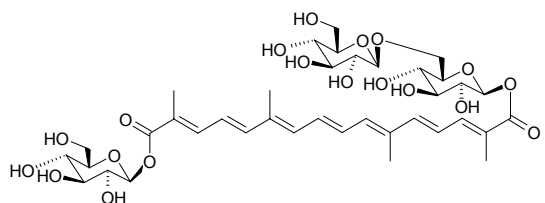
$C_{21}H_{26}O_4$ (342.44). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.0014%dw). Ref: 4653.

**4249 Crocin**

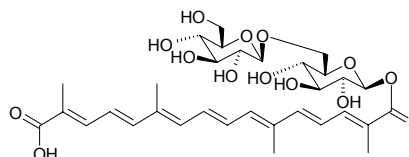
Crocin-1 [42553-65-1] $C_{44}H_{64}O_{24}$ (976.99). Pharm: Choleric (rbt with ligated common bile duct, inhibits presence of bilirubin in blood and increases choleresis); tyrosinase inhibitor (mushroom tyrosinase, spectrophotometry method of Mason and Peterson, IC₅₀ = 140 μ mol/L, control Kojic acid, IC₅₀ = 235 μ mol/L)^[4653]. Source: JU SE MAO RUI HUA *Verbascum phlomoides*, MEI LI FAN HONG HUA *Crocus speciosus* (in 1960, the compound was isolated from the plant by R.Entsche, et al.)^[5505], SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: content scope = 0.105%–1.101%^[5501], mean content = 0.202%^[5508]), YE HUA *Nyctanthes arbor-tristis*. Ref: 2, 658, 4653, 5501, 5505, 5508.

**4250 Crocin 2**

$C_{38}H_{54}O_{19}$ (814.84). Source: ZANG HONG HUA *Crocus sativus* (stigma, yield = 1.45%dw). Ref: 4653.

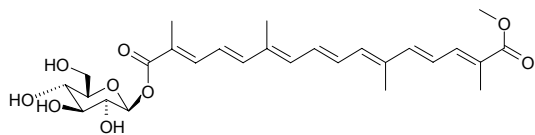
**4251 Crocin 3**

$C_{32}H_{44}O_{14}$ (652.70). Pharm: Tyrosinase inhibitor (mushroom tyrosinase, spectrophotometry method of Mason and Peterson, IC₅₀ = 0.96mmol/L, control Arbutin, IC₅₀ = 24mmol/L, Hydroquinone, IC₅₀ = 4.5mmol/L, Kojic acid, IC₅₀ = 235 μ mol/L)^[4653]. Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.174%dw). Ref: 4653.

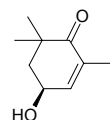


4252 Crocin 4

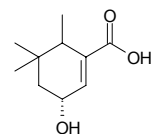
$C_{27}H_{36}O_9$ (504.58). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.282%dw). Ref: 4653.

**4253 Crocusatin A**

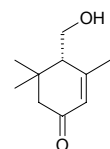
$C_9H_{14}O_2$ (154.21). Colorless oil, $[\alpha]_D = -45^\circ$ ($c = 0.06$, MeOH). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**4254 Crocusatin B**

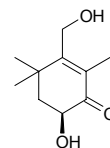
$C_{10}H_{16}O_3$ (184.24). Colorless powder, $[\alpha]_D = +71^\circ$ ($c = 0.07$, MeOH). Pharm: Tyrosinase inhibitor (333.3 $\mu\text{mol/L}$, InRt = 11.5%; control Kojic acid, 333.3 $\mu\text{mol/L}$, InRt = 59.8%). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**4255 Crocusatin C**

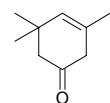
$C_{10}H_{16}O_2$ (168.24). Colorless oil, $[\alpha]_D = -63^\circ$ ($c = 0.06$, MeOH). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**4256 Crocusatin D**

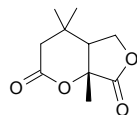
$C_{10}H_{16}O_3$ (184.24). Colorless oil, $[\alpha]_D = -42^\circ$ ($c = 0.07$, MeOH). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**4257 Crocusatin E**

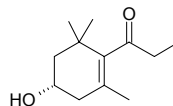
$C_9H_{14}O$ (138.21). Colorless oil. Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**4258 Crocusatin F**

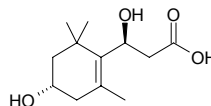
$C_{10}H_{14}O_4$ (198.22). Colorless oil, $[\alpha]_D^{25} = -58^\circ$ ($c = 0.012$, MeOH). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00022%dw). Ref: 4653.

**4259 Crocusatin G**

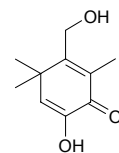
$C_{12}H_{20}O_2$ (196.29). Colorless oil, $[\alpha]_D^{25} = +54^\circ$ ($c = 0.05$, C_3H_5N); $[\alpha]_D^{25} = +72^\circ$ ($c = 0.03$, MeOH). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00031%dw). Ref: 4653.

**4260 Crocusatin H**

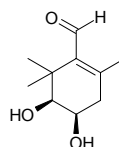
$C_{12}H_{20}O_4$ (228.29). Colorless needles, $[\alpha]_D^{25} = +43^\circ$ ($c = 0.02$, MeOH). Pharm: Tyrosinase inhibitor (mushroom tyrosinase, spectrophotometry method of Mason and Peterson, $IC_{50} = 0.87\text{mmol/L}$, control Arbutin, $IC_{50} = 24\text{mmol/L}$, Hydroquinone, $IC_{50} = 4.5\text{mmol/L}$, Kojic acid, $IC_{50} = 235\mu\text{mol/L}$). Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00035%dw). Ref: 4653.

**4261 Crocusatin I**

$C_{10}H_{14}O_3$ (182.22). Colorless oil. Source: ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00006%dw). Ref: 4653.

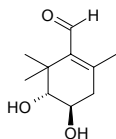
**4262 Crocusatin J**

$C_{10}H_{16}O_3$ (184.24). Colorless oil, $[\alpha]_D^{25} = +68^\circ$ ($c = 0.02$, MeOH). Pharm: Tyrosinase inhibitor (*in vitro*, very weak). Source: ZANG HONG HUA *Crocus sativus* (petal: yield = 0.00053%). Ref: 3015.

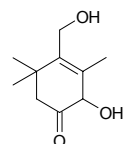


4263 Crocusatin K

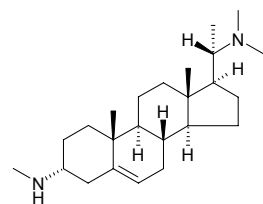
$C_{10}H_{16}O_3$ (184.24). Colorless oil, $[\alpha]_D^{25} = +18^\circ$ ($c = 0.02$, MeOH). **Pharm:** Tyrosinase inhibitor (*in vitro*, $IC_{50} = 260\mu\text{mol/L}$). **Source:** ZANG HONG HUA *Crocus sativus* (petal: yield = 0.00078%). **Ref:** 3015.

**4264 Crocusatin L**

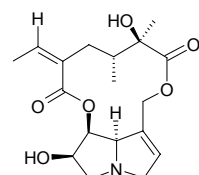
$C_{10}H_{16}O_3$ (184.24). Colorless oil, $[\alpha]_D^{25} = +54^\circ$ ($c = 0.02$, MeOH). **Pharm:** Tyrosinase inhibitor (*in vitro*, $IC_{50} = 1.0\text{mmol/L}$). **Source:** ZANG HONG HUA *Crocus sativus* (petal: yield = 0.00053%). **Ref:** 3015.

**4265 Croomionidine**

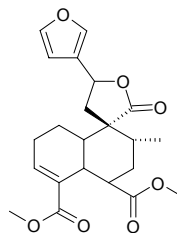
$C_{24}H_{42}N_2$ (358.62). crystals, mp 150~152°C, $[\alpha]_D^{25} = -120^\circ$ ($c = 0.15$, MeOH). **Source:** JIN GANG DA *Croomia japonica*. **Ref:** 261.

**4266 Crotalaburnine**

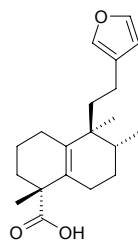
Anacrotine [5096-49-1] $C_{18}H_{25}NO_6$ (351.40). Hydrate: brown acicular crystals (methanol), mp 180°C (blistering). **Pharm:** Anti-inflammatory (rat, tampon granuloma caused by carrageenan or hyaluronidase, 20mg/(kg·d) sc, 6d). **Source:** JIN LIAN HUA ZHU SHI DOU *Crotalaria laburnifolia*, GUANG YE ZHU SHI DOU *Crotalaria incana*, MEI ZHOU YE BAI HE *Crotalaria anagyroides*. **Ref:** 661.

**4267 Crotoacorylifuran**

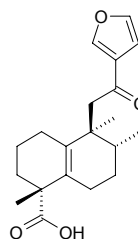
[61661-32-3] $C_{22}H_{26}O_7$ (402.45). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 4552.

**4268 Crotohalimaneic acid**

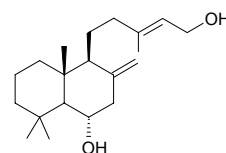
$C_{20}H_{28}O_3$ (316.44). Viscous transparent oil, $[\alpha]_D^{25} = +36^\circ$ ($c = 0.94$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, hmn tumor cell cultures: BT474, 7.5 $\mu\text{g/mL}$; CHAGO, 0.1 $\mu\text{g/mL}$; HepG2, 0.2 $\mu\text{g/mL}$; Kato3, 0.4 $\mu\text{g/mL}$; SW620, 0.2 $\mu\text{g/mL}$). **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem cortex). **Ref:** 4930.

**4269 Crotohalimoneic acid**

$C_{20}H_{26}O_4$ (330.43). White crystal solid, mp 168~170°C, $[\alpha]_D^{25} = +86.5^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, hmn tumor cell cultures: BT474, 0.1 $\mu\text{g/mL}$; CHAGO, 0.1 $\mu\text{g/mL}$; HepG2, 5.2 $\mu\text{g/mL}$; Kato3, 8.2 $\mu\text{g/mL}$; SW620, 0.1 $\mu\text{g/mL}$). **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem cortex). **Ref:** 4930.

**4270 Crotonadiol**

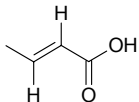
8(17),13-Labdadiene-6 α ,15-diol $C_{20}H_{34}O_2$ (306.49). Colorless oil, $[\alpha]_D^{25} = -28^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 2282.



4271 Crotonic acid

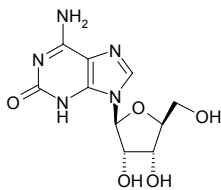
Butenoic acid [3724-65-0] C₄H₆O₂ (86.09). Source: BA DOU *Croton tiglium*.

Ref: 2.

**4272 Crotonoside**

2-Hydroxy-6-aminopurine-9-β-D-ribofuranoside [1818-71-9] C₁₀H₁₃N₅O₅

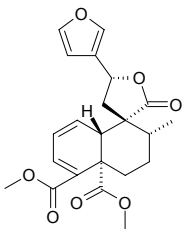
(283.25). Source: BA DOU *Croton tiglium*. Ref: 2.

**4273 Crotozambefuran A**

15,16-Epoxy-1,3,13(16),14-clerodetraen-20,12-olide-18,19-dioic acid dimethylester C₂₂H₂₄O₇ (400.43). White solid, mp 143~146°C, [α]_D²⁵ = -6.7°

(c = 0.6, MeOH). Source: ZAN BI XI BA DOU *Croton zambesicus*. Ref:

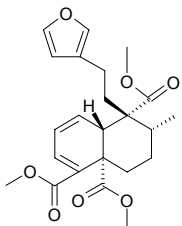
1953.

**4274 Crotozambefuran B**

15,16-Epoxy-1,3,13(16),14-clerodetraen-18,19,20-trioic acid trimethylester C₂₃H₂₈O₇ (416.48). White needles (hexane-EtOAc), mp 108~109°C, [α]_D²⁵ =

-46.7° (c = 0.09, MeOH). Source: ZAN BI XI BA DOU *Croton zambesicus*.

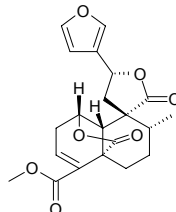
Ref: 1953.

**4275 Crotozambefuran C**

15,16-Epoxy-3,13(16),14-clerodatrien-19,1α:20,12-diolide-18-oic acid methylester C₂₁H₂₂O₇ (386.41). White powder (hexane-EtOAc), mp 242°C,

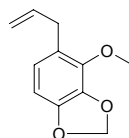
[α]_D²⁵ = -25.0° (c = 0.11, MeOH). Source: ZAN BI XI BA DOU *Croton*

zambesicus. Ref: 1953.

**4276 Croweacin**

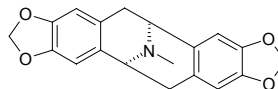
[484-34-4] C₁₁H₁₂O₃ (192.22). Source: XI XIN *Asarum sieboldii*, LIAO XI

XIN *Asarum heterotropoides* var. *mandshuricum*. Ref: 2, 660.

**4277 Crychine**

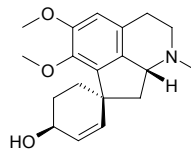
C₁₉H₁₇NO₄ (323.35). Source: HOU KE GUI *Cryptocarya chinensis* (wood).

Ref: 3092.

**4278 Cryprochine**

[147127-62-6] C₁₉H₂₅NO₃ (315.42). Source: HOU KE GUI *Cryptocarya*

chinensis (wood). Ref: 3092.

**4279 (S)-Cryptodorine**

C₁₈H₁₅NO₄ (309.32). [α]_D²² = +19.67° (c = 0.001, CHCl₃). Pharm: Antileish-

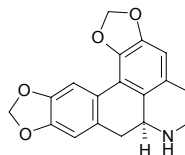
manial (*Leishmania panamensis*, IC₅₀ = (6±0.08)μmol/L, control

Amphotericin B, IC₅₀ = (0.1±0.004)μmol/L; *Leishmania mexicana*, IC₅₀ =

(3±0.65)μmol/L, Amphotericin B, IC₅₀ = (0.1±0.004)μmol/L; macrophage,

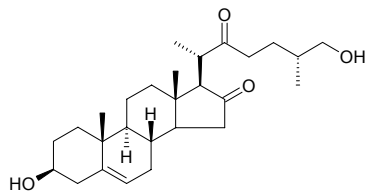
IC₅₀ = (64±0.03)μmol/L, SI = 21.3; HFF, IC₅₀ = (58±0.07)μmol/L, SI =

19.3). Source: JING JI GUA TAI MU *Gutteria dumetorum*. Ref: 5424.

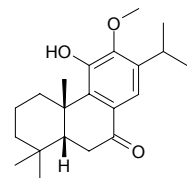


4280 Cryptogenin

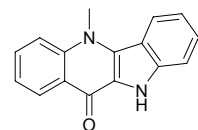
[16755-52-5] C₂₇H₄₂O₄ (430.63). mp 187~189°C. Source: YU ER QI *Trillium camtschaticum*. Ref: 6.

**4281 Cryptojaponol**

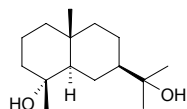
[16755-52-5] C₂₁H₃₀O₃ (330.47). mp 204~205°C, [α]_D²⁵ = +49° (c = 1.0, CHCl₃). Pharm: Cytotoxic (A2780, IC₅₀ = 34.2 μg/mL, control Actinomycin D, IC₅₀ = 0.001 μg/mL; P388, IC₅₀ > 20 μg/mL; LNCaP, IC₅₀ > 20 μg/mL; KB, IC₅₀ > 20 μg/mL; Col2, IC₅₀ > 20 μg/mL; LU1, IC₅₀ > 20 μg/mL)^[5400]; 12(S)-LOX inhibitor (hmn Platelets, 12(S)-HETE Production inhibitor, IC₅₀ = 85.08 μmol/L, control Baicalein, IC₅₀ = 24.6 μmol/L)^[4980]. Source: DU SONG SHI *Juniperus rigida*, LIU SHAN *Cryptomeria fortunei*, OU ZHOU CI BAI *Juniperus communis* (wood), XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 6, 4980, 5400.

**4282 Cryptolepinone**

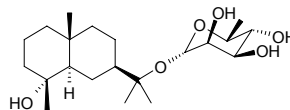
C₁₆H₁₂N₂O (248.29). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells, CD = 0.02 μg/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, 83% at 10 μg/mL)^[5038]. Source: HUANG HUA REN *Sida acuta*. Ref: 5038.

**4283 Cryptomeridiol**

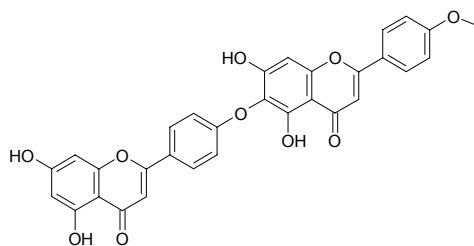
C₁₅H₂₈O₂ (240.39). Pharm: Cytotoxic inactive (HeLa, IC₅₀ > 200 μg/mL, control Mitomycin C, IC₅₀ = 1.7 μg/mL)^[4092]. Source: TUAN JI AI NA XIANG *Blumea glomerata*. Ref: 4092.

**4284 Cryptomeridiol 11-α-L-rhamnoside**

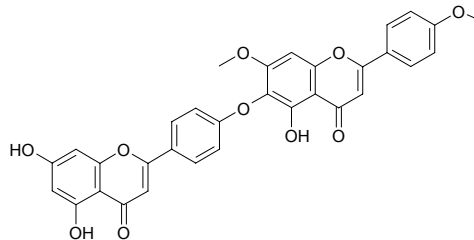
C₂₁H₃₈O₆ (386.53). Transparent rectangular crystals (EtOAc), mp 189~190°C, [α]_D²⁵ = -13.3° (c = 0.03, CHCl₃). Pharm: Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 0.01 μg/mL, Hep2,2,15, IC₅₀ = 0.36 μg/mL). Source: YI LAN *Cananga odorata* (fruit). Ref: 3055.

**4285 Cryptomerin A**

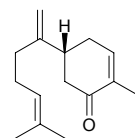
Hinokiflavone 4'''-methylether [22012-97-1] C₃₁H₂₀O₁₀ (552.50). mp 308~310°C. Source: LIU SHAN *Cryptomeria fortunei*. Ref: 6.

**4286 Cryptomerin B**

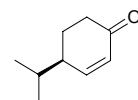
Hinokiflavone 4'''',7'''-dimethylether [22012-98-2] C₃₂H₂₂O₁₀ (566.53). mp 302~303°C (dec). Source: LIU SHAN *Cryptomeria fortunei*. Ref: 6.

**4287 Cryptomerion**

[5988-72-7] C₁₅H₂₂O (218.34). Colorless oil, [α]_D²³ = -31.4° (c = 0.1, CHCl₃). Source: KUAN DONG HUA *Tussilago farfara* (flower bud), LIU SHAN *Cryptomeria fortunei*. Ref: 6, 3531.

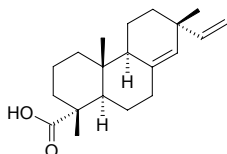
**4288 Cryptone**

[500-02-7] C₉H₁₄O (138.21). bp (-) 98~100°C/10mmHg, (±) 103°C/17mmHg. Source: HU JIAO *Piper nigrum*. Ref: 6.

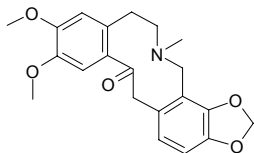


4289 Cryptopimaric acid

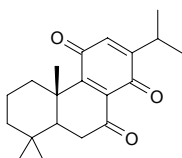
[471-74-9] C₂₀H₃₀O₂ (302.46). Colorless acicular crystals (mineral ether), mp 166~168°C, $[\alpha]_D^{24} = -16^\circ$ ($c = 0.43$, ethanol). **Pharm:** Antineoplastic (P₃₈₈, IC₅₀ = 12.5µg/mL); 15-lipoxygenase inhibitor (soy, IC₅₀ = 0.65mmol/L). **Source:** CI GU *Sagittaria sagittifolia*, CHOU BAI *Sabina vulgaris*, JI MAO SONG *Podocarpus imbricatus*, LIU SHAN *Cryptomeria fortunei*. **Ref:** 6, 520, 544, 658.

**4290 Cryptopine**

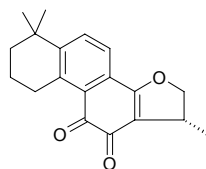
Cryptocavine [482-74-6] C₂₁H₂₃NO₅ (369.42). Hexapristmatic or lamellar crystals (benzene), mp 220~221°C, 221~223°C. **Pharm:** Similar action with narceine; LD₅₀ (mus, ip) = 0.2mg/kg. **Source:** BAI QU CAI *Chelidonium majus*, BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content = 0.02%)^[5508], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], HE BAO MU DAN GEN *Dicentra spectabilis*, HE QING HUA *Hylomecon japonica*, JI YING SU *Argemone mexicana*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)^[5508], JU HUA HUANG LIAN *Corydalis pallida*, MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content = 0.03%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.04%)^[5508], XIAO HUA QIU GUO ZI JIN *Fumaria parviflora*, YA PIAN *Papaver somniferum*, YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YAO YONG QIU GUO ZI JIN *Fumaria officinalis*, YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508], YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. **Ref:** 6, 661, 5508.

**4291 Cryptoquinone**

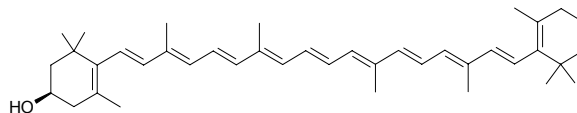
C₂₀H₂₆O₃ (314.43). Red needles, mp 105~106°C, $[\alpha]_D^{25} = -680^\circ$ ($c = 0.1$, CHCl₃). **Pharm:** Antifungal (*Pyricularia oryzae* and *Alternaria alternata*); cytotoxic (lymphoid neoplasm P₃₈₈ cells, IC₅₀ = 0.26µg/mL). **Source:** RI BEN LIU SHAN *Cryptomeria japonica*. **Ref:** 2015.

**4292 Cryptotanshinone**

15,17-Dihydropantanshinone IIa [35825-57-1] C₁₉H₂₀O₃ (296.37). mp 191°C. **Pharm:** Antibacterial (*Staphylococcus aureus* and its drug-resistant strains, hmn *Mycobacterium tuberculosis* H37Rv, *in vitro*); acetylcholinesterase (AChE) inhibitor (IC₅₀ = 7.0µmol/L, Argentatin A, IC₅₀ = 42.8µmol/L)^[4944]; MAO A inhibitor (hmn recombinant MAO A, IC₅₀ = 80µmol/L)^[5032]; iNOS inhibitor (RAW267.4 cells, LPS-induced, IC₅₀ = 8.4µmol/L)^[5032]; immunosuppressant (lymphocyte transformation assay control group concanavalin A, 5µg/mL, InRt = 17%, 20µg/mL, InRt = 36%, 80µg/mL, InRt = 42%, control Dexamethasone, 50µg/mL, InRt = 63%)^[4260]. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content scope = 0.040%~1.141%, mean content = 0.399%)^[5508], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: mean content = 0.33%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.034%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.004%)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.002%)^[5508], LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.126%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = trace)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.015%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = 0.006%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.145%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content scope = 0.026%~0.36%, mean content = 0.193%)^[5508], ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.498%)^[5508]. **Ref:** 2, 658, 4260, 4944, 5032, 5508.

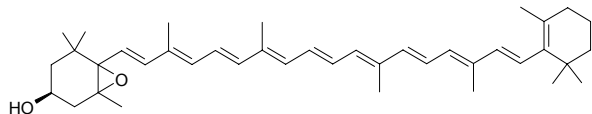
**4293 β-Cryptoxanthin**

[472-70-8] C₄₀H₅₆O (552.89). mp 169°C. **Pharm:** Yellow pigment. **Source:** FAN MU GUA *Carica papaya*, GOU QI ZI *Lycium chinense*, HONG HAI JIAO *Capsicum annum*, HUANG BAI HE *Lilium hansonii*, MA TI YE *Caltha palustris*, NING XIA GOU QI ZI *Lycium barbarum*, SUAN JIANG *Physalis alkekengi*, YU SHU SHU *Zea mays*. **Ref:** 2, 658, 660.

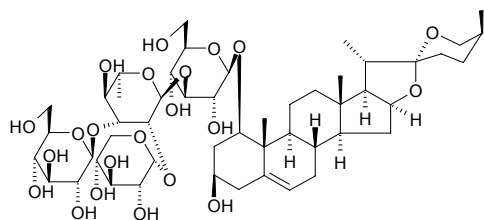


4294 Cryptoxanthin epoxide

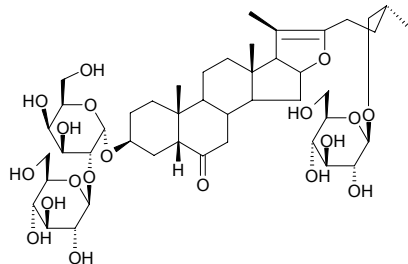
$C_{40}H_{56}O_2$ (568.89). mp 154°C. Source: FAN MU GUA *Carica papaya*. Ref: 6.

**4295 C^{THD}0233276-10**

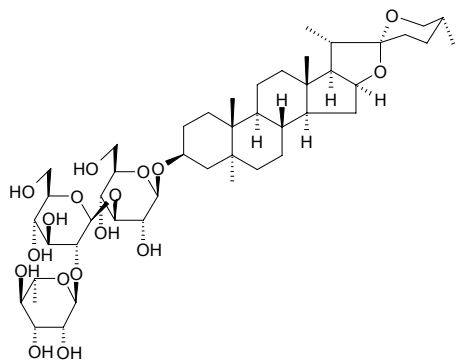
$C_{50}H_{80}O_{22}$ (1033.18). Pharm: Antineoplastic. Source: *Brodiaea californica*. Ref: 2165.

**4296 C^{THD}0233276-15**

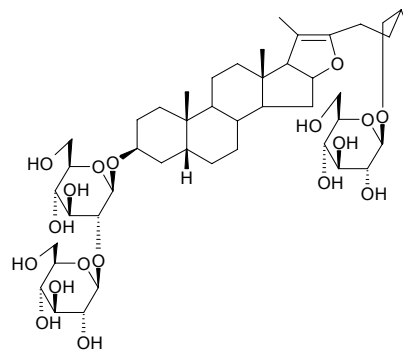
$C_{45}H_{72}O_{19}$ (917.06). Pharm: Platelet aggregation inhibitor (induced by ADP, $IC_{50} = 0.020\mu\text{mol/L}$). Source: XIE BAI *Allium macrostemon*, JIU CONG *Allium porrum*, DA SUAN *Allium sativum*. Ref: 2165.

**4297 C^{THD}0233276-2**

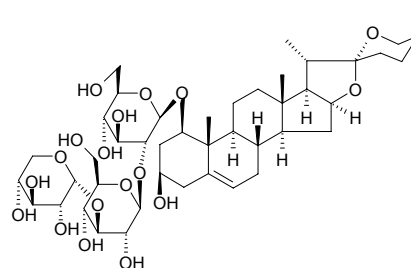
$C_{46}H_{76}O_{17}$ (901.11). Pharm: Phosphatase inhibitor (HeLa cell stimulated by TPA and joined by ^{32}P). Source: MAI KE LIN JIU *Allium macleanii*, SHAN JIU *Allium senescens*. Ref: 2165.

**4298 C^{THD}0233276-21**

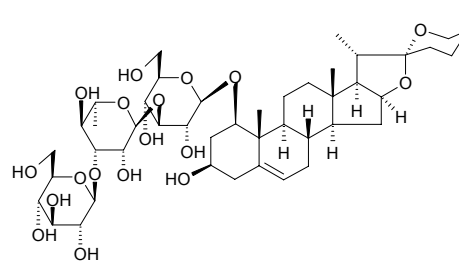
$C_{43}H_{74}O_{18}$ (903.08). Pharm: Free radical scavenger ($\cdot\text{OH}$ free radical). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2165.

**4299 C^{THD}0233276-4**

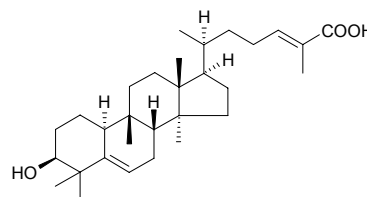
$C_{44}H_{70}O_{18}$ (887.04). Pharm: Antineoplastic (S_{180} Sarcoma, EAC). Source: DUAN TING SHAN MAI DONG *Liriope muscari*. Ref: 2165.

**4300 C^{THD}0233276-9**

$C_{45}H_{72}O_{18}$ (901.06). Pharm: Antineoplastic. Source: *Brodiaea californica*. Ref: 2165.

**4301 C^{THD}0384-2**

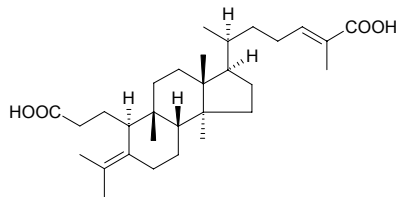
$C_{30}H_{48}O_3$ (456.72). Pharm: Antifungal (YNG-CA, $IC_{50} = 2.9\mu\text{g/mL}$; YNG-CG, $IC_{50} = 2.3\mu\text{g/mL}$). Source: DA HONG GU *Russula lepida*. Ref: 2075.



4302 C⁷HD0384-3

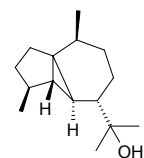
C₃₀H₄₈O₄ (472.71). **Pharm:** Farnesyl transferase inhibitor (IC₅₀ = 24 μg/mL).

Source: DA HONG GU *Russula lepida*. **Ref:** 2075.

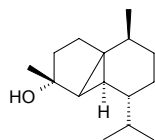
**4303 ent-Cubeban-11-ol**

C₁₅H₂₆O (222.37). Amorphous, [α]_D²⁰ = -60.1° (c = 0.29). **Source:** ZHAO WA

JIA KE TAI *Jackiella javanica*. **Ref:** 5303.

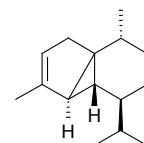
**4304 Cubeben camphor**

Cubebol C₁₅H₂₆O (222.37). mp 61–62°C. **Source:** BI CHENG QIE *Piper cubeba*. **Ref:** 6.

**4305 α-Cubebene**

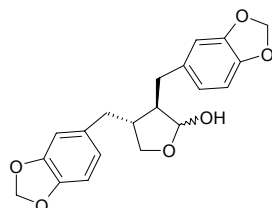
[17699-14-8] C₁₅H₂₄ (204.36). **Pharm:** Flavorant. **Source:** BI CHENG QIE

Piper cubeba, CHAI HU *Bupleurum chinense*, SHENG JIANG *Zingiber officinale*. **Ref:** 2, 658.

**4306 Cubebin**

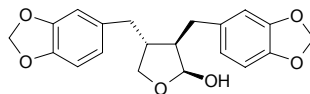
[18423-69-3] C₂₀H₂₀O₆ (356.38). mp 131–132°C. **Pharm:** Disinfectant

(bladder). **Source:** BI CHENG QIE *Piper cubeba*, SAN JIAO MA DOU LING *Aristolochia triangularis*. **Ref:** 6, 658.

**4307 (-)-Cubebin**

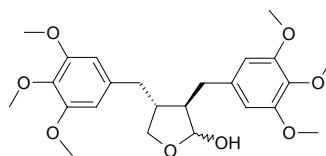
C₂₀H₂₀O₆ (356.38). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 9.1 μmol/L; CYP2D6, IC₅₀ = 35.5 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L).

Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00074%dw). **Ref:** 4797.

**4308 (-)-Cubebinin**

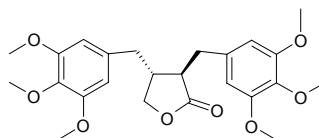
C₂₄H₃₂O₈ (448.52). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 15 μmol/L; CYP2D6, IC₅₀ > 100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L).

Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.0002%dw). **Ref:** 4797.

**4309 (-)-Cubebininolide**

C₂₄H₃₀O₈ (446.50). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 14.9 μmol/L; CYP2D6, IC₅₀ > 100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L).

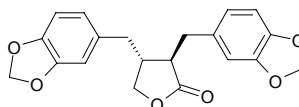
Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00074%dw). **Ref:** 4797.

**4310 Cubebinolide**

(-)-Hinokinin [26543-89-5] C₂₀H₁₈O₆ (354.36). mp (+) 64–65°C, (-) 64–65°C, (±)

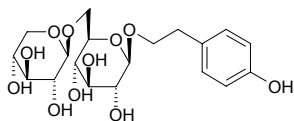
108°C. **Pharm:** Cytotoxic (A549, ED₅₀ = 9.2 μmol/L, ED₅₀ = 26.1 μg/mL, control Adriamycin, ED₅₀ = 0.01 μmol/L, ED₅₀ = 0.02 μg/mL; MCF7, ED₅₀ = 4.9 μmol/L, ED₅₀ = 13.8 μg/mL, Adriamycin, ED₅₀ = 0.1 μmol/L, ED₅₀ = 0.1 μg/mL; HT29, ED₅₀ = 4.0 μmol/L, ED₅₀ = 11.4 μg/mL, Adriamycin, ED₅₀ = 0.1 μmol/L, ED₅₀ = 0.1 μg/mL)^[5088]; CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 8 μmol/L; CYP2D6, IC₅₀ = 26.5 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L)^[4797];

synergist of pesticides. **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00083%dw), RI BEN BIAN BAI *Chamaecyparis obtusa*, TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 6, 658, 4797, 5088.

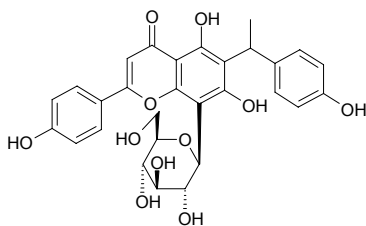


4311 Cuculoside

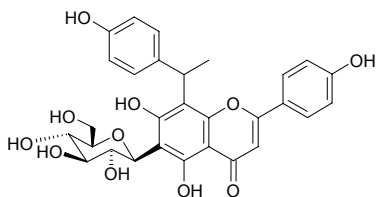
[123442-38-6] C₁₉H₂₈O₁₁ (432.43). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2.

**4312 Cucumerin A**

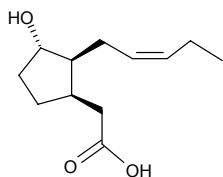
C₂₉H₂₈O₁₁ (552.54). Yellowish amorphous solid, mp 81–82°C, [α]_D²² = –224.3° (c = 0.01, DMSO). Pharm: Phytoalexin. Source: HUANG GUA *Cucumis sativus* (leaf: yield = 0.0007%fw). Ref: 4727.

**4313 Cucumerin B**

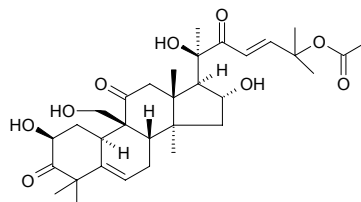
C₂₉H₂₈O₁₁ (552.54). Yellowish amorphous solid, mp 88–89°C, [α]_D²² = –181.1° (c = 0.01, DMSO). Pharm: Phytoalexin. Source: HUANG GUA *Cucumis sativus* (leaf: yield = 0.0008%fw). Ref: 4727.

**4314 Cucurbit acid**

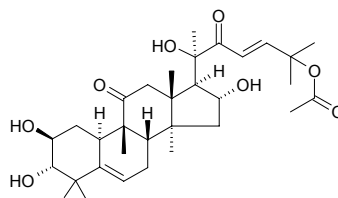
[58240-50-9] C₁₂H₂₀O₃ (212.29). Pharm: Plant growth regulator (inhibits growth of rice leaves). Source: XI HU LU *Cucurbita pepo*. Ref: 658.

**4315 Cucurbitacin A**

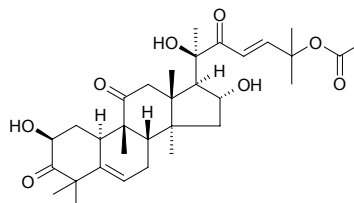
[6040-19-3] C₃₂H₄₆O₉ (574.72). mp 207–208°C. Pharm: Extremely bitter; LD₅₀ (rbt, iv) = 0.7mg/kg. Source: HU KE HUANG GUA *Cucumis hookeri*, HUANG GUA *Cucumis sativus*, MI GUO HUANG GUA *Cucumis myriocarpus*, BO PI HUANG GUA *Cucumis leptodermis*. Ref: 6, 658.

**4316 Cucurbitacin F 25-acetate**

C₃₂H₄₈O₈ (560.73). Colorless acicular crystals, mp 208–210°C. Source: XI HUA XUE DAN *Hemsleya graciliflora* [Syn. *Alsomitra graciliflora*]. Ref: 33.

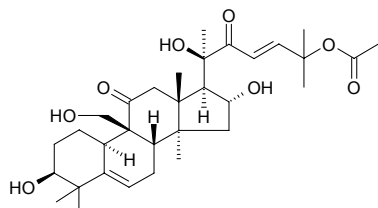
**4317 Cucurbitacin B**

Amarin; Fabacei II [6199-67-3] C₃₂H₄₆O₈ (558.72). mp 178–186°C. Pharm: Antineoplastic; cytotoxic (hmn cancer line NUGC-3, IC₅₀ = 0.22μg/mL, hmn cancer line HONE-1, IC₅₀ = 0.05μg/mL hmn cancer line A549, EC₅₀ < 2.5μg/mL, hmn cancer line MCF7, EC₅₀ < 2.5μg/mL)^[4267]; anti-hepatitis; anthelmintic; LD₅₀ (rbt, iv) = 0.5mg/kg, (mus, orl) = (1.0±0.07)mg/kg, (rat, sc) = 0.5mg/kg. Source: HU GUA *Lagenaria siceraria* var. *depressa*, GUA DI *Cucumis melo*, SI GUA *Luffa cylindrica*, HUANG GUA *Cucumis sativus*, YAO XI GUA *Citrullus colocynthis*, PEN GUA *Ecballium elaterium*, BAI XIE GEN *Bryonia alba*, FEI ZHOU HUANG GUA *Cucumis africanus*, SAN XING QU QU HUA *Iberis umbellata*, GUA LOU *Trichosanthes kirilowii*, YANG JIAO AO ZI *Strophanthus divaricatus*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4, 5, 6, 532, 658, 4267.

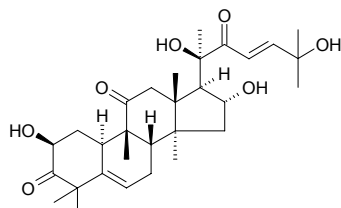


4318 Cucurbitacin C

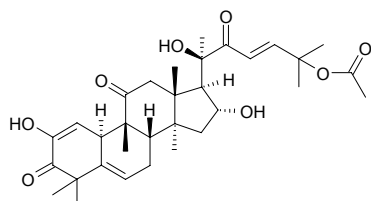
[5988-76-1] C₃₂H₄₈O₈ (560.73). mp 207.0–207.5°C. **Pharm:** Bitter principle. **Source:** HUANG GUA *Cucumis sativus*, KU HUANG GUA *Cucumis sativus* var. *hansil*. **Ref:** 6, 658.

**4319 Cucurbitacin D**

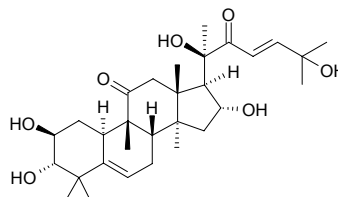
Elatericin [3877-86-9] C₃₀H₄₄O₇ (516.68). mp 149–153°C (dec). **Pharm:** Antineoplastic; antihypertensive; markedly enhances capillary permeability; laxative (animal model); LD₅₀ (mus, iv) = 0.96mg/kg, (cat, iv) = 0.9mg/kg, (dog, iv) = 1.0mg/kg. **Source:** BAI XIE GEN *Bryonia alba*, HONG BAI HE MU *Crinodendron hookerianum*, HUANG GUA *Cucumis sativus*, SAN XING QU QU HUA *Iberis umbellata*, *Gratiola* sp. **Ref:** 5, 6, 658.

**4320 Cucurbitacin E**

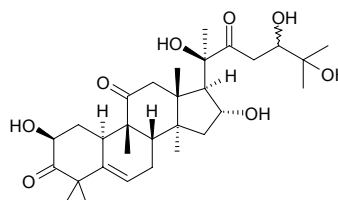
[18444-66-1] C₃₂H₄₄O₈ (556.70). mp 234°C (chloroform-methanol), [α]_D²⁰ = –64.3° (c = 1.64, chloroform). **Pharm:** Antineoplastic (S₁₈₀ *in vivo*, 5–15mg/kg, InRt = 40%–42%, EAC *in vivo*, 2.5–7.5mg/kg, InRt = 29%–73%); anti-gibberellin activity; anti-hepatitis; cytotoxic (KB *in vitro*, ED₅₀ = 0.01μg/mL, HeLa *in vitro*, ED₅₀ = 0.01–0.05μg/mL), cytotoxic (hmn cancer line NUGC-3, IC₅₀ = 0.34μg/mL; hmn cancer line HONE-1, IC₅₀ = 0.08μg/mL, hmn cancer line A549, EC₅₀ < 2.5μg/mL, hmn cancer line MCF7, EC₅₀ < 2.5μg/mL)^[4267]; LD₅₀ (mus, orl) = 340mg/kg. **Source:** BAI XIE GEN *Bryonia alba*, GUA DI *Cucumis melo*, PEN GUA *Ecballium elaterium*, SAN XING QU QU HUA *Iberis umbellata*, YAO SHUI BA JIAO *Gratiola officinalis*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). **Ref:** 658, 4267.

**4321 Cucurbitacin F**

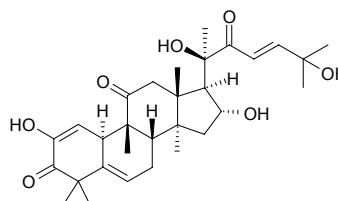
[5939-57-1] C₃₀H₄₆O₇ (518.70). **Pharm:** Antineoplastic. **Source:** AN GE LA HUANG GUA *Cucumis angolensis* HONG BAI HE MU *Crinodendron hookerianum*. **Ref:** 658.

**4322 Cucurbitacin H**

[751-69-2] C₃₀H₄₆O₈ (534.70). **Pharm:** Antineoplastic. **Source:** HONG BAI HE MU *Crinodendron hookerianum*, *Citrullus* sp. **Ref:** 658.

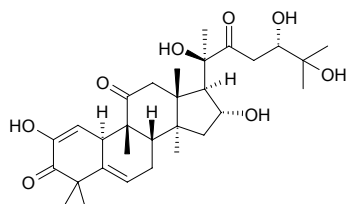
**4323 Cucurbitacin I**

[2222-07-3] C₃₀H₄₂O₇ (514.67). Acicular crystals (ethyl acetate–benzene), mp 148–149°C (dec), [α]_D = –52° (c = 1.56, chloroform); white crystals (ethyl acetate–benzene), mp 146–148°C, [α]_D²² = –56° (c = 1.0, ethanol). **Pharm:** Antineoplastic (S₁₈₀, *in vivo*, 0.25–1.00mg/kg, InRt = (5–44)%, EAC, *in vivo*, 0.25–1.00mg/kg, InRt = (0–30)%, EAC, 0.25–0.50mg/kg, biotic prolonged rate = (36–61)%; anti-gibberellin activity; cytotoxic (KB, *in vitro*, ED₅₀ = 0.005–0.010μg/mL, HeLa, *in vitro*, ED₅₀ = 0.01μg/mL); cytotoxic (hmn cancer line NUGC-3, IC₅₀ = 2.14μg/mL, hmn cancer line HONE-1, IC₅₀ = 0.89μg/mL, hmn cancer line A549, EC₅₀ < 2.5μg/mL, hmn cancer line MCF7, EC₅₀ < 2.5μg/mL)^[4267]. **Source:** PEN GUA *Ecballium elaterium*, BAI XIE GEN *Bryonia alba*, QU QU HUA *Iberis amara*, YAO SHUI BA JIAO *Gratiola officinalis*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). **Ref:** 661, 4267.

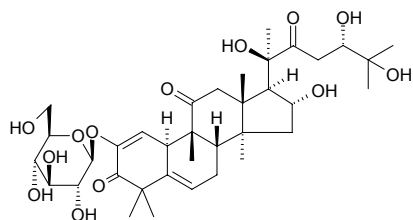


4324 Cucurbitacin J

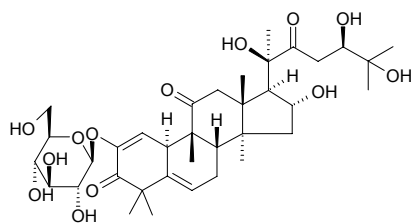
[5979-41-9] $C_{30}H_{44}O_8$ (532.68). Crystals (ethyl acetate), mp 200~202°C, $[\alpha]_D = -36^\circ$ (chloroform); white crystals (50% methanol), mp 198°C (dec), $[\alpha]_D^{22} = -30.4^\circ$ ($c = 1.0$, chloroform). **Pharm:** Antineoplastic; anti-gibberellin activity; cytotoxic (KB, *in vitro*, $ED_{50} = 0.1\text{--}1.0\mu\text{g/mL}$, HeLa, *in vitro*, $ED_{50} = 1\mu\text{g/mL}$). **Source:** WU JUAN XU XI GUA *Citrullus ecirrhosus*, NA SHI XI GUA *Citrullus naudinianus*, BAI XIE GEN *Bryonia alba*. **Ref:** 661.

**4325 Cucurbitacin J 2-O-β-glucopyranoside**

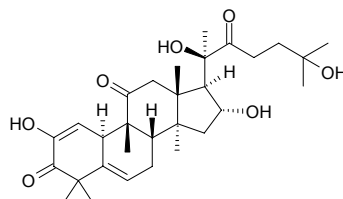
$C_{36}H_{54}O_{13}$ (694.82). Amorphous powder, $[\alpha]_D^{23} = -55.8^\circ$ ($c = 2.3$, MeOH). **Source:** SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. **Ref:** 1982.

**4326 Cucurbitacin K 2-O-β-glucopyranoside**

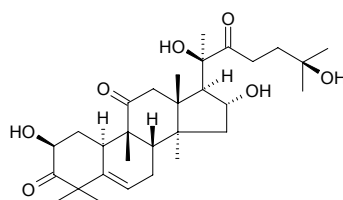
$C_{36}H_{54}O_{13}$ (694.82). Amorphous powder, $[\alpha]_D^{23} = -64.4^\circ$ ($c = 0.8$, MeOH). **Source:** SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. **Ref:** 1982.

**4327 Cucurbitacin L**

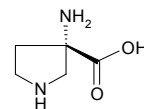
[1110-02-7] $C_{30}H_{44}O_7$ (516.68). Acicular crystals (dil. methanol), mp 140°C, $[\alpha]_D = -49^\circ$ (chloroform); white crystals (50% methanol), mp 124~127°C, $[\alpha]_D^{22} = -48^\circ$ ($c = 1.0$, ethanol). **Pharm:** Antineoplastic (animal Ehrlich ascites carcinoma *in vivo*, biotic prolonged rate = (38~42)%); cytotoxic (KB *in vitro*, $ED_{50} = 0.01\text{--}0.1\mu\text{g/mL}$, HeLa *in vitro*, $ED_{50} = 0.1\mu\text{g/mL}$). **Source:** BAI XIE GEN *Bryonia alba*, PEN GUA *Ecballium elaterium*, WU JUAN XU XI GUA *Citrullus ecirrhosus*, YAO XI GUA *Citrullus colocynthis*. **Ref:** 661.

**4328 Cucurbitacin R**

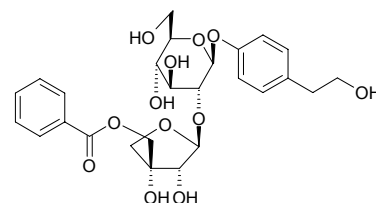
$C_{30}H_{46}O_7$ (518.70). **Pharm:** Anti-inflammatory (carrageenan-induced mouse paw edema, 4mg/kg, $InRt = 27\%$ at 5h)^[4970]. **Source:** TA YOU XIE GUA *Cayaponia tayuya* (root). **Ref:** 4970.

**4329 Cucurbitine**

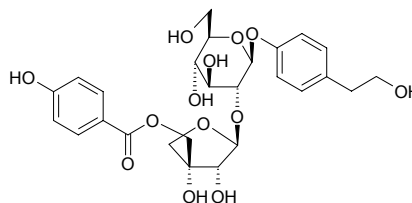
[6807-92-7] $C_5H_{10}N_2O_2$ (130.15). mp 260°C (dec). **Pharm:** Anthelmintic; causes slight shrinkage of liver (mus). **Source:** NAN GUA *Cucurbita moschata*, XI HU LU *Cucurbita pepo*, NAN GUA ZI *Cucurbita moschata*, TAO NAN GUA *Cucurbita pepo* var. *akoda*. **Ref:** 6, 658.

**4330 Cucurbitoside A**

$C_{26}H_{32}O_{12}$ (536.54). Amorphous powder, $[\alpha]_D^{25} = -76.1^\circ$ ($c = 1.1$, MeOH). **Source:** NAN GUA ZI *Cucurbita moschata* (seed). **Ref:** 4436.

**4331 Cucurbitoside B**

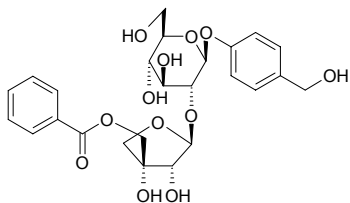
$C_{26}H_{32}O_{13}$ (552.54). Amorphous powder, $[\alpha]_D^{25} = -65.9^\circ$ ($c = 0.4$, MeOH). **Source:** NAN GUA ZI *Cucurbita moschata* (seed). **Ref:** 4436.



4332 Cucurbitoside C

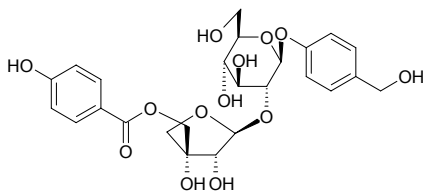
$C_{25}H_{30}O_{12}$ (522.51). Amorphous powder, $[\alpha]_D^{25} = -81.5^\circ$ ($c = 1.1$, MeOH).

Source: NAN GUA ZI *Cucurbita moschata* (seed). Ref: 4436.

**4333 Cucurbitoside D**

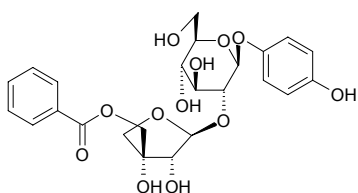
$C_{25}H_{30}O_{13}$ (538.51). Amorphous powder, $[\alpha]_D^{25} = -76.9^\circ$ ($c = 0.9$, MeOH).

Source: NAN GUA ZI *Cucurbita moschata* (seed). Ref: 4436.

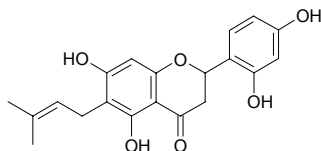
**4334 Cucurbitoside E**

$C_{24}H_{28}O_{12}$ (508.48). Amorphous powder, $[\alpha]_D^{25} = -77.0^\circ$ ($c = 0.3$, MeOH).

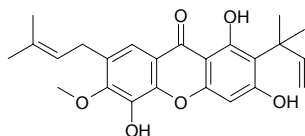
Source: NAN GUA ZI *Cucurbita moschata* (seed). Ref: 4436.

**4335 Cudraflavanone B**

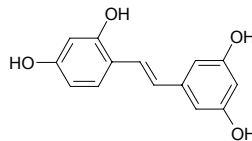
2',4',5,7-Tetrahydroxy-6-prenylflavanone $C_{20}H_{20}O_6$ (356.38). Resin (acetone-*n*-hexane), $[\alpha]_D^{24} = 0^\circ$ ($c = 0.20$, MeOH). Pharm: Antifungal (*Candida glabrata*, *Cryptococcus neoformans* and *Aspergillus fumigatus*, weak activity). Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00013%dw). Ref: 4713.

**4336 Cudrafrutixanthone**

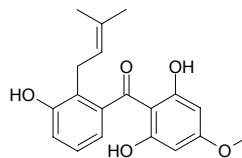
$C_{24}H_{26}O_6$ (410.47). Yellow amorphous powder. Source: ZHE TENG *Cudrania fruticosa* (root). Ref: 5074.

**4337 Cudranin**

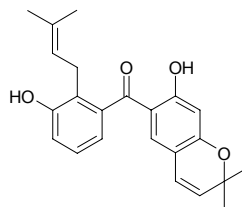
Oxyresveratrol; Tetrahydroxystilbene [4721-07-7] $C_{14}H_{12}O_4$ (244.25). mp 202°C. Pharm: Cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; antifungal (skin fungi in humans); inhibits respiration of cytoblast (rat, hepatic cells, in low concentration). Source: DA DA HE MIAN BAO GUO *Artocarpus dadah*, LA KOU SHA MIAN BAO GUO *Artocarpus lakoocha*, MAO YE LI LU *Veratrum grandiflorum*, SANG ZHI *Morus alba*, SANG CHENG *Machura pomifera*, SANG YE *Morus alba*, WEI JING BAI HE *Schoenocaulon officinale* (rhizome), *Cudrania* sp. Ref: 6, 658, 4210, 5038.

**4338 Cudranone**

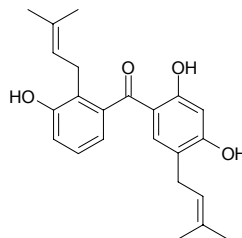
4-Methoxy-9-prenyl-2,6,10-trihydroxybenzophenone $C_{19}H_{20}O_5$ (328.37). Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.40$ mmol/L; HGF, $CC_{50} > 0.61$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00020%dw). Ref: 3025.

**4339 Cudraphenone A**

$C_{23}H_{24}O_4$ (364.45). Yellow oil. Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.17$ mmol/L; HGF, $CC_{50} = 0.43$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00011%dw). Ref: 3025.

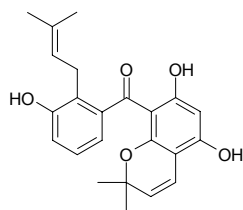
**4340 Cudraphenone B**

$C_{23}H_{26}O_4$ (366.46). Yellow oil. Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.036$ mmol/L; HGF, $CC_{50} = 0.09$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00018%dw). Ref: 3025.

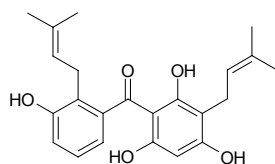


4341 Cudraphenone C

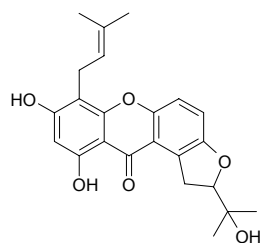
$C_{23}H_{24}O_5$ (380.44). Yellow oil. **Pharm:** Cytotoxic (HSC-2 cells, CC_{50} = 0.092mmol/L; HGF, CC_{50} = 0.19mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00010%dw). **Ref:** 3025.

**4342 Cudraphenone D**

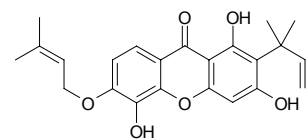
$C_{23}H_{26}O_5$ (382.46). Yellow oil. **Pharm:** Cytotoxic (HSC-2 cells, CC_{50} = 0.052mmol/L; HGF, CC_{50} = 0.19mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00046%dw). **Ref:** 3025.

**4343 Cudraxanthone J**

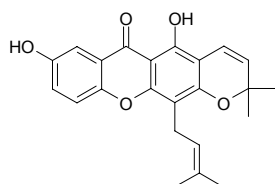
$C_{23}H_{24}O_6$ (396.44). **Source:** ZHE SHU *Cudrania tricuspidata*, *Morus* sp. **Ref:** 2513.

**4344 Cudraxanthone P**

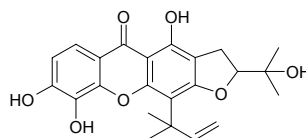
$C_{23}H_{24}O_6$ (396.44). Yellow prisms (MeOH), mp 166°C. **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00003%dw). **Ref:** 3025.

**4345 Cudraxanthone Q**

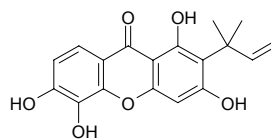
$C_{23}H_{22}O_5$ (378.43). Yellow needles (MeOH), mp 205°C. **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00003%dw). **Ref:** 3025.

**4346 Cudraxanthone R**

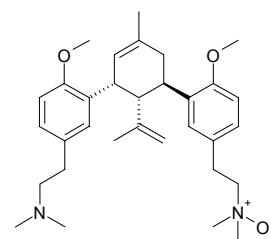
$C_{23}H_{24}O_7$ (412.44). Yellow prisms (MeOH), mp 237°C, $[\alpha]_D^{22} = +6.1^\circ$ ($c = 0.10$, acetone). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00003%dw). **Ref:** 3025.

**4347 Cudraxanthone S**

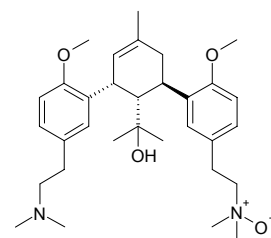
1,3,5,6-Tetrahydroxy-2-(1,1-dimethyl-2-propenyl)xanthone $C_{18}H_{16}O_6$ (328.32). Granule (acetone), mp 162°C (dec). **Pharm:** Antifungal (*Candida glabrata*, *Cryptococcus neoformans* and *Aspergillus fumigatus*, MIC = 2-4µg/mL). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00055%dw). **Ref:** 4713.

**4348 (-)-Culantramine N-oxide**

$C_{32}H_{46}N_2O_3$ (506.74). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

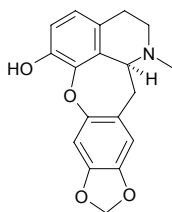
**4349 (-)-Culantraminol N-oxide**

$C_{32}H_{48}N_2O_4$ (524.75). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

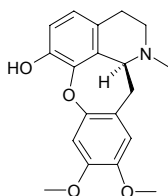


4350 Cularicine

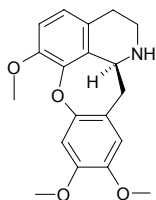
[2271-08-1] C₁₈H₁₇NO₄ (311.34). Pharm: Cytotoxic. Source: BANG ZHUANG ZI JIN *Corydalis claviculata*. Ref: 658.

**4351 Cularidine**

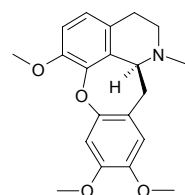
C₁₉H₂₁NO₄ (327.38). Pharm: Cytotoxic. Source: DOU ZHUANG HE BAO MU DAN *Dicentra cucullaria*, BANG ZHUANG ZI JIN *Corydalis claviculata*. Ref: 658.

**4352 Cularimine**

[479-42-5] C₁₉H₂₁NO₄ (327.38). Pharm: Antineoplastic. Source: SUI MAO HE BAO MU DAN *Dicentra eximia*. Ref: 658.

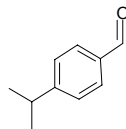
**4353 Cularine**

[479-39-0] C₂₀H₂₃NO₄ (341.41). Pharm: Anesthetic (rbt cornea); cytotoxic; enhances myocardial contractility; antihypertensive (rbt); uterine stimulant. Source: BANG ZHUANG ZI JIN *Corydalis claviculata*, DOU ZHUANG HE BAO MU DAN *Dicentra cucullaria*, E LE GANG HE BAO MU DAN *Dicentra oregana*, MEI LI HE BAO MU DAN *Dicentra formosa*, SUI MAO HE BAO MU DAN *Dicentra eximia*, WA SHI XIAO BO *Berberis valdiviana*. Ref: 658.

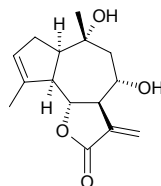
**4354 Cumaldehyde**

p-Isopropyl-benzaldehyde [122-03-2] C₁₀H₁₂O (148.21). bp 235~236°C.

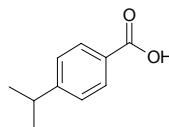
Pharm: Antiviral. Source: AN YE *Eucalyptus globulus*, DU QIN GEN *Cicuta virosa*, HUANG HUA HAO *Artemisia annua*, MO YAO *Commiphora myrrha* [Syn. *Commiphora molmo*], XI YE AN YE *Eucalyptus tereticornis*. Ref: 6, 658.

**4355 Cumambrin B**

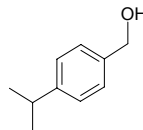
C₁₅H₂₀O₄ (264.32). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**4356 Cumic acid**

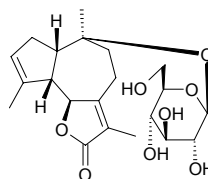
4-(1-Methylethyl)benzoic acid [536-66-3] C₁₀H₁₂O₂ (164.21). Source: ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 2, 660.

**4357 Cumic alcohol**

4-Isopropylbenzyl alcohol [536-60-7] C₁₀H₁₄O (150.22). bp 246°C. Source: HUA JIAO *Zanthoxylum bungeanum*. Ref: 6.

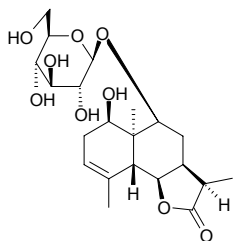
**4358 Cuminoside A**

(1*S*,5*S*,6*S*,10*S*)-10-Hydroxyguaia-3,7(11)-dien-12,6-olide
β-*D*-glucopyranoside C₂₁H₃₀O₈ (410.47). Amorphous powder, [α]_D²⁴ = -35°
(*c* = 2.3, MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 3395.

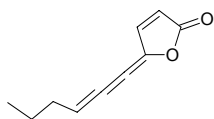


4359 Cuminoside B

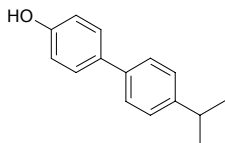
(1*R*,5*R*,6*S*,7*S*,9*S*,10*S*,11*R*)-1,9-Dihydroxyeudesm-3-en-12,6-olide
9-*O*- β -*D*-glucopyranoside] C₂₁H₃₂O₉ (428.48). Amorphous powder, $[\alpha]_D^{21} = -14^\circ$ ($c = 1.1$, MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 3395.

**4360 Cumulene**

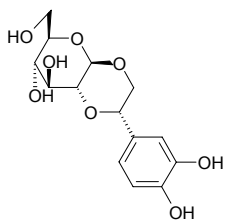
C₁₀H₁₀O₂ (162.19). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 6.

**4361 4-Cumylphenol**

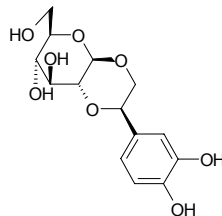
C₁₅H₁₆O (212.29). Colorless needles, mp 73~74°C. Source: LV ZAO JI GEN YING MAO ZAO *Chaetomorpha basiretorsa*. Ref: 4822.

**4362 Cuneataside A**

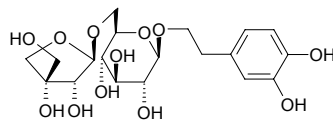
7 β -(3,4-Dihydroxyphenyl)-ethane 7,8-(2',1'-*O*- β -*D*-glucopyranosyl)-7,8-diol
C₁₄H₁₈O₈ (314.29). White amorphous powder, $[\alpha]_D^{20} = +45.0^\circ$ ($c = 0.10$, H₂O). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 30.0 μ mol/L, control Bakuchiol, MIC = 25.0 μ mol/L; *Micrococcus epidermidis*, MIC = 20.0 μ mol/L, Bakuchiol, MIC = 15.0 μ mol/L). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

**4363 Cuneataside B**

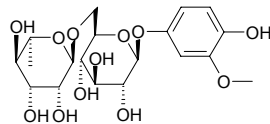
7 α -(3,4-Dihydroxyphenyl)-ethane 7,8-(2',1'-*O*- β -*D*-glucopyranosyl)-7,8-diol
C₁₄H₁₈O₈ (314.29). White amorphous powder, $[\alpha]_D^{20} = +65.8^\circ$ ($c = 0.10$, H₂O). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 20.0 μ mol/L, control Bakuchiol, MIC = 25.0 μ mol/L; *Micrococcus epidermidis*, MIC = 20.0 μ mol/L, Bakuchiol, MIC = 15.0 μ mol/L). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

**4364 Cuneataside C**

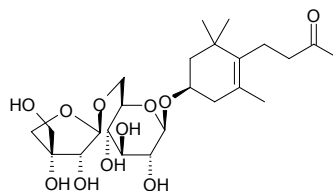
2-(3,4-Dihydroxyphenyl)
ethyl-*O*- β -*D*-apiofuranosyl-(1" \rightarrow 6')- β -*D*-glucopyranoside C₁₉H₂₈O₁₂ (448.43).
White amorphous powder, $[\alpha]_D^{20} = -70.1^\circ$ ($c = 0.10$, H₂O). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

**4365 Cuneataside D**

3-Methoxy-4-hydroxyphenyl-1-*O*- α -*L*-rhamnopyranosyl-(1" \rightarrow 6')- β -*D*-glucopyranoside C₁₉H₂₈O₁₂ (448.43). White amorphous powder, $[\alpha]_D^{20} = -60.3^\circ$ ($c = 0.10$, H₂O). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

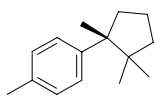
**4366 Cuneataside E**

4-[4 β -*O*- β -*D*-Apiofuranosyl-(1" \rightarrow 6')- β -*D*-glucopyranosyl-2,6,6-trimethyl-1-cyclohexen-1-yl]-butan-2-one C₂₄H₄₀O₁₁ (504.58). White amorphous powder, $[\alpha]_D^{20} = -81.7^\circ$ ($c = 0.10$, H₂O). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

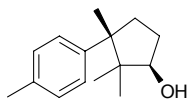


4367 Cuparene

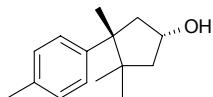
$C_{15}H_{22}$ (202.34). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], WU WEI ZI *Schisandra chinensis*. Ref: 2.

**4368 α -Cuparenol**

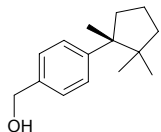
[21730-88-1] $C_{15}H_{22}O$ (218.34). mp 73°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4369 β -Cuparenol**

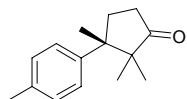
$C_{15}H_{22}O$ (218.34). Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4370 γ -Cuparenol**

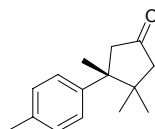
[4584-25-2] $C_{15}H_{22}O$ (218.34). bp 110°C/0.5mmHg. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4371 α -Cuparenone**

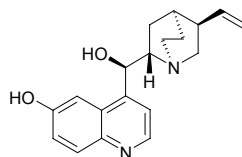
[16169-32-0] $C_{15}H_{20}O$ (216.33). mp (+) 52~53°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4372 β -Cuparenone**

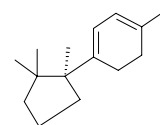
[28152-91-2] $C_{15}H_{20}O$ (216.33). bp 114~115°C/0.8mmHg. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4373 Cupreine**

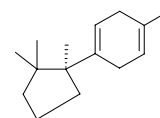
Hydroxycinchonine [524-63-0] $C_{19}H_{22}N_2O_2$ (310.40). mp 198°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**4374 α -Cuprenene**

$C_{15}H_{24}$ (204.36). bp 140~141°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

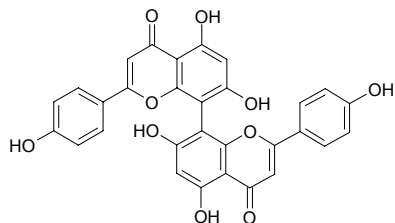
**4375 γ -Cuprenene**

$C_{15}H_{24}$ (204.36). bp 140~141°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4376 Cupressiflavone**

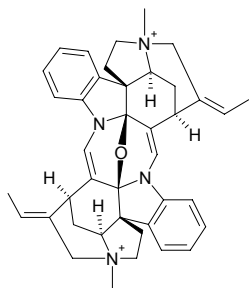
Cupressiflavone $C_{30}H_{18}O_{10}$ (538.47). mp > 360°C. Pharm: Cyclo nucleotide phosphodiesterase inhibitor; anti-HIV-1 inactive (*in vitro*)^[4234]. Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], CUI YUN CAO *Selaginella uncinata* (dried whole herb: content = 0.213%)^[5508], DA YE NAN YANG SHAN *Araucaria bidwillii*, DIAN ZHUANG JUAN BAI *Selaginella pulvinata* (dried whole herb: mean content = 0.113%)^[5508], E MEI JUAN BAI *Selaginella omeiensis* (dried whole herb: content = 0.042%)^[5508], HAN SHENG JUAN BAI *Selaginella stauntoniana* (dried whole herb: content = 0.470%)^[5508], JIANG NAN JUAN BAI *Selaginella moellendorffii* (dried whole herb: mean content = 0.119%)^[5508], JUAN BAI *Selaginella tamariscina* (dried whole herb: mean content = 0.131%)^[5508], LV GAN BAI *Cupressus arizonica*, MAN SHENG JUAN BAI *Selaginella davidii* (dried whole herb: content = 0.100%)^[5508], MAO ZHI JUAN BAI *Selaginella braunii* (dried whole herb: mean content = 0.279%)^[5508], PA SHI BEI KE SHAN *Agathis palmerstoni*, PING PU YUAN BAI *Juniperus horizontalis*, XI FANG CI BAI *Juniperus occidentalis* (leaf), YAN ZHOU JUAN BAI *Selaginella involvens* (dried whole herb: content = 0.094%)^[5508], ZHONG

HUA JUAN BAI *Selaginella sinensis* (dried whole herb: content = 0.438%)^[5508]. Ref: 6, 658, 4234, 5508.



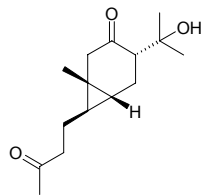
4377 C-Curarine

[7168-64-1] C₄₀H₄₄N₄O²⁺ (596.82). Pharm: Causes paralysis; supertoxic agent (neuromuscular blocker, one of main component of Calabash curare). Source: FEN CHA MA QIAN ZI *Strychnos divaricans*, FU SHI MA QIAN ZI *Strychnos froesii*, MI SHI MA QIAN ZI *Strychnos mitschelichii*. Ref: 658.



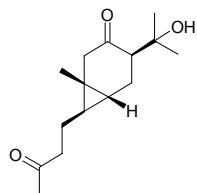
4378 Curcarabranol A

C₁₅H₂₄O₃ (252.36). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (28.8±2.1)%, control L-NMMA, 100μmol/L, InRt = (79.2±0.9)%, *p*<0.01)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.



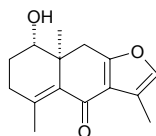
4379 Curcarabranol B

C₁₅H₂₄O₃ (252.36). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (35.1±1.0)%, control L-NMMA, 100μmol/L, InRt = (79.2±0.9)%, *p*<0.01)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.



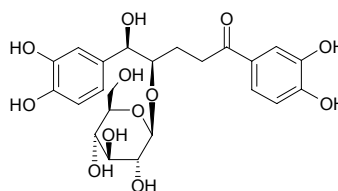
4380 Curcolone

Nehipetol [17015-43-9] C₁₅H₁₈O₃ (246.31). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 6, 4150.



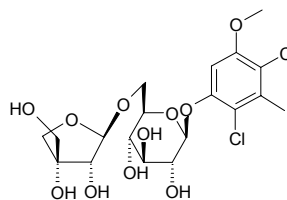
4381 Curculigin

Curculigine C₂₃H₂₈O₁₂ (496.47). Pharm: Contracts blood vessels (*in vitro*, rabbit aorta, facilitating effect on adrenaline evoked contractions, 1~30μmol/L). Source: XIAN MAO *Curculigo orchoides*. Ref: 5095.



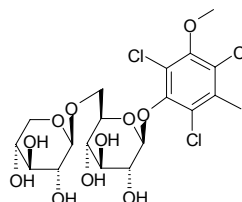
4382 Curculigin B

C₁₉H₂₆Cl₂O₁₁ (501.32). Colorless acicular crystals (CH₃COCH₃), mp 202~205°C, [α]_D¹⁸ = -33.6° (*c* = 0.15, methanol). Source: XIAN MAO *Curculigo orchoides*. Ref: 227.



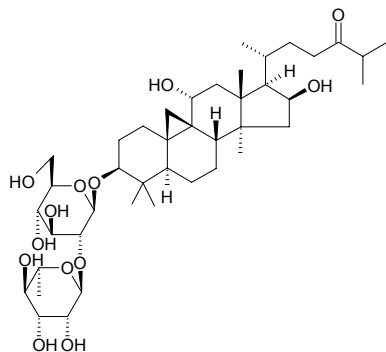
4383 Curculigin C

C₁₉H₂₅Cl₃O₁₁ (535.76). Colorless acicular crystals, mp 178~181°C, [α]_D¹⁸ = -38.94° (*c* = 0.94, methanol). Source: MAO XIAN MAO *Curculigo pilosa* (rhizome). Ref: 227.

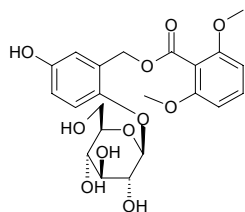


4384 Curculigosaponin G

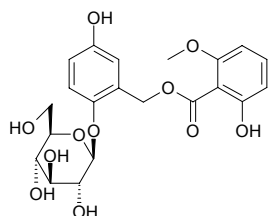
[142998-33-2] $C_{42}H_{70}O_{13}$ (783.01). White powder, mp 154~157°C, $[\alpha]_D = +4.23^\circ$ ($c = 0.10$, methanol). **Pharm:** Improves hyperplasia of spleen lymphocyte (increases the weight of mus thymus gland). **Source:** XIAN MAO *Curculigo orchioides*. **Ref:** 1144.

**4385 Curculigoside**

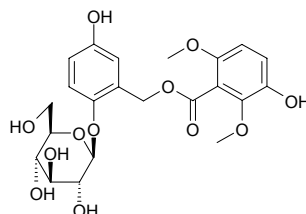
[85643-19-2] $C_{22}H_{26}O_{11}$ (466.44). Colorless rhombic crystals (water), mp 158~159°C, $[\alpha]_D^{25} = -28.7^\circ$ ($c = 1$, methanol). **Pharm:** Promotes macrophage phagocytic function; antioxidant (hydroxyl radical scavenger, $IC_{50} = 0.54\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 1.35\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$)^[4499]. **Source:** MAO XIAN MAO *Curculigo pilosa* (rhizome), XIAN MAO *Curculigo orchioides* (rhizome: mean content of 14 origins = 0.160%^[5508]). **Ref:** 1031, 1146, 4499, 5095, 5508.

**4386 Curculigoside B**

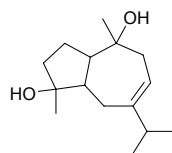
$C_{21}H_{24}O_{11}$ (452.42). Colorless acicular crystals, mp 219~222°C, $[\alpha]_D^{18} = -47.2^\circ$ ($c = 0.18$, methanol). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 1.11\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 1.48\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$). **Source:** XIAN MAO *Curculigo orchioides* (rhizome). **Ref:** 227, 4499.

**4387 Curculigoside C**

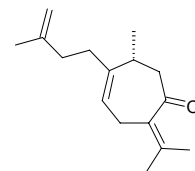
$C_{22}H_{26}O_{12}$ (482.45). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 0.25\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 0.88\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$). **Source:** XIAN MAO *Curculigo orchioides* (rhizome). **Ref:** 4499.

**4388 Curcumadiol**

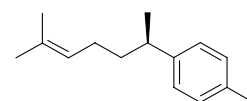
[31946-48-2] $C_{15}H_{26}O_2$ (238.37). mp 145~155°C. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6.

**4389 Curcumadione**

$C_{16}H_{24}O$ (232.37). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 $\mu\text{mol/L}$, InRt = (27.2 \pm 2.2)%), control *L*-NMMA, 100 $\mu\text{mol/L}$, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

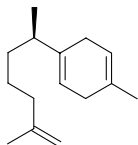
**4390 α -Curcumene**

[4176-17-4] $C_{15}H_{22}$ (202.34). **Source:** DANG SHEN *Codonopsis pilosula*, GAN JIANG *Zingiber officinale*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], NAN HE SHI *Daucus carota*, SHENG JIANG *Zingiber officinale*, XI YANG SHEN *Panax quinquefolium*. **Ref:** 2, 660.

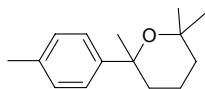


4391 β -Curcumene

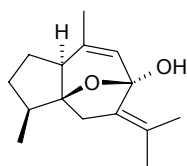
[28976-67-2] C₁₅H₂₄ (204.36). bp (+) 98~100°C/2.2mmHg, (-) 142°C/19mmHg. Source: JIANG HUANG *Curcuma longa*, YU JIN *Curcuma aromatica*. Ref: 6, 660.

**4392 Curcumenether**

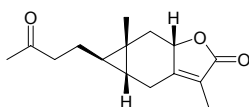
C₁₅H₂₂O (218.34). Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. Ref: 6.

**4393 Curcumenol**

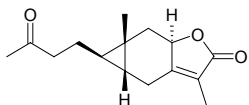
[19431-84-6] C₁₅H₂₂O₂ (234.34). mp 118.5~119.5°C. Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (71.3±2.1)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 6, 4150.

**4394 Curcumenolactone A**

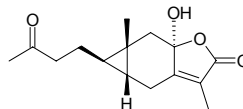
C₁₅H₂₀O₃ (248.32). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (40.2±3.2)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**4395 Curcumenolactone B**

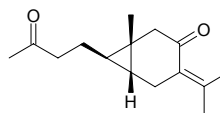
C₁₅H₂₀O₃ (248.32). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (30.6±4.7)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**4396 Curcumenolactone C**

C₁₅H₂₀O₄ (264.32). Pharm: NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (-1.4±4.3)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

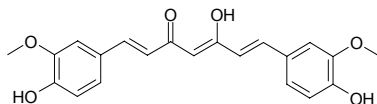
**4397 Curcumenone**

C₁₅H₂₂O₂ (234.34). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (54.8±1.4)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**4398 Curcumin**

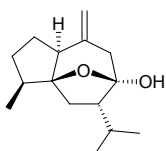
1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione; Turmeric yellow [458-37-7] C₂₁H₂₀O₆ (368.39). Yellow needles, mp 183~184°C; soluble in ethanol, ice vinegar, insoluble in water, ether^[5507]. Pharm: Antibacterial; choleric; pigment; inhibits gastric injury (caused by injecting 20mg/kg enteramine); NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (103.0±0.7)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$, cytotoxic effect was observed with viability = 4%)^[4150]; anti-inflammatory (modulator of cytokine network, a lead compound to develop new clinically relevant anti-inflammatory drugs)^[4416]; anti-inflammatory (preclinical reports suggest that curcumin exerts an anti-inflammatory action in models of atherosclerosis, Alzheimer's disease, arthritis and pancreatitis; proposed mechanisms include macrophage activation inhibitor, lipoxygenase inhibitor, cyclooxygenase 2 inhibitor, and metabolite production via arachidonic acid pathways)^[4415]; anti-inflammatory (NF-κB pathway)^[4415]; anti-inflammatory (rat macrophages and pancreatitis tissue, blocks NO production and NOS activity and expression)^[4415]; antioxidant^[4415]; hepatoprotective^[4415]; antihepatotoxin (injury caused by paracetamol); cytotoxic (Colon26-L5, ED₅₀ = 23.2μmol/L; HT1080, ED₅₀ = 23.4μmol/L)^[3035]; antineoplastic (EBV-EA induced by TPA, IC₅₀ = 343mol ratio/32pmol TPA^[4099], IC₅₀ = 341mol ratio/32pmol TPA^[5028,5048]); β-hexosaminidase release inhibitor (inhibits degranulation and release, RBL-2H3 Cells, 100μmol/L, InRt = 62.6%^[4655], IC₅₀ = 82μmol/L^[4163], $p < 0.01$); 5α-reductase inhibitor (rat prostate 5α-Reductase, IC₅₀ > 1000μmol/L)^[5343]; neuroprotective (*in vitro* protects PC12 cells from β-Amyloid insult: anti-βA(25-35), ED₅₀ = (7.0±1.1)μg/mL;

anti- β A(1-41), $ED_{50} = (10.0 \pm 0.9) \mu\text{g/mL}$; control Congo red: anti- β A(25-35), $ED_{50} = (37.5 \pm 5.4) \mu\text{g/mL}$; anti- β A(1-41), $ED_{50} = (39.2 \pm 5.2) \mu\text{g/mL}$ ^[4653].
Source: BAI CHANG *Acorus calamus*, GUANG XI E SHU *Curcuma kwangsiensis* (dried rhizome: mean content of 3 origins = 0.156%)^[5508], HUANG GEN JIANG HUANG *Curcuma xanthorrhiza*, JIANG HUANG *Curcuma longa* (dried rhizome: content scope = 0.556%~2.03%)^[5501], mean content of 10 origins = 1.87%^[5508], JIANG HUANG *Curcuma longa* (turmeric powder: recovery 0.00115%dw)^[4643], PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], YU JIN *Curcuma aromatica* (dried rhizome: mean content of 3 origins = 0.057%)^[5508]. **Ref:** 6, 658, 3035, 4099, 4150, 4163, 4416, 4415, 4643, 4655, 5028, 5048, 5345, 5501, 5507, 5508.



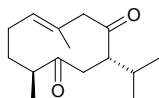
4399 Curcumol

[4871-97-0] $C_{15}H_{24}O_2$ (236.36). mp 141~144°C. **Pharm:** Cytotoxic (H.L. staining method, 1.25mg/mL, effectively damaging cancer cells); antineoplastic (mouse sarcoma S37, 75mg/kg sc, InRt = (53.7~62.0)%; mouse cervical carcinoma U4, 75mg/kg sc, InRt = (45.1~77.1)%; mouse Ehrlich ascites cancer EAC, biotic prolonged rate = (65.8~78.9)%); LD_{50} (mouse, acute toxicity test, ip) = 250mg/kg; LD_{50} (mouse, subacute toxicity test, ip) = 163.4mg/kg. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], WEN YU JIN *Curcuma wengujin* (dried rhizome: content scope = 0.10%~0.16%)^[5501]; content = 0.0408%^[5508]. **Ref:** 4, 5, 6, 660, 5501, 5508.



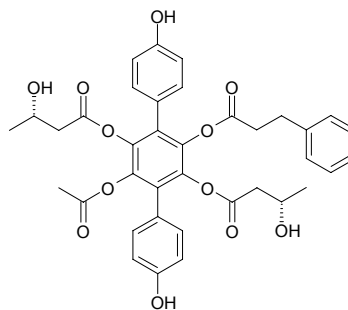
4400 Curdione

[13657-68-6] $C_{15}H_{24}O_2$ (236.36). Colorless prismatic crystals (absolute ethanol), mp 61~62°C, $[\alpha]_D^{25} = +26^\circ$ ($c = 1$, chloroform). **Pharm:** Antineoplastic (mus sarcoma 37, mus cervical carcinoma U14, mus Ehrlich ascites carcinoma, initiative immunity); used in treatment of cervical cancer; NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 $\mu\text{mol/L}$, InRt = (32.0 \pm 1.6)%; control *L*-NMMA, 100 $\mu\text{mol/L}$, InRt = (79.2 \pm 0.9)%; $p < 0.01$)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], YU JIN *Curcuma aromatica*, WEN YU JIN *Curcuma wengujin* (dried rhizome: content scope = 0.35%~0.67%)^[5501]. **Ref:** 4, 5, 6, 661, 4150, 5501.



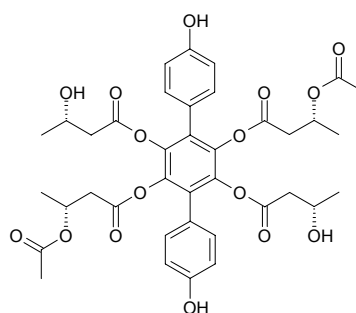
4401 Curtisian E

$C_{37}H_{36}O_{12}$ (672.69). Grayish solid, $[\alpha]_D^{20} = -5.4^\circ$ ($c = 1.1$, CH_3OH). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii*. **Ref:** 3447.



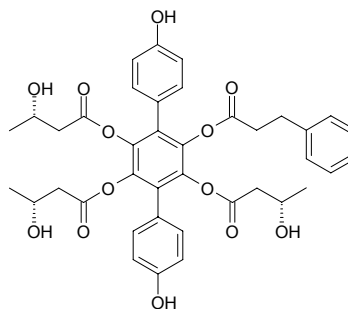
4402 Curtisian F

$C_{38}H_{42}O_{16}$ (754.75). Grayish solid, $[\alpha]_D^{20} = -6.4^\circ$ ($c = 0.8$, CH_3OH). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii*. **Ref:** 3447.



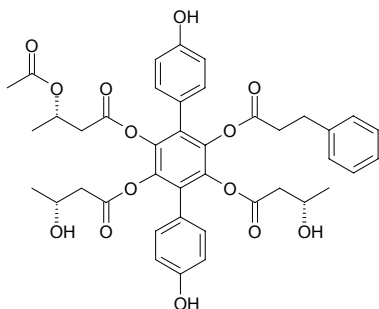
4403 Curtisian G

$C_{39}H_{40}O_{13}$ (716.75). Grayish solid, $[\alpha]_D^{20} = -3.1^\circ$ ($c = 0.5$, CH_3OH). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii*. **Ref:** 3447.

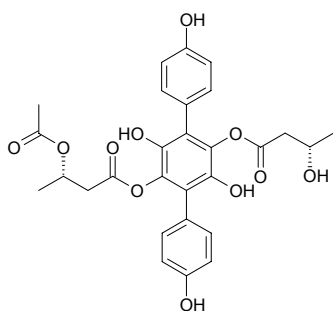


4404 Curtisian H

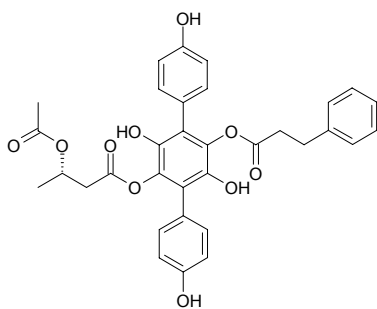
$C_{41}H_{42}O_{14}$ (758.78). Grayish solid, $[\alpha]_D^{20} = -3.9^\circ$ ($c = 1.0$, CH_3OH). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii*. Ref: 3447.

**4405 Curtisian I**

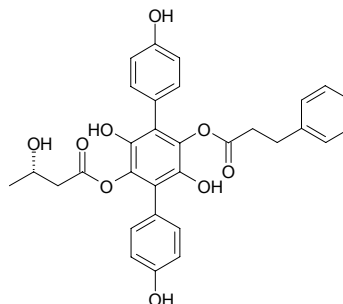
$C_{28}H_{28}O_{11}$ (540.53). Grayish solid, $[\alpha]_D^{20} = -1.8^\circ$ ($c = 1.0$, $MeOH$). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 19.1 \mu mol/L$; control *L*-Ascorbic acid, $IC_{50} = 16.5 \mu mol/L$; Vitamin E, $IC_{50} = 22.8 \mu mol/L$; BHA, $IC_{50} = 31.6 \mu mol/L$). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii*. Ref: 5483.

**4406 Curtisian J**

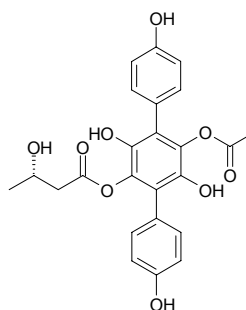
$C_{33}H_{30}O_{10}$ (586.60). Grayish solid, $[\alpha]_D^{20} = -3.54^\circ$ ($c = 0.85$, $MeOH$). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 117.8 \mu mol/L$; control *L*-Ascorbic acid, $IC_{50} = 16.5 \mu mol/L$; Vitamin E, $IC_{50} = 22.8 \mu mol/L$; BHA, $IC_{50} = 31.6 \mu mol/L$). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii*. Ref: 5483.

**4407 Curtisian K**

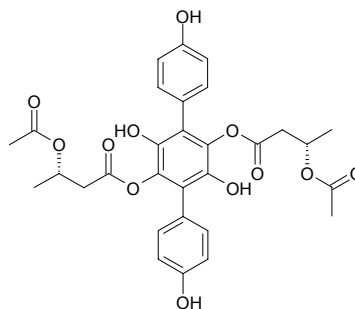
$C_{31}H_{28}O_9$ (544.56). Grayish solid, $[\alpha]_D^{20} = -1.48^\circ$ ($c = 0.95$, $MeOH$). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 31.3 \mu mol/L$; control *L*-Ascorbic acid, $IC_{50} = 16.5 \mu mol/L$; Vitamin E, $IC_{50} = 22.8 \mu mol/L$; BHA, $IC_{50} = 31.6 \mu mol/L$). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii*. Ref: 5483.

**4408 Curtisian L**

$C_{24}H_{22}O_9$ (454.44). Grayish solid, $[\alpha]_D^{20} = +0.86^\circ$ ($c = 1.17$, $MeOH$). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 24.0 \mu mol/L$; control *L*-Ascorbic acid, $IC_{50} = 16.5 \mu mol/L$; Vitamin E, $IC_{50} = 22.8 \mu mol/L$; BHA, $IC_{50} = 31.6 \mu mol/L$). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii*. Ref: 5483.

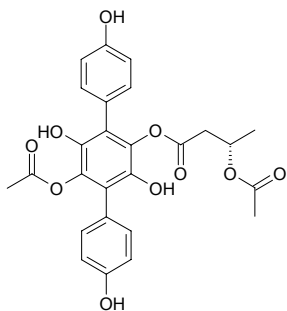
**4409 Curtisian M**

$C_{30}H_{30}O_{12}$ (582.57). Grayish solid, $[\alpha]_D^{20} = -8.7^\circ$ ($c = 0.75$, $MeOH$). Pharm: antioxidant (DPPH scavenger, $IC_{50} = 45.9 \mu mol/L$, control Ascorbic acid, $IC_{50} = 16.5 \mu mol/L$). Source: KE DI SI WANG ZHE JUN *Paxillus curtisii* (sporocarp). Ref: 4379.

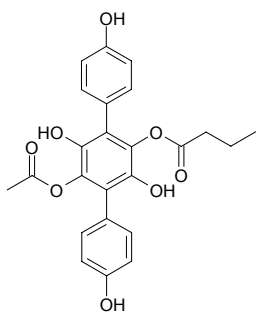


4410 Curtisian N

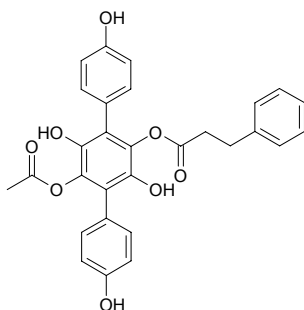
$C_{26}H_{24}O_{10}$ (496.48). Grayish solid, $[\alpha]_D^{20} = -16.2^\circ$ ($c = 0.51$, MeOH). **Pharm:** antioxidant (DPPH scavenger, $IC_{50} = 48.8\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 16.5\mu\text{mol/L}$). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii* (sporocarp). **Ref:** 4379.

**4411 Curtisian O**

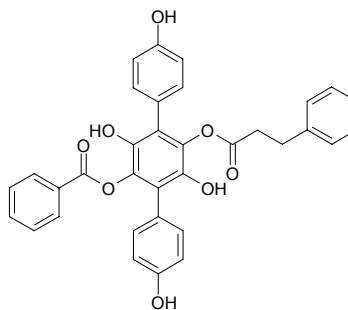
$C_{24}H_{22}O_8$ (438.44). Grayish solid. **Pharm:** antioxidant (DPPH scavenger, $IC_{50} = 58.7\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 16.5\mu\text{mol/L}$). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii* (sporocarp). **Ref:** 4379.

**4412 Curtisian P**

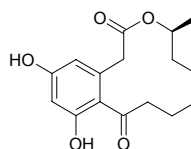
$C_{29}H_{24}O_8$ (500.51). Light red-brown solid. **Pharm:** antioxidant (DPPH scavenger, $IC_{50} = 44.0\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 16.5\mu\text{mol/L}$). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii* (sporocarp). **Ref:** 4379.

**4413 Curtisian Q**

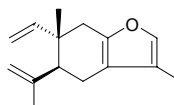
$C_{34}H_{26}O_8$ (562.58). Light red-brown solid. **Pharm:** antioxidant (DPPH scavenger, $IC_{50} = 43.4\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 16.5\mu\text{mol/L}$). **Source:** KE DI SI WANG ZHE JUN *Paxillus curtisii* (sporocarp). **Ref:** 4379.

**4414 Curvularin**

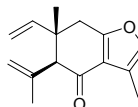
[10140-70-2] $C_{16}H_{20}O_5$ (292.33). White square crystals, mp 206.5~208.0°C. **Pharm:** Cytotoxic. **Source:** CAO YE BAI JIANG *Patrinia scabra*. **Ref:** 2181.

**4415 Curzerene**

Isofuranogermacrene [17910-09-7] $C_{15}H_{20}O$ (216.33). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], SHUI CAI *Menyanthes trifoliata*. **Ref:** 6.

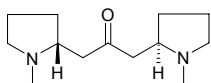
**4416 Curzerenone**

Zedoarone [20493-56-5] $C_{15}H_{18}O_2$ (230.31). bp 104°C/3mmHg, $[\alpha]_D = 0.7^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 $\mu\text{mol/L}$, InRt = (39.7 \pm 2.4)%), control *L*-NMMA, 100 $\mu\text{mol/L}$, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]; cytotoxic inactive (*in vitro*, MCF7)^[3093]. **Source:** MO YAO *Commiphora myrrha* [Syn. *Commiphora molmo*]^[3093], PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], SHUI CAI *Menyanthes trifoliata*. **Ref:** 6, 3093, 4150.

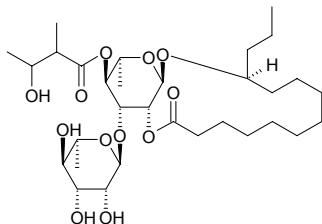


4417 Cuscohygrine

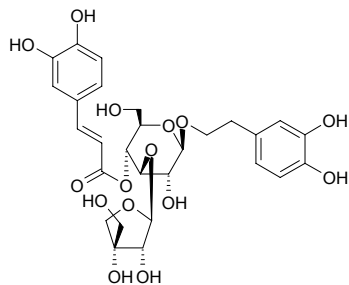
Bellaradine; Cuskygrine [454-14-8] $C_{13}H_{24}N_2O$ (224.35). bp 169–170°C/23mmHg, soluble in ethanol, ether, benzene.^[5507] **Pharm:** Antiallergic (mus, caused by 2,4-dinitrofluorobenzene). **Source:** LANG DANG ZI *Hyoscyamus niger*, MAO MAN TUO LUO YE *Datura innoxia*, OU MAN TUO LUO GEN *Datura stramonium*, PAO NANG CAO *Physochlaina physaloides*, SAI LANG DANG *Anisodus luridus*, SAN FEN SAN *Scopolia acutangula* [Syn. *Anisodus acutangulus*], ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*], DIAN QIE *Atropa belladonna*, GU KE *Erythroxylum coca*, JI XUAN HUA *Convolvulus erinaceus*. **Ref:** 6, 658, 660, 5507.

**4418 Cuscutic resinoid A**

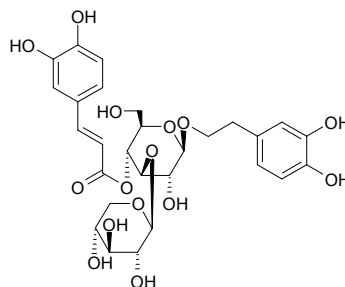
$C_{31}H_{54}O_{12}$ (618.77). Colorless amorphous powder, $[\alpha]_D^{23} = -24.0^\circ$ ($c = 0.7$, MeOH). **Pharm:** Cancer cell stimulator (10 μ mol/L, MCF7 cell and T47D breast cancer cell proliferation). **Source:** TU SI ZI *Cuscuta chinensis* (seed). **Ref:** 4959.

**4419 Cusianoside A**

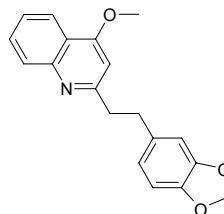
[2-(3,4-Dihydroxyphenylethyl)]-3-*O*- α -D-apiofuranosyl-(1 \rightarrow 4)-(4-*O*-caffeoyl)- β -D-glucopyranoside $C_{28}H_{34}O_{15}$ (610.57). $[\alpha]_D = -67.5^\circ$ (MeOH). **Source:** MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*]. **Ref:** 2577.

**4420 Cusianoside B**

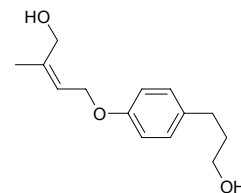
[2-(3,4-Dihydroxyphenylethyl)]-3-*O*- β -D-xylopyranosyl-(1 \rightarrow 3)-(4-*O*-caffeoyl)- β -D-glucopyranoside $C_{28}H_{34}O_{15}$ (610.57). $[\alpha]_D = -41.9^\circ$ (MeOH). **Source:** MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*]. **Ref:** 2577.

**4421 Cusparine**

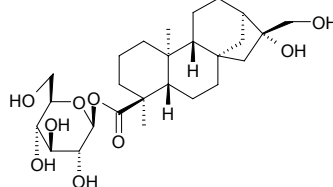
[529-92-0] $C_{19}H_{17}NO_3$ (307.35). **Pharm:** Antidiarrheal; antimalarial; antipyretic; antispasmodic. **Source:** AN GU SI TU LA SHU *Galipea officinalis*. **Ref:** 658.

**4422 Cuspidiol**

$C_{14}H_{20}O_3$ (236.31). **Pharm:** Antifungal (TLC-based assay, *Cladosporium cucumerinum*, MIQ = 0.1 μ g, control Miconazole, MIQ = 1 μ g; *Candida albicans*, MIQ = 10 μ g, Miconazole, MIQ = 0.1 μ g); antibacterial (TLC-based assay, *Bacillus subtilis*, MIQ = 10 μ g; control Chloramphenicol, MIQ = 1 μ g). **Source:** *Fagara xanthoxyloides*. **Ref:** 5385.

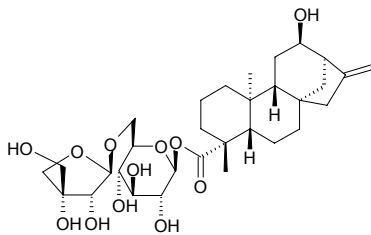
**4423 Cussoracoside A**

$C_{26}H_{42}O_9$ (498.62). $[\alpha]_D^{19} = -37.6^\circ$ ($c = 0.1$, MeOH). **Source:** *Cussonia racemosa* (leaf). **Ref:** 4164.

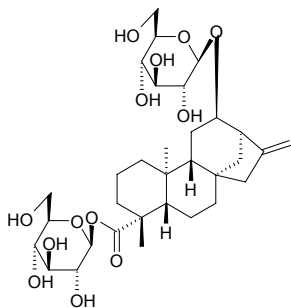


4424 Cussoracoside B

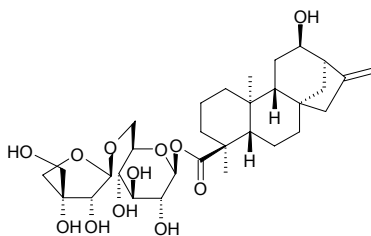
$C_{31}H_{48}O_{12}$ (612.72). $[\alpha]_D^{19} = -27.2^\circ$ ($c = 0.5$, MeOH). Source: *Cussonia racemosa* (leaf). Ref: 4164.

**4425 Cussoracoside C**

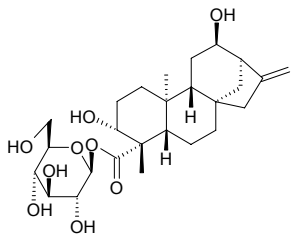
$C_{32}H_{50}O_{13}$ (642.75). Amorphous powder, $[\alpha]_D^{19} = -30.0^\circ$ ($c = 0.5$, MeOH). Source: *Cussonia racemosa* (leaf). Ref: 4164.

**4426 Cussoracoside D**

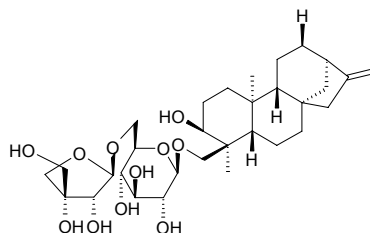
$C_{31}H_{48}O_{12}$ (612.72). $[\alpha]_D^{19} = -19.5^\circ$ ($c = 0.5$, MeOH). Source: *Cussonia racemosa* (leaf). Ref: 4164.

**4427 Cussoracoside E**

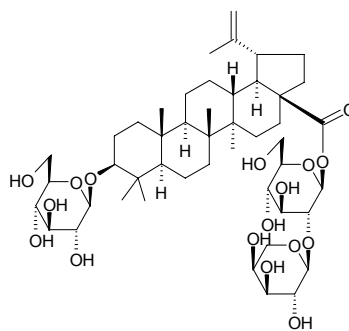
$C_{26}H_{40}O_9$ (496.60). $[\alpha]_D^{19} = -30.5^\circ$ ($c = 1.6$, MeOH). Source: *Cussonia racemosa* (leaf). Ref: 4164.

**4428 Cussoracoside F**

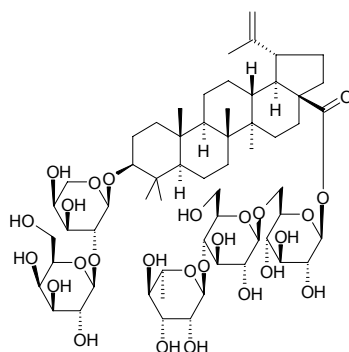
$C_{31}H_{50}O_{11}$ (598.74). $[\alpha]_D^{19} = -35.7^\circ$ ($c = 0.4$, MeOH). Source: *Cussonia racemosa* (leaf). Ref: 4164.

**4429 Cussosaponin A**

3-*O*- β -D-Glucopyranosyl betulinic acid 28-*O*- α -L-arabinopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl ester $C_{47}H_{76}O_{17}$ (913.12). Amorphous powder, $[\alpha]_D^{30} = -14.7^\circ$ ($c = 0.3$, pyridine). Source: *Cussonia racemosa* (leaf). Ref: 4232.

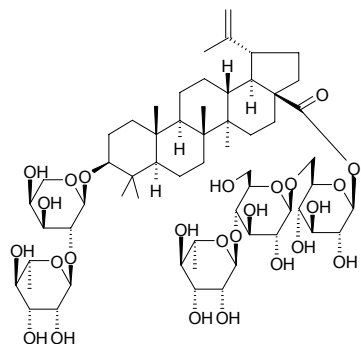
**4430 Cussosaponin B**

3-*O*- α -D-Galactopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl betulinic acid 28-*O*- α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl ester $C_{59}H_{96}O_{26}$ (1221.41). Amorphous powder, $[\alpha]_D^{30} = -34^\circ$ ($c = 0.8$, pyridine). Source: *Cussonia racemosa* (leaf). Ref: 4232.

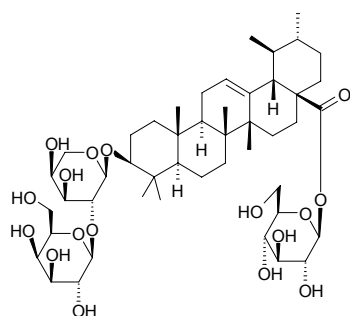


4431 Cusosaponin C

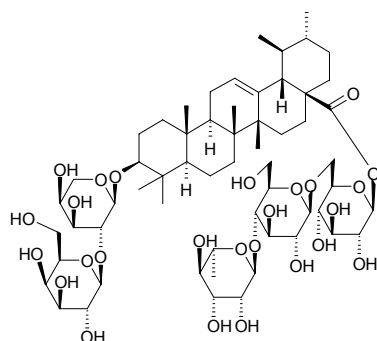
3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)oxy]lup-20-(29)-en-28-oic acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester C₅₉H₉₆O₂₅ (1205.41). Amorphous powder, $[\alpha]_D^{30} = -6.5^\circ$ ($c = 0.4$, pyridine); amorphous solid, $[\alpha]_D^{26} = -34.0^\circ$ ($c = 0.10$, MeOH). **Source:** BAI TOU WENG *Pulsatilla chinensis*, *Cussonia racemosa* (leaf). **Ref:** 3086, 4232.

**4432 Cusosaponin D**

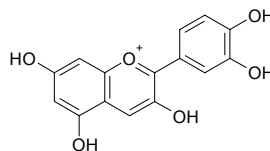
3-*O*- β -D-Galactopyranosyl(1 \rightarrow 2) α -L-arabinopyranosyl ursolic acid 28-*O*- β -D-glucopyranosyl ester C₄₇H₇₆O₁₇ (913.12). Amorphous powder, $[\alpha]_D^{30} = -50^\circ$ ($c = 1.2$, pyridine). **Source:** *Cussonia racemosa* (leaf). **Ref:** 4232.

**4433 Cusosaponin E**

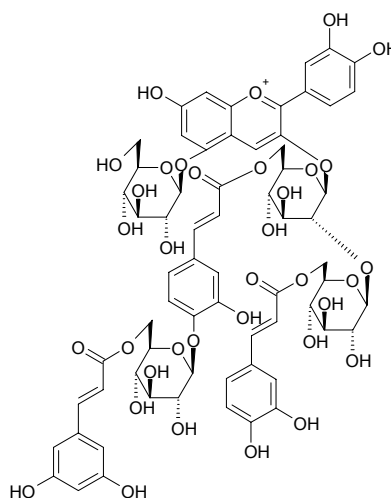
3-*O*- α -D-Galactopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl ursolic acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester C₅₉H₉₆O₂₆ (1221.41). $[\alpha]_D^{30} = -14.8^\circ$ ($c = 1.6$, pyridine). **Source:** *Cussonia racemosa* (leaf). **Ref:** 4232.

**4434 Cyanidin**

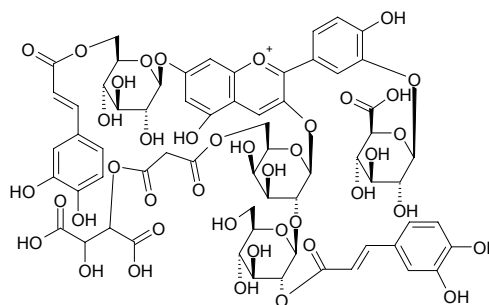
[13306-05-3] C₁₅H₁₁O₆⁺ (287.25). **Pharm:** Red pigment. **Source:** CHOU MO LI *Clerodendron fragrans*. **Ref:** 6, 658.

**4435 Cyanidin-3-*O*-[2-*O*-(6-*O*-*E*-caffeoyl- β -D-glucopyranosyl)]-[6-*O*-[4-*O*-(6-*O*-*E*-3,5-dihydroxycinnamoyl- β -D-glucopyranosyl)-*E*-caffeoyl]- β -D-glucopyranosyl]-5-*O*- β -D-glucopyranoside**

C₆₆H₆₉O₃₅⁺ (1422.26). **Source:** XI XIN YE QIAN NIU *Ipomoea asarifolia* (flower). **Ref:** 3501.

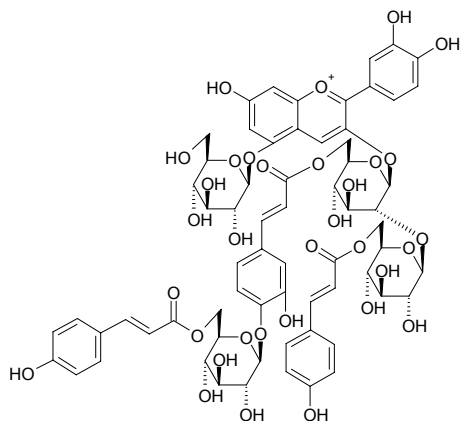
**4436 Cyanidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- β -D-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)- β -D-galactopyranosyl]-7-*O*-[6-*O*-(*trans*-caffeoyl)- β -D-glucopyranoside]-3'-*O*-[β -D-glucuronopyranoside]**

C₆₄H₆₇O₄₁⁺ (1492.22). **Source:** HUA GUAN YIN LIAN HUA *Anemone coronaria*. **Ref:** 1956.



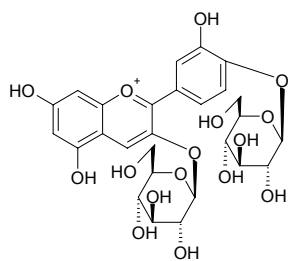
**4437 Cyanidin-3-O-[2-O-(6-O-E-p-coumaroyl-β-D-glucopyranosyl)]-
{6-O-[4-O-(6-O-E-p-coumaroyl-β-D-glucopyranosyl)-E-caffeoyl]-β-D-glucopyranosyl}-5-O-β-D-glucopyranoside**

$C_{66}H_{69}O_{33}^+$ (1390.27). Source: XI XIN YE QIAN NIU *Ipomoea asarifolia* (flower). Ref: 3501.



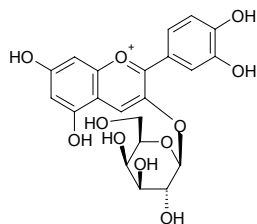
4438 Cyanidin-3,4'-di-O-β-glucopyranoside

$C_{27}H_{31}O_{16}^+$ (611.54). Source: YANG CONG *Allium cepa*. Ref: 3497.



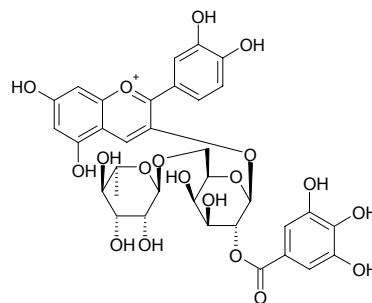
4439 Cyanidin-3-O-β-D-galactoside

Idaein [60562-64-3] $C_{21}H_{21}O_{11}^+$ (449.39). mp 210°C (dec). Pharm: Anti-inflammatory; prevents brittle rupture of blood capillary. Source: HUANG LU ZHI YE *Cotinus coggygria* var. *cinerea*, QIAN QU CAI *Lythrum salicaria*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], A YUE HUN ZI *Pistacia vera*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], OU ZHOU SHUI QING GANG *Fagus sylvatica*, *Vaccinium* sp. Ref: 6, 658, 759.



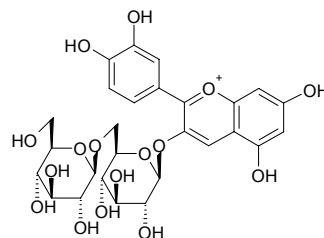
4440 Cyanidin-3-O-(2''-O-galloyl-6''-O-α-rhamnopyranosyl-β-galactopyranoside)

$C_{34}H_{35}O_{19}$ (747.65). Source: CU YING MAO TIE XIAN CAI *Acalypha hispida* (flower). Ref: 3466.



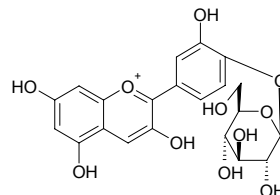
4441 Cyanidin-3-gentiobioside

$C_{27}H_{31}O_{16}^+$ (611.54). Source: YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 6.



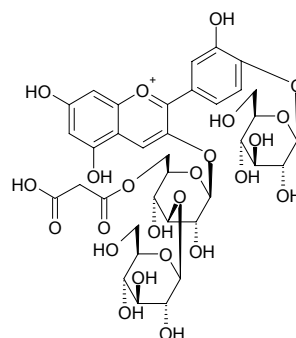
4442 Cyanidin-4'-O-β-D-glucopyranoside

[27459-77-4] $C_{21}H_{21}O_{11}^+$ (449.39). Source: YANG CONG *Allium cepa*, KA FEI HUANG KUI *Hibiscus esculentus*. Ref: 1521, 3497.



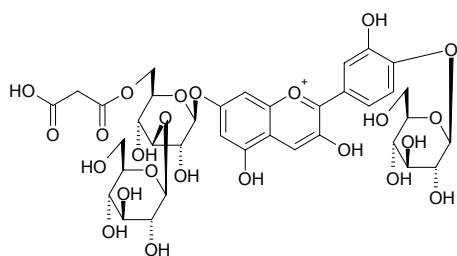
4443 Cyanidin-3-O-(3''-O-β-glucopyranosyl-6''-O-malonyl-β-glucopyranoside)-4'-O-β-glucopyranoside

$C_{36}H_{43}O_{24}^+$ (859.73). Source: YANG CONG *Allium cepa*. Ref: 3497.



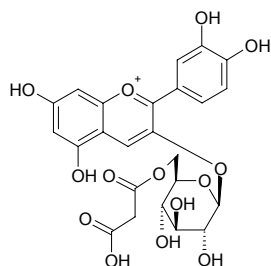
4444 Cyanidin-7-O-(3''-O-β-glucopyranosyl-6''-O-malonyl-β-glucopyranoside)-4'-O-β-glucopyranoside

$C_{36}H_{43}O_{24}^+$ (895.73). Source: YANG CONG *Allium cepa*. Ref: 3497.



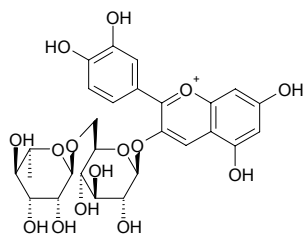
4445 Cyanidin-3-O-(6''-O-malonyl-β-glucopyranoside)

$C_{24}H_{23}O_{14}^+$ (535.44). Source: *Dracula chimaera*, *Dracula cordobae*. Ref: 3406.



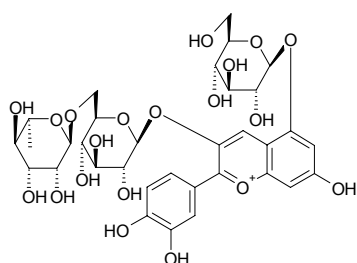
4446 Cyanidin-3-rutinoside

Cyanidin rhamnoglucoside; Keracyanin $C_{27}H_{31}O_{15}^+$ (595.54). Pharm: Red pigment. Source: AN HONG WEI LING CAI *Potentilla atrosanguinea*, JIN YU CAO *Antirrhinum majus*, MO PAN CAO *Abutilon indicum*, SHUI MA TIAO *Polygonum thunbergii*, YANG SHI GUO *Syzygium cumini*, *Dracula chimaera*, *Dracula cordobae*. Ref: 6, 658, 660, 3406.



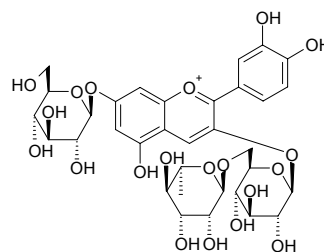
4447 Cyanidin-3-rutinoside-5-glucoside

$C_{33}H_{41}O_{20}^+$ (757.68). Source: MU FU RONG HUA *Hibiscus mutabilis*. Ref: 6.



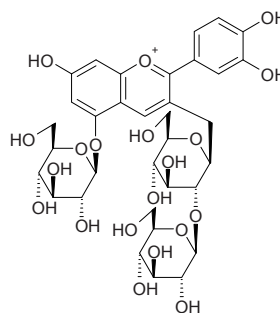
4448 Cyanidin-3-O-β-rutinoside-7-O-β-glucoside

$C_{33}H_{41}O_{20}^+$ (757.68). Source: *Lilium* sp. Ref: 1862.



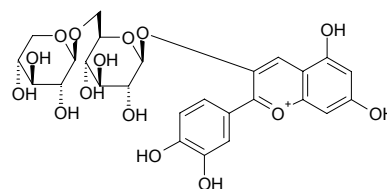
4449 Cyanidin-3-sophoroside-5-glucoside

$C_{34}H_{43}O_{20}^+$ (771.71). Source: FU SANG HUA *Hibiscus rosa-sinensis*. Ref: 6.



4450 Cyanidin-3-xylosyl-glucoside

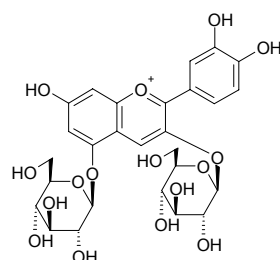
$C_{26}H_{29}O_{15}^+$ (581.51). Source: BU XUE CAO *Limonium gmelinii*, MU TONG *Akebia quinata*. Ref: 6.



4451 Cyanin

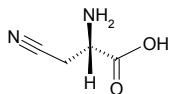
Cyanidin diglucoside [2611-67-8] $C_{27}H_{31}O_{16}^+$ (611.54). mp 205°C (dec).

Pharm: Pigment. Source: BAI FAN DOU *Phaseolus vulgaris*, DI YU *Sanguisorba officinalis*, DU JUAN HUA *Rhododendron simsii*, FENG LI *Ananas comosus*, MAO SHU *Dioscorea alata*, MEI GUI HUA *Rosa rugosa*, MU FU RONG HUA *Hibiscus mutabilis*, SHI CHE JU *Centaurea cyanus*, YU JIN XIANG *Tulipa gesneriana*, *Sambucus* sp. Ref: 6, 658.

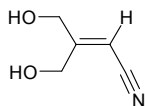


4452 L-β-Cyanoalanine

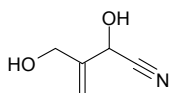
[923-01-3] C₄H₆N₂O₂ (114.10). **Pharm:** Neurotoxin. **Source:** DA CHAO CAI *Vicia sativa*. **Ref:** 658.

**4453 1-Cyano-2-hydroxymethylprop-1-ene-3-ol**

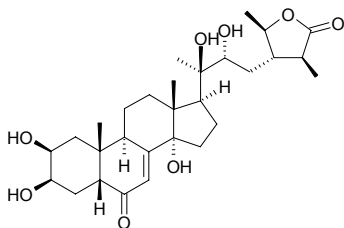
C₅H₇NO₂ (113.12). **Source:** JIA KU GUA *Cardiospermum halicacabum*. **Ref:** 6.

**4454 1-Cyano-2-hydroxymethylprop-2-ene-1-ol**

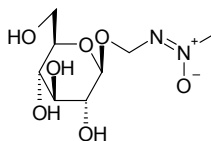
C₅H₇NO₂ (113.12). **Source:** JIA KU GUA *Cardiospermum halicacabum*. **Ref:** 6.

**4455 Cyasterone**

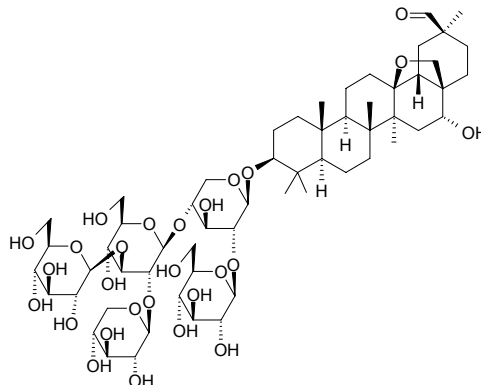
C₂₉H₄₄O₈ (520.67). mp 164~166°C. **Pharm:** Antineoplastic (mus-skin *in vivo*, inhibits EBV-EA induction); insect ecdysone. **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, CHUAN NIU XI *Cyathula officinalis* (root: content scope = 1.5%~7.6%^[5501]; mean content of 22 batch samples = 0.064%^[5508]), HUANG JIN GU CAO *Ajuga chamaepitys*, JIN GU CAO *Ajuga ciliata* (dried whole herb: mean content = 0.044%^[5508]), MA NIU XI *Cyathula capitata*, PU FU JIN GU CAO *Ajuga reptans*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), YAN LING CAO *Trillium tschonoskii*, YU ER QI *Trillium camtschaticum*. **Ref:** 6, 658, 660, 693, 4483, 5501, 5508.

**4456 Cycasin**

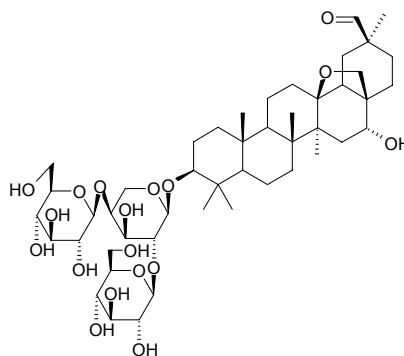
[14901-08-7] C₈H₁₆N₂O₇ (252.23). mp 154°C (dec). **Pharm:** Antineoplastic (mus EAC, sc); carcinogen (causes cancer by *Cycas revoluta* aglycone, orl); LD₅₀ (mus, orl) = 1.67mg/kg, (gpg, orl) = 1000mg/kg. **Source:** QUAN YE SU TIE *Cycas circinalis*, SU TIE SHU GUO *Cycas revoluta*, SU TIE YE *Cycas revoluta*. **Ref:** 5, 6, 658.

**4457 Cyclamin**

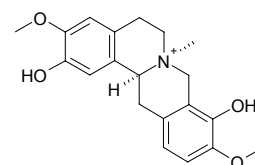
[23643-76-7] C₅₈H₉₄O₂₇ (1223.38). Colorless acicular or clustered crystals, mp 280~281°C, [α]_D²¹ = -10.1° (c = 1.48, water); [α]_D²⁰ = -22.4° (c = 1.52, pyridine). **Pharm:** Antineoplastic; antifungal; hemolytic; toxin. **Source:** XIAN KE LAI *Cyclamen persicum*, OU ZHOU XIAN KE LAI *Cyclamen europaeum*. **Ref:** 658.

**4458 Cyclaminorin**

C₄₇H₇₆O₁₈ (929.12). **Source:** HU SHE HONG *Ardisia mamillata* [Syn. *Tinus mamillata*] (root). **Ref:** 3990.

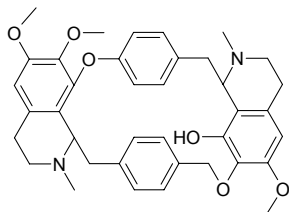
**4459 Cyclanoline**

C₂₀H₂₄NO₄⁺ (342.42). Chloride: mp 214°C, [α]_D = -116° (methanol); hydrated chloride: colorless octahedral crystals, recrystallizing in methanol or ethanol becoming acicular crystals, mp 211~212°C (dec), [α]_D³⁰ = -120° (c = 0.67, methanol); white acicular crystals, mp 214~215°C (dec), [α]_D¹⁷ = -112.4° (c = 0.310, methanol). **Pharm:** Ganglionic blocker; inhibits gastric contraction (animal model); muscle relaxant (striated muscle). **Source:** FANG JI *Stephania tetrandra*, KUO GUO JI YING SU *Argemone platyceras*, NAN LUN HUAN TENG *Cyclea tonkinensis*, QIAN JIN TENG *Stephania japonica*, ZHU SHA LIAN *Aristolochia kaempferi*. **Ref:** 658, 661.

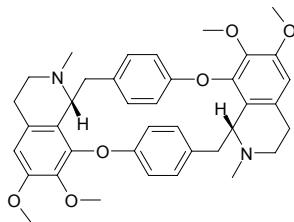


4460 Cycleaneine

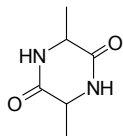
[116520-07-1] C₃₈H₄₂N₂O₆ (622.77). Yellowish crystal powder, mp 96~97°C, [α]_D¹⁶ = +376.8° (*c* = 0.501, chloroform). **Pharm:** Antibacterial (broad spectrum); cytotoxic (hmn, carcinoma of gastric glands Sca7901). **Source:** LUN HUAN TENG *Cyclea racemosa*. **Ref:** 104, 1604.

**4461 Cycleanine**

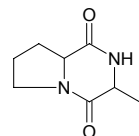
[518-94-5] C₃₈H₄₂N₂O₆ (622.77). mp 268~273°C. **Pharm:** Cytotoxic (HeLa, ED₅₀ = 12μg/mL). **Source:** BAI YAO ZI *Stephania cepharantha*, DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*], GUANG YE DI BU RONG *Stephania glabra*, NAN LUN HUAN TENG *Cyclea tonkinensis*, SI CHUAN LUN HUAN TENG *Cyclea sutchuenensis*, WA SHI DU HUO *Heracleum wallichii*, XI SHENG TENG *Cissampelos pareira*. **Ref:** 5, 6, 274, 658.

**4462 Cyclo-(Ala-Ala)**

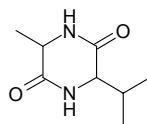
C₆H₁₀N₂O₂ (142.16). Colorless acicular crystals (CH₃OH), mp 206~208°C. **Source:** JIN TIE SUO *Psammosilene tunicoides*. **Ref:** 790, 898, 2106.

**4463 Cyclo-(Ala-Pro)**

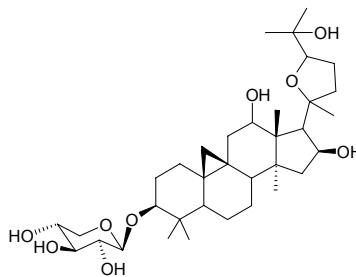
Cyclo-(Pro-Ala) C₈H₁₂N₂O₂ (168.20). Needles (MeOH), mp 170~172°C; White crystals (MeOH), mp 178~181°C. **Source:** JIN TIE SUO *Psammosilene tunicoides*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHANG YE BAN XIA *Pinellia pedatisecta*. **Ref:** 477, 2430, 2487, 4551.

**4464 Cyclo-(Ala-Val)**

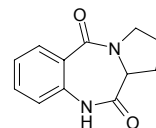
C₈H₁₄N₂O₂ (170.21). Colorless acicular crystals (CH₃OH) mp 177~179°C. **Source:** JIN TIE SUO *Psammosilene tunicoides*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHANG YE BAN XIA *Pinellia pedatisecta*. **Ref:** 660, 790, 898, 2106, 2487.

**4465 Cycloalpioside C**

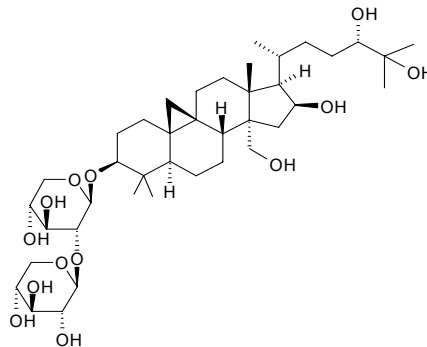
(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3β,12β,16β,25-tetraol-3-*O*-β-*D*-xylopyranoside C₃₅H₅₈O₉ (622.85). **Source:** TIE PO LUO *Beesia calthaefolia* (whole herb). **Ref:** 3099.

**4466 Cycloanthranilyproline**

C₁₂H₁₂N₂O₂ (216.24). Pale yellow powder, [α]_D²⁵ = 505° (*c* = 0.1, MeOH). **Source:** LIANG BAI MEI RONG JUN *Fuligo candida* (sporocarp). **Ref:** 4271.

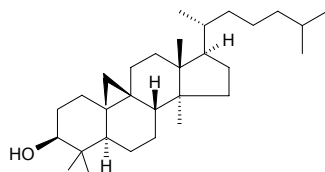
**4467 24*S*-Cycloartane-3β,16β,24,25,30-pentaol-3-*O*-(2-*O*-β-*D*-xylosyl)-β-*D*-xyloside**

C₄₀H₆₈O₁₃ (756.98). White acicular crystals, mp 211~213°C. **Source:** BIAN ZHU TANG SONG CAO *Thalictrum smithii*. **Ref:** 826.

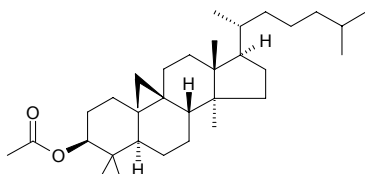


4468 Cycloartanol

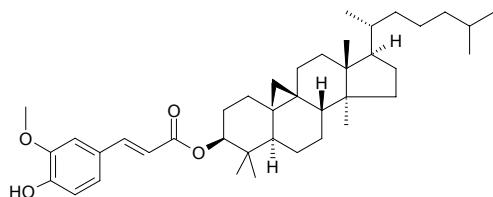
$C_{31}H_{56}O$ (444.79). mp 101~102°C. Source: DOU YOU *Glycine max*, GOU QI ZI *Lycium chinense*, HUO YANG LE *Euphorbia antiquorum*, SHUI LONG GU *Polypodium niponicum*. Ref: 6, 660.

**4469 Cycloartanol acetate**

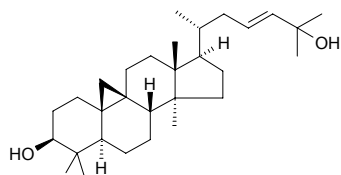
$C_{33}H_{58}O_2$ (486.83). mp 132~133°C. Source: MANG GUO SHU PI *Mangifera indica*. Ref: 6.

**4470 Cycloartanol ferulate**

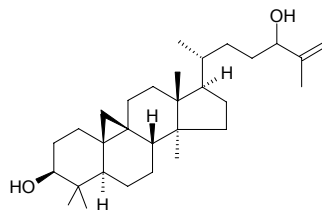
$C_{41}H_{64}O_4$ (620.96). Source: MI PI KANG *Oryza sativa*. Ref: 6.

**4471 9,19-Cycloart-23-ene-3β,25-diol**

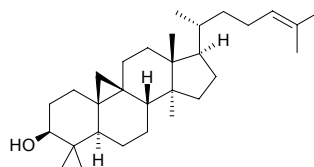
Cycloart-23-ene-3β,25-diol [14599-48-5] $C_{30}H_{50}O_2$ (442.73). Colorless rhombic crystals (chloroform-petroleum ether), mp 198~199°C, $[\alpha]_D^{23} = +41.6^\circ$ ($c = 0.09$, chloroform). Pharm: Cytotoxic (Ehrlich ascites carcinoma). Source: AI YE *Artemisia argyi*. Ref: 900.

**4472 9,19-Cycloart-25-ene-3β,24-diol**

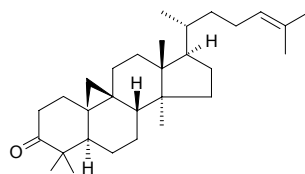
[10388-48-4] $C_{30}H_{50}O_2$ (442.73). Acicular crystals (chloroform-methanol), mp 174~176°C, $[\alpha]_D^{30} = +42^\circ$. Pharm: Antibacterial (*Staphylococcus aureus* and *Escherichia coli*); cytotoxic (Ehrlich ascites carcinoma, $IC_{50} = 7.5 \mu\text{mol/L}$, $IC_{90} = 13.5 \mu\text{mol/L}$, P_{388} , $ED_{50} = 2.4 \mu\text{g/mL}$). Source: HUO YANG LE *Euphorbia antiquorum*. Ref: 900.

**4473 Cycloartenol**

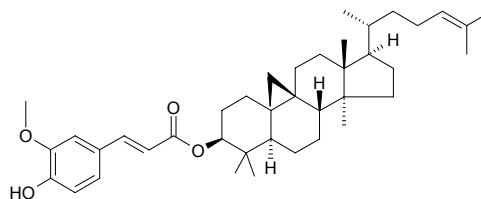
9β,19-Cyclo-24-lanosten-3β-ol [469-38-5] $C_{30}H_{50}O$ (426.73). mp 115°C. Pharm: Precursor to biosynthesis of sterol. Source: DOU YOU *Glycine max*, GAN PI *Citrus chachiensis*, HEI DA DOU *Glycine max*, HUO YANG LE *Euphorbia antiquorum*, KONG SHI CHUN *Ulva pertusa*, SHI CHUN *Ulva lactuca*, XIANG SI ZI *Abrus precatorius*, YA PIAN *Papaver somniferum*, YAN CAO *Nicotiana tabacum*, YING SU *Papaver somniferum*. Ref: 6, 658.

**4474 Cycloartenone**

$C_{31}H_{52}O$ (440.76). mp 109°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

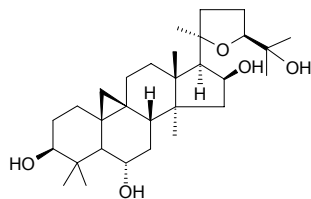
**4475 Cycloartenyl ferulate**

Oryzanol A $C_{41}H_{62}O_4$ (618.95). Source: MI PI KANG *Oryza sativa*. Ref: 6.

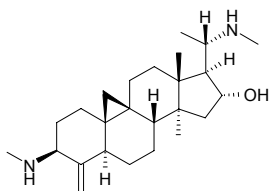


4476 Cycloastragenol

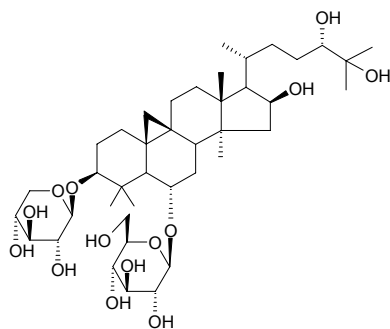
$C_{30}H_{50}O_5$ (490.73). Source: HUANG QI *Astragalus membranaceus*. Ref: 2.

**4477 Cyclobuxine D**

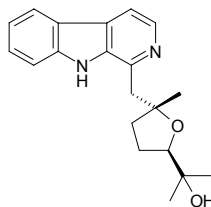
$C_{25}H_{42}N_2O$ (386.63). Pharm: Anti-inflammatory; increases blood pressure; laxative. Source: HE KAN NI YA HUANG YANG *Buxus hyrcana*, JIN SHU HUANG YANG *Buxus sempervirens* (the compound was isolated from the plant by D.Stanfacher, et al. in 1964)^[5505], WA LI XI HUANG YANG *Buxus wallichiana*, XI YE HUANG YANG *Buxus harlandii*, XIAO YE HUANG YANG *Buxus microphylla*. Ref: 658, 5505.

**4478 Cyclocanthoside E**

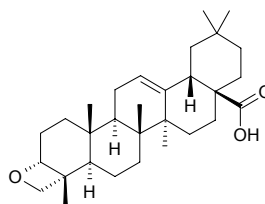
$C_{41}H_{70}O_{14}$ (787.01). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 85.2\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0032\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 30\mu\text{g/mL}$, Benznidazole, $IC_{50} = 0.50\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 14.1\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.087\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 5\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.086\mu\text{g/mL}$); cytotoxic (L6 cells, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$). Source: YOU YE HUANG QI *Astragalus oleifolius* (lower stem part). Ref: 5285.

**4479 Cyclocapitelline**

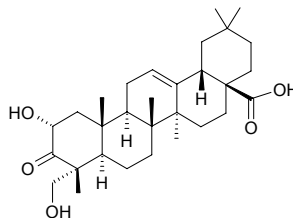
$C_{20}H_{24}N_2O_2$ (324.43). Yellow amorphous solids, $[\alpha]_D = +43^\circ$ ($c = 0.50$, CHCl_3). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata*. Ref: 2424.

**4480 Cyclocaric acid A**

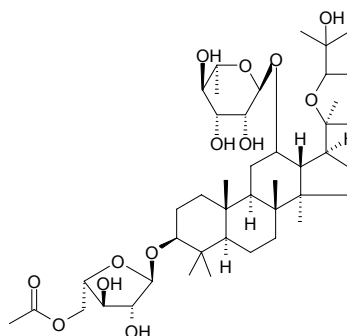
3,23- β -Epoxy-olean-12-en-28-oic acid $C_{30}H_{46}O_3$ (454.70). Pharm: Antihypertensive (alcohol extract of source plant QING QIAN LIU); increases coronary flow (alcohol extract of source plant QING QIAN LIU). Source: QING QIAN LIU *Cyclocarya paliurus*. Ref: 658.

**4481 Cyclocaric acid B**

3-Oxo-2 α ,23-dihydroxyolean-12-en-28-oic acid $C_{30}H_{46}O_5$ (486.70). White granular crystals, mp 258–260°C (MeOH). Source: QING QIAN LIU *Cyclocarya paliurus*. Ref: 493.

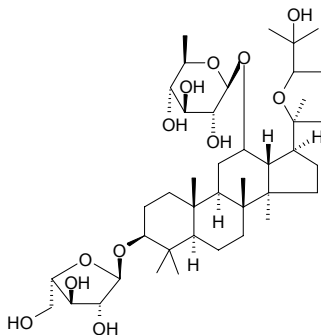
**4482 Cyclocarioside A**

$C_{43}H_{72}O_{13}$ (797.05). White powder, $[\alpha]_D^{20} = -25.1^\circ$ ($c = 0.3$, EtOH). Source: QING QIAN LIU *Cyclocarya paliurus*. Ref: 246.

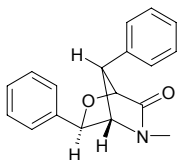


4483 Cyclocarioside I

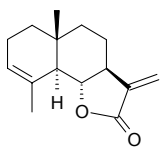
20,24-Epoxy-dammarane-(3 β ,12 β ,20S,24R)-12-O- β -D-quinovopyranosyl-25-hydroxy-3-O- α -L-arabinofuranoside C₄₁H₇₀O₁₂ (755.01). White powdery crystals, mp 143~144°C. **Pharm:** Sweetener. **Source:** QING QIAN LIU *Cyclocarya paliurus*. **Ref:** 338, 658.

**4484 Cycloclausenamide**

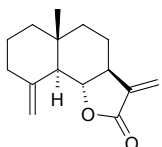
[103541-16-8] C₁₈H₁₇NO₂ (279.34). Colorless clavate crystals (methanol), mp 164~166°C, [α]_D^{24.5} = -40° (c = 0.23, methanol). **Pharm:** Antihepatotoxin, (mus, caused by CCl₄, reduces GPT). **Source:** HUANG PI YE *Clausena lansium*. **Ref:** 1182.

**4485 α -Cyclocostunolide**

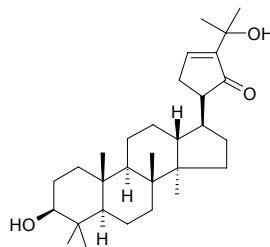
[2221-81-0] C₁₅H₂₀O₂ (232.33). **Pharm:** Schistosomacide (prevents infection of *Schistosoma mansoni*). **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 2, 658.

**4486 β -Cyclocostunolide**

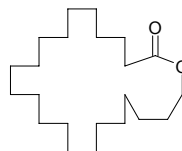
[2221-82-1] C₁₅H₂₀O₂ (232.33). **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 2.

**4487 20(R)-21,24-Cyclo-3 β ,25-dihydroxydammar-23(24)-en-21-one**

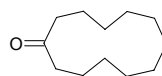
C₃₀H₄₈O₃ (456.72). **Source:** JIAO GU LAN *Gynostemma pentaphyllum*. **Ref:** 2.

**4488 Cyclodocosalactone**

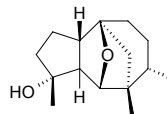
C₂₂H₄₂O₂ (338.58). White powder. **Source:** JIANG HUANG *Curcuma longa*. **Ref:** 2497.

**4489 Cyclododecanone**

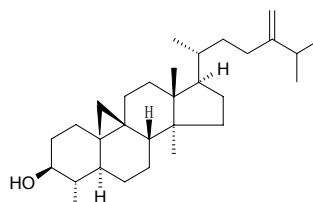
[830-13-7] C₁₂H₂₂O (182.31). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

**4490 7,12-Cyclo-6,11-epoxy-4-dumortanol**

[240417-21-4] C₁₅H₂₄O₂ (236.36). Oil. **Source:** MAO DI QIAN *Dumortiera hirsuta*. **Ref:** 2283.

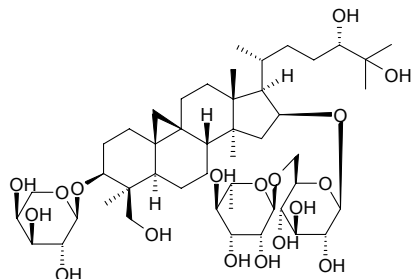
**4491 Cycloeucaleanol**

[469-39-6] C₃₁H₅₄O (442.78). mp 138~139°C. **Source:** BA WANG BIAN *Euphorbia royleana*, GOU QI ZI *Lycium chinense*, MAN TUO LUO ZI *Datura metel*. **Ref:** 6, 660.

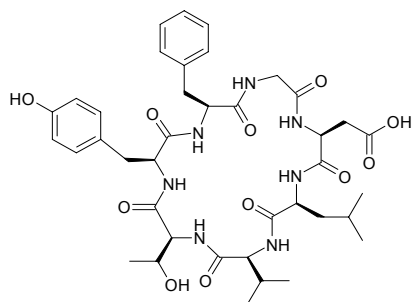


4492 Cyclofoetoside B

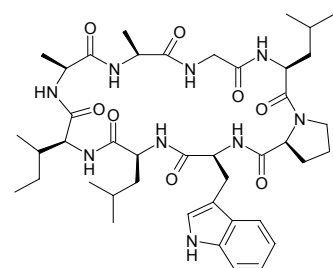
$C_{47}H_{80}O_{18}$ (933.15). Pharm: Antineoplastic (rat, ip, 50mg/kg). Source: XIANG TANG SONG CAO *Thalictrum foetidum*. Ref: 658.

**4493 Cyclo-(Gly-Asp-Leu-Thr-Val-Tyr-Phe)**

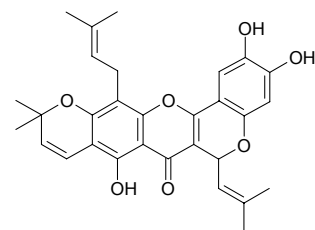
$C_{39}H_{53}N_7O_{11}$ (795.90). Colorless powder, $[\alpha]_D^{24} = -22.3^\circ$ ($c = 0.25$, MeOH). Source: FO SHOU *Citrus medica* var. *sarcodactylis* (fruit peel). Ref: 4208.

**4494 Cyclo-(Gly-Leu-Pro-Trp-Leu-Ile-Ala-Ala)**

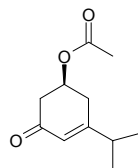
$C_{42}H_{63}N_9O_8$ (822.03). Colorless powder, $[\alpha]_D^{24} = -81.1^\circ$ ($c = 0.15$, MeOH). Source: FO SHOU *Citrus medica* var. *sarcodactylis* (fruit peel). Ref: 4208.

**4495 Cycloheterophyllin**

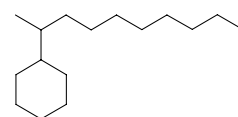
[36545-53-6] $C_{30}H_{30}O_7$ (502.57). Source: BO LUO MI *Artocarpus heterophyllus*. Ref: 6.

**4496 3-Isopropyl-5-acetoxycyclohexene-2-one-1**

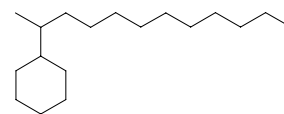
$C_{11}H_{16}O_3$ (196.25). White crystals, mp 135–137°C, $[\alpha]_D^{20} = -55.6^\circ$ ($c = 0.009$, $CHCl_3$). Source: DAO CAO *Oryza sativa*. Ref: 3801.

**4497 2-Cyclohexyldecane**

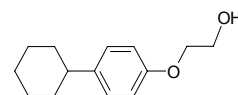
$C_{16}H_{32}$ (224.43). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**4498 3-Cyclohexyldodecane**

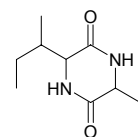
$C_{18}H_{36}$ (252.49). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**4499 2-(p-Cyclohexyl-phenoxy)ethanol**

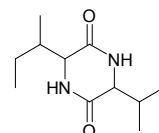
$C_{14}H_{20}O_2$ (220.31). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**4500 Cyclo-(Ile-Ala)**

$C_9H_{16}N_2O_2$ (184.24). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

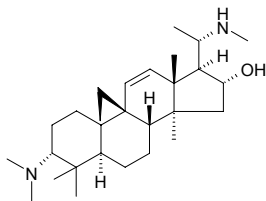
**4501 Cyclo-(Ile-Val)**

$C_{11}H_{20}N_2O_2$ (212.29). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487, 4551.

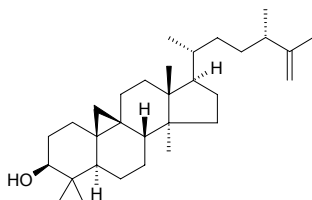


4502 Cyclokoreanine B

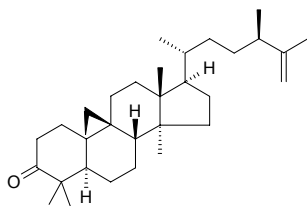
[10413-97-5] $C_{28}H_{50}N_2O$ (430.72). mp 235–236°C. Source: HUANG YANG MU YE *Buxus microphylla* var. *sinica*. Ref: 6.

**4503 Cyclolaudenol**

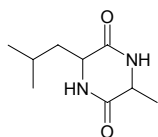
[511-61-5] $C_{31}H_{52}O$ (440.76). mp 125°C. Source: SHUI LONG GU *Polypodium niponicum*, YA PIAN *Papaver somniferum*. Ref: 6.

**4504 Cyclolaudenone**

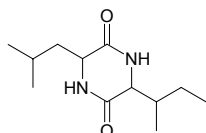
[2315-13-1] $C_{32}H_{54}O$ (454.79). Source: YA PIAN *Papaver somniferum*. Ref: 6.

**4505 Cyclo-(Leu-Ala)**

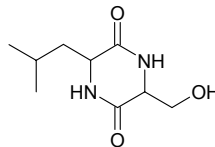
$C_9H_{16}N_2O_2$ (184.24). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

**4506 Cyclo-(Leu-Ile)**

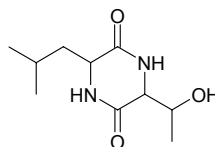
$C_{12}H_{22}N_2O_2$ (226.32). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

**4507 Cyclo-(Leu-Ser)**

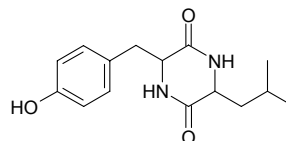
$C_9H_{16}N_2O_3$ (200.24). Needles (MeOH), mp 240–242°C. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487, 4551.

**4508 Cyclo-(Leu-Thr)**

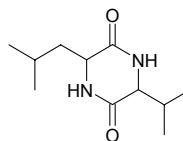
$C_{10}H_{18}N_2O_3$ (214.27). Needles (MeOH), mp 280–282°C. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487, 4551.

**4509 Cyclo-(Leu-Tyr)**

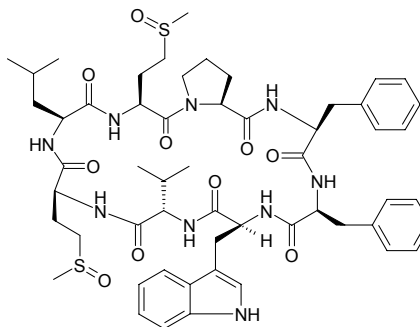
$C_{15}H_{20}N_2O_3$ (276.34). Needles (MeOH), mp 260–222°C. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487, 4551.

**4510 Cyclo-(Leu-Val)**

$C_{11}H_{20}N_2O_2$ (212.29). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 660, 2487.

**4511 Cyclolinopeptide F**

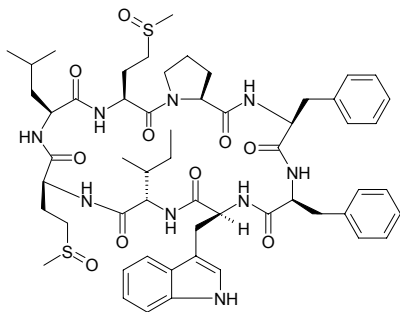
$C_{55}H_{73}N_9O_{10}S_2$ (1084.38). Colorless powder, $[\alpha]_D = -71.4^\circ$ ($c = 0.21$, MeOH). Source: YA MA ZI *Linum usitatissimum*. Ref: 754.



4512 Cyclolinopeptide G

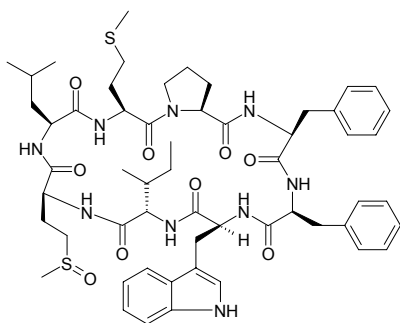
$C_{56}H_{75}N_9O_{10}S_2$ (1098.4). Colorless powder, $[\alpha]_D = -66.6^\circ$ ($c = 0.2$, MeOH).

Source: YA MA ZI *Linum usitatissimum*. Ref: 754.

**4513 Cyclolinopeptide H**

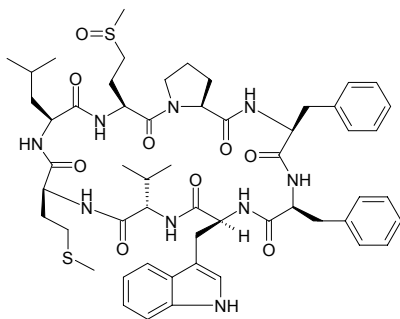
$C_{56}H_{75}N_9O_9S_2$ (1082.41). Colorless powder, $[\alpha]_D = -87.7^\circ$ ($c = 0.15$, MeOH).

Source: YA MA ZI *Linum usitatissimum*. Ref: 754.

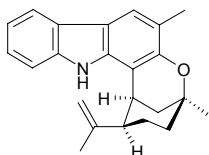
**4514 Cyclolinopeptide I**

$C_{55}H_{73}N_9O_9S_2$ (1068.38). Colorless powder, $[\alpha]_D = -60.6^\circ$ ($c = 0.2$, MeOH).

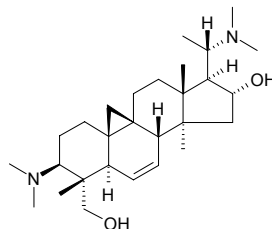
Source: YA MA ZI *Linum usitatissimum*. Ref: 754.

**4515 Cyclomahanimbine**

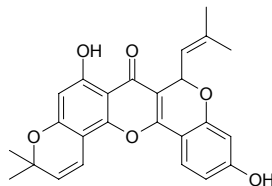
[25488-33-9] $C_{23}H_{25}NO$ (331.46). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**4516 Cyclomicrophylline A**

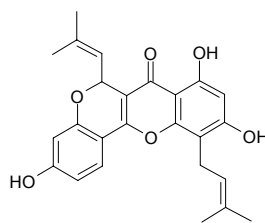
$C_{28}H_{48}N_2O_2$ (444.71). Pharm: AChE inhibitor ($IC_{50} = (235 \pm 3) \mu\text{mol/L}$, control Physostigmine, $IC_{50} = (0.041 \pm 0.001) \mu\text{mol/L}$); BChE inhibitor ($IC_{50} = (2.43 \pm 0.05) \mu\text{mol/L}$, control Physostigmine, $IC_{50} = (0.875 \pm 0.008) \mu\text{mol/L}$). Source: DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). Ref: 5216.

**4517 Cyclomorusin**

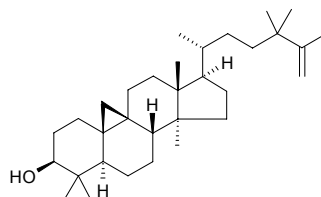
Cyclomulberochromene [62596-34-3] $C_{25}H_{22}O_6$ (418.45). Pale yellow prisms (MeOH), mp 256–257°C, mp 233–234°C, $[\alpha]_D^{20} = +20^\circ$ ($c = 0.15$, MeOH). Source: FEI HOU MIAN BAO GUO *Artocarpus altilis*, MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (root cortex: yield = 0.52%), SANG BAI PI *Morus alba*, SANG ZHI *Morus alba*. Ref: 6, 1521, 2513, 4682.

**4518 Cyclomulberrin**

[19275-51-5] $C_{25}H_{24}O_6$ (420.47). mp 231–232°C. Source: SANG BAI PI *Morus alba*, SANG ZHI *Morus alba*. Ref: 6.

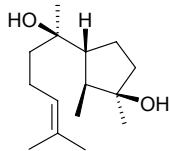
**4519 Cycloneolitsol**

[28840-92-8] $C_{32}H_{54}O$ (454.79). White needles (petroleum ether-EtOAc), mp 176–178°C. Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (whole herb). Ref: 4814.



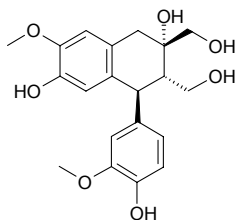
4520 Cyclonerodiol

[28834-06-2] C₁₅H₂₈O₂ (240.39). Source: *Myrothecium* sp. Ref: 4457.

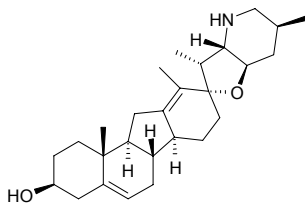
**4521 (+)-Cycloolivil**

[3064-05-9] C₂₀H₂₄O₇ (376.41). Source: DU ZHONG *Eucommia ulmoides*.

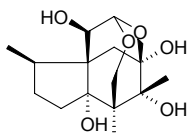
Ref: 2.

**4522 Cyclopamine**

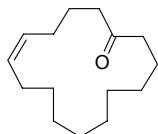
11-Deoxojervine [4449-51-8] C₂₇H₄₁NO₂ (411.63). mp 237~238°C. Pharm: Teratogen. Source: BAI LI LU *Veratrum album*, JIA ZHOU LI LU *Veratrum californicum*, LI LU *Veratrum nigrum*. Ref: 6, 658, 1521.

**4523 Cycloparvifloralone**

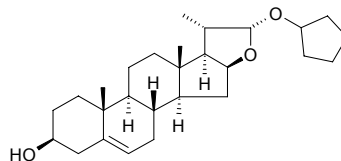
C₁₅H₂₄O₆ (300.35). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1-10 μmol/L)^[3046]. Source: *Illicium merrillianum* (pericarp: yield = 0.010%dw). Ref: 3046.

**4524 5-cis-Cyclopentadecen-1-one**

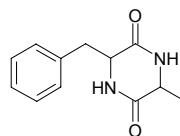
C₁₅H₂₆O (222.37). Source: SHE XIANG *Moschus moschiferus*, *Moschus berezovskii*, *Moschus sifanicus*. Ref: 2.

**4525 22-Cyclopentyl-22-deisopenty-3β-hydroxyl-furostanol**

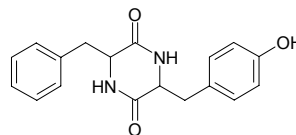
C₂₇H₄₂O₃ (414.63). Colorless mass crystals, mp 262~264°C. Source: WU HUA GUO *Ficus carica*. Ref: 814.

**4526 Cyclo-(Phe-Ala)**

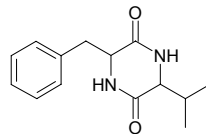
C₁₂H₁₄N₂O₂ (218.26). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 2487, 3195, 4551.

**4527 Cyclo-(Phe-Tyr)**

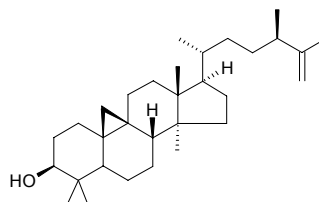
C₁₈H₁₈N₂O₃ (310.36). Needles (MeOH), mp 291~293°C. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487, 4551.

**4528 Cyclo-(Phe-Val)**

C₁₄H₁₈N₂O₂ (246.31). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

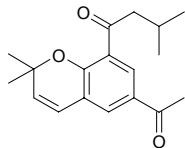
**4529 Cyclopholidonol**

C₃₁H₅₂O (440.76). White needles (petroleum ether-EtOAc), mp 169~171°C. Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (whole herb). Ref: 4814.

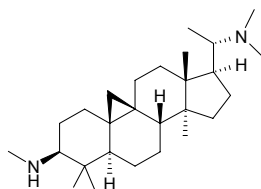


4530 Cyclophiloselloidone

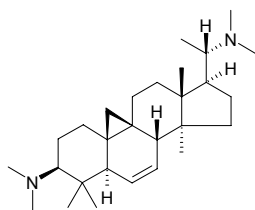
$C_{18}H_{22}O_3$ (286.37). Source: MAO DA DING CAO *Gerbera piloselloides*. Ref: 6.

**4531 Cycloprotobuxine C**

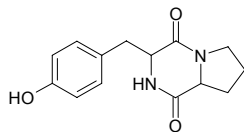
[1936-70-5] $C_{27}H_{48}N_2$ (400.70). Pharm: Laxative. Source: JIN SHU HUANG YANG *Buxus sempervirens*, MA LAI XI YA HUANG YANG *Buxus malaiana*, XI BAN YA HUANG YANG *Buxus balearica*. Ref: 658.

**4532 Cycloprotobuxine C₁**

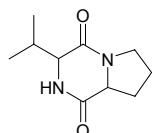
$C_{28}H_{48}N_2$ (412.71). Pharm: AChE inhibitor ($IC_{50} = (38.8 \pm 2.2) \mu\text{mol/L}$, control Physostigmine, $IC_{50} = (0.041 \pm 0.001) \mu\text{mol/L}$)^[5216]; BChE inhibitor ($IC_{50} = (2.73 \pm 0.07) \mu\text{mol/L}$, control Physostigmine, $IC_{50} = (0.875 \pm 0.008) \mu\text{mol/L}$)^[5216]. Source: DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). Ref: 5216.

**4533 Cyclo-(Pro-Tyr-)**

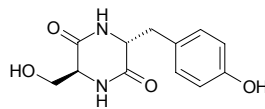
$C_{14}H_{16}N_2O_3$ (260.30). White powder. Source: DUO XIONG RUI SHANG LU *Phytolacca polyandra*. Ref: 2255.

**4534 Cyclo-(Pro-Val)**

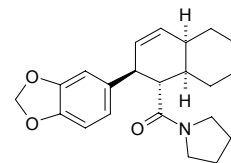
Cyclo-(Val-Pro) $C_{10}H_{16}N_2O_2$ (196.25). White crystals (MeOH), mp 186~188°C; needles (MeOH), mp 145~147°C. Source: JIN TIE SUO *Psammosilene tunicoides*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2430, 2487, 4551.

**4535 Cyclo-(D-seryl-L-tyrosyl)**

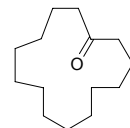
$C_{12}H_{14}N_2O_4$ (250.26). White acicular crystals, mp 256~259°C, $[\alpha]_D^{19} = +18.4^\circ$ ($c = 1.09$). Source: CHUAN SHAN JIA *Manis pentadactyla*. Ref: 110.

**4536 Cyclostachine A**

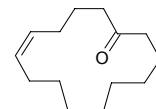
$C_{22}H_{27}NO_3$ (355.47). Pharm: Antibacterial; anticonvulsant; antifungal; sedative. Source: MAO SUI HU JIAO *Piper trichostachyon*. Ref: 661.

**4537 Cyclotetradecan-1-one**

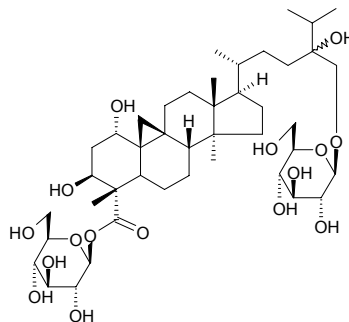
[3603-99-4] $C_{14}H_{26}O$ (210.36). Source: SHE XIANG *Moschus moschiferus*, *Moschus berezovskii*, *Moschus sifanicus*. Ref: 2.

**4538 5-cis-Cyclotetradecen-1-one**

$C_{14}H_{24}O$ (208.35). Source: SHE XIANG *Moschus moschiferus*, *Moschus berezovskii*, *Moschus sifanicus*. Ref: 2.

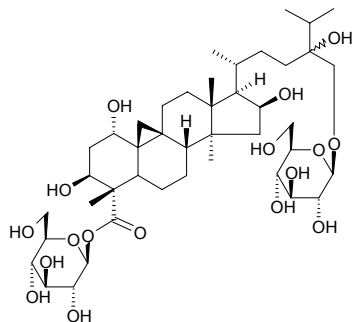
**4539 Cyclotricuspidoside A**

28,31-Di-O-β-D-glucopyranosides of 1α,3β,24ζ,31-tetrahydroxy-24ζ-methyl-cycloartan-28-oic acid [239794-21-9] $C_{43}H_{72}O_{16}$ (845.04). $[\alpha]_D^{23} = +24.5^\circ$ ($c = 1.0$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 2316.

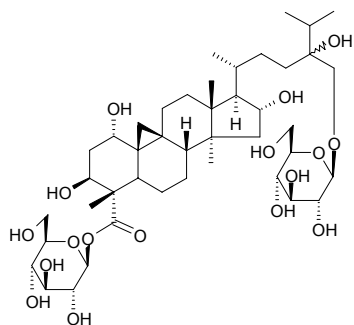


4540 Cyclotricuspidoide B

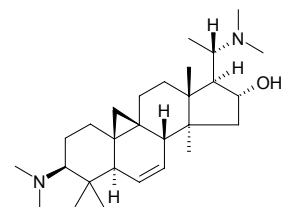
1 α ,3 β ,16 β ,24 ζ ,31-Pentahydroxy-24 ζ -methylcycloartan-28-oic acid
 [239794-22-0] C₄₃H₇₂O₁₇ (861.04). [α]_D²³ = +35.9° (c = 1.0, MeOH). Source:
 SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 2316.

**4541 Cyclotricuspidoide C**

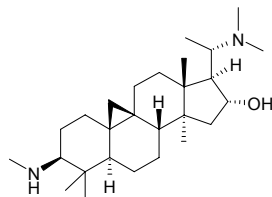
1 α ,3 β ,16 α ,24 ζ ,31-Pentahydroxy-24 ζ -methylcycloartan-28-oic C₄₃H₇₂O₁₇
 (861.04). [α]_D²³ = +12.1° (c = 1.0, MeOH). Source: SAN YING JIAN GUA
 LOU *Trichosanthes tricuspidata*. Ref: 2316.

**4542 Cyclovirobuxine A**

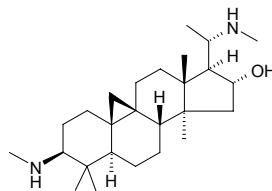
C₂₈H₄₈N₂O (428.71). Pharm: AChE inhibitor (IC₅₀ = (105.7±5.6)μmol/L, control Physostigmine, IC₅₀ = (0.041±0.001)μmol/L)^[5216]; BChE inhibitor (IC₅₀ = (2.05±0.05)μmol/L, control Physostigmine, IC₅₀ = (0.875±0.008)μmol/L). Source: DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). Ref: 5216.

**4543 Cyclovirobuxine**

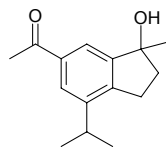
C₂₇H₄₈N₂O (416.70). Pharm: Antiarrhythmic; increases coronary flow; laxative; used in treatment of rheumatic heart disease and coronary heart disease; vasodilator (peripheral). Source: JIN SHU HUANG YANG *Buxus sempervirens*, MA LAI XI YA HUANG YANG *Buxus malaiana*, WA LI XI HUANG YANG *Buxus wallichiana*, XIAO YE HUANG YANG *Buxus microphylla*, YIN BAI HUANG YANG *Buxus argentea*. Ref: 658.

**4544 Cyclovirobuxine D**

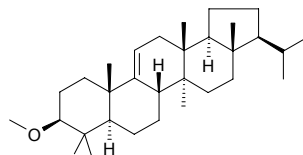
[860-29-7] C₂₆H₄₆N₂O (402.67). mp 221~224°C. Pharm: Antiarrhythmic; cardiotonic; increases coronary flow; against acute ischemia myocardial; vasodilator (peripheral). Source: HUANG YANG MU YE *Buxus microphylla* var. *sinica*. Ref: 6, 658.

**4545 Cyllindrene**

C₁₅H₂₀O₂ (232.33). Pharm: Vasoconstriction inhibitor (rbt, *in vitro*, strip of artery sample, contraction caused by noradrenaline, 0.3mmol/L, InRt = 40%) Source: BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*. Ref: 5501.

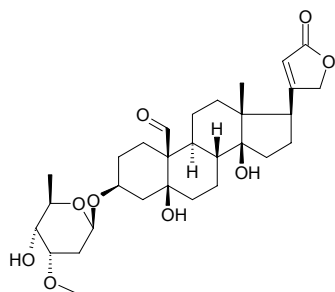
**4546 Cyllindrin**

[17904-55-1] C₃₁H₅₂O (440.76). mp 269~270°C. Source: BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*, DAN ZHU YE *Lophatherum gracile*, MAO CAO YE *Imperata cylindrica* var. *major*, DAN ZHU YE GEN *Lophatherum gracile*. Ref: 6.

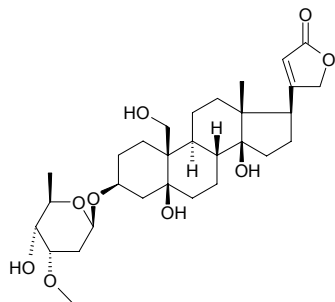


4547 Cymarín

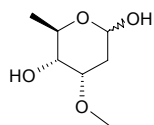
[508-77-0] C₃₀H₄₄O₉ (548.68). mp 148°C, 185–187°C. **Pharm:** Antineoplastic; antimitotic; cardiotoxic (dog, cures experimental cardiovascular insufficiency); cytotoxic (KB, ED₅₀ < 0.1 µg/mL); diuretic (rat); increases blood pressure; prevents hardening of cardiac muscle and vasa coronaria (rbt); promotes resynthesis of heart glycogen; reduces symptom of acute dysemia in myocarditis (rbt); LD₅₀ (cat, iv) = 0.095 mg/kg. **Source:** CHUN FU SHOU CAO *Adonis vernalis*, FU SHOU CAO *Adonis amurensis*, HEI GANG LIU *Periploca nigrescens*, HUANG WAN *Senecio nemorensis*, JIN HUANG CE JIN ZHAN HUA *Adonis chrysocyatha*, KANG PI DU MAO XUAN HUA *Strophanthus kombe*, LUO BU MA *Apocynum venetum*. **Ref:** 4, 5, 6, 658, 2498.

**4548 Cymarol**

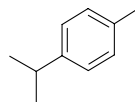
[465-84-9] C₃₀H₄₆O₉ (550.70). mp 240–243°C. **Source:** FU SHOU CAO *Adonis amurensis*. **Ref:** 6.

**4549 Cymarose**

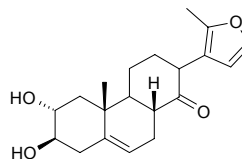
[579-04-4] C₇H₁₄O₄ (162.19). **Source:** DIAN DI MEI YE CHA YE HUA *Apocynum androsaemifolium*, JIA ZHU TAO MA *Apocynum cannabinum*, KANG PI DU MAO XUAN HUA *Strophanthus kombe*, LUO BU MA *Apocynum venetum*, XI LA GANG LIU *Periploca graeca*. **Ref:** 658.

**4550 p-Cymene**

4-Isopropyltoluene [99-87-6] C₁₀H₁₄ (134.22). **Pharm:** Antifungal; antitussive (dispels phlegm); insecticidal; analgesic (local, pain due to rheumatism); antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78 mg/mL; *Aspergillus flavus* KCCM11453, MFC = 1.56 mg/mL; *Candida albicans* KCCM11282, MFC > 6.25 mg/mL; *Candida utilis* KCCM11356, MFC > 6.25 mg/mL; *Cryptococcus neoformans* KCCM0564, MFC = 6.25 mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 1.56 mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.39 mg/mL; *Blastoschyzomyces capitatus* KCCM50270, MFC = 3.12 mg/mL)^[4079]; LD₅₀ (rat, orl) = 4.75 g/kg. **Source:** BEI HAI DANG GUI *Angelica acutiloba* var. *sugiyamae*, DA YE XIANG RU *Mosla dianthera*, DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], DONG LING CAO *Rabdosia rubescens*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DU SONG SHI *Juniperus rigida*, GAN JIANG *Zingiber officinale*, GANG SONG *Baeckea frutescens*, HOU PO *Magnolia officinalis*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUO XIANG *Agastache rugosus*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JU PI *Citrus reticulata*, KONG SHI CHUN *Ulva pertusa*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PEI LAN *Eupatorium fortunei* (volatile oil: content = 3.33%), SHENG JIANG *Zingiber officinale*, TU JING JIE *Chenopodium ambrosioides*, WU SE MEI *Lantana camara*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, XING REN *Prunus armeniaca*, YANG SHI CAO *Achillea millefolium*, YIN CHEN HAO *Artemisia capillaris*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*, occurs in many plants (very widely distributed in plant oils). **Ref:** 2, 658, 660, 4079, 5501.

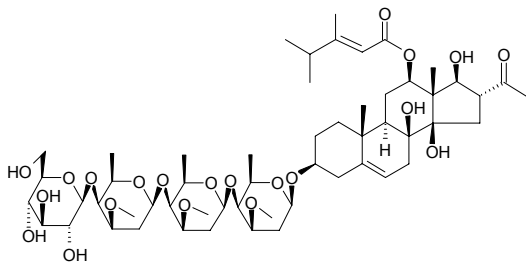
**4551 Cynajapogenin A**

C₂₀H₂₆O₄ (330.43). **Source:** BAI WEI *Cynanchum atratum*, RI BEN NIU PI XIAO *Cynanchum japonicum* **Ref:** 1521.

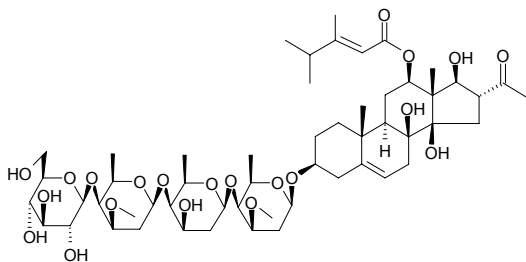


4552 Cynanauricoside A

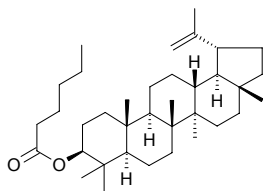
Cauda-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-cymaropynanosyl-(1 \rightarrow 4)- β -D-ol
eandropyranosyl-(1 \rightarrow 4)- β -D-cymaropynanoside C₅₅H₈₈O₂₁ (1085.30). White
amorphous powder, mp 172~176°C. Source: ER YE NIU PI XIAO
Cynanchum auriculatum. Ref: 852.

**4553 Cynanauricoside B**

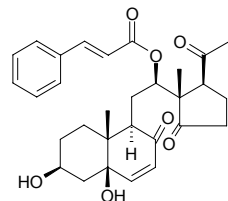
Cauda-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-
digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropynanoside C₅₄H₈₆O₂₁ (1071.27).
White amorphous powder. Source: ER YE NIU PI XIAO *Cynanchum*
auriculatum. Ref: 852.

**4554 Cynanester A**

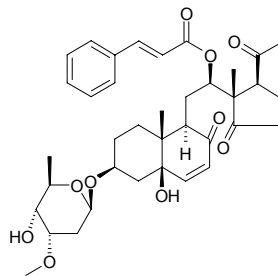
C₃₆H₆₀O₂ (524.88). mp 156~158°C (acetone). Source: E RONG TENG
Cynanchum chinense. Ref: 212.

**4555 Cynaphylloside**

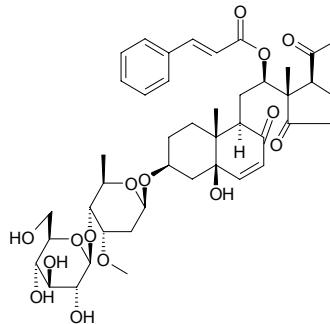
12(*R*)-*O*-Cinnamoyloxy-3 β ,5 β -dihydroxy-8,14-seco-17 β -pregn-6-ene-8,14,
20-trione C₃₀H₃₆O₇ (508.62). White amorphous powder, [α]_D²¹ = -115.8° (*c* =
0.61, MeOH). Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial
parts). Ref: 4218.

**4556 Cynaphylloside A**

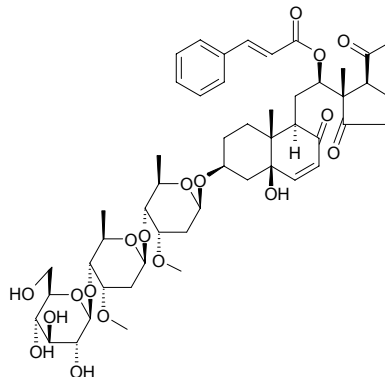
C₃₇H₄₈O₁₀ (652.79). White amorphous powder, [α]_D²¹ = -63.9° (*c* = 0.81,
MeOH). Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref:
4218.

**4557 Cynaphylloside B**

C₄₃H₅₈O₁₅ (814.93). White amorphous powder, [α]_D²¹ = -63.8° (*c* = 0.89,
MeOH). Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref:
4218.

**4558 Cynaphylloside C**

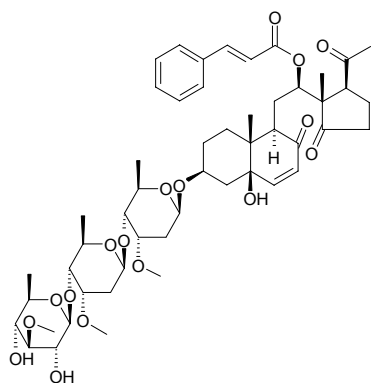
C₅₀H₇₀O₁₈ (959.10). White amorphous powder, [α]_D²¹ = -42.4° (*c* = 0.96,
MeOH). Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref:
4218.



4559 Cynaphylloside D

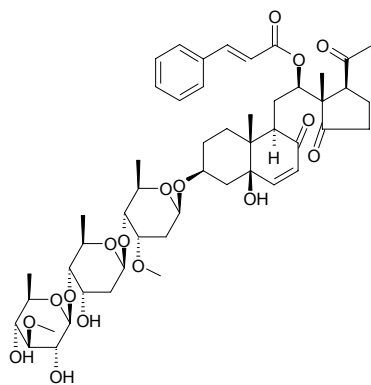
$C_{51}H_{72}O_{17}$ (957.13). White amorphous powder, $[\alpha]_D^{21} = -38.2^\circ$ ($c = 1.10$, MeOH).

Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref: 4218.

**4560 Cynaphylloside E**

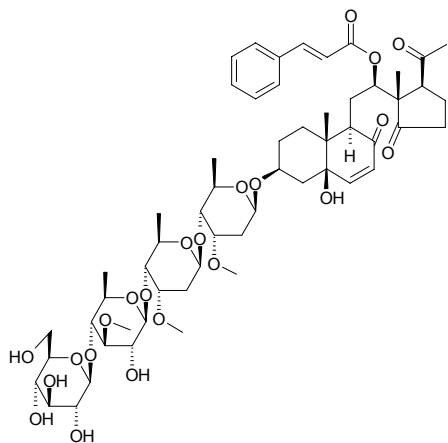
$C_{50}H_{70}O_{17}$ (943.11). White amorphous powder, $[\alpha]_D^{21} = -61.2^\circ$ ($c = 0.50$, MeOH).

Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref: 4218.

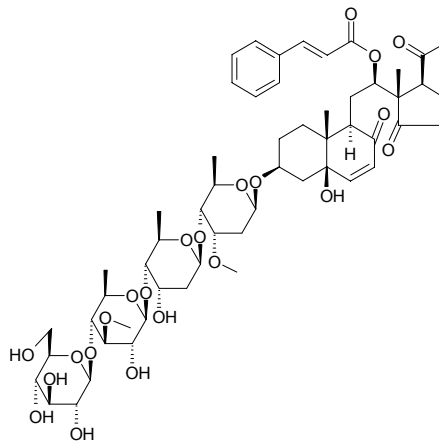
**4561 Cynaphylloside F**

$C_{57}H_{82}O_{22}$ (1119.28). White amorphous powder, $[\alpha]_D^{21} = -53.9^\circ$ ($c = 0.59$, MeOH).

Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref: 4218.

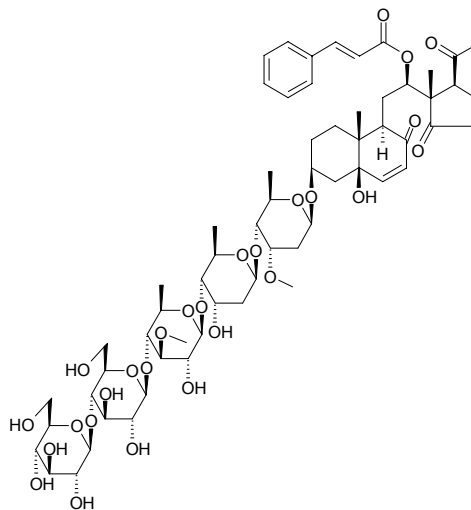
**4562 Cynaphylloside G**

12(*R*)-*O*-Cinnamoyloxy-3 β ,5 β -dihydroxy-8,14-seco-17 α -pregn-6-ene-8,14,20-trione $C_{56}H_{80}O_{22}$ (1105.25). White amorphous powder, $[\alpha]_D^{21} = -52.6^\circ$ ($c = 0.91$, MeOH). Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref: 4218.

**4563 Cynaphylloside H**

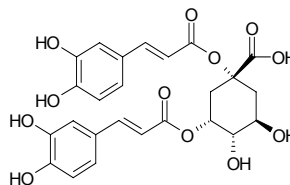
$C_{62}H_{90}O_{27}$ (1267.39). White amorphous powder, $[\alpha]_D^{21} = -56.1^\circ$ ($c = 0.71$, MeOH).

Source: WU YE BAI QIAN *Cynanchum aphyllum* (aerial parts). Ref: 4218.

**4564 Cynarin**

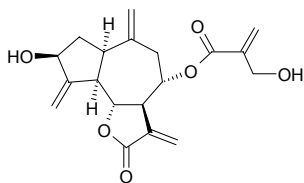
1,5-Di-*O*-caffeoylquinic acid [1182-34-9] $C_{25}H_{24}O_{12}$ (516.46). mp 227~228°C.

Pharm: Antihepatotoxin; choleric; antihypercholesterolemic (cholesterol in serum). Source: CAI JI *Cynara scolymus*, CI CAI JI *Cynara cardunculus*, HUANG WAN *Senecio nemorensis*. Ref: 6, 658.

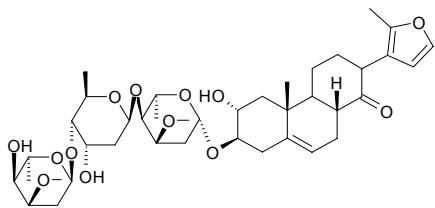


4565 Cynaropicrin

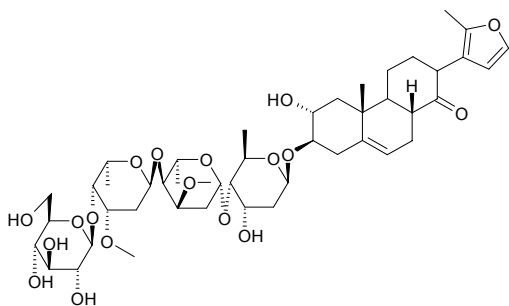
[35730-78-0] C₁₉H₂₂O₆ (346.38). Noncrystal, [α]_D²⁰ = +108.6°. **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits TNF-α production in LPS-activated RAW264.7 cells, IC₅₀ = 8.2 μmol/L, sulphydryl (thiol, -SH) compounds such as L-cysteine, abrogated the inhibitory effect of cynaropicrin)^[4416]; cytotoxic (HeLa, ED₅₀ = 5 μg/mL)^[661]. **Source:** CAI JI *Cynara scolymus*, CI CAI JI *Cynara cardunculus*, AN BEI JU *Amberboa muricata*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 661, 4416.

**4566 Cynascyroside D**

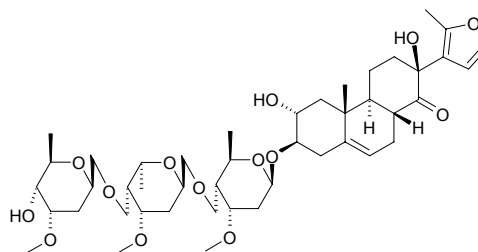
Cynajapogenin A 3-*O*-*L*-cymaropyranosyl-(1→4)-*β*-*D*-digitoxopyranosyl-(1→4)-*β*-*L*-cymaropyranoside C₄₀H₆₀O₁₃ (748.92). Pale yellow powder, mp 102–104°C, [α]_D²³ = –54.3° (*c* = 0.1, MeOH). **Source:** CHAO FENG CAO *Cynanchum ascyrifolium* (root). **Ref:** 4207.

**4567 Cynascyroside E**

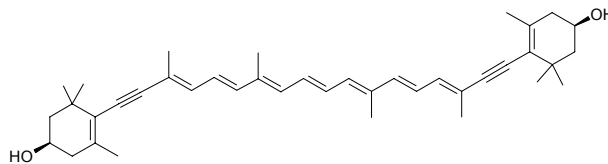
Cynajapogenin A 3-*O*-*β*-*D*-glucopyranosyl-(1→4)-*α*-*L*-diginopyranosyl-(1→4)-*β*-*L*-cymaropyranosyl-(1→4)-*β*-*D*-digitoxopyranoside C₄₆H₇₀O₁₈ (911.06). Pale yellow powder, mp 135–137°C, [α]_D²³ = –65.0° (*c* = 0.1, MeOH). **Source:** CHAO FENG CAO *Cynanchum ascyrifolium* (root). **Ref:** 4207.

**4568 Cynatroside B**

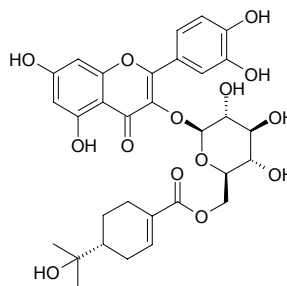
C₄₃H₇₀O₁₄ (835.05). **Pharm:** AChE inhibitor (dose-dependent manner, reversible and non-competitive, IC₅₀ = 3.6 μmol/L); anti-amnesic (mouse, 1.0 mg/kg orl, ameliorates memory impairments induced by scopolamine (1.0 mg/kg body weight sc) as measured in the passive avoidance and the Morris water maze tests, Cynatroside B may hold significant therapeutic value in alleviating certain memory impairments observed in Alzheimer's disease.). **Source:** BAI WEI *Cynanchum atratum* (root). **Ref:** 3365.

**4569 Cynthiaxanthin**

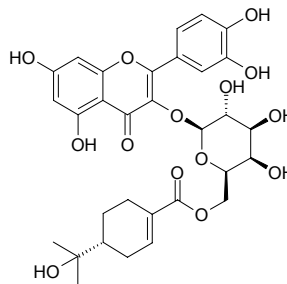
[28380-31-6] C₄₀H₅₂O₂ (564.86). mp 188–190°C. **Source:** HAI XIA *Panaeus orientalis*. **Ref:** 6.

**4570 Cypellogin A**

C₃₁H₃₄O₁₄ (630.61). Light yellow amorphous powder, [α]_D = –7° (*c* = 0.1, MeOH). **Source:** *Eucalyptus cypellocarpa* (leaf). **Ref:** 4525.

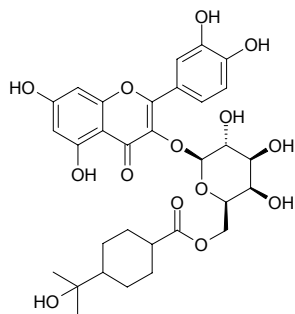
**4571 Cypellogin B**

C₃₁H₃₄O₁₄ (630.61). Light yellow amorphous powder, [α]_D = +47° (*c* = 0.1, MeOH). **Source:** *Eucalyptus cypellocarpa* (leaf). **Ref:** 4525.

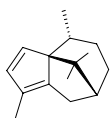


4572 Cypellogin C

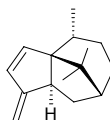
$C_{31}H_{32}O_{14}$ (632.62). Light yellow amorphous powder, $[\alpha]_D^{20} = +10^\circ$ ($c = 0.1$, MeOH). Source: *Eucalyptus cypellocarpa* (leaf). Ref: 4525.

**4573 Cypera-2,4-diene**

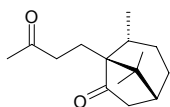
$C_{15}H_{22}$ (202.34). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**4574 (-)-Cypera-2,4(15)-diene**

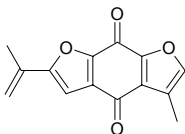
$C_{15}H_{22}$ (202.34). Source: XIANG FU *Cyperus rotundus* (essential oil). Ref: 5210.

**4575 (+)-Cyperadione**

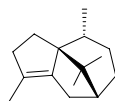
$C_{15}H_{24}O_2$ (236.36). Source: XIANG FU *Cyperus rotundus* (essential oil). Ref: 5210.

**4576 Cyperaquinone**

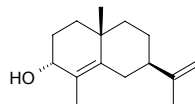
[26962-40-3] $C_{14}H_{10}O_4$ (242.23). Source: QI PAN SHA CAO *Cyperus haspan*, *Cyperus* sp. Ref: 658.

**4577 Cyperene**

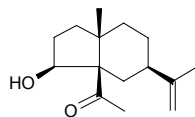
[2387-78-2] $C_{15}H_{24}$ (204.36). bp 104°C/5mmHg. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XIANG FU *Cyperus rotundus*. Ref: 2, 6.

**4578 Cyperol**

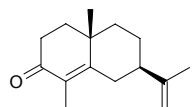
[20084-99-5] $C_{15}H_{24}O$ (220.36). bp 147~150°C/8mmHg. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**4579 Cyperolone**

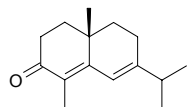
[13741-46-3] $C_{15}H_{24}O_2$ (236.36). mp 41~42°C, bp 120°C/0.1mmHg. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**4580 α-Cyperone**

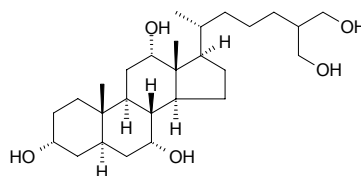
[473-08-5] $C_{15}H_{22}O$ (218.34). bp (+) 177°C, (±) 128~129°C/2.8mmHg. Pharm: Platelet aggregation inhibitor (10μmol/L, InRt = 100%, antagonist of arachidonic acid). Source: XIANG FU *Cyperus rotundus* (dried rhizome: content = 0.23%^[5501]; content = 0.19%^[5508]). Ref: 6, 5501, 5508.

**4581 β-Cyperone**

$C_{15}H_{22}O$ (218.34). bp 175~176°C. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

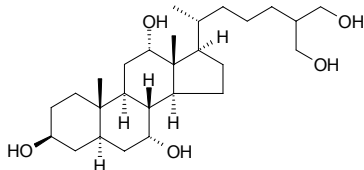
**4582 5α-Cyprinol**

[2952-70-7] $C_{27}H_{48}O_5$ (452.68). mp 242~244°C. Source: LI YU DAN *Cyprinus carpio*. Ref: 6.

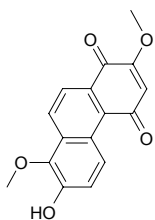


4583 5 β -Cyprinol

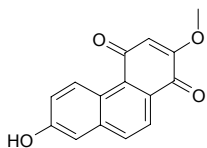
[2486-18-2] C₂₇H₄₈O₅ (452.68). Source: QING WA DAN *Rana nigromaculata*; *Rana plancyi*. Ref: 6.

**4584 Cypripedin**

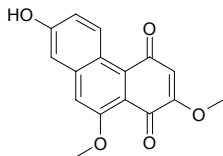
[8031-72-9] C₁₆H₁₂O₅ (284.27). Pharm: Dermatitic (causes contact dermatitis). Source: SHAO LAN *Cypripedium calceolus*. Ref: 658.

**4585 Cypritolbetquinone A**

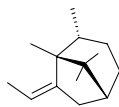
Densiflorol B; 7-Hydroxy-2-methoxy-1,4-phenanthraquinone C₁₅H₁₀O₄ (254.24). Red powder, mp 260~262°C. Source: DA HUA SHAO LAN *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*] (rhizome), MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 4863, 5171.

**4586 Cypritolbetquinone B**

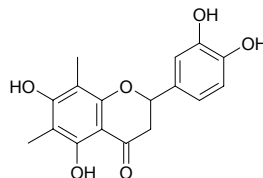
7-Hydroxy-2,10-dimethoxy-1,4-phenanthraquinone C₁₆H₁₂O₅ (284.27). Red powder, mp 260~262°C. Source: DA HUA SHAO LAN *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*] (rhizome). Ref: 4863.

**4587 Cyprotene**

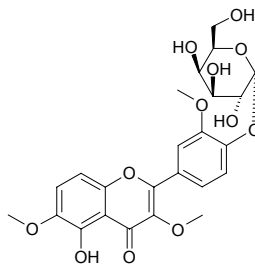
C₁₄H₂₄ (192.35). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**4588 Cyrtominetin**

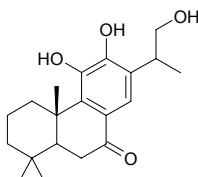
C₁₇H₁₆O₆ (316.31). Source: HUN TOU JI *Cyrtomium fortunei*. Ref: 6.

**4589 Cyrtophyllin**

C₂₄H₂₆O₁₂ (506.47). Gray yellow amorphous powder, mp 152~154°C. Pharm: Anti-inflammatory (rat, arthritis induced by egg white or glucosan); diuretic (rat, orl, 400mg/kg); LD₅₀ (mus, orl) ≥ 8g/kg, (mus, ip) = 5g/kg. Source: LU BIAN QING *Clerodendron cyrtophyllum*. Ref: 661.

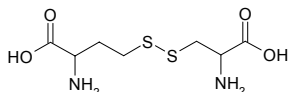
**4590 Cyrtophyllone B**

C₂₀H₂₈O₄ (332.44). mp 241.8°C, [α]_D²⁰ = -4.0° (c = 1.4, MeOH). Pharm: Antiproliferative (*in vitro*, MTT assay, CEM, IC₅₀ = 19.9μmol/L, control Doxorubicin, IC₅₀ = 0.036μmol/L, HeLa, IC₅₀ = 20.5μmol/L, Doxorubicin, IC₅₀ = 0.027μmol/L, HCT8, IC₅₀ = 59.3μmol/L, Doxorubicin, IC₅₀ = 0.024μmol/L, MCF7, IC₅₀ = 70.2μmol/L, Doxorubicin, IC₅₀ = 0.183μmol/L, B-16, IC₅₀ = 28.6μmol/L, Doxorubicin, IC₅₀ = 0.056μmol/L)^[4940]. Source: *Aegiphila lhotzkyana* (root). Ref: 4940.

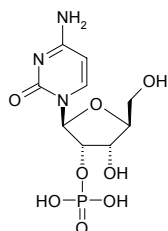


4591 Cystathionine

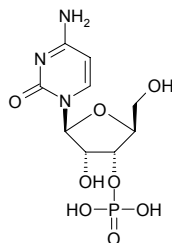
[6899-07-6] $C_7H_{14}N_2O_4S_2$ (254.33). mp L (+) 312°C (dec). Source: MO GU *Agaricus campestris*. Ref: 6.

**4592 Cytidylic acid A**

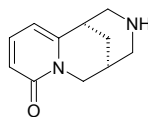
[85-94-9] $C_9H_{14}N_3O_8P$ (323.20). mp 238~239°C. Source: GOU QI YE *Lycium chinense*. Ref: 6.

**4593 Cytidylic acid B**

[84-52-6] $C_9H_{14}N_3O_8P$ (323.20). mp 233~234°C. Source: GOU QI YE *Lycium chinense*. Ref: 6.

**4594 Cytisine**

Baptitoxine; Sophorine [485-35-8] $C_{11}H_{14}N_2O$ (190.25). mp (+) 155°C, (±) 147°C; $[\alpha]_D^{17} = -119^\circ$, soluble in water, acetone, methanol, ethanol, chloroform, acetic ester, moderate soluble in benzene, insoluble in ether, petroleum ether.^[5507] Pharm: Hallucinogen (causes illusion); respiratory stimulant (reflexive); supercharging for cerebral circulation; teratogen (rbt); LD₅₀ (mus, ip) = 18mg/kg. Source: AO MA JIN QUE HUA *Cytisus osmariensis*^[5507], DU DOU *Laburnum anagyroides*, GAO SHAN HUANG HUA *Thermopsis alpina*, HU SHENG YE YE JUE MING *Thermopsis alternifolia*, JING DOU *Ulex europaeus*^[5507], KU DOU ZI *Sophora alopecuroides*, KU SHEN SHI *Sophora flavescens* [Syn. *Sophora angustifolia*], KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], MU MA DOU *Thermopsis lanceolata*, XIAO YE YE JUE MING *Thermopsis chinensis*, YE JUE MING *Thermopsis lupinoides*, YING ZHAO DOU *Spartium junceum*, ZI TENG *Wisteria sinensis*, ZI TENG ZI *Wisteria sinensis*. Ref: 4, 6, 593, 658, 5507.



Jiaju Zhou · Guirong Xie · Xinjian Yan

Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Vol.2

Isolated Compounds D-G

 Springer

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Natural Sources and Applications

Jiaju Zhou • Guirong Xie • Xinjian Yan

Encyclopedia of
Traditional Chinese Medicines
Molecular Structures, Pharmacological
Activities, Natural Sources and Applications

Vol. 2: Isolated Compounds D-G

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Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

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Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

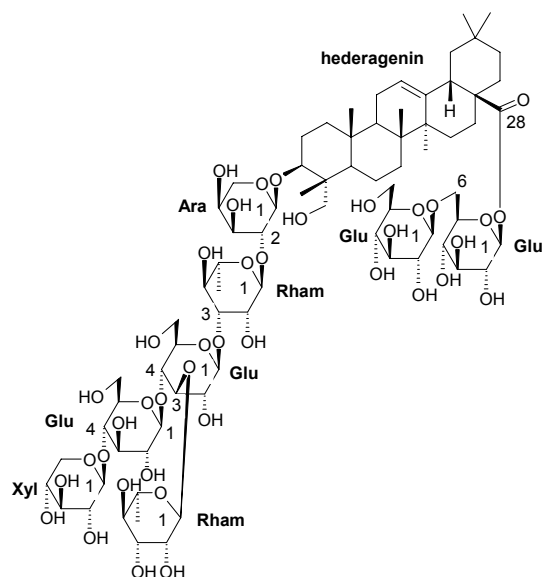
Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl(1 \rightarrow 4)]
 [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)-
 α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-
 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside

Normalization of Pharmacological Data. More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD₅₀, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

Term name (*in vitro/in vivo*,
 target cell **1**, quantitative data,
 control Compound, control's data;
 target cell **2**, quantitative data,
 control Compound, control's data;
 target cell **3**, quantitative data,
 control Compound, control's data;
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, IC₅₀ = 4.7µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 0.08µg/mL;
 CHAGO human undifferentiated lung cancer cell, IC₅₀ = 5.7µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 2.3µg/mL;
 HepG2 human liver cancer cell, IC₅₀ = 6.5µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 0.9µg/mL;
 Kato3 human gastric cancer cell, IC₅₀ = 5.3µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 1.7µg/mL;
 SW620 human colorectal adenocarcinoma cell, IC₅₀ = 5.6µg/mL,
 control Doxorubicin hydrochloride, IC₅₀ = 1.1µg/mL).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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- R29** Scientific Terms Laboratory of Science Press, *Chinese-English Biological Dictionary*, Science Press, Beijing, 1998
- R30** J. G. Harris and M. W. Harris, (Yufei Wang, et al., translated) *Plant Identification Terminology: An Illustrated Glossary*, Spring Lake Publishing, Payson UT, 2001, Science Press, Beijing, 2001
- R31** Rensheng Xu, et al., *Chemistry of Natural Products*, Second Edition, Science Press, Beijing, 2004
- R32** Jingying Tan, *English-Chinese Biological Dictionary of Biochemistry and Molecular Biology*, Second Edition, Science Press, Beijing, 2007
- R33** Wenbao Chang, et al., *Dictionary of Chemistry*, Science Press, Beijing, 2008

How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

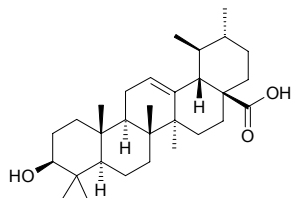
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.11µg/mL)^[4369];

cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)µmol/L, control Etoposide, IC₅₀ = (0.5±0.2)µmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)µmol/L; KB cell, IC₅₀ = (8.2±2.7)µmol/L, Etoposide, IC₅₀ = (0.9±0.3)µmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)µmol/L; HT29 cell, IC₅₀ = (4.7±1.5)µmol/L, Etoposide, IC₅₀ = (2.4±0.5)µmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)µmol/L)^[5254];

antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);

antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];

antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50~400µg/mL, gram-negative bacteria *in vitro*, MIC = 200~800µg/mL, microzyme *in vitro*, MIC = 100~700µg/mL);

antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5µg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3277)^[4986];

anticonvulsant (induced by corazol);

anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);

anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];

COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130µmol/L)^[4415];

COX-2 enzyme inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];

antipyretic (clearly reduces normal body temperature of rat);

reduces serum transaminase (animal, 100mg/kg);

antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)^[2579];

mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];

platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (511±4)µmol/L, control ASA, IC₅₀ = (420±3)µmol/L; 1~4µmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)µmol/L, ASA, IC₅₀ = (53.0±4.5)µmol/L; 10~40µmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)μmol/L, ASA, IC₅₀ = (66.0±2.1)μmol/L; 1~5μmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (340±12)μmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)μmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (ltn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	<i>D</i> -GalN	<i>D</i> -galactosamine
<i>c</i>	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	<i>N</i> -methyl- <i>D</i> -aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmN Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccinia open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermatoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGc803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

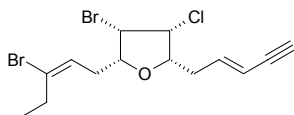
Volume 2 Isolated Compounds (D-G)

D

4595 Dactylyne

$C_{14}H_{17}Br_2ClO$ (396.55). mp 62–63°C, $[\alpha]_D^{25} = -38.2^\circ$ ($c = 0.19$, $CHCl_3$).

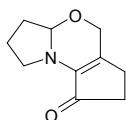
Source: *Laurencia* sp., *Aplysia dactylomela*. Ref: 2306.



4596 Daechu alkaloid A

$C_{10}H_{13}NO_2$ (179.22). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*.

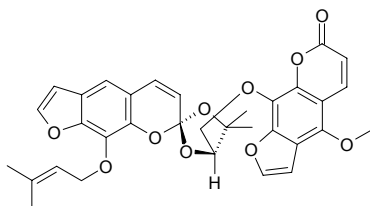
Ref: 660.



4597 Dahuribirin A

$C_{33}H_{30}O_{10}$ (586.60). Colorless viscous oil, $[\alpha]_D^{28} = -3.6^\circ$ ($c = 0.48$,

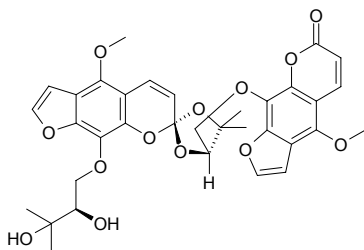
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4598 Dahuribirin B

$C_{34}H_{34}O_{13}$ (650.64). Colorless viscous oil, $[\alpha]_D^{30} = -4.6^\circ$ ($c = 0.59$,

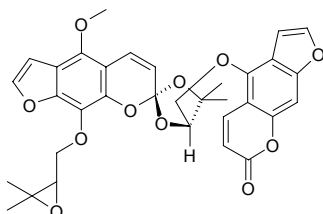
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4599 Dahuribirin C

$C_{33}H_{30}O_{11}$ (602.60). Colorless viscous oil, $[\alpha]_D^{31} = +20.0^\circ$ ($c = 0.48$,

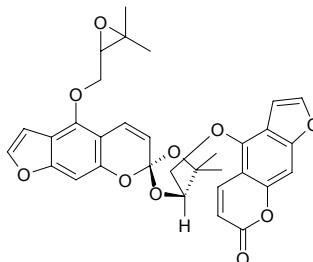
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4600 Dahuribirin D

$C_{32}H_{28}O_{10}$ (572.57). Colorless viscous oil, $[\alpha]_D^{24} = -0.22^\circ$ ($c = 0.65$,

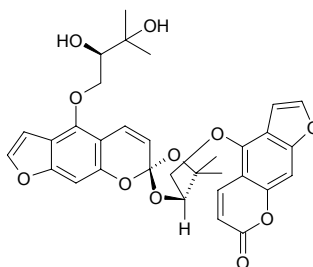
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4601 Dahuribirin E

$C_{32}H_{30}O_{11}$ (590.59). Colorless viscous oil, $[\alpha]_D^{24} = +4.6^\circ$ ($c = 0.62$,

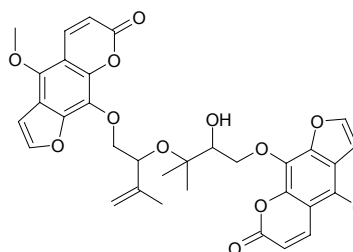
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4602 Dahuribirin F

$C_{34}H_{32}O_{12}$ (632.63). Colorless viscous oil, $[\alpha]_D^{24} = -1.1^\circ$ ($c = 0.49$,

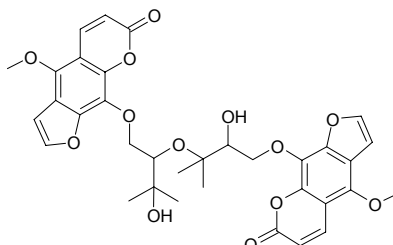
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



4603 Dahuribirin G

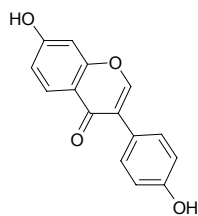
$C_{34}H_{34}O_{13}$ (650.64). Colorless viscous oil, $[\alpha]_D^{24} = +5.2^\circ$ ($c = 0.54$,

dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.

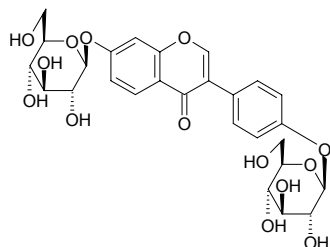


4604 Daidzein

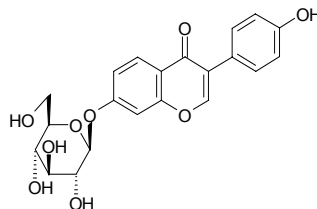
4',7-Dihydroxyisoflavone [486-66-8] C₁₅H₁₀O₄ (254.24). **Pharm:** Antifungal; antispasmodic (mus small intestine); CVS activity (enhances collateral circulation and oxygen consumption upon lack of blood in myocardium); estrogenic activity; increases coronary flow (narcosis dog); lipase inhibitor; anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (KB, IC₅₀ > 75 μmol/L, Helenalin, IC₅₀ = (0.64±0.08) μmol/L, Melphalan, IC₅₀ = (6.0±0.5) μmol/L; Mono-Mac-6, IC₅₀ > 75 μmol/L, Helenalin, IC₅₀ = (3.1±0.3) μmol/L; Jurkat-T, IC₅₀ > 75 μmol/L, Helenalin, IC₅₀ = (1.14±0.08) μmol/L, Melphalan, IC₅₀ = (9.1±0.8) μmol/L)^[5077]; antibacterial (*Staphylococcus aureus*, MIA = 1.00 μg, Chloramphenicol, MIA = 0.0001 μg; *Bacillus subtilis*, MIA = 5.00 μg, Chloramphenicol, MIA = 0.0001 μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.05 μg, control Miconazole, MIA = 0.0001 μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.1 μg, IC₅₀ = 380 μg/mL; control Quercetin, MIA < 0.05 μg, IC₅₀ = 7 μg/mL, Gallic acid, MIA < 0.05 μg, IC₅₀ = 4 μg/mL; Ascorbic acid, MIA < 0.10 μg, IC₅₀ = 18 μg/mL)^[5247]. **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0058% dw)^[4630], E MEI GE *Pueraria omeiensis* (root: content = 0.055%)^[5508], FEN GE *Pueraria lobata* var. *thomsonii* (root: mean content of 2 origins = 0.035%)^[5508], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content of 10 origins = 0.137%)^[5508], HEI DA DOU *Glycine max*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG HUA MU *Piptanthus nepalensis*, HUANG MAO GE *Pueraria calycina* (root: content = 0.030%)^[5508], JI KUAN CI TONG *Erythrina latissima* (stem wood), MU XU *Medicago sativa*, SAN LIE YE GE *Pueraria phaseoloides* (root: content = 0.090%)^[5508], SAN XIAO CAO *Trifolium repens*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], SHI YONG GE *Pueraria edulis* (root: content = 0.063%)^[5508], SI TE WEN HUANG TAN *Dalbergia stevensonii*, YUN NAN GE TENG *Pueraria peduncularis* (root: content = 0.053%)^[5508], *Bituminaria morisiana* (leaf). **Ref:** 2, 4, 658, 660, 4415, 4630, 5077, 5247, 5508.

**4605 Daidzein 4',7-diglucoside**

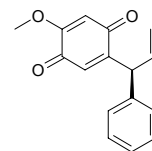
C₂₇H₃₀O₁₄ (578.53). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content of 7 origins = 0.453%)^[5508], GAN GE TENG GEN *Pueraria thomsonii*. **Ref:** 2, 660, 5508.

**4606 Daidzin**

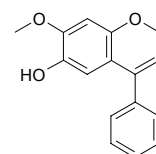
Daidzioside [552-66-9] C₂₁H₂₀O₉ (416.39). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0074% dw)^[4630], E MEI GE *Pueraria omeiensis* (root: content = 1.0–5%)^[5508], FEN GE *Pueraria lobata* var. *thomsonii* (root: content = 1.51%)^[5508], GAN GE TENG GEN *Pueraria thomsonii* (root: content = 0.158%)^[5508], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: content = 0.78%)^[5508], SAN LIE YE GE *Pueraria phaseoloides* (root: content = 0.72%)^[5508], SHI YONG GE *Pueraria edulis* (root: content = 0.44%)^[5508]. **Ref:** 2, 660, 4630, 5508.

**4607 Dalbergenone**

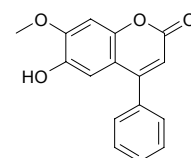
[2543-95-5] C₁₆H₁₄O₃ (254.29). mp 114–116°C. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 6.

**4608 Dalbergichromene**

7-Methoxy-4-phenyl-2H-1-benzopyran-6-ol [32066-31-2] C₁₆H₁₄O₃ (254.29). mp 99–100°C. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 6.

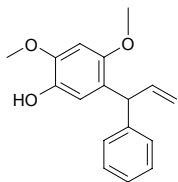
**4609 Dalbergin**

6-Hydroxy-7-Methoxy-4-phenylcoumarin [482-83-7] C₁₆H₁₂O₄ (268.27). mp 210°C. **Pharm:** CVS activity (increases coronary flow and slows heart rate, perfused heart of rbt *in vitro*). **Source:** FEI ZHOU HUANG TAN *Dalbergia melanoxyton*, HE AN HUANG TAN *Dalbergia riparia*, JIANG ZHEN XIANG *Dalbergia odorifera*, JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0024% dw)^[4716], SI TE WEN HUANG TAN *Dalbergia stevensonii*, XI A LA HUANG TAN *Dalbergia cearensis*, XIAO DAO XING HUANG TAN *Dalbergia cultrata*, YIN DU HUANG TAN *Dalbergia sissoo*. **Ref:** 6, 658, 4716.

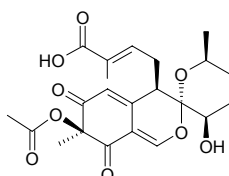


4610 Dalbergiphenol

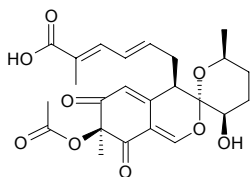
$C_{17}H_{18}O_3$ (270.33). **Pharm:** Testosterone 5 α -reductase inhibitor (25 μ g/mL, InRt = 8.2%, 50 μ g/mL, InRt = 18.9%, 100 μ g/mL, InRt = 51.8%; control Glycyrrhetic acid, 25 μ g/mL, InRt = 31.7%, 50 μ g/mL, InRt = 64.7%, 100 μ g/mL, InRt = 87.1%). **Source:** JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0074%dw). **Ref:** 4716.

**4611 Daldinin C**

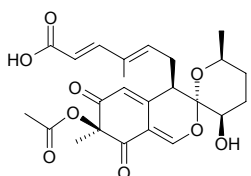
$C_{22}H_{26}O_9$ (434.45). **Pharm:** Antioxidant (DPPH scavenger, IC_{50} = 412.0 μ mol/L, control Ascorbic acid, IC_{50} = 16.5 μ mol/L). **Source:** AN ZONG TAN TUAN JUN *Hypoxyton fuscum*. **Ref:** 3771.

**4612 Daldinin E**

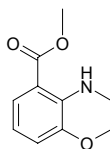
(2*E*,4*E*)-Hexa-2,4-dienoic acid, 2-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester $C_{24}H_{28}O_9$ (460.49). Oil, $[\alpha]_D^{20}$ = +87.7° (c = 0.3, $CHCl_3$). **Pharm:** Antioxidant (DPPH scavenger, IC_{50} = 178.9 μ mol/L, control Ascorbic acid, IC_{50} = 16.5 μ mol/L). **Source:** AN ZONG TAN TUAN JUN *Hypoxyton fuscum*. **Ref:** 3771.

**4613 Daldinin F**

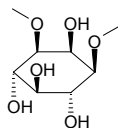
(2*E*,4*E*)-Hexa-2,4-dienoic acid, 4-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester $C_{24}H_{28}O_9$ (460.49). Oil, $[\alpha]_D^{20}$ = +28.9° (c = 0.4, $CHCl_3$). **Pharm:** Antioxidant (DPPH scavenger, IC_{50} = 212.3 μ mol/L, control Ascorbic acid, IC_{50} = 16.5 μ mol/L). **Source:** AN ZONG TAN TUAN JUN *Hypoxyton fuscum*. **Ref:** 3771.

**4614 Damascenine**

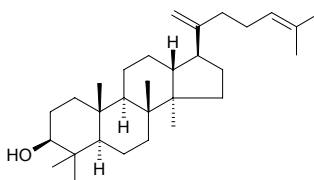
[483-64-7] $C_{10}H_{13}NO_3$ (195.22). **Pharm:** Anti-inflammatory (rat, swollen foot model); antipyretic. **Source:** YE HEI ZHONG CAO *Nigella arvensis*, HEI ZHONG CAO *Nigella damascena*. **Ref:** 658.

**4615 Dambonitol**

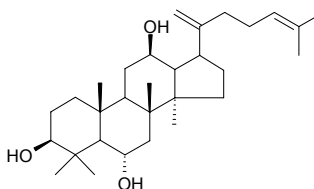
[532-94-4] $C_8H_{16}O_6$ (208.21). mp 210°C. **Source:** JIA ZHU TAO *Nerium indicum*, LUO SHI TENG *Trachelospermum jasminoides*. **Ref:** 6.

**4616 Dammar-20,24-dien-3 β -ol**

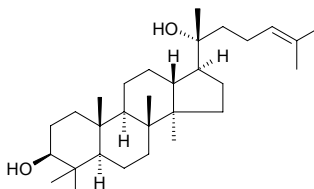
[20460-34-8] $C_{30}H_{50}O$ (426.73). mp 136~138°C. **Source:** WU YUE CHA *Antidesma bunius*. **Ref:** 6.

**4617 Dammar-20(21),24-diene-3 β ,6 α ,12 β -triol**

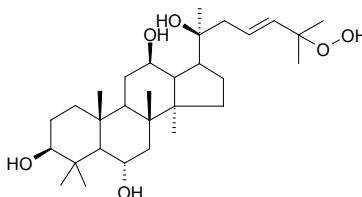
$C_{30}H_{50}O_3$ (458.73). Colorless fascicular crystals (MeOH), mp 145~148°C. **Source:** XI YANG SHEN JING YE *Panax quinquefolium*. **Ref:** 4874.

**4618 Dammar-24-ene-3 β ,20-diol I**

[19132-83-3] $C_{30}H_{52}O_2$ (444.75). mp 142~144°C. **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

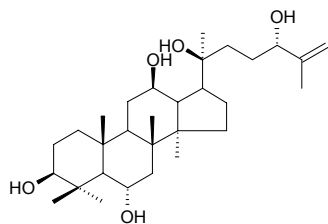
**4619 20(S)-Dammar-23-ene-25-hydroperoxyl-3 β ,6 α ,12 β ,20-tetrol**

$C_{30}H_{52}O_6$ (508.75). White crystalline powder, mp 142~145°C. **Source:** XI YANG SHEN JING YE *Panax quinquefolium*. **Ref:** 4874.

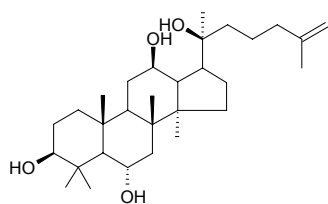


4620 20(S),24(S)-Dammar-25(26)-ene-3 β ,6 α ,12 β ,20,24-pentanol

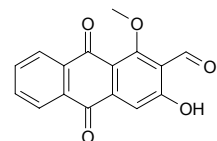
C₃₀H₅₂O₅ (492.75). White crystalline powder, mp 142–144°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

**4621 20(S)-Dammar-25(26)-ene-3 β ,6 α ,12 β ,20-tetrol**

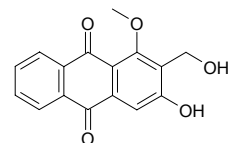
C₃₀H₅₂O₄ (476.75). Colorless fascicular crystals (MeOH), mp 259–260°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

**4622 Damnacanthal**

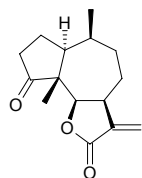
[477-84-9] C₁₆H₁₀O₅ (282.26). mp 208°C. Source: HU CI *Damnacanthus indicus*, TU LIAN QIAO *Hymenodictyon excelsum*. Ref: 6.

**4623 Damnacanthol**

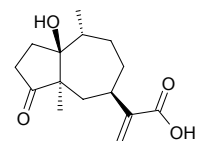
[477-83-8] C₁₆H₁₂O₅ (284.27). mp 288°C. Source: HU CI *Damnacanthus indicus*. Ref: 6.

**4624 Damsin**

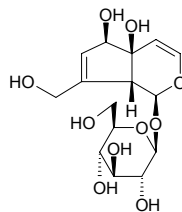
2,3-Dihydroambrosin [1216-42-8] C₁₅H₂₀O₃ (248.32). mp 109–111°C; 124–125°C. Pharm: Schistosomacide; cytotoxic (KB, ED₅₀ > 100µg/mL); molluscicide. Source: PU TONG TUN CAO *Ambrosia ambrosioides*, TUN CAO *Ambrosia artemisiifolia*. Ref: 4, 658.

**4625 Damsinic acid**

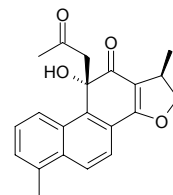
[22844-19-5] C₁₅H₂₂O₄ (266.34). mp 112–113°C. Source: TUN CAO *Ambrosia artemisiifolia*. Ref: 1521.

**4626 Danmelittoside**

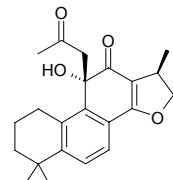
Monomelittoside C₁₅H₂₂O₁₀ (362.34). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], OU ZHOU MI FENG HUA *Melittis melissophyllum*. Ref: 2, 1521.

**4627 Danshenol A**

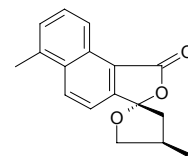
[189308-08-5] C₂₁H₂₀O₄ (336.39). Taube acicular crystals, mp 182°C (methanol), [α]_D²⁵ = –136.4° (c = 0.07, chloroform). Pharm: Aldose reductase inhibitor (rat eye lens, IC₅₀ = 0.1µmol/L). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 993.

**4628 Danshenol B**

[189308-09-6] C₂₂H₂₆O₄ (354.45). Yellow acicular crystals, mp 176°C (methanol), [α]_D²⁵ = –131.6° (c = 0.10, chloroform). Pharm: Aldose reductase inhibitor (rat eye lens, IC₅₀ = 1.75µmol/L). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 993.

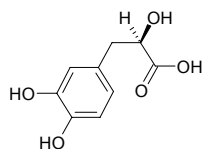
**4629 Danshenspiroketalactone**

[100414-80-0] C₁₇H₁₆O₃ (268.32). White acicular crystals, mp 203–205°C. Source: DAN SHEN *Salvia miltiorrhiza*, GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 38, 4538.

**4630 Danshensu**

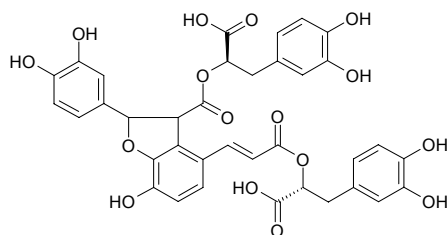
[76822-21-4] C₉H₁₀O₅ (198.18). White, long acicular crystals, mp 84–86°C; sodium salt: white acicular crystals, mp 255–258°C, [α]_D^{20.5} = +35° (water); [α]_D^{27.5} = +14.8° (1N HCl). Pharm: Coronary vasodilator (pig isolated coronary artery, 1.0µg/mL, also against coronary contraction induced by morphine or propranolol)^[5501]; increases tolerance to anoxia (mouse ip300mg/kg or 50mg/kg, clearly extends survival time)^[5501]; anti-ischemia myocardial (rat im 20mg/kg, ischemia myocardial induced by hypophysin)^[5501]; anti-myocardial infarction (dog im 8mg/kg, rbt im 10mg/kg)^[5501]; antioxidant (strong O₂⁻ superoxide anion scavenger, protects myocardial ischemia-reperfusion injury in rat myocardium mitochondrial membrane)^[5501]; improves barrier of microcirculation (rbt iv in ear 4–6mg/kg, induced by macromolecular dextran; mouse drop iv

1mg/0.1mL, induced by arterenol in mesentery)^[5501], platelet aggregation inhibitor (rbt iv in ear 20mg/kg; rat iv 100mg/kg; *in vitro* 5~600µg/mL, distinctly inhibits platelet aggregation induced by ADP or thrombin)^[5501].
Source: DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.664%)^[5508] **Ref:** 661, 5501, 5508.



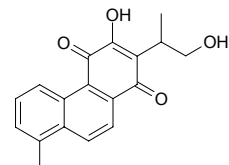
4631 Danshensuan B

Salvianolic acid B [115939-25-8] C₃₆H₃₀O₁₆ (718.63). Amorphous yellowish powder, [α]_D¹⁸ = +92° (c = 0.07, ethanol). **Pharm:** Free radical scavenger; fibrinolytic function; increases coronary flow; antioxidant (inhibits lipid peroxidation strongly, induced by vitamin C-nicotinamide ADP and Fe²⁺-cysteine in microsomes of murine cerebral, hepatic and renal cells); main component of phenol character acid in *Salvia miltiorrhiza*. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2, 900.



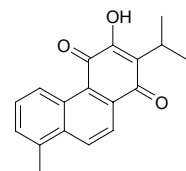
4632 Danshenxinkun A

Neotanshinone A; Tanshiquinone A C₁₈H₁₆O₄ (296.33). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 0.78µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



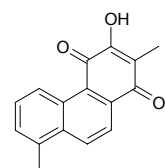
4633 Danshenxinkun B

Neotanshinone B; Tanshiquinone B C₁₈H₁₆O₃ (280.33). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 3.1µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



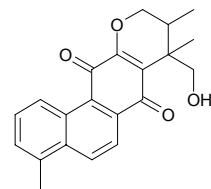
4634 Danshenxinkun C

Neotanshinone C; Tanshiquinone C C₁₆H₁₂O₃ (252.27). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 6.3µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



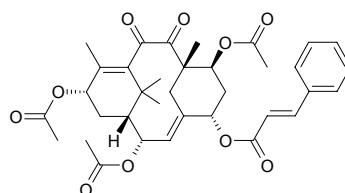
4635 Danshenxinkun D

C₂₁H₂₀O₄ (336.39). Pink acicular crystals, mp 178~180°C. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 34.



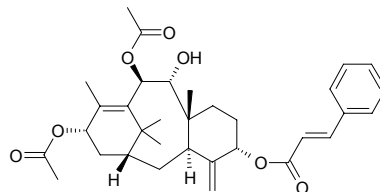
4636 Dantaxusin A

5α-Cinnamoyloxy-2α,7β,13α-triacetoxy-2(3→20)abeo-taxa-4(20),11-diene e-9,10-dione C₃₅H₄₀O₁₀ (620.7). Colorless amorphous powder, mp 114~116°C, [α]_D²⁷ = +12° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.



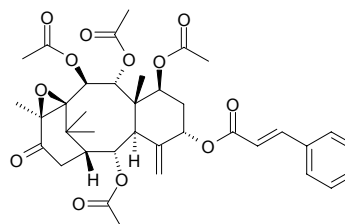
4637 Dantaxusin B

5α-Cinnamoyloxy-9α-hydroxy-10β,13α-diacetoxytaxa-4(20),11-diene C₃₃H₄₂O₇ (550.7). Colorless amorphous powder, mp 245~246°C, [α]_D²⁷ = -8° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.



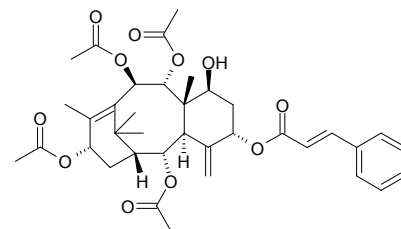
4638 Dantaxusin C

C₃₇H₄₄O₁₂ (680.76). Colorless amorphous powder, mp 122~123°C, [α]_D²⁴ = +1.25° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 4611.



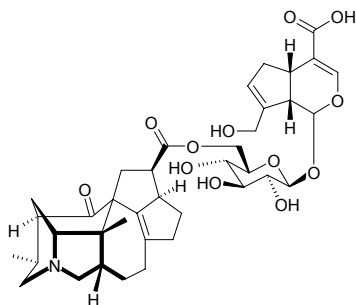
4639 Dantaxusin D

C₃₇H₄₆O₁₁ (666.77). Colorless amorphous powder, mp 111~112 °C, [α]_D²⁴ = +6.88° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 4611.

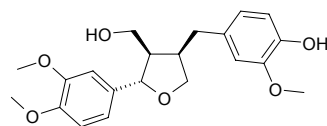


4640 Daphcalycinoidine C

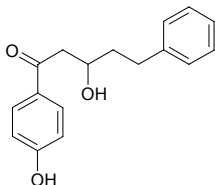
$C_{38}H_{49}NO_{12}$ (711.81). Colorless amorphous solid, $[\alpha]_D^{22} = -15^\circ$ ($c = 0.6$, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.00042%). Ref: 4754.

**4641 Daphneligin**

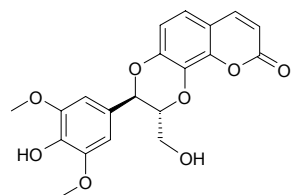
$C_{21}H_{26}O_6$ (374.44). Amorphous powder, mp 136~138°C, $[\alpha]_D = +11.5^\circ$ ($c = 0.10$, $CHCl_3$) Source: YOU RUI XIANG *Daphne oleoides*. Ref: 1883.

**4642 Daphneolone**

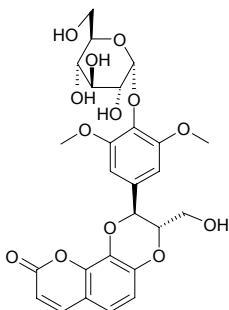
[54835-64-2] $C_{17}H_{18}O_3$ (270.33). Source: RUI XIANG GEN *Daphne odora*. Ref: 6.

**4643 Daphneticin**

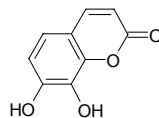
[83327-22-4] $C_{20}H_{18}O_8$ (386.36). Pharm: Cytotoxic (W_{256}). Source: SHAN GAN RUI XIANG *Daphne tangutica*, AO YE RUI XIANG *Daphne retusa*. Ref: 658.

**4644 Daphneticin-4''-O-α-D-glucopyranoside**

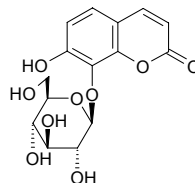
$C_{26}H_{28}O_{13}$ (548.51). mp 254~255°C, $[\alpha]_D = +23.5^\circ$ ($c = 0.10$, DMSO). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2279.

**4645 Daphnetin**

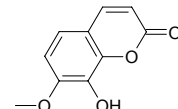
7,8-Dihydroxycoumarin [486-35-1] $C_9H_6O_4$ (178.15). mp 257~258°C; 263~264°C. Pharm: Analgesic; antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Shigella flexneri* and *Bacillus pyocyaneus*); anti-inflammatory; anti-ischemia, myocardial; immunomodulator (inhibits immune response of specific cells and that of body fluid, but enhances phagocytotic function of enterocelia M_{phi} macrophage); improves myocardium metabolism and promotes restoration of myocardial function; increases coronary flow; reduces consumption of oxygen in myocardium; sedative; LD_{50} (mus, ip) = 429mg/kg, (mus, iv) = 375mg/kg, (mus, orl) = 5.37g/kg. Source: HUI HUI DOU *Cicer arietinum*, LANG DU *Stellera chamaejasme*, QIAN JIN ZI *Euphorbia lathyris*, RUI XIANG HUA *Daphne odora*. Ref: 4, 6, 556, 658, 5501, 5507.

**4646 Daphnetin-8-glucoside**

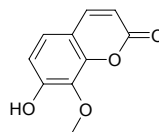
[20853-56-9] $C_{15}H_{16}O_9$ (340.29). mp 223~224°C. Source: RUI XIANG HUA *Daphne odora*. Ref: 6.

**4647 Daphnetin-7-methyl ether**

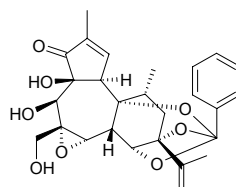
[19492-03-6] $C_{10}H_8O_4$ (192.17). mp 175.5°C. Source: BA XIAN HUA *Hydrangea macrophylla*. Ref: 6.

**4648 Daphnetin-8-methyl ether**

Hydrangetin [485-90-5] $C_{10}H_8O_4$ (192.17). Needles (C_6H_6), mp 152°C, mp 157~157.5°C, mp 185°C. Pharm: Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. Source: BA XIAN HUA *Hydrangea macrophylla*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], QUAN YUAN YE HUA *Zanthoxylum integrifolium*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. Ref: 6, 2176, 3069.

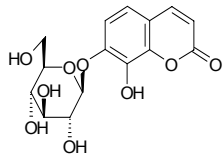
**4649 Daphnetoxin**

[28164-88-7] $C_{27}H_{30}O_8$ (482.54). Pharm: LD_{50} (mus, orl) = 0.25mg/kg. Source: OU YA RUI XIANG *Daphne mezereum*. Ref: 658.

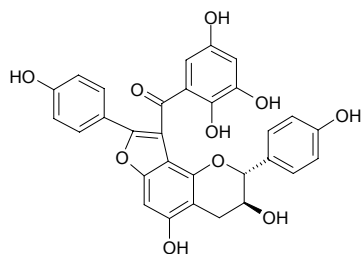


4650 Daphnin

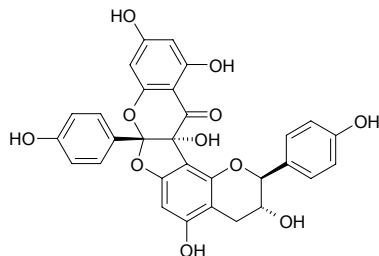
Daphnetin-7-glucoside [486-55-5] $C_{15}H_{16}O_9$ (340.29). mp 215°C (dec).
 Source: RUI XIANG HUA *Daphne odora*, SU MI *Setaria italica*. Ref: 6.

**4651 Daphnodorin B**

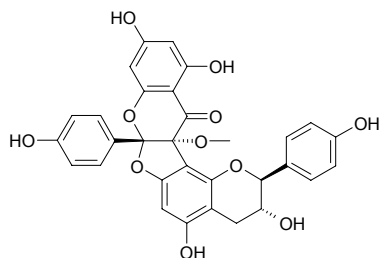
[95733-02-1] $C_{30}H_{22}O_{10}$ (542.50). Source: LIAO GE WANG GEN
Wikstroemia indica, RUI XIANG GEN *Daphne odora*. Ref: 2268, 1521.

**4652 Daphnodorin G**

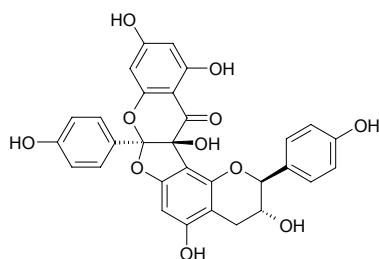
$C_{30}H_{22}O_{11}$ (558.50). Source: YUAN HUA GEN *Daphne genkwa*. Ref:
 4868.

**4653 Daphnodorin G-3''-methyl ether**

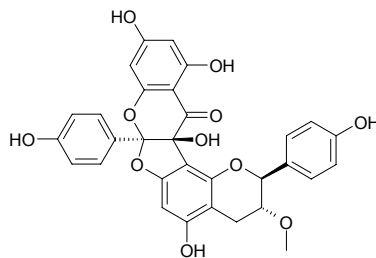
$C_{31}H_{24}O_{11}$ (572.33). Yellow amorphous powder. Source: YUAN HUA
 GEN *Daphne genkwa*. Ref: 4868.

**4654 Daphnodorin H**

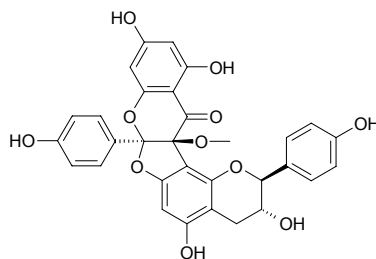
$C_{30}H_{22}O_{11}$ (558.50). Source: YUAN HUA GEN *Daphne genkwa*. Ref:
 4868.

**4655 Daphnodorin H 3-methyl ether**

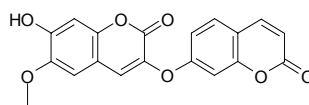
$C_{31}H_{24}O_{11}$ (572.53). Yellow amorphous powder. Source: YUAN HUA
 GEN *Daphne genkwa*. Ref: 4868.

**4656 Daphnodorin H 3''-methyl ether**

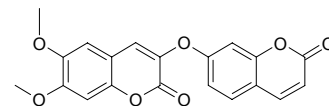
$C_{31}H_{24}O_{11}$ (572.53). Pale yellowish powder. Source: YUAN HUA GEN
Daphne genkwa. Ref: 4868.

**4657 Daphnoretin**

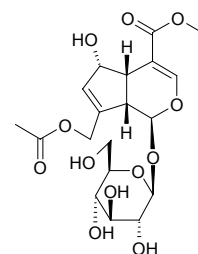
[2034-69-7] $C_{19}H_{12}O_7$ (352.30). Yellow flossy, tiny acicular crystals
 (ethanol) or yellow short, thick acicular crystals (acetone-pyridine), mp
 250–252°C, 244–247°C; yellow acicular crystals (tetrahydrofuran-
 methanol). Pharm: Antineoplastic. Source: LIAO GE WANG GEN
Wikstroemia indica, JING YA MA YE RUI XIANG *Daphne gnidium*. Ref:
 661.

**4658 Daphnoretin methyl ether**

7-Methoxydaphnoritin $C_{20}H_{14}O_7$ (366.33). Fine acicular crystals, mp
 238–240°C, soluble in methanol, ethanol, and insoluble in chloroform,
 ether, and acetone. Source: LANG DU *Stellera chamaejasme*. Ref: 488.

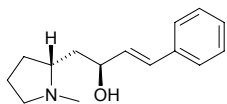
**4659 Daphylloside**

[14260-99-2] $C_{19}H_{26}O_{12}$ (446.41). Source: JI SHI TENG *Paederia*
scandens, JIAO RANG MU *Daphniphyllum macropodum*, XIE JI CU YE
 MU *Lasianthus wallichii* (leaf). Ref: 1521, 2561, 4238.

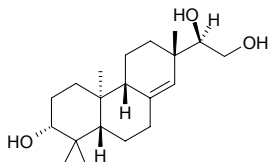


4660 Darlinine

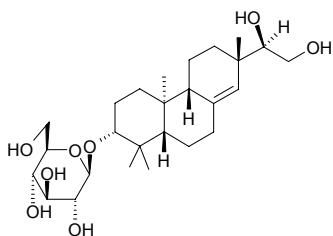
[73069-56-4] $C_{15}H_{21}NO$ (231.34). Straw-coloured crystals (EtOH), mp 59–61°C, $[\alpha]_D^{19} = +75^\circ$ (CHCl₃). Source: *Darlingia darlingiana*. Ref: 1521.

**4661 Darutigenol**

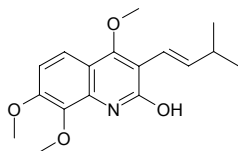
$C_{20}H_{34}O_3$ (322.49). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**4662 Darutoside**

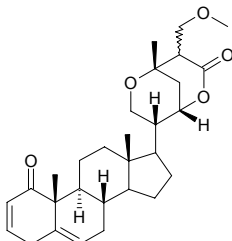
Darutin $C_{26}H_{44}O_8$ (484.64). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**4663 Dasycarpamine**

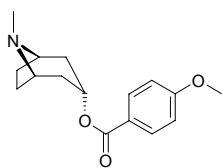
$C_{17}H_{21}NO_4$ (303.36). mp 149°C. Source: BAI XIAN PI *Dictamnus dasycarpus*. Ref: 6.

**4664 Datumetelin**

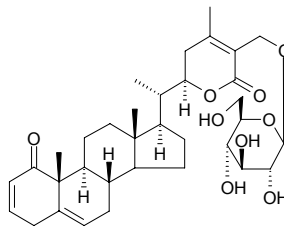
[117259-11-7] $C_{29}H_{40}O_5$ (468.64). Source: MAN TUO LUO YE *Datura metel*. Ref: 2.

**4665 Datumetine**

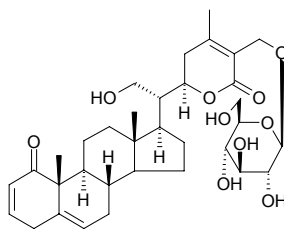
[67078-20-0] $C_{16}H_{21}NO_3$ (275.35). Source: MAN TUO LUO YE *Datura metel*. Ref: 2.

**4666 Daturametelin A**

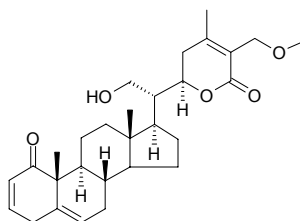
$C_{34}H_{48}O_9$ (600.76). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4667 Daturametelin B**

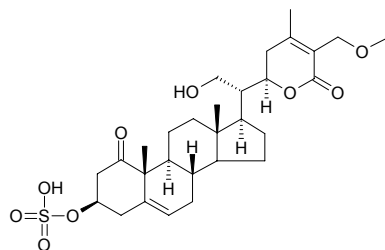
$C_{34}H_{48}O_{10}$ (616.76). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4668 Daturametelin C**

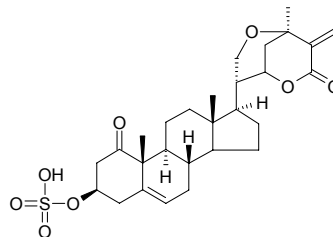
[123297-25-6] $C_{29}H_{40}O_5$ (468.64). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4669 Daturametelin E**

$C_{29}H_{42}O_9S$ (566.72). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

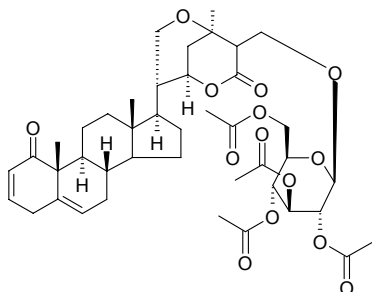
**4670 Daturametelin F**

$C_{28}H_{38}O_8S$ (534.67). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

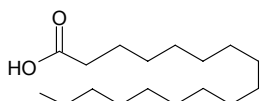


4671 Daturametelin G-AC

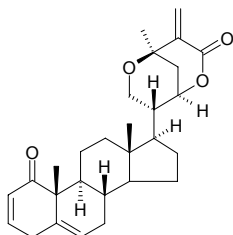
$C_{42}H_{56}O_{14}$ (784.91). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4672 Daturic acid**

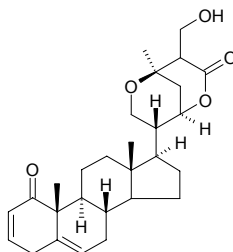
Margaric acid [506-12-7] $C_{17}H_{34}O_2$ (270.46). mp 60~61°C. Source: DANG SHEN *Codonopsis pilosula*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XI YANG SHEN *Panax quinquefolium*, SHU MI *Panicum miliaceum*. Ref: 2, 6.

**4673 Daturilin**

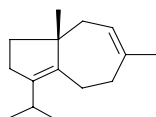
Withametelin [113430-43-6] $C_{28}H_{36}O_4$ (436.60). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660, 1521.

**4674 Daturilinol**

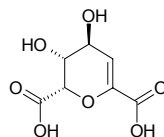
[113706-20-0] $C_{28}H_{38}O_5$ (454.61). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4675 Daucene**

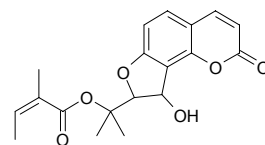
4,8-Daucadiene [16661-00-0] $C_{15}H_{24}$ (204.36). bp 96°C/4mmHg. Source: NAN HE SHI *Daucus carota*. Ref: 6, 660.

**4676 Daucic acid**

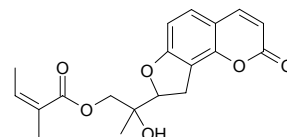
[34098-52-7] $C_7H_8O_7$ (204.14). Source: HE SHI FENG *Daucus carota*. Ref: 6.

**4677 Daucoidin A**

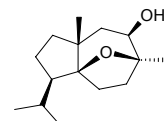
$C_{19}H_{20}O_6$ (344.37). Yellowish glasses, $[\alpha]_D^{20} = +46^\circ$ (c = 0.30, MeOH). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**4678 Daucoidin B**

$C_{19}H_{20}O_6$ (344.37). Colorless massive crystals, mp 140~141°C, $[\alpha]_D^{20} = +48.2^\circ$ (c = 0.15, $CHCl_3$). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

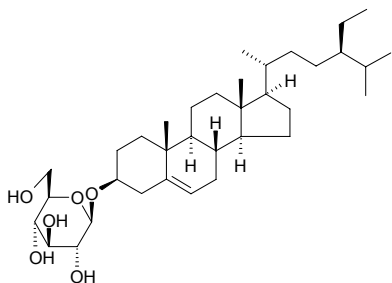
**4679 Daucol**

[887-08-1] $C_{15}H_{26}O_2$ (238.37). mp 113~115°C, bp 124~132°C/2mmHg. Source: HU LUO BO ZI *Daucus carota* var. *sativa*, NAN HE SHI *Daucus carota*, HE SHI FENG *Daucus carota*. Ref: 6, 660.

**4680 Daucosterol**

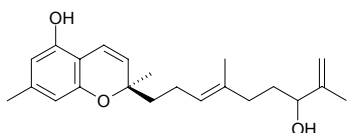
β -Daucosterol [474-58-8] $C_{35}H_{60}O_6$ (576.86). White powder, mp 295°C. Pharm: Platelet aggregation inhibitor (2~5mg/mL collagen-induced, $IC_{50} = (114 \pm 3)\mu\text{mol/L}$, control ASA, $IC_{50} = (420 \pm 3)\mu\text{mol/L}$; 1~4 $\mu\text{mol/L}$ epinephrine-induced with 0.8~1.0mg/mL collagen, $IC_{50} = (53.2 \pm 2.3)\mu\text{mol/L}$, ASA, $IC_{50} = (53.0 \pm 4.5)\mu\text{mol/L}$; 10~40 $\mu\text{mol/L}$ Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, $IC_{50} = (66.5 \pm 4.0)\mu\text{mol/L}$, ASA, $IC_{50} = (66.0 \pm 2.1)\mu\text{mol/L}$; 1~5 $\mu\text{mol/L}$ PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, $IC_{50} = (56.1 \pm 4.3)\mu\text{mol/L}$, ASA, $IC_{50} = (340 \pm 12)\mu\text{mol/L}$)^[4994]; cytotoxic (P₃₈₈, marginal activity); cytotoxic inactive (*in vitro*, LNCaP, $IC_{50} > 100\mu\text{mol/L}$)^[4607]. Source: BAI MU TONG GEN *Akebia trifoliata* var. *australis*, BAI TOU WENG *Pulsatilla chinensis*, BAN XIA *Pinellia ternata*, BEI MA DOU LING GEN *Aristolochia contorta*, BU GU ZHI *Psoralea corylifolia*, CAO CONG RONG *Boschniakia rossica*, CHI SHAO *Paeonia lactiflora* wild, CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], CHUAN XU DUAN *Dipsacus asperoides*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DAN SHEN *Salvia*

multiorrhiza, DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0027%dw)^[4767], DONG BEI CI REN SHEN *Oplopanax elatus*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], FANG XIANG JIANG *Zingiber aromaticum* (rhizome), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HAI JIN BI XIE *Dioscorea spongiosa* (rhizome: yield = 0.00012%^[4692]), HUA DONG LAN CI TOU *Echinops grijsii*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, HUO XIANG *Agastache rugosus*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0385%dw)^[4799], JIN QUE GEN *Caragana sinica*, JU YUAN *Citrus medica*, LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0004%dw)^[4607], LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), MA TI YE *Caltha palustris*, MAO LIAN HAO *Artemisia vestita*, MU TONG *Akebia quinata*, MU TONG GEN *Akebia quinata*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SAN YE MU TONG GEN *Akebia trifoliata*, SHAN FAN GEN *Symplocos caudata*, SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.0051%^[4792]), SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00058%dw)^[4665], SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*, TIAN MA *Gastrodia elata*, TUN XING GUO *Pygeum topengii*, WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), XIA KU CAO *Prunella vulgaris*, XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)^[4769], XIN JIANG LAN CI TOU *Echinops ritro*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHU QIAN MA *Urtica dioica*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, occurs in many plants. Ref: 2, 440, 447, 450, 454, 455, 471, 474, 502, 556, 580, 582, 585, 594, 596, 614, 622, 660, 1521, 2508, 2535, 4449, 4527, 4607, 4665, 4692, 4767, 4769, 4792, 4799, 4994, 5501.



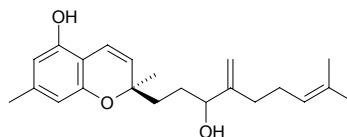
4681 Daurichromene A

2*R*-(7'-Hydroxy-4',8'-dimethyl-3'*E*,8'-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C₂₂H₃₀O₃ (342.48). Light yellow oil, [α]_D²⁶ = -30.4° (c = 0.20, CH₃OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)^[4755]. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.00091%) **Ref:** 4755.



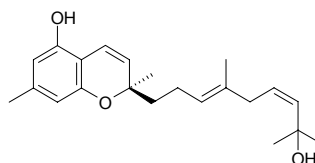
4682 Daurichromene B

2*R*-(3'-Hydroxy-8'-methyl-4'-methyliden-7'-nonaenyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C₂₂H₃₀O₃ (342.48). Light yellow oil, [α]_D²⁶ = -27.7° (c = 0.13, CH₃OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)^[4755]. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.0001%) **Ref:** 4755.



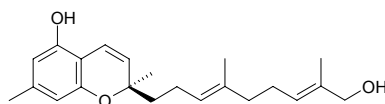
4683 Daurichromene C

2*R*-(8'-Hydroxy-4',8'-dimethyl-3'*E*,6'*Z*-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C₂₂H₃₀O₃ (342.48). Light yellow oil, [α]_D²⁶ = -32.0° (c = 0.10, CH₃OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)^[4755]. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.0002%) **Ref:** 4755.



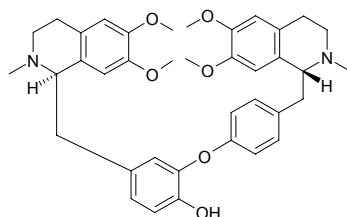
4684 Daurichromene D

2*R*-(9'-Hydroxy-4',8'-dimethyl-3'*E*,7'*E*-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C₂₂H₃₀O₃ (342.48). Light yellow oil, [α]_D²⁶ = -26.0° (c = 0.10, CH₃OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)^[4755]. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.00017%) **Ref:** 4755.



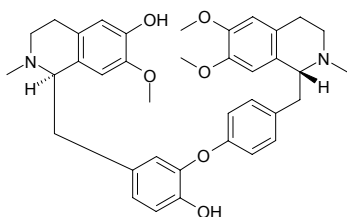
4685 Dauricine

[524-17-4] C₃₈H₄₄N₂O₆ (624.78). mp 115°C. **Pharm:** Analgesic; antiarrhythmic; anti-inflammatory; antihypertensive; platelet aggregation inhibitor (caused by ADP, adrenalin, collagen and arachidonic acid, *in vitro* and *in vivo*); inhibits small intestinal contraction (rbt, *in vitro*) and reduces alvine tension (*in vivo*); antihypercholesterolemic (reduces the level of cholesterol in serum); LD (cat, iv) = 30mg/kg; LD₅₀ (mus, ip) = 6mg/kg. **Source:** BIAN FU GE GEN *Menispermum dauricum*, MEI GUO BIAN FU GE *Menispermum canadense*. **Ref:** 4, 6, 658, 5501.

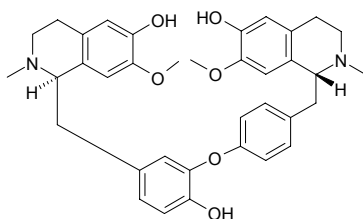


4686 Dauricinoline

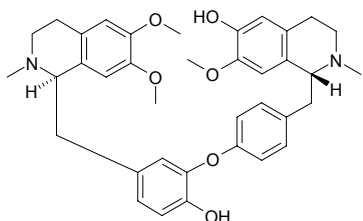
[30984-80-6] C₃₇H₄₂N₂O₆ (610.76). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 6.

**4687 Dauricoline**

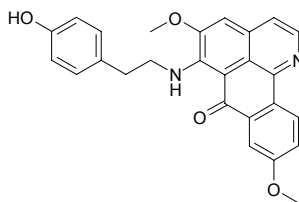
[29550-42-3] C₃₆H₄₀N₂O₆ (596.73). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 6.

**4688 Daurinoline**

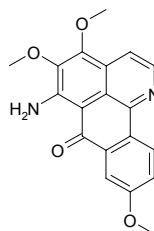
[2831-75-6] C₃₇H₄₂N₂O₆ (610.76). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 6.

**4689 Daurioxoisoporphine A**

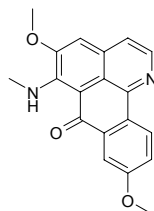
4-Demethoxytyraminoporphine C₂₆H₂₂N₂O₄ (426.48). Yellow crystals (CHCl₃), mp 234~235°C. Pharm: Cytotoxic (*in vitro*, A549, IC₅₀ = 8.8 μmol/L, HL-60, IC₅₀ > 50 μmol/L, MCF7, IC₅₀ = 3 μmol/L, P₃₈₈, IC₅₀ = 30.5 μmol/L; control VP-16: A549, IC₅₀ = 0.5 μmol/L, HL-60, IC₅₀ = 5.4 μmol/L, MCF7, IC₅₀ = 12.33 μmol/L, P₃₈₈, IC₅₀ = 0.1 μmol/L). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4690 Daurioxoisoporphine B**

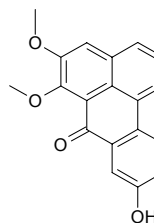
6-Amino-4,5,9-trimethoxyoxoisoporphine C₁₉H₁₆N₂O₄ (336.35). Yellow amorphous powder. Pharm: Cytotoxic (*in vitro*, A549, IC₅₀ > 50 μmol/L, HL-60, IC₅₀ > 50 μmol/L, MCF7, IC₅₀ = 6.2 μmol/L, P₃₈₈, IC₅₀ = 9.6 μmol/L; control VP-16: A549, IC₅₀ = 0.5 μmol/L, HL-60, IC₅₀ = 5.4 μmol/L, MCF7, IC₅₀ = 12.33 μmol/L, P₃₈₈, IC₅₀ = 0.1 μmol/L). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4691 Daurioxoisoporphine C**

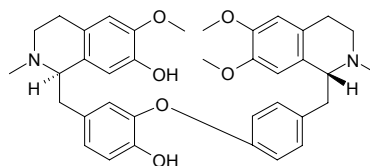
6-Methylamino-5,9-dimethoxyoxoisoporphine C₁₉H₁₆N₂O₃ (320.35). Yellow amorphous powder. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4692 Daurioxoisoporphine D**

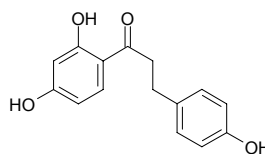
5,6-Dimethoxyl-9-hydroxyoxoisoporphine C₁₈H₁₃NO₄ (307.31). Yellow amorphous powder. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4693 Daurisoline**

[70553-76-3] C₃₇H₄₂N₂O₆ (610.76). Cream powder (cyclohexane), mp 96~102°C, [α]_D²⁰ = -129° (c = 0.65, methanol). Pharm: Muscle relaxant; LD₅₀ (mus, iv) = (1.25 ± 0.16) mg/kg. Source: BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content of 8 origins = 0.594%^[5508]) Ref: 661, 5501, 5508.

**4694 Davidigenin**

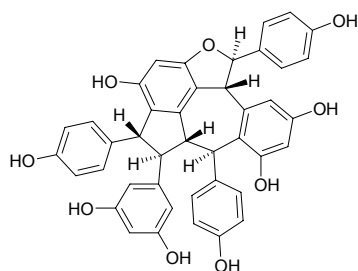
C₁₅H₁₄O₄ (258.28). Source: BO TE LAN DA JI *Euphorbia portlandica* (whole herb). Ref: 5019.



4695 Davidiol A

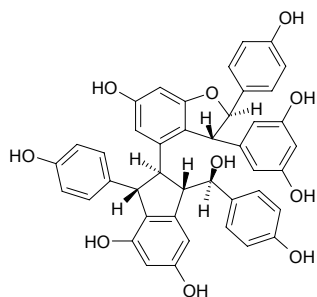
$C_{42}H_{32}O_9$ (680.72). Colorless powder, $[\alpha]_D^{29} = -272^\circ$ ($c = 0.18$, MeOH).

Source: BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4696 Davidiol B**

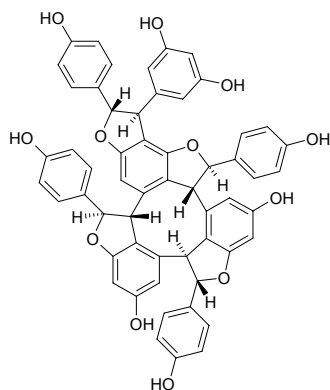
$C_{42}H_{34}O_{10}$ (698.73). Brown solid, $[\alpha]_D^{29} = -82^\circ$ ($c = 0.04$, MeOH). Source:

BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4697 Davidiol C**

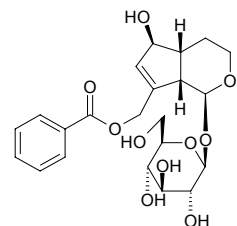
$C_{56}H_{40}O_{12}$ (904.94). Brown powder, $[\alpha]_D^{29} = -124^\circ$ ($c = 0.11$, MeOH).

Source: BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4698 Davisioside**

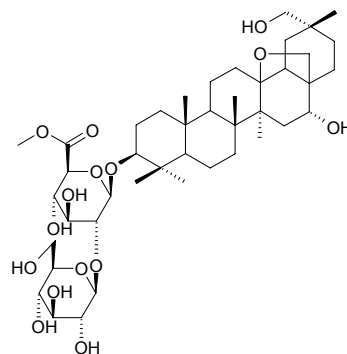
$C_{22}H_{28}O_{10}$ (452.46). White amorphous powder, $[\alpha]_D = -69^\circ$ ($c = 0.48$,

MeOH). Source: *Globularia davisiana* (aerial parts). Ref: 4194.

**4699 Davuricoside D**

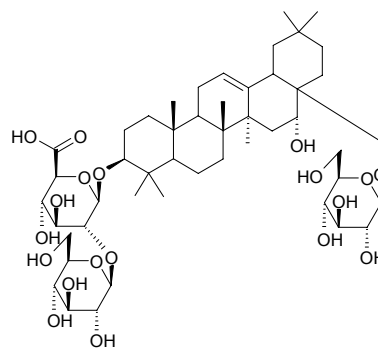
$3\beta,16\alpha,29$ -Trihydroxy-13,28-epoxy-oleanane-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-(6-methyl ester)- β -*D*-glucuronopyranoside $C_{43}H_{70}O_{15}$ (827.03).

White amorphous powder, mp 184~186°C (MeOH), $[\alpha]_D^{20} = -16.00^\circ$ ($c = 0.01$, pyridine). Source: HUANG LIAN HUA *Lysimachia davurica* (whole herb). Ref: 4834.

**4700 Davuricoside J**

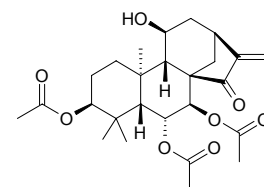
$3\beta,16\alpha,28$ -Trihydroxy-olean-12-en-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucuronopyranoside $C_{48}H_{78}O_{19}$ (959.15).

White amorphous powder, mp 229~232°C (MeOH:H₂O = 9:1), $[\alpha]_D^{20} = -20.79^\circ$ ($c = 0.04$, pyridine). Source: HUANG LIAN HUA *Lysimachia davurica* (whole herb). Ref: 4834.

**4701 Dawoensin A**

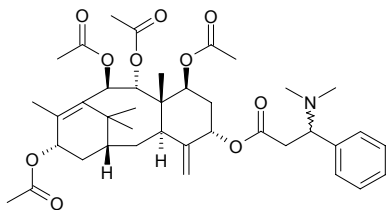
$C_{26}H_{36}O_8$ (476.57). mp 240~242°C, $[\alpha]_D^{26} = -34.3^\circ$ ($c = 1.40$, MeOH); $[\alpha]_D^{25.6} = -37.8^\circ$ ($c = 0.332$, MeOH). Pharm: Cytotoxic (*in vitro*, BGC823 hmn tumor cells, $IC_{50} = 3.54\mu\text{g/mL}$, control VCR, $IC_{50} =$

$0.066\mu\text{g/mL}$)^[4760], cytotoxic (hmn tumor K562 cells, $IC_{50} = 2.0\mu\text{g/mL}$, control *cis*-Platin $IC_{50} = 1.1\mu\text{g/mL}$)^[4955]. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00031%dw), DAO FU XIANG CHA CAI *Isodon dawoensis*, DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4067, 4299, 4760, 4955.

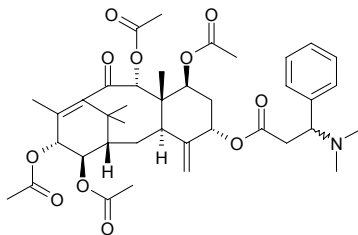


4702 2'-Deacetoxyaustrospicatine

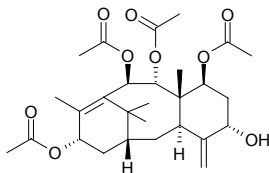
[119777-80-9] C₃₉H₅₃NO₁₁ (695.86). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4703 2'-Deacetoxyaustrotaxine**

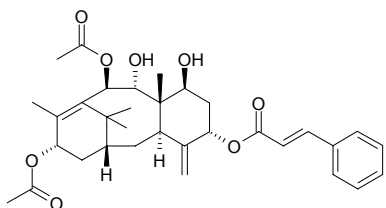
[119777-74-1] C₃₉H₅₁NO₁₁ (709.84). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**4704 2-Deacetoxy-5-decinnamoyl taxinine J**

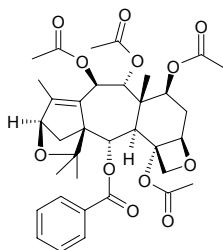
C₂₈H₄₀O₉ (520.63). White massive crystals, mp 178–180°C, [α]_D¹² = +112.93° (c = 0.058, chloroform). Source: JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 296, 662.

**4705 2-Deacetoxy-7,9-dideacetyltaxinine J**

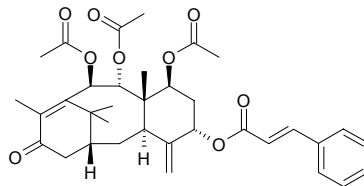
C₃₃H₄₂O₈ (566.70). Source: HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[4611]. Ref: 662, 4611.

**4706 13-Deacetoxy-13,15-epoxy-11(15→1)-abeo-13-epi-baccatin VI**

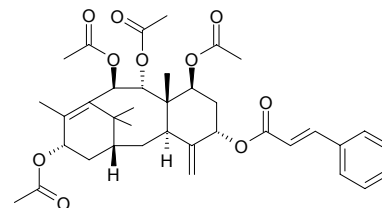
C₃₅H₄₂O₁₂ (654.72). [α]_D = +23.9° (CHCl₃), mp 150°C. Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4707 2-Deacetoxytaxinine B**

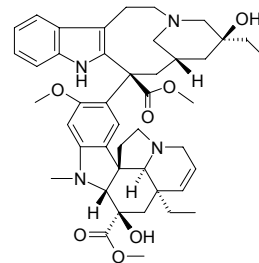
C₃₅H₄₂O₉ (606.72). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4708 2-Deacetoxytaxinine J**

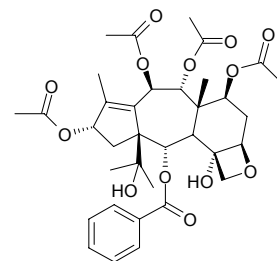
[119347-14-7] C₃₇H₄₆O₁₀ (650.77). Colorless crystals, mp 171–172°C (ethanol), [α]_D¹⁴ = +50° (c = 1.2, acetone). Pharm: Cytotoxic (P₃₈₈ *in vitro*, IC₅₀ = 15.2 μg/mL, L₁₂₁₀ *in vitro*, IC₅₀ = 4.9 μg/mL, 10 μg/mL InRt = 79.5%, KB *in vitro*, 10 μg/mL InRt = 27.6%). Source: MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079, 4611], ZI SHAN *Taxus cuspidata*. Ref: 662, 900, 3079, 4611.

**4709 Deacetoxyvinblastine**

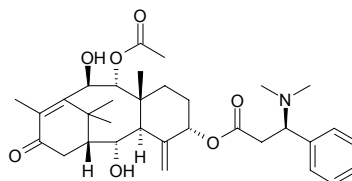
C₄₄H₅₆N₄O₇ (752.96). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.

**4710 4-Deacetyl-11(15→1)-abeo-baccatin VI**

C₃₅H₄₄O₁₃ (672.73). mp 222°C, [α]_D = -73.1° (CHCl₃). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

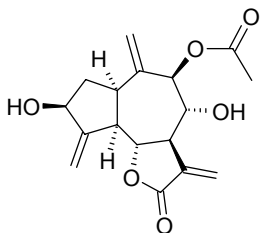
**4711 2-Deacetyl-9-acetoxytaxinine B**

C₃₃H₄₅NO₇ (567.73). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

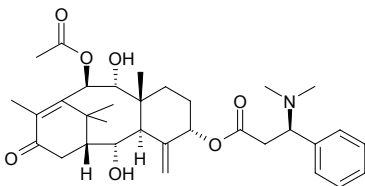


4712 3-O-Deacetyl-9-O-acetylsalograviolide A

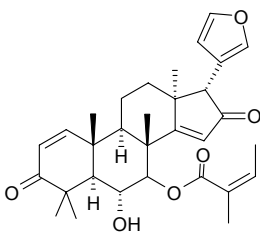
$C_{17}H_{20}O_6$ (320.35). Colorless solid, $[\alpha]_D^{22} = +29.80^\circ$ ($c = 0.0436$, MeOH). **Pharm:** Antifungal (*Aspergillus niger*, MIC = 6.25 $\mu\text{g}/\text{mL}$; *Aspergillus ochraceus*, MIC = 3.13 $\mu\text{g}/\text{mL}$; *Penicillium ochrocloron*, MIC = 25 $\mu\text{g}/\text{mL}$; *Cladosporium cladosporioides*, MIC = 3.13 $\mu\text{g}/\text{mL}$; *Fusarium tricinctum*, MIC = 12.5 $\mu\text{g}/\text{mL}$; *Phomopsis helianthi*, MIC = 1.56 $\mu\text{g}/\text{mL}$, *Trichoderma viride*, inactive). **Source:** NI GU LA SHI CHE JU *Centaurea nicolai*. **Ref:** 2361.

**4713 2-Deacetyl-10-acetyltaxine B**

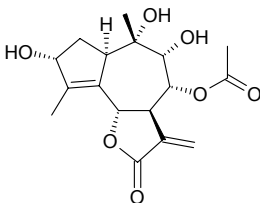
$C_{33}H_{45}NO_7$ (567.73). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**4714 7-Deacetyl-7-angeloyl-6 α -hydroxyazadiradione**

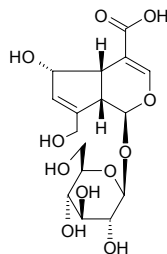
$C_{31}H_{38}O_6$ (506.64). Pale yellow solid, mp 91~94°C, $[\alpha]_D = +69^\circ$ ($c = 0.658$, CHCl_3). **Source:** *Quivisia papinae* (seed). **Ref:** 3759.

**4715 9-O-Deacetylanthemolide D**

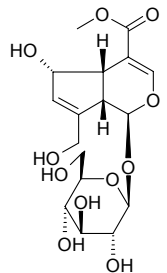
$C_{17}H_{22}O_7$ (338.36). Pale yellow oil. **Source:** *Anthemis carpatica* (aerial parts). **Ref:** 3974.

**4716 Deacetyl asperulosidic acid**

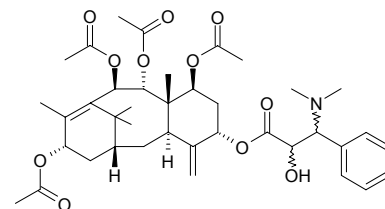
Citroside A [$14259-55-3$] $C_{16}H_{22}O_{11}$ (390.35). Colorless acicular crystals, mp 146°C, $[\alpha]_D^{34} = +11.1^\circ$ ($c = 0.36$, water). **Pharm:** TNF- α release inhibitor (cultured mouse peritoneal macrophages, $IC_{50} = 1 \mu\text{g}/\text{mL}$)^[1605]; Laxative. **Source:** CHANG WEI CU YE MU *Lasianthus acuminatissimus* (root: yield = 0.0046% dw)^[1605], HAI BA JI *Morinda citrifolia* (fruit), JIAO RANG MU *Daphniphyllum macropodum*, XIE JI CU YE MU *Lasianthus wallichii* (leaf), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 661, 1605, 4238, 4542.

**4717 Deacetyl asperulosidic acid methyl ester**

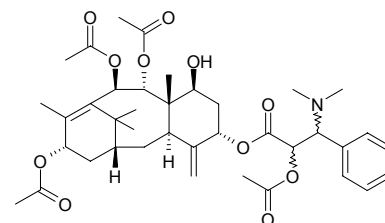
Methyldeacetylasperulosidate $C_{17}H_{24}O_{11}$ (404.37). **Pharm:** Laxative (mus, $ED_{50} = 0.53 \text{ g}/\text{kg}$). **Source:** SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 2, 6, 626, 658.

**4718 2'-Deacetylaustrospicatine**

[119777-78-5] $C_{39}H_{53}NO_{11}$ (711.86). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

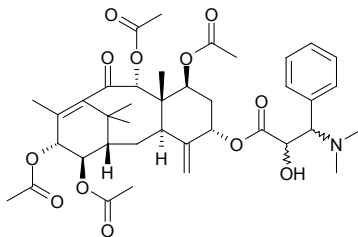
**4719 7-Deacetylaustrospicatine**

[119777-79-6] $C_{39}H_{53}NO_{11}$ (711.86). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

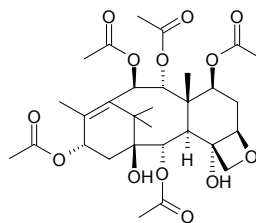


4720 2'-Deacetylaustrotaxine

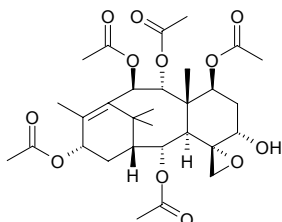
[119777-74-1] C₃₉H₅₁NO₁₂ (725.84). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**4724 4-Deacetylbaaccatin IV**

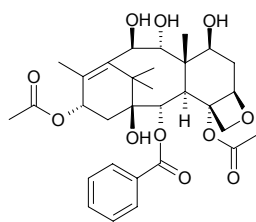
C₃₀H₄₂O₁₃ (610.66). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4721 5α-Deacetylbaaccatin I**

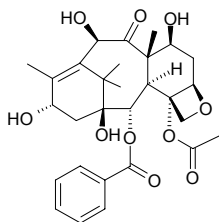
[30244-36-1] C₃₀H₄₂O₁₂ (594.66). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4725 7,9,10-Deacetylbaaccatin VI**

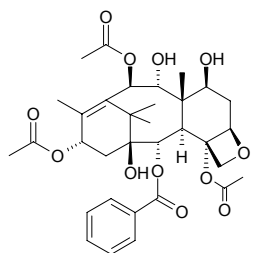
C₃₁H₄₀O₁₁ (588.66). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.

**4722 10-Deacetylbaaccatin III**

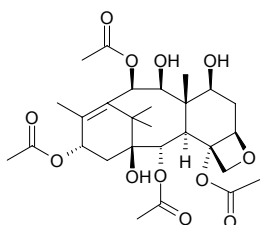
C₂₉H₃₆O₁₀ (544.62). Pharm: Cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 27.0%; NCI-H226, InRt = 5.7%; A549, InRt = 12.2%; PC3, InRt = 1.6%; control Taxol, 30μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, JIANG GUO ZI SHAN *Taxus baccata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.0082%dw^[4666]), YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316, 563, 662, 4666, 4800.

**4726 7,9-Deacetylbaaccatin VI**

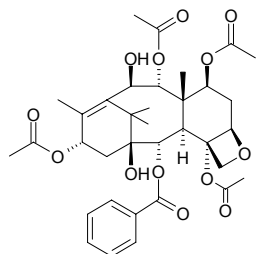
9-Dihydro-13-acetylbaaccatin III C₃₃H₄₂O₁₂ (630.70). mp 221°C. Pharm: NO production inhibitor (IC₅₀ = 78.8μmol/L, control L-NMMA, IC₅₀ = 28.5μmol/L)^[5407]. Source: JIA NA DA HONG DOU SHAN *Taxus Canadensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 662, 5407.

**4723 7,9-Deacetylbaaccatin IV**

C₂₈H₄₀O₁₂ (568.62). Source: JIANG GUO ZI SHAN *Taxus baccata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

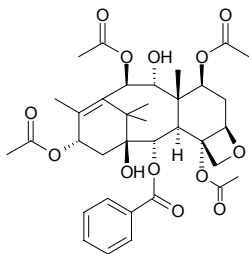
**4727 10-Deacetylbaaccatin VI**

C₃₅H₄₄O₁₃ (672.73). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

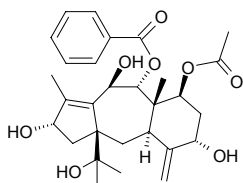


4728 9-Deacetyl-9-baccatin VI

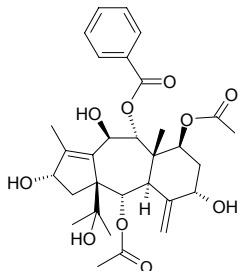
$C_{35}H_{44}O_{13}$ (672.73). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4729 9-Deacetyl-9-benzoyl-10-debenzoylbrevifoliol**

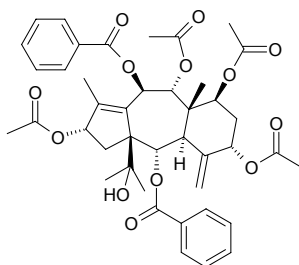
$C_{29}H_{38}O_8$ (514.62). mp 152°C, $[\alpha]_D = +18^\circ$ (CHCl₃). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4730 9-Deacetyl-9-benzoyl-10-debenzoyltaxchinin A**

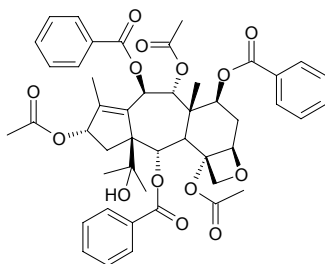
$C_{31}H_{40}O_{10}$ (572.66). $[\alpha]_D = +19.4^\circ$ (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4731 2-Deacetyl-2α-benzoyl-5,13-diacetyltaxchinin A**

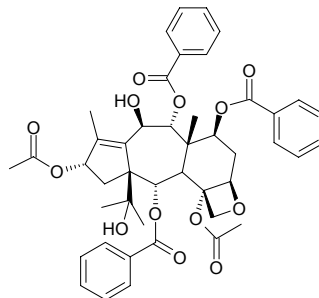
$C_{42}H_{48}O_{13}$ (760.84). mp 200–203°C, $[\alpha]_D = -21.5^\circ$. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4732 7-Deacetyl-7-benzoyltaxayuntin C**

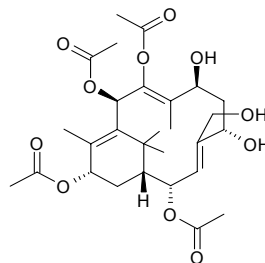
$C_{47}H_{50}O_{14}$ (838.91). mp 234–236°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4733 7-Deacetyl-7-benzoyltaxchinin I**

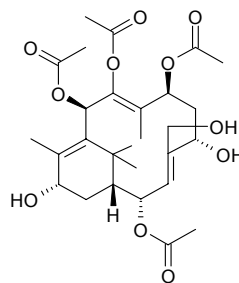
$C_{45}H_{48}O_{13}$ (796.88). mp 255°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4734 7-Deacetylcanadensene**

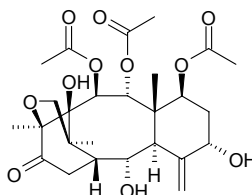
$C_{28}H_{40}O_{11}$ (552.62). White amorphous solid, mp 95–96°C; $[\alpha]_D^{25} = +5.33^\circ$ ($c = 0.003$, CHCl₃). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662, 1914.

**4735 13-Deacetylcanadensene**

$C_{28}H_{40}O_{11}$ (552.62). White amorphous solid, mp 98–99°C; $[\alpha]_D^{24} = +4.52^\circ$ ($c = 0.003$, CHCl₃). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662, 1914.

**4736 2α-Deacetyl-5α-decinnamoyltaxagifine**

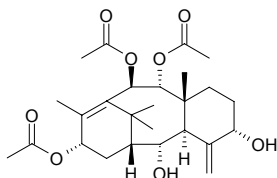
$C_{26}H_{36}O_{11}$ (524.57). Source: HONG DOU SHAN *Taxus chinensis*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800]. Ref: 662, 4800.



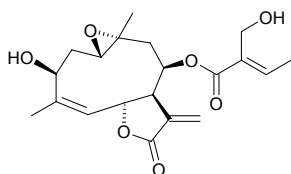
4737 2-Deacetyldecinnamoyltaxinine E

Deacetyldecinnamoyltaxinine E $C_{26}H_{38}O_8$ (478.59). $[\alpha]_D^{25} = +72^\circ$ ($CHCl_3$).

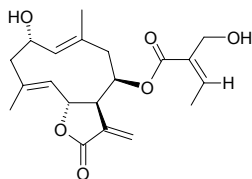
Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4738 3-Deacetylupalinin A**

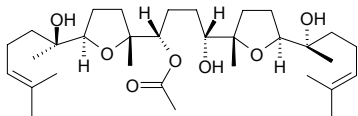
$C_{20}H_{26}O_7$ (378.43). Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0023%dw). Ref: 4762.

**4739 Deacetylupaserrin**

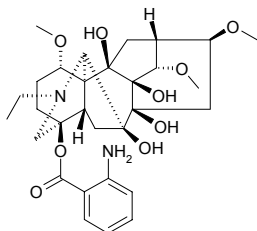
Desacetylupaserrin [38456-39-2] $C_{20}H_{26}O_6$ (362.43). $[\alpha]_D^{25} = +75.0^\circ$ ($c = 0.92$, methanol). Pharm: Antineoplastic (P_{388} , 18mg/kg); cytotoxic (KB, $ED_{50} = 0.29\mu g/mL$); larvicide (insect larva growth inhibitor). Source: AI XIANG RI KUI *Helianthus pumilus*, BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, WEI GAN JU ZE LAN *Eupatorium mikanioides*, *Helianthus* sp. Ref: 658, 661.

**4740 14-Deacetylerylene**

$C_{32}H_{56}O_7$ (552.80). Pharm: Cytotoxic (KB cells, $IC_{50} = 0.52\mu g/mL$)^[4556]. Source: *Eurycoma* sp. Ref: 4556.

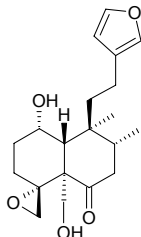
**4741 N-Deacetylfinaconitine**

[82872-81-9] $C_{30}H_{42}N_2O_9$ (574.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

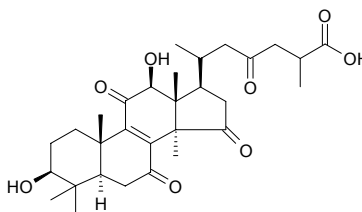
**4742 Deacetylfruticolone**

$C_{20}H_{28}O_5$ (348.44). Colorless oil, $[\alpha]_D^{25} = +5.4^\circ$ ($c = 0.22$, $CHCl_3$).

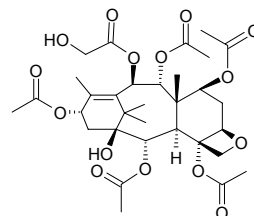
Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu g/cm^2$, $FR_{50} = 1.03\pm 0.07$). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

**4743 12-Deacetylganoderic acid H**

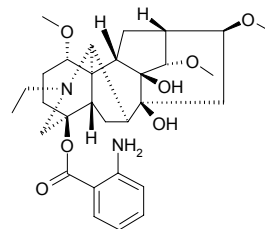
$C_{30}H_{44}O_8$ (530.66). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0021%). Ref: 4603.

**4744 10-Deacetyl-10-glycolylbaccatin IV**

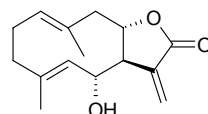
$C_{32}H_{44}O_{15}$ (668.70). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**4745 N-Deacetylappaconitine**

Puberanidine [11033-64-0] $C_{30}H_{42}N_2O_7$ (542.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

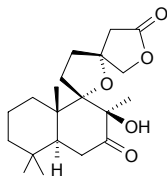
**4746 Deacetylarenobiolide**

$C_{15}H_{20}O_3$ (248.32). Pharm: Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (7.17\pm 0.16)\mu mol/L$, control PTN, $IC_{50} = (3.42\pm 0.08)\mu mol/L$; NO production inhibitor, $IC_{50} = (5.76\pm 0.28)\mu mol/L$, PTN, $IC_{50} = (2.41\pm 0.06)\mu mol/L$, AG, $IC_{50} = (34.18\pm 0.98)\mu mol/L$; TNF- α production inhibitor, $IC_{50} = (27.76\pm 1.76)\mu mol/L$, PTN, $IC_{50} = (2.68\pm 0.11)\mu mol/L$). Source: LIN DI HAO *Artemisia sylvatica* (aerial parts). Ref: 3837.

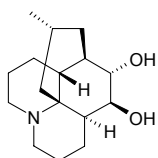


4747 8-Deacetylpepersin A

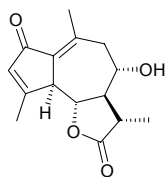
$C_{20}H_{30}O_5$ (350.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**4748 Deacetyllycoclavine**

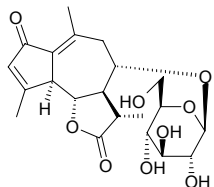
$C_{16}H_{27}NO_2$ (265.40). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**4749 Deacetylmatricarin**

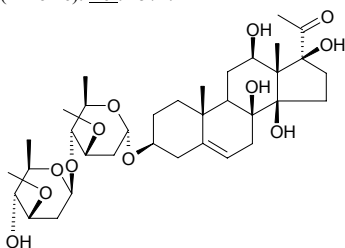
$C_{15}H_{18}O_4$ (262.31). mp 123~125°C; 143~146°C. Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, YANG SHI CAO *Achillea millefolium*, YI KUA *Artemisia myriantha* (aerial parts), YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*]. Ref: 6, 4618, 5357.

**4750 Deacetylmatricarin 8-O-β-glucopyronoside**

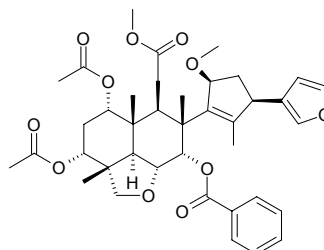
$C_{21}H_{28}O_9$ (424.45). Colorless gum, $[\alpha]_D^{26} = -52.4^\circ$ ($c = 0.82$, MeOH). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*. Ref: 5357.

**4751 Deacetylmetaplexigenin 3-O-β-D-oleandropyranosyl-(1→4)-α-D-oleandropyranoside**

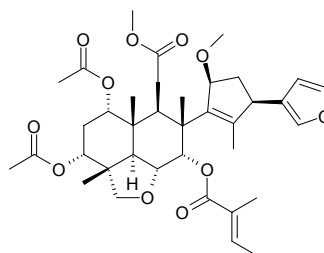
$C_{35}H_{56}O_{12}$ (668.83). White powder, mp 118~121°C, $[\alpha]_D^{20} = +4.8^\circ$ ($c = 0.21$, EtOH). Source: QING YANG SHEN *Cynanchum otophyllum* (rhizome). Ref: 4574.

**4752 15-O-Deacetyl-15-O-methylnimbolidin A**

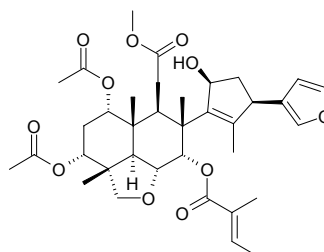
$C_{39}H_{48}O_{11}$ (692.81). Colorless amorphous solid, $[\alpha]_D^{21} = -5.8^\circ$ ($c = 1.26$, $CHCl_3$). Pharm: Cytotoxic (HeLa-S3, $IC_{50} = 37.4\mu\text{mol/L}$, control 5-FU, $IC_{50} = 5.40\mu\text{mol/L}$, Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**4753 15-O-Deacetyl-15-O-methylnimbolidin B**

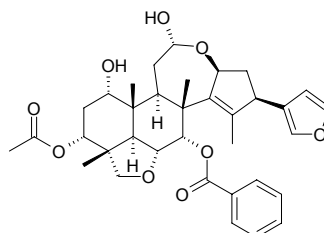
$C_{37}H_{50}O_{11}$ (670.80). Colorless amorphous solid, $[\alpha]_D^{21} = -6.7^\circ$ ($c = 1.28$, $CHCl_3$). Pharm: Cytotoxic (HeLa-S3, $IC_{50} = 28.3\mu\text{mol/L}$, control 5-FU, $IC_{50} = 5.40\mu\text{mol/L}$, Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**4754 15-O-Deacetylnimbolidin B**

$C_{36}H_{48}O_{11}$ (656.78). Colorless amorphous solid, $[\alpha]_D^{21} = -6.7^\circ$ ($c = 1.28$, $CHCl_3$). Pharm: Cytotoxic (HeLa-S3, $IC_{50} = 0.10\mu\text{mol/L}$, control 5-FU, $IC_{50} = 5.40\mu\text{mol/L}$, Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

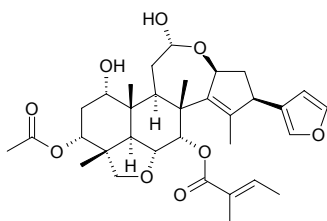
**4755 1-Deacetylnimbolidin A**

$C_{33}H_{42}O_9$ (606.72). Amorphous powder, $[\alpha]_D = -7^\circ$ ($c = 0.15$). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.

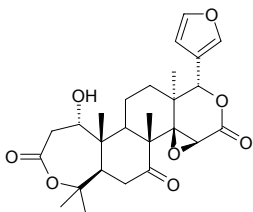


4756 1-Deacetylnimbolin B

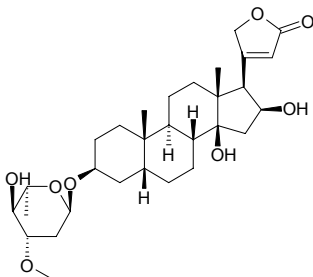
$C_{33}H_{44}O_9$ (584.71). Amorphous powder. Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.

**4757 Deacetylnomilin**

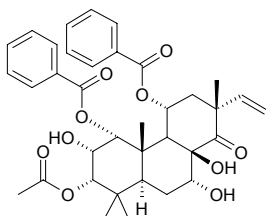
$C_{26}H_{32}O_8$ (472.54). Source: YOU HE *Citrus grandis*. Ref: 6.

**4758 Deacetyloleandrin**

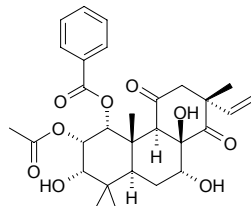
$C_{30}H_{46}O_8$ (534.70). mp 235~238°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**4759 7-O-Deacetylorthosiphol B**

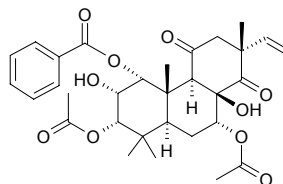
$C_{36}H_{42}O_{10}$ (634.73). Colorless amorphous solid, $[\alpha]_D^{25} = -94.4^\circ$ ($c = 0.033$, $CHCl_3$). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 102\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$, Polymixin B, $IC_{50} = 27.8\mu g/mL$, Dexamethasone $IC_{50} = 170\mu mol/L$). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

**4760 3-O-Deacetylorthosiphol I**

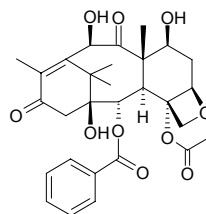
$C_{29}H_{36}O_9$ (528.60). Colorless amorphous solid, $[\alpha]_D^{25} = -47.8^\circ$ ($c = 0.04$, $CHCl_3$). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 66.3\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$, Polymixin B, $IC_{50} = 27.8\mu g/mL$, Dexamethasone $IC_{50} = 170\mu mol/L$). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.000045%dw). Ref: 4322, 4741.

**4761 2-O-Deacetylorthosiphol J**

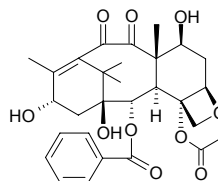
$C_{31}H_{38}O_{10}$ (570.64). Colorless amorphous solid, $[\alpha]_D^{25} = -48.6^\circ$ ($c = 0.044$, $CHCl_3$). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 24.1\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$, Polymixin B, $IC_{50} = 27.8\mu g/mL$, Dexamethasone $IC_{50} = 170\mu mol/L$). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

**4762 10-Deacetyl-13-oxobaccatin III**

$C_{29}H_{34}O_{10}$ (542.59). Pharm: Cytotoxic (*in vitro*, 30 $\mu g/mL$: A498, InRt = 29.7%; NCI-H226, InRt = 49.2%; A549, InRt = 43.9%; PC3, InRt = 65.3%; control Taxol, 30 $\mu g/mL$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

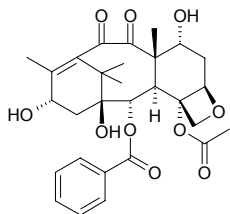
**4763 10-Deacetyl-10-oxobaccatin III**

$C_{29}H_{34}O_{10}$ (542.59). Pharm: Cytotoxic (*in vitro*, 30 $\mu g/mL$: A498, InRt = 79.1%; NCI-H226, InRt = 97.3%; A549, InRt = 54.7%; PC3, InRt = 100%; control Taxol, 30 $\mu g/mL$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

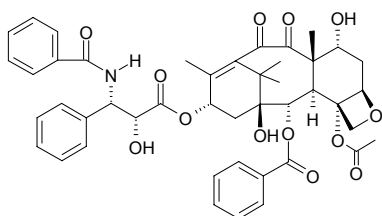


4764 10-Deacetyl-10-oxobaccatin V

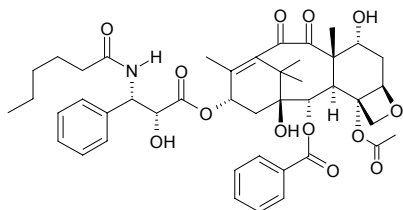
$C_{29}H_{34}O_{10}$ (542.59). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4765 10-Deacetyl-10-oxo-7-epitaxol**

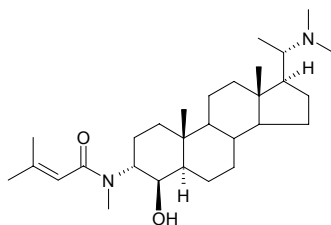
$C_{45}H_{47}NO_{13}$ (809.88). $[\alpha]_D^{25} = -60.4$ (MeOH). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.000026%dw)^[4666]. Ref: 662, 4666.

**4766 10-Deacetyl-10-oxo-7-epitaxuyunnanine A**

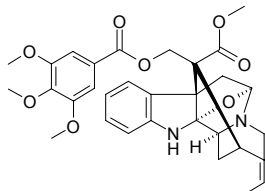
$C_{44}H_{53}NO_{13}$ (803.91). $[\alpha]_D^{25} = -70.8^\circ$ (CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4767 O-Deacetylpachysandrine B**

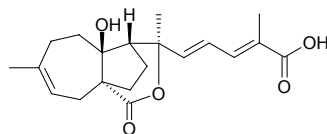
$C_{29}H_{50}N_2O_2$ (458.73). mp 184~185°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**4768 Deacetylpicaline-3,4,5-trimethoxybenzoate**

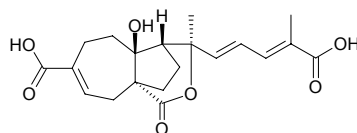
$C_{31}H_{34}N_2O_8$ (562.63). White acicular crystals, mp 222°C, $[\alpha]_D^{17} = -185^\circ$ (c = 0.052, chloroform). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*. Ref: 42.

**4769 Deacetylpsudolaric acid A**

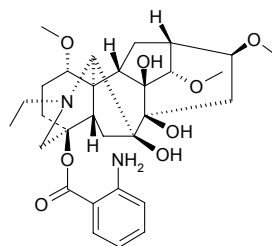
$C_{20}H_{26}O_5$ (346.43). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00003%dw). Ref: 4637.

**4770 Deacetylpsudolaric acid C₂**

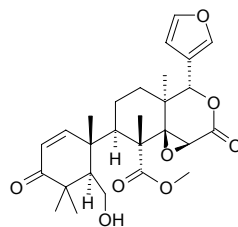
$C_{20}H_{24}O_7$ (376.41). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00025%dw). Ref: 4637.

**4771 N-Deacetylraconitine**

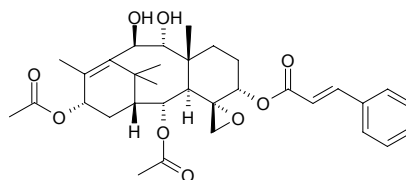
[82872-80-8] $C_{30}H_{42}N_2O_8$ (558.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

**4772 Deacetylsecmahoganin**

$C_{27}H_{34}O_8$ (486.57). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

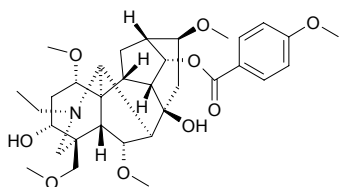
**4773 10β-Deacetylpicatinine**

$C_{33}H_{42}O_9$ (582.70). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

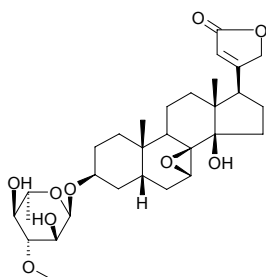


4774 8-Deacetylsungpanconitine

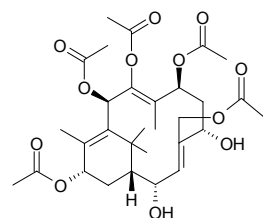
$C_{33}H_{47}NO_9$ (601.74). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0027%dw). Ref: 4678.

**4775 Deacetyltanghinin**

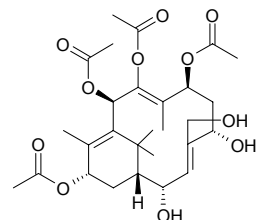
$C_{30}H_{44}O_9$ (548.68). Pharm: Cytotoxic (KB, ED_{50} = 0.05 μ g/mL, BC, ED_{50} = 1.48 μ g/mL, NCI-H187, ED_{50} = 0.1 μ g/mL)^[2594]. Source: NIU XIN QIE *ZI Cerbera manghas*. Ref: 2594.

**4776 2-Deacetyltaxachitriene A**

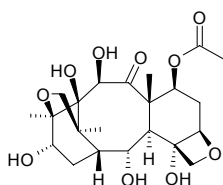
$C_{30}H_{42}O_{12}$ (594.66). mp 82~83°C, $[\alpha]_D = -51^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4777 5-Deacetyltaxachitriene B**

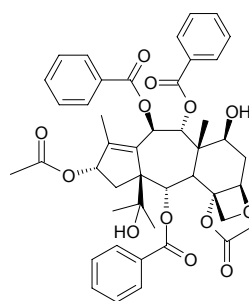
$C_{28}H_{40}O_{11}$ (552.62). mp 96~98°C, $[\alpha]_D = +67.7^\circ$ (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4778 4-Deacetyltaxagifine III**

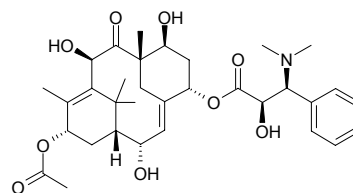
[135962-71-9] $C_{22}H_{32}O_{10}$ (456.49). mp 221~223°C, $[\alpha]_D = +38.1^\circ$ (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4779 7-Deacetyltaxayuntin D**

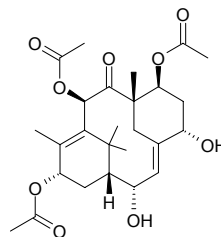
$C_{45}H_{48}O_{13}$ (796.88). mp 164~166°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4780 2-Deacetyltaxine A**

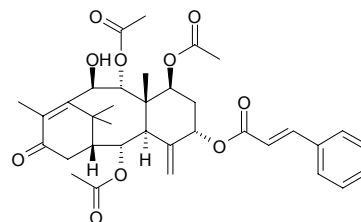
Taxine C $C_{33}H_{45}NO_9$ (599.73). mp 220~221°C, $[\alpha]_D = -106^\circ$ ($CHCl_3$), $[\alpha]_D = -73^\circ$ ($CHCl_3$). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662, 1498.

**4781 2-Deacetyltaxine B**

2-Deacetyl-7,10-diacetyl-5-deaminoacyl taxine A $C_{26}H_{36}O_9$ (492.57). mp 178~179°C, $[\alpha]_D = -218.2^\circ$ ($CHCl_3$). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 3958.

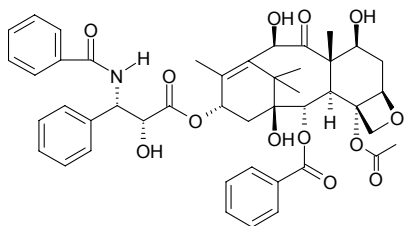
**4782 10-Deacetyl taxinine B**

$C_{35}H_{42}O_{10}$ (622.72). Colorless thin acicular crystals, mp 245~248°C. Source: ZI SHAN *Taxus cuspidata*. Ref: 291, 662.

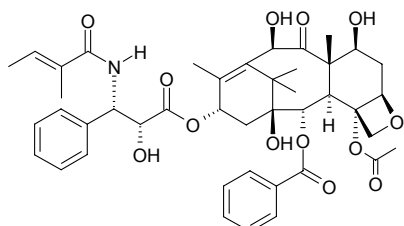


4783 10-Deacetyltaxol

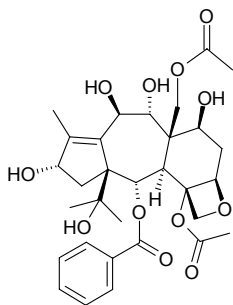
$C_{45}H_{49}NO_{13}$ (811.89). $[\alpha]_D = -3^\circ$ (pyridine). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4784 10-Deacetyltaxol B**

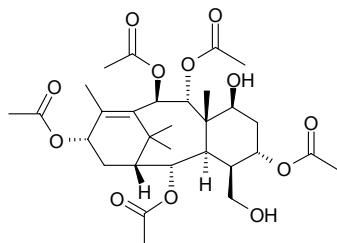
10-Deacetylcephalomannine $C_{43}H_{51}NO_{13}$ (789.88). $[\alpha]_D = -2^\circ$ (pyridine). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4785 13-O-Deacetyltaxumairol Z**

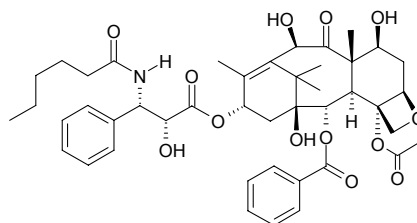
$C_{31}H_{40}O_{12}$ (604.66). Amorphous powder, $[\alpha]_D^{25} = -42^\circ$ ($c = 0.5$, $CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4250.

**4786 7-Deacetyltaxuspine L**

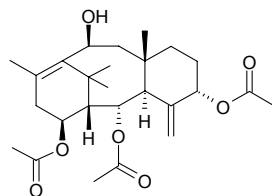
$C_{30}H_{44}O_{12}$ (596.68). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**4787 10-Deacetyltaxuyunnanine A**

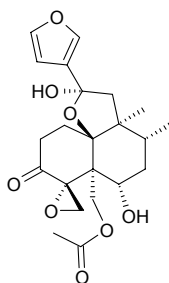
10-Deacetyltaxol C $C_{44}H_{55}NO_{13}$ (805.93). $[\alpha]_D = -50.9^\circ$ ($CHCl_3$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.000026%dw)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4666.

**4788 10-Deacetyltaxuyunnanine C**

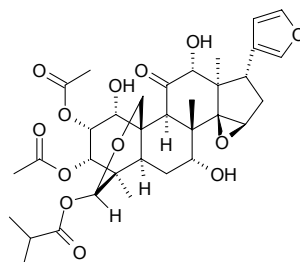
$C_{26}H_{38}O_7$ (462.59). Pharm: Cytotoxic (*in vitro*, Colon26-L5, $EC_{50} = 76.1 \mu g/mL$; HT1080, $EC_{50} = 53.8 \mu g/mL$; control 5-FU, 26-L5, $EC_{50} = 0.29 \mu g/mL$; HT1080, $EC_{50} = 0.07 \mu g/mL$)^[4661]; NO production inhibitor ($IC_{50} = 28.5 \mu mol/L$, control *L*-NMMA, $IC_{50} = 28.5 \mu mol/L$)^[5407]. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0031%dw). Ref: 4661, 5407.

**4789 6-Deacetyl-teucrolivin A**

$C_{22}H_{28}O_8$ (420.46). Amorphous solid, $[\alpha]_D^{25} = +39.60^\circ$ ($c = 1.0$, $CHCl_3$). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

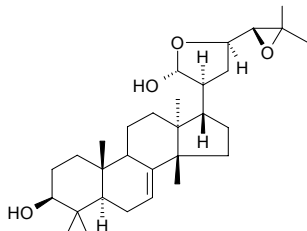
**4790 12-O-Deacetylrichilin H**

$C_{34}H_{44}O_{13}$ (660.72). Colorless amorphous solid, $[\alpha]_D^{21} = -47.5^\circ$ ($c = 1.06$, $CHCl_3$). Pharm: Cytotoxic (HeLa-S3, $IC_{50} = 0.48 \mu mol/L$, control 5-FU, $IC_{50} = 5.40 \mu mol/L$, Cisplatin, $IC_{50} = 2.46 \mu mol/L$). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

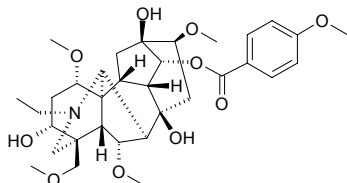


4791 Deacetylurraeanthin

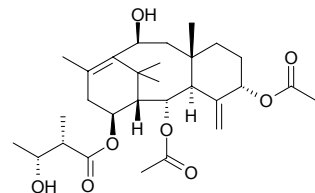
$C_{30}H_{48}O_4$ (472.71). mp 202–206°C. Source: RI BEN KU LIAN *Melia azedarach* var. *japonica*. Ref: 6, 660.

**4792 8-Deacetylynaconitine**

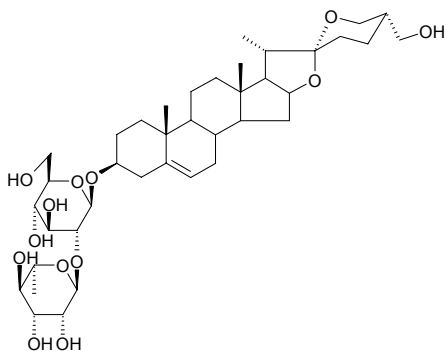
[93460-55-0] $C_{33}H_{47}NO_{10}$ (617.74). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*, GUAY YE WU TOU *Aconitum hemsleyanum*. Ref: 2191.

**4793 10-Deacetylyunnanaxane**

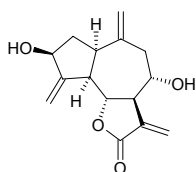
$C_{29}H_{44}O_8$ (520.67). Source: JIE ZHI HONG DOU SHAN *Taxus media*. Ref: 662.

**4794 Deacylbrownioside**

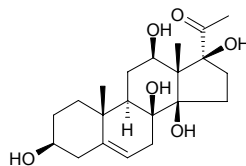
$C_{39}H_{62}O_{13}$ (738.92). Colorless needles ($CHCl_3$ -MeOH), mp 258–260°C (dec), $[\alpha]_D^{23.9} = -100^\circ$ ($c = 0.175$, pyridine). Source: XIAO HUA DUN YE SHU YU *Dioscorea parviflora* (fresh rhizome). Ref: 4858.

**4795 Deacylnaropicrin**

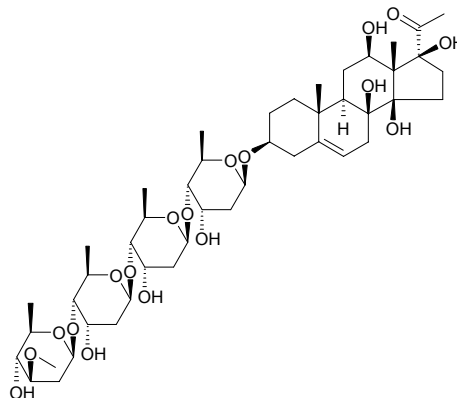
$C_{15}H_{18}O_4$ (262.31). mp 152°C, $[\alpha]_D^{20} = +120^\circ$ ($c = 0.5$, methanol). Pharm: Cytotoxic (HeLa, $ID_{50} = 5\mu g/mL$). Source: YAN DI FENG MAO JU *Saussurea salsa*. Ref: 661.

**4796 Deacetylmetaplexigenin**

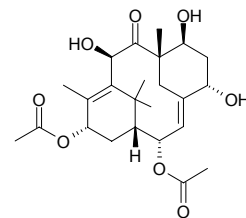
$C_{21}H_{32}O_6$ (380.48). Source: LUO MO *Metaplexis japonica*, BAI SHOU WU *Cynanchum bungei*, ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 6, 3925.

**4797 Deacetylmetaplexigenin 3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

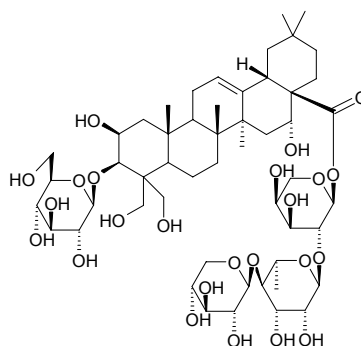
$C_{46}H_{74}O_{18}$ (915.09). Amorphous powder, $[\alpha]_D^{27} = +18.6^\circ$ ($c = 1.17$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**4798 Deaminoacyltaxine A**

$C_{24}H_{34}O_8$ (450.53). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4799 Deapio platycodin D**

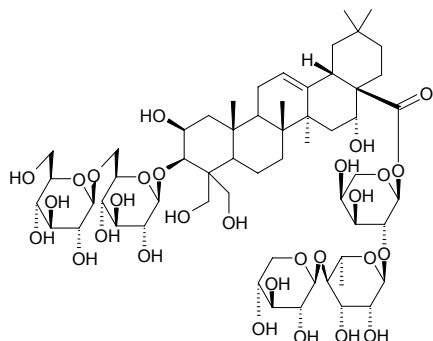
3-O-β-D-Glucopyranosyl-2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid 28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside $C_{52}H_{84}O_{24}$ (1093.23). Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.



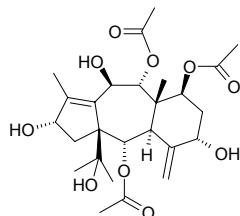
4800 Deapio platycodin D₃

3-*O*-β-*D*-Glucopyranosyl-(1→6)-β-*D*-glucopyranosyl 2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*-β-*D*-xylopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranoside C₅₈H₉₄O₂₉ (1255.38).

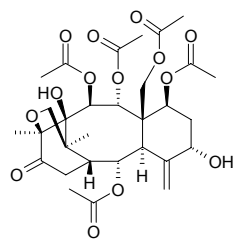
Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.

**4801 10-Debenzoyl-2α-acetoxy-brevifoliol**

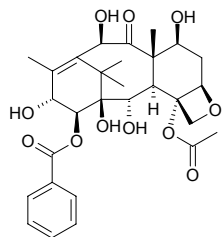
C₂₆H₃₈O₁₀ (510.59). mp 180°C, [α]_D = +32.6° (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4802 19-Debenzoyl-19-acetyltaxinine M**

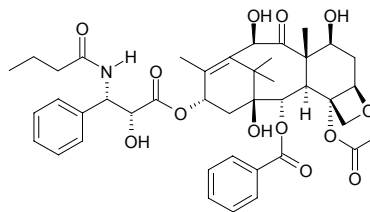
C₃₀H₄₀O₁₄ (624.64). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4803 2-Debenzoyl-14β-benzoyloxy-10-deacetylbaaccatin III**

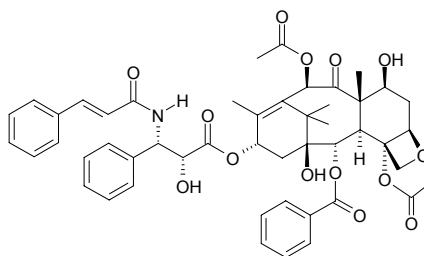
C₂₉H₃₆O₁₁ (560.60). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4804 N-Debenzoyl-N-butanoyl-10-deacetylpaclitaxel**

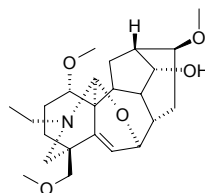
C₄₂H₅₁NO₁₃ (777.87). mp 244°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4805 N-Debenzoyl-N-cinnamoyltaxol**

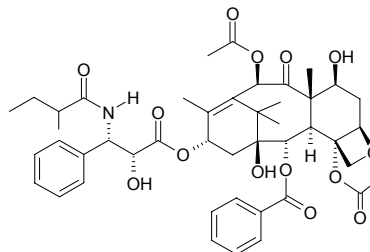
C₄₉H₅₃NO₁₄ (879.97). mp 180°C, [α]_D = -16.6° (MeOH). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4806 14-Debenzoylfranchetine**

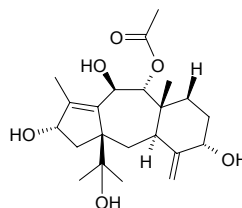
C₂₄H₃₇NO₅ (419.57). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*. Ref: 2191.

**4807 N-Debenzoyl-N-(2-methylbutyryl)taxol**

C₄₅H₅₅NO₁₄ (833.94). mp 226°C, [α]_D = -48° (MeOH). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

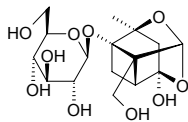
**4808 7-Debenzoyloxy-10-deacetyl-brevifoliol**

C₂₂H₃₄O₆ (394.51). mp 160–162°C, [α]_D = -24° (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

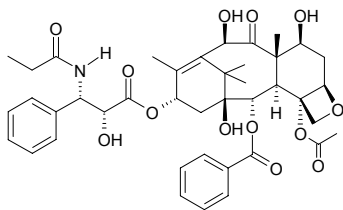


4809 8-O-Debenzoylpaconiflorin

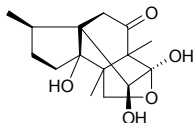
$C_{16}H_{24}O_{10}$ (376.36). Colorless amorphous solid, $[\alpha]_D^{23} = -12.8^\circ$ ($c = 0.195$, MeOH). Source: *Ducrosia anethifolia* (aerial parts). Ref: 5469.

**4810 N-Debenzoyl-N-propanoyl-10-deacetyl paclitaxel**

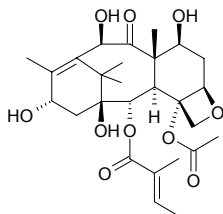
$C_{41}H_{49}NO_{13}$ (763.85). mp $245^\circ C$. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4811 11-O-Debenzoyltashironin**

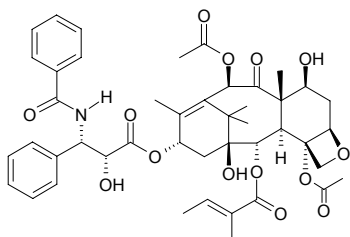
$C_{15}H_{22}O_5$ (282.34). Colorless solid, $[\alpha]_D^{22} = -65^\circ$ ($c = 0.72$, $CHCl_3$). Pharm: Neurotrophic activity (primary culture of rat cortical neurons, 0.1 - $10 \mu mol/L$). Source: *Illicium merrillianum* (pericarp; yield = 0.00019% dw). Ref: 3046.

**4812 2-Debenzoyl-2-tigloyl-10-deacetyl baccatin III**

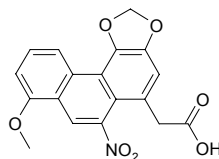
$C_{27}H_{38}O_{10}$ (522.60). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4813 2-Debenzoyl-2-tigloyltaxol**

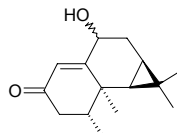
Isocephalomannine $C_{45}H_{53}NO_{14}$ (831.92). mp $232^\circ C$, $[\alpha]_D = -44^\circ$ (MeOH). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4814 Debilic acid**

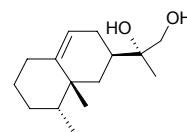
[475-85-4] $C_{18}H_{13}NO_7$ (355.31). mp $> 350^\circ C$ (dec). Source: JI SHI TENG GUO *Paederia scandens*, QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 6, 660.

**4815 Debilone**

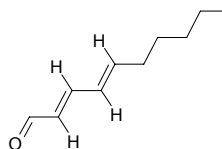
9-Hydroxy- $\Delta^{1(10)}$ -aristolone-2-one [26808-51-5] $C_{15}H_{22}O_2$ (234.34). mp $135^\circ C$. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**4816 Debneyol**

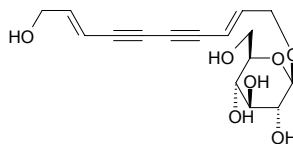
[99694-82-3] $C_{15}H_{26}O_2$ (238.37). Pharm: Antifungal (*in vitro*, *Cladosporium cucumerinum*, $ED_{50} = 50$ - $70 \mu g/mL$) Source: YAN CAO *Nicotiana tabacum*. Ref: 1087, 1114.

**4817 (E,E)-2,4-Decadienal**

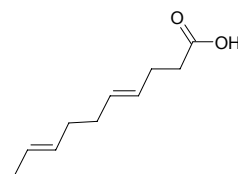
[25152-84-5] $C_{10}H_{16}O$ (152.24). Source: XING REN *Prunus armeniaca*. Ref: 2.

**4818 (2E,8E)-2,8-Decadiene-4,6-diyne-1,10-diol 1-O-β-D-glucopyranoside**

$C_{16}H_{20}O_7$ (324.33). Amorphous powder, $[\alpha]_D^{21} = -77^\circ$ ($c = 0.2$, MeOH). Source: CANG ZHU *Atractylodes lancea*. Ref: 4348.

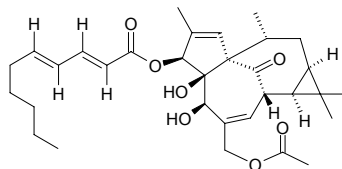
**4819 Decadienoic acid**

[13159-49-4] $C_{10}H_{16}O_2$ (168.24). Source: PI JIU HUA *Humulus lupulus*. Ref: 1521.

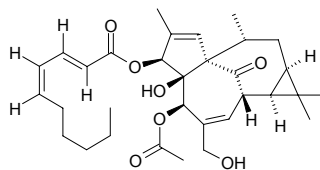


4820 3-O-(2'E,4'E-Decadienoyl)-20-O-acetyl ingenol

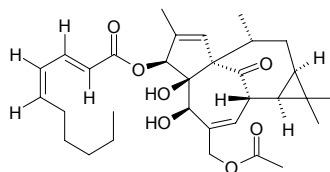
Ingenol-3-(2,4-decadienoate)-20-acetate C₃₂H₄₄O₇ (540.70). Colorless oil, [α]_D²³ = +84.1° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%)^[4645]. **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00006%dw)^[4645]. **Ref:** 660, 4645.

**4821 3-O-(2'E,4'Z-Decadienoyl)-5-O-acetyl ingenol**

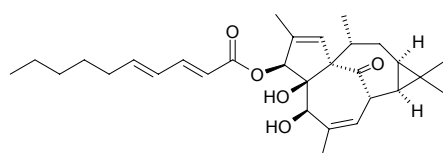
C₃₂H₄₄O₇ (540.7). Colorless oil, [α]_D²³ = +61.73° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00005%dw). **Ref:** 4645.

**4822 3-O-(2'E,4'Z-Decadienoyl)-20-O-acetyl ingenol**

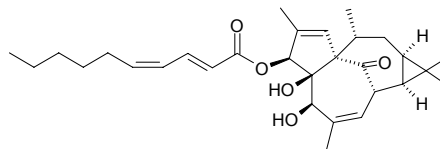
C₃₂H₄₄O₇ (540.70). Colorless oil. **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00007%dw). **Ref:** 4645.

**4823 3-O-(2E,4E-Decadienoyl)-20-deoxyingenol**

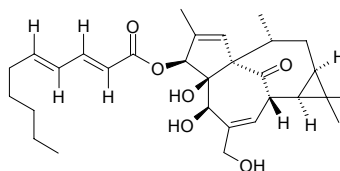
C₃₀H₄₂O₅ (482.67). Colorless gum, [α]_D²³ = +57.5° (*c* = 0.16, MeOH). **Pharm:** Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at 0.5µg/mL compound results in > 75% cell cleavage arrest). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

**4824 3-O-(2E,4Z-Decadienoyl)-20-deoxyingenol**

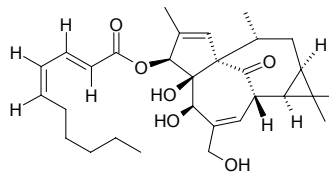
C₃₀H₄₂O₅ (482.67). Colorless gum, [α]_D²³ = +42.1° (*c* = 0.28, MeOH). **Pharm:** Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at 0.5µg/mL compound results in > 75% cell cleavage arrest). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

**4825 3-O-(2'E,4'E-Decadienoyl)ingenol**

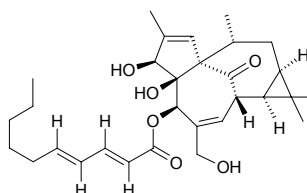
C₃₀H₄₂O₆ (498.67). Colorless oil, [α]_D²³ = +89.09° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00009%dw). **Ref:** 4645.

**4826 3-O-(2'E,4'Z-Decadienoyl)ingenol**

C₃₀H₄₂O₆ (498.67). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00011%dw). **Ref:** 4645.

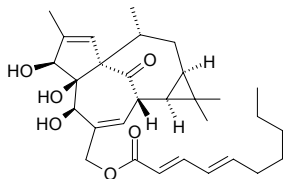
**4827 5-O-(2'E,4'E-Decadienoyl)ingenol**

C₃₀H₄₂O₆ (498.67). Colorless oil, [α]_D²³ = -7.69° (*c* = 0.13, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5µg/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.0015%dw). **Ref:** 4645.

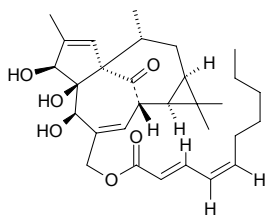


4828 20-O-(2'E,4'E-Decadienoyl)ingenol

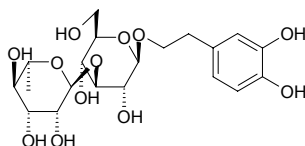
$C_{30}H_{42}O_6$ (498.67). Colorless oil, $[\alpha]_D^{23} = +3.15^\circ$ ($c = 0.19$, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5 $\mu\text{g}/\text{mL}$, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00008%dw). **Ref:** 4645.

**4829 20-O-(2'E,4'Z-Decadienoyl)ingenol**

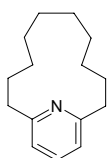
$C_{30}H_{42}O_6$ (498.67). Colorless oil, $[\alpha]_D^{23} = +2.50^\circ$ ($c = 0.16$, MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5 $\mu\text{g}/\text{mL}$, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00009%dw). **Ref:** 4645.

**4830 Decaffeoylverbascoide**

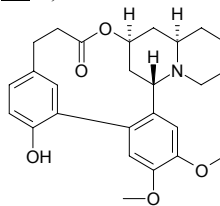
Decaffeoylverbascoide $C_{20}H_{30}O_{12}$ (462.45). **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 6.6%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%)^[4508]. **Source:** ROU CONG RONG *Cistanche deserticola*, TIAN SHE CAO *Lippia dulcis* (aerial parts). **Ref:** 2448, 4508.

**4831 2,6-Decamethylene pyridine**

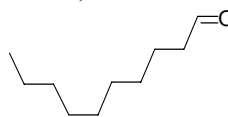
$C_{15}H_{23}N$ (217.36). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**4832 Decamine**

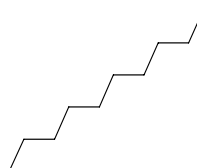
Weedone [17349-05-2] $C_{26}H_{31}NO_5$ (437.54). mp 223~224°C. **Pharm:** Antibacterial (*Bacillus diphtheriae in vitro*, 4 $\mu\text{g}/\text{mL}$); antifungal (*Candida albicans in vitro*, 8 $\mu\text{g}/\text{mL}$). **Source:** ZI WEI HUA *Lagerstroemia indica*, DI KE DONG *Decodon verticillatus*, ZI WEI YE *Lagerstroemia indica*. **Ref:** 6, 658.

**4833 Decanal**

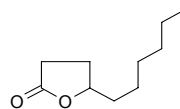
Capric aldehyde [112-31-2] $C_{10}H_{20}O$ (156.27). **Source:** DONG LING CAO *Rabdosia rubescens*, GAN JIANG *Zingiber officinale*, JU PI *Citrus reticulata*, YU XING CAO *Houttuynia cordata*. **Ref:** 2.

**4834 Decane**

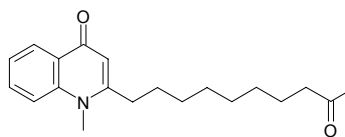
n-Decane [124-18-5] $C_{10}H_{22}$ (142.29). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**4835 γ -Decanolactone**

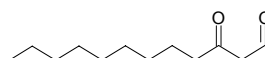
[706-14-9] $C_{12}H_{18}O_2$ (170.25). **Source:** XING REN *Prunus armeniaca*, NAN HE SHI *Daucus carota*. **Ref:** 2, 660.

**4836 2-(Decan-9-one)-N-methyl-4-quinolone**

$C_{20}H_{27}NO_2$ (313.44). **Source:** MENG DA NA YUN XIANG *Ruta Montana* (whole herb). **Ref:** 3910.

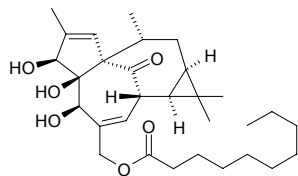
**4837 Decanoylactaldehyde**

Houttuynin $C_{12}H_{22}O_2$ (198.31). **Pharm:** Antibacterial (*in vitro*, gram-positive bacteria, gram-negative bacteria; *in vitro* and *in vivo*, houttuynin isoniazone inhibits *Mycobacterium tuberculosis* strongly, MIC = 0.78~3.10mg/mL); immunoenhancer (chronic bronchitis patient, orl 90mg, 3 times daily, after seven days the level of properdin in blood has ascending tendency). **Source:** YU XING CAO *Houttuynia cordata* (aerial parts: content = 0.05%^[5501]). **Ref:** 2, 4, 1974, 2056, 5501.

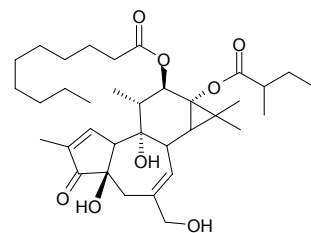


4838 20-O-(Decanoyl)ingenol

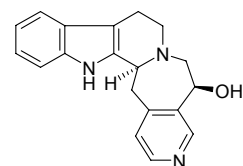
$C_{30}H_{46}O_6$ (502.7). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5 $\mu\text{g/mL}$, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00007%dw). **Ref:** 4645.

**4839 12-O-Decanoylphorbol-13-(2-methylbutyrate)**

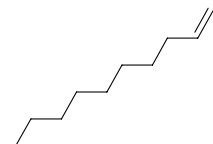
$C_{35}H_{54}O_8$ (602.82). Oil, $[\alpha]_D^{25} = +56^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $\text{IC}_{100} = 7.81 \mu\text{g/mL}$, $\text{CC}_0 = 31.3 \mu\text{g/mL}$, control DS8000, $\text{IC}_{100} = 3.9 \mu\text{g/mL}$, $\text{CC}_0 > 1000 \mu\text{g/mL}$); PKC activator inactive (10ng/mL, activity rate = 0%)^[3921]. **Source:** BA DOU *Croton tiglium*. **Ref:** 3921.

**4840 Decarbomethoxy naucl echine**

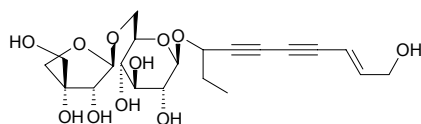
$C_{19}H_{19}N_3O$ (305.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**4841 1-Decene**

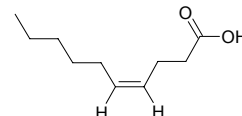
$C_{10}H_{20}$ (140.27). **Source:** KUAN DONG HUA *Tussilago farfara*. **Ref:** 660.

**4842 (2E)-2-Decene-4,6-diyne-1,8-diol 8-O-β-apiofuranosyl-(1→6)-β-D-glucopyranoside**

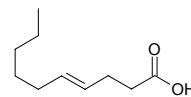
$C_{21}H_{30}O_{11}$ (458.47). Amorphous powder, $[\alpha]_D^{23} = -144^\circ$ ($c = 0.1$, MeOH). **Source:** CANG ZHU *Atractylodes lancea* (rhizome). **Ref:** 4384.

**4843 cis-4-Decenoic acid**

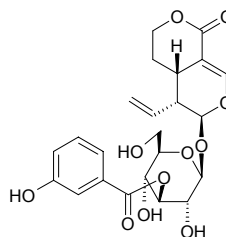
Obtusilic acid [505-90-8] $C_{10}H_{18}O_2$ (170.25). bp 148~150°C/13mmHg. **Source:** CHENG QIE ZI *Litsea cubeba*, SAN ZUAN FENG *Lindera obtusiloba*, ZHEN CAI *Litsea pungens*. **Ref:** 6, 1521, 2825, 2956.

**4844 trans-4-Decenoic acid**

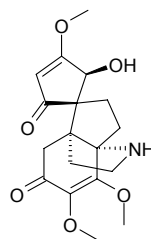
[26303-90-2] $C_{10}H_{18}O_2$ (170.25). bp 148~150°C/13mmHg. **Source:** SAN ZUAN FENG *Lindera obtusiloba*. **Ref:** 6.

**4845 Decentapicrin A**

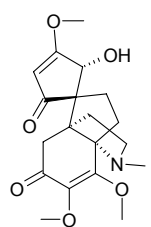
$C_{23}H_{26}O_{11}$ (478.46). **Source:** GUANG LIANG JIA LONG DAN *Gentiana nitida* (whole herb). **Ref:** 3542.

**4846 Dechloroacutumidine**

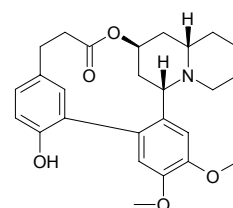
$C_{18}H_{23}NO_6$ (349.39). $[\alpha]_D^{25} = -68^\circ$ ($c = 0.2$, MeOH) **Source:** BIAN FU GE *Menispermum dauricum*. **Ref:** 1946.

**4847 Dechlorodauricumine**

$C_{19}H_{25}NO_6$ (363.41). Amorphous powder, $[\alpha]_D^{25} = +20.7^\circ$ ($c = 0.10$, MeOH). **Source:** BIAN FU GE GEN *Menispermum dauricum*. **Ref:** 5326.

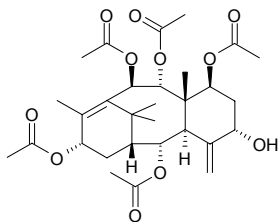
**4848 Decinine**

[10183-64-9] $C_{26}H_{31}NO_5$ (437.54). mp 222~224°C. **Source:** ZI WEI YE *Lagerstroemia indica*. **Ref:** 6.

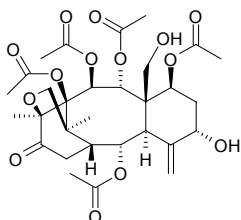


4849 Decinnamol taxinine J

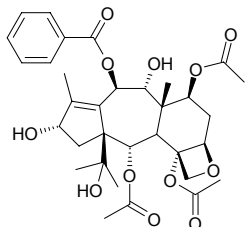
5 α -Hydroxy-2 α ,7 β ,9 α ,10 β ,13 α -Pentaacetoxy-4(20),11-taxadiene
 $C_{30}H_{42}O_{11}$ (578.66). Colorless prisms. Source: AO DA LI YA HONG
 DOU SHAN *Austrotaxus spicata*, DUAN YE HONG DOU SHAN *Taxus*
brevifolia, HONG DOU SHAN *Taxus chinensis*. Ref: 662, 2488.

**4850 5-Decinnamoyl-11-acetyl-19-hydroxyl taxagifine**

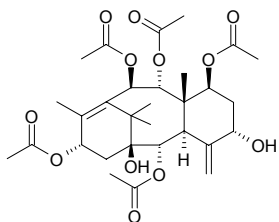
$C_{30}H_{40}O_{14}$ (624.64). White massive crystals, mp 209~210°C, $[\alpha]_D^{14} =$
 -12.1° (chloroform). Source: YUN NAN HONG DOU SHAN *Taxus*
yunnanensis. Ref: 296, 662.

**4851 13-Decinnamoyl-9-deacetyl taxichin B**

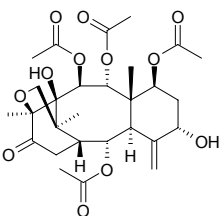
$C_{33}H_{42}O_{12}$ (630.70). Source: XI MA LA YA HONG DOU SHAN *Taxus*
wallichiana. Ref: 662.

**4852 Decinnamoyl-1-hydroxy-taxinine J**

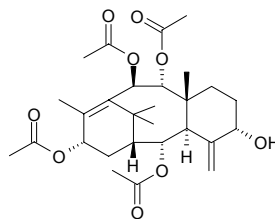
$C_{30}H_{42}O_{12}$ (594.66). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref:
 662.

**4853 5 α -Decinnamoyltaxagifine**

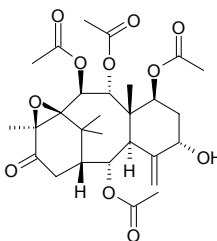
$C_{28}H_{38}O_{12}$ (566.61). Source: HONG DOU SHAN *Taxus chinensis*. Ref:
 662.

**4854 Decinnamoyltaxinine E**

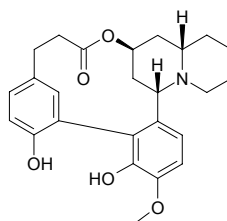
$C_{28}H_{40}O_9$ (520.63). Source: HONG DOU SHAN *Taxus chinensis*. Ref:
 662.

**4855 Decinnamoyltaxinine B 11,12-oxide**

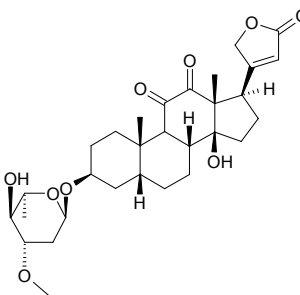
$C_{28}H_{38}O_{11}$ (550.61). Source: YUN NAN HONG DOU SHAN *Taxus*
yunnanensis. Ref: 662.

**4856 Decodine**

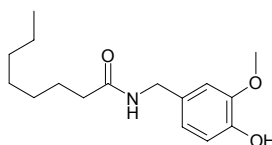
[26996-01-1] $C_{25}H_{29}NO_5$ (423.51). mp 193~197°C. Source: ZI WEI YE
Lagerstroemia indica. Ref: 6.

**4857 Decoside**

$C_{30}H_{42}O_9$ (546.66). Pharm: Toxin (vertebrate). Source: YANG JIAO AO
Strophanthus divaricatus. Ref: 658.

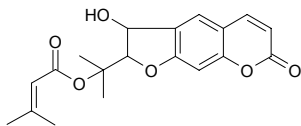
**4858 Decoyl vanillylamide**

$C_{16}H_{25}NO_3$ (279.38). Source: LA JIAO *Capsicum frutescens*. Ref: 6.

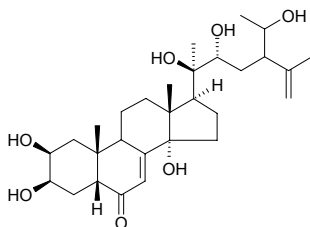


4859 Decumbensol

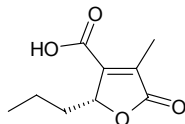
C₁₉H₂₀O₆ (344.37). Colorless massive crystals, mp 183~183.5°C, [α]_D²⁰ = +202° (c = 0.53, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**4860 Decumbesterone A**

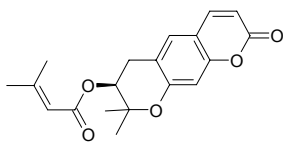
C₂₉H₄₆O₇ (506.69). Pharm: Antineoplastic (inhibits EBV-EA induction strongly). Source: BAI MAO XIA KU CAO *Ajuga decumbens*. Ref: 693.

**4861 Decumbic acid**

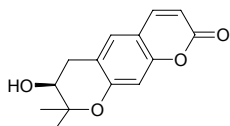
C₉H₁₂O₄ (184.19). mp 125~127°C, [α]_D²⁵ = +44.3° (c = 0.47, CHCl₃). Source: *Lasiodiplodia theobromae* (fruit). Ref: 3867.

**4862 Decursin**

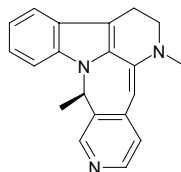
[5928-25-6] C₁₉H₂₀O₅ (328.37). mp 110~111°C. Pharm: AChE inhibitor (*in vitro*, IC₅₀ = 390 μmol/L)^[3058]; reduces muscular twitching (cultured myocardial cells line). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058]. Ref: 6, 658, 3058.

**4863 Decursinol**

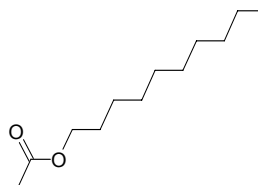
[23458-02-8] C₁₄H₁₄O₄ (246.27). mp 176~177°C. Pharm: AChE inhibitor (*in vitro*, IC₅₀ = 28 μmol/L)^[3058]; reduces muscular twitching (cultured myocardial cells line). Source: DA TIAO WEN XIE HAO *Seseli grandivittatum*, MU⁽⁴⁾ JU *Aegle marmelos*, QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058]. Ref: 6, 658, 3058.

**4864 Decussine**

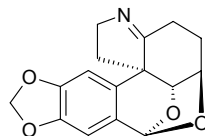
[75375-52-9] C₂₀H₁₉N₃ (301.39). Yellow rhomboid crystals (methanol), mp 203~205°C. Pharm: Neuromuscular blocker. Source: DUI SHENG MA QIAN *Strychnos decussata*. Ref: 661.

**4865 n-Decyl acetate**

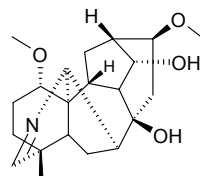
[112-17-4] C₁₂H₂₄O₂ (200.32). mp -15.05°C, bp 244°C. Source: HEI MA YI *Formica fusca*. Ref: 6.

**4866 4a,N-Dedihydronoraugustamine**

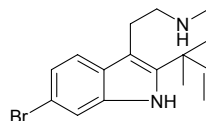
C₁₆H₁₅NO₄ (285.30). mp 127~130°C, [α]_D²⁰ = -242.6° (c = 0.27, MeOH). Pharm: Antiprotozoal inactive (*Plasmodium falciparum*, *Leishmania donovani*, *Trypanosoma brucei*, *Trypanosoma cruzi*). Source: KEN NI YA WEN SHU LAN *Crinum kirkii* (bulb). Ref: 3892.

**4867 N-Deethyl-N-19-didehydrosachaconitine**

C₂₁H₃₁NO₄ (361.49). Amorphous solid, [α]_D²⁵ = +181.8° (c = 0.11, CHCl₃). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

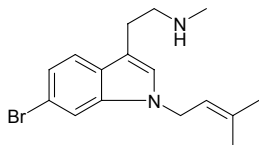
**4868 Deformylflustrabromine**

C₁₆H₂₁BrN₂ (321.26). Pharm: Affinity to nAChR ($\alpha 4\beta 2^*$ subtype, K_i = (3400±500)nmol/L, control (-)-Nicotine, K_i = (0.838±0.132)nmol/L; $\alpha 7^*$ subtype, K_i > 50000nmol/L, (-)-Nicotine, K_i = (127±5)nmol/L). Source: BEI HAI XIAN TAI CHONG *Flustra foliacea*. Ref: 5029.



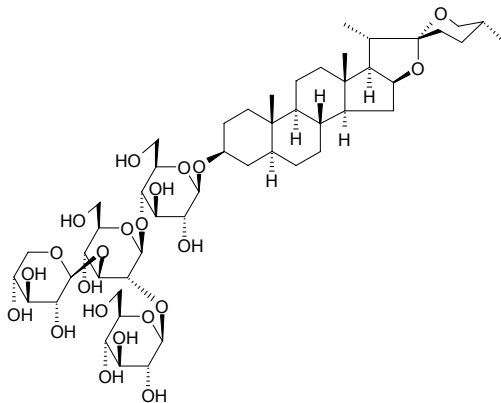
4869 Deformylflustrabromine B

$C_{16}H_{21}BrN_2$ (321.26). **Pharm:** Affinity to nAChR ($\alpha 4\beta 2^*$ subtype, $K_i > 50000$ nmol/L, control (-)-Nicotine, $K_i = (0.838 \pm 0.132)$ nmol/L; $\alpha 7^*$ subtype, $K_i = (17000 \pm 2200)$ nmol/L, (-)-Nicotine, $K_i = (127 \pm 5)$ nmol/L). **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea*. **Ref:** 5029.

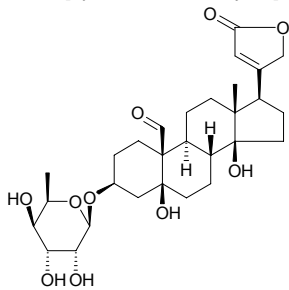
**4870 Degalactotigonin**

[39941-51-0] $C_{50}H_{82}O_{22}$ (1035.20). **Pharm:** Antineoplastic (inhibits ^{32}P combines with phospholipid in HeLa cells, $50 \mu\text{g/mL}$, InRt = 57.8%).

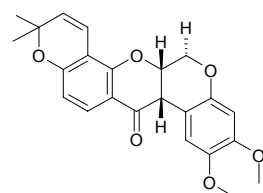
Source: ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2, 1636.

**4871 Deglucocheirotxin**

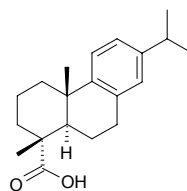
$C_{29}H_{42}O_{10}$ (550.65). mp 188–191°C. **Source:** LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. **Ref:** 6.

**4872 Deguelin**

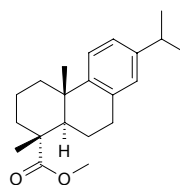
Degueline [522-17-8] $C_{23}H_{22}O_6$ (394.43). Yellow crystals, mp 180–182°C (methanol); 171°C, $[\alpha]_D^{20} = -107^\circ$ ($c = 0.2$, benzene). **Pharm:** Ornithine decarboxylase inhibitor (induced by ester phorbol, $IC_{50} = 0.0003 \mu\text{g/mL}$); larvacide (larva of mosquito); nematocide (MLD = $1 \mu\text{mol/L}$); anti-tumor promoter (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100(mol ratio)/32 pmol TPA), EBV-EA positive cells = 72.3% viability, positive control β -Carotene, EBV-EA positive cells = 82.7% viability)^[4982]. **Source:** MU LAN⁽²⁾ *Indigofera tinctoria*, HUI YE GEN *Tephrosia purpurea*, MAO YU TENG *Derris elliptica*, YU TENG *Derris trifoliata* (stem), *Tephrosia* sp., *Lonchocarpus* sp. **Ref:** 6, 900, 4982.

**4873 Dehydroabietic acid**

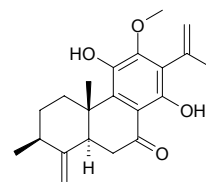
8,11,13-Abietatrien-18-oic acid [1740-19-8] $C_{20}H_{28}O_2$ (300.44). Colorless acicular crystals, mp 174°C, $[\alpha]_D^{20} = +66^\circ$ ($c = 0.60$, diethyl ether). **Pharm:** Activates nerve (stimulates release of neurotransmitter inhibitor (γ -aminobutyric acid) and neurotransmitter stimulant); antifungal (*in vitro*, *Pyricularia oryzae*, InRt = 100%); antiulcerative; used in treatment of hypertension and tachycardia caused by smoking; vasodilator. **Source:** XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 900.

**4874 Dehydroabietic acid methyl ester**

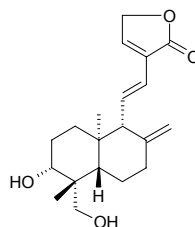
$C_{21}H_{30}O_2$ (314.47). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.0013%dw). **Ref:** 4616.

**4875 Dehydroagastol**

19(4→3)-Abeo-11,14-dihydroxy-12-methoxy-abieta-8,11,13,15-tetraen-7-one $C_{21}H_{26}O_4$ (342.44). Yellow green acicular crystals, mp 159–161°C, soluble in hexane, chloroform and methanol. **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 210, 660.

**4876 Dehydroandrographolide**

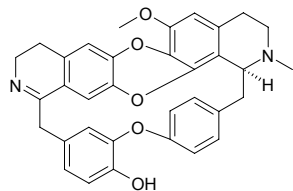
$C_{20}H_{28}O_4$ (332.44). Colorless acicular crystals (recrystallization in 30 and 50% ethanol), mp 204°C. **Pharm:** Anti-inflammatory; antipyretic; used in treatment of infectious diseases of respiratory tract and intestinal tract. **Source:** CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (dried aerial parts: content = 1.19%^[5508]) **Ref:** 661, 5508.



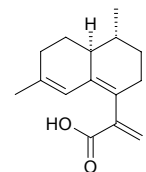
4877 1,2-Dehydroapateline

$C_{34}H_{30}N_2O_5$ (546.63). Yellow amorphous powder, $[\alpha]_D^{25} = +128^\circ$ ($c = 0.42$, MeOH). **Pharm:** Exhibited *in vitro* anticholinesterase activities, $IC_{50} = (116.5 \pm 2.5) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (0.5 \pm 0.0) \mu\text{mol/L}$.

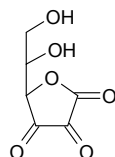
Source: CHUI MU FANG JI *Cocculus pendulus*. **Ref:** 4051.

**4878 6,7-Dehydroartemisinic acid**

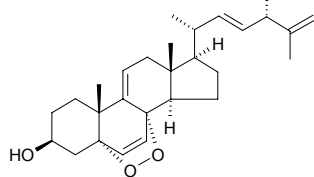
$C_{15}H_{20}O_2$ (232.33). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**4879 Dehydroascorbic acid**

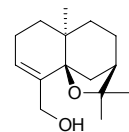
[490-83-5] $C_6H_6O_6$ (174.11). mp 196°C (dec). **Source:** HUI XIANG JING YE *Foeniculum vulgare*, JIANG MANG *Cassia sophera*, MA BO *Lasiosphaera fenzlii*. **Ref:** 6.

**4880 9(11)-Dehydroaxinysterol**

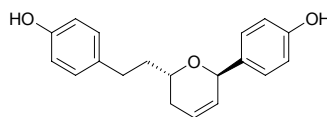
$C_{28}H_{40}O_3$ (424.63). White amorphous solid, $[\alpha]_D^{25} = +78.9^\circ$ ($c = 0.89$, CHCl_3). **Pharm:** Cytotoxic (Breast: HBC4 $IC_{50} = 0.85 \mu\text{g/mL}$; BSY1 $IC_{50} = 0.60 \mu\text{g/mL}$; HBC5 $IC_{50} = 0.96 \mu\text{g/mL}$; MCF7 $IC_{50} = 0.36 \mu\text{g/mL}$; MDA-MB-231 $IC_{50} = 1.26 \mu\text{g/mL}$; Lung: NCI-H23 $IC_{50} = 0.54 \mu\text{g/mL}$; NCI-H226 $IC_{50} = 0.63 \mu\text{g/mL}$; NCI-H522 $IC_{50} = 0.57 \mu\text{g/mL}$; NCI-H460 $IC_{50} = 0.81 \mu\text{g/mL}$; A549 $IC_{50} = 0.96 \mu\text{g/mL}$; DMS273 $IC_{50} = 0.54 \mu\text{g/mL}$; DMS114 $IC_{50} = 0.48 \mu\text{g/mL}$; Stomach: St4 $IC_{50} = 0.69 \mu\text{g/mL}$; MKN1 $IC_{50} = 0.42 \mu\text{g/mL}$; MKN7 $IC_{50} = 0.48 \mu\text{g/mL}$; MKN28 $IC_{50} = 0.84 \mu\text{g/mL}$; MKN45 $IC_{50} = 0.54 \mu\text{g/mL}$; MKN74 $IC_{50} = 0.54 \mu\text{g/mL}$; Kidney: RXF-631L $IC_{50} = 0.72 \mu\text{g/mL}$; ACHN $IC_{50} = 0.51 \mu\text{g/mL}$; Colon: HCC2998 $IC_{50} = 0.57 \mu\text{g/mL}$; KM12 $IC_{50} = 0.60 \mu\text{g/mL}$; HT29 $IC_{50} = 0.57 \mu\text{g/mL}$; HCT15 $IC_{50} = 0.75 \mu\text{g/mL}$; HCT116 $IC_{50} = 0.48 \mu\text{g/mL}$; Ovary: OVCAR-3 $IC_{50} = 0.19 \mu\text{g/mL}$; OVCAR-4 $IC_{50} = 0.60 \mu\text{g/mL}$; OVCAR-5 $IC_{50} = 0.54 \mu\text{g/mL}$; OVCAR-8 $IC_{50} = 0.22 \mu\text{g/mL}$; SK-OV-3 $IC_{50} = 0.81 \mu\text{g/mL}$; CNS: U251 $IC_{50} = 0.63 \mu\text{g/mL}$; SF268 $IC_{50} = 1.02 \mu\text{g/mL}$; SF295 $IC_{50} = 0.75 \mu\text{g/mL}$; SF539 $IC_{50} = 0.84 \mu\text{g/mL}$; SNB75 $IC_{50} = 2.16 \mu\text{g/mL}$; SNB78 $IC_{50} = 1.17 \mu\text{g/mL}$; Prostate: DU145 $IC_{50} = 0.54 \mu\text{g/mL}$; PC3 $IC_{50} = 0.57 \mu\text{g/mL}$; Melanoma: LOX-IMVI $IC_{50} = 0.60 \mu\text{g/mL}$). **Source:** Sponge *Axinysa* sp. **Ref:** 4231.

**4881 Dehydrobaimuxinol**

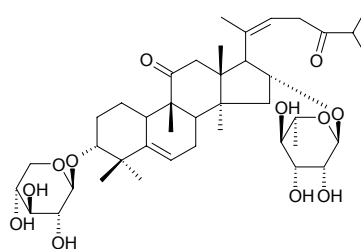
[105013-74-9] $C_{15}H_{24}O_2$ (236.36). Colorless acicular crystals, mp $136\text{--}138^\circ\text{C}$, $[\alpha]_D^{26} = +25^\circ$ ($c = 1.6$, chloroform). **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 58.

**4882 (3S,7R)-5,6-Dehydro-1,7-bis(4-hydroxyphenyl)-4'-de-O-methylcentrolobine**

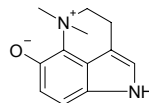
$C_{19}H_{20}O_3$ (286.37). Colorless amorphous solid, $[\alpha]_D^{25} = -12.3^\circ$ ($c = 0.335$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 71.2 \mu\text{mol/L}$, control 5-FU, $ED_{50} = 0.53 \mu\text{mol/L}$; HT1080, $ED_{50} = 45.3 \mu\text{mol/L}$, 5-FU, $ED_{50} = 8.0 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000071%dw). **Ref:** 3048.

**4883 Dehydrobryogenin glycoside**

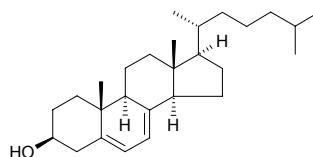
11,24-Dioxo-5,21-dien-cucuebit-3 α -O- β -D-xylopyranosyl-16 α -O- α -L-rhamnopyranoside $C_{41}H_{64}O_{12}$ (748.96). White amorphous powder, $[\alpha]_D^{28} = 0^\circ$ ($c = 0.176$, MeOH). **Source:** KU XUAN SHEN *Picria feltrrae* (whole herb). **Ref:** 4853.

**4884 Dehydrobufotenine**

[17232-69-8] $C_{12}H_{14}N_2O$ (202.26). **Source:** CHAN SU *Bufo bufo* gargarizans; *Bufo melanostictus*. **Ref:** 2.

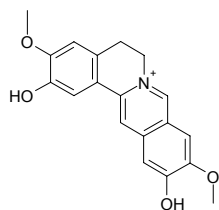
**4885 7-Dehydrocholesterol**

[434-16-2] $C_{27}H_{44}O$ (384.65). mp $142\text{--}143^\circ\text{C}$; 150°C . **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 6.

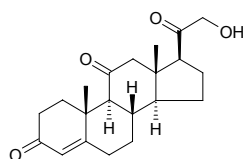


4886 Dehydrocoreximine (perchlorate)

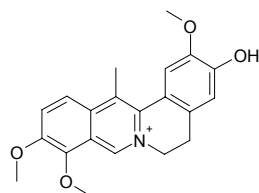
2,3,10,11-Substituted pseudoprotoberberine alkaloid $C_{19}H_{18}NO_4^+$ (324.36). Pale yellow crystalline solid, mp 243~247°C. Source: XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). Ref: 3794.

**4887 11-Dehydrocorticosterone**

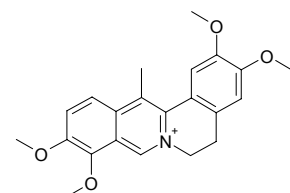
[72-23-1] $C_{21}H_{28}O_4$ (344.45). mp 183.0~183.5°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, ZI HE CHE *Homo sapiens*. Ref: 6.

**4888 Dehydrocorybulbine**

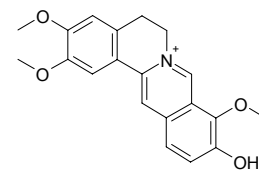
$C_{21}H_{22}NO_4^+$ (352.41). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 2.

**4889 Dehydrocorydaline**

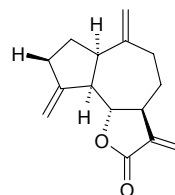
[30045-16-0] $C_{22}H_{24}NO_4^+$ (366.44). Pharm: Antiulcerative (rat, sc, gastric ulcer); coronary vasodilator; increases coronary flow; inhibits gastric secretion; increases tolerance to anoxia (mus); used in treatment of coronary heart disease (main effective component in *Corydalis yanhusuo* YAN HU SUO). Source: CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.025%^[5508]), DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.032%^[5508]), HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.069%^[5508]), XI SHEN SHAN ZI JIN *Corydalis pallida* var. *tenuis*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 5 origins = 0.152%^[5508]). Ref: 2, 658, 5508.

**4890 Dehydrocorydalmine**

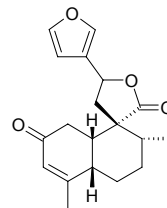
[6877-27-6] $C_{20}H_{20}NO_4^+$ (338.39). Source: CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.208%^[5508]), HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.122%^[5508]), YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 6, 5508.

**4891 Dehydrocostuslactone**

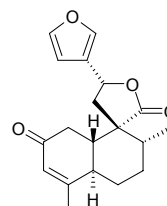
$C_{15}H_{18}O_2$ (230.31). mp 60.5°C. Pharm: Plant growth regulator; antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.3μmol/L); anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (*in vitro*, HepG₂, CD₅₀ = 3.5μg/mL; HeLa, CD₅₀ = 3.5μg/mL; OVCAR-3, CD₅₀ = 2.5μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8μg/mL; HeLa, CD₅₀ = 5.2μg/mL; OVCAR-3, CD₅₀ = 3μg/mL; without significant antibacterial effect)^[4720]. Source: CHUAN MU XIANG *Vladimiria souliei* [Syn. *Jurinea souliei*] (root: content scope of 4 origins = 0.482%~1.620%, mean content of = 1.29%^[5508]), MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: mean content of 10 origins = 1.83%^[5508], yield = 0.019%^[4720]), YUE GUI YE *Laurus nobilis*, YUE XI MU XIANG *Vladimiria denticulata*. Ref: 2, 6, 658, 660, 4248, 4415, 4720, 5508.

**4892 cis-Dehydrocrotonin**

$C_{19}H_{22}O_4$ (314.38). Source: GE LUN BI YA BA DOU *Croton schiedeanus*. Ref: 4552.

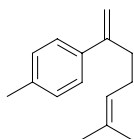
**4893 trans-Dehydrocrotonin**

$C_{19}H_{22}O_4$ (314.38). Pharm: Antiulcerogenic^[5351]; cytotoxic (HL-60 cells, MTT assay, 24h, IC₅₀ = 300μmol/L, 96h, IC₅₀ = 180μmol/L, control Myricetin, 24h, IC₅₀ = 192μmol/L; protein quantification, 24h, IC₅₀ = 500μmol/L, 96h, IC₅₀ = 150μmol/L, control Myricetin, 24h, IC₅₀ = 300μmol/L). Source: KA ZHU BA DOU *Croton cajucara*. Ref: 5351.

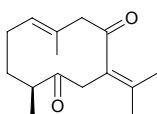


4894 Dehydro- α -curcumene

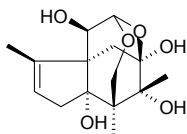
[4999-58-0] C₁₅H₂₀ (200.33). Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. Ref: 6.

**4895 Dehydrocurdione**

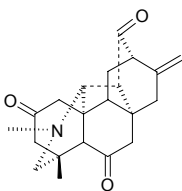
[38230-32-9] C₁₅H₂₂O₂ (234.34). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (12.8 \pm 3.1)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], JIANG HUANG *Curcuma longa*. Ref: 6, 640, 4150.

**4896 1,2-Dehydrocycloparvifloralone**

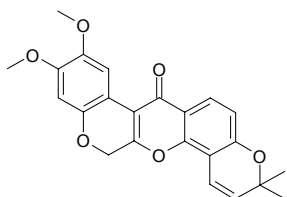
C₁₅H₂₂O₆ (298.34). Colorless amorphous powder, $[\alpha]_D^{22} = +14^\circ$ ($c = 1.77$, CH₃OH). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1-10 μ mol/L). Source: *Illicium merrillianum* (pericarp; yield = 0.00038%dw). Ref: 3046.

**4897 Dehydrodeacetylheterophylloidine**

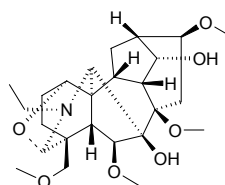
C₂₁H₂₅NO₃ (339.44). Amorphous, $[\alpha]_D^{25} = -73.3^\circ$ ($c = 0.17$, CHCl₃). Source: WU ZHU FEI YAN CAO *Delphinium pentagynum* (aerial parts). Ref: 3831.

**4898 Dehydrodeguelin**

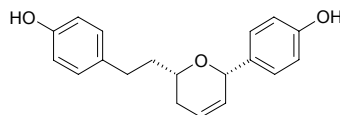
6 α ,12 α -Dehydrodeguelin [3466-23-7] C₂₃H₂₀O₆ (392.41). Straw yellow solid, mp 215~225°C. Pharm: cAMP phosphodiesterase inhibitor (rat heart, IC₅₀ = 6.2 μ mol/L); larvacide (larva of mosquito); nematocide (*in vitro*, 0.1 μ g/mL, larva of *Toxocara canis*, after 6 hours cultivation, RM = 30, after 24 hours, RM = 0). Source: MU LAN⁽²⁾ *Indigofera tinctoria*, HUI YE GEN *Tephrosia purpurea*. Ref: 946, 1138, 1188.

**4899 Dehydrodeltatsine**

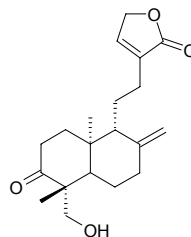
C₂₅H₃₉NO₇ (465.59). Amorphous solid, $[\alpha]_D^{25} = +20^\circ$ ($c = 0.1$, CHCl₃). Source: DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). Ref: 4283.

**4900 (3*S*,7*S*)-5,6-Dehydro-4''-de-*O*-methylcentrolobine**

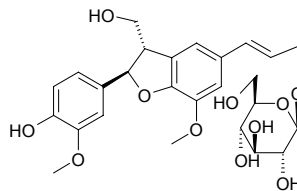
C₁₉H₂₀O₃ (286.37). Pharm: Cytotoxic (Colon26-L5, ED₅₀ > 100 μ mol/L, control 5-FU, ED₅₀ = 0.53 μ mol/L; HT1080, ED₅₀ = 79.4 μ mol/L, 5-FU, ED₅₀ = 8.0 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed; yield = 0.000014%dw). Ref: 3048.

**4901 3-Dehydrodeoxyandrographolide**

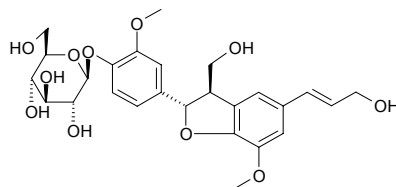
C₂₀H₂₈O₄ (332.44). Colorless lamellar crystals (MeOH), mp 140~142°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (leaf). Ref: 4913.

**4902 (7*R*,8*S*)Dehydrodiconifery alcohol-9'-*O*- β -*D*-glucoside**

C₂₆H₃₂O₁₁ (520.54). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*. Ref: 2448.

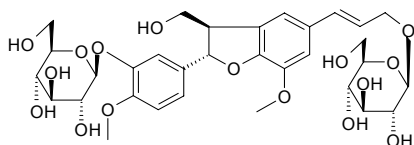
**4903 (7*S*,8*R*)Dehydrodiconifery alcohol-4-*O*- β -*D*-glucoside**

[107870-88-2] C₂₆H₃₂O₁₁ (520.54). White powder, $[\alpha]_D^{21} = -45.8^\circ$ ($c = 0.9$, MeOH). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*, MAO JIAN QIU LUO *Lychnis coronaria*. Ref: 2189, 2448.

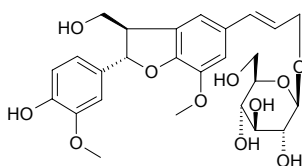


4904 Dehydrodiconiferyl alcohol 4,γ'-di-O-β-D-glucopyranoside

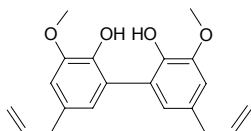
[109792-90-7] C₃₂H₄₂O₁₆ (682.68). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**4905 (7S,8R) Dehydrodiconiferyl alcohol 9'-β-glucopyranoside**

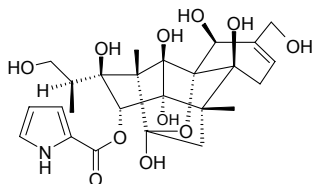
C₂₆H₃₂O₁₁ (520.54). Pale yellow amorphous powder, [α]_D¹⁵ = -19.5° (c = 0.4, CHCl₃). Source: SUO YANG *Cynomorium songaricum* (stem). Ref: 4114.

**4906 Dehydrodieugenol**

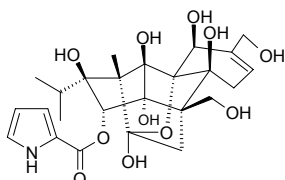
[4433-08-3] C₂₀H₂₂O₄ (326.40). Pharm: Antifungal (using extract of bark of *Litsea turfosa*). Source: NI ZHAO MU JIANG ZI *Litsea turfosa*. Ref: 658.

**4907 (13S)-8,9-Dehydro-18,21-dihydroxy-10-epi-ryanodine**

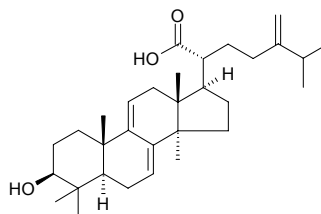
C₂₅H₃₃NO₁₁ (523.54). Crystals (CHCl₃:MeOH = 1:1), mp 162°C, [α]_D = +7° (c = 0.2). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**4908 8,9-Dehydro-20,21-dihydroxy-10-epi-ryanodine**

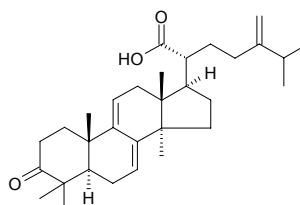
C₂₅H₃₃NO₁₁ (523.54). Crystals (CHCl₃:MeOH = 1:1), mp 173°C, [α]_D = +6° (c = 0.2). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**4909 Dehydroeburicoic acid**

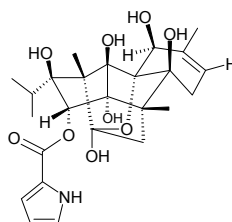
3β-Hydroxy-24-methylene-lanosta-7,9(11)-dien-21-oic acid [6879-05-6] C₃₁H₄₈O₃ (468.73). mp 286–288°C. Source: A LI HONG *Fomes officinalis*, FU LING *Poria cocos*. Ref: 6, 660.

**4910 Dehydroeburicoic acid**

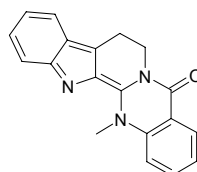
[18449-25-7] C₃₁H₄₆O₃ (466.71). mp 240–242°C. Source: A LI HONG *Fomes officinalis*. Ref: 6.

**4911 8,9-Dehydro-10-epi-ryanodine**

C₂₅H₃₃NO₉ (491.54). Crystals (CHCl₃:Me₂CO = 1:1), mp 165°C, [α]_D = +20° (c = 0.1). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 17nmol/L)^[5139]. Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

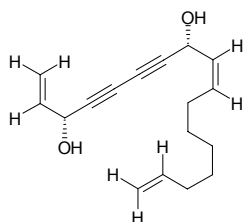
**4912 Dehydroevodiamine**

C₁₉H₁₅N₃O (301.35). Pharm: Uterine stimulant (rat, *in vitro*); slows heart rate (anesthetic rat); antihypertensive (anesthetic rat). Source: WU ZHU YU *Evodia rutaecarpa* (dried unripe fruit). Ref: 5031, 5501.

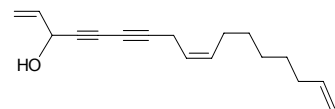


4913 3R,8R-Dehydrofalcarindiol

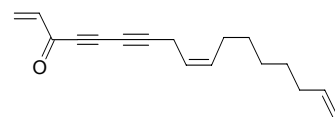
$C_{17}H_{22}O_2$ (258.36). Pale yellow oil, $[\alpha]_D^{25} = +39.8^\circ$ ($c = 2.66$, $CHCl_3$). **Pharm:** 12-Lipoxygenase inhibitor inactive (10 μ g/mL, InRt = 0%; 30 μ g/mL, InRt = 0%; control Baicalein, 10 μ g/mL, InRt = 56.23%); cytotoxic (*in vitro*, MTT assay: LS174T colorectal cancer, $IC_{50} = (14.8 \pm 7.2)\mu$ g/mL, control Doxorubicin, $IC_{50} = (324 \pm 100)$ ng/mL; SKCO1 colorectal cancer, $IC_{50} = (13.3 \pm 5.4)\mu$ g/mL, Doxorubicin, $IC_{50} = (28.5 \pm 10)$ ng/mL; COLO320DM colorectal cancer, $IC_{50} = 9.6\mu$ g/mL, Doxorubicin $IC_{50} = (1163 \pm 168)$ ng/mL; WIDr colorectal cancer, $IC_{50} = 10.9\mu$ g/mL; MDA231 breast cancer, $IC_{50} = 37.6\mu$ g/mL; MCF7 breast cancer, $IC_{50} = 5.8\mu$ g/mL). **Source:** DAN ZI HAO *Artemisia monosperma*. **Ref:** 5249.

**4914 Dehydrofalcarinol**

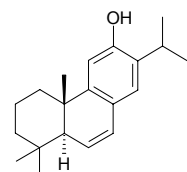
[36150-08-0] $C_{17}H_{22}O$ (242.36). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**4915 Dehydrofalcarinone**

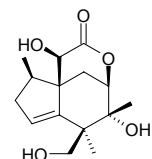
[4117-05-9] $C_{17}H_{20}O$ (240.35). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**4916 Δ^6 -Dehydroferruginol**

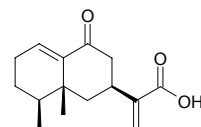
$C_{20}H_{28}O$ (284.45). **Pharm:** 12(S)-LOX inhibitor inactive (hmn Platelets, 100 μ g/mL, 12(S)-HETE Production inhibitor inactive)^[4980]. **Source:** DU SONG SHI *Juniperus rigida*, OU ZHOU CI BAI *Juniperus communis* (wood). **Ref:** 6, 4980.

**4917 3,4-Dehydrofloridanolide**

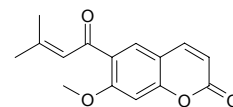
$C_{15}H_{22}O_5$ (282.34). Colorless amorphous, $[\alpha]_D^{20} = +44^\circ$ ($c = 1.90$, $CHCl_3$). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 5113.

**4918 Dehydroflourensic acid**

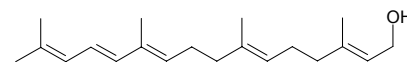
$C_{15}H_{20}O_3$ (248.32). Oil. **Pharm:** Phytotoxin (inhibits radicle growth, *Amaranthus hypochondriacus*, $IC_{50} = 196\mu$ mol/L, control 2,4-D, $IC_{50} = 180\mu$ mol/L; *Echinochloa crusgalli*, $IC_{50} = 620\mu$ mol/L, control 2,4-D, $IC_{50} = 230\mu$ mol/L); CaM interactor (cAMP phosphodiesterase inhibitor, $IC_{50} = 23.2\mu$ mol/L, control Chlorpromazine, $IC_{50} = 10.2\mu$ mol/L, interacted with bovine-brain calmodulin and inhibited the activation of the calmodulin-dependent enzyme cAMP phosphodiesterase). **Source:** FU CHUI FE LAO JU *Flourensia cernua*. **Ref:** 3433.

**4919 Dehydrogeijerin**

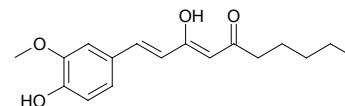
[16850-91-2] $C_{15}H_{14}O_4$ (258.28). mp 132°C. **Source:** YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**4920 12,13-Dehydrogeranylgeraniol**

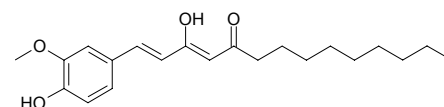
$C_{20}H_{32}O$ (288.48). Clear oil. **Pharm:** Antioxidant (HL-60, PMA-induced peroxide-catalyzed oxidation of 2',7'-dichlorodihydrofluorescein dye (DCFH) by reactive oxygen species (ROS), 5 μ g/mL (17.4 μ mol/L), InRt = 28%)^[3060]. **Source:** MEI ZHOU SAN BAI CAO *Saururus cernuus* (stem and leaf), SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 3060, 5146.

**4921 6-Dehydrogingerdione**

[76060-35-0] $C_{17}H_{22}O_4$ (290.36). **Pharm:** Anti-inflammatory (prostaglandin biosynthesis inhibitor, $IC_{50} = 2.3\mu$ mol/L); anti-diarrheal (mus, orl, 10mg/kg, inhibits 5-HT-induced diarrhea and loss of body temperature); antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL, liver toxicosis induced by CCl_4 , GPT = (70 \pm 2)% of that of control, $p < 0.001$); prostaglandin synthetase inhibitor ($IC_{50} = 1.0\mu$ mol/L). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2, 1815, 1816, 1817, 1820.

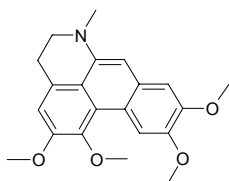
**4922 10-Dehydrogingerdione**

[82206-04-0] $C_{21}H_{30}O_4$ (346.47). **Pharm:** Anti-inflammatory (prostaglandin biosynthesis inhibitor, $IC_{50} = 1.0\mu$ mol/L); antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL, liver toxicosis induced by CCl_4 , GPT = (80 \pm 1)% of that of control, $p < 0.01$). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2, 1815, 1817.

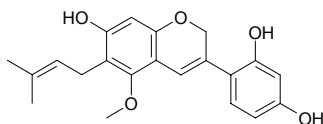


4923 Dehydroglaucine

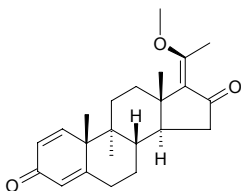
[22212-26-6] $C_{21}H_{23}NO_4$ (353.42). Yellow lamellar crystals, mp 121~122°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*, and *Mycobacterium smegmatis*, MIC = 25µg/mL); antifungal (*Candida albicans*, MIC = 25µg/mL; *Saccharomyces cerevisiae*, MIC = 50µg/mL). **Source:** BEI MEI E ZHANG QIU *Liriodendron tulipifera*, HUANG HAI YING SU *Glaucium flavum*. **Ref:** 661.

**4924 Dehydroglyasperin C**

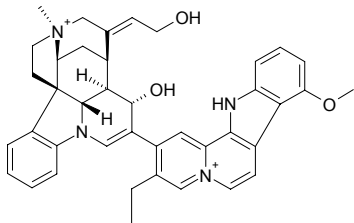
$C_{21}H_{22}O_5$ (354.41). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*. **Ref:** 2431.

**4925 Dehydroguggulsterone M**

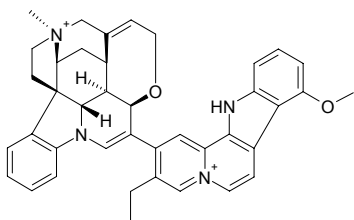
$C_{22}H_{28}O_3$ (340.47). Amorphous powder, $[\alpha]_D^{25} = +36.5^\circ$ ($c = 0.76$, MeOH) **Source:** A MAN SU DAN MO YAO *Commiphora wightii*. **Ref:** 2062.

**4926 5',6'-Dehydroguaiachrysin**

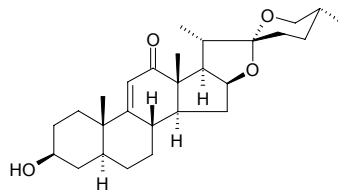
$C_{40}H_{42}N_4O_3^{+2}$ (626.81). Orange-brown colored amorphous powder. **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor, $IC_{50} = 21.5\mu\text{mol/L}$; Venezuelan calabash curare, $IC_{50} = 6.5\mu\text{mol/L}$). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 5202.

**4927 5',6'-Dehydroguiaflavine**

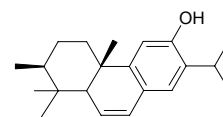
$C_{40}H_{40}N_4O_2^{+2}$ (608.79). Orange-brown colored amorphous powder. **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor, $IC_{50} = 24\mu\text{mol/L}$; Venezuelan calabash curare, $IC_{50} = 6.5\mu\text{mol/L}$). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 5202.

**4928 9(11)-Dehydrohecogenin**

$C_{27}H_{40}O_4$ (428.62). mp 230~232°C. **Source:** FAN MA *Agave americana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], *Agave deserti*. **Ref:** 2503.

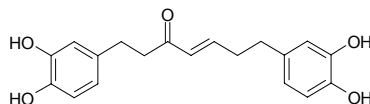
**4929 6-Dehydrohinokiol**

$C_{21}H_{30}O$ (298.47). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

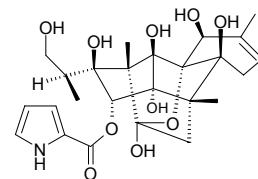
**4930 Dehydrohirsutanonol**

1,7-Di-(3',4'-dihydroxyphenyl)-4-hepten-3-one $C_{19}H_{20}O_5$ (328.37).

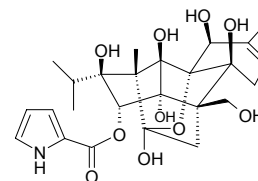
Syrupy solid. **Pharm:** Antioxidant (superoxide radical scavenger, $IC_{50} = 1.2\mu\text{mol/L}$; DPPH scavenger, $IC_{50} = 2.4\mu\text{mol/L}$)^[4535]; cytotoxic (TK10, $GI_{50} = 6.8\mu\text{g/mL}$, control Etoposide, $GI_{50} = 8.1\mu\text{g/mL}$; MCF7, $GI_{50} = 1.9\mu\text{g/mL}$, Etoposide, $GI_{50} = 0.33\mu\text{g/mL}$; UACC62, $GI_{50} = 4.8\mu\text{g/mL}$, Etoposide, $GI_{50} = 0.97\mu\text{g/mL}$)^[5195]. **Source:** CHI YANG *Alnus japonica* (leaf), SHI ZI XING HU JI SHENG *Viscum cruciatum* (aerial parts). **Ref:** 4535, 5195.

**4931 (13S)-8,9-Dehydro-18-hydroxy-10-epi-ryanodine**

$C_{25}H_{33}NO_{10}$ (507.54). Crystals ($CHCl_3$: $Me_2CO = 3:1$), mp 168°C, $[\alpha]_D^{25} = +11^\circ$ ($c = 0.2$). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 1500\text{nmol/L}$). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

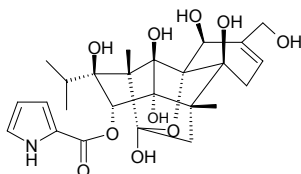
**4932 8,9-Dehydro-20-hydroxy-10-epi-ryanodine**

$C_{25}H_{33}NO_{10}$ (507.54). Crystals ($CHCl_3$: $Me_2CO = 3:1$), mp 148°C, $[\alpha]_D^{25} = +14^\circ$ ($c = 0.2$). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 440\text{nmol/L}$). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

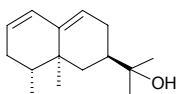


4933 8,9-Dehydro-21-hydroxy-10-epi-ryanodine

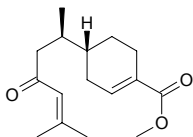
$C_{25}H_{33}NO_{10}$ (507.54). Crystals ($CHCl_3:Me_2CO = 3:1$), mp 178°C, $[\alpha]_D = +25^\circ$ ($c = 1.0$). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 1900\text{nmol/L}$)^[5139]. **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

**4934 Dehydrojinkohereol**

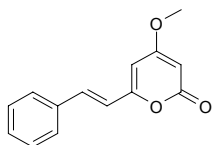
$C_{15}H_{24}O$ (220.36). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**4935 Dehydrojuvabione**

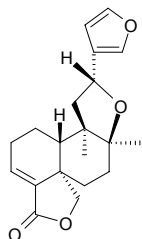
$C_{16}H_{24}O_3$ (264.37). **Pharm:** Insect juvenile hormone. **Source:** XIANG ZHI LENG SHAN *Abies balsamea*. **Ref:** 658.

**4936 5,6-Dehydrokawain**

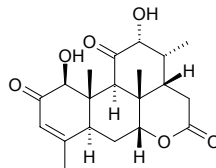
[15345-89-8] $C_{14}H_{12}O_3$ (228.25). **Pharm:** Anticonvulsant; local anesthetic; cytotoxic inactive (Colon26-L5, HT1080, 100 $\mu\text{mol/L}$)^[3042]. **Source:** DA CAO KOU *Alpinia speciosa*, DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], KA WA HU JIAO *Piper methysticum*, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00390%)^[3042]. **Ref:** 658, 3042.

**4937 Dehydrokerlin**

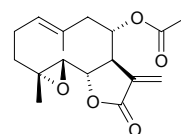
$C_{20}H_{24}O_4$ (328.41). **Source:** DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). **Ref:** 3901.

**4938 11-Dehydroklaineone**

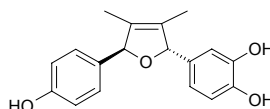
$C_{20}H_{26}O_6$ (362.43). **Pharm:** Plant growth inhibitor (Cucumber seedling, root growth, $IC_{50} = (55.6 \pm 1.0)\mu\text{mol/L}$, shoot growth, $IC_{50} = (77.3 \pm 1.0)\mu\text{mol/L}$; Rice seedling, root growth, $IC_{50} > 200\mu\text{mol/L}$, shoot growth, $IC_{50} > 200\mu\text{mol/L}$). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (leaf). **Ref:** 5215.

**4939 11,13-Dehydrolanuginolide**

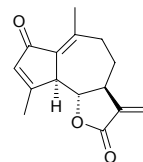
$C_{17}H_{22}O_5$ (306.36). Colorless acicular crystals (ether), mp 167°C (dec), $[\alpha]_D = -96.5^\circ$ ($c = 0.74$, $CHCl_3$). **Pharm:** Cytotoxic (KB, $ED_{50} = 1.8\mu\text{g/mL}$). **Source:** NAN YA HAN XIAO *Michelia doltsopa*. **Ref:** 661.

**4940 3,4-Dehydrolarreatricin**

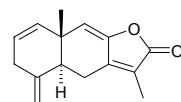
Dehydrolarreatricin $C_{18}H_{18}O_4$ (298.34). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} > 62.5\mu\text{g/mL}$; control NDGA, $IC_{50} = (0.7 \pm 0.3)\mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7)\mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5)\mu\text{g/mL}$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} = (27.6 \pm 0.4)\mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2)\mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0\mu\text{g/mL}$, Trolox, $IC_{50} > 10.0\mu\text{g/mL}$)^[3850]. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 1521, 3850.

**4941 Dehydroleucodin**

Mesatlantin E [36150-07-9] $C_{15}H_{16}O_3$ (244.29). mp 131°C (diethyl ether-petroleum ether), $[\alpha]_{589\text{nm}}^{22} = +77^\circ$, $[\alpha]_{578\text{nm}}^{22} = +81^\circ$, $[\alpha]_{546\text{nm}}^{22} = +92^\circ$, $[\alpha]_{430\text{nm}}^{22} = +155^\circ$ ($c = 2.5$, chloroform). **Pharm:** Antilucerative (rat and mus, stomach/duodenum mucous membrane damage caused by EtOH); cytotoxic (KB ATCC CCL17, $IC_{50} = 1.3\mu\text{g/mL}$)^[5399]. **Source:** YAN XIANG JU *Chrysanthemum lavandulifolium*, YI KUA *Artemisia myriantha* (aerial parts)^[4618], *Warionia saharae*. **Ref:** 900, 4618, 5399.

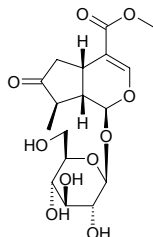
**4942 Dehydrolindestrenolide**

[32810-35-8] $C_{15}H_{16}O_2$ (228.29). mp 111~113°C. **Source:** WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. **Ref:** 6.

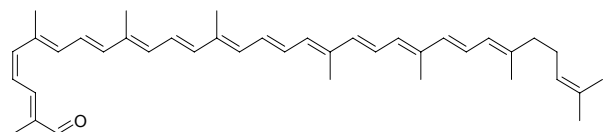


4943 Dehydrologanin

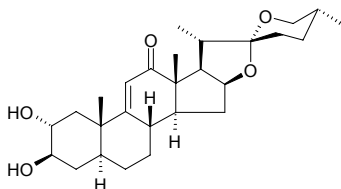
Ketologanin [152-91-0] C₁₇H₂₄O₁₀ (388.37). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*], MA QIAN ZI *Strychnos nux-vomica*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (fruit: yield = 0.00022%dw)^[9]. Ref: 2, 9, 639, 660.

**4944 3,4-Dehydrolycopen-16-al**

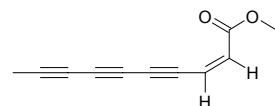
C₄₀H₅₂O (548.86). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6.

**4945 9(11)-Dehydromanogenin**

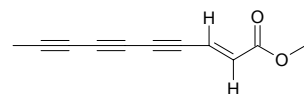
C₂₇H₄₀O₅ (444.62). mp 240°C. Source: FAN MA *Agave americana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], *Agave deserti*. Ref: 2503.

**4946 Dehydromatricaria ester**

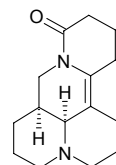
Methyl-*cis*-2-decen-4,6,8-trienoate [2739-57-3] C₁₁H₁₈O₂ (172.19). mp 114~115°C. Source: AI YE *Artemisia argyi*, QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 6.

**4947 trans-Dehydromatricaria ester**

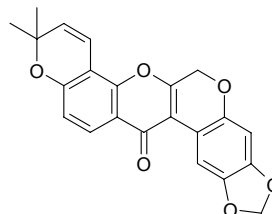
Methyl-*trans*-2-decene-4,6,8-trienoate [692-94-4] C₁₁H₁₈O₂ (172.19). mp 105°C. Source: BI MA GEN *Ricinus communis*, DA YE BAI TOU WENG *Anaphalis margaritacea*. Ref: 6.

**4948 7,11-Dehydromatrine**

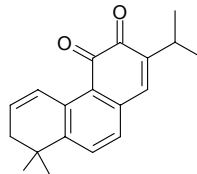
[46862-63-9] C₁₅H₂₂N₂O (246.36). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.

**4949 6α,12α-Dehydromillettone**

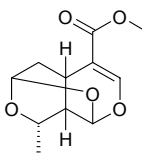
C₂₂H₁₆O₆ (376.37). Yellow crystals, mp>300°C. Pharm: Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, IC₅₀ = 33.3μmol/L, control Chloroquine, IC₅₀ = 0.094μmol/L, control Quinine, IC₅₀ = 0.209μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, IC₅₀ = 39.1μmol/L, control Chloroquine, IC₅₀ = 0.009μmol/L, control Quinine, IC₅₀ = 0.044μmol/L). Source: *Millettia usaramensis* ssp. *usaramensis*. Ref: 3454.

**4950 Dehydromiltirone**

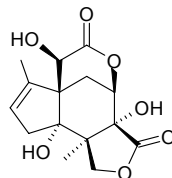
Δ¹-Dehydromiltirone C₁₉H₂₀O₂ (280.37). Red acicular crystals, mp 45~46°C; red oleaginous substance. Source: HONG GEN CAO *Salvia prionitis*, DAN SHEN *Salvia miltiorrhiza*. Ref: 102, 116.

**4951 Dehydromorroniaglicone**

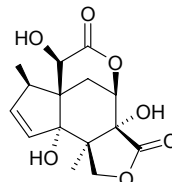
C₁₁H₁₄O₅ (226.23). White crystals, mp 119~120°C, [α]_D²¹ = -47.17° (c = 0.053, EtOH). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (fruit: yield = 0.00044%dw)^[9]. Ref: 9, 479, 5502.

**4952 1,2-Dehydreneomajucin**

C₁₅H₁₈O₇ (310.31). Amorphous solid, [α]_D²⁰ = -7.8° (c = 0.16, EtOH). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.00013%dw). Ref: 4621.

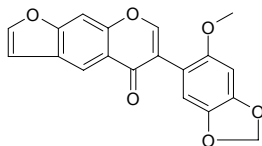
**4953 2,3-Dehydreneomajucin**

C₁₅H₁₈O₇ (310.31). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp). Ref: 4621.

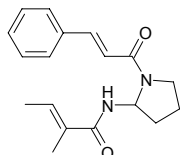


4954 Dehydroneotene

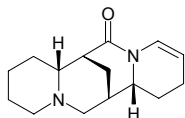
$C_{19}H_{12}O_6$ (336.30). Source: DI GUA ZI *Pachyrhizus erosus*. Ref: 4180.

**4955 Dehydrodorine**

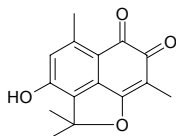
$C_{18}H_{22}N_2O_2$ (298.39). Source: DA YE SHU LAN *Aglaia elliptifolia* (leaf): yield = 0.00104%dw. Ref: 3031.

**4956 (+)-2,3-Dehydro-10-oxo- α -isoparteine**

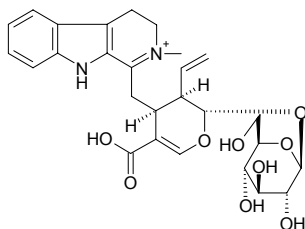
$C_{15}H_{22}N_2O$ (246.36). Colorless needles, mp 98~103°, $[\alpha]_D^{26} = +132^\circ$ ($c = 0.6$, EtOH). Source: FA GUO JIN QUE ER *Cytisus monspessulanus*. Ref: 1943.

**4957 Dehydrooxoperezinone**

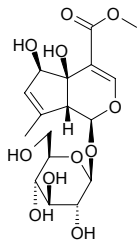
$C_{15}H_{14}O_4$ (258.28). Orange needles ($CHCl_3/CH_3OH$), mp > 280°C. Pharm: Anti-HIV (*in vitro*, acutely infected H-9 lymphocyte cells, $IC_{50} = 25.1\mu g/mL$, $EC_{50} = 17.5\mu g/mL$, $TI = 1.43$); cytotoxic inactive (*in vitro*, MCF7 and A549). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem): yield = 0.00069%. Ref: 4706.

**4958 3,4-Dehydropalicoside**

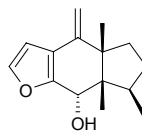
$C_{27}H_{33}N_2O_9^+$ (529.57). Amorphous powder, $[\alpha]_D^{25} = -27^\circ$ ($c = 0.175$, MeOH). Source: *Strychnos vanprukii* (stem). Ref: 3471.

**4959 7,8-Dehydropenstemoside**

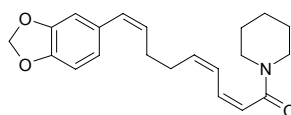
$C_{17}H_{24}O_{11}$ (404.37). Colorless powder, mp 119~120°C. Source: DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. Ref: 381.

**4960 Dehydropinguisenol**

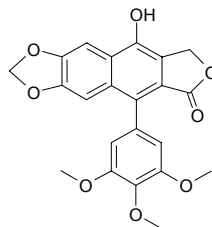
$C_{15}H_{20}O_2$ (232.33). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.

**4961 Dehydropiperonaline**

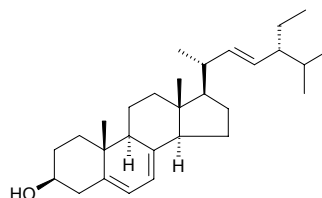
$C_{21}H_{25}NO_3$ (339.44). Colorless crystals. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (50.6±14.2)mm, control, length = (118.6±16.2)mm, InRt = 57.3%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (34.1±11.0)mm, control, length = (89.5±9.8)mm, InRt = 61.9%). Source: *Piper chaba* (fruit). Ref: 4935.

**4962 Dehydropodophyllotoxin**

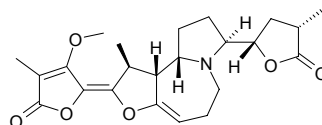
$C_{22}H_{18}O_8$ (410.38). mp 275~276°C. Source: GUI JIU *Dyosma versipellis* [Syn. *Podophyllum versipelle*], LIU JIAO LIAN *Dyosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.019%)^[5508], SHAN HE YE *Diphylleia grayi*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (rhizome: mean content of 2 origins = 0.037%)^[5508], WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.072%)^[5508]. Ref: 6, 279, 5508.

**4963 7-Dehydroporiferasterol**

Corbisterol [19432-13-4] $C_{29}H_{46}O$ (410.69). Pharm: Anti-inflammatory (inflammation caused by TPA in mus, 1mg/ear, InRt = 85%, $ID_{50} = 0.5mg/ear$). Source: YAN CAO *Nicotiana tabacum*. Ref: 900.

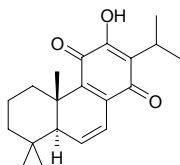
**4964 Dehydroprotostemonine**

$C_{23}H_{29}NO_6$ (415.49). Amorphous, $[\alpha]_D^{20} = +72^\circ$ ($c = 0.3$, MeOH). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 6.1mg/L$, $EC_{50} = 0.8mg/L$). Source: DI TANG BAI BU *Stemona kerrii*, *Stemona curtisii*. Ref: 3409.

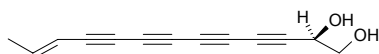


4965 6,7-Dehydroroyleanone

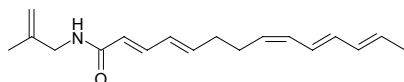
$C_{20}H_{26}O_3$ (314.43). Red crystals, mp 160~164°C. Source: XIU QIU SHU WEI CAO *Salvia hydrangea* (root). Ref: 5447.

**4966 Dehydrosafynol**

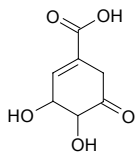
$C_{13}H_{10}O_2$ (198.22). Pharm: Plant antitoxin. Source: HONG HUA *Carthamus tinctorius*. Ref: 658.

**4967 Dehydro-γ-sanshool**

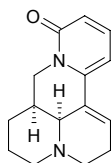
$C_{18}H_{25}NO$ (271.41). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

**4968 Dehydroshikimic acid**

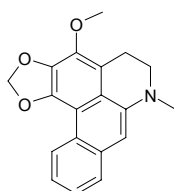
$C_7H_8O_5$ (172.14). mp 150~152°C; 201~202°C. Source: HE ZI *Terminalia chebula*, HE ZI YE *Terminalia chebula*. Ref: 6.

**4969 Δ⁷-Dehydrosophoramine**

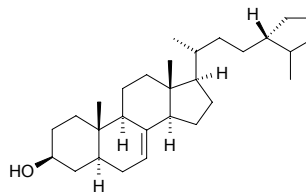
[67767-18-4] $C_{15}H_{18}N_2O$ (242.32). Source: HUANG BAI *Phellodendron amurense*. Ref: 2.

**4970 Dehydrostephalagine**

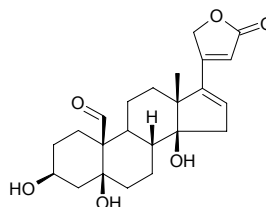
$C_{19}H_{17}NO_3$ (307.35). Pharm: Cytotoxic inactive (yeast assay: RS321NYCp50(gal), RS321NpRAD52(gal), RS321NpRAD52(glu)). Source: DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem). Ref: 5457.

**4971 7-Dehydrostigmasterol**

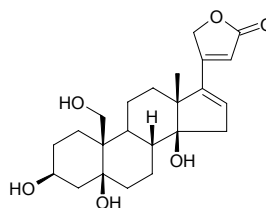
$C_{29}H_{50}O$ (414.72). Source: HUANG BAI *Phellodendron amurense*. Ref: 2.

**4972 16-Dehydrostrophanthidin**

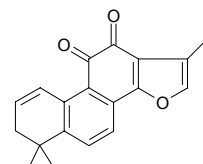
$C_{23}H_{30}O_6$ (402.49). mp 226°C; 253~262°C, $[\alpha]_D = +82.3^\circ$. Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.

**4973 16-Dehydrostrophanthidol**

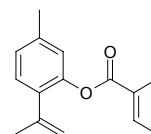
$C_{23}H_{32}O_6$ (404.51). mp 242~247°C, $[\alpha]_D = 68.9^\circ$. Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.

**4974 Δ¹-Dehydrotanshinone**

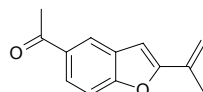
$C_{19}H_{16}O_3$ (292.34). Dark red acicular crystals, mp 147~148°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 116.

**4975 8,9-Dehydrothymol 3-O-tiglate**

$C_{15}H_{18}O_2$ (230.31). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

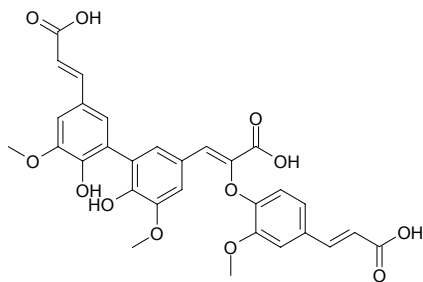
**4976 Dehydrotremetone**

[3015-20-1] $C_{13}H_{12}O_2$ (200.24). Pharm: Antibacterial; fish toxin (goldfish). Source: QIAN MA YE ZE LAN *Eupatorium urticaefolium*. Ref: 658.

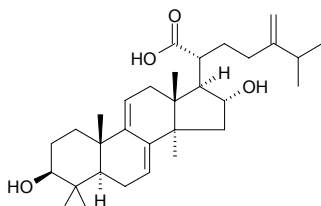


4977 4-O-8',5'-5''-Dehydrotriferulic acid

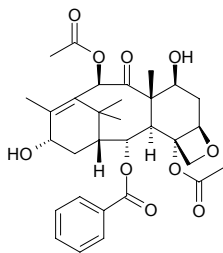
$C_{30}H_{26}O_{12}$ (578.53). Source: YU MI FU *Zea mays* (bran). Ref: 3420.

**4978 Dehydrotumulolic acid**

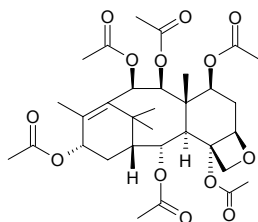
$C_{31}H_{48}O_4$ (484.73). Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). Source: FU LING *Poria cocos* (sclerotium: yield = 0.00084%dw). Ref: 4616.

**4979 1-Dehydroxybaccatin III**

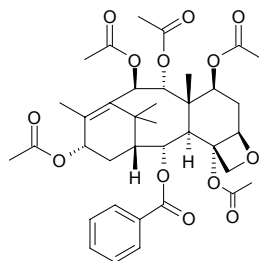
$C_{31}H_{38}O_{10}$ (570.64). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4980 1 β -Dehydroxybaccatin IV**

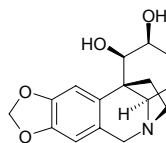
$C_{32}H_{44}O_{13}$ (636.70). Colorless prisms, $[\alpha]_D = +5^\circ$ ($CHCl_3$), mp 286°C, mp 259–260°C, $[\alpha]_D = +99^\circ$ ($CHCl_3$). Pharm: NO production inhibitor ($IC_{50} = 32.2\mu mol/L$, control *L*-NMMA, $IC_{50} = 28.5\mu mol/L$)^[5407]. Source: HONG DOU SHAN *Taxus chinensis*, JIE ZHI HONG DOU SHAN *Taxus media*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 662, 2488, 5407.

**4981 1 β -Dehydroxybaccatin VI**

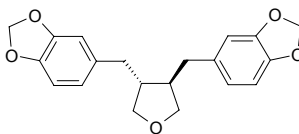
$C_{37}H_{46}O_{13}$ (698.77). Colorless crystals, mp 220–221°C, $[\alpha]_D = -21.2^\circ$ ($CHCl_3$). Source: JIE ZHI HONG DOU SHAN *Taxus media*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 139, 662.

**4982 4 α -Dehydroxycrinamabine**

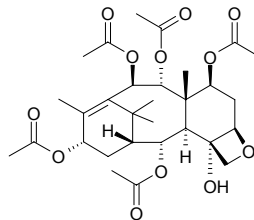
$C_{16}H_{19}NO_4$ (289.33). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense* strain STIB-900, stage trypomastigotes, $IC_{50} = 11.07\mu g/mL$); antimalarial inactive (*Plasmodium falciparum* strain NF-54, stage IEF). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

**4983 Dehydroxycubebin**

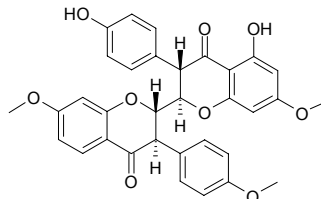
$C_{20}H_{30}O_5$ (340.38). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000034%dw). Ref: 4783.

**4984 1 β -Dehydroxy-4 α -deacetylbaaccatin IV**

$C_{30}H_{42}O_{12}$ (594.66). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

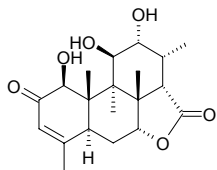
**4985 Dehydroxyhexaspermone C**

rel-4',7-Dimethoxy-4-oxo-2,3-*trans*-isoflavanyl-(2→2'')-4'',5''-dihydroxy-7''-methoxy-2'',3''-*trans*-isoflavanone $C_{33}H_{28}O_9$ (568.59). White or colorless solid, mp 133–135°C, $[\alpha]_D^{23.7} = -117.0^\circ$ ($c = 0.05$, MeOH). Pharm: Antibacterial inactive (MDR *Staphylococcus aureus*: RN4220 strain, 64 $\mu g/mL$, control Erythromycin, MIC = 128 $\mu g/mL$; XU212 strain, 64 $\mu g/mL$, control Tetracycline, MIC = 128 $\mu g/mL$; SA-1199-B strain, 64 $\mu g/mL$, control Norfloxacin, MIC = 32 $\mu g/mL$). Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*. Ref: 5372.

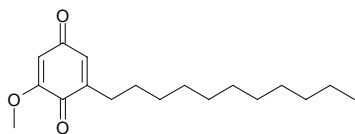


4986 6-Dehydroxylongilactone

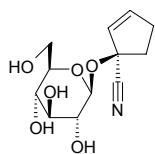
6-Dehydroxylongilactone $C_{19}H_{26}O_6$ (350.42). **Pharm:** Cytotoxic (P₃₈₈, IC₅₀ = 0.66 μg/mL, A549 cells, remarkable activity, MCF7 cells, IC₅₀ < 2.5 μg/mL)^[4556]; plant growth inhibitor (Cucumber seedling, root growth, IC₅₀ = (25.7±0.5) μmol/L, shoot growth, IC₅₀ = (48.6±0.5) μmol/L; Rice seedling, root growth, IC₅₀ > 200 μmol/L, shoot growth, IC₅₀ > 200 μmol/L)^[5215]. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. **Ref:** 4556, 5215.

**4987 2-Dehydroxy-5-O-methylembelin**

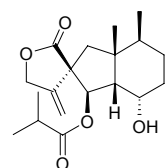
$C_{18}H_{28}O_3$ (292.42). **Pharm:** Cytotoxic inactive (*in vitro*, HL-60, IC₅₀ > 100 μg/mL; Bel7402, IC₅₀ > 100 μg/mL; HeLa, IC₅₀ > 100 μg/mL; U937, IC₅₀ > 100 μg/mL; control Colchicine, HL-60, IC₅₀ = 1.6 μg/mL; Bel7402, IC₅₀ = 0.4 μg/mL; HeLa, IC₅₀ = 0.1 μg/mL; U937, IC₅₀ = 0.1 μg/mL)^[4746]. **Source:** LA ZHU GUO *Aegiceras corniculatum* (stem and twig: yield = 0.00005%). **Ref:** 4746.

**4988 Deidaclin**

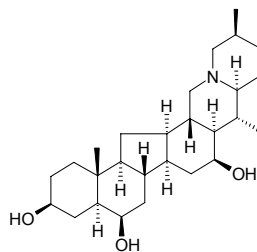
$C_{12}H_{17}NO_6$ (198.22). **Pharm:** Toxin. **Source:** GE YANG XI FAN LIAN *Passiflora coriacea*. **Ref:** 658.

**4989 Deisobutyryl bakkenolide H**

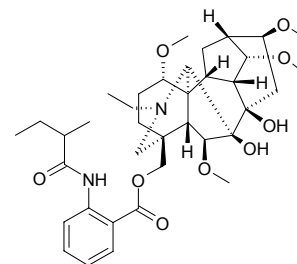
$C_{19}H_{28}O_5$ (336.45). Colorless needles (MeOH), mp 178–180°C, $[\alpha]_D^{20} = -93.0^\circ$ ($c = 0.365$, MeOH). **Pharm:** Platelet aggregation inhibitor (100 μmol/L AA-induced, 100 μg/mL, InRt = (91.7±6.8)%, $p < 0.001$, control Aspirin, 50 μg/mL, InRt = (100±0.0)%); 10 μg/mL collagen-induced, 100 μg/mL, InRt = (85.5±13.0)%, $p < 0.001$, Aspirin, 50 μg/mL, InRt = (12.2±1.7)%); 2 nmol/L PAF-induced, 100 μg/mL, InRt = (21.0±1.7)%, $p < 0.001$, Aspirin, 50 μg/mL, InRt = (9.6±1.2)%); 0.1 μg/mL thrombin-induced, 100 μg/mL, InRt = (-1.1±1.1)%). **Source:** TAI WAN FENG DOU CAI *Petasites formosanus*. **Ref:** 2377.

**4990 Delafrine**

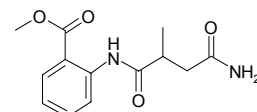
$C_{27}H_{45}NO_3$ (431.66). **Source:** XI BEI MU *Fritillaria imperialis* (bulb). **Ref:** 4217.

**4991 Delajacine**

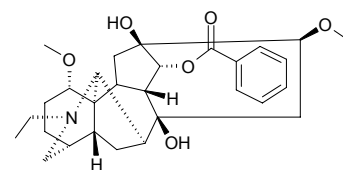
$C_{37}H_{54}N_2O_9$ (670.85). White amorphous powder. **Source:** QIN LING CUI QUE HUA *Delphinium giraldii*. **Ref:** 2506.

**4992 Delamide**

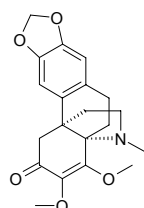
$C_{13}H_{16}N_2O_4$ (274.28). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**4993 Delavaconitine**

[1356-52-1] $C_{29}H_{39}NO_6$ (497.64). mp 59–64°C, $[\alpha]_D^{17} = -9.56^\circ$; nitrate: mp 154°C; perchlorate: mp 241°C; picrolonate: mp 241°C; chloraurate: mp 215°C. **Pharm:** Analgesic; local anesthetic; LD (rbt, iv) = 5–10 mg/kg, (dog, iv) = 10–12 mg/kg; LD₅₀ (mus, sc) = 106 mg/kg, (mus, iv) = 28 mg/kg. **Source:** MA ER SHAN WU TOU *Aconitum delavayi*. **Ref:** 661.

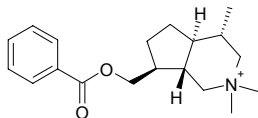
**4994 Delavaine**

[27989-72-6] $C_{20}H_{23}NO_5$ (357.41). mp 140–150°C. **Source:** DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*]. **Ref:** 1521.

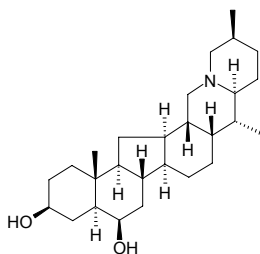


4995 Delavayine A

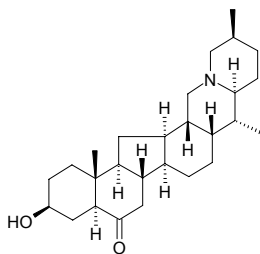
$C_{19}H_{28}NO_2$ (302.44). Yellow powder, $[\alpha]_D^{22} = -5.1^\circ$ ($c = 0.90$, C_5H_5N). **Pharm:** Antinociceptive (acetic acid-induced, 50mg/kg, sc, inhibitive percent = 45%; control Aminopyrine, 50mg/kg, orl, inhibitive percent = 87%, 50mg/kg, sc, inhibitive percent = 94%). **Source:** MA TONG HUA *Incarvillea arguta*. **Ref:** 3908.

**4996 Delavine**

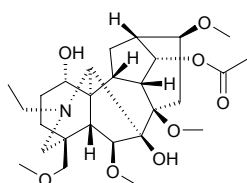
[98243-57-3] $C_{27}H_{45}NO_2$ (415.67). Colorless needles (EtOH), mp 179~182°C (dec), $[\alpha]_D^{25} = -17.2^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** cAMP phosphodiesterase inhibitor ($IC_{50} = 88\mu\text{mol/L}$); AChE inhibitor ($IC_{50} = (105.5 \pm 1.5)\mu\text{mol/L}$, control Eserine, $IC_{50} = (0.41 \pm 0.01)\mu\text{mol/L}$)^[4217], butyrylcholinesterase (BChE) inhibitor ($IC_{50} = (1.71 \pm 0.11)\mu\text{mol/L}$, control Eserine, $IC_{50} = (0.857 \pm 0.008)\mu\text{mol/L}$)^[4217]. **Source:** LENG SHA BEI MU *Fritillaria delavayi*, XI BEI MU *Fritillaria imperialis* (bulb). **Ref:** 2, 660, 1755, 4217.

**4997 Delavinone**

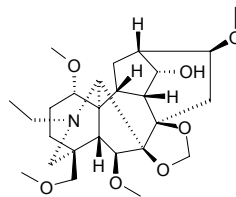
[96997-98-7] $C_{27}H_{43}NO_2$ (413.65). **Source:** LENG SHA BEI MU *Fritillaria delavayi*, GAN SU BEI MU *Fritillaria przewalskii*. **Ref:** 2, 660.

**4998 Delbonine**

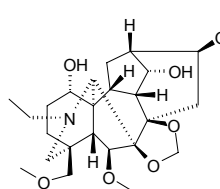
[95066-33-4] $C_{27}H_{43}NO_8$ (509.65). Amorphous solid, $[\alpha]_D^{25} = +35.3^\circ$ ($c = 0.8$, $CHCl_3$). **Source:** CHUAN QIAN CUI QUE HUA *Delphinium bonvalotii*, DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). **Ref:** 1521, 4283.

**4999 Delbruline**

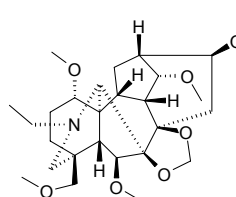
[106982-82-5] $C_{26}H_{41}NO_7$ (479.62). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5000 Delbrunine**

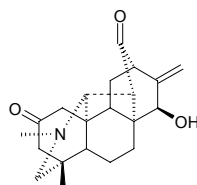
[106982-83-6] $C_{25}H_{39}NO_7$ (465.59). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5001 Delbrusine**

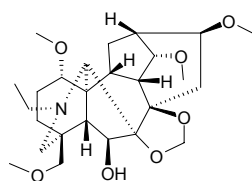
[76971-31-8] $C_{27}H_{43}NO_7$ (493.65). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5002 Delcarduchol**

$C_{21}H_{27}NO_3$ (341.45). **Source:** *Delphinium carduchorum*. **Ref:** 2288.

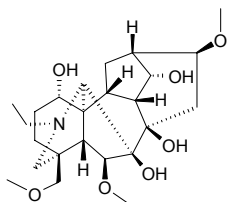
**5003 Delcorine**

[52358-55-1] $C_{26}H_{41}NO_7$ (479.62). **Pharm:** Inhibits intestinal contraction (rat and rbt, *in vitro*); inhibits respiration; uterine relaxant (gpg); antihypertensive. **Source:** GUANG FEI YAN CAO *Delphinium corumbosum*. **Ref:** 658.

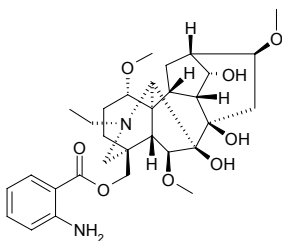


5004 Delcosine

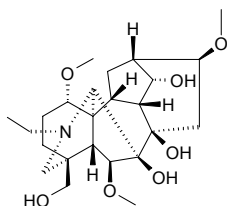
Delphamine [545-56-2] $C_{24}H_{39}NO_7$ (453.58). mp 203~204°C. **Pharm:** Antihypertensive (anesthetic, cat, 10mg/kg); toxin (poikilotherms). **Source:** FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], QIANG GU FEI YAN CAO *Delphinium consolida*, XIAO CAO WU *Delphinium yunnanense*. **Ref:** 6, 16, 658.

**5005 Delectine**

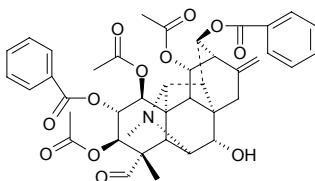
[58485-71-5] $C_{31}H_{44}N_2O_8$ (572.70). White amorphous powder. **Source:** E MEI CUI QUE HUA *Delphinium omeiense*. **Ref:** 2190.

**5006 Delectinine**

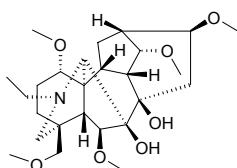
[58480-82-3] $C_{24}H_{39}NO_7$ (453.58). White amorphous powder. **Source:** E MEI CUI QUE HUA *Delphinium omeiense*. **Ref:** 2190.

**5007 Delgrandine**

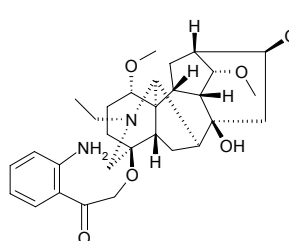
$C_{41}H_{43}NO_{12}$ (741.80). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5008 Delphatine**

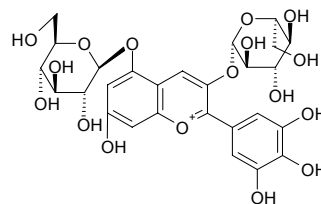
[25488-62-4] $C_{26}H_{43}NO_7$ (481.64). **Pharm:** Anti-inflammatory (modified assay of Berridge, 100µg/mL, InRt = 17.39%^[5271]), tyrosinase inhibitor inactive (control Kojic acid, IC_{50} = (16.67±0.52)µmol/L, *L*-Mimosine, IC_{50} = (3.68±0.02)µmol/L^[5271]); antioxidant (DPPH scavenger, 1µmol/L, ScRt = 55.4%; control *3-t*-Butyl-4-hydroxyanisole, 1µmol/L, ScRt = 92.5%^[5271]). **Source:** FU ZI *Aconitum carmichaeli*, *Aconitum leave* (aerial parts). **Ref:** 16, 5271.

**5009 Delphicrispuline**

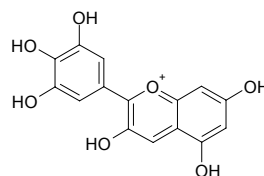
Neofinaconitine $C_{30}H_{42}N_2O_6$ (526.68). $[\alpha]_D^{20} = +23.8^\circ$ ($c = 0.8$, $CHCl_3$) **Source:** GAN WAN WU TOU *Aconitum finetianum*, TU ER QI CUI QUE HUA *Delphinium crispulum*. **Ref:** 1913, 2690.

**5010 Delphin**

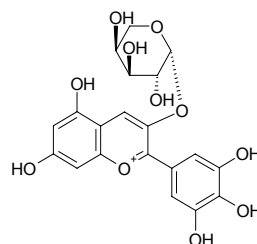
Delphinidin-3,5-diglucoside [17670-06-3] $C_{27}H_{31}O_{17}^+$ (627.54). **Source:** BAI FAN DOU *Phaseolus vulgaris*, FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], MU XU *Medicago sativa*, QIE ZI *Solanum melongena*, YA ZHI CAO *Commelina communis*. **Ref:** 6.

**5011 Delphinidin**

Delphinidol $C_{15}H_{11}O_7^+$ (303.25). **Pharm:** Pigment; leukocyte elastase MMP-2/9 inhibitor^[4416]. **Source:** BU XUE CAO *Limonium gmelinii*, FENG XIAN HUA *Impatiens balsamina*, PU⁽³⁾ TAO *Syzygium jambos*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*]. **Ref:** 6, 658, 4416.

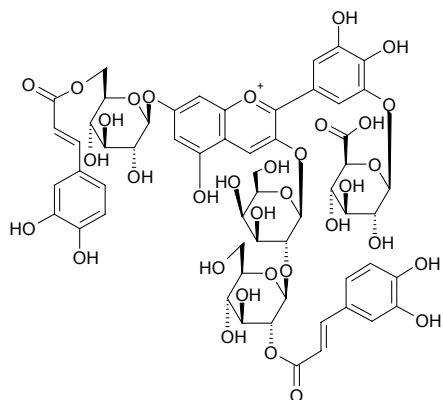
**5012 Delphinidin-3-arabinoside**

[28500-01-8] $C_{20}H_{19}O_{11}^+$ (435.37). **Source:** ZI WEI HUA *Lagerstroemia indica*. **Ref:** 6.



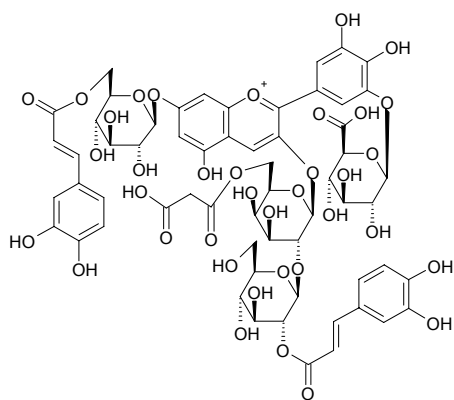
5013 Delphinidin-3-O-[2-O-(2-O-(trans-caffeoyl)-β-D-glucopyranosyl)-β-D-galactopyranoside]-7-O-[6-O-(trans-caffeoyl)-β-D-glucopyranoside]-3'-O-[β-D-glucuronopyranoside]

C₅₇H₆₁O₃₄⁺ (1290.10). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



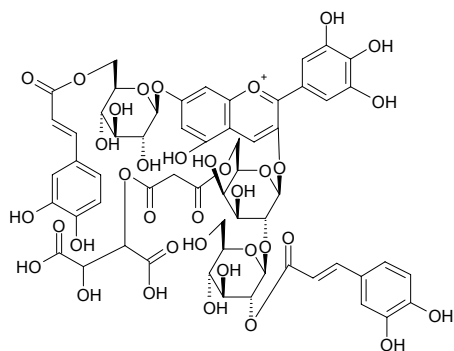
5014 Delphinidin-3-O-[2-O-(2-O-(trans-caffeoyl)-β-D-glucopyranosyl)-6-O-(malonyl)-β-D-galactopyranoside]-7-O-[6-O-(trans-caffeoyl)-β-D-glucopyranoside]-3'-O-[β-D-glucuronopyranoside]

C₆₀H₆₃O₃₇⁺ (1376.15). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



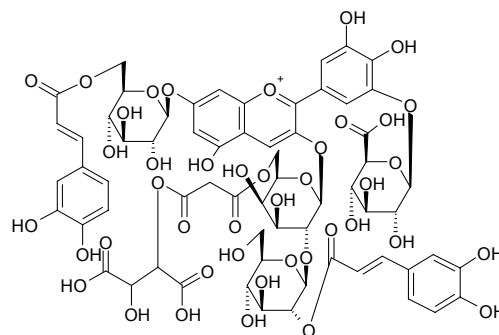
5015 Delphinidin-3-O-[2-O-(2-O-(trans-caffeoyl)-β-D-glucopyranosyl)-6-O-(2-O-(tartaryl)malonyl)-β-D-galactopyranoside]-7-O-[6-O-(trans-caffeoyl)-β-D-glucopyranoside]

C₅₈H₅₉O₃₆⁺ (1332.10). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



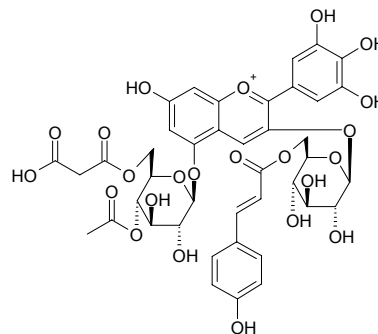
5016 Delphinidin-3-O-[2-O-(2-O-(trans-caffeoyl)-β-D-glucopyranosyl)-6-O-(2-O-(tartaryl)malonyl)-β-D-galactopyranoside]-7-O-[6-O-(trans-caffeoyl)-β-D-glucopyranoside]-3'-O-[β-D-glucuronopyranoside]

C₆₄H₆₇O₄₂⁺ (1508.22). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



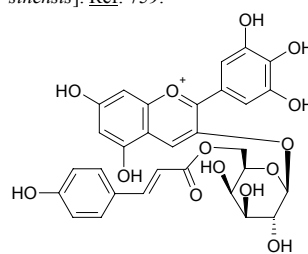
5017 Delphinidin-3-O-[6-O-(p-coumaroyl)-β-D-glucopyranoside]-5-O-[4-O-acetyl-6-O-malonyl-β-D-glucopyranoside]

C₄₁H₄₁O₂₃⁺ (901.77). Source: *Salvia uliginosa*. Ref: 2367.



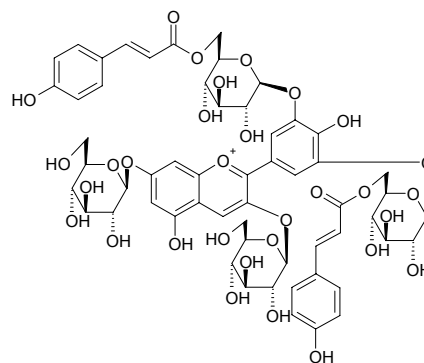
5018 Delphinidin-3-O-β-D-(6-(E)-p-coumaroyl) galactopyranoside

C₃₀H₂₇O₁₄⁺ (611.54). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 759.



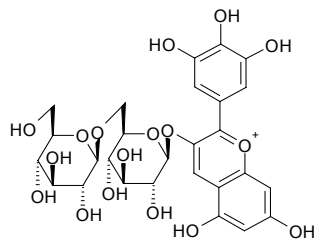
5019 Delphinidin-3,7-di-O-β-glucopyranoside-3',5'-di-O-(6-O-p-coumaroyl)-β-glucopyranoside

C₅₇H₆₃O₃₁⁺ (1244.12). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

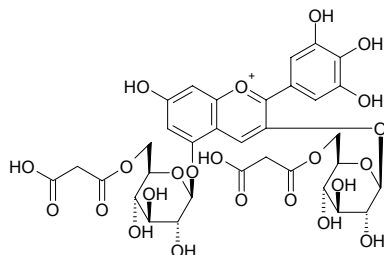


5020 Delphinidin-3-diglucoside

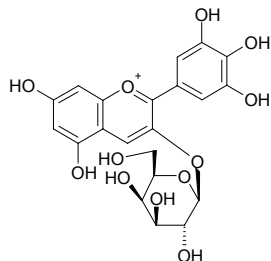
$C_{27}H_{31}O_{17}^+$ (627.54). Source: SHUI HU LU *Eichhornia crassipes*. Ref: 6.

**5021 Delphinidin-3,5-di-O-(6-O-malonyl-β-D-glucoside)**

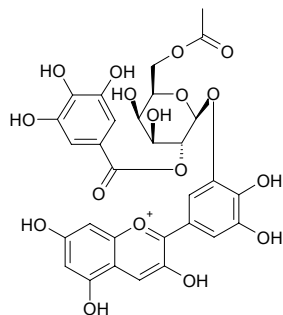
$C_{33}H_{35}O_{23}^+$ (799.63). Source: JU QU *Cichorium intybus*. Ref: 1955.

**5022 Delphinidin-3-O-β-D-galactopyranoside**

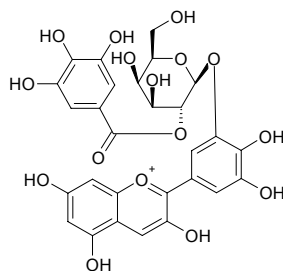
Empetrin [68852-84-6] $C_{21}H_{21}O_{12}^+$ (465.39). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 759.

**5023 Delphinidin-3'-O-(2''-O-galloyl-6''-O-acetyl-β-galactopyranoside)**

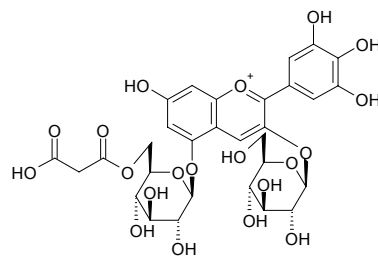
$C_{30}H_{27}O_{17}^+$ (659.54). Source: LAN SHUI LIAN *Nymphaea caerulea*. Ref: 1863.

**5024 Delphinidin-3'-O-(2''-O-galloyl-β-galactopyranoside)**

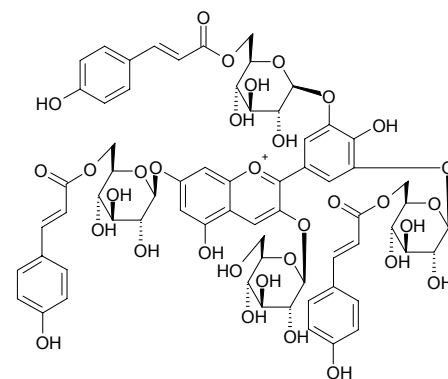
$C_{28}H_{25}O_{16}^+$ (617.50). Source: LAN SHUI LIAN *Nymphaea caerulea*. Ref: 1863.

**5025 Delphinidin-3-O-(β-D-glucopyranoside)-5-O-(6-O-malonyl-β-D-glucopyranoside)**

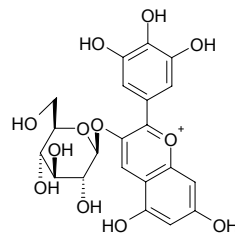
$C_{30}H_{33}O_{20}^+$ (713.59). Source: HE LAN ZHONG ZHI FAN HONG HUA *Crocus antalyensis* cv. Ref: 1897.

**5026 Delphinidin-3-O-β-D-glucopyranoside-7,3',5'-tri-O-(6-O-p-coumaroyl-β-glucopyranoside)**

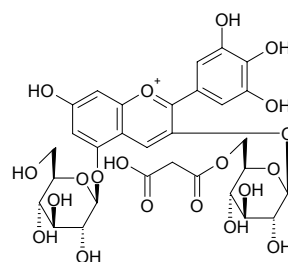
$C_{66}H_{69}O_{33}^+$ (1390.27). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

**5027 Delphinidin-3-glucoside**

[6906-38-3] $C_{21}H_{21}O_{12}^+$ (465.39). Source: BAI FAN DOU *Phaseolus vulgaris*, HEI DA DOU PI *Glycine max*, QIE ZI *Solanum melongena*. Ref: 6.

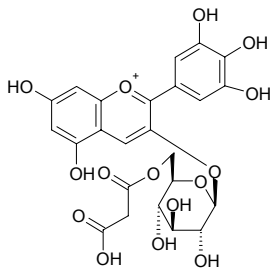
**5028 Delphinidin-3-O-(6-O-malonyl-β-D-glucoside)-5-O-β-D-glucoside**

$C_{30}H_{33}O_{20}^+$ (713.59). Source: JU QU *Cichorium intybus*. Ref: 1955.

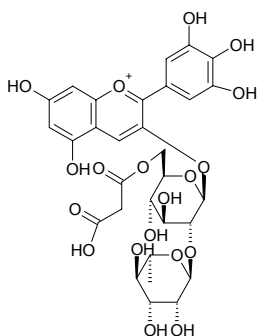


5029 Delphinidin-3-neohesperidoside

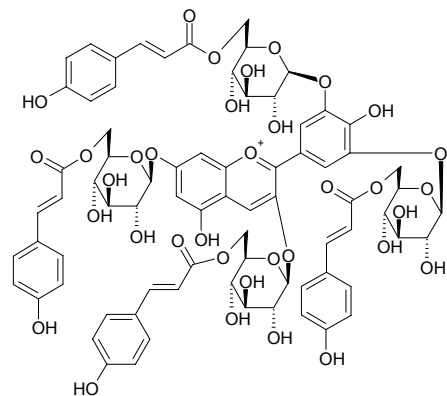
$C_{24}H_{23}O_{15}$ (551.44). Dark red amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea* (petal). Ref: 3480.

**5030****Delphinidin-3-O-(2''-O- α -rhamnosyl-6''-O-malonyl)- β -glucoside**

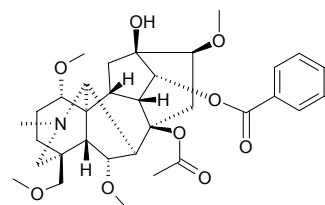
$C_{30}H_{33}O_{19}$ (697.59). Dark red amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea* (petal). Ref: 3480.

**5031****Delphinidin-3,7,3',5'-tetra-O-(6-O-*p*-coumaroyl)- β -glucopyranoside**

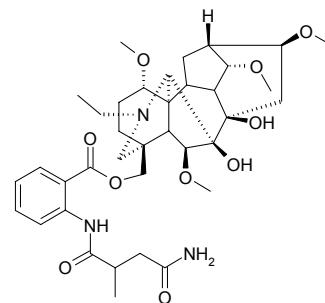
$C_{75}H_{75}O_{35}$ (1536.41). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

**5032 Delphinine**

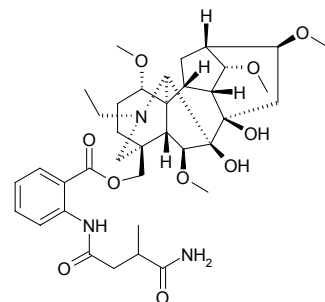
[561-07-9] $C_{33}H_{45}NO_9$ (599.73). Pharm: Inhibits respiration; similar action with aconitine. Source: SI TA WEI CUI QUE HUA *Delphinium staphisagria*. Ref: 658.

**5033 Delsemine A**

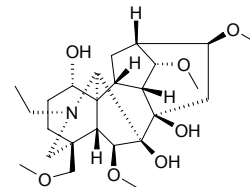
$C_{37}H_{53}N_3O_{10}$ (699.85). $[\alpha]_D^{30} = +368^\circ$ ($c = 0.7$, $CHCl_3$). Source: E MEI CUI QUE HUA *Delphinium omeiense*, FU ZI *Aconitum carmichaeli*. Ref: 16, 2190.

**5034 Delsemine B**

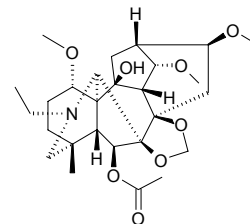
$C_{37}H_{53}N_3O_{10}$ (699.85). $[\alpha]_D^{30} = +28.2^\circ$ ($c = 0.6$, $CHCl_3$). Source: E MEI CUI QUE HUA *Delphinium omeiense*, FU ZI *Aconitum carmichaeli*. Ref: 16, 2190.

**5035 Delsoline**

[509-18-2] $C_{25}H_{41}NO_7$ (467.61). mp 213.0~216.5°C. Pharm: Causes paroxysm convulsion and breath inhibition (mus, administration by non-intestinal tract); insecticidal; antihypertensive (anesthetic cat and dog, 5~15mg/kg); smooth muscle relaxant. Source: E MEI CUI QUE HUA *Delphinium omeiense*, FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], GAN WAN WU TOU *Aconitum finetianum*, QIANG GU FEI YAN CAO *Delphinium consolida*, SHAN DI WU TOU *Aconitum monticola*. Ref: 6, 658, 2190.

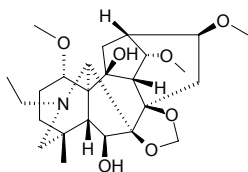
**5036 Deltaline**

[6836-11-9] $C_{27}H_{41}NO_8$ (507.63). Pharm: Antispasmodic; antihypertensive (rat, iv, 20mg/kg). Source: FU ZI *Aconitum carmichaeli*, GAO FEI YAN CAO *Delphinium elatum*, WANG GUO CUI QUE HUA *Delphinium dictyocarpum*, XI FANG CUI QUE HUA *Delphinium occidentale*, YI LI CUI QUE HUA *Delphinium iliense*. Ref: 16, 658.

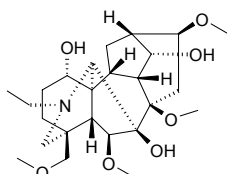


5037 Deltamine

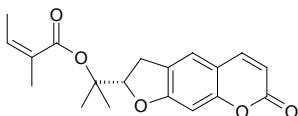
[6836-10-8] C₂₅H₃₉NO₇ (465.59). Source: FU ZI *Aconitum carmichaeli*.
Ref: 16.

**5038 Deltatsine**

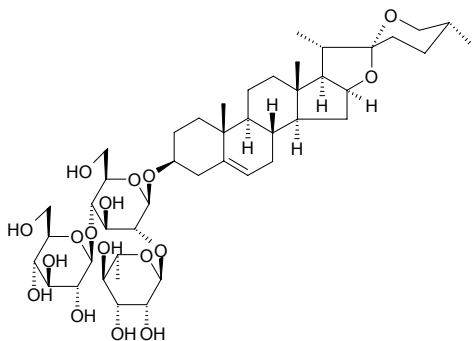
[92631-66-8] C₂₅H₄₁NO₇ (467.61). Amorphous powder, +1H₂O, [α]_D²⁰ = +28.6° (c = 2.4, EtOH). Source: E MEI CUI QUE HUA *Delphinium omeiense*, KANG DING CUI QUE HUA *Delphinium tatsienense*. Ref: 1521, 2190.

**5039 Deltoin**

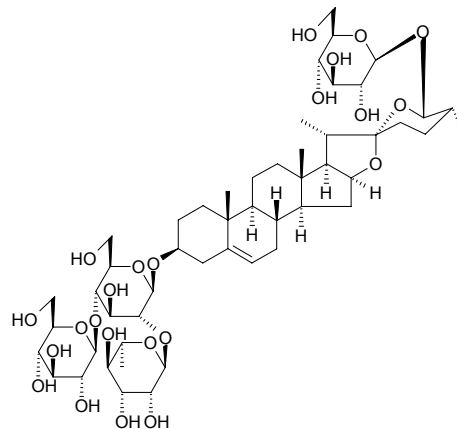
[19662-71-6] C₁₉H₂₀O₅ (328.37). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], YUN QIAN HU *Peucedanum rubricaulis*. Ref: 2, 177.

**5040 Deltonin**

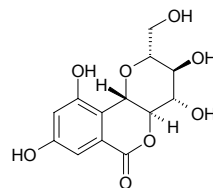
Trilloside A [55659-75-1] C₄₅H₇₂O₁₇ (885.07). mp 290~292°C. Pharm: Raw material for partial synthesis of steroid hormone (its aglucon is used); phosphatase inhibitor (HeLa cell stimulated by TPA and joined by ³²P)^[2165]. Source: SAN JIAO YE SHU YU *Dioscorea deltoidea*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], XIAO HUA DUN YE SHU YU *Dioscorea parviflora*, YU ER QI *Trillium camtschaticum*, ZA JIAO BAI HE *Lilium speciosum* x *L. nobilissimum*. Ref: 6, 10, 658, 2165.

**5041 Deltoside**

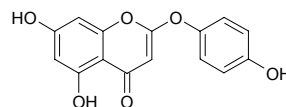
C₅₁H₈₂O₂₃ (1063.21). Pharm: Raw material for partial synthesis of steroid hormone (its diosgenin is used). Source: SAN JIAO YE SHU YU *Dioscorea deltoidea*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*. Ref: 10.

**5042 Demethoxybergenin**

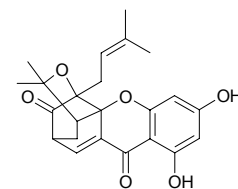
C₁₃H₁₅O₈ (298.25). Colorless needles, mp 305°C (dec., MeOH), [α]_D²⁰ = -22.7° (c = 0.08, MeOH). Pharm: Cytotoxic inactive (murine breast cancer cell line FM3A, 100μmol/L). Source: YOU SE ZI JIN NIU *Ardisia colorata* (fruit). Ref: 4244.

**5043 6-Demethoxycapillarisin**

C₁₅H₁₀O₆ (286.24). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**5044 Demethoxy-cochinchinone D**

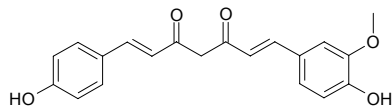
C₂₃H₂₄O₆ (396.44). Pharm: Antioxidant inactive (DPPH scavenger, 50μmol/L, ScRt = 5.2%; control BHT, 50μmol/L, ScRt = 51.7%, IC₅₀ = 28.9μmol/L)^[4423]. Source: HUANG NIU MU *Cratoxylum cochinchinense* (root). Ref: 4423.



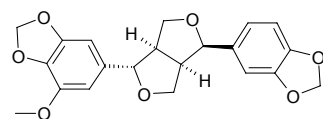
5045 Demethoxycurcumin

1-(4-Hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-1,6-heptadiene-3,5-dione C₂₀H₁₈O₅ (338.36). Yellow needles, mp 180–181°C. **Pharm:**

Neuroprotective (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), ED₅₀ = (4.0±0.5)μg/mL; anti- β A(1-41), ED₅₀ = (5.0±0.5)μg/mL; control Congo red: anti- β A(25-35), ED₅₀ = (37.5±5.4)μg/mL; anti- β A(1-41), ED₅₀ = (39.2±5.2)μg/mL). **Source:** JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.0012%dw). **Ref:** 4643.

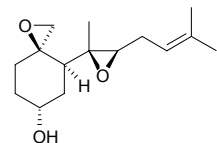
**5046 (+)-5'-Demethoxyepixelsin**

C₂₁H₂₀O₇ (384.39). Colorless crystals (Me₂CO), [α]_D²⁰ = +116.3° (c = 1.35, CHCl₃) **Source:** DIE DA LAO *Litsea verticillata*. **Ref:** 1984.

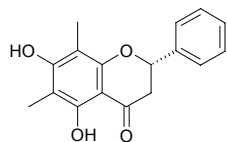
**5047 5-Demethoxyfumagillol**

(3*R*,4*R*,6*R*)-4-[(2*R*,3*R*)-2-Methyl-3-(3-methyl-but-2-enyl)-oxiranyl]-1-oxa-spiro[2,5]octan-6-ol C₁₅H₂₄O₃ (252.36). Colorless oil. **Pharm:**

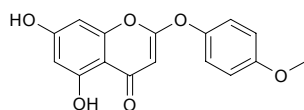
Anti-angiogenic (angiogenesis inhibitor, calf CPAE cell, IC₅₀ = 7.06μmol/L, control TNP-470, IC₅₀ = 0.0011μmol/L, mus L5178Y cell, IC₅₀ > 39.6μmol/L, control TNP-470, IC₅₀ > 24.5μmol/L). **Source:** YAN QU MEI *Aspergillus fumigatus*. **Ref:** 4061.

**5048 Demethoxymatteucinol**

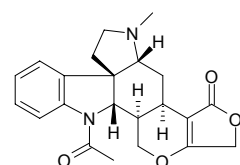
C₁₇H₁₆O₄ (284.31). [α]_D²⁵ = -48.1° (c = 0.52, acetone). **Source:** YANG PU TAO YE *Syzygium samarangense*. **Ref:** 4100.

**5049 6-Demethoxy-4'-methoxycapillarisin**

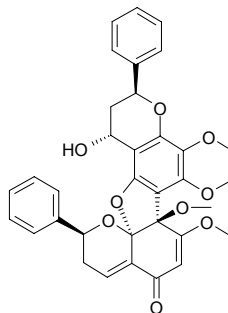
C₁₆H₁₂O₆ (300.27). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**5050 11-Demethoxymyrtoidine**

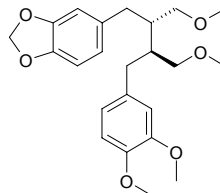
C₂₂H₂₄N₂O₄ (380.45). Crystals (EtOAc-*n*-hexane), mp 237–240°C, [α]_D²⁰ = -28.9° (c = 0.4, CH₂Cl₂). **Source:** *Strychnos myrtoides*. **Ref:** 2297.

**5051 6''-Demethoxyneocalyopteron**

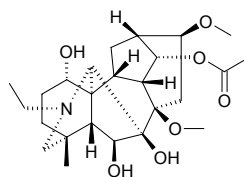
C₃₄H₃₂O₉ (584.63). Pale amorphous solid, mp 157–159°C (Et₂O-petrol), [α]_D²⁰ = -199.14° (c = 0.350). **Source:** E CHI TENG *Calycopteris floribunda* (green part). **Ref:** 3779.

**5052 5-Demethoxyniranthin**

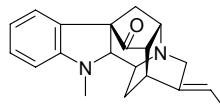
C₂₃H₃₀O₆ (402.49). White amorphous solid, [α]_D²⁵ = +15.4° (c = 0.19). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**5053 18-Demethoxypubescenine**

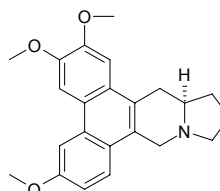
C₂₃H₃₀NO₇ (465.59). Amorphous solid, [α]_D²⁵ = +1.1° (c = 0.4, CHCl₃). **Source:** DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). **Ref:** 4283.

**5054 Demethoxypurpeline**

C₂₀H₂₂N₂O (306.41). Yellow amorphous solid **Source:** BA XI LUO FU MU *Rauwolfia bahiensis*. **Ref:** 1952.

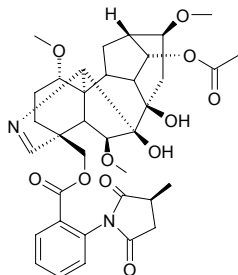
**5055 7-Demethoxytylophorine**

Antofine C₂₃H₂₅NO₃ (363.46). Yellow needles (MeOH-CHCl₃), [α]_D²⁶ = -115.30° (c = 0.477, CHCl₃); colorless gum, [α]_D²¹ = -58.3° (c = 0.11, CHCl₃). **Pharm:** Cytotoxic (inhibits growth of hmn cancer cells, hmn lung cancer cells A549, IC₅₀ = (7.0±0.2)ng/mL, control Ellipticine, IC₅₀ = (500±25)ng/mL; hmn colon cancer cells Col2, IC₅₀ = (8.6±0.3)ng/mL, Ellipticine, IC₅₀ = (340±35)ng/mL; action mechanism is to arrest in the G2/M phase of cell cycle)^[5342]. **Source:** NIU XIN PIAO ZI *Cynanchum komarovii*, XU CHANG QING *Cynanchum paniculatum* (root). **Ref:** 2206, 5342.

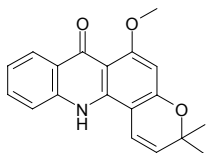


5056 14-Demethyl-14-acetylanhweidelphinine

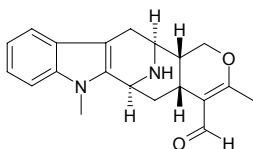
$C_{36}H_{44}N_2O_{11}$ (680.76). Amorphous, $[\alpha]_D^{25} = +67.1^\circ$ ($c = 0.16$, $CHCl_3$).
 Source: WU ZHU FEI YAN CAO *Delphinium pentagynum* (aerial parts).
 Ref: 3831.

**5057 N-Demethyl-acronycine**

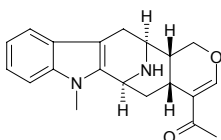
[13255-08-8] $C_{19}H_{17}NO_3$ (307.35). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**5058 N(4)-Demethylalstonerinal**

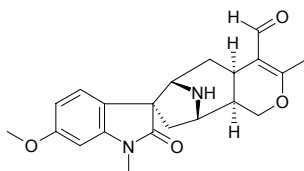
$C_{20}H_{22}N_2O_2$ (322.41). Source: XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). Ref: 3780.

**5059 N(4)-Demethylalstonerine**

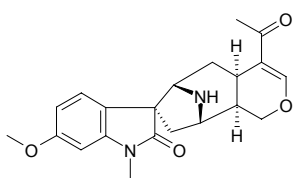
$C_{20}H_{22}N_2O_2$ (322.41). Source: XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). Ref: 3780.

**5060 N(4)-Demethylalstophyllal oxindole**

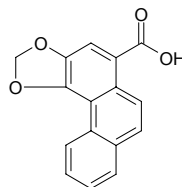
$C_{21}H_{24}N_2O_4$ (368.44). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.00001%). Ref: 3020.

**5061 N(4)-Demethylalstophylline oxindole**

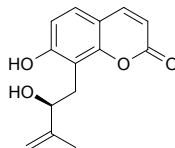
$C_{21}H_{24}N_2O_4$ (368.44). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.00003%). Ref: 3020.

**5062 Demethylaristofolin E**

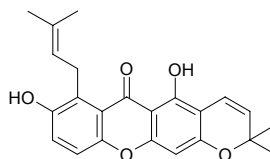
3,4-Methylenedioxyphenanthrene-1-carboxylic acid $C_{16}H_{10}O_4$ (266.26). Yellow crystalline solid ($CHCl_3/(CH_3)_2CO$), mp 256~258°C. Pharm: Anti-HIV inactive (*in vitro*, acutely infected H-9 lymphocyte cells)^[4706]; cytotoxic inactive (*in vitro*, MCF7 and A549). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00083%). Ref: 4706.

**5063 Demethylaurapteneol**

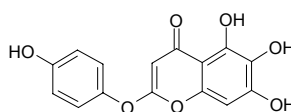
(S)-(-)-7-Hydroxy-8-(2-hydroxy-3-methyl-3-butenyl)-2H-1-benzopyran-2-one $C_{14}H_{14}O_4$ (246.27). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500(mol ratio/32 pmol TPA): EBV-EA-positive cells = (15.3±1.6)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 207$ (mol ratio/32 pmol TPA), β -Carotene, $IC_{50} = 400$ (mol ratio/32 pmol TPA), Curcumin, $IC_{50} = 341$ (mol ratio/32 pmol TPA))^[5048]. Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00016%dw), *Citrus hassaku*. Ref: 4722, 5048.

**5064 Demethylcalabaxanthone**

1,7-Dihydroxy-8-(3-methylbut-2-enyl)-6',6'-dimethylpyrano(2',3':3,2)-xanthone $C_{23}H_{22}O_5$ (378.43). Pharm: Cytotoxic (KB cancer cell lines, $IC_{50} = 10.9\mu g/mL$, control Ellipticine, $IC_{50} = 1.33\mu g/mL$; BC-1, $IC_{50} = 2.85\mu g/mL$, Ellipticine, $IC_{50} = 1.46\mu g/mL$; NCI-H187, $IC_{50} = 3.13\mu g/mL$ Ellipticine, $IC_{50} = 0.39\mu g/mL$)^[1619]; antitubercular (*Mycobacterium tuberculosis*, MIC = 12.5 $\mu g/mL$)^[4358]. Source: DAO NIAN ZI *Garcinia mangostana* (unripe fruit: yield = 0.0068%dw)^[1619]. Ref: 1619, 4358.

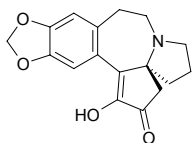
**5065 6-Demethylcapillarisin**

$C_{15}H_{10}O_7$ (302.24). Yellow needles, mp 272~274°C. Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (bud). Ref: 4815.

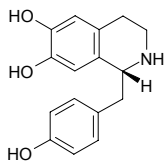


5066 Demethylcephalotaxinone

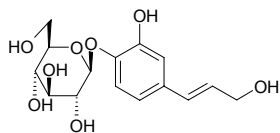
$C_{17}H_{17}NO_4$ (299.33). Source: HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manii*], SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00020%)^[4675], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. Ref: 2, 660, 4675.

**5067 Demethylcoclaurine**

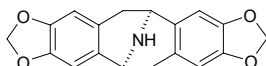
Higenamine [5843-65-2] $C_{16}H_{17}NO_3$ (271.32). mp 260~262°C. Pharm: Enhances cardiac motility; raises heart rate; antiasthmatic (gpg, asthma caused by histamine, bronchial smooth muscle relaxant); treatment of chronic arrhythmia; coronary, cerebral and peripheral vasodilator. Source: FU ZI *Aconitum carmichaeli*, LIAN ZI *Nelumbo nucifera*, XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*], RI BEN WU TOU *Aconitum japonicum*, WU TOU *Aconitum carmichaeli*. Ref: 2, 4, 658, 1521, 5501.

**5068 Demethyl coniferin**

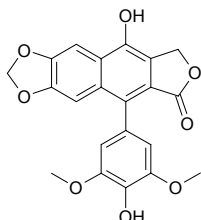
$C_{15}H_{20}O_8$ (328.32). White powder. Source: SHAN TONG ZI *Idesia polycarpa*. Ref: 2494.

**5069 (-)-N-Demethylerychine**

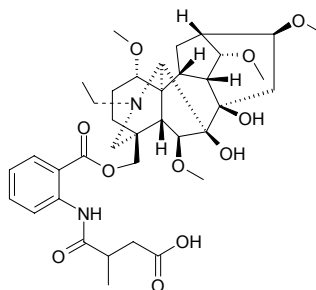
$C_{18}H_{15}NO_4$ (309.32). Yellow powder (acetone), $[\alpha]_D^{20} = -74.3^\circ$ ($c = 0.02$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**5070 4'-Demethyldehydropodophyllotoxin**

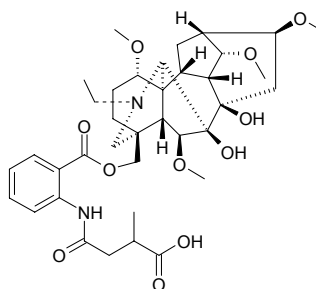
$C_{21}H_{16}O_8$ (396.36). White needles, mp > 320°C. Source: LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*]. Ref: 4801.

**5071 Demethyldelavaine A**

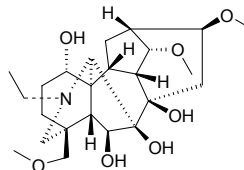
$C_{37}H_{52}N_2O_{11}$ (700.83). Source: FU ZI *Aconitum carmichaeli*. Ref: 16.

**5072 Demethyldelavaine B**

$C_{37}H_{52}N_2O_{11}$ (700.83). Source: FU ZI *Aconitum carmichaeli*. Ref: 16.

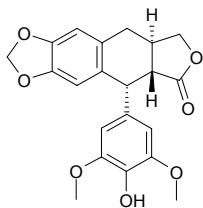
**5073 6-Demethyldeisoline**

$C_{24}H_{39}NO_7$ (453.58). Colorless massive crystals, mp 202~204°C. Source: ZI HUA GAO WU TOU *Aconitum excelsum*. Ref: 689.

**5074 4'-Demethyldeoxypodophyllotoxin**

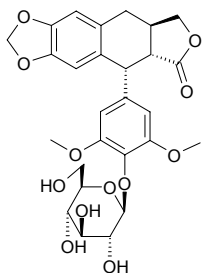
4-Demethyl-deoxypodophyllotoxin $C_{21}H_{20}O_7$ (384.39). Colorless lamellar crystals, mp 246~248°C, $[\alpha]_D^{20} = -127.3^\circ$ ($c = 0.11$, $CHCl_3$). Pharm: Antineoplastic (P₃₈₈); antimitotic; cytotoxic (KB, ED₅₀ = 0.0012μg/mL); cytotoxic (KB, IC₅₀ = 17.7ng/mL, control Vinblastine, IC₅₀ = 9.7ng/mL; LNCaP, IC₅₀ = 10.0ng/mL, Vinblastine, IC₅₀ = 10.5ng/mL; Col2, IC₅₀ = 23.1ng/mL, Vinblastine, IC₅₀ = 8.1ng/mL)^[5336]. Source: BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*] (rhizome: content = 0.0089%)^[5508], BI LIN BA JIAO LIAN *Dysosma furfuracea* (rhizome: mean content in different seasons = 0.75%)^[5508], CHONG MING BA JIAO LIAN *Dysosma subrosea* (rhizome: content = 0.020%)^[5508], CHUAN BA JIAO LIAN *Dysosma veitchii* (rhizome: content = 0.0092%)^[5508], DA XIAN YUAN ZHI *Polygala macradenia*, GUANG XI BA JIAO LIAN *Dysosma guangxiensis* (rhizome: content = 0.0042%)^[5508], GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*] (rhizome: content = 0.15%)^[5508], LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.076%)^[5508], LUN SHENG SHAN XIANG *Hyptis verticillata*, PEI NI YUAN ZHI *Polygala paenea*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome: mean

content of 3 origins = 0.46%^[5508]), WO ER QI *Diphylleia sinensis* (rhizome: content = 0.56%^[5508]), XI MA LA YA YUAN ZHI *Polygala emodi*, XIAO BA JIAO LIAN *Dysosma difformis* (rhizome: content = 0.0031%^[5508]), YUE NAN LIE LAN *Bursera tonkinensis* (root), ZU YE CAO *Polygala peltatum*. Ref: 661, 3543, 5336, 5508.



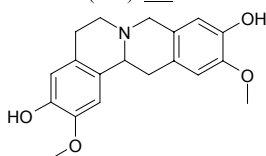
5075 4'-Demethyldeoxypodophyllotoxin-4-O-β-D-glucoside

C₂₇H₃₀O₁₂ (546.53). [α]_D²⁰ = +20.6° (c = 0.14, CHCl₃). Pharm: Cytotoxic inactive (100μg/mL: KB, LNCaP, and Col2 cells). Source: YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 5336.



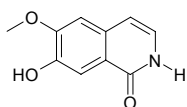
5076 (-)-10-O-Demethyldiscretine

C₁₉H₂₁NO₄ (327.38). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (root). Ref: 3083.



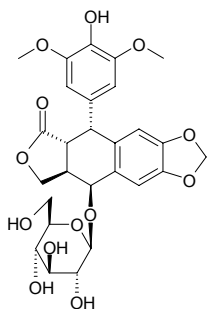
5077 N-Demethyldoryphornine

7-Hydroxy-6-methoxy-1(2H)-isoquinolinone C₁₀H₉NO₃ (191.19). Colorless rods (MeOH), mp 257~259°C. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3792.



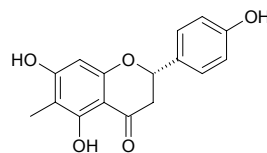
5078 4-Demethylepipodophyllotoxin 7'-O-β-D-glucopyranoside

C₂₇H₃₀O₁₃ (562.53). White needles, [α]_D¹⁵ = -29.3° (c = 0.63, MeOH). Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 4142.



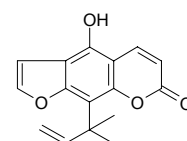
5079 8-Demethylfarrerol

C₁₆H₁₄O₅ (286.29). mp 267~270°C. Source: MAN SHAN HONG *Rhododendron dauricum*. Ref: 6, 507.



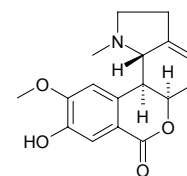
5080 Demethylfuropinnarin

C₁₆H₁₄O₄ (270.29). Source: JU MAO LEI A WEI *Ferulago capillaries* (aerial parts), QIANG HUO *Notopterygium incisum*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*]. Ref: 2, 325, 660, 3938.



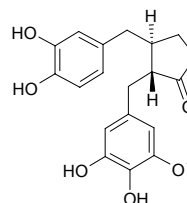
5081 9-Demethylhomolycorine

[6879-81-8] C₁₇H₁₉NO₄ (301.35). mp 213~214°C. Pharm: Cytotoxic (hmn lymphoma Molt4, ED₅₀ = 18.5μg/mL, mouse fiber cell LMTK, ED₅₀ = 0.8μg/mL). Source: SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. Ref: 6, 1847.



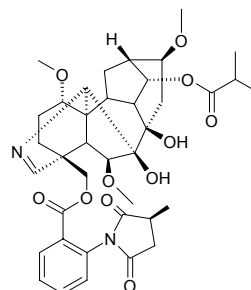
5082 (-)-3'-O-Demethyl-5-hydroxymatairesinol

(8*R*,8'*R*)-3'-*O*-Demethyl-5-hydroxymatairesinol C₁₉H₂₀O₇ (360.37). [α]_D²³ = -27.5° (c = 0.10, MeOH). Source: *Macrocculus pomiferus* (stem). Ref: 3869.



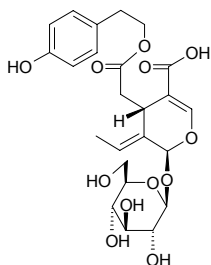
5083 14-Demethyl-14-isobutyrylanhweidelphinine

C₃₈H₄₈N₂O₁₁ (708.81). Amorphous substance, [α]_D²⁵ = +65.2° (c = 0.14, CHCl₃). Source: WU ZHU FEI YAN CAO *Delphinium pentagynum* (aerial parts). Ref: 3831.

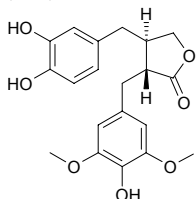


5084 Demethyligstroside

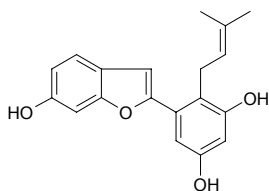
$C_{24}H_{30}O_{12}$ (510.50). Colorless amorphous powder, $[\alpha]_D^{26} = -110^\circ$ ($c = 0.32$, MeOH). Source: MEI GUO BAI CEN *Fraxinus americana* (leaf). Ref: 5091.

**5085 (-)-3'-O-Demethyl-5-methoxymatairesinol**

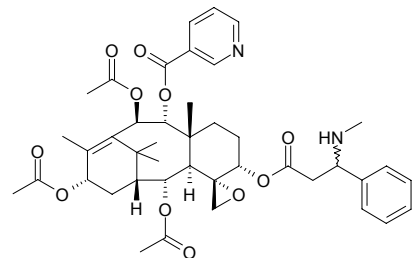
(8*R*,8'*R*)-3'-*O*-Demethyl-5-methoxymatairesinol $C_{20}H_{22}O_7$ (374.39). $[\alpha]_D^{23} = -6.0^\circ$ ($c = 0.12$, MeOH). Source: *Macrococculus pomiferus* (stem). Ref: 3869.

**5086 Demethylmoracin I**

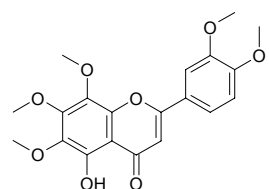
Anticancer Benzofuran PMV70P691-006 $C_{19}H_{18}O_4$ (310.35). Brown powder, mp 82~83°C. Pharm: Aromatase inhibitor (*in vitro*, $IC_{50} = 31 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090, 5038]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090, 5038.

**5087 N-Demethylnicaustrine**

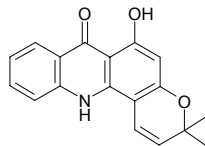
[126617-16-1] $C_{42}H_{52}N_2O_{11}$ (760.89). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**5088 Demethylnobiletin**

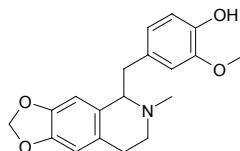
5-Hydroxy-6,7,8,3',4'-pentamethoxyflavone [2174-59-6] $C_{20}H_{20}O_8$ (388.38). mp 144°C. Source: A ER TAI ZI WAN *Heteropappus altaicus*, JU PI *Citrus reticulata*. Ref: 2, 6.

**5089 N-Demethylnoracronycine**

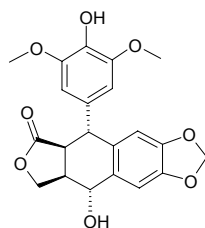
[13396-93-5] $C_{18}H_{15}NO_3$ (293.33). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**5090 N-Demethylphylocryptine**

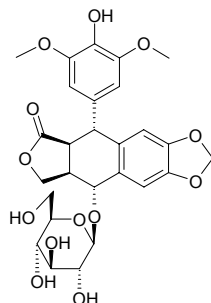
$C_{19}H_{21}NO_4$ (327.38). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**5091 4-Demethyl-picropodophyllotoxin**

$C_{21}H_{20}O_8$ (400.39). Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 3543.

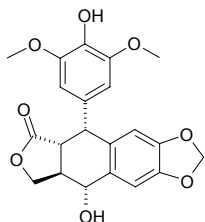
**5092 4-Demethyl-picropodophyllotoxin 7'-O-beta-D-glucopyranoside**

$C_{27}H_{30}O_{13}$ (562.53). White powder, $[\alpha]_D^{29} = -5.18^\circ$ ($c = 0.6$, MeOH). Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 3543.

**5093 4-Demethyl-podophyllotoxin**

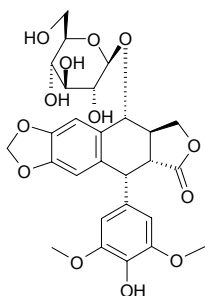
4'-Demethylpodophyllotoxin [40505-27-9] $C_{21}H_{20}O_8$ (400.39). Pharm: Antineoplastic; antimitotic; antiviral; laxative; used in treatment of skin cancer; supertoxic agent. Source: BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*] (rhizome: content = 0.013%)^[5508], BAI YA MA *Linum album*, BI LIN BA JIAO LIAN *Dysosma furfuracea* (rhizome: mean content in different seasons = 0.47%)^[5508], CHONG MING BA JIAO LIAN *Dysosma subrosea* (rhizome: content = 0.48%)^[5508], CHUAN BA JIAO LIAN *Dysosma veitchii* (rhizome: content = 0.022%)^[5508], GUANG XI BA JIAO LIAN *Dysosma guangxiensis* (rhizome: content = 0.0071%)^[5508], GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*] (rhizome: content = 0.0053%)^[5508], KU YUAN ZHI *Polygala polygama*, LIU JIAO

LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: mean content = 0.11%)^[5508], TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome: mean content of 5 origins = 0.63%)^[5508], WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.78%)^[5508], XIAO BA JIAO LIAN *Dysosma difformis* (rhizome: content = 0.22%)^[5508]. Ref: 658, 3543, 5508.



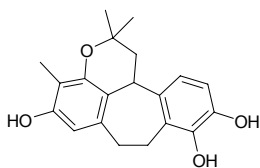
5094 4-Demethyl-podophyllotoxin 7'-O-β-D-glucopyranoside

C₂₇H₃₀O₁₃ (562.53). Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 3543.



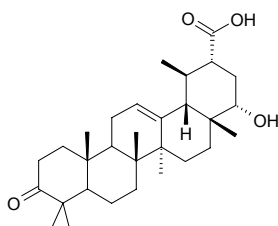
5095 Demethylracemosol

C₂₀H₂₂O₄ (326.40). Pharm: Cytotoxic (KB, EC₅₀ = 5.6 μg/mL, control Ellipticine, EC₅₀ = 0.3 μg/mL; BC, EC₅₀ = 3.6 μg/mL, Ellipticine, EC₅₀ = 0.3 μg/mL)^[5092]; antimalarial (*Plasmodium falciparum*, EC₅₀ = 2.0 μg/mL, control Chloroquine diphosphate, EC₅₀ = 0.16 μg/mL). Source: MA LA BA YANG TI JIA *Bauhinia malabarica* (root). Ref: 5092.



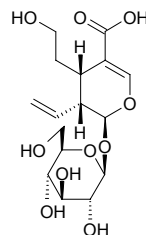
5096 Demethylregelin

C₃₀H₄₆O₄ (470.70). Pharm: DPPH scavenger inactive (for 40 μmol/L DPPH radical, SC₅₀ > 40 μmol/L). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.



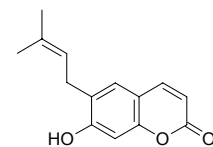
5097 Demethylsecologanol

C₁₆H₂₄O₁₀ (376.36). Amorphous, [α]_D²³ = -108.3° (c = 0.06, MeOH). Source: LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb). Ref: 4527.



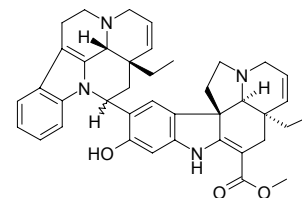
5098 7-Demethylsuberosin

[12422-04-8] C₁₄H₁₄O₃ (230.27). Pharm: AChE inhibitor (*in vitro*, IC₅₀ = 2.4 mmol/L)^[3058]; antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 (mol ratio/32 pmol TPA), EBV-EA-positive cells = (15.4 ± 1.7)% (viability = 60%), β-Carotene, EBV-EA-positive cells = (34.3 ± 1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8 ± 1.8)% (viability > 80%); IC₅₀ = 172 (mol ratio/32 pmol TPA), β-Carotene, IC₅₀ = 400 (mol ratio/32 pmol TPA), Curcumin IC₅₀ = 341 (mol ratio/32 pmol TPA))^[5048]. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058], LI HUA JU *Citrus tachibana*, *Citrus rugulosa*, *Citrus jambhiri*, *Citrus sulcata*, *Citrus tamurana*. Ref: 2, 3058, 5048.



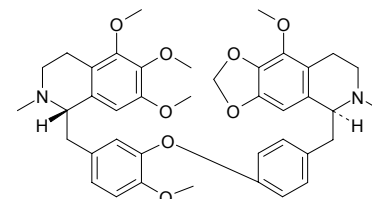
5099 De-O-methyltenucausine

[221640-45-5] C₄₀H₄₄N₄O₃ (628.82). White amorphous powder, mp 190°C, [α]_D¹³ = -198.5° (c = 0.047, CHCl₃). Source: CHUAN SHAN CHENG *Melodinus hemsleyanus*. Ref: 412.



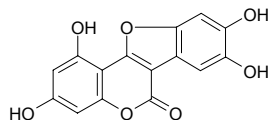
5100 N-Demethylthalistyline

[62251-51-8] C₄₀H₄₈N₂O₈ (682.82). Yellow amorphous powder, [α]_D²⁵ = +151° (c = 0.2, methanol). Pharm: Antibacterial (*Mycobacterium smegmatis*, MIC ≤ 100 μg/mL); antihypertensive (dog, rbt). Source: CHANG ZHU TANG SONG CAO *Thalictrum longistylum*, BING GUO TANG SONG CAO *Thalictrum podocarpum*. Ref: 661.

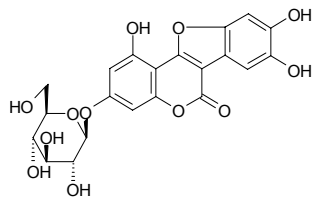


5101 Demethylwedelolactone

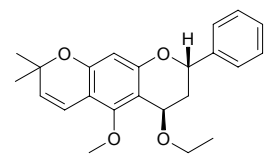
Norwedelolactone [6468-55-9] $C_{15}H_8O_7$ (300.23). Green needles (MeOH), mp 360°C. **Pharm:** Antihepatotoxin (rat, liver toxicosis induced by CCl_4 , $GaIn$ and phalloidin, 67.6 μ g/mL for liver toxicosis induced by phalloidin, InRt = 98%, CD_{50} = 22.3 μ g/mL, promotes regeneration of liver cells obviously); hemostatic (ED_{50} = 0.3mg/kg, 0.5mg/kg reduces bleeding time by 4.2min); antifungal (*Aspergillus niger*, 100mg/L InRt = 50%). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*], PENG QI JU *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], XIAO LIAN QIAO *Hypericum erectum*. **Ref:** 6, 2754, 2755, 2756, 2757, 2758, 2759, 2760.

**5102 Demethylwedelolactone-7-glucoside**

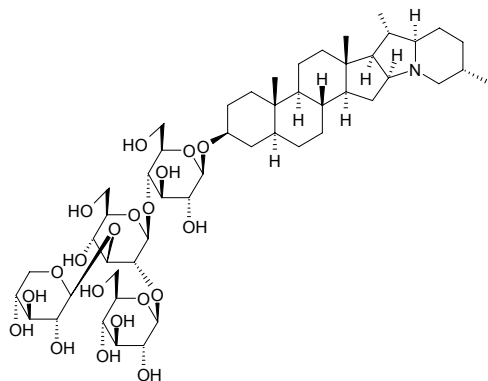
$C_{21}H_{18}O_{12}$ (462.37). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 6.

**5103 4β-Demethylxuanlanin-4β-ethyl ether**

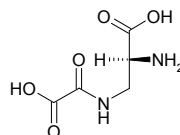
4β-Ethoxy-5-methoxy-6'',6''-dimethyl-2H-pyrano-(2'',3'':7,6)-flavan $C_{23}H_{26}O_4$ (366.46). Yellow oil. **Source:** *Lonchocarpus xuul* (stem cortex). **Ref:** 3973.

**5104 Demissine**

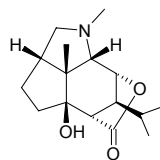
[6077-69-6] $C_{50}H_{83}NO_{20}$ (1018.21). **Pharm:** Antifungal; cardiotonic. **Source:** CHA QIE *Solanum chacoense*, KE MO SEN QIE *Solanum commersonii*, AI QIE *Solanum demissum*, SHI XIAN QIE *Solanum decemlineata*, JU SHI QIE *Solanum juzepczukii*. **Ref:** 658, 661.

**5105 (S)-Dencichine**

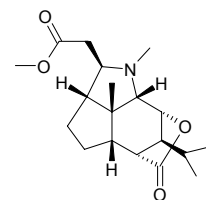
[5302-45-4] $C_5H_8N_2O_5$ (176.13). **Pharm:** Hemostatic (mouse, perfusion in stomach, 1mg/kg, platelets increase = (24~30)%^[5501]; LD_{50} (mouse, perfusion in stomach) = (836±17)mg/kg^[5501]. **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (root: mean content in different standards = 0.350%^[5508]; 0.87%^[5501]). **Ref:** 1521, 5501, 5508.

**5106 Dendramine**

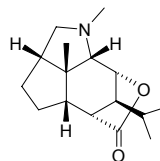
[7668-75-9] $C_{16}H_{25}NO_3$ (279.38). mp 186~188°C. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 6.

**5107 Dendrine**

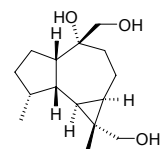
[2651-57-2] $C_{19}H_{29}NO_4$ (335.45). mp 191~192°C. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 6.

**5108 Dendrobine**

[2115-91-5] $C_{16}H_{25}NO_2$ (263.38). mp 135~136°C. **Pharm:** Antipyretic; causes hyperspasmia in toxic doses; inhibits respiration; antihypertensive; analgesic; uterine stimulant. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile* (the compound was isolated from the plant by Y.Inubushi, et al. in 1965)^[5505], FEN LAI SHI HU *Dendrobium findleyanum*. **Ref:** 6, 658, 5501, 5505.

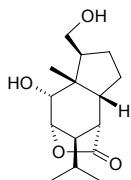
**5109 Dendrobiumane A**

$C_{13}H_{26}O_3$ (254.37). Colorless gum, $[\alpha]_D^{24} = +2.3^\circ$ ($c = 0.35$, EtOH). **Source:** XI JING SHI HU *Dendrobium moniliforme* (fresh stem). **Ref:** 5490.

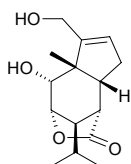


5110 Dendrobiumane B

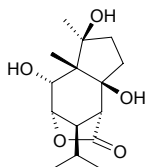
$C_{15}H_{24}O_4$ (268.36). Colorless gum, $[\alpha]_D^{23} = -7.0^\circ$ ($c = 0.80$, EtOH). Source: XI JING SHI HU *Dendrobium moniliforme* (fresh stem). Ref: 5490.

**5111 Dendrobiumane C**

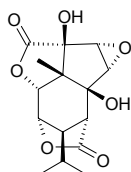
$C_{15}H_{22}O_4$ (266.34). Colorless gum, $[\alpha]_D^{24} = +122.7^\circ$ ($c = 0.05$, EtOH). Source: XI JING SHI HU *Dendrobium moniliforme* (fresh stem). Ref: 5490.

**5112 Dendrobiumane D**

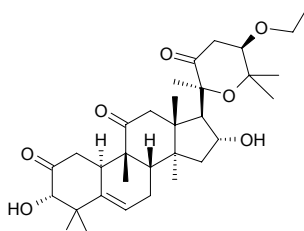
$C_{15}H_{24}O_5$ (284.36). Colorless gum, $[\alpha]_D^{23} = +5.7^\circ$ ($c = 0.31$, EtOH). Source: XI JING SHI HU *Dendrobium moniliforme* (fresh stem). Ref: 5490.

**5113 Dendrobiumane E**

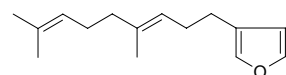
$C_{15}H_{18}O_7$ (310.31). Colorless gum, $[\alpha]_D^{24} = +4.1^\circ$ ($c = 0.21$, EtOH). Source: XI JING SHI HU *Dendrobium moniliforme* (fresh stem). Ref: 5490.

**5114 Dendrocyin**

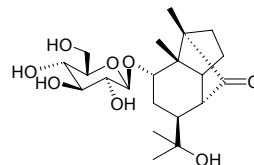
Isocucurbitacin; 24 β -Ethoxy-20-25-epoxy-3 α ,16 α -dihydroxy-9-methyl-19-norlanost-5(6) ene-2,11,22-trione $C_{32}H_{48}O_7$ (544.74). White prisms (methanol), mp 195–198°C. Source: *Dendrosicyos socotrana* (stem). Ref: 3855.

**5115 Dendrolasin**

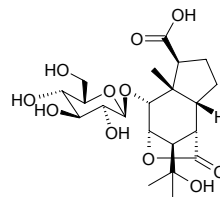
[23262-34-2] $C_{15}H_{22}O$ (218.34). bp 148–150°C/16mmHg. Source: TAN XIANG *Santalum album*. Ref: 6.

**5116 Dendromoniliside A**

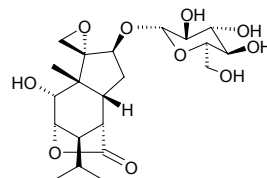
2 α ,12-Dihydroxycopacamphan-15-one 2-*O*- β -*D*-glucopyranoside $C_{21}H_{34}O_8$ (414.5). White amorphous powder, mp 215–216°C (dec), $[\alpha]_D^{20} = 0.6^\circ$ ($c = 0.4$, H₂O). Pharm: Proliferation stimulator (B cells *in vitro*, 0.00001 mol/L, $p < 0.05$); proliferation inhibitor (T cells *in vitro*, 0.0000001 mol/L, $p < 0.05$, without any obvious cytotoxic effects). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0007%dw). Ref: 4717.

**5117 Dendromoniliside B**

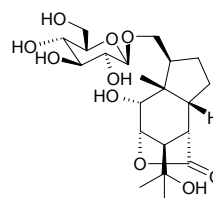
2 α ,3 α ,12-Trihydroxypicrotoxane-3(15 α)-olid-11-oic acid 2-*O*- β -*D*-glucopyranoside $C_{21}H_{32}O_{11}$ (460.48). Colorless prism crystals (MeOH:H₂O = 1:1), mp 225–227°C, $[\alpha]_D^{20} = -18.3^\circ$ ($c = 0.5$, MeOH). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0003%dw). Ref: 4717.

**5118 Dendromoniliside C**

2 α ,3 α ,8 β -Trihydroxy-9 α -(11)-epoxypicrotoxan-3(15 α)-olide 8-*O*- β -*D*-glucopyranoside $C_{21}H_{32}O_{10}$ (444.48). White amorphous powder, mp 170–172°C, $[\alpha]_D^{20} = 0.5^\circ$ ($c = 0.4$, H₂O). Pharm: Proliferation stimulator (B cells *in vitro*, 0.00001 mol/L, $p < 0.05$); proliferation inhibitor (T cells *in vitro*, 0.0000001 mol/L, $p < 0.05$, without any obvious cytotoxic effects). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0007%dw). Ref: 4717.

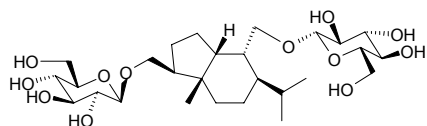
**5119 Dendromoniliside D**

2 α ,3 α ,11,12-Tetrahydroxypicrotoxan-3(15 α)-olide 11-*O*- β -*D*-glucopyranoside $C_{21}H_{34}O_{10}$ (446.5). White amorphous powder, mp 205–207°C, $[\alpha]_D^{20} = -0.4^\circ$ ($c = 1.2$, H₂O). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0003%dw). Ref: 4717.

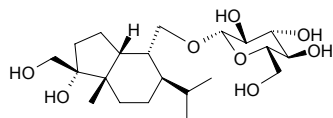


5120 Dendronobiloside A

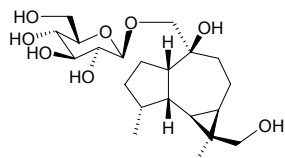
10,12-Dihydroxypicrotoxane 10,12-di-*O*- β -*D*-glucopyranoside C₂₇H₄₈O₁₂ (564.68). White amorphous powder, $[\alpha]_D^{20} = -62.9^\circ$ ($c = 0.6$, MeOH). **Pharm:** Immunoenhancer (*in vitro*, stimulates significantly proliferation of mouse B lymphocytes, 1.0 μ mol/L, $p < 0.01$, control Astragaloside I, 1.0 μ mol/L, $p < 0.05$). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile* (stem). **Ref:** 3084.

**5121 Dendronobiloside B**

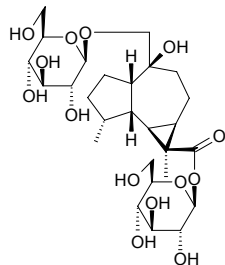
6 α ,10,12-Trihydroxypicrotoxane 10-*O*- β -*D*-glucopyranoside C₂₁H₃₈O₈ (418.53). White amorphous powder, $[\alpha]_D^{20} = -63.6^\circ$ ($c = 0.5$, MeOH). **Pharm:** Immunosuppressant (*in vitro*, inhibits proliferation of mouse T lymphocytes, 0.1-10.0 μ mol/L, $p < 0.05$). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile* (stem). **Ref:** 3084.

**5122 Dendroside A**

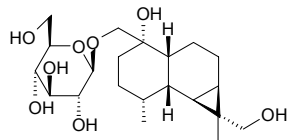
10 β ,12,14-Trihydroxyalloaromadendrane 14-*O*- β -*D*-glucopyranoside C₂₁H₃₆O₈ (416.52). White amorphous powder; mp 145~147°C, $[\alpha]_D^{14} = -48.6^\circ$ ($c = 0.1$, MeOH). **Pharm:** Immunoenhancer (*in vitro*, stimulates significantly proliferation of mouse T lymphocytes, 0.1 μ mol/L, $p < 0.01$, control Astragaloside I, 10 μ mol/L, $p < 0.05$; stimulates significantly proliferation of mouse B lymphocytes, 10 μ mol/L, $p < 0.01$, Astragaloside I, 1.0 μ mol/L, $p < 0.05$). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile* (stem). **Ref:** 3084.

**5123 Dendroside D**

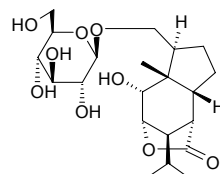
C₂₇H₄₄O₁₄ (592.64). White amorphous powder, $[\alpha]_D^{20} = -31.3^\circ$ ($c = 0.5$, MeOH). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 1931.

**5124 Dendroside E**

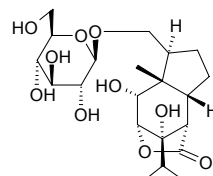
C₂₁H₃₆O₈ (416.52). White amorphous powder, $[\alpha]_D^{20} = -38.3^\circ$ ($c = 0.4$, MeOH). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 1931.

**5125 Dendroside F**

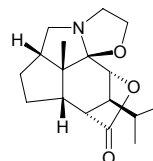
C₂₁H₃₄O₉ (430.50). White amorphous powder, $[\alpha]_D^{20} = -30.6^\circ$ ($c = 0.5$, MeOH). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*, XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.00016%dw)^[4717]. **Ref:** 1931, 4717.

**5126 Dendroside G**

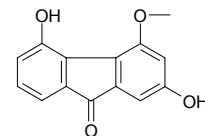
C₂₁H₃₄O₁₀ (446.50). White amorphous powder, $[\alpha]_D^{20} = -24.9^\circ$ ($c = 0.6$, MeOH). **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 1931.

**5127 Dendroxine**

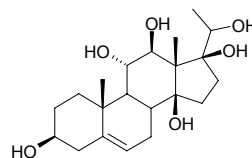
[7668-77-1] C₁₇H₂₅NO₃ (291.39). mp 114~115°C. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 6.

**5128 Dengibsin**

C₁₄H₁₀O₄ (242.23). **Source:** MI HUA SHI HU *Dendrobium densiflorum* (stem). **Ref:** 5171.

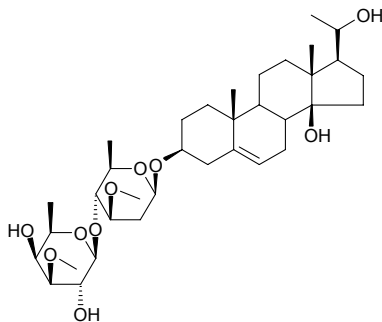
**5129 Deniagenin**

3 β ,11 α ,12 β ,14 β ,17 β ,20-Hexahydroxy pregn-5-ene C₂₁H₃₄O₆ (382.50). White amorphous powder, mp 110°C, $[\alpha]_D = -66.7^\circ$ ($c = 0.3$, CHCl₃). **Source:** ROU LEI NIU NAI CAI *Marsdenia roylei* (aerial parts). **Ref:** 3490.

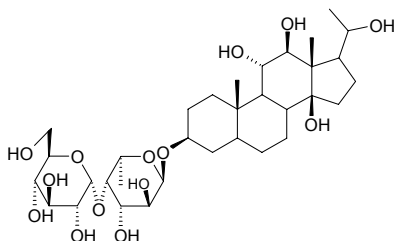


5130 Denicunine

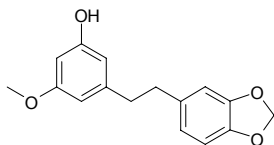
Calogenin 3-*O*-3-*O*-methyl- β -*D*-fucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-oleandro-pyranoside C₃₃H₅₈O₁₀ (638.85). mp 148°C, $[\alpha]_D = +20^\circ$ ($c = 0.11$, MeOH). Source: YIN DU BA QIA *Hemidesmus indicus* (stem). Ref: 5081.

**5131 Denin**

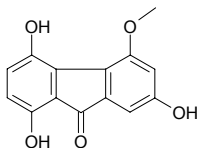
Desacylkundurangenin C-3-*O*- α -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- α -*L*-fucopyranoside C₃₃H₅₆O₁₄ (676.81). White amorphous powder, mp 232°C, $[\alpha]_D = +12.5^\circ$ ($c = 0.016$, CHCl₃). Source: ROU LEI NIU NAI CAI *Marsdenia roylei* (aerial parts). Ref: 3490.

**5132 Densiflorol A**

C₁₆H₁₆O₄ (272.30). White amorphous powder. Source: MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 5171.

**5133 Densiflorolorin**

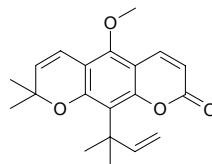
C₁₄H₁₀O₅ (258.23). Red amorphous powder. Source: MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 5171.

**5134 Dentatin**

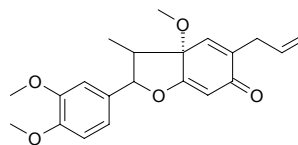
Poncitrin [22980-57-0] C₂₀H₂₂O₄ (326.40). mp 95–96°C; mp 93–94°C. Pharm: Antibacterial (*Mycobacterium tuberculosis*, MIC = 50 μ g/mL, control Isoniazide, MIC = 0.040–0.090 μ g/mL, Kanamycin sulfate, MIC = 2.0–5.0 μ g/mL)^[5367]; antifungal inactive (*Candida albicans*, control Amphotericin, IC₅₀ = 0.01 μ g/mL)^[5367]; antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 (mol ratio/32 pmol TPA), EBV-EA-positive cells = (47.9 \pm 1.4)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability > 80), Curcumin,

EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%); IC₅₀ = 496 (mol ratio/32 pmol TPA), β -Carotene, IC₅₀ = 400 (mol ratio/32 pmol TPA), Curcumin IC₅₀ = 341 (mol ratio/32 pmol TPA))^[5048].

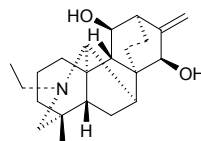
Source: CHENG ZI *Citrus junos*, SHAN HUANG PI *Clausena excavata*, YE HUANG PI *Clausena dentata*, ZHI GEN PI *Poncirus trifoliata*. Ref: 6, 1521, 5367, 5048.

**5135 (-)-Denudatin B**

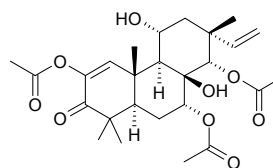
C₂₁H₂₄O₅ (356.42). Colorless oleaginous substance, $[\alpha]_D^{15} = -76.4^\circ$ ($c = 0.11$, CHCl₃). Pharm: PAF antagonist (IC₅₀ = 7.5 μ mol/L); PAF receptor antagonist (5 μ g/mL, InRt = 80.1%, 10 μ g/mL, InRt = 100%); used in treatment of rheumatic arthritis and asthma; calcium antagonist (28 μ mol/L, activity = 100%); calcium antagonist (gpg, colon bands); vascular relaxant (inhibits inward flow of calcium, increase cGMP); anti-platelet (nonspecific). Source: WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*], HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 267, 658, 1578, 1609, 1610, 1611.

**5136 Denudatine**

[26166-37-0] C₂₂H₃₃NO₂ (343.51). Pharm: Antiarrhythmic (rat, aconitine induced arrhythmia, inhibits rapid inward flow of sodium ion; CaCl₂ induced arrhythmia, reduces heart rate); antihypertensive (rat, iv, 25–50 mg/kg, slightly blood pressure goes down); eclamptogenic (mus, iv, ED₅₀ = 55.6 mg/kg); Intestinal smooth muscle relaxant (dog intestine, reduces tension and creep); antineoplastic (leukemia); cytotoxic; LD₅₀ (mus, iv) = 128 mg/kg, (mus, orl) = 290 mg/kg. Source: LU CUI QUE *Delphinium denudatum*, FU ZI *Aconitum carmichaeli*. Ref: 16, 1621, 1622, 1623, 1624.

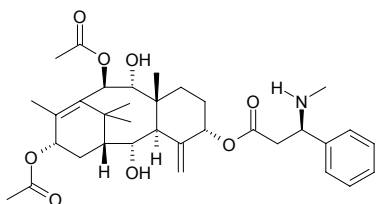
**5137 14-Deoxy-14-O-acetylorthosiphol Y**

C₂₆H₃₆O₉ (492.57). Colorless amorphous solid, $[\alpha]_D^{25} = -29.1^\circ$ ($c = 0.340$, CHCl₃). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 118.7 μ mol/L; control L-NMMA, IC₅₀ = 35.7 μ mol/L). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn. *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00038% dw). Ref: 4741.

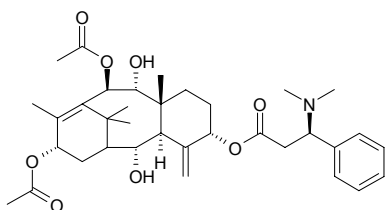


5138 13-Deoxo-13 α -acetyloxy-1-deoxynortaxine B

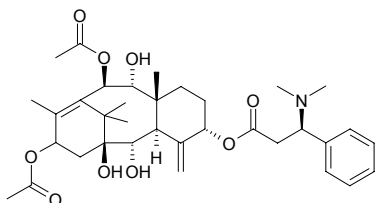
2 α ,9 α -Dihydroxy-10 β ,13 α -diacetoxy-5 α -(3'-N-methylamino-3'-phenyl)-propionyloxytaxa-4(20),11-diene C₃₄H₄₇NO₈ (597.76). Gum, [α]_D²² = +47° (c = 0.21, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662, 3886.

**5139 13-Deoxo-13 α -acetyloxy-1-deoxytaxine B**

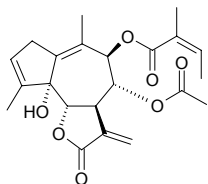
C₃₅H₄₉NO₈ (611.78). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**5140 13-Deoxo-3 α -acetyloxytaxine B**

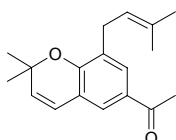
C₃₅H₄₉NO₉ (627.78). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**5141 2-Deoxo-8-O-acetyl pumilin**

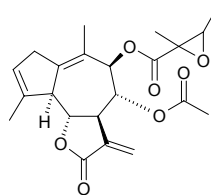
C₂₂H₂₆O₇ (402.45). Yellow oil, [α]_D²² = 0.024° (c = 2.75, CH₂Cl₂). Source: *Balsamorhiza sagittata* (aerial parts), *Balsamorhiza macrophylla* (aerial parts). Ref: 991.

**5142 Deoxodehydrocyclopiloselloidone**

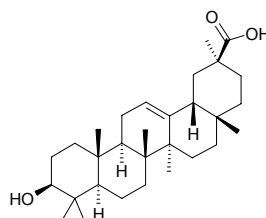
Desoxodehydrocyclopiloselloidone C₁₈H₂₂O₂ (270.37). Source: MAO DA DING CAO *Gerbera piloselloides*. Ref: 6.

**5143 2-Deoxo-5-deoxy-8-O-acetyl-17,18-epoxy pumilin**

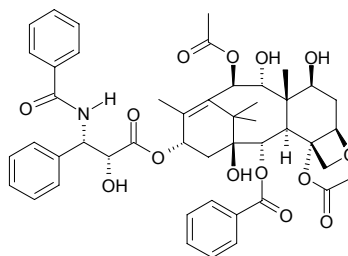
C₂₂H₂₆O₇ (402.45). Yellow oil, [α]_D²² = 0.03° (c = 3.88, CH₂Cl₂). Source: *Balsamorhiza sagittata* (aerial parts), *Balsamorhiza macrophylla* (aerial parts). Ref: 991.

**5144 11-Deoxoglycyrrhetic acid**

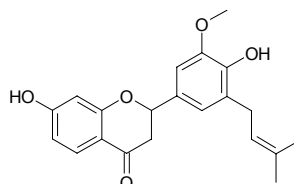
11-Deoxoglycyrrhetic acid C₃₀H₄₈O₃ (456.72). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, LEI GONG TENG *Tripterygium wilfordii*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 660, 670.

**5145 9-Deoxo-9 α -hydroxytaxol**

C₄₇H₅₃NO₁₄ (855.94). mp 174~176°C, [α]_D = -13.1° (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

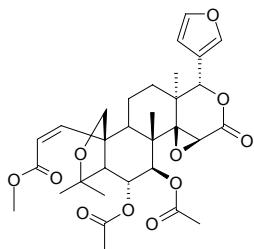
**5146 5-Deoxyabysinnin II**

4',7-Dihydroxy-3'-methoxy-5'-prenylflavanone C₂₁H₂₂O₅ (354.41). Amorphous powder, [α]_D = 0° (c = 0.01, MeOH). Pharm: Antimalarial (*Plasmodium falciparum* D6, IC₅₀ = (13.6±0.9)μg/mL, control Chloroquine, IC₅₀ = (0.009±0.002)μg/mL, Quinine, IC₅₀ = (0.04±0.01)μg/mL; *Plasmodium falciparum* W2, IC₅₀ = (13.3±1.5)μg/mL, Chloroquine, IC₅₀ = (0.08±0.003)μg/mL, Quinine, IC₅₀ = (0.21±0.01)μg/mL)^[3879]. Source: A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex). Ref: 3879.

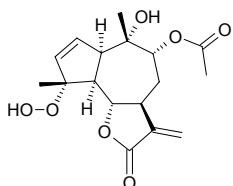


5147 6-Deoxy-6 α -acetoxyatalantini acetate

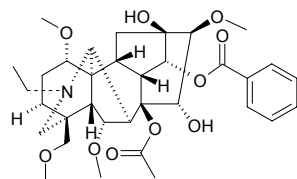
Limonoid C₃₁H₃₈O₁₁ (586.64). White lamellar prismatic crystals, mp 208–209°C. Source: DONG FENG JU YE *Atalantia buxifolia* [Syn. *Severinia buxifolia*]. Ref: 402.

**5148 8-Deoxy-9-O-acetylanthemolide B**

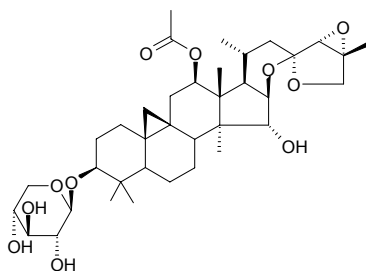
C₁₇H₂₂O₇ (338.36). Amorphous solid, $[\alpha]_D^{25} = -54^\circ$ ($c = 0.32$, MeOH). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**5149 Deoxyaconitine**

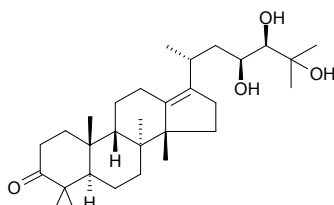
[3175-95-9] C₃₄H₄₇NO₁₀ (629.75). Source: FU ZI *Aconitum carmichaeli*. Ref: 16, 1521.

**5150 27-Deoxyactein**

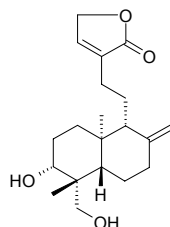
C₃₇H₅₆O₁₁ (676.85). Pharm: Cytotoxic (HSC-2 cells, IC₅₀ = 211 μmol/L, control Etoposide, IC₅₀ = 24 μmol/L; HGF cells, IC₅₀ = 276 μmol/L)^[4158]. Source: ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). Ref: 4158.

**5151 11-Deoxyalisol A**

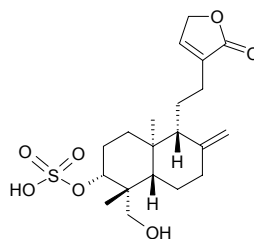
C₃₀H₅₀O₄ (474.73). Colorless powder. Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. Ref: 2213.

**5152 Deoxyandrographolide**

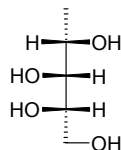
C₂₀H₃₀O₄ (334.46). Pharm: Antibacterial; antispasmodic; anti-inflammatory (rat, edema on ears caused by oleum crotonis); reduces effusion of Evan's blue from blood capillary (caused by xylene or acetic acid); stimulates function of adrenal cortex; LD₅₀ (mus, orl) > 20mg/kg. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 658, 1521, 5501.

**5153 14-Deoxyandrographolide-3-O-sulfate**

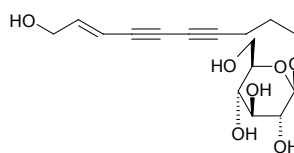
C₂₀H₃₀O₇S (414.52). White amorphous powder. Source: REN NIAO *Homo sapiens*. Ref: 4300.

**5154 1-Deoxy-L-arabinitol**

C₅H₁₂O₄ (136.15). Amorphous powder, $[\alpha]_D^{24} = -3^\circ$ ($c = 0.5$, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

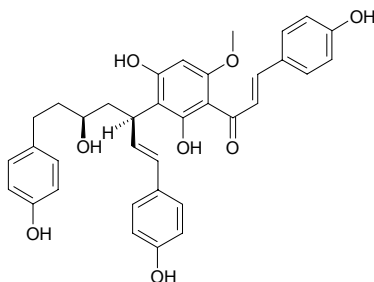
**5155 3-Deoxybidensynoeside B**

(*E*)-8-Decene-4,6-diyne-1,10-diol 1-*O*- β -*D*-glucopyranoside C₁₆H₂₂O₇ (326.35). Colorless crystals, mp 164°C, $[\alpha]_D^{23} = -67.7^\circ$ ($c = 0.5$, MeOH). Pharm: Antihistamine (mast cells, inhibits histamine release induced by antigen-antibody reaction, IC₅₀ = 0.085 μmol/L, control Indumethacin, IC₅₀ = 0.625 μmol/L)^[4105], NO production inhibitor (mus macrophages RAW264.7, activated by 100ng/mL LPS at 37°C, for 18h, IC₅₀ = 0.116 μmol/L, activated by 100ng/mL LPS + 10U/mL IFN- γ at 37°C, for 18h, IC₅₀ = 0.078 μmol/L)^[4105]. Source: XIAO HUA GUI ZHEN *Bidens parviflora* (whole herb). Ref: 4105.

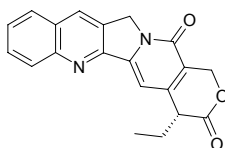


5156 Deoxycalyxin A

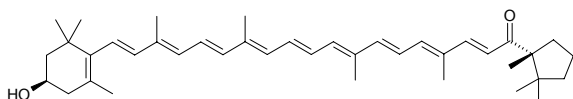
$C_{35}H_{34}O_8$ (582.66). Light yellow amorphous solid, $[\alpha]_D^{25} = +147.9^\circ$ ($c = 0.035$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 27.4\mu\text{mol/L}$; HT1080, $ED_{50} = 26.5\mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2\mu\text{mol/L}$; HT1080, $ED_{50} = 23.4\mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000056%). **Ref:** 3035.

**5157 Deoxycamptothecin**

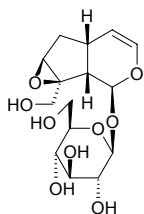
[34141-35-0] $C_{20}H_{16}N_2O_3$ (332.36). mp 171~172°C. **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 6, 1521.

**5158 3'-Deoxycapsanthin**

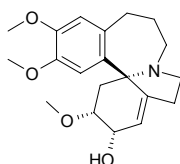
(3*R*,5'*R*)-3-Hydroxy- β,κ -caroten-6'-one $C_{40}H_{56}O_2$ (568.89). **Source:** HONG HAI JIAO *Capsicum annuum* (fruit: yield = 0.00005%). **Ref:** 3007.

**5159 6-Deoxycatalpol**

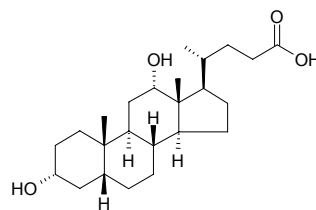
$C_{15}H_{22}O_9$ (346.34). **Source:** ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**5160 7-Deoxycephalofortuneine**

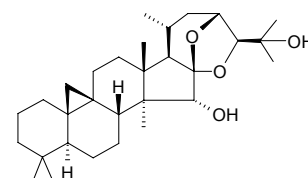
[128508-20-3] $C_{20}H_{27}NO_4$ (345.44). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2, 1521.

**5161 Deoxycholic acid**

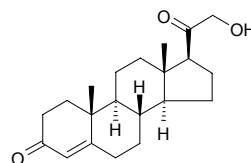
7-Deoxycholic acid [83-44-3] $C_{24}H_{40}O_4$ (392.58). **Pharm:** Antispasmodic (main antispasmodic component in *Bos taurus domesticus*; *Bubalus bubalis* NIU HUANG)^[5501]; choleric (bile secretion promoter)^[5501]; anti-inflammatory (mouse, acetic acid-induced, ip, inhibits increase of vaso-permeability)^[5501]; antibacterial (*Vibrio cholerae*, *Bacillus coli*, *Staphylococcus tetragenus*, *Staphylococcus aureus*, *Streptococcus* sp.)^[5501]; antiviral (mouse, encephalitis B virus)^[5501]; LD₅₀ (mouse, perfusion in stomach) = 1.06g/kg, (mouse, iv) = 0.15g/kg^[5501]. **Source:** NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: mean content = 1.65%^[5508]), XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 2, 658, 5501, 5508.

**5162 3-Deoxycimigenol**

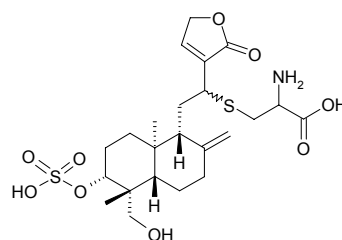
$C_{30}H_{48}O_4$ (472.71). mp 202~203°C. **Source:** RI BEN SHENG MA *Cimicifuga japonica*. **Ref:** 2215.

**5163 Deoxycorticosterone**

21-Hydroxypregn-4-ene-3,20-dione [64-85-7] $C_{21}H_{30}O_3$ (330.47). mp 141~142°C. **Source:** NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, ZI HE CHE *Homo sapiens*. **Ref:** 6.

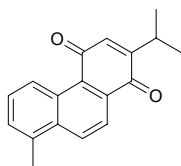
**5164 14-Deoxy-12-(cysteine-S-yl)-andrographolide-3-O-sulfate**

$C_{23}H_{39}NO_9S_2$ (533.66). White amorphous powder. **Source:** REN NIAO *Homo sapiens*. **Ref:** 4300.

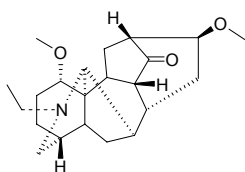


5165 12-Deoxydanshenxinkun B

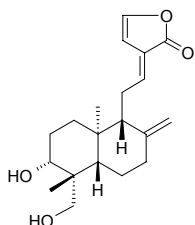
18,20-Dinor-1,3,5(10),6,8,12-abietahexaene-11,14-dione C₁₈H₁₆O₂ (264.33). Red needles (CHCl₃-*n*-hexane), mp 187~197°C. Source: JIAO ZHI SHU WEI CAO *Salvia glutinosa* (dried root). Ref: 2384.

**5166 8-Deoxy-14-dehydro-aconosine**

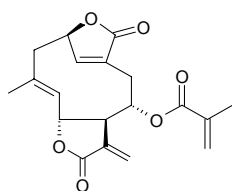
C₂₂H₃₃NO₃ (359.51). Source: FU ZI *Aconitum carmichaeli*. Ref: 16.

**5167 14-Deoxy-11,12-didehydroandrographolide**

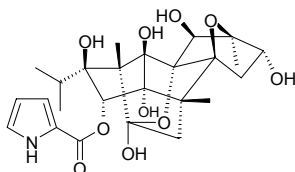
C₂₀H₂₈O₄ (332.44). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 1521.

**5168 Deoxyelephantopin**

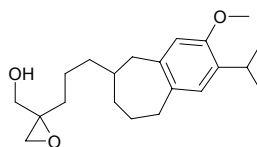
[29307-03-7] C₁₉H₂₀O₆ (344.37). mp > 320°C. Pharm: Antineoplastic (mus, *in vivo*, Walker cancer); cytotoxic. Source: KU DI DAN *Elephantopus scaber*, KA LUO LAI NA DI DAN CAO *Elephantopus carolinianus*. Ref: 5, 6, 658.

**5169 6-Deoxy-6β,9β-epoxy-8α-hydroxy-10-epi-ryanodine**

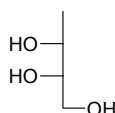
C₂₅H₃₃NO₁₀ (507.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 172°C, [α]_D = -8° (c = 0.2). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**5170 10-Deoxy-4,18-epoxy-12-methoxy-4,5-seco-pisiferan-19-ol**

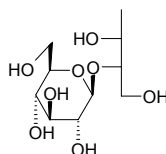
[245110-74-1] C₂₁H₃₂O₃ (332.49). Gum, [α]_D²⁵ = +25.8° (c = 0.03, CHCl₃). Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

**5171 1-Deoxy-L-erythritol**

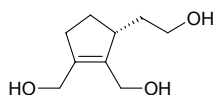
C₄H₁₀O₃ (106.12). Amorphous powder, [α]_D²³ = -30° (c = 0.3, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

**5172 1-Deoxy-L-erythritol 3-O-β-D-glucopyranoside**

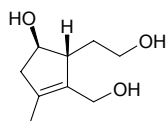
C₁₀H₂₀O₈ (268.27). Amorphous powder, [α]_D²¹ = -29° (c = 0.1, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 3402.

**5173 1-Deoxyeucommiol**

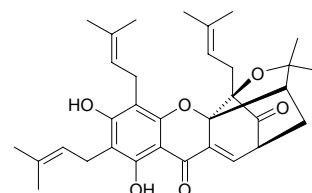
C₉H₁₆O₃ (172.23). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**5174 10-Deoxyeucommiol**

C₉H₁₆O₃ (172.23). Yellow oil, [α]_D¹⁷ = -33.77° (c = 3.61, MeOH). Source: DIAO DENG SHU *Kigelia pinnata*. Ref: 3418.

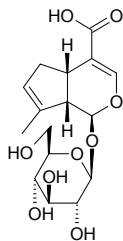
**5175 Deoxygaudichaudione A**

C₃₃H₄₀O₆ (532.68). Pharm: Cytotoxic (hmn leukemia); doxorubicin-resistant K562, IC₅₀ = (3.04±0.18)μg/mL, control Adriamycin, IC₅₀ = (1.79±0.17)μg/mL; drug-sensitive K562, IC₅₀ = (1.74±0.22)μg/mL, Adriamycin, IC₅₀ = (0.11±0.01)μg/mL. Source: TENG HUANG SHU *Garcinia hanburyi* (resin). Ref: 1583.

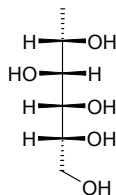


5176 10-Deoxygeniposidic acid

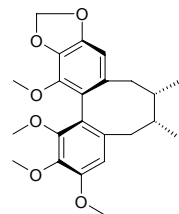
$C_{16}H_{22}O_9$ (358.35). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**5177 1-Deoxy-D-glucitol**

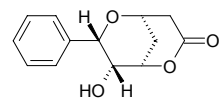
$C_6H_{14}O_5$ (166.18). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

**5178 Deoxygomisin A**

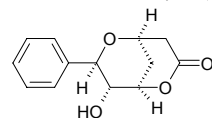
Schizandrin B; Schisandrin B; Wuweizisu B; γ -Schisandrin [61281-37-6] $C_{23}H_{28}O_6$ (400.48). Rhombic crystals (methanol), mp 117–119°C, $[\alpha]_D^{17} = -32^\circ$ (ethanol). Pharm: Antihepatotoxin; antitussive. Source: HONG HUA WU WEI ZI *Schisandra rubriflora*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 0.80%~5.00%, mean content = 2.68%^[5508]). Ref: 2, 4, 39, 658, 1521, 5501, 5508.

**5179 (+)-9-Deoxygoniopyrone**

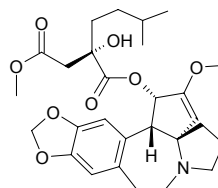
$C_{13}H_{14}O_4$ (234.25). Pharm: Cytotoxic inactive (HepG2, Hep3B, MDA-MB-231, MCF7)^[5056]. Source: TAI WAN GE NA XIANG *Goniothalamus amuyon* (stem: yield = 0.00067%fw), TAI WAN GE NA XIANG *Goniothalamus amuyon* (leaf and stem). Ref: 4686, 5056.

**5180 Deoxygoniopyrone A**

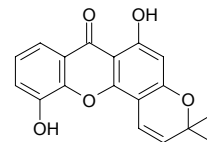
$C_{13}H_{14}O_4$ (234.25). Colorless needles, mp 170–172°C, $[\alpha]_D^{23} = -35.5^\circ$ ($c = 0.07$, MeOH). Pharm: Cytotoxic inactive (HepG2, Hep3B, MDA-MB-231, MCF7). Source: TAI WAN GE NA XIANG *Goniothalamus amuyon* (leaf and stem). Ref: 5056.

**5181 Deoxyharringtonine**

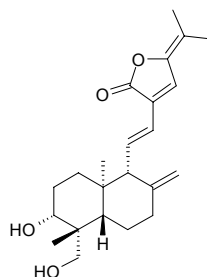
[36804-95-2] $C_{28}H_{37}NO_8$ (515.61). Pharm: Antineoplastic (mouse P₃₈₈, mouse spleen leukemic L₆₁₅). Source: HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], RI BEN CU FEI *Cephalotaxus harringtonia*, SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00060%)^[4675], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. Ref: 2, 5, 660, 4675.

**5182 6-Deoxyisojacareubin**

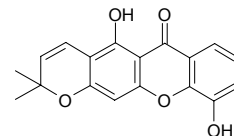
$C_{18}H_{14}O_5$ (310.31). Yellow needles, mp 218–220°C. Source: BIAN DI JIN *Hypericum wightianum* (whole herb). Ref: 4426.

**5183 14-Deoxy-15-isopropylidene-11,12-didehydroandrographolide**

$C_{23}H_{32}O_4$ (372.51). Colorless needles (MeOH), mp 207–209°C, $[\alpha]_D^{28} = -21.8^\circ$ ($c = 0.002$, MeOH). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2036.

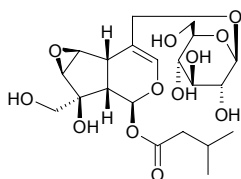
**5184 6-Deoxyjacareubin**

1,5-Dihydroxy-6',6'-dimethylpyrano(2',3':3,2)xanthone $C_{18}H_{14}O_5$ (310.31). Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.48$ mmol/L; HGF, $CC_{50} > 0.65$ mmol/L)^[3025]; anti-hypotension (PAF-induced, $ID_{50} = (14.5 \pm 3.2)$ μ mol/kg, control Ginkgolide B, $ID_{50} = (38.5 \pm 2.7)$ μ mol/kg, CV-3988, $ID_{50} = (2.4 \pm 1.2)$ μ mol/kg)^[5050]. Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00013%dw)^[3025], HAI TANG GUO *Calophyllum inophyllum* (the compound was isolated from the plant by F.S.AL-Jeboury, et al. in 1971)^[5055], HAI TANG GUO *Calophyllum inophyllum* (root)^[5050], HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark)^[3482]. Ref: 3025, 3482, 5050, 5505.

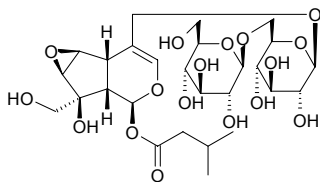


5185 4'-Deoxykanokoside A

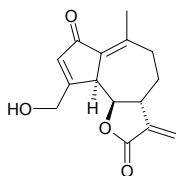
$C_{21}H_{32}O_{12}$ (476.48). Amorphous, $[\alpha]_D^{20} = -122^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytostatic/cytotoxic ($GI_{50} = 1\text{--}9\mu\text{g/mL}$). **Source:** CHANG HUA XIE CAO *Centranthus longiflorus* ssp. *longiflorus*. **Ref:** 2035.

**5186 4'-Deoxykanokoside C**

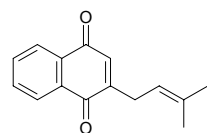
$C_{27}H_{42}O_{17}$ (638.63). Amorphous, $[\alpha]_D^{20} = -107^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytostatic/cytotoxic ($GI_{50} = 1\text{--}9\mu\text{g/mL}$). **Source:** CHANG HUA XIE CAO *Centranthus longiflorus* ssp. *longiflorus*. **Ref:** 2035.

**5187 8-Deoxylactucin**

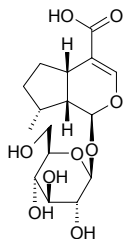
$C_{15}H_{16}O_4$ (260.29). **Pharm:** Antineoplastic; cytotoxic. **Source:** YE WO JU *Lactuca serriola*, JU QU *Cichorium intybus*. **Ref:** 658.

**5188 Deoxylapachol**

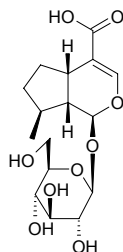
[3568-90-9] $C_{15}H_{14}O_2$ (226.28). **Pharm:** Anthelmintic (termites); irritant (to skin). **Source:** ZI BAI PI *Catalpa ovata*, YOU MU *Tectona grandis*. **Ref:** 658.

**5189 7-Deoxy-8-epi-loganic acid**

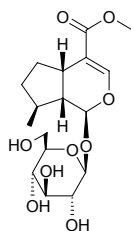
$C_{16}H_{24}O_9$ (360.36). Yellow powder, $[\alpha]_D^{23} = -22.5^\circ$ ($c = 0.50$, C_5H_5N). **Pharm:** Antinociceptive (acetic acid-induced, 50mg/kg, orl, inhibitive percent = -5%, 100mg/kg, orl, inhibitive percent = 49%, 50mg/kg, sc, inhibitive percent = 0%, 100mg/kg, sc, inhibitive percent = 6%; control Aminopyrine, 50mg/kg, orl, inhibitive percent = 87%, 50mg/kg, sc, inhibitive percent = 94%)^[3908]. **Source:** BO SI YI MU CAO *Leonurus persicus*, MA TONG HUA *Incarvillea arguta*, ROU CONG RONG *Cistanche deserticola*. **Ref:** 2448, 2499, 3908.

**5190 C-8-(S)-7-Deoxyloganic acid**

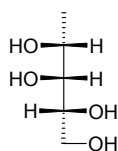
$C_{16}H_{24}O_9$ (360.36). **Source:** BI LU GOU TENG *Uncaria tomentosa* (inner bark). **Ref:** 5161.

**5191 Deoxyloganin**

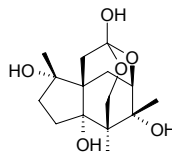
[26660-57-1] $C_{17}H_{26}O_9$ (374.39). **Pharm:** Laxative. **Source:** *Strychnos* sp., *Vinca* sp., *Menyanthes* sp. **Ref:** 658.

**5192 1-Deoxy-D-lyxitol**

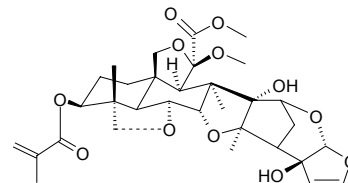
$C_5H_{12}O_4$ (136.15). Amorphous powder, $[\alpha]_D^{24} = -23^\circ$ ($c = 1.1$, MeOH). **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit). **Ref:** 3525.

**5193 8-Deoxymerrilliotholactone**

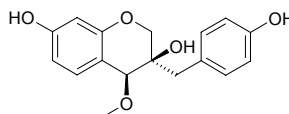
$C_{15}H_{24}O_6$ (300.35). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 4257.

**5194 1-Deoxy-3-methacrylyl-11-methoxymeliacarpinin**

[177795-23-2] $C_{32}H_{42}O_{12}$ (618.68). Colorless powder, mp 274~276°C (chloroform), $[\alpha]_D = -16.3^\circ$ ($c = 0.2$, chloroform). **Pharm:** Cytotoxic (P_{388} , $IC_{50} = 47.0\mu\text{g/mL}$). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 1104.

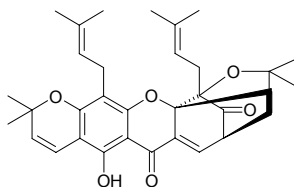
**5195 3'-Deoxy-4-O-methylsappanol**

$C_{17}H_{18}O_5$ (302.33). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.

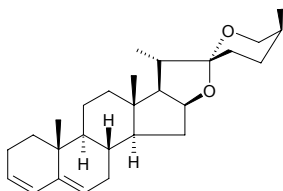


5196 Deoxymorellin

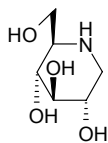
Deoxymorellin C₃₃H₃₈O₆ (530.67). mp 126°C. **Pharm:** Cytotoxic (HeLa and HEL, MIC = 0.39µg/mL). **Source:** TENG HUANG *Garcinia morella*. **Ref:** 1081, 1099, 1172.

**5197 Δ^{3,5}-Deoxyneotigogenin**

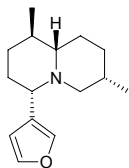
C₂₇H₄₀O₂ (396.62). **Source:** CHA RUI SHU YU *Dioscorea collettii*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*]. **Ref:** 10.

**5198 1-Deoxynojirimycin**

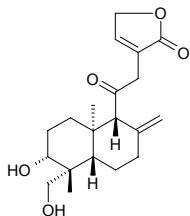
Moranoline [19130-96-2] C₆H₁₃NO₄ (163.17). **Pharm:** α-Glucosidase inhibitor (IC₅₀ = 0.3mmol/L)^[4155]. **Source:** SANG ZHI *Morus alba*. **Ref:** 2170, 4155.

**5199 Deoxynupharidine**

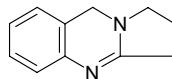
[1143-54-0] C₁₅H₂₃NO (233.36). **Pharm:** Anesthetic (rhizoma of source plant RI BEN PING PENG CAO *Nuphar japonicum*); sedative (rhizoma of source plant RI BEN PING PENG CAO *Nuphar japonicum*). **Source:** RI BEN PING PENG CAO *Nuphar japonicum*, OU ZHOU PING PENG CAO *Nuphar luteum*. **Ref:** 658.

**5200 14-Deoxy-11-oxoandrographolide**

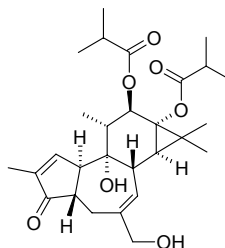
[42895-57-8] C₂₀H₂₈O₅ (348.44). mp 98–100°C. **Source:** CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], JI XING ZI *Impatiens balsamina*. **Ref:** 2, 6.

**5201 Deoxypeganine**

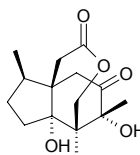
[495-59-0] C₁₁H₁₂N₂ (172.23). mp 87–88°C. **Pharm:** Cholinergic. **Source:** LUO TUO PENG *Peganum harmala*. **Ref:** 6, 658.

**5202 4-Deoxyphorbol 12,13-bis(isobutyrate)**

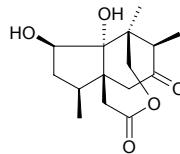
[250258-02-7] C₂₈H₄₀O₇ (488.63). Oil, [α]_D = +47° (c = 0.64, CHCl₃). **Source:** DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. **Ref:** 2365.

**5203 3-Deoxypseudoanisatin**

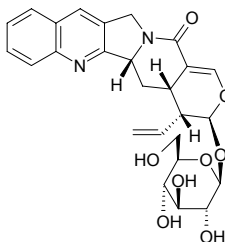
C₁₅H₂₂O₅ (282.34). [α]_D¹⁸ = –40.2° (c = 0.44, MeOH). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 4257.

**5204 6-Deoxypseudoanisatin**

7-Deoxypseudoanisatin C₁₅H₂₂O₅ (282.34). White acicular crystals (acetic ester), mp 235–237°C, [α]_D²⁵ = +15.5° (c = 1.406, ethanol). **Source:** HONG HUI XIANG *Illicium henryi*, MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.0054%_{dw})^[4697]. **Ref:** 100, 315, 1521, 4697.

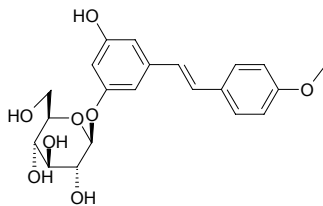
**5205 (3R)-Deoxypumiloside**

C₂₆H₂₈N₂O₈ (496.52). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb). **Ref:** 4527.

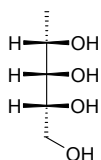


5206 Deoxyrhaponticin

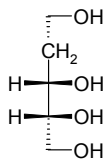
4'-*O*-Methyl piceid [36469-58-6] C₂₁H₂₄O₈ (404.42). **Pharm:** α-Glucosidase inhibitor (IC₅₀ = 280 μg/mL). **Source:** TIAN SHAN DA HUANG *Rheum wittrockii*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 609, 660, 1438, 1780.

**5207 1-Deoxy-D-ribitol**

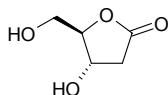
C₅H₁₂O₄ (136.15). **Source:** SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 4177.

**5208 2-Deoxy-D-ribitol**

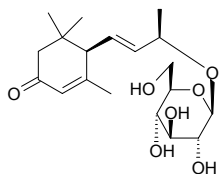
C₅H₁₂O₄ (136.15). Colorless syrup, [α]_D²² = -17°. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit). **Ref:** 3525.

**5209 2-Deoxy-D-ribo-1,4-lactone**

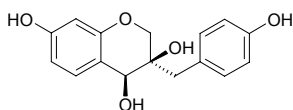
Dihydro-4-hydroxy-5-hydroxymethyl-2(3*H*)-furanone C₅H₈O₄ (132.12). Colorless oil liquid. **Source:** SHI LUO ZI *Anethum graveolens* (fruit), WEI LING XIAN *Clematis chinensis*. **Ref:** 871, 2079, 4177.

**5210 (6*S*,9*R*)-Deoxyroseoside**

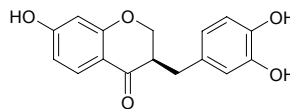
C₁₉H₃₀O₇ (370.45). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb). **Ref:** 4527.

**5211 3'-Deoxysappanol**

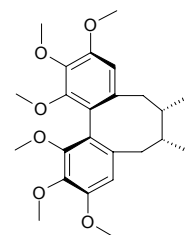
C₁₆H₁₆O₅ (288.30). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.

**5212 3-Deoxysappanone B**

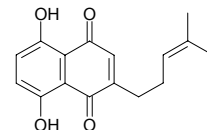
C₁₆H₁₄O₅ (286.29). **Pharm:** Xanthine oxidase inhibitor (noncompetitive inhibitory activity in concentration-dependent manner, IC₅₀ = 36.8 μmol/L, K_i = 27.4 μmol/L, control Allopurinol, competitive type, IC₅₀ = 2.5 μmol/L, K_i = 1.80 μmol/L). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.

**5213 Deoxyschizandrin**

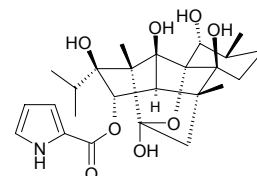
Wuweizisu A; Schizandrin A [61281-38-7] C₂₄H₃₂O₆ (416.52). [α]_D²³ = +86.7° (c = 0.30, CHCl₃). **Pharm:** Antihepatotoxin (mus, due to carbon tetrachloride, promotes markedly glycogenic in liver); NFAT transcription inhibitor (IC₅₀ = (7.23±0.21) μmol/L, control Cyclosporin A, IC₅₀ = (1.20±0.29) nmol/L)^[5343]. **Source:** HONG HUA WU WEI ZI *Schisandra rubriflora*, HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 12 origins = 0.07%~5.65%, mean content = 1.65%^[5508]), WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 0.17%~1.10%, mean content = 0.52%^[5508]). **Ref:** 2, 658, 5343, 5508.

**5214 Deoxyshikonin**

[43043-74-9] C₁₆H₁₆O₄ (272.30). **Pharm:** Antibacterial (*Staphylococcus aureus* 209P, MIC = 40 μg/kg; *Staphylococcus aureus* TPR27, MIC = 20 μg/kg; *Staphylococcus epidermidis* TPR25, MIC = 80 μg/kg; *Sarcina lutea* NIHJ, MIC = 40 μg/kg; *Bacillus subtilis*, MIC = 40 μg/kg). **Source:** JIA ZI CAO *Arnebia guttata*, XIN ZANG JIA ZI CAO *Arnebia euchroma* (root: mean content of 3 origins = 0.174%^[5508]), ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2, 658, 660, 5501, 5508.

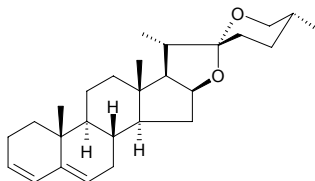
**5215 20-Deoxyspiganthine**

C₂₅H₃₅NO₈ (477.56). Crystals (CHCl₃:Me₂CO = 1:1), mp 144~147°C, [α]_D = +12° (c = 0.1). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 54 nmol/L). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

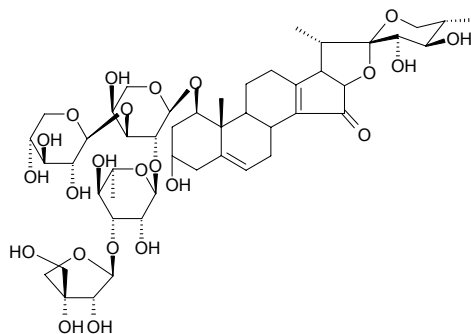


5216 4^{3,5}-Deoxytigogenin

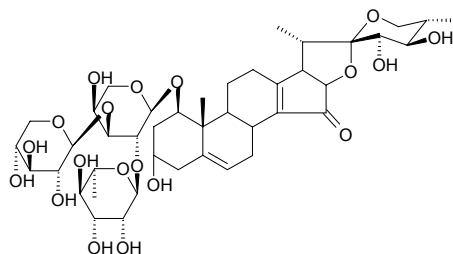
$C_{27}H_{40}O_2$ (396.62). Source: CHA RUI SHU YU *Dioscorea collettii*, CHAI HUANG JIANG *Dioscorea nipponica* ssp. *rosthornii*, CHUAN LONG SHU YU *Dioscorea nipponica*, DUN YE SHU YU *Dioscorea zingiberensis*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], FU ZHOU SHU YU *Dioscorea futschauensis*, HUANG SHAN YAO *Dioscorea panthaica*, MIAN BI XIE *Dioscorea septemloba*, SHU KUI YE SHU YU *Dioscorea althaeoides*, XIAN XI SHU YU *Dioscorea gracillima*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*. Ref: 6, 10, 660.

**5217 Deoxytrillenoid A**

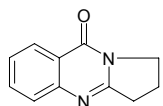
$C_{47}H_{70}O_{23}$ (1003.07). Amorphous powder, $[\alpha]_D^{25} = -113.2^\circ$ ($c = 0.8$, MeOH). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

**5218 Deoxytrillenoid B**

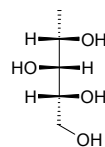
$C_{42}H_{62}O_{19}$ (870.95). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

**5219 Deoxyvasicinone**

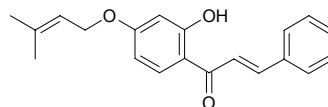
[530-53-0] $C_{11}H_{10}N_2O$ (186.22). mp 109~110°C. Pharm: Cholinergic. Source: LUO TUO HAO *Peganum nigellastrum*, LUO TUO PENG *Peganum harmala*, LUO TUO PENG ZI *Peganum harmala*. Ref: 6, 658.

**5220 1-Deoxy-D-xylitol**

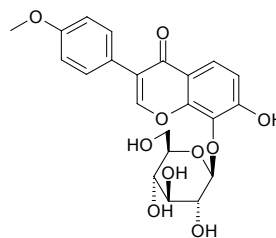
$C_5H_{12}O_4$ (136.15). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

**5221 Derricidin**

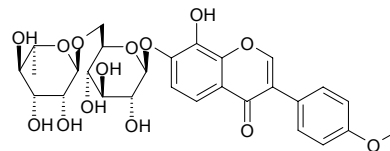
$C_{20}H_{20}O_3$ (308.38). Source: HONG E JI XUE TENG *Milletia erythrocalyx* (stem cortex; yield = 0.0013%dw). Ref: 4624.

**5222 Derriscandenoid A**

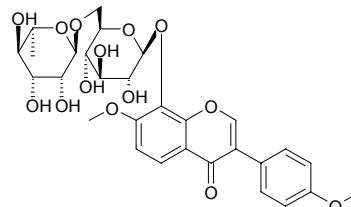
7,8-Dihydroxy-4'-methoxyisoflavone-8-O-β-glucopyranoside $C_{22}H_{22}O_{10}$ (446.41). Colorless viscous gum, $[\alpha]_D^{29} = -55.56^\circ$ ($c = 0.36$, $CHCl_3$). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 1976.

**5223 Derriscandenoid B**

7,8-Dihydroxy-4'-methoxyisoflavone 7-O-[α-rhamnopyranosyl-(1→6)]-β-glucopyranoside $C_{28}H_{32}O_{14}$ (592.56). Colorless viscous gum, $[\alpha]_D^{29} = -51.47^\circ$ ($c = 1.36$, $CHCl_3$). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 1976.

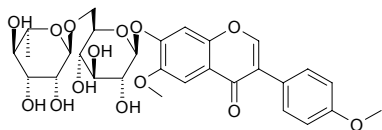
**5224 Derriscandenoid C**

8-Hydroxy-4',7-dimethoxyisoflavone 8-O-[α-rhamnopyranosyl-(1→6)]-β-glucopyranoside $C_{29}H_{34}O_{14}$ (606.59). Colorless viscous gum, $[\alpha]_D^{29} = -40.54^\circ$ ($c = 0.74$, $CHCl_3$). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 1976.

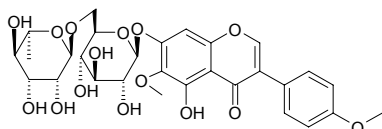


5225 Derriscandenoside D

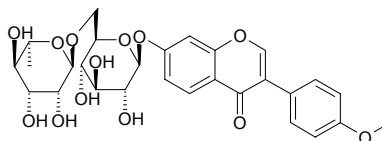
Afromosin 7-*O*-[α -rhamnopyranosyl-(1 \rightarrow 6)]- β -glucopyranoside
 $C_{29}H_{34}O_{14}$ (606.59). Colorless viscous gum, $[\alpha]_D^{29} = -68.18^\circ$ ($c = 0.44$, $CHCl_3$). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 1976.

**5226 Derriscandenoside E**

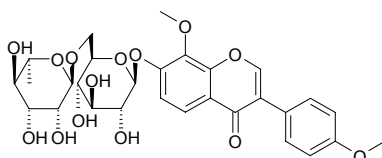
$C_{29}H_{34}O_{15}$ (622.59). Colorless viscous gum, $[\alpha]_D^{29} = -90.90^\circ$ ($c = 0.11$, $CHCl_3$). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 1976.

**5227 Derriscandenoside A**

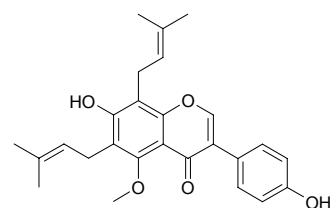
$C_{28}H_{32}O_{13}$ (576.56). Light yellow powder, mp 115–117°C. Pharm: Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 18%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]. Source: PAN YUAN YU TENG *Derris scandens*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 664, 5319.

**5228 Derriscandenoside B**

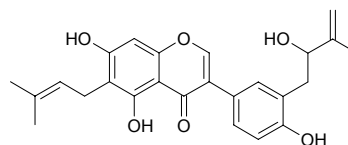
$C_{29}H_{34}O_{14}$ (606.59). Light yellow powder, mp 145–147°C. Source: PAN YUAN YU TENG *Derris scandens*. Ref: 664.

**5229 Derrisoflavone A**

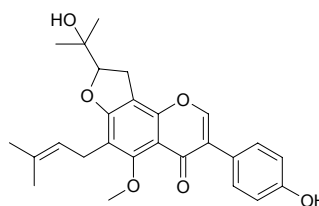
$C_{26}H_{28}O_5$ (420.51). Pale yellow amorphous, with yellow fluorescence. Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 500–1000 μ g/mL)^[2347]; antioxidant (DPPH scavenger, ScRt = 81.58%, control BHT, ScRt = 71.5%)^[3810]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 16 μ g/mL, Vancomycin, MIC = 0.5 μ g/mL; MRSA SK1, MIC = 4 μ g/mL, Vancomycin, MIC = 1.0 μ g/mL)^[3810]; increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 4.0mg/kg, 7.5mmHg)^[3810]. Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347, 3810.

**5230 Derrisoflavone B**

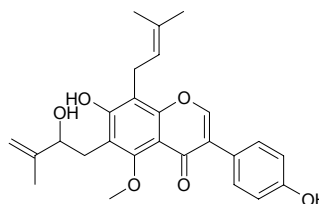
$C_{25}H_{26}O_6$ (422.48). Pale brown amorphous, $[\alpha]_D = +3.0^\circ$ ($c = 0.054$, EtOH). Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 500–1000 μ g/mL). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347.

**5231 Derrisoflavone C**

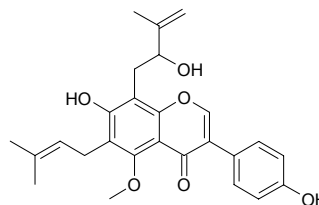
$C_{26}H_{28}O_6$ (436.51). Colorless amorphous, $[\alpha]_D = -63.8^\circ$ ($c = 0.043$, EtOH). Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 250 μ g/mL). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347.

**5232 Derrisoflavone D**

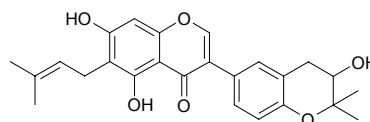
$C_{26}H_{28}O_6$ (436.51). Colorless amorphous, $[\alpha]_D = -10.8^\circ$ ($c = 0.088$, EtOH). Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 500–1000 μ g/mL). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347.

**5233 Derrisoflavone E**

$C_{26}H_{28}O_6$ (436.51). Pale brown amorphous, $[\alpha]_D = +2.0^\circ$ ($c = 0.089$, EtOH). Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 500–1000 μ g/mL). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347.

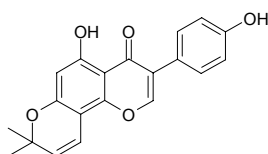
**5234 Derrisoflavone F**

$C_{25}H_{26}O_6$ (422.48). Colorless amorphous, $[\alpha]_D = +20.6^\circ$ ($c = 0.12$, EtOH). Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 500–1000 μ g/mL). Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347.

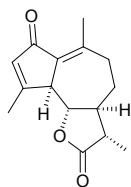


5235 Derrone

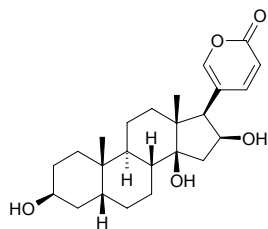
5-Hydroxy-3-(4-hydroxyphenyl)-8,8-dimethyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one [76166-59-1] C₂₀H₁₆O₅ (336.35). **Pharm:** Antibacterial (*Escherichia coli*, MIA = 100.0µg, control Chloramphenicol, MIA = 0.001µg; *Bacillus subtilis*, MIA = 20.0µg, Chloramphenicol, MIA = 0.001µg; *Staphylococcus aureus*, MIA = 0.1µg, Chloramphenicol, MIA = 0.001µg)^[3785]; antifungal (*Candida mycoderma*, MIA = 1.00µg, Miconazole, MIA = 0.0001µg)^[3785]; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100µmol/L, InRt = (4.0±1.0)%, inactive, control Silybin, 100µmol/L, InRt = (77.0±5.5)%^[4095]). **Source:** CU ZHUANG YU TENG *Derris robusta* (seed), GUANG BU DING GONG TENG *Erycibe expansa*, *Bolusanthus speciosus* (root wood). **Ref:** 3785, 4095.

**5236 Desacetoxymatricarin**

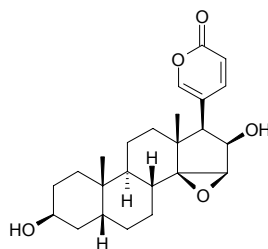
[17946-87-1] C₁₅H₁₈O₃ (246.31). **Pharm:** Antineoplastic; cytotoxic; plant growth inhibitor. **Source:** BAN GUAN MU MU JU *Matricaria suffruticosa*, *Achillea* sp., *Artemisia* sp. **Ref:** 658.

**5237 Desacetylbufotalin**

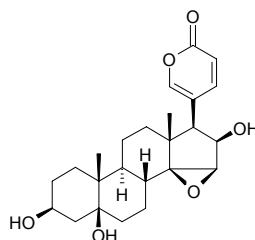
C₂₄H₃₄O₅ (402.54). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.79µg/mL; HL-60, IC₅₀ = 0.025µg/mL; MH-60, IC₅₀ > 25µg/mL)^[3082]. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 2, 6, 3082.

**5238 Desacetylcinobufagin**

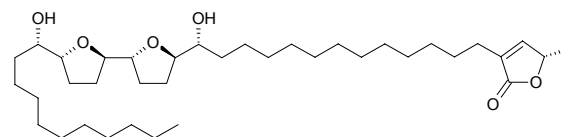
C₂₄H₃₂O₅ (400.52). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.44µg/mL; HL-60, IC₅₀ = 1µg/mL; MH-60, IC₅₀ > 25µg/mL)^[3082]. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 2, 6, 3082.

**5239 Desacetylcinobufotalin**

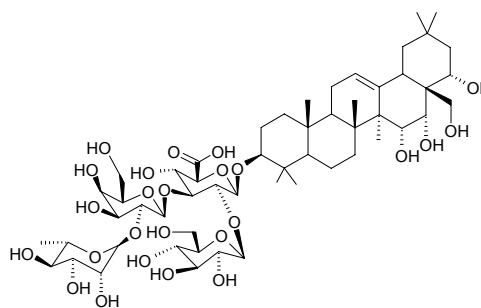
C₂₄H₃₂O₆ (416.52). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 10µg/mL; HL-60, IC₅₀ = 4.3µg/mL; MH-60, IC₅₀ > 25µg/mL)^[3082]. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 2, 6, 3082.

**5240 Desacetylvaricin**

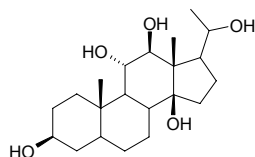
[98767-45-4] C₃₇H₆₆O₆ (606.93). Colorless oil, [α]_D²⁵ = +30.3° (c = 0.26, CHCl₃). **Pharm:** Cytotoxic (hmn hepatoma cell lines HepG2, IC₅₀ = 0.062ng/mL, control Adriamycin, IC₅₀ = 0.241µg/mL; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, IC₅₀ = 0.071ng/mL, Adriamycin, IC₅₀ = 0.450µg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 5377.

**5241 Desacyl-boninsaponin A**

C₅₄H₈₈O₂₅ (1137.29). **Source:** RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00066%fw). **Ref:** 4730.

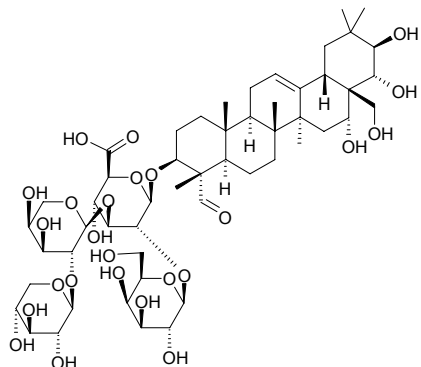
**5242 Desacylkondurangogenin C**

C₂₁H₃₆O₅ (368.52). White amorphous powder, mp 127°C, [α]_D = +135.6° (c = 0.14, CHCl₃). **Source:** ROU LEI NIU NAI CAI *Marsdenia roylei* (aerial parts). **Ref:** 3490.

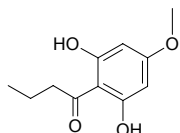


5243 Desacyl-theasaponin E

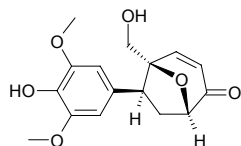
$C_{52}H_{82}O_{25}$ (1107.22). Source: PU ER CHA *Camellia sinensis* var. *assamica* (seed and leaf). Ref: 4537.

**5244 Desaspidinol**

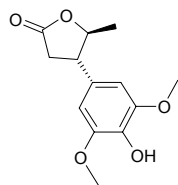
[437-72-9] $C_{11}H_{14}O_4$ (210.23). Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6, 1521.

**5245 Descurainin**

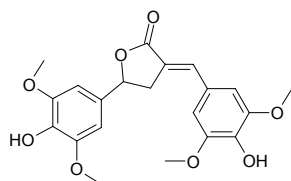
5-Hydroxymethyl-6-(4-hydroxy-3,5-dimethoxyphenyl)-8-oxa-bicyclo[3,2,1]oct-3-en-2-one $C_{16}H_{18}O_6$ (306.32). Colorless needles, mp 193~195°C, $[\alpha]_D^{20} = +1.7^\circ$ ($c = 0.23$, MeOH). Source: BO NIANG HAO *Descurainia Sophia* (seeds). Ref: 2548.

**5246 Descurainolide A**

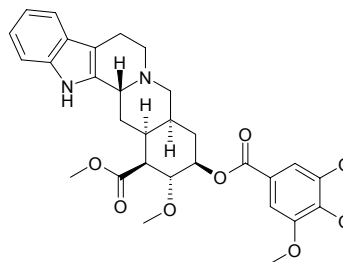
4-(4-Hydroxy-3,5-dimethoxy-phenyl)-5-methyl-dihydro-furan-2-one $C_{13}H_{16}O_5$ (252.27). Colorless needles, mp 117~118°C, $[\alpha]_D^{20} = +0.3^\circ$ ($c = 0.19$, Me₂CO). Source: BO NIANG HAO *Descurainia Sophia* (seeds). Ref: 2548.

**5247 Descurainolide B**

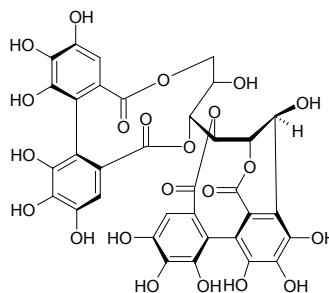
trans-3-(4-Hydroxy-3,5-dimethoxy-benzylidene)-5-(4-hydroxy-3,5-dimethoxy-phenyl)-dihydrofuran-2-one $C_{21}H_{22}O_8$ (402.40). Colorless needles, mp 201~203°C, $[\alpha]_D^{20} = +2.3^\circ$ ($c = 0.37$, MeOH). Source: BO NIANG HAO *Descurainia Sophia* (seeds). Ref: 2548.

**5248 Deserpidine**

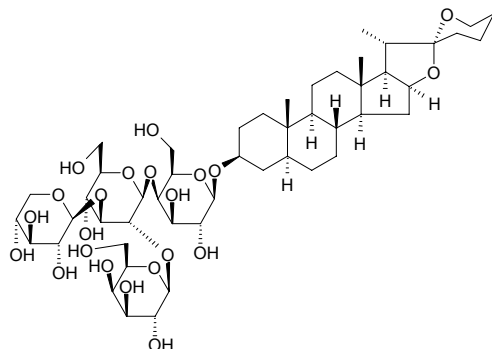
[131-01-1] $C_{32}H_{38}N_2O_8$ (578.67). Three crystals types (methanol): α -, mp 228~232°C; β -, mp 230~232°C; γ -, mp 138°C and 226~232°C (two-melting points, 173 solidifying), $[\alpha]_D^{20} = -163^\circ$ ($c = 0.5$, pyridine). Pharm: CNS depressant; antihypertensive. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, GU BA LUO FU MU *Rauwolfia cubana*, HAI BIN LUO FU MU *Rauwolfia littoralis*, HUI BAI MAO LUO FU MU *Rauwolfia canescens*, YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 661.

**5249 5-Desgalloylstachyurin**

$C_{34}H_{24}O_{22}$ (784.56). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.015%fw). Ref: 4695.

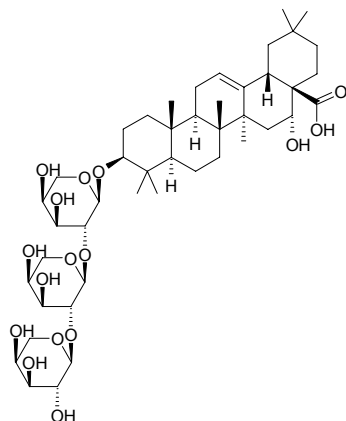
**5250 Desglucolanatigonin II**

[40043-49-0] $C_{50}H_{82}O_{22}$ (1035.20). Amorphous powder, $[\alpha]_D^{28} = -38.7^\circ$ ($c = 0.10$, chloroform : methanol = 1:1). Pharm: cAMP phosphodiesterase inhibitor ($IC_{50} = 123\mu\text{mol/L}$). Source: CI JI LI *Tribulus terrestris*. Ref: 706, 738, 951.

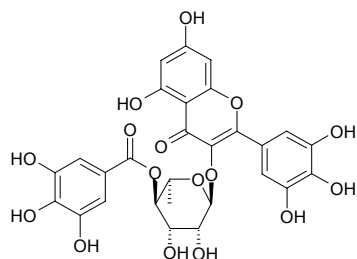


5251 Desglucosusennin

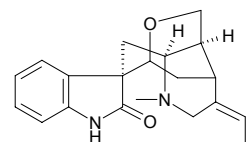
C₄₅H₇₂O₁₆ (869.07). **Pharm:** Anthelmintic. **Source:** QU CHONG HE HUAN *Albizzia anthelmintica*. **Ref:** 658.

**5252 Desmanthin 2**

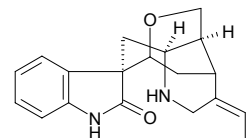
[85541-03-3] C₂₈H₂₄O₁₆ (616.49). Yellow powder, mp 196°C. **Source:** YI LI NUO HE HUAN CAO *Desmanthus illinoensis*. **Ref:** 1521.

**5253 N-Desmethoxyhumantenine**

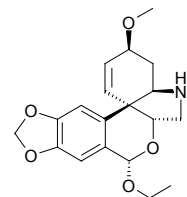
C₂₀H₂₄N₂O₂ (324.43). mp 238–240°C, [α]_D = –188.5°. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14.

**5254 N-Desmethoxyrankinidine**

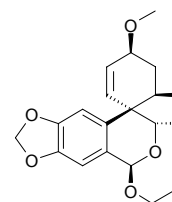
[122590-02-7] C₁₉H₂₂N₂O₂ (310.40). mp 258–260°C, [α]_D = –169.2°. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14.

**5255 N-Desmethyl-8α-ethoxy pretazettine**

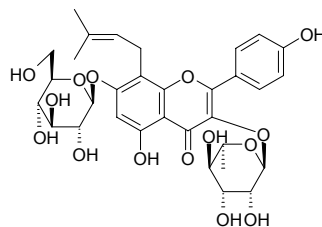
C₁₉H₂₃NO₅ (345.40). Amorphous, [α]_D²⁸ = +160.63° (c = 0.09, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (234±13)μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2)μmol/L)^[4952]. **Source:** LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. **Ref:** 2369, 4952.

**5256 N-Desmethyl-8β-ethoxy pretazettine**

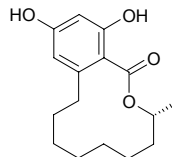
C₁₉H₂₃NO₅ (345.40). Amorphous, [α]_D²⁸ = +34° (c = 0.14, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (419±8)μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2)μmol/L)^[4952]. **Source:** LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. **Ref:** 2369, 4952.

**5257 Des-O-methylcariin**

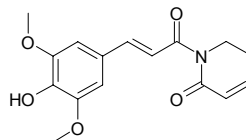
Epimesoside A [39012-04-9] C₃₂H₃₈O₁₅ (662.65). mp 235–237°C. **Source:** CU MAO YIN YANG HUO *Epimedium acuminatum*, CHUAN E YIN YANG HUO *Epimedium fargesii*, YIN YANG HUO *Epimedium brevicornum*, YIN YANG HUO GEN *Epimedium brevicornum*. **Ref:** 2, 6, 112, 514, 567, 624.

**5258 Des-O-methylasiodiplodin**

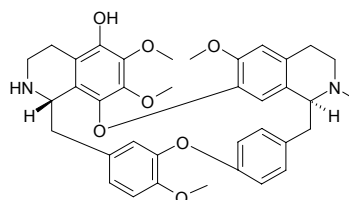
C₁₆H₂₂O₄ (278.35). **Pharm:** Prostaglandin biosynthesis inhibitor (20μg/mL, InRt = 62.5%). **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**5259 4'-Desmethylpiplartine**

N-(4'-Hydroxy-3',5'-dimethoxycinnamoyl)-2'-pyridin-2-one C₁₆H₁₇NO₅ (303.32). Yellow oil. **Source:** *Piper cenocladum* (leaf). **Ref:** 3896.

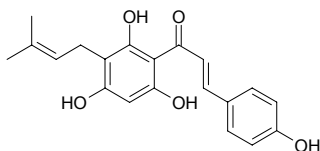
**5260 N-Desmethylthalidezine**

[65230-06-0] C₃₇H₄₀N₂O₇ (624.74). Colorless acicular crystals (methanol), mp 173–174°C, [α]_D²⁵ = +280° (c = 0.14, methanol). **Pharm:** Antihypertensive (dog, rat). **Source:** BING GUO TANG SONG CAO *Thalictrum podocarpum*. **Ref:** 661.

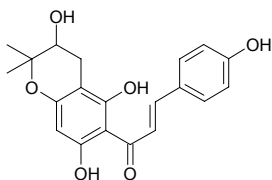


5261 Desmethylxanthohumol

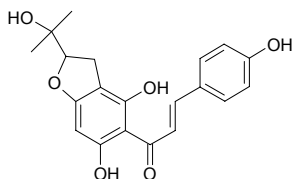
$C_{20}H_{20}O_5$ (340.38). Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**5262 Desmethylxanthohumol B**

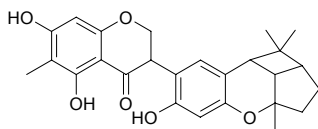
(±)-{(2*E*)-1-(3,4-Dihydro-3,5,7-trihydroxy-2,2-dimethyl-2*H*-1-benzopyran-6-yl)-3-(4-hydroxyphenyl)-2-propen-1-one}; DMX-B $C_{20}H_{20}O_6$ (356.38). Yellow orange solid. Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**5263 Desmethylxanthohumol J**

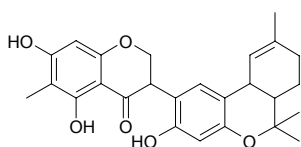
(2*E*)-1-[2,3-Dihydro-4,6-dihydroxy-2-(1-hydroxy-1-methylethyl)-7-benzofuranyl]-3-(4-hydroxyphenyl)-2-propen-1-one; DMX-J $C_{20}H_{20}O_6$ (356.38). Yellow orange solid. Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**5264 Desmodianone D**

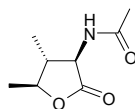
2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(1*a*,2,3,3*a*,8*b*,8*c*-hexahydro-6-hydroxy-1,1,3*a*-trimethyl-1*H*-4-oxabenzof[*f*]cyclobut[*c,d*]inden-7-yl)-4*H*-1-benzopyran-4-one $C_{26}H_{28}O_6$ (436.51). Source: DAN HUI BAI SHAN MA HUANG *Desmodium canum*. Ref: 3444.

**5265 Desmodianone E**

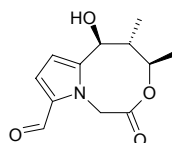
2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(6*a*,7,8,10*a*-tetrahydro-3-hydroxy-6,6,9-trimethyl-6*H*-dibenzo[*b,d*]pyran-2-yl)-4*H*-1-benzopyran-4-one $C_{26}H_{28}O_6$ (436.51). Source: DAN HUI BAI SHAN MA HUANG *Desmodium canum*. Ref: 3444.

**5266 Desmodilactone**

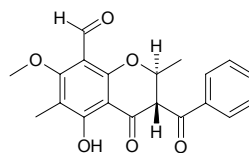
$C_8H_{13}NO_3$ (171.20). Colorless massive crystals, mp 84~85°C, $[\alpha]_D^{18} = -16.4^\circ$ ($c = 0.11$, MeOH). Source: GUANG JIN QIAN CAO *Desmodium styracifolium*. Ref: 260.

**5267 Desmodimine**

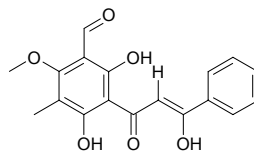
[150036-83-2] $C_{12}H_{15}NO_4$ (237.26). Colorless gummy substance. Source: GUANG JIN QIAN CAO *Desmodium styracifolium*. Ref: 260.

**5268 Desmosdumotin A**

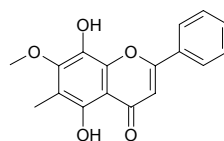
5-Hydroxy-7-methoxy-8-formyl-3-benzoyl-2,6-dimethyl-2*S*,3*R*-dihydrochromone $C_{20}H_{18}O_6$ (354.36). Yellow massive crystals (CHCl₃-MeOH), mp 124~125°C. Source: MAO YE JIA YING ZHAO GEN *Desmos dumosus*. Ref: 685.

**5269 Desmosdumotin D**

2-Methoxy-3-methyl-4,6-dihydroxy-5(3'-hydroxyl)cinnamoylbenzaldehyde $C_{18}H_{16}O_6$ (328.32). Yellow acicular crystals (CHCl₃-MeOH), mp 147~148°C. Pharm: Anti-HIV (a lead candidate)^[4881]. Source: MAO YE JIA YING ZHAO GEN *Desmos dumosus*. Ref: 685, 4881.

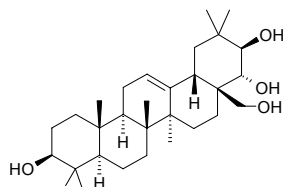
**5270 Desmosflavone**

5-Hydroxy-7-methoxy-6,8-dimethylflavone $C_{17}H_{14}O_5$ (298.30). Orange sandy crystals (chloroform), mp 197~198°C. Source: JIA YING ZHAO *Desmos cochinchinensis* [Syn. *Desmos chinensis*]. Ref: 312.

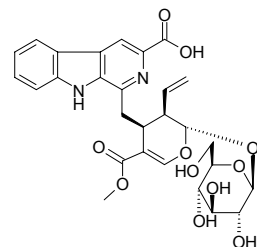


5271 16-Desoxybarringtonol C

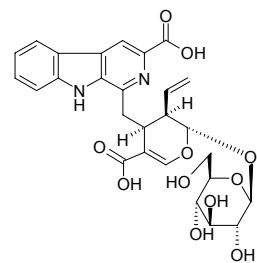
$C_{30}H_{50}O_4$ (474.73). mp 288.0~290.5°C. Source: RI BEN QI YE SHU *Aesculus turbinata*. Ref: 6.

**5272 Desoxycordifoline**

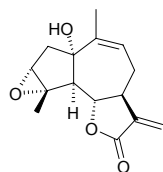
$C_{28}H_{30}N_2O_{11}$ (570.56). mp 144~146°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178.

**5273 Desoxycordifolinic acid**

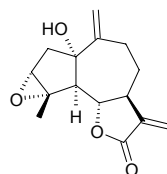
[88839-94-5] $C_{27}H_{28}N_2O_{11}$ (556.53). mp 206~208°C, $[\alpha]_D = -45.7^\circ$ ($c = 0.126$, MeOH). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178.

**5274 8-Desoxy-3 α ,4 α -epoxyrupiculin-A**

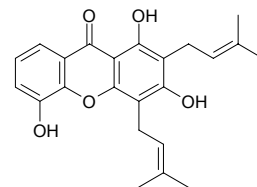
$C_{15}H_{18}O_4$ (262.31). Colorless gum, $[\alpha]_D^{22} = -22^\circ$ ($c = 0.1$, EtOH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 1.7\mu\text{g/mL}$). Source: *Warionia saharae* (leaf: yield = 0.0004%dw). Ref: 4620.

**5275 8-Desoxy-3 α ,4 α -epoxyrupiculin-B**

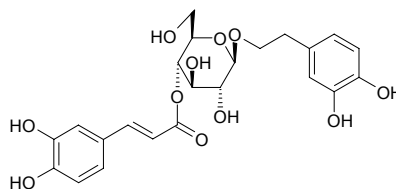
$C_{15}H_{18}O_4$ (262.31). Colorless gum, $[\alpha]_D^{22} = +46^\circ$ ($c = 0.1$, EtOH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 2.0\mu\text{g/mL}$). Source: *Warionia saharae* (leaf: yield = 0.0008%dw). Ref: 4620.

**5276 8-Desoxygartanin**

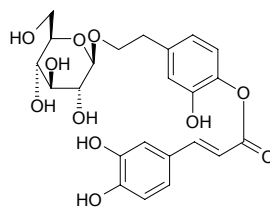
$C_{23}H_{24}O_5$ (380.44). Pharm: Antioxidant (DPPH scavenger, $10\mu\text{mol/L}$, ScRt = 8%, control BHT, $10\mu\text{mol/L}$, ScRt = 43%)^[5319], cytotoxic (KB cancer cell lines, inactive; BC-1, inactive; NCI-H187, $IC_{50} = 16.88\mu\text{g/mL}$ Ellipticine, $IC_{50} = 0.39\mu\text{g/mL}$)^[1619]; antibacterial (MRSA, MIC = $16\mu\text{g/mL}$; control Vancomycin, MIC = $2\mu\text{g/mL}$)^[4735]. Source: DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0060%dw)^[1619], DAO NIAN ZI *Garcinia mangostana* (fruit hull), HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00047%dw)^[4735], MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 1619, 3066, 4735, 5319, 5491.

**5277 Desrhamnosylacteoside**

$C_{23}H_{26}O_{11}$ (478.46). Source: CHANG YE CHE QIAN *Plantago lanceolata*. Ref: 5020.

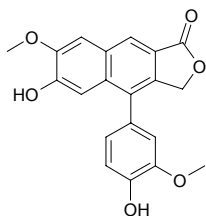
**5278 Desrhamnosylisoacteoside**

$C_{23}H_{26}O_{11}$ (478.46). Source: CHANG YE CHE QIAN *Plantago lanceolata*. Ref: 5020.

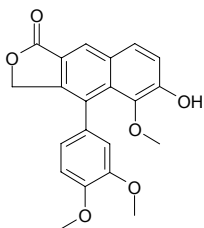


5279 Detetrahydroconidendrin

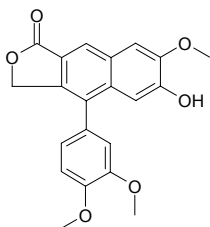
$C_{20}H_{16}O_6$ (352.35). **Pharm:** Antibacterial (18 methicillin-resistant *Staphylococcus aureus* MRSA, MIC = 4, 8, 16, or $>64\mu\text{g/mL}$)^[3052], antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine)^[4791]. **Source:** DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.00017%dw)^[3052], HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.0051%)^[4791]. **Ref:** 3052, 4791.

**5280 Detetrahydroconidendrin B**

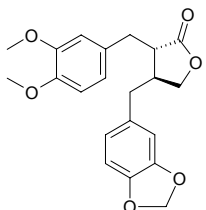
$C_{21}H_{18}O_6$ (366.37). Brown amorphous solid. **Source:** DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.000057%dw). **Ref:** 3052.

**5281 Detetrahydroconidendrin C**

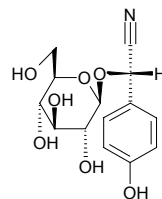
$C_{21}H_{18}O_6$ (366.37). Yellowish oil. **Source:** DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.000042%dw). **Ref:** 3052.

**5282 Dextrobursehernin**

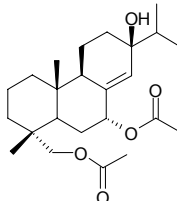
$C_{21}H_{22}O_6$ (370.41). Colorless liquid, $[\alpha]_D^{25} = +36.0^\circ$ ($c = 1.0$). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**5283 Dhuririn**

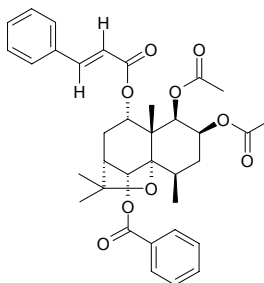
p-Hydroxymandelonitril-glucoside [21401-21-8] $C_{14}H_{17}NO_7$ (311.29). **Pharm:** Toxin. **Source:** AO ZHOU JIAN GUO *Macadamia ternifolia*, GAO LIANG *Sorghum vulgare*, KUN LAN SHU *Trochodendron aralioides*, LIU LI JU *Borago officinalis*, YE YING SU *Papaver nudicaule*, *Platanus* sp. **Ref:** 6, 658, 1521.

**5284 7 α ,18-Diacetoxyabiet-8(14)-en-13 β -ol**

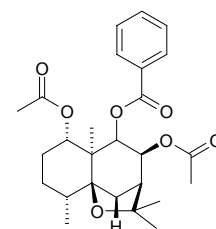
$C_{24}H_{38}O_5$ (406.57). Colorless oil, $[\alpha]_D = +14.7^\circ$ ($c = 1.0$, CHCl_3). **Pharm:** Cytotoxic (A549, $\text{IC}_{50} > 5\mu\text{g/mL}$; H116, $\text{IC}_{50} > 5\mu\text{g/mL}$; PSN1, $\text{IC}_{50} > 5\mu\text{g/mL}$; T98G, $\text{IC}_{50} > 5\mu\text{g/mL}$; SKBR3, $\text{IC}_{50} > 5\mu\text{g/mL}$). **Source:** BEI FEI XUE SONG *Cedrus atlantica* (cone). **Ref:** 5248.

**5285 1 β ,2 β -Diacetoxy-6 α -benzoyloxy-9 α -cinnamoyloxy- β -dihydro-agarofuran**

$C_{35}H_{40}O_9$ (604.70). **Pharm:** NO production inhibitor (mus, macrophage RAW264.7 cells, activated by LPS, $\text{IC}_{50} = 43.7\mu\text{mol/L}$, control Aminoquanidine $\text{IC}_{50} = 18.2\mu\text{mol/L}$). **Source:** NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2584.

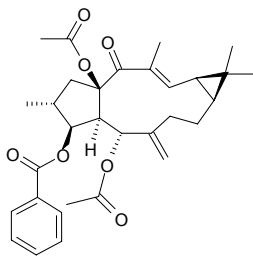
**5286 1 α ,8 β -Diacetoxy-9 β -benzoyloxydihydro- β -agarofuran**

$C_{26}H_{34}O_7$ (458.56). White amorphous powder, $[\alpha]_D^{25} = -8.68^\circ$ ($c = 0.12$, MeOH). **Pharm:** Intestinal smooth muscle relaxant (*in vitro*, rat ileum, $1\mu\text{g/mL}$, relaxant effect = $(7.3 \pm 1.7)\%$, control Papaverine, relaxant effect = $(28.6 \pm 7.3)\%$). **Source:** DENG YOU TENG ZI *Celastrus paniculatus*. **Ref:** 5002.



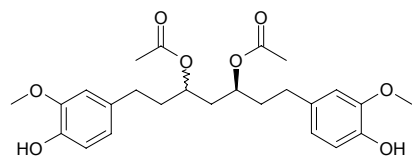
5287 (2*R,3*S**,4*R**,5*R**,9*S**,11*S**,15*R**)-5,15-Diacetoxy-3-benzoyloxy-14-oxolathyrin-6(17),12*E*-diene**

Euphorbia factor L₃ C₃₁H₃₈O₇ (522.64). Colorless oil. Source: HAI BO NA DA JI *Euphorbia hyberna*. Ref: 1521, 2153.



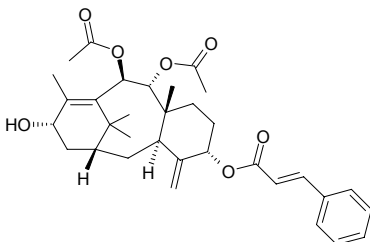
5288 (3*S*,5*S*)-3,5-Diacetoxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptane

C₂₅H₃₂O₈ (460.53). Colorless oil, $[\alpha]_D^{26} = +7.0^\circ$ ($c = 0.68$, CHCl₃). Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.



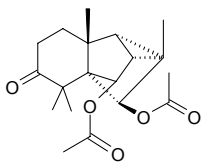
5289 9*α*,10*β*-Diacetoxy-5*α*-cinnamoyloxytaxa-4(20),11-dien-13*α*-ol

C₃₃H₄₂O₇ (550.70). Colorless gum, $[\alpha]_D^{24} = -13^\circ$ ($c = 0.03$, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (seed). Ref: 3991.



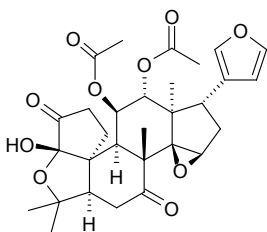
5290 1*R*,5*R*-Diacetoxycyclomytilayan-10-one

C₁₉H₂₆O₅ (334.42). Amorphous powder, $[\alpha]_D^{20} = -23.2^\circ$ ($c = 0.9$, MeOH). Source: *Bazzania madagassa*. Ref: 4458.



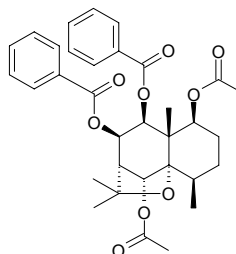
5291 11*β*,12*α*-Diacetoxy-1-deoxy-14*β*,15*β*-epoxy-3*β*-hydroxy-2-oxoneotecleanin

C₃₀H₃₆O₁₀ (556.62). Colorless needle-like crystals (MeCN-H₂O), mp 179~180°C. Source: *Turraea wakefieldii* (root cortex). Ref: 3459.



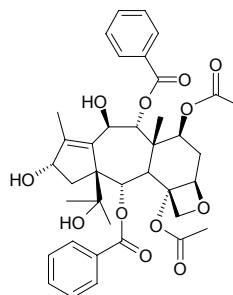
5292 1*β*,6*α*-Diacetoxy-8*β*,9*β*-dibenzoyloxy-*β*-dihydroagarofuran

C₃₃H₃₈O₉ (578.67). Pharm: NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). Source: NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2584.



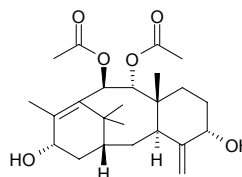
5293 4*α*,7*β*-Diacetoxy-2*α*,9*α*-dibenzoyloxy-5*β*,20-epoxy-10*β*,13*α*,15-trihydroxy-11(15→1)-abeo-taxene

C₃₈H₄₄O₁₂ (692.77). $[\alpha]_D = -8^\circ$ (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.



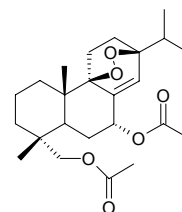
5294 9*α*,10*β*-Diacetoxy-5*α*,13*α*-dihydroxy-4(20),11-taxadiene

Diacetoxylidihydroxytaxadiene C₂₄H₃₆O₆ (420.55). mp 235°C, $[\alpha]_D = +146^\circ$ (from *Taxus baccata*), mp 234~236°C, $[\alpha]_D = +144.2^\circ$ (CHCl₃) (from *Taxus mairei*). Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.



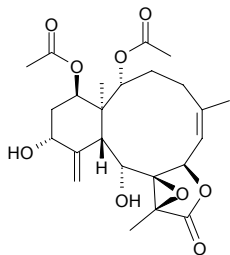
5295 7*α*,18-Diacetoxy,9*β*,13*β*-epi-dioxiabiet-8(14)-ene

C₂₄H₃₆O₆ (420.55). Colorless oil, $[\alpha]_D = +6.2^\circ$ ($c = 0.13$, CHCl₃). Pharm: Cytotoxic (A549, IC₅₀ > 5μg/mL; H116, IC₅₀ > 5μg/mL; PSN1, IC₅₀ > 5μg/mL; T98G, IC₅₀ > 5μg/mL; SKBR3, IC₅₀ > 5μg/mL). Source: BEI FEI XUE SONG *Cedrus atlantica* (cone). Ref: 5248.



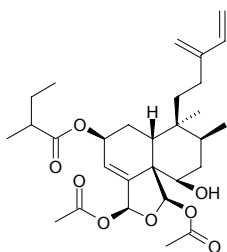
5296 (1R,2R,5Z,7R,8S,9R,10R,12R,14R,17S)-2,14-Diacetoxy-8,17-epoxy-9,12-dihydroxybriara-5,11(20)-dien-19-one

$C_{24}H_{32}O_9$ (464.52). Colorless oil, $[\alpha]_D^{25} = +113^\circ$ ($c = 0.1$, $CHCl_3$); $[\alpha]_D^{25} = +115.1^\circ$ ($c = 0.08$). Source: CUI DENG XIN LIU SHAN HU *Junceella fragilis*, LEI DENG XIN LIU SHAN HU *Junceella gemmacea*. Ref: 2554.



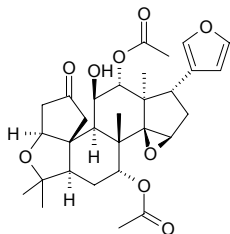
5297 rel-(2S,5R,6R,8S,9S,10R,18S,19R)-diacetoxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene

$C_{29}H_{42}O_8$ (518.65). Pharm: Cytotoxic (*in vitro*, PC3, $IC_{50} = 1.8\mu\text{mol/L}$, control Paclitaxel, $IC_{50} = 0.016\mu\text{mol/L}$; Hep3B, $IC_{50} = 2.4\mu\text{mol/L}$, Paclitaxel, $IC_{50} = 0.031\mu\text{mol/L}$). Source: MO ZHI JIAO GU CUI *Casearia membranacea* (leaf and twig: yield = 0.023%dw). Ref: 3010.



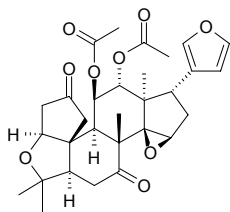
5298 7 α ,12 α -Diacetoxy-14 β ,15 β -epoxy-11 β -hydroxynoteecleanin

$C_{30}H_{38}O_9$ (542.63). White amorphous solid, mp 180–182°C. Source: *Turraea wakefieldii* (root cortex). Ref: 3459.



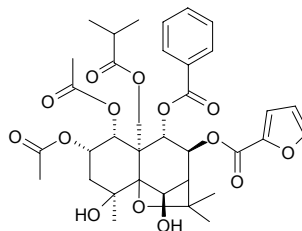
5299 11 β ,12 α -Diacetoxy-14 β ,15 β -epoxynoteecleanin

$C_{30}H_{36}O_9$ (540.62). White amorphous solid, mp 161–162°C. Pharm: Larvicidal (mosquito late third or early fourth-instar larvae of *Anopheles gambiae* s.s., $LD_{50} = 7.07\text{mg/L}$). Source: *Turraea wakefieldii* (root cortex). Ref: 3459.



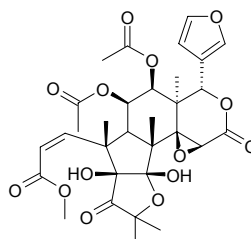
5300 1 α ,2 α -Diacetoxy-8 β -(β -furancarboxyloxy)-9 α -benzoyloxy-13-isobutanoyloxy-4 β ,6 β -dihydroxy- β -dihydroagarofuran

$C_{35}H_{42}O_{14}$ (686.72). Amorphous white powder, mp 248–249°C, $[\alpha]_D^{24} = +7.6^\circ$ ($c = 0.66$, $CHCl_3$). Pharm: Insecticidal (*Mythimna separata*, $KD_{50} = 73.3\mu\text{g/g}$). Source: DIAO GAN MA *Celastrus angulatus* (root cortex). Ref: 5228.



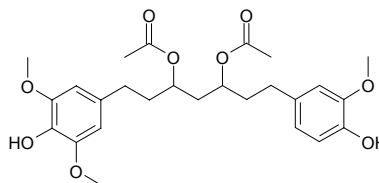
5301 11,12-Diacetoxyharrisonin

$C_{31}H_{36}O_{14}$ (362.62). Colorless crystals (acetone), mp.249–250°C. Source: A BI XI NI YA NIU JIN GUO *Harrisonia abyssinica*. Ref: 2351.



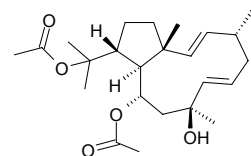
5302 3,5-Diacetoxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl) heptane

$C_{26}H_{34}O_9$ (490.56). Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. Ref: 2.



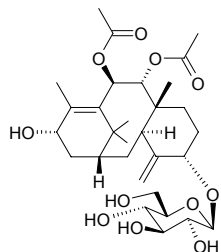
5303 10,18-Diacetoxy-8-hydroxy-2,6-dolabelladiene

$C_{24}H_{38}O_5$ (406.57). Colorless needles, mp 136–138°C, $[\alpha]_D^{25} = -115^\circ$ ($c = 0.0016$, $CHCl_3$). Pharm: Anti-HSV-1 (Vero cells infected by HSV-1, $50\mu\text{mol/L}$, (89±5)% of cytopathic effect inhibition of herpes virus); cytotoxic inactive ($200\mu\text{mol/L}$); HIV-1 RT inhibitor ($40\mu\text{mol/L}$, InRt = 20%, positive control AZT, $0.01\mu\text{mol/L}$, InRt = 85%). Source: BA XI ZONG ZAO *Dictyota paffii*. Ref: 5023.



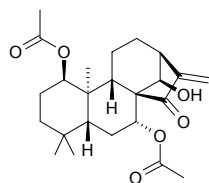
5304 9 α ,10 β -Diacetoxy-13 α -hydroxy-5 α -O-(β -D-glucopyranosyl)taxa-4(20),11-diene

C₃₀H₄₆O₁₁ (582.69). Amorphous solid, $[\alpha]_D^{22} = +33^\circ$ ($c = 0.3$, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle; yield = 0.000075%dw). Ref: 4734.



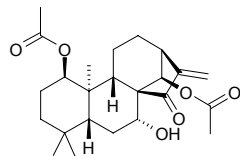
5305 ent-1 α ,7 β -Diacetoxy-14 α -hydroxykaur-16-en-15-one

C₂₄H₃₄O₆ (418.53). White amorphous powder, $[\alpha]_D^{15} = -22^\circ$ ($c = 0.10$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.



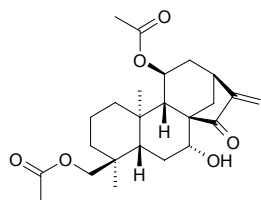
5306 ent-1 α ,14 α -Diacetoxy-7 β -hydroxykaur-16-en-15-one

C₂₄H₃₄O₆ (418.53). White amorphous powder, $[\alpha]_D^{15} = -16^\circ$ ($c = 0.10$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.



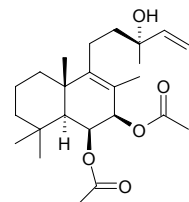
5307 ent-11 α ,18-Diacetoxy-7 β -hydroxykaur-16-en-15-one

C₂₄H₃₄O₆ (418.54). White amorphous powder, $[\alpha]_D^{25} = -135.7^\circ$ ($c = 2.24$, CHCl₃). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.



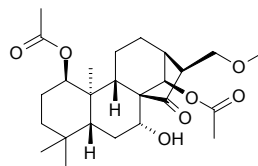
5308 6 β ,7 β -Diacetoxy-13-hydroxy-labda-8,14-diene

C₂₄H₃₈O₅ (406.57). Pharm: Affinity to dopamine-D₂-receptor^[2413]. Source: SUI HUA MU JING *Vitex agnuscastus*. Ref: 2413.



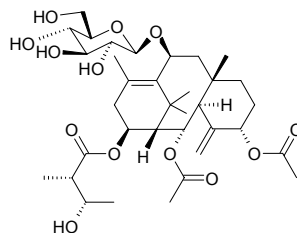
5309 ent-(16S)-1 α ,14 α -Diacetoxy-7 β -hydroxy-17-methoxykauran-15-one

C₂₅H₃₈O₇ (450.58). White amorphous powder, $[\alpha]_D^{25} = -225.0^\circ$ ($c = 0.16$, CHCl₃). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.



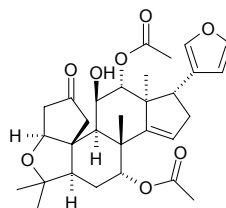
5310 2 α ,5 α -Diacetoxy-14 β -(2'S,3'R)-3'-hydroxy-2' α -methylbutanoate-10 β -O-(β -D-glucopyranosyl)taxa-4(20),11-diene

C₃₅H₅₄O₁₃ (682.81). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle; yield = 0.00013%dw). Ref: 4734.



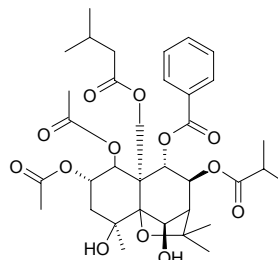
5311 7 α ,12 α -Diacetoxy-11 β -hydroxynotecleanin

C₃₀H₃₈O₈ (526.63). White amorphous solid, mp 186–187°C. Pharm: Larvicidal (mosquito late third or early fourth-instar larvae of *Anopheles gambiae* s.s., LD₅₀ = 7.05mg/L). Source: *Turraea wakefieldii* (root cortex). Ref: 3459.



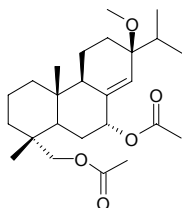
5312 1 α ,2 α -Diacetoxy-8 β -isobutanoyloxy-9 α -benzoyloxy-13-(α -methyl)butanoyloxy-4 β ,6 β -dihydroxy- β -dihydroagarofuran

C₃₅H₄₈O₁₃ (676.77). Amorphous white powder, mp 95–96°C, $[\alpha]_D^{24} = -12.8^\circ$ ($c = 0.60$, CHCl₃). Pharm: Insecticidal (*Mythimna separata*, KD₅₀ = 135.3 μ g/g). Source: DIAO GAN MA *Celastrus angulatus* (root cortex). Ref: 5228.

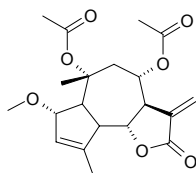


5313 7 α ,18-Diacetoxy-13 β -methoxyabiet-8(14)-ene

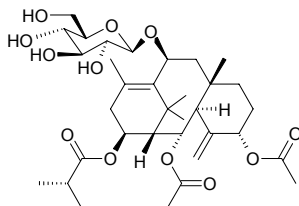
C₂₅H₄₀O₅ (420.59). Colorless oil, $[\alpha]_D^{25} = +43.7^\circ$ ($c = 0.1$, CHCl₃). Source: BEI FEI XUE SONG *Cedrus atlantica* (cone). Ref: 5248.

**5314 8,10-Diacetoxy-2-methoxy-3,11(13)-guaidiene-12,6-olide**

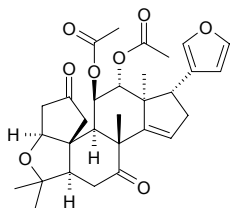
C₂₀H₂₆O₇ (378.43). $[\alpha]_D^{25} = -32.4^\circ$ ($c = 0.75$, CHCl₃). Pharm: Cytotoxic (*in vitro*, ACHN cell, IC₅₀ = (3.26±0.28)μg/mL, control Adriamycin, IC₅₀ = (0.09±0.03)μg/mL; LOX-IMVI, IC₅₀ = (3.78±0.31)μg/mL, Adriamycin, IC₅₀ = (0.05±0.02)μg/mL; SW620, IC₅₀ = (4.75±0.18)μg/mL, Adriamycin, IC₅₀ = (0.19±0.07)μg/mL; PC3, IC₅₀ = (3.82±0.26)μg/mL, Adriamycin, IC₅₀ = (0.76±0.12)μg/mL; A549, IC₅₀ = (3.67±0.29)μg/mL, Adriamycin, IC₅₀ = (0.28±0.09)μg/mL)^[5455]; anti-apoptosis (etoposide-induced, IC₅₀ = (13.7±0.9)μg/mL; control PDTIC, IC₅₀ = (8.0±0.5)μg/mL). Source: BEI YE JU *Chrysanthemum boreale*. Ref: 5455.

**5315 2 α ,5 α -Diacetoxy-14 β -2'- α -methylbutanoate-10 β -O-(β -D-glucopyranosyl)taxa-4(20),11-diene**

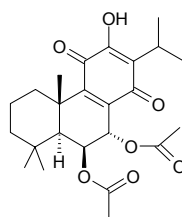
C₃₅H₅₄O₁₂ (666.81). Amorphous solid, $[\alpha]_D^{22} = +32^\circ$ ($c = 0.15$, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle: yield = 0.00014%dw). Ref: 4734.

**5316 11 β ,12 α -Diacetoxyneotecleanin**

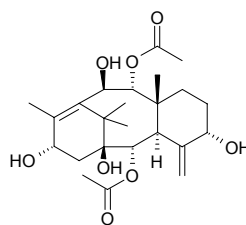
C₃₀H₃₆O₈ (524.62). White amorphous solid, mp 154–156°C, $[\alpha]_D^{20} = -34.0^\circ$ ($c = 1.59$, CHCl₃). Pharm: Larvicidal (mosquito late third or early fourth-instar larvae of *Anopheles gambiae* s.s., LD₅₀ = 7.83mg/L). Source: TURRAEA WAKEFIELDII (root cortex). Ref: 3459.

**5317 6 β ,7 α -Diacetoxyroyleanone**

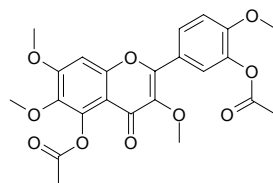
C₂₄H₃₂O₇ (432.52). Yellowish solid, $[\alpha]_D^{23} = -56.7^\circ$ ($c = 0.3$, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4443.

**5318 Diacetyxtetrahydroxytaxadiene**

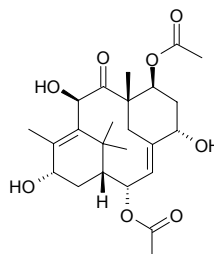
2 α ,9 α -Diacetoxy-1 β ,5 α ,10 β ,13 α -tetrahydroxytaxa-4(20),11-diene C₂₄H₃₆O₈ (452.55). mp 154°C, $[\alpha]_D = -22^\circ$ (CHCl₃) Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**5319 5,3'-Diacetoxy-3,6,7,4'-tetramethoxyflavone**

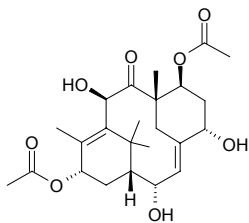
C₂₃H₂₂O₁₀ (458.43). mp 140–142°C. Pharm: Cytotoxic (*in vitro*, Col2, ED₅₀ = 15.9μg/mL; hTERT-RPE1, ED₅₀ = 0.4μg/mL; HUVEC, ED₅₀ = 0.1μg/mL; KB, ED₅₀ = 0.2μg/mL; HUVEC, ED₅₀ = 0.1μg/mL; Lu1, ED₅₀ = 0.7μg/mL). Source: HUANG JING YE *Vitex negundo*. Ref: 4699.

**5320 2 α ,7 β -Diacetoxy-5 α ,10 β ,13 α -trihydroxy-2(3→20)abeotaxane-9-one**

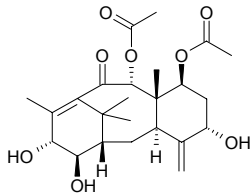
[260367-32-6] C₂₄H₃₄O₈ (450.53). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 2414.



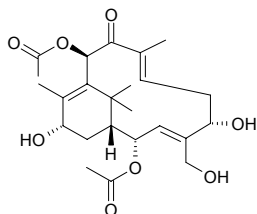
5321 7 β ,13 α -Diacetoxy-2 α ,5 α ,10 β -trihydroxy-2(3 \rightarrow 20)abeotaxane-9-one
2,10-Dideacetylaxin B' [219999-48-1] C₂₄H₃₄O₈ (450.53). Colorless crystals, mp 220–222°C, [α]_D²⁵ = –11.2° (c = 0.002, CHCl₃). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 2414.



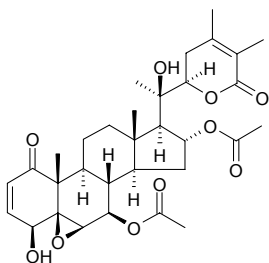
5322 7 β ,9 α -Diacetoxy-5 α ,13 α ,14 β -trihydroxy-10-oxotaxa-4(20),11-diene
C₂₄H₃₄O₈ (450.53). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.



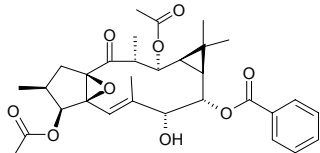
5323 (3E,7E)-2 α ,10 β -Diacetoxy-5 α ,13 α ,20-trihydroxy-3,8-secotaxa-3,7,11-trien-9-one
C₂₄H₃₄O₈ (450.53). [α]_D = –15.5° (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.



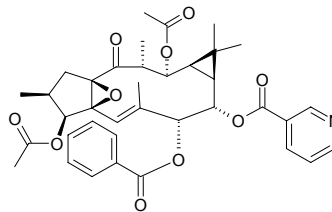
5324 7 β ,16 α -Diacetoxy withanolide D
7 β ,16 α -Diacetoxy-4 β ,20R-dihydroxy-5 β ,6 β -epoxy-1-oxowitha-2,24-dienolide C₃₃H₄₂O₁₀ (586.69). mp 163–166° (EtOAc) Source: BA XI YE YAN *Acnistus arborescens*. Ref: 2003.



5325 3,12-Diacetyl-8-benzoylingol
C₃₁H₃₈O₉ (554.64). White powder, mp 95–97°, [α]_D²⁵ = –27° (c = 0.5, CHCl₃). Source: YIN DU DUO ZHI DA JI *Euphorbia nivulia*. Ref: 1985.

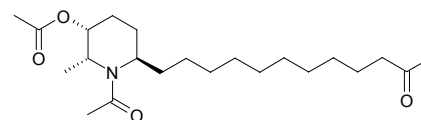


5326 3,12-Diacetyl-7-benzoyl-8-nicotinoylingol
C₃₇H₄₁NO₁₀ (659.74). White powder, mp 90–92°C, [α]_D²⁵ = –61° (c = 0.5, CHCl₃). Source: YIN DU DUO ZHI DA JI *Euphorbia nivulia*. Ref: 1985.

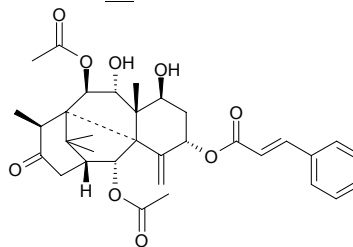


5327 N,O-Diacetylcassine

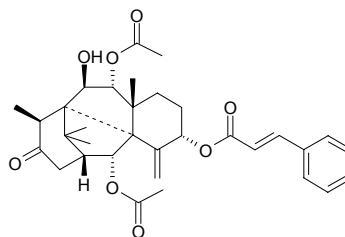
C₂₂H₃₉NO₄ (381.56). Pharm: Cytotoxic (P₃₈₈ IC₅₀ = 5.2 μg/mL, control 5-FU, IC₅₀ = 0.99 μg/mL; KB, IC₅₀ = 5.2 μg/mL, Doxorubicin, IC₅₀ = 0.57 μg/mL; BC-1, IC₅₀ = 7.1 μg/mL, Doxorubicin, IC₅₀ = 0.21 μg/mL); cytotoxic (brine shrimp lethality, IC₅₀ = 17.0 μg/mL, control Monocrotophos, IC₅₀ = 0.24 μg/mL). Source: ZHUANG GUAN FAN XIE *Senna spectabilis* (flower). Ref: 5480.



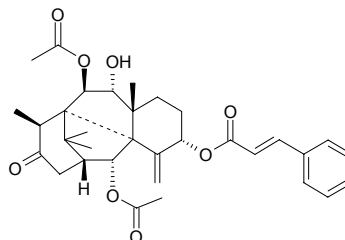
5328 2,10-Diacetyl-5-cinnamoyl-7 β -hydroxy phototaxicin II
C₃₃H₄₀O₉ (580.68). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.



5329 2,9-Diacetyl-5-cinnamoylphototaxicin II
C₃₃H₄₀O₈ (564.68). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.

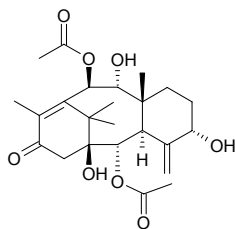


5330 2,10-Diacetyl-5-cinnamoylphototaxicin II
C₃₃H₄₀O₈ (564.68). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.

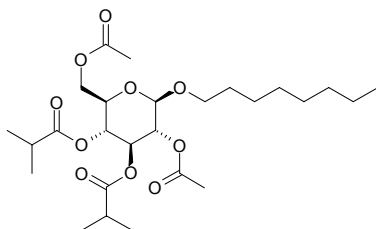


5331 Diacetyldecinnamoyltaxicin I

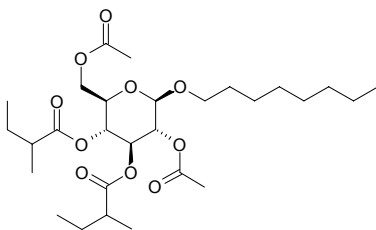
2,10-Di-*O*-acetyl-5-decinnamoyl-taxicin I C₂₄H₃₄O₈ (450.53). mp 165°C, [α]_D = +30° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**5332 2,6-Diacetyl-3,4-diisobutyryl-1-*O*-octylglucopyranoside**

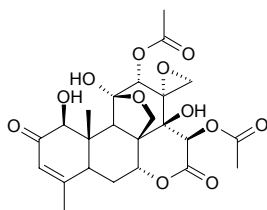
C₂₆H₄₄O₁₀ (516.63). Pharm: Antibacterial (gram-positive methicillin-resistant *Staphylococcus aureus* ATCC33591, MIC = 128µg/mL, control Gentamicin, MIC = 2µg/mL). Source: AI SHENG XIONG GUO *Arctostaphylos pumila* (stem). Ref: 5060.

**5333 2,6-Diacetyl-3,4-dimethylbutyryl-1-*O*-octylglucopyranoside**

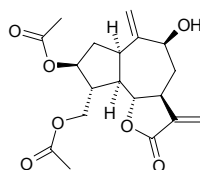
C₂₈H₄₈O₁₀ (544.69). Pharm: Antibacterial (gram-positive methicillin-resistant *Staphylococcus aureus* ATCC33591, MIC = 64µg/mL; control Gentamicin, MIC = 2µg/mL). Source: AI SHENG XIONG GUO *Arctostaphylos pumila* (stem). Ref: 5060.

**5334 12,15-Diacetyl-13α(21)-epoxyeurycomanone**

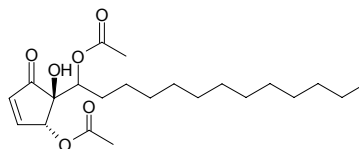
C₂₄H₂₈O₁₂ (508.48). Source: *Eurycoma* sp. Ref: 4556.

**5335 3,15-Di-*O*-acetyl-9β-hydroxyamphoricarpolide**

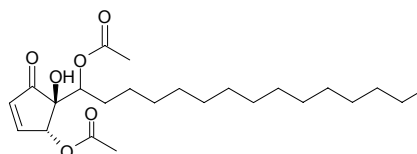
C₁₉H₂₄O₇ (364.40). Colorless gum, [α]_D²⁵ = +3.4° (c = 0.25, CHCl₃). Source: *Amphoricarpus neumayeri* ssp. *neumayeri* (aerial parts), *Amphoricarpus neumayeri* ssp. *murbeckii* (aerial parts). Ref: 3842.

**5336 4,6-Di-*O*-acetyl hygrophorone A¹²**

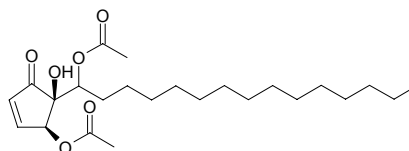
4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one C₂₂H₃₆O₆ (396.53). Colorless oil, [α]_D²³ = +53.0° (c = 0.940, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 23mm², 40µg, IZA = 40mm²). Source: *Hygrophorus persoonii*. Ref: 3800.

**5337 4,5-Di-*O*-acetyl hygrophorone A¹⁴**

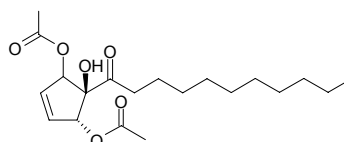
4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₄H₄₀O₆ (424.58). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20µg, IZA = 2mm², 40µg, IZA = 6mm²). Source: *Hygrophorus persoonii*. Ref: 3800.

**5338 4,6-Di-*O*-acetyl hygrophorone B¹⁴**

4,5-*cis*-4-Acetoxy-5-hydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₄H₄₀O₆ (424.58). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

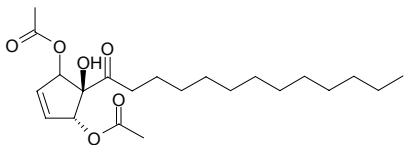
**5339 1,4-Di-*O*-acetyl hygrophorone E¹⁰**

1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-undecan-1-one C₂₀H₃₂O₆ (368.47). Colorless oil. Source: *Hygrophorus latitabundus*. Ref: 3800.

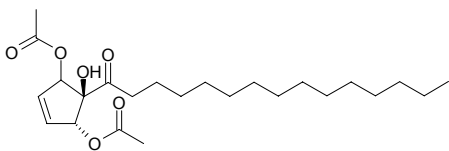


5340 1,4-Di-*O*-acetyl hygrophorone E¹²

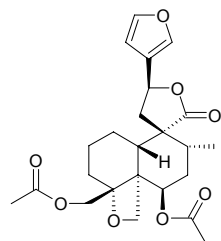
1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-tridecan-1-one C₂₂H₃₆O₆
(396.53). Colorless oil, [α]_D²³ = +80.3° (*c* = 0.395, MeOH). Source:
Hygrophorus latitabundus. Ref: 3800.

**5341 1,4-Di-*O*-acetyl hygrophorone E¹⁴**

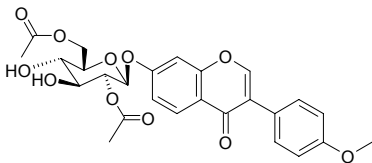
1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-pentadecan-1-one C₂₄H₄₀O₆
(424.58). Colorless oil. Source: *Hygrophorus latitabundus*. Ref: 3800.

**5342 Diacetyl montanin D**

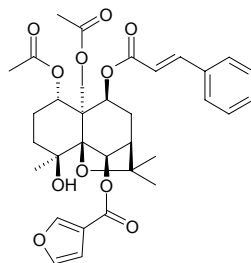
C₂₄H₃₀O₈ (446.50). Pharm: Insect antifeedant (*Spodoptera litura*, 10μg/cm², antifeedant activity = (67±2)%, control Azadirachtin A, 0.5μg/cm², antifeedant activity = (79±2)%; *Plutella xylostella*, 10μg/cm², antifeedant activity = (62±2)%, control Azadirachtin A, 0.5μg/cm², antifeedant activity = (71±2)%). Source: RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts). Ref: 3478.

**5343 2'',6''-*O*-Diacetyloninin**

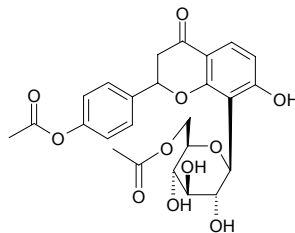
Formononetin-7-*O*-(2'',6''-*O*-diacetyl)glucopyranoside C₂₆H₂₆O₁₁ (514.49).
Yellow amorphous powder, [α]_D²⁵ = +9.3° (*c* = 0.55, MeOH). Pharm:
Cytotoxic (*in vitro*, Hs740T, ED₅₀ = 7.61μg/mL; Hs756T, ED₅₀ =
8.89μg/mL; Hs578T, ED₅₀ = 5.44μg/mL; Hs742T, ED₅₀ = 25.53μg/mL;
DU145, ED₅₀ = 4.18μg/mL; LNCaP-FGC, ED₅₀ = 22.12μg/mL). Source:
DA DOU *Glycine max* (Soybean phytochemical concentrate: yield =
0.0039%dw). Ref: 4630.

**5344 1*S*,13-Diacetyloxy-4*S*-hydroxy-6*R*-(3-furancarboxyloxy-9*S*-cinna-
moyloxy-β-dihydroagarofuran**

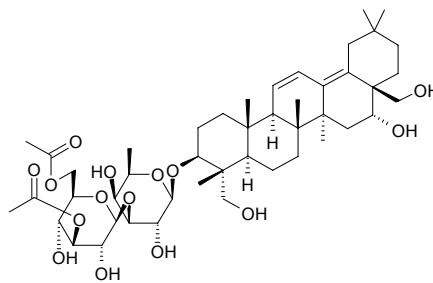
C₃₃H₃₈O₁₁ (610.66). Yellow oil, [α]_D = +87.5° (*c* = 4.20, CHCl₃). Pharm:
Cytotoxic inactive (hmn Bel7402, HL-60, A549 and mouse P₃₈₈, all IC₅₀ >
100μmol/L). Source: *Euonymus nanoides* (seed: yield = 0.0035%dw). Ref:
1129.

**5345 4',6''-Diacetyl puerarin**

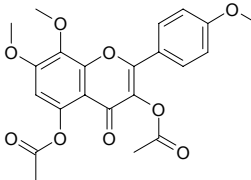
C₂₅H₂₆O₁₁ (502.48). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria
thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2.

**5346 3'',6''-*O*,*O*-diacetylsaikosaponin b₂**

C₄₆H₇₂O₁₅ (865.08). Source: WEN CHUAN CHAI HU *Bupleurum
wenchuanense*. Ref: 2247.

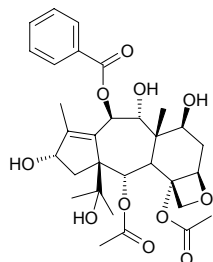
**5347 3,5-Diacetyltambulin**

C₂₂H₂₀O₉ (428.40). Pharm: Platelet aggregation inhibitor. Source: QUAN
YUAN YE HUA JIAO *Zanthoxylum integrifolium*. Ref: 2176.

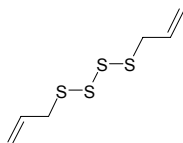


5348 7,9-Diacetyltaxayuntin

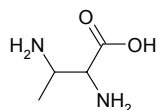
10 β -Benzyloxy-2 α ,4 α -diacetoxy-5 β ,20-epoxy-1 β ,7 β ,9 α ,13 α -tetrahydrox-11(15 \rightarrow 1)-abeo-taxene C₃₁H₄₀O₁₁ (588.66). mp 242~243°C; 266~268°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**5349 Diallyl tetrasulfide**

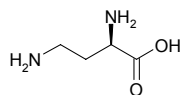
[2444-49-7] C₆H₁₀S₄ (210.40). Source: DA SUAN *Allium sativum*. Ref: 2.

**5350 2,3-Diaminobutyric acid**

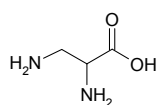
C₄H₁₀N₂O₂ (118.14). Source: DUO HUA HUANG JING *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], MO GU *Agaricus campestris*. Ref: 6, 660.

**5351 L- α , γ -Diaminobutyric acid**

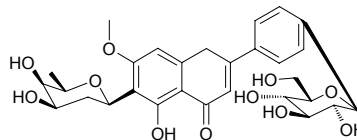
2,4-Diaminobutyric acid C₄H₁₀N₂O₂ (118.14). mp 205°C (dec). Pharm: Causes chronic ammonia toxicosis (liver damage, tingle and tic, blocks displace of carbamoyl of ornithine). Source: DUO HUA HUANG JING *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], LIN SHENG SHAN LI DOU *Lathyrus sylvestris*, MO GU *Agaricus campestris*, SU GEN XIANG WAN DOU *Lathyrus latifolius*, *Acacia* sp. Ref: 6, 658, 660.

**5352 α , β -Diaminopropionic acid**

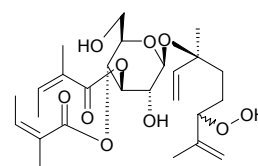
C₃H₈N₂O₂ (104.11). mp (-) 193°C, (\pm) 110~120°C. Source: WANG GUA ZI *Trichosanthes cucumeroides*. Ref: 6.

**5353 Diandraflavone**

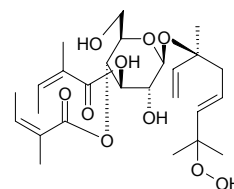
C₂₉H₃₄O₁₁ (558.59). Pharm: Antioxidant (selectively inhibits superoxide anion generation, hmn neutrophils, stimulated by fMLP/CB, IC₅₀ = 10 μ g/mL). Source: ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.00003%). Ref: 4758.

**5354 (3S)-3-O-(3',4'-Diangeloyl- β -D-glucopyranosyloxy)-6-hydroperoxy-3,7-dimethylocta-1,7-diene**

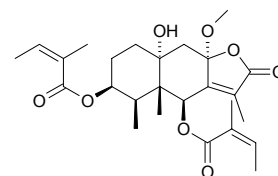
C₂₆H₄₀O₁₀ (512.60). Colorless oil. [α]_D²⁰ = -5.1° (c = 0.15, CHCl₃). Source: DONG FENG CAI *Doellingeria scaber* [Syn. *Aster scaber*] (aerial parts). Ref: 4102.

**5355 (3S)-3-O-(3',4'-Diangeloyl- β -D-glucopyranosyloxy)-7-hydroperoxy-3,7-dimethylocta-1,5-diene**

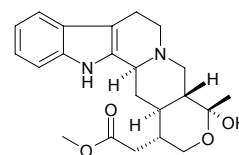
C₂₆H₄₀O₁₀ (512.60). Colorless oil. [α]_D²⁰ = -13.1° (c = 0.48, CHCl₃). Source: DONG FENG CAI *Doellingeria scaber* [Syn. *Aster scaber*] (aerial parts). Ref: 4102.

**5356 3 β ,6 β -Diangeloyloxy-10 α -hydroxy-8 α -methoxyeremophilinide**

C₂₆H₃₆O₈ (476.57). Colorless gum, [α]_D²⁰ = -109.8° (c = 0.56, CHCl₃). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

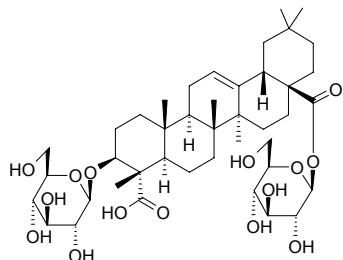
**5357 Diangoutengjian I**

C₂₂H₂₈N₂O₄ (384.48). Colorless block crystals, mp 190~191°C. Source: DIAN GOU TENG *Uncaria yunnanensis*. Ref: 869.

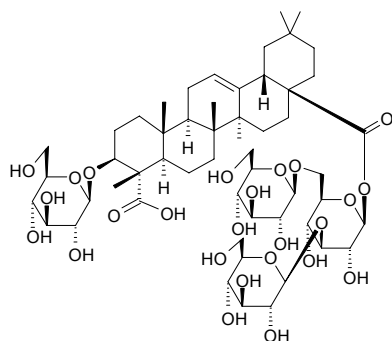


5358 Dianoside A

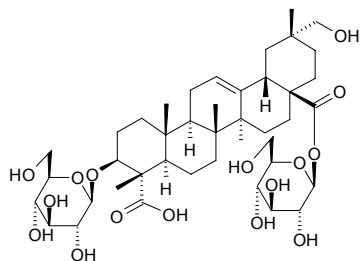
[91652-87-8] C₄₂H₆₆O₁₅ (810.99). Pharm: Analgesic. Source: CHANG E QU MAI *Dianthus superbus* var. *longicalycinus*, BIAN SE SHI ZHU *Dianthus versicolor*, QU MAI *Dianthus superbus*. Ref: 658, 1530, 1531, 1532, 1533, 4450, 5501.

**5359 Dianoside B**

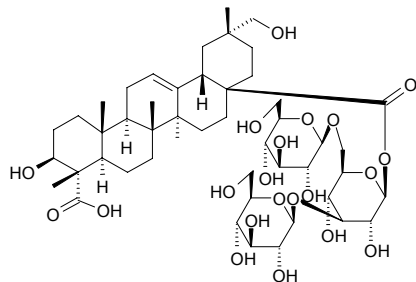
C₅₄H₈₆O₂₅ (1135.27). Pharm: Antihepatotoxin (aglucon is active component, liver damage caused by CCl₄); analgesic (mus, acetic acid-induced writhing model, InRt = 68%). Source: BIAN SE SHI ZHU *Dianthus versicolor*, QU MAI *Dianthus superbus*. Ref: 1530, 1531, 1532, 1533, 5501.

**5360 Dianoside C**

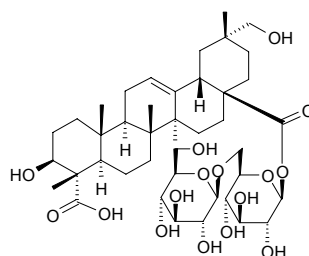
[91652-89-0] C₄₂H₆₆O₁₆ (826.98). Source: BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533.

**5361 Dianoside D**

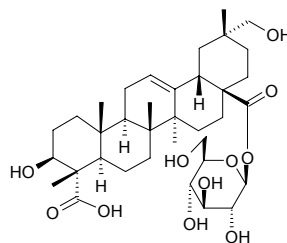
[91652-90-3] C₄₈H₇₆O₂₁ (989.13). Source: BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533.

**5362 Dianoside E**

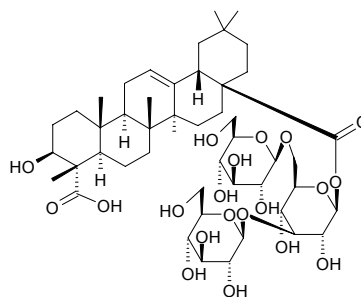
[91652-23-2] C₄₂H₆₆O₁₆ (826.98). Source: BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533.

**5363 Dianoside F**

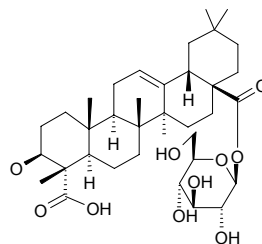
[91652-25-4] C₃₆H₅₆O₁₁ (664.84). Source: BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533.

**5364 Dianoside G**

[96333-09-4] C₄₈H₇₆O₂₀ (973.13). Source: CHANG E QU MAI *Dianthus superbus* var. *longicalycinus*, BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533, 4450.

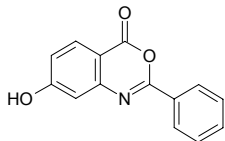
**5365 Dianoside H**

[96333-10-7] C₃₆H₅₆O₁₀ (648.84). Source: BIAN SE SHI ZHU *Dianthus versicolor*. Ref: 1530, 1531, 1532, 1533.

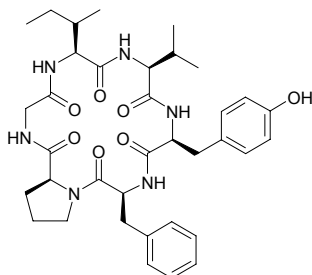


5366 Dianthalexine

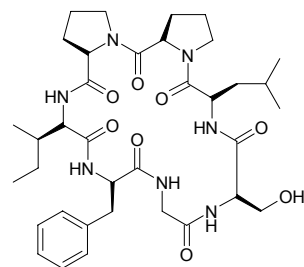
[85914-62-4] C₁₄H₉NO₃ (239.23). **Pharm:** Antifungal. **Source:** SHE XIANG SHI ZHU *Dianthus caryophyllus*. **Ref:** 658, 1521.

**5367 Dianthin C**

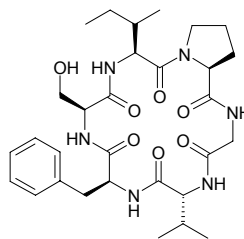
C₃₆H₄₈N₆O₇ (676.82). Pale yellow powder, $[\alpha]_D^{21} = -50^\circ$ ($c = 0.17$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 17.17 μg/mL; Hep3B, IC₅₀ > 20 μg/mL; MCF7, IC₅₀ > 20 μg/mL; A549, IC₅₀ > 20 μg/mL; MDA-MB-231, IC₅₀ > 20 μg/mL; control Doxorubicin, HepG₂, IC₅₀ = 0.19 μg/mL; Hep3B, IC₅₀ = 0.31 μg/mL; MCF7, IC₅₀ = 1.21 μg/mL; A549, IC₅₀ = 0.19 μg/mL; MDA-MB-231, IC₅₀ = 0.73 μg/mL). **Source:** QU MAI *Dianthus superbus* (aerial parts: yield = 0.0033%dw). **Ref:** 4765.

**5368 Dianthin D**

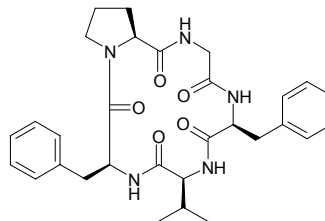
C₃₆H₅₃N₇O₈ (711.87). Pale yellow powder, $[\alpha]_D^{21} = -19.6^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ > 20 μg/mL; Hep3B, IC₅₀ > 20 μg/mL; MCF7, IC₅₀ > 20 μg/mL; A549, IC₅₀ > 20 μg/mL; MDA-MB-231, IC₅₀ > 20 μg/mL; control Doxorubicin, HepG₂, IC₅₀ = 0.19 μg/mL; Hep3B, IC₅₀ = 0.31 μg/mL; MCF7, IC₅₀ = 1.21 μg/mL; A549, IC₅₀ = 0.19 μg/mL; MDA-MB-231, IC₅₀ = 0.73 μg/mL). **Source:** QU MAI *Dianthus superbus* (aerial parts: yield = 0.0005%dw). **Ref:** 4765.

**5369 Dianthin E**

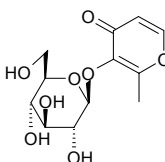
C₃₀H₄₄N₆O₇ (600.72). Pale yellow powder, $[\alpha]_D^{21} = -30.5^\circ$ ($c = 0.02$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 2.37 μg/mL; Hep3B, IC₅₀ > 20 μg/mL; MCF7, IC₅₀ > 20 μg/mL; A549, IC₅₀ > 20 μg/mL; MDA-MB-231, IC₅₀ > 20 μg/mL; control Doxorubicin, HepG₂, IC₅₀ = 0.19 μg/mL; Hep3B, IC₅₀ = 0.31 μg/mL; MCF7, IC₅₀ = 1.21 μg/mL; A549, IC₅₀ = 0.19 μg/mL; MDA-MB-231, IC₅₀ = 0.73 μg/mL). **Source:** QU MAI *Dianthus superbus* (aerial parts: yield = 0.0022%dw). **Ref:** 4765.

**5370 Dianthin F**

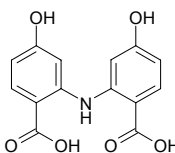
C₃₀H₃₇N₅O₅ (547.66). Pale yellow powder, $[\alpha]_D^{21} = -16.0^\circ$ ($c = 0.03$, MeOH). **Source:** QU MAI *Dianthus superbus* (aerial parts: yield = 0.0005%dw). **Ref:** 4765.

**5371 Dianthoside**

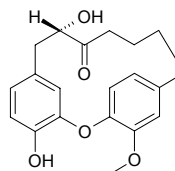
Maltol-3-*O*-β-*D*-glucopyranoside [20847-13-6] C₁₂H₁₆O₈ (288.26). **Source:** SHI ZHU *Dianthus chinensis*, JIN JI WEI BA CAO GEN *Macrothelypteris oligophlebia*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 1238, 1488, 1529.

**5372 Dianthramine**

[136945-65-8] C₁₄H₁₁NO₆ (289.25). **Pharm:** Antifungal. **Source:** SHE XIANG SHI ZHU *Dianthus caryophyllus*. **Ref:** 522, 658.

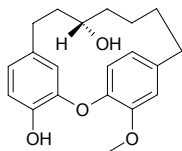
**5373 Diarylheptanoid CPB-51-262-1**

C₂₀H₂₂O₅ (342.40). Brown solid, $[\alpha]_D^{25} = -81.13^\circ$ ($c = 0.03$, MeOH). **Pharm:** Cytotoxic inactive (MTT assay, HT29 cell line, MCF7 cell line). **Source:** HU TAO QIU *Juglans mandshurica* (root). **Ref:** 4321.

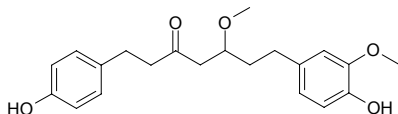


5374 Diarylheptanoid CPB-51-262-2

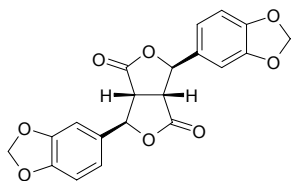
$C_{20}H_{24}O_4$ (328.41). Yellow oil, $[\alpha]_D^{25} = -39.07^\circ$ ($c = 0.21$, MeOH). **Pharm:** Cytotoxic inactive (MTT assay, HT29 cell line, MCF7 cell line). **Source:** HU TAO QIU *Juglans mandshurica* (root). **Ref:** 4321.

**5375 Diarylheptanoid CPB-51-262-4**

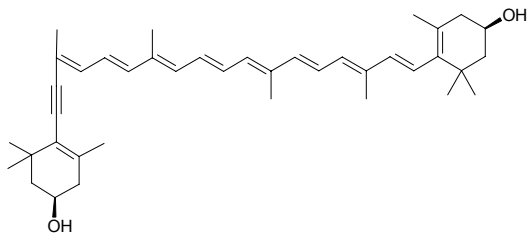
$C_{21}H_{26}O_5$ (358.44). Brown oil, $[\alpha]_D^{21} = -7.1^\circ$ ($c = 0.42$, MeOH). **Pharm:** Cytotoxic (MTT assay, HT29 cell line, $IC_{50} = 41.3 \mu\text{g/mL}$; MCF7 cell line, $IC_{50} = 50 \mu\text{g/mL}$)^[4321]. **Source:** HU TAO QIU *Juglans mandshurica* (root). **Ref:** 4321.

**5376 (-)-Diasamin-di- γ -lactone**

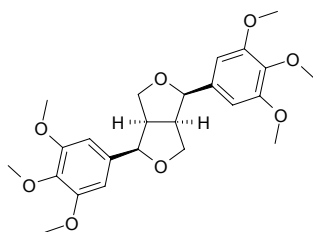
$C_{20}H_{14}O_8$ (382.33). Colorless needles (Me₂CO), mp 188~189°C, $[\alpha]_D^{26} = -47.4^\circ$ ($c = 0.1$, CHCl₃). **Source:** PI ZHEN XING YAO HUA *Wikstroemia lanceolata* (stem and root). **Ref:** 4947.

**5377 Diatoxanthin**

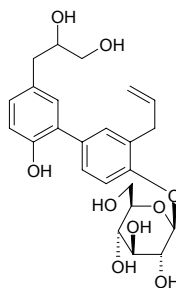
$C_{40}H_{54}O_2$ (566.88). **Pharm:** Anti-carcinogenic (inhibits 50nmol/L 12-*O*-tetradecanoyl phorbol 13-acetate (TPA)-stimulated ³²P-incorporation into the phospholipids of HeLa cells, 25 $\mu\text{g/mL}$, InRt = 48.2%)^[4256]. **Source:** ER JIAO DUO JIA ZAO *Peridinium bipes*. **Ref:** 4256.

**5378 Diyangambin**

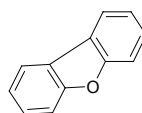
Lirioresinol dimethyl ether [21453-68-9] $C_{24}H_{30}O_8$ (446.50). **Pharm:** Cytotoxic (Meth-A sarcoma cell line, $ED_{50} > 10 \mu\text{g/mL}$, LLC cell line, $ED_{50} > 10 \mu\text{g/mL}$)^[3510]. **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**5379 1,1'-Dibenzene-6',8',9'-trihydroxy-3-allyl-4-*O*- β -D-glucopyranoside**

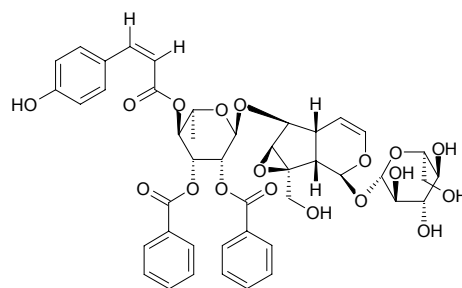
$C_{24}H_{30}O_9$ (462.50). Colorless glue. **Source:** DA YE HOU PO *Magnolia rostrata*. **Ref:** 2030.

**5380 Dibenzofuran**

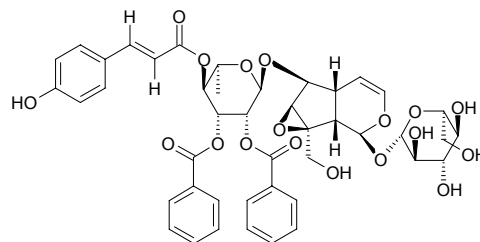
$C_{12}H_8O$ (168.20). **Source:** CHUAN XU DUAN *Dipsacus asperoides*. **Ref:** 660.

**5381 6-*O*- α -L-(2''-*O*-,3''-*O*-Dibenzoyl,4''-*O*-*cis*-*p*-coumaroyl)rhamno-pyranosylcatalpol**

$C_{44}H_{46}O_{18}$ (862.85). **Source:** FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). **Ref:** 3954.

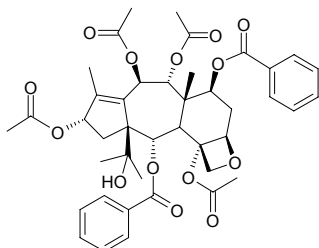
**5382 6-*O*- α -L-(2''-*O*-,3''-*O*-Dibenzoyl,4''-*O*-*trans*-*p*-coumaroyl)rhamno-pyranosylcatalpol**

$C_{44}H_{46}O_{18}$ (862.85). **Source:** FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). **Ref:** 3954.



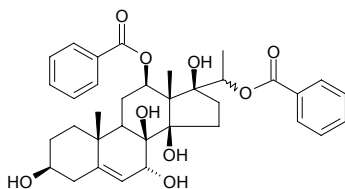
5383 2 α ,7 β -Dibenzoyl-5 β ,20-epoxy-1 β -hydroxy-4 α ,9 α ,10 β ,13 α -tetra-acetoxytax-11-ene

C₄₂H₄₈O₁₄ (776.84). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.



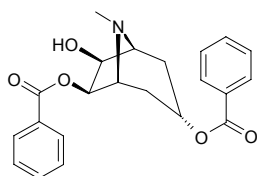
5384 Dibenzoylgagaimol

[38753-71-8] C₃₅H₄₂O₉ (606.72). mp 192~197°C. Source: LUO MO *Metaplexis japonica*. Ref: 6.



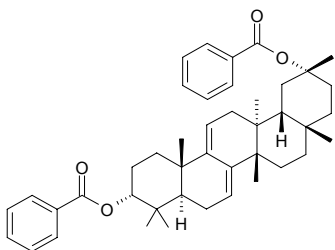
5385 3 α ,7 β -Dibenzoyloxy-6 β -hydroxy-tropane

C₂₂H₂₃NO₅ (381.43). mp 220°C, [α]_D²⁵ = +10° (*c* = 0.1, EtOH). Source: *Erythroxylon alaternifolium* (leaf). Ref: 3999.



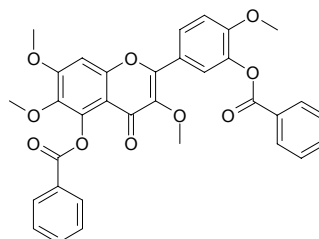
5386 3,29-*O*-Dibenzoyloxykaroundiol

C₄₃H₅₄O₄ (634.91). Colorless needles, mp 149~152°C (*n*-hexane), [α]_D = +9.1° (*c* = 0.17, CHCl₃). Source: FENG GUA *Gymnopetalum integrifolium* (fruit). Ref: 4189.



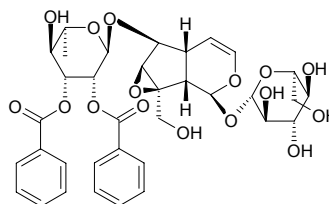
5387 5,3'-Dibenzoyloxy-3,6,7,4'-tetramethoxyflavone

C₃₃H₂₆O₁₀ (582.57). mp 220~222°C. Pharm: Cytotoxic (*in vitro*, Col2, ED₅₀ > 20 μ g/mL; hTERT-RPE1, ED₅₀ = 4.3 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; KB, ED₅₀ > 20 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; Lu1, ED₅₀ = 6.5 μ g/mL). Source: HUANG JING YE *Vitex negundo*. Ref: 4699.



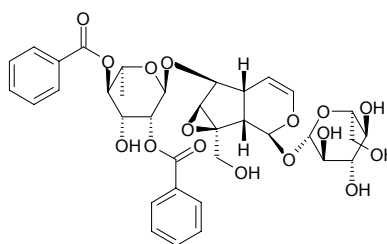
5388 6-*O*- α -L-(2''-*O*-,3''-*O*-Dibenzoyl)rhamnopyranosylcatalpol

C₃₅H₄₀O₁₆ (716.70). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.



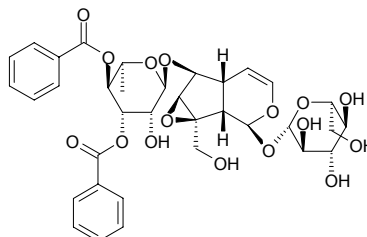
5389 6-*O*- α -L-(2''-*O*-,4''-*O*-Dibenzoyl)rhamnopyranosylcatalpol

C₃₅H₄₀O₁₆ (716.70). Pale yellow powder. Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.



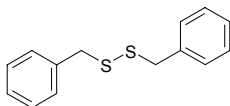
5390 6-*O*- α -L-(3''-*O*-,4''-*O*-Dibenzoyl)rhamnopyranosylcatalpol

C₃₅H₄₀O₁₆ (716.70). Pale yellow powder. Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.

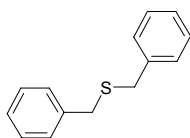


5391 Dibenzyl disulphide

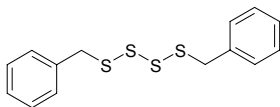
$C_{14}H_{14}S_2$ (246.40). Yellow amorphous solid. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 0.1 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC = 1.0 μ g, Nystatin, MIC = 1.0 μ g); antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC_{12} = 332 μ g/mL; RS 321, IC_{12} = 66 μ g/mL; RS 52YK (rad 52Y), IC_{12} = 16 μ g/mL, control Camptothecin, RS 52YK(rad 52Y), IC_{12} = 0.6 μ g/mL). **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**5392 Dibenzyl sulphide**

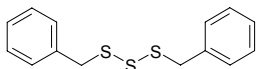
$C_{14}H_{14}S$ (214.33). Yellow oil. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 1.0 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC = 1.0 μ g, Nystatin, MIC = 1.0 μ g); antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC_{12} = 402 μ g/mL; RS 321, IC_{12} = 381 μ g/mL; RS 52YK (rad 52Y), IC_{12} = 412 μ g/mL, control Camptothecin, RS 52YK(rad 52Y), IC_{12} = 0.6 μ g/mL). **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**5393 Dibenzyl tetrasulphide**

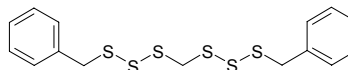
$C_{14}H_{14}S_4$ (310.52). Orange amorphous solid. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 10.0 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC = 10.0 μ g, Nystatin, MIC = 1.0 μ g); antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC_{12} = 328 μ g/mL; RS 321, IC_{12} = 53 μ g/mL; RS 52YK (rad 52Y), IC_{12} = 104 μ g/mL, control Camptothecin, RS 52YK(rad 52Y), IC_{12} = 0.6 μ g/mL). **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**5394 Dibenzyl trisulphide**

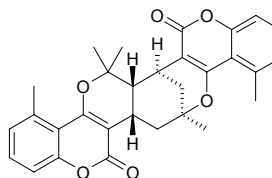
$C_{14}H_{14}S_3$ (278.46). Yellow amorphous solid. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 1.0 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC = 1.0 μ g, Nystatin, MIC = 1.0 μ g); antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC_{12} = 73 μ g/mL; RS 321, IC_{12} = 64 μ g/mL; RS 52YK (rad 52Y), IC_{12} = 62 μ g/mL, control Camptothecin, RS 52YK(rad 52Y), IC_{12} = 0.6 μ g/mL). **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**5395 Di(benzyltrithio)methane**

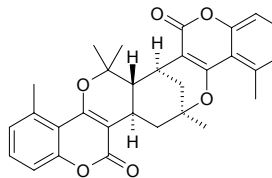
$C_{15}H_{16}S_6$ (388.68). Orange amorphous solid. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 5.0 μ g, control Nystatin, MIC = 1.0 μ g; *Cladosporium cladosporioides*, MIC = 5.0 μ g, Nystatin, MIC = 1.0 μ g); antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC_{12} = 76 μ g/mL; RS 321, IC_{12} = 58 μ g/mL; RS 52YK (rad 52Y), IC_{12} = 67 μ g/mL, control Camptothecin, RS 52YK(rad 52Y), IC_{12} = 0.6 μ g/mL). **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf). **Ref:** 5159.

**5396 Dibothrioclinin I**

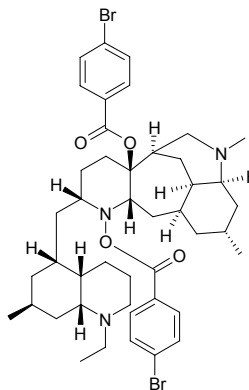
$C_{30}H_{28}O_6$ (484.55). Colorless block crystals, mp > 300°C, $[\alpha]_D^{19}$ = +24° (c = 0.05, $CHCl_3$). **Source:** MAO DA DING CAO *Gerbera piloselloides*. **Ref:** 2564.

**5397 Dibothrioclinin II**

$C_{30}H_{28}O_6$ (484.55). Colorless plate crystals, mp > 300°C, $[\alpha]_D^{19}$ = 0° (c = 0.045, $CHCl_3$). **Source:** MAO DA DING CAO *Gerbera piloselloides*. **Ref:** 2564.

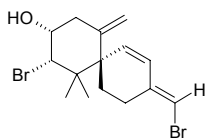
**5398 Di-*p*-bromobenzoate of tetrahydrodeoxyoxolucidine B**

$C_{44}H_{50}Br_2N_3O_4$ (853.79). $[\alpha]_D^{21.5}$ = -30.5° (c = 0.89, $CHCl_3$). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

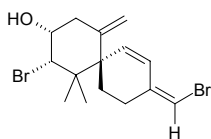


5399 (E)-10,15-Dibromo-9-hydroxy-chamigra-1,3(15),7(14)-triene

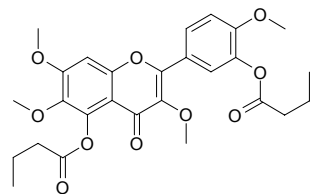
$C_{15}H_{20}Br_2O$ (376.13). Source: LUE DA AO DING ZAO *Laurencia majuscula*. Ref: 5191.

**5400 (Z)-10,15-Dibromo-9-hydroxy-chamigra-1,3(15),7(14)-triene**

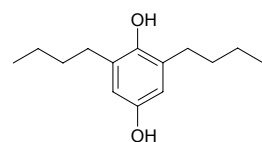
$C_{15}H_{20}Br_2O$ (376.13). Source: LUE DA AO DING ZAO *Laurencia majuscula*. Ref: 5191.

**5401 5,3'-Dibutanoyloxy-3,6,7,4'-tetramethoxyflavone**

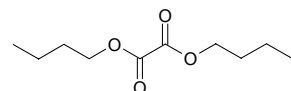
$C_{27}H_{30}O_{10}$ (514.53). mp 108–109°C. Pharm: Cytotoxic (*in vitro*, Col2, ED_{50} = 11.7 μ g/mL; hTERT-RPE1, ED_{50} = 0.6 μ g/mL; HUVEC, ED_{50} > 20 μ g/mL; KB, ED_{50} = 0.5 μ g/mL; HUVEC, ED_{50} = 0.8 μ g/mL; Lu1, ED_{50} = 1.7 μ g/mL)^[4699]. Source: HUANG JING YE *Vitex negundo*. Ref: 4699.

**5402 2,6-Dibutyl-p-cresol**

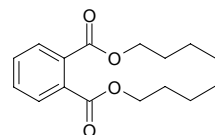
$C_{14}H_{22}O_2$ (222.33). Source: MIAN MA *Dryopteris filix-mas*. Ref: 1534.

**5403 Dibutyl oxalate**

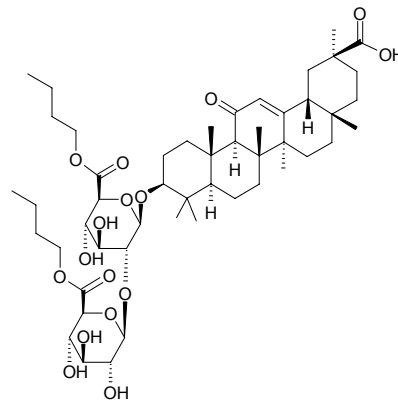
[2050-60-4] $C_{10}H_{18}O_4$ (202.25). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**5404 Dibutyl phthalate**

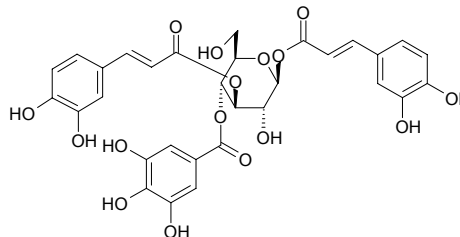
[84-74-2] $C_{16}H_{22}O_4$ (278.35). Source: NIU XI *Achyranthes bidentata*, HUA DONG LAN CI TOU *Echinops grijsii*. Ref: 582, 660.

**5405 Dibutyl uralsaponin A ester**

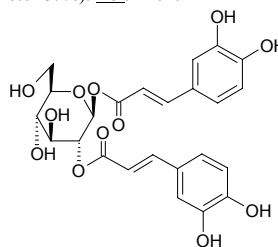
Inflasaponin IV; Glycyrrhetic acid-3-O- β -D-6'-n-butyl-glucuronopyranosyl-(1 \rightarrow 2)- β -D-6'-n-butyl-glucuronopyranoside $C_{50}H_{78}O_{16}$ (935.17). Colorless powder, mp 234–236°C. Source: GAN CAO *Glycyrrhiza uralensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 301, 880.

**5406 1,3-Di-O-(E)-caffeoyl-4-O-galloyl- β -D-glucopyranose**

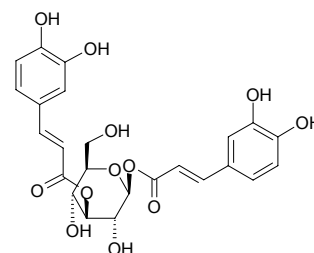
$C_{31}H_{28}O_{16}$ (656.56). Yellow amorphous powder, $[\alpha]_D^{15}$ = -100.4° (c = 0.7, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.1069%, underground part: yield = 0.0859%). Ref: 4101.

**5407 1,2-Di-O-(E)-caffeoyl- β -D-glucopyranose**

$C_{24}H_{24}O_{12}$ (504.45). Yellow amorphous powder, $[\alpha]_D^{15}$ = -11.7° (c = 0.8, MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0287%). Ref: 4101.

**5408 1,3-Di-O-(E)-caffeoyl- β -D-glucopyranose**

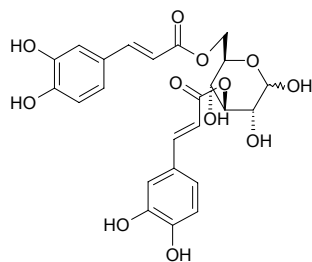
$C_{24}H_{24}O_{12}$ (504.45). Yellow amorphous powder, $[\alpha]_D^{15}$ = -33.4° (c = 0.6, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0014%). Ref: 4101.



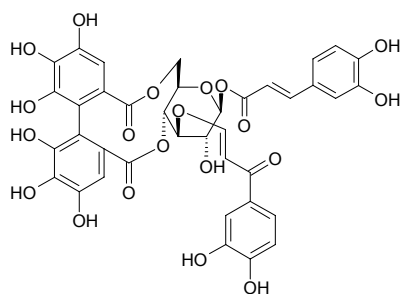
5409 3,6-Di-O-caffeoyl-(α/β)-glucose

$C_{24}H_{24}O_{12}$ (504.45). Source: SHEN SHENG XUAN GOU ZI *Rubus sanctus*.

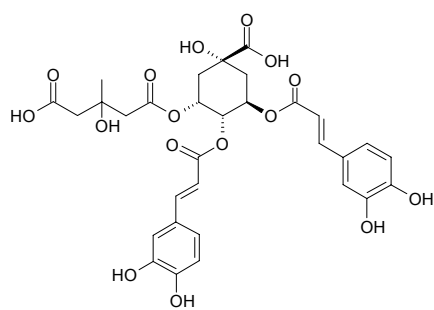
Ref: 3421.

**5410 1,3-Di-O-(E)-caffeoyl-4,6-(S)-HHDP- β -D-glucopyranose**

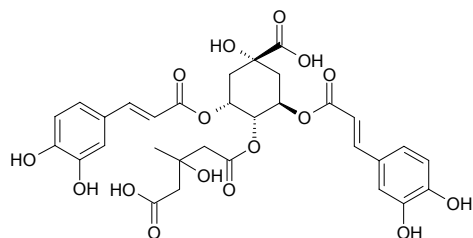
$C_{38}H_{30}O_{20}$ (806.65). Yellow amorphous powder, $[\alpha]_D^{15} = -4.2^\circ$ ($c = 0.6$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0092%). Ref: 4101.

**5411 3,4-Di-O-caffeoyl-5-O-(3-hydroxy-3-methyl) glutaroyl quinic acid**

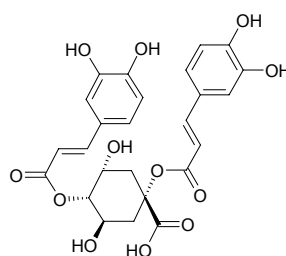
$C_{31}H_{32}O_{16}$ (660.59). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 626.

**5412 3,5-Di-O-caffeoyl-4-O-(3-hydroxy-3-methyl)glutaroylquinic acid**

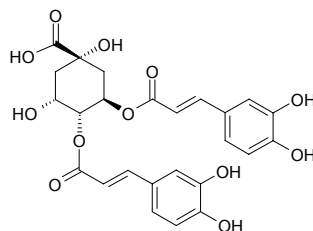
$C_{31}H_{32}O_{16}$ (660.59). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 626.

**5413 1,4-Di-O-caffeoylquinic acid**

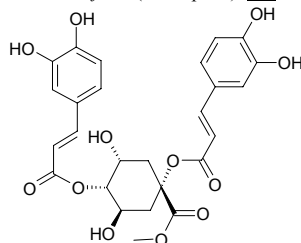
$C_{25}H_{24}O_{12}$ (516.46). mp 229~230°C. Source: CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*]. Ref: 6.

**5414 3,4-Di-O-caffeoylquinic acid**

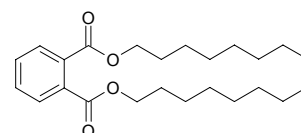
Isochlorogenic acid B [14534-61-3] $C_{25}H_{24}O_{12}$ (516.46). Pharm: Platelet aggregation inhibitor (rat, 500 μ g/mL, induced by ADP, InRt = 75%, induced by collagen, InRt = 42%); promotes release of prostacyclin PGI₂ (rat, 10 μ mol/L, 190.6%); increases coronary flow; Increases spread and mobility of macrophage (mus); anti-HIV (HIV-1 integrase inhibitor, inhibits replication of HIV); antineoplastic (mus, melanotic carcinoma B16, inhibits formation of melanin); antioxidant (cytoblast and microsome in hepatic cells, inhibits lipid peroxidization). Source: CU ZHUANG KA FEI *Coffea robusta*, SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, XIAO GUO KA FEI *Coffea arabica*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], *Artemisia* sp. Ref: 2, 626, 658, 1034, 1573, 1574, 1575, 1576, 2545.

**5415 3,4-Di-O-caffeoylquinic acid methyl ester**

$C_{26}H_{26}O_{12}$ (530.49). Pharm: Antiallergic (hyaluronidase inhibitor (activated hyaluronidase by compound 48/80, 0.2mmol/L, InRt = 31%, 76% inhibition of control DSCG)^[3924]). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts), XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 3924, 4184.

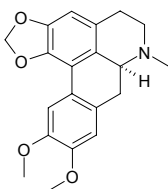
**5416 Dicapryl phthalate**

[117-84-0] $C_{24}H_{38}O_4$ (390.57). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

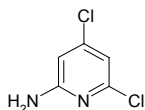


5417 (-)-Dicentrine

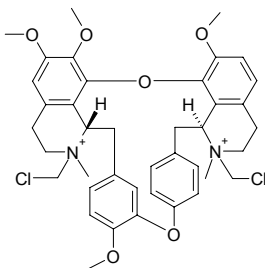
[517-66-8] C₂₀H₂₁NO₄ (339.39). **Pharm:** Analgesic; sedative; antitrypanosomal and cytotoxic (*Trypanosoma brucei brucei*, IC₅₀ = 14.6 μmol/L, Suramin, IC₅₀ = 0.06 μmol/L; hmn cervixcarcinoma cell HeLa, IC₅₀ = 35 μmol/L)^[4969]. **Source:** HE BAO DI BU RONG *Stephania dicentrinifera*, WU YE TENG *Cassytha filiformis*, XI XIAO HE BAO MU DAN *Dicentra pusilla*. **Ref:** 658, 4969.

**5418 2,4-Dichloro-6-aminopyridine**

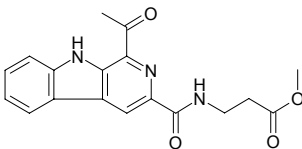
C₅H₄Cl₂N₂ (163.01). mp 271°C. **Source:** KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 6.

**5419 2',2'-N,N-Dichloromethyltetrandrine**

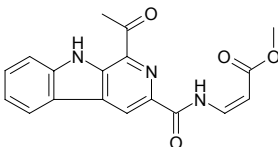
C₄₀H₄₆Cl₂N₂O₆²⁺ (721.73). **Source:** FANG JI *Stephania tetrandra*. **Ref:** 2.

**5420 Dichotomide I**

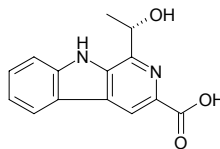
C₁₈H₁₇N₃O₄ (339.35). Yellow powder. **Pharm:** β-Hexosaminidase release inhibitor inactive (RBL-2H3 cells); TNF-α release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated); IL-4 release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root). **Ref:** 4761.

**5421 Dichotomide II**

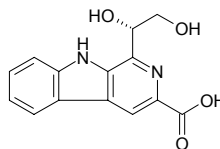
C₁₈H₁₅N₃O₄ (337.34). Yellow powder, [α]_D¹⁹ = +7.2° (c = 0.30, CHCl₃). **Pharm:** β-Hexosaminidase release inhibitor inactive (RBL-2H3 cells); TNF-α release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated); IL-4 release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root; yield = 0.0001%dw). **Ref:** 4761.

**5422 Dichotomine A**

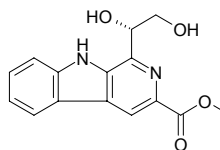
C₁₄H₁₂N₂O₃ (256.26). Yellow powder, [α]_D²⁷ = -9.7° (c = 0.85, MeOH). **Pharm:** β-Hexosaminidase release inhibitor inactive (RBL-2H3 cells); TNF-α release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated); IL-4 release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root; yield = 0.0014%dw). **Ref:** 4761.

**5423 Dichotomine B**

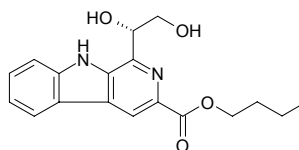
C₁₄H₁₂N₂O₄ (272.26). Yellow powder, [α]_D²⁷ = -19.0° (c = 1.00, MeOH). **Pharm:** β-Hexosaminidase release inhibitor inactive (RBL-2H3 cells); TNF-α release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated); IL-4 release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root; yield = 0.0009%dw). **Ref:** 4761.

**5424 Dichotomine C**

C₁₅H₁₄N₂O₄ (286.29). Yellow powder, [α]_D²⁷ = -16.6° (c = 0.50, MeOH). **Pharm:** β-Hexosaminidase release inhibitor (RBL-2H3 cells, IC₅₀ = 62 μmol/L); TNF-α release inhibitor (RBL-2H3 cells, antigen-IgE-mediated, IC₅₀ = 19 μmol/L); IL-4 release inhibitor (RBL-2H3 cells, antigen-IgE-mediated, IC₅₀ = 15 μmol/L). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root; yield = 0.0016%dw). **Ref:** 4761.

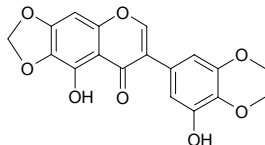
**5425 Dichotomine D**

C₁₈H₂₀N₂O₄ (328.37). Yellow powder, [α]_D²⁷ = -1.8° (c = 0.75, CHCl₃). **Pharm:** β-Hexosaminidase release inhibitor inactive (RBL-2H3 cells); TNF-α release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated); IL-4 release inhibitor inactive (RBL-2H3 cells, antigen-IgE-mediated). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root; yield = 0.0004%dw). **Ref:** 4761.

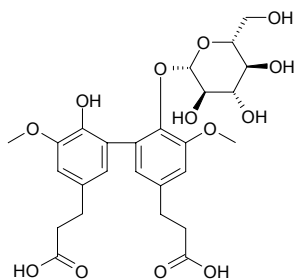


5426 Dichotomitin

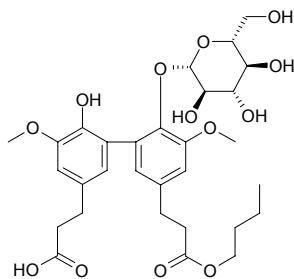
3',4'-Dimethoxy-5',5'-dihydroxy-6,7-methylenedioxyisoflavone C₁₈H₁₄O₈ (358.31). Yellowish rhomboid crystals, mp 249~251°C. Source: BAI HUA SHE GAN *Iris dichotoma*, JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 69, 4235.

**5427 Dichotomside A**

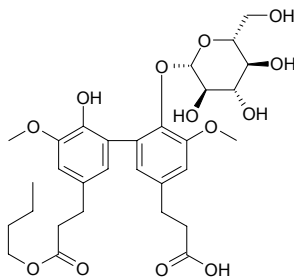
C₂₆H₃₂O₁₃ (552.54). White powder, $[\alpha]_D^{27} = -2.3^\circ$ ($c = 0.30$, MeOH). Pharm: β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, 100 μ mol/L, InRt = (1.0 \pm 0.7)%), control Ketotifen fumarate, InRt = (19.1 \pm 1.3)%). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0013%). Ref: 2571.

**5428 Dichotomside B**

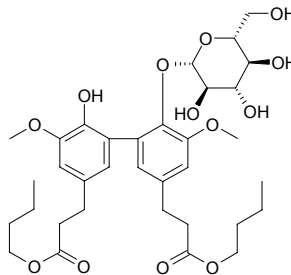
C₃₀H₄₀O₁₃ (608.65). White powder, $[\alpha]_D^{27} = +8.4^\circ$ ($c = 0.5$, MeOH). Pharm: β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, 100 μ mol/L, InRt = (8.2 \pm 2.3)%), control Ketotifen fumarate, InRt = (19.1 \pm 1.3)%). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0004%). Ref: 2571.

**5429 Dichotomside C**

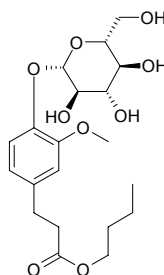
C₃₀H₄₀O₁₃ (608.65). White powder, $[\alpha]_D^{27} = +5.5^\circ$ ($c = 0.20$, MeOH). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0009%). Ref: 2571.

**5430 Dichotomside D**

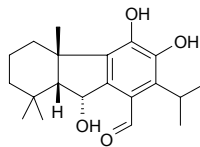
C₃₄H₄₈O₁₃ (664.75). White powder, $[\alpha]_D^{27} = +7.4^\circ$ ($c = 0.30$, MeOH). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, IC₅₀ = 64 μ mol/L, control Ketotifen fumarate IC₅₀ = 216 μ mol/L); tumor necrosis factor- α inhibitor (TNF- α) (RBL-2H3 cells, IC₅₀ = 16 μ mol/L); interleukin-4 inhibitor (RBL-2H3 cells, IC₅₀ = 34 μ mol/L); antiallergic (effective against the late-phase reactions in type I allergy than in the immediate phase). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0002%). Ref: 2571.

**5431 Dichotomside E**

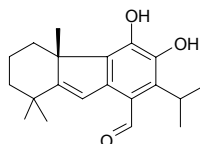
C₂₀H₃₀O₉ (414.46). White powder, $[\alpha]_D^{27} = -29.5^\circ$ ($c = 1.63$, MeOH). Pharm: β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, 100 μ mol/L, InRt = (5.7 \pm 3.1)%), control Ketotifen fumarate, InRt = (19.1 \pm 1.3)%). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0009%). Ref: 2571.

**5432 Dichroanal A**

rel-(4aS,9R,9aS)-8-formyl-1,2,3,4,4a,9a-hexahydro-5,6,9-trihydroxy-7-isopropyl-1,1,4a-trimethylfluorene C₂₀H₂₈O₄ (332.44). Source: ER SE HUA SHU WEI CAO *Salvia dichroantha*. Ref: 1909.

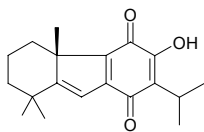
**5433 Dichroanal B**

4aS*-8-formyl-2,3,4,4a-tetrahydro-5,6-dihydroxy-7-isopropyl-1,1,4a-trimethyl-1H-fluorene C₂₀H₂₆O₃ (314.43). Source: ER SE HUA SHU WEI CAO *Salvia dichroantha*. Ref: 1909.

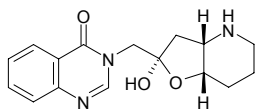


5434 Dichroanone

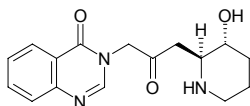
4a*S**-2,3,4,4a-tetrahydro-6-hydroxy-7-isopropyl-1,1,4a-trimethyl-5,8(1*H*)-fluorene-dione C₁₉H₂₄O₃ (300.40). Source: ER SE HUA SHU WEI CAO *Salvia dichroantha*. Ref: 1909.

**5435 α-Dichroine**

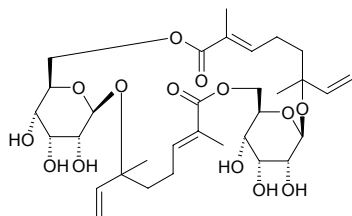
Isofebrifugine C₁₆H₁₉N₃O₃ (301.35). mp 129~130°C. Pharm: Antimalarial; inhibits heart (rbt, iv, *in vitro*); antihypertensive (anesthetic cat, iv); uterine stimulant (anesthetic dog *in vivo*, pregnant rbt *in vitro*, rat *in vitro*). Source: CHANG SHAN *Dichroa febrifuga*, SAN XING XIU QIU *Hydrangea umbellata*. Ref: 4, 6, 658.

**5436 β-Dichroine**

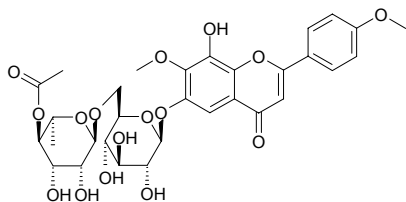
Febrivugine [24159-07-7] C₁₆H₁₉N₃O₃ (301.35). mp 139~140°C. Pharm: Antimalarial (amoeba); antipyretic; uterine stimulant (anesthetic dog *in vivo*, pregnant rbt or rat, *in vitro*); emetic; LD₅₀ (mus, orl) = 2.5~3.0mg/kg. Source: CHANG SHAN *Dichroa febrifuga*. Ref: 658.

**5437 Dicliripariside A**

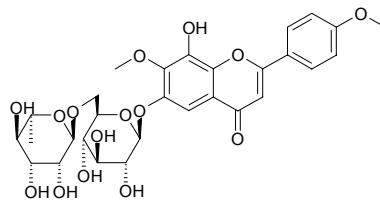
C₃₂H₄₈O₁₄ (656.73). Yellowish powder, mp 104~106°, [α]_D¹⁰ = +0.127° (c = 0.11, MeOH). Source: HE AN GOU GAN CAI *Dicliptera riparia*. Ref: 1945.

**5438 Dicliripariside B**

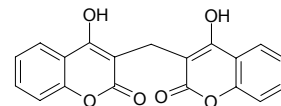
C₃₁H₃₆O₁₆ (664.62). Yellow powder, mp 210~212°C, [α]_D¹⁰ = -0.9° (c = 0.01, MeOH:pyridine = 1:1). Source: HE AN GOU GAN CAI *Dicliptera riparia*. Ref: 1945.

**5439 Dicliripariside C**

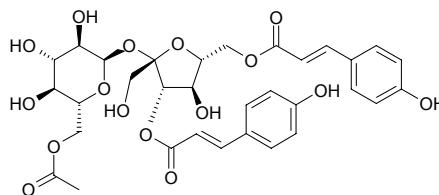
C₂₉H₃₄O₁₅ (622.59). Yellowish powder, mp 238~240°C, [α]_D¹⁰ = -1.3° (c = 0.016, MeOH:pyridine = 1:1). Source: HE AN GOU GAN CAI *Dicliptera riparia*. Ref: 1945.

**5440 Dicoumarin**

Dicoumarol [66-76-2] C₁₉H₁₂O₆ (336.30). mp 288~289°C. Pharm: Antineoplastic (inhibits cellular proliferation of EAC, ID₅₀ of synthesis of nucleic acid = 11.5μg/mL); platelet aggregation inhibitor; rodenticide; antithrombotic (intravenous thrombus, pulmonary embolism, heart infarction and infarction caused by atrial fibrillation); toxin (bleeding). Source: BAI XIANG CAO MU XI *Melilotus albus*, HONG CHE ZHOU CAO *Trifolium pratense*, MU XU *Medicago sativa*, PI HAN CAO *Melilotus suaveolens*, *Anthoxanthum* sp. Ref: 4, 5, 6, 658.

**5441 3,6-Di-O-p-coumaroyl-β-D-fructofuranosyl 6-O-acetyl-α-D-glucopyranoside**

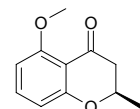
C₃₂H₃₆O₁₆ (676.63). Light yellow amorphous solid, [α]_D²³ = +23.4° (c = 0.25, MeOH). Source: JIAO YU *Canna edulis* (rhizome). Ref: 3836.

**5442 2,3-Dicresol**

[526-75-0] C₈H₁₀O (122.17). Source: DANG GUI *Angelica sinensis*. Ref: 2.

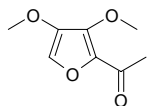
**5443 Dictafofin A**

C₁₁H₁₂O₃ (192.22). Colorless oil, [α]_D = +62.3° (c = 0.015, Me₂CO), [α]_D = +30.08° (c = 0.02, CHCl₃). Source: XIA YE BAI XIAN *Dictamnus angustifolius*. Ref: 1912.

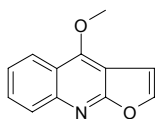


5444 Dictafolin B

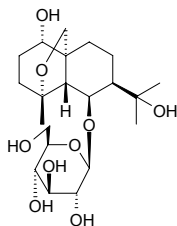
$C_8H_{10}O_4$ (170.17). Yellowish oil. Source: XIA YE BAI XIAN *Dictamnus angustifolius*. Ref: 1912.

**5445 Dictamnine**

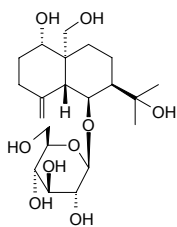
$C_{12}H_9NO_2$ (199.21). mp 132°C. Pharm: Antibacterial; antifungal; contracts blood vessels (blood vessel of rbt ear, *in vitro*); uterine stimulant (rbt and gpg); stimulates heart (frog heart *in vitro*, in low dose). Source: A NUO TI HUA JIAO *Zanthoxylum arnotianum*, BAI XIAN PI *Dictamnus dasycarpus* (root cortex: content = 0.12%)^[5501], CHU YE HUA JIAO *Zanthoxylum ailanthoides*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, DE KA RUI HUA JIAO *Zanthoxylum decaryi*, RI BEN BAI SONG FENG CAO *Boenninghausenia albiflora* var. *japonica*, YAN JIAO CAO *Boenninghausenia albiflora*, ZHU YE JIAO *Zanthoxylum planispinum*, ZHU YE JIAO GEN *Zanthoxylum planispinum*. Ref: 6, 658, 5501.

**5446 Dictamnoid A**

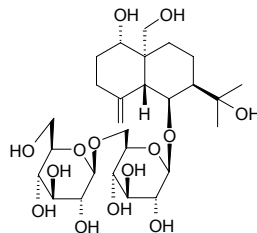
$C_{21}H_{36}O_9$ (432.52). Pharm: Immunoenhancer (*in vitro*, stimulates proliferation of T-cells, 0.00001 mol/L, $P < 0.001$). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5447 Dictamnoid B**

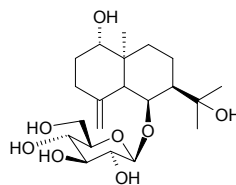
$C_{21}H_{36}O_9$ (432.52). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5448 Dictamnoid G**

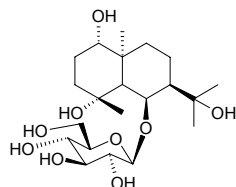
$C_{27}H_{46}O_{14}$ (594.66). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5449 Dictamnoid H**

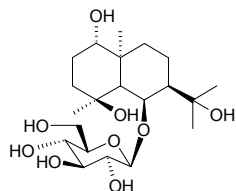
$C_{21}H_{36}O_8$ (416.52). White amorphous powder, $[\alpha]_D^{24} = -13.2^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5450 Dictamnoid I**

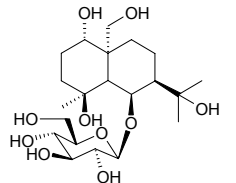
$C_{21}H_{38}O_9$ (434.53). White amorphous powder, $[\alpha]_D^{24} = -21.4^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5451 Dictamnoid J**

$C_{21}H_{38}O_9$ (434.53). White amorphous powder, $[\alpha]_D^{24} = -15.7^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

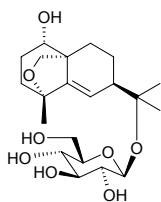
**5452 Dictamnoid K**

$C_{21}H_{38}O_{10}$ (450.53). White amorphous powder, $[\alpha]_D^{24} = -24.2^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

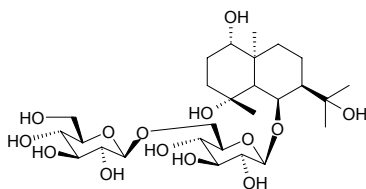


5453 Dictamnaside L

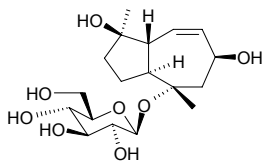
$C_{21}H_{34}O_8$ (414.5). White amorphous powder, $[\alpha]_D^{24} = -12.7^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5454 Dictamnaside M**

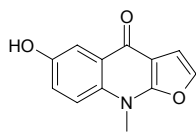
$C_{27}H_{48}O_{14}$ (596.68). White amorphous powder, $[\alpha]_D^{24} = -24.0^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5455 Dictamnaside N**

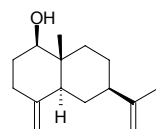
$C_{18}H_{30}O_8$ (374.44). White amorphous powder, $[\alpha]_D^{24} = -34.3^\circ$ ($c = 0.10$ MeOH). Source: BAI XIAN PI *Dictamnus dasycarpus* (root cortex). Ref: 3068.

**5456 Dictangustine A**

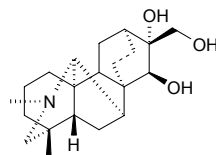
$C_{12}H_9NO_3$ (215.21). Yellowish powders (Me_2CO), mp $> 280^\circ C$. Source: XIA YE BAI XIAN *Dictamnus angustifolius*. Ref: 1912.

**5457 β -Dictyopterol**

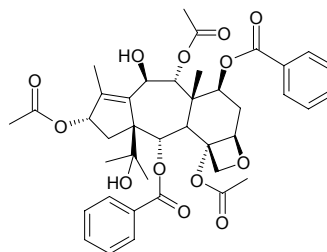
$C_{15}H_{24}O$ (220.36). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, $100\mu mol/L$, InRt = $(51.5 \pm 3.5)\%$, control L -NMMA, $100\mu mol/L$, InRt = $(79.2 \pm 0.9)\%$, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**5458 Dictysine**

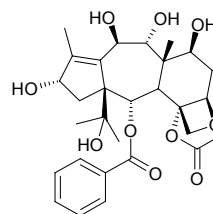
[67256-05-7] $C_{21}H_{33}NO_3$ (347.50). Source: FU ZI *Aconitum carmichaeli*. Ref: 16.

**5459 2,7-Dideacetyl-2,7-dibenzoyl-taxayunnanine F**

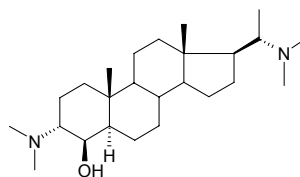
$C_{40}H_{46}O_{13}$ (734.80). mp $203\sim 205^\circ C$. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**5460 7,13-Dideacetyl-9,10-debenzoyltaxchinin C**

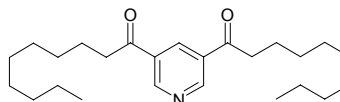
$C_{29}H_{38}O_{10}$ (546.62). mp $162^\circ C$, $[\alpha]_D = -15^\circ$ ($CHCl_3$). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**5461 N,O-Dideacetyl-N-methylpachysandrine A**

$C_{25}H_{46}N_2O$ (390.66). mp $126\sim 150^\circ C$. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

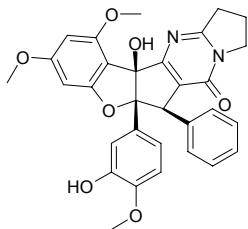
**5462 3,5-Didecanoylpyridine**

$C_{25}H_{41}NO_2$ (387.61). Source: YU XING CAO *Houttuynia cordata*. Ref: 2428.

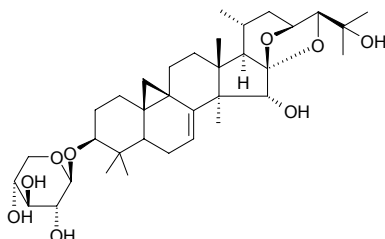


5463 Didehydro-3'-hydroxyaglaistatin

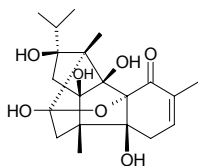
[259143-58-3] $C_{31}H_{28}N_2O_7$ (540.58). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 5.70\text{mg/L}$, $EC_{50} = 0.31\text{mg/L}$; control Azadirachtin, $LC_{50} = 0.9\text{mg/L}$, $EC_{50} = 0.04\text{mg/L}$). **Source:** *Aglaia duperreana*. **Ref:** 2376.

**5464 7,8-Didehydrocimigenol 3-O-β-D-xylopyranoside**

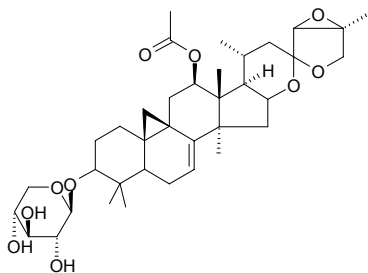
$C_{35}H_{54}O_9$ (618.82). **Source:** XING AN SHENG MA *Cimicifuga dahurica* (rhizome). **Ref:** 4140.

**5465 2,3-Didehydrocinnzeylanone**

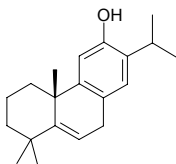
$C_{20}H_{28}O_7$ (380.44). **Source:** YIN DU E LI *Persea indica* (aerial parts). **Ref:** 5128.

**5466 7,8-Didehydro-27-deoxyactein**

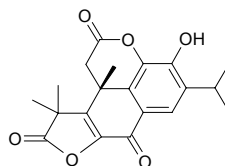
$C_{37}H_{54}O_{10}$ (658.84). White crystals, mp 260–262°C (CH_3CN/H_2O). **Source:** SHENG MA *Cimicifuga foetida*. **Ref:** 2427.

**5467 5,6-Didehydroferruginol**

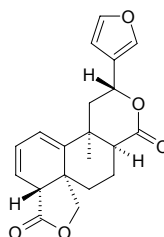
$C_{20}H_{28}O$ (284.45). Amorphous solid, mp 145°C, $[\alpha]_D^{25} = +35.3^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*. **Ref:** 5401.

**5468 5,6-Didehydropygmaecocin A**

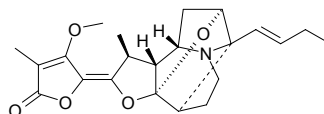
[122590-06-1] $C_{20}H_{20}O_6$ (356.38). Yellow crystals (MeOH), mp 211–213°C. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3119.

**5469 1,10-Didehydrosalviarin**

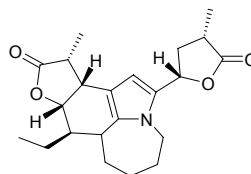
$C_{20}H_{20}O_5$ (340.38). Crystals (*n*-hexane- $CHCl_3$), mp 186–188°C, $[\alpha]_D^{25} = -200.2^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** *Salvia wagneriana* (aerial parts). **Ref:** 4976.

**5470 Didehydrostemofoline**

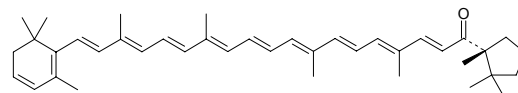
Asparagamine A $C_{22}H_{27}NO_5$ (385.46). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 0.8\text{mg/L}$, $EC_{50} = 0.5\text{mg/L}$). **Source:** XIAO QIU BAI BU *Stemona collinsae*. **Ref:** 3409.

**5471 Didehydrotuberostemonine**

$C_{22}H_{29}NO_4$ (371.48). Colorless acicular crystals, mp 176–177°C. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 673.

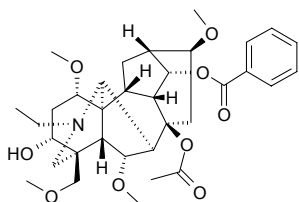
**5472 3,4-Didehydroxy-3'-deoxycapsanthin**

(5'*R*)-3,4-Didehydro-β,κ-caroten-6'-one $C_{40}H_{54}O$ (550.88). **Source:** HONG HAI JIAO *Capsicum annuum* (fruit: yield = 0.000013%). **Ref:** 3007.

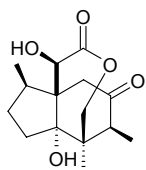


5473 13,15-Dideoxyaconitine

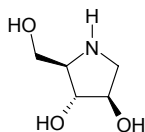
[77757-14-3] $C_{34}H_{47}NO_9$ (613.75). Colorless rhomboid crystals, mp 167~169°C, $[\alpha]_D^{25} = +16.4^\circ$ ($c = 0.07$, ethanol). Source: SONG PAN WU TOU *Aconitum sungpanense*, ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0022%dw)^[4678]. Ref: 107, 4678.

**5474 3,6-Dideoxy-10-hydroxypseudoanisatin**

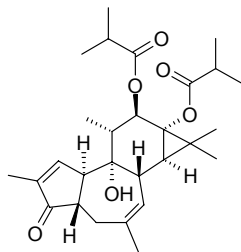
$C_{15}H_{22}O_5$ (282.34). Colorless amorphous. Source: *Illicium merrillianum* (pericarp). Ref: 5113.

**5475 1,4-Dideoxy-1,4-imino-arabinitol**

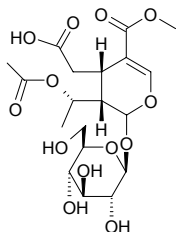
$C_5H_{11}NO_3$ (133.15). Source: SANG ZHI *Morus alba*. Ref: 2170.

**5476 4,20-Dideoxyphorbol 12,13-bis(isobutyrate)**

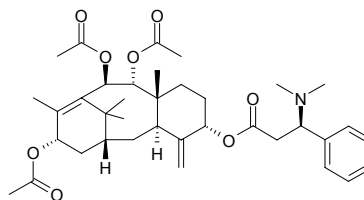
[250258-01-6] $C_{28}H_{40}O_6$ (472.63). Oil, $[\alpha]_D = +54^\circ$ ($c = 0.74$, $CHCl_3$). Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365.

**5477 Diderroside**

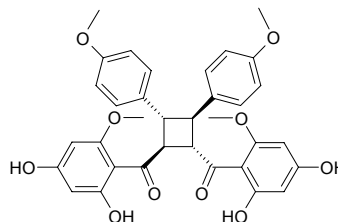
[86989-19-7] $C_{19}H_{28}O_{13}$ (464.43). Pharm: Antitrypanosomal (trypomastigotes of *Trypanosoma cruzi*, *in vitro*, $IC_{50} = 84.9\mu g/mL$, control Gentian violet, $IC_{50} = 7.5\mu g/mL$). Source: *Calycophyllum spruceanum*. Ref: 3439.

**5478 7,2'-Didesacetoxy austrospicatin**

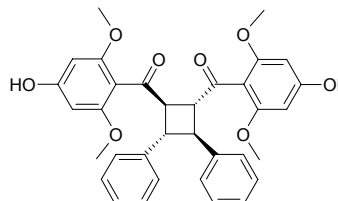
$C_{37}H_{51}NO_8$ (637.82). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**5479 (rel)-1β,2α-Di-(2,4-dihydroxy-6-methoxybenzoyl)-3β,4α-di-(4-methoxyphenyl)-cyclobutane**

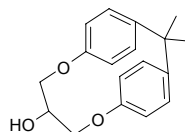
$C_{34}H_{32}O_{10}$ (600.63). Pale amorphous solid, $[\alpha]_D^{23.5} = +17.2^\circ$ ($c = 0.29$, $CHCl_3$). Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**5480 rel-(1α,2β)-Di-(2,6-dimethoxy-4-hydroxy)-benzoyl-rel-(3α,4β)-di-phenylcyclobutane**

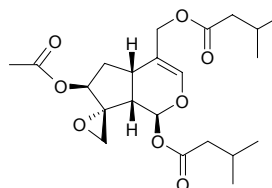
$C_{34}H_{32}O_8$ (568.53). White crystalline solid, mp 213°C, $[\alpha]_D^{21} = +17.5^\circ$ ($c = 0.5$, MeOH). Source: BAI DIAN FENG CHE ZI *Combretum albopunctatum* (aerial parts). Ref: 3766.

**5481 1,3-Di-O-[2',2'-di-(p-phenylene) isopropylidene] glycerol**

$C_{18}H_{20}O_3$ (284.36). White powder. Source: XI NANG MA WEI ZAO *Sargassum parvivesiculosum*. Ref: 2591.

**5482 Didrovaltratum**

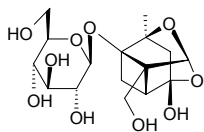
Dihydrovaltrate [18296-45-2] $C_{22}H_{32}O_8$ (424.50). Pharm: Sedative. Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (rhizome and root: yield = 0.000013%dw)^[4672], *Valeriana* sp. Ref: 658, 4672.



5483 8-Diebenzoylpaeoniflorin

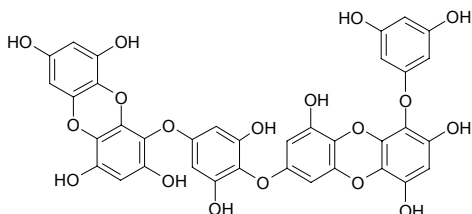
$C_{16}H_{24}O_{10}$ (376.36). Amorphous white powder, $[\alpha]_D = -9.6^\circ$ ($c = 1.0$, MeOH).

Source: CHI SHAO *Paeonia lactiflora* wild. Ref: 722.

**5484 Dieckol**

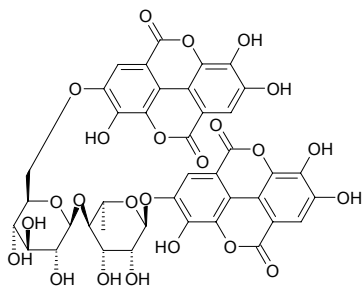
[88095-77-6] $C_{36}H_{22}O_{18}$ (742.57). Amorphous powder, mp > 300°C. Pharm:

Antifibrinolysis (α_2 -macroglobulin, $IC_{50} = 5.0\mu\text{g/mL}$, α_2 -fibrinolysin, $IC_{50} = 0.8\mu\text{g/mL}$)^[955]; antioxidant (DPPH scavenger, $IC_{50} = 6.2\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 10.3\mu\text{mol/L}$)^[4376]. Source: HEI KUN BU *Ecklonia kurome*, Brown alga *Ecklonia stolonifera*. Ref: 955, 4376.

**5485 Diellagic acid rhamnoside (1→4) glucopyranoside**

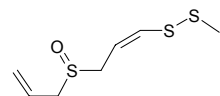
$C_{40}H_{30}O_{24}$ (894.67). Yellowish amorphous powder. Source: SHI LIU XIN

CAI *Punica granatum*. Ref: 1942.

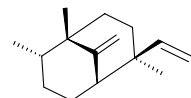
**5486 Z-4,9-Diene-2,3,7-trithiadeca-7-oxide**

$C_7H_{12}OS_3$ (208.37). Colorless oil liquid. Source: DA SUAN *Allium sativum*.

Ref: 2118.

**5487 (-)-3,4-Di-epi-3,7-trifara-9,14-diene**

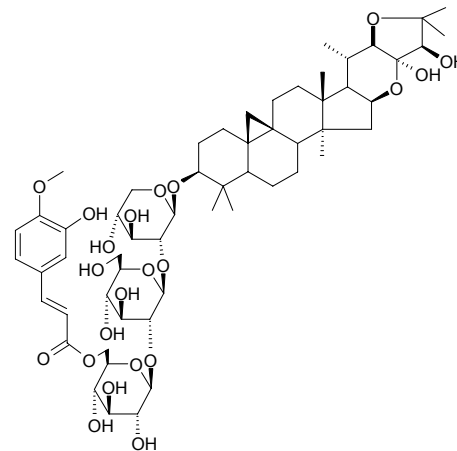
$C_{15}H_{24}$ (204.36). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 735.

**5488 20S,22R,23S,24R-16β,23;22,25-Diepoxy-cycloartane-3β,23,24-triol 3-O-(6-O-trans-isoferuloyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-xylopyranoside**

$C_{57}H_{84}O_{22}$ (1121.29). White powder, $[\alpha]_D^{25} = -35.4^\circ$ ($c = 0.3$, MeOH). Pharm:

Immunosuppressant (mouse allogeneic mixed lymphocyte reaction, suppresses the proliferation of lymphocytes, $IC_{50} = 99.6\mu\text{mol/L}$). Source:

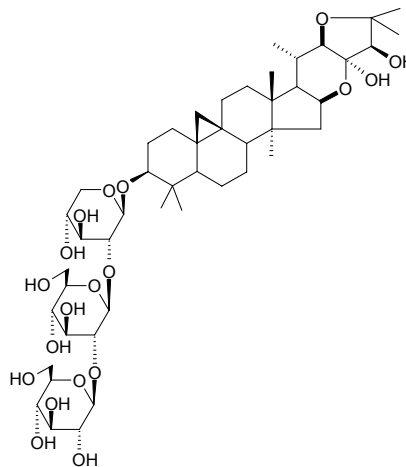
Cimicifuga sp. (rhizome). Ref: 4330.

**5489 20S,22R,23S,24R-16β,23;22,25-Diepoxy-cycloartane-3β,23,24-triol 3-O-β-D-glucopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-xylopyranoside**

$C_{47}H_{76}O_{19}$ (945.12). White powder, $[\alpha]_D^{25} = -8.5^\circ$ ($c = 0.3$, MeOH). Pharm:

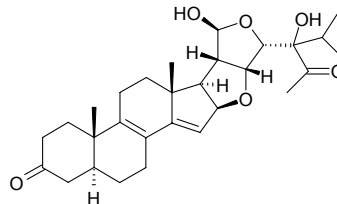
Immunosuppressant (mouse allogeneic mixed lymphocyte reaction, suppresses the proliferation of lymphocytes, $IC_{50} = 55.6\mu\text{mol/L}$). Source:

Cimicifuga sp. (rhizome). Ref: 4330.

**5490 16β,22R;21,23S-Diepoxy-21S,24-dihydroxy-5α-stigmasta-8,14-diene-3,28-dione**

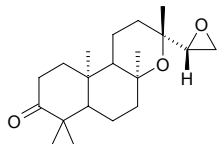
$C_{29}H_{40}O_6$ (484.64). Colorless oil, $[\alpha]_D = +26.6^\circ$ ($c = 0.3$, CH_2Cl_2). Source: JI

NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 3412.

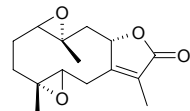


5491 (13R,14S)-ent-8 α ,13;14,15-Diepoxy-13-epi-labdan-3-one

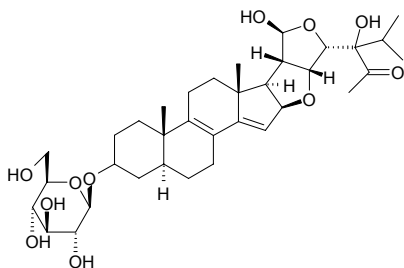
C₂₀H₃₂O₃ (320.48). Colorless needles (MeOH), mp 145–146°C, [α]_D²⁵ = –26.0° (*c* = 0.5, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**5492 1 β ,10 α ,4 α ,5 β -Diepoxyglechoman-8 α ,12-olide**

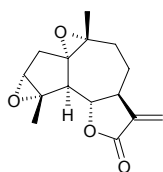
C₁₅H₂₀O₄ (264.32). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 94 μ g/mL)^[5162]. Source: XIAO MEI WEI QIN *Smyrniun olusatrum* (fruit). Ref: 5162.

**5493 16 β ,22R;21,23S-Diepoxy-3 β -O- β -D-glucopyranosyloxy-21S,24-dihydroxy-5 α -stigmasta-8,14-dien-28-one**

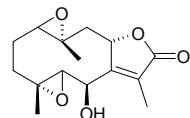
C₃₅H₅₂O₁₁ (648.80). Yellowish powder (acetone), mp 187–188°C, [α]_D = –80° (*c* = 0.7, MeOH). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 3412.

**5494 5 α H-1 α ,10 α :3 α ,4 α -Diepoxyguaia-11(13)-en-6 α ,12-olide**

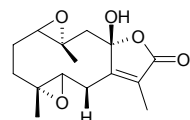
C₁₅H₁₈O₄ (262.31). Pharm: Cytotoxic (KB ATCC CCL17, IC₅₀ = 4.3 μ g/mL). Source: *Warionia saharae*. Ref: 5399.

**5495 1 β ,10 α ,4 α ,5 β -Diepoxy-6 β -hydroxyglechoman-8 α ,12-olide**

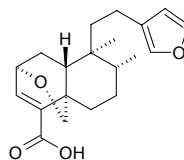
C₁₅H₂₀O₅ (280.32). White needle crystals (MeOH), mp 165–168°C. Source: XIAO MEI WEI QIN *Smyrniun olusatrum* (fruit). Ref: 5162.

**5496 1 β ,10 α ,4 α ,5 β -Diepoxy-8 α -hydroxyglechoman-8 α ,12-olide**

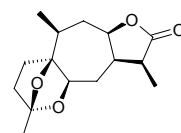
C₁₅H₂₀O₅ (280.32). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 88 μ g/mL). Source: XIAO MEI WEI QIN *Smyrniun olusatrum* (fruit). Ref: 5162.

**5497 2,19;15,16-Diepoxy-neo-clerodan-3,13(16),14-trien-18-oic acid**

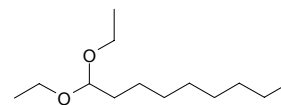
C₂₀H₂₆O₄ (330.43). Colorless oil, [α]_D²⁰ = +6.1° (*c* = 0.26, CHCl₃). Source: SHAN XING KUO BAO JU *Baccharis flabellata*. Ref: 1921.

**5498 1 β ,4 β ,4 α ,5 β -Diepoxy-10 α ,11 α H-xantha-12,8 β -olide**

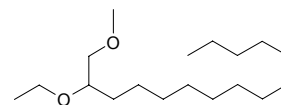
C₁₅H₂₂O₄ (266.34). Colorless gum, [α]_D²⁰ = –16.0° (*c* = 0.22, CHCl₃). Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0003%dw). Ref: 4736.

**5499 1,1-Diethoxy-*n*-nonane**

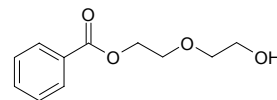
C₁₃H₂₈O₂ (216.37). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 2.

**5500 1,1-Diethoxy-*n*-tetradecane**

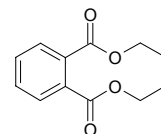
C₁₈H₃₈O₂ (286.50). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 2.

**5501 Diethylene glycol monobenzoate**

C₁₁H₁₄O₄ (210.23). Colorless oil. Source: TAN XIANG *Santalum album* (heartwood). Ref: 4468.

**5502 Diethylphthalate**

[84-66-2] C₁₂H₁₄O₄ (222.24). bp 295°C. Pharm: Anthelmintic; detumescent; LD₅₀ (rbt, orl) = 1.0g/kg. Source: SHUI QIN *Oenanthe javanica*. Ref: 6, 658.

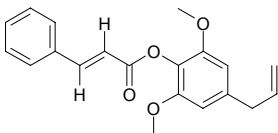


5503 Diethyl sulfide

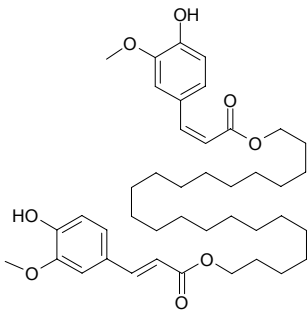
3-Thiapentane; Ethyl sulfide [352-93-2] C₄H₁₀S (90.19). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**5504 Difengpin**

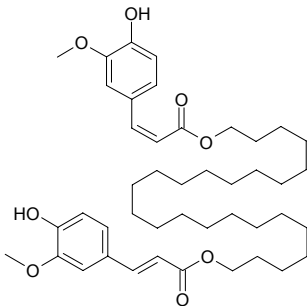
4-Allyl-2,6-dimethoxyphenyl cinnamate C₂₀H₂₀O₄ (324.38). Colorless granular crystals, mp 153~155°C (petroleum spirit-acetic acid). Source: DI FENG PI *Illicium difengpi*. Ref: 354.

**5505 (1E,22Z)-1,22-Diferuloyloxydocosane**

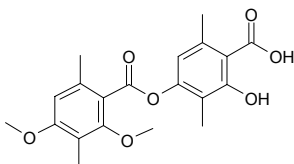
C₄₂H₆₂O₈ (694.96). Inseparable mixture with (1E,24Z)-1,24-Diferuloyloxy-tetracosane, yellow oil. Source: SHAN ZHU ZI *Garcinia multiflora* (stem). Ref: 4708.

**5506 (1E,24Z)-1,24-Diferuloyloxytetracosane**

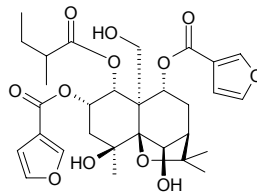
C₄₄H₆₆O₈ (723.01). Inseparable mixture with (1E,22Z)-1,22-Diferuloyloxydocosane, yellow oil. Source: SHAN ZHU ZI *Garcinia multiflora* (stem). Ref: 4708.

**5507 Diffractaic acid**

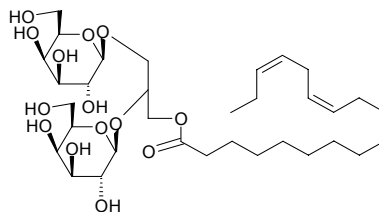
[436-32-8] C₂₀H₂₂O₇ (374.39). mp 189~190°C. Pharm: Antineoplastic (inhibits a tumor which induces Epstein-Barr virus activation). Source: SONG LUO *Usnea longissima*, HUAN JIE SONG LUO *Usnea diffracta*. Ref: 6, 658, 660.

**5508 2α,9β-Di-(β-furancarboxyloxy)-4β,6β,15-trihydroxy-1α-(2)-methylbutanoyloxy-dihydro-β-agarofuran**

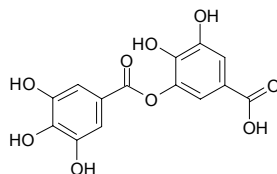
C₃₀H₃₈O₁₂ (590.63). Colorless oil, [α]_D²⁵ = +30.0° (c = 0.13, CHCl₃) Source: OU ZHOU WEI MAO *Euonymus europaeus* (seed). Ref: 4162.

**5509 α,β-Digalactosyl-α'-linolenic-glyceride**

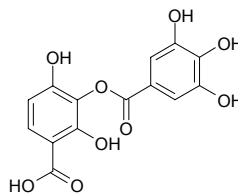
C₃₃H₅₆O₁₄ (676.81). Red oil liquid. Source: SU MI *Setaria italica*. Ref: 2112.

**5510 m-Digallic acid**

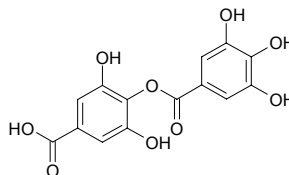
[536-08-3] C₁₄H₁₀O₉ (322.23). mp 268~270°C (dec). Source: A LA BO JIAO JIN HE HUAN *Acacia nilotica*, MANG GUO *Mangifera indica*. Ref: 6, 5375.

**5511 m-Digalloyl acid**

C₁₄H₁₀O₉ (322.23). Colorless colloid. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 677.

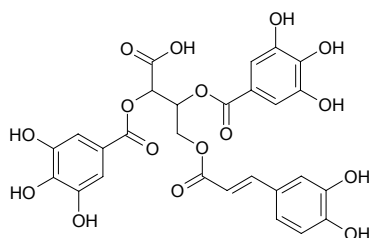
**5512 p-Digalloyl acid**

C₁₄H₁₀O₉ (322.23). Source: LUAN SHU *Koelreuteria paniculata*. Ref: 677.

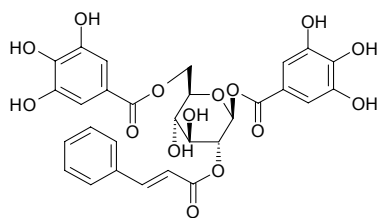


5513 (-)-2,3-Digalloyl-4-(E)-caffeoyl-L-threonic acid

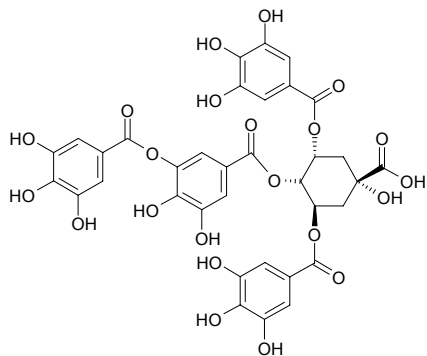
$C_{27}H_{22}O_{16}$ (602.47). Dark brown amorphous powder, mp 215–217°C, $[\alpha]_D^{20} = -38^\circ$ ($c = 0.05$, MeOH). Source: DENG TAI SHU *Cornus controversa* [Syn. *Bothrocaryum controversum*] (leaf). Ref: 3918.

**5514 1,6-Digalloyl-2-cinnamoyl-glucose**

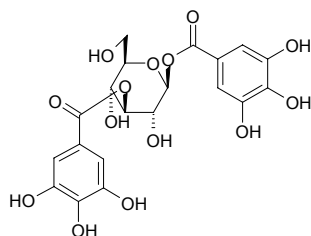
$C_{29}H_{26}O_{15}$ (614.52). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

**5515 3,5-Di-O-galloyl-4-O-digalloylquinic acid**

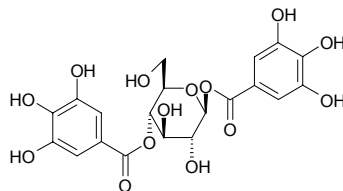
$C_{35}H_{28}O_{22}$ (800.60). Pharm: Anti-AIDS; reverse transcriptase inhibitor (hmn immunodeficiency virus). Source: YAN FU ZI *Rhus chinensis* [Syn. *Rhus semialata*]. Ref: 658.

**5516 1,3-Di-O-galloyl-β-D-glucopyranose**

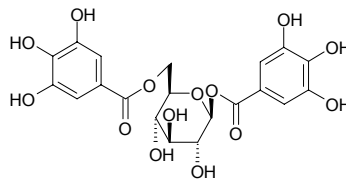
$C_{20}H_{20}O_{14}$ (484.37). Yellow amorphous powder, $[\alpha]_D^{15} = +17.3^\circ$ ($c = 0.7$, MeOH). Source: GE XUN *Balanophora japonica* (aerial parts: yield = 0.0353%). Ref: 4101.

**5517 1,4-Di-O-galloylglucose**

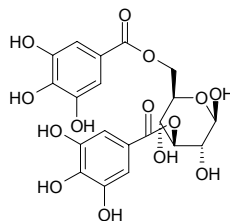
$C_{20}H_{20}O_{14}$ (484.37). Source: AN MO LE *Phyllanthus emblica* (branch and leaf). Ref: 3094.

**5518 1,6-Di-O-galloyl-β-glucose**

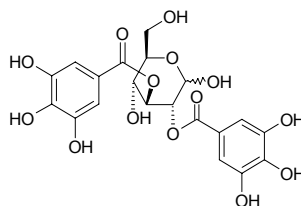
$C_{20}H_{20}O_{14}$ (484.37). $[\alpha]_D^{25} = -22^\circ$ ($c = 0.1$, MeOH). Pharm: Antifungal (*Candida albicans* ATCC2091, MIC > 200μg/mL, control Amphotericin B, MIC = 1μg/mL; *Candida albicans* 32, MIC = 25μg/mL, Amphotericin B, MIC = 4μg/mL; *Candida albicans* 19, MIC = 12.5μg/mL, Amphotericin B, MIC = 2μg/mL)^[5021]; cytotoxic inactive (MIC > 200μg/mL)^[5021]. Source: AN MO LE *Phyllanthus emblica* (fruit juice)^[3094], DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*, *Baseonema acuminatum* (leaf). Ref: 2, 660, 3094, 5021.

**5519 3,6-Di-O-galloylglucose**

$C_{20}H_{20}O_{14}$ (484.37). mp 185°C (dec). Source: AN MO LE *Phyllanthus emblica* (leaf, branch)^[3094], CAO YUAN LAO GUAN CAO *Geranium pratense*, QUAN SHEN *Polygonum bistorta*, YOU GAN YE *Phyllanthus emblica*, YOU GAN MU PI *Phyllanthus emblica*. Ref: 6, 3094.

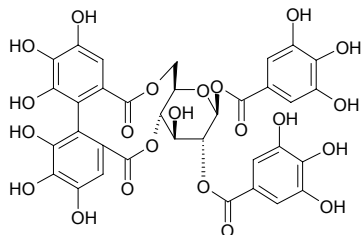
**5520 2,3-Di-O-galloyl-D-glucose**

Nicotin $C_{20}H_{20}O_{14}$ (484.37). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 2.



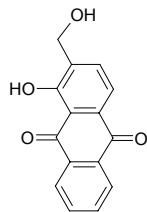
5521 1,2-Di-O-galloyl-4,6-O-(S)-hexahydroxydiphenoyl-β-D-glucopyranose

$C_{34}H_{26}O_{22}$ (786.57). **Pharm:** Antioxidant (SOD-like activity, EC_{50} = 76.3 μmol/L, control Gallic acid, EC_{50} = 31.7 μmol/L, *L*-Ascorbic acid, EC_{50} = 34.6 μmol/L); antioxidant (DPPH free radical scavenger, EC_{50} = 1.27 μmol/L, control Gallic acid, EC_{50} = 5.88 μmol/L, *L*-Ascorbic acid, EC_{50} = 6.25 μmol/L). **Source:** HU TAO REN *Juglans regia*. **Ref:** 3408.



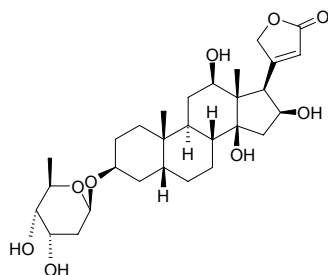
5522 Digiferrugineol

1-Hydroxy-2-hydroxymethyl anthraquinone $C_{15}H_{10}O_4$ (254.24). **Pharm:** Cytotoxic (KB, ED_{50} > 25 μg/mL, control Doxorubicin, ED_{50} = 0.12 μg/mL; Hep3B, ED_{50} = 3.85 μg/mL, Doxorubicin, ED_{50} = 0.14 μg/mL; Colon205, ED_{50} > 25 μg/mL, Doxorubicin, ED_{50} = 0.10 μg/mL; HeLa, ED_{50} = 24.5 μg/mL, Doxorubicin, ED_{50} = 0.11 μg/mL)^[4369]; cytotoxic (hmn nasopharyngeal epidermoid carcinoma cells, *in vitro*); antibacterial (*Bacillus subtilis*, *Escherichia coli*). **Source:** BAI YAN TENG *Morinda parvifolia*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), HU CI *Damnacanthus indicus*, JIN JI LE *Cinchona ledgeriana*, QIAN CAO GEN *Rubia cordifolia*, XIU MAO DI HUANG *Digitalis ferruginea*, *Cinchona* sp. **Ref:** 658, 660, 4369.



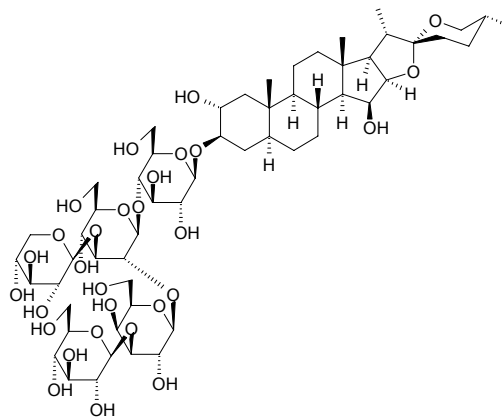
5523 Diginatin

[52589-12-5] $C_{29}H_{44}O_9$ (536.67). **Pharm:** Cardiotoxic; toxin (vertebrate). **Source:** MAO HUA MAO DI HUANG *Digitalis lanata*. **Ref:** 1521.



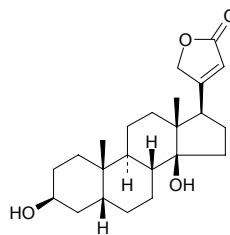
5524 Digitonin

[11024-24-1] $C_{56}H_{92}O_{29}$ (1229.34). **Pharm:** Antibacterial; antifungal. **Source:** MAO DI HUANG *Digitalis purpurea*. **Ref:** 658.



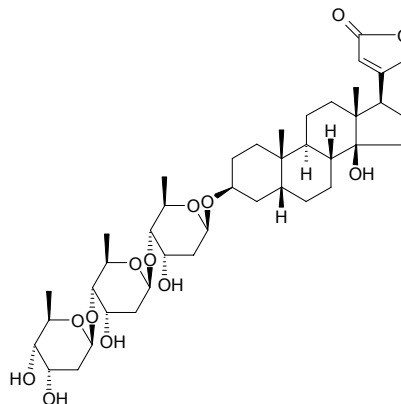
5525 Digitoxigenin

(17β)-Card-20(22)-enolide [143-62-4] $C_{23}H_{34}O_4$ (374.53). Mp 253°C. **Source:** FU SHOU CAO *Adonis amurensis*. **Ref:** 6.



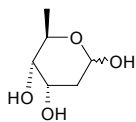
5526 Digitoxin

[71-63-6] $C_{41}H_{64}O_{13}$ (764.96). Long and thin rectangular lamellar crystals (ethanol), containing 0.5 or 1 H₂O. pure crystals, mp 256–257°C, $[\alpha]_D^{20}$ = +48° (*c* = 1.2, dioxane). **Pharm:** Cardiotoxic; LD₅₀ (gpg, orl) = 600mg/kg, (cat, orl) = 0.18mg/kg, (cat, iv) = 0.4mg/kg. **Source:** MAO DI HUANG *Digitalis purpurea* (dried leaf: content = 0.0226%^[5508]), MAO HUA MAO DI HUANG *Digitalis lanata*. **Ref:** 658, 5508.

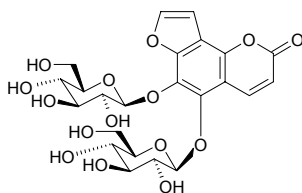


5527 Digitoxose

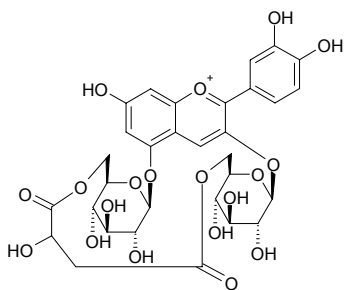
$C_6H_{12}O_4$ (148.16). mp 110–112°C. Source: LUO MO ZI *Metaplexis japonica*. Ref: 6.

**5528 5,6-O-β-D-Diglucoopyranosylangelicin**

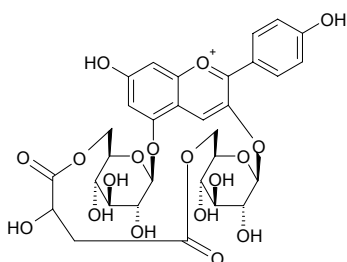
$C_{23}H_{26}O_{15}$ (542.45). White amorphous powder, $[\alpha]_D^{20} = -30.0^\circ$ ($c = 0.01$, pyridine). Pharm: Antiproliferation inactive (hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100μmol/L; control Cyclosporine, $IC_{50} = 12\text{nmol/L}$). Source: LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf; yield = 0.00023%fw). Ref: 4794.

**5529 3,5-Di-O-(β-glucopyranosyl)cyanidin 6''-O-4,6'''-O-1-cyclic malate**

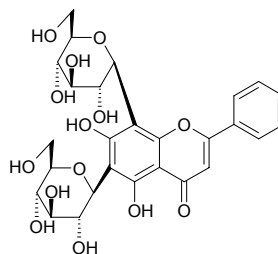
$C_{31}H_{33}O_{19}^+$ (709.60). Source: SHE XIANG SHI ZHU *Dianthus caryophyllus* (petal). Ref: 5118.

**5530 3,5-Di-O-(β-glucopyranosyl)pelargonidin 6''-O-4,6'''-O-1-cyclic malate**

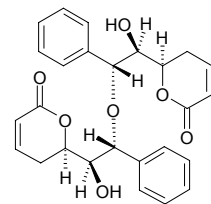
$C_{31}H_{33}O_{18}^+$ (693.60). Source: SHE XIANG SHI ZHU *Dianthus caryophyllus* (petal). Ref: 5118.

**5531 6,8-Di-C-β-glucosylchrysin**

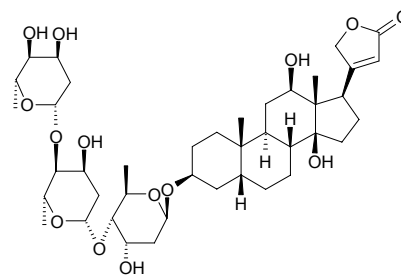
6,8-Di-β-glucopyranosyl-5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one $C_{27}H_{30}O_{14}$ (578.53). Amorphous powder. Pharm: Anti-inflammatory inactive (*in vivo*, carrageenan-induced rat paw edema). Source: *Lychophora ericoides* (fresh leaf). Ref: 5040.

**5532 Digonidiol**

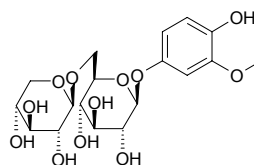
$C_{26}H_{26}O_7$ (450.49). Colorless prisms, mp 166–168°C, $[\alpha]_D^{23} = -35.5^\circ$ ($c = 0.11$, MeOH). Pharm: Cytotoxic (HepG2, $IC_{50} = 6.83\mu\text{g/mL}$, control Doxorubicin, $IC_{50} = 0.38\mu\text{g/mL}$; Hep3B, $IC_{50} = 20.15\mu\text{g/mL}$, Doxorubicin, $IC_{50} = 0.36\mu\text{g/mL}$; MDA-MB-231, $IC_{50} = 6.80\mu\text{g/mL}$, Doxorubicin, $IC_{50} = 1.20\mu\text{g/mL}$; NCF-7, inactive). Source: TAI WAN GE NA XIANG *Goniiothalamus amuyon* (stem and leaf). Ref: 5056.

**5533 Digoxin**

[20830-75-5] $C_{41}H_{64}O_{14}$ (780.96). Scattering tetrahedral or pentahedral trioblique lamellar crystals (diluting ethanol or diluting pyridine), mp 260–265°C (some dec). Pharm: Cardiotonic. Source: MAO HUA MAO DI HUANG *Digitalis lanata*. Ref: 658.

**5534 Digupigan A**

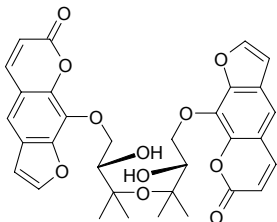
4-Hydroxy-3-methoxyphenyl-β-D-xylopyranosyl(1→6)-β-D-glucopyranoside $C_{18}H_{26}O_{12}$ (434.40). Amorphous powder, $[\alpha]_D^{22} = -67^\circ$ ($c = 0.3$, MeOH). Source: GOU QI GEN PI *Lycium chinense*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 2451, 4310.



5535 (12*R*,12''*R*)-Diheraclenol

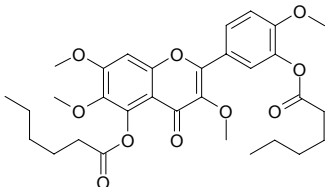
$C_{32}H_{30}O_{11}$ (590.59). Pale-yellow amorphous solid, $[\alpha]_D^{19.1} = +28.31^\circ$ ($c = 0.36$, $CHCl_3$). **Pharm:** Platelet aggregation inhibitor inactive (rbt platelets, 4.5nmol/L PAF-induced, 350 μ mol/L AA-induced, 5 μ mol/L ADP-induced, 240 μ mol/L).

Source: BAI YUN HUA *Heracleum rapula* (fresh root). **Ref:** 4997.

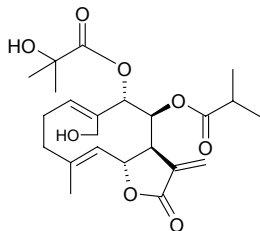
**5536 5,3'-Dihexanoyloxy-3,6,7,4'-tetramethoxyflavone**

$C_{31}H_{38}O_{10}$ (570.64). mp 100–101°C. **Pharm:** Cytotoxic (*in vitro*, Col2, $ED_{50} > 20\mu$ g/mL; hTERT-RPE1, $ED_{50} = 0.4\mu$ g/mL; HUVEC, $ED_{50} = 11.1\mu$ g/mL; KB, $ED_{50} = 0.5\mu$ g/mL; HUVEC, $ED_{50} = 0.5\mu$ g/mL; Lu1, $ED_{50} = 0.7\mu$ g/mL).

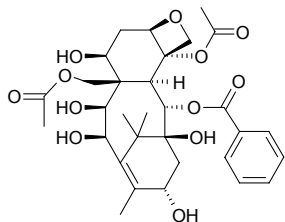
Source: HUANG JING YE *Vitex negundo*. **Ref:** 4699.

**5537 Dihydroacanthospermal A**

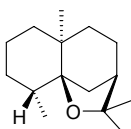
$C_{23}H_{32}O_8$ (436.51). Amorphous gum. **Pharm:** Antineoplastic (mus, P_{388} , *in vivo*); cytotoxic (KB *in vitro*, $ED_{50} = 2.6\mu$ g/mL). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 661.

**5538 9(β H)-9-Dihydro-19-acetoxy-10-deacetylbaccatin III**

$C_{31}H_{40}O_{12}$ (604.66). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

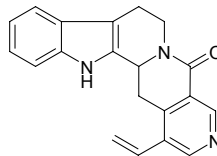
**5539 Dihydroagarofuran**

[5956-09-2] $C_{15}H_{26}O$ (222.37). Bp 135°C/8mmHg. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 6, 13.

**5540 3,14-Dihydroangustine**

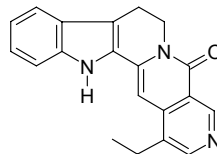
$C_{20}H_{17}N_3O$ (315.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*).

Source: KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**5541 18,19-Dihydroangustine**

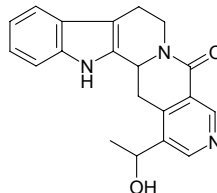
$C_{20}H_{17}N_3O$ (315.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*).

Source: KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

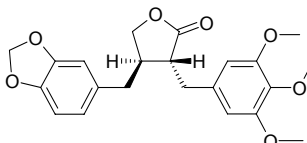
**5542 3,14-Dihydroangustoline**

$C_{20}H_{19}N_3O_2$ (333.39). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*).

Source: KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

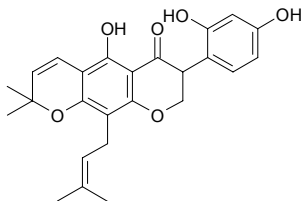
**5543 Dihydroanhydropodorhizol**

Dehydroypodorhizol; (-)-Yatein $C_{22}H_{24}O_7$ (400.43). $[\alpha]_D^{20} = -26.8^\circ$ ($c = 1$, $CHCl_3$). **Pharm:** Antineoplastic; cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells)^[5038]; CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 1\mu$ mol/L; CYP2D6, $IC_{50} = 95.7\mu$ mol/L; control Ketoconazole, CYP3A4, $IC_{50} = 0.72\mu$ mol/L; control Quinidine, CYP2D6, $IC_{50} = 0.082\mu$ mol/L)^[4797]. **Source:** BEI MEI YA BAI *Thuja occidentalis*, BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00017%dw), E SHEN *Anthriscus sylvestris*, HONG CHAI HU *Bupleurum scorzonrifolium* (root), LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed), *Juniperus* sp. **Ref:** 658, 3498, 4797, 5030, 5038, 5499.

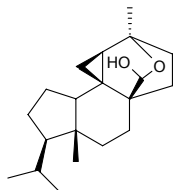


5544 2,3-Dihydroauriculatin

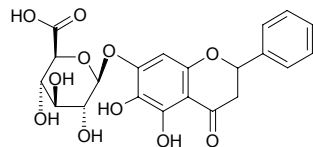
$C_{25}H_{26}O_6$ (422.48). Source: SAI NEI JIA ER CI TONG *Erythrina senegalensis*, *Erythrina vogelii*. Ref: 1521, 4421.

**5545 Dihydroazorellolide**

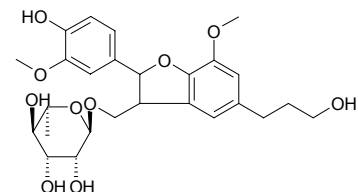
$C_{20}H_{32}O_2$ (304.48). Colorless needles, mp 121~122°C, $[\alpha]_D^{19.8} = +27.84^\circ$ ($c = 0.58$, $CHCl_3$). Source: YIN HUA YAO XIAO YING QIN *Azorella cryptantha* (aerial parts). Ref: 3825.

**5546 Dihydrobaicalin**

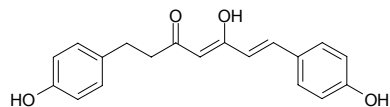
$C_{21}H_{20}O_{11}$ (448.39). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**5547 2,3-Dihydrobenzofuran-2-(4'-hydroxy-3'-methoxyphenyl)-3- α -L-rhamnopyranosyloxymethyl-7-methoxy-5-propanol**

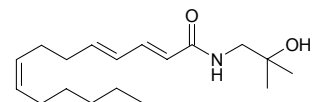
$C_{26}H_{34}O_{10}$ (506.55). Brownish amorphous powder, $[\alpha]_D^{25} = -10^\circ$ ($c = 0.1$, MeOH). Pharm: Antifungal inactive (*Candida albicans*, MIC > 200 μ g/mL; control Amphotericin B, MIC = 1~4 μ g/mL); antibacterial inactive. Source: *Baseonema acuminatum* (leaf). Ref: 5021.

**5548 1,2-Dihydrobis(de-O-methyl)-curcumin**

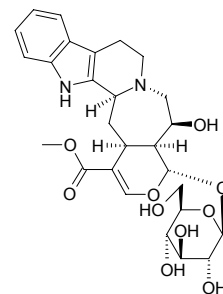
$C_{19}H_{18}O_4$ (310.35). Pharm: Cytotoxic (Colon26-L5, $ED_{50} = 62.6 \mu$ mol/L; HT1080, $ED_{50} > 100 \mu$ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed; yield = 0.00070%). Ref: 3042.

**5549 Dihydrobungeanol**

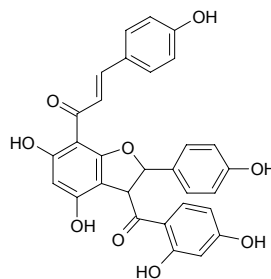
$C_{18}H_{31}NO_2$ (293.45). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

**5550 3 α -Dihydrocadambine**

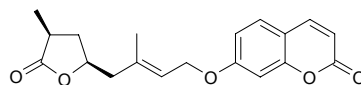
3 α -19-(S)-Dihydrocadambine [54483-84-0] $C_{27}H_{34}N_2O_{10}$ (546.58). White amorphous powder, mp 144~145°C (dec), $[\alpha]_D = -91^\circ$ ($c = 0.097$, methanol). Pharm: Antihypertensive (strong and enduring, rat, iv 0.1mg/kg, arterial blood pressure is lowered by 20mmHg); antihypertensive (anesthetized and conscious spontaneously hypertensive rats)^[5341]; antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial. Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HUA GOU TENG *Uncaria sinensis*. Ref: 2, 902, 961, 2178, 5341.

**5551 Dihydrocalodenin B**

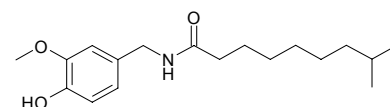
$C_{30}H_{22}O_9$ (526.50). Pharm: Antibacterial (MDR *Staphylococcus aureus*: RN4220 strain, MIC = 8 μ g/mL = 15 μ mol/L, control Erythromycin, MIC = 128 μ g/mL; XU212 strain, MIC = 8 μ g/mL = 15 μ mol/L, control Tetracycline, MIC = 128 μ g/mL; SA-1199-B strain, MIC = 8 μ g/mL = 15 μ mol/L, control Norfloxacin, MIC = 32 μ g/mL); cytotoxic (MCF7 breast cancer cells, MTT method, $IC_{50} = (35 \pm 7) \mu$ mol/L, control Doxorubicin, $IC_{50} = (0.1 \pm 0.001) \mu$ mol/L). Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*, SANG DAO BU SHI MU *Brackenridgea zanguebarica*. Ref: 5372.

**5552 3'',4''-Dihydrocapnolactone**

$C_{19}H_{20}O_5$ (328.37). White needles, mp 59~62°C. Source: JI XIAO XIAO YUN XIANG MU *Micromelum minutum* (leaf). Ref: 3467.

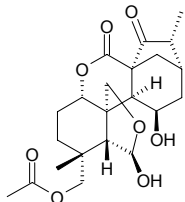
**5553 Dihydrocapsaicin**

$C_{18}H_{29}NO_3$ (307.44). Source: LA JIAO *Capsicum frutescens* (fruit; mean content of 3 batch samples = 29.9%^[5508]) Ref: 6, 15, 1521, 5508.

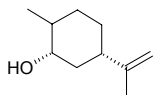


5554 Dihydrocarpalosinin

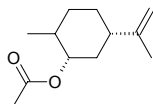
$C_{22}H_{30}O_8$ (422.48). mp 258~265°C. Source: ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. Ref: 4067.

**5555 Dihydrocarveol**

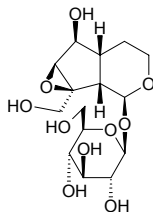
$C_{10}H_{18}O$ (154.25). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**5556 Dihydrocarveol acetate**

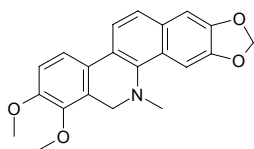
$C_{12}H_{20}O_2$ (196.29). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**5557 Dihydrocatalpol**

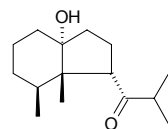
$C_{15}H_{24}O_{10}$ (364.35). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**5558 Dihydrochelerythrine**

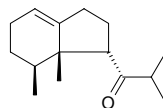
[6880-91-7] $C_{21}H_{19}NO_4$ (349.39). mp 160~165°C. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**5559 11,12-Dihydrochiloscypholone**

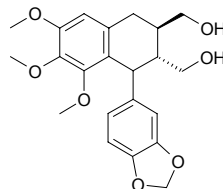
(+)-(1*S*,3*aR*,7*S*,7*aS*)-2,3,3*a*,4,5,6,7,7*a*-Octahydro-3*a*-hydroxyl-7,7*a*-dimethyl-1-(2-methylpropanonyl)-1*H*-indene $C_{15}H_{26}O_2$ (238.37). Colorless oil. Source: DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). Ref: 5209.

**5560 11,12-Dihydrochiloscyphone**

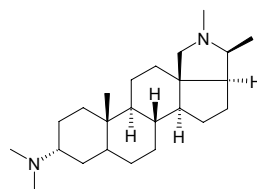
(+)-(1*S*,7*S*,7*aS*)-2,3,5,6,7,7*a*-Hexahydro-7,7*a*-dimethyl-1-(2-methylpropanonyl)-1*H*-indene $C_{15}H_{24}O$ (220.36). Colorless oil. Source: DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil). Ref: 5209.

**5561 (-)-Dihydroclusin**

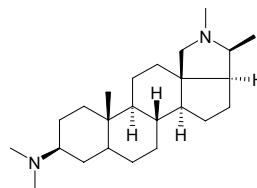
$C_{22}H_{26}O_7$ (402.45). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC_{50} = 0.8 μ mol/L; CYP2D6, IC_{50} > 100 μ mol/L; control Ketoconazole, CYP3A4, IC_{50} = 0.72 μ mol/L; control Quinidine, CYP2D6, IC_{50} = 0.082 μ mol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00017%dw). Ref: 4797.

**5562 Dihydroconcuressine**

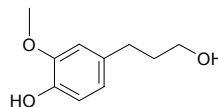
$C_{24}H_{42}N_2$ (358.62). mp 93~94°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**5563 Dihydroconessine**

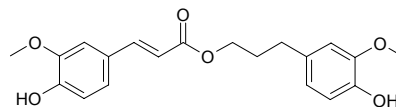
$C_{24}H_{42}N_2$ (358.62). mp 190~191°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**5564 Dihydroconiferyl alcohol**

4-Hydroxy-3-methoxyphenylpropanol [2305-13-7] $C_{10}H_{14}O_3$ (182.22). Pharm: Lettuce cotyledon factor. Source: WO JU *Lactuca sativa*, YI ZHU QIAN MA *Urtica dioica*. Ref: 658, 660.

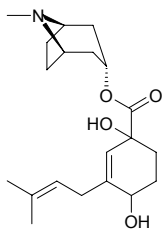
**5565 Dihydroconiferyl ferulate**

$C_{20}H_{22}O_6$ (358.39). Pale yellow semi-solid. Source: LUO TUO HAO *Peganum nigellastrum* (aerial parts). Ref: 3945.

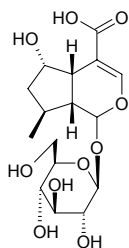


5566 4'-Dihydroconsabatine

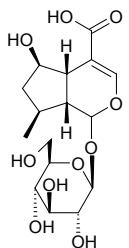
$C_{20}H_{31}NO_4$ (349.47). Oil. Source: *Convolvulus sabatius* ssp. *sabatius* (ground root and rhizome). Ref: 5292.

**5567 6 α -Dihydrocornic acid**

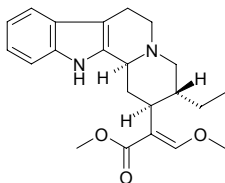
$C_{16}H_{24}O_{10}$ (376.36). Yellow amorphous powder, $[\alpha]_D^{28} = -67.9^\circ$ ($c = 1.34$, MeOH). Source: JI SU ZI *Cornus capitata* [Syn. *Dendrobenthamia capitata*] (root). Ref: 5177.

**5568 6 β -Dihydrocornic acid**

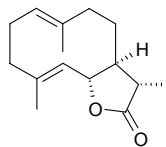
$C_{16}H_{24}O_{10}$ (376.36). Yellow amorphous powder, $[\alpha]_D^{28} = -271.6^\circ$ ($c = 0.18$, MeOH). Source: JI SU ZI *Cornus capitata* [Syn. *Dendrobenthamia capitata*] (root). Ref: 5177.

**5569 Dihydrocorynantheine**

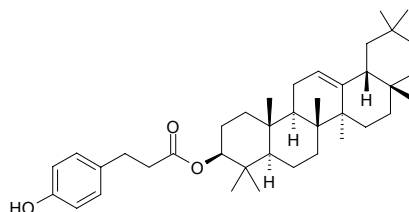
$C_{22}H_{28}N_2O_3$ (368.48). Pharm: CVS activity (tested in both conscious and anaesthetized normotensive rats, arterial pressure in both types of rats fell substantially, while heart rate of only anaesthetized rats also decreased). Source: CHANG HUA GOU TENG *Uncaria longiflora*, DUO MAI GOU TENG *Uncaria nervosa*, FEI ZHOU GOU TENG *Uncaria africana*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HOU YE GOU TENG *Uncaria callophylla*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*, XIN XING GOU TENG *Uncaria cordata*. Ref: 2, 5341.

**5570 11 β ,13-Dihydrocostunolide**

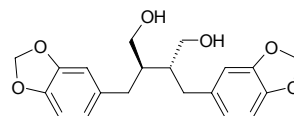
$C_{15}H_{22}O_2$ (234.34). Pharm: Cytotoxic (*in vitro*, HepG₂, $CD_{50} = 75\mu\text{g/mL}$; HeLa, $CD_{50} = 85\mu\text{g/mL}$; OVCAR-3, $CD_{50} = 75\mu\text{g/mL}$; control Cisplatin, HepG₂, $CD_{50} = 2.8\mu\text{g/mL}$; HeLa, $CD_{50} = 5.2\mu\text{g/mL}$; OVCAR-3, $CD_{50} = 3\mu\text{g/mL}$). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.024%dw). Ref: 4720.

**5571 3-O-Dihydrocoumaroyl- β -amyrin**

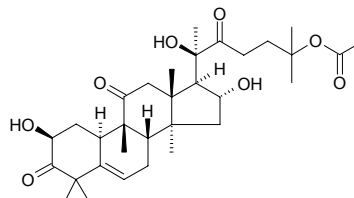
$C_{39}H_{58}O_3$ (574.90). Oil, $[\alpha]_D^{25.9} = +49.5^\circ$ ($c = 0.65$, CHCl_3). Source: MU MA HUANG *Casuarina equisetifolia*. Ref: 2300.

**5572 Dihydrocubebin**

(-)-Dihydrocubebin [24563-03-9] $C_{20}H_{22}O_6$ (358.39). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 9.5\mu\text{mol/L}$; CYP2D6, $IC_{50} = 17.5\mu\text{mol/L}$; control Ketoconazole, CYP3A4, $IC_{50} = 0.72\mu\text{mol/L}$; control Quinidine, CYP2D6, $IC_{50} = 0.082\mu\text{mol/L}$)^[4797]; antibacterial (*Mycobacterium smegmatis*). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.001%dw)^[4797], JI NEI YA HU JIAO *Piper guineense*. Ref: 658, 4797.

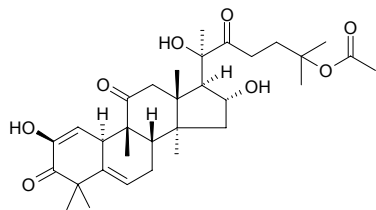
**5573 Dihydrocucurbitacin B**

23,24-Dihydrocucurbitacin B $C_{32}H_{48}O_8$ (560.73). Pharm: Cytotoxic (hmn cancer lines NUGC-3, $IC_{50} = 3.26\mu\text{g/mL}$, hmn cancer lines HONE-1, $IC_{50} = 1.55\mu\text{g/mL}$)^[4267]; anti-inflammatory (carrageenan-induced mouse paw edema, 4mg/kg, InRt = 46% at 3h and InRt = 36% at 5h)^[4970]. Source: TA YOU XIE GUA *Cayaponia tayuya* (root), NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267, 4970.

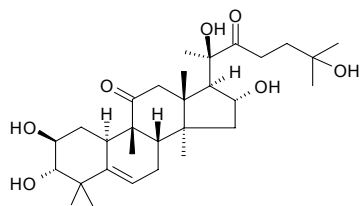


5574 Dihydrocurbitacin E

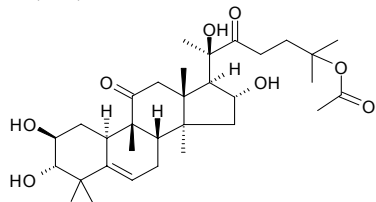
$C_{32}H_{46}O_8$ (558.72). **Pharm:** Cytotoxic (hmn cancer lines NUGC-3, IC_{50} = 8.60 $\mu\text{g}/\text{mL}$, hmn cancer lines HONE-1, IC_{50} = 2.68 $\mu\text{g}/\text{mL}$). **Source:** NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). **Ref:** 4267.

**5575 Dihydrocurbitacin F**

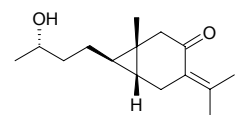
$C_{30}H_{48}O_7$ (520.71). mp 155~157°C. **Source:** DA ZI XUE DAN *Hemsleya macrosperma*, LUO GUO DI *Hemsleya amabilis*, PENG XIAN XUE DAN *Hemsleya pengxianensis*. **Ref:** 6, 554, 660, 1521.

**5576 Dihydrocurbitacin F-25-acetate**

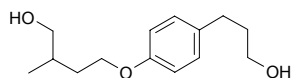
$C_{32}H_{50}O_8$ (562.75). mp 266~268°C. **Source:** CHANG GUO XUE DAN *Hemsleya dolichocarpa* (tuberoid: mean content collected in Aug. to Nov. = 3.46%^[5508]), DA ZI XUE DAN *Hemsleya macrosperma*, LUO GUO DI *Hemsleya amabilis*, PENG XIAN XUE DAN *Hemsleya pengxianensis*. **Ref:** 6, 554, 660, 5508.

**5577 4S-Dihydrocurcumenone**

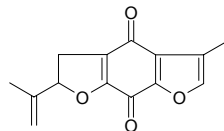
$C_{15}H_{24}O_2$ (236.36). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 $\mu\text{mol}/\text{L}$, InRt = (13.0±2.0)%, control L-NMMA, 100 $\mu\text{mol}/\text{L}$, InRt = (79.2±0.9)%, $p < 0.01$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**5578 Dihydrocupidiol**

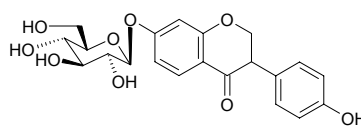
$C_{14}H_{22}O_3$ (238.33). Colorless oil, $[\alpha]_D^{23} = -11^\circ$ ($c = 0.1$, CHCl_3). **Pharm:** Antifungal (TLC-based assay, *Cladosporium cucumerinum*, MIQ = 0.01 μg ; control Miconazole, MIQ = 1 μg). **Source:** *Fagara xanthoxyloides*. **Ref:** 5385.

**5579 Dihydrocypaquinone**

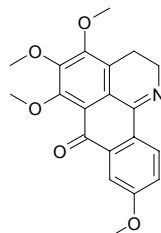
[41555-17-3] $C_{14}H_{12}O_4$ (244.25). mp 113~114°C. **Source:** PIAO FU CAO *Fimbristylis dichotoma*. **Ref:** 6.

**5580 Dihydrodaidzin**

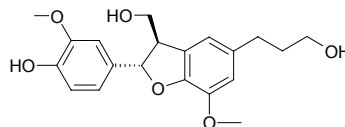
(-)-Dihydrodaidzin; 7-*O*- β -D-Glucopyranosyl-4'-hydroxyisoflavanone $C_{21}H_{22}O_9$ (418.4). Yellow amorphous powder, $[\alpha]_D^{25} = -12.9^\circ$ ($c = 1.00$, MeOH). **Pharm:** Cytotoxic (*in vitro*, Hs740T, ED_{50} = 17.37 $\mu\text{g}/\text{mL}$; Hs756T, ED_{50} = 14.92 $\mu\text{g}/\text{mL}$; Hs578T, ED_{50} = 28.23 $\mu\text{g}/\text{mL}$; Hs742T, ED_{50} = 33.57 $\mu\text{g}/\text{mL}$; DU145, ED_{50} = 9.16 $\mu\text{g}/\text{mL}$; LNCaP-FGC, ED_{50} = 32.45 $\mu\text{g}/\text{mL}$). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0080%dw). **Ref:** 4630.

**5581 2,3-Dihydroauriporphine**

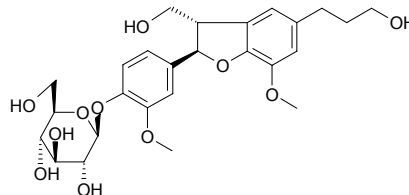
$C_{20}H_{19}NO_5$ (353.38). mp 141.0~142.0°C. **Source:** BIAN FU GE GEN *Menispermum dauricum*. **Ref:** 2402.

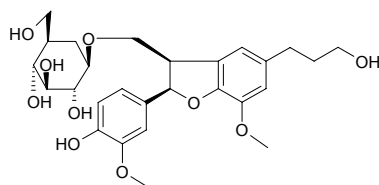
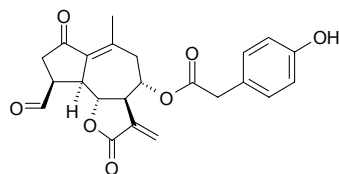
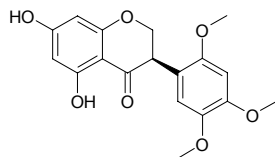
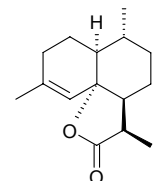
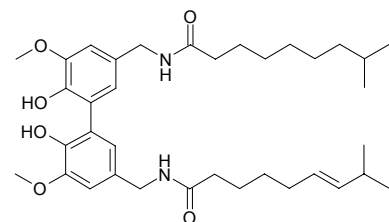
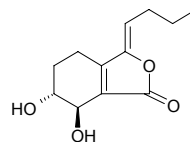
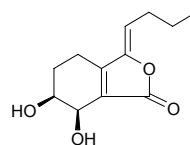
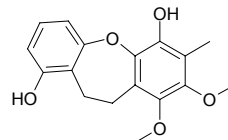
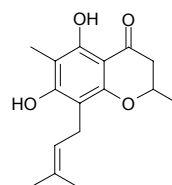
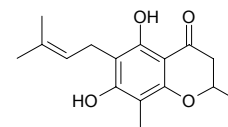
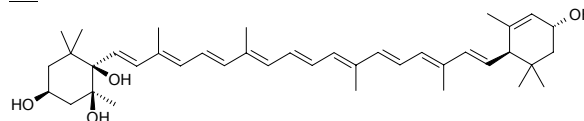
**5582 Dihydrodehydrodiconiferyl alcohol**

2 α ,3 β -7-*O*-Methylcedrusin $C_{20}H_{24}O_6$ (360.41). $[\alpha]_D^{20} = +0.0^\circ$ ($c = 0.10$, MeOH). **Source:** HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.0012%), YUE NAN LIE LAN *Bursera tonkinensis* (root). **Ref:** 4791, 5336.

**5583 Dihydrodehydrodiconiferyl alcohol 4'-*O*- β -D-glucoside**

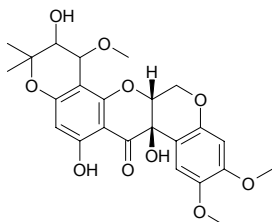
(2*R*,3*S*)-2,3-Dihydro-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-7-methoxy-5-benzofuranpropanol 4'-*O*- β -D-glucopyranoside $C_{26}H_{34}O_{11}$ (522.55). Amorphous powder, $[\alpha]_D^{26} = -15.0^\circ$ ($c = 0.20$, MeOH); $[\alpha]_D^{25} = -20.7^\circ$ ($c = 0.10$, MeOH). **Source:** LAN SHAI PIAO *Sambucus sieboldiana* (leaf), SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535, 4192.



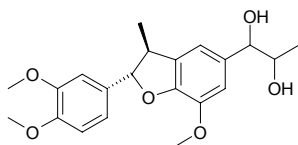
5584 Dihydrodehydrodiconiferyl alcohol 9'-O-glucosideC₂₇H₃₆O₁₀ (520.58). Colorless crystals, $[\alpha]_D^{25} = -15.5^\circ$ ($c = 2.0$, MeOH).Source: RI BEN AN XI XIANG JING PI *Styrax japonica*. Ref: 2546.**5585 3,4β-Dihydro-15-dehydrolactucopicrin**C₂₃H₂₂O₇ (410.43). Source: JU QU *Cichorium intybus*. Ref: 736.**5586 (R)-2,3-Dihydro-7-demethylrobustigenin**(R)-5,7-Dihydroxy-2',4',5'-trimethoxyisoflavanone C₁₈H₁₈O₇ (346.34).Amorphous powder, $[\alpha]_D = -28^\circ$ ($c = 0.1$, MeOH). Source: *Erythrina saclauxii* (stem cortex). Ref: 5097.**5587 Dihydro-deoxyarteannuin B**C₁₅H₂₂O₂ (234.34). Oil. Source: HUANG HUA HAO *Artemisia annua* (aerial parts). Ref: 5224.**5588 6'',7''-Dihydro-5',5'''-dicapsaicin**C₃₆H₅₄N₂O₆ (610.84). Light yellow oil. Pharm: Antioxidant(ADP/Fe²⁺-induced liposomal lipid peroxidation, IC₅₀ = 10 μmol/L; control Capsaicin, IC₅₀ = 10 μmol/L; Vitamin E, IC₅₀ = 250 μmol/L)^[4710]. Source:HONG HAI JIAO *Capsicum annuum* (fruit: yield = 0.00024%). Ref: 4710.**5589 (Z)-4,5-Dihydro-6,7-trans-dihydroxy-3-butylidene phthalide**C₁₂H₁₆O₄ (224.26). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.**5590 (Z)-4,5-Dihydro-6,7-cis-dihydroxy-3-butylidene phthalide**Senkyunolide I [94596-28-8] C₁₂H₁₆O₄ (224.26). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], GAO BEN *Ligusticum sinense*. Ref: 2, 660.**5591 5,6-Dihydro-1,7-dihydroxy-3,4-dimethoxy-2-methylbenz[b,f]oxepin**C₁₇H₁₈O₅ (302.33). Colorless crystalline solid (CHCl₃), mp 215–217°CSource: CAI BAN YANG TI JIA *Bauhinia variegata* (root cortex). Ref: 3468.**5592 2,3-Dihydro-5,7-dihydroxy-2,6-dimethyl-8-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one**C₁₆H₂₀O₄ (276.34). Pale-yellow acicular crystals, mp 122–124°C, $[\alpha]_D^{25} = -92.8^\circ$ ($c = 0.13$, CHCl₃). Source: BAI BEI YE *Mallotus apelta*. Ref: 755.**5593 2,3-Dihydro-5,7-dihydroxy-2,8-dimethyl-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one**C₁₆H₂₀O₄ (276.34). Pale-yellow acicular crystals, mp 160–162°C, $[\alpha]_D^{25} = -45.4^\circ$ ($c = 0.11$, CHCl₃). Source: BAI BEI YE *Mallotus apelta*. Ref: 755.**5594 (3S,5S,6R,3'R,6'R)-5,6-Dihydro-5,6-dihydroxylutein**C₄₀H₅₈O₄ (602.91). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

5595 4',5'-Dihydro-11,5'-dihydroxy-4'-methoxytephrosin

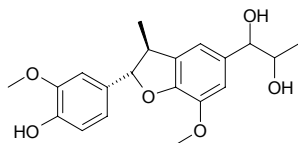
$C_{24}H_{26}O_{10}$ (474.47). Colorless solid, $[\alpha]_D^{20} = +1.7^\circ$ ($c = 0.1$, acetone). **Pharm:** Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, $IC_{50} = 9.1 \mu\text{mol/L}$; control Sulforaphane, $IC_{50} = 11 \mu\text{mol/L}$). **Source:** DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00016%dw). **Ref:** 4718.

**5596 (2S,3S,1'S,2'R)-and(2S,3S,1'R,2'R)-2,3-Dihydro-5-(1',2'-dihydroxypropyl)-2-(3,4-dimethoxyphenyl)-7-methoxy-3-methylbenzofuran**

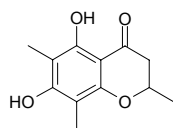
$C_{21}H_{26}O_6$ (374.44). Yellow oil, $[\alpha]_D^{25} = +3.5^\circ$ ($c = 1.036$, CHCl_3). **Source:** DUAN ROU MAO MA DOU LING *Aristolochia pubescens*. **Ref:** 2359.

**5597 (2S,3S,1'S,2'R)-and(2S,3S,1'R,2'R)-2,3-Dihydro-5-(1',2'-dihydroxypropyl)-2-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-methylbenzofuran**

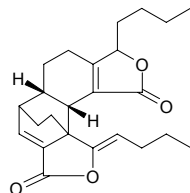
$C_{20}H_{24}O_6$ (360.41). Yellow oil, $[\alpha]_D^{25} = +3.6^\circ$ ($c = 1.024$, CHCl_3). **Source:** DUAN ROU MAO MA DOU LING *Aristolochia pubescens*. **Ref:** 2359.

**5598 2,3-Dihydro-5,7-dihydroxy-2,6,8-trimethyl-4H-1-benzopyran-4-one**

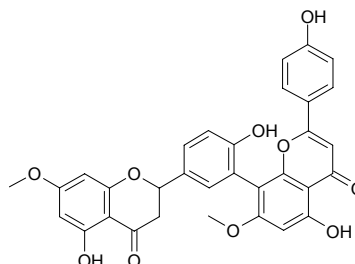
$C_{12}H_{14}O_4$ (222.24). Pale-yellow acicular crystals, mp 200–202°C, $[\alpha]_D^{25} = -44.1^\circ$ ($c = 0.14$, CHCl_3). **Source:** BAI BEI YE *Mallotus apelta*. **Ref:** 755.

**5599 (Z)-3,8-Dihydro-6,6';7,3'-a-diligustilide**

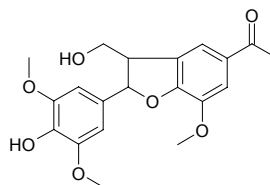
[106533-38-4] $C_{24}H_{30}O_4$ (382.50). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

**5600 2,3-Dihydro-7,7''-dimethoxyamentoflavone**

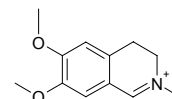
$C_{32}H_{24}O_{10}$ (568.54). Yellow powder, mp > 290°C, $[\alpha]_D^{24.5} = +5.10^\circ$ ($c = 0.29$, $\text{C}_5\text{H}_5\text{N}$). **Source:** YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (leaf and twig: yield = 0.00178%dw). **Ref:** 4707.

**5601 (2R,3S)-Dihydro-2-(3',5'-dimethoxy-4'-hydroxyphenyl)-7-methoxy-5-acetyl-benzofuran**

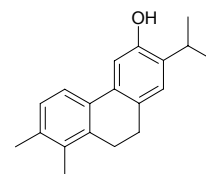
$C_{20}H_{22}O_7$ (374.39). Yellowish resin, $[\alpha]_D^{25} = -9.6^\circ$ ($c = 1.80$, MeOH). **Source:** JUAN BAI *Selaginella tamariscina* (whole herb). **Ref:** 4828.

**5602 3,4-Dihydro-6,7-dimethoxy-2-methyl-isoquinoline**

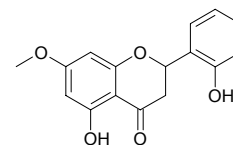
$C_{12}H_{16}NO_2^+$ (206.27). Colorless crystalline, mp 184.5–187.5°C. **Source:** XIAO HUA MU BAN SHU *Xylopiia parviflora* (bark and root). **Ref:** 3794.

**5603 9,10-Dihydro-7,8-dimethyl-2-(1-methylethyl)phenanthren-3-ol**

$C_{19}H_{22}O$ (266.39). Yellowish gum. **Source:** XIU QIU SHU WEI CAO *Salvia hydrangea* (root). **Ref:** 5447.

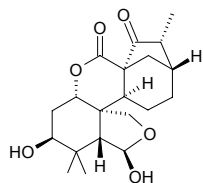
**5604 Dihydroechioidinin**

$C_{16}H_{14}O_5$ (286.29). Colorless needles (CHCl_3), mp 200–201°C, $[\alpha]_D^{28} = -19.7^\circ$ ($c = 0.13$, MeOH). **Source:** LAN JI CHUAN XIN LIAN *Andrographis echioides*. **Ref:** 2379.

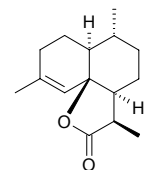


5605 Dihydroenmein

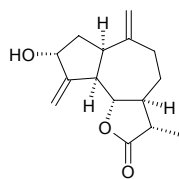
$C_{20}H_{28}O_6$ (364.44). mp 282 (dec), 240–242°C, $[\alpha]_D = -114^\circ$ (C_5H_5N). Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**5606 Dihydro-epi-deoxyarteannuin B**

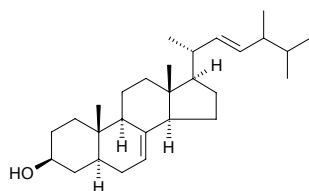
$C_{15}H_{22}O_2$ (234.34). Source: HUANG HUA HAO *Artemisia annua* (aerial parts). Ref: 5224.

**5607 11β,13-Dihydro-3-epizaluzanin C**

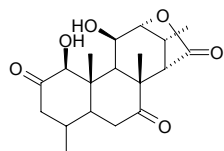
$C_{15}H_{20}O_3$ (248.32). Pharm: Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 75 μg/mL; HeLa, CD₅₀ = 65 μg/mL; OVCAR-3, CD₅₀ = 65 μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μg/mL; HeLa, CD₅₀ = 5.2 μg/mL; OVCAR-3, CD₅₀ = 3 μg/mL). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.00034%dw). Ref: 4720.

**5608 5,6-Dihydroergosterol**

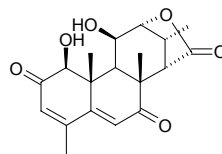
Ergosta-7,22-dien-3β-ol $C_{28}H_{46}O$ (398.68). mp 176–177°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.00075%). Ref: 6, 4603.

**5609 3,4-Dihydroeurycomalactone**

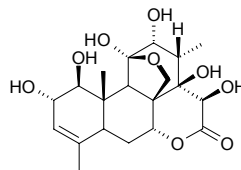
$C_{19}H_{26}O_6$ (350.42). Source: *Eurycoma* sp. Ref: 4556.

**5610 5,6-Dihydroeurycomalactone**

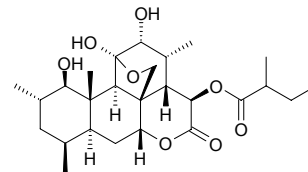
$C_{19}H_{22}O_6$ (346.38). Source: *Eurycoma* sp. Ref: 4556.

**5611 13β,18-Dihydroeurycomanol**

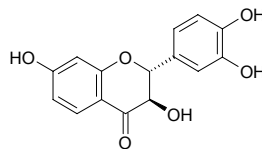
$C_{20}H_{28}O_9$ (412.44). Source: *Eurycoma* sp. Ref: 4556.

**5612 3,4-Dihydro-excelsin**

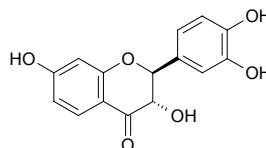
$C_{26}H_{40}O_8$ (480.60). Source: GAO CHU *Ailanthus excelsa*. Ref: 2051.

**5613 (+)Dihydrofisetin**

(+)-Fustin [20725-03-5] $C_{15}H_{12}O_6$ (288.26). White needles (MeOH), mp 228–229°C, $[\alpha]_D^{25} = +28.3^\circ$ ($c = 0.9$, 50% acetoc). Pharm: Antibacterial (*Pseudomonas maltophilia*, *Enterobacter cloacae*); antiviral (HSV-1); NADH oxidase inhibitor; succinic oxidase inhibitor; anti-rheumatoid arthritis (oral administration 30mg/kg, significantly decreased rheumatoid arthritis (RA) and C-reactive protein (CRP) factors in Freund's complete adjuvant)^[5460]. Source: JI CAI *Capsella bursa-pastoris*, HUANG LIAN YA *Pistacia chinensis*, LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], QI ZI *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], YE QI SHU YE *Rhus sylvestris*, *Rhus* sp., *Schinopsis* sp., *Platanus* sp., *Tilia* sp. Ref: 6, 658, 5460

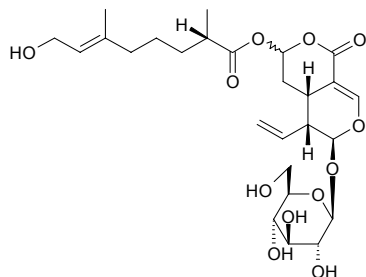
**5614 (–)Dihydrofisetin**

(–)-Fustin $C_{15}H_{12}O_6$ (288.26). mp 228°C. Source: HUANG LIAN YA *Pistacia chinensis*, LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], JI CAI *Capsella bursa-pastoris*, YE QI SHU YE *Rhus sylvestris*. Ref: 6.

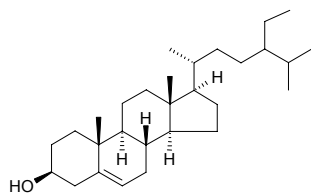


5615 Dihydrofoliamenthin

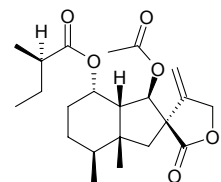
[22314-48-3] C₂₆H₃₈O₁₂ (542.59). Source: SHUI CAI *Menyanthes trifoliata*, SHUI CAI GEN *Menyanthes trifoliata*. Ref: 6.

**5616 β-Dihydrofucosterol**

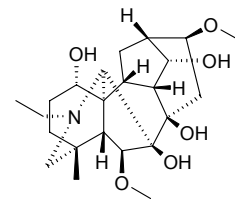
C₂₉H₅₀O (414.72). Source: ZE QI *Euphorbia helioscopia*. Ref: 6.

**5617 Dihydrofukinolide**

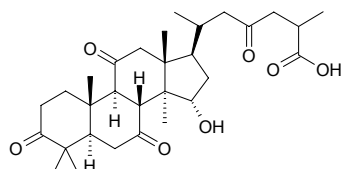
[41059-95-4] C₂₂H₃₂O₆ (392.50). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**5618 Dihydrogadesine**

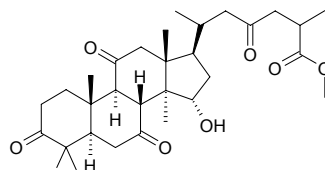
C₂₃H₃₇NO₆ (423.55). White amorphous powder. Source: QIN LING CUI QUE HUA *Delphinium giraldii*. Ref: 2506.

**5619 8β,9α-Dihydroganoderic acid J**

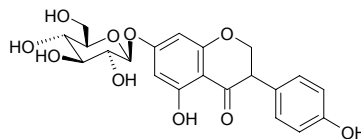
C₃₀H₄₄O₇ (516.68). Colorless prisms (MeOH-H₂O), mp 205–208°C, [α]_D²⁵ = +24° (c = 0.04, MeOH). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0005%). Ref: 4603.

**5620 8β,9α-Dihydroganoderic acid J methyl ester**

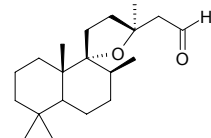
C₃₁H₄₆O₇ (530.71). Colorless prisms (MeOH-H₂O), mp 202–205°C, [α]_D²⁵ = +52° (c = 0.22, MeOH). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0003%). Ref: 4603.

**5621 Dihydrogenistin**

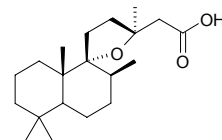
(-)-Dihydrogenistin; 7-*O*-β-*D*-Glucopyranosyl-5,7,4'-trihydroxyisoflavanone C₂₁H₂₂O₁₀ (434.4). Yellow amorphous powder, [α]_D²⁵ = -23.7° (c = 0.50, MeOH). Pharm: Cytotoxic (*in vitro*, Hs740T, ED₅₀ = 15.12 μg/mL; Hs756T, ED₅₀ = 12.24 μg/mL; Hs578T, ED₅₀ = 15.36 μg/mL; Hs742T, ED₅₀ = 30.8 μg/mL; DU145, ED₅₀ = 10.25 μg/mL; LNCaP-FGC, ED₅₀ = 41.58 μg/mL). Source: DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.013% dw). Ref: 4630.

**5622 Dihydrogrindelaldehyde**

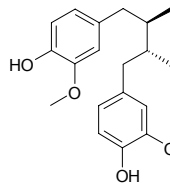
C₂₀H₃₄O₂ (306.49). Colorless gum. Pharm: Cytotoxic (MCF7, ED₅₀ = 3.5 μg/mL). Source: *Colophospermum mopane* (bark and seed). Ref: 5147.

**5623 Dihydrogrindelic acid**

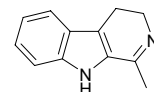
C₂₀H₃₄O₃ (322.49). Colorless gum. Source: *Colophospermum mopane* (bark and seed). Ref: 5147.

**5624 (-)-Dihydroguaiaretic acid**

C₂₀H₂₆O₄ (330.43). Source: MEI ZHOU SAN BAI CAO *Saururus cernuus*. Ref: 3959.

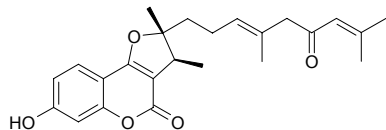
**5625 Dihydroharman**

[525-41-7] C₁₂H₁₂N₂ (184.24). Source: SHA ZAO SHU PI *Elaeagnus angustifolia*. Ref: 6.



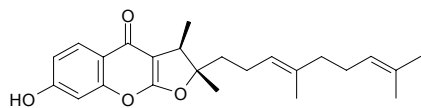
5626 2,3-Dihydro-7-hydroxy-2*S,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadien-6-onyl]-furo[3,2-*c*]coumarin**

C₂₄H₂₈O₅ (396.49). Oil, [α]_D²¹ = 0° (*c* = 0.7, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.



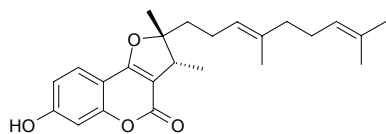
5627 2,3-Dihydro-7-hydroxy-2*S,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[2,3-*b*]chromone**

C₂₄H₃₀O₄ (382.50). Colorless oil, [α]_D²² = 0° (*c* = 0.2, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root; yield = 0.05%). Ref: 4193.



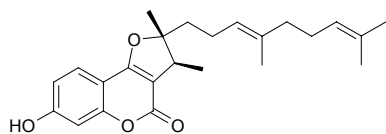
5628 2,3-Dihydro-7-hydroxy-2*R,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[3,2-*c*]coumarin**

C₂₄H₃₀O₄ (382.50). Oil, [α]_D²² = 0° (*c* = 0.8, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.



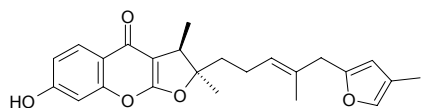
5629 2,3-Dihydro-7-hydroxy-2*S,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[3,2-*c*]coumarin**

C₂₄H₃₀O₄ (382.50). Oil, [α]_D²³ = 0° (*c* = 0.6, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.



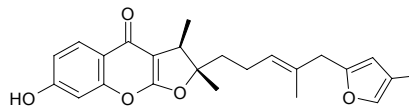
5630 2,3-Dihydro-7-hydroxy-2*R,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*),7-pentenyl]-furo[2,3-*b*]chromone**

C₂₄H₂₆O₅ (394.47). Colorless oil, [α]_D²² = 0° (*c* = 0.7, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root; yield = 0.02%). Ref: 4193.



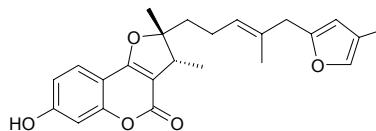
5631 2,3-Dihydro-7-hydroxy-2*S,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*),7-pentenyl]-furo[2,3-*b*]chromone**

C₂₄H₂₆O₅ (394.47). Colorless oil, [α]_D²² = 0° (*c* = 0.7, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root; yield = 0.06%). Ref: 4193.



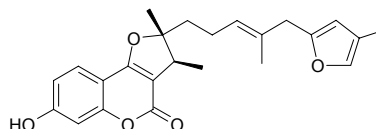
5632 2,3-Dihydro-7-hydroxy-2*R,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-pentenyl]-furo[3,2-*c*]coumarin**

C₂₄H₂₆O₅ (394.47). Oil, [α]_D²³ = 0° (*c* = 0.7, CHCl₃). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.



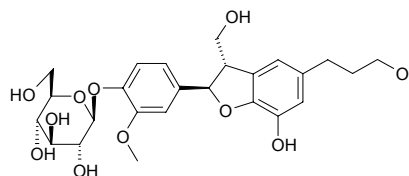
5633 2,3-Dihydro-7-hydroxy-2*S,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-pentenyl]-furo[3,2-*c*]coumarin**

C₂₄H₂₆O₅ (394.47). Oil, [α]_D²³ = 0° (*c* = 0.6, CHCl₃). Pharm: NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN-γ, IC₅₀ = (87.5±11.7)μmol/L)^[2574]; cytotoxic inactive (MTT assay, 3~100μmol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN-γ treatment for 24h.)^[2574]. Source: DUO SAN A WEI *Ferula ferulaeoides* (root), FU KANG A WEI GEN *Ferula fukanensis*. Ref: 2574, 4117.



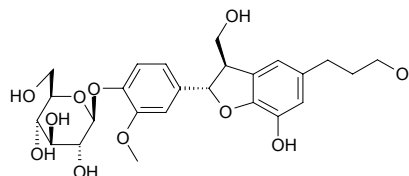
5634 (2*R*,3*S*)-2,3-Dihydro-7-hydroxy-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-5-benzofuranpropanol 4'-*O*-β-*D*-glucopyranoside

C₂₅H₃₂O₁₁ (508.53). Amorphous powder, [α]_D²⁶ = -20.0° (*c* = 0.05, MeOH). Source: LAN SHAI PIAO *Sambucus sieboldiana* (leaf). Ref: 4192.



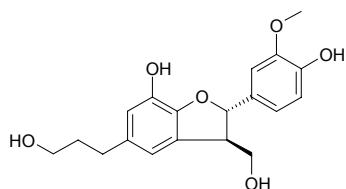
5635 (2*S*,3*R*)-2,3-Dihydro-7-hydroxy-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-5-benzofuranpropanol 4'-*O*-β-*D*-glucopyranoside

C₂₅H₃₂O₁₁ (508.53). Amorphous powder, [α]_D²⁶ = -35.7° (*c* = 0.14, MeOH). Source: LAN SHAI PIAO *Sambucus sieboldiana* (leaf). Ref: 4192.



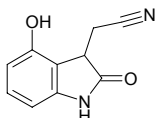
5636 (7S,8R)-Dihydro-3'-hydroxy-8-hydroxy-methyl-7-(4-hydroxy-3-methoxyphenyl)-1'-benzofuranpropanol

C₁₉H₂₂O₆ (346.38). Yellowish oil, $[\alpha]_D^{20} = -5.3^\circ$ ($c = 1.0$, MeOH). Source: TAN XIANG *Santalum album* (heartwood). Ref: 4468.



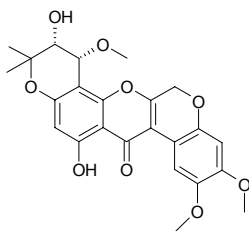
5637 2,3-Dihydro-4-hydroxy-2-indole-3-acetonitrile

C₁₀H₈N₂O₂ (188.19). Orange yellow crystals, mp 150~152°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 855.



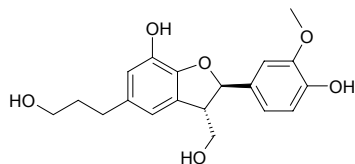
5638 4,5-Dihydro-5'-α-hydroxy-4'-α-methoxy-6α,12α-dehydro-α-toxicarol

C₂₄H₂₄O₉ (456.45). Yellow needles, mp 215~218°C, $[\alpha]_D^{20} = +0.1^\circ$ ($c = 0.1$, CHCl₃:MeOH = 1:1). Source: SAN LIE XUE TONG *Macaranga triloba* (leaf). Ref: 3756.



5639 (2R-trans)-2,3-Dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-hydroxy-5-benzofuran-propanol

C₁₉H₂₂O₆ (346.38). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt = (10~30)%, 100 μmol/L, StRt = (31~60)%, 1 mmol/L, StRt = (10~30)%; *Raphanus sativus*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt = (31~60)%, 100 μmol/L, StRt = (10~30)%, 1 mmol/L, InRt = (10~30)%); *Allium cepa*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, StRt = (10~30)%, 1 mmol/L, InRt > 61%). Source: XI YANG JIE GU MU *Sambucus nigra*. Ref: 5217.

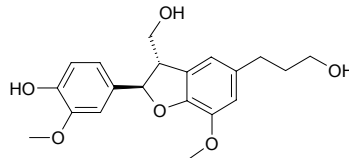


5640 (2R-trans)-2,3-Dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-methoxy-5-benzofuran-propanol

C₂₀H₂₄O₆ (360.41). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt = (31~60)%, 100 μmol/L, StRt or InRt < 10%, 1 mmol/L, InRt > 61%; *Raphanus sativus*, 1 μmol/L, StRt > 61%, 10 μmol/L, StRt = (31~60)%, 100 μmol/L, StRt = (31~60)%).

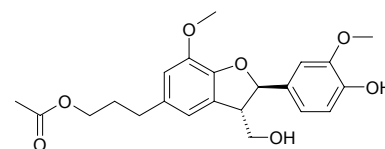
1 mmol/L, StRt = (31~60)%; *Allium cepa*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt = (10~30)%, 100 μmol/L, StRt = (10~30)%, 1 mmol/L, InRt = (31~60)%).

Source: XI YANG JIE GU MU *Sambucus nigra*. Ref: 5217.



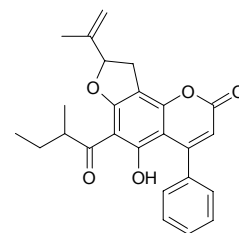
5641 (2R-trans) 2,3-Dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-methoxy-5-benzofuranpropanol acetate

C₂₂H₂₆O₇ (402.45). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt = (10~30)%, 10 μmol/L, StRt = (31~60)%, 100 μmol/L, StRt = (31~60)%, 1 mmol/L, StRt > 61%; *Raphanus sativus*, 1 μmol/L, StRt = (31~60)%, 10 μmol/L, StRt > 61%, 100 μmol/L, StRt = (10~30)%, 1 mmol/L, InRt = (10~30)%); *Allium cepa*, 1 μmol/L, StRt = (10~30)%, 10 μmol/L, StRt = (31~60)%, 100 μmol/L, StRt = (10~30)%, 1 mmol/L, StRt = (10~30)%). Source: XI YANG JIE GU MU *Sambucus nigra*. Ref: 5217.



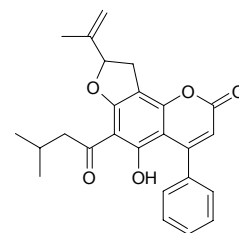
5642 8,9-Dihydro-5-hydroxy-6-(2-methylbutanoyl)-4-phenyl-8-(prop-1-en-2-yl)furo[2,3-h]chromen-2-one

C₂₅H₂₄O₅ (404.47). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



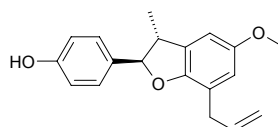
5643 8,9-Dihydro-5-hydroxy-6-(3-methylbutanoyl)-4-phenyl-8-(prop-1-en-2-yl)furo[2,3-h]chromen-2-one

C₂₅H₂₄O₅ (404.47). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



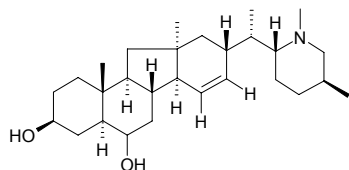
5644 (2R,3R)-2,3-Dihydro-2-(4-hydroxyphenyl)-5-methoxy-3-methyl-7-propenylbenzofuran

C₁₉H₂₀O₃ (296.37). Colorless oil, $[\alpha]_D^{25} = +358^\circ$ ($c = 1.91$, MeOH). Source: TE LI NI DA HU JIAO *Piper aequale*. Ref: 1910.

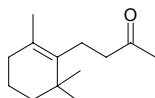


5645 Dihydroimpranine

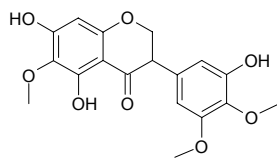
(17*R*,20*S*,22*R*)-5*α*-Impra-15,16-ene-3*β*,6*β*-diol C₂₈H₄₇NO₂ (429.69). Amorphous powder, $[\alpha]_D^{25} = -32^\circ$ ($c = 0.08$, MeOH). Source: XI BEI MU *Fritillaria imperialis*. Ref: 3372.

**5646 Dihydro- β -ionone**

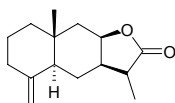
C₁₃H₂₂O (194.32). bp 126–129°C/12mmHg. Source: GUI HUA *Osmanthus fragrans*. Ref: 6.

**5647 2,3-Dihydroirigenin**

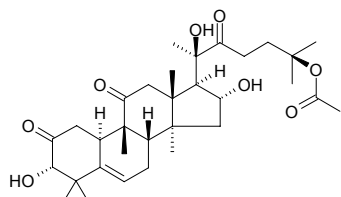
C₁₈H₁₈O₈ (362.34). Pale yellow amorphous powder, $[\alpha]_D = 0^\circ$ ($c = 0.5$, MeOH). Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.

**5648 Dihydroisoalantolactone**

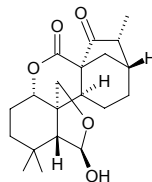
11*α*,13-Dihydroisoalantolactone C₁₅H₂₂O₂ (234.34). mp 171–172°C. Pharm: Anthelmintic (effect and toxicity similar to santonin); cytotoxic inactive (SMMC-7721 IC₅₀ = (174.5±20.2)μg/mL, Vincristine IC₅₀ = (30.35±2.23)μg/mL; HO-8910 IC₅₀ = (169.2±16.3)μg/mL, Vincristine IC₅₀ = (20.74±1.91)μg/mL; LO2 hmn hepatocytes cell IC₅₀ = (713.3±23.1)μg/mL, Vincristine IC₅₀ = (17.25±0.91)μg/mL)^[5422]. Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.001%dw)^[4736], JIN FEI CAO *Inula japonica*, TU MU XIANG *Inula helenium*. Ref: 6, 658, 1521, 4736, 5422.

**5649 Dihydroisocurbitacin B**

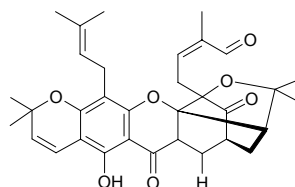
C₃₂H₄₈O₈ (560.73). Colorless acicular crystals, mp 235–237°C. Source: XIN YE CHI BO *Thladiantha cordifolia*. Ref: 425.

**5650 Dihydroisodocarpin**

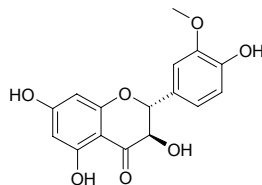
C₂₀H₂₈O₅ (348.44). mp 220–226°C. Source: ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. Ref: 4067.

**5651 Dihydroisomorellin**

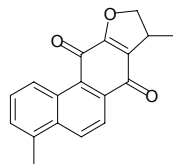
[1064-70-6] C₃₃H₃₈O₇ (546.67). mp 167°C. Source: TENG HUANG *Garcinia morella*. Ref: 6.

**5652 (+)-Dihydroisorhamnetin**

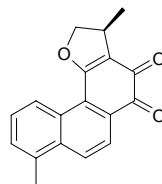
C₁₆H₁₄O₇ (318.29). Pharm: Antioxidant inactive (Takamatsu DCFH method, myelomonocytic HL-60 cells, control NDGA, IC₅₀ = (0.7±0.3)μg/mL, Vitamin C, IC₅₀ = (1.9±0.7)μg/mL, Trolox, IC₅₀ = (1.4±0.5)μg/mL)^[3850]; cytotoxic (XTT assay, HL-60 cells, IC₅₀ > 50.0μg/mL; control NDGA, IC₅₀ = (2.6±0.2)μg/mL, Vitamin C, IC₅₀ > 10.0μg/mL, Trolox, IC₅₀ > 10.0μg/mL)^[3850]. Source: SAN CHI LA RUI A *Larrea tridentata* (leaf), WU YA GUO *Dillenia indica*. Ref: 1521, 3850.

**5653 Dihydroisotanshinone I**

C₁₈H₁₄O₃ (278.31). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2.

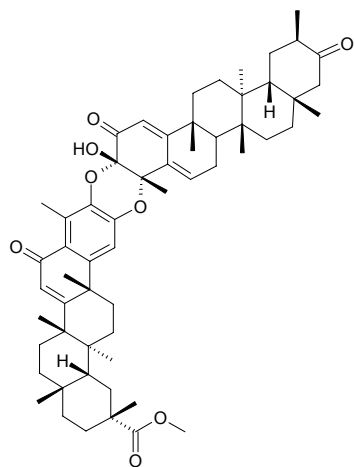
**5654 Dihydroisotanshinone II**

11,16-Oxy-18,20-dinor-1,3,5(10),6,8,11-abietahexaene-13,14-dione C₁₈H₁₄O₃ (278.31). Red crystals (MeOH), mp 247–249°C. Source: JIAO ZHI SHU WEI CAO *Salvia glutinosa* (root). Ref: 2384.

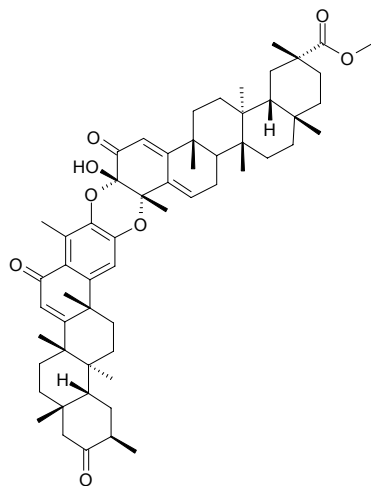


5655 7,8-Dihydroisoxuxuarine Fa

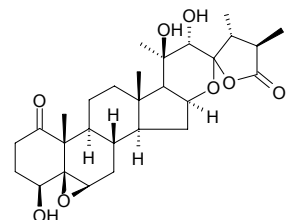
Cangorosin B C₃₈H₇₆O₈ (901.25). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

**5656 7,8-Dihydroisoxuxuarine Ga**

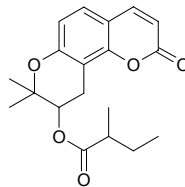
C₅₈H₇₆O₈ (901.25). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

**5657 2,3-Dihydroisoxocarplactone B**

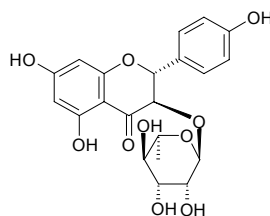
C₂₈H₄₀O₈ (504.63). White amorphous powder, mp 178~180°C, $[\alpha]_D^{20} = -93^\circ$ ($c = 0.089$, CH₃CN). Pharm: Quinone reductase inducer (mus Hepa 1c1c7 cells, CD = (3.81±1.47)μmol/L, IC₅₀ = (96.9±2.4)μmol/L, CI = 20, positive control Sulforaphane, CD = (0.36±0.17)μmol/L, IC₅₀ = (9.9±2.1)μmol/L, CI = 28). Source: FEI CHENG SUAN JIANG *Physalis philadelphica* (stem and leaf). Ref: 4337.

**5658 2',3'-Dihydro-jatamansin**

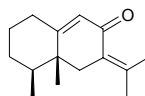
C₁₉H₂₂O₅ (330.38). Amorphous powder, $[\alpha]_D^{25} = +53.6^\circ$ ($c = 0.8$, MeOH). Source: *Niphogeton ternata*. Ref: 4156.

**5659 Dihydrokaempferol-3-O-α-L-rhamnopyranoside**

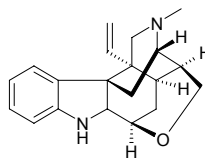
Engeletin; Engelitin [572-31-6] C₂₁H₂₂O₁₀ (434.40). Colorless massive crystals, mp 169~171°C. Pharm: Antimalarial (*Plasmodium falciparum* PoW, IC₅₀ > 50μg/mL, control Chloroquine diphosphate, IC₅₀ = (0.006±0.002)μg/mL; Dd2, IC₅₀ < 50μg/mL, Chloroquine diphosphate, IC₅₀ = (0.063±0.01)μg/mL)^[5208]. Source: BA QIA *Smilax china* [Syn. *Smilax japonica*], TU FU LING *Smilax glabra*, WU CI KE YA SHU *Andira inermis* (leaf). Ref: 714, 2192, 5208.

**5660 Dihydrokaranone**

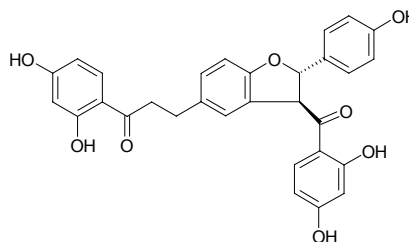
C₁₅H₂₂O (218.34). Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**5661 Dihydrokoumine**

C₂₀H₂₄N₂O (308.43). Source: GOU WEN *Gelsemium elegans*. Ref: 14.

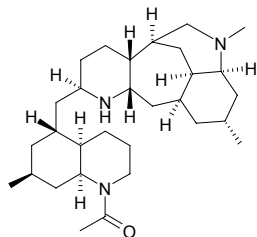
**5662 Dihydrolophirone C**

C₃₀H₂₄O₈ (512.52). Yellow crystals, mp 187~188°C (Me₂CO), $[\alpha]_D^{25} = -18^\circ$ ($c = 0.6$, Me₂CO). Source: *Ochna afzelii* (stem cortex). Ref: 5153.

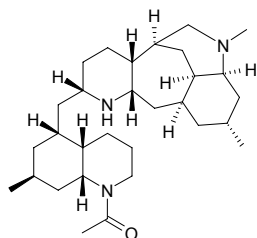


5663 Dihydro-lucidine A

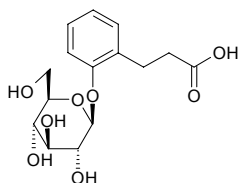
$C_{30}H_{51}N_3O$ (469.76). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**5664 Dihydro-lucidine B**

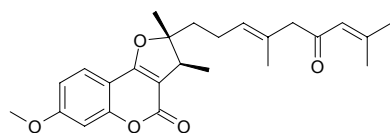
$C_{30}H_{51}N_3O$ (469.76). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**5665 Dihydromelilotoside**

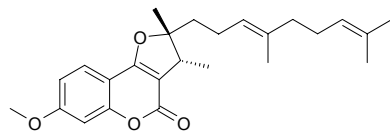
3-(2-*O*- β -D-Glucosylphenyl)propanoic acid [24696-05-7] $C_{15}H_{20}O_8$ (328.32). Colorless thin lamellar (ethyl acetate), mp 144–145°C. Pharm: Antiulcerative (rat, ip, 8 μ g/kg, inhibits 5-HT induced ulcer, InRt = 40%). Source: GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], PI HAN CAO *Melilotus suaveolens*. Ref: 6, 1155.

**5666 2,3-Dihydro-7-methoxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadien-6-onyl]-furo[3,2-*c*]coumarin**

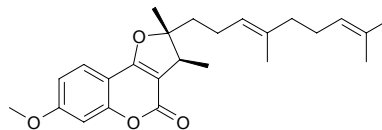
$C_{25}H_{30}O_5$ (410.51). Oil, $[\alpha]_D^{23} = 0^\circ$ ($c = 0.7$, $CHCl_3$). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.

**5667 2,3-Dihydro-7-methoxy-2*R**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadieny]-furo[3,2-*c*]coumarin**

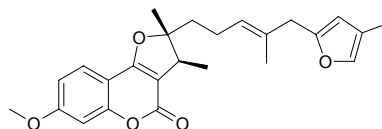
$C_{25}H_{32}O_4$ (396.53). Oil, $[\alpha]_D^{24} = 0^\circ$ ($c = 0.4$, $CHCl_3$). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.

**5668 2,3-Dihydro-7-methoxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadieny]-furo[3,2-*c*]coumarin**

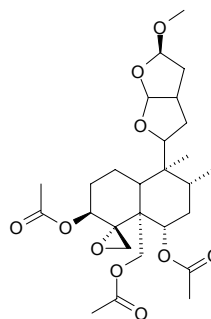
$C_{25}H_{32}O_4$ (396.53). Oil, $[\alpha]_D^{24} = 0^\circ$ ($c = 0.5$, $CHCl_3$). Source: DUO SAN A WEI *Ferula ferulaeoides* (root). Ref: 4117.

**5669 2,3-Dihydro-7-methoxy-2*S**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-penteny]-furo[3,2-*c*]coumarin**

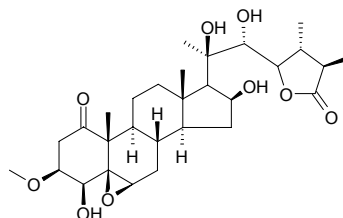
$C_{25}H_{28}O_5$ (408.50). Oil, $[\alpha]_D^{23} = 0^\circ$ ($c = 0.6$, $CHCl_3$). Pharm: NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN- γ , $IC_{50} = (27.8 \pm 4.6) \mu\text{mol/L}$)^[2574]; inhibits the inducible nitric oxide synthase (iNOS) gene expression (LPS/IFN- γ treatment increased the level of iNOS mRNA expression, and the compound inhibits this increase, dose-dependent manner)^[2574]; cytotoxic inactive (MTT assay, 3–100 μ mol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN- γ treatment for 24h.)^[2574]. Source: DUO SAN A WEI *Ferula ferulaeoides* (root), FU KANG A WEI GEN *Ferula fukanensis*. Ref: 2574, 4117.

**5670 14,15-Dihydro-15 β -methoxy-3-epicaryoptin**

$C_{27}H_{40}O_{10}$ (524.61). Viscous mass, $[\alpha]_D = -57.4^\circ$ ($CHCl_3$). Source: KU LANG SHU *Clerodendrum inerme* (leaf). Ref: 5261.

**5671 2,3-Dihydro-3 β -methoxyxycarpalactone A**

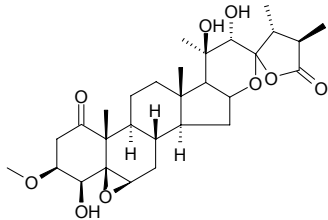
$C_{29}H_{44}O_9$ (536.67). White amorphous powder, mp 240–243°C, $[\alpha]_D^{20} = -39^\circ$ ($c = 0.088$, CH_3CN), artifact generated during the extraction and isolation procedure. Pharm: Quinone reductase inducer (mus Hepa 1c1c7 cells, CD = $(18.63 \pm 4.29) \mu\text{mol/L}$, $IC_{50} > 20 \mu\text{mol/L}$, positive control Sulforaphane, CD = $(0.36 \pm 0.17) \mu\text{mol/L}$, $IC_{50} = (9.9 \pm 2.1) \mu\text{mol/L}$, CI = 28). Source: FEI CHENG SUAN JIANG *Physalis philadelphica* (stem and leaf). Ref: 4337.



5672 2,3-Dihydro-3 β -methoxyoxycarpalactone B

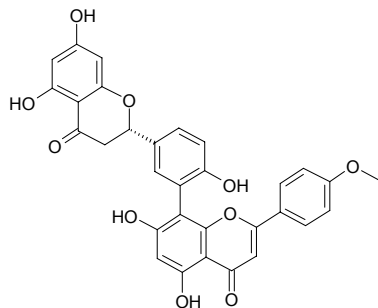
C₂₉H₄₂O₉ (534.65). White amorphous powder, mp 190–192°C, [α]_D²⁰ = –117° (*c* = 0.076, CH₃CN), artifact generated during the extraction and isolation procedure.

Pharm: Quinone reductase inducer (mus Hepa 1c1c7 cells, CD = (10.15±4.18) μ mol/L, IC₅₀ = (106.6±0.2) μ mol/L, CI = 10, positive control Sulforaphane, CD = (0.36±0.17) μ mol/L, IC₅₀ = (9.9±2.1) μ mol/L, CI = 28). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica* (stem and leaf). **Ref:** 4337.

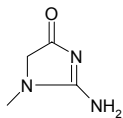
**5673 2,3-Dihydro-4'''-O-methyl amentoflavone**

C₃₁H₂₂O₁₀ (554.51). Yellow crystals, mp 231–232°C (dec), [α]_D²⁵ = –0.53° (*c* = 1.33, MeOH). **Source:** NAN YIN DU SU TIE SHU GUO *Cycas beddomei*.

Ref: 2540.

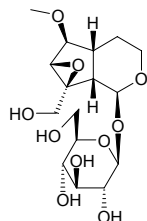
**5674 1,5-Dihydro-1-methyl-2-amino-imidazol-4-one**

C₄H₇N₃O (113.12). Yellowish crystalline powder, mp > 300°C (H₂O). **Source:** CU WEN HAI LONG *Trachyrhampus serratus*. **Ref:** 4583.

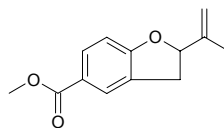
**5675 3,4-Dihydro-methylcatalpol**

C₁₆H₂₆O₁₀ (378.38). Amorphous powder, [α]_D²² = –77° (*c* = 0.3, MeOH).

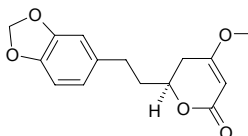
Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ = 73.0 μ g/mL, control Melarsoprol, IC₅₀ = 0.0033 μ g/mL; *Trypanosoma cruzi*, IC₅₀ > 90 μ g/mL, control Benznidazole, IC₅₀ = 0.70 μ g/mL); antileishmanial (*Leishmania donovani*, IC₅₀ = 12.7 μ g/mL, control Miltefosine, IC₅₀ = 0.32 μ g/mL); antimalarial (*Plasmodium falciparum*, IC₅₀ > 50 μ g/mL, control Artemisinin, IC₅₀ = 0.002 μ g/mL); cytotoxic (L6 cells, IC₅₀ > 90 μ g/mL, control Podophyllotoxin, IC₅₀ = 0.0075 μ g/mL). **Source:** LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). **Ref:** 5251.

**5676 (±)-2,3-Dihydro-2-(1-methylethenyl)-5-benzofurancarboxylic acid methyl ester**

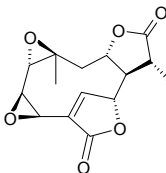
[69703-22-6] C₁₃H₁₄O₃ (218.25). **Source:** BAI HUA LONG DAN *Gentiana algida*. **Ref:** 704.

**5677 Dihyromethysticin**

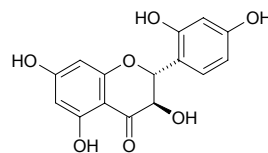
[19902-91-1] C₁₅H₁₆O₅ (276.29). **Pharm:** Antispasmodic. **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 658.

**5678 Dihyromikanolide**

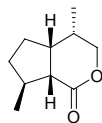
[23758-04-5] C₁₅H₁₆O₆ (292.29). **Pharm:** Antifungal (*Candida albicans*). **Source:** WEI GAN JU *Mikania scandens*. **Ref:** 658.

**5679 Dihyromorin**

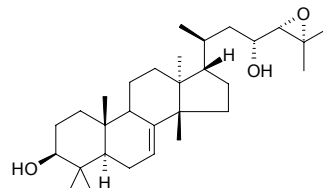
[18422-83-8] C₁₅H₁₂O₇ (304.26). mp 226–228°C. **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor, IC₅₀ = 20.4 μ g/mL); cytotoxic (mouse mammary organ culture assay, 82% at 10 μ g/mL). **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*, SANG ZHI *Morus alba*. **Ref:** 6, 5038.

**5680 Dihydronepetalactone**

[17672-81-0] C₁₀H₁₆O₂ (168.24). **Source:** JIA JING JIE *Nepeta cataria*, MU TIAN LIAO *Actinidia polygama*. **Ref:** 6.

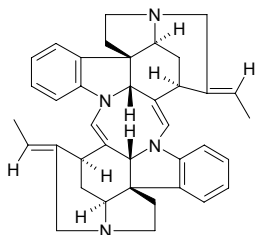
**5681 Dihydroniloticin**

C₃₀H₅₀O₃ (458.73). **Source:** *Eurycoma* sp. **Ref:** 4556.

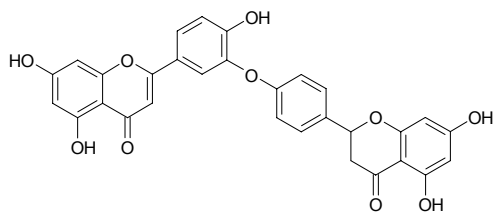


5682 Dihydrortonoxiferine I

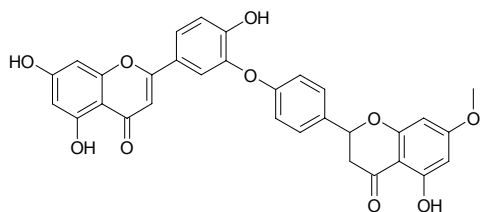
$C_{38}H_{40}N_4$ (552.77). Free alkali: amorphous powder, bitter acid salt (acetone-water): mp 300°C (dec). **Pharm:** Antibacterial (*Bacillus coli*, *Bacillus pyocyaneus*, and *Staphylococcus aureus*, 0.8~3.0mg/mL); antifungal (*Candida albicans*, 0.8~3.0mg/mL). **Source:** A FU ZE ER MA QIAN ZI *Strychnos afzelii*, CHANG HUA XU MA QIAN ZI *Strychnos dolichothyrsa*, YA MA XUN MA QIAN ZI *Strychnos amazonica*. **Ref:** 661.

**5683 2'',3''-Dihydroochnaflavone**

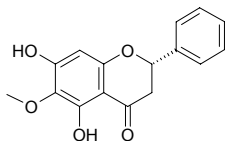
$C_{30}H_{20}O_{10}$ (540.48). mp > 300°C, $[\alpha]_D^{20} = +6.8^\circ$ ($c = 0.2$, MeOH). **Source:** JIN LIAN MU *Ochna integerrima* (leaf). **Ref:** 5133.

**5684 2'',3''-Dihydroochnaflavone 7''-O-methyl ether**

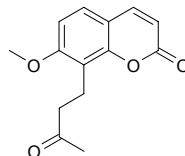
$C_{31}H_{22}O_{10}$ (554.51). mp 180~182°C, $[\alpha]_D^{20} = +7.7^\circ$ ($c = 0.2$, MeOH). **Source:** JIN LIAN MU *Ochna integerrima* (leaf). **Ref:** 5133.

**5685 Dihydrooxylin A**

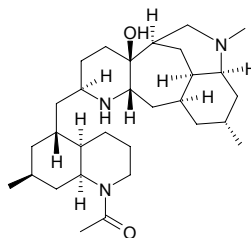
Dihydrooxylin [18956-18-8] $C_{16}H_{14}O_5$ (286.29). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**5686 Dihydroosthenon**

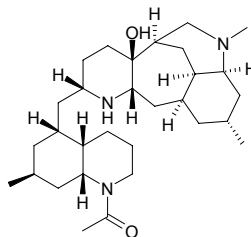
$C_{14}H_{14}O_4$ (246.27). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (14.7±1.2)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 176$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin, $IC_{50} = 341$ mol ratio/32 pmol TPA). **Source:** *Citrus hassaku*. **Ref:** 5048.

**5687 Dihydrooxolucidine A**

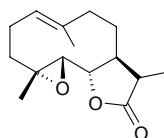
$C_{30}H_{51}N_3O_2$ (485.76). $[\alpha]_D^{21.5} = +3.9^\circ$ ($c = 0.79$, $CHCl_3$). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**5688 Dihydrooxolucidine B**

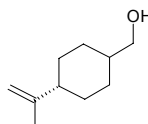
$C_{30}H_{51}N_3O_2$ (485.76). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**5689 11 β ,13-Dihydroparthenolide**

$C_{15}H_{22}O_3$ (250.34). **Pharm:** Cytotoxic (*in vitro*, SMMC-7721, $IC_{50} > 200$ µg/mL; HO-8910, $IC_{50} = 158$ µg/mL; control Vincristine, SMMC-7721, $IC_{50} = 30.35$ µg/mL; HO-8910, $IC_{50} = 20.74$ µg/mL)^[4736]. **Source:** CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0007%dw). **Ref:** 4736.

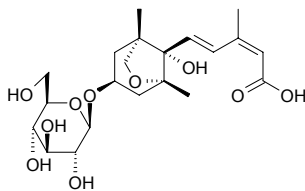
**5690 Dihydroperilla alcohol**

$C_{10}H_{18}O$ (154.25). **Source:** ZI SU YE *Perilla frutescens* var. *arguta*. **Ref:** 2.

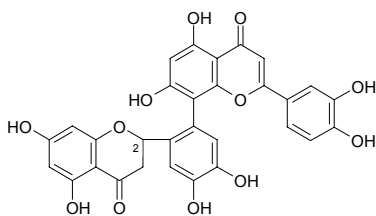


5691 Dihydrophaseic acid 4'-O-β-D-glucopyranoside

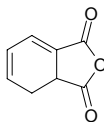
(1'R,3'R,5'R,8'S)-Epi-dihydrophaseic acid β-D-glucoside C₂₁H₃₂O₁₀ (444.48). Brown transparent gum, [α]_D = -5.0° (c = 0.16, MeOH). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (seed), HUA NAN WU ZHU YU *Evodia austrosinensis*. Ref: 3796, 5052.

**5692 2,3-Dihydrophilonotisflavone**

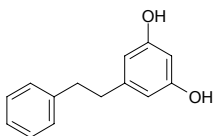
[124615-13-0] C₃₀H₂₀O₁₂ (572.49). Source: ZE XIAN *Philonotis fontana*. Ref: 3120.

**5693 4^{2,4}-Dihydrophthalic anhydride**

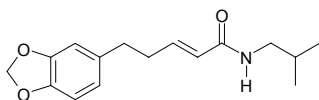
C₈H₆O₃ (150.14). Source: DANG GUI *Angelica sinensis*. Ref: 2.

**5694 Dihydropinosylvin**

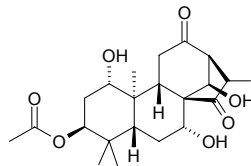
[14531-52-3] C₁₄H₁₄O₂ (214.27). Pharm: Antifungal (*Pyricularia grisea*, EC₅₀ = 44 μg/mL, EC₉₀ = 55 μg/mL; *Cladosporium herbarum*, EC₅₀ = 32 μg/mL, EC₉₀ = 209 μg/mL; *Fusarium avenaceum*, EC₅₀ = 56 μg/mL, EC₉₀ = 131 μg/mL; *Alternaria citri*, EC₅₀ = 89 μg/mL, EC₉₀ > 200 μg/mL; *Botrytis cinerea*, EC₅₀ = 69 μg/mL, EC₉₀ = 77 μg/mL)^[3751]; antibacterial. Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], *Stemona cf. pierrei* (underground parts), *Pinus* sp. Ref: 658, 3751.

**5695 5,6-Dihydropiperlonguminine**

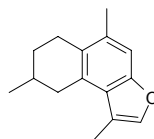
C₁₆H₂₁NO₃ (275.35). Pharm: Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0 μg, control Nystatin, MIA = 0.5 μg). Source: LIU TU HU JIAO *Piper tuberculatum* (seed). Ref: 5102.

**5696 Dihydropseurata F**

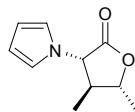
C₂₂H₃₂O₇ (408.50). mp 268–273°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**5697 4,5-Dihydropyrocurzerenone**

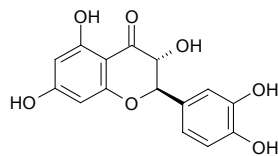
[59462-26-9] C₁₅H₁₈O (214.31). Crystals (pet. ether), mp 65–66°C, [α]_D¹⁷ = -28° (c = 0.84, CHCl₃). Source: JI JI *Chloranthus serratus*. Ref: 3122.

**5698 (3α,4β,5α)-4,5-Dihydro-3-(1-pyrryl)-4,5-dimethyl-2(3H)-furanone**

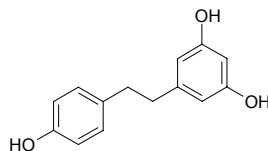
C₁₀H₁₃NO₂ (179.22). Yellowish needles. Source: GUANG JIN QIAN CAO *Desmodium styracifolium* (stem and leaf). Ref: 4907.

**5699 Dihydroquercetin**

Distylin; Taxifolin [480-18-2] C₁₅H₁₂O₇ (304.26). Yellow powder, mp 240–242°C, mp 221–222°C, [α]_D = +44.1° (c = 1.0, Me₂CO). Pharm: Anti-inflammatory (modulator of cytokine network: reduces IFN-γ-induced ICAM-1 protein, as well as mRNA expression in hmn keratinocytes)^[4416]. Source: BA DAN XING REN *Prunus amygdalus*, BAI HUA YING SHAN HONG *Rhododendron mucronatum*, MAN SHAN HONG *Rhododendron dauricum*, YING SHAN HONG *Rhododendron mucronulatum*, XIAN HE CAO GEN *Agrimonia pilosa* var. *japonica*, HUANG LIAN YA *Pistacia chinensis*, TU FU LING *Smilax glabra*, XIAO YE HONG GUANG SHU *Knema globularia*, *Pinus maritime* (bark). Ref: 4, 6, 336, 411, 416, 2209, 4416.

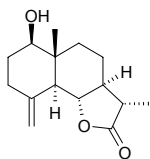
**5700 Dihydroresveratrol**

C₁₄H₁₄O₃ (230.47). Pharm: Antibacterial (*Escherichia coli* and *Staphylococcus aureus*); antifungal (*Cladosporium cladosporioides* and *Trichophyton mentagrophytes*). Source: *Morus* sp. Ref: 658.

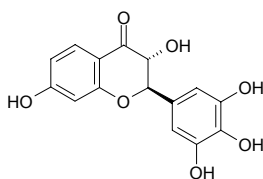


5701 11 β ,13-Dihydroreynosin

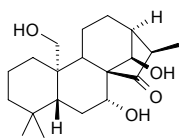
$C_{15}H_{22}O_3$ (250.34). **Pharm:** Cytotoxic (*in vitro*, HepG₂, CD₅₀ > 100 μ g/mL; HeLa, CD₅₀ > 100 μ g/mL; OVCAR-3, CD₅₀ = 95 μ g/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μ g/mL; HeLa, CD₅₀ = 5.2 μ g/mL; OVCAR-3, CD₅₀ = 3 μ g/mL). **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0015%dw). **Ref:** 4720.

**5702 Dihydrorobinetin**

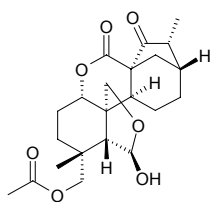
[70460-55-8] $C_{15}H_{12}O_7$ (304.26). mp 246°C; 225~226°C. **Source:** CI HUAI HUA *Robinia pseudoacacia*. **Ref:** 6.

**5703 16,17-Dihydrorostronol F**

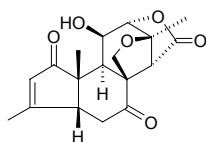
$C_{20}H_{32}O_4$ (336.48). **Pharm:** Cytotoxic inactive (hmn leukemia cell HL-60, 10 μ mol/L). **Source:** JIE XING YE TAI *Jungermannia truncata*. **Ref:** 4201.

**5704 Dihydrorugosanin**

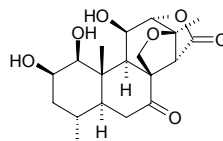
$C_{22}H_{30}O_7$ (406.48). mp 234~239°C, $[\alpha]_D^{20} = -197.6^\circ$ ($c = 0.21$, C_5H_5N). **Source:** ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdiosa rugosa*]. **Ref:** 4067.

**5705 5 β ,6-Dihydrosamaderine A**

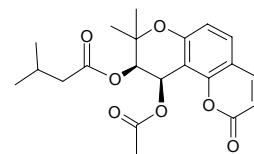
$C_{18}H_{20}O_6$ (332.36). White amorphous solid, $[\alpha]_D = +75^\circ$ ($c = 0.032$, $CHCl_3$). **Source:** MA DAO HUANG LIAN SHU *Samadera madagascariensis* (leaf). **Ref:** 5334.

**5706 3,4 β -Dihydrosamaderine C**

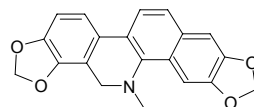
$C_{19}H_{26}O_7$ (366.41). Pale yellow amorphous solid, $[\alpha]_D = -18^\circ$ ($c = 0.022$, $CHCl_3$). **Pharm:** Cytotoxic (non-small cell lung cancer NCI-H266, LC₅₀ = 20.9 μ g/mL; colon cancer HCC-2998, LC₅₀ = 26.1 μ g/mL, HCT116, LC₅₀ = 35.9 μ g/mL; HCT15, LC₅₀ = 8.55 μ g/mL; CNS cancer SF539, LC₅₀ = 21.8 μ g/mL, U251, LC₅₀ = 9.42 μ g/mL; melanoma LOX IMVI, LC₅₀ = 7.09 μ g/mL, M14, LC₅₀ = 11.0 μ g/mL, SK-MEL-5, LC₅₀ = 8.42 μ g/mL; renal cancer A498, LC₅₀ = 18.1 μ g/mL, ACHN, LC₅₀ = 10.9 μ g/mL; prostate cancer DU-145, LC₅₀ = 50.8 μ g/mL). **Source:** MA DAO HUANG LIAN SHU *Samadera madagascariensis* (leaf). **Ref:** 5334.

**5707 Dihydrosamidin**

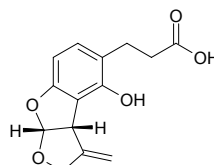
Dimidin [10182-81-7] $C_{21}H_{24}O_7$ (388.42). mp 117~119°C (methanol), $[\alpha]_D = +19^\circ$ ($c = 1.0$); $[\alpha]_D = +63^\circ$ ($c = 1.0$, dioxane). **Pharm:** Anti-adrenaline; antihypercholesterolemic (rbt, inhibits rise of cholesterol and lecithin); vasodilator. **Source:** CHI A MI *Ammi visnaga*, ZHANG GUO QIN *Phlojodicarpus sibiricus*. **Ref:** 658, 661.

**5708 Dihydrosanguinarine**

[3606-45-9] $C_{20}H_{15}NO_4$ (333.35). mp 191°C. **Pharm:** Antibacterial (antiphlogosis, using source plant XIAO HUA ZI JING, *Fumaria parviflora*); similar action with sanguinarin. **Source:** BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.049%)^[5508], DUI YE YUAN HU *Corydalis ledebouriana*, HUA LING CAO *Eschscholzia californica*, JU HUA HUANG LIAN *Corydalis pallida*, JU ZI JIN *Corydalis gigatea*, WEI LAN QIU GUO ZI JIN *Fumaria vaillantii*, XIAO HUA QIU GUO ZI JIN *Fumaria parviflora*, YING SU KE *Papaver somniferum*. **Ref:** 6, 658, 5508.

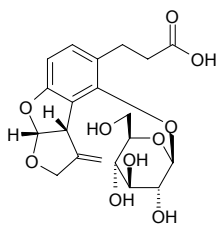
**5709 3,4-Dihydro-1,2-secomicrominutinin**

$C_{14}H_{14}O_5$ (262.26). Amorphous, $[\alpha]_D^{26} = +6.0^\circ$ ($c = 1.0$, MeOH). **Source:** XIAO GAN *Micromelum falcatum*. **Ref:** 2421.

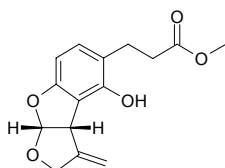


5710 3,4-Dihydro-1,2-secomicrominin-9-O-glucoside

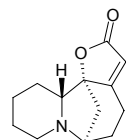
$C_{20}H_{24}O_{10}$ (424.41). Amorphous, $[\alpha]_D^{26} = +11.5^\circ$ ($c = 1.0$, MeOH). Source: XIAO GAN *Micromelum falcatum*. Ref: 2421.

**5711 3,4-Dihydro-1,2-secomicrominin methyl ester**

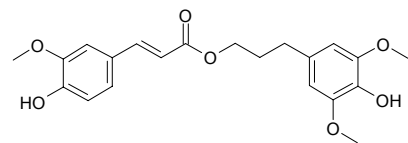
$C_{15}H_{16}O_5$ (276.29). Amorphous, $[\alpha]_D^{26} = -3.6^\circ$ ($c = 0.5$, $CHCl_3$). Source: XIAO GAN *Micromelum falcatum*. Ref: 2421.

**5712 Dihydrosecurinine**

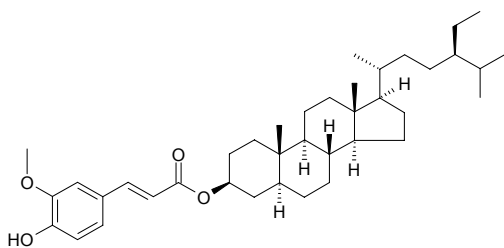
[1878-04-2] $C_{13}H_{17}NO_2$ (219.29). mp 58~60°C. Source: YI YE QIU *Securinea suffruticosa*. Ref: 6.

**5713 Dihydrosinapyl ferulate**

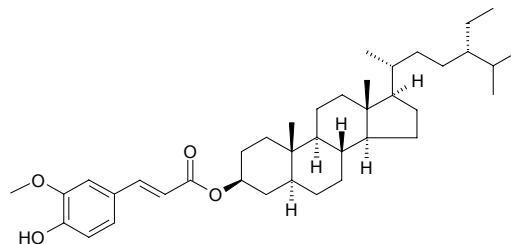
$C_{21}H_{24}O_7$ (388.42). Pale yellow semi-solid. Source: LUO TUO HAO *Peganum nigellastrum* (aerial parts). Ref: 3945.

**5714 Dihydro-β-sitosteryl ferulate**

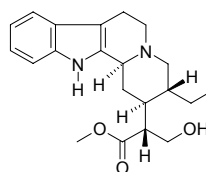
[83-45-4] $C_{39}H_{60}O_4$ (592.91). mp 156~157°C. Source: MI PI KANG *Oryza sativa*. Ref: 6.

**5715 Dihydro-γ-sitosteryl ferulate**

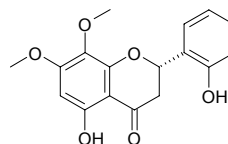
$C_{39}H_{60}O_4$ (592.91). mp 155~156°C. Source: MI PI KANG *Oryza sativa*. Ref: 6.

**5716 Dihydrositsirikine**

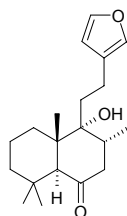
[6519-26-2] $C_{21}H_{28}N_2O_3$ (356.47). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.

**5717 Dihydroskullcapflavone I**

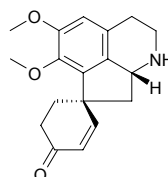
$C_{17}H_{16}O_6$ (316.31). Colorless needles ($CHCl_3$), mp 151~153°C, $[\alpha]_D^{28} = -21.7^\circ$ ($c = 0.15$, MeOH). Source: TIAO WEN CHUAN XIN LIAN *Andrographis lineata*. Ref: 3390.

**5718 Dihydroolidagenone**

$C_{20}H_{30}O_3$ (318.46). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

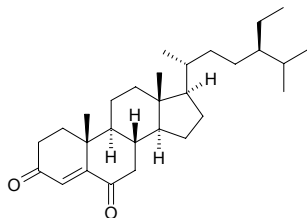
**5719 (+)-8,9-Dihydrostepharine**

$C_{18}H_{21}NO_3$ (299.37). Colorless needles (MeOH), $[\alpha]_D = +141.4^\circ$ ($c = 0.0055$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

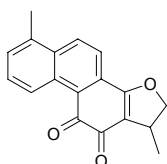


5720 22-Dihydrostigmast-4-en-3,6-dione

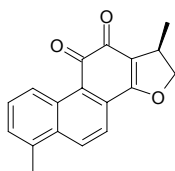
$C_{29}H_{46}O_2$ (426.69). mp 170–171°C. Source: LING *Trapa bispinosa*. Ref: 6.

**5721 15,17-Dihydrotanshinone I**

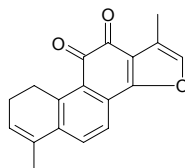
$C_{18}H_{14}O_3$ (278.31). Pharm: immunosuppressant (lymphocyte transformation assay control group concanavalin A, 5µg/mL, InRt = -28%; 20µg/mL, InRt = 28%; 80µg/mL, InRt = 49%, control Dexamethasone, 50µg/mL, InRt = 63%). Source: ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts). Ref: 4260.

**5722 Dihydrotanshinone I**

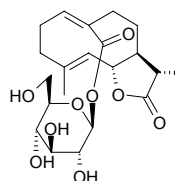
15,16-Dihydrotanshinone I $C_{18}H_{14}O_3$ (278.31). Pharm: Antibacterial (*Staphylococcus aureus*, hmn *Mycobacterium tuberculosis* H37Rv, MIC = 1.5µg/mL); anti-allergic (inhibits degranulation of mast cell RBL-2H3, dose-dependent, $IC_{50} = (14.3 \pm 2.1) \mu\text{mol/L}$)^[4939], MAO A inhibitor (hmn recombinant MAO A, $IC_{50} = 23 \mu\text{mol/L}$); iNOS inhibitor (RAW267.4 cells, LPS-induced, $IC_{50} = 2.4 \mu\text{mol/L}$)^[5032]; acetylcholinesterase (AChE) inhibitor ($IC_{50} = 1.0 \mu\text{mol/L}$, Argentin A, $IC_{50} = 42.8 \mu\text{mol/L}$)^[4944]. Source: DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.079%)^[5508], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.067%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.067%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.001%)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.002%)^[5508], LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.031%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.001%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.004%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = 0.006%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.031%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.019%)^[5508], ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.120%)^[5508]. Ref: 2, 658, 4939, 4944, 5032, 5508.

**5723 1,2-Dihydrotanshinone**

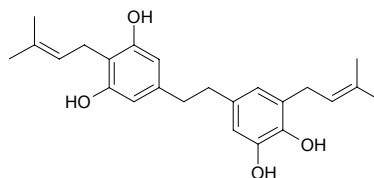
1,2-Dihydrotanshinone $C_{18}H_{14}O_3$ (278.31). Red acicular crystals (benzene), mp 169°C. Source: DAN SHEN *Salvia miltiorrhiza*, GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 721, 4538.

**5724 11β,13-Dihydro-taraxinic acid-1'-O-β-D-glucopyranoside**

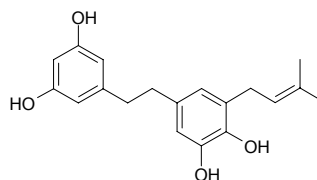
$C_{21}H_{30}O_9$ (426.47). Colorless needle crystals (EtOH–Et₂O), mp 175–177°C, $[\alpha]_D^{21} = -52.0^\circ$ (CH₃OH, $c = 0.450$). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 2216, 5357.

**5725 α,α'-Dihydro-3,5,3',4'-tetrahydroxy-4,5'-diisopentenylstilbene**

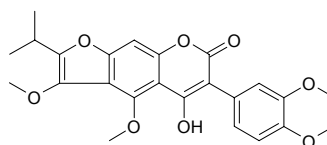
$C_{24}H_{30}O_4$ (382.5). Amorphous solid. Pharm: Antioxidant (linoleic acid solution, inhibition rate constant $K_{inh} = 110000 \text{L}/(\text{mol}\cdot\text{s})$). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf: yield = 0.06%fw). Ref: 4685.

**5726 α,α'-Dihydro-3,5,3',4'-tetrahydroxy-5'-isopentenyl stilbene**

$C_{19}H_{22}O_4$ (314.38). Yellow oil. Pharm: Antioxidant (linoleic acid solution, inhibition rate constant $K_{inh} = 90000 \text{L}/(\text{mol}\cdot\text{s})$). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf: yield = 0.25%fw). Ref: 4685.

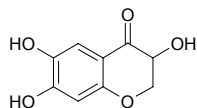
**5727 3'',4''-DihydrothoningineC**

$C_{24}H_{24}O_8$ (440.45). Colorless oil. Source: *Milletia thonningii*. Ref: 2326.

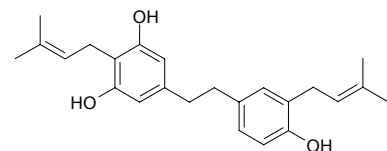


5728 2,3-Dihydro-3,6,7-trihydroxy-1-H-benzo[b]pyran-4-one

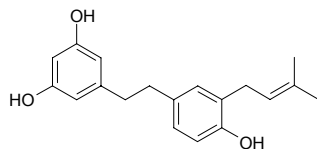
C₉H₈O₅ (196.16). Yellow powder, $[\alpha]_D^{23} = -8.0^\circ$ ($c = 0.50$, MeOH). Source: HUA TAO SHU *Trewin nudiflora* (seed crust). Ref: 4894.

**5729 α,α' -Dihydro-3,5,4'-trihydroxy-4,5'-diisopentenylstilbene**

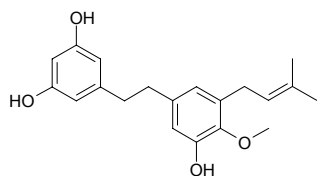
C₂₄H₃₀O₃ (366.5). Orange-yellow oil. Pharm: Antioxidant (linoleic acid solution, inhibition rate constant $K_{inh} = 70000L/(mol \cdot s)$). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf: yield = 0.16%fw). Ref: 4685.

**5730 α,α' -Dihydro-3,5,4'-trihydroxy-5'-isopentenylstilbene**

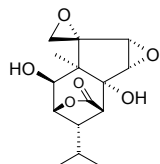
C₁₉H₂₂O₃ (298.39). Amorphous solid. Pharm: Antioxidant (linoleic acid solution, inhibition rate constant $K_{inh} = 60000L/(mol \cdot s)$). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf: yield = 0.08%fw). Ref: 4685.

**5731 α,α' -Dihydro-3,5,3'-trihydroxy-4'-methoxy-5'-isopentenylstilbene**

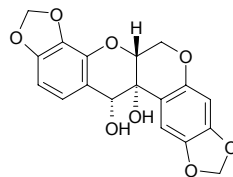
C₂₀H₂₄O₄ (328.41). Colorless oil. Pharm: Antioxidant (linoleic acid solution, inhibition rate constant $K_{inh} = 80000L/(mol \cdot s)$). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf: yield = 0.35%fw). Ref: 4685.

**5732 Dihydrotutin**

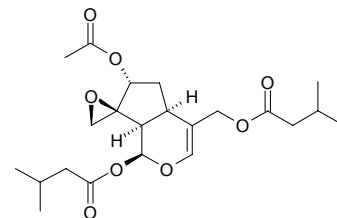
C₁₅H₂₀O₆ (296.32). Source: RI BEN MA SANG *Coriaria japonica* (seed). Ref: 4497.

**5733 12-Dihydrousarotenoid A**

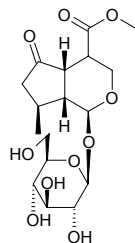
C₁₈H₁₄O₈ (358.31). Pharm: Antimalarial inactive (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, IC₅₀ > 100μmol/L, control Chloroquine, IC₅₀ = 0.094μmol/L, control Quinine, IC₅₀ = 0.209μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, IC₅₀ > 100μmol/L, control Chloroquine, IC₅₀ = 0.009μmol/L, control Quinine, IC₅₀ = 0.044μmol/L). Source: *Milletia usaramensis* ssp. *usaramensis*. Ref: 3454.

**5734 Dihydrovalepotriate**

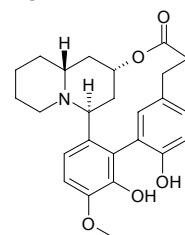
C₂₂H₃₂O₈ (424.50). mp 62~63°C. Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 6.

**5735 3,4-Dihydroverbenalin**

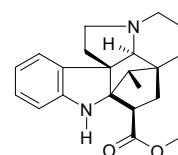
C₁₇H₂₆O₁₀ (390.39). Amorphous powder (CH₃OH), mp 209~211°C. Source: MA BIAN CAO *Verbena officinalis*. Ref: 787.

**5736 Dihydroverticillatine**

[10215-02-8] C₂₅H₂₉NO₅ (423.51). mp 258~259°C. Source: ZI WEI YE *Lagerstroemia indica*. Ref: 6.

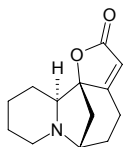
**5737 Dihydrovindolinine**

[17172-16-6] C₂₁H₂₆N₂O₂ (338.45). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.

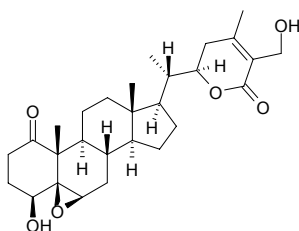


5738 14,15-Dihydrovirosecurinine

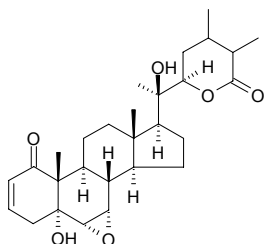
$C_{13}H_{17}NO_2$ (219.29). Yellow oil, $[\alpha]_D^{20} = +280^\circ$ ($c = 0.1$, EtOH). Source: YI YE QIU *Securinega suffruticosa* (branch leaf). Ref: 4818.

**5739 2,3-Dihydrowithaferin A**

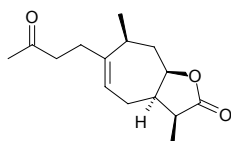
$C_{28}H_{40}O_6$ (472.63). Pharm: Acetylcholinesterase (AChE) inhibitor ($IC_{50} = (500 \pm 3) \mu\text{mol/L}$, control Galanthamine $IC_{50} = (8.2 \pm 0.0) \mu\text{mol/L}$, Eserine $IC_{50} = (0.85 \pm 0.00) \mu\text{mol/L}$); BChE inhibitor inactive. Source: CUI MIAN SHUI QIE *Withania somnifera*. Ref: 2563.

**5740 24,25-Dihydrowithanolide A**

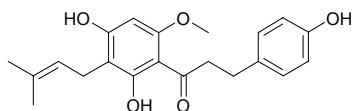
$C_{28}H_{40}O_6$ (472.63). Source: CUI MIAN SHUI QIE *Withania somnifera* (leaf). Ref: 5329.

**5741 11 α ,13-Dihydroxanthalongin**

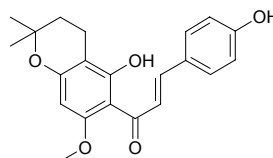
$C_{15}H_{22}O_3$ (250.34). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

**5742 Dihydroxanthohumol**

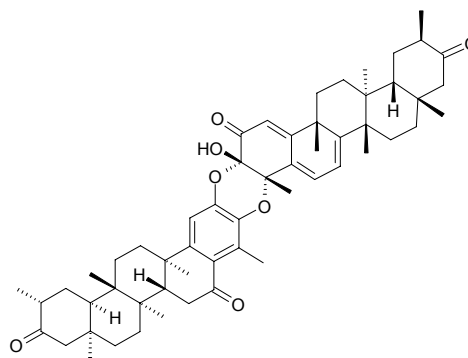
α,β -Dihydroxanthohumol $C_{21}H_{24}O_5$ (356.42). Pharm: Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} = 23 \mu\text{mol/L}$, without showing cytotoxicity at concentrations lower than $10 \mu\text{mol/L}$, cell viability > 95%)^[4795]. Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789, 4795.

**5743 1'',2''-Dihydroxanthohumol C**

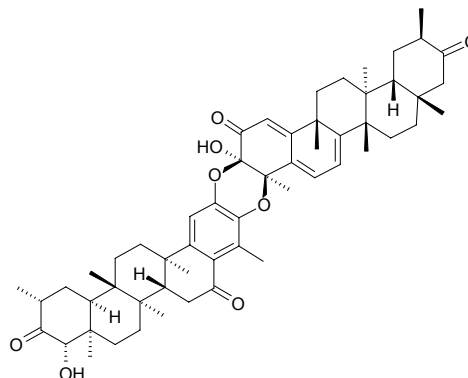
(2*E*)-1-(3,4-Dihydro-5-hydroxy-7-methoxy-2,2-dimethyl-2*H*-1-benzopyran-6-yl)-3-(4-hydroxyphenyl)-2-propen-1-one $C_{21}H_{22}O_5$ (354.41). Orange solid. Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**5744 7',8'-Dihydroxuarine A α**

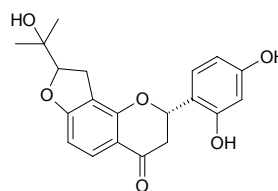
$C_{56}H_{72}O_7$ (857.19). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

**5745 7',8'-Dihydroxuarine D β**

$C_{56}H_{72}O_8$ (873.19). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

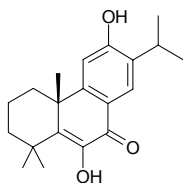
**5746 (2*S*)-2',4'-Dihydroxy-2''-(1-hydroxy-1-methylethyl)dihydrofuro [2,3-*h*]-flavanone**

$C_{20}H_{20}O_6$ (356.38). Yellow powder. Pharm: Cytotoxic (aromatase inhibitor, a promising lead as potential cancer chemopreventive agents)^[5038]; aromatase inhibitor (*in vitro*, $IC_{50} = 0.1 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090, 5038.

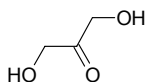


5747 6,12-Dihydroxy-5,8,11,13-abietetraen-7-one

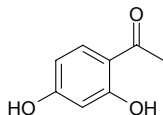
6,12-Dihydroxyabieta-5,8,11,13-tetraen-7-one [140923-35-9] C₂₀H₂₆O₃ (314.43). [α]_D²⁵ = -9.0° (c = 1.0, CHCl₃). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 7.8 μg/mL (MCC > 250 μg/mL), control Tetracycline, MIC = 1.56 μg/mL; *Bacillus subtilis*, MIC > 250 μg/mL, Tetracycline, MIC = 1.56 μg/mL; *Enterococcus faecalis*, MIC = 7.8 μg/mL (MCC > 250 μg/mL), Tetracycline, MIC = 1.56 μg/mL; *Listeria monocytogenes*, MIC = 7.8 μg/mL (MCC > 250 μg/mL), Tetracycline, MIC < 0.39 μg/mL; *Salmonella enteritidis*, MIC > 250 μg/mL, Tetracycline, MIC = 1.56 μg/mL; *Escherichia coli*, MIC > 250 μg/mL, Tetracycline, MIC = 1.56 μg/mL; *Shigella sonnei*, MIC > 250 μg/mL, Tetracycline, MIC = 6.25 μg/mL)^[5401]; antifungal (*Candida albicans*, MIC > 250 μg/mL, Miconazole, MIC = 8 μg/mL; *Candida krusei*, MIC > 250 μg/mL, Miconazole, MIC = 2 μg/mL)^[5401]. **Source:** CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*, DU SONG SHI *Juniperus rigida*. **Ref:** 6, 5401.

**5748 Dihydroxyacetone**

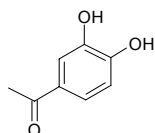
[96-26-4] C₃H₆O₃ (90.08). **Source:** CU vinegar. **Ref:** 6.

**5749 2',4'-Dihydroxyacetophenone**

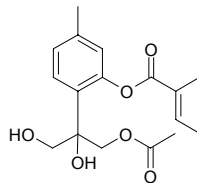
[89-84-9] C₈H₈O₃ (152.15). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

**5750 3',4'-Dihydroxyacetophenone**

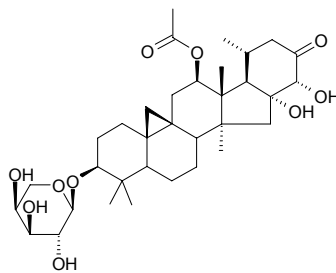
[1197-09-7] C₈H₈O₃ (152.14). White tiny cluster acicular crystals, mp 119–121°C. **Pharm:** Platelet aggregation inhibitor (induced by ADP, 0.5 mg/mL); CVS activity (anesthetic dog iv, 40 mg/kg, increases coronary flow, reduces consumption of oxygen in myocardium, increases cerebral blood flow, lowers blood pressure, and slows heart rate); inhibits vasomotion (induced by KCl, 1.0 mg/kg); anti-inflammatory inactive (no significant inhibitory effects on mast cells and neutrophils stimulated with various inducers; no significant inhibitory effects on TNF- α formation from RAW264.7 stimulated with LPS and N9 microglial cells stimulated with LPS/INF- γ)^[3054]. **Source:** BAI WEI *Cynanchum atratum* (root)^[3054], JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], TU MAO DONG QING *Ilex pubescens* var. *glaber*. **Ref:** 661, 3054.

**5751 8,10-Dihydroxy-9-acetoxythymol 3-O-tiglate**

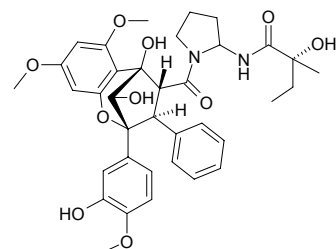
C₁₇H₂₂O₆ (322.36). [α]_D²¹ = -1.6° (c = 1.5, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.

**5752 16 α ,24 α -Dihydroxy-12 β -acetoxy-25,26,27-trinor-16,24-cycloartan-23-one 3 β -O- α -L-arabinopyranoside**

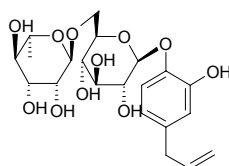
C₃₄H₅₂O₁₀ (620.79). White powder (MeOH), mp 257–259°C, [α]_D = -102.1° (c = 0.18, MeOH). **Source:** XING AN SHENG MA *Cimicifuga dahurica* (rhizome). **Ref:** 4140.

**5753 3',19-Dihydroxyaglaine C**

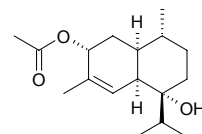
C₃₆H₄₂N₂O₁₀ (662.74). [α]_D²⁰ = -103.4° (c = 0.43, CHCl₃). **Source:** MI ZI LAN *Aglaia odorata*. **Ref:** 2289.

**5754 3,4-Dihydroxyallylbenzene 4-O-[α -L-rhamnopyranosyl-(1→6)]- β -D-glucopyranoside**

C₂₁H₃₀O₁₁ (458.47). White amorphous powder. **Source:** JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. **Ref:** 832.

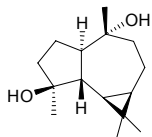
**5755 3 α ,7 α -Dihydroxy amorph-4-ene 3-acetate**

C₁₇H₂₈O₃ (280.41). Colorless oil, [α]_D = -9.4° (c = 0.1, CHCl₃). **Source:** HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 3435.

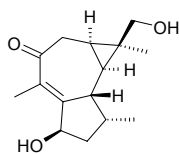


5756 4 β ,10 α -Dihydroxyaromadendrane

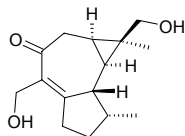
C₁₅H₂₆O₂ (238.37). Source: JU DA MI ZI LAN *Aglaia grandis* (leaf). Ref: 3947.

**5757 2 β ,13-Dihydroxyaromadendr-1(10)-en-9-one**

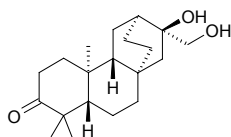
C₁₅H₂₂O₃ (250.34). Needles (acetone), mp 145~146°C, [α]_D²⁵ = -128° (*c* = 0.6, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 10%, 48h mortality = 20%, 72h mortality = 70%)^[5140]. Source: *Curvularia lunata*. Ref: 5140.

**5758 13,14-Dihydroxyaromadendr-1(10)-en-9-one**

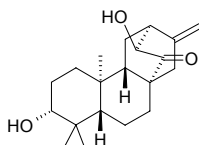
C₁₅H₂₂O₃ (250.34). Oil, [α]_D = -160° (*c* = 1.0, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 10%, 48h mortality = 40%, 72h mortality = 80%)^[5140]. Source: *Curvularia lunata*. Ref: 5140.

**5759 ent-16 α ,17-Dihydroxyatisan-3-one**

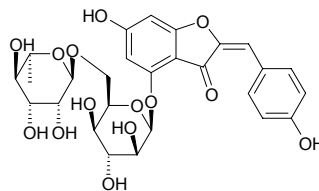
C₂₀H₃₂O₃ (320.48). Colorless needles. Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4585.

**5760 ent-3 β , (13S)-Dihydroxyatis-16-en-14-one**

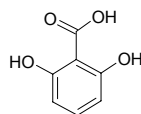
C₂₀H₃₀O₃ (318.46). White powder. Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4585.

**5761 6,4'-Dihydroxy aurone 4-O-rutinoside**

C₂₇H₃₀O₁₄ (578.53). mp 228°C. Source: SI ZI TAN *Pterocarpus santalinus* (wood). Ref: 3889.

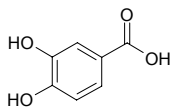
**5762 2,6-Dihydroxybenzoic acid**

C₇H₆O₄ (154.12). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 4186.

**5763 3,4-Dihydroxybenzoic acid**

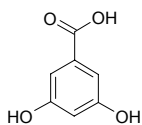
Protocatechuic acid [99-50-3] C₇H₆O₄ (154.12). mp 199~200°C, 195~196°C. Pharm: DPPH scavenger (SC₅₀ = 11μmol/L)^[4247]; antioxidant (*in vitro*, DPPH scavenger, 0.1mg/mL, ScRt = 86.5%)^[3015]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 7.2μmol/L)^[4247]; prostaglandin synthetase activator; antiasthmatic (gpg, asthma induced by histamine); antibacterial (*Staphylococcus albus*, *Staphylococcus aureus*, *Diplococcus pneumoniae*, α -*Streptococcus*, *Bacillus coli*, *Bacillus pyocyaneus*, *Bacillus proteus* and *Hemophilus influenzae*); antifungal (ash fungi); antihepatotoxin; anti-inflammatory; anti-venom; antitussive (dispels phlegm, mus, orl, 4.86mg); reduces consumption of oxygen in myocardium; LD₅₀ (mus, ip) = 896.4mg/kg. Source: AI NA XIANG *Blumea balsamifera* (leaf and twig: mean content = 0.0077%)^[5508], BAI YE TENG *Cryptolepis sinensis*, BAN XIA *Pinellia ternata*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.047%)^[5508], DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0056%dw)^[4767], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.340%)^[5508], GE YE MI HOU TAO *Actinidia rubricaulis* var. *coriacea* (ripe fruit: content = 0.34%)^[5508], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (twig: content scope of 41 origins = 0.0015%~0.0164%, mean content = 0.0069%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.038%)^[5508], HONG PI YUN SHAN *Picea koraiensis*, HU HUANG LIAN *Picrorhiza kurroa*, HU ZHANG *Polygonum cuspidatum*, HUA NAN MI HOU TAO *Actinidia glaucophylla* (ripe fruit: content = 0.40%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.464%)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.296%)^[5508], JIN HUA MI HOU TAO *Actinidia chrysantha* (ripe fruit: content = 0.17%)^[5508], JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*] (rhizome: mean content of 4 origins = 0.0284%)^[5508], JING LI MI HOU TAO *Actinidia callosa* var. *henryi* (ripe fruit: content = 0.32%)^[5508], JU AN *Eucalyptus grandis*, KUO YE MI HOU TAO *Actinidia latifolia* (ripe fruit: content = 0.18%)^[5508], LAN YU BAI JI *Bletilla formosana* (whole herb), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.336%)^[5508], LI ZHI CAO *Salvia plebeia*, LU SHAN SHI WEI *Pyrrhosia sheareri*, LU XIAN CAO

Pyrola calliantha [Syn. *Pyrola rotundifolia* ssp. *chinensis*], MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.140%)^[5508], MAO HUA MI HOU TAO *Actinidia eriantha* (ripe fruit: content = 0.14%)^[5508], MEI WEI MI HOU TAO *Actinidia deliciosa* (ripe fruit: content = 0.16%)^[5508], MI HOU LI *Actinidia arguta* (ripe fruit: content = 0.26%)^[5508], MI HOU TAO *Actinidia chinensis* (ripe fruit: content = 0.11%)^[5508], MU TIAN LIAO *Actinidia polygama* (ripe fruit: content = 0.31%)^[5508], MU ZEI MA HUANG *Ephedra equisetina*, NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.217%)^[5508], NAN FANG OU SHI *Erica australis*, NI DAN SHEN *Salvia sinica* (dried root: content = 0.088%)^[5508], PU HUANG *Typha angustata*, QUAN CHI QIANG WEI *Rosa canina*, SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.147%)^[5508], SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0008%dw)^[4747], SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*], XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00041%), XIU MAO JI SHENG *Taxillus levinei*, XUAN FU HUA *Inula britannica*, YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.059%)^[5508], ZANG HONG HUA *Crocus sativus* (petal: yield = 0.00016%), ZI HUA JING TIAN *Hylotelephium mingjinianum*, ZONG LV PI *Trachycarpus fortunei* (petiole and fibre of sheath, roasted petiole: mean content of 5 origins = 0.033%)^[5508], occurs in many plants (various higher plants: e.g. *Fagopyrum* spp. and *Alnus* spp. etc). Ref: 2, 4, 6, 308, 527, 559, 658, 660, 1521, 3015, 4247, 4500, 4747, 4767, 5501, 5508.



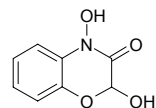
5764 3,5-Dihydroxybenzoic acid

[99-10-5] C₇H₆O₄ (154.12). Light-yellow crystals, mp 232–233°C, mp 176–178°C. Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*] (fruit: yield = 0.0028%dw)^[9], ZE QI *Euphorbia helioscopia*. Ref: 6, 9.



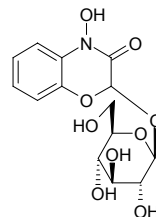
5765 2,4-Dihydroxy-1,4-benzoxazin-3-one

C₈H₇NO₄ (181.15). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2080.



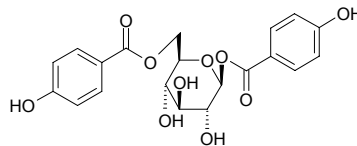
5766 2,4-Dihydroxy-1,4-benzoxazin-3-one-2-O-beta-D-glucopyranoside

C₁₄H₁₇NO₉ (343.29). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2080.



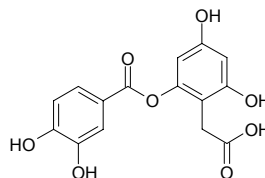
5767 1,6-Di-O-p-hydroxybenzoyl-beta-D-glucopyranoside

C₂₀H₂₀O₁₀ (420.38). Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.



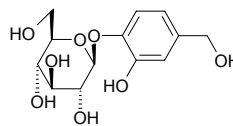
5768 2-O-(3,4-Dihydroxybenzoyl)-2,4,6-trihydroxyphenylacetic acid

C₁₅H₁₂O₈ (320.26). Solid. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*] (petal). Ref: 4965.



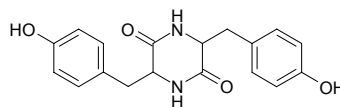
5769 3,4-Dihydroxybenzyl alcohol-4-glucoside

C₁₃H₁₈O₈ (302.28). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.



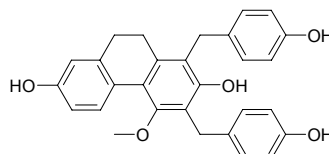
5770 3,6-Di(4-hydroxy)benzyl-2,5-dioxopiperazine

C₁₈H₁₈N₂O₄ (326.36). Source: DONG CHONG XIA CAO *Cordyceps sinensis* (whole herb). Ref: 4462.



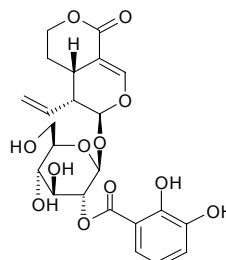
5771 1,3-Di(4-hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol

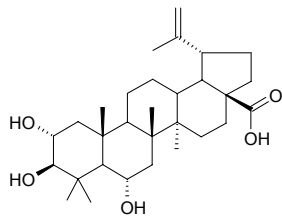
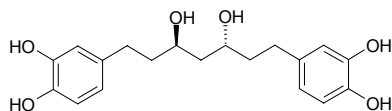
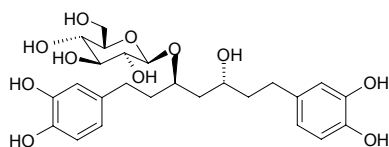
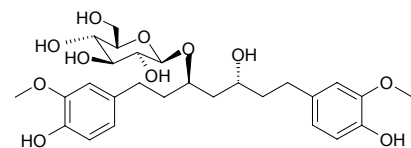
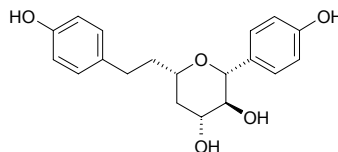
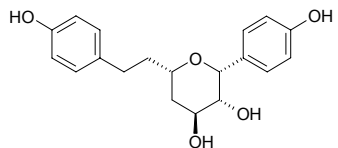
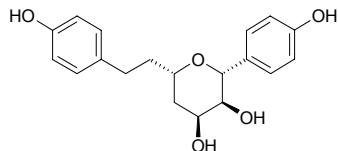
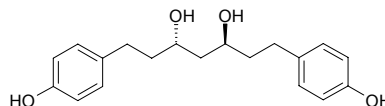
C₂₉H₂₆O₅ (454.53). Source: LAN YU BAI JI *Bleilla formosana* (whole herb). Ref: 4500.



5772 2'-(o,m-Dihydroxybenzyl) sweroside

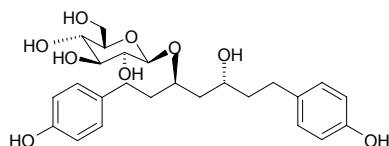
[201598-65-4] C₂₃H₂₆O₁₂ (494.46). Yellow amorphous powder, mp 101–103°C, [α]_D²⁰ = –86° (c = 6.349, MeOH). Source: BAI HUA LONG DAN *Gentiana algida*. Ref: 704.



5773 2 α ,6 α -Dihydroxybetulinic acidC₃₀H₄₈O₅ (488.71). Colorless amorphous solid, mp 223~225°C (MeOH).Source: *Leandra chaetodon* (whole herb). Ref: 5411.**5774 (3R,5R)-3,5-Dihydroxy-1,7-bis-(3,4-dihydroxyphenyl)heptane**C₁₉H₂₄O₆ (348.4). Viscous syrup, $[\alpha]_D^{23} = +4.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 1.8 μ g/mL; HSC-2, IC₅₀ = 54 μ g/mL; HGF, IC₅₀ > 250 μ g/mL; control Etoposide: HL-60, IC₅₀ = 0.2 μ g/mL; HSC-2, IC₅₀ = 24 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.02%dw). Ref: 4609.**5775 (3R,5R)-3,5-Dihydroxy-1,7-bis(3,4-dihydroxyphenyl)heptane 3-O- β -D-glucopyranoside**C₂₅H₃₄O₁₁ (510.54). Amorphous solid, $[\alpha]_D^{23} = -8.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 3 μ g/mL; HSC-2, IC₅₀ = 92 μ g/mL; HGF, IC₅₀ = 189 μ g/mL; control Etoposide: HL-60, IC₅₀ = 0.2 μ g/mL; HSC-2, IC₅₀ = 24 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0022%dw). Ref: 4609.**5776 (3R,5R)-3,5-Dihydroxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptane 3-O- β -D-glucopyranoside**C₂₇H₃₈O₁₁ (538.6). Amorphous solid, $[\alpha]_D^{23} = -18.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ > 10 μ g/mL; HSC-2, IC₅₀ = 198 μ g/mL; HGF, IC₅₀ > 250 μ g/mL; control Etoposide: HL-60, IC₅₀ = 0.2 μ g/mL; HSC-2, IC₅₀ = 24 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00072%dw). Ref: 4609.**5777 (3S,5R,6S,7R)-5,6-Dihydroxy-1,7-bis(4-hydroxyphenyl)-de-O-methylcentrolbine**C₁₉H₂₂O₅ (330.38). Yellow amorphous solid. Pharm: Cytotoxic (mixture with (3S,5S,6R,7R)-5,6-Dihydroxy-1,7-bis(4-hydroxyphenyl)-de-O-methylcentrolbine: Colon26-L5, ED₅₀ = 49.4 μ mol/L, control 5-FU, ED₅₀ = 0.53 μ mol/L; HT1080, ED₅₀ = 83.7 μ mol/L, 5-FU, ED₅₀ = 8.0 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed). Ref: 3048.**5778 (3S,5S,6R,7R)-5,6-Dihydroxy-1,7-bis(4-hydroxyphenyl)-de-O-methylcentrolbine**C₁₉H₂₂O₅ (330.38). Yellow amorphous solid. Pharm: Cytotoxic (mixture with (3S,5R,6S,7R)-5,6-Dihydroxy-1,7-bis(4-hydroxyphenyl)-de-O-methylcentrolbine: Colon26-L5, ED₅₀ = 49.4 μ mol/L, control 5-FU, ED₅₀ = 0.53 μ mol/L; HT1080, ED₅₀ = 83.7 μ mol/L, 5-FU, ED₅₀ = 8.0 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed). Ref: 3048.**5779 (3S,5S,6S,7R)-5,6-Dihydroxy-1,7-bis(4-hydroxyphenyl)-4''-de-O-methylcentrolbine**C₁₉H₂₂O₅ (330.38). Yellow amorphous solid, $[\alpha]_D^{25} = +28.5^\circ$ ($c = 0.040$, MeOH). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 44.2 μ mol/L, control 5-FU, ED₅₀ = 0.53 μ mol/L; HT1080, ED₅₀ > 100 μ mol/L, 5-FU, ED₅₀ = 8.0 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00025%dw). Ref: 3048.**5780 (3S,5S)-3,5-Dihydroxy-1,7-bis(4-hydroxyphenyl)heptane**C₁₉H₂₄O₄ (316.4). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 12.8 μ mol/L; HT1080, ED₅₀ = 94.4 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00174%). Ref: 3042.

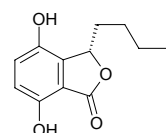
5781 (3R,5R)-3,5-Dihydroxy-1,7-bis(4-hydroxyphenyl)heptane 3-O-β-D-glucopyranoside

$C_{25}H_{34}O_9$ (478.54). Amorphous solid, $[\alpha]_D^{23} = -8.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} > 10\mu\text{g/mL}$; HSC-2, $IC_{50} = 157\mu\text{g/mL}$; HGF, $IC_{50} = 213\mu\text{g/mL}$; control Etoposide: HL-60, $IC_{50} = 0.2\mu\text{g/mL}$; HSC-2, $IC_{50} = 24\mu\text{g/mL}$; HGF, $IC_{50} > 200\mu\text{g/mL}$). **Source:** JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0026%dw). **Ref:** 4609.



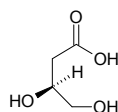
5782 4,7-Dihydroxy-3-butylphthalide

$C_{12}H_{14}O_4$ (222.24). White plate crystals, mp 211°C. **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2156.



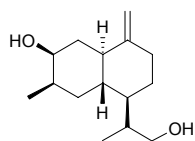
5783 (3S),4-Dihydroxybutyric acid

$C_4H_8O_4$ (120.11). Colorless oil, $[\alpha]_D^{25} = -12.3^\circ$ ($c = 0.02$, H₂O). **Pharm:** Tyrosinase inhibitor inactive (*in vitro*). **Source:** ZANG HONG HUA *Crocus sativus* (petal: yield = 0.0023%). **Ref:** 3015.



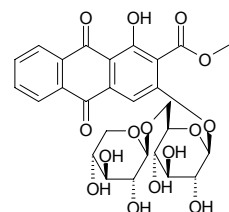
5784 (4R)-3β,14-Dihydroxycadin-10(15)-ene

$C_{15}H_{26}O_2$ (238.37). Gum. **Pharm:** Insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). **Source:** BAI JIANG JUN *Beauveria bassiana*. **Ref:** 3949.



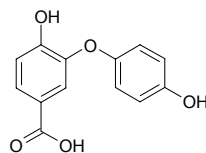
5785 1,3-Dihydroxy-2-carbomethoxy-9,10-anthraquinone 3-O-β-primeveroside

$C_{27}H_{28}O_{15}$ (592.52). Yellow powder, $[\alpha]_D^{24} = -184.9^\circ$ ($c = 0.08$, MeOH). **Source:** MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). **Ref:** 4219.



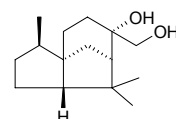
5786 2,4'-Dihydroxy-5-carboxy-dibenzyl ether

$C_{13}H_{10}O_5$ (246.22). **Source:** MAO GUO QI *Acer nikoense* (stem cortex). **Ref:** 4304.



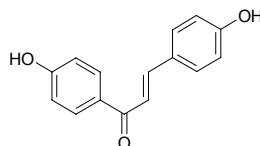
5787 3α,15-Dihydroxy cedrane

$C_{15}H_{26}O_2$ (238.37). Colorless oil, $[\alpha]_D = -7.4^\circ$ ($c = 1.4$, CHCl₃). **Source:** HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 3435.



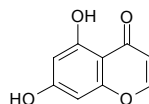
5788 4,4'-Dihydroxychalcone

$C_{15}H_{12}O_3$ (240.26). **Pharm:** Cytotoxic inactive (Colon26-L5, HT1080, 100μmol/L)^[3042]. **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00013%). **Ref:** 3042.



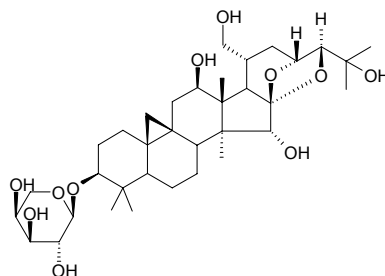
5789 5,7-Dihydroxychromone

[31721-94-5] $C_9H_6O_4$ (178.15). **Pharm:** Antibacterial (gram-positive bacteria); Anti-HIV (inhibits HIV replication, H9 Lymphocytic Cells, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) $> 25\mu\text{g/mL}$, $EC_{50} = 18.65\mu\text{g/mL}$, $TI = 1.34$, control AZT $IC_{50} = 500\mu\text{g/mL}$, $EC_{50} = 0.0007\mu\text{g/mL}$, $TI = 710000$)^[4267]. **Source:** SANG YE *Morus alba*, SHUI FEI JI *Silybum marianum*, LUO HUA SHENG *Arachis hypogaea*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). **Ref:** 658, 4267.



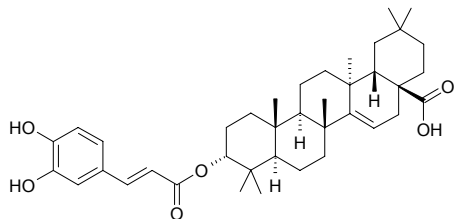
5790 12β,21-Dihydroxycimigenol 3-O-α-L-arabinopyranoside

$C_{35}H_{56}O_{11}$ (652.83). Amorphous solid, $[\alpha]_D^{27} = +10.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HSC-2 cells, $IC_{50} = 222\mu\text{mol/L}$, control Etoposide, $IC_{50} = 24\mu\text{mol/L}$; HGF cells, $IC_{50} = 265\mu\text{mol/L}$)^[4158]. **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.



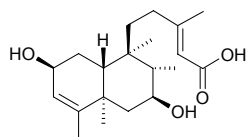
5791 3 α -(3'',4''-Dihydroxy-*trans*-cinnamoyloxy)-*D*-friedo-olean-14-en-28-oic acid

C₃₉H₅₄O₆ (618.86). Amorphous solid, mp 196–198°C, [α]_D²⁷ = -22° (*c* = 0.04, MeOH). **Pharm:** Antioxidant (*in vitro*: DPPH free radical scavenger, IC₅₀ = (29±1)μmol/L, control BHA, IC₅₀ = (44±2)μmol/L; superoxide scavenger, IC₅₀ = (306±1)μmol/L, control PG IC₅₀ = (106±2)μmol/L; PEP inhibitor, IC₅₀ = (0.250±0.021)μmol/L, control Bacitracin, IC₅₀ = (129.3±3.3)μmol/L). **Source:** GANG MAO CHENG LIU *Tamarix hispida* (aerial parts). **Ref:** 4923.



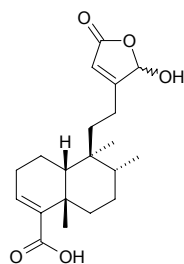
5792 (*ent*-2 α ,7 β ,13*E*) 2,7-Dihydroxy-3,13-clerodadien-15-oic acid

C₂₀H₃₂O₄ (336.48). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 1521.



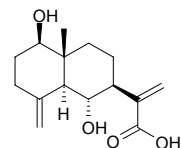
5793 (-)-12,16-Dihydroxy-*cis*-cleroda-3,13-dien-15-oic acid-15,16-olide

C₂₀H₂₈O₅ (348.44). **Source:** GE LUN BI YA BA DOU *Croton schiedeanus* (aerial parts). **Ref:** 4447.



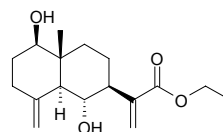
5794 1 β -6 α -Dihydroxycostic acid

C₁₅H₂₂O₄ (266.34). Colorless gum, [α]_D²⁰ = +12.0° (*c* = 0.1, MeOH). **Pharm:** Cytotoxic inactive (KB ATCC CCL17, 20μg/mL). **Source:** *Warionia saharae*. **Ref:** 5399.



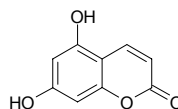
5795 1 β ,6 α -Dihydroxycostic acid ethyl ester

C₁₇H₂₆O₄ (294.39). **Pharm:** Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 50μg/mL; HeLa, CD₅₀ = 75μg/mL; OVCAR-3, CD₅₀ = 75μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8μg/mL; HeLa, CD₅₀ = 5.2μg/mL; OVCAR-3, CD₅₀ = 3μg/mL). **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0015%dw). **Ref:** 4720.



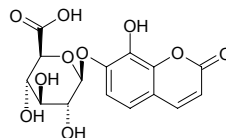
5796 5,7-Dihydroxycoumarin

C₉H₆O₄ (178.15). **Pharm:** EBV-EA inhibitor (TPA-induced, IC₅₀ = 477 Mol ratio/32 pmol TPA, control β-Carotene, IC₅₀ = 400 Mol ratio/32 pmol TPA). **Source:** YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). **Ref:** 5255.



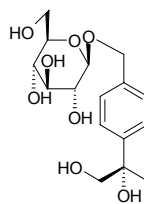
5797 7,8-Dihydroxycoumarin-7-*O*- β -*D*-glucuronide

C₁₅H₁₄O₁₀ (354.27). Brown solid, [α]_D²⁰ = -75.11° (*c* = 1.35, MeOH). **Source:** BIAN TAI *Bazzania trilobata*. **Ref:** 3860.



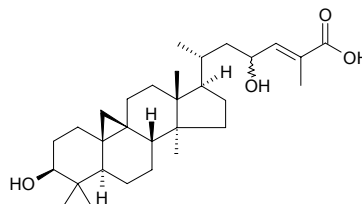
5798 (8*S*)-8,9-Dihydroxycuminyl β -*D*-glucopyranoside

C₁₆H₂₄O₈ (344.36). Amorphous powder, [α]_D²² = -31° (*c* = 0.4, MeOH). **Source:** ZI RAN QIN *Cuminum cyminum* (fruit). **Ref:** 4243.



5799 3 β ,23(*R* or *S*)-dihydroxycycloart-24-en-26-oic acid

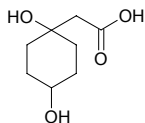
C₃₀H₄₈O₄ (472.71). Shining crystals (CHCl₃-MeOH), mp 279–281° [α]_D³⁰ = +49° (*c* = 0.52, CHCl₃). **Source:** MANG GUO *Mangifera indica*. **Ref:** 1868.



5800 2-(1,4-Dihydroxycyclohexanyl)-acetic acid

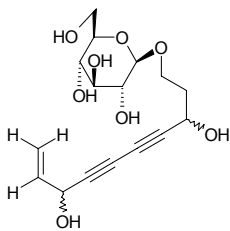
$C_8H_{14}O_4$ (174.20). Colorless snow-like crystals (MeOH-H₂O), mp 163–165°C.

Source: MA YE QIAN LI GUANG *Senecio cannabinifolius*. Ref: 4809.

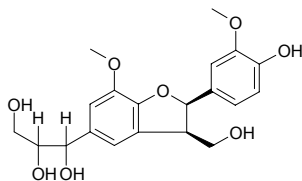
**5801 3(ζ),8(ζ)-Dihydroxydec-9-en-4,6-yne-1-O-β-D-glucopyranoside**

$C_{16}H_{22}O_8$ (342.35). Pale yellow oil, $[\alpha]_D^{25} = -45.3^\circ$ ($c = 0.75$, CH₃OH). Pharm:

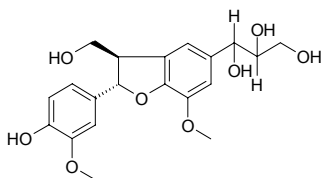
12-Lipoxygenase inhibitor (10μg/mL, InRt = 8.11%; 30μg/mL, InRt = 25.81%; control Baicalein, 10μg/mL, InRt = 56.23%). Source: DAN ZI HAO *Artemisia monosperma*. Ref: 5249.

**5802 erythro-Dihydroxydehydrodiconiferyl alcohol**

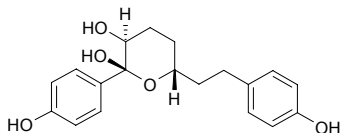
$C_{20}H_{24}O_8$ (392.41). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**5803 threo-Dihydroxydehydrodiconiferyl alcohol**

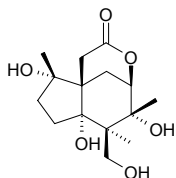
$C_{20}H_{24}O_8$ (392.41). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**5804 (5S,6S)-5,6-Dihydroxy-4''-de-O-methylcentrolobine**

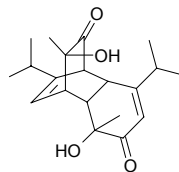
$C_{19}H_{22}O_5$ (330.38). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00025%^[3035]; yield = 0.00118%^[3042]). Ref: 3035, 3042.

**5805 1,6-Dihydroxy-3-deoxymynwanensin**

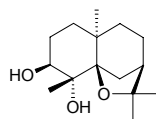
$C_{15}H_{24}O_6$ (300.35). Source: *Illicium merrillianum* (pericarp). Ref: 4257.

**5806 8,12-Dihydroxydielmentha-5,9-diene-7,11-dione**

$C_{20}H_{28}O_4$ (332.44). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4298.

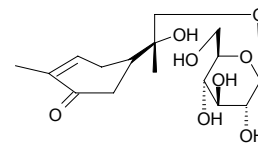
**5807 3,4-Dihydroxydihydroagarofuran**

$C_{15}H_{26}O_3$ (254.37). mp 176°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 6, 13.

**5808 (4S,8S)-8,9-Dihydroxy-8,9-dihydrocarvone 9-O-β-D-glucopyranoside**

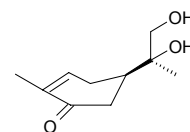
$C_{16}H_{26}O_8$ (346.38). Amorphous powder, $[\alpha]_D^{24} = -17^\circ$ ($c = 1.4$, MeOH).

Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

**5809 (4S,8R)-8,9-Dihydroxy-8,9-dihydrocarvone**

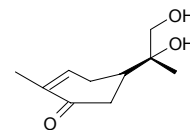
$C_{10}H_{16}O_3$ (184.24). Amorphous powder, $[\alpha]_D^{25} = -26^\circ$ ($c = 0.1$, MeOH).

Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.

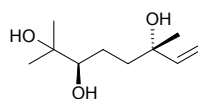
**5810 (4S,8S)-8,9-Dihydroxy-8,9-dihydrocarvone**

$C_{10}H_{16}O_3$ (184.24). Amorphous powder, $[\alpha]_D^{25} = -7^\circ$ ($c = 0.2$, MeOH). Source:

GE LU ZI *Carum carvi* (fruit), SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4153, 4177.

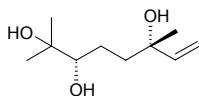
**5811 (3S,6R)-6,7-Dihydroxy-6,7-dihydrolinalool**

$C_{10}H_{20}O_3$ (188.27). Amorphous powder, $[\alpha]_D^{21} = +22^\circ$ ($c = 0.1$, CHCl₃), $[\alpha]_D^{21} = +24^\circ$ ($c = 0.2$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

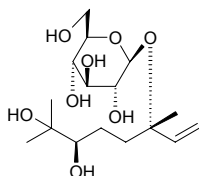


5812 (3S,6S)-6,7-Dihydroxy-6,7-dihydrolinalool

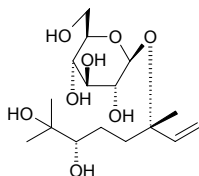
$C_{10}H_{20}O_3$ (188.27). Amorphous powder, $[\alpha]_D^{21} = -29^\circ$ ($c = 0.3$, $CHCl_3$), $[\alpha]_D^{21} = -15^\circ$ ($c = 0.3$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**5813 (3S,6R)-6,7-Dihydroxy-6,7-dihydrolinalool-3-O-β-D-glucopyranoside**

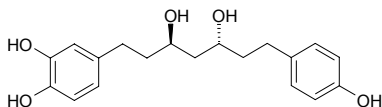
$C_{16}H_{30}O_8$ (350.41). Amorphous powder, $[\alpha]_D^{21} = +6^\circ$ ($c = 0.1$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**5814 (3S,6S)-6,7-Dihydroxy-6,7-dihydrolinalool-3-O-β-D-glucopyranoside**

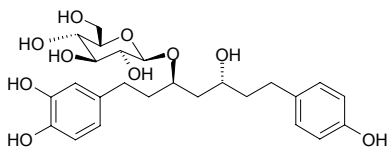
$C_{16}H_{30}O_8$ (350.41). Amorphous powder, $[\alpha]_D^{21} = -27^\circ$ ($c = 1.0$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**5815 3,5-Dihydroxy-1-(3,4-dihydroxyphenyl)-7-(4-hydroxyphenyl)heptane**

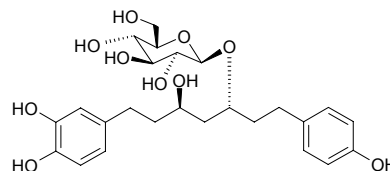
$C_{19}H_{24}O_5$ (332.4). Viscous syrup, $[\alpha]_D^{23} = +1.7^\circ$ ($c = 0.12$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} = 2.1 \mu g/mL$; HSC-2, $IC_{50} = 54 \mu g/mL$; HGF, $IC_{50} = 162 \mu g/mL$; control Etoposide: HL-60, $IC_{50} = 0.2 \mu g/mL$; HSC-2, $IC_{50} = 24 \mu g/mL$; HGF, $IC_{50} > 200 \mu g/mL$). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0052%dw). Ref: 4609.

**5816 (3R,5R)-3,5-Dihydroxy-1-(3,4-dihydroxyphenyl)-7-(4-hydroxyphenyl)heptane 3-O-β-D-glucopyranoside**

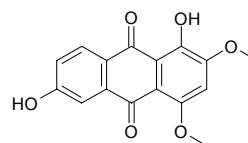
$C_{25}H_{34}O_{10}$ (494.54). Amorphous solid, $[\alpha]_D^{25} = -12.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} = 6.2 \mu g/mL$; HSC-2, $IC_{50} = 158 \mu g/mL$; HGF, $IC_{50} = 220 \mu g/mL$; control Etoposide: HL-60, $IC_{50} = 0.2 \mu g/mL$; HSC-2, $IC_{50} = 24 \mu g/mL$; HGF, $IC_{50} > 200 \mu g/mL$). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0014%dw). Ref: 4609.

**5817 (3R,5R)-3,5-Dihydroxy-1-(3,4-dihydroxyphenyl)-7-(4-hydroxyphenyl)heptane 5-O-β-D-glucopyranoside**

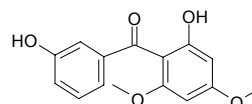
$C_{25}H_{34}O_{10}$ (494.54). Amorphous solid, $[\alpha]_D^{25} = -12.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} = 5.5 \mu g/mL$; HSC-2, $IC_{50} = 155 \mu g/mL$; HGF, $IC_{50} > 250 \mu g/mL$; control Etoposide: HL-60, $IC_{50} = 0.2 \mu g/mL$; HSC-2, $IC_{50} = 24 \mu g/mL$; HGF, $IC_{50} > 200 \mu g/mL$). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00027%dw). Ref: 4609.

**5818 1,6-Dihydroxy-2,4-dimethoxyanthraquinone V**

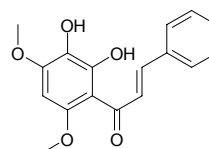
$C_{16}H_{12}O_6$ (300.27). Yellow acicular crystals, mp 205–207°C. Source: BA JI TIAN *Morinda officinalis*. Ref: 228, 8.

**5819 6,3'-Dihydroxy-2,4-dimethoxybenzophenone**

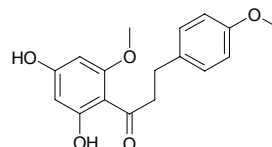
$C_{15}H_{14}O_5$ (274.28). Source: SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.0022%dw). Ref: 4708.

**5820 2',3'-Dihydroxy-4',6'-dimethoxychalcone**

$C_{17}H_{16}O_5$ (300.31). Red crystals, mp 124–126°C. Source: TIAN ZI YU PAN *Uvaria dulcis* (leaf). Ref: 3928.

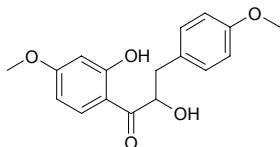
**5821 2',4'-Dihydroxy-4,6'-dimethoxychalcone**

$C_{17}H_{16}O_5$ (302.33). Colorless needles (MeOH), mp 171°C, mp 175–176°C. Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

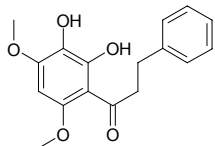


5822 *α*-2'-Dihydroxy-4,4'-dimethoxydihydrochalcone

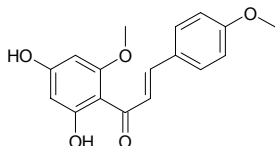
$C_{17}H_{18}O_5$ (302.33). Colorless needles (C_6H_6 -EtOAc), mp 94°C, $[\alpha]_D^{25} = -76.84^\circ$ ($c = 0.001015$, MeOH). Source: MENG MAI ROU DOU KOU *Myristica malabarica* (heartwood). Ref: 3906.

**5823 2',3'-Dihydroxy-4',6'-dimethoxydihydrochalcone**

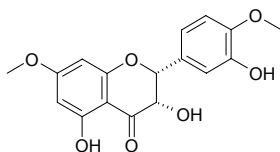
$C_{17}H_{18}O_5$ (302.33). Light yellow crystals, mp 141~142°C. Source: TIAN ZI YU PAN *Uvaria dulcis* (leaf). Ref: 3928.

**5824 2',4'-Dihydroxy-4,6'-dimethoxydihydrochalcone**

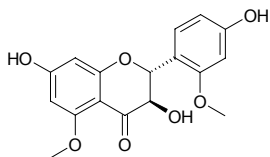
$C_{17}H_{16}O_5$ (300.31). Yellow plates (MeOH), mp 161~163°C, mp 158~159°C. Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**5825 (2*R*,3*S*)-(+)-3',5-Dihydroxy-4',7-dimethoxydihydroflavonol**

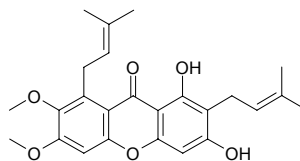
$C_{17}H_{16}O_7$ (332.31). Colorless powder from MeOH, mp 183.5~184.0°C, $[\alpha]_D^{24} = 156^\circ$ ($c = 0.2$, MeOH). Source: HOU PI SHU *Lansea grandis* [Syn. *Lansea coromandelica*]. Ref: 739.

**5826 (2*R*,3*R*)-4',7-Dihydroxy-2',5-dimethoxydihydroflavonol**

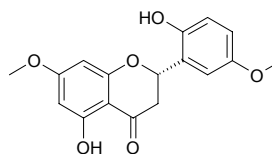
$C_{17}H_{16}O_7$ (332.31). White powder, $[\alpha]_D^{25} = +82.7^\circ$ ($c = 0.12$, MeOH). Pharm: Cytotoxic (Bel7402, $ED_{50} > 10\mu\text{g/mL}$, control Camptothecin, $ED_{50} = 0.06\mu\text{g/mL}$; BGC823, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09\mu\text{g/mL}$; HCT8, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.14\mu\text{g/mL}$; A549, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09\mu\text{g/mL}$; MCF7, $ED_{50} > 10\mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.01\mu\text{g/mL}$). Source: GOU JI *Cudrania cochinchinensis* (root). Ref: 5338.

**5827 1,3-Dihydroxy-6,7-dimethoxy-2,8-diprenylxanthone**

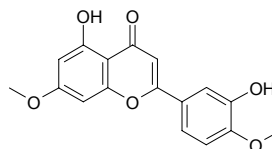
$C_{25}H_{28}O_6$ (424.50). Yellow powder, mp 91~92°C. Pharm: Cytotoxic (hmn small cell lung cancer NCI-H187 cell line, $IC_{50} = (3.69\pm 1.27)\mu\text{g/mL}$, control Ellipticine, $IC_{50} = (0.35\pm 0.15)\mu\text{g/mL}$). Source: QIAO MU ZHUANG HUANG NIU MU *Cratogeomys arborescens* (stem cortex). Ref: 5061.

**5828 (2*S*)-5,2'-Dihydroxy-7,5'-dimethoxyflavanone**

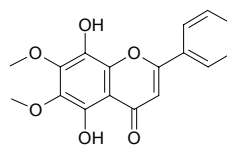
$C_{17}H_{16}O_6$ (316.31). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = (28.0\pm 5.0)\mu\text{mol/L}$, control Galanthamine, $IC_{50} = (32.2\pm 2.5)\mu\text{mol/L}$)^[4333]; BChE inhibitor (*in vitro*, $IC_{50} = (7.9\pm 5.0)\mu\text{mol/L}$, control Galanthamine, $IC_{50} = (163.0\pm 5.0)\mu\text{mol/L}$). Source: CU YING MAO DIAN ZI CAO *Onosma hispida* (whole herb). Ref: 4333.

**5829 5,3'-Dihydroxy-7,4'-dimethoxyflavone**

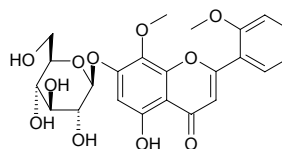
[32174-62-2] $C_{17}H_{14}O_6$ (314.30). Source: CHI YANG *Alnus japonica*. Ref: 1521.

**5830 5,8-Dihydroxy-6,7-dimethoxyflavone**

$C_{17}H_{14}O_6$ (314.30). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

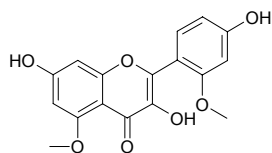
**5831 5,7-Dihydroxy-8,2'-dimethoxyflavone-7-O-β-D-glucopyranoside**

$C_{23}H_{24}O_{11}$ (476.44). Yellow needles (MeOH), mp 248~249°C (dec), $[\alpha]_D^{25} = -252.5^\circ$ ($c = 0.075$, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root; yield = 0.0027%dw). Ref: 2072.

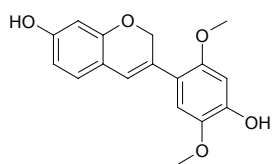


5832 4',7-Dihydroxy-2',5-dimethoxyflavonol

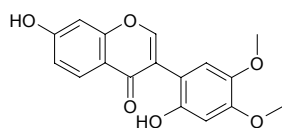
$C_{17}H_{14}O_7$ (330.30). Yellow powder. **Pharm:** Cytotoxic (Bel7402, $ED_{50} > 10 \mu\text{g/mL}$, control Camptothecin, $ED_{50} = 0.06 \mu\text{g/mL}$; BGC823, $ED_{50} > 10 \mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09 \mu\text{g/mL}$; HCT8, $ED_{50} > 10 \mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.14 \mu\text{g/mL}$; A549, $ED_{50} > 10 \mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.09 \mu\text{g/mL}$; MCF7, $ED_{50} > 10 \mu\text{g/mL}$, Camptothecin, $ED_{50} = 0.01 \mu\text{g/mL}$). **Source:** GOU JI *Cudrania cochinchinensis* (root). **Ref:** 5338.

**5833 7,4'-Dihydroxy-2',5'-dimethoxyisoflav-3-ene**

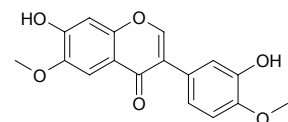
$C_{17}H_{16}O_5$ (300.31). Amorphous powder. **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, $IC_{50} = (27.7 \pm 1.8) \mu\text{mol/L}$, control Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{mol/L}$; D6 strain, $IC_{50} = (18.2 \pm 1.1) \mu\text{mol/L}$, Quinine, $IC_{50} = (0.042 \pm 0.002) \mu\text{mol/L}$). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (root cortex). **Ref:** 5420.

**5834 2',7-Dihydroxy-4',5'-dimethoxyisoflavone**

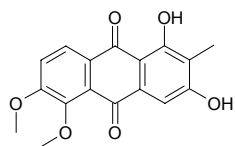
$C_{17}H_{14}O_6$ (314.30). Yellow crystals from methanol, mp 238–240°C. **Pharm:** Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), $100 \mu\text{mol/L}$, InRt = $(25.9 \pm 1.6)\%$, weak, control Silybin, $100 \mu\text{mol/L}$, InRt = $(77.0 \pm 5.5)\%$)^[4095]. **Source:** GUANG BU DING GONG TENG *Erycibe expansa*, JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 716, 4095.

**5835 3',7-Dihydroxy-4',6-dimethoxyisoflavone**

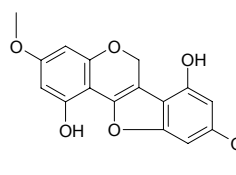
$C_{17}H_{14}O_6$ (314.30). **Source:** XIANG DOU *Dipteryx odorata* (callus and root), *Glycyrrhiza* sp. **Ref:** 2431, 4475.

**5836 1,3-Dihydroxy-5,6-dimethoxy-2-methyl-9,10-anthraquinone**

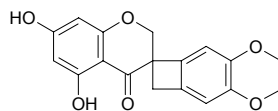
$C_{17}H_{14}O_6$ (314.30). Yellow powder (acetone), mp $> 228^\circ\text{C}$. **Source:** NAN SHAN HUA *Prismatomeris tetrandra* (root). **Ref:** 4521.

**5837 1,7-Dihydroxy-3,9-dimethoxy pterocarpene**

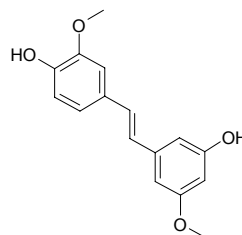
$C_{17}H_{14}O_6$ (314.30). Colorless acicular crystals, mp 210–214°C. **Source:** HONG HUA YAN HUANG QI *Hedysarum multijugum*. **Ref:** 2224.

**5838 5,7-Dihydroxy-3',4'-dimethoxyspiro{2H-1-benzopyran-7'-bicyclo[4.2.0]octa[1,3,5]-trien}-4-one**

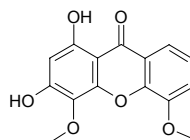
$C_{18}H_{16}O_6$ (328.32). Yellow gum, $[\alpha]_D^{25} = +56.0^\circ$ ($c = 0.035$, MeOH). **Source:** HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). **Ref:** 3368.

**5839 3',4-Dihydroxy-3,5'-dimethoxystilbene**

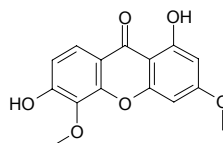
$C_{16}H_{16}O_4$ (272.30). Brown oil. **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.

**5840 1,3-Dihydroxy-4,5-dimethoxyxanthone**

[22804-53-1] $C_{15}H_{12}O_6$ (288.26). mp 274–275°C. **Source:** ZHANG YA CAI *Swertia pseudochinensis*. **Ref:** 6.

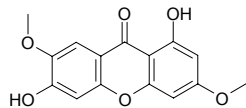
**5841 1,6-Dihydroxy-3,5-dimethoxyxanthone**

$C_{15}H_{12}O_6$ (288.26). **Pharm:** Cytotoxic (P_{388} $ED_{50} = 4.74 \mu\text{g/mL}$, control Mithramycin $ED_{50} = 0.06 \mu\text{g/mL}$, HT29 $ED_{50} = 7.28 \mu\text{g/mL}$, Mithramycin $ED_{50} = 0.08 \mu\text{g/mL}$). **Source:** TAI WAN LV DAO TENG HUANG *Garcinia linii*. **Ref:** 4094.

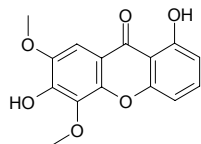


5842 1,6-Dihydroxy-3,7-dimethoxyxanthone

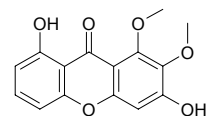
$C_{15}H_{12}O_6$ (288.26). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 2.

**5843 1,6-Dihydroxy-5,7-dimethoxyxanthone**

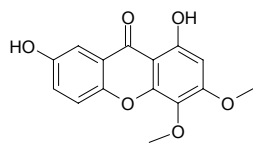
$C_{15}H_{12}O_6$ (288.26). Pharm: Cytotoxic (P_{388} ED_{50} = 3.25 $\mu\text{g/mL}$, control Mithramycin ED_{50} = 0.06 $\mu\text{g/mL}$, HT29 ED_{50} = 5.48 $\mu\text{g/mL}$, Mithramycin ED_{50} = 0.08 $\mu\text{g/mL}$). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 4094.

**5844 1,6-Dihydroxy-7,8-dimethoxyxanthone**

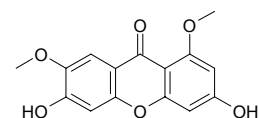
$C_{15}H_{12}O_6$ (288.26). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26, MIC_{80} = 16 $\mu\text{g/mL}$, control Amphotericin B, MIC_{80} = 8 $\mu\text{g/mL}$; *Aspergillus flavus* IHEM37.19, MIC_{80} = 8 $\mu\text{g/mL}$, Amphotericin B, MIC_{80} = 8 $\mu\text{g/mL}$; *Aspergillus niger* IHEM2951, MIC_{80} = 31 $\mu\text{g/mL}$, Amphotericin B, MIC_{80} = 16 $\mu\text{g/mL}$; *Aspergillus terreus* 5029.2000, MIC_{80} = 62 $\mu\text{g/mL}$; Amphotericin B, MIC_{80} = 16 $\mu\text{g/mL}$; *Candida albicans* ATCC663.90, MIC_{80} = 62 $\mu\text{g/mL}$; Amphotericin B, MIC_{80} = 1 $\mu\text{g/mL}$). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). Ref: 4995.

**5845 1,7-Dihydroxy-3,4-dimethoxyxanthone**

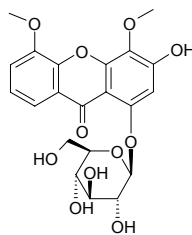
$C_{15}H_{12}O_6$ (288.26). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

**5846 3,6-Dihydroxy-1,7-dimethoxyxanthone**

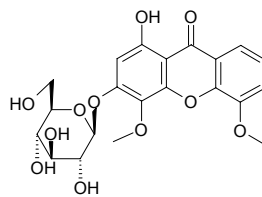
$C_{15}H_{12}O_6$ (288.26). Yellow powder, mp 251–252°C (dec). Source: HUANG HAI TANG *Hypericum ascyron*. Ref: 2398.

**5847 1,3-Dihydroxy-4,5-dimethoxyxanthone-1-O-β-D-glucopyranoside**

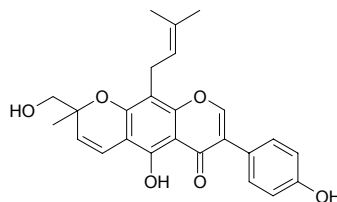
$C_{21}H_{22}O_{11}$ (450.40). mp 269–274°C (dec). Source: ZHANG YA CAI *Swertia pseudochinensis*. Ref: 6.

**5848 1,3-Dihydroxy-4,5-dimethoxyxanthone-3-O-β-D-glucopyranoside**

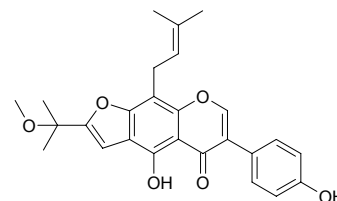
$C_{21}H_{22}O_{11}$ (450.40). mp 264–266°C. Source: ZHANG YA CAI *Swertia pseudochinensis*. Ref: 6.

**5849 5,4'-Dihydroxy-8-(3,3-dimethylallyl)-2''-hydroxymethyl-2''-methylpyrano[5,6:6,7]isoflavone**

$C_{25}H_{24}O_6$ (420.47). Yellow amorphous powder, mp 205–207°C, $[\alpha]_D^{20}$ = -7.8° (c = 0.1, MeOH). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex: yield = 0.000024%fw). Ref: 2269.

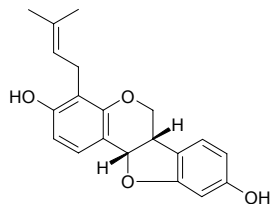
**5850 5,4'-Dihydroxy-8-(3,3-dimethylallyl)-2''-methoxyisopropylfurano[4,5:6,7]isoflavone**

$C_{26}H_{26}O_6$ (434.49). Yellow amorphous powder, mp 101–102°C. Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex: yield = 0.000012%fw). Ref: 2269.

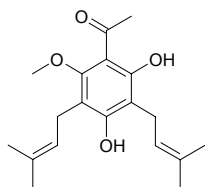


5851 3,9-Dihydroxy-4-(3,3-dimethylallyl)[6aR,11aR]-pterocarpane

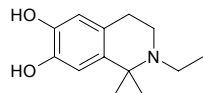
$C_{20}H_{20}O_4$ (324.38). Yellow gum, $[\alpha]_D^{25} = -41^\circ$ ($c = 0.3$, MeOH). **Pharm:** Cytotoxic (KB, $IC_{50} = (60.8 \pm 8.0) \mu\text{mol/L}$, control Helenalin, $IC_{50} = (0.64 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (6.0 \pm 0.5) \mu\text{mol/L}$; Mono-Mac-6, $IC_{50} > 75 \mu\text{mol/L}$, Helenalin, $IC_{50} = (3.1 \pm 0.3) \mu\text{mol/L}$; Jurkat-T, $IC_{50} = (61.1 \pm 7.7) \mu\text{mol/L}$, Helenalin, $IC_{50} = (1.14 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (9.1 \pm 0.8) \mu\text{mol/L}$). **Source:** *Bituminaria morisiana* (leaf). **Ref:** 5077.

**5852 1-[2',4'-Dihydroxy-3',5'-di-(3''-methylbut-2''-enyl)-6'-methoxy]-phenylethanone**

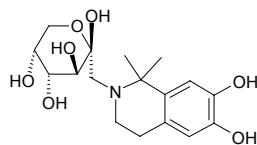
$C_{19}H_{26}O_4$ (318.42). **Source:** SHA TANG MU *Acronychia pedunculata*. **Ref:** 2373.

**5853 6,7-Dihydroxy-1,1-dimethyl-N-ethyl-1,2,3,4-tetrahydroisoquinoline**

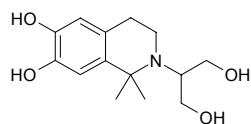
$C_{13}H_{19}NO_2$ (221.30). Amorphous brownish solid, 184° dec (MeOH), $[\alpha]_D^{25} = +13^\circ$ ($c = 0.70$, MeOH). **Source:** GONG XING MA DOU LING *Aristolochia arcuata*. **Ref:** 2037.

**5854 6,7-Dihydroxy-1,1-dimethyl-N-(6'-fructopyranosyl)-1,2,3,4-tetrahydroisoquinoline**

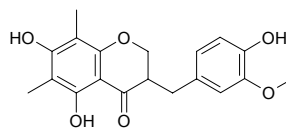
$C_{17}H_{25}NO_7$ (355.39). Amorphous brownish solid, 105° dec (MeOH), $[\alpha]_D^{25} = -44^\circ$ ($c = 0.26$, MeOH). **Source:** GONG XING MA DOU LING *Aristolochia arcuata*. **Ref:** 2037.

**5855 6,7-Dihydroxy-1,1-dimethyl-N-(2'-glyceryl)-1,2,3,4-tetrahydroisoquinoline**

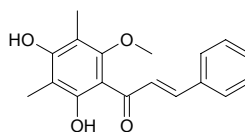
$C_{14}H_{21}NO_4$ (267.33). Amorphous brownish solid, 174° dec. (MeOH), $[\alpha]_D^{25} = -11^\circ$ ($c = 0.72$, MeOH). **Source:** GONG XING MA DOU LING *Aristolochia arcuata*. **Ref:** 2037.

**5856 5,7-Dihydroxy-6,8-dimethyl-3-(4'-hydroxy-3'-methoxybenzyl)chroman-4-one**

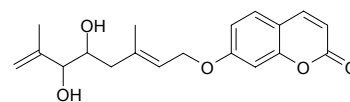
$C_{19}H_{20}O_6$ (344.37). **Source:** MAI DONG *Ophiopogon japonicus*. **Ref:** 2044.

**5857 4',6'-Dihydroxy-3',5'-dimethyl-2'-methoxychalcone**

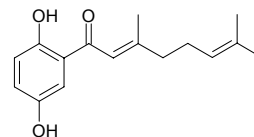
$C_{18}H_{18}O_4$ (298.34). **Source:** YANG PU TAO YE *Syzygium samarangense*. **Ref:** 4100.

**5858 7-(5',6'-Dihydroxy-3',7'-dimethylocta-2',7'-dienyloxy)-coumarin**

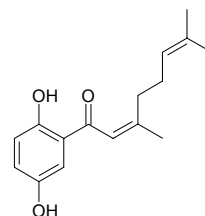
$C_{19}H_{22}O_5$ (330.38). **Pharm:** Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**5859 1,4-Dihydroxy-2-(3',7'-dimethyl-1'-oxo-2'-E,6'-octadienyl)benzene**

$C_{16}H_{20}O_3$ (260.34). White amorphous powder. **Pharm:** Antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 1.0 μg , control Miconazole, MA = 1.0 μg ; *Cladosporium sphaerospermum*, MA = 1.0 μg , Miconazole, MA = 1.0 μg). **Source:** CU YE MAI HU JIAO *Piper crassinervium*. **Ref:** 3440.

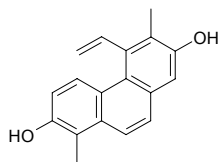
**5860 1,4-Dihydroxy-2-(3',7'-dimethyl-1'-oxo-2'-Z,6'-octadienyl)benzene**

$C_{16}H_{20}O_3$ (260.34). White amorphous powder. **Pharm:** Antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 5.0 μg , control Miconazole, MA = 1.0 μg ; *Cladosporium sphaerospermum*, MA = 10.0 μg , Miconazole, MA = 1.0 μg). **Source:** CU YE MAI HU JIAO *Piper crassinervium*. **Ref:** 3440.

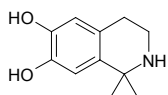


5861 2,7-Dihydroxy-1,6-dimethylpyrene

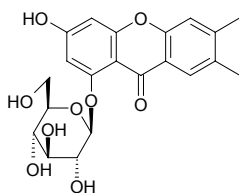
$C_{18}H_{16}O_2$ (264.33). Source: JIAN DENG XIN CAO *Juncus acutus*. Ref: 1965.

**5862 6,7-Dihydroxy-1,1-dimethyl-1,2,3,4-tetrahydroisoquinoline**

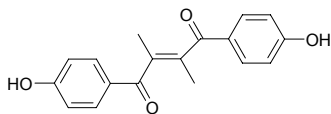
$C_{11}H_{15}NO_2$ (193.25). Amorphous brownish solid, 250° dec (MeOH), $[\alpha]_D^{25} = +13^\circ$ ($c = 0.61$, Me₂CO). Source: GONG XING MA DOU LING *Aristolochia arcuata*. Ref: 2037.

**5863 1,3-Dihydroxy-6,7-dimethylxanthone-1-O-β-D-glucoside**

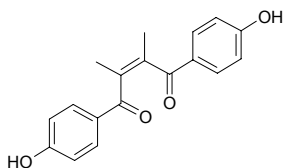
$C_{21}H_{22}O_9$ (418.40). Yellowish massive crystals, mp 262–265°C. Source: HE SHOU WU *Polygonum multiflorum*. Ref: 292.

**5864 (E)-4,4'-Dihydroxy-7,7'-dioxolign-8(8')-ene**

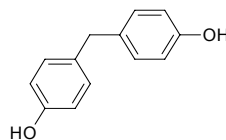
$C_{18}H_{16}O_4$ (296.33). Off-white powder. Pharm: Antioxidant inactive (Takamatsu DCFH method, myelomonocytic HL-60 cells, control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$); cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 50.0 \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$). Source: SAN CHI LA RUI A *Larrea tridentata* (leaf). Ref: 3850.

**5865 (Z)-4,4'-Dihydroxy-7,7'-dioxolign-8(8')-ene**

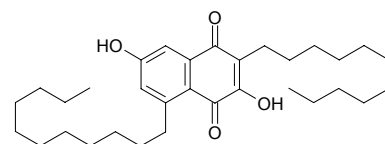
$C_{18}H_{16}O_4$ (296.33). Pharm: Antioxidant inactive (Takamatsu DCFH method, myelomonocytic HL-60 cells, control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$); cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 50.0 \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$). Source: SAN CHI LA RUI A *Larrea tridentata* (leaf). Ref: 3850.

**5866 4,4'-Dihydroxydiphenyl methane**

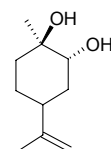
[620-92-8] $C_{13}H_{12}O_2$ (200.24). Source: TIAN MA *Gastrodia elata*. Ref: 2.

**5867 3,7-Dihydroxy-2,5-diundecylnaphthoquinone**

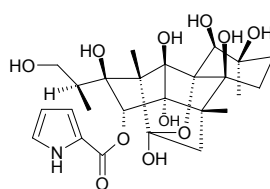
$C_{32}H_{50}O_4$ (498.75). Yellow powder, mp 75–77°C. Pharm: Cytotoxic inactive (*in vitro*, HL-60, $IC_{50} > 100 \mu\text{g/mL}$; Bel7402, $IC_{50} > 100 \mu\text{g/mL}$; HeLa, $IC_{50} > 100 \mu\text{g/mL}$; U937, $IC_{50} > 100 \mu\text{g/mL}$; control Colchicine, HL-60, $IC_{50} = 1.6 \mu\text{g/mL}$; Bel7402, $IC_{50} = 0.4 \mu\text{g/mL}$; HeLa, $IC_{50} = 0.1 \mu\text{g/mL}$; U937, $IC_{50} = 0.1 \mu\text{g/mL}$). Source: LA ZHU GUO *Aegiceras corniculatum* (stem and twig; yield = 0.000025%). Ref: 4746.

**5868 1,2-Dihydroxy-8(9)-ene-p-menthane**

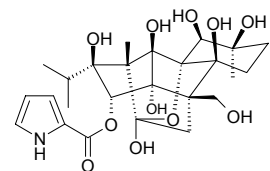
$C_{10}H_{18}O_2$ (170.25). Yellowish oil. Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2158.

**5869 (13S)-9,18-Dihydroxy-9-epi-10-epi-ryanodine**

$C_{25}H_{35}NO_{11}$ (525.56). Crystals (CHCl₃:Me₂CO = 3:1), mp 190°C, $[\alpha]_D = +10^\circ$ ($c = 0.35$). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 390 \text{ nmol/L}$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

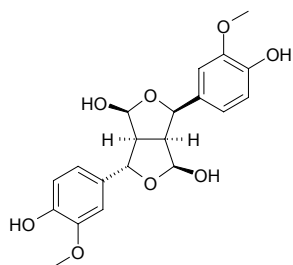
**5870 9,20-Dihydroxy-9-epi-10-epi-ryanodine**

$C_{25}H_{35}NO_{11}$ (525.56). Crystals (CHCl₃:MeOH = 3:1), mp 178°C, $[\alpha]_D = +4^\circ$ ($c = 0.1$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

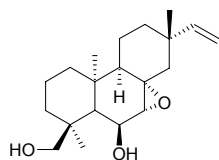


5871 4,8-Dihydroxyepipinoresinol

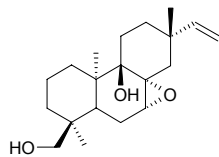
$C_{20}H_{22}O_8$ (390.39). Amorphous powder, mp 128–130°C, $[\alpha]_D^{27} = +36.8^\circ$ ($c = 0.29$, MeOH). Source: YUN NAN TIE SHAN *Tsuga dumosa* (heartwood). Ref: 4568.

**5872 6β,18-Dihydroxy-7α,8α-epoxy-9-epi-ent-pimara-15-ene**

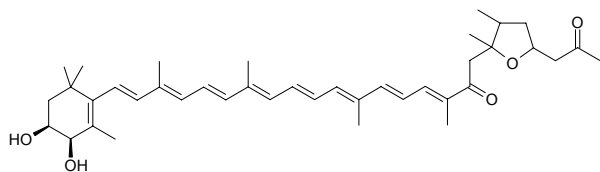
$C_{20}H_{32}O_3$ (320.48). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.

**5873 9β,18-Dihydroxy-7α,8α-epoxy-9-epi-ent-pimara-15-ene**

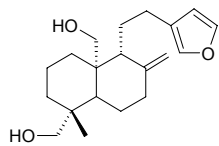
$C_{20}H_{32}O_3$ (320.48). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.

**5874 3,4-Dihydroxy-3',6'-epoxy-1',2',5',6'7',8'-hexahydro-6'-methyl-16'-nor-β,φ-carotene-1',8'-dione**

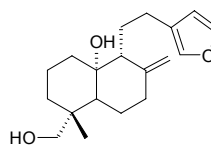
$C_{40}H_{56}O_5$ (616.89). Reddish solid. Source: MU LI (Oyster) *Crassostrea gigas*. Ref: 4515.

**5875 19,20-Dihydroxy-15,16-epoxy-8(17),13(16),14-ent-labdatriene**

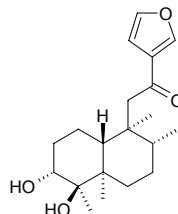
$C_{20}H_{30}O_3$ (318.46). Colorless oil, $[\alpha]_D^{25} = -20.4^\circ$ ($c = 0.38$, $CHCl_3$). Pharm: Phytotoxin (*Raphidocelis subcapitata*, $IC_{50} = 18.45\mu\text{mol/L}$). Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**5876 10α,19-Dihydroxy-15,16-epoxy-8(17),13(16),14-nor-ent-labdatriene**

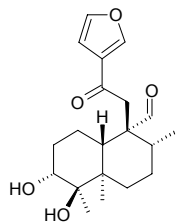
$C_{19}H_{28}O_3$ (304.43). Colorless oil, $[\alpha]_D^{25} = -4.1^\circ$ ($c = 0.21$, $CHCl_3$). Pharm: Phytotoxin (*Raphidocelis subcapitata*, $IC_{50} = 2.84\mu\text{mol/L}$). Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**5877 3α,4β-Dihydroxy-15,16-epoxy-12-oxo-cleroda-13(16),14-dien**

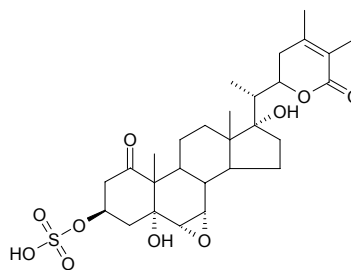
$C_{20}H_{30}O_4$ (334.46). Source: *Croton hovorum*. Ref: 4552.

**5878 3α,4β-Dihydroxy-15,16-epoxy-12-oxo-cleroda-13(16),14-dien-9-ol**

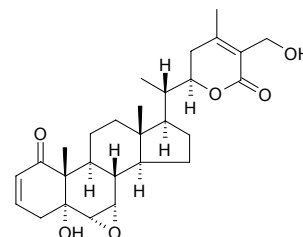
$C_{20}H_{28}O_5$ (348.44). Source: *Croton hovorum*. Ref: 4552.

**5879 5α,17α-Dihydroxy-6α,7α-epoxy-1-oxo-3β-O-sulfate-witha-24-enolide**

$C_{28}H_{40}O_{10}S$ (568.69). mp 158°C, $[\alpha]_D^{30} = +59.40^\circ$ ($c = 0.25$, MeOH). Source: CUI MIAN SHUI QIE *Withania somnifera* (leaf). Ref: 5329.

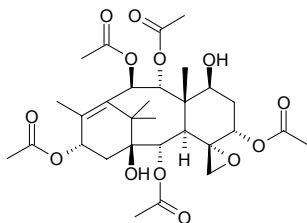
**5880 (20S,22R)-5α,27-Dihydroxy-6α,7α-epoxy-1-oxowitha-2,24-dienolide**

$C_{28}H_{38}O_6$ (470.61). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

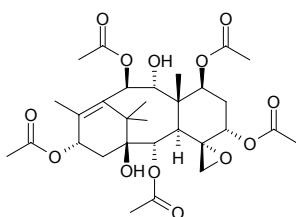


5881 1 β ,7 β -Dihydroxy-4 β ,20-epoxy-2 α ,5 α ,9 α ,10 β ,13 α -pentaacetoxytax-11-ene

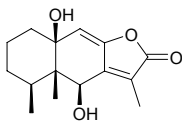
C₃₀H₄₂O₁₃ (610.66). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**5882 1 β ,9 α -Dihydroxy-4 β ,20-epoxy-2 α ,5 α ,7 β ,10 β ,13 α -penta-acetoxytax-11-ene**

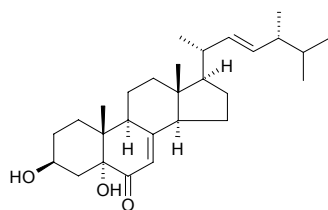
C₃₀H₄₂O₁₃ (610.66). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**5883 6 β ,10 β -Dihydroxyeremophila-7(11),8(9)-dien-12,8-olide**

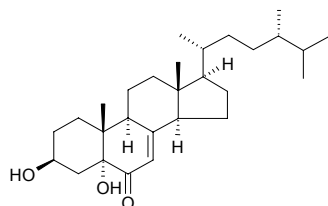
C₁₅H₂₀O₄ (264.32). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**5884 3 β ,5 α -Dihydroxy-(22E)-ergosta-7,22-dien-6-one**

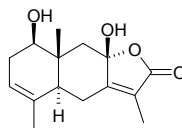
C₂₈H₄₄O₃ (428.66). Source: *Pleurotus eryngii*. Ref: 4183.

**5885 3 β ,5 α -Dihydroxyergost-7-en-6-one**

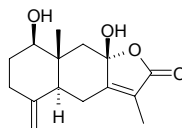
C₂₈H₄₆O₃ (430.68). Colorless amorphous solid, [α]_D³⁰ = +28.6° (c = 0.04, MeOH). Source: *Pleurotus eryngii*. Ref: 4183.

**5886 1 β ,8 β -Dihydroxyeudesman-3,7(11)-dien-8 α ,12-olide**

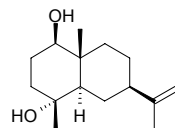
C₁₅H₂₀O₄ (264.32). White needle crystals (MeOH), mp 193–195°C. Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 60 μg/mL). Source: XIAO MEI WEI QIN *Smyrniolum olusatrum* (fruit). Ref: 5162.

**5887 1 β ,8 β -Dihydroxyeudesman-4(15),7(11)-dien-8 α ,12-olide**

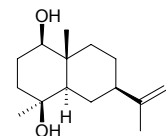
C₁₅H₂₀O₄ (264.32). White prism crystals (MeOH), mp 178–180°C. Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 65 μg/mL). Source: XIAO MEI WEI QIN *Smyrniolum olusatrum* (fruit). Ref: 5162.

**5888 1 β ,4 α -Dihydroxyeudesman-11-ene**

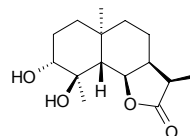
C₁₅H₂₆O₂ (238.37). [α]_D¹⁷ = -25° (c = 0.13, CHCl₃). Pharm: Cytotoxic (inhibits growth of Bel7402 cell, 0.0001 mol/L, InRt = 34.4%, control Etoposide, InRt = 96.0%). Source: YI NIAN PENG *Erigeron annuus* (aerial parts). Ref: 5073.

**5889 1 β ,4 β -Dihydroxyeudesman-11-ene**

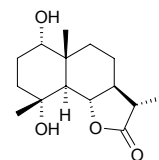
C₁₅H₂₆O₂ (238.37). Colorless oil, [α]_D¹⁷ = -29° (c = 0.13, CHCl₃). Source: YI NIAN PENG *Erigeron annuus* (aerial parts). Ref: 5073.

**5890 3 α ,4 β -Dihydroxy-5 β H,11 α H-eudesman-6,12-olide**

C₁₅H₂₄O₄ (268.36). Source: *Ferula sinaica* (leaf). Ref: 5145.

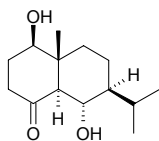
**5891 1 α ,4 α -Dihydroxyeudesman-5 α ,6 β ,7 α ,11 β H-12,6-olide**

C₁₅H₂₄O₄ (268.36). Colorless oil, [α]_D²⁵ = +31° (c = 0.5, CHCl₃). Source: JIA NA LI HAO *Artemisia canariensis*. Ref: 2332.

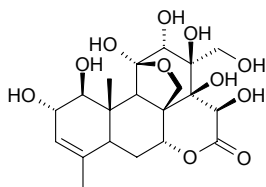


5892 (1R,5S,6S,7S,10R)-1 β ,6 α -Dihydroxyeudesman-4-one

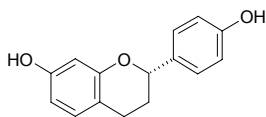
C₁₄H₂₄O₃ (240.35). Colorless oil, [α]_D¹⁷ = +25° (c = 0.13, CHCl₃). Source: YI NIAN PENG *Erigeron annuus* (aerial parts). Ref: 5073.

**5893 13 β ,21-Dihydroxyeurycomanol**

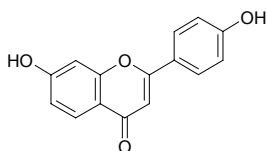
C₂₀H₂₈O₁₁ (444.44). Source: *Eurycoma* sp. Ref: 4556.

**5894 7,4'-Dihydroxyflavan**

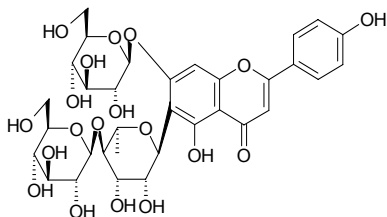
(2S)-7,4'-Dihydroxyflavan [82925-54-0] C₁₅H₁₄O₃ (242.28). Pharm: Antibacterial (phytopathogenic bacteria, *Corynebacterium betae* and *Corynebacterium fascians*); antifungal (*Botrytis cinerea*, ED₅₀ = 65 μg/mL); aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]. Source: GOU SHU *Broussonetia papyrifera*^[3090]. Ref: 658, 3090.

**5895 4',7-Dihydroxyflavone**

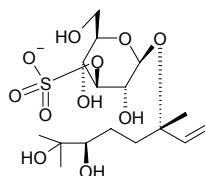
[2196-14-7] C₁₅H₁₀O₄ (254.24). Source: BAI CI HUA ZI *Sophora vicifolia*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*, YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 2, 561, 660.

**5896 5,4'-Dihydroxyflavone-6-C- β -D-glycosylrhamnoside-7-O-glycoside**

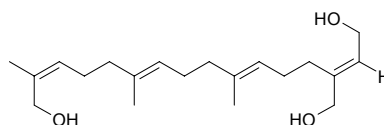
C₃₃H₄₀O₁₉ (740.68). mp 194–196°C. Source: HUANG JING *Polygonatum sibiricum*. Ref: 6.

**5897 (3S,6R)-6,7-Dihydroxy-6,7-dihydrolinalool-3-O- β -D-(3-O-Potassium sulfo)-glucopyranoside**

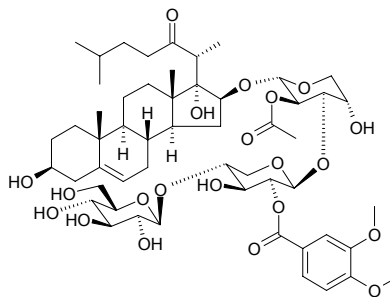
C₁₆H₂₉O₁₁S⁻ (429.47). Amorphous powder, [α]_D²¹ = -14° (c = 0.3, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**5898 (2E,6E,10E,14Z)-17,20-Dihydroxygeranylnerol**

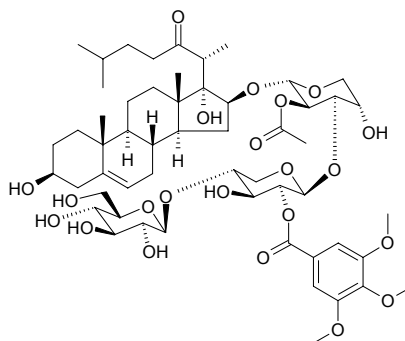
C₂₀H₃₄O₃ (322.49). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.

**5899 3 β ,17 α -Dihydroxy-16 β -[(O- β -D-glucopyranosyl-(1→4)-O-(2-O-3,4-dimethoxybenzoyl- β -D-xylopyranosyl)-(1→3)-2-O-acetyl- α -L-arabinopyranosyl)oxy]cholest-5-en-22-one**

C₅₄H₈₀O₂₁ (1065.23). Pharm: Cytotoxic (HL-60 cells, IC₅₀ = 0.016 μmol/L). Source: *Ornithogalum saundersiae* (bulb; yield = 0.00007%). Ref: 3030.

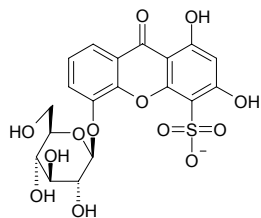
**5900 3 β ,-17 α -Dihydroxy-16 β -[(O- β -D-glucopyranosyl-(1→4)-O-(2-O-3,4,5-trimethoxybenzoyl- β -D-xylopyranosyl)-(1→3)-2-O-acetyl- α -L-arabinopyranosyl)oxy]cholest-5-en-22-one**

C₅₅H₈₂O₂₂ (1095.25). Pharm: Cytotoxic (HL-60 cells, IC₅₀ = 0.014 μmol/L). Source: *Ornithogalum saundersiae* (bulb; yield = 0.00011%). Ref: 3030.

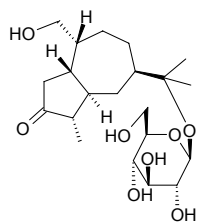


5901 1,3-Dihydroxy-5-O-β-D-glucopyranosylxanthone-4-sulfonate

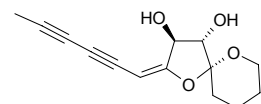
C₁₉H₁₇O₁₃S (485.40). Yellow powder, mp > 360°C, [α]_D^{31.2} = +38.10° (c = 0.033, MeOH). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 15.69 μmol/L; control VP-16, ED₅₀ = 0.064 μmol/L). **Source:** YUAN BAO CAO *Hypericum sampsonii* (whole herb). **Ref:** 3861.

**5902 (1S,4S,5R,7R,10R)-11,14-Dihydroxyguai-3-one 11-O-β-D-glucopyranoside**

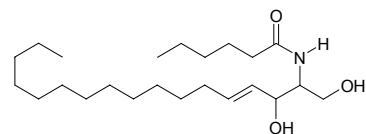
C₂₁H₃₆O₈ (416.52). Colorless needles (MeOH), mp 98–100°C, [α]_D²² = +34° (c = 0.5, MeOH). **Source:** CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). **Ref:** 4310, 4348.

**5903 (3S*,4S*,5R*)-(E)-3,4-Dihydroxy-2-(hexa-2,4-dienyliden)-1,6-dioxaspiro-(4,5)decane**

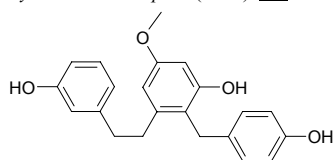
C₁₄H₁₆O₄ (248.28). [α]_D²⁴ = -19.8° (c = 0.22, EtOH). **Source:** JIN SE MU JU *Matricaria aurea*. **Ref:** 2301.

**5904 1,3-Dihydroxy-2-hexanoylamino-(4E)-heptadecene**

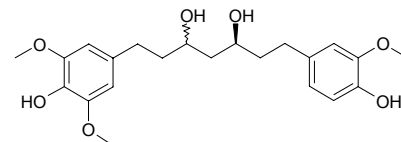
C₂₃H₄₆NO₃ (383.62). Colorless gummy solid, [α]_D²⁵ = -19.1° (c = 0.021, pyridine). **Source:** QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. **Ref:** 4249.

**5905 3,3'-Dihydroxy-2-(4-hydroxybenzyl)-5-methoxybibenzyl**

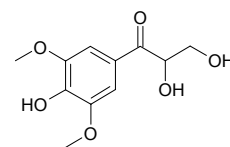
C₂₂H₂₂O₄ (350.42). Colorless needles. **Pharm:** Antiallergic β-Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (98.4 ± 1.6) μmol/L, p < 0.01; 300 μmol/L control Ketotifen fumarate, InRt = (72.5 ± 0.9) μmol/L, p < 0.01). **Source:** SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 5022.

**5906 (3R,5S)-3,5-Dihydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)heptane**

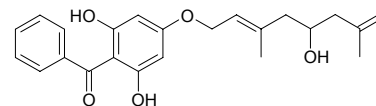
C₂₂H₃₀O₇ (406.48). Colorless oil, [α]_D²⁴ = 0° (c = 0.55, CHCl₃). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3803.

**5907 2,3-Dihydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-1-propanone**

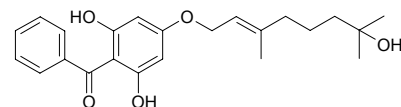
C₁₁H₁₄O₆ (242.23). Amorphous white powder, [α]_D²⁵ = 0° (c = 0.5, CHCl₃). **Source:** TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root: yield = 0.012% dw). **Ref:** 4657.

**5908 2,6-Dihydroxy-4-[(E)-5-hydroxy-3,7-dimethylocta-2,7-dienyloxy]benzophenone**

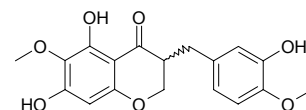
C₂₃H₂₆O₅ (382.46). Yellow amorphous powder, [α]_D²⁵ = -20° (c = 0.2, MeOH). **Source:** YUAN BAO CAO *Hypericum sampsonii* (whole herb). **Ref:** 4055.

**5909 2,6-Dihydroxy-4-[(E)-7-hydroxy-3,7-dimethylocta-2-enyloxy]benzophenone**

C₂₃H₂₈O₅ (384.48). Yellow amorphous powder, [α]_D²⁵ = +30° (c = 0.3, MeOH). **Source:** YUAN BAO CAO *Hypericum sampsonii* (whole herb). **Ref:** 4055.

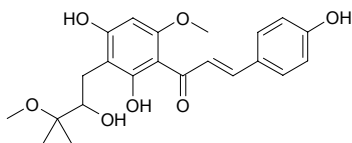
**5910 5,7-Dihydroxy-3-(3-hydroxy-4-methoxy-benzyl)-6-methoxychroman-4-one**

C₁₈H₁₈O₇ (346.34). [α]_D²⁰ = -16.0° (c = 0.20, MeOH). **Pharm:** Angiogenesis inhibitor (IC₅₀ = 0.5 μg/mL, control Retinoic acid, IC₅₀ = 0.3 μg/mL). **Source:** DU JUAN LAN *Cremastra appendiculata* (bulb). **Ref:** 4937.



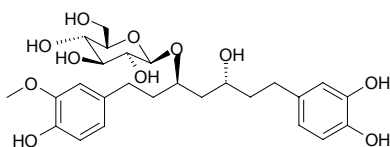
5911 1-[2,4-Dihydroxy-3-(3-hydroxy-2-methoxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)propenone

$C_{22}H_{26}O_7$ (402.45). Yellow powder. **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} = 6.5\mu\text{mol/L}$, without showing cytotoxicity at concentrations lower than $10\mu\text{mol/L}$, cell viability > 95%). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.



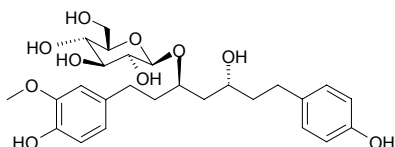
5912 (3R,5R)-3,5-Dihydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxyphenyl)heptane 3-O- β -D-glucopyranoside

$C_{26}H_{36}O_{11}$ (524.57). Amorphous solid, $[\alpha]_D^{25} = -16.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} = 4.5\mu\text{g/mL}$; HSC-2, $IC_{50} = 209\mu\text{g/mL}$; HGF, $IC_{50} > 250\mu\text{g/mL}$; control Etoposide: HL-60, $IC_{50} = 0.2\mu\text{g/mL}$; HSC-2, $IC_{50} = 24\mu\text{g/mL}$; HGF, $IC_{50} > 200\mu\text{g/mL}$). **Source:** JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0013%dw). **Ref:** 4609.



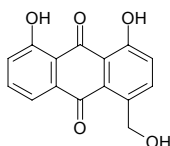
5913 (3R,5R)-3,5-Dihydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)heptane 3-O- β -D-glucopyranoside

$C_{26}H_{36}O_{10}$ (508.57). Amorphous solid, $[\alpha]_D^{25} = -2.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} > 10\mu\text{g/mL}$; HSC-2, $IC_{50} = 160\mu\text{g/mL}$; HGF, $IC_{50} > 250\mu\text{g/mL}$; control Etoposide: HL-60, $IC_{50} = 0.2\mu\text{g/mL}$; HSC-2, $IC_{50} = 24\mu\text{g/mL}$; HGF, $IC_{50} > 200\mu\text{g/mL}$). **Source:** JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0020%dw). **Ref:** 4609.



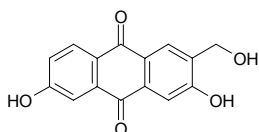
5914 1,8-Dihydroxy-4-hydroxymethyl anthraquinone

$C_{15}H_{10}O_5$ (270.24). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.



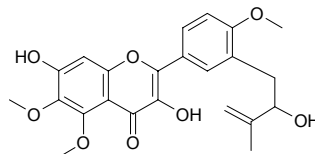
5915 3,6-Dihydroxy-2-hydroxymethyl-9,10-anthraquinone

$C_{15}H_{10}O_5$ (270.24). Yellow powder. **Source:** MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). **Ref:** 4219.



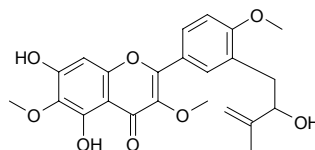
5916 3,7-Dihydroxy-3'-(2-hydroxy-3-methyl-3-butenyl)-5,6,4'-trimethoxyflavone

$C_{23}H_{24}O_8$ (428.44). Yellow gummy solid, $[\alpha]_D^{25} = +33.3^\circ$ ($c = 0.03$, MeOH). **Pharm:** Prolyl endopeptidase inhibitor (flavobacterium origin, $IC_{50} = (233\pm 0.003)\mu\text{mol/L}$, control Z-pro-prolinal, $IC_{50} = (0.884\pm 0.025)\mu\text{mol/L}$)^[4179]; thrombin inhibitor inactive (bovine source, control Leupeptin, $IC_{50} = (45.4\pm 0.03)\mu\text{mol/L}$). **Source:** JIA LIAN QIAO *Duranta repens* (whole herb). **Ref:** 4179.



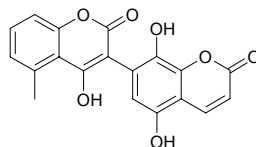
5917 5,7-Dihydroxy-3'-(2-hydroxy-3-methyl-3-butenyl)-3,6,4'-trimethoxyflavone

$C_{23}H_{24}O_8$ (428.44). Yellow gummy solid, $[\alpha]_D^{25} = +18.5^\circ$ ($c = 0.05$, MeOH). **Pharm:** Prolyl endopeptidase inhibitor (flavobacterium origin, $IC_{50} = (450\pm 0.02)\mu\text{mol/L}$, control Z-pro-prolinal, $IC_{50} = (0.884\pm 0.025)\mu\text{mol/L}$); thrombin inhibitor inactive (bovine source, control Leupeptin, $IC_{50} = (45.4\pm 0.03)\mu\text{mol/L}$). **Source:** JIA LIAN QIAO *Duranta repens* (whole herb). **Ref:** 4179.



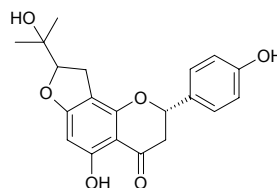
5918 5,8-Dihydroxy-7-(4-hydroxy-5-methyl-coumarin-3)-coumarin

$C_{19}H_{12}O_7$ (352.30). Light pink granular crystals, mp > 300°C. **Source:** DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. **Ref:** 141.



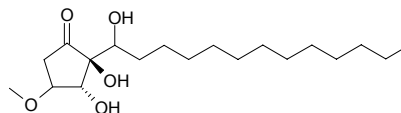
5919 5,4'-Dihydroxy-[2''-(1-hydroxy-1-methylethyl)dihydrofurano]- (7,8:5'',4'')flavanone

$C_{20}H_{20}O_6$ (356.38). Pale yellow solid, $[\alpha]_D^{20} = -99^\circ$ ($c = 0.1$, MeOH). **Source:** ZHEN YE XUE TONG *Macaranga conifera*. **Ref:** 1929.



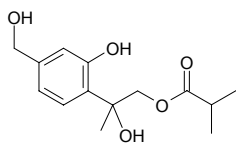
5920 2,3-Dihydroxy-2-(1-hydroxytridecyl)-4-methoxycyclopentanone

$C_{19}H_{36}O_5$ (344.50). **Source:** *Hygrophorus personii*. **Ref:** 3800.

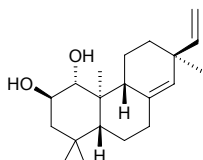


5921 7,8-Dihydroxy-isobutyryl-thymol

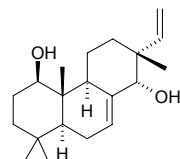
$C_{14}H_{20}O_5$ (268.31). Straw yellow oil. Source: XIAN MAI XUAN FU HUA *Inula nervosa*. Ref: 795.

**5922 (1R,2R)-ent-1,2-Dihydroxyisopimara-8(14),15-diene**

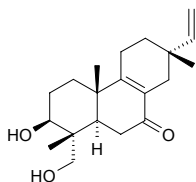
$C_{20}H_{32}O_2$ (304.48). Crystals, mp 132~133°C, $[\alpha]_D^{20} = -16.5^\circ$ ($c = 2.51$). Source: JI RUAN RONG TAI *Trichocolea mollissima*. Ref: 3489.

**5923 1β,14α-Dihydroxyisopimara-7,15-diene**

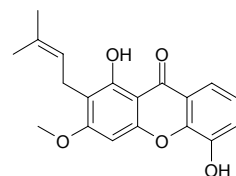
$C_{20}H_{32}O_2$ (304.48). Amorphous powder, $[\alpha]_D = -16.0^\circ$ ($c = 0.6$, $CHCl_3$). Pharm: Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA = 25-50 μg, yeast *Candida albicans*, MA = 25-50 μg). Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 3438.

**5924 3β,19-Dihydroxy-8(9),15-isopimaradien-7-one**

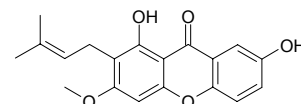
$C_{20}H_{30}O_3$ (318.46). Colorless oil, $[\alpha]_D^{25} = +52^\circ$ ($c = 0.06$, $CHCl_3$). Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*] (branch). Ref: 3022.

**5925 1,5-Dihydroxy-2-isoprenyl-3-methoxyxanthone**

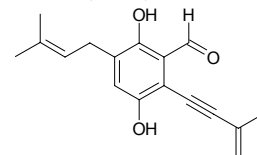
1,5-Dihydroxy-3-methoxy-2-(3-methylbut-2-enyl)-xanthone $C_{19}H_{18}O_5$ (326.35). Pharm: Antibacterial inactive (MRSA). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull), HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0008%dw). Ref: 3066, 4735.

**5926 1,7-Dihydroxy-2-isoprenyl-3-methoxyxanthone**

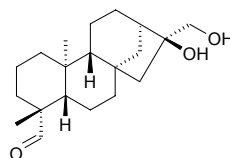
1,7-Dihydroxy-3-methoxy-2-(3-methylbut-2-enyl)xanthone $C_{19}H_{18}O_5$ (326.35). Pharm: Antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 15%, control BHT, 10 μmol/L, ScRt = 43%)^[5319]; antibacterial inactive (MRSA)^[4735]; cytotoxic (*in vitro*, HL-60, IC₅₀ = 23.6 μmol/L)^[4715]; antitubercular (*Mycobacterium tuberculosis*, MIC > 200 μg/mL, inactive)^[4358]. Source: DAO NIAN ZI *Garcinia mangostana* (fruit), DAO NIAN ZI *Garcinia mangostana* (fruit hull), HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0001%dw), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 3066, 4422, 4358, 4715, 4735, 5319.

**5927 2,5-Dihydroxy-3-isoprenyl-6-(3-methylbut-3-en-1-ynyl)benzaldehyde**

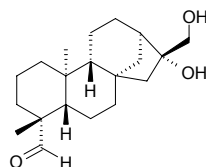
$C_{17}H_{18}O_3$ (270.33). Source: MAO REN GE JUN *Stereum hirsutum*. Ref: 3930.

**5928 16β,17-Dihydroxy-ent-kauran-19-al**

$C_{20}H_{32}O_3$ (320.48). Pharm: Antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (2.77±1.71) μg/mL, control DPI, IC₅₀ = (0.13±0.06) μg/mL, $p < 0.001$)^[4950]; platelet aggregation selected inhibitor (washed rabbit platelets, 200 μmol/L: 100 μmol/L AA induced, InRt = 9.6%; 10 μg/mL collagen induced, InRt = 17.6%; 1 ng/mL PAF induced, InRt = 5.5%; 0.05 U/mL thrombin induced, InRt = 0.0%)^[4654]. Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.0010%fw). Ref: 4950, 4654.

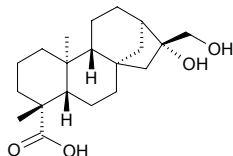
**5929 16α,17-Dihydroxy-ent-kauran-19-al**

$C_{20}H_{32}O_3$ (320.48). Pharm: Platelet aggregation inhibitor inactive (washed rabbit platelets, 200 μmol/L: 100 μmol/L AA induced, InRt = 0.5%; 10 μg/mL collagen induced, InRt = 4.9%; 1 ng/mL PAF induced, InRt = 10.3%; 0.05 U/mL thrombin induced, InRt = 3.2%)^[4654]; antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (6.49±3.31) μg/mL, control DPI, IC₅₀ = (0.13±0.06) μg/mL, $p < 0.001$)^[4950]; antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 50 μg/mL; K562, GI₅₀ = 50 μg/mL; HeLa, CC₅₀ = 50 μg/mL; control Paclitaxel, L-929, GI₅₀ = 0.1 μg/mL; K562, GI₅₀ = 0.01 μg/mL; HeLa, CC₅₀ = 0.01 μg/mL)^[4770]. Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.0012%fw), MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00011%). Ref: 4654, 4770, 4950.

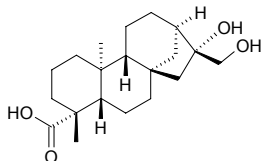


5930 (-)-16,17-Dihydroxy-16 β -kauran-19-oic acid

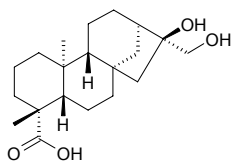
Diterpenoid SP II C₂₀H₃₂O₄ (336.48). mp 260~262°C. **Pharm:** Antihypertensive (rat, orl, 50mg/(kg·d)); anti-inflammatory (caused by formalin, 300mg/kg orl, regression of edema 38%, caused by protein, 300mg/kg orl, regression of edema 53%); antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (3.07±0.33)μg/mL, *p*<0.001, control DPI, IC₅₀ = (0.13±0.06)μg/mL, *p*<0.001)^[4950]; platelet aggregation inhibitor inactive (washed rabbit platelets, 200μmol/L: 100μmol/L AA induced, InRt = 7.2%; 10μg/mL collagen induced, InRt = 2.3%; 1ng/mL PAF induced, InRt = 8.9%; 0.05U/mL thrombin induced, InRt = 0.4%)^[4654]. **Source:** JIAO XI XIAN *Siegesbeckia gummifer*, TU DANG GUI *Aralia cordata*, XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], FAN LI ZHI *Annona squamosa* (stem: yield = 0.00047%fw)^[4654]. **Ref:** 2, 6, 658, 660, 661, 4654, 4950.

**5931 16 α ,17-Dihydroxy-ent-kauran-19-oic acid**

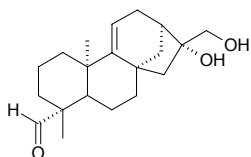
C₂₀H₃₂O₄ (336.48). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.

**5932 16 β ,17-Dihydroxy-ent-kauran-19-oic acid**

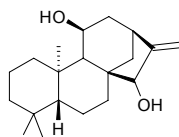
C₂₀H₃₂O₄ (336.48). **Pharm:** Antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (0.79±0.14)μg/mL, *p*<0.001, control DPI, IC₅₀ = (0.13±0.06)μg/mL, *p*<0.001)^[4950]; platelet aggregation inhibitor inactive (washed rabbit platelets, 200μmol/L: 100μmol/L AA induced, InRt = 14.9%; 10μg/mL collagen induced, InRt = 8.6%; 1ng/mL PAF induced, InRt = 14.4%; 0.05U/mL thrombin induced, InRt = 6.8%)^[4654]. **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.0013%fw). **Ref:** 4950, 4654.

**5933 16 α ,17-Dihydroxy-ent-9(11)-kauren-19-al**

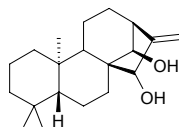
C₂₀H₃₀O₃ (318.46). White amorphous solid, [α]_D²⁰ = +4.8° (*c* = 0.3, CHCl₃). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorhiza* (stem: yield = 0.00028%) **Ref:** 4770.

**5934 ent-11 α ,15 α -Dihydroxy-16-kaurene**

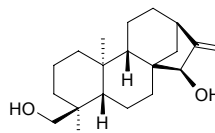
C₂₀H₃₂O₂ (304.48). **Pharm:** Cytotoxic inactive (hmn leukemia cell HL-60, 10μmol/L). **Source:** JIE XING YE TAI *Jungermannia truncata*. **Ref:** 4201.

**5935 ent-14 α ,15 α -Dihydroxy-16-kaurene**

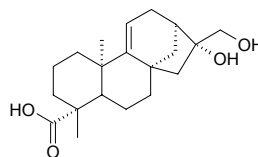
C₂₀H₃₂O₂ (304.48). Amorphous, [α]_D²² = -48.5° (*c* = 2.89). **Source:** JIE XING YE TAI *Jungermannia truncata*. **Ref:** 4201.

**5936 ent-15 α ,18-Dihydroxy-16-kaurene**

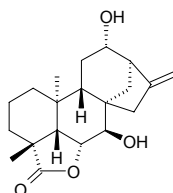
C₂₀H₃₂O₂ (304.48). White amorphous powder, [α]_D²⁵ = -76.7° (*c* = 0.20, CHCl₃). **Pharm:** Cytotoxic (BST test, weak active). **Source:** DONG JIN BA DOU *Croton tonkinensis* (leaf). **Ref:** 4444.

**5937 16 α ,17-Dihydroxy-ent-9(11)-kauren-19-oic acid**

C₂₀H₃₀O₄ (334.46). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorhiza* (stem: yield = 0.00075%) **Ref:** 4770.

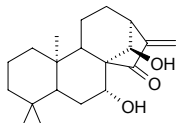
**5938 7 β ,12 α -Dihydroxykaurenolide**

C₂₀H₂₈O₄ (332.44). **Pharm:** Plant growth regulator. **Source:** XI HU LU *Cucurbita pepo*. **Ref:** 658.

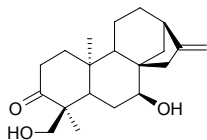


5939 7 α ,14 β -Dihydroxykaur-16-en-15-one

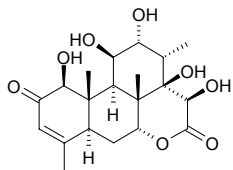
C₂₀H₃₀O₃ (318.46). White amorphous powder, mp 200~201°C, [α]_D¹⁸ = -10° (c = 0.3, CHCl₃). **Pharm:** Anti-inflammatory (inhibits LPS-induced NF- κ B activation in murine macrophage RAW264.7 cells, IC₅₀ = 0.11 μ mol/L; control Parthenolide, IC₅₀ = 2.34 μ mol/L); NO production inhibitor (IC₅₀ = 0.26 μ mol/L; control Parthenolide, IC₅₀ = 2.01 μ mol/L). **Source:** DONG JIN BA DOU *Croton tonkinensis* (leaf: yield = 0.00054%dw). **Ref:** 4724.

**5940 ent-7 α ,18-Dihydroxykaur-16-en-3-one**

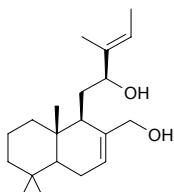
C₂₀H₃₀O₃ (318.46). Syrup, [α]_D = -45.8° (c = 0.5, CHCl₃). **Source:** MU ER DU MA CAO *Sideritis moorei* (aerial parts). **Ref:** 5295.

**5941 14 β ,15 β -Dihydroxyklaineanon**

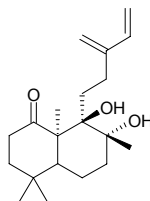
C₂₀H₂₈O₈ (396.44). **Pharm:** Cytotoxic (KB cells, IC₅₀ = 0.38 μ g/mL, P₃₈₈ cells, IC₅₀ = 0.29 μ g/mL)^[4556]; plant growth inhibitor (Cucumber seedling, root growth, IC₅₀ = (2.5 \pm 0.5) μ mol/L, shoot growth, IC₅₀ = (22.7 \pm 0.5) μ mol/L; Rice seedling, root growth, IC₅₀ > 200 μ mol/L, shoot growth, IC₅₀ > 200 μ mol/L)^[5215]. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. **Ref:** 4556, 5215.

**5942 12,17-Dihydroxyabda-7,13(E)-diene**

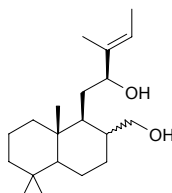
C₂₀H₃₄O₂ (306.49). mp 109~111°C, [α]_D²⁰ = -7.55° (c = 1.06, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, BT474, IC₅₀ = 2.5 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.08 μ g/mL; CHAGO, IC₅₀ = 6.1 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL; HepG2, IC₅₀ = 5.3 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; Kato3, IC₅₀ = 0.6 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ = 6.1 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL). **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. **Ref:** 5363.

**5943 ent-8 α ,9 β -Dihydroxyabda-13(16),14-dien-1-one**

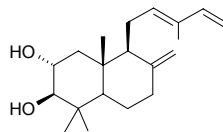
C₂₀H₃₂O₃ (320.48). Colorless oil, [α]_D²⁰ = +13.6° (c = 0.21, CHCl₃). **Source:** JIE MAO TAI *Blepharostoma trichophyllum*. **Ref:** 3843.

**5944 12,17-Dihydroxyabda-13(E)-ene**

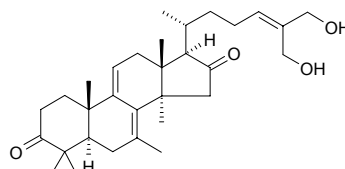
C₂₀H₃₀O₂ (308.51). mp 161~163°C, [α]_D²⁰ = -15.42° (c = 1.18, CHCl₃). **Pharm:** Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10 μ g/mL). **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. **Ref:** 5363.

**5945 2,3-Dihydroxy-labda-8(17),12(E),14-triene**

C₂₀H₃₂O₂ (304.48). White solid, mp 69~70°C, [α]_D²⁰ = -6.96° (c = 1.0, CHCl₃). **Pharm:** Cytotoxic (Kato3, IC₅₀ = 2.2 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ = 2.7 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL; BT474, IC₅₀ = 4.6 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.08 μ g/mL; HepG2, IC₅₀ = 3.7 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; CHAGO, IC₅₀ = 3.3 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL). **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem cortex). **Ref:** 5121.

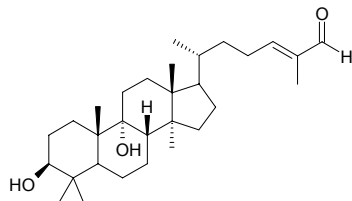
**5946 26,27-Dihydroxy-lanosta-7,9(11),24-trien-3,16-dione**

C₃₁H₄₆O₄ (482.71). mp 136~139°C. **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

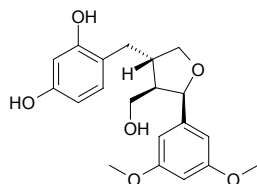


5947 3 β ,9 α -Dihydroxy-lanost-24-en-26-ol

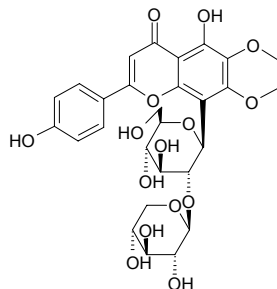
C₃₀H₅₀O₃ (458.73). White amorphous powder, $[\alpha]_D^{27} = +5.0^\circ$ ($c = 0.003$, CHCl₃). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.

**5948 (7,8-cis-8,8'-trans)-2',4'-Dihydroxyl-3,5-dimethoxyl-lariciresinol**

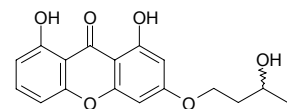
C₂₀H₂₄O₆ (360.41). Light-brown powder, mp 220~223°C (dec). Source: FEI SHU *Torreya grandis* (aril). Ref: 4836.

**5949 5,4'-Dihydroxyl-6,7-dimethoxyl-8-C-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl flavone**

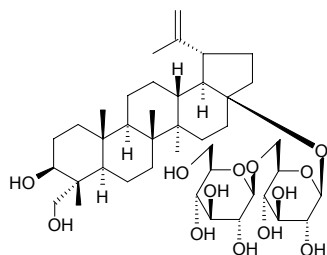
C₂₈H₃₂O₁₅ (608.56). Yellow amorphous powder, mp 173~175°C, $[\alpha]_D^{25} = -44.9^\circ$ ($c = 0.60$, MeOH). Source: SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*] (whole herb). Ref: 4830.

**5950 1,8-Dihydroxy-3-(3'-hydroxy-butoxy) xanthone**

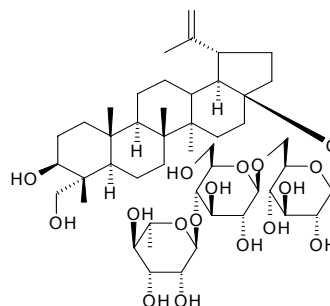
C₁₇H₁₆O₆ (316.31). Yellow columnar crystals (CHCl₃-MeOH), mp 269~270°C. Source: CHUAN DONG ZHANG YA CAI *Swertia davidii*. Ref: 2480.

**5951 3 β ,23-Dihydroxy-lup-20(29)-ene-28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

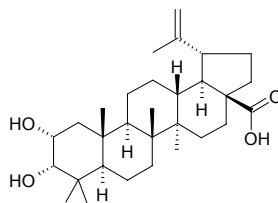
C₄₁H₆₈O₁₃ (768.99). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 2.

**5952 3 β ,23-Dihydroxy-lup-20(29)-ene-28-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

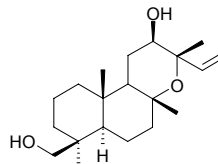
C₄₇H₇₈O₁₇ (915.14). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 2.

**5953 2 α ,3 α -Dihydroxylup-20(29)-en-28-oic acid**

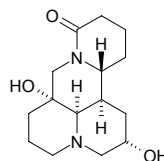
C₃₀H₄₈O₄ (472.71). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.

**5954 12 β ,19-Dihydroxymanoyl oxide**

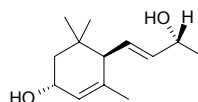
8,13-Epoxy-14-labdene C₂₀H₃₄O₃ (322.49). Amorphous, $[\alpha]_D^{26} = +13.1^\circ$ ($c = 0.21$, CHCl₃). Source: TAI WAN SHAN MU *Cunninghamia konishii* (wood). Ref: 4176.

**5955 5 α ,9 α -Dihydroxymatrine**

[72362-00-6] C₁₅H₂₄N₂O₃ (280.37). Source: XI XIAN *Siegesbeckia orientalis*. Ref: 2.

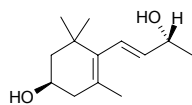
**5956 (3R,6R,7E,9R)-3,9-Dihydroxy-4,7-megastigmadiene**

C₁₃H₂₂O₂ (210.32). Colorless oil, $[\alpha]_D^{25} = +25.9^\circ$ ($c = 0.53$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*)^[3776]. Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

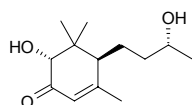


5957 (3S,7E,9R)-3,9-Dihydroxy-5,7-megastigmadiene

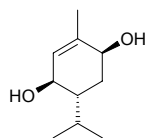
$C_{13}H_{22}O_2$ (210.32). Colorless oil, $[\alpha]_D^{25} = -97.9^\circ$ ($c = 0.48$, CH_2Cl_2). **Pharm:** Phytotoxin (inhibits germination and growth of *Lactuca sativa*). **Source:** PA KE YE XIANG SHU *Cestrum parqui* (leaf). **Ref:** 3776.

**5958 (2R,6R,9R)-2,9-Dihydroxy-4-megastigmen-3-one**

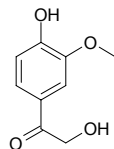
$C_{13}H_{22}O_3$ (226.32). Colorless oil, $[\alpha]_D^{25} = +102.7^\circ$ ($c = 0.56$, CH_2Cl_2). **Pharm:** Phytotoxin (inhibits germination and growth of *Lactuca sativa*). **Source:** PA KE YE XIANG SHU *Cestrum parqui* (leaf). **Ref:** 3776.

**5959 (3R,4R,6S)-3,6-Dihydroxy-1-menthene**

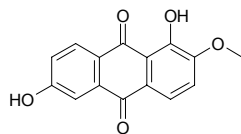
$C_{10}H_{18}O_2$ (170.25). Colorless needles, mp 166–168°C (CH_3OH). **Pharm:** Antibacterial (*Staphylococcus aureus*, antibacterial circle < 12mm; *Bacillus subtilis*, antibacterial circle = 13–16mm; *Escherichia coli*, antibacterial circle > 17mm). **Source:** JIAN YE TOU WU GEN *Ligularia sagitta*. **Ref:** 5382.

**5960 2,4'-Dihydroxy-3'-methoxyacetophenone**

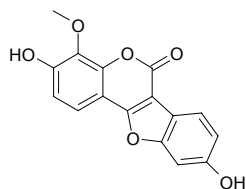
$C_9H_{10}O_4$ (182.18). **Source:** *Eurycoma* sp. **Ref:** 4556.

**5961 1,6-Dihydroxy-2-methoxyanthraquinone**

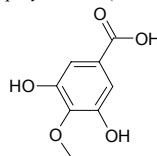
$C_{15}H_{10}O_5$ (270.24). Orange-red needles, mp 178–180°C. **Source:** BA JI TIAN *Morinda officinalis*. **Ref:** 8.

**5962 3,9-Dihydroxy-4-methoxy-benzo[4,5]furo[3,2-c]chromen-6-one**

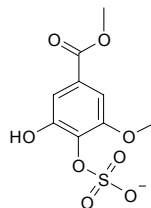
$C_{16}H_{10}O_6$ (298.25). Brown amorphous solid. **Source:** SHUI LIU DOU *Pongamia pinnata* (fruit). **Ref:** 3767.

**5963 3,5-Dihydroxy-4-methoxybenzoic acid**

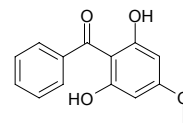
$C_8H_8O_5$ (184.15). **Source:** DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0022%dw). **Ref:** 4767.

**5964 3,4-Dihydroxy-5-methoxybenzoic acid methyl ester-4-sulfate**

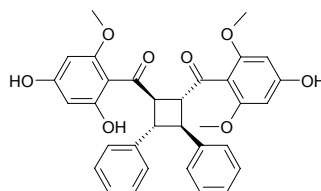
$C_9H_9O_8S$ (277.23). Amorphous powder. **Source:** HU ZHANG *Polygonum cuspidatum*. **Ref:** 4186.

**5965 2,6-Dihydroxy-4-methoxybenzophenone**

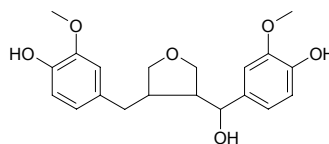
Cotoin $C_{14}H_{12}O_4$ (244.25). **Source:** DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). **Ref:** 3874.

**5966 rel-1β-(4,6-Dihydroxy-2-methoxy)-benzoyl-rel-2α-(2,6-dimethoxy-4-hydroxy)-benzoyl-rel-(3β,4α)-diphenylcyclobutane**

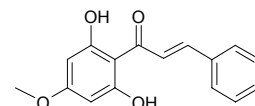
$C_{33}H_{30}O_8$ (554.60). Yellowish amorphous solid, mp 210°C, $[\alpha]_D^{21} = +19.3^\circ$ ($c = 0.1$, MeOH). **Source:** BAI DIAN FENG CHE ZI *Combretum albopunctatum* (aerial parts). **Ref:** 3766.

**5967 3-(α,4-Dihydroxy-3-methoxybenzyl)-4-(hydroxy-3-methoxybenzyl) tetrahydrofuran**

$C_{20}H_{24}O_6$ (360.41). Yellow colloid. **Source:** YUN NAN HAN XIAO *Michelia yunnanensis*. **Ref:** 426.

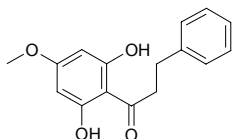
**5968 2',6'-Dihydroxy-4'-methoxychalcone**

$C_{16}H_{14}O_4$ (270.29). mp 161–162°C. **Source:** ZHEN CAI *Litsea pungens*. **Ref:** 6.

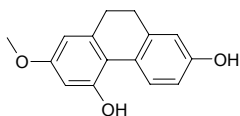


5969 2',6'-Dihydroxy-4'-methoxydihydrochalcone

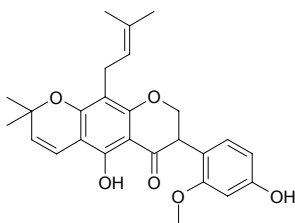
$C_{16}H_{16}O_4$ (272.30). **Pharm:** Germination inhibitor (spores of *Pityrogramma calomelanos*, 50 μ mol/L). **Source:** DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], LIU HUANG TIE XIAN JUE *Adiantum sulphureum*, *Notholaena* sp. **Ref:** 658.

**5970 4,7-Dihydroxy-2-methoxy-9,10-dihydro-phenanthrene**

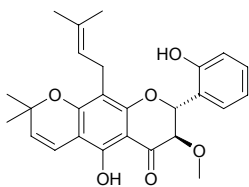
$C_{15}H_{14}O_3$ (242.28). **Source:** MI HUA SHI HU *Dendrobium densiflorum* (stem). **Ref:** 5171.

**5971 5,4'-Dihydroxy-2'-methoxy-8-(3,3-dimethylallyl)-2'',2''-dimethylpyrano[5,6:6,7]isoflavanone**

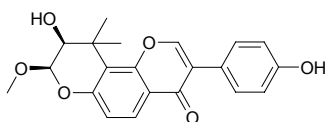
$C_{26}H_{28}O_6$ (436.51). Yellow oil, $[\alpha]_D^{20} = 7.6^\circ$ ($c = 0.1$, MeOH). **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex: yield = 0.00001%fw). **Ref:** 2269.

**5972 5,2'-Dihydroxy-3-methoxy-6,7-(2'',2''-dimethylchromene)-8-(3''',3'''-dimethylallyl)-flavanone**

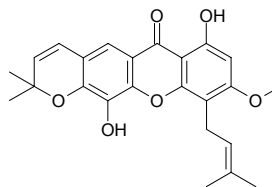
Jayacanol 3-methyl ether $C_{26}H_{28}O_6$ (436.51). Pale yellow crystals (methanol), mp 128.8–129.2°C, $[\alpha]_D^{20} = -12.69^\circ$ ($c = 0.670$, CH_2Cl_2). **Source:** *Lonchocarpus atropurpureus*. **Ref:** 2423.

**5973 4',5''-Dihydroxy-6''-methoxy-4'',4''-dimethyl-4'',5''-dihydro-6''H-pyrano[2'',3'':7,8]-isoflavone**

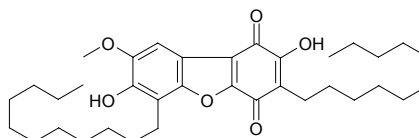
$C_{21}H_{20}O_6$ (368.39). White amorphous powder, mp 226–228°C, $[\alpha]_D^{25} = -12^\circ$ ($c = 0.05$, MeOH). **Pharm:** Cytotoxic (KB, $IC_{50} > 75\mu$ mol/L, control Helenalin, $IC_{50} = (0.64 \pm 0.08)\mu$ mol/L, Melphalan, $IC_{50} = (6.0 \pm 0.5)\mu$ mol/L; Mono-Mac-6, $IC_{50} > 75\mu$ mol/L, Helenalin, $IC_{50} = (3.1 \pm 0.3)\mu$ mol/L; Jurkat-T, $IC_{50} > 75\mu$ mol/L, Helenalin, $IC_{50} = (1.14 \pm 0.08)\mu$ mol/L, Melphalan, $IC_{50} = (9.1 \pm 0.8)\mu$ mol/L). **Source:** *Bituminaria morisiana* (leaf). **Ref:** 5077.

**5974 1,5-Dihydroxy-3-methoxy-6',6'-dimethyl-2H-pyrano(2',3':6,7)-4-(3-methylbut-2-enyl)xanthone**

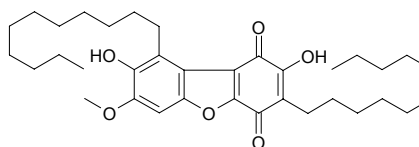
$C_{24}H_{24}O_6$ (408.46). Yellow needles, mp 217–218°C. **Source:** YUN NAN SHAN ZHU ZI *Garcinia cowa* (stem: yield = 0.0008%dw). **Ref:** 916.

**5975 2,7-Dihydroxy-8-methoxy-3,6-diundecyldibenzofuran-1,4-dione**

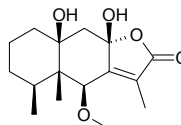
$C_{35}H_{52}O_6$ (568.8). Dark red solid ($CHCl_3$), mp 65–66°C. **Pharm:** Cytotoxic inactive (*in vitro*, HL-60, $IC_{50} > 100\mu$ g/mL; Bel7402, $IC_{50} > 100\mu$ g/mL; HeLa, $IC_{50} > 100\mu$ g/mL; U937, $IC_{50} > 100\mu$ g/mL; control Colchicine, HL-60, $IC_{50} = 1.6\mu$ g/mL; Bel7402, $IC_{50} = 0.4\mu$ g/mL; HeLa, $IC_{50} = 0.1\mu$ g/mL; U937, $IC_{50} = 0.1\mu$ g/mL). **Source:** LA ZHU GUO *Aegicerias corniculatum* (stem and twig: yield = 0.000058%). **Ref:** 4746.

**5976 2,8-Dihydroxy-7-methoxy-3,9-diundecyldibenzofuran-1,4-dione**

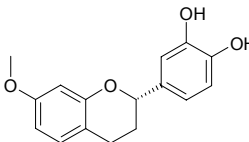
$C_{35}H_{52}O_6$ (568.8). Dark red solid ($CHCl_3$), mp 88–89°C. **Pharm:** Cytotoxic inactive (*in vitro*, HL-60, $IC_{50} > 100\mu$ g/mL; Bel7402, $IC_{50} > 100\mu$ g/mL; HeLa, $IC_{50} > 100\mu$ g/mL; U937, $IC_{50} > 100\mu$ g/mL; control Colchicine, HL-60, $IC_{50} = 1.6\mu$ g/mL; Bel7402, $IC_{50} = 0.4\mu$ g/mL; HeLa, $IC_{50} = 0.1\mu$ g/mL; U937, $IC_{50} = 0.1\mu$ g/mL). **Source:** LA ZHU GUO *Aegicerias corniculatum* (stem and twig: yield = 0.000058%). **Ref:** 4746.

**5977 8β,10β-Dihydroxy-6β-methoxyeremophil-7(11)-en-12,8α-olide**

$C_{16}H_{24}O_5$ (296.37). Colorless plates, mp 181–182°C (Me_2CO). **Source:** JIAN YE TOU WU GEN *Ligularia sagitta*. **Ref:** 5382.

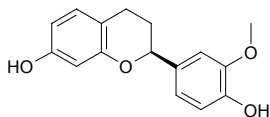
**5978 (2S,3',4')-Dihydroxy-7-methoxy flavan**

$C_{16}H_{16}O_4$ (272.30). Amorphous powder. **Source:** LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum* (bulb). **Ref:** 3997.

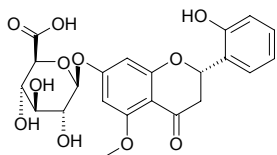


5979 (2S)-4',7-Dihydroxy-3'-methoxyflavan

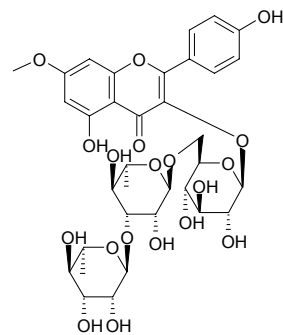
$C_{16}H_{16}O_4$ (272.30). Source: LONG XUE SHU *Dracaena draco* (stem cortex). Ref: 4696.

**5980 (2S)-7,2'-Dihydroxy-5-methoxyflavanone 7-O-β-D-glucuronopyranoside**

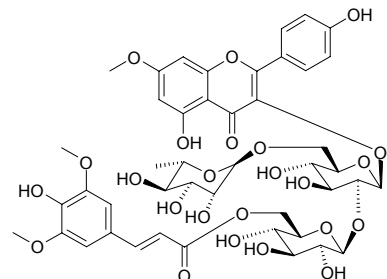
$C_{22}H_{22}O_{11}$ (462.41). Colorless needles (MeOH), mp 190–191°C (dec), $[\alpha]_D^{25} = -116.8^\circ$ ($c = 0.052$, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0052%dw). Ref: 2072.

**5981 5,4'-Dihydroxy-7-methoxyflavone-3-O-[α-L-rhamnopyranosyl(1→3)-O-α-L-rhamnopyranosyl(1→6)-O-β-D-glucopyranoside]**

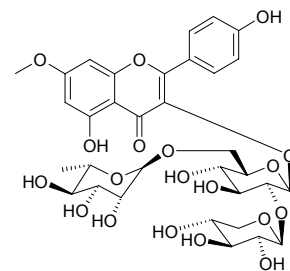
$C_{34}H_{42}O_{19}$ (754.70). Yellow powder, mp 210–212°C, $[\alpha]_D^{20} = -41.99^\circ$ ($c = 0.5$, MeOH). Pharm: Inhibitory activity against NFAT transcription ($IC_{50} > 100\mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01)\mu\text{mol/L}$). Source: HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. Ref: 2536.

**5982 4',5-Dihydroxy-7-methoxyflavonol 3-O-[6-O-(E)-3,5-dimethoxy-4-hydroxycinnamoyl-beta-D-glucopyranosyl]- (1→2)-O-[alpha-L-rhamnopyranosyl-(1→6)]-beta-D-glucopyranoside**

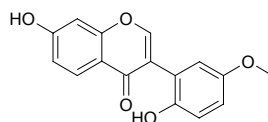
$C_{45}H_{52}O_{24}$ (976.9). Pale-yellow amorphous powder, $[\alpha]_D^{24} = -29.2^\circ$ ($c = 0.26$, $\text{CHCl}_3\text{-MeOH}$, 1:1). Pharm: Cytotoxic inactive (HSC-2, HGF). Source: YE XIANG SHU *Cestrum nocturnum* (leaf: yield = 0.0062%fw). Ref: 3023.

**5983 4',5-Dihydroxy-7-methoxyflavonol 3-O-β-D-xylopyranosyl-(1→2)-O-[α-L-rhamnopyranosyl-(1→6)]-β-D-glucopyranoside**

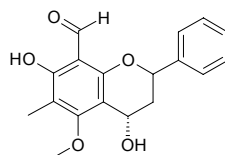
$C_{33}H_{40}O_{19}$ (740.68). Pale-yellow amorphous powder, $[\alpha]_D^{24} = -47.6^\circ$ ($c = 0.21$, $\text{CHCl}_3\text{-MeOH}$, 1:1). Pharm: Cytotoxic inactive (HSC-2, HGF). Source: YE XIANG SHU *Cestrum nocturnum* (leaf: yield = 0.0044%fw). Ref: 3023.

**5984 7,6'-Dihydroxy-3'-methoxyisoflavone**

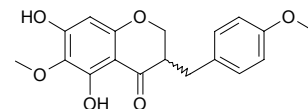
$C_{16}H_{12}O_5$ (284.27). Yellowish crystals (Me_2CO), mp 250–252°C. Source: TU FU LING *Smilax glabra*. Ref: 416.

**5985 4,7-Dihydroxy-5-methoxyl-6-methyl-8-formyl-flavan**

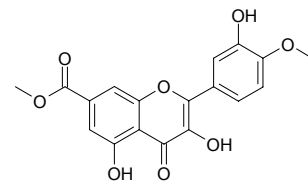
$C_{18}H_{18}O_5$ (314.34). Yellowish rhomboid crystals, mp 137–139°C. Source: JIA YING ZHAO *Desmos cochinchinensis* [Syn. *Desmos chinensis*]. Ref: 121.

**5986 5,7-Dihydroxy-6-methoxy-3-(4-methoxybenzyl)chroman-4-one**

$C_{18}H_{18}O_6$ (330.34). Yellow vitreous solid, $[\alpha]_D = -100^\circ$ ($c = 0.025$, MeOH). Source: *Scilla dracomontana*. Ref: 2327.

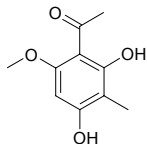
**5987 5,3'-Dihydroxy-4'-methoxy-7-methoxycarbonylflavonol**

$C_{18}H_{14}O_8$ (358.31). Pharm: NO production inhibitor (LPS-induced, concentration-dependent manner, $IC_{50} = 61.6\mu\text{mol/L}$ or $40.4\mu\text{mol/L}$); PGE_2 production inhibitor (LPS-induced, concentration-dependent manner, $IC_{50} = 32.8\mu\text{mol/L}$ or $30.3\mu\text{mol/L}$). Source: XIAO YE JU HAO *Tanacetum microphyllum* (aerial parts). Ref: 4918.

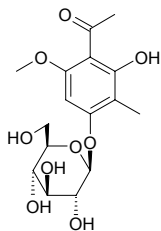


5988 2,4-Dihydroxy-6-methoxy-3-methylacetophenone

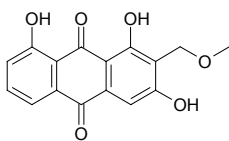
$C_{10}H_{12}O_4$ (196.20). Light brown acicular crystals, mp 190°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 678.

**5989 2,4-Dihydroxy-6-methoxy-3-methylacetophenone-4-O-β-D-glucopyranoside**

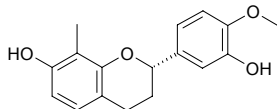
$C_{16}H_{22}O_9$ (358.35). Hoar acicular crystals, mp 198°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 678.

**5990 1,3-Dihydroxy-2-methoxymethylanthraquinone**

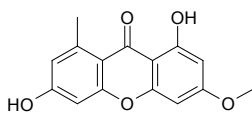
$C_{16}H_{12}O_6$ (300.27). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**5991 7,3'-Dihydroxy-4'-methoxy-8-methylflavan**

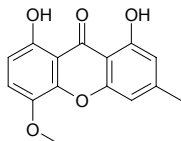
[87733-81-1] $C_{17}H_{18}O_4$ (286.33). Pharm: Larvacide (larva of *Eurema hecabe mandarina*, antifeedant). Source: LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. Ref: 658, 4696.

**5992 1,6-Dihydroxy-3-methoxy-8-methylxanthone**

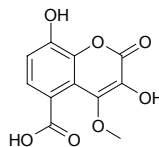
$C_{15}H_{12}O_5$ (272.26). Yellow powder, mp 210–212°C (dec). Source: HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). Ref: 3368.

**5993 1,8-Dihydroxy-5-methoxy-3-methylxanthone**

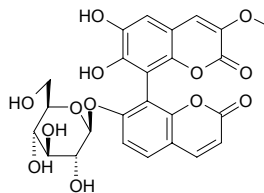
$C_{15}H_{12}O_5$ (272.26). Yellow needles (CHCl₃), mp.214–215°C. Source: RI BEN XIAO HE YI *Pyrenula japonica*. Ref: 2362.

**5994 3,8-Dihydroxy-4-methoxy-2-oxo-2H-1-benzopyran-5-carboxylic acid**

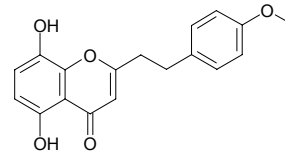
$C_{11}H_8O_7$ (252.18). Yellowish acicular crystals, mp 277–279°C. Source: DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. Ref: 141.

**5995 6,7-Dihydroxy-3-methoxy-8-[2-oxo-2H-1-benzopyran-7-(O-β-D-glucopyranosyl)-8-yl]-2H-1-benzopyran-2-one**

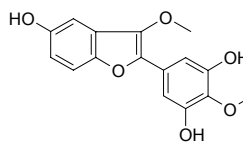
Gulsamanin $C_{25}H_{22}O_{13}$ (530.45). mp 192–193°C. Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2278.

**5996 5,8-Dihydroxy-2-[2-(4'-methoxyphenyl) ethyl]chromone**

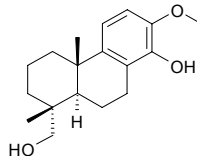
$C_{18}H_{16}O_5$ (312.33). Colorless acicular crystals, mp 172–180°C. Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13.

**5997 2-(3',5'-Dihydroxy-4'-methoxyphenyl)-3-methoxy-5-hydroxy benzofuran**

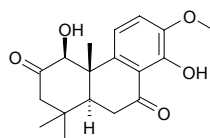
$C_{18}H_{14}O_6$ (302.29). Colorless acicular, mp 219–221°C. Source: XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*]. Ref: 193.

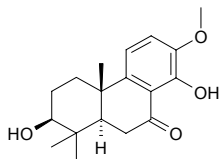
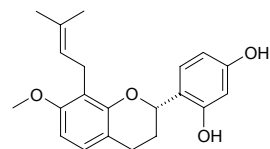
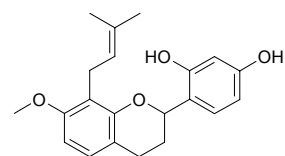
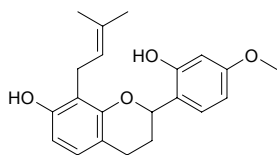
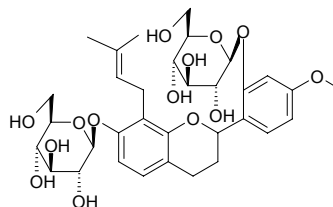
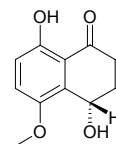
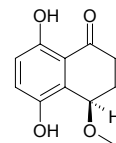
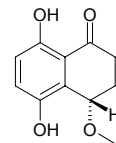
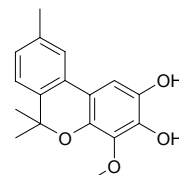
**5998 14,18-Dihydroxy-13-methoxy-8,11,13-podocarpatriene**

$C_{18}H_{26}O_3$ (290.41). Yellow amorphous solid, $[\alpha]_D^{18} = +5.3^\circ$ ($c = 0.42$, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4182.

**5999 1β,14-Dihydroxy-13-methoxy-8,11,13-podocarpatriene-2,7-dione**

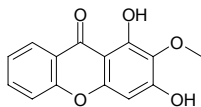
$C_{18}H_{22}O_5$ (318.37). Yellow amorphous solid, $[\alpha]_D^{24} = -35.0^\circ$ ($c = 0.17$, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4182.



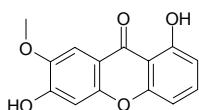
6000 3 β ,14-Dihydroxy-13-methoxy-8,11,13-podocarpatrien-7-oneC₁₈H₂₄O₄ (304.39). Yellow amorphous solid, [α]_D²⁴ = -9.4° (c = 0.35, CHCl₃).Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4182.**6001 (2S)-2',4'-Dihydroxy-7-methoxy-8-prenylflavan**C₂₁H₂₄O₄ (340.42). Pharm: Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.**6002 2',4'-Dihydroxy-7-methoxy-8-prenylflavan**C₂₁H₂₄O₄ (340.42). Amorphous powder, [α]_D = -1.6° (c = 1.0, MeOH). Pharm: Antioxidant (hmn LDL, inhibits CuSO₄-induced oxidation of hmn LDL, 0.5 nmol/mL, relative lag time = 0.81 ± 0.10, positive control Quercetin, 0.5 nmol/mL, assigned relative lag time = 1.0)^[3507]; DPPH scavenger (IC₅₀ = 603 nmol/mL, positive control Quercetin, IC₅₀ = 3.7 nmol/mL)^[3507]. Source: SANG BAI PI *Morus alba*, SANG YE *Morus alba* (leaf: yield = 0.0003%). Ref: 2513, 3507.**6003 2',7-Dihydroxy-4'-methoxy-8-prenylflavan**C₂₁H₂₄O₄ (340.42). Amorphous powder, [α]_D = -5.5° (c = 1.0, MeOH). Pharm: Antioxidant (hmn LDL, inhibits CuSO₄-induced oxidation of hmn LDL, 0.5 nmol/mL, relative lag time = 1.70 ± 0.25, positive control Quercetin, 0.5 nmol/mL, assigned relative lag time = 1.0)^[3507]; DPPH scavenger (IC₅₀ = 137 nmol/mL, positive control Quercetin, IC₅₀ = 3.7 nmol/mL)^[3507]. Source: SANG YE *Morus alba* (leaf: yield = 0.0018%), SANG BAI PI *Morus alba*. Ref: 2513, 3507.**6004 2',7-Dihydroxy-4'-methoxy-8-prenylflavan 2',7-di-O-β-D-glucopyranoside**C₃₃H₄₄O₁₄ (664.71). Amorphous powder, [α]_D = -91.1° (c = 0.25, MeOH). Pharm: Antioxidant (hmn LDL, inhibits CuSO₄-induced oxidation of hmn LDL, 10.0 nmol/mL, relative lag time = 0.85 ± 0.07, positive control Quercetin, 0.5 nmol/mL, assigned relative lag time = 1.0)^[3507]; DPPH scavenger (IC₅₀ = 505 nmol/mL, positive control Quercetin, IC₅₀ = 3.7 nmol/mL)^[3507]. Source: SANG YE *Morus alba* (leaf: yield = 0.0013%), SANG BAI PI *Morus alba*. Ref: 3507, 2513.**6005 (4S)-4,8-Dihydroxy-5-methoxy-α-tetralone**C₁₁H₁₂O₄ (208.22). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). Ref: 4492.**6006 (4R)-5,8-Dihydroxy-4-methoxy-α-tetralone**C₁₁H₁₂O₄ (208.22). Amorphous powder, [α]_D = 0° (CHCl₃). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). Ref: 4492.**6007 (4S)-5,8-Dihydroxy-4-methoxy-α-tetralone**C₁₁H₁₂O₄ (208.22). Amorphous powder, [α]_D = 0° (CHCl₃). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). Ref: 4492.**6008 2,3-Dihydroxy-4-methoxy-6,6,9-trimethyl-6H-dibenzo[b,d]pyran**C₁₇H₁₇O₄ (286.33). Oil. Pharm: Anti-HIV-1 (binds to chemokine receptor CCR5, IC₅₀ = 33 μmol/L). Source: *Wigandia urens* (stem). Ref: 3474.

6009 1,3-Dihydroxy-2-methoxy xanthone

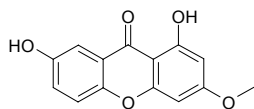
$C_{14}H_{10}O_5$ (258.23). Colorless acicular crystals (chloroform–methanol), mp 162–164°C, mp 174–176°C, mp 176–178°C. Source: HUANG HUA YUAN ZHI *Polygala arillata*, JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*] (root and stem: yield = 0.00043%)^[4683]. Ref: 382, 4683.

**6010 1,6-Dihydroxy-7-methoxyxanthone**

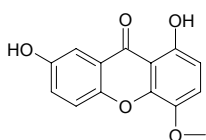
$C_{14}H_{10}O_5$ (258.23). Pharm: Cytotoxic (P_{388} ED₅₀ = 3.02 μg/mL, control Mithramycin ED₅₀ = 0.06 μg/mL, HT29 ED₅₀ = 5.32 μg/mL, Mithramycin ED₅₀ = 0.08 μg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linnii*. Ref: 4094.

**6011 1,7-Dihydroxy-3-methoxy xanthone**

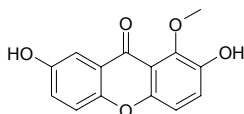
Gentisin [437-50-3] $C_{14}H_{10}O_5$ (258.23). mp 266–267°C. Pharm: Mutagen (*Salmonella typhimurium*). Source: BA XI HU TONG *Calophyllum brasiliense*, HUANG LONG DAN *Gentiana lutea*, TIE LI MU *Mesua ferrea*, YUAN ZHI *Polygala tenuifolia*, ZHANG YA CAI *Swertia pseudochinensis*, ZHEN YE TENG HUANG *Garcinia eugenifolia*. Ref: 2, 6, 658.

**6012 1,7-Dihydroxy-4-methoxyxanthone**

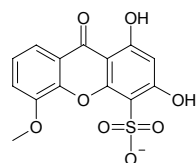
$C_{14}H_{10}O_5$ (258.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

**6013 2,7-Dihydroxy-1-methoxyxanthone**

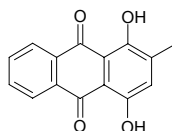
$C_{14}H_{10}O_5$ (258.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

**6014 1,3-Dihydroxy-5-methoxyxanthone-4-sulfonate**

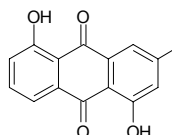
$C_{14}H_9O_8S^-$ (337.29). Yellow needles, mp > 360°C. Pharm: Cytotoxic (P_{388} cell line, ED₅₀ = 3.46 μmol/L; control VP-16, ED₅₀ = 0.064 μmol/L). Source: YUAN BAO CAO *Hypericum sampsonii* (whole herb). Ref: 3861.

**6015 1,4-Dihydroxy-2-methylantraquinone**

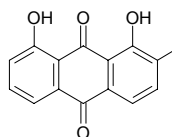
[2589-39-1] $C_{15}H_{10}O_4$ (254.24). Pharm: Anthelmintic (termites). Source: YOU MU *Tectona grandis*. Ref: 658.

**6016 1,5-Dihydroxy-3-methylantraquinone**

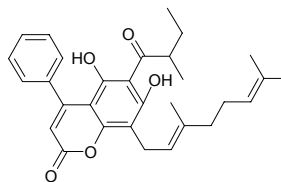
[21891-63-4] $C_{15}H_{14}O_4$ (254.24). Orange red crystals. Source: CANG BAI CHENG GOU FENG *Diploclisia glaucescens*, SI SHI MAO DI HUANG *Digitalis schischkini*, DONG FANG YANG DI HUANG *Digitalis orientalis*, GAN XI SHU WEI CAO *Salvia przewalskii*, YI DA LI JUE MING ZI *Cassia italika*. Ref: 2100, 2102, 2104, 2105, 2270.

**6017 1,8-Dihydroxy-2-methylantraquinone**

$C_{15}H_{10}O_4$ (254.24). Pharm: Cytotoxic (KB, ED₅₀ > 25 μg/mL, control Doxorubicin, ED₅₀ = 0.12 μg/mL; Hep3B, ED₅₀ > 25 μg/mL, Doxorubicin, ED₅₀ = 0.14 μg/mL; Colon205, ED₅₀ > 25 μg/mL, Doxorubicin, ED₅₀ = 0.10 μg/mL; HeLa, ED₅₀ > 25 μg/mL, Doxorubicin, ED₅₀ = 0.11 μg/mL). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

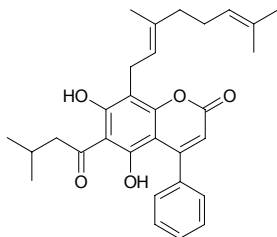
**6018 5,7-Dihydroxy-6-(2-methylbutanoyl)-8-[(E)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2H-chromen-2-one**

$C_{30}H_{34}O_5$ (474.60). Yellow crystals, mp 89–90°C. Pharm: Antibacterial (*Enterococcus faecalis* 18292, MIC = 8 μg/mL; *Enterococcus faecalis* 19250, MIC = 8 μg/mL); antibacterial (*Staphylococcus aureus* 18268, MIC = 32 μg/mL; *Staphylococcus aureus* 17380, MIC = 8 μg/mL; *Staphylococcus aureus* 17592, MIC = 64 μg/mL; *Staphylococcus aureus* 18110, MIC = 64 μg/mL; *Staphylococcus aureus* 17547, MIC = 32 μg/mL; *Staphylococcus aureus* 17728, MIC = 16 μg/mL; *Staphylococcus aureus* 3012, MIC = 16 μg/mL; *Staphylococcus aureus* 414, MIC = 16 μg/mL; *Staphylococcus epidermidis* 3112, MIC = 4 μg/mL; *Staphylococcus epidermidis* 2515, MIC = 8 μg/mL; *Staphylococcus saprophyticus* 3010, MIC = 32 μg/mL; *Staphylococcus simulans* 214, MIC = 4 μg/mL); antimalarial (*Plasmodium falciparum* D10 (CQ-S), IC₅₀ = (2.75±0.45) μg/mL, control Chloroquine, IC₅₀ = (0.011±0.004) μg/mL; W2 (CQ-R), IC₅₀ = (1.17±0.61) μg/mL, control Chloroquine, IC₅₀ = (0.229±0.090) μg/mL). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



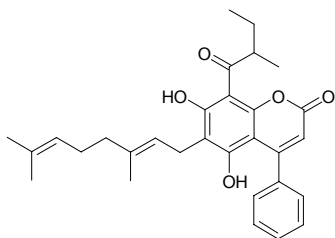
6019 5,7-Dihydroxy-6-(3-methylbutanoyl)-8-[(E)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2H-chromen-2-one

$C_{30}H_{34}O_5$ (474.60). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



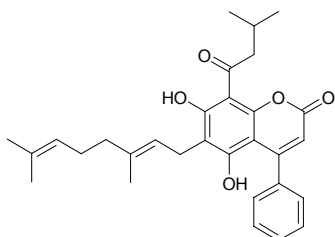
6020 5,7-Dihydroxy-8-(2-methylbutanoyl)-6-[(E)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2H-chromen-2-one

$C_{30}H_{34}O_5$ (474.60). Colorless crystals, mp 90–92°C. Pharm: Antibacterial (*Enterococcus faecalis* 18292, MIC = 8 µg/mL; *Enterococcus faecalis* 19250, MIC = 8 µg/mL); antibacterial (*Staphylococcus aureus* 18268, MIC = 4 µg/mL; *Staphylococcus aureus* 17380, MIC = 64 µg/mL; *Staphylococcus aureus* 17592, MIC = 2 µg/mL; *Staphylococcus aureus* 18110, MIC = 4 µg/mL; *Staphylococcus aureus* 17547, MIC = 2 µg/mL; *Staphylococcus aureus* 17728, MIC = 2 µg/mL; *Staphylococcus aureus* 3012, MIC = 2 µg/mL; *Staphylococcus aureus* 414, MIC = 16 µg/mL; *Staphylococcus epidermidis* 3112, MIC = 2 µg/mL; *Staphylococcus epidermidis* 2515, MIC = 2 µg/mL; *Staphylococcus saprophyticus* 3010, MIC > 128 µg/mL; *Staphylococcus simulans* 214, MIC = 2 µg/mL); antimalarial (*Plasmodium falciparum* D10 (CQ-S), IC_{50} = (11.21±5.40) µg/mL, control Chloroquine, IC_{50} = (0.011±0.004) µg/mL; W2 (CQ-R), IC_{50} = (8.38±2.52) µg/mL, control Chloroquine, IC_{50} = (0.229±0.090) µg/mL). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



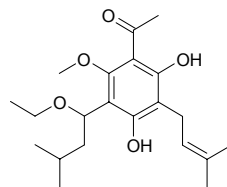
6021 5,7-Dihydroxy-8-(3-methylbutanoyl)-6-[(E)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2H-chromen-2-one

$C_{30}H_{34}O_5$ (474.60). Source: TIE LI MU *Mesua ferrea* (blossom). Ref: 3870.



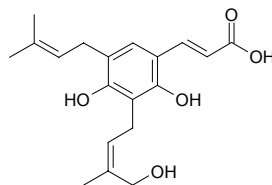
6022 1-[2',4'-Dihydroxy-3'-(3''-methylbut-2''-enyl)-5'-(1'''-ethoxy-3'''-methylbutyl)-6'-methoxy]phenylethanone

$C_{21}H_{32}O_5$ (364.49). Source: SHA TANG MU *Acronychia pedunculata*. Ref: 2373.



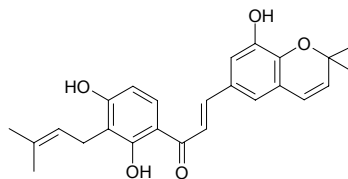
6023 4,6-Dihydroxy-3-[3'-methyl-2'-butenyl]-5-[4''-hydroxy-3''-methyl-2''-butenyl]-cinnamic acid

$C_{19}H_{24}O_5$ (332.40). Colorless oil. Source: DAN ZI HAO *Artemisia monosperma*. Ref: 5249.



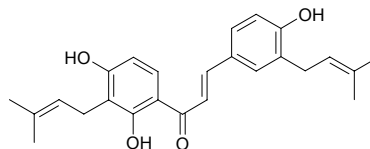
6024 (E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-propen-1-one

6'',6''-Dimethylpyrano(2'',3'':4,5)-3'-γ,γ-dimethylallyl-2',3,4'-trihydroxychalcone [151135-83-0] $C_{25}H_{26}O_5$ (406.48). Yellow acicular crystals (chloroform or hexane), mp 153–156°C. Pharm: Antileishmanial (*Leishmania* sp., 20 µg/mL, InRt = 32%). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*, GAN CAO *Glycyrrhiza uralensis*. Ref: 1002, 1154.

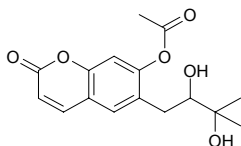


6025 (E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxy-3-[3-methyl-2-butenyl]phenyl)-2-propen-1-one

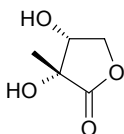
3,3'-Di-(γ,γ-dimethylallyl)-2',4,4'-trihydroxychalcone [151135-82-9] $C_{25}H_{28}O_4$ (392.50). Yellow acicular crystals (methanol–water), mp 134–137°C. Pharm: Antileishmanial (*Leishmania* sp., 20 µg/mL, InRt = 90%). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*, GAN CAO *Glycyrrhiza uralensis*. Ref: 1002, 1154.



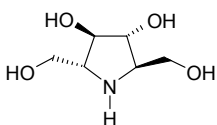
6026 6-(2',3'-Dihydroxy-3'-methylbutyl)-7-acetoxy-2H-1-benzopyran-2-one
 $C_{16}H_{18}O_6$ (306.32). White clustered crystals (MeOH), mp 171~172°C. Source: CI YI YE HUA JIAO *Zanthoxylum dimorphophyllum* var. *spinifolium*. Ref: 2121.



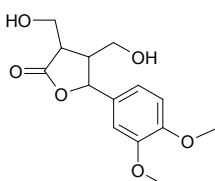
6027 2,3-Dihydroxy-2-methyl-butylolactone
 $C_5H_8O_4$ (132.12). White granular crystals (acetone). Pharm: Cytotoxic (stronger). Source: DA YE BAI TOU WENG *Anaphalis margaritacea*, GUAN GUANG MU *Tsoongiodendron odorum*. Ref: 2177, 3853.



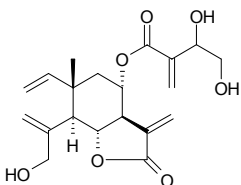
6028 2,5-Dihydroxymethyl-3,4-dihydropyrrolidine
 $C_6H_{13}NO_4$ (163.17). Pharm: Glucosidase I and α -, β -glucosidase inhibitor (insect); insect antifeedant (armyworms). Source: MAO YU TENG *Derris elliptica*. Ref: 658.



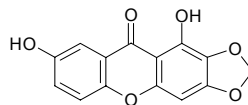
6029 2,3-Dihydroxymethyl-4-(3',4'-dimethoxyphenyl)- γ -butyrolactone
 $C_{14}H_{18}O_6$ (282.30). Colorless needles. Source: LIAN QIAO *Forsythia suspensa*. Ref: 2520.



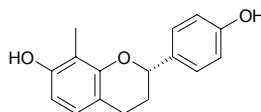
6030 8 α -(3,4-Dihydroxy-2-methylene-butanoyloxy)-dehydro-melitensin
 $C_{20}H_{26}O_7$ (378.43). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.25 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 0.125 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 0.125 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 1 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrochloron*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 0.5 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.25 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). Source: *Centaurea thessala* ssp. *drakiensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.



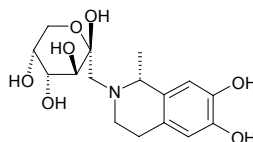
6031 1,7-Dihydroxy-2,3-methylenedioxyxanthone
 $C_{14}H_8O_6$ (272.22). Colorless acicular crystals (chloroform-methanol), mp 224~226°C, mp 245~247°C, mp 243~245°C. Pharm: Aldose reductase inhibitor (eye lens). Source: HUANG HUA YUAN ZHI *Polygala arillata*, JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*] (root and stem: yield = 0.00135%)^[4683]. Ref: 345, 658, 4683.



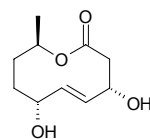
6032 7,4'-Dihydroxy-8-methylflavan
 $C_{16}H_{16}O_3$ (256.30). Pharm: Antibacterial (phytopathogenic bacteria, *Corynebacterium betae* and *Corynebacterium fascians*); antifungal (*Botrytis cinerea*, ED₅₀ = 32 μ g/mL). Source: LONG XUE SHU *Dracaena draco*. Ref: 658.



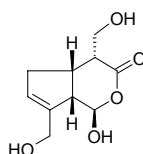
6033 6,7-Dihydroxy-1-methyl-N-(6'-fructopyranosyl)-1,2,3,4-tetrahydroisoquinoline
 $C_{16}H_{23}NO_7$ (341.36). Amorphous brownish solid, 105° dec (MeOH), [α]_D²⁵ = -45° (*c* = 1.90, MeOH). Source: GONG XING MA DOU LING *Aristolochia arcuata*. Ref: 2037.



6034 4,7-Dihydroxy-10-methyl-3,4,7,8,9,10-hexahydro-oxecin-2-one
 $C_{10}H_{16}O_4$ (200.24). Colorless crystals (MeOH-CHCl₃), mp 203~204°C, [α]_D²⁹ = -55° (*c* = 0.036, MeOH). Pharm: Antimalarial inactive (*Plasmodium falciparum* K1, 20 μ g/mL; control Dihydroartemisinin, IC₅₀ = 1.2ng/mL). Source: YONG CHONG CAO *Cordyceps militaris*. Ref: 4784.

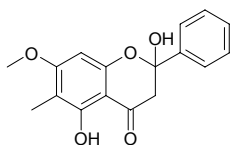


6035 (1R,4R,4aS,7aS)-4,7-Dihydroxymethyl-1-hydroxyl-1,4,4a,7a-tetrahydrocyclopenta-6-ene[e]pyran-3-one
 $C_{10}H_{14}O_5$ (214.22). Colorless gum, [α]_D²⁵ = +32.0° (*c* = 0.30, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

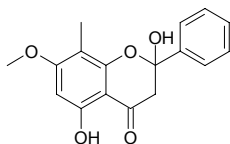


6036 2,5-Dihydroxy-6-methyl-7-methoxyflavanone

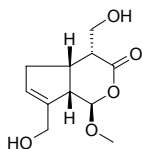
[186906-54-7] C₁₇H₁₆O₅ (300.31). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *Polygalifolium* (foliage). Ref: 3485.

**6037 2,5-Dihydroxy-8-methyl-7-methoxyflavanone**

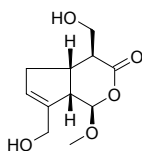
[186906-53-6] C₁₇H₁₆O₅ (300.31). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *Polygalifolium* (foliage). Ref: 3485.

**6038 (1R,4R,4aS,7aS)-4,7-Dihydroxymethyl-1-methoxyl-1,4,4a,7a-tetrahydrocyclopenta-6-ene[e]pyran-3-one**

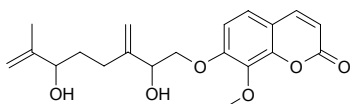
C₁₁H₁₆O₅ (228.25). Colorless gum, [α]_D²⁵ = +27.8° (c = 0.20, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

**6039 (1R,4S,4aS,7aS)-4,7-Dihydroxymethyl-1-methoxyl-1,4,4a,7a-tetrahydrocyclopenta-6-ene[e]pyran-3-one**

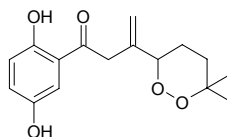
C₁₁H₁₆O₅ (228.25). Colorless gum, [α]_D²⁵ = -8.5° (c = 0.10, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

**6040 7-(2',6'-Dihydroxy-7'-methyl-3'-methyleneocta-7'-en-1-oxy)-8-methoxycoumarin**

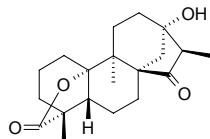
C₂₀H₂₄O₆ (360.41). Pharm: Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. Source: *Zanthoxylum* sp. Ref: 2176.

**6041 1,4-Dihydroxy-2-(7'-methyl-3'-methylene-1'-oxo-4',7'-peroxide-octyl)benzene**

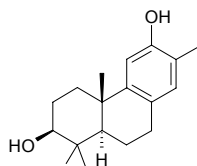
C₁₆H₂₀O₅ (292.33). White amorphous powder. Pharm: Antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 5.0μg, control Miconazole, MA = 1.0μg; *Cladosporium sphaerospermum*, MA = 10.0μg, Miconazole, MA = 1.0μg). Source: CU YE MAI HU JIAO *Piper crassinervium*. Ref: 3440.

**6042 10α,13α-Dihydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid γ-lactone**

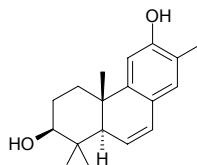
C₂₀H₂₈O₄ (332.44). Pale-yellow crystals, mp 85–88°C, [α]_D²⁵ = -68.0° (c = 0.1, MeOH). Pharm: Cytotoxic (Lu1, Col2, KB, LNCaP, hTERT-RPE1, ED₅₀ = 10–20μg/mL, HUVEC, ED₅₀ > 20μg/mL; control Taxol, ED₅₀ = 0.002μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**6043 3β,12-Dihydroxy-13-methyl-8,10,13-podocarpantriene**

C₁₈H₂₆O₂ (274.41). Semi solid, [α]_D²⁵ = -12.6° (c = 0.5, MeOH). Source: MA FENG SHU *Jatropha curcas* (aerial parts). Ref: 4287.

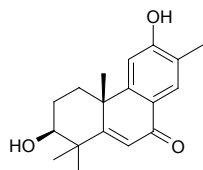
**6044 3β,12-Dihydroxy-13-methyl-6,8,11,13-podocarpatetraen**

C₁₈H₂₄O₂ (272.39). Yellow oil, [α]_D²⁰ = +86.7° (c = 0.91, acetone). Pharm: Cytotoxic (*in vitro*, pulmonary adenocarcinoma A549 cells, IC₅₀ = 31.8μmol/L; hepatocarcinoma Bel 7402 cells, IC₅₀ = 22.9μmol/L; gastric carcinoma BGC823 cells, IC₅₀ = 21.1μmol/L; colorectal adenocarcinoma HCT8 cells, IC₅₀ = 21.8μmol/L; ovarian cancer A2780 cells, IC₅₀ = 23.7μmol/L). Source: YI YE QIU *Securinega suffruticosa* (callus). Ref: 4544.

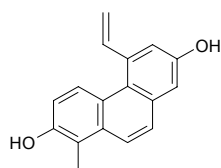


6045 3 β ,12-Dihydroxy-13-methyl-5,8,11,13-podocarpataetraen-7-one

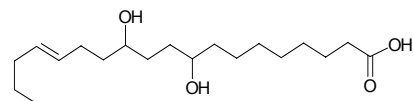
C₁₈H₂₂O₃ (286.37). Pale yellow oil, $[\alpha]_D^{20} = -56.6^\circ$ ($c = 0.09$, acetone). **Pharm:** Cytotoxic (*in vitro*, pulmonary adenocarcinoma A549 cells, IC₅₀ = 31.6 μ mol/L; hepatocarcinoma Bel 7402 cells, IC₅₀ = 26.5 μ mol/L; gastric carcinoma BGC823 cells, IC₅₀ = 20.0 μ mol/L; colorectal adenocarcinoma HCT8 cells, IC₅₀ = 22.0 μ mol/L; ovarian cancer A2780 cells, IC₅₀ = 21.8 μ mol/L). **Source:** YI YE QIU *Securinega suffruticosa* (callus). **Ref:** 4544.

**6046 2,7-Dihydroxy-1-methyl-5-vinylphenanthrene**

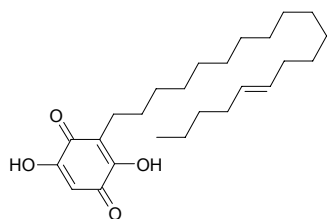
C₁₇H₁₄O₂ (250.30). **Source:** JIAN DENG XIN CAO *Juncus acutus*. **Ref:** 1965.

**6047 9,12-Dihydroxy-15-nonadecenoic acid**

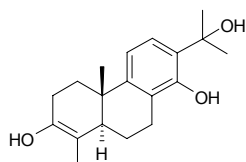
C₁₉H₃₆O₄ (328.50). **Source:** CU LIU GUO *Hippophae rhamnoides*. **Ref:** 2.

**6048 2,5-Dihydroxy-3-(nonadec-14-enyl)-benzoquinone**

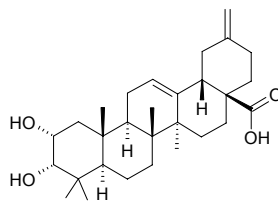
C₂₅H₄₀O₄ (404.60). Yellow brown crystals (MeOH), mp 138~139°C, $[\alpha]_D^{25} = -40^\circ$ ($c = 1.0$, CH₂Cl₂). **Source:** PI ZHEN DU JING SHAN *Maesa lanceolata* (fruit). **Ref:** 3464.

**6049 3,15-Dihydroxy-18-norabieta-3,8,11,13-tetraene**

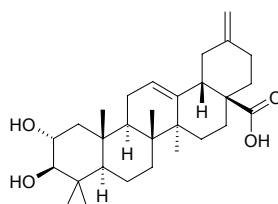
C₁₉H₂₆O₃ (302.42). White-brown powder, $[\alpha]_D^{24} = +23.5^\circ$ ($c = 2.9$, MeOH). **Pharm:** Cytotoxic (KB, IC₅₀ > 66 μ mol/L, control Podophyllotoxin, IC₅₀ = 0.014 μ mol/L); antibacterial (*Bacillus cereus*, MIC = 423.84 μ mol/L; control Chloramphenicol, MIC = 6.19 μ mol/L). **Source:** GAO MEI YING BAN *Crossopetalum gaueri* (root). **Ref:** 3969.

**6050 2 α ,3 α -Dihydroxy-30-noroleana-12,20(29)-dien-28-oic acid**

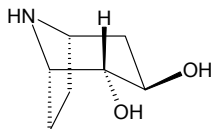
C₂₉H₄₄O₄ (456.67). Amorphous solid, $[\alpha]_D^{27} = +142.0^\circ$ ($c = 0.10$, MeOH). **Source:** SAN YE MU TONG *Akebia trifoliata* (stem). **Ref:** 4545.

**6051 2 α ,3 β -Dihydroxy-30-noroleana-12,20(29)-dien-28-oic acid**

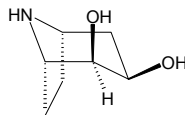
C₂₉H₄₄O₄ (456.67). Amorphous solid, $[\alpha]_D^{27} = +70.0^\circ$ ($c = 0.10$, MeOH). **Source:** SAN YE MU TONG *Akebia trifoliata* (stem). **Ref:** 4545.

**6052 2 α ,3 β -Dihydroxynortropane**

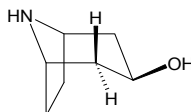
C₇H₁₃NO₂ (143.19). Colorless powder, $[\alpha]_D = -33.9^\circ$ ($c = 0.32$, H₂O). **Pharm:** α -Glucosidase inhibitor inactive (control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). **Source:** SANG SHI *Morus alba*. **Ref:** 4161.

**6053 2 β ,3 β -Dihydroxynortropane**

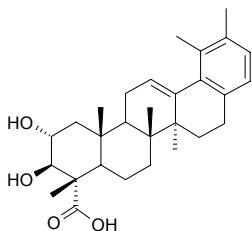
C₇H₁₃NO₂ (143.19). Colorless powder, $[\alpha]_D = -34.0^\circ$ ($c = 0.61$, H₂O). **Pharm:** α -Glucosidase inhibitor inactive (control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). **Source:** SANG SHI *Morus alba*. **Ref:** 4161.

**6054 3 β ,6-*exo*-Dihydroxynortropane**

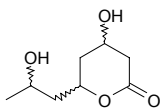
C₇H₁₃NO₂ (143.19). Colorless powder, $[\alpha]_D = -1.3^\circ$ ($c = 0.60$, H₂O). **Pharm:** α -Glucosidase inhibitor (IC₅₀ = 33mmol/L, control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). **Source:** SANG SHI *Morus alba*. **Ref:** 4161.



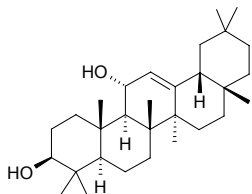
6055 2 α ,3 β -Dihydroxy-28-norurs-12,17,19(20),21-tetraen-23-oic acid
 C₂₉H₄₀O₄ (452.64). White amorphous powder, $[\alpha]_D^{28.6} = +19.8^\circ$ ($c = 0.21$, MeOH). **Pharm:** Cytotoxic (SGC cell, EC₅₀ = 10.2 μ mol/L). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.



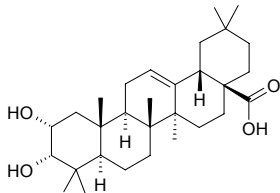
6056 3,7-Dihydroxy-5-octanolide
 C₈H₁₄O₄ (174.20). White powder, mp 93.5~94.0°C, $[\alpha]_D^{26} = -24.4^\circ$ ($c = 0.086$, EtOH). **Source:** YE YA CHUN *Euscaphis japonica*. **Ref:** 2204.



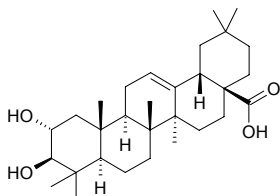
6057 3 β ,11 α -Dihydroxy-olean-12-ene
 C₃₀H₅₀O₂ (442.73). White crystals (acetone), easily soluble in CHCl₃ and MeOH, mp 192~196°C. **Source:** SI CHUAN QING FENG TENG *Sabia schumanniana* (aerial parts). **Ref:** 4883.



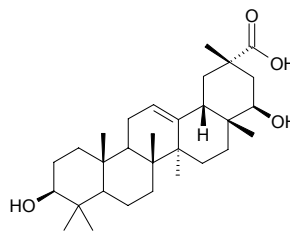
6058 2 α ,3 α -Dihydroxyolean-12-en-28-oic acid
 C₃₀H₄₈O₄ (472.71). **Source:** SAN YE MU TONG *Akebia trifoliata* (stem). **Ref:** 4545.



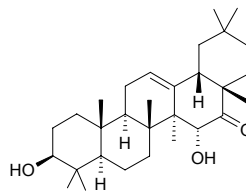
6059 2 α ,3 β -Dihydroxyolean-12-en-28-oic acid
 (–)-Maslinic acid; Cratogeolic acid [4373-41-5] C₃₀H₄₈O₄ (472.71). mp (–) 263~265°C. **Source:** DA ZAO *Ziziphus jujuba*, HUO XIANG *Agastache rugosus*, SAN YE MU TONG *Akebia trifoliata* (stem), YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.00083%). **Ref:** 2, 660, 1247, 4163, 4545.



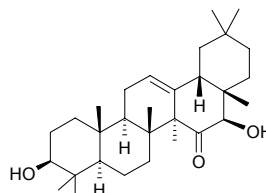
6060 3 β ,22 β -Dihydroxyolean-12-en-29-oic acid
 C₃₀H₄₈O₄ (472.71). **Pharm:** DPPH scavenger inactive (for 40 μ mol/L DPPH radical, SC₅₀ > 40 μ mol/L). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.



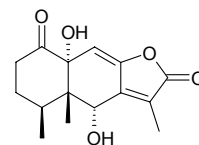
6061 3 β ,15 α -Dihydroxy-olean-12-en-16-one
 Eriocarpin A; 3 β ,15 α -Dihydroxy-olean-12(13)-en-16-one C₃₀H₄₈O₃ (456.72). Colorless acicular crystals (MeOH), mp 195~197°C, $[\alpha]_D^{20} = +0^\circ$ ($c = 0.011$, MeOH). **Source:** MAO GUO YU TENG *Derris eriocarpa*, YUN NAN GE TENG *Pueraria peduncularis*. **Ref:** 665, 2262.



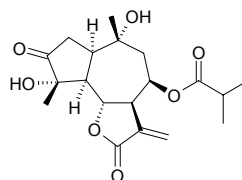
6062 3 β ,16 β -Dihydroxy-olean-12-en-15-one
 C₃₀H₄₈O₃ (456.72). Colorless acicular crystals mp 218~220°C. **Source:** YUN NAN GE TENG *Pueraria peduncularis*. **Ref:** 853.



6063 6 α ,10 α -Dihydroxy-1-oxoeremophila-7(11),8(9)-dien-12,8-olide
 C₁₅H₁₈O₅ (278.31). **Source:** *Ligularia virgaurea* ssp. *oligocephala* (whole herb). **Ref:** 4981.

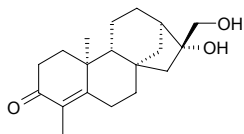


6064 4 α ,10 α -Dihydroxy-3-oxo-8 β -isobutyryloxyguaia-11(13)-en-12,6 α -olide
 C₁₉H₂₆O₇ (366.41). **Pharm:** Cytotoxic (antiproliferative, Col2 cells, IC₅₀ = 18.9 μ g/mL); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μ g/mL, activity denotes percentage of cells differentiated = 32.4%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, 10 μ g/mL, rel-InRt = 48.7%, control DMBA, rel-InRt = 100%). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0063%dw). **Ref:** 4622.

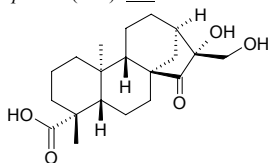


6065 16 α ,17-Dihydroxy-3-oxo-19-nor-ent-kaur-4-ene

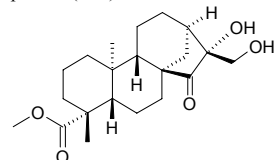
C₁₉H₂₈O₃ (304.43). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC < 1.5mg/mL; *Bacillus cereus* and *Pseudomonas aeruginosa*, MIC = 2.0~3.0mg/mL; *Escherichia coli*, inactive). **Source:** *Antennaria geyeri* (aerial parts). **Ref:** 3853.

**6066 16 α ,17-Dihydroxy-15-oxo-ent-kaur-19-oic acid**

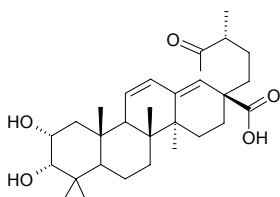
C₂₀H₃₀O₅ (350.46). Brownish solid, mp 137~142°C, [α]_D²⁵ = +5.0° (*c* = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.

**6067 16 α ,17-Dihydroxy-15-oxo-ent-kaur-19-oic acid methyl ester**

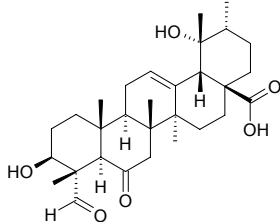
C₂₁H₃₂O₅ (364.49). White solid, mp 187~193°C (dec), [α]_D²⁵ = +27.0° (*c* = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.

**6068 2 α ,3 α -Dihydroxy-19-oxo-18,19-seco-urs-11,13(18)-dien-28-oic acid**

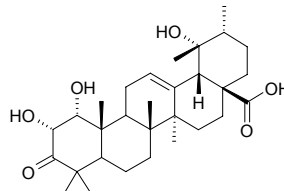
C₃₀H₄₆O₅ (486.70). White amorphous powder. **Source:** FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). **Ref:** 4561.

**6069 3 β ,19 α -Dihydroxy-6-oxo-urs-12-en-23-al-28-oic acid**

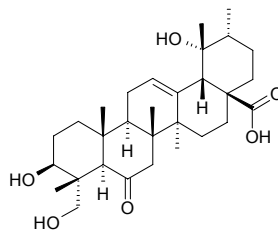
C₃₀H₄₄O₆ (500.68). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**6070 2 α ,19 α -Dihydroxy-3-oxo-12-ursen-28-oic acid**

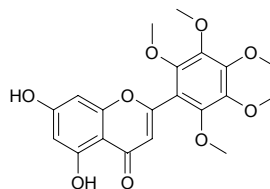
C₃₀H₄₆O₆ (502.70). **Pharm:** Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC₅₀ = 40.0μmol/L; control Cyclosporine A, IC₅₀ = 0.012μmol/L). **Source:** TAI WAN PI PA *Eriobotrya deflexa* (leaf). **Ref:** 3064.

**6071 3 β ,19 α -Dihydroxy-6-oxo-urs-12-en-23-ol-28-oic acid**

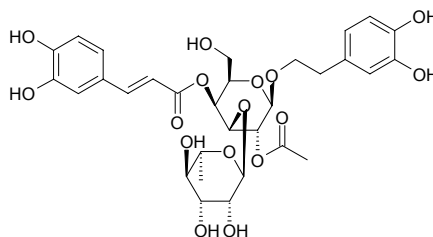
C₃₀H₄₆O₆ (502.70). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**6072 5,7-Dihydroxy-2',3',4',5',6'-pentamethoxyflavone**

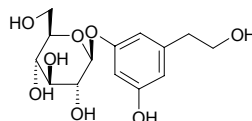
C₂₀H₂₀O₉ (404.38). **Pharm:** Anti-HIV-1 inactive. **Source:** TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). **Ref:** 4963.

**6073 3,4-Dihydroxyphenethoxy-O- α -L-rhamnopyranosyl-(1→3)- β -D-(2-O-acetyl-4-O-caffeoyl)-galactopyranoside**

C₃₁H₃₈O₁₆ (666.64). White amorphous powder, [α]_D²⁸ = -43.34° (*c* = 0.47, MeOH). **Source:** LAI JIANG TENG *Brandisia hancei* (whole herb). **Ref:** 4569.

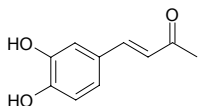
**6074 3,5-Dihydroxyphenethyl alcohol 3-O- β -glucopyranoside**

C₁₄H₂₀O₈ (316.31). Amorphous powder, [α]_D²³ = -33.5° (*c* = 0.18, MeOH). **Pharm:** Antioxidant (DPPH scavenger, DPPH radical 15μmol/L: 10μmol/L, ScRt = 41.4%; control BHA, 10μmol/L, ScRt = 23.0%; Vitamin E, 10μmol/L, ScRt = 41.1%). **Source:** JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*. **Ref:** 3846.

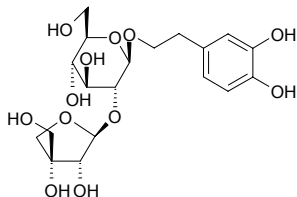


6075 (E)-4-(3,4-Dihydroxyphenyl)but-3-en-2-one

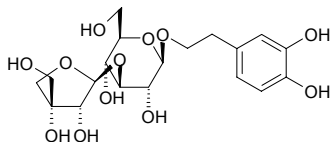
$C_{10}H_{10}O_3$ (178.19). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} > 0.28 \mu\text{mol/L}$; BGC823, $IC_{50} = 0.243 \mu\text{mol/L}$; MCF7, $IC_{50} = 0.141 \mu\text{mol/L}$; Bel7402, $IC_{50} = 0.153 \mu\text{mol/L}$; Ketr3, $IC_{50} = 0.245 \mu\text{mol/L}$; HCT8, $IC_{50} = 0.227 \mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032 \mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043 \mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018 \mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012 \mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049 \mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015 \mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0062%dw). **Ref:** 4747.

**6076 3,4-Dihydroxyphenylethanol-8-O-[β-D-apiofuranosyl(1→2)]-β-D-glucopyranoside**

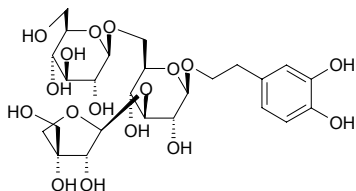
$C_{19}H_{28}O_{12}$ (448.43). Yellow-white amorphous powder, has accessibility, easily soluble in water and methanol, $[\alpha]_D^{25} = -59.3^\circ$ ($c = 0.14$, MeOH). **Source:** SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*]. **Ref:** 2463.

**6077 3,4-Dihydroxyphenylethanol-8-O-[β-D-apiofuranosyl(1→3)]-β-D-glucopyranoside**

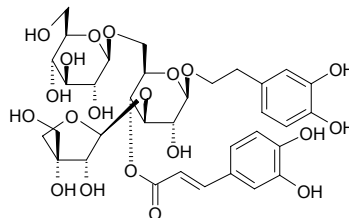
$C_{19}H_{28}O_{12}$ (447.43). Yellow-white amorphous powder, has accessibility, easily soluble in water and methanol, $[\alpha]_D^{25} = -61.6^\circ$ ($c = 0.16$, MeOH). **Source:** SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*]. **Ref:** 2460.

**6078 3,4-Dihydroxyphenylethanol-8-O-[β-D-apiofuranosyl(1→3)]-β-D-glucopyranosyl(1→6)]-β-D-glucopyranoside**

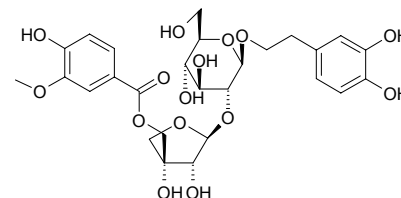
$C_{25}H_{38}O_{17}$ (610.57). Yellow-white amorphous powder, has accessibility, easily soluble in water and methanol, $[\alpha]_D^{25} = -70.5^\circ$ ($c = 0.12$, MeOH). **Source:** SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*]. **Ref:** 2460.

**6079 3,4-Dihydroxyphenylethanol-8-O-[4-O-trans-caffeoyl-β-D-apiofuranosyl(1→3)]-β-D-glucopyranosyl(1→6)]-β-D-glucopyranoside**

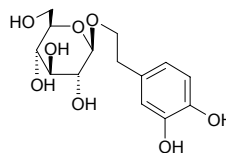
$C_{34}H_{44}O_{20}$ (772.72). Yellow-white amorphous powder, has accessibility, easily soluble in water and methanol, $[\alpha]_D^{25} = -65.6^\circ$ ($c = 0.09$, MeOH). **Source:** SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*]. **Ref:** 2460.

**6080 3,4-Dihydroxyphenylethanol-8-O-[(5-O-vanilloyl)-β-D-apiofuranosyl(1→2)]-β-D-glucopyranoside**

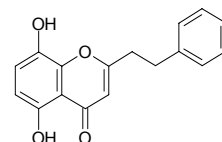
$C_{27}H_{34}O_{15}$ (598.56). White amorphous powder, has accessibility, easily soluble in water and methanol, $[\alpha]_D^{25} = -54.8^\circ$ ($c = 0.42$, MeOH). **Source:** SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*]. **Ref:** 2463.

**6081 3,4-Dihydroxyphenylethyl alcohol glucoside**

2-(3,4-Dihydroxy-phenyl)-ethyl-*O*-β-*D*-glucopyranoside $C_{14}H_{20}O_8$ (316.31). **Pharm:** Antioxidant (DPPH scavenger, DPPH radical $15 \mu\text{mol/L}$: $10 \mu\text{mol/L}$, ScRt = 41.4%; control BHA, $10 \mu\text{mol/L}$, ScRt = 23.0%; Vitamin E, $10 \mu\text{mol/L}$, ScRt = 41.1%)^[3846], antioxidant (hydroxyl radical scavenger, $IC_{50} = 55.9 \mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8 \mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 86.5 \mu\text{mol/L}$, Ascorbic acid, $IC_{50} = 86.2 \mu\text{mol/L}$)^[4289]. **Source:** HUANG LIAN *Coptis chinensis*, JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root)^[4289]. **Ref:** 2, 3846, 4289.

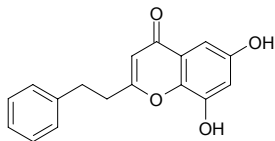
**6082 5,8-Dihydroxy-2-(2-phenylethyl)chromone**

$C_{17}H_{14}O_4$ (282.30). Colorless lump crystals, mp 159–160°C. **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 660.

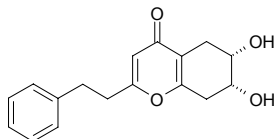


6083 6,8-Dihydroxy-2-(2-phenylethyl)chromone

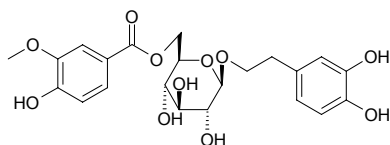
C₁₇H₁₄O₄ (282.30). Colorless needles, mp 218–220°C (MeOH). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 4173.

**6084 6,7-Dihydroxy-2-(2-phenylethyl)-5,6,7,8-tetrahydrochromone**

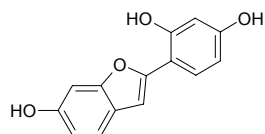
C₁₇H₁₈O₄ (286.33). Brown amorphous solid, $[\alpha]_D^{25} = -15.1^\circ$ ($c = 1.0$, MeOH). Source: BAI MU XIANG *Aquilaria sinensis* (withered wood). Ref: 4339.

**6085 1'-O-β-D-(3,4-Dihydroxyphenyl)-ethyl-6'-O-vanilloyl-glucopyranoside**

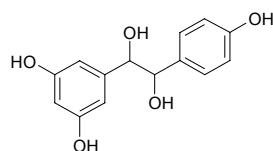
C₂₂H₂₆O₁₁ (466.45). White amorphous powder, having hygroscopicity, mp 145–147°C, $[\alpha]_D^{25} = -42.1^\circ$ ($c = 0.41$, MeOH). Source: SHI DAN CAO *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*] (whole herb). Ref: 4849.

**6086 2-(2,4-Dihydroxyphenyl)-6-hydroxybenzofuran**

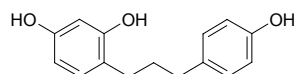
C₁₄H₁₀O₄ (242.23). Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.2 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2356.

**6087 1-(3',5'-Dihydroxyphenyl)-2-(4'-hydroxyphenyl)ethane-1,2-diol**

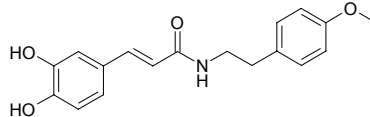
C₁₄H₁₄O₅ (262.26). Amorphous powder, $[\alpha]_D^{25} = +13.5^\circ$ ($c = 0.32$, MeOH). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 4186.

**6088 1-(2,4-Dihydroxyphenyl)-3-(4-hydroxyphenyl)propane**

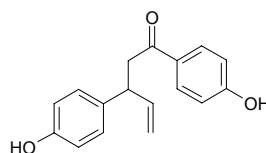
C₁₅H₁₆O₃ (244.29). Brown powder, mp 92–93°C. Pharm: Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**6089 7'-(3',4'-Dihydroxyphenyl)-N-[(4-methoxyphenyl)ethyl]propenamide**

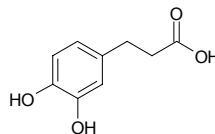
C₁₈H₁₉NO₄ (313.36). Colorless solid. Pharm: α-Glucosidase inhibitor (type VI, IC₅₀ = 103.58 μmol/L, control 1-Deoxyojirimycin, IC₅₀ = 300 μmol/L); thrombin inhibitor inactive; β-glucuronidase inhibitor inactive. Source: YUN NAN TU SI ZI *Cuscuta reflexa*. Ref: 4155.

**6090 1,3-Di-p-hydroxyphenyl-4-penten-1-one**

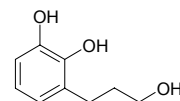
C₁₇H₁₆O₃ (268.32). Pharm: Cytotoxic (*in vitro*, HOG.R5, CC₅₀ = 20.6 μg/mL (76.8 μmol/L), control Ellipticine, HOG.R5, IC₅₀ = 0.02 μg/mL (0.08 μmol/L)); cytotoxic inactive (KB, Col2, LNCaP, Lu1, HUVEC, IC₅₀ > 20 μg/mL); anti-HIV (IC₅₀ = 20 μg/mL (74.6 μmol/L)). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root; yield = 0.00005% dw). Ref: 3009.

**6091 3-(3,4-Dihydroxyphenyl)propanoic acid**

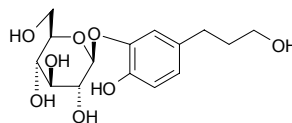
C₉H₁₀O₄ (182.18). Pharm: Tyrosine kinase inhibitor (IC₅₀ = 418 μmol/L, interleukin-2 inducible T-cell kinase). Source: MO LEI NAN YANG SHEN *Polyscias murrayi*. Ref: 5252.

**6092 3-(3,4-Dihydroxyphenyl)-1-propanol**

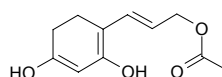
C₉H₁₂O₃ (168.19). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4297.

**6093 3,4-Dihydroxyphenylpropanol β-D-glucopyranoside**

C₁₃H₂₂O₈ (330.34). Amorphous powder, $[\alpha]_D^{23} = -41^\circ$ ($c = 0.2$, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

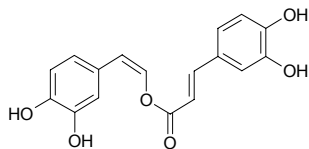
**6094 3-(3,4-Dihydroxyphenyl)-2-propen-1-ethanoate**

C₁₁H₁₄O₄ (210.23). Pharm: α-Glucosidase inhibitor inactive (type VI, control 1-Deoxyojirimycin, IC₅₀ = 0.3 mmol/L); thrombin inhibitor inactive; β-glucuronidase inhibitor inactive^[4155]. Source: YUN NAN TU SI ZI *Cuscuta reflexa*. Ref: 4155.

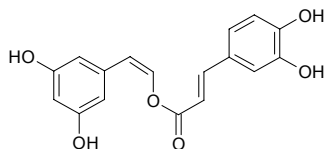


6095 3-(3,4-Dihydroxyphenyl)-2-propenoic acid (Z,E)-2-(3,4-dihydroxyphenyl) ethenyl ester

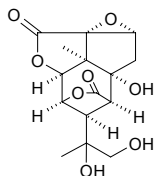
[55486-06-1] C₁₇H₁₄O₆ (314.29). Yellow acicular crystals (methanol–water), mp 183~185°C (dec). **Pharm:** Xanthinoxidase inhibitor (*in vitro*, IC₅₀ = 0.021 μg/mL). **Source:** JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*]. **Ref:** 1006.

**6096 3-(3,4-Dihydroxyphenyl)-2-propenoic acid (Z,E)-2-(3,5-dihydroxyphenyl) ethenyl ester**

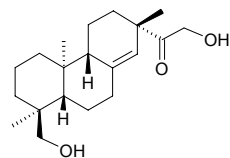
[130233-90-8] C₁₇H₁₄O₆ (314.29). Yellow thin crystals (methanol–water), mp 188~190°C. **Pharm:** Xanthinoxidase inhibitor (*in vitro*, IC₅₀ = 0.124 μg/mL). **Source:** JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*]. **Ref:** 1006.

**6097 Dihydroxypicrotoxinin**

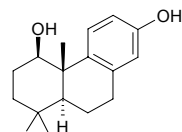
C₁₅H₁₈O₈ (326.31). Colorless needles, mp 260~262°C, [α]_D¹⁷ = -65° (c = 1.34, EtOH) **Source:** *Anamirta cocculus*. **Ref:** 1876.

**6098 ent-16,18-Dihydroxy-8(14)-pimaren-15-one**

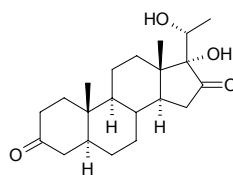
C₂₀H₃₂O₃ (320.48). Viscous oil, [α]_D²⁶ = -9.1° (c = 0.55, MeOH). **Source:** HAI NAN JIAN MU *Dysoxylum hainanense*. **Ref:** 750.

**6099 1β,13-Dihydroxy-8,11,13-podocarpatriene**

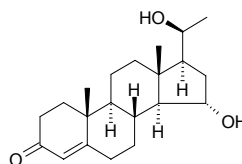
C₁₇H₂₄O₂ (260.38). Yellow amorphous solid, [α]_D²³ = -3.1° (c = 0.55, CHCl₃). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4182.

**6100 17α,20R-Dihydroxypregnan-3,16-dione**

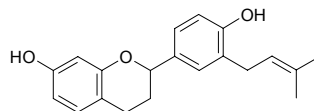
C₂₁H₃₂O₄ (348.49). Colorless acicular crystals (Me₂CO), [α]_D²⁶ = -106.3° (c = 0.31, CHCl₃). **Source:** YA LUO CHUN *Cipadessa baccifera*. **Ref:** 745.

**6101 15α,20β-Dihydroxy-Δ⁴-pregnen-3-one**

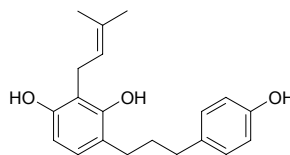
C₂₁H₃₂O₃ (332.49). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 8.

**6102 (2S)-7,4'-Dihydroxy-3'-prenylflavan**

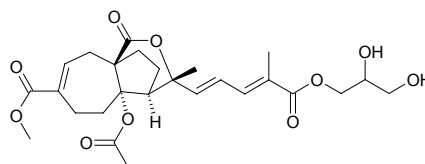
C₂₀H₂₂O₃ (310.4). Brown powder, mp 116~117°C. **Pharm:** Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090.

**6103 1-(2,4-Dihydroxy-3-prenylphenyl)-3-(4-hydroxyphenyl)-propane**

Anticancer Benzenoid PMV70P691-003 C₂₀H₂₄O₃ (312.41). Brown powder, mp 115~116°C. **Pharm:** Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]; cytotoxic (antioxidant assay)^[5038]. **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.

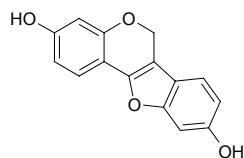
**6104 2',3'-Dihydroxy-1'-propoxypseudolarate B**

C₂₆H₃₄O₁₀ (506.55). White amorphous powder, [α]_D²⁰ = -18.3° (c = 0.46, Me₂CO). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex; yield = 0.000047%dw). **Ref:** 4637.

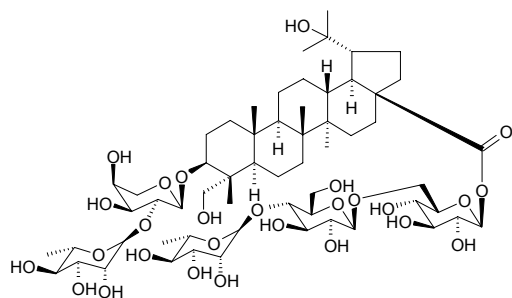


6105 3,9-Dihydroxypteroicarp-6a-ene

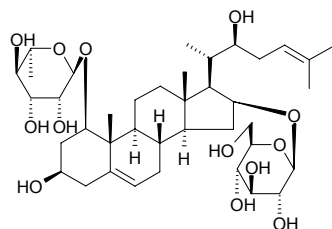
$C_{15}H_{10}O_4$ (254.24). **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2 \mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07 \mu\text{mol/L}$); Antiallergic (50mg/kg, InRt = 49.6%, control EGCg, InRt = 12.8%). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.

**6106 20,23-Dihydroxy-3β-[(O-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl)oxy]lupan-28-oic acid 28-O-α-L-rhamnopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl ester**

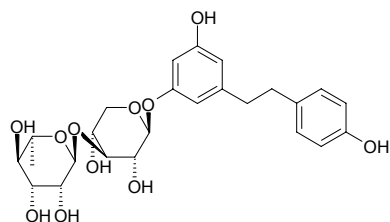
$C_{59}H_{98}O_{27}$ (1239.42). Amorphous solid, $[\alpha]_D^{26} = -48.0^\circ$ ($c = 0.10$, MeOH). **Source:** BAI TOU WENG *Pulsatilla chinensis*. **Ref:** 3086.

**6107 (22S)-3β,22-Dihydroxy-1β-[(α-L-rhamnopyranosyl)oxy]cholest-5,24-dien-16β-yl β-D-glucopyranoside**

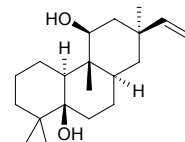
$C_{39}H_{64}O_{13}$ (740.94). Amorphous solid, $[\alpha]_D^{25} = -40.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60 cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = 0.025 \mu\text{mol/L}$). **Source:** XIA FENG XIN ZI *Galtonia candicans* (bulb). **Ref:** 4116.

**6108 5,4'-Dihydroxy-3-α-L-rhamnosyl-(1''→3')-β-D-xylopyranosyloxy-bibenzyl**

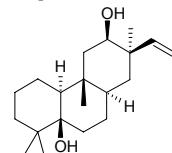
$C_{25}H_{32}O_{11}$ (508.53). Amorphous yellowish color, $>179^\circ\text{C}$ (glass transition), $[\alpha]_D^{20} = -39^\circ$ ($c = 0.235$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (8.93 \pm 0.94) \mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = (2.49 \pm 0.32) \mu\text{g/mL}$; Caffeic acid, $IC_{50} = (1.78 \pm 0.03) \mu\text{g/mL}$; Chlorogenic acid, $IC_{50} = (1.28 \pm 0.38) \mu\text{g/mL}$). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**6109 5β,11β-Dihydroxy-ros-15-ene**

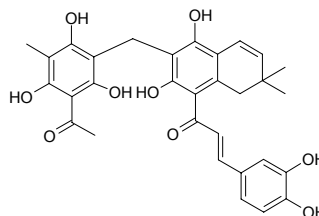
$C_{20}H_{34}O_2$ (306.49). $[\alpha]_D^{20} = +68^\circ$ ($c = 0.23$, CHCl_3). **Source:** *Gackstroemia decipiens*. **Ref:** 3907.

**6110 5β,12β-Dihydroxy-ros-15-ene**

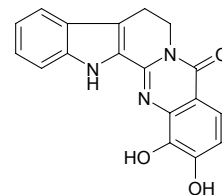
$C_{20}H_{34}O_2$ (306.49). $[\alpha]_D^{20} = +57^\circ$ ($c = 0.27$, CHCl_3). **Source:** *Gackstroemia decipiens*. **Ref:** 3907.

**6111 3,4-Dihydroxyrottlerin**

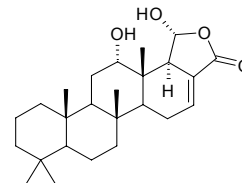
[24650-82-6] $C_{31}H_{30}O_9$ (546.58). mp 200°C . **Source:** LV SONG QIU MAO *Mallotus philippinensis*. **Ref:** 6.

**6112 1,2-Dihydroxyrutacarpine**

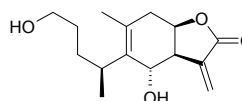
$C_{18}H_{13}N_3O_3$ (319.32). Yellow amorphous solid. **Source:** *Bouchardatia neurococca*. **Ref:** 3445.

**6113 12,25-Dihydroxy-16-scalaren-24,25-olide**

$C_{25}H_{38}O_4$ (402.58). **Source:** *Cacospongia scalaris*. **Ref:** 1521.

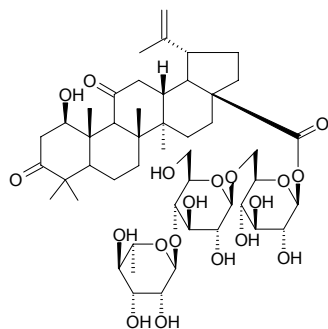
**6114 1,6α-Dihydroxy-4aH-1,10-secoeudesma-5(10),11(13)-dien-12,8β-olide**

$C_{15}H_{22}O_4$ (266.34). **Pharm:** Cytotoxic (SMMC-7721 $IC_{50} = (52.22 \pm 1.25) \mu\text{g/mL}$, Vincristine $IC_{50} = (30.35 \pm 2.23) \mu\text{g/mL}$; HO-8910 $IC_{50} = (21.32 \pm 2.64) \mu\text{g/mL}$, Vincristine $IC_{50} = (20.74 \pm 1.91) \mu\text{g/mL}$)^[5422]. **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 5422.



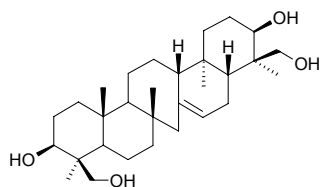
6115 (1R)-1,11- α -Dihydroxy-3,4-seco-lupa-4(23), 20(29)-diene-3,28-dioic acid 3,11-lactone 28-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl (1 \rightarrow 6)- β -D-glucopyranoside

$C_{48}H_{74}O_{19}$ (955.11). White needles, mp 232–234°C [α]_D¹⁴ = +11.7° (c = 0.5, MeOH). Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 469.



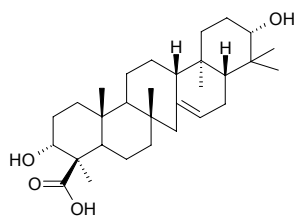
6116 3 α ,21 β -Dihydroxyserrat-14-ene-24,29-diol

$C_{30}H_{50}O_4$ (474.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00022%dw). Ref: 4729.



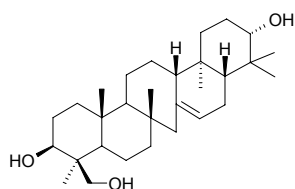
6117 3 α ,21 α -Dihydroxyserrat-14-en-24-oic acid

$C_{30}H_{48}O_4$ (472.71). White powder (CHCl₃–CH₃OH), mp 304–306°C, [α]_D²⁰ = –0.6° (c = 0.78, C₅D₅N). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000036%dw). Ref: 4729.



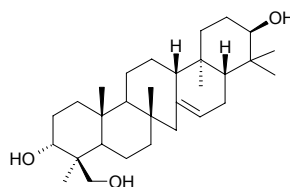
6118 3 β ,21 α -Dihydroxyserrat-14-en-24-ol

$C_{30}H_{50}O_3$ (458.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00017%dw). Ref: 4729.



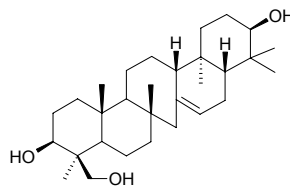
6119 3 α ,21 β -Dihydroxyserrat-14-en-24-ol

$C_{30}H_{50}O_3$ (458.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.0001%dw). Ref: 4729.



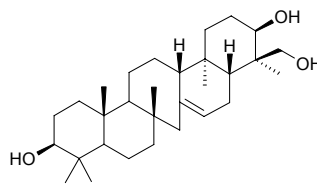
6120 3 β ,21 β -Dihydroxyserrat-14-en-24-ol

$C_{30}H_{50}O_3$ (458.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000032%dw). Ref: 4729.



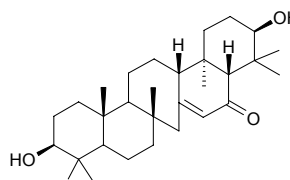
6121 3 β ,21 β -Dihydroxyserrat-14-en-29-ol

$C_{30}H_{50}O_3$ (458.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00025%dw). Ref: 4729.



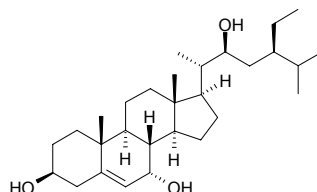
6122 3 β ,21 β -Dihydroxyserrat-14-en-16-one

16-Oxo-21-episerratenediol $C_{30}H_{48}O_3$ (456.72). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000084%dw), SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 1410, 2811, 4729.



6123 7 α ,22S-Dihydroxysitosterol

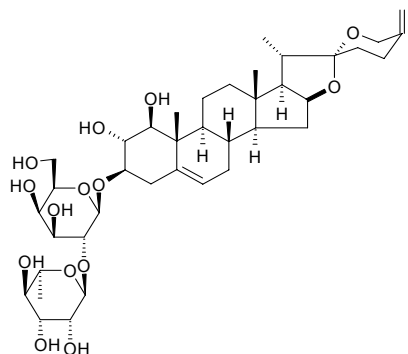
$C_{29}H_{53}O_3$ (446.72). White powder, mp 183–185°C Source: MA BIAN CAO *Verbena officinalis*. Ref: 2173.



6124 1 β ,2 α -Dihydroxyspirosta-5,25(27)-dien-3 β -yl *O*- α -D-rhamnopyranosyl-(1 \rightarrow 2)- β -L-galactopyranoside

C₃₉H₆₀O₁₄ (752.90). Amorphous solid, $[\alpha]_D^{25} = -70.7^\circ$ ($c = 0.20$, MeOH).

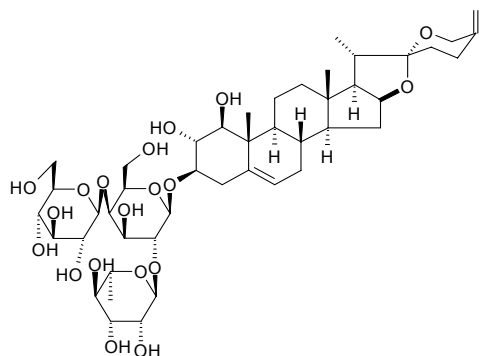
Source: *Cestrum sendtnerianum* (leaf). Ref: 5105.



6125 1 β ,2 α -Dihydroxyspirosta-5,25(27)-dien-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)]- β -D-galactopyranoside

C₄₅H₇₀O₁₉ (915.05). Amorphous solid, $[\alpha]_D^{25} = -124.4^\circ$ ($c = 0.25$, MeOH).

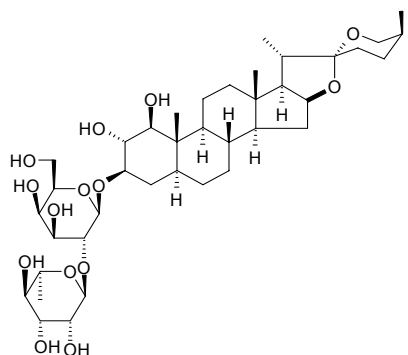
Pharm: Cytotoxic (HL-60, IC₅₀ = 7.7 μ g/mL, control Etoposide, IC₅₀ = 0.75 μ g/mL). Source: *Cestrum sendtnerianum* (leaf). Ref: 5105.



6126 (25*R*)-1 β ,2 α -Dihydroxy-5 α -spirostan-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside

C₃₉H₆₄O₁₄ (756.94). Amorphous solid, $[\alpha]_D^{25} = -56.4^\circ$ ($c = 0.11$, MeOH).

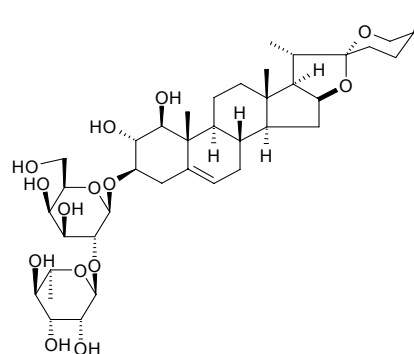
Source: *Cestrum sendtnerianum* (leaf). Ref: 5105.



6127 (25*R*)-1 β ,2 α -Dihydroxyspirost-5-en-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside

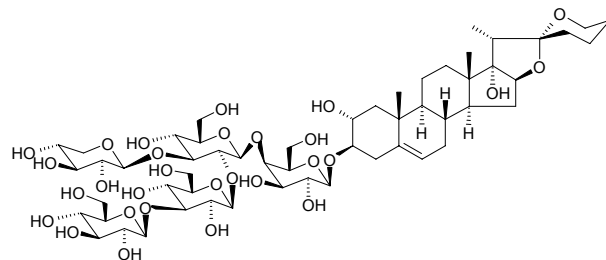
C₃₉H₆₂O₁₄ (754.92). Amorphous solid, $[\alpha]_D^{25} = -57.1^\circ$ ($c = 0.14$, MeOH).

Source: *Cestrum sendtnerianum* (leaf). Ref: 5105.



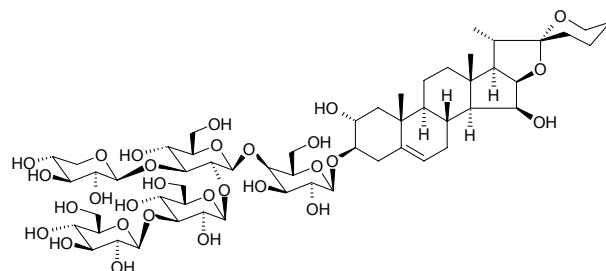
6128 (25*R*)-2 α ,17 α -Dihydroxyspirost-5-en-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₅₆H₉₀O₂₉ (1227.32). Amorphous powder, $[\alpha]_D^{24} = -57^\circ$ ($c = 0.2$, CHCl₃:MeOH, 1:1). Pharm: Cytotoxic (HSC-2 cells, LD₅₀ = 5.5 μ g/mL; HGF, LD₅₀ = 34 μ g/mL)^[3023]; cytotoxic (*in vitro*, HSC-2, LD₅₀ = 4.4 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL)^[4667]. Source: YE XIANG SHU *Cestrum nocturnum* (leaf: yield = 0.0077%fw). Ref: 3023, 4667.



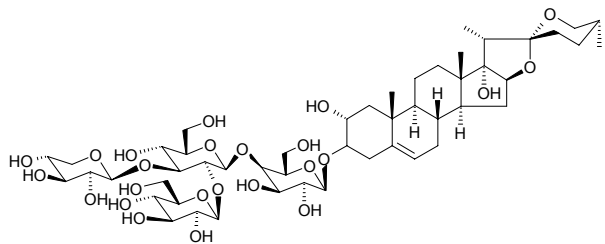
6129 (25*R*)-2 α ,15 β -Dihydroxyspirost-5-en-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₅₆H₉₀O₂₉ (1227.32). Amorphous powder, $[\alpha]_D^{24} = -60^\circ$ ($c = 0.13$, CHCl₃:MeOH, 1:1). Pharm: Cytotoxic (HSC-2 cells, LD₅₀ = 4.4 μ g/mL; HGF, LD₅₀ = 22 μ g/mL). Source: YE XIANG SHU *Cestrum nocturnum* (leaf: yield = 0.0071%fw). Ref: 3023.



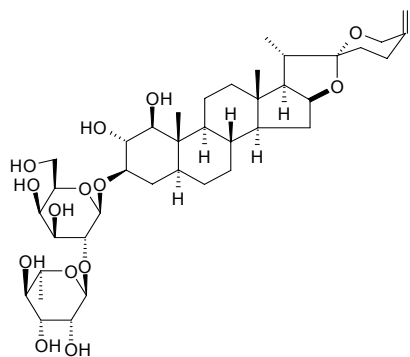
6130 (25R)-2 α ,17 α -Dihydroxyspirost-5-en-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₅₀H₈₀O₂₄ (1065.18). Amorphous powder, $[\alpha]_D^{24} = -70.8^\circ$ ($c = 0.13$, CHCl₃:MeOH, 1:1). **Pharm:** Cytotoxic (HSC-2 cells, LD₅₀ = 13 μ g/mL; HGF, LD₅₀ = 58 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0070%fw). **Ref:** 3023.



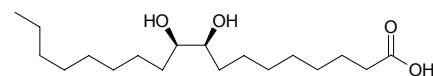
6131 1 β ,2 α -Dihydroxy-5 α -spirost-25(27)-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside

C₃₉H₆₂O₁₄ (754.92). Amorphous solid, $[\alpha]_D^{25} = -54.2^\circ$ ($c = 0.43$, MeOH). **Source:** *Cestrum sendtnerianum* (leaf). **Ref:** 5105.



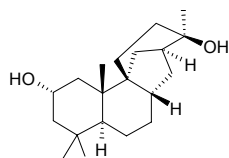
6132 9,10-Dihydroxystearic acid

C₁₈H₃₆O₄ (316.49). **Source:** BI MA ZI *Ricinus communis*. **Ref:** 658.



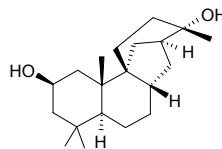
6133 2 α ,13(R)-Dihydroxystemodane

C₂₀H₃₄O₂ (306.49). Plates, mp 235~237°C, $[\alpha]_D^{27} = +16.5^\circ$ ($c = 0.38$, MeOH). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



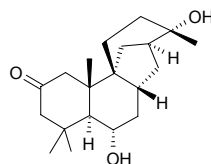
6134 2 β ,13(S)-Dihydroxystemodane

C₂₀H₃₄O₂ (306.49). Needles, mp 157~159°C, $[\alpha]_D^{27} = +11.9^\circ$ ($c = 0.78$, MeOH). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



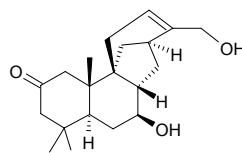
6135 6 α ,13(S)-Dihydroxystemodan-2-one

C₂₀H₃₂O₃ (320.48). Needles, mp 191~193°C, $[\alpha]_D^{27} = +55.6^\circ$ ($c = 4.5$, CHCl₃). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



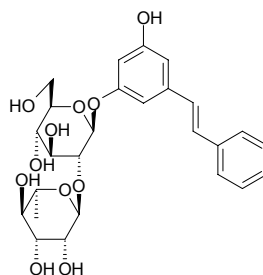
6136 7 β ,17-Dihydroxystemod-12-en-2-one

C₂₀H₃₀O₃ (318.46). Needles, mp 220~225°C, $[\alpha]_D^{27} = -10.9^\circ$ ($c = 2.8$, Me₂CO). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



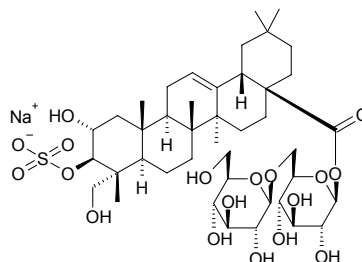
6137 3,5-Dihydroxy-stilbene-3-O-neohesperidoside

C₂₆H₃₂O₁₁ (520.54). White powder, mp 184~186°C, $[\alpha]_D^{20} = -100^\circ$ ($c = 0.045$, MeOH). **Source:** QIAN LIE LIN MAO JUE *Dryopteris sublaeta*. **Ref:** 4879.



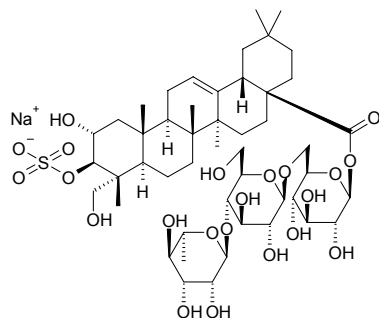
6138 2 α ,23-Dihydroxy-3 β -sulfoxylean-12-en-28-oic acid

O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester sodium salt
C₄₂H₆₇NaO₁₈S (915.05). Amorphous solid, $[\alpha]_D^{27} = +14.0^\circ$ ($c = 0.10$, MeOH). **Source:** SAN YE MU TONG *Akebia trifoliata* (stem). **Ref:** 4545.

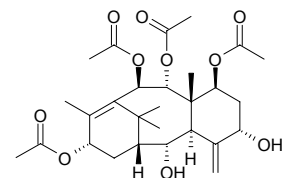


6139 2 α ,23-Dihydroxy-3 β -sulfoxyolean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester sodium salt

C₄₈H₇₇NaO₂₂S (1061.19). Amorphous solid, $[\alpha]_D^{27} = -8.0^\circ$ ($c = 0.10$, MeOH). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.

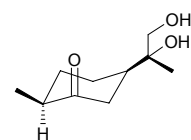


6140 2 α ,5 α -Dihydroxy-7 β ,9 α ,10 β ,13 α -tetraacetoxy-4(20),11-taxadiene
C₂₈H₄₀O₁₀ (536.63). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800]. Ref: 662, 4800.



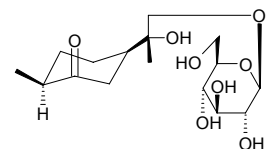
6141 (1S,4S,8S)-8,9-Dihydroxytetrahydrocarvone

C₁₀H₁₈O₃ (186.25). Amorphous powder, $[\alpha]_D^{21} = -23^\circ$ ($c = 0.5$, MeOH). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.



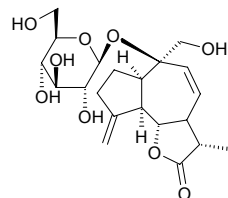
6142 (1S,4S,8S)-8,9-Dihydroxytetrahydrocarvone 9-*O*- β -D-glucopyranoside

C₁₆H₂₈O₈ (348.40). Amorphous powder, $[\alpha]_D^{25} = -28^\circ$ ($c = 3.5$, MeOH). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.



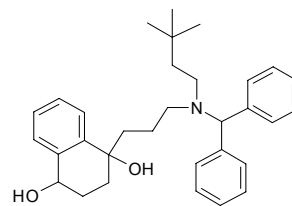
6143 10 β ,14-Dihydroxy-10(14),11 β (13)-tetrahydro-8,9-didehydro-3-deoxyzalanin C 10-*O*- β -D-glucopyranoside

C₂₁H₃₀O₉ (426.47). Solid, $[\alpha]_D^{25.8} = -41.8^\circ$ ($c = 0.63$, MeOH). Source: KAN CHA JIA MAO LIAN CAI *Picris kamschatca*. Ref: 1932.



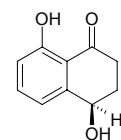
6144 *N*-(1',4'-Dihydroxy-1',2',3',4'-tetrahydronaphthyl)-propyl-*N*-diphenylmethyl-*N*-3,3-dimethylbutylamine

C₃₂H₄₁NO₂ (471.69). Colorless filamentary needles mp 148.5°C. Source: YI BEI MU *Fritillaria pallidiflora*. Ref: 2116.



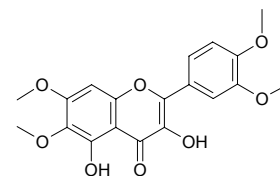
6145 (4*R*)-4,8-Dihydroxy- α -tetralone

C₁₀H₁₀O₃ (178.19). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). Ref: 4492.



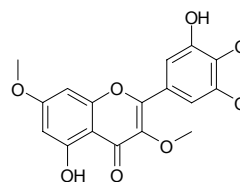
6146 3,5-Dihydroxy-6,7,3',4'-tetramethoxyflavone

Quercetagenin-6,7,3',4'-tetramethyl ether C₁₉H₁₈O₈ (374.35). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.



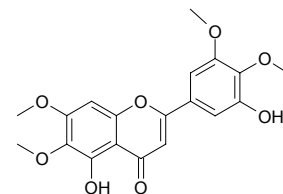
6147 5,3'-Dihydroxy-3,7,4',5'-tetramethoxyflavone

C₁₉H₁₈O₈ (374.35). Amorphous. Source: NIAN MAO LIAO *Polygonum viscosum* (whole herbs). Ref: 3955.



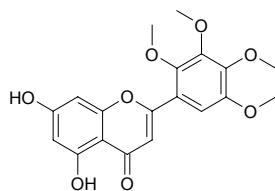
6148 5,3'-Dihydroxy-6,7,4',5'-tetramethoxyflavone

C₁₉H₁₈O₈ (374.35). Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 11.4%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%). Source: TIAN SHE CAO *Lippia dulcis* (aerial parts). Ref: 4508.

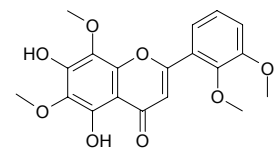


6149 5,7-Dihydroxy-2',3',4',5'-tetramethoxy-flavone

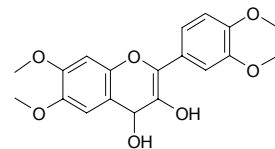
$C_{19}H_{18}O_8$ (374.35). Pharm: Anti-HIV-1 inactive. Source: TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). Ref: 4963.

**6150 5,7-Dihydroxy-6,8,2',3'-tetramethoxyflavone**

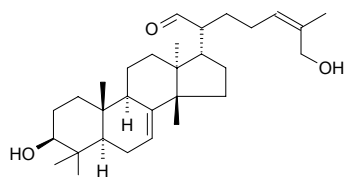
$C_{19}H_{18}O_8$ (374.35). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**6151 3,4-Dihydroxy-6,7,3',4'-tetramethoxyflavonol**

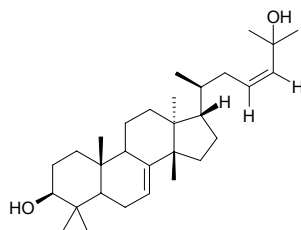
$C_{19}H_{20}O_7$ (360.37). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**6152 (24Z)-3β,27-Dihydroxy-7,24-tirucalladien-21-al**

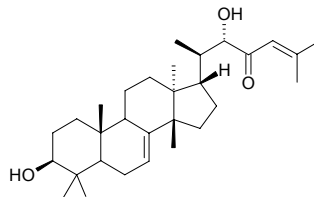
$C_{30}H_{48}O_3$ (456.72). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**6153 3β,25-Dihydroxy-tirucalla-7,23-diene**

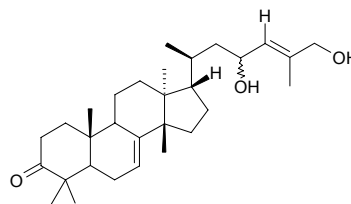
$C_{30}H_{50}O_2$ (442.73). Colorless needles (Me₂CO), mp 168~170°C, $[\alpha]_D^{27} = -31.0^\circ$ ($c = 0.45$, CHCl₃). Source: HAI NAN JIAN MU *Dysoxylum hainanense* (bark). Ref: 3987.

**6154 3β,22S-Dihydroxy-tirucalla-7,24-dien-23-one**

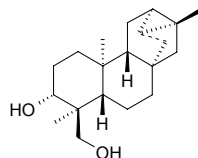
$C_{30}H_{48}O_3$ (456.72). White powder, mp 80~82°C, $[\alpha]_D^{26} = +33.3^\circ$ ($c = 0.45$, CH₃OH). Source: HAI NAN JIAN MU *Dysoxylum hainanense* (bark). Ref: 3987.

**6155 23,26-Dihydroxy-tirucalla-7,24-dien-3-one**

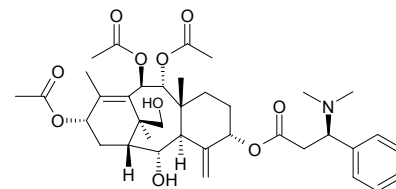
$C_{30}H_{48}O_3$ (456.72). Colorless needles (Me₂CO), mp 138~140°C, $[\alpha]_D^{19} = -72.5^\circ$ ($c = 0.29$, CH₃OH). Source: HAI NAN JIAN MU *Dysoxylum hainanense* (bark). Ref: 3987.

**6156 3α,19-Dihydroxy trachylobane**

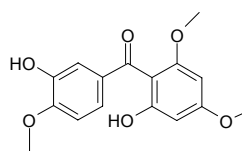
$C_{20}H_{32}O_2$ (304.48). mp 149~150°C, $[\alpha]_D^{18} = -35^\circ$ ($c = 4$, CHCl₃:MeOH = 1:1). Source: CHANG SUI BA DOU *Croton macrostachys*. Ref: 3983, 4552.

**6157 2α17-Dihydroxy-9α,10β,13α-triacetoxy-5α-(3'-N,N-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),11-diene**

$C_{37}H_{51}NO_{10}$ (669.82). Amorphous powder, $[\alpha]_D^{22} = +39^\circ$ ($c = 0.1$, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3886.

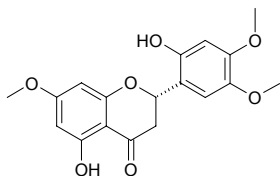
**6158 3',6-Dihydroxy-2,4,4'-trimethoxybenzophenone**

$C_{16}H_{16}O_6$ (304.30). Pale yellow solid, mp 161~162°C. Source: DAO NIAN ZI *Garcinia mangostana* (heartwood). Ref: 5311.

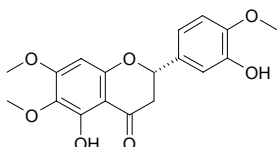


6159 (2S)-5,2'-Dihydroxy-7,4',5'-trimethoxyflavanone

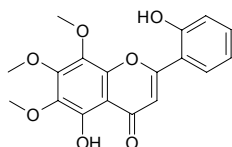
$C_{18}H_{18}O_7$ (346.34). Crystalline solid, mp 192~193 °C, $[\alpha]_D^{25} = -8.5^\circ$ ($c = 0.11$, MeOH). **Pharm:** AChE inhibitor (*in vitro*, $IC_{50} = (11.6 \pm 0.6) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (32.2 \pm 2.5) \mu\text{mol/L}$); BChE inhibitor (*in vitro*, $IC_{50} = (15.7 \pm 2.0) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (163.0 \pm 5.0) \mu\text{mol/L}$). **Source:** CU YING MAO DIAN ZI CAO *Onosma hispida* (whole herb). **Ref:** 4333.

**6160 5,3'-Dihydroxy-6,7,4'-trimethoxyflavanone**

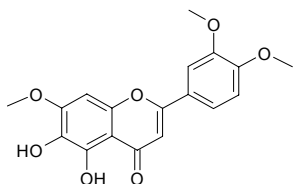
$C_{18}H_{18}O_7$ (346.34). **Pharm:** Cytotoxic (*in vitro*, PC12, $GI_{50} = 2.27 \mu\text{g/mL}$, control Cisplatin, $GI_{50} = 0.111 \mu\text{g/mL}$; HCT116, $GI_{50} = 2.87 \mu\text{g/mL}$, control Cisplatin, $GI_{50} = 0.794 \mu\text{g/mL}$). **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.0017%dw). **Ref:** 4623.

**6161 5,2'-Dihydroxy-6,7,8-trimethoxyflavone**

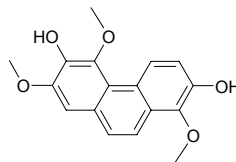
$C_{18}H_{16}O_7$ (344.32). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**6162 5,6-Dihydroxy-7,3',4'-trimethoxyflavone**

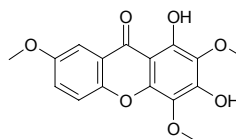
[25782-23-4] $C_{18}H_{16}O_7$ (344.32). Pale yellow powder, mp 244~247°C. **Pharm:** PFTase inhibitor (100 $\mu\text{g/mL}$, InRt = 62%, $IC_{50} = 25 \mu\text{g/mL}$)^[5378]; cytotoxic (inhibits growth of hmn cancer cells: SW620, $GI_{50} = (9.5 \pm 1.0) \mu\text{mol/L}$, control Adriamycin, $GI_{50} = 0.34 \mu\text{mol/L}$; A549, $GI_{50} = (19.3 \pm 2.0) \mu\text{mol/L}$, Adriamycin, $GI_{50} = 0.21 \mu\text{mol/L}$; PC3, $GI_{50} = (13.4 \pm 1.0) \mu\text{mol/L}$, Adriamycin, $GI_{50} = 0.39 \mu\text{mol/L}$; LOX-IMVI, $GI_{50} = (4.9 \pm 0.5) \mu\text{mol/L}$, Adriamycin, $GI_{50} = 0.12 \mu\text{mol/L}$; HCT15, $GI_{50} = (8.8 \pm 0.6) \mu\text{mol/L}$, Adriamycin, $GI_{50} = 0.84 \mu\text{mol/L}$)^[5378]; cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20 $\mu\text{g/mL}$)^[5378]; angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10 μg)^[5378]; antineoplastic (nude mouse, hmn tumor xenograft model, SW620 hmn colon cancer cell, 0.5% tween 80, ip 60mg/(kg·d), for 22 days, reduces tumor volume 44.6% at final day and no loss of body weight; good candidate as antitumor agents)^[5378]. **Source:** AI YE *Artemisia argyi*, *Thymus piperella*, *Thymbra* spp. **Ref:** 1521, 5378.

**6163 2,6-Dihydroxy-1,5,7-trimethoxyphenanthrene**

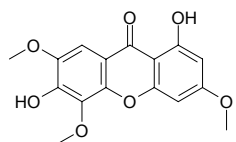
$C_{17}H_{16}O_5$ (300.31). **Source:** MI HUA SHI HU *Dendrobium densiflorum* (stem). **Ref:** 5171.

**6164 1,3-Dihydroxy-2,4,7-trimethoxyxanthone**

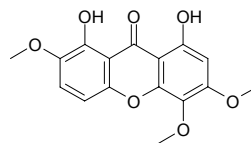
$C_{16}H_{14}O_7$ (318.29). Yellow solid. **Pharm:** Cytotoxic (*in vitro* antiproliferative activity, LoVo, $IC_{50} = (34.6 \pm 2.3) \mu\text{mol/L}$, control Doxorubicin, $IC_{50} = (0.04 \pm 0.005) \mu\text{mol/L}$; LoVo/Doxo, $IC_{50} = (39.5 \pm 1.8) \mu\text{mol/L}$, Doxorubicin, $IC_{50} = (10.2 \pm 0.1) \mu\text{mol/L}$). **Source:** PU TONG YUAN ZHI *Polygala vulgaris*. **Ref:** 4246.

**6165 1,6-Dihydroxy-3,5,7-trimethoxyxanthone**

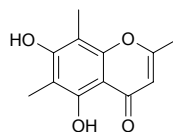
3,8-Dihydroxy-2,4,6-trimethoxyxanthone $C_{16}H_{14}O_7$ (318.29). **Pharm:** Cytotoxic (P_{388} $ED_{50} = 5.11 \mu\text{g/mL}$, control Mithramycin $ED_{50} = 0.06 \mu\text{g/mL}$, HT29 $ED_{50} = 6.25 \mu\text{g/mL}$, Mithramycin $ED_{50} = 0.08 \mu\text{g/mL}$)^[4094]. **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.000021%dw), TAI WAN LV DAO TENG HUANG *Garcinia linnii*, YUAN ZHI *Polygala tenuifolia*. **Ref:** 2, 4094, 4708.

**6166 1,8-Dihydroxy-3,4,7-trimethoxyxanthone**

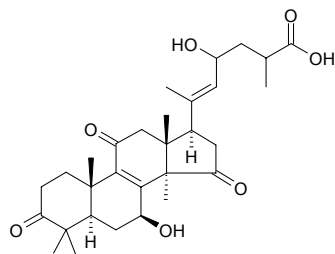
$C_{16}H_{14}O_7$ (318.29). Yellow needles (EtOH), mp 165~169°C **Source:** CHUAN DONG ZHANG YA CAI *Swertia davidii*. **Ref:** 2237.

**6167 5,7-Dihydroxy-2,6,8-trimethylchromone**

8-Methyleugenitol $C_{12}H_{12}O_4$ (220.23). **Source:** CUI YUN CAO *Selaginella uncinata* (whole herb). **Ref:** 4398.

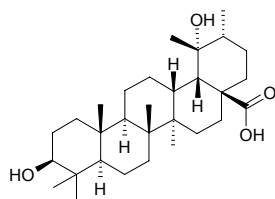


6168 *7β,23ξ-Dihydroxy-3,11,15-trioxolanosta-8,20E(22)-dien-26-oic acid*
 $C_{30}H_{42}O_7$ (514.67). Colorless amorphous solid, $[\alpha]_D^{27} = +95.4^\circ$ ($c = 0.2$, MeOH). Source: SHU SHE *Ganoderma applanatum* (sporocarp: yield = 0.00057%). Ref: 4756.



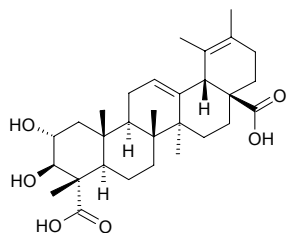
6169 *3β,19α-Dihydroxyursan-28-oic acid*

$C_{30}H_{50}O_4$ (474.73). Source: WU SE MEI *Lantana camara*. Ref: 744.



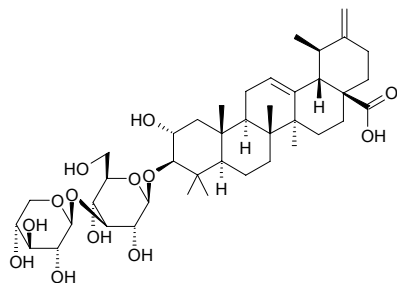
6170 *2α,3β-Dihydroxyurs-12,19-dien-23,28-oic acid*

$C_{30}H_{44}O_6$ (500.68). White powder, mp 320°C. Source: MAO E MEI *Rubus chroosepalus*. Ref: 866.

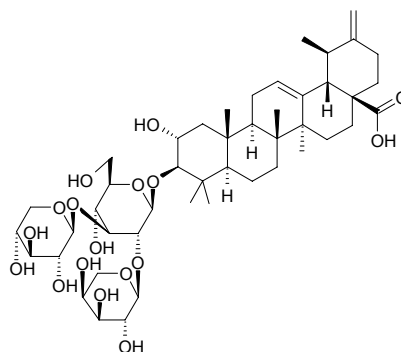


6171 *2α,3β-Dihydroxyurs-12,20(30)-dien-28-oic acid 3-O-β-D-xylopyranosyl-(1→3)-D-glucopyranoside*

$C_{41}H_{64}O_{13}$ (764.96). $[\alpha]_D^{25} = +32^\circ$ ($c = 1$, MeOH). Source: CI HUA LIAN ZI CAO *Alternanthera repens*. Ref: 2336.

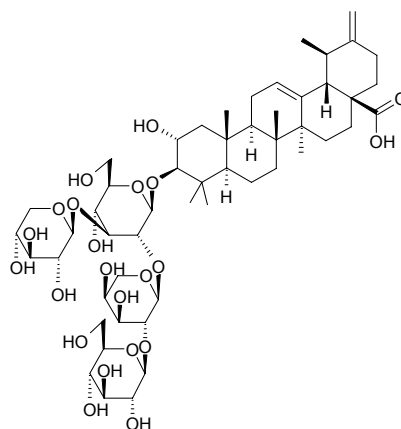


6172 *2α,3β-Dihydroxyurs-12,20(30)-dien-28-oic acid 3-O-{O-α-L-arabinopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)}β-D-glucopyranoside*
 $C_{46}H_{72}O_{17}$ (897.08). $[\alpha]_D^{25} = +28^\circ$ ($c = 1$, MeOH). Source: CI HUA LIAN ZI CAO *Alternanthera repens*. Ref: 2336.



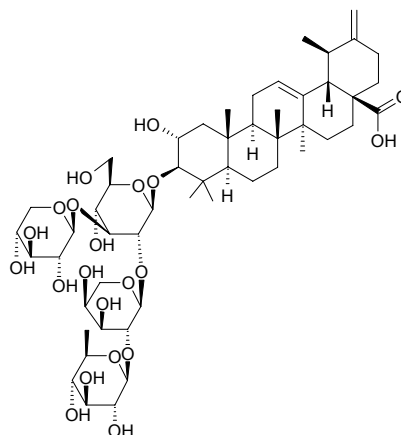
6173 *2α,3β-Dihydroxyurs-12,20(30)-dien-28-oic acid 3-O-β-D-glucopyranosyl-(1→2)-O-α-L-arabinopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)}β-D-glucopyranoside*

$C_{52}H_{82}O_{22}$ (1059.22). $[\alpha]_D^{25} = +19.0^\circ$ ($c = 1$, MeOH). Source: CI HUA LIAN ZI CAO *Alternanthera repens*. Ref: 2336.



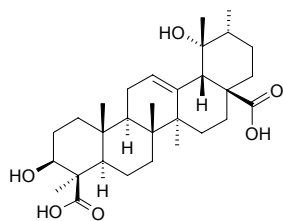
6174 *2α,3β-Dihydroxyurs-12,20(30)-dien-28-oic acid 3-O-β-D-quinopyranosyl-(1→2)-O-α-L-arabinopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)}β-D-glucopyranoside*

$C_{52}H_{82}O_{21}$ (1043.22). $[\alpha]_D^{25} = +16^\circ$ ($c = 1$, MeOH). Source: CI HUA LIAN ZI CAO *Alternanthera repens*. Ref: 2336.

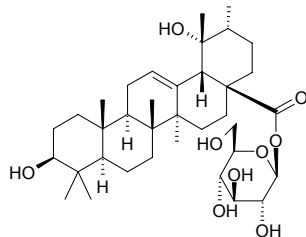


6175 3 β ,19 α -Dihydroxyurs-12-en-24,28-dioic acid

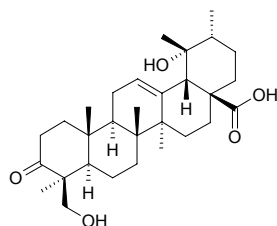
Ilexgenin A [108524-94-3] C₃₀H₄₆O₆ (502.70). Powder, mp > 300°C, [α]_D²⁰ = +30.8° (c = 0.97, pyridine). Source: MAO DONG QING *Ilex pubescens*. Ref: 1521.

**6176 3 β ,19 α -Dihydroxyurs-12-en-28-oic acid 28- β -D-glucopyranosyl ester**

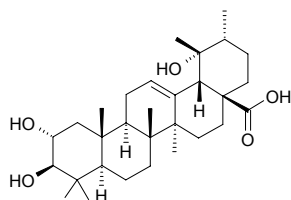
C₃₆H₅₈O₉ (634.86). Pharm: Cytotoxic (HSC-2, IC₅₀ = 50 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). Source: DI YU *Sanguisorba officinalis*. Ref: 5160.

**6177 19,24-Dihydroxyurs-12-en-3-one-28-oic acid**

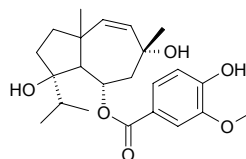
C₃₀H₄₆O₅ (486.70). Colorless prisms, mp 189.5~191.0°C, [α]_D^{17.6} = 27.4° (c = 1.55, acetone). Source: DU JUAN HUA YE *Rhododendron simsii*. Ref: 749.

**6178 2 α ,19 α -Dihydroxyursolic acid**

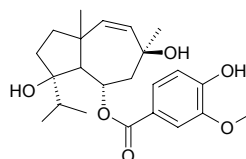
Tormentic acid [13850-16-3] C₃₀H₄₈O₅ (488.71). Yellowish crystalline powder, mp 265~269°C; 273°C; 288~289°C, [α]_D¹⁵ = -17.3° (c = 0.2, pyridine); colorless crystals powder, mp 260~262°C (methanol-water), 273°C, [α]_D = -20° (pyridine). Pharm: Antibacterial (*Streptococcus* var.); hypoglycemic (rat, orl, 10mg/kg)^[900]. Source: BAN BIAN SU *Elsholtzia ciliata*, CU YE XUAN GOU ZI *Rubus alceaefolius*, PI PA YE *Eriobotrya japonica*, QIANG WEI GEN *Rosa multiflora*, SHAN DI XIANG CHA CAI *Isodon oresbia*, SHUI YANG MEI *Geum japonicum*, TUN XING GUO *Pygeum topengii*, WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*, XIN ZANG JIA ZI CAO *Arnebia euchroma*, ZE LAN *Lycopus lucidus*. Ref: 6, 447, 592, 595, 606, 637, 900.

**6179 4 β ,8 α -Dihydroxy-6 α -vanilloyloxydauc-9-ene**

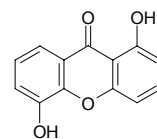
C₂₃H₃₂O₆ (404.51). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**6180 4 β ,8 β -Dihydroxy-6 α -vanilloyloxydauc-9-ene**

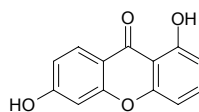
C₂₃H₃₂O₆ (404.51). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

**6181 1,5-Dihydroxyxanthone**

C₁₃H₈O₄ (228.21). Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 4.71 μ g/mL, control Mithramycin ED₅₀ = 0.06 μ g/mL, HT29 ED₅₀ = 5.01 μ g/mL, Mithramycin ED₅₀ = 0.08 μ g/mL)^[4094]; antifungal (*Aspergillus fumigatus* CBS113.26, MIC₈₀ = 16 μ g/mL, control Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus flavus* IHEM37.19, MIC₈₀ = 16 μ g/mL, Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus niger* IHEM2951, MIC₈₀ = 31 μ g/mL, Amphotericin B, MIC₈₀ = 16 μ g/mL; *Aspergillus terreus* 5029.2000, MIC₈₀ = 62 μ g/mL; Amphotericin B, MIC₈₀ = 16 μ g/mL; *Candida albicans* ATCC663.90, MIC₈₀ = 62 μ g/mL; Amphotericin B, MIC₈₀ = 1 μ g/mL)^[4995]. Source: FEI ZHOU HUANG GUO *Mammea Africana*, HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut), MEI ZHOU MAN MI PING GUO *Mammea americana*, SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex), TAI WAN LV DAO TENG HUANG *Garcinia linii*, TIE LI MU *Mesua ferrea*., *Mesua thwaitesii*, *Calophyllum* spp., *Garcinia* spp. Ref: 1521, 3866, 4094, 4995.

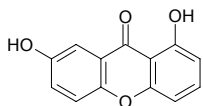
**6182 1,6-Dihydroxyxanthone**

C₁₃H₈O₄ (228.21). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

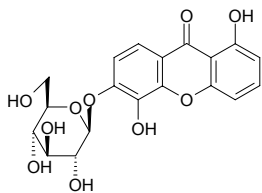


6183 1,7-Dihydroxyxanthone

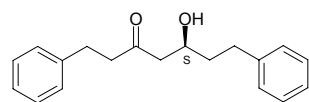
Euxanthone [529-61-3] $C_{13}H_8O_4$ (238.21). **Pharm:** Cytotoxic (P_{388} ED_{50} = 1.21 $\mu\text{g/mL}$, control Mithramycin ED_{50} = 0.06 $\mu\text{g/mL}$, HT29 ED_{50} = 3.94 $\mu\text{g/mL}$, Mithramycin ED_{50} = 0.08 $\mu\text{g/mL}$)^[4094]; cytotoxic inactive (hmn small cell lung cancer NCI-H187 cell line, control Ellipticine, IC_{50} = (0.35 \pm 0.15) $\mu\text{g/mL}$)^[5061]; anti-inflammatory. **Source:** CHAN YI TENG *Securidaca inappendiculata* (stem), DA HUA GE NA XIANG *Goniothalamus griffithii*, MEI ZHOU MAN MI PING GUO *Mammea Americana*, QIAO MU ZHUANG HUANG NIU MU *Cratogeomys arborescens* (stem cortex), TAI WAN LV DAO TENG HUANG *Garcinia linii*. **Ref:** 658, 4094, 5061, 5238, 5453.

**6184 1,5-Dihydroxyxanthone-6-O- β -D-glucoside**

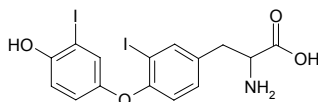
$C_{19}H_{18}O_{10}$ (406.35). Yellow amorphous powder, mp 265~266°C. **Source:** DI ER CAO *Hypericum japonicum*, HENG LI DI ER CAO *Hypericum henryi*. **Ref:** 775.

**6185 Dihydroyashabushiketol**

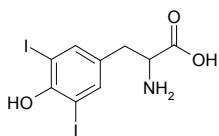
1,7-Diphenyl-5-hydroxy-3-heptanone $C_{19}H_{22}O_2$ (282.39). Yellow oil, $[\alpha]_D^{20}$ = -3° (c = 0.7, MeOH). **Pharm:** 5 α -Reductase inhibitor (rat prostate 5 α -Reductase, IC_{50} = (230 \pm 70) $\mu\text{mol/L}$, control Curcumin, IC_{50} > 1000 $\mu\text{mol/L}$, Finasteride, IC_{50} = 0.01 $\mu\text{mol/L}$). **Source:** GAO LIANG JIANG *Alpinia officinarum*. **Ref:** 5345.

**6186 3,3'-Diiodothyronine**

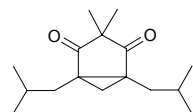
$C_{15}H_{13}I_2NO_4$ (525.08). **Source:** NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. **Ref:** 6.

**6187 Diiodotyrosine**

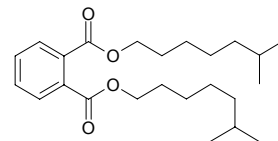
[66-02-4] $C_9H_9I_2NO_3$ (432.99). mp (+) 202°C (dec), (-) 213°C (dec), (\pm) 202°C (dec). **Source:** NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. **Ref:** 6.

**6188 1,5-Di-isobutyl-3,3-dimethyl[3,1,0]cyclohexadione**

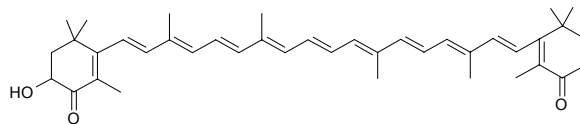
$C_{16}H_{26}O_2$ (250.38). **Source:** DANG SHEN *Codonopsis pilosula*. **Ref:** 2.

**6189 Diisocapryl phthalate**

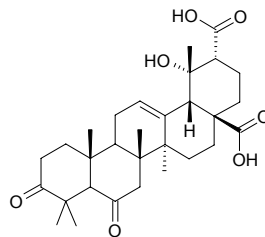
[27554-26-3] $C_{24}H_{38}O_4$ (390.57). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

**6190 4,4'-Diketo-3-hydroxy- β -carotene**

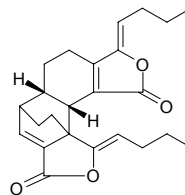
$C_{40}H_{52}O_3$ (580.86). **Source:** JIN YU *Carassius auratus*. **Ref:** 6.

**6191 Diketouncaric acid**

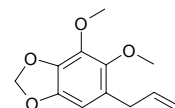
$C_{30}H_{42}O_7$ (514.67). **Source:** CHANG HUA GOU TENG *Uncaria longiflora*, TUO YUAN GOU TENG *Uncaria elliptica*, *Uncaria thwaitesii*. **Ref:** 5341.

**6192 (Z,Z')-Diligustilide**

$C_{24}H_{28}O_4$ (380.49). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

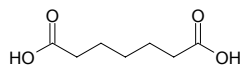
**6193 Dillapiol**

Dillapiole [484-31-1] $C_{12}H_{14}O_4$ (222.24). Oil, mp 29.5°C, bp 285°C, bp 162°C/11mmHg, bp 100°C/0.8mmHg. **Pharm:** Antihepatotoxin; inhibits mutation (100 $\mu\text{mol/L}$, Ames InRt = 43.4%); molluscicide (10mg/L); synergist of pyrethrin; sedative; hypnotic (prolongs sleeping time induced by hexobarbital, ED_{50} = 1.57mg/kg). **Source:** DA YE XIANG RU *Mosla dianthera*, GOU ZHUANG HU JIAO *Piper aduncum*, HUI XIANG GEN *Foeniculum vulgare*, JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], SHI LUO ZI *Anethum graveolens*, SU GE LAN DANG GUI *Ligusticum scoticum*, TAI WAN JI NING *Orthodon formosanus*, XIN HE LAN HU JIAO *Piper nove-hollandae*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], *Erigeron* sp. **Ref:** 6, 658, 900.

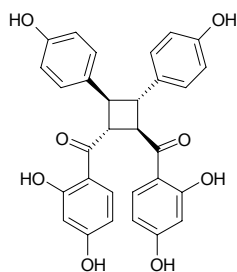


6194 Dimelic acid

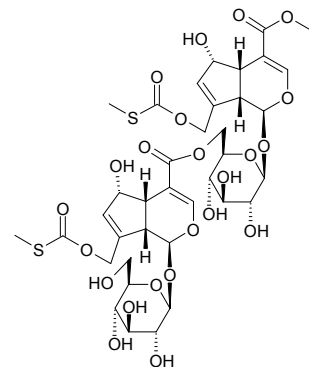
Heptanedioic acid [111-16-0] C₇H₁₂O₄ (160.17). Prisms (H₂O), mp 104~105°C, bp 212°C/10mmHg, pK_{a1} = 4.46, pK_{a2} = 5.58 (25°C). Source: BI MA ZI *Ricinus communis*, *Anthyllis sericea*. Ref: 658, 1521.

**6195 Dimeric 4,2',4'-trihydroxydihydrochalcone**

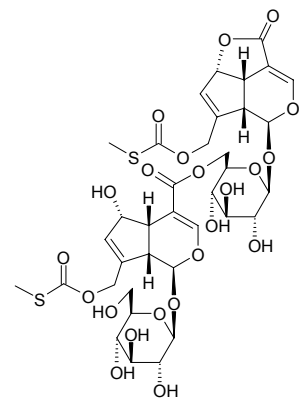
rel-(1 β ,2 α)-Di-(2,4-dihydroxybenzoyl)-*rel*-(3 β ,4 α)-di-(4-hydroxyphenyl)-cyclobutane C₃₀H₂₄O₈ (512.52). Yellow oil. Source: FEI ZHOU BAI ZI LIAN *Agapanthus africanus* (root). Ref: 5279.

**6196 Dimer iridoid glucoside 10**

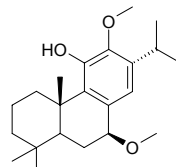
C₃₇H₄₈O₂₃S₂ (924.91). Yellow powder, [α]_D²⁰ = -5.7° (c = 1.00, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 1963.

**6197 Dimer iridoid glucoside 12**

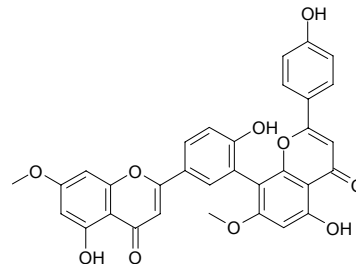
C₃₆H₄₄O₂₂S₂ (892.87). Yellow powder, [α]_D²⁰ = -108.9° (c = 0.54, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 1963.

**6198 7 β ,12-Dimethoxy-8,11,13-abietatrien-11-ol**

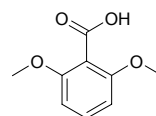
C₂₂H₃₄O₃ (346.51). Source: DU SONG SHI *Juniperus rigida*. Ref: 6.

**6199 7,7''-Dimethoxyamentoflavone**

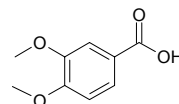
C₃₂H₂₂O₁₀ (566.53). Source: YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (leaf and twig: yield = 0.020%dw). Ref: 4707.

**6200 2,6-Dimethoxy benzoic acid**

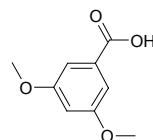
C₉H₁₀O₄ (182.18). Pharm: Antioxidant (hydroxyl radical scavenger, IC₅₀ = 1.51 μmol/L, control EGCG, IC₅₀ = 0.43 μmol/L, superoxide anion radical scavenger, IC₅₀ = 3.21 μmol/L, control EGCG, IC₅₀ = 0.53 μmol/L). Source: XIAN MAO *Curculigo orchioides* (rhizome). Ref: 4499.

**6201 3,4-Dimethoxybenzoic acid**

Veratric acid C₉H₁₀O₄ (182.18). Pharm: NO production inhibitor inactive (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 129 μg/mL, control L-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. Source: CHANG BAN JIN LIAN HUA *Trollius macropetalus*, CHOU LENG SHAN *Abies nephrolepis*, HE SE ZHONG HUA SHU *Tabebuia avellaneda* (inner bark), HONG CHE ZHOU CAO *Trifolium pratense*, JIN LIAN HUA *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], SANG HUANG *Phellinus igniarius*, TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00012%fw)^[4686]. Ref: 660, 4473, 4686.

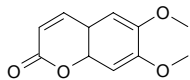
**6202 3,5-Dimethoxybenzoic acid**

C₉H₁₀O₄ (182.18). Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0017%dw). Ref: 4767.

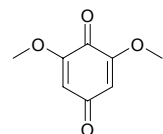


6203 6,7-Dimethoxy-2H-1-benzopyran-2-one

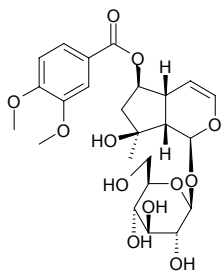
[120-08-1] C₁₁H₁₂O₄ (208.22). **Pharm:** α -Glucosidase inhibitor (type VI, IC₅₀ = 0.44mmol/L, control 1-Deoxynojirimycin, IC₅₀ = 0.3mmol/L); thrombin inhibitor inactive; β -glucuronidase inhibitor inactive^[4155]. **Source:** YUN NAN TU SI ZI *Cuscuta reflexa*. **Ref:** 4155.

**6204 2,6-Dimethoxybenzoquinone**

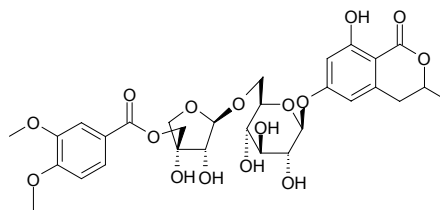
2,6-Dimethoxy-*p*-benzoquinone [530-55-2] C₈H₈O₄ (168.15). Yellow needles, mp 260°C, easy to sublimation when heated. **Pharm:** Cytotoxic (P₃₈₈ *in vitro*); Cytotoxic (K562 cells, IC₅₀ = 25.50 μ g/mL)^[4600]; cytotoxic (P₃₈₈, ED₅₀ = 0.12 μ g/mL, control Mithramycin, ED₅₀ = 0.08 μ g/mL; HT29, ED₅₀ = 3.97 μ g/mL, Mithramycin, ED₅₀ = 0.07 μ g/mL; A549, ED₅₀ = 10.57 μ g/mL, Mithramycin, ED₅₀ = 0.06 μ g/mL)^[4947]; platelet aggregation inhibitor (washed rabbit platelets, 50 μ g/mL, 100 μ mol/L AA-induced, AggRt = 100%, control 50 μ mol/L Aspirin, AggRt = 100%; 10 μ g/mL collagen-induced, AggRt = 100%, 100 μ mol/L Aspirin, AggRt = 4.9%; 0.1U/mL thrombin-induced, AggRt = 100%, 100 μ mol/L Aspirin, AggRt = 1.7%; 2ng/mL PAF-induced, AggRt = 100%, 100 μ mol/L Aspirin, AggRt = 2.1%)^[5427]. **Source:** CHUN FU SHOU CAO *Adonis vernalis*, CUI TU LUO FU MU *Rauvolfia vomitoria*, CHU BAI PI *Ailanthus altissima*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], JIAN YE CEN *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], MI MAI E ZHANG CHAI *Schefflera venulosa* (stem cortex), XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], PI ZHEN XING YAO HUA *Wikstroemia lanceolata* (stem and root), SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). **Ref:** 2, 6, 658, 660, 4600, 4947, 5427.

**6205 6-O-(3,4-Dimethoxybenzoyl)-ajugol**

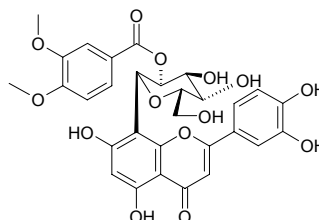
C₂₄H₃₂O₁₂ (512.52). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 15.1 μ g/mL, control *L*-NMMA, IC₅₀ = 27.4 μ g/mL)^[4473]. **Source:** HE SE ZHONG HUA SHU *Tabebuia avellaneda* (inner bark). **Ref:** 4473.

**6206 β -D-[5-O-(3,4-Dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl**

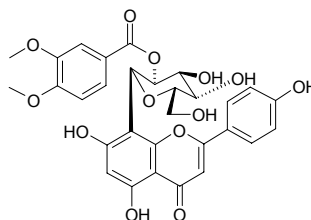
C₃₀H₃₆O₁₆ (652.61). Amorphous powder, $[\alpha]_D^{22} = -94.8^\circ$ ($c = 1.59$, MeOH). **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). **Ref:** 3817.

**6207 2''-O-(3''',4'''-Dimethoxybenzoyl)orientin**

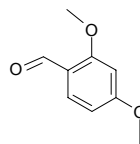
C₃₀H₂₈O₁₄ (612.55). Yellow powder, mp 202~204°C, $[\alpha]_D^{20} = -72.2^\circ$ ($c = 0.054$, CH₃OH). **Source:** DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00033%dw). **Ref:** 4743.

**6208 2''-O-(3''',4'''-Dimethoxybenzoyl)vitexin**

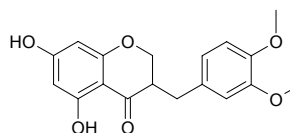
C₃₀H₂₈O₁₃ (596.55). Pale yellow powder, mp 277~279°C, $[\alpha]_D^{20} = -182.7^\circ$ ($c = 0.064$, CH₃OH). **Source:** DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00073%dw). **Ref:** 4743.

**6209 2,4-Dimethoxybenzaldehyde**

[613-45-6] C₉H₁₀O₃ (166.18). mp 71°C, bp 165°C/10mmHg. **Source:** XIANG GEN QIN *Osmorhiza aristata* var. *laxa*. **Ref:** 6.

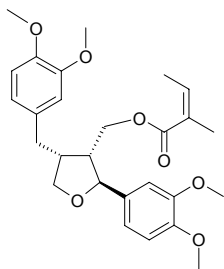
**6210 3-(3,4-Dimethoxybenzyl)-5,7-dihydroxychroman-4-one**

C₁₈H₁₈O₆ (330.34). White powder, mp 183~185°C, $[\alpha]_D^{25} = -74.7^\circ$ ($c = 0.39$, MeOH). **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.



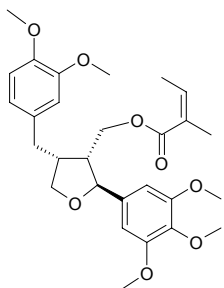
6211 [(2*S*,3*R*,4*R*)-4-(3,4-Dimethoxybenzyl)-2-(3,4-dimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate

$C_{27}H_{34}O_7$ (470.57). **Pharm:** Anti-Inflammatory (anti-oedema, control oedema = (7.8 ± 0.3) mg, $100 \mu\text{g}/\text{cm}^2$, oedema = (4.0 ± 0.6) mg, $p < 0.05$, reduction = 49%, Indomethacin oedema = (3.4 ± 0.3) mg, $p < 0.05$, reduction = 56%)^[4985]; leukotriene biosynthesis Inhibitor (*in vitro*, $IC_{50} = 10.7 \mu\text{mol}/\text{L}$, $p < 0.05$, control Zileuton, $IC_{50} = 10.4 \mu\text{mol}/\text{L}$, $p < 0.05$)^[5037]. **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 4985, 5037.



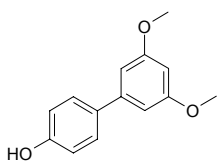
6212 [(2*S*,3*R*,4*R*)-4-(3,4-Dimethoxybenzyl)-2-(3,4,5-trimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate

$C_{28}H_{36}O_8$ (500.59). Colorless gum, $[\alpha]_D^{20} = +20.86^\circ$, ($c = 0.302$, MeOH). **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 5037.



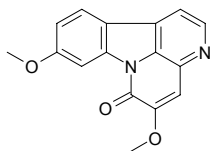
6213 3',5'-Dimethoxy-biphenyl-4-ol

$C_{14}H_{14}O_3$ (230.27). White powder. **Pharm:** Cytotoxic (*in vitro* antiproliferative activity, LoVo, $IC_{50} > 40 \mu\text{mol}/\text{L}$, control Doxorubicin, $IC_{50} = (0.04 \pm 0.005) \mu\text{mol}/\text{L}$). **Source:** PU TONG YUAN ZHI *Polygala vulgaris*. **Ref:** 4246.



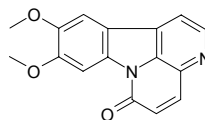
6214 5,9-Dimethoxycanthin-6-one

$C_{16}H_{12}N_2O_3$ (280.29). **Source:** *Eurycoma* sp. **Ref:** 4556.



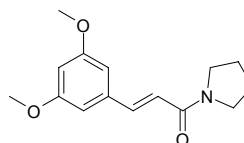
6215 9,10-Dimethoxycanthin-6-one

$C_{16}H_{12}N_2O_3$ (280.29). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000019%dw), *Eurycoma harmandiana* (root). **Ref:** 4728, 5137.



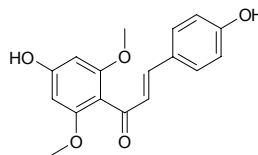
6216 3',5'-Dimethoxy-cinnamic acid pyrrolidine

$C_{15}H_{19}NO_3$ (261.32). **Pharm:** Platelet aggregation inhibitor (rbt platelets induced by thrombin, $100 \mu\text{g}/\text{mL}$, add thrombin $0.1 \text{u}/\text{mL}$, AggRt = $(92.6 \pm 0.4)\%$, control AggRt = $(92.6 \pm 0.4)\%$; add AA, $100 \mu\text{mol}/\text{L}$, $100 \mu\text{g}/\text{mL}$, AggRt = $(85.2 \pm 0.9)\%$, control AggRt = $(87.8 \pm 0.3)\%$, Aspirin $50 \mu\text{g}/\text{mL}$, AggRt = $(11.7 \pm 10.1)\%$; add collagen $10 \mu\text{g}/\text{mL}$, $100 \mu\text{g}/\text{mL}$, AggRt = $(86.9 \pm 1.2)\%$, control AggRt = $(89.3 \pm 0.5)\%$, Aspirin $100 \mu\text{g}/\text{mL}$, AggRt = $(81.3 \pm 0.5)\%$; add PAF $2 \text{ng}/\text{mL}$, $100 \mu\text{g}/\text{mL}$, AggRt = $(91.5 \pm 0.3)\%$, control AggRt = $(93.0 \pm 0.6)\%$). **Source:** TAI WAN HU JIAO *Piper taiwanense* (stem). **Ref:** 4938.



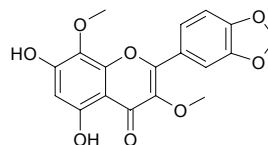
6217 2',6'-Dimethoxy-4,4'-dihydroxychalcone

$C_{17}H_{16}O_5$ (300.31). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 28.7 \mu\text{mol}/\text{L}$; HT1080, $ED_{50} = 50.5 \mu\text{mol}/\text{L}$)^[3042]. **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00018%–0.0129%). **Ref:** 3042, 3048.



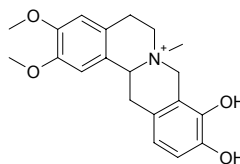
6218 3,8-Dimethoxy-5,7-dihydroxy-3',4'-methylenedioxyflavone

$C_{18}H_{14}O_8$ (358.31). Yellow crystals. **Source:** RU NI WENG DAO MI ZHU YU *Melicope coodeana*. **Ref:** 1975.



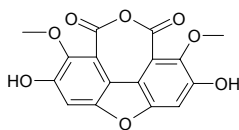
6219 2,3-Dimethoxy-9,10-dihydroxy-N-methyl-tetrahydroprotoberberine quaternary salt

Haitinosporine $C_{20}H_{24}NO_4^+$ (342.42). White crystals, mp $242\text{--}245^\circ\text{C}$. **Source:** HAI NAN QING NIU DAN *Tinospora hainanensis*. **Ref:** 408.

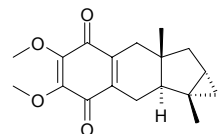


6220 2,2'-Dimethoxy-3,3'-dihydroxy-5,5'-oxygen-6,6'-biphenylformic anhydride

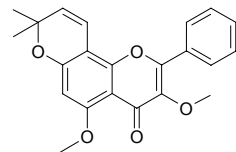
$C_{16}H_{10}O_8$ (330.25). White powder, mp 296.5~298.0°C. Source: DA JI⁽³⁾
Euphorbia pekinensis. Ref: 360.

**6221 (1aS*,1bS*,7aS*,8aS*)-4,5-Dimethoxy-1a,7a-dimethyl-1,1a,1b,2,7,7a,8,8a-octahydrocyclopropa[3,4]cyclopenta[1,2-b]naphthalene-3,6-dione**

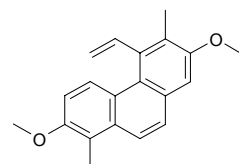
$C_{18}H_{22}O_4$ (302.37). Yellowish oil. Pharm: Cytotoxic (B-16 IC_{50} = 1.30 μ g/mL, control Doxorubicin IC_{50} = 0.03 μ g/mL; MCF7 IC_{50} = 5.04 μ g/mL, Doxorubicin IC_{50} = 0.20 μ g/mL; HCT8 IC_{50} = 2.49 μ g/mL, Doxorubicin IC_{50} = 0.04 μ g/mL; HL-60 IC_{50} = 1.56 μ g/mL, Doxorubicin IC_{50} = 0.02 μ g/mL; CEM IC_{50} = 1.24 μ g/mL, Doxorubicin IC_{50} = 0.02 μ g/mL). Source: QIU ZHUANG PO BU MU *Cordia globosa* (root). Ref: 5043.

**6222 3,5-Dimethoxy-2'',2''-dimethylpyrano-(5'',6'':8,7)-flavone**

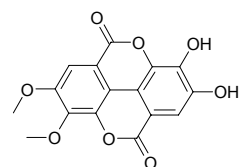
$C_{22}H_{20}O_5$ (364.40). Viscous yellowish oil. Source: *Lonchocarpus latifolius* (root). Ref: 5108.

**6223 2,7-Dimethoxy-1,6-dimethyl-5-vinylphenanthrene**

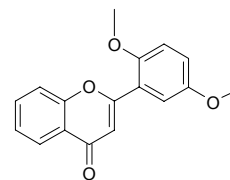
$C_{20}H_{20}O_2$ (292.38). Source: JIAN DENG XIN CAO *Juncus acutus*. Ref: 1965.

**6224 2,3-Dimethoxyellagic acid**

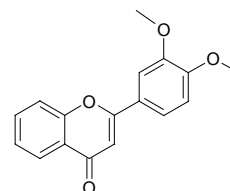
3,4-Di-*O*-methylsuccinic acid $C_{16}H_{10}O_8$ (330.25). mp > 300°C. Source: BA WANG BIAN *Euphorbia royleana*, WU JIU MU GEN PI *Sapium sebiferum*. Ref: 6.

**6225 2',5'-Dimethoxyflavone**

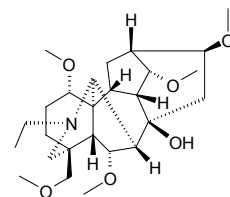
$C_{17}H_{14}O_4$ (282.30). Light yellow solid ($CHCl_3$). Source: HUANG HUA JIU LUN CAO *Primula veris* [Syn. *Primula officinalis*] (leaf). Ref: 5275.

**6226 3',4'-Dimethoxyflavone**

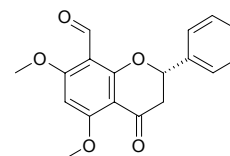
$C_{17}H_{14}O_4$ (282.30). White crystalline solid ($CHCl_3$). Source: HUANG HUA JIU LUN CAO *Primula veris* [Syn. *Primula officinalis*] (leaf). Ref: 5275.

**6227 6,14-Dimethoxyforesticine**

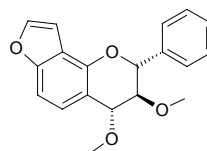
$C_{26}H_{43}NO_6$ (465.64). White powder, $[\alpha]_D^{18}$ = +27.2° (c = 0.31, EtOH). Source: BAI HOU WU TOU *Aconitum leucostomum*. Ref: 483.

**6228 (2S)-5,7-Dimethoxy-8-formylflavanone**

Anticancer Flavonoid PMV70P691-016 $C_{18}H_{16}O_5$ (312.33). Yellow oil, $[\alpha]_D$ = -28.0° (c = 0.10, MeOH). Pharm: Cytotoxic (*in vitro*, Hepa 1c1c7 mouse hepatoma cells, IC_{50} > 10 μ g/mL, CD = 2.6 μ g/mL, CI > 3.9; control Sulforaphane, IC_{50} = 2.1 μ g/mL, CD = 0.087 μ g/mL, CI = 24.1)^[4721]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0001%)^[4721]. Ref: 4721, 5038.

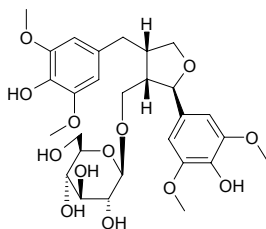
**6229 (2,3-trans-3,4-trans)-3,4-Dimethoxy-(2'',3'':7,8)-furanoflavon**

$C_{19}H_{18}O_4$ (310.35). Needles, $[\alpha]_D^{20}$ = +21° (c = 0.4, CH_2Cl_2). Source: *Lonchocarpus latifolius* (root). Ref: 5108.

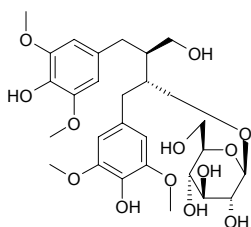


6230 (+)-5,5'-Dimethoxy-9-O- β -D-glucopyranosyl lariciresinol

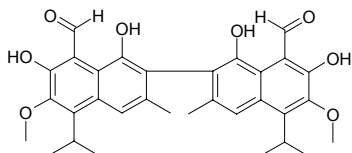
$C_{28}H_{38}O_{13}$ (582.61). **Pharm:** Anti-HSV-1 inactive ($EC_{50} > 172 \mu\text{mol/L}$). **Source:** MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*]. **Ref:** 2577.

**6231 (+)-5,5'-Dimethoxy-9-O- β -D-glucopyranosyl secoisolariciresinol**

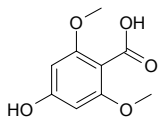
$C_{28}H_{40}O_{13}$ (584.62). **Source:** MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*]. **Ref:** 2577.

**6232 6,6'-Dimethoxygossypol**

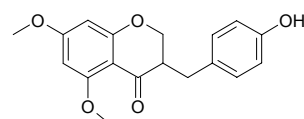
$C_{32}H_{34}O_8$ (546.62). mp 181~184°C. **Source:** MIAN HUA GEN *Gossypium herbaceum*. **Ref:** 6.

**6233 1,5-Dimethoxy-3-hydroxybenzoic acid**

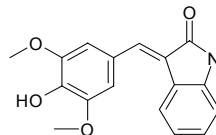
$C_9H_{10}O_5$ (198.18). **Source:** MAO GUO QI *Acer nikoense* (stem cortex). **Ref:** 4304.

**6234 5,7-Dimethoxy-3-(4-hydroxybenzyl)chroman-4-one**

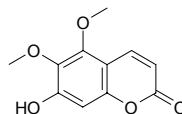
$C_{18}H_{18}O_5$ (314.34). Acetyl-: vitreous off-white solid. **Source:** *Scilla nervosa*. **Ref:** 2328.

**6235 (E)-3-(3',5'-Dimethoxy-4'-hydroxybenzylidene)-2-indolinone**

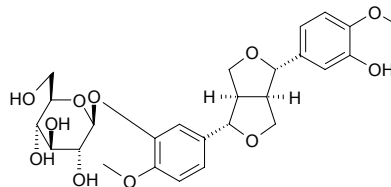
$C_{17}H_{15}NO_4$ (297.31). Yellow column crystals mp 204~206°C. **Source:** BAN LAN GEN *Isatis indigotica*. **Ref:** 2119.

**6236 5,6-Dimethoxy-7-hydroxycoumarin**

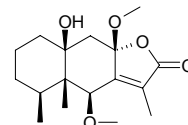
$C_{11}H_{10}O_5$ (222.20). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2.

**6237 4,4-Dimethoxy-3'-hydroxy-7,9':7',9-diepoxy lignan-3-O- β -D-glucopyranoside**

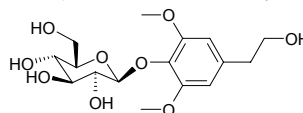
$C_{26}H_{32}O_{11}$ (520.54). White amorphous powder, $[\alpha]_D^{21} = -54.69^\circ$. **Source:** DA YE XIAN MAO *Curculigo capitulata* [Syn. *Leucojum capitulata*]. **Ref:** 2493.

**6238 6 β ,8 β -Dimethoxy-10 β -hydroxyeremophil-7(11)-en-12,8 α -olide**

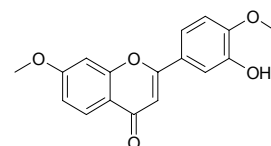
$C_{17}H_{26}O_5$ (310.39). Colorless plates, mp 164~166°C (Me₂CO), $[\alpha]_D^{20} = +166.7^\circ$ ($c = 0.27$, Me₂CO). **Pharm:** Antibacterial (*Staphylococcus aureus*, antibacterial circle = 13~16mm; *Bacillus subtilis*, antibacterial circle = 13~16mm; *Escherichia coli*, antibacterial circle < 12mm). **Source:** JIAN YE TOU WU GEN *Ligularia sagitta*. **Ref:** 5382.

**6239 2,6-Dimethoxy-4-(2-hydroxyethyl)phenol 1-O- β -D-glucopyranoside**

$C_{16}H_{24}O_9$ (360.36). Off-white amorphous powder, $[\alpha]_D^{20} = +19.3^\circ$ ($c = 0.7$, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (root). **Ref:** 3065.

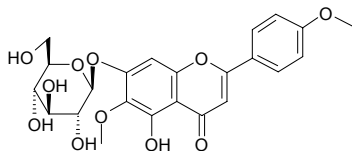
**6240 7,4'-Dimethoxy-3'-hydroxyflavone**

$C_{17}H_{14}O_5$ (298.30). Yellow amorphous powder, mp 128~130°C (MeOH); colorless needles (MeOH), mp 190~192°C. **Source:** WU CI ZHU YING HUA *Calliandra inermis*, XIANG HE HUAN *Albizia odoratissima* (root cortex). **Ref:** 2588, 4229.

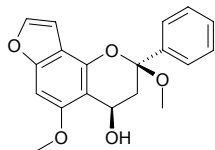


6241 6,4'-dimethoxy-5-hydroxyflavone 7-glucoside

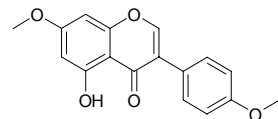
C₂₃H₂₄O₁₁ (476.44). Yellow amorphous powder. Source: AI JI ZHONG ZHI YUAN WEI *Iris cartholiniae*. Ref: 1880.

**6242 2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan**

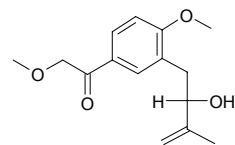
C₁₉H₁₈O₅ (326.35). Colorless crystals, mp 135~136°, [α]_D²⁸ = +42.1° (*c* = 0.3, MeOH). Source: HONG E JI XUE TENG *Millettia erythrocalyx*. Ref: 1937.

**6243 7,4'-Dimethoxy-5-hydroxyisoflavone**

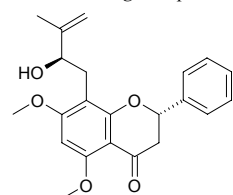
C₁₇H₁₄O₅ (298.30). Pale yellow crystals (CHCl₃: petrol = 1:2, v/v), mp 145~146°C. Source: MENG MAI ROU DOU KOU *Myristica malabarica* (heartwood). Ref: 3906.

**6244 2,4'-Dimethoxy-3'-(2-hydroxy-3-methyl-3-butenyl)acetophenone**

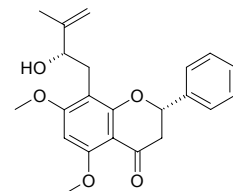
C₁₅H₂₀O₄ (264.32). Yellow oil, [α]_D²⁵ = -25.0° (*c* = 0.04, MeOH). Pharm: Prolyl endopeptidase inhibitor (flavobacterium origin, IC₅₀ = (845±0.005)μmol/L, control Z-pro-prolinal, IC₅₀ = (0.884±0.025)μmol/L); thrombin inhibitor inactive (bovine source, control Leupeptin, IC₅₀ = (45.4±0.03)μmol/L). Source: JIA LIAN QIAO *Duranta repens* (whole herb). Ref: 4179.

**6245 (2S)-5,7-Dimethoxy-8-(2R-hydroxy-3-methyl-3-butenyl)-flavanone**

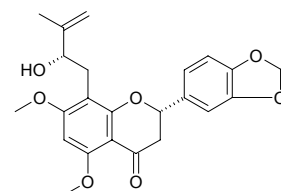
C₂₂H₂₄O₅ (368.43). Yellow oil, [α]_D = -33.0° (*c* = 0.1, MeOH). Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00062%). Ref: 4721.

**6246 (2S)-5,7-Dimethoxy-8-(2S-hydroxy-3-methyl-3-butenyl)-flavanone**

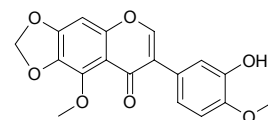
Anticancer Flavonoid PMV70P691-017 C₂₂H₂₄O₅ (368.43). Yellow oil, [α]_D = -22.0° (*c* = 0.1, MeOH). Pharm: Cytotoxic (*in vitro*, Hepa 1c1c7 mouse hepatoma cells, IC₅₀ = 19.3μg/mL, CD = 4.4μg/mL, CI = 4.4; control Sulforaphane, IC₅₀ = 2.1μg/mL, CD = 0.087μg/mL, CI = 24.1)^[4721]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00036%). Ref: 4721, 5038.

**6247 (2S)-5,7-Dimethoxy-8-(2S-hydroxy-3-methyl-3-butenyl)-3',4'-methylenedioxyflavanone**

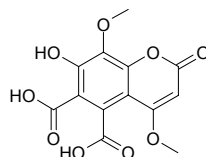
C₂₃H₂₄O₇ (412.44). Yellow oil, [α]_D = -36.0° (*c* = 0.1, MeOH). Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00018%). Ref: 4721.

**6248 4',5-Dimethoxy-3-hydroxy-6,7-methylenedioxyisoflavone**

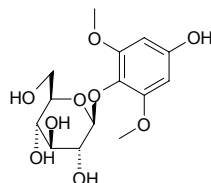
C₁₈H₁₄O₇ (342.31). Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 4235.

**6249 4,8-Dimethoxy-7-hydroxy-2-oxo-2H-1-benzopyran-5,6-dicarboxylic acid**

C₁₃H₁₀O₉ (310.22). Source: XIAO DI YU *Sanguisorba minor*. Ref: 3385.

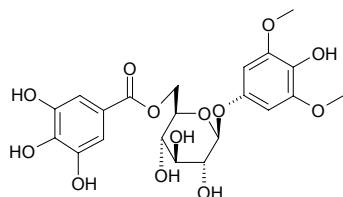
**6250 2,6-Dimethoxy-4-hydroxyphenol-1-O-β-D-glucopyranoside**

C₁₄H₂₀O₉ (332.31). White powder. Source: XIAO YE SHI NAN *Photinia parvifolia* (stem). Ref: 4553.



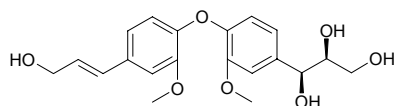
6251 3,5-Dimethoxy-4-hydroxyphenol 1-O-β-D-(6'-O-galloyl)glucopyranoside

C₂₁H₂₄O₁₃ (484.42). Source: YANG MEI SHU PI *Myrica rubra* (bark; yield = 0.012%). Ref: 4163.



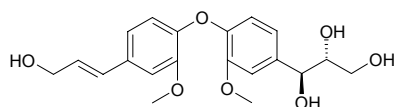
6252 *erythro*-2,2'-Dimethoxy-4-(3-hydroxy-1-propenyl)-4'-(1,2,3-trihydroxypropyl) diphenyl ether

C₂₀H₂₄O₇ (376.41). Source: *Eurycoma* sp. Ref: 4556.



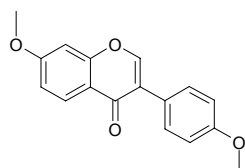
6253 *threo*-2,2'-Dimethoxy-4-(3-hydroxy-1-propenyl)-4'-(1,2,3-trihydroxypropyl) diphenyl ether

C₂₀H₂₄O₇ (376.41). Source: *Eurycoma* sp. Ref: 4556.



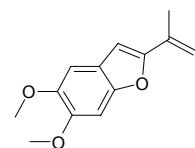
6254 7,4'-Dimethoxyisoflavone

Dimethoxydaidzein [1157-39-7] C₁₇H₁₄O₄ (282.30). Acicular crystals (ethanol), mp 154–156°C. Pharm: Cytotoxic (Raji cells); cAMP phosphodiesterase inhibitor (rat heart, IC₅₀ = 2.3 μmol/L). Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora*. Ref: 900.



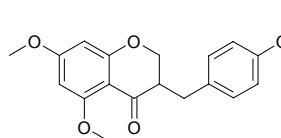
6255 5,6-Dimethoxy-2-isopropenylbenzofuran

C₁₃H₁₄O₃ (218.25). Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.



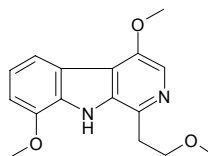
6256 5,7-Dimethoxy-3-(4-methoxybenzyl)chroman-4-one

3-(4-Methoxybenzyl)-5,7-dimethoxychroman-4-one C₁₉H₂₀O₅ (328.37). Colorless gum, [α]_D²⁵ = 70.6° (c = 0.38, MeOH); mp 115–117°C, [α]_D = –50° (c = 0.3 l, MeOH). Source: *Scilla nervosa* (bulb). Ref: 2328, 2381.



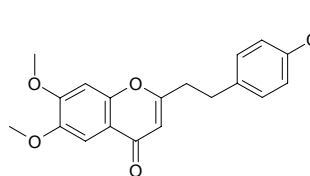
6257 4,8-Dimethoxy-1-(2-methoxyethyl)-β-carboline

C₁₆H₁₈N₂O₃ (286.33). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.



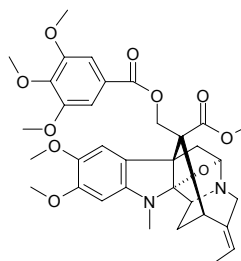
6258 6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone

C₂₀H₂₀O₅ (340.38). Colorless acicular crystals, mp 88–90°C. Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13, 660.



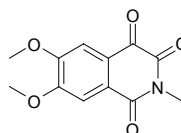
6259 10,11-Dimethoxy-1-methyldeacetylpicraline-3',4',5'-trimethoxybenzoate

C₃₄H₄₀N₂O₁₀ (636.71). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf; yield = 0.0017%). Ref: 3020.



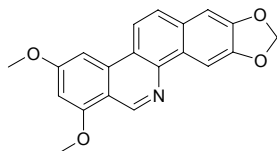
6260 6,7-Dimethoxy-N-methyl-3,4-dioxo-1(2H)-isoquinolinone

C₁₂H₁₁NO₅ (249.23). Yellow powder, mp 185–189°C. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3792.

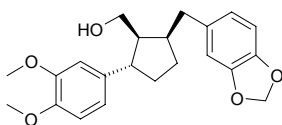


6261 7,9-Dimethoxy-2,3-methylenedioxybenzophenanthridine

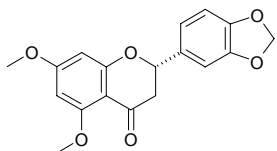
$C_{20}H_{15}NO_4$ (333.35). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**6262 3,4-Dimethoxy-3',4'-methylenedioxy-7,9'-epoxyignan-9-ol**

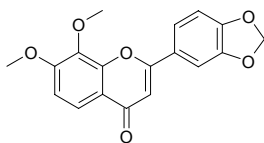
$C_{22}H_{26}O_5$ (370.45). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**6263 (2S)-5,7-Dimethoxy-3',4'-methylenedioxyflavanone**

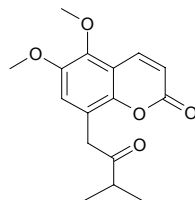
$C_{18}H_{16}O_6$ (328.32). Colorless needles ($CHCl_3$), mp 192~194°C, $[\alpha]_D^{25} = -18.5^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (gram-positive bacteria: *Staphylococcus aureus*, 30µg/mL DIZ = 7mm, *Bacillus subtilis*, 30µg/mL DIZ = 7mm, *Bacillus sphaericus*, 30µg/mL DIZ = 6mm, control Penicillin G, 30µg/mL DIZ = 12, 15, 14mm, respectively; gram-negative bacteria: *Pseudomonas aeruginosa*, 30µg/mL DIZ = 7mm, *Klebsiella aerogenes*, 30µg/mL DIZ = 7mm, *Chromobacterium violaceum*, 30µg/mL DIZ = 8mm, control Penicillin G, 30µg/mL DIZ = 24, 23, 24mm, respectively)^[3407]; antifungal (*Aspergillus niger*, 100µg/mL DIZ = 8mm, *Candida albicans*, 100µg/mL DIZ = 7mm, *Rhizopus oryzae*, 150µg/mL inactive, control Clotrimazole, 100µg/mL DIZ = 22, 25, 24mm, respectively)^[3407]. **Source:** CAI BAN YANG TI JIA *Bauhinia variegata* (root cortex), JI MEI YUN SHI *Caesalpinia pulcherrima*. **Ref:** 3407, 3468.

**6264 7,8-Dimethoxy-3',4'-methylenedioxyflavone**

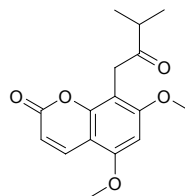
$C_{18}H_{14}O_6$ (326.31). Yellow amorphous powder, mp 252~254°C (MeOH). **Source:** XIANG HE HUAN *Albizia odoratissima* (root cortex). **Ref:** 4229.

**6265 5,6-Dimethoxy-8-(3'-methyl-2'-oxobutyl) coumarin**

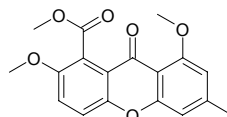
$C_{16}H_{18}O_5$ (290.32). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.

**6266 5,7-Dimethoxy-8-(3'-methyl-2'-oxobutyl)coumarin**

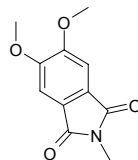
$C_{16}H_{18}O_5$ (290.32). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100µg/mL: thrombin = 0.1U/mL, AggRt = (77.7±1.1)%, control, AggRt = (80.0±1.1)%; AA = 100µmol/L, AggRt = (0±0)%, $p < 0.001$, control, AggRt = (77.0±1.5)%; collagen = 10µg/mL, AggRt = (0±0)%, $p < 0.001$, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (60.7±7.8)%, $p < 0.01$, control, AggRt = (82.5±1.5)%)^[5417]. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). **Ref:** 11, 5417.

**6267 2,8-Dimethoxy-6-methyl-9-oxo-9H-xanthene-1-carboxylic acid methyl ester**

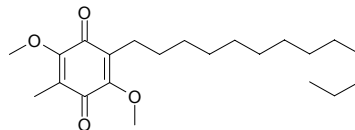
$C_{18}H_{16}O_6$ (328.32). Stable yellow needles ($CHCl_3$), mp 219~221°C. **Pharm:** Cytotoxic inactive (brine shrimp *Artemia salina* lethality assay, 20µg/mL or 200µg/mL). **Source:** *Xylaria* sp. **Ref:** 3845.

**6268 5,6-Dimethoxy-N-methylphthalimide**

$C_{11}H_{11}NO_4$ (221.21). **Source:** BIAN FU GE GEN *Menispermum dauricum*, SHUI LIAN YE TONG *Hernandia nymphaeifolia* (trunk bark). **Ref:** 1521, 3792.

**6269 2,5-Dimethoxy-6-methyl-3-tridecyl-1,4-benzoquinone**

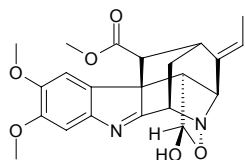
$C_{22}H_{36}O_4$ (364.53). Pale yellow solid, mp 54~55°C. **Source:** PI ZHEN DU JING SHAN *Maesa lanceolata*. **Ref:** 1860.



6270 10,11-Dimethoxynareline

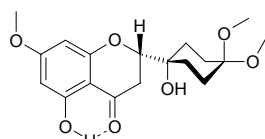
$C_{22}H_{24}N_2O_6$ (412.45). Light yellowish oil, $[\alpha]_D = -56^\circ$ ($c = 1.57$, $CHCl_3$).

Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0112%). **Ref:** 3020.

**6271 (2S)-4',4'-Dimethoxy-ongokein**

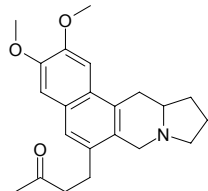
(2S)-5-Hydroxy-2-(1'-hydroxy-4',4'-dimethoxycyclohexyl)-7-methoxychroman-4-one $C_{18}H_{24}O_7$ (352.39). White amorphous powder, mp 52–55°C, $[\alpha]_D = +51^\circ$ ($c = 0.36$). **Source:** EN GE MU *Ongokea gore* (stem cortex and root).

Ref: 5308.

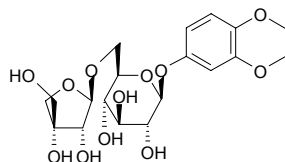
**6272 2,3-Dimethoxy-6-(3-oxo-butyl)-7,9,10,11,11a,12-hexahydrobenzo[f]pyrrolo[1,2-b]isoquinoline**

$C_{22}H_{27}NO_3$ (353.47). Colorless needles, mp 164–166°C, $[\alpha]_D^{25} = -71.0^\circ$ ($c = 0.0011$, $CHCl_3$). **Pharm:** Antiviral (tobacco mosaic virus (TMV), 500µg/mL, InRt = 15%). **Source:** NIU XIN PIAO ZI *Cynanchum komarovii* (aerial parts).

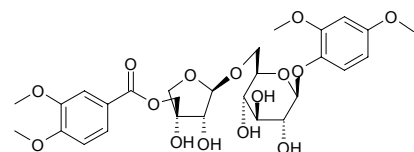
Ref: 5241.

**6273 3,4-Dimethoxyphenol β-D-apiofuranosyl(1→6)-β-D-glucopyranoside**

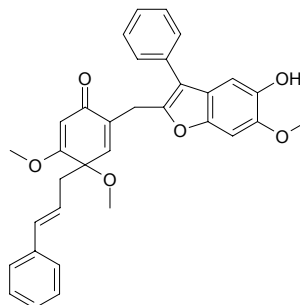
$C_{19}H_{28}O_{12}$ (448.43). White powder, $[\alpha]_D^{25} = -58.9^\circ$ ($c = 0.68$, MeOH). **Source:** SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535.

**6274 2,4-Dimethoxyphenol 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]apiofuranosyl(1→6)-β-D-glucopyranoside**

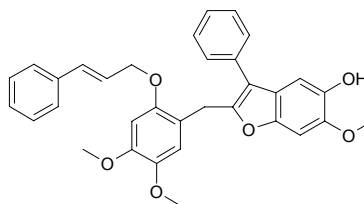
$C_{28}H_{36}O_{15}$ (612.59). Amorphous powder, $[\alpha]_D^{23} = -74^\circ$ ($c = 0.43$, MeOH). **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). **Ref:** 3817.

**6275 2-[4,5-Dimethoxy-5-(3-phenyl-trans-allyl)cyclohexa-3,6-dien-2-on-1-ylmethyl]-5-hydroxy-6-methoxy-3-phenylbenzofuran**

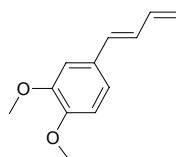
$C_{33}H_{30}O_6$ (522.6). Yellow amorphous solid, mp 78–83°C, $[\alpha]_D^{25} = +23.6^\circ$ ($c = 0.44$, $CHCl_3$). **Pharm:** Testosterone 5α-reductase inhibitor (25µg/mL, InRt = 0.6%, 50µg/mL, InRt = 3.8%, 100µg/mL, InRt = 17%; control Glycyrrhetic acid, 25µg/mL, InRt = 31.7%, 50µg/mL, InRt = 64.7%, 100µg/mL, InRt = 87.1%). **Source:** JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0017%dw). **Ref:** 4716.

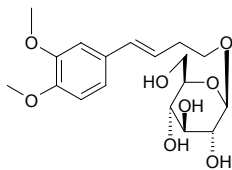
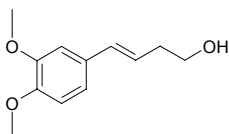
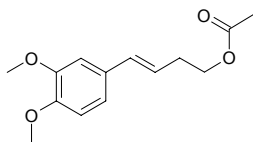
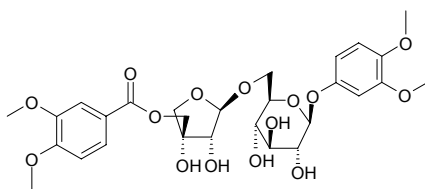
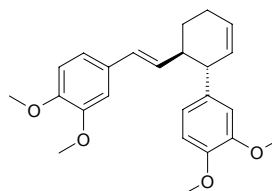
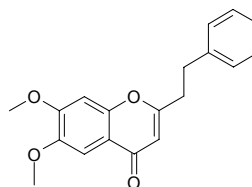
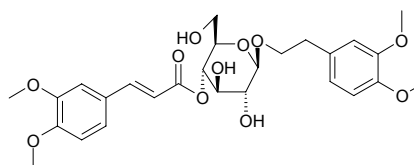
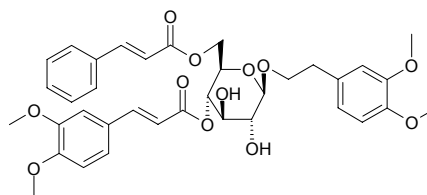
**6276 2-[4,5-Dimethoxy-2-(3-phenyl-trans-allyloxy)benzyl]-5-hydroxy-6-methoxy-3-phenylbenzofuran**

$C_{33}H_{30}O_6$ (522.6). Amorphous solid, mp 63–68°C. **Pharm:** Testosterone 5α-reductase inhibitor (25µg/mL, InRt = 11.5%, 50µg/mL, InRt = 15.9%, 100µg/mL, InRt = 18.1%; control Glycyrrhetic acid, 25µg/mL, InRt = 31.7%, 50µg/mL, InRt = 64.7%, 100µg/mL, InRt = 87.1%). **Source:** JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0012%dw). **Ref:** 4716.

**6277 4-(3,4-Dimethoxyphenyl)-but-1,3-diene**

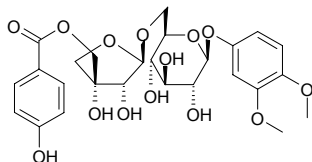
$C_{12}H_{14}O_2$ (190.24). **Pharm:** Cytotoxic (A549, $IC_{50} > 50\mu\text{mol/L}$, control Ellipticine, $IC_{50} = 0.8\mu\text{mol/L}$; Col2, $IC_{50} > 50\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.6\mu\text{mol/L}$; SNU638, $IC_{50} = 44.7\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.6\mu\text{mol/L}$; HT1080, $IC_{50} = 7.9\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.2\mu\text{mol/L}$)^[4081]; COX-2 inhibitor (RAW264.7 cells, LPS-induced PGE₂ production, $IC_{50} = 20.68\mu\text{mol/L}$, control Celecoxib, $IC_{50} = 0.52\text{nmol/L}$)^[4532]. **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4081, 4532.



6278 (E)-4-(3,4-Dimethoxyphenyl)but-3-en-1-O-β-D-glucopyranosideC₁₈H₂₆O₈ (370.40). Pale yellow gum, $[\alpha]_D^{25} = -21.4^\circ$ ($c = 0.23$, MeOH).**Pharm:** COX-2 inhibitor inactive (RAW264.7 cells, LPS-induced PGE₂ production, IC₅₀ > 50 μmol/L, control Celecoxib, IC₅₀ = 0.52 nmol/L). **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4532.**6279 (E)-4-(3,4-Dimethoxyphenyl)but-3-en-1-ol**C₁₂H₁₆O₃ (208.26). **Pharm:** COX-2 inhibitor inactive (RAW264.7 cells, LPS-induced PGE₂ production, IC₅₀ > 50 μmol/L, control Celecoxib, IC₅₀ = 0.52 nmol/L). **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4532.**6280 (E)-4-(3,4-Dimethoxyphenyl)but-3-en-1-ol acetate**C₁₄H₁₈O₄ (250.30). **Pharm:** COX-2 inhibitor inactive (RAW264.7 cells, LPS-induced PGE₂ production, IC₅₀ > 50 μmol/L, control Celecoxib, IC₅₀ = 0.52 nmol/L). **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4532.**6281 3,4-Dimethoxyphenyl 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**C₂₈H₃₆O₁₅ (612.59). Amorphous powder, $[\alpha]_D^{22} = -72.0^\circ$ ($c = 1.89$, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 75.9 μg/mL, control L-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). **Ref:** 3817, 4473.**6282 (±)-trans-3-(3,4-Dimethoxyphenyl)-4-[(E)-3,4-dimethoxystyryl]cyclohex-1-ene**C₂₄H₂₈O₄ (380.49). **Pharm:** Cytotoxic (A549, IC₅₀ = 12.6 μmol/L, control Ellipticine, IC₅₀ = 0.8 μmol/L; Col2, IC₅₀ = 15.5 μmol/L, Ellipticine, IC₅₀ = 1.6 μmol/L; SNU638, IC₅₀ = 8.7 μmol/L, Ellipticine, IC₅₀ = 1.6 μmol/L; HT1080, IC₅₀ = 16.1 μmol/L, Ellipticine, IC₅₀ = 1.2 μmol/L)^[4081]; COX-2 inhibitor (RAW264.7 cells, LPS-induced PGE₂ production, IC₅₀ = 2.71 μmol/L, control Celecoxib, IC₅₀ = 0.52 nmol/L)^[4532]. **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4081, 4532.**6283 6,7-Dimethoxy-2-(2-phenylethyl) chromone**C₁₉H₁₈O₄ (310.35). Colorless acicular crystals, mp 118–120°C. **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 660.**6284 3,4,1-O-3,4-Dimethoxy-phenylethyl-6-O-cinnamoyl-beta-D-glucopyranose**C₂₇H₃₄O₁₁ (534.57). **Pharm:** Cytotoxic (EAC, T/C = 240%; P₃₈₈, ED₅₀ = 16.1 μg/mL). **Source:** FAN SHI LIU ZI *Psidium guajava*. **Ref:** 3826.**6285 1-O-3,4-Dimethoxy-phenylethyl-4-O-3,4-dimethoxy cinnamoyl-6-O-cinnamoyl-beta-D-glucopyranose**C₃₆H₄₀O₁₂ (664.71). Amorphous off-white powder. **Pharm:** Cytotoxic (EAC, T/C = 220%; P₃₈₈, ED₅₀ = 17.3 μg/mL). **Source:** FAN SHI LIU ZI *Psidium guajava*. **Ref:** 3826.

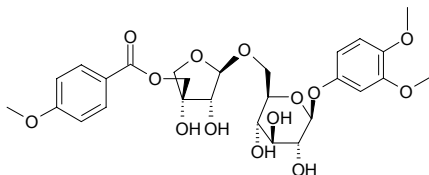
6286 3,4-Dimethoxyphenyl 1-O-β-D-[5-O-(4-hydroxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside

C₂₆H₃₂O₁₄ (568.54). Amorphous powder, [α]_D²² = -75° (c = 0.66, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 44.1 μg/mL, control L-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). **Ref:** 3817, 4473.



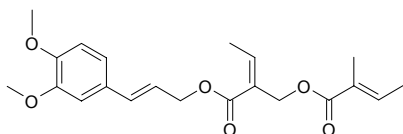
6287 3,4-Dimethoxyphenyl 1-O-β-D-[5-O-(4-methoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside

C₂₇H₃₄O₁₄ (582.56). Amorphous powder, [α]_D²² = -76.0° (c = 1.79, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 38.2 μg/mL, control L-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). **Ref:** 3817, 4473.



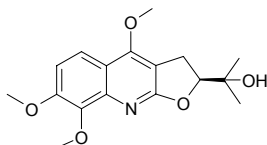
6288 (E)-3-(3,4-Dimethoxyphenyl)-2-propen-1-yl (Z)-2-[(Z)-2-methyl-2-butenoyloxymethyl] butanoate

C₂₁H₂₆O₆ (374.44). **Pharm:** Anti-inflammatory (NF-κB inhibitor, hmn monocytes, prevents LPS-induced cytokines (IL-1, IL-6, TNF, IL-8) release and PGE₂ synthesis: unstimulated control: PGE₂ = 0.54 pg/mL, IL-6 = 0.97 pg/mL, IL-1β = 0 pg/mL, TNF-α = 0.02 pg/mL, IL-8 = 3.45 pg/mL; LPS (10 ng/mL): PGE₂ = 19.24 pg/mL, IL-6 = 71.42 pg/mL, IL-1β = 3.61 pg/mL, TNF-α = 2.66 pg/mL, IL-8 = 235.18 pg/mL; LPS (10 ng/mL + compound 1 μg/mL): PGE₂ = 6.58 pg/mL, IL-6 = 52.23 pg/mL, IL-1β = 1.25 pg/mL, TNF-α = 1.18 pg/mL, IL-8 = 158.3 pg/mL). **Source:** GUAN MU CHAI HU *Bupleurum fruticosum* (aerial parts). **Ref:** 5033.



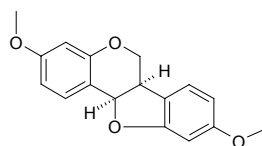
6289 (S)-(-)-7,8-Dimethoxyplatydesmine

C₁₇H₂₁NO₅ (319.36). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 7.5 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 28.3 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 1.9 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL). **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.



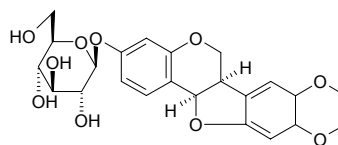
6290 3,9-Dimethoxypterocarpan

Homopterocarpin; Baphinitone [606-91-7] C₁₇H₁₆O₄ (284.31). Needles (petroleum ether or EtOH), mp 88–89°C, mp 83–85°C, [α]_D²² = -225° (CHCl₃). **Pharm:** Antineoplastic; antifungal; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by D-galactosamine (GalN), 100 μmol/L, InRt = (19.9 ± 2.0)%, weak, control Silybin, 100 μmol/L, InRt = (77.0 ± 5.5)%)^[4095]. **Source:** ZI TAN *Pterocarpus indicus*, CHAO XIAN HUAI *Maackia amurensis*, GUANG BU DING GONG TENG *Erycibe expansa*, MA DAO SI WO CI DOU *Swartzia madagascariensis*, ZA JIAO CHE ZHOU CAO *Trifolium hybridum*, *Pericopsis angolensis*. **Ref:** 5, 658, 1521, 4095



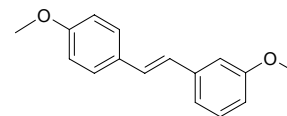
6291 9,10-Dimethoxy-pterocarpane-3-O-β-D-glucoside

C₂₃H₂₈O₁₀ (464.47). **Source:** HUANG QI *Astragalus membranaceus*, MENG GU HUANG QI *Astragalus mongholicus*. **Ref:** 2, 660.



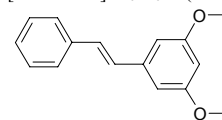
6292 (E)-3,4'-Dimethoxystilbene

C₁₆H₁₆O₂ (240.30). **Source:** GE ZHI HUA DI QIAN *Corsinia coriandrina*. **Ref:** 3888.



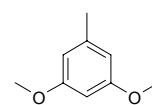
6293 3,5-Dimethoxystilbene

[78916-49-1] C₁₆H₁₆O₂ (240.30). **Source:** HAI SONG ZI *Pinus koraiensis*. **Ref:** 6.



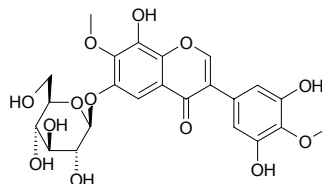
6294 3,5-Dimethoxytoluene

[4179-19-5] C₉H₁₂O₂ (152.19). **Source:** XI XIN *Asarum sieboldii*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*. **Ref:** 2, 660.



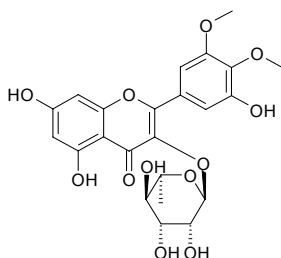
6295 7,4'-Dimethoxy-8,3',5'-trihydroxy-6-O-β-D-glucopyranosyliso-flavone

C₂₃H₂₄O₁₃ (508.44). Amorphous solid. **Source:** JUAN QIAO YUAN WEI *Iris potaninii* (underground part). **Ref:** 4235.

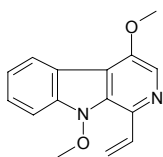


6296 3',4'-Dimethoxy-5,7,5'-trihydroxyl-flavone 3-O- α -L-rhamnopyranoside

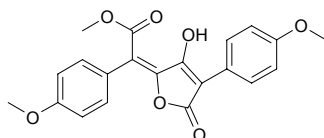
3',4'-Dimethoxy-5,7,5'-trihydroxyl-flavone 3-O- α -L-rhamnopyranoside
 $C_{23}H_{24}O_{12}$ (492.44). Source: SHAN HUANG PI *Clausena excavata*. Ref: 2135.

**6297 4,9-Dimethoxy-1-vinyl- β -carboline**

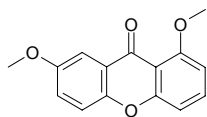
[88142-62-5] $C_{15}H_{14}N_2O_2$ (254.29). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**6298 4,4'-Dimethoxyvulpinic acid**

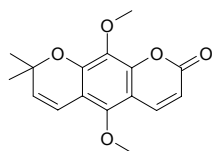
$C_{21}H_{18}O_7$ (382.37). Pharm: Antitubercular (*Mycobacterium tuberculosis* H37Ra, MIC = 25 μ g/mL); anti-HSV-1 inactive; cytotoxic inactive (hmn lung cancer cells NCI-H187). Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 5406.

**6299 1,7-Dimethoxyxanthone**

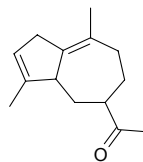
$C_{15}H_{12}O_4$ (256.26). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**6300 5,8-Dimethoxyxanthyletin**

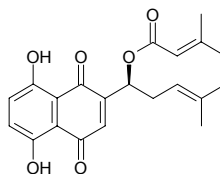
Racemosin [68421-13-6] $C_{16}H_{16}O_5$ (288.30). mp 179~180°C. Source: SHI JIAO CAO *Boenninghausenia sessilicarpa*, YAN JIAO CAO *Boenninghausenia albiflora* (root). Ref: 660, 1521, 2495.

**6301 2,8-Dimethyl-5-acetyl-bicyclo[5,3,0] decadiene-1,8**

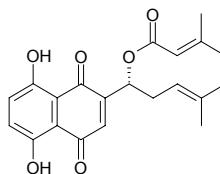
$C_{14}H_{20}O$ (204.31). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**6302 β,β -Dimethylacrylalkannin**

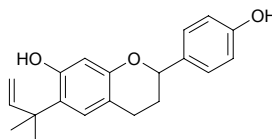
$C_{21}H_{22}O_6$ (370.41). mp 116~117°C. Pharm: Antibacterial (*Staphylococcus aureus*, *Staphylococcus epidermidis* and *Mycobacterium tuberculosis* H37Rv); inhibits ejection of sperm (male toad, caused by injecting chorionic gonadotrophin); used in treatment of allergic purpura. Source: DIAN ZI CAO *Onosma paniculatum*, OU ZI CAO *Alkanna tinctoria* (root: content scope = 0.46%~0.50%^[5501]), XIN ZANG JIA ZI CAO *Arnebia euchroma*, ZI CAO *Lithospermum erythrorhizon*. Ref: 2, 5, 658, 5501.

**6303 β,β -Dimethylacrylshikonin**

$C_{21}H_{22}O_6$ (370.41). Sorrel lamellar crystals, mp 116~117°C. Pharm: Antibacterial (*Staphylococcus aureus* 209P, *Staphylococcus aureus* TPR27, *S. epidermidis* TPR25, *Sarcina lutea* and *Bacillus subtilis*, MIC = 160 μ g/mL); antineoplastic (W_{256} , *in vitro* and *in vivo*); contracts blood vessels (inhibits ACh-induced relaxation on intact thoracic aorta, IC₅₀ = (1.461±0.052) μ mol/L, 1,4-Naphthoquinone IC₅₀ = (1.504±0.171) μ mol/L)^[4916]. Source: DIAN ZI CAO *Onosma paniculatum* (root: content = 0.095%)^[5508], JIA ZI CAO *Arnebia guttata* (root: content = 0.121%)^[5508], XIN ZANG JIA ZI CAO *Arnebia euchroma* (root: mean content of 3 origins = 0.879%)^[5508], ZI CAO *Lithospermum erythrorhizon* (root: content = 0.137%)^[5508]. Ref: 661, 4916, 5501, 5508.

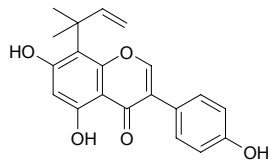
**6304 6(1,1-Dimethylallyl)-7,4'-dihydroxyflavan**

$C_{20}H_{22}O_3$ (310.40). Light yellow gum, $[\alpha]_D = +3.5^\circ$ ($c = 0.14$, MeOH). Source: TUO YUAN DUO TAN CAO *Dorstenia elliptica* (twig). Ref: 3754.

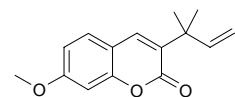


6305 8-(1,1-Dimethylallyl)genistein

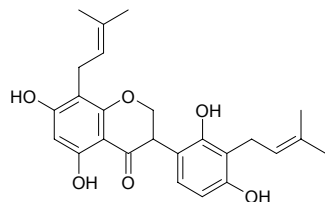
$C_{20}H_{18}O_5$ (338.36). Yellow prisms ($CHCl_3$), mp 94–96°C. Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.

**6306 3-(1,1-Dimethyl allyl) herniarin**

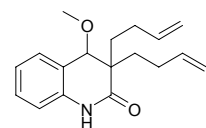
[20958-63-8] $C_{15}H_{16}O_3$ (244.29). mp 126–128°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**6307 3'-(γ,γ-Dimethylallyl)-kievitone**

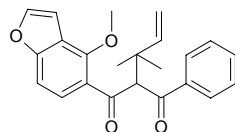
3'-(3,3-Dimethylallyl)-kievitone $C_{25}H_{28}O_6$ (424.50). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza Uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2431.

**6308 3,3-Dimethylallyl-4-methoxy-2-quinolone**

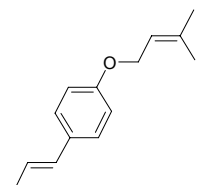
$C_{18}H_{23}NO_2$ (285.39). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 877.

**6309 8-(α,β-Dimethylallyl)-pongamol**

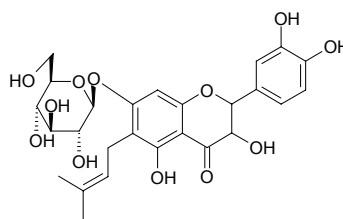
$C_{23}H_{22}O_4$ (362.43). Pharm: Cytotoxic (BST, $LC_{50} = 2.69\mu g/mL$). Source: *Lonchocarpus latifolius* (root). Ref: 5108.

**6310 3,3-Dimethyl allyl-p-propenyl phenyl ether**

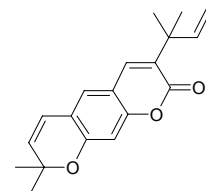
$C_{14}H_{18}O$ (202.30). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 6.

**6311 6-γ,γ-Dimethylallyltaxifolin 7-O-β-D-glucoside**

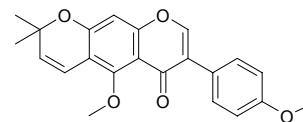
$C_{26}H_{30}O_{12}$ (534.52). mp 170–172°C, $[\alpha]_D^{20} = -6.6^\circ$ ($c = 0.5$, MeOH). Source: JIN LIAN MU *Ochna integerrima* (leaf). Ref: 5133.

**6312 3-(1,1-Dimethylallyl)-xanthyletin**

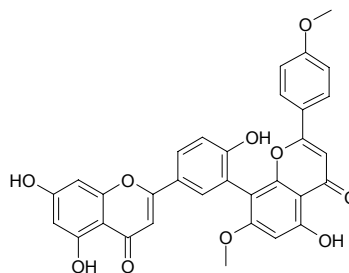
$C_{19}H_{20}O_3$ (296.37). mp 98–99°C. Pharm: Phytogrowth inhibitor (100 $\mu g/mL$, *Amaranthus hypochondriacus*, InRt = (74.9±1.5)%; *E. crusgalli*, InRt = (83.7±1.9)%^[5253]). Source: YAN JIAO CAO *Boenninghausenia albiflora*, *Stauranthus perforatus* (root). Ref: 2495, 5253.

**6313 Dimethylalpinumisoflavone**

$C_{22}H_{20}O_5$ (364.40). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex). Ref: 5220.

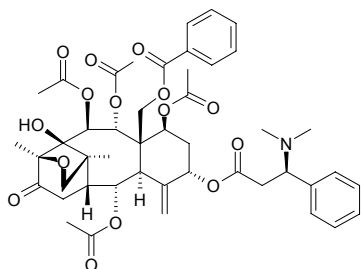
**6314 4',7-Dimethylamentoflavone**

$C_{32}H_{22}O_{10}$ (566.53). Yellowish amorphous powder (MeOH), mp 317–319°C, $[\alpha]_D^{17.6} = +15.92^\circ$ ($c = 0.26$, C_5H_5N). Pharm: Tissue proteinase B inhibitor ($IC_{50} = 0.55\mu mol/L$); cytotoxic (A549, $IC_{50} = 7.74\mu mol/L$, Bel7402, $IC_{50} = 17.16\mu mol/L$, DU145, $IC_{50} = 12.42\mu mol/L$, HT29, $IC_{50} = 14.54\mu mol/L$). Source: MO XI GE LUO YU SHAN *Taxodium mucronatum* (twig and leaf). Ref: 4571.

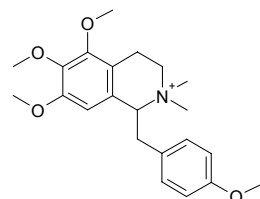


6315 5 α -O-(3'-Dimethylamino-3'-phenylpropionyl) taxinine M

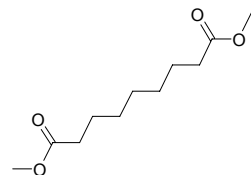
C₄₆H₅₅NO₁₅ (861.95). Colorless solid. **Pharm:** Cytotoxic (A549, ED₅₀ = (10.1 \pm 2.4) μ mol/L). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (needle leaf). **Ref:** 5225.

**6316 N,N-Dimethylanomurine**

Tetrahydrobenzylisoquinoline alkaloid C₂₂H₃₀NO₄⁺ (372.49). Colorless amorphous powder, [α]_D²² = -26.3° (c = 0.32, MeOH). **Source:** XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). **Ref:** 3794.

**6317 Dimethyl azelate**

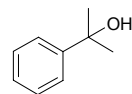
Methyl azelate [1732-10-1] C₁₁H₂₀O₄ (216.28). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

**6318 1,2-Dimethylbenzene**

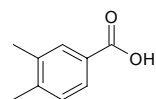
[95-47-6] C₈H₁₀ (106.17). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**6319 α,α-Dimethylbenzene methanol**

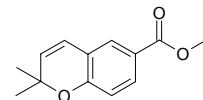
[617-94-7] C₉H₁₂O (136.20). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

**6320 3,4-Dimethylbenzoic acid**

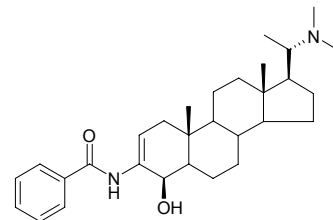
3,4-Xylylic acid [619-04-5] C₉H₁₀O₂ (150.18). mp 166°C. **Source:** MU TIAN LIAO *Actinidia polygama*. **Ref:** 6.

**6321 2,2-Dimethyl-2H-1-benzopyran-6-carboxylic acid methyl ester**

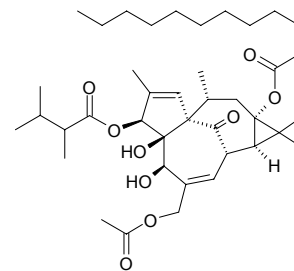
2,2-Dimethyl-6-methoxycarbonyl-2H-benzopyran [34818-57-0] C₁₃H₁₄O₃ (218.25). **Source:** BAI HUA LONG DAN *Gentiana algida*. **Ref:** 704.

**6322 N²⁰,N²⁰-Dimethyl-N³-benzoyl-3,20-diaminopregn-2-en-4-ol**

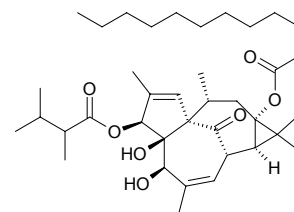
Anticancer Alkaloid PMV70P691-001 C₃₀H₄₄N₂O₂ (464.70). **Pharm:** Cytotoxic (estrone sulfatase assay). **Source:** YANG WO BAN DENG GUO *Pachysandra procumbens*. **Ref:** 5038.

**6323 3-O-(2,3-Dimethylbutanoyl)-13-O-dodecanoyl-20-acetylgingenol**

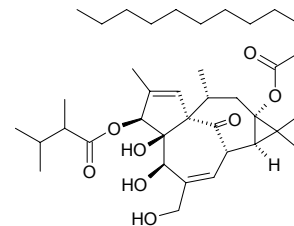
C₄₀H₆₂O₉ (686.93). Colorless gum, [α]_D²³ = 11.5° (c = 0.69, MeOH). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

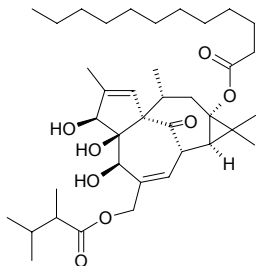
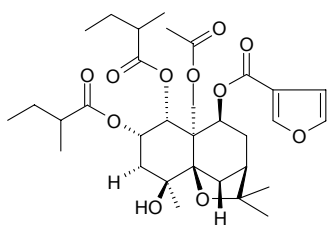
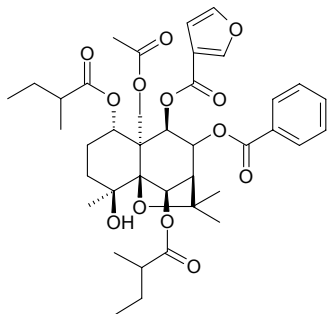
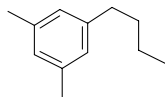
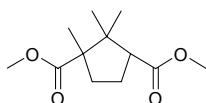
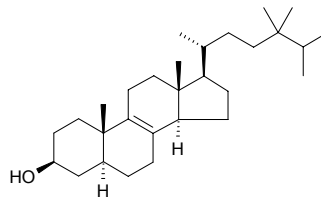
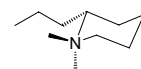
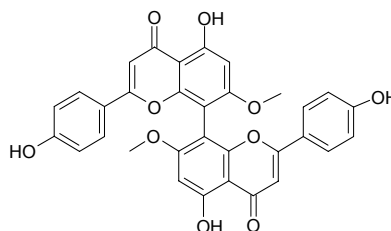
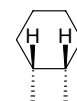
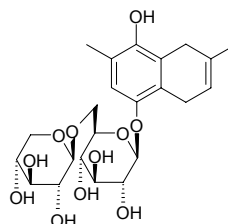
**6324 3-O-(2,3-Dimethylbutanoyl)-13-O-dodecanoyl-20-deoxyingenol**

C₃₈H₆₀O₇ (628.90). Colorless gum, [α]_D²³ = -4.4° (c = 0.73, MeOH). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

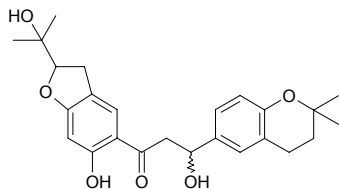
**6325 3-O-(2,3-Dimethylbutanoyl)-13-O-dodecanoylgingenol**

C₃₈H₆₀O₈ (644.90). **Pharm:** Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at 10 μ g/mL compound results in > 60% cell cleavage arrest). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

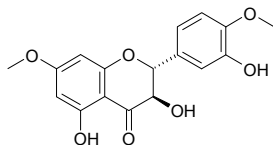


6326 20-O-(2,3-Dimethylbutanoyl)-13-O-dodecanoylingenolC₃₈H₆₀O₈ (644.90). Source: GAN SUI *Euphorbia kansui*. Ref: 4368.**6327 1 α ,2 α -Di-(*a*-methyl)-butanoyl-4 β -hydroxy-9 β -(β -)-furoyloxy-15-acetoxy- β -dihydroagarofuran**C₃₂H₄₆O₁₁ (606.72). Colorless gum, $[\alpha]_D^{20} = +42^\circ$ ($c = 1.00$, CHCl₃). Pharm: Cytotoxic (*in vitro*, Bel7402 liver carcinoma, IC₅₀ = 38.26 μ g/mL, control Etoposide, IC₅₀ = 7.00 μ g/mL). Source: *Euonymus nanoides* (seed). Ref: 4962.**6328 1S,6R-Di(2-methylbutanoyloxy-4S-hydroxy-8S-benzoyloxy-9R-(3)-furancarboxyloxy-13-acetyloxy- β -dihydroagarofuran**C₃₉H₅₀O₁₃ (726.83). Yellow oil, $[\alpha]_D = +39.4^\circ$ ($c = 6.3$, CHCl₃). Pharm: Cytotoxic (hmn Bel7402, IC₅₀ = 6.9 μ mol/L, hmn HL-60, IC₅₀ = 51.4 μ mol/L, hmn A549, IC₅₀ = 81.7 μ mol/L, mouse, P₃₈₈, IC₅₀ = 51.2 μ mol/L). Source: *Euonymus nanoides* (seed; yield = 0.0053%dw). Ref: 1129.**6329 3,5-Dimethylbutylbenzene**C₁₂H₁₈ (162.27). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.**6330 Dimethyl camphorite**C₁₂H₂₀O₄ (228.29). Source: DANG GUI *Angelica sinensis*. Ref: 2.**6331 24,24-Dimethyl-5 α -cholesta-8-en-3 β -ol**C₂₉H₅₀O (414.72). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.**6332 N,N-Dimethylconiine**C₁₀H₂₃N (157.30). Source: SA BA LU HUI *Aloe sabaea*. Ref: 728.**6333 7,7''-Di-O-methylcupressu-flavone**C₃₂H₂₂O₁₀ (566.53). mp > 300°C. Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.**6334 1,4-Dimethyl-*cis*-cyclohexane**[589-90-2] C₈H₁₆ (112.22). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.**6335 1,6-Dimethyl-*cis*-cyclohexane**[583-57-3] C₈H₁₆ (112.22). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.**6336 2,7-Dimethyl-1,4-dihydronaphthalene-5,8-diol 5-O- β -D-xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside**C₂₃H₃₂O₁₁ (484.50). mp 215~217°C, $[\alpha]_D^{26} = -33.9^\circ$ ($c = 0.13$, MeOH). Source: RI BEN LU TI CAO *Pyrola japonica* (whole herb). Ref: 4294.

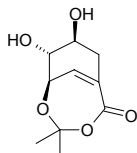
6337 (+)-3,4-(6'',6''-Dimethyldihydropyrano)-4',5'-[2''''-(1-hydroxy-1-methylethyl)-dihydrofuran]-2',3''''-dihydroxydihydrochalcone
 $C_{25}H_{30}O_6$ (426.51). Yellow powder, mp 114~116°C, $[\alpha]_D^{25} = +414^\circ$ ($c = 0.013$, MeOH). Source: *Dorstenia barteri* var. *subtriangularis* (twig). Ref: 3765.



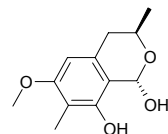
6338 4',7-Di-O-methyldihydroquercetin
 $C_{17}H_{16}O_7$ (332.31). Yellow amorphous powder. Pharm: Cytotoxic (HeLa, $IC_{50} = 22.4\mu\text{g/mL}$, control Mitomycin C, $IC_{50} = 1.7\mu\text{g/mL}$)^[4092]. Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part), TUAN JI AI NA XIANG *Blumea glomerata*. Ref: 4092, 4235.



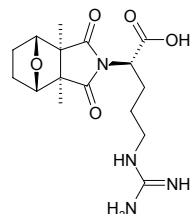
6339 4,4-Dimethyl-7 α ,8 β -dihydroxy-3,5-dioxobicyclo[4.3.1]dec-1(10)-en-2-one
 $C_{10}H_{14}O_5$ (214.22). Colorless squama crystals, mp 175~177°C. Source: MEI LI JIN SI TAO *Hypericum bellum*. Ref: 2492.



6340 3,7-Dimethyl-1,8-dihydroxy-6-methoxy-isochroman
 $C_{12}H_{16}O_4$ (224.26). $[\alpha]_D^{20} = -6.3^\circ$ ($c = 0.083$, MeOH). Source: *Penicillium steckii*. Ref: 3960.



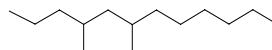
6341 (2S)-2-[(3aR*,4S*,7R*,7aS*)-3a,7a-Dimethyl-1,3-dioxo-4,7-epoxy-octahydroisoindol-2-yl]-5-guanidino pentanoic acid
 $C_{16}H_{24}N_4O_5$ (352.39). Powder, mp 195.0~197.0°C, $[\alpha]_D = -21.1^\circ$ ($c = 2.2$, MeOH:H₂O = 1:1). Source: BAN MAO *Mylabris phalerata*; *Mylabris cichorii*. Ref: 4052.



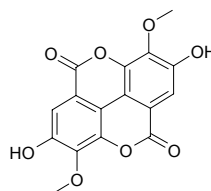
6342 Dimethyl disulfide
 $C_2H_6S_2$ (94.20). mp -98°C, bp 110°C; 116~118°C. Source: DA SUAN *Allium sativum*, JIU CAI *Allium tuberosum*, YANG CONG *Allium cepa*. Ref: 6.



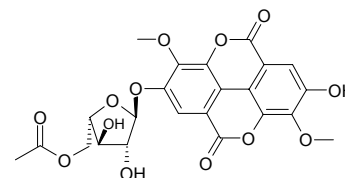
6343 4,6-Dimethyl dodecane
 $C_{14}H_{30}$ (198.40). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.



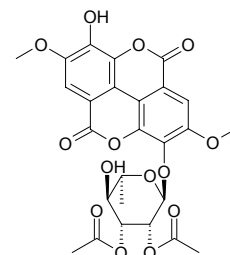
6344 3,3'-Di-O-methylelagic acid
 $C_{16}H_{10}O_8$ (330.25). Pharm: Antioxidant (*in vitro*, effect on conjugated diene formation of LDL or MDA level in rat brain). Source: SHI LIU ZHONG ZI *Punica granatum* (seed; yield = 0.00063%). Ref: 4792.



6345 3,3'-Di-O-methylelagic acid 4-(5''-acetyl)- α -L-arabinofuranoside
 $C_{23}H_{20}O_{13}$ (504.41). Off-white amorphous powder, $[\alpha]_D^{28} = -180.0^\circ$ ($c = 0.13$, M₂SO). Source: JI SU ZI *Cornus capitata* [Syn. *Dendrobenthamia capitata*] (root). Ref: 5177.

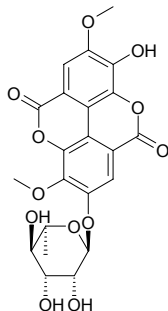


6346 4,4'-O-Dimethylelagic acid 3-(2'',3''-di-O-acetyl)- α -L-rhamnoside
 $C_{26}H_{24}O_{14}$ (560.47). Amorphous powder, $[\alpha]_D = -21.6^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (panel of hmn cancer cell lines, according to established protocols of Likitwitayawuid 1993 and Seo 2001, ED₅₀ values of > 5mg/mL are regarded as inactive). Source: MA SI TE SI DU YING *Elaeocarpus mastersii*. Ref: 2020.

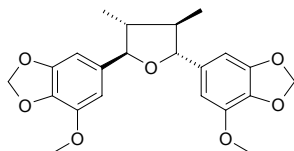


6347 3,4'-O-Dimethyllellagic acid 4-O- α -L-rhamnopyranoside

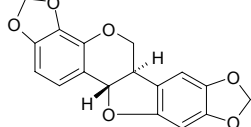
$C_{22}H_{20}O_{12}$ (476.40). $[\alpha]_D = -42.4^\circ$ ($c = 0.1$, MeOH). Source: SHI LIU XIN CAI *Punica granatum*. Ref: 5415.

**6348 *rel*-(7*R*,8*R*,7'*R*,8'*R*)-3,4,3',4'-Dimethylenedioxy-5,5'-dimethoxy-7,7'-epoxylignan**

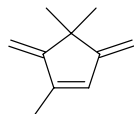
$C_{22}H_{24}O_7$ (400.43). Pale yellow oil, $[\alpha]_D^{21} = -10.1^\circ$ ($c = 0.01$, MeOH). Pharm: Antitrypanosomal (trypanomastigote form of *Trypanosoma cruzi* (Y strain), $IC_{50} = 3.47\mu\text{g/mL}$). Source: *Piper solmsianum*. Ref: 3450.

**6349 3,4-Dimethylenedioxypterocarpan**

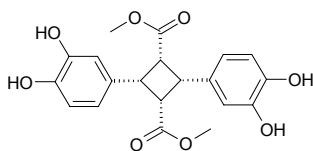
$C_{17}H_{12}O_6$ (312.28). White crystals, mp $154\text{--}156^\circ\text{C}$. Source: KEN NI YA HUI YE *Tephrosia aequilata*. Ref: 1957.

**6350 3,5-Dimethylene-1,4,4-trimethylcyclopentene**

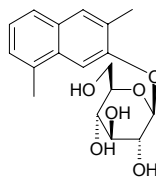
$C_{10}H_{14}$ (134.22). Colorless oil. Source: *Lavandula luisieri* (essential oil). Ref: 5301.

**6351 Dimethyl ester of (1 α ,2 α ,3 α ,4 α)-2,4-bis(3,4-dihydroxyphenyl)-1,3-cyclobutanedicarboxylic acid**

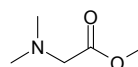
$C_{20}H_{20}O_8$ (388.38). Colorless needles, $[\alpha]_D = 0^\circ$ ($c = 0.47$, MeOH). Pharm: Antihistamine (inhibits histamine release, rat mast cell, induced by antigen-antibody reaction, $IC_{50} = 16.9\mu\text{g/mL}$, control Indomethacin, $IC_{50} = 89.5\mu\text{g/mL}$); PGE_2 production inhibitor ($30\mu\text{g/mL}$, $\text{InRt} = 76.5\%$). Source: XIAO HUA GUI ZHEN *Bidens parviflora* Ref: 3364.

**6352 2,5-Dimethyl-3-O- β -D-glucopyranosylnaphthol**

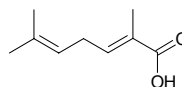
$C_{18}H_{22}O_6$ (334.37). Yellowish oil. Source: DA MA JIN *Hibiscus cannabinus* (bark). Ref: 5233.

**6353 *N,N*-Dimethyl glycine methyl ester**

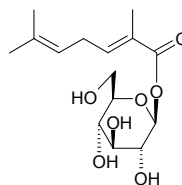
[7148-06-3] $C_5H_{11}NO_2$ (117.15). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.

**6354 (2*E*)-2,6-Dimethyl-2,5-heptadienoic acid**

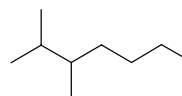
$C_9H_{14}O_2$ (154.21). Colorless oil. Source: DA GUO XI FAN LIAN *Passiflora quadrangularis* (fruit). Ref: 3900.

**6355 (2*E*)-2,6-Dimethyl-2,5-heptadienoic acid β -D-glucopyranosyl ester**

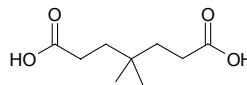
$C_{15}H_{24}O_7$ (316.35). Colorless oil, $[\alpha]_D^{25} = +12.6^\circ$ ($c = 0.78$, MeOH). Source: DA GUO XI FAN LIAN *Passiflora quadrangularis* (fruit). Ref: 3900.

**6356 2,3-Dimethylheptane**

[3074-71-3] C_9H_{20} (128.26). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

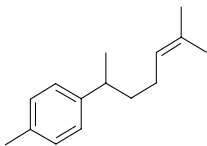
**6357 4,4-Dimethyl-1,7-heptanedioic acid**

$C_9H_{16}O_4$ (188.23). White powder, easy dissolve in methanol and acetone, mp $104\text{--}107^\circ\text{C}$. Source: CHAN YI TENG *Securidaca inappendiculata*. Ref: 2183.

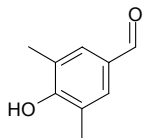


6358 1-(1,5-Dimethyl-4-hexenyl)-4-methyl benzene

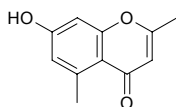
$C_{15}H_{22}$ (202.34). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**6359 3,5-Dimethyl-4-hydroxy-benzaldehyde**

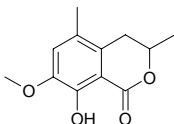
$C_9H_{10}O_2$ (150.18). Source: LIU CHUAN YU *Linaria vulgaris*. Ref: 4237.

**6360 2,5-Dimethyl-7-hydroxy chromone**

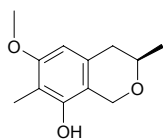
$C_{11}H_{10}O_3$ (190.20). mp 220~222°C. Source: HU ZHANG *Polygonum cuspidatum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], TIAN SHAN DA HUANG *Rheum wittrockii*. Ref: 2, 609.

**6361 3,5-Dimethyl-8-hydroxy-7-methoxy-3,4-dihydroisocoumarin**

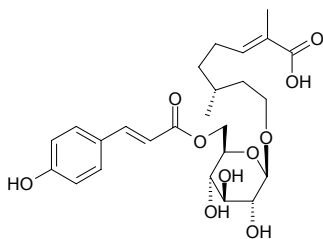
$C_{12}H_{14}O_4$ (222.24). Colorless needles. Pharm: Antifungal (*Aspergillus niger*, MIC = 50µg/mL control Nystatin, MIC = 12.5µg/mL; *Cladosporium herbarum*, MIC = 50µg/mL, Nystatin, MIC = 12.5µg/mL); antibacterial (*Bacillus subtilis*, MIC = 25µg/mL, control Chloramphenicol, MIC = 3.13µg/mL; *Pseudomonas syringae*, MIC = 100µg/mL, control Chloramphenicol, MIC = 3.13µg/mL). Source: *Cytospora eucalypticola*. Ref: 3367.

**6362 3,7-Dimethyl-8-hydroxy-6-methoxyisochroman**

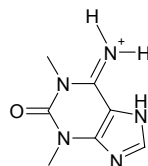
$C_{12}H_{16}O_3$ (208.26). Source: *Penicillium steckii*. Ref: 3960.

**6363 (2E,6R)-2,6-Dimethyl-8-hydroxy-2-octenoic acid 8-O-[6'-O-(E)-p-coumaroyl]-β-D-glucopyranoside**

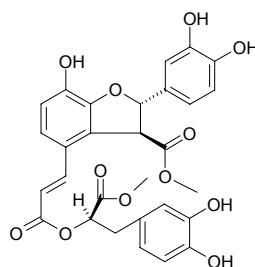
$C_{25}H_{34}O_{10}$ (494.54). Amorphous powder, $[\alpha]_D^{25} = -15.0^\circ$ ($c = 0.1$, MeOH). Source: ZI YE *Catalpa ovata* (leaf, fallen leaf). Ref: 3536, 4290.

**6364 1,3-Dimethylisoguaninium**

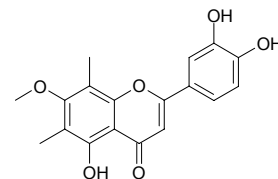
$C_7H_{10}N_5O^+$ (180.19). Colorless needles (EtOH). Pharm: Inhibits specifically basic fibroblast growth factor (bFGF)-induced proliferation of bovine aorta endothelial cells (BAECs); reduces tube formation of BAECs in a time-dependent manner. Source: Sponge *Amphimedon paraviridis*. Ref: 4351.

**6365 Dimethyl lithospermate**

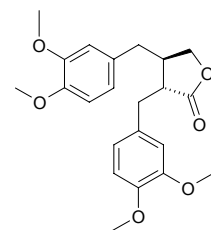
$C_{29}H_{26}O_{12}$ (566.52). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 0.1197$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mmol/L; superoxide radical inhibitor, inactive, Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, inactive, Propyl gallate, $IC_{50} = 0.064$ mmol/L). Source: MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindelofia stylosa* (aerial parts). Ref: 4533.

**6366 6,8-Di-C-methyllyuteolin 7-methyl ether**

$C_{18}H_{16}O_6$ (328.32). Yellow needles ($CHCl_3$ -MeOH), mp 288~290°C. Pharm: Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 500µg/mL, control Chlorhexidine gluconate, MIC = 1.25µg/mL; *Fusobacterium nucleatum*, MIC = 375µg/mL, Chlorhexidine gluconate, MIC = 2.5µg/mL). Source: BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root). Ref: 5418.

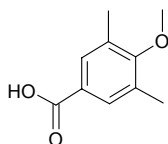
**6367 Dimethylmatairesinol**

$C_{22}H_{26}O_6$ (386.45). Pharm: Cytotoxic (A549, $ED_{50} = 1.9$ µmol/L, $ED_{50} = 5.0$ µg/mL, control Adriamycin, $ED_{50} = 0.01$ µmol/L, $ED_{50} = 0.02$ µg/mL; MCF7, $ED_{50} = 1.8$ µmol/L, $ED_{50} = 4.7$ µg/mL, Adriamycin, $ED_{50} = 0.1$ µmol/L, $ED_{50} = 0.1$ µg/mL; HT29, $ED_{50} = 1.4$ µmol/L, $ED_{50} = 3.5$ µg/mL, Adriamycin, $ED_{50} = 0.1$ µmol/L, $ED_{50} = 0.1$ µg/mL)^[5088]. Source: E SHEN *Anthriscus sylvestris*, TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). Ref: 5088, 5499.

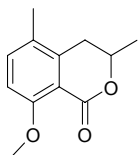


6368 3,5-Dimethyl-4-methoxybenzoic acid

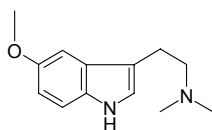
[21553-46-8] C₁₀H₁₂O₃ (180.21). mp 145°C. Source: JIAN YE FAN XIE YE *Cassia acutifolia*. Ref: 6, 660.

**6369 3,5-Dimethyl-8-methoxy-3,4-dihydroisocoumarin**

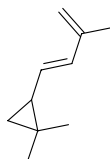
C₁₂H₁₄O₃ (206.24). Colorless needles. Source: *Cytospora eucalypticola*. Ref: 3367.

**6370 N,N-Dimethyl-5-methoxy tryptamine**

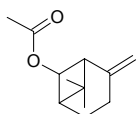
5-Methoxy-N,N-dimethyl-tryptamine [1019-45-0] C₁₃H₁₈N₂O (218.30). mp 47°C. Pharm: Toxin (similar action with bufotenine). Source: WU ZHU YU *Evodia rutaecarpa*, HONG MU JI CAO *Desmodium gangeticum*, PAI QIAN CAO *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], YI CAO *Phalaris arundinacea*. Ref: 2, 6, 658.

**6371 1,1-Dimethyl-2-(3-methyl-1,3-butadiene)cyclo-propane**

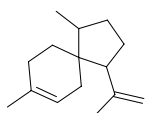
C₁₀H₁₆ (136.24). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**6372 7,7-Dimethyl-2-methylenebicyclo[3.1.1]heptan-6-ol acetate**

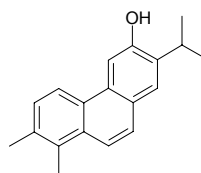
C₁₂H₁₈O₂ (194.28). Colorless oil. Source: *Psiadia anchusifolia* (fresh leaf). Ref: 3787.

**6373 1,8-Dimethyl-4-(1-methylenyl)-spiro(4,5) dec-7-ene**

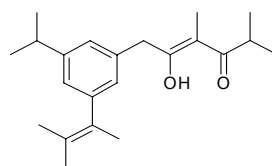
Isoacoradinene C₁₅H₂₄ (204.36). Source: DANG GUI *Angelica sinensis*, WU WEI ZI *Schisandra chinensis*. Ref: 2, 660.

**6374 7,8-Dimethyl-2-(1-methylethyl)phenanthren-3-ol**

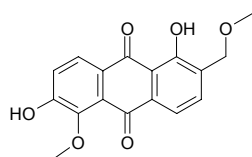
C₁₉H₂₀O (264.37). Yellowish gum. Source: XIU QIU SHU WEI CAO *Salvia hydrangea* (root). Ref: 5447.

**6375 2,4-Dimethyl-6-(3'-methyl-isobuten-5'-isopropyl)-phenyl-3,5-hexanedione**

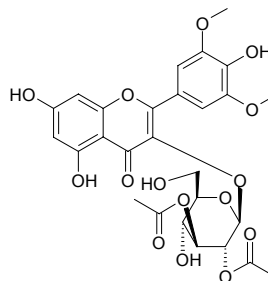
C₂₂H₃₂O₂ (328.50). Brick red oil. Source: XIAN MAI XUAN FU HUA *Inula nervosa*. Ref: 795.

**6376 5,15-Dimethylmorindol**

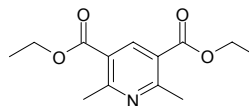
C₁₇H₁₄O₆ (314.30). Yellow amorphous powder. Source: HAI BA JI *Morinda citrifolia* (fruit). Ref: 4542.

**6377 3',5'-O-Dimethylmyricetin 3-O-β-D-2'',3''-diacetylglucopyranoside**

C₂₇H₂₈O₁₅ (592.52). Yellow amorphous powder, mp>250°C. Source: *Warburgia stuhlmannii* (leaf). Ref: 3398.

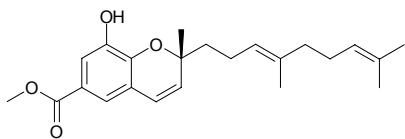
**6378 2,6-Di-C-methyl-nicotinic acid 3,5-diethyl ester**

C₁₃H₁₇NO₄ (251.28). Colorless needles. Source: *Viburnum tinus* (leaf). Ref: 5339.

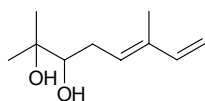


6379 2-(4',8'-Dimethylnona-3',7'-dienyl)-8-hydroxy-2-methyl-2H-chromene-6-carboxylic methyl ester

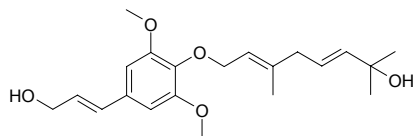
$C_{23}H_{30}O_4$ (370.49). Brown amorphous solid. Source: SAN XING HU JIAO *Piper umbellatum* (branch), DUN YE HU JIAO *Piper peltatum* (branch). Ref: 5274.

**6380 (5E)-2,6-Dimethyl-5,7-octadiene-2,3-diol**

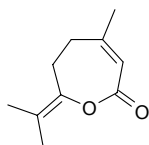
$C_{10}H_{18}O_2$ (170.25). Colorless oil. $[\alpha]_D^{23} = -19.7^\circ$ ($c = 0.62$, MeOH). Source: DA GUO XI FAN LIAN *Passiflora quadrangularis* (fruit). Ref: 3900.

**6381 4-O-[(2E,5E)-3,7-Dimethyl-2,5-octadiene-7-ol]-sinapyl alcohol**

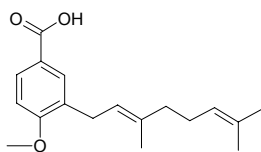
$C_{21}H_{30}O_5$ (362.47). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root, yield = 0.0013%dw). Ref: 4632.

**6382 3,7-Dimethyl-2,6-octadien-1,6-olide**

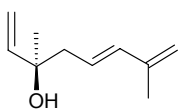
$C_{10}H_{14}O_2$ (166.22). Source: *Plagiochila rutilans*. Ref: 5144.

**6383 3-(3',7'-Dimethyl-2',6'-octadienyl)-4-methoxybenzoic acid**

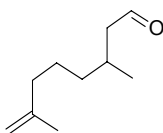
$C_{18}H_{24}O_3$ (288.39). Amorphous solid. Source: GOU ZHUANG HU JIAO *Piper aduncum*. Ref: 2323.

**6384 3,7-Dimethyl-1,5,7-octatrien-3-ol**

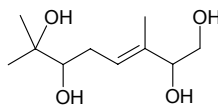
$C_{10}H_{16}O$ (152.24). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**6385 3,7-Dimethyl-7-octenal**

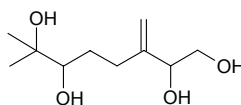
[141-26-4] $C_{10}H_{18}O$ (154.25). Source: JU PI *Citrus reticulata*. Ref: 2.

**6386 (3E)-3,7-Dimethyl-3-octene-1,2,6,7-tetrol**

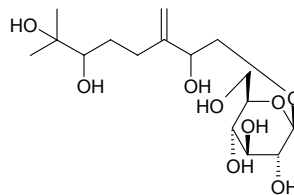
$C_{10}H_{20}O_4$ (204.27). Colorless oil. $[\alpha]_D^{25} = -11.9^\circ$ ($c = 0.67$, MeOH). Source: DA GUO XI FAN LIAN *Passiflora quadrangularis* (fruit). Ref: 3900.

**6387 3,7-Dimethyloct-3(10)-ene-1,2,6,7-tetrol**

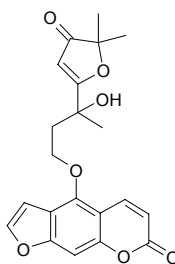
$C_{10}H_{20}O_4$ (204.27). Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**6388 (2S,6Z)-3,7-Dimethyloct-3(10)-ene-1,2,6,7-tetrol 1-O-beta-D-glucopyranoside**

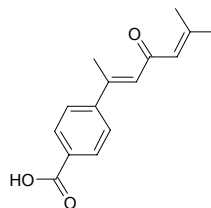
$C_{16}H_{30}O_9$ (366.41). Amorphous powder, $[\alpha]_D^{24} = -21^\circ$ ($c = 0.5$, MeOH). Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**6389 O-[3-(2,2-Dimethyl-3-oxo-2H-furan-5-yl)-3-hydroxybutyl]bergaptol**

$C_{21}H_{20}O_7$ (384.39). Colorless needles (hexane-EtOAc), mp 168-169°C, $[\alpha]_D = -5.0^\circ$ ($c = 0.12$, MeOH). Source: TUO YUAN DUO TAN CAO *Dorstenia elliptica* (twig). Ref: 3754.

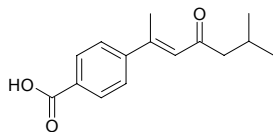
**6390 (E)-4-(1,5-Dimethyl-3-oxo-1,4-hexadienyl)benzoic acid**

$C_{15}H_{16}O_3$ (244.29). mp 156°C. Pharm: Antifungal (TLC bioautography method at very low concentration). Source: SI LI LAN KA TU MI SHU *Bridelia retusa*. Ref: 2021.

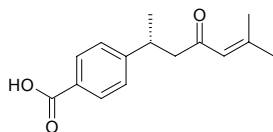


6391 (E)-4-(1,5-Dimethyl-3-oxo-1-hexenyl)benzoic acid

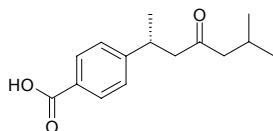
$C_{15}H_{18}O_3$ (246.31). mp 122°C. Pharm: Antifungal (TLC bioautography method at very low concentration). Source: SI LI LAN KA TU MI SHU *Bridelia retusa*. Ref: 2021.

**6392 (R)-4-(1,5-Dimethyl-3-oxo-4-hexenyl)benzoic acid**

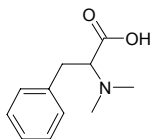
$C_{15}H_{18}O_3$ (246.31). mp 83~88°C, $[\alpha]_D^{25} = -68.1^\circ$ ($c = 0.34$, $CHCl_3$). Pharm: Antifungal (TLC bioautography method at very low concentration). Source: SI LI LAN KA TU MI SHU *Bridelia retusa*. Ref: 2021.

**6393 (R)-4-(1,5-Dimethyl-3-oxohexyl)benzoic acid**

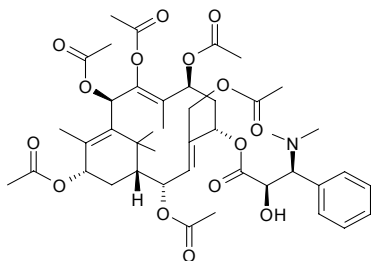
$C_{15}H_{20}O_3$ (248.32). mp 62°C, $[\alpha]_D^{25} = -26.3^\circ$ ($c = 0.63$, $CHCl_3$). Pharm: Antifungal (TLC bioautography method at very low concentration). Source: SI LI LAN KA TU MI SHU *Bridelia retusa*. Ref: 2021.

**6394 N,N-Dimethylphenylalanine**

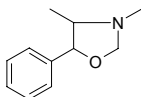
$C_{11}H_{15}NO_2$ (193.15). Colorless acicular crystals. Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 2180.

**6395 (2'S,3'R)-5-(N,N-Dimethyl-3'-phenylisoseril)-taxachitriene A**

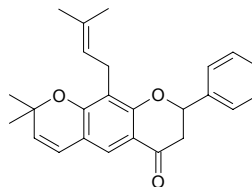
$C_{43}H_{57}NO_{15}$ (827.93). mp 93~95°C, $[\alpha]_D = +22.3^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**6396 3,4-Dimethyl-5-phenyloxazolidine**

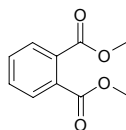
$C_{11}H_{15}NO$ (177.25). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**6397 8,8-Dimethyl-2-phenyl-10-prenyl-2,3-dihydro-8H-pyrano[3,2-g]chroman-4-one**

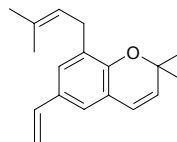
$C_{25}H_{26}O_3$ (374.48). Colorless needles (petroleum ether : $CHCl_3 = 10:1$), mp 121~122°C. Source: GAN HUA DOU *Fordia cauliflora* (stem). Ref: 4564.

**6398 Dimethyl phthalate**

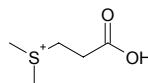
[131-11-3] $C_{10}H_{10}O_4$ (194.19). Source: DANG GUI *Angelica sinensis*. Ref: 2.

**6399 2,2-Dimethyl-8-prenyl-6-vinylchromene**

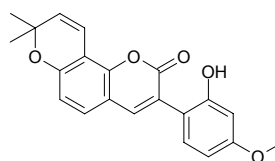
$C_{18}H_{22}O$ (254.38). Colorless oil. Source: FENG JIAO *Apis mellifera ligustica*. Ref: 4124.

**6400 Dimethyl-β-propriothetin**

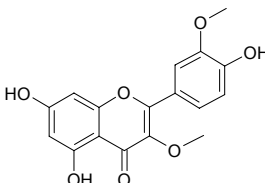
[4337-33-1] $C_5H_{11}O_2S^+$ (135.11). Source: SHI CHUN *Ulva lactuca*. Ref: 6.

**6401 [6'',6''-Dimethylpyrano-(2'',3'':7,8)]-4'-methoxy-3-arylcoumarin**

$C_{21}H_{18}O_5$ (350.37). Source: *Glycyrrhiza* sp. Ref: 2431.

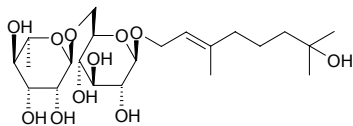
**6402 3,3'-Dimethylquercetin**

3,3'-Dimethoxyquercetin [4382-17-6] $C_{17}H_{14}O_7$ (330.29). Yellowish acicular crystals (methanol), mp 255°C. Pharm: Antifungal; antiviral (epidemic type-1 poliomyelitis virus and Gesak-B₄ virus, 0.01μg/mL, InRt = 90%); cytotoxic (P₃₈₈, ED₅₀ = 1.7μg/mL); insect antifeedant (boll weevil); smooth muscle relaxant. Source: E BU SHI CAO *Centipeda minima*, GAN CAO *Glycyrrhiza uralensis*, LU CAO *Rhaponticum carthamoides*. Ref: 171, 660, 900, 4006, 4007.



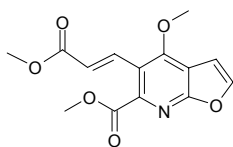
6403 (E)-3,7-Dimethyl-1-O-[α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-oct-2-en-7-ol

$C_{22}H_{40}O_{11}$ (480.56). Viscous solid, $[\alpha]_D^{24.3} = -57.0^\circ$ ($c = 0.383$, MeOH).
Source: YU YE GUI DENG QING *Rodgersia pinnata* (rhizome). **Ref:** 4570.



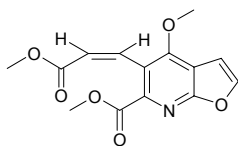
6404 E-Dimethyl rhoifolinate

$C_{14}H_{13}NO_6$ (291.26). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 8.1 μ g/mL, control Mithramycin, ED₅₀ = 0.06 μ g/mL; HT29, ED₅₀ = 13.5 μ g/mL, Mithramycin, ED₅₀ = 0.07 μ g/mL; A549, ED₅₀ = 3.6 μ g/mL, Mithramycin, ED₅₀ = 0.08 μ g/mL)^[5405]. **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.



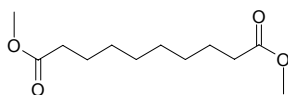
6405 Z-Dimethyl rhoifolinate

$C_{14}H_{13}NO_6$ (291.26). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 8.0 μ g/mL, control Mithramycin, ED₅₀ = 0.06 μ g/mL; HT29, ED₅₀ = 16.2 μ g/mL, Mithramycin, ED₅₀ = 0.07 μ g/mL; A549, ED₅₀ = 3.4 μ g/mL, Mithramycin, ED₅₀ = 0.08 μ g/mL). **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.



6406 Dimethyl sebacate

[106-79-6] $C_{12}H_{22}O_4$ (230.31). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.



6407 Dimethyl sulfide

[75-18-3] C_2H_6S (62.13). bp 37.5~38.0°C. **Source:** DA SUAN *Allium sativum*, SHUI SONG *Codium fragile*. **Ref:** 6.



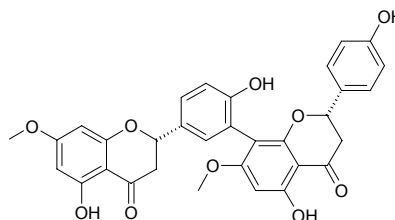
6408 Dimethyl sulfone

Sulfonyl bis-methane [67-71-0] $C_2H_6O_2S$ (94.13). **Source:** MU ZEI *Equisetum hiemale*. **Ref:** 2.



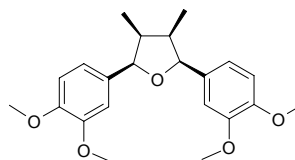
6409 (2S,2''S)-7,7''-Di-O-methyltetrahydroaemtoflavone

$C_{32}H_{26}O_{10}$ (570.56). Yellow amorphous powder, $[\alpha]_D = -25.4^\circ$ ($c = 0.024$, Me₂SO). **Pharm:** Antimalarial (*Plasmodium falciparum* W2, IC₅₀ = 0.98 μ g/mL, control Chloroquine, IC₅₀ = 0.238 μ g/mL; *Plasmodium falciparum* D6, IC₅₀ = 2.8 μ g/mL, Chloroquine, IC₅₀ = 0.026 μ g/mL); cytotoxic inactive. **Source:** SHU ZHI YAN FU MU *Rhus retinorrhoea* (leaf). **Ref:** 5201.



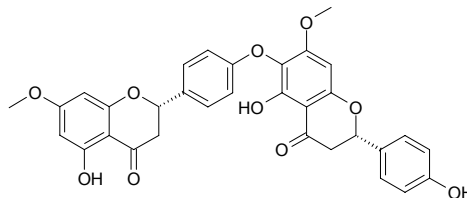
6410 Di-O-methyltetrahydrofuruaiacin B

$C_{22}H_{28}O_5$ (372.47). Amorphous powder, $[\alpha]_D = +43^\circ$ ($c = 0.5$, CHCl₃). **Source:** SAN BAI CAO *Saururus chinensis* (underground part). **Ref:** 4122.



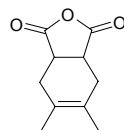
6411 7,7''-Di-O-methyltetrahydrohinokiflavone

$C_{32}H_{26}O_{10}$ (570.56). Colorless needles (Me₂CO), mp 226~228°C, $[\alpha]_D^{25} = -1.45^\circ$ ($c = 1.0$, MeOH). **Source:** NAN YIN DU SU TIE SHU GUO *Cycas beddomei* (stem). **Ref:** 3929.



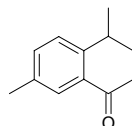
6412 5,6-Dimethyl-3a,4,7,7a-tetrahydro-1,3-isoben-zofurandione

$C_{10}H_{12}O_3$ (180.21). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.



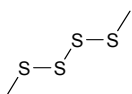
6413 4,7-Dimethyl-1-tetralone

1,6-Dimethyl-4-keto-tetrahydronaphthalene [28449-86-7] $C_{12}H_{14}O$ (174.24). Oil, bp 118°C/4mmHg, bp 146.5~147.0°C/11.5mmHg, bp 145~152°C/15mmHg, $[\alpha]_D^{20} = +5.60^\circ$ ($c = 0.3035$, chloroform). **Pharm:** Antimalarial (*in vitro*, *Plasmodium falciparum*, EC₅₀ = 86.2 μ mol/L). **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 900, 1089.

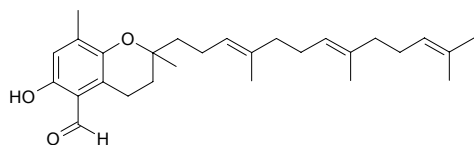


6414 Dimethyl tetrasulfide

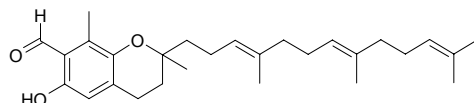
[5756-24-1] C₂H₆S₄ (158.33). Source: JIU CAI *Allium tuberosum*. Ref: 6.

**6415 2,8-Dimethyl-2-[(3E,7E)-4,8,12-trimethyltrideca-3,7,11-trienyl]-5-formyl-chroman-6-ol**

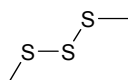
C₂₈H₄₀O₃ (424.63). Pale yellow oil, [α]_D²⁵ = -11.1° (c = 0.18, MeOH). Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**6416 2,8-Dimethyl-2-[(3E,7E)-4,8,12-trimethyltrideca-3,7,11-trienyl]-7-formyl-chroman-6-ol**

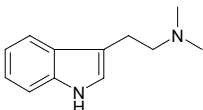
C₂₈H₄₀O₃ (424.63). Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**6417 Dimethyl trisulfide**

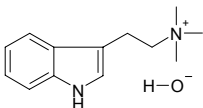
[3658-80-8] C₂H₆S₃ (126.26). Source: DA SUAN *Allium sativum*. Ref: 2.

**6418 N,N-Dimethyltryptamine**

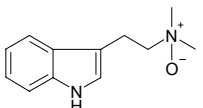
[61-50-7] C₁₂H₁₆N₂ (188.27). mp 48–49°C. Pharm: Causes mental illness; increases blood pressure; mydriatic. Source: CI YANG LI DOU *Mucuna pruriens*, LU ZHU GEN *Arundo donax*, HONG MU JI CAO *Desmodium gangeticum*, PAI QIAN CAO *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*]. Ref: 6, 658.

**6419 N,N-Dimethyltryptamine-methoxyhydroxide**

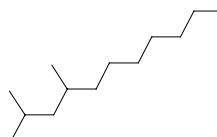
C₁₃H₂₀N₂O (203.31). Source: LU ZHU GEN *Arundo donax*. Ref: 6.

**6420 N,N-Dimethyltryptamine N-oxide**

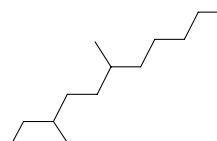
C₁₂H₁₆N₂O (204.27). Pharm: Uterine stimulant. Source: CI YANG LI DOU *Mucuna pruriens*, HONG MU JI CAO *Desmodium gangeticum*, PAI QIAN CAO *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*]. Ref: 6.

**6421 2,4-Dimethyl-undecane**

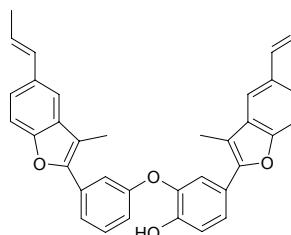
C₁₃H₂₈ (184.37). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**6422 3,6-Dimethyl-undecane**

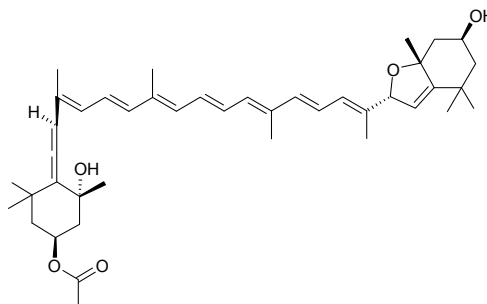
C₁₃H₂₈ (184.37). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.

**6423 Dineolignan**

C₃₆H₃₀O₄ (526.64). Yellow viscous oil. Source: TE LI NI DA HU JIAO *Piper aequale*. Ref: 1910.

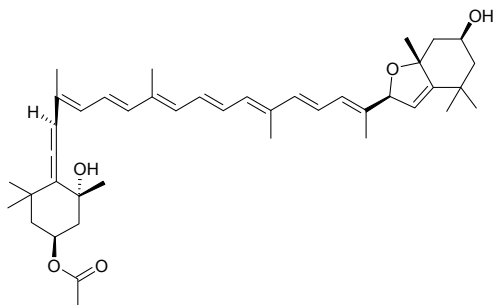
**6424 Dinochrome A**

(3*S*,5*R*,6*R*,3'*S*,5'*R*,8'*R*)-Epoxy-6,7-didehydro-5,6,5',8'-tetrahydro-β,β-c arotene-3,5,3'-triol 3-*O*-acetate C₄₂H₅₈O₅ (642.93). Yellow crystal. Pharm: Anti-carcinogenic (inhibits 50nmol/L 12-*O*-tetradecanoyl phorbol 13-acetate (TPA)-stimulated ³²P-incorporation into the phospholipids of HeLa cells, 25μg/mL, InRt = 72.1%; inhibits the proliferation of hmn malignant tumor cells, such as GOTO, OST and HeLa cells). Source: ER JIAO DUO JIA ZAO *Peridinium bipes*. Ref: 4256.

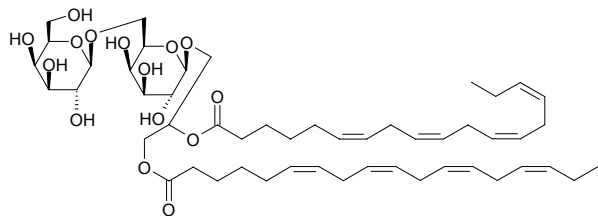


6425 Dinochrome B

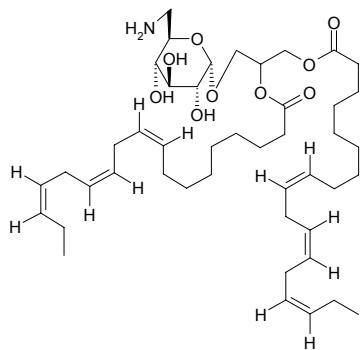
(3*S*,5*R*,6*R*,3'*S*,5'*R*,8'*S*)-5',8'-Epoxy-6,7-didehydro-5,6,5',8'-tetrahydro- β - β -carotene-3,5,3'-triol 3-*O*-acetate C₄₂H₅₈O₅ (642.93). Yellow crystal. **Pharm:** Anti-carcinogenic (inhibits 50nmol/L 12-*O*-tetradecanoyl phorbol 13-acetate (TPA)-stimulated ³²P-incorporation into the phospholipids of HeLa cells, 25 μ g/mL, InRt = 35.0%). **Source:** ER JIAO DUO JIA ZAO *Peridinium bipes*. **Ref:** 4256.

**6426 (2*S*)-1,2-*O*-6,9,12,15-Dioctadecatetraenoyl-3-*O*-[α -*D*-galactopyranosyl-(1'''' \rightarrow 6''')-*O*- β -*D*-galactopyranosyl]-glycerol**

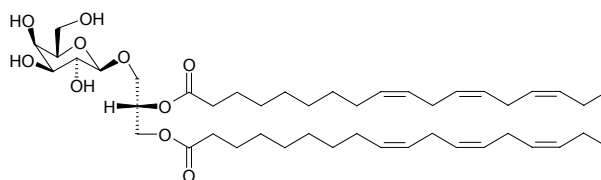
C₅₁H₈₀O₁₅ (933.20). [α]_D²⁵ = +52° (*c* = 0.80, MeOH). **Source:** KA SHI QIAN GOU ZAO *Amphidinium carterae*. **Ref:** 4448.

**6427 1,2-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-(6-*amino*-6-*deoxy*- α -*D*-glucosyl)-glycerol**

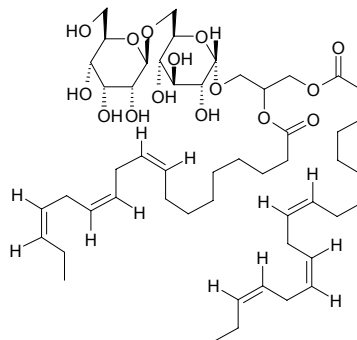
C₄₅H₇₅NO₉ (774.10). Colorless gum, [α]_D²⁴ = +25.5° (*c* = 3.01, MeOH). **Pharm:** Antibacterial (*Bacillus subtilis*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm; *Escherichia coli*, IZD = 16~20mm, Chloramphenicol, IZD = 16~20mm; *Staphylococcus aureus*, IZD = 10~12mm, Chloramphenicol, IZD = 16~20mm); cytotoxic (SMMC-7721, IC₅₀ = (351.4 \pm 6.1) μ g/mL, control Vincristine, IC₅₀ = (63.2 \pm 1.8) μ g/mL; B16, IC₅₀ = (157.3 \pm 2.5) μ g/mL, Vincristine, IC₅₀ = (70.7 \pm 2.8) μ g/mL; HeLa, IC₅₀ = (168.2 \pm 1.9) μ g/mL, Vincristine, IC₅₀ = (67.2 \pm 2.2) μ g/mL). **Source:** YI BAO MA HUA TOU *Serratula strangulata* (root stem). **Ref:** 5244.

**6428 (2*S*)-1,2-*O*-[(9*Z*,12*Z*,15*Z*)-octadeca-9,12,15-trienoyl]-3-*O*- β -*D*-galactopyranosyl glycerol**

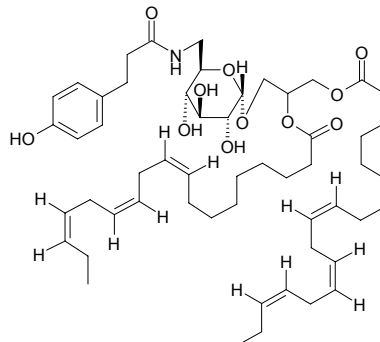
C₄₅H₇₄O₁₀ (775.09). Colorless oil, [α]_D²⁶ = -3.0° (*c* = 0.4 CHCl₃). **Pharm:** Anti-inflammatory (inhibits chemotaxis of hmn peripheral blood neutrophils *in vitro*, The inhibiting activity at 100, 50, 10, 1, and 0.1 μ g/mL, InRt = 82%, 77%, 62%, 64%, and 7%, respectively). **Source:** QUAN CHI QIANG WEI *Rosa canina* (fruit: yield = 0.025%dw). **Ref:** 4705.

**6429 1,2-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-[α -*D*-glucose(1 \rightarrow 6)- β -*D*-allose]-glycerol**

C₅₁H₈₄O₁₅ (937.23). Colorless gum, [α]_D²⁴ = +25.3° (*c* = 6.01, MeOH). **Pharm:** Antibacterial (*Bacillus subtilis*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm; *Escherichia coli*, IZD = 13~15mm, Chloramphenicol, IZD = 16~20mm; *Staphylococcus aureus*, IZD = 10~12mm, Chloramphenicol, IZD = 16~20mm). **Source:** YI BAO MA HUA TOU *Serratula strangulata* (root stem). **Ref:** 5244.

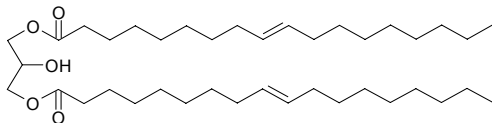
**6430 1,2-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-(6-*p*-hydroxy-phenyl-propionamido-6-*deoxy*- α -*D*-glucosyl)-glycerol**

C₅₄H₈₃NO₁₁ (922.26). Colorless gum, [α]_D²⁴ = +25.8° (*c* = 2.7, MeOH). **Pharm:** Antibacterial (*Bacillus subtilis*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm; *Escherichia coli*, IZD = 16~20mm, Chloramphenicol, IZD = 16~20mm; *Staphylococcus aureus*, IZD = 10~12mm, Chloramphenicol, IZD = 16~20mm); cytotoxic (SMMC-7721, IC₅₀ = (151.6 \pm 6.3) μ g/mL, control Vincristine, IC₅₀ = (63.2 \pm 1.8) μ g/mL; B16, IC₅₀ = (70.3 \pm 2.2) μ g/mL, Vincristine, IC₅₀ = (70.7 \pm 2.8) μ g/mL; HeLa, IC₅₀ = (121.9 \pm 3.1) μ g/mL, Vincristine, IC₅₀ = (67.2 \pm 2.2) μ g/mL). **Source:** YI BAO MA HUA TOU *Serratula strangulata* (root stem). **Ref:** 5244.

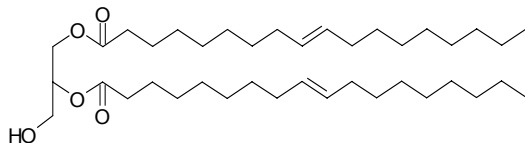


6431 α : α -Diolein

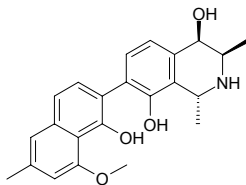
[98168-52-6] C₃₉H₇₂O₅ (621.01). mp 21.5°C, 25°C. Source: MANG GUO HE *Mangifera indica*. Ref: 6.

**6432 α : β -Diolein**

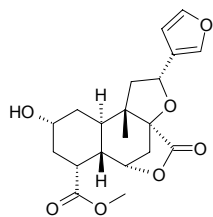
C₃₉H₇₂O₅ (621.01). Source: MANG GUO HE *Mangifera indica*. Ref: 6.

**6433 Dioncophyllinol B**

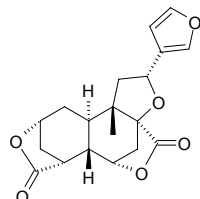
C₂₃H₂₅NO₄ (379.46). Pharm: Antimalarial (*Plasmodium falciparum* K1, IC₅₀ = 34ng/mL, NF54, IC₅₀ = 43ng/mL, MIC > 200µg/mL). Source: SAN YE MU *Triphyophyllum peltatum* (leaf). Ref: 3962.

**6434 Diosbulbin A**

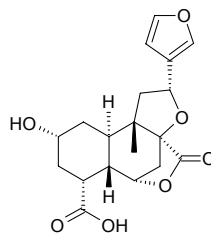
[20086-05-9] C₂₀H₂₄O₇ (376.41). mp 265°C. Source: HUANG YAO ZI *Dioscorea bulbifera*. Ref: 6, 641.

**6435 Diosbulbin B**

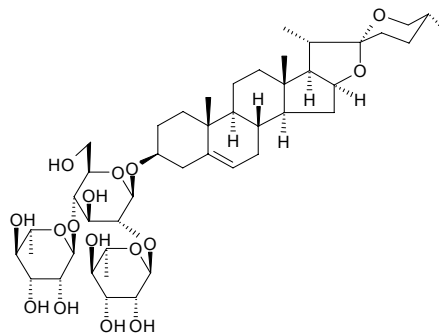
[20086-06-0] C₁₉H₂₀O₆ (344.37). mp 285°C (dec). Source: HUANG YAO ZI *Dioscorea bulbifera*. Ref: 6, 641.

**6436 Diosbulbin C**

[20086-07-1] C₁₉H₂₂O₇ (362.38). mp 247~250°C (dec). Source: HUANG YAO ZI *Dioscorea bulbifera*. Ref: 6, 641.

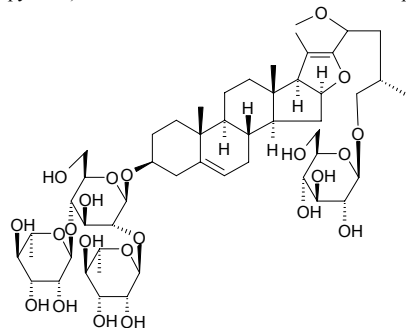
**6437 Dioscin**

[19057-60-4] C₄₅H₇₂O₁₆ (869.07). White amorphous powder, mp 288°C, [α]_D²⁰ = -115° (c = 0.4, MeOH); [α]_D²⁵ = -108.0° (c = 0.07, pyridine). Pharm: Antifungal (hmn pathogenic yeasts *Candida albicans*, MIC = 12.5µg/mL; *Candida glabrata*, MIC = 12.5µg/mL; *Candida tropicalis*, MIC = 25µg/mL)^[4931]; antifungal (*Trichophyton mentagrophytes*); insecticidal; cytotoxic (HL-60); cytotoxic (*in vitro*: A375, IC₅₀ = (2.38±1.12)µmol/L, control Mithramycin, IC₅₀ = (0.37±0.05)µmol/L; L-929, IC₅₀ = (2.67±1.38)µmol/L, Mithramycin, IC₅₀ = (0.31±0.03)µmol/L; HeLa, IC₅₀ = (3.06±1.95)µmol/L, Mithramycin, IC₅₀ = (0.19±0.03)µmol/L)^[5000]. Source: BAI YAO ZI *Stephania cepharantha*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], CHUAN LONG SHU YU *Dioscorea nipponica*, CI JI LI *Tribulus terrestris*, FU ZHOU SHU YU *Dioscorea futschauensis*, HUANG SHAN YAO *Dioscorea panthaica*, LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], MIAN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.0019%)^[4692], RI BEN SHU YU *Dioscorea japonica*, SHAN BI XIE *Dioscorea tokoro*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], SHU KUI YE SHU YU *Dioscorea althaeoides*, XIAN XI SHU YU *Dioscorea gracillima*, ZAO XIU *Paris polyphylla*, HU BEI HUANG JING *Polygonatum zanlanscianense*, *Dioscorea cayenensis* (rhizome), *Costus* sp., *Trigonella* sp. Ref: 4, 10, 658, 660, 2165, 4692, 4696, 4931, 5000, 5501.

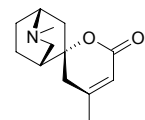


6438 Dioscoreside C

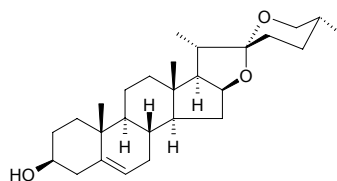
$C_{52}H_{84}O_{22}$ (1061.24). White powder, mp 180~182°C, $[\alpha]_D^{25} = -54.2^\circ$ ($c = 0.005$, pyridine). Source: HUANG SHAN YAO *Dioscorea panthaica*. Ref: 867, 2075.

**6439 Dioscorine**

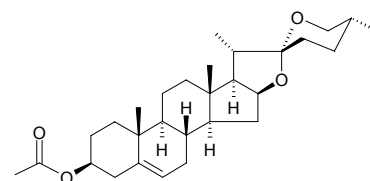
[3329-91-7] $C_{13}H_{19}NO_2$ (221.30). mp 55°C. Pharm: Anticholinergic (gpg ileum, *in vitro*); enhances action to boost blood pressure caused by adrenalin (anesthetic cat); local anesthetic (gpg, local injection); similar action with cocaine. Source: BAI SHU LANG *Dioscorea hispida*, CU MAO SHU YU *Dioscorea hirsuta*. Ref: 6, 658.

**6440 Diosgenin**

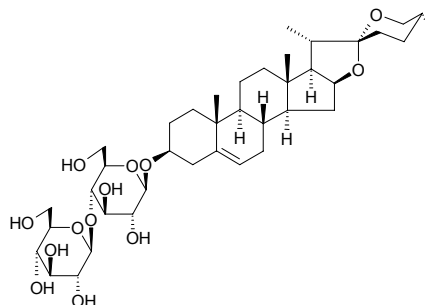
Dioscorea sapogenin [512-04-9] $C_{27}H_{42}O_3$ (414.63). mp 205~206°C; 189~192°C; 196~198°C; 204~205°C; 199~202°C; from moldy source plant, both mp and content of sapogenin decreasing, mp 195~196°C; 176~178°C; 186~194°C; 194~195°C; 180~192°C. Pharm: Estrogenic activity; antihypercholesterolemic (reduces the level of cholesterol in serum). Source: BAI SHU LANG *Dioscorea hispida*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*] (dried rhizome: mean content of 3 batch samples = 1.24%^[5508]), CHA RUI SHU YU *Dioscorea collettii*, CHAI HUANG JIANG *Dioscorea nipponica* ssp. *rosthornii*, CHANG YAO GE CHONG LOU *Paris polyphylla* var. *pseudothibetica* (rhizome: content = 0.83%^[5508]), CHUAN LONG SHU YU *Dioscorea nipponica* (dried rhizome: content = 1.73%^[5508]), DUN YE SHU YU *Dioscorea zingiberensis* (dried rhizome: mean content = 2.39%^[5508]), FANG JI YE BA QIA *Smilax menispermoides*, FU ZHOU SHU YU *Dioscorea futschauensis*, HU LU BA *Trigonella foenum-graecum* (dried ripe seed: mean content of 3 origins = 12.9%^[5508]), HUANG SHAN YAO *Dioscorea panthaica*, LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], MAI DONG *Ophiopogon japonicus* (dried tuberoid: mean content = 0.005%^[5508]), MIAN BI XIE(I) *Dioscorea septemloba*, QIU YAO GE CHONG LOU *Paris fargesii* (rhizome: content = 1.08%^[5508]), SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*] (rhizome: content = 0.012%^[5508]), SHU KUI YE SHU YU *Dioscorea althaeoides*, XIA YE CHONG LOU *Paris polyphylla* var. *stenophylla* (rhizome: content = 0.86%^[5508]), XIAN XI SHU YU *Dioscorea gracillima*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*, YUN NAN CHONG LOU *Paris polyphylla* var. *yunnanensis* (rhizome: mean content = 0.94%^[5508]), ZAO XIU *Paris polyphylla* (rhizome: content = 0.90%^[5508]), ZHANG LIU TOU *Costus speciosus*, *Paris* sp., *Trillium* sp., *Trigonella* sp. Ref: 10, 658, 660, 4696, 5501, 5508.

**6441 Diosgenin acetate**

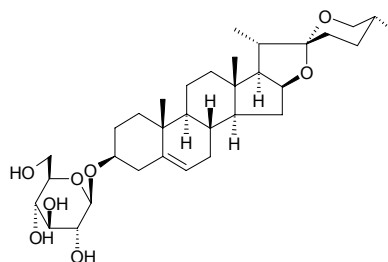
$C_{29}H_{44}O_4$ (456.67). Source: FANG JI YE BA QIA *Smilax menispermoides*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*]. Ref: 10, 660.

**6442 Diosgenin-3-di-beta-O-glucopyranoside**

Diosgenin-dioglucoside $C_{39}H_{62}O_{13}$ (738.92). mp 271~273°C. Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], DUN YE SHU YU *Dioscorea zingiberensis*. Ref: 6, 10.

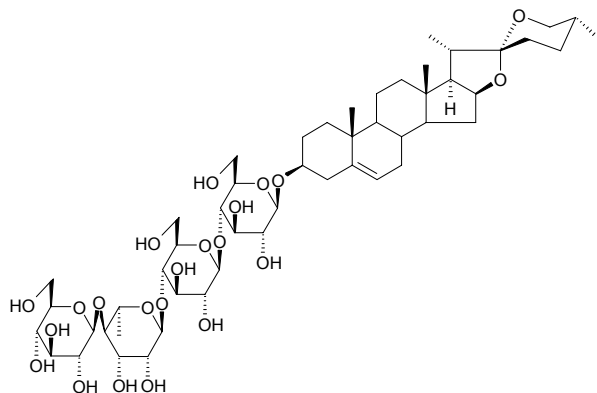
**6443 Diosgenin-3-O-beta-D-glucopyranoside**

Trillin $C_{33}H_{52}O_8$ (576.78). mp 274°C; 275~280°C. Source: DUN YE SHU YU *Dioscorea zingiberensis*, CHUAN LONG SHU YU *Dioscorea nipponica*, FU ZHOU SHU YU *Dioscorea futschauensis*, YAN LING CAO *Trillium tschonoskii*, ZAO XIU *Paris polyphylla*. Ref: 6, 10, 660.



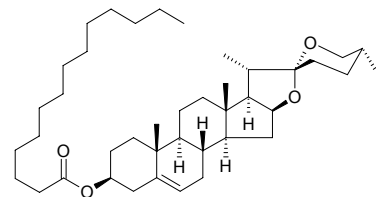
6444 Diosgenin 3-O- β -D-glucopyranosyl (1 \rightarrow 4)- α -L-rhamnopyranosyl (1 \rightarrow 4)- β -D-glucopyranosyl (1 \rightarrow 4)- β -D-glucopyranoside

$C_{51}H_{82}O_{22}$ (1047.21). White powder crystals, mp 229~233°C (des), $[\alpha]_D = -70.42^\circ$ ($c = 0.738$, MeOH). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 4578.



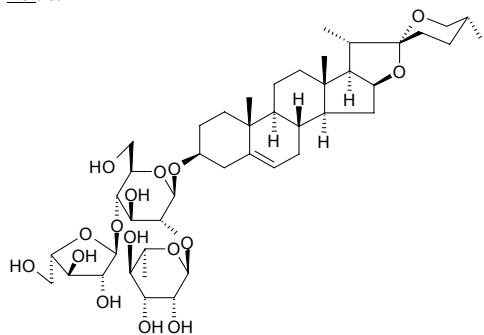
6445 Diosgenin palmitate

$C_{43}H_{72}O_4$ (653.05). Source: CHA RUI SHU YU *Dioscorea collettii*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*]. Ref: 10, 660.



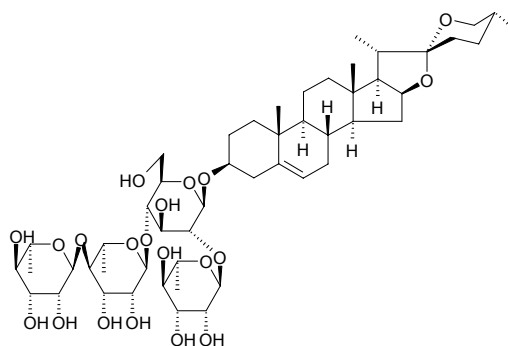
6446 Diosgenin 3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-[α -L-arabinofuranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside

$C_{44}H_{70}O_{16}$ (855.04). mp 276~278°C (dec). Source: ZAO XIU *Paris polyphylla*. Ref: 6.



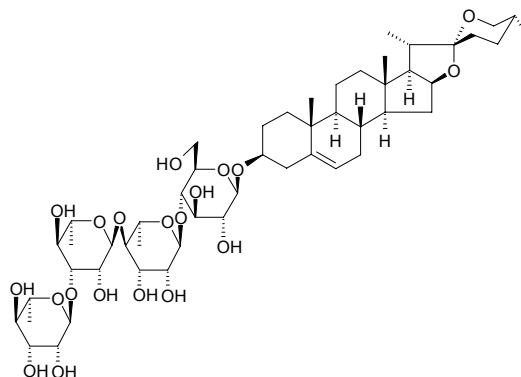
6447 Diosgenin 3-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 4)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranoside

Diosgenin tetraglycoside $C_{51}H_{82}O_{20}$ (1015.21). White amorphous powder, $[\alpha]_D^{20} = -113^\circ$ ($c = 0.57$, MeOH); mp 203~206°C (dec). Pharm: Antifungal (hmm pathogenic yeasts *Candida albicans*, MIC = 100 μ g/mL; *Candida glabrata*, MIC = 200 μ g/mL; *Candida tropicalis*, MIC > 200 μ g/mL)^[4931]; cytotoxic (HSC-2 cells, LD₅₀ = 2 μ g/mL; HGF, LD₅₀ = 2.8 μ g/mL)^[3023]. Source: *Dioscorea cayenensis* (rhizome), YE XIANG SHU *Cestrum nocturnum* (leaf: yield = 0.0024%fw), ZAO XIU *Paris polyphylla*. Ref: 4931, 6, 3023.



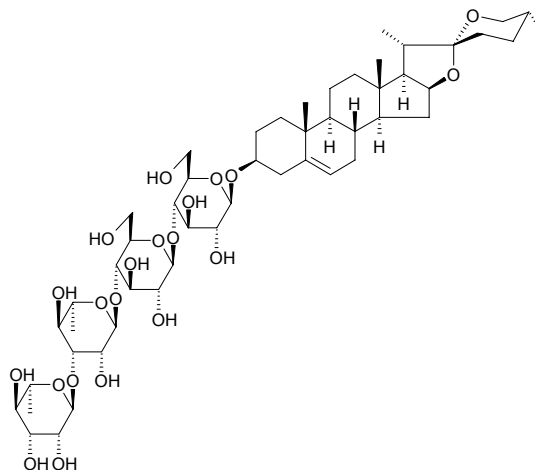
6448 Diosgenin 3-O-[α -L-rhamnopyranosyl (1 \rightarrow 3)- α -L-rhamnopyranosyl (1 \rightarrow 4)]- β -D-glucopyranoside

$C_{51}H_{82}O_{20}$ (1015.21). Colorless acicular crystals, mp 216~218°C (dec.), $[\alpha]_D^{20} = -96.2^\circ$ ($c = 0.38$, pyridine), easily solving in pyridine, solving in methanol, ethanol and water. Source: CHUAN LONG SHU YU *Dioscorea nipponica*. Ref: 2227.



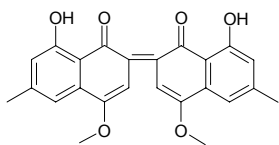
6449 Diosgenin 3-O- α -L-rhamnopyranosyl (1 \rightarrow 3)- α -L-rhamnopyranosyl (1 \rightarrow 4)- β -D-glucopyranosyl (1 \rightarrow 4)- β -D-glucopyranoside

$C_{51}H_{82}O_{21}$ (1031.21). White granular crystals, mp 196~197°C (des), $[\alpha]_D^{20} = -78.92^\circ$ ($c = 0.937$, MeOH). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 4578.

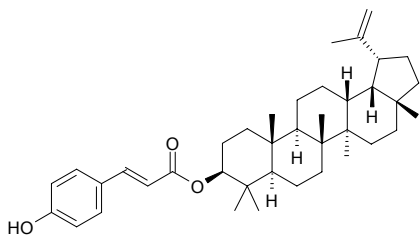


6450 Diosindigo A

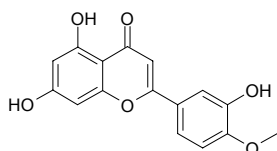
$C_{24}H_{20}O_6$ (404.42). Deep blue needles (petrol ether-chloroform), Source: *Diospyros sylvatica* (root). Ref: 3811.

**6451 Dioslupecin A**

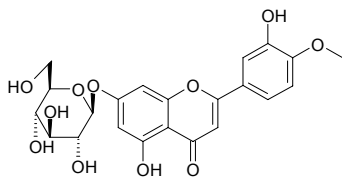
$C_{39}H_{56}O_3$ (572.88). Source: HAI SHI *Diospyros maritima*, XIAO HUA MU LAN GUO *Bruguiera parviflora*. Ref: 1521, 2532.

**6452 Diosmetin**

5,7,3'-Trihydroxy-4'-methoxyflavone [520-34-3] $C_{16}H_{12}O_6$ (300.27). mp 253–255°C. Pharm: Protects against shock. Source: BAI CI HUA *Sophora viciifolia*, MENG GU SHAN LUO BO *Scabiosa comosa*, RONG MAO DAN SHEN *Salvia tomentosa*, YAO YONG PU GONG YING *Taraxacum officinale*. Ref: 6, 561, 602, 658, 660.

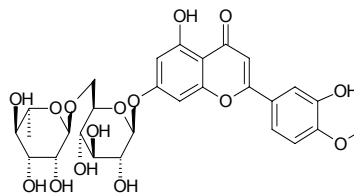
**6453 Diosmetin 7-O-β-D-glucopyranoside**

$C_{22}H_{22}O_{11}$ (462.41). Pharm: Aldose reductase inhibitor (rat lens, IC_{50} = 23 μmol/L, control Epalrestat, IC_{50} = 0.072 μmol/L)^[4214]. Source: YE JU HUA *Chrysanthemum indicum* (flower: yield = 0.086%). Ref: 4214.

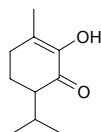
**6454 Diosmin**

[520-27-4] $C_{28}H_{32}O_{15}$ (608.56). mp 278–280°C. Pharm: Anti-inflammatory (rat, ip, swollen foot model caused by carrageenan, ED_{50} = 100mg/kg); similar action with vitamin C₂ (gpg, enhances blood capillary resistance and reduces loss of ascorbic acid in adrenal); similar action with vitamin P (rbt, reduces blood capillary permeability); LD_{50} (mus, orl) = 10g/kg, (mus, ip) = 4g/kg. Source: BA XIAN CAO *Galium aparine*, BAI CI HUA *Sophora viciifolia*, BAI CI HUA YE *Sophora viciifolia*, FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], FO SHOU *Citrus medica* var. *sarcodactylis*, GAO JIA SUO LAN PEN HUA *Scabiosa caucasica*, JI CAI *Capsella bursa-pastoris*, JI CAI ZI *Capsella bursa-pastoris*,

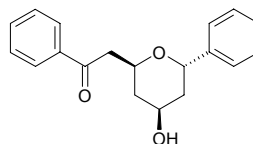
LIN SHENG XUAN SHEN *Scrophularia nodosa*, MI DIE XIANG *Rosmarinus officinalis*, NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, QIAN MA *Urtica cannabina*, RU DI JIN NIU *Zanthoxylum nitidum*, YING BU BO *Zanthoxylum avicennae*. Ref: 6, 658, 660, 5501.

**6455 Diosphenol**

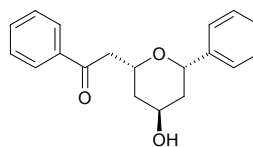
[490-03-9] $C_{10}H_{16}O_2$ (168.24). Pharm: Diuretic. Source: MI HUA XIANG MAO *Cymbopogon densiflorus*, YU XIANG CAO *Mentha rotundifolia*. Ref: 658.

**6456 Diospongina A**

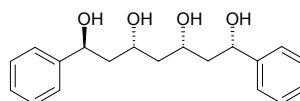
$C_{19}H_{20}O_3$ (296.37). Colorless amorphous solid, $[\alpha]_D^{25}$ = -21.2° (c = 0.8, CHCl₃). Pharm: Bone resorption inhibitor (bones were cultured with PTH 200 μmol/L, ⁴⁵Ca release = (44.6±3.3)%, control ⁴⁵Ca release = (15.4±1.3)%). Source: HAI JIN BI XIE *Dioscorea spongiosa* (rhizome). Ref: 4921.

**6457 Diospongina B**

$C_{19}H_{20}O_3$ (296.37). Colorless amorphous solid, $[\alpha]_D^{25}$ = -23.4° (c = 0.6, CHCl₃). Pharm: Bone resorption inhibitor (bones were cultured with PTH 200 μmol/L, ⁴⁵Ca release = (30.5±0.4)%, contro ⁴⁵Ca release = (15.4±1.3)%). Source: HAI JIN BI XIE *Dioscorea spongiosa* (rhizome). Ref: 4921.

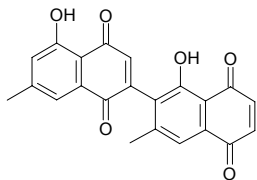
**6458 Diospongina C**

$C_{19}H_{24}O_4$ (316.40). Light yellow oil, $[\alpha]_D^{25}$ = -45.5° (c = 0.5, CHCl₃). Pharm: Bone resorption inhibitor (bones were cultured with PTH 200 μmol/L, ⁴⁵Ca release = (19.1±1.6)%, p < 0.01, control ⁴⁵Ca release = (15.4±1.3)%). Source: HAI JIN BI XIE *Dioscorea spongiosa* (rhizome). Ref: 4921.

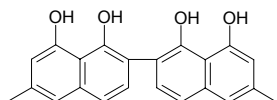


6459 Diospyrin

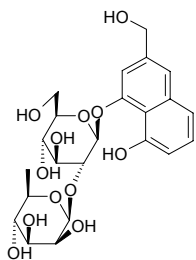
[28164-57-0] C₂₂H₁₄O₆ (374.35). **Pharm:** Cytotoxic (EAC, high dose); immunoenhancer (low dose). **Source:** *Diospyros* sp. **Ref:** 658.

**6460 Diospyrol**

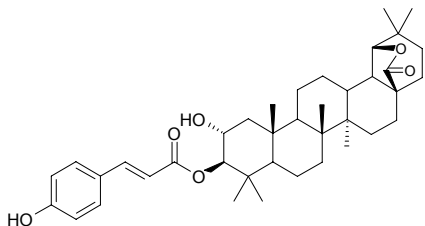
C₂₂H₁₈O₄ (346.39). Acicular crystals (methanol), mp 251~257°C (dec). **Pharm:** Anthelmintic (hookworm, dwarf tapeworm). **Source:** RUAN SHI *Diospyros mollis* (the compound was isolated from the plant by K. Yoshihira, et al. in 1969)^[5505]. **Ref:** 661, 5505.

**6461 Diospyrosonaphthoside**

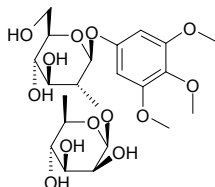
4[α -L-Rhamnosyl(1 \rightarrow 2)- β -D-glucopyranosyloxy]-2-hydroxymethylene,5-hydroxy naphthalene C₂₃H₃₀O₁₂ (498.49). White amorphous powder, $[\alpha]_D^{27} = -119.0^\circ$ ($c = 0.17$, MeOH). **Source:** *Diospyros angustifolia* (stem cortex). **Ref:** 3835.

**6462 Diospyrosoleanolide**

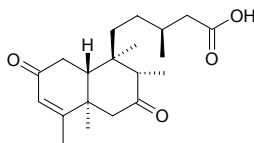
2 α -Hydroxy-3 β -trans-p-coumaroyl-28,19 β -oleanolide C₃₉H₅₄O₆ (618.86). White amorphous powder, $[\alpha]_D^{29} = -16.6^\circ$ ($c = 0.102$, C₅H₅N). **Source:** *Diospyros angustifolia* (stem cortex). **Ref:** 3835.

**6463 Diospyrososide**

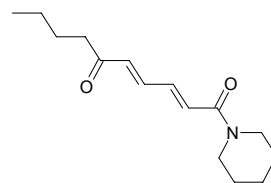
1[α -L-Rhamnosyl(1 \rightarrow 2)-(β -D-glucopyranosyloxy)]-3,4,5-trimethoxy benzene C₂₁H₃₂O₁₃ (492.48). White amorphous powder, $[\alpha]_D^{27} = -80.0^\circ$ ($c = 0.12$, MeOH). **Source:** *Diospyros angustifolia* (stem cortex). **Ref:** 3835.

**6464 ent-2,7-Dioxo-3-cleroden-15-oic acid**

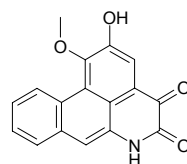
C₂₀H₃₀O₄ (334.46). Colorless oil, $[\alpha]_D^{20} = -10^\circ$ ($c = 0.215$, CHCl₃). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, IC₅₀ = (8.0 \pm 0.2) μ g/mL, control Chloroquine, IC₅₀ = (0.05 \pm 0.002) μ g/mL). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**6465 1-(1,6-Dioxo-2E,4E-decadienyl)piperidine**

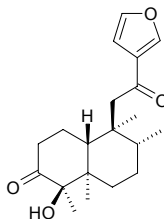
C₁₅H₂₃NO₂ (249.36). Colorless oil. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00031%dw). **Ref:** 4753.

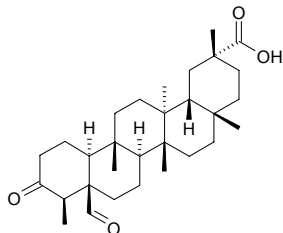
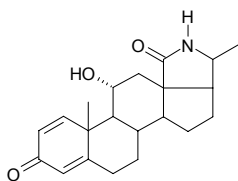
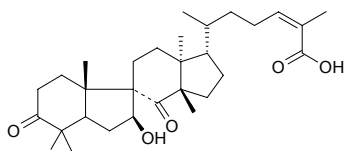
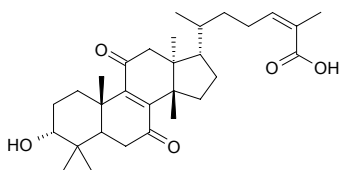
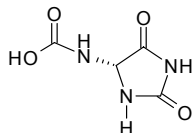
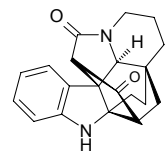
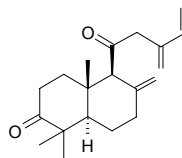
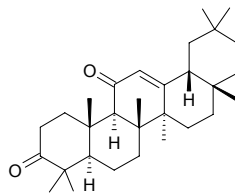
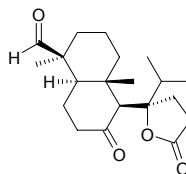
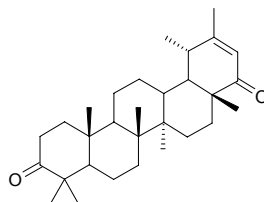
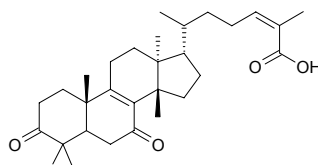
**6466 4,5-Dioxodehydroasimilobine**

2-Hydroxy-1-methoxy-4H-dibenzo[de,g]quinoline-4,5-(6H)-dione C₁₇H₁₁NO₄ (293.28). **Pharm:** Platelet aggregation inhibitor (rbt platelets induced by thrombin, 50 μ g/mL, add thrombin 0.1u/mL, AggRt = (86.6 \pm 1.6)%, control AggRt = (92.6 \pm 0.4)%; add AA, 100 μ mol/L, 50 μ g/mL, AggRt = (0.0 \pm 0.0)%, 2 μ g/mL, control AggRt = (80.7 \pm 1.7)%, Aspirin 50 μ g/mL, AggRt = (11.7 \pm 10.1)%; add collagen 10 μ g/mL, 50 μ g/mL, AggRt = (25.4 \pm 0.9)%, 2 μ g/mL, AggRt = (81.5 \pm 0.0)%, control AggRt = (89.3 \pm 0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3 \pm 0.5)%; add PAF 2ng/mL, 50 μ g/mL, AggRt = (87.2 \pm 0.0)%, control AggRt = (93.0 \pm 0.6)%^[4938]. **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00037%dw), TAI WAN HU JIAO *Piper taiwanense* (stem). **Ref:** 3026, 4938.

**6467 3,12-Dioxo-15,16-epoxy-4-hydroxy-cleroda-13(16),14-diene**

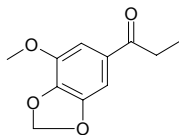
C₂₀H₂₈O₄ (332.44). **Source:** *Croton hovarum*. **Ref:** 4552.



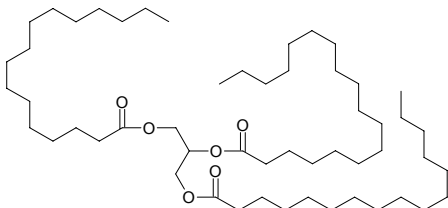
6468 3,24-Dioxo-friedelan-29-oic acid[105249-56-7] C₃₀H₄₆O₄ (470.70). Colorless acicular crystals, mp 294°C.Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 60.**6469 3,18-Dioxo-11 α -hydroxycona-1,4-diene**C₂₁H₂₇NO₃ (341.45). Orange rods (MeOH), mp 130–132°C. Source: DUANROU MAO ZHI XIE MU *Holarrhena pubescens* (bark). Ref: 5231.**6470 3,8-Dioxo-7 β -hydroxy-7,9-cyclo-7,8-seco-24Z-tirucalladien-26-oic acid**C₃₀H₄₆O₅ (486.70). Colorless powder, mp 95–98°C, [α]_D = +255.1° (*c* = 1.0,MeOH). Source: *Juliania adstringens* (bark). Ref: 3786.**6471 7,11-Dioxo-3 α -hydroxy-8,24Z-tirucalladien-26-oic acid**C₃₀H₄₄O₅ (484.68). Yellow powder, mp 94–95°C, [α]_D = –85.7° (*c* = 1.0,MeOH). Source: *Juliania adstringens* (bark). Ref: 3786.**6472 (2,5-Dioxo-4-imidazolidinyl)carbamic acid**C₄H₅O₄N₃ (159.10). Colorless block crystals, mp 244–246°C. Source: ROUCONG RONG *Cistanche deserticola*. Ref: 825.**6473 10,22-Dioxokopsan**C₂₀H₂₀N₂O₂ (320.39). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf).Ref: 3830.**6474 3,11-Dioxo-labda-8(17),13(16),14-triene**C₂₀H₂₈O₂ (300.44). [α]_D²⁰ = +12.1° (*c* = 2.5, CHCl₃). Source: YUAN YE TAI*Jamesoniella colorata*. Ref: 3375.**6475 3,11-Dioxo-olean-12-ene**C₃₀H₄₆O₂ (438.70). White lamellar crystals (acetone), easily soluble in CHCl₃and MeOH, mp 232–235°C. Source: SI CHUAN QING FENG TENG *Sabia**schumanniana* (aerial parts). Ref: 4883.**6476 8,19-Dioxo-8,14-seco-chinan-14,11-olide**C₂₀H₃₀O₄ (334.46). Colorless solid, mp 163–164°C, [α]_D²⁷ = –101.5° (*c* = 0.47,CHCl₃). Source: LONG BAI *Juniperus chinensis* var. *kaizuka* (leaf: yield =0.00012%dw). Ref: 3050.**6477 3,22-Dioxo-20-taraxastene**C₃₀H₄₆O₂ (438.70). Colorless solid, mp 245–248°C, [α]_D²⁴ = +63.9° (*c* = 0.2,CHCl₃). Pharm: Cytotoxic inactive (HONE-1 cell, IC₅₀ > 10 μmol/L; KB cell,IC₅₀ > 10 μmol/L; HT29 cell, IC₅₀ > 10 μmol/L). Source: RONG SHU *Ficus**microcarpa* (aerial root). Ref: 5254.**6478 3,7-Dioxo-8,24Z-tirucalladien-26-oic acid**C₃₀H₄₄O₄ (468.68). Colorless powder, mp 91–93°C, [α]_D = –27.7° (*c* = 1.0,MeOH). Pharm: Cytotoxic (leukemia cells L₁₂₁₀, IC₅₀ = 30 μg/mL). Source:*Juliania adstringens* (bark). Ref: 3786.

6479 3,4-Dioxymethylene-5-methoxy-1-(1-oxopropyl)benzene

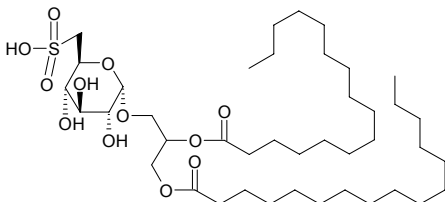
3,4-Methylenedioxy-5-methoxy-1-(1-oxopropyl)benzene C₁₁H₁₂O₄ (208.22). mp 87–88°C, 91–92°C. Source: SHA QIAN HU *Ferula borealis*. Ref: 6.

**6480 (2S)-1,3-Di-(O-palmitoyl)-2-O-octadecanoyl glycerol**

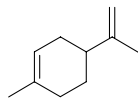
C₅₃H₁₀₂O₆ (835.40). Source: XI NANG MA WEI ZAO *Sargassum parvivesiculosum*. Ref: 2591.

**6481 (2S)-1,2-Di-O-palmitoyl-3-O-(6-sulpho-α-D-quinovopyranosyl) glycerol**

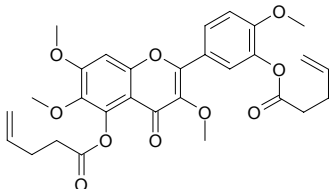
C₄₁H₇₈O₁₂S (795.14). White powder. Source: XI NANG MA WEI ZAO *Sargassum parvivesiculosum*. Ref: 2591.

**6482 Dipentene**

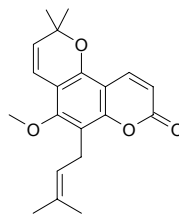
1,8-*p*-Menthadiene [138-86-3] C₁₀H₁₆ (136.24). bp 178°C. Pharm: Antitussive (dispels phlegm); sedative; sensitizer; irritant. Source: DA YE XIANG RU *Mosla dianthera*, FENG XIANG SHU *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], GANG SONG *Baeckea frutescens*, HAI SONG ZI *Pinus koraiensis*, HU SUI ZI *Coriandrum sativum*, HUI XIANG *Foeniculum vulgare*, KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LU DOU LE HUA *Pandanus tectorius*, MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*], RU XIANG *Boswellia carterii*, YA ER QIN *Cryptotaenia japonica*. Ref: 6, 660.

**6483 5,3'-Dipent-4-enoyloxy-3,6,7,4'-tetramethoxyflavone**

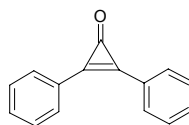
C₂₉H₃₀O₁₀ (538.56). mp 155–157°C. Pharm: Cytotoxic (*in vitro*, Col2, ED₅₀ = 15 μg/mL; hTERT-RPE1, ED₅₀ = 0.6 μg/mL; HUVEC, ED₅₀ = 5.5 μg/mL; KB, ED₅₀ = 0.6 μg/mL; HUVEC, ED₅₀ = 0.7 μg/mL; Lu1, ED₅₀ = 1.4 μg/mL). Source: HUANG JING YE *Vitex negundo*. Ref: 4699.

**6484 Dipetaline**

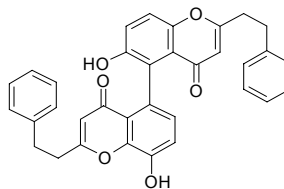
[59701-36-9] C₂₀H₂₂O₄ (326.40). Pharm: Cytotoxic (inhibits DNA biosynthesis by blocking thymidine to go into HL-60 cells). Source: MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*]. Ref: 2176.

**6485 2,3-Diphenyl-2-cyclopropen-1-one**

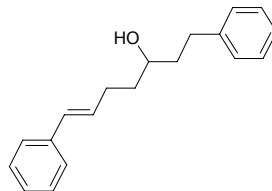
[886-38-4] C₁₅H₁₀O (206.25). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**6486 2,2'-Di-(2-phenylethyl)-8,6'-dihydroxy-5,5'-bichromone (AH11)**

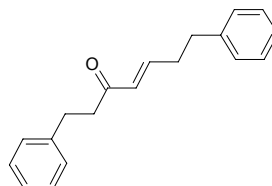
C₃₄H₂₆O₆ (530.58). Light dark-yellow powder, mp 239–242°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**6487 trans-1,7-Diphenyl-1-hepten-5-ol**

trans-1,7-Diphenyl-5-hydroxy-1-heptene [87095-76-9] C₁₉H₂₂O (266.38). White rhombic crystals (hexane–acetone), mp 47–49°C, [α]_D²⁰ = +7° (*c* = 1.2, chloroform). Pharm: Anti-inflammatory (swollen foot model caused by carrageenan); nematocide (EC₉₅ = 0.7 μg/mL). Source: CAO DOU KOU *Alpinia katsumadai*. Ref: 978, 1069, 1151, 1152.

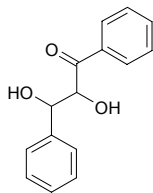
**6488 1,7-Diphenylhept-4-en-3-one**

C₁₉H₂₀O (264.37). Colorless or yellow oleaginous liquid. Pharm: 5α-Reductase inhibitor (rat prostate 5α-Reductase, IC₅₀ = (390±30) μmol/L, control Curcumin, IC₅₀ > 1000 μmol/L, Finasteride, IC₅₀ = 0.01 μmol/L)^[5345]. Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 435, 5345.

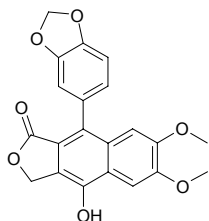


6489 1,3-Diphenylpropane-1,2-diol-3-one

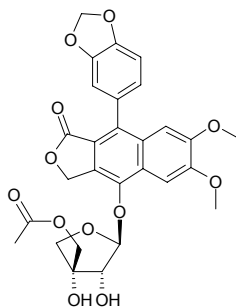
$C_{15}H_{14}O_3$ (242.28). **Source:** LUO HUA SHENG *Arachis hypogaea*. **Ref:** 6.

**6490 Diphyllin**

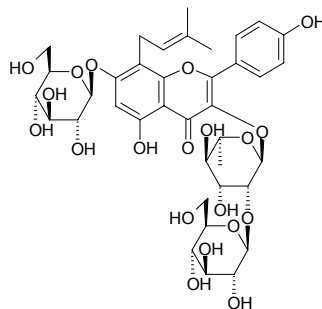
[22055-22-7] $C_{21}H_{16}O_7$ (380.36). mp 291°C. **Pharm:** Antineoplastic; cytotoxic (hmn LoVo Cell Line, *in Vitro*, $IC_{50} = (7.55 \pm 0.75) \mu\text{L/mL}$)^[4206]; cytotoxic (*in vitro*, 212, $ED_{50} = 2.7 \mu\text{g/mL}$, control *cis*-Platin, $ED_{50} = 1.3 \mu\text{g/mL}$; CaSki, no significant activity, control Actinomycin D, $ED_{50} = 0.0019 \mu\text{g/mL}$; Hep3B, $ED_{50} = 3.6 \mu\text{g/mL}$, control 5-FU, $ED_{50} = 0.0715 \mu\text{g/mL}$; SiHa, no significant activity, control Actinomycin D, $ED_{50} = 0.00081 \mu\text{g/mL}$; HepG2, $ED_{50} = 0.4 \mu\text{g/mL}$, control 5-FU, $ED_{50} = 0.033 \mu\text{g/mL}$; HT29, $ED_{50} = 2.5 \mu\text{g/mL}$, control 5-FU, $ED_{50} = 0.074 \mu\text{g/mL}$; HCT116, $ED_{50} = 0.8 \mu\text{g/mL}$, control 5-FU, $ED_{50} = 0.48 \mu\text{g/mL}$; MCF7, no significant activity; MCF7-ras, no significant activity)^[4612]; piscicide. **Source:** JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.00024%dw)^[4612], SHAN HE YE *Diphylleia grayi* (rhizome: content = 0.064%)^[5508], WO ER QI *Diphylleia sinensis* (rhizome: content scope = 0.1%–0.5%, mean content of 8 origins = 0.388%)^[5508], *Haplophyllum patavinum* (shoot). **Ref:** 6, 279, 658, 4206, 4612, 5508.

**6491 Diphyllin acetylapioside**

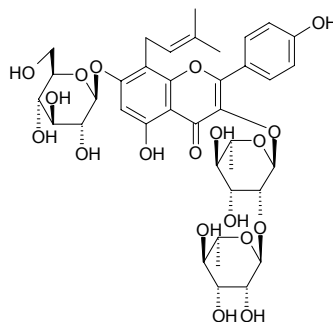
$C_{28}H_{26}O_{12}$ (554.51). **Pharm:** Anti-inflammatory (5-lipoxygenase inhibitor)^[4415]. **Source:** XI BAN YA YUN XIANG CAO *Haplophyllum hispanicum*. **Ref:** 4415.

**6492 Diphyllside A**

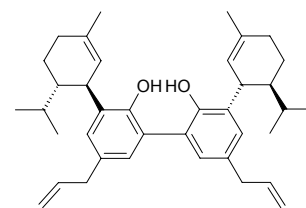
Ikarisoside C [113558-11-5] $C_{38}H_{48}O_{20}$ (824.79). Yellow powder, mp 204–206°C. **Source:** CHUAN E YIN YANG HUO *Epimedium fargesii*, CU MAO YIN YANG HUO *Epimedium acuminatum*, WAN SHAN YIN YANG HUO *Epimedium wanshanense*, YIN YANG HUO *Epimedium brevicornum*. **Ref:** 465, 565, 567, 624.

**6493 Diphyllside B**

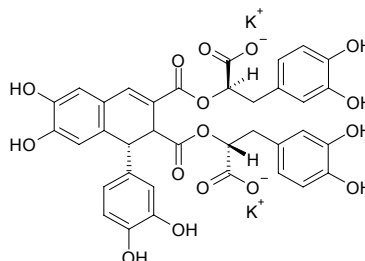
[118544-18-6] $C_{38}H_{48}O_{19}$ (808.79). Yellow powder, mp 187–189°C. **Source:** WAN SHAN YIN YANG HUO *Epimedium wanshanense*, CU MAO YIN YANG HUO *Epimedium acuminatum*. **Ref:** 465, 624.

**6494 Dipiperitylmagnolol**

$C_{38}H_{50}O_2$ (538.82). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.

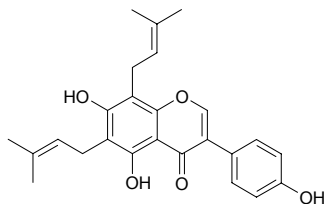
**6495 Dipotassium radosiin**

$C_{36}H_{28}K_2O_{16}$ (794.81). Tan amorphous powder, $[\alpha]_D^{22} = -113.4^\circ$ ($c = 0.91$, H_2O). **Pharm:** Contraceptive. **Source:** XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2187.

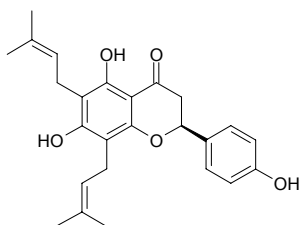


6496 6,8-Diprenylgenistein

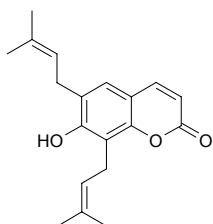
5,7,4'-Trihydroxy-6,8-diprenylisoflavone C₂₅H₂₆O₅ (406.48). Yellow amorphous. **Pharm:** Antifungal (dermatophyte *Trichophyton mentagrophytes*, 250µg/mL)^[2347]. **Source:** KU TAN ZI *Millettia pachycarpa*, SAN XIAU YE SHAN DOU GEN *Euchresta japonica*, PAN YUAN YU TENG *Derris scandens*, *Erythrina vogelii*. **Ref:** 1521, 2347, 4421.

**6497 6,8-Diprenylnaringenin**

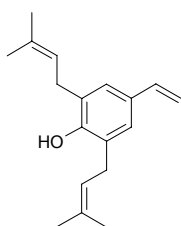
Lonchocarpol A C₂₅H₂₈O₅ (408.50). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor, IC₅₀ = 3.9µg/mL)^[5038], cytotoxic (mouse mammary organ culture assay, 86% at 10µg/mL)^[5038]. **Source:** PI JIU HUA *Humulus lupulus* (strobile), ZHEN YE XUE TONG *Macaranga confera*. **Ref:** 4789, 5038.

**6498 6,8-Diprenylumbelliferone**

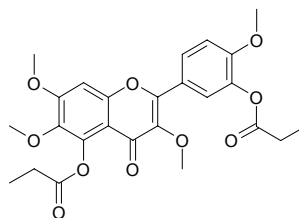
C₁₉H₂₂O₃ (298.39). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500(mol ratio/32pmol TPA): EBV-EA-positive cells = (23.7±1.3)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability = 60%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC₅₀ = 216(mol ratio/32pmol TPA), β-Carotene, IC₅₀ = 400(mol ratio/32pmol TPA), Curcumin, IC₅₀ = 341(mol ratio/32pmol TPA)). **Source:** CHENG ZI *Citrus junos*. **Ref:** 5048.

**6499 2,6-Diprenyl-4-vinylphenol**

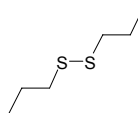
C₁₈H₂₄O (256.39). Amorphous powder. **Source:** FENG JIAO *Apis mellifera ligustica*. **Ref:** 4124.

**6500 5,3'-Dipropanoyloxy-3,6,7,4'-tetramethoxyflavone**

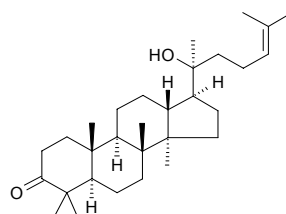
C₂₅H₂₆O₁₀ (486.48). mp 131~132°C. **Pharm:** Cytotoxic (*in vitro*, Col2, ED₅₀ > 20µg/mL; hTERT-RPE1, ED₅₀ = 0.5µg/mL; HUVEC, ED₅₀ = 6.5µg/mL; KB, ED₅₀ = 0.6µg/mL; HUVEC, ED₅₀ = 0.4µg/mL; Lu1, ED₅₀ = 1.0µg/mL). **Source:** HUANG JING YE *Vitex negundo*. **Ref:** 4699.

**6501 Dipropyl disulfide**

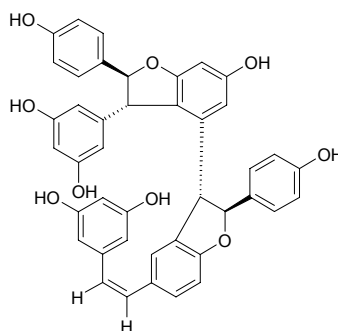
4,5-Dithiaoctane [629-19-6] C₆H₁₄S₂ (150.31). Colorless volatile oil with a strong odour of garlic. **Pharm:** Antifungal (plant pathogenic fungi *Cladosporium sphaerospermum*, MIC = 0.1µg, control Nystatin, MIC = 1.0µg; *Cladosporium cladosporioides*, MIC = 1.0µg, control Nystatin, MIC = 1.0µg)^[5159]; antineoplastic (mechanism-based yeast bioassay for DNA-modifying agents, mutant yeast *Saccharomyces cerevisiae*: RS 188N (rad+), IC₁₂ = 389µg/mL; RS 321, IC₁₂ = 68µg/mL; RS 52YK (rad 52Y), IC₁₂ = 11µg/mL, control Camptothecin, RS 52YK(rad 52Y), IC₁₂ = 0.6µg/mL)^[5159]; flavorant. **Source:** SUAN CHOU MU JI CAO *Petiveria alliacea* (root, stem and leaf), DA SUAN *Allium sativum*, *Allium* sp. **Ref:** 2, 658, 5159.

**6502 Dipterocarpol**

[471-69-2] C₃₀H₅₀O₂ (442.73). **Pharm:** Induces growth of radial root nodule commensal "Frankia". **Source:** RU DU XIANG *Pistacia terebinthus*, BING PIAN *Dryobalanops aromatica*. **Ref:** 2, 658.

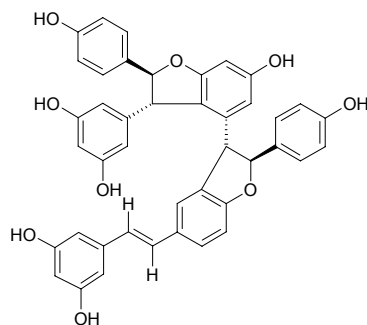
**6503 cis-Diptoindonesin B**

C₄₂H₃₂O₉ (680.72). White amorphous powder, [α]_D²⁰ = -99° (c = 0.1, MeOH). **Source:** JU YUAN YE LONG NAO XIANG *Dryobalanops oblongifolia*. **Ref:** 3422.

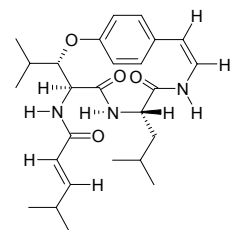


6504 trans-Diptoindonesin B

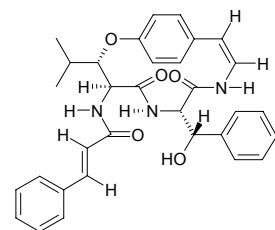
$C_{42}H_{32}O_9$ (680.72). White amorphous powder, $[\alpha]_D^{20} = -192^\circ$ ($c = 0.1$, MeOH). Source: JU YUAN YE LONG NAO XIANG *Dryobalanops oblongifolia*. Ref: 3422.

**6505 Discarine M**

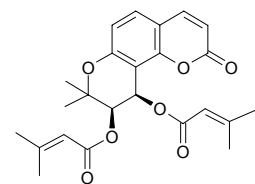
$C_{26}H_{37}N_3O_5$ (455.60). White amorphous powder, $[\alpha]_D^{20} = -176.7^\circ$ ($c = 0.2$, MeOH:CHCl₃ = 1:1). Source: *Discaria americana* (bark). Ref: 3793.

**6506 Discarine N**

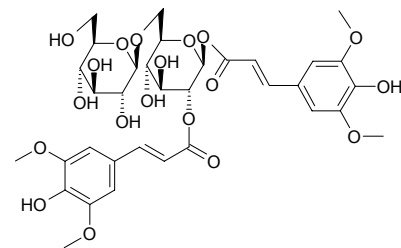
$C_{32}H_{33}N_3O_5$ (539.64). White powder, mp 233~235°C, $[\alpha]_D^{20} = +98.1^\circ$ ($c = 0.092$, MeOH:CHCl₃ = 1:1). Source: *Discaria americana* (bark). Ref: 3793.

**6507 Disenecionyl cis-khellactone**

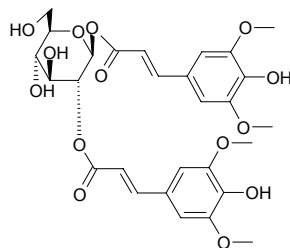
$C_{24}H_{26}O_7$ (426.47). Pharm: Antispasmodic; coronary vasodilator. Source: HUI BAI XIE HAO *Seseli incanum*, LI BA NEN XIE HAO *Seseli libanotis*. Ref: 658.

**6508 1,2-Di-O-E-sinapoyl-β-gentiobiose**

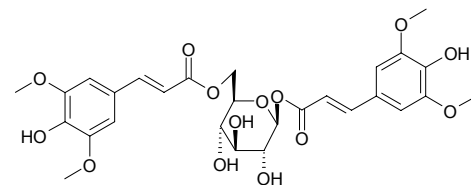
$C_{34}H_{42}O_{19}$ (754.70). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**6509 1,2-Di-O-E-sinapoyl-β-glucopyranose**

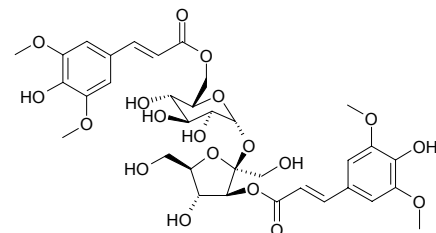
$C_{28}H_{32}O_{14}$ (592.56). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**6510 1,6-Di-O-sinapoylglucose**

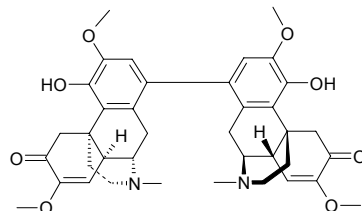
1,6-Di-O-E-sinapoyl-β-glucopyranose $C_{28}H_{32}O_{14}$ (592.56). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**6511 3',6'-Disinapoylsucrose**

$C_{34}H_{42}O_{19}$ (754.7). Yellow prisms, mp 133~135° (MeOH). Source: CHOU CAO *Ruta graveolens* (dried aerial parts). Ref: 3073.

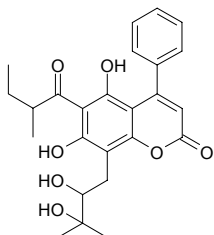
**6512 Disinomenine**

[596-58-7] $C_{38}H_{44}N_2O_8$ (656.78). mp 222°C. Source: BIAN FU GE *Menispermum dauricum*, QING FENG TENG *Sinomenium acutum*. Ref: 6.

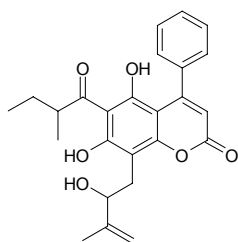


6513 Dispardiol B

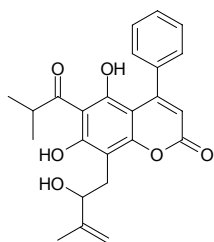
5,7-Dihydroxy-8-(2,3-dihydroxy-3-methylbutyl)-6-(2-methyl-1-oxobutyl)-4-phenyl-2*H*-[1]benzopyran-2-one C₂₅H₂₈O₇ (440.50). [α]_D²⁵ = 0° (*c* = 0.08, CHCl₃). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**6514 Disparinol B**

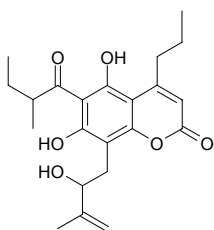
C₂₅H₂₆O₆ (422.48). **Pharm:** Cytotoxic (KB, EC₅₀ = 7 μg/mL). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**6515 Disparinol D**

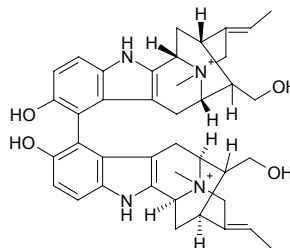
5,7-Dihydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-6-(2-methyl-1-oxopropyl)-4-phenyl-2*H*-[1]benzopyran-2-one C₂₄H₂₄O₆ (408.46). [α]_D²⁵ = 0° (*c* = 0.16, CHCl₃). **Pharm:** Cytotoxic (KB, EC₅₀ = 21 μg/mL). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**6516 Disparpropylinol B**

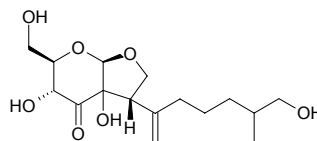
5,7-Dihydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-6-(2-methyl-1-oxobutyl)-4-propyl-2*H*-[1]benzopyran-2-one C₂₂H₂₈O₆ (388.46). Yellow crystals, mp 111~112°C (*n*-hexane:EtOAc = 9:1), [α]_D²⁵ = 0° (*c* = 0.6, CHCl₃). **Pharm:** Cytotoxic (KB, EC₅₀ = 4 μg/mL). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**6517 Dispegatine**

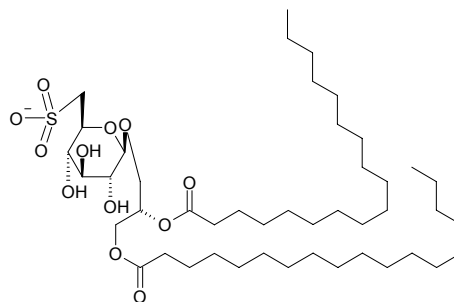
[102488-56-2] C₄₀H₄₈N₄O₄²⁺ (648.85). Colorless square crystals, mp > 280°C (dec), [α]_D²³ = +230° (*c* = 0.1, methanol). **Pharm:** Adrenergic α -receptor blocker. **Source:** HAI NAN LUO FU MU *Rauvolfia verticillata* var. *hainanensis*. **Ref:** 46.

**6518 Dissectol A**

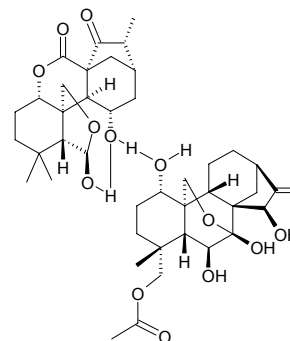
C₁₆H₂₆O₇ (330.38). Syrup, [α]_D²⁶ = +125.0° (*c* = 2.0, MeOH). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, showed modest activity when compared to rifampicin in an agar diffusion assay). **Source:** SHEN LIE YE JIAO HAO *Incarvillea dissectifoliola*. **Ref:** 5403.

**6519 (2*S*)-1,2-Distearoyl-3-*O*-(6-sulpho- α -*D*-quinovopyranosyl)-glycerol**

C₄₅H₈₅O₁₂S⁻ (850.24). **Source:** KA SHI QIAN GOU ZAO *Amphidinium carterae*. **Ref:** 4448.

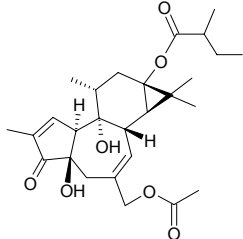
**6520 Diterp-Complex-RA**

C₄₂H₆₀O₁₃ (772.94). mp 213~215°C, [α]_D = -46.5° (*c* = 0.16, MeOH). **Source:** XIA YE XIANG CHA CAI *Isodon angustifolia*. **Ref:** 4067.

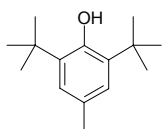


6521 Diterpenoid EF-D

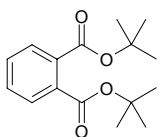
$C_{27}H_{38}O_7$ (474.60). **Pharm:** Irritant (to skin). **Source:** NONG DA JI *Euphorbia fortissima*. **Ref:** 658.

**6522 2,6-Ditertbutyl-4-methyl phenol**

[128-37-0] $C_{15}H_{24}O$ (220.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium*. **Ref:** 2.

**6523 Ditertbutyl phthalate**

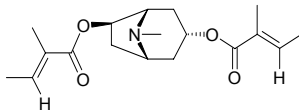
$C_{16}H_{22}O_4$ (278.35). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

**6524 Dithiocyclopentene**

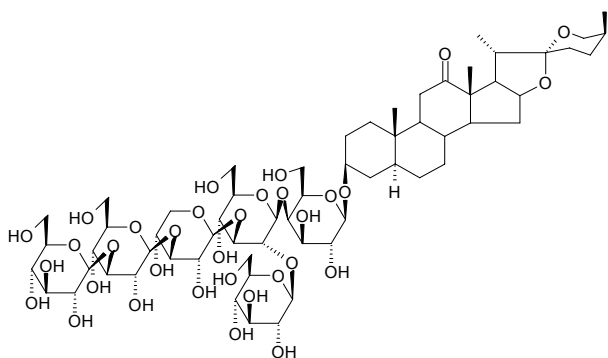
$C_3H_4S_2$ (104.19). **Source:** DA SUAN *Allium sativum*. **Ref:** 2.

**6525 L-3α,6β-Ditigloyloxytropane**

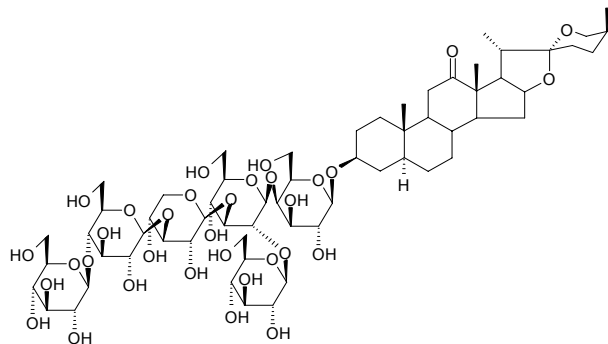
[23517-33-1] $C_{18}H_{27}NO_4$ (321.42). **Source:** MAO MAN TUO LUO GEN *Datura innoxia*. **Ref:** 6, 660.

**6526 Diuranthoside F**

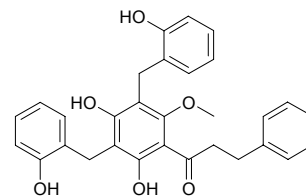
$C_{62}H_{100}O_{33}$ (1373.47). White powder. **Source:** NAN CHUAN LU SI CAO *Diuranthera inarticulata*. **Ref:** 2122.

**6527 Diuranthoside G**

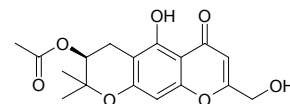
$C_{62}H_{100}O_{33}$ (1373.47). White powder. **Source:** NAN CHUAN LU SI CAO *Diuranthera inarticulata*. **Ref:** 2122.

**6528 Diuaretin**

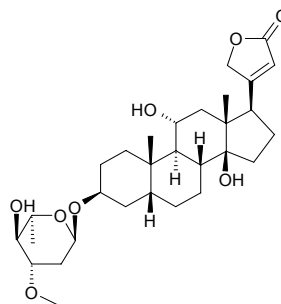
$C_{30}H_{28}O_6$ (484.55). Colorless crystals, mp 127~131°C (CHCl₃). **Pharm:** Cytotoxic (hmn promyelocytic leukemia HL-60 cells, IC₅₀ = 6.1 μmol/L). **Source:** JIAN ZI YU PAN *Uvaria acuminata* (root). **Ref:** 4261.

**6529 Divaricatol**

$C_{17}H_{18}O_7$ (334.33). White crystalline powder, mp 168~171°C, $[\alpha]_{589nm} = -30^\circ$. **Pharm:** Analgesic (mus writhing method, orl, 1 mg/kg). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebourriella seseloides*]. **Ref:** 3508.

**6530 Divaricoside**

Sarmentogenin 3-O-α-oleandroside $C_{30}H_{46}O_8$ (534.70). mp 220~223°C. **Pharm:** Cardiotonic (one of main components in divasides). **Source:** YANG JIAO AO ZI *Strophanthus divaricatus*. **Ref:** 4, 6, 658.

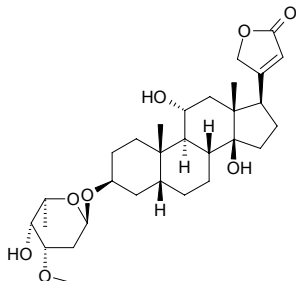
**6531 Divinyl sulfide**

Vinyl sulfide [627-51-0] C_4H_6S (86.16). **Source:** DA SUAN *Allium sativum*. **Ref:** 2.

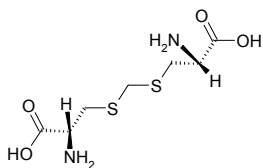


6532 Divostroside

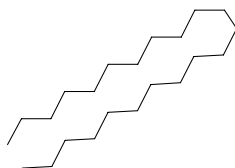
Sarmentogenin 3-*O*- α -*L*-diginoside C₃₀H₄₆O₈ (534.70). mp 225~231°C.
Pharm: Toxin (vertebrate). **Source:** YANG JIAO AO ZI *Strophanthus divaricatus*. **Ref:** 6, 658.

**6533 L-Djenkolic acid**

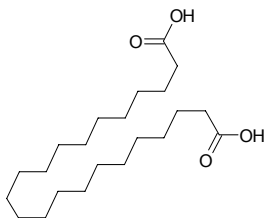
C₇H₁₄N₂O₄S₂ (254.33). **Pharm:** Toxin. **Source:** YU ZHUANG HE HUAN *Albizia lophantha*, *Mimosa* sp., *Acacia* sp. **Ref:** 658.

**6534 Docosane**

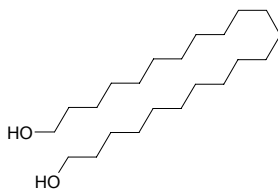
[629-97-0] C₂₂H₄₆ (310.61). **Source:** DANG SHEN *Codonopsis pilosula*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

**6535 Docosanedioic acid**

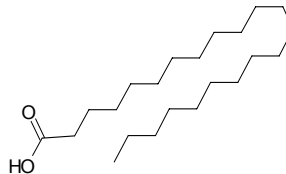
[505-56-6] C₂₂H₄₂O₄ (370.58). mp 124.2~124.4°C. **Source:** LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], QI ZI *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*]. **Ref:** 6.

**6536 1,22-Docosanediol**

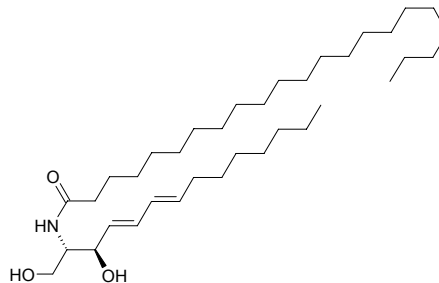
[22513-81-1] C₂₂H₄₆O₂ (342.61). **Source:** MU JIN PI *Hibiscus syriacus*. **Ref:** 519.

**6537 Docosanoic acid**

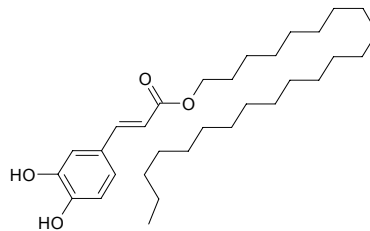
[112-85-6] C₂₂H₄₄O₂ (340.59). **Source:** BU GU ZHI *Psoralea corylifolia*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUANG JING QIAN CAO *Rubia wallichiana* (stem), QIANG HUO *Notopterygium incisum*, WU SE MEI *Lantana camara* (aerial parts). **Ref:** 2, 4309, 4369.

**6538 (4E,6E,2S,3R)-2-N-Docosanoyl-4,6-tetradecasphingadienine**

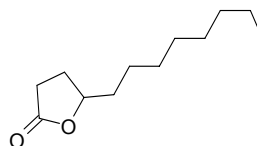
C₃₆H₆₉NO₃ (563.96). White powder; mp 71.8°C, [α]_D²⁰ = -3.6° (c = 0.176, CHCl₃). **Pharm:** Neurotrophic (neurite outgrowth promoter, measuring neurite length of PC12 cell, 10 μ mol/L, activity greater than that of 50ng/mL NGF). **Source:** BAI JIANG CAN *Bombyx mori*. **Ref:** 4684.

**6539 Docosyl caffeate**

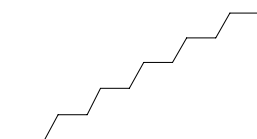
C₃₁H₅₂O₄ (488.76). mp 115°C. **Source:** SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], ZI CAO *Lithospermum erythrorhizon*. **Ref:** 6, 408, 2193.

**6540 γ -Dodecalactone**

[2305-05-7] C₁₂H₂₂O₂ (198.31). **Source:** XING REN *Prunus armeniaca*. **Ref:** 2.

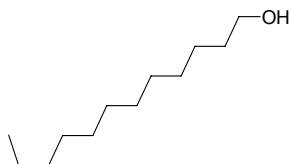
**6541 Dodecane**

[112-40-3] C₁₂H₂₆ (170.34). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*, LANG DU *Stellera chamaejasme*. **Ref:** 2, 660.

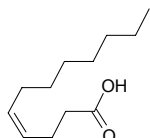


6542 Dodecanol

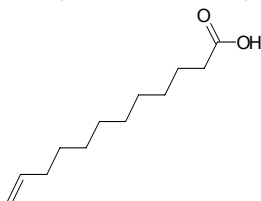
[112-53-8] C₁₂H₂₆O (186.34). Source: DANG GUI *Angelica sinensis*. Ref: 2.

**6543 cis-4-Dodecenoic acid**

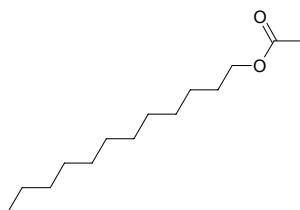
Linderic acid [2430-94-6] C₁₂H₂₂O₂ (198.31). mp 1.0~1.3°C, bp 170~172°C/13mmHg. Source: ZHEN CAI *Litsea pungens*. Ref: 6.

**6544 Dodecenoic acid**

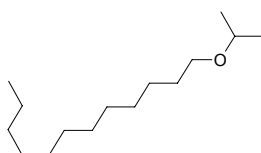
C₁₂H₂₂O₂ (198.31). bp 165~168°C/8mmHg. Source: BING LANG *Areca catechu*, FU LING *Poria cocos*, YANG RU *Capra hircus*; *Ovis aries*. Ref: 2, 6.

**6545 n-Dodecyl acetate**

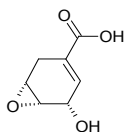
[112-66-3] C₁₄H₂₈O₂ (228.38). bp 150.5~151.5°C/15mmHg. Source: HEI MA YI *Formica fusca*. Ref: 6.

**6546 Dodecyl isopropyl ether**

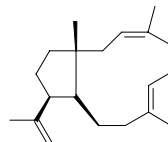
C₁₅H₃₂O (228.42). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**6547 Doederleinic acid**

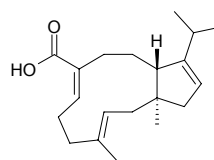
7(β)-Oxa-bicyclo-[4,1,0]-hept-3-ene-3-carboxylic acid-5(β)-hydroxy C₇H₈O₄ (156.14). White granular powder, mp 185~186°C, [α]_D¹⁰ = -13.8° (c = 0.2, EtOH). Source: DA YE CAI *Selaginella doederleinii*. Ref: 484.

**6548 (-)-Dolabella-3,7,18-triene**

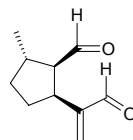
C₂₀H₃₂ (272.48). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**6549 Dolabeserpenoic acid A**

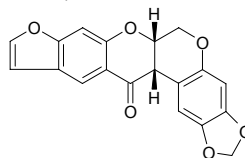
(3E,7Z)-Dollabella-3,7,12-trien-17-oic acid C₂₀H₃₀O₂ (302.46). Amorphous powder. [α]_D = -32.1° (c = 1.5, CHCl₃). Pharm: Antifungal. Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 2063.

**6550 Dolichodial**

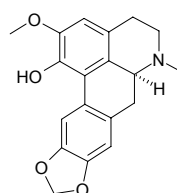
[5951-57-5] C₁₀H₁₄O₂ (166.22). Pharm: Anthelmintic; lacrimator. Source: MA SHI XIANG KE KE *Teucrium marum*. Ref: 658.

**6551 Dolineone**

[10065-28-8] C₁₉H₁₂O₆ (336.30). mp 233~235°C. Pharm: Antiviral (HSV-1, 50μg/mL, InRt = 15.4%; HSV-2, 50μg/mL, InRt = 24.4%). Source: DI GUA ZI *Pachyrhizus erosus*, DOU SHU *Pachyrhizus erosus* (seed). Ref: 6, 4180.

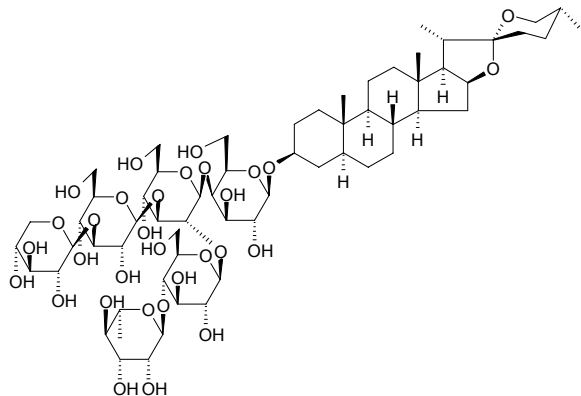
**6552 Domesticine**

[476-71-1] C₁₉H₁₉NO₄ (325.37). mp 115~117°C. Pharm: Convulsant (high dose, warm-blooded animal such as dog); inhibits CNS with activity similar to that of morphine (poikilotherm such as frog); inhibits heart (rbt and frog, *in vitro*); reduces intestinal vessel tension (gpg, *in vitro*); mild anesthetic (low dose, warm-blooded animal such as mus or dog); paralyzes striated muscle; paralyzes uterus (high dose, rbt, *in vitro*); uterine stimulant (low dose, rbt, *in vitro*); rises intestinal vessel tension (gpg, *in vivo*). Source: GE CAI KE SHI ZI JIN *Corydalis gortschakovii*, JIAN JU ZI JIN *Corydalis suaveolens* [Syn. *Corydalis sheareri*], NAN TIAN ZHU GEN *Nandina domestica*, NAN TIAN ZHU GENG *Nandina domestica*, NAN TIAN ZHU ZI *Nandina domestica*. Ref: 4, 6, 658.

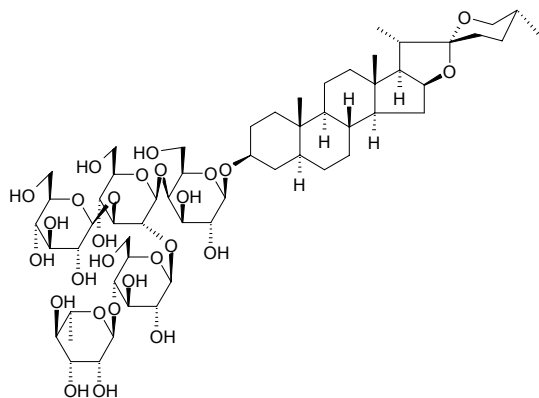


6553 Dongnoside A

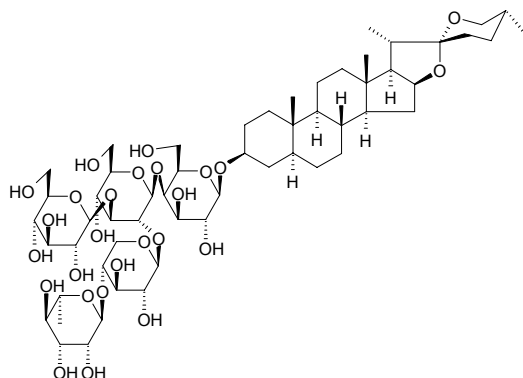
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] [149664-94-8] C₆₂H₁₀₂O₃₁ (1343.49). mp 265~270°C, [α]_D = -51.5°. Source: DONG YI HAO JIAN MA *Agave east-one*. Ref: 2503.

**6554 Dongnoside B**

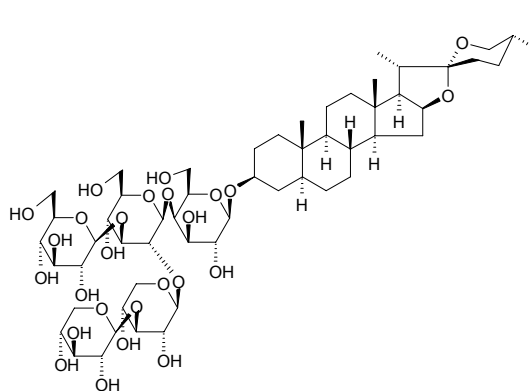
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] [149664-93-7] C₅₇H₉₄O₂₇ (1211.37). mp 275~277°C, [α]_D = -50.8°. Source: DONG YI HAO JIAN MA *Agave east-one*. Ref: 2503.

**6555 Dongnoside C**

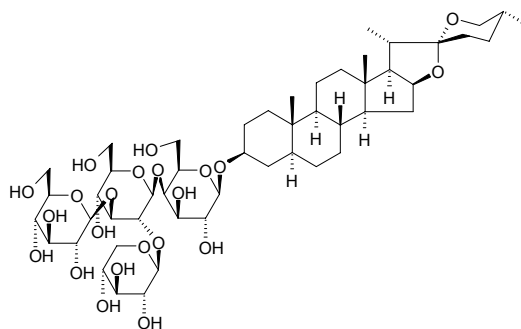
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] [125265-73-8] C₅₆H₉₂O₂₆ (1181.34). Source: DONG YI HAO JIAN MA *Agave east-one*. Ref: 10.

**6556 Dongnoside D**

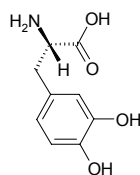
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] [125288-52-0] C₅₅H₉₀O₂₆ (1167.31). Source: DONG YI HAO JIAN MA *Agave east-one*. Ref: 10.

**6557 Dongnoside E**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] [125265-72-7] C₅₀H₈₂O₂₂ (1035.20). Source: DONG YI HAO JIAN MA *Agave east-one*. Ref: 10.

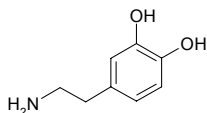
**6558 Dopa**

L-3,4-Dihydroxyphenylalanine [59-92-7] C₉H₁₁NO₄ (197.19). mp (-) 283°C, (\pm) 271~272°C (dec). Pharm: Precursor to biosynthesis of arterenol and dopamine; LD₅₀ (mus, orl) = 3650mg/kg, (rat, orl) \geq 4000mg/kg, (rbt, orl) = 609mg/kg. Source: CAN DOU *Vicia faba*, MAO DOU *Mucuna cochinchinensis*, CHANG CHUN YOU MA TENG *Mucuna sempervirens*, BAI HUA YOU MA TENG *Mucuna birdwoodiana*, LI DOU *Stizolobium capitatum*, CAN DOU YE *Vicia faba*, CAN DOU JIA KE *Vicia faba*, MA CHI XIAN *Portulaca oleracea*, XU SUI ZI JING ZHONG BAI ZHI *Euphorbia lathyris*, *Lupinus* sp. Ref: 6, 658.

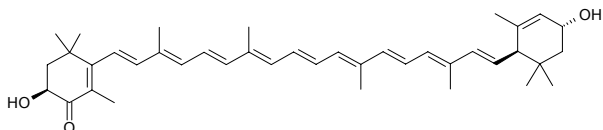


6559 Dopamine

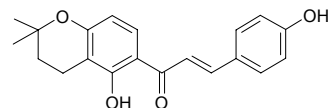
4-(2-Aminoethyl)pyrocatechol [51-61-6] $C_8H_{11}NO_2$ (153.18). **Pharm:** Enhances myocardial contractility and increases blood flow; improves peripheral circulation and markedly increases amount of urine; neurotransmitter (in adrenal medulla and brain); Precursor to biosynthesis of adrenalin. **Source:** AN LU LONG SHE LAN *Lophophora williamsii*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], MA CHI XIAN *Portulaca oleracea*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], XIANG JIAO *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*]. **Ref:** 2, 6, 658.

**6560 Doradexanthin**

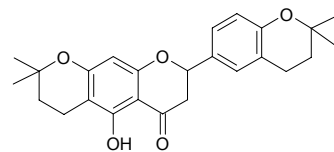
4-Ketolutein [29125-77-7] $C_{40}H_{54}O_3$ (582.87). **Source:** LI YU PI *Cyprinus carpio*, JIN YU *Carassius auratus*. **Ref:** 6, 660.

**6561 Dorsmanin A**

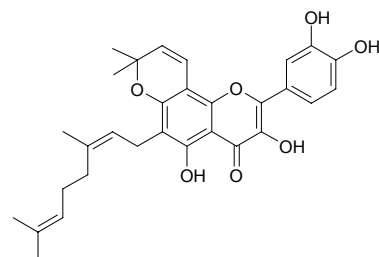
$C_{20}H_{20}O_4$ (324.38). **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6562 Dorsmanin B**

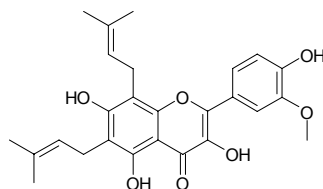
$C_{25}H_{28}O_5$ (408.50). **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6563 Dorsmanin C**

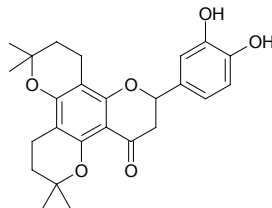
$C_{30}H_{32}O_7$ (504.59). **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6564 Dorsmanin D**

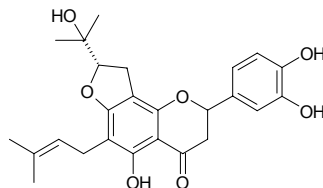
$C_{26}H_{28}O_7$ (452.51). **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6565 Dorsmanin E**

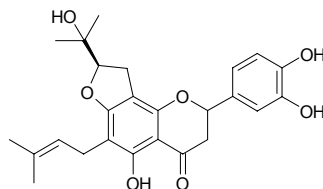
$C_{25}H_{28}O_6$ (424.50). **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6566 Dorsmanin Fa**

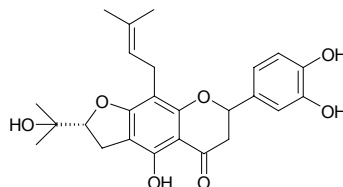
2''-Epidorsmanin Fa $C_{25}H_{28}O_7$ (440.50). Beige plates (CH_2Cl_2), mp 168–170°C. **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

**6567 Dorsmanin Fb**

2''-Epidorsmanin Fb $C_{25}H_{28}O_7$ (440.50). Beige plates (CH_2Cl_2), mp 168–170°C. **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

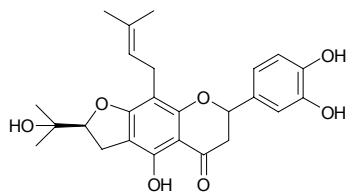
**6568 Dorsmanin Ga**

2''-Epidorsmanin Ga $C_{25}H_{28}O_7$ (440.50). Colorless powder, mp 148–150°C. **Source:** MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). **Ref:** 5116.

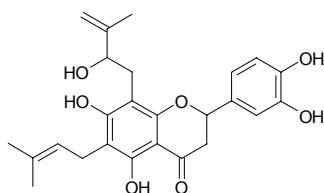


6569 Dorsmanin Gb

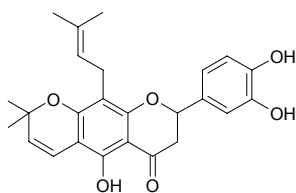
2"-Epidorsmanin Gb C₂₅H₂₈O₇ (440.50). Colorless powder, mp 148–150°C.
 Source: MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). Ref: 5116.

**6570 Dorsmanin H**

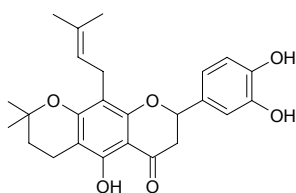
C₂₅H₂₈O₇ (440.50). Source: MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). Ref: 5116.

**6571 Dorsmanin I**

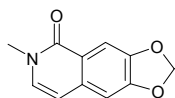
6,7-(2,2-Dimethylpyrano)-8-prenyl-5,3',4'-trihydroxyflavanone C₂₅H₂₆O₆ (422.48). Yellow plates (hexane-EtOAc), mp 172–174°C, [α]_D²⁰ = -27° (c = 0.12, MeOH). Source: MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). Ref: 5116.

**6572 Dorsmanin J**

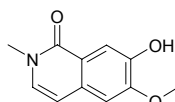
6,7-(2,2-Dimethyldihydropyrano)-8-prenyl-5,3',4'-trihydroxyflavanone C₂₅H₂₈O₆ (424.50). Brown gum, [α]_D²⁰ = -17° (c = 0.17, MeOH). Source: MAN NI DUO TAN CAO *Dorstenia mannii* (aerial parts). Ref: 5116.

**6573 Doryanine**

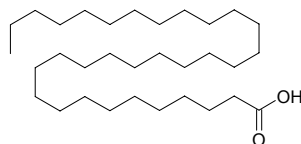
C₁₁H₉NO₃ (203.20). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**6574 Doryphornine**

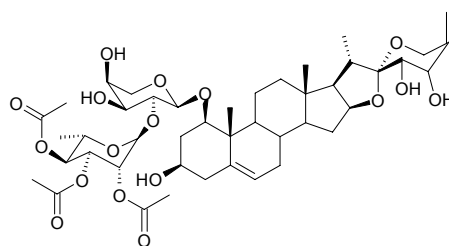
C₁₁H₁₁NO₃ (205.22). Source: BIAN FU GE GEN *Menispermum dauricum*, *Doryphora sassafras* (bark). Ref: 1521, 3792.

**6575 Dotriacontanic acid**

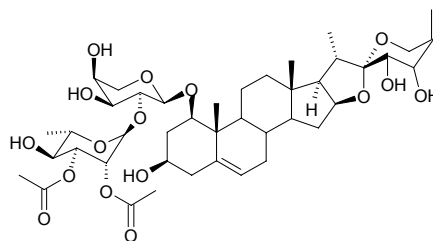
[3625-52-3] C₃₂H₆₄O₂ (480.87). Source: HUI BAO HAO *Artemisia roxbugiana*. Ref: 503.

**6576 DraconinA**

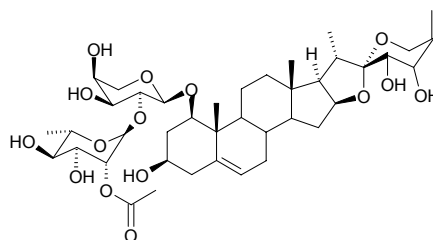
(23S,24S)-Spirosta-5,25(27)-diene-1β,3β,23,24-tetrol-O- $\{O$ -(2,3,4-tri-O-acetyl-1- α -L-rhamnopyranosyl)-(1→2)- α -L-arabinopyranosyl} C₄₄H₆₄O₁₇ (864.99). Amorphous solid, [α]_D²⁰ = -70° (c = 1.5, ethanol). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 9.7 μmol/L). Source: LONG XUE SHU *Dracaena draco* (stem cortex: yield = 0.00034%). Ref: 4696.

**6577 DraconinB**

(23S,24S)-Spirosta-5,25(27)-diene-1β,3β,23,24-tetrol 1-O- $\{O$ -(2,3-di-O-acetyl- α -L-rhamnopyranosyl)-(1→2)- α -L-arabinopyranosyl} C₄₂H₆₂O₁₆ (822.95). Amorphous solid, [α]_D²⁰ = -100° (c = 2.6, ethanol). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 39 μmol/L). Source: LONG XUE SHU *Dracaena draco* (stem cortex: yield = 0.0017%). Ref: 4696.

**6578 DraconinC**

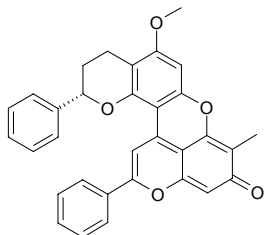
(23S,24S)-Spirosta-5,25(27)-diene-1β,3β,23,24-tetrol 1-O- $\{O$ -(2-O-acetyl- α -L-rhamnopyranosyl)-(1→2)- α -L-arabinopyranosyl} C₄₀H₆₀O₁₅ (780.92). Amorphous solid, [α]_D²⁰ = -85° (c = 11.5, ethanol). Pharm: Cytotoxic inactive (*in vitro*, HL-60, IC₅₀ > 100 μmol/L). Source: LONG XUE SHU *Dracaena draco* (stem cortex: yield = 0.0039%). Ref: 4696.



6579 Dracorubin

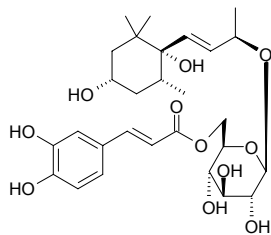
[6219-63-2] C₃₂H₂₄O₅ (488.55). Source: LONG XUE SHU *Dracaena draco*.

Ref: 658.

**6580 Dracunculifoside A**

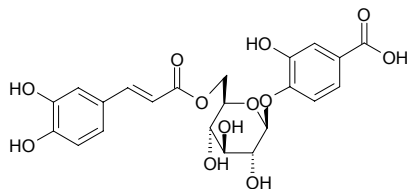
C₂₈H₄₁O₁₁ (552.62). Amorphous powder, $[\alpha]_D^{26} = -24.4^\circ$ ($c = 0.75$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6581 Dracunculifoside B**

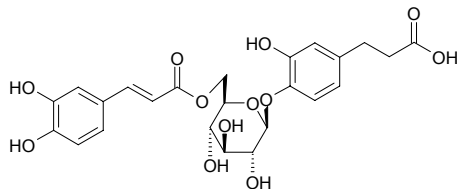
C₂₂H₂₂O₁₂ (478.41). Amorphous powder, $[\alpha]_D^{26} = -72.9^\circ$ ($c = 0.40$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6582 Dracunculifoside C**

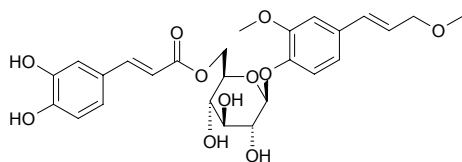
C₂₄H₂₆O₁₂ (506.47). Amorphous powder, $[\alpha]_D^{26} = -58.9^\circ$ ($c = 0.59$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6583 Dracunculifoside D**

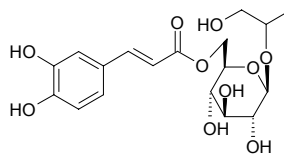
C₂₆H₃₀O₁₁ (518.52). Amorphous powder, $[\alpha]_D^{26} = -6.7^\circ$ ($c = 0.36$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6584 Dracunculifoside E**

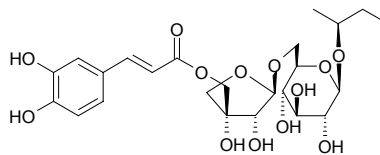
C₁₈H₂₄O₁₀ (400.39). Amorphous powder, $[\alpha]_D^{26} = -19.9^\circ$ ($c = 0.68$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6585 Dracunculifoside F**

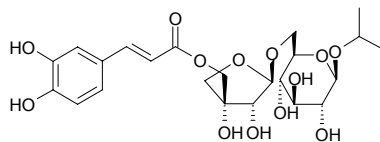
C₂₄H₃₄O₁₃ (530.52). Amorphous powder, $[\alpha]_D^{26} = -41.9^\circ$ ($c = 0.95$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6586 Dracunculifoside G**

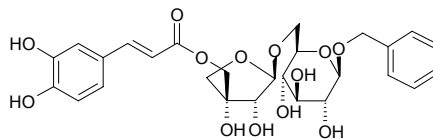
C₂₃H₃₂O₁₃ (516.50). Amorphous powder, $[\alpha]_D^{26} = -51.8^\circ$ ($c = 0.46$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6587 Dracunculifoside H**

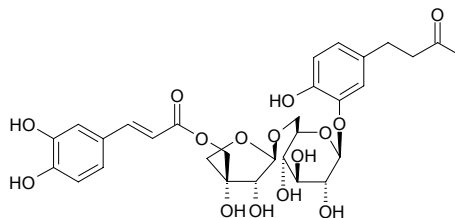
C₂₇H₃₂O₁₃ (564.55). Amorphous powder, $[\alpha]_D^{26} = -64.0^\circ$ ($c = 0.84$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6588 Dracunculifoside I**

C₃₀H₃₆O₁₅ (636.61). Amorphous powder, $[\alpha]_D^{26} = -77.6^\circ$ ($c = 0.59$, MeOH).

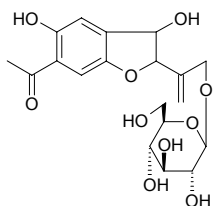
Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.



6589 Dracunculifoside J

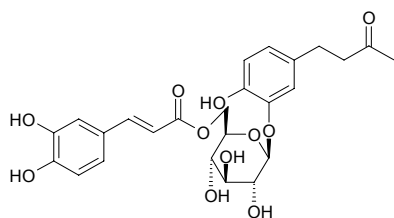
$C_{19}H_{24}O_{10}$ (412.40). Amorphous powder, $[\alpha]_D^{26} = -18.8^\circ$ ($c = 0.86$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4137.

**6590 Dracunculifoside K**

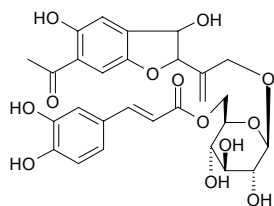
$C_{25}H_{28}O_{11}$ (504.50). Amorphous powder, $[\alpha]_D^{22} = -49^\circ$ ($c = 0.55$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6591 Dracunculifoside L**

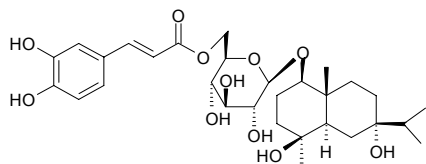
$C_{28}H_{30}O_{13}$ (574.54). Amorphous powder, $[\alpha]_D^{22} = -28^\circ$ ($c = 0.23$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6592 Dracunculifoside M**

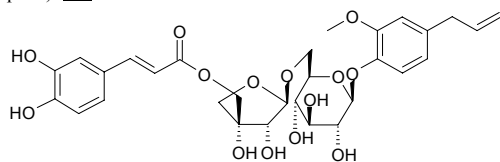
$C_{30}H_{44}O_{11}$ (580.68). Amorphous powder, $[\alpha]_D^{22} = -35^\circ$ ($c = 0.35$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6593 Dracunculifoside N**

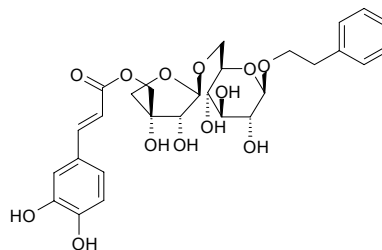
$C_{30}H_{36}O_{14}$ (620.61). Amorphous powder, $[\alpha]_D^{22} = -71^\circ$ ($c = 0.54$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6594 Dracunculifoside O**

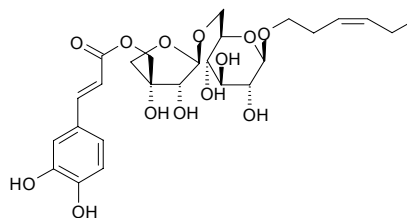
$C_{28}H_{34}O_{13}$ (578.58). Amorphous powder, $[\alpha]_D^{22} = -51^\circ$ ($c = 0.36$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6595 Dracunculifoside P**

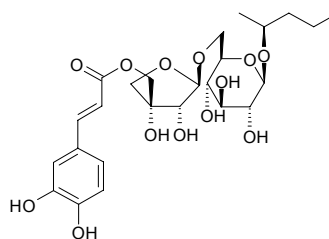
$C_{26}H_{36}O_{13}$ (556.57). Amorphous powder, $[\alpha]_D^{22} = -49^\circ$ ($c = 0.39$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6596 Dracunculifoside Q**

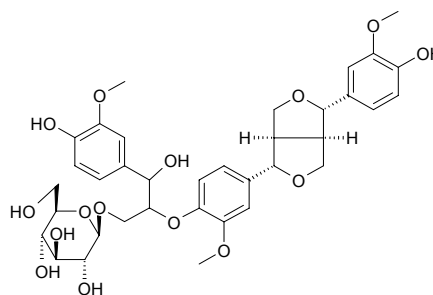
$C_{25}H_{36}O_{13}$ (544.56). Amorphous powder, $[\alpha]_D^{22} = -58^\circ$ ($c = 0.16$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

**6597 Dracunculifoside R**

$C_{36}H_{44}O_{15}$ (716.74). Amorphous powder, $[\alpha]_D^{22} = +8.5^\circ$ ($c = 0.30$, MeOH).

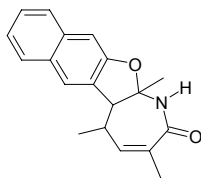
Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.



6598 Drazepinone

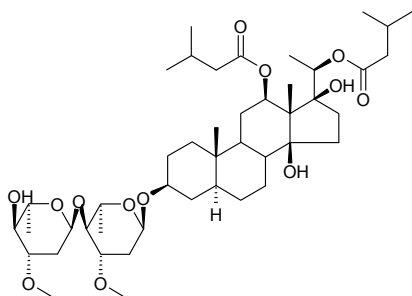
3,5,12a-Trimethyl-2,5,5a,12a-tetrahydro-1*H*-naphtho[2',3':4,5]furo[2,3-*b*]azepin-2-one C₁₉H₁₉NO₂ (293.37). [α]_D²⁵ = +7.1° (*c* = 0.2). **Pharm:** Herbicide.

Source: *Drechslera siccans*. **Ref:** 5268.

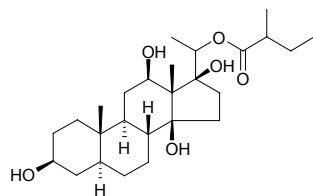
**6599 Dregeoside B**

12,20-Di-*O*-isovaleryl-tomentogenin-3-*O*- α -*L*-oleandropyranosyl-(1 \rightarrow 4)-*O*- α -*L*-oleandropyranoside [133086-69-8] C₄₅H₇₆O₁₃ (825.10). White powder, mp 123~126°C, [α]_D²⁰ = +38.5° (*c* = 0.25, methanol). **Source:** KU SHENG

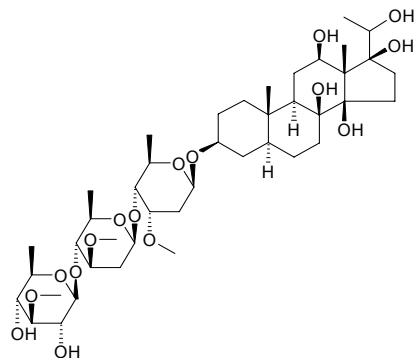
Dregea sinensis. **Ref:** 165.

**6600 Dresigenin B**

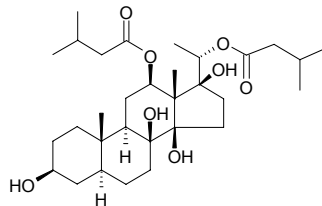
20-*O*-(2-Methylbutyryl)tomentogenin C₂₆H₄₄O₆ (452.64). Colorless acicular crystals, mp 232~235°C. **Source:** KU SHENG *Dregea sinensis*. **Ref:** 363.

**6601 Dresioside I**

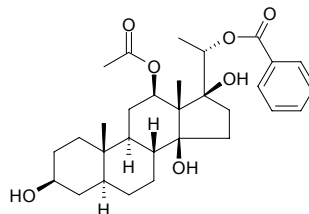
Dihydrosarcostin 3-*O*- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside C₄₂H₇₂O₁₆ (833.03). White amorphous powder, mp 151~154°C. **Source:** KU SHENG *Dregea sinensis*. **Ref:** 363.

**6602 Drevogenin I**

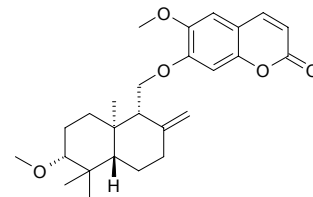
cis-5 α -*H*,3 β ,8 β ,14 β ,17 β -Tetrahydroxy-12 β -*O*-isovaleryl-20-*O*-isovaleryl-pregnane [125310-02-3] C₃₁H₅₂O₈ (552.76). Prismatic crystals, mp 235~238°C, [α]_D²⁵ = +34.5° (*c* = 0.15, MeOH). **Source:** KU SHENG *Dregea sinensis*. **Ref:** 134.

**6603 Drevogenin II**

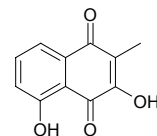
cis-5 α -*H*,3 β ,14 β ,17 β -Trihydroxy-12 β -*O*-acetyl-20-*O*-benzoyl-pregnane [125472-06-2] C₃₀H₄₂O₇ (514.67). Prismatic crystals, mp 235~237°C, [α]_D²⁵ = +36.5° (*c* = 0.52, MeOH). **Source:** KU SHENG *Dregea sinensis*. **Ref:** 134.

**6604 Driportlandin**

(5 β ,9 α ,10 α)-7-*O*-(3 α -Methoxy-8'(12')-drimen-11'-yl)-scopoletin C₂₆H₃₄O₅ (426.56). White amorphous solid, [α]_D²⁵ = +30.1° (*c* = 0.40, CHCl₃). **Pharm:** P-glycoprotein inhibitor (hmn MDR1 gene transfected mouse lymphoma cells, reverses multidrug resistance (MDR), more active than positive control Verapamil). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 5019.

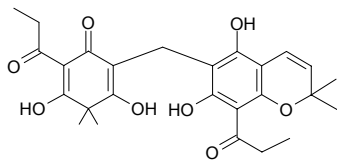
**6605 Droserone**

3,5-Dihydroxy-2-methyl-1,4-naphthoquinone [478-40-0] C₁₁H₈O₄ (204.18). mp 181°C. **Pharm:** Antibacterial (hmn *Mycobacterium tuberculosis* H37RV, *in vitro*, MIC = 25 μ g/mL). **Source:** DUN ZHUANG MAO GAO CAI *Drosera peltata*, HUI TE KE MAO GAO CAI *Drosera whittakeri*, MAO GAO CAI *Drosera peltata* var. *lunata*. **Ref:** 6, 621, 658.

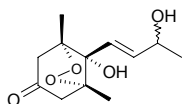


6606 Drummondin A

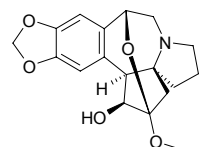
[119171-76-5] $C_{26}H_{30}O_8$ (470.52). **Pharm:** Antimicrobial; cytotoxic (P₃₈₈, KB). **Source:** DE LA MENG DE JIN SI TAO *Hypericum drummondii*. **Ref:** 658.

**6607 Drummondol**

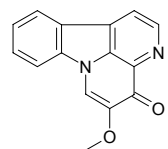
$C_{12}H_{18}O_5$ (242.27). **Source:** HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00021%dw). **Ref:** 4779.

**6608 Drupacine**

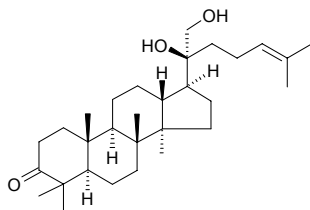
[49686-57-9] $C_{18}H_{21}NO_5$ (331.37). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*], SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.10%)^[4675], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 2, 660, 4675.

**6609 Drymaritin**

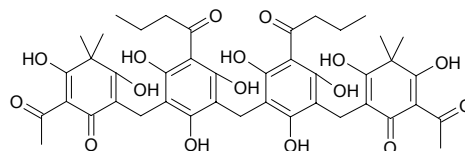
$C_{15}H_{10}N_2O_2$ (250.26). Pale yellow amorphous solid, mp 181~183°C, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.02$, $CHCl_3$). **Pharm:** Anti-HIV (H9 lymphocytes, $EC_{50} = 0.699\mu g/mL$, $TI = 20.6$). **Source:** ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.0011%dw). **Ref:** 4758.

**6610 Dryobalanone**

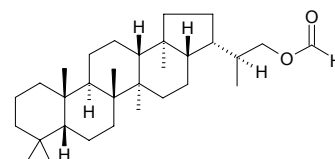
20,21-Dihydroxydammar-24-en-3-one [17939-10-5] $C_{30}H_{50}O_3$ (458.73). **Source:** BING PIAN *Dryobalanops aromatica*. **Ref:** 2.

**6611 Dryocrassin**

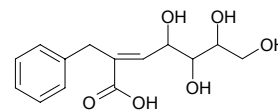
[12777-70-78] $C_{43}H_{48}O_{16}$ (820.85). Yellow crystals (acetone), mp 209~214°C; yellowish powder crystals, mp 210~214°C. **Pharm:** Schistosomacide (*Bilharzia japonica*). **Source:** GUAN ZHONG *Dryopteris crassirhizoma* (dried rhizome: content scope = 2.15%~6.95%, mean content = 4.37%^[5508]). **Ref:** 658, 5508.

**6612 Dryocrassyl formate**

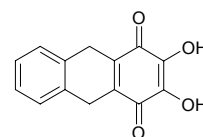
$C_{31}H_{52}O_2$ (456.76). mp 67°C, $[\alpha]_D = +21.3^\circ$ ($c = 0.2$, $CHCl_3$). **Source:** BING YE SUO LUO *Yathea podophylla* (fresh frond). **Ref:** 4401.

**6613 Drypearmoracin A**

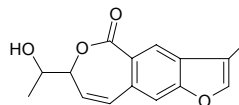
(*E*)-4,5,6,7-Tetrahydroxy-2-benzylhept-2-enoic acid $C_{14}H_{18}O_6$ (282.30). Colorless crystals, mp 250°C, $[\alpha]_D = +27^\circ$ ($c = 0.750$, MeOH). **Source:** LA GEN HE GUO MU *Drypetes armoracia*. **Ref:** 3389.

**6614 Drypearmoracin B**

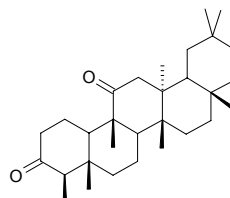
2,3-Dihydroxy-9,10-tetrahydroanthra-1,4-quinone $C_{14}H_{10}O_4$ (242.23). White crystals, mp 160°C. **Source:** LA GEN HE GUO MU *Drypetes armoracia*. **Ref:** 3389.

**6615 Drypemolundein A**

$C_{15}H_{14}O_4$ (258.28). White crystals, mp 148~150°C, $[\alpha]_D^{25} = -137.0^\circ$ ($c = 1.01$, $CHCl_3$). **Source:** *Drypetes molunduana* (stem). **Ref:** 3989.

**6616 Drypemolundein B**

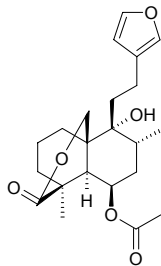
$C_{30}H_{48}O_2$ (440.72). White powder, mp 290~292°C, $[\alpha]_D^{25} = -8.0^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** *Drypetes molunduana* (stem). **Ref:** 3989.



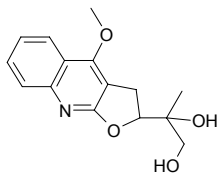
6617 Dubiin

$C_{22}H_{30}O_6$ (390.48). **Pharm:** Cytotoxic (L_{1210} in tissue culture, $IC_{50} = 50\text{--}60\mu\text{g/mL}$).

Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). **Ref:** 4328.

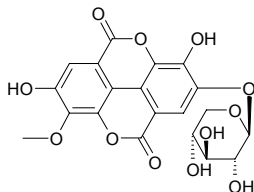
**6618 Dubinidine**

[22964-77-8] $C_{15}H_{17}NO_4$ (275.31). mp 132~133°C; hydrochloride: mp 195~196°C; nitrate: mp 176~177°C. **Pharm:** Anti-diuretic (2000mg/kg); sedative (mus and rat, 100mg/kg orl); antipyretic (mus and rat, 100mg/kg orl). **Source:** DA YE YUN XIANG CAO *Haplophyllum perforatum*. **Ref:** 658.

**6619 Ducheside A**

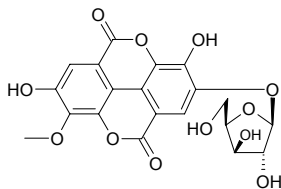
3'-*O*-Methyl-ellagic acid-4-*O*-β-*D*-xylopyranoside $C_{20}H_{16}O_{12}$ (448.34).

Yellowish powder, mp > 360°C, $[\alpha]_D^{18} = -11.3^\circ$ ($c = 0.035$, methanol). **Source:** SHE MEI *Duchesnea indica*. **Ref:** 368.

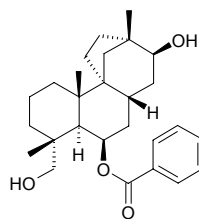
**6620 Ducheside B**

3'-*O*-Methyl-ellagic acid 4-*O*-α-*L*-arabinofuranoside $C_{20}H_{16}O_{12}$ (448.34).

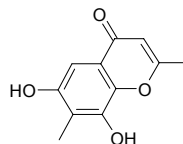
Yellowish powder, mp > 360°C, $[\alpha]_D^{19} = -126.5^\circ$ ($c = 0.027$, methanol). **Source:** SHE MEI *Duchesnea indica*. **Ref:** 368.

**6621 Dulcidiol**

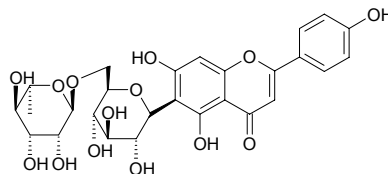
$C_{27}H_{38}O_4$ (426.6). Gum, $[\alpha]_D^{25} = -33.5^\circ$ ($c = 0.50$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, SCL, $ED_{50} = 45.3\mu\text{mol/L}$; SCL-6, $ED_{50} = 46\mu\text{mol/L}$; SCL-37'6, $ED_{50} = 42.6\mu\text{mol/L}$; SCL-9, $ED_{50} = 41.6\mu\text{mol/L}$; Kato3, $ED_{50} = 29\mu\text{mol/L}$; NUGC-4, $ED_{50} = 105.1\mu\text{mol/L}$; control Vinblastine Sulfate: SCL, $ED_{50} = 5.9\mu\text{mol/L}$; SCL-6, $ED_{50} = 6.1\mu\text{mol/L}$; SCL-37'6, $ED_{50} = 5.3\mu\text{mol/L}$; SCL-9, $ED_{50} = 5.3\mu\text{mol/L}$; Kato3, $ED_{50} = 6.1\mu\text{mol/L}$; NuGc-4, $ED_{50} = 5.3\mu\text{mol/L}$). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00231%dw). **Ref:** 4703.

**6622 Dulcinone**

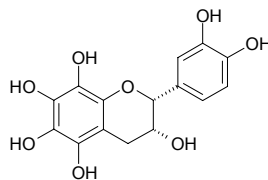
6,8-Dihydroxy-2,7-dimethyl-4*H*-chromen-4-one $C_{11}H_{10}O_4$ (206.20). Yellow solid. **Pharm:** Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 3%; control BHT, 10μmol/L, ScRt = 43%, $IC_{50} = 19.00\mu\text{mol/L}$). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 4422.

**6623 Dulcinoside**

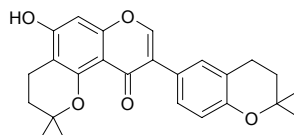
5,7,4'-Trihydroxyflavone 6-*C*-[α-rhamnopyranosyl-(1→6)]-β-glucopyranoside $C_{27}H_{30}O_{14}$ (578.53). Yellow solid, mp 200~202°C. **Pharm:** Antioxidant (DPPH scavenger, 10μmol/L, ScRt = 22%, control BHT, 10μmol/L, ScRt = 43%). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

**6624 Dulcisflavan**

3,5,6,7,8,3',4'-Heptahydroxyflavan $C_{15}H_{14}O_8$ (322.27). Light brown solid, mp 240~242°C, $[\alpha]_D^{29} = -72.0^\circ$ ($c = 0.012$, CH_3OH). **Pharm:** Antioxidant (DPPH scavenger, 10μmol/L, ScRt = 87%, control BHT, 10μmol/L, ScRt = 43%). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

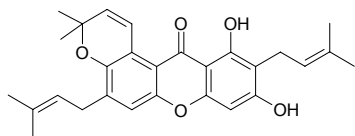
**6625 Dulcisisoflavone**

7-Hydroxy-2'',2''-dimethylchromano[5,6:6',5'']-2''',2'''-dimethylchromano[3',4':5'',6''']isoflavone $C_{25}H_{26}O_5$ (406.48). Yellow solid, mp 178~180°C. **Pharm:** Antioxidant (DPPH scavenger, 10μmol/L, ScRt = 15%, control BHT, 10μmol/L, ScRt = 43%). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

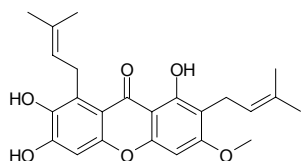


6626 Dulcisxanthone A

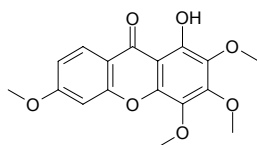
1,3-Dihydroxy-2,6-bis(3-methyl-2-butenyl)-2,2-dimethylchromeno(5''',6''':8,7)xanthone C₂₈H₃₀O₅ (446.55). Yellow solid, mp 119~120°C. **Pharm:** Antioxidant (DPPH scavenger, 10μmol/L, ScRt = 2%, control BHT, 10μmol/L, ScRt = 43%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128μg/mL, control Vancomycin, MIC = 2μg/mL; *Staphylococcus aureus* MRSA SK1, MIC > 128μg/mL, Vancomycin, MIC = 2μg/mL). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

**6627 Dulcisxanthone B**

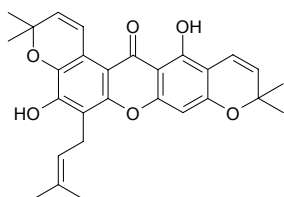
1,6,7-Trihydroxy-3-methoxy-2,8-bis(3-methyl-2-butenyl)xanthone C₂₄H₂₆O₆ (410.47). Yellow solid, mp 170~172°C. **Pharm:** Antioxidant (DPPH scavenger, 10μmol/L, ScRt = 18%, control BHT, 10μmol/L, ScRt = 43%). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

**6628 Dulcisxanthone C**

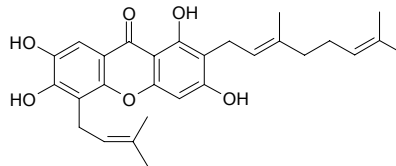
1-Hydroxy-2,3,4,6-tetramethoxyxanthone C₁₇H₁₆O₇ (322.31). Yellow solid, mp 125~128°C. **Pharm:** Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 2%; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 4422.

**6629 Dulcisxanthone D**

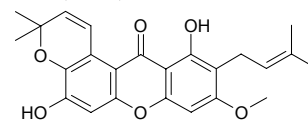
Tovophyllin B; 1,6-Dihydroxy-5-(3-methyl-2-butenyl)-2',2'-dimethylchromeno(5',6':2,3)-2''',2'''-dimethylchromeno(5''',6''':8,7)xanthone C₂₈H₂₈O₆ (460.53). Orange solid, mp 218~220°C. **Pharm:** Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 16%; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L)^[4422]; antitubercular (*Mycobacterium tuberculosis*, MIC = 25μg/mL)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit, fruit hull), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 3066, 4358, 4422.

**6630 Dulcisxanthone E**

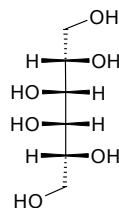
1,3,6,7-Tetrahydroxy-2-(3,7-dimethyl-2,6-octadienyl)-5-(3-methyl-2-butenyl)xanthone C₂₈H₃₂O₆ (464.56). Yellow solid. **Pharm:** Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 15%; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 4422.

**6631 Dulcisxanthone F**

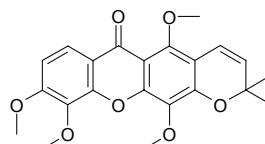
1,6-Dihydroxy-2-(3-methyl-2-butenyl)-3-methoxy-2''-dimethylchromeno-(5',6'':8,7)-xanthone C₂₄H₂₄O₆ (408.46). Yellow solid. **Pharm:** Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 2%; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 4422.

**6632 Dulcitol**

Galactitol [608-66-2] C₆H₁₄O₆ (182.17). mp 188.5°C, bp 275~280°C/1mmHg; mp 110~111°C (anhydrate); mp 188~190°C, bp 275~280°C/1mmHg. **Pharm:** Sweetener (sugar substitute); laxative (veterinary). **Source:** A LA BO PO NA *Veronica persica* (aerial parts), DOU SHU *Pachyrrhizus erosus* (seed), DU ZHONG *Eucommia ulmoides*, FU FANG TENG *Euonymus fortunei*, GUI JIAN YU *Euonymus alatus*, HAI HONG DOU *Adenantha pavonina*, JI CAI *Capsella bursa-pastoris*, LEI GONG TENG *Tripterygium wilfordii*, OU ZHOU HUA QIU *Sorbus aucuparia*, PI PA YE *Eriobotrya japonica*, SHI LIU GEN *Punica granatum*, SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, SHUI ZHI YE *Gardenia jasminoides* var. *grandiflora*, SI MIAN MU *Euonymus bungeanus*, SUO LA MU *Salacia prinooides* [Syn. *Salacia chinensis*], WU YE TENG *Cassytha filiformis*, YE ZI RANG *Cocos nucifera*, YUAN CAN ZI *Bombyx mori*, ZI GUO WEI MAO *Euonymus atropurpureus*. **Ref:** 2, 6, 587, 658, 1521, 4180, 4211.

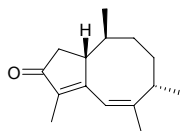
**6633 Dulxanthone E**

5,9,10,12-Tetramethoxy-2,2-dimethyl-2H-pyrano[5,6-b]xanthen-6-one C₂₂H₂₂O₇ (398.42). Yellow cubes, mp 191~192°C. **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis*. **Ref:** 2399.

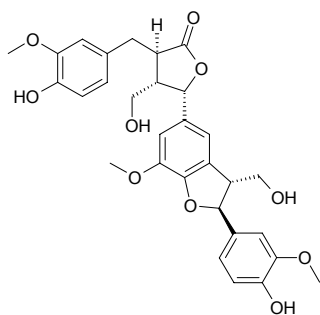


6634 4,6-Dumortadien-3-one

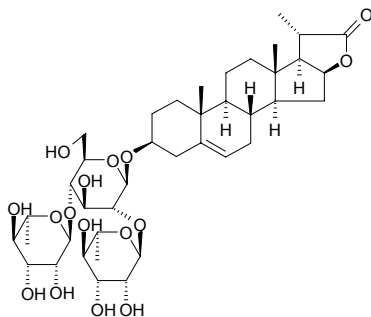
[240417-19-0] C₁₅H₂₂O (218.34). Oil. Source: MAO DI QIAN *Dumortiera hirsuta*. Ref: 2283.

**6635 Dumosaol**

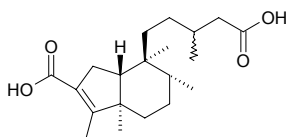
3-(4-Hydroxy-3-methoxy-benzyl)-5-[2-(4-hydroxy-3-methoxy-phenyl)-3-hydroxymethyl-7-methoxy-2,3-dihydro-benzofuran-5-yl]-4-hydroxymethyl-dihydro-furan-2-one C₃₀H₃₂O₁₀ (552.58). Amorphous powder, mp 70~72°C, [α]_D²⁷ = +30.44° (c = 0.77, MeOH). Source: YUN NAN TIE SHAN *Tsuga dumosa* (heartwood). Ref: 4572.

**6636 Dumoside**

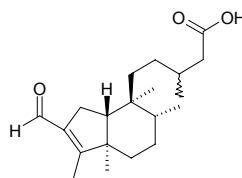
(2*S*)-3β,16β-dihydroxy pregn-5-ene-22-carboxylic acid (22,16)-lactone-3-*O*-β-chacotrioxide C₄₀H₆₂O₁₆ (798.93). white amorphous, mp 185.5~187°C, [α]_D²⁵ = -13.38° (c = 0.36, MeOH). Source: GUAN MU TIAN MEN DONG *Asparagus dumosus*, HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00013%)^[4692]. Ref: 1908, 4692.

**6637 Dunniana acid A**

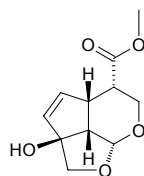
C₂₀H₃₂O₄ (336.48). Colorless oil, [α]_D²³ = +281.4° (c = 0.35, CHCl₃). Source: HEI GUO HUANG PI *Clausena dunniana* (aerial parts: yield = 0.00035%dw). Ref: 4615.

**6638 Dunniana acid B**

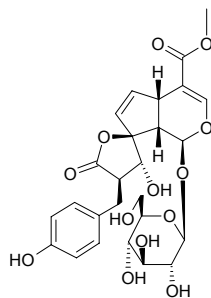
C₂₀H₃₂O₃ (320.48). Colorless oil, [α]_D²³ = +83.3° (c = 0.75, CHCl₃). Source: HEI GUO HUANG PI *Clausena dunniana* (aerial parts: yield = 0.00075%dw). Ref: 4615.

**6639 Dunnisinin**

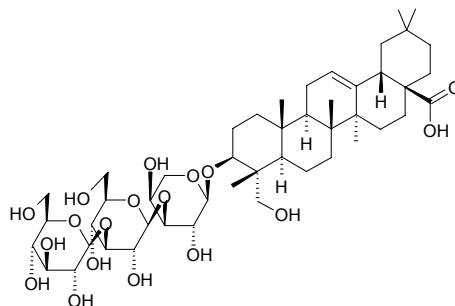
C₁₁H₁₄O₅ (226.23). Colorless acicular crystals, mp 178~179°C, [α]_D²⁵ = +213.5° (c = 0.2, MeOH). Source: XIU QIU QIAN CAO *Dunnia sinensis*. Ref: 764.

**6640 Dunnisinide**

C₂₆H₃₀O₁₃ (550.52). Colorless prisms, mp 221~223°C, [α]_D²⁵ = +28.4° (c = 0.25, MeOH). Source: XIU QIU QIAN CAO *Dunnia sinensis*. Ref: 764.

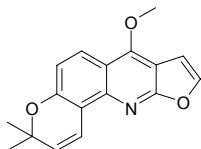
**6641 Duruposide C**

Hederagenin 3-*O*-β-*D*-glucopyranosyl(1→3)-β-*D*-glucopyranosyl(1→3)-α-*L*-arabinopyranoside C₄₇H₇₆O₁₈ (929.12). Amorphous powder (MeOH), [α]_D²⁷ = +35.7° (c = 0.28, MeOH). Source: LIAO DONG CONG MU YE *Aralia elata*. Ref: 4471.

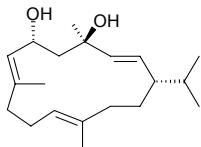


6642 Dutadrupine

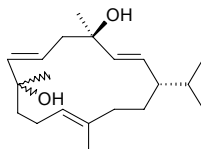
$C_{17}H_{15}NO_3$ (281.31). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 0.09 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 0.11 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 0.13 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL). **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.

**6643 β-4,8,13-Duvatriene-1,3-diol**

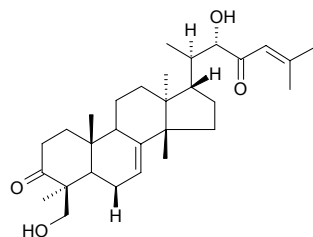
(1*S*,2*E*,4*R*,6*R*,7*E*,11*E*)-2,7,11-Cembratriene-4,6-diol [57605-81-9] $C_{20}H_{34}O_2$ (306.49). mp 127.0~127.5°C (hexane), $[\alpha]_D^{25} = +162^\circ$ (chloroform). **Pharm:** Antineoplastic (tumor caused by TPA, mus skin cancer caused by DMBA); anti-inflammatory; prostaglandin biosynthesis inhibitor (IC₅₀ = 0.39 mmol/L); plant growth inhibitor; aldose reductase inhibitor; pesticide (kills aphids, LC₅₀ = 15.7 μg/aphid). **Source:** YAN CAO *Nicotiana tabacum*. **Ref:** 900.

**6644 β-3,8,13-Duvatriene-1,5-diol**

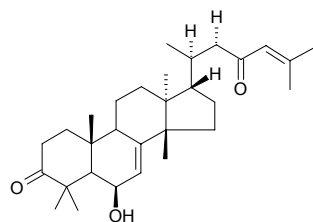
$C_{20}H_{34}O_2$ (306.49). Crystals (Et₂O), mp 150~152°C, $[\alpha]_D^{25} = +40^\circ$. **Source:** YAN CAO *Nicotiana tabacum*. **Ref:** 1521.

**6645 Dymacrin A**

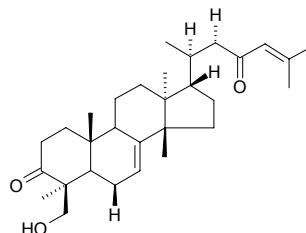
$C_{30}H_{46}O_4$ (470.70). $[\alpha]_D = +31^\circ$ (*c* = 1, CHCl₃). **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

**6646 Dymacrin B**

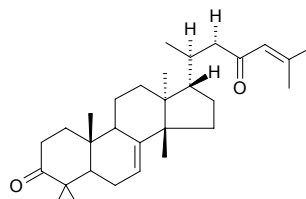
$C_{30}H_{46}O_3$ (454.70). $[\alpha]_D = -17^\circ$ (*c* = 1, CHCl₃). **Pharm:** Cytotoxic (KB cells, IC₅₀ = 5.6 μg/mL). **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

**6647 Dymacrin C**

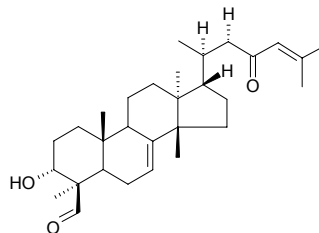
$C_{30}H_{46}O_3$ (454.70). $[\alpha]_D = +16^\circ$ (*c* = 1, CHCl₃). **Pharm:** Cytotoxic (KB cells, IC₅₀ = 5.0 μg/mL)^[2407]. **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

**6648 Dymacrin D**

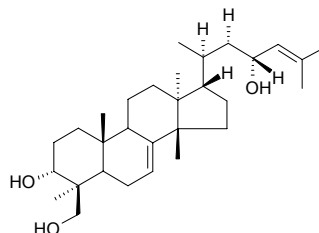
$C_{30}H_{46}O_2$ (438.70). $[\alpha]_D = -36^\circ$ (*c* = 1, CHCl₃). **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

**6649 Dymacrin E**

$C_{30}H_{46}O_3$ (454.70). $[\alpha]_D = +4^\circ$ (*c* = 1, CHCl₃). **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

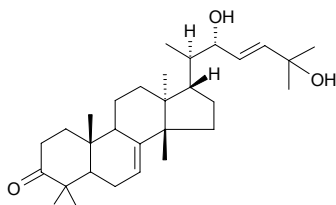
**6650 Dymacrin F**

$C_{30}H_{50}O_3$ (458.73). $[\alpha]_D = -27^\circ$ (*c* = 1, CHCl₃). **Source:** DA HUA JIAN MU *Dysoxylum macranthum*. **Ref:** 2407.

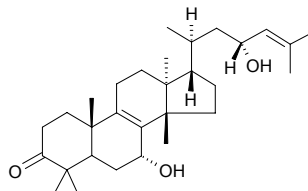


6651 Dymacrin G

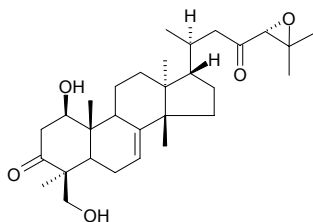
$C_{30}H_{48}O_3$ (456.72). $[\alpha]_D = -17^\circ$ ($c = 1$, $CHCl_3$). Source: DA HUA JIAN MU *Dysoxylum macranthum*. Ref: 2407.

**6655 Dymacrin K**

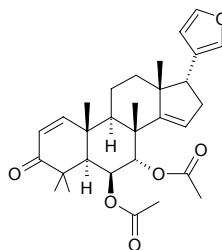
$C_{30}H_{48}O_3$ (456.72). $[\alpha]_D = -5^\circ$ ($c = 1$, $CHCl_3$). Source: DA HUA JIAN MU *Dysoxylum macranthum*. Ref: 2407.

**6652 Dymacrin H**

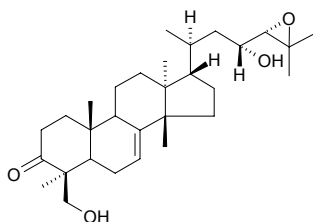
$C_{30}H_{46}O_5$ (486.70). $[\alpha]_D = +17^\circ$ ($c = 1$, $CHCl_3$). Pharm: Cytotoxic (KB cells, $IC_{50} = 8.3 \mu g/mL$)^[2407]. Source: DA HUA JIAN MU *Dysoxylum macranthum*. Ref: 2407.

**6656 Dysobinin**

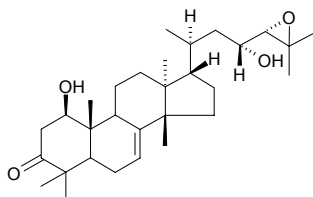
[62655-03-2] $C_{30}H_{38}O_6$ (494.63). mp 185–187°C, $[\alpha]_D = +150^\circ$ (chloroform). Pharm: Anti-inflammatory; CNS depressant. Source: HONG GUO JIAN MU *Dysoxylum binectariferum*. Ref: 661.

**6653 Dymacrin I**

$C_{30}H_{48}O_4$ (472.71). $[\alpha]_D = -31^\circ$ ($c = 1$, $CHCl_3$). Source: DA HUA JIAN MU *Dysoxylum macranthum*. Ref: 2407.

**6654 Dymacrin J**

$C_{30}H_{48}O_4$ (472.71). $[\alpha]_D = +30^\circ$ ($c = 1$, $CHCl_3$). Pharm: Cytotoxic (KB cells, $IC_{50} = 1.0 \mu g/mL$)^[2407]. Source: DA HUA JIAN MU *Dysoxylum macranthum*. Ref: 2407.

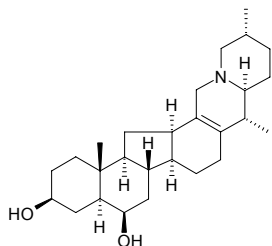


E

6657 Ebeienine

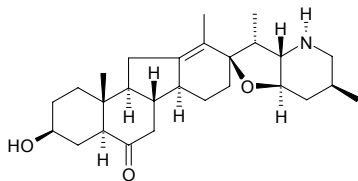
$C_{27}H_{43}NO_2$ (413.65). mp 274.5~278.5°C, $[\alpha]_D = -2.9^\circ$ ($c = 0.5$, MeOH).

Source: XI BEI MU *Fritillaria imperialis* (bulb), ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 1521, 2201, 4217.

**6658 Ebeiensine**

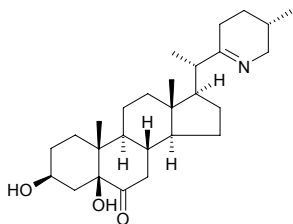
$C_{27}H_{41}NO_3$ (427.63). mp 228~230°C, $[\alpha]_D = -38^\circ$ ($c = 0.16$, $CHCl_3$). Source:

E BEI BEI MU *Fritillaria ebeiensis*, AN HUI BEI MU *Fritillaria anhuiensis*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2201.

**6659 Ebeietinone**

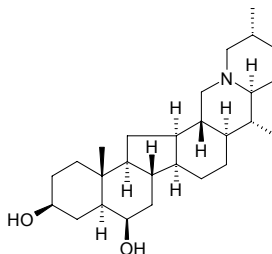
$C_{27}H_{43}NO_3$ (429.65). mp 199~203°C, $[\alpha]_D = -53.3^\circ$ ($c = 0.24$, $CHCl_3$). Source:

ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 2201.

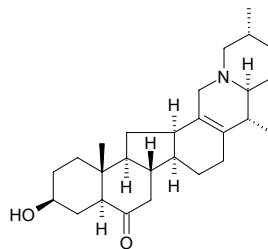
**6660 Ebeinine**

$C_{27}H_{45}NO_2$ (415.67). mp 114~115°C, $[\alpha]_D = -45.0^\circ$ ($c = 0.70$, MeOH). Source:

E BEI BEI MU *Fritillaria ebeiensis*, ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 2201.

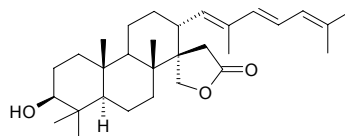
**6661 Ebeinone**

[125409-58-7] $C_{27}H_{41}NO_2$ (411.63). mp 108~110°C, $[\alpha]_D = -54.9^\circ$ ($c = 0.47$, MeOH). Source: E BEI BEI MU *Fritillaria ebeiensis*, XI BEI MU *Fritillaria imperialis* (bulb), ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2201, 4217.

**6662 Ebelin lactone**

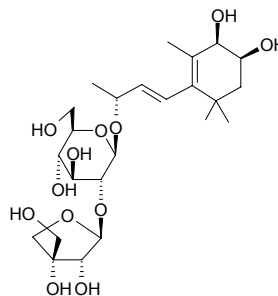
[3649-76-1] $C_{30}H_{46}O_3$ (454.70). mp 182~185°C. Source: SUAN ZAO REN

Ziziphus jujuba var. *spinosa*. Ref: 2.

**6663 Ebracteatoside A**

$C_{24}H_{40}O_{12}$ (520.58). Amorphous powder, $[\alpha]_D^{17} = -52.2^\circ$ ($c = 2.0$, MeOH).

Source: XIAO HUA LAO SHU LE *Acanthus ebracteatus* (aerial parts). Ref: 5211.

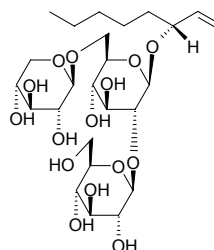
**6664 Ebracteatoside B**

(3*R*)-1-Octen-3-ol-3-*O*-β-*D*-xylopyranosyl-(1^{'''}→6['])-*O*-[β-*D*-glucopyranosyl-

(1^{''}→2['])]-*O*-β-*D*-glucopyranoside $C_{25}H_{44}O_{15}$ (584.62). Amorphous powder,

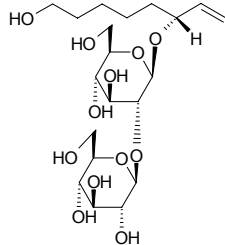
$[\alpha]_D^{22} = -45.0^\circ$ ($c = 2.11$, MeOH). Source: XIAO HUA LAO SHU LE

Acanthus ebracteatus (aerial parts). Ref: 5211.

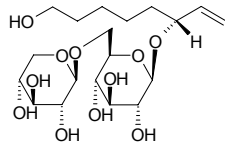


6665 Ebracteatoside C

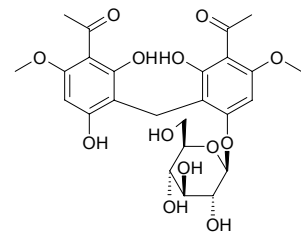
(6*R*)-7-Octene-1,6-diol 6-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranoside C₂₀H₃₆O₁₂ (468.50). Amorphous powder, $[\alpha]_D^{22} = -19.8^\circ$ ($c = 2.62$, MeOH). Source: XIAO HUA LAO SHU LE *Acanthus ebracteatus* (aerial parts). Ref: 5211.

**6666 Ebracteatoside D**

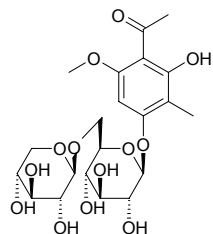
(6*R*)-7-Octene-1,6-diol 6-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranoside C₁₉H₃₄O₁₁ (438.48). Amorphous powder, $[\alpha]_D^{22} = -57.7^\circ$ ($c = 0.35$, MeOH). Source: XIAO HUA LAO SHU LE *Acanthus ebracteatus* (aerial parts). Ref: 5211.

**6667 Ebractelatinoside B**

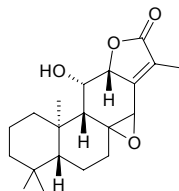
3,3'-Diacetyl-4,4'-dimethoxy-2,2',6,6'-tetrahydroxy diphenyl methane-6'-*O*- β -*D*-glucopyranoside C₂₅H₃₀O₁₃ (538.51). Yellowish amorphous powder, mp 260–261°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 678.

**6668 Ebractelatinoside C**

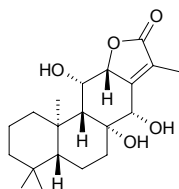
2,4-Dihydroxy-6-methoxy-3-methyl acetophenone 4-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₂₁H₃₀O₁₃ (490.47). White amorphous powder, mp 198°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 678.

**6669 Ebracteolatanolide A**

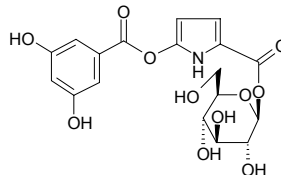
C₂₀H₂₈O₄ (332.44). White acicular crystals, mp 210°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 404.

**6670 Ebracteolatanolide B**

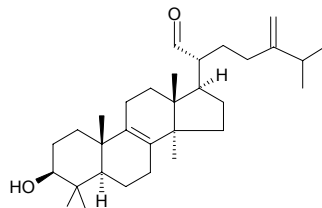
C₂₀H₃₀O₅ (350.46). White acicular crystals, mp 218°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 404.

**6671 Ebracteolatinoside A**

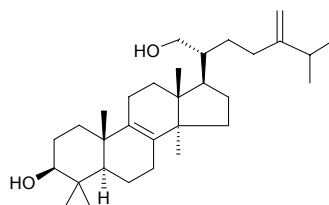
C₁₈H₁₉NO₁₁ (425.35). Sallow powder, mp 160°C. Source: YUE XIAN DA JI *Euphorbia ebracteolata*. Ref: 820.

**6672 Eburical**

C₃₁H₅₀O₂ (454.74). Source: A LI HONG *Fomes officinalis*. Ref: 6.

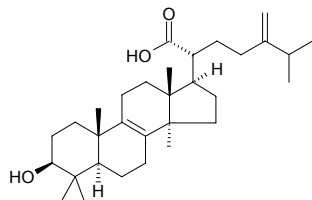
**6673 Eburicodiol**

C₃₁H₅₂O₂ (456.76). Source: A LI HONG *Fomes officinalis*. Ref: 6.

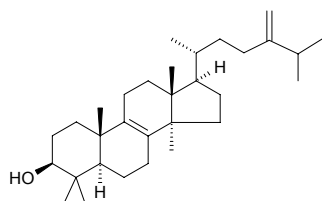


6674 Eburicoic acid

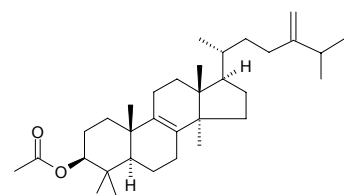
$C_{31}H_{50}O_3$ (470.74). mp 292~293°C. Source: A LI HONG *Fomes officinalis*, FU LING *Poria cocos*. Ref: 2.

**6675 Eburicol**

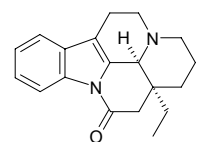
[6890-88-6] $C_{31}H_{52}O$ (440.76). mp 158~159°C. Source: A LI HONG *Fomes officinalis*. Ref: 6.

**6676 Eburicyl acetate**

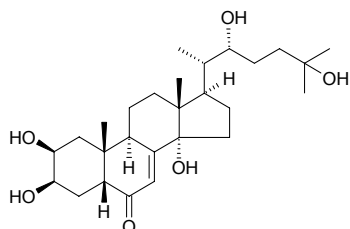
$C_{33}H_{54}O_2$ (482.80). mp 142~143°C. Source: A LI HONG *Fomes officinalis*. Ref: 6.

**6677 Eburnamonine**

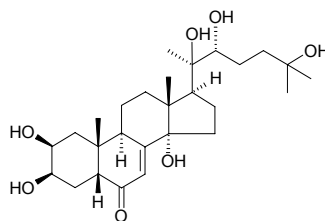
[4880-88-0] $C_{19}H_{22}N_2O$ (294.40). Pharm: Vasodilator. Source: MAN CHANG CHUN HUA *Vinca minor*. Ref: 658.

**6678 Ecdysone**

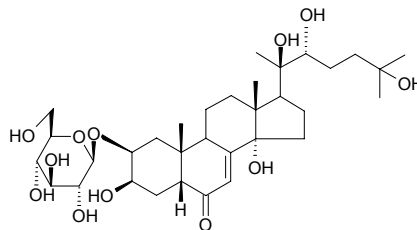
α -Ecdysone [3604-87-3] $C_{27}H_{44}O_6$ (464.65). mp 242°C. Pharm: Insect ecdysone (badly inhibits growth of ovary in juvenile female fly). Source: BAI JIANG CAN *Bombyx mori* (in 1954, the compound was first isolated from the animal by A. Butenandt, et al.)^[5505], DA HUA JIAN QIU LUO *Lychnis fulgens*, DUO ZU JUE *Polypodium vulgare*, LUO YAN CAO *Lemmaphyllum microphyllum*, OU ZHOU JUE *Pteridium aquilinum*, SHUI LONG GU *Polypodium niponicum*, XIAO WU MAO JUE *Blechnum minus*, XIAO YE GUAN ZHONG *Matteuccia struthiopteris*, YUAN CAN E *Bombyx mori*, ZI QI *Osmunda japonica*. Ref: 6, 658, 5505.

**6679 Ecdysterone**

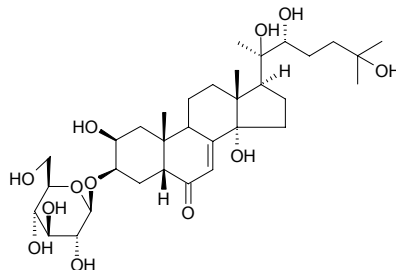
β -Ecdysone $C_{27}H_{44}O_7$ (480.65). mp 237.5~239.5°C. Pharm: Insect ecdysone; low toxin. Source: BAI MAO XIA KU CAO *Ajuga decumbens*, CANG BAI CHENG GOU FENG *Diploclisia glaucescens*, CHUAN NIU XI *Cyathula officinalis* (root: content = 0.057%)^[5508], DUN YE TU NIU XI *Achyranthes aspera* var. *indica* (root: content = 0.018%)^[5508], JI MAO SONG *Podocarpus imbricatus*, LOU LU *Rhaponticum uniflorum* (dried root: mean content of 3 origins = 0.3993%)^[5508], LUO HAN SONG YE *Podocarpus macrophyllum*, LUO YAN CAO *Lemmaphyllum microphyllum*, MA NIU XI *Cyathula capitata* (root: content = 0.046%)^[5508], NIU XI *Achyranthes bidentata* (root: mean content of 13 origins = 0.06%)^[5508], SANG YE *Morus alba*, SHUI LONG GU *Polypodium niponicum*, TU NIU XI *Achyranthes aspera*, WA WEI *Lepisorus thunbergianus*, XIAO YE GUAN ZHONG *Matteuccia struthiopteris*, YAN LING CAO *Trillium tschonoskii*, ZI QI *Osmunda japonica*, ZI SHAN *Taxus cuspidata*. Ref: 2, 6, 194, 580, 582, 658, 660, 5501, 5508.

**6680 20 β -Ecdysterone 2-O- β -D-glucopyranoside**

$C_{33}H_{54}O_{12}$ (642.79). White solid. Source: JIANG XI QING NIU DAN *Tinospora craveniana* (root). Ref: 4557.

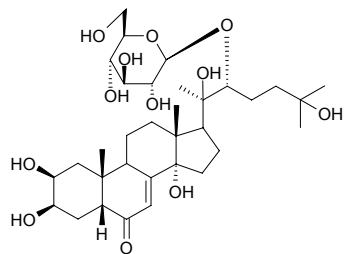
**6681 Ecdysterone-3-O- β -D-glucopyranoside**

$C_{33}H_{54}O_{12}$ (642.79). White powder. Source: LOU LU *Rhaponticum uniflorum*. Ref: 444.

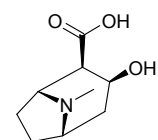


6682 Ecdysterone-22-O-β-D-glucopyranoside

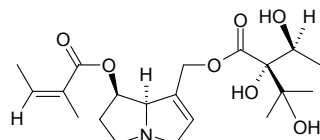
$C_{33}H_{54}O_{12}$ (642.79). White powder, mp 240~242°C. Source: MAO JIAN QIU LUO *Lychnis coronaria*. Ref: 2189.

**6683 Ecgonine**

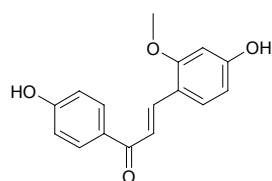
[481-37-8] $C_9H_{15}NO_3$ (185.22). Pharm: Local anesthetic; supertoxic agent. Source: GU KE *Erythroxylum coca*. Ref: 658.

**6684 Echimidine**

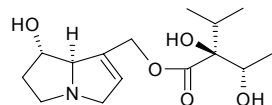
[520-68-3] $C_{20}H_{31}NO_7$ (397.47). Gum, $[\alpha]_D^{+6.6}$ ($c = 0.3$, $CHCl_3$). Pharm: Mutagen (drosophila); toxin (exhibits hepatic toxicity). Source: CHE QIAN YE LAN JI *Echium plantagineum*, DONG FANG XI MEN FEI CAO *Symphytum orientale*, KUAI JING XI MEN FEI CAO *Symphytum tuberosum*, XI MEN FEI CAO *Symphytum officinale* (root: yield = 0.00038%dw)^[3039], XIN FEI CAO *Symphytum caucasicum*. Ref: 658, 3039.

**6685 Echinatin**

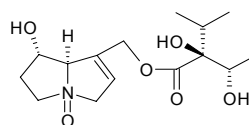
$C_{16}H_{14}O_4$ (270.29). Source: JI GAN CAO *Glycyrrhiza echinata* (cultured cells). Ref: 2431.

**6686 Echinatine**

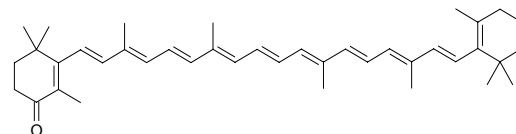
Indicine [480-83-1] $C_{15}H_{25}NO_5$ (299.37). mp 109~110°C, 97~98°C. Pharm: Ganglionic blocker; enhances blood pressure increase caused by adrenaline; toxin (low toxicity in mus with single iv dose, but continuous injection causes liver denaturation). Source: DA WEI YAO *Heliotropium indicum*, GOU SHI HUA *Cynoglossum amabile*, YAO YONG DAO TI HU *Cynoglossum officinale*, XIN FEI CAO *Symphytum caucasicum*. Ref: 6, 658.

**6687 Echinatine N-oxide**

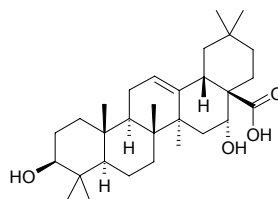
Heliotridine viridiflorate N-oxide [20267-93-0] $C_{15}H_{25}NO_6$ (315.37). Source: YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 6.

**6688 Echinenone**

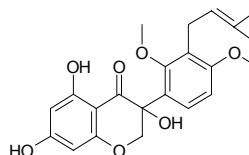
[432-68-8] $C_{40}H_{54}O$ (550.88). mp 192~193°C. Source: HAI XIA *Penaeus orientalis*. Ref: 6.

**6689 Echinocystic acid**

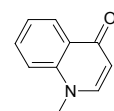
Echinaystic acid $C_{30}H_{48}O_4$ (472.71). Pharm: Cytotoxic inactive (HL-60, $IC_{50} > 100 \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} > 100 \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} > 100 \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} > 100 \mu\text{mol/L}$; HeLa, $IC_{50} > 100 \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $> 100 \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$)^[5015]; apoptosis inducer inactive (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(8.7 \pm 4.7)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$)^[5015]. Source: HUA NAN ZAO JIA *Gleditsia fera* (fruit: content = 0.0224%)^[5508], ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit: mean content = 0.1168%)^[5508]. Ref: 5015, 5508.

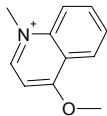
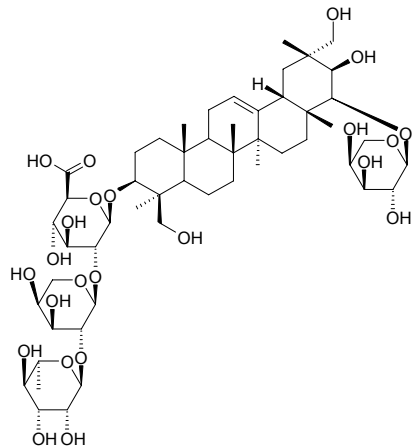
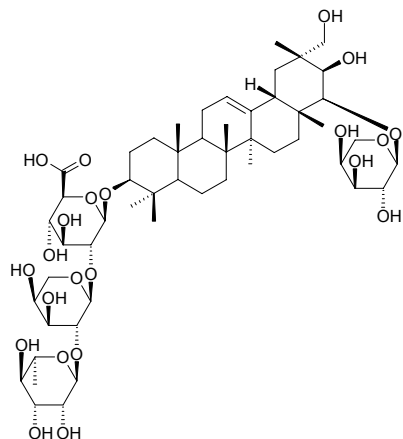
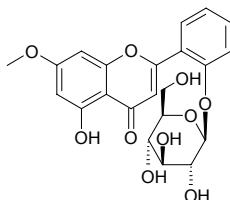
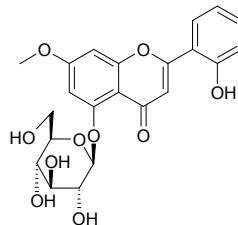
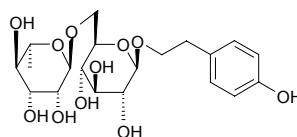
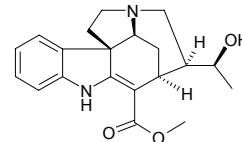
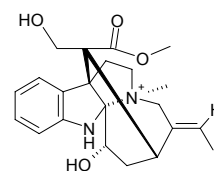
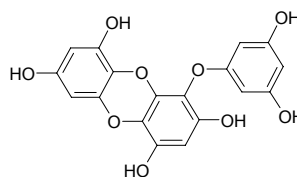
**6690 Echinisoiflavanone**

$C_{22}H_{24}O_7$ (400.43). Pharm: Anti-inflammatory (NO production inhibitor)^[4415]. Source: *Echinosophora koreensis* (root). Ref: 1521, 4415.

**6691 Echinopsine**

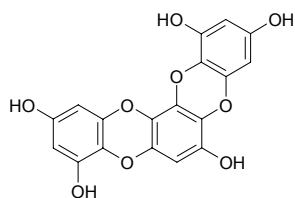
[83-54-5] $C_{10}H_9NO$ (159.19). mp (α) 152°C, (β) 135°C. Pharm: Enhances myocardial contractility and reduces scope of contraction (frog heart *in vitro*, narcosis cat, *in vivo*); enhances tension of intestinal canal (cat, *in vitro*, but inhibits the tension in rbt); antihypertensive (narcosis cat); similar action with strychnine; vasodilator (rbt ear, *in vitro*). Source: XIN JIANG LAN CI TOU *Echinops ritro*, WU ZHU YU *Evodia rutaecarpa* (fruit). Ref: 4, 6, 658, 660, 5031.



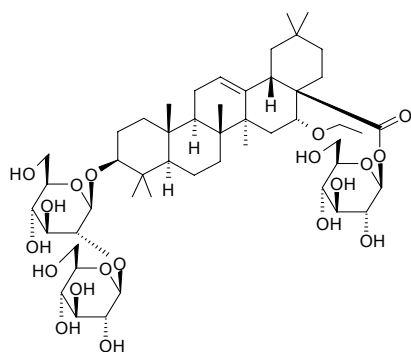
6692 Echinorine[18095-64-2] C₁₁H₁₂NO⁺ (174.22). Source: XIN JIANG LAN CI TOU*Echinops ritro*. Ref: 6, 660.**6693 Echinophoroside A₁**3-*O*- α -L-Rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranosyl kudzuapogenol A 22-*O*- α -L-arabinopyranoside C₅₂H₈₄O₂₃ (1077.24). Source:CHAO XIAN LANG YA CI *Sophora koreensis* (root). Ref: 4056.**6694 Echinophoroside B**3-*O*- α -L-Rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranosyl abrisapogenol C 22-*O*- α -L-arabinopyranoside C₅₂H₈₄O₂₂ (1061.24). Source:CHAO XIAN LANG YA CI *Sophora koreensis* (root). Ref: 4056.**6695 Echioidinin-2'-*O*- β -D-glucopyranoside**C₂₂H₂₂O₁₀ (446.41). Yellow needles (MeOH), mp 276~278°C (dec). Source:*Andrographis rothii* (whole herb). Ref: 4311.**6696 Echioidinin-5-*O*- β -D-glucopyranoside**C₂₂H₂₂O₁₀ (446.41). Pale yellow solid (MeOH), mp 245~246°C, [α]_D²⁸ = -70.1° (c = 0.2, C₅H₅N). Source: *Andrographis neesiana* (whole herb). Ref: 4357.**6697 Echipuroside A**C₂₀H₃₀O₁₁ (446.46). White powder, mp 108~110°C. Source: ZI HUA SONG GUO JU *Echinacea purpurea*. Ref: 2219.**6698 Echitamidine**[38681-90-2] C₂₀H₂₄N₂O₃ (340.43). mp 244°C (dec). Source: PEN JIA SHU *Winchia calophylla*, XIANG PI MU *Alstonia scholaris*. Ref: 270, 1521.**6699 Echitamine**C₂₂H₂₉N₂O₄ (385.49). Hydrate: (C₂₂H₃₀N₂O₅), white crystals, mp 206°C, [α]_D²⁰ = -29° (ethanol); chloride: long acicular crystals (water), mp 295°C, [α]_D¹⁵ = -58°.Pharm: Ganglionic blocker (curariform action); diuretic; antihypertensive (high dose). Source: DAO ZHUANG JI GU CHANG SHAN *Alstonia spatulata*, GAN LAO JI GU CHANG SHAN *Alstonia boonei*, XIANG PI MU *Alstonia scholaris*, ZHUANG GUAN JI GU CHANG SHAN *Alstonia spectabilis*. Ref: 6, 661.**6700 Eckol**[88798-74-7] C₁₈H₁₂O₉ (372.29). Colorless flake crystals (acetone-water), mp 243~244°C; Amorphous powder. Pharm: Antifibrinolysis (α_2 -macroglobulin, IC₅₀ = 2.5 μ g/mL, α_2 -fibrinolysin, IC₅₀ = 1.6 μ g/mL); antithrombotic; tyrosinase inhibitor; antioxidant (DPPH scavenger, IC₅₀ = 11.5 μ mol/L, control Ascorbic acid, IC₅₀ = 10.3 μ mol/L)^[4376]. Source: HEI KUN BU *Ecklonia kurome*, Brown alga *Ecklonia stolonifera*. Ref: 1019, 4376.

6701 Eckstonolol

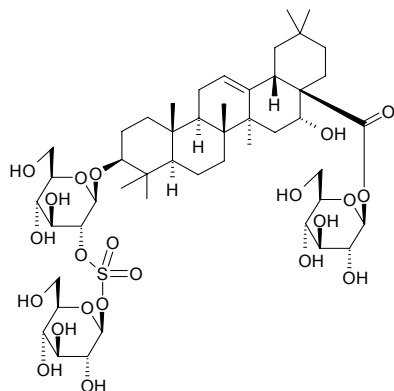
$C_{18}H_{10}O_9$ (370.27). Off-white powder, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.008$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 8.8 \mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 10.3 \mu\text{mol/L}$). **Source:** Brown alga *Ecklonia stolonifera*. **Ref:** 4376.

**6702 Eclalbasaponin XI**

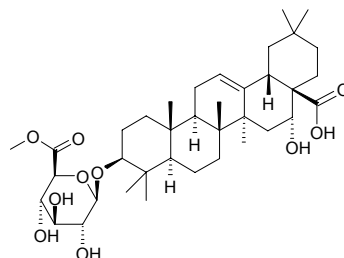
3-*O*-[β -*D*-Glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl]-16 α -ethoxy-olean-12-ene-28-oic acid 28-*O*- β -*D*-glucopyranoside $C_{50}H_{82}O_{19}$ (987.20). White crystals mp 231~233°C. **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 2124.

**6703 Eclalbasaponin XII**

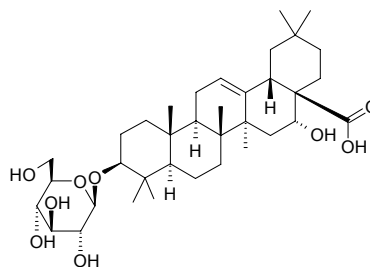
3-*O*-[(2-*O*-Sulfuryl- β -*D*-glucopyranosyl)(1 \rightarrow 2)- β -*D*-glucopyranosyl]-echinocystic acid 28-*O*- β -*D*-glucopyranoside $C_{48}H_{78}O_{22}S$ (1039.21). White amorphous powder, mp 130~131°C. **Pharm:** Induces distortion of mycelial (mold of rice blast). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 2124.

**6704 Eclalbasaponin XIII**

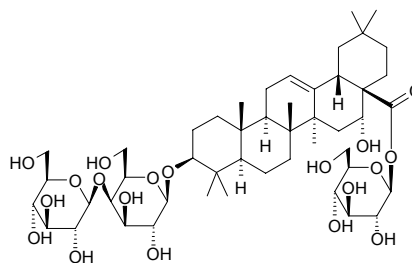
Echinocystic acid 3-*O*-(6'-*O*-methyl)- β -*D*-glucuronopyranoside $C_{37}H_{58}O_{10}$ (662.87). White powdery crystals, mp 195~198°C. **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 2266.

**6705 Ecliptasaponin A**

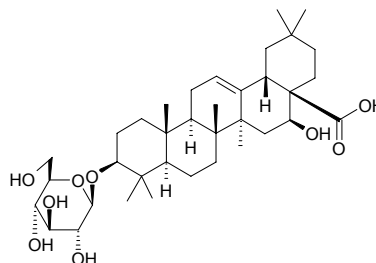
3 β ,16 α -Dihydroxyolean-12-ene-28-oic acid 3-*O*- β -*D*-glucopyranoside $C_{36}H_{58}O_9$ (634.86). White acicular crystals, mp 237~238°C (methanol). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 349.

**6706 Ecliptasaponin B**

3 β -*O*-[(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)-16 α -hydroxyolean-12-ene-28-oic acid-28-*O*- β -*D*-glucopyranoside $C_{48}H_{78}O_{19}$ (959.15). White acicular crystals, mp 220~221°C (methanol). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 349.

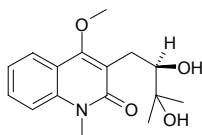
**6707 Ecliptasaponin D**

$C_{36}H_{58}O_9$ (634.86). White powder, mp 240~243°C. **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 392.

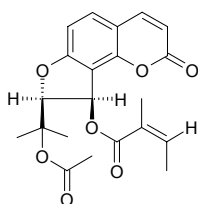


6708 Edulinine

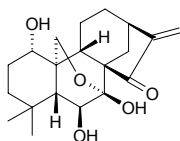
[27495-36-9] C₁₆H₂₁NO₄ (291.35). mp 140–142°C. **Pharm:** Analgesic; CNS depressant; anti-epilepsy (rat, brain hippocampus section CA1, eximine-induced epilepsy); cytotoxic (P₃₈₈ cell line, ED₅₀ = 27.1 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 43.6 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 25.5 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL)^[5405]. **Source:** CHOU CAO *Ruta graveolens*, SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 6, 1625, 1626, 5405.

**6709 Edultin**

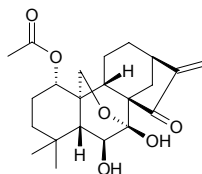
Cnidimine [15591-75-0] C₂₁H₂₂O₇ (386.41). **Pharm:** Reversing MDR of KBV200 cells (obviously)^[2787]. **Source:** SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 6 origins = 0.652%^[5508]). **Ref:** 6, 2787, 5508.

**6710 Effusanin A**

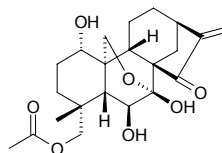
C₂₀H₂₈O₅ (348.44). Colorless needles (EtOH), mp 252–256°C, [α]_D²³ = –53.8° (c = 0.4, EtOH); mp 262–265°C, [α]_D = –76.0° (c = 0.05, EtOH); mp 266–268°C, [α]_D²⁰ = –79.7° (c = 0.35, C₅H₅N). **Pharm:** Cytotoxic (DNA-damaging activity, mutant yeast strain RAD 52Y, IC₁₂ = 20 μg/mL, control Streptonigrin, IC₁₂ = 0.4 μg/mL; wild type yeast strain RAD+, IC₁₂ = 50 μg/mL, Streptonigrin, IC₁₂ = 1.0 μg/mL)^[5348]. **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*, ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. **Ref:** 4067, 5348.

**6711 Effusanin B**

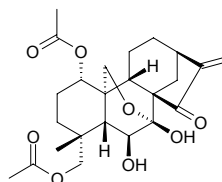
C₂₂H₃₀O₆ (390.48). Colorless prisms (acetone–hexane), mp 254–256°C, [α]_D²³ = –60° (c = 0.1, MeOH); mp 258–260°C, [α]_D = –66.7° (c = 0.027, EtOH); mp 264–267°C, [α]_D²⁰ = –61° (CHCl₃). **Pharm:** Cytotoxic (DNA-damaging activity, mutant yeast strain RAD 52Y, IC₁₂ = 12 μg/mL, control Streptonigrin, IC₁₂ = 0.4 μg/mL; wild type yeast strain RAD+, IC₁₂ = 35 μg/mL, Streptonigrin, IC₁₂ = 1.0 μg/mL)^[5348]. **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*, ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. **Ref:** 4067, 5348.

**6712 Effusanin C**

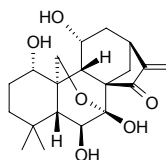
C₂₂H₃₀O₇ (406.48). mp 243–245°C, [α]_D²¹ = –54.0° (c = 0.46, C₅H₅N). **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*. **Ref:** 4067.

**6713 Effusanin D**

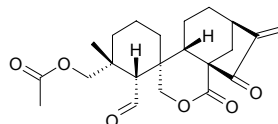
C₂₄H₃₂O₈ (448.52). mp 188–190°C, [α]_D²¹ = –28.2° (c = 0.41, CHCl₃). **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*. **Ref:** 4067.

**6714 Effusanin E**

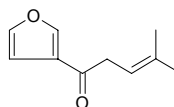
C₂₀H₂₈O₆ (364.44). Colorless prisms (EtOH), mp 231–235°C, mp 240–242°C, [α]_D²³ = –28.2° (c = 0.06, EtOH); [α]_D = –81.3° (c = 0.28, C₅H₅N); mp 250–252°C, [α]_D²¹ = –81.3° (c = 0.20, C₅H₅N). **Pharm:** Cytotoxic (DNA-damaging activity, mutant yeast strain RAD 52Y, IC₁₂ = 95 μg/mL, control Streptonigrin, IC₁₂ = 0.4 μg/mL; wild type yeast strain RAD+, IC₁₂ > 100 μg/mL, Streptonigrin, IC₁₂ = 1.0 μg/mL)^[5348]. **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts), ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. **Ref:** 3808, 4067, 5348.

**6715 Effusin**

C₂₂H₂₈O₆ (388.46). mp 211–213°C, [α]_D³⁵ = +21° (c = 1.12, C₅H₅N). **Source:** KAI ZHAN XIANG CHA CAI *Isodon effusa*. **Ref:** 4067.

**6716 Egomaketone**

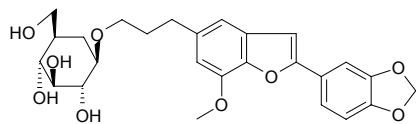
[59204-74-9] C₁₀H₁₂O₂ (164.21). bp 124–126°C/20mmHg. **Source:** BAI SU ZI *Perilla frutescens*, ZI SU GENG *Perilla frutescens* var. *arguta*. **Ref:** 6, 660.



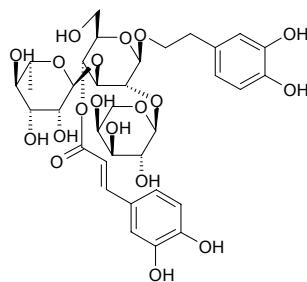
6717 Egonol glucoside

$C_{26}H_{30}O_9$ (486.52). Viscous yellowish oil, $[\alpha]_D^{25} = -15.2^\circ$ ($c = 0.6$, MeOH).

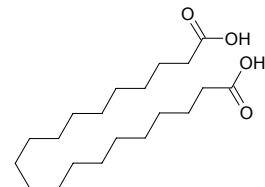
Source: RI BEN AN XI XIANG JING PI *Styrax japonica*. Ref: 2546.

**6718 Ehrenoside**

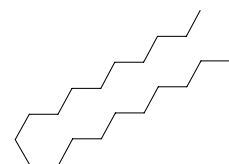
[106323-63-1] $C_{34}H_{44}O_{19}$ (756.72). Amorphous powder, $[\alpha]_D^{23} = -58^\circ$ ($c = 0.16$, MeOH). Pharm: Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 50%, control BHA, 0.5mmol/L, InRt = 30%)^[4191]. Source: SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). Ref: 4191.

**6719 Eicosandioic acid**

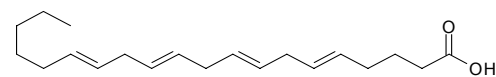
[2424-92-2] $C_{20}H_{38}O_4$ (342.52). mp 122–123°C. Source: LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], QI ZI *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*]. Ref: 6.

**6720 Eicosane**

n-Eicosane [112-95-8] $C_{20}H_{42}$ (282.56). Source: DONG CHONG XIA CAO *Cordyceps sinensis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

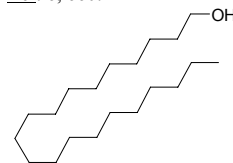
**6721 Eicosanetetraenoic acid**

$C_{20}H_{32}O_2$ (304.48). mp -49.5°C . Source: NIU GAN *Bos taurus domesticus*; *Bubalus bubalis*, ZI CAI *Porphyra tenera*. Ref: 6.

**6722 Eicosanol**

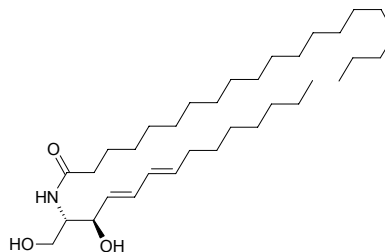
1-Eicosanol [629-96-9] $C_{20}H_{42}O$ (298.56). mp 65.5°C, bp 220°C/3mmHg.

Source: KU CAO *Vallisneria spiralis*, ZI CAO *Lithospermum erythrorhizon*. Ref: 6, 660.

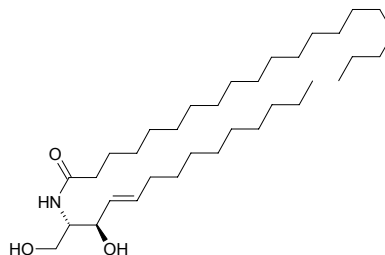
**6723 (4E,6E,2S,3R)-2-N-Eicosanoyl-4,6-tetradecasphingadienine**

$C_{34}H_{65}NO_3$ (535.9). White powder; mp 73.6°C, $[\alpha]_D^{20} = -3.2^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Neurotrophic (neurite outgrowth promoter, measuring neurite length of PC12 cell, 10μmol/L, activity greater than that of 50ng/mL NGF).

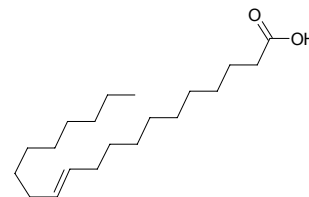
Source: BAI JIANG CAN *Bombyx mori*. Ref: 4684.

**6724 (4E,2S,3R)-2-N-Eicosanoyl-4-tetradecasphinganine**

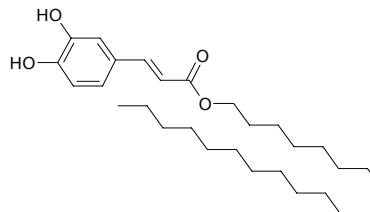
$C_{34}H_{67}NO_3$ (537.92). White powder; mp 81.7°C, $[\alpha]_D^{20} = -4.0^\circ$ ($c = 0.082$, $CHCl_3$). Source: BAI JIANG CAN *Bombyx mori*. Ref: 4684.

**6725 11-Eicosenoic acid**

[5561-99-9] $C_{20}H_{38}O_2$ (310.52). Source: QIANG HUO *Notopterygium incisum*. Ref: 2.

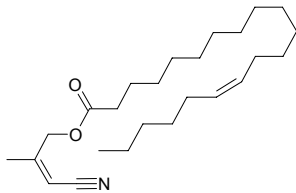
**6726 Eicosyl caffeate**

$C_{29}H_{48}O_4$ (460.70). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2193.

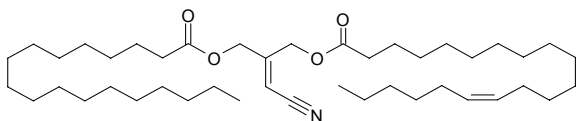


6727 3-O-14,15-Eicosylenoyl-1-cyano-2-methyl-1,2-propene

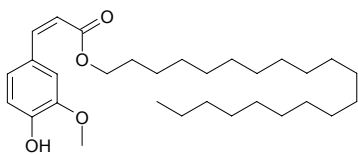
$C_{25}H_{43}NO_2$ (389.63). Colorless wax. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 849.

**6728****3-O-14,15-Eicosylenoyl-4-O-stearoyl-1-cyano-2-oxymethyl-1,2-propene**

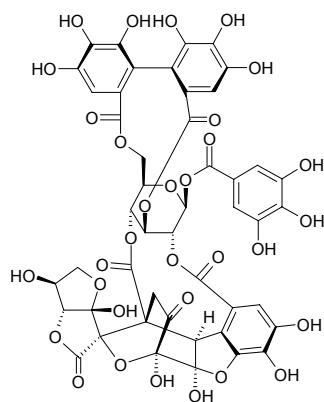
$C_{43}H_{77}NO_4$ (672.10). Colorless wax. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 849.

**6729 Eicosyl ferulate**

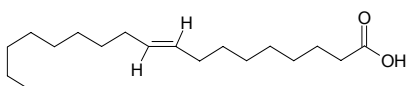
$C_{30}H_{50}O_4$ (474.73). Source: YA MA ZI *Linum usitatissimum*. Ref: 6.

**6730 Elaocarpusin**

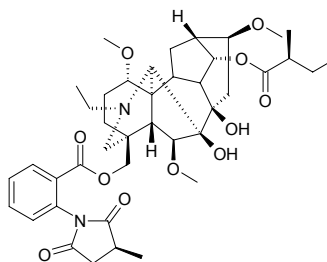
$C_{47}H_{34}O_{32}$ (1110.78). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3094.

**6731 Elaidic acid**

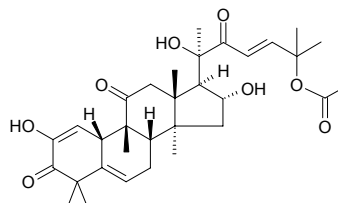
trans-9-Octadecenoic acid [112-79-8] $C_{18}H_{34}O_2$ (282.47). mp 44.5°C. Source: DENG LONG CAO *Physalis peruviana*, HU TAO YE *Juglans regia*. Ref: 6.

**6732 Elanine**

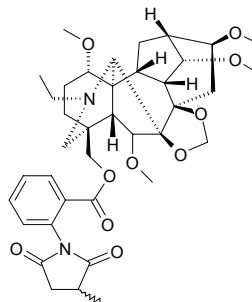
$C_{41}H_{56}N_2O_{11}$ (752.91). Source: HEI SHUI CUI QUE HUA BIAN ZHONG *Delphinium potaninii* var. *juifengshanense* (root). Ref: 4227.

**6733 Elaterin**

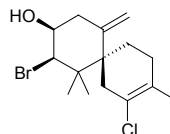
Cucurbitacin [18444-66-1] $C_{32}H_{44}O_8$ (556.70). mp 234°C. Source: GUA DI *Cucumis melo*, SI GUA ZI *Luffa cylindrica*. Ref: 6.

**6734 Elatine**

[26000-16-8] $C_{38}H_{50}N_2O_{10}$ (694.83). mp 233~235°C. Pharm: Ganglionic blocker; muscle relaxant (competitive); toxin. Source: FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], GAO FEI YAN CAO *Delphinium elatum*. Ref: 6, 658.

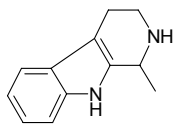
**6735 Elatol**

$C_{15}H_{22}BrClO$ (333.70). Oil, $[\alpha]_D^{24} = +75.3^\circ$ ($c = 0.318$, MeOH). Pharm: Antibacterial (*Clostridium cellobioparum*, MIC = 5µg/disc; *Proteus mirabilis*, MIC = 5µg/disc; *Flavobacterium helmiphilum*, MIC = 10µg/disc; *Chromobacterium violaceum*, *Clostridium fallax*, *Clostridium novyi*, *Clostridium sordellii*, *Escherichia coli*, *Enterobacter aerogenes*, *Shigella flexneri*, *Vibrio cholerae*, *Vibrio parahaemolyticus*, *Vibrio vulnificus*, MIC = 15~30µg/disc)^[5183]. Source: GAO AO DING ZAO *Laurencia elata* (the compound was isolated from the plant by J.J.Sions, et al. in 1974)^[5505], LUE DA AO DING ZAO *Laurencia majuscula*. Ref: 5183, 5505.

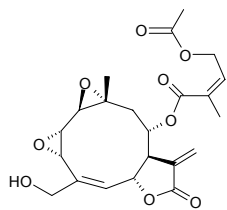


6736 Eleagnine

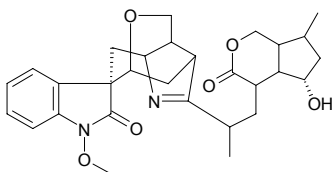
Tetrahydroharman [525-40-6] C₁₂H₁₄N₂ (186.26). mp 180.0–181.5°C; 178–180°C. Source: LU ZHU GEN *Arundo donax*, SHA ZAO SHU PI *Elaeagnus angustifolia*. Ref: 6.

**6737 Eleganin**

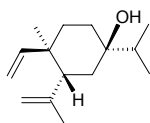
[57498-84-7] C₂₂H₂₆O₉ (434.45). mp 142–143°C, [α]_D²² = –108°. Pharm: Antineoplastic; cytotoxic. Source: HUA LI SHE BIAN JU *Liatris elegans*, CU CAO SHE BIAN JUJU *Liatris scabra*. Ref: 658.

**6738 Elegansamine**

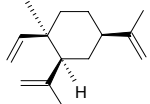
[120090-58-6] C₂₉H₃₆N₂O₆ (508.62). mp 172–173°C. Source: GOU WEN *Gelsemium elegans*. Ref: 13.

**6739 Elema-1,3-dien-7-ol**

(+)-(1R,3R,4R)-4-Ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-cyclohexanol C₁₅H₂₆O (222.37). Colorless oil. Source: YING ZHI YE TAI *Lepidozia vitrea* (essential oil). Ref: 5209.

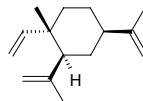
**6740 (-)-cis-β-Elemene**

C₁₅H₂₄ (204.36). Colorless oil. Source: BO BAN HE YE TAI *Scapania undulata* (essential oil). Ref: 3752.

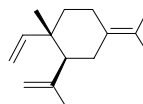
**6741 β-Elemene**

C₁₅H₂₄ (204.36). bp 117–124°C/15.5mmHg. Pharm: Cytotoxic (leukemia cell, IC₅₀ = 33.5 μg/mL); antineoplastic (animal model, EAC ascites tumour, ARS ascites tumour, YAS ascites tumour, S₁₈₀ ascites tumour). Source: BING PIAN *Dryobalanops aromatica*, CANG ZHU *Attractylodes lancea*, DONG LING CAO *Rabdosia rubescens*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*],

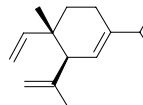
HONG CHAI HU *Bupleurum scorzonerifolium*, HUANG HUA HAO *Artemisia annua*, HUO XIANG *Agastache rugosus*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *Tosana*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 5, 660, 3932, 5501.

**6742 γ-Elemene**

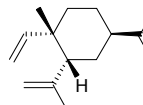
[30824-67-0] C₁₅H₂₄ (204.36). Source: HUANG HUA HAO *Artemisia annua*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHENG JIANG *Zingiber officinale*. Ref: 2, 660.

**6743 δ-Elemene**

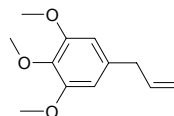
[20307-84-0] C₁₅H₂₄ (204.36). bp 107°C/10mmHg. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**6744 cis-β-Elemene diastereomer**

C₁₅H₂₄ (204.36). Colorless oil. Source: BO BAN HE YE TAI *Scapania undulata* (essential oil). Ref: 3752.

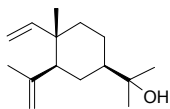
**6745 Elemicin**

[487-11-6] C₁₂H₁₆O₃ (208.26). bp 144–147°C/10mmHg. Pharm: Anesthetic (mus, rbt, cat, and dog, iv); platelet aggregation inhibitor (rbt). Source: BAN KE HU JIAO *Piper banksii*, CHANG XIANG MAO *Cymbopogon procerus*, DU HENG *Asarum forbesii*, GAO DA HU JIAO *Macropiper excelsum*, HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum* (whole herb: content scope = 0.011%–0.069%)^[5501], NAN HE SHI *Daucus carota*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SHUANG YE XI XIN *Asarum caulescens*, SI JING JIE BA DOU *Croton nepetaefolius*, XI XIN *Asarum sieboldii*, YE XIANG MAO *Cymbopogon goeringii*, YUN NAN ZHANG *Cinnamomum glanduliferum*, ZHAO WA GAN LAN *Canarium commune*. Ref: 2, 658, 660, 2537, 5501.

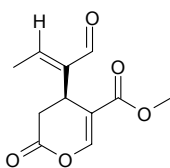


6746 Elemol

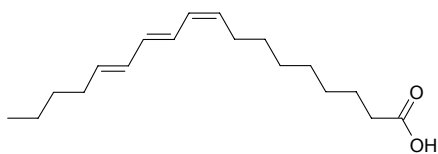
[32142-08-8] C₁₅H₂₆O (222.37). mp 52.5~53.5°C. Source: BEI CANG ZHU *Atractylodes chinensis*, CANG ZHU *Atractylodes lancea*, HOU PO *Magnolia officinalis*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], SHENG JIANG *Zingiber officinale*. Ref: 2, 660.

**6747 Elenolide**

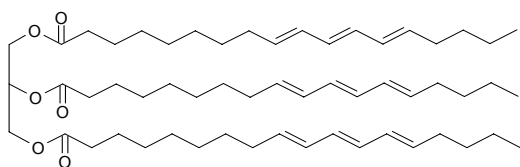
[24582-91-0] C₁₁H₁₂O₅ (224.22). Acicular crystals (hot ethanol), mp 155.2°C, [α]_D²⁰ = +360° (chloroform). Pharm: Antihypertensive. Source: YOU GAN LAN *Olea europaea*. Ref: 661.

**6748 α-Eleostearic acid**

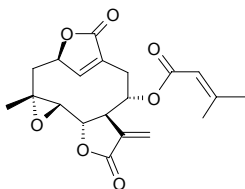
[506-23-0] C₁₈H₃₀O₂ (278.44). Source: TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*]. Ref: 658.

**6749 α-Eleostearin**

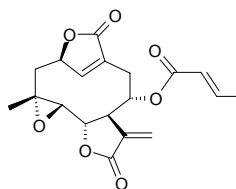
C₅₇H₉₂O₆ (873.37). Source: TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*]. Ref: 6.

**6750 Elephantin**

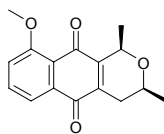
[21899-50-3] C₂₀H₂₂O₇ (374.39). mp 242~244°C, [α]_D²⁷ = -380°. Pharm: Antineoplastic (rat, W₂₅₆, 50~100mg/kg; mus, P₃₈₈); cytotoxic (KB, ED₅₀ = 0.28~2.00μg/mL); plant growth regulator. Source: GAO DI DAN CAO *Elephantopus elatus*. Ref: 661.

**6751 Elephantopin**

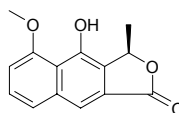
[13017-11-3] C₁₉H₂₀O₇ (360.37). mp 262~264°C, [α]_D²⁵ = -398°. Pharm: Antineoplastic (rat, W₂₅₆, 50~100mg/kg; mus, P₃₈₈); cytotoxic (KB, ED₅₀ = 0.28~2.00μg/mL). Source: GAO DI DAN CAO *Elephantopus elatus*. Ref: 661.

**6752 Eleutherin**

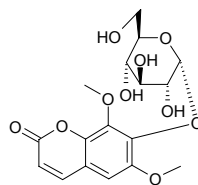
[478-36-4] C₁₆H₁₆O₄ (272.30). Orange crystals, mp 173~175°C, [α]_D³⁴ = 345.6° (chloroform). Pharm: Antibacterial (*Staphylococcus aureus*, *Mycobacterium smegmatis*); increases coronary flow. Source: XIAO HONG SUAN *Eleutherine americana*. Ref: 661.

**6753 Eleutherol**

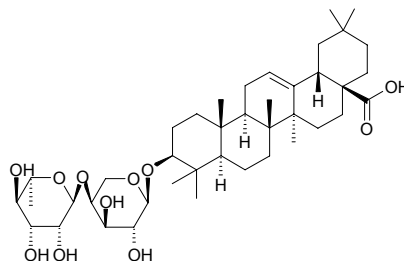
[480-00-2] C₁₄H₁₂O₄ (244.25). Pharm: Increases coronary flow. Source: XIAO HONG SUAN *Eleutherine americana*. Ref: 658.

**6754 Eleutheroside B₁**

7-Hydroxy-6,8-dimethoxycoumarin glucoside [16845-16-2] C₁₇H₂₀O₁₀ (384.34). mp 218°C. Pharm: Increases the weight and RNA content of both prostate and testis (male mus, orl, 5~7mg/(kg·d)). Source: WU JIA PI *Acanthopanax gracilistylus*. Ref: 6, 658.

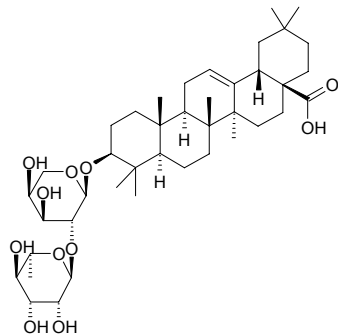
**6755 Eleutheroside I**

Mubenin B; Raddeanin B [35790-94-4] C₄₁H₆₆O₁₁ (734.98). mp 234~235°C (dec), mp 237~240°C, [α]_D²⁴ = +12° (c = 0.5, MeOH). Pharm: Hemolytic. Source: CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DUO BEI YIN LIAN HUA *Anemone raddeana* (root: yield = 0.0043%), NA TENG GUO *Stauntonia hexaphylla*. Ref: 6, 660, 900, 1312.

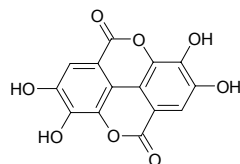


6756 Eleutheroside K

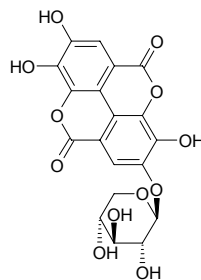
β -Hederin; Oleanolic acid 3-*O*- α -L-rhamnopyranosyl (1 \rightarrow 2)- α -L-arabinopyranoside [35790-95-5] C₄₁H₆₆O₁₁ (734.98). White needles, mp 221~223°C; White amorphous powder, $[\alpha]_D^{23} = +10.9^\circ$ ($c = 0.55$, MeOH). **Pharm:** Cytotoxic (hmn gastric carcinoma cells BGC823, hmn myelocytic leukemia cell K562, obvious effect)^[4812]; hemolytic. **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (seed), CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DUO BEI YIN LIAN HUA *Anemone raddeana*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, YANG CHANG CHUN TENG *Hedera helix*. **Ref:** 6, 658, 660, 2240, 4812, 4904.

**6757 Ellagic acid**

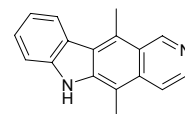
2,3,7,8-Tetrahydroxy[1]benzopyrano[5,4,3-*cde*][1]benzopyran-5,7-dione [476-66-4] C₁₄H₆O₈ (302.20). Yellow, mp > 360°C. **Pharm:** Hemostatic; uterine stimulant; antimutagenic (caused by aromatic hydrocarbons); antiplasmodial^[5361]; ACE inhibitor (IC₅₀ = 400 μmol/L, control Lisinopril, IC₅₀ = 1 nmol/L); NEP inhibitor (IC₅₀ > 500 μmol/L, control Phosphoramidon, IC₅₀ = 9 nmol/L); APN inhibitor inactive; antibacterial (*Erwinia carotovora*, IZD = 15mm/100 μg, control Quercetin sulfate, IZD = 21mm/10 μg; *Staphylococcus aureus*, IZD = 0mm/100 μg, Quercetin sulfate, IZD = 14mm/10 μg; *Corynebacterium accolens*, IZD = 12mm/100 μg, Quercetin sulfate, IZD = 28mm/10 μg)^[5250]; antifungal (*Candida albicans*, IZD = 10mm/100 μg, control Nystatin, IZD = 11mm/20 μg)^[5250]; xanthine oxidase inhibitor (IC₅₀ = 2.8 μg/mL, IC₅₀ = 9.3 μmol/L; control Quercetin, IC₅₀ = 3.4 μg/mL, IC₅₀ = 10 μmol/L)^[5250]. **Source:** DA FEI YANG CAO *Euphorbia hirta*, DA YE KU NUO NI *Cunonia macrophylla* (leaf), HE ZI *Terminalia chebula*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HUA XIANG SHU YE *Platycarya strobilacea*, MANG GUO *Mangifera indica*, NING MENG AN YE *Eucalyptus citriodora*, QIAN QU CAI *Lythrum salicaria*, SHU ZHANG LAO GUAN CAO *Geranium sibiricum*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, *Tristaniopsis calobuxus* (bark), YUN NAN FENG CHE ZI *Combretum yunnanensis* (branch)^[4693], occurs in many plants (widely distributed in higher plants: found by Bate-Smith in 75 genera of dicotyledons and in only one monocotyledonous sp. *Hypoxis filiformis* in family Amaryllidaceae). **Ref:** 6, 71, 658, 1521, 4693, 5034, 5250, 5361.

**6758 Ellagic acid-4- β -D-xylopyranoside**

C₁₉H₁₄O₁₂ (434.12). Pink. **Pharm:** Antibacterial (*Erwinia carotovora*, IZD = 12mm/100 μg, control Quercetin sulfate, IZD = 21mm/10 μg; *Staphylococcus aureus*, IZD = 0mm/100 μg, Quercetin sulfate, IZD = 14mm/10 μg; *Corynebacterium accolens*, IZD = 0mm/100 μg, Quercetin sulfate, IZD = 28mm/10 μg); antifungal (*Candida albicans*, IZD = 0mm/100 μg, control Nystatin, IZD = 11mm/20 μg); xanthine oxidase inhibitor (IC₅₀ = 2.1 μg/mL, IC₅₀ = 4.7 μmol/L; control Quercetin, IC₅₀ = 3.4 μg/mL, IC₅₀ = 10 μmol/L). **Source:** DA YE KU NUO NI *Cunonia macrophylla* (leaf). **Ref:** 5250.

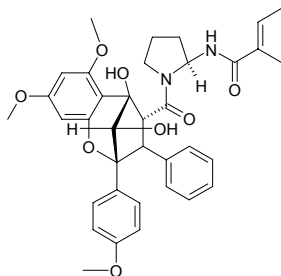
**6759 Ellipticine**

[519-23-3] C₁₇H₁₄N₂ (246.31). Yellowish acicular crystals (ethyl acetate), mp 311~315°C (dec). **Pharm:** cytotoxic (*in vitro*, Lu1, IC₅₀ = 0.02 μg/mL (0.08 μmol/L), LNCaP, IC₅₀ = 0.8 μg/mL (3.25 μmol/L), Col2, IC₅₀ = 0.3 μg/mL (1.22 μmol/L), HUVEC, IC₅₀ = 0.09 μg/mL (0.37 μmol/L), KB, IC₅₀ = 0.04 μg/mL (0.16 μmol/L), HOG.R5, IC₅₀ = 0.02 μg/mL (0.08 μmol/L))^[3009]; cytotoxic (*in vitro*, Lu1, ED₅₀ = 0.02 μg/mL; Col2, ED₅₀ = 0.3 μg/mL; KB, ED₅₀ = 0.04 μg/mL; LNCaP, ED₅₀ = 0.8 μg/mL; KB in absence of 1 μg/mL vinblastine, ED₅₀ = 0.3 μg/mL; KB in presence of 1 μg/mL vinblastine, ED₅₀ = 0.2 μg/mL; BC-1, ED₅₀ = 0.5 μg/mL)^[3479]; cytotoxic (BC, IC₅₀ = 0.3 μg/mL; KB, IC₅₀ = 0.3 μg/mL)^[3858]; cytotoxic (Vero cells, IC₅₀ = (0.4±0.1) μg/mL, colorimetric method (P. Skehan, et al., J Natl Cancer Inst 1990, 82, 1107-1112))^[4078]; cytotoxic (A549, IC₅₀ = 0.8 μmol/L; Col2, IC₅₀ = 1.6 μmol/L; SNU638, IC₅₀ = 1.6 μmol/L; HT1080, IC₅₀ = 1.2 μmol/L)^[4081]; cytotoxic (hmn small cell lung cancer NCI-H187 cell line, IC₅₀ = (0.35±0.15) μg/mL)^[5061]; cytotoxic (NCI-H187, IC₅₀ = 0.2~0.3 μg/mL; KB, IC₅₀ = 0.2~0.3 μg/mL; BC-1, IC₅₀ = 0.2~0.3 μg/mL; Vero cell, IC₅₀ = 0.2~0.3 μg/mL)^[5062]; cytotoxic (KB, ED₅₀ = 0.10 μg/mL)^[5075]; cytotoxic (KB, EC₅₀ = 0.3 μg/mL; BC, EC₅₀ = 0.3 μg/mL)^[5092]; cytotoxic (Col2, IC₅₀ = 0.3 μg/mL; P₃₈₈, IC₅₀ = 0.1 μg/mL)^[5400]; cytotoxic (KB cells, IC₅₀ = (0.3±0.1) μg/mL; BC, IC₅₀ = (0.3±0.1) μg/mL)^[5435]; cytotoxic (P₃₈₈, ED₅₀ = 0.61 μg/mL; KB, ED₅₀ = 0.54 μg/mL; Col2, ED₅₀ = 0.60 μg/mL; Lu1, ED₅₀ = 0.61 μg/mL; BCA-1, ED₅₀ = 0.52 μg/mL)^[5478]; antineoplastic (L₁₂₁₀, EAC cells, liver cancer in rat, P₃₈₈, S₁₈₀)^[661]; antitrypanosomal (*Trypanosoma cruzi*)^[661]; hemolytic (animal model)^[661]. **Source:** GU CHENG MEI GUI SHU *Ochrosia elliptica*, WEI BAI BAI JIAN MU *Aspidosperma subincanum*. **Ref:** 661, 3009, 3479, 3858, 4078, 4081, 5061, 5062, 5075, 5092, 5400, 5435, 5478, 5507.

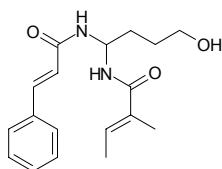


6760 Elliptifoline

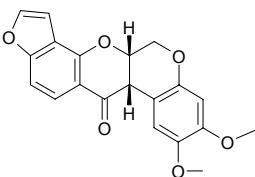
$C_{36}H_{40}N_2O_8$ (628.73). White powder, mp 184~185°C, $[\alpha]_D^{22} = -88.9^\circ$ ($c = 0.6$, $CHCl_3$). **Pharm:** Cytotoxic (A549, $ED_{50} = 18.9\mu g/mL$; HL-60, $ED_{50} > 50\mu g/mL$; HT29, $ED_{50} > 50\mu g/mL$; KB, $ED_{50} > 50\mu g/mL$; P388, $ED_{50} = 3.41\mu g/mL$). **Source:** DA YE SHU LAN *Aglaia elliptifolia* (leaf: yield = 0.00071%dw). **Ref:** 3031.

**6761 Elliptinol**

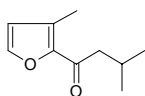
$C_{18}H_{24}N_2O_3$ (316.4). White powder, mp 162~163°C, $[\alpha]_D^{22} = +38.6^\circ$ ($c = 0.05$, $CHCl_3$). **Pharm:** Cytotoxic (A549, $ED_{50} > 50\mu g/mL$; HL-60, $ED_{50} = 32.1\mu g/mL$; HT29, $ED_{50} > 50\mu g/mL$; KB, $ED_{50} > 50\mu g/mL$; P388, $ED_{50} = 3.62\mu g/mL$). **Source:** DA YE SHU LAN *Aglaia elliptifolia* (leaf: yield = 0.00005%dw). **Ref:** 3031.

**6762 Elliptone**

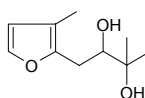
$C_{20}H_{16}O_6$ (352.35). **Pharm:** Anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100 mol ratio/32pmol TPA, EBV-EA positive cells = 76.8% viability, positive control β -Carotene, EBV-EA positive cells = 82.7% viability). **Source:** YU TENG *Derris trifoliata* (stem). **Ref:** 4982.

**6763 Elsholtzia ketone**

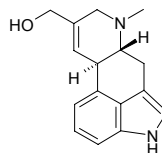
[488-05-1] $C_{10}H_{14}O_2$ (166.22). bp 210°C. **Source:** BAN BIAN SU *Elsholtzia ciliata*. **Ref:** 6.

**6764 Elsholtzidiol**

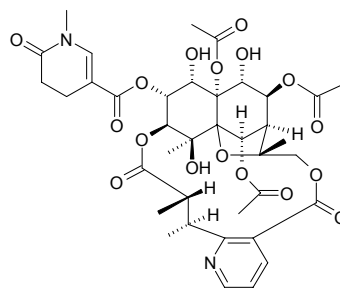
[28666-20-8] $C_{10}H_{16}O_3$ (184.24). mp 58~59°C. **Source:** XIANG RU *Elsholtzia splendens*. **Ref:** 6.

**6765 Elymoclavine**

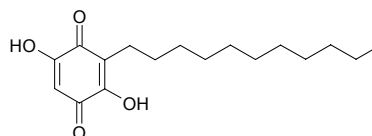
[548-43-6] $C_{16}H_{18}N_2O$ (254.33). mp 250~252°C. **Pharm:** Inhibits release of galactin; CNS stimulant. **Source:** MAI JIAO *Claviceps purpurea*, QIAN NIU *Zi Pharbitis nil*. **Ref:** 6, 658.

**6766 Emarginatine**

$C_{38}H_{46}N_2O_{17}$ (802.79). **Pharm:** Cytotoxic (KB $ED_{50} = 1.7mg/L$, Colon205 $ED_{50} = 4.1mg/L$). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2511.

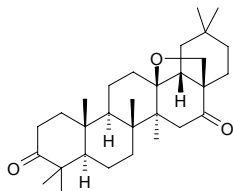
**6767 Embelin**

2,5-Dihydroxy-3-undecyl-2,5-cyclohexadiene-1,4-dione [550-24-3] $C_{17}H_{26}O_4$ (294.39). Orange crystals (MeOH or hexane-EtOH), mp 145~146°C, mp 143°C. **Pharm:** Analgesic; anti-fertility agent (rat); anti-inflammatory; antipyretic; anthelmintic (teniafuge); DPPH free radical scavenger ($IC_{50} = (23.3\pm 0.5)\mu mol/L$, control Trolox, $IC_{50} = (25.4\pm 0.8)\mu mol/L$)^[4244]; antineoplastic (rat, autochthonous fibrosarcomas induced by methylcholanthrene, prolonged the survival time of the animals)^[5369]; cytotoxic (*in vitro*, fibrosarcoma cell line, concentration-dependent decrease in thymidine uptake and glutathione levels of the tumor cells)^[5369]. **Source:** AI ZI JIN NIU *Ardisia humilis*, BA BEI SUAN TENG ZI *Embelia barbeyana*, CHI YE TIE ZI *Myrsine semiserrata*, CU YE MAI MI HUA SHU *Rapanea neurophylla*, CU ZHUANG SUAN TENG ZI *Embelia robusta*, LA ZHU GUO *Aegiceras corniculatum*, MA GUI HUA *Embelia oblongifolia*, SAN HUA MI HUA SHU *Rapanea umbellata*, TIE ZI *Myrsine africana*, WEI LING XIAN *Clematis chinensis*, XIAN SUAN QIANG *Embelia ribes*, XIAO TOU TIE ZI *Myrsine capitellata*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), ZHU SHA GEN *Ardisia crenata*, ZI JIN NIU *Ardisia japonica*, *Connarus ritchiei*, *Embelia kilimandscharica*, *Embelia tsjersium-cottam*, *Rapanea* sp. **Ref:** 6, 658, 1521, 4244, 5369.

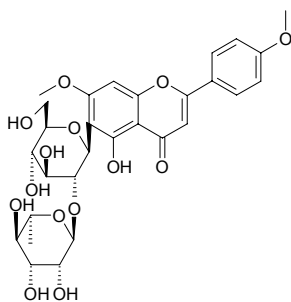


6768 Embelinone

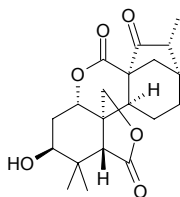
3,16-dioxo-13 β -17-methyleneoxyoleanane C₃₀H₄₆O₃ (454.70). Clear needles, mp 257~259°C [α]_D²⁵ = -4° (c = 0.6, CHCl₃). Source: KEN NI YA XIAN SUAN QIANG *Embelia schimperi*. Ref: 2058.

**6769 Embinin**

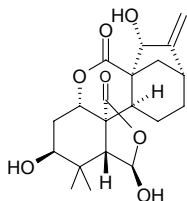
[52589-13-6] C₂₉H₃₄O₁₄ (606.59). mp 181°C. Pharm: Xanthinoxidase inhibitor (50 μ g/mL, InRt = 22.8 %); aldose reductase inhibitor (rat eye lens, 10 μ mol/L InRt = 12.7%). Source: HU DIE HUA *Iris japonica*, YUAN WEI *Iris tectorum*. Ref: 6, 1632, 1631.

**6770 Ememodin**

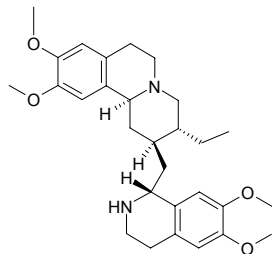
C₂₀H₂₆O₆ (362.43). mp 237~239°C, [α]_D¹⁷ = -131° (c = 0.0498, EtOH). Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**6771 Ememogin**

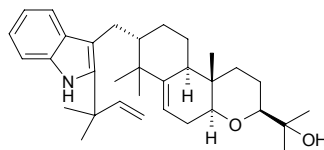
C₂₀H₂₆O₇ (378.43). mp > 300°C, [α]_D²⁴ = -145.8° (c = 0.20, C₅H₅N). Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**6772 Emetine**

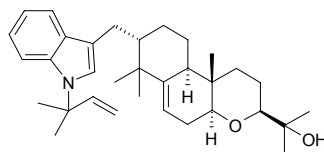
Cephaeline methylether [483-18-1] C₂₉H₄₀N₂O₄ (480.65). White powder, mp 74°C, turning yellow if exposed or heated, [α]_D²⁰ = -50° (c = 2, chloroform), easily soluble in ethanol, acetic ester, chloroform, ether, insoluble in water.^[5507] Pharm: Antiamebic; antineoplastic; antiviral; antitussive (dispels phlegm); emetic; LD (hmn) = 10~20mg/kg. Source: TU GEN *Cephaelis ipecacuanha* (root: content scope = 2%~4%)^[5507], YANG CHANG CHUN TENG *Hedera helix*. Ref: 658, 661, 5507.

**6773 Emindole PA**

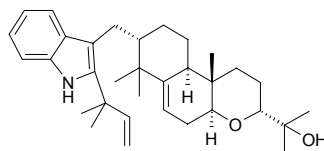
C₃₃H₄₇NO₂ (489.75). Colorless amorphous powder. Source: ZI LUO KE BAO *Emericella purpurea*. Ref: 1101.

**6774 Emindole PB**

C₃₃H₄₇NO₂ (489.75). Colorless amorphous powder. Source: ZI LUO KE BAO *Emericella purpurea*. Ref: 1101.

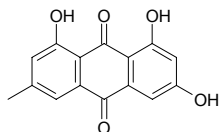
**6775 Emindole PC**

C₃₃H₄₇NO₂ (489.75). Colorless crystalline powder (ether), mp 238~240°C. Source: ZI LUO KE BAO *Emericella purpurea*. Ref: 1101.

**6776 Emodin**

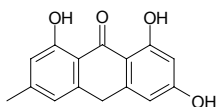
1,3,8-Trihydroxy-6-methylantraquinone [518-82-1] C₁₅H₁₀O₅ (270.24). Orange red prismatic crystals, mp 250~257°C. Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus influenzae*, *Bacillus diphtheriae*, *Bacillus subtilis*, *Bacillus paratyphosus*, *Coccus catarrhal*, and α -Streptococcus); antineoplastic (mus, B16 melanoma BL, 50mg/(kg·d), InRt = 76%, mus, mammary cancer and EAC); antifungal (*Trichophyton interdigitali*, *Microsporum* sp.); antispasmodic; antispirochetic; antitussive; cytotoxic (Walker sarcoma, P₃₈₈);

diuretic; antihypertensive; inhibits coronal wart growth in potato flower tray; antitrypanosomal (*Trypanosoma brucei*, $IC_{50} = (18.1 \pm 4.2) \mu\text{g/mL}$, control Melarsoprol, $IC_{50} = (0.0015 \pm 0.0009) \mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} = (19.8 \pm 2.4) \mu\text{g/mL}$, control Benznidazole, $IC_{50} = (0.39 \pm 0.15) \mu\text{g/mL}$)^[5008]; antileishmanial (*Leishmania donovani*, $IC_{50} = (20.5 \pm 0.5) \mu\text{g/mL}$, control Miltefosine, $IC_{50} = (0.23 \pm 0.03) \mu\text{g/mL}$)^[5008]; antimalarial (*Plasmodium falciparum*, $IC_{50} = (9.7 \pm 1.2) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.055 \pm 0.02) \mu\text{g/mL}$, control Artemisinin, $IC_{50} = (0.0011 \pm 0.0006) \mu\text{g/mL}$)^[5008]; cytotoxic (L6, $IC_{50} = (20.3 \pm 2.6) \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075 \mu\text{g/mL}$)^[5008]; cytotoxic (*in vitro*, Calu1, $IC_{50} = (6.25 \pm 2.9) \mu\text{mol/L}$; HeLa, $IC_{50} = (15.6 \pm 4.2) \mu\text{mol/L}$; K562, $IC_{50} > 100 \mu\text{mol/L}$; Raji, $IC_{50} = (43.8 \pm 7.3) \mu\text{mol/L}$; Vero, $IC_{50} = (40 \pm 1.7) \mu\text{mol/L}$; Wish, $IC_{50} = (28.8 \pm 1.9) \mu\text{mol/L}$, 1,3,8-trihydroxy for anthraquinone plays a significant role in the cytotoxic activity)^[3057]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]; antioxidant inactive (DPPH radical scavenger assay)^[5232]; antioxidant inactive (DPPH radical scavenger, $IC_{50} > 100 \mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = 3.9 \mu\text{g/mL}$)^[4711]. **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], CHAO XIAN YIN YANG HUO *Epimedium koreanum*, CHI MA *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], DA HUANG *Rheum officinale*, DONG FANG WEI SI MU *Vismia orientalis* (stem cortex), DUN YE JUE MING *Cassia obtusifolia* (ripe seed: mean content = 0.011%)^[5508], GANG BAN GUI GEN *Polygonum perfoliatum*, HE SHOU WU *Polygonum multiflorum* (dried tuberoid (raw): content scope of 9 batch samples = 0.0026%–0.132%, mean content = 0.044%)^[5508], HE SHOU WU *Polygonum multiflorum* (dried tuberoid (preparing): content scope of 8 batch samples = 0.0020%–0.168%, mean content = 0.042%)^[5508], HU ZHANG *Polygonum cuspidatum* (rhizome: mean content = 1.40%)^[5508], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], JUE MING ZI *Cassia tora*, MAO GUO YI HE GUO *Ventilago calyculata*, NI BO ER YANG TI *Rumex nepalensis*, NIU ER DA HUANG *Rumex crispus*, NIU SHE CAO *Rumex dentatus* (root: mean content = 0.0805%)^[5508], NIU XI XI *Rumex patientia* (root: mean content = 0.1159%)^[5508], OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], SHU LI *Rhamnus davurica*, SUAN MO *Rumex acetosa* (root: mean content = 0.3025%)^[5508], TANG GU TE DA HUANG *Rheum tanguticum*, TIAN SHAN DA HUANG *Rheum wittrockii*, TIE ZI *Myrsine africana*, WANG JIANG NAN *Cassia occidentalis*, WANG JIANG NAN ZI *Cassia occidentalis* (ripe seed: content = 0.0016%)^[5508], YANG TI *Rumex japonicus* (root: mean content = 0.0881%)^[5508], YI HE GUO *Ventilago leiocarpa* (stem)^[3057], ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (stem and rhizome: content = 1.38%)^[5508], yield = 0.53%^[4711], ZHANG YE DA HUANG *Rheum palmatum* (stem and rhizome: content = 0.42%)^[5508], occurs in many plants. **Ref:** 2, 4, 458, 511, 608, 658, 660, 3057, 4711, 5008, 5232, 5501, 5508.



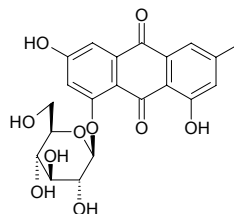
6777 Emodin anthrone

[491-60-1] $C_{15}H_{12}O_4$ (256.26). mp 236°C. **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2, 6.



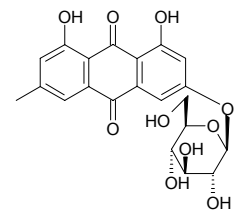
6778 Emodin-1-O-β-D-glucopyranoside

$C_{21}H_{20}O_{10}$ (432.39). **Pharm:** Inhibits sperm movement (hmn); antioxidant inactive (DPPH radical scavenger); cytotoxic inactive (MCF, HM02, HEPG2). **Source:** DA HUANG *Rheum officinale*, HU ZHANG *Polygonum cuspidatum*, NIU XI XI *Rumex patientia*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 658, 660, 5232.



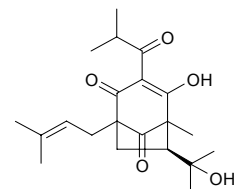
6779 Emodin-3-O-β-D-glucopyranoside

$C_{21}H_{20}O_{10}$ (432.39). Amorphous. **Pharm:** Antioxidant inactive (DPPH radical scavenger assay)^[5232]; cytotoxic inactive (MCF, HM02, HEPG2)^[5232]. **Source:** JUE MING ZI *Cassia tora*, NIU XI XI *Rumex patientia*. **Ref:** 2, 5232.



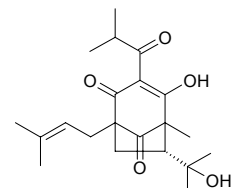
6780 Enaimeone A

$C_{21}H_{30}O_5$ (362.47). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum papuanum* **Ref:** 5371.



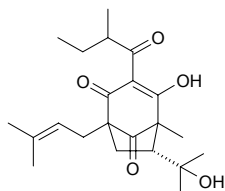
6781 Enaimeone B

$C_{21}H_{30}O_5$ (362.47). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum papuanum* **Ref:** 5371.

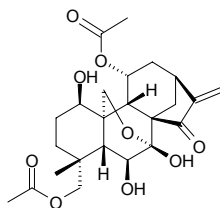


6782 Enaimeone C

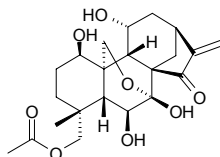
$C_{22}H_{32}O_5$ (376.50). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum papuanum* **Ref:** 5371.

**6783 Enanderianin A**

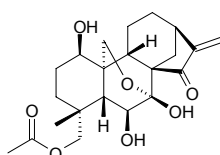
$C_{24}H_{32}O_9$ (464.52). mp 225–227°C, $[\alpha]_D^{22} = -76.9^\circ$ ($c = 0.52$, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 4067.

**6784 Enanderianin B**

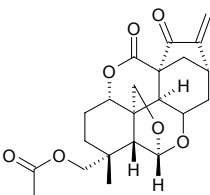
$C_{22}H_{30}O_8$ (422.48). mp 208–210°C, $[\alpha]_D^{22} = -71.4^\circ$ ($c = 0.63$, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 4067.

**6785 Enanderianin C**

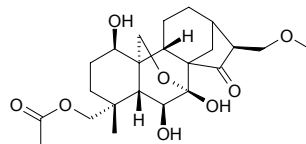
Xerophilus H [247939-40-8] $C_{22}H_{30}O_7$ (406.48). Colorless acicular crystals, $[\alpha]_D^{23} = -149.4^\circ$ ($c = 0.43$, pyridine), mp 238–240°C, mp 262–264°C. **Pharm:** Cytotoxic (K562, $IC_{50} = 1.17\mu\text{g/mL}$, control Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$; HL-60, $IC_{50} = 0.87\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$; HCT, $IC_{50} = 52.78\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 1.54\mu\text{g/mL}$; MKN28, $IC_{50} = 1.86\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.02\mu\text{g/mL}$)^[5182]. **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus* (leaf), ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 894, 4067, 5182.

**6786 Enanderianin F**

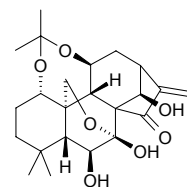
$C_{22}H_{26}O_7$ (402.45). White amorphous powder, $[\alpha]_D^{26} = +24.6^\circ$ ($c = 0.20$, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 1948.

**6787 Enanderianin G**

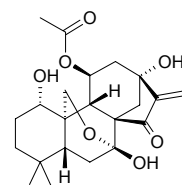
$C_{23}H_{34}O_8$ (438.52). White amorphous powder, $[\alpha]_D^{26} = -108.2^\circ$ ($c = 0.50$, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 1948.

**6788 Enanderianin H**

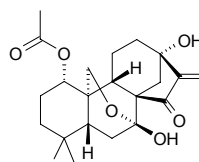
$C_{23}H_{34}O_7$ (420.51). White amorphous powder, $[\alpha]_D^{26} = -108.2^\circ$ ($c = 0.37$, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 1948.

**6789 Enanderianin K**

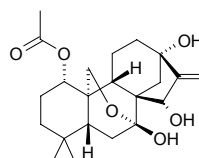
1 α ,7 β ,13 α -Trihydroxy-11 β -acetoxy-7 α ,20-epoxy-*ent*-kaur-16-en-15-one $C_{22}H_{30}O_7$ (406.48). Colorless cubic crystals (MeOH), mp 235–237°C, $[\alpha]_D^{20} = -33.3^\circ$ ($c = 0.20$, MeOH). **Pharm:** Cytotoxic (hmn tumor K562 cells, $IC_{50} = 0.67\mu\text{g/mL}$, control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

**6790 Enanderianin L**

7 β ,13 α -Dihydroxy-1 α -acetoxy-7 α ,20-epoxy-*ent*-kaur-16-en-15-one $C_{22}H_{30}O_6$ (390.48). Colorless needles (Me_2CO), mp 123–125°C, $[\alpha]_D^{20} = -89.8^\circ$ ($c = 0.25$, MeOH). **Pharm:** Cytotoxic (hmn tumor K562 cells, $IC_{50} = 0.16\mu\text{g/mL}$, control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

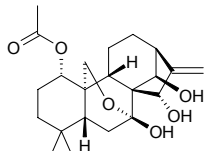
**6791 Enanderianin M**

7 β ,13 α ,15 β -Trihydroxy-1 α -acetoxy-7 α ,20-epoxy-*ent*-kaur-16-ene $C_{22}H_{32}O_6$ (392.50). Colorless needles (Me_2CO), mp 253–255°C, $[\alpha]_D^{20} = +25.0^\circ$ ($c = 0.08$, MeOH). **Pharm:** Cytotoxic (hmn tumor K562 cells, very weak). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

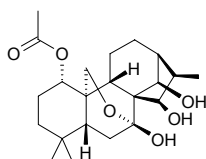


6792 Enanderianin N

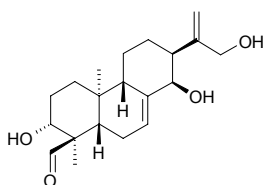
7 β ,14 β ,15 β -Trihydroxy-1 α -acetoxy-7 α ,20-epoxy-*ent*-kaur-16-ene C₂₂H₃₂O₆ (392.50). Colorless needles (Me₂CO), mp 216–218°C, [α]_D²⁰ = +5.7° (*c* = 0.26, MeOH). **Pharm:** Cytotoxic (hmn tumor K562 cells, very weak). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

**6793 Enanderianin O**

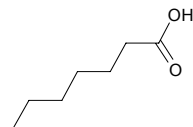
7 β ,14 β ,15 β -Trihydroxy-1 α -acetoxy-7 α ,20-epoxy-*ent*-kaurane C₂₂H₃₄O₆ (394.51). Colorless cubes (Me₂CO), mp 196–198°C, [α]_D²⁰ = –38.5° (*c* = 0.13, MeOH). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

**6794 Enanderianin P**

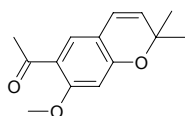
3 α ,14 β ,17-Trihydroxy-18-*alant*-abieta-7(8),15(16)-diene C₂₀H₃₀O₄ (334.46). Colorless cubes (Me₂CO), mp 187–189°C, [α]_D²⁴ = –0.7° (*c* = 5.00, MeOH). **Pharm:** Cytotoxic (hmn tumor K562 cells, IC₅₀ = 0.59 μ g/mL, control *cis*-Platin, IC₅₀ = 0.52 μ g/mL). **Source:** ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). **Ref:** 5475.

**6795 Enanthic acid**

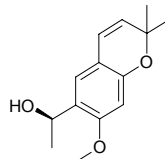
Heptanoic acid [111-14-8] C₇H₁₄O₂ (130.19). **Source:** DANG SHEN *Codonopsis pilosula*, CHAI HU *Bupleurum chinense*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium*. **Ref:** 2, 6.

**6796 Enecalol**

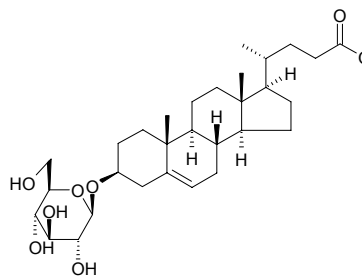
C₁₄H₁₆O₃ (232.28). **Pharm:** Pesticide; phytotoxic (yeast and bacteria). **Source:** XIAN ZE LAN *Eupatorium glandulosum*. **Ref:** 658.

**6797 Enecalolol**

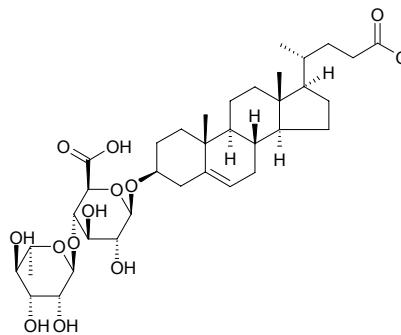
Enecalolol C₁₄H₁₈O₃ (234.30). **Pharm:** Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 12.5 μ g/mL, control Miconazole, MIC = 8 μ g/mL; *Trichophyton rubrum* ATCC28188, MIC = 12.5 μ g/mL, Miconazole, MIC = 8 μ g/mL; *Candida albicans* ATCC10231, MIC = 100 μ g/mL, Nistatin, MIC = 8 μ g/mL; *Candida niger* ATCC10335, MIC = 200 μ g/mL, Miconazole, MIC = 16 μ g/mL)^[5472]. **Source:** FU CHUI FE LAO JU *Flourensia cernua*, *Eupatorium aschenbornianum*. **Ref:** 1521, 5472.

**6798 5-Ene-methyl-7,12-didehydroxy-cholate-3-O- β -D-glucopyranoside**

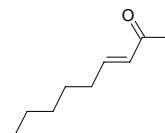
C₃₁H₅₀O₈ (550.74). White lamellar crystals, mp 201–205°C, soluble in methanol. **Source:** SAN LENG *Sparganium stoloniferum*. **Ref:** 497.

**6799 5-Ene-methyl-7,12-didehydroxy-cholate-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucuronopyranoside**

C₃₇H₅₈O₁₃ (710.8). White amorphous powder, mp 215–219°C, soluble in methanol. **Source:** SAN LENG *Sparganium stoloniferum*. **Ref:** 497.

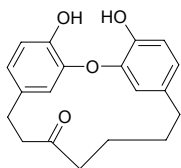
**6800 3-Ene-nonanone-2**

[14309-57-0] C₉H₁₆O (140.23). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2.

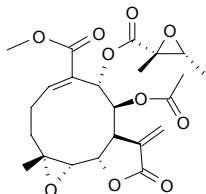


6801 Engelhardione

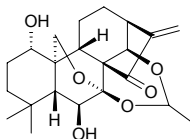
$C_{19}H_{20}O_4$ (312.37). Colorless needles (CH_2Cl_2 -MeOH), mp 73~75°C. **Pharm:** Antitubercular (*Mycobacterium tuberculosis* 90-221387, MIC = 3.125 μ g/mL; *Mycobacterium tuberculosis* H37Rv, MIC = 0.2 μ g/mL). **Source:** HUANG QI II *Engelhardia roxburghiana* (root). **Ref:** 5059.

**6802 Enhydrin**

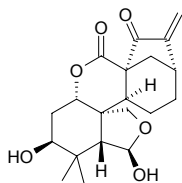
[33880-85-2] $C_{23}H_{28}O_{10}$ (464.47). **Pharm:** Antihypertensive. **Source:** ZHAO JU *Enhydra fluctuans*. **Ref:** 658.

**6803 Enmedol**

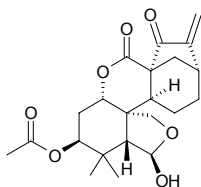
$C_{22}H_{30}O_6$ (390.48). mp 297~299°C, $[\alpha]_D^{27.5} = -45^\circ$ ($c = 0.1147$, MeOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**6804 Enmein**

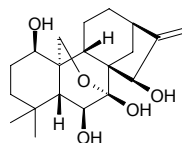
[3776-39-4] $C_{20}H_{26}O_6$ (362.43). Colorless short columnar crystals, mp 297~299°C (dec), $[\alpha]_D = -156^\circ$ (acetone), $[\alpha]_D^{10} = -131.3^\circ$ ($c = 1.0$, C_5H_5N). **Pharm:** Antineoplastic (male mus, EAC, 10~15mg/kg ip, biotic prolonged rate = (39~66)%). **Source:** MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (the compound was isolated from the plant in 1965)^[5505], MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 661, 4067, 5505, 3808, 4067.

**6805 Enmein-3-acetate**

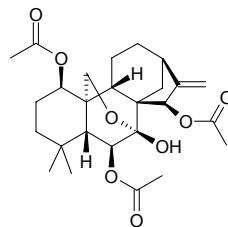
$C_{22}H_{28}O_7$ (404.46). mp 267~271(dec)°C, $[\alpha]_D^{17} = -112^\circ$ ($c = 1.0$, C_5H_5N). **Source:** MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. **Ref:** 4067.

**6806 Enmelol**

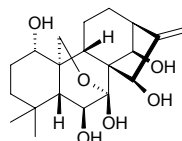
$C_{20}H_{30}O_5$ (350.45). mp 263~265°C, $[\alpha]_D^{35} = -48^\circ$ ($c = 0.0863$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 4067, 3808.

**6807 Enmenin monoacetate**

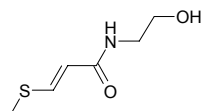
$C_{26}H_{36}O_8$ (476.57). **Source:** SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808.

**6808 Enmenol**

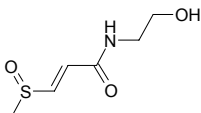
$C_{20}H_{30}O_6$ (366.46). mp 255~257°C. **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067, 4353.

**6809 Entadamide A**

$C_6H_{11}NO_2S$ (161.22). Pale yellow oil. **Pharm:** Antitubercular inactive (*Mycobacterium tuberculosis* H37Ra); antimalarial inactive (*Plasmodium falciparum*, $EC_{50} > 20\mu$ g/mL). **Source:** TAI GUO NIU XU HUA *Clinacanthus siamensis* (leaf). **Ref:** 4410.

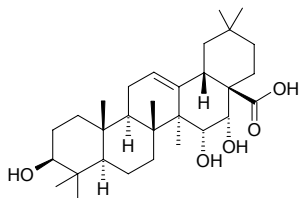
**6810 Entadamide C**

$C_6H_{11}NO_3S$ (177.22). Colorless needles (acetone), mp 141~142°C. **Pharm:** Antitubercular inactive (*Mycobacterium tuberculosis* H37Ra); antimalarial inactive (*Plasmodium falciparum*, $EC_{50} > 20\mu$ g/mL). **Source:** TAI GUO NIU XU HUA *Clinacanthus siamensis* (leaf). **Ref:** 4410.

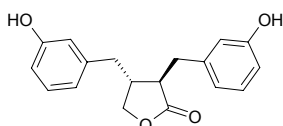


6811 Entagenic acid

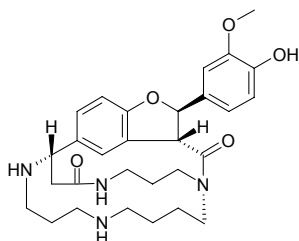
[5951-41-7] $C_{30}H_{48}O_5$ (488.71). mp 310–315°C. Source: KE TENG ZI *Entada phaseoloides* [Syn. *Lens phaseoloides*]. Ref: 6.

**6812 Enterolactone**

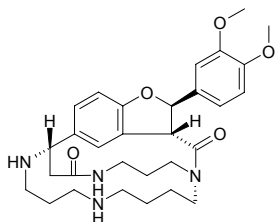
[78473-71-9] $C_{18}H_{18}O_4$ (298.34). Pharm: Cancer-preventing activity. Source: family Brassicaceae spp. Ref: 1521, 1582.

**6813 Ephedradine B**

[71327-57-6] $C_{29}H_{38}N_4O_5$ (522.65). Crystals without free alkali, dihydrobromide: ($C_{29}H_{38}N_4O_5 \cdot 2HBr \cdot H_2O$) mp 219–221°C, $[\alpha]_D = -101.5^\circ$ (water). Pharm: Antihypertensive. Source: *Ephedra* sp. Ref: 661.

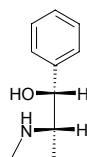
**6814 Ephedradine C**

[73276-37-6] $C_{30}H_{40}N_4O_5$ (536.68). Crystals without free alkali, dihydrobromide: ($C_{30}H_{40}N_4O_5 \cdot 2HBr \cdot H_2O$) mp 224–225°C, $[\alpha]_D = -100.7^\circ$ (water). Pharm: Antihypertensive. Source: *Ephedra* sp. Ref: 661.

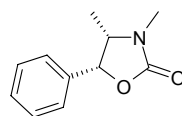
**6815 Ephedrine**

Ephedrine; 1-Phenyl-2-methylaminopropanol [299-42-3] $C_{10}H_{15}NO$ (165.24). mp 38.1°C, bp 225°C, $[\alpha]_D^{20} = -6.3^\circ$ (ethanol), $[\alpha]_D^{21} = -41^\circ$ (1mol HCl), easily soluble in water, ethanol, soluble in chloroform, benzene, ether.^[5507] Pharm: Antiasthmatic (bronchial smooth muscle relaxant); contracts peripheral blood vessels; increases blood pressure; adrenergic α - and β -receptor agonist to produce sympathomimetic action; CNS stimulant.

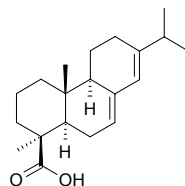
Source: BAN XIA *Pinellia ternata* (dried tuber: content = 0.0020%)^[5501 5508], BAN ZI MA HUANG *Ephedra lepidosperma* (herbaceous twigs: content = 0.024%)^[5508], DAN ZI MA HUANG *Ephedra monosperma* (herbaceous twigs: content = 1.247%)^[5508], HUANG HUA REN *Sida acuta*, LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 3 origins = 0.727%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: content scope = 0.272%–0.889%)^[5501], mean content of 5 origins = 0.654%)^[5508], MO GUO MA HUANG *Ephedra przewalskii* (herbaceous twigs: mean content of 2 origins = 0.027%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: content scope = 1.113%–1.409%)^[5501], mean content of 2 origins = 1.256%)^[5508], SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.696%)^[5508], SHU ZHUANG MA HUANG *Ephedra procera* (herbaceous twigs: content = 0.06%)^[5508], SHUANG SUI MA HUANG *Ephedra distachya* (herbaceous twigs: content = 0.19%)^[5508], XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = 1.060%)^[5508], XI ZI MA HUANG *Ephedra regeliana* (herbaceous twigs: content = 0.054%)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content of 2 origins = 0.567%)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = 0.601%)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs:), ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: content scope = 0.125%–0.47%)^[5501], mean content of 3 origins = 0.266%)^[5508], *Ephedra tweediana* (herbaceous twigs: content = 0.0028%)^[5508]. Ref: 4, 658, 660, 5501, 5507, 5508.

**6816 (4S,5R) Ephedroxane**

[16251-46-0] $C_{11}H_{13}NO_2$ (191.23). Pharm: Anti-inflammatory. Source: AI MA HUANG *Ephedra minuta*, MA HUANG *Ephedra sinica*, MU ZEI MA HUANG *Ephedra equisetina*, SHAN LING MA HUANG *Ephedra gerardiana*, SHUANG SUI MA HUANG *Ephedra distachya*, ZHONG MA HUANG *Ephedra intermedia*. Ref: 2, 658, 660.

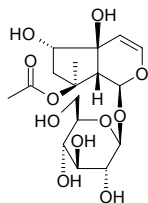
**6817 4-Epi-abietic acid**

$C_{20}H_{30}O_2$ (302.46). White amorphous powder. Source: JIA DI FENG PI *Illicium jiadifengpi* (bark). Ref: 4560.

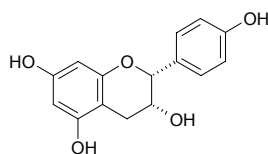


6818 6-Epi-8-O-acetylharpagide

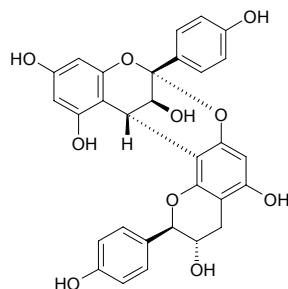
$C_{17}H_{26}O_{11}$ (406.39). White amorphous powder, $[\alpha]_D = -36^\circ$ ($c = 0.0035$, MeOH). Source: ZA JIAO YOU⁽²⁾ *Caryopteris clandonensis*. Ref: 3988.

**6819 (-)-Epiatzelechin**

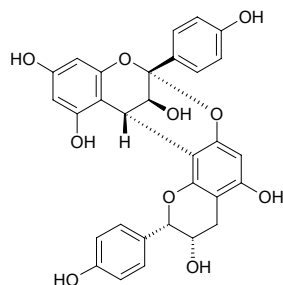
[24808-04-6] $C_{15}H_{14}O_5$ (274.28). White crystals, mp 248~250°C, $[\alpha]_D = -59^\circ$ ($c = 0.1$, MeOH). Pharm: Antioxidant (DPPH free radical scavenger, $IC_{50} = 7.5 \mu\text{g/mL}$)^[3028]. Source: AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], NAN SHE TENG YECelastrus orbiculatus [Syn. *Celastrus articulatus*], NAN SHE TENG *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (aerial parts: yield = 0.0025%dw)^[3028], OU ZHOU CI BAI *Juniperus communis*, XI BO JUE MING *Cassia sieberiana*. Ref: 713, 3028, 3094.

**6820 ent-Epiatzelechin-(2α→O→7, 4α→8)-(+)-afzelechin**

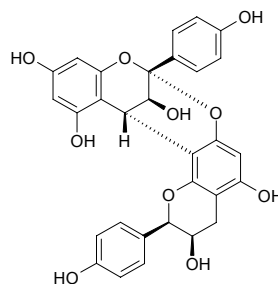
$C_{30}H_{24}O_{10}$ (544.52). Amorphous powder, mp > 300°C. Source: XING REN *Prunus armeniaca*. Ref: 1896.

**6821 ent-Epiatzelechin-(2α→O→7, 4α→8)-(-)-afzelechin**

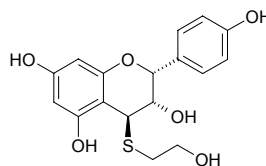
$C_{30}H_{24}O_{10}$ (544.52). Amorphous powder, mp > 300°C. Source: XING REN *Prunus armeniaca*. Ref: 1896.

**6822 ent-Epiatzelechin-(2α→O→7, 4α→8)-epiatzelechin**

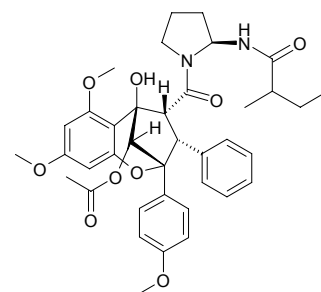
Mahuangnin A $C_{30}H_{24}O_{10}$ (544.52). Amorphous powder, mp > 300°C. Source: MA HUANG GEN *Ephedra sinica*, XING REN *Prunus armeniaca*. Ref: 1230, 1896.

**6823 (-)-Epiatzelechin-4-(2-hydroxyethyl)thio ether**

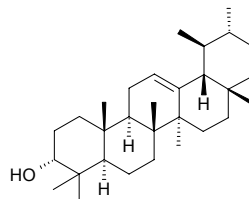
$C_{17}H_{18}O_6S$ (350.39). Red amorphous powder, $[\alpha]_D = +208.5^\circ$ ($c = 0.4$, MeOH). Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.

**6824 4-Epiaglain A**

$C_{38}H_{44}N_2O_9$ (672.78). Amorphous powder, $[\alpha]_D^{20} = -1.0^\circ$ ($c = 0.97$, $CHCl_3$). Source: TUE YUAN MI ZI LAN *Aglaia elliptica* (leaf). Ref: 4127.

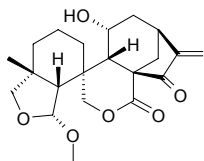
**6825 Epi-α-amyrin**

[5937-48-4] $C_{30}H_{50}O$ (426.73). Source: MI DIE XIANG *Rosmarinus officinalis*. Ref: 6.

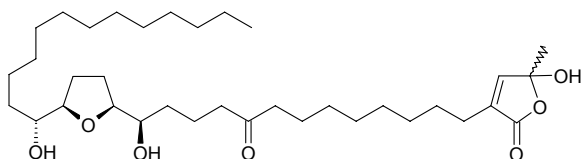


6826 6-Epiangustifolin

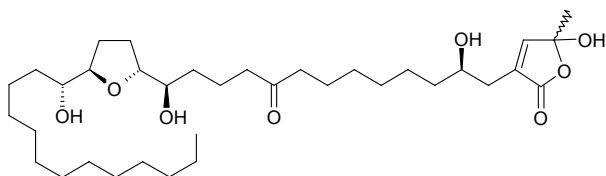
$C_{21}H_{28}O_6$ (376.45). Colorless needles (MeOH), mp 240~242°C, $[\alpha]_D^{17} = -94.7^\circ$ ($c = 0.41$, MeOH). **Pharm:** Cytotoxic (*in vitro*, K562, $IC_{50} = 0.87\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[4732]. **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.0004%dw)^[4732], ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 2030, 4732.

**6827 34-Epiannomolon A**

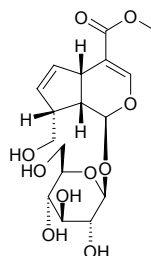
$C_{35}H_{62}O_7$ (594.88). White powder, mp 82.1~82.7°C, $[\alpha]_D^{23} = -5.0^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** The data are from mixture of annomolon A and 34-epi-annomolon A: cytotoxic (BST, $LC_{50} = 0.375\mu\text{g/mL}$); cytotoxic (*in vitro*, A549, $ED_{50} = 1.26\mu\text{g/mL}$; MCF7, $ED_{50} = 0.303\mu\text{g/mL}$; HT29, $ED_{50} = 0.193\mu\text{g/mL}$; A498, $ED_{50} = 0.93\mu\text{g/mL}$; PC3, $ED_{50} = 0.198\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 0.00312\mu\text{g/mL}$; control Adriamycin: A549, $ED_{50} = 0.00113\mu\text{g/mL}$; MCF7, $ED_{50} = 0.0182\mu\text{g/mL}$; HT29, $ED_{50} = 0.0128\mu\text{g/mL}$; A498, $ED_{50} = 0.00226\mu\text{g/mL}$; PC3, $ED_{50} = 0.0502\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 0.00262\mu\text{g/mL}$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 4731.

**6828 34-Epiannomolon B**

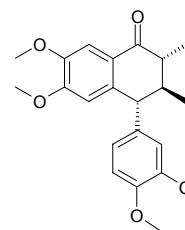
$C_{35}H_{62}O_8$ (610.88). White powder, mp 86.3~87.2°C, $[\alpha]_D^{23} = +6.0^\circ$ ($c = 0.02$, CH_2Cl_2). **Pharm:** The data are from mixtures of annomolon B and 34-epi-annomolon B: cytotoxic (BST, $LC_{50} = 0.07\mu\text{g/mL}$); cytotoxic (*in vitro*, A549, $ED_{50} = 1.37\mu\text{g/mL}$; MCF7, $ED_{50} = 0.047\mu\text{g/mL}$; HT29, $ED_{50} = 0.0719\mu\text{g/mL}$; A498, $ED_{50} = 0.377\mu\text{g/mL}$; PC3, $ED_{50} = 0.0553\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 0.00748\mu\text{g/mL}$; control Adriamycin: A549, $ED_{50} = 0.00113\mu\text{g/mL}$; MCF7, $ED_{50} = 0.0182\mu\text{g/mL}$; HT29, $ED_{50} = 0.0128\mu\text{g/mL}$; A498, $ED_{50} = 0.00226\mu\text{g/mL}$; PC3, $ED_{50} = 0.0502\mu\text{g/mL}$; MIA-PaCa-2, $ED_{50} = 0.00262\mu\text{g/mL}$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 4731.

**6829 8-Epiapodantheroside**

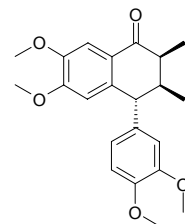
$C_{17}H_{24}O_{10}$ (388.37). Amorphous powder, $[\alpha]_D^{25} = -128.6^\circ$ ($c = 0.0715$, MeOH). **Source:** ZHI ZI YE *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 4408.

**6830 (+)-8,8'-Epi-aristoligone**

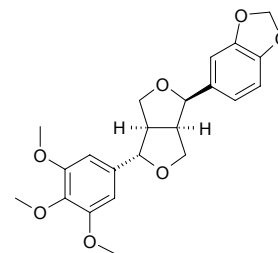
(7*R*,8*R*,8'*S*)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cyclo lignan-7-one $C_{22}H_{26}O_5$ (370.45). Yellow crystals, mp 146.5~149.3°C, $[\alpha]_D^{25} = -30.0^\circ$ ($c = 1.33$, CHCl_3). **Source:** *Holostylis reniformis* (root). **Ref:** 3784.

**6831 (-)-8,8'-Epi-aristoligone**

(7*R*,8*S*,8'*S*)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cyclo lignan-7-one $C_{22}H_{26}O_5$ (370.45). Yellow crystals, mp 130.0~132.0°C, $[\alpha]_D^{25} = -64.3^\circ$ ($c = 1.04$, CHCl_3). **Source:** *Holostylis reniformis* (root). **Ref:** 3784.

**6832 Epiaschantin**

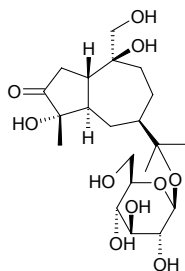
$C_{22}H_{24}O_7$ (400.43). $[\alpha]_D^{20} = +95^\circ$ ($c = 0.2$, CHCl_3). **Source:** LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). **Ref:** 5030.



6833 10-Epiatractyloside A

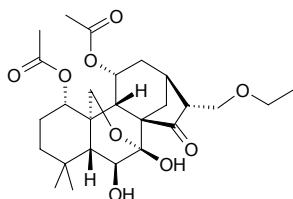
$C_{21}H_{36}O_{10}$ (448.52). Amorphous powder, $[\alpha]_D^{22} = +14^\circ$ ($c = 1.2$, MeOH).

Source: CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310, 4348.

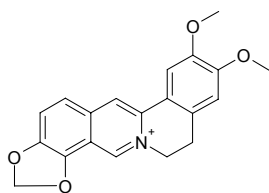
**6834 Epi-baiyecrystal C**

$C_{26}H_{38}O_9$ (494.59). mp 224–225.5°C, $[\alpha]_D^{22.3} = -5.68^\circ$ ($c = 0.26$, MeOH).

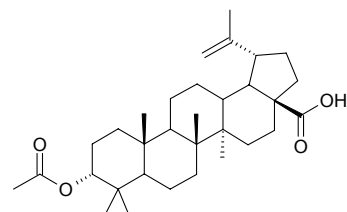
Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**6835 Epiberberine**

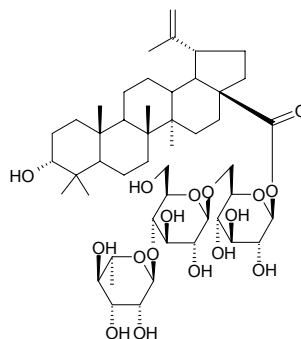
$C_{20}H_{18}NO_4$ (336.37). Pharm: Cytotoxic (topoisomerase I inhibitor *in vitro*)^[5369]. Source: DUO HUA XIAO BO *Berberis floribunda*, HUANG LIAN *Coptis chinensis* (rhizome: mean content = 1.29%^[5508]), NAN TIAN ZHU YE *Nandina domestica*, SAN JIAO YE HUANG LIAN *Coptis deltoidea* (rhizome: mean content = 0.54%^[5508]), SAN YE HUANG LIAN *Coptis trifolia*. Ref: 1521, 5369, 5508.

**6836 3-Epi-betulinic acid acetate**

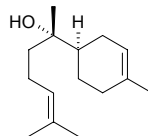
$C_{32}H_{50}O_4$ (498.75). $[\alpha]_D^{26} = +75.1^\circ$ ($c = 0.21$, EtOH). Source: HUANG QI II *Engelhardia roxburghiana* (root). Ref: 5059.

**6837 3-Epibetulinic acid 28-O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

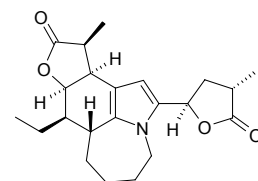
$C_{48}H_{78}O_{17}$ (927.15). White powder, mp 208–210 °C $[\alpha]_D^{20} = -38.7^\circ$ ($c = 0.4$, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus*. Ref: 467, 1521.

**6838 (+)-4-Epi-α-bisabolol**

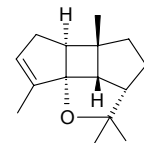
$C_{15}H_{26}O$ (222.37). Source: FEN CHA DANG GUI *Angelica furcujuga* (flower). Ref: 4454.

**6839 Epi-bisdehydrotuberostemonine J**

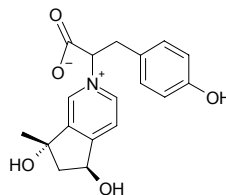
$C_{22}H_{29}NO_4$ (371.48). mp 186–188°C, $[\alpha]_D^{20} = -16.1^\circ$ ($c = 0.1$, MeOH). Pharm: Antitussive inactive (guinea pig cough model)^[5463]. Source: BAI BU *Stemona tuberosa*. Ref: 5463.

**6840 (-)-(1S*,5S*,6S*,7S*,10S*)-7-Epi-bourbon-3-en-5,11-oxide**

$C_{15}H_{22}O$ (218.34). Colorless oil. Source: XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). Ref: 3840.

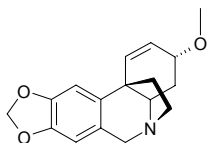
**6841 Epibueroypyridinium A**

$C_{18}H_{19}NO_5$ (329.36). Colorless hyaloid oil. Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 8.

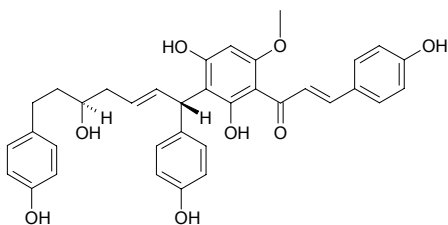


6842 Epibuphanisine

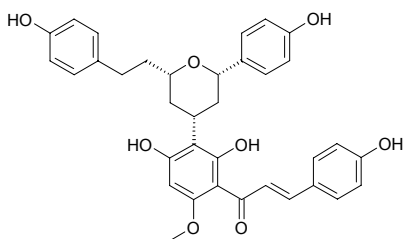
$C_{17}H_{19}NO_3$ (285.35). **Pharm:** AChE inhibitor ($IC_{50} = (547 \pm 5) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$). **Source:** *Crinum moorei*. **Ref:** 4952.

**6843 Epicalyxin B**

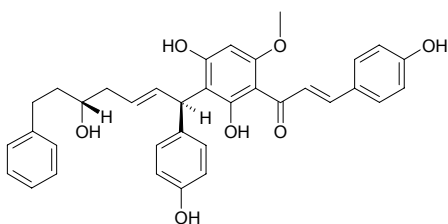
$C_{35}H_{34}O_8$ (582.66). **Source:** ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). **Ref:** 4522.

**6844 Epicalyxin F**

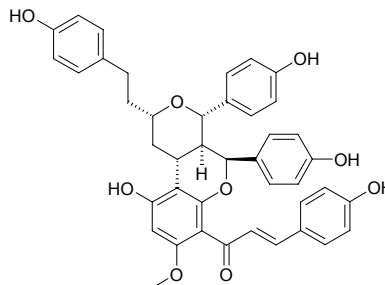
$C_{35}H_{34}O_8$ (582.66). Light yellow amorphous solid, $[\alpha]_D^{25} = +103.1^\circ$ ($c = 0.05$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 0.89 \mu\text{mol/L}$; HT1080, $ED_{50} = 1.71 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: 0.000043%). **Ref:** 3035.

**6845 Epicalyxin H**

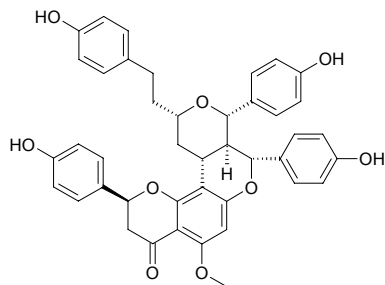
$C_{35}H_{34}O_7$ (566.66). **Source:** ZHU SUI SHAN JIANG *Alpinia pinnanensis* (rhizome). **Ref:** 4522.

**6846 Epicalyxin I**

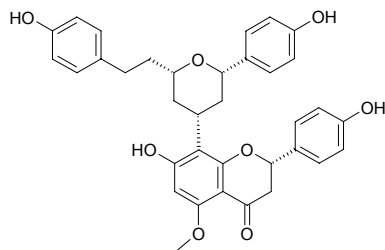
$C_{42}H_{38}O_9$ (686.77). Light yellow amorphous solid, $[\alpha]_D^{25} = +28.3^\circ$ ($c = 0.025$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 12.1 \mu\text{mol/L}$; HT1080, $ED_{50} = 5.88 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$)^[3035]. **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000040%^[3035]; yield = 0.000040%^[3048]). **Ref:** 3035, 3048.

**6847 Epicalyxin J**

$C_{42}H_{38}O_9$ (686.77). Light yellow amorphous solid. **Pharm:** Cytotoxic (mixture of calyxin J and epicalyxin J (1:1): Colon26-L5, $ED_{50} = 13.7 \mu\text{mol/L}$; HT1080, $ED_{50} = 0.32 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000056%). **Ref:** 3035.

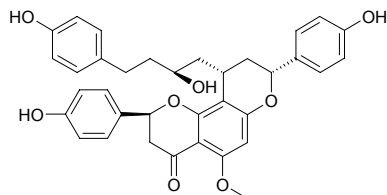
**6848 Epicalyxin K**

$C_{35}H_{34}O_8$ (582.66). Pale yellow amorphous solid, $[\alpha]_D^{25} = -17.0^\circ$ ($c = 0.085$, MeOH). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 33.0 \mu\text{mol/L}$; HT1080, $ED_{50} = 4.75 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000017%). **Ref:** 3035.

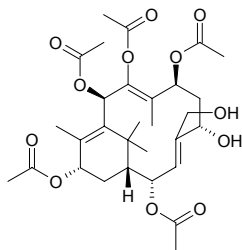


6849 Epicalyxin M

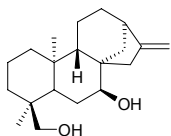
$C_{35}H_{34}O_8$ (582.66). Yellow amorphous solid (An epimeric mixture of calyxin M and epicalyxin M). **Pharm:** Cytotoxic (mixture of calyxin M and epicalyxin M (3:2): Colon26-L5, $ED_{50} = 42.1 \mu\text{mol/L}$; HT1080, $ED_{50} = 10.1 \mu\text{mol/L}$; control Curcumin, Colon26-L5, $ED_{50} = 23.2 \mu\text{mol/L}$; HT1080, $ED_{50} = 23.4 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed). **Ref:** 3035.

**6850 5-Epicanadense**

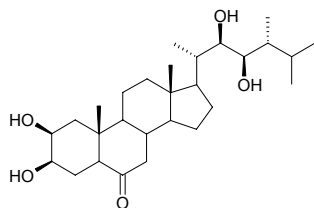
$C_{30}H_{42}O_{12}$ (594.66). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis*. **Ref:** 662.

**6851 7-Epicandicandiol**

$C_{20}H_{32}O_2$ (304.48). Colorless needles (CHCl_3). **Source:** *Sideritis ozturkii* (aerial parts). **Ref:** 3827.

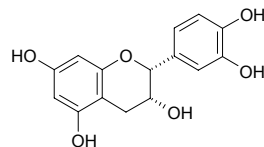
**6852 24-Epicasterone**

$C_{28}H_{48}O_5$ (464.69). **Source:** YANG JIAN QIU LUO *Lychnis viscaria*. **Ref:** 2418.

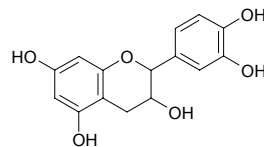
**6853 (-)-Epicatechin**

5,7,3',4',-Tetrahydroxyflavanol $C_{15}H_{14}O_6$ (290.28). mp 242°C , $[\alpha]_D = -68.2^\circ$ (96% ethanol). **Pharm:** Antiallergic; antibacterial; anti-inflammatory; antimutagenic; inhibits lactic acid bacteria; antioxidant (inhibits free-radical induced lysis of rat red blood cells and exhibits strong and dose-dependent protection of cell membrane)^[5341]; cholinesterase inhibitor; antihypercholesterolemic (reduces the level of cholesterol in serum); antioxidant (DPPH free radical scavenger, for $40 \mu\text{mol/L}$ DPPH radical, $SC_{50} = 4.1 \mu\text{mol/L}$)^[4378]; DPPH scavenger ($IC_{50} = 8.5 \mu\text{g/mL}$); β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100 \mu\text{mol/L}$, $\text{InRt} = (-3.9 \pm 1.2)\%$)^[4304];

inhibits cancer cell invasion (MM1 cells, *in vitro*, $10 \mu\text{g/mL}$, $\text{InRt} = 20.3\%$)^[4329]; bone marrow cell proliferation promoter ($1\sim 100 \text{mg/mL}$, promotes proliferation of cultured bone marrow cells, stimulates formation of myeloid colonies and enhances the effect of IL-3 to increase the number of colony forming-units in culture (CFU-c))^[5390]; bone marrow cell proliferation promoter (*ex vivo*, model mouse of decreasing bone marrow functions, orally $100 \text{mg}/(\text{kg}\cdot\text{d})$, stimulates IL-3-induced CFU-c formation of bone marrow cells)^[5390]; antioxidant (DPPH free radical scavenger, $10 \mu\text{mol/L}$, $\text{ScRt} = 82\%$, control BHT, $10 \mu\text{mol/L}$, $\text{ScRt} = 43\%$)^[5319]; antioxidant (DPPH free radical scavenger, $IC_{50} = 8.5 \mu\text{g/mL}$)^[3028]. **Source:** A LA BO JIAO JIN HE HUAN *Acacia nilotica*, AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], BAI GUO *Ginkgo biloba*, BI LU GOU TENG *Uncaria tomentosa*, CAO YUAN LAO GUAN CAO *Geranium pratense*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], DAN ZI SHAN ZHA *Crataegus monogyna*, DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], E RONG WEI LING CAI *Potentilla anserina*, ER CHA GOU TENG *Uncaria gambir* (dried decocted extract of trunk: content scope of 10 origins = $1.57\%\sim 3.84\%$; mean content = 2.45%)^[5508], GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUAN YE LIAN QIAO *Hypericum perforatum*, HAI ER CHA *Acacia catechu* (dried decocted extract of trunk: content scope of 8 origins = $7.56\%\sim 14.20\%$; mean content = 11.3%)^[5508], HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, HONG QI YE SHU *Aesculus carnea*, JIA ZHOU QI YE SHU *Aesculus californica*, JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts), LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], MAO GUO QI *Acer nikoense* (stem cortex), MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems), NAN SHE TENG *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (aerial parts: yield = $0.050\% \text{dw}$)^[3028], QUAN SHEN *Polygonum bistorta*, SHA ZAO *Elaeagnus angustifolia*, SHAN CHA *Camellia japonica*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TUO YUAN GOU TENG *Uncaria elliptica*, YUE JU YE *Vaccinium vitis-idaea*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*], *Pterocarpus* sp., occurs in many plants. **Ref:** 6, 658, 661, 1521, 3028, 3066, 3094, 4304, 4329, 4378, 4461, 5319, 5341, 5375, 5390, 5491, 5508.

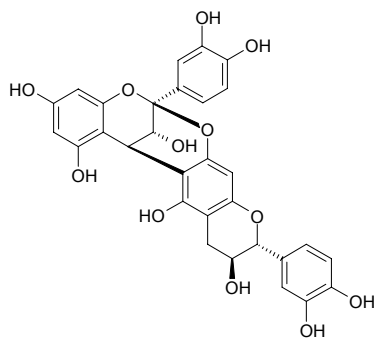
**6854 Epicatechin**

Epicatechol $C_{15}H_{14}O_6$ (290.28). mp (+) 245°C (dec), (-) 245°C (dec), (+/-) $224\sim 226^\circ\text{C}$ (dec). **Pharm:** antioxidant (DPPH radical scavenger, $IC_{50} = 1.7 \mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = 3.9 \mu\text{g/mL}$)^[4711]. **Source:** BAI GUO YE *Ginkgo biloba*, DA HUANG *Rheum officinale*, HAI ER CHA *Acacia catechu*, SHAN LI HONG *Crataegus pinnatifida* var. *major*, SHAN ZHA *Crataegus pinnatifida*, TANG GU TE DA HUANG *Rheum tanguticum*, YE SHAN ZHA *Crataegus cuneata*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = $0.033\% \text{dw}$)^[4711], ZHAI YE BAN FENG HE *Pterospermum lanceaeifolium*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 6, 433, 660, 4711, 5375.

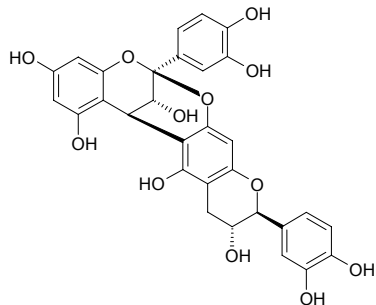


6855 Epicatechin-(2 β →O→7,4 β →6)-catechin

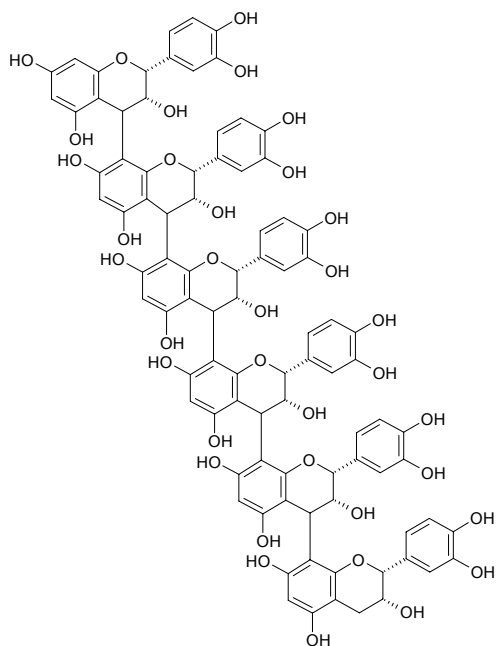
C₃₀H₂₄O₁₂ (576.52). Colorless needles (H₂O), mp 271–273°C (dec), [α]_D = +10.12° (c = 1.05, acetone). **Pharm:** Hyaluronidase inhibitor. **Source:** LUO HUA SHENG *Arachis hypogaea*. **Ref:** 2284.

**6856 Epicatechin-(2 β →O→7,4 β →6)-ent-epicatechin**

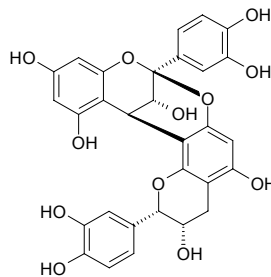
C₃₀H₂₄O₁₂ (576.52). White amorphous powder (H₂O); mp 262°C (dec). **Pharm:** Hyaluronidase inhibitor. **Source:** LUO HUA SHENG *Arachis hypogaea*. **Ref:** 2284.

**6857 [Epicatechin-(4 β →8)] 5-epicatechin**

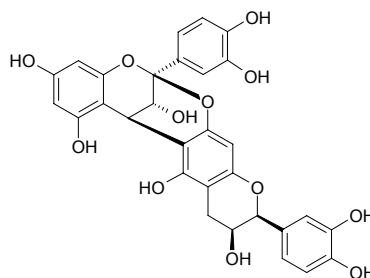
C₉₀H₇₄O₃₆ (1731.57). **Pharm:** Tanning agent. **Source:** ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*]. **Ref:** 658.

**6858 Epicatechin-(2 β →O→7,4 β →8)-ent-epicatechin**

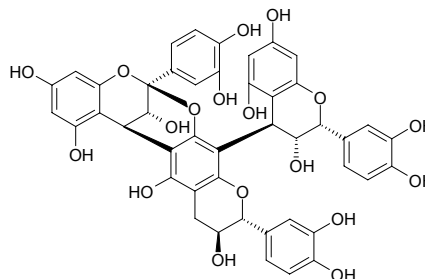
C₃₀H₂₄O₁₂ (576.52). White crystalline powder (H₂O), mp 260°C (dec). **Pharm:** Hyaluronidase inhibitor. **Source:** LUO HUA SHENG *Arachis hypogaea*. **Ref:** 2284.

**6859 Epicatechin-(4 β →6,2 β →O→7)-ent-epicatechin**

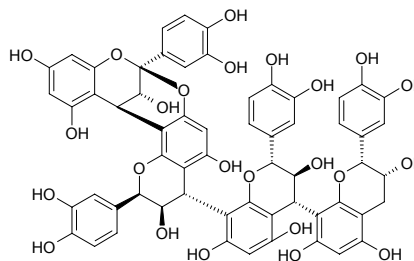
C₃₀H₂₄O₁₂ (576.52). White amorphous powder (H₂O/MeOH); mp 280°C (dec). **Pharm:** Hyaluronidase inhibitor. **Source:** LUO HUA SHENG *Arachis hypogaea*. **Ref:** 2284.

**6860 Epicatechin-(2 β →O→7,4 β →6)-[epicatechin-(4 β →8)]-catechin**

C₄₅H₃₆O₁₈ (864.78). Off-white amorphous powder, mp 272°C (dec), [α]_D = +86.2° (c = 0.3, acetone). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = (1.21±0.11)μmol/L; control EGG, IC₅₀ = (1.13±0.08)μmol/L). **Source:** LUO HUA SHENG *Arachis hypogaea* (seed). **Ref:** 3848.

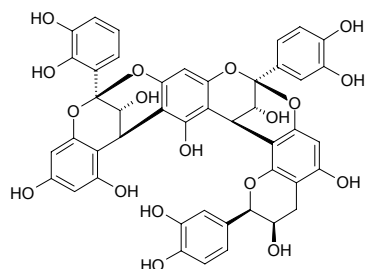
**6861 Epicatechin-(2 β →O→7,4 β →8)epicatechin-(4 α →8)-catechin-(4 α →8)-epicatechin**

C₆₀H₄₈O₂₄ (1153.04). Off-white amorphous powder, mp 260°C (dec), [α]_D = +27.6° (c = 0.3, acetone). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = (1.32±0.16)μmol/L; control EGG, IC₅₀ = (1.13±0.08)μmol/L). **Source:** LUO HUA SHENG *Arachis hypogaea* (seed). **Ref:** 3848.

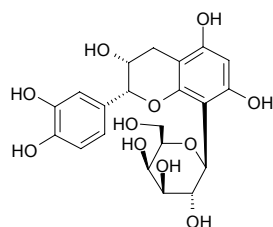


6862 Epicatechin-(2 β →O→7,4 β →6)-epicatechin-(2 β →O→7,4 β →8)-epicatechin

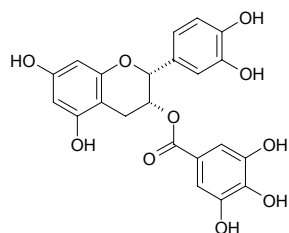
C₄₅H₃₄O₁₈ (862.76). Pale yellow amorphous powder, $[\alpha]_D^{21} = +184.9^\circ$ ($c = 1.08$, MeOH). Source: CHANG JIE ZHU *Parameria laevigata* (bark). Ref: 3523.

**6863 Epicatechin-8-C- β -D-galactopyranoside**

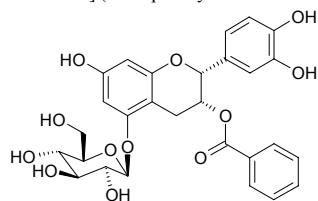
C₂₁H₂₄O₁₁ (452.42). Light-brown amorphous powder, $[\alpha]_D = -25.8^\circ$ ($c = 0.9$, MeOH). Pharm: Antioxidant (inhibits NADPH-dependent lipid peroxidation in microsomes and autoxidation of linoleic acid); antioxidant (DPPH scavenger, effective). Source: KE KE *Theobroma cacao*. Ref: 2023.

**6864 (-)-Epicatechin-3-O-gallate**

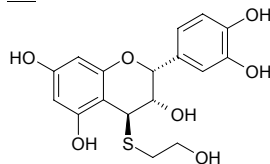
Galloylepicatechin C₂₇H₁₈O₁₀ (442.38). mp 253°C. Pharm: Inhibits cancer cell invasion (MM1 cells, *in vitro*, 10 μ g/mL, InRt = 59.9%)^[4329]; bone marrow cell proliferation promotor (100mg/mL, stimulates formation of myeloid colonies)^[5390]. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], DA HUANG *Rheum officinale*, HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*, TAO GEN *Prunus persica*. Ref: 2, 6, 660, 4329, 5390.

**6865 (-)-Epicatechin-5-O- β -D-glucopyranosyl-3-benzoate**

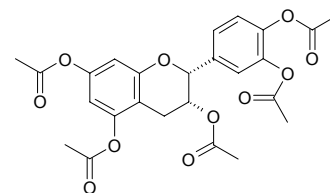
C₂₈H₂₈O₁₂ (556.53). Bright pink needles (CH₂Cl₂:MeOH = 1:1), mp 191~192°C; $[\alpha]_D^{25} = -95^\circ$ ($c = 0.3$, MeOH). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 25 μ g/mL)^[3028]. Source: NAN SHE TENG *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (aerial parts: yield = 0.0026%dw). Ref: 3028.

**6866 (-)-Epicatechin 4-(2-hydroxyethyl)thio ether**

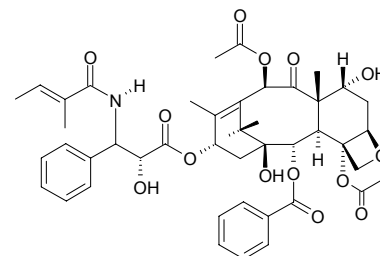
C₁₇H₁₈O₇S (366.39). Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.

**6867 (-)-Epicatechin-pentaacetate**

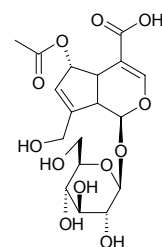
C₂₅H₂₄O₁₁ (500.46). Source: BAI GUO *Ginkgo biloba*. Ref: 2.

**6868 7-Epicephalommannine**

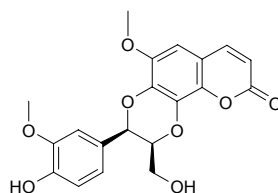
C₄₅H₅₂N₁₄ (831.92). mp 210°C, $[\alpha]_D = -7.32^\circ$ (MeOH). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**6869 6-O-Epiacetylscaidoside**

C₁₈H₂₄O₁₂ (432.38). White amorphous powder, $[\alpha]_D^{19} = -94.6^\circ$ ($c = 0.19$, MeOH). Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). Ref: 4219.

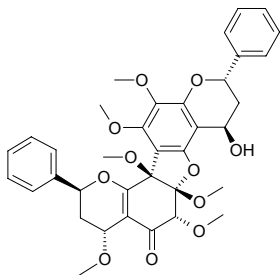
**6870 8'-Epi-cleomiscosin A**

C₂₀H₁₈O₈ (386.36). Amorphous powder, $[\alpha]_D^{25} = +15.5^\circ$ ($c = 0.1$, C₅D₅N). Pharm: Tyrosinase inhibitor (IC₅₀ = (1.33±1.06) μ mol/L, control Kojic acid, IC₅₀ = (16.67±0.52) μ mol/L, L-Mimosine, IC₅₀ = (3.68±0.02) μ mol/L). Source: A FU HAN DU JUAN HUA *Rhododendron collettianum*. Ref: 2544.

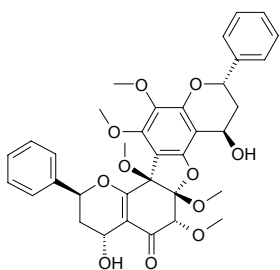


6871 6''-Epi-calyflorenone B

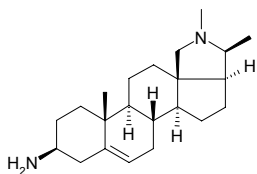
$C_{36}H_{38}O_{11}$ (646.70). Pale amorphous solid, mp 110~112°C (Et₂O–petrol), $[\alpha]_D^{20} = -30.05^\circ$ ($c = 0.183$). Source: E CHI TENG *Calycopteris floribunda* (green part). Ref: 3779.

**6872 6''-Epi-calyflorenone C**

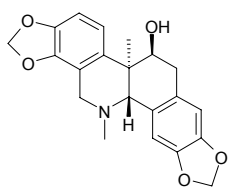
$C_{35}H_{36}O_{11}$ (632.67). Pale amorphous solid, mp 117~119°C (Et₂O–petrol), $[\alpha]_D^{20} = -21.86^\circ$ ($c = 0.183$). Source: E CHI TENG *Calycopteris floribunda* (green part). Ref: 3779.

**6873 3-Epiconamine**

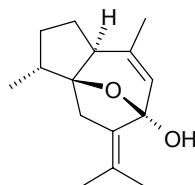
$C_{22}H_{36}N_2$ (328.55). mp 95~100°C. Source: ZHI XIE MU PI *Holarhena antidyenterica*. Ref: 6.

**6874 (+)-14-Epicorynoline**

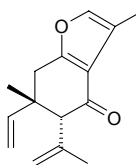
[51151-82-7] $C_{21}H_{21}NO_5$ (367.41). Source: ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

**6875 4-Epicurcumenol**

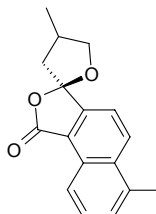
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{26} = +120.1^\circ$ ($c = 1.8$, CHCl₃). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (40.1±1.4)%, control L-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**6876 Epicurzerenone**

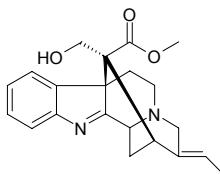
$C_{15}H_{18}O_2$ (230.31). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 6.

**6877 Epidanshenspiroketallactone**

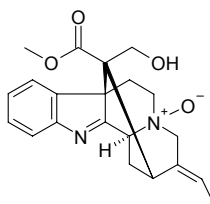
$C_{17}H_{16}O_3$ (268.32). Source: DAN SHEN *Salvia miltiorrhiza*, GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 1521, 4538.

**6878 16-Epideacetylakuammiline**

$C_{21}H_{24}N_2O_3$ (352.44). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

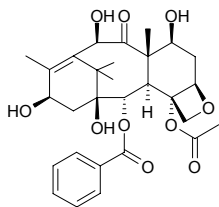
**6879 16-Epideacetylakuammiline N(4)-oxide**

$C_{21}H_{24}N_2O_4$ (368.44). $[\alpha]_D = -66^\circ$ ($c = 0.15$, CHCl₃). Source: MA LAI XI YA RUI MU *Kopsia griffithii*. Ref: 1854.

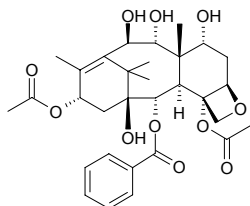


6880 13-Epi-10-deacetylbaccatin III

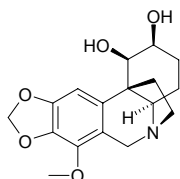
$C_{29}H_{36}O_{10}$ (544.60). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**6881 7-Epi-9,10-deacetylbaccatin VI**

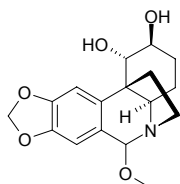
$C_{31}H_{40}O_{11}$ (588.66). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.

**6882 1-Epideacetylbowdensine**

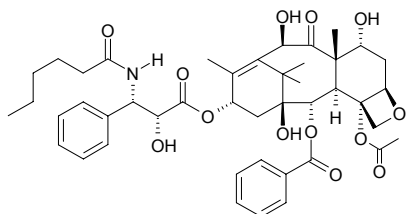
$C_{17}H_{21}NO_5$ (319.36). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

**6883 1-Epideacetylbowdensine‡**

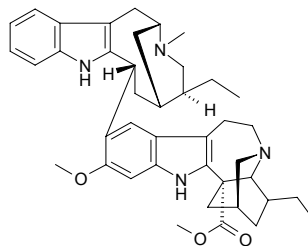
$C_{17}H_{21}NO_5$ (319.36). Source: *Crinum moorei*. Ref: 4952.

**6884 7-Epi-10-deacetyltaxuyunnanine A**

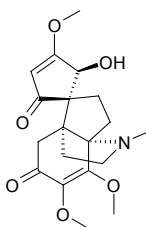
7-Epi-10-deacetyltaxol; Taxuspinanane E $C_{44}H_{55}NO_{13}$ (805.93). $[\alpha]_D = -22.9^\circ$ (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

**6885 20-Epi-16'-decarbomethoxy-conoduramine**

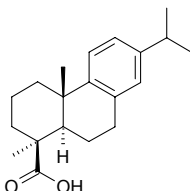
$C_{41}H_{54}N_4O_3$ (650.91). Source: YAO YONG GOU YA HUA *Ervatamia officinalis*. Ref: 799.

**6886 1-Epidechloroacutumine**

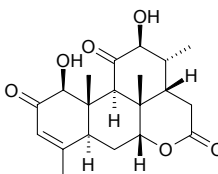
$C_{19}H_{25}NO_6$ (363.41). $[\alpha]_D^{25} = -45^\circ$ ($c = 0.2$, MeOH). Source: BIAN FU GE *Menispermum dauricum*. Ref: 1946.

**6887 4-Epidehydroabietic acid**

[5155-70-4] $C_{20}H_{28}O_2$ (300.44). White amorphous powder. Source: JIA DI FENG PI *Illicium jiadifengpi* (bark). Ref: 4560.

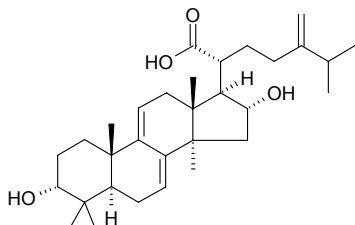
**6888 12-Epi-11-dehydroklaineanone**

$C_{20}H_{26}O_6$ (362.43). Colorless glassy resin, $[\alpha]_D^{25} = -11.2^\circ$ ($c = 0.1$, MeOH). Pharm: Plant growth inhibitor (Cucumber seedling, root growth, $IC_{50} > 200\mu\text{mol/L}$; shoot growth, $IC_{50} > 200\mu\text{mol/L}$; Rice seedling, root growth, $IC_{50} > 200\mu\text{mol/L}$; shoot growth, $IC_{50} > 200\mu\text{mol/L}$)^[5215]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (leaf). Ref: 5215.

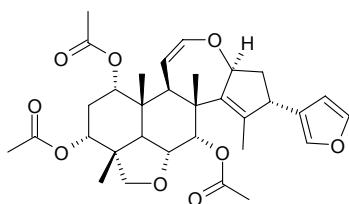


6889 3-Epidehydrotumulosic acid

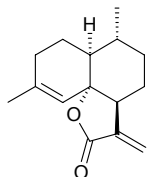
$C_{31}H_{48}O_4$ (484.73). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.00029%dw). **Ref:** 4616.

**6890 17-Epi-12-dehydroxyheudebolin**

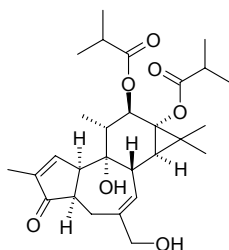
$C_{32}H_{40}O_9$ (568.67). White crystals (hexane-EtOAc), mp 122~124°C, $[\alpha]_D^{20} = -190.1^\circ$ ($c = 1.3$, $CHCl_3$). **Source:** *Turreanthus africanus* (seed). **Ref:** 3884.

**6891 Epideoxyartemisinin B**

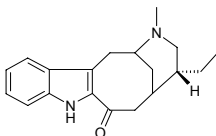
Deoxyisoartemisinin B $C_{15}H_{20}O_2$ (232.33). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 660, 5224.

**6892 4-Epi-4-deoxyphorbol 12,13-bis(isobutyrate)**

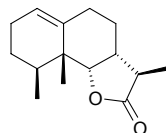
[250258-02-7] $C_{28}H_{40}O_7$ (488.63). Oil, $[\alpha]_D = +3^\circ$ ($c = 0.7$, $CHCl_3$). **Source:** DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. **Ref:** 2365.

**6893 20-Epi-19,20-dihydro-decarbomethoxy vobasine**

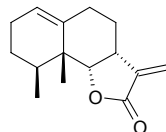
$C_{19}H_{24}N_2O$ (296.42). **Source:** YAO YONG GOU YA HUA *Ervatamia officinalis*. **Ref:** 799.

**6894 5-Epidilatanolide A**

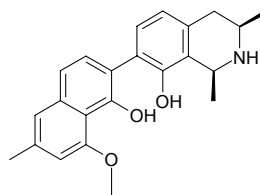
$C_{15}H_{22}O_2$ (234.34). Colorless solid, mp 106~107°C, $[\alpha]_D = -21.5^\circ$ ($c = 0.40$, $CHCl_3$). **Source:** BA XI ER YE TAI *Frullania brasiliensis*. **Ref:** 1981.

**6895 5-Epidilatanolide B**

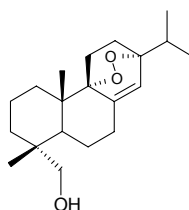
$C_{15}H_{20}O_2$ (232.33). Colorless oil, $[\alpha]_D = +50.8^\circ$ ($c = 0.27$, $CHCl_3$). **Source:** BA XI ER YE TAI *Frullania brasiliensis*. **Ref:** 1981.

**6896 1-Epi-dioncophylline B**

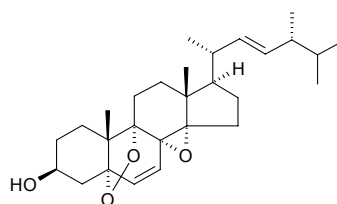
$C_{23}H_{25}NO_3$ (363.46). **Pharm:** Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 155$ ng/mL, NF54, $IC_{50} = 273$ ng/mL, MIC > 200µg/mL). **Source:** SAN YE MU *Triphyophyllum peltatum* (leaf). **Ref:** 3962.

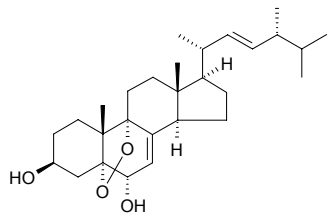
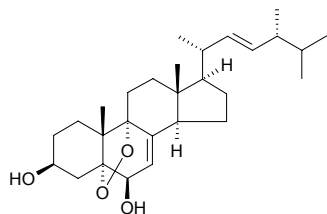
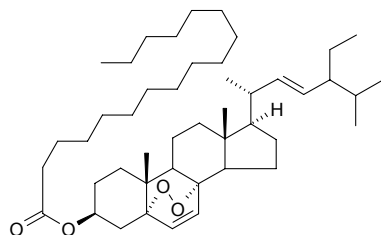
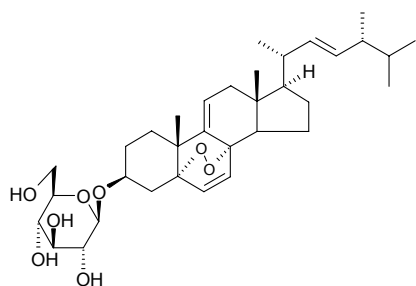
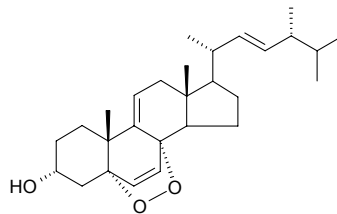
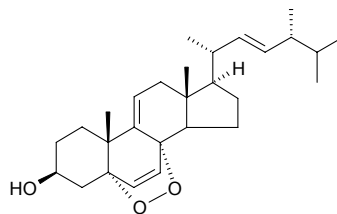
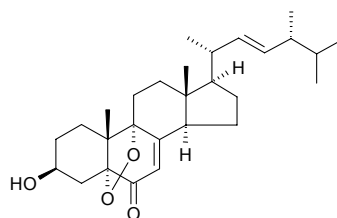
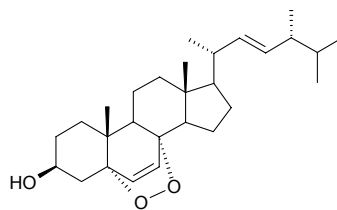
**6897 9α,13α-Epi-dioxiabiet-8(14)-en-18-ol**

$C_{20}H_{32}O_3$ (320.48). Colorless oil, $[\alpha]_D = -51.8^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Cytotoxic (A549, $IC_{50} > 5$ µg/mL; H116, $IC_{50} > 5$ µg/mL; PSN1, $IC_{50} > 5$ µg/mL; T98G, $IC_{50} > 5$ µg/mL; SKBR3, $IC_{50} > 5$ µg/mL). **Source:** BEI FEI XUE SONG *Cedrus atlantica* (cone). **Ref:** 5248.

**6898 5α,9α-Epidioxy-8α,14α-epoxy-(22E)-ergosta-6,22-dien-3β-ol**

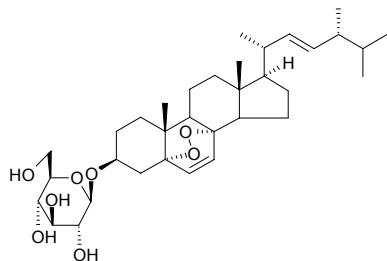
$C_{28}H_{42}O_4$ (442.64). Colorless amorphous solid, $[\alpha]_D^{19} = -33.9^\circ$ ($c = 0.06$, $CHCl_3$). **Source:** HOU SHU SHAN GU *Panellus serotinus*, *Pleurotus eryngii*. **Ref:** 4183.



6899 5 α ,9 α -Epidioxy-(22E)-ergosta-7,22-diene-3 β ,6 α -diolC₂₈H₄₄O₄ (444.66). Amorphous powder, [α]_D²³ = -8.8° (c = 0.1, CHCl₃).Source: HOU SHU SHAN GU *Panellus serotinus*. Ref: 3526.**6900 5 α ,9 α -Epidioxy-(22E)-ergosta-7,22-diene-3 β ,6 β -diol**C₂₈H₄₄O₄ (444.66). Amorphous powder, [α]_D¹⁹ = -24.4° (c = 0.08, CHCl₃).Source: ZI DING XIANG MO *Lepista nuda*, HOU SHU SHAN GU *Panellus serotinus*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*], *Pleurotus eryngii*. Ref: 3526, 4183.**6901 5 α ,8 α -Epidioxyergosta-6,22-dien-3 β -yl stearate**C₄₆H₇₈O₄ (695.18). White amorphous powder, [α]_D²⁵ = +13° (c = 0.2, CH₂Cl₂). Pharm: Antitubercular (*Mycobacterium tuberculosis* growth inhibitor, MIC = 4 μ g/mL). Source: *Ruprechtia triflora* (aerial parts).Ref: 5416.**6902 (22E,24R)-5 α ,8 α -Epidioxyergosta-6,9,22-triene-3 β -ol 3-O- β -D-glycopyranoside**C₃₄H₅₂O₈ (588.79). Amorphous powder, [α]_D²⁵ = +5.6° (c = 2.0, MeOH).Source: *Chlorophyllum molybdites*. Ref: 4112.**6903 5 α ,8 α -Epidioxyergosta-6,9(11),22-trien-3 α -ol**C₂₈H₄₂O₃ (426.65). Source: JIA LIAN QIAO *Duranta repens* (whole herb).Ref: 4179.**6904 5 α ,8 α -Epidioxyergosta-6,9(11),22-trien-3 β -ol**9(11)-Dehydroergosterol peroxide C₂₈H₄₂O₃ (426.65). White needles (EtOAc).Source: AI LI SI DUO KONG JUN *Polyporus ellisii*, JIA LIAN QIAO *Duranta repens* (whole herb). Ref: 2435, 4179.**6905 5 α ,9 α -Epidioxy-3 β -hydroxy-(22E)-ergosta-7,22-dien-6-one**C₂₈H₄₂O₄ (442.64). Source: *Pleurotus eryngii*. Ref: 4183.**6906 5 α ,8 α -Epidioxy-24(R)-methylcholesta-6,22-diene-3 β -ol**Ergosterol peroxide C₂₈H₄₄O₃ (428.66). Colorless needles, mp 180~182°C,[α]_D = -33.3 (c = 0.3, CHCl₃). Pharm: DNA Topoisomerase I Inhibitor (inhibits the relaxation of supercoiled DNA (pBR322) induced by DNA topoisomerase I); cytotoxic (marginal activity, selective cytotoxic activity against hmn colon tumor cells, Colon205 ED₅₀ = 8.56 μ g/mL). Source: *Penicillium oxalicum*. Ref: 5046.

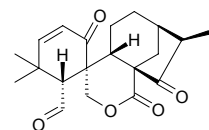
6907 5 α ,8 α -Epidioxy-24(R)-methylcholesta-6,22-dien-3 β -D-glucopyranoside

[140447-22-9] C₃₄H₅₄O₈ (590.80). **Pharm:** Antiproliferative (K562, Jurkat, WM-1341, HL-60 and RPMI-8226 tumor cell lines, 10 μ g/mL, greater inhibitor by 10% to 40% than 5 α , 8 α -Epidioxy-24(R)-methylcholesta-6, 22-dien-3 β -ol). **Source:** DONG CHONG XIA CAO *Cordyceps sinensis*. **Ref:** 2322.



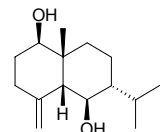
6908 Epi-ericalyxin A

C₂₀H₂₄O₅ (344.41). **Source:** MAO E XIANG CHA CAI *Rabdosia ericalyx*. **Ref:** 4067.



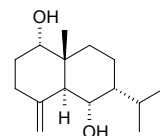
6909 5-Epi-eudesm-4(15)-ene-1 β ,6 β -diol

C₁₅H₂₆O₂ (238.37). Colorless monoclinic crystals (petroleum ether–EtOAc), [α]_D²⁰ = –88° (c = 0.6, CHCl₃); white powder, [α]_D²⁰ = +36.5° (c = 0.32, CHCl₃). **Pharm:** Anti-HIV (MT-2 cell infected by HIV-IIIB virus, 10 μ g/mL, weak activity)^[4786]; anti-HIV-1 (HIV-1 replication inhibitor *in vitro*, HOG.R5, IC₅₀ = 17.4 μ g/mL (73.1 μ mol/L), cytotoxic, 20 μ g/mL, inactive)^[4688]. **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00011%dw), ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). **Ref:** 4688, 4786.



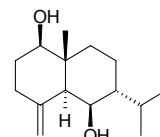
6910 7-Epieudesm-4(15)-ene-1 α ,6 α -diol

C₁₅H₂₆O₂ (238.37). White powder, [α]_D²⁰ = –35.3° (c = 0.05, CHCl₃). **Pharm:** Anti-HIV-1 inactive (*in vitro*, HOG.R5)^[4688]. **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00015%dw). **Ref:** 4688.



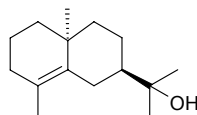
6911 7-Epi-eudesm-4(15)-ene-1 β ,6 β -diol

C₁₅H₂₆O₂ (238.37). White powder, [α]_D²⁰ = –16.0° (c = 0.03, CHCl₃). **Pharm:** Anti-HIV-1 inactive (*in vitro*, HOG.R5). **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00008%dw). **Ref:** 4688.



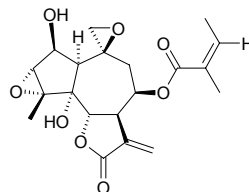
6912 (–)-10-Epi- γ -eudesmol

C₁₅H₂₆O (222.37). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.



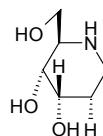
6913 10-Epieupatoroxin

[20071-54-9] C₂₀H₂₄O₈ (392.41). mp 230–232°C, [α]_D²⁶ = –109° (c = 0.33, methanol). **Pharm:** Cytotoxic (KB, ED₅₀ = 2.6 μ g/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.



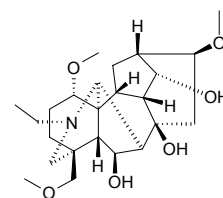
6914 3-Epifagomine

C₆H₁₃NO₃ (147.18). **Pharm:** Lactase inhibitor (isomaltose enzyme inhibitor)^[2513]. **Source:** SANG BAI PI *Morus alba*. **Ref:** 2513.



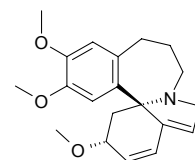
6915 6-Epiforesticine

C₂₄H₃₉NO₆ (437.58). White amorphous powder. **Source:** GUA YE WU TOU *Aconitum hemleyanum*. **Ref:** 2208.



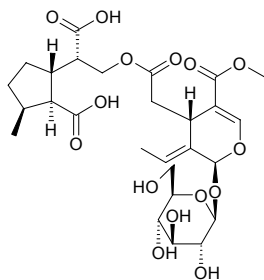
6916 3-Epifortuneine

C₂₀H₂₅NO₃ (327.43). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2.

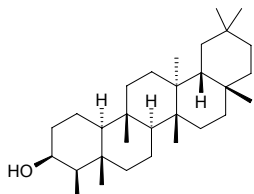


6917 2''-Epiframeroside

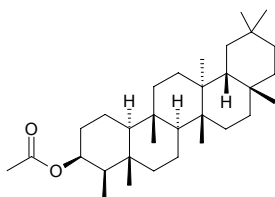
$C_{27}H_{38}O_{15}$ (602.59). Colorless amorphous powder, $[\alpha]_D^{24} = -116^\circ$ ($c = 0.22$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**6918 Epifriedelanol**

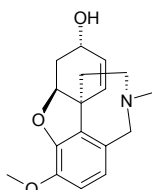
Friedelan-3 β -ol; Friedelinol [16844-71-6] $C_{30}H_{52}O$ (428.75). Colorless acicular crystals, mp 283.5~285.0°C; mp 263~265°C. **Pharm:** NFAT transcription factor inhibitor inactive ($IC_{50} > 50\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.31 \pm 0.01)\mu\text{mol/L}$)^[4511]. **Source:** CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf), DONG FENG CAI *Doellingeria scaber* [Syn. *Aster scaber*], DUO SUI SHI KE YE *Lithocarpus polystachyus*, GUI JIAN YU *Euonymus alatus*, HUO XIANG *Agastache rugosus*, HUO YANG LE *Euphorbia antiquorum*, KU DI DAN *Elephantopus scaber*, KU HAO *Conyza blinii*, LIANG YE YAN DOU TENG *Milletia nitida*, LONG YAN YE *Euphorbia longan* [Syn. *Dimocarpus longan*], NAN ZHU ZI *Vaccinium bracteatum*, QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*], TIAO JING CAO *Euonymus japonicus*, XI YUAN TENG *Pericampylus glaucus*, XUAN FU HUA *Inula britannica*, YU DAI GEN *Pedilanthus tithymaloides*, ZI WAN *Aster tataricus*. **Ref:** 6, 505, 596, 660, 4511.

**6919 Epifriedelinol acetate**

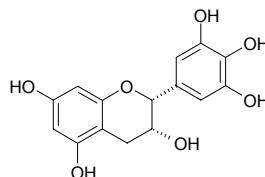
$C_{32}H_{54}O_2$ (470.79). mp 282~285°C. **Source:** QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*], YU DAI GEN *Pedilanthus tithymaloides*. **Ref:** 6.

**6920 2-Epigalanthamine**

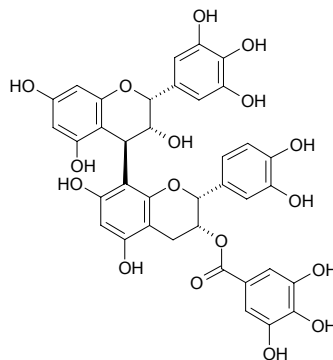
[1668-85-5] $C_{17}H_{21}NO_3$ (287.36). mp 190°C. **Source:** SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. **Ref:** 6.

**6921 L-Epigallocatechin**

(-)-Epigallocatechin [970-74-1] $C_{15}H_{14}O_7$ (306.27). mp 227°C. **Pharm:** Angiotensin I-converting enzyme inhibitor; platelet aggregation inhibitor (rbt, stronger than aspirin, weaker than persantin); antibacterial (*Bacillus typhosus*, *Bacillus paratyphosus*, *Staphylococcus hemolyticus flavus*, *Staphylococcus aureus*); cytotoxic (HeLa, *in vitro*); antispasmodic (rat); lipoxidase inhibitor (soy, $IC_{50} = 10\sim 20\mu\text{mol/L}$); inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, InRt = 27.8%)^[4329]; antioxidant (DPPH free radical scavenger, for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} = 2.5\mu\text{mol/L}$)^[4378]; bone marrow cell proliferation promotor (100mg/mL , stimulates formation of myeloid colonies)^[5390]; inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $100\mu\text{mol/L}$, InRt = (12.6 \pm 4.2)%), control Curcumin, $100\mu\text{mol/L}$, InRt = (62.6 \pm 1.0)%, did not affect the enzyme activity of β -hexosaminidase)^[4163]. **Source:** A LA BO JIAO JIN HE HUAN *Acacia nilotica*, AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), YANG MEI SHU PI *Myrica rubra* (bark; yield = 0.0066%)^[4163]. **Ref:** 6, 612, 1564, 1565, 1566, 1567, 1568, 1569, 3094, 4163, 4329, 4378, 5375, 5390.

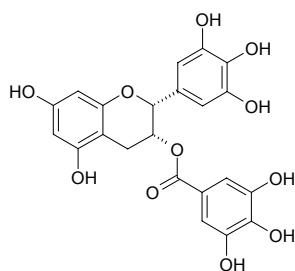
**6922 Epigallocatechin-(4 β →8)-epicatechin-3-O-gallate ester**

$C_{37}H_{30}O_{17}$ (746.64). **Pharm:** Tanning agent. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 658.

**6923 Epigallocatechin 3-gallate (EGCG)**

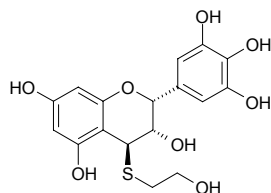
(-)-Epigallocatechin-3-O-gallate [989-51-5] $C_{22}H_{18}O_{11}$ (458.38). mp 215~216°C; $[\alpha]_D^{25} = -121.2^\circ$ ($c = 0.99$, acetone). **Pharm:** Special spicery of tea; inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, InRt = 72.8%, $5\mu\text{g/mL}$, InRt = 59.7%)^[4329]; bone marrow cell proliferation promotor (100mg/mL , stimulates formation of myeloid colonies)^[5390]; 5 α -reductase inhibitor inactive ($IC_{50} > 1\text{mmol/L}$; control Finasteride, $IC_{50} = (0.38 \pm 0.06)\mu\text{mol/L}$; α -Linolenic acid, $IC_{50} = (160.3 \pm 24.6)\mu\text{mol/L}$)^[5398];

inhibits cell proliferation of PBMC (activated by phytohemagglutinin (PHA), $IC_{50} = 28.9 \mu\text{mol/L}$, inhibitory mechanism may involve the blocking of IL-2 and IFN- γ production)^[4100]; TNF- α release inhibitor (BALB/3T3 cells, okadaic acid-stimulated, mean $IC_{50} = 26 \mu\text{mol/L}$)^[4416]; anti-inflammatory (NF- κ B pathway)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; anti-inflammatory (modulator of cytokine network: leukocyte elastase MMP-2/9 inhibitor)^[4416]; antioxidant (DPPH scavenger, $IC_{50} = (1.13 \pm 0.08) \mu\text{mol/L}$)^[3848]; antioxidant (hydroxyl radical scavenger, $IC_{50} = 0.43 \mu\text{mol/L}$)^[4499]; antioxidant (superoxide anion radical scavenger, $IC_{50} = 0.53 \mu\text{mol/L}$)^[4499]. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, MEI ZHOU JIN LV MEI *Hamamelis virginiana*, YOU GAN YE *Phyllanthus emblica* (branch and leaf), YANG PU TAO YE *Syzygium samarangense*, MAO GUO QI *Acer nikoense*, MAO YANG MEI *Myrica esculent*, YE WU TONG *Mallotus japonicus*. Ref: 6, 658, 1521, 3848, 4100, 4205, 4329, 4415, 4416, 4499, 5390, 5398.



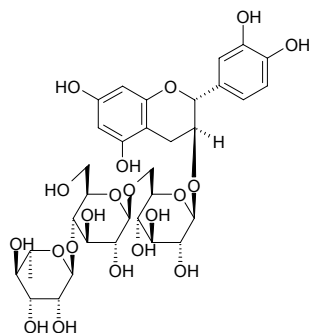
6924 (-)-Epigallocatechin 4-(2-hydroxyethyl)thio ether

$C_{17}H_{18}O_8S$ (382.39). Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.



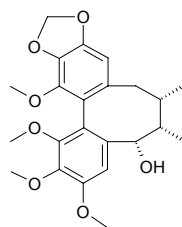
6925 Epigeoside

Catechin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{33}H_{44}O_{20}$ (760.71). Colorless powder, mp 165–168°C, $[\alpha]_D^{20} = -32.5^\circ$ ($c = 1.05$, methanol). Source: SI MAO TENG *Epigynum auritum*. Ref: 208.



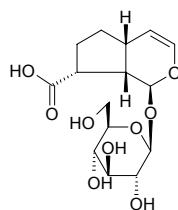
6926 Epigomisin O

[73036-31-4] $C_{23}H_{28}O_7$ (416.48). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.



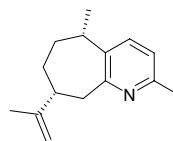
6927 8-Epi-grandifloric acid

$C_{15}H_{22}O_9$ (346.34). Amorphous powder, $[\alpha]_D^{19} = +55.4^\circ$ ($c = 0.98$, MeOH). Source: TAI GUO SHAN QIAN NIU *Thunbergia laurifolia*. Ref: 1968.



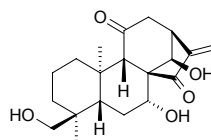
6928 Epiguaiipyridine

Guaipyridine [41447-48-7] $C_{15}H_{21}N$ (215.34). Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2, 6, 660.



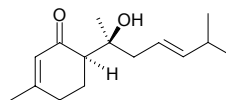
6929 4-Epihenryne

Henryne A; Amethystoidin A $C_{20}H_{28}O_5$ (348.44). mp 264–267°C, $[\alpha]_D^{25} = +30.8^\circ$ ($c = 4.5$, C_5H_5N). Source: E XI XIANG CHA CAI *Isodon henryi*. Ref: 4067.



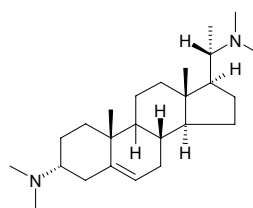
6930 (-)-Epihernandulcin

$C_{15}H_{24}O_2$ (236.36). Source: TIAN SHE CAO *Lippia dulcis* (aerial parts). Ref: 4508.



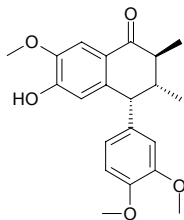
6931 Epiheteroconessine

[In DNP] $C_{25}H_{44}N_2$ (372.64). mp 148–150°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

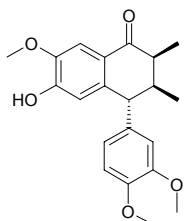


6932 (-)-8,8'R-Epi-holostylone

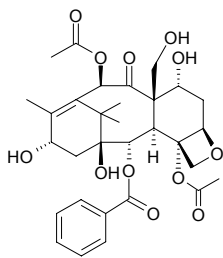
(7'R,8S,8'R)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7'-cyclolignan-7-one C₂₁H₂₄O₅ (356.42). Amorphous yellow solid, $[\alpha]_D^{25} = -171.6^\circ$ ($c = 0.32$, CHCl₃). Source: *Holostylis reniformis* (root). Ref: 3784.

**6933 (-)-8,8'S-Epi-holostylone**

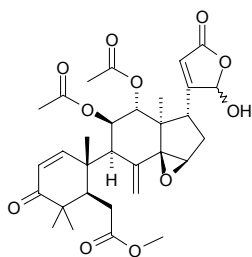
(7'R,8S,8'S)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7'-cyclolignan-7-one C₂₁H₂₄O₅ (356.42). Yellow crystals, mp 169.0~172.0°C, $[\alpha]_D^{25} = -40.6^\circ$ ($c = 1.23$, CHCl₃). Source: *Holostylis reniformis* (root). Ref: 3784.

**6934 7-Epi-19-hydroxybaccatin III**

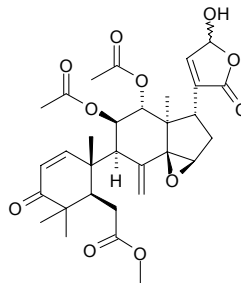
C₃₁H₃₈O₁₂ (602.64). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**6935 11-Epi-21-hydroxytoonacilide**

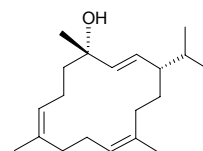
C₃₁H₃₈O₁₁ (586.64). White crystals, mp 124~126°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**6936 11-Epi-23-hydroxytoonacilide**

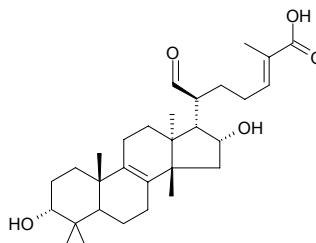
C₃₁H₃₈O₁₁ (586.64). White crystals, mp 139~142°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**6937 4-Epiisocembrol**

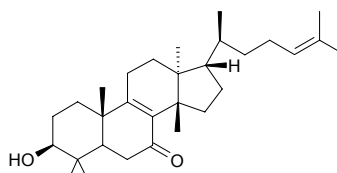
C₂₀H₃₄O (290.49). Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

**6938 3-Epi-isomasticadienolalic acid**

C₃₀H₄₆O₅ (486.70). $[\alpha]_D^{25} = +23.6^\circ$ ($c = 0.5$, CHCl₃). Pharm: Anti-inflammatory (chronic inflammation model, in the form of eczema, provoked by repeated administration of TPA to the ears of mouse, swelling reduction = 39%, control Dexamethasone, swelling reduction = 85%; reduces leukocyte infiltration, measured as tissue peroxidase activity, InRt = 57%, Dexamethasone, InRt = 55%); toxic (rat peritoneal polymorphonuclear leukocytes, 100μmol/L). Source: ROU MAO XIAO RU XIANG *Schinus molle* (fruit). Ref: 5459.

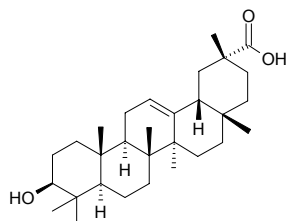
**6939 Epi-kansene**

Tirucalla-8,24-diene-3β-ol-7-one C₃₀H₄₈O₂ (440.72). Colorless gum, $[\alpha]_D^{23} = -10.2^\circ$ ($c = 0.43$, MeOH). Pharm: Cell division arrester (cultured individual *Xenopus laevis* cells at blastular stage, 10μg/mL, >50% cleavage arrest). Source: GAN SUI *Euphorbia kansui* (dried root: yield = 0.00008%). Ref: 4690.

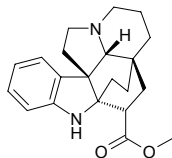


6940 3-Epikatonin acid

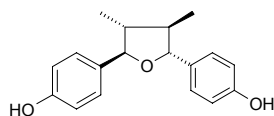
[76035-62-6] $C_{30}H_{48}O_3$ (456.72). Colorless acicular crystals, mp 284~286°C (MeOH). **Pharm:** Spermicidal (mus, 0.125mg/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 60, 670, 1572.

**6941 16-Epikopsinine**

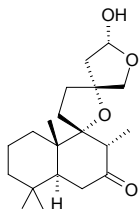
$C_{21}H_{26}N_2O_2$ (338.45). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

**6942 4-Epi-larreatricin**

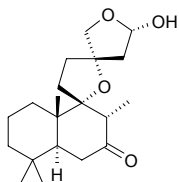
8'-Epi-larreatricin $C_{18}H_{20}O_3$ (284.36). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} = (18.0 \pm 2.5) \mu\text{g/mL}$; control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 50.0 \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$)^[3850]. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 1521, 3850.

**6943 15-Epileoheteronone B**

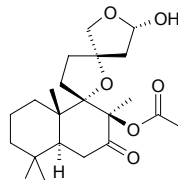
$C_{20}H_{32}O_4$ (336.48). White amorphous powder. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4534.

**6944 15-Epileoheteronone D**

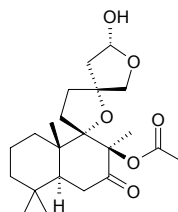
$C_{20}H_{32}O_4$ (336.48). White amorphous powder. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4534.

**6945 15-Epileoheteronone E**

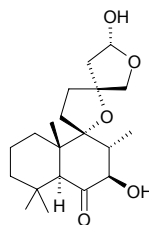
$C_{22}H_{34}O_6$ (394.51). White amorphous powder. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4534.

**6946 15-Epileopersin B**

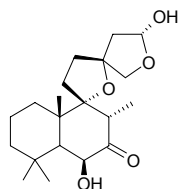
$C_{22}H_{34}O_6$ (394.51). White powder. **Source:** BO SI YI MU CAO *Leonurus persicus*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 2499, 4534.

**6947 15-Epileopersin C**

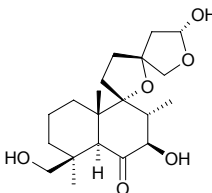
$C_{20}H_{32}O_5$ (352.48). Oil liquid. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts), BO SI YI MU CAO *Leonurus persicus*. **Ref:** 4534, 2499.

**6948 15-Epi-leopersin J**

$C_{20}H_{32}O_5$ (352.48). Oil liquid. **Source:** BO SI YI MU CAO *Leonurus persicus*. **Ref:** 2499.

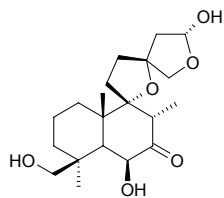
**6949 15-Epi-leopersin O**

$C_{20}H_{32}O_6$ (368.47). Oil liquid. **Source:** BO SI YI MU CAO *Leonurus persicus*. **Ref:** 2499.

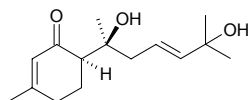


6950 15-Epi-leopersin Q

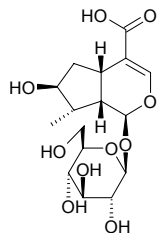
$C_{20}H_{32}O_6$ (368.47). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**6951 Epilippidulcine A**

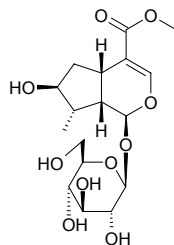
$C_{15}H_{24}O_3$ (252.36). Colorless oil, $[\alpha]_D^{31} = -118.4^\circ$ ($c = 0.5$, $CHCl_3$). Source: TIAN SHE CAO *Lippia dulcis* (aerial parts). Ref: 4508.

**6952 8-Epiloganic acid**

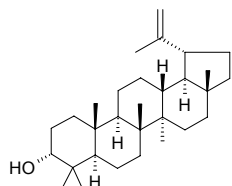
$C_{16}H_{24}O_{10}$ (376.36). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], ROU CONG RONG *Cistanche deserticola*. Ref: 2, 502, 628, 3954.

**6953 8-Epiloganin**

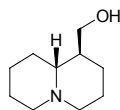
$C_{17}H_{26}O_{10}$ (390.39). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0003%dw)^[4723], TIAN SHE CAO *Lippia dulcis* (aerial parts). Ref: 4508, 4723.

**6954 3-Epilupeol**

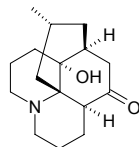
$C_{30}H_{50}O$ (426.73). Pharm: Cytotoxic (hmn fibrosarcoma cells HT1080, $ED_{50} > 100\mu g/mL$; control Adriamycin, $ED_{50} = 0.1\mu g/mL$)^[4437]. Source: LIE WEI LIE LAN *Bursera graveolens* (stem), RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4437, 4502.

**6955 Epilupinine**

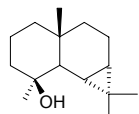
Isolupinine [486-71-5] $C_{10}H_{19}NO$ (169.27). mp 77~78°C. Source: *Lupinus varius*. Ref: 1521.

**6956 12-Epilycodoline**

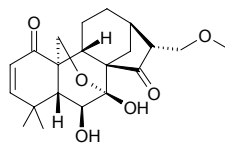
$C_{16}H_{25}NO_2$ (263.38). $[\alpha]_D^{25} = -44^\circ$ (MeOH). Source: DONG BEI SHI SHAN *Huperzia myoschiana*. Ref: 5412.

**6957 (-)-4-Epi-maaliol**

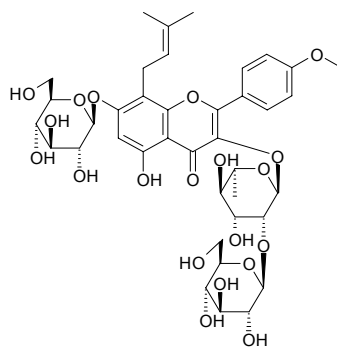
$C_{15}H_{26}O$ (222.37). Colorless oil. Source: TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). Ref: 5257.

**6958 Epi-maoecrystal P**

$C_{21}H_{28}O_6$ (376.45). mp 222~224°C, $[\alpha]_D^{25} = -14.2^\circ$ ($c = 0.62$, $CHCl_3$). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

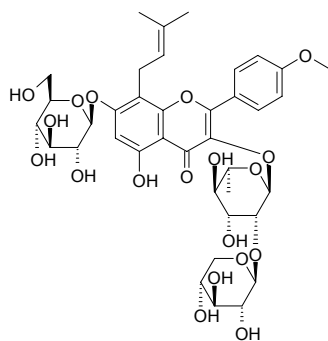
**6959 Epimedin A**

4'-Methoxy-5-hydroxy-8-3,3-dimethylallyl-flavone-3-glucosyl-(1→2)rhamnose-7-glucoside [110623-72-8] $C_{39}H_{50}O_{20}$ (838.82). Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 0.345%^[5508]), YIN YANG HUO *Epimedium brevicornum*. Ref: 2,660, 1521, 5508.

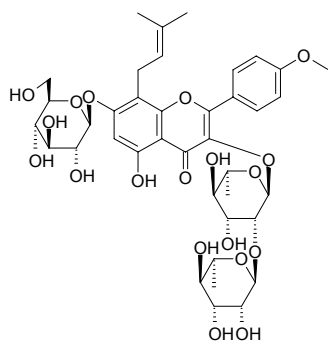


6960 Epimedinin B

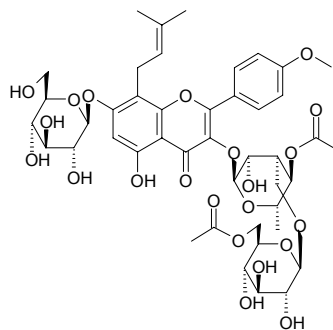
4'-Methoxy-5-hydroxy-8-3,3-dimethyl allylflavone-3-xyloxy-(1→2)rhamnoside-7-glucoside [110623-73-9] C₃₈H₄₈O₁₉ (808.79). **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content scope = 0.39%~1.24%, mean content = 0.82%^[5508]), CHUAN E YIN YANG HUO *Epimedium fargesii*, JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: mean content of 3 origins = 0.552%^[5508]), ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content = 0.739%^[5508]) WU SHAN YIN YANG HUO *Epimedium wushanense* (aerial parts: mean content of 2 origins = 0.349%^[5508]), YIN YANG HUO *Epimedium brevicornum* (aerial parts: mean content of 2 origins = 1.09%^[5508]), *Epimedium* spp. **Ref:** 2, 567, 660, 1521, 5508.

**6961 Epimedinin C**

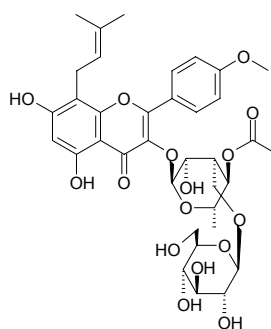
4'-Methoxy-5-hydroxy-8-3,3-dimethyl allylflavone-3-rhamnosyl-(1→2)rhamnoside-7-glucoside [110642-44-9] C₃₉H₅₀O₁₉ (822.82). Yellow powder, mp 240~245°C, soluble in methanol. **Pharm:** Immunoenhancer (enhances multiplication of lymphocyte, recovers to produce interleukin-2). **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content scope = 0.19%~0.89%, mean content = 0.61%^[5508]), CHUAN DIAN YIN YANG HUO *Epimedium davidii*, CHUAN E YIN YANG HUO *Epimedium fargesii*, CU MAO YIN YANG HUO *Epimedium acuminatum* (aerial parts: content = 2.18%^[5508]), JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: content scope = 0.39%~1.60%, mean content = 1.09%^[5508]), QIAN LING YIN YANG HUO *Epimedium leptorrhizum* (aerial parts: content = 1.56%^[5508]), ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content scope = 1.14%~1.36%, mean content = 1.25%^[5508]), TIAN PING SHAN YIN YANG HUO *Epimedium myrianthum* (aerial parts: content = 2.22%^[5508]), WU SHAN YIN YANG HUO *Epimedium wushanense* (aerial parts: content scope = 1.63%~3.11%, mean content = 2.37%^[5508]), YIN YANG HUO *Epimedium brevicornum* (aerial parts: mean content of 2 origins = 1.141%^[5508]). **Ref:** 2, 114, 540, 567, 623, 624, 660, 1521, 1784, 5508.

**6962 Epimedokoreanoside I**

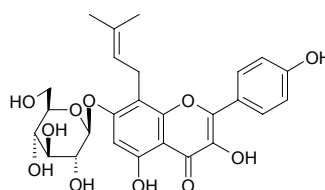
[130756-11-5] C₄₄H₅₆O₂₂ (936.92). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 2.

**6963 Epimedokoreanoside II**

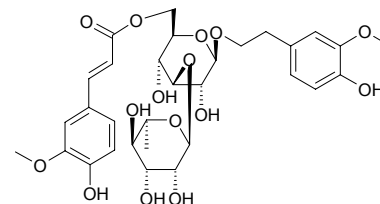
[130756-12-6] C₃₆H₄₄O₁₆ (732.74). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 2.

**6964 Epimedeside C**

[53394-98-4] C₂₆H₂₈O₁₁ (516.51). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 2, 112.

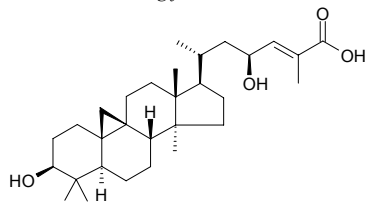
**6965 Epimeredinoside A**

2-(3-Methoxy-4-hydroxy) phenyl ethanol 1-O-α-L-[(1→3)-rhamnopyranosyl-6-O-feruloyl] glucoside C₃₁H₄₀O₁₅ (652.66). Yellowish amorphous powder, mp 140~141°C (MeOH). **Source:** GUANG FANG FENG *Anisomeles indica* [Syn. *Epimeredi indica*] (whole herb). **Ref:** 4592.

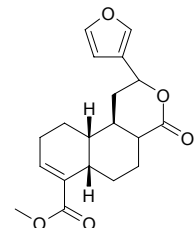


6966 23-Epimeric 3 β ,23-dihydroxycycloart-24-en-26-oic acid

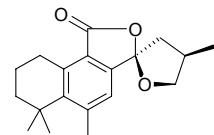
C₃₀H₄₈O₄ (472.71). Shining crystals (CHCl₃-MeOH), mp 240~242°C. Source: MANG GUO *Mangifera indica*. Ref: 1868.

**6967 12-Epi-methyl-barbascoate**

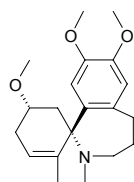
C₁₉H₂₂O₅ (330.38). Source: WU LU BA DOU *Croton urucurana*. Ref: 4552.

**6968 Epi-6-methylcryptoacetalide**

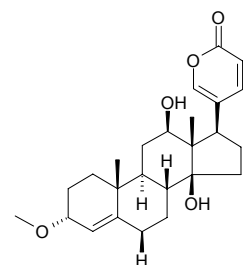
C₁₉H₂₄O₃ (300.40). Source: AI JI SHU WEI CAO *Salvia aegyptiaca*. Ref: 1919.

**6969 3-Epimethylschelhammericine B**

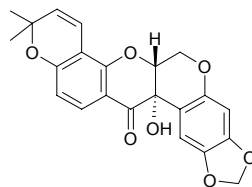
C₂₀H₂₇NO₃ (329.44). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 27.

**6970 3-Epi-O-Methyl-scilliphaeosidin**

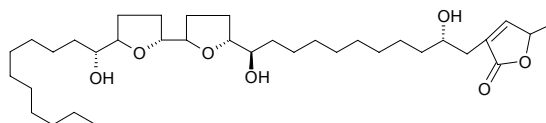
C₂₅H₃₄O₅ (414.55). Amorphous powder. [α]_D²⁸ = +49.9° (c = 0.66, MeOH). Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

**6971 12a-Epimillettosin**

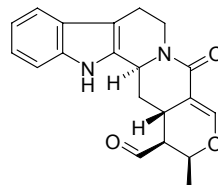
C₂₂H₁₈O₇ (394.38). Pharm: Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, IC₅₀ = 22.2 μmol/L, control Chloroquine, IC₅₀ = 0.094 μmol/L, control Quinine, IC₅₀ = 0.209 μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, IC₅₀ = 19.4 μmol/L, control Chloroquine, IC₅₀ = 0.009 μmol/L, control Quinine, IC₅₀ = 0.044 μmol/L). Source: *Millettia usaramensis* ssp. *usaramensis*. Ref: 3454.

**6972 22-Epimolvizarin**

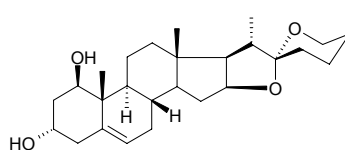
C₃₅H₆₂O₇ (594.88). White solid, mp 104~105°C, [α]_D = +19.3° (c = 0.064, MeOH). Source: FAN LI ZHI *Annona squamosa*. Ref: 886.

**6973 17-Epinaucleidinal**

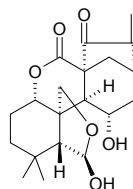
[77513-46-3] C₂₀H₂₀N₂O₃ (336.39). [α]_D = +97.7 (c = 0.085, EtOH). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178.

**6974 3-Epineoruscogenin**

Spirost-5,25(27)-dien-1 β ,3 γ -diol C₂₇H₄₀O₄ (428.62). Colorless prisms, [α]_D²⁴ = -61.7° (c = 1.67, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

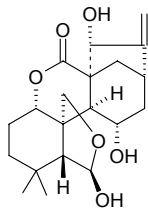
**6975 Epinodosin**

C₂₀H₂₆O₆ (362.43). mp 245~248°C, [α]_D²⁷ = -200° (c = 0.027, C₅H₅N). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067, 4067, 4353.

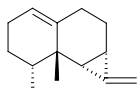


6976 Epinodosinol

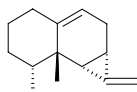
$C_{20}H_{28}O_6$ (364.44). mp 236–238°C. Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

**6977 4-Epi-11-nor-aristola-1(10),11-diene**

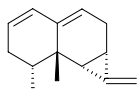
$C_{14}H_{20}$ (188.32). Colorless oil. Source: RI BEN BIAN TAI *Bazzania japonica*. Ref: 3399.

**6978 4-Epi-11-nor-aristola-9,11-diene**

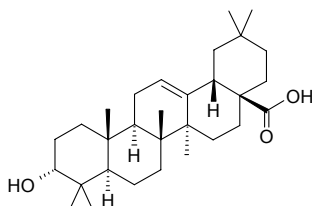
$C_{14}H_{20}$ (188.32). Colorless oil. Source: RI BEN BIAN TAI *Bazzania japonica*. Ref: 3399.

**6979 4-Epi-11-nor-aristola-1,9,11-triene**

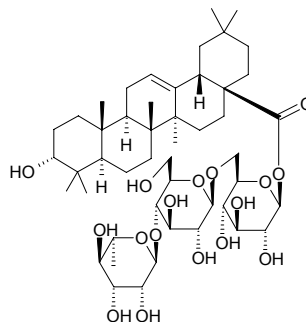
$C_{14}H_{18}$ (186.30). Colorless oil. Source: RI BEN BIAN TAI *Bazzania japonica*. Ref: 3399.

**6980 3-Epioleanolic acid**

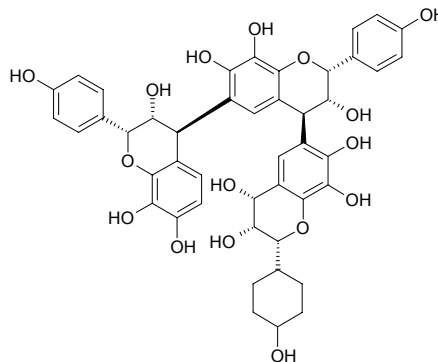
[25499-90-5] $C_{30}H_{48}O_3$ (456.72). Pharm: Gastroprotective (30 mg/kg, Gp = (88.8±5.1)%; control Carbenoxolone, Gp = (88.4±5.4)%, $p < 0.05$)^[5461]. Source: SHOU LIAN LIANG YI MU *Amphipterygium adstringens* (stem cortex), SU HE XIANG *Liquidambar orientalis*. Ref: 6, 5461.

**6981 3-Epi-oleanolic acid-28-O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

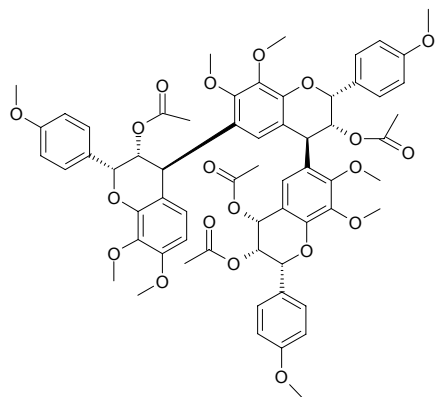
3β-Hydroxyolean-12-en-28-oic acid *O*-α-*L*-rhamnopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranosyl ester $C_{48}H_{78}O_{17}$ (927.15). White powder, mp 207–209°C, $[\alpha]_D^{20} = -15^\circ$ ($c = 0.4$, methanol). Source: DONG BEI CI REN SHEN *Oplopanax elatus*, SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 370, 660, 4545.

**6982 Epioritin-(4β→6)-epioritin-(4β→6)-epioritin-4α-ol**

$C_{45}H_{44}O_{16}$ (840.84). Source: *Acacia galpinii* (heartwood), *Acacia caffra* (heartwood). Ref: 3753.

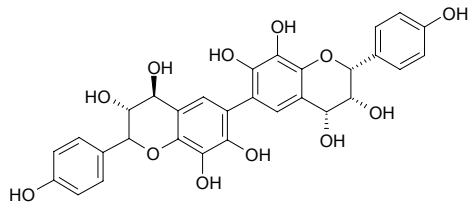
**6983 Epioritin-(4β→6)-epioritin-(4β→6)-epioritin-4α-ol nona-O-methyl-ether tetra-acetate**

$C_{62}H_{64}O_{20}$ (1129.19). Source: *Acacia galpinii* (heartwood). Ref: 3753.

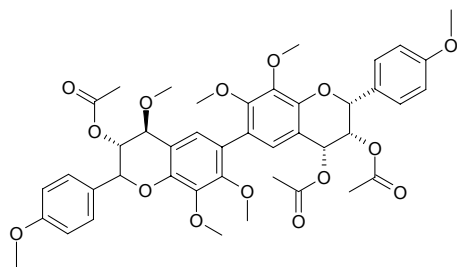


6984 Epioritin-4 α -ol-(6 \rightarrow 6)-epioritin-4 β -ol

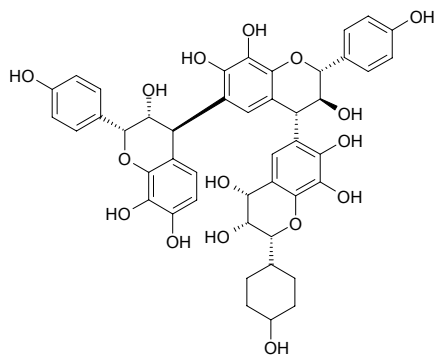
C₃₀H₂₆O₁₂ (578.53). Source: *Acacia galpinii* (heartwood), *Acacia caffra* (heartwood). Ref: 3753.

**6985 Epioritin-4 α -ol-(6 \rightarrow 6)-epioritin-4 β -ol hepta-*O*-methylether triacetate**

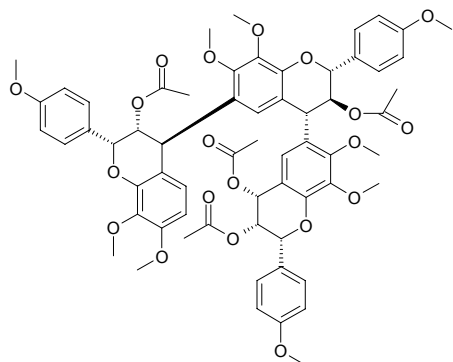
C₄₃H₄₆O₁₅ (802.84). Source: *Acacia galpinii* (heartwood). Ref: 3753.

**6986 Epioritin-(4 β →6)-oritin-(4 α →6)-epioritin-4 α -ol**

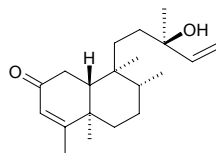
C₄₃H₄₄O₁₆ (840.84). Source: *Acacia galpinii* (heartwood), *Acacia caffra* (heartwood). Ref: 3753.

**6987 Epioritin-(4 β →6)-oritin-(4 α →6)-epioritin-4 α -ol nona-*O*-methyl-ether tetra-acetate**

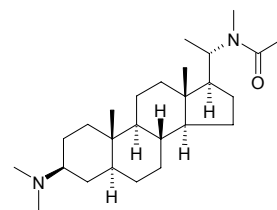
C₆₂H₆₄O₂₀ (1129.19). Source: *Acacia galpinii* (heartwood). Ref: 3753.

**6988 13-Epi-2-oxo-kolavelool**

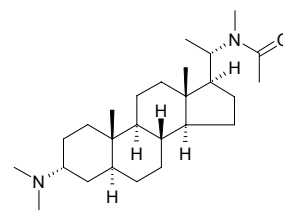
C₂₀H₃₂O₂ (304.48). Colorless amorphous solid, mp 158–159°C (hexane), [α]_D²⁵ = -25.0° (c = 0.10, CHCl₃). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.

**6989 Epipachysamine A**

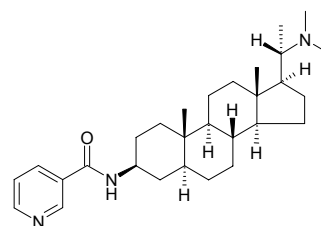
[2309-42-4] C₂₆H₄₆N₂O (402.67). mp 203–205°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6990 Epipachysamine AII**

C₂₆H₄₆N₂O (402.67). Colorless flake crystals (dichloromethane–acetone), mp 201–203°C, [α]_D²⁵ = -17° (c = 1.24). Pharm: Antiulcerative (inhibits secretion hydrochloric acid in gastric juice); LD₅₀ (mus, ip) = 47.2mg/kg, CD₅₀ (mus, ip) = 32.5mg/kg. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 941, 1141, 1197, 1200.

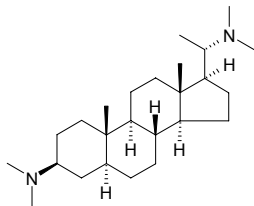
**6991 Epipachysamine B**

[2552-06-9] C₂₉H₄₅N₃O (451.70). mp 260–262°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

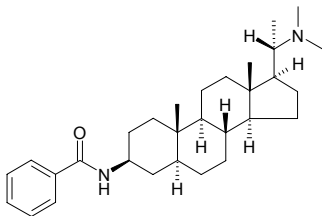


6992 Epipachysamine C

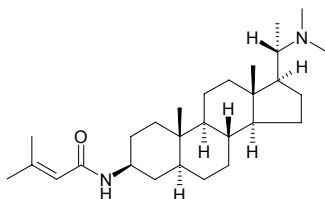
[4215-74-1] C₂₅H₄₆N₂ (374.66). Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6993 Epipachysamine D**

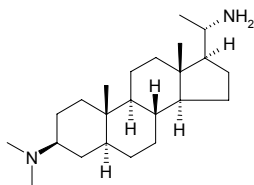
[3697-77-6] C₃₀H₄₆N₂O (450.71). mp 245–248°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6994 Epipachysamine E**

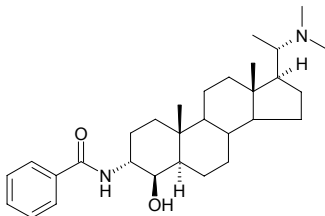
[3697-79-8] C₂₈H₄₆N₂O (428.71). mp 210–212°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6995 Epipachysamine F**

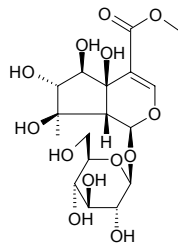
[5141-99-1] C₂₃H₄₂N₂ (346.60). mp 250–253°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6996 Epipachysandrine A**

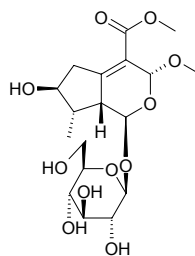
C₃₀H₄₆N₂O₂ (466.71). mp > 295°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**6997 7-Epiphlomiol**

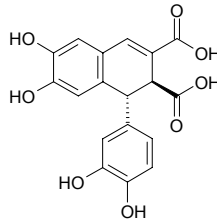
[139757-58-7] C₁₇H₂₆O₁₃ (438.39). Source: MENG GU CAO SU *Phlomis mongolica*. Ref: 561.

**6998 3-Epiphlomurin**

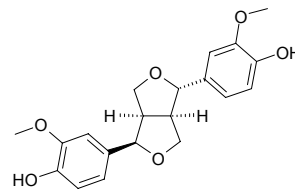
C₁₈H₂₈O₁₁ (420.42). [α]_D²¹ = –22.2° (c = 0.7, MeOH). Source: JIN HUANG CAO SU *Phlomis aurea* (leaf) Ref: 5093.

**6999 Epiphyllic acid**

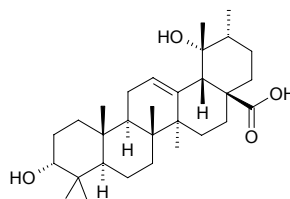
C₁₈H₁₄O₈ (358.31). Source: QIU YUAN YE TAI *Jamesoniella autumnalis*, XI TAI *Pellia epiphylla*. Ref: 1521, 4549.

**7000 (+)-Epipinoresinol**

[24404-50-5] C₂₀H₂₂O₆ (358.39). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

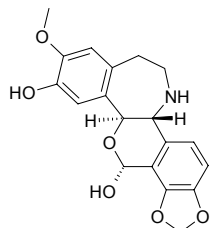
**7001 3-Epipomolic acid**

C₃₀H₄₈O₄ (472.71). Source: DUO SUI PO BU MU *Cordia multispicata* (leaf). Ref: 4106.

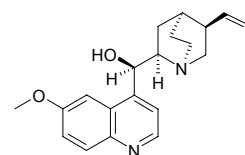


7002 Epiorphoxine

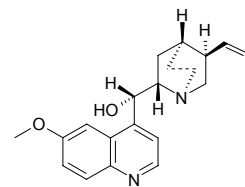
$C_{19}H_{19}NO_6$ (357.37). Source: HUO XIANG YE LV RONG HAO *Meconopsis betonicifolia*, *Papaver* spp. Ref: 1521.

**7003 Epiquinidine**

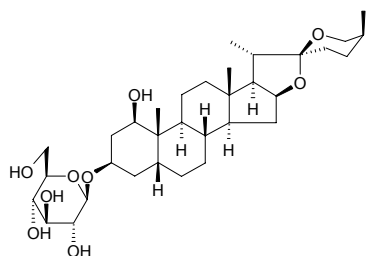
[572-59-8] $C_{20}H_{24}N_2O_2$ (324.43). mp 113°C. Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**7004 Epiquinine**

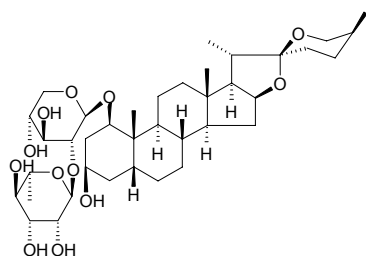
[572-60-1] $C_{20}H_{24}N_2O_2$ (324.43). Source: JIN JI LE *Cinchona ledgeriana*. Ref: 6.

**7005 22-Epirhodeasapogenin-3-O-β-D-glucopyranoside**

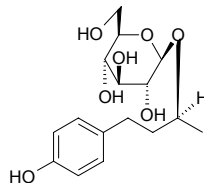
$C_{33}H_{54}O_9$ (594.79). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**7006 22-Epirhodeasapogenin-1-O-α-L-rhamnopyranosyl(1→2)-β-D-xylopyranoside**

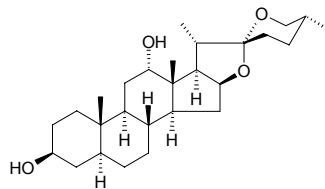
$C_{38}H_{62}O_{12}$ (710.91). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**7007 Epirhododendrin**

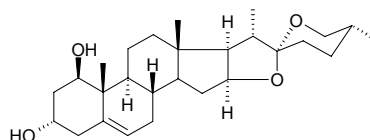
$C_{16}H_{24}O_7$ (328.37). Source: MAO GUO QI *Acer nikoense* (stem cortex). Ref: 4304.

**7008 12-Epirockogenin**

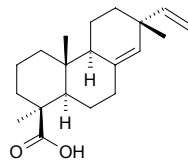
[545-77-7] $C_{27}H_{44}O_4$ (432.65). mp 218°C. Source: FAN MA *Agave americana*, JIAN MA *Agave sisalana*, TAN XIANG *Santalum album*. Ref: 6, 10.

**7009 3-Epiruscogenin**

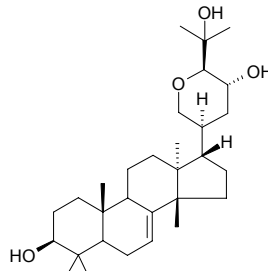
(2*R*)-Spirost-5-en-1β,3α-diol $C_{27}H_{42}O_4$ (430.63). White amorphous powder, $[\alpha]_D^{24} = -63.8^\circ$ ($c = 1.28$, $CHCl_3$). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**7010 4-Epi-sandaracopimaric acid**

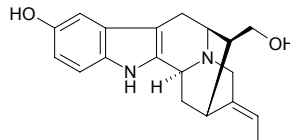
$C_{20}H_{30}O_2$ (302.46). White amorphous powder. Source: JIA DI FENG PI *Illicium jiadifengpi* (bark). Ref: 4560.

**7011 3-Episapeline A**

$C_{30}H_{50}O_4$ (474.73). Source: *Eurycoma* sp. Ref: 4556.

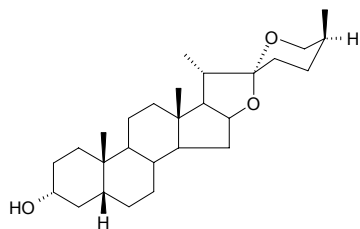
**7012 16-Episarpagine**

$C_{19}H_{22}N_2O_2$ (310.40). Acicular crystals, mp 300°C (dec), $[\alpha]_D^{30} = +34.7^\circ$ ($c = 0.085$, ethanol). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*. Ref: 42.

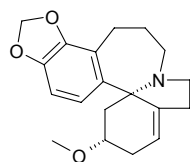


7013 Epi-sarsasapogenin

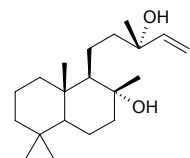
$C_{27}H_{44}O_3$ (416.65). mp 204~206°C, $[\alpha]_D^{29} = -49.6^\circ$ ($c = 0.31$, $CHCl_3$). Source: CHA RUI SHU YU *Dioscorea collettii*. Ref: 10, 24, 660.

**7014 3-Epischelhammericine**

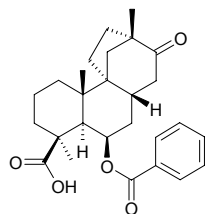
[24204-36-2] $C_{19}H_{23}NO_3$ (313.40). Source: HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*], SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 27, 660.

**7015 13-Epi-sclareol**

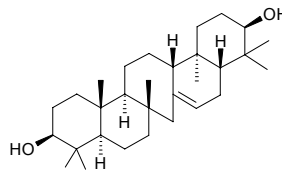
$C_{20}H_{36}O_2$ (308.51). Pharm: Antibacterial (gram-positive bacteria, showing a bactericidal and lytic action, inhibits oxygen consumption of intact gram-positive cells, but not with gram-negative bacteria, NADH oxidase inhibitor, cytochrome C reductase inhibitor). Source: *Pseudognaphalium cheiranthifolium*, *Pseudognaphalium heterotrichum* Ref: 4075.

**7016 4-Episcopadulcic acid B**

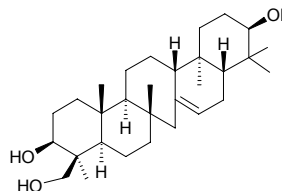
$C_{27}H_{34}O_5$ (438.57). Gum, $[\alpha]_D^{25} = +3.0^\circ$ ($c = 0.50$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, SCL, $ED_{50} = 37\mu\text{mol/L}$; SCL-6, $ED_{50} = 136.9\mu\text{mol/L}$; SCL-376, $ED_{50} = 59.3\mu\text{mol/L}$; SCL-9, $ED_{50} = 48.3\mu\text{mol/L}$; Kato3, $ED_{50} = 124.3\mu\text{mol/L}$; NuGc-4, $ED_{50} = 109.9\mu\text{mol/L}$; control Vinblastine Sulfate: SCL, $ED_{50} = 5.9\mu\text{mol/L}$; SCL-6, $ED_{50} = 6.1\mu\text{mol/L}$; SCL-376, $ED_{50} = 5.3\mu\text{mol/L}$; SCL-9, $ED_{50} = 5.3\mu\text{mol/L}$; Kato3, $ED_{50} = 6.1\mu\text{mol/L}$; NUGC-4, $ED_{50} = 5.3\mu\text{mol/L}$). Source: YE GAN CAO *Scoparia dulcis* (aerial parts: 0.00185%dw). Ref: 4703.

**7017 21-Episerratenediol**

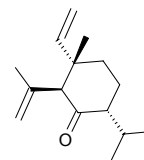
Serratenediol [1449-06-5] $C_{30}H_{50}O_2$ (442.73). Colorless powder, mp 303~308°C, mp 303-304°C (MeOH), $[\alpha]_D^{26} = -19.6^\circ$ ($c = 0.3$, $CHCl_3$). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0027%dw)^[4633], QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6, 109, 4633.

**7018 21-Episerratriol**

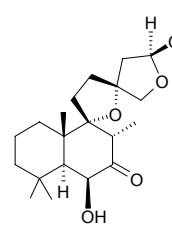
$C_{30}H_{50}O_3$ (458.73). mp 330~333°C. Source: PU DI WU GONG *Lycopodium cernuum*. Ref: 6.

**7019 Epishybunone**

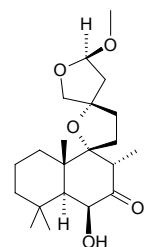
[39020-72-9] $C_{15}H_{24}O$ (220.36). Source: BAI CHANG *Acorus calamus*. Ref: 6.

**7020 15-Epi-sibiricinone D**

$C_{21}H_{34}O_5$ (366.5). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4744.

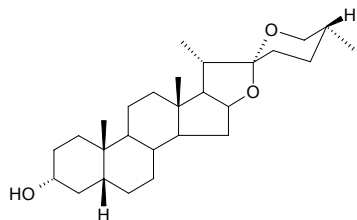
**7021 15-Epi-sibiricinone E**

$C_{21}H_{34}O_5$ (366.5). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4744.

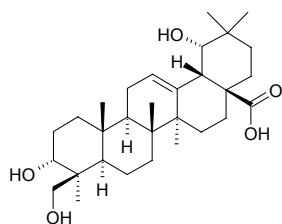


7022 Epismilagenin

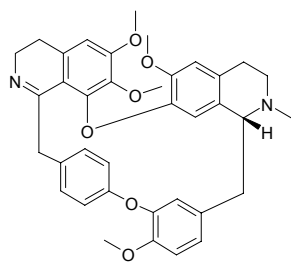
$C_{27}H_{44}O_3$ (416.65). **Source:** QIAN JIN TENG *Stephania japonica*. **Ref:** 10, 24.

**7023 3-epi-spathodic acid**

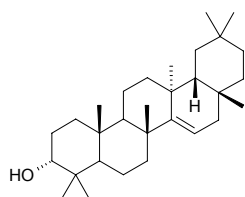
$C_{30}H_{48}O_5$ (488.71). **Pharm:** Quinone reductase inducer inactive (mouse Hepa lclc7 hepatoma cells, $CD > 10\mu\text{g/mL}$). **Source:** *Coussarea brevicaulis*. **Ref:** 3434.

**7024 Epistephanine**

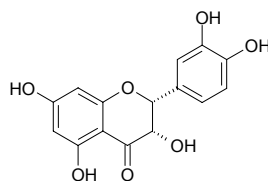
[549-08-6] $C_{37}H_{38}N_2O_6$ (606.73). mp 202°C. **Pharm:** Adrenergic antagonist (blocks adrenergic nerve markedly). **Source:** BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], CHA RUI SHU YU *Dioscorea collettii*, CHUAN LONG SHU YU *Dioscorea nipponica*, DUN YE SHU YU *Dioscorea zingiberensis*, FU ZHOU SHU YU *Dioscorea futschauensis*, MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], QIAN JIN TENG *Stephania japonica*, RU LAN *Stephania hernandifolia*, SHU KUI YE SHU YU *Dioscorea althaeoides*. **Ref:** 6, 658, 660.

**7025 Epitaraxerol**

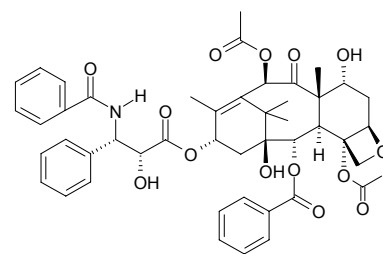
$C_{30}H_{50}O$ (426.73). **Pharm:** Cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 18.8\text{mg/mL}$)^[5379]. **Source:** SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (berry), MU SHU DI SHANG BU FEN *Manihot esculenta*. **Ref:** 4714, 5379.

**7026 Epitaxifolin**

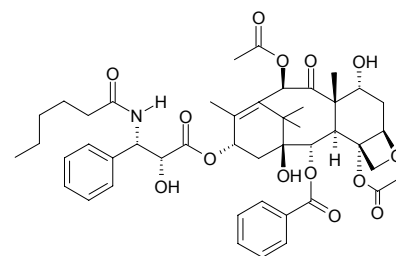
$C_{15}H_{12}O_7$ (304.26). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell culture). **Ref:** 5038.

**7027 7-Epitaxol**

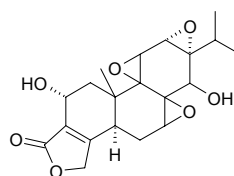
[In DNP] $C_{47}H_{51}NO_{14}$ (853.93). mp 168~171°C, $[\alpha]_D = -32.3^\circ$ (MeOH). **Pharm:** Cytotoxic (KB, $ED_{50} = 3.0 \times 10^{-5}\mu\text{g/mL}$). **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*. **Ref:** 662, 1831.

**7028 7-Epitaxuyunnanine A**

$C_{46}H_{57}NO_{14}$ (847.97). $[\alpha]_D = -47.3^\circ$ (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

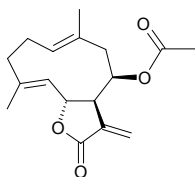
**7029 2-Epitripdiolide**

$C_{20}H_{24}O_7$ (376.41). Yellowish needles, mp 224~226°C. **Source:** LEI GONG TENG *Tripterygium wilfordii* (root cortex). **Ref:** 4871.

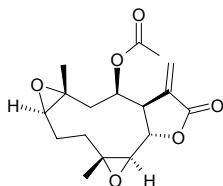


7030 Eptulipinolide

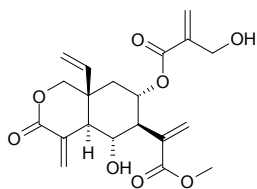
[24164-13-4] C₁₇H₂₂O₄ (290.36). mp 91~92°C, [α]_D²⁵ = +76° (*c* = 3.2, chloroform). **Pharm:** Cytotoxic (KB, ED₅₀ = 2.1 μg/mL); antineoplastic. **Source:** BAI CI GUO TUN CAO *Ambrosia dumosa*, BEI MEI E ZHANG QIU *Liriodendron tulipifera*, CHA MI SEN TUN CAO *Ambrosia chamissonis*. **Ref:** 658, 661.

**7031 Eptulipinolide diepoxide**

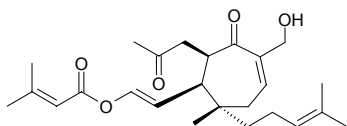
[39815-40-2] C₁₇H₂₂O₆ (322.36). mp 214~215°C (ethanol-ether), [α]_D²⁵ = -55.7° (*c* = 0.525, chloroform). **Pharm:** Cytotoxic (KB, ED₅₀ = 0.34 μg/mL); antineoplastic; insect antifeedant. **Source:** BEI MEI E ZHANG QIU *Liriodendron tulipifera*. **Ref:** 658, 661.

**7032 Epivernodalol**

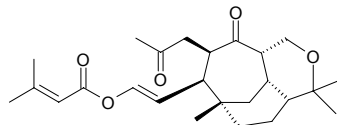
C₂₀H₂₄O₈ (392.41). mp 132°C, [α]_D²⁵ = +92.5° (*c* = 0.5, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, hmn colon carcinoma cell lines HCT15, IC₅₀ = (39.3±1.8) μmol/L, control 5-FU, IC₅₀ = 66 μmol/L; colon carcinoma HT29, IC₅₀ = (21.9±0.8) μmol/L, 5-FU, IC₅₀ = 49 μmol/L; breast carcinoma T47D, IC₅₀ = (22.5±0.7) μmol/L, control Adriamycin, IC₅₀ = 0.075 μmol/L; cervix carcinoma SiHa, IC₅₀ = (43.4±1.8) μmol/L, 5-FU, IC₅₀ = 0.034 μmol/L). **Source:** *Vernonia lasiopus*. **Ref:** 5359.

**7033 5-Epi-vibsanin C**

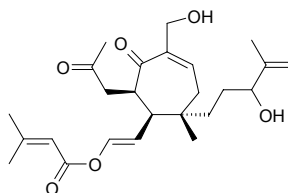
C₂₅H₃₆O₅ (416.56). [α]_D²⁴ = +38.6° (*c* = 0.59, CHCl₃). **Pharm:** Cytotoxic (KB cells, IC₅₀ = 10.7 μmol/L). **Source:** RI BEN JIA MI *Viburnum awabuki* (leaf). **Ref:** 4168.

**7034 5-Epi-vibsanin E**

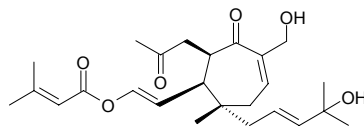
C₂₅H₃₆O₅ (416.56). [α]_D²¹ = -34.7° (*c* = 0.21, CHCl₃). **Source:** RI BEN JIA MI *Viburnum awabuki* (leaf). **Ref:** 4168.

**7035 5-Epivibsanin G**

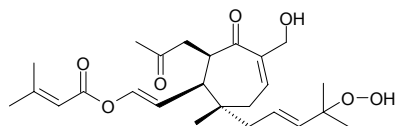
C₂₅H₃₆O₆ (432.56). Colorless amorphous solid, [α]_D²⁶ = +5° (*c* = 3.4, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, NUGC-3, weak activity). **Source:** XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00016%dw). **Ref:** 3004.

**7036 5-Epi-vibsanin H**

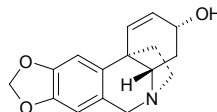
C₂₅H₃₆O₆ (432.56). [α]_D²¹ = +49.2° (*c* = 0.41, CHCl₃). **Pharm:** Cytotoxic (KB cells, IC₅₀ = 45.5 μmol/L)^[4168]. **Source:** RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00036%dw)^[3004]. **Ref:** 3004, 4168.

**7037 5-Epi-vibsanin K**

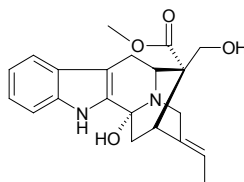
C₂₅H₃₆O₇ (448.56). [α]_D²¹ = +52.4° (*c* = 0.20, CHCl₃). **Source:** RI BEN JIA MI *Viburnum awabuki* (leaf). **Ref:** 4168.

**7038 Epivittatine**

C₁₆H₁₇NO₃ (271.32). **Pharm:** AChE inhibitor (IC₅₀ = (239±9) μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2) μmol/L). **Source:** *Crinum moorei*. **Ref:** 4952.

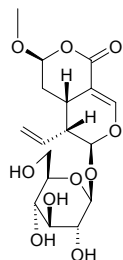
**7039 16-Epi-voacarpine**

[114027-38-2] C₂₁H₂₄N₂O₄ (368.44). mp 162~165°C (dec), [α]_D = +42.3°. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 13.

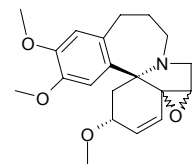


7040 Epivogeloside

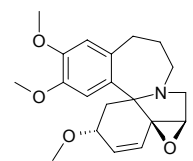
$C_{17}H_{24}O_{10}$ (388.37). **Source:** JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0016%dw)^[4723], LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb). **Ref:** 4527, 4723.

**7041 Epiwilsonine**

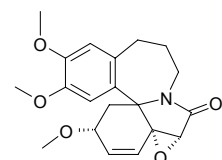
$C_{20}H_{25}NO_4$ (343.43). **Pharm:** Cytotoxic (KB oral epidermoid carcinoma, ED₅₀ = 1.94 μg/mL)^[4253]. **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*, TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig), ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 2, 660, 4253.

**7042 C-3-Epiwilsonine**

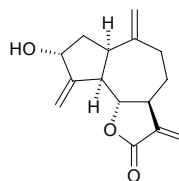
$C_{20}H_{25}NO_4$ (343.43). **Source:** TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00048%dw). **Ref:** 4759.

**7043 C-3-Epiwilsonione**

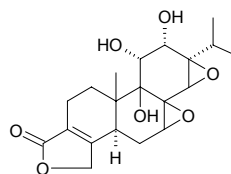
1,2-Didehydro-6,7-epoxy-3 α ,16,17-trimethoxyerythrinan-8-one $C_{20}H_{23}NO_5$ (357.41). Colorless powder, $[\alpha]_D^{28} = +11^\circ$ ($c = 0.104$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 52 μg/mL; MCF7, IC₅₀ = 42 μg/mL; Hep3B, IC₅₀ = 52 μg/mL; HT29, IC₅₀ = 24.4 μg/mL). **Source:** TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00067%dw). **Ref:** 4759.

**7044 3-Epizaluzanin C**

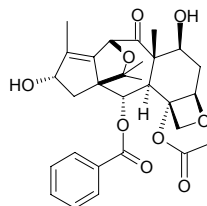
Isozaluzanin C $C_{15}H_{18}O_3$ (246.31). **Pharm:** Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 15 μg/mL; HeLa, CD₅₀ = 13.5 μg/mL; OVCAR-3, CD₅₀ = 7.5 μg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μg/mL; HeLa, CD₅₀ = 5.2 μg/mL; OVCAR-3, CD₅₀ = 3 μg/mL; without significant antibacterial effect)^[4720]. **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0003%dw)^[4720]. **Ref:** 2, 4720.

**7045 13,14-Epoxy 9,11,12-trihydroxytriptolide**

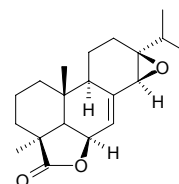
$C_{20}H_{26}O_7$ (378.43). Colorless filiform crystals, mp 268–270°C. **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 256.

**7046 10,15-Epoxy-11(15→1)-abeo-10-deacetylbaaccatin III**

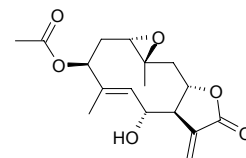
$C_{29}H_{34}O_9$ (526.59). $[\alpha]_D = -18^\circ$ (CH_2Cl_2). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. **Ref:** 662.

**7047 13 β ,14 β -Epoxyabiet-7-en-19,6 β -olide**

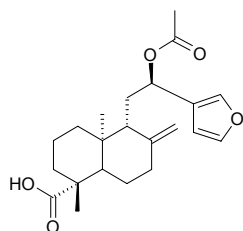
$C_{20}H_{28}O_3$ (316.44). Oil, $[\alpha]_D^{25} = -8.8^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** LONG BAI *Juniperus chinensis* var. *kaizuka* (leaf: yield = 0.000017%dw). **Ref:** 3050.

**7048 (E)-1 α ,10 β -Epoxy-3 β -acetoxy-6 α -hydroxygermacra-4,11(13)-dien-12,8 α -olide**

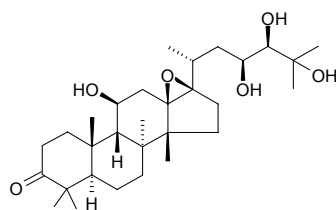
$C_{17}H_{22}O_6$ (322.36). Amorphous solid, $[\alpha]_D^{25} = +54^\circ$ ($c = 0.35$, $CHCl_3$). **Source:** *Anthemis carpatica* (aerial parts). **Ref:** 3974.



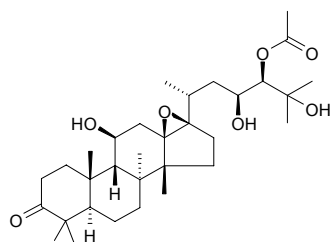
7049 15,16-Epoxy-12(R)-acetoxy-8(17),13(16),14-ent-labdatrien-19-oic acid
 $C_{22}H_{30}O_5$ (374.48). Yellow oil, $[\alpha]_D^{25} = -10.8^\circ$ ($c = 0.93$, $CHCl_3$). **Pharm:**
 Anticidal (inhibits growth of alga *Raphidocelis subcapitata*, 72h $IC_{50} =$
 107.8 $\mu\text{mol/L}$). **Source:** BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole
 herb). **Ref:** 3488.



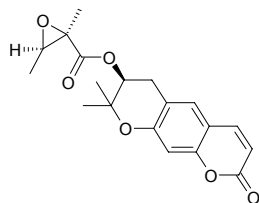
7050 13 β ,17 β -Epoxyalisol A
 $C_{30}H_{50}O_6$ (506.73). Colorless powder. **Source:** ZE XIE *Alisma orientale* [Syn.
Alisma plantago-aquatica var. *orientale*]. **Ref:** 2213.



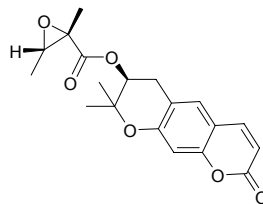
7051 13 β ,17 β -Epoxyalisol A 24-acetate
 $C_{32}H_{52}O_7$ (548.77). Colorless needles, mp 262~263°C. **Source:** ZE XIE
Alisma orientale [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2213.



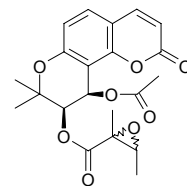
7052 (2''R,3''R)-Epoxyangeloyldecurisinal
 $C_{19}H_{20}O_6$ (344.37). Colorless needles (MeOH), mp 141~143°C, $[\alpha]_D = +24^\circ$ ($c = 0.5$,
 $CHCl_3$). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, control, cell
 viability = 100%, injured by glutamate, cell viability = 0%, 0.1 $\mu\text{mol/L}$, cell viability
 = (47.5 \pm 4.0)%, $p < 0.01$, 1 $\mu\text{mol/L}$, cell viability = (61.1 \pm 5.0)%, $p < 0.01$, 10 $\mu\text{mol/L}$,
 cell viability = (56.7 \pm 2.8)%, $p < 0.01$). **Source:** CHAO XIAN DANG GUI *Angelica*
gigas (root: yield = 0.0003%dw). **Ref:** 4796.



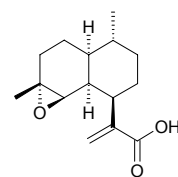
7053 (2''S,3''S)-Epoxyangeloyldecurisinal
 $C_{19}H_{20}O_6$ (344.37). Colorless needles (MeOH), mp 140~142°C, $[\alpha]_D = +91^\circ$
 ($c = 0.5$, $CHCl_3$). **Pharm:** Neuroprotective (primary cultures of rat cortical
 cells, control, cell viability = 100%, injured by glutamate, cell viability =
 0%, 0.1 $\mu\text{mol/L}$, cell viability = (70.0 \pm 6.0)%, $p < 0.001$, 1 $\mu\text{mol/L}$, cell
 viability = (52.5 \pm 4.4)%, $p < 0.01$, 10 $\mu\text{mol/L}$, cell viability = (49.0 \pm 3.0)%,
 $p < 0.01$). **Source:** CHAO XIAN DANG GUI *Angelica gigas* (root: yield =
 0.00015%dw). **Ref:** 4796.



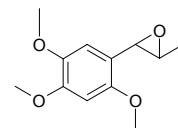
7054 (3'R,4'R)-3'-Epoxyangeloyloxy-4'-acetoxy-3',4'-dihydroseselin
 $C_{21}H_{22}O_8$ (402.40). **Pharm:** Antiallergic. **Source:** SHI SHI DANG GUI
Angelica shkiokiana. **Ref:** 658.



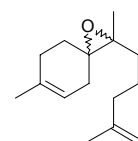
7055 Epoxyarteannuinic acid
 $C_{15}H_{22}O_3$ (250.34). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2.



7056 cis-1',2'-Epoxyasarone
 1,2,4-Trimethoxy-5-(*E*-3'-methyloxiranyl) benzene $C_{12}H_{16}O_4$ (224.26).
 Colorless oil. **Source:** SHI CHANG PU *Acorus tatarinowii*. **Ref:** 8, 660.

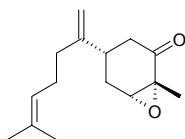


7057 6,7-Epoxybisabola-2,11-diene
 (2,6-Dimethyl-2-(4-methylpent-4-enyl)-1-oxaspiro[2.5]oct-5-ene) $C_{15}H_{24}O$
 (220.36). Colorless oil. **Source:** NING BIAN E TAI *Radula perrottetii*
 (essential oil). **Ref:** 5272.

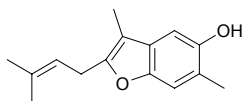


7058 (3R,4R,6S)-3,4-Epoxybisabola-7(14),10-dien-2-one

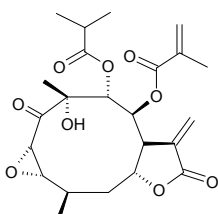
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{22} = -23.2^\circ$ ($c = 0.2$, $CHCl_3$). Source: KUAN DONG HUA *Tussilago farfara* (flower bud). Ref: 3531.

**7059 1,8-Epoxy-1(6),2,4,7,10-bisabolapentaen-4-ol**

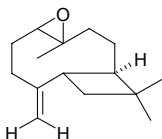
$C_{15}H_{18}O_2$ (230.31). Colorless oil. Source: RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). Ref: 4279.

**7060 2,3-Epoxycalealactone A**

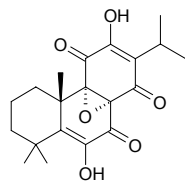
$C_{23}H_{30}O_9$ (450.49). Colorless needles, mp 99~101°C, $[\alpha]_D^{20} = +168.7^\circ$ ($c = 0.001$, $CHCl_3$). Pharm: Cytotoxic (U937, $IC_{50} > 5 \mu\text{mol/L}$; control Parthenolide, $IC_{50} = 1.9 \mu\text{mol/L}$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

**7061 4,5-Epoxy-β-caryophyllene**

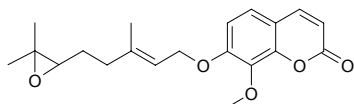
$C_{15}H_{24}O$ (220.36). Source: *Stauranthus perforatus* (root). Ref: 5253.

**7062 8α,9α-Epoxycoleon U-quinone**

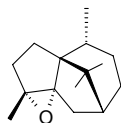
$C_{20}H_{24}O_6$ (360.41). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 13.9 \mu\text{g/mL}$; control Mitoxantrone, $IC_{50} = 2 \mu\text{g/mL}$). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts; yield = 0.00047%dw). Ref: 4625.

**7063 Epoxycollinin**

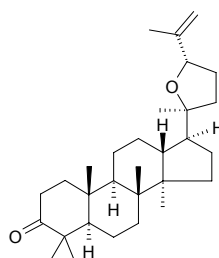
$C_{20}H_{24}O_5$ (344.41). Pharm: Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. Source: *Zanthoxylum* sp. Ref: 2176.

**7064 Epoxycyperene**

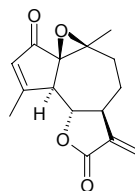
$C_{15}H_{24}O$ (220.36). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**7065 20R,24R-Epoxy-25-dammaren-3-one**

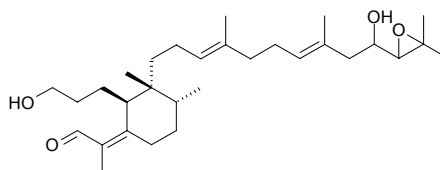
$C_{30}H_{48}O_2$ (440.72). Colorless acicular crystals (MeOH), mp 225°C, $[\alpha]_D^{21.5} = +57^\circ$ ($c = 1.0$, $CHCl_3$). Source: XIANG GANG JIAN MU *Dysoxylum hongkongense*. Ref: 422.

**7066 1β,10β-Epoxydehydroleucodin**

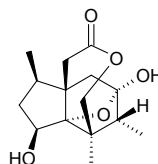
$C_{15}H_{16}O_4$ (260.29). Source: YI KUA *Artemisia myriantha* (aerial parts). Ref: 4618.

**7067 22,23-Epoxy-10-deoxy-21-hydroxyiridal**

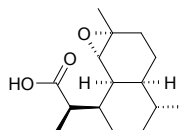
$C_{30}H_{50}O_4$ (474.73). Source: SHI GUAN YUAN WEI *Iris cristata*. Ref: 2417.

**7068 (3S*,6R*)-4,7-Epoxy-6-deoxypseudoanisatin**

$C_{15}H_{22}O_5$ (282.34). $[\alpha]_D^{23} = +42.6^\circ$ ($c = 0.96$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: 0.00011%dw). Ref: 4697.

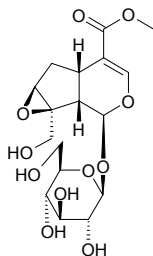
**7069 α-Epoxy-dihydroartemisinic acid**

$C_{15}H_{24}O_5$ (252.36). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

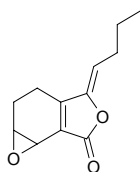


7070 7 β ,8 β -Epoxy-8 α -dihydrogeniposide

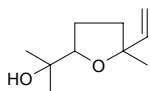
C₁₇H₂₄O₁₁ (404.37). Amorphous powder, $[\alpha]_D^{25} = -43.4^\circ$ ($c = 0.554$, MeOH). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (leaf). Ref: 4408.

**7071 (Z)-6,7-Epoxy-6,7-dihydroligustilide**

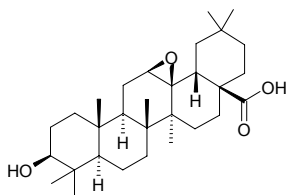
C₁₂H₁₄O₃ (206.24). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**7072 Epoxydihydrolinalool**

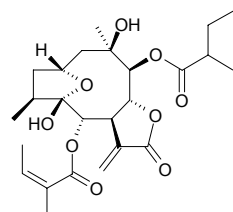
[60047-17-8] C₁₀H₁₈O₂ (170.25). Source: XING ZI *Prunus armeniaca*. Ref: 6.

**7073 Epoxydihydro-oleanolic acid**

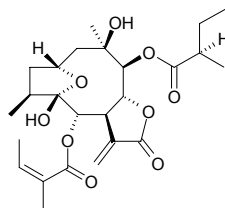
C₃₀H₄₈O₄ (472.71). Source: NAN HE SHI *Daucus carota*. Ref: 6.

**7074 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(2-methylbutyryloxy)-germacran-8,12-olide**

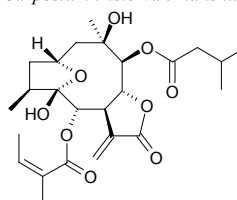
[247050-76-6] C₂₅H₃₆O₉ (480.56). White crystals, mp 190–193°C, $[\alpha]_D^{25} = -4.3^\circ$ ($c = 1.0$, MeOH). Source: DONG BEI AN HUA JIN WA ER *Carpesium triste* var. *manshuricum*. Ref: 2349.

**7075 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(2R-methylbutyryloxy)-germacran-8,12-olide**

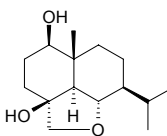
Inepatolide [75102-66-8] C₂₅H₃₆O₉ (480.56). Source: ZE LAN YANG ER JU *Inula eupatorioides*. Ref: 1521.

**7076 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(3-methylbutyryloxy)-germacran-8,12-olide**

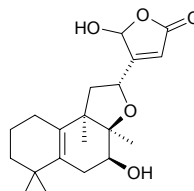
[247017-80-7] C₂₅H₃₆O₉ (480.56). White crystals, mp 160–164°C, $[\alpha]_D^{25} = +1.13^\circ$ ($c = 1.0$, MeOH). Source: DONG BEI AN HUA JIN WA ER *Carpesium triste* var. *manshuricum*. Ref: 2349.

**7077 6,15 α -Epoxy-1 β ,4 β -dihydroxyeudesmane**

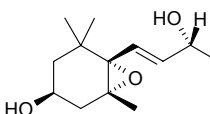
C₁₅H₂₆O₃ (254.37). Source: ZHOU YE MU LAN *Magnolia praecocissima* (seed). Ref: 4181.

**7078 ent-8S,12S-Epoxy-7R,16-dihydroxyhalima-5(10),13-dien-15,16-olide**

C₂₀H₂₈O₅ (348.44). White amorphous powder, $[\alpha]_D = -110^\circ$ (CHCl₃, $c = 0.05$). Pharm: Cytotoxic (Lu1, ED₅₀ = 15.4 μg/mL, control Ellipticine, ED₅₀ = 0.02 μg/mL; Col2, ED₅₀ = 14.8 μg/mL, Ellipticine, ED₅₀ = 0.3 μg/mL; KB, ED₅₀ = 16.9 μg/mL, Ellipticine, ED₅₀ = 0.04 μg/mL; LNCaP, ED₅₀ = 13.7 μg/mL, Ellipticine, ED₅₀ = 0.8 μg/mL). Source: *Alomia myriadenia* (aerial parts). Ref: 3479.

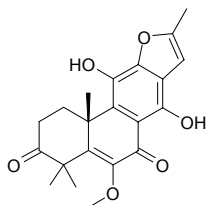
**7079 (3S,5R,6S,7E,9R)-5,6-Epoxy-3,9-dihydroxy-7-megastigmane**

C₁₃H₂₂O₃ (226.32). Colorless oil, $[\alpha]_D^{25} = -53.9^\circ$ ($c = 0.47$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.



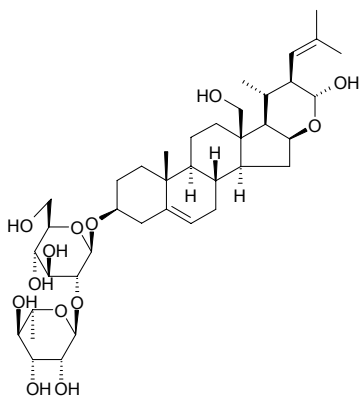
7080 12,16-Epoxy-11,14-dihydroxy-6-methoxy-17(15-16)-abeo-abieta-5,8,11,13,15-pentaene-3,7-dione

$C_{21}H_{22}O_6$ (370.41). mp 248.0°C, $[\alpha]_D^{20} = +50.0^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** Antiproliferative (*in vitro*, MTT assay, CEM, $IC_{50} = 24.2\mu\text{mol/L}$, control Doxorubicin, $IC_{50} = 0.036\mu\text{mol/L}$, HeLa, $IC_{50} = 12.7\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.027\mu\text{mol/L}$, HCT8, $IC_{50} > 72.2\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.024\mu\text{mol/L}$, MCF7, $IC_{50} > 72.2\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.183\mu\text{mol/L}$, B-16, $IC_{50} > 72.2\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.056\mu\text{mol/L}$). **Source:** *Aegiphila thotzkiana* (root). **Ref:** 4940.



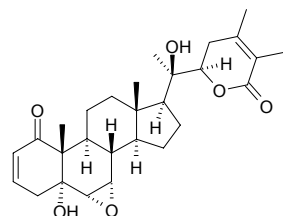
7081 (22S,23R)-16β,23-Epoxy-18,23-dihydroxy-22-(2-methyl-1-propenyl)-24-norchol-5-en-3β-yl O-α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranoside

$C_{39}H_{62}O_{13}$ (738.92). Amorphous solid, $[\alpha]_D^{25} = -18.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60 cells, $IC_{50} > 10\mu\text{mol/L}$, control Etoposide, $IC_{50} = 0.025\mu\text{mol/L}$). **Source:** XIA FENG XIN ZI *Galtonia candicans* (bulb). **Ref:** 4116.



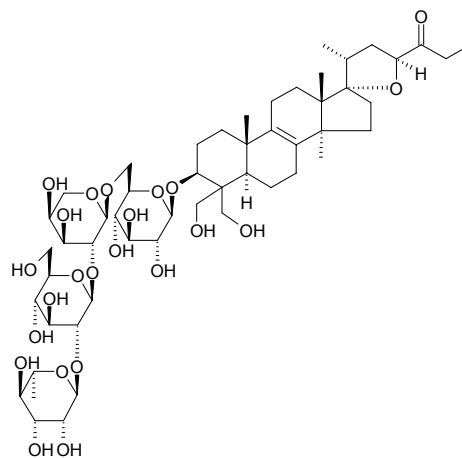
7082 6α,7α-Epoxy-5α,20β-dihydroxy-1-oxowitha-2,24-dienolide

$C_{28}H_{38}O_6$ (470.61). **Pharm:** BChE inhibitor ($IC_{50} = (50\pm 2)\mu\text{mol/L}$, control Galanthamine $IC_{50} = (0.50\pm 0.001)\mu\text{mol/L}$, Eserine $IC_{50} = (0.04\pm 0.0001)\mu\text{mol/L}$); AChE inhibitor inactive^[2563]. **Source:** CUI MIAN SHUI QIE *Withania somnifera*. **Ref:** 2563.



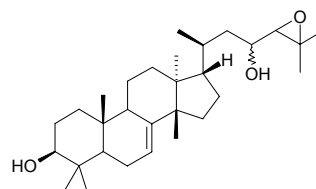
7083 (23S)-17α,23-Epoxy-28,29-dihydroxy-3β-[(O-α-L-rhamnopyranosyl-(1→2)-O-β-D-glucopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one

$C_{52}H_{84}O_{23}$ (1077.24). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, $IC_{50} = 19\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



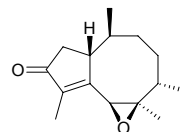
7084 24,25-Epoxy-3β,23-dihydroxy-7-tirucallene

$C_{30}H_{50}O_3$ (458.73). Prisms (Me_2CO), mp 155–157°C. **Source:** HAI NAN JIAN MU *Dysoxylum hainanense* (bark). **Ref:** 3987.



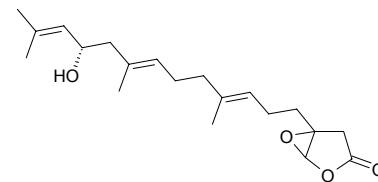
7085 6,7-Epoxy-4-dumorten-3-one

$C_{15}H_{22}O_2$ (234.34). Oil. **Source:** MAO DI QIAN *Dumortiera hirsuta*. **Ref:** 2283.



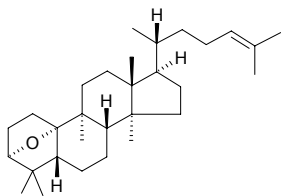
7086 Epoxyeleganolactone

1,2-Epoxy-13-hydroxy-6,10,14-phyttatrien-20,1-olide [$165133-76-6$] $C_{20}H_{30}O_4$ (334.46). Oil, $[\alpha]_D^{25} = -0.9^\circ$ ($c = 2.8$, CH_2Cl_2). **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 2405.

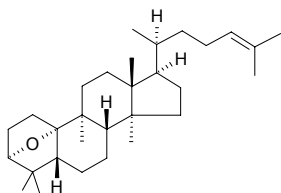


7087 (20R)-3 α ,10 α -Epoxy-9-epi-cucurbita-24-ene

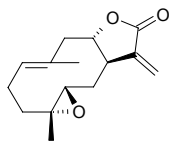
[259657-91-5] C₃₀H₅₀O (426.73). Oil. Source: *Senecio selloi*. Ref: 2416.

**7088 (20S)-3 α ,10 α -Epoxy-9-epi-cucurbita-24-ene**

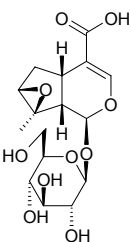
[259657-93-7] C₃₀H₅₀O (426.73). Oil. Source: *Senecio selloi*. Ref: 2416.

**7089 4 α ,5 β -Epoxy-8-epiinnunolide**

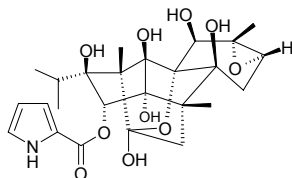
C₁₅H₂₀O₃ (248.32). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

**7090 7,8-Epoxy-8-epi-loganic acid**

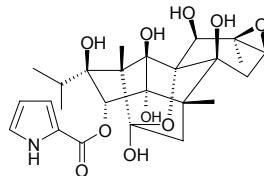
C₁₆H₂₂O₁₀ (374.35). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**7091 8 α ,9 α -Epoxy-10-epi-ryanodine**

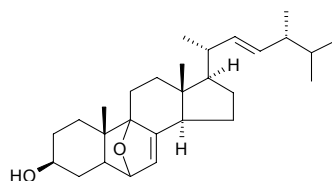
C₂₅H₃₃NO₁₀ (507.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 196°C, [α]_D = +13° (c = 0.4). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 770nmol/L). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**7092 8 β ,9 β -Epoxy-10-epi-ryanodine**

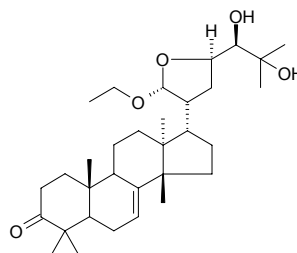
C₂₅H₃₃NO₁₀ (507.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 212°C, [α]_D = +7° (c = 0.2). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 540nmol/L). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**7093 6,9-Epoxy-ergosta-7,22-dien-3-ol**

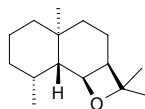
C₂₈H₄₄O₂ (412.66). White acicular crystals, mp 229–230°C. Source: SHI HU XIAO GU *Mycena dendrobii*. Ref: 851.

**7094 21R,23R-Epoxy,21 α -ethoxy,24S,25-dihydroxyapotirucalla-7-en-3-one**

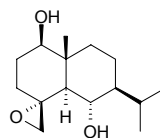
C₃₂H₅₂O₅ (516.77). White crystals. Source: MA LA BA JIAN MU *Dysoxylum malabaricum* (leaf). Ref: 5130.

**7095 (+)-6,11-Epoxy-eudesmane**

C₁₅H₂₆O (222.37). Colorless oil. Source: *Tritomaria polita* (essential oil). Ref: 3446.

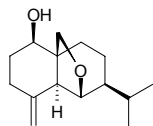
**7096 4 α ,15-Epoxyeudesmane-1 β ,6 α -diol**

C₁₅H₂₆O₃ (254.37). Source: YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

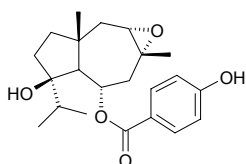


7097 6 β ,14-Epoxyeudesm-4(15)-en-1 β -ol

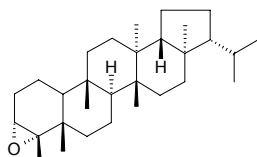
C₁₅H₂₄O₂ (236.36). Colorless amorphous solid, [α]_D²⁶ = +14.6° (*c* = 0.1, CHCl₃). Source: FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts). Ref: 4338.

**7098 8,9-Epoxy-ferutinin**

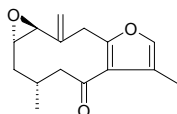
C₂₂H₃₀O₅ (374.48). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

**7099 3 α ,4 α -Epoxyfilicane**

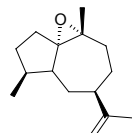
[23983-65-5] C₃₀H₅₀O (426.73). mp 229~231°C. Source: ZHU ZONG CAO *Adiantum capillus-veneris*. Ref: 6.

**7100 rel-1S,2S-Epoxy-4R-furanogermacr-10(15)-en-6-one**

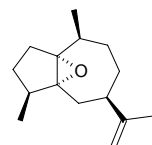
C₁₅H₁₈O₃ (246.31). Colorless oil, [α]_D = -160.0° (*c* = 2.5, CHCl₃). Pharm: Cytotoxic (*in vitro*, MCF7, IC₅₀ = 40 μmol/L, weak activity). Source: MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*]. Ref: 3093.

**7101 (-)-1,10-Epoxy-guaia-11-ene**

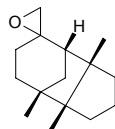
C₁₅H₂₄O (220.36). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**7102 Epoxyguaie**

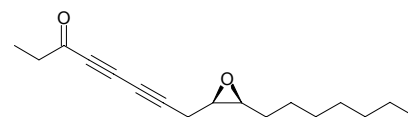
C₁₅H₂₄O (220.36). bp 102~104°C/1mmHg. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**7103 3(15)-Epoxygymnomitrane**

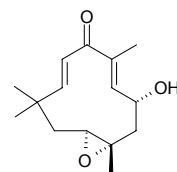
C₁₅H₂₄O (220.36). Oil, [α]_D²¹ = -4.8° (*c* = 0.83). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**7104 (9R,10S)-Epoxyheptadecan-4,6-diyn-3-one**

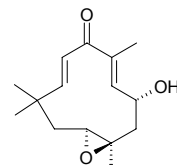
C₁₇H₂₄O₂ (260.38). Light yellow oil, [α]_D²⁵ = -70.0° (*c* = 1.0, CHCl₃). Pharm: DGAT inhibitor (IC₅₀ = 9 μg/mL, control Evocarpine, IC₅₀ = 8.1 μg/mL). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 4943.

**7105 (2R,3R,5R)-2,3-Epoxy-6,9-humuladien-5-ol-8-one**

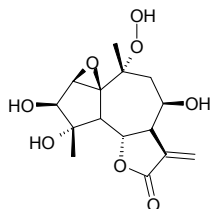
C₁₅H₂₂O₃ (250.34). Pharm: CYP3A4 inhibitor (IC₅₀ = 42.6 μmol/L, control Ketoconazole, IC₅₀ = 0.245 μmol/L); CYP2D6 inhibitor inactive (IC₅₀ > 100 μmol/L, control Quinidine, IC₅₀ = 0.078 μmol/L). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: 0.00060%dw). Ref: 4669.

**7106 (2R,3S,5R)-2,3-Epoxy-6,9-humuladien-5-ol-8-one**

C₁₅H₂₂O₃ (250.34). Pharm: CYP3A4 inhibitor (IC₅₀ = 62.5 μmol/L, control Ketoconazole, IC₅₀ = 0.245 μmol/L); CYP2D6 inhibitor inactive (IC₅₀ > 100 μmol/L, control Quinidine, IC₅₀ = 0.078 μmol/L). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: 0.00050%dw). Ref: 4669.

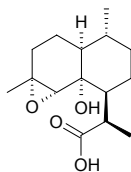
**7107 1 β ,2 β -Epoxy-10 α -hydroperoxy-3 β ,4 α ,8 β -trihydroxyguaia-11(13)-en-12,6 α -olide**

C₁₅H₂₀O₈ (328.32). Colorless gum, [α]_D²⁰ = +24° (*c* = 0.10, MeOH). Pharm: Antifungal (*Candida albicans*, MIC = 20 μg/mL). Source: GUAN MU YA JU *Ajania fruticulosa* (aerial parts). Ref: 5222.

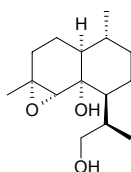


7108 4 α ,5 α -Epoxy-6 α -hydroxy amorphan-12-oic acid

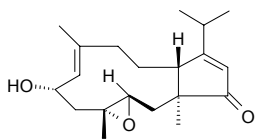
C₁₅H₂₄O₄ (268.36). Colorless oil, $[\alpha]_D = -62.5^\circ$ ($c = 1.0$, CHCl₃). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**7109 4 α ,5 α -Epoxy-6 α -hydroxy amorphan-12-ol**

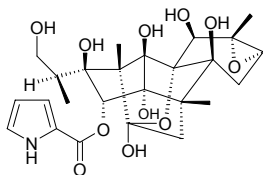
C₁₅H₂₆O₃ (254.37). Colorless oil. Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**7110 (1S*,3R*,4R*,6S*,11S*)-3,4-Epoxy-6-hydroxy-dolabella-7E,12-dien-14-one**

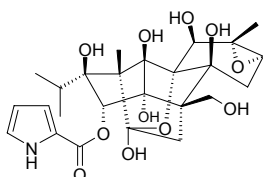
C₂₀H₃₀O₃ (318.46). Clear film, $[\alpha]_D^{20} = -77.3^\circ$ ($c = 0.21$, CHCl₃). Source: fungus *Stachybotrys chartarum*. Ref: 5104.

**7111 (13S)-8 α ,9 α -Epoxy-18-hydroxy-10-epi-ryanodine**

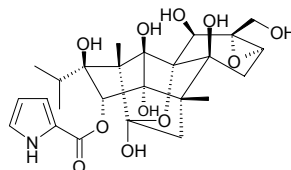
C₂₅H₃₃NO₁₁ (523.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 200°C, $[\alpha]_D = +7^\circ$ ($c = 0.2$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**7112 8 α ,9 α -Epoxy-20-hydroxy-10-epi-ryanodine**

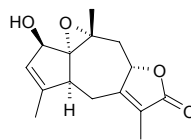
C₂₅H₃₃NO₁₁ (523.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 208°C, $[\alpha]_D = +8^\circ$ ($c = 0.1$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**7113 8 α ,9 α -Epoxy-21-hydroxy-10-epi-ryanodine**

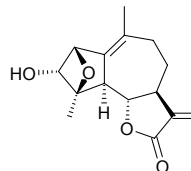
EP-1 C₂₅H₃₃NO₁₁ (523.54). Crystals (CHCl₃:Me₂CO = 3:1), mp 193°C, $[\alpha]_D = +13^\circ$ ($c = 0.2$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**7114 (1 α ,2 β ,5 α ,8 α 10 α)-1,10-Epoxy-2-hydroxy-3,7(11)-guaiaadien-12,8-olide**

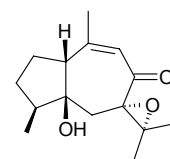
C₁₅H₁₈O₄ (262.31). Yellow oil, $[\alpha]_D^{25} = +61.0^\circ$ ($c = 0.4$, CHCl₃). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 98.2 μmol/L; CYP2D6, IC₅₀ > 100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00023%dw). Ref: 4797.

**7115 5 α H-2 β ,4 β -Epoxy-3 α -hydroxy-guaia-1(10),11(13)-dien-6 α ,12-olide**

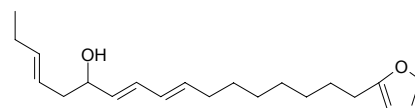
C₁₅H₁₈O₄ (262.31). Colorless gum, $[\alpha]_D^{20} = +12.9^\circ$ ($c = 0.1$, EtOH). Pharm: Cytotoxic (KB ATCC CCL17, IC₅₀ = 3.6 μg/mL). Source: *Warionia saharae*. Ref: 5399.

**7116 7 α -11 α -Epoxy-5 β -hydroxy-9-guaiaen-8-one**

C₁₅H₂₂O₃ (250.34). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (32.0 ± 2.0)%, control L-NMMA, 100 μmol/L, InRt = (79.2 ± 0.9)%, $p < 0.01$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

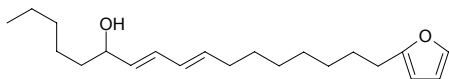
**7117 1,4-Epoxy-16-hydroxyheneicos-1,3,12,14,18-pentaene**

C₂₁H₃₂O₂ (316.49). Viscous oil. Source: YA LUO CHUN *Cipadessa baccifera*. Ref: 745.

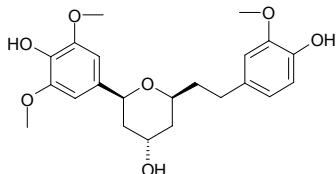


7118 1,4-Epoxy-16-hydroxyhenicos-1,3,12,14-tetraene

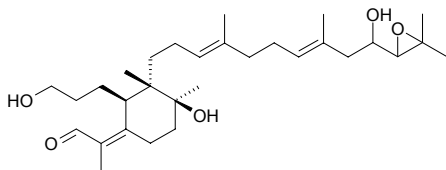
$C_{21}H_{34}O_2$ (318.50). Viscous oil. Source: YA LUO CHUN *Cipadessa baccifera*. Ref: 745.

**7119 1,5-Epoxy-3-hydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)heptane**

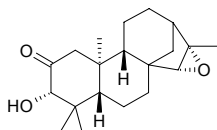
$C_{22}H_{28}O_7$ (404.46). Colorless oil, $[\alpha]_D^{16} = -24^\circ$ ($c = 0.19$, EtOH). Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.

**7120 22,23-Epoxy-21-hydroxyiridal**

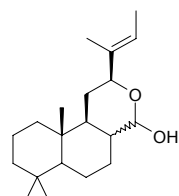
$C_{30}H_{50}O_5$ (490.73). Source: SHI GUAN YUAN WEI *Iris cristata*. Ref: 2417.

**7121 ent-15,16-Epoxy-3β-hydroxy-kauran-2-one**

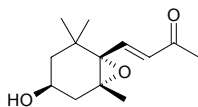
$C_{20}H_{30}O_3$ (318.46). Colorless needle crystals, mp 123°C, $[\alpha]_D^{24} = -5^\circ$ ($c = 0.13$, MeOH). Pharm: Antibacterial (inhibits colony formation of *X. campestris* pv. *oryzae*, 200mg/L, InRt = 30%). Source: DAO CAO *Oryza sativa* (leaf). Ref: 3814.

**7122 12,17-Epoxy-17-hydroxyabda-13(E)-ene**

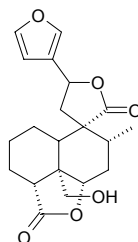
$C_{20}H_{34}O_2$ (306.49). mp 150~152°C, $[\alpha]_D^{20} = -8.526^\circ$ ($c = 1.08$, $CHCl_3$). Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10μg/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

**7123 (3S,5R,6S,7E)-5,6-Epoxy-3-hydroxy-7-megastigmen-9-one**

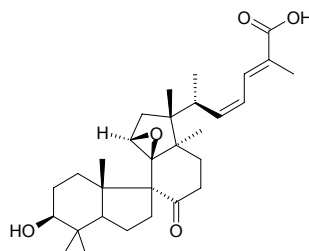
$C_{13}H_{20}O_3$ (224.30). Colorless oil, $[\alpha]_D^{25} = -43.7^\circ$ ($c = 0.39$, CH_2Cl_2). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

**7124 12(S)-15,16-Epoxy-19-hydroxy-neo-cleroda-13(16),14-dien-18,6α:20,12-dioidide**

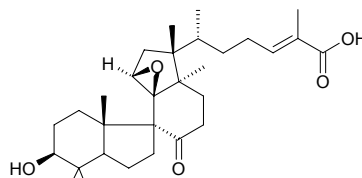
$C_{20}H_{24}O_6$ (360.41). White powder, $[\alpha]_D^{25} = +26.0^\circ$ ($c = 0.001$, MeOH). Source: SHI CAN XIANG KE KE *Teucrium chamaedrys*. Ref: 3431.

**7125 14β,15β-Epoxy-3β-hydroxy-9-oxo-11(10→8)-abeolanosta-22-cis,24-trans-dien-26-oic acid**

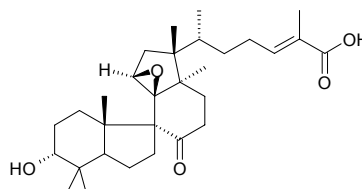
$C_{30}H_{44}O_5$ (484.68). White needles (MeOH), mp 210°C (dec). Pharm: Cytotoxic (*in vitro*, MCF7, $GI_{50} = 69.6\mu\text{mol/L}$; NCI-H460, $GI_{50} = 70.3\mu\text{mol/L}$; SF268, $GI_{50} = 95.7\mu\text{mol/L}$; control Doxorubicin, $GI_{50} = 0.043\mu\text{mol/L}$; NCI-H460, $GI_{50} = 0.094\mu\text{mol/L}$; SF268, $GI_{50} = 0.093\mu\text{mol/L}$). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 4790.

**7126 14β,15β-Epoxy-3β-hydroxy-9-oxo-11(10→8)-abeolanosta-24-trans-en-26-oic acid**

$C_{30}H_{46}O_5$ (486.7). White needles (MeOH), mp 205~207°C. Pharm: Cytotoxic (*in vitro*, MCF7, $GI_{50} = 63.8\mu\text{mol/L}$; NCI-H460, $GI_{50} = 68.6\mu\text{mol/L}$; SF268, $GI_{50} = 86.4\mu\text{mol/L}$; control Doxorubicin, $GI_{50} = 0.043\mu\text{mol/L}$; NCI-H460, $GI_{50} = 0.094\mu\text{mol/L}$; SF268, $GI_{50} = 0.093\mu\text{mol/L}$). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 4790.

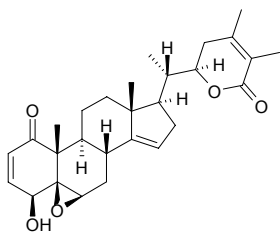
**7127 14β,15β-Epoxy-3α-hydroxy-9-oxo-11(10→8)-abeolanost-24-trans-en-26-oic acid**

$C_{30}H_{46}O_5$ (486.7). Yellowish gum. Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 4790.

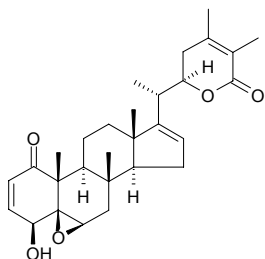


7128 5 β ,6 β -Epoxy-4 β -hydroxy-1-oxowitha-2,14,24-trienolide

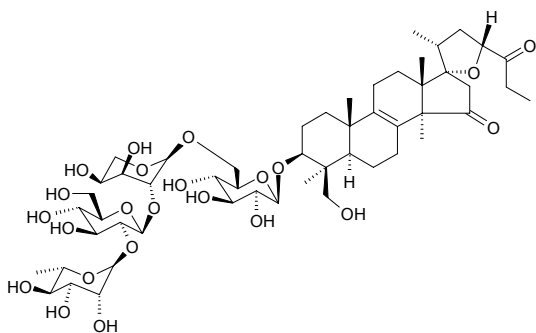
C₂₈H₃₆O₅ (452.60). **Pharm:** BChE inhibitor (IC₅₀ = (124.0±1.1)μmol/L, control Galanthamine IC₅₀ = (0.50±0.001)μmol/L, Eserine IC₅₀ = (0.04±0.0001)μmol/L); AChE inhibitor (IC₅₀ = (62.5±2.0)μmol/L, control Galanthamine IC₅₀ = (8.2±0.01)μmol/L, Eserine IC₅₀ = (0.85±0.0001)μmol/L). **Source:** CUI MIAN SHUI QIE *Withania somnifera*. **Ref:** 2563.

**7129 5 β ,6 β -Epoxy-4 β -hydroxy-1-oxo-witha-2,16,24-trienolide**

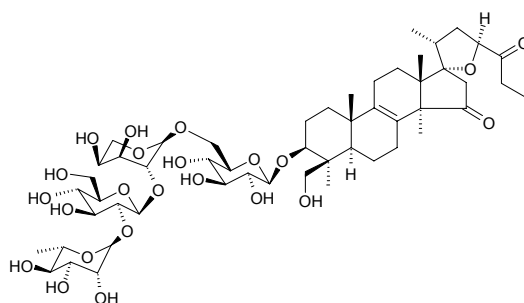
C₂₈H₃₆O₅ (452.60). mp 268°C, [α]_D³⁰ = +92.60° (c = 0.25, CHCl₃). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (leaf). **Ref:** 5329.

**7130 (23R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(O- α -L-rhamnopyranosyl-(1→2)-O- β -D-glucopyranosyl-(1→2)-O- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione**

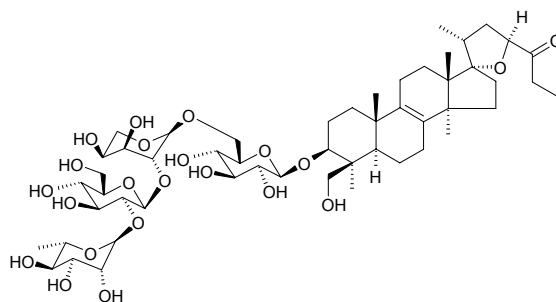
C₅₂H₈₂O₂₃ (1075.22). Amorphous solid, [α]_D²⁸ = -16.0° (c = 0.10, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, HSC-2, 100μmol/L; control Etoposide, IC₅₀ = 41μmol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.00054%fw). **Ref:** 4793.

**7131 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(O- α -L-rhamnopyranosyl-(1→2)-O- β -D-glucopyranosyl-(1→2)-O- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione**

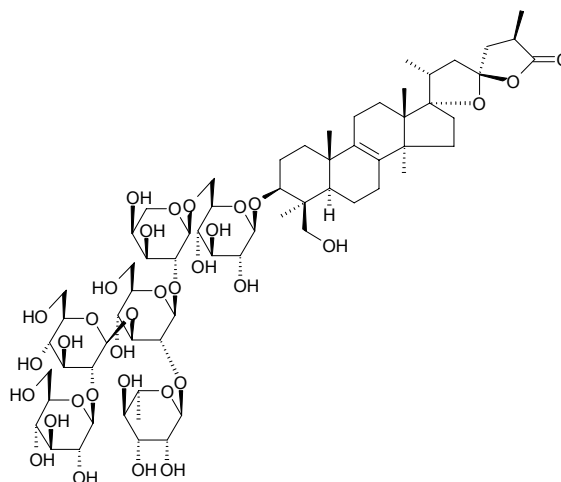
C₅₂H₈₂O₂₃ (1075.22). **Pharm:** Cytotoxic (*in vitro*, HSC-2, IC₅₀ = 63μmol/L; control Etoposide, IC₅₀ = 41μmol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.0034%fw). **Ref:** 4793.

**7132 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(O- α -L-rhamnopyranosyl-(1→2)-O- β -D-glucopyranosyl-(1→2)-O- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one**

C₅₂H₈₄O₂₂ (1061.24). **Pharm:** Cytotoxic (*in vitro*, HSC-2, IC₅₀ = 32μmol/L; control Etoposide, IC₅₀ = 41μmol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.001%fw). **Ref:** 4793.

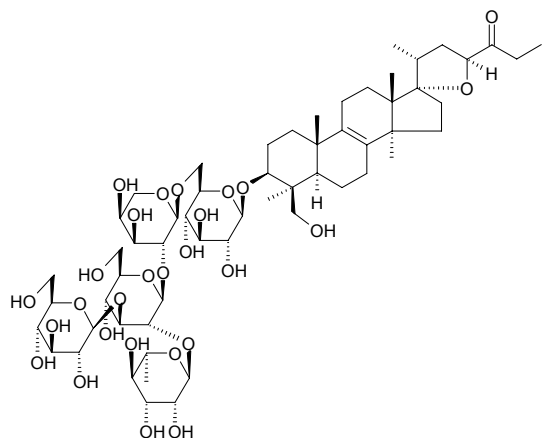
**7133 (23S,25R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(O- α -L-rhamnopyranosyl-(1→2)-O-[O- β -D-glucopyranosyl-(1→2)- β -D-glucopyranosyl-(1→3)]- β -D-glucopyranosyl-(1→2)- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]lanost-8-en-23,26-olide**

C₆₅H₁₀₄O₃₃ (1413.53). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ = 14μg/mL, control Etoposide, IC₅₀ = 24μg/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



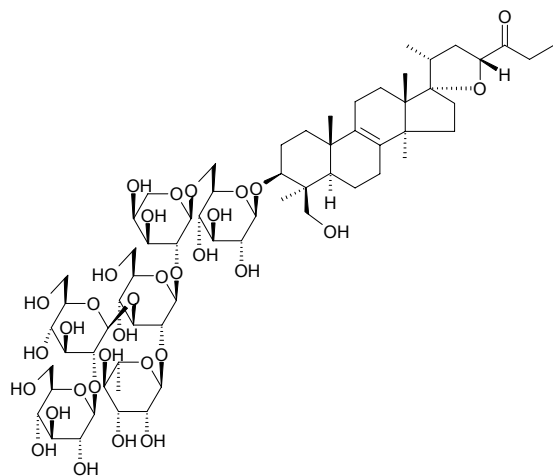
7134 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one

C₅₈H₉₄O₂₇ (1223.38). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ = 23 μ g/mL, control Etoposide, IC₅₀ = 24 μ g/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



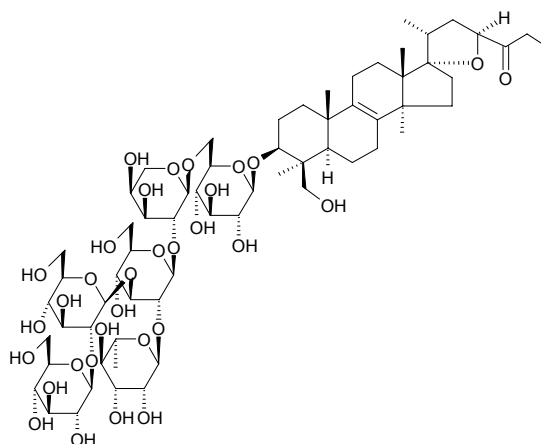
7135 (23R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one

C₆₄H₁₀₄O₃₂ (1385.52). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ > 50 μ g/mL, control Etoposide, IC₅₀ = 24 μ g/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



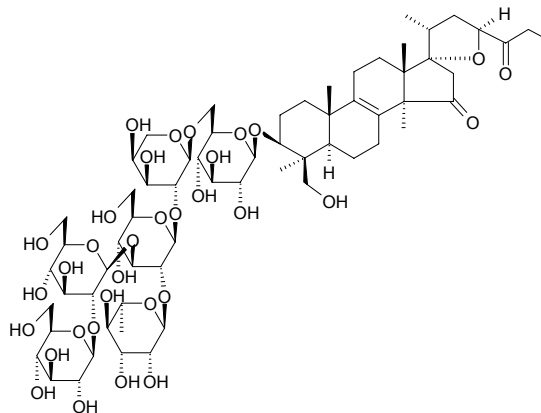
7136 (23S)-17 α -Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one

C₆₄H₁₀₄O₃₂ (1385.52). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ = 10 μ g/mL, control Etoposide, IC₅₀ = 24 μ g/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



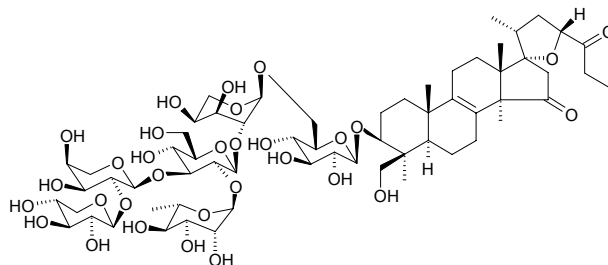
7137 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione

C₆₄H₁₀₂O₃₃ (1399.51). Amorphous solid, [α]_D²⁶ = -18.0° (*c* = 0.1, MeOH). **Pharm:** Cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ > 50 μ g/mL, control Etoposide, IC₅₀ = 24 μ g/mL). **Source:** XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4308.



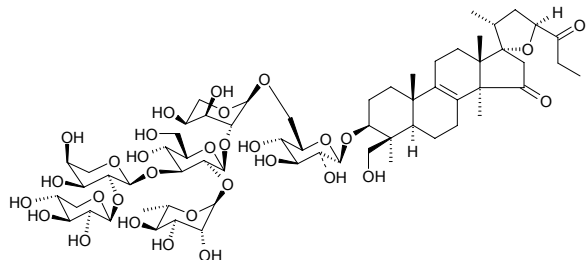
7138 (23R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione

C₆₂H₉₈O₃₁ (1339.45). Amorphous solid, [α]_D²⁸ = -12.0° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, HSC-2, 100 μ mol/L; control Etoposide, IC₅₀ = 41 μ mol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.00094%fw). **Ref:** 4793.



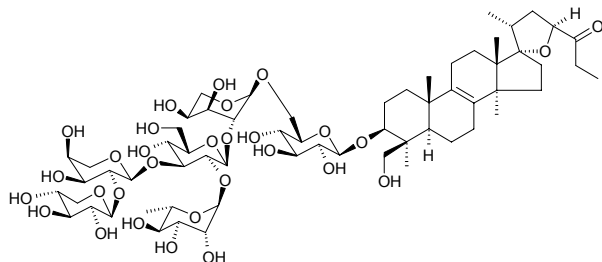
7139 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione

C₆₂H₉₈O₃₁ (1339.45). Amorphous solid, $[\alpha]_D^{28} = -22.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, IC₅₀ = 19 μ mol/L; control Etoposide, IC₅₀ = 41 μ mol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.0051%fw). **Ref:** 4793.



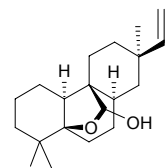
7140 (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one

C₆₂H₁₀₀O₃₀ (1325.47). Amorphous solid, $[\alpha]_D^{28} = -54.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, IC₅₀ = 7.3 μ mol/L; control Etoposide, IC₅₀ = 41 μ mol/L). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb: yield = 0.00033%fw). **Ref:** 4793.



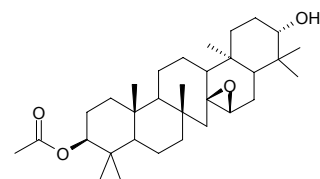
7141 5 β ,20-Epoxy-20-hydroxy-ros-15-ene

C₂₀H₃₂O₂ (304.48). $[\alpha]_D^{20} = +35^\circ$ ($c = 0.22$, CHCl₃). **Source:** *Gackstroemia decipiens*. **Ref:** 3907.



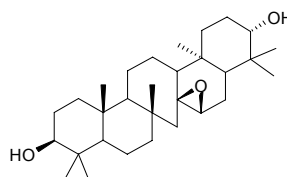
7142 14 β ,15 β -Epoxy-3 β -hydroxyserratan-21 α -ol-3 β -O-acetate

C₃₂H₅₂O₄ (500.77). Colorless needles (CHCl₃), mp 273–276°C, $[\alpha]_D^{20} = +12.9^\circ$ ($c = 1.00$, CHCl₃). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 5349.



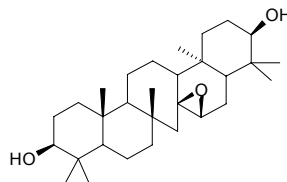
7143 14 β ,15 β -Epoxy-3 β -hydroxyserratan-21 α -ol

C₃₀H₅₀O₃ (458.73). Colorless needles (CHCl₃-CH₃OH), mp 280–283°C, $[\alpha]_D^{20} = +0.2^\circ$ ($c = 0.44$, C₅H₅N). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 5349.



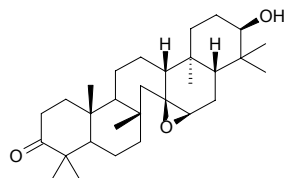
7144 14 β ,15 β -Epoxy-3 β -hydroxy-serratan-21 β -ol

C₃₀H₅₀O₃ (458.73). Colorless prisms (CHCl₃-CH₃OH), mp 272–274°C, $[\alpha]_D^{20} = -19.7^\circ$ ($c = 0.57$, CHCl₃). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 5349.



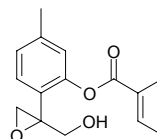
7145 14 β ,15 β -Epoxy-21 β -hydroxyserratan-3-one

C₃₀H₄₈O₃ (456.72). Needles, mp 310–312°C (MeOH-CHCl₃), $[\alpha]_D = -14.5^\circ$ ($c = 0.52$). **Source:** RI BEN YU LIN SONG *Picea jezoensis* (cuticle). **Ref:** 3076.



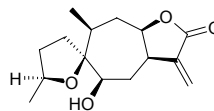
7146 8,10-Epoxy-9-hydroxy thymol 3-O-tiglate

C₁₅H₁₈O₄ (262.31). $[\alpha]_D^{23} = -32.0^\circ$ ($c = 1.1$, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.



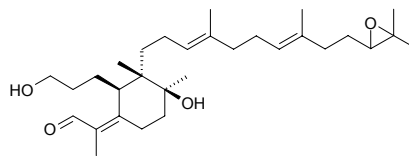
7147 1 β ,4 β -Epoxy-5 β -hydroxy-10 α H-xantha-11(13)-en-12,8 β -olide

C₁₅H₂₂O₄ (266.34). Colorless gum, $[\alpha]_D^{20} = +23.0^\circ$ ($c = 0.71$, CHCl₃). **Source:** CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0009%dw). **Ref:** 4736.



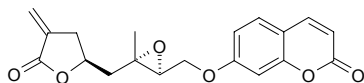
7148 22,23-Epoxyiridal

C₃₀H₅₀O₄ (474.73). **Source:** SHI GUAN YUAN WEI *Iris cristata*. **Ref:** 2417.

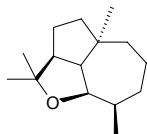


7149 2',3'-Epoxyisocapnolactone

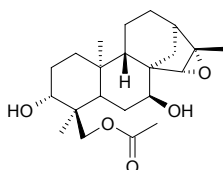
$C_{19}H_{18}O_6$ (342.35). White needles, mp 103~105°C. Source: JI XIAO XIAO YUN XIANG MU *Micromelum minutum* (leaf). Ref: 3467.

**7150 (+)-6,11-Epoxy-isodaucane**

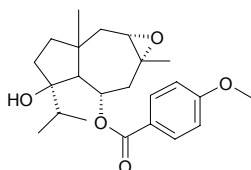
$C_{15}H_{26}O$ (222.37). Colorless oil. Source: *Tritomaria polita* (essential oil). Ref: 3446.

**7151 Epoxyisolinearol**

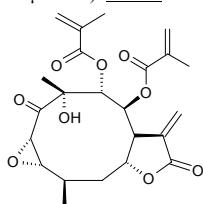
$C_{22}H_{34}O_5$ (378.51). Colorless needles ($CHCl_3$). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**7152 2,3-Epoxy-jaeschkeanadiol p-methoxybenzoate**

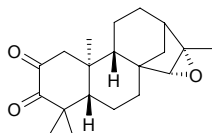
$C_{23}H_{32}O_5$ (388.51). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

**7153 2,3-Epoxyjuanislinamin**

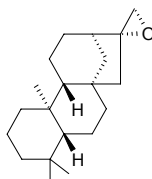
$C_{23}H_{28}O_9$ (448.47). White powder, $[\alpha]_D^{20} = +154.0^\circ$ ($c = 0.001$, $CHCl_3$). Pharm: Cytotoxic (U937, $IC_{50} = 1.8\mu mol/L$; control Parthenolide, $IC_{50} = 1.9\mu mol/L$). Source: YOU KA MEI JU *Calea urticifolia* (leaf). Ref: 3887.

**7154 ent-15,16-Epoxy-kauran-2,3-dione**

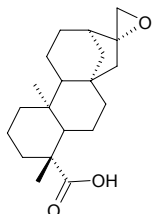
Oryzadione $C_{20}H_{28}O_3$ (316.44). Colorless needle crystals, mp 138°C, $[\alpha]_D^{24} = -13^\circ$ ($c = 0.21$, MeOH). Pharm: Antibacterial (inhibits colony formation of *X. campestris* pv. *oryzae*, 200mg/L, InRt = 40%). Source: DAO CAO *Oryza sativa* (leaf). Ref: 3814.

**7155 ent-16β,17-Epoxy-kaurane**

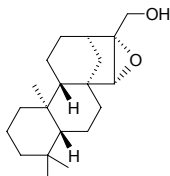
$C_{20}H_{32}O$ (288.48). mp 174.0~176.5°C, $[\alpha]_D^{17} = -45.9^\circ$ ($c = 0.18$, $CHCl_3$). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2182.

**7156 (-)-16β,17-Epoxykauran-19-oic acid**

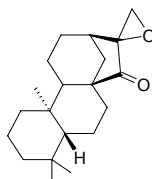
$C_{20}H_{30}O_3$ (318.46). White solid, mp 154~156°C, $[\alpha]_D^{20} = -98.4^\circ$ ($c = 1$, $CHCl_3$). Pharm: Na^+, K^+ -ATP inhibitor (crude enzyme Na^+, K^+ -ATPase from rat brain, $IC_{50} = 480\mu mol/L$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (semi-synthetic derivative). Ref: 5404.

**7157 ent-15β,16-Epoxy-kauran-17-ol**

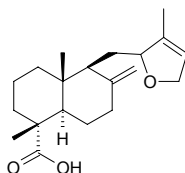
$C_{20}H_{32}O_2$ (304.48). mp 160°C, $[\alpha]_D^{20} = +9.4^\circ$ ($c = 1.5$, $CHCl_3$). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2182.

**7158 ent-16,17-Epoxykauran-15-one**

$C_{20}H_{30}O_2$ (302.46). Oil, $[\alpha]_D^{23} = -109.0^\circ$ ($c = 0.28$). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

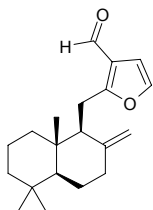
**7159 12,15-Epoxy-8(17),13-labdadien-18-oic acid**

$C_{20}H_{30}O_3$ (318.46). Amorphous, $[\alpha]_D^{27} = +37.6^\circ$ ($c = 0.19$, $CHCl_3$). Source: TAI WAN SHAN MU *Cunninghamia konishii* (wood). Ref: 4176.

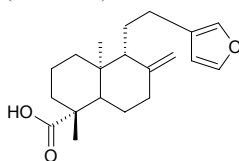


7160 12,15-Epoxyabda-8(17),12,14-trien-16-al

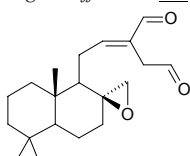
$C_{20}H_{28}O_2$ (300.44). Orange oil, $[\alpha]_D^{20} = +50.5^\circ$ ($c = 0.42$, $CHCl_3$). Source: *Turraanthus africanus* (seed). Ref: 3884.

**7161 15,16-Epoxy-8(17),13(16),14-ent-labdatrien-19-oic acid**

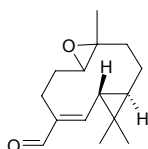
Danielllic acid $C_{20}H_{28}O_3$ (316.44). Pharm: Angicidal (inhibits growth of alga *Raphidocelis subcapitata*, 72h $IC_{50} = 17.2\mu\text{mol/L}$). Source: AO SHI DAN NI SU MU *Daniellia oliveri*, BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole herb). Ref: 3488.

**7162 (E)-8β,17-Epoxyabd-12-ene-15,16-dial**

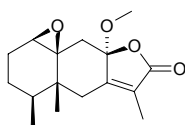
$C_{20}H_{30}O_3$ (318.46). Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. Ref: 2.

**7163 1,10-Epoxyepidozenal**

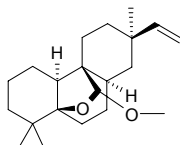
$C_{15}H_{22}O_2$ (234.34). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw). Ref: 3026.

**7164 1β,10β-Epoxy-8α-methoxyeremophil-7(11)-en-12,8β-olide**

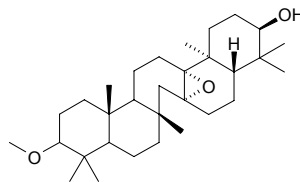
$C_{16}H_{22}O_4$ (278.35). Colorless crystals, mp 102–103°C (hexane), $[\alpha]_D = -87.5^\circ$ ($c = 1$, $CHCl_3$). Source: HUANG SE QIAN LI GUANG *Senecio flavus*. Ref: 2409.

**7165 5β,20-Epoxy-20-methoxy-ros-15-ene**

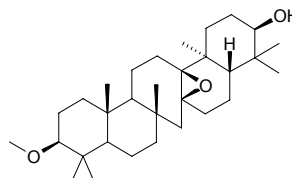
$C_{21}H_{34}O_2$ (318.50). $[\alpha]_D^{20} = +33^\circ$ ($c = 0.12$, $CHCl_3$). Source: *Gackstroemia decipiens*. Ref: 3907.

**7166 13α,14α-Epoxy-3β-methoxyserratan-21β-ol**

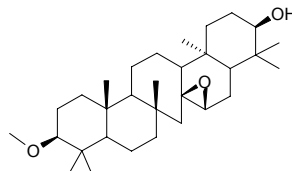
$C_{31}H_{52}O_3$ (472.76). Prisms, mp 242–244°C (MeOH– $CHCl_3$), $[\alpha]_D = +31^\circ$ ($c = 0.38$). Source: RI BEN YU LIN SONG *Picea jezoensis* (cuticle). Ref: 3076.

**7167 13β,14β-Epoxy-3β-methoxyserratan-21β-ol**

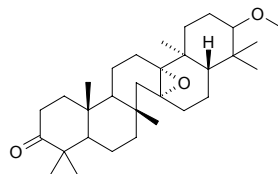
$C_{31}H_{52}O_3$ (472.76). Colorless prisms, mp 264–267°C, $[\alpha]_D^{23.5} = +4.7^\circ$ ($c = 0.11$, $CHCl_3$). Pharm: Antineoplastic promoter (mouse skin carcinogenesis, TPA-induced EBV-EA activation assay, compound concentration (mol ratio/32 pmol TPA) = 500, EBV-EA viability = 25.7%, IC_{50} (mol ratio/32 pmol TPA) = 288; control Oleonic acid, compound concentration (mol ratio/32 pmol TPA) = 500, EBV-EA viability = 30.0%, IC_{50} (mol ratio/32 pmol TPA) = 360). Source: YU LIN YUN SHAN *Picea jezoensis* var. *jezoensis* (stem cortex). Ref: 5477.

**7168 14β,15β-Epoxy-3β-methoxyserratan-21β-ol**

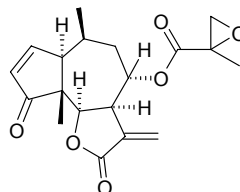
$C_{31}H_{52}O_3$ (472.76). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 5349.

**7169 13α,14α-Epoxy-21α-methoxyserratan-3-one**

$C_{31}H_{50}O_3$ (470.74). Prisms, mp 219–222°C (MeOH– $CHCl_3$), $[\alpha]_D = -98^\circ$ ($c = 0.83$). Source: RI BEN YU LIN SONG *Picea jezoensis* (cuticle). Ref: 3076.

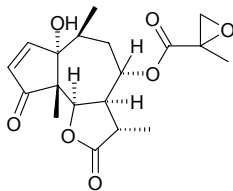
**7170 8α-Epoxyethylacrylyloxyambrosin**

[219319-63-8] $C_{19}H_{22}O_6$ (346.38). Source: YIN JIAO JU *Parthenium hysterophorus*. Ref: 2393.

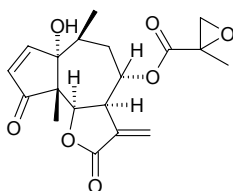


7171 8 α -Epoxyethylacryloyloxy-11,13-dihydroparthenin

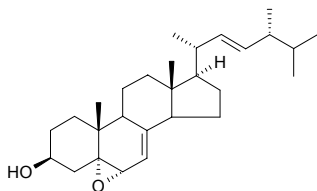
[219319-61-6] C₁₉H₂₄O₇ (364.40). Non-crystalline. Source: YIN JIAO JU *Parthenium hysterophorus*. Ref: 2393.

**7172 8 α -Epoxyethylacryloyloxyparthenin**

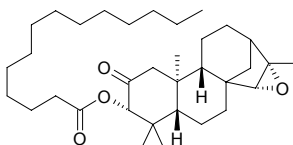
[219319-59-2] C₁₉H₂₂O₇ (362.38). Non-crystalline. Source: YIN JIAO JU *Parthenium hysterophorus*. Ref: 2393.

**7173 5,6-Epoxy-24(R)-methylcholesta-7,22-dien-3 β -ol**

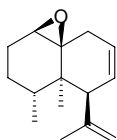
[23637-31-2] C₂₈H₄₄O₂ (412.66). Source: DONG CHONG XIA CAO *Cordyceps sinensis*. Ref: 2322.

**7174 ent-15,16-Epoxy-3 β -myristoyloxy-kauran-2-one**

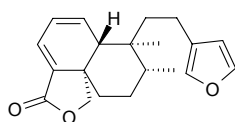
C₃₄H₅₆O₄ (528.82). Amorphous, [α]_D²⁴ = -33° (*c* = 0.41, MeOH). Pharm: Antibacterial (inhibits colony formation of *X. campestris* pv. *oryzae*, 500mg/L, InRt = 30%). Source: DAO CAO *Oryza sativa* (leaf). Ref: 3814.

**7175 1 β ,10 β -Epoxy-nardosin-7,11-diene**

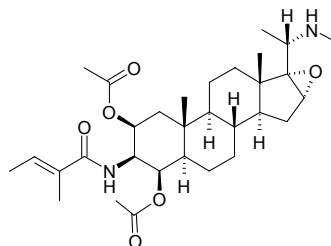
C₁₅H₂₂O (218.34). [α]_D²⁰ = +195° (*c* = 0.61, CHCl₃). Source: *Gackstroemia decipiens*. Ref: 3907.

**7176 15,16-Epoxy-neo-clerodan-1,3,13(16),14-tetraen-18,19-olide**

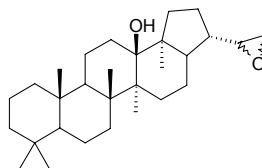
C₂₀H₂₄O₃ (312.41). Colorless oil, [α]_D²⁰ = +6.1° (*c* = 0.26, CHCl₃). Source: SHAN XING KUO BAO JU *Baccharis flabellata*. Ref: 1921.

**7177 Epoxyneepakistanine A**

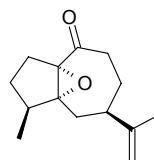
(20*S*)-20-(*N*-Methylamino)-3 β -(tigloylamino)-5 α -pregna-16 α ,17 α -epoxy-2 β ,4 β -di-*O*-acetate C₃₁H₄₈N₂O₆ (544.74). Colorless crystalline solid (CHCl₃), mp 119~120°C, [α]_D²⁵ = +14° (*c* = 0.07, CHCl₃). Pharm: BChE inhibitor (horse serum BChE, IC₅₀ = (77.4±0.024)μmol/L, control Eserine IC₅₀ = (0.857±0.008)μmol/L); AChE inhibitor (electric eel AChE, IC₅₀ > 200μmol/L, control Eserine IC₅₀ = (0.041±0.001)μmol/L). Source: YUN NAN YE SHAN HUA *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (leaf). Ref: 4241.

**7178 22,29 ξ -Epoxy-30-norhopane-13 β -ol**

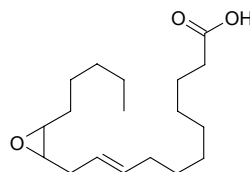
C₂₉H₄₈O₂ (428.70). Colorless solid, mp 264~266°C, [α]_D²⁵ = +15.10° (*c* = 0.25, CHCl₃). Pharm: Antibacterial (*Salmonella typhimurium*, 100μg/disk, IZD = 9mm, control Kanamycin, 30μg/disk, IZD = 14mm; *Bacillus subtilis*, 100μg/disk, IZD = 8mm, Kanamycin, 30μg/disk, IZD = 31mm). Source: BAN YUE XING TIE XIAN JUE *Adiantum lunulatum*. Ref: 5124.

**7179 (+)-1,5-Epoxy-nor-ketoguaia-11-ene**

C₁₄H₂₀O₂ (220.31). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

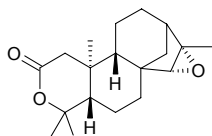
**7180 (±)-12,13-Epoxyoleic acid**

C₁₈H₃₂O₃ (296.45). [α]_D²⁰ = 0° (*c* = 0.5, CHCl₃). Pharm: COX-1 inhibitor (100μg/mL, InRt = 30%, control *trans*-Resveratrol, IC₅₀ = 0.25μg/mL); COX-2 inhibitor (100μg/mL, InRt = 58%, control *trans*-Resveratrol, IC₅₀ = 0.30μg/mL). Source: LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). Ref: 5030.

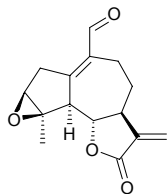


7181 ent-15,16-Epoxy-3-oxa-kauran-2-one

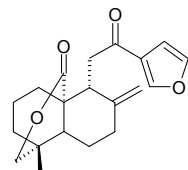
$C_{19}H_{28}O_3$ (304.43). Colorless needle crystals, mp 183°C, $[\alpha]_D^{24} = -54^\circ$ ($c = 0.05$, MeOH). **Pharm:** Antibacterial (inhibits colony formation of *X. campestris* pv. *oryzae*, 210mg/L, InRt = 45%). **Source:** DAO CAO *Oryza sativa* (leaf). **Ref:** 3814.

**7182 5aH-3β,4β-Epoxy-14-oxo-guaia-1(10),11(13)-dien-6α,12-olide**

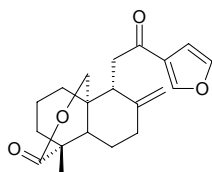
$C_{15}H_{16}O_4$ (260.29). Colorless gum, $[\alpha]_D^{20} = +9.4^\circ$ ($c = 0.1$, EtOH). **Pharm:** Cytotoxic (KB ATCC CCL17, $IC_{50} = 3.5\mu\text{g/mL}$). **Source:** *Warionia saharae*. **Ref:** 5399.

**7183 15,16-Epoxy-12-oxo-8(17),13(16),14-ent-labdatrien-20,19-olide**

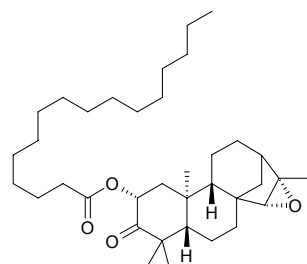
$C_{20}H_{24}O_4$ (328.41). Colorless oil, $[\alpha]_D^{25} = +22.5^\circ$ ($c = 0.43$, CHCl_3). **Source:** FU YE YAN ZI CAI *Potamogeton natans*. **Ref:** 5184.

**7184 15,16-Epoxy-12-oxo-8(17),13(16),14-ent-labdatrien-19,20-olide**

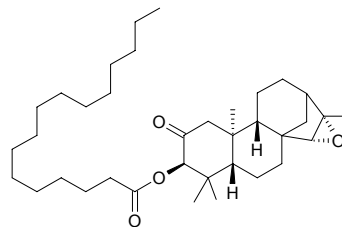
$C_{20}H_{24}O_4$ (328.41). Colorless oil, $[\alpha]_D^{25} = +65.3^\circ$ ($c = 0.04$, CHCl_3). **Source:** FU YE YAN ZI CAI *Potamogeton natans*. **Ref:** 5184.

**7185 ent-15,16-Epoxy-2β-palmitoyloxy-kauran-2-one**

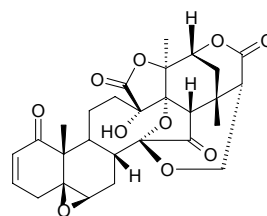
$C_{36}H_{60}O_4$ (556.88). Amorphous, $[\alpha]_D^{24} = -67^\circ$ ($c = 0.34$, MeOH). **Pharm:** Antibacterial (inhibits colony formation of *X. campestris* pv. *oryzae*, 500mg/L, InRt = 45%). **Source:** DAO CAO *Oryza sativa* (leaf). **Ref:** 3814.

**7186 ent-15,16-Epoxy-3α-palmitoyloxy-kauran-2-one**

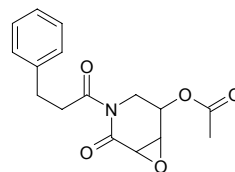
$C_{36}H_{60}O_4$ (556.88). Amorphous, $[\alpha]_D^{24} = -17^\circ$ ($c = 0.14$, MeOH). **Source:** DAO CAO *Oryza sativa* (leaf). **Ref:** 3814.

**7187 5β,6β-Epoxyphysalin B**

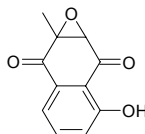
$C_{28}H_{30}O_{10}$ (526.55). **Source:** TIAN PAO ZI *Physalis minima*. **Ref:** 6.

**7188 3α,4α-Epoxy-5β-pipermethystine**

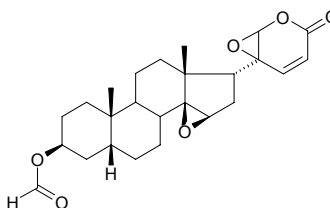
$C_{16}H_{17}NO_5$ (303.32). Colorless needles (hexane), mp 59°C, $[\alpha]_D^{22} = -98.8^\circ$ ($c = 0.5$, Me_2CO). **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 3373.

**7189 2,3-Epoxyplumbagin**

$C_{11}H_8O_4$ (204.18). Pale yellow needles (hexane), mp 92~93°C, 95~96°C, $[\alpha]_D^{28} = -4.51^\circ$ ($c = 2.41$, CHCl_3). **Pharm:** Ichthyotoxin (MLC = 3.0mg/L, control Juglone, MLC = 0.2mg/L). **Source:** HAI SHI *Diospyros maritima* (fruit). **Ref:** 4185.

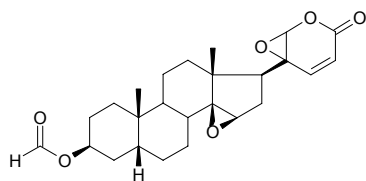
**7190 20R,21-Epoxyresibufogenin 3-formate**

$C_{25}H_{32}O_6$ (428.53). Colorless needles, mp 147~150°C, $[\alpha]_D^{19} = -11.5^\circ$ ($c = 0.1$, CHCl_3). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} > 25\mu\text{g/mL}$; MH-60, $IC_{50} > 25\mu\text{g/mL}$). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus* (dried secretion of skin glands: yield = 0.00082%dw). **Ref:** 4634.

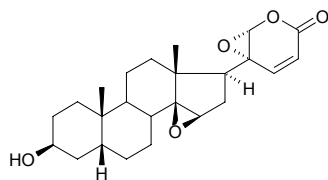


7191 20S,21-Epoxyresibufogenin 3-formate

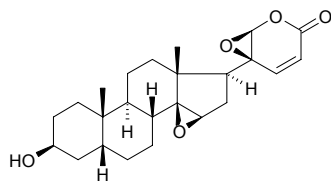
$C_{25}H_{32}O_6$ (428.53). Colorless needles, mp 180–182°C, $[\alpha]_D^{19} = +17.2^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} > 25\mu g/mL$; MH-60, $IC_{50} > 25\mu g/mL$). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus* (dried secretion of skin glands: yield = 0.0022%dw). **Ref:** 4634.

**7192 20R,21-Epoxyresibufogenin**

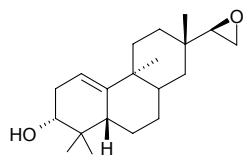
$C_{24}H_{32}O_5$ (400.52). Colorless needles, mp 90–94°C, $[\alpha]_D^{19} = -17.0^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} = 8.09\mu g/mL$; MH-60, $IC_{50} = 1.8\mu g/mL$). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus* (dried secretion of skin glands: yield = 0.031%dw). **Ref:** 4634.

**7193 20S,21-Epoxyresibufogenin**

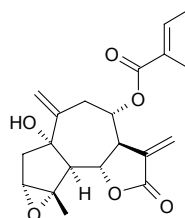
$C_{24}H_{32}O_5$ (400.52). Colorless plates, mp 184–186°C, $[\alpha]_D^{18} = +18.2^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} = 10.88\mu g/mL$; MH-60, $IC_{50} = 1.82\mu g/mL$). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus* (dried secretion of skin glands: yield = 0.044%dw). **Ref:** 4634.

**7194 (3R,15R)-ent-15,16-Epoxy-1(10)-rosen-3-ol**

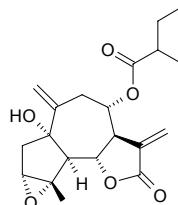
$C_{20}H_{32}O_2$ (304.48). $[\alpha]_D^{20} = -4.9^\circ$ ($c = 0.78$, $CHCl_3$). **Source:** *Heteroscyphus billardieri*, *Plagiochila deltoidea*. **Ref:** 4284.

**7195 3a,4a-Epoxyrupicolin C**

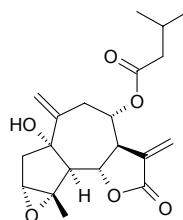
8-Angeloyloxy-1 α -hydroxy-3 α ,4 α -epoxy-5 α ,7 α H-10(14),11(13)-guaiaadien-12,6 α -olide $C_{20}H_{24}O_6$ (360.41). White amorphous powder, mp 88–89°C, $[\alpha]_D^{25} = -5.83^\circ$ ($c = 0.03$, MeOH). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (0.89\pm 0.02)\mu mol/L$, control PTN, $IC_{50} = (3.42\pm 0.08)\mu mol/L$; NO production inhibitor, $IC_{50} = (2.34\pm 0.05)\mu mol/L$, PTN, $IC_{50} = (2.41\pm 0.06)\mu mol/L$, AG, $IC_{50} = (34.18\pm 0.98)\mu mol/L$; TNF- α production inhibitor, $IC_{50} = (7.58\pm 0.22)\mu mol/L$, PTN, $IC_{50} = (2.68\pm 0.11)\mu mol/L$). **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

**7196 3a,4a-Epoxyrupicolin D**

8 α -Methylbutyryloxy-1 α -hydroxy-3 α ,4 α -epoxy-5 α ,7 α H-10(14),11(13)-guaiaadien-12,6 α -olide $C_{20}H_{26}O_6$ (362.43). White needles, mp 118–119°C, $[\alpha]_D^{25} = -10.22^\circ$ ($c = 0.01$, MeOH). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (2.73\pm 0.01)\mu mol/L$, control PTN, $IC_{50} = (3.42\pm 0.08)\mu mol/L$; NO production inhibitor, $IC_{50} = (6.16\pm 0.12)\mu mol/L$, PTN, $IC_{50} = (2.41\pm 0.06)\mu mol/L$, AG, $IC_{50} = (34.18\pm 0.98)\mu mol/L$; TNF- α production inhibitor, $IC_{50} = (9.86\pm 0.31)\mu mol/L$, PTN, $IC_{50} = (2.68\pm 0.11)\mu mol/L$). **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

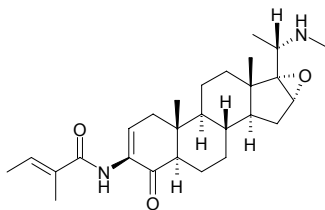
**7197 3a,4a-Epoxyrupicolin E**

8 α -Sovallyryloxy-1 α -hydroxy-3 α ,4 α -epoxy-5 α ,7 α H-10(14),11(13)-guaiaadien-12,6 α -olide $C_{20}H_{26}O_6$ (362.43). White needles, mp 117–118°C, $[\alpha]_D^{25} = -21.55^\circ$ ($c = 0.01$, MeOH). **Pharm:** Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (2.68\pm 0.06)\mu mol/L$, control PTN, $IC_{50} = (3.42\pm 0.08)\mu mol/L$; NO production inhibitor, $IC_{50} = (5.52\pm 0.15)\mu mol/L$, PTN, $IC_{50} = (2.41\pm 0.06)\mu mol/L$, AG, $IC_{50} = (34.18\pm 0.98)\mu mol/L$; TNF- α production inhibitor, $IC_{50} = (8.86\pm 0.70)\mu mol/L$, PTN, $IC_{50} = (2.68\pm 0.11)\mu mol/L$). **Source:** LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 3837.

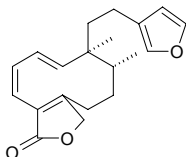


7198 Epoxysarcovagenine D

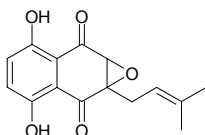
(20S)-20-(N-Methylamino)-3 β -(tigloylamino)-5 α -pregna-2-en-16 α ,17 α -epoxy-4-one C₂₇H₄₀N₂O₃ (440.63). Yellowish amorphous solid (CHCl₃), mp 119–120 °C, [α]_D²⁵ = +24° (c = 0.116, CHCl₃). Source: YUN NAN YE SHAN HUA *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (leaf). Ref: 4241.

**7199 15,16-Epoxy-5,10-seco-clerodan-1(10),2,4,13(16),14-pentaen-18,19-olide**

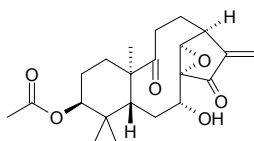
C₂₀H₂₄O₃ (312.41). Colorless oil, [α]_D²⁰ = –135.7° (c = 0.28, CHCl₃). Source: SHAN XING KUO BAO JU *Baccharis flabellata*. Ref: 1921.

**7200 2,3-Epoxy sesamone**

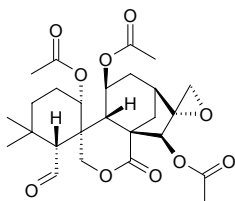
C₁₅H₁₄O₅ (274.28). Pale yellow crystals (MeOH), mp 85–86°C, [α]_D²⁵ = –43° (c = 0.34, CHCl₃). Pharm: Antifungal (*Cladosporium fulvum*, 10 μ g/spot)^[5234]. Source: HU MA GEN *Sesamum indicum*. Ref: 5234.

**7201 Epoxyshikoccin**

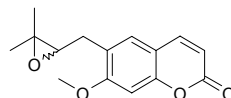
C₂₂H₃₀O₆ (390.48). mp 124–126°C, [α]_D²⁵ = –6.3° (c = 0.35, MeOH). Source: XI SI GUO XIANG CHA CAI *Isodon shikokiana* var. *occidentalis*. Ref: 4067.

**7202 16,17-Epoxyshikokianal acetate**

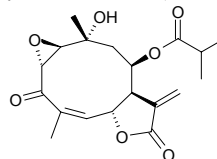
C₂₆H₃₄O₁₀ (506.55). mp 205.0–206.5°C, [α]_D²⁰ = +66° (c = 0.32, CHCl₃). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**7203 Epoxysuberosin**

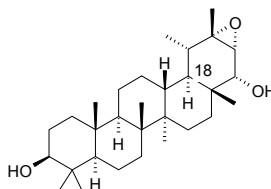
C₁₅H₁₆O₄ (260.29). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (19.9 \pm 1.2)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%), compound IC₅₀ = 208mol ratio/32 pmol TPA, β -Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA). Source: *Citrus tamurana*. Ref: 5048.

**7204 1 β ,2 α -Epoxytagitinin C**

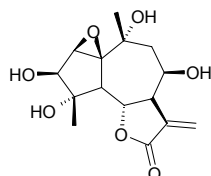
C₁₉H₂₄O₇ (364.4). Pharm: Cytotoxic (antiproliferative, Col2 cells, IC₅₀ = 1.7 μ g/mL); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μ g/mL, activity denotes percentage of cells differentiated < 10%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, 10 μ g/mL, rel-InRt = 44.4%, control DMBA, rel-InRt = 100%). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0013%dw). Ref: 4622.

**7205 20 α ,21 α -Epoxy-taraxastane-3 β ,22 α -diol**

C₃₀H₅₀O₃ (458.73). Colorless crystals, mp 223–224°C (CHCl₃–MeOH), [α]_D²⁵ = +121° (c = 0.56, CHCl₃). Pharm: Cytotoxic (SMMC-7721, IC₅₀ = (113.6 \pm 4.3) μ g/mL, control Vincristine, IC₅₀ = (63.2 \pm 1.8) μ g/mL; B16, IC₅₀ = (51.4 \pm 3.7) μ g/mL, Vincristine, IC₅₀ = (70.7 \pm 2.8) μ g/mL; HeLa, IC₅₀ = (88.7 \pm 6.0) μ g/mL, Vincristine, IC₅₀ = (67.2 \pm 2.2) μ g/mL); antibacterial (*Bacillus subtilis*, IZD = (13.9 \pm 0.8)mm, control Chloramphenicol, IZD = (14.5 \pm 1.1)mm; *Escherichia coli*, IZD = (14.1 \pm 2.9)mm, Chloramphenicol, IZD = (14.9 \pm 1.3)mm; *Staphylococcus aureus*, IZD = (10.5 \pm 2.1)mm, Chloramphenicol, IZD = (15.1 \pm 1.2)mm). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

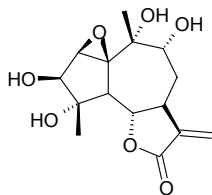
**7206 1 β ,2 β -Epoxy-3 β ,4 α ,8 β ,10 α -tetrahydroguaia-11(13)-en-12,6 α -olide**

C₁₅H₂₀O₇ (312.32). Colorless gum, [α]_D²⁰ = +31° (c = 0.12, MeOH). Pharm: Antifungal (*Candida albicans*, MIC = 20 μ g/mL)^[5222]. Source: GUAN MU YA JU *Ajania fruticulosa* (aerial parts). Ref: 5222.

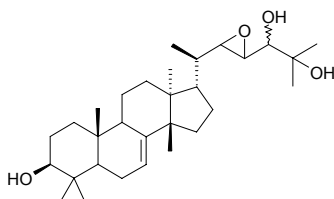


7207 1 β ,2 β -Epoxy-3 β ,4 α ,9 α ,10 α -tetrahydroxyguaia-11(13)-en-12,6 α -olide

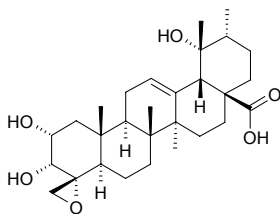
C₁₅H₂₀O₇ (312.32). Colorless gum, $[\alpha]_D^{20} = +18^\circ$ ($c = 0.10$, MeOH). **Pharm:** Antifungal (*Candida albicans*, MIC = 20 μ g/mL). **Source:** GUAN MU YA JU *Ajania fruticulosa* (aerial parts). **Ref:** 5222.

**7208 22,23-Epoxy-tirucalla-7-ene-3 β ,24,25-triol**

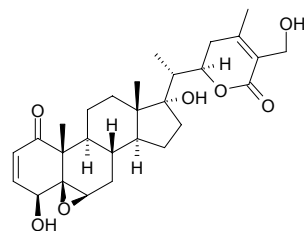
C₃₀H₅₀O₄ (474.73). Colorless needles (Me₂CO), mp 118–120°C, $[\alpha]_D^{26} = -4.7^\circ$ ($c = 0.95$, CH₃OH). **Source:** HAI NAN JIAN MU *Dysoxylum hainanense* (bark). **Ref:** 3987.

**7209 4(R),23-Epoxy-2 α ,3 α ,19 α -trihydroxy-24-norurs-12-en-28-oic acid**

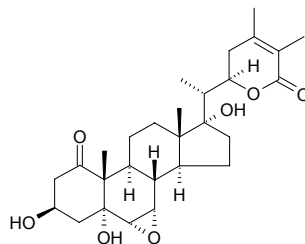
C₂₉H₄₄O₆ (488.67). White powder, mp 232–234°C, $[\alpha]_D^{25} = +33.4^\circ$ ($c = 0.05$, MeOH). **Source:** YANG TI *Rumex japonicus* (stem). **Ref:** 4541.

**7210 5 β ,6 β -Epoxy-4 β ,17 α ,27-trihydroxy-1-oxowitha-2,24-dienolide**

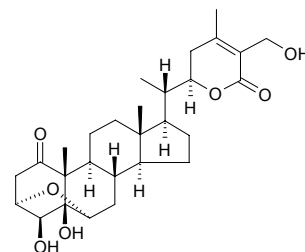
17-Hydroxy withaferin C₂₈H₃₈O₇ (486.61). White amorphous powder, $[\alpha]_D^{25} = +12^\circ$ ($c = 0.11$, CH₂Cl₂). **Pharm:** BChE inhibitor (IC₅₀ = (161.5 \pm 1.1) μ mol/L, control Galanthamine, IC₅₀ = (0.50 \pm 0.001) μ mol/L, Eserine IC₅₀ = (0.04 \pm 0.00) μ mol/L)^[2563]; AChE inhibitor inactive^[2563]. **Source:** CUI MIAN SHUI QIE *Withania somnifera*, CUI MIAN SHUI QIE *Withania somnifera* (leaf). **Ref:** 2563, 5329.

**7211 6 α ,7 α -Epoxy-3 β ,5 α ,17 α -trihydroxy-1-oxo-witha-24-enolide**

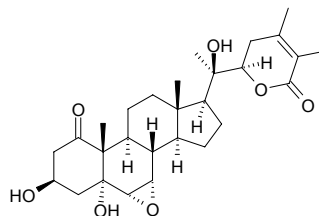
C₂₈H₄₀O₇ (488.63). mp 258°C, $[\alpha]_D^{30} = +66.00^\circ$ ($c = 0.25$, MeOH). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (leaf). **Ref:** 5329.

**7212 (20S,22R)-3 α ,6 α -Epoxy-4 β ,5 β ,27-trihydroxy-1-oxowitha-24-enolide**

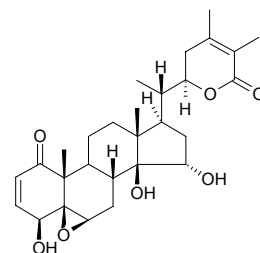
C₂₈H₄₀O₇ (488.63). Amorphous powder, $[\alpha]_D^{23} = -17.4^\circ$ ($c = 0.109$, MeOH). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 μ mol/L). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

**7213 6 α ,7 α -Epoxy-3 β ,5 α ,20 β -trihydroxy-1-oxowitha-24-enolide**

C₂₈H₄₀O₇ (488.63). White amorphous powder, $[\alpha]_D^{25} = -196^\circ$ ($c = 0.006$, MeOH). **Pharm:** AChE inhibitor inactive; BChE inhibitor inactive. **Source:** CUI MIAN SHUI QIE *Withania somnifera*. **Ref:** 2563.

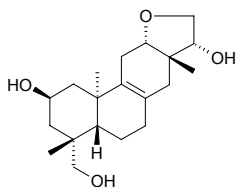
**7214 (20S,22R)-5 β ,6 β -epoxy-4 β ,14 β ,15 α -trihydroxy-1-oxowitha-2,24-dienolide**

C₂₈H₃₈O₇ (486.61). Colorless needles, $[\alpha]_D = +68^\circ$ ($c = 0.2$, MeOH). **Source:** DENG LONG CAO *Physalis peruviana*. **Ref:** 1915.

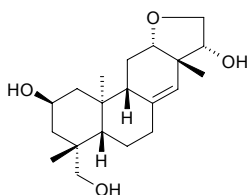


7215 ent-12 α ,16-Epoxy-2 β ,15 α ,19-trihydroxypimar-8-ene

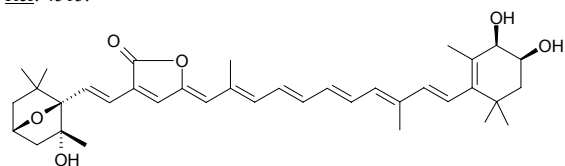
C₂₀H₃₂O₄ (336.48). White amorphous powder, $[\alpha]_D^{20} = +13.8^\circ$ ($c = 0.63$, MeOH). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00033%). Ref: 4764.

**7216 ent-12 α ,16-Epoxy-2 β ,15 α ,19-trihydroxypimar-8(14)-ene**

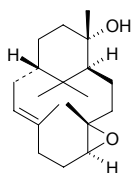
C₂₀H₃₂O₄ (336.48). White amorphous powder, $[\alpha]_D^{20} = +6.5^\circ$ ($c = 1.40$, MeOH). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00083%). Ref: 4764.

**7217 3,6-Epoxy-5,3',4'-trihydroxy-12',13',20'-trinor- β , β -caroten-19,11-olide**

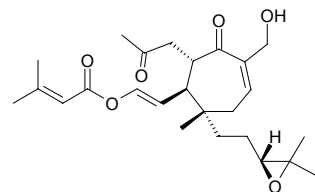
C₃₇H₄₈O₆ (588.79). Reddish solid. Source: MU LI (Oyster) *Crassostrea gigas*. Ref: 4515.

**7218 (9S,10S)-ent-9,10-Epoxyverticillol**

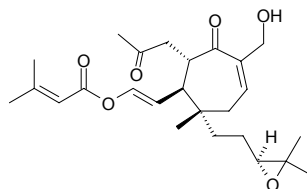
C₂₀H₃₄O₂ (306.49). Colorless crystals (*n*-hexane), mp 157~158°C, $[\alpha]_D^{18} = -114.2^\circ$ ($c = 1.81$). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

**7219 14R*,15-Epoxyvibsanin C**

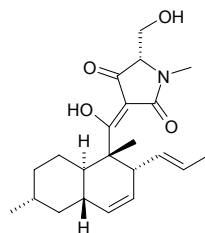
C₂₅H₃₆O₆ (432.56). Colorless oil, $[\alpha]_D^{20} = +97.0^\circ$ ($c = 0.12$, CHCl₃). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

**7220 14S*,15-Epoxyvibsanin C**

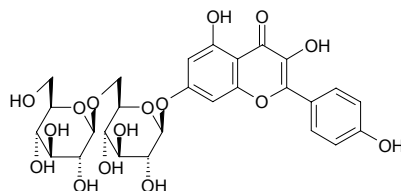
C₂₅H₃₆O₆ (432.56). Colorless oil, $[\alpha]_D^{20} = +86.0^\circ$ ($c = 0.12$, CHCl₃). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

**7221 Equisetin**

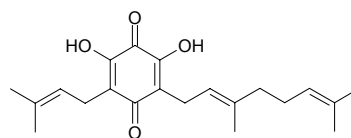
[57749-43-6] C₂₂H₃₁NO₄ (373.50). Amorphous powder, mp 65~66°C. Pharm: Antibacterial (gram-positive bacteria). Source: *Fusarium equiseti*. Ref: 2094.

**7222 Equisetrin**

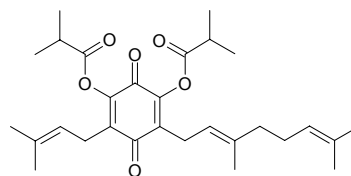
C₂₇H₃₀O₁₆ (610.53). mp 195~196°C. Source: WEN JING *Equisetum arvense*. Ref: 6, 1521.

**7223 Erectquione A**

2,6-Dihydroxyl-3-geranyl-5-isoprenyl-2,5-dihexadiene-1,4-dione C₂₁H₂₈O₄ (344.45). Red oil. Source: XIAO LIAN QIAO *Hypericum erectum*. Ref: 1990.

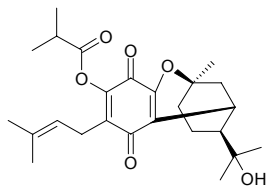
**7224 Erectquione B**

2,6-Diisobutyryloxy-3-geranyl-5-isoprenyl-2,5-dihexadiene-1,4-dione C₂₉H₄₀O₆ (484.64). Yellow oil. Source: XIAO LIAN QIAO *Hypericum erectum*. Ref: 1990.

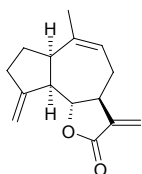


7225 Erectquione C

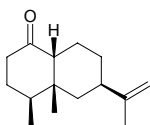
$C_{25}H_{34}O_6$ (430.55). Yellow oil, $[\alpha]_D^{25} = -10^\circ$ ($c = 0.10$, $CHCl_3$). Source: XIAO LIAN QIAO *Hypericum erectum*. Ref: 1990.

**7226 Eremanthin**

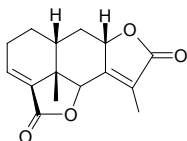
Vanillosmin [37936-58-6] $C_{15}H_{18}O_2$ (230.31). Pharm: Schistosomacide. Source: *Vernonia* sp. Ref: 658.

**7227 Eremofukinone**

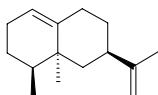
$C_{15}H_{24}O$ (220.36). bp 75~100°C/0.15mmHg. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**7228 8βH-Eremophil-3,7(11)-diene-12,8α(14,6α)-diolide**

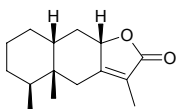
$C_{15}H_{16}O_4$ (260.29). Colorless plates, mp 230~231°C, $[\alpha]_D^{20} = +28.0^\circ$ ($c = 0.20$, $CHCl_3$). Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.

**7229 Eremophilene**

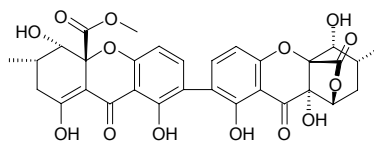
$C_{15}H_{24}$ (204.36). bp 129.5°C/13mmHg. Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FENG DOU CAI *Petasites japonicus*, XIE CAO *Valeriana officinalis*. Ref: 2.

**7230 Eremophilenolide**

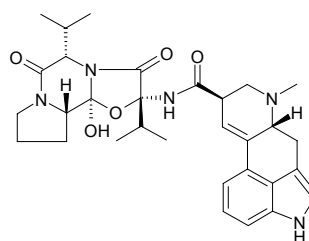
$C_{15}H_{22}O_2$ (234.34). Pharm: Antispasmodic. Source: *Petasites* sp. Ref: 658.

**7231 Ergochrysin**

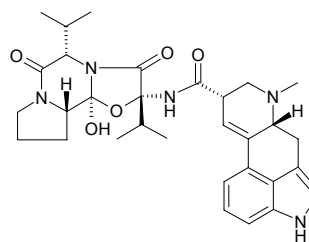
$C_{31}H_{28}O_{14}$ (624.56). mp 285°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7232 Ergocornine**

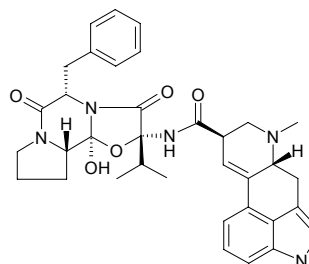
[564-36-3] $C_{31}H_{39}N_5O_5$ (561.69). mp 181~184°C (dec). Pharm: Antineoplastic (rat, mammary cancer caused by DMBA); inhibits release of galactin; uterine stimulant; contracts blood vessels. Source: MAI JIAO *Claviceps purpurea*, WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*]. Ref: 5, 6, 658.

**7233 Ergocorninine**

[564-37-4] $C_{31}H_{41}N_5O_5$ (563.70). mp 228°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

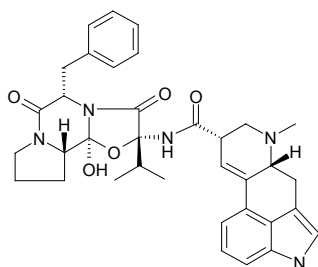
**7234 Ergocristine**

[511-08-0] $C_{35}H_{39}N_5O_5$ (609.73). mp 165~170°C (dec). Pharm: Contracts blood vessels (similar physiological activity with ergot); inhibits release of galactin. Source: MAI JIAO *Claviceps purpurea*. Ref: 6, 658.

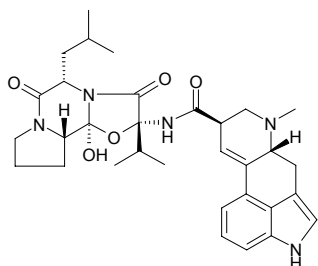


7235 Ergocristinine

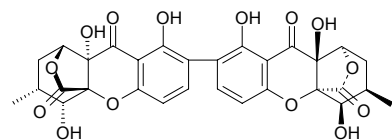
[511-07-9] C₃₅H₃₉N₅O₅ (609.73). mp 214°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7236 Ergocryptine**

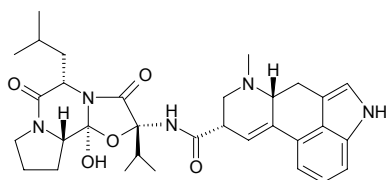
Ergokryptine [511-09-1] C₃₂H₄₁N₅O₅ (575.71). Combining with solvent, prismatic crystals (acetone or benzene or methanol); recrystallization in methanol, mp 212°C (dec), [α]_D²⁰ = -120° (pyridine); [α]_D²⁰ = -198° (chloroform). Pharm: Antineoplastic; galactin inhibitor (female sheep); toxin. Source: MAI JIAO *Claviceps purpurea*. Ref: 5, 6, 658.

**7237 Ergoflavine**

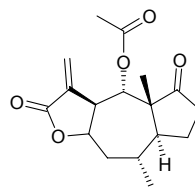
C₃₀H₂₆O₁₄ (610.53). mp 350°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7238 α-Ergokryptinine**

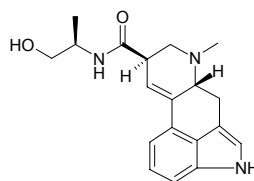
[511-10-4] C₃₂H₄₁N₅O₅ (575.71). mp 240~242°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7239 Ergolide**

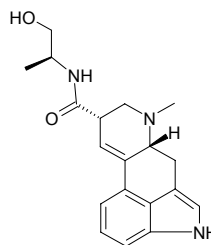
[54999-07-4] C₁₇H₂₂O₅ (306.36). White acicular crystals, mp 169~170°C, [α]_D²⁰ = +133° (c = 1.26, CH₂Cl₂). Pharm: Anti-inflammatory (NF-κB pathway)^[4415], anti-inflammatory (NO production inhibitor)^[4415]. Source: SHUI CHAO YANG *Inula helianthus-aquatica*. Ref: 430, 4415.

**7240 Ergometrine**

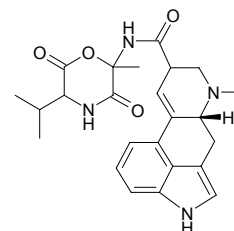
Ergobasine; Ergonovine; Ergostetrine; Ergoklinine; Ergotrate; Syntometrine [60-79-7] C₁₉H₂₃N₃O₂ (325.41). Tetrahedral crystals (acetic ester), acicular crystals (benzene), mp 162°C, [α]_D²⁰ = -16° (c = 1, peridine), [α]_D²⁰ = -44° (chloroform), [α]_D²⁰ = +42° (ethanol), easily soluble in methanol, ethanol, acetic ester, acetone, slightly soluble in chloroform.^[5507] Pharm: Inhibits release of galactin; similar action with arterenol to nerve system; uterine stimulant; used in treatment of post-partum uterus bleeding. Source: MAI JIAO *Claviceps purpurea*, YIN YE SHU *Ipomoea argyrophylla* MO XI GE XUAN HUA *River corymbosa* (the compound was isolated from the plant by A.Hofmann, et al. in 1961)^[5505]. Ref: 4, 658, 5505, 5507.

**7241 Ergometrinine**

[479-00-5] C₁₉H₂₃N₃O₂ (325.41). mp (+) 195~197°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

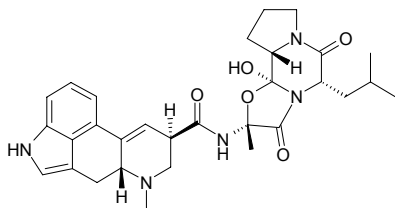
**7242 Ergosecalinine**

C₂₄H₂₈N₄O₄ (436.52). mp 217°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

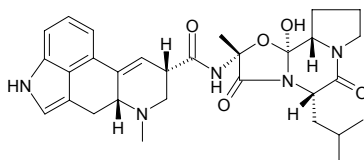


7243 Ergosine

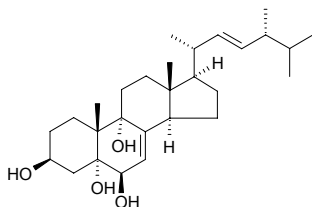
[561-94-4] C₃₀H₃₇N₅O₅ (547.66). mp 228°C (dec). **Pharm:** Anti-fertility agent (rat, sc); anti-inflammatory (rat, swollen foot model caused by 5-HT and carrageenan); 5-HT receptor blocker (gpg uterus *in vitro*); adrenergic α -receptor blocker (gpg testis *in vitro*); contracts blood vessels and increases blood pressure (cat, iv); inhibits release of galactin; oxytocic (rbt uterus iv, *in vivo*); similar action with ergotamine. **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6, 658.

**7244 Ergosinine**

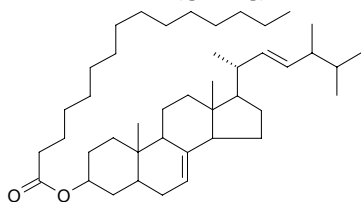
[596-88-3] C₃₀H₃₇N₅O₅ (547.66). mp 228°C (dec). **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6.

**7245 22E,24R-Ergosta-7,22-diene-3 β ,5 α ,6 β ,9 α -tetraol**

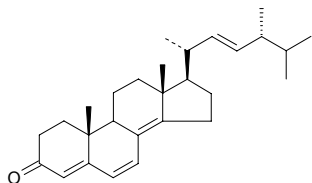
C₂₈H₄₆O₄ (446.68). White powder. **Source:** DUO ZHI RU GU *Lactarius rolemus*. **Ref:** 752.

**7246 Ergosta-7,22-dien-3 β -yl pentadecanoate**

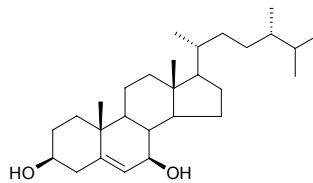
C₄₃H₇₄O₂ (623.07). White powder, mp 113~115°C. **Source:** LING ZHI *Ganoderma lucidum* (sporocarp). **Ref:** 4810.

**7247 Ergosta-4,6,8(14),22-tetraen-3-one**

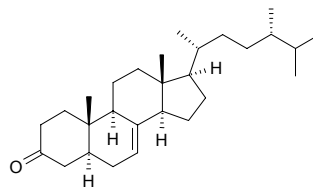
[19254-69-4] C₂₈H₄₀O (392.63). mp 114~115°C. **Source:** A LI HONG *Fomes officinalis*, LING *Trapa bispinosa*, ZHU LING *Polyporus umbellatus*. **Ref:** 2, 6.

**7248 (24S)-Ergost-5-en-3 β ,7 β -diol**

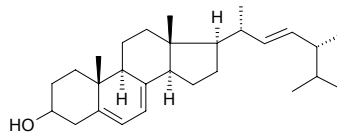
C₂₈H₄₈O₂ (416.69). Colorless crystals, mp 211~213°C, $[\alpha]_D^{28} = -64.1^\circ$ ($c = 0.05$, CHCl₃). **Source:** *Lobophytum* sp. **Ref:** 4432.

**7249 Ergost-7-en-3-one**

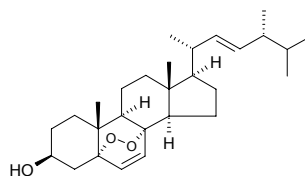
5 α ,8 α -Epi-dioxiergost-6-en-3 β -ol C₂₈H₄₆O (398.68). **Source:** MU TI CENG KONG JUN *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*]. **Ref:** 3972.

**7250 Ergosterol**

(22E)-Ergosta-5,7,22-trien-3 β -ol [57-87-4] C₂₈H₄₄O (396.66). mp 163°C. **Pharm:** Transforms into vitamin D₂ under ultraviolet ray. **Source:** A LI HONG *Fomes officinalis*, BAI JIANG CAN *Bombyx mori*, BAI QU CAI *Chelidonium majus*, DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.213%^[5508]), FU LING *Poria cocos*, JI ZONG *Collybia albuminosa*, LING ZHI *Ganoderma lucidum*, MA BO *Lasiosphaera fenzlii*, MAI JIAO *Claviceps purpurea*, MU ER *Auricularia auricula*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.210%^[5508]), SANG HUANG *Phellinus igniarius*, SHUANG BAO MO GU *Agaricus bisporus*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*], XIANG XUN *Lentinus edodes*, YONG CHONG CAO *Cordyceps militaris* (sclerotium and stroma: content = 0.226%^[5508]), YUAN CAN SHA *Bombyx mori*, ZHEN MO *Armillariella mellea*, ZHU LING *Polyporus umbellatus*, ZI ZHI *Ganoderma japonicum* [Syn. *Ganoderma sinense*], occurs in many plants. **Ref:** 2, 6, 587, 660, 1407, 5508.

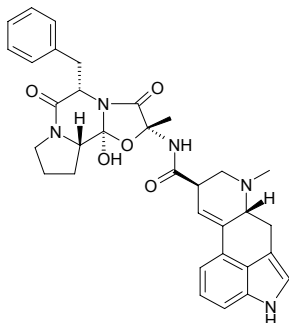
**7251 Ergosterol peroxide**

5 α ,8 α -Epidioxiergosta-6,22-dien-3 β -ol [2061-64-5] C₂₈H₄₄O₃ (428.66). Colorless acicular crystals, mp 182~184°C, mp 165~169°C, $[\alpha]_D^{25} = -34^\circ$ ($c = 0.6$, CHCl₃). **Pharm:** Anti-HIV-1 (weakly). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.003%^[4603]), ZI DING XIANG MO *Lepista nuda*, *Pleurotus eryngii*, *Antrodia camphorata* (fruit: yield = 0.060%dw). **Ref:** 2169, 3003, 4183, 4603.

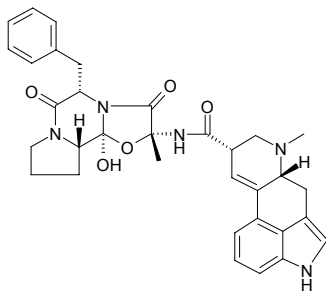


7252 Ergotamine

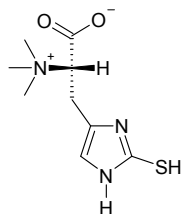
[113-15-5] C₃₃H₃₅N₅O₅ (581.68). mp 212~214°C (dec). Pharm: Adrenergic receptor blocker (large dose, to turn over boost pressure action due to adrenalin); smooth muscle stimulant (peripheral blood vessel *in vitro*); relieves headache (recovers normal for over-dilation and excess beat of cerebral arteries); uterine stimulant; toxin (damages vascular endothelial cells in high dose). Source: MAI JIAO *Claviceps purpurea*. Ref: 4, 658.

**7253 Ergotaminine**

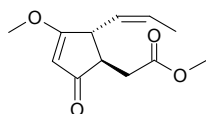
[639-81-6] C₃₃H₃₅N₅O₅ (581.68). mp 252°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7254 Ergothioneine**

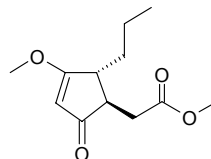
[497-30-3] C₉H₁₅N₃O₂S (229.30). mp 290°C (dec). Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**7255 Erigerenone A**

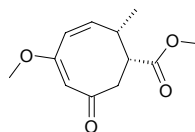
C₁₂H₁₆O₄ (224.26). Colorless oil, [α]_D²⁴ = +7.3° (c = 0.14, MeOH). Source: FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts). Ref: 4366.

**7256 Erigerenone B**

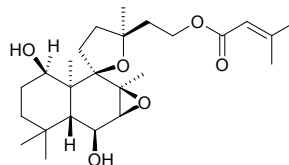
C₁₂H₁₈O₄ (226.27). Colorless oil, [α]_D²⁴ = +7.9° (c = 0.25, MeOH). Source: FEI CHENG FEI PENG *Erigeron philadelphicus*, YI NIAN PENG *Erigeron annuus*, SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4366.

**7257 Erigerenone C**

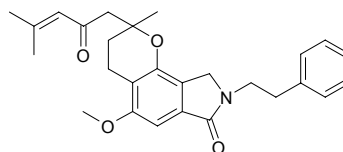
C₁₂H₁₆O₄ (224.26). Colorless oil, [α]_D²² = +4.2° (c = 0.24, MeOH). Source: FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts). Ref: 4366.

**7258 Erigerol**

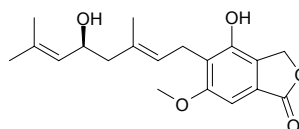
C₂₅H₄₀O₆ (436.59). Source: FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts). Ref: 4338.

**7259 Erinacerin A**

C₂₇H₃₁NO₄ (433.55). Colorless oil, [α]_D²¹ = +0° (c = 0.4, MeOH). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 4513.

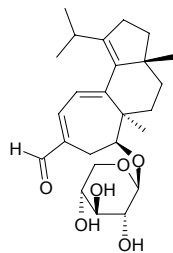
**7260 Erinacerin B**

C₁₉H₂₄O₅ (332.40). Amorphous powder, [α]_D²⁴ = +12.7° (c = 0.2, MeOH). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 4513.

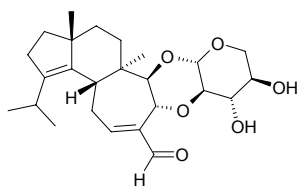


7261 Erinacine A

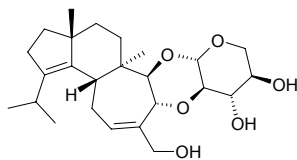
Erinacin A [156101-08-5] C₂₅H₃₆O₆ (432.56). White crystals mp 74~76°C, [α]_D = +216° (*c* = 0.28, methanol). **Pharm:** Stimulates synthesis of NGF (mus neuroglia astrocytes *in vitro*, 1.0 mmol/L, NGF = 250.1pg/mL, comparing with adrenaline NGF = 69.2pg/mL) **Source:** HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. **Ref:** 948, 1174.

**7262 Erinacine B**

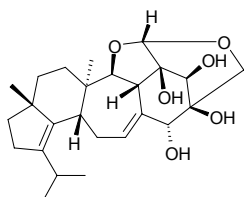
Erinacin B [156101-10-9] C₂₅H₃₆O₆ (432.56). White crystals mp 125~127°C, [α]_D = -34.9° (*c* = 0.18, methanol). **Pharm:** Stimulates synthesis of NGF (rat spider neuroglia cell *in vitro*, 1.0 mmol/L, NGF = 129pg/mL, comparing with adrenaline NGF = 69pg/mL) **Source:** HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. **Ref:** 948, 1174.

**7263 Erinacine C**

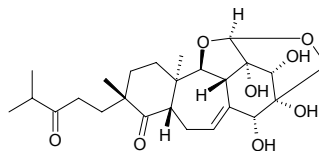
Erinacin C [156101-09-6] C₂₅H₃₈O₆ (434.58). White crystals mp 115~118°C, [α]_D = -72.5° (*c* = 0.73, methanol). **Pharm:** Stimulates synthesis of NGF (mus spider neuroglia cell *in vitro*, 1.0 mmol/L, NGF = 299pg/mL, comparing with adrenaline NGF = 69.2pg/mL) **Source:** HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. **Ref:** 948, 1174.

**7264 Erinacine E**

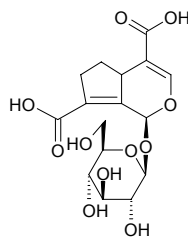
Erinacin E [178232-25-2] C₂₅H₃₆O₆ (432.56). mp 161~163°C, [α]_D²⁵ = -114° (*c* = 0.50, methanol). **Pharm:** Stimulates synthesis of NGF (rat spider neuroglia cell *in vitro*, 5.0 mmol/L, NGF = 105pg/mL) **Source:** HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. **Ref:** 1175.

**7265 Erinacine G**

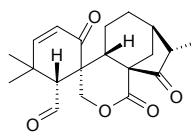
Erinacin G [182927-59-9] C₂₅H₃₆O₈ (464.56). [α]_D²⁵ = -13° (*c* = 0.25, methanol). **Source:** HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. **Ref:** 1521.

**7266 Erinaside**

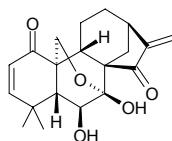
C₁₆H₂₀O₁₁ (388.33). Amorphous solid. **Source:** *Erinus alpinus* (frozen whole herb). **Ref:** 5291.

**7267 Eriocalysin A**

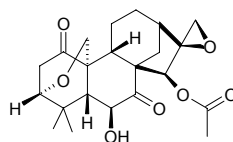
C₂₀H₂₄O₅ (344.41). mp 242~244°C, [α]_D^{18.5} = +157.2° (*c* = 0.127, CHCl₃). **Source:** MAO E XIANG CHA CAI *Rabdosia eriocalyx*. **Ref:** 4067.

**7268 Eriocalysin B**

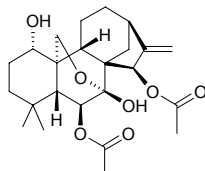
Rabdosianone C₂₀H₂₄O₅ (344.41). mp 216~218°C, [α]_D^{18.5} = -185.2° (*c* = 0.108, CHCl₃). **Source:** MAO E XIANG CHA CAI *Rabdosia eriocalyx*. **Ref:** 4067.

**7269 Eriocalysin C**

C₂₂H₂₈O₇ (404.46). mp 191.5~192.5°C, [α]_D²² = -67.1° (*c* = 0.26, MeOH). **Source:** MAO E XIANG CHA CAI *Rabdosia eriocalyx*. **Ref:** 4067.

**7270 Eriocalysin D**

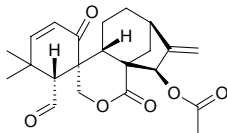
C₂₄H₃₄O₇ (434.53). mp 208~210°C, [α]_D²³ = -64.6° (*c* = 0.27, MeOH). **Source:** MAO E XIANG CHA CAI *Rabdosia eriocalyx*. **Ref:** 4067.



7271 Eriocalysin E

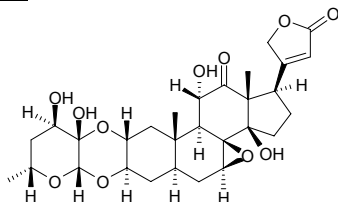
$C_{22}H_{26}O_6$ (386.45). mp 178~179.5°C, $[\alpha]_D^{23} = +92.7^\circ$ ($c = 0.27$, MeOH).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

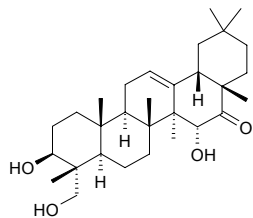
**7272 Eriocarpin**

Desglucosyrioside $C_{29}H_{38}O_{11}$ (562.62). Pharm: LD₅₀ (male Swiss Webster mus, ip) = 6.5mg/kg. Source: MAO GUO MA LI JIN *Asclepias eriocarpa*.

Ref: 658.

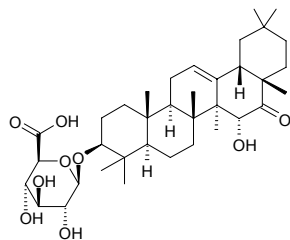
**7273 Eriocarpin B**

3 β ,15 α ,23-Trihydroxy-olean-12-en-16-one $C_{30}H_{48}O_4$ (472.71). Colorless crystals (MeOH), R[20, D] = +11.02° ($c = 0.003$, MeOH); colorless lamellar crystals, mp 218~220°C. Source: MAO GUO YU TENG *Derris eriocarpa*, YUN NAN GE TENG *Pueraria peduncularis*. Ref: 665, 2262.

**7274 Eriocarpin C**

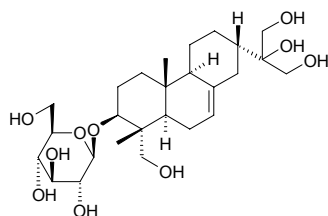
15 α -Hydroxy-16-oxo-olean-12(13)-en-3-*O*- β -glucuronopyranoside $C_{36}H_{56}O_9$ (632.84). Colorless crystals (MeOH), R[20, D] = -20.67° ($c = 0.0052$, MeOH).

Source: MAO GUO YU TENG *Derris eriocarpa*. Ref: 2262.

**7275 Eriocaside A**

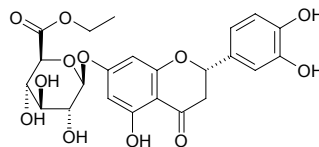
$C_{26}H_{44}O_{10}$ (516.63). $[\alpha]_D^{21} = +0.83^\circ$ ($c = 0.12$, MeOH). Source: MAO E

XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**7276 Eriodictyl 7-*O*- β -D-(6'-ethyl ester)-glucuronopyranoside**

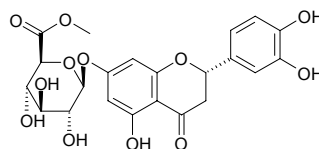
$C_{23}H_{24}O_{12}$ (492.44). Yellow needles (MeOH), mp 158~161°C, $[\alpha]_D^{20} = -58.1^\circ$ ($c = 0.56$, MeOH). Source: NIU JIN TIAO *Dichotomanthes tristaniaeacarpa*.

Ref: 2263.

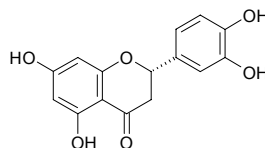
**7277 Eriodictyl 7-*O*- β -D-(6'-methyl ester)-glucuronopyranoside**

$C_{22}H_{22}O_{12}$ (478.41). Yellow needles (MeOH), mp 121~123°C, $[\alpha]_D = -71.3^\circ$ ($c = 0.61$, MeOH). Source: NIU JIN TIAO *Dichotomanthes tristaniaeacarpa*.

Ref: 2263.

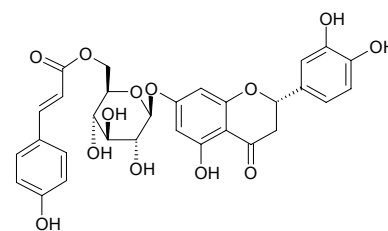
**7278 Eriodictyol**

[552-58-9] $C_{15}H_{12}O_6$ (288.26). mp 267°C. Pharm: Antibacterial (*Pseudomonas maltophilia*, *Enterobacter cloacae*); diuretic (rbt); induces gene expression of pea nodule bacteria and accrete host *Pisum sativum*; larvacide (inhibits *Heliothis zea* larva growth); aldose reductase inhibitor (rat eye lens, 10^{-5} mg/L, InRt = 90%); anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF- α release in RAW264.7 macrophages, $IC_{50} \approx 50\mu\text{mol/L}$)^{[44]61}. Source: BA DAN XING REN *Prunus amygdalus*, DA CHI JI *Onopordum acanthium*, HUANG QIN *Scutellaria baicalensis*, JIN JI ZE LAN *Eupatorium subhastatum*, LI MU *Lyonia ovalifolia*, OU BO HE *Mentha longifolia*, YOU GAN YE *Phyllanthus emblica* (branch and leaf). Ref: 6, 658, 660, 4205, 4416.

**7279 (S)-Eriodictyol-7-*O*-(6''-*O*-*trans*-*p*-coumaroyl)- β -D-glucopyranoside**

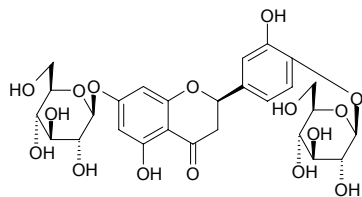
$C_{30}H_{28}O_{13}$ (596.55). Yellow amorphous powder, $[\alpha]_D^{28} = -92.8^\circ$ ($c = 0.36$, MeOH).

Source: YOU GAN YE *Phyllanthus emblica* (branch and leaf). Ref: 4205.

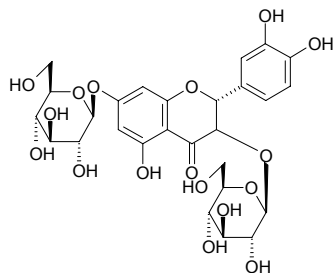


7280 (2R)-Eriodictyol-7,4'-di-O-β-D-glucopyranoside

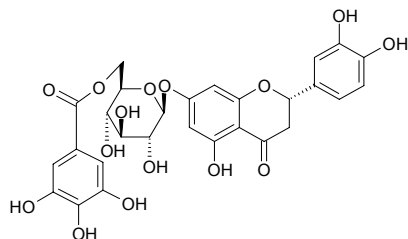
$C_{27}H_{32}O_{16}$ (612.55). Pale yellow amorphous solid. **Pharm:** Antioxidant (hydroxyl radical, $IC_{50} = 0.18\text{mmol/L}$, control EGCG, $IC_{50} = 0.58\text{mmol/L}$; superoxide anion, $IC_{50} = 0.25\text{mmol/L}$, EGCG, $IC_{50} = 0.53\text{mmol/L}$). **Source:** HU JI SHENG *Viscum coloratum* (branch and leaf: yield = 0.0008%dw). **Ref:** 920.

**7281 Eriodictyol-7,3-diglucoside**

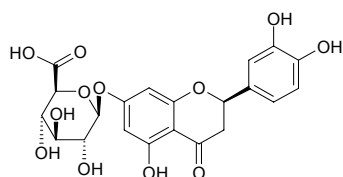
$C_{27}H_{32}O_{17}$ (628.55). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**7282 (S)-Eriodictyol-7-O-(6''-O-galloyl)-β-D-glucopyranoside**

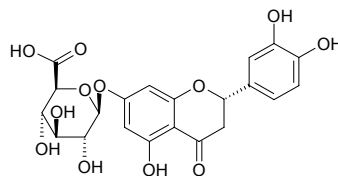
$C_{28}H_{26}O_{15}$ (602.51). Yellow amorphous powder, $[\alpha]_D^{28} = -79.4^\circ$ ($c = 0.41$, MeOH). **Source:** YOU GAN YE *Phyllanthus emblica* (branch and leaf). **Ref:** 4205.

**7283 (2R)-Eriodictyol-7-O-β-D-glucopyranosiduronic acid**

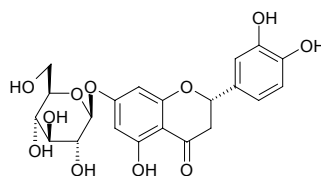
$C_{21}H_{20}O_{12}$ (464.39). Yellow powder, $[\alpha]_D^{24} = -54.5^\circ$ ($c = 0.10$, MeOH). **Pharm:** Aldose reductase inhibitor (rat lens, $IC_{50} = 1.5\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4214]. **Source:** LU SHAN SHI WEI *Pyrrosia shearerii* (dried leaf: content = 0.043%)^[5508], SHI WEI *Pyrrosia lingua* (dried leaf: content scope of 3 origins = 0.026%–0.168%, mean content = 0.0763%)^[5508], XI NAN SHI WEI *Pyrrosia gralla* (dried leaf: content = 0.037%)^[5508], YE JU HUA *Chrysanthemum indicum* (flower-head: yield = 0.0023%)^[4214], YOU BING SHI WEI *Pyrrosia petiolosa* (dried leaf: content scope of 12 origins = 0.861%–2.743%, mean content = 1.613%)^[5508], ZHAN MAO SHI WEI *Pyrrosia drakeana* (dried leaf: content = 0.051%)^[5508]. **Ref:** 4214, 5508.

**7284 (2S)-Eriodictyol-7-O-β-D-glucopyranosiduronic acid**

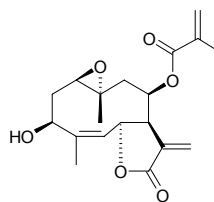
$C_{21}H_{20}O_{12}$ (464.39). Yellow powder, $[\alpha]_D^{26} = -35.6^\circ$ ($c = 0.20$, MeOH). **Pharm:** Aldose reductase inhibitor (rat lens, $IC_{50} = 2.1\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** YE JU HUA *Chrysanthemum indicum* (flower: yield = 0.0027%). **Ref:** 4214.

**7285 Eriodictyol-7-glucoside**

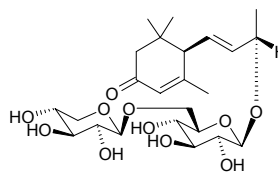
[In DNP] $C_{21}H_{22}O_{11}$ (450.40). mp 175–177°C. **Source:** SHUI YANG ZHI YE *Salix purpurea*, YOU GAN YE *Phyllanthus emblica* (branch and leaf). **Ref:** 6, 4205.

**7286 Erioflorin**

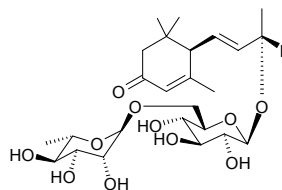
$C_{19}H_{24}O_6$ (348.40). **Source:** *Viguiera eriophora* ssp. *eriophora* (aerial parts), *Viguiera puruana* (aerial parts). **Ref:** 5090.

**7287 Eriojaposide A**

(6R,9R)-3-Oxo-α-ionyl-9-O-β-xylopyranosyl-(1''→6')-β-glucopyranoside $C_{24}H_{38}O_{11}$ (502.56). Amorphous powder, $[\alpha]_D^{23} = +26.7^\circ$ ($c = 1.0$, MeOH). **Source:** PI PA YE *Eriobotrya japonica* (branch and leaf). **Ref:** 3061.

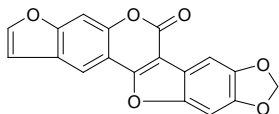
**7288 Eriojaposide B**

(6R,9R)-3-Oxo-α-ionyl-9-O-α-rhamnopyranosyl-(1''→6')-β-glucopyranoside $C_{25}H_{40}O_{11}$ (516.59). Amorphous powder, $[\alpha]_D^{23} = +33.5^\circ$ ($c = 1.0$, MeOH). **Source:** PI PA YE *Eriobotrya japonica* (branch and leaf). **Ref:** 3061.

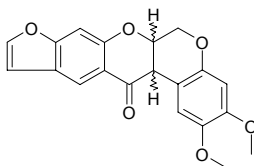


7289 Erosnine

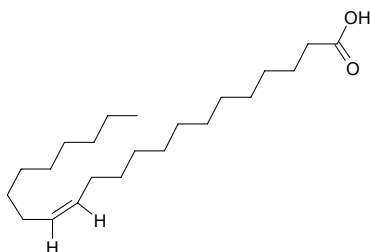
[In DNP] C₁₈H₈O₆ (320.26). mp 350°C (dec). Source: DI GUA ZI *Pachyrhizus erosus*. Ref: 6.

**7290 Erosone**

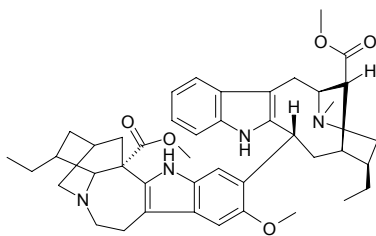
[15236-21-2] C₂₀H₁₆O₆ (352.35). mp 218°C. Source: DI GUA ZI *Pachyrhizus erosus*. Ref: 6.

**7291 Erucic acid**

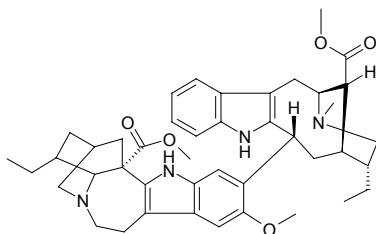
cis-13-Docosenoic acid [112-86-7] C₂₂H₄₂O₂ (338.58). mp 33.5–34.0°C, bp 241–243°C/5mmHg. Source: BO NIANG HAO *Descurainia sophia*, GUI ZHU XIANG *Cheiranthus cheiri*, HAN LIAN HUA *Tropaeolum majus*, LAI FU ZI *Raphanus sativus*, YUN TAI ZI *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*]. Ref: 6, 658, 660.

**7292 Ervdivaricatine A**

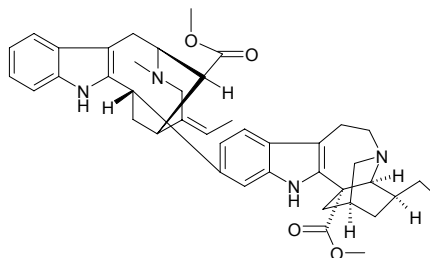
C₄₃H₅₆N₄O₅ (708.95). mp 217–220°C. Source: DAN BAN GOU YA HUA *Ervatamia divaricata*. Ref: 802.

**7293 Ervdivaricatine B**

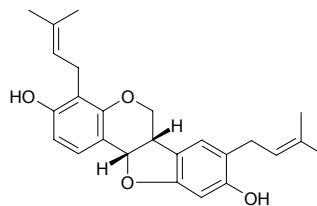
C₄₃H₅₆N₄O₅ (708.95). mp 190°C. Source: DAN BAN GOU YA HUA *Ervatamia divaricata*. Ref: 802.

**7294 Ervahanine A**

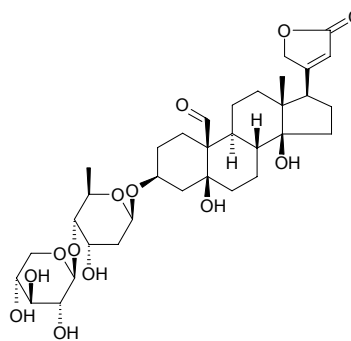
C₄₂H₅₀N₄O₄ (674.89). Source: SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. Ref: 3403.

**7295 Erybraedin C**

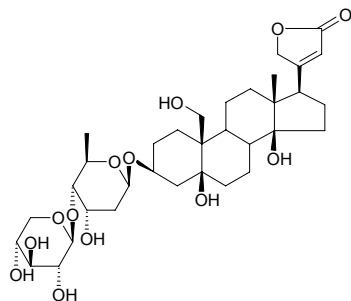
C₂₅H₂₈O₄ (392.50). [α]_D²⁵ = -17° (c = 0.5, MeOH). Pharm: Cytotoxic (KB, IC₅₀ = (23.7±0.5)μmol/L, control Helenalin, IC₅₀ = (0.64±0.08)μmol/L, Melphalan, IC₅₀ = (6.0±0.5)μmol/L; Mono-Mac-6, IC₅₀ = (28.6±1.4)μmol/L, Helenalin, IC₅₀ = (3.1±0.3)μmol/L; Jurkat-T, IC₅₀ = (21.4±0.5)μmol/L, Helenalin, IC₅₀ = (1.14±0.08)μmol/L, Melphalan, IC₅₀ = (9.1±0.8)μmol/L). Source: *Bituminaria morisiana* (leaf). Ref: 5077.

**7296 Erychroside**

[630-65-9] C₃₄H₅₀O₁₃ (666.77). mp 243–246°C, [α]_D = +18° (methanol). Pharm: Cardiotonic; antihypertensive. Source: GUI ZHU TANG JIE *Erysimum cheiranthoides*. Ref: 6, 661.

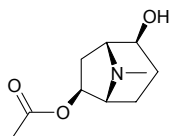
**7297 Erychrosol**

C₃₄H₅₂O₁₃ (668.79). Source: GUI ZHU TANG JIE *Erysimum cheiranthoides*. Ref: 6.

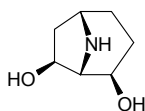


7298 Erycibe alkaloid II

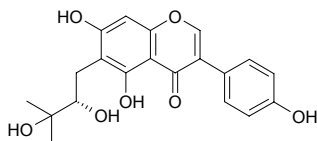
$C_{10}H_{17}NO_3$ (199.25). White mucilage, $[\alpha]_D^{20} = -5.56^\circ$ ($c = 0.90$, $CHCl_3$); benzoate: white tiny acicular crystals (benzene or acetone), mp 160–161°C. **Pharm:** Antihypertensive (rbt, iv, 0.5mL of 0.025% solution); causes miosis. **Source:** DING GONG TENG *Erycibe obtusifolia*. **Ref:** 661.

**7299 Erycibelline**

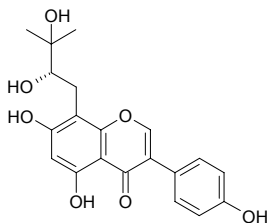
2β,7β-Dihydroxynortropine [107633-95-4] $C_7H_{13}NO_2$ (143.19). Alkaline colorless oleaginous, $[\alpha]_D^{10} = -12.5^\circ$ ($c = 0.57$, ethanol). **Source:** AO MAI DING GONG TENG *Erycibe elliptilimba*. **Ref:** 68.

**7300 Erycibenin A**

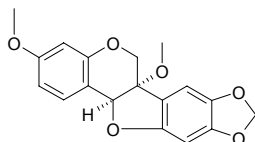
$C_{20}H_{20}O_7$ (372.38). **Pharm:** Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), $IC_{50} = 79\mu\text{mol/L}$, control Silybin $IC_{50} = 41\mu\text{mol/L}$). **Source:** GUANG BU DING GONG TENG *Erycibe expansa*. **Ref:** 4095.

**7301 Erycibenin B**

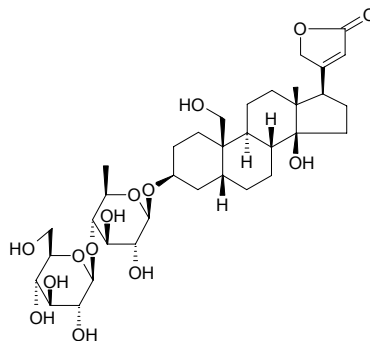
$C_{20}H_{20}O_7$ (372.38). **Pharm:** Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), $100\mu\text{mol/L}$, $\text{InRt} = (31.9 \pm 0.3)\%$, weak, control Silybin, $100\mu\text{mol/L}$, $\text{InRt} = (77.0 \pm 5.5)\%$). **Source:** GUANG BU DING GONG TENG *Erycibe expansa*. **Ref:** 4095.

**7302 Erycibenin C**

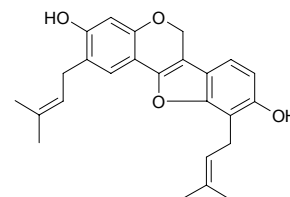
$C_{18}H_{16}O_6$ (328.32). **Pharm:** Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), $100\mu\text{mol/L}$, $\text{InRt} = (10.5 \pm 2.7)\%$, weak, control Silybin, $100\mu\text{mol/L}$, $\text{InRt} = (77.0 \pm 5.5)\%$). **Source:** GUANG BU DING GONG TENG *Erycibe expansa*. **Ref:** 4095.

**7303 Erycordine**

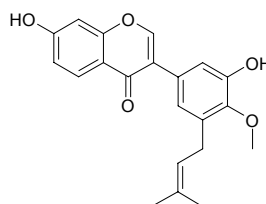
[13428-83-6] $C_{35}H_{54}O_{14}$ (698.81). **Pharm:** Cardiotoxic; increases coronary flow; antihypertensive. **Source:** GUI ZHU TANG JIE *Erysimum cheiranthoides*, HUAN YANG SHEN YE TANG JIE *Erysimum crepidifolium*. **Ref:** 6, 658.

**7304 Erycrystalgallin**

$C_{25}H_{26}O_4$ (390.48). mp 179–180°C. **Pharm:** Antimalarial (antiplasmodial in *in vitro*, *Plasmodium falciparum*, W2 strain, $IC_{50} = (20.1 \pm 3.6)\mu\text{mol/L}$, control Quinine, $IC_{50} = (0.21 \pm 0.01)\mu\text{mol/L}$; D6 strain, $IC_{50} = (19.0 \pm 0.9)\mu\text{mol/L}$, Quinine, $IC_{50} = (0.042 \pm 0.002)\mu\text{mol/L}$). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (root cortex). **Ref:** 5420.

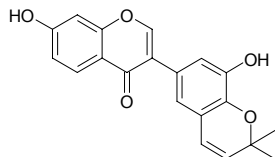
**7305 Erylatissin A**

7,3'-Dihydroxy-4'-methoxy-5'-(γ,γ-dimethylallyl)isoflavone $C_{21}H_{20}O_5$ (352.39). Brown paste. **Pharm:** Antibacterial (*Escherichia coli*, MIA = 5.00μg, control Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.10μg, Chloramphenicol, MIA = 0.0001μg; *Bacillus subtilis*, MIA = 0.10μg, Chloramphenicol, MIA = 0.0001μg); antifungal (*Candida mycoderma*, MIA = 0.02μg, control Miconazole, MIA = 0.0001μg); antioxidant (DPPH scavenger, TLC, MIA = 0.5μg, $IC_{50} = 780\mu\text{g/mL}$; control Quercetin, MIA < 0.05μg, $IC_{50} = 7\mu\text{g/mL}$, Gallic acid, MIA < 0.05μg, $IC_{50} = 4\mu\text{g/mL}$; Ascorbic acid, MIA < 0.10μg, $IC_{50} = 18\mu\text{g/mL}$). **Source:** JI KUAN CI TONG *Erythrina latissima* (stem wood). **Ref:** 5247.

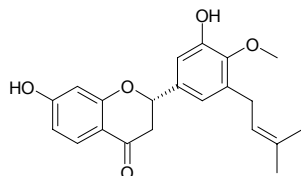


7306 Erylatissin B

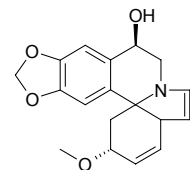
7,3'-Dihydroxy-6",6"-dimethyl-4",5"-dehydropyrano [2",3":4',5']isoflavone C₂₀H₁₆O₅ (336.35). Yellowish paste. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIA = 1.00µg, Chloramphenicol, MIA = 0.0001µg; *Bacillus subtilis*, MIA = 1.00µg, Chloramphenicol, MIA = 0.0001µg); antifungal (*Candida mycoderma*, MIA = 1.00µg, control Miconazole, MIA = 0.0001µg); antioxidant (DPPH scavenger, TLC, MIA = 10µg, IC₅₀ > 1000µg/mL; control Quercetin, MIA < 0.05µg, IC₅₀ = 7µg/mL, Gallic acid, MIA < 0.05µg, IC₅₀ = 4µg/mL; Ascorbic acid, MIA < 0.10µg, IC₅₀ = 18µg/mL). **Source:** JI KUAN CI TONG *Erythrina latissima* (stem wood). **Ref:** 5247.

**7307 Erylatissin C**

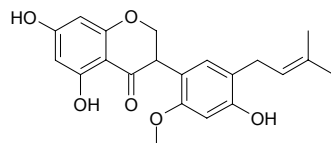
(-)-7,3'-Dihydroxy-4'-methoxy-5'-(γ,γ'-dimethylallyl)flavanone C₂₁H₂₂O₅ (354.41). Yellow solid, mp 56–59°C, [α]_D = -78° (c = 0.025, MeOH). **Pharm:** Antibacterial (*Escherichia coli*, MIA = 0.50µg, control Chloramphenicol, MIA = 0.001µg; *Staphylococcus aureus*, MIA = 0.10µg, Chloramphenicol, MIA = 0.0001µg; *Bacillus subtilis*, MIA = 0.01µg, Chloramphenicol, MIA = 0.0001µg); antifungal (*Candida mycoderma*, MIA = 0.01µg, control Miconazole, MIA = 0.0001µg); antioxidant (DPPH scavenger, TLC, MIA = 0.5µg, IC₅₀ = 710µg/mL; control Quercetin, MIA < 0.05µg, IC₅₀ = 7µg/mL, Gallic acid, MIA < 0.05µg, IC₅₀ = 4µg/mL; Ascorbic acid, MIA < 0.10µg, IC₅₀ = 18µg/mL). **Source:** JI KUAN CI TONG *Erythrina latissima* (stem wood). **Ref:** 5247.

**7308 Eryphrinine**

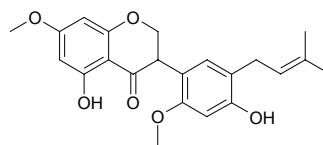
C₁₈H₁₉NO₄ (313.36). **Source:** JI GUAN CI TONG *Erythrina crysragalli* (the compound was isolated from the plant in 1973). **Ref:** 5505.

**7309 Erypoeigin C**

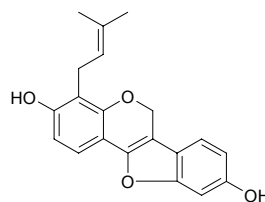
C₂₁H₂₂O₆ (370.41). Colorless oil. **Source:** SHAN DI CI TONG *Erythrina poeppigiana*. **Ref:** 1972.

**7310 Erypoeigin D**

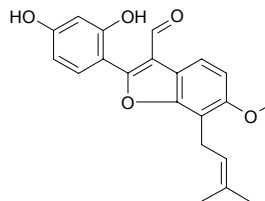
C₂₂H₂₄O₆ (384.43). Colorless oil. **Source:** SHAN DI CI TONG *Erythrina poeppigiana*. **Ref:** 1972.

**7311 Erypoeigin E**

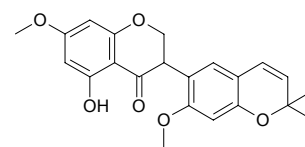
C₂₀H₁₈O₄ (322.36). Yellowish oil. **Source:** SHAN DI CI TONG *Erythrina poeppigiana*. **Ref:** 1972.

**7312 Erypoeigin F**

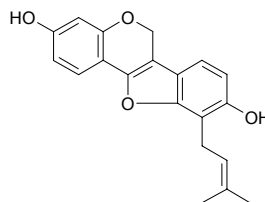
C₂₁H₂₀O₅ (352.39). Amorphous powder. **Pharm:** Antibacterial (13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA), for 13/13 active). **Source:** SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 3400.

**7313 Erypoeigin G**

C₂₂H₂₂O₆ (382.42). Amorphous powder, [α]_D = ±0°. **Pharm:** Antibacterial inactive (13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA), for 13/13 inactive). **Source:** SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 3400.

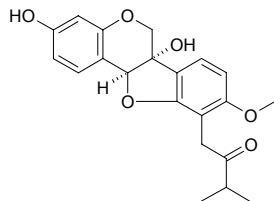
**7314 Erypoeigin H**

C₂₀H₁₈O₄ (326.36). Amorphous powder. **Pharm:** Antibacterial (13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA), for 13/13 active). **Source:** SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 3400.

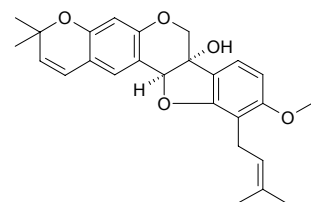


7315 Erypoeigin I

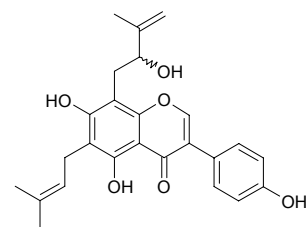
$C_{21}H_{22}O_6$ (370.41). Amorphous powder, $[\alpha]_D = -71^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial inactive (13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA), for 13/13 inactive). **Source:** SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 3400.

**7316 Erypoeigin J**

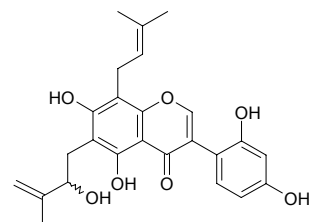
$C_{26}H_{28}O_5$ (420.51). Amorphous powder, $[\alpha]_D = -96^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial inactive (13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA), for 13/13 inactive). **Source:** SHAN DI CI TONG *Erythrina poeppigiana* (root). **Ref:** 3400.

**7317 Erysenegalensein E**

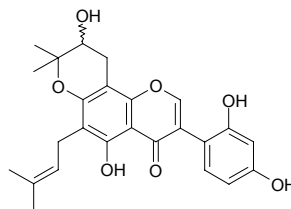
$C_{25}H_{26}O_6$ (422.48). Colorless amorphous, $[\alpha]_D = +4.8^\circ$ ($c = 0.056$, EtOH). **Pharm:** Antifungal (*Trichophyton mentagrophytes*, 500–1000 $\mu\text{g}/\text{mL}$)^[2347], cytotoxic (KB, $EC_{50} = 6.25 \mu\text{g}/\text{mL}$). **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex), PAN YUAN YU TENG *Derris scandens*. **Ref:** 2347, 5220.

**7318 Erysenegalensein N**

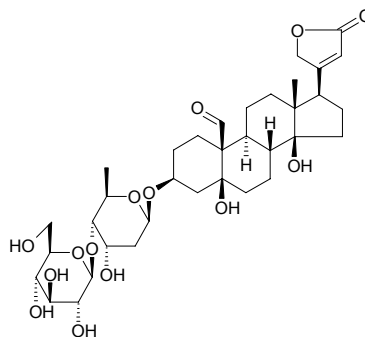
5,7,2',4'-Tetrahydroxy-6-(2''-hydroxy-3''-methylbut-3''-enyl)-8-(γ,γ -dimethylallyl) isoflavone $C_{25}H_{26}O_7$ (438.48). Pale-yellow oil, $[\alpha]_D^{20} = -3.3^\circ$ ($c = 0.8$, MeOH). **Source:** SAI NEI JIA ER CI TONG *Erythrina senegalensis*. **Ref:** 2344.

**7319 Erysenegalensein O**

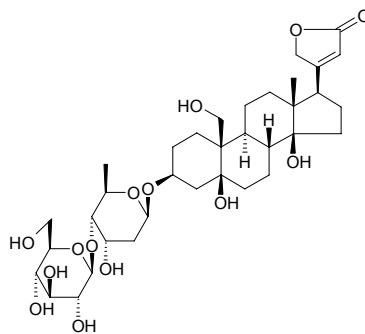
5,2',4'-Trihydroxy-6-(γ,γ -dimethylallyl)-3''-hydroxy-2''-dimethyldihydropyrano[5''',6''';8,7]isoflavone $C_{25}H_{26}O_7$ (438.48). Pale-yellow oil. **Source:** SAI NEI JIA ER CI TONG *Erythrina senegalensis*. **Ref:** 2344.

**7320 Erysimoside**

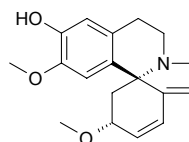
$C_{35}H_{52}O_{14}$ (696.80). mp 170–173°C. **Pharm:** Cardiotonic. **Source:** CHANG SHUO HUANG MA *Corchorus olitorius*, GUI ZHU TANG JIE *Erysimum cheiranthoides*, HUANG MA YE *Corchorus capsularis*, HUANG MA ZI *Corchorus capsularis*, KANG PI DU MAO XUAN HUA *Strophanthus kombe*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], MENG GU CE JIN ZHAN HUA *Adonis mongolica*, TANG JIE *Erysimum diffusum*. **Ref:** 6, 658.

**7321 Erysimosol**

3-O-Digilanidobioside [11006-14-7] $C_{35}H_{54}O_{14}$ (698.81). **Source:** GUI ZHU TANG JIE *Erysimum cheiranthoides*. **Ref:** 6.

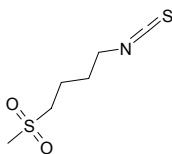
**7322 Eryrodine**

[7290-03-1] $C_{18}H_{21}NO_3$ (299.37). mp 204–205°C. **Source:** QIAO MU CI TONG *Erythrina arborescens*. **Ref:** 6.

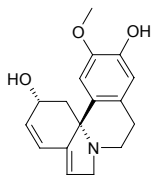


7323 Erysoline

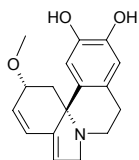
[504-84-7] $C_6H_{11}NO_2S_2$ (193.29). mp 59–60°C. **Pharm:** Antibacterial (gram-positive bacteria, gram-negative bacteria, acid-fast bacteria, EC = 125–500 $\mu\text{g/mL}$); antiprotozoal (*Trichomonas vaginalis* and *Trypanosoma equiperdum*, *in vitro*, EC = 1.0 $\mu\text{g/mL}$, *Castellanella gambiense*, *in vitro*, EC = 0.5–2.5 $\mu\text{g/mL}$); antiviral (*in vitro*); cytotoxic (EAC *in vitro*, 500 $\mu\text{g/mL}$, after 24h completely inhibition). **Source:** A FU HAN TANG JIE *Erysimum perofskianum*, QUN XIN CAI *Cardaria draba*, MAO DU XING CAI *Lepidium draba*. **Ref:** 661.

**7324 Erysonine**

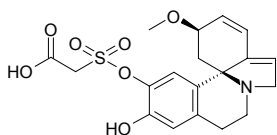
[7290-05-3] $C_{17}H_{19}NO_3$ (285.35). **Pharm:** Neuromuscular blocker. **Source:** JIA LE BI CI TONG *Erythrina caribea*, HEI CI CI TONG *Erythrina melanacantha*. **Ref:** 658.

**7325 Erysoipine**

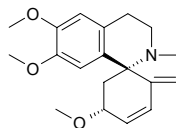
$C_{17}H_{19}NO_3$ (285.35). mp 242–243°C. **Pharm:** Ganglionic blocker (curariform action). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*, CI TONG *Erythrina variegata* [Syn. *Erythrina indica*], FU KE CI TONG *Erythrina folkersii*, QIAO MU CI TONG *Erythrina arborescens*, SHU WEI CAO HUA CI TONG *Erythrina salviiflora*, YING HE CI TONG *Erythrina lithosperma*. **Ref:** 6, 658.

**7326 Erysothiopine**

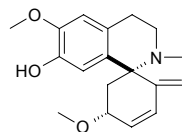
[In DNP] $C_{19}H_{21}NO_7S$ (407.45). Hydrate crystals (solution of ethanol in water), mp 168–169°C, $[\alpha]_D^{25} = +194^\circ$ (ethanol). **Pharm:** Neuromuscular blocker. **Source:** HUI CI TONG *Erythrina glauca*. **Ref:** 658.

**7327 Erysoitrine**

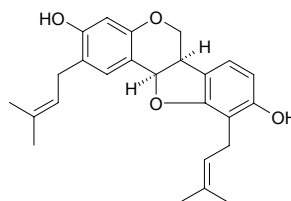
[27740-43-8] $C_{19}H_{23}NO_3$ (313.40). Free alkali: mp 95–97°C (light petroleum ether); hydrochloride: mp 206–208°C (ether–ethanol); bitter acid salt: mp 162–163, $[\alpha]_D^{21} = +142^\circ$ ($c = 0.4$, ethanol). **Pharm:** Antineoplastic; neuromuscular blocker; uterine stimulant. **Source:** GOU QI XIAO BO *Berberis zycium*, SHUAN ZHUANG CI TONG *Erythrina suberosa*. **Ref:** 661.

**7328 Erysovine**

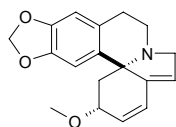
[466-72-8] $C_{18}H_{21}NO_3$ (299.37). mp 178–179°C. **Pharm:** Ganglionic blocker (curariform action). **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*], FU KE CI TONG *Erythrina folkersii*, QIAO MU CI TONG *Erythrina arborescens*, SHU WEI CAO HUA CI TONG *Erythrina salviiflora*. **Ref:** 6, 658.

**7329 Erythrabssin II**

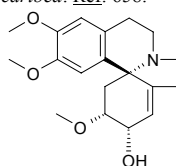
$C_{25}H_{28}O_4$ (392.50). **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, $IC_{50} = (6.5 \pm 0.6) \mu\text{mol/L}$, control Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{mol/L}$; D6 strain, $IC_{50} = (8.1 \pm 1.4) \mu\text{mol/L}$, Quinine, $IC_{50} = (0.042 \pm 0.002) \mu\text{mol/L}$). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (root cortex). **Ref:** 5420.

**7330 Erythraline**

[466-77-3] $C_{18}H_{19}NO_3$ (297.36). mp 106–107°C. **Pharm:** Ganglionic blocker (curariform action). **Source:** HAI TONG PI *Erythrina variegata* var. *orientalis*. **Ref:** 6, 658.

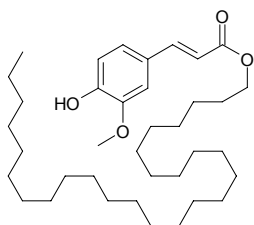
**7331 Erythratidine**

[41431-22-5] $C_{19}H_{25}NO_4$ (331.42). **Pharm:** Neuromuscular blocker. **Source:** HEI CI CI TONG *Erythrina melanacantha*, JIA LE BI CI TONG *Erythrina caribea*. **Ref:** 658.

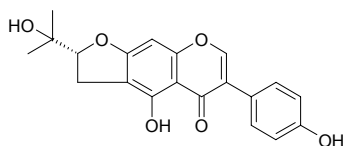


7332 Erythrinassinate B

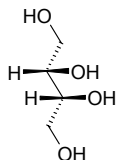
$C_{37}H_{64}O_4$ (572.92). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex). Ref: 5220.

**7333 Erythrinin C**

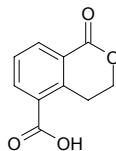
[63807-85-2] $C_{20}H_{18}O_6$ (354.36). Source: *Glycyrrhiza* sp. Ref: 2431.

**7334 Erythritol**

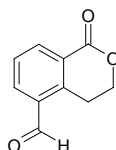
Threitol [149-32-6] $C_4H_{10}O_4$ (122.12). Amorphous powder, $[\alpha]_D^{23} = 0^\circ$, mp *D*(+) 88.5~89.0°C, *L*(-) 88°C, *dl* 72 °C; mp 121.5°C, bp 329~331°C. Pharm: Coronary vasodilator. Source: BAO CHUN HUA *Primula malacoides*, BEI SHA SHEN *Glehnia littoralis* (fruit), SHI LUO ZI *Anethum graveolens* (fruit), YING SU KE *Papaver somniferum*, ZHANG YE BAN XIA *Pinellia pedatisecta*, ZHEN MO *Armillariella mellea*. Ref: 6, 586, 658, 3525, 4177.

**7335 Erythrocentauric acid**

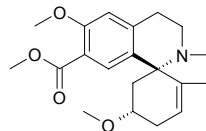
5-Carboxyl-3,4-dihydrogen-1*H*-2-benzopyran-1-one $C_{10}H_8O_4$ (192.17). Tubbiness colorless transparent needles, mp 251~253°C. Source: QIN JIAO *Gentiana macrophylla*. Ref: 4594, 4824.

**7336 Erythrocentaurin**

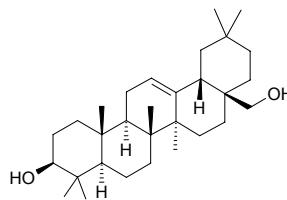
$C_{10}H_8O_3$ (176.17). Colorless needles, mp 145~147°C ($CHCl_3$). Source: QIN JIAO *Gentiana macrophylla*. Ref: 4594, 4824.

**7337 Erythroculine**

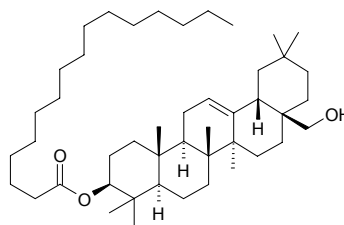
[22150-96-5] $C_{20}H_{25}NO_4$ (343.43). Source: HENG ZHOU WU YAO *Cocculus laurifolius*. Ref: 6.

**7338 Erythrodiol**

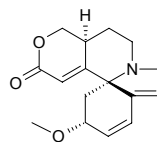
Olean-12-en-3,28-diol $C_{30}H_{50}O_2$ (442.73). mp 215~217°C. Source: BING PIAN *Dryobalanops aromatica*, BING PIAN *Dryobalanops aromatica*, FENG XIANG JI SHENG *Viscum articulatum*, MANG GUO SHU PI *Mangifera indica*. Ref: 2, 6.

**7339 Erythrodiol 3-O-palmitate**

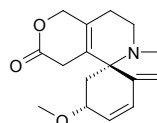
$C_{46}H_{80}O_3$ (681.15). Source: HUANG LONG DAN *Gentiana lutea* (rhizome and root). Ref: 4307.

**7340 α -Erythroidine**

[466-80-8] $C_{16}H_{19}NO_3$ (273.33). Acicular crystals (pentane), mp 58~60°C, $[\alpha]_D^{27} = +136^\circ$ ($c = 0.5$, water), instable in air. Pharm: Neuromuscular blocker. Source: MEI ZHOU CI TONG *Erythrina americana*. Ref: 658.

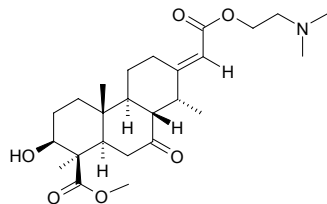
**7341 β -Erythroidine**

[466-81-9] $C_{16}H_{19}NO_3$ (273.33). Crystals (absolute ethanol), mp 99.5~100.0°C, $[\alpha]_D^{25} = +88.8^\circ$. Pharm: Hypnotic; inhibits respiration; antihypertensive; neuromuscular blocker; LD₅₀ (mus, ip) = 29.5mg/kg. Source: MEI ZHOU CI TONG *Erythrina americana*. Ref: 658.

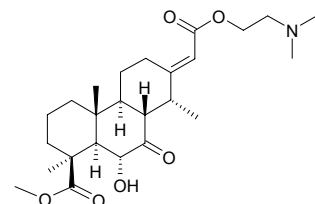


7342 Erythroplamine

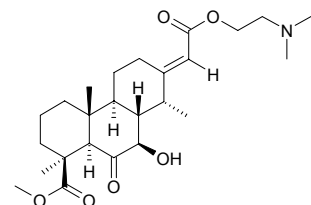
$C_{25}H_{39}NO_6$ (449.59). Crystals (ethanol–petroleum ether), mp 149–157°C, $[\alpha]_D^{20} = -62.5^\circ$ ($c = 0.911$, ethanol). **Pharm:** Cardiotonic. **Source:** FEI ZHOU GE MU *Erythrophleum africanum*, JI NEI YA GE MU *Erythrophleum guineense*, KAO MING GE MU *Erythrophleum couminga*, XIANG YA HAI AN GE MU *Erythrophleum ivorense*, YE XIANG GE MU *Erythrophleum suaveolens*. **Ref:** 658.

**7343 Erythropleguine**

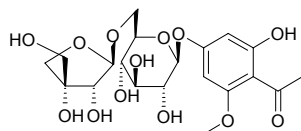
[4829-28-1] $C_{25}H_{39}NO_6$ (449.59). mp 77–78°C, $[\alpha]_D = -38^\circ$ (ethanol). **Pharm:** Cardiotonic; enhances myocardial contractility; slows heart rate. **Source:** JI NEI YA GE MU *Erythrophleum guineense*, KAO MING GE MU *Erythrophleum couminga*, XIANG YA HAI AN GE MU *Erythrophleum ivorense*, YE XIANG GE MU *Erythrophleum suaveolens*. **Ref:** 658.

**7344 Erythrosumamine**

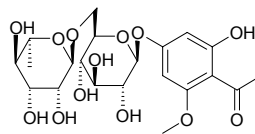
$C_{25}H_{39}NO_6$ (449.59). **Source:** JI NEI YA GE MU *Erythrophleum guineense*. **Ref:** 1521.

**7345 Erythroxyloside A**

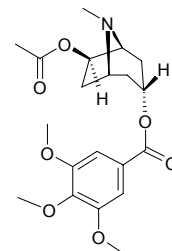
$C_{20}H_{28}O_{13}$ (476.44). Amorphous powder, $[\alpha]_D^{24} = -88.0^\circ$ ($c = 0.97$, MeOH). **Source:** JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts). **Ref:** 4461.

**7346 Erythroxyloside B**

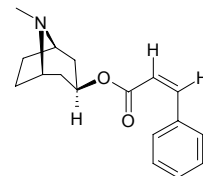
$C_{21}H_{30}O_{13}$ (490.47). Amorphous powder, $[\alpha]_D^{24} = -78.3^\circ$ ($c = 1.07$, MeOH). **Source:** JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts). **Ref:** 4461.

**7347 Erythrozeylanine A**

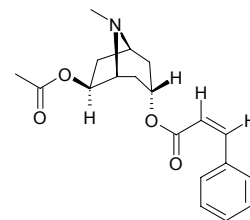
1*R*,3*R*,5*S*,6*R*-6-Acetoxy-3-(3',4',5'-trimethoxybenzoyloxy)tropane $C_{20}H_{27}NO_7$ (393.44). Colorless semisolid, $[\alpha]_D^{25} = -22.1^\circ$ ($c = 0.3$, $CHCl_3$). **Source:** XI LAN GU KE *Erythroxylum zeylanicum* (root). **Ref:** 3919.

**7348 Erythrozeylanine B**

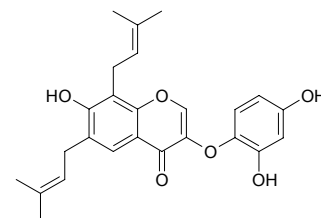
cis-3β-(Cinnamoyloxy)tropane $C_{17}H_{21}NO_2$ (271.36). **Source:** XI LAN GU KE *Erythroxylum zeylanicum* (root). **Ref:** 3919.

**7349 Erythrozeylanine C**

cis-6β-Acetoxy-3α-(cinnamoyloxy)tropane $C_{19}H_{23}NO_4$ (329.40). **Source:** XI LAN GU KE *Erythroxylum zeylanicum* (twig, leaf). **Ref:** 3919.

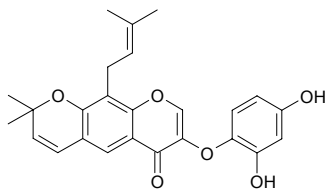
**7350 Eryvarin F**

3-(2,4-Dihydroxyphenoxy)-7-hydroxy-6,8-di(3,3-dimethylallyl)chromen-4-one $C_{25}H_{26}O_6$ (422.48). Amorphous powder. **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*]. **Ref:** 2040.

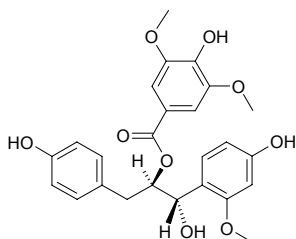


7351 Eryvarin G

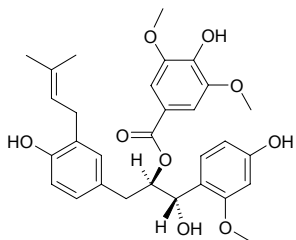
3-(2,4-dihydroxyphenoxy)-8-(3,3-dimethylallyl)-2,2-dimethylpyrano[5,6:6,7]chromen-4-one C₂₅H₂₄O₆ (420.47). Amorphous powder. Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*]. Ref: 2040.

**7352 Eryvarinol A**

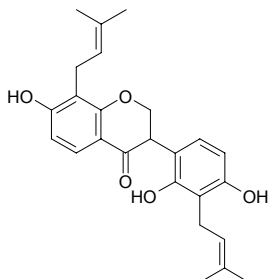
C₂₅H₂₆O₉ (470.48). Amorphous powder, $[\alpha]_D^{23} = -74^\circ$ ($c = 0.1$, MeOH). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (root: yield = 0.0015%). Ref: 4671.

**7353 Eryvarinol B**

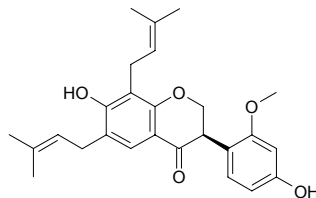
C₃₀H₃₄O₉ (538.6). Amorphous powder, $[\alpha]_D^{23} = -62^\circ$ ($c = 0.1$, MeOH). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (root: yield = 0.0021%). Ref: 4671.

**7354 Eryzerin A**

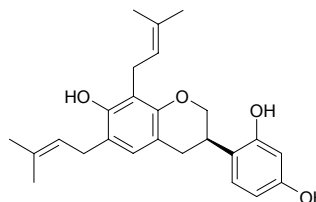
(±)-7,2',4'-Trihydroxy-8,3'-di(γ,γ-dimethylallyl)isoflavanone C₂₅H₂₈O₅ (408.50). Amorphous powder, $[\alpha]_D = \pm 0^\circ$. Pharm: Antibacterial (Methicillin-Resistant *Staphylococcus aureus* (MRSA), MIC range = 12.5–25 μg/mL, MIC₅₀ = 25 μg/mL, MIC₉₀ = 25 μg/mL, proportion of sensitive strains at 12.5 μg/mL = 4/13). Source: *Erythrina zeyheri* (root). Ref: 3451.

**7355 Eryzerin B**

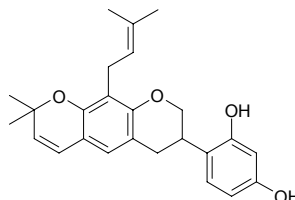
(3*R*)-7,4'-Dihydroxy-2'-methoxy-6,8-di(γ,γ-dimethylallyl)isoflavanone C₂₆H₃₀O₅ (422.53). Amorphous powder, $[\alpha]_D = -41^\circ$ ($c = 0.1$, MeOH). Pharm: Antibacterial (Methicillin-Resistant *Staphylococcus aureus* (MRSA), MIC range = 25–50 μg/mL, MIC₅₀ > 50 μg/mL, MIC₉₀ > 50 μg/mL, proportion of sensitive strains at 12.5 μg/mL = 0/13). Source: *Erythrina zeyheri* (root). Ref: 3451.

**7356 Eryzerin C**

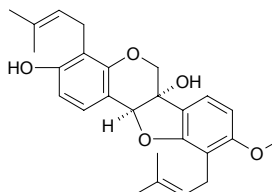
(3*R*)-7,2',4'-Trihydroxy-6,8-di(γ,γ-dimethylallyl)isoflavan C₂₅H₃₀O₄ (394.52). Amorphous powder, $[\alpha]_D = -9^\circ$ ($c = 0.1$, MeOH). Pharm: Antibacterial (Methicillin-Resistant *Staphylococcus aureus* (MRSA), MIC range = 3.13–6.25 μg/mL, MIC₅₀ = 6.25 μg/mL, MIC₉₀ = 6.25 μg/mL, proportion of sensitive strains at 12.5 μg/mL = 13/13). Source: *Erythrina zeyheri* (root). Ref: 3451.

**7357 Eryzerin D**

2',4'-Dihydroxy-8-γ,γ-dimethylallyl-2''-dimethylpyrano-[5,6:6,7]isoflavan C₂₅H₂₈O₄ (392.50). Amorphous powder, $[\alpha]_D = +3^\circ$ ($c = 0.1$, MeOH). Pharm: Antibacterial (Methicillin-Resistant *Staphylococcus aureus* (MRSA), MIC range = 6.25–12.5 μg/mL, MIC₅₀ = 12.5 μg/mL, MIC₉₀ = 12.5 μg/mL, proportion of sensitive strains at 12.5 μg/mL = 13/13). Source: *Erythrina zeyheri* (root). Ref: 3451.

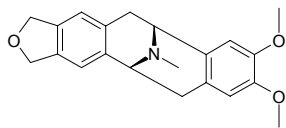
**7358 Eryzerin E**

(6*aS*,11*aS*)-3,6*a*-Dihydroxy-9-methoxy-4,10-di(γ,γ-dimethylallyl)pterocarpan C₂₆H₃₀O₅ (422.53). Amorphous powder, $[\alpha]_D = -87^\circ$ ($c = 0.1$, MeOH). Pharm: Antibacterial (Methicillin-Resistant *Staphylococcus aureus* (MRSA), MIC range = 6.25–25 μg/mL, MIC₅₀ = 6.25 μg/mL, MIC₉₀ = 12.5 μg/mL, proportion of sensitive strains at 12.5 μg/mL = 12/13). Source: *Erythrina zeyheri* (root). Ref: 3451.

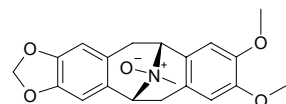


7359 (+)-Eschscholtzidine

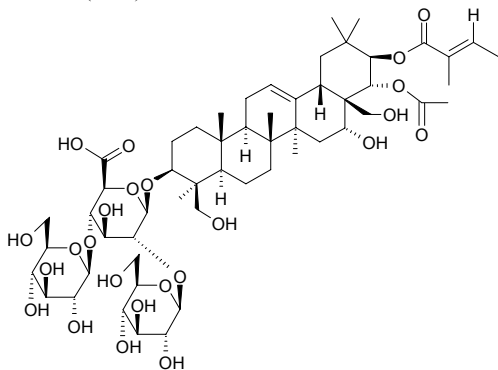
$C_{21}H_{23}NO_3$ (337.42). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**7360 (+)-Eschscholtzidine-N-oxide**

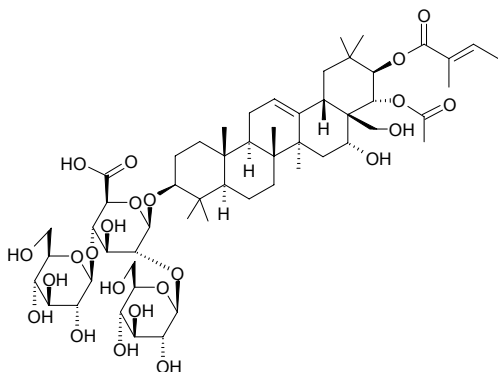
$C_{20}H_{21}NO_5$ (355.39). Colorless needles (MeOH), mp 193~194°C, $[\alpha]_D^{25} = +145.3^\circ$ ($c = 0.1278$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**7361 Escin Ia**

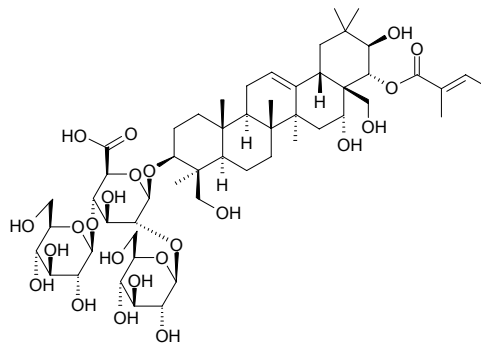
21-*O*-Tigloyl-22-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1→2)][β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{55}H_{86}O_{24}$ (1131.28). Pharm: Anti-inflammatory (mus, assay of Dimethyl benzene-induced inflammation, dose 30mg/kg, InRt = 79.3%, control Dexamethasone, dose 1mg/kg, InRt = 55.6%). Source: QI YE SHU *Aesculus chinensis* (seeds). Ref: 2578.

**7362 Escin IIIa**

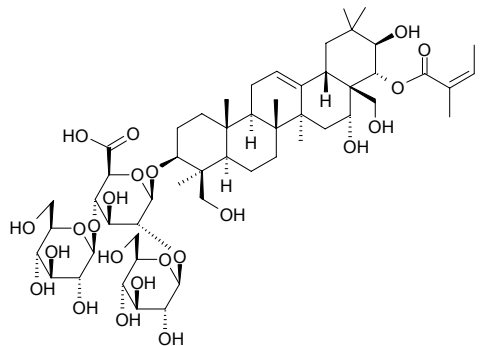
$C_{55}H_{86}O_{23}$ (1115.28). White amorphous powder, $[\alpha]_D^{25} = -53.3^\circ$ ($c = 0.90$, MeOH). Source: QI YE SHU *Aesculus chinensis* (seed). Ref: 3528.

**7363 Escin IVg**

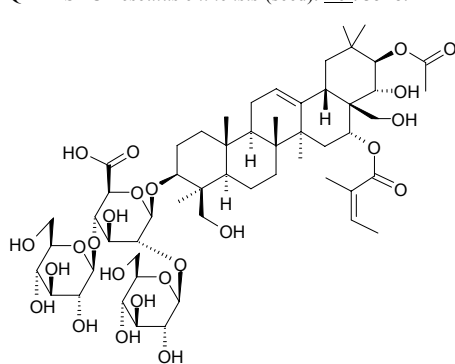
22-Tigloylprotoaescigenin 3-*O*-[β -*D*-glucopyranosyl(1→2)][β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{53}H_{84}O_{23}$ (1089.25). White amorphous powder, $[\alpha]_D^{25} = -25.0^\circ$ ($c = 1.00$, MeOH). Source: QI YE SHU *Aesculus chinensis* (seed). Ref: 3528.

**7364 Escin IVh**

22-Angeloylprotoaescigenin 3-*O*-[β -*D*-glucopyranosyl(1→2)][β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{53}H_{84}O_{23}$ (1089.25). White amorphous powder, $[\alpha]_D^{25} = -60^\circ$ ($c = 1.05$, MeOH). Source: QI YE SHU *Aesculus chinensis* (seed). Ref: 3528.

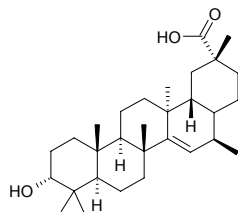
**7365 Escin VIb**

16-Angeloyl-21-acetylprotoaescigenin 3-*O*-[β -*D*-glucopyranosyl(1→2)][β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{55}H_{86}O_{24}$ (1131.28). White amorphous powder, $[\alpha]_D^{25} = -55^\circ$ ($c = 1.00$, MeOH). Source: QI YE SHU *Aesculus chinensis* (seed). Ref: 3528.

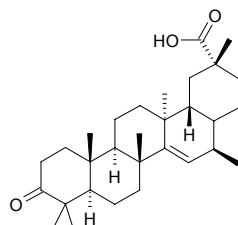


7366 Esculentoic acid A

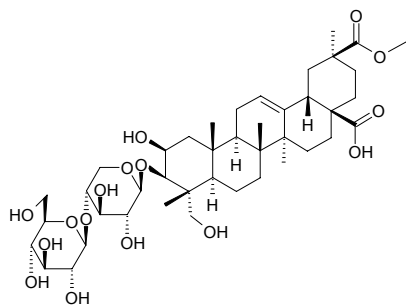
$C_{30}H_{48}O_3$ (456.72). Colorless powder, mp 248~251°C, $[\alpha]_D^{25} = -16.4^\circ$ ($c = 0.64$, $CHCl_3$). **Pharm:** Cytotoxic (A2780 ovarian cancer cell line, $IC_{50} = 6.4\text{mg/mL}$, marginally active). **Source:** MU SHU DI SHANG BU FEN *Manihot esculenta*. **Ref:** 5379.

**7367 Esculentoic acid B**

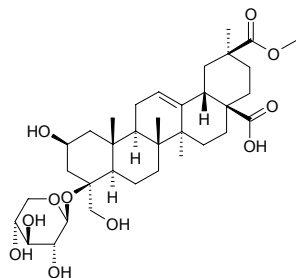
$C_{30}H_{46}O_3$ (454.70). Colorless needles, mp 276~278°C, $[\alpha]_D^{25} = +10.6^\circ$ ($c = 0.48$, $CHCl_3$:MeOH = 1:1). **Pharm:** Cytotoxic (A2780 ovarian cancer cell line, $IC_{50} = 4.8\text{mg/mL}$, marginally active). **Source:** MU SHU DI SHANG BU FEN *Manihot esculenta*. **Ref:** 5379.

**7368 Esculentoside A**

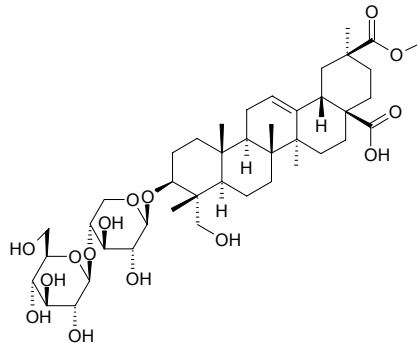
Phytolaccoside E [65497-07-6] $C_{42}H_{66}O_{16}$ (826.98). Powder, mp 257~258°C, $[\alpha]_D^{21} = +51.3^\circ$ ($c = 0.99$, EtOH). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*] (dried root: content = 0.86%^[5523]), SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (dried root: mean content of 11 origins = 0.37%^[5523]). **Ref:** 660, 1521, 1535, 5523.

**7369 Esculentoside B**

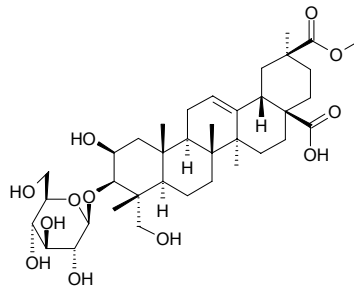
$C_{35}H_{54}O_{11}$ (650.81). **Source:** SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 1535.

**7370 Esculentoside C**

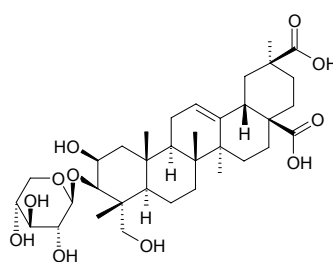
Phytolaccoside D [65931-92-2] $C_{42}H_{66}O_{15}$ (810.99). mp 220~222°C, $[\alpha]_D = +40^\circ$ ($c = 0.3$, MeOH). **Pharm:** Anti-inflammatory. **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 1535, 3106, 3108.

**7371 Esculentoside D**

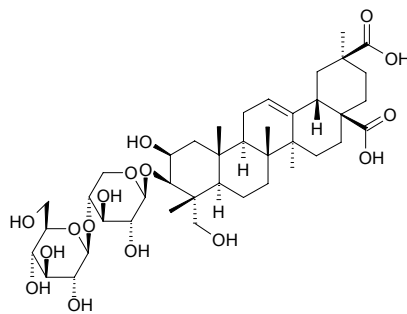
$C_{37}H_{58}O_{12}$ (694.87). **Source:** SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 1535.

**7372 Esculentoside E**

[65949-36-7] $C_{35}H_{54}O_{11}$ (650.81). **Source:** SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 1536.

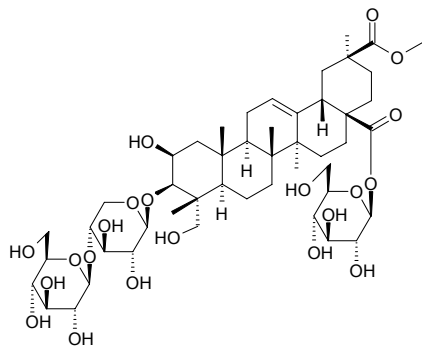
**7373 Esculentoside F**

[95263-31-3] $C_{41}H_{64}O_{16}$ (812.96). **Source:** SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 1536.

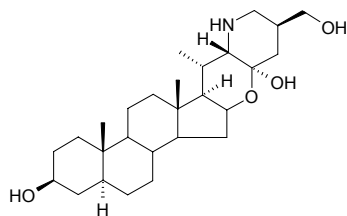


7374 Esculentoside H

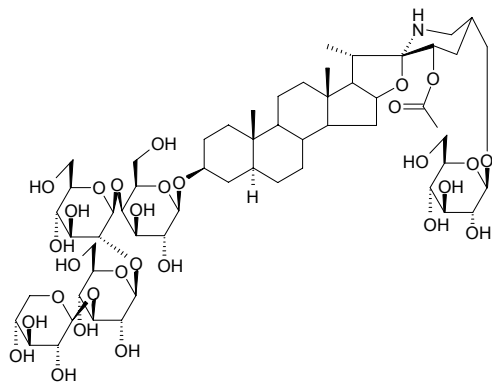
Phytolaccasaponin B [66656-92-6] $C_{48}H_{76}O_{21}$ (989.13). Needles +3H₂O, mp 218~220°C, $[\alpha]_D^{29} = +38.3^\circ$ ($c = 0.93$, EtOH). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. Ref: 1521, 1537.

**7375 Esculeogenin B**

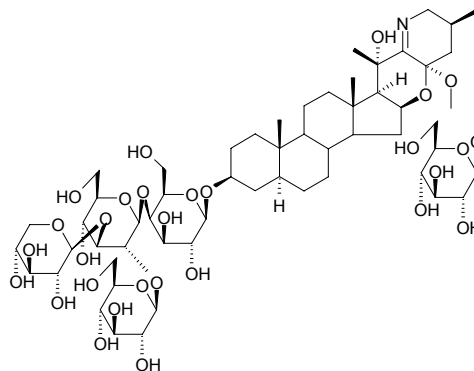
(5 α ,22S,23R,25S)-22,26-Epimino-16 β ,23-epoxy-3 β ,23,27-trihydroxycholestane $C_{27}H_{45}NO_4$ (447.66). Amorphous powder, $[\alpha]_D = -96.2^\circ$ ($c = 0.05$, pyridine). Source: FAN QIE *Lycopersicon esculentum*. Ref: 4484.

**7376 Esculeoside A**

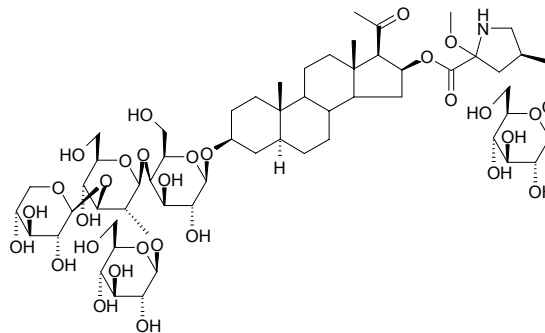
$C_{58}H_{95}NO_{29}$ (1270.39). white powder, $[\alpha]_D = -52.5^\circ$ (MeOH). Pharm: Cytotoxic (MCF7 cells, IC₅₀ = 24.5 μ mol/L, control Tomatine, IC₅₀ = 15 μ mol/L, cytotoxicity of compounds was measured using the WST-8 proliferation reagent, see M. Ishiyama, et al., *Talanta*, 1999, 44, 1299). Source: FAN QIE *Lycopersicon esculentum*. Ref: 4317.

**7377 Esculeoside C**

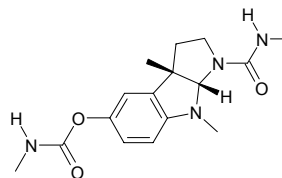
3-O- β -Lycotetraosyl(5S,25S)-22,26-epimino-16 β ,23-epoxy-23 α -methoxy-22(N)-ene-3 β ,20 α ,27-trihydroxycholestane 27-O- β -D-glucopyranoside $C_{57}H_{93}NO_{29}$ (1256.37). Amorphous powder, $[\alpha]_D^{24} = -56.7^\circ$ ($c = 0.9$, pyridine). Source: YING TAO FAN QIE *Lycopersicon esculentum* var. *cerasiforme* (ripe fruit: yield = 0.00009%fw). Ref: 1453.

**7378 Esculeoside D**

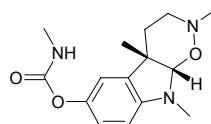
3-O- β -Lycotetraosyl 3 β ,16 β -dihydroxy-5 α -pregn-20-one 16-O-[(4S)-2,5-epimino-2-methoxy-4-(β -D-glucopyranosyloxy) methyl-pentanoic acid]-ester $C_{57}H_{93}NO_{30}$ (1272.37). Amorphous powder, $[\alpha]_D^{24} = -20.7^\circ$ ($c = 1.0$, pyridine). Source: YING TAO FAN QIE *Lycopersicon esculentum* var. *cerasiforme* (ripe fruit: yield = 0.00009%fw). Ref: 1453.

**7379 Eseramine**

[6091-57-2] $C_{16}H_{22}N_4O_3$ (318.38). Pharm: Cholinesterase inhibitor. Source: DU BIAN DOU *Physostigma venenosum*. Ref: 658.

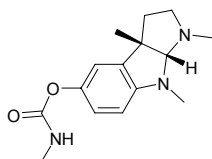
**7380 Eseridine**

Geneserine [25573-43-7] $C_{15}H_{21}N_3O_3$ (291.35). Pharm: Cholinesterase inhibitor. Source: DU BIAN DOU *Physostigma venenosum*. Ref: 658.

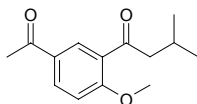


7381 Eserine

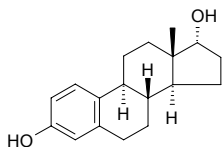
Physostigmine; Cogmine; Physostol [57-47-6] $C_{15}H_{21}N_3O_2$ (275.35). Trapezoidal half-prismatic crystals (ether or benzene), mp 105–106°C, $[\alpha]_D^{17} = -76^\circ$ ($c = 1.3$, chloroform), $[\alpha]_D^{25} = -120^\circ$ (benzene), soluble in ethanol, benzene, chloroform, slightly soluble in water.^[5507] **Pharm:** BChE inhibitor ($IC_{50} = (0.04 \pm 0.0001) \mu\text{mol/L}$ ^[2563], $IC_{50} = (0.857 \pm 0.008) \mu\text{mol/L}$ ^[4217], $IC_{50} = (0.875 \pm 0.008) \mu\text{mol/L}$ ^[5216]); BChE inhibitor (horse serum BChE, $IC_{50} = (0.857 \pm 0.008) \mu\text{mol/L}$ ^[4241]); AChE inhibitor ($IC_{50} = (0.41 \pm 0.001) \mu\text{mol/L}$ ^[4217], $IC_{50} = (0.041 \pm 0.001) \mu\text{mol/L}$ ^[5216]); AChE inhibitor (electric eel AChE, $IC_{50} = (0.041 \pm 0.001) \mu\text{mol/L}$ ^[4241]); antidote (poisoning from anticholinergic); used in treatment of glaucoma (0.2%–0.5%) and myoparalysis^[658]; LD_{50} (mus, ip) = 2.5 mg/kg^[658]. **Source:** DU BIAN DOU *Physostigma venenosum* (in 1864, isolated from the plant for the first time^[5507]; in 1969, isolated from the plant by R.K.Hill, et al.^[5505]). **Ref:** 658, 2563, 4217, 4241, 5216, 5505, 5507.

**7382 Espeleton**

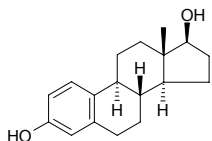
$C_{14}H_{18}O_3$ (234.30). **Pharm:** Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 100 μg/mL, control Miconazole, MIC = 8 μg/mL; *Trichophyton rubrum* ATCC28188, MIC = 100 μg/mL, Miconazole, MIC = 8 μg/mL). **Source:** *Eupatorium aschenbornianum*. **Ref:** 5472.

**7383 α-Estradiol**

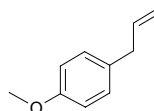
[50-28-2] $C_{18}H_{24}O_2$ (272.39). mp 223°C. **Pharm:** Promotes normal growth of female sexual organs and secondary sex characters. **Source:** LU RONG *Cervus nippon*; *Cervus elaphus*, SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, ZI HE CHE *Homo sapiens*. **Ref:** 2, 658, 5501.

**7384 β-Estradiol**

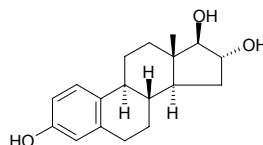
17β-Oestradiol [57-91-0] $C_{18}H_{24}O_2$ (272.39). mp 178°C. **Pharm:** Promotes normal growth of female sexual organs and secondary sex characters. **Source:** BAI FAN DOU *Phaseolus vulgaris*, LU RONG *Cervus nippon*; *Cervus elaphus*, SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, ZI HE CHE *Homo sapiens*. **Ref:** 2, 658, 5501.

**7385 Estragole**

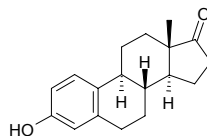
4-Methoxyallylbenzene [140-67-0] $C_{10}H_{12}O$ (148.21). bp 215–216°C, bp 102°C/16 mmHg. **Pharm:** Antibacterial; antispasmodic; leukopoietic; promotes liver regeneration; sedative; LD_{50} (mus, orl) = 4000 mg/kg. **Source:** HUA JIAO *Zanthoxylum bungeanum*, HUI XIANG *Foeniculum vulgare*, QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], SHUI HUI XIANG *Limnophila rugosa*, XI XIN *Asarum sieboldii*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, HUO XIANG *Agastache rugosus*, BA JIAO HUI XIANG *Illicium verum*, OU ZHOU CHI SONG *Pinus sylvestris*, RI BEN XIN YI *Magnolia kobus*. **Ref:** 2, 4, 6, 658, 660, 1521.

**7386 Estriol**

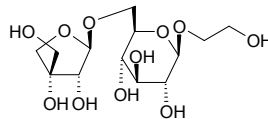
Estratriol [50-27-1] $C_{18}H_{24}O_3$ (288.39). mp 282–283°C. **Pharm:** Leukopoietic (promotes growth of white blood cells); used in treatment of menopathy and female climacteric syndrome. **Source:** ZI HE CHE *Homo sapiens*. **Ref:** 5, 6, 658.

**7387 Estrone**

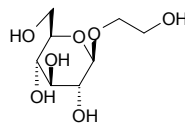
3-Hydroxy-1,3,5(10)-estratrien-17-one [53-16-7] $C_{18}H_{22}O_2$ (270.37). Crystals (acetone), mp (±) 251–254°C, mp (+) 254.5–256.0°C, $[\alpha]_D^{25} = +158$ –168° (dioxane). **Pharm:** Estrogenic activity. **Source:** LU RONG *Cervus nippon*; *Cervus elaphus*, SUAN SHI LIU *Punica granatum*, WU LOU ZI *Phoenix dactylifera*, ZI HE CHE *Homo sapiens*, YUE JI SHI LIU *Punica granatum* cv. *nana*, YE ZI *Cocos nucifera* (fruit; the compound was isolated from the plant by A. Butenandt et al. in 1938)^[5505]. **Ref:** 6, 658, 5501, 5505.

**7388 Ethane-1,2-diol 1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

$C_{13}H_{24}O_{11}$ (356.33). Colorless syrup, $[\alpha]_D^{21} = -47^\circ$ ($c = 0.7$, MeOH). **Source:** ZI RAN QIN *Cuminum cyminum* (fruit). **Ref:** 3395.

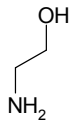
**7389 Ethane-1,2-diol 1-O-β-D-glucopyranoside**

$C_8H_{16}O_7$ (224.21). Colorless syrup, $[\alpha]_D^{21} = -17^\circ$ ($c = 0.6$, MeOH). **Source:** HUI QIN *Pimpinella anisum* (fruit). **Ref:** 3402.

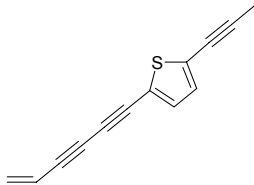


7390 Ethanolamine

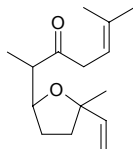
2-Aminoethanol [141-43-5] C_2H_7NO (61.08). bp 171°C. Source: XI JIAO *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*. Ref: 6.

**7391 2-(Ethenylbutadiynyl)-5-(propinyl)-thiophene**

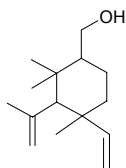
$C_{13}H_8S$ (196.27). Source: MO LI HUA *Jasminum sambac*. Ref: 6.

**7392 2-(5-Ethenyl-5-methyl-2-tetrahydrofuranyl)-6-methyl-5-hepten-3-one**

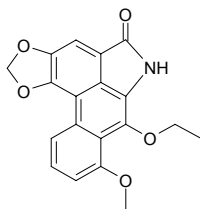
$C_{15}H_{24}O_2$ (236.36). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**7393 4-Ethenyl-2,2,4-trimethyl-3-(1-methylethenyl)-cyclohexane-methanol**

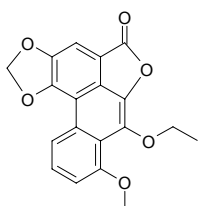
$C_{15}H_{26}O$ (222.37). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**7394 9-Ethoxy-aristolactam**

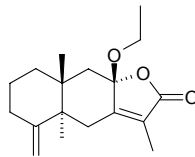
$C_{19}H_{15}NO_5$ (337.34). Source: MIAN MAO MA DOU LING *Aristolochia mollissima*. Ref: 127.

**7395 9-Ethoxy-aristolactone**

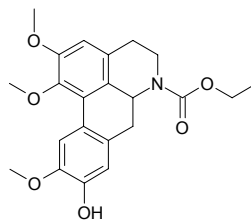
9-Ethoxy-aristololide $C_{19}H_{14}O_6$ (338.32). Source: MIAN MAO MA DOU LING *Aristolochia mollissima*. Ref: 127.

**7396 8β-Ethoxy atractylenolide III**

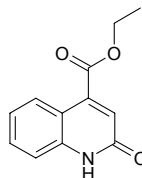
$C_{18}H_{26}O_3$ (290.41). Source: BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*]. Ref: 2.

**7397 N-Ethoxycarbonyllaurotetanine**

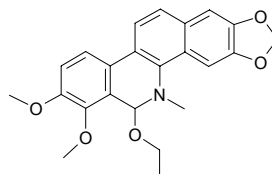
$C_{22}H_{25}NO_6$ (399.45). Yellowish powder. Source: XIA YE SHAN HU JIAO *Lindera angustifolia* (root). Ref: 4875.

**7398 4-Ethoxycarbonyl-2-quinolinone**

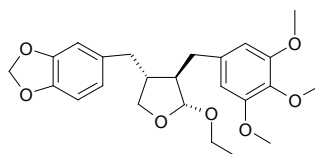
[5466-27-3] $C_{12}H_{11}NO_3$ (217.23). Colorless acicular crystals, mp 208–209°C. Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 2, 156.

**7399 Ethoxychelerythrine**

$C_{23}H_{23}NO_5$ (393.44). White lamellar crystals (ammonia absolute ethanol), mp 207–208°C; Pharm: Cytotoxic (Ehrlich ascites carcinoma cells)^[5369]; antineoplastic (cervical carcinoma, thyroid carcinoma); antibacterial; anti-inflammatory (used in treatment of cervicitis). Source: BO LUO HUI *Macleaya cordata*. Ref: 658, 5369.

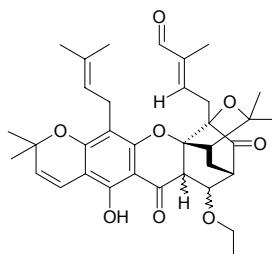
**7400 Ethoxyclusin**

$C_{24}H_{30}O_7$ (430.50). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC_{50} = 0.44 μ mol/L; CYP2D6, IC_{50} = 87.9 μ mol/L; control Ketoconazole, CYP3A4, IC_{50} = 0.72 μ mol/L; control Quinidine, CYP2D6, IC_{50} = 0.082 μ mol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00005%dw). Ref: 4797.

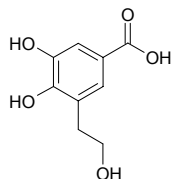


7401 Ethoxydihydroisomoreollin

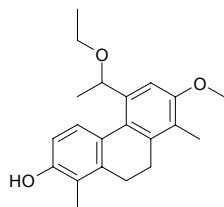
$C_{35}H_{42}O_8$ (590.72). mp 143°C. Source: TENG HUANG *Garcinia morella*. Ref: 6.

**7402 3-Ethoxy-4,5-dihydroxy-benzoic acid**

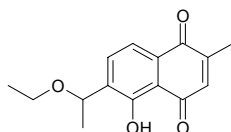
$C_9H_{10}O_5$ (198.18). White powder, mp > 300°C. Source: AN MO LE *Phyllanthus emblica*. Ref: 2434.

**7403 5-(1-Ethoxy-ethyl)-2-hydroxy-7-methoxy-1,8-dimethyl-9,10-dihydrophenanthrene**

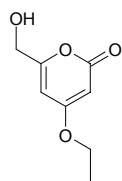
$C_{21}H_{26}O_3$ (326.44). Source: JIAN DENG XIN CAO *Juncus acutus*. Ref: 1965.

**7404 6-(1-Ethoxyethyl)plumbagin**

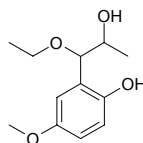
$C_{15}H_{16}O_4$ (260.29). Orange needles (hexane), mp 73°C, $[\alpha]_D^{30} = -0.06^\circ$ ($c = 0.36$, $CHCl_3$). Pharm: Ichthyotoxin (MLC = 0.9mg/L, control Juglone, MLC = 0.2mg/L). Source: HAI SHI *Diospyros maritima* (fruit). Ref: 4185.

**7405 4-Ethoxy-6-hydroxymethyl- α -pyrone**

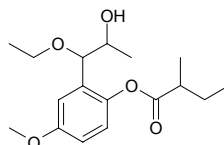
$C_8H_{10}O_4$ (170.17). White needles, mp 94.5~96.8°C. Pharm: DPPH scavenger ($SC_{50} > 100\mu\text{mol/L}$)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC_{50} for Formazan formation activity $> 100\mu\text{mol/L}$)^[4247]. Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem; yield = 0.00013%)^[4247]. Ref: 2468, 4247.

**7406 2-(1-Ethoxy-2-hydroxy)propyl-4-methoxyphenol**

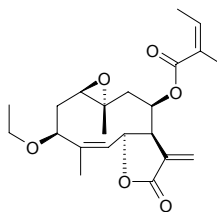
$C_{12}H_{18}O_4$ (226.27). Colorless liquid. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 371.

**7407 2-(1-Ethoxy-2-hydroxy)propyl-4-methoxyphenol-2-methyl-butyrate**

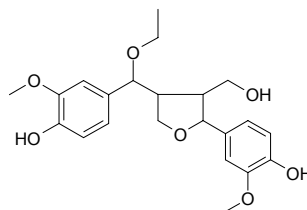
$C_{17}H_{26}O_5$ (310.39). Colorless liquid. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 371.

**7408 3 β -Ethoxy-leptocarpin**

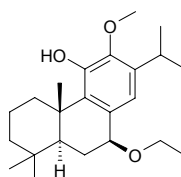
$C_{22}H_{30}O_6$ (390.48). Source: *Viguiera puruana* (aerial parts). Ref: 5090.

**7409 4-[1-Ethoxyl-1-(4'-hydroxy-3'-methoxy)benzyl]methyl-2-(4-hydroxy-3-methoxy)benzyl-3-hydroxymethyl-tetrahydro-furan**

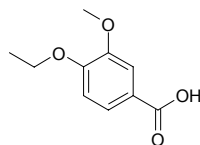
$C_{22}H_{28}O_7$ (404.46). White powder, mp 114~116°C. Source: CAO YE BAI JIANG *Patrinia scabra*. Ref: 2467.

**7410 7 β -Ethoxy-12-methoxy-8,11,13-abietatrien-11-ol**

$C_{23}H_{36}O_3$ (360.54). Source: DU SONG SHI *Juniperus rigida*. Ref: 6.

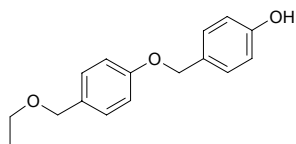
**7411 4-Ethoxy-3-methoxybenzoic acid**

$C_{10}H_{12}O_4$ (196.20). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

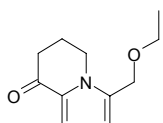


7412 4-Ethoxymethylphenyl-4'-hydroxybenzylether

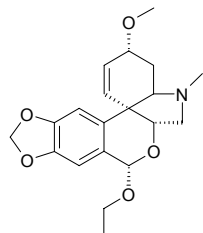
$C_{16}H_{18}O_3$ (258.32). Source: TIAN MA *Gastrodia elata*. Ref: 2.

**7413 3-Ethoxymethyl-5,6,7,8-tetrahydro-8-indolizinone**

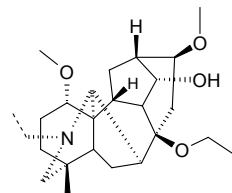
$C_{11}H_{15}NO_2$ (193.25). Pharm: Antifungal (*Penicillium avellaneum* UC-4376, MIA = 250.0 μ g/disk, control Amphotericin B, MIA = 0.08 μ g/disk); antibacterial (*Staphylococcus aureus*, MIA = 400.0 μ g/disk, control Rifampicin, MIA = 1.0 μ g/disk; *Mycobacterium tuberculosis*, MIA = 300.0 μ g/disk, Rifampicin, MIA = 1.0 μ g/disk; *Streptococcus pneumoniae*, MIA = 300.0 μ g/disk, Rifampicin, MIA = 1.0 μ g/disk). Source: DIAN HUANG JING *Polygonatum kingianum* (dried rhizome). Ref: 5484.

**7414 8 α -Ethoxyprocridelline**

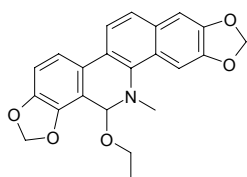
$C_{20}H_{25}NO_5$ (359.43). Amorphous, $[\alpha]_D^{28} = +116.6^\circ$ ($c = 0.06$, $CHCl_3$). Pharm: AChE inhibitor ($IC_{50} = (1145 \pm 87) \mu mol/L$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu mol/L$)^[4952]. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. Ref: 2369, 4952.

**7415 8-Ethoxysachaonitine**

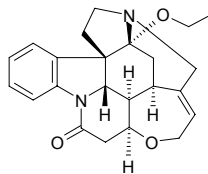
$C_{23}H_{41}NO_4$ (419.61). Amorphous solid, $[\alpha]_D^{25} = -17.6^\circ$ ($c = 0.08$, $CHCl_3$). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

**7416 Ethoxysanguinarine**

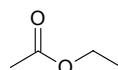
$C_{22}H_{19}NO_5$ (377.40). White lamellar crystals (ammonia absolute ethanol), mp 210–211°C. Pharm: Antibacterial; antineoplastic (cervical carcinoma, thyroid carcinoma); anti-inflammatory (used in treatment of cervicitis). Source: BO LUO HUI *Macleaya cordata*. Ref: 658.

**7417 16-Ethoxystrychnine**

$C_{23}H_{26}N_2O_3$ (378.48). mp 224–225°C. Source: LV SONG GUO *Strychnos ignatii*. Ref: 6.

**7418 Ethyl acetate**

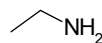
Ethyl ethanoate [141-78-6] $C_4H_8O_2$ (88.11). bp 77.1°C. Source: JIU LIQUOR, SHENG JIANG *Zingiber officinale*. Ref: 2.

**7419 Ethyl aldehyde**

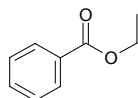
Acetaldehyde [75-07-0] C_2H_4O (44.05). Source: HAI JIU CAI *Triglochin maritimum*, NIU BANG GEN *Arctium lappa*. Ref: 6.

**7420 Ethylamine**

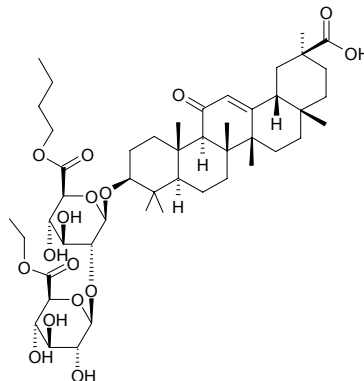
Aminoethane [75-04-7] C_2H_7N (45.08). bp 16.6°C. Source: LING MAO XIANG *Viverra zibetha*. Ref: 6.

**7421 Ethyl benzoate**

Ethyl benzenecarboxylate [93-89-0] $C_9H_{10}O_2$ (150.18). bp 212.9°C. Source: XUAN CAO GEN *Hemerocallis fulva*. Ref: 6.

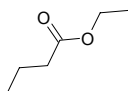
**7422 Ethyl-n-butyl-uralsaponin A esters**

3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-O- β -D-(n-butyl-glucuronopyranosyl ester)-(1 \rightarrow 2)- β -D-(ethyl-glucuronopyranosyl ester) $C_{48}H_{74}O_{16}$ (907.12). Colorless powder, mp 178°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2148.

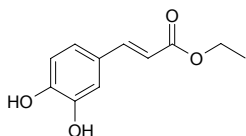


7423 Ethyl butyrate

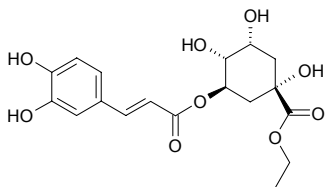
Ethyl butanoate [105-54-4] $C_6H_{12}O_2$ (116.16). bp 119.9°C. Source: JIU Liquor. Ref: 6.

**7424 Ethyl caffeate**

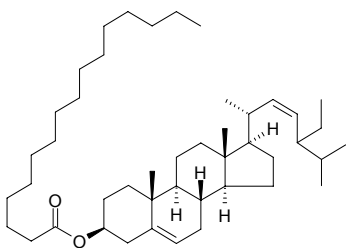
$C_{11}H_{12}O_4$ (208.22). Colorless acicular crystals, mp 138~140°C (acetone). Source: JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*], NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: 0.00014%dw)^[4752]. Ref: 663, 4752.

**7425 Ethyl chlorogenate**

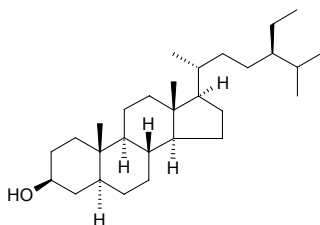
$C_{18}H_{22}O_9$ (382.37). Cream white acicular crystals (acetone), mp 106~110°C. Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00073%dw)^[4723], XI NAN REN DONG *Lonicera bournei*. Ref: 439, 4723.

**7426 24-Ethylcholesta-5,22-dien-3β-ol palmitic acid ester**

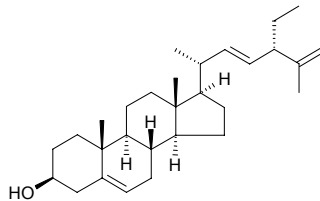
Stigmasteryl palmitate $C_{45}H_{78}O_2$ (651.12). Colorless columnar crystals (CH_3OH), mp 193~194°C. Source: WU WEN ZI BEI TAI *Plagiochasma intermedium*, CHE QIAN *Plantago asiatica*, HUI XIANG GEN *Foeniculum vulgare*. Ref: 6, 857.

**7427 24α-Ethyl-5α-cholestan-3β-ol**

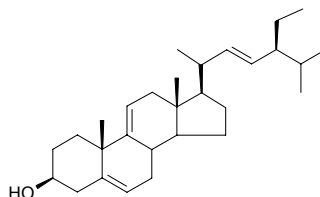
[83-45-4] $C_{29}H_{52}O$ (416.74). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**7428 (24S)-Ethylcholesta-5,22,25-trien-3β-ol**

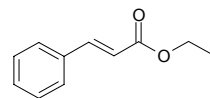
$C_{29}H_{46}O$ (410.69). mp 152~153°C. Source: CHOU MO LI *Clerodendron fragrans*, SHUI HU MAN *Clerodendron inerme*. Ref: 6.

**7429 24β-Ethylcholesta-5,9(11),22-trien-3β-ol**

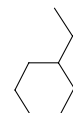
$C_{29}H_{46}O$ (410.69). Crystalline solid, mp 158~160°C, $[\alpha]_D = -47^\circ$ ($CHCl_3$). Source: KU LANG SHU *Clerodendrum inerme*. Ref: 3382.

**7430 Ethylcinnamate**

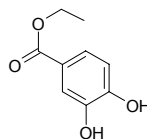
trans-Ethyl cinnamate; Ethyl *trans*-3-phenylpropenoate [103-36-6] $C_{11}H_{12}O_2$ (176.22). bp (*cis*) 125°C/12mmHg. (*trans*) 271°C. Source: ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (bark: content = 0.042%)^[5508], SHAN NAI *Kaempferia galanga*. Ref: 6, 5508.

**7431 Ethylcyclohexane**

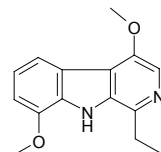
[1678-91-7] C_8H_{16} (112.22). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**7432 Ethyl 3,4-dihydroxybenzoate**

$C_9H_{10}O_4$ (182.18). Pharm: DPPH scavenger ($SC_{50} = 4.9\mu mol/L$)^[4247], antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC_{50} for Formazan formation activity = $11\mu mol/L$). Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00014%). Ref: 4247.

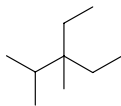
**7433 1-Ethyl-4,8-dimethoxy-β-carboline**

$C_{15}H_{16}N_2O_2$ (256.31). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

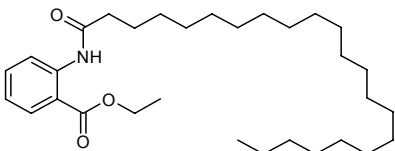


7434 3-Ethyl-2,3-dimethyl-pentane

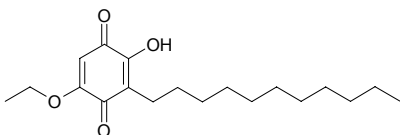
C_9H_{20} (128.26). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**7435 Ethyl *N*-docosanoylanthranilate****7436**

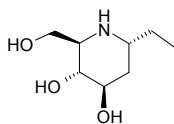
[209523-04-6] $C_{31}H_{53}NO_3$ (487.77). Source: XI ZANG QIN JIAO *Gentiana tibetica*. Ref: 702.

**7436 5-*O*-Ethylembelin**

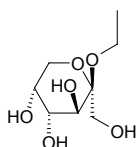
$C_{19}H_{30}O_4$ (322.45). Orange crystals, mp 59–60°C. Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} = 2.5\mu\text{g/mL}$; Bel7402, $IC_{50} = 2.7\mu\text{g/mL}$; HeLa, $IC_{50} = 3.9\mu\text{g/mL}$; U937, $IC_{50} = 1.3\mu\text{g/mL}$; control Colchicine, HL-60, $IC_{50} = 1.6\mu\text{g/mL}$; Bel7402, $IC_{50} = 0.4\mu\text{g/mL}$; HeLa, $IC_{50} = 0.1\mu\text{g/mL}$; U937, $IC_{50} = 0.1\mu\text{g/mL}$)^[4746]. Source: LA ZHU GUO *Aegiceras corniculatum* (stem and twig; yield = 0.00050%). Ref: 4746.

**7437 α -1-*C*-Ethyl-fagomine**

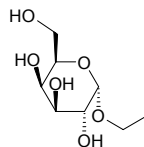
$C_8H_{17}NO_3$ (175.23). $[\alpha]_D^{25} = +45.7^\circ$ ($c = 0.71$, H_2O). Pharm: Enzymes inhibitor (α -glucosidase: rice, $IC_{50} = 490\mu\text{mol/L}$, control DMDP, $IC_{50} = 300\mu\text{mol/L}$; yeast, $IC_{50} > 1000\mu\text{mol/L}$, DMDP, $IC_{50} = 3.6\mu\text{mol/L}$; rat intestinal maltase, $IC_{50} > 1000\mu\text{mol/L}$, DMDP, $IC_{50} = 290\mu\text{mol/L}$; β -glucosidase, almond, $IC_{50} > 1000\mu\text{mol/L}$, DMDP, $IC_{50} = 13\mu\text{mol/L}$; β -galactosidase, bovine liver, $IC_{50} = 29\mu\text{mol/L}$, DMDP, $IC_{50} = 2.2\mu\text{mol/L}$; trehalase, porcine kidney, $IC_{50} > 1000\mu\text{mol/L}$, DMDP, $IC_{50} = 200\mu\text{mol/L}$; amyloglucosidase, *Aspergillus niger*, $IC_{50} > 1000\mu\text{mol/L}$, DMDP, $IC_{50} = 19\mu\text{mol/L}$). Source: RI BEN SAN YE SHA SEN *Adenophora triphylla* var. *japonica* (fresh whole herbs). Ref: 3915.

**7438 Ethyl- α -*D*-fructoside**

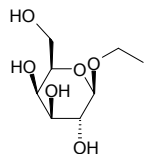
$C_8H_{16}O_6$ (208.21). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

**7439 1-Ethyl- α -*D*-galactoside**

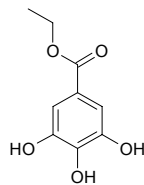
Eleutheroside C $C_8H_{16}O_6$ (208.21). mp 142°C. Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], CI WU JIA PI *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 2, 6.

**7440 1-Ethyl- β -*D*-galactoside**

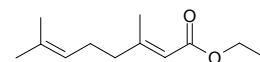
$C_8H_{16}O_6$ (208.21). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**7441 Ethyl gallate**

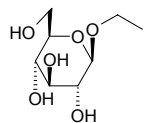
Gallic acid ethyl ester [831-61-8] $C_9H_{10}O_5$ (198.18). White rhombic crystals (chloroform–methanol), mp 155–158°C. Pharm: Antibacterial (*Bacillus dysenteriae*); antifibrotic; platelet aggregation inhibitor (*in vitro*); inhibits OH-free radicals damaging AT-III (Antithrombase-III) (0.6 mmol/L, InRt = 48.5%); collagenase inhibitor (hmn *in vitro*, $IC_{50} = 2\mu\text{g/mL}$); analgesic. Source: A LA BO JIN HE HUAN *Acacia arabica*, CHA TIAO QI *Acer ginnala*, DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*], HE ZI *Terminalia chebula*, LI SHU PI *Castanea mollissima*, MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*], SHE PU TAO *Ampelopsis brevipedunculata*, SHENG DI HONG JING TIAN *Rhodiola sacra*, WAN SHOU JU *Tagetes erecta*, XI XI LI QI SHU *Rhus coriaria*. Ref: 552, 660, 900.

**7442 Ethyl geranate**

[13058-12-3] $C_{12}H_{20}O_2$ (196.29). bp 110–120°C. Source: YUN XIANG CAO *Cymbopogon distans*. Ref: 6.

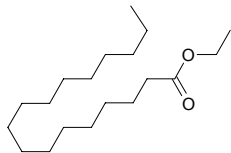
**7443 Ethyl β -*D*-glucopyranoside**

$C_8H_{16}O_6$ (208.21). Colorless syrup, $[\alpha]_D^{25} = -26^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit), SHI LUO ZI *Anethum graveolens* (fruit). Ref: 3525, 4177.

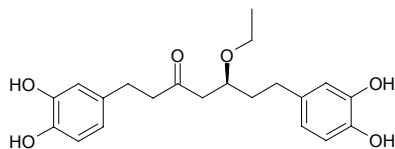


7444 Ethyl heptadecanoate

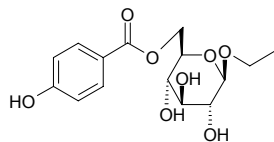
Ethyl margarate [14010-23-2] C₁₉H₃₈O₂ (298.51). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**7445 5-O-Ethyl-hirsutanonol**

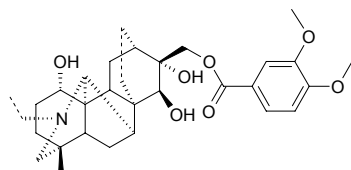
C₂₁H₂₆O₆ (374.44). Pharm: Antioxidant (superoxide radical scavenger, IC₅₀ = 2.9 μmol/L; DPPH scavenger, IC₅₀ = 4.3 μmol/L). Source: CHI YANG *Alnus japonica* (leaf). Ref: 4535.

**7446 Ethyl (6-O-p-hydroxybenzoyl)-β-D-glucopyranoside**

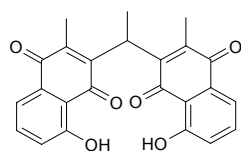
C₁₅H₂₀O₈ (328.32). Source: ZI YE *Catalpa ovata* (fallen leaf). Ref: 4290.

**7447 N-Ethyl-1α-hydroxy-17-veratrolydictizine**

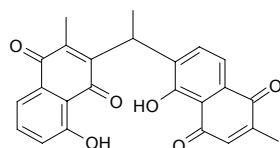
C₃₁H₄₃NO₇ (541.69). Amorphous solid, [α]_D²⁵ = +30.0° (c = 0.11, CHCl₃). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

**7448 Ethylidene-3,3'-biplumbagin**

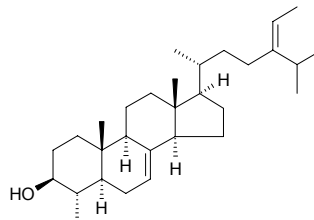
C₂₄H₁₈O₆ (402.41). Orange-red plates (hexane-C₆H₆), mp 200~201°C. Pharm: Ichthyotoxin (MLC > 10mg/L, control Juglone, MLC = 0.2mg/L). Source: HAI SHI *Diospyros maritima* (fruit). Ref: 4185.

**7449 Ethylidene-3,6'-biplumbagin**

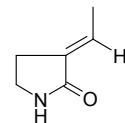
C₂₄H₁₈O₆ (402.41). Orange-red plates (hexane-C₆H₆), mp 185~186°C, [α]_D²⁸ = -1.50° (c = 1.28, CHCl₃). Pharm: Ichthyotoxin (MLC > 10mg/L, control Juglone, MLC = 0.2mg/L). Source: HAI SHI *Diospyros maritima* (fruit). Ref: 4185.

**7450 24-Ethylidene lophenol**

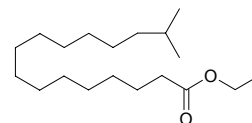
[474-40-8] C₃₀H₅₀O (426.73). mp 162~164°C. Source: GAN ZHE *Saccharum sinensis*. Ref: 6.

**7451 trans-3-Ethylidene-2-pyrrolidinone**

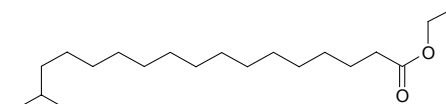
Corydalactam [930-94-9] C₆H₉NO (111.14). mp 172~174°C. Source: JU HUA HUANG LIAN *Corydalis pallida*. Ref: 6.

**7452 Ethylisoheptadecanoate**

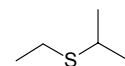
C₁₉H₃₈O₂ (298.51). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**7453 Ethylisooctadecanoate**

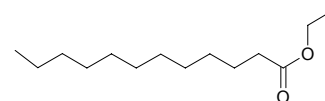
C₂₀H₄₀O₂ (312.54). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**7454 Ethylisopropyl sulfide**

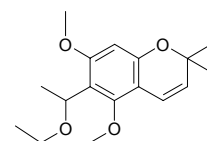
2-Methyl-3-thiapentane [5145-99-3] C₅H₁₂S (104.22). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**7455 Ethyllaurate**

Ethyl dodecanoate [106-33-2] C₁₄H₂₈O₂ (228.38). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

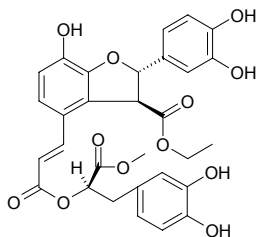
**7456 Ethylleptol B**

C₁₇H₂₄O₄ (292.38). Yellowish oleaginous substances, [α]_D¹⁰ = +3.26° (c = 0.307, Me₂CO). Source: SAN CHA KU *Evodia lepta* [Syn. *Ilex lepta*]. Ref: 393.

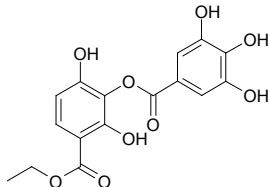


7457 Ethyl lithospermate

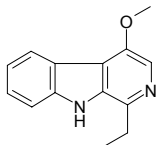
$C_{30}H_{28}O_{12}$ (580.55). Brown yellow gum, $[\alpha]_D^{23} = +65.6^\circ$ ($c = 0.25$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 0.1028$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mol/L; superoxide radical inhibitor, inactive, control Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, inactive, control Propyl gallate, $IC_{50} = 0.064$ mmol/L). **Source:** MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindelofia stylosa* (aerial parts). **Ref:** 4533.

**7458 Ethyl-m-digallate**

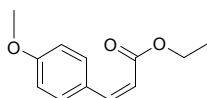
$C_{16}H_{14}O_9$ (350.28). Colorless colloid. **Source:** LUAN SHU *Koeleruteria paniculata*. **Ref:** 677.

**7459 1-Ethyl-4-methoxy-β-carboline**

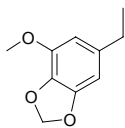
$C_{14}H_{14}N_2O$ (226.28). **Source:** KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 12.

**7460 Ethyl p-methoxy-cis-cinnamate**

$C_{12}H_{14}O_3$ (206.24). **Pharm:** Anti-cancer-promoted activity ($IC_{50} = 5.5$ μmol/L). **Source:** SHAN NAI *Kaempferia galanga*. **Ref:** 2252.

**7461 5-Ethyl-1-methoxy-2,3-methylenedioxybenzene**

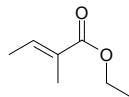
$C_{10}H_{12}O_3$ (180.21). **Source:** *Plagiochila rutilans*. **Ref:** 5144.

**7462 1-Ethyl-2-methylbenzene**

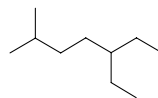
[611-14-3] C_9H_{12} (120.20). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**7463 Ethyl-2-methylbut-2-enoate**

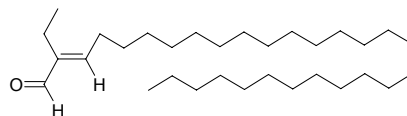
[5837-78-5] $C_7H_{12}O_2$ (128.17). **Pharm:** Flavorant. **Source:** WEN PO *Cydonia oblonga*. **Ref:** 658.

**7464 5-Ethyl-2-methylheptane**

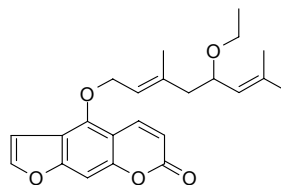
$C_{10}H_{22}$ (142.29). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**7465 (2E)-2-Ethyl-2-nonacosenal**

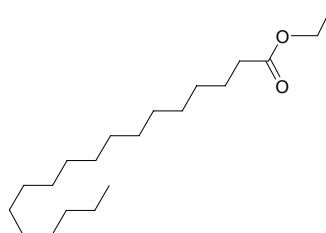
$C_{31}H_{60}O$ (448.82). White crystals, mp 65~66°C. **Source:** JI DAN SHEN *Codonopsis convolvulacea*. **Ref:** 779.

**7466 Ethylnotopterol**

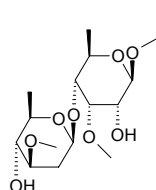
5-(2E,5E)-3,7-Dimethyl-7-[(1-ethoxy)ethoxy-2,5-octadienyloxy] psoralen $C_{23}H_{26}O_5$ (328.26). Colorless ropy substance. **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 325.

**7467 Ethyloctadecanoate**

Ethyl stearate [111-61-5] $C_{20}H_{40}O_2$ (312.54). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

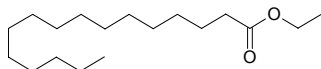
**7468 Ethyl O-β-D-oleandropyranosyl-(1→4)-O-3-O-methyl-6-deoxy-β-D-allopyranoside**

$C_{16}H_{30}O_8$ (350.41). **Source:** ROU LEI NIU NAI CAI *Marsdenia roylei*. **Ref:** 1875.

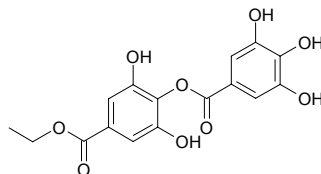


7469 Ethylpalmitate

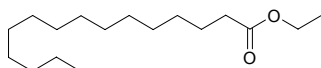
Ethyl hexadecanoate [628-97-7] $C_{18}H_{36}O_2$ (284.49). mp (α) 24°C, (β) 19.3°C. Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG SHEN *Codonopsis pilosula*, JIN YIN HUA *Lonicera japonica*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 6, 638.

**7470 Ethyl-p-digallate**

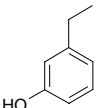
$C_{16}H_{14}O_9$ (350.28). Colorless colloid. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 677.

**7471 Ethylpentadecanoate**

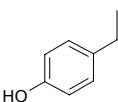
[41114-00-5] $C_{17}H_{34}O_2$ (270.46). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**7472 m-Ethylphenol**

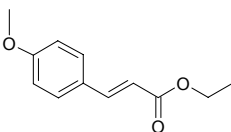
$C_8H_{10}O$ (122.17). Source: DANG GUI *Angelica sinensis*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 660.

**7473 p-Ethylphenol**

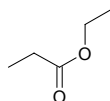
$C_8H_{10}O$ (122.17). Source: DANG GUI *Angelica sinensis*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 660.

**7474 Ethyl-p-methoxycinnamate**

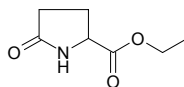
p-Methoxycinnamic acid ethyl ether [24393-56-4] $C_{12}H_{14}O_3$ (206.24). Pharm: Cytotoxic (HeLa). Source: SHAN NAI *Kaempferia galanga*, TU LIANG JIANG *Hedychium spicatum*. Ref: 6, 658.

**7475 Ethylpropionate**

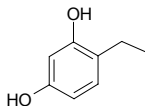
[105-37-3] $C_5H_{10}O_2$ (102.13). Source: SHENG JIANG *Zingiber officinale*, CHUAN XU DUAN *Dipsacus asperoides*. Ref: 2, 660.

**7476 Ethyl pyroglutamate**

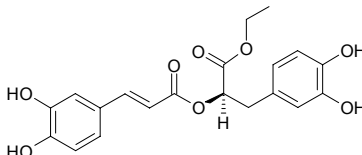
$C_7H_{11}NO_3$ (157.17). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

**7477 4-Ethylresorcinol**

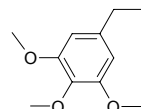
[2896-60-8] $C_8H_{10}O_2$ (138.17). Source: DANG GUI *Angelica sinensis*. Ref: 2.

**7478 Ethyl rosmarinate**

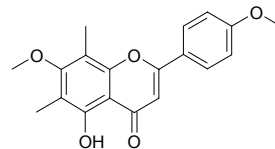
$C_{20}H_{20}O_8$ (388.38). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 0.0412$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mol/L; superoxide radical inhibitor, inactive, control Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, inactive, control Propyl gallate, $IC_{50} = 0.064$ mmol/L). Source: MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindelofia stylosa* (aerial parts). Ref: 4533.

**7479 5-Ethyl-1,2,3-trimethoxybenzene**

$C_{11}H_{16}O_3$ (196.25). Source: *Plagiochila rutilans*. Ref: 5144.

**7480 Eucalyptin**

[3122-88-1] $C_{19}H_{18}O_5$ (326.35). mp 198.5~200.0°C. Source: AN YE *Eucalyptus globulus*, NING MENG AN YE *Eucalyptus citriodora*. Ref: 6.

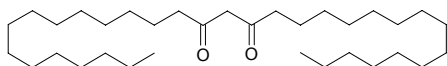
**7481 Eucalyptol**

[470-82-6] $C_{10}H_{18}O$ (154.25). Colorless liquid, camphor-like odor, mp 1.5°C, bp 176~177°C. Pharm: Analgesic; antiasthmatic; antibacterial; anti-inflammatory; anthelmintic; antipyretic. Source: AN YE *Eucalyptus globulus* (95.13% in volatile oil), BAI QIAN CENG *Melaleuca leucadendra*, BIN HAO *Artemisia maritima*, DA YE AN YE *Eucalyptus robusta*, GAO LIANG JIANG *Alpinia officinarum* (dried rhizome: mean content of 6 origins = 0.35%)^[5508], LUO LE *Ocimum basilicum*, MEI GUO XIA LA MEI *Calycanthus floridus*, QING GUO *Canarium album*, SHU ZHI BAN RI HUA *Csitis ladaniferus*, TU QIANG HUO *Hedychium coronarium*, ZHANG MU *Cinnamomum camphora* (wood: content = 0.21%)^[5501], ZI SUI HUAI *Amorpha fruticosa*. Ref: 661, 5501, 5508.

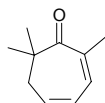


7482 Eucalyptus wax

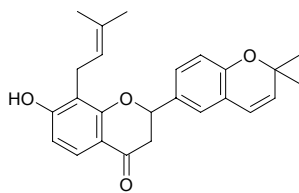
$C_{33}H_{64}O_2$ (492.88). **Pharm:** Used in treatment of diseases in lung and bronchus. **Source:** *Eucalyptus* sp., *Acacia* sp. **Ref:** 658.

**7483 Eucarvone**

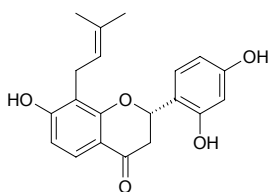
[503-93-5] $C_{10}H_{14}O$ (150.22). bp 99~100°C/22mmHg. **Source:** LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*. **Ref:** 2, 660, 1521.

**7484 Euchrenone**

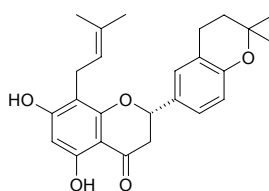
$C_{25}H_{26}O_4$ (390.48). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2431.

**7485 (2S)-Euchrenone A₇**

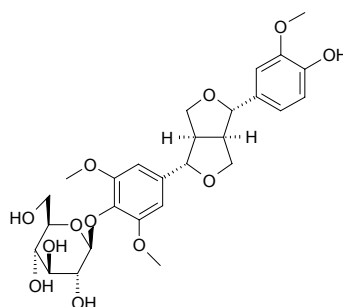
Anticancer Flavonoid PMV70P691-90 $C_{20}H_{20}O_5$ (340.38). **Pharm:** Aromatase inhibitor (*in vitro*, $IC_{50} = 3.4 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090, 5038]. **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.

**7486 (2S)-Euchrenone A₁₆**

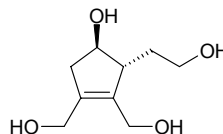
5,7-Dihydroxy-8-(γ,γ -dimethylallyl)-[6''',6'''-dimethyl-4''',5'''-dihydropyrano-(2''',3''':4',3')] -flavanone $C_{25}H_{28}O_5$ (408.50). Yellow oil, $[\alpha]_D^{24} = -213^\circ$ ($c = 0.05$, $CHCl_3$). **Source:** TAI WAN SHAN DOU GEN *Euchresta formosana*. **Ref:** 1977.

**7487 Eucommin A**

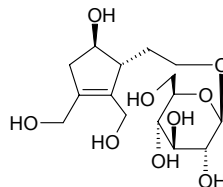
(+)-Medioresinol monoglucoside [99633-12-2] $C_{27}H_{34}O_{12}$ (550.56). **Pharm:** Immunomodulator **Source:** DU ZHONG *Eucommia ulmoides*, HUANG CHAN *Allemanda neritifolia*. **Ref:** 2.

**7488 Eucommiol**

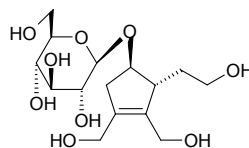
[55930-44-4] $C_9H_{16}O_4$ (188.23). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**7489 Eucommioside I**

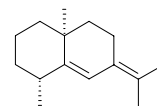
[82225-01-2] $C_{15}H_{26}O_9$ (350.37). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**7490 Eucommioside-II**

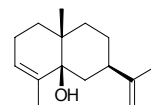
[94190-27-9] $C_{15}H_{26}O_9$ (350.37). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**7491 (+)-Eudesma-5,7(11)-diene**

$C_{15}H_{24}$ (204.36). Colorless oil. **Source:** *Tritomaria polita* (essential oil). **Ref:** 3446.

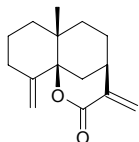
**7492 (-)-Eudesma-3,11-dien-5-ol**

$C_{15}H_{24}O$ (220.36). **Source:** KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). **Ref:** 5129.

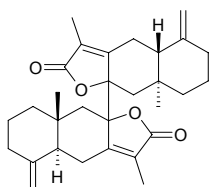


7493 Eudesma-4(15),11(13)-dien-12,5 β -olide

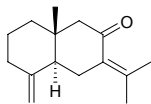
C₁₅H₂₀O₂ (232.33). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00083%dw). Ref: 4709.

**7494 Bis-[8-eudesma-4(15),7(11)-dien-12,8 α -olide]**

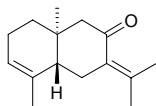
C₃₀H₃₈O₄ (462.63). Colorless prisms, mp 211~212°C (CH₂Cl₂), 210~212°C, [α]_D²⁰ = +255.8° (*c* = 0.122, CHCl₃). Source: *Trattinickia rhoifolia* (resin). Ref: 4213.

**7495 (+)-Eudesma-4(15),7(11)-dien-8-one**

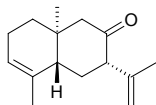
Selina-4(15),7(11)-dien-8-one; Selina-4(14),7(11)-dien-8-one C₁₅H₂₂O (218.34). Colorless oil, [α]_D²⁰ = +92.6° (*c* = 0.034, methanol). Pharm: Anti-inflammatory (mus, reduces blood capillary permeability caused by acetic acid, 300mg/kg, InRt = (31.6±11.9)%). Source: BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], BEI CANG ZHU *Atractylodes chinensis*, CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica*, SHUANG YE XI XIN *Asarum caulescens*. Ref: 660, 661.

**7496 (+)-Eudesma-3,7(11)-dien-8-one**

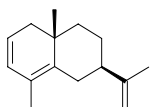
C₁₅H₂₂O (218.34). Colorless oil. Source: *Tritomaria polita* (essential oil). Ref: 3446.

**7497 (+)-Eudesma-3,11-dien-8-one**

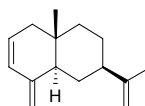
C₁₅H₂₂O (218.34). Colorless oil. Source: *Tritomaria polita* (essential oil). Ref: 3446.

**7498 Eudesma-2,4,11-triene**

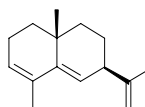
C₁₅H₂₂ (202.34). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**7499 (-)-Eudesma-2,4(15),11-triene**

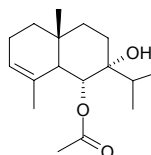
C₁₅H₂₂ (202.34). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**7500 Eudesma-3,5,11-triene**

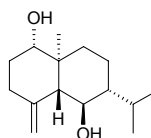
C₁₅H₂₂ (202.34). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**7501 (-)-Eudesm-3-ene-6 α -acetoxy-7 α -ol**

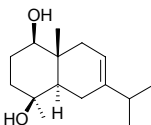
C₁₇H₂₈O₃ (280.41). Colorless needle crystals, mp 141~142°C. Source: LIE E TAI *Chiloscyphus polyanthus*. Ref: 2188.

**7502 ent-4(15)-Eudesmene-1 β ,6 α -diol**

C₁₅H₂₆O₂ (238.37). Amorphous, [α]_D²⁶ = -36.8° (*c* = 0.16, CHCl₃), [α]_D¹² = -31.5° (*c* = 0.13, MeOH). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

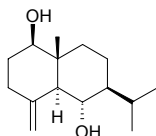
**7503 7-Eudesmene-1,4-diol**

C₁₅H₂₆O₂ (238.37). Colorless plates, mp 107~109°C. Pharm: Antiplasmodial (*Plasmodium falciparum* strains, IC₅₀ = 4.17 μ g/mL, control Chloroquine, IC₅₀ = 0.0028 μ g/mL)^[2383]. Source: *Reneilimia cincinnata* (fruits). Ref: 2383.

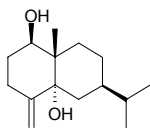


7504 Eudesm-4(15)-ene-1 β ,6 α -diol

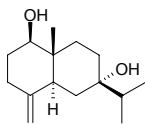
1 β ,6 α -Dihydroxy-eudesman-4(15)-ene C₁₅H₂₆O₂ (238.37). Colorless oil, [α]_D²⁰ = +4.5° (c = 0.2, CHCl₃); [α]_D¹⁷ = +7° (c = 0.50, CHCl₃); White powder, [α]_D²⁰ = -27.1° (c = 1.47, CHCl₃); colorless needles (petroleum ether-EtOAc), [α]_D²⁰ = +45° (c = 0.1, CHCl₃). **Pharm:** Cytotoxic (inhibits growth of Bel7402 cell, 0.0001mol/L, InRt = 29.1%, control Etoposide, InRt = 96.0%)^[5073]; anti-HIV-1 inactive (*in vitro*, HOG R5)^[4688]. **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig: 0.00049%dw), FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts), HUANG HUA HAO *Artemisia annua* (seed), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts), YI NIAN PENG *Erigeron annuus* (aerial parts), ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). **Ref:** 3435, 4338, 4688, 4786, 5073.

**7505 4(15)-Eudesmene-1 β ,5 α -diol**

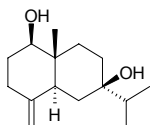
1 β ,5 α -Dihydroxyeudesman-4(15)-ene C₁₅H₂₆O₂ (238.37). Colorless monoclinic crystals (petroleum ether-EtOAc), [α]_D²⁰ = +122° (c = 0.7, CHCl₃); [α]_D¹⁷ = +30° (c = 0.10, CHCl₃). **Pharm:** Antifungal (*Pyricularia oryzae* P-2b, MIC = 20 μ g/mL)^[4786]; glucose consumption activity (C₂C₁₂ muscle cell assay, IC = 10.7 μ g/mL; in animal tests, it showed the same effect on oral glucose tolerance in db/db mouse as metformin, MIC = 100mg/mL)^[4786]. **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts), ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). **Ref:** 4338, 4786, 5073.

**7506 4(15)-Eudesmene-1 β ,7 α -diol**

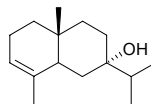
1 β ,7 α -Dihydroxyeudesman-4(15)-ene C₁₅H₂₆O₂ (238.37). Colorless oil, [α]_D¹⁷ = +30° (c = 0.13, CHCl₃); colorless needles (petroleum ether-EtOAc), [α]_D²⁰ = +35° (c = 0.1, CHCl₃). **Pharm:** Antifungal (*Pyricularia oryzae* P-2b, MIC = 12 μ g/mL)^[4786]. **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts), ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). **Ref:** 4786, 5073.

**7507 4(15)-Eudesmene-1 β ,7 β -diol**

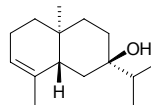
C₁₅H₂₆O₂ (238.37). Colorless needles (petroleum ether-EtOAc), [α]_D²⁰ = -12° (c = 0.1, CHCl₃). **Pharm:** Antifungal (*Pyricularia oryzae* P-2b, MIC = 16 μ g/mL)^[4786]. **Source:** ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). **Ref:** 4786.

**7508 (+)-Eudesm-3-ene-7 α -ol**

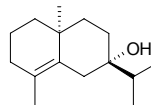
C₁₅H₂₆O (222.37). Greenish oil. **Source:** LIE E TAI *Chiloscyphus polyanthus*. **Ref:** 2188.

**7509 Eudesm-3-en-7-ol**

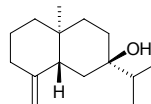
(+)-(2*R*,4*a*S,8*a*R)-1,2,3,4,4*a*,5,6,8*a*-Octahydro-4*a*,8-dimethyl-2-(1-methylethyl)-1,2-naphthalenol C₁₅H₂₆O (222.37). Colorless oil. **Source:** YING ZHI YE TAI *Lepidozia vitrea* (essential oil). **Ref:** 5209.

**7510 Eudesm-4-en-7 α -ol**

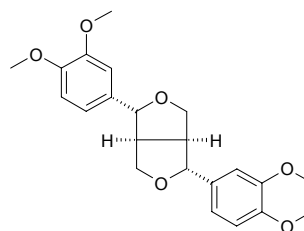
(-)-1,2,3,4,4*a*,5,6,7-Octahydro-4*a*,8-dimethyl-2-(1-methylethyl)-naphthalen-2-ol C₁₅H₂₆O (222.37). Colorless oil. **Source:** DONG YA ZHI YE TAI *Lepidozia fauriana* (essential oil), YING ZHI YE TAI *Lepidozia vitrea* (essential oil). **Ref:** 5209.

**7511 Eudesm-4(15)-en-7-ol**

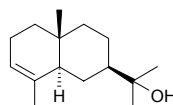
(-)-(2*R*,4*a*S,8*a*R)-Decahydro-4*a*-methyl-8-methylene-2-(1-methylethyl)-2-naphthalenol C₁₅H₂₆O (222.37). Colorless oil. **Source:** YING ZHI YE TAI *Lepidozia vitrea* (essential oil). **Ref:** 5209.

**7512 Eudesmin**

C₂₂H₂₆O₆ (386.45). mp 107-108°C. **Pharm:** Tuberculostatic (*in vitro*); calcium antagonist (gpg, colon bands). **Source:** BAN PI AN *Eucalyptus hemiphloia*, WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*], XI BING MU JIANG ZI *Litsea gracilipes*, ZHAI YE NAN YANG SHAN *Araucaria angustifolia*, ZHOU YE MU LAN *Magnolia praecocissima* (seed), *Haplophyllum* sp. **Ref:** 6, 658, 660, 4181.

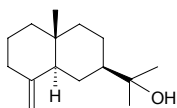
**7513 α -Eudesmol**

[473-16-5] C₁₅H₂₆O (222.37). mp 75°C, bp 156°C/10mmHg. **Source:** CANG ZHU *Atractylodes lancea*, HOU PO *Magnolia officinalis*, AO YE HOU PO *Magnolia biloba*. **Ref:** 6, 660.

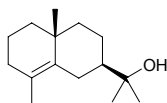


7514 β -Eudesmol

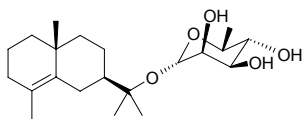
[473-15-4] C₁₅H₂₆O (222.37). mp 76°C. **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (98.5 \pm 1.8)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** AO YE HOU PO *Magnolia biloba*, BEI CANG ZHU *Atractylodes chinensis* (dried rhizome: content = 2.20%^[5531]), CANG ZHU *Atractylodes lancea* (dried rhizome: content scope of 5 origins = 0.44%~1.56%, mean content = 0.84%^[5531]), FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*] (root: content = 1.549% in male, content = 1.727% in female)^[5501], GAN SONG *Nardostachys chinensis*, GUAN CANG ZHU *Atractylodes japonica* (dried rhizome: content = 0.02%^[5531]), HOU PO *Magnolia officinalis*, LIU SHAN *Cryptomeria fortunei*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], SHENG JIANG *Zingiber officinale*. **Ref:** 2, 6, 660, 4150, 5501, 5531.

**7515 γ -Eudesmol**

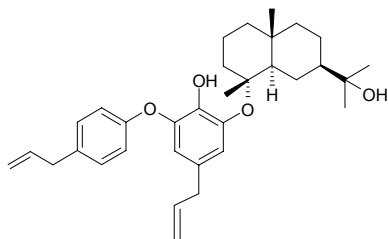
C₁₅H₂₆O (222.37). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 1.5 μ g/mL, Hep 2,2,15, IC₅₀ = 0.01 μ g/mL). **Source:** YI LAN *Cananga odorata* (fruit). **Ref:** 3055.

**7516 γ -Eudesmol 11- α -L-rhamnoside**

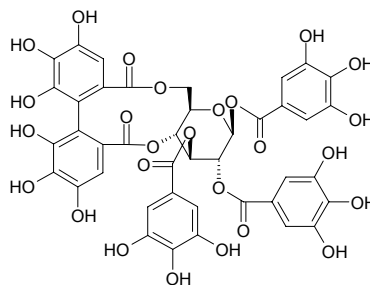
C₂₁H₃₆O₅ (368.52). Gum, [α]_D²⁵ = -11.5° ($c = 0.24$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 3.9 μ g/mL, Hep2,2,15, IC₅₀ = 10.6 μ g/mL). **Source:** YI LAN *Cananga odorata* (fruit). **Ref:** 3055.

**7517 Eudesobovatol A**

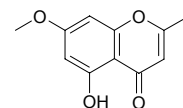
[125196-77-2] C₃₃H₄₄O₄ (504.72). **Pharm:** CNS depressant; used in treatment of neurosis and gastrointestinal disease; neurotrophic. **Source:** RI BEN HOU PO *Magnolia obovata*. **Ref:** 658.

**7518 Eugenin**

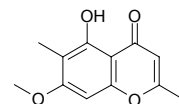
Tellimagrandin II; Cornustannin 2 [58970-75-5] C₄₁H₃₀O₂₆ (938.68). **Pharm:** Antiviral (herpes simplex virus); inhibits lipolysis (rat fat cells, induced by adrenaline); antioxidant (SOD-like activity, EC₅₀ = 94.8 μ mol/L, control Gallic acid, EC₅₀ = 31.7 μ mol/L, *L*-Ascorbic acid, EC₅₀ = 34.6 μ mol/L)^[3408]; antioxidant (DPPH scavenger, EC₅₀ = 0.44 μ mol/L, control Gallic acid, EC₅₀ = 5.88 μ mol/L, *L*-Ascorbic acid, EC₅₀ = 6.25 μ mol/L)^[3408]. **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.063%fw)^[4695], CHI SHAO *Paeonia lactiflora* wild, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], HU TAO REN *Juglans regia*, RI BEN MA SANG *Coriaria japonica*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], XIN SHAO NA CAO *Tellima grandifolia*, *Rosa* sp., *Quercus* sp., *Fuchsia* sp. **Ref:** 2, 658, 3408, 4695.

**7519 Eugenin**

C₁₁H₁₀O₄ (206.20). **Pharm:** Cytotoxic (hmn peripheral blood T cells, dose = 5.0 μ g/mL, T cell survival rate = 98%)^[3498]; immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 5.0 μ g/mL, InRt = 59%). **Source:** HONG CHAI HU *Bupleurum scorzonerifolium* (root). **Ref:** 3498.

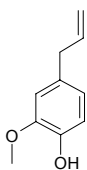
**7520 Eugenitin**

[480-12-6] C₁₂H₁₂O₄ (220.23). mp 162°C. **Source:** DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. **Ref:** 6.

**7521 Eugenol**

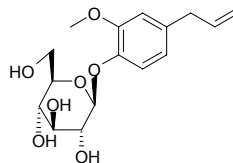
4-Allyl-2-methoxyphenol [97-53-0] C₁₀H₁₂O₂ (164.21). mp -9°C, bp 254-255°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Klebsiella pneumoniae*, *Escherichia coli*, *Shigella shigae*, *Bacillus proteus* etc., IC = 1:2000~1:8000)^[5501]; antifungal (pathogen fungi, EC = 1:8000~1:16000)^[5501]; antioxidant^[5501]; CNS activity (rbt, iv, anesthesia action, lowers blood pressure, inhibits respiration and anticonvulsion)^[5501]; platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μ g/mL, add thrombin 0.1u/mL, AggRt = (91.9 \pm 0.4)%, control AggRt = (92.6 \pm 0.4)%; add AA,

100 μ mol/L, 100 μ g/mL, AggRt = (0.0 \pm 0.0)%, 2 μ g/mL, AggRt = (86.3 \pm 3.9)%, control AggRt = (87.8 \pm 0.3)%, Aspirin 50 μ g/mL, AggRt = (11.7 \pm 10.1)%; add collagen 10 μ g/mL, 100 μ g/mL, AggRt = (17.1 \pm 5.6)%, 2 μ g/mL, AggRt = (88.2 \pm 1.0)%, control AggRt = (89.3 \pm 0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3 \pm 0.5)%; add PAF 2ng/mL, 100 μ g/mL, AggRt = (91.0 \pm 1.0)%, control AggRt = (93.0 \pm 0.6)%^[4938]; antipyretic (rbt with IL-induced fever, stronger than acetyl aminophenol, antipyretic mechanism involves inhibition of PG synthesis in brain)^[5501]; anti-inflammatory (rat, swollen foot model caused by carrageenan; mouse, edema on ears caused by oleum crotonis; gpg, edema on ears caused by benzoic acid)^[5501]; smooth muscle relaxant (smooth muscle in blood vessel, intestine and isolated uterus, smooth muscle in gpg trachea ED₅₀ = (39 \pm 5) μ mol/L, smooth muscle in gpg ileum ED₅₀ = (6.8 \pm 1.0) μ g/mL, but causes constriction of rat isolated bladder)^[5501]; anti-androgenic (testosterone-5 α -reductase inhibitor)^[5501]; LD₅₀ (rat, orl) = 1.93g/kg, (rat, orl) = 2.68g/kg; (mouse, orl) = 3g/kg^[5501]. **Source:** BAI CHANG *Acorus calamus*, CHA SHU *Sassafras tzumu*, CHAI HU *Bupleurum chinense*, DA LIANG JIANG *Alpinia galanga*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*] (dried bud: content scope = 11.2%–15.3%^[5501], mean content = 12.49%^[5508]), DU HENG *Asarum forbesii*, DUO XIANG GUO *Pimenta dioica*, FAN SHI LIU YE *Psidium guajava*, FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], GAO LIANG JIANG *Alpinia officinarum*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], GUI PI *Cinnamomum japonicum*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], JIA JING JIE *Nepeta cataria*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN YIN HUA *Lonicera japonica*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JU JIANG YE *Piper betle*, KE SHI HAO *Artemisia klotzschiana*, KONG SHI CHUN *Ulva pertusa*, LUO LE *Ocimum basilicum*, MA HUA *Cannabis sativa*, MEI GUI HUA *Rosa rugosa*, MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*], ROU DOU KOU *Myristica fragrans* (kernel: content = 0.456%^[5508]), SAN TIAO JIN *Cinnamomum tamala*, SANG YE *Morus alba*, SHE XIANG SHI CAO *Achillea moschata*, SHI CHANG PU *Acorus tatarinowii*, SHI ZHU *Dianthus chinensis*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*], SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*, TAI WAN CHA MU *Sassafras randainense*, TAI WAN HU JIAO *Piper taiwanense* (stem), TIAN NIU ZHI *Origanum majorana*, XI XIN *Asarum sieboldii*, XIANG ZHANG *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], XIAO CAO WU *Delphinium yunnanense*, XIN YI *Magnolia liliflora*, YANG SHI CAO *Achillea millefolium*, YE XIANG SHU *Cestrum nocturnum*, YIN CHEN HAO *Artemisia capillaris*, YIN XING CAO *Siphonostegia chinensis*, YUE GUI ZI *Laurus nobilis*, ZHANG MU *Cinnamomum camphora*, *Ocimum* sp., occurs in many plants. **Ref:** 2, 4, 11, 638, 658, 660, 4938, 5501, 5508.



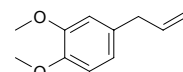
7522 Eugenol- β -D-glucopyranoside

3-Hydroxyestragele- β -D-glucopyranoside C₁₆H₂₂O₇ (326.35). Amorphous powder, [α]_D²³ = -34° (c = 0.4, MeOH). **Pharm:** Neurite outgrowth enhancer inactive (PC12D cells, nerve growth factor-mediated, 10-100 μ mol/L)^[4745]. **Source:** HUI QIN *Pimpinella anisum* (fruit), SHE XIANG CAO *Thymus vulgaris*, YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.0015%). **Ref:** 2592, 3402, 4745.



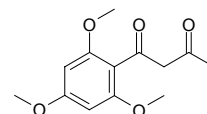
7523 Eugenol methyl ether

Methyl eugenol [93-15-2] C₁₁H₁₄O₂ (178.23). bp 248–249°C. **Pharm:** Antispasmodic. ; CNS depressant; antipyretic; skeletal muscle relaxant. **Source:** JU JIANG YE *Piper betle*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, LUO LE *Ocimum basilicum*, ROU DOU KOU *Myristica fragrans* (kernel: content = 1.052%^[5508]), SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SHENG JIANG *Zingiber officinale*, SHI CHANG PU *Acorus tatarinowii*, SI JING JIE BA DOU *Croton nepetaefolius*, XI XIN *Asarum sieboldii*, YIN CHEN HAO *Artemisia capillaris*, occurs in many plants (in many essential oils). **Ref:** 2, 4, 658, 660, 5501, 5508.



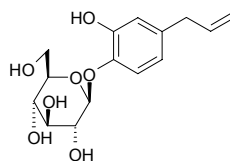
7524 Eugenone

[480-27-3] C₁₃H₁₆O₅ (252.27). mp 97–98°C. **Source:** DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. **Ref:** 6.



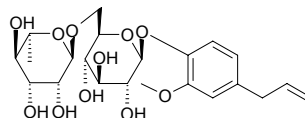
7525 Eugenylglucoside

3,4-Dihydroxy-allylbenzene-4-O- β -D-glucopyranoside C₁₅H₂₀O₇ (312.32). White powder. **Source:** BAI MEI HUA *Prunus mume* (flower: yield = 0.050%fw), JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. **Ref:** 2114, 4641.



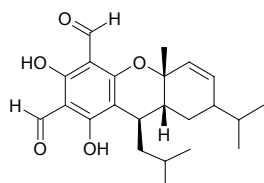
7526 Eugenyl- β -rutinoside

C₂₂H₃₂O₁₁ (472.49). Yellow-white powder. **Source:** BO SI YI MU CAO *Leonurus persicus*. **Ref:** 2499.

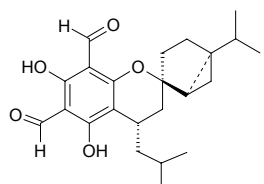


7527 Euglobal Ia₁

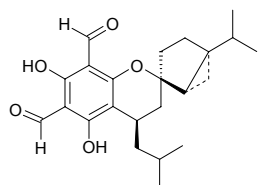
[77844-93-0] C₂₃H₃₀O₅ (386.49). **Pharm:** Inhibits granulation. **Source:** AN YE *Eucalyptus globulus*. **Ref:** 658.

**7528 Euglobal Ib**

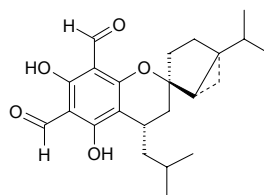
[77844-94-1] C₂₃H₃₀O₅ (386.49). Colorless acicular crystals (chloroform), mp 118~120°C, [α]_D²⁰ = +2.27 (*c* = 0.65, chloroform). **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt = (70~80)% with molecular ratio of Euglobal-Ib/TPA 1000, while InRt = 50% with ratio 100). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 977, 982.

**7529 Euglobal Ic**

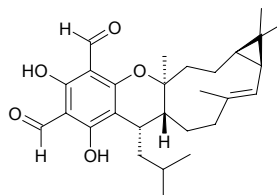
[77794-60-6] C₂₃H₃₀O₅ (386.49). Colorless rhombic crystals (ethanol), mp 108~110°C, [α]_D²⁰ = -3.12 (*c* = 1.0, chloroform). **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt over 80% with molecular ratio of Euglobal-Ic/TPA 1000, while InRt = (20~30)% with ratio 100). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 977, 982.

**7530 Euglobal Iia**

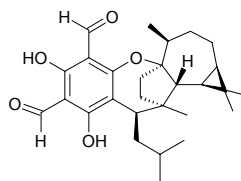
[77844-92-9] C₂₃H₃₀O₅ (386.49). Colorless rhombic crystals (chloroform), mp 115~117°C, [α]_D²⁰ = +26.7° (*c* = 0.7, chloroform). **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt over 80% with molecular ratio of Euglobal-Iia/TPA 1000, while InRt (20~30)% with ratio 100). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 977, 982.

**7531 Euglobal III**

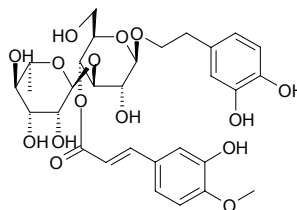
[76449-26-8] C₂₈H₃₈O₅ (454.61). Colorless acicular crystals (ethanol), mp 169~170°C, [α]_D²⁰ = +229° (*c* = 1.0, chloroform). **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt = 100% with molecular ratio of Euglobal-III/TPA 1000, while InRt over 70% with ratio 500). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 981, 984, 1013.

**7532 Euglobal V**

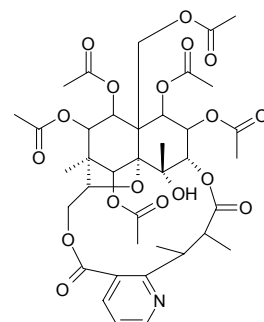
[77809-89-3] C₂₈H₃₈O₅ (454.61). Colorless rhombic crystals, mp 184~185°C, [α]_D²⁰ = -206° (*c* = 1, chloroform). **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt = 80% with molecular ratio of Euglobal-V/TPA 1000, while InRt over 40% with ratio 500). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 981, 984, 1042.

**7533 Eukovoside**

C₃₀H₃₈O₁₅ (638.63). Amorphous powder. **Source:** DUAN XIAN XIAO MI CAO *Euphrasia regelii*. **Ref:** 2432.

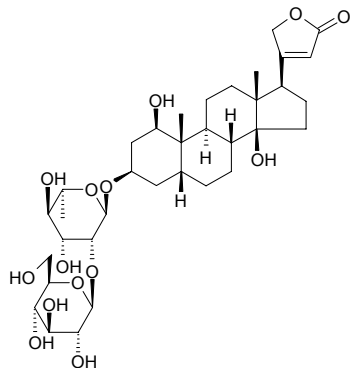
**7534 Euonymine**

C₃₈H₄₇NO₁₈ (805.79). White powder. **Source:** LEI GONG TENG *Tripterygium wilfordii* (root heart). **Ref:** 4559.

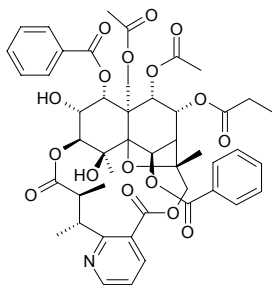


7535 Euonymoside A

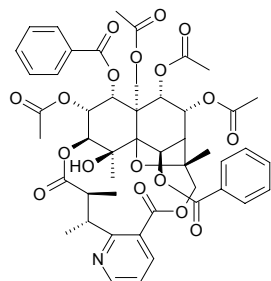
[155740-04-8] $C_{35}H_{54}O_{14}$ (698.81). Colorless thin crystals (methanol), mp 172–173°C, $[\alpha]_D^{25} = +33.9^\circ$ ($c = 2.42$, chloroform:methanol = 4:1). **Pharm:** Cytotoxic (A549 *in vitro*, $IC_{50} = 0.06\mu\text{g/mL}$, SK-OV-3, $IC_{50} = 0.4\mu\text{g/mL}$). **Source:** XI BO SHI WEI MAO *Euonymus sieboldianus* **Ref:** 994, 1148, 1521.

**7536 Euophelline**

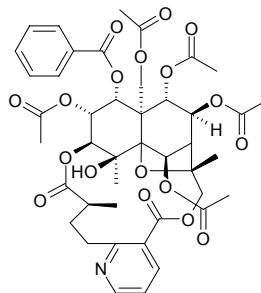
$C_{47}H_{51}NO_{17}$ (901.93). Amorphous white powder, mp 168–169°C, $[\alpha]_D^{24} = +2.2^\circ$ ($c = 0.45$, $CHCl_3$). **Source:** YOU DIAN WEI MAO *Euonymus verrucosides*, FU FANG TENG *Euonymus fortunei*, SHUAN CHI WEI MAO *Euonymus phellomana*. **Ref:** 1928.

**7537 Euoverrine A**

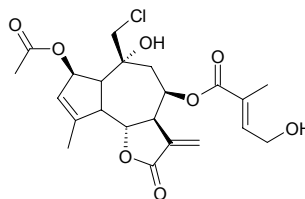
$C_{48}H_{51}NO_{18}$ (929.94). Amorphous white powder, mp 145–146°C, $[\alpha]_D^{24} = +5.5^\circ$ ($c = 0.55$, $CHCl_3$). **Source:** YOU DIAN WEI MAO *Euonymus verrucosides*, FU FANG TENG *Euonymus fortunei*, SHUAN CHI WEI MAO *Euonymus phellomana*. **Ref:** 1928.

**7538 Euoverrine B**

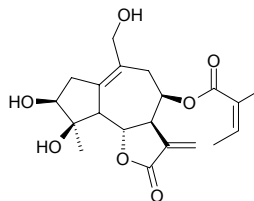
$C_{43}H_{49}NO_{18}$ (867.87). Amorphous white powder, mp. 148–149°C, $[\alpha]_D^{24} = +10.9^\circ$ ($c = 0.55$, $CHCl_3$). **Source:** YOU DIAN WEI MAO *Euonymus verrucosides*, FU FANG TENG *Euonymus fortunei*, SHUAN CHI WEI MAO *Euonymus phellomana*. **Ref:** 1928.

**7539 Eupachifolin D**

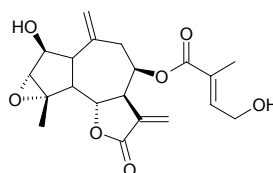
$C_{22}H_{27}ClO_8$ (454.91). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00036%^[4762]), HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0023%^[4739]). **Ref:** 4739, 4762.

**7540 Eupachinilide A**

8 β -Angelyloxy-3 β ,4 β ,14-trihydroxy-5 α H,6 β H,7 α H-guai-1(10),11(13)-diene-6,12-olide $C_{20}H_{26}O_7$ (378.43). White powder, $[\alpha]_D^{20} = -65.8^\circ$ ($c = 0.58$, CH_3OH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} = 10.8\mu\text{g/mL}$; Bel7402, $IC_{50} = 72.2\mu\text{g/mL}$; control Hydroxycamptothecin, HL-60, $IC_{50} = 0.024\mu\text{g/mL}$; Bel7402, $IC_{50} = 0.62\mu\text{g/mL}$). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0036%). **Ref:** 4739.

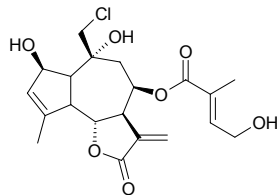
**7541 Eupachinilide B**

8 β -(4'-Hydroxytiglyloxy)-3 α ,4 α -epoxy-2 β -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-1(10),11(13)-diene-6,12-olide $C_{20}H_{24}O_7$ (376.41). White powder, $[\alpha]_D^{20} = -67.1^\circ$ ($c = 0.50$, CH_3OH). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0036%). **Ref:** 4739.

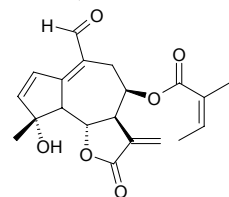


7542 Eupachinilide C

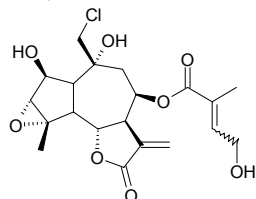
$C_{20}H_{25}ClO_7$ (412.87). Gum, $[\alpha]_D^{20} = -66.9^\circ$ ($c = 0.50$, CH_3OH). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0265%^[4762]), HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.00032%^[4739]). **Ref:** 4739, 4762.

**7543 Eupachinilide D**

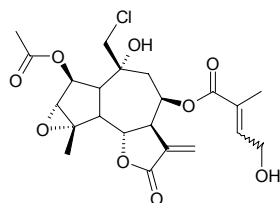
8β -Angelyloxy-4 α -hydroxy-14-oxo-5 αH ,6 βH ,7 αH -guaia-2,10(14),11(13)-trien-6,12-olide $C_{20}H_{22}O_6$ (358.39). White powder, $[\alpha]_D^{20} = -204.0^\circ$ ($c = 1.53$, CH_3OH). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0036%). **Ref:** 4739.

**7544 Eupachinilide E**

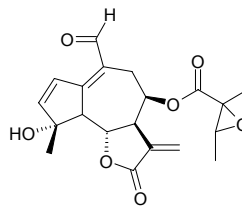
8β -(4'-Hydroxytiglyloxy)-14-chlorine-3 α ,4 α -epoxy-2 β ,10 α -dihydroxy-1 αH ,5 αH ,6 βH ,7 αH -guaia-11(13)-ene-6,12-olide $C_{20}H_{25}ClO_8$ (428.87). White powder, $[\alpha]_D^{20} = -59.4^\circ$ ($c = 0.60$, CH_3OH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} = 1.3\mu g/mL$; Bel7402, $IC_{50} = 18\mu g/mL$; control Hydroxycamptothecin, HL-60, $IC_{50} = 0.024\mu g/mL$; Bel7402, $IC_{50} = 0.62\mu g/mL$)^[4739]. **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00059%^[4762]), HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0032%^[4739]). **Ref:** 4739, 4762.

**7545 Eupachinilide F**

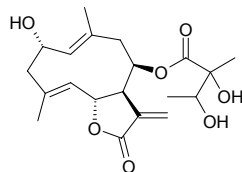
8β -(4'-Hydroxytiglyloxy)-2 β -acetoxy-14-chlorine-3 α ,4 α -epoxy-10 α -hydroxy-1 αH ,5 αH ,6 βH ,7 αH -guaia-11(13)-ene-6,12-olide $C_{22}H_{27}ClO_9$ (470.91). White powder, $[\alpha]_D^{20} = -52.3^\circ$ ($c = 0.84$, CH_3OH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} = 0.87\mu g/mL$; Bel7402, $IC_{50} = 3.7\mu g/mL$; control Hydroxycamptothecin, HL-60, $IC_{50} = 0.024\mu g/mL$; Bel7402, $IC_{50} = 0.62\mu g/mL$). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0027%). **Ref:** 4739.

**7546 Eupachinilide G**

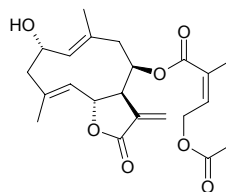
8β -(2',3'-Epoxy-2'-methylbutanoxy)-4 α -hydroxy-14-oxo-5 αH ,6 βH ,7 αH -guaia-1(10),2,11(13)-triene-6,12-olide $C_{20}H_{22}O_7$ (374.39). Gum, $[\alpha]_D^{20} = -216.5^\circ$ ($c = 0.65$, CH_3OH). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.00023%). **Ref:** 4739.

**7547 Eupachinilide H**

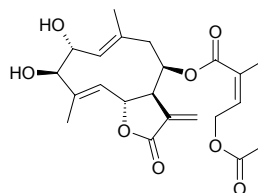
8β -(2',3'-Dihydroxy-2'-methylbutanoxy)-2 α -hydroxy-6 βH ,7 αH -germacra-1(10)-*E*,4*E*,11(13)-triene-6,12-olide $C_{20}H_{28}O_7$ (380.44). White powder, $[\alpha]_D^{20} = +34.7^\circ$ ($c = 0.54$, CH_3OH). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.00091%). **Ref:** 4739.

**7548 Eupachinilide I**

8β -(4'-Acetoxyangelyloxy)-2 α -hydroxy-6 βH ,7 αH -germacra-1(10)-*E*,4*E*,11(13)-triene-6,12-olide $C_{22}H_{28}O_7$ (404.46). White powder, $[\alpha]_D^{20} = +76.1^\circ$ ($c = 0.65$, CH_3OH). **Pharm:** Cytotoxic (*in vitro*, HL-60, $IC_{50} = 0.94\mu g/mL$; Bel7402, $IC_{50} = 3.6\mu g/mL$; control Hydroxycamptothecin, HL-60, $IC_{50} = 0.024\mu g/mL$; Bel7402, $IC_{50} = 0.62\mu g/mL$). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0018%). **Ref:** 4739.

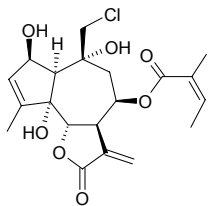
**7549 Eupachinilide J**

8β -(4'-Acetoxyangelyloxy)-2 α ,3 β -dihydroxy-6 βH ,7 αH -germacra-1(10)-*E*,4*E*,11(13)-triene-6,12-olide $C_{22}H_{28}O_8$ (420.46). White powder, $[\alpha]_D^{20} = +40.8^\circ$ ($c = 0.55$, CH_3OH). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0018%). **Ref:** 4739.

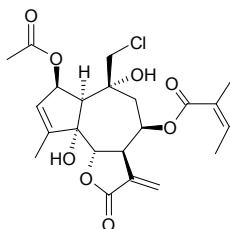


7550 Eupachlorin

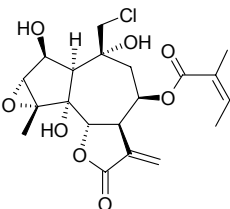
[20071-50-5] C₂₀H₂₅NO₇ (412.87). Colorless lamellar crystals (methanol), mp 219~221°C (dec), [α]_D²⁷ = -110° (c = 0.35, ethanol). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.21 μg/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7551 Eupachlorin acetate**

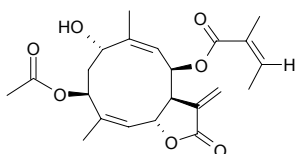
[20501-52-4] C₂₂H₂₇ClO₈ (454.91). Colorless acicular crystals (benzene), mp 161~164°C (vacuum, dec), [α]_D²⁶ = -192° (c = 0.63, methanol). **Pharm:** Antineoplastic (rat W₂₅₆); cytotoxic (KB, ED₅₀ = 0.18 μg/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7552 Eupachloroxin**

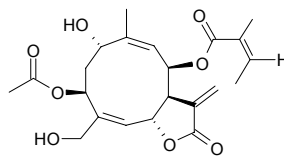
[20071-52-7] C₂₀H₂₅ClO₈ (428.87). Amorphous powder. **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.21 μg/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7553 Eupacunin**

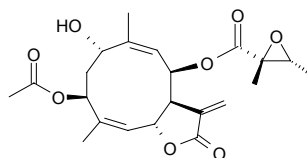
[33854-15-8] C₂₂H₂₈O₇ (404.46). Colorless acicular crystals (methanol-ether), mp 166~167°C, [α]_D²⁵ = +55° (c = 1.24, acetone). **Pharm:** Antineoplastic (rat, P₃₈₈, W₂₅₆, *in vivo*); cytotoxic (KB, ED₅₀ = 2.1 μg/mL). **Source:** XIE YE ZE LAN *Eupatorium cuneifolium*, ZHEN YE ZE LAN *Eupatorium lancifolium*. **Ref:** 661.

**7554 Eupacunolin**

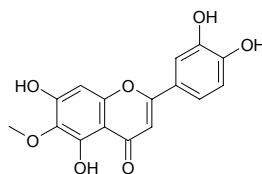
[79491-59-1] C₂₂H₂₈O₈ (420.46). Colorless acicular crystals (methanol-chloroform), mp 164~165°C, [α]_D²⁶ = +46° (c = 1.02, acetone). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 3.7 μg/mL). **Source:** XIE YE ZE LAN *Eupatorium cuneifolium*. **Ref:** 661.

**7555 Eupacunoxin**

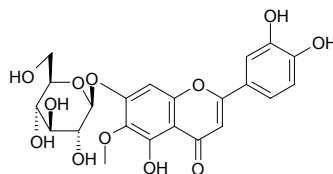
[33853-88-2] C₂₂H₂₈O₈ (420.46). Colorless acicular crystals (ether), mp 171~172°C, [α]_D²⁶ = +27° (c = 1.0, acetone). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 2.1 μg/mL). **Source:** XIE YE ZE LAN *Eupatorium cuneifolium*. **Ref:** 661.

**7556 Eupafolin**

5,7,3',4'-Tetrahydroxy-6-methoxyflavone; 6-Methoxyluteolin [520-11-6] C₁₆H₁₂O₇ (316.27). Yellow acicular crystals, mp 257~259°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 18 μg/mL). **Source:** JIN JI ZE LAN *Eupatorium subastatum*, LI ZHI CAO *Salvia plebeia*, MAO LIAN HAO *Artemisia vestita*, MI DIE XIANG *Rosmarinus officinalis*, PENG LAI CAO *Lippia nodiflora*, XIE YE ZE LAN *Eupatorium cuneifolium*, YIN DU JIA JING JIE *Nepeta hindostana*. **Ref:** 5, 474, 658.

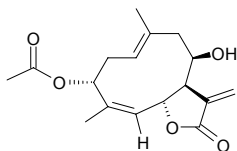
**7557 Eupafolin-7-glucoside**

Nepitrin; 6-Methoxyluteolin-7-glucoside C₂₂H₂₂O₁₂ (478.41). mp 252~256°C (dec). **Pharm:** Antioxidant (DPPH free radical scavenger, DPPH radical 15 μmol/L: 10 μmol/L, ScRt = 38.1%; control BHA, 10 μmol/L, ScRt = 23.0%; Vitamin E, 10 μmol/L, ScRt = 41.1%)^[3846]. **Source:** DA MA YE ZE LAN *Eupatorium cannabinum*, JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*^[3846], LI ZHI CAO *Salvia plebeia*, MAO DI HUANG *Digitalis purpurea*, MAO HUA MAO DI HUANG *Digitalis lanata*, PENG LAI CAO *Lippia nodiflora*, XIANG RI KUI YE *Helianthus annuus*, XUAN FU HUA *Inula britannica*, YANG SHI CAO *Achillea millefolium*. **Ref:** 6, 660, 1388, 3846.

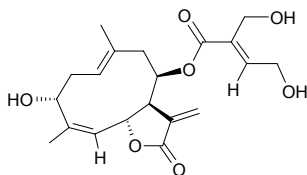


7558 Eupaformonin

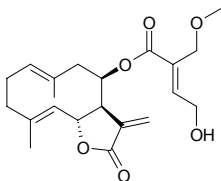
[55520-20-2] C₁₇H₂₂O₅ (306.36). Colorless prismatic crystals, mp 216~218°C. **Pharm:** Cytotoxic (hmn throat epicytoma cells, *in vitro*). **Source:** TAI WAN ZE LAN *Eupatorium formosanum*. **Ref:** 661.

**7559 Eupaformosanin**

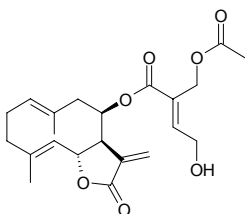
[64439-43-6] C₂₀H₂₆O₇ (378.43). **Pharm:** Antineoplastic; cytotoxic. **Source:** TAI WAN ZE LAN *Eupatorium formosanum*. **Ref:** 658.

**7560 Eupaglehnin A**

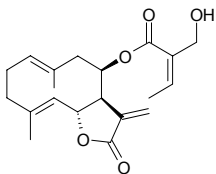
C₂₁H₂₉O₆ (376.45). Oil, [α]_D²⁴ = +55.3° (c = 0.86, EtOH). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7561 Eupaglehnin B**

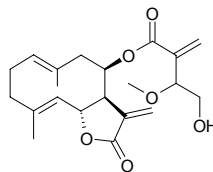
C₂₂H₂₈O₇ (404.46). Oil, [α]_D²⁰ = +52.5° (c = 0.5, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7562 Eupaglehnin C**

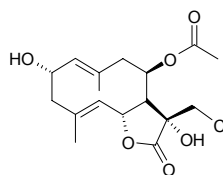
C₂₀H₂₆O₅ (346.43). Oil, [α]_D²⁰ = +48.0° (c = 1.5, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7563 Eupaglehnin D**

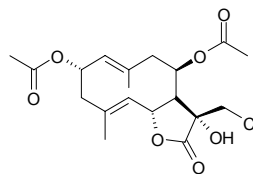
C₂₁H₂₈O₆ (376.45). Oil, [α]_D²⁰ = +19.7° (c = 0.39, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7564 Eupaglehnin E**

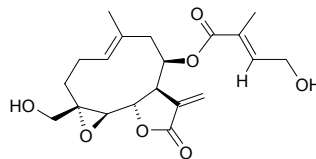
C₁₇H₂₃ClO₆ (358.82). Oil, [α]_D²⁴ = +63.8° (c = 0.5, EtOH). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7565 Eupaglehnin F**

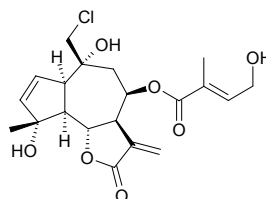
C₁₉H₂₅ClO₇ (400.86). Oil, [α]_D²⁰ = +40.0° (c = 0.3, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

**7566 Eupahyssopin**

Eupahyssopin [57718-77-1] C₂₀H₂₆O₇ (378.43). Colorless prismatic crystals (chloroform), mp 125°C, [α]_D²⁵ = -138.9° (c = 1.45, chloroform). **Pharm:** Antiarthritic (animal model); antineoplastic (rat, W₂₅₆); anti-inflammatory (animal model); cytotoxic (mus EAC cells, inhibits biosynthesis of DNA, RNA, protein and cholesterol). **Source:** SHEN XIANG CAO YE ZE LAN *Eupatorium hyssopifolium*. **Ref:** 661.

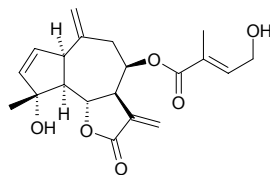
**7567 Eupalinilide A**

8β-(4'-Hydroxytylgloyloxy)-14-chloro-4β,10β-dihydroxy-1αH,5αH,6βH,7αH-guai-2,11(13)-dien-6,12-olide C₂₀H₂₅ClO₇ (412.87). Colorless gum, [α]_D²⁰ = -34.3° (c = 0.47, CHCl₃). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00055%dw). **Ref:** 4762.

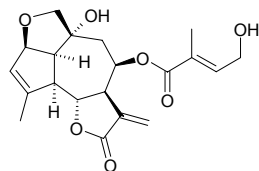


7568 Eupalinilide B

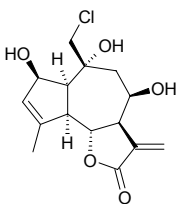
8 β -(4'-Hydroxytigloyloxy)-4 α -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-2,10-(14),11(13)-trien-6,12-olide C₂₀H₂₄O₆ (360.41). Colorless gum, [α]_D²⁰ = -84.9° (*c* = 0.67, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 0.21 μ g/mL; A549, IC₅₀ = 0.75 μ g/mL; control Pseudolaric acid B, P₃₈₈, IC₅₀ = 0.32 μ g/mL; A549, IC₅₀ = 0.86 μ g/mL). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00045%dw). **Ref:** 4762.

**7569 Eupalinilide C**

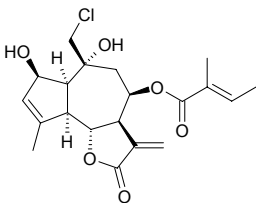
8 β -(4'-Hydroxytigloyloxy)-2 β ,14-epoxy-10 α -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide C₂₀H₂₄O₇ (376.41). White powder, [α]_D²⁰ = -7.0° (*c* = 1.0, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 1.2 μ g/mL; A549, IC₅₀ = 11 μ g/mL; control Pseudolaric acid B, P₃₈₈, IC₅₀ = 0.32 μ g/mL; A549, IC₅₀ = 0.86 μ g/mL). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00068%dw). **Ref:** 4762.

**7570 Eupalinilide D**

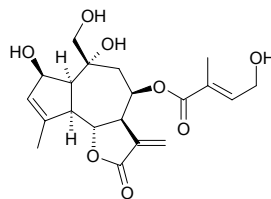
14-Chloro-2 β ,8 β ,10 α -trihydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide C₁₅H₁₉ClO₅ (314.77). Colorless gum, [α]_D²⁰ = -59.4° (*c* = 0.8, CHCl₃). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00055%dw). **Ref:** 4762.

**7571 Eupalinilide E**

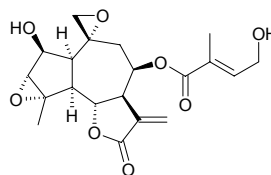
8 β -Tigloyloxy-14-chloro-2 β ,10 α -dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide C₂₀H₂₅ClO₆ (396.87). White powder, [α]_D²⁰ = -56.2° (*c* = 1.0, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, inactive; A549, IC₅₀ = 0.028 μ g/mL; control Pseudolaric acid B, P₃₈₈, IC₅₀ = 0.32 μ g/mL; A549, IC₅₀ = 0.86 μ g/mL). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0033%dw). **Ref:** 4762.

**7572 Eupalinilide F**

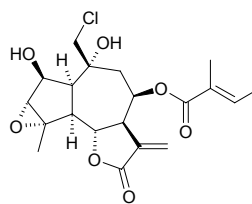
8 β -(4'-Hydroxytigloyloxy)-2 β ,10 α ,14-trihydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide C₂₀H₂₆O₈ (394.43). Colorless gum, [α]_D²⁰ = -38.0° (*c* = 1.3, CH₃OH). **Pharm:** Cytotoxic inactive (*in vitro*, P₃₈₈, A549; control Pseudolaric acid B, P₃₈₈, IC₅₀ = 0.32 μ g/mL; A549, IC₅₀ = 0.86 μ g/mL). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0034%dw). **Ref:** 4762.

**7573 Eupalinilide G**

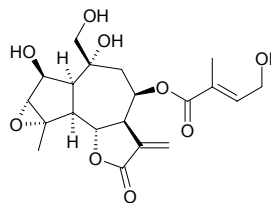
8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α :10 α ,14-diepoxy-2 β -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide C₂₀H₂₄O₈ (392.41). Colorless gum, [α]_D²⁰ = -44.3° (*c* = 0.47, CHCl₃). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00032%dw). **Ref:** 4762.

**7574 Eupalinilide H**

8 β -Tigloyloxy-14-chloro-3 α ,4 α -epoxy-2 β ,10-dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide C₂₀H₂₅ClO₇ (412.87). Colorless gum, [α]_D²⁰ = -45.0° (*c* = 1.5, CHCl₃). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0021%dw). **Ref:** 4762.

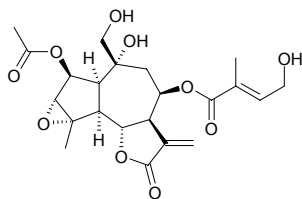
**7575 Eupalinilide I**

8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α -epoxy-2 β ,10 α ,14-trihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide C₂₀H₂₆O₉ (410.42). Colorless gum, [α]_D²⁰ = -43.4° (*c* = 1.0, CH₃OH). **Pharm:** Cytotoxic inactive (*in vitro*, P₃₈₈, A549; control Pseudolaric acid B, P₃₈₈, IC₅₀ = 0.32 μ g/mL; A549, IC₅₀ = 0.86 μ g/mL). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00086%dw). **Ref:** 4762.

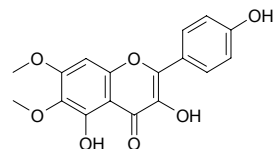


7576 Eupalinilide J

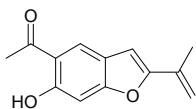
8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α -epoxy-2 β -acetoxy-10 α ,14-dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide C₂₂H₂₈O₁₀ (452.46). Colorless gum, [α]_D²⁰ = -46.7° (c = 0.68, CHCl₃). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00055%dw). **Ref:** 4762.

**7577 Eupalitin**

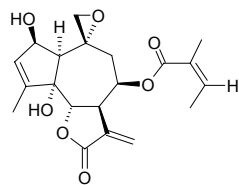
6,7-Dimethoxy-3,5,4'-trihydroxyflavone [In DNP] C₁₇H₁₄O₇ (330.30). **Source:** CU YING MAO DIAN ZI CAO *Onosma hispida* (whole herb), YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 4490.

**7578 Euparin**

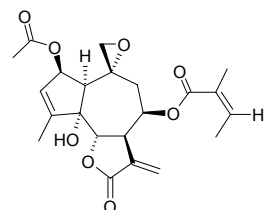
[532-48-9] C₁₃H₁₂O₃ (216.24). mp 121~122°C. **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum*, PEI LAN *Eupatorium fortunei*, ZHAI TOU TUO WU *Ligularia stenocephala* (root). **Ref:** 6, 4536.

**7579 Euparotin**

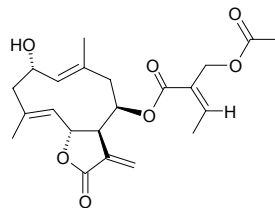
[10191-01-2] C₂₀H₂₄O₇ (376.41). Acicular crystals (ethyl acetate-petroleum ether), mp 199~200°C (vacuum), [α]_D³² = -124° (c = 1.25, ethanol). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.21 μ g/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7580 Euparotin acetate**

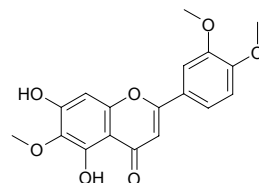
[10215-89-1] C₂₂H₂₆O₈ (418.45). mp 156~157°C (vacuum), [α]_D³⁰ = -191° (c = 0.54, ethanol). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.21 μ g/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7581 Eupaserrin**

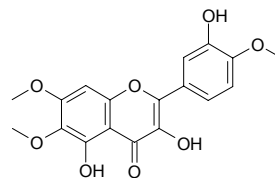
[38456-36-9] C₂₂H₂₈O₇ (404.46). Crystals (ether-methanol), mp 153~154°C, [α]_D²⁵ = +71.2° (c = 0.94, methanol). **Pharm:** Antineoplastic (mus, P₃₈₈, 30mg/kg); cytotoxic (KB, ED₅₀ = 0.23 μ g/mL). **Source:** BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0014%)^[4739], KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*], ROU MAO XIANG RI KUI *Helianthus mollis*. **Ref:** 661, 4226, 4739.

**7582 Eupatilin**

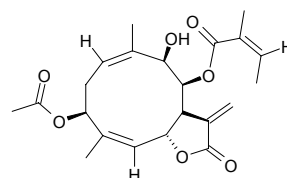
5,7-Dihydroxy-3',4',6'-trimethoxyflavone [22368-21-4] C₁₈H₁₆O₇ (344.32). Crystals (ethyl acetate), mp 234~236°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 38 or 45 μ g/mL). **Source:** BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, HONG ZU HAO *Artemisia rubripes*, JU PI *Citrus reticulata*, YE JU HUA *Chrysanthemum indicum*. **Ref:** 661, 4214.

**7583 Eupatin**

3,5,3'-Trihydroxy-6,7,4'-trimethoxy flavone [19587-65-6] C₁₈H₁₆O₈ (360.32). Golden bar crystals (methanol), mp 243~245°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 4.6 μ g/mL). **Source:** BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660, 661.

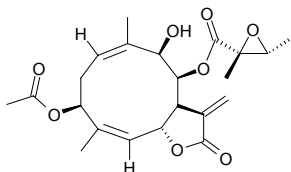
**7584 Eupatocunin**

[33853-87-1] C₂₂H₂₈O₇ (404.46). Colorless prismatic crystals (methanol-ether), mp 163~164°C, [α]_D²⁶ = -129° (c = 1.36, acetone). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.11 μ g/mL). **Source:** XIE YE ZE LAN *Eupatorium cuneifolium*. **Ref:** 661.

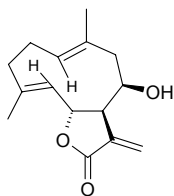


7585 Eupatocunoxin

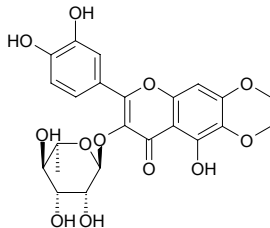
[39204-36-9] C₂₂H₂₈O₈ (420.46). Acicular crystals (acetone), mp 200~201°C, [α]_D²⁶ = -209° (c = 1, acetone). Pharm: Antineoplastic; cytotoxic (KB, ED₅₀ = 1.7μg/mL). Source: XIE YE ZE LAN *Eupatorium cuneifolium*. Ref: 661.

**7586 Eupatolide**

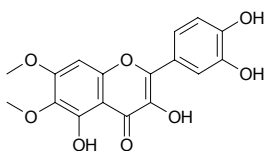
[6750-25-0] C₁₅H₂₀O₃ (248.32). Crystals (chloroform), mp 188~190°C. Pharm: Antineoplastic; anti-inflammatory; cytotoxic (HEP2, ED₅₀ = 0.469μg/mL, W-18Va-2, ED₅₀ = 0.034μg/mL, KB, HeLa, normal Rk and EAC-E4 cells). Source: KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*], TAI WAN ZE LAN *Eupatorium formosanum*. Ref: 661, 4226.

**7587 Eupatolin**

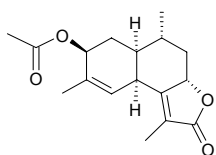
[29725-50-6] C₂₃H₂₄O₁₂ (492.44). mp 200~201°C. Source: PEI LAN *Eupatorium fortunei*. Ref: 6.

**7588 Eupatolitin**

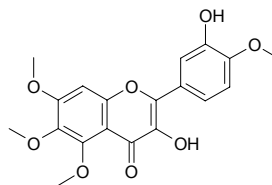
3,5,3',4'-Tetrahydroxy-6,7-dimethoxyflavone [29536-44-5] C₁₇H₁₄O₈ (346.30). Source: HUANG HUA HAO *Artemisia annua*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 660.

**7589 Eupatoranolide**

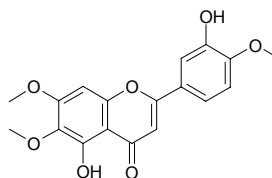
C₁₇H₂₂O₄ (290.36). Colorless crystals, mp 182~184°C. Source: ZI JING ZE LAN HUA *Eupatorium adenophorum*. Ref: 882.

**7590 Eupatoretin**

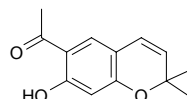
3,3'-Dihydroxy-4',5,6,7-tetramethoxyflavone [19587-69-0] C₁₉H₁₈O₈ (374.35). Yellowish acicular crystals (benzene), mp 146~148°C. Pharm: Cytotoxic (KB). Source: BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*. Ref: 661.

**7591 Eupatorin**

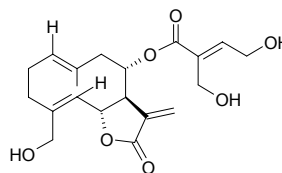
3',5-Dihydroxy-4',6,7-trimethoxyflavone [855-96-9] C₁₈H₁₆O₇ (344.32). Crystals (dioxane-water), mp 196~198°C. Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 11.7%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%)^[4508]. Source: BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, GAO ZE LAN *Eupatorium altissimum*, TIAN SHE CAO *Lippia dulcis* (aerial parts), XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn. *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00028%dw)^[3053]. Ref: 661, 3053, 4508.

**7592 Eupatoriochromene**

6-Acetyl-7-hydroxy-2,2-dimethyl-2H-1-benzopyran [19013-03-7] C₁₃H₁₄O₃ (218.25). Pharm: Phototoxic (yeast and bacteria). Source: HE AN ZE LAN *Eupatorium riparium*. Ref: 658.

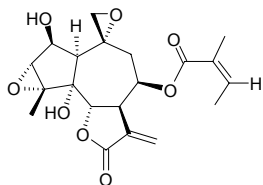
**7593 Eupatoriopicrin**

[6856-01-5] C₂₀H₂₆O₇ (378.43). mp 157~161°C (dilute ethanol), [α]_D²⁰ = +95° (chloroform). Pharm: Antineoplastic; cytotoxic (KB, HeLa, normal Rk cells and EAC-E4 cells). Source: PEI LAN *Eupatorium fortunei*, DA MA YE ZE LAN *Eupatorium cannabinum*, KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. Ref: 6, 661, 4226.

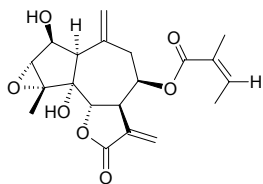


7594 Eupatoroxin

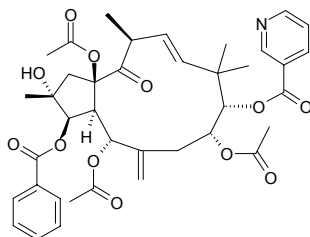
[20071-51-6] C₂₀H₂₄O₈ (392.41). mp 197~200°C, [α]_D²⁶ = -98° (c = 1.10, methanol). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 2.8µg/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7595 Eupatundin**

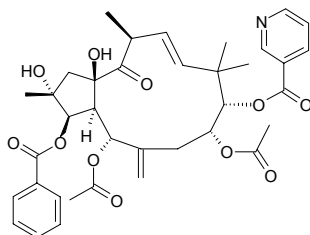
[20071-53-8] C₂₀H₂₄O₇ (376.41). mp 188~189°C (vacuum), [α]_D²⁹ = -80° (c = 0.44, ethanol). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 0.39µg/mL). **Source:** YUAN YE ZE LAN *Eupatorium rotundifolium*. **Ref:** 661.

**7596 Euphocharacin A**

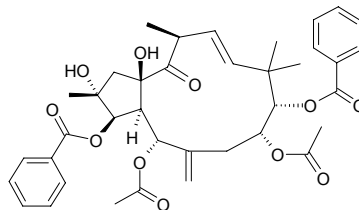
C₃₉H₄₅NO₁₂ (719.79). Colorless amorphous solid, [α]_D²⁵ = -22.17° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (59±1)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7597 Euphocharacin B**

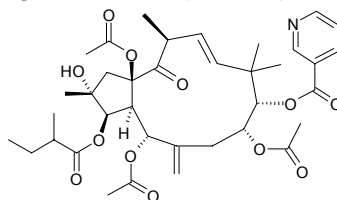
C₃₇H₄₃NO₁₁ (677.76). Colorless amorphous solid, [α]_D²⁵ = +117.69° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (72±1)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7598 Euphocharacin C**

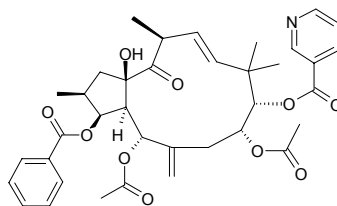
C₃₈H₄₄O₁₁ (676.77). Colorless amorphous solid, [α]_D²⁵ = +16.67° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (123±2)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7599 Euphocharacin D**

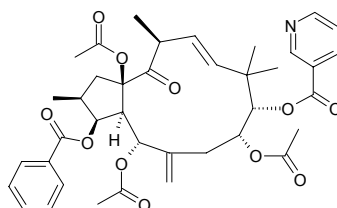
C₃₇H₄₉NO₁₂ (699.80). Colorless amorphous solid, [α]_D²⁵ = +8.0° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (52±3)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7600 Euphocharacin E**

C₃₇H₄₃NO₁₀ (661.76). Colorless amorphous solid, [α]_D²⁵ = -16.71° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (105±3)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

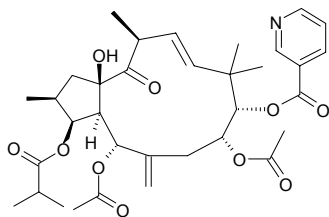
**7601 Euphocharacin F**

C₃₉H₄₅NO₁₁ (703.79). Colorless amorphous solid, [α]_D²⁵ = -2.10° (c = 0.1, CHCl₃). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = (86±2)%, relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

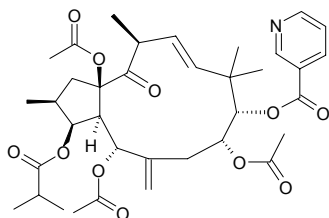


7602 Euphocharacin G

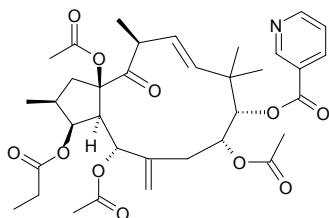
$C_{34}H_{45}NO_{10}$ (627.74). White amorphous solid, $[\alpha]_D^{25} = -25.0^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(61 \pm 2)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7603 Euphocharacin H**

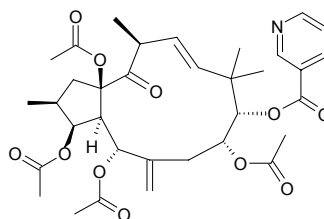
$C_{36}H_{47}NO_{11}$ (669.78). Colorless amorphous solid, $[\alpha]_D^{25} = -17.27^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(62 \pm 4)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7604 Euphocharacin I**

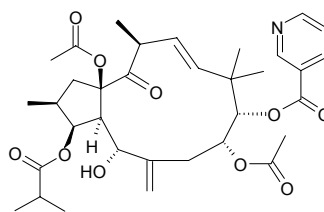
$C_{35}H_{45}NO_{11}$ (655.75). Colorless amorphous solid, $[\alpha]_D^{25} = -22.0^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(123 \pm 3)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7605 Euphocharacin J**

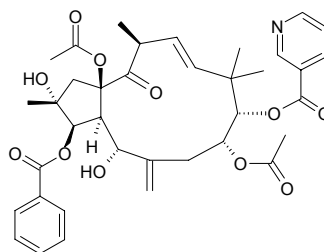
$C_{34}H_{43}NO_{11}$ (641.72). Colorless amorphous solid, $[\alpha]_D^{25} = -46.0^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(62 \pm 2)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7606 Euphocharacin K**

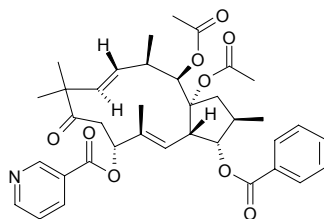
$C_{34}H_{45}NO_{10}$ (627.74). Colorless amorphous solid, $[\alpha]_D^{25} = -19.33^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(47 \pm 5)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

**7607 Euphocharacin L**

$C_{37}H_{43}NO_{11}$ (677.76). Colorless amorphous solid, $[\alpha]_D^{25} = -40.0^\circ$ ($c = 0.1$, $CHCl_3$). **Pharm:** Cancer cell P-Glycoprotein inhibitor (cellular P-glycoprotein-mediated daunomycin efflux, InRt = $(79 \pm 4)\%$), relative standard Cyclosporin A(CsA) InRt = 100%). **Source:** DI ZHONG HAI DA JI *Euphorbia characias* (whole herb). **Ref:** 5003.

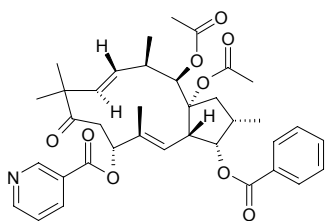
**7608 Euphoheliosnoid A**

$C_{37}H_{43}NO_9$ (645.76). Colorless oil, $[\alpha]_D^{20} = +19^\circ$ ($c = 1.36$, $CHCl_3$). **Source:** ZE QI *Euphorbia helioscopia* (whole herb). **Ref:** 5076.

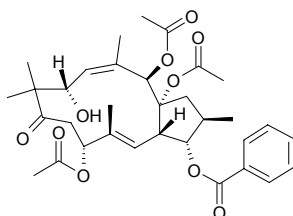


7609 Euphoheliosnoid B

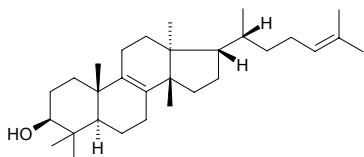
$C_{37}H_{43}NO_9$ (645.76). Colorless oil, $[\alpha]_D^{20} = +25^\circ$ ($c = 1.00$, $CHCl_3$). Source: ZE QI *Euphorbia helioscopia* (whole herb). Ref: 5076.

**7610 Euphoheliosnoid C**

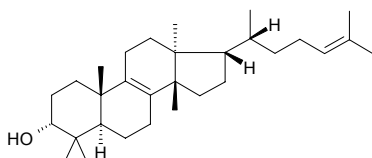
$C_{33}H_{42}O_{10}$ (598.70). Colorless oil, $[\alpha]_D^{20} = +33^\circ$ ($c = 0.58$, $CHCl_3$). Source: ZE QI *Euphorbia helioscopia* (whole herb). Ref: 5076.

**7611 Euphol**

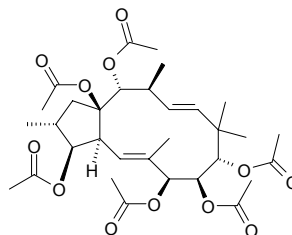
Euphadienol; Eupha-8,24-dien-3 β -ol [514-47-6] $C_{30}H_{50}O$ (426.73). mp 116°C. Pharm: Antihypertensive (anesthetic dog, iv, 0.31~10mg/kg, blood pressure is lowered by 20~30mmHg to 50~93mmHg for 0.75~4.5 hours, ED_{50} (iv) = 2.18mg/Kg); cytotoxic (P_{388} , $ED_{50} = 2.4\mu g/mL$); antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%)^[4606]. Source: BA WANG BIAN *Euphorbia royleana*, GAN SUI *Euphorbia kansui*, HUO YANG LE *Euphorbia antiquorum* (latex: yield = 0.38%fw)^[4606], XI YE DA JI *Euphorbia esula* var. *cyparissoides*. Ref: 6, 1812, 1813, 4606.

**7612 α -Euphol**

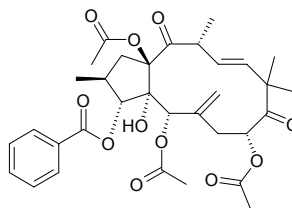
$C_{30}H_{50}O$ (426.73). Source: GAN SUI *Euphorbia kansui* (dried root). Ref: 4690.

**7613 Euphobubescene**

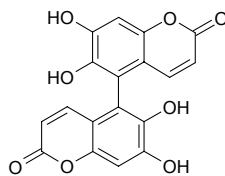
3 β ,7 β ,8 β ,9 α ,14 α ,15 β -Hexaacetoxy-2 β H-jatropha-5E,11E-diene $C_{32}H_{46}O_{12}$ (622.72). White amorphous powder, $[\alpha]_D^{25} = -139^\circ$ ($c = 0.14$, $CHCl_3$). Pharm: Cytotoxic (*in vitro* MCF7 cell lines, $GI_{50} = (72.0\pm 5.8)\mu mol/L$, Doxorubicin, $GI_{50} = (42.8\pm 8.2)\mu mol/L$; NCI-H460 cell lines, $GI_{50} = (40.9\pm 0.8)\mu mol/L$, Doxorubicin, $GI_{50} = (94.0\pm 8.7)\mu mol/L$; SF268 cell lines, $GI_{50} > 100\mu mol/L$, Doxorubicin, $GI_{50} = (93.0\pm 7.0)\mu mol/L$). Source: DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). Ref: 4949.

**7614 Euphobubescenol**

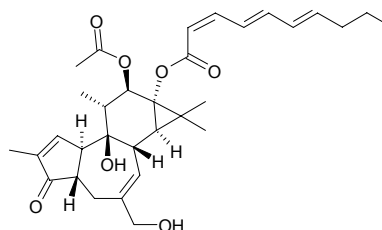
5 α ,8 α ,15 β -Triacetoxy-3 α -benzoyloxy-4 α -hydroxy-9,14-dioxo-13 β H-jatropha-6(17),11E-diene $C_{33}H_{40}O_{11}$ (612.68). White amorphous powder, $[\alpha]_D^{25} = +29^\circ$ ($c = 0.12$, $CHCl_3$). Pharm: Cytotoxic (*in vitro* MCF7, $GI_{50} = (68.6\pm 3.2)\mu mol/L$, Doxorubicin, $GI_{50} = (42.8\pm 8.2)\mu mol/L$; NCI-H460, $GI_{50} = 75\mu mol/L$, Doxorubicin, $GI_{50} = (94.0\pm 8.7)\mu mol/L$; SF268, $GI_{50} > 100\mu mol/L$, Doxorubicin, $GI_{50} = (93.0\pm 7.0)\mu mol/L$). Source: DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). Ref: 4949.

**7615 Euphorbetin**

[35897-99-5] $C_{18}H_{10}O_8$ (354.28). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 6.

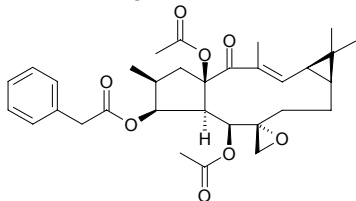
**7616 Euphorbia factor Ti₂**

$C_{32}H_{42}O_7$ (538.69). Pharm: Irritant. Source: LU YU SHU *Euphorbia tirucalli*. Ref: 658.

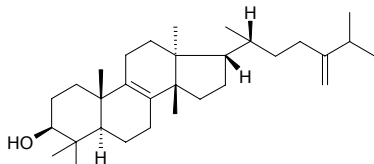


7617 Euphorbiasteroid

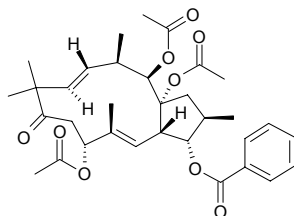
5,10-Diacetyl-6,20-epoxy-3-phenyl-acetyllythyrol $C_{32}H_{40}O_8$ (552.67). mp 199.5°C. **Pharm:** Laxative. **Source:** QIAN JIN ZI *Euphorbia lathyris*, XUE TONG *Macaranga tanarius*. **Ref:** 6, 661, 5501.

**7618 Euphorbol**

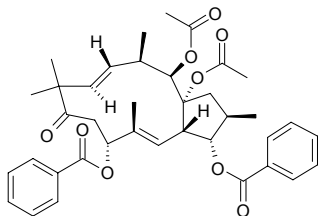
α -Euphorbol [566-14-3] $C_{31}H_{52}O$ (440.76). Needles, mp 123~126°C, mp 127~128°C, $[\alpha]_D^{25} = -1.0^\circ$ ($c = 0.20$). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** BA WANG BIAN *Euphorbia royleana*, GAN SUI *Euphorbia kansui*, HUO YANG LE *Euphorbia antiqorum* (latex). **Ref:** 6, 4606.

**7619 Euphoscopin B**

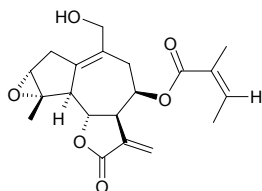
$C_{33}H_{42}O_9$ (598.706). **Source:** ZE QI *Euphorbia helioscopia* (whole herb). **Ref:** 5076.

**7620 Euphoscopin C**

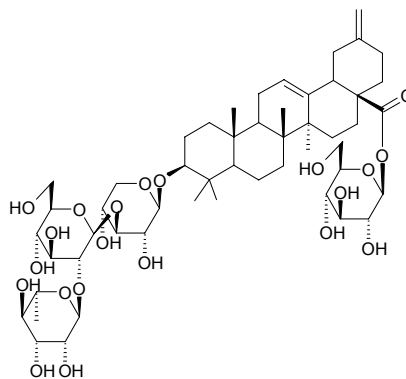
$C_{38}H_{44}O_9$ (644.77). **Source:** ZE QI *Euphorbia helioscopia* (whole herb). **Ref:** 5076.

**7621 Euponin**

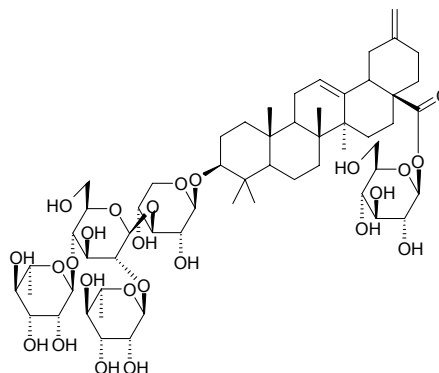
[70469-59-9] $C_{20}H_{24}O_6$ (360.41). **Pharm:** Larvacide (insect larva growth inhibitor). **Source:** CHENG GAN CAO *Eupatorium japonicum*. **Ref:** 658.

**7622 Eupteleasaponin I**

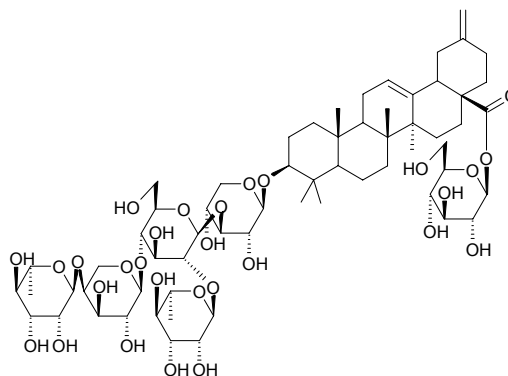
$C_{52}H_{82}O_{21}$ (1043.22). **Source:** DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). **Ref:** 3537.

**7623 Eupteleasaponin II**

$C_{58}H_{92}O_{25}$ (1189.36). **Source:** DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). **Ref:** 3537.

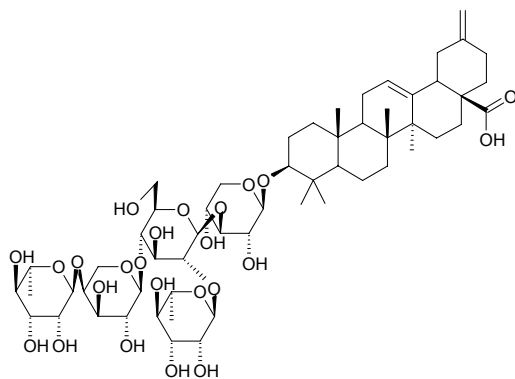
**7624 Eupteleasaponin III**

$C_{63}H_{100}O_{29}$ (1321.48). **Source:** DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). **Ref:** 3537.

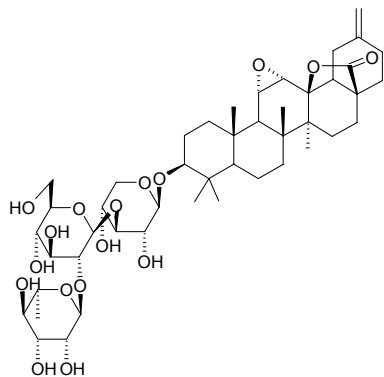


7625 Eupteleasaponin IV

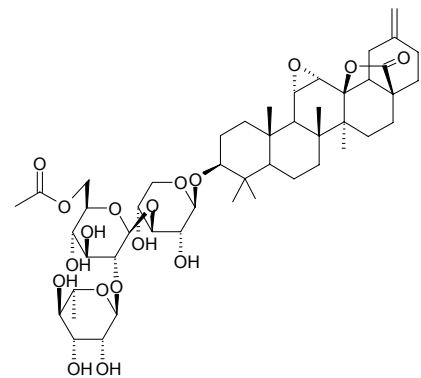
$C_{57}H_{90}O_{24}$ (1159.34). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7626 Eupteleasaponin V**

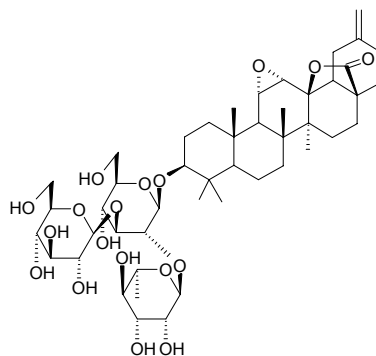
$C_{46}H_{70}O_{17}$ (895.06). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7627 Eupteleasaponin V acetate**

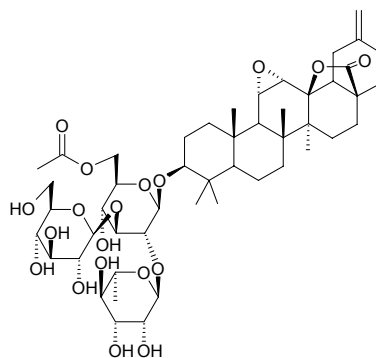
$C_{48}H_{72}O_{18}$ (937.10). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7628 Eupteleasaponin VI**

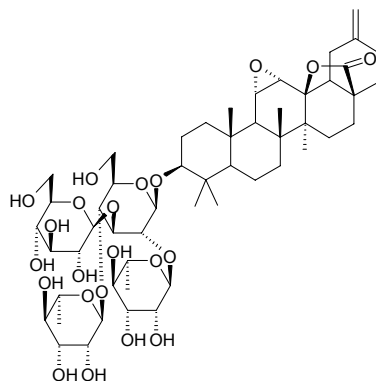
Eupteleogenin 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)-[β -*D*-glucopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranoside $C_{47}H_{72}O_{18}$ (925.09). Colorless fine crystals (CHCl₃-MeOH), mp 184–187°C, $[\alpha]_D^{25} = +46.8^\circ$ ($c = 0.1$, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7629 Eupteleasaponin VI acetate**

Eupteleogenin 3-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 3)]-6'-*O*-acetyl- β -*D*-glucopyranoside $C_{49}H_{74}O_{19}$ (967.12). Colorless fine crystals (CHCl₃-MeOH), mp 180–184°C, $[\alpha]_D^{26} = +31.9^\circ$ ($c = 0.1$, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

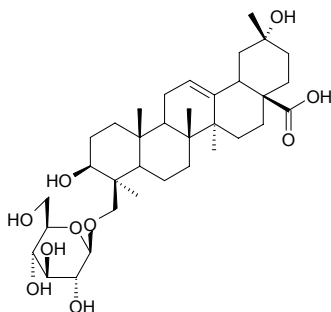
**7630 Eupteleasaponin VII**

Eupteleogenin 3-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)][β -*D*-galactopyranosyl(1 \rightarrow 3)][α -*L*-rhamnopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranoside $C_{53}H_{82}O_{22}$ (1071.23). Colorless fine crystals (CHCl₃-MeOH), mp 168–172°C, $[\alpha]_D^{26} = +14.6^\circ$ ($c = 0.1$, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

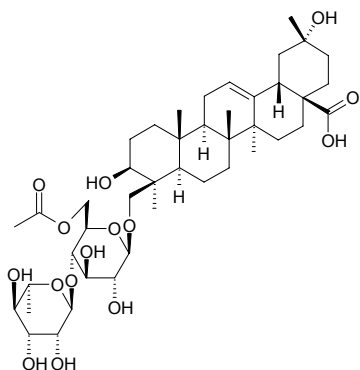


7631 Eupteleasaponin VIII

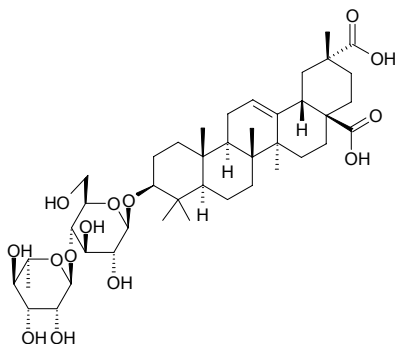
3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 24-*O*- β -D-glucopyranoside C₃₅H₅₆O₁₀ (636.83). Colorless fine crystals (CHCl₃-MeOH), mp 199~201°C, [α]_D²⁶ = +73.9° (*c* = 0.1, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7632 Eupteleasaponin IX**

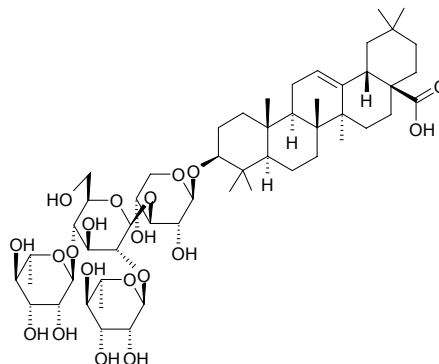
3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 24-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 4)]-6'-*O*-acetyl- β -D-glucopyranoside C₄₃H₆₈O₁₅ (825.01). Colorless fine crystals (CHCl₃-MeOH), mp 221~225°C, [α]_D²⁶ = +34.9° (*c* = 0.1, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7633 Eupteleasaponin X**

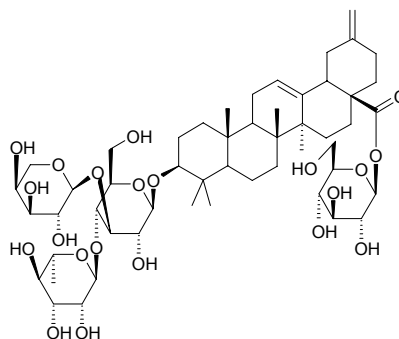
Serratagenic acid 3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranoside C₄₂H₆₆O₁₄ (794.99). Colorless fine crystals (CHCl₃-MeOH), mp 237~239°C, [α]_D²⁶ = +12.1° (*c* = 0.1, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7634 Eupteleasaponin XI**

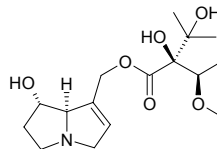
Oleanolic acid 3-*O*-{ α -L-rhamnopyranosyl(1 \rightarrow 2)-[α -L-rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranosyl(1 \rightarrow 3)}- β -D-xylopyranoside C₅₃H₈₆O₂₀ (1043.26). Colorless fine crystals (CHCl₃-MeOH), mp 241~245°C, [α]_D²⁶ = +116° (*c* = 0.1, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

**7635 Eupteleasaponin XII**

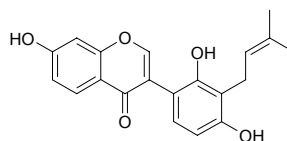
8-*O*- β -D-Glucopyranosylakebonic acid 3-*O*- α -L-arabinopyranosyl(1 \rightarrow 3)-[α -L-rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranoside C₅₂H₈₂O₂₁ (1043.22). Colorless fine crystals (CHCl₃-MeOH), mp 175~177°C, [α]_D²⁵ = +33.9° (*c* = 0.1, MeOH). Source: DUO XIONG RUI LING CHUN MU *Euptelea polyandra* (fresh leaf). Ref: 3537.

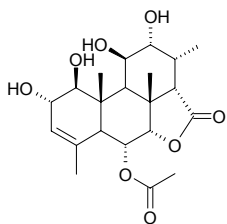
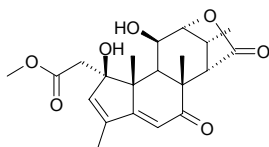
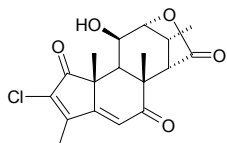
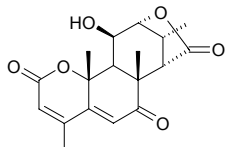
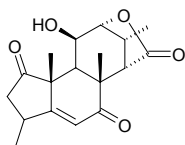
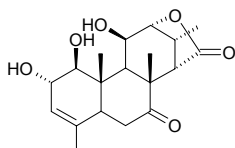
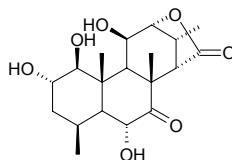
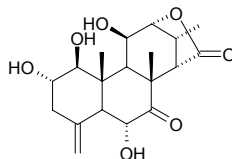
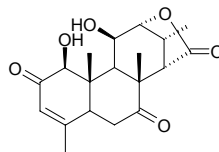
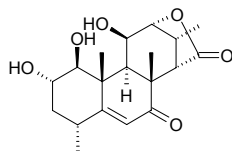
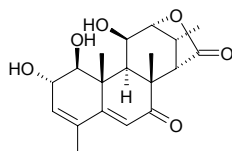
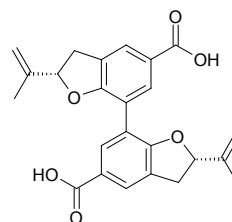
**7636 Europine**

[570-19-4] C₁₆H₂₇NO₆ (329.40). Pharm: Anticholinergic (rat); hepatotoxic. Source: OU ZHOU TIAN JIE CAI *Heliotropium europaeum*, YUAN YE TIAN JIE CAI *Heliotropium rotundifolium*. Ref: 658.

**7637 Eurycarpin A**

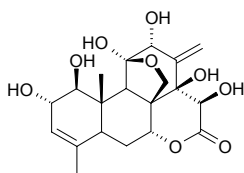
7,2',4'-Trihydroxy-(3,3-dimethylallyl)isoflavone [166547-20-2] C₂₀H₁₈O₅ (338.36). Powder (methanol), mp 85~87°C. Source: HUANG GAN CAO *Glycyrrhiza kansuensis*. Ref: 379.



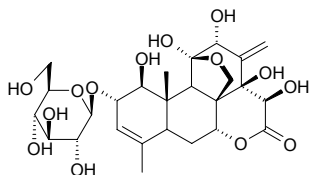
7638 EurycolactoneC₂₁H₃₀O₈ (410.47). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7639 Eurycolactone A**C₂₁H₂₆O₇ (390.44). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7640 Eurycolactone B**C₁₈H₁₉ClO₅ (350.38). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7641 Eurycolactone C**C₁₈H₂₀O₆ (332.36). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7642 Eurycolactone D**C₁₈H₂₂O₅ (318.37). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7643 Eurycolactone E**C₁₉H₂₆O₆ (350.42). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7644 Eurycolactone F**C₁₉H₂₈O₇ (368.43). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7645 Eurycolactone G**C₁₉H₂₆O₇ (366.41). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7646 Eurycomalactone**C₁₉H₂₄O₆ (348.40). [Pharm](#): Cytotoxic (A549 cancer cells, remarkable activity; MCF7 cancer cells, IC₅₀ < 2.5 μg/mL); antileishmanial (IC₅₀ = 0.21 μg/mL, control Thalloquin, IC₅₀ = 0.21 μg/mL). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7647 Eurycomalide A**C₁₉H₂₆O₆ (350.42). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7648 Eurycomalide B**C₁₉H₂₄O₆ (348.40). [Source](#): *Eurycoma* sp. [Ref](#): 4556.**7649 Eurycomalin A**C₂₄H₂₂O₆ (406.44). [Source](#): *Eurycoma* sp. [Ref](#): 4556.

7650 Eurycomanol

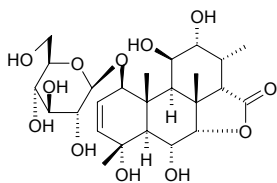
$C_{20}H_{26}O_9$ (410.42). **Pharm:** Cytotoxic (KB cells, $IC_{50} = 3.6\mu g/mL$)^[4556], antileishmanial ($IC_{50} = 0.28\mu g/mL$, control Thallioquin, $IC_{50} = 0.21\mu g/mL$). **Source:** *Eurycoma* sp. **Ref:** 4556.

**7651 Eurycomanol-2-O-β-glucopyranoside**

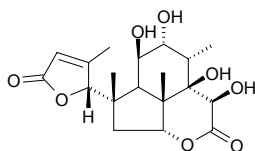
$C_{26}H_{36}O_{14}$ (572.57). **Pharm:** Antileishmanial (thallioquin-resistance *Leishmania* sp., $IC_{50} = 0.389\sim 3.498\mu mol/L$, control Thallioquin, $IC_{50} = 0.323\sim 0.774\mu mol/L$). **Source:** *Eurycoma* sp. **Ref:** 4556.

**7652 Eurycomaoside**

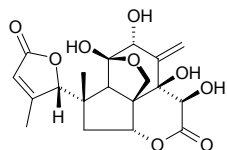
$C_{25}H_{38}O_{12}$ (530.57). $[\alpha]_D^{25} = -10.9^\circ$ ($c = 0.5$, MeOH). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root). **Ref:** 4400.

**7653 Eurylactone A**

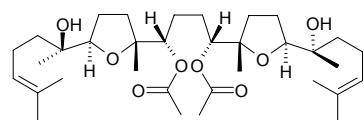
$C_{19}H_{26}O_8$ (382.41). **Source:** *Eurycoma* sp. **Ref:** 4556.

**7654 Eurylactone B**

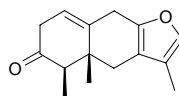
$C_{19}H_{22}O_9$ (394.38). **Source:** *Eurycoma* sp. **Ref:** 4556.

**7655 Eurylene**

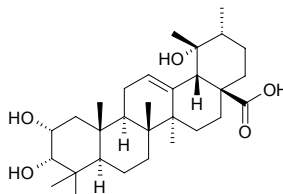
$C_{34}H_{58}O_8$ (594.84). **Pharm:** Cytotoxic (KB cells, gtdrolysis product 11-Deacetyleurylene $IC_{50} = 0.33\mu g/mL$). **Source:** *Eurycoma* sp. **Ref:** 4556.

**7656 Euryopsin-3-one**

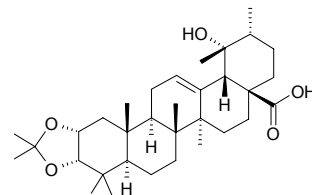
$C_{15}H_{18}O_2$ (230.31). Colorless oil. **Source:** HUANG SE QIAN LI GUANG *Senecio flavus*. **Ref:** 2409.

**7657 Euscaphic acid**

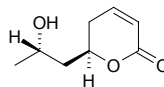
2 $\alpha,3\alpha,19\alpha$ -Trihydroxyurs-12-en-28-oic acid [53155-25-2] $C_{30}H_{48}O_5$ (488.71). Colorless powder crystals, mp 269~271°C, $[\alpha]_D^{18} = -22.4^\circ$ ($c = 0.05$, pyridine). **Pharm:** Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, $IC_{50} = 28.8\mu mol/L$; control Cyclosporin A, $IC_{50} = 0.012\mu mol/L$)^[3064]; cytotoxic inactive (HSC-2, $IC_{50} > 200\mu g/mL$; HGF, $IC_{50} > 200\mu g/mL$)^[5160]. **Source:** DI YU *Sanguisorba officinalis*, JIN YING ZI *Rosa laevigata*, JUAN MAO QIANG WEI *Rosa sericea*, PI PA HE *Eriobotrya japonica*, SAN YE SHU WEI CAO *Salvia trijuga*, TAI WAN PI PA *Eriobotrya deflexa* (leaf)^[3064], TUN XING GUO *Pygeum topengii*. **Ref:** 447, 570, 592, 643, 3064, 5160.

**7658 Euscaphic acid 2,3-monoacetonide**

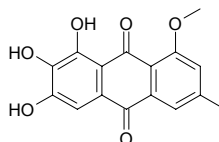
$C_{33}H_{52}O_5$ (528.78). White acicular crystals, mp 188~190°C acetone-petroleum ether). **Source:** JUAN MAO QIANG WEI *Rosa sericea*. **Ref:** 676.

**7659 Euscapholide**

7-Hydroxy-2-octen-5-olide $C_8H_{12}O_3$ (156.18). **Pharm:** Anti-inflammatory (remarkably inhibits inflammation induced by *k*-carrageenan)^[4546]. **Source:** YE YA CHUN *Euscaphis japonica* (twig and leaf). **Ref:** 4546.

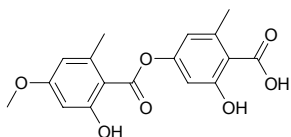
**7660 Evariquinone**

1,2,3-Trihydroxy-6-methyl-8-methoxyanthraquinone $C_{16}H_{12}O_6$ (300.27). mp 238~242°C (sublimation). **Source:** BIAN SE HE KE BAO *Emericella varicolor*. **Ref:** 3386.

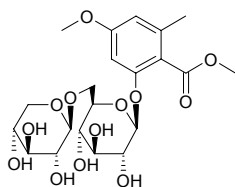


7661 Evernic acid

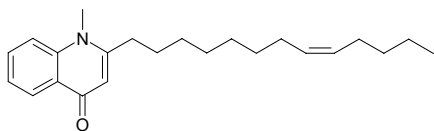
[537-09-7] C₁₇H₁₆O₇ (332.31). mp 169.6~170.1°C. Source: XIAO LA BA *Cladonia verticillata*. Ref: 6.

**7662 Evernic acid methyl ester 2-O-β-xylopyranosyl-(1→6)-β-glucopyranoside**

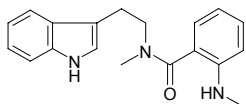
C₂₁H₃₀O₁₃ (490.47). Amorphous powder, [α]_D²⁰ = -41.2° (c = 0.80, MeOH). Source: NAO YANG HUA *Rhododendron molle*. Ref: 5396.

**7663 Evocarpine**

[15266-38-3] C₂₃H₃₃NO (339.53). Note: evocarpine is a mixture, and the following structure is its main component. Pharm: DGAT inhibitor (IC₅₀ = 8.1 μg/mL)^[4943], leukotriene biosynthesis inhibitor (hmn polymorphonuclear granulocytes, IC₅₀ = 14.6 μmol/L, zileuton, IC₅₀ = 10.4 μmol/L)^[5031]. Source: WU ZHU YU *Evodia rutaecarpa* (fruit). Ref: 2, 4943, 5031.

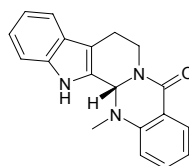
**7664 Evodiamide**

C₁₉H₂₁N₃O (307.40). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 347, 877.

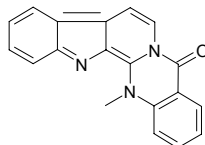
**7665 Evodiamine**

8,13,13b,14-Tetrahydro-14-methylindolo[2',3':3,4]pyrido[2,1b]quinazolin-5(7H)-one [518-17-2] C₁₉H₁₇N₃O (303.37). Yellow lamellar crystals (ethanol), mp 278°C. [α]_D¹⁵ = +352° (acetone), mp (+) 270~272°C. Pharm: Analgesic (has both stimulatory and desensitizing effects on sensory nerves, as capsaicin does)^[5394]; diuretic; raises body temperature; induces sweating; cytotoxic (induces apoptosis of HeLa cell); CGRP stimulator (Calcitonin gene-related peptide, CGRP, protects the myocardium against ischemia-reperfusion injury)^[4088]; a detail study on protective effects of evodiamine on myocardial ischemia-reperfusion injury in rats (Rats were pretreated with evodiamine 10min before the experiment, and then the left main coronary artery of rat hearts was subjected to 60min occlusion followed by 180min reperfusion. Infarct size, the activity of serum creatine kinase, serum concentrations of TNF-α and plasma concentrations of CGRP were measured. Pretreatment with evodiamine (30 or 60 μg/kg, iv) markedly increased the content of CGRP in plasma concomitantly with a significant reduction in infarct size, the activity of serum creatine kinase, and TNF-α

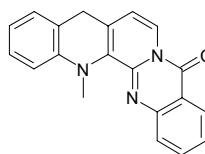
level, and the effects of evodiamine were completely abolished by capsazepine (5.0mg/kg, sc), a competitive vanilloid receptor antagonist. These results suggest that evodiamine exerts a protection against myocardial ischemia-reperfusion injury in rats and that the protective effects of evodiamine are related to stimulation of CGRP release via activation of vanilloid receptors)^[4088]. Source: BO SHI WU ZHU YU *Evodia rutaecarpa* var. *bodinieri* (dried and almost ripe fruit: content scope of 4 origins = 0.117%~1.229%, mean content = 0.544%)^[5508], HUA NAN WU ZHU YU *Evodia austrosinensis* (dried and almost ripe fruit: content = 0.12%)^[5508], SHI HU⁽³⁾ *Evodia rutaecarpa* var. *officinalis* (dried and almost ripe fruit: content scope of 14 origins = 0.093%~1.242%, mean content = 0.503%)^[5508], WU ZHU YU *Evodia rutaecarpa* (dried and almost ripe fruit: content scope of 14 origins = 0.203%~3.221%, mean content = 1.200%)^[5508], YI HUA WU ZHU YU *Evodia baberi* (dried and almost ripe fruit: content scope of 2 origins = 0.114%~0.152%, mean content = 0.133%)^[5508]. Ref: 2, 6, 347, 661, 1643, 4088, 5394, 5501, 5508.

**7666 Evodianine**

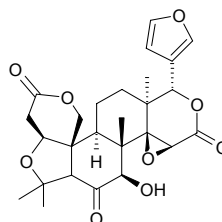
C₁₉H₁₃NO₃ (299.33). Pale yellow crystals, mp 185~187°C (CHCl₃), [α]_D²³ = 0° (c = 0.5, CHCl₃). Source: WU ZHU YU *Evodia rutaecarpa* (fruit). Ref: 4848.

**7667 Evodioxine**

C₂₀H₁₅N₃O (313.36). Yellow needles, mp 175~176°C, [α]_D²³ = 0° (c = 0.5, CHCl₃). Source: WU ZHU YU *Evodia rutaecarpa* (fruit). Ref: 4914.

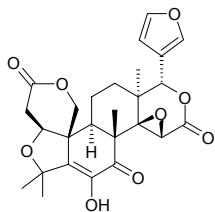
**7668 Evodinone**

Rutaevin [33237-37-5] C₂₆H₃₀O₉ (486.52). mp 295~297°C (dec). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 6.

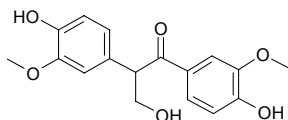


7669 Evodol

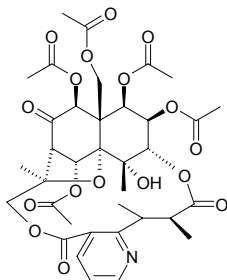
Limonindiosphenol [22318-10-1] C₂₆H₂₈O₉ (484.51). mp 280~281°C. Source: BAI XIAN PI *Dictamnus dasycarpus*, WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 660, 1521.

**7670 Evofolin B**

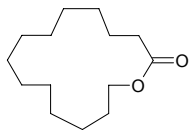
[168254-96-4] C₁₇H₁₈O₆ (318.33). Yellow oil, [α]_D²⁶ = +16.7° (c = 0.30, CH₃OH). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: HAI NAN JIAN MU *Dysoxylum hainanense*, *Couepia ulei*. Ref: 2140, 5038.

**7671 Evonine**

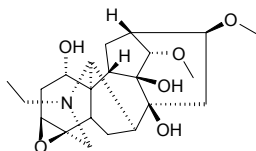
C₃₆H₄₃NO₁₇ (761.74). mp 149~153°C. Source: GUI JIAN YU *Euonymus alatus* (the compound was isolated from the plant by H.Wada, et al. in 1971). Ref: 5505.

**7672 Exaltolide**

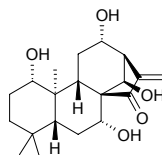
Oxacyclohexadecan-2-one [106-02-5] C₁₅H₂₈O₂ (240.39). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**7673 Excelsine**

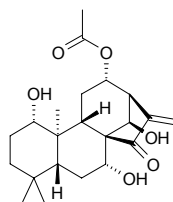
9β-Hydroxy-monticamine [41645-62-9] C₂₂H₃₃NO₆ (407.51). Colorless quadratus crystals, mp 87~89°C (acetone); 103~105°C. Source: JI LIN WU *Aconitum kirinense*, ZI HUA GAO WU *Aconitum excelsum*. Ref: 1521, 2515.

**7674 Excisanin A**

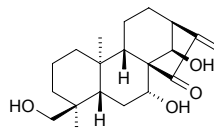
1α,7α,12α,14β-Tetrahydroxy-*ent*-kaur-16-en-15-one C₂₀H₃₀O₅ (350.46). mp 262~264°C, [α]_D²⁰ = -27.7° (c = 1.01, C₅H₅N). Pharm: Cytotoxic (*in vitro*, P₃₈₈, ED₅₀ = 1.11 μg/mL)^[3012]. Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.0069%dw). Ref: 3012, 4067.

**7675 Excisanin B**

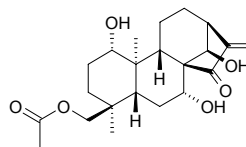
1α,7α,14β-Trihydroxy-12α-acetoxy-*ent*-kaur-16-en-15-one C₂₂H₃₂O₆ (392.50). mp 240~243°C, [α]_D²⁰ = -13.9° (c = 1.00, C₅H₅N). Pharm: Cytotoxic (*in vitro*, P₃₈₈, ED₅₀ = 0.63 μg/mL)^[3012]. Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.0013%dw). Ref: 3012, 4067.

**7676 Excisanin C**

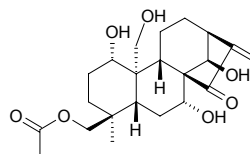
C₂₀H₃₀O₄ (334.46). [α]_D²¹ = -112.7° (c = 0.15, MeOH). Source: WEI YE XIANG CHA CAI *Rabdosia excisa*. Ref: 4067.

**7677 Excisanin D**

C₂₂H₃₂O₆ (392.50). mp 140~142°C, [α]_D = -56° (c = 0.42, MeOH). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 0.72 μg/mL)^[3012]. Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.0001%dw). Ref: 3012, 4067.

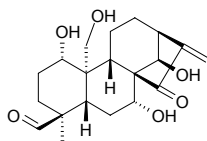
**7678 Excisanin E**

C₂₂H₃₂O₇ (408.50). Yellow powder, [α]_D = -46.1° (c = 0.64, MeOH). Source: WEI YE XIANG CHA CAI *Rabdosia excisa*. Ref: 4067.

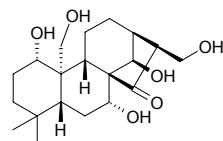


7679 Excisanin F

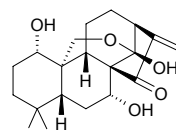
$C_{20}H_{28}O_6$ (364.44). $[\alpha]_D^{20} = +27.3^\circ$ ($c = 0.55$, MeOH). Source: WEI YE XIANG CHA CAI *Rabdosia excisa*. Ref: 4067.

**7680 Excisanin G**

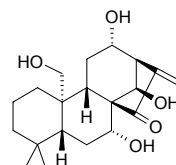
$C_{20}H_{32}O_6$ (368.47). mp 214–216°C, $[\alpha]_D^{20} = -100.8^\circ$ ($c = 0.51$, MeOH). Source: WEI YE XIANG CHA CAI *Rabdosia excisa*. Ref: 4067.

**7681 Excisanin H**

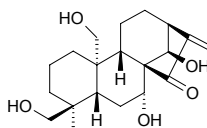
14 α ,20-Epoxy-1 α ,7 α ,14 β -trihydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{28}O_5$ (348.44). Colorless powder (MeOH), mp 206–207°C, $[\alpha]_D = -87.9^\circ$ ($c = 0.07$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.96\mu\text{g/mL}$). Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.00007%dw). Ref: 3012.

**7682 Excisanin I**

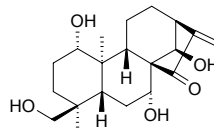
7 α ,12 α ,14 β ,20-Tetrahydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{30}O_5$ (350.46). Colorless powder (MeOH), mp 142–144°C, $[\alpha]_D = -110.3^\circ$ ($c = 0.06$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.87\mu\text{g/mL}$). Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.00009%dw). Ref: 3012.

**7683 Excisanin J**

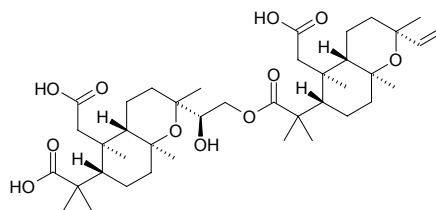
7 α ,14 β ,18,20-Tetrahydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{30}O_5$ (350.46). Colorless powder (MeOH), mp 116–118°C, $[\alpha]_D = -125.0^\circ$ ($c = 0.17$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.92\mu\text{g/mL}$). Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.00009%dw). Ref: 3012.

**7684 Excisanin K**

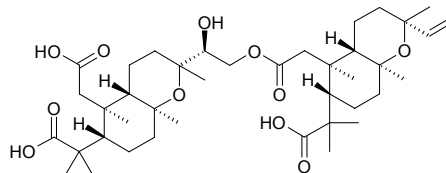
1 α ,7 α ,14 β ,18-Tetrahydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{30}O_5$ (350.46). Colorless powder (MeOH), mp 128–129°C, $[\alpha]_D = -109.2^\circ$ ($c = 0.23$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.92\mu\text{g/mL}$). Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.00013%dw). Ref: 3012.

**7685 Excoecarin R₁**

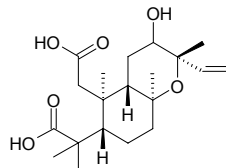
$C_{40}H_{64}O_{11}$ (720.95). Source: HAI QI *Excoecaria agallocha* (resinous resinous wood: yield = 0.0019%). Ref: 4674.

**7686 Excoecarin R₂**

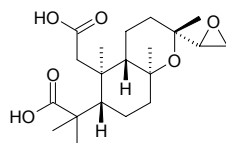
$C_{40}H_{64}O_{11}$ (720.95). Source: HAI QI *Excoecaria agallocha* (resinous wood: yield = 0.0015%). Ref: 4674.

**7687 Excoecarin S**

$C_{20}H_{32}O_6$ (368.47). Colorless needles (MeOH), mp 254–256°C, $[\alpha]_D^{26} = -47.2^\circ$ ($c = 0.9$, MeOH). Source: HAI QI *Excoecaria agallocha* (resinous wood). Ref: 3461.

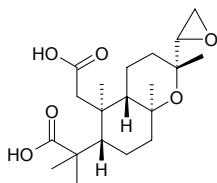
**7688 Excoecarin T₁**

$C_{20}H_{32}O_6$ (368.47). As dimethyl ester: colorless needles (aqueous MeOH), mp 102–103°C, $[\alpha]_D^{30} = -8.1^\circ$ ($c = 1.0$, CHCl_3). Source: HAI QI *Excoecaria agallocha* (resinous wood). Ref: 3461.

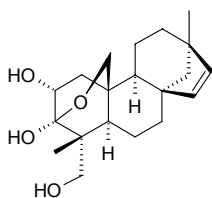


7689 Excoecarin T₂

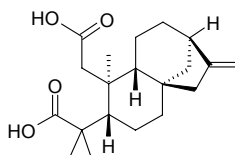
C₂₀H₃₂O₆ (368.47). As dimethyl ester: colorless needles (aqueous MeOH), mp 130~133°C, $[\alpha]_D^{30} = -14.7^\circ$ ($c = 0.5$, CHCl₃). Source: HAI QI *Excoecaria agallocha* (resinous wood). Ref: 3461.

**7690 Excoecarin V₁**

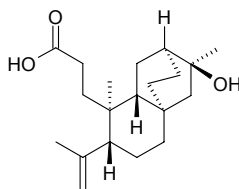
2 α ,3 α ,18-Trihydroxy-3 β ,20-epoxybeyer-15-ene C₂₀H₃₀O₄ (334.46). Colorless prisms (MeOH), mp 177~179°C, $[\alpha]_D^{26} = -19.3^\circ$ ($c = 0.5$, MeOH). Source: HAI QI *Excoecaria agallocha* (fresh stem). Ref: 4386.

**7691 Excoecarin V₂**

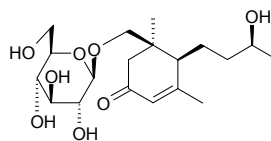
ent-2,3-Secokaur-16-en-2,3-dioic acid C₂₀H₃₀O₄ (334.46). Source: HAI QI *Excoecaria agallocha* (fresh stem). Ref: 4386.

**7692 Excoecarin V₃**

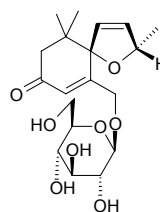
ent-3,4-Seco-16 α -hydroxyatis-4(19)-en-3-oic acid C₂₀H₃₂O₃ (320.48). Colorless plates (MeOH), mp 101~102°C, $[\alpha]_D^{28} = -53.7^\circ$ ($c = 1.0$, MeOH). Source: HAI QI *Excoecaria agallocha* (fresh stem). Ref: 4386.

**7693 Excoecarioside A**

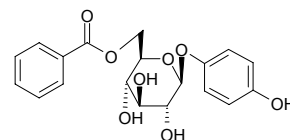
C₁₉H₃₂O₈ (388.46). Amorphous powder, $[\alpha]_D^{25} = -10.3^\circ$ ($c = 1.36$, MeOH). Source: LU BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*. Ref: 4543.

**7694 Excoecarioside B**

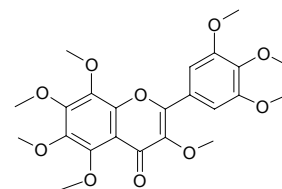
C₁₉H₂₈O₈ (384.43). Syrup, $[\alpha]_D^{25} = +29.3^\circ$ ($c = 0.82$, MeOH). Source: LU BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*. Ref: 4543.

**7695 Eximine**

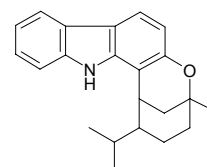
C₁₉H₂₀O₈ (376.37). Source: YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). Ref: 2583.

**7696 Exoticin**

3,5,6,7,8,3',4',5'-Octamethoxyflavone [13364-94-8] C₂₃H₂₆O₁₀ (462.46). mp 124~125°C. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 6, 11.

**7697 Exozoline**

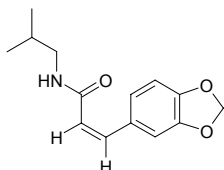
[70561-79-4] C₂₂H₂₅NO (319.45). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.



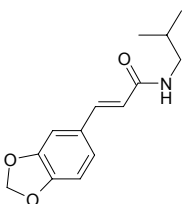
F

7701 cis-Fagaramide

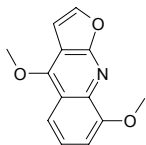
$C_{14}H_{17}NO_3$ (247.30). **Pharm:** Antioxidant (TLC-based assay, DPPH scavenger, MIQ = 10 μ g; control Quercetin, MIQ = 1 μ g). **Source:** *Fagara xanthoxyloides*. **Ref:** 5385.

**7702 trans-Fagaramide**

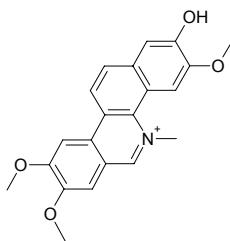
N-Isobutyl-3,4-methylenedioxybenzethenylamide $C_{14}H_{17}NO_3$ (247.30). **Pharm:** Antioxidant (TLC-based assay, DPPH scavenger, MIQ = 10 μ g; control Quercetin, MIQ = 1 μ g)^[5385]. **Source:** SHAN CI GU *Asarum sagittarioides*, *Fagara xanthoxyloides*. **Ref:** 660, 5385.

**7703 γ -Fagarine**

4,8-Dimethoxyfuro[2,3-*b*]quinoline [524-15-2] $C_{13}H_{11}NO_3$ (229.24). mp 142°C. **Pharm:** Antiarrhythmic (in clinic); antibacterial; antifungal; antispasmodic. **Source:** BAI XIAN PI *Dictamnus dasycarpus*, CHOU CAO *Ruta graveolens*, CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00038%dw)^[4774], GAO JIA SUO BAI XIAN *Dictamnus caucasicus*, HU JIAO HUA JIAO *Zanthoxylum piperitum*, MU⁽⁴⁾ JU *Aegle marmelos*, QI HAN NING HUA JIAO *Zanthoxylum tsihanimposa*, ZHU YE JIAO *Zanthoxylum planispinum*, ZHU YE JIAO GEN *Zanthoxylum planispinum*. **Ref:** 6, 658, 4774.

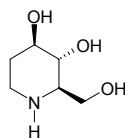
**7704 Fagaronine**

$C_{21}H_{20}NO_4$ (350.40). **Pharm:** Cytotoxic (binds to calf thymus DNA by intercalation and toxic to topoisomerases I and II)^[5369]. **Source:** *Fagara xanthoxyloides*. **Ref:** 1521, 5369.

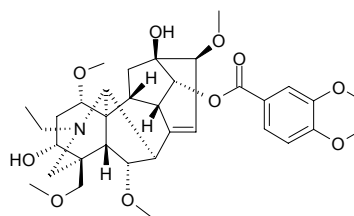
**7705 Fagomine**

3,4-Dihydroxy-2-piperidinemethanol [53185-12-9] $C_6H_{13}NO_3$ (147.18).

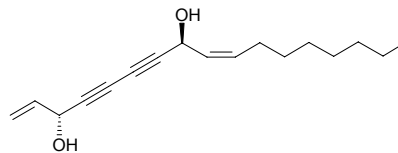
Pharm: Hypoglycemic (mus diabetes mellitus induced by SIZ, distinct effect)^[2170]; α -Glucosidase inhibitor (IC₅₀ = 15mmol/L)^[4161]. **Source:** SANG ZHI *Morus alba*. **Ref:** 2170, 4161.

**7706 Falaconitine**

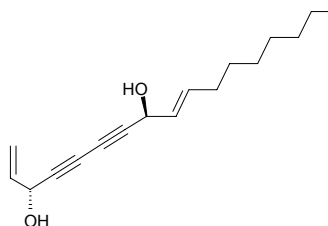
[62926-57-2] $C_{34}H_{47}NO_{10}$ (629.75). **Pharm:** Causes paralysis, paroxysmal spasm, convulsion and death (gpg); similar action with aconitine (small animals). **Source:** FA KANG WU TOU *Aconitum falconeri*. **Ref:** 658.

**7707 cis-Falcarindiol**

1,9Z-Heptadecadiene-4,6-diyne-3R,8S-diol [55297-87-5] $C_{17}H_{24}O_2$ (260.38). **Pharm:** Analgesic; plant antitoxin; antibacterial (*Staphylococcus aureus*, MIC = 2.2mg/mL; *Streptomyces scabies*, MIC = 1.5mg/mL; *Bacillus subtilis*, MIC = 1.4mg/mL; *Bacillus cereus*, MIC = 1.6mg/mL; *Pseudomonas aeruginosa*, MIC = 1.4mg/mL)^[5305]; antifungal (*Aspergillus niger*, MIC = 0.5mg/mL)^[5305]. **Source:** BEI SHA SHEN *Glehnia littoralis* (root without cortex: content = 0.146%)^[5508], CHOU A WEI *Ferula foetida* (root: yield = 0.00026%)^[4659], DIAN QIN *Sinodielsia yunnanensis* (root: yield = 2.90%), FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], HE SHI FENG *Daucus carota* (root), LI JIANG QIAN HU *Peucedanum govanianum* var. *bicolo*, LONG YAN DU HUO *Aralia fargesii*, NAN HE SHI *Daucus carota*, SONG YE FANG FENG *Seseli yunnanense*, *Niphogeton ternata*. **Ref:** 2, 549, 557, 571, 658, 4156, 4305, 4659, 5305, 5508.

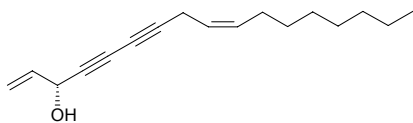
**7708 trans-Falcarindiol**

1,9E-Heptadecadiene-4,6-diyne-3R,8S-diol; Falcarindiol $C_{17}H_{24}O_2$ (260.38). Brown oleaginous substance. **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 452.

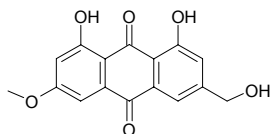


7709 Falcarinol

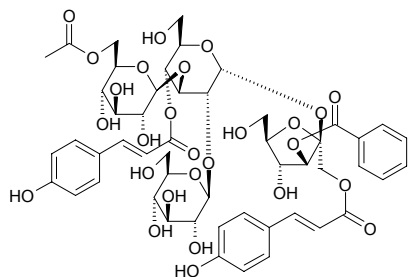
$C_{17}H_{24}O$ (244.38). Source: *Niphogeton ternata*. Ref: 4156.

**7710 Fallacinol**

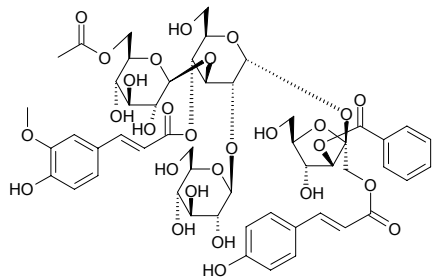
1,8-Dihydroxy-3-hydroxymethyl-6-methoxyanthraquinone [569-05-1]
 $C_{16}H_{12}O_6$ (300.27). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 2.

**7711 Fallaxose C**

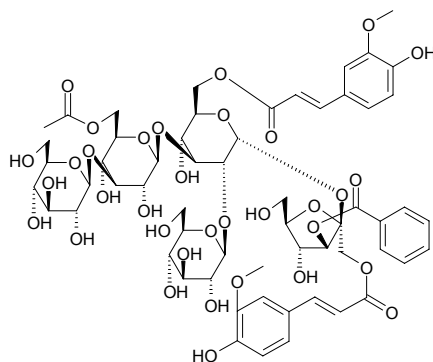
$C_{51}H_{60}O_{27}$ (1105.03). $[\alpha]_D = -6.8^\circ$. Source: JIA HUANG HUA YUAN ZHI
Polygala fallax [Syn. *Polygala aureocauda*]. Ref: 2184.

**7712 Fallaxose D**

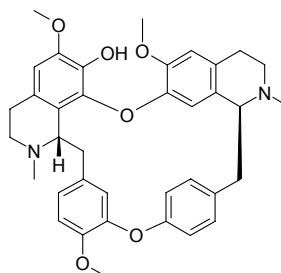
$C_{52}H_{62}O_{28}$ (1135.06). $[\alpha]_D = -6.5^\circ$. Source: JIA HUANG HUA YUAN ZHI
Polygala fallax [Syn. *Polygala aureocauda*]. Ref: 2184.

**7713 Fallaxose E**

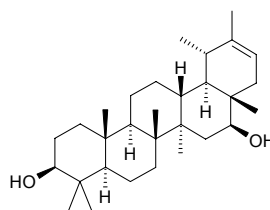
$C_{59}H_{74}O_{34}$ (1327.23). $[\alpha]_D = +16.1^\circ$. Source: JIA HUANG HUA YUAN ZHI
Polygala fallax [Syn. *Polygala aureocauda*]. Ref: 2184.

**7714 Fangchinoline**

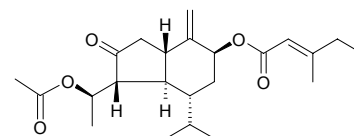
Demethyltetrandrine $C_{37}H_{40}N_2O_6$ (608.74). mp 237–238°C (acetone); mp 177–179°C (CH₃OH). Pharm: Cytotoxic (HeLa *in vitro*, ED₅₀ = 4.1 μg/mL); antihypertensive; platelet aggregation inhibitor (due to collagen); analgesic; anti-inflammatory (modulator of cytokine network: prevents integrin-mediated neutrophil adhesion and fMLP- or leukotriene B₄-induced transmigration, IC₅₀ = 1–5 μg/mL)^[4416]; IL-6 inhibitor (*in vitro*, IC₅₀ > 6 μmol/L)^[4416]; LD₅₀ (mus, ip) ≥ 50 mg/kg. Source: FANG JI *Stephania tetrandra* (dried root: mean content of 6 origins = 0.759%^[5508]), RU LAN *Stephania hernandifolia*. Ref: 2, 4, 5, 44, 658, 660, 4416, 5501, 5508.

**7715 Faradiol**

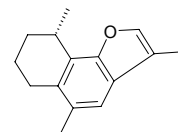
20-Taraxastene-3,16-diol [20554-95-4] $C_{30}H_{50}O_2$ (442.73). mp 236–237°C.
Source: KUAN DONG HUA *Tussilago farfara*. Ref: 1521.

**7716 Farfaratin**

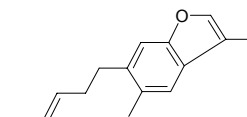
$C_{23}H_{34}O_5$ (390.52). White hyaloid crystals, mp 100–101°C. Source: KUAN DONG HUA *Tussilago farfara*. Ref: 145.

**7717 Farfugin A**

[36061-18-4] $C_{15}H_{18}O$ (214.31). Source: LIAN PENG CAO *Farfugium japonicum*. Ref: 6.

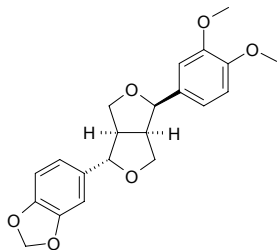
**7718 Farfugin B**

[36061-19-5] $C_{15}H_{18}O$ (214.31). Source: LIAN PENG CAO *Farfugium japonicum*. Ref: 6.

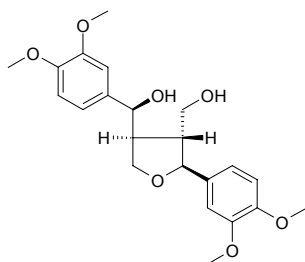


7719 Fargesin

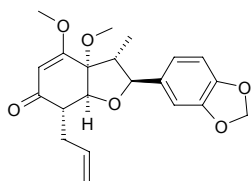
[31008-19-2] $C_{21}H_{22}O_6$ (370.41). Colorless rhombic crystals, mp 130.0–130.5°C (methanol), $[\alpha]_D^{22} = -111.7^\circ$ ($c = 0.57$, chloroform); mp 139°C. **Pharm:** Platelet aggregation inhibitor (strong, induced by PAF, $IC_{50} = 10\mu\text{mol/L}$, PAF receptor antagonist, $ED_{50} = 1.3\mu\text{mol/L}$); phyto-growth inhibitor ($100\mu\text{g/mL}$, *Amaranthus hypochondriacus*, $\text{InRt} = (92.1 \pm 1.8)\%$; *E. crusgalli*, $\text{InRt} = (83.7 \pm 2.2)\%$)^[5233]. **Source:** CI HUA JIAO *Zanthoxylum acanthopodium* (stem cortex), WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*], YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*], *Stauranthus perforatus* (root). **Ref:** 6, 543, 660, 900, 1521, 4439, 5253.

**7720 (-)-Fargesol**

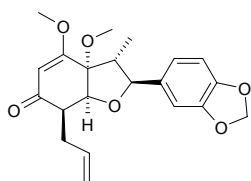
$C_{22}H_{28}O_7$ (404.46). **Source:** ZHOU YE MU LAN *Magnolia praecoccisima* (seed). **Ref:** 4181.

**7721 Fargesone A**

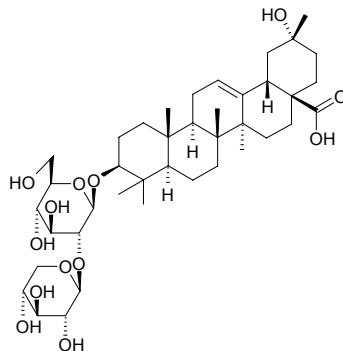
$C_{21}H_{24}O_6$ (372.42). **Pharm:** Calcium antagonist (gpg, colon bands). **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 658.

**7722 Fargesone B**

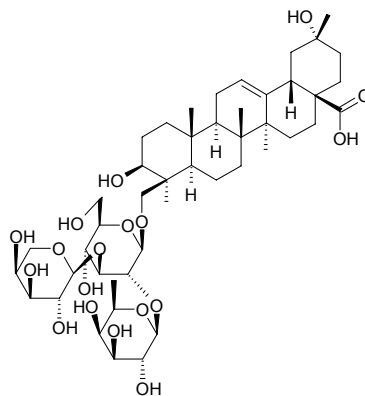
$C_{21}H_{24}O_6$ (372.42). **Source:** YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. **Ref:** 4439.

**7723 Fargoside A**

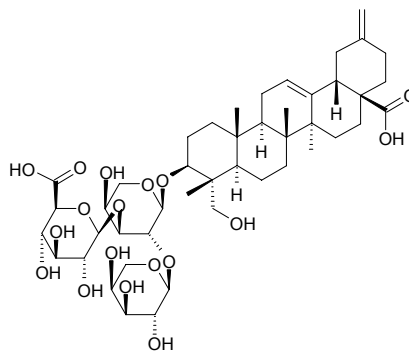
3 β ,20 α -Dihydroxy-29-norolean-12-en-28-oic acid 3-*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside $C_{40}H_{64}O_{13}$ (752.95). Amorphous solid, $[\alpha]_D^{25} = +24.4^\circ$ ($c = 1.0$, MeOH). **Source:** WU YE GUA TENG *Holboellia fargesii* (root). **Ref:** 4109.

**7724 Fargoside B**

3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 23-*O*- β -D-fucopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside $C_{46}H_{74}O_{18}$ (915.09). Amorphous solid, $[\alpha]_D^{22} = +39.6^\circ$ ($c = 1.0$, MeOH). **Source:** WU YE GUA TENG *Holboellia fargesii* (root). **Ref:** 4109.

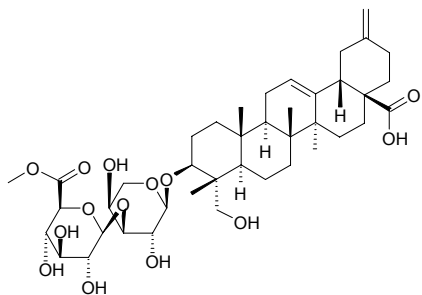
**7725 Fargoside C**

3 β ,23-Dihydroxy-30-norolean-2,20(29)-dien-28-oic acid 3-*O*- α -L-arabino-pyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyluronic acid-(1 \rightarrow 3)]- α -L-arabino-pyranoside $C_{45}H_{68}O_{18}$ (897.03). Amorphous solid, $[\alpha]_D^{25} = +54.0^\circ$ ($c = 0.6$, MeOH). **Source:** WU YE GUA TENG *Holboellia fargesii* (root). **Ref:** 4109.

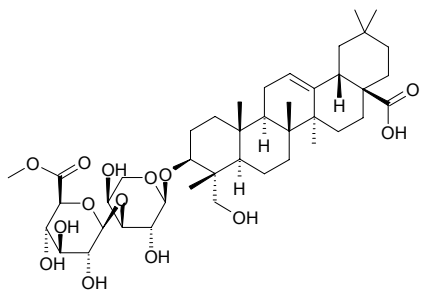


7726 Fargoside D

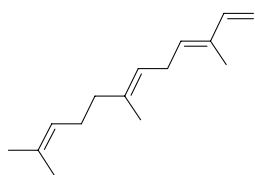
3 β ,23-Dihydroxy-30-norolean-12,20(29)-dien-28-oic acid 3-*O*-methyl β -*D*-glucopyranosyluronate-(1 \rightarrow 3)- α -*L*-arabinopyranoside C₄₁H₆₂O₁₄ (778.94). Amorphous solid, $[\alpha]_D^{23} = +65.6^\circ$ ($c = 0.5$, MeOH). Source: WU YE GUA TENG *Holboellia fargesii* (root). Ref: 4109.

**7727 Fargoside E**

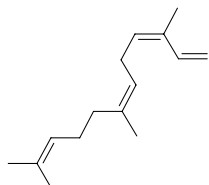
3 β ,23-Dihydroxy-olean-12-en-28-oic acid 3-*O*-methyl β -*D*-glucopyranosyluronate-(1 \rightarrow 3)- α -*L*-arabinopyranoside C₄₂H₆₆O₁₄ (794.99). Amorphous solid, $[\alpha]_D^{28} = +18.3^\circ$ ($c = 0.8$, MeOH). Source: WU YE GUA TENG *Holboellia fargesii* (root). Ref: 4109.

**7728 (E,E)- α -Farnesene**

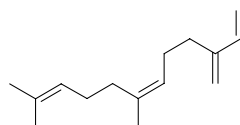
[21499-64-9] C₁₅H₂₄ (204.36). Source: GAN JIANG *Zingiber officinale*. Ref: 2.

**7729 (Z,Z)- α -Farnesene**

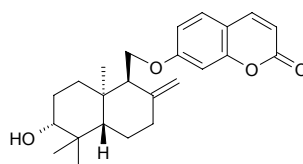
C₁₅H₂₄ (204.36). bp 128~130°C/12mmHg. Source: DU SONG SHI *Juniperus rigida*, HONG CHAI HU *Bupleurum scorzonerifolium*, JU PI *Citrus reticulata*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], PI PA YE *Eriobotrya japonica*, PI PA YE *Eriobotrya japonica*, SHENG JIANG *Zingiber officinale*, *Malus* sp., *Pyrus* sp. Ref: 2, 660.

**7730 β -Farnesene**

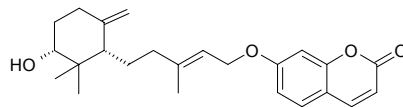
C₁₅H₂₄ (204.36). bp 121~122°C/9mmHg. Source: BO SHI QIE *Solanum berthaultii*, CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HUA DONG LAN CI TOU *Echinops grijsii*, HUANG HUA HAO *Artemisia annua*, HUO XIANG *Agastache rugosus*, PI PA YE *Eriobotrya japonica*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHENG JIANG *Zingiber officinale*, TAN XIANG *Santalum album*, XI YANG SHEN *Panax quinquefolium*. Ref: 2, 660.

**7731 Farnesiferol A**

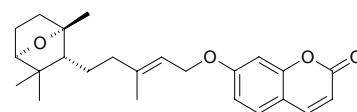
[511-33-1] C₂₄H₃₀O₄ (382.50). mp (-) 155.0~155.5°C, mp (\pm) 152~156°C. Source: A WEI *Ferula assafoetida*. Ref: 6.

**7732 Farnesiferol B**

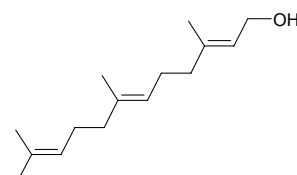
[54990-68-0] C₂₄H₃₀O₄ (382.50). mp 112.5~113.5°C. Source: A WEI *Ferula assafoetida*. Ref: 6.

**7733 Farnesiferol C**

[512-17-4] C₂₄H₃₀O₄ (382.50). mp 83.5~84.5°C. Source: A WEI *Ferula assafoetida*. Ref: 6.

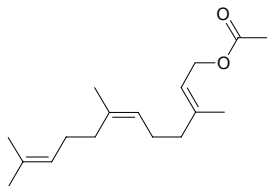
**7734 Farnesol**

3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol [4602-84-0] C₁₅H₂₆O (222.37). bp 160°C/10mmHg. Pharm: Flavorant. Source: DAI DAI HUA *Citrus aurantium* var. *amara*, HUANG KUI *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], JIN YIN HUA *Lonicera japonica*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], PI PA YE *Eriobotrya japonica*, PI PA YE *Eriobotrya japonica*, PU TI SHU HUA *Tilia miqueliana*, SHENG JIANG *Zingiber officinale*. Ref: 2, 6, 658, 660.

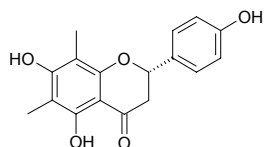


7735 Farnesyl acetate

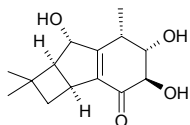
$C_{17}H_{28}O_2$ (264.41). bp 169~170°C/10mmHg. Source: HUANG HUA HAO *Artemisia annua*, MU HAO *Artemisia japonica*. Ref: 6, 660.

**7736 Farrerol**

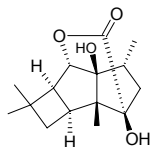
[24211-30-1] $C_{17}H_{16}O_5$ (300.31). mp (\pm) 223~224°C. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 25 μ g/mL); antitussive (dispels phlegm, main effective component in *Rhododendron dauricum* MAN SHAN HONG to treat trachitis); inhibits tissue respiration in lung trachea (rat, *in vitro*); LD₅₀ (mus, orl) = (1500 \pm 23)mg/kg. Source: MAN SHAN HONG *Rhododendron dauricum* (branchlet-leaf or flower: content = 0.1%^[5501], content = 0.07%^[5508]; leaf: mean content of 8 origins = 0.097%^[5527]), XIN XI LAN MA *Phormium tenax*. Ref: 4, 6, 658, 5501, 5508, 5527.

**7737 Fascicularone A**

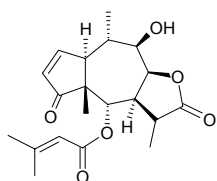
(1*S*,9*S*)-4 α ,11,11-Trimethyl-2 α ,5 α ,6 β -trihydroxytricyclo[5,4,0,0^{2,5}]undec-3-en-7-one $C_{14}H_{20}O_4$ (252.31). Colorless needles, mp 75~77°C, $[\alpha]_D^{20} = +323.8^\circ$ ($c = 0.56$, CHCl₃). Source: CU SHENG HUANG REN SAN *Naematoloma fasciculare*. Ref: 3775.

**7738 Fascicularone B**

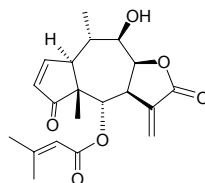
(1*S*,8*S*)-4 α ,7 β ,10,10-Tetramethyl-3 β ,6 β -dihydroxytricyclo[5,3,0,0^{2,5}]decan-2 α ,6-olide $C_{15}H_{22}O_4$ (266.34). Colorless needles, mp 127~128°C, $[\alpha]_D^{20} = +63.5^\circ$ ($c = 0.88$, CHCl₃). Source: CU SHENG HUANG REN SAN *Naematoloma fasciculare*. Ref: 3775.

**7739 Fastigilin B**

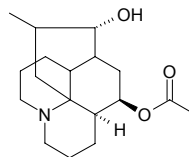
[6995-11-5] $C_{20}H_{26}O_6$ (362.43). mp 259~261°C (acetone-petroleum ether). Pharm: Antineoplastic; cytotoxic. Source: BAI LAI SHI JU *Baileya multiradiata*. Ref: 658.

**7740 Fastigilin C**

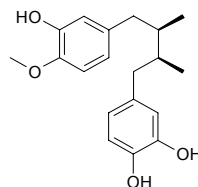
[6995-12-6] $C_{20}H_{24}O_6$ (360.41). mp 197~199°C (acetone-isopropane ether), $[\alpha]_D^{23} = -85.8^\circ$ ($c = 1.11$). Pharm: Antineoplastic (mus, P₃₈₈ and Lewis lung cancer, *in vivo*); cytotoxic (mus, P₃₈₈ *in vitro*, ED₅₀ = 0.004 μ g/mL; mus, L₁₂₁₀ *in vitro*, ED₅₀ < 0.01 μ g/mL; KB, ED₅₀ = 1.0 μ g/mL). Source: BAI LAI SHI JU *Baileya multiradiata*. Ref: 661.

**7741 Fawcettiine**

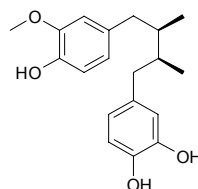
β -Lofoline [6899-87-2] $C_{18}H_{29}NO_3$ (307.44). mp 166~167°C. Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6.

**7742 FB1**

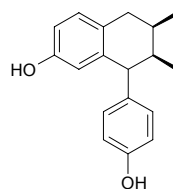
$C_{19}H_{24}O_4$ (316.40). Pharm: Anti-HIV. Source: SAN CHI LA RUI A *Larrea tridentata*. Ref: 2268.

**7743 FB2**

$C_{19}H_{24}O_4$ (316.40). Pharm: Anti-HIV (strong). Source: SAN CHI LA RUI A *Larrea tridentata*. Ref: 2268.

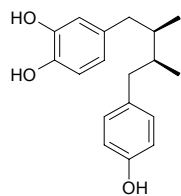
**7744 FB3**

$C_{18}H_{20}O_2$ (268.36). Pharm: Anti-HIV. Source: SAN CHI LA RUI A *Larrea tridentata*. Ref: 2268.

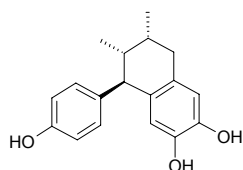


7745 FB4

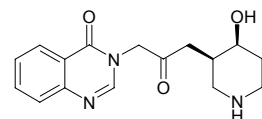
$C_{18}H_{22}O_3$ (286.37). **Pharm:** Anti-HIV. **Source:** SAN CHI LA RUI A *Larrea tridentata*. **Ref:** 2268.

**7746 FB5**

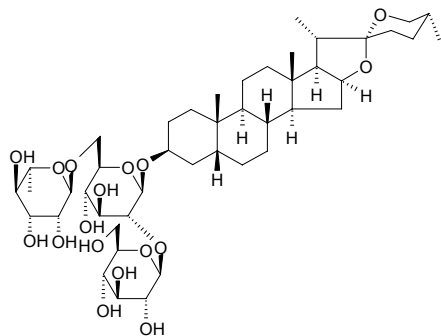
3'-Demethoxy-6-O-demethylisogaucin $C_{18}H_{20}O_3$ (284.36). **Pharm:** Anti-HIV; antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} = (1.6 \pm 0.4) \mu\text{g/mL}$; control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} = (13.6 \pm 2.6) \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$)^[3850]. **Source:** SAN CHI LA RUI A *Larrea tridentata*. **Ref:** 1521, 2268, 3850.

**7747 Febrifugine**

$C_{16}H_{19}N_3O_3$ (301.35). mp 139–140°C. **Source:** CHANG SHAN *Dichroa febrifuga* (in 1948, the compound was isolated from the plant by F.A. Kuehl, et al.)^[5505]. **Ref:** 5505.

**7748 Fenbaqia saponin**

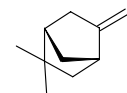
$C_{45}H_{74}O_{17}$ (887.08). **Pharm:** Hemolytic (chicken blood trial, distinct effect). **Source:** HEI GUO BA QIA *Smilax glauco-china*. **Ref:** 2165.

**7749 α -Fenchene**

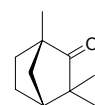
[471-84-1] $C_{10}H_{16}$ (136.24). bp (+) 155–156°C, (–) 153–154°C/720mmHg, (\pm) 154–156°C. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6.

**7750 β -Fenchene**

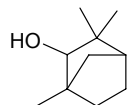
[33404-67-0] $C_{10}H_{16}$ (136.24). **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**7751 Fenchone**

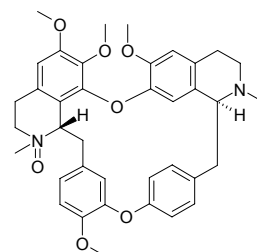
1,3,3-Trimethylbicyclo[2.2.1]heptan-2-one [1195-79-5] $C_{10}H_{16}O$ (152.24). mp (+) 5.5°C, (–) 6°C, bp (\pm) 72–73°C/12mmHg. **Pharm:** Local stimulant. **Source:** BEI MEI YA BAI *Thuja occidentalis*, CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], FU SHE SONG *Pinus radiata*, HUANG HUA HAO *Artemisia annua*, HUI XIANG *Foeniculum vulgare*, LIU YE MU LAN *Magnolia salicifolia*, SHUI SHAN *Metasequoia glyptostroboides*, XIA KU CAO *Prunella vulgaris*, XIANG LI *Chenopodium botrys*, XIANG ZHI LENG SHAN *Abies balsamea*, XUAN YE XIANG QING *Anaphalis contorta*, ZHANG MU *Cinnamomum camphora*. **Ref:** 6, 658, 660.

**7752 Fenchyl alcohol**

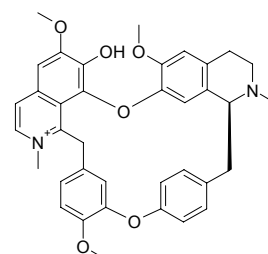
1,3,3-Trimethyl-2-norbornanol $C_{10}H_{18}O$ (154.25). bp 200°C. **Source:** GANG SONG *Baeckea frutescens*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**7753 Fentifangine A**

[115556-32-6] $C_{38}H_{42}N_2O_7$ (638.77). **Source:** FANG JI *Stephania tetrandra*. **Ref:** 2.

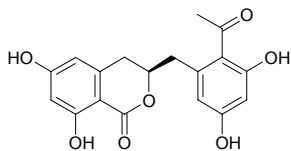
**7754 Fentifangine D**

1,3,4-Tridehydrofentifanginolinium [115439-62-8] $C_{37}H_{37}N_2O_6^+$ (605.72). **Source:** FANG JI *Stephania tetrandra*. **Ref:** 2, 1521.

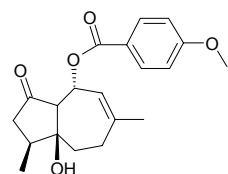


7755 Feralolide

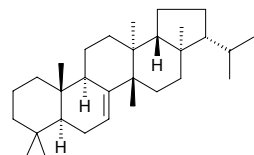
[149418-38-2] C₁₈H₁₆O₇ (344.32). mp 176~178°C, [α]_D²⁵ = -44.9° (*c* = 0.025, MeOH). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 730.

**7756 Fercomin**

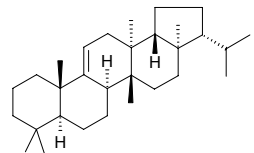
C₂₀H₂₄O₅ (344.41). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 2.3mg/mL; *Streptomyces scabies*, MIC = 2.1mg/mL; *Bacillus subtilis*, MIC = 1.7mg/mL; *Bacillus cereus*, MIC = 1.4mg/mL; *Pseudomonas aeruginosa*, MIC = 1.00mg/mL); antifungal (*Aspergillus niger*, MIC = 1.0mg/mL). Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.

**7757 7-Fernene**

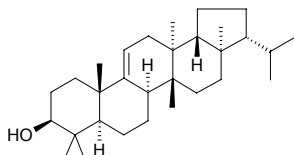
C₃₀H₅₀ (410.73). mp 208.5~209.5°C. Source: TIE SI QI *Adiantum pedatum*. Ref: 6.

**7758 9(11)-Fernene**

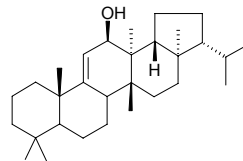
C₃₀H₅₀ (410.73). mp 170~171°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*, SHUI LONG GU *Polypodium niponicum*, TIE SI QI *Adiantum pedatum*. Ref: 6, 660.

**7759 Fernenol**

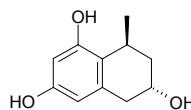
C₃₀H₅₀O (426.73). mp 194°C. Source: AI YE *Artemisia argyi*, LONG XU CAO *Poa sphondyloides*, MAO CAO YE *Imperata cylindrica* var. *major*. Ref: 6.

**7760 Fern-9(11)-en-12β-ol**

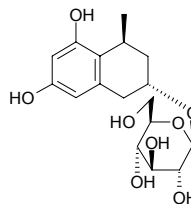
C₃₀H₅₀O (426.73). Source: ZHU ZONG CAO *Adiantum capillus-veneris* (fresh frond). Ref: 4230.

**7761 Feroxidin**

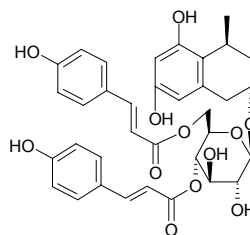
(-)-Feroxidin; (6*R*,8*R*)-5,6,7,8-Tetrahydro-8-methyl-1,3,6-naphthalenetriol [129622-85-1] C₁₁H₁₄O₃ (194.23). White amorphous powder, mp 84°C, [α]_D²⁰ = -11.3° (*c* = 0.11, MeOH). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 731.

**7762 Feroxin A**

[142905-36-0] C₁₇H₂₄O₈ (356.38). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 732.

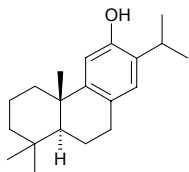
**7763 Feroxin B**

[142905-37-1] C₃₅H₃₆O₁₂ (648.67). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 732.

**7764 Ferruginol**

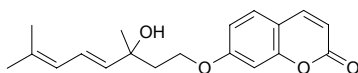
8,11,13-Abietatrien-12-ol [514-62-5] C₂₀H₃₀O (286.46). mp 57~59°C, bp 175°C/0.3mmHg, [α]_D²⁵ = +40.3° (*c* = 1.0, EtOH), [α]_D²⁵ = +43° (*c* = 1.0, CHCl₃), [α]_D²⁵ = +39.3° (*c* = 0.70, CHCl₃); [α]_D²⁵ = +40.6°. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 31.2μg/mL (MCC > 250μg/mL), control Tetracycline, MIC = 1.56μg/mL; *Bacillus subtilis*, MIC = 7.8μg/mL (MCC > 250μg/mL), Tetracycline, MIC = 1.56μg/mL; *Enterococcus faecalis*, MIC = 7.8μg/mL (MCC > 250μg/mL), Tetracycline,

MIC = 1.56 µg/mL; *Listeria monocytogenes*, MIC = 7.8 µg/mL (MCC = 31.25 µg/mL), Tetracycline, MIC < 0.39 µg/mL; *Salmonella enteritidis*, MIC > 250 µg/mL, Tetracycline, MIC = 1.56 µg/mL; *Escherichia coli*, MIC > 250 µg/mL, Tetracycline, MIC = 1.56 µg/mL; *Shigella sonnei*, MIC > 250 µg/mL, Tetracycline, MIC = 6.25 µg/mL^[5401]; antifungal (*Candida albicans*, MIC > 250 µg/mL, Miconazole, MIC = 8 µg/mL; *Candida krusei*, MIC > 250 µg/mL, Miconazole, MIC = 2 µg/mL)^[5401]; cytotoxic (Col2, IC₅₀ = 9.7 µg/mL, control Ellipticine, IC₅₀ = 0.3 µg/mL; LNCaP, IC₅₀ = 17.1 µg/mL, Ellipticine, IC₅₀ = 0.8 µg/mL; P₃₈₈, IC₅₀ = 16.3 µg/mL, Ellipticine, IC₅₀ = 0.1 µg/mL; A2780, IC₅₀ = 33.3 µg/mL, control Actinomycin D, IC₅₀ = 0.001 µg/mL; KB-VI, IC₅₀ > 20 µg/mL; KB, IC₅₀ > 20 µg/mL; Lu1, IC₅₀ > 20 µg/mL; BC-1, IC₅₀ > 20 µg/mL)^[5400]; cytotoxic (EBV-EA inhibitor TPA-induced, mol ratio/TPA = 1000, InRt = 100%)^[5352]. **Source:** CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*, DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.117%)^[5508], DU SONG SHI *Juniperus rigida*, GAN XI SHU WEI CAO *Salvia przewalskii*, RI BEN XIANG BAI JING PI *Thuja standishii*, SAN YE SHU WEI CAO *Salvia trijuga*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. **Ref:** 6, 116, 182, 4538, 5352, 5400, 5401, 5508.



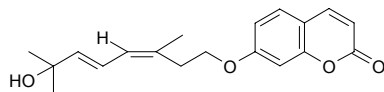
7765 Ferulagol A

7-[(*E*)-3'-Hydroxy-3',7'-dimethyl-4',6'-octadienyloxy]coumarin C₁₉H₂₂O₄ (314.38). **Source:** *Ferula ferulago* (root). **Ref:** 5163.



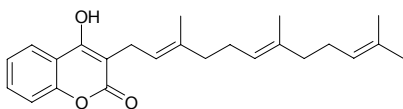
7766 Ferulagol B

7-[(3*Z*,5*E*)-7'-Hydroxy-3',7'-dimethyl-3',5'-octadienyloxy]coumarin C₁₉H₂₂O₄ (314.38). **Source:** *Ferula ferulago* (root). **Ref:** 5163.



7767 Ferulenol

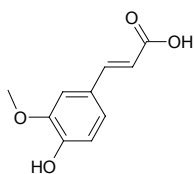
C₂₄H₃₀O₃ (366.50). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 2.4 mg/mL; *Streptomyces scabies*, MIC = 2.2 mg/mL; *Bacillus subtilis*, MIC = 2.0 mg/mL; *Bacillus cereus*, MIC = 2.1 mg/mL; *Pseudomonas aeruginosa*, MIC = 2.3 mg/mL; *Escherichia coli*, MIC = 4.8 mg/mL)^[5305]; antifungal (*Fusarium oxysporum*, MIC = 4.6 mg/mL; *Aspergillus niger*, MIC = 4.7 mg/mL)^[5305]. **Source:** HE SHI FENG *Daucus carota* (root). **Ref:** 5305.



7768 Ferulic acid

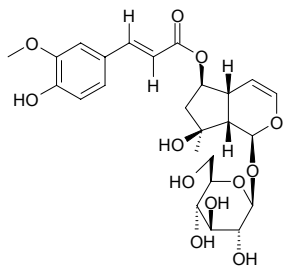
4-Hydroxy-3-methoxycinnamic acid [537-98-4] C₁₀H₁₀O₄ (194.19). White powder, mp 170~171°C (Me₂CO); mp 173~178°C. **Pharm:** Antineoplastic; antimitotic; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; antibacterial; antiestrogenic; antifungal; antihepatotoxic; platelet aggregation inhibitor; antioxidant (DPPH scavenger, EC₅₀ = 3.8 µg/mL = 19.6 µmol/L, control Ascorbic acid, EC₅₀ = 1.6 µg/mL = 9.1 µmol/L)^[4154]; DPPH scavenger (SC₅₀ = 4.5 µmol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazane formation activity > 100 µmol/L)^[4247]; antitubercular (*Mycobacterium tuberculosis*, MIC > 128 µg/mL, cytotoxic, Vero cells, IC₅₀ > 102 µg/mL, positive control Rifampin, MIC = 0.03 µg/mL, IC₅₀ = 98.3 µg/mL, SI = 3277)^[4986]; platelet aggregation inhibitor (100 µmol/L AA-induced, 5 µg/mL, InRt = (100.0 ± 0.0)%, *p* < 0.001, control Aspirin, 50 µg/mL, InRt = (100 ± 0.0)%; 10 µg/mL collagen-induced, 100 µg/mL, InRt = (93.5 ± 1.3)%, *p* < 0.001, Aspirin, 50 µg/mL, InRt = (12.2 ± 1.7)%; 2 nmol/L PAF-induced, 100 µg/mL, InRt = (16.0 ± 1.3)%, *p* < 0.05, Aspirin, 50 µg/mL, InRt = (9.6 ± 1.2)%; 0.1 µg/mL thrombin-induced, 100 µg/mL, InRt = (7.2 ± 2.1)%); neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 µmol/L, cell viability = (54.8 ± 1.1)%, *p* < 0.01, control MK-801, 0.1 µmol/L, cell viability = (31.8 ± 7.1)%, APV, 0.1 µmol/L, cell viability = (5.7 ± 1.9)%, XNQX, 0.1 µmol/L, cell viability = (28.1 ± 5.6)%)^[3967]. **Source:** A WEI *Ferula assafoetida* (balsam: content scope = 0.03%~0.09%)^[5501], AI WA JIN GU CAO *Ajuga iva*, BEI SHA SHEN *Glehnia littoralis* (underground part), BEI XUAN SHEN *Scrophularia buergeriana* (root), CHA XIONG *Ligusticum sinense* cv. *chaxiong*, CHOU A WEI *Ferula foetida*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (rhizome: mean content of 5 batch samples = 0.065%)^[5508], DA CHE QIAN *Plantago major*, DA SAN YE SHENG MA *Cimicifuga heracleifolia* (dried rhizome: content = 0.004%)^[5508], DANG GUI *Angelica sinensis* (dried root: mean content = 0.058%)^[5508], DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.00221%)^[5508], DI SHAO GUA *Cynanchum thesioides*, DUAN PIAN GAO BEN *Ligusticum brachylobum* (root and rhizome: content = 0.02%)^[5508], FEN CHA DANG GUI *Angelica furcijuga* (flower), GAO BEN *Ligusticum sinense* (root and rhizome: mean content of 8 origins = 0.084%)^[5508], GAO GUI CHUN HUANG JU *Anthemis nobilis*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00070%)^[4706], HU HUANG LIAN *Picrorhiza kurroa* (dried rhizome: content scope = 0.82%~2.41%)^[5508], HUANG LIAN *Coptis chinensis*, HUI XIANG JING YE *Foeniculum vulgare*, JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbiferum*], JING MI *Oryza sativa*, KE XI JIA SONG *Pinus laricio*, LAI FU *Raphanus sativus*, LAI FU ZI *Raphanus sativus*, LAO SHU GUA *Capparis spinosa*, LI MENG YE *Citrus limonia*, LIAO GAO BEN *Ligusticum jeholense* (root and rhizome: mean content of 5 origins = 0.137%)^[5508], LUAN BAN ZAO ZHUI *Arenaria kansuensis* var. *ovatipeatala* (whole herb: mean content = 0.0406%)^[5508], MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], MI PI KANG *Oryza sativa*, MU ZEI *Equisetum hiemale*, NING MENG GEN *Citrus limon*, NING MENG PI *Citrus limon*, OU DANG GUI *Levisticum officinale* (dried root: mean content = 0.025%)^[5508], QIANG HUO *Notopterygium incisum*, SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], SHENG MA *Cimicifuga foetida* (dried rhizome: content scope of 10 origins = 0.003%~0.063%, mean content = 0.018%)^[5508], SHI DIAO BAI *Asparagus officinalis*, SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),

SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*, TAI WAN FENG DOU CAI *Petasites formosanus*, TAI WAN FU RONG *Hibiscus taiwanensis*, TI MU CAO *Phleum pratense*, TIAN CAI *Beta vulgaris*, XI LA GANG LIU *Periploca graeca*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 0.82%~2.41%^[5508]), XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*], XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00053%), XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*], XIN JIANG GAO BEN *Conioselinum vaginatum* (root and rhizome: content = 0.30%)^[5508], XING AN SHENG MA *Cimicifuga dahurica* (dried rhizome: mean content of 3 origins = 0.010%^[5508]), XUAN FU HUA *Inula britannica*, YANG CONG *Allium cepa*, YAO YONG PU GONG YING *Taraxacum officinale*, YI YE TIE SHAN *Tsuga heterophylla*, YI ZHU QIAN MA *Urtica dioica*, ZI BAI PI *Catalpa ovata*, occurs in many plants (widely distributed in plants. firstly isolated from *Ferula foetida*. found by Bate-Smith in 33% of investigated dicotyledonous and 67% of monocotyledonous plants). Ref: 2, 4, 456, 476, 500, 507, 512, 601, 602, 658, 660, 663, 2377, 2529, 3967, 4154, 4247, 4454, 4706, 4986, 5038, 5501, 5508.



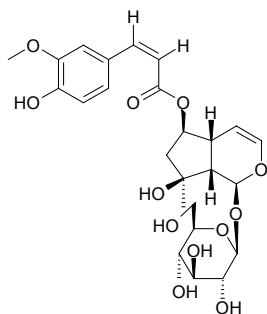
7769 6-O-E-Feruloylajugol

C₂₅H₃₂O₁₂ (254.53). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.



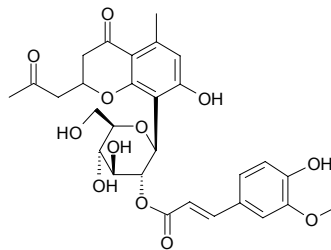
7770 6-O-Z-Feruloylajugol

C₂₅H₃₂O₁₂ (524.53). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.



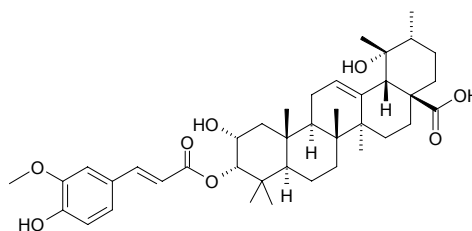
7771 2''-O-Feruloylaloetin

C₂₉H₃₂O₁₂ (572.57). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2.



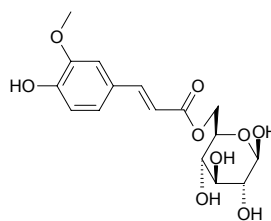
7772 3-O-trans-Feruloylaleucaphic acid

C₄₀H₅₆O₈ (6648.9). Source: PI PA YE *Eriobotrya japonica* (stem and leaf). Ref: 3061.



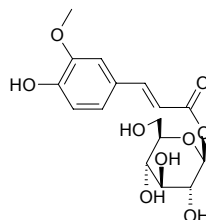
7773 6-O-Feruloyl-beta-D-glucopyranoside

C₁₆H₂₀O₉ (356.33). Pharm: Antioxidant inactive (hydroxyl radical scavenger, IC₅₀ > 400 μmol/L, control Ascorbic acid, IC₅₀ = 51.8 μmol/L, superoxide anion radical scavenger, IC₅₀ > 400 μmol/L, control Ascorbic acid, IC₅₀ = 86.2 μmol/L)^[4289]. Source: XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). Ref: 4289.



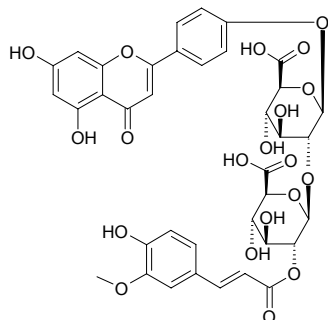
7774 1-O-Feruloyl-beta-glucose

C₁₆H₂₀O₉ (356.33). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0053%dw). Ref: 4723.



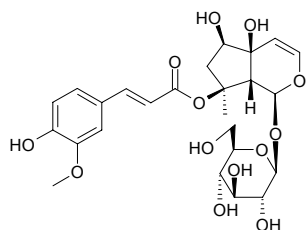
7775 4'-O-[2'-O-E-Feruloyl-O-β-D-glucuronopyranosyl(1→2)-O-β-D-glucuronopyranoside]apigenin

C₃₇H₃₄O₂₀ (798.67). Amorphous yellow powder, mp 197–198°C, [α]_D²⁰ = –74.2° (c = 0.1, MeOH). Source: MU XU *Medicago sativa* (aerial parts). Ref: 5167.



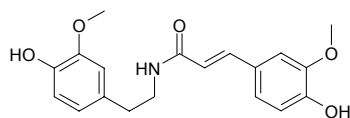
7776 8-O-Feruloylharpagide

C₂₅H₃₂O₁₃ (540.53). Amorphous powder; mp 150–152°C, [α]_D = –24.20° (c = 0.231, MeOH). Source: NAN FEI GOU MA *Harpagophytum procumbens*, XUAN SHEN *Scrophularia ningpoensis*. Ref: 1855, 5458.



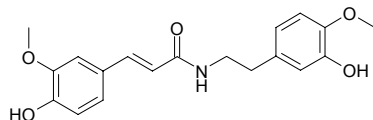
7777 N-trans-Feruloylmethoxytyramine

N-trans-Feruloyl-3-methyl-dopamine C₁₉H₂₁NO₅ (343.38). Yellowish prismatic crystals (Me₂CO), mp 105–106°C. Pharm: Germination/growth inhibitor/stimulator (dicotyledon *Lactuca sativa* lettuce, *Lycopersicon esculentum* tomato, monocotyledon *Allium cepa* onion, 0.0001–0.1 mmol/L)^[3499]; anti-HIV inactive (*in vitro*, acutely infected H9 lymphocyte cells)^[4706]; cytotoxic inactive (*in vitro*, MCF7 and A549)^[4706]. Source: BO CAI *Spinacia oleracea*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00055%), LI *Chenopodium album* (aerial parts), ZHU MAO CAI *Salsola collina* (aerial parts). Ref: 3499, 4706, 4846.



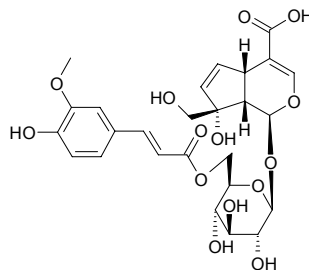
7778 N-trans-Feruloyl-4'-O-methyl-dopamine

C₁₉H₂₁NO₅ (343.38). Pharm: Germination/growth inhibitor/stimulator (dicotyledon *Lactuca sativa* lettuce, *Lycopersicon esculentum* tomato, monocotyledon *Allium cepa* onion, 0.0001–0.1 mmol/L). Source: LI *Chenopodium album* (root, aerial parts). Ref: 3499.



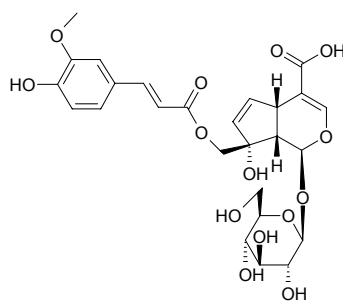
7779 6'-O-E-Feruloylmonotropein

C₂₆H₃₀O₁₄ (566.52). Crystals, mp 143–144°C (MeOH) [α]_D²⁰ = –30.2° (c = 0.24, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 2561.



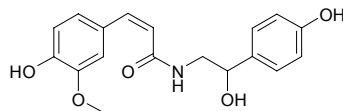
7780 10-O-E-Feruloylmonotropein

C₂₆H₃₀O₁₄ (566.52). Crystals, mp 147–148°C (MeOH), [α]_D²⁰ = –26.0° (c = 0.23, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 2561.



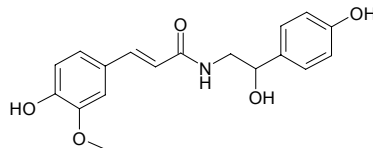
7781 N-cis-Feruloyloctopamine

C₁₈H₁₉NO₅ (329.36). Colorless oil. Source: MA LING SHU *Solanum tuberosum* (tuber). Ref: 5321.



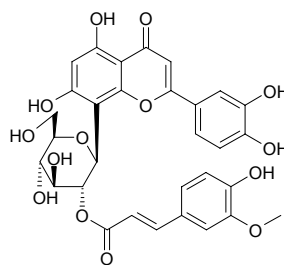
7782 N-trans-Feruloyloctopamine

C₁₈H₁₉NO₅ (329.36). Colorless oil. Source: MA LING SHU *Solanum tuberosum* (tuber). Ref: 5321.



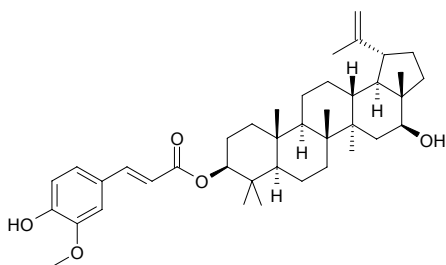
7783 2''-O-Feruloylorientin

C₃₁H₂₈O₁₄ (624.56). Yellow powder, mp 234–236°C, [α]_D²⁰ = –73.7° (c = 0.048, MeOH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower). Ref: 5278.

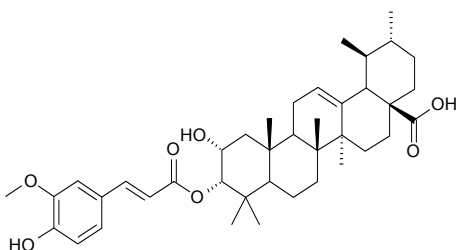


7784 3 β -trans-Feruloyloxy-16 β -hydroxylup-20(29)-ene

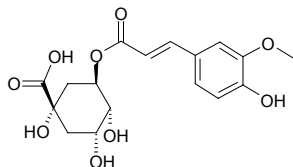
C₄₀H₅₈O₅ (618.91). White amorphous powder (CHCl₃-MeOH), mp 168°C (dec) [α]_D²⁰ = +18.7° (c = 0.15, MeOH). Source: FEI LV BIN PIAO SHU *Celtis philippinensis*. Ref: 2060.

**7785 3 α -trans-Feruloyloxy-2 α -hydroxyurs-12-en-28-oic acid**

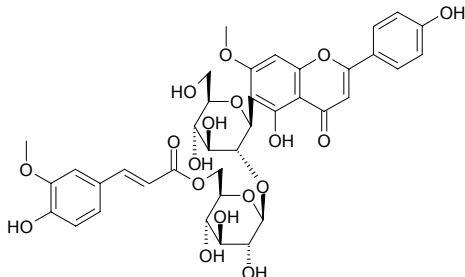
C₄₀H₅₆O₇ (648.89). White amorphous powder, [α]_D²² = +7.2° (c = 0.12, MeOH). Source: PI PA YE *Eriobotrya japonica* (stem and leaf). Ref: 3061.

**7786 3-O-Feruloylquinic acid**

C₁₇H₂₀O₉ (368.34). mp 196-197°C. Source: DI SHAO GUA *Cynanchum thesioides*, XIANG RI KUI YE *Helianthus annuus*. Ref: 6.

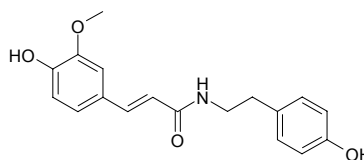
**7787 6'''-Feruloylspinosin**

C₃₈H₄₀O₁₈ (784.73). Source: DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 2.

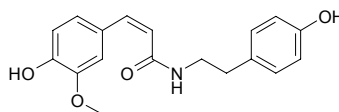
**7788 N-trans-Feruloyltyramine**

Moupinamide; (2,3)-trans-N-(p-Hydroxyphenethyl)ferulamide C₁₈H₁₉NO₄ (313.36). Colorless pillar crystals, mp 97-99°C; colorless lamellar crystals, (chloroform-acetone), mp 142-143°C, colorless needles. Pharm: Anti-HIV (H9 lymphocytic cells, inhibits replication, IC₅₀ (concentration that inhibits uninfected H9 cell growth by 50%) > 25μg/mL)^[2529]; cytotoxic (hmn, A549 EC₅₀ > 20μg/mL, MCF7 EC₅₀ > 20μg/mL)^[2529]; cytotoxic (BST, IC₅₀ =

6.7μg/mL, PD, InRt = 26.4%, A549, ED₅₀ = 13.35μg/mL, MCF7, ED₅₀ = 4.76μg/mL, HT29, ED₅₀ = 23.58μg/mL); cytotoxic (quinone reductase induction assay in cultured Hepal c1c7 mouse hepatoma cells, CD = 8.5μg/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, 75% at 10μg/mL)^[5038]; cytotoxic (P₃₈₈, ED₅₀ = 2.20μg/mL, control Mithramycin, ED₅₀ = 0.58μg/mL; A549, ED₅₀ = 22.42μg/mL, Mithramycin, ED₅₀ = 0.073μg/mL; HT29, ED₅₀ = 6.22μg/mL, Mithramycin, ED₅₀ = 0.076μg/mL)^[5421]; cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100μmol/L)^[4607]; antioxidant (lipid peroxidation inhibitor, brain tissue, caused by insufficient oxygen and sugar); platelet aggregation inhibitor (due to ADP); prostaglandin biosynthesis inhibitor (IC₅₀ = 210μmol/L); insect antifeedant (termites, 750mg/L, antifeedant index = 38.7); positive inotropic effect in heart (*in vitro*, increases calcium flow in frog, ventricular myocyte); immunoenhancer^[2100]; germination/growth inhibitor/stimulator (dicotyledon *Lactuca sativa* lettuce, *Lycopersicon esculentum* tomato, monocotyledon *Allium cepa* onion, 0.0001-0.1mmol/L)^[3499]; anti-HIV inactive (*in vitro*, acutely infected H9 lymphocyte cells)^[4706]; cytotoxic inactive (*in vitro*, MCF7 and A549)^[4706]. Source: BAI HUA YOU MA TENG *Mucuna birdwoodiana*, CANG BAI CHENG GOU FENG *Diploclisia glaucescens*, CI JI LI *Tribulus terrestris*, CI TIAN QIE *Solanum khasianum*, FAN LI ZHI *Annona squamosa*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00076%), HE SHOU WU *Polygonum multiflorum*, HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.0016%dw)^[4779], HUAI TONG *Aristolochia moupinensis*, HUANG HUA REN *Sida acuta*, HUO MA REN *Cannabis sativa*, LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0006%dw)^[4607], LI *Chenopodium album* (aerial parts), MA LING SHU *Solanum tuberosum* (tuber), MAI DONG *Ophiopogon japonicus* (tuber)^[4663], TAI WAN FU RONG *Hibiscus taiwanensis*, TIAN QIE ZI *Solanum indicum* (root)^[3087], MO ZHI JIAO GU CUI *Casearia membranacea* (stem), *Hypocoum* sp., occurs in many plants. Ref: 715, 900, 1316, 2100, 2529, 3087, 3499, 4607, 4663, 4706, 4779, 5038, 5321, 5421.

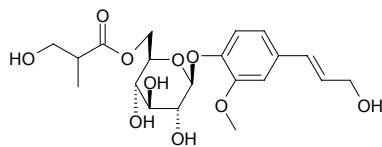
**7789 N-cis-Feruloyltyramine**

C₁₈H₁₉NO₄ (313.36). Pharm: Cytotoxic (P₃₈₈, ED₅₀ = 2.71μg/mL, control Mithramycin, ED₅₀ = 0.58μg/mL; A549, ED₅₀ = 35.94μg/mL, Mithramycin, ED₅₀ = 0.073μg/mL; HT29, ED₅₀ = 18.41μg/mL, Mithramycin, ED₅₀ = 0.076μg/mL)^[5421]. Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00048%dw), MA LING SHU *Solanum tuberosum* (tuber), TAI WAN FU RONG *Hibiscus taiwanensis*, MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 2529, 4779, 5321, 5421.



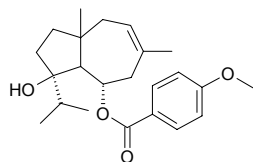
7790 *trans-p*-Ferulylalcohol-4-*O*-[6-(2-methyl-3-hydroxypropionyl)]glucopyranoside

$C_{20}H_{28}O_{10}$ (428.44). Source: HONG HAI JIAO *Capsicum annuum*. Ref: 3419.



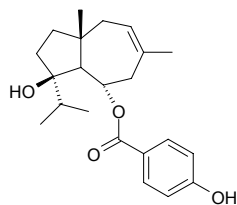
7791 Ferutidin

Jaeschkeanadiol *p*-methoxybenzoate $C_{23}H_{32}O_4$ (372.51). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.



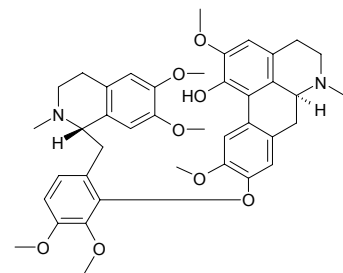
7792 Ferutinin

Jaeschkeanadiol *p*-hydroxybenzoate $C_{22}H_{30}O_4$ (358.48). Pharm: Antibacterial (MSSA, MIC = 8 μg/mL, control Ampicillin, MIC = 1 μg/mL; MRSA, MIC = 16 μg/mL, Ampicillin, MIC = 2 μg/mL; *Staphylococcus epidermidis* IFO 3762, MIC = 16 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Enterococcus faecalis* ATCC 21212, MIC = 31 μg/mL, Ampicillin, MIC = 1 μg/mL; *Bacillus subtilis* IFO 3134, MIC = 16 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Salmonella typhimurium* IFO 13245, MIC > 250 μg/mL, Ampicillin, MIC = 1 μg/mL; *Proteus mirabilis* IFO 3849, MIC > 250 μg/mL, Ampicillin, MIC = 2 μg/mL; *Escherichia coli* NIHJ JC-2, MIC > 250 μg/mL, Ampicillin, MIC = 4 μg/mL)^[5207]. Source: YI LANG A WEI *Ferula kuhistanica* (root), YI LANG A WEI *Ferula kuhistanica* (fruit). Ref: 3977, 5207.



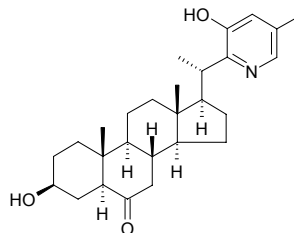
7793 Fetidine

[7072-86-8] $C_{40}H_{46}N_2O_8$ (682.82). mp (+) 132~135°C. Pharm: Anti-inflammatory; inhibits neuroaction; antihypertensive. Source: XIANG TANG SONG CAO *Thalictrum foetidum*. Ref: 6, 658, 660.



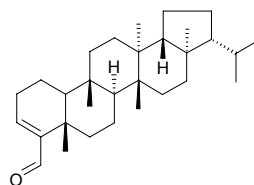
7794 Fetisinine

(3*R*,20*S*)-3-Hydroxyl-20-(5'-hydroxy-3'-methylpyridin-6'-yl)-5α-pregnan-6-one $C_{27}H_{39}NO_3$ (425.62). Amorphous colorless powder, $[\alpha]_D^{25} = -118^\circ$ ($c = 0.10$, MeOH). Source: XI BEI MU *Fritillaria imperialis*. Ref: 3372.



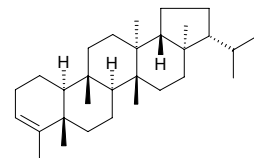
7795 Filicenal

[13843-88-4] $C_{30}H_{48}O$ (424.72). mp 272°C. Source: TIE SI QI *Adiantum pedatum*. Ref: 6.



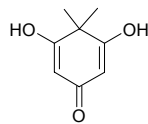
7796 Filicene

[2472-29-9] $C_{30}H_{50}$ (410.73). mp 228.5~229.5°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*, TIE SI QI *Adiantum pedatum*. Ref: 6.



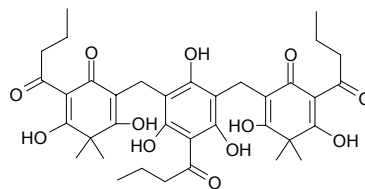
7797 Filicinic acid

[2065-00-1] $C_8H_{10}O_3$ (154.17). mp 215°C (dec). Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6.



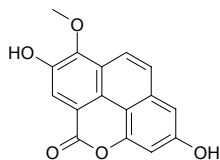
7798 Filixic acid BBB

[4482-83-1] $C_{36}H_{44}O_{12}$ (668.74). Pharm: Anthelmintic. Source: MIAN MA *Dryopteris filix-mas*. Ref: 658.

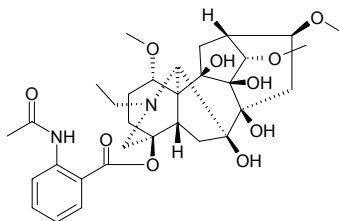


7799 Fimbriatone

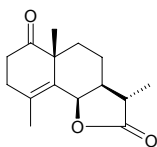
$C_{16}H_{10}O_5$ (282.26). Yellowish powder, mp 272~273°C. Source: LIU SU JIN SHI HU *Dendrobium fimbriatum*. Ref: 2469.

**7800 Finaconitine**

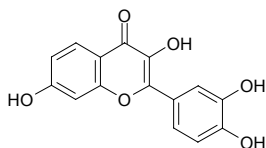
[81161-27-5] $C_{32}H_{44}N_2O_{10}$ (616.71). Crystals (ethanol), mp 220~221°C, $[\alpha]_D^{22} = +44.7^\circ$ ($c = 1$, methanol). Pharm: Analgesic. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

**7801 Finitin**

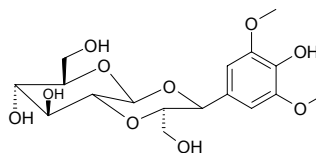
[54192-33-5] $C_{15}H_{20}O_3$ (248.32). mp 153~155°C. Source: DONG BEI HUI HAO *Seriphidium finitum* [Syn. *Artemisia finita*]. Ref: 6.

**7802 Fisetin**

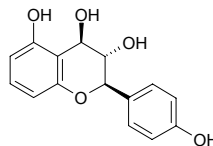
3,7,3',4'-Tetrahydroxyflavone [528-48-3] $C_{15}H_{10}O_6$ (286.24). Yellow acicular crystals (dilute ethanol), mp 330°C (dec), mp 348°C, mp 350°C; yellow thin acicular, mp > 300°C. Pharm: Antibacterial; antispasmodic (mus small intestine, caused by acetylcholine, smooth muscle relaxant); inhibits metabolism and release of arachidonic acid; antihistamine (inhibits histamine release, basophilic granulocyte); prostaglandin biosynthesis inhibitor; Δ^5 -lipoxygenase inhibitor; NADH oxidase inhibitor; iodine-induced thyronine deiodinase inhibitor; aldose reductase inhibitor (rat eye lens, $ID_{50} = 1 \mu\text{mol/L}$); protein kinase C inhibitor; succinic oxidase inhibitor; regulates allergic reaction. Source: HAI ER CHA *Acacia catechu*, HUANG LIAN YA *Pistacia chinensis*, LIAO SHANG RONG MAO HUA *Anthyllis vulneraria*, LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], MANG GUO *Mangifera indica*, YE QI SHU YE *Rhus sylvestris*. Ref: 6, 661.

**7803 Fissistigmoside**

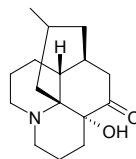
$C_{17}H_{24}O_{10}$ (388.37). White crystals, mp 188~190°C. Source: HEI FENG TENG *Fissistigma polyanthum*. Ref: 669.

**7804 Fistacacidin**

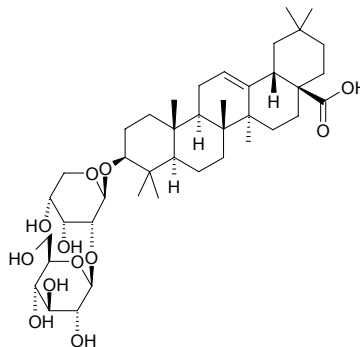
[25375-34-2] $C_{15}H_{14}O_5$ (274.28). mp 245~247°C. Source: PO LUO MEN ZAO JIA *Cassia fistula*. Ref: 6.

**7805 Flabelliformine**

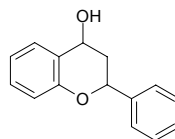
$C_{16}H_{25}NO_2$ (263.38). $[\alpha]_D^{25} = -78^\circ$ (MeOH). Source: DONG BEI SHI SHAN *Huperzia miyoshiana*. Ref: 5412.

**7806 Flaccidin B**

$C_{41}H_{66}O_{12}$ (750.98). Pharm: Reverse transcriptase inhibitor of RNA tumor virus. Source: E ZHANG CAO *Anemone flaccida*. Ref: 4060.

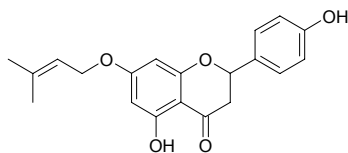
**7807 Flavanol**

Flavan-4-ol $C_{15}H_{14}O_2$ (226.28). mp 119°C. Source: LUO TUO CI *Alhagi pseudalhagi*, CHA SHU GEN *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

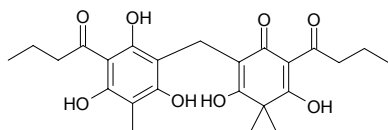


7808 Flavanone 4',5-dihydroxy-7-prenyloxyflavanone

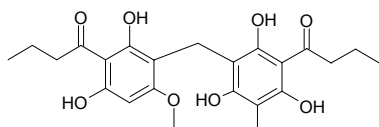
$C_{20}H_{20}O_5$ (340.38). Fine needles, mp 69–70°C. Source: GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). Ref: 3503.

**7809 Flavaspidic acid BB**

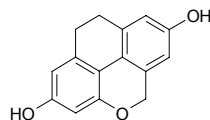
[114-42-1] $C_{24}H_{30}O_8$ (446.50). mp (α) 92°C; 150°C, (β) 156°C. Pharm: Antibacterial; antifungal; anthelmintic. Source: GAO JIA SUO LIN MAO JUE *Dryopteris caucasica*, GUAN ZHONG *Dryopteris crassirhizoma*, HUANG MAO LIN MAO JUE *Dryopteris chrysocoma*, MIAN MA *Dryopteris filix-mas*. Ref: 6, 658.

**7810 Flavaspidin**

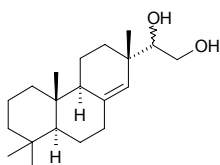
[1763-14-0] $C_{23}H_{28}O_8$ (432.47). mp 211–212°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6.

**7811 Flavidin**

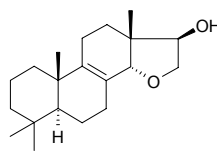
[83924-98-5] $C_{15}H_{12}O_3$ (240.26). Pharm: Antispasmodic. Source: BEI MU LAN *Coelogyne ovalis*, JIE JING SHI XIAN TAO *Pholidota articulata*. Ref: 658.

**7812 Flavidusin A**

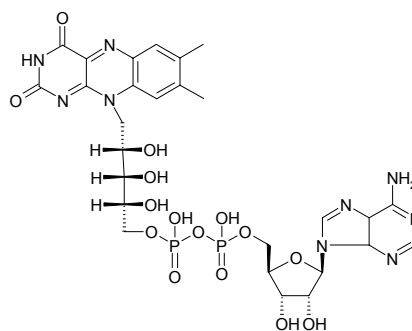
$C_{20}H_{34}O_2$ (306.49). mp 85–86°C, $[\alpha]_D^{22} = +31.82^\circ$ ($c = 0.55$, $CHCl_3$). Source: DAN HUANG XIANG CHA CAI *Isodon flavidus*. Ref: 4067.

**7813 Flavidusin B**

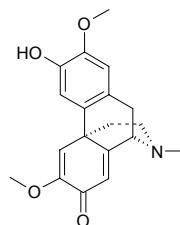
$C_{20}H_{32}O_2$ (304.48). mp 79–80°C, $[\alpha]_D^{22} = +109.0^\circ$ ($c = 0.65$, $CHCl_3$). Source: DAN HUANG XIANG CHA CAI *Isodon flavidus*. Ref: 4067.

**7814 Flavinadenine dinucleotide**

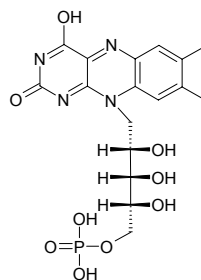
[146-14-5] $C_{27}H_{35}N_9O_{15}P_2$ (787.58). Source: QING WA *Rana nigromaculata*; *Rana plancyi*, YUAN CAN ZI *Bombyx mori*. Ref: 6.

**7815 (+)-Flavinantine**

$C_{19}H_{21}NO_4$ (327.38). Pharm: Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 9.3 μg/mL; Hep2,2,15, IC₅₀ = 9.7 μg/mL)^[3083]. Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (root and stem). Ref: 3083.

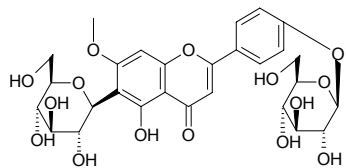
**7816 Flavin mononucleotide**

[146-17-8] $C_{17}H_{21}N_4O_9P$ (456.35). Source: YUAN CAN ZI *Bombyx mori*, ZHANG LANG *Blatta orientalis*. Ref: 6.

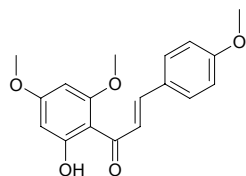


7817 Flavocommelin

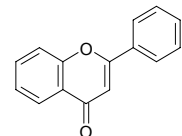
[16049-42-6] C₂₈H₃₂O₁₅ (608.56). mp 216~217°C. Source: YA ZHI CAO
Commelina communis. Ref: 6.

**7818 Flavokawain A**

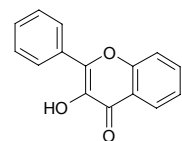
2'-Hydroxy-4,4',6'-trimethoxychalcone C₁₈H₁₈O₅ (314.34). Yellow plates
(*n*-hexane-EtOAc), mp 112°C, mp 114~115°C. Source: CHANG YE GE NA
XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**7819 Flavone**

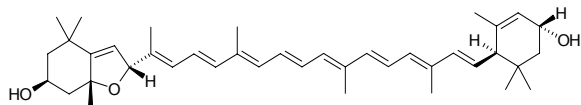
2-Phenylchromone [525-82-6] C₁₅H₁₀O₂ (222.25). mp 97°C. Pharm: Platelet
aggregation inhibitor (hmn); inhibits release of histamine from basophiles;
5-lipoxygenase inhibitor; cyclooxygenase inhibitor. Source: YIN FEN BAO
CHUN *Primula pulverulenta*, WU LOU ZI *Phoenix dactylifera*. Ref: 6, 658.

**7820 Flavonol**

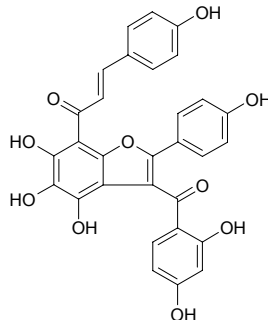
[577-85-5] C₁₅H₁₀O₃ (238.25). mp 169~170°C. Source: BAI GUO YE *Ginkgo*
biloba, BAI QU CAI *Chelidonium majus*, CHA SHU GEN *Camellia sinensis*
[Syn. *Thea sinensis*]. Ref: 6.

**7821 Flavoxanthin**

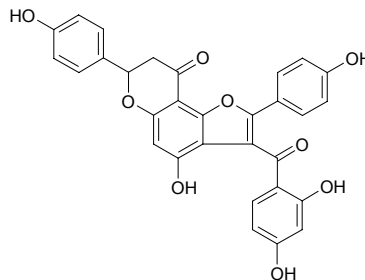
5,8-Epoxy-5,8-dihydro- β -*epsilon*-carotene-3,3'-diol [512-29-8] C₄₀H₅₆O₃
(584.89). mp 184°C. Pharm: Yellow pigment. Source: CAO DI MAO GEN
Ranunculus acris, DA BAI DING CAO *Senecio oryzetorum*, JIN ZHAN JU
Calendula officinalis, OU ZHOU QIAN LI GUANG *Senecio vulgaris*, QIAN
LI GUANG *Senecio scandens* [Syn. *Senecio chinensis*], WAN SHOU JU
Tagetes erecta, XI YANG JIE GU MU *Sambucus nigra*, XING REN *Prunus*
armeniaca, YANG LI *Prunus domestica*, YAO YONG PU GONG YING
Taraxacum officinale, YE MU XU *Medicago falcata* (whole herb: content
scope = 7%~8%), YIN BAI JIN HE HUAN *Acacia dealbata*, *Berberis* sp.,
Chrysanthemum sp., *Narcissus* sp., *Rosa* sp., *Tulipa* sp. Ref: 6, 658, 660.

**7822 Flavumone A**

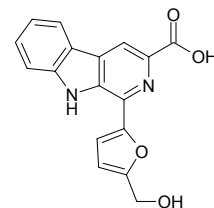
1-[3-(2,4-Dihydroxy-benzoyl)-4,5,6-trihydroxy-2-(4-hydroxy-phenyl)-benzofuran-7-yl]-3-(4-hydroxy-phenyl)-propenone C₃₀H₂₀O₁₀ (540.49). Yellow
crystals, mp 240~241°C (Me₂CO). Source: HUANG SAI JIN LIAN MU
Ouratea flava (stem cortex). Ref: 3384.

**7823 Flavumone B**

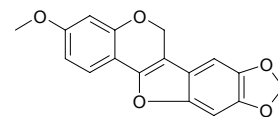
3-(2,4-Dihydroxy-benzoyl)-4-hydroxy-2,7-bis-(4-hydroxy-phenyl)-7,8-dihydro-
o-furo[2,3-f]chromen-9-on C₃₀H₂₀O₉ (524.49). Amorphous yellow solid.
[α]_D²⁵ = +29° (c = 0.5, MeOH). Source: HUANG SAI JIN LIAN MU *Ouratea*
flava (stem cortex). Ref: 3384.

**7824 Flazin**

C₁₇H₁₂N₂O₄ (308.30). Pharm: Cytotoxic (mouse mammary organ culture
assay, 75% at 4 μ g/mL)^[5038]. Source: YA DAN ZI *Brucea javanica* [Syn.
Brucea sumatrana; *Rhus javanica*]. Ref: 5038.

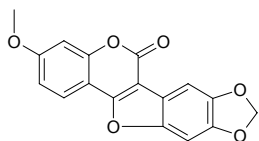
**7825 Flemichapparin B**

C₁₇H₁₂O₅ (296.28). Pharm: Antioxidant (DPPH scavenger, ScRt = 5.26%,
control BHT, ScRt = 71.5%)^[3810]; antibacterial (*Staphylococcus aureus* ATCC
25923, MIC > 512 μ g/mL, control Vancomycin, MIC = 0.5 μ g/mL; MRSA
SK1, MIC > 512 μ g/mL, Vancomycin, MIC = 1.0 μ g/mL)^[3810]; increases blood
pressure (anesthetized rats, increases in mean arterial blood pressure,
0.4mg/kg, 8.9mmHg)^[3810]. Source: PAN YUAN YU TENG *Derris scandens*
(stem). Ref: 3810.

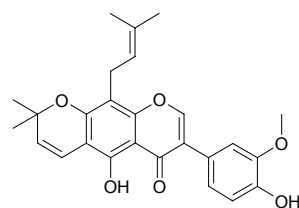


7826 Flemichapparin C

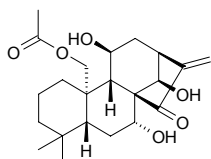
$C_{17}H_{10}O_6$ (310.27). **Pharm:** Antioxidant (DPPH scavenger, ScRt = 21.05%, control BHT, ScRt = 71.5%). **Source:** PAN YUAN YU TENG *Derris scandens* (stem). **Ref:** 3810.

**7827 Flemiphilippinin C**

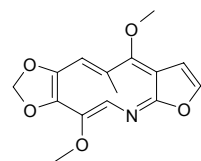
[133830-92-9] $C_{26}H_{26}O_6$ (434.49). Yellowish acicular crystals (methanol–water), mp 143–145°C. **Source:** MAN XING QIAN JIN BA *Flemingia philippinensis* [Syn. *Moghania philippinensis*]. **Ref:** 179.

**7828 Flexicaulin A**

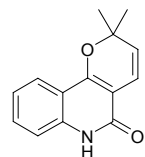
$C_{22}H_{32}O_6$ (392.50). mp 224–226.5°C, $[\alpha]_D^{21} = -99.43^\circ$ ($c = 0.52$, MeOH). **Source:** ROU JING XIANG CHA CAI *Isodon flexicaulis*. **Ref:** 4067.

**7829 Flindersiamine**

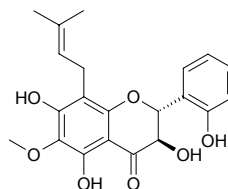
$C_{15}H_{15}NO_5$ (289.29). **Pharm:** Antibacterial (*Staphylococcus aureus* and *Streptococcus faecalis*, moderate). **Source:** Esenbeckia yaaxhokob (leaf). **Ref:** 4929.

**7830 Flindersine**

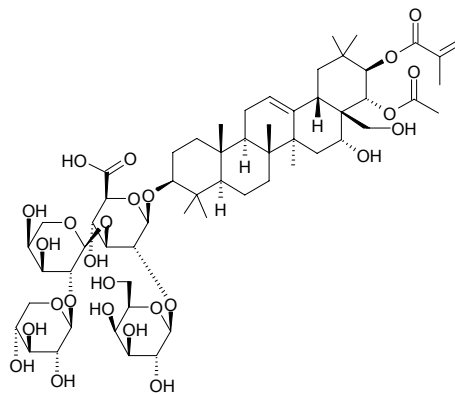
$C_{14}H_{13}NO_2$ (227.27). **Pharm:** Photo-activated antibacterial (*Staphylococcus aureus*)^[4989]; photo-activated antifungal (*Candida albicans* weak)^[4989]; photo-activated DNA binding inactive (16 restriction enzymes)^[4989]. **Source:** JIAN YE YUN XIANG CAO *Haplophyllum acutifolium*, *Sarcomelicope glauca*. **Ref:** 4989, 5175.

**7831 Floranol**

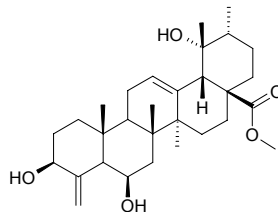
$C_{21}H_{22}O_7$ (386.41). **Source:** DA HUA DI AO DOU *Dioclea grandiflora* (root). **Ref:** 4978.

**7832 Floratheasaponin A**

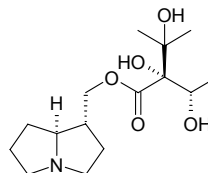
$C_{59}H_{92}O_{26}$ (1217.38). **Pharm:** Antihyperlipidemic^[4537]. **Source:** PU ER CHA *Camellia sinensis* var. *assamica* (flower). **Ref:** 4537.

**7833 Floridic acid methyl ester**

$C_{30}H_{46}O_5$ (486.70). **Pharm:** Anti-inflammatory^[5341]; antiviral. **Source:** MIAN MAO GOU TENG *Uncaria lanosa*. **Ref:** 5341.

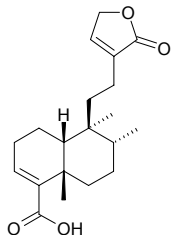
**7834 Floridinine**

[200067-94-3] $C_{15}H_{27}NO_5$ (301.39). Oil, $[\alpha]_D = -8.3^\circ$ ($c = 0.096$, ethanol). **Pharm:** Antifungal (*Fusarium moniliforme*). **Source:** *Heliotropium floridum* var. *latifolium*. **Ref:** 1554.

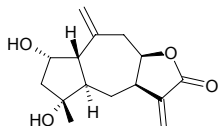


7835 Floridiolide A

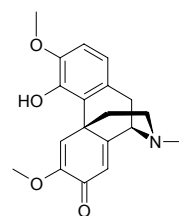
Limbatolide C C₂₀H₂₈O₄ (332.44). Gummy solid, $[\alpha]_D^{23} = -98.231^\circ$ ($c = 0.063$, CHCl₃). **Pharm:** AChE inhibitor (*in vitro*, IC₅₀ = (103.7±0.5)μmol/L, positive control Galanthamine, IC₅₀ = (0.5±0.01)μmol/L)^[4453]; BChE inhibitor (*in vitro*, IC₅₀ = (14.2±0.3)μmol/L, positive control Galanthamine, IC₅₀ = (8.5±0.1)μmol/L)^[4453]. **Source:** GE LUN BI YA BA DOU *Croton schiedeanus* (aerial parts), YOU YAN AO TUO SI TE CAO *Otostegia limbata* (root). **Ref:** 4447, 4453.

**7836 Florilenalin**

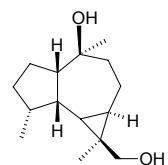
2,4-Dihydroxy-10(14),11(13)-guaiaadien-12,8-olide [54964-49-7] C₁₅H₂₀O₄ (264.32). Oil. **Pharm:** Cytotoxic (hmn H.Ep.-2 cutis cancer in throat, 1μg/mL). **Source:** DUI XIN JU *Helenium autumnale*. **Ref:** 661.

**7837 Floripavine**

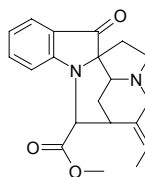
(+)-Salutaridine [1936-18-1] C₁₉H₂₁NO₄ (327.38). mp 197~198°C. **Pharm:** Antineoplastic (W₂₅₆). **Source:** YA PIAN *Papaver somniferum*, DA HONG YING SU *Papaver bracteatum*, JIN DONG YING SU *Papaver orientale*, XIANG BA DOU *Croton balsamifera*, YI KANG BA DOU *Croton salutaris*, YING SU *Papaver somniferum*. **Ref:** 6, 658.

**7838 Flourensadiol**

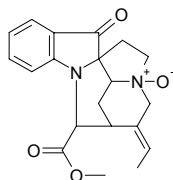
C₁₅H₂₆O₂ (238.37). **Pharm:** Phytotoxin (inhibits radicle growth, *Amaranthus hypochondriacus*, IC₅₀ = 412μmol/L, control 2,4-D, IC₅₀ = 180μmol/L; *Echinochloa crusgalli*, IC₅₀ = 4200μmol/L, control 2,4-D, IC₅₀ = 230μmol/L); CaM interactor (cAMP phosphodiesterase inhibitor, IC₅₀ = 5.2μmol/L, control Chlorpromazine, IC₅₀ = 10.2μmol/L, interacted with bovine-brain calmodulin and inhibited the activation of the calmodulin-dependent enzyme cAMP phosphodiesterase). **Source:** FU CHUI FE LAO JU *Flourensia cernua*. **Ref:** 3433.

**7839 Fluorocarpamine**

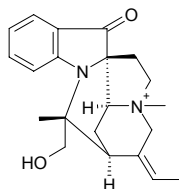
[2254-31-1] C₂₀H₂₂N₂O₃ (338.41). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. **Ref:** 2.

**7840 Fluorocarpamine-N-oxide**

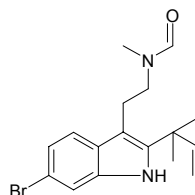
[88746-90-1] C₂₀H₂₂N₂O₄ (354.41). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. **Ref:** 2.

**7841 Fluorocurine**

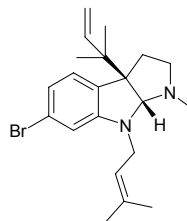
C₂₁H₂₇N₂O₂ (339.46). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 3943.

**7842 Flustrabromine**

C₁₇H₂₁BrN₂O (349.27). **Pharm:** Affinity to nAChR ($\alpha 4\beta 2$ subtype, $K_i > 50000$ nmol/L, control (-)-Nicotine, $K_i = (0.838 \pm 0.132)$ nmol/L; $\alpha 7$ subtype, $K_i > 50000$ nmol/L, (-)-Nicotine, $K_i = (127 \pm 5)$ nmol/L)^[5029]. **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea* **Ref:** 5029.

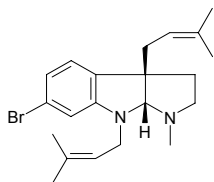
**7843 Flustramine A**

C₂₁H₂₉BrN₂ (389.38). **Pharm:** Affinity to nAChR ($\alpha 4\beta 2$ subtype, $K_i > 50000$ nmol/L, control (-)-Nicotine, $K_i = (0.838 \pm 0.132)$ nmol/L; $\alpha 7$ subtype, $K_i > 50000$ nmol/L, (-)-Nicotine, $K_i = (127 \pm 5)$ nmol/L)^[5029]. **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea*. **Ref:** 5029.

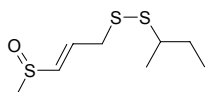


7844 Flustramine B

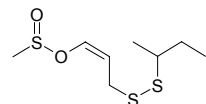
[71239-65-1] C₂₁H₂₉BrN₂ (389.38). Source: BEI HAI XIAN TAI CHONG *Flustra foliacea*. Ref: 1521.

**7845 Foetisulfide A**

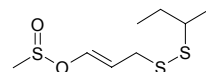
E-3-Methylsulfinyl-2-propenyl *sec*-butyl disulfide C₈H₁₆OS₂ (224.41). Pale yellow oil, [α]_D²⁵ = -36.7° (*c* = 1.1, MeOH). Source: CHOU A WEI *Ferula foetida* (root: yield = 0.0029%). Ref: 4659.

**7846 Foetisulfide B**

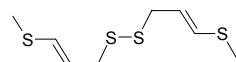
Z-3-Methylsulfinyloxy-2-propenyl *sec*-butyl disulfide C₈H₁₆O₂S₂ (240.41). Pale yellow oil, [α]_D²⁵ = +8.8° (*c* = 0.9, MeOH). Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00051%). Ref: 4659.

**7847 Foetisulfide C**

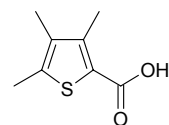
E-3-Methylsulfinyloxy-2-propenyl *sec*-butyl disulfide C₈H₁₆O₂S₂ (240.41). Pale yellow oil, [α]_D²⁵ = +27.5° (*c* = 1.2, MeOH). Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00077%). Ref: 4659.

**7848 Foetisulfide D**

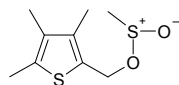
Bis(3-methylthio-2*E*-propenyl) disulfide C₈H₁₄S₄ (238.46). Colorless oil. Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00026%). Ref: 4659.

**7849 Foetithiophene A**

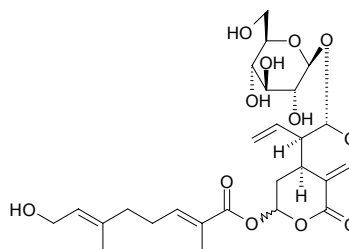
3,4,5-Trimethyl-2-thiophenecarboxylic acid C₈H₁₀O₂S (170.23). Colorless needles, mp 166.0~166.5°C. Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00051%). Ref: 4659.

**7850 Foetithiophene B**

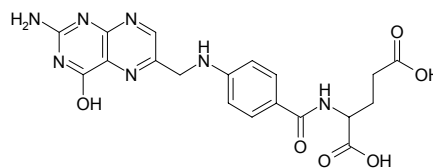
3,4,5-Trimethyl-2-(methylsulfinyloxymethyl) thiophene C₉H₁₄O₂S₂ (218.34). Pale yellow oil. Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00051%). Ref: 4659.

**7851 Foliamenthin**

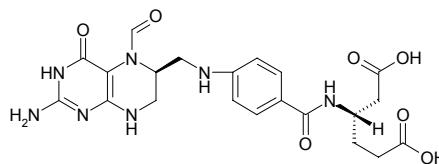
[21848-66-8] C₂₆H₃₆O₁₂ (540.57). mp 194~196°C. Source: SHUI CAI *Menyanthes trifoliata* (the compound was isolated from the plant by Battersby et al. in 1968)^[5505], SHUI CAI GEN *Menyanthes trifoliata*. Ref: 6, 5505.

**7852 Folic acid**

Pteroylglutamic acid; Cytofol; Folipac [59-30-3] C₁₉H₁₉N₇O₆ (441.41). mp 250°C (dec), [α]_D²⁵ = +23° (*c* = 0.5, 0.1 mol NaOH).^[5507] Pharm: Hematopoietic vitamin (used in treatment of megaloblastic anemia due to lack of folic acid). Source: BEI HAI DANG GUI *Angelica acutiloba* var. *sugiyamae*, BO CAI *Spinacia oleracea*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], CU LIU GUO *Hippophae rhamnoides*, DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], HONG CHE ZHOU CAO *Trifolium pratense*, HUANG QI *Astragalus membranaceus*, LI ZHI *Litchi chinensis*, LIN QIN *Malus asiatica*, MANG GUO *Mangifera indica*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SANG YE *Morus alba*, YANG SHI GUO *Syzygium cumini*. Ref: 2, 658, 660, 5507.

**7853 Folinic acid**

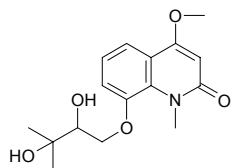
[58-05-9] C₂₁H₂₅N₇O₇ (487.48). mp 248~250°C. Source: BA JIAO HUI XIANG *Illicium verum*, BO CAI *Spinacia oleracea*, CAN DOU YE *Vicia faba*, CU LIU GUO *Hippophae rhamnoides*, DANG GUI *Angelica sinensis*, FENG MI *Apis cerana*, FENG RU *Apis cerana*, HEI DA DOU *Glycine max*, HEI DA DOU YE *Glycine max*, HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)], HONG CHE ZHOU CAO *Trifolium pratense*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG QI *Astragalus membranaceus*, LI ZHI *Litchi chinensis*, MANG GUO *Mangifera indica*, MO GU *Agaricus campestris*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, SANG YE *Morus alba*, YAO YONG PU GONG YING *Taraxacum officinale*. Ref: 6, 660.



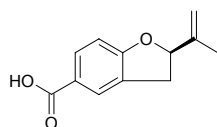
7854 Foliosidine

[2520-38-9] C₁₆H₂₁NO₅ (307.35). mp 141~142°C, [α]_D = +42° (ethanol).

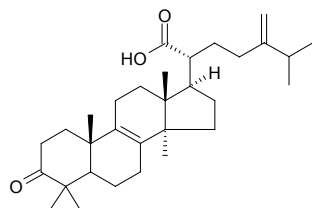
Pharm: Antiarrhythmic (cat, caused by CaCl₂ or adrenaline, 20~30mg/kg iv, the action maintains 20~60min); LD₅₀ (mus, iv) = 209mg/kg. **Source:** DA YE YUN XIANG CAO *Haplophyllum perforatum*. **Ref:** 658.

**7855 Fomannoxin acid**

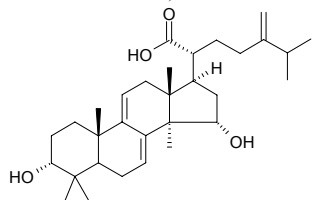
2-Isopropenyl-2,3-dihydrobenzofuran-5-carboxylic acid [84015-64-5] C₁₂H₁₂O₃ (204.23). **Source:** BAI HUA LONG DAN *Gentiana algida*. **Ref:** 704.

**7856 Fomefficinic acid A**

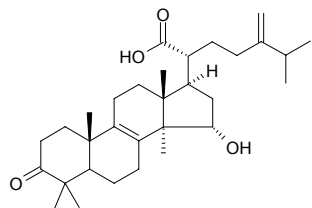
24-Methylene-3-oxo-lanost-8-en-21-oic acid C₃₁H₄₈O₃ (468.73). White needles, mp 201~203°C, [α]_D²⁰ = +4.6° (*c* = 0.06, CHCl₃:MeOH = 1:1). **Source:** A LI HONG *Fomes officinalis*. **Ref:** 2566.

**7857 Fomefficinic acid B**

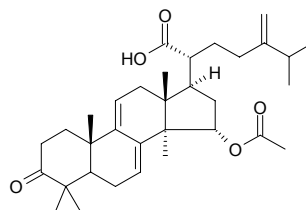
3 α ,15 α -Dihydroxy-24-methylene-lanosta-7,9(11)-dien-21-oic acid C₃₁H₄₈O₄ (484.73). White amorphous powder, mp 194~196°C, [α]_D²⁰ = +25.8° (*c* = 0.05, CHCl₃:MeOH = 1:1). **Source:** A LI HONG *Fomes officinalis*. **Ref:** 2566.

**7858 Fomefficinic acid D**

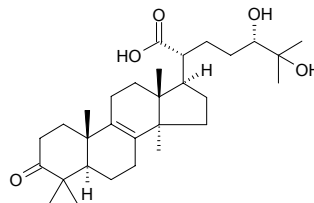
15 α -Hydroxy-3-oxo-24-methylenelanost-8-en-21-oic acid C₃₁H₄₈O₄ (484.73). White amorphous powder, mp 205~207°C, [α]_D²⁰ = +37.5° (*c* = 0.04, CHCl₃:MeOH = 1:1). **Source:** A LI HONG *Fomes officinalis*. **Ref:** 2566.

**7859 Fomefficinic acid E**

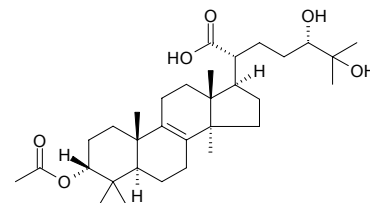
15 α -Acetoxy-3-oxo-24-methylenelanosta-7,9(11)-dien-21-oic acid C₃₃H₄₈O₅ (524.75). White amorphous powder, mp 207~209°C, [α]_D²⁰ = +46.7° (*c* = 0.03, CHCl₃:MeOH = 1:1). **Source:** A LI HONG *Fomes officinalis*. **Ref:** 2566.

**7860 Fomitopic acid A**

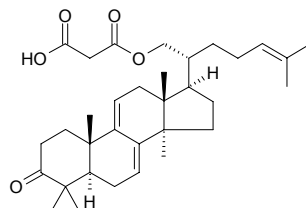
24S,25-Dihydroxy-3-oxolanost-8-en-21-oic acid C₃₀H₄₈O₅ (488.71). Colorless needles (CHCl₃), mp 182~184°C, [α]_D²⁵ = +33.8° (*c* = 1.1, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, COX-1 inhibitor, 10 μ g/mL, InRt = 18.1%, COX-2 inhibitor, IC₅₀ = 1.15 μ mol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0036%fw). **Ref:** 4798.

**7861 Fomitopic acid B**

24,25-Dihydroxy-3 α -acetoxy-lanost-8-en-21-oic acid C₃₂H₅₂O₆ (532.77). Amorphous powder, [α]_D²⁵ = +16.7° (*c* = 0.3, MeOH). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.00058%fw). **Ref:** 4798.

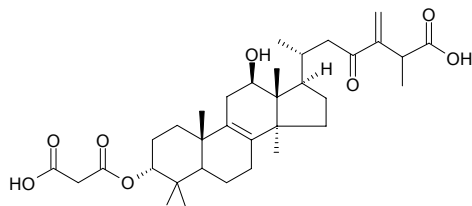
**7862 Fomitopic acid B**

C₃₃H₄₈O₅ (524.75). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.017%fw). **Ref:** 1521, 4798.

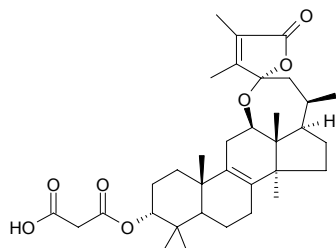


7863 Fomitopsin A

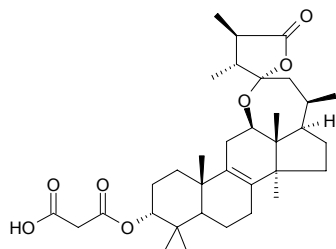
3-Carboxyacetyloxy-24-exomethylene-12 β -hydroxy-23-oxo-lanost-8-en-26-oic acid C₃₄H₅₀O₈ (586.77). [α]_D²⁰ = +5.5° (c = 0.4, CHCl₃). Source: CENG KONG JUN *Fomitopsis spraguei*. Ref: 5302.

**7864 Fomitopsin B**

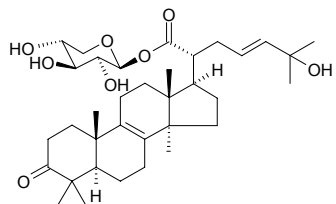
C₃₄H₄₈O₇ (568.76). Source: CENG KONG JUN *Fomitopsis spraguei*. Ref: 5302.

**7865 Fomitopsin C**

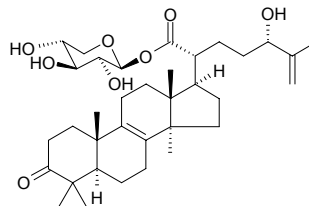
C₃₄H₅₀O₇ (570.77). Source: CENG KONG JUN *Fomitopsis spraguei*. Ref: 5302.

**7866 Fomitoside A**

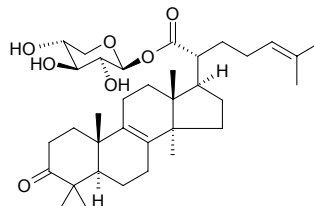
C₃₅H₅₄O₈ (602.82). Amorphous powder, [α]_D²⁵ = +1.1° (c = 0.2, MeOH). Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.00055%fw). Ref: 4798.

**7867 Fomitoside B**

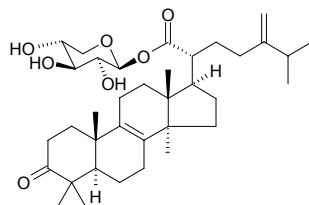
C₃₅H₅₄O₈ (602.82). Amorphous powder, [α]_D²⁵ = -18.3° (c = 0.2, MeOH). Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.00091%fw). Ref: 4798.

**7868 Fomitoside C**

3-Oxolanosta-8,24-dien-21-oic acid 21-O- β -D-xylopyranoside C₃₅H₅₄O₇ (586.82). Amorphous powder, [α]_D²⁵ = +31.4° (c = 2.4, MeOH). Pharm: Anti-inflammatory (*in vitro*, COX-1 inhibitor, IC₅₀ = 1.91mmol/L, COX-2 inhibitor, IC₅₀ = 5.11mmol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0044%fw). Ref: 4798.

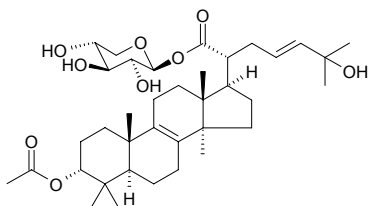
**7869 Fomitoside D**

3-Oxolanosta-8,24(31)-dien-21-oic acid 21-O- β -D-xylopyranoside C₃₆H₅₆O₇ (600.84). Amorphous powder, [α]_D²⁵ = +36.6° (c = 0.6, MeOH). Pharm: Anti-inflammatory (*in vitro*, COX-1 inhibitor, IC₅₀ = 3.33mmol/L, COX-2 inhibitor, IC₅₀ = 2.39mmol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0054%fw). Ref: 4798.

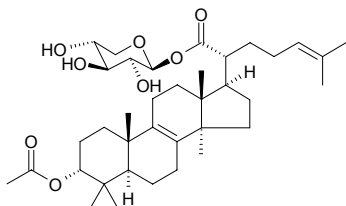


7870 Fomitoside E

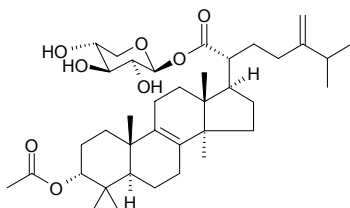
25-Hydroxy-3 α -acetoxylanost-8-en-21-oic acid 21-*O*- β -D-xylopyranoside C₃₇H₅₈O₉ (646.87). Amorphous powder, $[\alpha]_D^{25} = +1.6^\circ$ ($c = 0.7$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, COX-1 inhibitor, 10 μ g/mL, InRt = 57.2%, COX-2 inhibitor, IC₅₀ = 0.15 μ mol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0018%fw). **Ref:** 4798.

**7871 Fomitoside F**

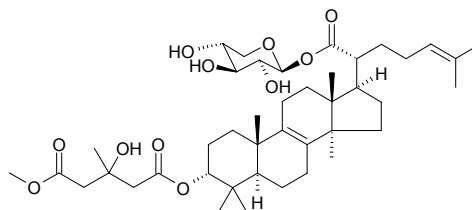
C₃₇H₅₈O₈ (630.87). Colorless needles (MeOH), mp 185–186.6°C, $[\alpha]_D^{25} = -3.4^\circ$ ($c = 2.6$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, COX-1 inhibitor, 10 μ g/mL, InRt = 27.5%, COX-2 inhibitor, IC₅₀ = 1.13 μ mol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.010%fw). **Ref:** 4798.

**7872 Fomitoside G**

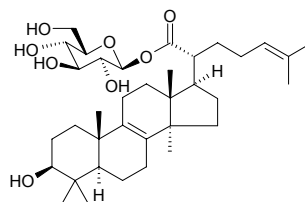
3 α -Acetoxylanosta-8,24(31)-dien-21-oic acid 21-*O*- β -D-xylopyranoside C₃₈H₆₀O₈ (644.9). Amorphous powder, $[\alpha]_D^{25} = +5.0^\circ$ ($c = 0.7$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, COX-1 inhibitor, 10 μ g/mL, InRt = 21.7%, COX-2 inhibitor, IC₅₀ = 18.5 μ mol/L; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0018%fw). **Ref:** 4798.

**7873 Fomitoside H**

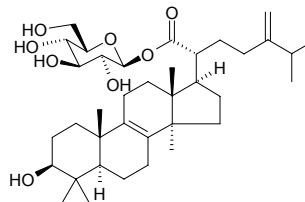
C₄₂H₆₆O₁₁ (746.99). Amorphous powder, $[\alpha]_D^{25} = -67.4^\circ$ ($c = 0.2$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, COX-1 inhibitor, IC₅₀ = 73.9 μ mol/L, COX-2 inhibitor, 10 μ g/mL, InRt = 70.1%; control Indomethacin, COX-1 inhibitor, IC₅₀ = 0.10 μ mol/L; COX-2 inhibitor, IC₅₀ = 0.60 μ mol/L). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.0025%fw). **Ref:** 4798.

**7874 Fomitoside I**

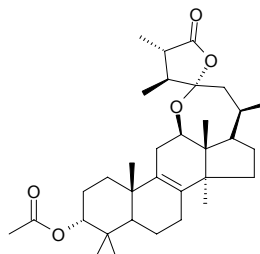
Trametenolic acid 21-*O*- β -D-glucopyranoside C₃₆H₅₈O₈ (618.86). Amorphous powder, $[\alpha]_D^{25} = +1.77^\circ$ ($c = 0.1$, MeOH). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.00055%fw). **Ref:** 4798.

**7875 Fomitoside J**

Eburicic acid 21-*O*- β -D-glucopyranoside C₃₇H₆₀O₈ (632.89). Amorphous powder, $[\alpha]_D^{25} = +22.1^\circ$ ($c = 0.3$, MeOH). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (sporocarp: yield = 0.00064%fw). **Ref:** 4798.

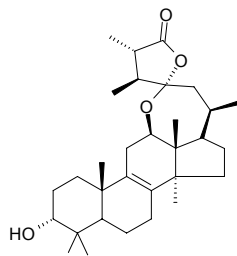
**7876 Fomlactone A**

C₃₃H₅₀O₅ (526.76). White needles (MeOH), mp 184–186°C, $[\alpha]_D^{15} = +30^\circ$ ($c = 0.02$, CHCl₃). **Source:** FEN ROU CENG KONG JUN *Fomes cajanderi* (sporocarp: yield = 0.0018%dw). **Ref:** 4726.

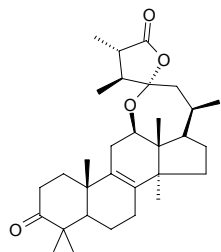


7877 Fomlactone B

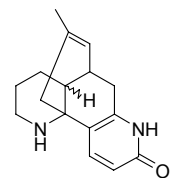
$C_{31}H_{48}O_4$ (484.73). White needles (MeOH), mp 278~280°C, $[\alpha]_D^{15} = +37^\circ$ ($c = 0.06$, $CHCl_3$). Source: FEN ROU CENG KONG JUN *Fomes cajanderi* (sporocarp: yield = 0.0020%dw). Ref: 4726.

**7878 Fomlactone C**

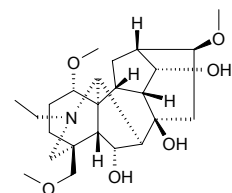
$C_{31}H_{46}O_4$ (482.71). White crystals (MeOH), mp 246~250°C, $[\alpha]_D^{15} = +40^\circ$ ($c = 0.03$, $CHCl_3$). Source: FEN ROU CENG KONG JUN *Fomes cajanderi* (sporocarp: yield = 0.00012%dw). Ref: 4726.

**7879 Fordimine**

[103548-82-9] $C_{16}H_{20}N_2O$ (256.35). Acicular crystals, mp 149~150°C (dec). Source: HUA NAN MA WEI SHAN *Phlegmarius fordii*. Ref: 95.

**7880 Foresticine**

[91794-15-9] $C_{24}H_{39}NO_6$ (437.58). Source: LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*]. Ref: 1521.

**7881 Formaldehyde**

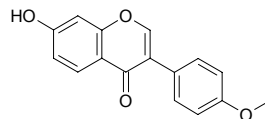
Methanal [50-00-0] CH_2O (30.03). mp $-92^\circ C$, bp $-21^\circ C$. Source: CU vinegar, NIU BANG GEN *Arctium lappa*, YANG SHI CAO *Achillea millefolium*. Ref: 6.

**7882 Formic acid**

Methanoic acid [64-18-6] CH_2O_2 (46.03). mp $8.4^\circ C$, bp $100.5^\circ C$. Pharm: Astringent; corrosion. Source: BAI GUO *Ginkgo biloba*, BAI BU *Stemona tuberosa*, QIAN MA *Urtica cannabina*, KUAN YE XIANG PU *Typha latifolia*. Ref: 2, 658, 660.

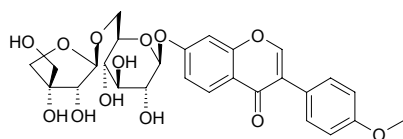
**7883 Formononetin**

Pratol; 7-Hydroxy-4'-methoxyisoflavone; Formononetin [485-72-3] $C_{16}H_{12}O_4$ (268.27). mp 265~266°C; 257~258°C; 256~257°C. Pharm: Diuretic (in clinic); estrogenic activity; antihypercholesterolemic (male rat, hyperlipemia, due to Triton WR1339); hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μ mol/L, InRt = (6.3 \pm 1.0)%), inactive, control Silybin, 100 μ mol/L, InRt = (77.0 \pm 5.5)%^[4095]; antimalarial (*Plasmodium falciparum* PoW, IC₅₀ > 50 μ g/mL, control Chloroquine diphosphate, IC₅₀ = (0.006 \pm 0.002) μ g/mL; Dd2, IC₅₀ < 50 μ g/mL, Chloroquine diphosphate, IC₅₀ = (0.063 \pm 0.01) μ g/mL)^[5208]; antibacterial (*Escherichia coli*, MIA = 50.0 μ g, control Chloramphenicol, MIA = 0.001 μ g; *Bacillus subtilis*, MIA = 50.0 μ g, Chloramphenicol, MIA = 0.001 μ g; *Staphylococcus aureus*, MIA = 10.0 μ g, Chloramphenicol, MIA = 0.001 μ g)^[3785]; antifungal (*Candida mycoderma*, MIA = 10.0 μ g, Miconazole = MIA = 0.0001 μ g)^[3785]; antioxidant (DPPH scavenger, TLC detection limit = 0.5 μ g, IC₅₀ = 960 μ g/mL; control Quercetin, TLC detection limit < 0.05 μ g, IC₅₀ = 7 μ g/mL; Gallic acid, TLC detection limit < 0.05 μ g, IC₅₀ = 4 μ g/mL; Ascorbic acid, TLC detection limit < 0.10 μ g, IC₅₀ = 18 μ g/mL)^[3785]. Source: AO DA LI YA YAN DIAN *Baptisia australis*, BO TE LAN DA JI *Euphorbia portlandica* (whole herb), CI GUO GAN CAO *Glycyrrhiza pallidiflora*, CI MANG BING HUA *Ononis spinosa*, DI XIA CHE ZHOU CAO *Trifolium subterraneum*, DUO MAI NAN MEI ROU DOU KOU *Viola multinervia*, GAN CAO *Glycyrrhiza uralensis*, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GUANG GUO GAN CAO *Glycyrrhiza glabra*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG QI *Astragalus membranaceus* (dried root: mean content of 5 origins = 0.0068%)^[5519], HUI HUI DOU *Cicer arietinum*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], LUO HUA NAN MEI ROU DOU KOU *Viola caducifolia*, MENG GU HUANG QI *Astragalus mongholicus* (dried root: mean content of 4 origins = 0.0032%)^[5508], MU XU *Medicago sativa*, SI TE WEN HUANG TAN *Dalbergia stevensonii*, WU CI KE YA SHU *Andira inermis* (leaf), XI A LA HUANG TAN *Dalbergia cearensis*, YI KA TUO YE HUANG TAN *Dalbergia ecastophyllum*, ZI SUI HUIAI *Amorpha fruticosa*, ZI TAN *Pterocarpus indicus*, *Baptisia* spp., family Fabaceae spp., *Bolusanthus speciosus* (root wood), occurs in many plants. Ref: 6, 2, 6, 243, 372, 379, 658, 660, 1521, 3785, 4095, 5019, 5208, 5508, 5519.

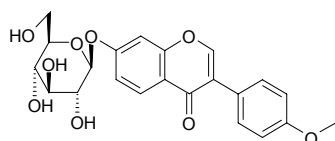


7884 Formononetin-7-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside

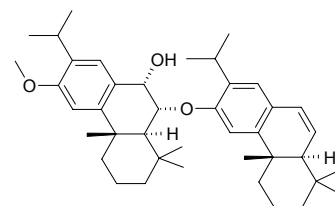
$C_{27}H_{30}O_{13}$ (562.53). White powder, $[\alpha]_D^{25} = +78.2^\circ$ ($c = 0.25$, MeOH:H₂O = 1:0.5). **Source:** FENG CHENG JI XUE TENG *Millettia nitida* var. *hirsutissima* (stem). **Ref:** 4455.

**7885 Formononetin-7-glucoside**

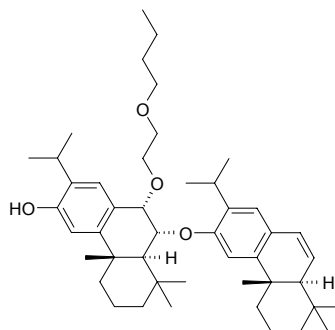
Ononin; Ononoside [486-62-4] $C_{22}H_{22}O_9$ (430.42). **Source:** GAN CAO *Glycyrrhiza uralensis* (root and rhizome: mean content of 4 origins = 0.037%^[5508]), GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.032%^[5508]), HUANG GAN CAO *Glycyrrhiza kansuensis* (root and rhizome: content = 0.0279%^[5508]), ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.011%^[5508]). **Ref:** 2, 660, 5508.

**7886 Formosadimer A**

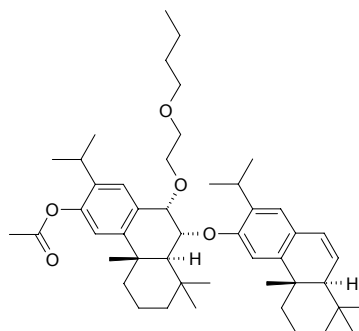
6,7-Dehydroabieta-8,11,13-trien-12-yl 7a-hydroxy-12-methoxyabieta-8,11,13-trien-6a-yl ether $C_{41}H_{58}O_3$ (598.92). Gum, $[\alpha]_D^{23} = +45.9^\circ$ ($c = 0.4$, MeOH). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (bark). **Ref:** 4531.

**7887 Formosadimer B**

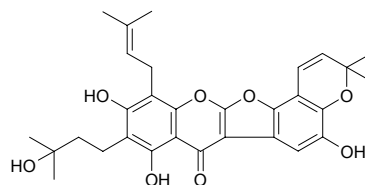
7a-Butoxyethoxy-12-hydroxyabieta-6a-yl 6,7-dehydroabieta-8,11,13-trien-12-yl ether $C_{46}H_{68}O_4$ (685.05). Gum, $[\alpha]_D^{25} = +85.8^\circ$ ($c = 0.3$, MeOH). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (bark). **Ref:** 4531.

**7888 Formosadimer C**

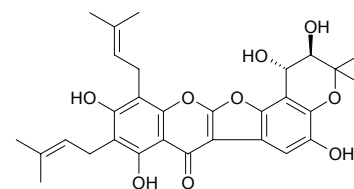
12-Acetoxy-7a-butoxyethoxyabieta-6a-yl 6,7-dehydroabieta-8,11,13-trien-12-yl ether $C_{48}H_{70}O_5$ (727.09). Gum, $[\alpha]_D^{25} = +37.0^\circ$ ($c = 0.2$, MeOH). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (bark). **Ref:** 4531.

**7889 Formosanatin A**

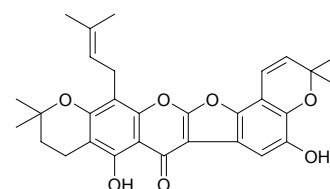
{5,7,5'-Trihydroxy-6-(3-hydroxy-3-methylbutyl)-8-(γ,γ-dimethylallyl)-[6''',6'''-dimethylpyrano-(2''',3''':4',3')] }-coumaronochromone $C_{30}H_{32}O_8$ (520.58). Colorless needles, mp 221~223°C. **Source:** TAI WAN SHAN DOU GEN *Euchresta formosana*. **Ref:** 1977.

**7890 Formosanatin B**

{5,7,5',4''',5''''-Pentahydroxy-6,8-bis-(γ,γ-dimethylallyl)-[6''',6'''-dimethyl-4''',5''''-dihydropyrano-(2''',3''':4',3')] }-coumaronochromone $C_{30}H_{32}O_9$ (536.58). Yellow needles, mp 243~245°C, $[\alpha]_D^{24} = -40^\circ$ ($c = 0.05$, CHCl₃). **Source:** TAI WAN SHAN DOU GEN *Euchresta formosana*. **Ref:** 1977.

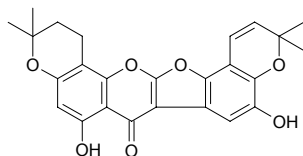
**7891 Formosanatin C**

{5,5'-Dihydroxy-8-(γ,γ-dimethylallyl)-[6'',6''-dimethyl-4'',5''-dihydropyrano-(2'',3'':7,6)]-[6''',6'''-dimethylpyrano-(2''',3''':4',3')] }-coumaronochromone $C_{30}H_{30}O_7$ (502.57). Pale yellow Needles, mp 248~250°C. **Source:** TAI WAN SHAN DOU GEN *Euchresta formosana*. **Ref:** 1977.

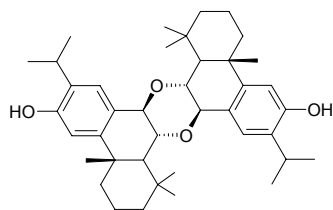


7892 Formosanatin D

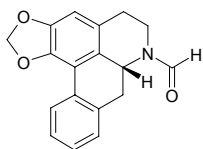
{5,5'-Dihydroxy-8-[6'',6''-dimethyl-4'',5''-dihydropyrano-(2'',3'':7,8)]-[6''',6'''-dimethylpyrano-(2''',3''':4',3')]}}-coumaronochromone C₂₅H₂₂O₇ (434.45). Yellow needles (CHCl₃), mp 246~248°C. Source: TAI WAN SHAN DOU GEN *Euchresta formosana*. Ref: 1977.

**7893 Formosaninol**

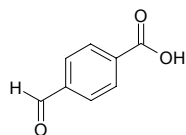
C₄₀H₅₆O₄ (600.89). Colorless solid, [α]_D²⁰ = +36.3° (c = 0.48, CHCl₃). Source: RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). Ref: 4268.

**7894 N-Formylanonaine**

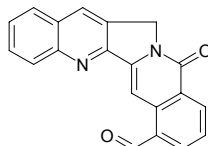
C₁₈H₁₅NO₃ (293.33). Pharm: Platelet aggregation inhibitor (rat blood): 2~5 μmol/L ADP-induced, IC₅₀ = 930 μmol/L, control Acetylsalicylic acid, IC₅₀ > 1000 μmol/L; 2~5 μg/mL collagen-induced, IC₅₀ = 6.9 μmol/L, Acetylsalicylic acid, IC₅₀ = 420 μmol/L; 1~4 μmol/L epinephrine-induced with threshold concentration of collagen (0.8~1.0 μg/mL), IC₅₀ = 0.24 μmol/L, Acetylsalicylic acid, IC₅₀ = 53 μmol/L; 10~40 μmol/L AA-induced with threshold concentration of collagen (0.8~1.0 μg/mL), IC₅₀ = 0.27 μmol/L, Acetylsalicylic acid, IC₅₀ = 66 μmol/L; 1~5 μmol/L U46619-induced with threshold concentration of collagen (0.8~1.0 μg/mL), IC₅₀ = 3.8 μmol/L, Acetylsalicylic acid, IC₅₀ = 340 μmol/L; 1~2 μmol/L hmn U46619 in 1 mmol/L acetylsalicylic acid -induced, IC₅₀ > 100 μmol/L, control Pentolamine, IC₅₀ > 100 μmol/L, control Yohimbine, IC₅₀ > 100 μmol/L)^[5381]. Source: RI BEN HOU PO *Magnolia obovata* (leaf). Ref: 5381.

**7895 p-Formyl benzoic acid**

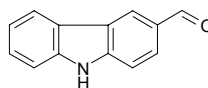
C₈H₆O₃ (150.14). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**7896 20-Formylbenzo[6,7]indolizino[1,2-b]quinolin-11 (13H)-one**

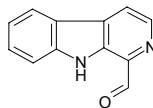
C₂₀H₁₂N₂O₂ (312.33). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.

**7897 3-Formylcarbazole**

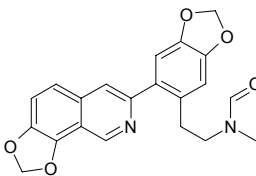
C₁₃H₉NO (195.22). Pharm: Antitubercular (MIC > 128 μg/mL, control Rifampin, MIC = (0.040±0.017) μg/mL)^[5072]; cytotoxic (Vero, IC₅₀ > 102 μg/mL, Rifampin, IC₅₀ = 100 μg/mL)^[5072]; antibacterial (*Mycobacterium tuberculosis*, MIC = 100 μg/mL, control Isoniazide, MIC = 0.040~0.090 μg/mL, Kanamycin sulfate, MIC = 2.0~5.0 μg/mL)^[5367]; antifungal (*Candida albicans*, IC₅₀ = 13.6 μg/mL, control Amphotericin, IC₅₀ = 0.01 μg/mL)^[5367]. Source: SHAN HUANG PI *Clausena excavata*, YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 5072, 5367.

**7898 1-Formyl-β-carboline**

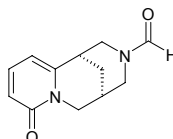
[20127-63-3] C₁₂H₈N₂O (196.21). Orange crystals, mp 200~202°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**7899 N-Formylecorydamine**

[In DNP] C₂₁H₁₈N₂O₅ (378.39). mp 159.5~160.5°C. Source: ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

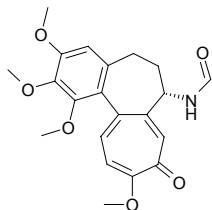
**7900 N-Formylcytisine**

[53007-06-0] C₁₂H₁₄N₂O₂ (218.26). Colorless acicular crystals, mp 174~176°C, [α]_D = -233° (c = 0.16, EtOH). Source: MU MA DOU *Thermopsis lanceolata*. Ref: 699.

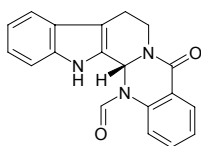


7901 N-Formyl-N-deacetylcolchicine

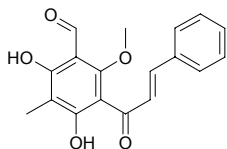
$C_{21}H_{23}NO_6$ (385.42). mp 264~266°C. Source: CAO BEI MU *Iphigenia indica*. Ref: 6.

**7902 14-Formyldihydorutaecarpine**

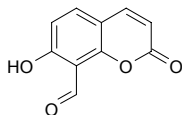
[68353-23-1] $C_{19}H_{15}N_3O_2$ (317.35). Source: WU ZHU YU *Evodia rutaecarpa* (dried and almost ripe fruit: content scope of 7 origins = trace~0.21%, mean content = 0.04%^[5508]). Ref: 1521, 5508.

**7903 3'-Formyl-4',6'-dihydroxy-2'-methoxy-5'-methylchalcone**

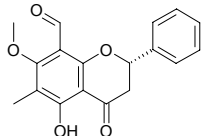
$C_{18}H_{16}O_5$ (312.33). Orange yellow needles (MeOH), mp 123~124°C. Source: SHUI RONG *Cleistocalyx operculatus* (bud). Ref: 3768.

**7904 8-Formyl-7-hydroxycoumarin**

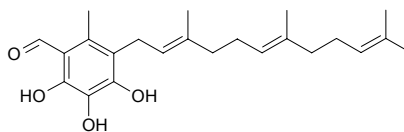
$C_{10}H_6O_4$ (190.16). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (12.0±2.3)% (viability = 60%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC_{50} = 129mol ratio/32 pmol TPA, β -Carotene, IC_{50} = 400mol ratio/32 pmol TPA, Curcumin, IC_{50} = 341mol ratio/32 pmol TPA). Source: YOU PU TAO YPU ZA JIAO ZHONG *Citrus grandis* cv. x *Citrus paradisi*. Ref: 5048.

**7905 (2S)-8-Formyl-5-hydroxy-7-methoxy-6-methylflavanone**

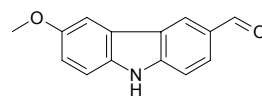
$C_{18}H_{16}O_5$ (312.33). Yellow needles (MeOH), mp 154~155°C, $[\alpha]_D^{25} = -2.4^\circ$ ($c = 0.01$, MeOH). Source: SHUI RONG *Cleistocalyx operculatus* (bud). Ref: 3768.

**7906 1-Formyl-3-hydroxyneogrifolin**

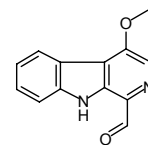
$C_{23}H_{32}O_4$ (372.51). Yellow needles, mp 83~84°C. Source: RE BEN MO GU *Albatrellus ovinus*. Ref: 2005.

**7907 3-Formyl-6-methoxycarbazole**

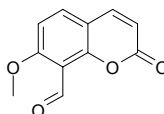
$C_{14}H_{11}NO_2$ (225.25). Pharm: Antitubercular (MIC = (42.3±0.5)µg/mL, control Rifampin, MIC = (0.040±0.017)µg/mL); cytotoxic vero, IC_{50} = 101µg/mL, Rifampin, IC_{50} = 100µg/mL^[5072]. Source: YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 5072.

**7908 1-Formyl-4-methoxy-β-carboline**

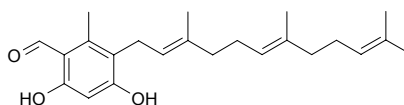
Kumujancine [92631-69-1] $C_{13}H_{10}N_2O_2$ (226.24). Yellowish needle crystals, mp 209~210°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**7909 8-Formyl-7-methoxycoumarin**

$C_{11}H_8O_4$ (204.18). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (19.5±1.7)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC_{50} = 217mol ratio/32 pmol TPA, β -Carotene, IC_{50} = 400mol ratio/32 pmol TPA, Curcumin, IC_{50} = 341mol ratio/32 pmol TPA). Source: CHENG ZI *Citrus junos*, *Citrus rugulosa*, *Citrus sulcata*. Ref: 5048.

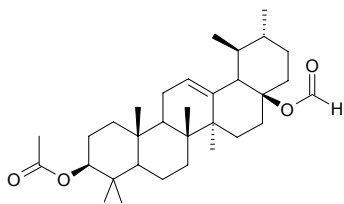
**7910 1-Formylneogrifolin**

$C_{23}H_{32}O_3$ (356.51). White plates, mp 98~102°C. Source: RE BEN MO GU *Albatrellus ovinus*. Ref: 2005.

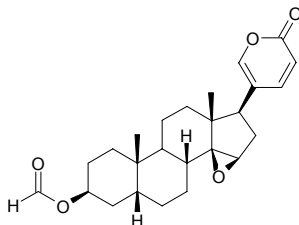


7911 17 β -Formyloxy-3 β -acetyloxy-28-nor-urs-12-ene

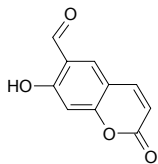
C₃₂H₅₀O₄ (498.75). Colorless needles (MeOH), mp 203~204°C, [α]_D²⁰ = +59° (*c* = 0.05, CHCl₃). **Pharm:** Cytotoxic (HL-60 cells, IC₅₀ = (83±24)μmol/L). **Source:** ZHI ZHUANG E AN *Eucalyptus cladocalyx* (leaf). **Ref:** 5259.

**7912 3 β -Formyloxyresibufogenin**

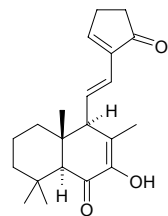
C₂₅H₃₂O₅ (412.53). Colorless solid, [α]_D²¹ = +12.0° (*c* = 0.1, CH₃OH). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 3.4μg/mL; HL-60, IC₅₀ = 1μg/mL; MH-60, IC₅₀ = 8.1μg/mL; BXPC3, IC₅₀ = 1.6μg/mL; MCF7, IC₅₀ = 0.6μg/mL; SF268, IC₅₀ = 0.38μg/mL; NCI-H460, IC₅₀ = 0.53μg/mL; KM20L2, IC₅₀ = 0.54μg/mL; DU145, IC₅₀ = 0.42μg/mL). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 3082.

**7913 6-Formylumbelliferone**

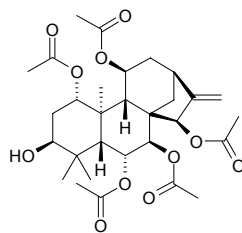
C₁₀H₆O₄ (190.16). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (44.9±1.2)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC₅₀ = 449mol ratio/32 pmol TPA, β -Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA). **Source:** *Citrus medica* var. *etrog*. **Ref:** 5048.

**7914 Forrestiin A**

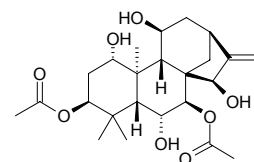
[163597-22-6] C₂₀H₂₆O₄ (330.43). Acicular crystals, [α]_D¹⁹ = +105.6° (*c* = 0.71, chloroform). **Pharm:** Cytotoxic (KB *in vitro*, IC₅₀ = 18.96μg/mL). **Source:** YUAN BAN JIANG HUA *Hedychium forrestii*. **Ref:** 322.

**7915 Forrestin A**

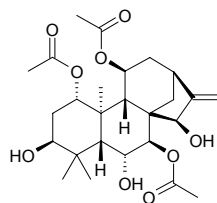
C₃₀H₄₂O₁₁ (578.66). mp 276~278°C, [α]_D = -27.93° (*c* = 0.54, MeOH). **Source:** ZI E XIANG CHA CAI *Isodon forrestii*. **Ref:** 4067.

**7916 Forrestin B**

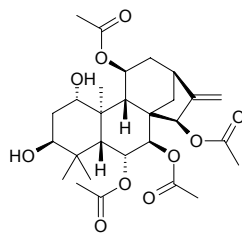
C₂₄H₃₆O₈ (452.55). mp 228~229°C. **Source:** ZI E XIANG CHA CAI *Isodon forrestii*. **Ref:** 4067.

**7917 Forrestin C**

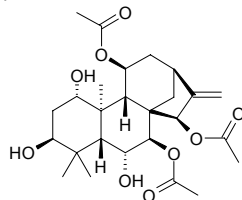
C₂₆H₃₈O₉ (494.59). mp 291~292°C, [α]_D = -29.44° (*c* = 0.523, MeOH). **Source:** XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.00073%dw), ZI E XIANG CHA CAI *Isodon forrestii*. **Ref:** 4067, 4640.

**7918 Forrestin D**

C₂₈H₄₀O₁₀ (536.63). mp 136~138°C, [α]_D = -46.01° (*c* = 0.489, MeOH). **Source:** ZI E XIANG CHA CAI *Isodon forrestii*. **Ref:** 4067.

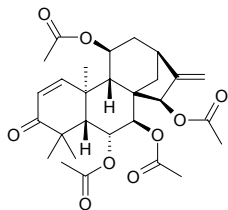
**7919 Forrestin E**

C₂₆H₃₈O₉ (494.59). mp 251~254°C. **Source:** ZI E XIANG CHA CAI *Isodon forrestii*. **Ref:** 4067.

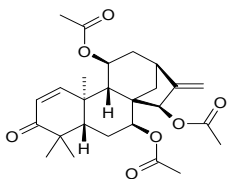


7920 Forrestin F

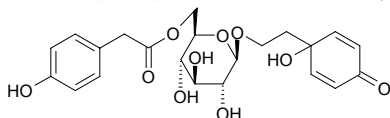
$C_{28}H_{36}O_9$ (516.59). mp 255~256°C, $[\alpha]_D = -112.2^\circ$ ($c = 0.55$, MeOH). Source: ZI E XIANG CHA CAI *Isodon forrestii*. Ref: 4067.

**7921 Forrestin G**

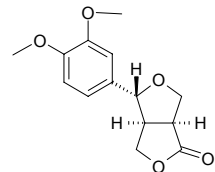
$C_{26}H_{34}O_7$ (458.56). mp 204~206°C, $[\alpha]_D = -69.88^\circ$ ($c = 0.508$, MeOH). Source: ZI E XIANG CHA CAI *Isodon forrestii*. Ref: 4067.

**7922 Forsythenside A**

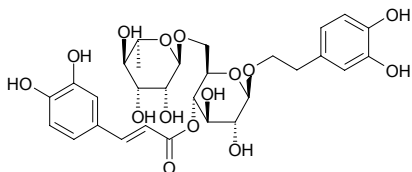
$C_{22}H_{26}O_{10}$ (450.45). Source: LIAN QIAO *Forsythia suspensa*. Ref: 8.

**7923 Forsythenside B**

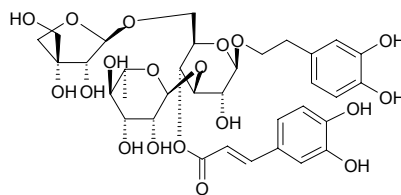
$C_{14}H_{16}O_5$ (264.28). Source: LIAN QIAO *Forsythia suspensa*. Ref: 8.

**7924 Forsythoside A**

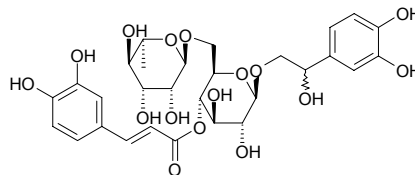
Forsythiaside [79916-77-1] $C_{29}H_{36}O_{15}$ (624.60). Pale-yellowish powder + 2H₂O, mp 144~150°C, $[\alpha]_D^{20} = -18.6^\circ$ (EtOH). Pharm: Immunomodulator (selectively inhibits formation of 5-HETE and leukotriene LTB₄, which are products of 5-lipoxygenase, IC₅₀ = 1.92 μmol/L and 1.01 μmol/L respectively); 5-HETE production inhibitor (IC₅₀ = 2.50 μmol/L); antiallergic; antiasthmatic; cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 110 μmol/L); leucine aminopeptidase inhibitor (competitive, K_i = 8.0 μmol/L); antibacterial (strong action for 11 pathogenic bacteria, including plant pathogenic bacteria); free radical scavenger; 5-lipoxygenase inhibitor (rat peritoneum cells and hmn leucocyte *in vitro*). Source: CHAO XIAN LIAN QIAO *Forsythia koreana*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], LIAN QIAO *Forsythia suspensa* (green fruit: mean content = 1.31%, ripe fruit: mean content = 0.64%^[5508]). Ref: 2, 47, 658, 1639, 1640, 1641, 1642, 5508.

**7925 Forsythoside B**

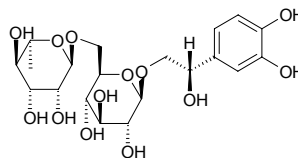
$C_{34}H_{44}O_{19}$ (756.72). Colorless amorphous powder, $[\alpha]_D^{20} = -66^\circ$ ($c = 0.1$, MeOH). Pharm: Antioxidant (*in vitro* inhibits LDL peroxidation, Cu²⁺-induced and AAPH-induced)^[5370]; inhibits minimally oxidized LDL-induced cellular toxicity (cultured bovine aortic endothelial cells, BAEC)^[5370]; antioxidant (DPPH free radical scavenger, IC₅₀ = 113 μmol/L, control Ascorbic acid IC₅₀ = 129 μmol/L)^[5449]; antitrypanosomal (*Trypanosoma b. rhodesiense*, IC₅₀ = 5.8 μg/mL, control Melarsoprol, IC₅₀ = 0.00098 μg/mL; *Trypanosoma cruzi*, IC₅₀ > 90 μg/mL, control Benznidazole, IC₅₀ = 1.06 μg/mL)^[5009]; antileishmanial (*Leishmania donovani*, IC₅₀ = 11.4 μg/mL, control Miltefosine, IC₅₀ = 0.102 μg/mL)^[5009]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 50 μg/mL, control Artemisinin, IC₅₀ = 0.0022 μg/mL)^[5009]; cytotoxic (L6, IC₅₀ = 70.1 μg/mL, control Podophyllotoxin, IC₅₀ = 0.008 μg/mL)^[5009]. Source: LIAN QIAO *Forsythia suspensa*, OU XIA ZHI CAO *Marrubium vulgare* (aerial parts), ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*, ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 2, 5009, 5370, 5449.

**7926 Forsythoside C**

Suspensaside $C_{29}H_{36}O_{16}$ (640.60). Powder, mp 177~181°C, $[\alpha]_D^{18} = -18.7^\circ$ ($c = 1.7$, MeOH). Pharm: Antibacterial; free radical scavenger; inhibits metabolism of arachidonic acid (in leucocytes); 5-lipoxygenase inhibitor (rat, peritoneum cells); cAMP phosphodiesterase inhibitor; used in treatment of asthma and allergic disease. Source: LIAN QIAO *Forsythia suspensa*. Ref: 47, 658.

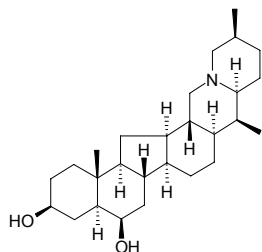
**7927 Forsythoside D**

Decaffeoyl forsythoside C [84233-74-9] $C_{20}H_{30}O_{13}$ (478.45). $[\alpha]_D = -30.5^\circ$ (methanol). Pharm: Antibacterial (*Staphylococcus aureus*, MIC ≤ 2 mmol/L). Source: LIAN QIAO *Forsythia suspensa*. Ref: 1037.

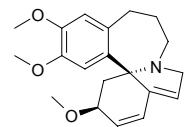


7928 Forticine

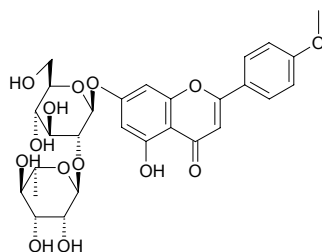
(20S,22S,25S)-5 α -Cevanine-3 β ,6 β -diol C₂₇H₄₅NO₂ (415.67). Colorless needle, mp 221~223°C (dec), [α]_D²³ = -52° (c = 0.5, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ > 500 μ mol/L, control Eserine, IC₅₀ = (0.41 \pm 0.01) μ mol/L); BChE inhibitor (IC₅₀ = (100.5 \pm 0.5) μ mol/L, control Eserine, IC₅₀ = (0.86 \pm 0.01) μ mol/L). **Source:** XI BEI MU *Fritillaria imperialis* (bulb). **Ref:** 4217.

**7929 Fortuneine**

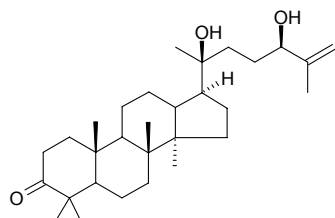
[87340-25-9] C₂₀H₂₅NO₃ (327.43). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2.

**7930 Fortunellin**

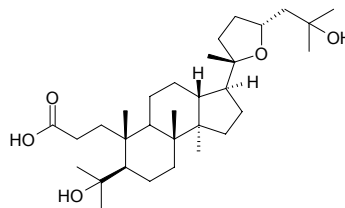
[20633-93-6] C₂₈H₃₂O₁₄ (592.56). mp 214~216°C. **Source:** JIN JU *Fortunella margarita*, JIN DAN *Fortunella crassifolia*. **Ref:** 6, 660.

**7931 Fouquierone**

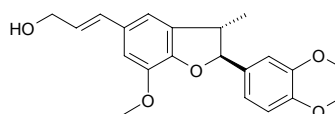
Dammar-25-ene-20,24-diol-3-one C₃₀H₅₀O₃ (458.73). White powder, [α]_D²⁵ = +58° (c = 0.16, CHCl₃). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (stem cortex). **Ref:** 4111.

**7932 Foveolin B**

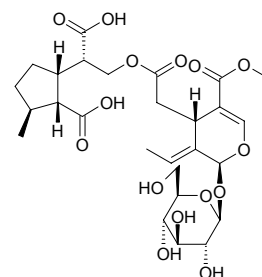
[220358-68-9] C₃₁H₅₄O₅ (506.77). **Source:** DA YE SHU LAN *Aglaia elliptifolia* (leaf: yield = 0.00020%dw), FENG CHAO MI ZI LAN *Aglaia foveolata*. **Ref:** 1521, 3031.

**7933 Fragransol C**

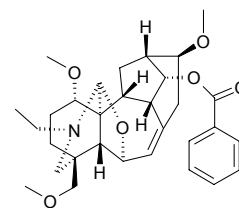
[114926-96-4] C₂₁H₂₄O₅ (356.42). **Source:** ROU DOU KOU *Myristica fragrans*. **Ref:** 909, 1521.

**7934 Frameroside**

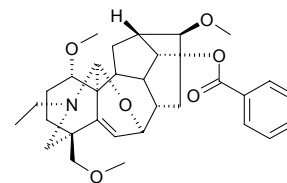
C₂₇H₃₈O₁₅ (602.59). Colorless amorphous powder, [α]_D²⁷ = -134° (c = 1.09, MeOH). **Source:** MEI GUO BAI CEN *Fraxinus americana* (leaf). **Ref:** 5091.

**7935 Franchetine**

C₃₁H₄₁NO₆ (523.68). **Source:** ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0028%dw). **Ref:** 4678.

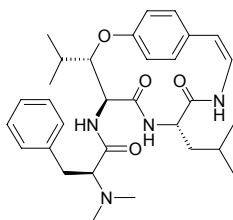
**7936 Franchitine**

[88661-42-1] C₃₁H₄₁NO₆ (523.68). White amorphous powder. **Source:** GONG BU WU TOU *Aconitum kongboense*. **Ref:** 2211, 1521.

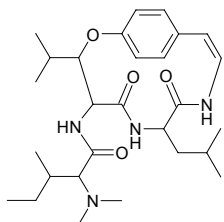


7937 Frangufoline

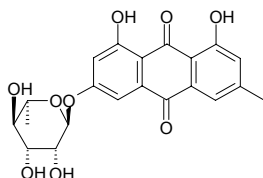
Sanjoinine A [19526-09-1] C₃₁H₄₂N₄O₄ (534.70). mp 244°C. Source: MIAN ZAO *Ziziphus mauritiana*. Ref: 6.

**7938 Frangulanine**

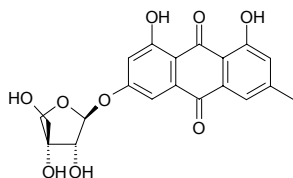
[25350-22-5] C₂₈H₄₄N₄O₄ (500.69). mp 275~277°C. Pharm: Laxative. Source: OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], ZHI JU GEN *Hovenia dulcis*. Ref: 6, 658, 660.

**7939 Frangulin A**

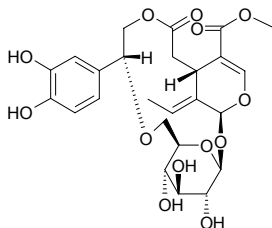
[521-62-0] C₂₁H₂₀O₉ (416.39). Pharm: Laxative. Source: YAO SHU LI *Rhamnus cathartica*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*]. Ref: 658.

**7940 Frangulin B**

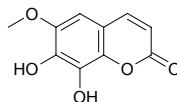
[14101-04-3] C₂₀H₁₈O₉ (402.36). Pharm: Laxative. Source: YAO SHU LI *Rhamnus cathartica*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*]. Ref: 658.

**7941 Fraxamoside**

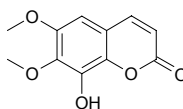
C₂₅H₃₀O₁₃ (538.51). Colorless amorphous powder, $[\alpha]_D^{22} = -137^\circ$ ($c = 0.12$, MeOH). Source: MEI GUO BAI CEN *Fraxinus americana* (leaf). Ref: 5091.

**7942 Fraxetin**

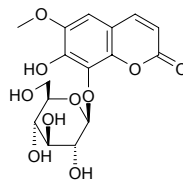
[574-84-5] C₁₀H₈O₅ (208.17). mp 228°C. Pharm: Antibacterial (*Bacillus dysenteriae*, used in treatment of infant bacillary dysentery). Source: MAO GUO QI *Acer nikoense* (stem cortex), XIAO YE CEN *Fraxinus bungeana*, HUA BAI LA SHU *Fraxinus ornus*, XI MA BAI LA SHU *Fraxinus floribunda*, RI BEN QI YE SHU *Aesculus turbinata*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, BAI LA SHU *Fraxinus chinensis*. Ref: 2, 658, 660, 4304.

**7943 Fraxidin**

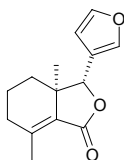
C₁₁H₁₀O₅ (222.20). Source: *Eurycoma* sp. Ref: 4556.

**7944 Fraxin**

Fraxoside; Paviin; Fraxetin-8-glucoside [524-30-1] C₁₆H₁₈O₁₀ (370.32). mp 205°C, easily soluble in hot water, hot EtOH, slightly soluble in cold water, cold ether, insoluble in ether^[5507]. Pharm: Antibacterial; antitussive (dispels phlegm); diuretic; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(-7.7 \pm 4.4)\%$)^[4304]. Source: HUA BAI LA SHU *Fraxinus ornus*, JIAN YE CEN *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], LIU YE CEN *Fraxinus stylosa*, MAO GUO QI *Acer nikoense* (stem cortex), OU ZHOU BAI LA SHU *Fraxinus excelsior*^[5507], OU ZHOU QI YE SHU *Aesculus hippocastanum*, QIN LING BAI LA SHU *Fraxinus paxiana*^[5507], TU ER QI SI TAN BAI LA SHU *Fraxinus potamophila*, XIAO YE CEN *Fraxinus bungeana*, *Symphoricarpos* sp., *Campanula* sp. Ref: 2, 658, 660, 4304, 5507.

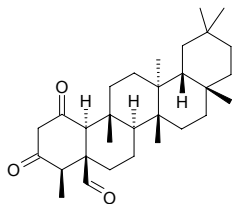
**7945 Fraxinellone**

[28808-62-0] C₁₄H₁₆O₃ (232.28). mp 108~110°C; 120°C. Pharm: Anti-fertility agent (rat, orl, 75mg/(kg·d), pregnant rate = 6/10); platelet aggregation inhibitor; antihypertensive (relaxes aortal contraction induced by K⁺ and Ca²⁺, ID₅₀ \approx 25 μ mol/L); coronary vasodilator (calcium selective antagonist). Source: BAI XIAN PI *Dictamnus dasycarpus*, KU LIAN PI *Melia azedarach*. Ref: 6, 1644, 1645, 1646.

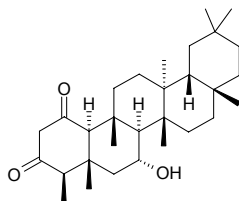


7946 Friedelan-1,3-dion-24-al

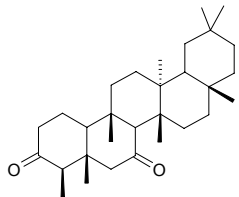
$C_{30}H_{46}O_3$ (454.70). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*]. Ref: 6.

**7947 Friedelan-1,3-dion-7 α -ol**

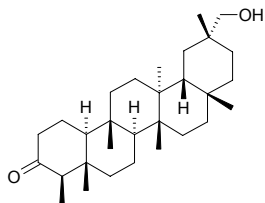
$C_{30}H_{48}O_3$ (456.72). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*]. Ref: 6.

**7948 Friedelane-3,7-dione**

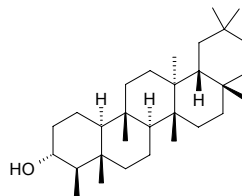
$C_{30}H_{48}O_2$ (440.72). White powder, mp 286°C. Source: *Drypetes molunduana* (stem). Ref: 3989.

**7949 Friedelane-3-one-29-ol**

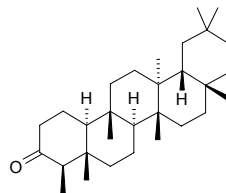
$C_{30}H_{50}O_2$ (442.73). Pharm: DPPH scavenger inactive (for 40 μ mol/L DPPH radical, $SC_{50} > 40 \mu$ mol/L)^[4378]. Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**7950 Friedelan-3 α -ol**

[5085-72-3] $C_{30}H_{52}O$ (428.75). mp 302~304°C. Pharm: Antifungal; anti-inflammatory. Source: TIAO JING CAO *Euonymus japonicus*, DONG FENG CAI *Doellingeria scaber* [Syn. *Aster scaber*], HE AN ZE LAN *Eupatorium riparium*, HUO YANG LE *Euphorbia antiquorum*, LIANG YE RONG *Ficus nitida*, MEI LI YIN BEI TENG *Argyrea speciosa*, QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*], TIAN LAN ZE LAN *Eupatorium azureum*, XUE TONG *Macaranga tanarius*, YANG YE YIN BEI TENG *Argyrea populifolia*. Ref: 6, 658.

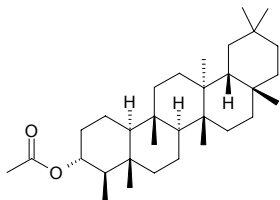
**7951 Friedelan-3-one**

Friedelin [559-74-0] $C_{30}H_{50}O$ (426.73). Colorless thin acicular crystals, mp 257~264°C, $[\alpha]_D^{28} = -14.1^\circ$ ($c = 0.07$, $CHCl_3$). Pharm: Anti-inflammatory; NFAT transcription factor inhibitor inactive ($IC_{50} > 50 \mu$ mol/L, positive control Cyclosporin A, $IC_{50} = (0.31 \pm 0.01) \mu$ mol/L)^[4511]; cytotoxic (P_{388} , $ED_{50} = 14.61 \mu$ g/mL, control Mithramycin, $ED_{50} = 0.58 \mu$ g/mL; A549, $ED_{50} = 30.72 \mu$ g/mL, Mithramycin, $ED_{50} = 0.073 \mu$ g/mL; HT29, $ED_{50} = 17.30 \mu$ g/mL, Mithramycin, $ED_{50} = 0.076 \mu$ g/mL)^[5421]. Source: BIAN TAO *Mangifera persiciformis*, CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf), CHUAN DANG SHEN *Codonopsis tangshen*, CHUAN LI GUO *Pyrus pashia*, DA FEI YANG CAO *Euphorbia hirta*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0095%^[5508]), HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut), HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf)^[4735], HUANG HUA HAO *Artemisia annua*, HUI BAO HAO *Artemisia roxburgiana*, HUO XIANG *Agastache rugosus*, KUAI JING MA LI JIN *Asclepias tuberosa*, KUO JIA HE HUAN *Albizia lebeck*, LONG XU CAO *Poa sphondylodes*, LU BIAN QING *Clerodendron cyrtophyllum*, MANG GUO *Mangifera indica*, MAO LIAN HAO *Artemisia vestita*, MENG GU LI *Quercus mongolica*, MO ZHI JIAO GU CUI *Casearia membranacea* (stem), NAN ZHU ZI *Vaccinium bracteatum*, QIU HUA DANG SHEN *Codonopsis subglobosa*, QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*], QUN DAI CAI *Undaria pinnatifida*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SHI LIU PI *Punica granatum*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: mean content = 0.0162%^[5508]), TAI BAI HUA *Cladonia stellaris* [Syn. *Cladonia alpestris*], TUN XING GUO *Pygeum topengii*, XIAO SHE ZI WAN *Aster albescens*, YA ZHI CAO *Commelina communis*, ZI WAN *Aster tataricus*, occurs in many plants. Ref: 2, 447, 474, 503, 505, 515, 550, 572, 600, 611, 658, 660, 3866, 4502, 4511, 4735, 5421, 5501, 5508.

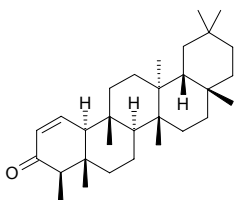


7952 Friedelan-3 α -yl acetate

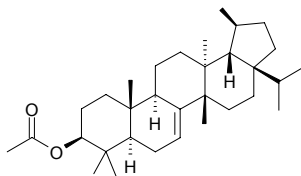
$C_{32}H_{54}O_2$ (470.79). mp 317~319°C. Source: QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*]. Ref: 6.

**7953 1-Friedelen-3-one**

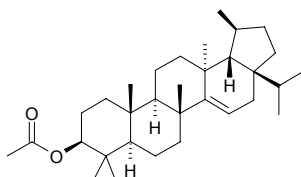
$C_{30}H_{48}O$ (424.72). mp 262~263°C. Source: SUO LAMU *Salacia prinoides* [Syn. *Salacia chinensis*]. Ref: 6.

**7954 D:C-Friedomadeir-7-en-3 β -yl acetate**

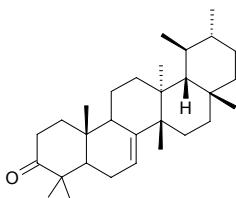
$C_{32}H_{52}O_2$ (468.77). White granular crystals, mp 213~214°C, $[\alpha]_D = -61.5^\circ$ ($c = 0.75$, $CHCl_3$). Source: YOU AN DI JIN *Euphorbia stygiana*. Ref: 3383.

**7955 D-Friedomadeir-14-en-3 β -yl acetate**

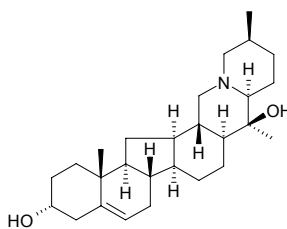
$C_{32}H_{52}O_2$ (468.77). White powder, mp 220~221°C, $[\alpha]_D = +23.4^\circ$ ($c = 0.6$, $CHCl_3$). Source: YOU AN DI JIN *Euphorbia stygiana*. Ref: 3383.

**7956 D:C-Friedo-urs-7-en-3-one**

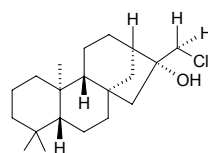
$C_{30}H_{48}O$ (424.72). Colorless needles, mp 212~214°C, $[\alpha]_D^{25} = -4.1^\circ$ ($c = 0.4$, $CHCl_3$). Pharm: Antimutagenic (*E. coli* PQ37, antigenotoxicity test, for mutagen MNNG shows 20% reduction of induction factor, for mutagen NQO, shows 25% reduction of induction factor)^[4459]. Source: ZAO JIA CI *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (thorn). Ref: 4459.

**7957 Fritillarizine**

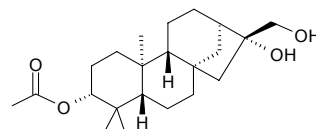
[76733-86-3] $C_{27}H_{43}NO_2$ (413.65). mp 141.5~143.0°C, $[\alpha]_D = -18.6^\circ$ ($c = 1.0$, $CHCl_3$). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2201.

**7958 Fritillaziebinol**

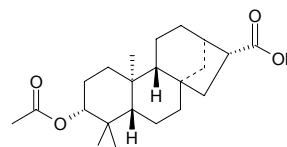
ent-Kauran-16 β -hydroxy-17-chloride $C_{20}H_{23}ClO$ (324.94). Colorless square crystals, mp 153~154°C. Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 833.

**7959 Fritillebeinol**

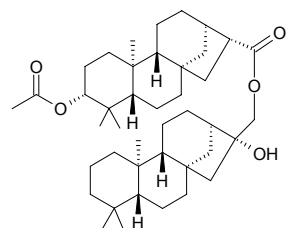
ent-3 β -Acetoxy-kauran-16 β ,17-diol $C_{22}H_{36}O_4$ (364.53). Colorless acicular crystals, mp 163~164°C. Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 827.

**7960 Fritillebic acid**

$C_{22}H_{34}O_4$ (362.50). mp 235~237°C, $[\alpha]_D^{28} = -60.6^\circ$ ($c = 1.0$, $CHCl_3$). Source: HU BEI BEI MU *Fritillaria hupehensis*. Ref: 2182.

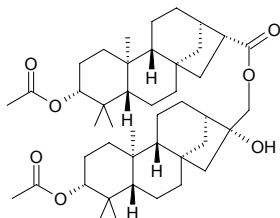
**7961 Fritillebin A**

$C_{42}H_{66}O_5$ (650.99). mp 237~239°C, $[\alpha]_D^{28} = -61.7^\circ$ ($c = 1.3$, $CHCl_3$). Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 578, 2182.

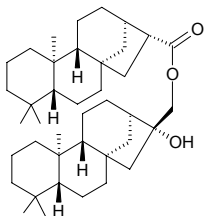


7962 Fritillebin B

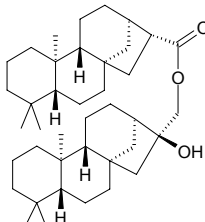
$C_{44}H_{68}O_7$ (709.03). mp 243~245°C, $[\alpha]_D^{28} = -61.7^\circ$ ($c = 0.4$, $CHCl_3$). Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 578, 2182.

**7963 Fritillebin C**

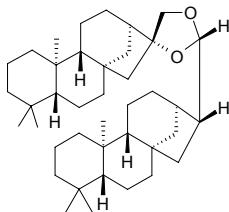
$C_{40}H_{64}O_3$ (592.95). mp 210~212°C, $[\alpha]_D^{25} = -95.1^\circ$ ($c = 0.25$, $CHCl_3$). Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 584, 2182.

**7964 Fritillebin D**

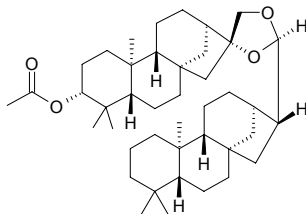
$C_{40}H_{64}O_3$ (592.95). mp 231~233°C, $[\alpha]_D^{25} = -86.4^\circ$ ($c = 0.16$, $CHCl_3$). Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 584, 2182.

**7965 Fritillebinide A**

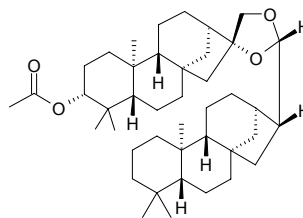
ent-Kauran-16 β ,17-acetal *ent*-16 β -kauran-17(*S*)-aldehyde $C_{40}H_{64}O_2$ (576.95). Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 682, 906.

**7966 Fritillebinide B**

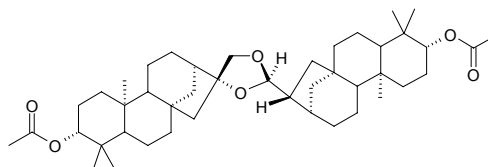
$C_{42}H_{66}O_4$ (634.99). Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 906.

**7967 Fritillebinide C**

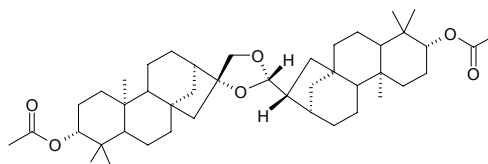
$C_{42}H_{66}O_4$ (634.99). Source: E BEI BEI MU *Fritillaria ebeiensis*. Ref: 906.

**7968 Fritillebinide D**

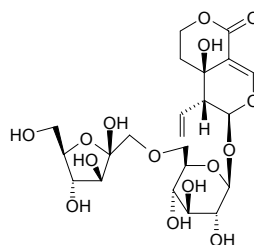
$C_{44}H_{68}O_6$ (693.03). Colorless needles (EtOAc), mp 247~249°C. Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 4806.

**7969 Fritillebinide E**

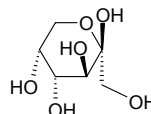
$C_{44}H_{68}O_6$ (693.03). Colorless needles (EtOAc), mp 247~248°C. Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 4806.

**7970 6'-O- β -D-Fructofuranosylswertiamarin**

$C_{22}H_{32}O_{15}$ (536.49). Amorphous powder, $[\alpha]_D^{25} = -80.2^\circ$ ($c = 0.08$, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

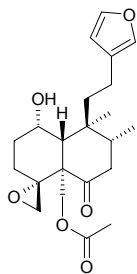
**7971 Fructose**

$C_6H_{12}O_6$ (180.16). mp *L* (+) 101~103°C, *D*(-) 102~104°C (dec). Pharm: Provides energy and restores body fluid (for patients with diabetes and hepatitis). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], DANG SHEN *Codonopsis pilosula*, YAO YONG PU GONG YING *Taraxacum officinale*, XI SHU *Camptotheca acuminata*. Ref: 2, 660, 4097.

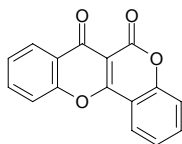


7972 Fruticolone

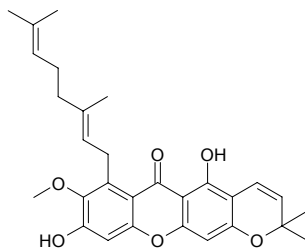
$C_{22}H_{30}O_6$ (390.48). **Pharm:** Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu\text{g}/\text{cm}^2$, $\text{FR}_{50} = 0.69 \pm 0.11$). **Source:** GUAN CONG XIANG KE KE *Teucrium fruticans*. **Ref:** 3761.

**7973 Frutinone A**

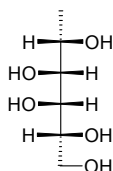
[38210-27-4] $C_{16}H_8O_4$ (264.24). **Pharm:** Antifungal (*Cladosporium cucumerinum*). **Source:** GUAN MU YUAN ZHI *Polygala fruticosa*. **Ref:** 658.

**7974 Fucaxanthone A**

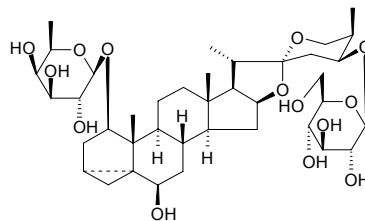
$C_{29}H_{32}O_6$ (476.57). **Pharm:** Antioxidant (DPPH scavenger, $\text{IC}_{50} > 200\mu\text{mol}/\text{L}$, control BHT, $\text{IC}_{50} = 5.10\mu\text{g}/\text{mL}$; crude latex of *Garcinia cowa*, $\text{IC}_{50} = 13.20\mu\text{g}/\text{mL}$). **Source:** YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 5281.

**7975 L-Fucitol**

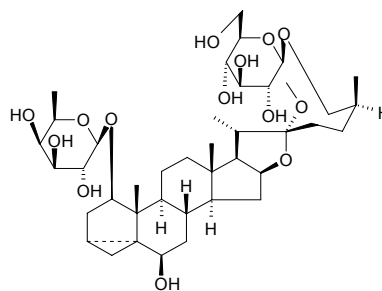
$C_6H_{14}O_5$ (166.18). Amorphous powder, $[\alpha]_D^{21} = -5^\circ$ ($c = 0.1$, H_2O). **Source:** GE LU ZI *Carum carvi*. **Ref:** 1926.

**7976 (24S,25R)-1β-[(β-D-Fucopyranosyl)oxy]-6β-hydroxy-3α,5α-cyclospirostan-24-yl β-D-glucopyranoside**

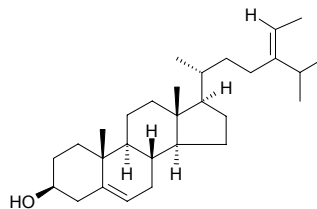
$C_{39}H_{62}O_{14}$ (754.92). Amorphous solid, $[\alpha]_D^{26} = -90.0^\circ$ ($c = 0.10$, MeOH). **Source:** DUO ZHI LONG XUE SHU *Dracaena surculosa* (whole herb). **Ref:** 4216.

**7977 (25S)-1β-[(β-D-Fucopyranosyl)oxy]-6β-hydroxy-22a-methoxy-3α,5α-cyclofurostan-26-yl β-D-glucopyranoside**

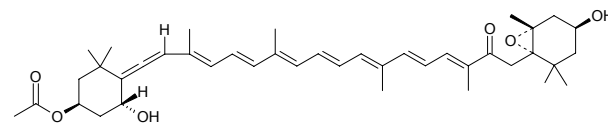
$C_{40}H_{66}O_{14}$ (770.96). Amorphous solid, $[\alpha]_D^{26} = -56.0^\circ$ ($c = 0.10$, MeOH). **Source:** DUO ZHI LONG XUE SHU *Dracaena surculosa* (whole herb). **Ref:** 4216.

**7978 Fucosterol**

Stigmasta-5,24(28)*E*-dien-3-ol [17605-67-3] $C_{29}H_{48}O$ (412.71). mp 124°C . **Pharm:** Antihypercholesterolemic (reduces the level of cholesterol in serum); antithrombotic; ACE inhibitor (endothelial cells, inhibits synthesis of glucocorticoid receptor). **Source:** QUN DAI CAI *Undaria pinnatifida*, SHUI LONG GU *Polypodium niponicum*, YE ZI YOU *Cocos nucifera*. **Ref:** 6, 660, 1601, 1602, 1603.

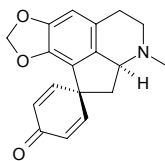
**7979 Fucoxanthin**

[3351-86-8] $C_{41}H_{56}O_6$ (644.90). **Pharm:** Antineoplastic (mus, inhibits occurrence of cutaneous carcinoma and duodenum carcinoma). **Source:** FAN QIE *Lycopersicon esculentum*. **Ref:** 1521, 1582.

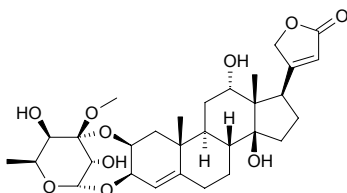


7980 Fugapavine

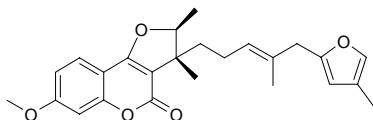
Mecambrine [1093-07-8] C₁₈H₁₇NO₃ (295.34). **Pharm:** Eclamptogenic (high dose); increases blood pressure (animal model); slows heart rate (animal model); respiratory stimulant (animal model); LD₅₀ (mus) = 4.1 mg/kg. **Source:** CHANG GUO YING SU *Papaver dubium*, WEI ER SHI LV RONG HAO *Meconopsis cambrica*, YI XIAN YING SU *Papaver fugax*. **Ref:** 658.

**7981 Fugaxin**

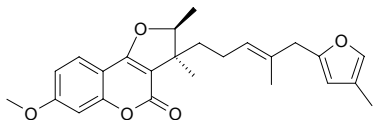
12 α ,14 β -Dihydroxy-2 α ,3 β -(tetrahydro-3',5'-dihydroxy-4'-methoxy-6'-methyl-2H-pyran-2',4'-diylbisoxo)-card-4,20-dienolide C₃₀H₄₂O₁₀ (562.66). Whitish amorphous. **Source:** YI XIAN HAI CONG *Urginea fugax* (bulb). **Ref:** 3871.

**7982 Fukanefuromarin E**

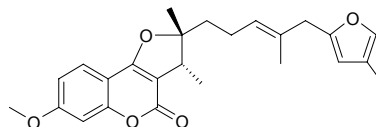
2,3-Dihydro-7-methoxy-2S*,3R*-dimethyl-3-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin C₂₅H₂₈O₅ (408.50). Colorless oil, [α]_D²³ = -2.0° (c = 0.36, MeOH). **Pharm:** NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN- γ , IC₅₀ = (29.0 \pm 1.0) μ mol/L); inhibits the inducible nitric oxide synthase (iNOS) gene expression (LPS/IFN- γ treatment increased the level of iNOS mRNA expression, and the compound inhibits this increase, dose-dependent manner); cytotoxic inactive (MTT assay, 3~100 μ mol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN- γ treatment for 24h.). **Source:** FU KANG A WEI GEN *Ferula fukanensis*. **Ref:** 2574.

**7983 Fukanefuromarin F**

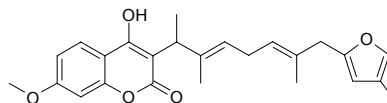
2,3-Dihydro-7-methoxy-2R*,3R*-dimethyl-3-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin C₂₅H₂₈O₅ (408.50). Colorless oil, [α]_D²³ = +41.7° (c = 0.14, MeOH). **Pharm:** NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN- γ , IC₅₀ = (30.7 \pm 0.9) μ mol/L); cytotoxic inactive (MTT assay, 3~100 μ mol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN- γ treatment for 24h.). **Source:** FU KANG A WEI GEN *Ferula fukanensis*. **Ref:** 2574.

**7984 Fukanefuromarin G**

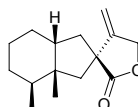
2,3-Dihydro-7-methoxy-2R*,3R*-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin C₂₅H₂₈O₅ (408.50). Colorless oil, [α]_D²³ = -8.9° (c = 0.18, MeOH). **Pharm:** NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN- γ , IC₅₀ = (27.3 \pm 2.3) μ mol/L); cytotoxic inactive (MTT assay, 3~100 μ mol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN- γ treatment for 24h.). **Source:** FU KANG A WEI GEN *Ferula fukanensis*. **Ref:** 2574.

**7985 Fukanemarin B**

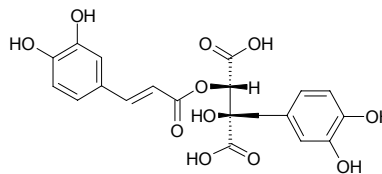
4-Hydroxy-7-methoxy-3-[1,2,6-trimethyl-7-(4-methyl-2-furyl)-hepta-2(E),5(E)-dienyl]-coumarin C₂₅H₂₈O₅ (408.50). Yellow oil, [α]_D²³ = \pm 0° (c = 0.23, MeOH). **Pharm:** NO production inhibitor (macrophage-like cell line RAW264.7 activated by LPS/IFN- γ , IC₅₀ = (30.2 \pm 1.7) μ mol/L); inhibits the inducible nitric oxide synthase (iNOS) gene expression (LPS/IFN- γ treatment increased the level of iNOS mRNA expression, and the compound inhibits this increase, dose-dependent manner); cytotoxic inactive (MTT assay, 3~100 μ mol/L, did not demonstrate any significant cytotoxicity upon LPS/IFN- γ treatment for 24h.). **Source:** FU KANG A WEI GEN *Ferula fukanensis*. **Ref:** 2574.

**7986 Fukinanolide**

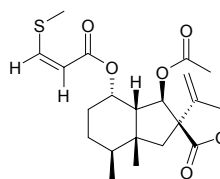
[19906-72-0] C₁₅H₂₂O₂ (234.34). mp 80.5~80.6°C. **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**7987 Fukinolic acid**

[50982-40-6] C₂₀H₁₈O₁₁ (434.36). **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

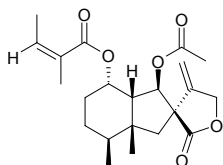
**7988 S-Fukinolide**

[18456-03-6] C₂₁H₂₈O₆S (408.52). mp 207°C. **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

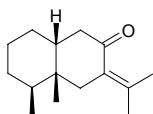


7989 Fukinolide

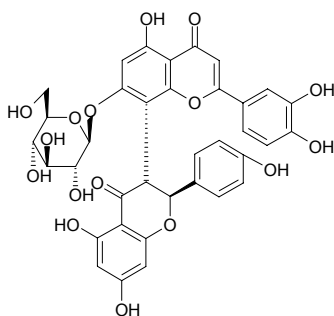
[18455-98-6] C₂₂H₃₀O₆ (390.48). mp 101~102°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**7990 Fukinone**

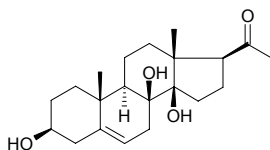
[19593-06-7] C₁₅H₂₄O (220.36). bp 97°C/0.8mmHg. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**7991 Fukugiside**

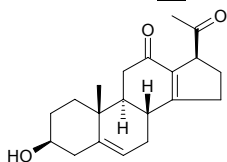
[29082-55-1] C₃₆H₃₀O₁₆ (718.63). mp 242~243°C (dec). Pharm: Antioxidant (DPPH radical scavenger, 10μmol/L, ScRt = 56%, IC₅₀ = 11.40μmol/L; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L)^[4422]. Source: SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 6, 4422.

**7992 Fukujusone**

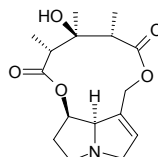
3β,8β,14β-Trihydroxypregn-5-en-20-one [25276-16-8] C₂₁H₃₂O₄ (348.49). mp 224~227°C. Source: FU SHOU CAO *Adonis amurensis*. Ref: 6.

**7993 Fukujusonone**

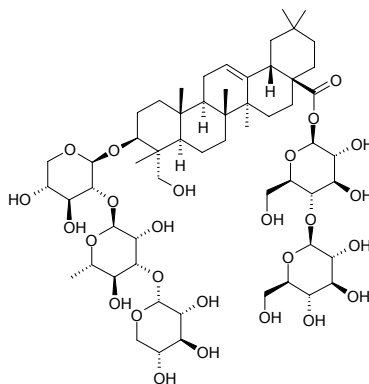
[26708-71-4] C₂₀H₂₆O₃ (314.43). mp 88~90°C. Source: FU SHOU CAO *Adonis amurensis*. Ref: 6.

**7994 Fulvine**

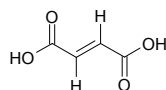
[6029-87-4] C₁₆H₂₃NO₅ (309.37). Prismatic crystals (acetone), mp 212~213°C, [α]_D²⁰ = -50.8° (c = 1, chloroform); hydrochloride: colorless prismatic crystals, mp 285°C (dec); bitter acid salt: yellow acicular crystals, mp 185°C (dec). Pharm: Antineoplastic (rat, Walker carcinoma); toxic (hepatic and pulmonary toxicity); mutagen (*drosophila*); similar action with narceine (rat and gpg, ileum). Source: AN HUANG ZHU SHI DOU *Crotalaria fulva*, MA DU LA ZHU SHI DOU *Crotalaria madurensis*, YUAN ZHUI ZHU SHI DOU *Crotalaria paniculata*, ZOU BO ZHUANG ZHU SHI DOU *Crotalaria crispata*. Ref: 658.

**7995 Fulvotomentoside A**

C₅₈H₉₄O₂₆ (1207.38). White thin acicular crystals, mp 215~217°C, [α]_D^{27.5} = -14.9° (c = 0.98, MeOH). Source: HUANG HE MAO REN DONG *Lonicera fulvotomentosa*. Ref: 126.

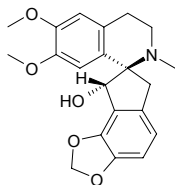
**7996 Fumaric acid**

(E)-2-Butenedioic acid [110-17-8] C₄H₄O₄ (116.07). mp 250~260°C. Pharm: Analgesic; antibacterial; antineoplastic; anti-electroshock; antitussive. Source: DA CHE QIAN *Plantago major*, GAN ZHE *Saccharum sinensis*, HUANG HAI YING SU *Glaucium flavum*, HUO YANG LE *Euphorbia antiquorum*, JI CAI *Capsella bursa-pastoris*, JIN SHUA BA *Cladonia fallax*, JIU JIE CHA *Sarcandra glabra* [Syn. *Chloranthus glaber*] (dried whole herb: content scope of 6 origins = 0.052%~0.183%, mean content = 0.122%^[5508]), LU SHAN SHI WEI *Pyrrosia sheareri*, MAI JIA GONG *Lithospermum arvense*, NIU ER FENG ZI *Daphniphyllum calycinum*, PING GUO HAI TANG *Malus domestica*, SHI RUI *Cladonia rangiferina*, WAN DOU *Pisum sativum*, WU HUA GUO *Ficus carica*, XIANG RI KUI ZI *Helianthus annuus*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], YAO YONG QIU GUO ZI JIN *Fumaria officinalis*, YI ZHU QIAN MA *Urtica dioica*, YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig), ZI ZHI *Ganoderma japonicum* [Syn. *Ganoderma sinense*], occurs in many plants. Ref: 6, 658, 660, 4707, 5501, 5508.

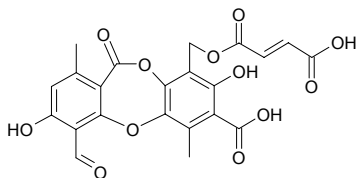


7997 Fumaricine

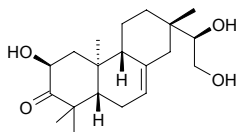
[24181-77-9] $C_{21}H_{23}NO_5$ (369.42). **Pharm:** Used in treatment of skin disease, hepatitis, and inflammation (using the source plant YAO YONG QIU GUO ZI JIN *Fumaria officinalis*). **Source:** YAO YONG QIU GUO ZI JIN *Fumaria officinalis*. **Ref:** 658.

**7998 Fumarprotocetraric acid**

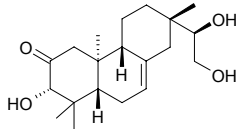
[489-50-9] $C_{22}H_{16}O_{12}$ (472.37). mp 250–260°C. **Pharm:** Cytotoxic (L1210, IC_{50} = $(82.3 \pm 12.3) \mu\text{g/mL}$, control Etoposide, IC_{50} = $(0.3 \pm 0.15) \mu\text{g/mL}$; 3LL, IC_{50} = $(75.9 \pm 9.7) \mu\text{g/mL}$, Etoposide, IC_{50} = $(2.6 \pm 0.8) \mu\text{g/mL}$; DU145, IC_{50} > 100 $\mu\text{g/mL}$, Etoposide, IC_{50} = $(0.9 \pm 0.2) \mu\text{g/mL}$; MCF7, IC_{50} > 100 $\mu\text{g/mL}$, Etoposide, IC_{50} = $(12.2 \pm 0.5) \mu\text{g/mL}$; K562, IC_{50} > 100 $\mu\text{g/mL}$, Etoposide, IC_{50} = $(2.1 \pm 1.3) \mu\text{g/mL}$; U251, IC_{50} > 100 $\mu\text{g/mL}$, Etoposide, IC_{50} = $(0.28 \pm 0.06) \mu\text{g/mL}$)^[5027]. **Source:** JIN SHUA BA *Cladonia fallax*, SHI RUI *Cladonia rangiferina*, ZONG JUAN SHI RUI *Cladonia convoluta*. **Ref:** 6, 5027.

**7999 Fumotoshidin A**

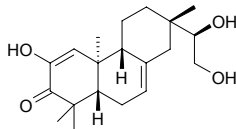
[89354-44-9] $C_{20}H_{32}O_4$ (336.48). **Source:** BIAN YUAN LIN GAI JUE *Microlepis marginata*. **Ref:** 1538.

**8000 Fumotoshidin B**

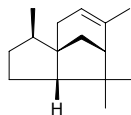
[89354-43-8] $C_{20}H_{32}O_4$ (336.48). **Source:** BIAN YUAN LIN GAI JUE *Microlepis marginata*. **Ref:** 1538.

**8001 Fumotoshidin C**

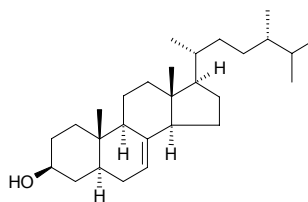
[89354-42-7] $C_{20}H_{30}O_4$ (334.46). **Source:** BIAN YUAN LIN GAI JUE *Microlepis marginata*. **Ref:** 1538.

**8002 α -Funebrene**

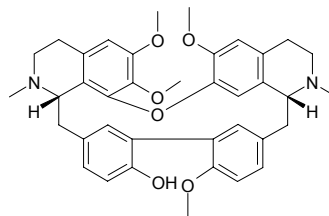
[50894-66-1] $C_{15}H_{24}$ (204.36). **Source:** BAI SHU YE *Cupressus funebris*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.

**8003 Fungisterol**

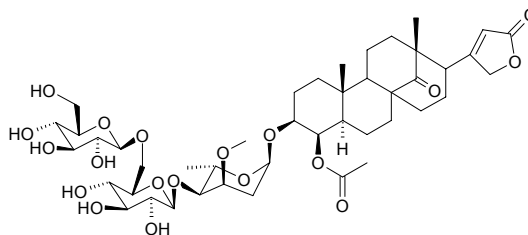
Ergost-7-en-3-ol [53260-54-1] $C_{28}H_{48}O$ (400.69). mp 152°C. **Source:** XIANG XUN *Lentinus edodes*. **Ref:** 6.

**8004 Funiferine**

$C_{38}H_{42}N_2O_6$ (622.77). **Pharm:** Antitrypanosomal (inhibits trypanosome form of *Trypanosoma cruzi*, strain Y, IC_{50} = 29.7 $\mu\text{g/mL}$, IC_{90} = 88.2 $\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum* D6, LC_{50} = 114.0 ng/mL , SI = 92; *Plasmodium falciparum* W2, LC_{50} = 183.3 ng/mL , SI = 57); cytotoxic (KB, LC_{50} = 10500 ng/mL). **Source:** *Guatteria boliviana* (stem cortex). **Ref:** 3976.

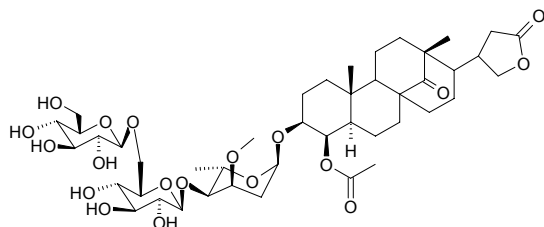
**8005 Funingenoside A**

(8*R*)-3 β ,4 β -Dihydroxy-yl-14-oxo-5 α -15(14 \rightarrow 8)-abeo-card-20(22)-enolide $C_{44}H_{66}O_{19}$ (899.01). Colorless needles (MeOH), mp 261–265°C, $[\alpha]_D^{26}$ –53.7° (c = 0.87, MeOH). **Source:** FU NING TENG *Parepignym funingense* (root: yield = 0.0026% dw). **Ref:** 4701.

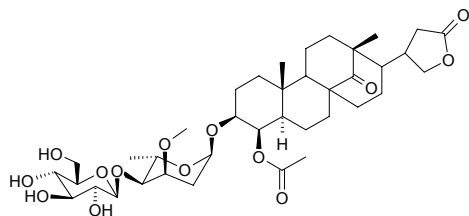


8006 Funingenoside B

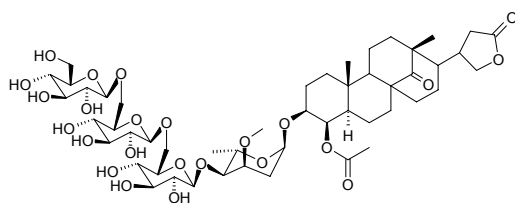
(8*R*)-4β-Acetoxy-3β-[(*O*-β-*D*-glucopyranosyl-(1→6)-*O*-β-*D*-glucopyranosyl-(1→4)-α-*L*-cymaropyranosyl)-oxy]-14-oxo-5α-15-(14→8)-abeo-card-20(22)-dihydroenolide C₄₄H₆₈O₁₉ (901.02). White powder, mp 271~275°C, $[\alpha]_D^{26} = -73.9^\circ$ ($c = 0.43$, MeOH). Source: FU NING TENG *Parepigynum funingense* (root: yield = 0.0073%dw). Ref: 4701.

**8007 Funingenoside C**

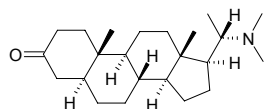
(8*R*)-4β-Acetoxy-3β-[(*O*-β-*D*-glucopyranosyl-(1→4)-α-*L*-cymaropyranosyl)oxy]-14-oxo-5α-15-(14→8)-abeo-card-20(22)-dihydroenolide C₃₈H₅₈O₁₄ (738.88). White powder, mp 256~259°C, $[\alpha]_D^{13} = -75.9^\circ$ ($c = 0.22$, MeOH). Source: FU NING TENG *Parepigynum funingense* (root: yield = 0.0014%dw). Ref: 4701.

**8008 Funingenoside D**

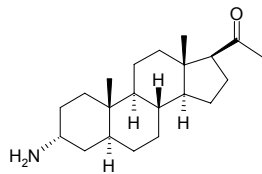
(8*R*)-4β-Acetoxy-3β-[(*O*-β-*D*-glucopyranosyl-(1→6)-*O*-β-*D*-glucopyranosyl-(1→6)-*O*-β-*D*-glucopyranosyl-(1→4)-α-*L*-cymaopyranosyl)oxy]-14-oxo-5α-15-(14→8)-abeo-card-20(22)-dihydroenolide C₅₀H₇₈O₂₄ (1063.16). White powder, mp 248~253°C, $[\alpha]_D^{13} = -66.0^\circ$ ($c = 0.67$, MeOH). Source: FU NING TENG *Parepigynum funingense* (root: yield = 0.00035%dw). Ref: 4701.

**8009 Funtumafrine C**

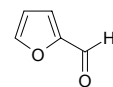
(2*S*)-20-(*N,N*-dimethylamino)-5α-pregna-3-one C₂₃H₃₉NO (345.57). White crystalline solid (CHCl₃), mp 169~170°C, $[\alpha]_D^{25} = +50^\circ$ ($c = 0.06$, CHCl₃). Pharm: BChE inhibitor (horse serum BChE, IC₅₀ = (6.56±0.12)μmol/L, control Eserine, IC₅₀ = (0.86±0.01)μmol/L); AChE inhibitor (electric eel AChE, IC₅₀ = (45.75±1.12)μmol/L, control Eserine, IC₅₀ = (0.041±0.001)μmol/L). Source: YUN NAN YE SHAN HUA *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (leaf). Ref: 4241.

**8010 Funtumine**

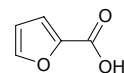
[474-45-3] C₂₁H₃₅NO (317.52). Prismatic crystals (ethyl acetate), mp 126°C, $[\alpha]_D = +95^\circ$ ($c = 1.7$, chloroform). Pharm: Antipyretic; local anesthetic; antihypertensive; promotes respiration; vasodilator. Source: GANG GUO HE ZHI XIE MU *Holarrhena congolensis*, SI JIAO SHU *Funtumia elastica*, TUI RE ZHI XIE MU *Holarrhena febrifuga*. Ref: 658.

**8011 2-Furaldehyde**

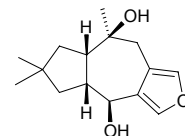
Furan-2-carboxaldehyde [98-01-1] C₅H₄O₂ (96.09). bp 162°C. Source: CANG ZHU *Atractylodes lancea*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], KONG SHI CHUN *Ulva pertusa*, LUO LE *Ocimum basilicum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SHUI SONG *Codium fragile*, YIN CHEN HAO *Artemisia capillaris*, ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], ZI CAI *Porphyra tenera*. Ref: 2, 6, 660.

**8012 2-Furancarboxylic acid**

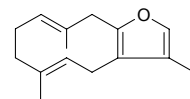
Pyromucic acid [88-14-2] C₅H₄O₃ (112.09). Leaflets (H₂O), mp 133~134°C, bp 230~232°C, bp 141~144°C/20mmHg. Source: BAI FAN DOU *Phaseolus vulgaris*, DANG SHEN *Codonopsis pilosula*, JIAN WEI YU *Alocasia cucullata* [Syn. *Arum cucullatum*], QIAN LI GUANG *Senecio scandens* [Syn. *Senecio chinensis*], SHI YE *Diospyros kaki*, fungus *Epicoccum* sp. Ref: 2, 660, 1521, 2721, 2980, 5445.

**8013 Furanliol**

C₁₅H₂₂O₃ (250.34). Source: MEI WEI HONG GU *Russula delicata* (sporocarp). Ref: 4374.

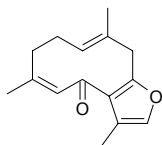
**8014 Furanodiene**

Isofuranodiene [19912-61-9] C₁₅H₂₀O (216.38). mp 44~45°C. Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (67.0±1.4)%), control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$)^[4150]. Source: JI JI *Chloranthus serratus*, JIN SU LAN *Chloranthus spicatus*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], YIN XIAN CAO *Chloranthus japonicus*. Ref: 6, 660, 4150.

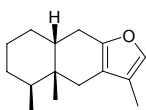


8015 Furanodienone

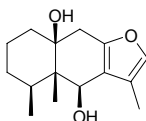
Isofuranodienone [24268-42-6] $C_{15}H_{18}O_2$ (230.31). mp 89.5–90.5°C; 70–71°C. **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (64.6 \pm 2.6)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 660, 4150.

**8016 Furanocremophilane**

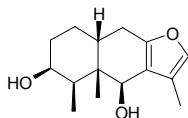
[6750-13-6] $C_{15}H_{22}O$ (218.34). bp 148°C/16mmHg. **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**8017 Furanocremophilane-6 β ,10 β -diol**

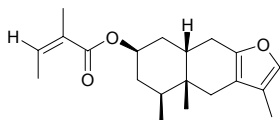
[35101-40-7] $C_{15}H_{22}O_3$ (250.34). mp 122°C. **Source:** LIAN PENG CAO *Farfugium japonicum*. **Ref:** 6.

**8018 Furanofukinol**

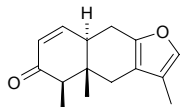
[In DNP] $C_{15}H_{22}O_3$ (250.34). mp 178–180°C (dec). **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**8019 Furanojaponin**

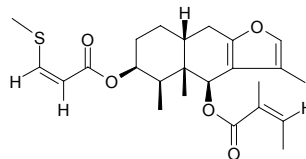
[34335-98-3] $C_{20}H_{28}O_3$ (316.44). bp 110–130°C/0.0005mmHg. **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**8020 10 α -H-Furanoligularenone**

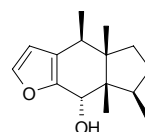
Furanoligularenone [16148-24-6] $C_{15}H_{18}O_2$ (230.31). mp 95°C. **Pharm:** Anti-inflammatory (NO production inhibitor)^[4415]; anti-inflammatory (RAW264.7 stimulated by LPS, inhibits PGE2 production, IC_{50} = 1.93 μ mol/L; inhibits expression of COX-2)^[4415]. **Source:** HU LU QI *Ligularia fischeri*, HU LU QI BIAN ZHONG *Ligularia fischeri* var. *spiciformis*. **Ref:** 6, 4415.

**8021 S-Furanopetasitin**

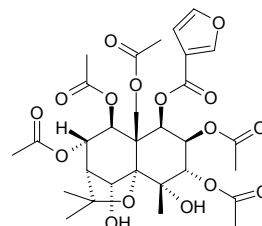
[34335-97-2] $C_{24}H_{32}O_5S$ (432.58). mp 107–108°C. **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**8022 Furanopinguisanol**

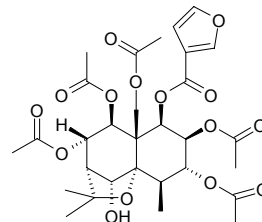
$C_{15}H_{22}O_2$ (234.34). **Source:** YE TAI *Trocholejeunea sandvicensis*. **Ref:** 3909.

**8023 1 β -Furanoyl-2 β ,3 α ,7 α ,8 β ,11-pentaacetoxy-4 α ,5 α -dihydroxy-dihydroagarofuran**

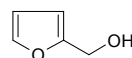
$C_{30}H_{38}O_{16}$ (654.63). Amorphous powder, $[\alpha]_D^{25} = -12.2^\circ$ ($c = 0.8$, MeOH). **Pharm:** Immunosuppressant (inhibits lymphocyte transformation, 80 μ g/mL, InRt = 17%, control Dexamethasone, 50 μ g/mL, InRt = 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.

**8024 1 β -Furanoyl-2 β ,3 α ,7 α ,8 β ,11-pentaacetoxy-5 α -hydroxy-dihydroagarofuran**

$C_{30}H_{38}O_{15}$ (638.63). Amorphous powder, $[\alpha]_D^{25} = -32.3^\circ$ ($c = 1.7$, MeOH). **Pharm:** Immunosuppressant (inhibits lymphocyte transformation, 80 μ g/mL, InRt = 44%, control Dexamethasone, 50 μ g/mL, InRt = 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.

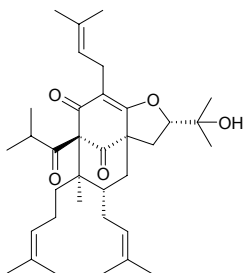
**8025 Furfuryl alcohol**

2-Hydroxymethylfuran [98-00-0] $C_5H_6O_2$ (98.10). bp 170–171°C. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], SHUI SONG *Codium fragile*. **Ref:** 6.

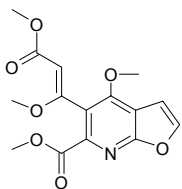


8026 Furohyperforin

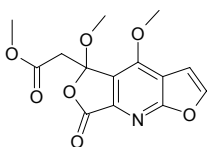
[219793-20-1] C₃₅H₅₂O₅ (552.80). Oil, [α]_D²⁰ = +62.4° (c = 0.9, CHCl₃).
Source: GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts: yield = 0.00016%dw). **Ref:** 1521, 3032.

**8027 Furomegistine I**

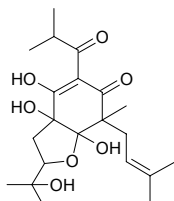
C₁₅H₁₅NO₇ (321.29). **Pharm:** Cytotoxic (A549, IC₅₀ = 90 μmol/L; HT29, IC₅₀ = 100 μmol/L). **Source:** *Sarcomelicope megistophylla* (bark). **Ref:** 5155.

**8028 Furomegistine II**

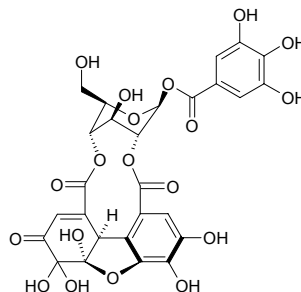
C₁₄H₁₃NO₇ (307.26). [α]_D = 0° (c = 0.1, CH₂Cl₂). **Pharm:** Cytotoxic (A549, IC₅₀ = 90 μmol/L; HT29, IC₅₀ = 100 μmol/L). **Source:** *Sarcomelicope megistophylla* (bark). **Ref:** 5155.

**8029 Furonewguinone B**

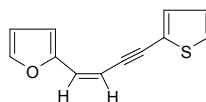
C₂₁H₃₂O₇ (396.48). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum pappunum* **Ref:** 5371.

**8030 Furosin**

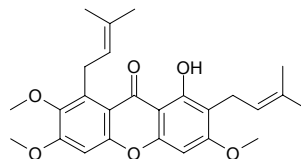
C₂₇H₂₂O₁₉ (650.46). **Source:** AN MO LE *Phyllanthus emblica* (branch and leaf). **Ref:** 3094.

**8031 cis-1-(2-Furyl)-4-(2-thienyl)-1-buten-3-yne**

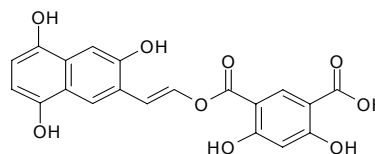
[20288-15-7] C₁₂H₈OS (200.26). bp 100~110°C/0.3mmHg. **Source:** YANG SHI CAO *Achillea millefolium*. **Ref:** 6.

**8032 Fuscaxanthone C**

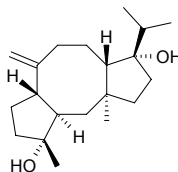
C₂₆H₃₀O₆ (438.53). **Pharm:** Cytotoxic inactive (hmn small cell lung cancer NCI-H187 cell line, control Ellipticine, IC₅₀ = (0.35±0.15) μg/mL). **Source:** QIAO MU ZHUANG HUANG NIU MU *Cratogeomys arborescens* (stem cortex). **Ref:** 5061.

**8033 Fuscoporine**

C₂₀H₁₄O₉ (398.33). Dull-brown powder, mp > 300°C. **Source:** HUA HE KONG JUN *Fuscoporia obliqua*. **Ref:** 792.

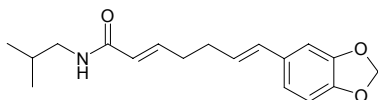
**8034 Fusicoserpenol A**

4 α ,12 α -Dihydroxy-8(17)-fusicoccene C₂₀H₃₄O₂ (306.49). Colorless crystals (hexane), mp 87~90°C, [α]_D = +19.4° (c = 0.5, CHCl₃). **Pharm:** Antifungal. **Source:** PU FU QIANG DAO YAO *Hypoestes serpens*. **Ref:** 2063.

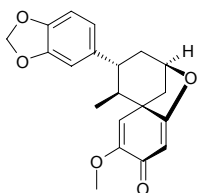


8035 Futoamide

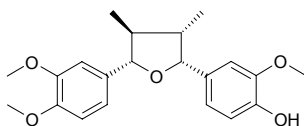
$C_{18}H_{23}NO_3$ (301.39). mp 128~130°C. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], SHAN JU *Piper hancei*. Ref: 6, 75.

**8036 Futoenone**

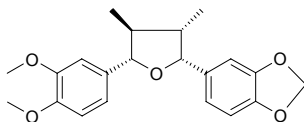
[19913-01-1] $C_{20}H_{20}O_5$ (340.38). mp 197°C. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 6.

**8037 Futokadsurin A**

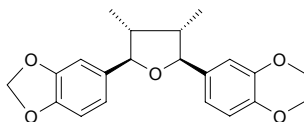
(7*S*,8*S*,7'*S*,8'*R*)-3,4,3'-Trimethoxy-4'-hydroxy-7,7'-epoxyylignan $C_{21}H_{26}O_5$ (358.44). Colorless oil, $[\alpha]_D^{25} = +12.3^\circ$ ($c = 1.09$, $CHCl_3$). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 47.2\mu mol/L$, control quercetin, $IC_{50} = 26.8\mu mol/L$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 2537.

**8038 Futokadsurin B**

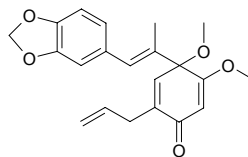
(7*R*,8*R*,7'*R*,8'*S*)-3,4-Dimethoxy-3',4'-methylenedioxy-7,7'-epoxyylignan $C_{21}H_{24}O_5$ (356.42). Colorless needles, mp 102°C, $[\alpha]_D^{23} = +33.7^\circ$ ($c = 1.18$, $CHCl_3$). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 55.0\mu mol/L$, control quercetin, $IC_{50} = 26.8\mu mol/L$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 2537.

**8039 Futokadsurin C**

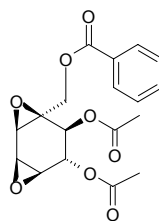
(7*R*,8*R*,7'*S*,8'*S*)-3,4-Methylenedioxy-3',4'-dimethoxy-7,7'-epoxyylignan $C_{21}H_{24}O_5$ (356.42). Colorless oil, $[\alpha]_D^{23} = -11.7^\circ$ ($c = 3.26$, $CHCl_3$). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 79.2\mu mol/L$, control quercetin, $IC_{50} = 26.8\mu mol/L$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 2537.

**8040 Futoquinol**

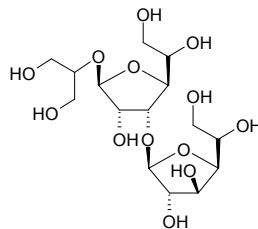
Hancinone D [28178-92-9] $C_{21}H_{22}O_5$ (354.41). White crystals (hexane), mp 96~97°C, mp 97~98°C, $[\alpha]_D^{14} = 0^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: PAF antagonist ($IC_{50} = 23\mu mol/L$). Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], SHAN JU *Piper hancei*, ZHANG YE HU JIAO *Piper polysyphorum*. Ref: 6, 130, 191, 1578.

**8041 Futoxide**

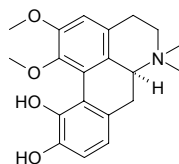
Crotopoxide [20421-13-0] $C_{18}H_{18}O_8$ (362.34). mp 150~151°C. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 6, 5501.

**8042 Fuzinoside**

Glycerol-2-*O*-β-*D*-galactofuranosyl (1→3)-galactofuranoside $C_{15}H_{28}O_{13}$ (416.38). Yellowish powder. Source: FU ZI *Aconitum carmichaeli*. Ref: 4588.

**8043 Fuzitine**

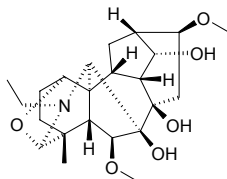
$C_{20}H_{25}NO_4$ (343.43). Brown solid, mp 210~212°C(dec.), $[\alpha]_D^{25} = +212^\circ$ ($c = 0.1$, MeOH). Source: XIAN MAO HEI ZHONG CAO *Nigella glandulifera* (seed). Ref: 4277.



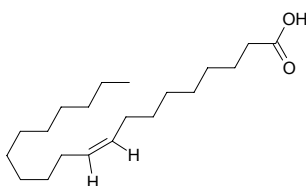
G

8044 Gadesine

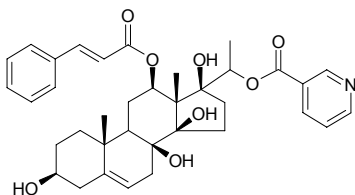
[70420-60-9] C₂₃H₃₅NO₆ (421.54). mp 174~177°C, [α]_D = +76° (*c* = 0.27, EtOH). Source: WU ZHU FEI YAN CAO *Delphinium pentagynum*. Ref: 1521.

**8045 Gadoleic acid**

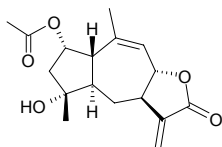
[29204-02-2] C₂₀H₃₈O₂ (310.52). mp (*cis*)23.0~23.5°C, bp 170°C/0.1mmHg. Source: LUO HUA SHENG YOU *Arachis hypogaea*. Ref: 6.

**8046 Gagaminine**

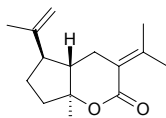
[41060-37-1] C₃₆H₄₃NO₈ (617.75). mp 166~169°C. Source: LUO MO *Metaplexis japonica*. Ref: 6.

**8047 Gaillardin**

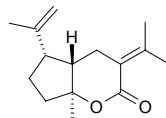
[14682-46-3] C₁₇H₂₂O₅ (306.36). Crystals, mp 199~200°C (vacuum), [α]_D³⁰ = -15° (*c* = 1.08, chloroform). Pharm: Antineoplastic (KB, ED₅₀ = 0.80~1.60µg/mL or 2.30µg/mL); antiprotozoal (amebic and *Trichomonas vaginalis*, 0.24~7.8µg/mL). Source: TIAN REN JU *Gaillardia pulchella*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. Ref: 661.

**8048 Gajutsulactone A**

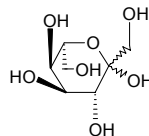
C₁₅H₂₂O₂ (234.34). Colorless oil, [α]_D²⁸ = -128.4° (*c* = 0.10, CHCl₃). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100µmol/L, InRt = (53.6±3.0)%, control *L*-NMMA, 100µmol/L, InRt = (79.2±0.9)%, *p*<0.01). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**8049 Gajutsulactone B**

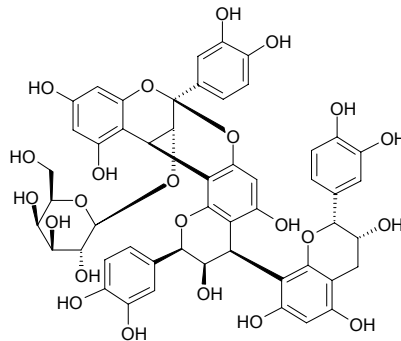
C₁₅H₂₂O₂ (234.34). Colorless oil, [α]_D²⁷ = -35.0° (*c* = 0.10, CHCl₃), [α]_D²⁶ = -53.4° (*c* = 0.1, MeOH). Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100µmol/L, InRt = (57.5±3.5)%, control *L*-NMMA, 100µmol/L, InRt = (79.2±0.9)%, *p*<0.01). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**8050 L-Galactoheptulose**

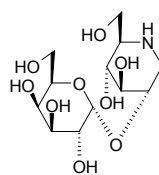
[29325-35-7] C₇H₁₄O₇ (210.19). mp 110~115°C (dec). Source: MU XU *Medicago sativa*. Ref: 6, 1521.

**8051 3T-O-β-D-Galactopyranosylcinamtannin B₁**

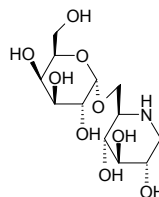
C₅₁H₄₆O₂₃ (1026.92). Light-brown amorphous powder, [α]_D = +17.1° (*c* = 1, MeOH). Pharm: Antioxidant (inhibits NADPH-dependent lipid peroxidation in microsomes and autoxidation of linoleic acid); antioxidant (DPPH scavenger (effective)). Source: KE KE *Theobroma cacao*. Ref: 2023.

**8052 2-O-α-D-Galactopyranosyl-1-deoxynojirimycin**

C₁₂H₂₃NO₉ (325.32). Pharm: Hypoglycemic (mus diabetes mellitus induced by SIZ, distinct effect). Source: SANG ZHI *Morus alba*. Ref: 2170.

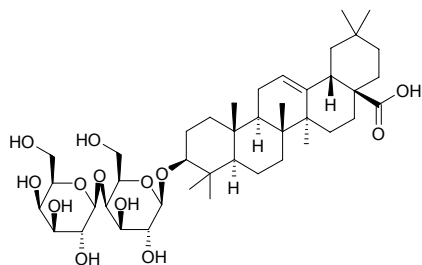
**8053 6-O-α-D-Galactopyranosyl-1-deoxynojirimycin**

C₁₂H₂₃NO₉ (325.32). Source: *Morus* sp. Ref: 2513.

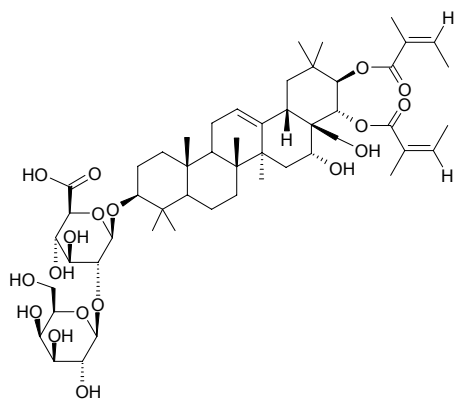


8054 3-O-β-D-Galactopyranosyl-(1→4)-β-D-galactopyranosyleoleanolic acid

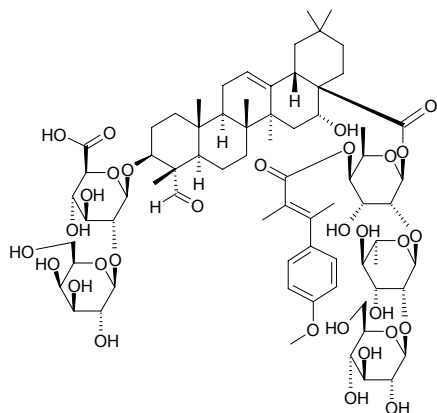
C₄₂H₆₈O₁₃ (781.00). **Pharm:** Cytotoxic (A2780, IC₅₀ = (9.6±0.3)μg/mL; control Actinomycin D, IC₅₀ = 2–5ng/mL). **Source:** DA YE NAN YANG SHEN *Polyscia amplifolia* (infructescence), GUANG YE JUE MING *Cassia laevigata* [Syn. *Cassia floribunda*]. **Ref:** 5397.

**8055 3-O-β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylbarringtonol C**

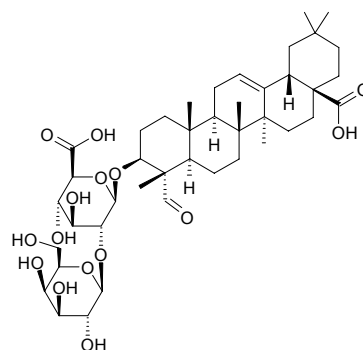
C₅₂H₈₀O₁₈ (993.21). [α]_D²¹ = +2.3° (c = 0.13, MeOH). **Source:** NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem cortex). **Ref:** 5269.

**8056 3-O-[β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranosyl]-28-O-[β-D-glucopyranosyl-(1→2)-α-L-rhamnopyranosyl-(1→2)-β-D-4-O-trans-p-methoxycinnamoyl-fucopyranosyl] quillaic acid**

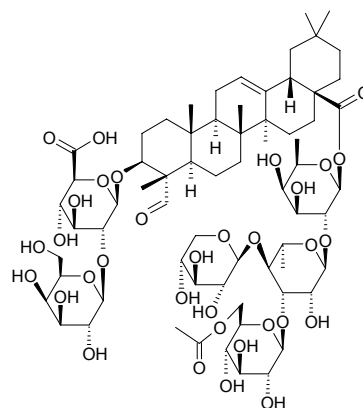
C₇₂H₁₀₆O₃₁ (1467.63). **Source:** HAN MAI PING CAO *Silene jennisensis*. **Ref:** 709.

**8057 3-O-β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranosyl-gypso-genin**

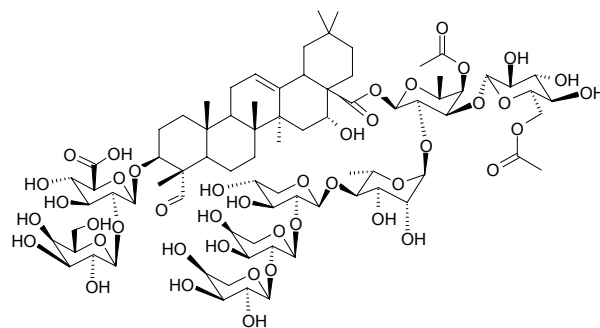
C₄₂H₆₄O₁₅ (808.97). White amorphous powder. **Source:** JIN TIE SUO *Psammosilene tunicoides*. **Ref:** 2261.

**8058 3-O-β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranosyl-gypso-genin-28-O-β-D-xylopyranosyl(1→4)-[β-D-6-O-acetylglucopyranosyl (1→3)]-α-L-rhamnopyranosyl(1→2)-β-D-fucopyranoside**

C₆₇H₁₀₄O₃₃ (1437.56). White powder. **Source:** JIN TIE SUO *Psammosilene tunicoides*. **Ref:** 2261.

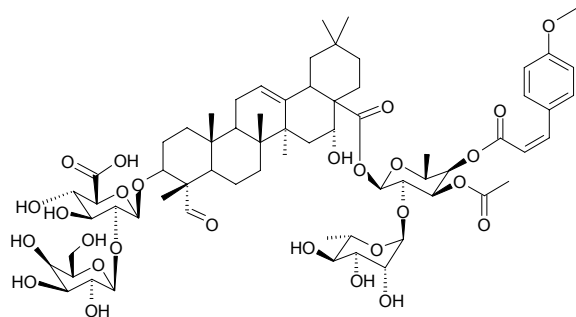


8059 3-O-[β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranosyl] quillaic acid-28-O-[α-L-arabinopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)]-[6-O-acetyl-β-D-glucopyranosyl-(1→3)]-4-O-acetyl-β-D-fucopyranoside
C₇₉H₁₂₂O₄₃ (1757.83). White amorphous powder, [α]_D²⁰ = +13° (c = 0.10, MeOH). **Pharm:** Proliferation stimulator (Jurkat-Tumor cell lines, at low concentration). **Source:** YING ZI CAO *Silene fortunei* (root: yield = 0.0028%dw). **Ref:** 4658.



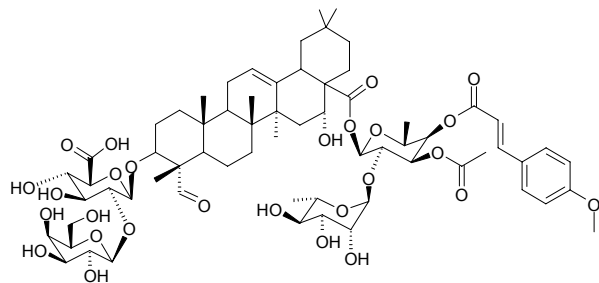
8060 3-O-[β -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl] quillaic acid-28-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-3-O-acetyl-4-O-cis-p-methoxycinnamoyl β -D-fucopyranoside

C₆₆H₉₄O₂₇ (1319.47). White amorphous powder. **Pharm:** Proliferation stimulator or inhibitor (Jurkat-Tumor cell lines, stimulator at low concentration, inhibitor at high concentration). **Source:** YING ZI CAO *Silene fortunei* (root). **Ref:** 4658.



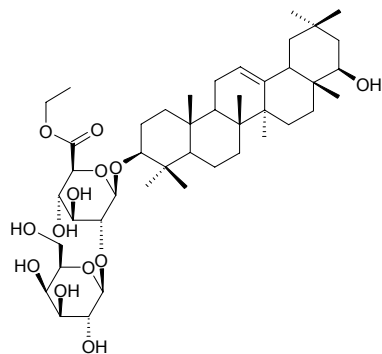
8061 3-O-[β -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl] quillaic acid-28-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-3-O-acetyl-4-O-trans-p-methoxycinnamoyl β -D-fucopyranoside

C₆₆H₉₄O₂₇ (1319.47). White amorphous powder. **Pharm:** Proliferation stimulator or inhibitor (Jurkat-Tumor cell lines, stimulator at low concentration, inhibitor at high concentration). **Source:** YING ZI CAO *Silene fortunei* (root). **Ref:** 4658.



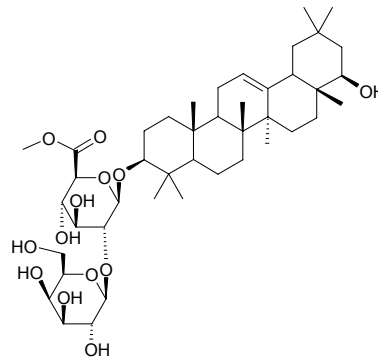
8062 3-O-[β -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl]-sophoradiol ethyl ester

C₄₄H₇₂O₁₃ (809.06). White amorphous powder. **Source:** HUAI *Sophora japonica* (bud). **Ref:** 4823.



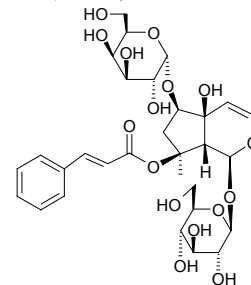
8063 3-O-[β -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl]-sophoradiol methyl ester

C₄₃H₇₀O₁₃ (795.03). **Source:** HUAI *Sophora japonica* (bud). **Ref:** 4823.



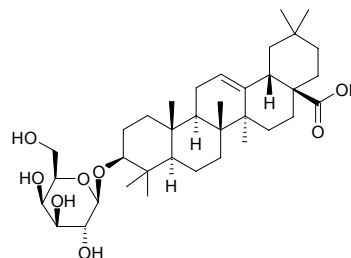
8064 6-O- α -D-Galactopyranosylharpagoside

C₃₀H₄₀O₁₆ (656.64). Amorphous powder, mp 169–173°C, [α]_D = α -7.43° (c = 0.336, MeOH). **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 1855.



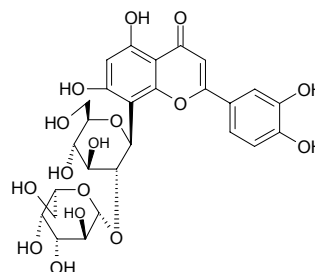
8065 3-O- β -D-Galactopyranosyloleanolic acid

C₃₆H₅₈O₈ (618.86). **Pharm:** Cytotoxic (A2780, IC₅₀ = (10.8±0.5)μg/mL; control Actinomycin D, IC₅₀ = 2–5ng/mL). **Source:** DA YE NAN YANG SHEN *Polyscias amplifolia* (inflorescence), DUAN HUA HU LU *Lagenaria breviflora*, *Brenania brieyi*. **Ref:** 5397.



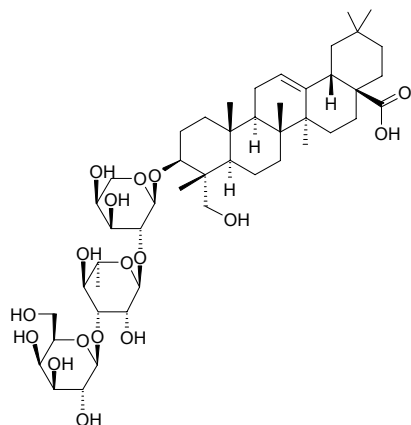
8066 2''-O- β -L-Galactopyranosylorientin

C₂₇H₃₀O₁₆ (610.53). Yellow powder, mp 218–220°C, [α]_D²⁰ = +28.9° (c = 0.045, MeOH). **Source:** DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower). **Ref:** 5278.



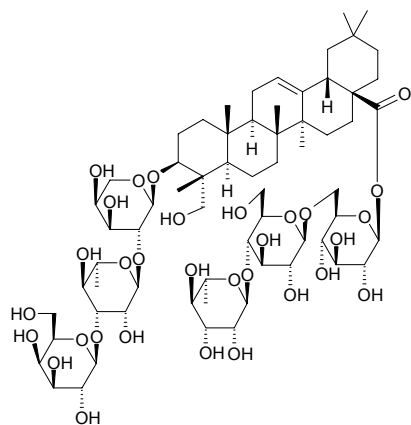
8067 3 β -O- β -D-Galactopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-23-hydroxyolean-12-en-28-oic acid

[245050-38-8] C₄₇H₇₆O₁₇ (913.12). [α]_D²⁵ = +36.2° (c = 0.1, MeOH). Source: DUO BAN LV TI CAO *Caltha polypetala*. Ref: 2338.



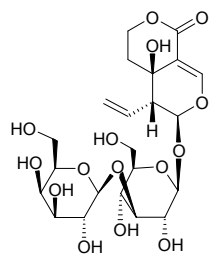
8068 3 β -O- β -D-Galactopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-23-hydroxyolean-12-en-28-oic acid 28-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester

[245050-37-7] C₆₅H₁₀₆O₃₁ (1383.55). [α]_D²⁵ = -18.60° (c = 0.1, MeOH). Source: DUO BAN LV TI CAO *Caltha polypetala*. Ref: 2338.



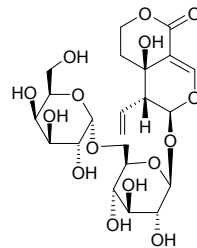
8069 3'-O- β -D-Galactopyranosylswertiamarin

C₂₂H₃₂O₁₅ (536.49). Amorphous powder, [α]_D²⁷ = -88.2° (c = 0.05, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.



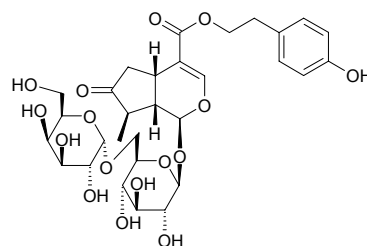
8070 6'-O- α -D-Galactopyranosylswertiamarin

C₂₂H₃₂O₁₅ (536.49). Amorphous powder, [α]_D²⁷ = -46.0° (c = 0.09, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.



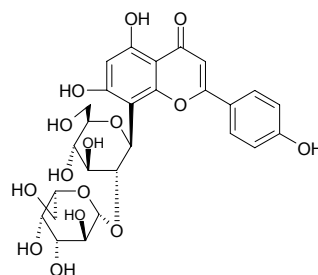
8071 6'-O- α -D-Galactopyranosylsyringopicroside

C₃₀H₄₀O₁₆ (656.64). Amorphous powder, [α]_D²⁵ = -21.1° (c = 0.389, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). Ref: 4363, 4723.



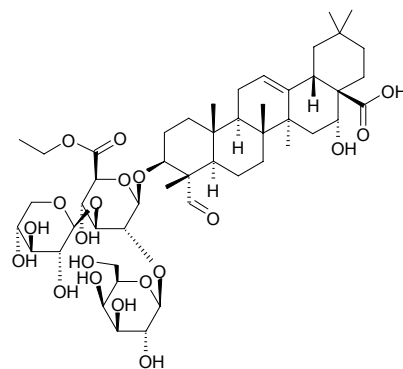
8072 2''-O- β -L-Galactopyranosylvitexin

C₂₇H₃₀O₁₅ (594.53). Yellow powder, mp 260-262°C, [α]_D²⁰ = -37.2° (c = 0.022, MeOH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower). Ref: 5278.



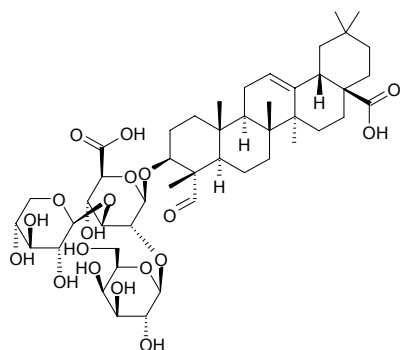
8073 3-O- β -D-Galactopyranosyl-(1 \rightarrow 2)-[β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-6-O-ethylglucuronopyranosyl-quillaic acid

C₄₉H₇₆O₂₀ (985.14). White amorphous powder, mp 232-235°C [α]_D²⁰ = -106.98° (c = 0.43, MeOH). Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 2486.



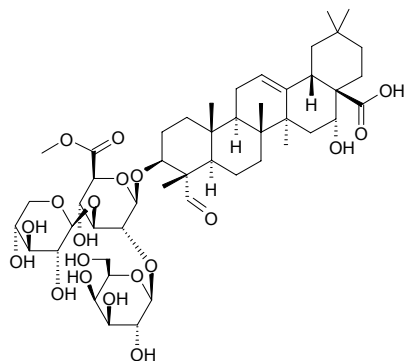
8074 3-O-β-D-Galactopyranosyl-(1→2)-[β-D-xylopyranosyl(1→3)]-β-D-glucuronopyranosyl-gypsogenin

C₄₇H₇₂O₁₉ (941.09). White amorphous powder. Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 2261.



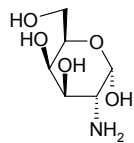
8075 3-O-β-D-Galactopyranosyl(1→2)-[β-D-xylopyranosyl(1→3)]-β-D-6-O-methylglucuronopyranosyl-quillaic acid

C₄₈H₇₄O₂₀ (971.11). White amorphous powder, mp 225~228°C [α]_D²⁵ = +12.31° (c = 0.325, MeOH). Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 2486.



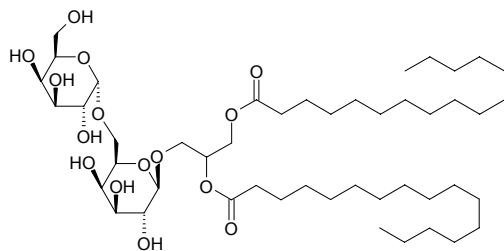
8076 Galactosamine

[7535-00-4] C₆H₁₃NO₅ (179.17). mp D(-) 185°C. Source: LU RONG *Cervus nippon*; *Cervus elaphus*, YE YU *Colocasia antiquorum*. Ref: 2.



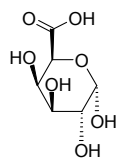
8077 1-O-β-D-Galactosyl (6→1)-α-D-galactosyl-2,3-O-dihexadecanoyl-glycerol

C₄₇H₈₈O₁₅ (893.22). Yellowish gum. Source: XIAO YE GUAN ZHONG *Matteuccia struthiopteris* (rhizome). Ref: 4862.



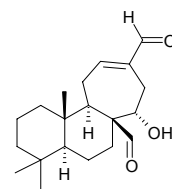
8078 D-Galacturonic acid

[6294-16-2] C₆H₁₀O₇ (194.14). mp (α) 156~159°C (dec), mp (β) 160°C (dec). Source: CHUN *Brasenia schreberi*, FEN TUAN HUA *Hydrangea paniculata*, HAI DAI *Zostera marina*, KU GUA *Momordica charantia*, LUO LE ZI *Ocimum basilicum*, MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*], YE YU *Colocasia antiquorum*, YI ZHU QIAN MA *Urtica dioica*, YU SHU SHU *Zea mays*. Ref: 6, 660.



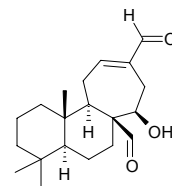
8079 Galanal A

[104086-74-0] C₂₀H₃₀O₃ (318.46). Colorless rhombic Crystals, mp 167~169°C, [α]_D = -44° (c = 0.1, chloroform). Pharm: Antifungal (*Candida guilliermondii*, MIC = 12.5μg/mL); cytotoxic (KB, ED₅₀ = 3.25μg/mL). Source: DA LIANG JIANG *Alpinia galanga*. Ref: 1140.



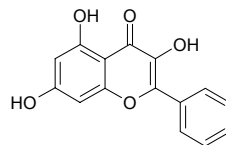
8080 Galanal B

[104113-52-2] C₂₀H₃₀O₃ (318.46). Colorless rhombic Crystals, mp 134.0~134.5°C, [α]_D = -48° (c = 0.1, chloroform). Pharm: Antifungal (*Candida guilliermondii*, MIC = 12.5μg/mL, *Candida tropicalis*, MIC = 50μg/mL); cytotoxic (KB, ED₅₀ = 15.0μg/mL). Source: DA LIANG JIANG *Alpinia galanga*. Ref: 1140.



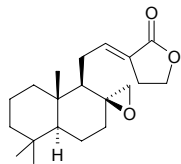
8081 Galangin

4H-1-Benzopyran-4-one,3,5,7-trihydroxy-2-phenyl [548-83-4] C₁₅H₁₀O₅ (270.24). Yellow acicular Crystals (MeOH), mp 214~216°C. Pharm: Antimicrobial (bacteria on skin surface, such as *Pseudomonas maltophilia*, *Enterobacter cloacae*, and *Staphylococcus epidermidis*); cyclo-oxygenase inhibitor (ox spermia); mutagen (*Salmonella aertrycke* TA98 and TA100); antiemetic (young male chicks, copper sulfate induced emesis assay, 20mg/kg, InRt = 25.4%, p < 0.01)^[4649]. Source: BING TOU CAO *Scutellaria galericulata*, CHUI QI MU *Alnus pendula*, DA CHE QIAN *Plantago major*, DA LIANG JIANG *Alpinia galanga*, FENG JIAO *Apis mellifera ligustica*, GAO LIANG JIANG *Alpinia officinarum* (dried rhizome: content scope of 12 origins = 0.35%~1.30%, mean content = 0.756%^[5508]; yield = 0.063%^[4649]), *Escallonia* sp. Ref: 6, 463, 658, 4649, 5501, 5508.

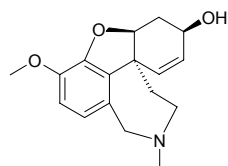


8082 Galanolactone

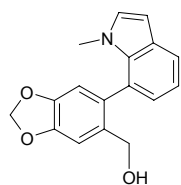
[115753-79-2] C₂₀H₃₀O₃ (318.46). Source: DALIANG JIANG *Alpinia galanga*, SHENG JIANG *Zingiber officinale*. Ref: 1140, 1542.

**8083 Galanthamine**

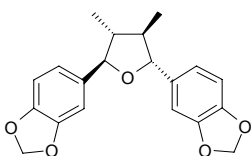
Jikon; Lycoremine; Galantamine [357-70-7] C₁₇H₂₁NO₃ (287.36). Crystals (benzene), mp 126~127°C (benzene), [α]_D²⁰ = -118.8° (c = 1.378, ethanol), soluble in hot water, easily soluble in ethanol, acetone, chloroform, slightly soluble in benzene, ether.^[5507] Pharm: Analgesic; pesticide (kills *Eurema hecabe mandarina*); cholinesterase inhibitor (reversibly inhibits cholinesterase and easily passes BBB: AChE, IC₅₀ = (0.50±0.01) μmol/L, BChE, IC₅₀ = (8.2±0.01) μmol/L); AChE inhibitor (IC₅₀ = (1.9±0.2) μmol/L)^[4952]. Source: BAI SHUI XIAN *Narcissus papyraceus*, DA YI ZHI JIAN *Lycoris aurea*, LU CONG *Lycoris squamigera*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, XIA XUE PIAN *Leucojum aestivum*, XUE HUA LIAN *Galanthus nivalis*, XUE PIAN LIAN *Leucojum vernum*. Ref: 4, 6, 658, 2563, 4952, 5507.

**8084 Galanthindole**

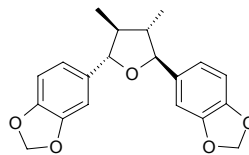
C₁₇H₁₅NO₃ (281.31). Colorless amorphous solid. Source: TU ER QI XUE HUA LIAN *Galanthus plicatus* ssp. *byzantinus*. Ref: 5443.

**8085 (+)-Galbacin**

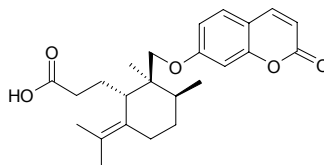
[528-64-3] C₂₀H₂₀O₅ (340.38). Crystals (EtOAc), mp 115.5~116°C, [α]_D = +117° (CHCl₃). Pharm: Antibacterial (*Mycobacterium tuberculosis* H37Rv). Source: RI BEN NAN *Machilus japonica*, SAN JIAO MA DOU LING *Aristolochia triangularis*. Ref: 658, 1521.

**8086 (-)-Galbacin**

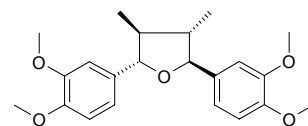
C₂₀H₂₀O₅ (340.38). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, IC₅₀ = 47.7 μmol/L, control quercetin, IC₅₀ = 26.8 μmol/L)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 2537, 4439.

**8087 Galbanic acid**

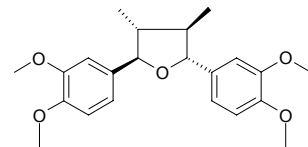
C₂₄H₃₀O₅ (398.50). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

**8088 (-)-Galbelgin**

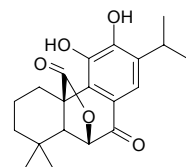
C₂₂H₂₈O₅ (372.47). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, IC₅₀ > 100 μmol/L, control quercetin, IC₅₀ = 26.8 μmol/L). Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 2537.

**8089 (+)-Galbelgin**

C₂₂H₂₈O₅ (372.47). Pharm: Neuroprotective (glutamate-induced neurotoxicity in primary cultures of cortical cells, 0.1 μmol/L, protection rate = (20.9±3.2)%, p<0.05, MK-801: 1.0 μmol/L, protection rate = (83.6±2.0)%, p<0.001, CNQX: 1.0 μmol/L, protection rate = (70.5±1.5)%, p<0.001). Source: HONG NAN PI *Machilus thunbergii*. Ref: 4927.

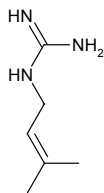
**8090 Galdosol**

rosmanol [52591-18-1] C₂₀H₂₄O₅ (344.41). Pharm: Binding activity to benzodiazepine receptor (IC₅₀ = (0.8±0.1) μmol/L, control Diazepam, IC₅₀ = (0.05±0.01) μmol/L)^[5366]. Source: YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 5366.

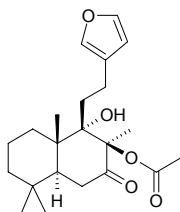


8091 Galegine

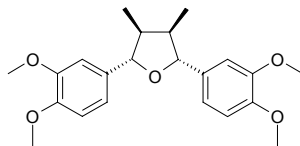
[543-83-9] C₆H₁₃N₃ (127.19). Moisture absorption bitter Crystals, mp 60–65°C. **Pharm:** Hypoglycemic; toxin. **Source:** SHAN YANG DOU *Galega officinalis*. **Ref:** 661.

**8092 Galeopsin**

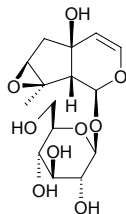
[76475-16-6] C₂₂H₃₂O₅ (376.50). **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. **Ref:** 1543, 4493, 4534.

**8093 (±)-Galgravin**

C₂₂H₂₈O₅ (372.47). **Pharm:** NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, IC₅₀ = 33.4 μmol/L, control quercetin, IC₅₀ = 26.8 μmol/L)^[2537]. **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. **Ref:** 2537, 4439.

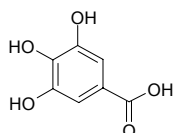
**8094 Galiridoside**

C₁₅H₂₂O₉ (346.34). White powder. **Source:** BO SI YI MU CAO *Leonurus persicus*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 2499, 4483.

**8095 Gallic acid**

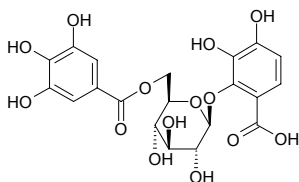
3,4,5-Trihydroxybenzoic acid [149-91-7] C₇H₆O₅ (170.12). mp 235–240°C (dec). **Pharm:** Antiallergic; antibacterial (*in vitro*: *Staphylococcus aureus*, *Sarcina* sp., *α-Streptococcus*, *Neisseria* sp., *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus typhorus* and *Bacillus paratyphosus* A, EC = 5 mg/mL); antineoplastic (mus, pulmonary adenoma induced by morpholine and sodium nitrite); cytotoxic (antioxidant assay)^[5038]; antifungal (17 kinds of fungi *in vitro*, EC = 3%); anti-inflammatory; antimutagenic; antiviral (influenza virus); astringent (intestinal tract of livestock animals); antiasthmatic; choleric; inhibits degradation of insulin, IL-10-like activity (proliferation assay, dose-dependent, maximal at 30 μg/mL)^[4445]; antioxidant (DPPH scavenger, TLC, MIA < 0.05 μg, IC₅₀ = 4 μg/mL)^[5247]; DPPH scavenger (IC₅₀ = (12.4±0.2) μmol/L, control Trolox, IC₅₀ = (25.4±0.8) μmol/L)^[4244]; cell growth inhibitor (tsFT210 cell, ≥ 12.5 μg/L, inhibits G2/M stage); ACE inhibitor (IC₅₀ > 500 μmol/L, control Lisinopril, IC₅₀ = 1 nmol/L); NEP inhibitor (IC₅₀ = 480 μmol/L, control Phosphoramidon, IC₅₀ = 9 nmol/L); APN inhibitor inactive; antibacterial (*Erwinia carotovora*, IZD = 13 mm/100 μg, control Quercetin sulfate, IZD = 21 mm/10 μg; *Staphylococcus aureus*, IZD = 7 mm/100 μg, Quercetin sulfate, IZD = 14 mm/10 μg; *Corynebacterium accolens*, IZD = 7 mm/100 μg, Quercetin sulfate, IZD = 28 mm/10 μg)^[5250]; antifungal (*Candida albicans*, IZD = 7 mm/100 μg, control Nystatin, IZD = 11 mm/20 μg)^[5250]; xanthine oxidase inhibitor (IC₅₀ = 7.1 μg/mL, IC₅₀ = 41.7 μmol/L; control Quercetin, IC₅₀ = 3.4 μg/mL, IC₅₀ = 10 μmol/L)^[5250]. **Source:** A LA BO JIN HE HUAN *Acacia arabica*, BAI HUA QIAN HU *Peucedanum praeruptorum*, BAI LIAN *Ampelopsis japonica* [Syn. *Paullinia japonica*], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 1.13%fw)^[4695], BIAN XU *Polygonum aviculare*, CAO YUAN LAO GUAN CAO *Geranium pratense*, CHANG YE SHUI MA *Debregeasia longifolia*, CHENG LIU *Tamarix chinensis*, CU LIU GUO *Hippophae rhamnoides*, DA HUANG *Rheum officinale* (stem and rhizome: mean content = 0.282%^[5508]), DA YE AN YE *Eucalyptus robusta*, DA YE KU NUO NI *Cunonia macrophylla* (leaf), DI JIN CAO *Euphorbia humifusa*, DI YU *Sanguisorba officinalis* (dried root: mean content of 6 origins = 0.25%^[5508]), DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0047%dw)^[4767], DUO HUA SHAO YAO *Paeonia emodi* (fruit), ER CHA GOU TENG *Uncaria gambir*, FAN SHI LIU GAN *Psidium guajava*, HE TAO DA HUANG *Rheum hotaense* (stem and rhizome: content = 0.38%^[5508]), HE ZI *Terminalia chebula* (fruit: content scope = 1.04%–2.78%^[5501, 5508], content = 1.04%^[5508]), HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HU LU BA *Trigonella foenum-graecum*, HU TAO YE *Juglans regia*, HU ZHANG *Polygonum cuspidatum*, HUA XIANG SHU YE *Platycarya strobilacea*, HUANG LIAN YA *Pistacia chinensis*, HUANG LU *Cotinus coggygria*, HUANG LU ZHI YE *Cotinus coggygria* var. *cinerea*, JI MU *Loropetalum chinense*, KUAN DONG HUA *Tussilago farfara*, LU JIAO QI SHU *Rhus typhina*, LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*], MA SANG YE *Coriaria sinica* [Syn. *Coriaria nepalensis*], MANG GUO *Mangifera indica*, MAO YAN CAO *Euphorbia lumulata* (whole herb), MEI GUI HUA *Rosa rugosa*, MO SHI ZI *Quercus infectoria* (parasitic bee: *Cynips gallae-tinctoriae*), MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*], NAN SUAN ZAO *Choerospondias axillaris* (dried ripe fruit: mean content of 5 origins = 0.063%^[5508]), NI LUO HE CHENG LIU *Tamarix nilotica*, PU⁽²⁾ TAO *Vitis*

vinifera, QIAN NIU ZI *Pharbitis nil*, QIAN QU CAI *Lythrum salicaria*, QING GUO *Canarium album* (dried ripe fruit: content = 0.216%)^[5508], QUAN SHEN *Polygonum bistorta*, SAN WEI ZHI FAN YING TAO *Eugenia sandwicensis*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: mean content of 8 origins = 0.147%)^[5508], SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI DI *Diospyros kaki* (calyx: mean content = 0.029%)^[5508], SHI LIU PI *Punica granatum*, SHU ZHANG LAO GUAN CAO *Geranium sibiricum*, SHUI JIE GU DAN *Epilobium hirsutum*, SU MU *Caesalpinia sappan*, TANG GU TE DA HUANG *Rheum tanguticum* (stem and rhizome: content = 0.93%)^[5508], WEI LING CAI *Potentilla chinensis*, WU JIU MU GEN PI *Sapium sebiferum*, WU JIU YE *Sapium sebiferum*, WU YA GUO *Dillenia indica*, XI FAN LIAN *Passiflora caerulea*, XI XI LI QI SHU *Rhus coriaria*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIANG SI ZI *Abrus precatorius*, XIN XING PU TAO *Syzygium cordatum*, YAN FU ZI *Rhus chinensis* [Syn. *Rhus semialata*], YANG MEI SHU PI *Myrica rubra* (bark: content = 0.026%), YE XIA ZHU *Phyllanthus urinaria* (whole herb: mean content = 0.115%)^[5508], YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), YUE JI HUA *Rosa chinensis*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (stem and rhizome: content = 0.042%)^[5508], ZHANG YE DA HUANG *Rheum palmatum* (stem and rhizome: content = 0.30%)^[5508], ZHU HONG SHI *Diospyros cinnabarina*, ZI WEI HUA *Lagerstroemia indica*., ZONG LV PI *Trachycarpus fortunei* (petiole and fibre of sheath, roasted petiole: mean content of 5 origins = 0.029%)^[5508], occurs in many plants. Ref: 2, 4, 5, 6, 283, 297, 658, 660, 3802, 4163, 4186, 4244, 4445, 4543, 4695, 4767, 4893, 5034, 5038, 5247, 5250, 5375, 5501, 5508.



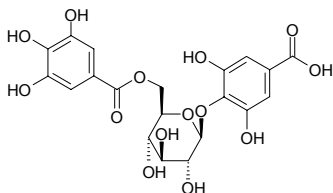
8096 Gallic acid-3-O-(6'-O-galloyl)glucoside

[87087-61-4] C₂₀H₂₀O₁₄ (484.37). Source: AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660, 3094.



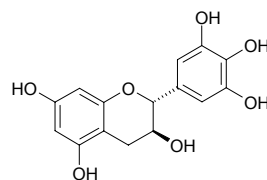
8097 Gallic acid-4-O-(6'-O-galloyl)-glucoside

[87087-62-5] C₂₀H₂₀O₁₄ (484.37). Source: DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.



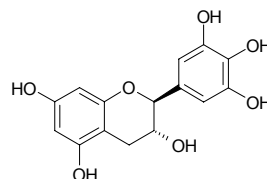
8098 (+)-Gallocatechin

[970-73-0] C₁₅H₁₄O₇ (306.27). Yellow powder, mp 188~190°C, [α]_D²⁰ = -80° (c = 0.5, CHCl₃), mp (+) 185~188°C, (-) 218°C (dec). Pharm: Inhibitory activity against NFAT transcription (IC₅₀ = (24.5±0.9) μmol/L, positive control Cyclosporin A, IC₅₀ = (0.29±0.01) μmol/L)^[2536]; inhibits cancer cell invasion (MM1 cells, *in vitro*, 10 μg/mL, InRt = 24.2%)^[4329]. Source: AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], BAI GUO YE *Ginkgo biloba*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. Ref: 6, 2536, 3094, 4329.



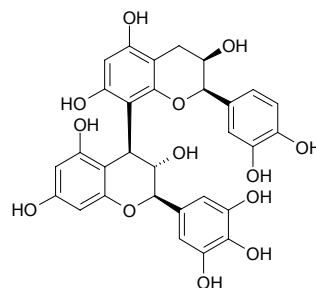
8099 (-)-Gallocatechin

C₁₅H₁₄O₇ (306.27). Red amorphous powder, [α]_D = -5.4° (c = 0.5, MeOH). Source: XIAO GUO YE *Jiao Musa acuminata* (fruit). Ref: 3913.



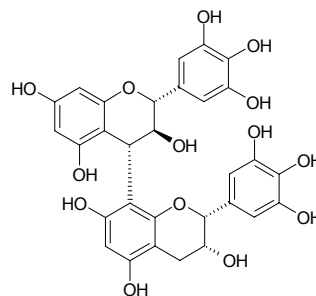
8100 Gallocatechin-(4α→8)epicatechin

[79199-56-7] C₃₀H₂₆O₁₃ (594.53). mp 223~227°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 612.



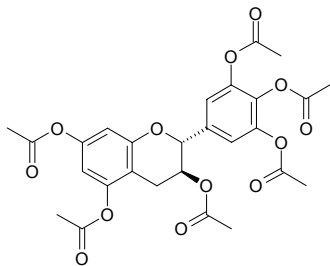
8101 Gallocatechin-(4α→8)-epigallocatechin

C₃₀H₂₆O₁₄ (610.53). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.

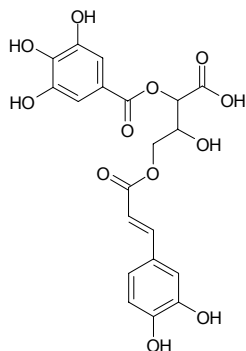


8102 (+)-Gallocatechin-hexacetate

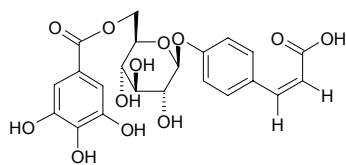
$C_{27}H_{26}O_{13}$ (558.50). Source: BAI GUO *Ginkgo biloba*. Ref: 2.

**8103 (-)-2-Galloyl-4-(E)-caffeoyl-L-threonic acid**

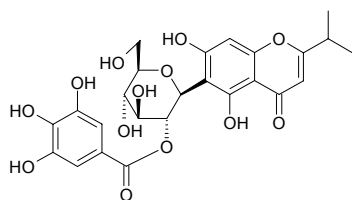
$C_{20}H_{18}O_{12}$ (450.36). Dark brown amorphous powder, mp 128–130°C, $[\alpha]_D^{20} = -27^\circ$ ($c = 0.09$, MeOH). Source: DENG TAI SHU *Cornus controversa* [Syn. *Bothrocaryum controversum*] (leaf). Ref: 3918.

**8104 4-O-(6'-O-Galloyl-β-D-glucopyranosyl)-cis-p-coumaric acid**

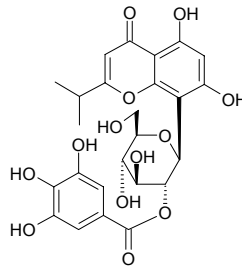
$C_{22}H_{22}O_{12}$ (478.41). White amorphous powder, $[\alpha]_D = -14.3^\circ$ ($c = 1.1$, MeOH). Source: *Monochaetum multijlorum* (leaf). Ref: 5185.

**8105 6-β-C-(2'-Galloylglucopyranosyl)-5,7-dihydroxy-2-isopropylchromone**

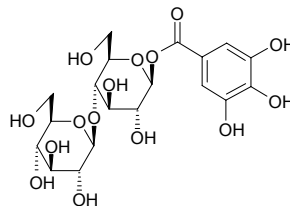
$C_{25}H_{26}O_{13}$ (534.48). Colorless amorphous powder, $[\alpha]_D^{21} = -93.1^\circ$ ($c = 2.50$, MeOH). Source: GANG SONG *Baeckea frutescens*. Ref: 1895.

**8106 8-β-C-(2'-Galloylglucopyranosyl)-5,7-dihydroxy-2-isopropylchromone**

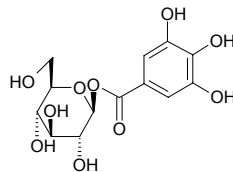
$C_{25}H_{26}O_{13}$ (534.48). Colorless amorphous powder. $[\alpha]_D^{21} = -136.9^\circ$ ($c = 2.53$, MeOH). Source: GANG SONG *Baeckea frutescens*. Ref: 1895.

**8107 1-Galloyl-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside**

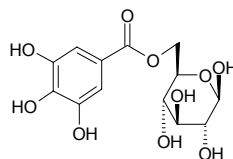
$C_{19}H_{26}O_{15}$ (494.41). Oil, $[\alpha]_D^{25} = +7.2^\circ$ ($c = 0.10$, MeOH). Pharm: Antifungal (*Candida albicans* ATCC2091, MIC > 200μg/mL, control Amphotericin B, MIC = 1μg/mL; *Candida albicans* 32, MIC > 200μg/mL, Amphotericin B, MIC = 4μg/mL; *Candida albicans* 19, MIC = 100μg/mL, Amphotericin B, MIC = 2μg/mL); cytotoxic inactive (MIC > 200μg/mL); antibacterial inactive. Source: *Baseonema acuminatum* (leaf). Ref: 5021.

**8108 1-O-Galloyl-glucose**

Glucogallin $C_{13}H_{16}O_{10}$ (332.27). mp 212°C (dec); mp (α) 179–181°C, (β) 207. Source: AN MO LE *Phyllanthus emblica* (fruit juice, branch and leaf)^[3094], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0056%fw)^[4695], DA HUANG *Rheum officinale*, HE ZI *Terminalia chebula*, YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 6, 660, 3094, 4695.

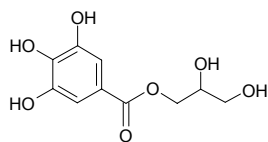
**8109 6-O-Galloyl-glucose**

$C_{13}H_{16}O_{10}$ (332.27). mp 166°C (dec). Source: AN MO LE *Phyllanthus emblica* (root)^[3065], CAO YUAN LAO GUAN CAO *Geranium pratense*, DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*, QUAN SHEN *Polygonum bistorta*. Ref: 2, 660, 3065.

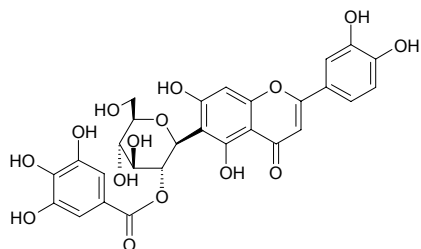


8110 1-O-Galloyl-glycerol

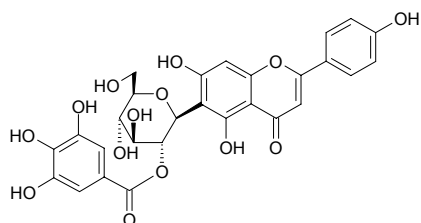
$C_{10}H_{12}O_7$ (244.20). Source: DA HUANG *Rheum officinale*. Ref: 2.

**8111 2''-O-Galloylisorientin**

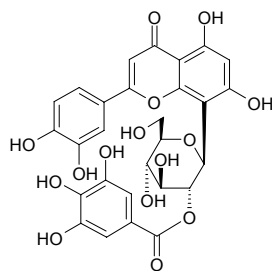
$C_{28}H_{24}O_{15}$ (600.49). Yellow amorphous powder, $[\alpha]_D^{20} = -174^\circ$ ($c = 0.13$, methanol). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*. Ref: 1994.

**8112 2''-O-Galloylisovitexin**

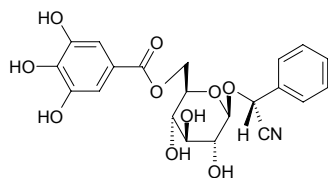
$C_{28}H_{24}O_{14}$ (584.50). Yellow amorphous powder, $[\alpha]_D^{20} = -165^\circ$ ($c = 0.07$, methanol). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*. Ref: 1994.

**8113 2''-O-Galloylorientin**

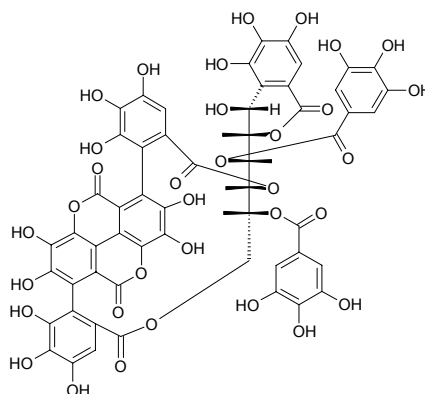
$C_{28}H_{24}O_{15}$ (600.49). Yellow amorphous powder, $[\alpha]_D^{20} = -228.7^\circ$ ($c = 0.15$, methanol). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*. Ref: 1994.

**8114 6'-O-Galloylprunasin**

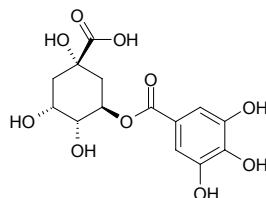
$C_{21}H_{21}NO_{10}$ (447.40). White amorphous powder, $[\alpha]_D = -17.0^\circ$ ($c = 1.9$, MeOH). Source: *Monochaetum multiflorum* (leaf). Ref: 5185.

**8115 5-O-Galloylpunicacortein D**

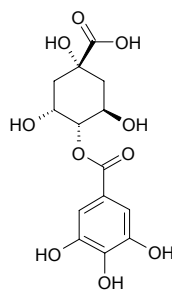
$C_{59}H_{42}O_{34}$ (1294.97). Pale yellow amorphous powder. Source: SHI LIU XIN CAI *Punica granatum*. Ref: 1942.

**8116 3-O-Galloyl quinic acid**

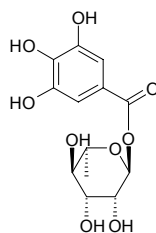
$C_{14}H_{16}O_{10}$ (344.28). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.011%fw). Ref: 4695.

**8117 4-O-Galloyl quinic acid**

$C_{14}H_{16}O_{10}$ (344.28). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0019%fw). Ref: 4695.

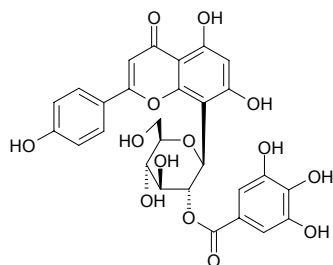
**8118 1-O-Galloyl-α-L-rhamnose**

$C_{13}H_{16}O_9$ (316.27). Source: HONG HUA QI *Acer rubrum*. Ref: 2419.

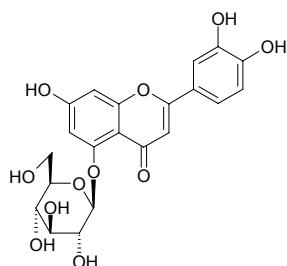


8119 2''-O-Galloylvitexin

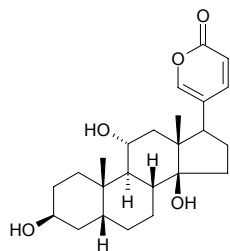
$C_{28}H_{24}O_{14}$ (584.50). Yellow amorphous powder, $[\alpha]_D^{20} = -235.5^\circ$ ($c = 0.11$, methanol). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*. Ref: 1994.

**8120 Galuteolin**

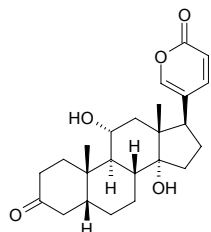
[20344-46-1] $C_{21}H_{20}O_{11}$ (448.39). mp 260~263°C. Source: LIAN ZI XIN *Nelumbo nucifera*, WEN JING *Equisetum arvense*. Ref: 6.

**8121 Gamabufogenin**

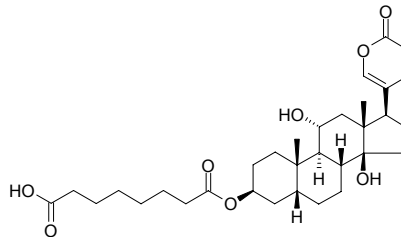
Gamabufotalin [465-11-2] $C_{24}H_{34}O_5$ (402.54). mp 261~263°C (dec). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 0.75\mu\text{g/mL}$; HL-60, $IC_{50} = 0.014\mu\text{g/mL}$; MH-60, $IC_{50} > 25\mu\text{g/mL}$)^[3082]. Source: CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.22%^[5508]); *Bufo melanostictus* (dried secretion: content = 0.01%^[5508]). Ref: 2, 6, 3082, 5508.

**8122 Gamabufotalin**

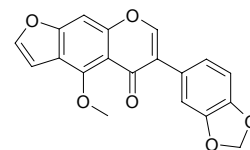
$C_{24}H_{32}O_5$ (400.52). mp 263~265°C. Source: CHAN PI *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

**8123 Gamabufotalin-3-suberate**

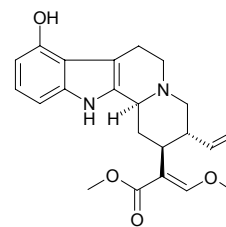
$C_{32}H_{46}O_8$ (558.72). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

**8124 Gamatin**

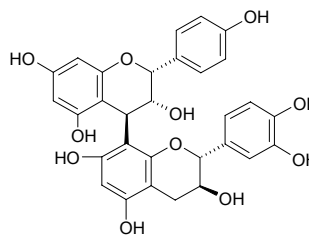
[479-85-6] $C_{19}H_{12}O_6$ (336.30). mp 233~234°C. Source: SHUI LIU DOU *Pongamia pinnata*. Ref: 6.

**8125 Gambireine**

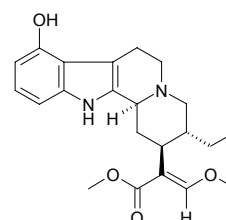
$C_{22}H_{26}N_2O_4$ (382.46). Source: CHANG HUA GOU TENG *Uncaria longiflora*, HOU YE GOU TENG *Uncaria callophylla*. Ref: 5341.

**8126 Gambiriin C**

[76236-89-0] $C_{30}H_{26}O_{11}$ (562.54). Pharm: Tanning agent. Source: ER CHA GOU TENG *Uncaria gambir*. Ref: 658.

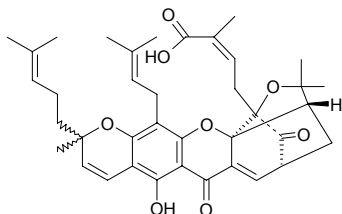
**8127 Gambirine**

[29472-77-3] $C_{22}H_{28}N_2O_4$ (384.48). mp 163~165°C, $[\alpha]_D = +29^\circ$ (chloroform). Pharm: Uterine stimulant. Source: ER CHA GOU TENG *Uncaria gambir*, HOU YE GOU TENG *Uncaria callophylla*. Ref: 6, 660, 661, 1521.

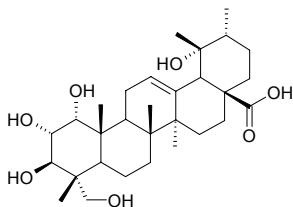


8128 Gambogic acid

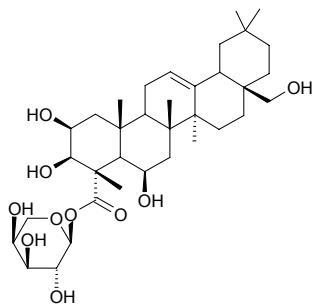
β -Guttiferin [2752-65-0] $C_{38}H_{44}O_8$ (628.73). Yellow amorphous resin; pyridine salt Crystals, mp 147~149°C. **Pharm:** Antineoplastic (mus, EAC, EC = 5mg/kg, S_{180} , InRt = 61%~79%); antiprotozoal (non-pathogenicity, *in vitro*); cytotoxic (cultural hmn liver cancer cells and HeLa, 4 μ g/mL); laxative (mus). **Source:** TENG HUANG *Garcinia morella* (dried balsam: content scope of 9 batch samples = 19.70%~51.05%, mean content = 33.84%)^[5508], TENG HUANG SHU *Garcinia hanburyi*^[661]. **Ref:** 661, 5508.

**8129 Gamboukokoensin A**

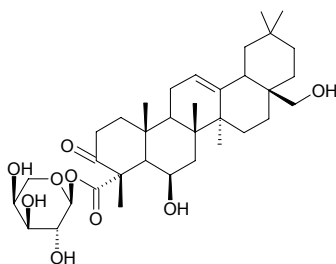
1 α ,2 α ,3 β ,19 α ,23-Pentahydroxyurs-12-en-28-oic acid $C_{30}H_{48}O_7$ (520.71). White powder, mp > 300°C. **Source:** *Gambeya boukokoensis*. **Ref:** 3463.

**8130 Gamboukokoenside A**

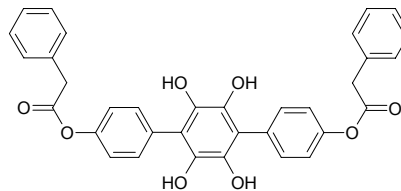
2 β ,3 β ,6 β ,28-Tetrahydroxyolean-12-en-23-oic acid 23-*O*- α -L-arabinopyranosyl ester $C_{35}H_{56}O_{10}$ (636.83). White powder, mp > 300°C. **Source:** *Gambeya boukokoensis*. **Ref:** 3463.

**8131 Gamboukokoenside B**

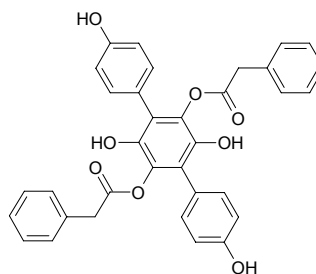
6 β ,28-Dihydroxy-3-oxoolean-12-en-23-oic acid 23-*O*- α -L-arabinopyranosyl ester $C_{35}H_{54}O_9$ (618.82). White powder, mp > 300°C. **Source:** *Gambeya boukokoensis*. **Ref:** 3463.

**8132 Ganbajunin C**

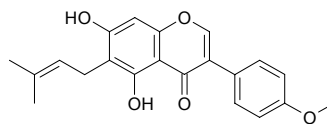
$C_{34}H_{26}O_8$ (562.58). **Source:** JIN HUANG GE JUN *Thelephora aurantiotincta*. **Ref:** 3423.

**8133 Ganbajunin E**

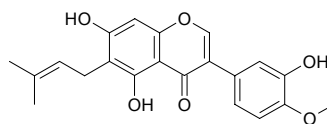
$C_{34}H_{26}O_8$ (562.58). **Source:** JIN HUANG GE JUN *Thelephora aurantiotincta*. **Ref:** 3423.

**8134 Gancaonin A**

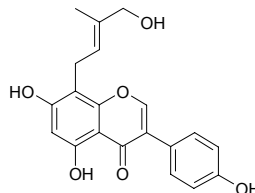
$C_{21}H_{20}O_5$ (352.39). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 660.

**8135 Gancaonin B**

[124596-86-7] $C_{21}H_{20}O_6$ (368.39). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 660.

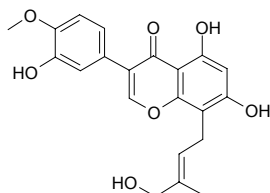
**8136 Gancaonin C**

[124596-87-8] $C_{20}H_{18}O_6$ (354.36). **Pharm:** Antibacterial (*Escherichia coli*, MIA = 0.10 μ g, control Chloramphenicol, MIA = 0.001 μ g; *Bacillus subtilis*, MIA = 0.05 μ g, Chloramphenicol, MIA = 0.001 μ g; *Staphylococcus aureus*, MIA = 0.05 μ g, Chloramphenicol, MIA = 0.001 μ g)^[3785]; antifungal (*Candida mycoderma*, MIA = 0.05 μ g, Miconazole = MIA = 0.0001 μ g)^[3785]; antioxidant (DPPH scavenger, TLC detection limit = 0.5 μ g, IC₅₀ = 610 μ g/mL; control Quercetin, TLC detection limit < 0.05 μ g, IC₅₀ = 7 μ g/mL; Gallic acid, TLC detection limit < 0.05 μ g, IC₅₀ = 4 μ g/mL; Ascorbic acid, TLC detection limit < 0.10 μ g, IC₅₀ = 18 μ g/mL)^[3785]. **Source:** GAN CAO *Glycyrrhiza uralensis*, *Bolusanthus speciosus* (root wood)^[3785]. **Ref:** 660, 2431, 3785.

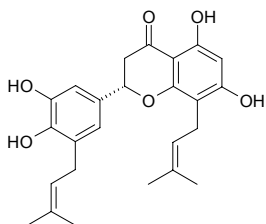


8137 Gancaonin D

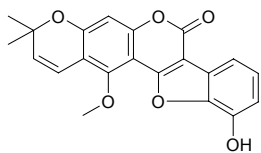
[124596-88-9] C₂₁H₂₀O₇ (384.39). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 660.

**8138 Gancaonin E**

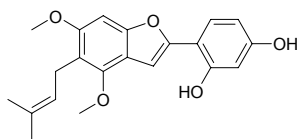
[124596-89-0] C₂₅H₂₈O₆ (424.50). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 660.

**8139 Gancaonin F**

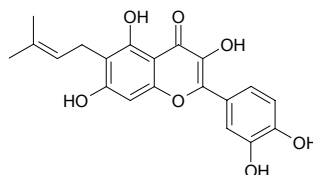
[126716-33-4] C₂₁H₁₆O₆ (364.36). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 660.

**8140 Gancaonin I**

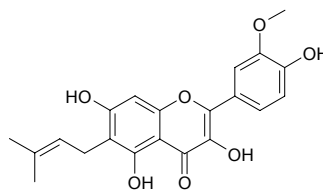
C₂₁H₂₂O₅ (354.41). Pharm: Antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 3.13 μg/mL, control Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecalis* JU1856 (VRE, VanA), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecalis* JU1782 (VRE, VanB), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 3.13 μg/mL, Linezolid MIC = 0.78 μg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (= ATCC29213), MIC = 3.13 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 3.13 μg/mL, Linezolid, mean MIC₈₀ = 0.78 μg/mL)^[5007]. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 5007.

**8141 Gancaonin P**

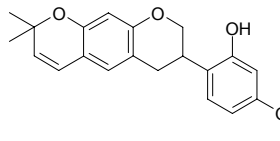
C₂₀H₁₈O₇ (370.36). Pharm: Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**8142 Gancaonin P-3'-methylether**

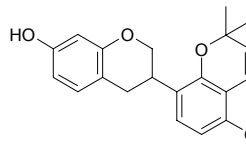
3,5,7,4'-Tetrahydroxy-3'-methoxy-6-isoprenyl flavone C₂₁H₂₀O₇ (384.39). Yellow lamellar Crystals. mp 160–162°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 275, 660.

**8143 Gancaonin X**

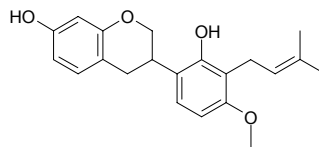
C₂₁H₂₂O₄ (338.41). Source: GAN CAO *Glycyrrhiza Uralensis*. Ref: 2431.

**8144 Gancaonin Y**

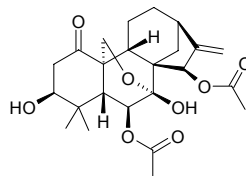
C₂₁H₂₂O₄ (338.41). Source: *Glycyrrhiza* sp. Ref: 2431.

**8145 Gancaonin Z**

C₂₁H₂₄O₄ (340.42). Source: *Glycyrrhiza* sp. Ref: 2431.

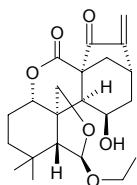
**8146 Ganervosin A**

C₂₄H₃₂O₈ (448.52). mp 224–226°C. Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.

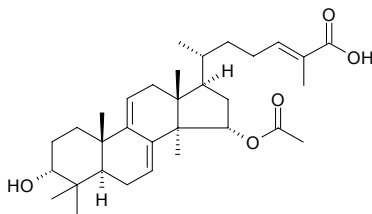


8147 Ganerosin B

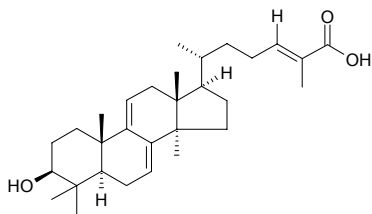
$C_{22}H_{30}O_6$ (390.48). mp 278~281°C, $[\alpha]_D^{20} = -80^\circ$ ($c = 0.23$, C_5H_5N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.

**8148 Ganode-7,9-dien-ric acid X**

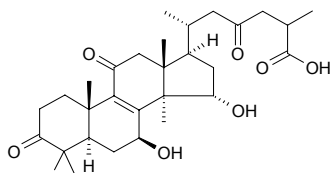
Ganoderic acid X [86377-53-9] $C_{32}H_{48}O_5$ (512.74). Pharm: Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8149 Ganode-7,9-dien-ric acid Y**

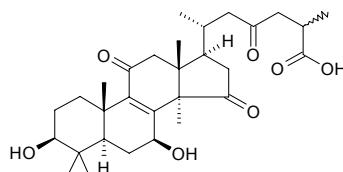
Ganoderic acid Y [86377-52-8] $C_{30}H_{46}O_3$ (454.70). Pharm: Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8150 Ganode-8-en-ric acid A**

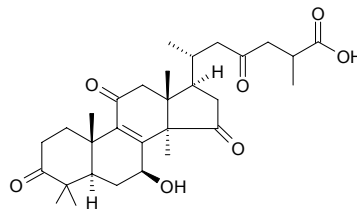
Ganoderic acid A [81907-62-2] $C_{30}H_{44}O_7$ (516.68). Amorphous powder, $[\alpha]_D^{27} = +153.8^\circ$ ($c = 0.156$, $CHCl_3$). Pharm: Analgesic (best dose = 3~5mg/kg sc, InRt of twister reaction = (30~60)%, $p < 0.05$); protein opopanax ester transferase (FPT) selective inhibitor; cytotoxic inactive (mus lung carcinoma LLC cell, $ED_{50} > 20\mu g/mL$; hmn carcinoma T-47D, $ED_{50} > 20\mu g/mL$; S₁₈₀, $ED_{50} > 20\mu g/mL$; mus sarcoma Meth-A, $ED_{50} > 20\mu g/mL$; control adriamycin, $ED_{50} = 0.06\mu g/mL$, $0.02\mu g/mL$, $0.11\mu g/mL$, $0.13\mu g/mL$, respectively)^[4204]. Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: content scope of 6 origins = 0.036%~1.560%, mean content = 0.340%^[5508]; yield = 0.002%^[4603]). Ref: 188, 387, 2235, 4204, 4603, 5508.

**8151 Ganode-8-en-ric acid B**

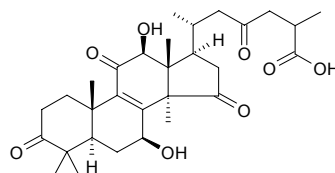
Ganoderic acid B [81907-61-1] $C_{30}H_{44}O_7$ (516.68). Amorphous powder. Pharm: HIV-1 protease inhibitor ($IC_{50} = 0.17\text{mmol/L}$); analgesic (best dose = 3~5mg/kg sc, InRt of twister reaction = (30~60)%, $p < 0.05$). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: mean content of 2 origins = 0.15%^[5508]; yield = 0.0015%^[4603]). Ref: 2235, 4603, 5508.

**8152 Ganode-8-en-ric acid C₁**

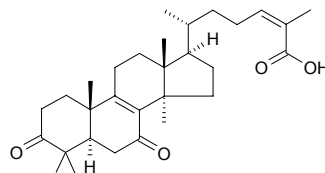
Ganoderic acid C₁ [95311-97-0] $C_{30}H_{42}O_7$ (514.67). Crystals, mp 150~151°C, $[\alpha]_D^{15} = +175.4^\circ$ ($c = 0.057$, $CHCl_3$). Pharm: HIV-1 protease inhibitor ($IC_{50} = 0.18\text{--}0.32\text{mmol/L}$). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8153 Ganode-8-en-ric acid D**

Ganoderic acid D [97653-94-6] $C_{30}H_{42}O_8$ (530.66). Crystals (EtOAc), mp 201~203°C, $[\alpha]_D^{22} = +185^\circ$ ($c = 0.1$, EtOH). Pharm: Antihistamine (inhibits histamine release, mus must cells *in vitro*, induced by ConA, $0.4\mu g/mL$ InRt = 15%). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: content scope of 6 origins = 0.024%~0.686%, mean content = 0.334%^[5508]). Ref: 2235, 5508.

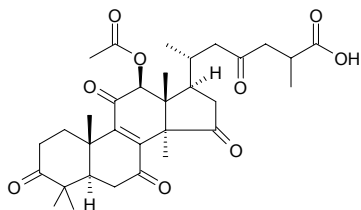
**8154 Ganode-8-en-ric acid DM**

Ganoderic acid DM $C_{30}H_{44}O_4$ (468.68). Yellowish acicular crystals (chloroform-methanol), mp 203~205°C. Source: LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0017%^[4603]). Ref: 387, 4603.

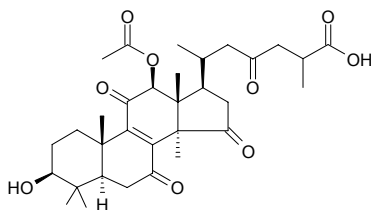


8155 Ganode-8-en-ric acid F

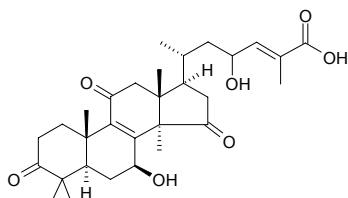
Ganoderic acid F [98665-15-7] C₃₂H₄₂O₉ (570.69). **Pharm:** ACEI (IC₅₀ = 4.7 μmol/L); EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 293 mol ratio/32 pmol TPA, control β-Carotene, IC₅₀ = 400 mol ratio/32 pmol TPA)^[4737]. **Source:** LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0097% dw). **Ref:** 2235, 4737.

**8156 Ganode-8-en-ric acid H**

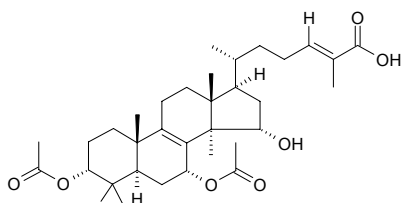
Ganoderic acid H C₃₂H₄₄O₉ (572.70). **Pharm:** HIV-1 protease inhibitor (IC₅₀ = 0.18–0.32 mmol/L); analgesic (best dose = 3–5 mg/kg sc, InRt of twister reaction = (30–60)%, *p* < 0.05). **Source:** LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0025%)^[4603]. **Ref:** 2235, 4603.

**8157 Ganode-8-en-ric acid LM₂**

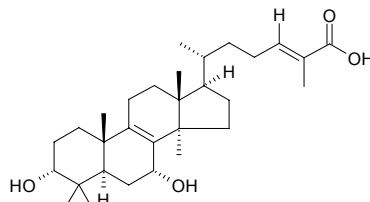
Ganoderic acid LM₂ C₃₀H₄₂O₇ (514.67). mp 227–229°C, [α]_D = +132°. **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8158 Ganode-8-en-ric acid Ma**

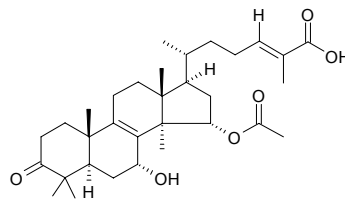
Ganoderic acid Ma C₃₄H₅₂O₇ (572.79). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 1521.

**8159 Ganode-8-en-ric acid U**

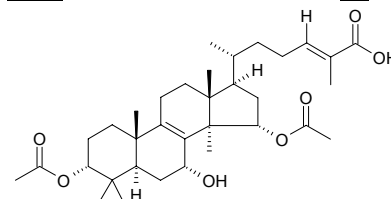
Ganoderic acid U C₃₀H₄₈O₄ (472.71). Crystals, mp 196–199°C, [α]_D = +35°. **Pharm:** Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8160 Ganode-8-en-ric acid V**

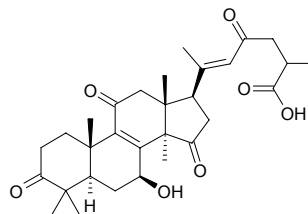
Ganoderic acid V [86377-50-6] C₃₂H₄₈O₆ (528.74). **Pharm:** Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8161 Ganode-8-en-ric acid W**

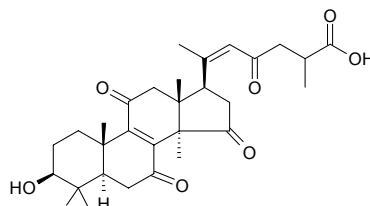
Ganoderic acid W C₃₄H₅₂O₇ (572.79). Amorphous, mp 114–117°C. **Pharm:** Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8162 Ganoderenic acid D**

(*E*)-7β-Hydroxy-3,11,15,23-tetraoxolanosta-8,20(22)-dien-26-oic acid C₃₀H₄₀O₇ (512.65). **Source:** *Ganoderma lipsiense*. **Ref:** 3972.

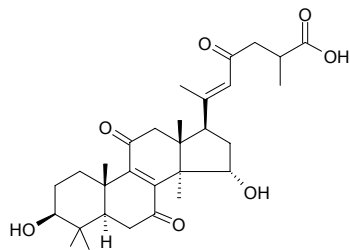
**8163 Ganoderenic acid H**

[120462-48-8] C₃₀H₄₀O₇ (512.65). **Source:** SHU SHE *Ganoderma applanatum*. **Ref:** 1521.

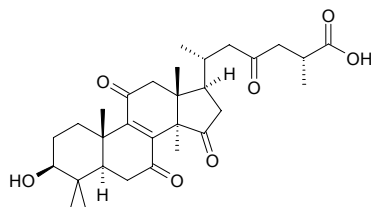


8164 Ganoderenic acid I

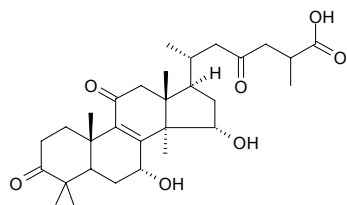
[120462-49-9] C₃₀H₄₂O₇ (514.67). Source: SHU SHE *Ganoderma applanatum*. Ref: 1521.

**8165 Ganoderic acid AM₁**

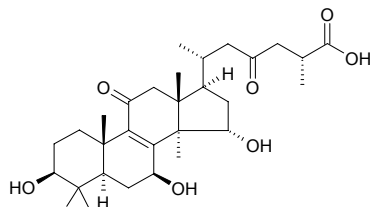
C₃₀H₄₂O₇ (514.67). Source: LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0004%). Ref: 4603.

**8166 Ganoderic acid B₈**

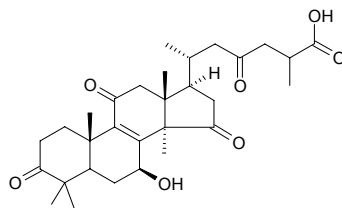
C₃₀H₄₄O₇ (516.68). Pharm: Cytotoxic inactive (mus lung carcinoma LLC cell, ED₅₀ > 20μg/mL; hmn carcinoma T-47D, ED₅₀ > 20μg/mL; mus sarcoma S₁₈₀, ED₅₀ > 20μg/mL; mus sarcoma Meth-A, ED₅₀ > 20μg/mL; control Adriamycin, ED₅₀ = 0.06μg/mL, 0.02μg/mL, 0.11μg/mL, 0.13μg/mL, respectively). Source: LING ZHI *Ganoderma lucidum*. Ref: 4204.

**8167 Ganoderic acid C**

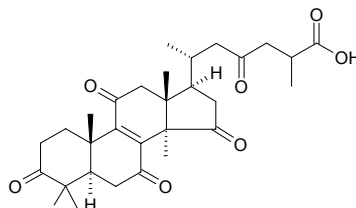
[98296-48-1] C₃₀H₄₆O₇ (518.70). Pharm: Antihistamine (inhibits histamine release, rat mastocyte *in vitro*, inhibits ConA-reduced histamine release, 0.4μg/mL, InRt = 15%); cytotoxic (*in vitro*, HepG₂, IC₅₀ = 0.144nmol/L; Hep2,2,15, IC₅₀ = 0.105nmol/L; CCM2, IC₅₀ = 31.3μmol/L; P₃₈₈, IC₅₀ = 5μmol/L)^[3081]. Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: content scope of 6 origins = 0.106%~0.901%, mean content = 0.472%^[5508]). Ref: 387, 1521, 3081, 5508.

**8168 Ganoderic acid C₁**

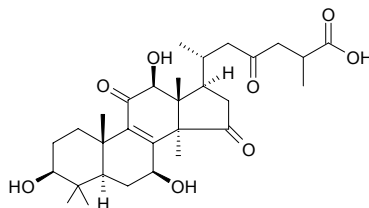
C₃₀H₄₂O₇ (514.67). Pharm: Cytotoxic inactive (mus lung carcinoma LLC cell, ED₅₀ > 20μg/mL; hmn carcinoma T47D, ED₅₀ > 20μg/mL; mus sarcoma S₁₈₀, ED₅₀ > 20μg/mL; mus sarcoma Meth-A, ED₅₀ > 20μg/mL; control Adriamycin, ED₅₀ = 0.06μg/mL, 0.02μg/mL, 0.11μg/mL, 0.13μg/mL, respectively). Source: LING ZHI *Ganoderma lucidum*. Ref: 4204.

**8169 Ganoderic acid E**

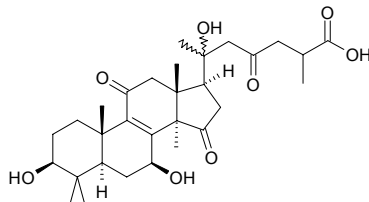
C₃₀H₄₀O₇ (512.65). Pharm: EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 281mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA)^[4737]. Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: content scope of 6 origins = 0.342%~1.129%, mean content = 0.784%^[5508]; yield = 0.0066%^[4737]). Ref: 4737, 5508.

**8170 Ganode-8-en-ric acid G**

Ganoderic acid G [98665-22-6] C₃₀H₄₄O₈ (532.68). Plates (EtOAc-MeOH), mp 218~220°C, [α]_D²² = +105.7° (c = 0.48, CHCl₃). Pharm: Analgesic (best dose = 3~5mg/kg sc, InRt of twister reaction = (30~60)%, p < 0.05). Source: LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.005%^[4603]). Ref: 2235, 4603.

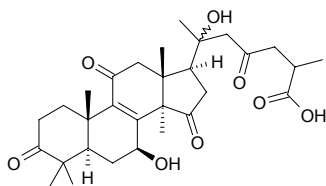
**8171 Ganoderic acid I**

C₃₀H₄₄O₈ (532.68). Source: LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0013%). Ref: 4603.

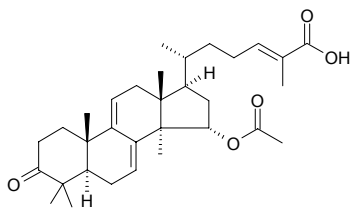


8172 Ganoderic acid N

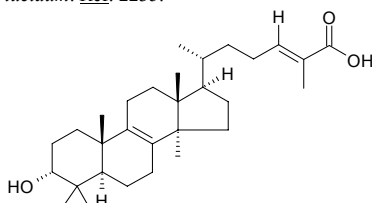
7 β ,20-Dihydroxy-3,11,15,23-tetraoxolanosta-8-en-26-oic acid C₃₀H₄₂O₈
(530.66). Source: *Ganoderma lipsiense*. Ref: 3972.

**8173 Ganoderic acid T-Q**

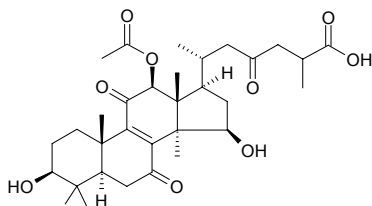
C₃₂H₄₆O₅ (510.72). Pharm: EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 281mol ratio/32pmol TPA, control β -Carotene, IC₅₀ = 400mol ratio/32pmol TPA). Source: LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.0124%dw). Ref: 4737.

**8174 Ganoderic acid Z**

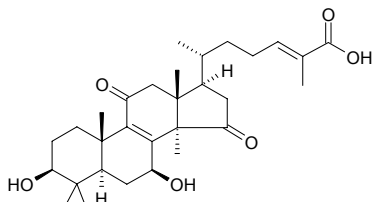
[86420-19-1] C₃₀H₄₈O₃ (456.72). Pharm: Cytotoxic (mus hepatosarcoma cell HTC, distinctly inhibits cell proliferation). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8175 Ganoderic acid α**

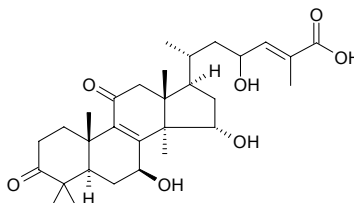
C₃₂H₄₆O₉ (574.72). [α]_D = +55°. Pharm: HIV-1 protease inhibitor (IC₅₀ = 0.18–0.32mmol/L). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8176 Ganoderic acid β**

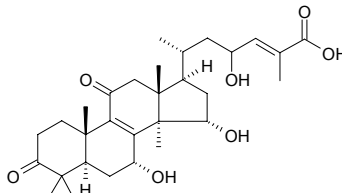
C₃₀H₄₄O₆ (500.68). mp 187–189°C, [α]_D = +60°. Pharm: HIV-1 protease inhibitor (*in vitro*, IC₅₀ = 20 μ mol/L). Source: LING ZHI *Ganoderma lucidum*. Ref: 341, 2235.

**8177 Ganoderic acid γ**

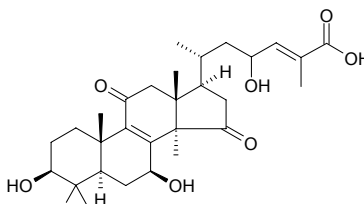
(7 β ,15 α ,23S,24E)-7,15,23-Trihydroxy-3,11-dioxolanosta-8,24-dien-26-oic acid [294674-00-3] C₃₀H₄₄O₇ (516.68). mp 243–245°C, [α]_D = +155.3°. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8178 Ganoderic acid δ**

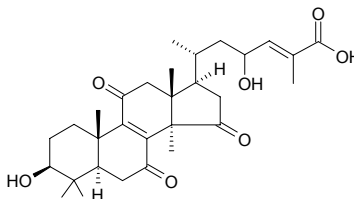
[294674-02-5] C₃₀H₄₄O₇ (516.68). [α]_D = +160°. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8179 Ganoderic acid ϵ**

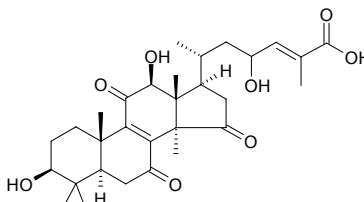
3,7,23-Trihydroxy-11,15-dioxolanosta-8,24-dien-26-oic acid [294674-05-8] C₃₀H₄₄O₇ (516.68). mp 249–251°C, [α]_D = +153.3°. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8180 Ganoderic acid ζ**

3,23-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid. [294674-09-2] C₃₀H₄₂O₇ (514.67). mp 143–145°C, [α]_D = +213.3°. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

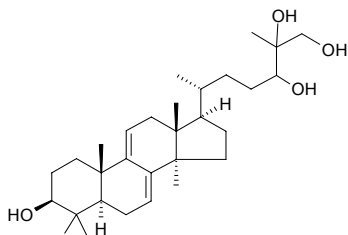
**8181 Ganoderic acid θ**

C₃₀H₄₂O₈ (530.66). mp 131–133°C, [α]_D = +71.3°. Source: LING ZHI *Ganoderma lucidum*. Ref: 255, 2235.

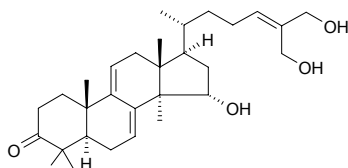


8182 Ganoderiol A

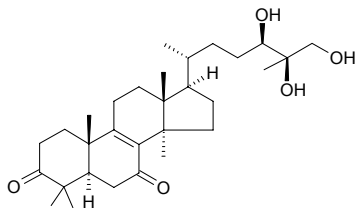
$C_{30}H_{50}O_4$ (474.73). Needles ($CHCl_3$), mp 232–234°C, $[\alpha]_D^{23} = +20^\circ$ ($c = 0.1$, EtOH). **Pharm:** HIV-1 protease inhibitor ($IC_{50} = 0.18\text{--}0.32\text{mmol/L}$). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8183 Ganoderiol B**

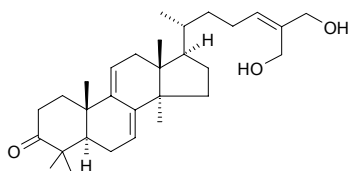
[106518-62-1] $C_{30}H_{46}O_4$ (470.70). Amorphous powder. **Pharm:** HIV-1 protease inhibitor ($IC_{50} = 0.17\text{mmol/L}$). **Source:** LING ZHI *Ganoderma lucidum* (sporocarp: yield = 0.00025%)^[4603]. **Ref:** 2235, 4603.

**8184 Ganoderiol D**

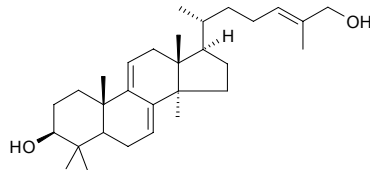
[114567-45-2] $C_{30}H_{48}O_5$ (488.71). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 387.

**8185 Ganoderiol F**

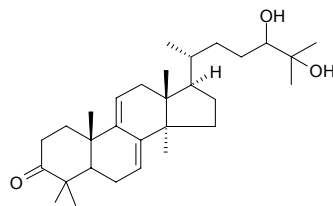
[114567-47-4] $C_{30}H_{46}O_3$ (454.70). Yellowish plates ($CHCl_3\text{--}MeOH$), mp 116–120°C, $[\alpha]_D^{21} = +42^\circ$ ($c = 0.1$, MeOH). **Pharm:** Anti-HIV-1 (MT-4 cell, inhibits cytotoxic effect induced by HIV-1, $IC_{100} = 7.8\mu\text{g/mL}$ and this concentration is 50% of that of cytotoxic concentration only); HIV-1 protease inhibitor ($IC_{50} = 0.18\text{--}0.32\text{mmol/L}$). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**8186 Ganodermediol**

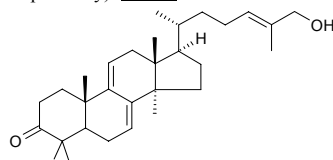
$C_{30}H_{48}O_2$ (440.72). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, $ED_{50} > 20\mu\text{g/mL}$; hmn carcinoma T-47D, $ED_{50} > 20\mu\text{g/mL}$; mus sarcoma S₁₈₀, $ED_{50} > 20\mu\text{g/mL}$; mus sarcoma Meth-A, $ED_{50} = 10.3\mu\text{g/mL}$; control Adriamycin, $ED_{50} = 0.06\mu\text{g/mL}$, $0.02\mu\text{g/mL}$, $0.11\mu\text{g/mL}$, $0.13\mu\text{g/mL}$, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

**8187 Ganodermanondiol**

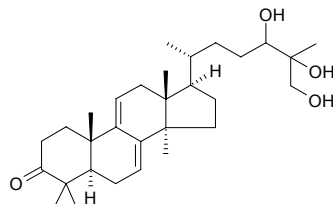
$C_{30}H_{48}O_3$ (456.72). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, $ED_{50} = 14.0\mu\text{g/mL}$; hmn breast carcinoma T47D, $ED_{50} = 4.7\mu\text{g/mL}$; mus sarcoma S₁₈₀, $ED_{50} = 11.0\mu\text{g/mL}$; mus sarcoma Meth-A, $ED_{50} = 9.2\mu\text{g/mL}$; control Adriamycin, $ED_{50} = 0.06\mu\text{g/mL}$, $0.02\mu\text{g/mL}$, $0.11\mu\text{g/mL}$, $0.13\mu\text{g/mL}$, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

**8188 Ganodermanonol**

$C_{30}H_{46}O_2$ (438.70). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, $ED_{50} > 20\mu\text{g/mL}$; hmn breast carcinoma T47D, $ED_{50} = 4.8\mu\text{g/mL}$; mus sarcoma S₁₈₀, $ED_{50} = 10.0\mu\text{g/mL}$; mus sarcoma Meth-A, $ED_{50} = 2.8\mu\text{g/mL}$; control Adriamycin, $ED_{50} = 0.06\mu\text{g/mL}$, $0.02\mu\text{g/mL}$, $0.11\mu\text{g/mL}$, $0.13\mu\text{g/mL}$, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

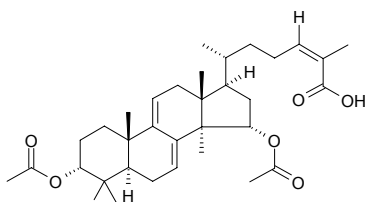
**8189 Ganodermanontriol**

[106518-63-2] $C_{30}H_{48}O_4$ (472.71). Crystals, mp 168–170°C, $[\alpha]_D^{24} = +41^\circ$ ($c = 0.2$, MeOH). **Pharm:** Anti-HIV-1 (MT-4 cell, inhibits cytotoxic effect induced by HIV-1, $IC_{100} = 7.8\mu\text{g/mL}$ and this concentration is 50% of that of cytotoxic concentration only); cytotoxic inactive (mus lung carcinoma LLC cell, $ED_{50} > 20\mu\text{g/mL}$; hmn carcinoma T47D, $ED_{50} > 20\mu\text{g/mL}$; mus sarcoma S₁₈₀, $ED_{50} > 20\mu\text{g/mL}$; mus sarcoma Meth-A, $ED_{50} > 20\mu\text{g/mL}$; control adriamycin, $ED_{50} = 0.06\mu\text{g/mL}$, $0.02\mu\text{g/mL}$, $0.11\mu\text{g/mL}$, $0.13\mu\text{g/mL}$, respectively)^[4204]. **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235, 4204.

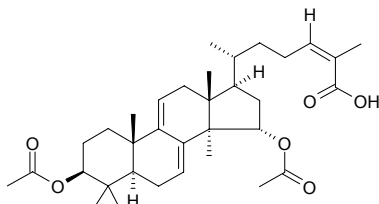


8190 Ganodermic acid R

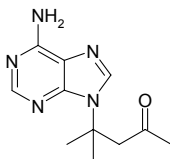
[108026-93-3] C₃₄H₅₀O₆ (554.77). Pharm: inhibits biosynthesis of cholesterol (inhibits absorption of cholesterol in foods). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8191 Ganodermic acid S**

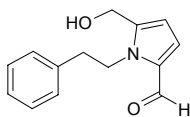
[112430-63-4] C₃₄H₅₀O₆ (554.77). Pharm: platelet aggregation inhibitor (2 μmol/L, InRt = 50%, 7.5~10 μmol/L, InRt = 100%, IC₅₀ = 2 μmol/L); inhibits biosynthesis of cholesterol (inhibits absorption of cholesterol in foods). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8192 Ganoderpurine**

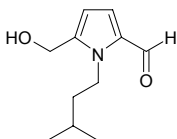
[133086-82-5] C₁₁H₁₅N₅O (233.28). Oleaginous substance, mp 151~152°C. Source: BAO GAI LING ZHI *Ganoderma capense*. Ref: 164.

**8193 Ganodine**

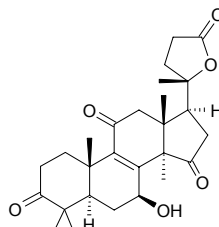
[133086-81-4] C₁₄H₁₅NO₂ (229.28). Source: BAO GAI LING ZHI *Ganoderma capense*. Ref: 164.

**8194 Ganoine**

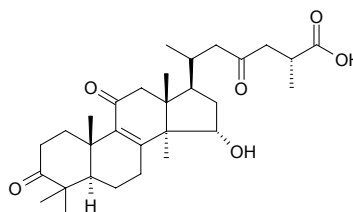
[133086-80-3] C₁₁H₁₇NO₂ (195.26). Oleaginous liquid. Source: BAO GAI LING ZHI *Ganoderma capense*. Ref: 164.

**8195 Ganolactone**

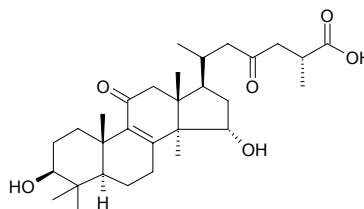
Lucidenolactone C₂₇H₃₆O₆ (456.58). White acicular Crystals, mp 294~296°C, [α]_D²⁰ = +6° (c = 0.1148, chloroform). Source: LING ZHI *Ganoderma lucidum*. Ref: 350, 3081.

**8196 Ganolucidic acid A**

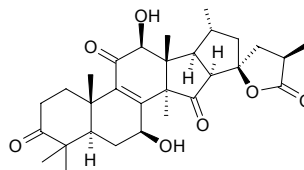
[98665-21-5] C₃₀H₄₄O₆ (500.68). Pharm: HIV-1 protease inhibitor (distinct effect). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8197 Ganolucidic acid B**

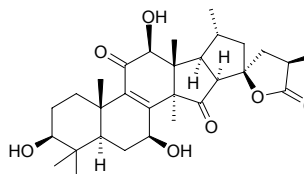
[98683-75-1] C₃₀H₄₆O₆ (502.70). Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**8198 Ganosporelactone A**

C₃₀H₄₀O₇ (512.65). White acicular Crystals, mp 238~240°C, [α]_D¹³ = +74.5° (c = 0.057, chloroform). Source: LING ZHI *Ganoderma lucidum*. Ref: 192.

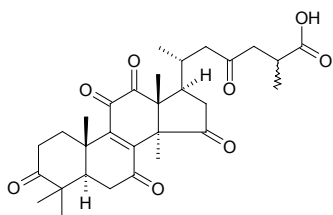
**8199 Ganosporelactone B**

C₃₀H₄₂O₇ (514.67). White acicular Crystals, mp 235~237°C, [α]_D¹² = +68.8° (c = 0.083, chloroform). Source: LING ZHI *Ganoderma lucidum*. Ref: 192.

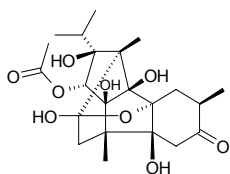


8200 Ganosporeric acid A

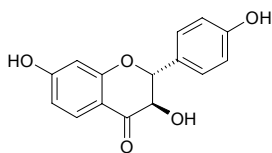
[135357-25-4] C₃₀H₃₈O₈ (526.63). Yellow acicular Crystals, mp 115~118°C, [α]_D²⁸ = +48° (c = 0.1, chloroform). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: mean content of 2 origins = 0.14%^[5508]) Ref: 188, 5508.

**8201 Garajonone**

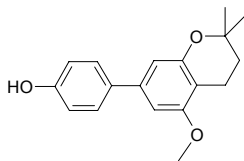
C₂₂H₃₂O₉ (440.49). Pharm: Antifeedant (*Spodoptera littoralis*, EC₅₀ > 23nmol/cm², *Leptinotarsa decemlineata*, EC₅₀ > 23nmol/cm²). Source: YIN DU E LI *Persea indica* (aerial parts). Ref: 5128.

**8202 Garbanzol**

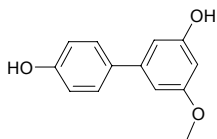
Aromadendrin-4',7-dimethyl ether [1226-22-8] C₁₅H₁₂O₅ (272.26). mp 189~190°C. Source: HUI HUI DOU *Cicer arietinum*, NING MENG AN YE *Eucalyptus citriodora*. Ref: 6, 1521.

**8203 Garcibenzopyran**

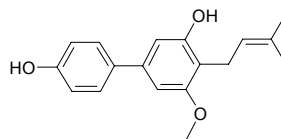
C₁₈H₂₀O₃ (284.36). Colorless amorphous powder, mp 82~83°C. Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 3.98μg/mL, control Mithramycin ED₅₀ = 0.06μg/mL, HT29 ED₅₀ = 6.90μg/mL, control Mithramycin ED₅₀ = 0.08μg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 4094.

**8204 Garcibiphenyl A**

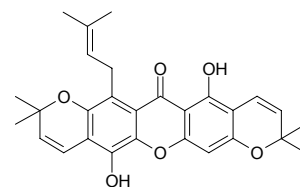
C₁₇H₁₂O₃ (216.24). Colorless oil. Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 10.2μg/mL, control Mithramycin ED₅₀ = 0.06μg/mL, HT29 ED₅₀ = 13.5μg/mL, control Mithramycin ED₅₀ = 0.08μg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 4094.

**8205 Garcibiphenyl B**

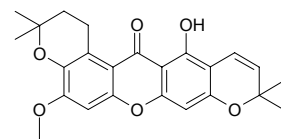
C₁₈H₂₀O₃ (284.36). Colorless oil. Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 6.63μg/mL, control Mithramycin ED₅₀ = 0.06μg/mL, HT29 ED₅₀ = 12.7μg/mL, control Mithramycin ED₅₀ = 0.08μg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 4094.

**8206 Garcimangosone A**

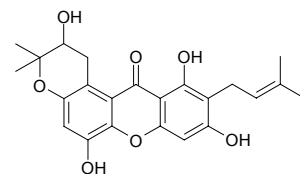
C₂₈H₂₈O₆ (460.53). Yellow powder, mp 143~145°C. Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

**8207 Garcimangosone B**

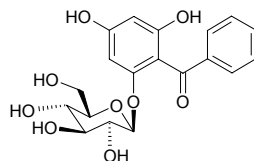
C₂₄H₂₄O₆ (408.46). Yellow powder, mp 136~138°C. Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

**8208 Garcimangosone C**

C₂₃H₂₄O₇ (412.44). Yellow powder, mp 260~262°C. Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

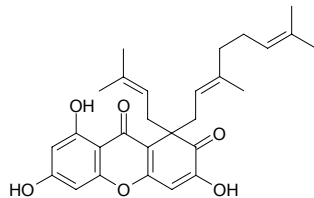
**8209 Garcimangosone D**

C₁₉H₂₀O₉ (392.37). Yellow powder, mp 136~138°C, [α]_D²⁵ = -64° (c = 0.5, MeOH). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

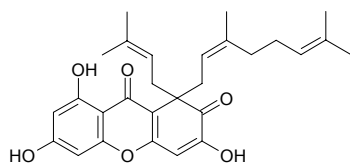


8210 Garcinianone A

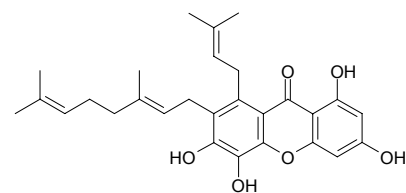
$C_{28}H_{32}O_6$ (464.56). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.48$, $CHCl_3$). **Pharm:** Cytotoxic (BST, $LD_{50} = 7.7\mu\text{mol/L}$; control Berberine, $LD_{50} = 67\mu\text{mol/L}$); antioxidant (DPPH radical scavenger, $IC_{50} = 107.4\mu\text{mol/L}$; control Catechin, $IC_{50} = 2.53\mu\text{mol/L}$). **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.000042%dw). **Ref:** 4708.

**8211 Garcinianone B**

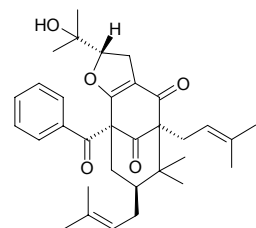
$C_{28}H_{32}O_6$ (464.56). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.21$, $CHCl_3$). **Pharm:** Cytotoxic (BST, $LD_{50} = 25.8\mu\text{mol/L}$; control Berberine, $LD_{50} = 67\mu\text{mol/L}$); antioxidant (DPPH radical scavenger, $IC_{50} = 144.8\mu\text{mol/L}$; control Catechin, $IC_{50} = 2.53\mu\text{mol/L}$). **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.000036%dw). **Ref:** 4708.

**8212 Garciniaxanthone E**

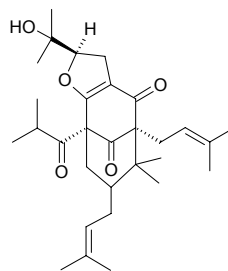
$C_{28}H_{32}O_6$ (464.56). **Pharm:** Neurite outgrowth enhancer (PC12D cells, $10\mu\text{mol/L}$, NGF-mediated neurite outgrowth, to enhance the ability of NGF, may be useful in the treatment of neurological disorders). **Source:** DA YE TENG HUANG *Garcinia xanthochymus* (wood). **Ref:** 4404.

**8213 Garcinielliptone K**

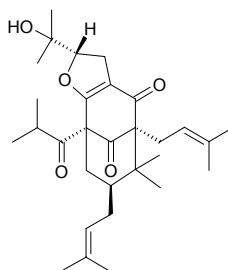
2α -Benzoyl-9,9-dimethyl-6 α ,8 β -di-(γ,γ -dimethylallyl)-3,4-[2 α -(2'-hydroxyisopropyl)-2,3-dihydrofuran]-8 α -H-cis-bicyclo[3.3.1]nona-3-ene-1,5-dione $C_{33}H_{42}O_5$ (518.7). Colorless oil, $[\alpha]_D = +27^\circ$ ($c = 0.27$, $CHCl_3$). **Source:** FU MU *Garcinia subelliptica* (seed: yield = 0.000027%fw). **Ref:** 4773.

**8214 Garcinielliptone L**

9,9-Dimethyl-6 α ,8 β -di-(γ,γ -dimethylallyl)-3,4-[2 β -(2'-hydroxyisopropyl)-2,3-dihydrofuran]-2 α -(1-oxo-2-methylpropyl)-8 α -H-cis-bicyclo[3.3.1]nona-1,5-dione $C_{30}H_{44}O_5$ (484.68). Colorless oil, $[\alpha]_D = -41^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Anti-inflammatory (rat mast cells stimulated with $10\mu\text{g/mL}$ compound 48/80, *in vitro*: inhibits release of β -glucuronidase, $IC_{50} = 22.9\mu\text{mol/L}$; inhibits release of histamine, $IC_{50} > 30\mu\text{mol/L}$; control Mepacrine, inhibits release of β -glucuronidase, $IC_{50} = 13.7\mu\text{mol/L}$; inhibits release of histamine, $IC_{50} = 23.3\mu\text{mol/L}$); anti-inflammatory (inhibits accumulation of NO_2^- , culture media of RAW264.7 macrophage-like cells in response to $1\mu\text{g/mL}$ LPS, $IC_{50} = 22.7\mu\text{mol/L}$; N9 microglial cells in response to lipopolysaccharide (10ng/mL)/IFN- γ (10U/mL), $IC_{50} = 12.8\mu\text{mol/L}$; control *N*-(3-Aminomethyl)benzylacetamide, RAW264.7 cells, $IC_{50} = 2.9\mu\text{mol/L}$; N9 cells, $IC_{50} = 6.3\mu\text{mol/L}$). **Source:** FU MU *Garcinia subelliptica* (seed: yield = 0.00011%fw). **Ref:** 4773.

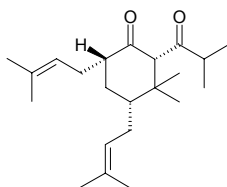
**8215 Garcinielliptone M**

9,9-Dimethyl-6 α ,8 β -di-(γ,γ -dimethylallyl)-3,4-[2 β -(2'-hydroxyisopropyl)-2,3-dihydrofuran]-2 α -(1-oxo-2-methylpropyl)-8 α -H-cis-bicyclo[3.3.1]nona-1,5-dione $C_{30}H_{44}O_5$ (484.68). Colorless oil, $[\alpha]_D = +73^\circ$ ($c = 0.16$, $CHCl_3$). **Pharm:** Anti-inflammatory (rat mast cells stimulated with $10\mu\text{g/mL}$ compound 48/80, *in vitro*: inhibits release of β -glucuronidase, $IC_{50} = 13.6\mu\text{mol/L}$; inhibits release of histamine, $IC_{50} = 19.0\mu\text{mol/L}$; control Mepacrine, inhibits release of β -glucuronidase, $IC_{50} = 13.7\mu\text{mol/L}$; inhibits release of histamine, $IC_{50} = 23.3\mu\text{mol/L}$); anti-inflammatory (inhibits accumulation of NO_2^- , culture media of RAW264.7 macrophage-like cells in response to $1\mu\text{g/mL}$ LPS, $IC_{50} = 15.3\mu\text{mol/L}$; N9 microglial cells in response to lipopolysaccharide (10ng/mL)/IFN- γ (10U/mL), $IC_{50} > 30\mu\text{mol/L}$; control *N*-(3-Aminomethyl)benzylacetamide, RAW264.7 cells, $IC_{50} = 2.9\mu\text{mol/L}$; N9 cells, $IC_{50} = 6.3\mu\text{mol/L}$). **Source:** FU MU *Garcinia subelliptica* (seed, yield = 0.00008%fw). **Ref:** 4773.

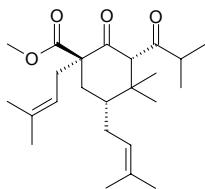


8216 Garcinielliptone N

3,3-Dimethyl-4 α ,6 α -di(γ , γ -dimethylallyl)-2 α -(2-methyl-1-oxopropyl)cyclohexanone C₂₂H₃₆O₂ (332.53). Colorless oil, $[\alpha]_D = -42^\circ$ ($c = 0.38$, CHCl₃). **Pharm:** Anti-inflammatory inactive (rat mast cells stimulated with 10 μ g/mL compound 48/80, *in vitro*: inhibits release of β -glucuronidase, IC₅₀ > 30 μ mol/L; inhibits release of histamine, IC₅₀ > 30 μ mol/L; control Mepacrine, inhibits release of β -glucuronidase, IC₅₀ = 13.7 μ mol/L; inhibits release of histamine, IC₅₀ = 23.3 μ mol/L); anti-inflammatory inactive (inhibits accumulation of NO₂⁻, culture media of RAW264.7 macrophage-like cells in response to 1 μ g/mL LPS, IC₅₀ > 30 μ mol/L; N9 microglial cells in response to lipopolysaccharide (10ng/mL)/IFN- γ (10U/mL), IC₅₀ > 30 μ mol/L; control *N*-(3-Aminomethyl)benzylacetamide, RAW264.7 cells, IC₅₀ = 2.9 μ mol/L; N9 cells, IC₅₀ = 6.3 μ mol/L). **Source:** FU MU *Garcinia subelliptica* (seed, yield = 0.000053%fw). **Ref:** 4773.

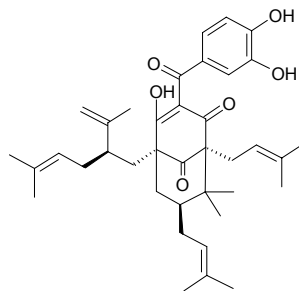
**8217 Garcinielliptone O**

6-Methoxycarbonyl-3,3-dimethyl-4 α ,6 α -di(γ , γ -dimethylallyl)-2 α -(2-methyl-1-oxo-propyl)cyclohexanone C₂₄H₃₈O₄ (390.57). Colorless oil, $[\alpha]_D = -277^\circ$ ($c = 016$, CHCl₃). **Pharm:** Anti-inflammatory inactive (rat mast cells stimulated with 10 μ g/mL compound 48/80, *in vitro*: inhibits release of β -glucuronidase, IC₅₀ > 30 μ mol/L; inhibits release of histamine, IC₅₀ > 30 μ mol/L; control Mepacrine, inhibits release of β -glucuronidase, IC₅₀ = 13.7 μ mol/L; inhibits release of histamine, IC₅₀ = 23.3 μ mol/L); anti-inflammatory inactive (inhibits accumulation of NO₂⁻, culture media of RAW264.7 macrophage-like cells in response to 1 μ g/mL LPS, IC₅₀ > 30 μ mol/L; N9 microglial cells in response to lipopolysaccharide (10ng/mL)/IFN- γ (10U/mL), IC₅₀ > 30 μ mol/L; control *N*-(3-Aminomethyl)benzylacetamide, RAW264.7 cells, IC₅₀ = 2.9 μ mol/L; N9 cells, IC₅₀ = 6.3 μ mol/L). **Source:** FU MU *Garcinia subelliptica* (seed: yield = 0.00028%fw). **Ref:** 4773.

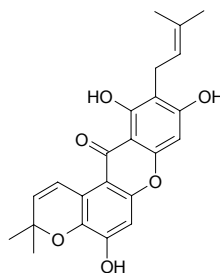
**8218 Garcinol**

Camboginol; Guttiferone E [78824-30-3] C₃₈H₅₀O₆ (602.82). **Pharm:** Antibacterial (*Staphylococcus aureus* MRSA, MIC = 16 μ g/mL)^[4452]; antifungal; antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 74%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antioxidant (DPPH radical scavenger, 10 μ mol/L, ScRt = 59%, IC₅₀ = 10.10 μ mol/L; control BHT, 10 μ mol/L, ScRt = 43%, IC₅₀ = 19.00 μ mol/L)^[4422]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 16 μ g/mL, control Vancomycin, MIC = 2 μ g/mL;

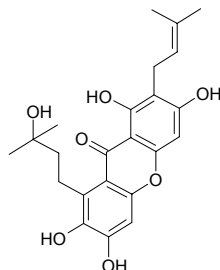
Staphylococcus aureus MRSA SK1, MIC = 16 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]. **Source:** TENG HUANG SHAN ZHU ZI *Garcinia cambogia*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), YIN DU TENG HUANG *Garcinia indica*, *Garcinia bancana* (twig and leaf). **Ref:** 658, 4422, 4452, 5319.

**8219 Garcinone B**

C₂₃H₂₂O₆ (394.43). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 6.25 μ g/mL)^[4358]; antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 15%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 8 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC > 128 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]; cytotoxic inactive (KB cancer cell lines, BC-1, NCI-H187)^[1619]; antioxidant inactive (DPPH scavenger, 50 μ mol/L, ScRt = 6.9%; control BHT, 50 μ mol/L, ScRt = 51.7%, IC₅₀ = 28.9 μ mol/L)^[4423]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0017%dw)^[1619], DAO NIAN ZI *Garcinia mangostana* (fruit hull), HUANG NIU MU *Cratoxylum cochinchinense* (root), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 1521, 1619, 3066, 4358, 4422, 4423, 5319.

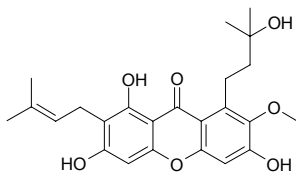
**8220 Garcinone C**

C₂₃H₂₆O₇ (414.46). **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 7.48 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 2.18 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, IC₅₀ = 3.66 μ g/mL Ellipticine, IC₅₀ = 0.39 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0068%dw). **Ref:** 1619.

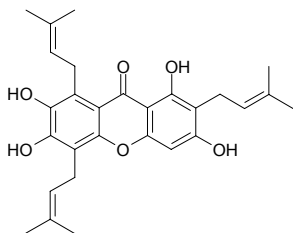


8221 Garcinone D

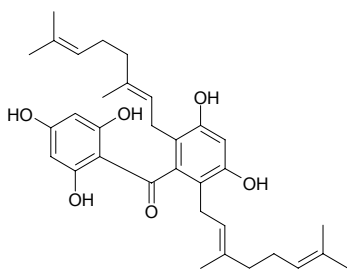
$C_{24}H_{28}O_7$ (428.49). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 25 $\mu\text{g}/\text{mL}$)^[4358]; antioxidant (DPPH scavenger, 10 $\mu\text{mol}/\text{L}$, ScRt = 3%, control BHT, 10 $\mu\text{mol}/\text{L}$, ScRt = 43%)^[5319]; antioxidant inactive (DPPH scavenger, 50 $\mu\text{mol}/\text{L}$, ScRt = 6.9%; control BHT, 50 $\mu\text{mol}/\text{L}$, ScRt = 51.7%, IC₅₀ = 28.9 $\mu\text{mol}/\text{L}$)^[4423]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 16 $\mu\text{g}/\text{mL}$, control Vancomycin, MIC = 2 $\mu\text{g}/\text{mL}$; *Staphylococcus aureus* MRSA SK1, MIC = 32 $\mu\text{g}/\text{mL}$, Vancomycin, MIC = 2 $\mu\text{g}/\text{mL}$)^[5319]; cytotoxic (KB cancer cell lines, IC₅₀ = 3.56 $\mu\text{g}/\text{mL}$, control Ellipticine, IC₅₀ = 1.33 $\mu\text{g}/\text{mL}$; BC-1, IC₅₀ = 2.81 $\mu\text{g}/\text{mL}$, Ellipticine, IC₅₀ = 1.46 $\mu\text{g}/\text{mL}$; NCI-H187, IC₅₀ = 11.04 $\mu\text{g}/\text{mL}$ Ellipticine, IC₅₀ = 0.39 $\mu\text{g}/\text{mL}$)^[1619]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull), DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.030%dw)^[1619], HUANG NIU MU *Cratogeomys cochinchinense* (root), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 1521, 1619, 3066, 4358, 4423, 5319.

**8222 Garcinone E**

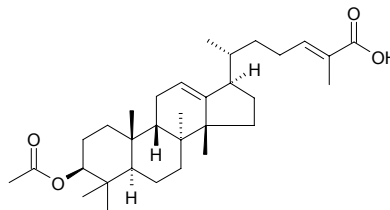
$C_{28}H_{32}O_6$ (464.56). **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 2.67 $\mu\text{g}/\text{mL}$, control Ellipticine, IC₅₀ = 1.33 $\mu\text{g}/\text{mL}$; BC-1, IC₅₀ = 1.44 $\mu\text{g}/\text{mL}$, Ellipticine, IC₅₀ = 1.46 $\mu\text{g}/\text{mL}$; NCI-H187, IC₅₀ = 3.74 $\mu\text{g}/\text{mL}$ Ellipticine, IC₅₀ = 0.39 $\mu\text{g}/\text{mL}$)^[1619]; cytotoxic (*in vitro*, HL-60, IC₅₀ = 15.0 $\mu\text{mol}/\text{L}$)^[4715]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull, pericarp), DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0078%dw)^[1619]. **Ref:** 1619, 3066, 4715.

**8223 Garciosaphenone A**

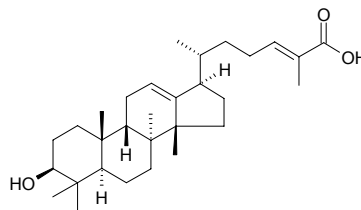
$C_{33}H_{42}O_6$ (534.70). Yellow solid, mp 159–161°C. **Pharm:** Anti-HIV-1 (HIV-1 reverse transcriptase assay, 200 $\mu\text{g}/\text{mL}$, InRt = 97.7%, IC₅₀ = 23.9 $\mu\text{g}/\text{mL}$). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 5491.

**8224 Garciosaterpene A**

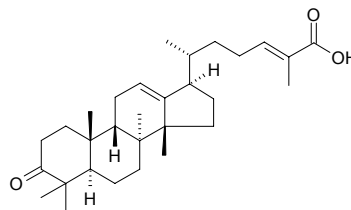
$C_{32}H_{50}O_4$ (498.75). White needles, mp 120–121°C, $[\alpha]_D^{29} = +12^\circ$ ($c = 0.13$, MeOH). **Pharm:** Anti-HIV-1 (HIV-1 reverse transcriptase assay, 200 $\mu\text{g}/\text{mL}$, InRt = 96.2%, IC₅₀ = 15.5 $\mu\text{g}/\text{mL}$). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 5491.

**8225 Garciosaterpene B**

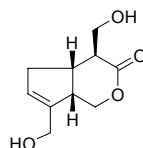
$C_{30}H_{48}O_3$ (456.72). White needles, mp 201–202°C, $[\alpha]_D^{29} = -121^\circ$ ($c = 0.008$, MeOH). **Pharm:** Anti-HIV-1 (HIV-1 reverse transcriptase assay, 200 $\mu\text{g}/\text{mL}$, InRt = 38.1%). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 5491.

**8226 Garciosaterpene C**

$C_{30}H_{46}O_3$ (454.70). White needles, mp 93–95°C, $[\alpha]_D^{29} = +125^\circ$ ($c = 0.008$, MeOH). **Pharm:** Anti-HIV-1 (HIV-1 reverse transcriptase assay, 200 $\mu\text{g}/\text{mL}$, InRt = 96.3%, IC₅₀ = 12.2 $\mu\text{g}/\text{mL}$). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (trunk bark and stems). **Ref:** 5491.

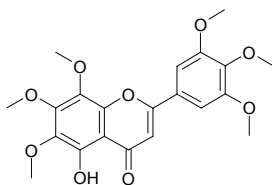
**8227 Gardendiol**

[160262-60-2] $C_{10}H_{14}O_4$ (198.22). **Source:** ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 317, 1521.

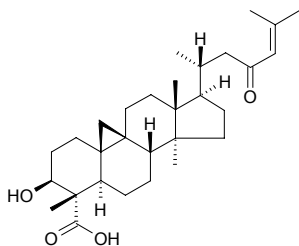


8228 Gardenin

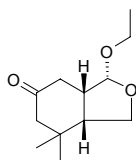
5-Hydroxy-6,7,8,3',4',5'-hexamethoxy flavone [21187-73-5] $C_{21}H_{22}O_8$ (418.40). mp 163~164°C. Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*]. Ref: 2, 33, 626.

**8229 Gardenolic acid A**

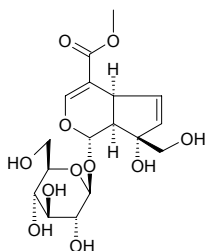
$C_{30}H_{46}O_4$ (470.70). Pharm: Anti-HIV-1 (syncytium assay: $IC_{50} > 125 \mu\text{g/mL}$, $EC_{50} = 110.0 \mu\text{g/mL}$; HIV-1 RT assay: $200 \mu\text{g/mL}$, $\text{InRt} = 92.3\%$, $IC_{50} < 22.5 \mu\text{g/mL}$, Fagaronine chloride $IC_{50} = 10.9 \mu\text{g/mL}$, Nevirapine $IC_{50} = 1.8 \mu\text{g/mL}$). Source: TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). Ref: 4963.

**8230 Gardenone**

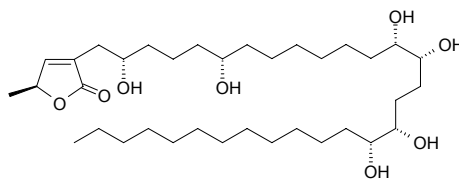
$C_{12}H_{20}O_3$ (212.29). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 317, 1521.

**8231 Gardenoside**

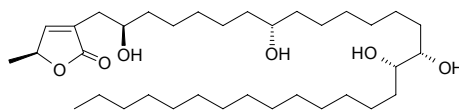
[24512-62-7] $C_{17}H_{24}O_{11}$ (404.37). mp 118~120°C. Pharm: Laxative (mus, orl, $ED_{50} = 1.2 \text{g/kg}$). Source: JING NI PING *Genipa Americana* (fruit), SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 3.75%^[5508]). Ref: 2, 658, 4524, 5501, 5508.

**8232 Gardnerilin A**

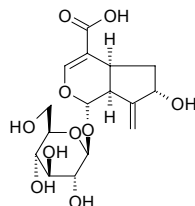
$C_{35}H_{66}O_8$ (614.91). White amorphous powder, mp 94~95°C, $[\alpha]_D^{11} = +21.9^\circ$ ($c = 0.07$, MeOH). Source: CHANG YE GE NA XIANG *Goniothalamus gardneri*. Ref: 774.

**8233 Gardnerilin B**

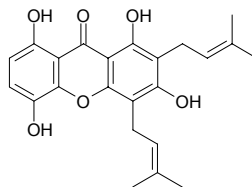
$C_{35}H_{66}O_6$ (582.91). White amorphous powder, mp 65~66°C, $[\alpha]_D^{11} = +12.78^\circ$ ($c = 0.11$, MeOH). Source: CHANG YE GE NA XIANG *Goniothalamus gardneri*. Ref: 774.

**8234 Gardoside**

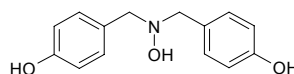
[54835-76-6] $C_{16}H_{22}O_{10}$ (374.35). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 3954.

**8235 Gartanin**

$C_{23}H_{24}O_6$ (396.44). Pharm: Cytotoxic (KB cancer cell lines, $IC_{50} = 15.63 \mu\text{g/mL}$, control Ellipticine, $IC_{50} = 1.33 \mu\text{g/mL}$; BC-1, $IC_{50} = 15.54 \mu\text{g/mL}$, Ellipticine, $IC_{50} = 1.46 \mu\text{g/mL}$; NCI-H187, $IC_{50} = 1.08 \mu\text{g/mL}$ Ellipticine, $IC_{50} = 0.39 \mu\text{g/mL}$)^[1619], antioxidant (DPPH scavenger, $10 \mu\text{mol/L}$, $\text{ScRt} = 2\%$, control BHT, $10 \mu\text{mol/L}$, $\text{ScRt} = 43\%$)^[5319]. Source: DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0060%dw)^[1619], TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 1521, 1619, 3066, 5319.

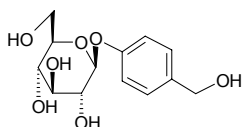
**8236 Gastrodamine**

$C_{14}H_{15}NO_3$ (245.28). Colorless acicular Crystals (CHCl_3 -MeOH), mp 185~187°C. Source: TIAN MA *Gastrodia elata*. Ref: 888.

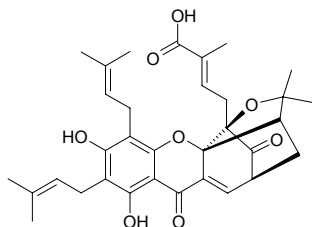


8237 Gastrodin

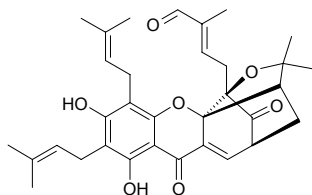
4-Hydroxybenzyl alcohol 4-*O*- β -*D*-glucopyranoside [62499-27-8] C₁₃H₁₈O₇ (286.28). White solid, mp 96–98°C, [α]_D¹⁵ = –66.4° (water), soluble in water, methanol, acetone, hot acetic ester, slightly soluble in ether.^[5507] **Source:** LAN YU BAI JI *Bletilla formosana* (whole herb), SHAN HU LAN *Galeola faberi*, SHI LUO ZI *Anethum graveolens* (fruit), TIAN MA *Gastrodia elata* (dried tuber: content scope of 5 batch samples = 0.210%–0.943%, mean content = 0.467%^[5513]). **Ref:** 4, 280, 4177, 4500, 5501, 5507, 5513.

**8238 Gaudichaudic acid**

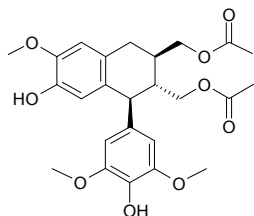
C₃₃H₃₈O₈ (562.67). Bright yellow amorphous powder, [α]_D²⁸ = –535°, (*c* = 0.065, CHCl₃). **Pharm:** Cytotoxic (hmn leukemia: doxorubicin-resistant K562, IC₅₀ = (0.61±0.05)μg/mL, control Adriamycin, IC₅₀ = (1.79±0.17)μg/mL; drug-sensitive K562, IC₅₀ = (0.41±0.03)μg/mL, Adriamycin, IC₅₀ = (0.11±0.01)μg/mL). **Source:** TENG HUANG SHU *Garcinia hanburyi* (resin). **Ref:** 1583.

**8239 Gaudichaudione A**

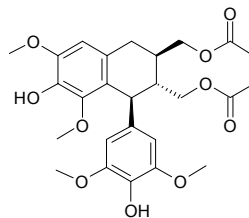
C₃₃H₃₈O₇ (546.67). Yellow oil, [α]_D = –571.7° (*c* = 0.1, CHCl₃). **Pharm:** Cytotoxic. **Source:** GAO DI CHA SHAN ZHU ZI *Garcinia gaudichaudii*. **Ref:** 1521.

**8240 Gaultherin A**

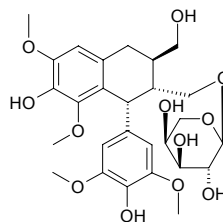
5-Methoxy-(+)-isolariciresinol-9,9'-diacetate [243468-37-3] C₂₅H₃₀O₉ (474.51). White powder (acetone:water = 2:1), mp 159–160°C, [α]_D²³ = +30° (*c* = 0.08, MeOH). **Source:** DIAN BAI ZHU SHU *Gaultheria yunnanensis*. **Ref:** 2295.

**8241 Gaultherin B**

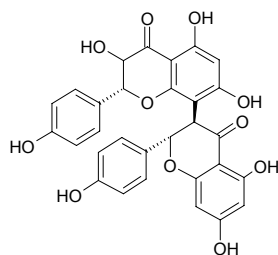
(+)-Lyoniresinol-9,9'-diacetate C₂₆H₃₂O₁₀ (504.54). White powder (acetone:water = 2:1), mp 120–121°C, [α]_D²³ = +40° (*c* = 0.05, MeOH). **Source:** DIAN BAI ZHU SHU *Gaultheria yunnanensis*. **Ref:** 2295.

**8242 Gaultheroside A**

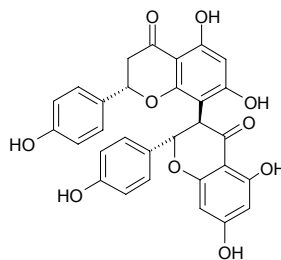
(+)-Lyoniresinol-2 α -*O*- α -*L*-arabinopyranoside (D₁) C₂₇H₃₆O₁₂ (552.58). White powder, mp 154–155°C. **Source:** BAI ZHU SHU *Gaultheria leucocarpa* var. *cumingiana* (root: content = 0.014%^[5508]); DIAN BAI ZHU SHU *Gaultheria yunnanensis* (root: content scope of 3 origins = 0.050%–0.128%, mean content = 0.085%^[5508]); FANG XIANG BAI ZHU *Gaultheria fragrantissima* (root: content = 0.062%^[5508]); SI LIE BAI ZHU *Gaultheria tetramera* (root: content = 0.022%^[5508]); WEI YE BAI ZHU *Gaultheria griffithiana* (root: content = 0.045%^[5508]). **Ref:** 666, 5508.

**8243 GB1**

[14736-58-4] C₃₀H₂₂O₁₁ (558.50). **Source:** SHAN ZHU ZI *Garcinia multiflora*. **Ref:** 6.

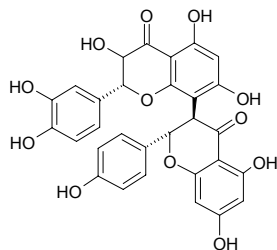
**8244 GB1a**

[19360-72-6] C₃₀H₂₂O₁₀ (542.50). **Source:** SHAN ZHU ZI *Garcinia multiflora*. **Ref:** 6.

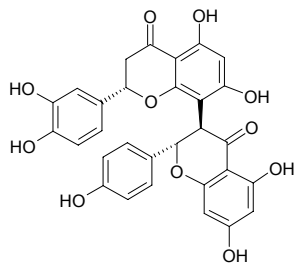


8245 GB2

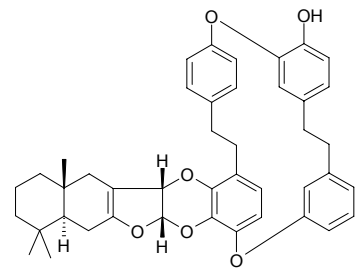
[18913-18-3] C₃₀H₂₂O₁₂ (574.50). Source: SHAN ZHU ZI *Garcinia multiflora*.
Ref: 6.

**8246 GB2a**

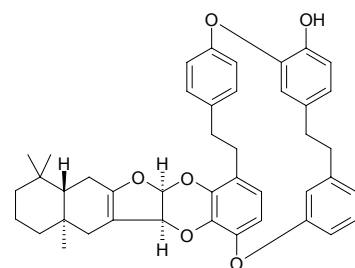
Dihydromorelloflavone [18412-96-9] C₃₀H₂₂O₁₁ (558.50). Buff powder, mp 214–216°C (dec), [α]_D = +28.2° (acetone). Pharm: Anti-HIV-1 RT (200 μg/mL, InRt = 96.0%, IC₅₀ = 170 μmol/L); antiviral (EBV); antioxidant (DPPH radical scavenger, 10 μmol/L, ScRt = 33%; control BHT, 10 μmol/L, ScRt = 43%, IC₅₀ = 19.00 μmol/L)^[4422]. Source: SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 6, 900, 1072, 4422.

**8247 GBB A**

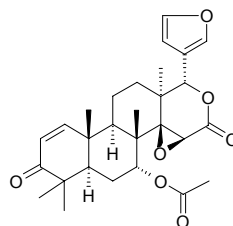
C₄₃H₄₄O₆ (656.83). Source: CANG BAI QI SHE TAI *Schistochila glaucescens*. Ref: 4549.

**8248 GBB B**

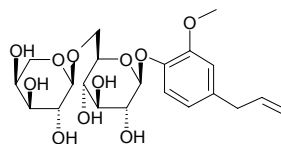
C₄₃H₄₄O₆ (656.83). Source: CANG BAI QI SHE TAI *Schistochila glaucescens*. Ref: 4549.

**8249 Gedunin**

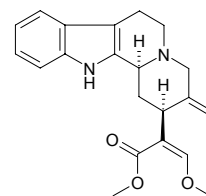
[2753-30-2] C₂₈H₃₄O₇ (482.58). mp 157°C, 218°C. Source: KU LIAN PI *Melia azedarach*. Ref: 6.

**8250 Gein**

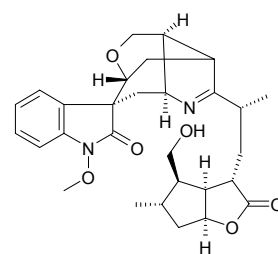
Geoside [585-90-0] C₂₁H₃₀O₁₁ (458.47). mp 146–147°C, bp 183–184°C. Source: SHUI YANG MEI *Geum japonicum*, SHUI YANG MEI GEN *Geum japonicum*. Ref: 6.

**8251 Geissoschizine methyl ether**

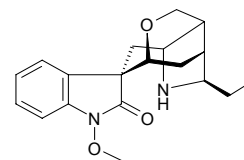
[60314-89-8] C₂₂H₂₆N₂O₃ (366.46). Pharm: Vasorelaxant (*in vitro*, isolated rat aorta)^[5341], CNS activity (agonistic activity, against the central serotonergic receptor, binding to α-adrenoceptor, 5-HT, dopamine and GABA receptors; agonist of 5-HT_{1A} receptor while blocking 5-HT_{2A} receptor)^[5341]. Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2, 5341.

**8252 Gelsamydine**

[120881-61-0] C₂₉H₃₆N₂O₆ (508.62). mp 194–196°C, [α]_D = –126.9° C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

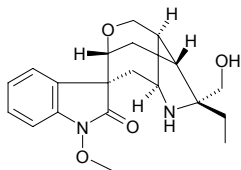
**8253 Gelsedine**

[7096-96-0] C₁₉H₂₄N₂O₃ (328.41). mp 172.5–174.0°C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

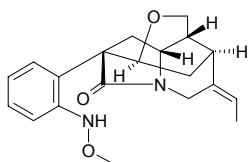


8254 Gelsegine

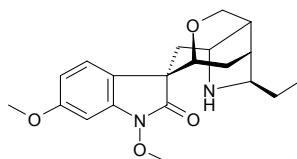
[131653-76-4] C₂₀H₂₆N₂O₄ (358.44). mp 167~168°C, [α]_D = -30°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**8255 Gelseamide**

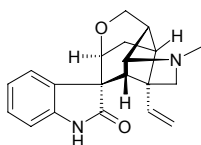
[122297-34-1] C₂₀H₂₄N₂O₃ (340.43). mp 183~184°C, [α]_D = +228.3°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**8256 Gelsemicine**

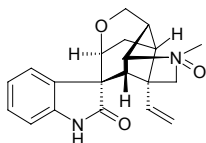
[6887-28-1] C₂₀H₂₆N₂O₄ (358.44). mp 171°C, [α]_D²⁴ = -140° (ethanol). Pharm: Paralyzes respiration (high dose); respiratory stimulant (low dose); uterine stimulant; MLD (rbt, iv) = 0.08mg/kg. Source: CHANG LV GOU WEN *Gelsemium sempervirens*. Ref: 661.

**8257 Gelsemine**

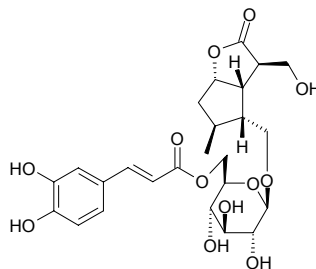
Kiuminine [509-15-9] C₂₀H₂₂N₂O₂ (322.41). mp 178°C. Pharm: Analgesic; CNS stimulant; increases blood pressure (blocks decrease of blood pressure due to injection of acetylcholine or electrostimulation of the vagus in heart); toxin. Source: CHANG LV GOU WEN *Gelsemium sempervirens*, GOU WEN *Gelsemium elegans*. Ref: 5, 6, 14, 658.

**8258 Gelsemine N-oxide**

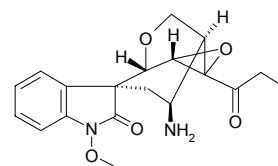
[113900-76-8] C₂₀H₂₂N₂O₃ (338.41). Amorphous, [α]_D = -16.9°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**8259 Gelsemiol 6'-trans-caffeoyl-1-glucoside**

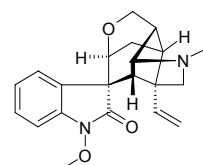
C₂₅H₃₂O₁₂ (524.53). Colorless needle crystals (MeOH), mp 122~124°C, [α]_D²⁷ = +3.4° (c = 0.23, MeOH). Pharm: Neurite outgrowth enhancer (PC12D cells, NGF-mediated neurite outgrowth, to enhance the ability of NGF, may be useful in the treatment of neurological disorders, such as Parkinson's disease (PD), Alzheimer's disease (AD), Huntington's disease (HD), amyotrophic lateral sclerosis (ALS), and hmn immunodeficiency virus associated dementia (HAD)). Source: HAI BIAN MA BIAN CAO *Verbena littoralis* (aerial parts). Ref: 4383.

**8260 Gelsemoxonine**

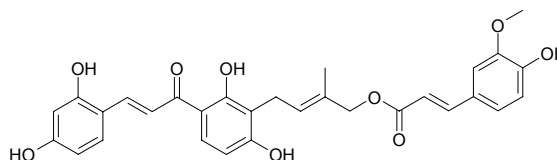
[135626-64-1] C₁₉H₂₂N₂O₅ (358.40). Powder, [α]_D = -188.5°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**8261 Gelseverine**

[38990-03-3] C₂₁H₂₄N₂O₃ (352.44). Oil, [α]_D = -4.5°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

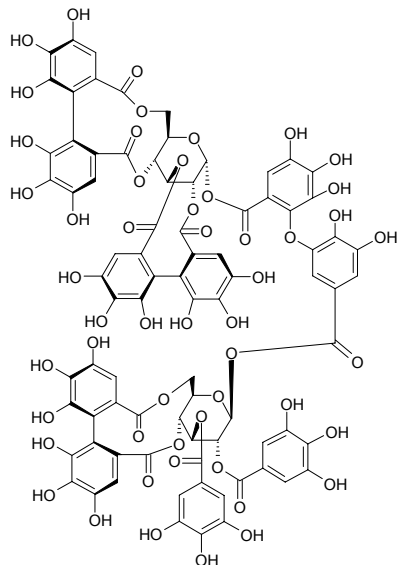
**8262 Gemichalcone C**

Isogemichalcone C; 3'-[γ -Hydroxymethyl (*E*)- γ -methylallyl]-2,4,2',4'-tetrahydroxychalcone 11'-*O*-coumarate; Anticancer Flavonoid PMV70P691-020 C₃₀H₂₈O₉ (532.55). Yellow powder (MeOH). Pharm: Cytotoxic (aromatase inhibitor, a promising lead as potential cancer chemopreventive agents)^[5038]; aromatase inhibitor (*in vitro*, IC₅₀ = 7.1 μ mol/L; control Aminoglutethimide, IC₅₀ = 6.4 μ mol/L)^[3090]. Source: GOU SHU *Broussonetia papyrifera*, GOU SHU *Broussonetia papyrifera*, SHUANG HUA JIN SI TAO *Hypericum geminiflorum*. Ref: 3090, 3493, 5038.

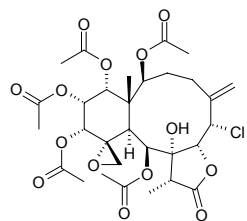


8263 Gemin A

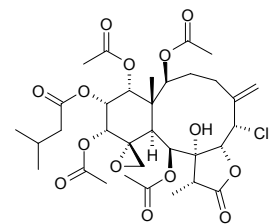
[82220-61-9] C₈₂H₅₆O₅₂ (1873.33). Pharm: Antineoplastic (S₁₈₀). Source: SHUI YANG MEI *Geum japonicum*. Ref: 658.

**8264 Gemmacolide A**

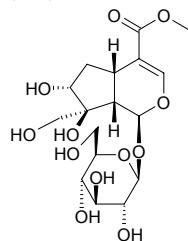
C₃₀H₃₉ClO₁₄ (659.09). Source: DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00018%). Ref: 4781.

**8265 Gemmacolide B**

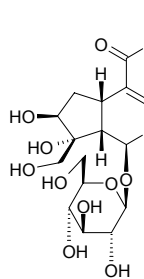
C₃₃H₄₅ClO₁₄ (701.17). Source: DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00024%). Ref: 4781.

**8266 Genameside A**

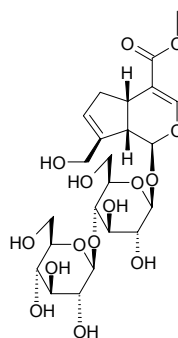
α -Hydroxy-6,7-dihydrogardenoside C₁₇H₂₆O₁₂ (422.39). Colorless syrup, $[\alpha]_D^{26} = -91.9^\circ$ ($c = 2.4$, MeOH). Source: JING NI PING *Genipa Americana* (fruit). Ref: 4524.

**8267 Genameside B**

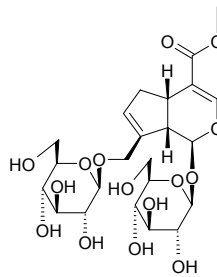
C₁₇H₂₆O₁₂ (422.39). Colorless syrup, $[\alpha]_D^{26} = -63.8^\circ$ ($c = 1.9$, MeOH). Source: JING NI PING *Genipa Americana* (fruit). Ref: 4524.

**8268 Genameside C**

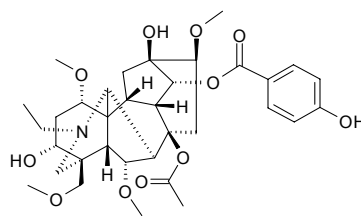
Genipin β -cellobioside C₂₃H₃₄O₁₅ (550.52). White powder, $[\alpha]_D^{26} = -0.4^\circ$ ($c = 3.3$, MeOH). Source: JING NI PING *Genipa Americana* (fruit). Ref: 4524.

**8269 Genameside D**

10-*O*- β -D-Glucopyranosyl geniposide C₂₃H₃₄O₁₅ (550.52). Colorless syrup, $[\alpha]_D^{26} = +3.3^\circ$ ($c = 6.0$, MeOH). Source: JING NI PING *Genipa Americana* (fruit). Ref: 4524.

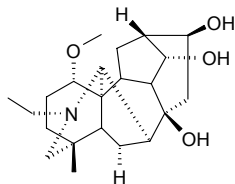
**8270 Genticuline**

20-Ethyl-8-acetoxy-14-(*p*-hydroxybenzoyloxy)-1 α -,6 α -,16 β -,18-tetramethoxyac onitane-3 α -,13 β -diol C₃₄H₄₇NO₁₁ (645.75). Amorphous powder, $[\alpha]_D^{25.5} = +31.6^\circ$ ($c = 0.00372$, CHCl₃). Source: XI BAN WU TOU *Aconitum geniculatum*. Ref: 2142.

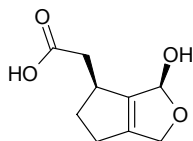


8271 Genicunine A

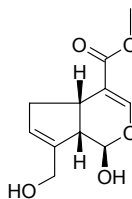
$C_{22}H_{35}NO_4$ (377.53). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*. Ref: 2191.

**8272 Genipic acid**

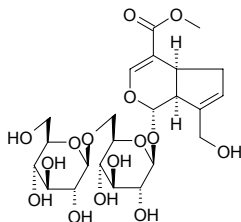
[6902-76-7] $C_9H_{12}O_4$ (184.19). $[\alpha]_D^{27} = -105^\circ$ ($c = 1$, ethanol). Pharm: Antibacterial. Source: JING NI PING *Genipa americana*. Ref: 661.

**8273 Genipin**

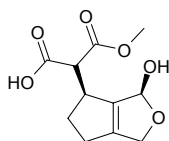
[6902-77-8] $C_{11}H_{14}O_5$ (226.23). Pharm: Anticholinergic (mus ileum); antihistamine (gpg ileum); choleric; inhibits gastric secretion (pylorus-ligated rat); analgesic (mus, ip, acetic acid-induced writhing model). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], JING NI PING *Genipa americana*, DU ZHONG *Eucommia ulmoides*. Ref: 2, 658, 5501.

**8274 Genipengentiobioside**

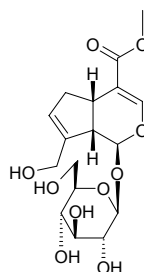
$C_{23}H_{34}O_{15}$ (550.52). mp 193~195°C (C_2H_5OH), 227~229°C. Source: JING NI PING *Genipa Americana* (fruit), SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content of 22 origins = 0.400%^[5508]). Ref: 2, 4524, 5508.

**8275 Genipinic acid**

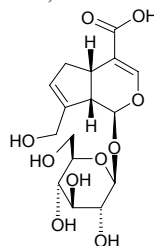
$C_{11}H_{14}O_6$ (242.23). Very unstable moisture absorptive amorphous white powder, $[\alpha]_D^{26} = -126^\circ$ ($c = 1$, ethanol). Pharm: Antibacterial. Source: JING NI PING *Genipa americana*. Ref: 661.

**8276 Geniposide**

1- β -Glucogeniposide [24512-63-8] $C_{17}H_{24}O_{10}$ (388.37). mp 163~164°C. Pharm: Analgesic (mus, ip, acetic acid-induced writhing model); laxative ($ED_{50} = 300mg/kg$); cell growth inhibitor (transformed NIH3T3 cell line, 25~100 $\mu mol/L$)^[4979]. Source: AI LAI MU *Cornus suecica*, DU ZHONG *Eucommia ulmoides* (bark of 10 years old plant: content = 0.39%^[5508]), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], JING NI PING *Genipa Americana* (fruit), SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, SHUI ZHI YE *Gardenia jasminoides* var. *grandiflora*, WU SE MEI *Lantana camara*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 3.25%^[5508]), ZHI ZI YE *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 234, 658, 4524, 4979, 5501, 5508.

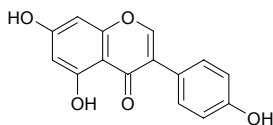
**8277 Geniposidic acid**

[27741-01-1] $C_{16}H_{22}O_{10}$ (374.35). Pharm: Laxative ($ED_{50} > 800mg/kg$). Source: DU ZHONG *Eucommia ulmoides* (bark: mean content = 0.306%^[5508]), DU ZHONG YE *Eucommia ulmoides* (leaf: mean content = 0.085%^[5508]), FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts), JING NI PING *Genipa Americana* (fruit), LONG CHUAN HUA *Ixora chinensis*, ROU CONG RONG *Cistanche deserticola*, SHUI XIAN CAO *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 0.29%^[5508]). Ref: 2, 628, 658, 3954, 4524, 5508.

**8278 Genistein**

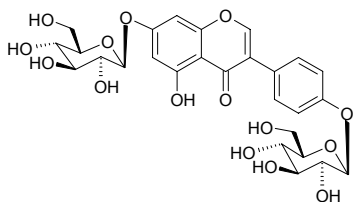
[446-72-0] $C_{15}H_{10}O_5$ (270.24). mp 301~302°C (dec). Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; cytotoxic (KB, $ED_{50} = 7.4\mu g/mL$); cytotoxic (*in vitro*, Hs740T, $ED_{50} = 4.38\mu g/mL$; Hs756T, $ED_{50} = 5.82\mu g/mL$; Hs578T, $ED_{50} = 3.5\mu g/mL$; Hs742T, $ED_{50} = 14.88\mu g/mL$; DU145, $ED_{50} = 2.39\mu g/mL$; LNCaP-FGC, $ED_{50} = 25.45\mu g/mL$)^[4630]; antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, $IC_{50} = 45.2\mu mol/L$; control Sulforaphane, $IC_{50} = 11\mu mol/L$)^[4718]; catechol-O-methyltransferase inhibitor (competitive); histidine decarboxylase inhibitor (competitive); peroxidase inhibitor (competitive); lipase inhibitor (soy, competitive); antihypercholesterolemic (rat, reduces the level of cholesterol and triglyceride in serum, hyperlipemia caused by trinitrotoluene); CyP1A inhibitor ($IC_{50} = (4.9\pm 0.5)\mu mol/L$)^[5347]; QR inhibitor (cultured mouse Hepa1c1c7 cells, CD

= (17.1±8.5)μmol/L, IC₅₀ = (23.9±5.9)μmol/L)^[5347]; DPPH scavenger (SC₅₀ > 250μmol/L, 250μmol/L scavenging rate = 2%)^[5347]; anti-inflammatory (inhibit brain liposomal peroxidation, 62.5μg/mL, optical density of DMSO control = (52.8±0.3)%; positive control Propyl gallate, 7.5μmol/mL, optical density of DMSO control = (20.6±0.2)%^[4984]; granular release inhibitor^[4984]; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), IC₅₀ = 29μmol/L, control Silybin IC₅₀ = 41μmol/L)^[4095]; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF-α and IL-6 release in RAW264.7 macrophages, IC₅₀ = 5μmol/L)^[4416]; anti-inflammatory (NO production inhibitor)^[4415]; antioxidant (DPPH scavenger, TLC detection limit = 1.0μg, IC₅₀ = 1810μg/mL; control Quercetin, TLC detection limit < 0.05μg, IC₅₀ = 7μg/mL; Gallic acid, TLC detection limit < 0.05μg, IC₅₀ = 4μg/mL; Ascorbic acid, TLC detection limit < 0.10μg, IC₅₀ = 18μg/mL)^[3785]; antibacterial (*Escherichia coli*, MIA = 100.0μg, control Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 1.00μg, Chloramphenicol, MIA = 0.0001μg; *Bacillus subtilis*, MIA = 5.00μg, Chloramphenicol, MIA = 0.0001μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.10μg, control Miconazole, MIA = 0.0001μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.5μg, IC₅₀ = 354μg/mL; control Quercetin, MIA < 0.05μg, IC₅₀ = 7μg/mL, Gallic acid, MIA < 0.05μg, IC₅₀ = 4μg/mL; Ascorbic acid, MIA < 0.10μg, IC₅₀ = 18μg/mL)^[5247]. **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.013%dw)^[4630], DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.000065%dw)^[4718], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HONG CHE ZHOU CAO *Trifolium pratense*, HUAI *Sophora japonica*, HUAI JIAO *Sophora japonica*, HUANG HUA MU *Piptanthus nepalensis*, HUANG YU SHAN DOU *Lupinus luteus*, HEI DA DOU *Glycine max*, JI KUAN CI TONG *Erythrina latissima* (stem wood), PAN YUAN YU TENG *Derris scandens* (stem), RAN LIAO MU *Genista tinctoria*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], *Prunus* sp., PAN YUAN YU TENG *Derris scandens* (stem), GUANG BU DING GONG TENG *Erycibe expansa*, *Bolusanthus speciosus* (root wood)^[3785]. **Ref:** 2, 4, 5, 658, 3785, 3810, 4095, 4416, 4415, 4630, 4718, 4984, 5038, 5247, 5347.



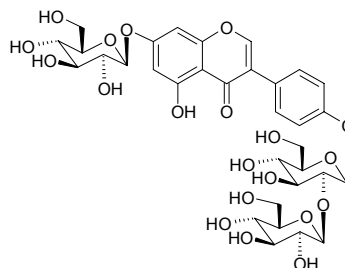
8279 Genistein 7-O-β-D-glucopyranoside-4'-O-β-D-glucopyranoside

C₂₇H₃₀O₁₅ (594.53). **Source:** HUAI *Sophora japonica* (pericarp). **Ref:** 3080.



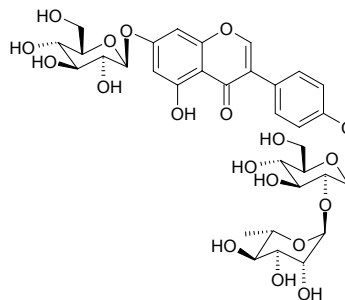
8280 Genistein 7-O-β-D-glucopyranoside-4'-O-(β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside

C₃₃H₄₀O₂₀ (756.67). White amorphous powder, mp 241–243°C, [α]_D²⁵ = -65° (c = 0.001, DMSO). **Source:** HUAI *Sophora japonica* (pericarp). **Ref:** 3080.



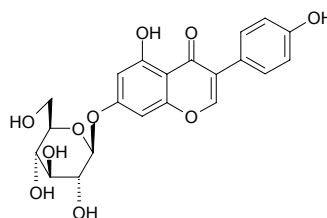
8281 Genistein 7-O-β-D-glucopyranoside-4'-O-(α-L-rhamnopyranosyl)-(1→2)-β-D-glucopyranoside

C₃₃H₄₀O₁₉ (740.68). White amorphous powder, mp 229–231°C, [α]_D²⁵ = -73° (c = 0.001, DMSO). **Source:** HUAI *Sophora japonica* (pericarp). **Ref:** 3080.



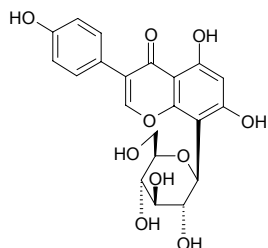
8282 Genistein 7-glucoside

Genistin [529-59-9] C₂₁H₂₀O₁₀ (432.39). mp 254–256°C. **Pharm:** Estrogenic activity; inhibits growth of wheat coleoptile *in vitro*. **Source:** AI JING DOU *Ulex nanus*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.011%dw)^[4630], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HEI DA DOU *Glycine max*, HUAI *Sophora japonica*, HUAI *Sophora japonica* (pericarp)^[3080], HUANG HUA MU *Piptanthus nepalensis*, HUANG YU SHAN DOU *Lupinus luteus*, RAN LIAO MU *Genista tinctoria*. **Ref:** 6, 658, 660, 3080, 4630.

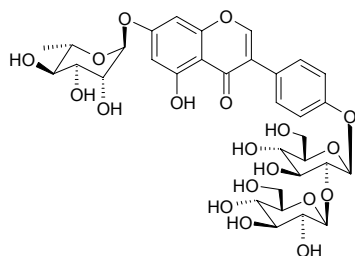


8283 Genistein 8-C-glucoside

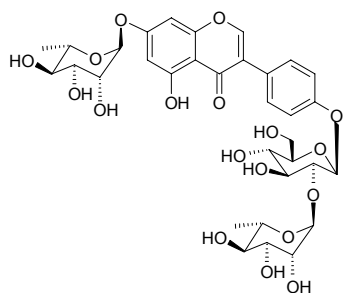
[66026-80-0] C₂₁H₂₀O₁₀ (432.39). Source: HUANG YU SHAN DOU *Lupinus luteus*, GUANG LIANG HUANG TAN *Dalbergia nitidula*. Ref: 658.

**8284 Genistein 7-O- α -L-rhamnopyranoside-4'-O-[(β -D-glucopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside]**

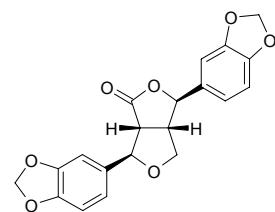
C₃₃H₄₀O₁₉ (740.68). White amorphous powder, mp 211~213°C, $[\alpha]_D^{25} = -85^\circ$ ($c = 0.001$, DMSO). Source: HUAI *Sophora japonica* (pericarp). Ref: 3080.

**8285 Genistein 7-O- α -L-rhamnopyranoside-4'-O-[(α -L-rhamnopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside]**

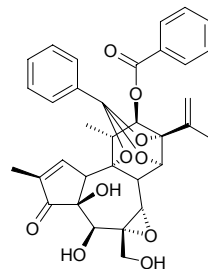
C₃₃H₄₀O₁₈ (724.68). White amorphous powder, mp 212~214°C, $[\alpha]_D^{25} = -95^\circ$ ($c = 0.001$, DMSO). Source: HUAI *Sophora japonica* (pericarp). Ref: 3080.

**8286 Genkdaphin**

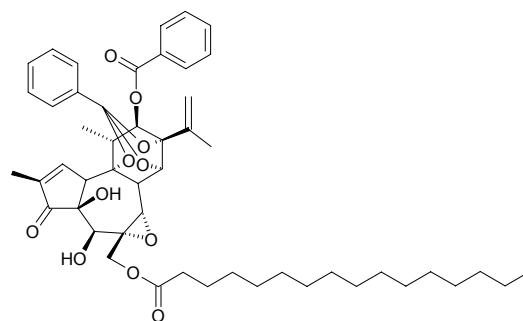
C₂₀H₁₆O₇ (368.35). Colorless acicular Crystals, mp 118.0~119.5°C, $[\alpha]_D = -64.8^\circ$ ($c = 0.5$, chloroform). Source: YUAN HUA *Daphne genkwa*. Ref: 175.

**8287 Genkwadaphnin**

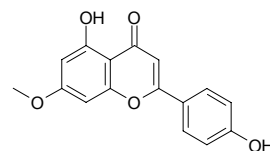
[55073-32-0] C₃₄H₃₄O₁₀ (602.64). Pharm: *Daphne oleoides* ssp. *oleoides* Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2410.

**8288 Genkwadaphnin-20-palmitate**

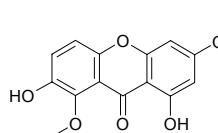
C₅₀H₆₄O₁₁ (841.06). Amorphous powder, $[\alpha]_D^{25} = +37.5^\circ$ ($c = 1.74$, CHCl₃). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2410.

**8289 Genkwanin**

4',5-Dihydroxy-7-methoxy flavone [437-64-9] C₁₆H₁₂O₅ (284.27). mp 286°C, 293°C. Pharm: Inhibits frog heart *in vitro*; inhibits intestinal and uterine movement (animal *in vitro*); antihypertensive (dog, iv); uterine stimulant (dog, iv); improves respiration (dog, iv). Source: CI CAO SU *Phlomis pungens*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, JI CHA KAI LA RUI A *Larrea divaricata*, JIAO ZHI SHU WEI CAO *Salvia glutinosa*, MI DIE XIANG *Rosmarinus officinalis*, SAN CHI LA RUI A *Larrea tridentata*, XI YE YI MU CAO *Leonurus sibiricus* (aerial parts: yield = 0.00074%)^[4744], YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts), YIN CHEN HAO *Artemisia capillaris*, YING TAO *Prunus pseudocerasus*, YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.390%^[5535]). Ref: 2, 6, 658, 4493, 4744, 5501, 5508, 5535.

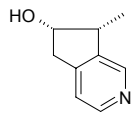
**8290 Gentiacauleine**

[15402-27-4] C₁₅H₁₂O₆ (288.26). Pharm: Vasodilator (rat aortic preparations, pre-contracted by 3 μ mol/L arterenol, pIC₅₀ = 5.00 \pm 0.03; pre-contracted by 20 μ mol/L KCl, pIC₅₀ = 4.90 \pm 0.15)^[5434]. Source: XUE LONG DAN *Gentiana nivalis*, KU HE LONG DAN *Gentiana kochiana*. Ref: 658, 5434.

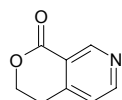


8291 Gentialutine

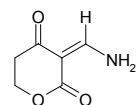
Venoterpine [17948-42-4] $C_9H_{11}NO$ (149.19). mp 129~130°C. Source: SHUI CAI *Menyanthes trifoliata*, XI SHU *Camptotheca acuminata*, XI ZANG QIN JIAO *Gentiana tibetica*. Ref: 6, 660, 1521.

**8292 Gentianadine**

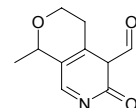
[6790-32-5] $C_8H_7NO_2$ (149.15). Pharm: Anti-inflammatory; antihypertensive; antipyretic; muscle relaxant; toxin. Source: AO LIE GE LONG DAN *Gentiana olgae*, AO SHI LONG DAN *Gentiana olivieri*, TU ER QI SI TAN LONG DAN *Gentiana turkestanorum*. Ref: 658.

**8293 Gentianaine**

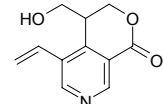
Gentiocrucine [58213-76-6] $C_6H_7NO_3$ (141.13). mp 149~150°C. Pharm: Anti-inflammatory. Source: AO LIE GE LONG DAN *Gentiana olgae*, AO SHI LONG DAN *Gentiana olivieri*, GAO JIA SUO LONG DAN *Gentiana caucasa*, TIAN SHAN QIN JIAO *Gentiana tianschanica*, TU ER QI SI TAN LONG DAN *Gentiana turkestanorum*, ZHONG YA QIN JIAO *Gentiana kaufmanniana*. Ref: 6, 658, 660.

**8294 Gentianal**

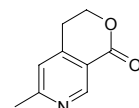
$C_{10}H_{11}NO_3$ (193.20). Source: DIAN LONG DAN *Gentiana rigescens*. Ref: 2, 660.

**8295 Gentianamine**

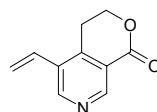
[22952-54-1] $C_{11}H_{11}NO_3$ (205.22). Pharm: Anti-inflammatory. Source: AO SHI LONG DAN *Gentiana olivieri*, TU ER QI SI TAN LONG DAN *Gentiana turkestanorum*. Ref: 658.

**8296 Gentianidine**

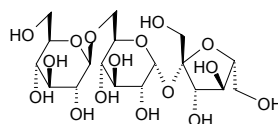
[2202-12-2] $C_9H_9NO_2$ (163.18). mp 131~132°C. Source: DIAN LONG DAN *Gentiana rigescens*, QIN JIAO *Gentiana macrophylla*, SHUI CAI *Menyanthes trifoliata*. Ref: 2, 660.

**8297 Gentianine**

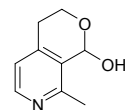
[439-89-4] $C_{10}H_9NO_2$ (175.19). mp 82~83°C; mp 79~80°C (ethanol)^[5507]. Pharm: Anti-inflammatory (arthritis induced by formaldehyde or egg white); antiulcerative; inhibits gastric secretion; bidirectional action to CNS system (mus, central sedation at low dose, central stimulation at moderate dose and paralytic death at high dose); increases level of blood sugar (rat and mus, ip, 150~200mg/kg); inhibits frog heart *in vitro*; antihypertensive (gpg, anesthetic dog and anesthetic rbt); reduces blood capillary permeability; anti-allergic (rat, protects against sensitive shock caused by egg white); Protects against shock (gpg, induced by histamine); LD₅₀ (mus, orl) = 460mg/kg, (mus, ip) = 350mg/kg, (mus, iv) = 250~300mg/kg, (mus, sc) ≥ 500mg/kg. Source: BAI HUA LONG DAN *Gentiana algida*, CU JING QIN JIAO *Gentiana crassicaulis* (dried root: content = 0.41%^[5508]), DA WU LI QIN JIAO *Gentiana dahurica* (dried root: content = 0.89%^[5508]), DIAN LONG DAN *Gentiana rigescens*, GUAN HUA QIN JIAO *Gentiana siphonantha* (dried root: content = 0.19%^[5508]), HU LU BA *Trigonella foenum-graecum*, LONG DAN *Gentiana scabra*, MA HUA JIAO *Gentiana straminea* (dried root: content = 0.52%^[5508]), QIN JIAO *Gentiana macrophylla* (dried root: content = 1.43%^[5508]), SHUI CAI *Menyanthes trifoliata*, TIAN SHAN QIN JIAO *Gentiana tianschanica*, XI ZANG QIN JIAO *Gentiana tibetica*. Ref: 2, 4, 658, 660, 5501, 5507, 5508.

**8298 Gentianose**

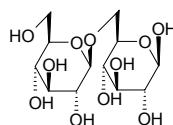
[25954-44-3] $C_{18}H_{32}O_{16}$ (504.45). mp 209°C. Source: LONG DAN *Gentiana scabra*. Ref: 2.

**8299 Gentiatibetine**

[26005-36-7] $C_9H_{11}NO_2$ (165.19). mp 161°C. Source: SHUI CAI GEN *Menyanthes trifoliata*. Ref: 6.

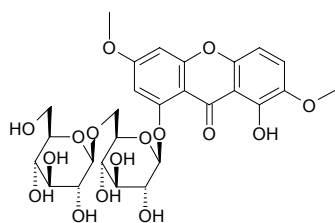
**8300 Gentiobiose**

[5996-00-9] $C_{12}H_{22}O_{11}$ (342.30). mp 190~195°C. Source: ZANG HONG HUA *Crocus sativus*. Ref: 6.

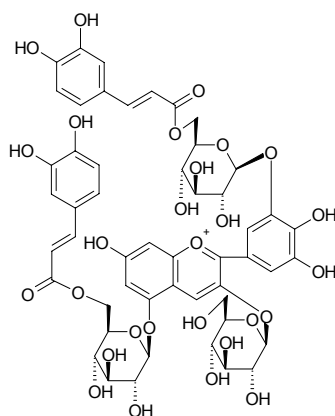


8301 1-O-Gentiobiosyl-3,7-dimethoxy-8-hydroxyxanthone

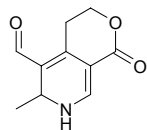
$C_{27}H_{32}O_{16}$ (612.55). Yellow Crystals, mp 184~186°C, $[\alpha]_D^{20} = -33.63^\circ$ ($c = 0.33$, DMSO). Source: XI DIAN ZHANG YA CAI *Swertia punctata*. Ref: 2155.

**8302 Gentiodelphin**

[84331-34-0] $C_{51}H_{53}O_{28}$ (1113.97). Source: MU YE LONG DAN *Gentiana makinoi*. Ref: 658.

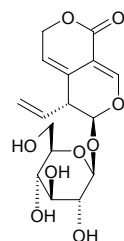
**8303 Gentioflavine**

[18058-50-9] $C_{10}H_{11}NO_3$ (193.20). mp 218~220°C (dec). Source: LONG DAN *Gentiana scabra*, TIAN SHAN QIN JIAO *Gentiana tianschanica*. Ref: 2, 660.

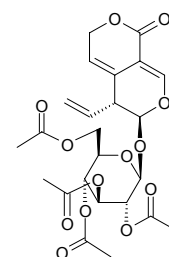
**8304 Gentiopicroside**

Gentiopicroin; Gentiopicroin [20831-76-9] $C_{16}H_{20}O_9$ (356.33). mp 122°C. Pharm: Anti-inflammatory (swollen foot model caused by carrageenan); antiprotozoal (plasmidium); gastric secretion promotor. Source: BAO JING ZHANG YA CAI *Swertia franchetiana* (whole herb: content = 0.05%)^[5508], BU SHI LONG DAN *Gentiana burseri*, CHUAN DONG ZHANG YA CAI *Swertia davidii* (whole herb: content = 0.13%)^[5508], CU CAO LONG DAN *Gentiana scabra* var. *buesgeri* (root: mean content of 6 origins = 6.73%)^[5508], CU HUA ZHANG YA CAI *Swertia fasciculata* (whole herb: content = 0.054%)^[5508], CU JING QIN JIAO *Gentiana crassicaulis* (root: mean content = 8.96%)^[5534], CU ZHUANG LONG DAN *Gentiana robusta* (root: content = 3.63%)^[5508], DA WU LI QIN JIAO *Gentiana dahurica*, DA ZI ZHANG YA CAI *Swertia macrosperma* (whole herb: content = 0.02%)^[5508], DAN HUANG ZHANG YA CAI *Swertia punicea* var. *lutescens* (whole herb: content = 0.0045%)^[5508], DIAN LONG DAN *Gentiana rigescens* (root: mean content of 11 origins = 1.75%)^[15, 5508], DONG BEI LONG DAN *Gentiana manshurica* (root: mean

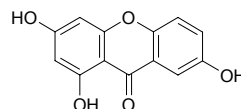
content of 11 origins = 5.01%)^[15, 5508], GUI ZHOU ZHANG YA CAI *Swertia kouitchensis* (whole herb: content = 3.61%)^[5508], HONG HUA LONG DAN *Gentiana rhodantha* (root: mean content of 2 origins = 0.06%)^[5508], HONG ZHI ZHANG YA CAI *Swertia erythrosticta* (whole herb: content = 0.5081%)^[5508], HUANG LONG DAN *Gentiana lutea* (the compound was isolated from the plant by H.Inouye et al. in 1968)^[5505], LONG DAN *Gentiana scabra* (root: content scope = 1.28%~7.62%, mean content = 4.61%)^[15, 5508], MA HUA JIAO *Gentiana straminea* (dried root: mean content = 23.3%)^[5508], MAN ZHI LONG DAN *Gentiana leptoclada* (whole herb: content = 0.01%)^[5508], MAO ZHANG YA CAI *Swertia pubescens* (whole herb: content = 0.0158%)^[5508], QIN JIAO *Gentiana macrophylla* (dried root: mean content = 15.6%)^[5508], SAN HUA LONG DAN *Gentiana triflora* (root: mean content = 3.68%)^[15, 5508], TOU HUA LONG DAN *Gentiana cephalantha* (root: content = 0.43%)^[5508], XI NAN ZHANG YA CAI *Swertia cincta* (whole herb: content = 0.06%)^[5508], XIA YE ZHANG YA CAI *Swertia angustifolia* (whole herb: content = 0.148%)^[5508], XIAN MAI ZHANG YA CAI *Swertia nervosa* (whole herb: content = 0.13%)^[5508], ZHANG YA CAI *Swertia pseudochinensis* (whole herb: content = 0.34%)^[5508], ZHE JIANG ZHANG YA CAI *Swertia hickinii* (whole herb: content = 1.84%)^[5508], ZI HONG ZHANG YA CAI *Swertia punicea* (whole herb: mean content = 0.54%)^[5508]. Ref: 2, 658, 660, 5501, 5505, 5508, 5534.

**8305 Gentiopicroside tetraacetate**

$C_{24}H_{28}O_{13}$ (524.48). Source: LONG DAN *Gentiana scabra*. Ref: 2.

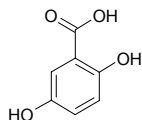
**8306 Gentioin**

1,3,7-Trihydroxyxanthone [529-49-7] $C_{13}H_8O_5$ (244.21). Pharm: Antibacterial (*Mycobacterium tuberculosis*). Source: CHAN YI TENG *Securidaca inappendiculata* (stem), DI GEN JIN SI TAO *Hypericum degenii*, HUANG LONG DAN *Gentiana lutea*. Ref: 658, 5238.

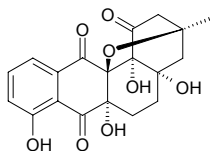


8307 Gentisic acid

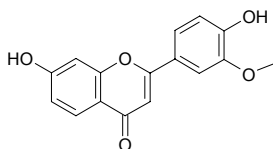
[490-79-9] C₇H₆O₄ (154.12). mp 204.5~205.0°C. **Pharm:** Antibacterial; antirheumatic and analgesic (sodium salt); antiviral. **Source:** DA CHE QIAN *Plantago major*, HUI XIANG JING YE *Foeniculum vulgare*, JU AN *Eucalyptus grandis*, JU YU *Helianthus tuberosus*, LAI FU *Raphanus sativus*, LI MENG GEN *Citrus limonia*, LI MENG YE *Citrus limonia*, PU⁽²⁾ TAO *Vitis vinifera*, SI ZI TAN *Pterocarpus santalinus*, ZAI PEI GAN JU *Citrus cultivars*, *Gentiana* sp. **Ref:** 6, 658, 660.

**8308 Gephyromycin**

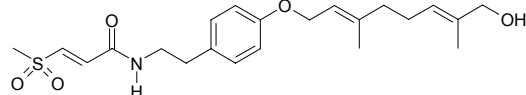
C₁₉H₁₈O₈ (374.35). White crystalline solid (MeOH), mp 212°C, [α]_D²⁰ = -51° (c = 0.05, MeOH). **Pharm:** Glutaminergic agonist (neuronal cells)^[5290]. **Source:** *Streptomyces griseus*. **Ref:** 5290.

**8309 Geraldone**

[21583-32-4] C₁₆H₁₂O₅ (284.27). **Pharm:** Nodulation signal for metabiosis of pea and *Rhizobium leguminosarum*. **Source:** DI XIA CHE ZHOU CAO *Trifolium subterraneum*. **Ref:** 658.

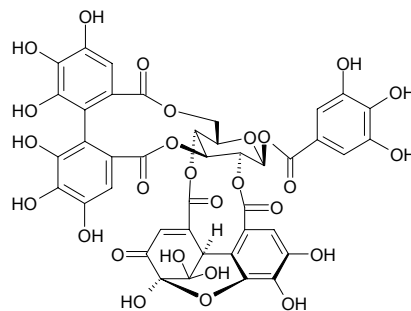
**8310 Gerambullol**

(E)-3-(Methylsulfonyl)-propenoic acid (2E,6E)-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide C₂₂H₃₁NO₅S (421.56). Colorless crystals (Et₂O), mp 128~129°C. **Source:** LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). **Ref:** 3956.

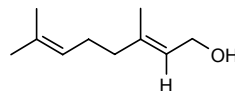
**8311 Geraniin**

[60976-49-0] C₄₁H₂₈O₂₇ (952.66). **Pharm:** Inhibits adipose peroxidation (rat, hepatic microsome); inhibits lipolysis (rat, adipose cells induced by adrenaline); promotes lipolysis (adipose cells induced by ACTH); TNF-α release inhibitor (BALB/3T3 cells, okadaic acid-stimulated, mean IC₅₀ = 43 μmol/L)^[4416].

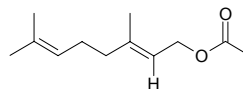
Source: AN MO LE *Phyllanthus emblica* (branch and leaf)^[3094], MAO GUO QI *Acer nikoense*, GU KE *Erythroxylum coca*, RI BEN MA SANG *Coriaria japonica*, YE WU TONG *Mallotus japonicus*, *Geranium* sp., *Euphorbia* sp., *Acer* sp., *Fuchsia* sp. **Ref:** 658, 3094, 4416.

**8312 Geraniol**

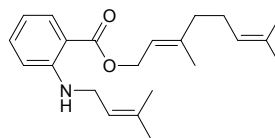
Geranyl alcohol [106-24-1] C₁₀H₁₈O (154.25). mp 230°C. **Pharm:** Antifungal (genus *Trichophyton* and *Microsporium audouini*, MIC = 0.39mg/mL); antiseptic; anthelmintic (gpg, ascaricide); treatment of chronic bronchitis; antineoplastic (leukemia); LD₅₀ (rat, orl) = 4.8g/kg, (rbt, iv) = 50mg/kg. **Source:** BAN BIAN SU *Elsholtzia ciliata*, CHAI HU *Bupleurum chinense*, DA MA SHI GE QIANG WEI *Rosa damascena*, DA SUAN *Allium sativum*, FA GUO QIANG WEI *Rosa gallica*, GAN JIANG *Zingiber officinale*, JIN YIN HUA *Lonicera japonica*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], MANG NIU ER MIAO *Erodium stephanianum*, MEI GUI HUA *Rosa rugosa*, SHENG JIANG *Zingiber officinale*, SHUI SONG *Codium fragile*, WU WEI ZI *Schisandra chinensis*, YUE GUI ZI *Laurus nobilis*, YUN XIANG CAO *Cymbopogon distans*. **Ref:** 2, 4, 11, 638, 658, 660, 1582.

**8313 Geranyl acetate**

[105-87-3] C₁₂H₂₀O₂ (196.29). bp 242~245°C/764mmHg. **Pharm:** Insect attractant. **Source:** TIAN MING JING *Carpesium abrotanoides*, HU LUO BO *Daucus carota* var. *sativa*, HU LUO BO ZI *Daucus carota* var. *sativa*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], JU YUAN *Citrus medica*, MEI GUI HUA *Rosa rugosa*, NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, SHENG JIANG *Zingiber officinale*, TIAN MING JING *Carpesium abrotanoides*, TU XIANG RU *Origanum vulgare*, YE XIANG MAO *Cymbopogon goeringii*, YIN CHEN HAO *Artemisia capillaris*. **Ref:** 6, 658, 660.

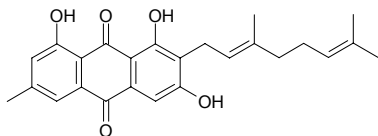
**8314 Geranyl N-Dimethylallylanthranilate**

C₂₂H₃₁NO₂ (341.50). Yellow oil. **Pharm:** Antibacterial (*Staphylococcus aureus*). **Source:** *Esenbeckia yaaxhokob* (leaf). **Ref:** 4929.

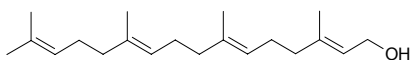


8315 2-Geranylemodin

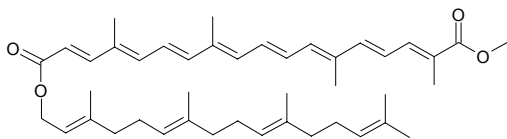
$C_{25}H_{26}O_5$ (406.48). **Pharm:** Cytotoxic (hmn small cell lung cancer NCI-H187 cell line, $IC_{50} = (3.08 \pm 0.73) \mu\text{g/mL}$, control Ellipticine, $IC_{50} = (0.35 \pm 0.15) \mu\text{g/mL}$). **Source:** QIAO MU ZHUANG HUANG NIU MU *Cratogeomys arborescens* (stem cortex). **Ref:** 5061.

**8316 Geranylgeraniol**

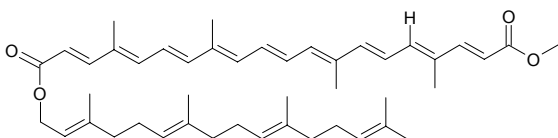
[24034-73-9] $C_{20}H_{34}O$ (290.49). **Source:** YAMA MA *Linum usitatissimum*, HONG CHUN *Toona ciliata*. **Ref:** 658.



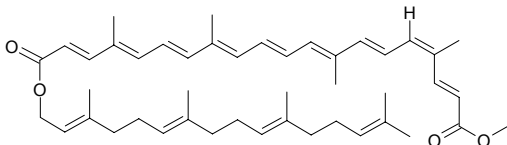
8317 6-Geranylgeranyl 8'-methyl-6,8'-diapocaroten-6,8'-dioate
[247030-33-7] $C_{43}H_{60}O_4$ (640.96). **Source:** HONG MU *Bixa orellana* (seed coat). **Ref:** 2352.



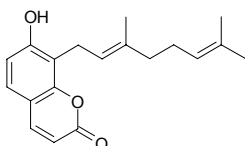
8318 6-Geranylgeranyl 6'-methyl-(9'E)-6,6'-diapocaroten-6,6'-dioate
 $C_{45}H_{62}O_4$ (666.99). **Source:** HONG MU *Bixa orellana* (seed coat). **Ref:** 2352.



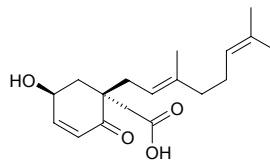
8319 6-Geranylgeranyl 6'-methyl-(9'Z)-6,6'-diapocaroten-6,6'-dioate
 $C_{45}H_{62}O_4$ (666.99). **Source:** HONG MU *Bixa orellana* (seed coat). **Ref:** 2352.

**8320 8-Geranyl-7-hydroxycoumarin**

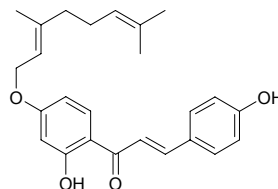
$C_{19}H_{22}O_3$ (298.39). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

**8321 2-(1'-β-Geranyl-5'β-hydroxy-2'-oxocyclohex-3'-enyl)acetic acid**

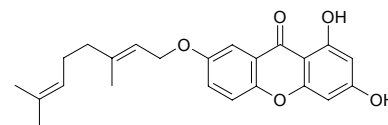
$C_{18}H_{26}O_4$ (306.41). Colorless oil, $[\alpha]_D^{22} = -2.9^\circ$ ($c = 0.1$, CHCl_3). **Pharm:** Antiplasmodial (*in vitro Plasmodium falciparum*: D6, $IC_{50} = 1462.00 \text{ ng/mL}$, control Mefloquine, $IC_{50} = 11.67 \text{ ng/mL}$; W2, $IC_{50} = 2552.94 \text{ ng/mL}$, control Mefloquine, $IC_{50} = 4.78 \text{ ng/mL}$). **Source:** *Glossocalyx brevipes* (leaf). **Ref:** 4973.

**8322 4'-O-Geranylisoliquiritigenin**

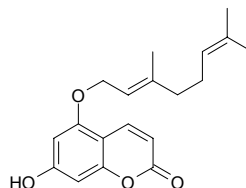
$C_{25}H_{28}O_4$ (392.50). **Pharm:** Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, $IC_{50} = 8.7 \mu\text{mol/L}$, control Chloroquine, $IC_{50} = 0.094 \mu\text{mol/L}$, control Quinine, $IC_{50} = 0.209 \mu\text{mol/L}$; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, $IC_{50} = 10.6 \mu\text{mol/L}$, control Chloroquine, $IC_{50} = 0.009 \mu\text{mol/L}$, control Quinine, $IC_{50} = 0.044 \mu\text{mol/L}$). **Source:** *Milletia usaramensis* ssp. *usaramensis*. **Ref:** 3454.

**8323 7-Geranyloxy-1,3-dihydroxyxanthone**

$C_{23}H_{24}O_5$ (380.44). Yellow needles (CH_2Cl_2 -hexane) mp 138~1408°C. **Source:** HUANG NIU MU *Cratogeomys cochinchinense*. **Ref:** 1907.

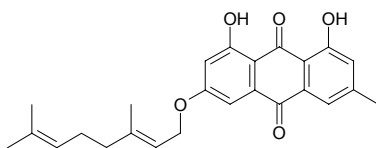
**8324 5-Geranyloxy-7-hydroxycoumarin**

$C_{19}H_{22}O_4$ (314.38). **Pharm:** EBV-EA inhibitor (TPA-induced, $IC_{50} = 331 \text{ Mol ratio/32 pmol TPA}$, control β -Carotene, $IC_{50} = 400 \text{ Mol ratio/32 pmol TPA}$). **Source:** YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). **Ref:** 5255.

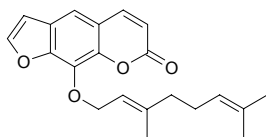


8325 3-Geranyloxy-6-methyl-1,8-dihydroxyanthraquinone

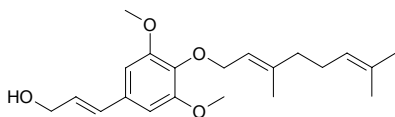
$C_{25}H_{26}O_5$ (406.48). Yellow brown crystals, mp 120~121°C. **Pharm:** Antitrypanosomal (*Trypanosoma brucei*, $IC_{50} = (14.4 \pm 8.1) \mu\text{g/mL}$, control Melarsoprol, $IC_{50} = (0.0015 \pm 0.0009) \mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90 \mu\text{g/mL}$, control Benznidazole, $IC_{50} = (0.39 \pm 0.15) \mu\text{g/mL}$)^[5008]; antileishmanial (*Leishmania donovani*, $IC_{50} = (12.0 \pm 1.0) \mu\text{g/mL}$, control Miltefosine, $IC_{50} = (0.23 \pm 0.03) \mu\text{g/mL}$; *Plasmodium falciparum*, $IC_{50} = (25.6 \pm 1.4) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.055 \pm 0.02) \mu\text{g/mL}$, control Artemisinin, $IC_{50} = (0.0011 \pm 0.0006) \mu\text{g/mL}$)^[5008]; cytotoxic (L6, $IC_{50} > 90 \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075 \mu\text{g/mL}$; brine shrimp lethality, $IC_{50} = 21.3 \mu\text{g/mL}$, control Cyclophosphamide, $IC_{50} = 16.33 \mu\text{g/mL}$)^[5008]; cytotoxic inactive (hmn small cell lung cancer NCI-H187 cell line, control Ellipticine, $IC_{50} = (0.35 \pm 0.15) \mu\text{g/mL}$)^[5061]. **Source:** DONG FANG WEI SI MU *Vismia orientalis* (stem cortex), QIAO MU ZHUANG HUANG NIU MU *Cratogeomys arborescens* (stem cortex). **Ref:** 5008, 5061.

**8326 8-Geranyloxy psoralen**

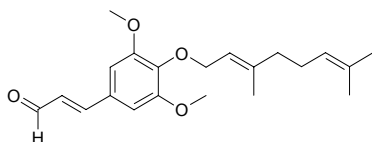
$C_{21}H_{22}O_4$ (338.41). mp 51~53°C. **Source:** YUN NAN QIANG HUO *Pleurospermum rivulorum*. **Ref:** 551.

**8327 Geranyloxy sinapyl alcohol**

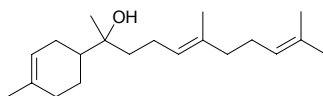
$C_{21}H_{30}O_4$ (346.47). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 34 \mu\text{mol/L}$; HL-60, $6.7 \mu\text{mol/L}$; KB, $3.0 \mu\text{mol/L}$). **Source:** LIAN YE TUO WU *Ligularia nelumbifolia* (root, yield = 0.0040%dw). **Ref:** 4632.

**8328 Geranyloxy sinapyl aldehyde**

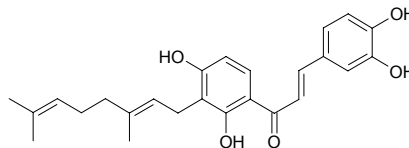
$C_{21}H_{28}O_4$ (344.45). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 22 \mu\text{mol/L}$; HL-60, $12 \mu\text{mol/L}$; KB, $2.6 \mu\text{mol/L}$). **Source:** LIAN YE TUO WU *Ligularia nelumbifolia* (root, yield = 0.0018%dw). **Ref:** 4632.

**8329 9-Geranyl-terpineol**

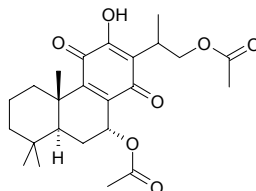
$C_{20}H_{34}O$ (290.49). Colorless oil, $[\alpha]_D^{31.2} = -51.3^\circ$ ($c = 0.046$, MeOH). **Source:** DI ER CAO *Hypericum japonicum*. **Ref:** 762.

**8330 3'-Geranyl-2',3,4,4'-tetrahydroxychalcone**

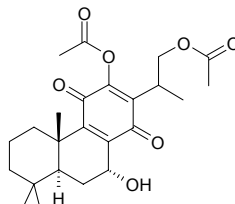
2',3,4,4'-Tetrahydroxy-3'-geranylchalcone $C_{25}H_{28}O_5$ (408.50). Yellow powder, mp 131~132°C. **Pharm:** Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, $2 \mu\text{g/spot}$, control Benlate)^[3813]; antioxidant (DPPH scavenger, TLC bioautography method, $1 \mu\text{g/spot}$, control Vitamin E, $1 \mu\text{g/spot}$)^[3813]; 5α -reductase inhibitor ($IC_{50} = 104 \mu\text{mol/L}$, control α -Linolenic acid, $IC_{50} = 116 \mu\text{mol/L}$)^[3979]. **Source:** GAO GUI BO LUO MI *Artocarpus nobilis* (leaf), MIAN BAO GUO *Artocarpus incisa* [Syn. *Artocarpus communis*] (leaf). **Ref:** 3813, 3979.

**8331 Gerardianin A**

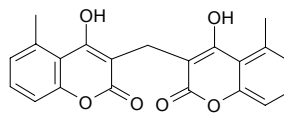
$C_{24}H_{32}O_7$ (432.52). mp 135°C. **Source:** XIA JI XIAN WEN XIANG CHA CAI *Isodon lophanthoides* var. *gerardiana*. **Ref:** 4067.

**8332 Gerardianin B**

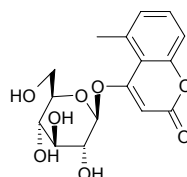
$C_{24}H_{32}O_7$ (432.52). mp 158°C. **Source:** XIA JI XIAN WEN XIANG CHA CAI *Isodon lophanthoides* var. *gerardiana*. **Ref:** 4067.

**8333 Gerberinol I**

[84153-78-6] $C_{21}H_{16}O_6$ (364.36). Acicular crystals, mp 262~264°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, $MIC \leq 125 \mu\text{g/mL}$). **Source:** DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. **Ref:** 77, 921, 1121.

**8334 Gerberinside**

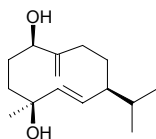
[76474-54-9] $C_{16}H_{18}O_8$ (338.32). Acicular crystals, mp 153~154°C, $[\alpha]_D^{21} = -109^\circ$ ($c = 0.127$, methanol). **Pharm:** Antibacterial (*Bacillus pyocyaneus*, infected mus, *in vivo*, survival rate = (57.8~71.0)%, $ED_{50} = 46.2 \text{mg/kg}$, *in vitro* no effects). **Source:** DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. **Ref:** 900.



8335 5E,10(14)-Germacradien-1 β ,4 β -diol

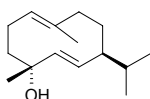
$C_{15}H_{26}O_2$ (238.37). Colorless prisms (*n*-hexane–EtOAc), mp 120–122°C.

Pharm: Antiplasmodial (*Plasmodium falciparum* strains, IC_{50} = 1.63 μ g/mL, control Chloroquine, IC_{50} = 0.0028 μ g/mL)^[2383]. **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts), *Reneilmia cincinnata* (fruits). **Ref:** 2383, 4338.

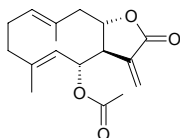
**8336 1(10)E,5E-Germacradien-4-ol**

$C_{15}H_{26}O$ (222.37). Brown oil, $[\alpha]_D^{26}$ = 118° (*c* = 0.80, $CHCl_3$). **Pharm:**

Antiplasmodial (*Plasmodium falciparum* strains, IC_{50} = 1.54 μ g/mL, control Chloroquine, IC_{50} = 0.0028 μ g/mL). **Source:** *Reneilmia cincinnata* (fruits). **Ref:** 2383.

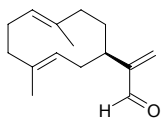
**8337 Germacranolide**

$C_{17}H_{22}O_4$ (290.36). **Source:** YUE GUI ZI *Laurus nobilis*. **Ref:** 6.

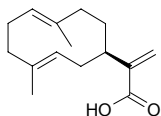
**8338 Germacra-1(10),4,11(13)-trien-12-ol**

$C_{15}H_{22}O$ (218.34). Slight-yellow oil with strong mossy odor.

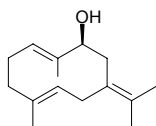
Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 5190.

**8339 Germacra-1(10),4,11(13)-trien-12-oic acid**

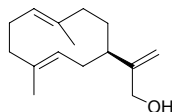
$C_{15}H_{22}O_2$ (234.34). White crystals. **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 5190.

**8340 Germacra-1(10),4,7(11)-trien-9 α -ol**

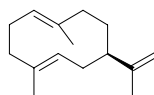
$C_{15}H_{24}O$ (220.36). bp 62–63°C/13mmHg. **Source:** XI XIN *Asarum sieboldii*. **Ref:** 6.

**8341 Germacra-1(10),4,11(13)-trien-12-ol**

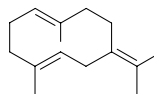
$C_{15}H_{24}O$ (220.36). Colorless or slight-yellow oil. **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 5190.

**8342 (+)-Germacrene A₁**

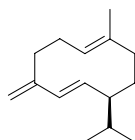
$C_{15}H_{24}$ (204.36). Colorless oil. **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 5190.

**8343 Germacrene B**

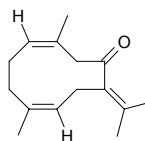
[15423-57-1] $C_{15}H_{24}$ (204.36). **Source:** CHENG ZI PI *Citrus junos*. **Ref:** 6.

**8344 Germacrene D**

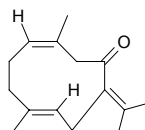
[23986-74-5] $C_{15}H_{24}$ (204.36). **Source:** CHENG ZI PI *Citrus junos*. **Ref:** 6.

**8345 1-cis,5-cis Germacrone**

$C_{15}H_{22}O$ (218.34). bp 100°C/1mmHg. **Source:** MAN SHAN HONG *Rhododendron dauricum*. **Ref:** 6.

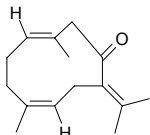
**8346 1-cis,5-trans Germacrone**

$C_{15}H_{22}O$ (218.34). bp 100°C/1mmHg. **Source:** MAN SHAN HONG *Rhododendron dauricum*. **Ref:** 6.

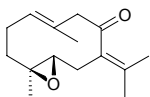


8347 1-trans,5-trans Germacrone

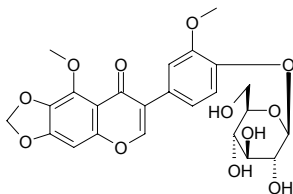
1(10)*E,4E*-Germacrone C₁₅H₂₂O (218.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (32.7±1.3)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$)^[4150]; antitussive (mus); LD₅₀ = (mus, orl) = 970mg/kg. **Source:** MAN SHAN HONG *Rhododendron dauricum* (leaf: content scope = 0.045%–0.060%)^[5501], PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150, 5501.

**8348 (+)-Germacrone 4,5-epoxide**

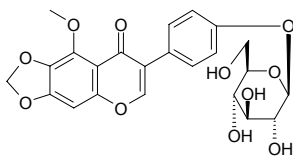
C₁₅H₂₂O₂ (234.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (29.5±4.5)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, $p < 0.01$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**8349 Germanaism A**

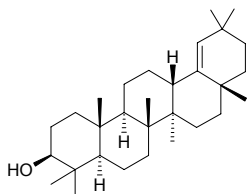
Iriskashmirianin 4'-*O*-β-*D*-glucoside C₂₄H₂₄O₁₂ (504.45). White amorphous solid, mp 187 °C, [α]_D²⁴ = +61.6° ($c = 0.83$, MeOH). **Source:** DE GUO YUAN WEI *Iris germanica* (rhizome). **Ref:** 4223.

**8350 Germanaism B**

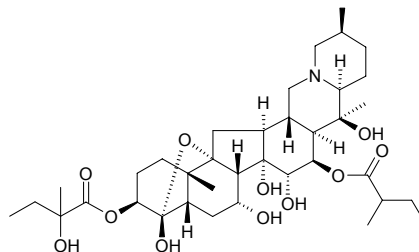
Nigrinin 4'-*O*-β-*D*-glucoside C₂₃H₂₂O₁₁ (474.43). Amorphous solid, [α]_D²⁴ = +50.2° ($c = 0.57$, MeOH). **Source:** DE GUO YUAN WEI *Iris germanica* (rhizome). **Ref:** 4223.

**8351 Germanicol**

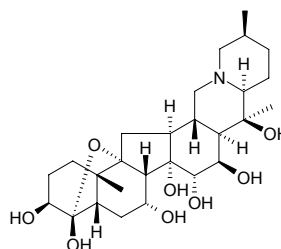
[465-02-1] C₃₀H₅₀O (426.73). mp 175–176°C (MeOH–CHCl₃), lit. (Yamada et al., 1965) 176–177°C, [α]_D²⁵ = +6.0°. **Source:** SHAN WO JU *Lactuca indica*, XIE WEI JU *Koelipinia linearis* (aerial parts). **Ref:** 6, 3912.

**8352 Germerine**

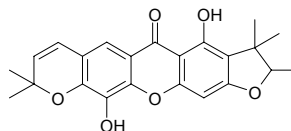
[508-67-8] C₃₇H₅₉NO₁₁ (693.88). mp 193–195°C (dec). **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

**8353 Germine**

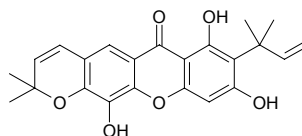
[508-65-6] C₂₃H₄₇NO₈ (509.65). **Pharm:** Causes arrhythmia and bradycardia; antihypertensive. **Source:** LV LI LU *Veratrum viride*. **Ref:** 658.

**8354 Gerontoxanthone A**

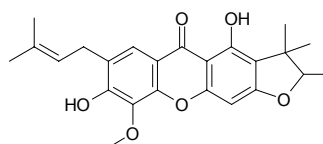
C₂₃H₂₂O₆ (394.43). **Pharm:** Cytotoxic (HSC-2 cells, CC₅₀ > 0.51mmol/L; HGF, CC₅₀ > 0.51mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00095%dw). **Ref:** 3025.

**8355 Gerontoxanthone B**

C₂₃H₂₂O₆ (394.43). **Pharm:** Cytotoxic (HSC-2 cells, CC₅₀ = 0.39mmol/L; HGF, CC₅₀ > 0.51mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00017%dw). **Ref:** 3025.

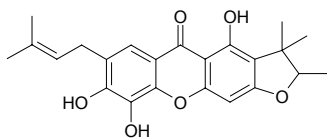
**8356 Gerontoxanthone E**

C₂₄H₂₆O₆ (410.47). [α]_D²⁰ = +2.2° ($c = 0.5$, MeOH). **Source:** ZHE TENG *Cudrania fruticosa* (root). **Ref:** 5074.

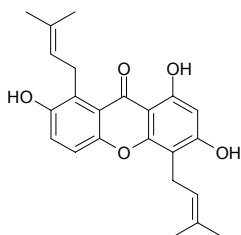


8357 Gerontoxanthone G

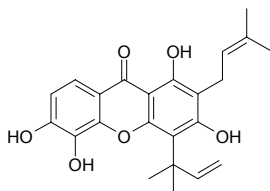
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Cytotoxic (HSC-2 cells, $CC_{50} > 0.51$ mmol/L; HGF, $CC_{50} > 0.51$ mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.0024%dw). **Ref:** 3025.

**8358 Gerontoxanthone H**

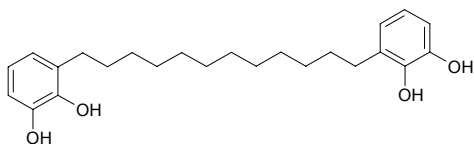
$C_{23}H_{24}O_5$ (380.44). **Pharm:** Cytotoxic (HSC-2 cells, $CC_{50} = 0.12$ mmol/L; HGF, $CC_{50} = 0.20$ mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00062%dw). **Ref:** 3025.

**8359 Gerontoxanthone I**

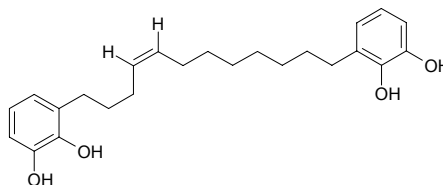
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Cytotoxic (HSC-2 cells, $CC_{50} = 0.43$ mmol/L; HGF, $CC_{50} > 0.51$ mmol/L). **Source:** GOU JI *Cudrania cochinchinensis* (root: yield = 0.00115%dw). **Ref:** 3025.

**8360 Gerronemin A**

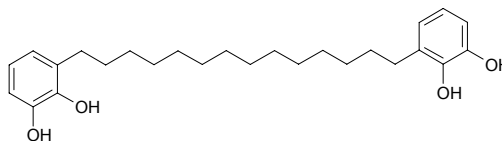
1,2-Dihydroxy-3-[12-(2,3-dihydroxyphenyl)dodecyl]benzene $C_{24}H_{34}O_4$ (386.54). Colorless oil. **Pharm:** Cytotoxic (HL-60 $IC_{50} = 2.5$ μg/mL, U937 $IC_{50} = 1\sim 2$ μg/mL, L₁₂₁₀ $IC_{50} = 2.5$ μg/mL, COS-7 $IC_{50} = 15$ μg/mL, HeLa-S3 $IC_{50} > 40$ μg/mL; inhibits cellular macromolecular biosyntheses); anti-inflammatory (blocks inducible expression of proinflammatory enzymes hCOX-2 and iNOS promoter driven reporter gene, $IC_{50} = 1\sim 5$ mg/mL). **Source:** *Gerronema* spp. **Ref:** 2022.

**8361 Gerronemin B**

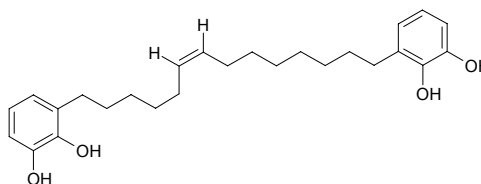
1,2-Dihydroxy-3-[12-(2,3-dihydroxyphenyl)-(Z)-dodec-4-enyl]benzene $C_{24}H_{32}O_4$ (384.52). Colorless oil. **Pharm:** Cytotoxic (HL-60 $IC_{50} = 2.5$ μg/mL, U937 $IC_{50} = 3\sim 4$ μg/mL, L₁₂₁₀ $IC_{50} = 2.5$ μg/mL, COS-7 $IC_{50} = 15$ μg/mL, HeLa-S3 $IC_{50} > 40$ μg/mL; inhibits cellular macromolecular biosyntheses); anti-inflammatory (blocks inducible expression of proinflammatory enzymes hCOX-2 and iNOS promoter driven reporter gene, $IC_{50} = 1\sim 5$ mg/mL). **Source:** *Gerronema* spp. **Ref:** 2022.

**8362 Gerronemin C**

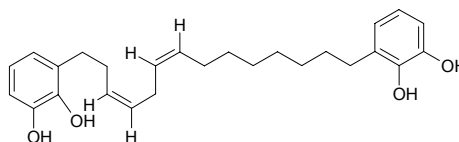
1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)tetradecyl]benzene $C_{26}H_{38}O_4$ (414.59). Colorless oil. **Source:** *Gerronema* spp. **Ref:** 2022.

**8363 Gerronemin D**

1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)-(Z)-tetradec-6-enyl]benzene $C_{26}H_{36}O_4$ (412.57). Colorless oil. **Pharm:** Cytotoxic (HL-60 $IC_{50} = 4$ μg/mL, U937 $IC_{50} = 1\sim 2$ μg/mL, L₁₂₁₀ $IC_{50} = 2.5$ μg/mL, COS-7 $IC_{50} = 15$ μg/mL, HeLa-S3 $IC_{50} > 40$ μg/mL; inhibits cellular macromolecular biosyntheses); anti-inflammatory (blocks inducible expression of proinflammatory enzymes hCOX-2 and iNOS promoter driven reporter gene, $IC_{50} = 1\sim 5$ mg/mL). **Source:** *Gerronema* spp. **Ref:** 2022.

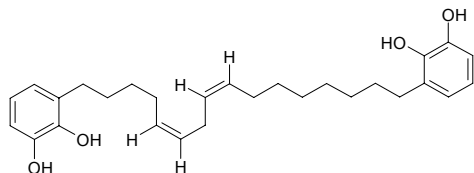
**8364 Gerronemin E**

1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)-(Z,Z)-tetradeca-3,6-dienyl]benzene $C_{26}H_{34}O_4$ (410.56). Colorless oil. **Pharm:** Cytotoxic (HL-60 $IC_{50} = 2.5$ μg/mL, U937 $IC_{50} = 2$ μg/mL, L₁₂₁₀ $IC_{50} = 2.5$ μg/mL, COS-7 $IC_{50} = 15$ μg/mL, HeLa-S3 $IC_{50} > 40$ μg/mL; inhibits cellular macromolecular biosyntheses). **Source:** *Gerronema* spp. **Ref:** 2022.

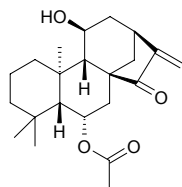


8365 Gerronemin F

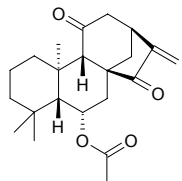
1,2-Dihydroxy-3-[16-(2,3-dihydroxyphenyl)-(Z,Z)-hexadeca-5,8-dienyl]benzene $C_{28}H_{38}O_4$ (438.61). Colorless oil. **Pharm:** Cytotoxic (HL-60 IC_{50} = 4~5 μ g/mL, U937 IC_{50} = 1.5 μ g/mL, L₁₂₁₀ IC_{50} = 2.5 μ g/mL, COS-7 IC_{50} = 15 μ g/mL, HeLa-S3 IC_{50} > 40 μ g/mL; inhibits cellular macromolecular biosyntheses); anti-inflammatory (blocks inducible expression of proinflammatory enzymes hCOX-2 and iNOS promoter driven reporter gene, IC_{50} = 1~5 mg/mL). **Source:** *Gerronema* spp. **Ref:** 2022.

**8366 Gesneroidin A**

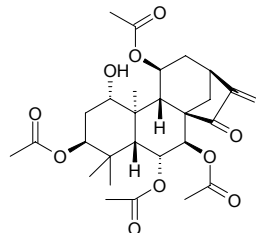
$C_{22}H_{32}O_4$ (360.50). mp 167°C, $[\alpha]_D^{25}$ = -130.9° (c = 0.84, $CHCl_3$). **Source:** JU TAI XIANG CHA CAI *Isodon gesneroides*. **Ref:** 4067.

**8367 Gesneroidin B**

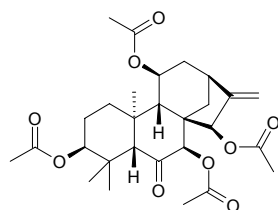
$C_{22}H_{30}O_4$ (358.48). mp 186°C, $[\alpha]_D^{25}$ = +17.9° (c = 1.12, $CHCl_3$). **Source:** JU TAI XIANG CHA CAI *Isodon gesneroides*. **Ref:** 4067.

**8368 Gesneroidin C**

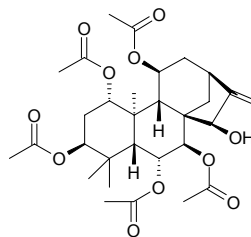
$C_{28}H_{38}O_{10}$ (534.61). mp 202°C, $[\alpha]_D^{22}$ = -69.5° (c = 0.92, $CHCl_3$). **Source:** JU TAI XIANG CHA CAI *Isodon gesneroides*. **Ref:** 4067.

**8369 Gesneroidin D**

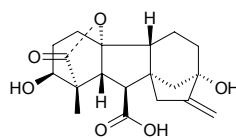
$C_{28}H_{38}O_9$ (518.61). mp 129.5~130.5°C, $[\alpha]_D^{25}$ = +8.67° (c = 0.75, $CHCl_3$). **Source:** JU TAI XIANG CHA CAI *Isodon gesneroides*. **Ref:** 4067.

**8370 Gesneroidin E**

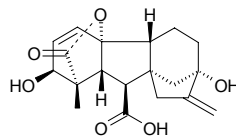
$C_{30}H_{42}O_{11}$ (578.66). mp 149~151.5°C, $[\alpha]_D^{25}$ = -4.5° (c = 0.50, $CHCl_3$). **Source:** JU TAI XIANG CHA CAI *Isodon gesneroides*. **Ref:** 4067.

**8371 Gibberellin A₁**

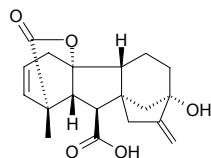
[545-97-1] $C_{19}H_{24}O_6$ (348.40). mp 255~258°C (dec). **Source:** YU JIN XIANG *Tulipa gesneriana*, YU JIN XIANG GEN *Tulipa gesneriana*. **Ref:** 6.

**8372 Gibberellin A₃**

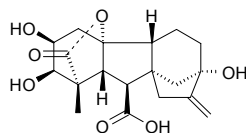
Gibberellic acid [7700605] $C_{19}H_{22}O_6$ (346.38). Crystals (ethyl acetate), mp 233~235°C (blister), $[\alpha]_D^{19}$ = +86° (c = 2.12). **Pharm:** Estrogenic activity (female rat, ovariectomy model, 35mg/kg-d for 7 days, effectively treats uterine atrophy); phytohormone. **Source:** QIAN NIU ZI *Pharbitis nil*, YUAN YE QIAN NIU ZI *Pharbitis purpurea*. **Ref:** 6, 658, 660.

**8373 Gibberellin A₅**

[561-56-8] $C_{19}H_{22}O_5$ (330.38). mp 260~261 (dec). **Source:** QIAN NIU ZI *Pharbitis nil*, YUAN YE QIAN NIU ZI *Pharbitis purpurea*, YU JIN XIANG GEN *Tulipa gesneriana*. **Ref:** 6, 660.

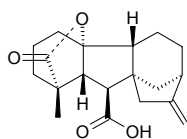
**8374 Gibberellin A₈**

[7044-72-6] $C_{19}H_{24}O_7$ (364.40). mp 210~215°C (dec). **Source:** YU JIN XIANG GEN *Tulipa gesneriana*, YUAN YE QIAN NIU ZI *Pharbitis purpurea*. **Ref:** 6, 660.

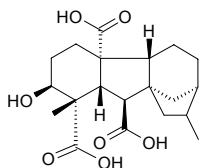


8375 Gibberellin A₉

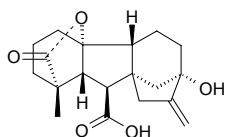
[427-77-0] C₁₉H₂₄O₄ (316.40). mp 208~211°C. Source: YU JIN XIANG GEN *Tulipa gesneriana*. Ref: 6.

**8376 Gibberellin A₁₃**

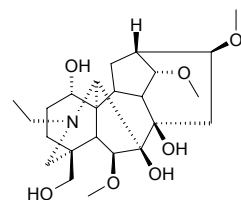
Fujic acid [2922-24-9] C₂₀H₂₈O₇ (380.44). mp 194~196°C (dec). Source: YU JIN XIANG GEN *Tulipa gesneriana*. Ref: 6.

**8377 Gibberellin A₂₀**

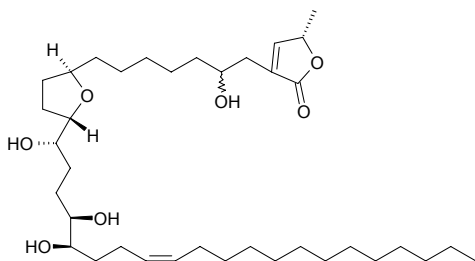
[19143-87-4] C₁₉H₂₄O₅ (332.40). Source: QIAN NIU ZI *Pharbitis nil*, WAN DOU *Pisum sativum*, YUAN YE QIAN NIU ZI *Pharbitis purpurea*. Ref: 6, 660.

**8378 Gigaconitine**

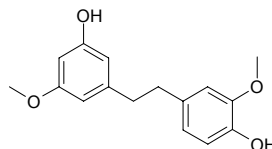
C₂₄H₃₉NO₇ (453.58). Colorless needles, mp 164~166°C (acetone). Source: JI LIN WU TOU *Aconitum kirinense*. Ref: 2515.

**8379 Gigantetronenin**

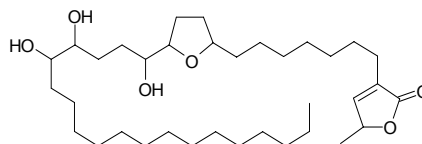
C₃₇H₆₆O₇ (622.93). Pharm: Cytotoxic (*in vitro* HepG2, EC₅₀ = 0.086 µg/mL, Hep3B, EC₅₀ = 3.85 µg/mL; control Doxorubicin, HepG2, EC₅₀ = 0.38 µg/mL, Hep3B, EC₅₀ = 0.36 µg/mL). Source: SHAN FAN LI ZHI *Annona montana* (seed). Ref: 5035.

**8380 Gigantol**

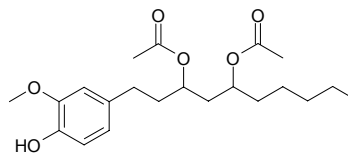
C₁₆H₁₈O₄ (274.32). Pharm: Platelet aggregation inhibitor (50 µmol/L, InRt = -10%; 100 µmol/L, InRt = 31%). Source: MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 5171.

**8381 Gigantriocin**

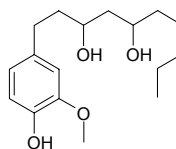
[134955-490] C₃₅H₆₄O₆ (580.90). mp 69~71°C, [α]_D²⁵ = +18° (CHCl₃) Source: JIN PING GE NA XIANG *Goniothalamus leiocarpus*, DA GE NA XIANG *Goniothalamus giganteus*. Ref: 420, 1521.

**8382 [6]-Gingediacetate**

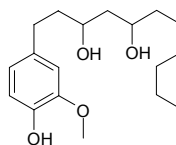
C₂₁H₃₂O₆ (380.49). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**8383 [6]-Gingediol**

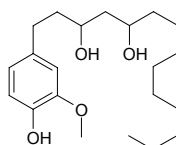
[53318-09-5] C₁₇H₂₈O₄ (296.41). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**8384 [8]-Gingediol**

[53254-76-5] C₁₉H₃₂O₄ (324.46). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

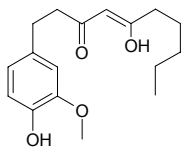
**8385 [10]-Gingediol**

[53254-77-6] C₂₁H₃₆O₄ (352.52). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

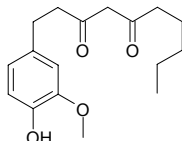


8386 [6]-Gingerdione (enol form)

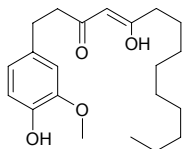
[61871-71-4] C₁₇H₂₄O₄ (292.38). **Pharm:** Prostaglandin biosynthesis inhibitor (*in vitro*). **Source:** SHENG JIANG *Zingiber officinale*, GAN JIANG *Zingiber officinale*. **Ref:** 2, 658.

**8387 [6]-Gingerdione (keto form)**

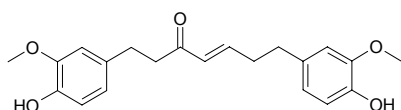
C₁₇H₂₄O₄ (292.38). **Source:** GAN JIANG *Zingiber officinale*. **Ref:** 2.

**8388 [10]-Gingerdione**

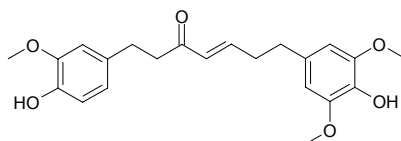
C₂₁H₃₂O₄ (348.49). **Pharm:** Anti-inflammatory (prostaglandin biosynthesis inhibitor, IC₅₀ = 4.9 μmol/L); antihepatotoxin (rat liver cells, *in vitro*, 1.0 mg/mL, liver toxicosis induced by CCl₄ GPT = (72±2)%, P<0.01); inhibits onset of senility (inhibits formation of active oxygen); prostaglandin synthetase inhibitor (IC₅₀ = 2.0 μmol/L). **Source:** GAN JIANG *Zingiber officinale*. **Ref:** 2, 1815, 1816, 1817, 1818.

**8389 Gingerenone A**

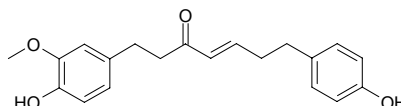
Dehydroxytetrahydrocurcumin [128700-97-0] C₂₁H₂₄O₅ (356.42). **Pharm:** Antifungal (*in vitro*). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2, 658.

**8390 Gingerenone B**

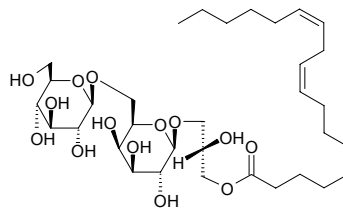
[128700-98-1] C₂₂H₂₆O₆ (386.45). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**8391 Gingerenone C**

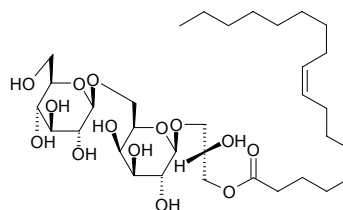
[128701-01-9] C₂₀H₂₂O₄ (326.40). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**8392 Gingerglycolipid B**

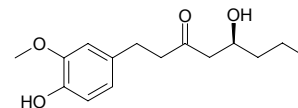
C₃₃H₅₈O₁₄ (678.82). White amorphous powder, [α]_D = +50.9° (c = 7.5, MeOH). **Pharm:** PAF antagonist. **Source:** XI LAN ROU GUI *Cinnamomum zeylanicum*. **Ref:** 2199.

**8393 Gingerglycolipid C**

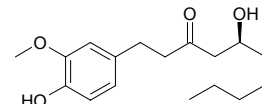
C₃₃H₆₀O₁₄ (680.84). White amorphous powder, [α]_D = +26.9° (c = 10.0, MeOH). **Pharm:** PAF antagonist. **Source:** XI LAN ROU GUI *Cinnamomum zeylanicum*. **Ref:** 2199.

**8394 [4]-Gingerol**

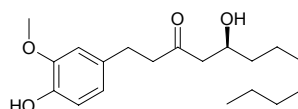
C₁₅H₂₂O₄ (266.34). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**8395 [6]-Gingerol**

C₁₇H₂₆O₄ (294.39). bp 277~279°C/6mmHg. **Pharm:** CYP3A4 inhibitor (IC₅₀ = 36.4 μmol/L, control Ketoconazole, IC₅₀ = 0.245 μmol/L)^[4669], CYP2D6 inhibitor inactive (IC₅₀ > 100 μmol/L, control Quinidine, IC₅₀ = 0.078 μmol/L)^[4669]; antiemetic; anti-seronine; cyclo-oxygenase inhibitor. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.0023% dw)^[4669], GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale* (rhizome: mean content of 4 origins = 0.700%^[5508]). **Ref:** 2, 6, 658, 4669, 5508.

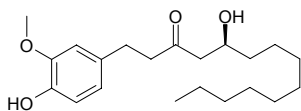
**8396 [8]-Gingerol**

C₁₉H₃₀O₄ (322.45). **Pharm:** CYP3A4 inhibitor (IC₅₀ = 81.6 μmol/L, control Ketoconazole IC₅₀ = 0.24 μmol/L)^[4449], CYP2D6 inhibitor (IC₅₀ = 68.7 μmol/L, control Quinidine IC₅₀ = 0.068 μmol/L)^[4449]. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome), GAN JIANG *Zingiber officinale*. **Ref:** 2, 4449.

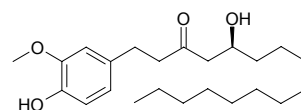


8397 [10]-Gingerol

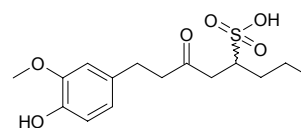
$C_{21}H_{34}O_4$ (350.50). **Pharm:** CYP3A4 inhibitor ($IC_{50} = 41.3\mu\text{mol/L}$, control Ketoconazole $IC_{50} = 0.24\mu\text{mol/L}$)^[4449]; CYP2D6 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Quinidine $IC_{50} = 0.068\mu\text{mol/L}$)^[4449]. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome), GAN JIANG *Zingiber officinale*. **Ref:** 2, 4449.

**8398 [12]-Gingerol**

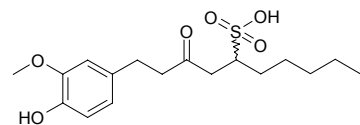
$C_{23}H_{38}O_4$ (378.56). **Source:** GAN JIANG *Zingiber officinale*. **Ref:** 2.

**8399 4-Gingesulfonic acid**

$C_{15}H_{22}O_6S$ (330.40). Pale brownish amorphous powder, mp 180–190°C (dec), $[\alpha]_D^{21} = +1.0^\circ$ ($c = 2.00$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

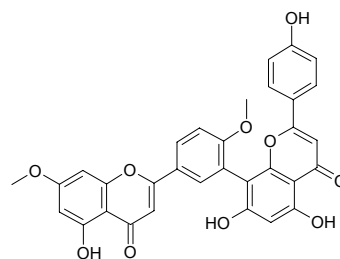
**8400 6-Gingesulfonic acid**

$C_{17}H_{26}O_6S$ (358.46). White amorphous powder, mp 177–181°C (dec), $[\alpha]_D^{21} = +0.7^\circ$ ($c = 1.00$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

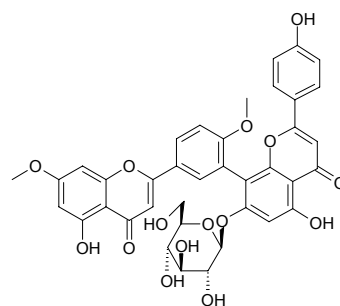
**8401 Ginkgetin**

[481-46-9] $C_{32}H_{22}O_{10}$ (566.53). Yellow powder, mp 330°C (dec). **Pharm:** Antihypercholesterolemic (reduces the level of cholesterol in serum and normalizes the ratio between phospholipid to cholesterol); treatment of angina pectoris; phospholipase A₂ inhibitor^[4415]; anti-inflammatory (reduces arthritic inflammation in rat adjuvant-induced arthritis as well as abdominal constriction caused by acetic acid, $ID_{50} = 8.9\text{mg/kg}$)^[4415]; anti-inflammatory (inhibits croton oil-induced ear skin oedema by down-regulation of COX-2)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]. **Source:** BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content = 0.653%^[5508]); the compound was first isolated from the plant by Kōichi Nakazawa in 1941^[5505], CHAO XIAN YIN YANG HUO *Epimedium koreanum*, HAN SHENG JUAN BAI *Selaginella stauntoniana* (dried whole herb: content = 0.164%^[5508]), MAO ZHI JUAN BAI *Selaginella braunii* (dried whole herb: content = 0.121%^[5508]), RI BEN CU FEI *Cephalotaxus*

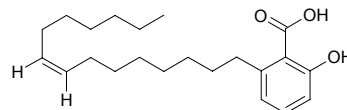
harringtonia, SAN JIAN SHAN *Cephalotaxus fortunei*, YUAN ZHI JUAN BAI *Selaginella sanguinolenta* (dried whole herb: content = 0.363%^[5508]), ZHI MU *Anemarrhena asphodeloides*, *Dacrydium* sp. **Ref:** 2, 442, 658, 4415, 5501, 5505, 5508.

**8402 Ginkgetin 7''-O-β-D-glycopyranoside**

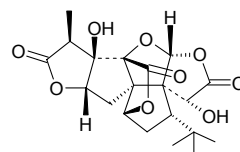
$C_{38}H_{32}O_{15}$ (728.67). Yellow amorphous powder, $[\alpha]_D^{20} = +5.5^\circ$ ($c = 0.004$, MeOH). **Source:** BAI GUO YE *Ginkgo biloba*. **Ref:** 4512.

**8403 Ginkgolic acid**

Ginkgolic acid [22910-60-7] $C_{22}H_{34}O_3$ (346.51). Yellowish oil, mp 41–43°C. **Pharm:** Antibacterial (*in vitro*, *Mycobacterium tuberculosis*); antineoplastic; antimicrobial; prostaglandin biosynthetase inhibitor; molluscicide; prolyl endopeptidase inhibitor ($K_i = 0.87\mu\text{mol/L}$, $IC_{50} = (0.86 \pm 0.04)\mu\text{mol/L}$, control Oleic acid $IC_{50} = (31.3 \pm 2.4)\mu\text{mol/L}$, Salicylic acid $IC_{50} = (1650 \pm 70)\mu\text{mol/L}$, Z-Pro-prolinol $IC_{50} = (0.00219 \pm 0.00022)\mu\text{mol/L}$)^[4098]. **Source:** BAI GUO *Ginkgo biloba* (dried ripe seed: content = 0.0222%^[5508]), BAI GUO YE *Ginkgo biloba*, DU XIAN ZI *Anacardium occidentale*. **Ref:** 4, 658, 4098, 5501, 5508.

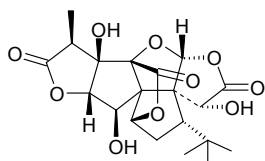
**8404 Ginkgolide A**

[15291-75-5] $C_{20}H_{24}O_9$ (408.41). Crystals (ethanol), mp 300°C, $[\alpha]_D^{24} = -53.4^\circ$ ($c = 1$, ethanol).^[5507] **Pharm:** Enhances effects of cytotoxic drugs against cancer metastasis; platelet aggregation inhibitor (rbt, due to PAF, *in vitro*, $IC_{50} = 94\mu\text{mol/L}$); insect antifeedant; PAF receptor antagonist; nerve protectant (mus, 50mg/kg), Antiasthmatic; insect antifeedant. **Source:** BAI GUO *Ginkgo biloba*, BAI GUO GEN *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content of 12 samples = 2.56%^[5508]). **Ref:** 6, 658, 900, 5507, 5508

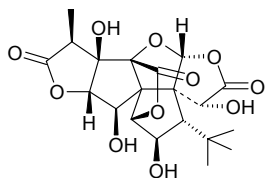


8405 Ginkgolide B

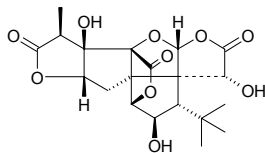
[15291-77-7] C₂₀H₂₄O₁₀ (424.41). Crystals (ethanol), mp 300°C, [α]_D²⁴ = -52.6° (c = 1, ethanol).^[5507] **Pharm:** Antibacterial (*Bacillus fusiformis*); enhances effects of cytotoxic drugs against cancer metastasis; increases fertility; platelet aggregation inhibitor (rbt, mus and pig, due to PAF, *in vitro*); insect antifeedant; PAF receptor antagonist; nerve protectant; reduces nephrotoxicity of cyclosporine; anti-hypotension (PAF-induced, ID₅₀ = (38.5±2.7)μmol/kg, control CV-3988, ID₅₀ = (2.4±1.2)μmol/kg)^[5050]; anti-inflammatory (to determine release of lysosome enzyme from polymorphonuclear (PMN) leukocytes induced by PAF of rats, 10μmol/L, InRt = 58.9%)^[3891, 5013]. **Source:** BAI GUO *Ginkgo biloba*, BAI GUO GEN *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content of 12 samples = 1.40%^[5508]). **Ref:** 6, 900, 3891, 5013, 5050, 5507, 5508.

**8406 Ginkgolide C**

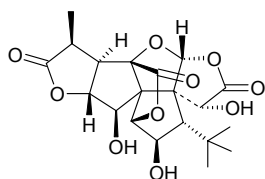
[15291-76-6] C₂₀H₂₄O₁₁ (440.41). Crystals (ethanol), mp 300°C, [α]_D²⁴ = -14.7° (c = 1, ethanol). **Pharm:** Platelet aggregation inhibitor (rbt, *in vitro*, due to PAF, IC₅₀ = 17μmol/L); PAF receptor antagonist. **Source:** BAI GUO GEN *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content of 12 samples = 1.48%^[5508]). **Ref:** 6, 900, 5508.

**8407 Ginkgolide J**

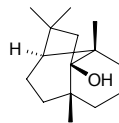
[107438-79-9] C₂₀H₂₄O₁₀ (424.41). Crystals, mp 322°C, [α]_{589nm}²⁰ = -2.5° (c = 1, dioxocyclohexane). **Pharm:** Platelet aggregation inhibitor (due to PAF); PAF receptor antagonist. **Source:** BAI GUO *Ginkgo biloba*. **Ref:** 943, 1036, 1078.

**8408 Ginkgolide M**

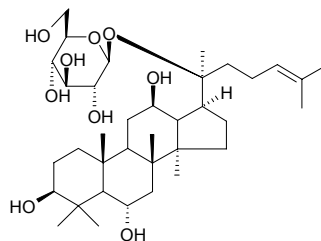
[15291-78-8] C₂₀H₂₄O₁₀ (424.41). Crystals (ethanol), mp > 280°C (dec), [α]_D = -39° (c = 1, dioxocyclohexane). **Pharm:** PAF receptor antagonist. **Source:** BAI GUO GEN *Ginkgo biloba*. **Ref:** 6, 1035, 1036, 1164.

**8409 Ginsenosol**

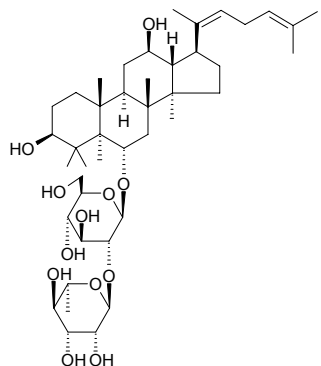
C₁₅H₂₆O (204.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5330.

**8410 Ginsenoside F₁**

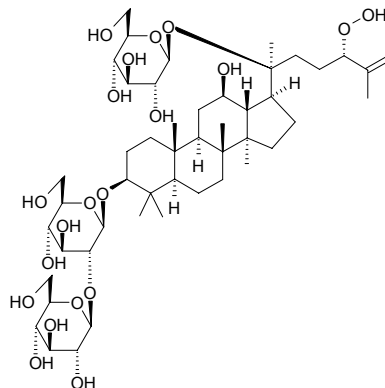
C₃₆H₆₂O₉ (638.89). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5064.

**8411 Ginsenoside F₄**

3β,6α,12β-Trihydroxy-20(22),24-dammardiene-6-O-α-L-rhamnopyranosyl(1→2)-O-β-D-glucopyranoside C₄₂H₇₀O₁₂ (767.02). mp 177~180°C, [α]_D²⁰ = +10.8° (c = 0.5, MeOH). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 8.

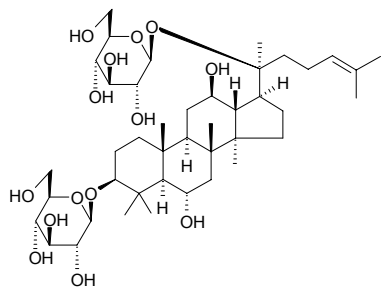
**8412 Ginsenoside I**

C₄₈H₈₂O₂₀ (979.18). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 8.

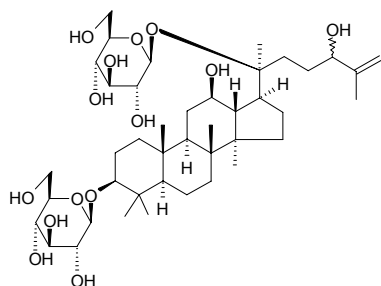


8413 Ginsenoside Ia

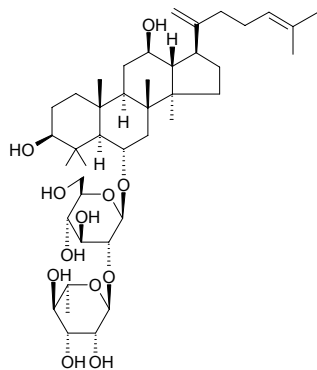
20(*S*)-Protopanaxatriol-3,20-di-*O*- β -*D*-glucopyranoside C₄₂H₇₂O₁₄ (801.03). White powder, mp 190~191°C. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 8.

**8414 Ginsenoside Ib**

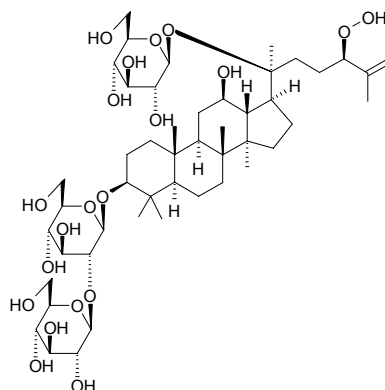
3 β ,12 β ,20(*S*),24 ζ -Tetrahydroxy-20-*O*- β -*D*-glucopyranosyl-3-*O*- β -*D*-glucopyranoside C₄₂H₇₂O₁₄ (801.23). White powder, mp 187~188°C. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 8.

**8415 Ginsenoside Ic**

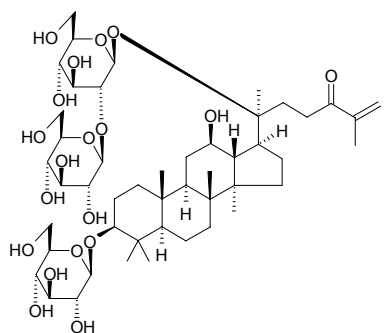
3 β ,6 α ,12 β -Trihydroxy-20(22),24-dammar-20(*H*),24-diene-6-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)-*O*- β -*D*-glucopyranoside C₄₂H₇₀O₁₂ (767.02). White powder. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 8.

**8416 Ginsenoside II**

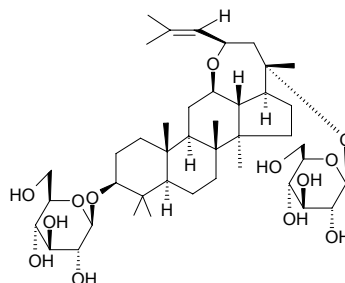
3 β -*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-20-*O*- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*)-trihydroxy-24-hydrogenperoxide-dammar-25-ene C₄₈H₈₂O₂₀ (979.18). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 8.

**8417 Ginsenoside III**

C₄₈H₈₀O₁₉ (961.16). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 8.

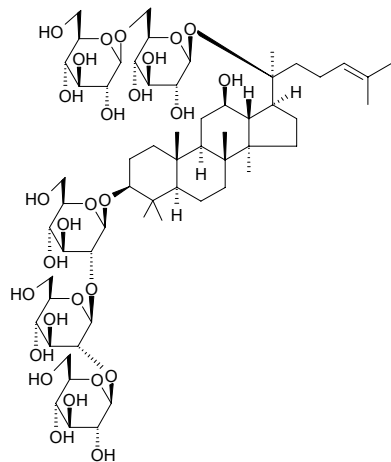
**8418 Ginsenoside La**

[123617-34-5] C₄₂H₇₀O₁₃ (783.02). White powder (methanol), mp 179~180°C, [α]_D²⁰ = -18.4° (pyridine). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 155, 1521.

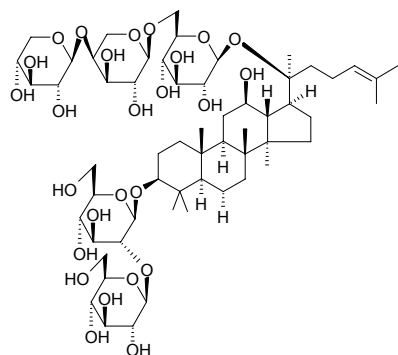


8419 Ginsenoside Ra₀

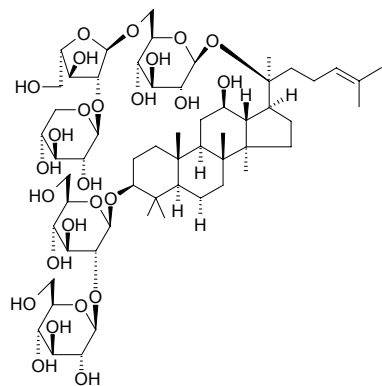
20(S)-Protopanaxadiol 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside, 20-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside [112722-00-6] C₆₀H₁₀₂O₂₈ (1271.47). White acicular crystals, mp 192~193°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*. **Ref:** 2, 87.

**8420 Ginsenoside Ra₁**

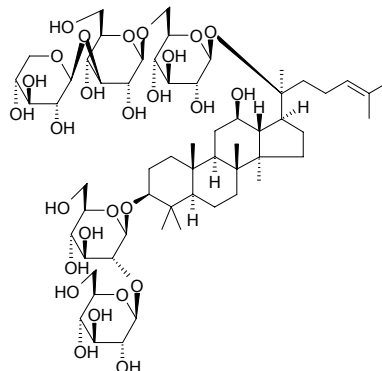
[83459-41-0] C₅₈H₉₈O₂₆ (1211.41). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 1521.

**8421 Ginsenoside Ra₂**

[83459-42-1] C₅₈H₉₈O₂₆ (1211.41). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 1521.

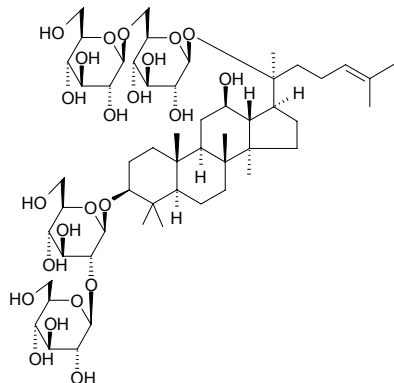
**8422 Ginsenoside Ra₃**

[90985-77-6] C₅₉H₁₀₀O₂₇ (1241.44). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 1521.

**8423 Ginsenoside Rb₁**

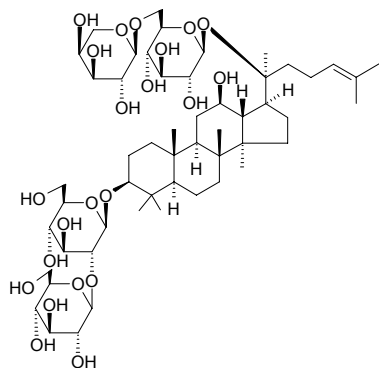
Sanchinoside E₁; Gypenoside III [41753-43-9] C₅₄H₉₂O₂₃ (1109.32). White powder (ethanol:butyl alcohol = 1:1), mp 197~198°C, [α]_D²² = +12.42° (*c* = 0.91, methanol). **Pharm:** Antiarrhythmic (rat arrhythmia caused by BaCl₂); inhibits fatigue; antiviral; inhibits replication of HSV-1; bidirectional action to blood pressure (mus, first increases and then lowers blood pressure, while heart rate slows); calcium antagonist; increases blood pressure (injecting 0.3 μ L into lateral area of rat hypothalamus, average arteriotony noticeably rising); antioxidant (rat hepatic homogenate, caused by H₂O₂, IC₅₀ = 644.8 μ g/mL); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 137 μ mol/L); antihypercholesterolemic (reduces the level of cholesterol in serum); promotes biosynthesis of DNA, protein and lipid (murine marrow cells); enhances cytotoxic effects of daunomycin and vincalucoblastine; promotes plasma secretion of corticosterone (ED₅₀ = 112 μ mol/kg); liver and nerve protectant; reduces uterine contraction (gpg, *in vitro*, caused by acetylcholine); vasodilator (dog); anti-inflammatory (modulator of cytokine network: inhibits TNF- α production in RAW264.7 and U937 cells stimulated with LPS, mean IC₅₀ = 56.5 μ mol/L and 51.3 μ mol/L, respectively)^[4416]; antinociception (i.t. injected 0.7 μ g substance P-induced pain model, EC = 50 μ g i.t.)^[5474]; neurite outgrowth enhancer (hmn neuroblastoma SK-N-SH cells, 100 μ mol/L, total length of neurites = 149.3 μ m, number of varicosity per cell = 0.93, *p* < 0.05; control, total length of neurites = 45.3 μ m, number of varicosity per cell = 0.10)^[4647]; hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 33%; 100mg/kg ip for sAST, InRt = 40%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** HUI GUO JIAO GU LAN *Gynostemma yixingense*, JIAO GU LAN *Gynostemma pentaphyllum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.88%^[5508]; content = 0.56%^[5501]), SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.24%dw)^[4702], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower: mean content of 8 origins = 1.60%^[5525]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (rhizome: content = 4.1%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 1.9%^[5508]), YU YE SAN QI *Panax japonicus* var. *bipinnatifidus*, ZHU JIE SAN QI *Panax*

pseudo-ginseng var. *japonicus* (rhizome: content = 1.7%^[5508], yield = 0.025%^[4647]). Ref: 2, 4, 87, 135, 329, 613, 900, 4139, 4416, 4647, 4702, 5474, 5501, 5508, 5525.



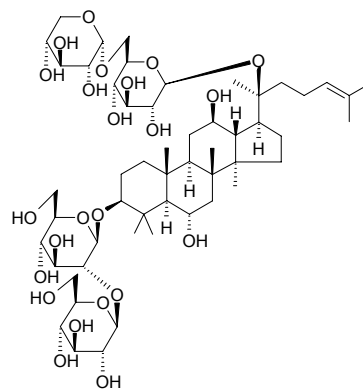
8424 Ginsenoside Rb₂

[11021-13-9] C₅₃H₉₀O₂₂ (1079.30). White powder (ethanol:butyl alcohol = 1:5), mp 200–203°C, [α]_D²² = +3.05° (c = 0.98, methanol), [α]_D²⁰ = +12.3 (c = 0.92, MeOH). **Pharm:** Antiarrhythmic (rat arrhythmia caused by BaCl₂); antineoplastic (inhibits murine melanoma lung metastasis and prevents new vessel formation); inhibits fatigue; antiviral; inhibits replication of HSV-1; bidirectional action to blood pressure (murine, first increases and then lowers blood pressure, while heart rate slows); calcium antagonist; hemolytic; inhibits kidney damage in diabetic rat; platelet aggregation inhibitor; inhibits content of free radicals in myocardial cells (induced by xanthinoxidase); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 199 μmol/L); antihypercholesterolemic (reduces the level of cholesterol in serum); promotes biosynthesis of DNA, protein and lipid (murine marrow cells); promotes RNA polymerase activity (promotes synthesis of rRNA and mRNA in diabetic rat); vasodilator (dog); anti-inflammatory (modulator of cytokine network: inhibits TNF-α production in RAW264.7 and U937 cells stimulated with LPS, mean IC₅₀ = 27.5 μmol/L and 26.8 μmol/L, respectively)^[4416]; antinociception (i.t. injected 0.7 μg substance P-induced pain model, EC = 50 μg *i.t.*)^[5474]. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.57%^[5508]), SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.29%^[4702]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (rhizome: content = 0.17%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.10%^[5508]). Ref: 4, 87, 451, 900, 4416, 4702, 5474, 5508.



8425 Ginsenoside Rb₃

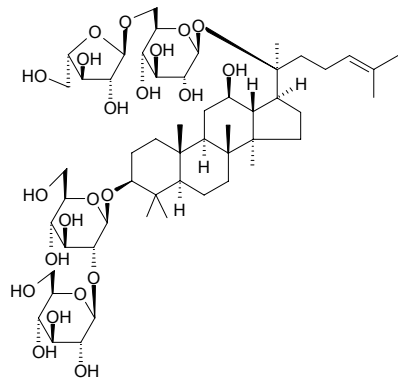
[68406-26-8] C₅₃H₉₀O₂₃ (1095.29). White powder, mp 193–195°C, [α]_D²⁰ = +19.4° (c = 1, MeOH). **Pharm:** Neurite outgrowth enhancer (hmn neuroblastoma SK-N-SH cells, 100 μmol/L, total length of neurites = 131.4 μm, number of varicosity per cell = 0.80, *p* < 0.05; control, total length of neurites = 45.3 μm, number of varicosity per cell = 0.10)^[4647]; hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 50 mg/kg ip for sALT, InRt = 77%, 100 mg/kg ip for sALT, InRt = 91%; 50 mg/kg ip for sAST, InRt = 72%; 100 mg/kg ip for sAST, InRt = 80%; control Hydrocortisone, 20 mg/kg ip for sALT, InRt = 99%; 20 mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.007%^[4757]), REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 3.15%^[4702]), XI YANG SHEN *Panax quinquefolium*, YU YE SAN QI *Panax japonicus* var. *bipinnatifidus*, ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.025%^[4647]). Ref: 135, 451, 4647, 4702, 4757.



8426 Ginsenoside Rc

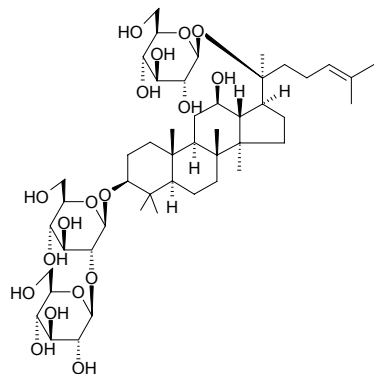
[11021-14-0] C₅₃H₉₀O₂₂ (1079.30). White powder (ethanol:butyl alcohol = 1:5), mp 199–201°C, [α]_D²⁰ = +1.83° (c = 0.65, methanol). **Pharm:** Antiarrhythmic (rat arrhythmia caused by BaCl₂); inhibits fatigue; bidirectional action to blood pressure (murine, first increases and then lowers blood pressure, while heart rate slows); calcium antagonist; antioxidant of rat hepatic homogenate (caused by H₂O₂, IC₅₀ = (265.5 ± 48.1) μg/mL, by FeSO₄, IC₅₀ = (129.3 ± 5.6) μg/mL, by H₂O₂ + FeSO₄, IC₅₀ = (536.8 ± 142.3) μg/mL); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 264 μmol/L); promotes biosynthesis of DNA, protein and lipid (murine marrow cells); promotes plasma secretion of corticosterone (ED₅₀ = 44 μmol/kg); antihepatotoxin (GalN-caused liver damage); reduces uterine contraction (gpg, *in vitro*, caused by acetylcholine); vasodilator (dog); hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 50 mg/kg ip for sALT, InRt = 77%, 100 mg/kg ip for sALT, InRt = 89%; 50 mg/kg ip for sAST, InRt = 80%; 100 mg/kg ip for sAST, InRt = 87%; control Hydrocortisone, 20 mg/kg ip for sALT, InRt = 99%; 20 mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.47%^[5508]), SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 1.79%^[4702]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.13%^[5508]), ZHU JIE SAN QI

Panax pseudo-ginseng var. *japonicus* (rhizome: content = 0.23%^[5508], yield = 0.0011%^[4647]). Ref: 4, 900, 4647, 4702, 5508.



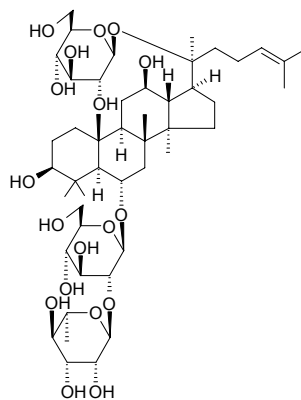
8427 Ginsenoside Rd

Gypenoside VIII [52705-93-8] C₄₈H₈₂O₁₈ (947.18). White powder (ethanol:butyl alcohol = 1:1), mp 206–209°C, [α]_D²² = +19.38° (c = 1.03, methanol). **Pharm:** Antiarrhythmic (rat arrhythmia caused by BaCl₂); antiviral; inhibits replication of HSV-1; antioxidant (rat hepatic homogenate, caused by H₂O₂, IC₅₀ = (12.0±0.8)μg/mL, by FeSO₄, IC₅₀ = (457.5±15.4)μg/mL); 11-β-Hydroxysteroid dehydrogenase inhibitor; cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 84μmol/L); promotes cytotoxic effects of daunomycin and vincalurecoblantine; promotes plasma secretion of corticosterone (ED₅₀ = 112μmol/kg); regulates kidney function and inhibits reproduction of glomerulus cells; vasodilator; antinociception (i.t. injected 0.7μg substance P-induced pain model, EC = 50μg i.t.)^[5474]; hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 97%; 100mg/kg ip for sAST, InRt = 93%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.009%^[4757]), QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.16%^[5508]), SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.010%^[4702]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (rhizome: content = 1.3%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.78%^[5508]), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0018%^[4647]). Ref: 4, 87, 451, 900, 4647, 4702, 4757, 5474, 5508.



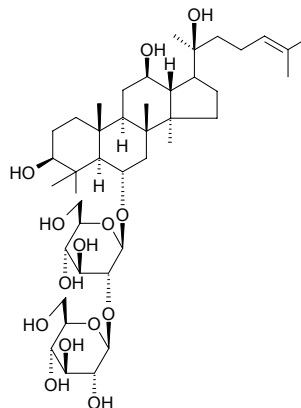
8428 Ginsenoside Re

Chikusetsusaponin IVc; Ginsenoside B₂ [52286-59-6] C₄₈H₈₂O₁₈ (947.18). Colorless acicular Crystals, mp 201–203°C, [α]_D²⁰ = -1.5° (c = 0.52, MeOH). **Pharm:** Analgesic (mus, 10mg/kg); inhibits fatigue; bidirectional action to blood pressure (murine, first increases and then lowers blood pressure, while heart rate slows); reduces uterine contraction (gpg *in vitro*, caused by acetylcholine); hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 92%; 100mg/kg ip for sAST, InRt = 90%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.30%^[5501], content = 0.57%^[5508]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (rhizome: content = 0.50%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 2.0%^[5508]), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (rhizome: content = 0.04%^[5508], yield = 0.011%^[4610]). Ref: 4, 87, 451, 613, 658, 1521, 4610, 4702, 5501, 5508.



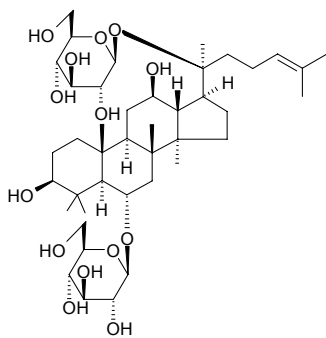
8429 Ginsenoside Rf

[52286-58-5] C₄₂H₇₂O₁₄ (801.03). White powder, mp 197–198°C. **Pharm:** Antineoplastic; inhibits fatigue; bidirectional action to blood pressure (murine, first increases and then lowers blood pressure, while heart rate slows); reduces uterine contraction (gpg, *in vitro*, caused by acetylcholine); antinociception (i.t. injected 0.7μg substance P-induced pain model, EC = 50μg i.t.)^[5474]. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.15%^[5508]), XI YANG SHEN *Panax quinquefolium*. Ref: 4, 87, 658, 5474, 5508.

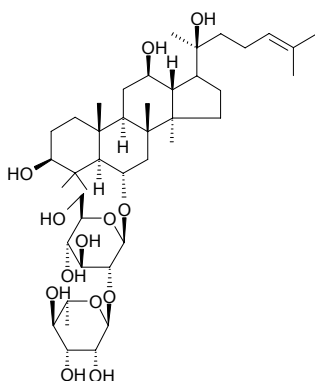


8430 Ginsenoside Rg₁

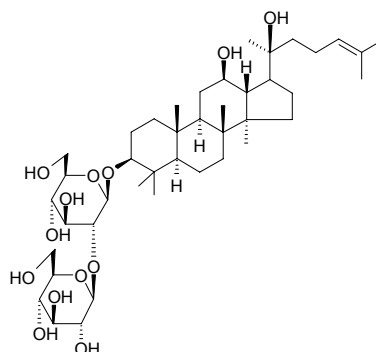
Ginsenoside A₂ [22427-39-0] C₄₂H₇₂O₁₄ (801.03). mp 194.0~196.5°C. **Pharm:** Antineoplastic; treatment of cancer of stomach; inhibits fatigue; bidirectional action to blood pressure (murine, first increases and then lowers blood pressure, while heart rate slows); promotes biosynthesis of DNA, protein and lipid (murine marrow cells); reduces uterine contraction (gpg, *in vitro*, caused by acetylcholine); vasodilator (animal model); hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 30%; 100mg/kg ip for sAST, InRt = 12%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]; LD₅₀ (mus, orl) ≥ 5000mg/kg, (mus, ip) = 1600mg/kg, (mus, iv) = 396mg/kg. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.46%^[5501], content = 0.38%^[5508]), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (rhizome: content = 4.7%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.20%^[5508]), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (rhizome: content = 0.09%^[5508], yield = 0.011%dw^[4610]). **Ref:** 4, 87, 658, 4139, 4610, 4702, 5501, 5508.

**8431 Ginsenoside Rg₂**

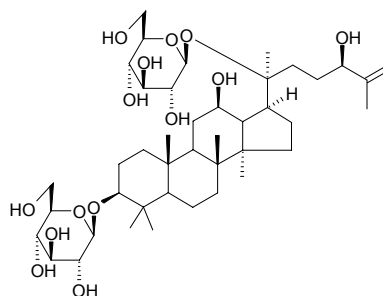
Ginsenoside C C₄₂H₇₂O₁₃ (785.03). Crystals, mp 187~189°C, [α]_D³⁰ = +5.5° (c = 1, MeOH). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*. **Ref:** 1521.

**8432 20(S)-Ginsenoside Rg₃**

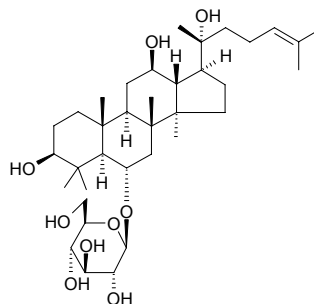
[14197-60-5] C₄₂H₇₂O₁₃ (785.03). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2.

**8433 Ginsenoside Rg₇**

3-O-β-D-Glucopyranosyl 3β,12β,20(S),24(R)-tetrahydroxy-dammar-25-ene 20-O-β-D-glucopyranoside C₄₂H₇₂O₁₄ (801.03). White powder. **Source:** REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3517.

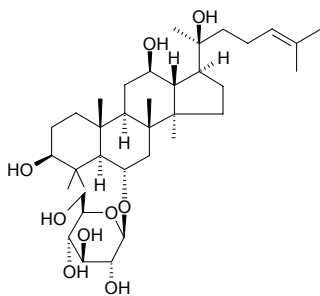
**8434 20(R)-Ginsenoside Rh₁**

C₃₆H₆₂O₉ (638.89). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2.

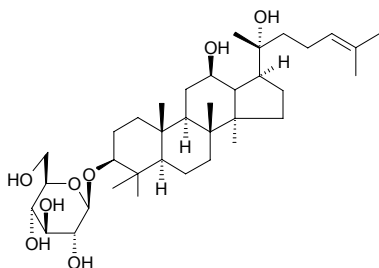


8435 20(S)-Ginsenoside Rh₁

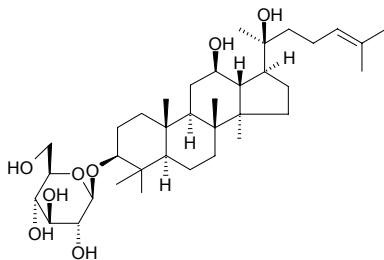
Ginsenoside Rh₁ [63223-86-9] C₃₆H₆₂O₉ (638.89). **Pharm:** Hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 93%; 100mg/kg ip for sAST, InRt = 90%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium*. **Ref:** 2, 28, 87, 4702.

**8436 20(R)-Ginsenoside-Rh₂**

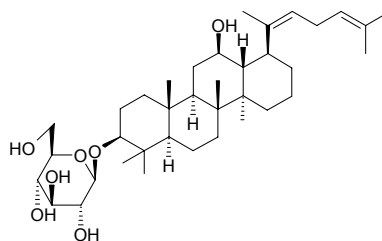
[112246-15-8] C₃₆H₆₂O₈ (622.89). **Pharm:** Antineoplastic (hmn, leukemia HL-60, 2μg/mL; mus myelocytic leukemia M1, inducing cell differentiation activity, 50μmol/L, growth rate = 70%); cytotoxic (*in vitro*, enhances cytotoxicity for drug-resistant strain P₃₈₈, IC₅₀ = 75.6μmol/L, MT-4, CC₅₀ (concentration of half cytotoxicity) = 475μmol/L). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 1615, 1616, 1617, 1618.

**8437 20(S)-Ginsenoside Rh₂**

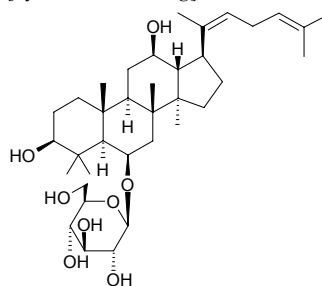
[78214-33-2] C₃₆H₆₂O₈ (622.89). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2.

**8438 Ginsenoside Rh₃**

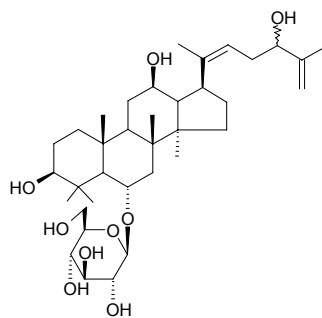
3β,12β-Dihydroxy-dammar-20(22),24-diene-3-O-β-D-glucopyranoside [105558-26-7] C₃₇H₆₂O₇ (618.90). White powder, mp 255~257°C, [α]_D²⁷ = +7° (c = 0.778, methanol). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 84.

**8439 Ginsenoside Rh₄**

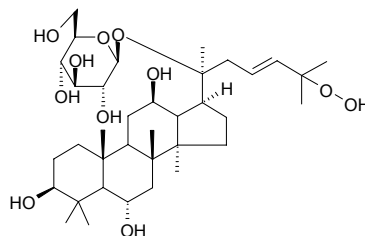
[174721-08-5] C₃₆H₆₀O₈ (620.87). Colorless thin crystals (methanol-water), mp 160~161°C, [α]_D = +28.2° (c = 1, methanol). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 25μmol/L, L₁₂₁₀, ED₅₀ = 23μmol/L). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 1149.

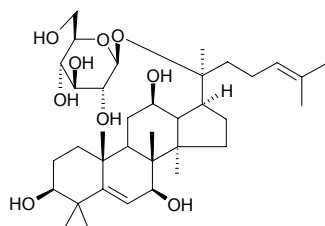
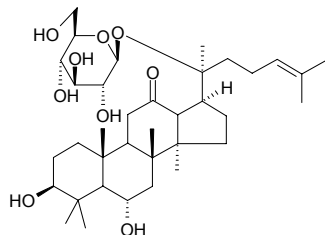
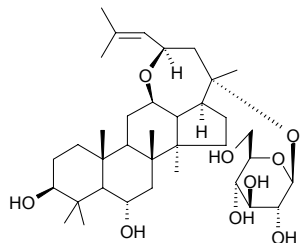
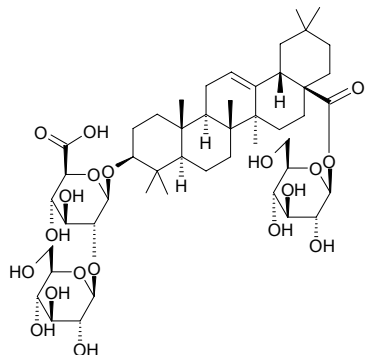
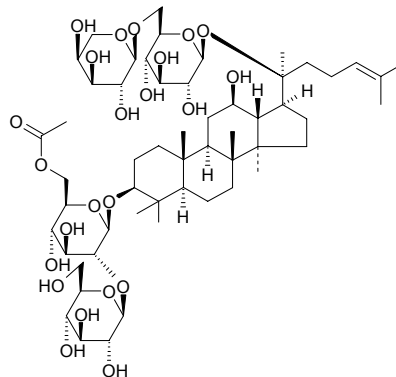
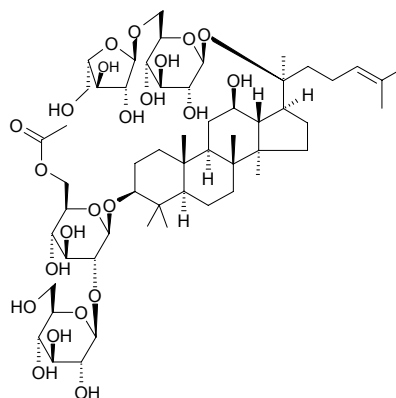
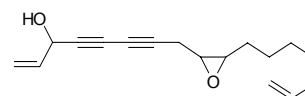
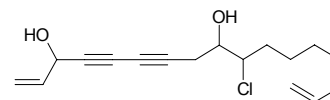
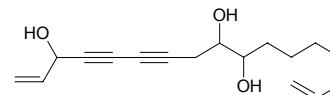
**8440 Ginsenoside Rh₅**

3β,6α,12β,24ξ-Tetrahydroxy-dammar-20(22),25-diene 6-O-β-D-glucopyranoside C₃₆H₆₀O₉ (636.87). White powder, [α]_D²¹ = +20.8° (c = 0.1, MeOH). **Source:** REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3517.

**8441 Ginsenoside Rh₆**

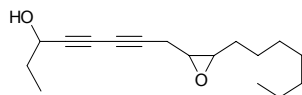
3β,6α,12β,20(S)-Tetrahydroxy-25-hydroperoxy-dammar-23-ene 20-O-β-D-glucopyranoside C₃₆H₆₂O₁₁ (670.89). White powder, [α]_D²¹ = +21.8° (c = 0.1, MeOH). **Source:** REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3517.



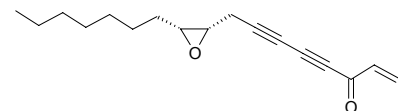
8442 Ginsenoside Rh₇3 β ,7 β ,12 β ,20(S)-Tetrahydroxy-dammar-5,24-diene20-O- β -D-glucopyranoside C₃₆H₆₀O₉ (636.87). White powder, $[\alpha]_D^{21} = +30.1^\circ$ ($c = 0.1$, MeOH). [Source](#): REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 3517.**8443 Ginsenoside Rh₈**3 β ,6 α ,20(S)-Trihydroxy-dammar-24-ene-12-one 20-O- β -D-glucopyranosideC₃₆H₆₀O₉ (636.87). White powder. [Source](#): REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 3517.**8444 Ginsenoside Rh₉**3 β ,6 α ,20(S)-Trihydroxy-12 β ,23-epoxy-dammar-24-ene20-O- β -D-glucopyranoside C₃₆H₆₀O₉ (636.87). White powder. [Source](#): REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 3517.**8445 Ginsenoside Ro**[34367-04-9] C₄₈H₇₆O₁₉ (957.13). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 1.8%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.65%^[5508]), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (rhizome: content = 2.7%^[5508]). [Ref.](#): 2, 5508.**8446 Ginsenoside Rs₁**[87733-67-3A] C₅₅H₉₂O₂₃ (1121.33). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 2.**8447 Ginsenoside Rs₂**[87733-66-2] C₅₅H₉₂O₂₃ (1121.33). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 2, 1521.**8448 Ginsenoyne A**[139163-34-1] C₁₇H₂₂O₂ (258.36). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 2.**8449 Ginsenoyne B**[139035-29-3] C₁₇H₂₃ClO₂ (294.82). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 2.**8450 Ginsenoyne C**[139163-35-2] C₁₇H₂₄O₃ (276.38). [Source](#): REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. [Ref.](#): 2.

8451 Ginsenoyne D

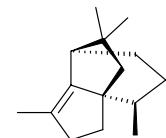
$C_{17}H_{26}O_2$ (262.40). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**8452 Ginsenoyne E**

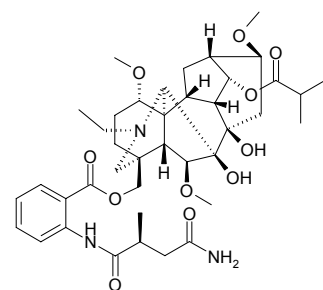
3-Oxopanaxydol; PQ-3 [126146-63-2] $C_{17}H_{22}O_2$ (258.36). Oil, $[\alpha]_D = -36.9^\circ C$ ($c = 0.68$, MeOH). Pharm: Cytotoxic (L_{1210} , 0.5-1.0 $\mu g/mL$, InRt = 100%). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*. Ref: 2, 1017, 1521.

**8453 Ginsinsene**

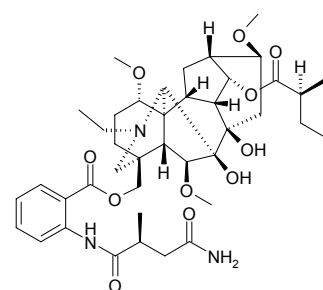
(1*R**,6*R**,7*R**)-3,7,10,10-Tetramethyltricyclo[4.3.2.0^{2,6}]undec-2-ene $C_{15}H_{24}$ (204.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 5330.

**8454 Giraldine G**

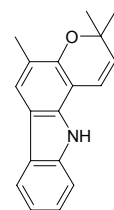
$C_{40}H_{57}N_3O_{11}$ (755.91). White amorphous powder, mp 108-110 °C, $[\alpha]_D^{20} = +35.4^\circ$ ($c = 0.42$, $CHCl_3$). Source: QIN LING CUI QUE HUA *Delphinium giraldii* (root). Ref: 4278.

**8455 Giraldine H**

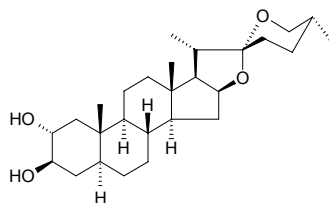
$C_{41}H_{59}N_3O_{11}$ (769.94). White amorphous powder, mp 122-124 °C, $[\alpha]_D^{20} = +34.6^\circ$ ($c = 0.35$, $CHCl_3$). Source: QIN LING CUI QUE HUA *Delphinium giraldii* (root). Ref: 4278.

**8456 Girinimbine**

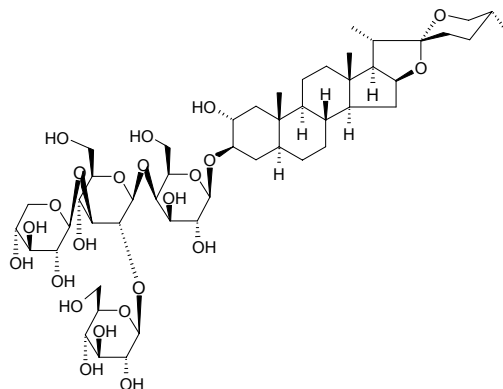
[23095-44-5] $C_{18}H_{17}NO$ (263.34). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 3.13 $\mu g/mL$, MIC = 0.012 $\mu mol/L$, control Kanamycin, MIC = 3.13 $\mu g/mL$; *Bacillus subtilis*, MIC = 25 $\mu g/mL$, MIC = 0.095 $\mu mol/L$, Kanamycin, MIC = 6.25 $\mu g/mL$; *Escherichia coli*, MIC = 50 $\mu g/mL$, MIC = 0.190 $\mu mol/L$, Kanamycin, MIC = 12.5 $\mu g/mL$; *Proteus vulgaris*, MIC = 12.5 $\mu g/mL$, MIC = 0.047 $\mu mol/L$, Kanamycin, MIC = 12.5 $\mu g/mL$)^[5299]; antifungal (*Aspergillus niger*, MIC = 25 $\mu g/mL$, MIC = 0.095 $\mu mol/L$; *Candida albicans*, MIC = 100 $\mu g/mL$, MIC = 0.302 $\mu mol/L$, control Fluconazole, MIC = 25 $\mu g/mL$, MIC = 0.082 $\mu mol/L$)^[5299]. Source: NEN YE JIU LI XIANG *Murraya microphylla*, YUAN DONG JIU LI XIANG *Murraya siamensis*, YIN DU JIU LI XIANG *Murraya koenigii* (stem cortex). Ref: 11, 5299.

**8457 Gitogenin**

[511-96-6] $C_{27}H_{44}O_4$ (432.65). mp 271-272 °C. Source: DA YU BIAO HUA *Hosta sieboldiana*, FAN MA *Agave americana*, HU LU BA *Trigonella foenum-graecum*, JI LI GEN *Tribulus terrestris*. Ref: 6, 10.

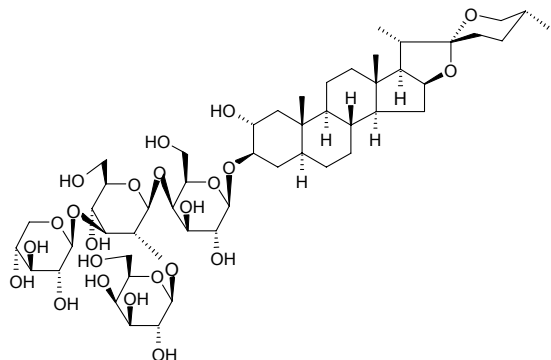
**8458 F-Gitoinin**

Gitogenin β -lycotetraoside [28591-01-7] $C_{50}H_{82}O_{23}$ (1051.20). Micro needles from MeOH, mp 260-263 °C, $[\alpha]_D^{24} = -51.6^\circ$ ($c = 0.21$, pyridine). Pharm: Antineoplastic (HeLa, inhibits ³²P combines with phospholipid in HeLa cells, 50 $\mu g/mL$, InRt = 23.1%); antiviral (reduces titer of tobacco mosaic virus by 2-3 times). Source: CI JI LI *Tribulus terrestris*. Ref: 706, 1636, 1637, 1638.

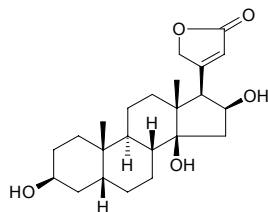


8459 Gitonin

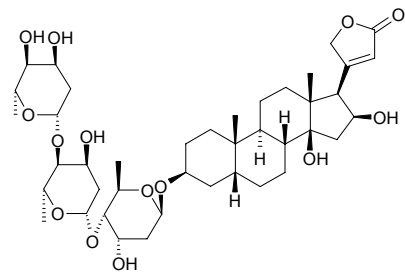
Capsicosin D₁ [39937-47-8] C₅₀H₈₂O₂₃ (1051.20). Acicular Crystals (MeOH), mp 250~253°C, $[\alpha]_D^{19} = -40^\circ$ ($c = 1$, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**8460 Gitoxigenin**

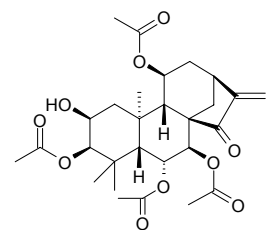
[545-26-6] C₂₃H₃₄O₅ (390.52). mp 220~225°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**8461 Gitoxin**

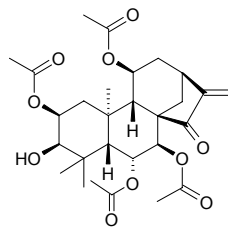
[4562-36-1] C₄₁H₆₄O₁₄ (780.96). Pharm: Cardiotonic; toxin (vertebrate). Source: MAO DI HUANG *Digitalis purpurea* (dried leaf: content = 0.0140%^[5508]), MAO HUA MAO DI HUANG *Digitalis lanata*. Ref: 658, 5508.

**8462 Glabcensin A**

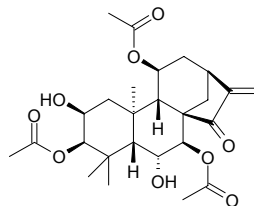
C₂₈H₃₈O₁₀ (534.61). Amorphous powder, mp 198~199°C, $[\alpha]_D^{22} = -74.9^\circ$ ($c = 0.57$, MeOH). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8463 Glabcensin B**

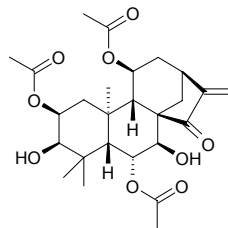
C₂₈H₃₈O₁₀ (534.61). Amorphous powder, $[\alpha]_D^{22} = -54.7^\circ$ ($c = 0.51$, MeOH). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8464 Glabcensin C**

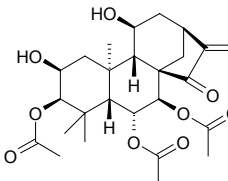
C₂₆H₃₆O₉ (492.57). Amorphous powder, $[\alpha]_D^{22} = -28.5^\circ$ ($c = 0.57$, CHCl₃). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8465 Glabcensin D**

C₂₆H₃₆O₉ (492.57). Amorphous powder, $[\alpha]_D^{22} = -37.9^\circ$ ($c = 0.44$, CHCl₃). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8466 Glabcensin E**

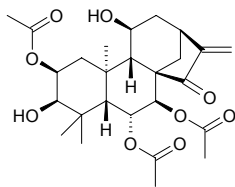
C₂₆H₃₆O₉ (492.57). Amorphous powder, $[\alpha]_D^{22} = -46.9^\circ$ ($c = 0.46$, MeOH). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.



8467 Glabcensin F

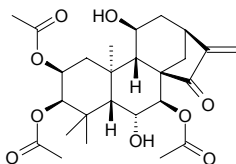
$C_{26}H_{36}O_9$ (492.57). Amorphous powder, $[\alpha]_D^{22} = -39.2^\circ$ ($c = 0.49$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8468 Glabcensin G**

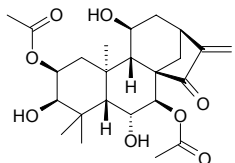
$C_{26}H_{36}O_9$ (492.57). Amorphous powder, $[\alpha]_D^{22} = -11.1^\circ$ ($c = 0.45$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8469 Glabcensin H**

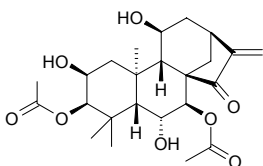
$C_{24}H_{34}O_8$ (450.53). Amorphous powder, $[\alpha]_D^{22} = -16.1^\circ$ ($c = 0.53$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8470 Glabcensin I**

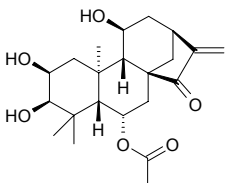
$C_{24}H_{34}O_8$ (450.53). Amorphous powder, $[\alpha]_D^{22} = -39.6^\circ$ ($c = 0.52$, $MeOH$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8471 Glabcensin J**

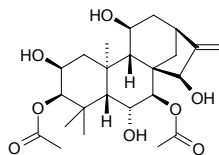
$C_{22}H_{32}O_6$ (392.50). Amorphous powder, $[\alpha]_D^{22} = -32.4^\circ$ ($c = 0.48$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8472 Glabcensin K**

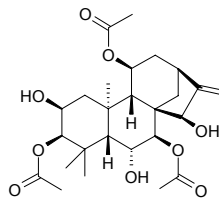
$C_{24}H_{36}O_8$ (452.55). Amorphous powder, $[\alpha]_D^{22} = -34.5^\circ$ ($c = 0.52$, $MeOH$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8473 Glabcensin L**

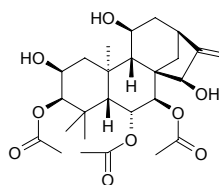
$C_{26}H_{38}O_9$ (494.59). Amorphous powder, $[\alpha]_D^{22} = -33.5^\circ$ ($c = 0.48$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8474 Glabcensin M**

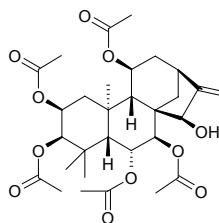
$C_{26}H_{38}O_9$ (494.59). Amorphous powder, $[\alpha]_D^{22} = -45.4^\circ$ ($c = 0.54$, $MeOH$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8475 Glabcensin N**

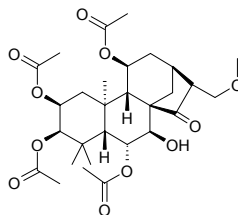
$C_{30}H_{42}O_{11}$ (578.66). Amorphous powder, $[\alpha]_D^{22} = -22.18^\circ$ ($c = 0.50$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8476 Glabcensin O**

$C_{29}H_{42}O_{11}$ (566.65). Amorphous powder, $[\alpha]_D^{22} = -26.5^\circ$ ($c = 0.49$, $CHCl_3$).

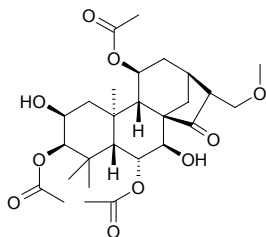
Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.



8477 Glabcesin P

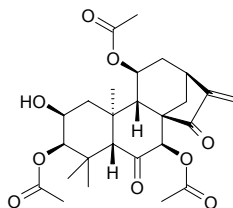
$C_{27}H_{40}O_{10}$ (524.61). Amorphous powder, $[\alpha]_D^{22} = -31.8^\circ$ ($c = 0.42$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8478 Glabcesin Q**

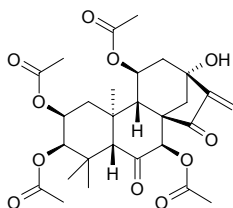
$C_{26}H_{34}O_9$ (490.56). Amorphous powder, $[\alpha]_D^{22} = -32.8^\circ$ ($c = 0.46$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8479 Glabcesin R**

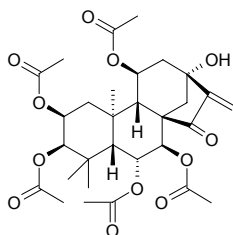
$C_{28}H_{36}O_{11}$ (548.59). Amorphous powder, $[\alpha]_D^{22} = -28.2^\circ$ ($c = 0.48$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8480 Glabcesin S**

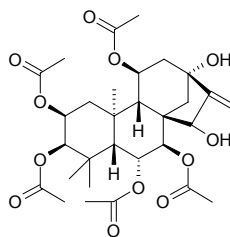
$C_{30}H_{40}O_{12}$ (592.65). Amorphous powder, $[\alpha]_D^{22} = -36.5^\circ$ ($c = 0.45$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8481 Glabcesin T**

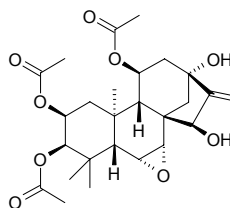
$C_{30}H_{42}O_{12}$ (594.66). Amorphous powder, $[\alpha]_D^{22} = -37.5^\circ$ ($c = 0.52$, $CHCl_3$).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8482 Glabcesin U**

$C_{26}H_{36}O_9$ (492.57). Amorphous powder, $[\alpha]_D^{22} = -21.5^\circ$ ($c = 0.45$, $CHCl_3$).

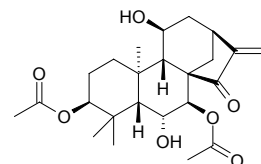
Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 4067.

**8483 Glabcesin V**

Gesneroidin F $C_{24}H_{34}O_7$ (434.53). Amorphous powder, $[\alpha]_D^{22} = -7.32^\circ$ ($c =$

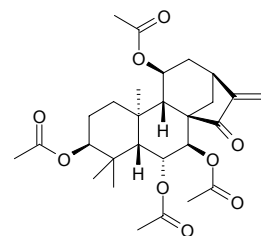
0.48 , $CHCl_3$); $[\alpha]_D^{25.6} = -22.0^\circ$ ($c = 0.25.0$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, $IC_{50} = 0.4 \mu g/mL$, control *cis*-Platin $IC_{50} = 1.1 \mu g/mL$)^[4955].

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*, DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 1869, 4067, 4955.

**8484 Glabcesin W**

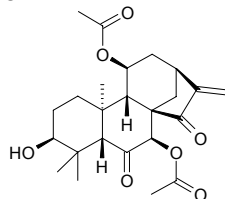
$C_{28}H_{38}O_9$ (518.61). Amorphous powder, $[\alpha]_D^{22} = -59.98^\circ$ ($c = 0.42$, MeOH).

Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. Ref: 1869, 4067.

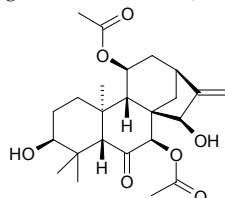


8485 Glabcensin X

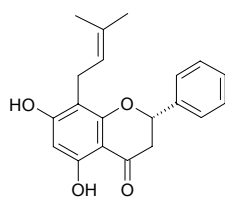
$C_{24}H_{32}O_7$ (432.52). Amorphous powder, $[\alpha]_D^{22} = -24.5^\circ$ ($c = 0.54$, $CHCl_3$).
Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. **Ref:** 1869, 4067.

**8486 Glabcensin Y**

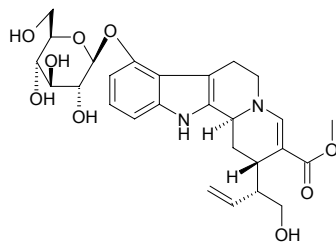
$C_{24}H_{34}O_7$ (434.53). Amorphous powder, $[\alpha]_D^{22} = -13.0^\circ$ ($c = 0.54$, $CHCl_3$).
Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens*. **Ref:** 1869, 4067.

**8487 Glabranin**

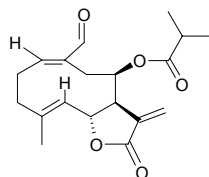
[41983-91-9] $C_{20}H_{20}O_4$ (324.38). **Pharm:** Antimicrobial (broad spectrum); promotes estrogenic activity. **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf)^[4685]. **Ref:** 2, 658, 660, 4685.

**8488 Glabratine**

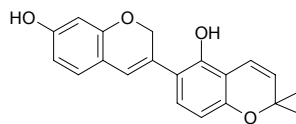
$C_{27}H_{34}N_2O_9$ (530.58). **Source:** CHANG HUA GOU TENG *Uncaria longiflora*, MIAN MAO GOU TENG *Uncaria lanosa*. **Ref:** 5341.

**8489 Glabratolide**

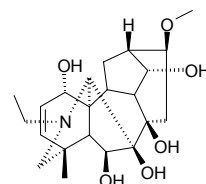
[75744-65-9] $C_{19}H_{24}O_5$ (332.40). Amorphous gum. **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 2.3 \mu\text{g/mL}$). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 658, 661, 1521.

**8490 Glabrene**

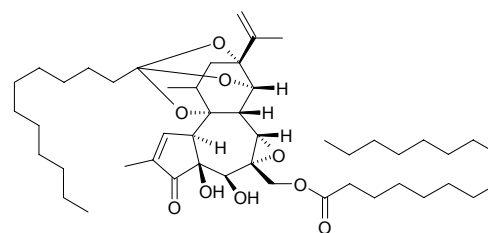
[60008-03-9] $C_{20}H_{18}O_4$ (322.36). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC13709 and *Mycobacterium smegmatis* ATCC607, MIC = $25 \mu\text{g/mL}$). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2, 658, 660.

**8491 Glabrephinine**

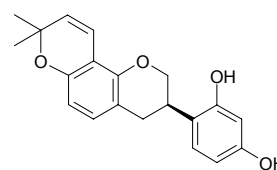
[132160-37-3] $C_{22}H_{33}NO_6$ (407.51). White acicular Crystals, mp 201–203°C. **Source:** ZHAN MAO CUI QUE HUA *Delphinium kamaonense* var. *glabrescens*. **Ref:** 157.

**8492 Glabrescin**

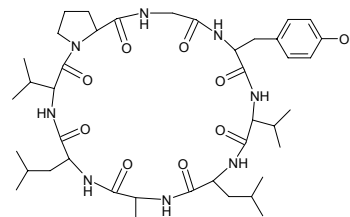
$C_{48}H_{78}O_9$ (799.15). Orange oil, $[\alpha]_D^{24} = +82^\circ$ ($c = 0.35$, $CHCl_3$). **Source:** *Neoboutonia glabrescens*. **Ref:** 3441.

**8493 Glabridin**

$C_{20}H_{20}O_4$ (324.38). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC13709, MIC = $6.25 \mu\text{g/mL}$; *Mycobacterium smegmatis*); antifungal (*Candida albicans* ATCC1023, MIC = $25 \mu\text{g/mL}$). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2, 658, 660.

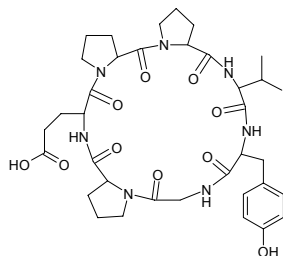
**8494 Glabrin C**

Cyclo-(prolyl-glycyl-tyrosyl-valyl-leucyl-alanyl-leucyl-valyl) $C_{41}H_{64}N_8O_9$ (813.02). Amorphous powder, mp 153°, $[\alpha]_D^{29} = -35.11^\circ$ ($c = 0.235$, MeOH). **Source:** YUAN HUA FAN LI ZHI *Annona glabra*. **Ref:** 1858.

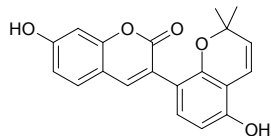


8495 Glabrin D

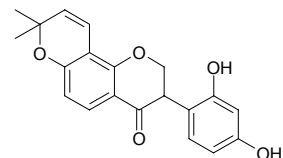
Cyclo-(prolyl-prolyl-valyl-tyrosyl-glycyl-prolyl-glutamyl) C₃₆H₄₉N₇O₁₀ (739.83). Amorphous powder, mp 219°, [α]_D²⁹ = -53.54° (c = 0.551 MeOH).
Source: YUAN HUA FAN LI ZHI *Annona glabra*. Ref: 1858.

**8496 Glabrocoumarin**

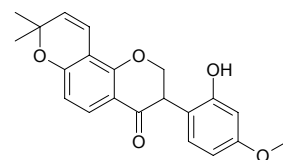
C₂₀H₁₆O₅ (336.35). Slightly yellow needles (benzene-acetone), mp 254–256°C. Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (root).
Ref: 4486.

**8497 Glabroisoflavanone A**

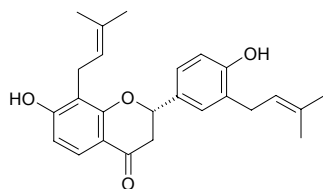
C₂₀H₁₈O₅ (338.36). Colorless prisms (MeOH-H₂O), mp 113–116°C, [α]_D²⁵ = 0° (c = 0.073, MeOH). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (root). Ref: 4486.

**8498 Glabroisoflavanone B**

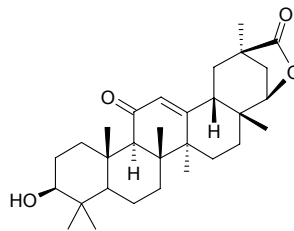
C₂₁H₂₀O₅ (352.39). Colorless prisms (MeOH-H₂O), mp 161–162°C, [α]_D²⁵ = 0° (c = 0.036, MeOH). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra* (root). Ref: 4486.

**8499 Glabrol**

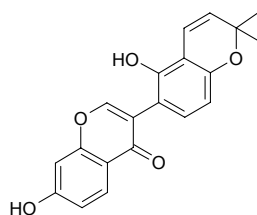
[59870-65-4] C₂₅H₂₈O₄ (392.50). Pharm: Antibacterial (*Staphylococcus aureus* ATCC13709, MIC = 1.56µg/mL; *Mycobacterium smegmatis* ATCC607, MIC = 1.56µg/mL). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, HUANG GAN CAO *Glycyrrhiza kansuensis*. Ref: 2, 591, 658, 660.

**8500 Glabrolide**

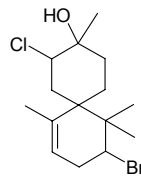
[10401-33-9] C₃₀H₄₄O₄ (468.68). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 1521.

**8501 Glabrone**

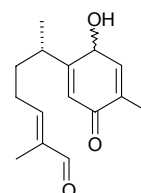
Eurycarpin B; 7,2'-Dihydroxy-6'',6''-dimethylpyrano-(2'',3''-4',3')isoflavone [60008-02-8] C₂₀H₁₆O₅ (336.35). Yellowish acicular Crystals, mp 227–229°C. Pharm: Antioxidant (*in vitro*, 8µg/mL, oxygen clearance = 28.6%, 10µg/mL, hemolytic InRt induced by H₂O₂ = 94.2%). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, HUANG GAN CAO *Glycyrrhiza kansuensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 379, 660, 1753.

**8502 Glanduliforol**

C₁₅H₂₄BrClO (335.71). Source: XIAO XIAN AO DING ZAO *Laurencia glandulifera* (in 1974, the compound was isolated from the plant by M.Suzuki et al.). Ref: 5505.

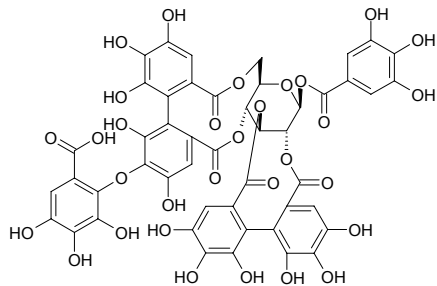
**8503 Glandulone C**

C₁₅H₂₀O₃ (248.32). Brown oil, [α]_D²⁵ = +23.6° (c = 0.12, methanol). Source: XIANG RI KUI YE *Helianthus annuus*. Ref: 1521, 1556.

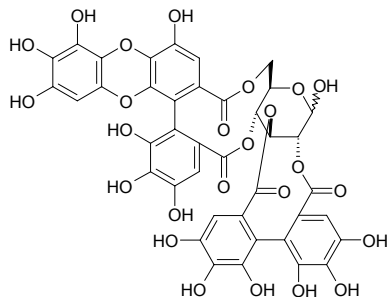


8504 Glansrin A

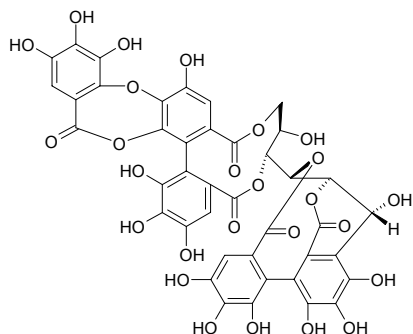
$C_{48}H_{32}O_{31}$ (1104.77). Off-white amorphous powder, $[\alpha]_D^{23} = -11^\circ$ ($c = 0.3$, MeOH). **Pharm:** Antioxidant (SOD-like activity, $EC_{50} = 190\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6\mu\text{mol/L}$); antioxidant (DPPH free radical scavenger, $EC_{50} = 0.36\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25\mu\text{mol/L}$). **Source:** HU TAO REN *Juglans regia*. **Ref:** 3408.

**8505 Glansrin B**

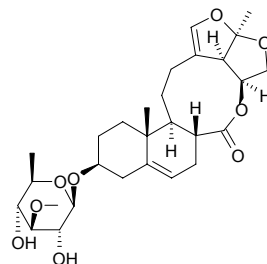
$C_{40}H_{26}O_{25}$ (906.64). Off-brown amorphous powder, $[\alpha]_D^{23} = +90^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antioxidant (SOD-like activity, $EC_{50} = 41.9\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6\mu\text{mol/L}$); antioxidant (DPPH free radical scavenger, $EC_{50} = 0.93\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25\mu\text{mol/L}$). **Source:** HU TAO REN *Juglans regia*. **Ref:** 3408.

**8506 Glansrin C**

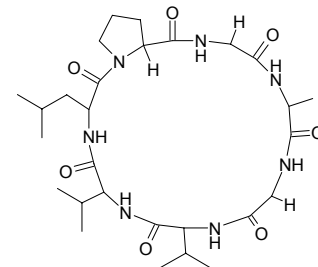
$C_{41}H_{26}O_{26}$ (934.65). Off-brown amorphous powder, $[\alpha]_D^{23} = +79^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antioxidant (SOD-like activity, $EC_{50} = 21.4\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6\mu\text{mol/L}$); antioxidant (DPPH free radical scavenger, $EC_{50} = 0.57\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25\mu\text{mol/L}$). **Source:** HU TAO REN *Juglans regia*. **Ref:** 3408.

**8507 Glaucogenin C mono-D-thevetoside**

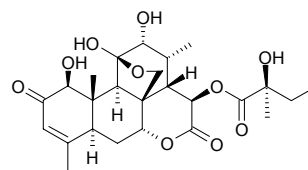
Glaucogenin C 3-*O*- β -*D*-thevetopyranoside $C_{28}H_{40}O_9$ (520.63). Colorless fine needles, mp 185–187°C, $[\alpha]_D^{25} = +26.10^\circ$ ($c = 0.991$, MeOH). **Pharm:** Anti-inflammatory inactive (no significant inhibitory effects on mast cells and neutrophils stimulated with various inducers; no significant inhibitory effects on TNF- α formation from RAW264.7 stimulated with LPS and N9 microglial cells stimulated with LPS/INF- γ)^[3054]; vasodilator inactive (*in vitro*, rat isolated aortic rings with endothelium, pre-contracted by 0.1 $\mu\text{mol/L}$ Phenylephrine or 100mmol/L KCl)^[4077]. **Source:** BAI WEI *Cynanchum atratum* (root), LIU YE BAI QIAN *Cynanchum stauntonii*. **Ref:** 3054, 4077.

**8508 Glaucacyclopeptide A**

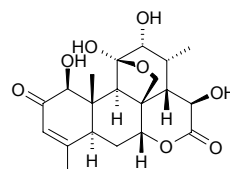
$C_{28}H_{47}N_7O_7$ (593.73). Colorless solid, mp 174–175°C, $[\alpha]_D^{22} = -57^\circ$ ($c = 0.2$, MeOH). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} = 0.73\mu\text{mol/L}$, control Doxorubicin, $IC_{50} = 0.02\mu\text{mol/L}$). **Source:** ROU MAO FAN LI ZHI *Annona glauca* (seed). **Ref:** 5282.

**8509 Glaucarubinone**

[1259-86-5] $C_{25}H_{34}O_{10}$ (494.54). mp 228–230°C, $[\alpha]_D^{20} = +50^\circ$ ($c = 0.27$, methanol). **Pharm:** Antiamebic; antineoplastic (P₃₈₈, Lewis lung cancer and B16 melanoma, 0.12–0.5mg/kg); antimalarial (ED = 0.006 $\mu\text{g/mL}$); cytotoxic (KB, ED₅₀ = 0.025 $\mu\text{g/mL}$); pesticide. **Source:** GAO CHU *Ailanthus excelsa*. **Ref:** 661.

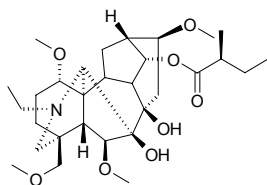
**8510 Glaucarubolone**

$C_{20}H_{26}O_8$ (394.43). **Source:** *Eurycoma harmandiana* (root). **Ref:** 5164.

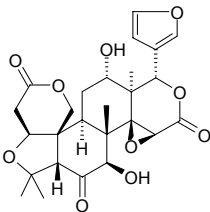


8511 Glaucedine

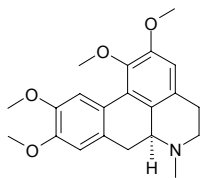
$C_{30}H_{49}NO_8$ (551.73). Source: HEI SHUI CUI QUE HUA BIAN ZHONG *Delphinium potaninii* var. *jiufengshanense* (root). Ref: 4227.

**8512 Glaucin A**

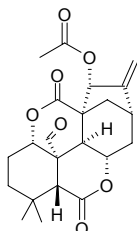
[88848-59-3] $C_{26}H_{30}O_{10}$ (502.52). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 482.

**8513 Glaucine**

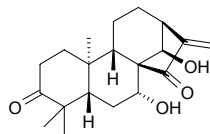
[475-81-0] $C_{21}H_{25}NO_4$ (355.44). mp 120°C. Pharm: Treatment of amebic dysentery. Source: BEI JIA ER TANG SONG CAO *Thalictrum baicalense*, DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: mean content of 3 origins = 0.114%^[5508]), HUANG HUA HAI YING SU *Glaucium davum*, SHAN YAN HU SUO *Corydalis bulbosa* [Syn. *Corydalis solida*], SUI MAO HE BAO MU DAN *Dicentra eximia*, XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.093%^[5508]), YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turschaninovii* f. *Yanhusuo*] (rhizome: mean content of 2 origins = 0.078%^[5508]), YING SU *Papaver somniferum*. Ref: 4, 56, 658, 660, 5508.

**8514 Glaucolactone**

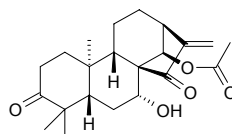
$C_{22}H_{26}O_7$ (402.45). mp 318–320°C, $[\alpha]_D^{25} = +55^\circ$ ($c = 0.30$, $CHCl_3$). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.

**8515 Glaucocalyxin A**

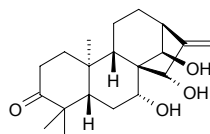
Leukamenin F $C_{20}H_{28}O_4$ (332.44). mp 220–222°C, $[\alpha]_D^{20} = -182.9^\circ$ ($c = 0.25$, $CHCl_3$). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.

**8516 Glaucocalyxin B**

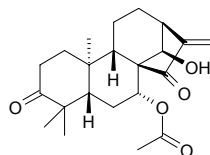
$C_{22}H_{30}O_5$ (374.48). mp 190–192°C, $[\alpha]_D^{20} = -127.9^\circ$ ($c = 0.203$, $CHCl_3$). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.

**8517 Glaucocalyxin C**

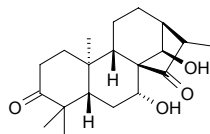
$C_{20}H_{30}O_4$ (334.46). mp 272–273°C, $[\alpha]_D^{29} = -109^\circ$ ($c = 0.1$, MeOH). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.

**8518 Glaucocalyxin D**

$C_{22}H_{30}O_5$ (374.48). mp 130–132°C, $[\alpha]_D^{19} = -161.5^\circ$ ($c = 0.15$, MeOH). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.

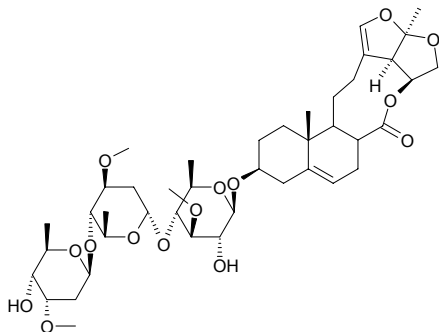
**8519 Glaucocalyxin E**

$C_{20}H_{30}O_4$ (334.46). mp 228–230°C, $[\alpha]_D^{20} = -142.5^\circ$ ($c = 0.15$, MeOH). Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucocalyx*. Ref: 4067.



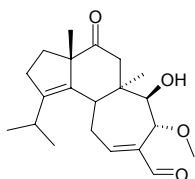
8520 Glaucogenin C 3-O-β-D-cymaropyranosyl-(1→4)-α-L-diginopyranosyl-(1→4)-β-D-thevetopyranoside

$C_{42}H_{64}O_{15}$ (808.97). **Pharm:** Anti-inflammatory (*in vitro*, inhibits TNF- α formation, 30 μ mol/L; RAW264.7 cell lines LPS-stimulated, InRt = (33.7 \pm 6.2)%; N9 microglial cell lines, LPS/IFN- γ -stimulated, InRt = (30.9 \pm 4.3)%; no significant inhibitory effects on mast cells and neutrophils stimulated with various inducers); cytotoxic (*in vitro*, 212 cells, ED₅₀ = 0.96 μ g/mL, significant activity). **Source:** BAI WEI *Cynanchum atratum* (root). **Ref:** 3054.



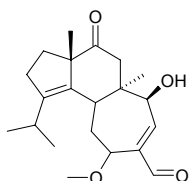
8521 Glaucopine A

14-Hydroxy-13-methoxy-8-oxocyclohexa-3,11-diene-12-carbaldehyde $C_{21}H_{30}O_4$ (346.47). Colorless resin, $[\alpha]_D^{31} = -30.8^\circ$ ($c = 0.42$, $CHCl_3$). **Pharm:** Anti-inflammatory (*in vivo*, mouse ear edema induced by croton oil, 1.0 μ mol/cm², edema reduction = 62%, control Indomethacin, 0.3 μ mol/cm², edema reduction = 61%). **Source:** CANG BAI BING ROU CHI JUN *Sarcodon glaucopus*. **Ref:** 5063.



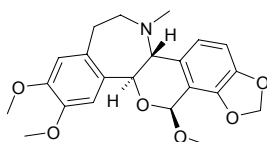
8522 Glaucopine B

14-Hydroxy-11-methoxy-8-oxocyclohexa-3,12-diene-12-carbaldehyde $C_{21}H_{30}O_4$ (346.47). Colorless resin, $[\alpha]_D^{31} = -98.0^\circ$ ($c = 0.73$, $CHCl_3$). **Pharm:** Anti-inflammatory (*in vivo*, mouse ear edema induced by croton oil, 1.0 μ mol/cm², edema reduction = 55%, control Indomethacin, 0.3 μ mol/cm², edema reduction = 61%). **Source:** CANG BAI BING ROU CHI JUN *Sarcodon glaucopus*. **Ref:** 5063.



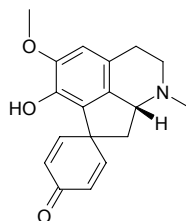
8523 Gladine

[5140-40-9] $C_{22}H_{25}NO_6$ (399.45). mp 103–105°C. **Source:** YA PIAN *Papaver somniferum*. **Ref:** 6.



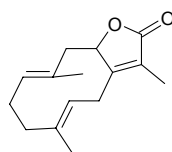
8524 Glaziovine

[6808-72-6] $C_{18}H_{19}NO_3$ (297.36). Colorless lamellar Crystals (benzene), mp 223°C, $[\alpha]_D = -45.74^\circ$ ($c = 0.26$, methanol). **Pharm:** Antineoplastic (nasopharyngeal carcinoma cells, ED₅₀ = 2.6 μ g/mL); antiulcerative (rat and gpg, 5mg/kg iv); CNS depressant (animal, relieves anxiety); antihypertensive (rat, 5–15mg iv, 1–3h blood pressure reduced by (50–70)%); anxiolytic and antidepressant, treatment of terror, anxiety and melancholy. **Source:** SAN HUA BA DOU *Croton sparsiflorus*, WEI ER SHI LV RONG HAO *Meconopsis cambrica*, ZI FAN LI ZHI *Amnona purpurea*. **Ref:** 658, 661.



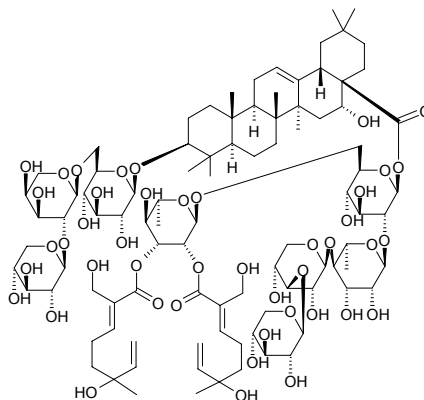
8525 Glechomanolide

$C_{15}H_{20}O_2$ (232.33). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (86.5 \pm 1.0)%, control L-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.



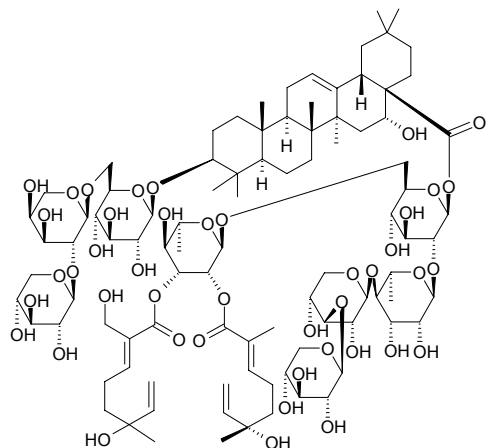
8526 Gleditsiasaponin B

$C_{94}H_{148}O_{44}$ (1982.20). $[\alpha]_D^{25} = -20^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, IC₅₀ = (1.0 \pm 0.2) μ mol/L, control Taxol, IC₅₀ = (4.1E-4 \pm 1.1E-4) μ mol/L; MCF7, IC₅₀ = (24.5 \pm 1.2) μ mol/L, Taxol, IC₅₀ = (15.3 \pm 2.6) μ mol/L; Bel7402, IC₅₀ = (42.6 \pm 4.2) μ mol/L, Taxol, IC₅₀ = (0.3 \pm 0.1) μ mol/L; BGC823, IC₅₀ = (60.6 \pm 2.8) μ mol/L; HeLa, IC₅₀ = (50.6 \pm 0.4) μ mol/L, Taxol, IC₅₀ = (33.0 \pm 6.1) μ mol/L; KB, IC₅₀ = (44.7 \pm 4.0) μ mol/L, Taxol, IC₅₀ > 100 μ mol/L); apoptosis inducer (HL-60 cells, 15 μ mol/L, sub-G1 population = (59.1 \pm 2.8)%, control sub-G1 population = (5.4 \pm 3.2)%, positive control Taxol, sub-G1 population = (40.5 \pm 0.2)%). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

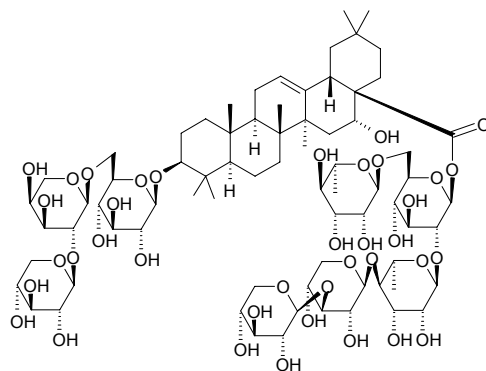


8527 Gleditsiasaponin C'

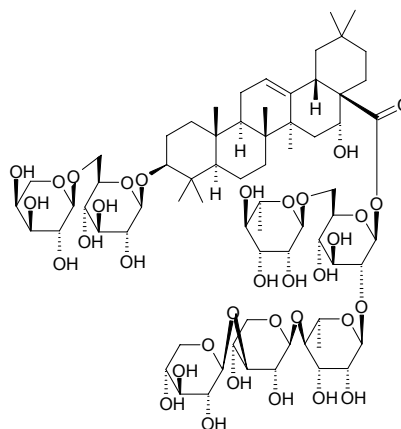
$C_{94}H_{148}O_{43}$ (1966.20). $[\alpha]_D^{25} = -21^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (0.4 \pm 0.0) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (28.7 \pm 3.0) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (37.6 \pm 3.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (40.0 \pm 3.4) \mu\text{mol/L}$; HeLa, $IC_{50} = (33.9 \pm 0.0) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (44.6 \pm 0.7) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(40.4 \pm 4.7)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8528 Gleditsiasaponin C'**

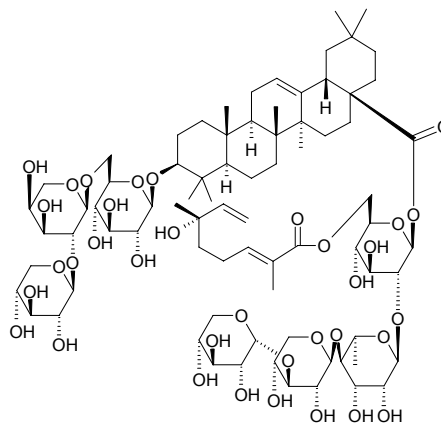
3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl-28-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 3)- β -*D*-Xylopyranosyl(1 \rightarrow 4)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl echinocystic acid $C_{74}H_{120}O_{38}$ (1617.76). White amorphous solid, mp 234–235°C(dec), $[\alpha]_D^{21} = -18^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (100.0 \pm 5.2) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (35.7 \pm 2.5) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} > 100 \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (100 \pm 3.7) \mu\text{mol/L}$; HeLa, $IC_{50} = (54.0 \pm 1.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} > 100 \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$)^[5015]; apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(8.6 \pm 2.6)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$)^[5015]. **Source:** YUN NAN ZAO JIA *Gleditsia delavayi*, ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 2257, 2375, 5015.

**8529 Gleditsiasaponin E'**

$C_{69}H_{112}O_{34}$ (1485.64). White amorphous solid, mp 232–233°C(dec), $[\alpha]_D^{21} = -33^\circ$ ($c = 0.10$, MeOH). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 2375.

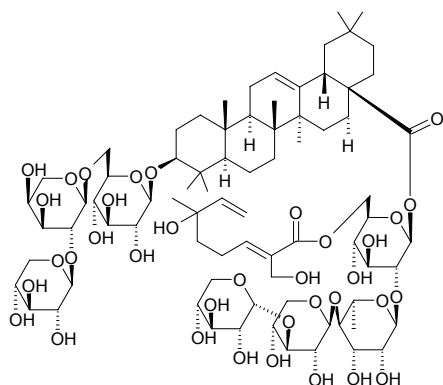
**8530 Gleditsioside A**

$C_{78}H_{124}O_{35}$ (1621.84). $[\alpha]_D^{25} = -11^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (16.7 \pm 0.8) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (12.9 \pm 1.1) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (34.6 \pm 0.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (37.5 \pm 2.5) \mu\text{mol/L}$; HeLa, $IC_{50} = (35.8 \pm 1.2) \mu\text{mol/L}$, Taxol, $IC_{50} = 33.0 \pm 6.1 \mu\text{mol/L}$; KB, $IC_{50} = (44.5 \pm 3.0) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(8.3 \pm 1.7)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

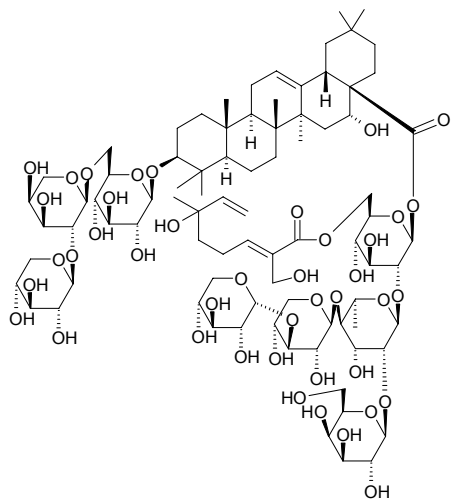


8531 Gleditsioside B

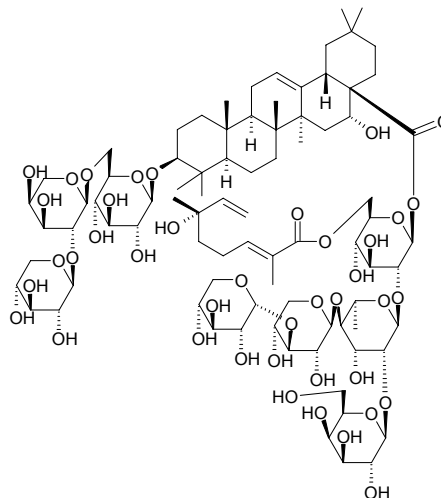
$C_{78}H_{124}O_{36}$ (1637.84). $[\alpha]_D^{25} = -10^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (14.7 \pm 1.1) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (17.5 \pm 0.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (27.4 \pm 0.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (46.6 \pm 4.6) \mu\text{mol/L}$; HeLa, $IC_{50} = (35.9 \pm 1.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (44.7 \pm 4.3) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(14.9 \pm 3.0)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8532 Gleditsioside C**

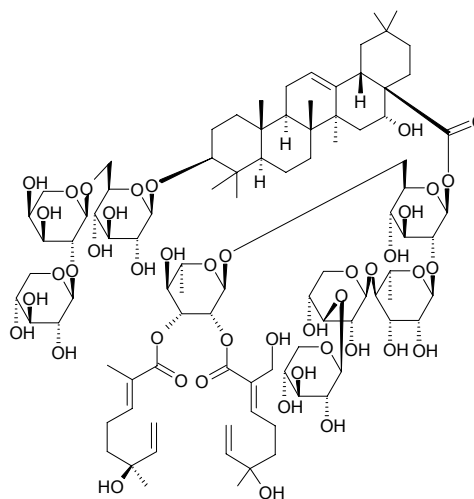
$C_{84}H_{134}O_{42}$ (1815.98). $[\alpha]_D^{25} = -15^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (2.2 \pm 0.2) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (26.3 \pm 2.3) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (50.3 \pm 2.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (50.6 \pm 4.2) \mu\text{mol/L}$; HeLa, $IC_{50} = (36.7 \pm 3.2) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (33.1 \pm 3.7) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(25.8 \pm 4.0)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8533 Gleditsioside D**

$C_{84}H_{134}O_{41}$ (1799.98). $[\alpha]_D^{25} = -19^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (3.5 \pm 0.1) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; MCF7, $IC_{50} = (9.7 \pm 0.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (6.6 \pm 0.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (6.0 \pm 2.2) \mu\text{mol/L}$; HeLa, $IC_{50} = (4.7 \pm 0.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (42.5 \pm 3.8) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(13.8 \pm 2.5)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

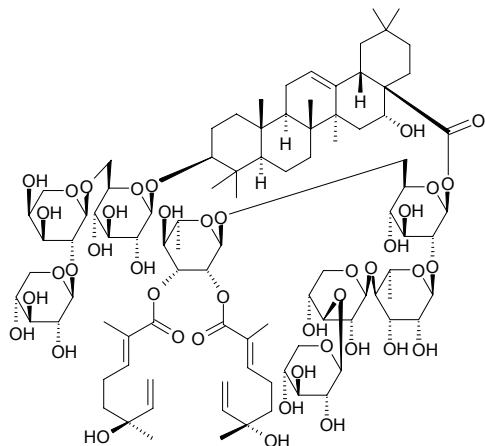
**8534 Gleditsioside E**

$C_{94}H_{148}O_{43}$ (1966.20). $[\alpha]_D^{25} = -23^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (Bel7402 cancer cell, $IC_{50} = (3.1 \pm 2.8) \mu\text{mol/L}$, control Paclitaxel, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (8.0 \pm 1.2) \mu\text{mol/L}$; HeLa, $IC_{50} = (5.0 \pm 3.4) \mu\text{mol/L}$, Paclitaxel, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; HL-60, $IC_{50} = (3.0 \pm 1.3) \mu\text{mol/L}$, Paclitaxel, $IC_{50} = (4.1E-4 \pm 1.1E-4) \mu\text{mol/L}$; KB, $IC_{50} = (34.3 \pm 4.5) \mu\text{mol/L}$; MCF7, $IC_{50} = (6.6 \pm 2.3) \mu\text{mol/L}$, Paclitaxel, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$)^[5410]. **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015, 5410.

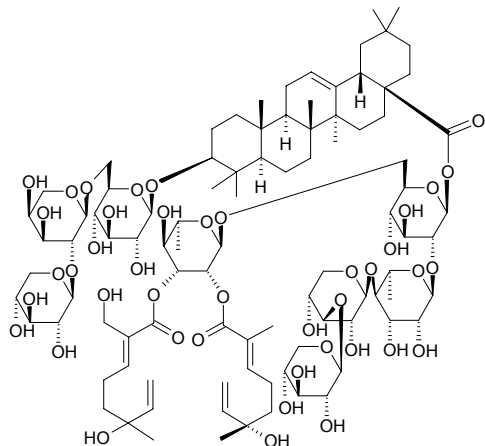


8535 Gleditsioside F

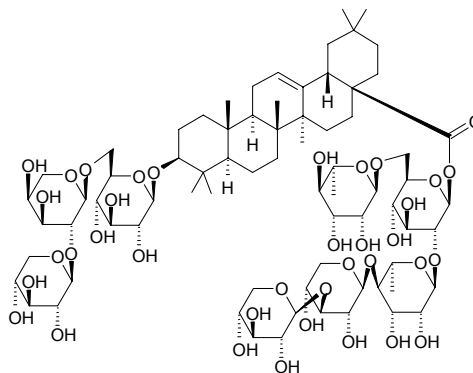
$C_{94}H_{148}O_{42}$ (1950.20). $[\alpha]_D^{25} = -20^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (1.1 \pm 0.1) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$; MCF7, $IC_{50} = (23.6 \pm 3.2) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (3.5 \pm 0.1) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (49.1 \pm 0.1) \mu\text{mol/L}$; HeLa, $IC_{50} = (3.3 \pm 0.2) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (36.7 \pm 3.0) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(16.6 \pm 2.0)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8536 Gleditsioside G**

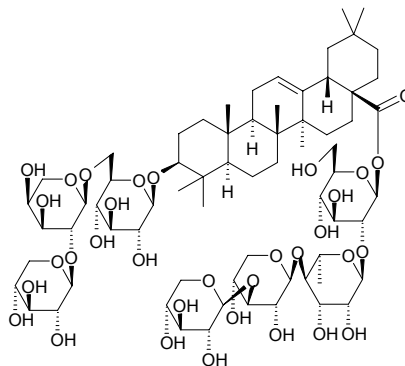
$C_{94}H_{148}O_{42}$ (1950.20). $[\alpha]_D^{25} = -10^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (21.9 \pm 2.2) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$; MCF7, $IC_{50} = (35.8 \pm 5.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (39.0 \pm 0.3) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (52.9 \pm 5.2) \mu\text{mol/L}$; HeLa, $IC_{50} = (45.0 \pm 2.1) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (42.5 \pm 0.8) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(27.5 \pm 4.8)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8537 Gleditsioside H**

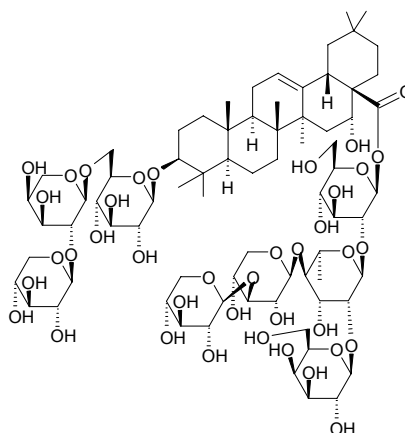
$C_{74}H_{120}O_{37}$ (1601.76). White amorphous solid, mp $250\text{--}251^\circ\text{C}$ (dec), $[\alpha]_D^{21} = -12^\circ$ ($c = 0.10$, MeOH). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 2375.

**8538 Gleditsioside I**

$C_{68}H_{110}O_{33}$ (1455.62). White amorphous solid, mp $255\text{--}256^\circ\text{C}$ (dec), $[\alpha]_D^{21} = -17^\circ$ ($c = 0.10$, MeOH). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 2375.

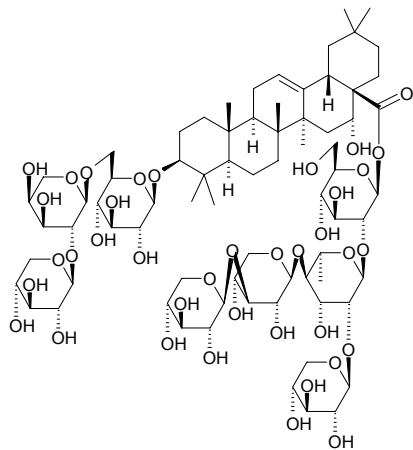
**8539 Gleditsioside J**

$C_{74}H_{120}O_{39}$ (1633.76). White amorphous solid, mp $256\text{--}257^\circ\text{C}$ (dec), $[\alpha]_D^{21} = -15^\circ$ ($c = 0.10$, MeOH). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 2375.

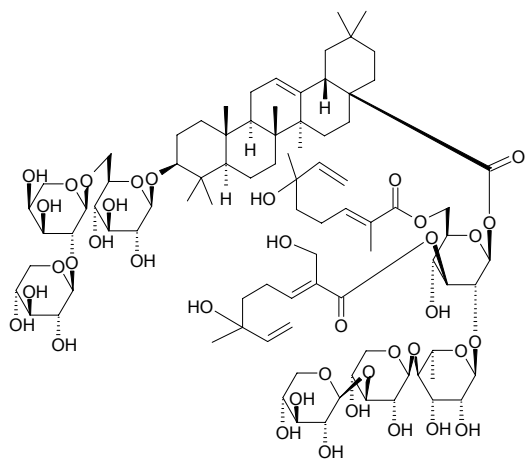


8540 Gleditsioside K

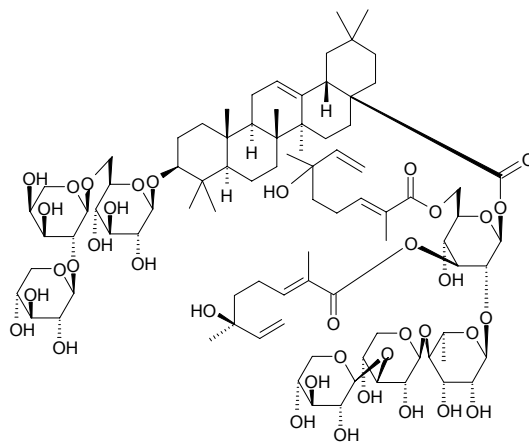
$C_{73}H_{118}O_{38}$ (1603.73). White amorphous solid, mp 238~239°C(dec), $[\alpha]_D^{21} = -12^\circ$ ($c = 0.10$, MeOH). Source: ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. Ref: 2375.

**8541 Gleditsioside N**

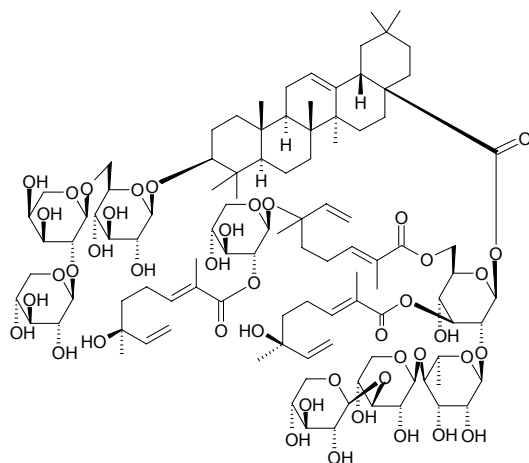
$C_{88}H_{138}O_{38}$ (1804.06). $[\alpha]_D^{25} = -18^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HL-60, $IC_{50} = (31.9 \pm 1.8) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$; MCF7, $IC_{50} = (58.1 \pm 4.2) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (49.3 \pm 5.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (54.7 \pm 0.7) \mu\text{mol/L}$; HeLa, $IC_{50} = (35.7 \pm 1.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = 60.6 \pm 3.5 \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(9.1 \pm 0.9)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). Source: ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). Ref: 5015.

**8542 Gleditsioside O**

$C_{88}H_{138}O_{37}$ (1788.06). $[\alpha]_D^{25} = -20^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HL-60, $IC_{50} = (68.1 \pm 2.3) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(7.8 \pm 2.5)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). Source: ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). Ref: 5015.

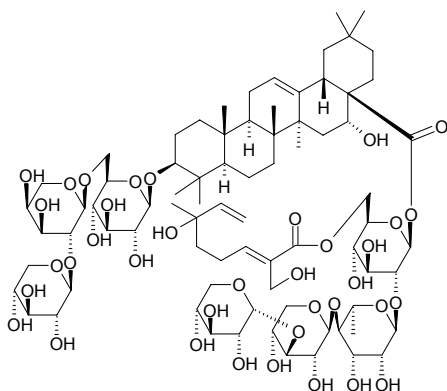
**8543 Gleditsioside P**

$C_{103}H_{160}O_{43}$ (2086.40). $[\alpha]_D^{25} = -20^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HL-60, $IC_{50} = (31.9 \pm 2.6) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$; MCF7, $IC_{50} = (23.1 \pm 2.0) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (40.0 \pm 2.3) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (40.0 \pm 2.1) \mu\text{mol/L}$; HeLa, $IC_{50} = (35.7 \pm 0.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = 36.7 \pm 4.3 \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(31.4 \pm 2.2)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). Source: ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). Ref: 5015.

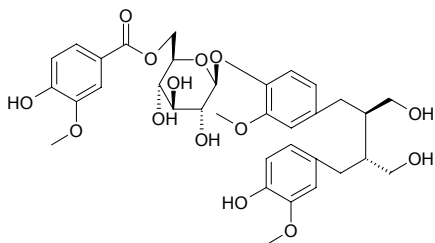


8544 Gleditsioside Q

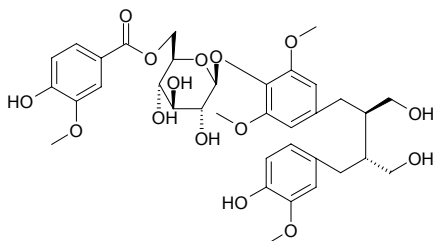
$C_{78}H_{124}O_{37}$ (1653.84). $[\alpha]_D^{25} = -12^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60, $IC_{50} = (5.9 \pm 0.5) \mu\text{mol/L}$, control Taxol, $IC_{50} = (4.1 \times 10^{-4} \pm 1.1 \times 10^{-4}) \mu\text{mol/L}$; MCF7, $IC_{50} = (34.4 \pm 0.8) \mu\text{mol/L}$, Taxol, $IC_{50} = (15.3 \pm 2.6) \mu\text{mol/L}$; Bel7402, $IC_{50} = (29.0 \pm 2.7) \mu\text{mol/L}$, Taxol, $IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$; BGC823, $IC_{50} = (51.0 \pm 3.0) \mu\text{mol/L}$; HeLa, $IC_{50} = (43.9 \pm 1.5) \mu\text{mol/L}$, Taxol, $IC_{50} = (33.0 \pm 6.1) \mu\text{mol/L}$; KB, $IC_{50} = (44.9 \pm 3.6) \mu\text{mol/L}$, Taxol, $IC_{50} > 100 \mu\text{mol/L}$); apoptosis inducer (HL-60 cells, $15 \mu\text{mol/L}$, sub-G1 population = $(24.2 \pm 3.0)\%$, control sub-G1 population = $(5.4 \pm 3.2)\%$, positive control Taxol, sub-G1 population = $(40.5 \pm 0.2)\%$). **Source:** ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit). **Ref:** 5015.

**8545 Glehlinoside A**

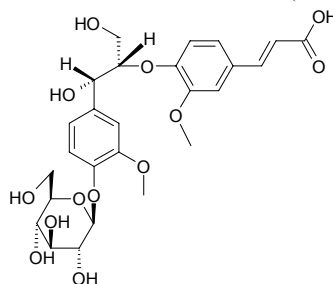
$C_{34}H_{43}O_{14}$ (674.71). Colorless amorphous solid, $[\alpha]_D = -158.3^\circ$ ($c = 0.08$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} = 18.9 \mu\text{g/mL} = 28.0 \mu\text{mol/L}$, control Ascorbic acid, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$)^[4154]. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.

**8546 Glehlinoside B**

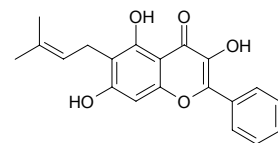
$C_{35}H_{44}O_{15}$ (704.73). Colorless amorphous solid, $[\alpha]_D = -54.5^\circ$ ($c = 0.107$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} > 50 \mu\text{g/mL}$, $50 \mu\text{g/mL}$ InRt = 37%, control Ascorbic acid, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$)^[4154]. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.

**8547 Glehlinoside C**

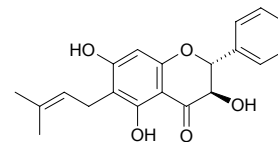
$C_{26}H_{32}O_{13}$ (552.54). Off-white amorphous solid, $[\alpha]_D = -34.3^\circ$ ($c = 0.087$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} > 50 \mu\text{g/mL}$, $50 \mu\text{g/mL}$ InRt = 18%, control Ascorbic acid, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$). **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.

**8548 Glepidotin A**

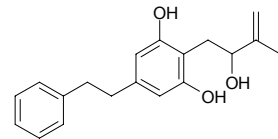
[42193-83-9] $C_{20}H_{18}O_5$ (388.36). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Mycobacterium smegmatis* and *Klebsiella pneumoniae*); antifungal (*Candida albicans*). **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota*. **Ref:** 1521.

**8549 Glepidotin B**

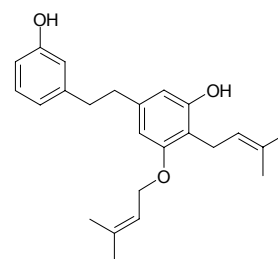
[87440-56-0] $C_{20}H_{20}O_5$ (340.38). **Pharm:** Antimicrobial (broad spectrum). **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota*. **Ref:** 1521.

**8550 Glepidotin C**

[126026-25-3] $C_{19}H_{22}O_3$ (298.39). **Pharm:** Antimicrobial. **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota*. **Ref:** 658.

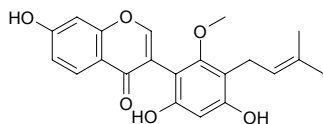
**8551 Glepidotin D**

2-(3-Methyl-2-butenyl)-3-O-(3-methyl-2-butenyl)-5-[2-(3-hydroxyphenyl)ethyl]-1,3-benzenediol $C_{24}H_{30}O_3$ (366.50). **Pharm:** Anti-HIV ($IC_{50} = 5.0 \mu\text{g/mL}$, $EC_{50} = 2.0 \mu\text{g/mL}$)^[5180]. **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota* (stem and leaf). **Ref:** 5180.

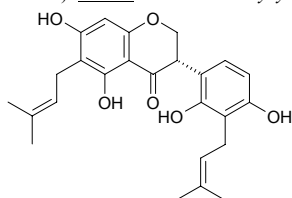


8552 Glicoricone

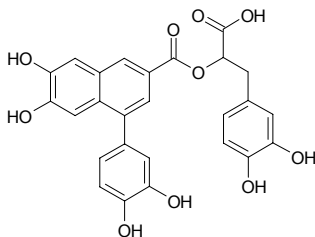
$C_{21}H_{20}O_6$ (368.39). Source: *Glycyrrhiza* sp. Ref: 2431.

**8553 Glisoflavanone**

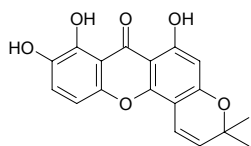
$C_{25}H_{28}O_6$ (424.50). Pale yellow acicular Crystals, mp 131°C, $[\alpha]_D = 0^\circ$ ($c = 1$, acetone). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 748.

**8554 Globoidnan A**

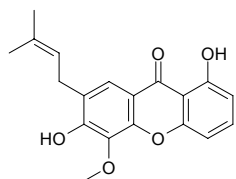
$C_{26}H_{20}O_{10}$ (492.44). Brown oil, $[\alpha]_D = +14.4^\circ$ ($c = 0.118$, MeOH). Pharm: HIV integrase Inhibitor ($IC_{50} = 0.64 \mu\text{mol/L}$). Source: *Eucalyptus globoidea* (bud). Ref: 3894.

**8555 Globulixanthone C**

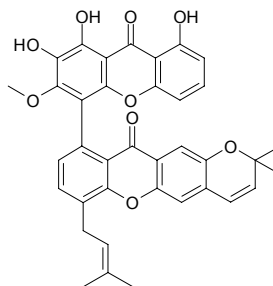
1,7,8-Trihydroxy-2,2-dimethylpyrano[5',6':3,4]xanthone $C_{18}H_{14}O_6$ (326.31). Yellow needles, mp 285°C. Pharm: Antimicrobial (*in vitro*, significant activity against a range of microorganisms). Source: KA MAI LONG XIN FO NI A *Symphonia globulifera*. Ref: 2029.

**8556 Globulixanthone D**

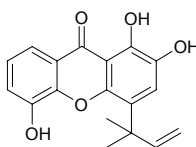
1,6-Dihydroxy-5-methoxy-7-(3-methylbut-2-enyl)xanthone $C_{19}H_{18}O_5$ (326.35). Yellow Crystals, mp 120°C. Pharm: Antimicrobial (*in vitro*, significant activity against a range of microorganisms); cytotoxic ($P_{388} \text{ED}_{50} = 0.42 \mu\text{g/mL}$, control Mithramycin $\text{ED}_{50} = 0.06 \mu\text{g/mL}$, HT29 $\text{ED}_{50} = 0.98 \mu\text{g/mL}$, control Mithramycin $\text{ED}_{50} = 0.08 \mu\text{g/mL}$)^[4094]. Source: KA MAI LONG XIN FO NI A *Symphonia globulifera*, TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 2029, 4094.

**8557 Globulixanthone E**

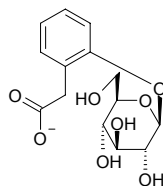
$C_{37}H_{30}O_9$ (618.65). Pale yellow amorphous powder, mp 228°C. Pharm: Antimicrobial (*in vitro*, significant activity against a range of microorganisms). Source: KA MAI LONG XIN FO NI A *Symphonia globulifera*. Ref: 2029.

**8558 Globuxanthone**

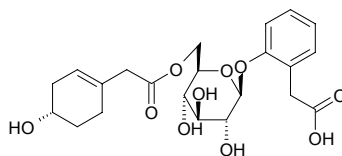
[13586-28-2] $C_{18}H_{16}O_5$ (312.33). Source: KA MAI LONG XIN FO NI A *Symphonia globulifera*, *Garcinia vilersiana* (bark). Ref: 1521, 3902.

**8559 Glochidacuminoside A**

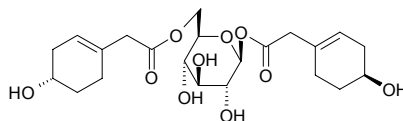
$C_{14}H_{17}O_8^-$ (313.29). Amorphous powder, $[\alpha]_D^{20} = -39.2^\circ$ ($c = 0.26$, MeOH). Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

**8560 Glochidacuminoside B**

$C_{22}H_{28}O_{10}$ (452.46). Amorphous powder, $[\alpha]_D^{23} = -48.0^\circ$ ($c = 0.85$, MeOH). Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

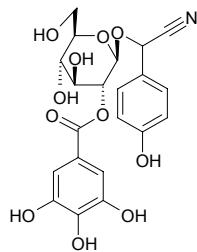
**8561 Glochidacuminoside C**

$C_{22}H_{32}O_{10}$ (456.49). Amorphous powder, $[\alpha]_D^{26} = -25.8^\circ$ ($c = 1.91$, MeOH). Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

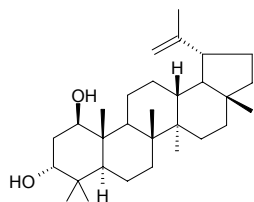


8562 Glochidacuminoside D

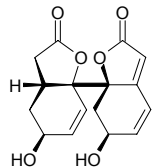
$C_{21}H_{21}NO_{11}$ (463.40). Amorphous powder, $[\alpha]_D^{28} = -72.8^\circ$ ($c = 0.67$, MeOH).
 Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

**8563 Glochidiol**

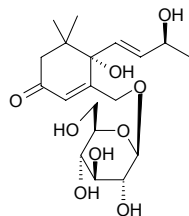
$C_{30}H_{50}O_2$ (442.73). mp 260~262°C, $[\alpha]_D^{23} = +19^\circ$ ($c = 0.98$, $CHCl_3$); mp 265~267°C (hexane), $[\alpha]_D^{20} = +18.3^\circ$ ($c = 0.05$ g/mL, $CHCl_3$). Pharm: Antineoplastic (EBV-EA induced by TPA, $IC_{50} = 290$ (mol ratio/32pmol TPA), control Curcumin $IC_{50} = 343$ (mol ratio/32pmol TPA)^[4099]; cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), $GI_{50} = (6.6 \pm 0.7)\mu\text{mol/L}$, control Doxorubicin, $GI_{50} = (42.8 \pm 8.2)\mu\text{mol/L}$; NCI-H460 (lung), $GI_{50} = (7.5 \pm 0.5)\mu\text{mol/L}$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7)\mu\text{mol/L}$; SF268(CNS), $GI_{50} = (9.7 \pm 0.3)\mu\text{mol/L}$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0)\mu\text{mol/L}$)^[5065]. Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (stem cortex), MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood), YUAN GUO SUAN PAN ZI *Glochidion sphaerogynum* (root and stem wood). Ref: 4099, 5065.

**8564 Glochidiolide**

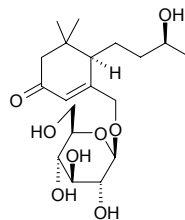
$C_{16}H_{16}O_6$ (304.30). Colorless rods, mp 210~213°C, $[\alpha]_D^{25} = -69.8^\circ$ ($c = 0.49$, DMSO).
 Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

**8565 Glochidionionoside A**

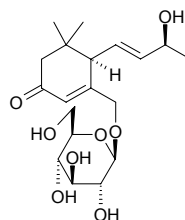
(6*S*,7*E*,9*S*)-Megastigman-3-one-4,7-diene-6,9,13-triol 13-*O*-β-*D*-glucopyranoside $C_{19}H_{30}O_9$ (402.45). Amorphous powder, $[\alpha]_D^{28} = +29.1^\circ$ ($c = 1.48$, MeOH). Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). Ref: 4323.

**8566 Glochidionionoside B**

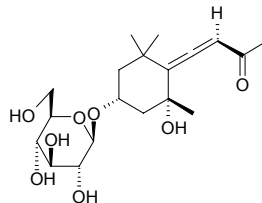
(6*R*,9*S*)-Megastigman-3-on-4-ene-9,13-diol $C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{28} = +7.4^\circ$ ($c = 1.22$, MeOH); $[\alpha]_D^{25} = +7.5^\circ$ ($c = 0.53$, MeOH). Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf), LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*. Ref: 4323, 4543.

**8567 Glochidionionoside C**

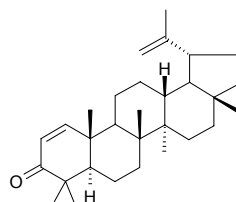
(6*R*,7*E*,9*S*)-Megastigman-3-one-4,7-diene-9,13-diol 13-*O*-β-*D*-glucopyranoside $C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{28} = +112.1^\circ$ ($c = 1.42$, MeOH). Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). Ref: 4323.

**8568 Glochidionionoside D**

$C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{28} = -47.8^\circ$ ($c = 1.15$, MeOH).
 Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). Ref: 4323.

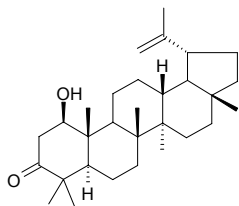
**8569 Glochidone**

$C_{30}H_{46}O$ (422.70). mp 165~167°C, $[\alpha]_D^{23} = +42^\circ$ ($c = 0.46$, $CHCl_3$); mp 163~164°C (EtOH), $[\alpha]_D^{20} = +70.6^\circ$ ($c = 7$ mg/mL, $CHCl_3$). Pharm: Antineoplastic (EBV-EA induced by TPA, $IC_{50} = 341$ (mol ratio/32pmol TPA), control Curcumin $IC_{50} = 343$ (mol ratio/32pmol TPA)^[4099]; cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), $GI_{50} > 100\mu\text{mol/L}$, control Doxorubicin, $GI_{50} = (42.8 \pm 8.2)\mu\text{mol/L}$; NCI-H460 (lung), $GI_{50} > 100\mu\text{mol/L}$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7)\mu\text{mol/L}$; SF268(CNS), $GI_{50} > 100\mu\text{mol/L}$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0)\mu\text{mol/L}$)^[5065]. Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (stem cortex), MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood). Ref: 4099, 5065.

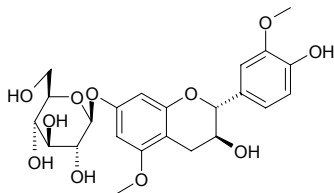


8570 Glochidonol

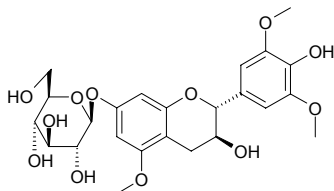
$C_{30}H_{48}O_2$ (440.72). mp 225–227°C, $[\alpha]_D^{23} = +23^\circ$ ($c = 0.95$, $CHCl_3$); mp 228–230°C (hexane), $[\alpha]_D^{20} = +50.7^\circ$ ($c = 0.5g/100mL$, $CHCl_3$). **Pharm:** Antineoplastic (EBV-EA induced by TPA, $IC_{50} = 325$ (mol ratio/32pmol TPA), control Curcumin $IC_{50} = 343$ (mol ratio/32pmol TPA)^[4099]; cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), $GI_{50} = (9.0 \pm 3.7)\mu mol/L$, control Doxorubicin, $GI_{50} = (42.8 \pm 8.2)\mu mol/L$; NCI-H460 (lung), $GI_{50} = (4.9 \pm 0.2)\mu mol/L$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7)\mu mol/L$; SF268(CNS), $GI_{50} = (9.8 \pm 0.5)\mu mol/L$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0)\mu mol/L$)^[5065]. **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (stem cortex), MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood), YUAN GUO SUAN PAN ZI *Glochidion sphaerogynum* (root and stem wood). **Ref:** 4099, 5065.

**8571 Glochiflavanoside A**

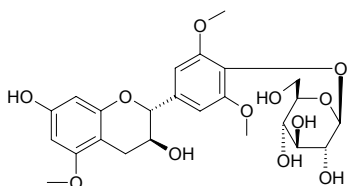
$C_{23}H_{28}O_{11}$ (480.47). Amorphous powder, $[\alpha]_D^{22} = -47.1^\circ$ ($c = 1.57$, MeOH). **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). **Ref:** 4103.

**8572 Glochiflavanoside B**

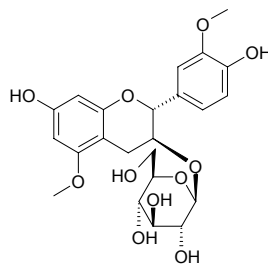
$C_{24}H_{30}O_{12}$ (510.50). Colorless needles (MeOH), mp 222–224°C, $[\alpha]_D^{22} = -61.4^\circ$ ($c = 0.57$, MeOH). **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). **Ref:** 4103.

**8573 Glochiflavanoside C**

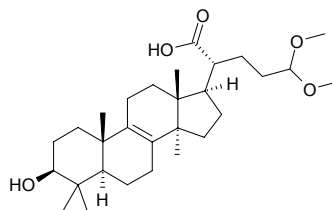
$C_{24}H_{30}O_{12}$ (510.50). Colorless needles (MeOH), mp 260–262°C, $[\alpha]_D^{25} = -5.7^\circ$ ($c = 0.35$, MeOH). **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). **Ref:** 4103.

**8574 Glochiflavanoside D**

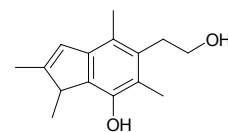
$C_{23}H_{28}O_{11}$ (480.47). Amorphous powder. **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (leaf). **Ref:** 4103.

**8575 Gloeophyllic acid A dimethylacetal**

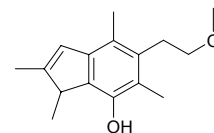
4,4,14α-Trimethyl-24-oxo-5α-chole-8-en-21-oic acid dimethylacetal $C_{29}H_{48}O_5$ (476.70). Amorphous yellow powder, mp 205–210°C. **Source:** *Gloeophyllum odoratum*. **Ref:** 3972.

**8576 Gloeophyllol A**

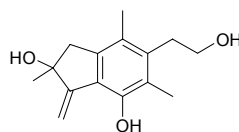
$C_{15}H_{20}O_2$ (232.23). Colorless oil, $[\alpha]_D = -33^\circ$ ($c = 0.2$, $CHCl_3:CH_3OH = 19:1$). **Pharm:** Antibacterial inactive (*Bacillus brevis*, *Bacillus subtilis*, *Enterobacter dissolvens*, *Micrococcus luteus*, 100μg/filter disc); antifungal inactive (*Mucor miehei*, *Paecilomyces notatum*, *Paecilomyces variotii*, *Nematospora coryli*, 100μg/filter disc); cytotoxic inactive (HeLa-S3, HL-60, COS-7). **Source:** *Gloeophyllum* sp. **Ref:** 3968.

**8577 Gloeophyllol B**

$C_{16}H_{22}O_2$ (246.35). Colorless oil. **Pharm:** Antifungal (*Mucor miehei*, *Penicillium notatum*, 50μg/filter disc, weak activity); cytotoxic inactive (HeLa-S3, HL-60, COS-7). **Source:** *Gloeophyllum* sp. **Ref:** 3968.

**8578 Gloeophyllol C**

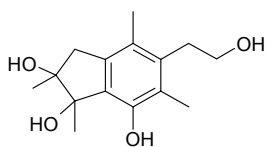
$C_{15}H_{20}O_3$ (248.32). Colorless oil, with no optical activity ($c = 0.6$, $CHCl_3$). **Pharm:** Antifungal inactive (*Mucor miehei*, *Penicillium notatum*, 50μg/filter disc); cytotoxic inactive (HeLa-S3, HL-60, COS-7). **Source:** *Gloeophyllum* sp. **Ref:** 3968.



8579 Gloeophyllol D

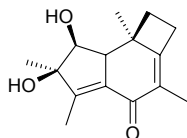
$C_{15}H_{22}O_4$ (266.34). Colorless oil, with no optical activity ($c = 0.4$, $CHCl_3$).

Pharm: Antibacterial inactive (*Bacillus brevis*, *Bacillus subtilis*, *Enterobacter dissolvens*, 100 μ g/filter disc); antifungal (*Mucor miehei*, *Paecilomyces notatum*, *Paecilomyces variotii*, *Nematospora coryli*, 100 μ g/filter disc); cytotoxic inactive (HeLa-S3, HL-60, COS-7). **Source:** *Gloeophyllum* sp. **Ref:** 3968.

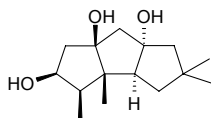
**8580 Gloeophyllone**

$C_{15}H_{20}O_3$ (248.32). Colorless oil, $[\alpha]_D = -140^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:**

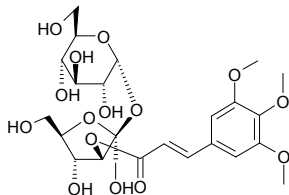
Antibacterial inactive (*Bacillus brevis*, *Bacillus subtilis*, *Enterobacter dissolvens*, 100 μ g/filter disc); antifungal inactive (*Mucor miehei*, *Paecilomyces notatum*, *Paecilomyces variotii*, *Nematospora coryli*, 100 μ g/filter disc); cytotoxic inactive (HeLa-S3, HL-60, COS-7). **Source:** *Gloeophyllum* sp. **Ref:** 3968.

**8581 Gloosteretriol**

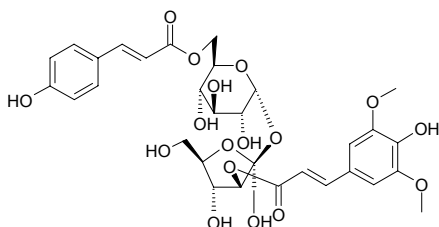
$C_{15}H_{26}O_3$ (254.37). Colorless prismatic Crystals, mp 205~206°C, $[\alpha]_D^{22} = +5.6^\circ$ ($c = 0.115$, methanol). **Source:** YU ER *Gloeostereum incarnatum*. **Ref:** 214.

**8582 Glomeratose A**

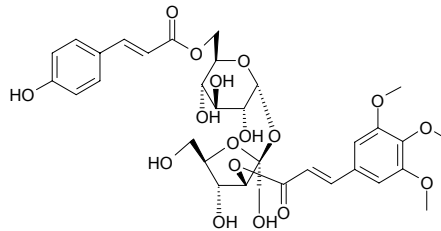
$C_{24}H_{34}O_{15}$ (562.53). $[\alpha]_D = +5.7^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

**8583 Glomeratose B**

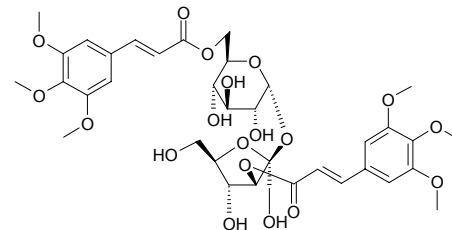
$C_{32}H_{38}O_{17}$ (694.65). $[\alpha]_D = -51.6^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

**8584 Glomeratose C**

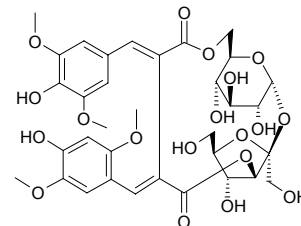
$C_{33}H_{40}O_{17}$ (708.68). $[\alpha]_D = -71.2^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

**8585 Glomeratose D**

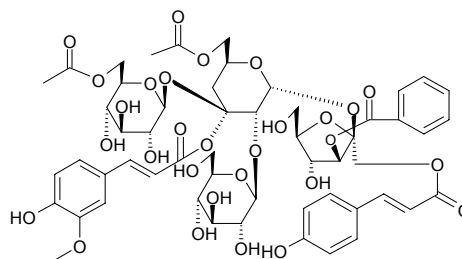
$C_{36}H_{46}O_{19}$ (782.76). $[\alpha]_D = -55.8^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

**8586 Glomeratose E**

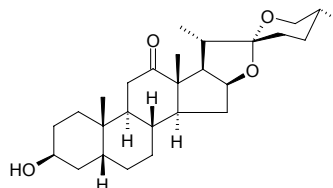
$C_{34}H_{40}O_{19}$ (752.69). $[\alpha]_D = -133.0^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

**8587 Glomeratose F**

$C_{54}H_{64}O_{29}$ (1177.09). $[\alpha]_D = -133.0^\circ$. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. **Ref:** 2184.

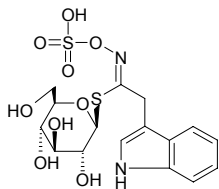
**8588 Gloriogenin**

[38676-82-3] $C_{27}H_{42}O_4$ (430.63). mp 166°C. **Source:** JIAN MA *Agave sisalana*. **Ref:** 2503.

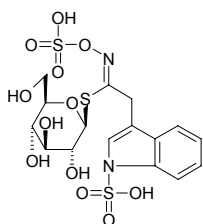


8589 Glucobrassicin

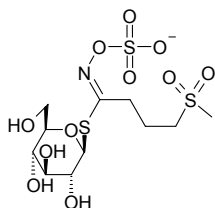
[4356-52-9] $C_{16}H_{20}N_2O_9S_2$ (448.47). Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, DA QING YE *Isatis indigotica*, GAN LAN *Brassica oleracea* var. *capitata*, LAI FU ZI *Raphanus sativus*, OU ZHOU YOU CAI *Brassica napus*. Ref: 2, 1521.

**8590 Glucobrassicin-1-Sulfonate**

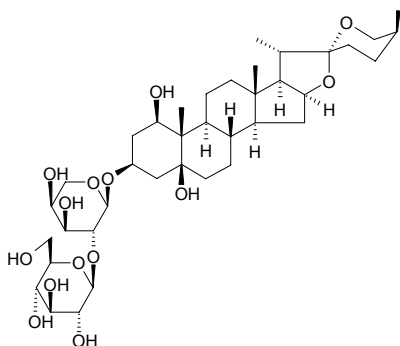
$C_{16}H_{20}N_2O_{12}S_3$ (528.54). Source: DA QING YE *Isatis indigotica*. Ref: 2, 6.

**8591 Glucocheirolin**

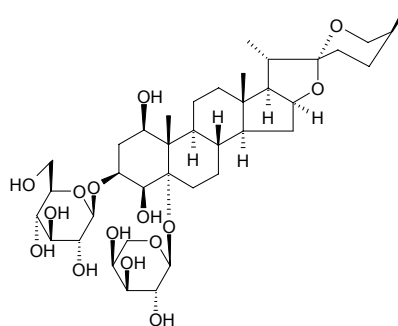
[554-86-9] $C_{11}H_{20}NO_{11}S_3^-$ (438.47). Monohydrate, acicular crystals (90% ethanol), mp 158~160°C, $[\alpha]_D^{27} = -21.56^\circ$ (water). Pharm: Antibacterial. Source: GUI ZHU XIANG *Cheiranthus cheiri*, HUA YE CAI *Brassica oleracea* var. *botrytis*, LA GEN *Armoracia lapathifolia*, WU JING GAN LAN *Brassica napus* var. *napobrassica*. Ref: 661.

**8592 Glucoconvallasaponin A**

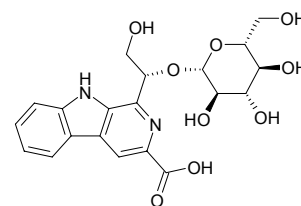
[19316-99-5] $C_{38}H_{62}O_{14}$ (742.91). Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**8593 Glucoconvallasaponin B**

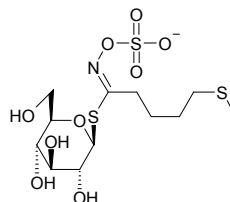
[16939-88-1] $C_{38}H_{62}O_{15}$ (758.91). Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**8594 Glucodichotomine B**

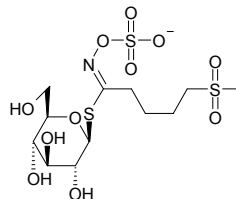
$C_{20}H_{22}N_2O_9$ (434.41). Yellow powder, $[\alpha]_D^{27} = -28.2^\circ$ ($c = 0.20$, MeOH). Pharm: β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, 100 μ mol/L, InRt = (3.2 \pm 1.1)%), control Ketotifen fumarate, InRt = (19.1 \pm 1.3)%^[2571]. Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata* (root: yield = 0.0014%). Ref: 2571.

**8595 Glucoerucin**

[21973-56-8] $C_{12}H_{22}NO_9S_3^-$ (420.50). Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, GAN LAN *Brassica oleracea* var. *capitata*, WU JING GAN LAN *Brassica napus* var. *napobrassica*, ZHI MA CAI *Eruca sativa*. Ref: 658.

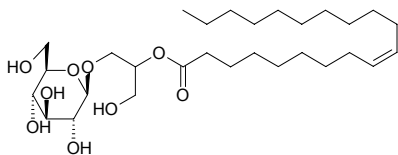
**8596 Glucoerysolin**

[74542-16-8] $C_{12}H_{22}NO_{11}S_3^-$ (452.50). Pharm: Antibacterial (using its ligand erysoline); antifungal (using its ligand erysoline); cytotoxic (animal, using its ligand erysoline). Source: WU JING GAN LAN *Brassica napus* var. *napobrassica*, A FU HAN TANG JIE *Erysimum perofskianum*. Ref: 658.

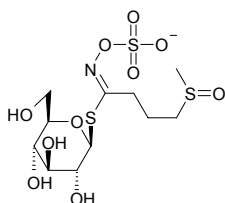


8597 1-O-Gluco-2-O-gadoleic-glyceride

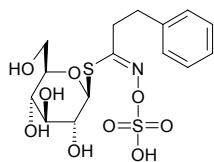
$C_{29}H_{54}O_9$ (546.75). White lamellar solid, mp 177~179°C. Source: CAO SU *Phlomis umbrosa*. Ref: 823.

**8598 Glucoiberin**

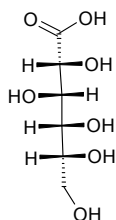
[554-88-1] $C_{11}H_{20}NO_{10}S_3^-$ (422.47). Pharm: Cytotoxic (animal model). Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, GAN LAN *Brassica oleracea* var. *capitata*, HUA YE CAI *Brassica oleracea* var. *botrytis*, LA GEN *Armoracia lapathifolia*, PIE LAN *Brassica oleracea* var. *gongylodes*, QU QU HUA *Iberis amara*, YU YI GAN LAN *Brassica oleracea* var. *sabauda*. Ref: 658.

**8599 Gluconasturtiin**

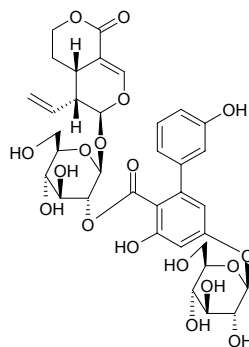
2-Phenylethyl glucosinolate [499-30-9] $C_{15}H_{21}NO_9S_2$ (423.46). Off-white crystals (MeOH-EtOH, as K salt), mp 171°C (K salt), $[\alpha]_D^{20} = -20.7^\circ$ ($c = 1.0$, H₂O). Pharm: Cytotoxic (animal model). Source: BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*], DOU BAN CAI *Nasturtium officinale*, HEI JIE *Brassica nigra*, JIE CAI *Brassica juncea*, JIE ZI *Brassica juncea*, JIA DU XING CAI *Lepidium sativum*, OU ZHOU SHAN JIE *Barbarea vulgaris*. Ref: 658, 1521, 3196.

**8600 Gluconic acid**

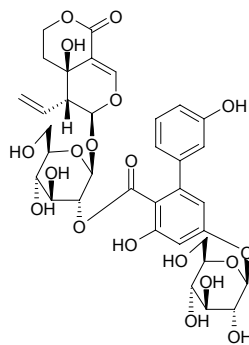
D-Gluconic acid $C_6H_{12}O_7$ (196.16). mp 125~126°C. Source: HE YE *Nelumbo nucifera*. Ref: 6.

**8601 5''-O-β-D-Glucopyranosylamarogentin**

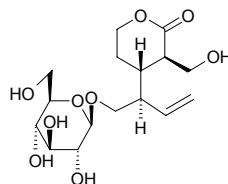
$C_{35}H_{40}O_{18}$ (748.70). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**8602 5''-O-β-D-Glucopyranosylamaroswerin**

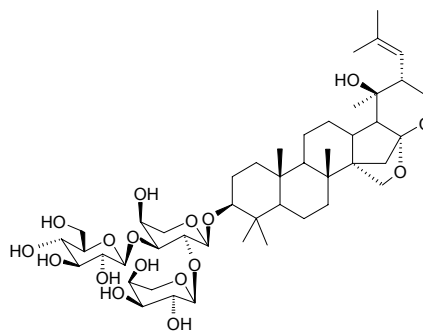
$C_{35}H_{40}O_{19}$ (764.70). Amorphous powder, $[\alpha]_D^{25} = -40.4^\circ$ ($c = 1.3$, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**8603 1-O-β-D-Glucopyranosylamplexin**

[157464-32-9] $C_{16}H_{26}O_9$ (362.38). Source: BAI HUA LONG DAN *Gentiana algida*^[704], LONG DAN *Gentiana scabra* (dried rhizome and root)^[3097], RI BEN ZHANG YA CAI *Swertia japonica*^[2528]. Ref: 704, 2528, 3097.

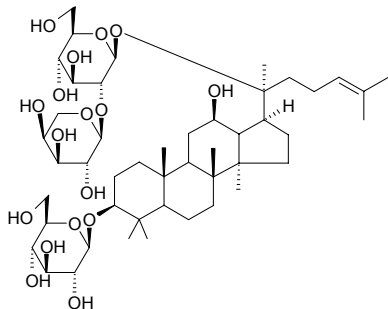
**8604 3-O-[β-D-Glucopyranosyl-(1→3)][α-L-arabinopyranosyl-(1→2)]-α-L-arabinopyranosyl-pseudojubenin**

$C_{46}H_{74}O_{17}$ (899.09). Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.019%fw). Ref: 4664.



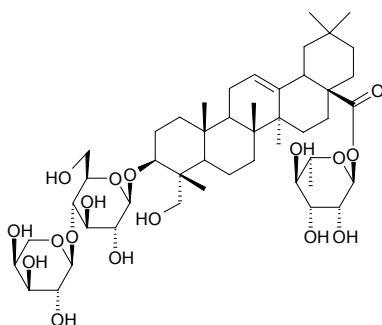
8605 3β-O-β-D-Glucopyranosyl-20-O-[α-L-arabinopyranosyl(1→2)-β-D-glucopyranosyl]3β,12β,20(S)-trihydroxydammar-24-ene

C₄₇H₈₀O₁₇ (917.15). Colorless amorphous powder, mp 189~192°C, [α]_D²¹ = +34.5 (c = 0.08, MeOH). **Pharm:** Inhibits zoospore motility (*Aphanomyces cochlioides*, a causative fungus of spinach root rot). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2387.



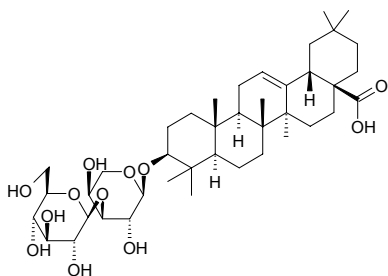
8606 3β-O-β-D-Glucopyranosyl-(1→4)-α-L-arabinopyranosyl hederagenin 28-O-α-L-rhamnopyranosyl ester

C₄₇H₇₆O₁₇ (913.12). Colorless plate crystals (MeOH), mp 237~242°C, [α]_D²⁵ = +33.3° (c = 0.1, MeOH). **Pharm:** Antifungal (*Penicillium avellaneum*, MIA = 8μg/disc, control Amphotericin B, MIA = 0.04μg/disc; *Candida albicans*, MIA = 50μg/disc, control Amphotericin B, MIA = 0.4μg/disc; *Candida glabrata*, MIA = 20μg/disc, Amphotericin B, MIA = 0.8μg/disc; *Saccharomyces cerevisiae*, MIA = 5μg/disc, Amphotericin B, MIA = 3.2μg/disc; *Cryptococcus neoformans*, MIA = 50μg/disc, Amphotericin B, MIA = 0.08μg/disc; *T. beigelii*, MIA = 10μg/disc, Amphotericin B, MIA = 0.8μg/disc; *P. oryzae*, MIA = 10μg/disc, Amphotericin B, MIA = 0.08μg/disc). **Source:** GAN QING TIE XIAN LIAN *Clematis tangutica*. **Ref:** 5413.



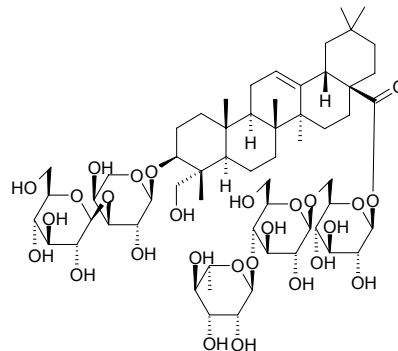
8607 3-O-β-D-Glucopyranosyl(1→3)-α-L-arabinopyranosyl oleanolic acid

C₄₁H₆₆O₁₂ (750.98). White powder (CHCl₃/MeOH), mp 224~226°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. **Ref:** 2455.



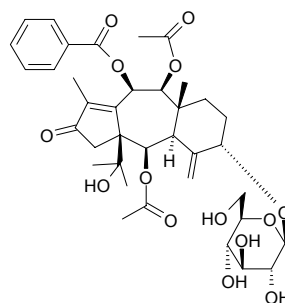
8608 3β-[(O-β-D-Glucopyranosyl-(1→3)-α-L-arabinopyranosyl)oxy]-23-hydroxyolean-12-en-28-oic acid O-α-L-rhamnopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl ester

C₅₉H₉₆O₂₇ (1237.41). **Source:** SAN YE MU TONG *Akebia trifoliata* (stem). **Ref:** 4545.



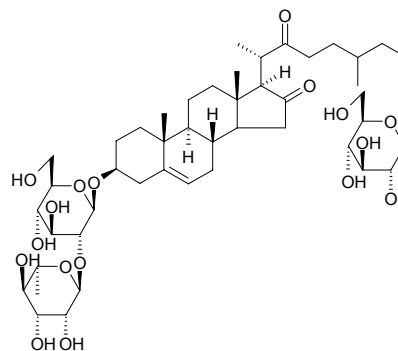
8609 5α-O-(β-D-Glucopyranosyl)-10β-benzoyltaxacustone

C₃₇H₄₈O₁₄ (716.79). mp 178~180°C, [α]_D = -92.6° (CHCl₃). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.



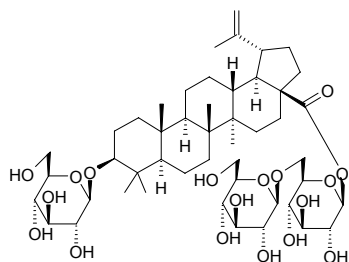
8610 26-O-β-D-Glucopyranosyl-3β,26-dihydroxy-Δ⁵-choleslen-16,22-dioxo-3-O-α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranoside

C₄₅H₇₂O₁₈ (901.06). White powder (MeOH), mp 225~226°C, mp 208~209°C. **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*]. **Ref:** 418, 441.



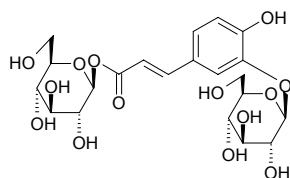
8611 3-O-β-D-Glucopyranosyl betulinic acid-28-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside

C₄₈H₇₈O₁₈ (943.15). White powder, mp 204~206°C, $[\alpha]_D^{20} = -16.9^\circ$ ($c = 0.5$, methanol). Source: DONG BEI CI REN SHEN *Oplopanax elatus*. Ref: 370.



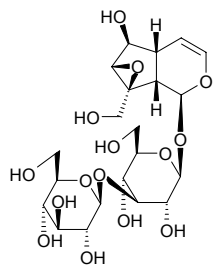
8612 1-O-(3'-O-β-D-Glucopyranosyl)-(E)-caffeoyl-β-D-glucopyranose

C₂₁H₂₈O₁₄ (504.45). Yellow amorphous powder, $[\alpha]_D^{15} = -438.4^\circ$ ($c = 0.5$, MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0026%). Ref: 4101.



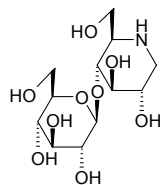
8613 3'-O-β-D-Glucopyranosyl-catalpol

C₂₁H₃₂O₁₅ (524.48). Amorphous powder, $[\alpha]_D^{27} = -74.9^\circ$ ($c = 3.41$, MeOH). Source: CHA RU SHI WAN CUO *Asystasia intrusa*. Ref: 2589.



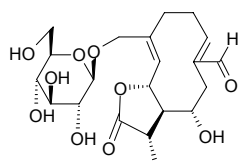
8614 4-O-β-D-Glucopyranosyl-1-deoxyojirimycin

C₁₂H₂₃NO₉ (325.32). Source: *Morus* sp. Ref: 2513.



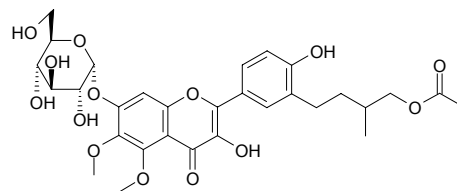
8615 15-O-β-D-Glucopyranosyl-11β,13-dihydrourospermal A

C₂₁H₃₀O₁₀ (442.47). Oil. Source: XU DUAN JU *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*] (root). Ref: 3923.



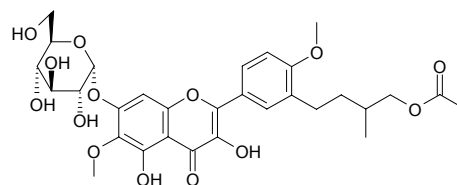
8616 7-O-α-D-Glucopyranosyl-3,4'-dihydroxy-3'-(4''-acetoxy-3''-methylbutyl)-5,6-dimethoxyflavone

C₃₀H₃₆O₁₄ (620.61). Yellowish gummy solid, $[\alpha]_D^{24} = +14.2^\circ$ ($c = 0.07$, MeOH). Pharm: α-Glucosidase inhibitor inactive. Source: JIA LIAN QIAO YE *Duranta repens*. Ref: 4050.



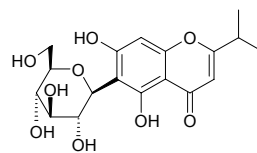
8617 7-O-α-D-Glucopyranosyl-3,5-dihydroxy-3'-(4''-acetoxy-3''-methylbutyl)-6,4'-dimethoxyflavone

C₃₀H₃₆O₁₄ (620.61). Yellowish gummy solid, $[\alpha]_D^{24} = +27^\circ$ ($c = 0.1$, MeOH). Pharm: α-Glucosidase inhibitor (IC₅₀ = (65.5±2.5)μmol/L, control Deoxyojirimycin, IC₅₀ = (425.6±8.1)μmol/L). Source: JIA LIAN QIAO YE *Duranta repens*. Ref: 4050.



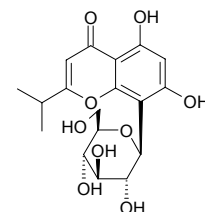
8618 6β-C-Glucopyranosyl-5,7-dihydroxy-2-isopropylchromone

C₁₈H₂₂O₉ (382.37). Colorless needles, mp 142~145°C, $[\alpha]_D^{21} = +37.4^\circ$ ($c = 0.51$, MeOH). Source: GANG SONG *Baeckea frutescens*. Ref: 1895.



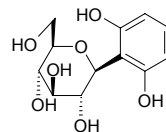
8619 8β-C-Glucopyranosyl-5,7-dihydroxy-2-isopropylchromone

C₁₈H₂₂O₉ (382.37). Colorless needles, mp 145~153°C, $[\alpha]_D^{21} = +6.08^\circ$ ($c = 1.05$, MeOH). Source: GANG SONG *Baeckea frutescens*. Ref: 1895.



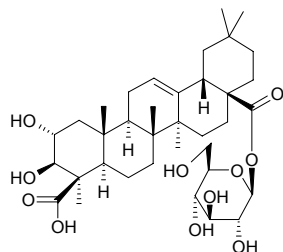
8620 C-β-D-Glucopyranosyl-2,6-dihydroxyl benzene

C₁₂H₁₆O₇ (272.26). Source: NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). Ref: 3789.



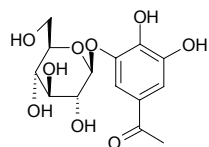
8621 28-O-β-D-Glucopyranosyl-2α-3β-dihydroxyolean-12-ene-24,28-dioic acid

C₃₆H₅₆O₁₁ (664.84). **Pharm:** Tissue factor inhibitor (IC₅₀ = 0.036 mmol/L/Unit of TF). **Source:** MU GUA *Chaenomeles sinensis*. **Ref:** 5387.



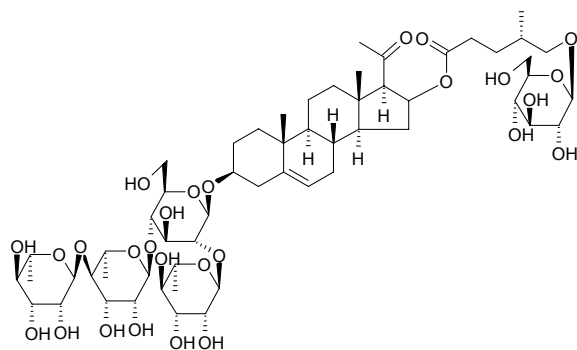
8622 1-(3-O-β-D-Glucopyranosyl-4,5-dihydroxyphenyl)-ethanone

C₁₄H₁₈O₉ (330.29). **Source:** HU ZHANG *Polygonum cuspidatum*. **Ref:** 4186.



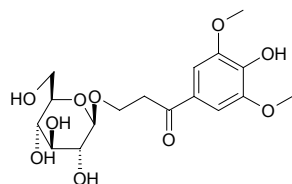
8623 26-O-β-D-Glucopyranosyl-3β,26-dihydroxy-20,22-seco-25(R)-furost-5-en-20,22-dione-3-O-α-L-rhamnopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→4)-[α-L-rhamnopyranosyl-(1→2)]-β-D-glucopyranoside

C₅₇H₉₂O₂₇ (1209.35). White amorphous powder. **Pharm:** Antifungal inactive (*Candida albicans*, *Candida glabrata*, *Candida tropicalis*, MIC > 200 μg/mL). **Source:** YUAN SHU YU *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*]. **Ref:** 2560.



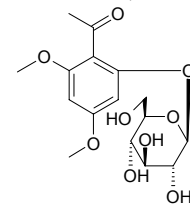
8624 3-O-(β-D-Glucopyranosyl)-1-(3',5'-dimethoxy-4'-hydroxyphenyl)-1-propanone

C₁₇H₂₄O₁₀ (388.37). White powder. **Source:** XIAO YE SHI NAN *Photinia parvifolia* (stem). **Ref:** 4553.



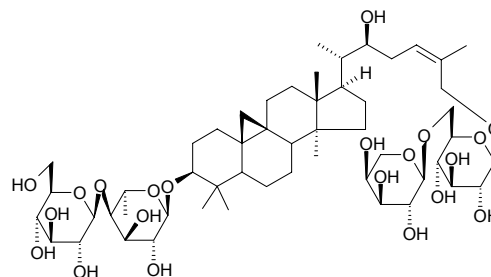
8625 2-O-(2)-β-D-Glucopyranosyl-4,6-dimethoxy phenylenthanone

C₁₆H₂₂O₉ (358.35). White powder. **Source:** YAN SHENG JIA MU ZEI *Anabasis salsa*, DUAN YE JIA MU ZEI *Anabasis brevifolia*. **Ref:** 4861.



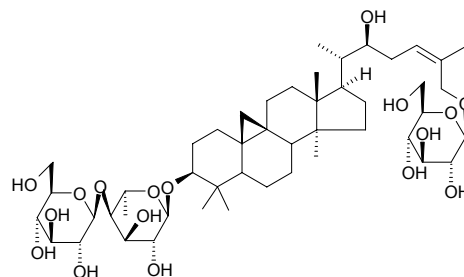
8626 3-O-β-D-Glucopyranosyl-(1→4)-β-D-fucopyranosyl (22S,24Z)-cycloart-24-en-3β,22,26-triol 26-O-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranoside

C₅₃H₈₈O₂₁ (1061.28). White powder, [α]_D = 26.4° (c = 0.025, MeOH). **Source:** HUA DONG TANG SONG CAO *Thalictrum fortunei* (aerial parts: yield = 0.0040% dw). **Ref:** 911.



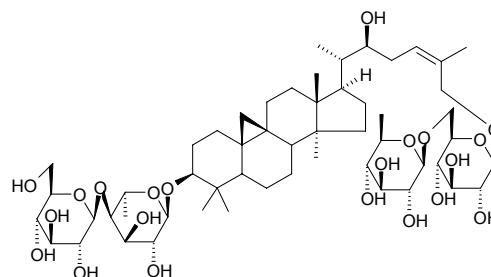
8627 3β-O-β-D-Glucopyranosyl-(1→4)-β-D-fucopyranosyl (22S,24Z)-cycloart-24-en-3β,22,26-triol 26-O-β-D-glucopyranoside

C₄₈H₈₀O₁₇ (929.16). White powder, [α]_D = 7.40° (c = 0.14, MeOH). **Source:** HUA DONG TANG SONG CAO *Thalictrum fortunei* (aerial parts: yield = 0.0048% dw). **Ref:** 911.



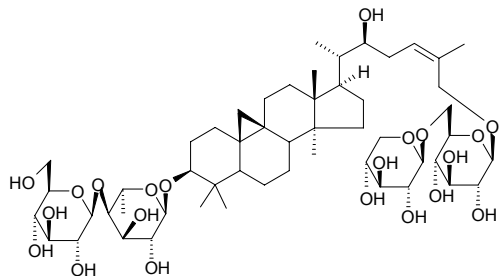
8628 3-O-β-D-Glucopyranosyl-(1→4)-β-D-fucopyranosyl (22S,24Z)-cycloart-24-en-3β,22,26-triol 26-O-β-D-quinovopyranosyl-(1→6)-β-D-glucopyranoside

C₅₄H₉₀O₂₁ (1075.31). White powder, [α]_D = 3.58° (c = 0.12, MeOH). **Source:** HUA DONG TANG SONG CAO *Thalictrum fortunei* (aerial parts: yield = 0.0025% dw). **Ref:** 911.



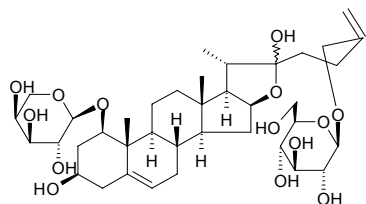
8629 3-O-β-D-Glucopyranosyl-(1→4)-β-D-fucopyranosyl (22S,24Z)-cycloart-24-en-3β,22,26-triol 26-O-β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside

C₅₃H₈₈O₂₁ (1061.28). White powder, [α]_D²⁰ = -2.91° (c = 0.28, MeOH). Source: HUA DONG TANG SONG CAO *Thalictrum fortunei* (aerial parts: yield = 0.0017%dw). Ref: 911.



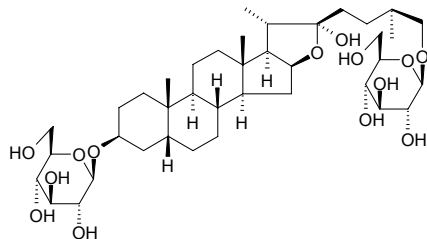
8630 26-O-β-D-Glucopyranosyl-furostan-5,25(27)-diene-1β,3β,22β,26-tetrahydroxy-1-O-α-L-arabinopyranoside

C₃₈H₆₀O₁₄ (740.89). White powder. Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 2114.



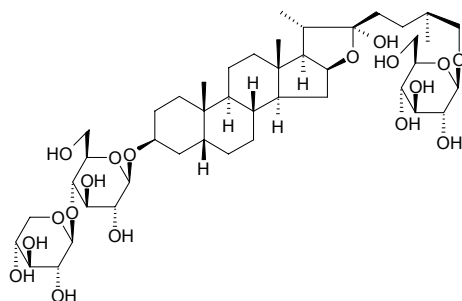
8631 26-O-β-D-Glucopyranosylfurostane-3β,26-diol-3-O-β-D-glucopyranoside

C₃₉H₆₆O₁₄ (758.95). [α]_D²¹ = -48.0° (c = 1.00, MeOH). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.



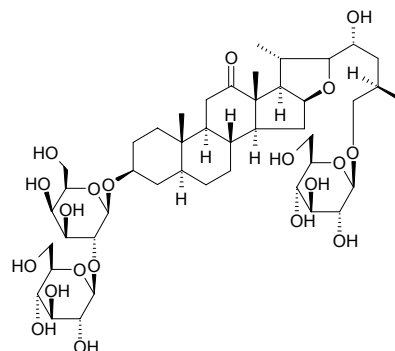
8632 26-O-β-D-Glucopyranosylfurostane-3β,26-diol-3-O-β-D-xylopyranosyl(1→4)-β-D-glucopyranoside

C₄₄H₇₄O₁₈ (891.07). [α]_D²¹ = -29.5° (c = 0.75, MeOH). Pharm: Cytotoxic (*in vitro*, HO-8910, IC₅₀ > 226 μmol/L, Vincristine, IC₅₀ = (25.1 ± 1.9) μmol/L; Bel7405, IC₅₀ > 226 μmol/L, Vincristine, IC₅₀ = (31.4 ± 3.4) μmol/L). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.



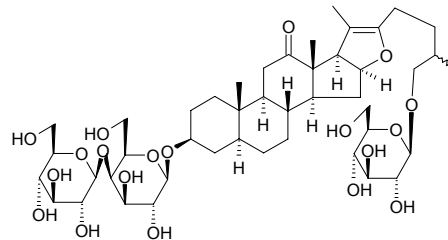
8633 26-O-β-D-Glucopyranosyl(25R)-5α-furostane-12-one-3β,22α,26-triol-3-O-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside

C₄₅H₇₄O₂₀ (935.08). White powder, [α]_D¹⁵ = -15° (c = 0.2, pyridine). Pharm: Enhances sex drive; inhibits onset of senility; treatment of angiocardiopathy. Source: CI JI LI *Tribulus terrestris*. Ref: 688.



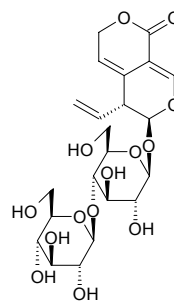
8634 26-O-β-D-Glucopyranosyl(25R,S)-5α-furostane-12-one-20(22)-en-3β,26-diol-3-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside

C₄₅H₇₂O₁₉ (917.06). White powder, [α]_D¹⁵ = +5° (c = 0.2, pyridine). Pharm: Enhances sex drive; inhibits onset of senility; treatment of angiocardiopathy. Source: CI JI LI *Tribulus terrestris*. Ref: 688.



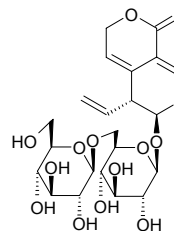
8635 4'-O-β-D-Glucopyranosylgentiopicroside

C₂₂H₃₀O₁₄ (518.48). Source: LONG DAN *Gentiana scabra* (dried rhizome and root). Ref: 3097.



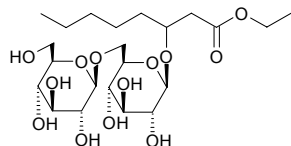
8636 6'-O-β-D-Glucopyranosylgentiopicroside

[115713-06-9] C₂₂H₃₀O₁₄ (518.48). Source: LONG DAN *Gentiana scabra* (dried rhizome and root)^[3097], QIN JIAO *Gentiana macrophylla*, RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 707, 2573, 3097.



8637 3-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside of ethyl 3-hydroxyoctanoate

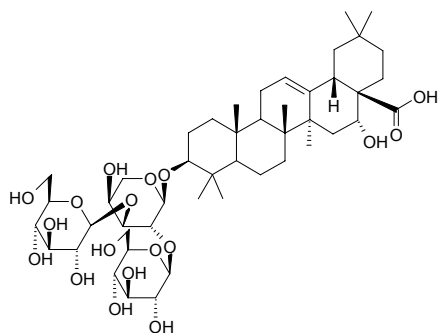
C₂₂H₄₀O₁₃ (512.56). Source: DENG LONG CAO *Physalis peruviana*. Ref: 1997.



8638 3 β -O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]-[β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl echinocystic acid

C₄₇H₇₆O₁₈ (929.12). Amorphous powder, $[\alpha]_D^{23} = +19.5^\circ$ ($c = 0.94$, MeOH).

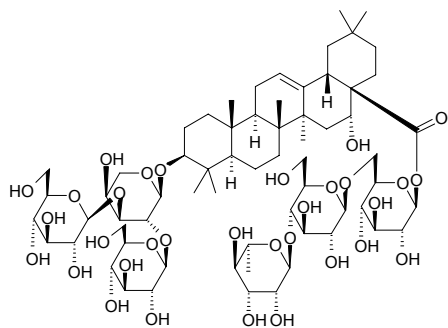
Source: *Dizygotheca kerchoveana* (stem and leaf of branch). Ref: 3885.



8639 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]-[β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl echinocystic acid 28-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl] ester

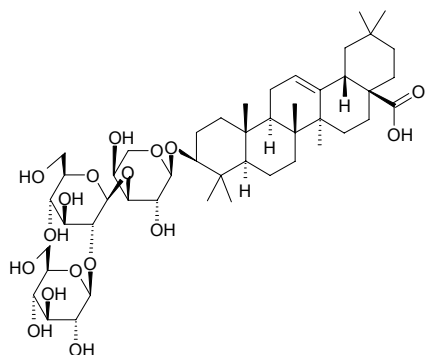
C₆₅H₁₀₆O₃₂ (1399.55). Amorphous powder, $[\alpha]_D^{23} = -13.0^\circ$ ($c = 0.94$, MeOH).

Source: *Dizygotheca kerchoveana* (stem and leaf of branch). Ref: 3885.



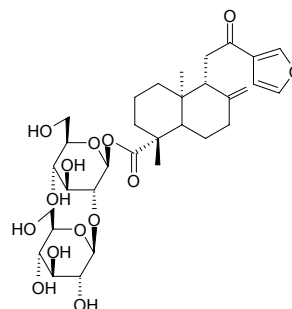
8640 3 β -[(O- β -D-Glucopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 3)]- α -L-arabinopyranosyl]oxy]olean-12-en-28-oic acid

C₄₇H₇₆O₁₇ (913.12). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



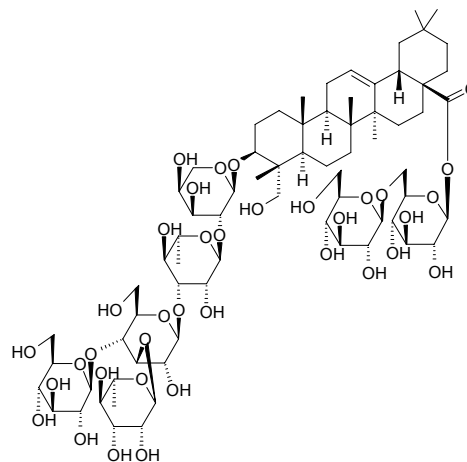
8641 β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-15,16-epoxy-12-oxo-8(17),13(16)-14-*ent*-labdatrien-19-oate

C₃₂H₄₆O₁₄ (654.72). Yellow gum, $[\alpha]_D^{25} = -2.0^\circ$ ($c = 0.25$, CH₃OH). Source: BI CHI YAN ZI CAI *Potamogeton pectinatus*. Ref: 3849.



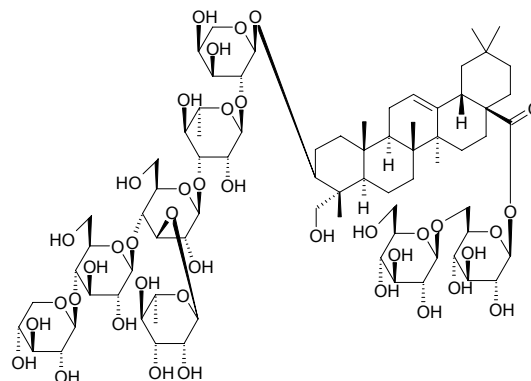
8642 28-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester of 3-O-[β -D-glucopyranosyl-(1 \rightarrow 4)] [α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl-hederagenin

C₇₁H₁₁₆O₃₆ (1545.69). White powder, mp 224–227°C, $[\alpha]_D^{21} = -17.4^\circ$ ($c = 0.25$, MeOH). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 265.



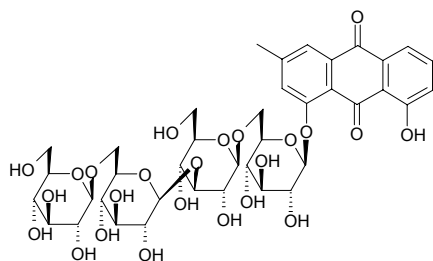
8643 28-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester of 3-O-[β -D-xylopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 4)] [α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl-hederagenin

C₇₆H₁₂₄O₄₀ (1677.81). White powder, mp 236–240°C (methanol–acetic ester), $[\alpha]_D^{21} = -21.8^\circ$ ($c = 0.24$, methanol). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 249.



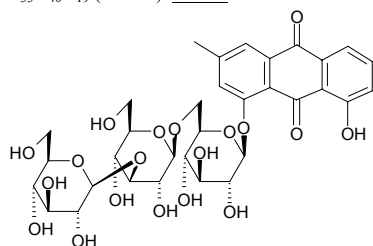
8644 1-[(β -D-Glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl)oxy]-8-hydroxy-3-methyl-9,10-anthraquinone

C₃₉H₅₀O₂₄ (902.82). Source: JUE MING ZI *Cassia tora*. Ref: 2.



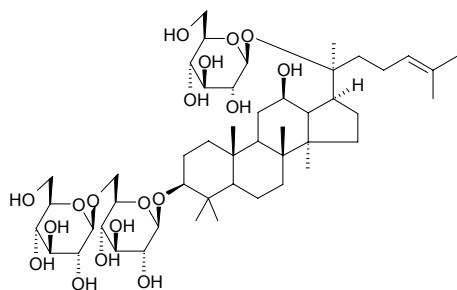
8645 1-[(β -D-Glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl)oxy]-8-hydroxy-3-methyl-9,10-anthraquinone

C₃₃H₄₀O₁₉ (740.68). Source: JUE MING ZI *Cassia tora*. Ref: 2.



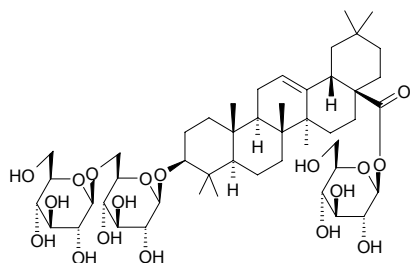
8646 3-O-[(β -D-Glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl]-20-O- β -D-glucopyranosyl-3 β ,12 β ,20(S)-trihydroxydammar-24-ene

C₄₈H₈₂O₁₈ (947.18). Colorless amorphous powder, mp 190~194°C, [α]_D²¹ = +13.2 (c = 0.45, MeOH). Pharm: Inhibits zoospore motility (*Aphanomyces cochlioides*, a causative fungus of spinach root rot)^[2387]. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2387.



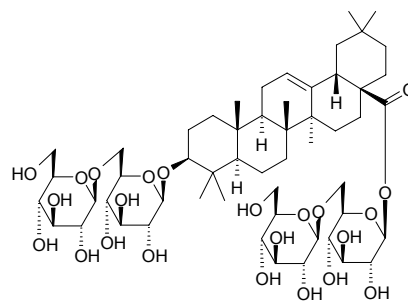
8647 3-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl oleanolic acid 28-O- β -D-glucopyranosyl ester

C₄₈H₇₈O₁₈ (943.15). Amorphous powder, mp 202~209°C, [α]_D²⁰ = -6.5° (c = 0.11, MeOH). Source: CHI GENG TENG *Gymnema sylvestris*. Ref: 766.



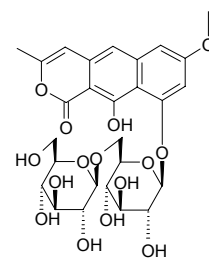
8648 3-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl oleanolic acid 28- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester

C₅₄H₈₈O₂₃ (1105.29). Amorphous powder, mp 209~211°C, [α]_D²⁰ = -12.1° (c = 0.12, MeOH). Source: CHI GENG TENG *Gymnema sylvestris*. Ref: 766.



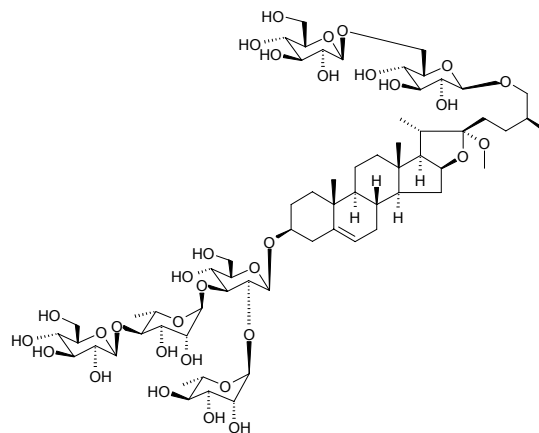
8649 9-[(β -D-Glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl)oxy]-10-hydroxy-7-methoxy-3-methyl-1*H*-naphthol[2,3-*c*]pyran-1-one

Cassiaside C; Toralactone 9-gentiobioside [119170-52-4] C₂₇H₃₂O₁₅ (596.55). Source: DUN YE JUE MING *Cassia obtusifolia*, JUE MING ZI *Cassia tora*. Ref: 2, 2081.



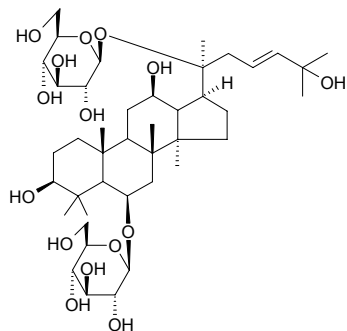
8650 (25*S*)-26-[(O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[O- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside

C₆₄H₁₀₆O₃₂ (1387.54). Amorphous solid, [α]_D²⁵ = -54.0° (c = 0.10, CHCl₃: MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00090%dw). Ref: 4648.



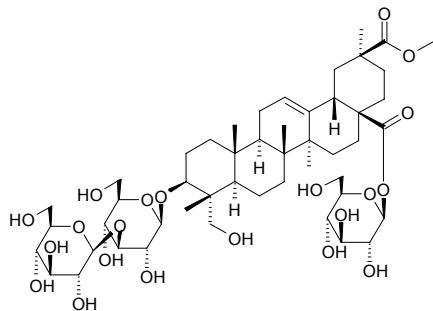
8651 6-O-β-D-Glucopyranosyl-20-O-β-D-glucopyranosyl-3β,6α,12β,20(S),25-pentahydroxydammar-23-ene

C₄₂H₇₂O₁₅ (817.03). Colorless amorphous powder, mp 208~212°C, [α]_D²¹ = +31.2° (c = 0.25, MeOH). **Pharm:** Inhibits zoospore motility (*Aphanomyces cochlioides*, a causative fungus of spinach root rot). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2387.



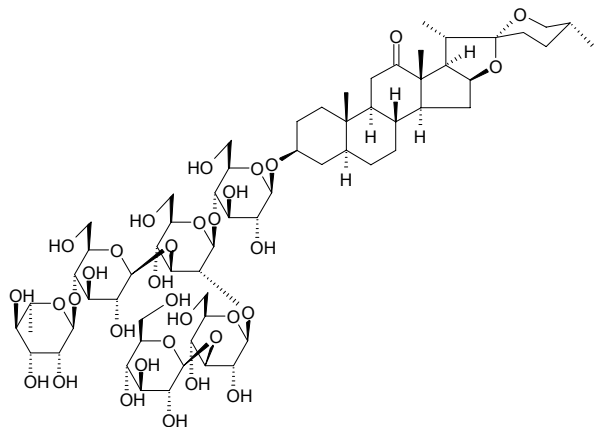
8652 3-O-[β-D-Glucopyranosyl-(1→3)-β-D-glucopyranosyl] phytolaccagenic acid 28-O-β-D-glucopyranosyl ester

C₄₉H₇₈O₂₁ (1003.16). mp 214~218°C, [α]_D²⁵ = +48.3° (c = 0.65, MeOH). **Source:** CANG BAI CHENG GOU FENG *Diploclisia glaucescens*. **Ref:** 2054.



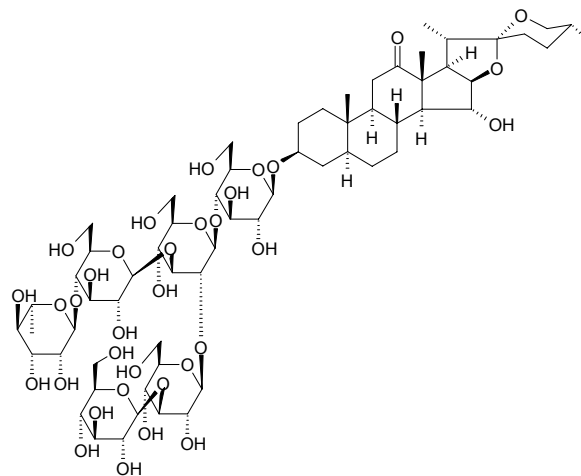
8653 (25R)-3β-[(O-β-D-Glucopyranosyl-(1→3)-O-β-D-glucopyranosyl-(1→2)-O-[O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl)oxy]-5α-spirostan-12-one

C₆₃H₁₀₂O₃₃ (1387.50). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 2.2μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 2.4μg/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



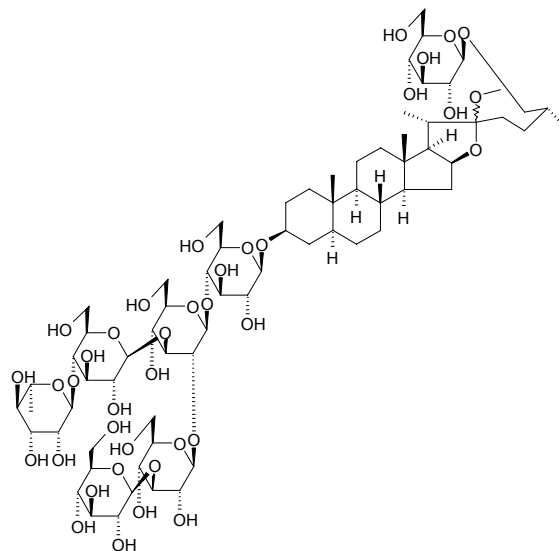
8654 (25R)-3β-[(O-β-D-Glucopyranosyl-(1→3)-O-β-D-glucopyranosyl-(1→2)-O-[O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl)oxy]-15α-hydroxy-5α-spirostan-12-one

C₆₃H₁₀₂O₃₄ (1403.49). Amorphous solid, [α]_D²⁵ = -34.0° (c = 0.10, MeOH). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 35μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 34μg/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



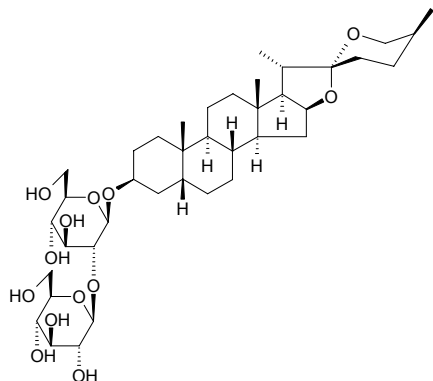
8655 (25R)-3β-[(O-β-D-Glucopyranosyl-(1→3)-O-β-D-glucopyranosyl-(1→2)-O-[O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl)oxy]-22ξ-methoxy-5α-furostan-26-yl β-D-glucopyranoside

C₇₀H₁₁₈O₃₈ (1567.70). Amorphous solid, [α]_D²⁵ = -44.0° (c = 0.10, MeOH). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 4.7μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 34μg/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



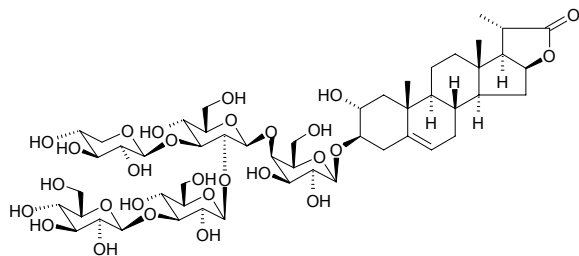
8656 3-O- β -D-Glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl]-(25S)-5 β -spirostan-3 β -ol

C₃₉H₆₄O₁₃ (740.94). $[\alpha]_D^{21} = -60.9^\circ$ ($c = 1.00$, C₅H₅N). **Pharm:** Cytotoxic (*in vitro*, HO-8910, IC₅₀ = (5.8 \pm 0.4) μ mol/L, Vincristine, IC₅₀ = (25.1 \pm 1.9) μ mol/L; Bel7405, IC₅₀ = (5.9 \pm 0.4) μ mol/L, Vincristine, IC₅₀ = (31.4 \pm 3.4) μ mol/L). **Source:** GE BI TIAN MEN *Asparagus gobicus* (root). **Ref:** 4975.



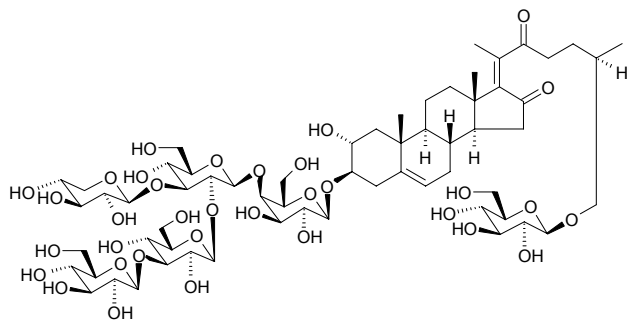
8657 3 β -[(O- β -D-Glucopyranosyl(1 \rightarrow 3)-O- β -D-glucopyranosyl(1 \rightarrow 2)-O- β -D-xylopyranosyl(1 \rightarrow 3))-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranosyl)-oxy]-2 α ,16 β -dihydroxypregn-5-ene-20-carboxylic acid γ -lactone

C₅₁H₈₀O₂₈ (1141.19). Amorphous powder, $[\alpha]_D^{28} = -54.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ > 300 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0014%fw). **Ref:** 4667.



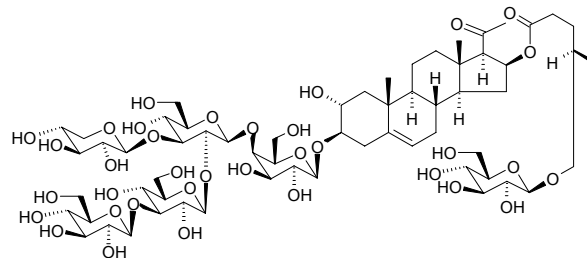
8658 (25R)-3 β -[(O- β -D-Glucopyranosyl(1 \rightarrow 3)-O- β -D-glucopyranosyl(1 \rightarrow 2)-O- β -D-xylopyranosyl(1 \rightarrow 3))-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranosyl)-oxy]-26-[(β -D-glucopyranosyl)oxy]-2 α -hydroxycholesta-5,17-diene-16,22-dione

C₆₂H₉₈O₃₄ (1387.45). Amorphous powder, $[\alpha]_D^{29} = -76.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ = 281 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0088%fw). **Ref:** 4667.



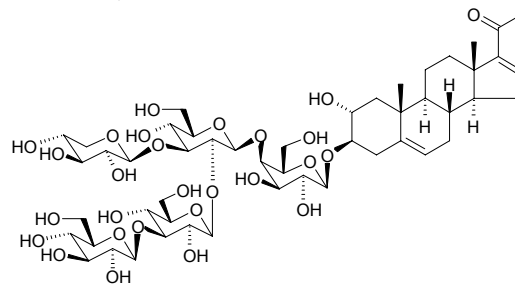
8659 3 β -[(O- β -D-Glucopyranosyl(1 \rightarrow 3)-O- β -D-glucopyranosyl(1 \rightarrow 2)-O- β -D-xylopyranosyl(1 \rightarrow 3))-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-16 β -[(4R)-5-(β -D-glucopyranosyloxy)-4-methyl-1-oxopentyl]oxy]-2 α -hydroxypregn-5-en-20-one

C₆₂H₁₀₀O₃₅ (1405.47). Amorphous powder, $[\alpha]_D^{29} = -50.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ > 300 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0026%fw). **Ref:** 4667.



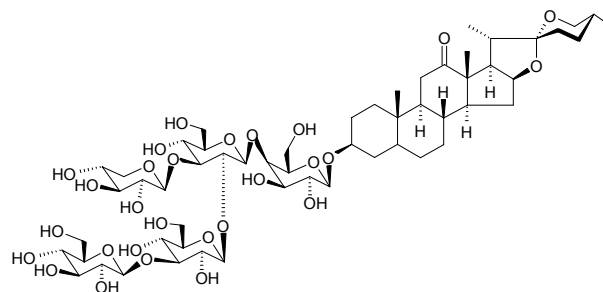
8660 3 β -[(O- β -D-Glucopyranosyl(1 \rightarrow 3)-O- β -D-glucopyranosyl(1 \rightarrow 2)-O- β -D-xylopyranosyl(1 \rightarrow 3))-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-2 α -hydroxypregna-5,16-dien-20-one

C₅₀H₇₈O₂₇ (1111.16). Amorphous powder, $[\alpha]_D^{28} = -42.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ = 192 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0082%fw). **Ref:** 4667.



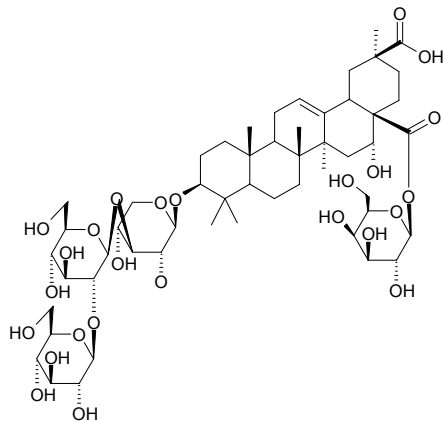
8661 (25R)-3 β -[(O- β -D-Glucopyranosyl(1 \rightarrow 3)-O- β -D-glucopyranosyl(1 \rightarrow 2)-O- β -D-xylopyranosyl(1 \rightarrow 3))-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-5 α -spirostan-12-one

C₅₆H₉₀O₂₈ (1211.32). Amorphous solid, $[\alpha]_D^{26} = -30.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, IC₅₀ = 5.9 μ g/mL; HSC-2, IC₅₀ = 1.5 μ g/mL; control Etoposide: HL-60, IC₅₀ = 0.3 μ g/mL; HSC-2, IC₅₀ = 24.4 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (underground part; yield = 0.0065%dw). **Ref:** 4651.



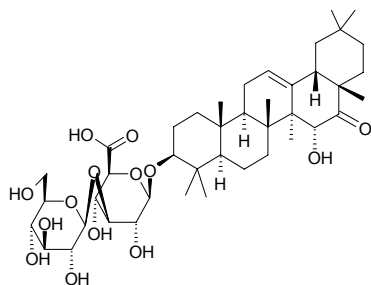
8662 3β-O-(β-Glucopyranosyl-(1→2)-β-glucopyranosyl(1→3)-β-xylopyranosyl)-16α-hydroxyolean-12-en-28-O-(β-galactopyranosyl) ester-30-oic acid

C₅₃H₈₄O₂₅ (1121.25). White amorphous powder, $[\alpha]_D^{25} = +18^\circ$ ($c = 1$, MeOH). **Pharm:** Antiproliferative (*in vitro*, J774 cell line, IC₅₀ = 0.20 μmol/L, control 6-Mercaptopurine, IC₅₀ = 0.003 μmol/L; HEK-293, IC₅₀ = 0.15 μmol/L, 6-Mercaptopurine, IC₅₀ = 0.007 μmol/L; WEHI-164, IC₅₀ = 0.24 μmol/L, 6-Mercaptopurine, IC₅₀ = 0.017 μmol/L). **Source:** *Schefflera faguetai*. **Ref:** 5436.



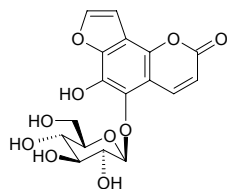
8663 3-O-[β-D-Glucopyranosyl-(1→3)-O-β-D-glucuronopyranosyl]-15-α-hydroxyolean-12-en-16-one

C₄₂H₆₆O₁₄ (794.99). White amorphous powder, mp 248–250°C. **Source:** YUN NAN GE TENG *Pueraria peduncularis*. **Ref:** 853.



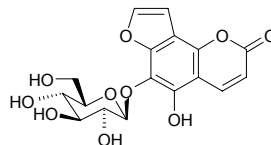
8664 5-O-β-D-Glucopyranosyl-6-hydroxyangelicin

C₁₇H₁₆O₁₀ (380.31). Light yellow amorphous powder, $[\alpha]_D^{20} = +4.1^\circ$ ($c = 0.15$, pyridine). **Pharm:** Anti-inflammatory (antiproliferation, hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC₅₀ = 33.4 μmol/L; control Cyclosporine, IC₅₀ = 12 nmol/L). **Source:** LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf: yield = 0.00454%fw). **Ref:** 4794.



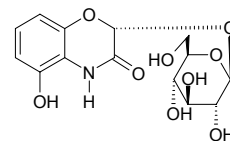
8665 6-O-β-D-Glucopyranosyl-5-hydroxyangelicin

C₁₇H₁₆O₁₀ (380.31). Light yellow amorphous powder, $[\alpha]_D^{20} = -40.0^\circ$ ($c = 0.04$, pyridine). **Pharm:** Antiproliferation inactive (hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100 μmol/L; control Cyclosporine, IC₅₀ = 12 nmol/L). **Source:** LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf: yield = 0.0012%fw). **Ref:** 4794.



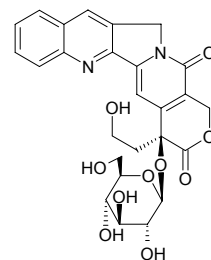
8666 (2R)-2-O-β-D-Glucopyranosyl-5-hydroxy-2H-1,4-benzoxazin-3(4H)-one

C₁₄H₁₇NO₉ (343.29). Amorphous powder, $[\alpha]_D^{26} = +95.0^\circ$ ($c = 0.40$, DMSO). **Source:** LAO SHU LE *Acanthus ilicifolius* (aerial parts). **Ref:** 5204.



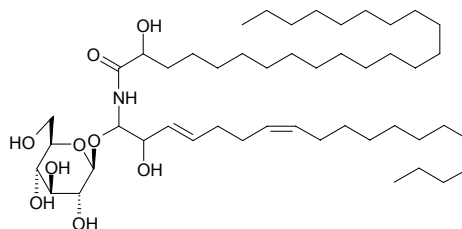
8667 20-O-β-Glucopyranosyl 18-hydroxycamptothecin

C₂₆H₂₆N₂O₁₀ (526.50). **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 4097.



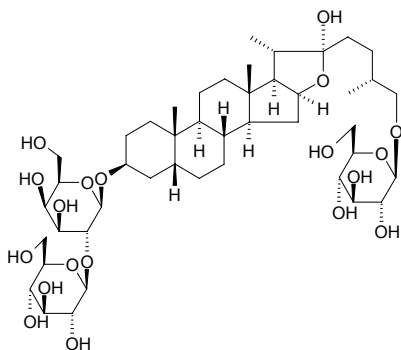
8668 1-O-β-D-Glucopyranosyl-(2S,3R,4E,8Z)-2-N-(2'-hydroxydocosanyl) eicosasphinga-4,8-dienine

C₄₈H₉₁NO₉ (826.26). White powder. **Source:** XIAO YE GUAN ZHONG *Matteuccia struthiopteris* (rhizome). **Ref:** 4862.



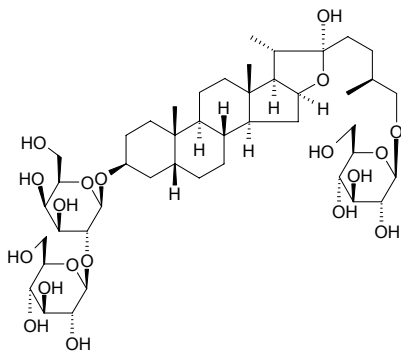
8669 (25R)-26-O-β-D-Glucopyranosyl-22-hydroxy-5β-furostane-3β,26-diol 3-O-β-D-glucopyranosyl-(1→2)-O-β-D-galactopyranoside

C₄₅H₇₆O₁₉ (921.10). White powder, mp 194–196°C [α]_D²⁵ = –31.5° (c = 0.001, H₂O). **Pharm:** Cytotoxic (SF268 and NCI-H460 cancer cells, EC = 25 μg/mL; HepG2 cells, inactive). **Source:** XIE BAI *Allium macrostemon*. **Ref:** 4897.



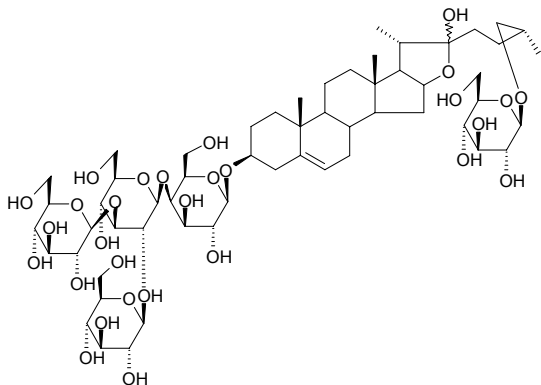
8670 (25S)-26-O-β-D-Glucopyranosyl-22-hydroxy-5β-furostane-3β,26-diol 3-O-β-D-glucopyranosyl-(1→2)-O-β-D-galactopyranoside

C₄₅H₇₆O₁₉ (921.10). **Pharm:** Cytotoxic (SF268 and NCI-H460 cancer cells, EC = 25 μg/mL; HepG2 cells, inactive). **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2.



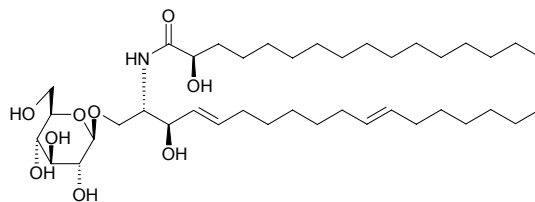
8671 (25R)-26-O-β-D-Glucopyranosyl-22-hydroxy-furost-5(6)-ene-3β,26-diol-3-O-β-D-glucopyranosyl-(1→2)-[β-D-glucopyranosyl(1→3)]-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside

C₅₇H₉₄O₂₉ (1243.37). White powder, mp 223–225°C [α]_D²⁷ = –32.7° (c = 0.098, H₂O). **Pharm:** Cytotoxic (SF268 cells, EC = 25 μg/mL, NCI-H460 cells, EC = 25 μg/mL, HepG2 cells, inactive). **Source:** XIE BAI *Allium macrostemon*. **Ref:** 4897.



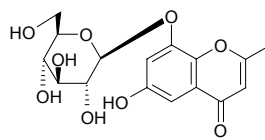
8672 1-O-β-D-Glucopyranosyl-(2S,3R,4E,11E)-2-(2'R-hydroxyhexadecenoynlamino)-4,11-octadecadiene-1,3-diol

C₄₀H₇₅NO₉ (714.05). White amorphous powder, mp 136–138°C, [α]_D²⁵ = –6.0° (c = 0.5, MeOH). **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 20 μg/mL, control Penicillin G, MIC = 0.80 μg/mL; *Staphylococcus aureus*, MIC = 50 μg/mL, control Penicillin G, MIC = 0.34 μg/mL)^[3472]; antifungal (*Aspergillus niger*, MIC = 30 μg/mL, control Ketoconazole, MIC = 0.90 μg/mL; *Candida albicans*, MIC = 10 μg/mL, control Ketoconazole, MIC = 0.65 μg/mL). **Source:** BAN XIA *Pinellia ternata*. **Ref:** 3472.



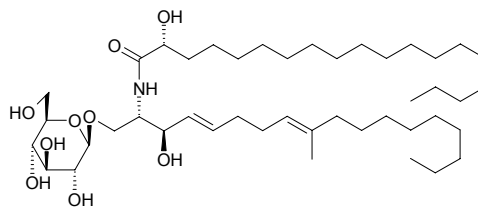
8673 8-O-β-D-Glucopyranosyl-6-hydroxy-2-methyl-4H-1-benzopyran-4-one

C₁₆H₁₈O₉ (354.32). White powder, [α]_D²⁵ = –75.1° (c = 0.056, MeOH). **Pharm:** Tyrosinase inhibitor (IC₅₀ = (256.97±0.96) μmol/L, control Kojic acid, IC₅₀ = (16.67±0.52) μmol/L, L-Mimosine, IC₅₀ = (3.68±0.02) μmol/L). **Source:** A FU HAN DU JUAN HUA *Rhododendron collettianum*. **Ref:** 2544.



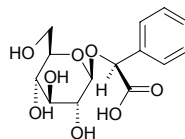
8674 1-O-(β-D-Glucopyranosyl)-(2S,3R,4E,8E)-2-[(2'R)-2'-hydroxy-nonadecanoylamino]-9-methyl-4,8-octadecadiene-1,3-diol

C₄₄H₈₃NO₉ (770.15). Colorless solid, mp 218–220°C, [α]_D²⁸ = –13.2° (c = 0.05, CHCl₃). **Source:** *Lobophytum* sp. **Ref:** 4432.



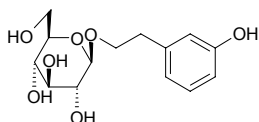
8675 (2S)-2-O-β-D-Glucopyranosyl-2-hydroxyphenylacetic acid

C₁₄H₁₈O₈ (314.29). Colorless oil, [α]_D = +6°. **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, StRt or InRt < 10%, 1 mmol/L, StRt or InRt < 10%; *Raphanus sativus*, 1 μmol/L, InRt = (10–30)%, 10 μmol/L, InRt = (10–30)%, 100 μmol/L, InRt = (10–30)%, 1 mmol/L, InRt = (10–30)%; *Allium cepa*, 1 μmol/L, InRt = (10–30)%, 10 μmol/L, InRt = (10–30)%, 100 μmol/L, InRt = (10–30)%, 1 mmol/L, InRt = (31–60)%). **Source:** XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 5217.

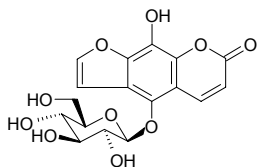


8676 1-O-β-D-Glucopyranosyl-2-(3-hydroxyphenyl)-ethanol

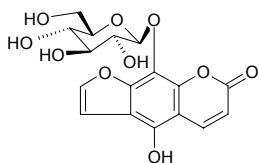
C₁₄H₂₀O₇ (300.31). Colorless oil. **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, StRt = (31–60)%, 1 mmol/L, StRt = (31–60)%; *Raphanus sativus*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, InRt = (10–30)%, 100 μmol/L, InRt = (10–30)%, 1 mmol/L, InRt = (10–30)%; *Allium cepa*, 1 μmol/L, InRt = (10–30)%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, InRt = (10–30)%, 1 mmol/L, InRt = (10–30)%). **Source:** XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 5217.

**8677 5-O-β-D-Glucopyranosyl-8-hydroxy-psoralen**

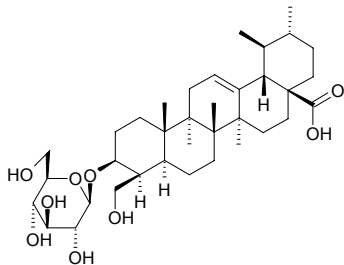
C₁₇H₁₆O₁₀ (380.31). **Pharm:** Antiproliferation inactive (hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100 μmol/L; control Cyclosporine, IC₅₀ = 12 nmol/L). **Source:** LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf: yield = 0.00065%fw). **Ref:** 4794.

**8678 8-O-β-D-Glucopyranosyl-5-hydroxy-psoralen**

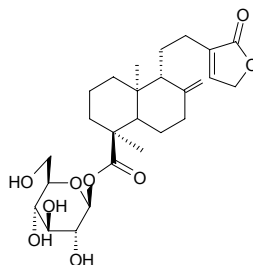
C₁₇H₁₆O₁₀ (380.31). Light yellow amorphous powder, [α]_D²⁰ = -28.8° (c = 0.07, pyridine). **Pharm:** Antiproliferation inactive (hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100 μmol/L; control Cyclosporine, IC₅₀ = 12 nmol/L). **Source:** LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf: yield = 0.00075%fw). **Ref:** 4794.

**8679 3-O-β-D-Glucopyranosyl-23-hydroxyursolic acid**

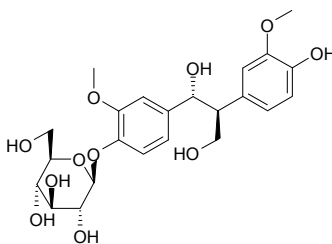
C₃₆H₅₈O₉ (634.86). White amorphous powder (MeOH/CH₂Cl₂), 280–281°C, [α]_D³¹ = +43.4° (c = 0.046, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release). **Source:** *Cussonia bancoensis*. **Ref:** 5016.

**8680 β-D-Glucopyranosyl-8(17),13-ent-labdadien-16,15-olid-18-oate**

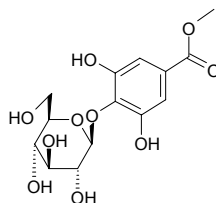
C₂₆H₃₈O₉ (494.59). Yellow gum, [α]_D²⁵ = -18.1° (c = 0.73, CH₃OH). **Source:** GUANG YE YAN ZI CAI *Potamogeton lucens* (whole herb). **Ref:** 3795.

**8681 (1S,2R)-1-(4'-O-β-D-Glucopyranosyl-3'-methoxyphenyl)-2-(4''-hydroxy-3''-methoxyphenyl)-1,3-propanediol**

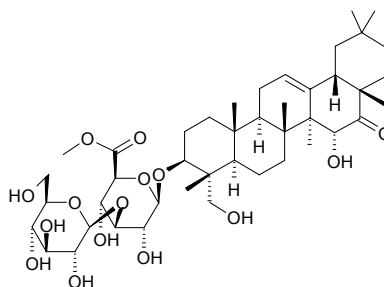
C₂₃H₃₀O₁₁ (482.49). White powder, mp 135–137°C, [α]_D²⁵ = +24.6° (c = 0.11, MeOH). **Source:** SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535.

**8682 4-O-β-D-Glucopyranosyl methyl gallate**

C₁₄H₁₈O₁₀ (346.29). Yellowish powder, mp 169–170°C. **Source:** JUAN MAO QIANG WEI *Rosa sericea*. **Ref:** 676.

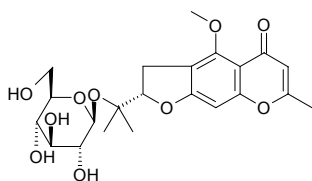
**8683 3-O-β-D-Glucopyranosyl (1→3)-β-D-6-O-methyl-glucuronopyranosyl]-3β,15α,23-trihydroxy-olean-12-en-16-one**

C₄₃H₆₈O₁₅ (825.01). White powder, mp 207–209°C, [α]_D²⁰ = -9.5° (c = 0.084, MeOH). **Pharm:** Antifungal (*Aspergillus niger*). **Source:** YUN NAN GE TENG *Pueraria peduncularis*. **Ref:** 2159.

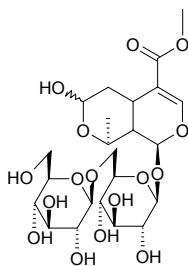


8684 4'-O-β-Glucopyranosyl-5-O-methylvisamminol

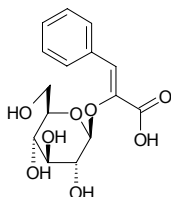
C₂₂H₂₈O₁₀ (452.46). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2.

**8685 6'-O-β-D-Glucopyranosylmorroneiside**

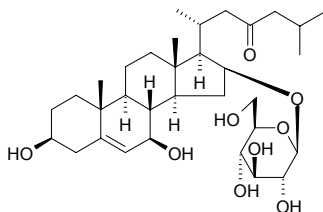
C₂₃H₃₅O₁₆ (568.53). Amorphous powder, $[\alpha]_D^{27} = -71.4^\circ$ ($c = 0.56$, MeOH). Source: RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 3533.

**8686 (Z)-8-β-D-Glucopyranosyloxycinnamic acid**

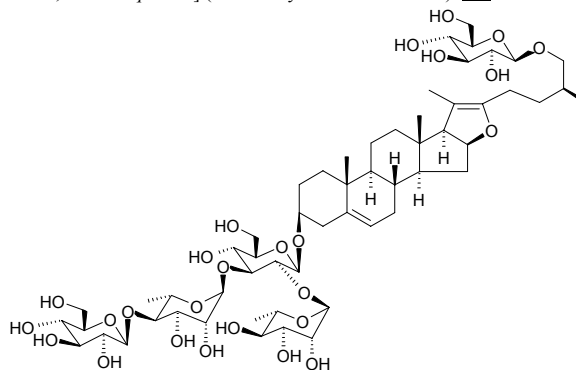
C₁₅H₁₈O₈ (326.31). Source: LV DOU *Onobrychis viciifolia* (leaf). Ref: 5084.

**8687 16β-[(β-D-Glucopyranosyl)-oxy]-3β,7β-dihydroxycholest-5-en-23-one**

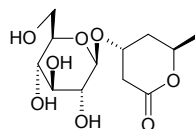
C₃₃H₅₄O₉ (594.79). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 68 μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 83 μg/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.

**8688 (25S)-26-[(β-D-Glucopyranosyl)oxy]furosta-5,20(22)-dien-3β-yl O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→3)]-β-D-glucopyranoside**

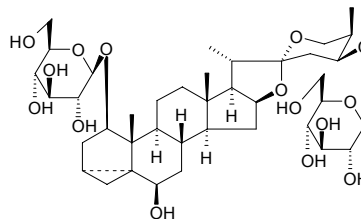
C₅₇H₉₂O₂₆ (1193.35). Amorphous solid, $[\alpha]_D^{25} = -60.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0018% dw). Ref: 4648.

**8689 (3R,5R)-3-(β-D-Glucopyranosyloxy)-5-hexanolide**

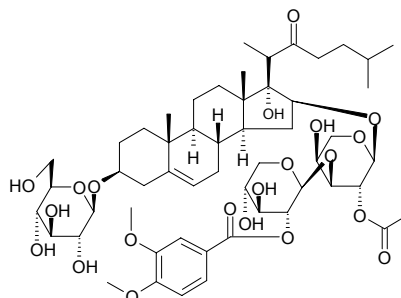
C₁₂H₂₀O₈ (292.29). Oil, $[\alpha]_D^{22} = -21.8^\circ$ ($c = 1.62$, MeOH). Source: MO JUE *Hymenophyllum barbatum*. Ref: 4151.

**8690 (24S,25R)-1β-[(β-D-Glucopyranosyl)oxy]-6β-hydroxy-3α,5α-cyclospirostan-24-yl β-D-glucopyranoside**

C₃₀H₆₂O₁₅ (770.92). Amorphous solid, $[\alpha]_D^{26} = -42.0^\circ$ ($c = 0.10$, MeOH). Source: DUO ZHI LONG XUE SHU *Dracaena surculosa* (whole herb). Ref: 4216.

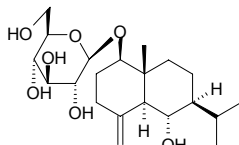
**8691 3β-[(β-D-Glucopyranosyl)oxy]-17α-hydroxy-16β-[(O-(2-O-3,4-dimethoxybenzoyl)-β-D-xylopyranosyl)-(1→2)-2-O-acetyl-α-L-arabinopyranosyl)oxy]cholest-5-en-22-one**

C₅₄H₈₀O₂₁ (1065.23). Amorphous solid, $[\alpha]_D^{25} = -50.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HL-60 cells, IC₅₀ = 0.00048 μmol/L, control Etoposide, IC₅₀ = 0.025 μmol/L). Source: XIA FENG XIN ZI *Galtonia candicans* (bulb). Ref: 4116.

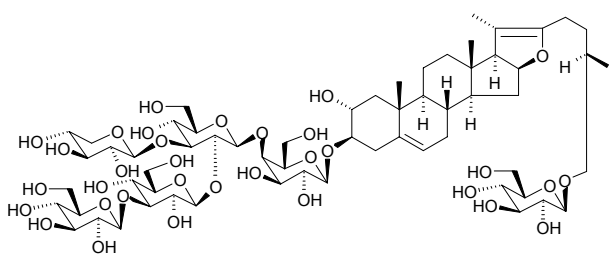


8692 1 β -D-Glucopyranosyloxy-6 α -hydroxyeudesman-4(15)-ene

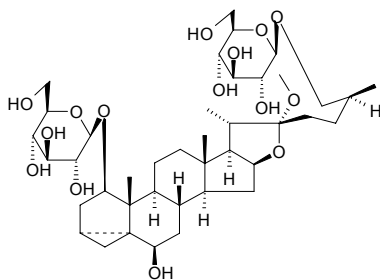
C₂₁H₃₆O₇ (400.52). Colorless oil, $[\alpha]_D^{17} = -14^\circ$ ($c = 1.90$, CHCl₃). **Pharm:** Cytotoxic (inhibits growth of Bel7402 cell, 0.0001mol/L, InRt = 30.1%, control Etoposide, InRt = 96.0%). **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts). **Ref:** 5073.

**8693 (25R)-26-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxyfurosta-5,20(22)-dien-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

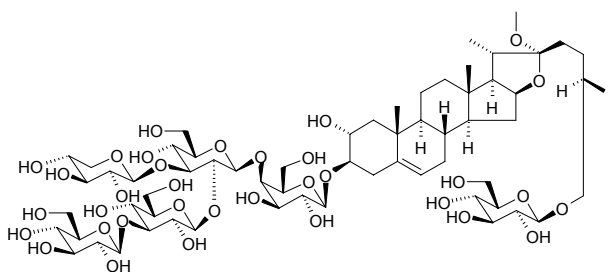
C₆₂H₁₀₀O₃₃ (1373.47). Amorphous powder, $[\alpha]_D^{28} = -46.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ > 300 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0033%fw). **Ref:** 4667.

**8694 (25S)-1 β -[(β -D-Glucopyranosyl)oxy]-6 β -hydroxy-22 α -methoxy-3 $\alpha,5\alpha$ -cyclofurostan-26-yl β -D-glucopyranoside**

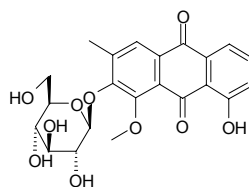
C₄₀H₆₆O₁₅ (786.96). Amorphous solid, $[\alpha]_D^{26} = -42.0^\circ$ ($c = 0.10$, MeOH). **Source:** DUO ZHI LONG XUE SHU *Dracaena surculosa* (whole herb). **Ref:** 4216.

**8695 (25R)-26-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxy-22 α -methoxyfurost-5-en-3 β -yl-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

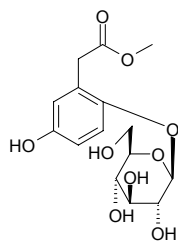
C₆₃H₁₀₄O₃₄ (1405.51). Amorphous powder, $[\alpha]_D^{27} = -60.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ = 6.1 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0264%fw). **Ref:** 4667.

**8696 2-(β -D-Glucopyranosyloxy)-8-hydroxy-1-methoxy-3-methyl-9,10-anthraquinone**

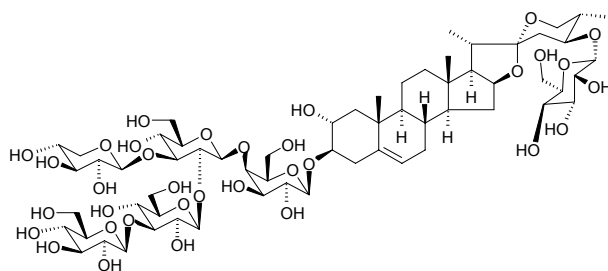
Obtusifolin-2-O- β -D-glucoside C₂₂H₂₂O₁₀ (446.41). **Pharm:** Platelet aggregation inhibitor (rat). **Source:** DUN YE JUE MING *Cassia obtusifolia*, JUE MING ZI *Cassia tora*. **Ref:** 2, 658, 660.

**8697 2- β -D-Glucopyranosyloxy-5-hydroxyphenylacetic acid methyl ester**

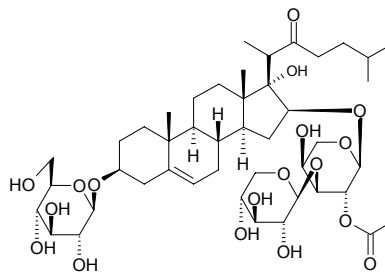
C₁₅H₂₀O₉ (344.32). mp 180–182°C, $[\alpha]_D^{31} = -37.9^\circ$ ($c = 0.3$, MeOH). **Source:** RI BEN LU TI CAO *Pyrola japonica* (whole herb). **Ref:** 4294.

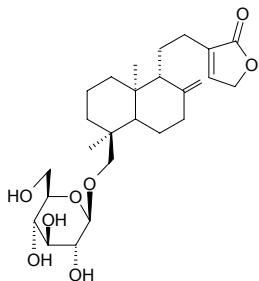
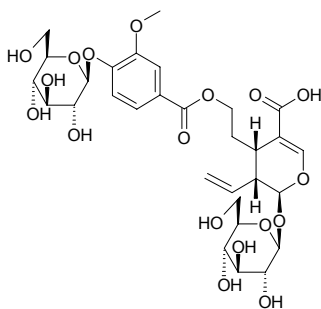
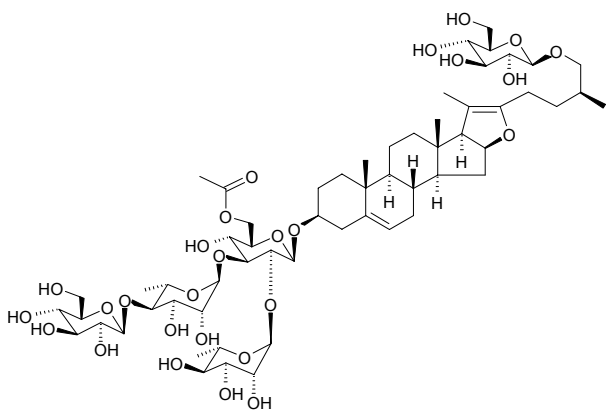
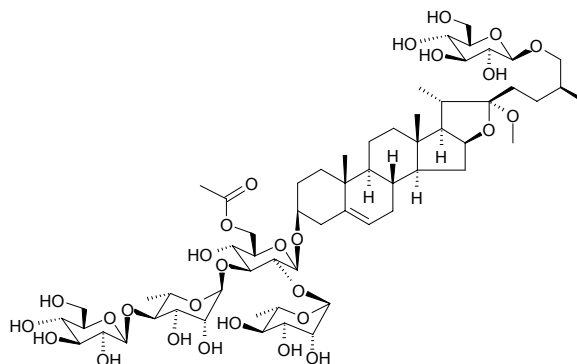
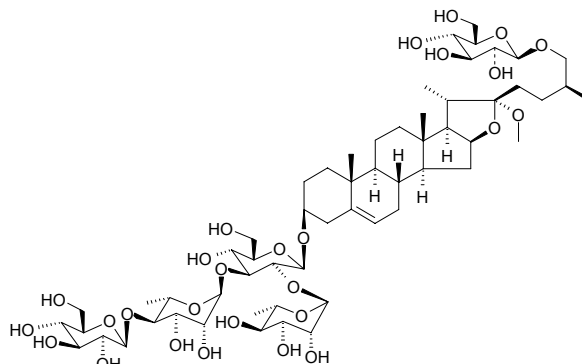
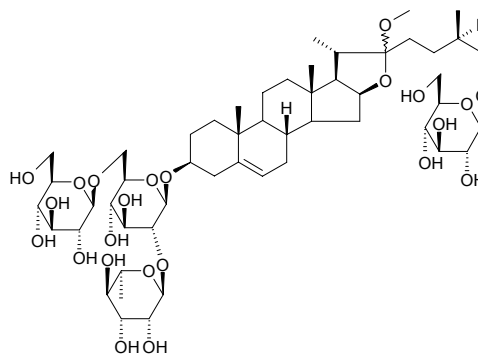
**8698 (24S,25S)-24-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxyspirost-5-en-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

C₆₂H₁₀₀O₃₄ (1389.47). Amorphous powder, $[\alpha]_D^{28} = -48.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HSC-2, LD₅₀ > 300 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL)^[4667]. **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0060%fw). **Ref:** 4667.

**8699 3 β -[(β -D-Glucopyranosyl)oxy]-17 α -hydroxy-16 β -[(O- β -D-xylopyranosyl-(1 \rightarrow 2)-2-O-acetyl- α -L-arabinopyranosyl)oxy]cholest-5-en-22-one**

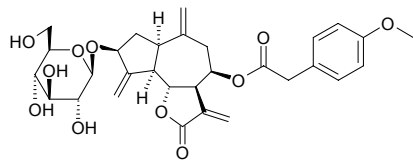
C₄₅H₇₂O₁₈ (901.06). Amorphous solid, $[\alpha]_D^{25} = -50.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (HL-60 cells, IC₅₀ = 0.0024 μ mol/L, control Etoposide, IC₅₀ = 0.025 μ mol/L). **Source:** XIA FENG XIN ZI *Galtonia candicans* (bulb). **Ref:** 4116.



8700 18-β-D-Glucopyranosyloxy-8(17),13-ent-labdadien-16,15-olideC₂₆H₄₀O₈ (480.60). Yellow oil, $[\alpha]_D^{25} = -37.8^\circ$ ($c = 0.87$, CH₃OH).Source: GUANG YE YAN ZI CAI *Potamogeton lucens* (whole herb). Ref: 3795.**8701 7-O-(4-β-D-Glucopyranosyloxy-3-methoxybenzoyl) seco-loganic acid**C₃₀H₄₀O₁₈ (688.64). Amorphous powder, $[\alpha]_D^{26} = -96.4^\circ$ ($c = 0.149$,MeOH). Source: JIN YIN HUA *Lonicera japonica* (stem and leaf). Ref: 4220.**8702 (25S)-26-[(β-D-Glucopyranosyl)oxy]-22α-methoxyfurosta-5,20(22)-dien-3β-yl O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→3)]-6-O-acetyl-β-D-glucopyranoside**C₅₉H₉₄O₂₇ (1235.39). Amorphous solid, $[\alpha]_D^{25} = -42.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00029%dw). Ref: 4648.**8703 (25S)-26-[(β-D-Glucopyranosyl)oxy]-22α-methoxyfurost-5-en-3β-yl O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→3)]-6-O-acetyl-β-D-glucopyranoside**C₆₀H₉₈O₂₈ (1267.43). Amorphous solid, $[\alpha]_D^{25} = -106.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.0027%dw). Ref: 4648.**8704 (25S)-26-[(β-D-Glucopyranosyl)oxy]-22α-methoxyfurost-5-en-3β-yl O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→3)]-β-D-glucopyranoside**C₅₈H₉₆O₂₇ (1225.4). Amorphous solid, $[\alpha]_D^{25} = -82.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.14%dw). Ref: 4648.**8705 (25R)-26-(β-D-Glucopyranosyloxy)-22-methoxyfurost-5-en-3β-yl O-α-L-rhamnopyranosyl-(1→2)-O-[β-D-glucopyranosyl-(1→6)]-β-D-glucopyranoside**[244160-64-3] C₅₂H₈₆O₂₃ (1079.25). Amorphous solid, $[\alpha]_D^{29} = -69.0^\circ$ ($c = 0.29$, MeOH). Source: QING LIANG BAI HE *Lilium candidum*. Ref: 2303.

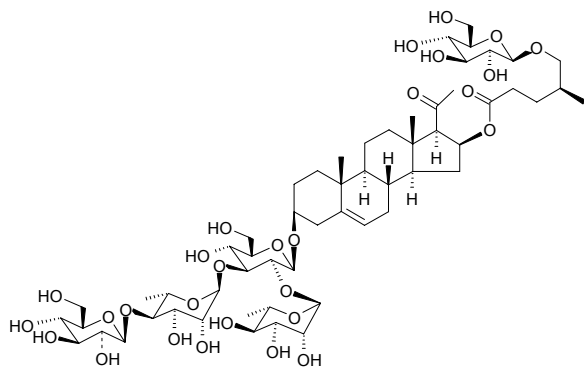
8706 2β-(β-D-glucopyranosyloxy)-8β-(4''-methoxyphenylacetox)-guaia-4(15),10(14),11(13)-trien-1α,5α,6β,7αH-12,6-olide

C₃₀H₃₆O₁₁ (572.61). Source: NAN XI BAN YA HUAN YANG SHEN *Crepis tingitana*. Ref: 1859.



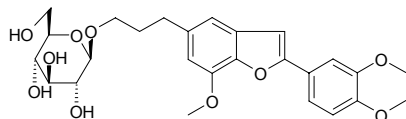
8707 16β-[[[(4S)-5-(β-D-Glucopyranosyloxy)-4-methyl-1-oxopentyl]oxy]-3β-[(O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→3)]-β-D-glucopyranosyl)oxy]pregn-5-en-20-one

C₅₇H₉₂O₂₈ (1225.35). Amorphous solid, [α]_D²⁵ = -22.0° (c = 0.10, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome: yield = 0.00082%dw). Ref: 4648.



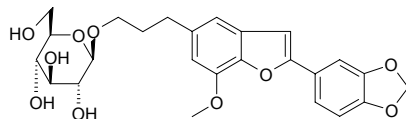
8708 5-[3''-(β-D-Glucopyranosyloxy)propyl]-7-methoxy-2-(3',4'-dimethoxyphenyl)benzofuran

C₂₆H₃₂O₁₀ (504.54). White powder, [α]_D²⁵ = -22.23° (c = 0.8, CH₃OH). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 20 μg/mL; control Chloramphenicol, MIC = 5 μg/mL); antifungal (*Candida albicans*, MIC = 20 μg/mL, control Chloramphenicol, MIC = 5 μg/mL; *Cladosporium sphaerospermum*, inactive at 20 μg). Source: XIU SE AN XI XIANG *Styrax ferrugineus* (leaf). Ref: 5100.



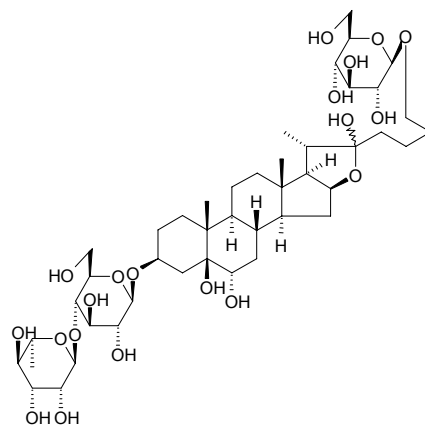
8709 5-[3''-β-D-Glucopyranosyloxy)propyl]-7-methoxy-2-(3',4'-methylendioxyphenyl)benzofuran

C₂₅H₂₈O₁₀ (488.50). White powder. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 15 μg/mL; control Chloramphenicol, MIC = 5 μg/mL); antifungal (*Candida albicans*, MIC = 15 μg/mL, control Chloramphenicol, MIC = 5 μg/mL; *Cladosporium sphaerospermum*, inactive at 20 μg). Source: XIU SE AN XI XIANG *Styrax ferrugineus* (leaf). Ref: 5100.



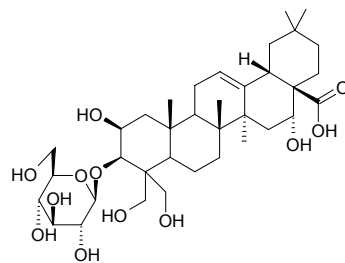
8710 26-O-β-D-Glucopyranosyl-(25S)-3β,5β,6α,22ξ,26-pentahydroxyl-5β-furostane 3-O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranoside

C₄₅H₇₆O₂₀ (937.10). Amorphous powder, [α]_D²⁹ = -53.2° (c = 0.20, pyridine). Source: JIU ZI *Allium tuberosum*. Ref: 4262.



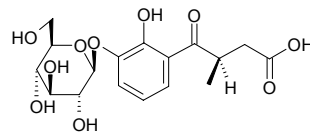
8711 3-O-β-D-Glucopyranosyl platycodigenin

3-O-β-D-Glucopyranosyl-2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid C₃₆H₅₈O₁₂ (682.86). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.



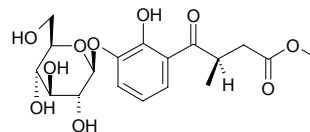
8712 3'-O-β-Glucopyranosyl plumbagic acid

C₁₇H₂₂O₁₀ (386.36). Amorphous powder. Source: BAI HUA DAN *Plumbago zeylanica*. Ref: 2047.



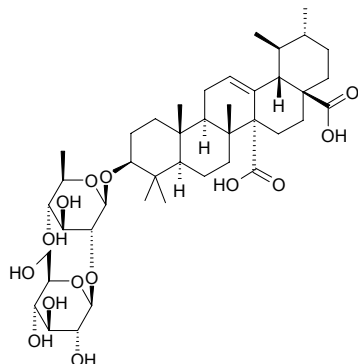
8713 3'-O-β-Glucopyranosyl plumbagic acid methyl ester

C₁₈H₂₄O₁₀ (400.39). [α]_D²⁷ = -37° (c = 0.35, MeOH). Source: BAI HUA DAN *Plumbago zeylanica*. Ref: 2047.



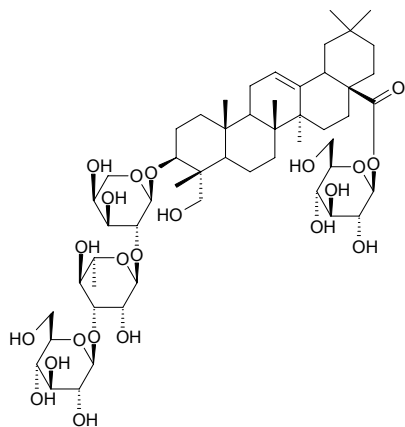
8714 3-O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-quinovopyranosyl quinovic acid

$C_{42}H_{66}O_{14}$ (794.99). Colorless crystalline solid, mp 220–222 °C (H₂O), $[\alpha]_D^{22} = +43^\circ$ ($c = 0.6$, MeOH). Source: WU BING XIN WU TAN *Neonauclea sessilifolia* [Syn. *Nauclea sessilifolia*; *Adina sessilifolia*](root). Ref: 4405.



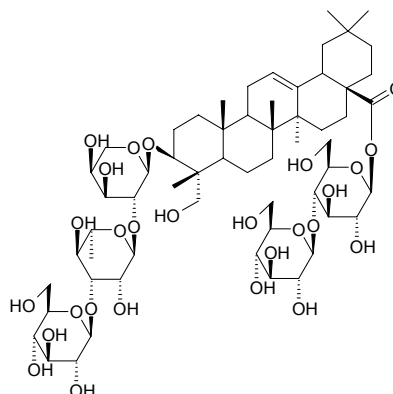
8715 3 β -O-(β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-hederagenin-28-O- β -D-glucopyranosyl ester

$C_{53}H_{86}O_{22}$ (1075.26). White powder, $[\alpha]_D^{25} = +47^\circ$, ($c = 1$, MeOH). Pharm: Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, $IC_{50} = 0.51\mu\text{mol/L}$, HEK-293 cell line, $IC_{50} = 1.8\mu\text{mol/L}$, WEHI-164 cell line, $IC_{50} = 1.74\mu\text{mol/L}$; control 6-Mercaptopurine, J774.A1 cell line, $IC_{50} = 0.003\mu\text{mol/L}$, HEK-293 cell line, $IC_{50} = 0.007\mu\text{mol/L}$, WEHI-164 cell line, $IC_{50} = 0.015\mu\text{mol/L}$). Source: YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). Ref: 5036.



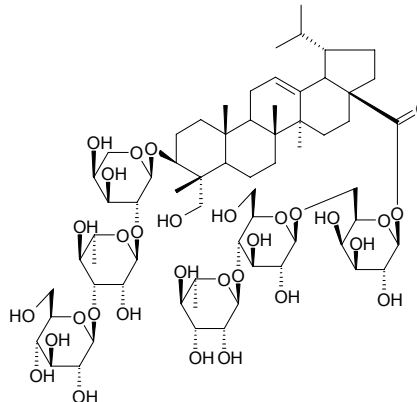
8716 3 β -O-(β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-hederagenin-28-O-(β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl)ester

$C_{59}H_{96}O_{27}$ (1237.41). White powder, $[\alpha]_D^{25} = +29^\circ$, ($c = 1$, MeOH). Pharm: Cytotoxic (antiproliferative, *in vitro*: J774.A1 cell line, $IC_{50} = 1.63\mu\text{mol/L}$, WEHI-164 cell line, $IC_{50} = 0.64\mu\text{mol/L}$; control 6-Mercaptopurine, J774.A1 cell line, $IC_{50} = 0.003\mu\text{mol/L}$, WEHI-164 cell line, $IC_{50} = 0.015\mu\text{mol/L}$). Source: YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). Ref: 5036.



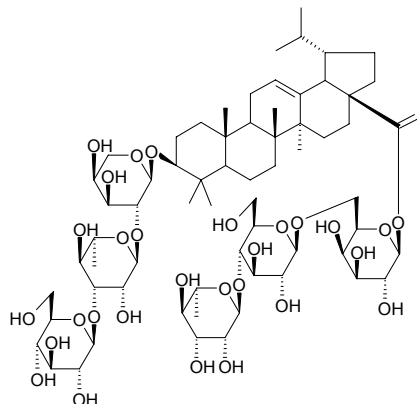
8717 3 β -O-(β -Glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-23-hydroxylup-12-en-28-O-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester

$C_{65}H_{106}O_{31}$ (1383.55). White amorphous powder, $[\alpha]_D^{25} = +120^\circ$ ($c = 1$, MeOH). Pharm: Antiproliferative (*in vitro*, J774 cell line, $IC_{50} = 0.46\mu\text{mol/L}$, control 6-Mercaptopurine, $IC_{50} = 0.003\mu\text{mol/L}$; WEHI-164, $IC_{50} = 1.9\mu\text{mol/L}$, 6-Mercaptopurine, $IC_{50} = 0.017\mu\text{mol/L}$). Source: *Schefflera fagueti*. Ref: 5436.



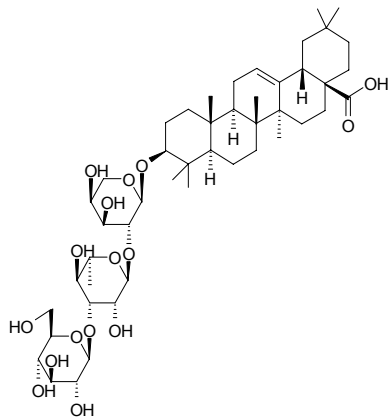
8718 3 β -O-(β -Glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-lup-12-en-28-O-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester

$C_{65}H_{106}O_{30}$ (1367.55). White amorphous powder, $[\alpha]_D^{25} = +139^\circ$ ($c = 1$, MeOH). Pharm: Antiproliferative (*in vitro*, J774 cell line, $IC_{50} = 0.19\mu\text{mol/L}$, control 6-Mercaptopurine, $IC_{50} = 0.003\mu\text{mol/L}$; WEHI-164, $IC_{50} = 0.56\mu\text{mol/L}$, 6-Mercaptopurine, $IC_{50} = 0.017\mu\text{mol/L}$). Source: *Schefflera fagueti*. Ref: 5436.



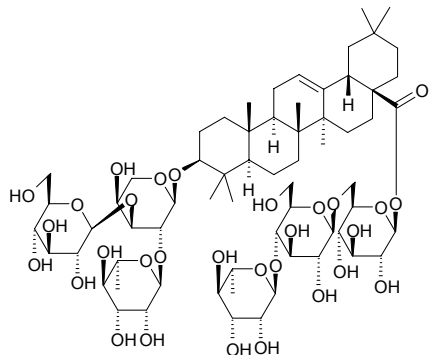
8719 3-O- α -L-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyloleonic acid

C₄₇H₇₆O₁₆ (897.12). Source: SAN YE MU TONG *Akebia trifoliata* (stem), HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 660, 4545.



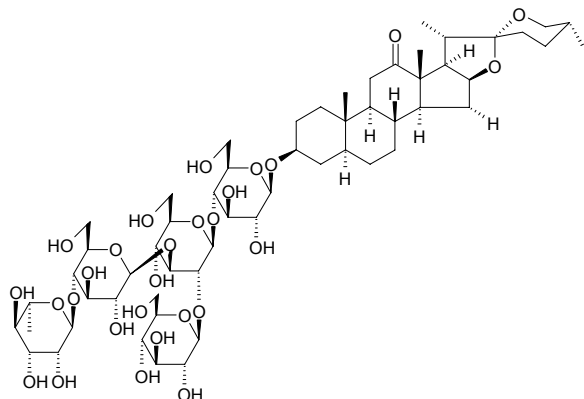
8720 3β-[(O-β-D-Glucopyranosyl-(1 \rightarrow 3)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl]oxy]olean-12-en-28-oic acid O- α -L-rhamnopyranosyl-(1 \rightarrow 4)-O-β-D-glucopyranosyl-(1 \rightarrow 6)-β-D-glucopyranosyl ester

C₆₅H₁₀₆O₃₀ (1367.55). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



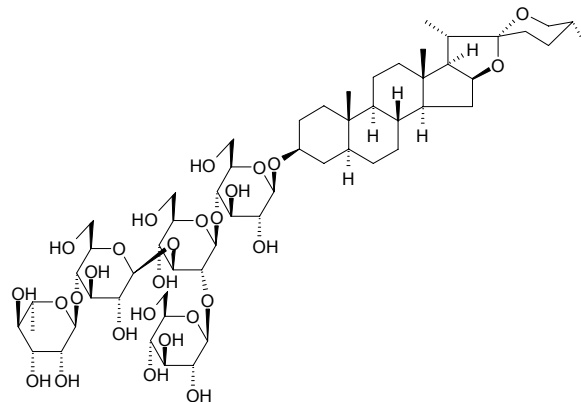
8721 (25R)-3β-[(O-β-D-Glucopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)-β-D-glucopyranosyl-(1 \rightarrow 3)]-O-β-D-glucopyranosyl-(1 \rightarrow 4)-β-D-galactopyranosyl]oxy]-5 α -spirostan-12-one

C₅₇H₉₂O₂₈ (1225.35). Amorphous solid, $[\alpha]_D^{25} = -36.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 2.4 μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 18 μg/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.



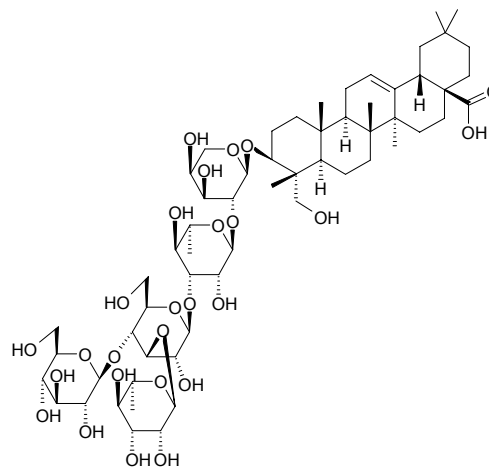
8722 (25R)-3β-[(O-β-D-Glucopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)-β-D-glucopyranosyl-(1 \rightarrow 3)]-O-β-D-glucopyranosyl-(1 \rightarrow 4)-β-D-galactopyranosyl]oxy]-5 α -spirostane

C₅₇H₉₄O₂₇ (1211.37). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 1.9 μg/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 20 μg/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.



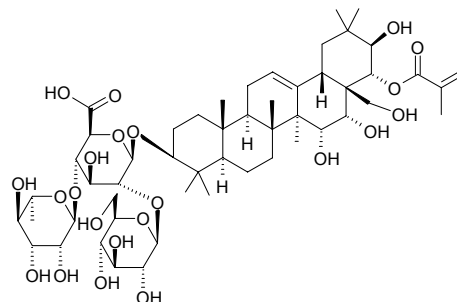
8723 3-O-β-D-Glucopyranosyl-(1 \rightarrow 4)[α -L-rhamnopyranosyl-(1 \rightarrow 3)]-β-D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl-hederagenin

C₅₉H₉₆O₂₆ (1221.41). White powder, mp 239–243°C, $[\alpha]_D^{21} = -12.3^\circ$ ($c = 0.28$, MeOH). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 265.

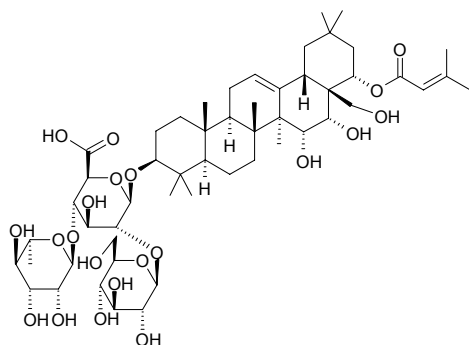


8724 3-O-β-D-Glucopyranosyl-(1 \rightarrow 2)-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]-β-D-glucuronopyranosyl-22-O-angeloyl-barrigenol R₁

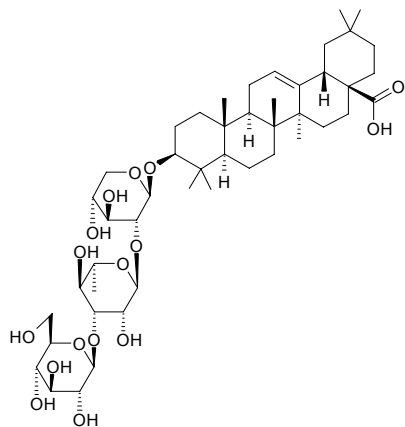
C₅₃H₈₄O₂₂ (1073.25). White amorphous powder, $[\alpha]_D^{25} = -33.0^\circ$ ($c = 0.03$, MeOH). Source: TIAN YE CI QIN *Eryngium campestre* (root). Ref: 4518.



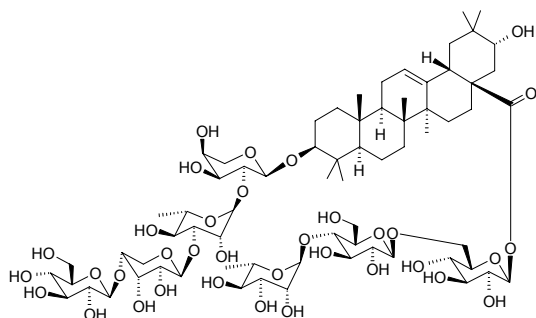
8725 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl-22-*O*- β , β -dimethylacryloyl-barrigenol A₁
C₅₃H₈₄O₂₁ (1057.25). White amorphous powder, $[\alpha]_D^{25} = -33.0^\circ$ ($c = 0.03$, MeOH). Source: TIAN YE CI QIN *Eryngium campestre* (root). Ref: 4518.



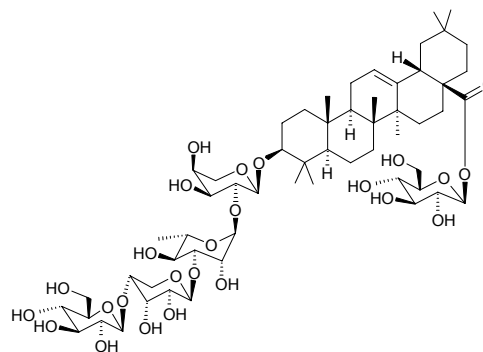
8726 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl oleanolic acid
C₄₇H₇₆O₁₆ (897.12). White powder (acetone), mp 234–238°C (dec). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 776.



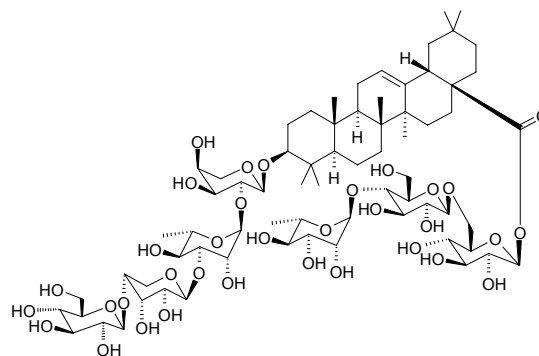
8727 3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]-21 α -hydroxy olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester
C₇₀H₁₁₄O₃₅ (1515.67). Amorphous solid, $[\alpha]_D^{25} = -108.0^\circ$ ($c = 0.25$, MeOH). Source: WEI LING XIAN *Clematis chinensis* (root; yield = 0.0024%). Ref: 4763.



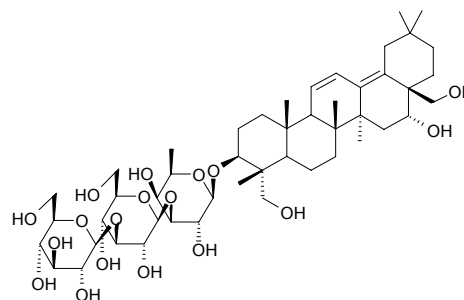
8728 3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- β -*D*-glucopyranosyl ester
C₅₈H₉₄O₂₅ (1191.38). Amorphous solid, $[\alpha]_D^{25} = -38.0^\circ$ ($c = 0.10$, MeOH). Source: WEI LING XIAN *Clematis chinensis* (root; yield = 0.00028%). Ref: 4763.



8729 3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester
C₇₀H₁₁₄O₃₄ (1499.67). Source: WEI LING XIAN *Clematis chinensis* (root; yield = 0.0125%). Ref: 4763.

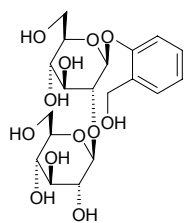


8730 2''-*O*- β -*D*-glucopyranosyl saikosaponin b₂
C₄₈H₇₈O₁₈ (943.15). Source: WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.

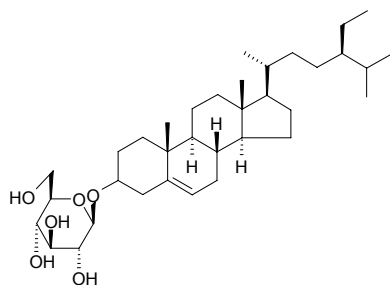


8731 2'-O-β-D-Glucopyranosylsalicin

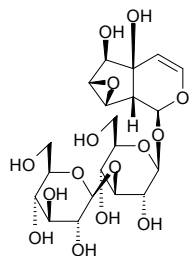
C₁₉H₂₈O₁₂ (448.43). [α]_D²² = -33° (c = 0.35, MeOH). Source: BA JIAO FENG *Alangium chinense* (leaf). Ref: 4131.

**8732 3-O-β-D-Glucopyranosyl-β-sitosterol**

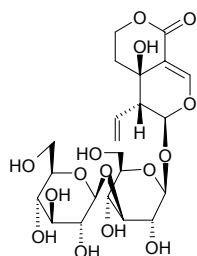
C₃₅H₆₀O₆ (576.86). Crystals, mp 287~289°C. Source: *Zygophyllum atriplicoides* (whole herb). Ref: 4504.

**8733 3'-O-β-D-Glucopyranosylstilbericoside**

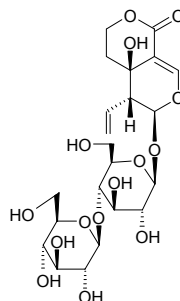
C₂₀H₃₀O₁₅ (510.45). Amorphous powder, [α]_D¹⁹ = -105.3° (c = 0.69, MeOH). Source: TAI GUO SHAN QIAN NIU *Thunbergia laurifolia*. Ref: 1968.

**8734 3'-O-β-D-Glucopyranosylswertiamarin**

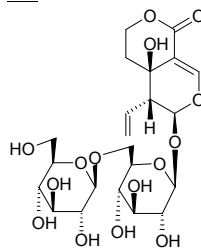
C₂₂H₃₂O₁₅ (536.49). Amorphous powder, [α]_D²⁵ = -114.6° (c = 0.2, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**8735 4'-O-β-D-Glucopyranosylswertiamarin**

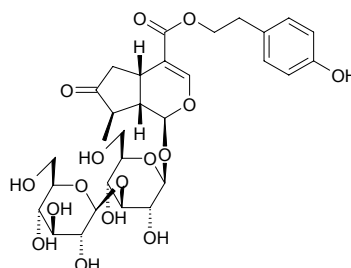
C₂₂H₃₂O₁₅ (536.49). Amorphous powder, [α]_D²⁵ = -96.8° (c = 0.2, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**8736 6'-O-β-D-Glucopyranosylswertiamarin**

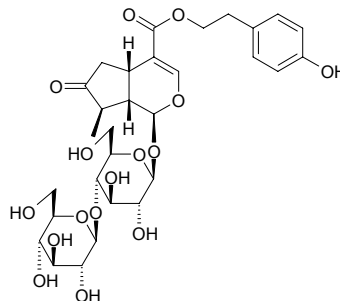
C₂₂H₃₂O₁₅ (536.49). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**8737 3'-O-β-D-Glucopyranosylsyringopicroside**

C₃₀H₄₀O₁₆ (656.64). Amorphous powder, [α]_D²⁶ = -88.9° (c = 0.3, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). Ref: 4175.

**8738 4'-O-β-D-Glucopyranosylsyringopicroside**

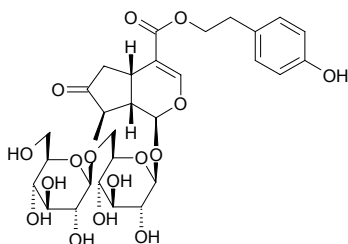
C₃₀H₄₀O₁₆ (656.64). Amorphous powder, [α]_D²⁶ = -77.2° (c = 0.8, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). Ref: 4175.



8739 6'-O- α -D-Glucopyranosylsyringopioside

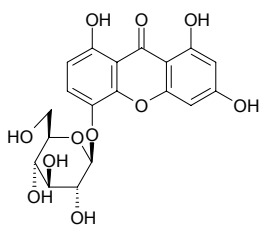
$C_{30}H_{40}O_{16}$ (656.64). Amorphous powder, $[\alpha]_D^{26} = -28.6^\circ$ ($c = 0.2$, MeOH).

Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). Ref: 4175.

**8740 5-O- β -D-Glucopyranosyl-1,3,8-trihydroxyanthrone**

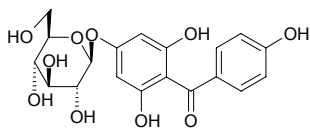
$C_{19}H_{18}O_{11}$ (422.35). Yellow amorphous powder, mp 280–282°C. Source:

CHUAN DONG ZHANG YA CAI *Swertia davidii* (whole herb). Ref: 4839.

**8741 4-O- β -D-Glucopyranosyl-2,6,4'-trihydroxybenzophenone**

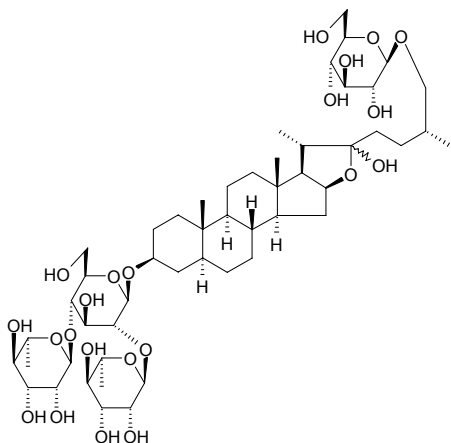
$C_{19}H_{20}O_{10}$ (408.37). Source: KUO YE GU SUI BU *Davallia solida*. Ref:

5150.

**8742 26-O- β -D-Glucopyranosyl-(25R)-3 β ,22 ζ ,26-trihydroxyl-5 α -furostane 3-O- β -chacotrioside**

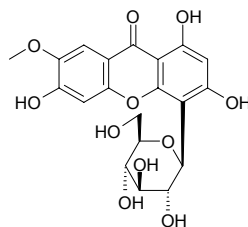
$C_{51}H_{86}O_{22}$ (1051.24). Amorphous powder, $[\alpha]_D^{29} = -45.4^\circ$ ($c = 0.17$, pyridine).

Source: JIU ZI *Allium tuberosum*. Ref: 4262.

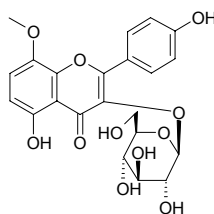
**8743 4-C- β -D-Glucopyranosyl-1,3,6-trihydroxy-7-methoxyxanthone**

$C_{20}H_{20}O_{11}$ (436.38). Yellow powder, mp 182–186°C. Source: YUAN ZHI

Polygala tenuifolia. Ref: 2433.

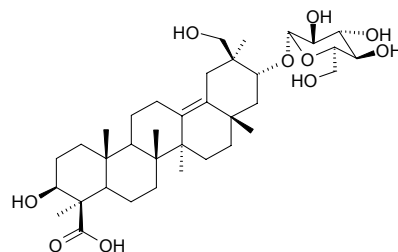
**8744 3-O- β -D-Glucopyranosyl-5,9,4'-trihydroxy-8-methoxyflavone**

$C_{22}H_{22}O_{11}$ (462.41). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**8745 21-O- β -D-Glucopyranosyl-3 β ,21 α ,30-trihydroxyolean-13(18)-en-24-oic acid**

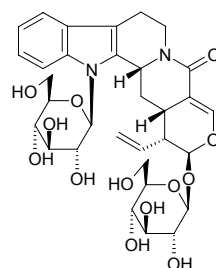
$C_{36}H_{58}O_{10}$ (650.86). Amorphous white powder (MeOH), mp 270–272°C,

$[\alpha]_D^{25} = -11.7^\circ$ ($c = 0.41$, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00010%dw). Ref: 4665.

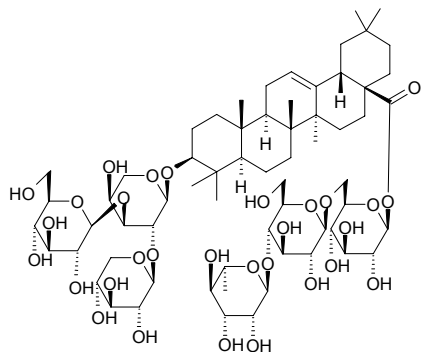
**8746 N- β -D-Glucopyranosyl vincosamide**

$C_{32}H_{40}N_2O_{13}$ (660.68). Yellow amorphous powder. Source: PING HUA GUO

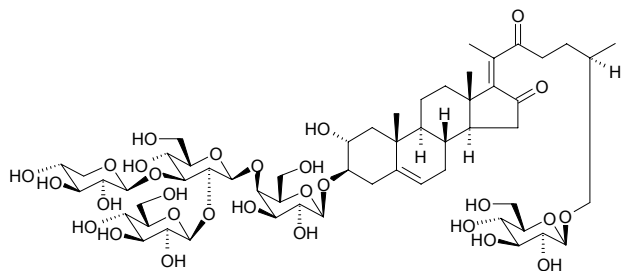
JIU JE *Psychotria leiocarpa* (shoot). Ref: 3769.



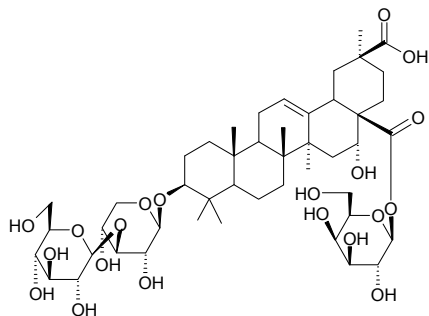
8747 3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-xylopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester
C₆₄H₁₀₄O₃₀ (1353.52). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



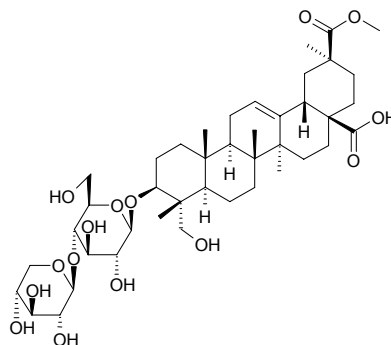
8748 (25*R*)-3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 2)-*O*- β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-26-[(β -D-glucopyranosyl)oxy]-2 α -hydroxycholesta-5,17-diene-16,22-dione
C₅₆H₈₈O₂₉ (1225.31). Amorphous powder, [α]_D²⁹ = -104.0° (*c* = 0.10, MeOH). Pharm: Cytotoxic (*in vitro*, HSC-2, LD₅₀ > 300 μ g/mL; control Doxorubicin, LD₅₀ = 2.5 μ g/mL). Source: YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.0040%fw). Ref: 4667.



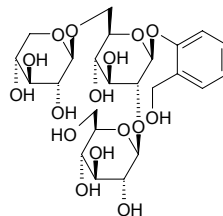
8749 3 β -*O*-(β -Glucopyranosyl-(1 \rightarrow 3)- β -xylopyranosyl)-16 α -hydroxy-olean-12-ene-28,30-dioic acid 28-*O*-(β -galactopyranosyl) ester
C₄₇H₇₄O₂₀ (959.10). White amorphous powder, [α]_D²⁵ = +11° (*c* = 1, MeOH). Pharm: Antiproliferative (*in vitro*, J774 cell line, IC₅₀ = 3.6 μ mol/L, control 6-Mercaptopurine, IC₅₀ = 0.003 μ mol/L; HEK-293, IC₅₀ = 0.50 μ mol/L, 6-Mercaptopurine, IC₅₀ = 0.007 μ mol/L; WEHI-164, IC₅₀ = 0.18 μ mol/L, 6-Mercaptopurine, IC₅₀ = 0.017 μ mol/L). Source: *Schefflera faguetai*. Ref: 5436.



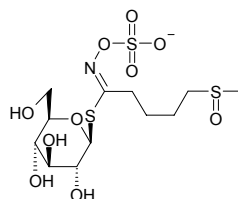
8750 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl]phytolaccinic Acid
C₄₂H₆₆O₁₅ (810.99). Amorphous powder, [α]_D^{21.8} = +46.1° (*c* = 0.74, MeOH). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 2443.



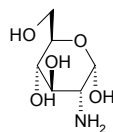
8751 2'-*O*- β -D-Glucopyranosyl-6'-*O*- β -D-xylopyranosylsalicin
C₂₄H₃₆O₁₆ (580.54). [α]_D¹⁹ = -31° (*c* = 0.27, MeOH). Source: BA JIAO FENG *Alangium chinense* (leaf). Ref: 4131.



8752 Glucoraphanin
[21414-41-5] C₁₂H₂₂NO₁₀S₃⁻ (436.50). Pharm: Antifungal; antimicrobial. Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, GAN LAN *Brassica oleracea* var. *capitata*, JU SAN HUA YE CAI *Brassica oleracea* var. *botrytis* subvar. *cymosa*, LAI FU ZI *Raphanus sativus*. Ref: 658.

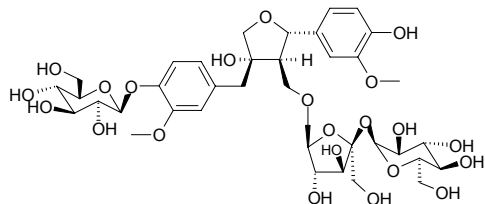


8753 Glucosamine
[3416-24-8] C₆H₁₃NO₅ (179.17). mp (α) 88°C, (β) 110°C (dec). Pharm: Antiarthritic (approved by clinical trial). Source: BAI FAN DOU *Phaseolus vulgaris*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], HAI SHEN CHANG *Stichopus japonicus*, LU RONG *Cervus nippon*; *Cervus elaphus*, NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*, YE JU *Chrysanthemum indicum*, ZI ZHI *Ganoderma japonicum* [Syn. *Ganoderma sinense*]. Ref: 2, 658, 660.

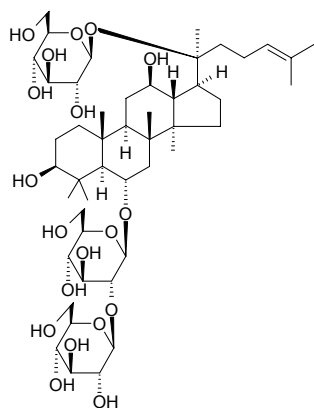


8754 4'-O-β-D-Glucosyl-9-O-(6''-deoxysaccharosyl)olivil

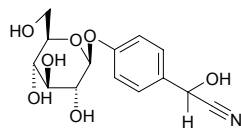
$C_{38}H_{54}O_{22}$ (862.84). $[\alpha]_D^{21} = -27^\circ$ ($c = 0.05$, DMSO). **Pharm:** Adenosine A_1 receptor partial agonist (rat and hmn adenosine A_1 receptor, the first non-nucleoside adenosine receptor agonist not structurally related to adenosine). **Source:** XIE CAO *Valeriana officinalis* (root: yield = 0.021%dw). **Ref:** 4656.

**8755 20-Glucosylginsenoside Rf**

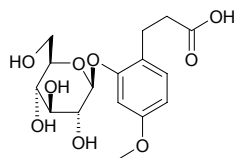
$C_{48}H_{82}O_{19}$ (963.18). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.010%dw). **Ref:** 2, 4610.

**8756 p-Glucosyloxymandelonitrile**

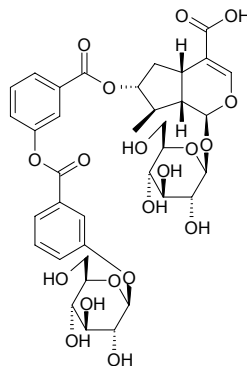
$C_{14}H_{17}NO_7$ (311.29). **Pharm:** Toxin. **Source:** NAN TIAN ZHU ZI *Nandina domestica*. **Ref:** 658.

**8757 2-O-β-D-Glucosyloxy-4-methoxybenzenepropanoic acid**

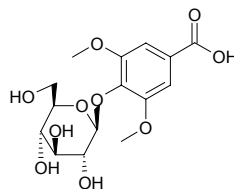
$C_{16}H_{22}O_9$ (358.35). mp 168–169°C (Me₂CO), $[\alpha]_D^{22} = -80^\circ$ ($c = 1.610$, MeOH). **Source:** DUO TOU GE NI DI MU *Gnidia polycephala* (stem). **Ref:** 3502.

**8758 3'''-O-Glucosylsenburiside II**

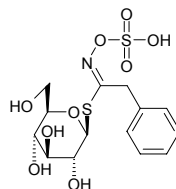
Senburiside IV $C_{36}H_{42}O_{19}$ (778.72). Amorphous, $[\alpha]_D^{26} = -83.4^\circ$ ($c = 0.69$, MeOH); White amorphous powder (MeOH–H₂O), $[\alpha]_D^{25} = -60.2^\circ$ ($c = 1.14$, MeOH). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), BAO JING ZHANG YA CAI *Swertia franchetiana* (whole herb). **Ref:** 4527, 4469.

**8759 Glucosyringic acid**

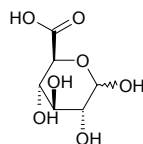
[33228-65-8] $C_{15}H_{20}O_{10}$ (360.32). Amorphous powder, mp 204–207°C, mp 215–217°C. **Source:** LIU CHUAN YU *Linaria vulgaris*, NAO YANG HUA *Rhododendron molle*, QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*]. **Ref:** 515, 4237, 5396.

**8760 Glucotropaeolin**

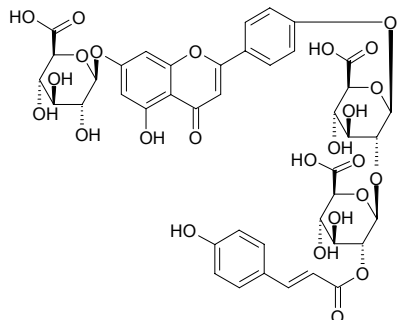
[499-26-3] $C_{14}H_{19}NO_9S_2$ (409.44). Acicular Crystals (ethanol), tetramethylammonium, mp 188.0–189.2°C, $[\alpha]_D^{21} = -16.7^\circ$ (water). **Pharm:** Antibacterial; antifungal. **Source:** HAN LIAN HUA *Tropaeolum majus*, LA GEN *Armoracia lapathifolia*, FAN MU GUA *Carica papaya*. **Ref:** 6, 661.

**8761 Glucuronic acid**

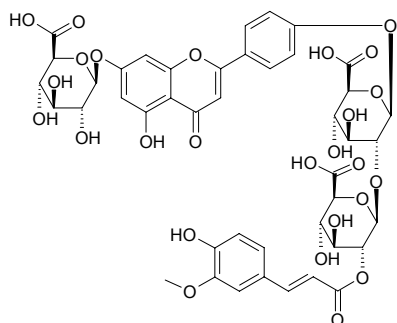
Glycuronic acid $C_6H_{10}O_7$ (194.14). **Pharm:** Antidote. **Source:** HUANG QI *Astragalus membranaceus*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 658.



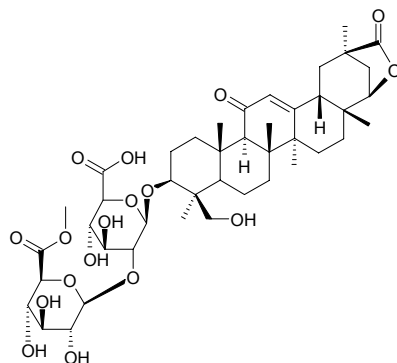
8762 7-O-β-D-Glucuronopyranosyl-4'-O-[2'-O-p-E-coumaroyl-O-β-D-glucuronopyranosyl(1→2)-O-β-D-glucuronopyranoside]apigenin
 C₄₂H₄₀O₂₅ (944.77). Amorphous powder, mp 197~198°C, $[\alpha]_D^{20} = -52.45^\circ$ ($c = 0.1$, MeOH). Source: MU XU *Medicago sativa* (aerial parts). Ref: 5167.



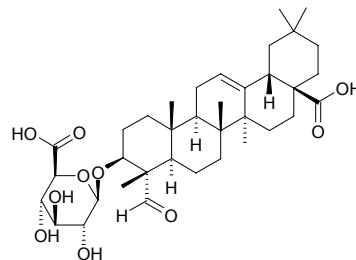
8763 7-O-β-D-Glucuronopyranosyl-4'-O-[2'-O-E-feruloyl-O-β-D-glucuronopyranosyl(1→2)-O-β-D-glucuronopyranoside]apigenin
 C₄₃H₄₂O₂₆ (974.80). Amorphous yellow powder, mp 197~198°C, $[\alpha]_D^{20} = -10.23^\circ$ ($c = 0.1$, MeOH). Source: MU XU *Medicago sativa* (aerial parts). Ref: 5167.



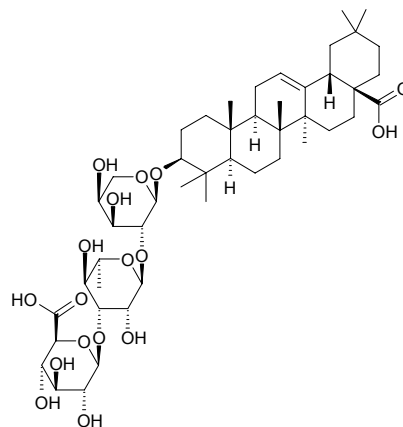
8764 3-O-[β-D-Glucuronopyranosyl-(1→2)-O-β-D-glucuronopyranosyl]-24-hydroxyglabrolide
 C₄₃H₆₂O₁₇ (850.96). White powder, $[\alpha]_D^{25} = +3.5$ ($c = 0.002$, CHCl₃:CH₃OH = 1:5). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2085, 2445.



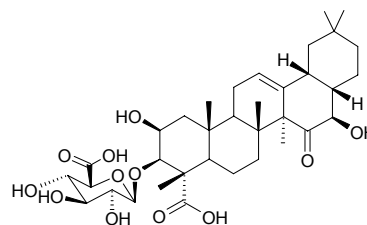
8765 3-O-β-D-Glucuronopyranosyl gypsogenin
 C₃₆H₅₄O₁₀ (646.83). White lamellar Crystals, mp 238~240°C. Source: SHAN KU GUA *Momordica dioica*. Ref: 645.



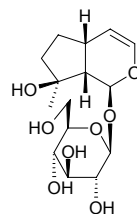
8766 3β-[(O-β-D-Glucuronopyranosyl-(1→3)-O-[α-L-rhamnopyranosyl-(1→2)]-α-L-arabinopyranosyl)oxy]olean-12-en-28-oic acid
 C₄₇H₇₄O₁₇ (911.10). Amorphous solid, $[\alpha]_D^{27} = -4.0^\circ$ ($c = 0.10$, MeOH). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



8767 3-O-β-D-Glucuronopyranosyl-2β,3β,16β-trihydroxy-28-norolean-12-en-15-on-23-oic acid
 C₃₅H₅₂O₁₂ (664.8). White needles (MeOH), mp >350°C, $[\alpha]_D^{25} = +54.5^\circ$ ($c = 0.44$, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00026%dw). Ref: 4665.

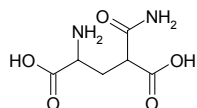


8768 Glucoside
 C₁₅H₂₄O₈ (332.35). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2448.

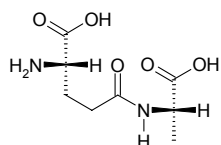


8769 L-Glutamic acid- γ -methylamide

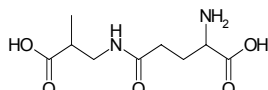
$C_6H_{10}N_2O_5$ (190.16). Source: CHA ZI XIN *Camellia oleifera*, YOU CHA GEN PI *Camellia oleifera*. Ref: 6.

**8770 γ -Glutamyl-alanine**

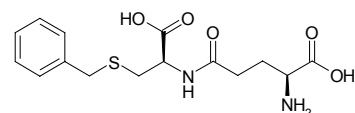
[5875-41-2] $C_8H_{14}N_2O_5$ (218.21). mp 194~195°C (dec), $[\alpha]_D = -28^\circ$ ($c = 2$, H_2O). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 1521.

**8771 γ -L-Glutamyl-L- β -aminoisobutyric acid**

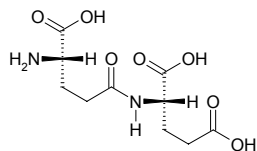
$C_9H_{16}N_2O_5$ (232.24). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**8772 ($S_{C_2}R_{C_7}$)- γ -Glutamyl-S-benzylcysteine**

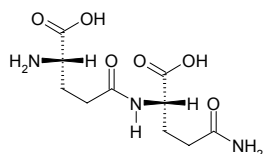
$C_{15}H_{20}N_2O_5S$ (340.40). White hygroscopic solid, mp 152~155°C, $[\alpha]_D^{22} = -14.7^\circ$ ($c = 0.03$, H_2O). Source: SUAN CHOU MU JI CAO *Petiveria alliacea* (root). Ref: 5322.

**8773 γ -L-Glutamyl-L-glutamic acid**

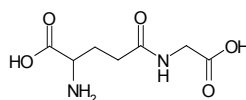
[1116-22-9] $C_{10}H_{16}N_2O_7$ (276.25). mp 191~192°C, $[\alpha]_D^{16} = +6.6^\circ$ ($c = 1$, 1mol/L HCl). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 1521.

**8774 γ -L-Glutamyl-glutamine**

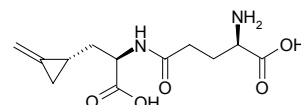
$C_{10}H_{17}N_3O_6$ (275.26). mp 191~192°C, $[\alpha]_D^{16} = +11^\circ$ ($c = 1$, 1mol/L HCl). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 1521.

**8775 γ -L-Glutamyl-glycine**

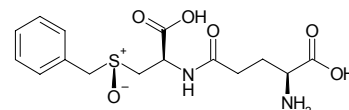
$C_7H_{12}N_2O_5$ (204.18). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**8776 L- γ -Glutamyl-L-hypoglycin**

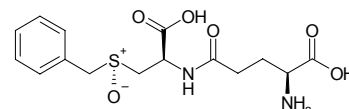
$C_{12}H_{18}N_2O_5$ (270.29). Pharm: Supertoxic agent. Source: XI FEI LI ZHI GUO *Blighia sapida*. Ref: 658.

**8777 γ -L-Glutamyl-petiveriin A**

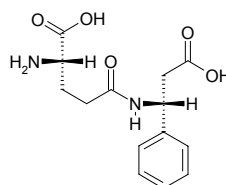
($S_{C_2}R_{C_7}R_S$)- γ -Glutamyl-S-benzylcysteine sulfoxide $C_{15}H_{20}N_2O_6S$ (356.40). White hygroscopic solid, mp 126~129°C, $[\alpha]_D^{22} = +3.2^\circ$ ($c = 0.06$, H_2O). Source: SUAN CHOU MU JI CAO *Petiveria alliacea* (root). Ref: 5322.

**8778 γ -L-Glutamyl-petiveriin B**

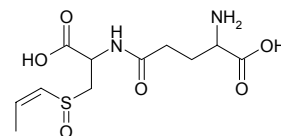
($S_{C_2}R_{C_7}S_S$)- γ -Glutamyl-S-benzylcysteine sulfoxide $C_{15}H_{20}N_2O_6S$ (356.40). White hygroscopic solid, mp 138~140°C, $[\alpha]_D^{22} = -26.2^\circ$ ($c = 0.06$, H_2O). Source: SUAN CHOU MU JI CAO *Petiveria alliacea* (root). Ref: 5322.

**8779 γ -L-Glutamyl-L-phenylalanine**

$C_{14}H_{18}N_2O_5$ (294.31). mp 164~174°C (dec). Source: DI YANG QUE *Lotus corniculatus*. Ref: 6, 1521.

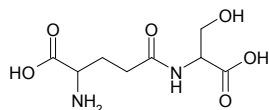
**8780 γ -L-Glutamyl-S-(prop-1-enyl)cystein sulfoxide**

$C_{11}H_{18}N_2O_6S$ (306.34). Source: TAN XIANG *Santalum album*. Ref: 6.

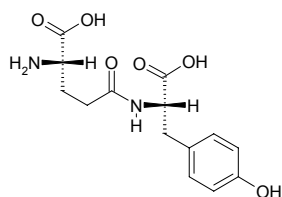


8781 γ -Glutamyl-serine

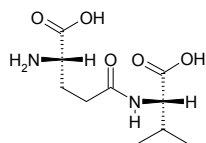
$C_8H_{14}N_2O_6$ (234.21). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**8782 γ -L-Glutamyl-L-tyrosine**

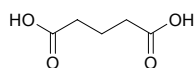
[6720-09-8] $C_{14}H_{18}N_2O_6$ (310.31). mp 221~222°C (dec), $[\alpha]_D^{31} = +26.6^\circ$ (c = 4). Source: DI YANG QUE *Lotus corniculatus*. Ref: 6, 1521.

**8783 γ -Glutamyl-valine**

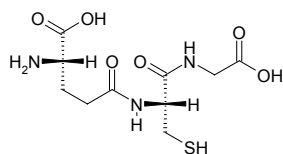
[2746-34-1] $C_{10}H_{18}N_2O_5$ (246.27). mp 207°C, $[\alpha]_D = 0^\circ$ (c = 2.4, H₂O). Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 1521.

**8784 Glutaric acid**

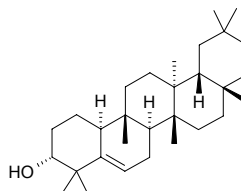
Pentanedioic acid [110-94-1] $C_5H_8O_4$ (132.12). mp 97~98°C, bp 302~304°C. Pharm: Toxin. Source: TIAN CAI *Beta vulgaris*, NING MENG AN YE *Eucalyptus citriodora*. Ref: 6, 658.

**8785 Glutathione**

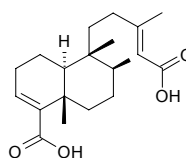
γ -L-Glutamyl-L-cysteinylglycine; Glutamid; Glutinal; Triptide; Tathion [70-18-8] $C_{10}H_{17}N_3O_6S$ (307.33). mp 195°C (50% ethanol), $[\alpha]_D^{25} = -18.9^\circ$ (c = 4.653, water), $[\alpha]_D^{27} = -21^\circ$ (c = 2.74), easily soluble in water, diluted ethanol, liquid ammonia, dimethylformamide.^[5507] Pharm: Has an important role in normal metabolic processes; antidote (from poisoning by sulfhydryl enzyme). Source: MU LI ROU *Ostrea rivularis*; *Ostrea talienshanensis*; *Ostrea gigas*, XIAO BAI BU *Asparagus officinalis*. Ref: 6, 658, 1521, 5507.

**8786 α -Glutenol**

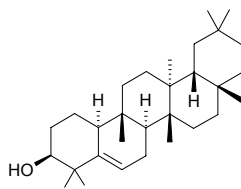
Glut-5-en-3 α -ol $C_{30}H_{50}O$ (426.73). mp 203~205°C. Source: BA WANG BIAN *Euphorbia royleana*, XI YE DA JI *Euphorbia esula* var. *cyprisoides*. Ref: 6, 1521.

**8787 Glutinic acid**

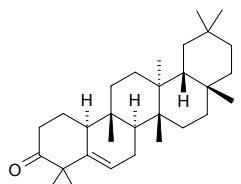
$C_{20}H_{30}O_4$ (334.46). White acicular Crystals, mp 119~120°C, easy soluble in acetone and pyridine. Source: NIAN YE YOU⁽²⁾ *Caryopteris glutinosa*. Ref: 248.

**8788 β -Glutinol**

Glutin-5-en-3 β -ol $C_{30}H_{50}O$ (426.73). White amorphous material, mp 211°C, mp 212°C, $[\alpha]_D^{25} = 63.3^\circ$ (c = 0.71, CHCl₃). Pharm: Anti-inflammatory (modified assay of Tan and Berridge, 400 μ g/mL, InRt = 11.44%, control Aspirin, InRt = 70.45%)^[5316]; cell viability (hmn isolated neutrophils, 12.5 μ g/mL, cell viability = 100%, 100 μ g/mL, cell viability = 100%, 200 μ g/mL, cell viability = 72.29%)^[5316]. Source: BA WANG BIAN *Euphorbia royleana*, CHI YANG *Alnus japonica*, MENG GU LI *Quercus mongolica*, SONG LUO *Usnea longissima*, TAI WAN XIU XIAN JU *Spiraea formosana*. Ref: 6, 611, 2575, 5316.

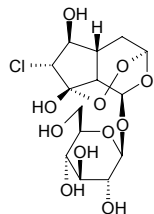
**8789 Glutinone**

[508-09-8] $C_{30}H_{48}O$ (424.72). mp 245~246°C. Source: LONG XU CAO *Poa sphondylodes*. Ref: 6.

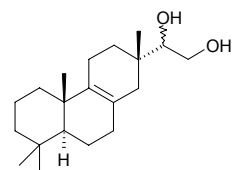


8790 Glutinoside

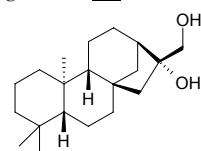
[103744-80-5] $C_{14}H_{21}ClO_{11}$ (400.70). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 2.

**8791 Glutinosin**

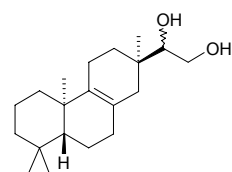
$C_{20}H_{34}O_2$ (306.49). mp 89~90°C, $[\alpha]_D^{22} = +57.60^\circ$ ($c = 1.03$, $CHCl_3$). Source: JIAO NIAN XIANG CHA CAI *Isodon glutinosa*. Ref: 4067.

**8792 Glutinosin A**

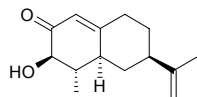
$C_{20}H_{34}O_2$ (306.49). mp 190°C. Source: JIAO NIAN XIANG CHA CAI *Isodon glutinosa*. Ref: 4067.

**8793 Glutinosin B**

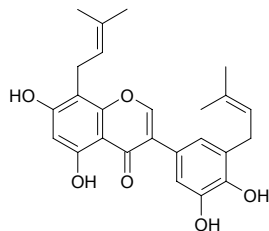
$C_{20}H_{34}O_2$ (306.49). $[\alpha]_D = +59.6^\circ$. Source: JIAO NIAN XIANG CHA CAI *Isodon glutinosa*. Ref: 4067.

**8794 Glutinosone**

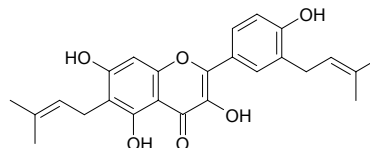
[55051-94-0] $C_{14}H_{20}O_2$ (220.31). Pharm: Antifungal. Source: JIAO YAN CAO *Nicotiana glutinosa*. Ref: 658.

**8795 Glyarallin B**

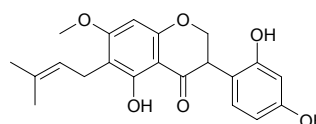
$C_{25}H_{26}O_6$ (422.48). Source: GAN CAO *Glycyrrhiza Uralensis*. Ref: 2431.

**8796 Glyasperin A**

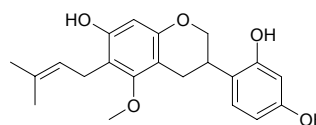
$C_{25}H_{26}O_6$ (422.48). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8797 Glyasperin B**

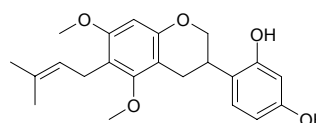
$C_{21}H_{22}O_6$ (370.41). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8798 Glyasperin C**

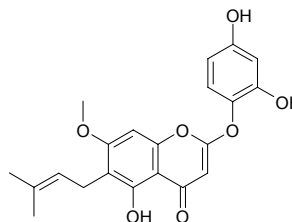
$C_{21}H_{24}O_5$ (356.42). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8799 Glyasperin D**

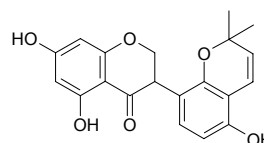
$C_{22}H_{26}O_5$ (370.45). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8800 Glyasperin E**

$C_{21}H_{20}O_7$ (384.39). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

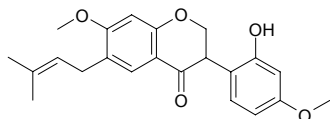
**8801 Glyasperin F**

$C_{20}H_{18}O_6$ (354.36). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

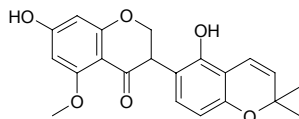


8802 Glyasperin K

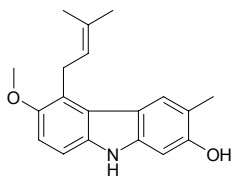
$C_{22}H_{24}O_5$ (368.43). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8803 Glyasperin M**

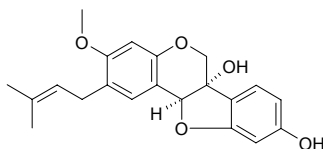
$C_{21}H_{20}O_6$ (368.39). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 2431.

**8804 Glybomine B**

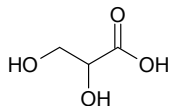
$C_{19}H_{21}NO_2$ (295.38). Pharm: Anti-HIV ($CC_{50} = 13.62\mu\text{g/mL}$, $IC_{50} = 9.73\mu\text{g/mL}$, $SI = 1.40$; control AZT, $CC_{50} = 794.2\mu\text{g/mL}$, $IC_{50} = 0.131\mu\text{g/mL}$, $SI = 6100$). Source: MENG DA NA SHAN XIAO JU *Glycosmis montana* (twig and leaf). Ref: 5266.

**8805 Glyceollin IV**

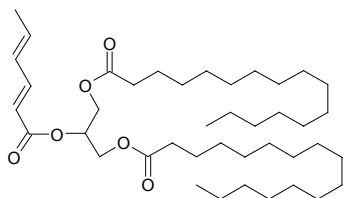
[69393-94-8] $C_{21}H_{22}O_5$ (354.41). Not crystalline. Pharm: Antifungal. Source: HEI DA DOU *Glycine max*. Ref: 661.

**8806 D-Glyceric acid**

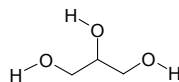
[600-19-1] $C_3H_6O_4$ (106.08). Pharm: Diuretic (rbt). Source: CAN DOU *Vicia faba*, CAN DOU JIA KE *Vicia faba*, CAN DOU JING *Vicia faba*, CAN DOU YE *Vicia faba*, PU⁽²⁾ TAO *Vitis vinifera*, PU TAO TENG YE *Vitis vinifera*, YI ZHU QIAN MA *Urtica dioica*. Ref: 6, 658, 660.

**8807 Glyceride-1,3-dipalmito-2-sorbate**

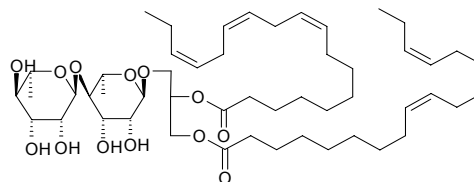
$C_{41}H_{74}O_6$ (663.04). Colorless acicular crystals, mp 62.0–62.5°C (petroleum spirit–acetic ester). Source: DI SHAO GUA *Cynanchum thesioides*. Ref: 236.

**8808 Glycerol**

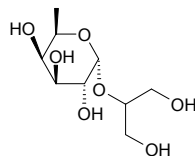
[56-81-5] $C_3H_8O_3$ (92.10). mp 17.8°C, bp 290°C (dec). Pharm: Vasodilator. Source: BAI YAO ZI *Stephania cepharantha*, JIU Liquor, SHI LI ZI *Aleurites moluccana*, SHI LIU GEN *Punica granatum*, SHI LUO ZI *Anethum graveolens* (fruit). Ref: 6, 4177.

**8809 Glycerol- α,β -dilinolenate- α' -rhamno-rhamnoside**

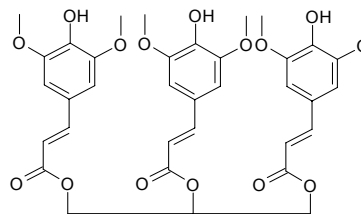
$C_{51}H_{84}O_{13}$ (905.23). White powder. Source: SU MI *Setaria italica*. Ref: 2120.

**8810 Glycerol 2-O- α -L-fucopyranoside**

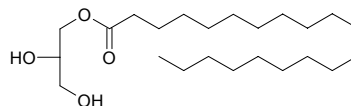
$C_9H_{18}O_7$ (238.24). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

**8811 Glycerol sinapate**

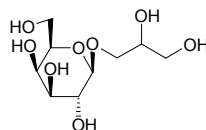
$C_{36}H_{38}O_{15}$ (710.70). Source: LAI FU ZI *Raphanus sativus*. Ref: 6.

**8812 Glyceryl-1-eicosanoate**

$C_{23}H_{46}O_4$ (386.62). White amorphous powder. Source: DUO CI HUANG HUA REN *Sida spinosa*. Ref: 2043.

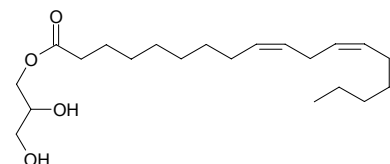
**8813 (2R)-1-O-Glyceryl- β -D-galactoside**

$C_9H_{18}O_8$ (254.24). Amorphous white powder, $[\alpha]_D = -7.5^\circ$ ($c = 0.90$, H_2O). Source: FEI YUE GUO *Feijoa sellowiana* (leaf). Ref: 3878.

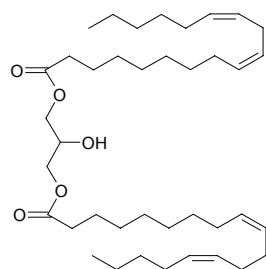


8814 Glyceryl linolenate I

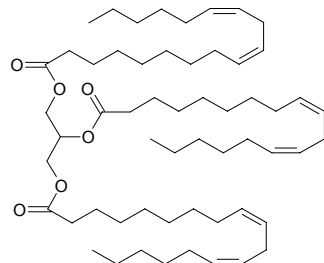
1-*O*-(9*Z*,12*Z*-Octadecadienoyl) glycerol C₂₁H₃₈O₄ (354.53). [α]_D²⁰ = +0.1° (*c* = 0.5, CHCl₃), mp (β) 15.7°C, (β') -13.5°C. **Pharm:** COX-1 inhibitor (IC₅₀ = 13.3µg/mL, control *trans*-Resveratrol, IC₅₀ = 0.25µg/mL)^[5030], COX-2 inhibitor (IC₅₀ = 0.18µg/mL, control *trans*-Resveratrol, IC₅₀ = 0.30µg/mL)^[5030]; cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100µmol/L)^[4607]. **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.004%dw), LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed), YU ZHI ZI *Akebia quinata*. **Ref:** 6, 4607, 5030.

**8815 Glyceryl linolenate II**

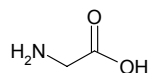
Dilinolenin C₃₉H₆₈O₅ (616.97). mp -12.3°C. **Source:** YU ZHI ZI *Akebia quinata*. **Ref:** 6.

**8816 Glyceryl linolenate III**

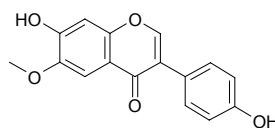
Trilinoleyl glyceride [537-40-6] C₅₇H₉₈O₆ (879.41). **Source:** BAI SU ZI *Perilla frutescens*, YU ZHI ZI *Akebia quinata*, ZANG SAN QI *Panax pseudo-ginseng*. **Ref:** 6, 743.

**8817 Glycine**

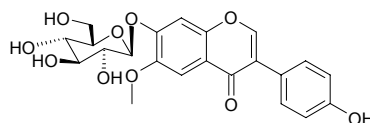
Aminoethanoic acid [56-40-6] C₂H₅NO₂ (75.07). mp 262°C (dec). **Pharm:** Metabolic intermediate. **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.72%~1.05%, mean content = 0.91%)^[5521], CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, GOU QI ZI *Lycium chinense*, LONG KUI *Solanum nigrum*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], QIU HUA DANG SHEN *Codonopsis subglobosa*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*]. **Ref:** 6, 658, 660, 5521.

**8818 Glycitein**

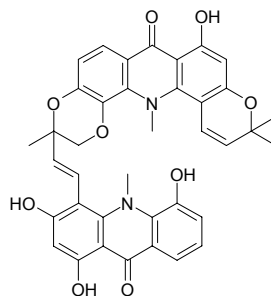
[40957-83-3] C₁₆H₁₂O₅ (284.27). mp 311~313°C (90% ethanol). **Pharm:** Antihemolytic; lipoxygenase inhibitor; anti-inflammatory (NO production inhibitor)^[4415]. **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0025%dw)^[4630], HEI DA DOU *Glycine max*. **Ref:** 661, 4415, 4630.

**8819 Glycitin**

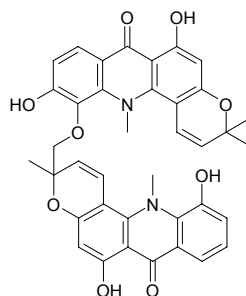
Glycitein-7-*O*- β -D-glucoside [40246-10-4] C₂₂H₂₂O₁₀ (446.41). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0020%dw). **Ref:** 4630.

**8820 Glycobismine F**

C₃₈H₃₂N₂O₉ (660.69). Yellow oil, [α]_D = 0° (*c* = 0.174, CHCl₃). **Source:** SHAN XIAO JU *Glycosmis citrifolia* (root). **Ref:** 4270.

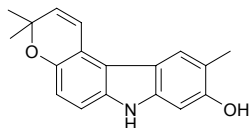
**8821 Glycobismine G**

C₃₈H₃₂N₂O₉ (660.69). Yellow oil, [α]_D = 0° (*c* = 0.13, CHCl₃). **Source:** SHAN XIAO JU *Glycosmis citrifolia* (root). **Ref:** 4270.

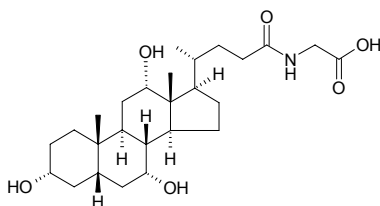


8822 Glycoborinine

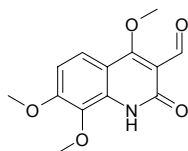
$C_{18}H_{17}NO_2$ (279.34). **Pharm:** Anti-HIV ($CC_{50} = 20.69\mu\text{g/mL}$, $IC_{50} = 4.47\mu\text{g/mL}$, $SI = 4.63$; control AZT, $CC_{50} = 794.2\mu\text{g/mL}$, $IC_{50} = 0.131\mu\text{g/mL}$, $SI = 6100$). **Source:** MENG DA NA SHAN XIAO JU *Glycosmis montana* (twig and leaf). **Ref:** 5266.

**8823 Glycocholic acid**

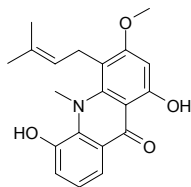
[475-31-0] $C_{26}H_{43}NO_6$ (465.64). mp 165~168°C (anhydrous), mp 230~240°C (sodium salt). **Source:** NIU DAN *Bos taurus domesticus*; *Bubalus bubalis*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: mean content = 0.26%). **Ref:** 6, 5508.

**8824 Glycoctritidine**

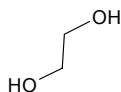
$C_{13}H_{13}NO_5$ (263.25). **Pharm:** Cytotoxic (P_{388} cell line, $ED_{50} = 9.2\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.06\mu\text{g/mL}$; HT29, $ED_{50} = 42.1\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.07\mu\text{g/mL}$; A549, $ED_{50} = 0.52\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.08\mu\text{g/mL}$). **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.

**8825 Glycoctritine I**

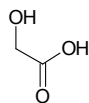
$C_{20}H_{21}NO_4$ (339.39). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

**8826 Glycol**

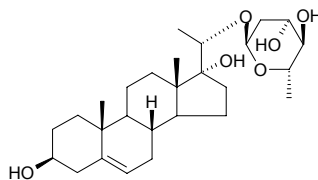
Ethandiol [107-21-1] $C_2H_6O_2$ (62.07). mp -11.5°C, bp 197°C. **Source:** XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*]. **Ref:** 6.

**8827 Glycolic acid**

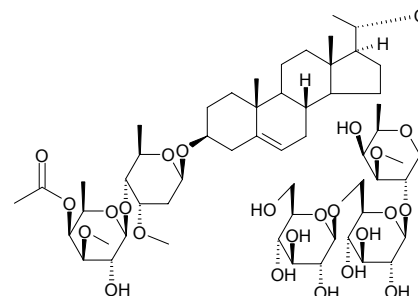
Hydroxyacetic acid [79-14-1] $C_2H_4O_3$ (76.05). mp 80°C. **Pharm:** Irritant (to skin and mucosa). **Source:** GAN ZHE *Saccharum sinensis*, HAN QIN *Apium graveolens*, MENG GU SHAN LUO BO *Scabiosa comosa*. **Ref:** 6, 658.

**8828 Glycoside E**

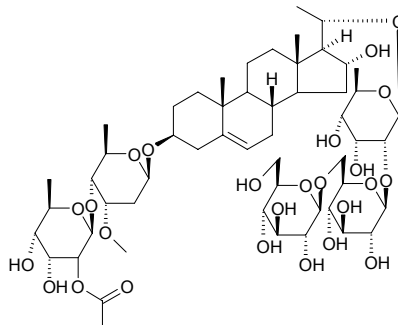
$C_{27}H_{44}O_6$ (464.65). mp 239~240°C. **Source:** XIANG JIA PI *Periploca sepium*. **Ref:** 6.

**8829 Glycoside H₁**

3-*O*-[4-*O*-Acetyl-3-*O*-methyl-β-*D*-fucopyranosyl-(1→4)-2,6-dideoxy-3-*O*-methyl-β-*D*-ribo-hexopyranoside] 20-*O*-[β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranosyl-(1→2)-3-*O*-methyl-β-*D*-fucopyranoside] [37074-77-4] $C_{56}H_{92}O_{24}$ (1149.34). mp 182°C. **Source:** XIANG JIA PI *Periploca sepium*. **Ref:** 6.

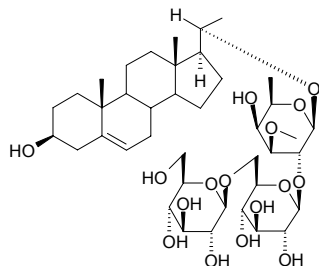
**8830 Glycoside H₂**

$C_{54}H_{88}O_{25}$ (1137.29). mp 191~192°C, $[\alpha]_D = -25.9^\circ$. **Source:** XIANG JIA PI *Periploca sepium*. **Ref:** 2498.

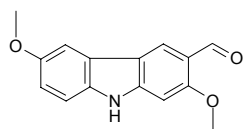


8831 Glycoside K (Periplocae)

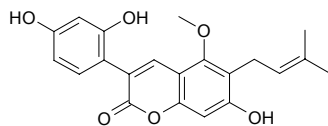
$C_{40}H_{66}O_{16}$ (802.96). mp 240~241°C. Source: XIANG JIA PI *Periploca sepium*.
Ref: 6.

**8832 Glycozolidal**

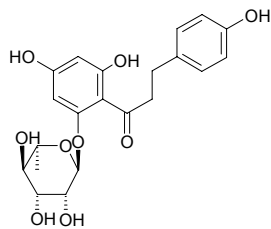
2,6-Dimethoxy-9*H*-Carbazole-3-carboxaldehyde; 2,6-Dimethoxy-3-formyl-carbazole; *O*-Methylansine. [51971-09-6] $C_{15}H_{13}NO_3$ (255.28). Source: SHAN HUANG PI *Clausena excavata*. Ref: 703.

**8833 Glycoumarin**

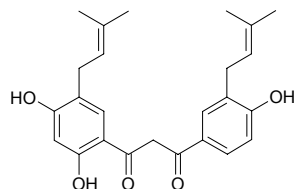
[94805-82-0] $C_{21}H_{20}O_6$ (368.39). Pharm: Antibacterial (mutational *Streptococcus*, MIC = 12.5µg/mL; *Staphylococcus aureus*, MIC = 3.13µg/mL; *Bacillus subtilis*, MIC = 6.25µg/mL); antifungal (*Candida* sp., MIC = 50µg/mL; *Saccharomyces cerevisiae*, MIC = 25µg/mL); cAMP phosphodiesterase inhibitor (IC₅₀ = 7µmol/L); free radical scavenger (IC₅₀ = 41µmol/L); anti-HIV. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1678, 1680, 1701, 1702.

**8834 Glycyphyllin**

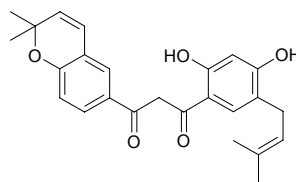
[19253-17-9] $C_{21}H_{24}O_9$ (420.42). Pharm: Bitter-sweet taste. Source: *Smilax* sp. Ref: 658.

**8835 Glycyrdione A**

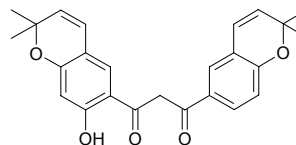
$C_{25}H_{28}O_5$ (408.50). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2431.

**8836 Glycyrdione B**

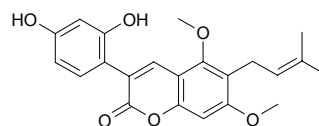
$C_{25}H_{26}O_5$ (406.48). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2431.

**8837 Glycyrdione D**

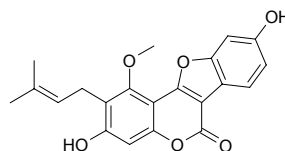
$C_{25}H_{24}O_5$ (404.47). Source: *Glycyrrhiza* sp. Ref: 2431.

**8838 Glycyrin**

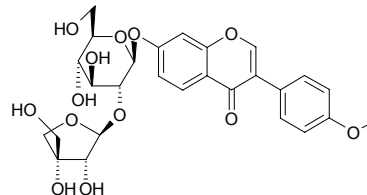
[66056-18-6] $C_{22}H_{22}O_6$ (382.42). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**8839 Glycyrol**

Neoglycyrol [23013-84-5] $C_{21}H_{18}O_6$ (366.37). Yellowish acicular crystals, mp 263~265°C; mp 243.5~245.0°C. Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 6, 181, 660, 1521.

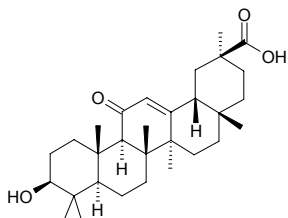
**8840 Glycyroside**

[125310-04-5] $C_{27}H_{30}O_{13}$ (562.53). Yellowish powder, mp 126~128°C. Source: HUANG GAN CAO *Glycyrrhiza kansuensis*. Ref: 133.

**8841 Glycyrrhetic acid**

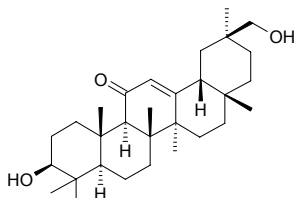
[471-53-4] $C_{30}H_{46}O_4$ (470.70). mp 297~298°C. Pharm: Adrenal cortex hormoneoid (desoxycortoneoid action); antiallergic; antibacterial (cooperates with berberine to inhibit *Staphylococcus aureus*, *in vitro*); antineoplastic (rat, transplanting Oberling-Guerin myeloma); anti-inflammatory (rat, tampon granuloma model, formaldehyde edema model, tuberculin reaction model, subcutaneous granuloma model, and swollen foot model caused by carrageenan); antiulcerative (pylorus-ligated rat); reduces serum bilirubin and

enhances output of bilirubin in urine (choledoch-ligated rat and rbt); toxin (gpg, inhibits thyroid function and reduces basal metabolism). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera* (root and rhizome: content = 0.72%)^[15], GAN CAO *Glycyrrhiza uralensis* (root and rhizome: mean content of 3 origins = 4.93%)^[15], GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 3.40%)^[15], HUANG GAN CAO *Glycyrrhiza kansuensis* (root and rhizome: content = 4.16%)^[15], YUN NAN GAN CAO *Glycyrrhiza yunnanensis* (root and rhizome: content = 2.52%)^[15], ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 3.72%)^[15]. **Ref:** 4, 15, 658, 5501.



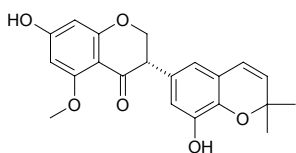
8842 Glycyrrhetol

$C_{30}H_{48}O_3$ (456.72). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2.



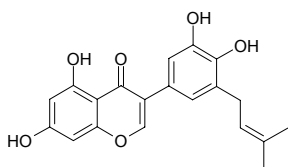
8843 Glycyrrhisoflavanone

[116709-69-4] $C_{21}H_{20}O_6$ (368.39). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2.



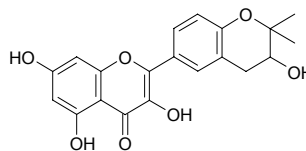
8844 Glycyrrhisoflavone

[116709-70-7] $C_{20}H_{18}O_6$ (354.36). **Pharm:** Anti-HIV (20 μ g/mL, inhibits formation of giant-cell); free radical scavenger (EC_{50} = 38 μ mol/L); xanthinoxidase inhibitor (IC_{50} = 53 μ mol/L); monoamine oxidase inhibitor (IC_{50} = 95 μ mol/L). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2, 1679, 1680, 1681, 1682.



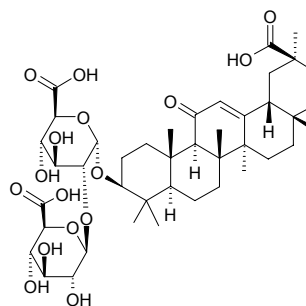
8845 Glycyrrhiza-flavonol A

[197304-01-1] $C_{20}H_{18}O_7$ (370.36). Yellow acicular crystals (methanol), mp 163°C, $[\alpha]_D = 0^\circ$ ($c = 1$, methanol). **Pharm:** DPPH scavenger (EC_{50} = 37 μ mol/L). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 1001.



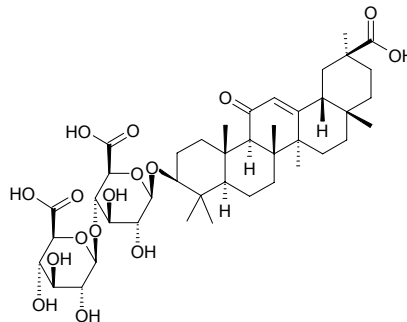
8846 Glycyrrhizic acid

Glycyrrhizin; Glycyrrhetic acid glycoside; Glycyrrhizic acid [1405-86-3] $C_{42}H_{62}O_{16}$ (822.95). White acicular crystals, mp 220°C (dec), $[\alpha]_D^{17} = +46.2^\circ$ (ethanol), easily soluble in water, ethanol, insoluble in ether.^[5507] **Pharm:** Adrenal cortex hormoneoid; antiallergic; antineoplastic; anti-HIV (0.5mg/mL InRt = 98%, 0.125mg/mL InRt = 50%); anti-inflammatory; antiviral (chickenpox virus, herpes zoster virus); antihepatotoxin (rat with CCl_4 poisoning, reduces excess SGPT); reduces accumulation of trilaurin in liver; reduces serum bilirubin and increases output of bilirubin in urine (rbt and rat, ligated in common bile duct); antihypercholesterolemic (reduces the level of cholesterol in serum); antihypertensive; smooth muscle relaxant (*in vitro* ileum in rbt and trachea in gpg, caused by histamine, acetylcholine and SRSA). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content scope of 14 origins = 2.60%~8.44%, mean content = 5.92%)^[15, 5508], GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: mean content = 4.22%)^[5508], HUANG GAN CAO *Glycyrrhiza kansuensis*, XIANG SI ZI *Abrus precatorius*, ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: mean content = 4.59%)^[15, 5508]. **Ref:** 4, 15, 658, 660, 5501, 5507, 5508.



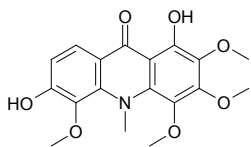
8847 Glycyrsaponin

3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -D-glucuronopyranosyl-(1 \rightarrow 4)- β -D-glucuronopyranoside [137476-70-1] $C_{42}H_{62}O_{16}$ (822.95). White powder, mp 288°C, $[\alpha]_D^{18} = +22.5^\circ$ ($c = 0.062$, methanol). **Source:** HUANG GAN CAO *Glycyrrhiza kansuensis*. **Ref:** 195.

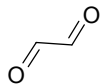


8848 Glyfoline

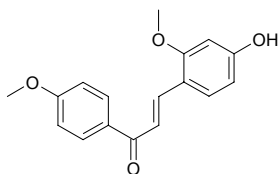
$C_{18}H_{19}NO_7$ (361.35). **Pharm:** Antineoplastic (caused tumor cell death selectively, without showing any cytotoxicity to normal fibroblasts). **Source:** SHAN XIAO JU *Glycosmis citrifolia*. **Ref:** 5042.

**8849 Glyoxal**

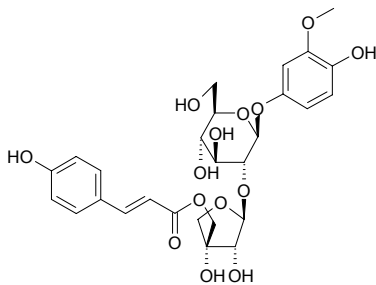
[107-22-2] $C_2H_2O_2$ (58.04). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**8850 Glypallichalcone**

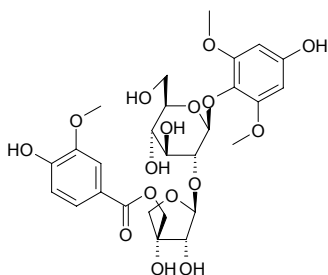
4-Hydroxy-2,4'-dimethoxychalcone $C_{17}H_{16}O_4$ (284.31). Yellow columnar Crystals, mp 140~142°C. **Source:** CI GUO GAN CAO *Glycyrrhiza pallidiflora*. **Ref:** 243.

**8851 Glypentoside A**

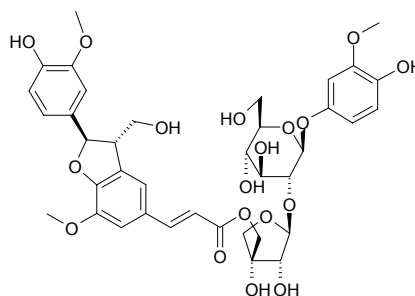
Methoxyquinol 4-*O*-[(5-*O*-*trans-p*-coumaroyl)- β -*D*-apiofuranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside] $C_{27}H_{32}O_{14}$ (580.55). Amorphous powder, $[\alpha]_D^{25} = -7.5^\circ$ ($c = 0.33$, MeOH). **Source:** JIU BING YE *Glycosmis pentaphylla* (stem). **Ref:** 4424.

**8852 Glypentoside B**

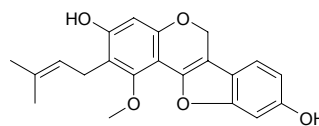
4-Demethylantiariol 4-*O*-[(3-methoxy-4-hydroxy-benzoyl)- β -*D*-apiofuranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside] $C_{27}H_{34}O_{16}$ (614.56). Amorphous powder, $[\alpha]_D^{25} = -60.7^\circ$ ($c = 0.48$, MeOH). **Source:** JIU BING YE *Glycosmis pentaphylla* (stem). **Ref:** 4424.

**8853 Glypentoside C**

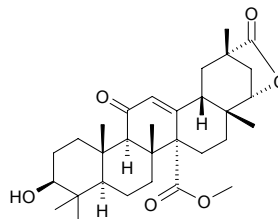
$C_{38}H_{44}O_{18}$ (788.76). Amorphous powder, $[\alpha]_D^{25} = -49.7^\circ$ ($c = 0.84$, MeOH). **Source:** JIU BING YE *Glycosmis pentaphylla* (stem). **Ref:** 4424.

**8854 Glyrallin A**

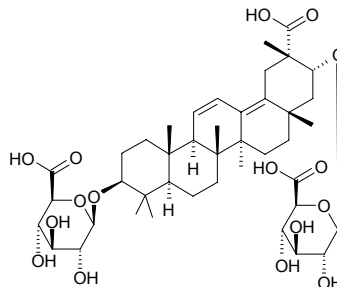
$C_{21}H_{20}O_5$ (352.39). **Source:** GAN CAO *Glycyrrhiza Uralensis*. **Ref:** 2431.

**8855 Glyuranolide**

3 β ,22 α -Dihydroxy-11-oxo- Δ^{12} -olean-ene-27 α -methoxy carbonyl-29-oic acid (29,22 α) lactone [123914-44-3] $C_{31}H_{44}O_6$ (512.69). White rhomboid crystals, mp 301~303°C, $[\alpha]_D^{14} = +46^\circ$ ($c = 0.087$). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 128, 660.

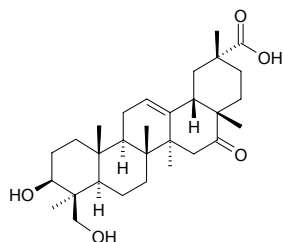
**8856 Glyyunnanprosopogenin D**

Oleana-11,13(18)-dien-29-oic acid 3 β ,21 α -*di-O*- β -*D*-glucuronopyranoside [139979-69-4] $C_{42}H_{62}O_{16}$ (822.95). **Source:** YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. **Ref:** 170.

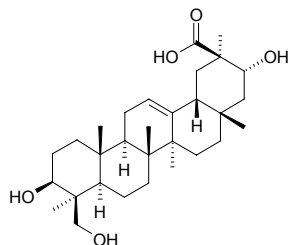


8857 Glyunnansapogenin A

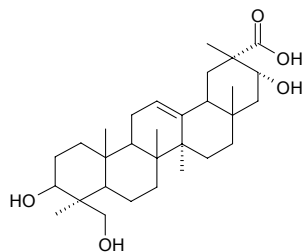
3 β ,24-Dihydroxy-16-oxo-olean-12-en-29-oic acid [131137-98-9] C₃₀H₄₆O₅ (486.70). Colorless crystals. Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 160.

**8858 Glyunnansapogenin B**

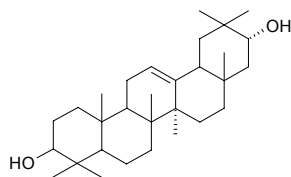
3 β ,21 α ,24-Trihydroxy-olean-12-en-30-oic acid [20528-70-5] C₃₀H₄₈O₅ (488.71). Colorless crystals, mp 287~289°C. Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 160.

**8859 Glyunnansapogenin B₁**

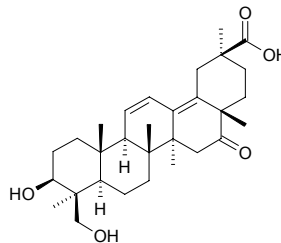
C₃₀H₄₈O₅ (488.71). White acicular crystals, mp 303~305°C. Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 321.

**8860 Glyunnansapogenin B₂**

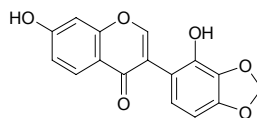
C₃₀H₅₀O₂ (442.73). White powder, mp 224~228°C. Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 321.

**8861 Glyunnansapogenin F**

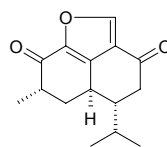
3 β ,24 α -Dihydroxy-16-oxo-oleana-11,13(18)-dien-30-oic acid [139953-40-5] C₃₀H₄₄O₅ (484.68). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 170, 1521.

**8862 Glyzaglabrin**

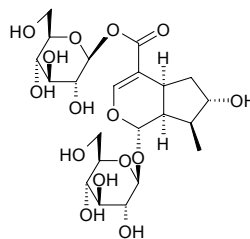
[65242-64-0] C₁₆H₁₀O₆ (298.25). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521.

**8863 Gmelofuran**

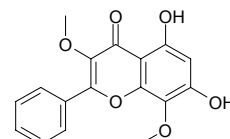
[70863-78-4] C₁₅H₁₈O₃ (246.31). Crystals, mp 122~123°C, [α]_D²⁵ = -900° (CHCl₃). Source: CHEN XIANG *Aquilaria agallocha*, GAO HONG JIN *Hibiscus elatus*, TAI WAN FU RONG *Hibiscus taiwanensis*, YUN NAN SHI ZI *Gmelina arborea*. Ref: 13, 1521, 2529.

**8864 Gmephiloside**

1-*O*-(8-Epi-loganoyl)- β -*D*-glucopyranose C₂₂H₃₄O₁₅ (538.51). White amorphous powder. Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.

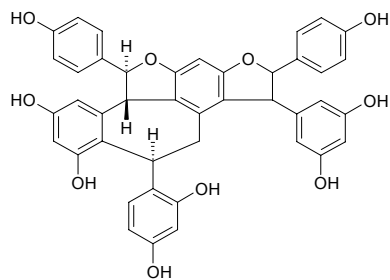
**8865 Gnaphaliin**

C₁₇H₁₄O₆ (314.30). Pharm: Anti-inflammatory^[4415]. Source: YI DA LI LA JU *Helichrysum italicum* Ref: 4415.

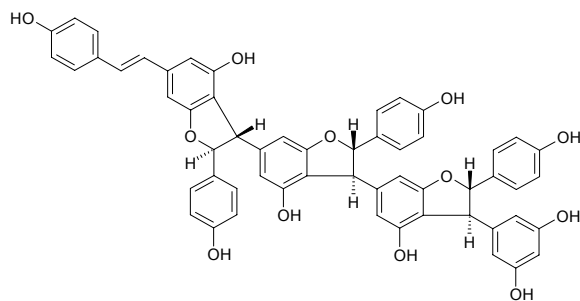


8866 Gnemonol A

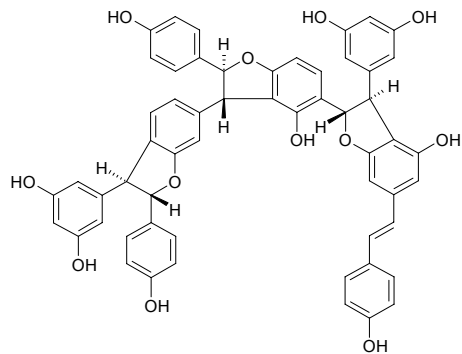
$C_{42}H_{32}O_{10}$ (696.72). White amorphous powder. Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root). Ref: 4200.

**8867 Gnemonol B**

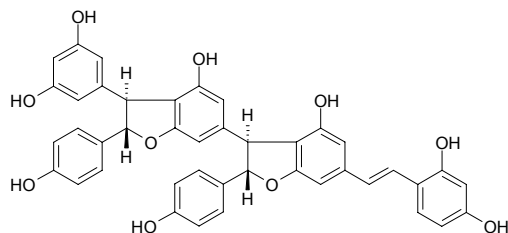
$C_{56}H_{42}O_{12}$ (906.95). White amorphous powder. Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root). Ref: 4200.

**8868 Gnemonol C**

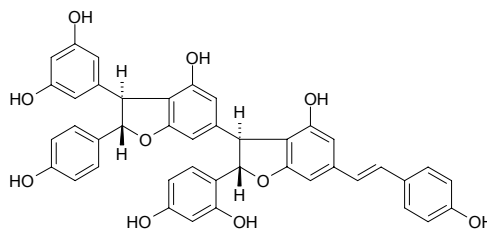
$C_{56}H_{42}O_{12}$ (906.95). White amorphous powder. Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root). Ref: 4200.

**8869 Gnemonol D**

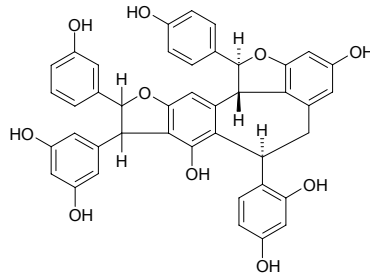
$C_{42}H_{32}O_{10}$ (696.72). White amorphous powder, $[\alpha]_D = -22^\circ$ ($c = 0.2$, MeOH). Pharm: Antioxidant (super oxide scavenger, $IC_{50} = 60\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 20\mu\text{mol/L}$; lipid peroxide inhibitory activity, $IC_{50} > 100\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 33\mu\text{mol/L}$). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root; yield = 0.0023%dw). Ref: 4306.

**8870 Gnemonol E**

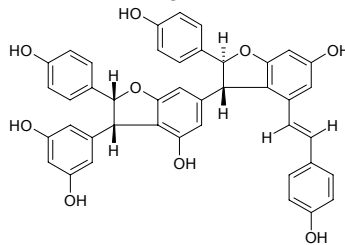
$C_{42}H_{32}O_{10}$ (696.72). White amorphous powder, $[\alpha]_D = -14^\circ$ ($c = 0.4$, MeOH). Pharm: Antioxidant (super oxide scavenger, $IC_{50} = 72\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 20\mu\text{mol/L}$; lipid peroxide inhibitory activity, $IC_{50} = 47\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 33\mu\text{mol/L}$). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root; yield = 0.0040%dw). Ref: 4306.

**8871 Gnemonol F**

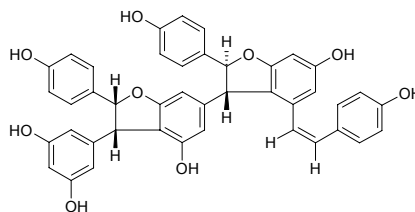
$C_{42}H_{32}O_{10}$ (696.72). White amorphous powder, $[\alpha]_D = -18^\circ$ ($c = 0.1$, MeOH). Pharm: Antioxidant (super oxide scavenger, $IC_{50} = 13\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 20\mu\text{mol/L}$; lipid peroxide inhibitory activity, $IC_{50} > 100\mu\text{mol/L}$, control ϵ -Viniferin, $IC_{50} = 33\mu\text{mol/L}$). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root; yield = 0.0005%dw). Ref: 4306.

**8872 Gnemonol K**

$C_{42}H_{32}O_9$ (680.72). Colorless amorphous powder, $[\alpha]_D = +6^\circ$ ($c = 0.72$, MeOH). Pharm: Antioxidant (superoxide anion scavenger, $IC_{50} = 69\mu\text{mol/L}$; inhibits lipid peroxidation, $IC_{50} = 19\mu\text{mol/L}$). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon*. Ref: 2045.

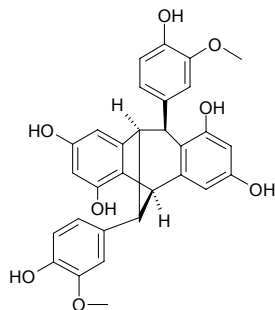
**8873 Gnemonol L**

$C_{42}H_{32}O_9$ (680.72). Colorless amorphous powder, $[\alpha]_D = +23^\circ$ ($c = 0.49$, MeOH). Pharm: Antioxidant (superoxide anion scavenger, $IC_{50} = 59\mu\text{mol/L}$; inhibits lipid peroxidation, $IC_{50} = 7\mu\text{mol/L}$). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon*. Ref: 2045.

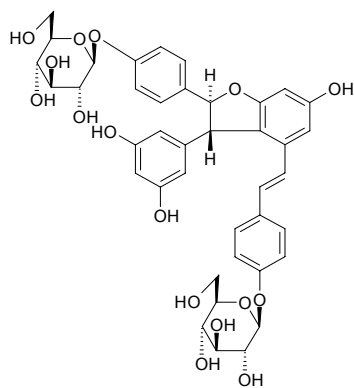


8874 Gnemonol M

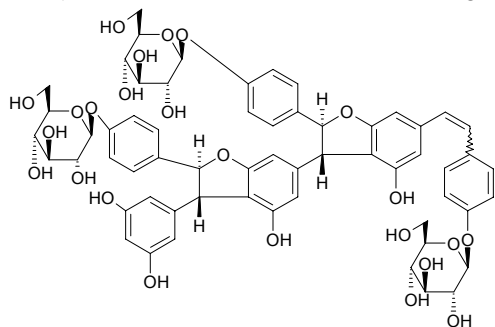
$C_{30}H_{26}O_8$ (514.54). Colorless amorphous powder, $[\alpha]_D = -28^\circ$ ($c = 0.12$, MeOH). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon*. Ref: 2045.

**8875 Gnemonoside E**

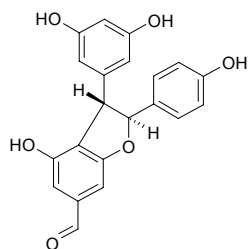
$C_{40}H_{42}O_{16}$ (778.77). Brown amorphous powder. Source: MA LAI XI YA MAI MA TENG *Gnetum gnemonoides* (stem). Ref: 4200.

**8876 Gnemonoside K**

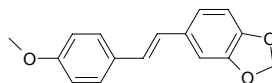
$C_{60}H_{62}O_{24}$ (1167.15). Colorless amorphous powder, $[\alpha]_D = -36^\circ$ ($c = 0.52$, MeOH). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon*. Ref: 2045.

**8877 Gnetal**

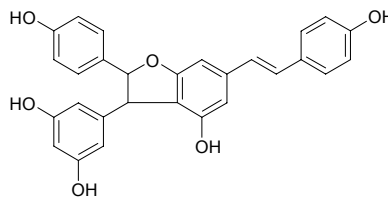
$C_{21}H_{16}O_6$ (364.36). White amorphous powder. Source: MA LAI XI YA MAI MA TENG *Gnetum gnemonoides* (stem). Ref: 4200.

**8878 Gnetin**

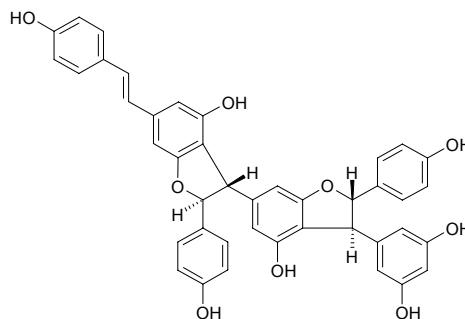
[56041-27-1] $C_{16}H_{14}O_3$ (254.29). Crystals ($CHCl_3$ -pet. ether), mp 121~122°C. Source: YIN DU MAI MA TENG *Gnetum ula*. Ref: 1521.

**8879 Gnetin C**

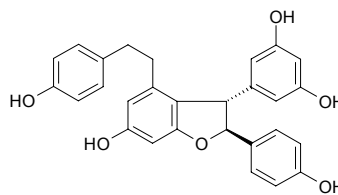
$C_{28}H_{22}O_6$ (454.48). Yellowish powder (acetone), mp 146~147°C. Source: AI DA HUANG *Rheum nanum*. Ref: 4807.

**8880 Gnetin E**

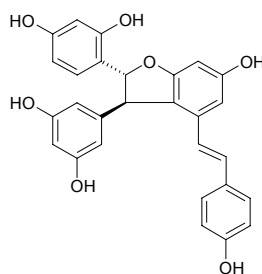
$C_{42}H_{32}O_9$ (680.72). Source: XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root), MA LAI XI YA MAI MA TENG *Gnetum gnemonoides* (stem). Ref: 4200.

**8881 Gnetin F**

$C_{28}H_{24}O_6$ (456.50). Source: BAI SUI YE *Welwitschia mirabilis*. Ref: 2233, 2234.

**8882 Gnetuhainin A**

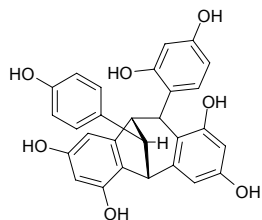
$C_{28}H_{22}O_7$ (470.48). Source: HAI NAN MAI MA TENG *Gnetum hainanense*. Ref: 2233, 2234.



8883 Gnetuhainin C

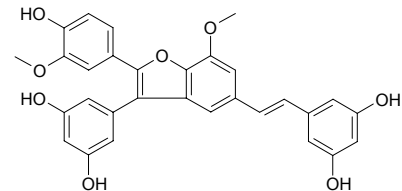
$C_{28}H_{22}O_7$ (470.48). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2233, 2234.

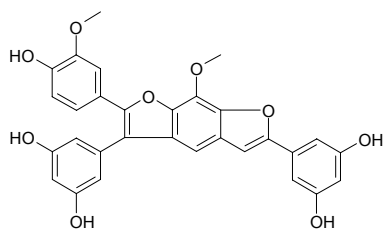
**8884 Gnetuhainin F**

$C_{30}H_{26}O_8$ (512.52). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

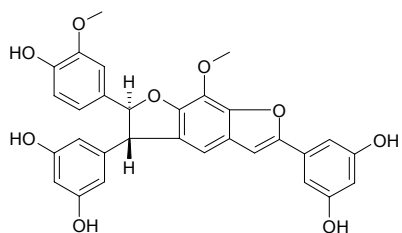
Ref: 2233, 2234.

**8885 Gnetuhainin G**

$C_{30}H_{22}O_9$ (526.50). Greenish amorphous powder, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.084$, MeOH). Source: HAI NAN MAI MA TENG *Gnetum hainanense*. Ref: 3995.

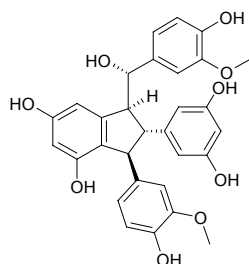
**8886 Gnetuhainin H**

$C_{30}H_{24}O_9$ (528.52). Yellowish amorphous powder, $[\alpha]_D^{25} = +16.0^\circ$ ($c = 0.072$, MeOH). Source: HAI NAN MAI MA TENG *Gnetum hainanense*. Ref: 3995.

**8887 Gnetuhainin I**

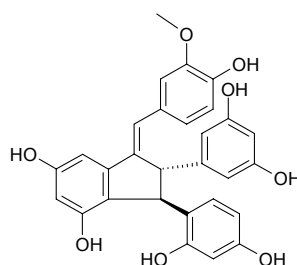
$C_{30}H_{28}O_9$ (532.55). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2234.

**8888 Gnetuhainin J**

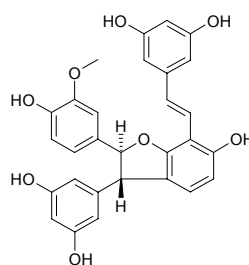
$C_{29}H_{24}O_8$ (500.51). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2234.

**8889 Gnetuhainin K**

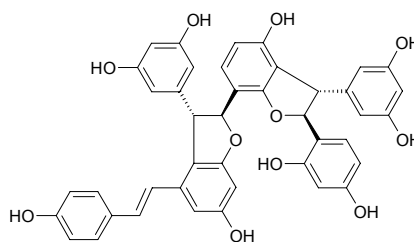
$C_{29}H_{24}O_8$ (500.51). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2234.

**8890 Gnetuhainin M**

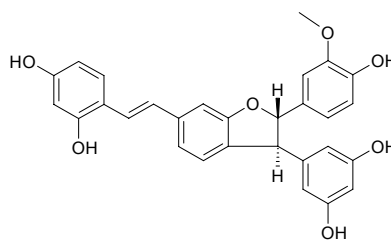
$C_{42}H_{32}O_{11}$ (712.72). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2233, 2234.

**8891 Gnetuhainin Q**

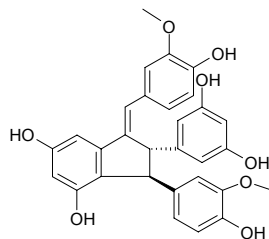
$C_{29}H_{24}O_7$ (484.51). Source: HAI NAN MAI MA TENG *Gnetum hainanense*.

Ref: 2234.

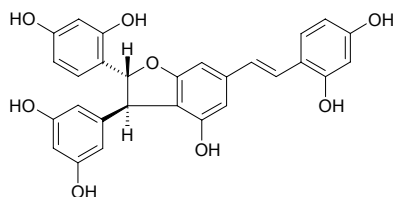


8892 Gnetulin

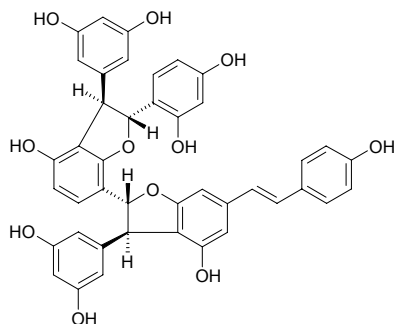
$C_{30}H_{26}O_8$ (514.54). Pale brownish amorphous solid. Source: XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark), YIN DU MAI MA TENG *Gnetum ula*. Ref: 2234, 3550.

**8893 Gnetumontanin A**

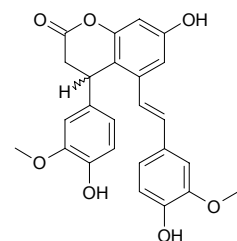
$C_{28}H_{22}O_8$ (486.48). Yellowish amorphous powder, mp 233~234°C, $[\alpha]_D^{22} = +17.0^\circ$ ($c = 0.10$, MeOH). Source: DA ZI MAI MA TENG *Gnetum montanum* f. *megalocarpum*. Ref: 4936.

**8894 Gnetumontanin B**

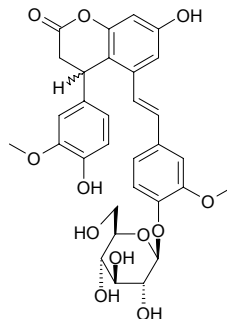
$C_{42}H_{32}O_{11}$ (712.72). Off-white amorphous powder, mp 209~210°C, $[\alpha]_D^{22} = -16.0^\circ$ ($c = 0.10$, MeOH). Pharm: TNF- α inhibitor ($IC_{50} = 1.49 \mu\text{mol/L}$)^[4936]. Source: DA ZI MAI MA TENG *Gnetum montanum* f. *megalocarpum*. Ref: 4936.

**8895 Gnetumontanin C**

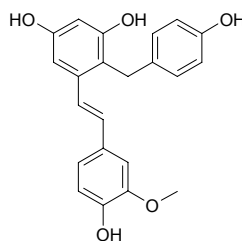
$C_{25}H_{22}O_7$ (434.45). Yellowish amorphous powder, mp 72~73°C, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.04$, MeOH). Source: DA ZI MAI MA TENG *Gnetum montanum* f. *megalocarpum*. Ref: 4936.

**8896 Gnetumontanin D**

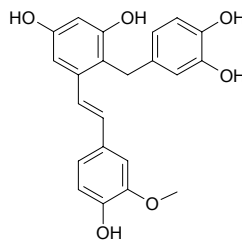
$C_{31}H_{32}O_{12}$ (596.59). Yellowish amorphous powder, $[\alpha]_D^{20} = -24.0^\circ$ ($c = 0.075$, MeOH). Source: DA ZI MAI MA TENG *Gnetum montanum* f. *megalocarpum*. Ref: 4936.

**8897 Gnetupendin A**

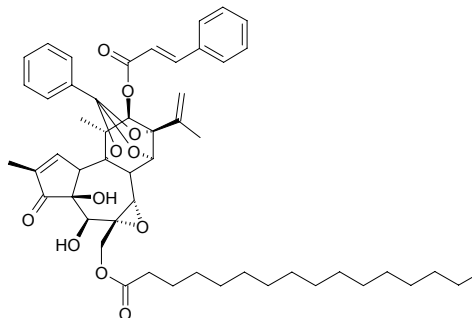
10-(4-Hydroxybenzyl)-isorhapontigenin $C_{22}H_{20}O_5$ (364.40). Pale yellow solid. Source: CHUI ZI MAI MA TENG *Gnetum pendulum*. Ref: 5199.

**8898 Gnetupendin B**

10-(3,4-Dihydroxybenzyl)-isorhapontigenin $C_{22}H_{20}O_6$ (380.40). Brown solid. Pharm: PGE₂ production inhibitor (mouse peritoneal macrophages, LPS-induced, 0.1 $\mu\text{mol/L}$, InRt = 24.4%, $P < 0.05$; control Meloxicam, $IC_{50} = 0.0286 \mu\text{mol/L}$; may have cyclo-oxygenase-2 inhibition activity). Source: CHUI ZI MAI MA TENG *Gnetum pendulum*. Ref: 5199.

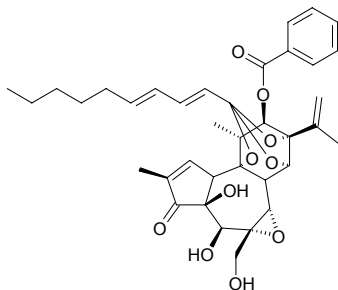
**8899 Gnidicin-20-palmitate**

$C_{52}H_{66}O_{11}$ (867.10). Amorphous powder, $[\alpha]_D^{25} = +41.7^\circ$ ($c = 0.56$, CHCl_3). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2410.

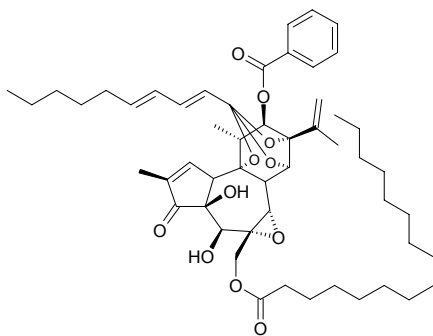


8900 Gnidilatin

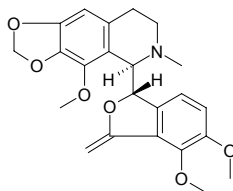
[60195-70-2] C₃₇H₄₄O₁₀ (648.76). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2410.

**8901 Gnidilatin 20-palmitate**

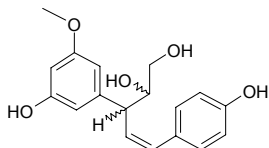
[60195-68-8] C₅₃H₇₄O₁₁ (887.17). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2410.

**8902 Gnoscopine**

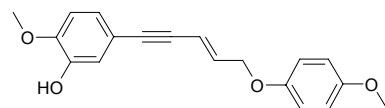
[6035-40-1] C₂₃H₂₅NO₆ (411.46). mp 232°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

**8903 Gobicusin A**

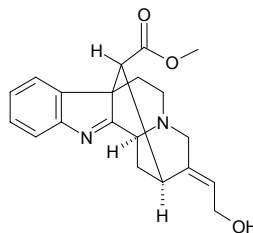
C₁₈H₂₀O₅ (316.36). Colorless gum, [α]_D²¹ = +51.6° (c = 5.50, Me₂CO). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**8904 Gobicusin B**

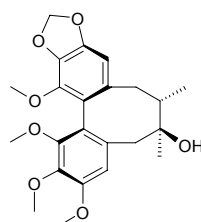
C₁₉H₁₈O₄ (310.35). White powder, mp 127–129°C (CHCl₃), [α]_D²¹ = -92.0° (c = 0.80, CHCl₃). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**8905 Gomaline**

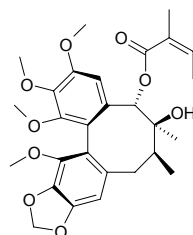
[89384-07-6] C₂₀H₂₂N₂O₃ (338.41). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2.

**8906 Gomisin A**

Wuweizi alcohol B [58546-54-6] C₂₃H₂₈O₇ (416.48). mp 54–56°C, [α]_D²² = +60.8° (c = 0.58, chloroform); mp 88–89°C, [α]_D = +67.9°. Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (7.1±0.4)% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%)^[4644]; antihepatotoxin, reduces excess SGPT (orl 100mg/kg); prevents toxicosis (mus, due to CCl₄ or thioacetamide); promotes biosynthesis of hepatic glycogen (normal hungry mus); toxin (mus, orl, 250mg/kg, mortality = 2/4; mus, ip, 250mg/kg, mortality = 2/3). Source: NEI NAN WU WEI ZI *Kadsura interior* (stem)^[4644], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: mean content of 11 origins = 0.23%)^[5508]. Ref: 2, 661, 1582, 4644, 5508.

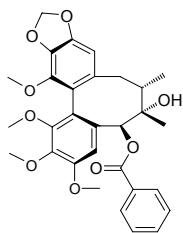
**8907 Gomisin B**

Schizantherin B; Schisantherin B; Wuweizi ester B; Schisanhenrin [58546-55-7] C₂₈H₃₄O₉ (514.58). Prismatic crystals (ether–petroleum ether), mp 88°C, [α]_D²³ = -27° (c = 1.0, chloroform); mp 97–99°C. Pharm: Antihepatotoxin (mus, orl, 50mg/(kg·d), reduces activity of SGPT); amino transferase inhibitor (mus, hepatitis induced by CCl₄)^[658]; antihepatitis (HbsAg: 100μg/mL InRt = 74.1%, 50μg/mL InRt = 28.9%, 25μg/mL InRt = 3.3%; HbeAg: 100μg/mL InRt = 34.1%, 50μg/mL InRt = 28.2%, 25μg/mL InRt = 15.7%; DMSO 2.5μl/mL, InRt = 0%)^[4397]. Source: HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, WU WEI ZI *Schisandra chinensis*, YI GENG WU WEI ZI *Schisandra henryi*, A LI SHAN WU WEI ZI *Schisandra arisanensis* (stem). Ref: 2, 4, 6, 658, 4397.

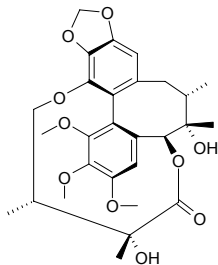


8908 Gomisin C

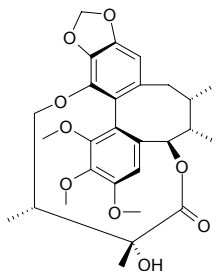
Wuweizi ester A; Schisantherin A [58546-56-8] $C_{30}H_{32}O_9$ (536.58). mp 116~118°C, 122~124°C. **Pharm:** Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (19.7±0.5)% (positive control value 32pmol, 20ng TPA =100%), viability of Raji cells = 60%)^[4644]; antihepatotoxin (mus. orl, 100mg/(kg·d), repairs hepatic injury induced by CCl₄ or thioacetamide, amino transferase inhibitor in rat). **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 12 origins = 0.03%~2.69%, mean content = 1.27%^[5508]), NEI NAN WU WEI ZI *Kadsura interior* (stem)^[4644], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 0.08%~1.95%, mean content = 0.76%^[5508]). **Ref:** 2, 4, 6, 658, 4644, 5508.

**8909 Gomisin D**

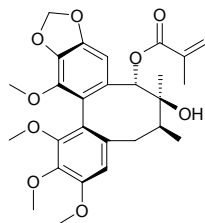
[60546-10-3] $C_{28}H_{34}O_{10}$ (530.58). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**8910 Gomisin E**

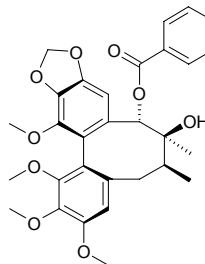
[72960-21-5] $C_{28}H_{34}O_9$ (514.58). $[\alpha]_D^{23} = +25.0^\circ$ ($c = 0.40$, $CHCl_3$). **Pharm:** NFAT transcription inhibitor ($IC_{50} = (4.73 \pm 0.09) \mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (1.20 \pm 0.29) \text{nmol}$)^[5343]. **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 5343.

**8911 Gomisin F**

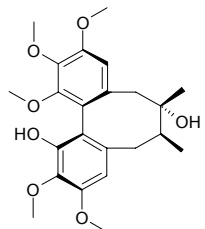
[62956-47-2] $C_{28}H_{34}O_9$ (514.58). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**8912 Gomisin G**

[62956-48-3] $C_{30}H_{32}O_9$ (536.58). Prisms (Me_2CO/Et_2O), mp 97~98°C, $[\alpha]_D^{25} = -126^\circ$ ($c = 0.427$, $CHCl_3$). **Pharm:** Antihepatitis (HbsAg: 100μg/mL InRt = 76.3%, 50μg/mL InRt = 42.4%, 25μg/mL InRt = 17.9%; HbeAg: 100μg/mL InRt = 22.1%, 50μg/mL InRt = 20.0%, 25μg/mL InRt = 6.3%; DMSO 2.5μl/mL, InRt = 0%)^[4397]; antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (18.9±0.6)% (positive control value 32pmol, 20ng TPA =100%), viability of Raji cells = 60%)^[4644]. **Source:** NEI NAN WU WEI ZI *Kadsura interior* (stem)^[4644], WU WEI ZI *Schisandra chinensis*, A LI SHAN WU WEI ZI *Schisandra arisanensis* (stem). **Ref:** 2, 1521, 4397, 4644.

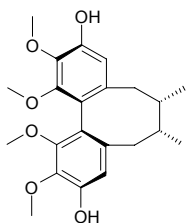
**8913 Gomisin H**

[66056-20-0] $C_{23}H_{30}O_7$ (418.49). **Pharm:** Inhibits vasomotion (dog mesenteric artery, calcium-induced vasomotion, $IC_{50} = 530 \mu\text{mol/L}$, induced by prostaglandin $F_{2\alpha}$, $IC_{50} = 41 \mu\text{mol/L}$); antihepatotoxin (rat, hepatic cells, GPT's increase induced by galactosamine, 1.0mg/mL shows weak action). **Source:** WU WEI ZI *Schisandra chinensis* (dried ripe fruit: mean content of 11 origins = 0.31%^[5508]). **Ref:** 2, 1730, 1731, 5508.

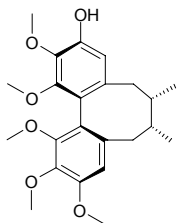


8914 Gomisin J

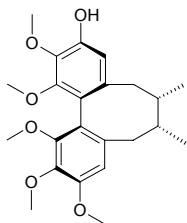
[66280-25-9] $C_{22}H_{28}O_6$ (388.46). **Pharm:** Inhibits vasomotion (dog mesenteric artery, calcium-induced vasomotion, $IC_{50} = 12\mu\text{mol/L}$, induced by prostaglandin F_{2a} , $IC_{50} = 17\mu\text{mol/L}$); increases coronary flow (anesthetic dog); antihepatotoxin (rat, hepatic cells, CCl_4 -induced increase of GPT level, 1.0mg/mL); antioxidant (mitochondria of rat hepatic cells, Fe^{2+}/VC -induced lipid peroxidization, $IC_{50} = 5.5\mu\text{mol/L}$, ADP/NADPH-induced lipid peroxidization, $IC_{50} = 4.7\mu\text{mol/L}$); cardioprotective agent (inhibits malondialdehyde (MDA) formed by abnormality of calcium concentration in cardiac muscle cells, $10\mu\text{mol/L}$); cAMP phosphodiesterase inhibitor ($IC_{50} = 136\mu\text{mol/L}$); antineoplastic (mus, TPA-induced skin tumor); anti-HIV (*in vitro*); inhibits gastric ulcer (mus, orl, 100mg/kg, gastric ulcer induced by experimental stress). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 1730, 1731, 1732, 1733, 1734, 1735, 1736.

**8915 (-)-Gomisin K₁**

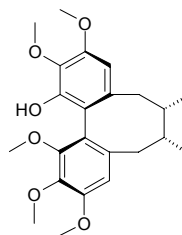
[75629-20-8] $C_{23}H_{30}O_6$ (402.49). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**8916 (+)-Gomisin K₂**

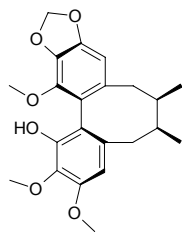
[75684-44-5] $C_{23}H_{30}O_6$ (402.49). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**8917 (+)-Gomisin K₃**

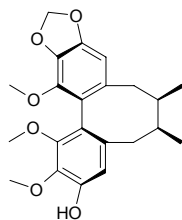
Schisanhenol; Schisanhenol [69363-14-0] $C_{23}H_{30}O_6$ (402.49). **Pharm:** Antihepatitis (HbsAg: 100 $\mu\text{g/mL}$ InRt = 76.3%, 50 $\mu\text{g/mL}$ InRt = 42.4%, 25 $\mu\text{g/mL}$ InRt = 17.9%; HbeAg: 50 $\mu\text{g/mL}$ InRt = 20.0%, 25 $\mu\text{g/mL}$ InRt = 16.1%; DMSO 2.5 $\mu\text{l/mL}$, InRt = 0%)^[4397]; antihepatotoxin (mus, orl, 200mg/kg). **Source:** A LI SHAN WU WEI ZI *Schisandra arisanensis* (stem), HONG HUA WU WEI ZI *Schisandra rubriflora*, HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 12 origins = 0.11%~7.57%, mean content = 1.07%)^[5508], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 3 origins = 0.021%~0.41%, mean content = 0.14%)^[5508]. **Ref:** 2, 2, 658, 4397, 5501, 5508.

**8918 (-)-Gomisin L₁**

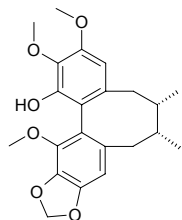
[82425-43-2] $C_{22}H_{26}O_6$ (386.45). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**8919 (-)-Gomisin L₂**

[82425-44-3] $C_{22}H_{26}O_6$ (386.45). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

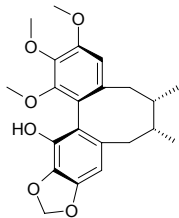
**8920 (\pm)-Gomisin M₁**

[82467-50-3] $C_{22}H_{26}O_6$ (386.45). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

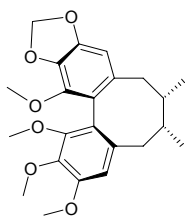


8921 (+)-Gomisin M₂

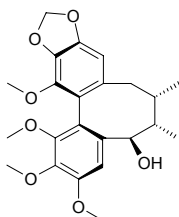
[82425-45-4] C₂₂H₂₆O₆ (386.45). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**8922 Gomisin N**

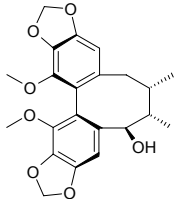
[69176-52-9] C₂₃H₂₈O₆ (400.48). $[\alpha]_D^{23} = -83.4^\circ$ ($c = 1.07$, CHCl₃). Pharm: NFAT transcription inhibitor (IC₅₀ = (1.33±0.05) μmol/L, control Cyclosporin A, IC₅₀ = (1.20±0.29) nmol/L)^[5343]. Source: WU WEI ZI *Schisandra chinensis*. Ref: 5343.

**8923 Gomisin O**

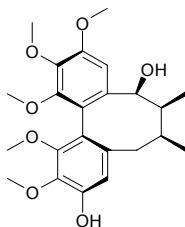
[72960-22-6] C₂₃H₂₈O₇ (416.48). Source: HONG HUA WU WEI ZI *Schisandra rubriflora*, WU WEI ZI *Schisandra chinensis*. Ref: 2, 39.

**8924 Gomisin R**

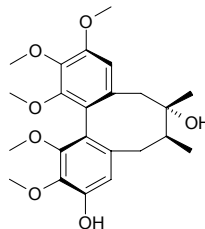
[83864-72-6] C₂₂H₂₄O₇ (400.43). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**8925 Gomisin S**

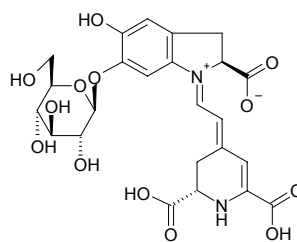
[119239-49-5] C₂₃H₃₀O₇ (418.49). Colorless rhombic Crystals, mp 172~176°C, $[\alpha]_D^{23} = -63^\circ$ ($c = 0.49$, chloroform). Pharm: Aldose reductase inhibitor (rat eye lens, 0.1ng/mL, InRt = 28%). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2, 1023.

**8926 Gomisin T**

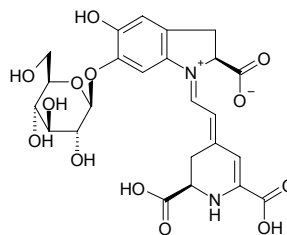
Gomisin T-ol [119139-66-1] C₂₃H₃₀O₇ (418.49). White amorphous powder, $[\alpha]_D^{23} = +60^\circ$ ($c = 0.50$, chloroform). Pharm: 5-Lipoxygenase inhibitor (100 μmol/mL, InRt = 55.6%). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2, 1023.

**8927 Gomphrenin I**

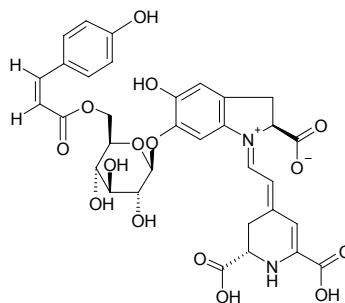
[17008-59-2] C₂₄H₂₆N₂O₁₃ (550.48). Pharm: Purple phytochrome. Source: QIAN RI HONG *Gomphrena globosa*. Ref: 15, 658.

**8928 Gomphrenin II**

[17008-60-5] C₂₄H₂₆N₂O₁₃ (550.48). Source: QIAN RI HONG *Gomphrena globosa*. Ref: 15.

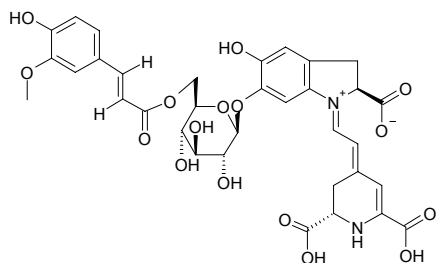
**8929 Gomphrenin III**

C₃₃H₃₂N₂O₁₅ (696.63). Source: QIAN RI HONG *Gomphrena globosa*. Ref: 6, 15.

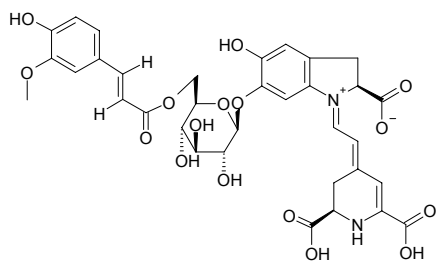


8930 Gomphrenin V

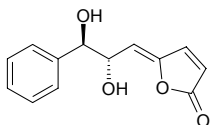
[16955-52-5] $C_{34}H_{34}N_2O_{16}$ (726.65). **Pharm:** Purple phytochrome. **Source:** QIAN RI HONG *Gomphrena globosa*. **Ref:** 6, 15, 658.

**8931 Gomphrenin VI**

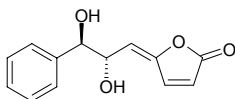
[16955-53-6] $C_{34}H_{34}N_2O_{16}$ (726.65). **Source:** QIAN RI HONG *Gomphrena globosa*. **Ref:** 6, 15.

**8932 Goniobutenolide A**

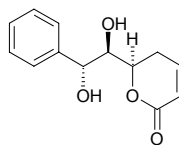
$C_{13}H_{12}O_4$ (232.24). **Pharm:** Cytotoxic (HepG2, IC_{50} = 5.83 μ g/mL, control Doxorubicin, IC_{50} = 0.38 μ g/mL; Hep3B, IC_{50} = 15.33 μ g/mL, Doxorubicin, IC_{50} = 0.36 μ g/mL; MDA-MB-231, IC_{50} = 1.36 μ g/mL, Doxorubicin, IC_{50} = 1.20 μ g/mL; MCF7, inactive). **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (stem and leaf). **Ref:** 5056.

**8933 Goniobutenolide B**

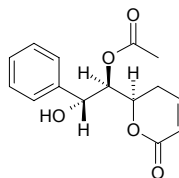
$C_{13}H_{12}O_4$ (232.24). **Pharm:** Cytotoxic (HepG2, IC_{50} = 6.68 μ g/mL, control Doxorubicin, IC_{50} = 0.38 μ g/mL; Hep3B, IC_{50} = 10.99 μ g/mL, Doxorubicin, IC_{50} = 0.36 μ g/mL; MDA-MB-231, IC_{50} = 1.40 μ g/mL, Doxorubicin, IC_{50} = 1.20 μ g/mL; MCF7, inactive). **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (stem and leaf). **Ref:** 5056.

**8934 (6R,7R,8R)-Goniodiol**

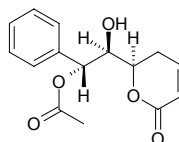
$C_{13}H_{14}O_4$ (234.25). **Pharm:** Cytotoxic (HepG2, IC_{50} = 9.15 μ g/mL, control Doxorubicin, IC_{50} = 0.38 μ g/mL; Hep3B, IC_{50} = 17.21 μ g/mL, Doxorubicin, IC_{50} = 0.36 μ g/mL; MDA-MB-231, IC_{50} = 8.80 μ g/mL, Doxorubicin, IC_{50} = 1.20 μ g/mL). **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (stem and leaf). **Ref:** 5056.

**8935 Goniodiol-7-monoacetate**

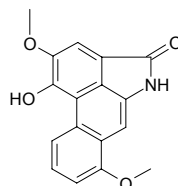
$C_{15}H_{16}O_5$ (276.29). **Pharm:** Cytotoxic (*in vitro*, NUGC, IC_{50} = 4.12 μ g/mL; HONE-1, IC_{50} = 5.69 μ g/mL; control Actinomycin, NUGC, IC_{50} = 6.61 μ g/mL; HONE-1, IC_{50} = 4.53 μ g/mL)^[4686]; cytotoxic (HepG2, inactive; Hep3B, IC_{50} = 7.85 μ g/mL, control Doxorubicin, IC_{50} = 0.36 μ g/mL; MDA-MB-231, inactive; MCF7, inactive)^[5056]. **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.028%fw; stem: yield = 0.0016%fw). **Ref:** 4686, 5056.

**8936 Goniodiol-8-monoacetate**

$C_{15}H_{16}O_5$ (276.29). **Pharm:** Cytotoxic (*in vitro*, NUGC, IC_{50} = 5.02 μ g/mL; HONE-1, IC_{50} = 6.09 μ g/mL; control Actinomycin, NUGC, IC_{50} = 6.61 μ g/mL; HONE-1, IC_{50} = 4.53 μ g/mL)^[4686]; cytotoxic (HepG2, inactive; Hep3B, IC_{50} = 4.63 μ g/mL, control Doxorubicin, IC_{50} = 0.36 μ g/mL; MDA-MB-231, IC_{50} = 8.05 μ g/mL, Doxorubicin, IC_{50} = 1.20 μ g/mL; MCF7, inactive)^[5056]. **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.0044%fw). **Ref:** 4686, 5056.

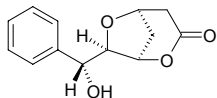
**8937 Gonioffithine**

10-Amino-2,4-dimethoxyphenanthrene-1-carboxylic acid lactam [240122-32-1] $C_{17}H_{13}NO_4$ (295.30). Yellow acicular Crystals, mp 312–314°C. **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 848, 5453.

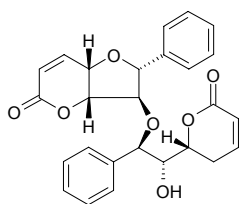


8938 Goniofupryrone A

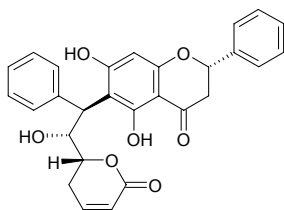
$C_{13}H_{14}O_4$ (234.25). Colorless plates, mp 154–156°C, $[\alpha]_D^{23} = -25.6^\circ$ ($c = 0.08$, MeOH). **Pharm:** Cytotoxic inactive (HepG2, Hep3B, MDA-MB-231, MCF7). **Source:** TAI WAN GE NA XIANG *Goniothalamus amuyon* (stem and leaf). **Ref:** 5056.

**8939 Goniolactone A**

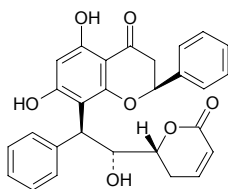
$C_{26}H_{24}O_7$ (448.48). White needles, mp 166–168°C, $[\alpha]_D^{20} = +83.6^\circ$ ($c = 0.26$, EtOH). **Pharm:** Cytotoxic (*in vitro*, showed no significant inhibitory activities toward A2780, HCT8 and KB). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00025%dw). **Ref:** 4631.

**8940 Goniolactone B**

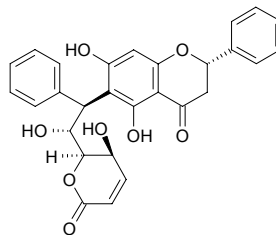
$C_{28}H_{24}O_7$ (472.5). Amorphous powder, mp 176–178°C, $[\alpha]_D^{20} = +33.7^\circ$ ($c = 0.92$, EtOH). **Pharm:** Cytotoxic (*in vitro*, A2780, $IC_{50} = 7.4 \mu\text{mol/L}$; HCT8, $IC_{50} = 4.43 \mu\text{mol/L}$; KB, $IC_{50} = 7.23 \mu\text{mol/L}$). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00029%dw). **Ref:** 4631.

**8941 Goniolactone C**

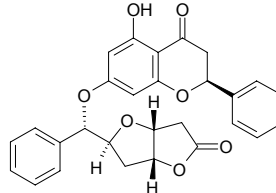
$C_{28}H_{24}O_7$ (472.5). Colorless oil, $[\alpha]_D^{20} = -53.9^\circ$ ($c = 0.71$, EtOH). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00005%dw). **Ref:** 4631.

**8942 Goniolactone D**

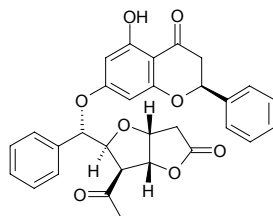
$C_{28}H_{24}O_8$ (488.5). White needles, mp 158–160°C, $[\alpha]_D^{20} = +17.6^\circ$ ($c = 0.42$, EtOH). **Pharm:** Cytotoxic inactive (*in vitro*, A2780, HCT8 and KB). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00021%dw). **Ref:** 4631.

**8943 Goniolactone E**

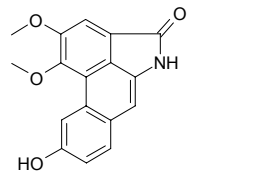
$C_{28}H_{24}O_7$ (472.5). White powder, mp 238–240°C, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.10$, EtOH). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00003%dw). **Ref:** 4631.

**8944 Goniolactone F**

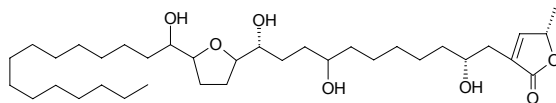
$C_{30}H_{26}O_8$ (514.54). White powder, mp 257–258°C, $[\alpha]_D^{20} = +17.6^\circ$ ($c = 0.21$, EtOH). **Pharm:** Cytotoxic inactive (*in vitro*, A2780, HCT8 and KB). **Source:** GE NA XIANG *Goniothalamus cheliensis* (root: yield = 0.00013%dw). **Ref:** 4631.

**8945 Goniolactam**

$C_{17}H_{13}NO_4$ (295.30). **Source:** *Goniothalamus* sp. **Ref:** 2447.

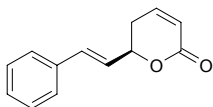
**8946 cis-Goniothalamycin**

[172586-14-0] $C_{35}H_{64}O_7$ (596.90). White amorphous powder (hexane), mp 80°C, $[\alpha]_D^{25} = 7.2^\circ$ ($c = 0.03$, chloroform). **Pharm:** Cytotoxic (A549, $IC_{50} = 0.13 \mu\text{g/mL}$, MCF7, $IC_{50} = 1.05 \mu\text{g/mL}$, HT29, $IC_{50} = 0.0053 \mu\text{g/mL}$); cytotoxic (BST, $LC_{50} = 5.2 \mu\text{g/mL}$, PD experiment, $\text{InRt} = 47\%$); cytotoxic (*in vitro* HepG2, $EC_{50} = 0.202 \mu\text{g/mL}$, Hep3B, $EC_{50} = 3.11 \mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38 \mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36 \mu\text{g/mL}$)^[5035]. **Source:** CI GUO FAN LI ZHI *Annona muricata*, SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 1062, 5035.

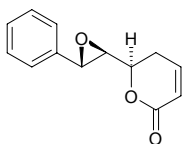


8947 Goniotalamin

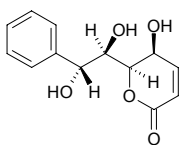
[17303-67-2] C₁₃H₁₂O₂ (200.24). White crystals, mp 85°C, [α]_D²⁵ = +170° (c = 1.38, CHCl₃); [α]_D²⁰ = -183.9° (c = 0.6, MeOH). **Pharm:** Cytotoxic (HepG2, IC₅₀ = 0.31 μg/mL, control Doxorubicin, IC₅₀ = 0.38 μg/mL; Hep3B, IC₅₀ = 1.07 μg/mL, control Doxorubicin, IC₅₀ = 0.36 μg/mL; MDA-MB-231, IC₅₀ = 1.07 μg/mL, control Doxorubicin, IC₅₀ = 1.20 μg/mL; MCF7, IC₅₀ = 4.65 μg/mL, control Doxorubicin, IC₅₀ = 2.51 μg/mL)^[5056]. **Source:** DA HUA GE NA XIANG *Goniotalamus griffithii*, JIN PING GE NA XIANG *Goniotalamus leiocarpus*, TAI WAN GE NA XIANG *Goniotalamus amuyon* (stem and leaf), TAI WAN GE NA XIANG *Goniotalamus amuyon* (fresh leaf: yield = 0.00061%fw)^[4686]. **Ref:** 420, 4686, 5056, 5453.

**8948 Goniotalamin epoxide**

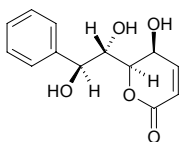
C₁₃H₁₂O₃ (216.24). **Pharm:** Cytotoxic (*in vitro*, NUGC, IC₅₀ = 32.1 μg/mL; HONE-1, IC₅₀ = 36.3 μg/mL; control Actinomycin, NUGC, IC₅₀ = 6.61 μg/mL; HONE-1, IC₅₀ = 4.53 μg/mL)^[4686]; cytotoxic (HepG2, IC₅₀ = 0.19 μg/mL, control Doxorubicin, IC₅₀ = 0.38 μg/mL; Hep3B, IC₅₀ = 3.29 μg/mL, Doxorubicin, IC₅₀ = 0.36 μg/mL; MDA-MB-231, IC₅₀ = 1.23 μg/mL, Doxorubicin, IC₅₀ = 1.20 μg/mL; MCF7, IC₅₀ = 1.94 μg/mL, Doxorubicin, IC₅₀ = 2.51 μg/mL)^[5056]. **Source:** TAI WAN GE NA XIANG *Goniotalamus amuyon* (fresh leaf: yield = 0.00035%fw; stem: yield = 0.00047%fw). **Ref:** 4686, 5056.

**8949 (5S,6R,7R,8R)-Goniotriol**

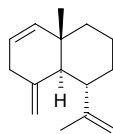
C₁₃H₁₄O₅ (250.25). **Source:** TAI WAN GE NA XIANG *Goniotalamus amuyon* (fresh leaf: yield = 0.0059%fw; stem: yield = 0.00047%fw). **Ref:** 4686.

**8950 (5S,6R,7S,8S)-Goniotriol**

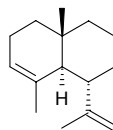
C₁₃H₁₄O₅ (250.25). **Source:** TAI WAN GE NA XIANG *Goniotalamus amuyon* (fresh leaf: yield = 0.00065%fw). **Ref:** 4686.

**8951 (5S,6S,10S)-Gorgona-1,4(15),11-triene**

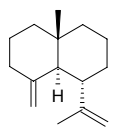
(4S,4aS,8aS)-8a-Methyl-5-methylene-4-(1-methylvinyl)-1,2,3,4,4a,5,6,8a-octa-hydro-naphthalene C₁₅H₂₂ (202.34). Colorless oil. **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

**8952 (+)-(5R,6S,10S)-α-Gorgonene**

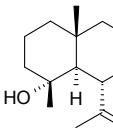
(+)-(1S,4aS,8aR)-4a,8-Dimethyl-1-(1-methylvinyl)-1,2,3,4,4a,5,6,8a-octahydro-o-naphthalene C₁₅H₂₄ (204.36). Colorless oil. **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

**8953 β-Gorgonene**

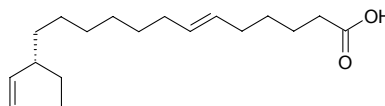
(+)-(5S,6S,10S)-β-Gorgonene C₁₅H₂₄ (204.36). **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

**8954 (-)-(4R,5R,6S,10S)-Gorgon-11-en-4-ol**

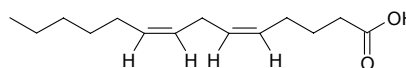
(-)-(1R,4aS,8S,9R)-1,4a-Dimethyl-8-(1-methylethenyl)-decahydro-naphthalen-1-ol C₁₅H₂₆O (222.37). Colorless oil. **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

**8955 Gorlic acid**

C₁₈H₃₀O₂ (278.44). **Pharm:** Antileprotic (inhibits *Mycobacterium leprae*). **Source:** DA FENG ZI *Hydnocarpus anthelminticus* (seed: content scope = 0.57%~1.03%). **Ref:** 5501.

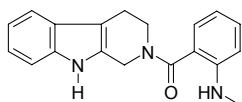
**8956 Goshuyic acid**

Goshuynic acid [39039-37-7] C₁₄H₂₄O₂ (224.35). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 6, 1521.

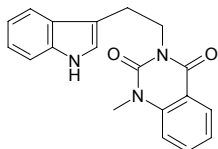


8957 Goshuyamide I

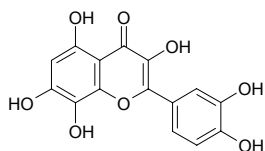
[126223-62-9] C₁₉H₁₉N₃O (305.38). Source: WU ZHU YU *Evodia rutaecarpa*.
Ref: 2, 347, 877.

**8958 GoshuyamideII**

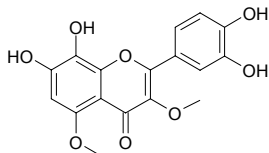
[95274-42-3] C₁₉H₁₇N₃O₂ (319.37). Source: WU ZHU YU *Evodia rutaecarpa*.
Ref: 2, 877.

**8959 Gossypetin**

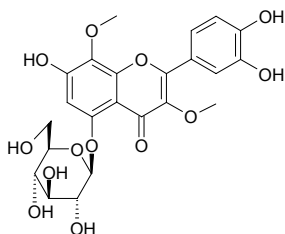
[489-35-0] C₁₅H₁₀O₈ (318.24). mp 311~313°C. Pharm: Antibacterial (*Pseudomonas maltophilia* and *Enterobacter cloacae*). Source: BAI HUA YING SHAN HONG *Rhododendron mucronatum*, HENG GEN FEI CAI *Sedum kamtschaticum*, MAN SHAN HONG *Rhododendron dauricum*, XIAO YE PI PA *Rhododendron anthopogonoides*, YING SHAN HONG *Rhododendron mucronulatum*, ZHAO SHAN BAI *Rhododendron micranthum*.
Ref: 6, 658.

**8960 Gossypetin-3,5-dimethyl ether**

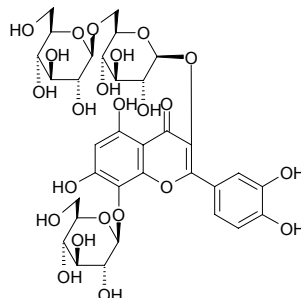
C₁₇H₁₄O₈ (346.30). Source: KE SHI FAN YING TAO *Eugenia edulis* (leaf).
Ref: 3469.

**8961 Gossypetin-3,8-dimethyl ether-5-O-beta-glucoside**

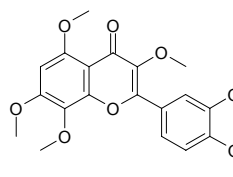
C₂₃H₂₄O₁₃ (508.44). Source: KE SHI FAN YING TAO *Eugenia edulis* (leaf).
Ref: 3469.

**8962 Gossypetin-3-beta-D-(2-O-beta-D-glucopyranosylglucopyranoside)-8-beta-D-glucopyranoside**

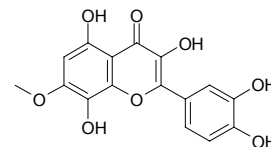
C₃₃H₄₀O₂₃ (804.67). Source: MU ZEI *Equisetum hiemale*. Ref: 2.

**8963 Gossypetin hexamethyl ether**

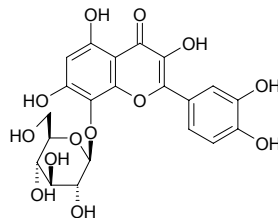
C₂₁H₂₂O₈ (402.40). mp 159~161°C, 170~171°C. Source: JI CAI *Capsella bursa-pastoris*. Ref: 6.

**8964 Gossypetin-7-methylether**

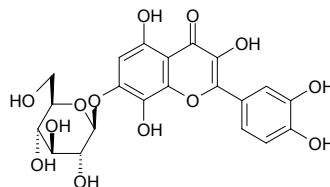
[18799-01-4] C₁₆H₁₂O₈ (332.27). Source: DI YANG QUE *Lotus corniculatus*. Ref: 6.

**8965 Gossypin**

[652-78-8] C₂₁H₂₀O₁₃ (480.39). mp 230°C (dec). Pharm: Analgesic; anti-inflammatory (reduces swollen foot and increase of blood capillary permeability caused by variety of phlogogenic agents); antiulcerative (gastric ulcer). Source: HENG GEN FEI CAI *Sedum kamtschaticum*, MO PAN CAO *Abutilon indicum*, PU TAO YE MU JIN *Hibiscus vitifolius*, YIN DU MIAN *Gossypium indicum*. Ref: 6, 661.

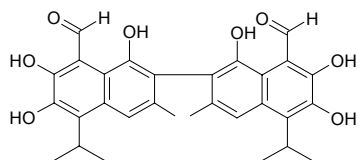
**8966 Gossypitrin**

[489-34-9] C₂₁H₂₀O₁₃ (480.39). mp 252°C. Source: MU ZEI *Equisetum hiemale*, MO PAN CAO *Abutilon indicum*, WEN JING *Equisetum arvense*. Ref: 2.

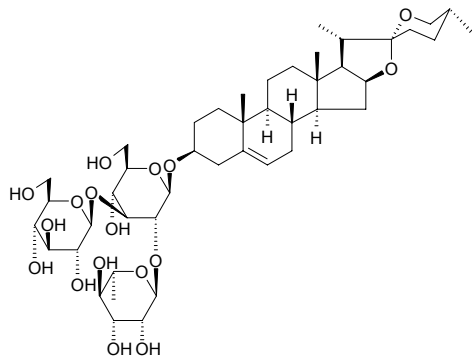


8967 Gossypol

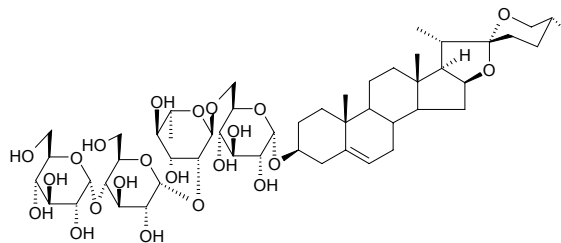
[303-45-7] $C_{30}H_{30}O_8$ (518.57). mp 184°C, 199°C, 214°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, hemolytic streptococcus); antineoplastic (mus, P₃₈₈, hystero-myoma, deciduoma caused by luteosterone); anti-fertility agent (inhibits generation and movement of sperma, *D*-isomer has no activity); antiviral (α -influenza virus PR₈ and Japanese encephalitis virus); promotes regeneration of muscle tissue (ointment); LD₅₀ (mus, orl) = 315mg/kg. **Source:** DI TANG HUA *Kerria japonica*, HAI DAO MIAN *Gossypium barbadense* [root cortex: content = 1.8%^[5508]], LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*] (root cortex: content = 1.6%^[5508]), MIAN HUA *Gossypium herbaceum*, MIAN HUA GEN *Gossypium herbaceum* (root cortex: content = 1.3%^[5508]), MIAN ZI YOU *Gossypium herbaceum* (seed: mean content of 5 batch samples = 0.13%^[5508]). **Ref:** 4, 5, 6, 658, 5508.

**8968 Gracillin**

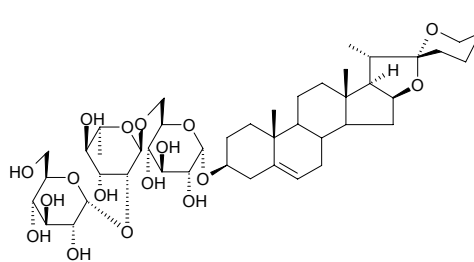
Gracilline [19083-00-2] $C_{45}H_{72}O_{17}$ (885.07). Colorless rhombic crystals (methanol), mp 287–289°C (dec); 298–302°C; 290–293°C, $[\alpha]_D^{20} = -86.2^\circ$ ($c = 0.12$, dimethylformamide). **Pharm:** Antibacterial (*Bacillus dysenteriae*, MIC = 2.5mg/mL; *Serratia marcescens*, MIC = 2.5mg/mL; *Bacillus coli*, MIC = 5.0mg/mL; drug-fast *Staphylococcus aureus*, MIC = 2.5mg/mL; sensitive *Staphylococcus aureus*, MIC = 2.5mg/mL); antifungal (*Trichophyton mentagrophytes*); cardiotoxic; cytotoxic (*in vitro*, HeLa, IC₅₀ = 12.74 μ g/mL; control Cisplatin, HeLa, IC₅₀ = 0.75 μ g/mL)^[4788]; hemolytic (extremely strong); antineoplastic (inhibits TPA-induced ³²P combines with phospholipid in HeLa cells, 5 μ g/mL, InRt = 11.5%); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 61 μ mol/L). **Source:** BA QIA *Smilax china* [Syn. *Smilax japonica*], CI JI LI *Tribulus terrestris*, DUN YE SHU YU *Dioscorea zingiberensis*, FU ZHOU SHU YU *Dioscorea futschauensis*, HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00041%)^[4692], HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00045%dw)^[4788], SHU KUI YE SHU YU *Dioscorea althaeoides*, XIAN XI SHU YU *Dioscorea gracillima*, ZHANG LIU TOU *Costus speciosus*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*, *Costus* sp. **Ref:** 6, 10, 15, 660, 900, 4692, 4788.

**8969 Graecunin E**

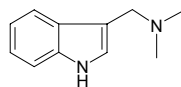
$C_{51}H_{82}O_{22}$ (1047.21). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**8970 Graecunin G**

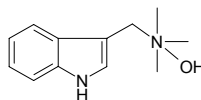
$C_{45}H_{72}O_{17}$ (885.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**8971 Gramine**

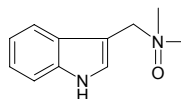
Donaxine [87-52-5] $C_{11}H_{14}N_2$ (174.25). Acicular or lamellar crystals, (acetone), mp 138–139°C, soluble in ethanol, ether, chloroform, slightly soluble in cold acetone, insoluble in petroleum ether, water.^[5507] **Pharm:** Insect antifeedant; toxin (sheep, causes Phalaris blind stagger). **Source:** HONG HUA QI *Acer rubrum*, JI MU *Loropetalum chinense*, LU ZHU GEN *Arundo donax*, MAI YA *Hordeum vulgare*, YI CAO *Phalaris arundinacea*, YIN BAI QI *Acer saccharinum*, *Lupinus* sp. **Ref:** 4, 6, 658, 5507.

**8972 Gramine methohydroxide**

$C_{12}H_{18}N_2O$ (206.29). **Source:** LU ZHU GEN *Arundo donax*. **Ref:** 6.

**8973 Gramine Nb-oxide**

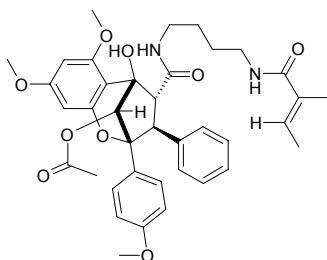
$C_{11}H_{14}N_2O$ (190.25). **Source:** LU ZHU GEN *Arundo donax*. **Ref:** 6.



8974 Grandiamide A

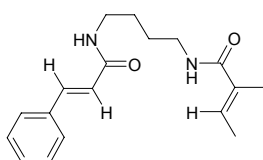
$C_{38}H_{44}N_2O_9$ (672.78). Amorphous powder, $[\alpha]_D^{25} = -108.8^\circ$ ($c = 0.25$, $CHCl_3$).

Source: JU DA MI ZI LAN *Aglaiia grandis* (leaf). Ref: 3947.

**8975 Grandiamide B**

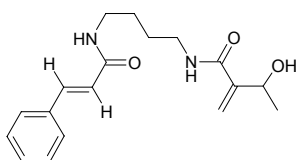
$C_{18}H_{24}N_2O_2$ (300.40). mp 99~102°C (Hexane-EtOH). Source: JU DA MI ZI

LAN *Aglaiia grandis* (leaf). Ref: 3947.

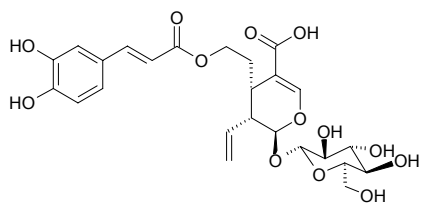
**8976 Grandiamide C**

$C_{18}H_{24}N_2O_3$ (316.40). Amorphous powder, $[\alpha]_D^{20} = \pm 0^\circ$ ($c = 1.13$, $CHCl_3$).

Source: JU DA MI ZI LAN *Aglaiia grandis* (leaf). Ref: 3947.

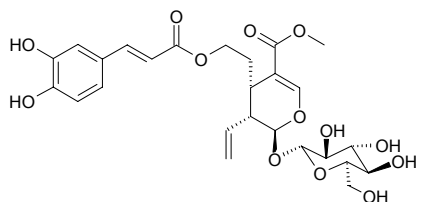
**8977 Grandifloroside**

$C_{25}H_{30}O_{13}$ (538.51). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig; yield = 0.0046%dw). Ref: 4723.

**8978 Grandifloroside 11-methyl ester**

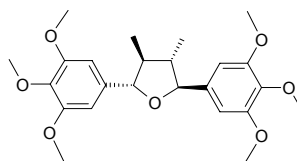
$C_{26}H_{32}O_{13}$ (552.54). Amorphous powder, $[\alpha]_D^{26} = -94^\circ$ ($c = 0.66$, MeOH).

Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig; yield = 0.0018%dw). Ref: 4723.

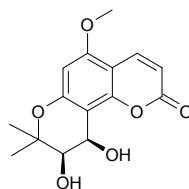
**8979 Grandisin**

[53250-50-3] $C_{24}H_{32}O_7$ (432.52). Pharm: Inhibits PAF; antitrypanosomal (trypanostigote form of *Trypanosoma cruzi* (Y strain), $IC_{50} = 8.74\mu g/mL$)^[3450].

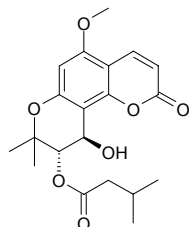
Source: DA MU JIANG ZI *Litsea grandis*, *Piper solmsianum*. Ref: 658, 3450.

**8980 cis-Grandmarin**

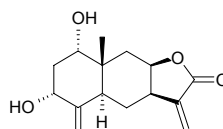
$C_{15}H_{16}O_6$ (292.29). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (41.8±1.4)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 350$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin, $IC_{50} = 341$ mol ratio/32 pmol TPA). Source: *Citrus tamurana*. Ref: 5048.

**8981 trans-Grandmarin isovalerate**

$C_{20}H_{24}O_7$ (376.41). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (42.5±1.3)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 428$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin, $IC_{50} = 341$ mol ratio/32 pmol TPA). Source: *Citrus hassaku*. Ref: 5048.

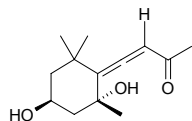
**8982 Granilin**

[40737-97-1] $C_{15}H_{20}O_4$ (264.32). Pharm: Antibacterial. Source: A SHI HAO *Artemisia ashurbajevii*, DA YE TU MU XIANG *Inula grandis*, DUO SUI TUN CAO *Ambrosia polystachya*, TIAN MING JING *Carpesium abrotanoides*. Ref: 658, 1521.

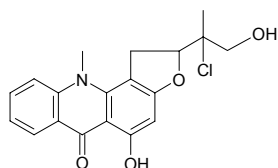


8983 Grassopperketone

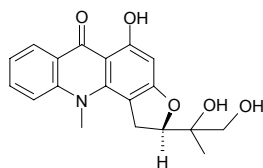
$C_{13}H_{20}O_3$ (224.30). Source: RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4502.

**8984 Gravacridonechlorine**

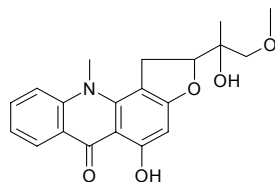
[38494-84-7] $C_{19}H_{18}ClNO_4$ (359.81). mp 254–257°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6, 2101.

**8985 Gravacridonediol**

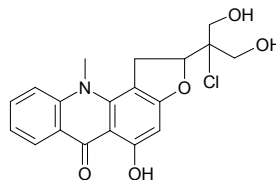
[37551-75-0] $C_{19}H_{19}NO_5$ (341.37). Yellow amorphous powder, mp 224–227°C, $[\alpha]_D = -111.1^\circ$ ($c = 0.1$, MeOH). Pharm: Antileishmanial (*Leishmania major* promastigote, 10 $\mu\text{mol/L}$, survival = (54.0 \pm 1.1)%, 1 $\mu\text{mol/L}$, survival = (97.2 \pm 2.2)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.2 \pm 0.04)%, 1 $\mu\text{mol/L}$, survival = (71.9 \pm 4.4)%; *Leishmania major* amastigote, 10 $\mu\text{mol/L}$, survival = (9.5 \pm 1.0)%, 1 $\mu\text{mol/L}$, survival = (58.0 \pm 3.1)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.4 \pm 0.02)%, 1 $\mu\text{mol/L}$, survival = (0.5 \pm 0.03)%)^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2 μg)^[3797]; algicidal (*Oscillatoria perornata*, LCIC = 10 mg/L; *Selenastrum capricornutum*, LCIC > 100 mg/L)^[5328]. Source: CHOU CAO *Ruta graveolens*, *Thamnosma rhodesica* (root). Ref: 6, 3797, 5328, 1521.

**8986 Gravacridonediol monomethyl ether**

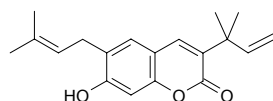
$C_{20}H_{21}NO_5$ (355.39). mp 219–221°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**8987 Gravacridonolchlorine**

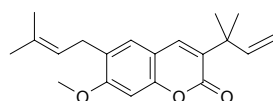
[38494-85-8] $C_{19}H_{18}ClNO_5$ (375.81). mp 233–237°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**8988 Gravelliferone**

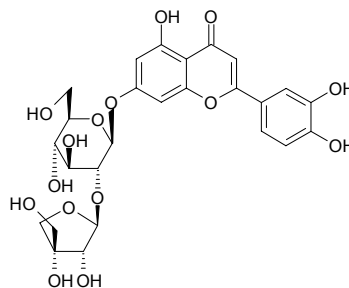
[21316-80-3] $C_{19}H_{22}O_3$ (298.39). mp 116–118°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**8989 Gravelliferone methyl ether**

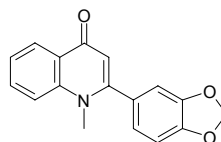
$C_{20}H_{24}O_3$ (312.41). Pharm: Vasodilator (cerebral, pig, *in vitro*). Source: SHAN MO LI YUN XIANG *Ruta oreojasme*, CHOU CAO *Ruta graveolens*. Ref: 6, 658.

**8990 Graveobioside A**

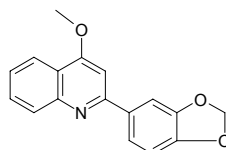
Luteolin-7-apio-glucoside [63808-23-1] $C_{26}H_{28}O_{15}$ (580.50). mp 251–252°C. Source: HAN QIN *Apium graveolens*. Ref: 6, 1521.

**8991 Graveoline**

[485-61-0] $C_{17}H_{13}NO_3$ (279.30). mp 204–205°C. Source: CHOU CAO *Ruta graveolens*, WU ZHU YU *Evodia rutaecarpa* (fruit). Ref: 6, 5031.

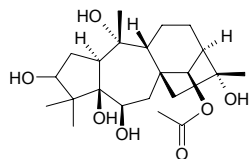
**8992 Graveolinine**

[4179-37-7] $C_{17}H_{17}NO_3$ (279.30). mp 115–116°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

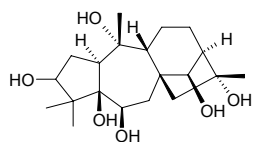


8993 Grayanotoxin I

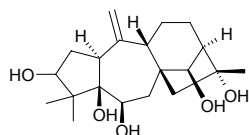
$C_{22}H_{36}O_7$ (412.53). Source: MU LI LU *Leucothoe grayana* (in 1971 the compound was isolated from the plant)^[5505]. Ref: 5505, 5507.

**8994 Grayanotoxin III**

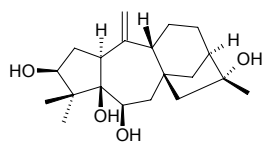
$C_{20}H_{34}O_6$ (370.49). Source: MU LI LU *Leucothoe grayana* (in 1971 the compound was isolated from the plant)^[5505], RI BEN MA ZUI MU *Pieris japonica* (in 1959 the compound was separated from the plant)^[5505]. Ref: 5505, 5507.

**8995 Grayanotoxin II**

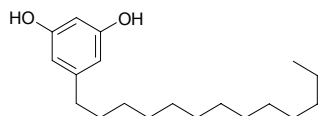
$C_{20}H_{32}O_5$ (352.48). Source: MU LI LU *Leucothoe grayana* (the compound was isolated from the plant in 1971)^[5505], NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00023%dw). Ref: 5505, 4780.

**8996 Grayanotoxin XVIII**

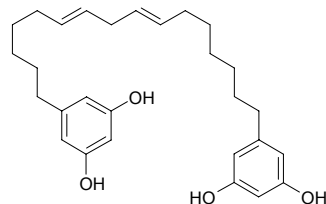
$C_{20}H_{32}O_4$ (336.48). White solid. Source: JIN YE ZI *Craibiodendron yunnanese* (leaf). Ref: 4575.

**8997 Grevillol**

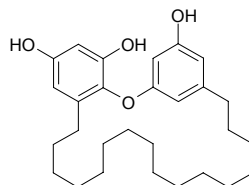
5-Tridecyl-1,3-benzenediol [5259-01-8] $C_{19}H_{32}O_2$ (292.47). Acicular crystals (benzene), mp 82~83°C. Pharm: Dermatitic (causes contact dermatitis); 5-lipoxygenase inhibitor; irritant (to skin). Source: YIN HUA *Grevillea robusta*, *Grevillea* spp. Ref: 658, 2108.

**8998 Grevirobstol A**

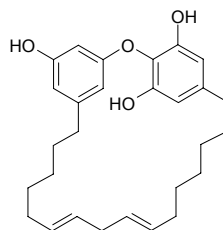
$C_{28}H_{38}O_4$ (438.61). Yellowish oil. Source: YIN HUA *Grevillea robusta* (leaf). Ref: 3905.

**8999 Grevirobstol B**

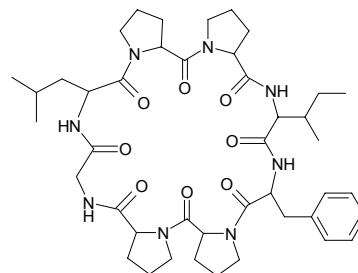
$C_{28}H_{40}O_4$ (440.63). Amorphous powder. Source: YIN HUA *Grevillea robusta* (leaf). Ref: 3905.

**9000 Grevirobstol C**

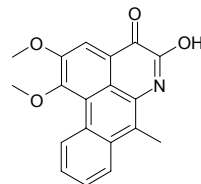
$C_{28}H_{36}O_4$ (436.60). Yellowish oil. Source: YIN HUA *Grevillea robusta* (leaf). Ref: 3905.

**9001 Grifficycloin A**

$C_{43}H_{62}N_8O_8$ (819.02). $[\alpha]_D^{20} = -132^\circ$ ($c = 0.12$, MeOH). Source: DA HUA GE NA XIANG *Goniothalamus griffithii*. Ref: 5453.

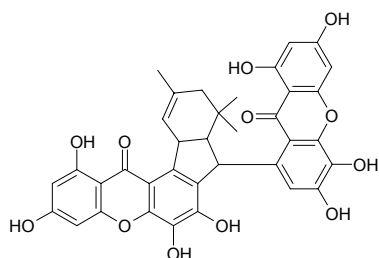
**9002 Griffinin**

$C_{19}H_{15}NO_4$ (321.34). mp > 250°C. Source: DA HUA GE NA XIANG *Goniothalamus griffithii*. Ref: 5453.

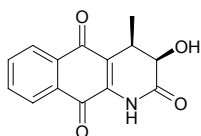


9003 Griffipavixanthone

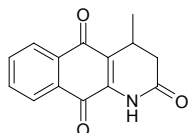
$C_{36}H_{28}O_{12}$ (652.62). **Pharm:** Antioxidant (DPPH scavenger, EC_{50} = 0.115 μ g/mL, control BHA, EC_{50} = 0.136 μ g/mL, Vitamin E, EC_{50} = 0.138 μ g/mL). **Source:** DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). **Ref:** 3874.

**9004 Griffithazanone A**

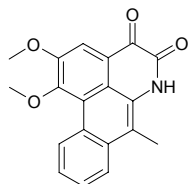
$C_{14}H_{11}NO_4$ (257.25). **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 2447.

**9005 Griffithazanone B**

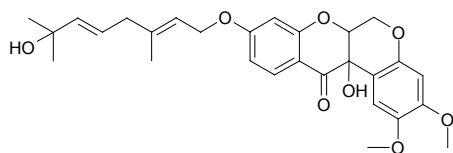
$C_{14}H_{11}NO_3$ (241.25). **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 2447.

**9006 Griffithdione**

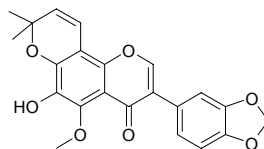
$C_{19}H_{15}NO_4$ (321.34). **Source:** DA HUA GE NA XIANG *Goniothalamus griffithii*. **Ref:** 2447, 5453.

**9007 Griffonianone A**

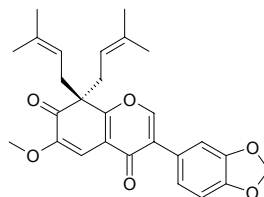
$C_{28}H_{32}O_8$ (496.56). Yellowish amorphous solid. **Source:** *Millettia griffoniana* (root cortex). **Ref:** 5134.

**9008 Griffonianone B**

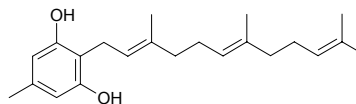
$C_{22}H_{18}O_7$ (394.38). Yellowish amorphous solid. **Source:** *Millettia griffoniana* (root cortex). **Ref:** 5134.

**9009 Griffonianone C**

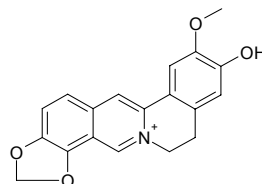
$C_{17}H_{28}O_6$ (448.52). White crystals (MeOH), mp 138~139°C. **Source:** *Millettia griffoniana* (root cortex). **Ref:** 5134.

**9010 Grifolin**

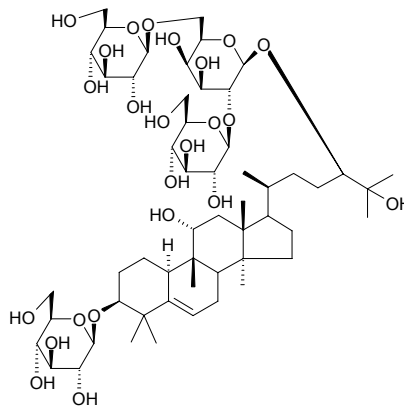
$C_{22}H_{30}O_2$ (326.5). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced). **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf; yield = 0.0031%) **Ref:** 4755.

**9011 Groenlandicin**

$C_{19}H_{16}NO_4^+$ (322.34). **Pharm:** Cytotoxic (topoisomerase I inhibitor *in vitro*)^[5369]. **Source:** *Coptis groenlandica*. **Ref:** 1521, 5369.

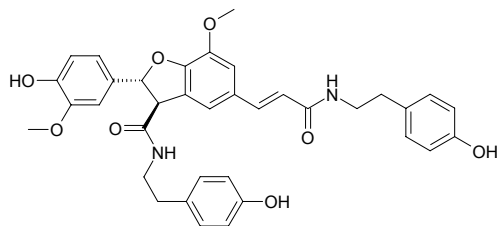
**9012 Grosomoside I**

Mogro-3-*O*- β -*D*-glucopyranoside-24-*O* {[β -*D*-glucopyranosyl (2 \rightarrow 1)]-[β -*D*-glucopyranosyl (6 \rightarrow 1)]- β -*D*-glucopyranoside} $C_{54}H_{92}O_{24}$ (1125.32). White amorphous powder. **Source:** LUO HAN GUO *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*]. **Ref:** 4805.

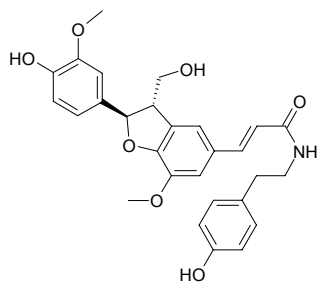


9013 Grossamide

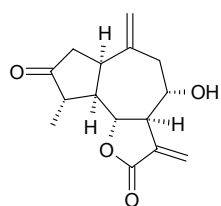
2-(4-Hydroxy-3-methoxyphenyl)-3-[N-2-(4-hydroxyphenyl)ethyl]carbamoyl-5-[N-2-(4-hydroxyphenyl)ethyl]carbamoylethenyl-7-methoxybenzodihydrofuran C₃₆H₃₆N₂O₈ (624.70). Yellowish oil. **Pharm:** Cytotoxic (*in vitro*, LNCaP, IC₅₀ = 33 μmol/L)^[4607]; feeding deterrent^[4607]. **Source:** DA MA JIN *Hibiscus cannabinus* (bark), LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.006%dw)^[4607]. **Ref:** 4607, 5233.

**9014 Grossamide K**

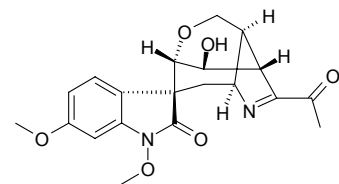
2-(4-Hydroxy-3-methoxyphenyl)-3-hydroxymethyl-5-[N-2-(4-hydroxyphenyl)ethyl]carbamoylethenyl-7-methoxybenzodihydrofuran C₂₈H₂₉NO₇ (491.55). Yellowish oil. **Source:** DA MA JIN *Hibiscus cannabinus* (bark). **Ref:** 5233.

**9015 Grosheimin**

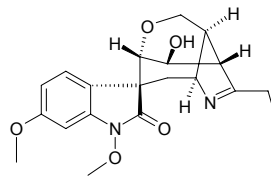
Grosheimin C₁₅H₁₈O₄ (262.31). mp 200–202°C, [α]_D²⁰ = +159.9° (c = 1.14, chloroform); mp 205°C (methanol), [α]_D²⁰ = +137.7° (c = 0.225, methanol). **Pharm:** Antineoplastic; cytotoxic (HeLa, ED₅₀ = 2.5 μg/mL); insect antifeedant. **Source:** BO LIN JU *Chartolepis intermedia*, CAI JI *Cynara scolymus*, NI JIN ZHAN JU *Venidium decurrens*. **Ref:** 661.

**9016 GS-1**

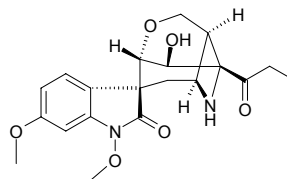
C₂₀H₂₂N₂O₆ (386.41). Amorphous. **Source:** CHANG LV GOU WEN *Gelsemium sempervirens* (stem and leaf). **Ref:** 4395.

**9017 GS-2**

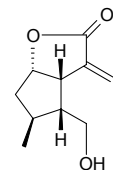
C₂₀H₂₄N₂O₅ (372.42). Amorphous. **Source:** CHANG LV GOU WEN *Gelsemium sempervirens* (stem and leaf). **Ref:** 4395.

**9018 GS-3**

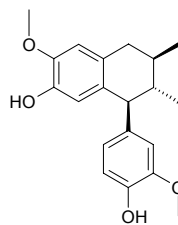
C₂₀H₂₄N₂O₆ (388.42). Amorphous. **Source:** CHANG LV GOU WEN *Gelsemium sempervirens* (stem and leaf). **Ref:** 4395.

**9019 GSIR-1**

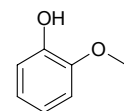
C₁₀H₁₅O₃ (182.22). Amorphous. **Source:** CHANG LV GOU WEN *Gelsemium sempervirens* (stem and leaf). **Ref:** 4395.

**9020 (+)-Guaiaicin**

C₂₀H₂₄O₄ (328.41). **Pharm:** Neuroprotective (glutamate-induced neurotoxicity in primary cultures of cortical cells, 0.1 μmol/L, protection rate = (16.7±1.1)%, MK-801: 1.0 μmol/L, protection rate = (83.6±2.0)%, p<0.001, CNQX: 1.0 μmol/L, protection rate = (70.5±1.5)%, p<0.001). **Source:** HONG NAN PI *Machilus thunbergii*. **Ref:** 4927.

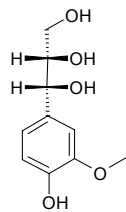
**9021 Guaiacol**

o-Methoxy phenol [90-05-1] C₇H₈O₂ (124.14). mp 32°C, bp 205°C. **Pharm:** Antitussive (dispels phlegm). **Source:** AN YE *Eucalyptus globulus*, CHAI HU *Bupleurum chinense*, DANG GUI *Angelica sinensis*, HAN QIN *Apium graveolens*, SANG YE *Morus alba*, WU HUA GUO YE *Ficus carica*, *Betula* sp. **Ref:** 2, 658.

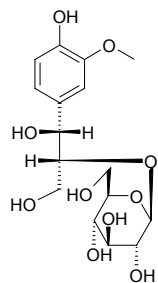


9022 erythro-Guaiacylglycerol

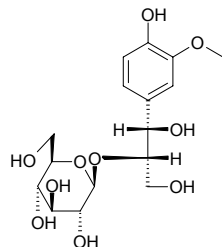
$C_{10}H_{14}O_5$ (214.22). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**9023 D-threo-Guaiacylglycerol 8-β-D-glucopyranoside**

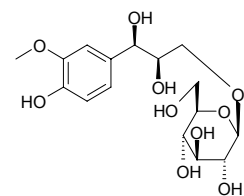
$C_{16}H_{24}O_{10}$ (376.36). White powder, $[\alpha]_D^{20} = -30.2^\circ$ ($c = 0.26$, MeOH). Source: XIAO YE SHI NAN *Photinia parvifolia* (stem). Ref: 4553.

**9024 L-threo-Guaiacylglycerol 8-β-D-glucopyranoside**

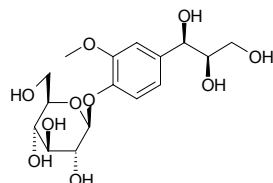
$C_{16}H_{24}O_{10}$ (376.36). White powder. Source: XIAO YE SHI NAN *Photinia parvifolia* (stem). Ref: 4553.

**9025 (1'R,2'R)-Guaiacyl glycerol 3'-O-β-D-glucopyranoside**

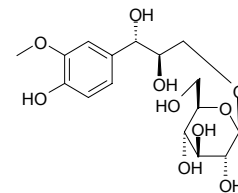
$C_{16}H_{24}O_{10}$ (376.36). Amorphous powder, $[\alpha]_D^{22} = -13^\circ$ ($c = 1.0$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**9026 (1'R,2'R)-Guaiacyl glycerol 4-O-β-D-glucopyranoside**

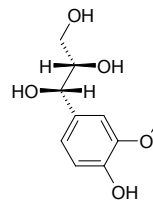
$C_{16}H_{24}O_{10}$ (376.36). Amorphous powder, $[\alpha]_D^{21} = -50^\circ$ ($c = 0.5$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**9027 (1'S,2'R)-Guaiacyl glycerol 3'-O-β-D-glucopyranoside**

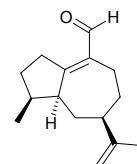
$C_{16}H_{24}O_{10}$ (376.36). Amorphous powder, $[\alpha]_D^{22} = -20^\circ$ ($c = 0.8$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**9028 threo-Guaiacylglycerol**

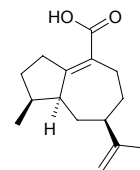
$C_{10}H_{14}O_5$ (214.22). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**9029 (-)-Guaia-1(10),11-dien-15-al**

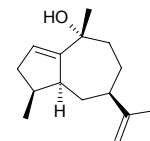
[133593-95-0] $C_{15}H_{22}O$ (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**9030 (-)-Guaia-1(10),11-dien-15-carboxylic acid**

$C_{15}H_{22}O_2$ (234.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

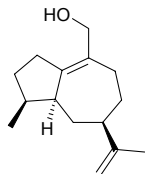
**9031 (-)-Guaia-1,11-dien-10α-ol**

$C_{15}H_{24}O$ (220.36). White solid, mp 117~118°C, $[\alpha]_D = -66.1^\circ$ ($c = 0.40$, $CHCl_3$); mp 118.5°C, $[\alpha]_D = -79.2^\circ$ ($c = 0.71$, $CHCl_3$). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC > 200mmol/L)^[2551]. Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2551.

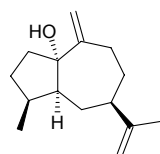


9032 (-)-Guaia-1(10),11-dien-15-ol

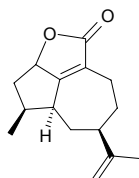
$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_D = -8.3^\circ$ ($c = 0.15$, EtOH); $[\alpha]_D = -11.6^\circ$ ($c = 1.0$, EtOH). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC > 200mmol/L)^[2551]. **Source:** CHEN XIANG *Aquilaria agallocha*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 13, 2551.

**9033 (+)-Guaia-10(15),11-dien-1 α -ol**

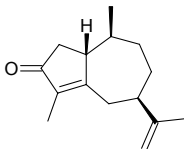
$C_{15}H_{24}O$ (220.36). White solid, mp 64–65°C, $[\alpha]_D = +67.6^\circ$ ($c = 0.23$, $CHCl_3$); 69.5°C, $[\alpha]_D = +67.1^\circ$ ($c = 0.73$, $CHCl_3$). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC > 200mmol/L). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 2551.

**9034 (-)-Guaia-1(10),11-dien-15,2-olide**

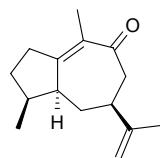
$C_{15}H_{20}O_2$ (232.33). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**9035 1 α ,7 α ,10 α H-Guaia-4,11-dien-3-one**

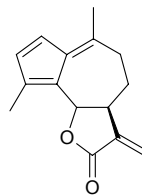
$C_{15}H_{22}O$ (218.34). Colorless oil, $[\alpha]_D^{24} = +63.1^\circ$ ($c = 0.23$, $CHCl_3$). **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 1.19\mu g/mL$, control Mithramycin, $ED_{50} = 0.08\mu g/mL$; HT29, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.07\mu g/mL$; A549, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.06\mu g/mL$). **Source:** PI ZHEN XING YAO HUA *Wikstroemia lanceolata* (stem and root). **Ref:** 4947.

**9036 (+)-Guaia-1(10),11-dien-9-one**

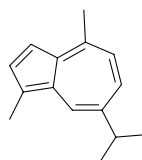
$C_{15}H_{22}O$ (218.34). Oil, $[\alpha]_D^{20} = +27.2^\circ$ ($c = 0.07$, $CHCl_3$). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13, 1521.

**9037 Guaia-1(10),2,4,11(13)-tetraen-12,6 ξ -olide**

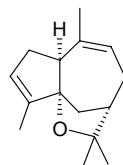
$C_{15}H_{16}O_2$ (228.29). Gum, $[\alpha]_D = -34.2^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**9038 Guaiazulene**

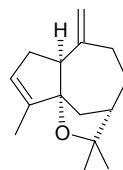
[489-84-9] $C_{15}H_{18}$ (198.31). Blue oil, mp 31.5°C, bp 165–170°C/10mmHg, 176°C/17mmHg. **Pharm:** Anti-inflammatory; 5 α -reductase inhibitor ($IC_{50} = (100.8\pm 9.3)\mu mol/L$; control Finasteride, $IC_{50} = (0.38\pm 0.06)\mu mol/L$; α -Linolenic acid, $IC_{50} = (160.3\pm 24.6)\mu mol/L$)^[5398]. **Source:** MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], YU CHUANG MU *Guajacum officinale*. **Ref:** 658, 5398.

**9039 (-)-(1S*,5S*,7S*)-Guai-3,9-dien-5,11-oxide**

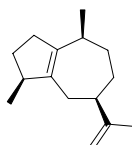
2,2,6,9-Tetramethyl-3,4,6a,7-tetrahydro-2H-3,9a-methanocyclopent[b]oxocin $C_{15}H_{22}O$ (218.34). Colorless oil. **Source:** XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). **Ref:** 3840.

**9040 (+)-(1S*,5S*,7S*)-Guai-3,10(14)-dien-5,11-oxide**

2,2,9-Trimethyl-6-methylene-3,4,5,6,6a,7-hexahydro-2H-3,9a-methanocyclopent[b]oxocin $C_{15}H_{22}O$ (218.34). Colorless oil. **Source:** XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). **Ref:** 3840.

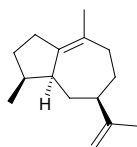
**9041 α -Guaiene**

[3691-12-1] $C_{15}H_{24}$ (204.36). bp 78–79°C/2.5mmHg. **Source:** CANG ZHU *Atractylodes lancea*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2, 660.

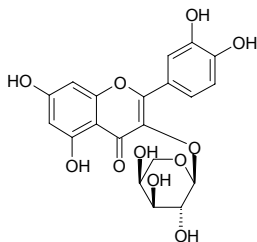


9042 δ -Guaiene

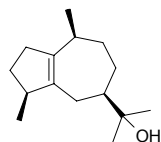
[3691-11-0] C₁₅H₂₄ (204.36). bp 118°C/8mmHg. Source: CANG ZHU *Atractylodes lancea*, DANG SHEN *Codonopsis pilosula*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HUA DONG LAN CI TOU *Echinops grijstii*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 660.

**9043 Guaijaverin**

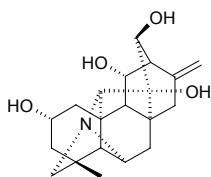
Quercetin-3-*O*-arabinoside; Foeniculin [22255-13-6] C₂₀H₁₈O₁₁ (434.36). mp 256°C. Source: DIAO GAN MA *Celastrus angulatus*, FAN SHI LIU GAN *Psidium guajava*, FAN SHI LIU YE *Psidium guajava*, HE SHOU WU *Polygonum multiflorum*, HUI XIANG JING YE *Foeniculum vulgare*, HU ZHANG *Polygonum cuspidatum*. Ref: 2, 6.

**9044 Guaiol**

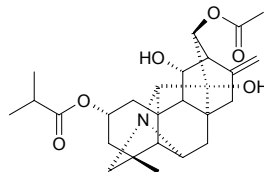
1(5)-Guaien-11-ol; (-)-Guaiol [489-86-1] C₁₅H₂₆O (222.37). mp 91°C, bp 288°C. Pharm: 5 α -Reductase inhibitor (IC₅₀ = (81.6 \pm 10.2) μ mol/L; control Finasteride, IC₅₀ = (0.38 \pm 0.06) μ mol/L; α -Linolenic acid, IC₅₀ = (160.3 \pm 24.6) μ mol/L)^[5398]. Source: AN YE *Eucalyptus globulus*, CANG ZHU *Atractylodes lancea*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], HOU PO *Magnolia officinalis*, NING MENG *Citrus limon*, QIANG HUO *Notopterygium incisum*. Ref: 2, 660, 5398.

**9045 Guan-fu aminealcohol**

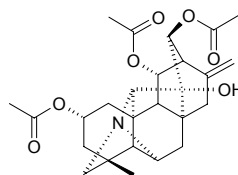
C₂₀H₂₇NO₄ (345.44). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

**9046 Guan-fu base F**

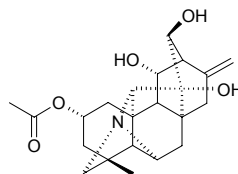
C₂₆H₃₅NO₆ (457.57). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

**9047 Guan-fu base G**

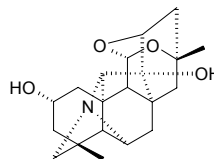
C₂₆H₃₃NO₇ (471.56). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

**9048 Guan-fu base I**

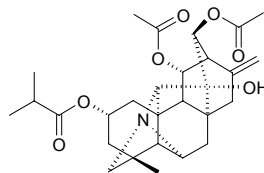
C₂₂H₂₉NO₅ (387.48). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

**9049 Guan-fu base K**

C₂₀H₂₇NO₄ (345.44). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

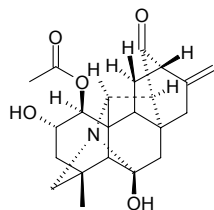
**9050 Guan-fu base P**

11,13-Diacetyl-14-hydroxy-2-isobutyryl hetisine C₂₈H₃₇NO₇ (499.61). Yellowish resin. Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoïd). Ref: 4593.

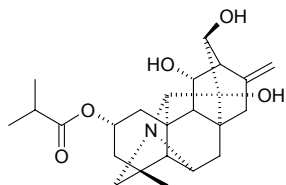


9051 Guanfu base Q

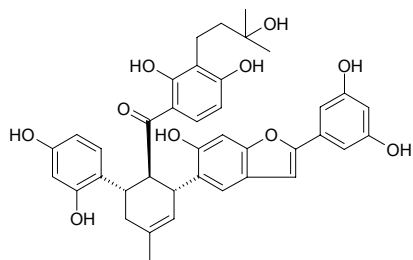
13-Dehydro-1 β -acetyl-2 α ,6 β -dihydroxyhetisine C₂₂H₂₇NO₅ (385.46). Colorless needles, mp 235–236°C. Source: HUANG HUA WU TOU *Aconitum coreanum* (stem and leaf). Ref: 4872.

**9052 Guan-fu base Z**

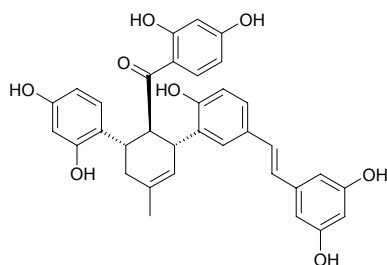
C₂₄H₃₃NO₅ (415.53). Source: HUANG HUA WU TOU *Aconitum coreanum* (tuberoid). Ref: 4593.

**9053 Guangsangon A**

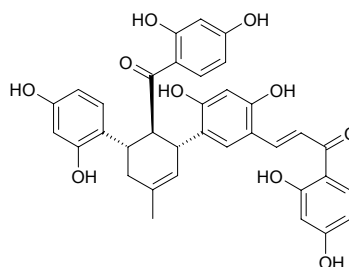
C₃₉H₃₈O₁₀ (666.73). Yellow amorphous powder, $[\alpha]_D^{29} = -408.5^\circ$ ($c = 0.13$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 102.7%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 84.9%, Vitamin E, InRt of MDA = 33.9%); anti-inflammation (polymorphonuclear leukocytes, lysosome enzyme release inhibitor, 10 μ mol/L, InRt = 19.0%, $p < 0.05$, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macrourea* (stem cortex). Ref: 5013.

**9054 Guangsangon B**

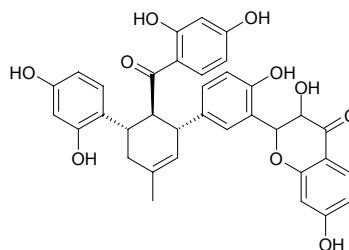
C₃₄H₃₀O₈ (566.61). Brown amorphous powder, $[\alpha]_D^{29} = -394.7^\circ$ ($c = 0.11$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 95.1%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 83.7%, Vitamin E, InRt of MDA = 33.9%); anti-inflammation (polymorphonuclear leukocytes, lysosome enzyme release inhibitor, 10 μ mol/L, InRt = 57.3%, $p < 0.001$, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macrourea* (stem cortex). Ref: 5013.

**9055 Guangsangon C**

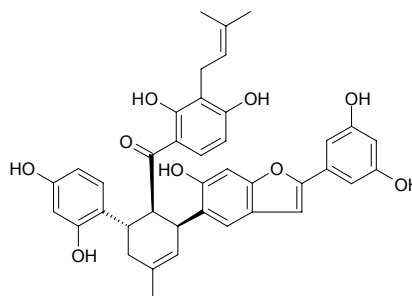
C₃₅H₃₀O₁₀ (610.62). Yellow amorphous powder, $[\alpha]_D^{29} = -412.8^\circ$ ($c = 0.13$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 96.2%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 81.7%, Vitamin E, InRt of MDA = 33.9%). Source: NAI SANG *Morus macrourea* (stem cortex). Ref: 5013.

**9056 Guangsangon D**

C₃₅H₃₀O₁₀ (610.62). Yellow amorphous powder, $[\alpha]_D^{29} = -108.3^\circ$ ($c = 0.13$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 90.1%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 77.6%, Vitamin E, InRt of MDA = 33.9%); anti-inflammation (polymorphonuclear leukocytes, lysosome enzyme release inhibitor, 10 μ mol/L, InRt = 24.3%, $p < 0.05$, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macrourea* (stem cortex). Ref: 5013.

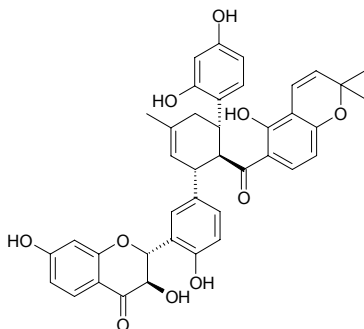
**9057 Guangsangon E**

C₃₉H₃₆O₉ (648.72). Brown amorphous powder, $[\alpha]_D^{29} = +139.7^\circ$ ($c = 0.11$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 94.8%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 88.1%, Vitamin E, InRt of MDA = 33.9%). Source: NAI SANG *Morus macrourea* (stem cortex). Ref: 5013.

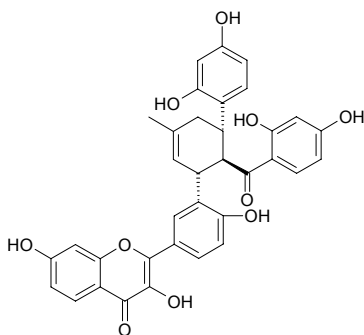


9058 Guangsangon F

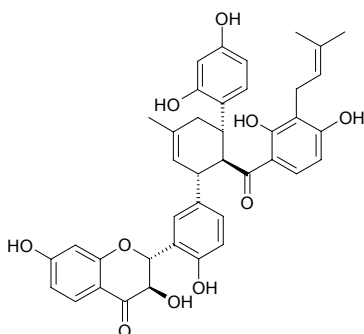
$C_{40}H_{36}O_{10}$ (676.73). Brown amorphous powder, $[\alpha]_D^{21} = -112.1^\circ$ ($c = 0.13$, MeOH). Source: NAI SANG *Morus macroua* (stem cortex). Ref: 3891.

**9059 Guangsangon G**

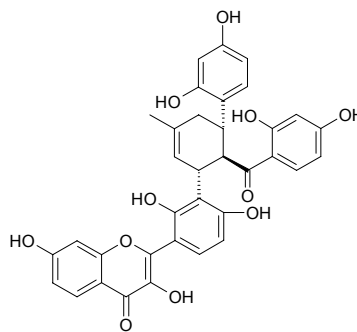
$C_{35}H_{28}O_{10}$ (608.61). Yellow amorphous powder, $[\alpha]_D^{21} = -469.1^\circ$ ($c = 0.11$, MeOH). Source: NAI SANG *Morus macroua* (stem cortex). Ref: 3891.

**9060 Guangsangon H**

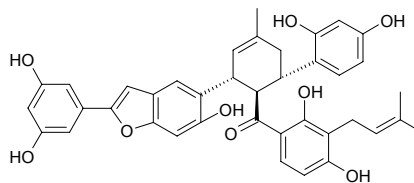
$C_{40}H_{38}O_{10}$ (678.74). Yellow amorphous powder, $[\alpha]_D^{21} = -127.9^\circ$ ($c = 0.15$, MeOH). Pharm: Antioxidant (to determine inhibitory rates of malondialdehyde (MDA) (H. Lu, et al., *Chem Biol Interact*, 1991, 78, 77-84.), $10\mu\text{mol/L}$, InRt = 93.1%, control Vitamin E, InRt = 33.4%); anti-inflammatory (to determine release of lysosome enzyme from polymorphonuclear (PMN) leukocytes induced by PAF of rats, $10\mu\text{mol/L}$, InRt = 49.4%, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macroua* (stem cortex). Ref: 3891.

**9061 Guangsangon I**

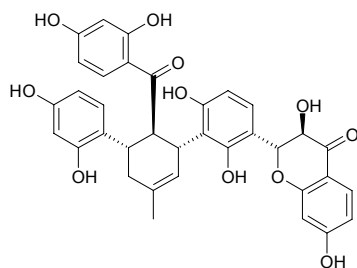
$C_{35}H_{28}O_{11}$ (624.61). Brown amorphous powder, $[\alpha]_D^{21} = -470.5^\circ$ ($c = 0.17$, MeOH). Pharm: Antioxidant (to determine inhibitory rates of malondialdehyde (MDA) (H. Lu, et al., *Chem Biol Interact*, 1991, 78, 77-84.), $10\mu\text{mol/L}$, InRt = 93.9%, control Vitamin E, InRt = 33.4%); anti-inflammatory (to determine release of lysosome enzyme from polymorphonuclear (PMN) leukocytes induced by PAF of rats, $10\mu\text{mol/L}$, InRt = 43.8%, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macroua* (stem cortex). Ref: 3891.

**9062 Guangsangon J**

$C_{39}H_{36}O_9$ (648.72). Brown amorphous powder, $[\alpha]_D^{21} = -419.7^\circ$ ($c = 0.16$, MeOH). Pharm: Antioxidant (to determine inhibitory rates of malondialdehyde (MDA), $10\mu\text{mol/L}$, InRt = 91.1%, control Vitamin E, InRt = 33.4%); anti-inflammatory (to determine release of lysosome enzyme from polymorphonuclear (PMN) leukocytes induced by PAF of rats, $10\mu\text{mol/L}$, InRt = 41.3%, control Ginkgolide B, InRt = 58.9%). Source: NAI SANG *Morus macroua* (stem cortex). Ref: 3891.

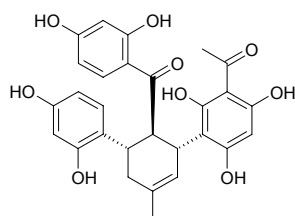
**9063 Guangsangon K**

$C_{35}H_{30}O_{11}$ (626.62). Brown amorphous powder, $[\alpha]_D^{25} = -178.5^\circ$ ($c = 0.14$, MeOH). Pharm: Antioxidant (microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, $10\mu\text{mol/L}$, InRt = 91.8%, control Vitamin E, InRt = 18.2%). Source: NAI SANG *Morus macroua*. Ref: 2570.

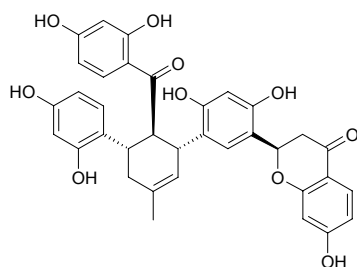


9064 Guangsangon L

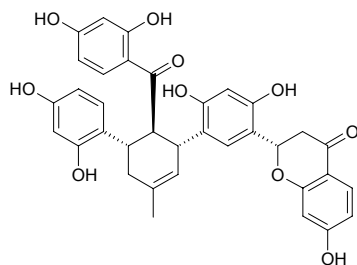
$C_{28}H_{26}O_9$ (506.51). Yellow amorphous powder, $[\alpha]_D^{25} = -389.3^\circ$ ($c = 0.14$, MeOH). **Pharm:** Antioxidant (microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, $10\mu\text{mol/L}$, InRt = 97.6%, control Vitamin E, InRt = 18.2%). **Source:** NAI SANG *Morus macrourea*. **Ref:** 2570.

**9065 Guangsangon M**

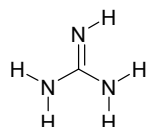
$C_{35}H_{30}O_{10}$ (610.62). Brown amorphous powder, $[\alpha]_D^{25} = -276.5^\circ$ ($c = 0.12$, MeOH). **Pharm:** Antioxidant (microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, $10\mu\text{mol/L}$, InRt = 98.3%, control Vitamin E, InRt = 18.2%). **Source:** NAI SANG *Morus macrourea*. **Ref:** 2570.

**9066 Guangsangon N**

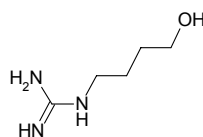
$C_{35}H_{30}O_{10}$ (610.62). Brown amorphous powder, $[\alpha]_D^{25} = -335.3^\circ$ ($c = 0.13$, MeOH). **Pharm:** Antioxidant (microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, $10\mu\text{mol/L}$, InRt = 100%, control Vitamin E, InRt = 18.2%). **Source:** NAI SANG *Morus macrourea*. **Ref:** 2570.

**9067 Guanidine**

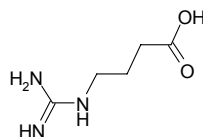
[113-00-8] CH_5N_3 (59.07). **Pharm:** Supertoxic agent (orl). **Source:** GUI GAI *Coprinus atramentarius*, QIU YIN *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, SHUI NIU JIAO *Bubalus bubalis*. **Ref:** 6.

**9068 4-Guanidino-1-butanol**

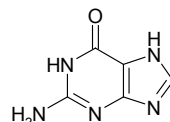
$C_5H_{13}N_3O$ (131.18). **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. **Ref:** 6.

**9069 γ-Guanidinobutyric acid**

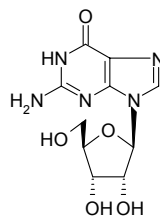
4-Guanidino-butyric acid [463-00-3] $C_5H_{11}N_3O_2$ (145.16). mp 276–278°C (dec). **Source:** WANG GUA ZI *Trichosanthes cucumeroides*, WEI NAO *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. **Ref:** 6.

**9070 Guanine (1,7-Dihydro-form)**

[73-40-5] $C_5H_5N_5O$ (151.13). mp > 300°C. **Pharm:** Nitrogen-containing base occurring in DNA and RNA. **Source:** DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.018%)^[5512], QIU YIN *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.011%)^[5512]. **Ref:** 6, 5512.

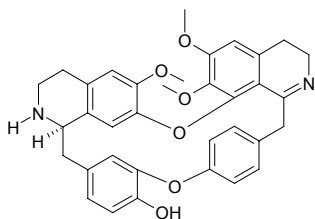
**9071 Guanosine**

9-β-Ribofuranosylguanine [118-00-3] $C_{10}H_{13}N_5O_5$ (283.25). mp 230–235°C (dec). **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.0038%–0.0220%, mean content = 0.0107%)^[5508], DANG GUI *Angelica sinensis* (root: content = 0.019%)^[5514], DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.135%)^[5512], GUAN HUA ROU CONG RONG *Cistanche tubulosa* (fleshy stem: content = 0.007%)^[5514], HUANG QI *Astragalus membranaceus* (root: content = 0.032%)^[5514], MAI DONG *Ophiopogon japonicus* (tuberoid: content = 0.003%)^[5514], MAI JIAO *Claviceps purpurea*, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.274%)^[5512], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (root: content = 0.035%)^[5514]. **Ref:** 2, 5508, 5512, 5514.

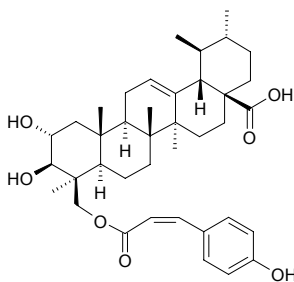


9072 (+)-Guatteboline

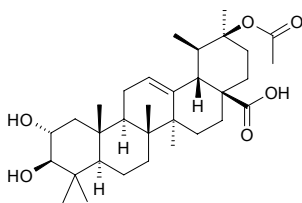
$C_{35}H_{34}N_2O_6$ (578.67). Amorphous, $[\alpha]_D^{20} = +138^\circ$ ($c = 0.8$, $CHCl_3$). **Pharm:** Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, $IC_{50} = 57.9\mu g/mL$, $IC_{90} = 96.5\mu g/mL$)^[3976]; antimalarial (*Plasmodium falciparum* D6, $LC_{50} = 207.5ng/mL$, $SI = 29$; *Plasmodium falciparum* W2, $LC_{50} = 72.5ng/mL$, $SI = 83$); cytotoxic (KB, $LC_{50} = 6000ng/mL$)^[3976]. **Source:** *Guatteria boliviana* (stem cortex). **Ref:** 3976.

**9073 Guavacoumaric acid**

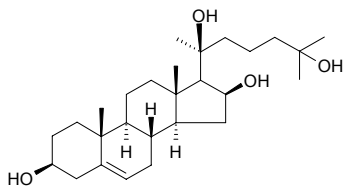
2 α ,3 β -Dihydroxy-24-*p*-z-coumaroyloxyurs-12-en-28-oic acid $C_{39}H_{54}O_7$ (634.86). Colorless needles ($CHCl_3$:MeOH = 1:1), mp 188~190°C. **Source:** FAN SHI LIU YE *Psidium guajava*. **Ref:** 1922.

**9074 Guavanoic acid**

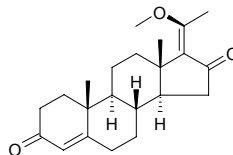
20 β -Acetoxy-2 α ,3 β -dihydroxyurs-12-en-28-oic acid $C_{32}H_{50}O_6$ (530.75). Colorless needles ($CHCl_3$:MeOH = 1:1), mp 221~222°C. **Source:** FAN SHI LIU YE *Psidium guajava*. **Ref:** 1922.

**9075 Guggulsterol Y**

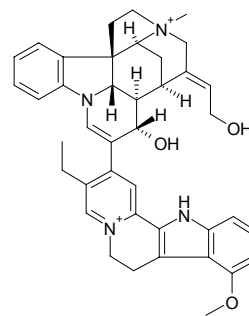
$C_{27}H_{46}O_4$ (434.67). Needles, mp 236~238°C (MeCN), $[\alpha]_D = -28.8^\circ$ ($c = 0.5$, MeOH) **Source:** A MAN SU DAN MO YAO *Commiphora wightii*. **Ref:** 2062.

**9076 Guggulsterone M**

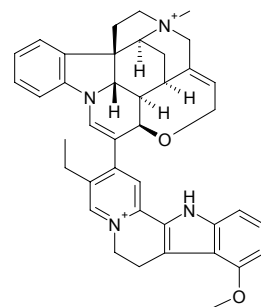
$C_{22}H_{30}O_3$ (342.48). Needles (mp 206~208°C (MeCN), $[\alpha]_D = +93^\circ$ ($c = 0.65$, MeOH). **Source:** A MAN SU DAN MO YAO *Commiphora wightii*. **Ref:** 2062.

**9077 Guiachry sine**

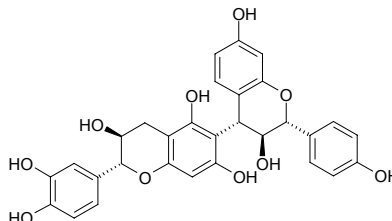
$C_{40}H_{44}N_4O_3$ (628.82). Orange-colored amorphous powder. **Pharm:** Supertoxic agent ($LD_{100} = 4\sim 6mg/kg$, death occurs fairly rapidly in 5~10min)^[3943]; neuromuscular toxicity (neuromuscular transmission inhibitor, $IC_{50} = 12.5\mu mol/L$; Venezuelan calabash curare, $IC_{50} = 6.5\mu mol/L$)^[5202]. **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 3943, 5202.

**9078 Guiaflavine**

$C_{40}H_{42}N_4O_2$ (610.81). **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor, $IC_{50} = 25.5\mu mol/L$; Venezuelan calabash curare, $IC_{50} = 6.5\mu mol/L$)^[5202]. **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 3943, 5202.

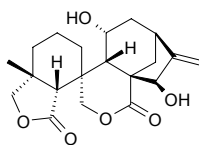
**9079 Guibourtinidol-(4 α →6)-catechin**

[27277-74-7] $C_{30}H_{26}O_{10}$ (546.54). **Pharm:** Tanning agent. **Source:** LE SHI JIN HE HUAN *Acacia luederitzii*. **Ref:** 658.

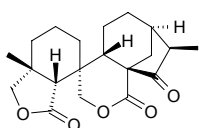


9080 Guidongnin

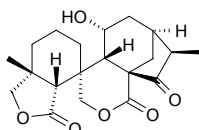
Guidongnin A $C_{20}H_{26}O_6$ (362.43). mp 235–237°C, $[\alpha]_D^{22} = -160^\circ$ ($c = 1.0$, C_5H_5N). **Pharm:** Cytotoxic (*in vitro*, K562, $IC_{50} = 0.3\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[4732]. **Source:** DONG LING CAO *Rabdosia rubescens*, LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.0026%dw)^[4732]. **Ref:** 4067, 4732.

**9081 Guidongnin B**

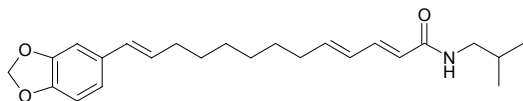
Ludongnin B $C_{20}H_{26}O_5$ (346.43). mp 296–299°C. **Pharm:** Cytotoxic inactive (*in vitro*, K562, $IC_{50} > 50\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[4732]. **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00021%dw). **Ref:** 4067, 4732.

**9082 Guidongnin C**

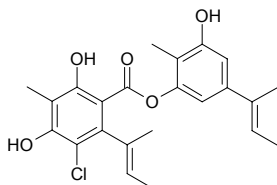
$C_{20}H_{26}O_6$ (362.43). **Pharm:** Cytotoxic inactive (*in vitro*, K562, $IC_{50} > 50\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[4732]. **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00016%dw). **Ref:** 4732.

**9083 Guineensine**

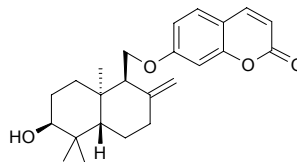
$C_{24}H_{33}NO_3$ (383.54). Colorless crystals; crystalline solid. **Pharm:** Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (78.6±13.0)mm, control, length = (118.6±16.2)mm, InRt = 33.7%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (54.3±9.8)mm, control, length = (89.5±9.8)mm, InRt = 39.3%)^[4935]; ACAT inhibitor (dose-dependent manner, $IC_{50} = 3.12\mu\text{mol/L}$)^[5005]. **Source:** BI BA *Piper longum* (fruit), *Piper chaba* (fruit). **Ref:** 4935, 5005.

**9084 Guisinol**

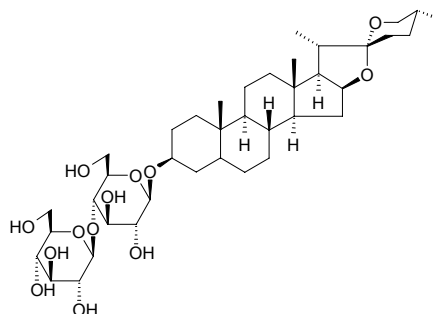
$C_{23}H_{35}ClO_5$ (416.91). Yellowish oil. **Source:** *Emericella unguis*. **Ref:** 1890.

**9085 Gummosin**

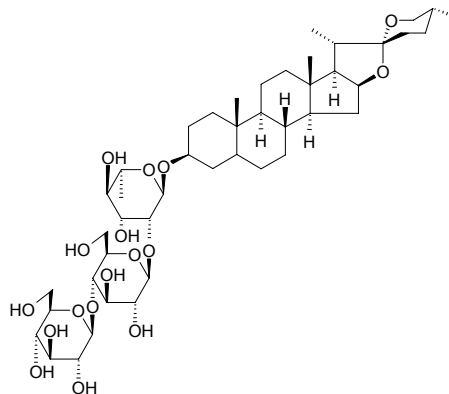
$C_{24}H_{30}O_4$ (382.50). **Source:** A WEI *Ferula assafoetida* (root). **Ref:** 5243.

**9086 Gurillin G**

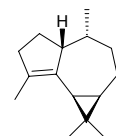
$C_{39}H_{64}O_{13}$ (740.94). **Source:** WAN QU TIAN MEN DONG *Asparagus curillus*. **Ref:** 697.

**9087 Gurillin H**

$C_{45}H_{74}O_{17}$ (887.08). **Source:** WAN QU TIAN MEN DONG *Asparagus curillus*. **Ref:** 697.

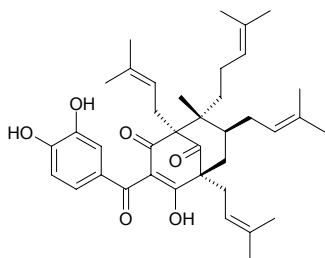
**9088 α-Guriunene**

$C_{15}H_{24}$ (204.36). bp 114–116°C/10mmHg. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], NAN HE SHI *Daucus carota*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHAN NAI *Kaempferia galanga*, SHUI CAI *Menyanthes trifoliata*. **Ref:** 2, 660.

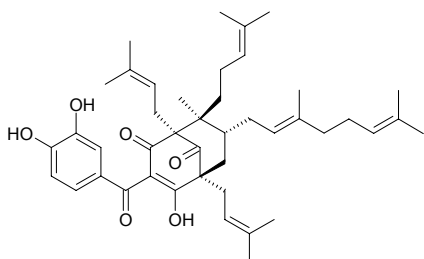


9089 Guttiferone A

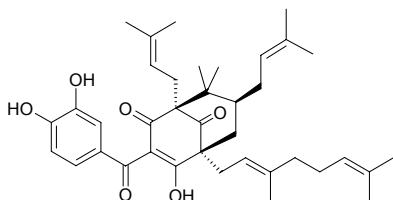
$C_{38}H_{50}O_6$ (602.82). Yellow oil, $[\alpha]_D^{20} = +32^\circ$ ($c = 0.04$, $CHCl_3$). **Pharm:** Cytotoxic (hmn ovarian A2780 cell line, $IC_{50} = 6.8\mu g/mL$, control Actinomycin D, $IC_{50} = 0.003\mu g/mL$). **Source:** *Garcinia macrophylla* (twig). **Ref:** 5442.

**9090 Guttiferone G**

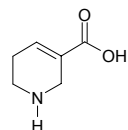
$C_{43}H_{58}O_6$ (670.54). Yellow amorphous powder, $[\alpha]_D^{20} = -25^\circ$ ($c = 0.04$, $CHCl_3$). **Pharm:** Cytotoxic (hmn ovarian A2780 cell line, $IC_{50} = 8.0\mu g/mL$, control Actinomycin D, $IC_{50} = 0.003\mu g/mL$). **Source:** *Garcinia macrophylla* (twig). **Ref:** 5442.

**9091 Guttiferone I**

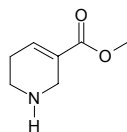
$C_{38}H_{50}O_6$ (602.82). Bright yellow solid, mp 60–62°C, $[\alpha]_D = -68^\circ$ ($c = 1.2$, $CHCl_3$). **Source:** GE LI FEI SI TENG HUANG *Garcinia griffithii* (stem cortex). **Ref:** 5311.

**9092 Guvacine**

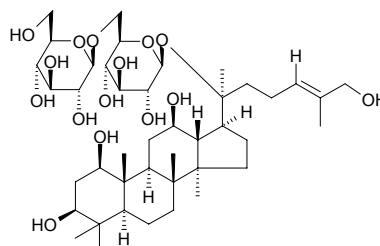
[498-96-4] $C_6H_9NO_2$ (127.14). mp 285°C (dec). **Pharm:** Inhibits absorption of GABA and β -alanine (cat, myeloid section and cerebral section); Antidyskinetic (inhibits spontaneous movement, mus, 50–100mg/kg, ip). **Source:** BING LANG *Areca catechu* (dried ripe seed: content scope 0.19%–0.72%, middle value = 0.46%^[5508]). **Ref:** 6, 658, 5508.

**9093 Guvacoline**

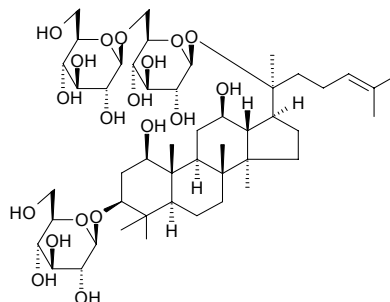
[495-19-2] $C_7H_{11}NO_2$ (141.17). mp 27°C, bp 114°C/14mmHg. **Source:** BING LANG *Areca catechu* (dried ripe seed: content scope 0.03%–0.06%^[5508]). **Ref:** 2, 5508.

**9094 Gycomoside I**

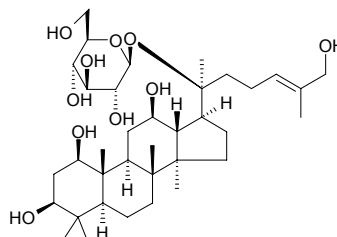
1 β ,3 β ,12 β ,20(S),26-Pentahydroxy-dammer-24(25)-en-20(S)-O- β -D-glucopyranosyl-(1→6)- β -D-glucopyranoside [150626-50-9] $C_{42}H_{72}O_{15}$ (817.03). Colorless acicular Crystals, mp 196–197°C, $[\alpha]_D^{22} = +18.56^\circ$ ($c = 1.67$, MeOH). **Source:** BIAN GUO JIAO GU LAN *Gynostemma compressum*. **Ref:** 266.

**9095 Gycomoside II**

1 β ,3 β ,12 β ,20(S)-Tetrahydroxy-dammer-24(25)-en-3-O- β -D-glucopyranosyl-20(S)-O- β -D-glucopyranosyl-(1→6)- β -D-glucopyranoside [150626-51-0] $C_{48}H_{82}O_{19}$ (963.18). White powder, mp 195–197°C, $[\alpha]_D^{22} = +21.05^\circ$ ($c = 0.57$, MeOH). **Source:** BIAN GUO JIAO GU LAN *Gynostemma compressum*. **Ref:** 266, 1521.

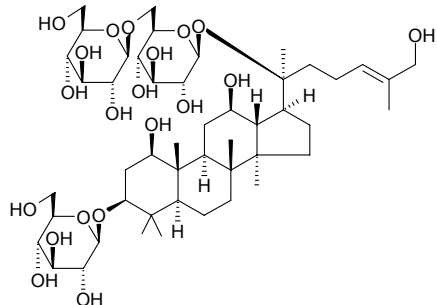
**9096 Gycomoside III**

1 β ,3 β ,12 β ,20(S),26-Pentahydroxy-dammer-24(25)-en-20(S)-O- β -D-glucopyranoside $C_{36}H_{62}O_{10}$ (654.89). Yellowish powder, mp 178–180°C, $[\alpha]_D^{22} = +23.73^\circ$ ($c = 0.59$, MeOH). **Source:** BIAN GUO JIAO GU LAN *Gynostemma compressum*. **Ref:** 266.

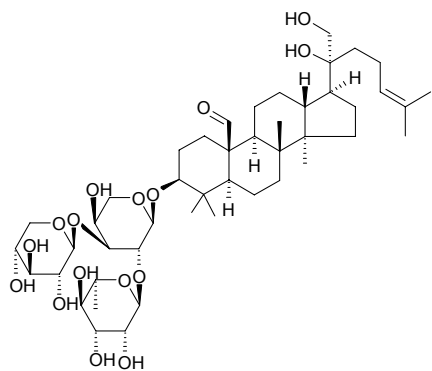


9097 Gycomoside IV

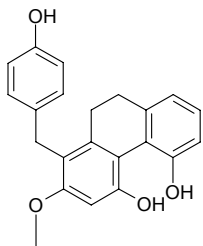
1 β ,3 β ,12 β ,20(S),26-Pentahydroxy-dammer-24(25)-en-3-O- β -D-glucopyranosyl-1-20(S)-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₄₈H₈₂O₂₀ (979.18). White powder, mp 207~209°C, [α]_D²² = +12.96° (c = 1.08, MeOH). Source: BIAN GUO JIAO GU LAN *Gynostemma compressum*. Ref: 266.

**9098 Gylongiposide I**

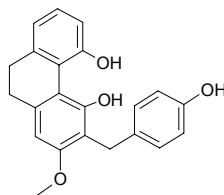
C₄₆H₇₆O₁₆ (885.11). White crystalline powder, mp 219.5~220.0°C, [α]_D²⁰ = -1.7° (c = 1, methanol). Source: CHANG GENG JIAO GU LAN *Gynostemma longipes*. Ref: 390.

**9099 Gymconopin A**

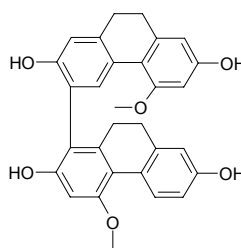
C₂₂H₂₀O₄ (348.40). White powder. Pharm: Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (21.3 \pm 2.9) μ mol/L, p <0.01; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, p <0.01). Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 5022.

**9100 Gymconopin B**

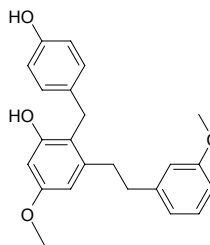
C₂₂H₂₀O₄ (348.40). White powder. Pharm: Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (96.9 \pm 1.8) μ mol/L, p <0.01; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, p <0.01). Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 5022.

**9101 Gymconopin C**

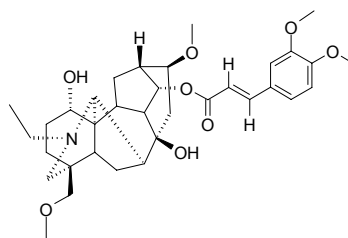
C₃₀H₂₆O₆ (482.54). White powder. Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 5022.

**9102 Gymconopin D**

C₂₃H₂₄O₄ (364.45). White powder. Pharm: Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (86.9 \pm 0.9) μ mol/L, p <0.01; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, p <0.01)^[5022]. Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 5022.

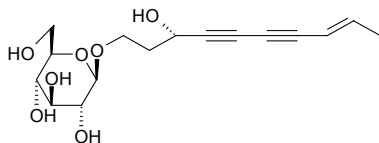
**9103 Gymnaconitine**

[103956-41-8] C₃₄H₄₇NO₈ (597.76). White acicular Crystals, mp 110~111°C, [α]_D¹⁷ = +18.2°. Source: LU RUI WU TOU *Aconitum gymmandrum*. Ref: 52.

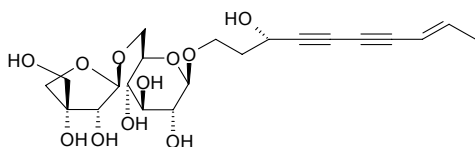


9104 Gymnasterkoreaside A

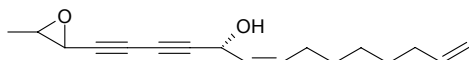
(3*R*)-8-Decene-4,6-diyne-1,3-diol 1-*O*- β -*D*-glucopyraside C₁₆H₂₂O₇ (326.35). Bright yellow oil, $[\alpha]_D^{20} = -28^\circ$ ($c = 1$, MeOH). Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (root). Ref: 4196.

**9105 Gymnasterkoreaside B**

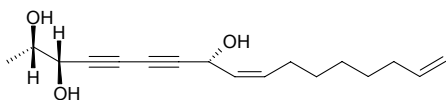
(3*R*)-8-Decene-4,6-diyne-1,3-diol 1-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyraside C₂₁H₃₀O₁₁ (458.47). Bright yellow oil, $[\alpha]_D^{20} = -78^\circ$ ($c = 1$, MeOH). Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (root). Ref: 4196.

**9106 Gymnasterkoreayne B**

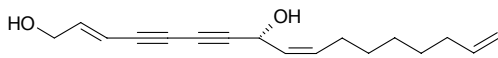
C₁₇H₂₂O₂ (258.36). $[\alpha]_D^{20} = +163.0^\circ$ ($c = 0.3$, CHCl₃). Pharm: NFAT transcription factor inhibitor (IC₅₀ = (1.44 \pm 0.59) μ mol/L, control Cyclosporin A, IC₅₀ = (0.31 \pm 0.01) μ mol/L). Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf). Ref: 4511.

**9107 Gymnasterkoreayne E**

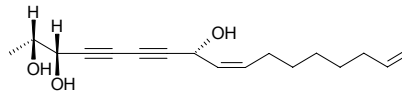
C₁₇H₂₄O₃ (276.38). $[\alpha]_D^{20} = +87.9^\circ$ ($c = 0.3$, CHCl₃). Pharm: NFAT transcription factor inhibitor (IC₅₀ = (7.24 \pm 0.42) μ mol/L, positive control Cyclosporin A, IC₅₀ = (0.31 \pm 0.01) μ mol/L)^[4511]. Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf). Ref: 4511.

**9108 Gymnasterkoreayne F**

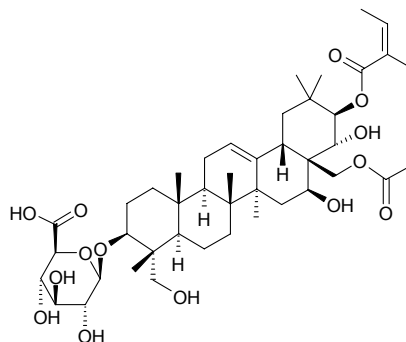
C₁₇H₂₂O₂ (258.36). $[\alpha]_D^{20} = +134.0^\circ$ ($c = 0.3$, CHCl₃). Pharm: NFAT transcription factor inhibitor (IC₅₀ = (10.6 \pm 0.5) μ mol/L, control Cyclosporin A, IC₅₀ = (0.31 \pm 0.01) μ mol/L)^[4511]. Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf). Ref: 4511.

**9109 Gymnasterkoreayne G**

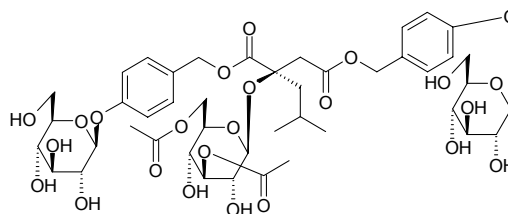
C₁₇H₂₄O₃ (276.38). Orange oil, $[\alpha]_D^{20} = +40.0^\circ$ ($c = 0.3$, CHCl₃). Pharm: NFAT transcription factor inhibitor (IC₅₀ = (43.9 \pm 2.2) μ mol/L, positive control Cyclosporin A, IC₅₀ = (0.31 \pm 0.01) μ mol/L). Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf). Ref: 4511.

**9110 Gymnemic acid I**

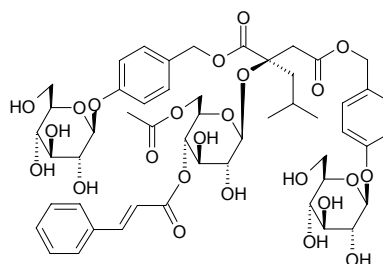
[122168-40-5] C₄₃H₆₆O₁₄ (807.00). Pharm: Flavorant. Source: CHI GENG TENG *Gymnema sylvestre*. Ref: 658.

**9111 Gymnoside VIII**

C₄₄H₆₀O₂₄ (972.95). White powder, $[\alpha]_D^{24} = -37.3^\circ$ ($c = 0.39$, MeOH). Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber: yield = 0.0003%). Ref: 2089.

**9112 Gymnoside IX**

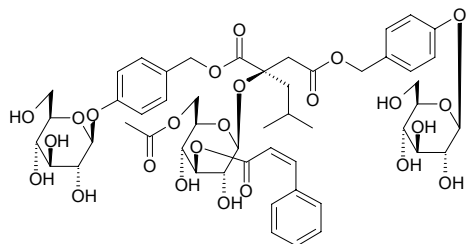
C₅₁H₆₄O₂₄ (1061.06). White powder, $[\alpha]_D^{24} = -26.5^\circ$ ($c = 1.61$, MeOH). Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber: yield = 0.013%). Ref: 2089.



9113 Gymnoside X

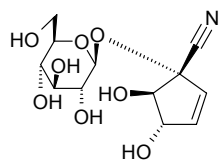
$C_{51}H_{64}O_{24}$ (1061.06). White powder, $[\alpha]_D^{24} = -11.2^\circ$ ($c = 1.00$, MeOH).

Source: SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber: yield = 0.0005%). Ref: 2089.

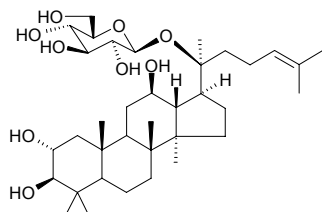
**9114 Gynocardin**

[14332-17-3] $C_{12}H_{17}NO_8$ (303.27). Pharm: Toxin. Source: MA DAN GUO

Gynocardia odorata. Ref: 658.

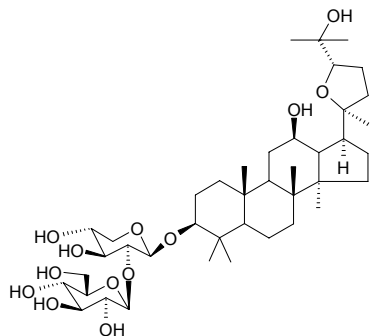
**9115 Gynosaponin TN₁**

$C_{36}H_{62}O_9$ (638.89). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.036%dw). Ref: 4757.

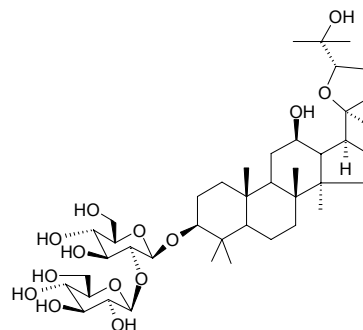
**9116 Gynoside A**

(20S,24S)-20,-24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside $C_{41}H_{70}O_{13}$ (771.01). Colorless plates, mp 203~205°C, $[\alpha]_D^{20} = -0.47^\circ$ ($c = 0.9$, MeOH). Source: JIAO GU LAN

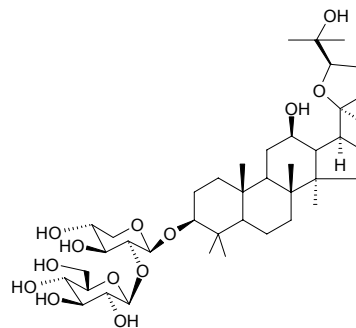
Gynostemma pentaphyllum (leaf: yield = 0.002%dw). Ref: 4757.

**9117 Gynoside B**

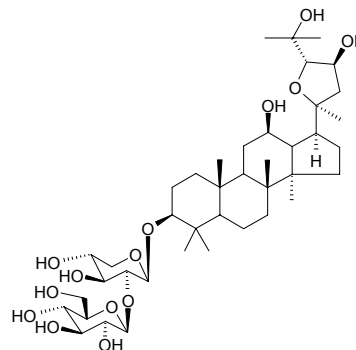
(20S,24S)-20,24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside $C_{42}H_{72}O_{14}$ (801.03). Amorphous powder, mp 194~196°C, $[\alpha]_D^{20} = +0.10^\circ$ ($c = 0.05$, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.00025%dw). Ref: 4757.

**9118 Gynoside C**

(20S,24R)-20,24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside $C_{41}H_{70}O_{13}$ (771.01). Amorphous powder, mp 194~196°C, $[\alpha]_D^{20} = -8.0^\circ$ ($c = 0.1$, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.00012%dw). Ref: 4757.

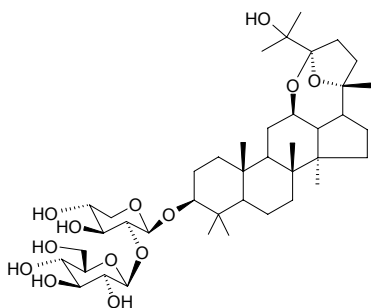
**9119 Gynoside D**

(20S,24S)-20,24-Epoxy-12,23 β ,25-trihydroxydammaran-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside $C_{41}H_{70}O_{14}$ (787.01). Amorphous powder, mp 195~197°C, $[\alpha]_D^{20} = +0.61^\circ$ ($c = 0.1$, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.00077%dw). Ref: 4757.

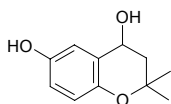


9120 Gynoside E

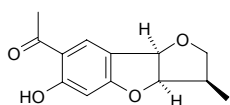
(12*R*,20*S*,24*S*)-20,24;20,12-Diepoxy-25-hydroxydammaran-3 β -yl
O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside C₄₁H₆₈O₁₃ (768.99).
 Amorphous powder, mp 207~209°C, $[\alpha]_D^{20} = +2.0^\circ$ ($c = 0.15$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield =
 0.0001%dw). Ref: 4757.

**9121 Gynunol**

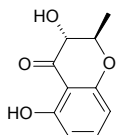
C₁₁H₁₄O₃ (194.23). Colorless oil. Source: TUO YUAN SAN QI CAO *Gynura elliptica*. Ref: 763.

**9122 (+)-Gynunone**

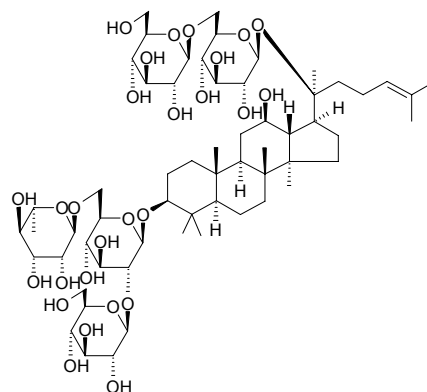
C₁₃H₁₄O₄ (234.25). Colorless oil, $[\alpha]_D^{27} = 117.8^\circ$ ($c = 0.15$, CHCl₃). Source:
 TUO YUAN SAN QI CAO *Gynura elliptica*. Ref: 763.

**9123 (-)-Gynuraone**

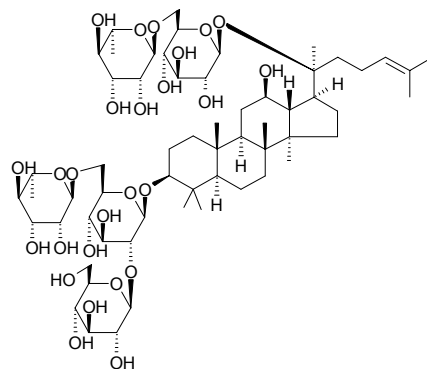
C₁₀H₁₀O₄ (194.19). Colorless oil, $[\alpha]_D^{25} = -64.5^\circ$ ($c = 0.93$, CHCl₃). Pharm:
 Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L
 AA-induced, AggRt = 7.2%, control 50 μ mol/L Aspirin, AggRt = 100%;
 10 μ g/mL collagen-induced, AggRt = 7.5%, 100 μ mol/L Aspirin, AggRt = 4.9%;
 0.1U/mL thrombin-induced, AggRt = 4.0%, 100 μ mol/L Aspirin, AggRt =
 1.7%; 2ng/mL PAF-induced, AggRt = 2.9%, 100 μ mol/L Aspirin, AggRt =
 2.1%). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*]
 (rhizome). Ref: 5427.

**9124 Gypenoside I**

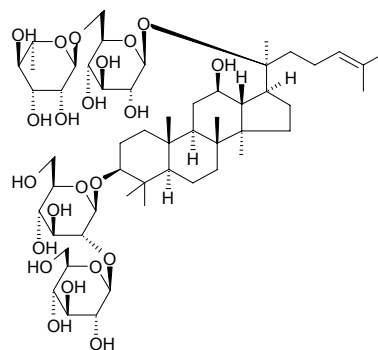
C₆₀H₁₀₂O₂₇ (1255.47). Source: JIAO GU LAN *Gynostemma pentaphyllum*.
Ref: 2.

**9125 Gypenoside II**

C₆₀H₁₀₂O₂₆ (1239.47). Source: JIAO GU LAN *Gynostemma pentaphyllum*.
Ref: 2.

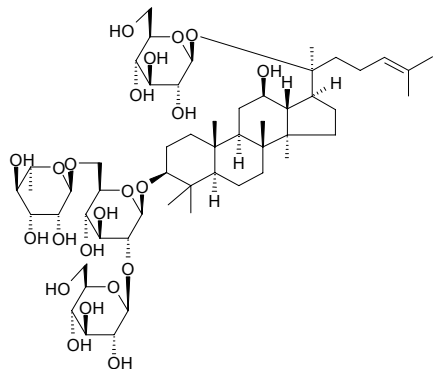
**9126 Gypenoside V**

Gynosaponin E [80321-60-4] C₅₄H₉₂O₂₂ (1093.32). Source: JIAO GU LAN
Gynostemma pentaphyllum. Ref: 2, 1521.

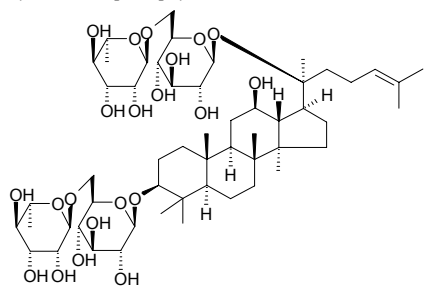


9127 Gypenoside VI

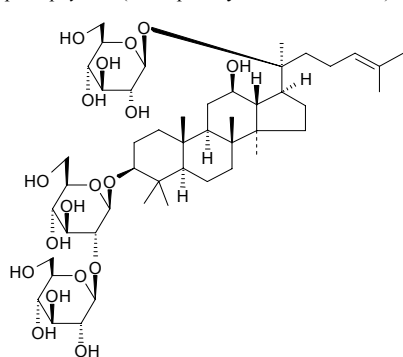
$C_{54}H_{92}O_{22}$ (1093.32). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9128 Gypenoside VII**

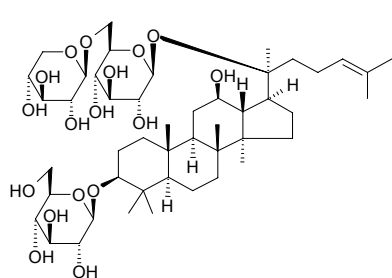
Gynosaponin G [80321-62-6] $C_{54}H_{92}O_{21}$ (1077.32). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 1521.

**9129 Gypenoside VIII**

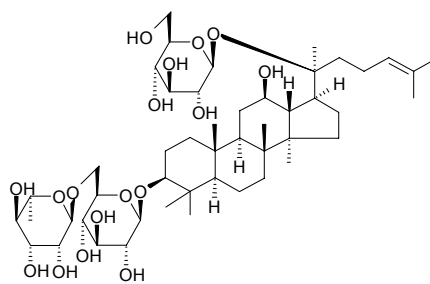
[52705-93-8] $C_{48}H_{82}O_{18}$ (947.18). Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0041%dw)^[4751]. Ref: 2, 4751.

**9130 Gypenoside IX**

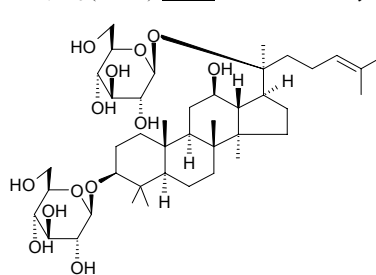
[80321-63-7] $C_{47}H_{80}O_{17}$ (917.15). Source: JIAO GU LAN *Gynostemma pentaphyllum*, SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.11%dw)^[4702]. Ref: 2, 1521, 4702.

**9131 Gypenoside XI**

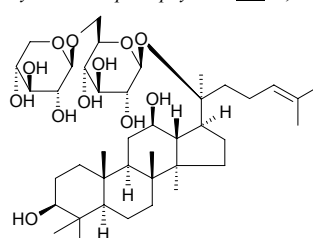
Gynosaponin K [80321-64-8] $C_{48}H_{82}O_{17}$ (931.18). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 1521.

**9132 Gypenoside XII**

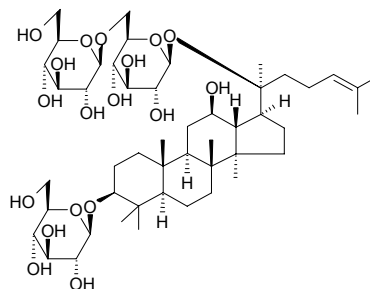
$C_{42}H_{72}O_{13}$ (785.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

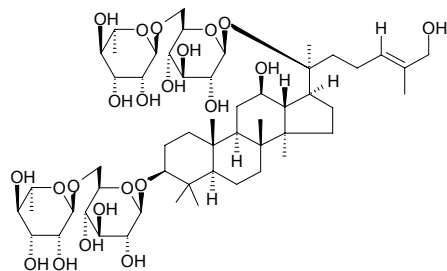
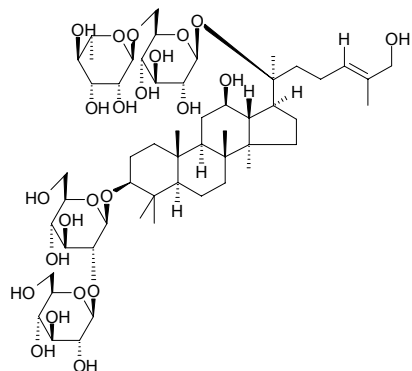
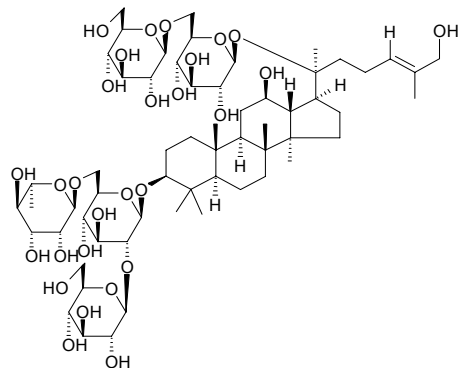
**9133 Gypenoside XIII**

Gynosaponin M [80325-22-0] $C_{41}H_{70}O_{12}$ (755.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 1521.

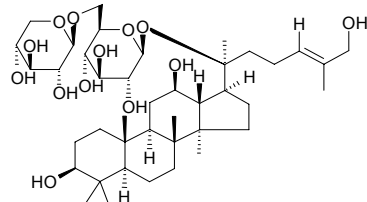
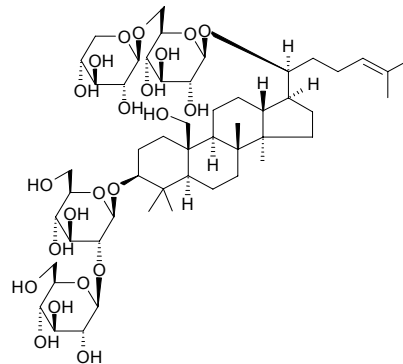
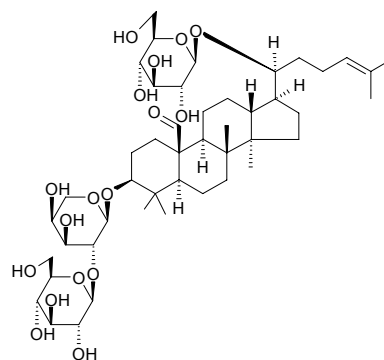
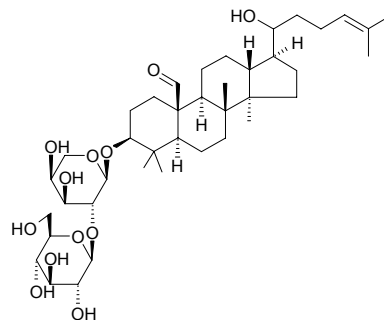
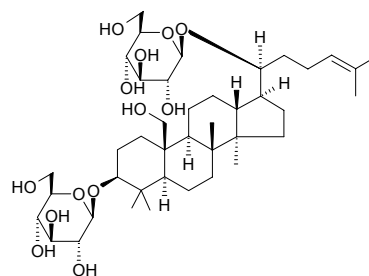
**9134 Gypenoside XVII**

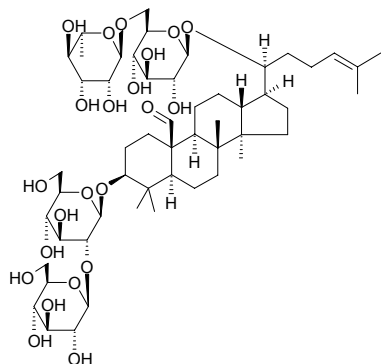
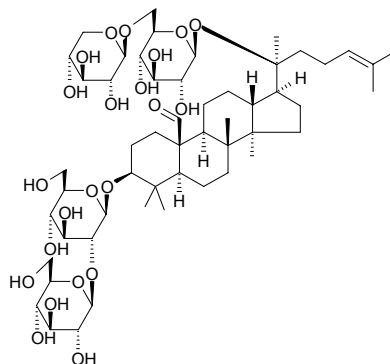
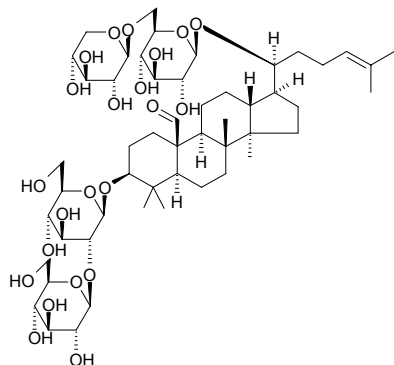
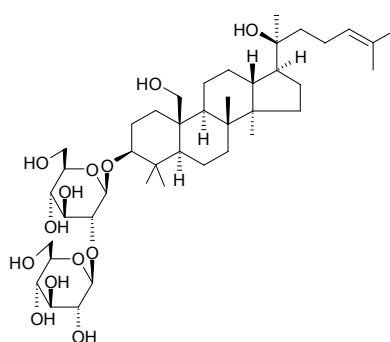
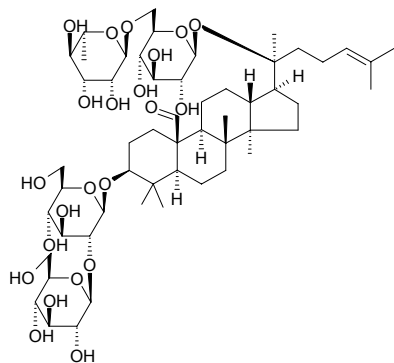
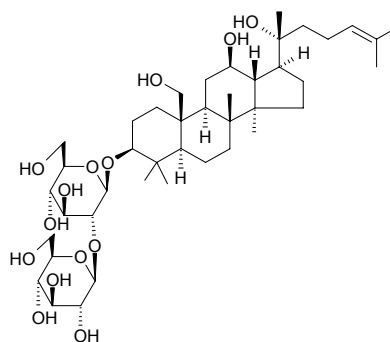
Gynosaponin S $C_{48}H_{82}O_{18}$ (947.18). Pharm: Hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, *D*-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 95%; 100mg/kg ip for sAST, InRt = 91%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. Source: JIAO GU LAN *Gynostemma pentaphyllum*, SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.18%dw)^[4702]. Ref: 2, 1521, 4702.

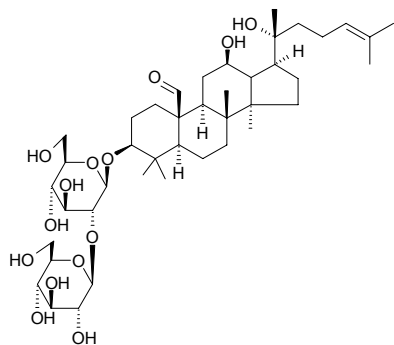
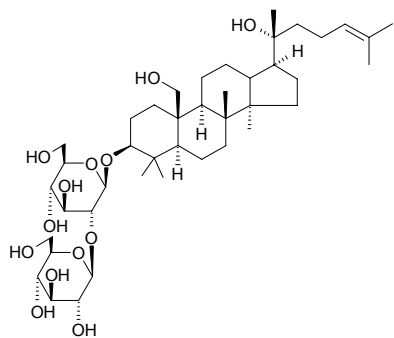
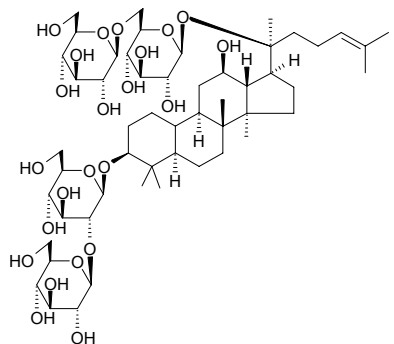
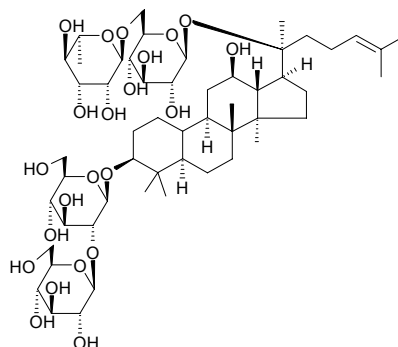
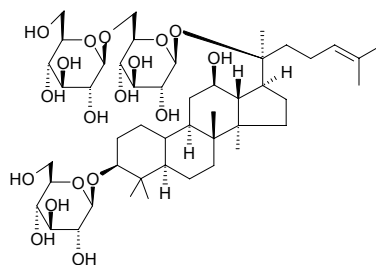
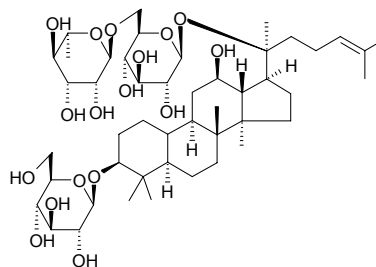


9135 Gypenoside XVIIIC₅₄H₉₂O₂₂ (1093.32). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9136 Gypenoside XIX**[80321-66-0] C₅₄H₉₂O₂₃ (1109.32). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.**9137 Gypenoside XX**C₆₀H₁₀₂O₂₈ (1271.47). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2, 1521.**9138 Gypenoside XXI**C₄₁H₇₀O₁₃ (771.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref:

2, 1521.

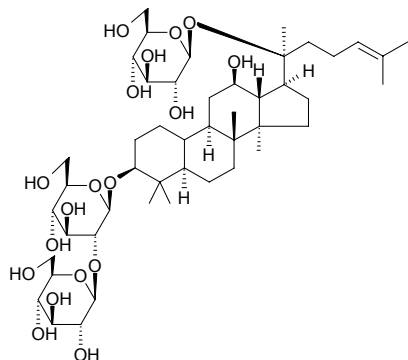
**9139 Gypenoside XXII**C₅₂H₈₈O₂₂ (1065.27). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9140 Gypenoside XXVI**C₄₆H₇₆O₁₇ (901.11). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9141 Gypenoside XXIX**C₄₀H₆₆O₁₂ (738.96). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9142 Gypenoside XXX**C₄₁H₇₀O₁₃ (771.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.

9143 Gypenoside XXXIVC₅₃H₈₈O₂₂ (1077.28). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9146 Gypenoside XXXVII**C₅₃H₈₈O₂₂ (1077.28). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9144 Gypenoside XXXV**C₅₂H₈₆O₂₂ (1063.25). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9147 Gypenoside XXXVIII**C₄₂H₇₂O₁₃ (785.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9145 Gypenoside XXXVI**C₅₄H₉₀O₂₂ (1091.31). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9148 Gypenoside XXXIX**C₄₂H₇₂O₁₄ (801.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.

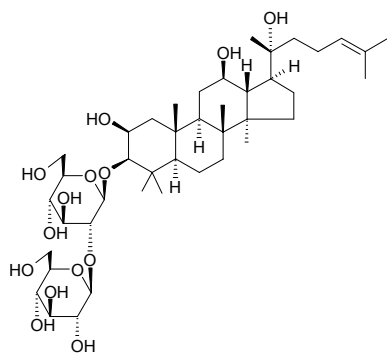
9149 Gypenoside XLC₄₂H₇₀O₁₄ (799.02). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9150 Gypenoside XLI**C₄₂H₇₂O₁₃ (758.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.**9151 Gypenoside XLII**C₅₃H₉₀O₂₃ (1095.29). Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*, JIAO GU LAN *Gynostemma pentaphyllum* (leaf)^[4757]. Ref: 2, 329, 4757.**9152 Gypenoside XLIII**C₅₃H₉₀O₂₂ (1079.30). Source: JIAO GU LAN *Gynostemma**pentaphyllum*. Ref: 2.**9153 Gypenoside XLIV**C₄₇H₈₀O₁₈ (933.15). Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*, JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 329.**9154 Gypenoside XLV**C₄₇H₈₀O₁₇ (917.15). Source: JIAO GU LAN *Gynostemma pentaphyllum*.Ref: 2.

9155 Gypenoside XLVI

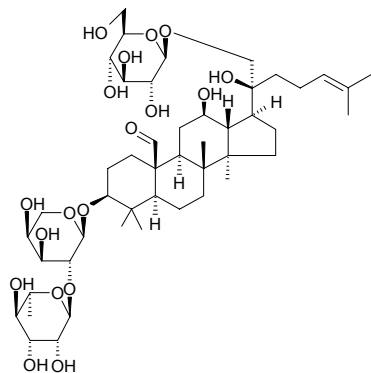
$C_{47}H_{80}O_{18}$ (933.15). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.051%dw)^[4757]. Ref: 2, 4757.

**9156 Gypenoside LI**

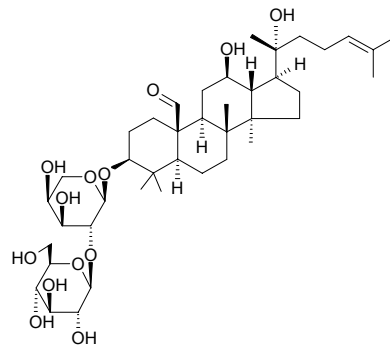
$C_{42}H_{72}O_{14}$ (801.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9157 Gypenoside LII**

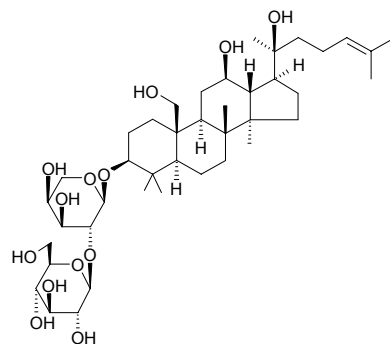
$C_{47}H_{78}O_{18}$ (931.13). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9158 Gypenoside LIII**

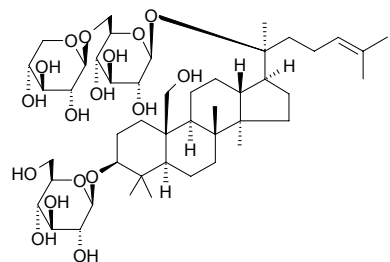
$C_{41}H_{68}O_{13}$ (768.99). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9159 Gypenoside LIV**

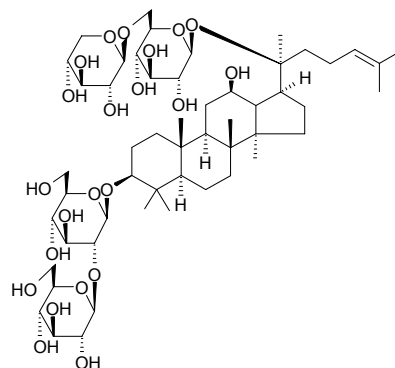
$C_{41}H_{70}O_{13}$ (771.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9160 Gypenoside LV**

$C_{47}H_{80}O_{17}$ (917.15). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

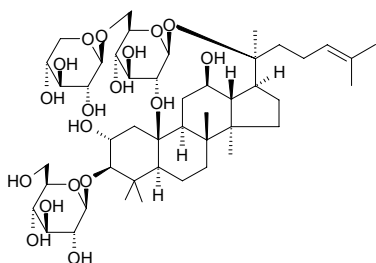
**9161 Gypenoside LVI**

$C_{53}H_{90}O_{22}$ (1079.30). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.00063%dw)^[4757]. Ref: 2, 1521, 4757.

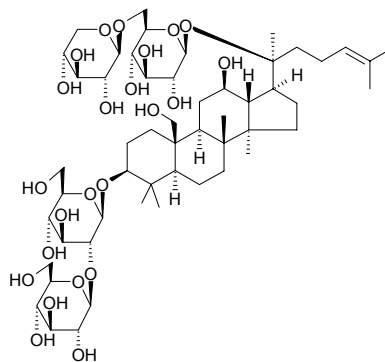


9162 Gypenoside LVII

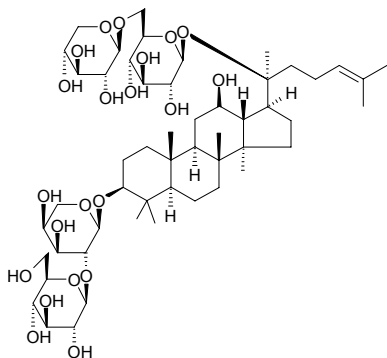
$C_{47}H_{80}O_{18}$ (933.15). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.051%dw)^[4757]. Ref: 2, 1521, 4757.

**9166 Gypenoside LXII**

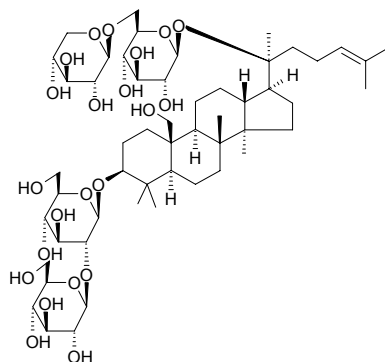
$C_{53}H_{90}O_{23}$ (1095.29). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9163 Gypenoside LVIII**

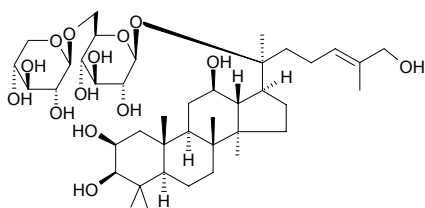
$C_{52}H_{88}O_{21}$ (1049.27). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9167 Gypenoside LXIII**

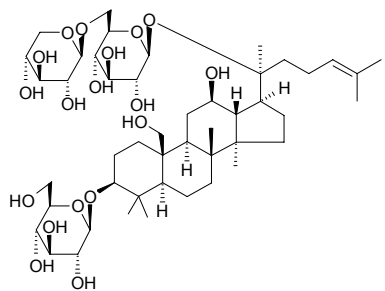
$C_{53}H_{90}O_{22}$ (1079.30). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9164 Gypenoside LIX**

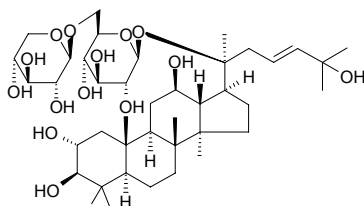
[105214-50-4] $C_{41}H_{70}O_{14}$ (787.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 1521.

**9168 Gypenoside LXIV**

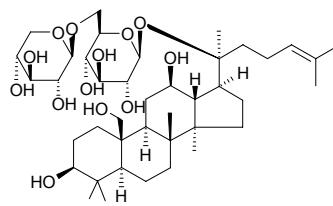
$C_{47}H_{80}O_{18}$ (933.15). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9165 Gypenoside LX**

$C_{41}H_{70}O_{14}$ (787.01). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.00023%dw)^[4757]. Ref: 2, 4757.

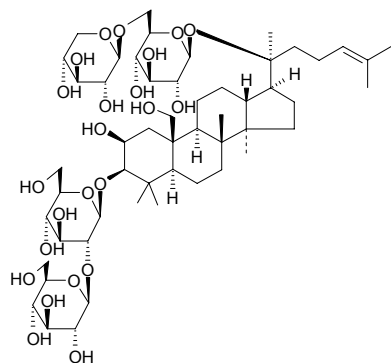
**9169 Gypenoside LXV**

$C_{41}H_{70}O_{13}$ (771.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.



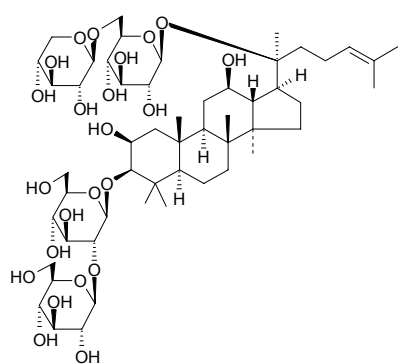
9170 Gypenoside LXVII

$C_{53}H_{90}O_{23}$ (1095.29). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9171 Gypenoside LXVIII**

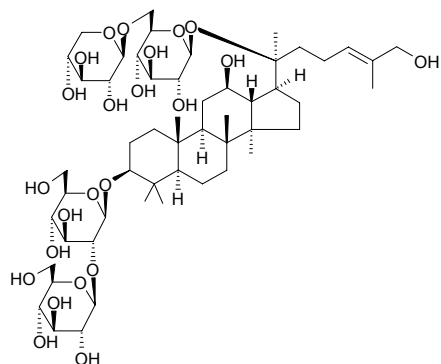
$C_{53}H_{90}O_{23}$ (1095.29). Source: JIAO GU LAN *Gynostemma pentaphyllum*.

Ref: 2.

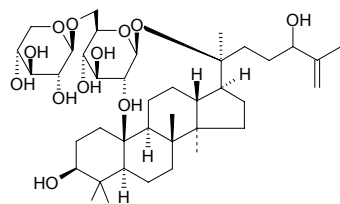
**9172 Gypenoside LXX**

$C_{53}H_{90}O_{23}$ (1095.29). Source: JIAO GU LAN *Gynostemma pentaphyllum*.

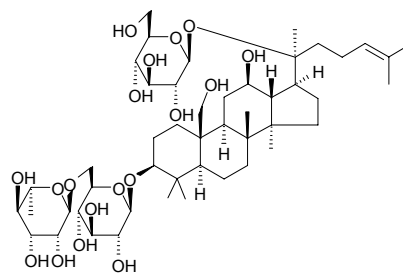
Ref: 2.

**9173 Gypenoside LXXI**

$C_{41}H_{70}O_{12}$ (755.01). Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0012%dw)^[4751]. Ref: 2, 4751.

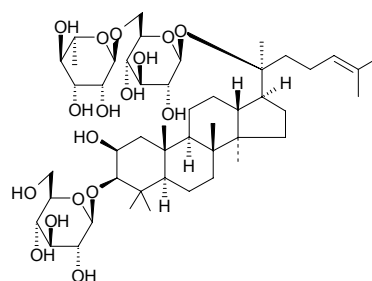
**9174 Gypenoside LXXII**

$C_{48}H_{82}O_{18}$ (947.18). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9175 Gypenoside LXXIII**

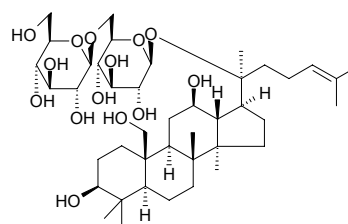
$C_{48}H_{82}O_{17}$ (931.18). Source: JIAO GU LAN *Gynostemma pentaphyllum*.

Ref: 2.

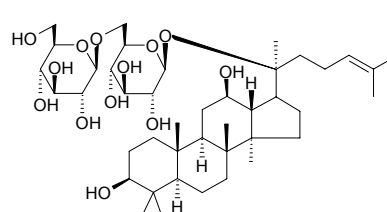
**9176 Gypenoside LXXIV**

$C_{42}H_{72}O_{14}$ (801.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*.

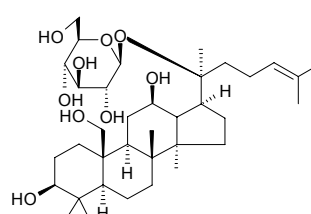
Ref: 2.

**9177 Gypenoside LXXV**

$C_{42}H_{72}O_{13}$ (785.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

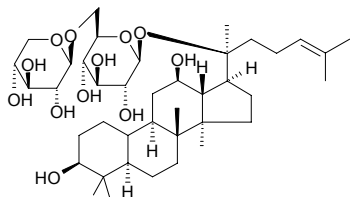
**9178 Gypenoside LXXVI**

$C_{36}H_{62}O_9$ (638.89). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

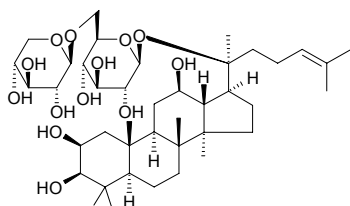


9179 Gypenoside LXXVII

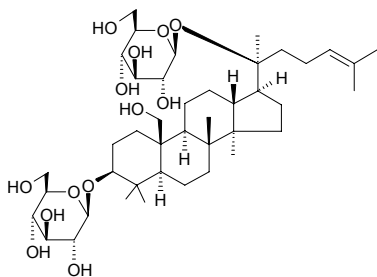
$C_{40}H_{68}O_{12}$ (740.98). Source: JIAO GU LAN *Gynostemma pentaphyllum* (leaf: yield = 0.061%dw)^[4757]. Ref: 2, 4757.

**9180 Gypenoside LXXVIII**

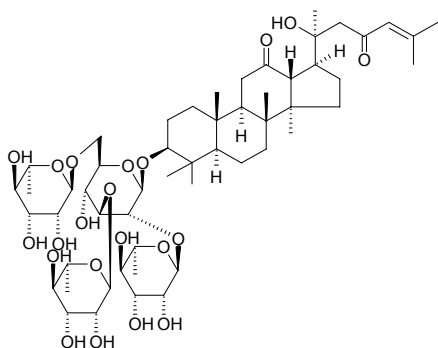
$C_{41}H_{70}O_{13}$ (771.01). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9181 Gypenoside LXXIX**

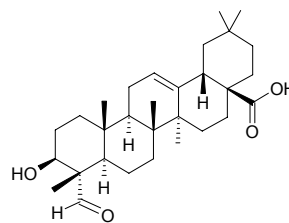
$C_{42}H_{72}O_{13}$ (785.03). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

**9182 Gypentonoside A**

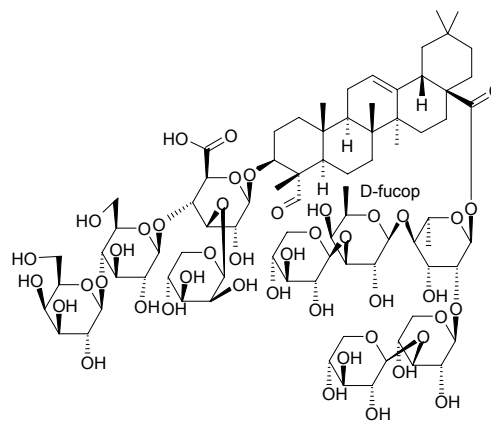
[20S]-3 β ,20-Dihydroxy-24-dammaren-12,23-dione-3-O-[α -L-rhamnopyranosyl-(1 \rightarrow 2)-[α -L-rhamnopyranosyl-(1 \rightarrow 3)]- α -L-rhamnopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside $C_{54}H_{88}O_{21}$ (1073.29). White powder, mp 272~274°C. Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 364.

**9183 Gypsogenin**

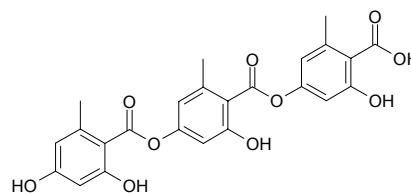
[639-14-5] $C_{30}H_{46}O_4$ (470.70). mp 274°C. Pharm: Toxin (mammal). Source: YIN CHAI HU *Stellaria dichotoma* var. *lanceolata*, SHAN YIN CHAI HU *Gypsophila pacifica*, MAI XIAN WENG *Agrostemma githago*. Ref: 6, 658.

**9184 Gypsoside**

[15588-68-8] $C_{80}H_{126}O_{44}$ (1791.87). mp 215~220°C (dec), $[\alpha]_D^{20} = 22.1^\circ \pm 2^\circ$ (c = 3.07, water). Pharm: Antispasmodic (delays convulsive spasm, mus, caused by corazol, camphor or coffeine); hypnotic (mus hypnotic synergism with barbital sodium and chloral hydrate); antihypercholesterolemic (atherosis rbt, reduces the level of cholesterol in serum, cholesterol/cephalin coefficient, and lipid content in aorta); anticonvulsant (caused by strychnine). Source: SHAN YIN CHAI HU *Gypsophila pacifica*. Ref: 661.

**9185 Gyrophoric acid**

[548-89-0] $C_{24}H_{20}O_{10}$ (468.42). mp 220°C (dec). Source: SHI HUA *Parmelia saxatilis*. Ref: 6.



Jiaju Zhou · Guirong Xie · Xinjian Yan

Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Vol.3

Isolated Compounds H-M

 Springer

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Natural Sources and Applications

Jiaju Zhou • Guirong Xie • Xinjian Yan

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Traditional Chinese Medicines
Molecular Structures, Pharmacological
Activities, Natural Sources and Applications

Vol. 3: Isolated Compounds H-M

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Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Institute of Process Engineering, Chinese Academy of Sciences
Sep, 2010, Beijing

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Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

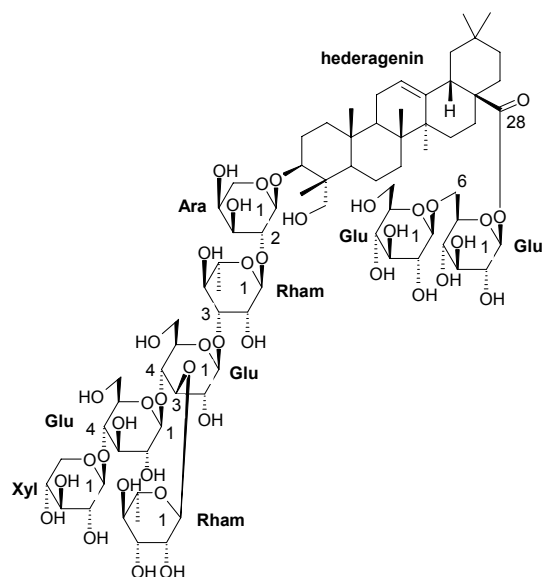
Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl(1 \rightarrow 4)]
 [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)-
 α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-
 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside

Normalization of Pharmacological Data. More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD₅₀, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

Term name (*in vitro/in vivo*,
 target cell **1**, quantitative data,
 control Compound, control's data;
 target cell **2**, quantitative data,
 control Compound, control's data;
 target cell **3**, quantitative data,
 control Compound, control's data;
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, $IC_{50} = 4.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.08\mu\text{g/mL}$;
 CHAGO human undifferentiated lung cancer cell, $IC_{50} = 5.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$;
 HepG2 human liver cancer cell, $IC_{50} = 6.5\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$;
 Kato3 human gastric cancer cell, $IC_{50} = 5.3\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$;
 SW620 human colorectal adenocarcinoma cell, $IC_{50} = 5.6\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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- R30** J. G. Harris and M. W. Harris, (Yufei Wang, et al., translated) *Plant Identification Terminology: An Illustrated Glossary*, Spring Lake Publishing, Payson UT, 2001, Science Press, Beijing, 2001
- R31** Rensheng Xu, et al., *Chemistry of Natural Products*, Second Edition, Science Press, Beijing, 2004
- R32** Jingying Tan, *English-Chinese Biological Dictionary of Biochemistry and Molecular Biology*, Second Edition, Science Press, Beijing, 2007
- R33** Wenbao Chang, et al., *Dictionary of Chemistry*, Science Press, Beijing, 2008

How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

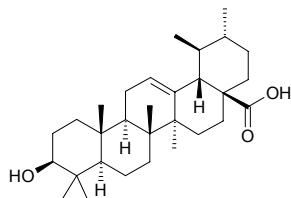
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.11µg/mL)^[4369];

cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)µmol/L, control Etoposide, IC₅₀ = (0.5±0.2)µmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)µmol/L; KB cell, IC₅₀ = (8.2±2.7)µmol/L, Etoposide, IC₅₀ = (0.9±0.3)µmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)µmol/L; HT29 cell, IC₅₀ = (4.7±1.5)µmol/L, Etoposide, IC₅₀ = (2.4±0.5)µmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)µmol/L)^[5254];

antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);

antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];

antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50~400µg/mL, gram-negative bacteria *in vitro*, MIC = 200~800µg/mL, microzyme *in vitro*, MIC = 100~700µg/mL);

antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5µg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3277)^[4986];

anticonvulsant (induced by corazol);

anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);

anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];

COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130µmol/L)^[4415];

COX-2 enzyme inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];

antipyretic (clearly reduces normal body temperature of rat);

reduces serum transaminase (animal, 100mg/kg);

antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)^[2579];

mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];

platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (511±4)µmol/L, control ASA, IC₅₀ = (420±3)µmol/L; 1~4µmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)µmol/L, ASA, IC₅₀ = (53.0±4.5)µmol/L; 10~40µmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)µmol/L, ASA, IC₅₀ = (66.0±2.1)µmol/L; 1~5µmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000µmol/L, ASA, IC₅₀ = (340±12)µmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)µmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (ltn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	D-GalN	D-galactosamine
c	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intra-dermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	N-methyl-D-aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmn Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccina open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermatoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGc803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

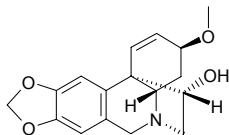
MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

Volume 3 Isolated Compounds (H-M)

H

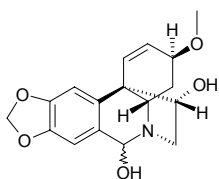
9186 Haemanthamine

Hemanthamine [466-75-1] $C_{17}H_{19}NO_4$ (301.35). mp 203~203.5°C, $[\alpha]_D^{25} = +19.7^\circ$ ($c = 3.8$, methanol), $[\alpha]_D^{25} = +33$ ($c = 1.25$, $CHCl_3$). **Pharm:** Antihypertensive (mild); antiretroviral and cytotoxic ($ID_{50} = 0.8\mu g/mL$, $TC_{50} = 1.0\mu g/mL$, $TI_{50} (TC_{50}/ID_{50}) = 1.3$)^[5026]. **Source:** XUE PIAN LIAN *Leucojum vernum* (bulb), family Amaryllidaceae spp. **Ref:** 658, 5026.



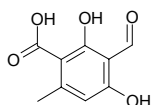
9187 Haemanthidine

Pancratine [466-73-9] $C_{17}H_{19}NO_5$ (317.34). mp 189~190°C (hemihydrate), $[\alpha]_D^{22} = -41^\circ$ ($c = 1$, $CHCl_3$). Exists in solution as a mixture of C6 epimers. **Pharm:** (-)-Haemanthidine activity: Cytotoxic (hmn prostate cancer LNCaP cell, $ED_{50} = 0.7\mu g/mL$; sarcoma cell HT, $ED_{50} = 1.6\mu g/mL$; A-431, KB, Lu1, ZR-75-1); analgesic (improved Koster trial, stronger than aspirin); sedative (mus, lengthens sleeping time induced by hexobarbital or pentobarbital). **Source:** GAN FENG CAO *Zephyranthes candida*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. **Ref:** 6, 1719, 1720, 1721.



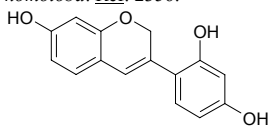
9188 Haematommic acid

$C_9H_8O_5$ (196.16). **Source:** JIN SI SHUA *Lethariella cladonioides* **Ref:** 660.



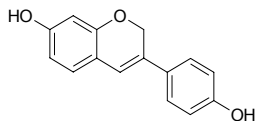
9189 Haginin D

2',4',7-Trihydroxyisoflavone $C_{15}H_{12}O_4$ (256.26). **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2\mu mol/L$, control EGCg, $IC_{50} = 0.07\mu mol/L$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.



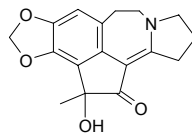
9190 Haginin E

$C_{15}H_{12}O_3$ (240.26). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.3\mu mol/L$, control EGCg, $IC_{50} = 0.07\mu mol/L$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.



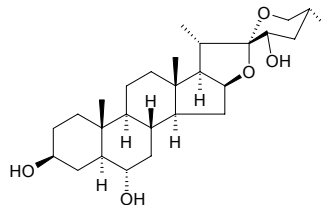
9191 Hainanensine

$C_{17}H_{17}NO_4$ (299.33). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 660.



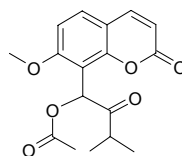
9192 Hainangenin

$C_{27}H_{44}O_5$ (448.65). **Source:** JIAN MA *Agave sisalana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*]. **Ref:** 10.



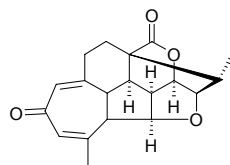
9193 Hainanmurpanin

[95360-22-8] $C_{17}H_{18}O_6$ (318.33). Crystals, mp 98~101°C, $[\alpha]_D^{28} = +7^\circ$ ($CHCl_3$). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.



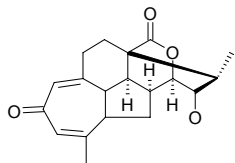
9194 Hainanolide

Harringtonolide [64761-48-4] $C_{19}H_{18}O_4$ (310.35). Pale yellow crystals (CH_2Cl_2 -MeOH), mp 285~288°C (dec), $[\alpha]_D^{30} = +83.0^\circ$ ($c = 1.5$, $CHCl_3$); mp 266~268°C. **Pharm:** Cytotoxic (KB oral epidermoid carcinoma, $ED_{50} = 0.11\mu g/mL$; Hep3B hepatoma cells, $ED_{50} = 0.05\mu g/mL$; HeLa, $ED_{50} = 0.37\mu g/mL$)^[4253]; antineoplastic (L-615, S180, W256, P388, L1210, and Lewis lung cancer); antiviral (influenza virus, Newcastle disease virus, epidemic type-B encephalitis virus and vaccinia virus, tissue culture model). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], SAN JIAN SHAN *Cephalotaxus fortunei*, TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig), ZHONG GUO CU FEI ZI *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 658, 660, 4253.

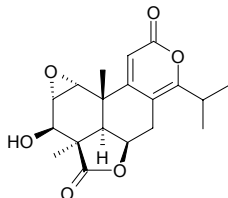


9195 Hainanolidol

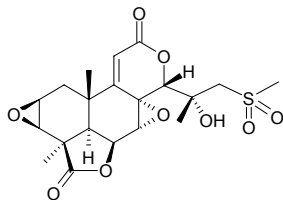
[73213-63-5] C₁₉H₂₀O₄ (312.37). Source: HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*], SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 660.

**9196 Hallactone A**

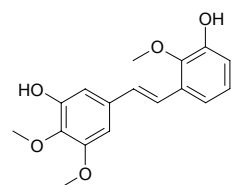
[41787-72-8] C₁₉H₂₂O₆ (346.38). Crystals, mp 266~268°C (dec). Pharm: Larvicide (toxic to larva of housefly). Source: HA SHI LUO HAN SONG *Podocarpus hallii*. Ref: 658.

**9197 Hallactone B**

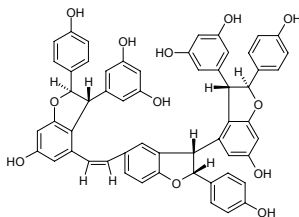
[35470-59-8] C₂₀H₂₄O₉S (440.47). Crystals, mp 325~330°C (dec). Pharm: Larvicide (toxic to larva of housefly). Source: HA SHI LUO HAN SONG *Podocarpus hallii*. Ref: 658.

**9198 Halophilol A**

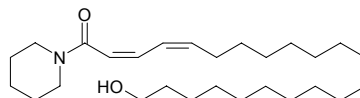
C₁₇H₁₈O₅ (302.33). Amorphous powder. Pharm: Cytotoxic (KB, IC₅₀ = 17.28 μmol/L; hmn microvascular endothelial cells HMEC, IC₅₀ = 22.47 μmol/L). Source: XI YAN YUAN WEI *Iris halophila* (seed). Ref: 5429.

**9199 Halophilol B**

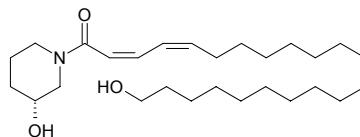
C₅₆H₄₂O₁₂ (906.95). Brown amorphous powder, [α]_D²⁵ = +152.4° (c = 1.28, MeOH). Pharm: Cytotoxic inactive (KB and HMEC). Source: XI YAN YUAN WEI *Iris halophila* (seed). Ref: 5429.

**9200 Haloxyline A**

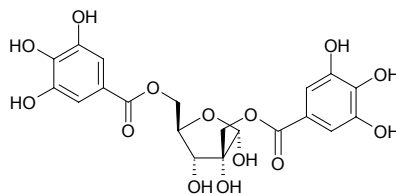
C₂₇H₄₉NO₂ (419.70). Colorless crystals, mp 161~162°C. Pharm: AChE inhibitor (*in vitro*, IC₅₀ = (25.3±0.02) μmol/L, control Galanthamine, IC₅₀ = (0.5±0.05) μmol/L); BChE inhibitor (*in vitro*, IC₅₀ = (19.0±0.03) μmol/L, control Galanthamine, IC₅₀ = (8.5±0.01) μmol/L); antifungal (*Trichophyton longifusus*, *Candida albicans*, *Aspergillus flavus*, *Microsporum canis*, *Candida glabrata*, *Fusarium solani*). Source: YAN JIAO CAO SUO SUO *Haloxylon salicornicum* (whole herb). Ref: 4460.

**9201 Haloxyline B**

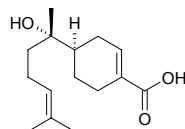
C₂₇H₄₉NO₃ (435.70). Colorless crystals, mp 142~143°C. Pharm: AChE inhibitor (*in vitro*, IC₅₀ = (20.2±0.01) μmol/L, control Galanthamine, IC₅₀ = (0.5±0.05) μmol/L); BChE inhibitor (*in vitro*, IC₅₀ = (14.7±0.02) μmol/L, control Galanthamine, IC₅₀ = (8.5±0.01) μmol/L); antifungal (*Trichophyton longifusus*, *Candida albicans*, *Aspergillus flavus*, *Microsporum canis*, *Candida glabrata*, *Fusarium solani*). Source: YAN JIAO CAO SUO SUO *Haloxylon salicornicum* (whole herb). Ref: 4460.

**9202 Hamamelitannin**

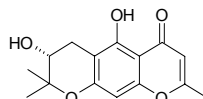
C₂₀H₂₀O₁₄ (484.37). Pharm: 5-LOX inhibitor (IC₅₀ = 1.0~18.7 μmol/L)^[4415]. Source: BAI GUO *Ginkgo biloba*, HONG LI *Quercus rubra*, MEI ZHOU JIN LV MEI *Hamamelis virginiana*, OU ZHOU LI *Castanea sativa*. Ref: 660, 1521, 4415.

**9203 Hamausic acid A**

C₁₅H₂₄O₃ (252.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

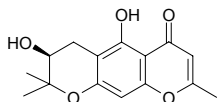
**9204 3'(R)-(+)-Hamaudol**

[204779-06-6] C₁₅H₁₆O₅ (276.29). Yellow acicular crystals, mp 187~189°C. Source: MA SHAN QIAN HU *Peucedanum mshanens*. Ref: 803.

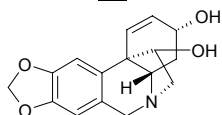


9205 3'(S)-(-)-Hamaudol

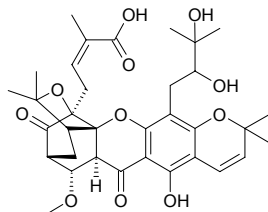
[735-46-6] C₁₅H₁₆O₅ (276.29). Needles (C₂H₅OH), mp 202~202.5°C, [α]_D²⁵ = -22.0° (c = 0.46, CHCl₃). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2.

**9206 Hamayne**

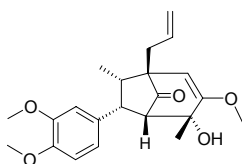
Bulbispermine; Demethylcrinamine [61948-11-6] C₁₆H₁₇NO₄ (287.32). Pharm: AChE inhibitor (IC₅₀ = (553±3)μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2)μmol/L). Source: GUAN MU WEN SHU LAN *Crinum macowanii*. Ref: 4952.

**9207 Hanburinone**

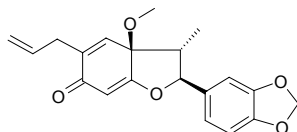
C₃₄H₄₂O₁₁ (626.71). Yellow gum, [α]_D²⁸ = -62° (c = 0.09, CHCl₃). Source: TENG HUANG SHU *Garcinia hanburyi* (fresh fruit). Ref: 4487.

**9208 Hancinol**

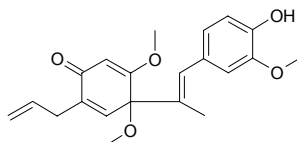
rel-(7S,8S,1'R,3'S,4'R)-1'-Allyl-7-(3,4-dimethoxyphenyl)-4'-hydroxy-5'-methoxy-8-methyl-2'-oxobicyclo[3.2.1]oct-5'-ene [108864-50-2] C₂₂H₂₈O₅ (372.47). Source: SHAN JU *Piper hancei*. Ref: 75.

**9209 Hancinone**

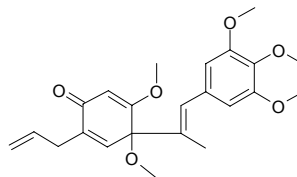
C₂₀H₂₀O₅ (340.38). Source: SHAN JU *Piper hancei*, YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 54, 660, 4439.

**9210 Hancinone B**

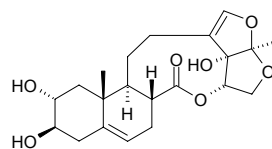
C₂₁H₂₄O₅ (356.42). Source: SHAN JU *Piper hancei*. Ref: 660.

**9211 Hancinone C**

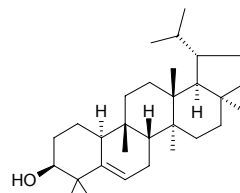
C₂₃H₂₈O₆ (400.48). Source: SHAN JU *Piper hancei*. Ref: 660.

**9212 Hancogenin B**

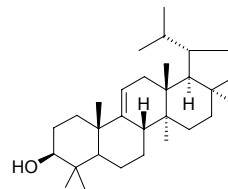
C₂₁H₂₈O₇ (392.45). Colorless acicular crystals (acetone), mp 202~203°C. Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 237.

**9213 Hancokinol**

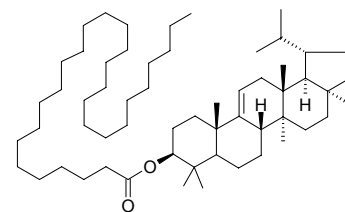
25,26-Dinor-9,13-dimethylpup-5-en-3-ol [132294-77-0] C₃₀H₅₀O (426.73). Needles (MeOH), mp 229~230°C, [α]_D²⁰ = +16.2° (c = 0.77, CHCl₃); mp 221~223°C; colorless acicular crystals (chloroform), mp 223~225°C. Source: HUA BEI BAI QIAN *Cynanchum hancockianum*, LIU YE BAI QIAN *Cynanchum stauntonii*. Ref: 510, 198, 1521.

**9214 Hancolupenol**

C₃₀H₅₀O (426.73). Colorless acicular crystals, mp 184~185°C (chloroform), [α]_D²⁹ = +14.9° (c = 0.3, chloroform). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 198.

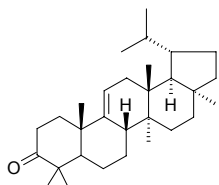
**9215 Hancolupenol octacosanate**

C₅₈H₁₀₄O₂ (833.47). Amorphous powder, mp 99~101°C (chloroform). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 198.

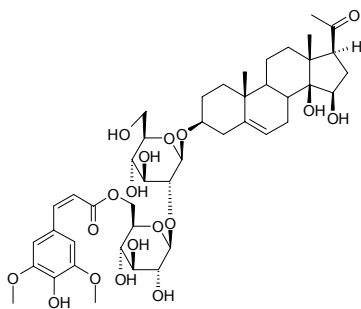


9216 Hancolupenone

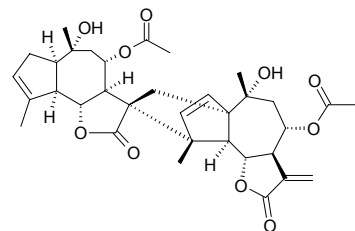
$C_{30}H_{48}O$ (424.72). Colorless acicular crystals, mp 228.0~229.5°C (chloroform), $[\alpha]_D^{29} = +14.9^\circ$ ($c = 0.2$, chloroform). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 198.

**9217 Hancoside A**

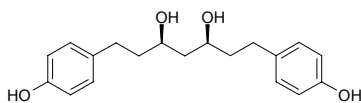
Hancoside [145701-08-2] $C_{44}H_{62}O_{18}$ (878.97). White powder, mp 185~187°C (methanol). $[\alpha]_D^{27} = -12.3^\circ$ ($c = 0.13$, dioxycyclohexane). Pharm: Anti-endotoxin. Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 237, 1071.

**9218 Handelin**

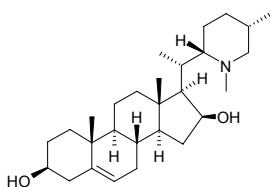
Chrysanthelide $C_{34}H_{42}O_{10}$ (610.70). Source: YE JU HUA *Chrysanthemum indicum*. Ref: 660.

**9219 Hannokinol**

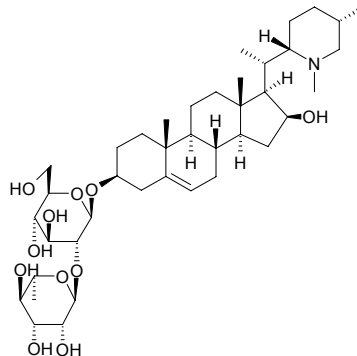
1,7-Bis(4-hydroxyphenyl)-3*R*,5*S*-heptanediol $C_{19}H_{24}O_4$ (316.40). Source: CHI YANG *Alnus japonica*. Ref: 660.

**9220 Hapepunine**

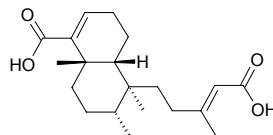
[68422-01-5] $C_{27}H_{47}NO_2$ (429.69). Needles (C_2H_5OH), mp 201~202°C, $[\alpha]_D = -72.6^\circ$. Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], HEI BAI HE *Fritillaria camtschatcensis*. Ref: 2201.

**9221 Hapepunine 3-O-α-L-rhamnosyl-(1→2)-β-D-glucopyranoside**

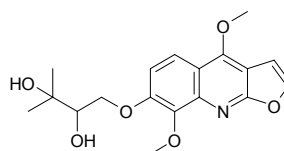
$C_{40}H_{67}NO_{11}$ (737.98). Needles, +1H₂O (MeOH aq.) mp 269~274°C (dec), $[\alpha]_D = -67.2^\circ$ ($c = 1.5$, pyridine). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 1521, 2201.

**9222 Haplopappic acid**

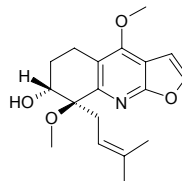
$C_{20}H_{30}O_4$ (334.46). Source: GE LUN BI YA BA DOU *Croton schiedeana* (aerial parts). Ref: 4447.

**9223 Haploperine**

Haplophytin B; Evoxine [522-11-2] $C_{18}H_{21}NO_6$ (347.37). mp 154~155°C, mp 151~152°C, $[\alpha]_D = +5^\circ$ (ethanol), $[\alpha]_D^{22} = +14.6^\circ$ (ethanol); mp 151.5~153°C, $[\alpha]_D = +63.6^\circ$ ($c = 0.33$, MeOH). Pharm: Anticonvulsant (mus and rat, caused by camphor); hypnotic (mus); sedative (mus, chloride); antibacterial inactive (various tested bacteria)^[5175]; antifungal inactive (various tested fungi)^[5175]; LD₅₀ (mus, ip) = 705mg/kg, (mus, iv) = 135mg/kg. Source: DA YE YUN XIANG CAO *Haplophyllum perforatum*, JIAN YE YUN XIANG CAO *Haplophyllum acutifolium*. Ref: 661, 1521, 5175.

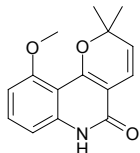
**9224 Haplophyllidine**

[18063-21-3] $C_{18}H_{23}NO_4$ (317.39). Colorless acicular crystals (petroleum ether), mp 110~111°C, $[\alpha]_D^{20} = -16.24^\circ$ ($c = 1.477$, acetone). Pharm: Anti-atropine (dog, iv, 20mg/kg); diuretic (mus); hypnotic (hypnotic synergism with solubilized hexobarbital, phenobarbital, chloral hydrate); sedative (mus). Source: DA YE YUN XIANG CAO *Haplophyllum perforatum*, *Haplophyllum glabrinum*. Ref: 658, 1521.

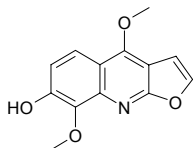


9225 Haplophytin A

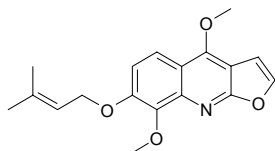
$C_{15}H_{15}NO_3$ (257.29). mp 209~210.5°C, $[\alpha]_D = 0^\circ$ ($c = 0.506$, $CHCl_3$). **Pharm:** Antibacterial inactive (various tested bacteria); antifungal inactive (various tested fungi). **Source:** JIAN YE YUN XIANG CAO *Haplophyllum acutifolium*. **Ref:** 5175.

**9226 Haplopine**

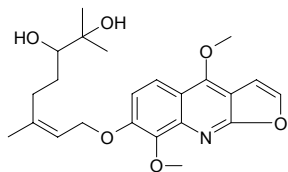
[5876-17-5] $C_{13}H_{11}NO_4$ (245.24). mp 203~204°C. **Pharm:** Phototoxic (yeast, *Saccharomyces cerevisiae*); photo-activated antibacterial (*Staphylococcus aureus*)^[4989]; photo-activated antifungal (*Candida albicans* weak)^[4989]; photo-activated DNA binding (Asc I and Sma I with restriction sequences consisting only of G and C was very weak)^[4989]; cytotoxic (P₃₈₈ cell line, ED₅₀ = 7.6 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 13.1 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 3.3 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL)^[5405]. **Source:** HUA JIAO LE *Zanthoxylum cuspidatum*, SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*, *Sarcomelicope glauca*. **Ref:** 658, 1521, 4989, 5405.

**9227 Haplopine-3,3'-dimethylallylether**

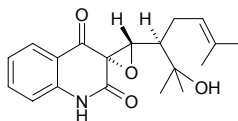
$C_{18}H_{19}NO_4$ (313.36). Yellow needles, mp 100~101°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**9228 Haplotubine**

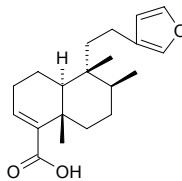
$C_{23}H_{29}NO_6$ (415.49). Amorphous yellow powder, $[\alpha]_D^{22} = -6^\circ$ ($c = 1.2$, CH_2Cl_2). **Source:** LIU ZHUANG DAN YE YUN XIANG *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*] (aerial parts). **Ref:** 5156.

**9229 Haplotubinone**

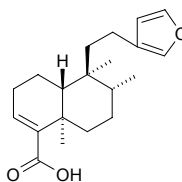
$C_{19}H_{23}NO_4$ (329.40). Colorless crystals (ether), mp 177.0~178.0°C, $[\alpha]_D^{22} = 0^\circ$ ($c = 0.500$, CH_2Cl_2). **Source:** LIU ZHUANG DAN YE YUN XIANG *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*] (aerial parts). **Ref:** 5156.

**9230 (+)-Hardwickiic acid**

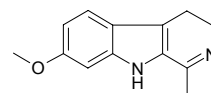
$C_{20}H_{28}O_3$ (316.44). **Source:** JIA LIAN QIAO YE *Duranta repens*. **Ref:** 4050.

**9231 (-)-Hardwickiic acid**

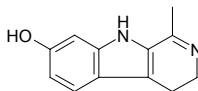
$C_{20}H_{28}O_3$ (316.44). Crystallized (MeOH-H₂O), mp 114~116°C, $[\alpha]_D^{25} = -84.7^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** *Salvia wagneriana* (aerial parts). **Ref:** 4976.

**9232 Harmaline**

4,9-Dihydro-7-methoxy-1-methyl-3H-pyrido[3,4-b]indole; Harmidine; Dihydroharmine [304-21-2] $C_{13}H_{14}N_2O$ (214.27). Rhombic columnar crystals (methanol), rhombic octahedral crystals (ethanol), mp 229~231°C, slightly soluble in water, ether, soluble in ethanol.^[5507] **Pharm:** CNS activity (stimulates pallium, spinal cord and motorium to cause illusion, tremors, and paroxysmal convulsions); striated muscle stimulant (high dose); slows heart rate (frog heart *in vitro* EC = 1:25000); monoamine oxidase inhibitor; intestinal smooth muscle relaxant (small intestine, low dose); stimulates pons (causes spasm and stiffness in limbs). **Source:** LUO TUO PENG *Peganum harmala*, JI DAN GUO *Passiflora edulis*, FEN HONG SE XI FAN LIAN *Passiflora incarnata*, LUO TUO PENG ZI *Peganum harmala*. **Ref:** 6, 658, 1521, 5507.

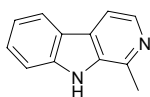
**9233 Harmalol**

[525-57-5] $C_{12}H_{12}N_2O$ (200.24). Trihydrate, red acicular crystals (C_2H_5OH aq.), absolute substance mp 212°C (dec). **Pharm:** Causes progressive paralysis of CNS (animal model); inhibits transport of active sodium (in bladder); monoamine oxidase inhibitor; Na^+ , K^+ -ATP inhibitor; antihypertensive; Slows heart rate and enhances myocardial contractility (anesthetic dog, chloride). **Source:** LUO TUO PENG *Peganum harmala*, JI DAN GUO *Passiflora edulis*. **Ref:** 661, 1521.

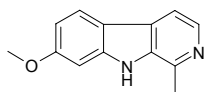


9234 Harman

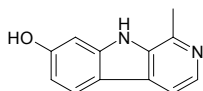
[486-84-0] C₁₂H₁₀N₂ (182.23). mp 237~238°C, mp 228°C. **Pharm:** Antifungal (*Trichophyton interdigitalis*, MIC = 1.6~200.0µg/mL); bidirectional action to nervous system (motor depressant in low dose and causes convulsion in high dose); inhibits transport of active sodium (frog, bladder); Na⁺,K⁺-ATP inhibitor (frog kidney); plant growth inhibitor; uterine stimulant. **Source:** CI JI LI *Tribulus terrestris*, CU LIU GUO *Hippophae rhamnoides*, FEN HONG SE XI FAN LIAN *Passiflora incarnata*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], JI DAN GUO *Passiflora edulis*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), RI BEN SHE GEN CAO *Ophiorrhiza japonica*, SHA ZAO *Elaeagnus angustifolia*, YUAN ZHI *Polygala tenuifolia*, ZHU ZI SHU *Symplocos racemosa*, DONG FANG GOU TENG *Uncaria orientalis*, DUO MAI GOU TENG *Uncaria nervosa*, HOU YE GOU TENG *Uncaria callophylla*, MIAN MAO GOU TENG *Uncaria lanosa*, PO LUO ZHOU GOU TENG *Uncaria borneensis*, QIAN HUI GOU TENG *Uncaria canescens*, SUAN GOU TENG *Uncaria acida*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*, *Uncaria barbata*, occurs in many plants. **Ref:** 2, 539, 658, 4527, 5341.

**9235 Harmine**

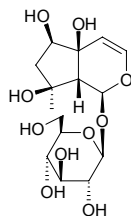
Banisterine; Leucuharmine; Telepathine; Yageine [442-51-3] C₁₃H₁₂N₂O (212.25). Crystals, mp 257~259°C, mp 264~265°C. **Pharm:** Antitrypanosomal; CVS activity (anesthetic dog, chloride, slows heart rate, increases output blood pressure, blood flow in aorta and myocardial contractility); hallucinogen (large dose); uterine relaxant; monoamine oxidase inhibitor (hmn); CNS stimulant. **Source:** CI JI LI *Tribulus terrestris*, JI DAN GUO *Passiflora edulis*, LUO TUO PENG *Peganum harmala*, LUO TUO PENG ZI *Peganum harmala*, SHA ZAO *Elaeagnus angustifolia*, SHAN YOU MA *Trema dielsiana*, XIANG TANG SONG CAO *Thalictrum foetidum*. **Ref:** 4, 6, 658, 660, 1521.

**9236 Harmol**

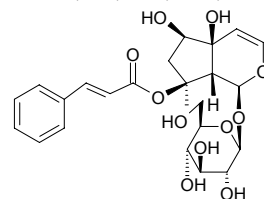
7-Hydroxyharman [149022-16-2] C₁₂H₁₀N₂O (198.23). mp 321°C, mp 304~307°C. **Source:** CU LIU GUO *Hippophae rhamnoides*, LUO TUO PENG ZI *Peganum harmala*, JI LI GEN *Tribulus terrestris*, SHA ZAO *Elaeagnus angustifolia*, FEN HONG SE XI FAN LIAN *Passiflora incarnata*. **Ref:** 6, 1521.

**9237 Harpagide**

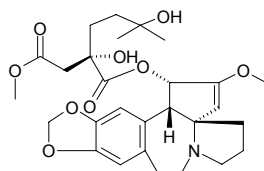
C₁₅H₂₄O₁₀ (364.35). **Pharm:** Neuroprotective (primary cultures of rat cortical cells injured by 50µmol/L glutamate, 0.1µmol/L, cell viability = 41.4%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%)^[4660]. **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.0004%)^[4660]; the compound was isolated from the plant by Isao Kitakawa et al. in 1967^[5505], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 660, 4483, 4660, 5505.

**9238 Harpagoside**

C₂₄H₃₀O₁₁ (494.50). [α]_D²¹ = -27.7° (c = 0.194, chloroform); -42.6° (c = 0.990, methanol); -37.5° (c = 0.670, water). **Pharm:** Analgesic (rbt ear model); anti-inflammatory (granuloma model); nicotine antagonist (gpg, ileum *in vitro*); elastase inhibitor (hmn leukocyte *in vitro*, IC₅₀ > 500µg/mL = >800µmol/L; control Caffeic acid, IC₅₀ = 86µg/mL = 475µmol/L)^[5458]; neuroprotective (primary cultures of rat cortical cells injured by 50µmol/L glutamate, 0.1µmol/L, cell viability = 38.2%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%)^[4660]. **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.00032%)^[4660], LIN SHENG XUAN SHEN *Scrophularia nodosa*, NAN FEI GOU MA *Harpagophytum procumbens*, XUAN SHEN *Scrophularia ningpoensis* (root: mean content of 22 origins = 0.136%)^[5508], *Lamium* sp. **Ref:** 658, 661, 4660, 5458, 5508.

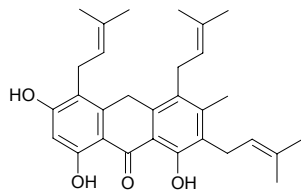
**9239 Harringtonine**

[26833-85-2] C₂₈H₃₇NO₉ (531.61). mp 73~75°C. **Pharm:** Antineoplastic (mouse leukemia L₆₁₅ and L₇₂₁₂, sarcoma S₁₈₀, rat Walker sarcoma). **Source:** BI ZI CU FEI *Cephalotaxus oliveri*, HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*] (branchlet and bark: mean content of 2 samples = 0.032%)^[5508], RI BEN CU FEI *Cephalotaxus harringtonia*, SAN JIAN SHAN *Cephalotaxus fortunei* (branchlet and bark: mean content of 2 origins = 0.021%)^[5508], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 4, 658, 660, 5508.

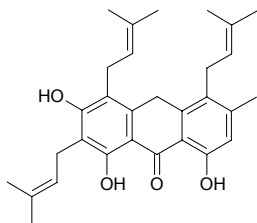


9240 Harunganol B

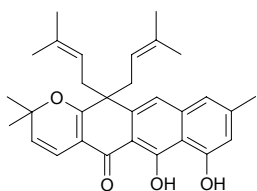
1,3,8-Trihydroxy-4,5,7-tris-(3,3-dimethylallyl)-6-methyl-anthrone $C_{30}H_{36}O_4$ (460.62). Yellow crystals (hexane-ethyl acetate), mp 200°C. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (64.8 \pm 5.5) \mu\text{mol/L}$; control 3-t-Butyl-4-hydroxyanisole, $IC_{50} = (44.2 \pm 1.2) \mu\text{mol/L}$). **Source:** MA DAO HA NI MU *Harungana madagascariensis* (stem cortex). **Ref:** 5286.

**9241 Harungin anthrone**

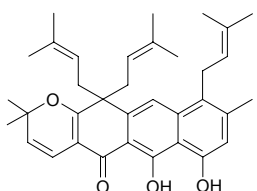
1,3,8-Trihydroxy-2,4,5-tris-(3,3-dimethylallyl)-6-methylanthrone $C_{30}H_{36}O_4$ (460.62). Brown crystals (hexane), mp 170.6°C. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (92.1 \pm 4.5) \mu\text{mol/L}$; control 3-t-Butyl-4-hydroxyanisole, $IC_{50} = (44.2 \pm 1.2) \mu\text{mol/L}$). **Source:** MA DAO HA NI MU *Harungana madagascariensis* (stem cortex). **Ref:** 5286.

**9242 Harunmadagascarin A**

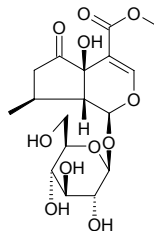
8,9-Dihydroxy-4,4-bis-(3,3-dimethylallyl)-6-methyl-2,3-(2,2-dimethylpyran o)anthrone $C_{30}H_{34}O_4$ (458.60). Orange crystals (hexane), mp 149°C. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (61.0 \pm 3.2) \mu\text{mol/L}$; control 3-t-Butyl-4-hydroxyanisole, $IC_{50} = (44.2 \pm 1.2) \mu\text{mol/L}$). **Source:** MA DAO HA NI MU *Harungana madagascariensis* (stem cortex). **Ref:** 5286.

**9243 Harunmadagascarin B**

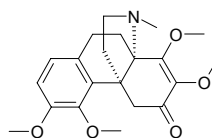
8,9-Dihydroxy-4,4,5-tris-(3,3-dimethylallyl)-6-methyl-2,3-(2,2-dimethylpyran ano)anthrone $C_{35}H_{42}O_4$ (526.72). Orange crystals (MeOH), mp 122.5°C. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (155.4 \pm 2.5) \mu\text{mol/L}$; control 3-t-Butyl-4-hydroxyanisole, $IC_{50} = (44.2 \pm 1.2) \mu\text{mol/L}$). **Source:** MA DAO HA NI MU *Harungana madagascariensis* (stem cortex). **Ref:** 5286.

**9244 Hastatoside**

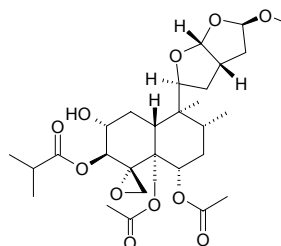
$C_{17}H_{24}O_{11}$ (404.37). **Source:** JI YE MA BIAN CAO *Verbena hastata*, MA BIAN CAO *Verbena officinalis*. **Ref:** 660.

**9245 Hasubanonine**

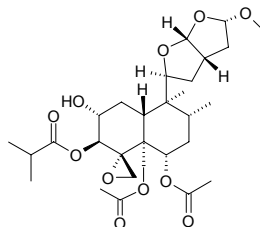
O-Methylaknadinine [1805-85-2] $C_{21}H_{27}NO_5$ (373.45). mp 116–117°C, $[\alpha]_D^{27} = -214^\circ$ ($c = 2.0$, MeOH). **Source:** QIAN JIN TENG *Stephania japonica*, AO DA LI YA QIAN JIN TENG *Stephania japonica* var. *australis*, YA LI QIAN JIN TENG *Stephania elegans*. **Ref:** 6, 1521.

**9246 Hativene A**

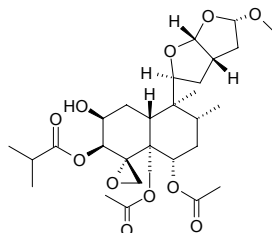
$C_{29}H_{44}O_{11}$ (568.67). Colorless oil, $[\alpha]_D^{20} = -12.1^\circ$ ($c = 0.3$, $CHCl_3$). **Source:** *Ajuga pseudoiva* (leaf). **Ref:** 2412.

**9247 Hativene B**

$C_{29}H_{44}O_{11}$ (568.67). Colorless oil, $[\alpha]_D^{20} = -2.8^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** *Ajuga pseudoiva* (leaf). **Ref:** 2412.

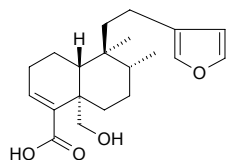
**9248 Hativene C**

$C_{29}H_{44}O_{11}$ (568.67). Colorless oil. **Source:** *Ajuga pseudoiva* (leaf). **Ref:** 2412.

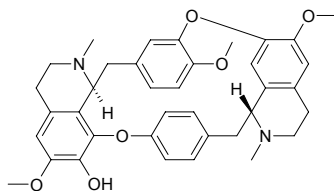


9249 Hautriwaic acid

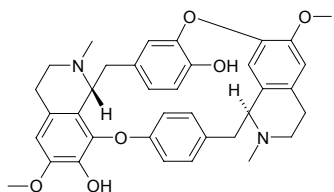
[18411-75-1] $C_{20}H_{28}O_4$ (332.44). mp 183~184°C, $[\alpha]_D = -105^\circ$. Source: CHE SANG ZI YE *Dodonaea viscosa*. Ref: 6, 1521.

**9250 Hayatidine**

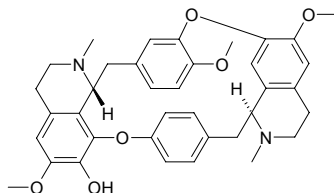
[16543-77-4] $C_{37}H_{40}N_2O_6$ (608.74). mp 179~180°C, $[\alpha]_D = -109^\circ$ (pyridine). Source: XI SHENG TENG *Cissampelos pareira*. Ref: 6, 1521.

**9251 Hayatine**

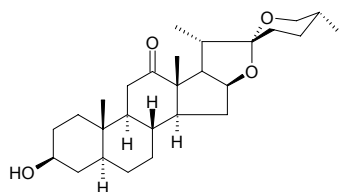
$C_{36}H_{38}N_2O_6$ (594.71). mp 281°C (dec), (\pm) 303°C (dec). Source: XI SHENG TENG *Cissampelos pareira*. Ref: 4.

**9252 Hayatinine**

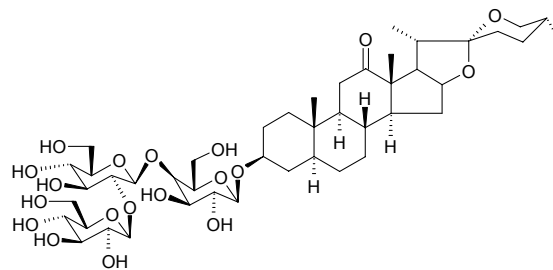
$C_{37}H_{40}N_2O_6$ (608.74). mp 231~232°C. Source: XI SHENG TENG *Cissampelos pareira*. Ref: 6.

**9253 Hecogenin**

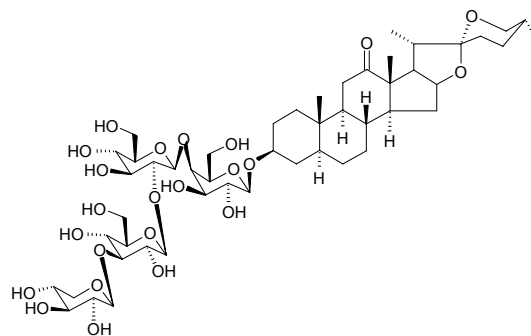
12-Oxotigogenin; 3 β -Hydroxy-5 α ,25D-spirostan-12-one [467-55-0] $C_{27}H_{42}O_4$ (430.63). mp 245°C, mp 253°C, mp 265°C, mp 268°C, $[\alpha]_D = -10^\circ$ (dioxane). Source: DONG YI HAO JIAN MA *Agave east-one*, DUAN YE LONG SHE LAN *Agave angustifolia*, FAN MA *Agave americana*, JIAN MA *Agave sisalana*, WEN ZHU *Asparagus setaceus* [Syn. *Asparagus plumosus*], WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*, YIN BIAN LONG SHE LAN *Agave angustifolia* var. *marginata*. Ref: 6, 10, 658, 1521.

**9254 Hecogenin 3-O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

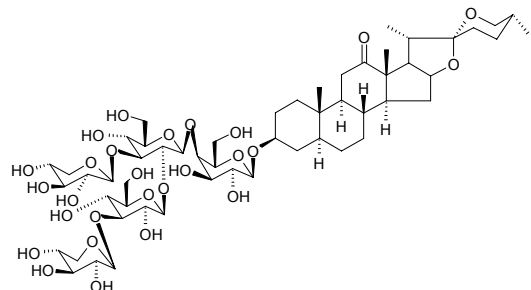
$C_{45}H_{72}O_{19}$ (917.06). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 8.6\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.75\mu\text{g/mL}$). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0048%fw). Ref: 3002.

**9255 Hecogenin 3-O- β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

$C_{50}H_{80}O_{23}$ (1049.18). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 8.2\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.75\mu\text{g/mL}$). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.041%fw). Ref: 3002.

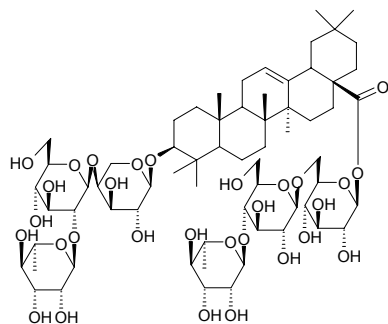
**9256 Hecogenin 3-O- β -D-xylopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

$C_{53}H_{88}O_{27}$ (1181.3). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 4\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.75\mu\text{g/mL}$). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0035%fw). Ref: 3002.

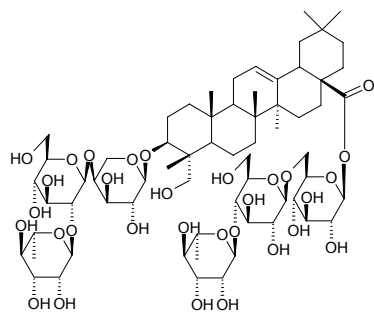


9257 Hederacolchiside E

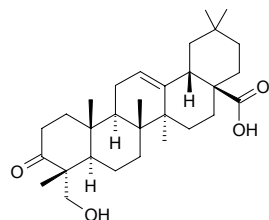
$C_{65}H_{106}O_{30}$ (1367.55). **Pharm:** Antioxidant (75 μ g/mL, total antioxidant activity (lipid peroxidation of linoleic acid emulsion) = 88%, control α -Tocopherol, total antioxidant activity = 67%; reducing power = 0.508, α -Tocopherol, reducing power = 1.929; DPPH scavenging, IC_{50} = 73.5 μ g/mL, α -Tocopherol, IC_{50} = 48.1 μ g/mL; superoxide radical scavenging, IC_{50} = 46.3 μ g/mL, α -Tocopherol, IC_{50} = 50.0 μ g/mL; iron chelating, IC_{50} = 70.8 μ g/mL, α -Tocopherol, IC_{50} = 50.0 μ g/mL; H_2O_2 scavenging, IC_{50} = 41.2 μ g/mL, α -Tocopherol, IC_{50} = 40.3 μ g/mL). **Source:** QIU SHUI XIAN CHANG CHUN TENG *Hedera colchica*. **Ref:** 4993.

**9258 Hederacolchiside F**

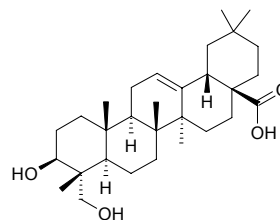
$C_{65}H_{106}O_{31}$ (1383.55). **Pharm:** Antioxidant (75 μ g/mL, total antioxidant activity (lipid peroxidation of linoleic acid emulsion) = 75%, control α -Tocopherol, total antioxidant activity = 67%; reducing power = 0.282, α -Tocopherol, reducing power = 1.929; DPPH scavenging, IC_{50} = 96.2 μ g/mL, α -Tocopherol, IC_{50} = 48.1 μ g/mL; superoxide radical scavenging, IC_{50} = 45.8 μ g/mL, α -Tocopherol, IC_{50} = 50.0 μ g/mL; iron chelating, IC_{50} = 60.5 μ g/mL, α -Tocopherol, IC_{50} = 50.0 μ g/mL; H_2O_2 scavenging, IC_{50} = 67.0 μ g/mL, α -Tocopherol, IC_{50} = 40.3 μ g/mL)^[4993]. **Source:** QIU SHUI XIAN CHANG CHUN TENG *Hedera colchica*. **Ref:** 4993.

**9259 Hederagenic acid**

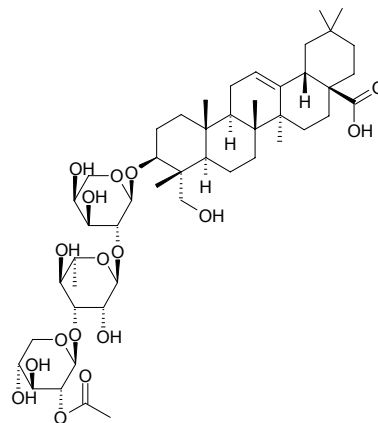
$C_{30}H_{46}O_4$ (470.70). **Source:** HONG JIA MI *Viburnum erubescens*, MA TI YE *Caltha palustris*. **Ref:** 660, 1521.

**9260 Hederagenin**

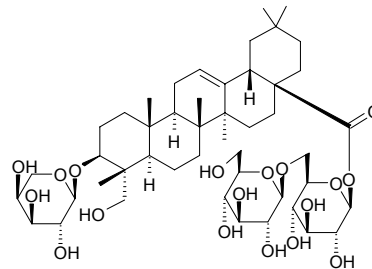
Mukurosigenin; Caulosapogenin; Hederidin; Kalosapogenin; Melanthigenin; Astrantiagenin E [465-99-6] $C_{30}H_{48}O_4$ (472.71). White powder, mp 332–334°C. **Source:** BAI TOU WENG *Pulsatilla chinensis*, CHUAN XU DUAN *Dipsacus asperoides*, GUAN MU TONG *Aristolochia manshuriensis*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, JIN YIN HUA *Lonicera japonica*, LU CAO *Rhaponticum carthamoides*, MU TONG *Akebia quinata*, WEI LING XIAN *Clematis chinensis*. **Ref:** 2, 6, 638, 660, 698.

**9261 Hederagenin 3-O-(2-O-acetyl- β -D-xylopyranosyl)-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside**

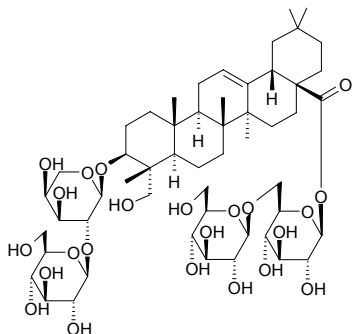
$C_{48}H_{76}O_{17}$ (925.13). White amorphous powder, $[\alpha]_D^{22} = +5.9^\circ$ ($c = 3.7$, MeOH). **Source:** AO TOU WU HUAN ZI *Sapindus emarginatus* (pericarp). **Ref:** 4123.

**9262 Hederagenin 3-O- α -L-arabinopyranosyl-28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

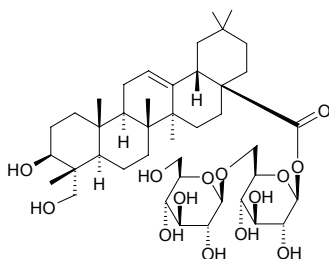
$C_{47}H_{76}O_{18}$ (929.12). **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, REN DONG TENG *Lonicera japonica*. **Ref:** 660.



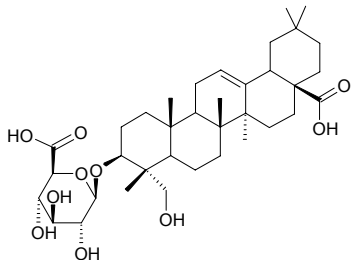
9263 Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
 $C_{53}H_{86}O_{23}$ (1091.26). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.



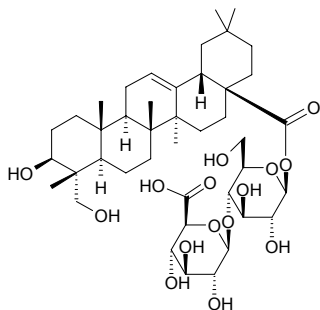
9264 Hederagenin-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
 $C_{42}H_{68}O_{14}$ (797.00). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



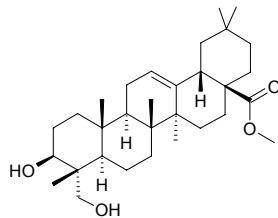
9265 Hederagenin-3-*O*- β -glucuronopyranoside
 $C_{36}H_{56}O_{10}$ (648.84). White amorphous powder (MeOH), mp 224–227°C, $[\alpha]_D^{20} = +22.6^\circ$ ($c = 1.00$, MeOH). Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (seed). Ref: 4904.



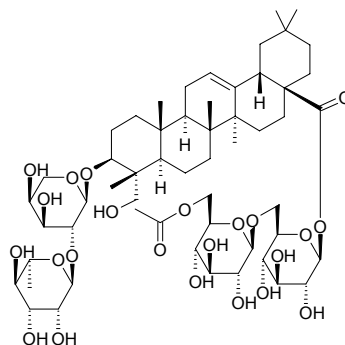
9266 Hederagenin-28-*O*- β -*D*-glucuronopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranoside
 $C_{42}H_{66}O_{15}$ (810.99). White powder, mp 204–206°C (dec). Source: TOU XU CONG MU *Aralia dasyphylla*. Ref: 876.



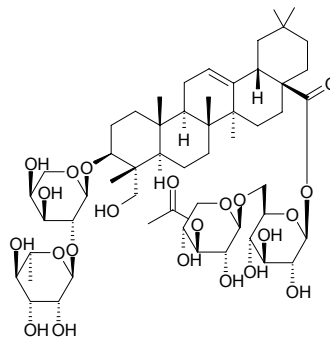
9267 Hederagenin methyl ester
 $C_{31}H_{50}O_4$ (486.74). Source: XIANG SI ZI *Abrus precatorius*. Ref: 660.



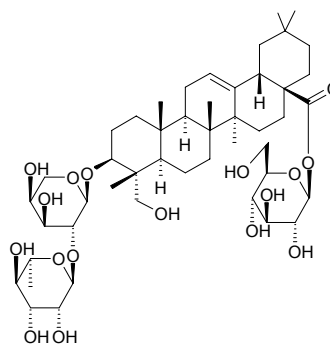
9268 Hederagenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*-6-acetyl- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
 $C_{55}H_{88}O_{23}$ (1117.30). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.



9269 Hederagenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*-3-acetyl- β -*D*-xylopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
 $C_{54}H_{86}O_{22}$ (1087.27). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.

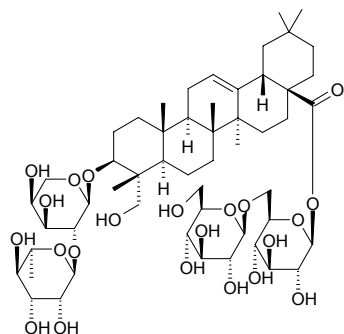


9270 Hederagenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranoside
 $C_{47}H_{76}O_{17}$ (913.12). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.



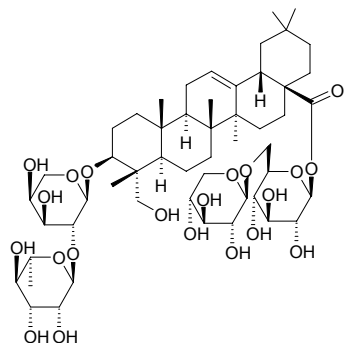
9271 deragenin-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

C₅₃H₈₆O₂₂ (1075.26). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.



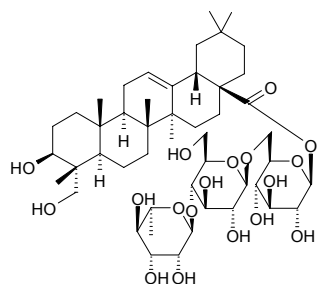
9272 Hederagenin-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-28-O- β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

C₅₂H₈₄O₂₁ (1045.24). Source: LIAO DONG CONG MU YE *Aralia elata*, REN DONG TENG *Lonicera japonica*. Ref: 660, 4471.



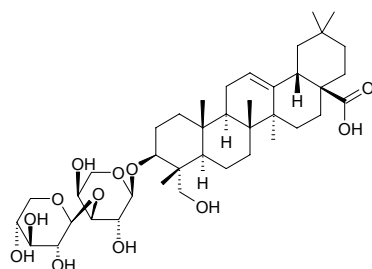
9273 Hederagenin 28-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

C₄₈H₇₈O₁₈ (943.15). White powder, mp 214–216 °C [α]_D²⁰ = -3.0° (c = 0.5, MeOH). Source: DONG BEI CI REN SHEN *Oplopanax elatus*. Ref: 467.



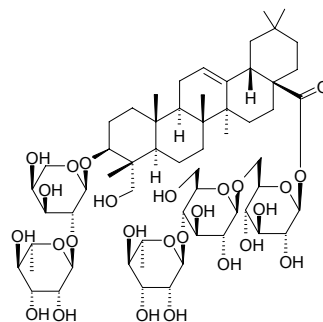
9274 Hederagenin-3-O- β -D-xylopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside

C₄₀H₆₄O₁₂ (736.95). Source: YU ZHI ZI *Akebia quinata*. Ref: 660.



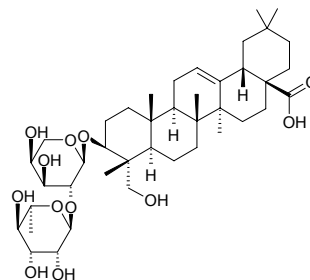
9275 Hederasaponin C

Pericarsaponin Pk C₅₉H₉₆O₂₆ (1221.41). Amorphous powder, [α]_D²⁰ = +16.2° (c = 0.10, MeOH). Pharm: Antioxidant (75 μ g/mL, total antioxidant activity (lipid peroxidation of linoleic acid emulsion) = 86%, control α -Tocopherol, total antioxidant activity = 67%; reducing power = 0.696, α -Tocopherol, reducing power = 1.929; DPPH scavenging, IC₅₀ = 82.4 μ g/mL, α -Tocopherol, IC₅₀ = 48.1 μ g/mL; superoxide radical scavenging, IC₅₀ = 45.8 μ g/mL, α -Tocopherol, IC₅₀ = 50.0 μ g/mL; iron chelating, IC₅₀ = 52.9 μ g/mL, α -Tocopherol, IC₅₀ = 50.0 μ g/mL; H₂O₂ scavenging, IC₅₀ = 59.5 μ g/mL, α -Tocopherol, IC₅₀ = 40.3 μ g/mL)^[4993]. Source: DUO YE JI DOU *Oxytropis myriophylla* (whole herb), SAN YE MU TONG *Akebia trifoliata* (stem), XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts), YANG CHANG CHUN TENG *Hedera helix*. Ref: 3530, 4222, 4545, 4993.



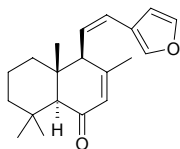
9276 α -Hederin

Kalopanaxsaponin A; Kalopanax septemlobus asponin A; Prosapogenin CP₃₆; Hederagenin-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside C₄₁H₆₆O₁₂ (750.98). mp 228–230°C. Pharm: Anti-inflammatory (male ICR mus, ori, dose = 50mg/kg)^[4212]; anti-inflammatory (modulator of cytokine network: prevents formation of TNF- α in RAW264.7 macrophages stimulated with LPS, IC₅₀ = 5 μ mol/L)^[4416]; antioxidant (75 μ g/mL, total antioxidant activity (lipid peroxidation of linoleic acid emulsion) = 94%, control α -Tocopherol, total antioxidant activity = 67%; reducing power = 1.412, α -Tocopherol, reducing power = 1.929; DPPH scavenging, IC₅₀ = 69.4 μ g/mL, α -Tocopherol, IC₅₀ = 48.1 μ g/mL; superoxide radical scavenging, IC₅₀ = 50.7 μ g/mL, α -Tocopherol, IC₅₀ = 50.0 μ g/mL; iron chelating, IC₅₀ = 51.4 μ g/mL, α -Tocopherol, IC₅₀ = 50.0 μ g/mL; H₂O₂ scavenging, IC₅₀ = 45.2 μ g/mL, α -Tocopherol, IC₅₀ = 40.3 μ g/mL)^[4993]. Source: CHANG CHUN TENG *Hedera nepalensis* var. *sinensis*, ZHUO SE CI QIU *Kalopanax pictum*, CI QIU SHU PI *Kalopanax septemlobus*, HONG MAO WU JIA PI *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], HUANG HE MAO REN DONG *Lonicera fulvotomentosa*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, MA TI YE *Caltha palustris*, REN DONG TENG *Lonicera japonica*, WEI LING XIAN *Clematis chinensis*, XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts), YANG CHANG CHUN TENG *Hedera helix*, YU ZHI ZI *Akebia quinata*. Ref: 6, 660, 3530, 4212, 4416, 4993.

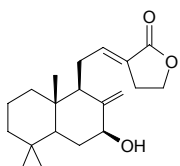


9277 Hedychenone

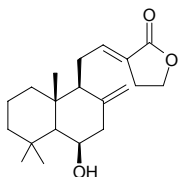
[56324-54-0] C₂₀H₂₆O₂ (298.43). Crystals (hexane), mp 135~136°C, [α]_D = +142° (CHCl₃). Source: DIAN JIANG HUA *Hedychium yunnanense*, TU LIANG JIANG *Hedychium spicatum*, TU QIANG HUO *Hedychium coronarium* (rhizome), YUAN BAN JIANG HUA *Hedychium forrestii*. Ref: 6, 322, 660, 1521, 4221.

**9278 Hedychilactone A**

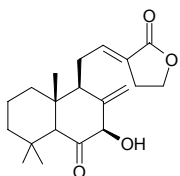
C₂₀H₃₀O₃ (318.46). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, 100 μ mol/L, InRt = (39.1 \pm 2.7)%, $p < 0.01$)^[4221]. Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**9279 Hedychilactone B**

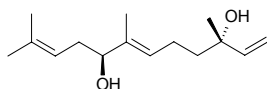
C₂₀H₃₀O₃ (318.46). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**9280 Hedychilactone C**

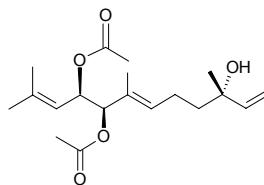
C₂₀H₂₈O₄ (332.44). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**9281 Hedychiol A**

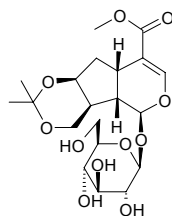
C₁₅H₂₆O₂ (238.37). Colorless oil, [α]_D²⁶ = -2.4° ($c = 0.800$, CHCl₃). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**9282 Hedychiol B 8,9-diacetate**

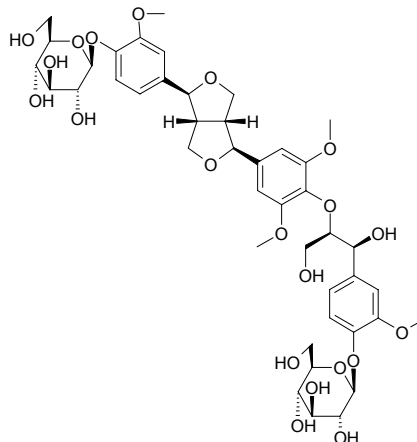
C₁₉H₃₀O₅ (338.45). Colorless oil, [α]_D²¹ = -18.8° ($c = 0.300$, CHCl₃). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, 100 μ mol/L, InRt = (11.4 \pm 1.2)%, $p < 0.01$)^[4221]. Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**9283 Hedyoside**

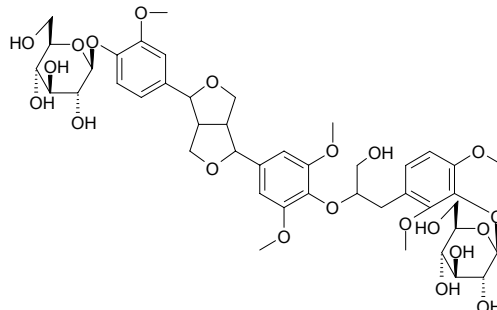
[209115-90-2] C₂₀H₃₀O₁₁ (446.46). White powder, [α]_D = -26.3° ($c = 0.049$, methanol). Source: JIN MAO ER CAO *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*]. Ref: 40.

**9284 Hedytol C 4,4''-di-O- β -D-glucoopyranoside**

[107668-75-7] C₄₃H₅₆O₂₁ (908.91). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2, 184.

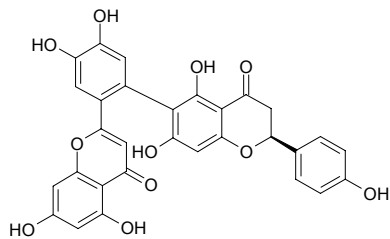
**9285 Hedyalignan A**

C₄₄H₅₈O₂₁ (922.94). White powder, mp 160~164°C, [α]_D²⁵ = +4.0° ($c = 0.22$, MeOH). Source: DUO XU YAN HUANG QI *Hedysarum polybotrys*. Ref: 2470.

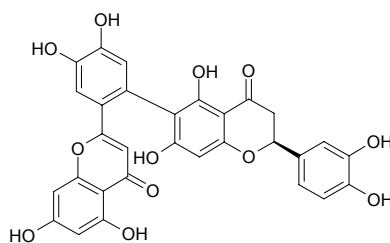


9286 Hegoflavone A

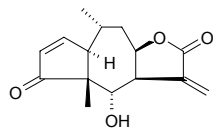
2,3-Dihydro-3''-hydroxy-6'''-biapigenin C₃₀H₂₀O₁₁ (556.49). Source: SUO LUO *Alsophila spinulosa*. Ref: 660.

**9287 Hegoflavone B**

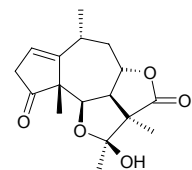
2,3-Dihydro-6,6'''-biluteolin C₃₀H₂₀O₁₂ (572.49). Source: SUO LUO *Alsophila spinulosa*. Ref: 660.

**9288 Helenalin**

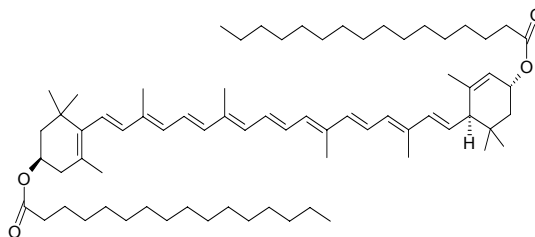
[6754-13-8] C₁₅H₁₈O₄ (262.31). Crystals (C₂H₅OH or C₆H₆), mp 225–228°C, [α]_D²⁵ = –102.8° (CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 100μg/mg; *Bacillus subtilis*, MIC = 100μg/mg); antineoplastic (mus, P₃₈₈, *in vivo*); anti-inflammatory (rat swollen foot model caused by carrageenan, 2.5mg/kg, InRt = 72%, rat experimental arthritis, 2.5mg/kg, InRt = 73%); anthelmintic; cytotoxic (HeLa *in vitro*, ED₅₀ = 0.03μg/mL, normal hmn diploid fibrocyte WI-38 *in vitro*, ED₅₀ = 0.03μg/mL, hmn throat epidermic carcinoma cells H-Ep-2, ED₅₀ = 0.08μg/mL, W-18Va-2 cells, ED₅₀ = 0.07μg/mL); molluscicide; toxin (hmn, animals, fish and insects); anti-inflammatory (NF-κB pathway)^[4415]. Source: DUI XIN JU *Helenium autumnale*, FANG XIANG DUI XIN JU *Helenium aromaticum*, SHAN DI DUI XIN JU *Helenium autumnale* var. *montanum*, XI YE DUI XIN JU *Helenium tenuifolium*, XIAO TOU DUI XIN JU *Helenium microcephalum*. Ref: 4, 658, 1521, 4415.

**9289 Heleniamarin**

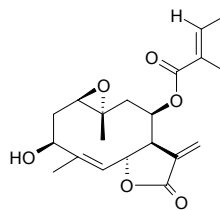
[66607-74-7] C₁₇H₂₂O₅ (306.36). Crystals (Et₂O), mp 151–153°C, [α]_D²¹ = +58.5° (c = 0.25, CHCl₃). Source: KU WEI DUI XIN JU *Helenium amarum*. Ref: 4, 1521.

**9290 Helenien**

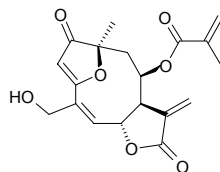
Xantofyl palmitate; Adaptinol; Aptinol [547-17-1] C₇₂H₁₁₆O₄ (1045.72). Red crystals (C₂H₅OH), mp 92°C. Pharm: Yellow pigment. Source: WAN SHOU JU *Tagetes erecta*, DUI XIN JU *Helenium autumnale*, KONG QUE CAO *Tagetes patula*, DI TANG HUA *Kerria japonica*. Ref: 6, 658, 1521.

**9291 Heliangin**

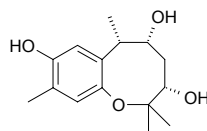
[13323-48-3] C₂₀H₂₆O₆ (362.43). Crystals (MeOH), mp 227–229°C, [α]_D²³ = –110° (c = 0.5, CHCl₃). Pharm: Plant growth regulator. Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole plant: yield = 0.0012%dw)^[4762], JU YU *Helianthus tuberosus*, XIANG RI KUI YE *Helianthus annuus*, XIANG RI KUI ZI *Helianthus annuus*. Ref: 6, 658, 1521, 4762.

**9292 Heliangolide 17,18-dehydro-viguiepinin**

C₁₉H₂₀O₇ (360.37). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 5090.

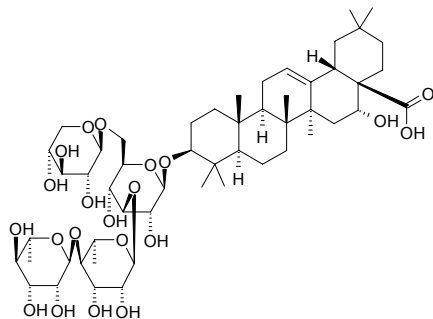
**9293 Heliannuol L**

C₁₅H₂₂O₄ (266.34). Colorless oil. Source: XIANG RI KUI YE *Helianthus annuus*. Ref: 1927.

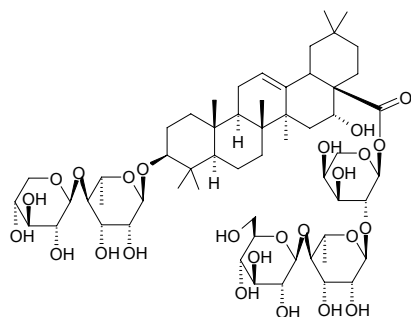


9294 Helianthoside A

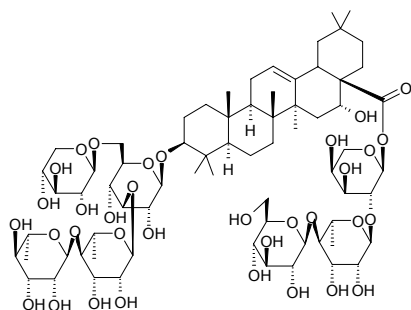
[139164-70-8] $C_{53}H_{86}O_{21}$ (1059.26). **Pharm:** Hemolytic. **Source:** XIANG RI KUI ZI *Helianthus annuus*. **Ref:** 658.

**9295 Helianthoside B**

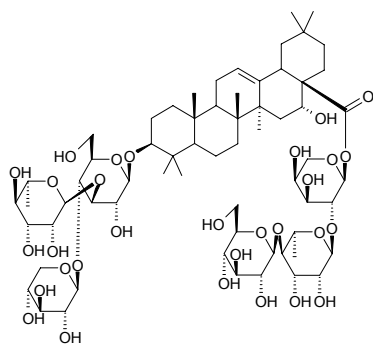
[29108-67-6] $C_{58}H_{94}O_{25}$ (1191.38). **Source:** XIANG RI KUI HUA *Helianthus annuus*. **Ref:** 6.

**9296 Helianthoside C**

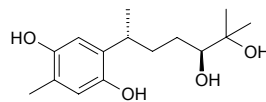
$C_{70}H_{114}O_{34}$ (1499.67). mp 215~217°C. **Source:** XIANG RI KUI HUA *Helianthus annuus*. **Ref:** 6.

**9297 Helianthussaponin 2**

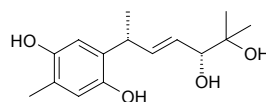
$C_{64}H_{104}O_{30}$ (1353.52). **Source:** MAI XIAN WENG *Agrostemma githago* (root). **Ref:** 5464.

**9298 Helibisabonol A**

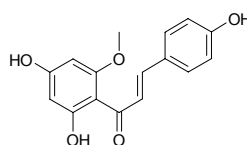
$C_{15}H_{22}O_4$ (268.36). Colorless oil, $[\alpha]_D^{25} = -44.9^\circ$ ($c = 0.1$, CH_3COCH_3). **Source:** XIANG RI KUI YE *Helianthus annuus*. **Ref:** 1927.

**9299 Helibisabonol B**

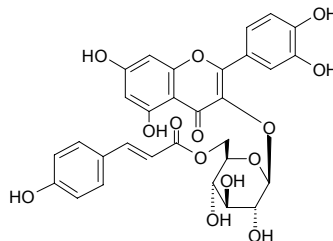
$C_{15}H_{22}O_4$ (266.34). Colorless oil, $[\alpha]_D^{25} = -7.2^\circ$ ($c = 0.1$, CH_3COCH_3). **Source:** XIANG RI KUI YE *Helianthus annuus*. **Ref:** 1927.

**9300 Helichrysetin**

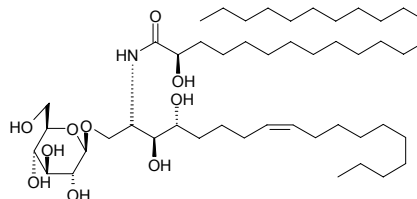
$C_{16}H_{14}O_5$ (286.29). **Pharm:** Cytotoxic (Colon26-L5, $ED_{50} = 64.7 \mu\text{mol/L}$; HT1080, $ED_{50} = 40.1 \mu\text{mol/L}$). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00079%). **Ref:** 3042.

**9301 Helichryoside**

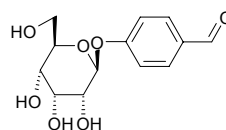
[56343-26-1] $C_{30}H_{26}O_{14}$ (610.53). Bright yellow lamellar crystals (with 1.5 H_2O), mp 181~184°C, $[\alpha]_D^{21} = -44^\circ$ ($c = 1.0$, methanol). **Pharm:** Antihypertensive (rat, inhibits sympathetic nervous system and relaxes blood vessels). **Source:** ZANG HONG HUA *Crocus sativus*. **Ref:** 1029, 1173.

**9302 Helicia cerebroside A**

1- β -D-Glucopyranosyl-(2S,3S,4R,8Z)-2-[(2'R)-2'-hydroxylignocenoyl-amino]-8-octadecene-1,3,4-triol $C_{48}H_{93}NO_{10}$ (844.28). White crystalline powder. **Source:** SHEN LU SHAN LONG YAN *Helicia nilagirica* (leaf). **Ref:** 4843.

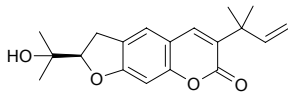
**9303 Helicide**

$C_{13}H_{16}O_7$ (284.27). **Source:** SHEN LU SHAN LONG YAN *Helicia nilagirica*. **Ref:** 660.

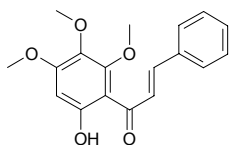


9304 Heliettin

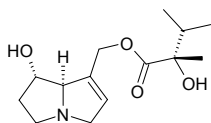
Chalepin; Rutamarin alcohol [33054-89-6] $C_{19}H_{22}O_4$ (314.38). mp 165°C. Pharm: Cytotoxic (*in vitro*); phyto-growth inhibitor (100 μ g/mL, *Amaranthus hypochondriacus*, InRt = (45.1 \pm 1.3)%), $P < 0.05$; *E. crusgalli*, InRt = (88.5 \pm 1.8)%^[5253]. Source: CHOU CAO *Ruta graveolens*, SUI ZHUANG YUN XIANG *Ruta chalepensis*, *Stauranthus perforatus* (root). Ref: 6, 658, 5253.

**9305 Helilandin B**

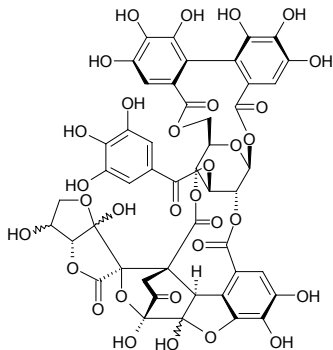
$C_{18}H_{18}O_5$ (314.34). Source: *Didymocarpus pedicellata*, *Helichrysum sutherlandii*. Ref: 660.

**9306 Heliohoustine**

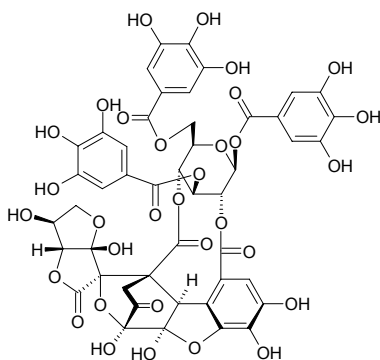
*O*⁹-(2*S*-2 α -Hydroxy-2,3-dimethyl-butanoyl) $C_{14}H_{23}NO_4$ (269.34). Source: XIONG ER CAO *Ageratum houstonianum* (aerial parts). Ref: 5173.

**9307 Helioscopin A**

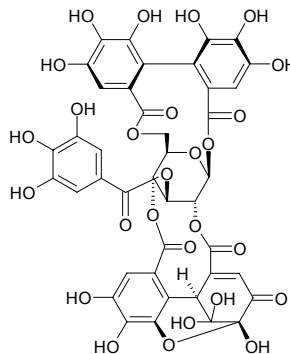
$C_{47}H_{34}O_{32}$ (1110.78). Source: ZE QI *Euphorbia helioscopia*. Ref: 660.

**9308 Helioscopin B**

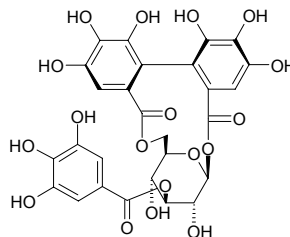
$C_{47}H_{36}O_{32}$ (1112.79). Source: ZE QI *Euphorbia helioscopia*. Ref: 660.

**9309 Helioscopin A**

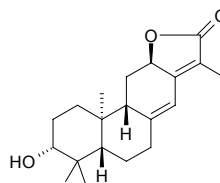
$C_{41}H_{28}O_{27}$ (952.66). Source: ZE QI *Euphorbia helioscopia*. Ref: 660.

**9310 Helioscopin B**

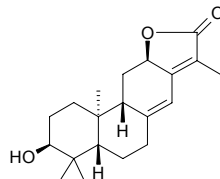
$C_{27}H_{22}O_{18}$ (634.47). Source: ZE QI *Euphorbia helioscopia*. Ref: 660.

**9311 Helioscopinolide A**

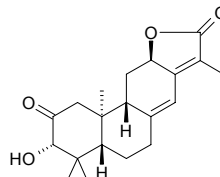
$C_{20}H_{28}O_3$ (316.44). Colorless needles. Source: DA GUO DA JI *Euphorbia wallichii* (root), ZE QI *Euphorbia helioscopia*. Ref: 660, 4585.

**9312 Helioscopinolide B**

$C_{20}H_{28}O_3$ (316.44). Source: ZE QI *Euphorbia helioscopia*. Ref: 660.

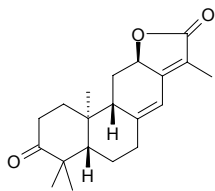
**9313 Helioscopinolide C**

$C_{20}H_{26}O_4$ (330.43). Colorless needles. Source: DA GUO DA JI *Euphorbia wallichii* (root), ZE QI *Euphorbia helioscopia*. Ref: 660, 4585.

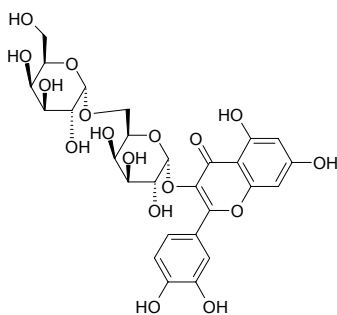


9314 Helioscopinolide E

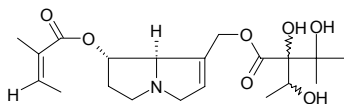
$C_{20}H_{26}O_3$ (314.43). Colorless needles. Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4585.

**9315 Heliosin**

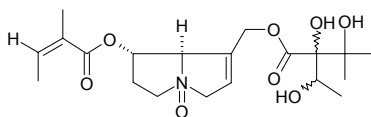
$C_{27}H_{30}O_{17}$ (626.53). Hemi-hydrate, yellow acicular crystals, mp 187°C, $[\alpha]_D = -104.4^\circ$ ($c = 0.498$, 95% ethanol). Pharm: Antitussive (used in treatment of chronic bronchitis, in 286 cases, 5 days constituting a single therapeutic course, excellent effective rate = 50%). Source: ZE QI *Euphorbia helioscopia*. Ref: 661.

**9316 Heliosupine**

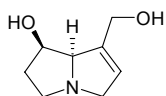
[32728-78-2] $C_{20}H_{31}NO_7$ (397.47). mp 148~149°C. Pharm: Hepatotoxin. Source: ZHUO SE LIU LI CAO *Cynoglossum pictum*, CU XI MEN FEI CAO *Symphytum asperum*, LAN JI *Echium vulgare*, NAN FANG LIU LI CAO *Cynoglossum australe*, XI MEN FEI CAO *Symphytum officinale*, YANG XIN TIAN JIE CAI *Heliotropium supinum*, YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 6, 658.

**9317 Heliosupine N-oxide**

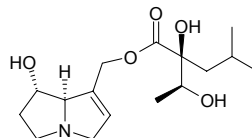
$C_{20}H_{31}NO_8$ (413.47). mp 165°C (dec). Source: YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 6.

**9318 Heliotridine**

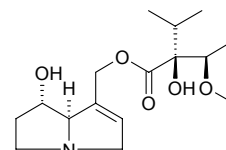
Retronecine† [480-85-3] $C_8H_{13}NO_2$ (155.20). Crystals (Me₂CO), mp 121~122°C, $[\alpha]_D^{26} = +50.2^\circ$ (ethanol). Pharm: Hepatotoxin. Source: JIA DONG FANG QIAN LI GUANG *Senecio pseudoorientalis*, *Crotalaria* sp., *Heliotropium* sp. Ref: 658, 1521.

**9319 Heliotridine 2S-hydroxy-2S-(1S-hydroxyethyl)-4-methyl-pentanoyl ester**

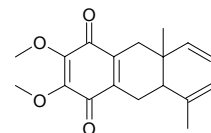
$C_{16}H_{27}NO_5$ (313.40). Yellow-orange oil, $[\alpha]_D^{25} = +14.3^\circ$ ($c = 0.1$, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa* (flower, leaf and root). Ref: 5298.

**9320 Heliotrine**

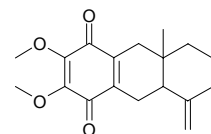
[303-33-3] $C_{16}H_{27}NO_5$ (313.40). Prisms (Me₂CO), mp 125~126°C, mp 128°C, $[\alpha]_D^{20} = +63.8^\circ$ (CHCl₃), $[\alpha]_D = +17.6^\circ$ (ethanol). Pharm: Antineoplastic (adenoma 755, S₁₈₀, subcutaneous Walker sarcoma and Walker sarcoma in murine muscle *in vivo*); cytotoxic (KB *in vitro*, ED₅₀ = 15µg/L); mutagen (Ames, drosophila, rat experiments); teratogen (Ames, drosophila, rat experiments). Source: A GU JI TIAN JIE CAI *Heliotropium arguzioides*, AI SHI TIAN JIE CAI *Heliotropium eichwaldii*, AO ER JIA TIAN JIE CAI *Heliotropium olgae*, DA WEI YAO *Heliotropium indicum*, DUO ZHI TIAN JIE CAI *Heliotropium ramosissimum*, OU ZHOU TIAN JIE CAI *Heliotropium europaeum*, YAN TIAN JIE CAI *Heliotropium curassavicum*, YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 5, 658.

**9321 Heliotropinone A**

7-Isopropenyl-2,3-dimethoxy-6-methyl-6-vinyl-5,6,7,8-tetrahydronaphthalene-1,4-dione $C_{18}H_{22}O_4$ (302.37). Dark yellow oil, $[\alpha]_D = 0^\circ$ ($c = 0.05$, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, MIA = 2µg, control Nystatin, MIA = 1µg; *Candida albicans*, MIA = 4µg, Nystatin, MIA = 1µg)^[5203]; antibacterial (*Bacillus subtilis*, MIA = 0.2µg; control Chloramphenicol, MIA = 0.01µg)^[5203]. Source: LUAN YE TIAN JIE CAI *Heliotropium ovalifolium* (aerial parts). Ref: 5203.

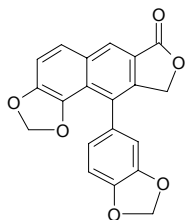
**9322 Heliotropinone B**

2,3-Dimethoxy-8α-methyl-5-methylene-5,6,7,8,8α,9,10,10a-octahydroanthracene-1,4-dione $C_{18}H_{22}O_4$ (302.37). Dark yellow oil, $[\alpha]_D = +4^\circ$ ($c = 0.05$, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, MIA = 2µg, control Nystatin, MIA = 1µg; *Candida albicans*, MIA = 2µg, Nystatin, MIA = 1µg); antibacterial (*Bacillus subtilis*, MIA = 0.2µg; control Chloramphenicol, MIA = 0.01µg). Source: LUAN YE TIAN JIE CAI *Heliotropium ovalifolium* (aerial parts). Ref: 5203.

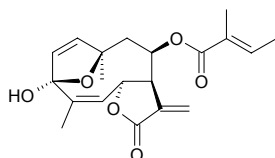


9323 Helioxanthin

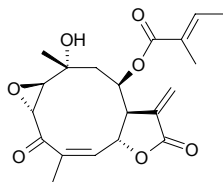
[18920-47-3] $C_{20}H_{12}O_6$ (348.32). mp 240~241°C. **Pharm:** Cytotoxic (A549, $ED_{50} = 11.3\mu\text{mol/L}$, $ED_{50} = 32.4\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01\mu\text{mol/L}$, $ED_{50} = 0.02\mu\text{g/mL}$; MCF7, $ED_{50} = 12.6\mu\text{mol/L}$, $ED_{50} = 36.1\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$; HT29, $ED_{50} = 13.4\mu\text{mol/L}$, $ED_{50} = 38.6\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$)^[5088]. **Source:** DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*], QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000067%dw)^[4783], TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 6, 4783, 5088.

**9324 Helivypolide D**

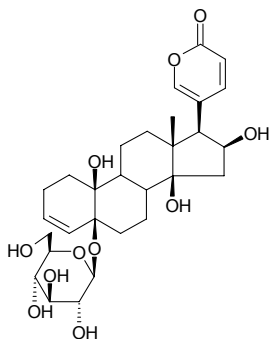
$C_{20}H_{24}O_6$ (360.41). Colorless oil. **Source:** ZAI PEI XIANG RI KUI YE *Helianthus annuus* cv. **Ref:** 2370.

**9325 Helivypolide E**

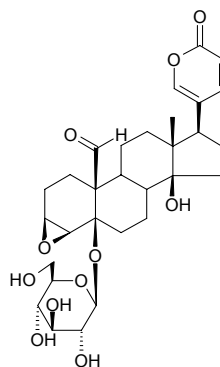
$C_{20}H_{24}O_7$ (376.41). Colorless oil. **Source:** ZAI PEI XIANG RI KUI YE *Helianthus annuus* cv. **Ref:** 2370.

**9326 Hellebortin A**

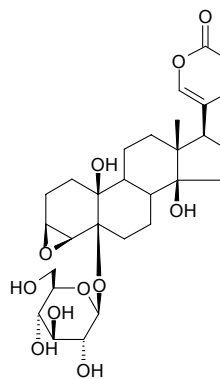
5-[β -D-Glucopyranosyloxy]-10,14,16-trihydroxy-19-nor- $\{5\beta,10\beta,14\beta,16\beta\}$ -bufa-3,20,22-trienolide $C_{29}H_{40}O_{11}$ (564.64). Colorless glassy solid. **Pharm:** Ecdysteroid agonist or antagonist inactive (*Drosophila melanogaster* B₁₁ cell line, 1~1000 $\mu\text{mol/L}$). **Source:** NIU QU TI GEN CAO *Helleborus torquatus* [Syn. *Helleborus serbicus*] (seed). **Ref:** 5142.

**9327 Hellebortin B**

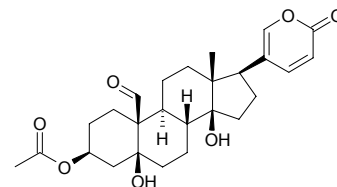
5-[β -D-Glucopyranosyloxy]-3,4-epoxy-14-hydroxy-19-oxo-bufa-20,22-dienolide $C_{30}H_{40}O_{11}$ (576.65). White glassy solid. **Source:** NIU QU TI GEN CAO *Helleborus torquatus* [Syn. *Helleborus serbicus*] (seed). **Ref:** 5142.

**9328 Hellebortin C**

5-[β -D-Glucopyranosyloxy]-3,4-epoxy-10,14-dihydroxy-19-nor-bufa-20,22-dienolide $C_{29}H_{40}O_{11}$ (564.64). Colorless glassy solid. **Source:** NIU QU TI GEN CAO *Helleborus torquatus* [Syn. *Helleborus serbicus*] (seed). **Ref:** 5142.

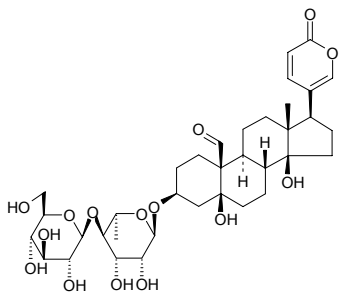
**9329 Hellebrigenin 3-acetate**

$C_{26}H_{34}O_7$ (458.56). **Pharm:** Antineoplastic. **Source:** TI GEN CAO *Helleborus niger*, TIE KUAI ZI *Helleborus thibetanus*, CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 658.

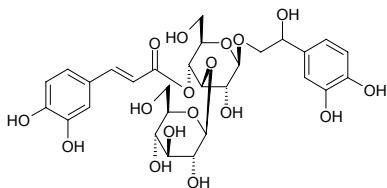


9330 Hellebrin

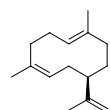
Hellebrigenin glucorhamnoside [13289-18-4] $C_{36}H_{52}O_{15}$ (724.81). mp 283~284°C. **Pharm:** Anticonvulsant (caused by pentylenetetrazol); anti-electroshock; cardiac glycoside; cytotoxic (hmn epidermoid carcinoma KB cells, *in vitro*); LD₅₀ (pgg, perfusion in stomach) = 0.85μmol/kg. **Source:** TI GEN CAO *Helleborus niger*, ZI TI GEN CAO *Helleborus purpurascens*, TIE KUAI ZI *Helleborus thibetanus*, XIANG TIE KUAI ZI *Helleborus odoratus*, MA TI YE *Caltha palustris*. **Ref:** 5, 658, 660.

**9331 Hellicoside**

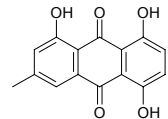
[132278-04-7] $C_{29}H_{36}O_{17}$ (656.59). Amorphous powder, mp 182.6~190.3°C, $[\alpha]_D^{23} = -27^\circ$ ($c = 1.0$, MeOH). **Pharm:** 5-LOX Inhibitor (IC₅₀ = 0.316μmol/L); aldose reductase inhibitor (IC₅₀ = 926μmol/L); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 169μmol/L); cyclo-adenyl mononucleotide phosphodiesterase inhibitor. **Source:** CHE QIAN *Plantago asiatica*. **Ref:** 658, 1096.

**9332 (+)-Helminthogermacrene**

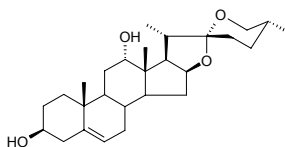
$C_{15}H_{24}$ (204.36). Colorless oil. **Source:** BO BAN HE YE TAI *Scapania undulata* (essential oil). **Ref:** 3752.

**9333 Helminthosporin**

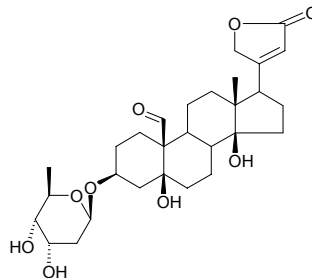
[518-80-9] $C_{15}H_{10}O_5$ (270.24). Red needles (pyriding or Et₂O), mp 228°C. **Source:** LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], WANG JIANG NAN *Cassia occidentalis*. **Ref:** 2, 1521.

**9334 Heloniogenin**

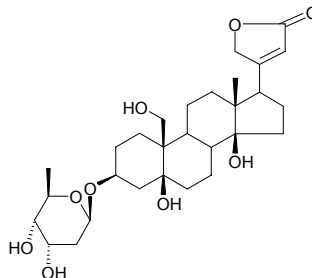
[6869-16-5] $C_{27}H_{42}O_4$ (430.63). Crystals (MeOH), mp 212~213°C, $[\alpha]_D = -91^\circ$ (CHCl₃). **Source:** LEI GONG QI *Clintonia alpina*. **Ref:** 6, 1521.

**9335 Helveticoside**

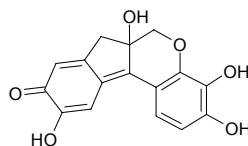
Alleoside A; Erysimin; Erysimotoxin [630-64-8] $C_{29}H_{42}O_9$ (534.65). Crystals +2H₂O (EtOH aq.), mp 168~172°C (dec), $[\alpha]_D^{20} = +43.5^\circ$ (ethanol); mp 153~157°C. **Pharm:** Cardiac glycoside; contracts blood vessels (cat heart, vasa coronaria, *in vitro*, high concentration); diuretic (mus); sedative (cat); LD₅₀ (cat) = 0.09mg/kg. **Source:** BO NIANG HAO *Descurainia sophia*, CHANG SHUO HUANG MA *Corchorus olitorius*, GUI ZHU TANG JIE *Erysimum cheiranthoides*, HUAN YANG SHEN YE TANG JIE *Erysimum crepidifolium*, HUANG BAI TANG JIE *Erysimum ochroleucum*, HUANG MA YE *Corchorus capsularis*, HUANG MA ZI *Corchorus capsularis*, TANG JIE *Erysimum diffusum*, KANG PI DU MAO XUAN HUA *Strophanthus kombe*. **Ref:** 5, 6, 658, 1521.

**9336 Helveticosol**

[18695-02-8] $C_{29}H_{44}O_9$ (536.67). Plates (H₂O), mp 147~152°C. **Source:** GUI ZHU TANG JIE *Erysimum cheiranthoides*, KANG PI DU MAO XUAN HUA *Strophanthus kombe*, *Castilla elastica*. **Ref:** 6, 1521.

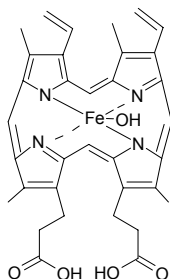
**9337 Hematein**

Hydroxybrazilein $C_{16}H_{12}O_6$ (300.27). mp > 200°C, mp 250°C (dec), insoluble in benzene, chloroform, very slightly soluble in water, slightly soluble in ethanol, ether.^[5507] **Pharm:** Anti-inflammatory (modulator of cytokine network: reduces expression of VCAM-1 in aorta of hypercholesterolemic New Zealand rabbits; reduces TNF- α -induced VCAM-1 expression in HUVECs; diminishes increase in VCAM-1 and MCP-1 levels induced by TNF- α and oxidized LDL in HUVECs, respectively, as well as reducing TNF- α and IL-1 β production in peritoneal macrophages stimulated with LPS plus IFN γ ; reduces cell surface expression of adhesion molecules, resulting in inhibition of THP-1 monocyte adhesion to TNF- α stimulated HUVECs)^[4416]. **Source:** SU MU *Caesalpinia sappan*. **Ref:** 4416, 5507.

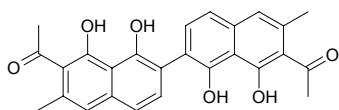


9338 Hematin

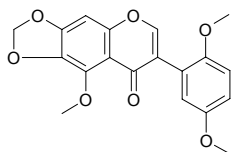
Haematin [15489-90-4] $C_{34}H_{33}FeN_4O_5$ (633.51). mp 200°C (dec). Source: NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 1521.

**9339 Hemerocallin**

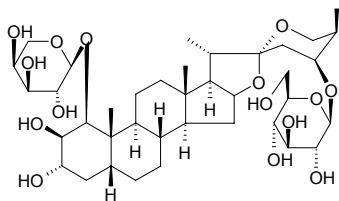
Stypanrol [99305-33-6] $C_{26}H_{22}O_6$ (430.46). Orange needles ($CHCl_3$), mp 256–266°C (dec); mp 266–269°C. Pharm: Schistosomacide (main effective component in Orange Daylily, *Hemerocallis fulva* XUAN CAO GEN, used in treatment of schistosomiasis); toxin (animal, sheep and goat, neurotoxic, cumulative poisoning, palsy and death). Source: SHE XIANG XUAN *Hemerocallis thunbergii*, XIAO XUAN CAO GEN *Hemerocallis minor*, family Liliaceae spp. Ref: 6, 658, 660, 1521.

**9340 Hemerocallone**

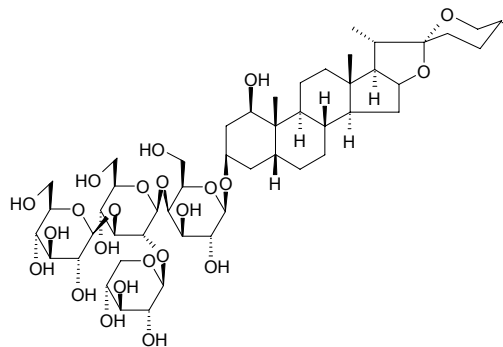
[82869-19-0] $C_{19}H_{16}O_7$ (356.34). Colorless long acicular, mp 177–179°C. Pharm: Diuretic (rat). Source: XIAO XUAN CAO GEN *Hemerocallis minor*. Ref: 658, 1521.

**9341 Hemeroside A**

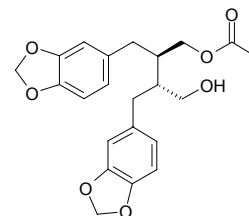
24S-Hydroxy-neotokorogenin 1-*O*- α -L-arabinopyranosyl 24-*O*- β -D-glucopyranoside $C_{38}H_{62}O_{15}$ (758.91). White powder, mp 120–125°C, $[\alpha]_D^{26} = 17.6^\circ$ ($c = 0.9$, MeOH). Source: CHONG BAN XUAN CAO *Hemerocallis fulva* var. *kwanso* (aerial parts). Ref: 3514.

**9342 Hemeroside B**

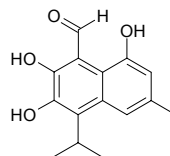
Isorhodeasapogenin 3-*O*- β -D-glucopyranosyl-(1→3)-[β -D-xylopyranosyl-(1→2)]- β -D-glucopyranosyl-(1→4)- β -D-galactopyranoside $C_{50}H_{82}O_{23}$ (1050.20). Colorless needles, mp 287–290°C, $[\alpha]_D^{26} = 56.0^\circ$ ($c = 1.5$, pyridine). Source: CHONG BAN XUAN CAO *Hemerocallis fulva* var. *kwanso* (aerial parts). Ref: 3514.

**9343 Hemiariensin**

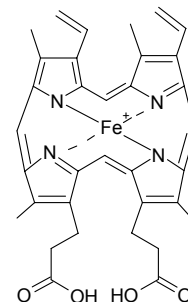
4-Acetoxy-2,3-bis(3,4-methylene-dioxybenzyl)-butan-1-ol $C_{22}H_{24}O_7$ (400.43). Source: BI CHENG QIE *Piper cubeba*. Ref: 660.

**9344 Hemigossypol**

[40817-07-0] $C_{15}H_{16}O_4$ (260.29). Yellow crystals ($CHCl_3$), mp 159–163°C (dec). Pharm: Antifungal. Source: LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], MIAN HUA GEN *Gossypium herbaceum*. Ref: 6, 658.

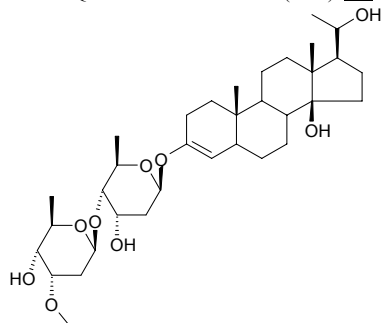
**9345 Hemin**

Haemin; Protoporphyrin iron(III) complex [16009-13-5] $C_{34}H_{32}FeN_4O_4^+$ (616.51). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 6, 1521.

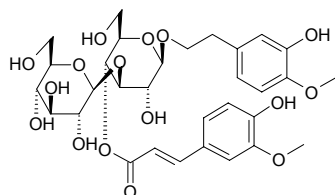


9346 Heminine

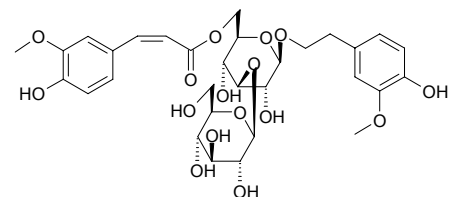
Calogenin 3-*O*- β -D-cymaropyranosyl-(1 \rightarrow 4)-*O*- β -D-digitoxopyranoside
 $C_{34}H_{56}O_9$ (608.82). mp 132°C, $[\alpha]_D = -62.5^\circ$ ($c = 0.11$, MeOH). Source: YIN DU BA QIA *Hemidesmus indicus* (stem). Ref: 5081.

**9347 Hemiphroside A**

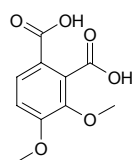
$C_{31}H_{40}O_{16}$ (668.65). Pharm: Antioxidant (hydroxyl radical scavenger, $IC_{50} = 110.5 \mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8 \mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 208.5 \mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2 \mu\text{mol/L}$). Source: XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). Ref: 4289.

**9348 Hemiphroside C**

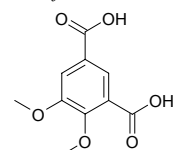
$C_{31}H_{40}O_{16}$ (668.65). Yellowish amorphous powder. Source: BIAN DA XIU QIU *Hemiphragma heterophyllum* (whole herb). Ref: 4816.

**9349 Hemipic acid**

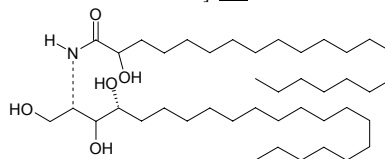
Hemipinic acid $C_{10}H_{10}O_6$ (226.19). Source: YING SU *Papaver somniferum*. Ref: 660.

**9350 m-Hemipic acid**

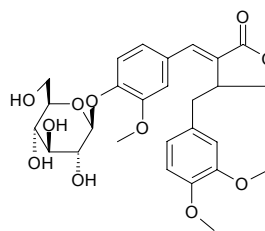
m-Hemipinic acid $C_{10}H_{10}O_6$ (226.19). Source: YING SU *Papaver somniferum*. Ref: 660.

**9351 Hemisceramide**

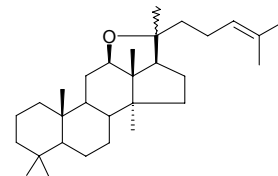
$C_{42}H_{85}NO_5$ (684.15). White powdery crystals (MeOH), mp 129–130°C. Source: NI HU CAI *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*]. Ref: 2231.

**9352 Hemislienoside**

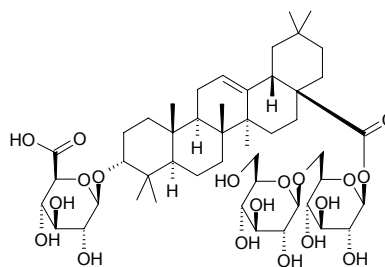
$C_{27}H_{32}O_{11}$ (532.55). Colorless granulous crystals, mp 112–113°C. Source: NI HU CAI *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*]. Ref: 2127.

**9353 Hemistriterpene ether**

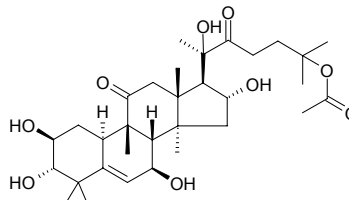
$C_{30}H_{50}O$ (426.73). Colorless granular crystals (MeOH), mp > 300°C, $[\alpha]_D^{20} = +13.6^\circ$ ($c = 0.000151$, MeOH). Source: NI HU CAI *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*]. Ref: 2231.

**9354 Hemsgiganoside B**

$C_{48}H_{76}O_{19}$ (957.13). White powder. Source: JU HUA XUE DAN *Hemsleya gigantea*. Ref: 2491.

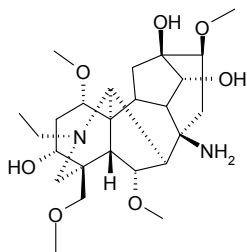
**9355 Hemslecin G**

$C_{32}H_{50}O_9$ (578.75). White powder, mp 132–138°C. Source: JU HUA XUE DAN *Hemsleya gigantea*. Ref: 2491.

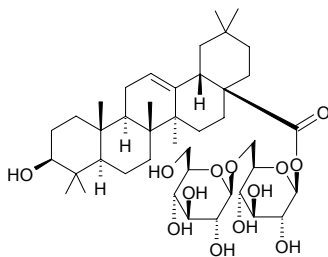


9356 Hemsleyatine

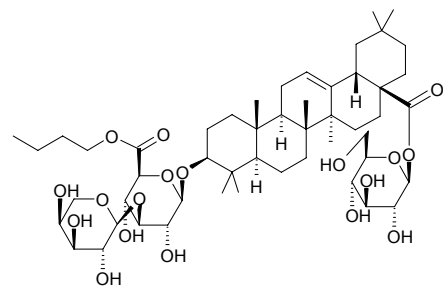
$C_{25}H_{42}N_2O_7$ (482.62). White amorphous powder, mp 89–90°C (chloroform–acetone–diethylamine), $[\alpha]_D = +36.5^\circ$ ($c = 0.55$, $CHCl_3$).
Source: GUA YE WU TOU *Aconitum hemsleyanum* (root). Ref: 4343.

**9357 Hemsloin A**

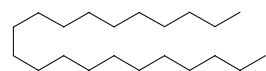
Oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside
 $C_{42}H_{68}O_{13}$ (781.00). White crystals, mp 245–250°C (dec), $[\alpha]_D^{26} = 18.52^\circ$ ($c = 0.19$, MeOH). Source: GU LIN XUE DAN *Hemsleya penxianensis* var. *gulinensis*. Ref: 2484.

**9358 Hemsloin B**

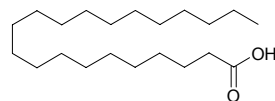
3-*alpha*-*O*-*L*-Arabinopyranosyl-(1 \rightarrow 3)-(6'-butyl ester)- β -*D*-glucopyranosyl-oleanolic acid-28-*O*- β -*D*-glucopyranoside
 $C_{51}H_{82}O_{18}$ (983.21). White powder, mp 198–200°C (dec), $[\alpha]_D^{26} = +16.62^\circ$ ($c = 0.361$, MeOH).
Source: GU LIN XUE DAN *Hemsleya penxianensis* var. *gulinensis*. Ref: 2484.

**9359 Heneicosane**

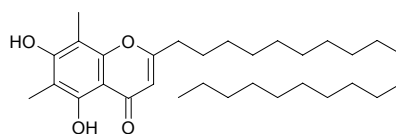
[629-94-7] $C_{21}H_{44}$ (296.58). Wax, mp 40.5°C, bp 356.5°C, bp 215°C/15mmHg, bp 129°C/0.05mmHg. Source: DANG SHEN *Codonopsis pilosula*, ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 1521.

**9360 Heneicosanoic acid**

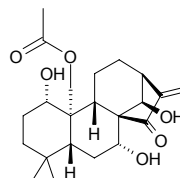
[2363-71-5] $C_{21}H_{42}O_2$ (326.57). Needles (Me₂CO), mp 73–74°C. Source: DANG SHEN *Codonopsis pilosula*, ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 2, 660.

**9361 2-*n*-Heneicosyl-5,7-dihydroxy-6,8-dimethyl chromone**

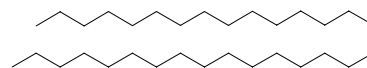
$C_{32}H_{52}O_4$ (500.77). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 660.

**9362 Henryin**

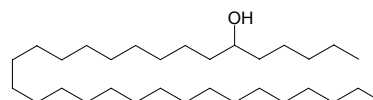
1 α ,7 α ,14 β -Trihydroxy-20-acetoxy-*ent*-kaur-16-en-15-one; Reniformin A
 $C_{22}H_{32}O_6$ (392.50). mp 201–203°C, $[\alpha]_D^{12} = -88^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro*, P₃₈₈, ED₅₀ = 0.58 μ g/mL)^[3012]. Source: WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.00003%dw), E XI XIANG CHA CAI *Isodon henryi*. Ref: 3012, 4067.

**9363 Hentriacontane**

Untriacontane [630-04-6] $C_{31}H_{64}$ (436.86). Wax, mp 68°C, bp 458°C, bp 302°C/15mmHg. Pharm: Fruit protective film. Source: FAN QIE *Lycopersicon esculentum*, ZANG HONG HUA SE SHUI QIN *Oenanthе crocata*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YIN YANG HUO *Epimedium brevicornum*, RI BEN LU TI CAO *Pyrola japonica*, CHE QIAN *Plantago asiatica*. Ref: 2, 658, 660, 1521.

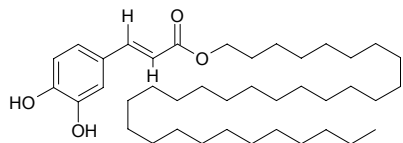
**9364 Hentriacontanol-6**

$C_{31}H_{64}O$ (452.86). Source: PU HUANG *Typha angustata*. Ref: 2.

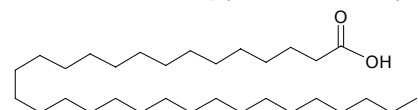


9365 Hentriacontanyl caffeate

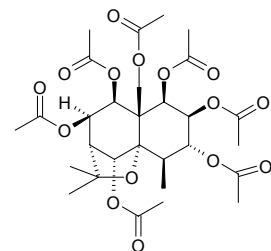
3,4-Dihydroxy-*trans*-cinnamic acid hentriacontanylester C₄₀H₇₀O₄ (615.50).
Pharm: Anti-inflammatory (COX-1 inhibitor, 1000μmol/L, InRt = (52±2)%, positive control Indomethacin, 1.7μmol/L, InRt = (43±3)%)^[4413]. **Source:** LUO YE SONG YE JIN SI TAO *Hypericum laricifolium* (aerial parts). **Ref:** 4413.

**9366 Hentriacontic acid**

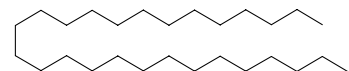
Melissic acid B [38232-01-8] C₃₁H₆₂O₂ (466.84). mp 93.5–94.0°C. **Source:** GOU QI GEN PI *Lycium chinense*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. **Ref:** 2, 660.

**9367 1β,2β,3α,5α,7β,8β,11-Heptaacetoxy-dihydroagarofuran**

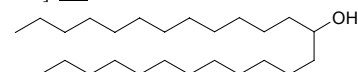
C₂₉H₄₀O₁₅ (628.63). Amorphous powder, [α]_D²⁵ = -19.7° (c = 2.1, MeOH).
Pharm: Immunosuppressant (inhibits lymphocyte transformation, 80μg/mL, InRt = 34%, control Dexamethasone, 50μg/mL, InRt = 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.

**9368 n-Heptacosane**

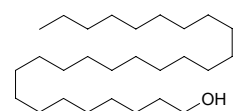
Heptacosane [593-49-7] C₂₇H₅₆ (380.75). mp 59.5°C, bp 422°C, bp 270°C/15mmHg. **Source:** SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. **Ref:** 2, 616, 660, 1521.

**9369 14-Heptacosanol**

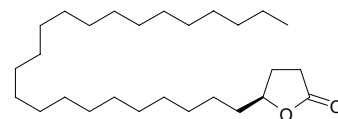
C₂₇H₅₆O (396.75). **Source:** MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. **Ref:** 660.

**9370 Heptacosanol**

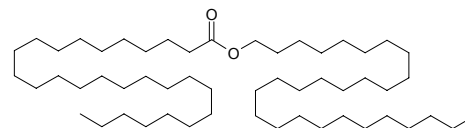
1-Heptacosanol [2004-39-9] C₂₇H₅₆O (396.75). mp 81.5°C, mp 76°C. **Source:** MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*]. **Ref:** 476.

**9371 Heptacosan-4-olide**

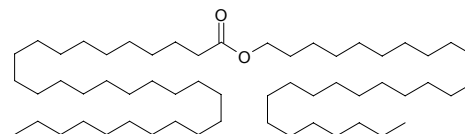
C₂₇H₅₂O₂ (408.71). **Source:** FU CHUI FE LAO JU *Flourensia cernua*. **Ref:** 3433.

**9372 Heptacosyl heptacosanate**

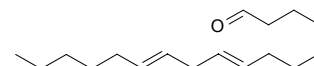
C₅₄H₁₀₈O₂ (789.46). **Source:** CHONG BAI LA *Ericerus pela*. **Ref:** 6.

**9373 Heptacosyl melissate**

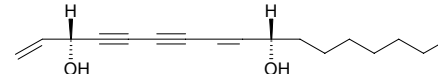
C₅₇H₁₁₄O₂ (831.54). **Source:** CHONG BAI LA *Ericerus pela*. **Ref:** 6.

**9374 (Z,Z)-8,11-Heptadecadienal**

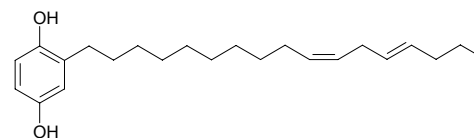
C₁₇H₃₀O (250.43). **Source:** KONG SHI CHUN *Ulva pertusa*. **Ref:** 660.

**9375 1,8-Heptadecadiene-4,6-diyne-3,10-diol**

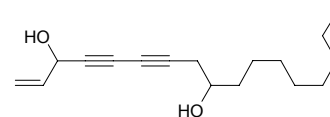
C₁₇H₂₄O₂ (260.38). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*], REN SHEN XI YANG SHEN ZA JIAO ZHONG *Panax ginseng* x *P. quinquefolium* (hairy root). **Ref:** 2, 5495.

**9376 10'(Z),13'(E)-Heptadecadienylhydroquinone**

C₂₃H₃₆O₂ (344.54). Colorless oil. **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 4.6μg/mL; Huh7, IC₅₀ = 6μg/mL; HCT116, IC₅₀ = 3.5μg/mL; LoVo, IC₅₀ = 5.6μg/mL; C6, IC₅₀ = 1μg/mL); antioxidant (iron/ascorbate system with linoleic acid as substrate for antioxidative potency (AOP) determination, 4mg/L, AOP = 95%; control BHT, AOP = 100%). **Source:** LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*] (sap: yield = 3.15%). **Ref:** 4662.

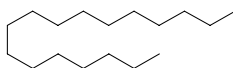
**9377 Heptadeca-1-en-4,6-diyne-3,9-diol**

C₁₇H₂₆O₂ (262.40). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*]. **Ref:** 2.

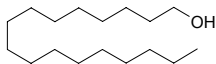


9378 Heptadecane

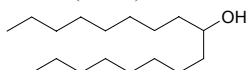
[629-78-7] C₁₇H₃₆ (240.48). Source: DANG SHEN *Codonopsis pilosula*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**9379 1-Heptadecanol**

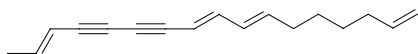
[1454-85-9] C₁₇H₃₆O (256.48). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**9380 9-Heptadecanol**

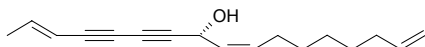
C₁₇H₃₆O (256.48). Source: BAN XIA *Pinellia ternata*. Ref: 660.

**9381 Heptadeca-1,7,9,15-tetraene-11,13-diyne***

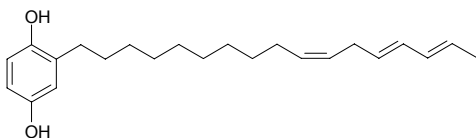
C₁₇H₂₀ (224.35). Yellowish powder, mp 72~73°C. Pharm: Cytotoxic (HL-60, IC₅₀ = 2.3 μg/mL, K562, IC₅₀ = 5.6 μg/mL). Source: GUI ZHEN CAO *Bidens bipinnata* (whole herb). Ref: 4596.

**9382 2(E),9(Z),16-Heptadecatriene-4,6-diyne-8-ol**

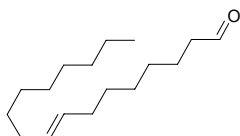
C₁₇H₂₂O (242.36). [α]_D²⁰ = +173.5° (c = 0.3, CHCl₃). Pharm: NFAT transcription factor inhibitor (IC₅₀ = (4.95±0.24) μmol/L, control Cyclosporin A, IC₅₀ = (0.31±0.01) μmol/L). Source: CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf). Ref: 4511.

**9383 10'(Z),13'(E),15'(E)-Heptadecatrienylhydroquinone**

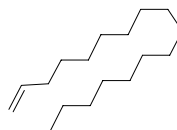
C₂₃H₃₄O₂ (342.53). Pale yellow oil. Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 2.8 μg/mL; Huh7, IC₅₀ = 3.9 μg/mL; HCT116, IC₅₀ = 2 μg/mL; LoVo, IC₅₀ = 4.5 μg/mL; C6, IC₅₀ = 0.9 μg/mL); antioxidant (iron/ascorbate system with linoleic acid as substrate for antioxidative potency (AOP) determination, 4mg/L, AOP = 97%; control BHT, AOP = 100%). Source: LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*] (sap: yield = 2.30%). Ref: 4662.

**9384 8-Heptadecenal**

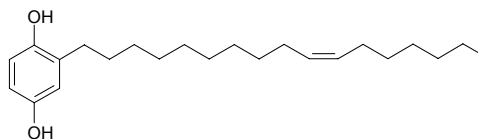
C₁₇H₃₂O (252.44). Source: JIAO MO *Monostroma nitidum*, KONG SHI CHUN *Ulva pertusa*, TIAO HU TAI *Enteromorpha clathrata*. Ref: 660.

**9385 1-Heptadecene**

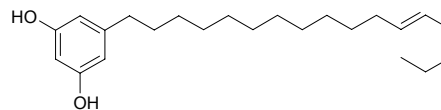
C₁₇H₃₄ (238.46). Source: HONG HUA *Carthamus tinctorius*, MIAN MA *Dryopteris filix-mas*, NIU BANG GEN *Arctium lappa*, XIAO GUO QIANG WEI GEN *Rosa cymosa*, XUE LIAN *Saussurea involucrata*. Ref: 660.

**9386 10'(Z)-Heptadecenylhydroquinone**

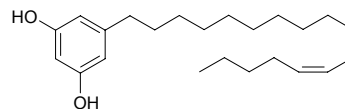
C₂₃H₃₈O₂ (346.56). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 4.7 μg/mL; Huh7, IC₅₀ = 6.4 μg/mL; HCT116, IC₅₀ = 3.4 μg/mL; LoVo, IC₅₀ = 2.9 μg/mL; C6, IC₅₀ = 1.1 μg/mL); antioxidant (iron/ascorbate system with linoleic acid as substrate for antioxidative potency (AOP) determination, 4mg/L, AOP = 60%; control BHT, AOP = 100%). Source: LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*] (sap: yield = 3.15%). Ref: 4662.

**9387 5-(Heptadec-12E-enyl)resorcinol**

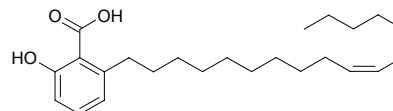
C₂₃H₃₈O₂ (346.56). Pharm: Antifungal (*Alternaria alternata*). Source: MANG GUO *Mangifera indica*. Ref: 658.

**9388 5-(Heptadec-12Z-enyl)resorcinol**

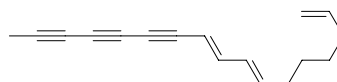
C₂₃H₃₈O₂ (346.56). Pharm: Cytotoxic (*in vitro*, A2780 ovarian cancer cell line, IC₅₀ = 9 μg/mL, marginal activity, control Actinomycin D, IC₅₀ = 1~3 ng/mL). Source: *Protorhus thouvenotii* (dried fruit). Ref: 5006.

**9389 6-(10'Z-Heptadecenyl)salicylic acid**

C₂₄H₃₈O₃ (374.57). Yellowish oil. Pharm: Prolyl endopeptidase inhibitor (*Ki* = 0.80 μmol/L, IC₅₀ = (0.62±0.02) μmol/L, control Oleic acid IC₅₀ = (31.3±2.4) μmol/L, Salicylic acid IC₅₀ = (1650±70) μmol/L, Z-Pro-prolinal IC₅₀ = (0.00219±0.00022) μmol/L). Source: BAI GUO YE *Ginkgo biloba*. Ref: 4098.

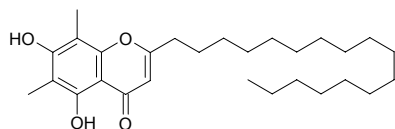
**9390 Heptadec-1,7,9-trien-11,13,15-triyne**

C₁₇H₁₈ (222.33). mp 18°C. Source: AI YE *Artemisia argyi*. Ref: 6.

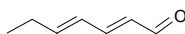


9391 2-*n*-Heptadecy-5,7-dihydroxy-6,8-dimethyl chromone

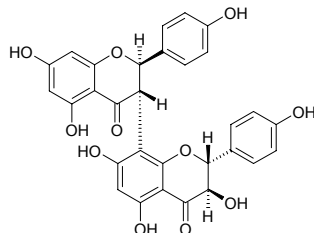
C₂₈H₄₄O₄ (444.66). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 660.

**9392 (*E,E*)-2,4-Heptadienal**

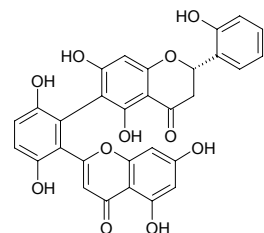
C₇H₁₀O (110.16). Source: KUN BU *Laminaria japonica*. Ref: 660.

**9393 3'',4'',4''',5'',5'',7''-Heptahydroxy-3,8''-biflavanone**

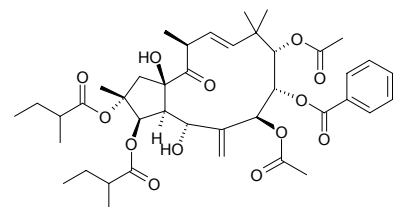
C₃₀H₂₂O₁₁ (558.50). Faint brown powder. Pharm: Antibacterial (methicillin-resistant *Staphylococcus aureus* (MRSA), MIC = 32μg/mL; vancomycin-resistant *Enterococci* sp. (VRE), MIC = 128μg/mL). Source: KE LE TENG HUANG *Garcinia kola* (root). Ref: 4495.

**9394 (1-2*S*)-1-5,11-5,1-7,11-7,1-2',11-2',11-5'-Heptahydroxy-[1-6,11-6']-flavanonylflavone**

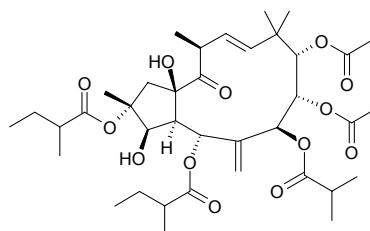
C₃₀H₂₀O₁₁ (556.49). Yellow needles (MeOH), mp 217–218°C (dec). Source: KE AI HUANG QIN *Scutellaria amabilis* (root; yield = 0.0052%dw). Ref: 2072.

**9395 (2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,9-diacetate-8-benzoate-2,3-bis(2-methylbutyrate)**

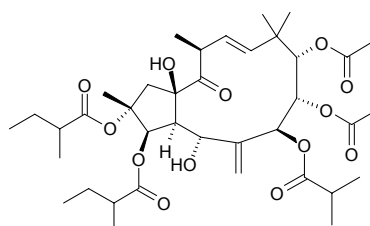
[250293-39-1] C₄₁H₅₆O₁₃ (756.90). Oil, [α]_D = +18° (*c* = 0.88, CHCl₃); [α]_D²⁵ = +18° (*c* = 0.88, CHCl₃). Pharm: NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (7.0±3.7)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365, 5356.

**9396 (2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-8,9-diacetate-7-isobutyrate-2,5-bis(2-methylbutyrate)**

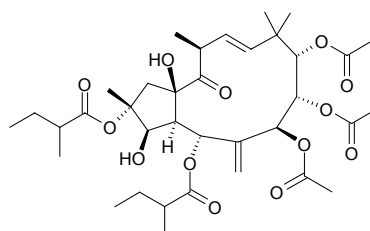
[250293-37-9] C₃₈H₅₈O₁₃ (722.88). Oil, [α]_D = +26° (*c* = 0.86, CHCl₃); [α]_D²⁵ = +26° (*c* = 0.86, CHCl₃). Pharm: NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (6.3±1.4)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. Source: DUN YE DA JI XIANG JIANG *Euphorbia obtusifoli*, DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365, 5356.

**9397 (2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-8,9-diacetate-7-isobutyrate-2,3-bis(2-methylbutyrate)**

[250293-40-4] C₃₈H₅₈O₁₃ (722.88). Oil, [α]_D = +8° (*c* = 2.2, CHCl₃); [α]_D²⁵ = +8° (*c* = 2.2, CHCl₃). Pharm: NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (5.1±0.2)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365, 5356.

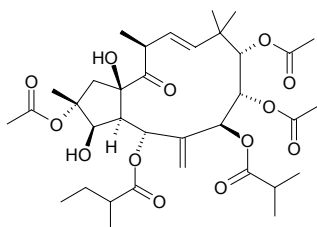
**9398 (2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,8,9-triacetate-2,5-bis(2-methylbutyrate)**

[250293-34-6] C₃₆H₅₄O₁₃ (694.82). Oil, [α]_D = +23° (*c* = 0.78, CHCl₃); [α]_D²⁵ = +23° (*c* = 0.78, CHCl₃). Pharm: NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (10.9±2.4)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365, 5356.



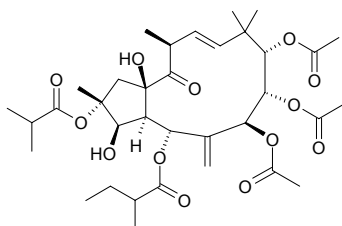
9399 (2R,3R,4R,5R,7S,8S,9S,11E,13S,15R)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-2,8,9-triacetate-7-isobutyrate-5-(2-methylbutyrate)

[250293-38-0] C₃₅H₅₂O₁₃ (680.80). Oil, [α]_D = +32° (c = 0.68, CHCl₃); [α]_D²⁵ = +32° (c = 0.68, CHCl₃). **Pharm:** NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (12.7±3.6)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. **Source:** DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. **Ref:** 2365, 5356.



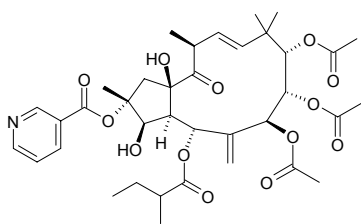
9400 (2R,3R,4R,5R,7S,8S,9S,11E,13S,15R)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,8,9-triacetate-2-isobutyrate-5-(2-methylbutyrate)

[250293-35-7] C₃₅H₅₂O₁₃ (680.80). Oil, [α]_D = +29° (c = 0.68, CHCl₃); [α]_D²⁵ = +29° (c = 0.68, CHCl₃). **Pharm:** NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (13.9±1.6)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. **Source:** DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. **Ref:** 2365, 5356.



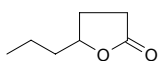
9401 (2R,3R,4R,5R,7S,8S,9S,11E,13S,15R)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,8,9-triacetate-2-nicotinate-5-(2-methylbutyrate)

[250293-36-8] C₃₇H₄₉NO₁₃ (715.80). Oil, [α]_D = -6° (c = 0.68, CHCl₃); [α]_D²⁵ = -6° (c = 0.68, CHCl₃). **Pharm:** NADH oxidase inhibitor (submitochondrial particles from bovine heart, IC₅₀ = (13.9±1.8)μmol/L, control Rotenone, IC₅₀ = (0.0051±0.0009)μmol/L)^[5356]. **Source:** DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. **Ref:** 2365, 5356.



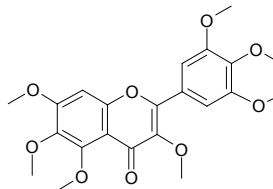
9402 γ-Heptalactone

[105-21-5] C₇H₁₂O₂ (128.17). **Source:** CHAI HU *Bupleurum chinense*. **Ref:** 2.



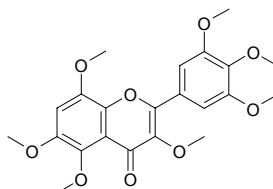
9403 3,5,6,7,3',4',5'-Heptamethoxyflavone

C₂₂H₂₄O₉ (432.43). mp 156–157°C. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 6, 11.



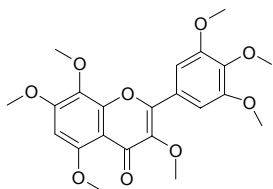
9404 3,5,6,8,3',4',5'-Heptamethoxy flavone

C₂₂H₂₄O₉ (432.43). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 660.



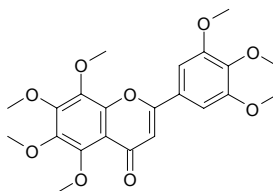
9405 3,5,7,8,3',4',5'-Heptamethoxyflavone

Hibiscetin-heptamethylether C₂₂H₂₄O₉ (432.43). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.



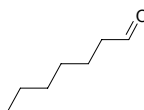
9406 5,6,7,8,3',4',5'-Heptamethoxy flavone

5'-Methoxynobiletin C₂₂H₂₄O₉ (432.43). **Pharm:** Cytotoxic (HeLa, IC₅₀ = 43.3μg/mL, control Mitomycin C, IC₅₀ = 1.7μg/mL)^[4092]. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 660, 4092.



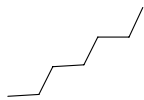
9407 Heptanal

[111-71-7] C₇H₁₄O (114.19). mp -43.3°C, bp 152.8°C, bp 59.6°C/30mmHg. **Source:** KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*]. **Ref:** 2, 660, 1521.

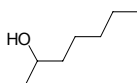


9408 Heptane

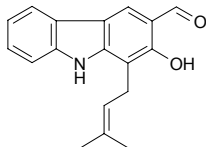
[142-82-5] C₇H₁₆ (100.21). mp -91.61°C, bp 98.3°C. Source: SHAN ZHA *Crataegus pinnatifida*, SHENG JIANG *Zingiber officinale*. Ref: 2, 1521.

**9409 2-Heptanol**

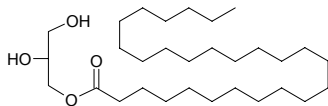
[543-49-7] C₇H₁₆O (116.21). Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. Ref: 2, 1521.

**9410 Heptaphylline**

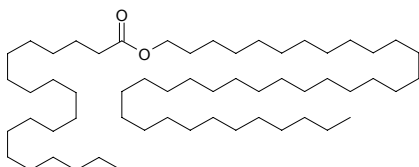
2-Hydroxy-1-(3-methyl-2-butenyl)-carbazole-3-carboxaldehyde [17750-35-5] C₁₈H₁₇NO₂ (279.34). Bright-yellow needles (Et₂O or CHCl₃-hexane), mp 171~172°C. Source: SHAN HUANG PI *Clausena excavata*, QI YE HUANG PI *Clausena heptaphylla*. Ref: 703, 1521.

**9411 (2S)-1-O-Heptacosanoyl glycerol**

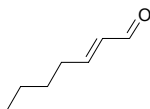
C₃₀H₆₀O₄ (484.81). White powder, mp 64~65°C. Source: XI NANG MA WEI ZAO *Sargassum parvivesiculosum*. Ref: 2591.

**9412 Heptatriacontanyl eicosanoate**

C₅₇H₁₁₄O₂ (831.54). mp 73.9°C. Source: CHANG YE AI JU *Tanacetum longifolium*. Ref: 1934.

**9413 α-Heptenal**

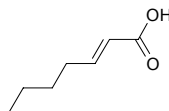
[18829-55-5] C₇H₁₂O (112.17). bp 165~167°C, bp 61~62°C/15mmHg. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6, 1521.

**9414 3-Heptenal**

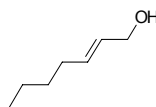
C₇H₁₂O (112.17). bp 151°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**9415 2-Heptenic acid**

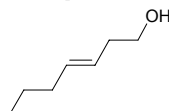
[18999-28-5] C₇H₁₂O₂ (128.17). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**9416 β-Heptenol**

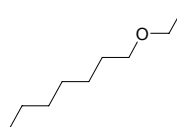
[22104-77-4] C₇H₁₄O (114.19). bp 177~179°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6, 1521.

**9417 γ-Heptenol**

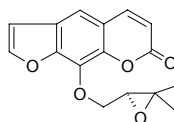
[1708-81-2] C₇H₁₄O (114.19). bp (*cis*- and *trans*-) 81~83°C/19mmHg, (*trans*-) 170~171°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**9418 Heptyl ethyl ether**

[1969-43-3] C₉H₂₀O (144.26). bp 166.6°C. Source: WEN PO *Cydonia oblonga*. Ref: 6.

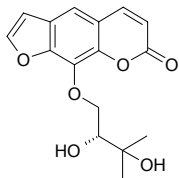
**9419 Heraclenin‡**

Epoxyimperatorin C₁₆H₁₄O₅ (286.29). Yellowish slender acicular crystals (hexane-ethyl acetate), mp (+) 111°C, (-) 106.5~108.0°C, (±) 113.0~114.5°C. [α]_{589nm}²³ = +25.8°, [α]_{500nm}²³ = +29.5°, [α]_{450nm}²³ = +41.6°, [α]_{400nm}²³ = +66.4° (c = 1.085, pyridine); [α]_D³² = +22° (pyridine). Pharm: Anti-inflammatory (rat, swollen foot model caused by carrageenan, 100mg/kg orl, InRt = 69%); antispasmodic (rat intestine *in vitro*); CVS activity (enhances arterial tension and myocardial contractility); respiratory stimulant (rat, 1~2mg/kg); T-Cell Proliferation inhibitor^[4071]. Source: GOU JU HE *Poncirus trifoliata*, YIN DU JIU LI XIANG *Murraya koenigii*, HUI BAI DU HUO *Heraclium canescens*, GUANG RONG YIN YU *Skimmia laureola*, BEI FANG DANG GUI *Angelica ursina*, SHUAN CHI QIN *Prangos pabularia*, AO PA CAO *Oppopanax chironium* (root). Ref: 6, 900, 1521, 4071. ‡Note: See compound 16447.

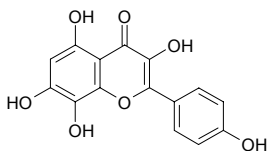


9420 Heraclenol

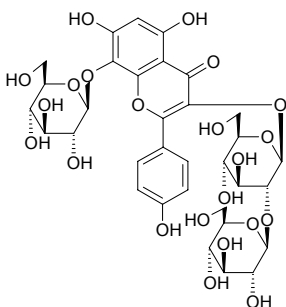
Prangenin hydrate; Komalin [2817-09-6] C₁₆H₁₆O₆ (304.30). mp 115~117°C; mp 117~118°C, [α]_D³² = +16.5° (pyridine). Source: GOU JU ZHI SHI *Poncirus trifoliata*, YAN JIAO CAO *Boenninghausenia albiflora*, YUN NAN QIANG HUO *Pleurospermum rivulorum*. Ref: 551, 1521, 2495, 3302.

**9421 Herbacetin**

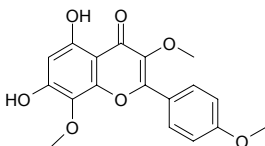
[527-95-7] C₁₅H₁₀O₇ (302.24). Pharm: Yellow pigment. Source: MA HUANG *Ephedra sinica*. Ref: 2, 658.

**9422 Herbacetin-3-β-D-(2-O-β-D-glucopyranosylglucopyranoside)-8-β-D-glucopyranoside**

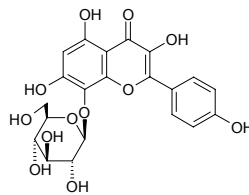
C₃₃H₄₀O₂₂ (788.67). Source: MU ZEI *Equisetum hiemale*. Ref: 2.

**9423 Herbacetin 3,8,4'-trimethyl ether**

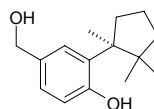
C₁₈H₁₆O₇ (344.32). Pharm: Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC₅₀ > 62.5 μg/mL; control NDGA, IC₅₀ = (0.7±0.3) μg/mL, Vitamin C, IC₅₀ = (1.9±0.7) μg/mL, Trolox, IC₅₀ = (1.4±0.5) μg/mL)^[3850]; cytotoxic (XTT assay, HL-60 cells, IC₅₀ > 50.0 μg/mL; control NDGA, IC₅₀ = (2.6±0.2) μg/mL, Vitamin C, IC₅₀ > 10.0 μg/mL, Trolox, IC₅₀ > 10.0 μg/mL)^[3850]. Source: JIAN TENG BAI JIU CAO *Conyza stricta*, SAN CHI LA RUI A *Larrea tridentata* (leaf), SAN JIAO FEN YE JUE *Pityrogramma triangularis*, XIAO XING HUA YAN QIANG WEI *Cistus parviflorus*. Ref: 1521, 3850.

**9424 Herbacin**

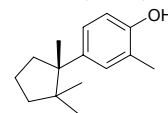
[11021-22-0] C₂₁H₂₀O₁₂ (464.39). mp 212~214°C. Source: SHU KUI HUA *Althaea rosea*. Ref: 6, 1521.

**9425 (-)-Herbertene-1,12-diol**

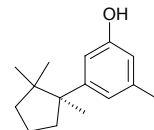
(-)-4-Hydroxymethyl-2-(1',2',2'-trimethylcyclopentyl) phenol C₁₅H₂₂O₂ (234.34). Colorless oil. Source: *Tylimanthus renifolius*. Ref: 3491.

**9426 β-Herbertenol**

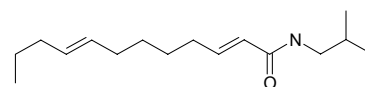
C₁₅H₂₂O (218.34). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.

**9427 (-)-γ-Herbertenol**

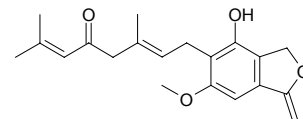
(-)-5-Methyl-3-(1',2',2'-trimethylcyclopentyl) phenol C₁₅H₂₂O (218.34). Colorless oil. Source: *Tylimanthus renifolius*. Ref: 3491.

**9428 Herculin**

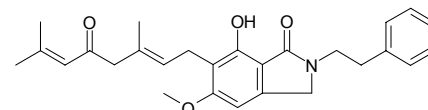
C₁₆H₂₉NO (251.42). Crystals (light petroleum), disgusting pungent odor, mp 59~60°C. Pharm: Pesticide. Source: MEI GUO CI JIAO *Zanthoxylum clava-hercules*, HUANG BAI *Phellodendron amurense*. Ref: 661.

**9429 Hericenone A**

C₁₉H₂₂O₅ (330.38). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660, 4513.

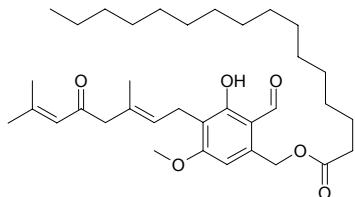
**9430 Hericenone B**

C₂₇H₃₁NO₄ (433.55). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

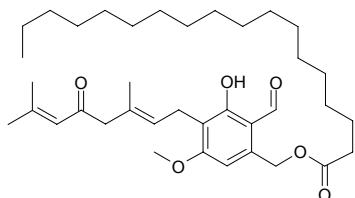


9431 Hericenone C

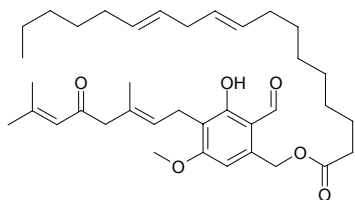
$C_{35}H_{54}O_6$ (570.82). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9432 Hericenone D**

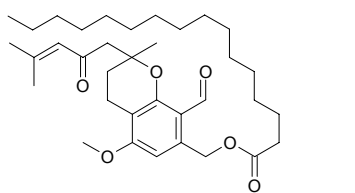
$C_{37}H_{58}O_6$ (598.87). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9433 Hericenone E**

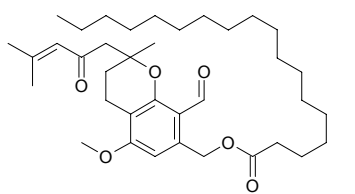
$C_{37}H_{54}O_6$ (594.84). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9434 Hericenone F**

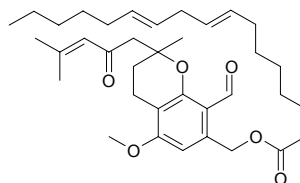
$C_{35}H_{54}O_6$ (570.82). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9435 Hericenone G**

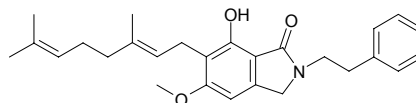
$C_{37}H_{58}O_6$ (598.87). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9436 Hericenone H**

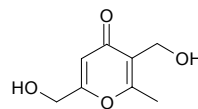
[141973-37-7] $C_{36}H_{52}O_6$ (580.81). Yellowish oil. Pharm: Inhibits biosynthesis of PGE₂ (25µg/mL, rat macrophage); NGF synthetic stimulant (induces mus spider neuroglia cell, 33µg/mL, 4 times normal NGF). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 1521, 1095.

**9437 Hericerin**

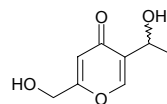
$C_{27}H_{33}NO_3$ (419.57). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

**9438 Herierin III**

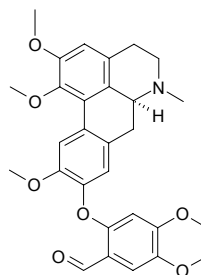
6-Methyl-2,5-dihydroxymethyl-γ-pyrone III $C_8H_{10}O_4$ (170.17). Colorless columnar crystals, mp 122~123°C. Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 161, 660.

**9439 Herierin IV**

$C_8H_{10}O_4$ (170.17). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

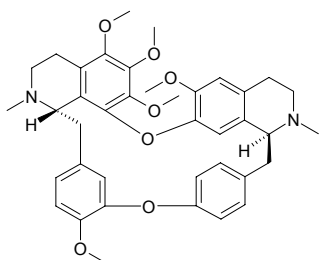
**9440 Hernandaline**

$C_{29}H_{31}NO_7$ (505.57). Source: LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*]. Ref: 660.

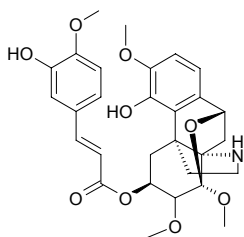


9441 Hernandezine

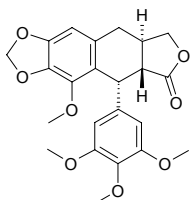
Thalicsimine; Thaliximine [6681-13-6] $C_{39}H_{44}N_2O_7$ (652.79). Crystals (hexane), mp 192~193°C, mp 122~124°C, mp 158~159°C, $[\alpha]_D^{20} = +250^\circ$ ($c = 0.2$, chloroform). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 25µg/mg; *Staphylococcus aureus*, MIC = 100µg/mg); Antifungal (*Candida albicans*, MIC = 50µg/mg); anti-inflammatory; antihypertensive (cat, iv, 1~3mg/kg); LD (cat, leads to rapid reduction of blood pressure until death) = 10mg/kg. **Source:** BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], BING GUO TANG SONG CAO *Thalictrum podocarpum*, DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], FEN SHI TANG SONG CAO *Thalictrum fendleri*, HE SHI TANG SONG CAO *Thalictrum hernandezii*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content = 0.21%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content = 0.45%)^[5508], RU LAN *Stephania hernandifolia*, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content = 0.09%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content = 0.07%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508]. **Ref:** 6, 658, 660, 5508.

**9442 Hernandifoline**

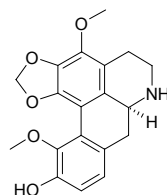
[30511-63-8] $C_{29}H_{33}NO_9$ (539.59). Crystals ($CHCl_3-Et_2O$), mp 133~135°C ($CHCl_3$ solvate), $[\alpha]_D^{32} = +48^\circ$ ($c = 0.82$, MeOH), $[\alpha]_D = -25^\circ$ (EtOH). **Source:** RU LAN *Stephania hernandifolia*. **Ref:** 6, 1521.

**9443 Hernandin**

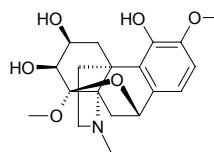
$C_{23}H_{24}O_8$ (428.44). **Source:** LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*]. **Ref:** 660.

**9444 Hernandine**

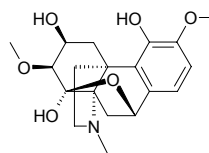
$C_{19}H_{19}NO_5$ (341.37). **Pharm:** Anti-HIV-1 inactive (HIV-1 IN inhibitor, $IC_{50} > 100\mu mol/L$, positive control Suramin, $IC_{50} = 2.4\mu mol/L$)^[4224]. **Source:** DING HU DIAO ZHANG *Lindera chunii* (root). **Ref:** 4224.

**9445 Hernandine A**

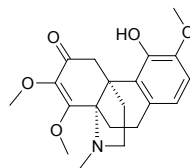
Hernandine [32593-70-7] $C_{19}H_{25}NO_6$ (363.41). mp 197~199°C, $[\alpha]_D = -33^\circ$ (EtOH). **Source:** RU LAN *Stephania hernandifolia*. **Ref:** 6, 1521.

**9446 Hernandine B**

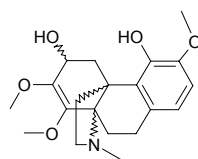
$C_{19}H_{25}NO_6$ (363.41). **Source:** RU LAN *Stephania hernandifolia*. **Ref:** 6.

**9447 Hernandoline**

Aknadinine [24148-86-5] $C_{20}H_{25}NO_5$ (359.43). mp 70°C, $[\alpha]_D^{29} = -283^\circ$ ($c = 0.1$, EtOH). **Source:** RU LAN *Stephania hernandifolia*, YA LI QIAN JIN TENG *Stephania elegans*, TAI WAN QIAN JIN TENG *Stephania sasakii*. **Ref:** 6, 1521.

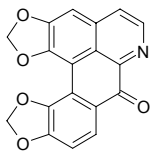
**9448 Hernandolinol**

[35452-61-0] $C_{20}H_{27}NO_5$ (361.44). $[\alpha]_D = -97.9^\circ$ (EtOH). **Source:** RU LAN *Stephania hernandifolia*. **Ref:** 6, 1521.

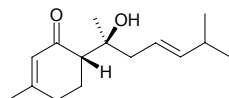


9449 Hernandonine

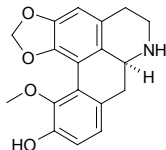
$C_{18}H_{19}NO_5$ (319.28). **Pharm:** Anti-HIV-1 (HIV-1 IN inhibitor, IC_{50} = 16.3 μ mol/L, positive control Suramin, IC_{50} = 2.4 μ mol/L). **Source:** DING HU DIAO ZHANG *Lindera chunii* (root). **Ref:** 4224.

**9450 (+)-Hernandulcin**

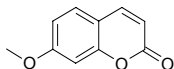
$C_{15}H_{24}O_2$ (236.36). **Source:** TIAN SHE CAO *Lippia dulcis* (aerial parts). **Ref:** 4508.

**9451 Hernangerine**

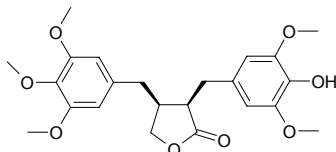
Nandigerine $C_{18}H_{17}NO_4$ (311.34). **Pharm:** Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC_{50} > 100 μ mol/L, positive control Suramin, IC_{50} = 2.4 μ mol/L)^[4224]. **Source:** DING HU DIAO ZHANG *Lindera chunii* (root), LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*], YUE GUI YE *Laurus nobilis*. **Ref:** 660, 2601, 4224.

**9452 Herniarin**

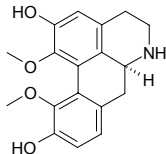
7-Methoxycoumarin [531-59-9] $C_{10}H_8O_3$ (176.17). mp 117~118°C. **Pharm:** Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. **Source:** A YA PAN ZE LAN *Eupatorium ayapana*, BO NIANG HAO *Descurainia sophia*, YA JIAO AI *Artemisia lactiflora* (whole plant: mean content in different growth period = 0.70%^[5508]), YU ZHUANG YUN XIANG *Ruta pinnata*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. **Ref:** 6, 660, 1521, 3069, 5508.

**9453 (-)-Hernolactone**

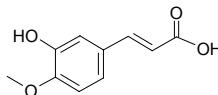
$C_{23}H_{28}O_8$ (432.47). $[\alpha]_D^{20}$ = -24.9° (c = 2.0, $CHCl_3$). **Source:** LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). **Ref:** 5030.

**9454 Hernovine**

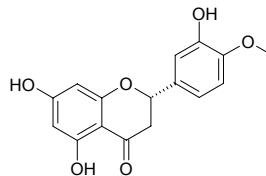
$C_{18}H_{19}NO_4$ (313.36). **Source:** LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*]. **Ref:** 660.

**9455 Hesperetic acid**

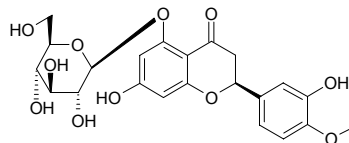
Isoferulic acid; Hesperetic acid [537-73-5] $C_{10}H_{10}O_4$ (194.19). Colorless acicular crystals, mp 225~229°C; mp 238~240°C; plates, mp 233~234°C. **Pharm:** Antipyretic; anti-inflammatory. **Source:** DA SAN YE SHENG MA *Cimicifuga heracleifolia* (dried rhizome: content = 0.20%^[5508]), DAN SHEN *Salvia miltiorrhiza*, HUANG SAN QI *Souliea vaginata* (dried rhizome: content = 0.07%^[5508]), LEI YE SHENG MA *Cimicifuga asiatica* (dried rhizome: content = 0.05%^[5508]), MAO LIAN HAO *Artemisia vestita*, NAN CHUAN SHENG MA *Cimicifuga nanchuanensis* (dried rhizome: content = 0.10%^[5508]), SAN MIAN DAO *Cimicifuga acerina* (dried rhizome: content = 0.03%^[5508]), SHENG MA *Cimicifuga foetida* (dried rhizome: content scope = 0.03%~0.26%^[5501], content = 0.13%^[5508]), TIE PO LUO *Beesia calthaeifolia* (dried rhizome: content = 0.12%^[5508]), XIE CAO *Valeriana officinalis*, XING AN SHENG MA *Cimicifuga dahurica* (dried rhizome: content = 0.26%^[5508]), YE SHENG MA *Cimicifuga simplex* (dried rhizome: content = 0.15%^[5508]), ZI BAI PI *Catalpa ovata*, ZONG ZHUANG SHENG MA *Cimicifuga racemosa*. **Ref:** 2, 6, 474, 660, 1521, 5501, 5508.

**9456 Hesperetin**

Hesperitin [520-33-2] $C_{16}H_{14}O_6$ (302.29). Triangular lamellar matter (ethanol), mp 216~218°C, $[\alpha]_D^{27}$ = -37.6° (c = 1.80, ethanol). **Pharm:** Antibacterial; antiviral; feeding-inhibitor (*Schizaphis graminis* and *Myzus persicae*); inhibits lipolysis (rat fat cells, induced by adrenaline and theocin); anti-tumor promotor; 3- α -hydroxysteroid dehydrogenase inhibitor; aldose reductase inhibitor (0.01 mg/mL, InRt = 25.6%); promotes biosynthesis of DNA (karyons of murine hepatic cells *in vitro*); anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF- α release in RAW264.7 macrophages, IC_{50} \approx 50 μ mol/L)^[4416]; passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β -hexosaminidase release from RBL-2H3 cells, IC_{50} = (71 \pm 2) μ mol/L, control Azelastine, IC_{50} = (35 \pm 2) μ mol/L; PCA reaction inhibitor, 5mg/kg ip, InRt = (65.9 \pm 2.9)%^[5041]). **Source:** JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], NING MENG *Citrus limon*, TIAN CHENG *Citrus sinensis*, WU HE MI JU *Citrus unshiu* (pericarp). **Ref:** 2, 900, 1521, 4416, 5041.

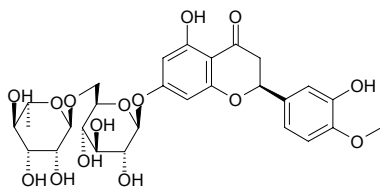
**9457 Hesperetin-5-glucoside**

[69651-80-5] $C_{22}H_{24}O_{11}$ (464.43). mp 257~258°C, $[\alpha]_D$ = -112.8° (ethanol). **Source:** TAO GEN *Prunus persica*. **Ref:** 6, 1521.

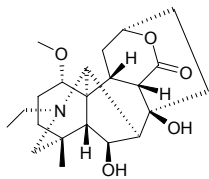


9458 Hesperidin

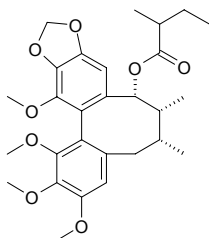
Citrus-hesperidin; Cirontin; Vitamin B; Cirantin [520-26-3] $C_{28}H_{34}O_{15}$ (610.57). Needles, mp 258–262°C (softens at 250°C), $[\alpha]_D^{20} = -47.3^\circ$ (pyridine). **Pharm:** Antiviral; aldose reductase inhibitor (rat eye lens); promotes oviposition (*Papilio xuthus* and *Papilio protenor*); frostbite preventive; enhances effects of vitamin C; passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β -hexosaminidase release from RBL-2H3 cells, $IC_{50} > 500\mu\text{mol/L}$, control Azelastine, $IC_{50} = (35\pm 2)\mu\text{mol/L}$; PCA reaction inhibitor, 20mg/kg orl, $\text{InRt} = (71.9\pm 5.5\%)^{[5041]}$. **Source:** BA XIAN *Galium aparine*, FO SHOU *Citrus medica* var. *sarcodactylis*, GAN PI *Citrus chachiensis* (dried ripe pericarp: content = 2.10%)^[5508], GOU JU *Poncirus trifoliata*, JI CAI *Capsella bursa-pastoris*, JIAO GAN *Citrus tankan*, JIAO GAN PI *Citrus tankan*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JU PI *Citrus reticulata* (dried ripe pericarp: content scope = 3.4%–7.2%^[5501], mean content = 5.81%^[5508]), JU YUAN *Citrus medica*, LI MENG PI *Citrus limonia*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.000014%dw)^[4752], NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, OU BO HE *Mentha longifolia*, SU ZHU YANG YANG *Galium mollugo*, WU HE MI JU *Citrus unshiu* (pericarp), ZHI KE *Citrus aurantium* (dried ripe pericarp: content = 3.10%)^[5508], ZHI SHI *Citrus aurantium* (dried ripe pericarp: content = 0.99%)^[5508]. **Ref:** 2, 4, 658, 660, 4752, 5041, 5501, 5508.

**9459 Heteratisine**

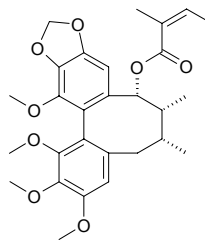
[3328-84-5] $C_{22}H_{33}NO_5$ (391.51). mp 267–269°C, $[\alpha]_D^{28} = +40^\circ$ ($c = 1$, MeOH). **Pharm:** Increases blood pressure (short acting). **Source:** YI YE WU TOU *Aconitum heterophyllum*, GAN QING WU TOU *Aconitum tanguticum*, ZE WU TOU *Aconitum zeravschanicum*. **Ref:** 658, 1521.

**9460 Heteroclitin A**

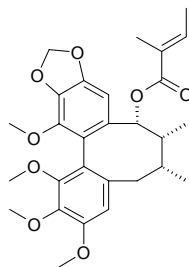
[140369-75-1] $C_{28}H_{36}O_8$ (500.59). **Source:** YI XING NAN WU WEI ZI *Kadsura heteroclitia* [Syn. *Uvaria heteroclitia*]. **Ref:** 2436.

**9461 Heteroclitin B**

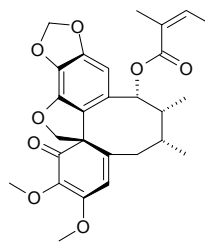
[140461-47-8] $C_{28}H_{34}O_8$ (498.58). **Source:** YI XING NAN WU WEI ZI *Kadsura heteroclitia* [Syn. *Uvaria heteroclitia*]. **Ref:** 2436.

**9462 Heteroclitin C**

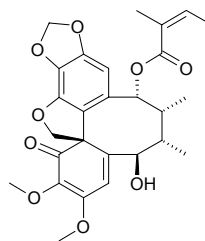
[140460-42-0] $C_{28}H_{34}O_8$ (498.58). **Source:** YI XING NAN WU WEI ZI *Kadsura heteroclitia* [Syn. *Uvaria heteroclitia*]. **Ref:** 2436.

**9463 Heteroclitin D**

[140369-76-2] $C_{27}H_{30}O_8$ (482.54). **Pharm:** Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (9.4±0.5)% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%)^[4644]. **Source:** NEI NAN WU WEI ZI *Kadsura interior* (stem), YI XING NAN WU WEI ZI *Kadsura heteroclitia* [Syn. *Uvaria heteroclitia*]. **Ref:** 2436, 4644.

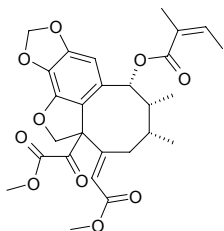
**9464 Heteroclitin E**

[140369-77-3] $C_{27}H_{30}O_9$ (498.53). **Source:** YI XING NAN WU WEI ZI *Kadsura heteroclitia* [Syn. *Uvaria heteroclitia*]. **Ref:** 2436.

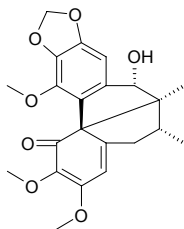


9465 Heteroclitin F

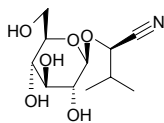
[144049-67-2] C₂₇H₃₀O₁₀ (514.53). **Pharm:** Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (16.5±0.6)% (positive control value 32pmol, 20ng TPA=100%), viability of Raji cells = 60%)^[4644]. **Source:** NEI NAN WU WEI ZI *Kadsura interior* (stem: yield = 0.00039%dw), YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436, 4644.

**9466 Heteroclitin G**

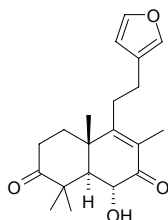
Kadsulignan K [144027-74-7] C₂₂H₂₄O₇ (400.43). **Source:** YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436.

**9467 Heterodendrin**

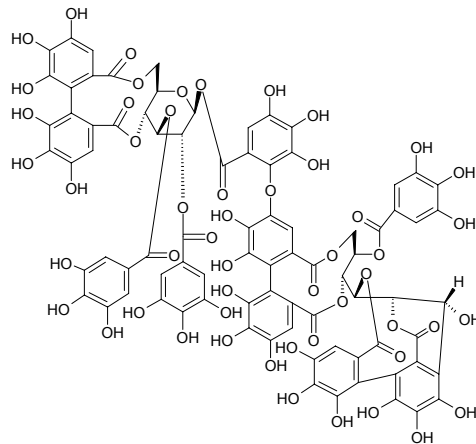
(S)-2-(β-D-Glucopyranosyloxy)-3-methylbutanenitrile [66465-22-3] C₁₁H₁₉NO₆ (261.28). mp 106~107°C (as tetra-Ac), [α]_D²⁵ = -45° (c = 0.5, MeOH). **Pharm:** Toxin. **Source:** SHENG DI HONG JING TIAN *Rhodiola sacra*, MAI YA *Hordeum vulgare*, XI BO JIN HE HUAN *Acacia sieberiana*, *Passiflora* sp., *Acacia* sp. **Ref:** 658, 742, 1521.

**9468 Heteronone A**

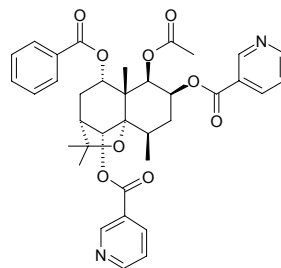
6β-Hydroxy-labdane-15,16-epoxy-14,13(16),8(9)-trien-3,7-dione C₂₀H₂₆O₄ (330.43). White needles, mp 160~161°C. **Source:** YI MU CAO *Leonurus heterophyllum* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4428.

**9469 Heterophyllin B**

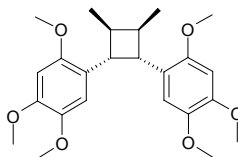
C₈₂H₅₆O₅₂ (1873.33). Grey-white powder, [α]_D = +104° (c = 1.0, MeOH). **Source:** ZHEN *Corylus heterophylla* (leaf). **Ref:** 4584.

**9470 Heterophylline**

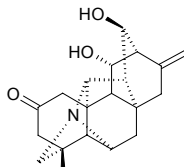
1β-Acetoxy-9α-benzoyloxy-2β,6α-dinicotinoyloxy-β-dihydroagarofuran C₃₆H₃₈N₂O₉ (642.71). mp 132~135°C, [α]_D = +63.2° (c = 1.00, CHCl₃). **Source:** YI YE MEI DENG MU *Maytenus heterophylla*. **Ref:** 5189.

**9471 Heterotropan**

C₂₄H₃₂O₆ (416.52). **Source:** BI CHENG QIE *Piper cubeba*. **Ref:** 660.

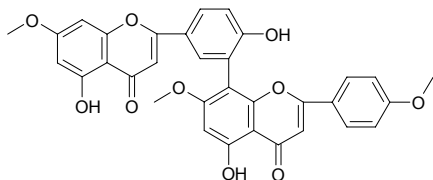
**9472 Hetisinone**

11,13-Dihydroxyhetisan-2-one; Dihydrohetisine [4829-55-4] C₂₀H₂₅NO₃ (327.43). Colorless crystals, mp 268~270°C; Rhombs (C₆H₆), mp 273~275°C, [α]_D = +18°. **Source:** GAN QING WU TOU *Aconitum tanguticum*, YI YE WU TOU *Aconitum heterophyllum*, KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 2203.

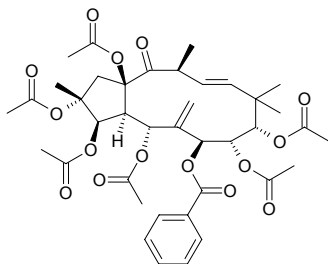


9473 Heveaflavone

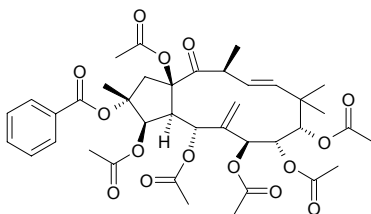
$C_{33}H_{24}O_{10}$ (580.55). Source: DA YE CAI *Selaginella doederleinii*. Ref: 660.

**9474 2 α ,3 β ,5 α ,8 α ,9 α ,15 β -Hexaacetoxy-7 β -benzyloxyjatropa-6(17), 11 E -dien-14-one**

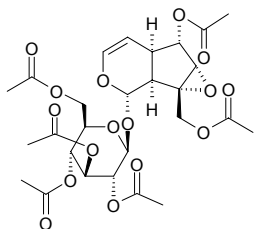
$C_{39}H_{48}O_{15}$ (756.81). Colorless crystals, mp 166–168°C, $[\alpha]_D^{25} = +12.9^\circ$ ($c = 0.50$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, B16 melanoma cell line, $IC_{50} > 5\mu g/mL$, no significant cytotoxicity)^[3078]; irritant inactive (mouse ear inflammation model, $ID_{50} > 100\mu g/ear$). Source: *Euphorbia turczaninowii* (whole herb). Ref: 3078.

**9475 3 β ,5 α ,7 β ,8 α ,9 α ,15 β -Hexaacetoxy-2 α -benzyloxyjatropa-6(17), 11 E -dien-14-one**

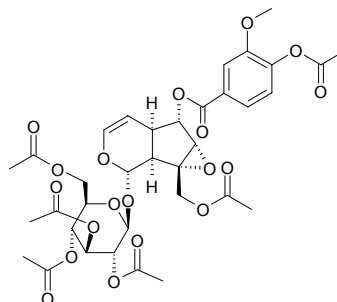
$C_{39}H_{48}O_{15}$ (756.81). Colorless crystals, mp 139–141°C, $[\alpha]_D^{25} = -59.1^\circ$ ($c = 0.62$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, B16 melanoma cell line, $IC_{50} > 5\mu g/mL$, no significant cytotoxicity)^[3078]; irritant inactive (mouse ear inflammation model, $ID_{50} > 100\mu g/ear$). Source: *Euphorbia turczaninowii* (whole herb). Ref: 3078.

**9476 Hexaacetyl catalpol**

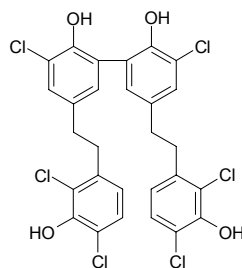
$C_{27}H_{34}O_{16}$ (614.56). Source: HU HUANG LIAN *Picrorhiza kurroa*. Ref: 660.

**9477 Hexaacetyl-6-vaniloyl catalpol**

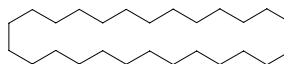
$C_{35}H_{40}O_{19}$ (764.70). Source: HU HUANG LIAN *Picrorhiza kurroa*. Ref: 660.

**9478 6,6',10,10',12,12'-Hexachloroisoperrottetin A**

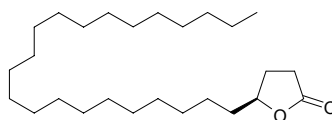
$C_{28}H_{20}Cl_6O_4$ (633.19). $[\alpha]_D^{20} = +0.0^\circ$ ($c = 0.2$, $CHCl_3$). Source: YUAN YE TAI *Jamesoniella colorata*. Ref: 3375.

**9479 n-Hexacosane**

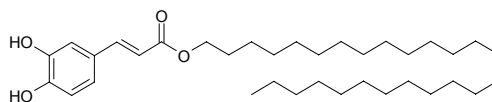
$C_{26}H_{54}$ (366.72). Source: MENG GU LI *Quercus mongolica*. Ref: 660.

**9480 Hexacosan-4-olide**

$C_{26}H_{50}O_2$ (394.69). White powder, mp 69°C (Hexane:EtOAc = 9:1). Pharm: Phytotoxin inactive (doesn't inhibit radicle growth of *Amaranthus hypochondriacus* and *Echinochloa crusgalli*)^[3433]; CaM interactor inactive^[3433]. Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

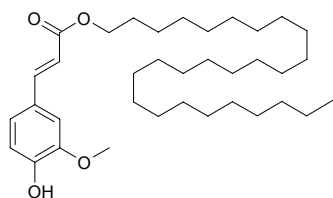
**9481 Hexacosanyl caffeate**

$C_{35}H_{60}O_4$ (544.87). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

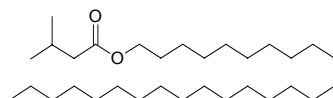


9482 Hexacosanyl ferulate

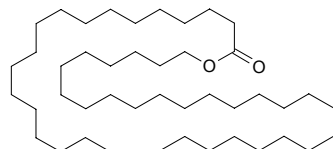
[63034-29-7] C₃₆H₆₂O₄ (558.89). Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 616.

**9483 n-Hexacosanyl isovalerate**

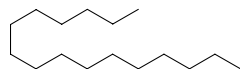
C₃₁H₆₂O₂ (466.84). Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**9484 Hexacosyl stearate**

C₄₄H₈₈O₂ (649.12). White waxy solid, mp 79~82°C. Source: HUANG LIAN HUA *Lysimachia davurica*. Ref: 2525.

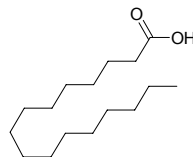
**9485 Hexadecane**

Cetane [544-76-3] C₁₆H₃₄ (226.45). mp 18.17°C, bp 287°C/160mmHg, bp 105~110°C/0.1mmHg. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium*, MEI GUI HUA *Rosa rugosa*, BI BA *Piper longum*. Ref: 2, 1521.

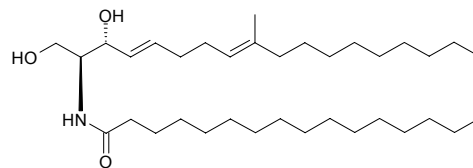
**9486 Hexadecanoic acid**

Palmitic acid; Aethalic acid; Cetylic acid [57-10-3] C₁₆H₃₂O₂ (256.43). Crystals, mp 63~64°C, bp 390°C, bp 268.5°C/100mmHg, bp 215°C/15mmHg. Pharm: Antifungal inactive (hmn pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*); COX-1 and COX-2 inhibitor (IC₅₀ = 3.9~180 μmol/L, lacking selectivity)^[4415]; platelet aggregation inhibitor (washed rabbit platelets, 100 μg/mL, 100 μmol/L AA-induced, InRt = 4.5%, control 50 μmol/L Aspirin, InRt = 100%; 10 μg/mL collagen-induced, InRt = 3.9%, 100 μmol/L Aspirin, InRt = 4.9%; 0.1 U/mL thrombin-induced, InRt = 6.0%, 100 μmol/L Aspirin, InRt = 1.7%; 2 ng/mL PAF-induced, InRt = 3.5%, 100 μmol/L Aspirin, InRt = 2.1%)^[5427]; LD₅₀ (mus, iv) = 57 mg/kg. Source: BA DOU *Croton tiglium*, BAI CHANG *Acorus calamus*, BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], BING LANG *Areca catechu*, CHAI HU *Bupleurum chinense*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA QING YE *Isatis indigotica*, DA ZAO *Ziziphus jujuba*, DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, DONG CHONG XIA CAO *Cordyceps sinensis*, DONG LING CAO *Rabdosia rubescens*, FU LING *Poria cocos*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f.

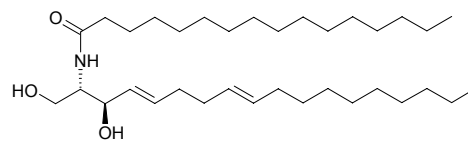
Huechingensis], GUA LOU *Trichosanthes kirilowii*, GUANG YE DING GONG TENG *Erycibe schmidtii*, HONG HUA *Carthamus tinctorius*, HUA DONG LAN CI TOU *Echinops grijsii*, HUANG QI *Astragalus membranaceus*, HUANG QIN *Scutellaria baicalensis*, LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: content = 6.5%)^[5508], LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PU HUANG *Typha angustata*, QIANG HUO *Notopterygium incisum*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], QUAN XIE *Buthus martensi*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], SHAN ZHA *Crataegus pinnatifida*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], TIAN HUA FEN *Trichosanthes kirilowii*, TIAN MA *Gastrodia elata*, WU SE MEI *Lantana camara* (aerial parts), XI YANG SHEN *Panax quinquefolium*, XING REN *Prunus armeniaca*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], YIN YANG HUO *Epimedium brevicornum*, YU XING CAO *Houttuynia cordata*, occurs in many plants. Ref: 2, 531, 549, 551, 557, 576, 582, 585, 596, 601, 660, 1521, 2576, 4309, 4415, 5427, 5508.

**9487 (2S,3R,4E,8E)-N-Hexadecanoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol**

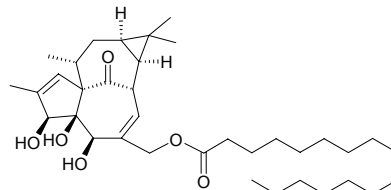
C₃₃H₆₇NO₃ (549.93). Amorphous powder, [α]_D²¹ = -11.6° (c = 0.09, CHCl₃). Source: HOU SHU SHAN GU *Panellus serotinus*. Ref: 4195.

**9488 (2S,3R,4E,8E)-2-Hexadecanoylamino-4,8-octadecadiene-1,3-diol**

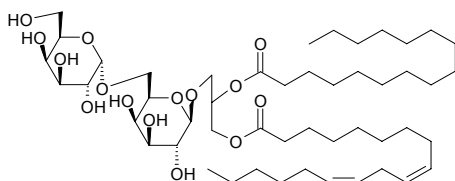
C₃₄H₆₅NO₃ (535.90). Colorless solid, mp 98~100°C, [α]_D²⁸ = +12.1° (c = 0.05, CHCl₃). Pharm: Cytotoxic (hmn peripheral blood mononuclear cells (PBMC), ED₅₀ = 20 μg/mL). Source: *Lobophytum* sp. Ref: 4432.

**9489 20-Hexadecanoylingenol**

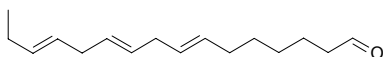
C₃₆H₅₈O₆ (586.86). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 6.



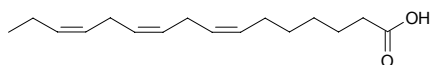
9490 1-O-Hexadecanoyl-2-O-(9Z,12Z-octadecadienyl)-3-O-[α -D-galactopyranosyl-(1''-6')-O- β -D-galactopyranosyl]-glycerol
 $C_{49}H_{88}O_{15}$ (917.24). White amorphous powder. **Pharm:** PAF antagonist.
Source: XI LAN ROU GUI *Cinnamomum zeylanicum*. **Ref:** 2199.



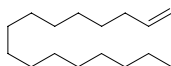
9491 7,10,13-Hexadecatrienal
 $C_{16}H_{26}O$ (234.39). **Source:** KONG SHI CHUN *Ulva pertusa*. **Ref:** 660.



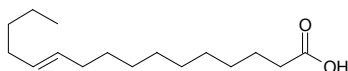
9492 7Z,10Z,13Z-Hexadecatrienoic acid
 $C_{16}H_{26}O_2$ (250.38). **Source:** FU PING *Lemna minor*. **Ref:** 660.



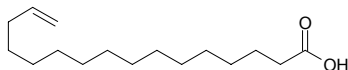
9493 1-Hexadecene
 $C_{16}H_{32}$ (224.43). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.



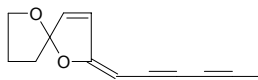
9494 11Z-Hexadecenoic acid
 $C_{16}H_{30}O_2$ (254.42). **Source:** FU PING *Lemna minor*. **Ref:** 660.



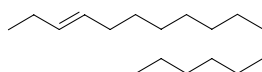
9495 ω -Hexadecenoic acid
 $C_{16}H_{30}O_2$ (254.42). **Source:** KUN BU *Laminaria japonica*. **Ref:** 660.



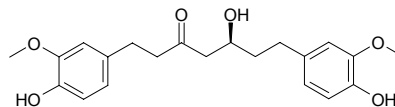
9496 2-(Hexa-2,4-dien-1-ylidene)-1,6-dioxaspiro[4.4]non-3-ene
[50257-98-2] $C_{13}H_{12}O_2$ (200.24). Yellowish crystals (petroleum ether), mp 48.5–49.5°C, $[\alpha]_D = -45.3^\circ$ (Et₂O). **Pharm:** Anti-inflammatory; insect antifeedant. **Source:** MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], *Chrysanthemum* spp. **Ref:** 6, 1521.



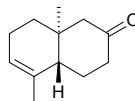
9497 Hexahydroaplotaxene
Z-14-Heptadecene $C_{17}H_{34}$ (238.46). **Source:** DA JI⁽⁴⁾ *Cirsium japonicum*. **Ref:** 660.



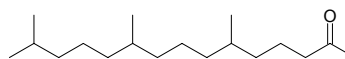
9498 Hexahydrocurcumin
 $C_{21}H_{26}O_6$ (374.44). mp 90–91°C (benzene), $[\alpha]_D^{24} = +9^\circ$. **Pharm:** Choleric (animals, *in vivo*); antihypercholesterolemic. **Source:** GAN JIANG *Zingiber officinale*, GAO LIANG JIANG *Alpinia officinarum*, JIANG HUANG *Curcuma longa*. **Ref:** 658, 660.



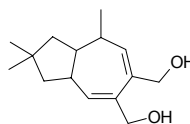
9499 (+)-3,4,4 α R,7,8,8 α R-Hexahydro-5,8 α -dimethylnaphthalen-2(1H)-one
 $C_{12}H_{18}O$ (178.28). Colorless oil. **Source:** *Tritomaria polita* (essential oil). **Ref:** 3446.



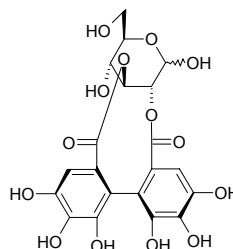
9500 Hexahydrofarnesyl acetone
6,10,14-Trimethyl-pentadecan-2-one $C_{18}H_{36}O$ (268.49). **Source:** AI YE *Artemisia argyi*, DENG XIN CAO *Juncus effusus*, HONG CHAI HU *Bupleurum scorzonerifolium*, LING XIANG CAO *Lysimachia foenum-graecum*, WU LIAN MEI *Cayratia japonica*, XIAO GUO XIANG CAO *Lysimachia microcarpa*, XUE LIAN *Saussurea involucrata*. **Ref:** 660.

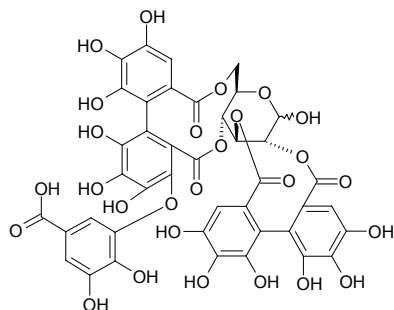
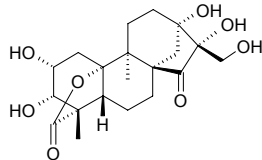
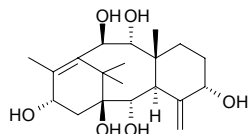
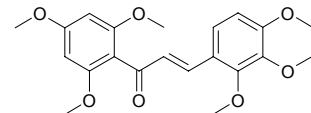
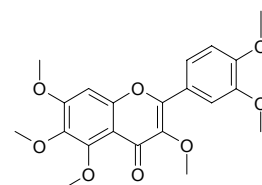
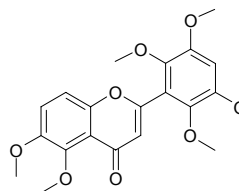
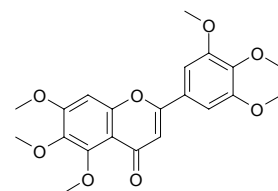
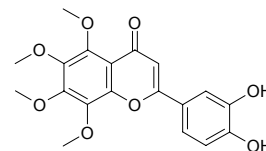
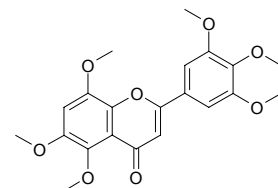


9501 1,2,3,3 α ,8,8 α -Hexahydro-2,2,8-trimethyl-5,6-azulene-dimethanol
 $C_{15}H_{24}O_2$ (236.36). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.



9502 2,3-O-(S)-Hexahydroxydiphenyl-D-glucopyranose
 $C_{20}H_{18}O_{14}$ (482.36). **Pharm:** Antioxidant (SOD-like activity, EC₅₀ = 166 μ mol/L, control Gallic acid, EC₅₀ = 31.7 μ mol/L, L-Ascorbic acid, EC₅₀ = 34.6 μ mol/L)^[3408]; antioxidant (DPPH free radical scavenger, EC₅₀ = 4.35 μ mol/L, control Gallic acid, EC₅₀ = 5.88 μ mol/L, L-Ascorbic acid, EC₅₀ = 6.25 μ mol/L)^[3408]. **Source:** AN MO LE *Phyllanthus emblica* (root), BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.010%fw)^[4695], HU TAO REN *Juglans regia*. **Ref:** 3065, 3408, 4695.

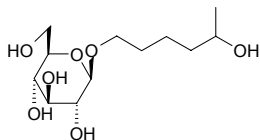


9503 2,3-O-Hexahydroxydiphenoyl-4,6-O-sanguisorboyl- (α/β)-glucoseC₄₁H₂₈O₂₇ (952.66). Source: SHEN SHENG XUAN GOU ZI *Rubus sanctus*.Ref: 3421.**9504 2 α ,3 α ,10 α ,13 α ,16 α ,17-Hexahydroxy-9 α -methyl-15-oxo-20-norkauran-19-oic acid (19,10)-lactone**C₂₀H₂₈O₈ (396.44). White amorphous solid, mp 150°C(dec), [α]_D²⁵ = +16.0° (c = 0.1, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.**9505 Hexahydroxytaxadiene**1 β ,2 α ,5 α ,9 α ,10 β ,13 α -Hexahydroxy-4(20),11-taxadiene C₂₀H₃₂O₆ (368.47). mp 120~121°C, [α]_D = -5.6° (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.**9506 2,3,4,2',4',6'-Hexamethoxychalcone**C₂₁H₂₄O₇ (388.42). Pale orange-yellow solid (CHCl₃), mp 174~176°C.Source: *Andrographis neesiana* (whole herb). Ref: 4357.**9507 3,5,6,7,3',4'-Hexamethoxyflavone**C₂₁H₂₂O₈ (402.40). Pale yellow amorphous solid, mp 179~180°C. Pharm: Cytotoxic inactive (*in vitro*, Col2, ED₅₀ > 20 μ g/mL; hTERT-RPE1, ED₅₀ > 20 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; KB, ED₅₀ > 20 μ g/mL; HUVEC, ED₅₀ > 20 μ g/mL; Lu1, ED₅₀ > 20 μ g/mL). Source: HUANG JING YE *Vitex negundo*. Ref: 4699.**9508 5,6,2',3',5',6'-Hexamethoxyflavone**C₂₁H₂₂O₈ (402.40). Yellow amorphous solid. Source: SI JI XIANG ROU GUO *Casimiroa tetrameria* (leaf). Ref: 5262.**9509 5,6,7,3',4',5'-Hexamethoxyflavone**C₂₁H₂₂O₈ (402.40). White needles (acetone). Pharm: Cytotoxic (HeLa, IC₅₀ = 42.9 μ g/mL, control Mitomycin C, IC₅₀ = 1.7 μ g/mL)^[4092]. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], LONG XU TENG *Bauhinia championii*, SHENG HONG JI *Ageratum conyzoides*, TUAN JI AI NA XIANG *Blumea glomerata*. Ref: 660, 4092, 4548.**9510 5,6,7,8,3',4'-Hexamethoxyflavone**C₁₉H₁₈O₈ (374.35). Source: JU PI *Citrus reticulata*. Ref: 2.**9511 5,6,8,3',4',5'-Hexamethoxyflavone**C₂₁H₂₂O₈ (402.40). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 660.**9512 Hexanal**[66-25-1] C₆H₁₂O (100.16). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], SHAN XING REN *Prunus armeniaca* var. *ansu*. Ref: 2, 660.

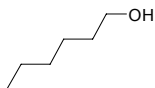
9513 Hexane-1,5-diol-1-O-β-D-glucopyranoside

$C_{12}H_{24}O_7$ (280.32). Amorphous powder, $[\alpha]_D^{21} = -19^\circ$ ($c = 0.4$, MeOH).

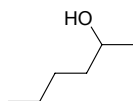
Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 3402.

**9514 Hexanol**

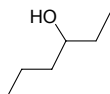
[111-27-3] $C_6H_{14}O$ (102.18). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2.

**9515 2-Hexanol**

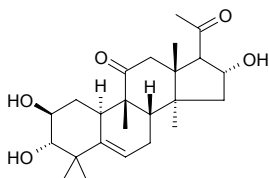
$C_6H_{14}O$ (102.18). Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], HONG HUA *Carthamus tinctorius*. Ref: 660.

**9516 3-Hexanol**

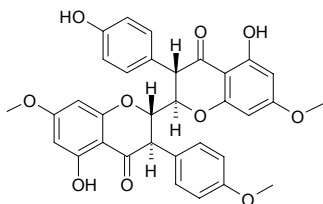
$C_6H_{14}O$ (102.18). Source: HONG HUA *Carthamus tinctorius*. Ref: 660.

**9517 Hexanorcucurbitacin F**

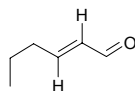
[96253-53-1] $C_{24}H_{36}O_5$ (404.55). Colorless needles (Me₂CO), mp 128~130°C, $[\alpha]_D^{28} = +140.2^\circ$ ($c = 0.180$, MeOH). Source: KU XUAN SHEN *Picria felterrae* (whole herb). Ref: 4853.

**9518 Hexaspermone C**

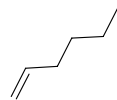
$C_{33}H_{28}O_{10}$ (584.59). Pharm: Antibacterial inactive (MDR *Staphylococcus aureus*: RN4220 strain, 64μg/mL, control Erythromycin, MIC = 128μg/mL; XU212 strain, 64μg/mL, control Tetracycline, MIC = 128μg/mL; SA-1199-B strain, 64μg/mL, control Norfloxacin, MIC = 32μg/mL). Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*, LIU ZI SAI JIN LIAN MU *Oureatea hexasperma*. Ref: 5372.

**9519 (E)-2-Hexenal**

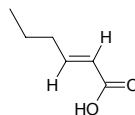
[6728-26-3] $C_6H_{10}O$ (98.15). Source: SHAN XING REN *Prunus armeniaca* var. *ansu*. Ref: 2.

**9520 1-Hexene**

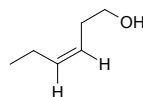
[592-41-6] C_6H_{12} (84.16). Source: JIN YIN HUA *Lonicera japonica*. Ref: 2.

**9521 trans-2-Hexenoic acid**

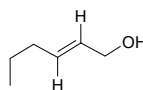
[13419-69-7] $C_6H_{10}O_2$ (114.15). mp 36~37°C, bp 217°C. Source: NIU BANG GEN *Arctium lappa*. Ref: 6.

**9522 β-Hexenol**

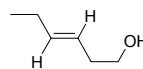
[928-96-1] $C_6H_{12}O$ (100.16). bp (*cis*-) 156~157°C. Pharm: Attractant for many plant-eating insects. Source: CI HUAI HUA *Robinia pseudoacacia*, PI PA YE *Eriobotrya japonica*, HUO XIANG *Agastache rugosus*. Ref: 6, 660, 660.

**9523 trans-2-Hexenol**

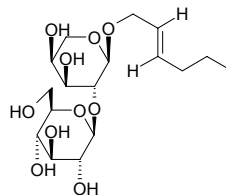
[928-95-0] $C_6H_{12}O$ (100.16). mp 158~160°C. Source: XING ZI *Prunus armeniaca*. Ref: 6.

**9524 γ-Hexenol**

trans-3-Hexen-1-ol [928-97-2] $C_6H_{12}O$ (100.16). bp 153~156°C. Source: PI PA YE *Eriobotrya japonica*, HUO XIANG *Agastache rugosus*. Ref: 6, 660.

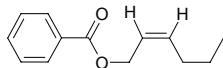
**9525 (E)-2-Hexenyl-α-L-arabinopyranosyl-(1→2)-β-D-glucopyranoside**

$C_{17}H_{30}O_{10}$ (394.42). Source: CHUAN DANG SHEN *Codonopsis tangshen*. Ref: 2, 660.

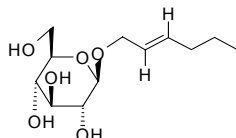


9526 2-Hexenyl benzoate

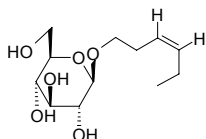
$C_{13}H_{16}O_2$ (204.27). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*].
Ref: 6.

**9527 (E)-2-Hexenyl-β-D-glucopyranoside**

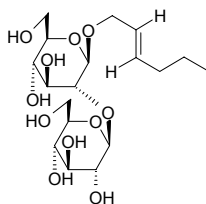
$C_{12}H_{22}O_6$ (262.31). Source: CHUAN DANG SHEN *Codonopsis tangshen*.
Ref: 2, 660.

**9528 (Z)-3-Hexenyl-β-D-glucopyranoside**

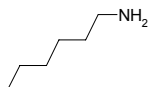
$C_{12}H_{22}O_6$ (262.31). Amorphous powder, RI(23, D) = -31°. Pharm: To induce expression of defense genes in uninfected leaves. Source: CHUAN DANG SHEN *Codonopsis tangshen*, JIN WU MAO SAO JU *Pertya glabrescens*, SHE XIANG CAO *Thymus vulgaris*. Ref: 2, 660, 2592.

**9529 (E)-2-Hexenyl-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside**

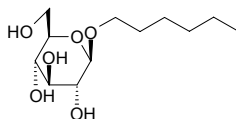
$C_{18}H_{32}O_{11}$ (424.45). Source: CHUAN DANG SHEN *Codonopsis tangshen*.
Ref: 2, 660.

**9530 Hexyl amine-1**

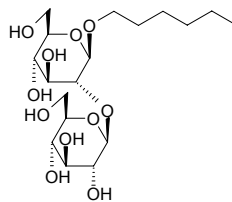
[111-26-2] $C_6H_{15}N$ (101.19). mp -19°C, bp 129-130°C/742mmHg. Source: MAI JIAO *Claviceps purpurea*. Ref: 6.

**9531 n-Hexyl-β-D-glucopyranoside**

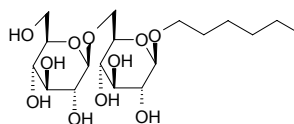
$C_{12}H_{24}O_6$ (264.32). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

**9532 Hexyl-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside**

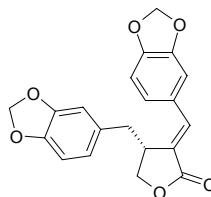
$C_{18}H_{34}O_{11}$ (426.47). Source: CHUAN DANG SHEN *Codonopsis tangshen*.
Ref: 2, 660.

**9533 Hexyl-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

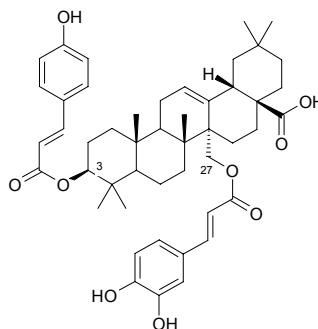
$C_{18}H_{34}O_{11}$ (426.47). Source: CHUAN DANG SHEN *Codonopsis tangshen*.
Ref: 2, 660.

**9534 (-)-(R,E)-Hibialactone**

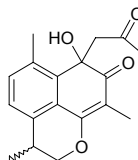
$C_{20}H_{16}O_6$ (352.35). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.00074%dw).
Ref: 4783.

**9535 Hibicusin**

$C_{48}H_{60}O_9$ (781.01). White powder, mp 211-213°C, $[\alpha]_D = +31.7^\circ$ ($c = 0.32$, MeOH). Pharm: Anti-HIV (H9 lymphocytic cells, inhibits replication, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) > 25 μg/mL); cytotoxic (hmn, A549 $EC_{50} = 16.4 \mu\text{g/mL}$, MCF7 $EC_{50} > 20 \mu\text{g/mL}$)^[2529].
Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

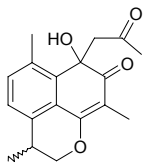
**9536 Hibicuslide A**

$C_{18}H_{20}O_4$ (300.36). Yellow syrup, $[\alpha]_D = +15^\circ$ ($c = 0.1$, MeOH). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

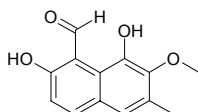


9537 Hibicuslide B

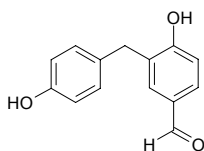
$C_{18}H_{20}O_4$ (300.36). Yellow syrup, $[\alpha]_D = +77.0^\circ$ ($c = 0.13$, MeOH). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**9538 Hibicuslide C**

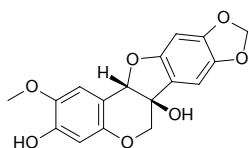
$C_{13}H_{12}O_4$ (232.24). Colorless oil. Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**9539 Hibicutaiwanin**

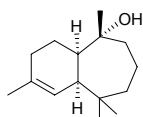
$C_{14}H_{12}O_3$ (228.25). Colorless oil. Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**9540 Hildecarpin**

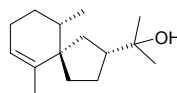
[99624-64-3] $C_{17}H_{14}O_7$ (330.30). Pharm: Insect antifeedant; antifungal. Source: XI SHI HUI MAO DOU *Tephrosia hildebrandtii*. Ref: 658.

**9541 Himachalol**

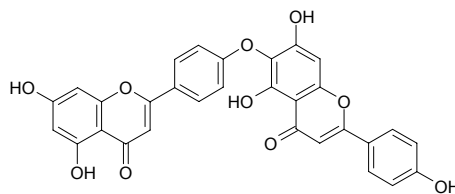
[1891-45-8] $C_{15}H_{26}O$ (222.37). White acicular crystals (ethanol), mp 67–68°C, $[\alpha]_D = +72.9^\circ$ ($c = 0.18$); colorless trapezoid crystals, mp 67°C. Pharm: Antispasmodic (ileum in gpg, jejunum in rbt, uterus in rat); smooth muscle relaxant (caused by acetylcholine, 5-HT, nicotine and BaCl₂); LD₅₀ (mus, orl) = 265mg/kg, (mus, ip) = 247mg/kg. Source: XUE SONG *Cedrus deodara*. Ref: 660, 661.

**9542 Hinesol**

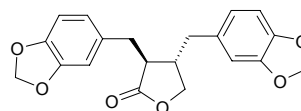
1(10)-Spirovetiven-11-ol [23811-08-7] $C_{15}H_{26}O$ (222.37). Crystals (MeOH), mp 59–60°C, $[\alpha]_D^{20} = -40.2^\circ$. Source: BEI CANG ZHU *Atractylodes chinensis* (dried rhizome: content = 3.42%^[5531]), CANG ZHU *Atractylodes lancea* (dried rhizome: content scope of 5 origins = 0.13%~1.94%, mean content = 0.71%^[5531]), GUAN CANG ZHU *Atractylodes japonica* (dried rhizome: content = 0.01%^[5531]). Ref: 2, 660, 1521, 5501, 5531.

**9543 Hinokiflavone**

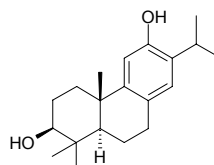
[19202-36-9] $C_{30}H_{18}O_{10}$ (538.47). mp 353–355°C (dec). Pharm: Cyclo-nucleotide phosphodiesterase inhibitor; anti-HIV (HIV-RT inhibitor). Source: BAI SHU YE *Cupressus funebris*, CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], CUI YUN CAO *Selaginella uncinata* (whole herb), DU SONG SHI *Juniperus rigida*, HUI⁽⁴⁾ YE *Sobina chinensis*, JI MAO SONG *Podocarpus imbricatus*, JUAN BAI *Selaginella tamariscina*, LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], LIU SHAN *Cryptomeria fortunei*, LUO HAN SONG SHI *Podocarpus macrophyllus*, LUO HAN SONG YE *Podocarpus macrophyllus*, SHAN ZHU ZI *Garcinia multiflora*, SU TIE SHU GUO *Cycas revoluta*. Ref: 6, 580, 658, 2268, 4398.

**9544 (+)-Hinokinin**

$C_{20}H_{18}O_6$ (354.36). $[\alpha]_D^{25} = +41.5^\circ$ ($c = 0.20$, CHCl₃). Pharm: Cytotoxic (P₃₈₈, ED₅₀ = 1.54μg/mL, control Mithramycin, ED₅₀ = 0.08μg/mL; HT29, ED₅₀ = 4.61μg/mL, Mithramycin, ED₅₀ = 0.07μg/mL; A549, ED₅₀ = 8.01μg/mL, Mithramycin, ED₅₀ = 0.06μg/mL)^[4947]. Source: E SHEN *Anthriscus sylvestris*, PI ZHEN XING YAO HUA *Wikstroemia lanceolata* (stem and root). Ref: 4947, 5499.

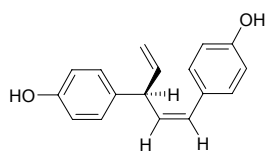
**9545 Hinokiol**

$C_{20}H_{30}O_2$ (302.46). mp 233–235°C, $[\alpha]_D^{22} = +72.5^\circ$ ($c = 0.46$, CHCl₃). Source: DAN HUANG XIANG CHA CAI *Isodon flavidus*. Ref: 4067.

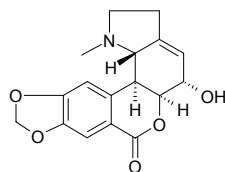


9546 cis-Hinokiresinol

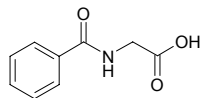
Nyasol C₁₇H₁₆O₂ (252.32). [α]_D²¹ = +137.0° (*c* = 1.40, Me₂CO). **Pharm:** cAMP phosphodiesterase inhibitor; cytotoxic (*in vitro*, HO-8910, IC₅₀ = (30.6±1.2)μmol/L, Vincristine, IC₅₀ = (25.1±1.9)μmol/L; Bel7405, IC₅₀ = (29.4±2.9)μmol/L, Vincristine, IC₅₀ = (31.4±3.4)μmol/L)^[4975]; cytotoxic (*in vitro*, HOG.R5, CC₅₀ = 15.6μg/mL (58.1μmol/L), control Ellipticine, HOG.R5, IC₅₀ = 0.02μg/mL (0.08μmol/L))^[3009]; cytotoxic inactive (KB, Col2, LNCaP, Lu1, HUVEC, IC₅₀ > 20μg/mL)^[3009]; anti-HIV (IC₅₀ = 11.7μg/mL (46.4μmol/L))^[3009]; antifungal (1~50μg/mL, inhibits mycelian growth of *Colletotrichum orbiculare*, *Phytophthora capsici*, *Pythium ultimum*, *Rhizoctonia solani*, *Cladosporium cucumerinum*, did not affect the growth of bacteria and yeast)^[3476]. **Source:** GE BI TIAN MEN *Asparagus gobicus* (root), RI BEN BIAN BAI *Chamaecyparis obtusa*, TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.00011%^[3009]), ZHAI YE NAN YANG SHAN *Araucaria angustifolia*, ZHI MU *Anemarrhena asphodeloides*. **Ref:** 658, 3009, 3476, 4975.

**9547 Hippeastrine**

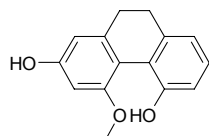
Trisphaerine; Trispherine; (+)-Hippeastrine [477-17-8] C₁₇H₁₇NO₅ (315.33). mp 214~215°C, [α]_D²² = +160° (*c* = 0.3, CHCl₃). **Pharm:** Insect antifeedant (pento-larva of *Euremahecabae mandarina*); antibacterial (*Staphylococcus aureus*, MIC = 125μg/mL)^[3829]; antifungal (*Candida albicans*, IZD = 25mm, MIC = 125μg/mL)^[3829]. **Source:** GU TING HUA *Amaryllis belladonna* (bulb), JUN ZI LAN *Clivia miniata*, SU MEN DA LA WEN SHU LAN *Crinum amabile*, XI NAN WEN SHU LAN *Crinum latifolium*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], HUANG SI TAN BAO *Sternbergia lutea*. **Ref:** 6, 658, 3829.

**9548 Hippuric acid**

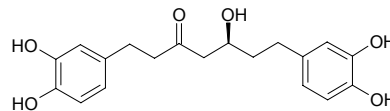
[495-69-2] C₉H₉NO₃ (179.18). mp 187°C. **Source:** REN NIAO *Homo sapiens*. **Ref:** 6.

**9549 Hircinol**

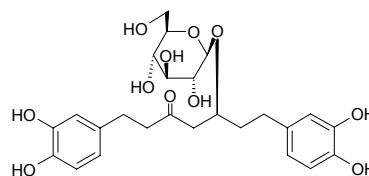
[41060-05-3] C₁₅H₁₄O₃ (242.28). **Pharm:** Antifungal (*Aspergillus niger*); inhibits fermentation of indole-3-acetic acid (IAA). **Source:** YUAN SHU YU *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*]. **Ref:** 658.

**9550 Hirsutanonol**

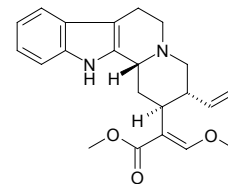
[91998-02-6] C₁₉H₂₂O₆ (346.38). **Pharm:** Antioxidant (superoxide radical scavenger, IC₅₀ = 3.0μmol/L; DPPH scavenger, IC₅₀ = 3.1μmol/L)^[4535]. **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**9551 Hirsutanonol-5-O-β-D-glucopyranoside**

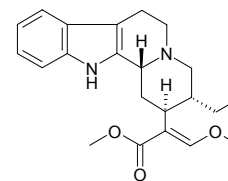
C₂₅H₃₂O₁₁ (508.53). **Pharm:** Antioxidant (3.125μg/mL, superoxide radical scavenging activity = 3.4%, control Urcumin 16.1%; 6.25μg/mL, DPPH radical scavenging activity = 3.9%, control Urcumin 50.0%). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**9552 Hirsuteine**

[35467-43-7] C₂₂H₂₆N₂O₃ (366.46). mp 92~94°C. **Source:** BI LU GOU TENG *Uncaria tomentosa*, DUO MAI GOU TENG *Uncaria nervosa*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 2, 660, 1521, 5341.

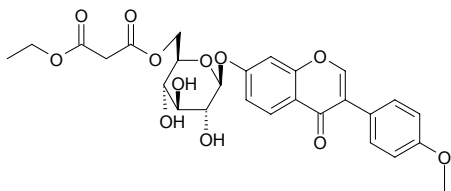
**9553 Hirsutine**

[7729-23-9] C₂₂H₂₈N₂O₃ (368.48). Crystals (Et₂O), mp 101°C, [α]_D²³ = +68.6° (*c* = 0.32, CHCl₃). **Pharm:** Calcium antagonist (anesthetic rat and dog, hypotensor and vasodilator); antiarrhythmic (mus, arrhythmia induced by aconitine, gpg, arrhythmia induced by ouabain); CNS depressant; LD₅₀ (mus, iv) = 35mg/kg, LD₅₀ (mus, ip) = 110mg/kg. **Source:** BAI GOU TENG *Uncaria sessilifrutus* [Syn. *Nauclea sessilifrutus*], BI LU GOU TENG *Uncaria tomentosa*, DUO MAI GOU TENG *Uncaria nervosa*, FENG XIANG SHU YE *Cephalanthus occidentalis*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, XIA GOU TENG *Uncaria attenuata*, *Uncaria kunstleri*. **Ref:** 2, 6, 1688, 1689, 1521, 5341.

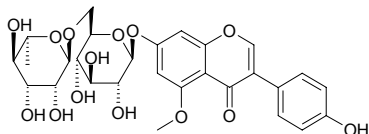


9554 Hirsutissimide A

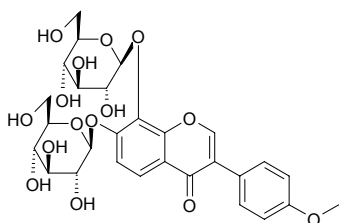
Formononetin 7-*O*- β -D-(6'-ethylmalonyl)-glucopyranoside C₂₇H₂₈O₁₂ (544.52). White powder, $[\alpha]_D^{25} = -26.3^\circ$ ($c = 0.13$, MeOH:H₂O = 1:0.5). Source: FENG CHENG JI XUE TENG *Millettia nitida* var. *hirsutissima* (stem). Ref: 4455.

**9555 Hirsutissimide B**

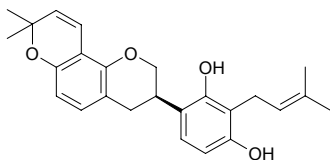
5-*O*-Methyl genistein 7-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₂₈H₃₂O₁₄ (592.56). White powder, $[\alpha]_D^{25} = -73.3^\circ$ ($c = 0.19$, MeOH). Source: FENG CHENG JI XUE TENG *Millettia nitida* var. *hirsutissima* (stem). Ref: 4455.

**9556 Hirsutissimide C**

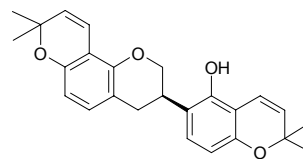
Retusin 7,8-di-*O*- β -D-glucopyranoside C₂₈H₃₂O₁₅ (608.56). White powder, $[\alpha]_D^{25} = -38.0^\circ$ ($c = 0.14$, MeOH:H₂O = 1:1). Source: FENG CHENG JI XUE TENG *Millettia nitida* var. *hirsutissima* (stem). Ref: 4455.

**9557 Hispaglabridin A**

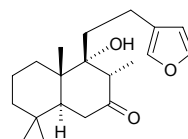
[68978-03-0] C₂₅H₂₈O₄ (392.50). Crystals (cyclohexane), mp 132~133°C, $[\alpha]_D^{25} = -8.23^\circ$ ($c = 2.43$, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus* ATCC13709, MIC = 3.12 μ g/kg; *Mycobacterium smegmatis* ATCC607, MIC = 3.12mg/kg). Source: GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 658, 1521.

**9558 Hispaglabridin B**

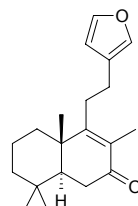
[68978-02-9] C₂₅H₂₆O₄ (390.48). Amorphous powder, $[\alpha]_D^{25} = -25.7^\circ$ ($c = 2.35$, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus* ATCC13709, MIC = 6.25 μ g/mL; *Mycobacterium smegmatis* ATCC607, MIC = 3.12 μ g/mL). Source: OU YA GAN CAO *Glycyrrhiza glabra* var. *typica*, GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2, 658, 1521.

**9559 Hispanolone**

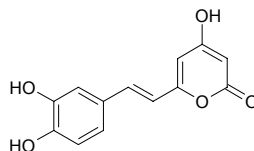
C₂₀H₃₀O₃ (318.46). Crystals. Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. Ref: 660, 2499, 4493.

**9560 Hispanone**

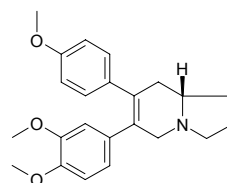
C₂₀H₂₈O₂ (300.44). Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4493, 4534.

**9561 Hispidin**

C₁₃H₁₀O₅ (246.22). Pharm: Chymotrypsin inhibitor inactive (20.0 μ mol/L, InRt = (1.4 \pm 0.3)%); trypsin inhibitor inactive (20.0 μ mol/L, InRt = (1.0 \pm 0.2)%); elastase inhibitor inactive (20.0 μ mol/L, InRt = (3.1 \pm 1.3)%); PEP inhibitor (20.0 μ mol/L, InRt = (61.3 \pm 7.0)%); TACE inhibitor inactive (20.0 μ mol/L, InRt = (1.1 \pm 0.1)%); BACE1 inhibitor (20.0 μ mol/L, InRt = (63.4 \pm 3.1)%). Source: LIE TI MU CENG KONG JUN *Phellinus linteus*. Ref: 4934.

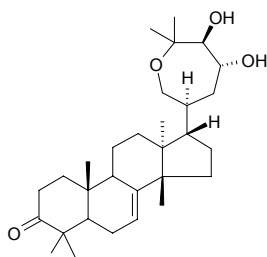
**9562 Hispidine**

C₂₃H₂₇NO₃ (365.48). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

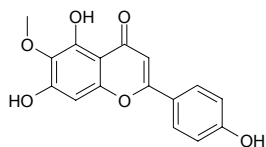


9563 Hispidone

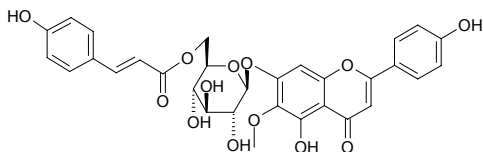
[73891-72-2] C₃₀H₄₈O₄ (472.71). Source: CHANG YE KUAN MU *Eurycoma longifolia*. Ref: 1521, 4556.

**9564 Hispidulin**

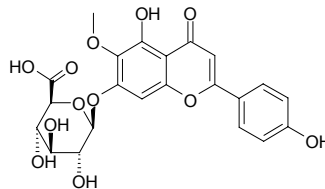
Dinatin [1447-88-7] C₁₆H₁₂O₆ (300.27). Pale yellow powder, mp 287~289°C, mp 281~282°C, mp 291~292°C, mp 304~305°C. Pharm: Antihepatotoxin; antitussive; cytotoxic (KB *in vitro*, ED₅₀ = 96µg/mL); antitussive (dispels phlegm); platelet aggregation inhibitor; binding activity to benzodiazepine receptor (IC₅₀ = (1.3±0.2)µmol/L, control Diazepam, IC₅₀ = (0.05±0.01)µmol/L)^[5378]; PFTase inhibitor (100µg/mL, InRt = 75%)^[5378]; cytotoxic (strongly inhibits growth of ZR-75-1 cells, GI₅₀ = 1.2µg/mL)^[5378]; cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20µg/mL)^[5378]; angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10µg)^[5378]. Source: AI YE *Artemisia argyi*, CHANG GUAN JIA MO LI *Clerodendron indicum*, CHOU MO LI *Clerodendron fragrans*, DUI XIN JU *Helenium autumnale*, LI ZHI CAO *Salvia plebeia*, SU DA QI GAN JU *Citrus sudachii*, XIU MAO DI HUANG *Digitalis ferruginea*, YA PIAN *Papaver somniferum*, YI WA JU *Iva frutescens*, YIN DU JIA JING JIE *Nepeta hindostana*, ZI MEI SHU *Millingtonia hortensis*, MAO HUA MAO DI HUANG *Digitalis lanata*, CU YING MAO TUN CAO *Ambrosia hispida*, AI YE HUANG QIN *Scutellaria przewalskii*, FU CHUI FE LAO JU *Flourensia cernua*, YAO YONG DAN SHEN YE *Salvia officinalis*, *Warionia saharae*. Ref: 5, 658, 1521, 5366, 5378, 5399.

**9565 Hispidulin 7-(6-E-p-coumaroyl-β-D-glucopyranoside)**

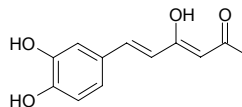
C₃₁H₂₈O₁₃ (608.56). Amorphous yellowish powder, mp 288~289°C, [α]_D²⁵ = -46.4° (c = 0.5, CHCl₃). Source: GU JING CAO *Eriocaulon buergerianum*. Ref: 1923.

**9566 Hispidulin-7-O-glucuronide**

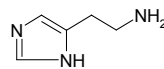
C₂₂H₂₀O₁₂ (476.40). mp 220~222°C. Source: JIN SI TAO GUO SHI *Hypericum chinense*. Ref: 6.

**9567 Hispolon**

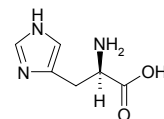
[173933-40-9] C₁₂H₁₂O₄ (220.23). Pharm: Cytotoxic (*in vitro*, A549, IC₅₀ = 0.183µmol/L; BGC823, IC₅₀ = 0.205µmol/L; MCF7, IC₅₀ = 0.025µmol/L; Bel7402, IC₅₀ = 0.038µmol/L; Ketr3, IC₅₀ = 0.206µmol/L; HCT8, IC₅₀ = 0.199µmol/L; control Topotecan, A549, IC₅₀ = 0.0032µmol/L; BGC823, IC₅₀ = 0.0043µmol/L; MCF7, IC₅₀ = 0.0018µmol/L; Bel7402, IC₅₀ = 0.0012µmol/L; Ketr3, IC₅₀ = 0.0049µmol/L; HCT8, IC₅₀ = 0.0015µmol/L)^[4747]. Source: CU YING MAO XIAN KONG JUN *Inonotus hispidus*, SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0022%dw)^[4747]. Ref: 1521, 4747.

**9568 Histamine**

[51-45-6] C₅H₉N₃ (111.15). mp 75~80°C, mp 86°C, bp 167°C/0.8mmHg. Pharm: An important medium of inflammation and anaphylaxis; bronchial smooth muscle stimulant; irritant; vasodilator. Source: BAI QU CAI *Chelidonium majus*, BO CAI *Spinacia oleracea*, CHUN *Brasenia schreberi*, FENG DU *Apis cerana*, LI YU *Cyprinus carpio*, MAI JIAO *Claviceps purpurea*, MAN LI YU *Anguilla japonica*, MIAN HUA *Gossypium herbaceum*, QIE YE *Solanum melongena*, SAN XIAO CAO *Trifolium repens*, SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (dried root: content = 0.103%)^[5508], WU GONG *Scolopendra subspinipes mutilans* (dried body: mean content of 4 origins = %0.044)^[5508], XIANG JIAO *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], YE DU ZHONG *Euonymus grandiflorus*, YI ZHU QIAN MA *Urtica dioica*, *Sarracenia* sp., *Drosera* sp., *Nepenthes* sp. Ref: 6, 658, 5508.

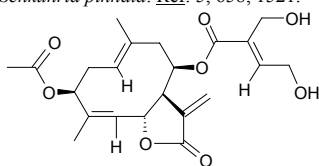
**9569 L-Histidine**

[71-00-1] C₆H₉N₃O₂ (155.16). Pharm: An essential amino acid for children; promotes ulcer healing. Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.22%~2.33%, mean content = 0.88%)^[5521], HU LU BA *Trigonella foenum-graecum*^[658], YI YE JIA FAN LV *Pseudostellaria heterophylla* (tuberoid: mean content of 5 origins = 0.0456%)^[5508]. Ref: 658, 5508, 5521.

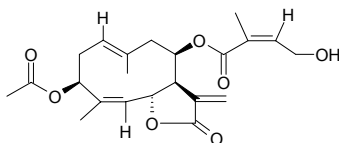


9570 Hiyodorilactone A

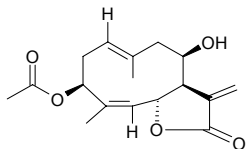
Schkuhrin I; Eucannabinolide; Hydroxychromolaenide [38458-58-1]
 $C_{22}H_{28}O_8$ (420.46). Gum or yellow oil, $[\alpha]_D = -121^\circ$ ($CHCl_3$). **Pharm:**
 Antibacterial (gram-positive bacteria); cytotoxic (KB); insect antifeedant.
Source: DA MA YE ZE LAN *Eupatorium cannabinum*, KU YE DAO ZE LAN
Eupatorium sachalinense [Syn. *Eupatorium glehni*], SHI KU JU
Schkuhria pinnata. **Ref:** 5, 658, 1521.

**9571 Hiyodorilactone B**

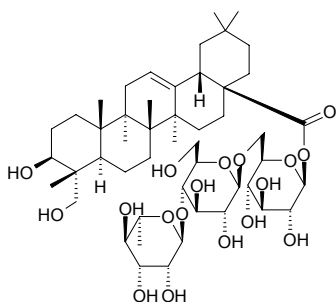
[68539-58-2] $C_{22}H_{28}O_7$ (404.46). Yellow oil, $[\alpha]_D^{24} = -140^\circ$ ($c = 0.67$,
 ethanol). **Pharm:** Antineoplastic. **Source:** KU YE DAO ZE LAN *Eupatorium*
sachalinense [Syn. *Eupatorium glehni*]. **Ref:** 661, 1521.

**9572 Hiyodorilactone C**

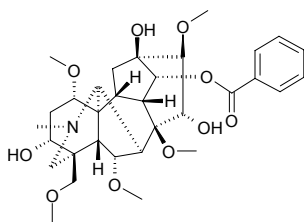
[68628-57-9] $C_{17}H_{22}O_5$ (306.36). Oil, $[\alpha]_D^{24} = -109^\circ$ ($c = 0.91$, ethanol).
Pharm: Antineoplastic. **Source:** KU YE DAO ZE LAN *Eupatorium*
sachalinense [Syn. *Eupatorium glehni*]. **Ref:** 661, 1521.

**9573 HN Saponin H**

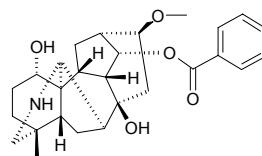
$C_{48}H_{78}O_{18}$ (943.15). **Source:** XI ZANG TIE XIAN LIAN *Clematis tibetana*
 (aerial parts). **Ref:** 3530.

**9574 Hokbusine A**

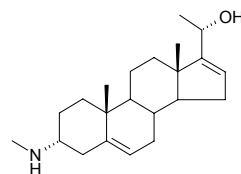
$C_{32}H_{45}NO_{10}$ (603.72). **Source:** WU TOU *Aconitum carmichaeli*. **Ref:** 660.

**9575 Hokbusine B**

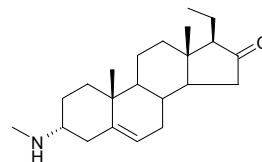
$C_{27}H_{35}NO_5$ (453.58). **Source:** WU TOU *Aconitum carmichaeli*. **Ref:** 660.

**9576 Holadysamine**

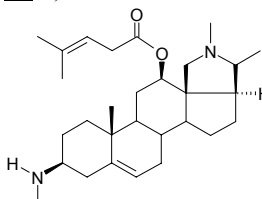
$C_{22}H_{35}NO$ (329.53). Crystals (hexane), mp $173^\circ C$, $[\alpha]_D = -78^\circ$ ($c = 1$,
 $CHCl_3$). **Source:** ZHI XIE MU PI *Holarrhena antiodysenterica*. **Ref:** 6, 1521.

**9577 Holadysine**

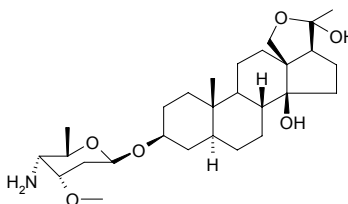
3 α -(Methylamino)pregn-5-en-16-one $C_{22}H_{35}NO$ (329.53). Crystals (hexane),
 mp $120^\circ C$, $[\alpha]_D = -199^\circ$ ($c = 1.2$, $CHCl_3$). **Source:** ZHI XIE MU PI
Holarrhena antiodysenterica. **Ref:** 6, 1521.

**9578 Holarfrine**

Holarrhesine [70866-29-4] $C_{29}H_{46}N_2O_2$ (454.70). Platelets (Me_2CO), mp
 $116-117^\circ C$, $[\alpha]_D^{20} = -19.1^\circ$ ($c = 0.93$, $CHCl_3$). **Source:** ZHI XIE MU PI
Holarrhena antiodysenterica, FEI ZHOU ZHI XIE MU *Holarrhena africana*.
Ref: 6, 1521.

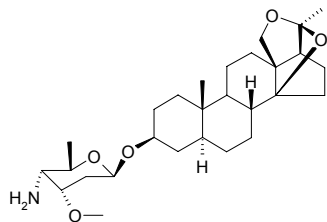
**9579 Holantosine A**

[28719-38-2] $C_{28}H_{47}NO_6$ (493.69). **Source:** ZHI XIE MU PI *Holarrhena*
antiodysenterica. **Ref:** 6, 1521.

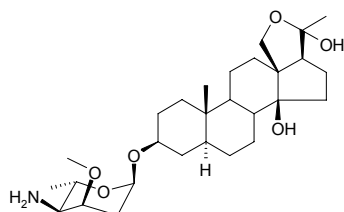


9580 Holantosine B

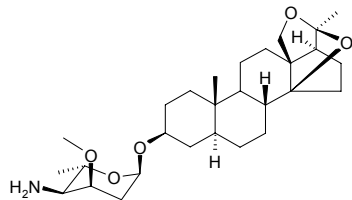
[28719-39-3] $C_{28}H_{45}NO_5$ (475.67). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 1521.

**9581 Holantosine C**

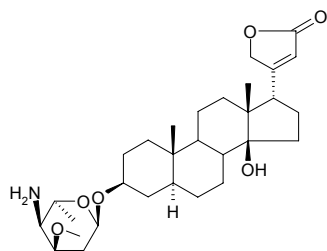
[34312-24-8] $C_{28}H_{47}NO_6$ (493.69). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 1521.

**9582 Holantosine D**

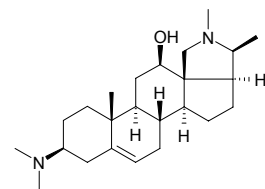
[33662-04-3] $C_{28}H_{45}NO_5$ (475.67). $[\alpha]_D = -67^\circ$ ($c = 6$, $CHCl_3$). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 1521.

**9583 Holarosine A**

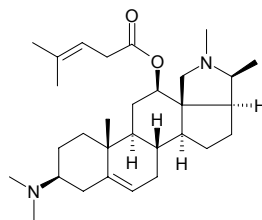
[34303-94-1] $C_{30}H_{47}NO_6$ (517.71). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 1521.

**9584 Holarrhenine**

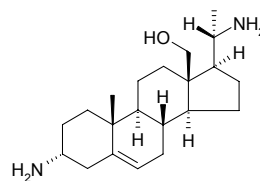
12 β -Hydroxyconessine [561-22-8] $C_{24}H_{40}N_2O$ (372.60). Needles (EtOAc), mp 197~198°C, $[\alpha]_D = -7.1^\circ$ ($CHCl_3$). Source: ZHI XIE MU PI *Holarrhena antidysenterica*, GANG GUO HE ZHI XIE MU *Holarrhena congolensis*, WEN ROU ZHI XIE MU *Holarrhena mitis*. Ref: 6, 1521.

**9585 Holarrhetine**

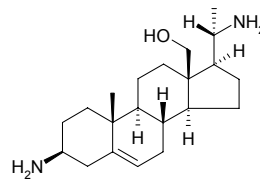
$C_{30}H_{48}N_2O_2$ (468.73). mp 74~75°C, $[\alpha]_D = -4.6^\circ$ ($c = 1.12$, EtOH), $[\alpha]_D = -14.9^\circ$ ($c = 1.12$, $CHCl_3$). Source: ZHI XIE MU PI *Holarrhena antidysenterica*, FEI ZHOU ZHI XIE MU *Holarrhena africana*. Ref: 6, 1521.

**9586 Holarrhidine**

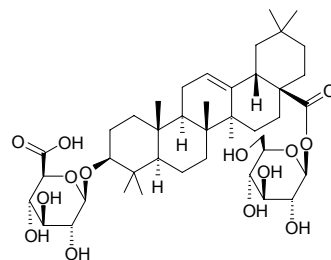
$C_{21}H_{36}N_2O$ (332.53). mp 180~181°C, $[\alpha]_D = -23^\circ$ ($CHCl_3$). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 1521.

**9587 Holarrhimine**

[468-31-5] $C_{21}H_{36}N_2O$ (332.53). mp 183°C, $[\alpha]_D = -14^\circ$ ($CHCl_3$). Source: ZHI XIE MU PI *Holarrhena antidysenterica*, WEN ROU ZHI XIE MU *Holarrhena mitis*, TUI RE ZHI XIE MU *Holarrhena febrifuga*. Ref: 6, 1521.

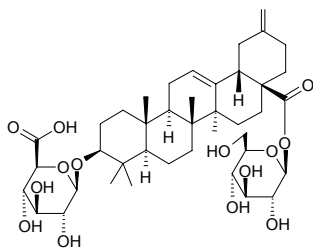
**9588 Hollow alternanthera saponin A**

Calendula officinalis Glycoside D₂. Momordin IIb [51415-02-2] $C_{42}H_{66}O_{14}$ (794.99). White amorphous powder, mp 218~220°C. Source: JIN ZHAN JU *Calendula officinalis* (flower), KONG XIN XIAN *Alternanthera philoxeroides*, LUO KUI HUA *Basella rubra* (aerial parts). Ref: 700, 3544, 3551.

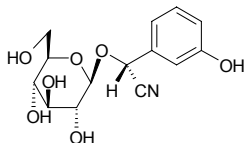


9589 Hollow alternanthera saponin D

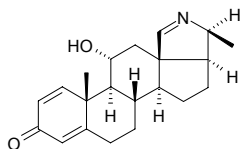
$C_{41}H_{62}O_{14}$ (778.94). White amorphous powder, mp 311~312°C. **Pharm:** Molluscicide (*Oncomelania*). **Source:** KONG XIN XIAN *Alternanthera philoxeroides*. **Ref:** 700.

**9590 Holocalin**

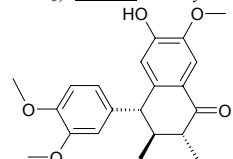
$C_{14}H_{17}NO_7$ (311.29). **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μ mol/L, InRt = (31~60)%, 10 μ mol/L, InRt = (31~60)%, 100 μ mol/L, InRt = (31~60)%, 1mmol/L, InRt > 61%; *Raphanus sativus*, 1 μ mol/L, InRt = (10~30)%, 10 μ mol/L, InRt = (10~30)%, 100 μ mol/L, InRt = (31~60)%, 1mmol/L, InRt > 61%; *Allium cepa*, 1 μ mol/L, StRt or InRt < 10%, 10 μ mol/L, StRt or InRt < 10%, 100 μ mol/L, StRt or InRt < 10%, 1mmol/L, InRt = (31~60)%). **Source:** XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 5217.

**9591 Holonamine**

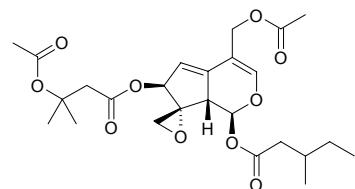
$C_{21}H_{27}NO_2$ (325.45). mp 257~259°C, $[\alpha]_D^{21} = -14.8^\circ$ ($c = 1.1$, MeOH). **Source:** ZHI XIE MU PI *Holarrena antidysenterica*. **Ref:** 6, 1521.

**9592 (+)-Holostylone**

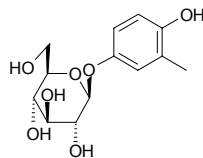
(7*R*,8*R*,8'*S*)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7-cyclolignan-7-one $C_{21}H_{24}O_5$ (356.42). Amorphous yellow solid, $[\alpha]_D^{25} = -27.4^\circ$ ($c = 0.31$, $CHCl_3$). **Source:** *Holostylis reniformis* (root). **Ref:** 3784.

**9593 1-Homoacevaltrate**

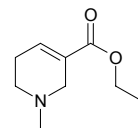
$C_{25}H_{34}O_{10}$ (494.54). Oil, $[\alpha]_D^{24} = +175.9^\circ$ ($c = 0.01$, MeOH). **Source:** ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000007%dw). **Ref:** 4672.

**9594 Homoarbutin**

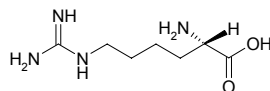
[25712-94-1] $C_{13}H_{18}O_7$ (286.28). mp 192~193°C, $[\alpha]_D^{21} = -79.2^\circ$. **Pharm:** Cytotoxic (P₃₈₈). **Source:** DA LI LU TI CAO *Pyrola forrestiana* (whole herb: content = 0.092%)^[5508], HONG HUA LU TI CAO *Pyrola incarnata*, LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*] (whole herb: mean content = 0.102%)^[5508], PU TONG LU TI CAO *Pyrola decorata* (whole herb: content = 0.063%)^[5508], RI BEN LU TI CAO *Pyrola japonica*, XI ZANG LU TI CAO *Pyrola calliantha* var. *tibetana* (whole herb: content = 0.075%)^[5508], YUAN YE LU TI CAO *Pyrola rotundifolia*, ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 0.061%)^[5508], ZI BEI LU TI CAO *Pyrola atropurpurea* (whole herb: content = 0.0051%)^[5508]. **Ref:** 6, 660, 1562, 5508.

**9595 Homoarecoline**

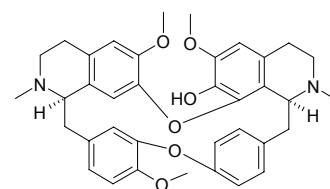
[28125-84-0] $C_9H_{15}NO_2$ (169.23). **Source:** BING LANG *Areca catechu*. **Ref:** 2.

**9596 L-Homoarginine**

[156-86-5] $C_7H_{16}N_4O_2$ (188.23). **Pharm:** Antibacterial (*Streptococcus* sp. and *Bacillus coli*); antifungal (*Candida albicans*); germination inhibitor; toxin (mus and some insects). **Source:** BIAN JIA SHAN LI DOU *Lathyrus cicera*, CAO XIANG WAN DOU *Lathyrus sativus*, *Lotus helleri*. **Ref:** 658, 1521.

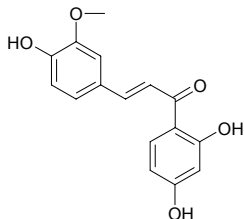
**9597 Homoaromoline**

O-Methylaromoline; Homoaromoline; Thalrugosamine; Homo-thalicrine; *N*-Methyldaphnandrine [17132-74-0] $C_7H_{40}N_2O_6$ (608.74). Crystals (MeOH), mp 235~237°C, $[\alpha]_D^{19} = +409^\circ$ ($CHCl_3$); mp 238~240°C, mp 235~236°C (dec). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 100 μ g/mL); antifungal (*Candida albicans*, MIC = 1000 μ g/mL); antihypertensive (anesthetic dog, 1~4mg, venae femoralis injection, blood pressure is lowered by 2.67kPa); muscle relaxant (animals, methyl iodide salt). **Source:** BAI YAO ZI *Stephania cepharantha*, YIN BU HUAN *Cyclea barbata*, TOU MING TANG SONG CAO *Thalictrum lucidum*, YAN GUO CAO *Thalictrum thunbergii*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*, ZHI LI QIAN JIN TENG *Stephania erecta*, *Albertisia papuana*, *Pycnarrhena longifolia*. **Ref:** 6, 658, 1311, 1521.

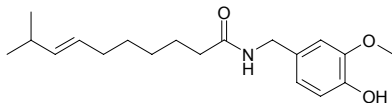


9598 Homobutein

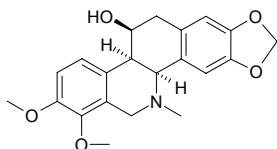
$C_{16}H_{14}O_5$ (286.29). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (15.0 \pm 2.8) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (16.1 \pm 2.1) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.003) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), DI XIA CHE ZHOU CAO *Trifolium subterraneum*, GUAN MU ZHUANG CHE ZHOU CAO *Trifolium fruticosum*, *Iryanthera polyneura*, *Acacia* spp. **Ref:** 1521, 3879.

**9599 Homocapsaicin**

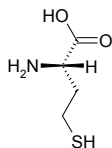
$C_{19}H_{29}NO_3$ (319.45). **Source:** HONG HAI JIAO *Capsicum annum*. **Ref:** 660.

**9600 Homochelidonine**

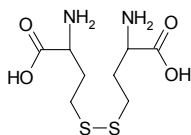
α -Homochelidonine [476-33-5] $C_{21}H_{23}NO_5$ (369.42). mp 169~170°C, mp 182°C, mp 192~193.5°C, $[\alpha]_D = +116^\circ$ (CHCl₃). **Source:** BAI QU CAI *Chelidonium majus*. **Ref:** 6, 1521.

**9601 L-Homocysteine**

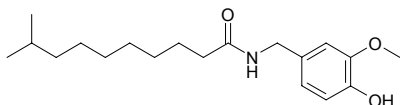
[6027-13-0] $C_4H_9NO_2S$ (135.19). **Pharm:** Flavorant. **Source:** BO CAI *Spinacia oleracea*. **Ref:** 658.

**9602 Homocystine**

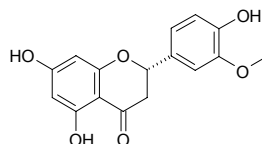
$C_8H_{16}N_2O_4S_2$ (268.36). mp L(+) 281~284°C (dec), D(-) 281~284°C (dec), (DL) 260~265°C (dec). **Source:** MO GU *Agaricus campestris*. **Ref:** 6.

**9603 Homodihydrocapsaicin**

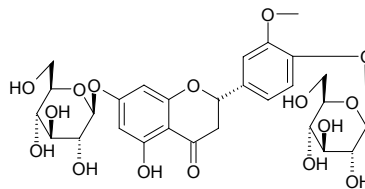
$C_{19}H_{21}NO_3$ (321.46). **Source:** HONG HAI JIAO *Capsicum annum*. **Ref:** 660.

**9604 Homoeriodictyol**

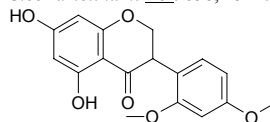
3'-O-Methyl eriodictyol; Eriodictyonone [446-71-9] $C_{16}H_{14}O_6$ (302.29). Crystals (70% acetic acid), high vacuum (0.003~0.050mm); 190~195°C sublimes as acicular crystals; diluting ethanol yield lamellar crystals; 225°C (dec, 100°C dried in vacuum), $[\alpha]_D^{20} = -28^\circ$ (ethanol). **Pharm:** Platelet aggregation inhibitor (50 $\mu\text{mol/L}$, InRt = 17%; 100 $\mu\text{mol/L}$, InRt = 50%)^[5171]; Diuretic (rbt); insect antifeedant (*Schizaphis graminum* and *Myzus persicae*). **Source:** HU JI SHENG *Viscum coloratum*, LENG ZHI HU JI SHENG *Viscum angulatum* (whole plant: yield = 0.00074%dw)^[4626], MI HUA SHI HU *Dendrobium densiflorum* (stem), SI BO LI YA AI JU *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], TIAN YE HAO *Artemisia campestris*. **Ref:** 661, 1434, 1521, 4626, 5171.

**9605 (2S)-Homoeriodictyol 7,4'-di-O-β-D-glucopyranoside**

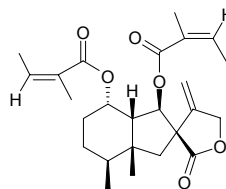
$C_{28}H_{34}O_{16}$ (626.57). Pale yellow amorphous powder. **Pharm:** Antioxidant (hydroxyl radical, $IC_{50} = 0.21 \text{ mmol/L}$, control EGCG, $IC_{50} = 0.58 \text{ mmol/L}$; superoxide anion, $IC_{50} = 0.39 \text{ mmol/L}$, EGCG, $IC_{50} = 0.53 \text{ mmol/L}$). **Source:** HU JI SHENG *Viscum coloratum* (branche and leaf: yield = 0.0015%dw). **Ref:** 920.

**9606 Homoferreirin**

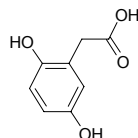
[482-01-9] $C_{17}H_{16}O_6$ (316.31). Rectangular plates (C₆H₆-petroleum ether or MeOH aq.), mp 168~169°C. **Pharm:** Antifungal. **Source:** HUI HUI DOU *Cicer arietinum*. **Ref:** 658, 1521.

**9607 Homofukinolide**

[41059-96-5] $C_{25}H_{34}O_6$ (430.55). Crystals (petroleum ether), mp 184~186°C, $[\alpha]_D^{22} = -127^\circ$ (c = 1, CHCl₃). **Source:** FENG DOU CAI *Petasites japonicus*. **Ref:** 6, 1521.

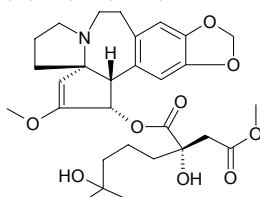
**9608 Homogentisic acid**

(2,5-Dihydroxyphenyl)acetic acid; Alcapton [451-13-8] $C_8H_8O_4$ (168.15). **Source:** BAN XIA *Pinellia ternata*. **Ref:** 2, 1521.

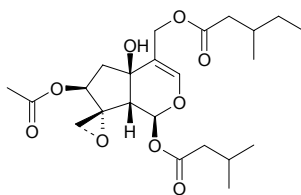


9609 Homoharringtonine

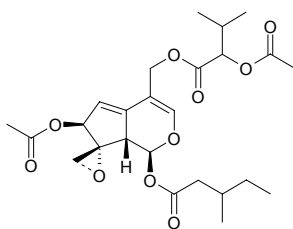
[26833-87-4] $C_{29}H_{39}NO_9$ (545.64). mp 144~146°C, $[\alpha]_D = -119^\circ$ ($c = 0.96$, $CHCl_3$). **Pharm:** Antineoplastic (curative for nonlymphatic leukemia, mus lymphatic leukemia, HeLa, L₁₂₁₀ cells and colon carcinoma). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*] (branchlet and bark: mean content of 2 samples = 0.041%^[5508]), HE GUO CU FEI *Cephalotaxus drupacea*, RI BEN CU FEI *Cephalotaxus harringtonia*, SAN JIAN SHAN *Cephalotaxus fortunei* (branchlet and bark: mean content of 2 origins = 0.070%^[5508]), ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 2, 4, 658, 660, 1521, 5508.

**9610 11-Homohydroxydidrovaltrate**

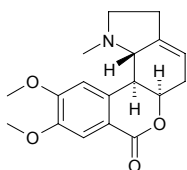
$C_{23}H_{34}O_9$ (454.52). Oil, $[\alpha]_D^{24} = -67.3^\circ$ ($c = 0.01$, MeOH). **Source:** ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000009%dw). **Ref:** 4672.

**9611 1-Homoisoacevaltrate**

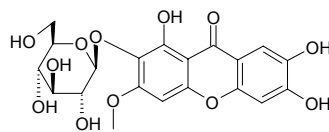
$C_{25}H_{34}O_{10}$ (494.54). Oil, $[\alpha]_D^{24} = +198.5^\circ$ ($c = 0.01$, MeOH). **Source:** ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000008%dw). **Ref:** 4672.

**9612 Homolycorine**

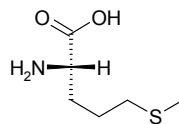
Narcipoetine [477-20-3] $C_{18}H_{21}NO_4$ (315.37). mp 175°C, $[\alpha]_D = +85^\circ$ (95% EtOH); pale-yellow crystals, 177~178°C, $[\alpha]_D^{28} = +98^\circ$ ($c = 0.1$, EtOH). **Pharm:** Antiretroviral and cytotoxic ($ID_{50} = 7.3\mu g/mL$, $TC_{50} = 12.8\mu g/mL$, TI_{50} (TC_{50}/ID_{50}) = 1.8)^[5026]. **Source:** DA YI ZHI JIAN *Lycoris aurea*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], HONG KOU SHUI XIAN *Narcissus poeticus*, XUE PIAN LIAN *Leucojum vernum* (bulb), family Amaryllidaceae spp. **Ref:** 6, 1521, 5026.

**9613 Homomangiferin**

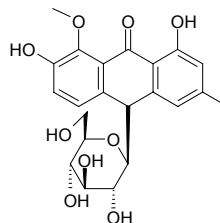
$C_{20}H_{20}O_{12}$ (452.38). **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

**9614 Homomethionin**

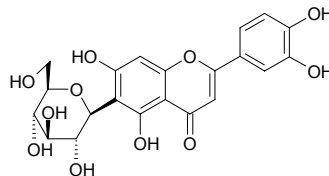
$C_6H_{13}NO_2S$ (163.24). **Source:** GAN LAN *Brassica oleracea* var. *capitata*, LA GEN *Armoracia laphathifolia*. **Ref:** 660.

**9615 Homonataloin**

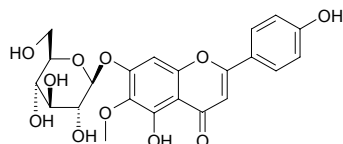
[477-66-7] $C_{22}H_{24}O_9$ (432.43). mp 202~204°C, $[\alpha]_D = -112.3^\circ$. **Source:** LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], *Aloe cremnophila*, *Aloe distans*, *Aloe jacksonii*. **Ref:** 2, 1521.

**9616 Homoorientin**

Isoorientin; Luteolin-6-C- β -D-glucopyranoside [4261-42-1] $C_{21}H_{20}O_{11}$ (448.39). Lightyellow needles, mp 235°C, $[\alpha]_D^{20} = +30.8^\circ$ ($c = 1.2$, pyridine), $[\alpha]_D^{22} = 0^\circ$ ($c = 0.73$, pyridine). **Pharm:** Phytoalexin^[4727]; β -glucosidase inhibitor^[4727]; pectinase inhibitor^[4727]. **Source:** HONG CAO *Polygonum orientale*, HU LU BA *Trigonella foenum-graecum*, HU ZHI ZI *Lespedeza bicolor*, HUANG GUA *Cucumis sativus* (leaf)^[4727], NAN ZHU ZI *Vaccinium bracteatum*, QIAO MAI JIE *Fagopyrum esculentum*, RI BEN SHUANG HU DIE *Tripterospermum japonicum*, SUAN JIAO *Tamarindus indica*, XIA KU CAO *Prunella vulgaris*, YA MA *Linum usitatissimum*, ZHANG YA CAI *Swertia pseudochinensis*. **Ref:** 6, 1521, 2508, 3533, 4727.

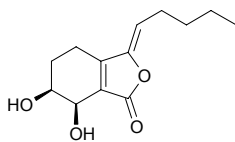
**9617 Homoplataginin**

Hispidulose [17680-84-1] $C_{22}H_{22}O_{11}$ (462.41). Yellow needles (EtOH), mp 241~242°C (dec). **Pharm:** Antitussive (dispels phlegm). **Source:** LI ZHI CAO *Salvia plebeia*, CHE QIAN *Plantago asiatica*. **Ref:** 6, 658, 660, 1521.

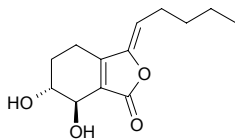


9618 Homosenkyunolide H

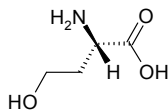
$C_{13}H_{28}O_4$ (238.29). Colorless oil. Source: DANG GUI *Angelica sinensis*. Ref: 2474.

**9619 Homosenkyunolide I**

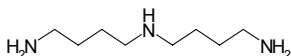
$C_{13}H_{28}O_4$ (238.29). Colorless oil. Source: DANG GUI *Angelica sinensis*. Ref: 2474.

**9620 L-Homoserine**

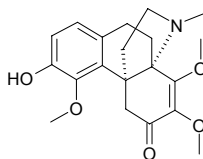
[672-15-1] $C_4H_9NO_3$ (119.12). mp (+) 203°C (dec). Pharm: Plays a key role in biosynthesis of threonine, isoleucine and methionine. Source: AN YE *Eucalyptus globulus*, DAO DOU *Canavalia gladiata*, DUO HUA HUANG JING *Polygonatum cyrtoneuma* [Syn. *Polygonatum multiflorum*], SAN YE SHU WEI CAO *Salvia trijuga*, WAN DOU *Pisum sativum*, ZI YUN YING ZI *Astragalus sinicus*. Ref: 6, 182, 658, 660.

**9621 sym-Homospermidine**

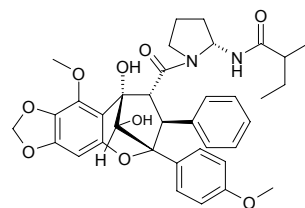
4,4'-Diaminobutylamine; 1,9-Diamino-5-azanonane [4427-76-3] $C_8H_{21}N_3$ (159.28). Source: TAN XIANG *Santalum album*, SHUI HU LU *Eichhornia crassipes* (root). Ref: 6, 1521.

**9622 Homostephanoline**

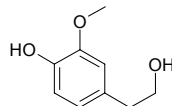
[2689-15-8] $C_{20}H_{25}NO_5$ (359.43). mp 233°C, $[\alpha]_D^{22} = -247.8^\circ$ (CHCl₃). Source: QIAN JIN TENG *Stephania japonica*. Ref: 6, 660, 1521.

**9623 Homothapsakin A**

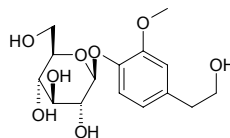
(-)-(2*R*,3*S*,4*R*,5*R*,10*S*,2'*S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylbutanoylamino)-pyrrolidine $C_{36}H_{40}N_2O_9$ (644.73). $[\alpha]_D^{20} = -135^\circ$ ($c = 0.3$, CHCl₃). Source: KE SHI MI ZI LAN *Aglaiia edulis*. Ref: 2355.

**9624 Homovanillyl alcohol**

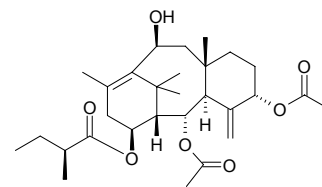
$C_9H_{12}O_3$ (168.19). Source: QIAN MA *Urtica cannabina*. Ref: 660.

**9625 Homovanillyl alcohol-4-O-glucoside**

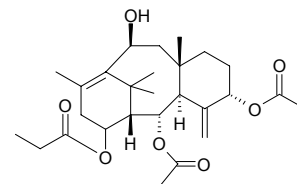
$C_{15}H_{22}O_8$ (330.34). Source: QIAN MA *Urtica cannabina*. Ref: 660.

**9626 Hongdoushan A**

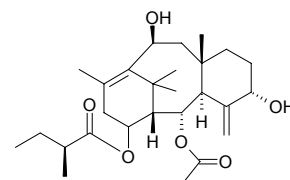
$C_{29}H_{44}O_7$ (504.67). Colorless amorphous solid, $[\alpha]_D^{25} = +81.3^\circ$ ($c = 0.06$, CHCl₃). Pharm: Cytotoxic (*in vitro*, 26-L5, EC₅₀ = 61 μg/mL; HT1080, EC₅₀ = 40.1 μg/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μg/mL; HT1080, EC₅₀ = 0.07 μg/mL)^[4661]; antioxidant (DPPH scavenger, IC₅₀ > 200 μmol/L, control Caffeic acid, IC₅₀ = 25.5 μmol/L)^[5407]; NO production inhibitor (IC₅₀ = 15.0 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0018%dw). Ref: 4661, 5407.

**9627 Hongdoushan B**

$C_{27}H_{40}O_7$ (476.62). Colorless amorphous solid, $[\alpha]_D^{25} = +68.9^\circ$ ($c = 0.08$, CHCl₃). Pharm: Cytotoxic (*in vitro*, 26-L5, EC₅₀ > 100 μg/mL; HT1080, EC₅₀ = 70.4 μg/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μg/mL; HT1080, EC₅₀ = 0.07 μg/mL)^[4661]; NO production inhibitor (IC₅₀ = 43.5 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0042%dw). Ref: 4661, 5407.

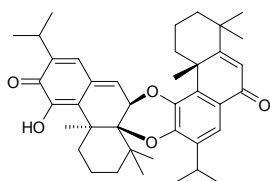
**9628 Hongdoushan C**

$C_{27}H_{42}O_6$ (462.63). Colorless amorphous solid, $[\alpha]_D^{25} = +77.4^\circ$ ($c = 0.14$, CHCl₃). Pharm: Cytotoxic (*in vitro*, 26-L5, EC₅₀ = 61.1 μg/mL; HT1080, EC₅₀ = 3.8 μg/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μg/mL; HT1080, EC₅₀ = 0.07 μg/mL). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.00034%dw). Ref: 4661.

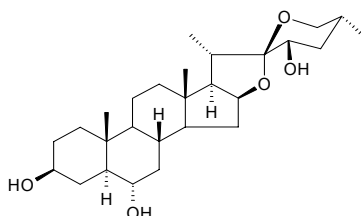


9629 Hongencaotone

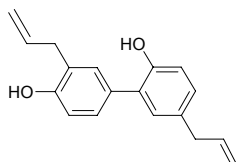
$C_{40}H_{50}O_5$ (610.84). Yellow plates (cyclohexane), mp 191–192°C, $[\alpha]_D^{25} = 588^\circ$ ($c = 0.05$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, HL-60 and Bel7402 tumor cell lines). **Source:** HONG GEN CAO *Salvia prionitis* (root). **Ref:** 3072.

**9630 Hongguanggenin**

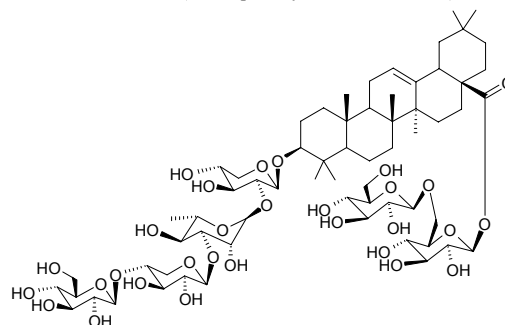
[65620-57-7] $C_{27}H_{44}O_5$ (448.65). **Source:** JIAN MA *Agave sisalana*. **Ref:** 10, 1521.

**9631 Honokiol**

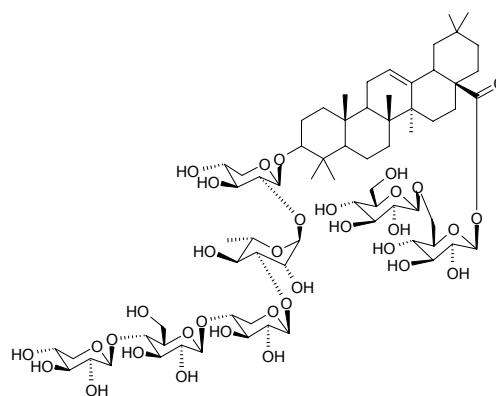
[35354-74-6] $C_{18}H_{18}O_2$ (266.34). mp 87.5°C. **Pharm:** Hepatoprotective (inhibits cellular leakage of LDH and AST, and cell death, induced by 1.5 $\mu\text{mol/L}$ tBH for 1h, effective dose = 20 $\mu\text{mol/L}$, 40 $\mu\text{mol/L}$; induced by 30 $\mu\text{mol/L}$ GalN, effective dose = 1 $\mu\text{mol/L}$, 5 $\mu\text{mol/L}$, and 20 $\mu\text{mol/L}$)^[5344]; hepatoprotective (inhibits tBH-induced lipid peroxidation, primary cultured rat hepatocytes, thiobarbituric acid reactive substance (TBARS) assay, effective dose = 5, 20 and 40 $\mu\text{mol/L}$)^[5344]; hepatoprotective (inhibits GSH depletion, GSH concentration in tBH-treated hepatocytes was significantly reduced to 17 % of that of normal hepatocytes, effective dose = 5 $\mu\text{mol/L}$, 20 $\mu\text{mol/L}$, and 40 $\mu\text{mol/L}$; induced by GalN, effective dose = 1 $\mu\text{mol/L}$, 5 $\mu\text{mol/L}$ and 20 $\mu\text{mol/L}$)^[5344]; antioxidant (protects rat heart and liver mitochondria against lipidperoxidation; hydroxyl radical scavenger)^[5362]; platelet aggregation inhibitor^[5362]; antiarrhythmic^[5362]; anti-ischemia myocardial (myocardial ischemia-reperfusion injury)^[5362]; anti-myocardial infarction (rat, reduces area of coronary artery infarction)^[5362]; increases tolerance to anoxia (rat, no significant hemodynamic change after intravenous infusion of honokiol at the dosages of 0.01 $\mu\text{g/kg}$, 0.1 $\mu\text{g/kg}$ and 1.0 $\mu\text{g/kg}$, however significantly reduces total volume of infarction at 0.1 $\mu\text{g/kg}$ or 1.0 $\mu\text{g/kg}$)^[5362]; antibacterial (gram-negative bacteria and acid-fast bacteria); anticaries (inhibits tooth decay); antifungal; CNS depressant; pesticide; skeletal muscle relaxant. **Source:** AO YE HOU PO *Magnolia biloba*, HOU PO *Magnolia officinalis* (bark: content scope of 5 origins = 1.05%–6.82%, mean content = 4.61%^[5508]), RI BEN HOU PO *Magnolia obovata* (dried bark). **Ref:** 2, 625, 658, 660, 1521, 5344, 5362, 5501, 5508.

**9632 Hookeroside A**

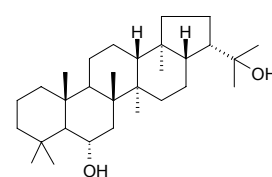
$C_{64}H_{104}O_{30}$ (1353.52). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 73%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole plant: yield = 0.0010%dw). **Ref:** 3021.

**9633 Hookeroside B**

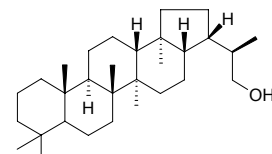
$C_{69}H_{112}O_{34}$ (1485.64). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 92%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole plant: yield = 0.00048%dw). **Ref:** 3021.

**9634 6 α ,22-Hopanediol**

Zeorin $C_{30}H_{52}O_2$ (444.75). **Source:** SHI DI QIAN *Reboulia hemisphaerica*, XUE LING ZHI *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*]. **Ref:** 660.

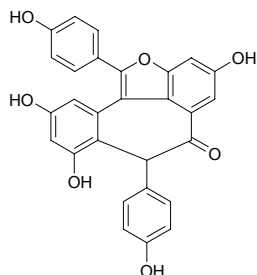
**9635 29-Hopanol**

Neriifoliol [34620-75-2] $C_{30}H_{52}O$ (428.75). Crystals, mp 242–244°C, $[\alpha]_D = +35^\circ$. **Source:** GUAN ZHONG *Dryopteris crassirhizoma*, DA YE GU SUI BU *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*]. **Ref:** 6, 660, 1521.

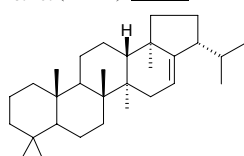


9636 Hopeafuran

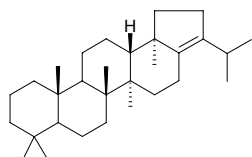
$C_{28}H_{17}O_7$ (466.45). Yellow solid, $[\alpha]_D^{24} = -46^\circ$ ($c = 0.1$, MeOH). Source: YOU YONG PO LEI *Hopea utilis* (stem wood). Ref: 3546.

**9637 Hop-16-ene**

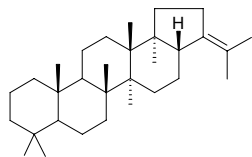
$C_{30}H_{50}$ (410.73). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**9638 Hop-17(21)-ene**

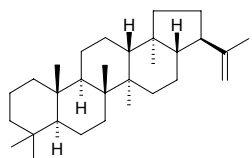
$C_{30}H_{50}$ (410.73). Source: DUO ZU JUE *Polypodium vulgare*, HAI ZHOU GU SUI BU *Davallia mariesii*, PING *Marsilea quadrifolia*, SHUI LONG GU *Polypodium niponicum*. Ref: 660.

**9639 Hop-21-ene**

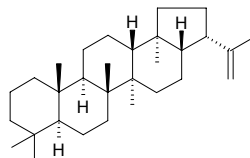
$C_{30}H_{50}$ (410.73). Source: DA YE GU SUI BU *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], GU SUI BU *Drynaria fortunei*, HAI ZHOU GU SUI BU *Davallia mariesii*, SHUI LONG GU *Polypodium niponicum*. Ref: 660.

**9640 21 α H-22(29)-Hopene**

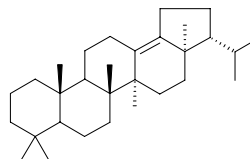
$C_{30}H_{50}$ (410.73). Crystals (Me₂CO), mp 212~214°C, $[\alpha]_D^{23} = +27.1^\circ$ (CHCl₃). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 1521.

**9641 21 β H-22(29)-Hopene**

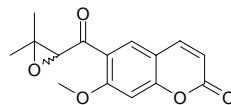
Diploptene; Hopene-B [1615-91-4] $C_{30}H_{50}$ (410.73). Crystals, mp 210~211°C, $[\alpha]_D = +61^\circ$ (CHCl₃). Source: GUAN ZHONG *Dryopteris crassirhizoma*, SHI WEI *Pyrrhosia lingua*, LU SHAN SHI WEI *Pyrrhosia sheareri*, SHUI LONG GU *Polypodium niponicum*, DAN GAI TIE XIAN JUE *Adiantum monochlamys*. Ref: 6, 660, 1521.

**9642 Hopene II**

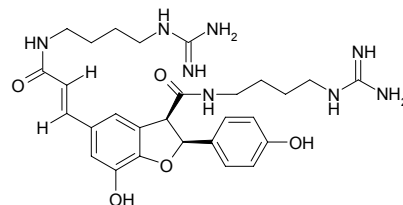
13(18)-Neohopene; Wallichene [21681-17-4] $C_{30}H_{50}$ (410.73). Crystals (Me₂CO), mp 196~197°C, $[\alpha]_D = +2^\circ$ ($c = 1.4$, CHCl₃). Source: CHUAN SHI JIAN *Pseudodrynaria coronans*, DUO ZU JUE *Polypodium vulgare*, GAO SHAN TIAO JUE *Oleandra wallichii*, HAI ZHOU GU SUI BU *Davallia mariesii*, SHUI LONG GU *Polypodium niponicum*, TIE SI QI *Adiantum pedatum*. Ref: 6, 660, 1521.

**9643 Hopeyhopin**

$C_{15}H_{14}O_5$ (274.28). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (20.6±1.3)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC₅₀ = 207mol ratio/32 pmol TPA, β -Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA)^[5048]. Source: *Citrus medica* var. *etrog*, *Citrus sulcata*, *Citrus tamurana*. Ref: 5048.

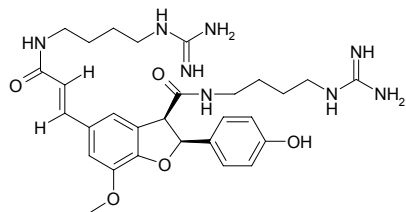
**9644 Hordatine A**

[7073-64-5] $C_{28}H_{38}N_8O_5$ (566.67). $[\alpha]_D^{26} = +69^\circ$, Di-bitter acid salt, tiny crystals (methanol), mp 127~128°C. Pharm: Antifungal. Source: MAI YA *Hordeum vulgare*. Ref: 658, 1521, 5501.

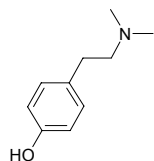


9645 Hordatine B

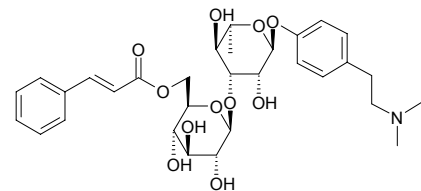
[10502-21-3] C₂₉H₄₀N₈O₅ (580.69). [α]_D²³ = +54°, Di-bitter acid salt: mp 132~135°C. **Pharm:** Antifungal. **Source:** MAI YA *Hordeum vulgare*. **Ref:** 658, 1521, 5501.

**9646 Hordenine**

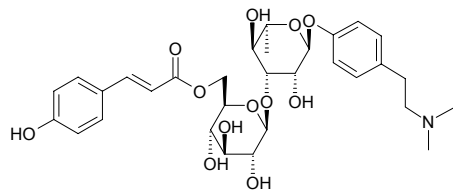
N,N-Dimethyltyramine [539-15-1] C₁₀H₁₅NO (165.24). mp 117°C, bp 173~174°C/11mmHg. **Pharm:** Antiasthmatic (cat, bronchospasm caused by proserine, ED = 0.5~1.0mg/kg, no activity in normal cat); uterine stimulant (enhances tension and movement of uterus, gpg, 1.0mg/kg); insect antifeedant; radioprotector; similar action with ephedrine. **Source:** DUAN YE SHAN MA HUANG *Desmodium tiliaefolium*, HONG MU JI CAO *Desmodium gangeticum*, JIA MU DOU *Desmodium cephalotes*, LUO TUO CI *Alhagi pseudalhagi*, LUO XUAN JIN HE HUAN *Acacia spirorbis*, MAI YA *Hordeum vulgare* (germinated fruit: content scope = 0.13%~0.25%^[5501]), XI MA DU WEI CAO *Eremurus himalaicus*, YI CAO *Phalaris arundinacea*, GAN QING WU TOU *Aconitum tanguticum*, occurs in many plants (family Cactaceae spp., family Amaryllidaceae spp., family Gramineae spp., family Fabaceae spp.). **Ref:** 6, 658, 1521, 2203, 5501.

**9647 (E)-Hordenine-(6-O-cinnamoyl-β-D-glucopyranosyl)-(1→3)-α-L-rhamnopyranoside**

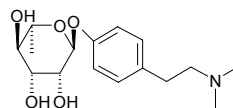
C₃₁H₄₁NO₁₁ (603.67). **Source:** DA YE CAI *Selaginella doederleinii*. **Ref:** 660.

**9648 (E)-Hordenine-[6-O-(4-hydroxycinnamoyl)-β-D-glucopyranosyl]-(1→3)-α-L-rhamnopyranoside**

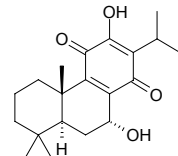
C₃₁H₄₁NO₁₂ (619.67). **Source:** DA YE CAI *Selaginella doederleinii*. **Ref:** 660.

**9649 Hordenine-O-α-L-rhamnopyranoside**

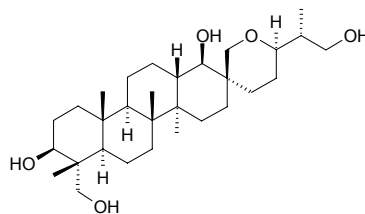
C₁₆H₂₅NO₅ (311.38). **Source:** DA YE CAI *Selaginella doederleinii*. **Ref:** 660.

**9650 Horminone**

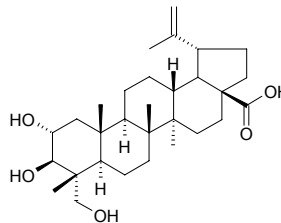
C₂₀H₂₈O₄ (332.44). **Source:** *Rabdosia* spp. **Ref:** 660.

**9651 Hosenkol A**

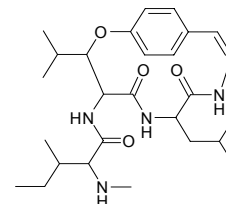
C₃₀H₅₂O₅ (492.75). **Source:** JI XING ZI *Impatiens balsamina*. **Ref:** 660.

**9652 Hovenic acid**

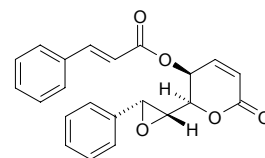
C₃₀H₄₈O₅ (488.71). **Source:** ZHI JU ZI *Hovenia dulcis*. **Ref:** 660.

**9653 Hovenine A**

N-Demethylfrangulanine [52309-78-1] C₂₇H₄₂N₄O₄ (486.66). mp 215°C. **Source:** ZHI JU GEN *Hovenia dulcis*. **Ref:** 6, 1521.

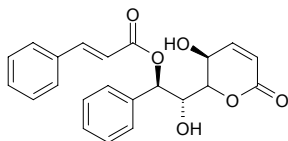
**9654 Howiinin A**

6*S*-(1*S*,2*R*-Epoxyphenethyl-5*S*-cinnamyloxy)-5,6-dihydro-2-pyrone [215055-08-6] C₂₂H₁₈O₅ (362.40). White acicular crystals, mp 176~178°C, [α]_D = +97.6° (*c* = 0.087, chloroform). **Source:** HAI NAN GE NA XIANG *Goniolthalamus howii*. **Ref:** 410.

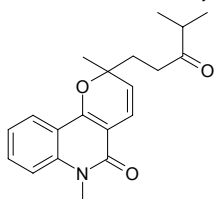


9655 Howiinol A

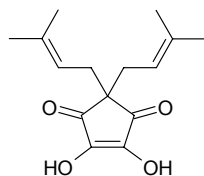
6S-(1*R*-Hydroxy-2*R*-cinnamyloxyphenethyl)-5,6-dihydro-5*S*-hydroxy-2-pyrone [190848-69-2] C₂₂H₂₀O₆ (380.40). White acicular crystals, mp 176~178°C, [α]_D²⁰ = +97.6° (*c* = 0.087, chloroform). **Pharm:** Antineoplastic (hmn tumor, *in vivo* and *in vitro*, cell proliferation inhibitor, blocks cell from G₁ to S phase, increases fluidity of L₁₂₁₀ cell membrane)^[2442]. **Source:** HAI NAN GE NA XIANG *Goniiothalamus howii*. **Ref:** 410, 1620, 2442.

**9656 Huajiaosimuline**

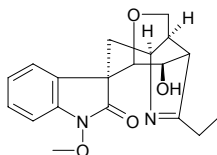
[155416-21-0] C₂₀H₂₃NO₃ (325.41). Oil. **Pharm:** Cytotoxic (hmn mammary cancer cell ZR-75-1 selective cytotoxic, ED₅₀ = 11.1 μmol/L, mus P₃₈₈, ED₅₀ = 9.8 μmol/L); platelet aggregation inhibitor (rbt, 100 μg/mL, due to arachidonic acid, InRt = 100%, due to collagen, InRt = 83.9%, due to PAF, InRt = 100%). **Source:** YE HUA JIAO PI *Zanthoxylum simulans*. **Ref:** 1052, 1120.

**9657 Hulupinic acid**

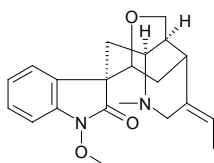
C₁₅H₂₀O₄ (264.32). Colorless needles (MeOH). **Pharm:** NO production Inhibitor inactive (*in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC₅₀ > 100 μmol/L)^[4795]. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

**9658 Humantenidine**

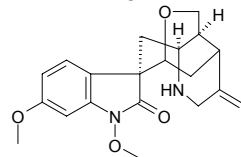
[82375-28-8] C₁₉H₂₂N₂O₄ (342.40). Gum, [α]_D²⁰ = -123°. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14.

**9659 Humantenine**

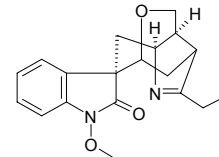
[82375-29-9] C₂₁H₂₆N₂O₃ (354.45). Gum, [α]_D²⁰ = -142°. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14.

**9660 Humantenirine**

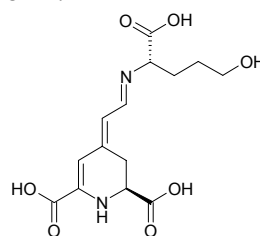
[82375-30-2] C₂₁H₂₆N₂O₄ (370.45). Needles (Me₂CO), mp 167~170°C, [α]_D²⁰ = -135° (*c* = 0.56, MeOH); mp 168~169°C. **Source:** GOU WEN *Gelsemium elegans*, *Gelsemium rankinii*. **Ref:** 14, 1521.

**9661 Humantenmine**

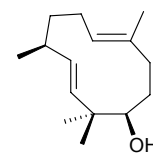
Gelsenicine [82354-38-9] C₁₉H₂₂N₂O₃ (326.40). mp 166~168°C, [α]_D²⁰ = -147°. **Pharm:** Analgesic. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14, 1521.

**9662 Humilixanthin**

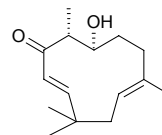
C₁₄H₁₈N₂O₇ (326.31). **Source:** DA HUA MA CHI XIAN *Portulaca grandiflora*. **Ref:** 660.

**9663 1,6-Humuladien-10-ol**

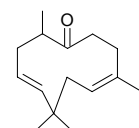
C₁₅H₂₆O (222.37). Oil, [α]_D²⁰ = +56.4° (*c* = 0.20, CHCl₃). **Source:** *Tylimanthus tenellus*. **Ref:** 4280.

**9664 2,9-Humuladien-6-ol-8-one**

C₁₅H₂₄O₂ (236.36). [α]_D²⁴ = -11.8° (*c* = 0.10, CHCl₃). **Pharm:** CYP3A4 inhibitor (IC₅₀ = 27.2 μmol/L, control Ketoconazole IC₅₀ = 0.24 μmol/L); CYP2D6 inhibitor inactive (IC₅₀ > 100 μmol/L, control Quinidine IC₅₀ = 0.068 μmol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome). **Ref:** 4449.

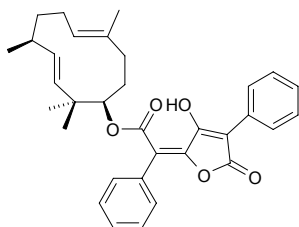
**9665 Humuladienone**

2,9-Humuladien-6-one [24405-90-1] C₁₅H₂₄O (220.36). [α]_D²⁴ = +5° (*c* = -0.7, CHCl₃). **Source:** PI JIU HUA *Humulus lupulus*. **Ref:** 1521.



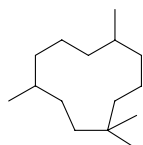
9666 Humuladien-10-yl-(3-Hydroxy-5-oxo-4-phenyl-5H-furan-2-ylidene)-phenylacetic acid-ester

$C_{33}H_{36}O_5$ (516.25). Yellow crystals, mp 116°C, $[\alpha]_D = +3.0^\circ$ ($c = 0.53$, $CHCl_3$). Source: *Tylimanthus tenellus*. Ref: 4280.



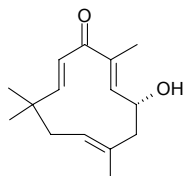
9667 Humulane

1,1,4,8-Tetramethylcycloundecane [430-19-3] $C_{15}H_{30}$ (210.41). Source: MAN SHAN HONG *Rhododendron dauricum*. Ref: 6.



9668 (5R)-2,6,9-Humulatrien-5-ol-8-one

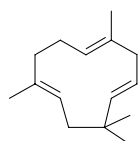
$C_{15}H_{22}O_2$ (234.34). Pharm: CYP3A4 inhibitor ($IC_{50} = 35.5 \mu\text{mol/L}$, control Ketoconazole, $IC_{50} = 0.245 \mu\text{mol/L}$); CYP2D6 inhibitor inactive ($IC_{50} > 100 \mu\text{mol/L}$, control Quinidine, $IC_{50} = 0.078 \mu\text{mol/L}$). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00031%dw). Ref: 4669.



9669 α -Humulene

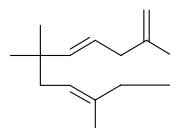
[6753-98-6] $C_{15}H_{24}$ (204.36). bp 123°C/10mmHg. Pharm: Cytotoxic (cancer cell: MCF7, $GI_{50} = (73 \pm 2) \mu\text{mol/L}$, PC3, $GI_{50} = (73 \pm 2) \mu\text{mol/L}$, A549, $GI_{50} = (68 \pm 2) \mu\text{mol/L}$, DLD-1, $GI_{50} = (71 \pm 2) \mu\text{mol/L}$, M4BEU hmn melanoma cell, $GI_{50} = (55 \pm 2) \mu\text{mol/L}$, L-929, $GI_{50} = (50 \pm 1) \mu\text{mol/L}$, CT-26, $GI_{50} = (53 \pm 1) \mu\text{mol/L}$; normal hmn cell: fibroblasts, $GI_{50} = (85 \pm 5) \mu\text{mol/L}$; control Etoposide, $GI_{50} < 1.5 \mu\text{mol/L}$, Chlorambucil, $GI_{50} < 50 \mu\text{mol/L}$; induces decrease in cellular GSH content and increases ROS production)^[5391]; flavorant. Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BING PIAN *Dryobalanops aromatica*, CANG ZHU *Atractylodes lancea*, CHAI HU *Bupleurum chinense*, DA CAO KOU *Alpinia speciosa*, DA YE XIANG RU *Mosla dianthera*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DU SONG SHI *Juniperus rigida*, FU JU *Citrus tangemna*,

HONG CHAI HU *Bupleurum scorzonerifolium*, HOU PO *Magnolia officinalis*, HUA DONG LAN CI TOU *Echinops grijsii*, JI NING *Mosla grosseserrata*, JIN QIAN PU *Acorus gramineus*, LIAN JIANG *Alpinia chinensis*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PI JIU HUA *Humulus lupulus*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*], TU DANG GUI *Aralia cordata*, WU SE MEI *Lantana camara*, WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*], XIANG ZHI LENG SHAN *Abies balsamea* (essential oil extracted from leaves), YE XIANG MAO *Cymbopogon goeringii*, YIN CHEN HAO *Artemisia capillaris*, ZHANG MU *Cinnamomum camphora*, ZHU JU *Citrus erythrosa*, occurs in many plants. Ref: 2, 6, 658, 660, 1521, 5391.



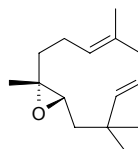
9670 β -Humulene

2,7(14),9-Humulatriene [116-04-1] $C_{15}H_{24}$ (204.36). Source: HUO XIANG *Agastache rugosus*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], PI JIU HUA *Humulus lupulus*, WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 2, 1521.



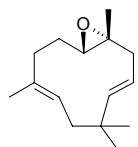
9671 Humulene epoxide I

2,3-Epoxy-6,9-humuladiene [19888-33-6] $C_{15}H_{24}O$ (220.36). Oil, bp 104~105°C/1.5mmHg, $[\alpha]_D^{30} = -22.8^\circ$ ($c = 3.6$, $CHCl_3$). Pharm: Antineoplastic (mus, liver and small intestine, glutathione S-transferase activator). Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], PI JIU HUA *Humulus lupulus*, HONG QIU JIANG *Zingiber zerumbet*. Ref: 6, 1808, 1521.



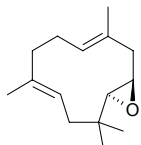
9672 Humulene epoxide II

6,7-Epoxy-2,9-humuladiene [19888-34-7] $C_{15}H_{24}O$ (220.36). Oil, bp 105~106°C/1.5mmHg, $[\alpha]_D^{30} = -31.2^\circ$ ($c = 4.2$, $CHCl_3$). Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], PI JIU HUA *Humulus lupulus*, HONG QIU JIANG *Zingiber zerumbet*. Ref: 6, 1521.

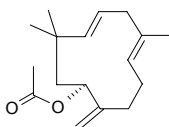


9673 Humulene epoxide III

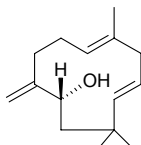
9,10-Epoxy-2,6-humuladiene [21624-36-2] $C_{15}H_{24}O$ (220.36). Oil, bp 120~130°C/15mmHg, $[\alpha]_D = +2.15^\circ$ ($c = 1.25$, $CHCl_3$). Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*]. Ref: 6, 1521.

**9674 α -Humulenol acetate**

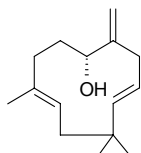
$C_{17}H_{26}O_2$ (262.40). Source: JU PI *Citrus reticulata*. Ref: 6.

**9675 Humulenol I**

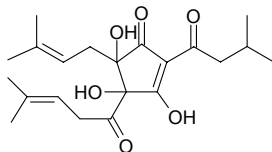
$C_{15}H_{24}O$ (220.36). Source: PI JIU HUA *Humulus lupulus*. Ref: 660.

**9676 Humulenol II**

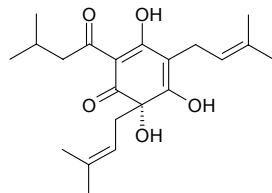
$C_{15}H_{24}O$ (220.36). Source: PI JIU HUA *Humulus lupulus*. Ref: 660.

**9677 Humulinone**

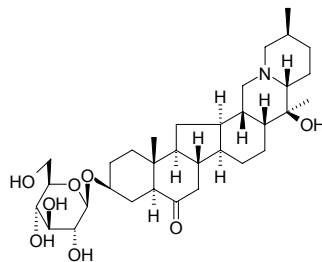
$C_{21}H_{30}O_6$ (378.47). Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**9678 Humulone**

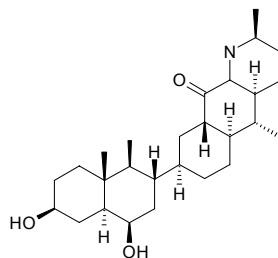
$C_{21}H_{30}O_5$ (362.47). mp 63~65°C. Pharm: Antibiotic (inhibits gram-positive bacteria including *Bacillus anthracis*, *Bacillus cereus*, *Bacillus diphtheriae*, *Diplococcus pneumoniae*, *Staphylococcus aureus*, and *Mycobacterium tuberculosis*); main bitter component in beer. Source: LU CAO *Rhaponticum carthamoides*, PI JIU HUA *Humulus lupulus*. Ref: 6, 658.

**9679 Hupehemonoside**

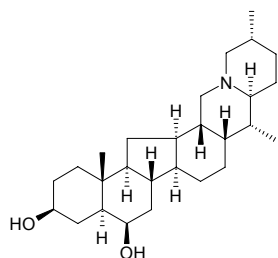
$C_{33}H_{53}NO_8$ (591.79). Colorless amorphous powder, mp 206~208°C, $[\alpha]_D^{27} = -48.3^\circ$ ($c = 0.46$, methanol). Source: HU BEI BEI MU *Fritillaria hupehensis*. Ref: 206.

**9680 Hupehenidine**

[123857-37-4] $C_{27}H_{45}NO_3$ (431.66). mp 174~175°C, $[\alpha]_D = -82.6^\circ$ ($c = 0.05$, MeOH). Source: HU BEI BEI MU *Fritillaria hupehensis*, E BEI BEI MU *Fritillaria ebeiensis*. Ref: 2201, 1521.

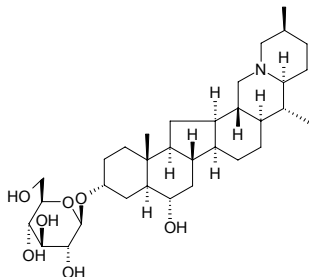
**9681 Hupehenine**

Persicanidine A [139757-61-2] $C_{27}H_{45}NO_2$ (415.67). Colorless prisms (MeOH), mp 208°C (dec), $[\alpha]_D^{30} = -7.8^\circ$ ($c = 0.23$, $CHCl_3$). Pharm: cAMP phosphodiesterase inhibitor ($IC_{50} = 247 \mu\text{mol/L}$). Source: HU BEI BEI MU *Fritillaria hupehensis* (bulb: mean content of 9 samples = 0.082%^[5508]), TAO BEI MU *Fritillaria persica*. Ref: 660, 1755, 3608, 5508.

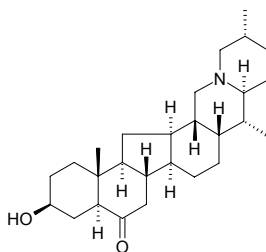


9682 Hupeheninoside

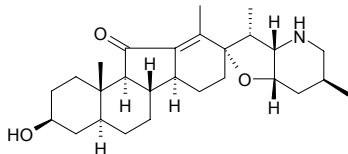
5 α ,14 α -Cevanine-6 α -hydroxyl-3 α - β -D-glucoside [98985-22-9] C₃₃H₅₅NO₇ (577.81). Colorless prismatic crystals, mp 241~244°C, [α]_D²⁰ = -41° (c = 0.16, methanol). **Pharm:** cAMP phosphodiesterase inhibitor (IC₅₀ = 127 μ mol/L) **Source:** HU BEI BEI MU *Fritillaria hupehensis*. **Ref:** 30, 1755, 1521.

**9683 Hupehenirine**

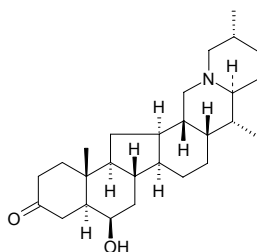
C₂₇H₄₃NO₂ (413.65). **Source:** HU BEI BEI MU *Fritillaria hupehensis*. **Ref:** 660.

**9684 Hupehenisine**

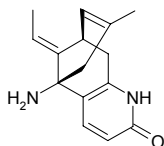
C₂₇H₄₁NO₃ (427.63). **Source:** HU BEI BEI MU *Fritillaria hupehensis*. **Ref:** 59, 660.

**9685 Hupehenizine**

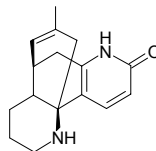
C₂₇H₄₃NO₂ (413.65). **Source:** HU BEI BEI MU *Fritillaria hupehensis*. **Ref:** 660.

**9686 Huperzine A**

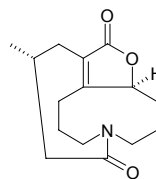
Selagine C₁₅H₁₈N₂O (242.32). mp 224~226°C. **Pharm:** Cholinesterase inhibitor (marked activity). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: mean content of 3 origins = 0.020%^[5508]), XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. **Ref:** 6, 660, 1521, 5508.

**9687 Huperzine B**

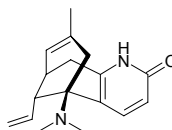
C₁₆H₂₀N₂O (256.35). **Pharm:** Cholinesterase inhibitor (marked activity). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 660, 1521.

**9688 Huperzine R**

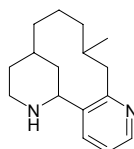
C₁₅H₂₁NO₃ (263.34). Colorless prisms (petroleum ether-acetone), mp 189~191°C, [α]_D²⁵ = -0.115° (c = 0.417, CHCl₃). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00017%dw). **Ref:** 4636.

**9689 Huperzinine**

[119188-49-7] C₁₇H₂₂N₂O (270.38). White thin acicular crystals, mp 251~253°C, [α]_D²⁵ = -25.3° (c = 0.1456, chloroform). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 108.

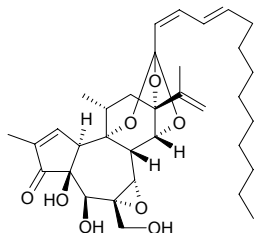
**9690 Huperzinine C**

C₁₆H₂₄N₂ (244.38). White granular crystals (petroleum ether), mp 42~44°C. **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 4831.

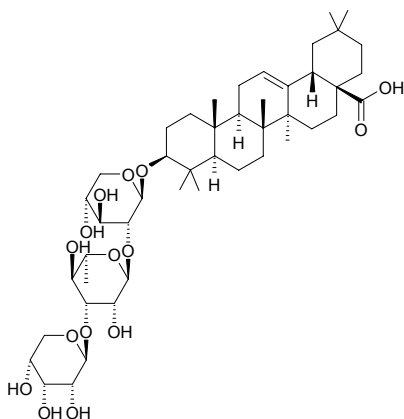


9691 Huratoxin

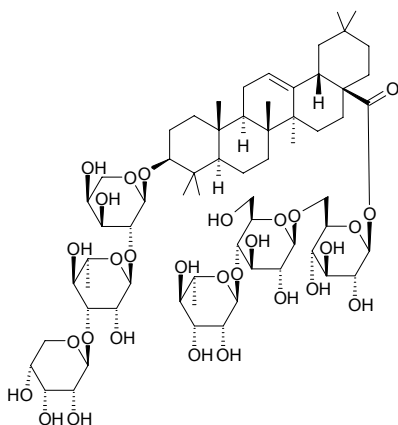
[33465-16-6] C₃₄H₄₈O₈ (584.76). Glassy resin, [α]_D²⁸ = +55.1° (c = 2.7, chloroform). **Pharm:** Fish toxin. **Source:** SHA HE SHU *Hura crepitans*. **Ref:** 658, 1521.

**9692 Huzhangoside A**

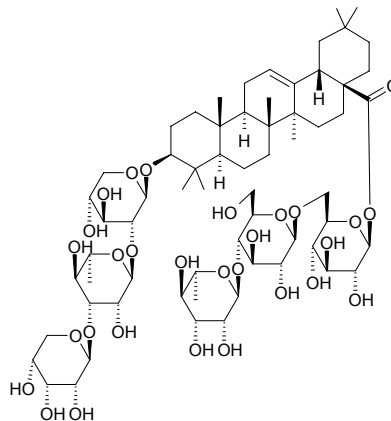
C₄₆H₇₄O₁₅ (867.09). **Source:** HU ZHANG CAO *Anemone rivularis* (root). **Ref:** 660.

**9693 Huzhangoside B**

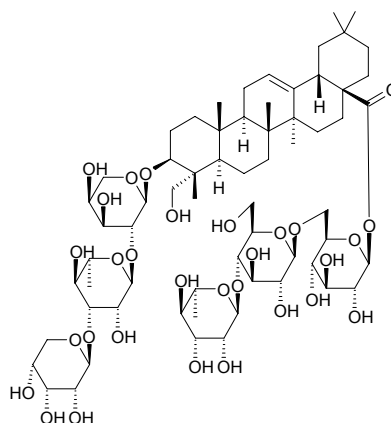
C₆₄H₁₀₄O₂₉ (1337.53). **Source:** HU ZHANG CAO *Anemone rivularis* (root). **Ref:** 660.

**9694 Huzhangoside C**

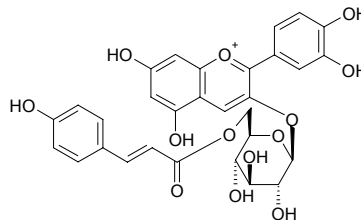
C₆₄H₁₀₄O₂₉ (1337.53). **Source:** HU ZHANG CAO *Anemone rivularis* (root). **Ref:** 660.

**9695 Huzhangoside D**

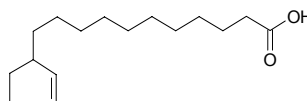
[96315-53-6] C₆₄H₁₀₄O₃₀ (1353.52). **Source:** HU ZHANG CAO *Anemone rivularis* (root), XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). **Ref:** 660, 1521, 3530.

**9696 Hyacinthin**

Cyanidin-3-*O*- β -D-(6-*O*-*p*-coumaroyl)-glucoside C₃₀H₂₇O₁₃⁺ (595.54). **Source:** FENG XIN ZI *Hyacinthus orientalis*, PU⁽²⁾ TAO *Vitis vinifera*. **Ref:** 660, 1521.

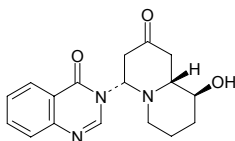
**9697 Hydnocarpic acid**

[459-67-6] C₁₆H₂₈O₂ (252.40). mp (\pm) 59.0–59.5°C, (+) 59–60°C. **Pharm:** Antileprotic (infected mouse, sc or ip, inhibits *Mycobacterium leprae*). **Source:** DA FENG ZI *Hydnocarpus anthelminticus* (seed: content scope = 23.78%–28.28%^[5501]). **Ref:** 6, 5501.

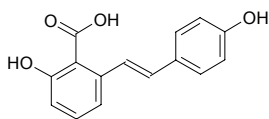


9698 Hydrachine A

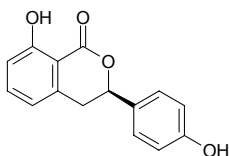
3-[9 β -Hydroxy-2-oxo-4a-quinolizidyl]-4-quinazolinone C₁₇H₁₉N₃O₃ (313.36). Semisolid, [α]_D²⁵ = +25.32° (*c* = 0.2, CHCl₃). **Pharm:** Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity). **Source:** ZHONG GUO XIU QIU *Hydrangea chinensis* (root). **Ref:** 3069.

**9699 Hydrangeic acid**

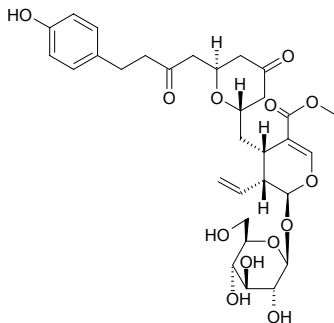
[491-79-2] C₁₅H₁₂O₄ (256.26). mp 181°C. **Source:** BA XIAN HUA *Hydrangea macrophylla*. **Ref:** 6.

**9700 Hydrangenol**

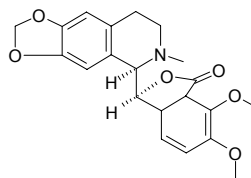
[480-47-7] C₁₅H₁₂O₄ (256.26). mp 181°C. **Pharm:** Antifungal; allergen (one of allergens in *Hydrangea macrophylla* BA XIAN HUA); cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. **Source:** BA XIAN HUA *Hydrangea macrophylla*, SE BO GE XIU QIU *Hydrangea macrophylla* var. *thunbergii*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. **Ref:** 6, 658, 1521, 3069.

**9701 Hydrangenoside A**

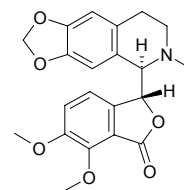
C₃₁H₄₀O₁₃ (620.66). **Pharm:** Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity). **Source:** ZHONG GUO XIU QIU *Hydrangea chinensis* (root). **Ref:** 3069.

**9702 β -Hydrastine**

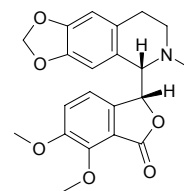
C₂₁H₂₃NO₆ (385.42). mp 130~132°C, [α]_D²⁰ = -57.0° (*c* = 0.2, CHCl₃). **Pharm:** Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 500 μ g/mL, control Chlorhexidine gluconate, MIC = 1.25 μ g/mL; *Fusobacterium nucleatum*, MIC > 500 μ g/mL, Chlorhexidine gluconate, MIC = 2.5 μ g/mL). **Source:** BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root). **Ref:** 5418.

**9703 (1R,9R)-Hydrastine**

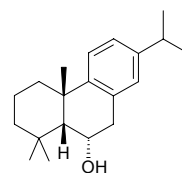
C₂₁H₂₁NO₆ (383.40). Trapezoid prismatic crystals (ethanol), mp 132°C, [α]_D²⁰ = -50° (*c* = 0.3, absolute ethanol); ~12.5 (*c* = 0.4, 97% ethanol). **Pharm:** Antiseptic; hemostatic; mydriatic. **Source:** BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis*. **Ref:** 658, 754.

**9704 D-(1S,9R)-Hydrastine**

C₂₁H₂₁NO₆ (383.40). **Pharm:** anthelmintic (tapeworm, 0.3% solution, death rate = 68.9%~70.2%). **Source:** ZHI LI ZI JIN *Corydalis stricta*. **Ref:** 5501.

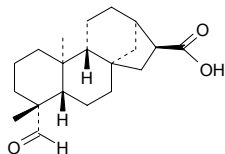
**9705 5 β -Hydro-8,11,13-abietatrien-6 α -ol**

[136378-62-6] C₂₀H₃₀O (286.46). Acicular crystals (petroleum ether), mp 129~130°C, [α]_D²⁶ = +30.8° (*c* = 0.003, chloroform). **Pharm:** Anti-inflammatory (rat, swollen foot model caused by carrageenan, 50mg/kg, InRt = 18.1%). **Source:** HU JI SHENG *Viscum coloratum*. **Ref:** 1039.

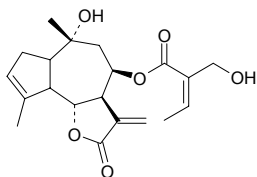


9706 16 α -Hydro-19-*al-ent*-kauran-17-oic acid

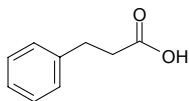
$C_{20}H_{30}O_3$ (318.46). **Pharm:** Platelet aggregation selected inhibitor (washed rabbit platelets, 200 μ mol/L: 100 μ mol/L AA induced, InRt = 100%; 10 μ g/mL collagen induced, InRt = 100%; 1ng/mL PAF induced, InRt = 11.8%; 0.05U/mL thrombin induced, InRt = 6.8%)^[4654]; antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (6.95 \pm 0.39) μ g/mL, p <0.001, control DPI, IC₅₀ = (0.13 \pm 0.06) μ g/mL, p <0.001)^[4950]. **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.20%fw). **Ref:** 4654, 4950.

**9707 1,10-Hydrobahia**

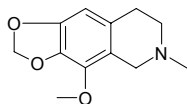
$C_{20}H_{26}O_6$ (362.43). **Source:** HUA ZE LAN *Eupatorium chinense* (whole herb, yield = 0.0036%). **Ref:** 4739.

**9708 Hydrocinnamic acid**

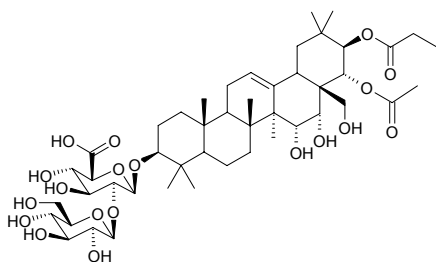
[501-52-0] $C_9H_{10}O_2$ (150.18). mp 48.5°C. **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 6.

**9709 Hydrocotarnine**

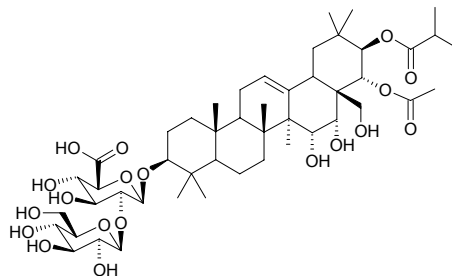
[550-10-7] $C_{12}H_{15}NO_3$ (221.26). mp 55~56°C. **Source:** YA PIAN *Papaver somniferum*. **Ref:** 6.

**9710 Hydrocotyloside I**

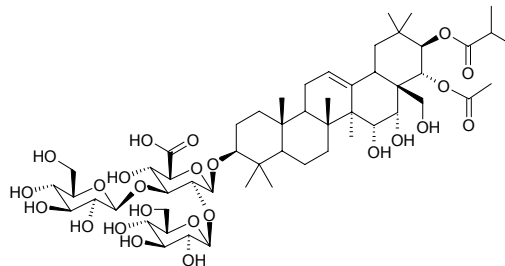
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-propanoyl-3 β ,15 β ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene $C_{47}H_{74}O_{19}$ (943.1). Amorphous powder, $[\alpha]_D^{23} = -1.1^\circ$ ($c = 0.46$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.00051%dw). **Ref:** 3013.

**9711 Hydrocotyloside II**

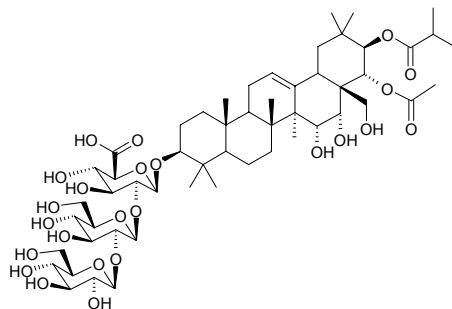
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene $C_{48}H_{76}O_{19}$ (957.13). Amorphous powder, $[\alpha]_D^{23} = -1.5^\circ$ ($c = 0.91$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.011%dw). **Ref:** 3013.

**9712 Hydrocotyloside III**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene $C_{54}H_{86}O_{24}$ (1119.27). Amorphous powder, $[\alpha]_D^{23} = -0.8^\circ$ ($c = 0.86$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.0011%dw). **Ref:** 3013.

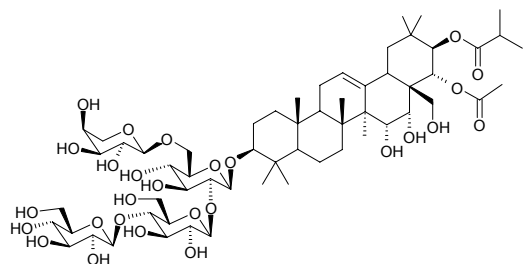
**9713 Hydrocotyloside IV**

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene $C_{54}H_{86}O_{24}$ (1119.27). Amorphous powder, $[\alpha]_D^{23} = -1.1^\circ$ ($c = 0.63$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.0019%dw). **Ref:** 3013.

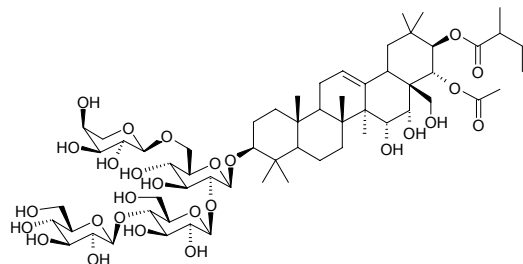


9714 Hydrocotyloside V

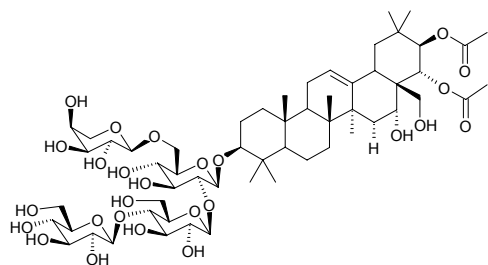
3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene C₅₉H₉₆O₂₇ (1237.41). Amorphous powder, $[\alpha]_D^{23} = -1.5^\circ$ ($c = 0.85$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.0046%dw). **Ref:** 3013.

**9715 Hydrocotyloside VI**

3-*O*- α -[*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-22-*O*-acetyl-21-*O*-(2-methylbutanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene C₆₀H₉₈O₂₇ (1251.43). Amorphous powder, $[\alpha]_D^{23} = -1.2^\circ$ ($c = 0.34$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.00042%dw). **Ref:** 3013.

**9716 Hydrocotyloside VII**

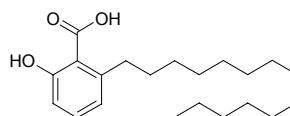
3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-21-*O*-acetyl-22-*O*-acetyl-3 β ,16 α ,21 β ,22 α ,28-pentahydroxyolean-12-ene C₅₇H₉₂O₂₆ (1193.35). Amorphous powder, $[\alpha]_D^{23} = -1.5^\circ$ ($c = 0.81$, MeOH). **Source:** TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = 0.0072%dw). **Ref:** 3013.

**9717 Hydrocyanic acid**

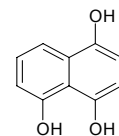
[74-90-8] CHN (27.03). mp -13.3°C , bp 25.7°C . **Source:** BA DAN XING REN *Prunus amygdalus*, CI NAN SHE TENG *Celastrus flagellaris*, DA CHAO CAI *Vicia sativa*, HAI JIU CAI *Triglochin maritimum*, LUO XIN FU *Astilbe chinensis*, MANG GUO HE *Mangifera indica*, MANG GUO YE *Mangifera indica*, PI PA HE *Eriobotrya japonica*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], WU MEI *Prunus mume*, YING TAO *Prunus pseudocerasus*, YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*], YUE SI GUA *Luffa acutangula*. **Ref:** 6, 660.

**9718 Hydroginkgolonic acid**

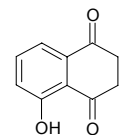
C₂₁H₃₄O₃ (334.50). mp $74\text{--}76^\circ\text{C}$. **Source:** BAI GUO *Ginkgo biloba*. **Ref:** 6.

**9719 α -Hydrojuglone**

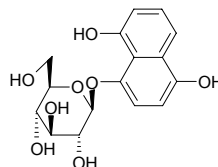
[481-40-3] C₁₀H₈O₃ (176.17). mp $168\text{--}169^\circ\text{C}$. **Pharm:** Hemostatic (rbt, 10mg/kg iv, bleeding time reduced 20%). **Source:** HU TAO REN *Juglans regia*, HU TAO QING PI *Juglans regia*. **Ref:** 6, 658.

**9720 β -Hydrojuglone**

C₁₀H₈O₃ (176.17). mp $96\text{--}97^\circ\text{C}$. **Pharm:** Antibacterial. **Source:** HU TAO REN *Juglans regia*, HU TAO QING PI *Juglans regia*. **Ref:** 6, 658.

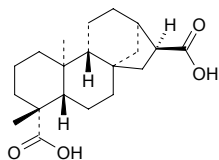
**9721 α -Hydrojuglone glucoside**

C₁₆H₁₈O₈ (338.32). **Source:** HU TAO YE *Juglans regia*. **Ref:** 6.

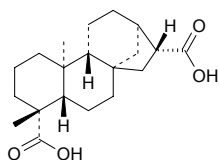


9722 16 α -Hydro-ent-kauran-17,19-dioic acid

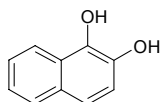
C₂₀H₃₀O₄ (334.46). Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.00033%fw). Ref: 4654.

**9723 16 β -Hydro-ent-kauran-17,19-dioic acid**

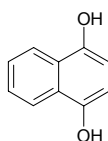
C₂₀H₃₀O₄ (334.46). Pharm: Platelet aggregation selected inhibitor (washed rabbit platelets, 200 μ mol/L: 100 μ mol/L AA induced, InRt = 15.4%; 10 μ g/mL collagen induced, InRt = 56.9%; 1ng/mL PAF induced, InRt = 15.2%; 0.05U/mL thrombin induced, InRt = 6.0%)^[4654]; antioxidant (inhibits superoxide anion generation, fMPLP/CB, IC₅₀ = (3.52 \pm 0.52) μ g/mL, p <0.001, control DPI, IC₅₀ = (0.13 \pm 0.06) μ g/mL, p <0.001)^[4950]. Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.0012%fw). Ref: 4654, 4950.

**9724 1,2-Hydronaphthoquinone**

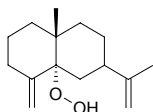
[574-00-5] C₁₀H₈O₂ (160.17). mp 60°C. Source: MAO GAO CAI *Drosera peltata* var. *lunata*. Ref: 6.

**9725 1,4-Hydronaphthoquinone**

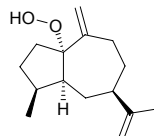
[571-60-8] C₁₀H₈O₂ (160.17). mp 175°C. Source: MAO GAO CAI *Drosera peltata* var. *lunata*. Ref: 6.

**9726 5 α -Hydroperoxy-eudesma-4(15),11-diene**

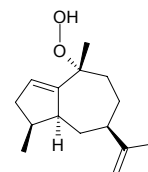
C₁₅H₂₄O₂ (242.36). Colorless oil. Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**9727 1 α -Hydroperoxy-guaia-10(15),11-diene**

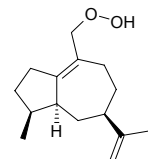
C₁₅H₂₄O₂ (236.36). Colorless oil, [α]_D = +71.8° (c = 0.58, EtOH). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 1.7mmol/L)^[2551]. Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2551.

**9728 10 α -Hydroperoxy-guaia-1,11-diene**

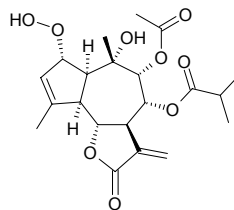
C₁₅H₂₄O₂ (236.36). Colorless oil, [α]_D = +24.5° (c = 0.35, EtOH). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 0.84mmol/L). Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2551.

**9729 15 α -Hydroperoxy-guaia-1(10),11-diene**

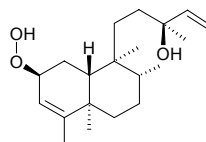
C₁₅H₂₄O₂ (236.36). Colorless oil, [α]_D = +7.3° (c = 0.23, EtOH). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 1.7mmol/L). Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2551.

**9730 2 α -Hydroperoxy-8-O-isobutyryl-9 α -acetoxycumambrin B**

C₂₁H₂₈O₉ (424.45). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

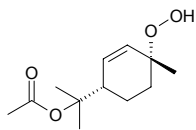
**9731 (-)-2 β -Hydroperoxykolavelool**

C₂₀H₃₄O₃ (322.49). Colorless amorphous solid, [α]_D²⁵ = -20.0° (c = 0.10, CHCl₃). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.

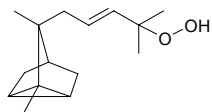


9732 (1R,4S)-1-Hydroperoxy-p-menth-2-en-8-ol acetate

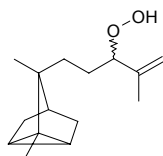
$C_{12}H_{20}O_4$ (228.29). Colorless needles (petroleum ether), mp 87.5~88.5°C, $[\alpha]_D = -7.9^\circ$ ($c = 0.61$, EtOH). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 1.4 $\mu\text{mol/L}$). **Source:** YUE GUI YE *Laurus nobilis*. **Ref:** 4248.

**9733 11-Hydroperoxy- α -santal-9-ene**

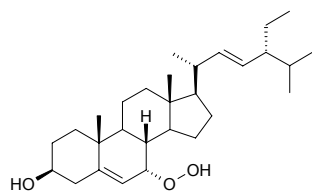
$C_{15}H_{24}O_2$ (236.36). Oil, $[\alpha]_D = +15.0^\circ$ ($c = 2.8$, CHCl_3). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

**9734 10 ξ -Hydroperoxy- α -santal-11-ene**

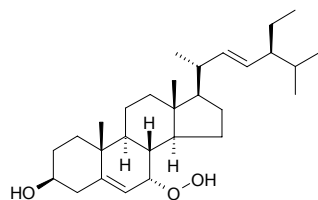
$C_{15}H_{24}O_2$ (236.36). Oil, $[\alpha]_D = -2.8^\circ$ ($c = 0.58$, CHCl_3). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

**9735 (24R)-7 α -Hydroperoxystigmasta-5,22-dien-3 β -ol**

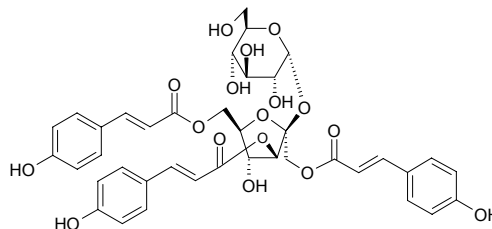
$C_{29}H_{48}O_3$ (444.70). $[\alpha]_D^{21} = -48.3^\circ$ ($c = 0.4$, CHCl_3). **Source:** SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). **Ref:** 5427.

**9736 (22E,24S)-7 α -Hydroperoxystigmasta-5,22-dien-3 β -ol**

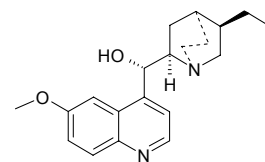
$C_{29}H_{48}O_3$ (444.70). Colorless powder (MeOH), mp 147~150°C, $[\alpha]_D^{21} = -56.5^\circ$ ($c = 0.032$, CHCl_3). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 20 $\mu\text{g/mL}$, 100 $\mu\text{mol/L}$ AA-induced, AggRt = 2.9%, control 50 $\mu\text{mol/L}$ Aspirin, AggRt = 100%; 10 $\mu\text{g/mL}$ collagen-induced, AggRt = 4.7%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 4.9%; 0.1 U/mL thrombin-induced, AggRt = 8.1%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 1.7%; 2 ng/mL PAF-induced, AggRt = 2.9%, 100 $\mu\text{mol/L}$ Aspirin, AggRt = 2.1%). **Source:** SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). **Ref:** 5427.

**9737 Hydropiperoside**

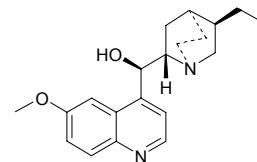
$C_{39}H_{40}O_{17}$ (780.74). Amorphous powder, $[\alpha]_D = 61.86^\circ$ ($c = 0.31$, MeOH). **Source:** SHUI LIAO *Polygonum hydropiper* (root), YU LIAO *Polygonum lapathifolium* (aerial parts). **Ref:** 660, 3091.

**9738 Hydroquinidine**

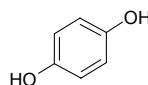
[1435-55-8] $C_{20}H_{26}N_2O_2$ (326.44). mp 168~169°C. **Pharm:** Antiarrhythmic; antimalarial. **Source:** ZHENG JI NA SHU *Cinchona officinalis*, JIN JI LE *Cinchona ledgeriana*. **Ref:** 6, 658.

**9739 Hydroquinine**

[522-66-7] $C_{20}H_{26}N_2O_2$ (326.44). mp 172.3°C. **Pharm:** Antimalarial; decolorant. **Source:** JIN JI LE *Cinchona ledgeriana*. **Ref:** 6, 658.

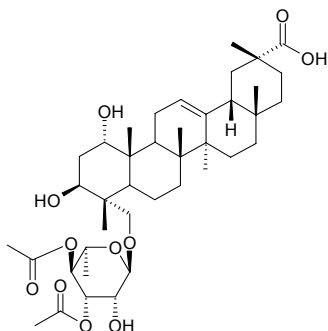
**9740 Hydroquinone**

1,4-Benzenediol; *p*-Quinol [123-31-9] $C_6H_6O_2$ (110.11). mp 170.3°C. **Pharm:** Antibacterial; antineoplastic; antimitotic; cytotoxic (rat, liver carcinoma cells); urease inhibitor; antihypertensive; LD₅₀ (rat, orl) = 320 mg/kg. **Source:** DUO ZHI SONG *Pinus resinosa*, HUI QIN *Pimpinella anisum*, JI SHI TENG *Paederia scandens*, JI SHI TENG GUO *Paederia scandens*, JIA NA DA CANG ER *Xanthium canadense*, MAN SHAN HONG *Rhododendron dauricum*, MI PU LUO TI YA MU *Protea mellifera*, QIAN LI GUANG *Senecio scandens* [Syn. *Senecio chinensis*], XI YANG LI *Pyrus communis*, YUE JU YE *Vaccinium vitis-idaea*. **Ref:** 6, 658.



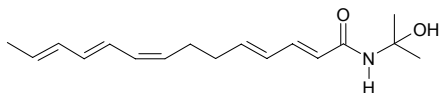
9741 1 α ,3 β -Hydroxyimberbic acid-23-O- α -L-3,4-diacetylramnopyranoside

1 α ,3 β ,23-Trihydroxy-olean-12-en-29-oate-23-O- α -L-3,4-diacetylramnopyranoside C₄₀H₆₂O₁₁ (718.93). Yellow amorphous solid, mp 190°C, [α]_D²⁵ = +56.8° (*c* = 0.22, MeOH). Source: WU MAO FENG CHE ZI *Combretum imberbe*. Ref: 2068.



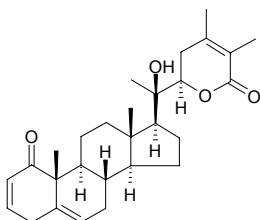
9742 Hydroxy- γ -Sanshool

C₁₇H₂₅NO₂ (275.39). Pharm: Platelet aggregation inhibitor. Source: QUAN YUAN YE HUA JIAO *Zanthoxylum integrifoliolum*. Ref: 2176.



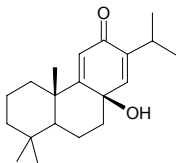
9743 20 β -Hydroxy-1-oxo-(22*R*)-witha-2,5,24-trienolide

C₂₈H₃₈O₄ (438.61). [α]_D²⁵ = +34° (*c* = 0053, CHCl₃). Source: NING GU SHUI QIE *Withania coagulans*. Ref: 3378.



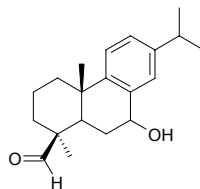
9744 8 β -Hydroxy-9(11),13-abietadien-12-one

C₂₀H₃₀O₂ (302.46). Amorphous solid, mp 180°C, [α]_D²⁵ = -140° (*c* = 1.0, CHCl₃). Source: CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*. Ref: 5401.



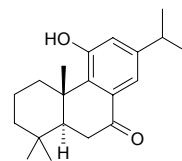
9745 7 β -Hydroxyabieta-8,11,13-trien-19-al

C₂₀H₂₈O₂ (300.44). Oil. Source: LONG BAI *Juniperus chinensis* var. *kaizuka* (leaf: yield = 0.000044%dw). Ref: 3050.



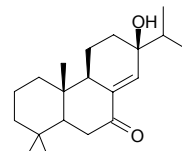
9746 11-Hydroxyabieta-8,11,13-trien-7-one

C₂₀H₂₈O₂ (300.44). Amorphous solid, [α]_D²³ = +22.3° (*c* = 0.3, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4443.



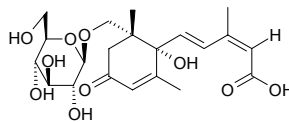
9747 13 β -Hydroxyabiet-8(14)-en-7-one

C₂₀H₃₂O₂ (304.48). Colorless oil, [α]_D = +45.0° (*c* = 0.34, CHCl₃). Pharm: Cytotoxic (A549, IC₅₀ > 5 μ g/mL; H116, IC₅₀ > 5 μ g/mL; PSN1, IC₅₀ > 5 μ g/mL; T98G, IC₅₀ > 5 μ g/mL; SKBR3, IC₅₀ > 5 μ g/mL). Source: BEI FEI XUE SONG *Cedrus atlantica* (cone). Ref: 5248.



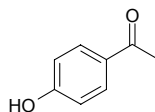
9748 (1'*S*,6'*R*)-8'-Hydroxyabscisic acid β -*D*-glucoside

(1'*S*,6'*R*,2*Z*,4*Z*)-5-[(1'-Hydroxy-2',6'-dimethyl-6'-hydroxymethyl-4'-oxo-8'- β -*D*-glucosyl)-cyclohex-2'-en-1'-yl]-3-methyl-penta-2,4-dienoic acid C₂₁H₃₀O₁₀ (442.47). Ambar gum, [α]_D = +196.5° (*c* = 0.13, MeOH). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (seed). Ref: 3796.



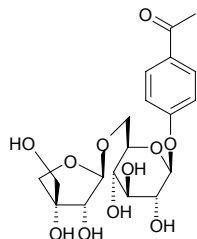
9749 *p*-Hydroxyacetophenone

[99-93-4] C₈H₈O₂ (136.15). mp 109°C. Pharm: Choleric. Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (aerial parts: content scope = 0.005%~0.04%^[5501]). Ref: 2, 6, 5501.



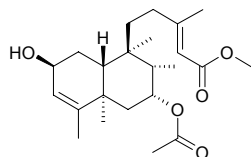
9750 4-Hydroxyacetophenone 4-O-(6-O-β-D-apiofuranosyl)-β-D-glucopyranoside

$C_{19}H_{26}O_{11}$ (430.41). **Pharm:** Antitrypanosomal (*Trypanosoma b. rhodesiense*, $IC_{50} > 100\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 1.06\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 11.2\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$); cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$). **Source:** ZONG KUI CAO SU *Phlomis brunneogaleata*. **Ref:** 5009.



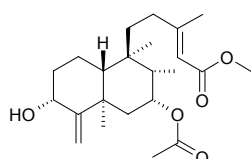
9751 2β-Hydroxy-7-acetoxy-3,13-clerodadien-15-oic acid methyl ester

$C_{23}H_{36}O_5$ (392.54). $[\alpha]_D^{22} = -31.7^\circ$ ($c = 0.59$, CHCl_3). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.



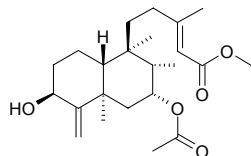
9752 3α-Hydroxy-7-acetoxy-4(18),13-clerodadien-15-oic acid methyl ester

$C_{23}H_{36}O_5$ (392.54). $[\alpha]_D^{24} = -1.7^\circ$ ($c = 0.24$, CHCl_3). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.



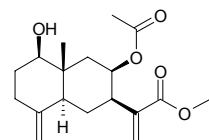
9753 3β-Hydroxy-7-acetoxy-4(18),13-clerodadien-15-oic acid methyl ester

$C_{23}H_{36}O_5$ (392.54). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.



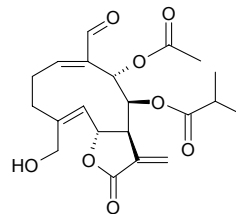
9754 1β-Hydroxy-8β-acetoxycostic acid methyl ester

$C_{18}H_{26}O_5$ (322.40). Colorless gum, $[\alpha]_D^{25} = -38.0^\circ$ ($c = 0.72$, CHCl_3). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 5422.



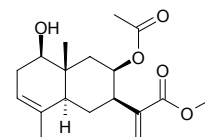
9755 15-Hydroxy-9α-acetoxy-8β-isobutyryloxy-14-oxo-melampolide

$C_{21}H_{26}O_8$ (406.44). **Source:** XI XIAN *Siegesbeckia orientalis*. **Ref:** 660.



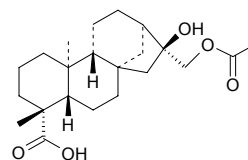
9756 1β-Hydroxy-8β-acetoxyisocostic acid methyl ester

$C_{18}H_{26}O_5$ (322.40). Colorless gum, $[\alpha]_D^{25} = -21.9^\circ$ ($c = 0.42$, CHCl_3). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 5422.



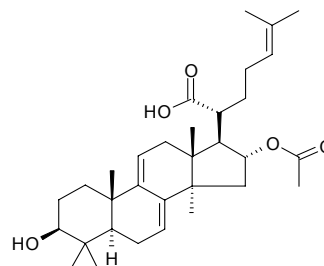
9757 16β-Hydroxy-17-acetoxy-ent-kauran-19-oic acid

$C_{22}H_{34}O_5$ (378.51). **Pharm:** Platelet aggregation selected inhibitor (washed rabbit platelets, $200\mu\text{mol/L}$: $100\mu\text{mol/L}$ AA induced, $\text{InRt} = 10.8\%$; $10\mu\text{g/mL}$ collagen induced, $\text{InRt} = 30.1\%$; 1ng/mL PAF induced, $\text{InRt} = 11.1\%$; 0.05U/mL thrombin induced, $\text{InRt} = 8.0\%$)^[4654]; antioxidant (inhibits superoxide anion generation, fMLP/CB , $IC_{50} = (2.40 \pm 0.16)\mu\text{g/mL}$, $p < 0.001$, control DPI, $IC_{50} = (0.13 \pm 0.06)\mu\text{g/mL}$, $p < 0.001$)^[4950]. **Source:** FAN LI ZHI *Annona squamosa* (stem: yield = 0.00060%fw). **Ref:** 4654, 4950.



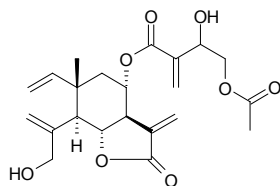
9758 3β-Hydroxy-16α-acetoxy-lanosta-7,9(11),24-trien-21-oic acid

$C_{32}H_{48}O_5$ (512.74). Colorless acicular crystals, mp $269\text{--}270^\circ\text{C}$. **Source:** FU LING *Poria cocos*. **Ref:** 809.



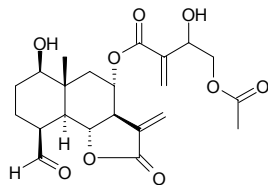
9759 8 α -(3-Hydroxy-4-acetoxy-2-methylene-butanoyloxy)-dehydro-melitensin

C₂₂H₂₈O₈ (420.46). **Pharm:** Antifungal (*Aspergillus niger*, MIC = 0.5 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 0.25 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 0.5 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrocloron*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 0.5 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 0.5 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.03 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). **Source:** *Centaurea thessala* ssp. *drakiensis* (aerial parts). **Ref:** 5115.



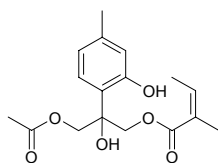
9760 8 α -(3'-Hydroxy-4'-acetoxy-2'-methylene-butanoyloxy)4-epi-sonchucarpolide

C₂₂H₂₈O₉ (436.46). Oil, [α]_D²⁰ = +29.3° (*c* = 0.15, CHCl₃). **Pharm:** Antifungal (*Aspergillus niger*, MIC = 0.5 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 1 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 1 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrocloron*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 1 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.06 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). **Source:** *Centaurea attica* ssp. *attica* (aerial parts). **Ref:** 5115.



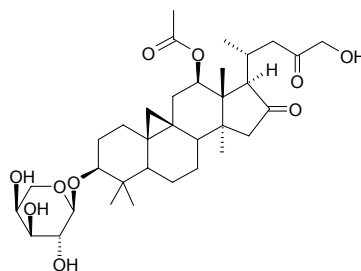
9761 8-Hydroxy-10-acetoxythymol 9-O-angelate

C₁₇H₂₂O₆ (322.36). [α]_D²³ = -7.9° (*c* = 1.2, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.



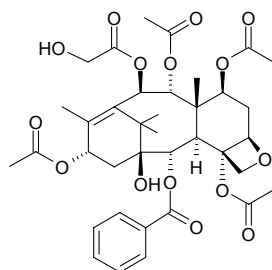
9762 24-Hydroxy-12 β -acetoxy-25,26,27-trinorcyloartan-16,23-dione 3 β -O- α -L-arabinopyranoside

C₃₄H₅₂O₁₀ (620.79). White powder (MeOH), mp 233~235°C. **Source:** XING AN SHENG MA *Cimicifuga dahurica* (rhizome). **Ref:** 4140.



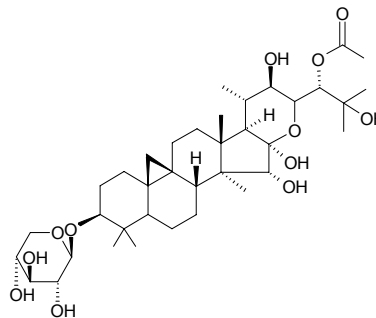
9763 10-Hydroxyacetylbaaccatin VI

C₃₇H₄₆O₁₅ (730.77). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis*. **Ref:** 662.



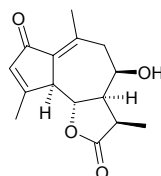
9764 (22R)-22-Hydroxy-24-O-acetylhydroshengmanol 3-O- β -D-xylopyranoside

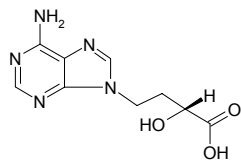
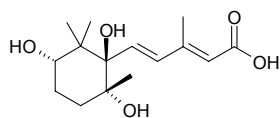
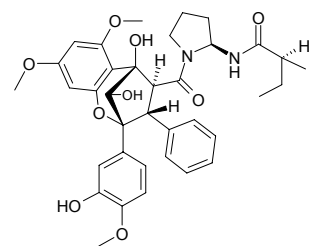
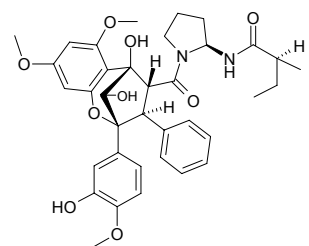
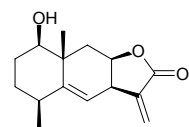
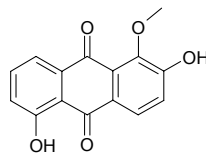
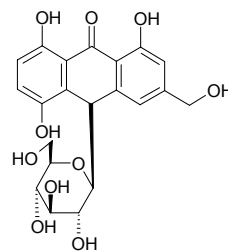
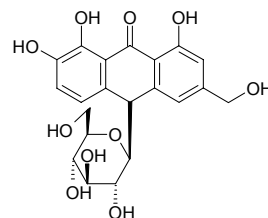
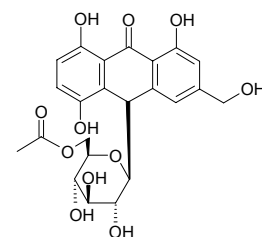
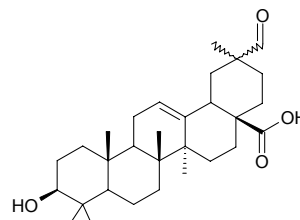
C₃₇H₆₀O₁₂ (696.88). White powder (MeOH), mp 226~228°C. **Source:** SAN MIAN DAO *Cimicifuga acerina*. **Ref:** 873.



9765 Hydroxyachillin

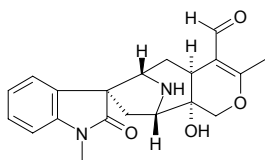
C₁₄H₁₆O₄ (248.28). **Pharm:** NO production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 2.8 μ mol/L or 21.2 μ mol/L); PGE₂ production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 10.8 μ mol/L or 28.6 μ mol/L). **Source:** XIAO YE JU HAO *Tanacetum microphyllum* (aerial parts). **Ref:** 4918.



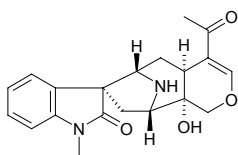
9766 (2R)-Hydroxy-4-(9-adenyl)butyric acidC₉H₁₁N₅O₃ (237.22). Source: XIANG XUN *Lentinus edodes*. Ref: 6.**9767 sec-Hydroxyaegnetic acid**C₁₅H₂₄O₅ (284.36). Source: SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 660.**9768 3'-Hydroxyaglaine B**C₃₆H₄₂N₂O₉ (646.74). [α]_D²⁰ = -11.4° (c = 0.25, CHCl₃). Source: MI ZI LAN *Aglaia odorata*. Ref: 2289.**9769 3'-Hydroxyaglaine C**C₃₆H₄₂N₂O₉ (646.74). [α]_D²⁰ = -103.4° (c = 0.43, CHCl₃). Source: MI ZI LAN *Aglaia odorata*. Ref: 2289.**9770 1β-Hydroxy-alantolactone**C₁₅H₂₀O₃ (248.32). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.**9771 5-Hydroxyalizarin-1-methylether**C₁₅H₁₀O₅ (270.24). Source: HU CI *Dammacanthus indicus*. Ref: 6.**9772 5-Hydroxyaloin A**C₂₁H₂₂O₁₀ (434.4). Source: MA SHI LU HUI *Aloe marlothii*. Ref: 726.**9773 7-Hydroxyaloin A**C₂₁H₂₂O₁₀ (434.40). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2.**9774 5-Hydroxyaloin A 6'-O-acetate**C₂₃H₂₄O₁₁ (476.44). Source: MA SHI LU HUI *Aloe marlothii*. Ref: 726.**9775 3β-Hydroxy-29(or 30)-al-olean-12-en-28-oic acid**C₃₀H₄₆O₄ (470.70). Source: BAI MU TONG *Akebia trifoliata* var. *australis*. Ref: 660.

9776 16-Hydroxylstonal

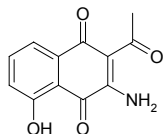
$C_{20}H_{22}N_2O_4$ (354.41). White amorphous powder, $[\alpha]_D^{25} = +153^\circ$ ($c = 0.26$, $CHCl_3$). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf; yield = 0.0036%). **Ref:** 3020.

**9777 16-Hydroxylstonisine**

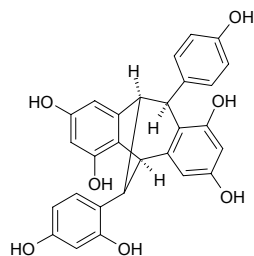
$C_{20}H_{22}N_2O_4$ (354.41). White amorphous powder, $[\alpha]_D^{25} = +170^\circ$ ($c = 0.15$, $CHCl_3$). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf; yield = 0.0016%). **Ref:** 3020.

**9778 5-Hydroxy-3-amino-2-acetyl-1,4-naphthoquinone**

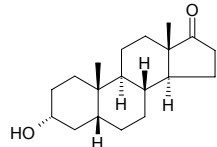
$C_{12}H_9NO_4$ (231.21). **Source:** *Goniothalamus* sp. **Ref:** 2447.

**9779 2b-Hydroxyampelopsin F**

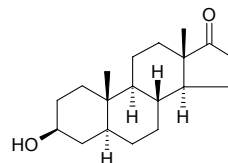
$C_{28}H_{22}O_7$ (470.48). Pale brownish amorphous solid. **Pharm:** Protein glycation (Maillard reaction) inhibitor (10 μ g/mL, InRt = 70%, protein glycation is one of the causes of diabetic complications and aging of the skin)^[3550]. **Source:** MA LAI XI YA MAI MA TENG *Gnetum gnemonoides* (stem), XIAN ZHOU MAI MA TENG *Gnetum gnemon* (root), XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark). **Ref:** 3550, 4200.

**9780 3 α -Hydroxy-5 β -androstan-17-one**

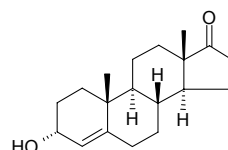
$C_{19}H_{30}O_2$ (290.45). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**9781 3 β -Hydroxy-5 α -androstan-17-one**

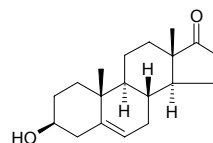
$C_{19}H_{30}O_2$ (290.45). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**9782 3 α -Hydroxy-androst-4-ene-17-one**

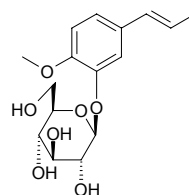
$C_{19}H_{28}O_2$ (288.43). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2, 660.

**9783 3 β -Hydroxy-androst-5-ene-17-one**

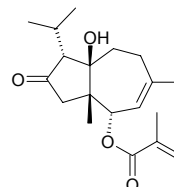
$C_{19}H_{28}O_2$ (288.43). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**9784 (E)-3-Hydroxyanethole β -D-glucopyranoside**

$C_{16}H_{22}O_7$ (326.35). Amorphous powder, $[\alpha]_D^{23} = -28^\circ$ ($c = 0.4$, MeOH). **Source:** HUI QIN *Pimpinella anisum* (fruit). **Ref:** 3402.

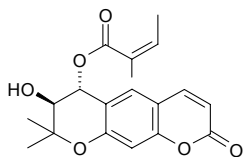
**9785 5 β -Hydroxy-10 α -O-angeloyl-3-oxodauc-8-ene**

$C_{20}H_{30}O_4$ (334.46). Colorless cubes (EtOAc), mp 62~63°C, $[\alpha]_D^{21} = -222.56^\circ$ ($c = 1.22$, $CHCl_3$). **Source:** DIAN QIN *Sinodielsia yunnanensis* (root and rhizome). **Ref:** 5470.

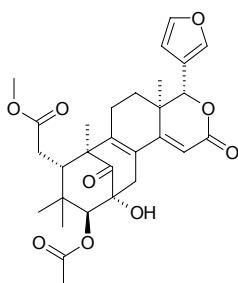


9786 3'(S)-Hydroxy-4'(R)-angeloyloxy-3',4'-dihydroxanthyletin

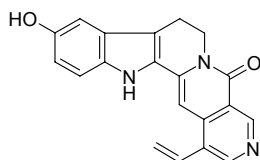
$C_{19}H_{20}O_6$ (344.37). White powder, mp 100~102°C. Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 874.

**9787 2-Hydroxyangustidenolide**

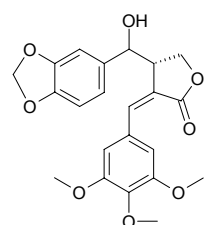
[26906-60-5] $C_{29}H_{34}O_9$ (526.59). Crystals (MeOH), mp 210~220°C, $[\alpha]_D = +101^\circ$ ($c = 2$, $CHCl_3$). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*] Ref: 2082.

**9788 10-Hydroxyangustine**

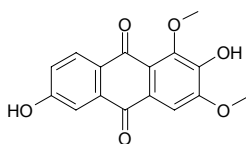
$C_{20}H_{15}N_3O_2$ (329.36). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178.

**9789 7-Hydroxyanthropodorhizol**

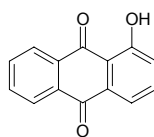
$C_{22}H_{22}O_8$ (414.42). Source: E SHEN *Anthriscus sylvestris*. Ref: 5499.

**9790 6-Hydroxy-anthragalol-1,3-dimethylether**

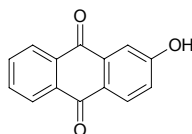
$C_{16}H_{12}O_6$ (300.27). Source: HAI BA JI *Morinda citrifolia* (fruit). Ref: 4542.

**9791 α -Hydroxyanthraquinone**

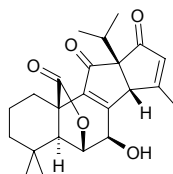
[129-43-1] $C_{14}H_8O_3$ (224.22). mp 193°C (sub). Source: BA JI TIAN *Morinda officinalis*, WANG JIANG NAN *Cassia occidentalis*. Ref: 6, 228.

**9792 2-Hydroxyanthraquinone**

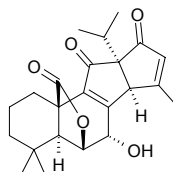
[605-32-3] $C_{14}H_8O_3$ (224.22). mp 306°C, 320°C. Source: YANG JIAO TENG *Morinda umbellata*. Ref: 6.

**9793 *rel*-(5S,6S,7R,10R,12S,13R)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide**

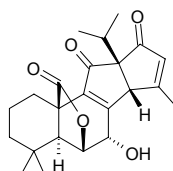
$C_{23}H_{28}O_5$ (384.48). Amorphous solid, $[\alpha]_D^{27} = +89.2^\circ$ ($c = 0.251$, $CHCl_3$). Source: YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 5226.

**9794 *rel*-(5S,6S,7S,10R,12R,13S)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide**

$C_{23}H_{28}O_5$ (384.48). Amorphous solid, $[\alpha]_D^{27} = +18.8^\circ$ ($c = 0.136$, $CHCl_3$). Source: YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 5226.

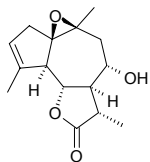
**9795 *rel*-(5S,6S,7S,10R,12S,13R)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide**

$C_{23}H_{28}O_5$ (384.48). Colorless needles (benzene-acetone), mp 245°C, $[\alpha]_D^{27} = +131.3^\circ$ ($c = 0.420$, $CHCl_3$). Source: YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 5226.

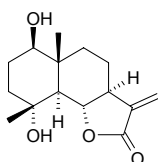


9796 8 α -Hydroxyarborescin

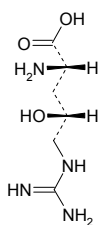
C₁₅H₂₂O₄ (264.32). Source: YI KUA *Artemisia myriantha* (aerial parts). Ref: 4618.

**9797 1 β -Hydroxyarbusculin A**

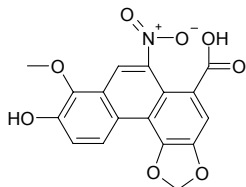
C₁₅H₂₂O₄ (266.34). Colorless acicular crystals, mp 194~196°C. Source: YUN NAN HAN XIAO *Michelia yunnanensis*. Ref: 426.

**9798 γ -Hydroxyarginine**

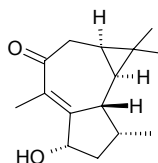
[61370-10-3] C₆H₁₄N₄O₃ (190.20). Pharm: Enzymatic substrate (arginase, arginine decarboxylase, *L*-amino-acidoxidase); germination inhibitor (toxic to plants). Source: DA CHAO CAI *Vicia sativa*, BING DOU *Lens culinaris*, *Vicia* sp. Ref: 6, 658, 1521.

**9799 7-Hydroxy-aristolochic acid A**

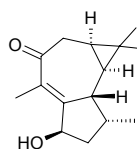
[79185-75-4] C₁₇H₁₁NO₈ (357.28). Source: MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*], HAN FANG JI *Aristolochia heterophylla*. Ref: 517, 660.

**9800 2 α -Hydroxyaromadendr-1(10)-en-9-one**

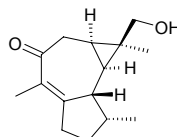
C₁₅H₂₂O₂ (234.34). Cubes (acetone), mp 72~74°C, [α]_D²⁵ = -91° (*c* = 18.6, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 0%, 48h mortality = 30%, 72h mortality = 80%). Source: *Curvularia lunata*. Ref: 5140.

**9801 2 β -Hydroxyaromadendr-1(10)-en-9-one**

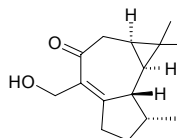
C₁₅H₂₂O₂ (234.34). Cubes (acetone), mp 85~86°C, [α]_D²⁵ = -186° (*c* = 6.3, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 0%, 48h mortality = 30%, 72h mortality = 100%). Source: *Curvularia lunata*. Ref: 5140.

**9802 13-Hydroxyaromadendr-1(10)-en-9-one**

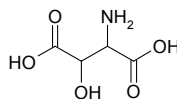
C₁₅H₂₂O₂ (234.34). Oil, [α]_D²⁵ = -118° (*c* = 4.4, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 10%, 48h mortality = 40%, 72h mortality = 100%). Source: *Curvularia lunata*. Ref: 5140.

**9803 14-Hydroxyaromadendr-1(10)-en-9-one**

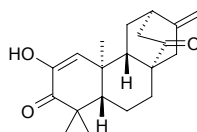
C₁₅H₂₂O₂ (234.34). Cubes (EtOH), mp 61~62°C, [α]_D²⁵ = -98° (*c* = 3.9, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 0%, 48h mortality = 30%, 72h mortality = 80%). Source: *Curvularia lunata*. Ref: 5140.

**9804 erythro- β -Hydroxy-*L*-aspartic acid**

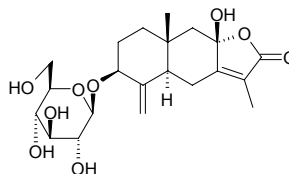
[4294-45-5] C₄H₇NO₃ (149.10). mp 210°C. Source: ZI YUN YING ZI *Astragalus sinicus*. Ref: 6.

**9805 ent-2-Hydroxyatis-1,16(17)-dien-3,14-dione**

C₂₀H₂₆O₃ (314.43). White powder. Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4585.

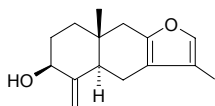
**9806 (3*S*)-3-Hydroxyatractylenolide III 3-*O*- β -D-glucopyranoside**

C₂₁H₃₀O₉ (426.47). Amorphous powder, [α]_D²² = +95° (*c* = 1.1, MeOH). Source: GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310.

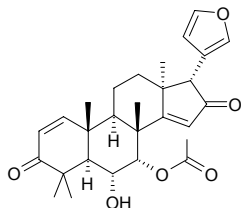


9807 3 β -Hydroxyatractylone

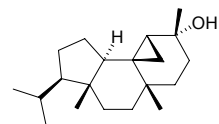
$C_{15}H_{20}O_2$ (232.33). **Source:** CANG ZHU *Atractylodes lancea*. **Ref:** 2.

**9808 6 α -Hydroxyazadiradione**

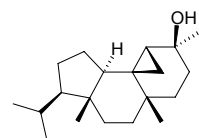
$C_{28}H_{34}O_6$ (466.58). Pale yellow gum, $[\alpha]_D = +23^\circ$ ($c = 0.312$, $CHCl_3$). **Source:** *Quivisia papinae* (seed). **Ref:** 3759.

**9809 13 α -Hydroxyazorellane**

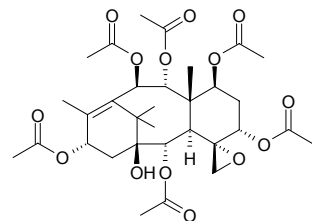
$C_{20}H_{34}O$ (290.49). **Pharm:** Trichomonocidal (*Trichomonas vaginalis*, $LD_{50} = 119\mu\text{mol/L}$). **Source:** *Azorella yareta* (aerial parts). **Ref:** 5125.

**9810 13 β -Hydroxyazorellane**

$C_{20}H_{34}O$ (290.49). Needles, mp 95–96°C (petrol–EtOAc), $[\alpha]_D^{24} = +17.2^\circ$ ($c = 0.23$, $CHCl_3$). **Pharm:** Trichomonocidal (*Trichomonas vaginalis*, $LD_{50} = 100\mu\text{mol/L}$). **Source:** *Azorella yareta* (aerial parts). **Ref:** 5125.

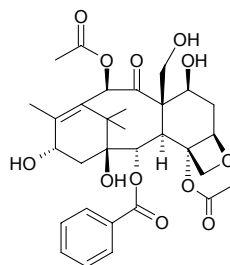
**9811 1 β -Hydroxybaccatin I**

[30244-37-2] $C_{32}H_{44}O_{14}$ (652.70). **Pharm:** Antioxidant (DPPH free radical scavenger, $IC_{50} > 200\mu\text{mol/L}$, control Caffeic acid, $IC_{50} = 25.5\mu\text{mol/L}$); NO production inhibitor ($IC_{50} = 92.0\mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 28.5\mu\text{mol/L}$)^[5407]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). **Ref:** 300, 662, 5407.

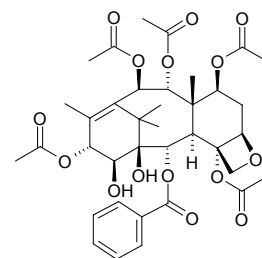
**9812 19-Hydroxybaccatin III**

$C_{31}H_{38}O_{12}$ (602.64). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu\text{g/mL}$: A498, InRt = 26.7%; NCI-H226, InRt = 44.6%; A549, InRt = 0%; PC3, InRt = 47.7%; control Taxol, 30 $\mu\text{g/mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. **Source:** JIANG GUO ZI

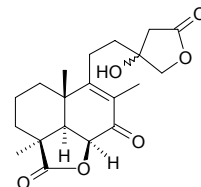
SHAN *Taxus baccata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00002%dw)^[4666, 4800], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662, 4666, 4800.

**9813 14 β -Hydroxybaccatin VI**

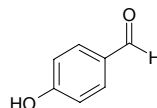
$C_{37}H_{46}O_{15}$ (730.77). Colorless needles, mp 241–243°C $[\alpha]_D^{15.8} = +9.42^\circ$ ($c = 0.57$, MeOH). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 2488.

**9814 13-Hydroxy ballonigrinolide**

[71135-32-5] $C_{20}H_{26}O_6$ (362.43). White crystals. **Source:** BO SI YI MU CAO *Leonurus persicus*. **Ref:** 2499.

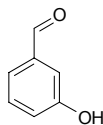
**9815 *p*-Hydroxybenzaldehyde**

[123-08-0] $C_7H_6O_2$ (122.12). **Pharm:** Cytotoxic inactive (Colon26-L5, HT1080, 100 $\mu\text{mol/L}$)^[3042]; cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. **Source:** ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.000028%dw)^[4758], KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], MU ZEI *Equisetum hiemale*, PI JIU HUA *Humulus lupulus* (strobile)^[4789], PU HUANG *Typha angustata*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SANG HUANG *Phellinus ignarius* (sporocarp: yield = 0.00066%dw)^[4747], TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00015%dw)^[4722], TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TIAN MA *Gastrodia elata*, YI ZHU QIAN MA *Urtica dioica*, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00193%)^[3042], ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. **Ref:** 2, 660, 3042, 3069, 4488, 4502, 4676, 4722, 4747, 4758, 4789.

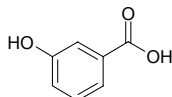


9816 *m*-Hydroxybenzaldehyde

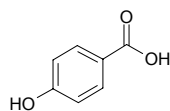
$C_7H_6O_2$ (122.12). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.

**9817 *m*-Hydroxybenzoic acid**

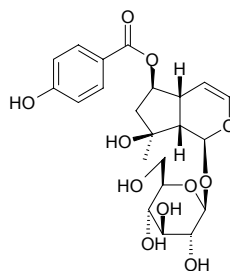
m-Salicylic acid [99-06-9] $C_7H_6O_3$ (138.12). Source: MU ZEI *Equisetum hiemale*. Ref: 2.

**9818 *p*-Hydroxybenzoic acid**

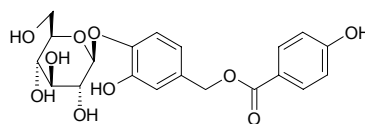
p-Salicylic acid [99-96-7] $C_7H_6O_3$ (138.12). White crystals (water), mp 216–218°C. Pharm: Prostaglandin synthetase activator; antimutagenic; antidote (mus, cobra-poisoning); inhibits sickling action of cells; NO production inhibitor inactive (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 150\mu\text{g/mL}$, control *L*-NMMA, $IC_{50} = 27.4\mu\text{g/mL}$)^[4473]; antioxidant (DPPH scavenger, $IC_{50} = 87.6\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 27.0\mu\text{mol/L}$)^[4502]. Source: BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*], DA CHE QIAN *Plantago major*, DUO HUA SHAO YAO *Paeonia emodi* (fruit), ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.000042%dw)^[4758], GE YE MI HOU TAO *Actinidia rubricaulis* var. *coriacea* (ripe fruit: content = 0.19%)^[5508], GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00001%)^[4706], HE SE ZHONG HUA SHU *Tabebuia avellanadae* (inner bark), HONG HUA JIAO *Zanthoxylum rubescens*, HUA NAN MI HOU TAO *Actinidia glaucophylla* (ripe fruit: content = 0.17%)^[5508], JI MAO SONG *Podocarpus imbricatus*, JIN HUA MI HOU TAO *Actinidia chrysantha* (ripe fruit: content = 0.24%)^[5508], JIN HUANG GE JUN *Thelephora aurantiotincta*, JING LI MI HOU TAO *Actinidia callosa* var. *henryi* (ripe fruit: content = 0.24%)^[5508], KUO YE MI HOU TAO *Actinidia latifolia* (ripe fruit: content = 0.14%)^[5508], LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, MAN JING ZI *Vitex trifolia*, MAO HUA MI HOU TAO *Actinidia eriantha* (ripe fruit: content = 0.08%)^[5508], MEI WEI MI HOU TAO *Actinidia deliciosa* (ripe fruit: content = 0.25%)^[5508], MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00055%)^[4733], MI HOU LI *Actinidia arguta* (ripe fruit: content = 0.17%)^[5508], MI HOU TAO *Actinidia chinensis* (ripe fruit: content = 0.23%)^[5508], MU TIAN LIAO *Actinidia polygama* (ripe fruit: content = 0.09%)^[5508], MU ZEI *Equisetum hiemale*, MU ZEI MA HUANG *Ephedra equisetina*, PU⁽²⁾ TAO *Vitis vinifera*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SI ZI TAN *Pterocarpus santalinus*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00037%dw)^[4722], TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], XUAN FU HUA *Inula britannica*, ZANG HONG HUA *Crocus sativus* (pollen), ZONG LV PI *Trachycarpus fortunei* (petiole and fibre of sheath, roasted petiole: mean content of 5 origins = 1.14%)^[5508], occurs in many plants. Ref: 2, 415, 544, 562, 594, 658, 660, 2529, 3423, 3802, 4233, 4473, 4488, 4502, 4544, 4706, 4722, 4733, 4758, 5508.

**9819 6-O-(4-Hydroxybenzoyl)-ajugol**

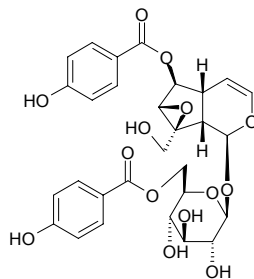
$C_{22}H_{28}O_{11}$ (468.46). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 26.1\mu\text{g/mL}$, control *L*-NMMA, $IC_{50} = 27.4\mu\text{g/mL}$)^[4473]. Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], HE SE ZHONG HUA SHU *Tabebuia avellanadae* (inner bark). Ref: 2, 4473.

**9820 *p*-Hydroxybenzoyl calleryanin**

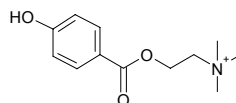
$C_{20}H_{22}O_{10}$ (422.39). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

**9821 6'-O-*p*-Hydroxybenzoylcatalposide**

$C_{29}H_{30}O_{14}$ (602.55). Amorphous powder, $[\alpha]_D^{25} = -123.5^\circ$ ($c = 0.2$, MeOH). Source: ZI YE *Catalpa ovata* (leaf, fallen leaf). Ref: 3536, 4290.

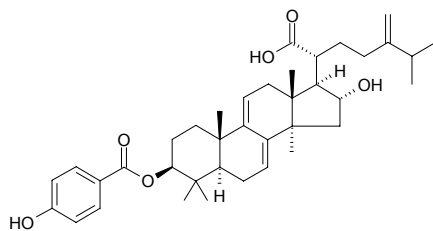
**9822 4-Hydroxybenzoyl choline**

$C_{12}H_{18}NO_3^+$ (224.28). Source: BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*]. Ref: 660.

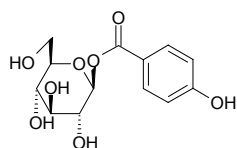


9823 3 β -p-Hydroxybenzoyldehydrotumulosic acid

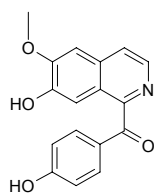
[213764-76-2] C₃₈H₅₂O₆ (604.83). Colorless acicular crystals (pyridine-*n*-hexane), mp 242~244°C, [α]_D = 40° (*c* = 0.2, MeOH). Source: FU LING *Poria cocos*. Ref: 711.

**9824 1-O-(4-Hydroxybenzoyl)- β -D-glucose**

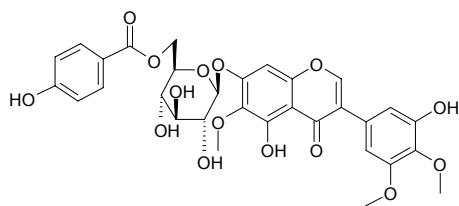
C₁₃H₁₆O₈ (300.27). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**9825 1-(4-Hydroxybenzoyl)-7-hydroxy-6-methoxyisoquinoline**

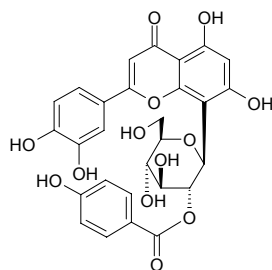
C₁₇H₁₃NO₄ (295.30). Red needles, mp 230~232°C. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3792.

**9826 6''-O-p-Hydroxybenzoyliridin**

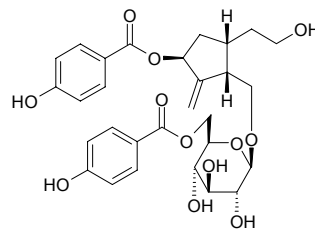
C₃₁H₃₀O₁₅ (642.58). Pale yellow amorphous powder, [α]_D = +3.4° (*c* = 0.5, MeOH). Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.

**9827 2''-O-p-Hydroxybenzoylorientin**

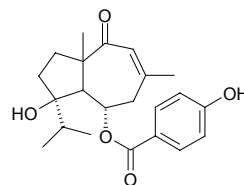
C₂₈H₂₄O₁₃ (568.50). Yellow amorphous powder. Source: ZUI GAO MU JING YE *Vitex altissima* (leaf). Ref: 5309.

**9828 7-O-p-Hydroxybenzoylovatol 1-O-(6'-O-p-hydroxybenzoyl)- β -D-glucopyranoside**

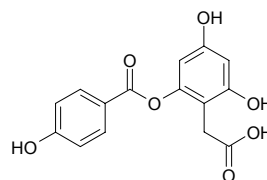
C₂₉H₃₄O₁₂ (574.59). Amorphous powder, [α]_D²⁵ = +22.2° (*c* = 0.3, MeOH). Source: ZI YE *Catalpa ovata* (leaf, fallen leaf). Ref: 3536, 4290.

**9829 5a-p-Hydroxybenzoyloxydauc-2-ene-1-one**

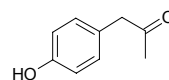
C₂₂H₂₈O₅ (372.47). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**9830 2-O-(4-Hydroxybenzoyl)-2,4,6-trihydroxyphenylacetic acid**

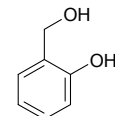
C₁₅H₁₂O₇ (304.26). Solid. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*] (petal). Ref: 4965.

**9831 p-Hydroxybenzyl acetone**

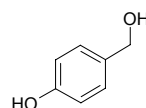
C₉H₁₀O₂ (150.18). Source: BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*]. Ref: 660.

**9832 2-Hydroxybenzyl alcohol**

C₇H₈O₂ (124.14). Source: QIAN MA *Urtica cannabina*. Ref: 660.

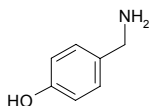
**9833 p-Hydroxybenzyl alcohol**

[623-05-2] C₇H₈O₂ (124.14). Source: SHAN HU LAN *Galeola faberi*, TIAN MA *Gastrodia elata*, YI ZHU QIAN MA *Urtica dioica*. Ref: 2, 280, 660.

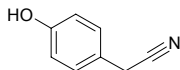


9834 4-Hydroxybenzylamine

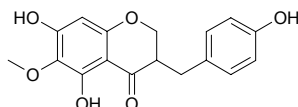
C_7H_9NO (123.16). mp 114–115°C (dec). Source: QIAO MAI *Fagopyrum esculentum*. Ref: 6.

**9835 4-Hydroxybenzyl cyanide**

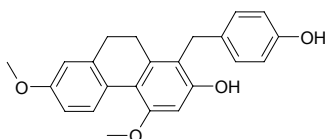
C_8H_7NO (133.15). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

**9836 3-(4-Hydroxybenzyl)-5,7-dihydroxy-6-methoxychroman-4-one**

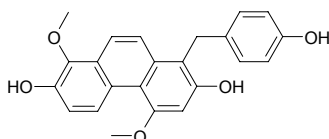
$C_{17}H_{16}O_6$ (316.31). Yellow plates (CH_2Cl_2), mp 189–200°C. Source: *Scilla nervosa* (bulb). Ref: 2381.

**9837 1-(4-Hydroxybenzyl)-4,7-dimethoxy-9,10-dihydrophenanthrene-2-ol**

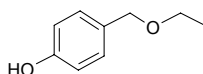
$C_{23}H_{22}O_4$ (362.43). Pale yellow amorphous powder. Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.

**9838 1-(4-Hydroxybenzyl)-4,8-di-methoxyphenanthrene-2,7-diol**

$C_{23}H_{20}O_5$ (376.41). Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.

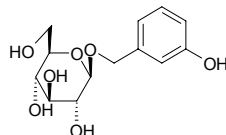
**9839 p-Hydroxybenzyl ethyl ether**

$C_9H_{12}O_2$ (152.19). Source: TIAN MA *Gastrodia elata*. Ref: 2.

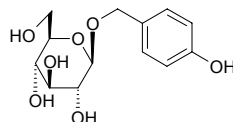
**9840 3-Hydroxybenzyl-1-O-beta-D-glucopyranoside**

$C_{13}H_{18}O_7$ (286.28). Colorless oil. Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt = (10–30)%, 10 μmol/L, StRt = (10–30)%, 100 μmol/L, StRt or InRt < 10%, 1 mmol/L, StRt or InRt < 10%; *Raphanus sativus*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, InRt = (10–30)%, 1 mmol/L, InRt = (10–30)%; *Allium cepa*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, StRt or

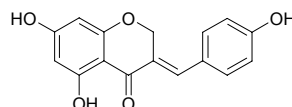
InRt < 10%, 100 μmol/L, StRt or InRt < 10%, 1 mmol/L, InRt = (10–30)%)^[5217]. Source: RI BEN ZHANG YA CAI *Swertia japonica*, XI YANG JIE GU MU *Sambucus nigra*. Ref: 2528, 5217.

**9841 4-Hydroxybenzyl-O-beta-D-glucopyranoside**

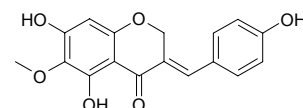
$C_{13}H_{18}O_7$ (286.28). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

**9842 3-(4-Hydroxybenzylidene)-5,7-dihydroxychroman-4-one**

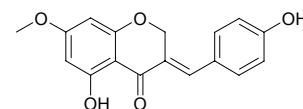
$C_{16}H_{12}O_5$ (284.27). Yellow powder, mp 208–211°C. Source: *Scilla nervosa* (bulb). Ref: 2381.

**9843 3-(4-Hydroxybenzylidene)-5,7-dihydroxy-6-methoxychroman-4-one**

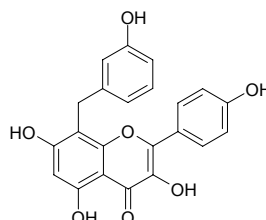
$C_{17}H_{14}O_6$ (314.30). Yellow powder, mp 242–245°C. Source: *Scilla nervosa* (bulb). Ref: 2381.

**9844 3-(4-Hydroxybenzylidene)-5-hydroxy-7-methoxychroman-4-one**

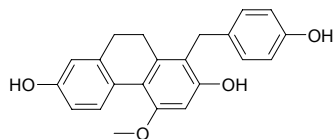
$C_{17}H_{14}O_5$ (298.30). Yellow gum. Source: *Scilla nervosa* (bulb). Ref: 2381.

**9845 8-C-p-Hydroxybenzylkaempferol**

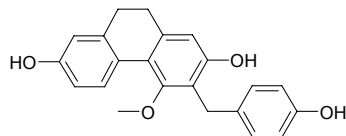
$C_{22}H_{16}O_7$ (392.37). Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.



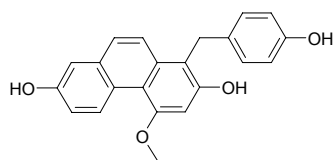
9846 1-(*p*-Hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol
 $C_{22}H_{20}O_4$ (348.40). Colorless needles. **Pharm:** Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (80.4 \pm 3.3) μ mol/L, $p < 0.01$; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, $p < 0.01$)^[5022]. **Source:** LAN YU BAI JI *Bletilla formosana* (whole herb), SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 4500, 5022.



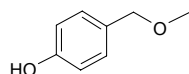
9847 3-(*p*-Hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol
 $C_{22}H_{20}O_4$ (348.40). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.



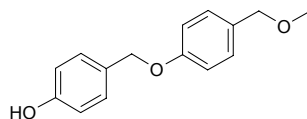
9848 1-*p*-Hydroxybenzyl-4-methoxyphenanthrene-2,7-diol
 $C_{22}H_{18}O_4$ (346.39). Yellow needles. **Pharm:** Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (97.5 \pm 1.1) μ mol/L, $p < 0.01$; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, $p < 0.01$)^[5022]. **Source:** BAI JI *Bletilla striata*, LAN YU BAI JI *Bletilla formosana* (whole herb), SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 660, 4500, 5022.



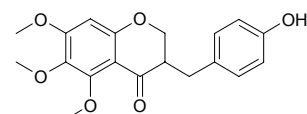
9849 4-Hydroxybenzyl methyl ether
 $C_8H_{10}O_2$ (138.17). **Source:** TIAN MA *Gastrodia elata*. **Ref:** 2.



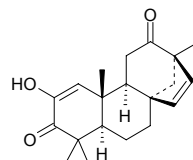
9850 4-(4'-Hydroxybenzyloxy)benzyl methyl ether
 $C_{15}H_{16}O_3$ (244.29). **Source:** TIAN MA *Gastrodia elata*. **Ref:** 2.



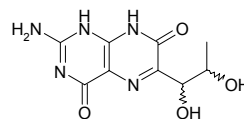
9851 3-(4-Hydroxybenzyl)-5,6,7-trimethoxychroman-4-one
 $C_{19}H_{20}O_6$ (344.37). Yellow oil, $[\alpha]_D^{25} = -231.9^\circ$ ($c = 0.13$, MeOH). **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.



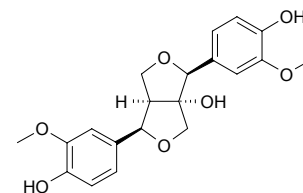
9852 2-Hydroxy-1,15-beyeradiene-3,12-dione
 $C_{20}H_{26}O_3$ (314.43). Colorless oil, $[\alpha]_D^{25} = -22.4^\circ$ ($c = 0.53$, $CHCl_3$). **Source:** HAI QI *Excoecaria agallocha* (root: yield = 0.0018%dw). **Ref:** 4613.



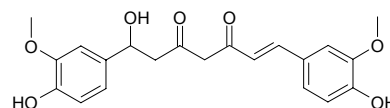
9853 7-Hydroxybiopterin
 Ichthyopterin [490-58-4] $C_9H_{11}N_5O_4$ (253.22). mp > 300°C (dec). **Source:** JIN YU *Carassius auratus*, QING WA *Rana nigromaculata*; *Rana plancyi*. **Ref:** 6.



9854 (+)-1-Hydroxy-2,6-bis-epi-pinoresinol
 $C_{20}H_{22}O_7$ (374.39). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 127 μ g/mL, cytotoxic, Vero cells, IC₅₀ = 91.0 μ g/mL, SI (IC₅₀/MIC) = 0.72, positive control Rifampin, MIC = 0.03 μ g/mL, IC₅₀ = 98.3 μ g/mL, SI = 3300). **Source:** SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). **Ref:** 4986.

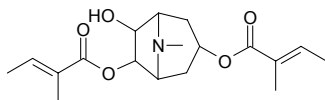


9855 1 ζ -Hydroxy-1,7-bis(4-hydroxy-3-methoxyphenyl)-6-heptene-3,5-dione
 1 ζ -Hydroxydihydrocurcumin $C_{21}H_{22}O_7$ (386.41). Yellow powder, mp 92~94°C. **Pharm:** Neuroprotective (*in vitro* protects PC12 cells from β -Amyloid insult: anti- β A(25-35), ED₅₀ = (30.7 \pm 3.3) μ g/mL; anti- β A(1-41), ED₅₀ = (44.3 \pm 3.1) μ g/mL; control Congo red: anti- β A(25-35), ED₅₀ = (37.5 \pm 5.4) μ g/mL; anti- β A(1-41), ED₅₀ = (39.2 \pm 5.2) μ g/mL)^[4643]. **Source:** GAO LIANG JIANG *Alpinia officinarum*, JIANG HUANG *Curcuma longa* (turmeric powder: yield = 0.00008%dw). **Ref:** 660, 4643.

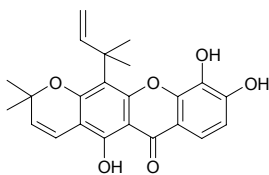


9856 7-Hydroxy-3,6-bis(tigloyloxy)tropane

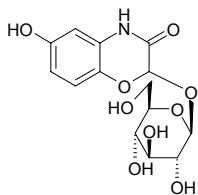
$C_{18}H_{27}NO_5$ (337.42). Source: MAO MAN TUO LUO GEN *Datura innoxia*.
Ref: 6, 660.

**9857 3-Hydroxyblancoxanthone**

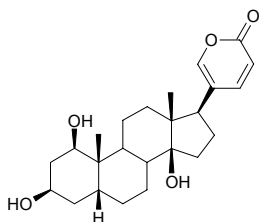
Macluraxanthone $C_{23}H_{22}O_6$ (394.43). Yellowish powder. Pharm: Antimalarial; anthelmintic (termites); larvicide (toxic to mosquito larvae); cytotoxic (HSC-2 cells, $CC_{50} > 0.51$ mmol/L; HGF, $CC_{50} > 0.51$ mmol/L)^[3025]; antibacterial inactive (*Staphylococcus aureus*, 20µg/disk; *Escherichia coli*, 20µg/disk; *Vibrio anguillarum*, 20µg/disk)^[3866]; antifungal inactive (*Candida tropicalis*, 20µg/disk)^[3866]; antioxidant (DPPDPPH scavenger, 50µmol/L, ScRt = 75.9%, $IC_{50} = 19.0$ µmol/L; control BHT, 50µmol/L, ScRt = 51.7%, $IC_{50} = 28.9$ µmol/L)^[4423]. Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00006%dw), HAI TANG GUO *Calophyllum inophyllum* (root cortex and nuts), HUANG NIU MU *Cratoxylum cochinchinense* (root), LUAN YE TENG HUANG *Garcinia ovalifolia*, SANG CHENG *Maclura pomifera*, *Calophyllum blancoi* (root). Ref: 658, 3025, 3866, 4441, 4423.

**9858 6-Hydroxy blepharin**

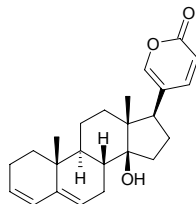
2-*O*-β-*D*-Glucopyranosyl-6-hydroxy-2*H*-1,4-benzoxazin-3(4*H*)-one
 $C_{14}H_{17}NO_9$ (343.29). White solid. Source: YOU CHOU YE ZHI MA *Lamium galeobdolon* (aerial parts). Ref: 3504.

**9859 1β-Hydroxybufalin**

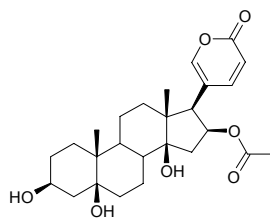
$C_{24}H_{34}O_5$ (402.54). Colorless solid, $[\alpha]_D^{21} = -18.7^\circ$ ($c = 0.1$, CH_3OH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 0.19$ µg/mL; HL-60, $IC_{50} < 0.01$ µg/mL; MH-60, $IC_{50} > 25$ µg/mL; BXPC3, $IC_{50} = 0.024$ µg/mL; MCF7, $IC_{50} = 0.012$ µg/mL; SF268, $IC_{50} = 0.0044$ µg/mL; NCI-H460, $IC_{50} = 0.014$ µg/mL; KM20L2, $IC_{50} = 0.011$ µg/mL; DU145, $IC_{50} = 0.005$ µg/mL). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.

**9860 14β-Hydroxybufa-3,5,20,22-tetraenolide**

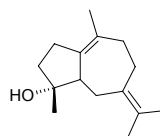
$C_{24}H_{30}O_3$ (366.50). Off-white powdery solid, mp 215–217°C. Source: CHU TU HAI CONG *Urginea epigea* (bulb). Ref: 3882.

**9861 5β-Hydroxybufotalin**

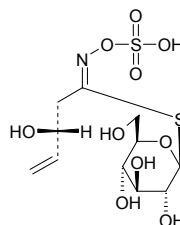
$C_{26}H_{36}O_7$ (460.57). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 0.2$ µg/mL; HL-60, $IC_{50} < 0.01$ µg/mL; MH-60, $IC_{50} > 25$ µg/mL; BXPC3, $IC_{50} = 0.11$ µg/mL; MCF7, $IC_{50} = 0.046$ µg/mL; SF268, $IC_{50} = 0.033$ µg/mL; NCI-H460, $IC_{50} = 0.048$ µg/mL; KM20L2, $IC_{50} = 0.034$ µg/mL; DU145, $IC_{50} = 0.024$ µg/mL). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.

**9862 4-Hydroxy-β-bulnesene**

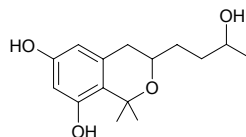
$C_{15}H_{24}O$ (220.36). Source: SHUANG YE XI XIN *Asarum caulescens*. Ref: 660.

**9863 2-Hydroxybut-3-enyl glucosinolate**

Progoitrin $C_{11}H_{19}NO_{10}S_2$ (389.40). Source: JIE CAI *Brassica juncea*. Ref: 660.

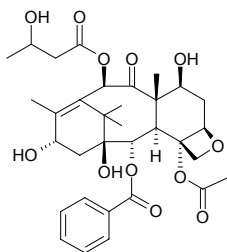
**9864 3-(3-Hydroxybutyl)-1,1-dimethylisochroman-6,8-diol**

$C_{15}H_{22}O_4$ (266.34). White solid, $[\alpha]_D^{20} = -10.0^\circ$ ($c = 0.05$, MeOH). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem). Ref: 5057.

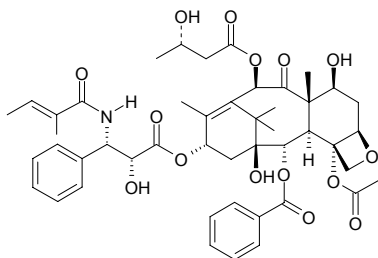


9865 10-(β -Hydroxybutyryl)-10-deacetylbaccatin I

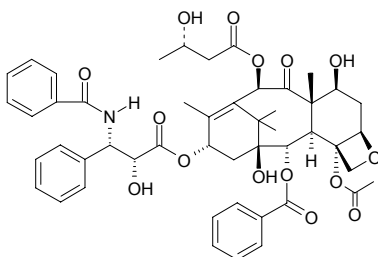
$C_{33}H_{42}O_{12}$ (630.70). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**9866 10-(β -Hydroxybutyryl)-10-deacetylcephalomannine**

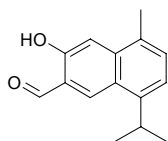
$C_{49}H_{57}NO_{15}$ (875.98). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**9867 10-(β -Hydroxybutyryl)-10-deacetyltaxol**

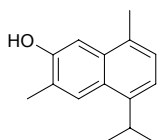
$C_{49}H_{55}NO_{15}$ (897.98). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**9868 7-Hydroxycadalenal**

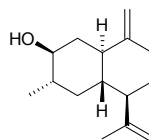
$C_{15}H_{16}O_2$ (228.29). mp 85°C. Source: LANG YU PI *Ulmus parvifolia*. Ref: 6.

**9869 7-Hydroxycadalene**

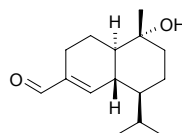
7-Hydroxycadalene [2102-75-2] $C_{15}H_{18}O$ (214.31). White rhombic crystals (hexane), mp 118.0–119.5°C. Pharm: Antibacterial (gram-positive bacteria, MIC = 6.25–12.5 μ g/mL); antioxidant (10 μ g/mL, InRt = 70%); cytotoxic (HeLa, IC₅₀ = 1.96 μ g/mL, BT-20, IC₅₀ = 2.86 μ g/mL). Source: JI SU ZI *Cornus capitata* [Syn. *Dendrobenthamia capitata*], MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*]. Ref: 1066, 1083, 1142, 1143.

**9870 (4S)-3 β -Hydroxycadina-10(15),12(13)-diene**

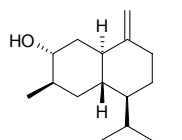
$C_{15}H_{24}O$ (220.36). Amorphous crystals, mp 79–83°C, [α]_D = +121° (c = 0.015, CHCl₃). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 0%, 48h mortality = 15%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). Source: BAI JIANG JUN *Beauveria bassiana*. Ref: 3949.

**9871 10 α -Hydroxycadin-4-en-15-al**

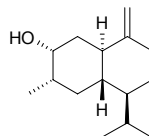
$C_{15}H_{24}O_2$ (236.36). Colorless amorphous solid, [α]_D²⁶ = –12.8° (c = 0.08, CHCl₃). Source: YI NIAN PENG *Erigeron annuus* (aerial parts). Ref: 4338.

**9872 (4R)-3 α -Hydroxycadin-10(15)-ene**

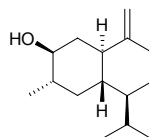
$C_{15}H_{26}O$ (222.37). Amorphous crystals, mp 132–135°C, [α]_D = –13° (c = 0.05, CHCl₃). Pharm: Phytogrowth inhibitor (*Raphanus sativus* seeds, IC₅₀ = 0.25 μ g/mL, control Colchicine, IC₅₀ = 0.40 μ g/mL); insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 15%, 48h mortality = 20%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). Source: BAI JIANG JUN *Beauveria bassiana*. Ref: 3949.

**9873 (4S)-3 α -Hydroxycadin-10(15)-ene**

$C_{15}H_{26}O$ (222.37). Oil. Pharm: Phytogrowth inhibitor (*Raphanus sativus* seeds, IC₅₀ = 0.25 μ g/mL, control Colchicine, IC₅₀ = 0.40 μ g/mL); insecticidal (adult *Cylas formicarius elegantulus*, 0.18mg/insect, 24h, mortality = 85%, 48h mortality = 100%, control Farnesyl methyl ether, 0.18mg/insect, 24h, mortality = 65%, 48h mortality = 95%). Source: BAI JIANG JUN *Beauveria bassiana*. Ref: 3949.

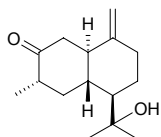
**9874 (4S)-3 β -Hydroxycadin-10(15)-ene**

$C_{15}H_{26}O$ (222.37). Gum. Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 60%, 48h mortality = 100%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). Source: BAI JIANG JUN *Beauveria bassiana*. Ref: 3949.

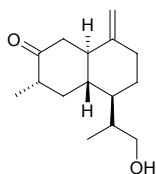


9875 (4S)-12-Hydroxycadin-10(15)-en-3-one

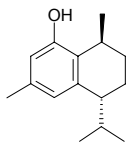
$C_{15}H_{24}O_2$ (236.36). Plates, mp 58–61°C, $[\alpha]_D = -101^\circ$ ($c = 0.082$, $CHCl_3$). **Pharm:** Phytogrowth inhibitor (*Raphanus sativus* seeds, $IC_{50} = 4.90\mu g/mL$, control Colchicine, $IC_{50} = 0.40\mu g/mL$); insecticidal (adult *Cylas formicarius elegantulus*, 0.18mg/insect, 24h, mortality = 45%, 48h mortality = 55%, control Farnesyl methyl ether, 0.18mg/insect, 24h, mortality = 65%, 48h mortality = 95%). **Source:** BAI JIANG JUN *Beauveria bassiana*. **Ref:** 3949.

**9876 (4S)-13-Hydroxycadin-10(15)-en-3-one**

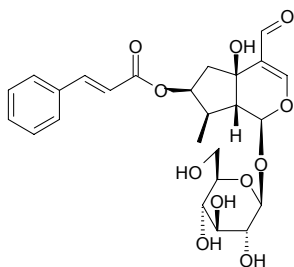
$C_{15}H_{24}O_2$ (236.36). Gum. **Pharm:** Phytogrowth inhibitor (*Raphanus sativus* seeds, $IC_{50} = 1.75\mu g/mL$, control Colchicine, $IC_{50} = 0.40\mu g/mL$); insecticidal (adult *Cylas formicarius elegantulus*, 0.27mg/insect, 24h, mortality = 15%, 48h mortality = 35%, control Farnesyl methyl ether, 0.27mg/insect, 24h, mortality = 85%, 48h mortality = 100%). **Source:** BAI JIANG JUN *Beauveria bassiana*. **Ref:** 3949.

**9877 (+)-8-Hydroxycalamenone**

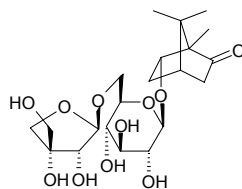
$C_{15}H_{22}O$ (218.34). **Pharm:** Antibacterial; fish toxin; toxin. **Source:** CONG JIAN MU *Dysoxylum alliaceum*, RUI JIAO JIAN MU *Dysoxylum acutangulum*. **Ref:** 658.

**9878 5-Hydroxycampenoside**

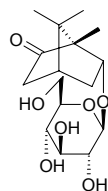
$C_{25}H_{30}O_{11}$ (506.51). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 660.

**9879 (1R,4S,6S)-6-Hydroxycamphor-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

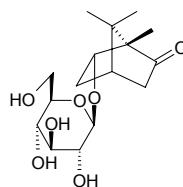
$C_{21}H_{34}O_{11}$ (462.50). Amorphous powder, $[\alpha]_D^{21} = -73^\circ$ ($c = 0.5$, MeOH). **Source:** HU SUI ZI *Coriandrum sativum*. **Ref:** 4302.

**9880 (1S,4R,6S)-6-Hydroxycamphor-β-D-glucopyranoside**

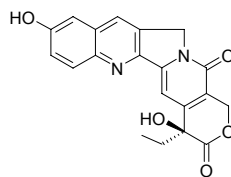
$C_{16}H_{26}O_7$ (330.38). **Source:** SUO SHA MI *Amomum xanthioides* (seed). **Ref:** 4365.

**9881 (1R,4S,6S)-6-Hydroxycamphor-β-D-glucopyranoside**

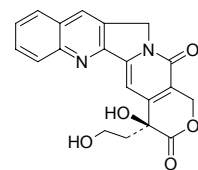
$C_{16}H_{26}O_7$ (330.38). **Source:** SUO SHA MI *Amomum xanthioides* (seed). **Ref:** 4365.

**9882 10-Hydroxycamptothecin**

$C_{20}H_{16}N_2O_5$ (364.36). mp 268–270°C. **Pharm:** Antineoplastic; mutagen. **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 4, 658.

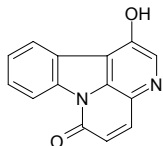
**9883 18-Hydroxycamptothecin**

[116139-46-9] $C_{20}H_{16}N_2O_5$ (364.36). Yellow acicular crystals, mp 256–258°C, $[\alpha]_D^{11} = -21.4^\circ$ ($c = 0.11$, pyridine). **Pharm:** Cytotoxic (P₃₈₈). **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 98.

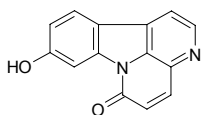


9884 1-Hydroxycanthin-6-one

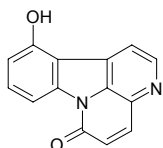
$C_{14}H_8N_2O_2$ (236.23). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000014%dw), *Eurycoma* sp. Ref: 4556, 4728.

**9885 9-Hydroxycanthin-6-one**

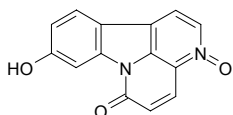
$C_{14}H_8N_2O_2$ (236.23). Pharm: Cytotoxic (*in vitro*, A549, $ED_{50} = 10\mu\text{g/mL}$; MCF7, $ED_{50} = 19.6\mu\text{g/mL}$; HIV, no significant effect)^[4728]; antimalarial (*Plasmodium falciparum* W2, $IC_{50} = 2.3\mu\text{g/mL}$)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.00086%dw), *Eurycoma harmandiana* (root). Ref: 4728, 5137.

**9886 11-Hydroxycanthin-6-one**

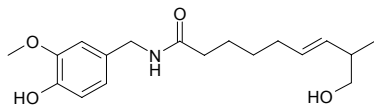
$C_{14}H_8N_2O_2$ (236.23). Source: *Eurycoma* sp. Ref: 4556.

**9887 9-Hydroxycanthin-6-one 3-N-oxide**

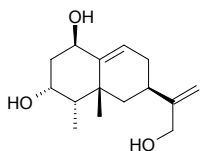
$C_{14}H_8N_2O_3$ (252.23). Pharm: Antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000057%dw), *Eurycoma* sp. Ref: 4556, 4728.

**9888 ω -Hydroxycapsaicin**

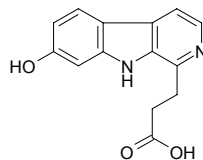
$C_{18}H_{27}NO_4$ (321.42). Light yellow oil, $[\alpha]_D^{20} = +3.5^\circ$ ($c = 0.28$, CHCl_3) Source: HONG HAI JIAO *Capsicum annuum* (fruit: yield = 0.00007%). Ref: 4710.

**9889 13-Hydroxycapsidiol**

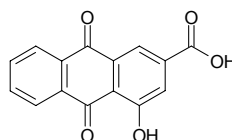
$C_{15}H_{24}O_3$ (252.36). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.0016%dw). Ref: 4779.

**9890 7-Hydroxy-beta-carboline-1-propionic acid**

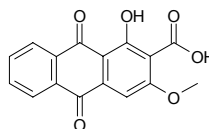
$C_{14}H_{12}N_2O_3$ (256.26). Amorphous powder. Source: *Eurycoma harmandiana* (root), *Eurycoma* sp. Ref: 4556, 5137.

**9891 4-Hydroxy-2-carboxyanthraquinone**

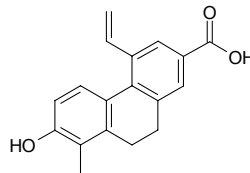
$C_{15}H_8O_5$ (268.32). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**9892 1-Hydroxy-2-carboxy-3-methoxyanthraquinone**

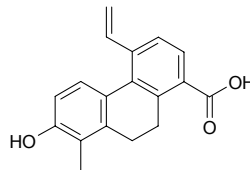
$C_{16}H_{10}O_6$ (298.25). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**9893 2-Hydroxy-7-carboxy-1-methyl-5-ethenyl-9,10-dihydrophenanthrene**

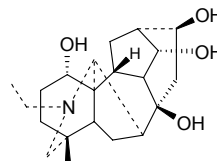
$C_{18}H_{16}O_3$ (280.33). Source: DENG XIN CAO *Juncus effusus*. Ref: 660.

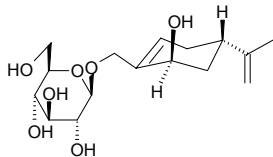
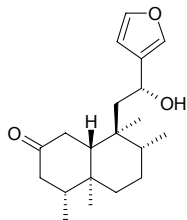
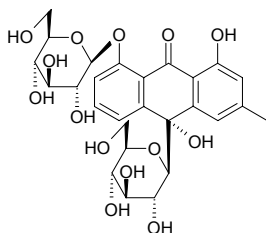
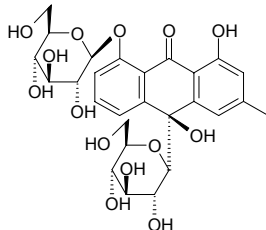
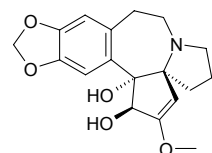
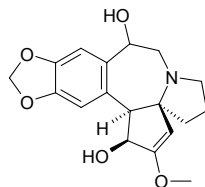
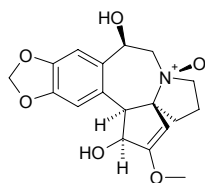
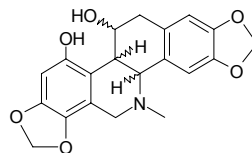
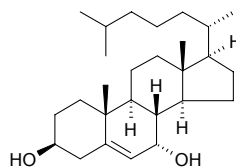
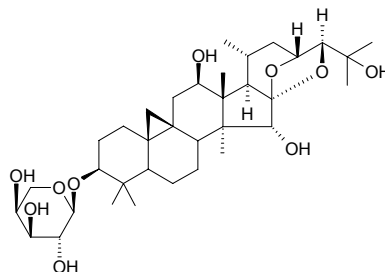
**9894 2-Hydroxy-8-carboxy-1-methyl-5-ethenyl-9,10-dihydrophenanthrene**

$C_{18}H_{16}O_3$ (280.33). Source: DENG XIN CAO *Juncus effusus*. Ref: 660.

**9895 16beta-Hydroxycardiopetaline**

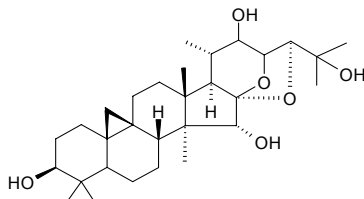
$C_{21}H_{33}NO_4$ (363.50). Amorphous solid, $[\alpha]_D^{20} = -11.3^\circ$ ($c = 0.15$, CHCl_3). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.



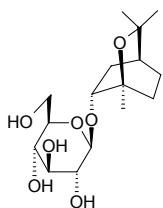
9896 (4R,6S)-7-Hydroxycarveol 7-O-β-D-glucopyranosideC₁₆H₂₆O₇ (330.38). Amorphous powder, [α]_D²⁴ = +12° (c = 0.4, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**9897 (12R)-12-Hydroxy cascarillon**C₂₀H₃₀O₃ (318.46). [α]_D = -47.6° (c = 0.31, CHCl₃). Source: GE LUN BI YABA DOU *Croton schiedeana*. Ref: 2049.**9898 10-Hydroxycascaroside C**C₂₇H₃₂O₁₄ (580.55). Pale yellow amorphous, [α]_D²¹ = -41.2° (c = 0.051,MeOH). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.**9899 10-Hydroxycascaroside D**C₂₇H₃₂O₁₄ (580.55). Pale yellow amorphous, [α]_D²¹ = -81.9° (c = 0.085,MeOH). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.**9900 4-Hydroxycephalotaxine**[84567-08-8] C₁₈H₂₁NO₅ (331.37). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 660.**9901 11-Hydroxycephalotaxine**[49686-55-7] C₁₈H₂₁NO₅ (331.37). Source: SAN JIAN SHAN *Cephalotaxus**fortunei*, SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00012%)^[4675], ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. Ref: 2, 660, 1521, 4675.**9902 11-β-Hydroxycephalotaxine β-N-oxide**C₁₈H₂₁NO₆ (347.37). Amorphous solid, [α]_D²¹ = -94° (c = 0.5, CHCl₃). Pharm:Cytotoxic (*in vitro*, nasopharynx KB cells, IC₅₀ = 31 μg/mL, weak activity).Source: SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00036%).Ref: 4675.**9903 10-Hydroxychelidonine**C₂₀H₁₉NO₆ (369.38). mp 203~204°C, [α]_D²⁰ = +107° (c = 0.28, CHCl₃).Source: BAI QU CAI *Chelidonium majus*. Ref: 1521.**9904 7α-Hydroxycholesterol**C₂₇H₄₆O₂ (402.67). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.**9905 12β-Hydroxycimigenol 3-O-α-L-arabinopyranoside**C₃₅H₅₈O₁₀ (363.83). Pharm: Cytotoxic (HSC-2 cells, IC₅₀ = 74 μmol/L, controlEtoposide, IC₅₀ = 24 μmol/L; HGF cells, IC₅₀ = 352 μmol/L). Source: ZONGZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). Ref: 4158.

9906 (2R)-22-Hydroxycimigenol

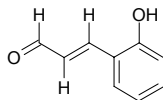
C₃₀H₄₈O₆ (504.71). White powder, mp 270~273°C. Source: SAN MIAN DAO *Cimicifuga acerina*. Ref: 873.

**9907 (1R,2R,4S)-2-Hydroxy-1,8-cineole β-D-glucopyranoside**

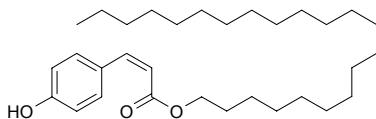
C₁₆H₂₈O₇ (332.40). Source: GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310.

**9908 2'-Hydroxycinnamaldehyde**

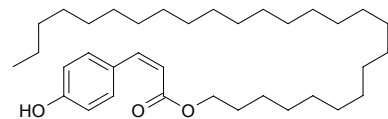
C₉H₈O₂ (148.16). Bright crystals (acetone-hexane), mp 131~132°C. Pharm: Farnesyl-protein transferase inhibitor (ox brain, IC₅₀ = 22μg/mL). Source: GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*]. Ref: 1163.

**9909 4'-Hydroxy-cis-cinnamic acid docosyl ester**

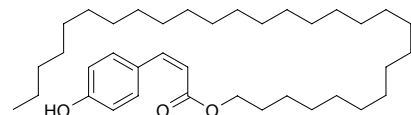
C₃₁H₅₂O₃ (472.76). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**9910 4'-Hydroxy-cis-cinnamic acid hexacosyl ester**

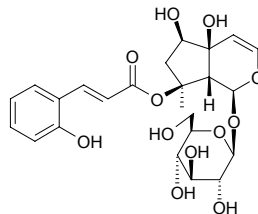
C₃₅H₆₀O₃ (528.87). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**9911 4'-Hydroxy-cis-cinnamic acid octacosyl ester**

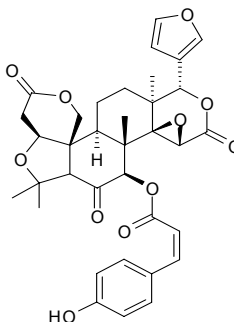
C₃₇H₆₄O₃ (556.92). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**9912 8-O-(2-Hydroxycinnamoyl)harpagide**

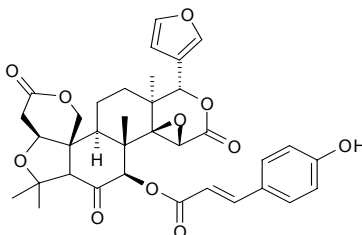
C₂₄H₃₀O₁₂ (510.50). Gum, [α]_D²⁰ = -35.73° (c = 0.187, MeOH). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 1855.

**9913 cis-p-Hydroxycinnamoylrutaevin**

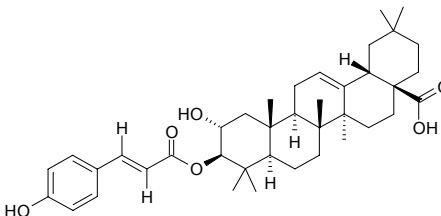
Rutaevin (*Z*)-*p*-hydroxycinnamate [195392-12-2] C₃₅H₃₆O₁₁ (632.67). Source: WEI KONG CAO *Microula sikkimensis*. Ref: 720.

**9914 trans-p-Hydroxycinnamoylrutaevin**

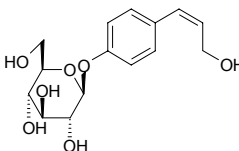
Rutaevin (*E*)-*p*-hydroxycinnamate [195392-13-3] C₃₅H₃₆O₁₁ (632.67). Source: WEI KONG CAO *Microula sikkimensis*. Ref: 720.

**9915 3-O-p-Hydroxy-trans-cinnamoylmaslinic acid**

C₃₉H₅₄O₆ (618.86). Source: LI MU *Lyonia ovalifolia*. Ref: 6.

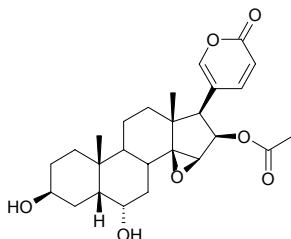
**9916 (Z)-4-Hydroxycinnamyl alcohol 4-O-β-D-glucopyranoside**

C₁₅H₂₀O₇ (312.32). Amorphous powder, [α]_D²² = -63° (c = 0.2, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

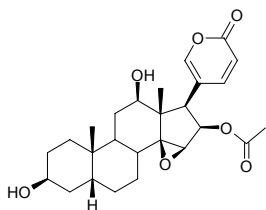


9917 6 α -Hydroxycinobufagin

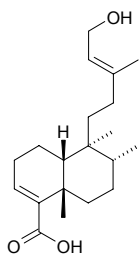
C₂₆H₃₄O₇ (458.56). Colorless solid, [α]_D²¹ = -3.2° (*c* = 0.1, CH₃OH). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.87 μ g/mL; HL-60, IC₅₀ = 0.038 μ g/mL; MH-60, IC₅₀ > 25 μ g/mL; BXPC3, IC₅₀ = 0.46 μ g/mL; MCF7, IC₅₀ = 0.36 μ g/mL; SF268, IC₅₀ = 0.32 μ g/mL; NCI-H460, IC₅₀ = 0.74 μ g/mL; KM20L2, IC₅₀ = 0.28 μ g/mL; DU145, IC₅₀ = 0.21 μ g/mL). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 3082.

**9918 12 β -Hydroxycinobufagin**

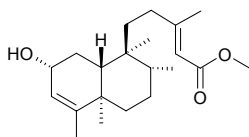
C₂₆H₃₄O₇ (458.56). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.79 μ g/mL; HL-60, IC₅₀ < 0.01 μ g/mL; MH-60, IC₅₀ > 25 μ g/mL). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 3082.

**9919 (+)-15-Hydroxy-cis-cleroda-3,13-dien-18-oic acid**

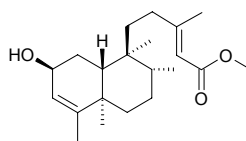
C₂₀H₃₂O₃ (320.48). **Source:** GE LUN BI YA BA DOU *Croton schiedeanus* (aerial parts). **Ref:** 4447.

**9920 2 α -Hydroxy-3,13-clerodadien-15-oic acid methyl ester**

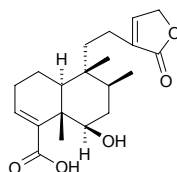
C₂₇H₃₄O₃ (334.50). [α]_D²⁴ = -78.3° (*c* = 0.41, CHCl₃). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.

**9921 2 β -Hydroxy-3,13-clerodadien-15-oic acid methyl ester**

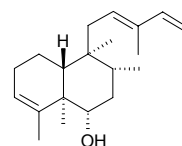
C₂₇H₃₄O₃ (334.50). [α]_D²⁴ = -5.9° (*c* = 0.8, CHCl₃). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 2366.

**9922 (-)-6 β -Hydroxy-5 β ,8 β ,9 β ,10 α -cleroda-3,13-dien-16,15-olid-18-oic acid**

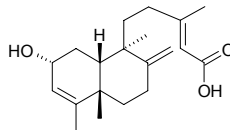
C₂₀H₂₈O₅ (348.44). Colorless gummy solid, [α]_D²⁴ = -75° (*c* = 0.2, MeOH). **Pharm:** α -Glucosidase inhibitor (IC₅₀ = (577.7 \pm 19.0) μ mol/L, control Deoxynojirimycin, IC₅₀ = (425.6 \pm 8.1) μ mol/L). **Source:** JIA LIAN QIAO YE *Duranta repens*. **Ref:** 4050.

**9923 6 α -Hydroxy-3,12E,14-clerodatriene**

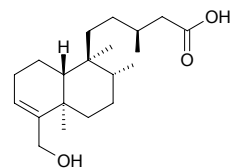
C₂₀H₃₂O (288.48). [α]_D²⁰ = -40.9° (*c* = 0.13, CHCl₃). **Source:** *Heteroscyphus billardieri*, *Plagiochila deltoidea*. **Ref:** 4284.

**9924 2- α -Hydroxy-cis-cleroda-3,13(Z),8(17)-trien-15-oic acid**

C₂₀H₃₀O₃ (318.46). Colorless oil, [α]_D²⁵ = -35.0° (*c* = 0.5, CHCl₃). **Pharm:** Antibacterial (*Bacillus cereus*, MIC = 0.625 μ g, control Tetracyclin, MIC = 0.25 μ g; *Bacillus coagulans*, MIC = 0.625 μ g, Tetracyclin, MIC = 0.25 μ g; *Bacillus subtilis*, MIC = 1.25 μ g, Tetracyclin, MIC = 0.25 μ g; *Micrococcus luteus*, MIC = 0.625 μ g, Tetracyclin, MIC = 0.25 μ g; *Staphylococcus aureus*, MIC = 0.625 μ g, Tetracyclin, MIC = 5.0 μ g)^[5419]. **Source:** *Haplopappus foliosus*. **Ref:** 5419.

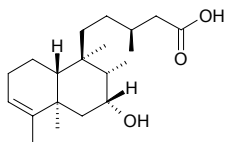
**9925 ent-18-Hydroxy-3-cleroden-15-oic acid**

C₂₀H₃₄O₃ (322.49). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

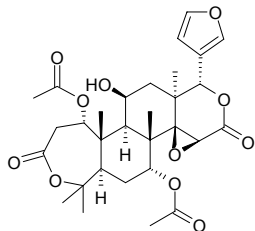


9926 (13S)-ent-7 β -Hydroxy-3-cleroden-15-oic acid

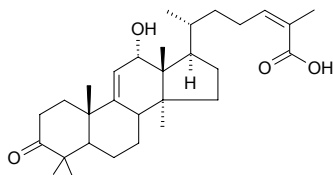
$C_{20}H_{34}O_3$ (322.49). Colorless oil, $[\alpha]_D^{20} = -32.3^\circ$ ($c = 0.4$, $CHCl_3$). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (14.6 \pm 1.4) \mu g/mL$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu g/mL$). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**9927 11 β -Hydroxycneurin G**

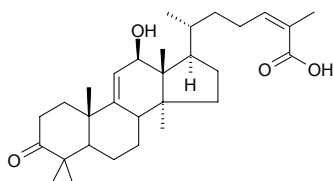
$C_{30}H_{38}O_{11}$ (574.63). Colorless prisms ($CHCl_3$ -MeOH), mp 279–281°C, $[\alpha]_D^{23} = -41.1^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** ZHONG GUO YANG CHUN *Cedrela sinensis* (leaf). **Ref:** 3883.

**9928 12 α -Hydroxycoccinic acid**

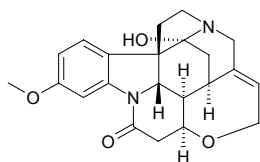
$C_{30}H_{46}O_4$ (470.70). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436, 2523.

**9929 12 β -Hydroxycoccinic acid**

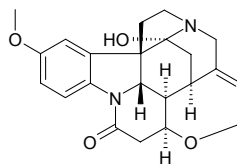
$C_{30}H_{46}O_4$ (470.70). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. **Ref:** 2436, 2523.

**9930 16-Hydroxy- α -colubrine**

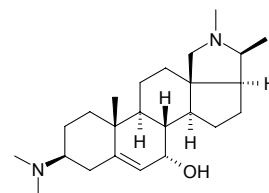
[34479-58-8] $C_{22}H_{24}N_2O_4$ (380.45). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 6.

**9931 16-Hydroxy- β -colubrine**

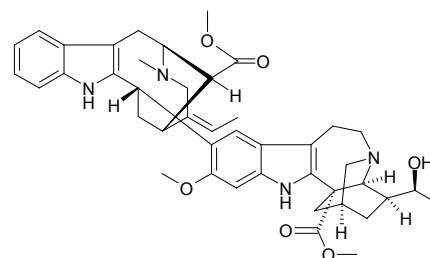
[29079-34-3] $C_{22}H_{24}N_2O_4$ (380.45). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 6.

**9932 7 α -Hydroxyconessine**

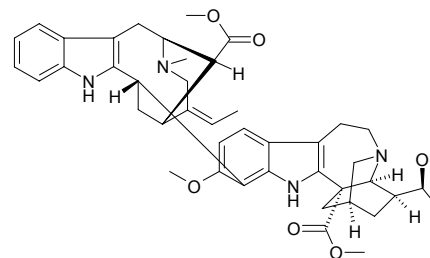
$C_{24}H_{40}N_2O$ (372.60). mp 176–178°C, $[\alpha]_D^{20} = -61^\circ$ ($c = 0.95$, $CHCl_3$). **Source:** ZHI XIE MU PI *Holarhena antidysenterica*. **Ref:** 6, 1521.

**9933 19'(S)-Hydroxyconoduramine**

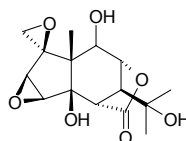
$C_{43}H_{52}N_4O_6$ (720.92). Light yellowish oil, $[\alpha]_D = -43^\circ$ ($c = 0.63$, $CHCl_3$). **Source:** SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. **Ref:** 3403.

**9934 19'(S)-Hydroxyconodurine**

$C_{43}H_{52}N_4O_6$ (720.92). Light yellowish oil, $[\alpha]_D = -69^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. **Ref:** 3403.

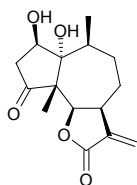
**9935 Hydroxycoriatin**

$C_{15}H_{20}O_7$ (312.32). White acicular crystals, mp 260°C (dec). **Source:** MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*]. **Ref:** 413.

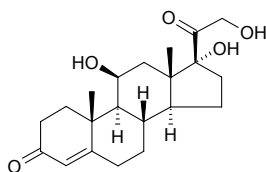


9936 2 β -Hydroxycoronopilin

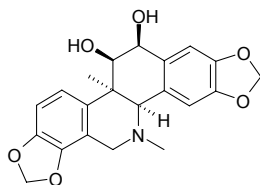
$C_{15}H_{20}O_5$ (280.32). Colorless needles (EtOAc), mp 185–187°C. Source: YIN JIAO JU *Parthenium hysterophorus* (aerial parts). Ref: 5106.

**9937 17-Hydroxycorticosterone**

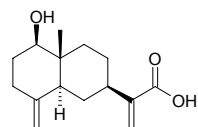
17-Oxycorticosterone $C_{21}H_{30}O_5$ (362.47). mp 220°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*, ZHI XIE MU *PI Holarrhena antidysenterica*. Ref: 6.

**9938 12-Hydroxycorynoline**

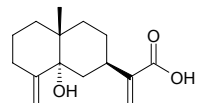
$C_{21}H_{21}NO_6$ (383.40). Source: KU DI DING *Corydalis bungeana*, ZI HUA YU DENG CAO *Corydalis incisa* Ref: 660.

**9939 1 β -Hydroxycostic acid**

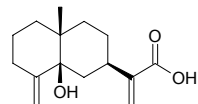
$C_{15}H_{22}O_3$ (250.34). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00076%dw). Ref: 4709.

**9940 5 α -Hydroxycostic acid**

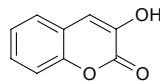
$C_{15}H_{22}O_3$ (250.34). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00055%dw). Ref: 4709.

**9941 5 β -Hydroxycostic acid**

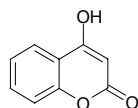
$C_{15}H_{22}O_3$ (250.34). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00038%dw). Ref: 4709.

**9942 3-Hydroxycoumarin**

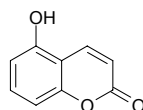
[1939-19-5] $C_9H_6O_3$ (162.15). Source: SANG YE *Morus alba*. Ref: 6.

**9943 4-Hydroxycoumarin**

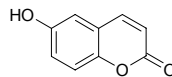
[1076-38-6] $C_9H_6O_3$ (162.15). Source: SANG YE *Morus alba*. Ref: 6.

**9944 5-Hydroxycoumarin**

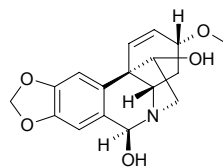
[6093-67-0] $C_9H_6O_3$ (162.15). Pharm: Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. Source: SANG YE *Morus alba*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. Ref: 6, 3069.

**9945 6-Hydroxycoumarin**

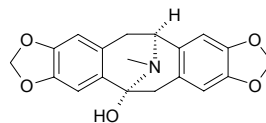
$C_9H_6O_3$ (162.15). Source: SANG YE *Morus alba*. Ref: 6.

**9946 6-Hydroxycrinamine**

$C_{17}H_{19}NO_5$ (317.34). Pharm: AChE inhibitor ($IC_{50} = (490 \pm 7) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2) \mu\text{mol/L}$)^[4952]. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. Ref: 4952.

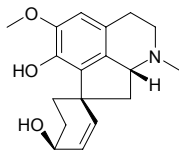
**9947 (-)-12-Hydroxycrychine**

$C_{19}H_{17}NO_5$ (339.35). Colorless needles (MeOH), mp 173–174°C, $[\alpha]_D = -143.0^\circ$ ($c = 0.2764$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

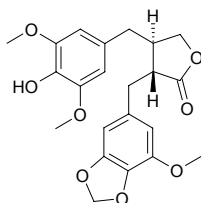


9948 1-Hydroxycyprochine

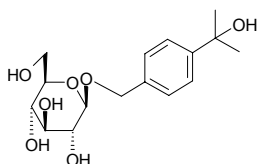
$C_{18}H_{23}NO_3$ (301.39). Colorless needles (acetone), mp 117–119°C, $[\alpha]_D = +65.32^\circ$ ($c = 0.322$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**9949 (8*R*,8'*R*)-4-Hydroxycubebinone**

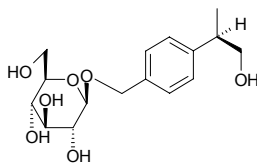
$C_{22}H_{24}O_8$ (416.43). Pale yellow oil, $[\alpha]_D^{25} = -30.0^\circ$ ($c = 0.08$, $CHCl_3$). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 7.4\mu\text{mol/L}$; CYP2D6, $IC_{50} > 100\mu\text{mol/L}$; control Ketoconazole, CYP3A4, $IC_{50} = 0.72\mu\text{mol/L}$; control Quinidine, CYP2D6, $IC_{50} = 0.082\mu\text{mol/L}$)^[4797]. Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00011%dw). Ref: 4797.

**9950 8-Hydroxycuminyl β-D-glucopyranoside**

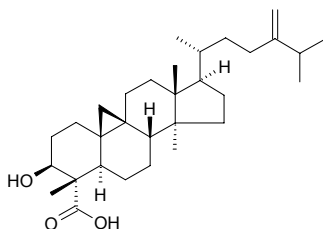
$C_{16}H_{24}O_7$ (328.37). Amorphous powder, $[\alpha]_D^{24} = -40^\circ$ ($c = 0.5$, MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.

**9951 (8*R*)-9-Hydroxycuminyl β-D-glucopyranoside**

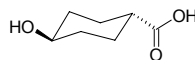
$C_{16}H_{24}O_7$ (328.37). Amorphous powder, $[\alpha]_D^{24} = -44^\circ$ ($c = 1.5$, MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.

**9952 3β-Hydroxy-5α-cycloart-24(31)-en-28-oic acid**

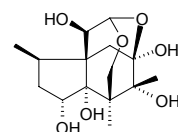
$C_{31}H_{50}O_3$ (470.74). Pharm: Anti-HIV-1 (syncytium assay: $IC_{50} = 120.1\mu\text{g/mL}$, $EC_{50} = 58.1\mu\text{g/mL}$; HIV-1 RT assay: $200\mu\text{g/mL}$, $\text{InRt} = 93.6\%$, $IC_{50} = 43.5\mu\text{g/mL}$, Fagaronine chloride $IC_{50} = 10.9\mu\text{g/mL}$, Nevirapine $IC_{50} = 1.8\mu\text{g/mL}$). Source: TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). Ref: 4963.

**9953 trans-4-Hydroxycyclohexane-1-carboxylic acid**

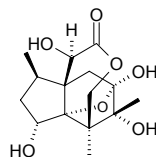
$C_7H_{12}O_3$ (144.17). Source: DU ZHONG YE *Eucommia ulmoides*. Ref: 660.

**9954 3α-Hydroxycycloparvifloralone**

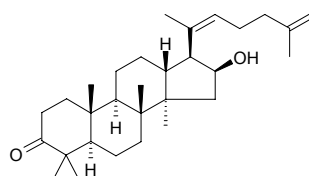
$C_{15}H_{24}O_7$ (316.35). Colorless amorphous powder, $[\alpha]_D^{19} = +11^\circ$ ($c = 1.35$, CH_3OH). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1–10 $\mu\text{mol/L}$). Source: *Illicium merrillianum* (pericarp: yield = 0.034%dw). Ref: 3046.

**9955 10β-Hydroxycyclopseudoanisatin**

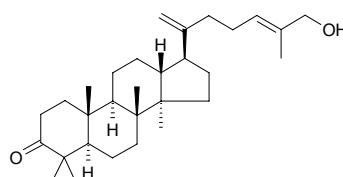
$C_{15}H_{22}O_7$ (314.34). Source: *Illicium merrillianum* (pericarp). Ref: 4257.

**9956 16β-Hydroxy-dammara-20(22),25-dien-3-one**

$C_{30}H_{48}O_2$ (440.72). Colorless acicular crystals (MeOH), mp 182°C, $[\alpha]_D^{21.5} = +58^\circ$ ($c = 1.0$, $CHCl_3$). Source: XIANG GANG JIAN MU *Dysoxylum hongkongense*. Ref: 422.

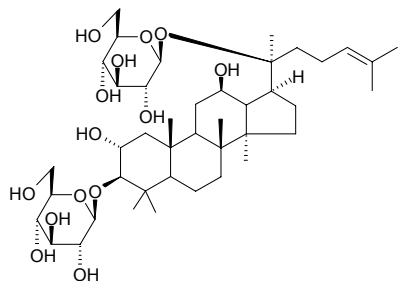
**9957 26-Hydroxy-dammara-20,24-dien-3-one**

$C_{30}H_{48}O_2$ (440.72). Colorless acicular crystals (MeOH), mp 69°C, $[\alpha]_D^{21.5} = +58^\circ$ ($c = 1.0$, $CHCl_3$). Source: XIANG GANG JIAN MU *Dysoxylum hongkongense*. Ref: 422.

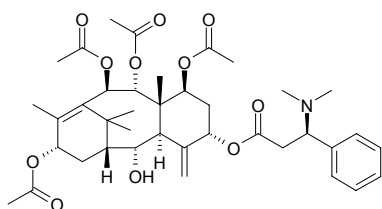


9958 2 α ,3 β ,12 β ,20(S)-3-Hydroxydammar-24-en-20-O- β -D-glucopyranoside

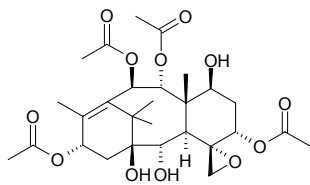
C₄₂H₇₂O₁₄ (801.03). White powder, mp 207–209°C, [α]_D²⁰ = +3.8° (*c* = 0.1, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2516.

**9959 2 α -Hydroxy-2' β -Deacetylaustrospicatine**

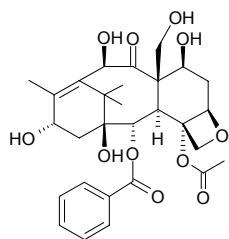
C₃₉H₅₃NO₁₁ (711.86). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**9960 1 β -Hydroxy-2 α ,7 β -deacetylbaccatin I**

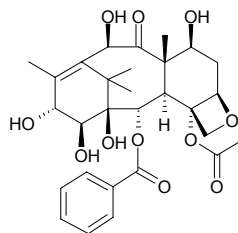
C₂₈H₄₀O₁₂ (568.62). Amorphous solid, [α]_D^{21.7} = +63.83° (*c* = 0.047, acetone). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 2490.

**9961 19-Hydroxy-10-deacetylbaccatin III**

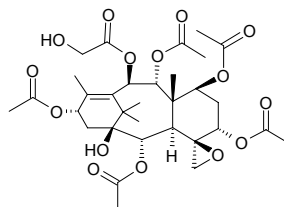
C₂₉H₃₆O₁₁ (560.60). Pharm: Cytotoxic (*in vitro*, 30 μg/mL: A498, InRt = 16.6%; NCI-H226, InRt = 32.0%; A549, InRt = 0%; PC3, InRt = 2.3%; control Taxol, 30 μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

**9962 14 β -Hydroxy-10-deacetylbaccatin III**

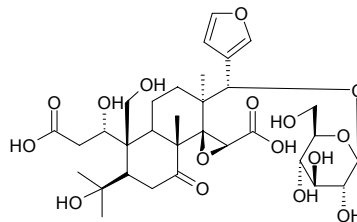
C₂₉H₃₆O₁₁ (560.60). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**9963 1 β -Hydroxy-10-deacetyl-10-glycolylbaccatin I**

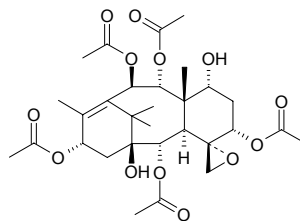
C₃₂H₄₄O₁₅ (668.70). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**9964 19-Hydroxydeacetylnomilinic acid-17- β -D-glucopyranoside**

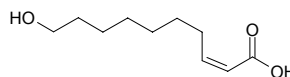
C₃₂H₄₆O₁₆ (686.71). Source: ZHI SHI *Citrus aurantium*. Ref: 660.

**9965 1 β -Hydroxy-7 β -deacetyoxy-7 α -hydroxybaccatin I**

C₃₀H₄₂O₁₃ (610.66). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

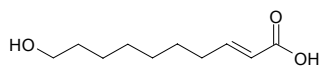
**9966 ω -cis-Hydroxy- Δ^2 -decenoic acid**

C₁₀H₁₈O₃ (186.25). mp (*trans*) 64–65°C. Source: FENG RU *Apis cerana*. Ref: 6.

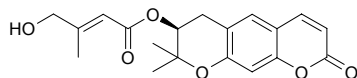


9967 *ω*-trans-Hydroxy-Δ²-decanoic acid

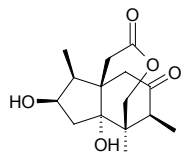
[765-01-5] C₁₀H₁₈O₃ (186.25). Source: FENG JIAO *Apis mellifera ligustica* (bee glue: content = 0.22%^[5508]), FENG RU *Apis cerana*. Ref: 6, 5508.

**9968 4''-Hydroxydecursin**

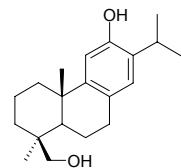
C₁₉H₂₀O₆ (344.37). Colorless needles (MeOH), mp 101~103°C, [α]_D = +59° (c = 0.5, CHCl₃). Pharm: Neuroprotective (primary cultures of rat cortical cells, control, cell viability = 100%, injured by glutamate, cell viability = 0%, 0.1 μmol/L, cell viability = (38.4±4.0)%, p<0.05, 1 μmol/L, cell viability = (34.1±3.5)%, p<0.05, 10 μmol/L, cell viability = (35.1±4.5)%, p<0.05). Source: CHAO XIAN DANG GUI *Angelica gigas* (root: yield = 0.001%dw). Ref: 4796.

**9969 2β-Hydroxy-3,6-dedioxypseudoanisatin**

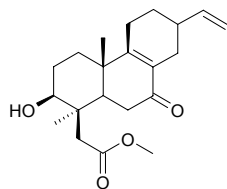
C₁₅H₂₂O₅ (282.34). [α]_D²² = -22.0° (c = 1.08, MeOH). Source: *Illicium merrillianum* (pericarp). Ref: 4257.

**9970 12-Hydroxydehydroabietinol**

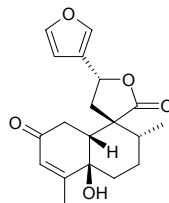
C₂₀H₃₀O₂ (302.46). Source: YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.0012%dw). Ref: 4707.

**9971 3β-Hydroxy-cis-dehydrocrotonin**

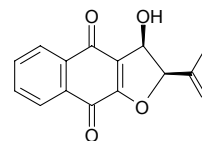
C₂₁H₃₀O₄ (346.47). Source: *Croton joufra*. Ref: 4552.

**9972 5β-Hydroxy-cis-dehydrocrotonin**

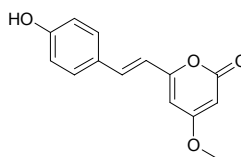
C₁₉H₂₂O₅ (330.38). Colorless needles, mp 182~183°C (MeOH-ether), [α]_D = +14.6° (c = 0.8, CHCl₃). Source: GE LUN BI YA BA DOU *Croton schiedeanus*. Ref: 2049.

**9973 3-Hydroxydehydro-iso-α-lapachone**

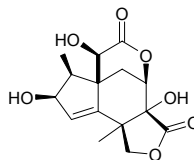
C₁₅H₁₂O₄ (256.26). Source: CAI DOU SHU *Radermachera sinica*. Ref: 660.

**9974 4'-Hydroxy-5,6-dehydrokawain**

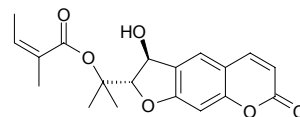
C₁₄H₁₂O₄ (244.25). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 20.7 μmol/L; HT1080, ED₅₀ = 20.1 μmol/L)^[3042]. Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00185%). Ref: 3042.

**9975 (2S)-Hydroxy-3,4-dehydrocomajucin**

C₁₅H₁₈O₇ (310.31). Pharm: Neurotrophic (primary cultures of fetal rat cortical neuron, 0.1-10 μmol/L, significantly promotes neurite outgrowth)^[4621]. Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.0049%dw). Ref: 4621.

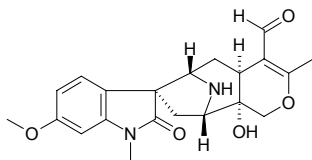
**9976 (3'S)-Hydroxydeltoin**

C₁₉H₂₀O₆ (344.37). White powder, [α]_{589nm} = -45°. Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 3508.

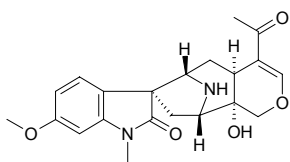


9977 16-Hydroxy-N(4)-demethylalstophyllal oxindole

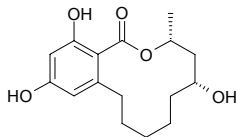
$C_{21}H_{24}N_2O_5$ (384.44). White amorphous powder, $[\alpha]_D^{25} = +203^\circ$ ($c = 0.11$, $CHCl_3$). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0016%). Ref: 3020.

**9978 16-Hydroxy-N(4)-demethylalstophylline oxindole**

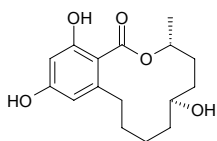
$C_{21}H_{24}N_2O_5$ (384.44). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0019%). Ref: 3020.

**9979 (3R),(5R)-5-Hydroxy-de-O-methylasiodiplodin**

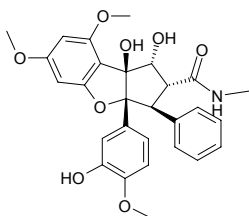
$C_{16}H_{22}O_5$ (294.35). Colorless powder, mp 158–160°C, $[\alpha]_D^{25} = +19.6^\circ$ ($c = 0.5$, MeOH). Pharm: Potato micro-tuber inducer (100 μmol/L, control Jasmonic acid, 1 μmol/L, Theobroxide, 10 μmol/L). Source: *Lasiodiplodia theobromae*. Ref: 3966.

**9980 (3R),(6R)-6-Hydroxy-de-O-methylasiodiplodin**

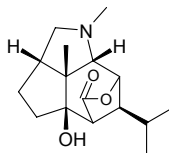
$C_{16}H_{22}O_5$ (294.35). Colorless powder, mp 200–201°C, $[\alpha]_D^{25} = -5.36^\circ$ ($c = 0.4$, MeOH). Pharm: Potato micro-tuber inducer (100 μmol/L, control Jasmonic acid, 1 μmol/L, Theobroxide, 10 μmol/L). Source: *Lasiodiplodia theobromae*. Ref: 3966.

**9981 3'-Hydroxy-N-demethylrocaglamide**

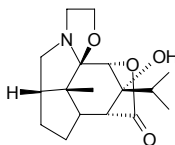
[222854-53-7] $C_{28}H_{29}NO_8$ (507.55). $[\alpha]_D^{20} = -59.5^\circ$ ($c = 0.25$, $CHCl_3$). Source: MI ZI LAN *Aglaia odorata*. Ref: 2289.

**9982 6-Hydroxydendrobine**

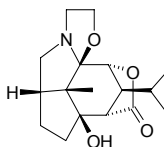
Dendramine $C_{16}H_{25}NO_3$ (279.38). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 660.

**9983 4-Hydroxydendroxine**

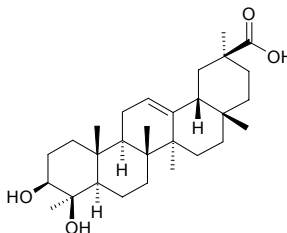
$C_{17}H_{25}NO_4$ (307.39). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 660.

**9984 6-Hydroxydendroxine**

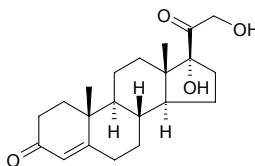
$C_{17}H_{25}NO_4$ (307.39). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 6.

**9985 24-Hydroxy-11-deoxoglycyrrhetic acid**

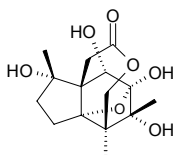
$C_{29}H_{46}O_4$ (458.69). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2, 660.

**9986 17-Hydroxy-11-deoxy-corticosterone**

$C_{21}H_{30}O_4$ (346.47). mp 207–208°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

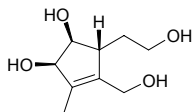
**9987 8α-Hydroxy-10-deoxycyclomerrillianolide**

$C_{15}H_{22}O_7$ (314.34). $[\alpha]_D^{20} = -49.0^\circ$ ($c = 1.55$, MeOH). Source: *Illicium merrillianum* (pericarp). Ref: 4257.

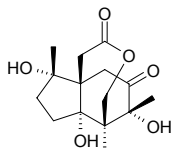


9988 7-Hydroxy-10-deoxyeucommiol

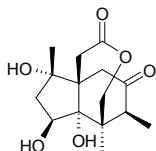
$C_9H_{16}O_4$ (188.23). Yellow oil, $[\alpha]_D^{17} = -53.44^\circ$ ($c = 1.06$, MeOH). Source: DIAO DENG SHU *Kigelia pinnata*. Ref: 3418.

**9989 1 α -Hydroxy-3-deoxypseudoanisatin**

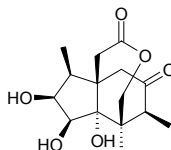
1 α -Hydroxy-3-deoxypseudoanisatin $C_{15}H_{22}O_6$ (298.34). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00055%dw), *Illicium merrillianum* (pericarp: yield = 0.00025%dw). Ref: 3046, 4697.

**9990 1 α -Hydroxy-6-deoxypseudoanisatin**

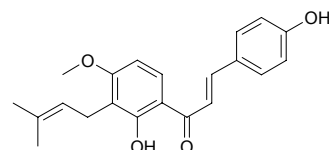
$C_{15}H_{22}O_6$ (298.34). $[\alpha]_D^{21} = 7.6^\circ$ ($c = 1.50$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00095%dw). Ref: 4697.

**9991 (2S)-Hydroxy-6-deoxypseudoanisatin**

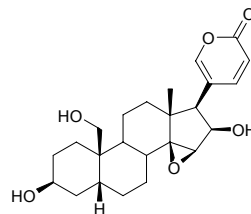
$C_{15}H_{22}O_6$ (298.34). mp 223~224°C, $[\alpha]_D^{20} = -23.3^\circ$ ($c = 0.38$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.0013%dw). Ref: 4697.

**9992 4-Hydroxyderricin**

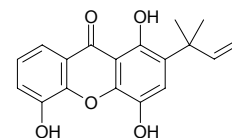
$C_{21}H_{22}O_4$ (338.41). Pharm: Antineoplastic and antimetastatic (25mg/kg or 50mg/kg bid, inhibits tumor growth on 8 to 14days, prolongs survival time and increased the survival rate compared to those in mouse after the removal of tumors and inhibits metastasis to the lung in tumor-removed mouse and the increase of lung weight; 50mg/kg bid orl, reduces tumor weight at 15days was of 4-hydroxyderricin). Source: BIN HAI DANG GUI *Angelica keiskei* (root). Ref: 4945.

**9993 19-Hydroxydesacetylcinobufagin**

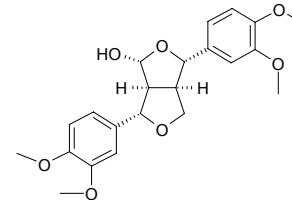
Desacetylcinobufaginol $C_{24}H_{32}O_6$ (416.52). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 3.9\mu\text{g/mL}$; HL-60, $IC_{50} = 0.49\mu\text{g/mL}$; MH-60, $IC_{50} > 25\mu\text{g/mL}$). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.

**9994 12b-Hydroxy-des-D-ring-garcigerin A**

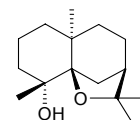
$C_{18}H_{16}O_5$ (312.33). Pharm: Neurite outgrowth activity (NGF-mediated, PC12D cells, $EC = 10\mu\text{mol/L}$)^[3473]. Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood), *Garcinia vilsersiana* (bark). Ref: 3473, 3902.

**9995 (+)-4-Hydroxy-2,6-di(3,4-dimethoxy)phenyl-3,7-dioxabicyclo[3.3.0]octane**

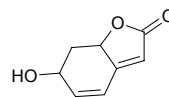
$C_{22}H_{26}O_7$ (402.45). White powder (MeOH), mp 171~173°C, $[\alpha]_D^{22} = +29.5^\circ$ ($c = 0.45$, CHCl_3). Source: JU DA LAN CI TOU *Echinops giganteus* (root). Ref: 3828.

**9996 4-Hydroxydihydroagarofuran**

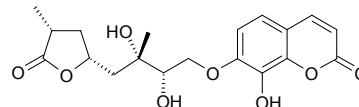
$C_{15}H_{26}O_2$ (238.37). mp 130~131°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 6, 13.

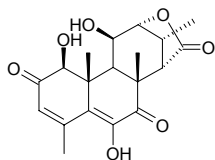
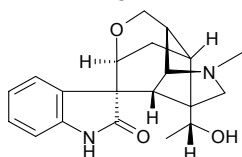
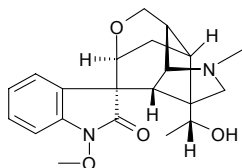
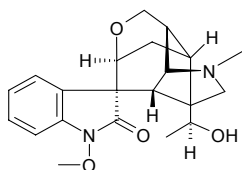
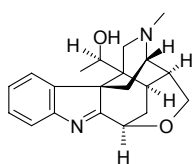
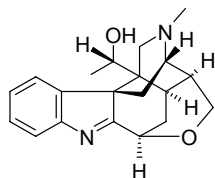
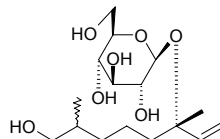
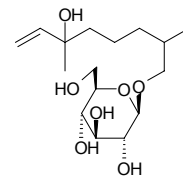
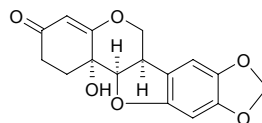
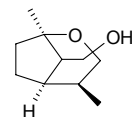
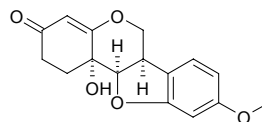
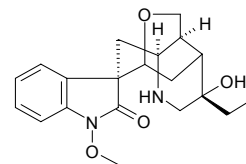
**9997 6-Hydroxy-7,7 α -dihydro-2(6H)-benzofuranone**

$C_8H_8O_3$ (152.15). Colorless needles (*n*-hexane), mp 112~114°C, $[\alpha]_D^{25} = +69.4^\circ$ ($c = 0.036$, MeOH). Source: MA YE QIAN LI GUANG *Senecio cannabifolius*. Ref: 4809.

**9998 8-Hydroxy-3'',4''-dihydrocapnolactone-2',3'-diol**

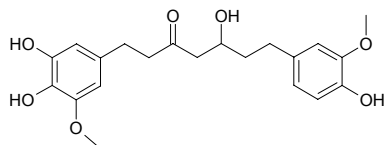
$C_{19}H_{22}O_8$ (378.38). Colorless semisolid. Source: JI XIAO XIAO YUN XIANG MU *Micromelum minutum* (leaf). Ref: 3467.



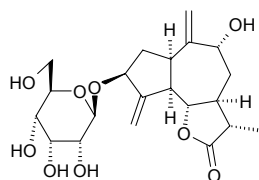
9999 6-Hydroxy-5,6-dihydroeurycomalactoneC₁₉H₂₂O₇ (362.38). Source: *Eurycoma* sp. Ref: 4556.**10000 19-(R)-Hydroxydihydrogelsemine**C₂₀H₂₄N₂O₃ (340.43). mp 230–232°C, [α]_D = –20°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.**10001 19-(R)-Hydroxydihydrogelsevirine**C₂₁H₂₆N₂O₄ (370.45). mp 210–212°C, [α]_D = –34°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.**10002 19-(S)-Hydroxydihydrogelsevirine**C₂₁H₂₆N₂O₄ (370.45). Amorphous, [α]_D = –68°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.**10003 19-(R)-Hydroxydihydrokoumine**C₂₀H₂₄N₂O₂ (324.43). mp 198–200°C, [α]_D = –232.7°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.**10004 19-(S)-Hydroxydihydrokoumine**C₂₀H₂₄N₂O₂ (324.43). mp 270–272°C, [α]_D = –184.6°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.**10005 (3S)-8-Hydroxy-6,7-dihydrolinalol 3-O-β-D-glucopyranoside**C₁₆H₃₀O₇ (334.41). Amorphous powder, [α]_D²¹ = –8° (c = 0.5, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.**10006 8-Hydroxy-6,7-dihydrolinalool 8-O-glucopyranoside**C₁₆H₃₀O₇ (334.41). Gum. Source: XIANG SI CAO *Comyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*] (aerial parts). Ref: 5206.**10007 11b-Hydroxy-11b,1-dihydromaackiain**C₁₆H₁₄O₆ (302.29). Pharm: Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μmol/L, InRt = (8.4±0.5)%, inactive, control Silybin, 100 μmol/L, InRt = (77.0±5.5)%). Source: GUANG BU DING GONG TENG *Erycibe expansa*. Ref: 4095.**10008 7-Hydroxydihydromatatabiether**C₁₀H₁₈O₂ (170.25). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.**10009 11b-Hydroxy-11b,1-dihydromedicarpin**C₁₆H₁₆O₅ (288.30). Pharm: Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μmol/L, InRt = (6.5±0.8)%, inactive, control Silybin, 100 μmol/L, InRt = (77.0±5.5)%). Source: GUANG BU DING GONG TENG *Erycibe expansa*. Ref: 4095.**10010 20-Hydroxydihydromedicarpin**[135626-62-9] C₂₀H₂₆N₂O₄ (358.44). mp 173–174°C, [α]_D = –165°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

10011 5-Hydroxy-1-(3,4-dihydroxy-5-methoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)heptan-3-one

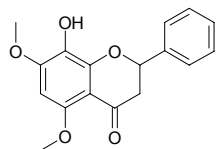
$C_{21}H_{26}O_7$ (390.44). Colorless oil. Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.

**10012 9 α -Hydroxy-11 β ,13-dihydrozaluzanin C 3-O- β -allopyranoside**

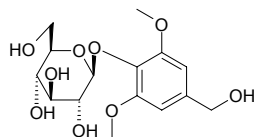
$C_{21}H_{30}O_9$ (426.47). Solid. Source: KAN CHA JIA MAO LIAN CAI *Picris kamschatica*. Ref: 1932.

**10013 2'-Hydroxy-3',5'-diimethoxyflavanone**

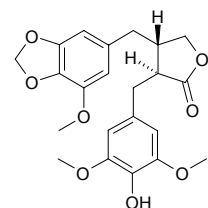
$C_{17}H_{16}O_5$ (300.31). Pale yellow crystals, mp 166~168°C. Source: TIAN ZI YU PAN *Uvaria dulcis* (leaf). Ref: 3928.

**10014 4-Hydroxy-3,5-dimethoxybenzyl alcohol 4-O- β -D-glucopyranoside**

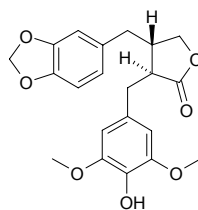
Di-O-Methylcrenatin $C_{15}H_{22}O_9$ (346.34). White powder, mp 175~177°, $[\alpha]_D^{21} = -21^\circ$. Source: HU SUI ZI *Coriandrum sativum*, XIAO YE SHI NAN *Photinia parvifolia* (stem). Ref: 4302, 4553.

**10015 (2S,3S)-2-(4-Hydroxy-3,5-dimethoxybenzyl)-3-(5-methoxy-3,4-methylenedioxybenzyl)butyrolactone**

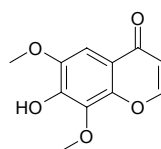
$C_{22}H_{24}O_8$ (416.43). Pale yellow gum, $[\alpha]_D^{25} = +30.5^\circ$ ($c = 0.38$, $CHCl_3$). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00036%). Ref: 4733.

**10016 (2S,3S)-2-(4-Hydroxy-3,5-dimethoxybenzyl)-3-(3,4-methylenedioxybenzyl)butyrolactone**

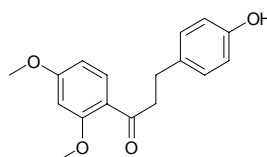
$C_{21}H_{22}O_7$ (386.41). Pale yellow gum, $[\alpha]_D^{25} = +34.8^\circ$ ($c = 0.253$, $CHCl_3$). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00024%). Ref: 4733.

**10017 7-Hydroxy-6,8-dimethoxy coumarin**

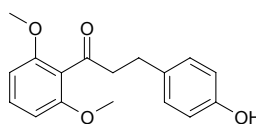
[486-21-5] $C_{11}H_{10}O_5$ (222.20). Yellowish acicular crystals, mp 146~148°C. Source: MAO LIAN HAO *Artemisia vestita*, HUANG HUA HAO *Artemisia annua*. Ref: 474, 660.

**10018 4-Hydroxy-2',4'-dimethoxydihydrochalcone**

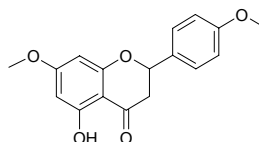
$C_{17}H_{18}O_4$ (286.33). Amorphous powder. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum* (bulb). Ref: 3997.

**10019 4-Hydroxy-2',6'-dimethoxydihydrochalcone**

$C_{17}H_{18}O_4$ (286.33). White columnar crystals, mp 129~130°C (EtOH). Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 414.

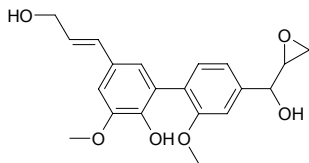
**10020 5-Hydroxy-4',7-dimethoxydihydroflavone**

$C_{17}H_{16}O_5$ (300.31). Pharm: Cytotoxic (*in vitro*, SMMC-7721, $IC_{50} > 200\mu g/mL$; HO-8910, $IC_{50} > 200\mu g/mL$; control Vincristine, SMMC-7721, $IC_{50} = 30.35\mu g/mL$; HO-8910, $IC_{50} = 20.74\mu g/mL$). Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0008%dw). Ref: 4736.



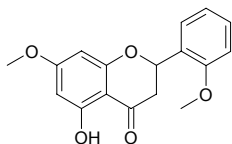
10021 2-Hydroxy-3,2'-dimethoxy-4'-(2,3-epoxy-1-hydroxypropyl)-5-(3-hydroxy-1-propenyl) biphenyl

$C_{20}H_{22}O_6$ (358.39). Source: *Eurycoma* sp. Ref: 4556.



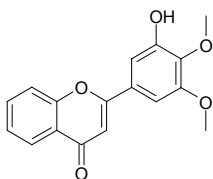
10022 5-Hydroxy-7,2'-dimethoxyflavone

$C_{17}H_{14}O_5$ (300.31). Pale yellow amorphous solid (MeOH), mp 222–224°C. Source: *Andrographis rothii* (whole herb). Ref: 4311.



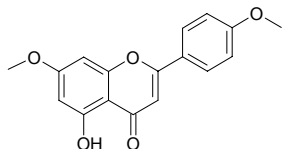
10023 3'-Hydroxy-4',5'-dimethoxyflavone

$C_{17}H_{14}O_5$ (298.30). White crystalline solid ($CHCl_3$). Source: HUANG HUA JIU LUN CAO *Primula veris* [Syn. *Primula officinalis*] (leaf). Ref: 5275.



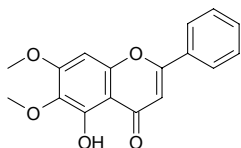
10024 5-Hydroxy-4',7-dimethoxy-flavone

Apigenin-4',7-dimethyl ether [5128-44-9] $C_{17}H_{14}O_5$ (298.30). mp 171–172°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], MI DIE XIANG *Rosmarinus officinalis*, WU JU LOU DOU CAI *Aquilegia ecalcarata* (whole herb: yield = 0.00014%dw)^[3029], XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YE TAI *Trocholejeunea sandvicensis*, *Nuxia sphaerocephala* (leaf). Ref: 6, 660, 3029, 3909, 4419, 5400.



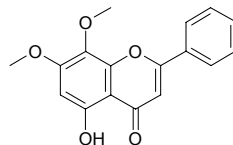
10025 5-Hydroxy-6,7-dimethoxyflavone

$C_{17}H_{14}O_5$ (298.30). Source: BAN BIAN SU *Elsholtzia ciliata*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*]. Ref: 660.



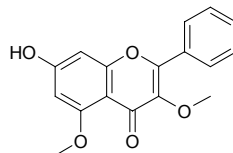
10026 5-Hydroxy-7,8-dimethoxyflavone

7-O-Methylwogonin [3570-62-5] $C_{17}H_{14}O_5$ (298.30). Source: HUANG QIN *Scutellaria baicalensis*, SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 2, 4149.



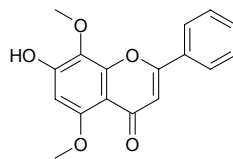
10027 7-Hydroxy-3,5-dimethoxyflavone

$C_{17}H_{14}O_5$ (298.30). Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 660.



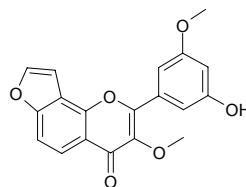
10028 7-Hydroxy-5,8-dimethoxyflavone

$C_{17}H_{14}O_5$ (298.30). Source: BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], ZI BEI HUANG QIN *Scutellaria discolor*. Ref: 660.



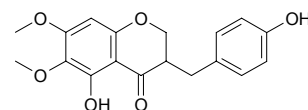
10029 3'-Hydroxy,3,5'-dimethoxy furo[8,7:4'',5'']flavone

$C_{19}H_{14}O_6$ (338.32). White crystals (MeOH), mp 230°C. Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3767.



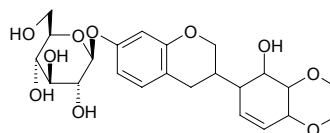
10030 5-Hydroxy-6,7-dimethoxy-3-(4'-hydroxybenzyl)-4-chromanone

$C_{18}H_{18}O_6$ (330.34). Yellow powder, mp 74–76°C (dec), $[\alpha]_D^{25} = +345.3^\circ$ ($c = 0.43$, MeOH). Source: HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). Ref: 3368.



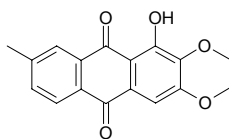
10031 2'-Hydroxy-3',4'-dimethoxy-isoflavane-7-O-β-D-glucoside

$C_{23}H_{32}O_{10}$ (468.51). Source: HUANG QI *Astragalus membranaceus*. Ref: 2.

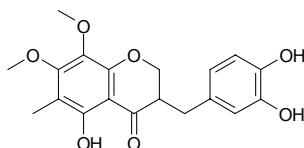


10032 1-Hydroxy-2,3-dimethoxy-7-methyl-9,10-anthraquinone

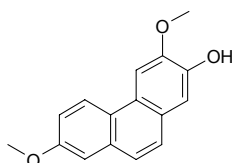
$C_{17}H_{14}O_5$ (298.30). Red needles (acetone), mp 159~161°C. Source: NAN SHAN HUA *Prismatomeris tetrandra* (root). Ref: 4521.

**10033 5-Hydroxy-7,8-dimethoxy-6-methyl-3-(3',4'-dihydroxybenzyl)chroman-4-one**

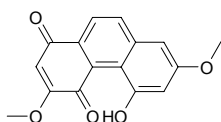
$C_{19}H_{20}O_7$ (360.37). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

**10034 2-Hydroxy-3,7-dimethoxyphenanthrene**

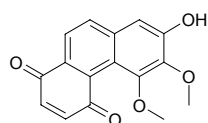
$C_{16}H_{14}O_3$ (254.29). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.

**10035 5-Hydroxy-3,7-dimethoxy-1,4-phenanthrenequinone**

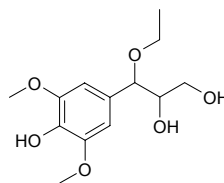
$C_{16}H_{12}O_5$ (284.27). Pharm: VHR DS-PTPase inhibitor ($IC_{50} > 200 \mu\text{mol/L}$, control RK-682, $IC_{50} = 11.6 \mu\text{mol/L}$); PTP1B inhibitor ($IC_{50} > 200 \mu\text{mol/L}$); Ppase1 inhibitor ($IC_{50} > 200 \mu\text{mol/L}$). Source: XI JING SHI HU *Dendrobium moniliforme* (stem). Ref: 5025.

**10036 7-Hydroxy-5,6-dimethoxy-1,4-phenanthrene-quinone**

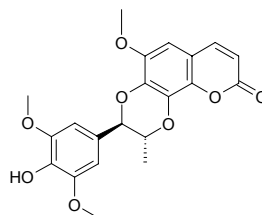
$C_{16}H_{12}O_5$ (284.27). Pharm: VHR DS-PTPase inhibitor ($IC_{50} = (3.0 \pm 0.2) \mu\text{mol/L}$, control RK-682, $IC_{50} = 11.6 \mu\text{mol/L}$)^[5025]; PTP1B inhibitor ($IC_{50} = (38.0 \pm 1.5) \mu\text{mol/L}$); Ppase1 inhibitor ($IC_{50} > 200 \mu\text{mol/L}$). Source: XI JING SHI HU *Dendrobium moniliforme* (stem). Ref: 5025.

**10037 threo-3-(4-Hydroxy-3,5-dimethoxyphenyl)-3-ethoxypropane-1,2-diol**

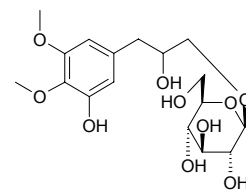
$C_{13}H_{20}O_6$ (272.3). Amorphous white powder, $[\alpha]_D^{25} = +28^\circ$ ($c = 0.10$, CHCl_3). Source: TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root; yield = 0.0037%dw). Ref: 4657.

**10038 2-(4-Hydroxy-3,5-dimethoxy-phenyl)-10-methoxy-3-methyl-2,3-dihydro-1,4,5-trioxaphenanthren-6-one**

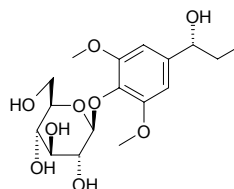
$C_{21}H_{20}O_8$ (400.39). Pale yellow solid, mp 240~244°C, $[\alpha]_D = -6.4^\circ$ ($c = 0.7$, $\text{CHCl}_3:\text{MeOH} = 1:1$). Pharm: Antioxidant (*in vitro*, rat liver microsomes lipid peroxidation, $IC_{50} = 1.4 \mu\text{g/mL}$); MAO inhibitor inactive ($70 \mu\text{g/mL}$). Source: MU JIN HUA *Hibiscus syriacus*. Ref: 3088.

**10039 1'-(3-Hydroxy-4,5-dimethoxyphenyl)propane-2',3'-diol 3'-O-β-D-glucopyranoside**

$C_{17}H_{26}O_{10}$ (390.39). Amorphous powder, $[\alpha]_D^{23} = -6^\circ$ ($c = 0.1$, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

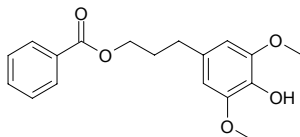
**10040 (1'R)-1'-(4-Hydroxy-3,5-dimethoxyphenyl)propan-1'-ol 4-O-β-D-glucopyranoside**

$C_{17}H_{26}O_9$ (374.39). Amorphous powder, $[\alpha]_D^{23} = -10^\circ$ ($c = 1.0$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

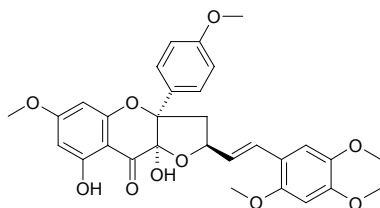


10041 3'-(4''-Hydroxy-3'',5''-dimethoxyphenyl)-propyl benzoate

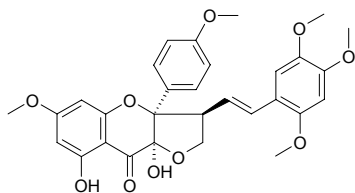
$C_{18}H_{20}O_5$ (316.36). Pale yellow amorphous mass. Pharm: Antifungal (*Candida albicans*, $IC_{50} = (11.41 \pm 1.44) \mu\text{g/mL}$, control Amphotericin B, $IC_{50} = (0.04 \pm 0.00) \mu\text{g/mL}$); Anti-inflammatory (COX-1 inhibitor, $IC_{50} = (4.95 \pm 0.58) \mu\text{g/mL}$, control Aspirin, $IC_{50} = (4.22 \pm 0.48) \mu\text{g/mL}$; COX-2 inhibitor, $IC_{50} = (2.11 \pm 0.12) \mu\text{g/mL}$, Aspirin, $IC_{50} = (13.66 \pm 0.59) \mu\text{g/mL}$). Source: *Croton hutchinsonianus* (branche: yield = 0.0031%dw). Ref: 1571.

**10042 *rel*-5-Hydroxy-7,4'-dimethoxy-2''*S*-(2,4,5-trimethoxy-*E*-styryl)-tetrahydrofuro[4''*R*,5''*R*:2,3]flavanonol**

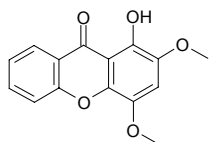
$C_{30}H_{30}O_{10}$ (550.57). Amorphous yellow powder, $[\alpha]_D^{21} = 0^\circ$ ($c = 0.3$, CHCl_3). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf: yield = 0.00040%dw). Ref: 4614.

**10043 *rel*-5-Hydroxy-7,4'-dimethoxy-3''*S*-(2,4,5-trimethoxy-*E*-styryl)-tetrahydrofuro[4''*R*,5''*R*:2,3]flavanonol**

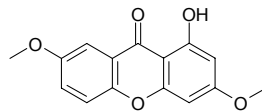
$C_{30}H_{30}O_{10}$ (550.57). Amorphous yellow powder, $[\alpha]_D^{21} = +5.1^\circ$ ($c = 0.2$, CHCl_3). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf: yield = 0.00031%dw). Ref: 4614.

**10044 1-Hydroxy-2,4-dimethoxyxanthone**

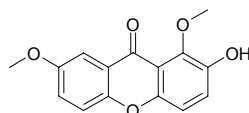
$C_{15}H_{12}O_5$ (272.26). Yellow needles, with yellow fluorescence, mp 165~169°C. Source: JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*]. Ref: 2517.

**10045 1-Hydroxy-3,7-dimethoxyxanthone**

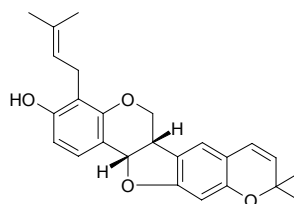
$C_{15}H_{12}O_5$ (272.26). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**10046 2-Hydroxy-1,7-dimethoxyxanthone**

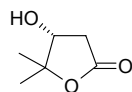
$C_{15}H_{12}O_5$ (272.26). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

**10047 3-Hydroxy-4-(3,3-dimethylallyl)-4'',5''-dehydropyrano [8,9:2'',3''][6*aR*,11*aR*]-pterocarpane**

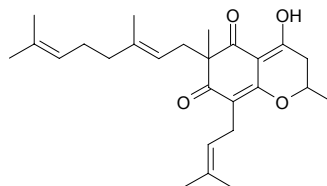
$C_{25}H_{26}O_4$ (390.48). White amorphous powder, mp 74~75°C, $[\alpha]_D^{25} = -36.1^\circ$ ($c = 0.3$, MeOH). Pharm: Cytotoxic (KB, $IC_{50} = (52.3 \pm 4.1) \mu\text{mol/L}$, control Helenalin, $IC_{50} = (0.64 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (6.0 \pm 0.5) \mu\text{mol/L}$; Mono-Mac-6, $IC_{50} > 75 \mu\text{mol/L}$, Helenalin, $IC_{50} = (3.1 \pm 0.3) \mu\text{mol/L}$; Jurkat-T, $IC_{50} = (53.6 \pm 1.1) \mu\text{mol/L}$, Helenalin, $IC_{50} = (1.14 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (9.1 \pm 0.8) \mu\text{mol/L}$)^[5077]. Source: *Bituminaria morisiana* (leaf). Ref: 5077.

**10048 (+)-(3*R*)-3-Hydroxy-4,4-dimethyl-4-butyrolactone**

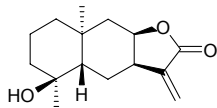
$C_6H_{10}O_3$ (130.14). Colorless oil, $[\alpha]_D^{25} = 53^\circ$ ($c = 0.34$, CHCl_3). Source: DA YE BAI TOU WENG *Anaphalis margaritacea*. Ref: 3853.

**10049 4-Hydroxy-2,6-dimethyl-6-(3,7-dimethyl-2,6-octadienyl)-8-(3-methyl-2-butenyl)-2*H*-1-benzopyran-5,7(3*H*,6*H*)-dione**

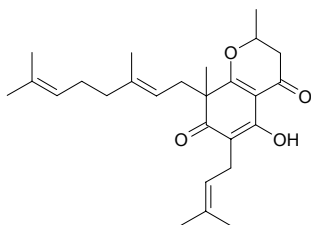
$C_{26}H_{36}O_4$ (412.57). Yellow oil, $[\alpha]_D^{25} = -1.31^\circ$ ($c = 0.57$, CHCl_3). Source: BAI BEI YE *Mallous apelta*. Ref: 755.



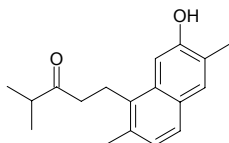
10050 4 β -Hydroxy-4,10 α -dimethyl-7 α H,8 α H-eudesman-11-ene-8,12-olide
 C₁₅H₂₂O₃ (250.34). Gum. Source: HE AN FU LAO JU *Flourensia riparia*
 (aerial parts). Ref: 3820.



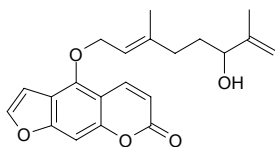
10051 5-Hydroxy-2,8-dimethyl-6-(3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)-2H-1-benzopyran-4,7(3H,8H)-dione
 C₂₆H₃₆O₄ (412.57). Yellow oil, $[\alpha]_D^{25} = -22^\circ$ ($c = 0.29$, CHCl₃). Source: BAI
 BEI YE *Mallotus apelta*. Ref: 755.



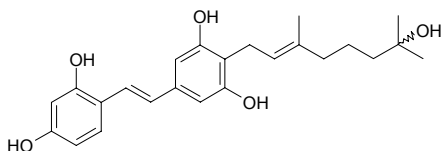
10052 1-(7-Hydroxy-2,6-dimethyl-1-naphthyl)-4-methyl-3-pentanone
 20(10→5)-Abeo-4,5-seco-5(10),6,8,11,13-podocarpapentaen-3-one C₁₈H₂₂O₂
 (270.37). White amorphous solid, mp 98~102°C. Pharm: Cytotoxic (*in vitro*,
 pulmonary adenocarcinoma A549 cells, IC₅₀ > 100 μmol/L; hepatocarcinoma
 Bel7402 cells, IC₅₀ = 34.7 μmol/L; gastric carcinoma BGC823 cells, IC₅₀ =
 35.2 μmol/L; colorectal adenocarcinoma HCT8 cells, IC₅₀ = 23.1 μmol/L;
 ovarian cancer A2780 cells, IC₅₀ > 100 μmol/L). Source: YI YE QIU
Securinega suffruticosa (callus). Ref: 4544.



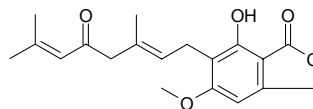
10053 5-(6-Hydroxy-3,7-dimethylocta-2,7-dienyloxy)psoralen
 C₂₁H₂₂O₅ (354.41). White solid. Pharm: Insect antifeedant (larvae of
Spodoptera littoralis, Feeding Index = (25±19)% at 0.001 mol/L; larvae of
Heliothis virescens, Feeding Index = (13±10)% at 0.001 mol/L). Source:
Tetradium daniellii (dried fruit). Ref: 3370.



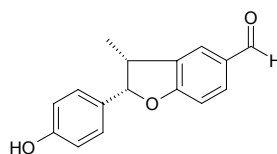
10054 4-[(2''E)-7''-Hydroxy-3'',7''-dimethyloct-2''-enyl]-2'',3,4',5-tetrahydroxy-trans-stilbene
 C₂₄H₃₀O₅ (398.50). Yellowish powder. Pharm: Tyrosinase inhibitor (IC₅₀ =
 96 μmol/L). Source: GAO HUANG LU SANG *Chlorophora excelsa*
 (heartwood). Ref: 4326.



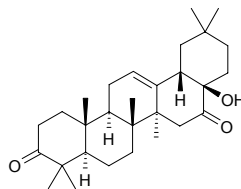
10055 3-Hydroxy-4-(3,7-dimethyl-5-oxo-2,6-octadienyl)-5-methoxybenzo[1,2-c]furan-2-one
 C₁₉H₂₂O₅ (330.38). Source: HOU TOU JUN *Hericium erinaceus* [Syn.
Hydnum erinaceus]. Ref: 660.



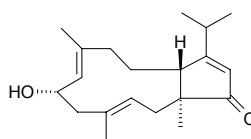
10056 (7S,8R)-4-Hydroxy-8',9'-dinor-4',7-epoxy-8,3'-neolignan-7'-aldehyde
 C₁₆H₁₄O₃ (254.29). Yellow oil, $[\alpha]_D^{21} = -30.1^\circ$ ($c = 0.10$, MeOH). Source:
Piper regnelli (root). Ref: 2358.



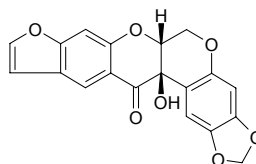
10057 17 β -Hydroxy-3,16-dioxo-28-norolean-12-ene
 C₂₉H₄₄O₃ (440.67). Glassy amorphous solid, $[\alpha]_D^{20} = +39^\circ$ ($c = 0.12$,
 CHCl₃). Source: XIAO SHE JU GEN *Microglossa pyriformis*. Ref: 5374.



10058 (1S*,6S*,11S*)-6-Hydroxydolabella-3E,7E,12-trien-14-one
 C₂₀H₃₀O₂ (302.46). Clear film, $[\alpha]_D^{20} = -142^\circ$ ($c = 0.23$, CHCl₃). Source:
 fungus *Stachybotrys chartarum*. Ref: 5104.

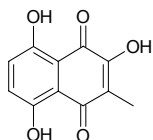


10059 12 α -Hydroxydoloneone
 C₁₉H₁₂O₇ (352.30). Needles (CHCl₃-MeOH), mp 14~195°C, mp 180~181°C,
 $[\alpha]_D = +42^\circ$. Pharm: Antiviral (HSV-1, IC₅₀ = 25.5 μg/mL, HSV-2, 50 μg/mL,
 InRt = 42.5%)^[4180]. Source: DI GUA ZI *Pachyrrhizus erosus*, *Neorautanenia*
edulis, DOU SHU *Pachyrrhizus erosus* (seed). Ref: 6, 1521, 4180.

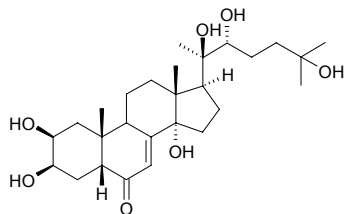


10060 Hydroxydroserone

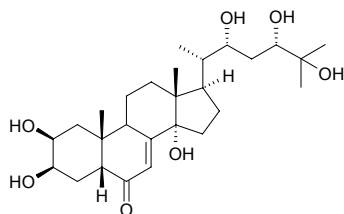
$C_{11}H_8O_5$ (220.18). Red plates (AcOH), mp 192~193°C. Source: MAO GAO CAI *Drosera peltata* var. *lunata*, HUI TE KE MAO GAO CAI *Drosera whittakeri*. Ref: 621, 1521.

**10061 20-Hydroxyecdysone**

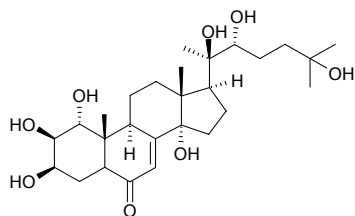
$C_{27}H_{44}O_7$ (480.65). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*, YING ZI CAO *Silene fortunei* (root: yield = 0.0032%dw). Ref: 2448, 4658.

**10062 24-Hydroxyecdysone**

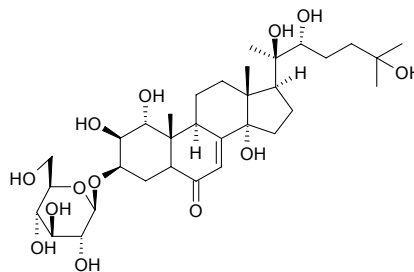
$C_{27}H_{44}O_7$ (480.65). Source: DUO ZU JUE *Polypodium vulgare*. Ref: 1521.

**10063 1 α ,20R-Hydroxyecdysone**

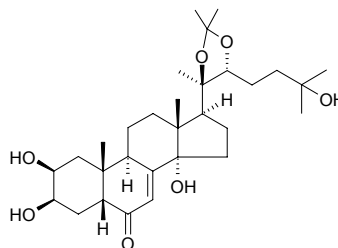
1 α ,20R-Dihydroxyecdysone $C_{27}H_{44}O_8$ (496.65). White powder. Pharm: Ecdysteroid agonist (*Drosophila melanogaster* B₁₁ cell line, EC₅₀ = 7.5nmol/L)^[5142]. Source: MAO JIAN QIU LUO *Lychnis coronaria*, NIU QU TI GEN CAO *Helleborus torquatus* [Syn. *Helleborus serbicus*] (seed). Ref: 2189, 5142.

**10064 20-Hydroxyecdysone 3-O- β -D-glucoside**

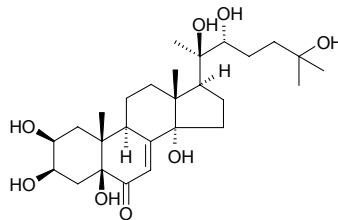
1 α ,20R-Dihydroxyecdysone 3-O- β -D-glucoside $C_{33}H_{54}O_{13}$ (658.79). Pharm: Ecdysteroid agonist (*Drosophila melanogaster* B₁₁ cell line, EC₅₀ = 13 μ mol/L). Source: NIU QU TI GEN CAO *Helleborus torquatus* [Syn. *Helleborus serbicus*] (seed). Ref: 5142.

**10065 20-Hydroxyecdysone-20,22-monoacetonide**

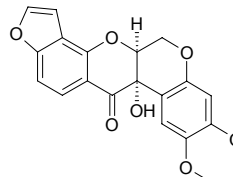
$C_{30}H_{48}O_7$ (520.71). Source: YI BAO MA HUA TOU *Serratula strangulata* (root stem). Ref: 5244.

**10066 5 β -Hydroxyecdysterone**

5 β ,20R-Dihydroxyecdysone $C_{27}H_{44}O_8$ (496.65). mp 256°C. Source: SHUI LONG GU *Polypodium niponicum*. Ref: 6.

**10067 6 α ,12 $\alpha\alpha$ -12a-Hydroxyelliptone**

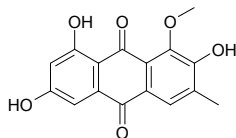
$C_{20}H_{16}O_7$ (368.35). Colorless oil, $[\alpha]_D^{25} = -4.4^\circ$ ($c = 0.068$, CHCl₃). Pharm: Anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100 mol ratio/32pmol TPA, EBV-EA positive cells = 66.4% viability, positive control β -Carotene, EBV-EA positive cells = 82.7% viability). Source: YU TENG *Derris trifoliata* (stem). Ref: 4982.



10068 2-Hydroxyemodin 1-methyl ether

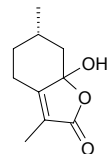
$C_{16}H_{12}O_6$ (300.27). Yellow needles (EtOAc-*n*-hexane), mp 292~294°C.

Pharm: Cytotoxic (*in vitro*, Calu1, $IC_{50} = (21 \pm 5) \mu\text{mol/L}$; HeLa, $IC_{50} = (50 \pm 6) \mu\text{mol/L}$; K562, $IC_{50} > 100 \mu\text{mol/L}$; Raji, $IC_{50} < 6.25 \mu\text{mol/L}$; Vero, $IC_{50} = (32.5 \pm 4.5) \mu\text{mol/L}$; Wish, $IC_{50} = (55 \pm 6) \mu\text{mol/L}$). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

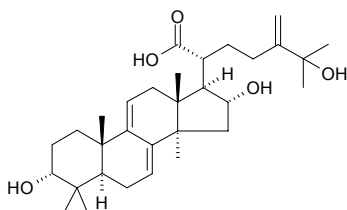
**10069 3-Hydroxy-4(8)-ene-*p*-menthane-3(9)-lactone**

$C_{10}H_{14}O_3$ (182.22). Colorless plate crystals, $[\alpha]_D^{18} = +60.21^\circ$ ($c = 0.68$, MeOH).

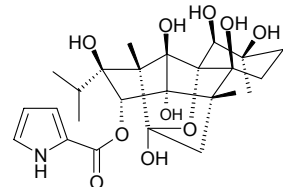
Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. **Ref:** 2158.

**10070 25-Hydroxy-3-epidehydrotumulosic acid**

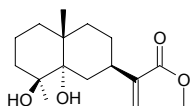
$C_{31}H_{48}O_5$ (500.73). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.00011%dw). **Ref:** 4616.

**10071 9-Hydroxy-9-epi-10-epi-ryanodine**

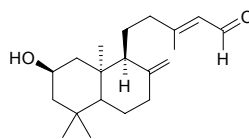
$C_{25}H_{35}NO_{10}$ (509.56). Crystals ($\text{CHCl}_3:\text{Me}_2\text{CO} = 3:1$), mp 178°C, $[\alpha]_D = +11^\circ$ ($c = 1.0$). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 1800 \text{nmol/L}$). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

**10072 5 α -Hydroxy-4-epi-ilicic acid methyl ester**

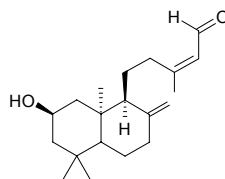
$C_{16}H_{26}O_4$ (292.38). Colorless needles (MeOH), mp 120~121°C, $[\alpha]_D^{20} = +13.4^\circ$ ($c = 0.49$, MeOH). **Source:** LIU LENG JU *Laggera alata* (aerial parts: yield = 0.0009%dw). **Ref:** 4709.

**10073 2 β -Hydroxy-9-epi-ent-labda-8(17),13(E)-dien-15-al**

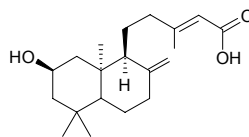
$C_{20}H_{32}O_2$ (304.48). **Source:** BU MEI HE BAO HUA *Calceolaria inamoena* (aerial parts). **Ref:** 3788.

**10074 2 β -Hydroxy-9-epi-ent-labda-8(17),13(Z)-dien-15-al**

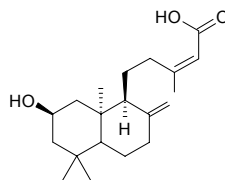
$C_{20}H_{32}O_2$ (304.48). **Source:** BU MEI HE BAO HUA *Calceolaria inamoena* (aerial parts). **Ref:** 3788.

**10075 2 β -Hydroxy-9-epi-ent-labda-8(17),13(E)-dien-15-oic acid**

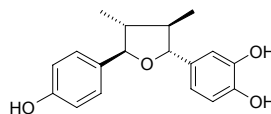
$C_{20}H_{32}O_3$ (320.48). **Source:** BU MEI HE BAO HUA *Calceolaria inamoena* (aerial parts). **Ref:** 3788.

**10076 2 β -Hydroxy-9-epi-ent-labda-8(17),13(Z)-dien-15-oic acid**

$C_{21}H_{34}O_3$ (334.50). **Source:** BU MEI HE BAO HUA *Calceolaria inamoena* (aerial parts). **Ref:** 3788.

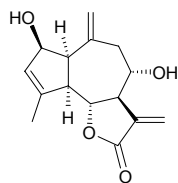
**10077 3''-Hydroxy-4-epi-larreatricin**

3-Hydroxy-8-epi-larreatricin $C_{18}H_{20}O_4$ (300.36). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, $IC_{50} = (1.3 \pm 0.3) \mu\text{g/mL}$; control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} = (13.6 \pm 0.8) \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$)^[3850]. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 1521, 3850.

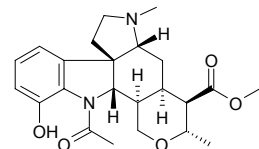


10078 2 β -Hydroxyepiligustrin

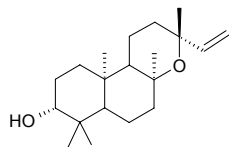
C₁₅H₁₈O₄ (262.31). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**10079 12-Hydroxy-19-epi-malagashanine**

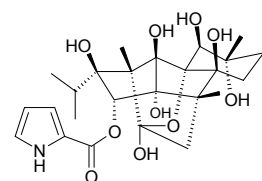
C₂₃H₃₀N₂O₅ (414.51). Crystals (*n*-hexane), mp 93–95°C, [α]_D²⁰ = –69.4° (*c* = 0.3, CHCl₃). Source: *Strychnos myrtoides*. Ref: 2297.

**10080 ent-3 β -Hydroxy-13-epi-manoyl oxide**

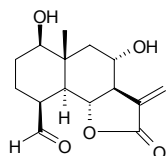
C₂₀H₃₄O₂ (306.49). Colorless needles (MeOH), mp 82–84°C, [α]_D²⁵ = –15.2° (*c* = 1.3, CHCl₃). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**10081 9-Hydroxy-10-epi-ryanodine**

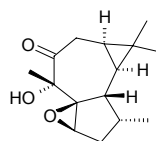
C₂₅H₃₅NO₁₀ (509.56). Crystals (CHCl₃:Me₂CO = 3:1), mp 169°C, [α]_D = +2° (*c* = 0.1). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**10082 8 α -Hydroxy-4-epi-sonchucarpolide**

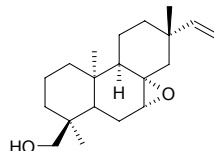
C₁₅H₂₀O₅ (280.32). Oil, [α]_D²⁰ = +7.1° (*c* = 0.18, CHCl₃). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.25 μ g/mL, control Miconazole, MIC = 1.5 μ g/mL; *Aspergillus ochraceus*, MIC = 0.25 μ g/mL, Miconazole, MIC = 1.5 μ g/mL; *Aspergillus versicolor*, MIC = 0.125 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Aspergillus flavus*, MIC = 0.25 μ g/mL, Miconazole, MIC = 0.5 μ g/mL; *Penicillium ochrochloron*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Penicillium funiculosum*, MIC = 1 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Trichoderma viride*, MIC = 0.25 μ g/mL, Miconazole, MIC = 2 μ g/mL; *Cladosporium cladosporioides*, MIC = 0.5 μ g/mL, Miconazole, MIC = 0.03 μ g/mL; *Alternaria alternata*, MIC = 0.5 μ g/mL, Miconazole, MIC = 0.5 μ g/mL). Source: *Centaurea thessala* ssp. *drakiensis* (aerial parts). Ref: 5115.

**10083 10 α -Hydroxy-1,2-epoxyaromadendran-9-one**

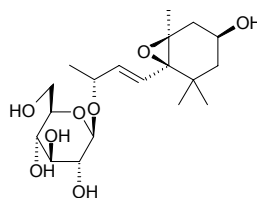
C₁₅H₂₂O₃ (250.34). Oil, [α]_D²⁵ = –12° (*c* = 0.85, CHCl₃). Source: *Curvularia lunata*. Ref: 5140.

**10084 18-Hydroxy-7 α ,8 α -epoxy-9-epi-ent-pimara-15-ene**

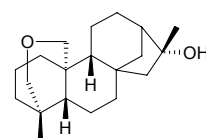
C₂₀H₃₂O₂ (304.48). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.

**10085 (3S,5S,6R,9R)-3-Hydroxy-5,6-epoxy- β -ionol-9-O- β -glucopyranoside**

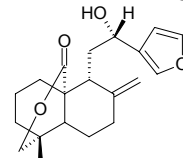
C₁₉H₃₂O₈ (388.46). [α]_D²¹ = –52.5° (*c* = 0.8, MeOH). Source: JIN HUANG CAO SU *Phlomis aurea* (leaf). Ref: 5093.

**10086 16-Hydroxy-19,20-epoxy-kaurane**

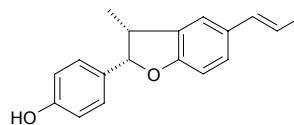
C₂₀H₃₂O₂ (304.48). Colorless acicular crystals (CHCl₃), mp 177–179°C. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 683.

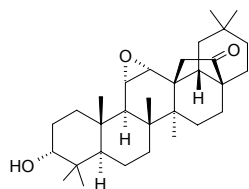
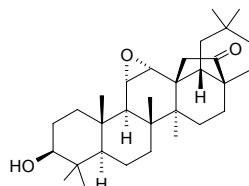
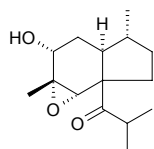
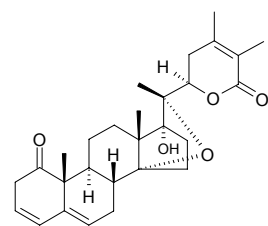
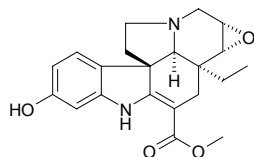
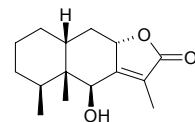
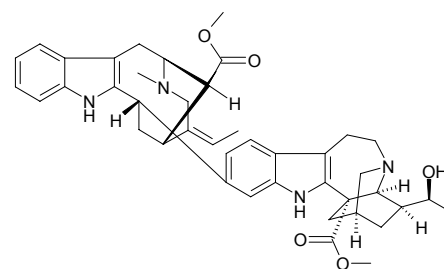
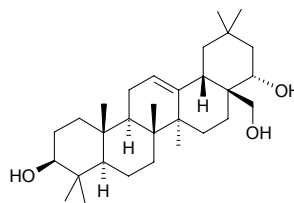
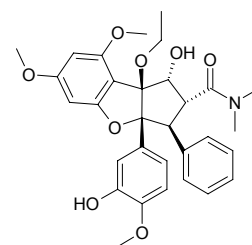
**10087 12(S)-Hydroxy-15,16-epoxy-8(17),13(16),14-ent-labdatrien-20,19-olide**

C₂₀H₂₆O₄ (330.43). Colorless oil, [α]_D²⁵ = –25.7° (*c* = 0.31, CHCl₃). Pharm: Phytotoxin (*Raphidocelis subcapitata*, IC₅₀ = 4.40 μ mol/L). Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**10088 (7S,8R)-4-Hydroxy-4',7-epoxy-8,3'-neolignan-(7E)-ene**

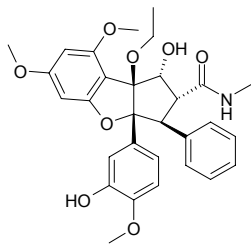
C₁₈H₁₈O₂ (266.34). White amorphous, [α]_D²¹ = +85.5° (*c* = 0.06, MeOH). Source: *Piper regnellii* (root). Ref: 2358.



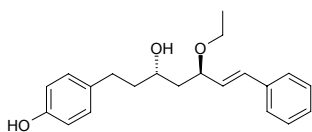
10089 3 α -Hydroxy-11 α ,12 α -epoxy-oleanane-28,13 β -olideC₃₁H₄₈O₃ (468.73). **Pharm:** Cytotoxic (leukemia cells L₁₂₁₀, IC₅₀ = 30 μ g/mL).**Source:** *Juliania adstringens* (bark). **Ref:** 3786.**10090 3 β -Hydroxy-11 α ,12 α -epoxy-oleanane-28,13 β -olide**C₃₁H₄₈O₃ (468.73). **Source:** *Juliania adstringens* (bark). **Ref:** 3786.**10091 3 α -Hydroxy-4 α ,5 α -epoxy-7-oxo-(8[7 \rightarrow 6]-abeoamorphane**C₁₅H₂₄O₃ (252.36). Colorless oil, [α]_D = -9.3° (*c* = 0.9, CHCl₃). **Source:**HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 3435.**10092 17 β -Hydroxy-14 α ,20 α -epoxy-1-oxo-(22*R*)-witha-3,5,24-trienolide**C₂₈H₃₆O₅ (452.60). [α]_D²⁵ = -11° (*c* = 0.0062, CHCl₃-MeOH). **Source:** NINGGU SHUI QIE *Withania coagulans*. **Ref:** 3378.**10093 11-Hydroxy-14,15 α -epoxytabersonine**[140680-64-4] C₂₁H₂₄N₂O₄ (368.43). White crystals, mp 216°C (dec), [α]_D =-350° (*c* = 1.0, chloroform). **Pharm:** Antineoplastic (P₃₈₈); spermaticidal (*in vitro*, 0.2mg/mL). **Source:** CHUAN SHAN CHENG *Melodinus hemsleyanus*.**Ref:** 1093, 1183.**10094 6-Hydroxyeremophilinolide**[10250-03-0] C₁₅H₂₂O₃ (250.34). Crystals (Et₂O), mp 208°C, [α]_D = +205.8°(*c* = 1.0, chloroform). **Source:** FENG DOU CAI *Petasites japonicus*, BAI HUA FENG DOU CAI *Petasites albus*, HU LU QI *Ligularia fisheri*. **Ref:** 6, 1521.**10095 19'(S)-Hydroxyervahanine A**C₄₂H₅₀N₄O₅ (690.89). Light yellowish oil, [α]_D = -105° (*c* = 0.16, CHCl₃).**Source:** SAN FANG HUA XU HONG YUE GUI *Tabernaemontana corymbosa*. **Ref:** 3403.**10096 22 α -Hydroxyerythrodiol**12-Oleanene-3,22,28-triol; Sapogenin ST-I [20475-26-7] C₃₀H₅₀O₃ (458.73).Crystals (MeOH), mp 279~282°C, [α]_D²⁰ = +37° (*c* = 1, pyridine). **Source:**CHA MEI *Camellia sasanqua*, CHA ZI XIN *Camellia oleifera*, HU ZHI ZI *Lespedeza bicolor*. **Ref:** 6, 1521.**10097 3'-Hydroxy-8 β -ethyl ether-rocaglic acid dimethylamide**[259143-55-0] C₃₁H₃₅NO₈ (549.63). **Pharm:** Insecticidal inactive (neonatelarvae of *Spodoptera littoralis*)^[2376]. **Source:** *Aglaiia duperreana* **Ref:** 2376.

10098 3'-Hydroxy-8b-ethyl ether-rocaglic acid methylamide

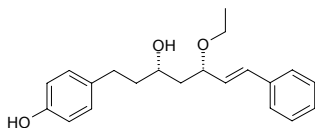
[259143-56-1] C₃₀H₃₃NO₈ (535.60). **Pharm:** Insecticidal inactive (neonate larvae of *Spodoptera littoralis*). **Source:** *Aglaia duperreana*. **Ref:** 2376.

**10099 (3S,5R)-3-Hydroxy-5-ethoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene**

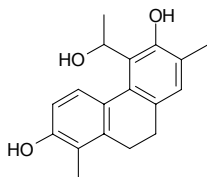
C₂₁H₂₆O₃ (326.44). Light yellow amorphous solid, [α]_D²⁵ = +49.5° (c = 0.10, MeOH). **Pharm:** Cytotoxic inactive (Colon26-L5, HT1080, 100μmol/L). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000093%). **Ref:** 3042.

**10100 (3S,5S)-3-Hydroxy-5-ethoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene**

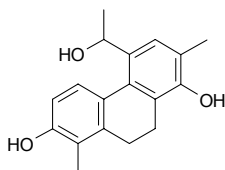
C₂₁H₂₆O₃ (326.44). Light yellow amorphous solid, [α]_D²⁵ = +73.9° (c = 0.04, MeOH). **Pharm:** Cytotoxic (Colon26-L5, ED₅₀ = 94.6μmol/L; HT1080, ED₅₀ > 100μmol/L). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000093%). **Ref:** 3042.

**10101 5-(1-Hydroxyethyl)-2,6-dihydroxy-1,7-dimethyl-9,10-dihydro-phenanthrene**

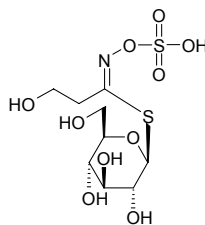
C₁₈H₂₀O₃ (284.36). **Source:** DENG XIN CAO *Juncus effusus*. **Ref:** 660.

**10102 5-(1-Hydroxyethyl)-2,8-dihydroxy-1,7-dimethyl-9,10-dihydro-phenanthrene**

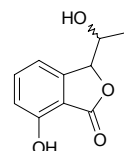
C₁₈H₂₀O₃ (284.36). **Source:** DENG XIN CAO *Juncus effusus*. **Ref:** 660.

**10103 2-Hydroxyethyl glucosinolate**

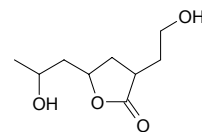
C₉H₁₇NO₁₀S₂ (363.36). **Source:** MA BING LANG *Capparis masaikai*. **Ref:** 660.

**10104 3ξ-(1ξ-Hydroxyethyl)-7-hydroxy-1-isobenzofuranone**

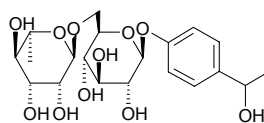
C₁₀H₁₀O₄ (194.19). Brown solid, mp 102–103°C, [α]_D²⁰ = –50.0° (c = 0.08, CHCl₃). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 100μg/mL, MIC = 0.474μmol/L, control Kanamycin, MIC = 3.13μg/mL; *Bacillus subtilis*, MIC = 50μg/mL, MIC = 0.237μmol/L, Kanamycin, MIC = 6.25μg/mL; *Escherichia coli*, MIC = 50μg/mL, MIC = 0.237μmol/L, Kanamycin, MIC = 12.5μg/mL; *Proteus vulgaris*, MIC = 50μg/mL, MIC = 0.237μmol/L, Kanamycin, MIC = 12.5μg/mL); antifungal (*Aspergillus niger*, MIC = 100μg/mL, MIC = 0.474μmol/L; *Candida albicans*, MIC = 100μg/mL, MIC = 0.474μmol/L, control Fluconazole, MIC = 25μg/mL, MIC = 0.082μmol/L). **Source:** YIN DU JIU LI XIANG *Murraya koenigii* (stem cortex). **Ref:** 5299.

**10105 3-(2'-Hydroxyethyl)-5-(2''-hydroxypropyl)-dihydrofuran-2(3H)-one**

C₉H₁₆O₄ (188.23). Yellow oil, [α]_D²³ = +77.94° (c = 1.36, MeOH). **Source:** DIAO DENG SHU *Kigelia pinnata*. **Ref:** 3418.

**10106 1-(1-Hydroxyethyl)-4β-rutinosyloxybenzene**

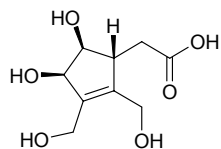
C₂₀H₃₀O₁₁ (446.46). **Source:** MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*]. **Ref:** 660.



10107 7-Hydroxy eucommic acid

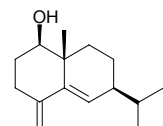
$C_9H_{14}O_6$ (218.21). Yellowish-brown oil, $[\alpha]_D^{17} = -73.16^\circ$ ($c = 1.45$, MeOH).

Source: DIAO DENG SHU *Kigelia pinnata*. Ref: 3418.

**10108 1 β -Hydroxy-4(15),5-eudesmadiene**

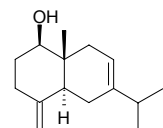
$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_D = +6.9^\circ$ ($c = 0.3$, $CHCl_3$). Source:

HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**10109 1 β -Hydroxy-4(15),7-eudesmadiene**

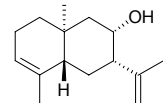
$C_{15}H_{24}O$ (220.36). Colorless oil; $[\alpha]_D^{17} = +5^\circ$ ($c = 0.30$, $CHCl_3$); colorless needles (petroleum ether–EtOAc), $[\alpha]_D^{20} = -18^\circ$ ($c = 0.1$, $CHCl_3$). Source:

HUANG HUA HAO *Artemisia annua* (seed), YI NIAN PENG *Erigeron annuus* (aerial parts), ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). Ref: 3435, 4786, 5073.

**10110 (+)-8 α -Hydroxy-eudesma-3,11-diene**

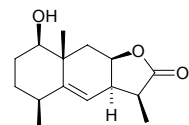
$C_{15}H_{24}O$ (220.36). Colorless oil. Source: *Tritomaria polita* (essential oil).

Ref: 3446.

**10111 1 β -Hydroxy-4 α ,11 α -eudesma-5-en-12,8 β -olide**

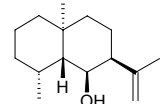
$C_{15}H_{22}O_3$ (250.34). Colorless gum, $[\alpha]_D^{20} = +17.2^\circ$ ($c = 0.58$, $CHCl_3$). Source:

JIN FEI CAO *Inula japonica*. Ref: 5422.

**10112 (+)-6 β -Hydroxy-eudesm-11-ene**

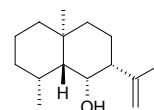
$C_{15}H_{26}O$ (222.37). Colorless oil. Source: *Tritomaria polita* (essential oil).

Ref: 3446.

**10113 (–)-6 α -Hydroxy-eudesm-11-ene**

$C_{15}H_{26}O$ (222.37). Colorless oil. Source: *Tritomaria polita* (essential oil).

Ref: 3446.

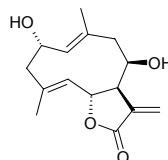
**10114 2 α -Hydroxyeupatolide**

$C_{15}H_{20}O_4$ (264.32). Source: CHENG GAN SHENG MA *Eupatorium*

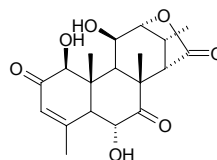
lindleyanum (whole herb: yield = 0.00091%dw)^[4762], HUA ZE LAN

Eupatorium chinense (whole herb: yield = 0.0314%)^[4739]. Ref: 4739,

4762.

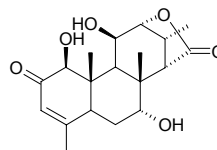
**10115 6 α -Hydroxyeurycomalactone**

$C_{19}H_{24}O_7$ (364.40). Source: *Eurycoma* sp. Ref: 4556.

**10116 7 α -Hydroxyeurycomalactone**

$C_{19}H_{26}O_6$ (350.42). Pharm: Cytotoxic (P₃₈₈ cells, IC₅₀ = 0.11 μ g/mL)^[4556].

Source: *Eurycoma* sp. Ref: 4556.

**10117 Hydroxyevodiamine**

Rhetsinine [526-43-2] $C_{19}H_{17}N_3O_2$ (319.37). Yellow crystals ($CHCl_3$ –EtOH),

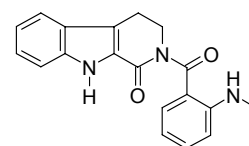
mp 206–207°C (192°C dec). Source: HUA NAN WU ZHU YU *Evodia*

austrosinensis (dried and almost ripe fruit: content = 0.08%)^[5508], WU ZHU YU

Evodia rutaecarpa (dried and almost ripe fruit: content scope of 2 origins =

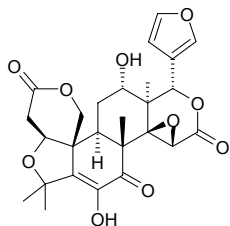
0.35%–0.55%, mean content = 0.45%)^[5508], *Zanthoxylum rhesta* (trunk bark).

Ref: 2, 347, 1521, 5508.

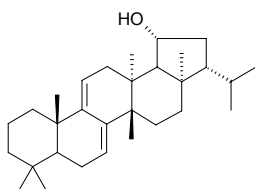


10118 12 α -Hydroxyevodol

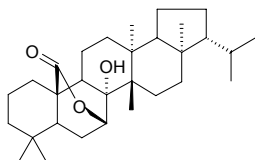
C₂₆H₂₈O₁₀ (500.51). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877.

**10119 19 α -Hydroxyferna-7,9(11)-diene**

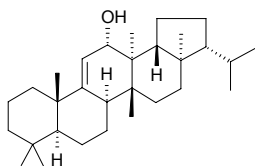
C₃₀H₄₈O (424.72). mp 213~214°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum* (fresh frond). Ref: 5187.

**10120 8 α -Hydroxyfernan-25,7 β -olide**

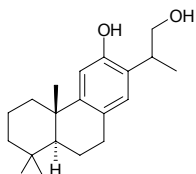
C₃₀H₄₈O₃ (456.72). mp 268~271°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum* (fresh frond). Ref: 5187.

**10121 12 α -Hydroxyfern-9(11)-ene**

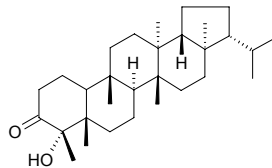
C₃₀H₅₀O (426.73). mp 110~113°C. Source: BING YE SUO LUO *Yathea podophylla* (fresh frond). Ref: 4401.

**10122 16-Hydroxy ferruginol**

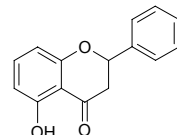
C₂₀H₃₀O₂ (302.46). mp 83~85°C, [α]_D²² = +55.9° (*c* = 0.54, CHCl₃). Source: DAN HUANG XIANG CHA CAI *Isodon flavidus*. Ref: 4067.

**10123 4 α -Hydroxyfilican-3-one**

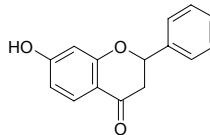
C₃₀H₅₀O₂ (442.73). Source: ZHU ZONG CAO *Adiantum capillus-veneris* (fresh frond). Ref: 4230.

**10124 5-Hydroxyflavanone**

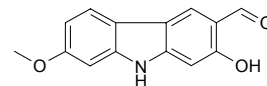
C₁₅H₁₂O₃ (240.26). Pale yellow needles (MeOH), mp 124°C, [α]_D¹⁸ = -11.0° (*c* = 0.1, CHCl₃). Pharm: MAO-A inhibitor (rat brain mitochondrial enzyme, IC₅₀ = 39.6 μ g/mol/L); MAO-B inhibitor (rat brain mitochondrial enzyme, IC₅₀ = 3.8 μ g/mol/L). Source: HUANG LONG DAN *Gentiana lutea*. Ref: 3838.

**10125 7-Hydroxyflavanone**

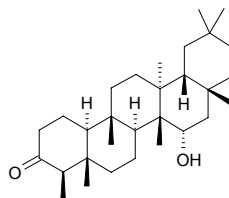
C₁₅H₁₂O₃ (240.26). Source: JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0013%dw). Ref: 4716.

**10126 2-Hydroxy-3-formyl-7-methoxycarbazole**

[119736-83-3] C₁₄H₁₁NO₄ (241.25). Crystals (acetone), mp 226~227°C. Pharm: Cytotoxic (BST, LC₅₀ 35.1mg/L, 9KB, ED₅₀ = 5.7 μ g/mL, KBMRI, ED₅₀ = 4.48 μ g/mL, A549, ED₅₀ = 2.74 μ g/mL, HT29, ED₅₀ = 4.00 μ g/mL); antibacterial (*Mycobacterium tuberculosis*, MIC = 100 μ g/mL, control Isoniazide, MIC = 0.040~0.090 μ g/mL, kanamycin sulfate, MIC = 2.0~5.0 μ g/mL)^[5367]; antifungal (*Candida albicans*, IC₅₀ = 2.8 μ g/mL, control Amphotericin, IC₅₀ = 0.01 μ g/mL)^[5367]. Source: SHAN HUANG PI *Clausena excavata*, YUAN DONG JIU LI XIANG *Murraya siamensis*. Ref: 1065, 1073, 5367.

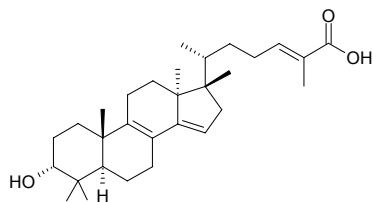
**10127 15 α -Hydroxyfriedelane-3-one**

C₃₀H₅₀O₂ (442.73). Pharm: DPPH scavenger inactive (for 40 μ mol/L DPPH radical, SC₅₀ > 40 μ mol/L). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

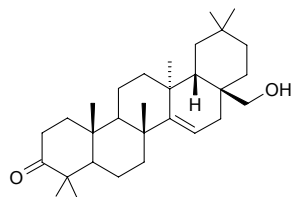


10128 (24E)-3 α -Hydroxy-17,14-friedo-lanostan-8,14,24-trien-26-oic acid

$C_{30}H_{46}O_3$ (454.70). White solid, mp 231~232°C, $[\alpha]_D^{29} = -59^\circ$ ($c = 0.84$, MeOH). Source: SHAN FENG GUO *Garcinia hombroniana* (pericarp). Ref: 5085.

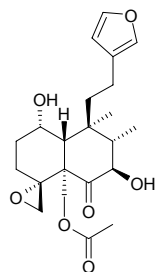
**10129 28-Hydroxy-D-friedo-olean-14-en-3-one**

$C_{30}H_{48}O_2$ (440.72). Source: YANG MEI SHU PI *Myrica rubra*. Ref: 660.

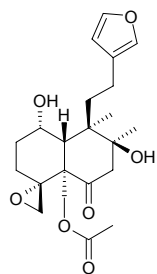
**10130 7 β -Hydroxyfruticolone**

$C_{22}H_{30}O_7$ (406.48). White amorphous solid, $[\alpha]_D^{25} = +22.0^\circ$ ($c = 0.11$, $CHCl_3$).

Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu g/cm^2$, $FR_{50} = 0.57 \pm 0.04$). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

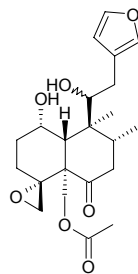
**10131 8 β -Hydroxyfruticolone**

$C_{22}H_{30}O_7$ (406.48). Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu g/cm^2$, $FR_{50} = 0.57 \pm 0.17$). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

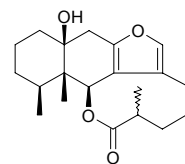
**10132 11-Hydroxyfruticolone**

$C_{22}H_{30}O_7$ (406.48). White amorphous solid, $[\alpha]_D^{25} = +45.0^\circ$ ($c = 0.12$, $CHCl_3$).

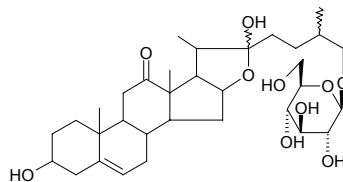
Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu g/cm^2$, $FR_{50} = 0.45 \pm 0.07$). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

**10133 10 β -Hydroxyfuranocremophilan-6 β -yl-2' ξ -methylbutanoate**

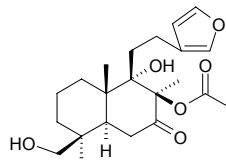
$C_{20}H_{30}O_4$ (334.46). Source: LIAN PENG CAO *Farfugium japonicum*. Ref: 6.

**10134 22-Hydroxy-25(R,S)-furost-5-en-12-on-3 β ,22,26-triol 26-O- β -D-glucopyranoside**

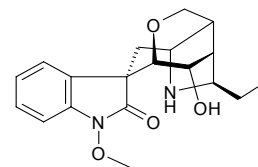
$C_{33}H_{52}O_{10}$ (608.79). Colorless needles, mp 142~143°C, $[\alpha]_D^{17} = -0.024^\circ$ ($c = 0.11$, MeOH). Source: YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*] (rhizome). Ref: 4813.

**10135 19-Hydroxygaleopsin**

$C_{20}H_{30}O_6$ (392.50). White powder. Source: WEI YI MU CAO *Leonurus cardiaca*. Ref: 2499.

**10136 14-Hydroxygelsedine**

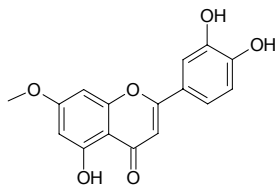
$C_{19}H_{24}N_2O_4$ (344.41). mp 214~216°C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.



10137 Hydroxygenkwain

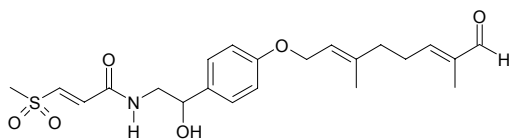
$C_{16}H_{12}O_6$ (300.27). mp 283~285°C. **Pharm:** Antitussive (dispels phlegm).

Source: YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.221%^[5535], content = 0.24%^[5508], leaf: mean content = 0.32%^[5508]). **Ref:** 6, 5508, 5535.

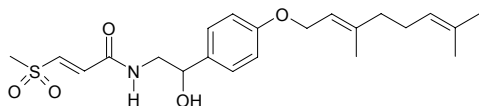
**10138 β -Hydroxygerambullal**

(*E*)-3-(Methylsulfonyl)propenoic acid (2*E*,6*E*)-2-[4-(3,7-dimethyl-8-oxo-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide $C_{22}H_{29}NO_6S$ (435.54).

Colorless oil, $[\alpha]_D^{20} = +21^\circ$ ($c = 0.4$, $CHCl_3$). **Source:** LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). **Ref:** 3956.

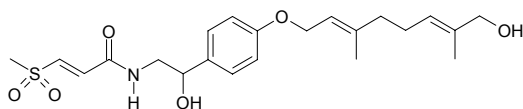
**10139 β -Hydroxygerambullin**

(*E*)-3-(Methylsulfonyl)propenoic acid (*E*)-2-[4-(3,7-dimethyl-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide $C_{22}H_{31}NO_5S$ (421.56). Colorless crystals (Et_2O), mp 126~128°C, $[\alpha]_D^{20} = +25^\circ$ ($c = 0.2$, $CHCl_3$). **Source:** LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). **Ref:** 3956.

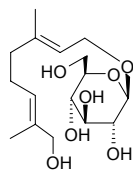
**10140 β -Hydroxygerambullol**

(*E*)-3-(Methylsulfonyl)propenoic acid (2*E*,6*E*)-2-[4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide $C_{22}H_{31}NO_6S$ (437.56).

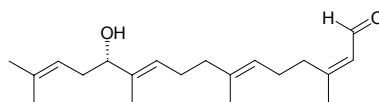
Colorless crystals ($Et \odot$), mp 131~133°C, $[\alpha]_D^{20} = +38^\circ$ ($c = 0.2$, $CHCl_3$). **Source:** LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). **Ref:** 3956.

**10141 8-Hydroxygeraniol-1- β -D-glucopyranoside**

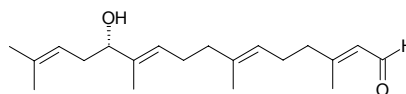
$C_{16}H_{28}O_7$ (332.40). **Source:** ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**10142 *cis*-(*S*)-12-Hydroxygeranylgeranial**

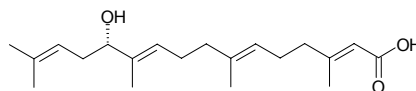
$C_{20}H_{32}O_2$ (304.48). Oil. **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 5146.

**10143 *trans*-(*S*)-12-Hydroxygeranylgeranial**

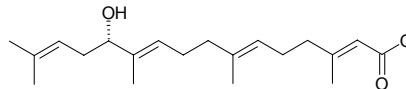
$C_{20}H_{32}O_2$ (304.48). Oil, $[\alpha]_D^{25} = -3^\circ$ ($c = 1.0$, CH_2Cl_2). **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 5146.

**10144 (*S*)-12-Hydroxygeranylgeranic acid**

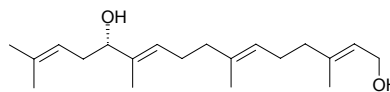
$C_{20}H_{32}O_3$ (320.48). **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 5146.

**10145 (*S*)-12-Hydroxygeranylgeranic acid methyl ester**

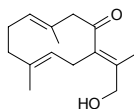
$C_{21}H_{34}O_3$ (334.50). Oil, $[\alpha]_D^{25} = -7.7^\circ$ ($c = 5.5$, CH_2Cl_2). **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 5146.

**10146 (*S*)-12-Hydroxygeranylgeraniol**

$C_{20}H_{34}O_2$ (306.49). **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 5146.

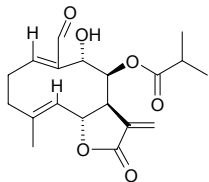
**10147 13-Hydroxygermacrone**

$C_{15}H_{22}O_2$ (234.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (50.7 \pm 1.9)%), control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 1521, 4150.

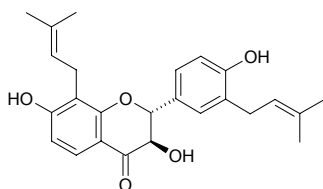


10148 9-Hydroxyglabratolide

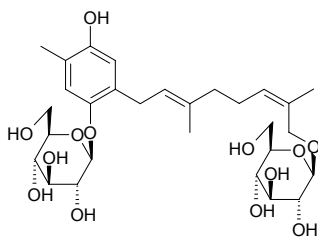
[75744-68-2] C₁₉H₂₄O₆ (348.40). Amorphous gum. **Pharm:** Antineoplastic (mus, P₃₈₈, *in vivo*); cytotoxic (hmn nasopharyngeal carcinoma cells, *in vitro*, ED₅₀ = 2.0 μg/mL). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 661.

**10149 3-Hydroxyglabrol**

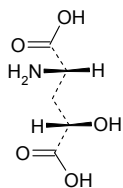
[74148-41-7] C₂₅H₂₈O₅ (408.50). White crystals (benzene–ethyl acetate), mp 117–119°C, [α]_D²⁰ = –17.65° (*c* = 1.02, chloroform). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC 13709, *Mycobacterium smegmatis* ATCC 607, MIC = 6.25 mg/mL for both). **Source:** GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, OU YA GAN CAO *Glycyrrhiza glabra* var. *typica*. **Ref:** 2, 661, 2431.

**10150 4-Hydroxy-2-[(2*E*,6*Z*)-8-β-*D*-glucopyranosyloxy-3,7-dimethyl-octa-2,6-dien-1-yl]-5-methylphenyl β-*D*-glucopyranoside**

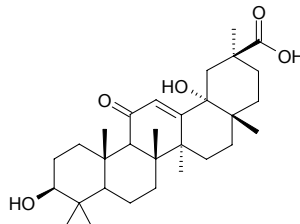
C₂₉H₄₄O₁₃ (600.67). mp 106–111°C, [α]_D³¹ = –29.4° (*c* = 0.1, MeOH). **Source:** RI BEN LU TI CAO *Pyrola japonica* (whole herb). **Ref:** 4294.

**10151 γ-Hydroxy glutamic acid**

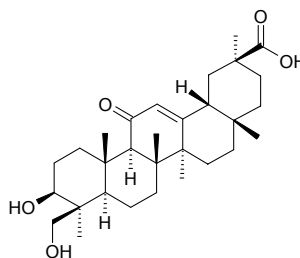
[3913-68-6] C₅H₉NO₅ (163.13). mp (L~) 183–185°C. **Source:** XUAN CAO GEN *Hemerocallis fulva*. **Ref:** 6.

**10152 18α-Hydroxy glycyrrhetic acid**

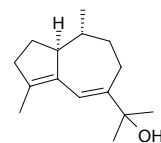
C₃₀H₄₆O₅ (486.70). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 660.

**10153 24-Hydroxyglycyrrhetic acid**

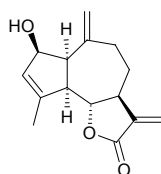
[20528-69-2] C₃₀H₄₆O₅ (486.70). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2, 660.

**10154 11-Hydroxyguaia-4,6-diene**

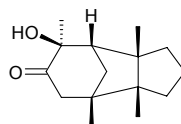
C₁₅H₂₄O (220.36). Colorless oil, [α]_D = –55° (*c* = 0.25). **Source:** *Letowianthus stellatus* (root cortex). **Ref:** 3944.

**10155 5α*H*-2β-Hydroxyguaia-3(4),10(14),11(13)-trien-6α,12-olide**

C₁₅H₁₈O₃ (246.31). **Pharm:** Cytotoxic (KB ATCC CCL17, IC₅₀ = 2.6 μg/mL). **Source:** *Warionia saharae*. **Ref:** 5399.

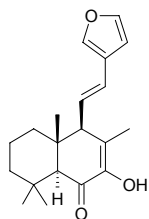
**10156 8β-Hydroxy gymnomitrian-9-one**

C₁₅H₂₄O₂ (236.36). **Source:** SHI DI QIAN *Reboulia hemisphaerica*. **Ref:** 660.

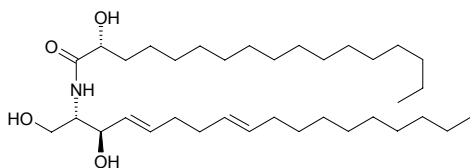


10157 7-Hydroxyhedychenone

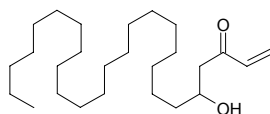
C₂₀H₂₆O₃ (314.43). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**10158 (2*S*,3*R*,4*E*,8*E*)-(2'*R*)-2'-Hydroxyheptadecanoylamino]-4,8-octadecadiene-1,3-diol**

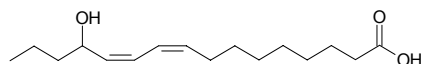
C₃₅H₆₇NO₄ (565.93). Colorless solid, mp 111~112°C, [α]_D²⁸ = -11.0° (c = 0.5, CHCl₃). Source: *Lobophytum* sp. Ref: 4432.

**10159 5-Hydroxy-hexacos-1-en-3-one**

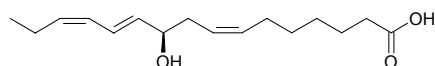
C₂₆H₅₀O₂ (394.69). White waxy solid. Pharm: Antibacterial (*Bacillus cereus*, MIC = 32μg/mL, control Chloramphenicol, MIC = 4μg/mL; *Escherichia coli*, MIC = 64μg/mL, Chloramphenicol, MIC = 2μg/mL; *Staphylococcus epidermidis*, MIC = 16μg/mL, Chloramphenicol, MIC = 4μg/mL); cytotoxic inactive (KB, L-6); antimalarial inactive (*Plasmodium falciparum* K1, *Plasmodium falciparum* NF54); antitrypanosomal inactive (*Trypanosoma brucei rhodesiense*, *Trypanosoma cruzi*); antifungal inactive (*Candida albicans*). Source: CI DOU KOU *Amomum aculeatum* (rhizome). Ref: 5176.

**10160 13-Hydroxy-9,11-hexadecadienoic acid**

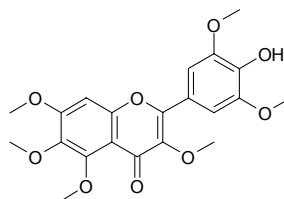
C₁₆H₂₈O₃ (268.40). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 2.

**10161 (10*R*)-Hydroxyhexadeca-7*Z*,11*E*,13*Z*-trienoic acid**

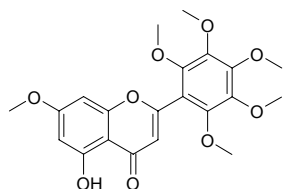
C₁₆H₂₆O₃ (266.38). Source: FU PING *Lemna minor*. Ref: 660.

**10162 4'-Hydroxy-3,5,6,7,3',5'-hexamethoxyflavone**

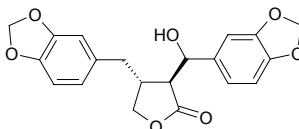
C₂₁H₂₂O₉ (418.40). Source: JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 660.

**10163 5-Hydroxy-7,2',3',4',5',6'-hexamethoxyflavone**

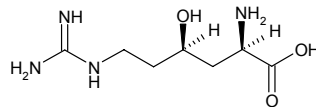
C₂₁H₂₂O₉ (418.40). Pale yellow rods, mp 176.0~176.4°C (EtOAc). Pharm: Anti-HIV-1 inactive. Source: TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). Ref: 4963.

**10164 7-Hydroxyhinokinin**

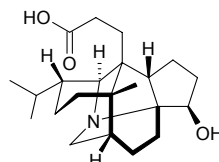
C₂₀H₁₈O₇ (370.36). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000021%dw). Ref: 4783.

**10165 (+)-γ-Hydroxy-L-homoarginine**

[1616-99-5] C₇H₁₆N₄O₃ (204.23). Pharm: Involves in many plant metabolism processes. Source: BING DOU *Lens culinaris*, WAN DOU *Pisum sativum*, *Lathyrus* sp., *Vicia* sp. Ref: 658.

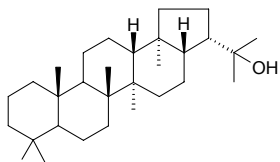
**10166 17-Hydroxyhomodaphniphylic acid**

C₂₂H₃₃NO₃ (361.53). Microcrystals (MeOH), mp 97~99°C, [α]_D = -17° (c = 0.2, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.00013%). Ref: 4754.

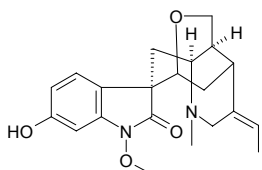


10167 Hydroxyhopane

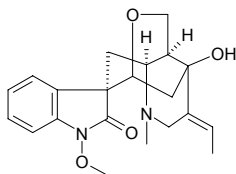
Diplopterol [1721-59-1] C₃₀H₅₂O (428.75). mp 254–256°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6.

**10168 11-Hydroxyhumantenine**

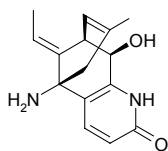
C₂₁H₂₆N₂O₄ (370.45). mp 176–177°C, [α]_D = –130°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**10169 15-Hydroxyhumantenine**

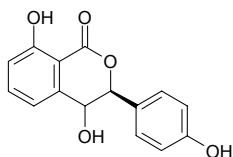
C₂₁H₂₆N₂O₄ (370.45). mp 213–215°C, [α]_D = –82.2°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**10170 6β-Hydroxyhuperzine A**

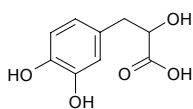
C₁₅H₁₈N₂O₂ (258.32). Source: XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. Ref: 660.

**10171 4-Hydroxyhydrangenol**

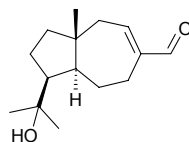
C₁₅H₁₂O₅ (272.26). Source: CHANG SHAN *Dichroa febrifuga*. Ref: 660.

**10172 α-Hydroxyhydrocaffeic acid**

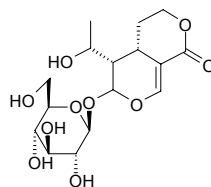
C₉H₁₀O₅ (198.18). Source: MI DIE XIANG *Rosmarinus officinalis*. Ref: 6.

**10173 11-Hydroxy-12-hydroisodaucenal**

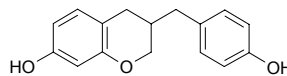
C₁₅H₂₄O₂ (236.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**10174 8-Hydroxy-10-hydrosweroside**

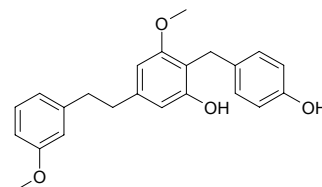
C₁₆H₂₄O₁₀ (376.36). Source: XI ZANG QIN JIAO *Gentiana tibetica*. Ref: 702.

**10175 7-Hydroxy-3-(4-hydroxybenzyl)chromane**

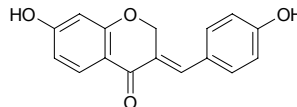
C₁₆H₁₆O₃ (256.30). Source: LONG XUE SHU *Dracaena draco* (stem cortex). Ref: 4696.

**10176 5-Hydroxy-4-(p-hydroxybenzyl)-3',3'-dimethoxybibenzyl**

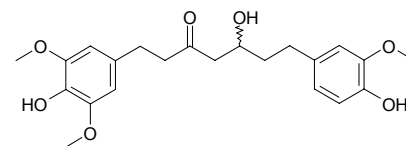
C₂₃H₂₄O₄ (364.45). White powder, soluble in methanol, mp 173–174°C. Source: BAI JI *Bletilla striata*. Ref: 2223.

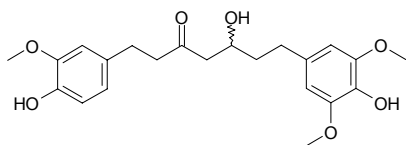
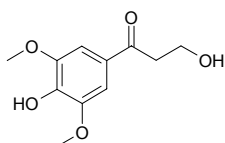
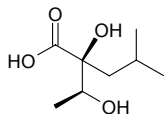
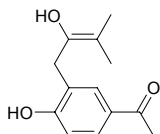
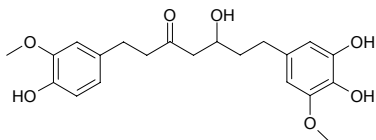
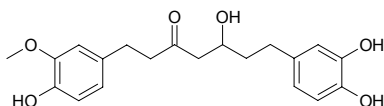
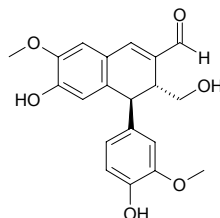
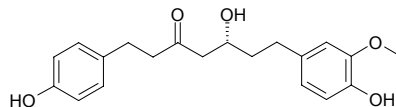
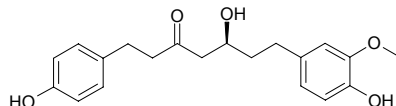
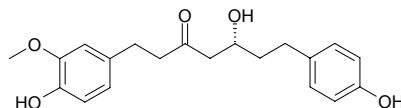
**10177 7-Hydroxy-3-(4'-hydroxybenzylidene)-chroman-4-one**

C₁₆H₁₂O₄ (268.27). Source: SU MU *Caesalpinia sappan*. Ref: 660.

**10178 5ξ-Hydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)-3-heptanone**

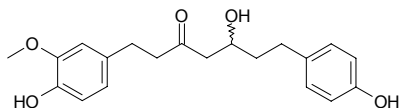
C₂₂H₂₈O₇ (404.46). Source: GAN JIANG *Zingiber officinale*. Ref: 660.



10179 5 ζ -Hydroxy-7-(4-hydroxy-3,5-dimethoxyphenyl)-1-(4-hydroxy-3-methoxyphenyl)-3-heptanoneC₂₂H₂₈O₇ (404.46). Source: GAN JIANG *Zingiber officinale*. Ref: 660.**10180 3-Hydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-1-propanone**C₁₁H₁₄O₅ (226.23). Source: TIAN XIAN GUO *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (root: yield = 0.0086%dw). Ref: 4657.**10181 erythro-2-Hydroxy-2-(1-hydroxyethyl)-4-methylpentanoic acid**C₈H₁₆O₄ (176.21). White oil, [α]_D²⁵ = -2.0° (c = 0.1, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.**10182 4-Hydroxy-3-(2-hydroxy-3-isopentenyl)acetophenone**C₁₃H₁₆O₃ (220.27). Pharm: Anti-inflammatory (inhibits arachidonic acid metabolism, calcium ionophore-stimulated leukocytes, inhibits LTB₄ production, concentration-dependent manner, IC₅₀ = 111 μmol/L). Source: YI DA LI LA JU *Helichrysum italicum* Ref: 4415.**10183 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxy-5-methoxyphenyl)heptan-3-one**C₂₁H₂₆O₇ (390.44). Colorless oil. Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.**10184 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxyphenyl)heptan-3-one**C₂₀H₂₄O₆ (360.41). Colorless needles, mp 163~164°C, [α]_D¹⁶ = 0 (c = 0.74, EtOH). Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.**10185 6-Hydroxy-4-(4-hydroxy-3-methoxyphenyl)-3-hydroxymethyl-7-methoxy-3,4-dihydro-2-naphthaldehyde**C₂₀H₂₀O₆ (356.38). Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control L-Cysteine). Source: HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.022%). Ref: 4791.**10186 5R-Hydroxy-7-(4-hydroxy-3-methoxyphenyl)-1-(4-hydroxyphenyl)-3-heptanone**C₂₀H₂₄O₅ (344.41). Pale yellow liquid, [α]_D²⁵ = +1.05° (c = 0.80, EtOH); [α]_D²⁶ = +1.3° (c = 0.06, EtOH). Pharm: Antiemetic (young male chicks, copper sulfate induced emesis assay, 50mg/kg, lnRt = 38.3%, p < 0.001)^[4649]. Source: GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.0022%dw)^[4649], HUANG QI II *Engelhardia roxburghiana* (root). Ref: 4649, 5059.**10187 5S-Hydroxy-7-(4-hydroxy-3-methoxyphenyl)-1-(4-hydroxyphenyl)-3-heptanone**C₂₀H₂₄O₅ (344.41). Yellow oil, [α]_D²⁵ = -2.52° (c = 0.09, MeOH). Pharm: Cytotoxic inactive (MTT assay, HT29 cell line, MCF7 cell line)^[4321]. Source: HU TAO QIU *Juglans mandshurica* (root). Ref: 4321.**10188 5R-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-3-heptanone**C₂₀H₂₄O₅ (344.41). Pharm: Antiemetic inactive (young male chicks, copper sulfate induced emesis assay, 50mg/kg, lnRt = 12.4%)^[4649]. Source: GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.00068%dw). Ref: 4649.

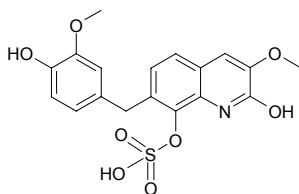
10189 5 ξ -Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-3-heptanone

C₂₀H₂₄O₅ (344.41). Source: GAN JIANG *Zingiber officinale*. Ref: 660.



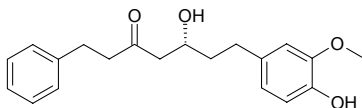
10190 2-Hydroxy-7-[(4-hydroxy-3-methoxyphenyl)methyl]-3-methoxy-8-quinolyl sulfate

C₁₈H₁₇NO₈S (407.40). Yellow powder, mp 192–194°C. Source: WU GONG *Scelopendra subspinipes mutilans* (whole body). Ref: 4104.



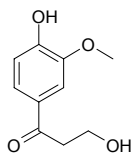
10191 5-Hydroxy-7-(4''-hydroxy-3''-methoxy-phenyl)-1-phenyl-3-heptanone

C₂₀H₂₄O₄ (328.41). Colorless oleaginous liquid, [α]_D²⁰ = -13.9° (*c* = 1.15, CHCl₃); yellow oil, [α]_D²⁰ = +6° (*c* = 1.0, MeOH). Pharm: 5 α -Reductase inhibitor (rat prostate 5 α -Reductase, IC₅₀ = (220±40)μmol/L, control Curcumin, IC₅₀ > 1000μmol/L, Finasteride, IC₅₀ = 0.01μmol/L)^[5345]. Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 435, 5345.



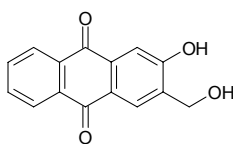
10192 3-Hydroxy-1-(4'-hydroxy-3'-methoxyphenyl) propan-1-one

C₁₀H₁₂O₄ (196.20). Source: *Eurycoma* sp. Ref: 4556.



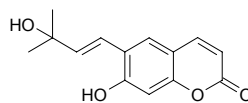
10193 2-Hydroxy-3-hydroxymethyl anthraquinone

C₁₅H₁₀O₄ (254.24). Source: BA JI TIAN *Morinda officinalis*. Ref: 660.



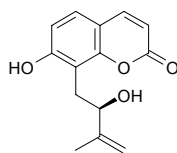
10194 (E)-7-Hydroxy-6-(3-hydroxy-methyl-1-butenyl)-2H-1-benzopyran-2-one

C₁₄H₁₄O₄ (246.27). mp 156–160°C. Source: RI BEN BAI SONG FENG CAO *Boenninghausenia albiflora* var. *japonica*, YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.



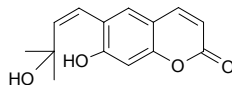
10195 (R)-(+)-7-Hydroxy-8-(2-hydroxy-3-methyl-3-butenyl)-2H-1-benzopyran-2-one

C₁₄H₁₄O₄ (246.27). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf; yield = 0.00015%dw). Ref: 4722.



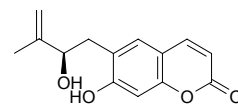
10196 (Z)-7-Hydroxy-6-(3-hydroxy-methyl-1-butenyl)-2H-1-benzopyran-2-one

C₁₄H₁₄O₄ (246.27). mp 139.0–140.5°C. Source: RI BEN BAI SONG FENG CAO *Boenninghausenia albiflora* var. *japonica*, YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.



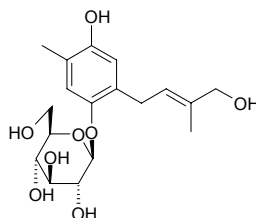
10197 7-Hydroxy-6-(2-(R)-hydroxy-3-methylbut-3-enyl)coumarin

C₁₄H₁₄O₄ (246.27). Pharm: AChE inhibitor (*in vitro*, IC₅₀ = 130μmol/L)^[3058]. Source: CHAO XIAN DANG GUI *Angelica gigas* (underground part). Ref: 3058.



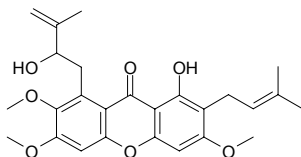
10198 4-Hydroxy-2-[(E)-4-hydroxy-3-methyl-2-butenyl]-5-methyl-phenyl β-D- glucopyranoside

C₁₈H₂₆O₈ (370.40). mp 121–123°C, [α]_D¹⁹ = -27.2° (*c* = 0.13, MeOH). Source: RI BEN LU TI CAO *Pyrola japonica* (whole herb). Ref: 4294.



10199 1-Hydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-3,6,7-trimethoxy-2-(3-methylbut-2-enyl)-xanthone

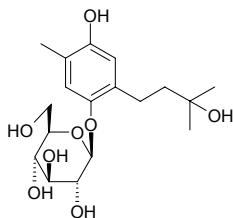
$C_{26}H_{30}O_7$ (454.52). Pale yellow gum. $[\alpha]_D^{25} = +26$ ($c = 0.2$, $CHCl_3$). Source: DAO NIAN ZI *Garcinia mangostana*. Ref: 1964.



10200 4-Hydroxy-2-[3-hydroxy-3-methylbutyl]-5-methylphenyl

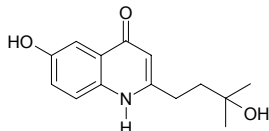
***β*-D-glucopyranoside**

$C_{18}H_{28}O_8$ (372.42). mp 100~105°C, $[\alpha]_D^{25} = -36.4^\circ$ ($c = 0.1$, MeOH). Source: RI BEN LU TI CAO *Pyrola japonica* (whole herb). Ref: 4294.



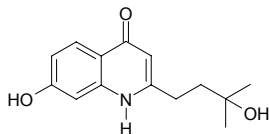
10201 6-Hydroxy-2-(3-hydroxy-3-methylbutyl)-4-quinolone

$C_{14}H_{17}NO_3$ (247.30). Yellow powder. Source: *Spathelia excelsa* (leaf). Ref: 5297.



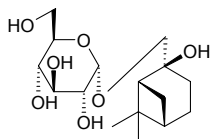
10202 7-Hydroxy-2-(3-hydroxy-3-methylbutyl)-4-quinolone

$C_{14}H_{17}NO_3$ (247.30). Yellow powder. Source: *Spathelia excelsa* (leaf). Ref: 5297.



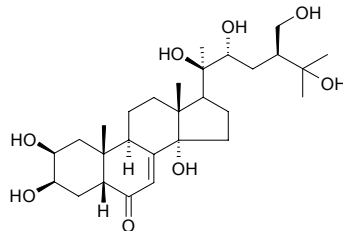
10203 2β-Hydroxy-2α-hydroxymethyl-6,6-dimethyl bicyclo[3.1.1]heptane-2α-O-glucoside

$C_{16}H_{28}O_7$ (332.40). Source: YI ZHU QIAN MA *Urtica dioica*. Ref: 660.



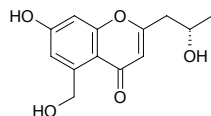
10204 20-Hydroxy 24-hydroxymethyl ecdysone

$C_{28}H_{46}O_8$ (510.67). Faint yellow amorphous solid. Source: DUO CI HUANG HUA REN *Sida spinosa*. Ref: 2043.



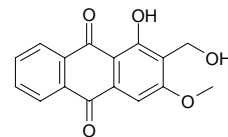
10205 (2'S)-7-Hydroxy-5-hydroxymethyl-2-(2'-hydroxypropyl) chromone

$C_{13}H_{14}O_5$ (250.25). mp 208~210°C, $[\alpha]_D^{28} = +38.4^\circ$ ($c = 0.8$, MeOH). Source: PO LUO MEN ZAO JIA *Cassia fistula* (seed; yield = 0.00026%). Ref: 4642.



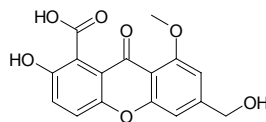
10206 1-Hydroxy-2-hydroxymethyl-3-methoxyanthraquinone

$C_{16}H_{12}O_5$ (284.27). Pharm: Cytotoxic (KB, $ED_{50} > 25\mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.12\mu\text{g/mL}$; Hep3B, $ED_{50} = 0.60\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.14\mu\text{g/mL}$; Colon205, $ED_{50} = 0.58\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.10\mu\text{g/mL}$; HeLa, $ED_{50} = 9.15\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.11\mu\text{g/mL}$). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.



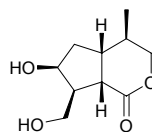
10207 2-Hydroxy-6-hydroxymethyl-8-methoxy-9-oxo-9H-xanthen-1-carboxylic acid

$C_{16}H_{12}O_7$ (316.27). Stable pale yellow amorphous solid Pharm: Cytotoxic inactive (brine shrimp *Artemia salina* lethality assay, $20\mu\text{g/mL}$ or $200\mu\text{g/mL}$). Source: *Xylaria* sp. Ref: 3845.



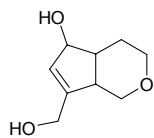
10208 (4R,5R,7S,8S,9S)-7-Hydroxy-8-hydroxymethyl-4-methyl-perhydrocyclopenta[c]pyran-1-one

$C_{10}H_{16}O_4$ (200.24). Pharm: Antitubercular (*Mycobacterium tuberculosis*, MIC $> 128\mu\text{g/mL}$, cytotoxic, Vero cells, $IC_{50} > 102\mu\text{g/mL}$, positive control Rifampin, MIC = $0.03\mu\text{g/mL}$, $IC_{50} = 98.3\mu\text{g/mL}$, SI = 3300). Source: SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). Ref: 4986.

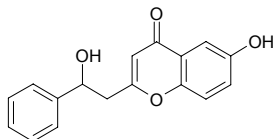


10209 7-Hydroxy-9-hydroxymethy-3-oxo-bicyclo[4.3.0]-8-nonene

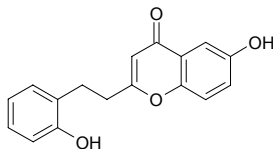
C₉H₁₄O₃ (170.21). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 660.

**10210 6-Hydroxy-2-(2-hydroxy-2-phenylethyl)chromone**

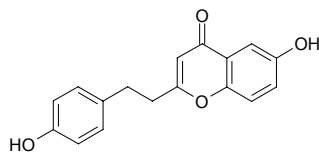
C₁₇H₁₄O₄ (282.30). White powder, mp 96–98°C, [α]_D²⁵ = -3.0° (c = 0.66, MeOH). Source: BAI MU XIANG *Aquilaria sinensis* (Withered wood). Ref: 4339.

**10211 6-Hydroxy-2-[2-(2-hydroxyphenyl) ethyl]chromone**

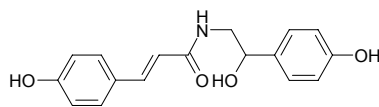
C₁₇H₁₄O₄ (282.30). Colorless needles, mp 185–186°C (MeOH). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 4173.

**10212 6-Hydroxy-2-[2-(4-hydroxyphenyl) ethyl]chromone**

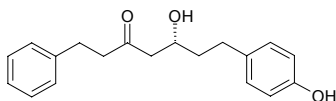
C₁₇H₁₄O₄ (282.30). Colorless needles, mp 215–218°C (MeOH). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 4173.

**10213 N-[β-Hydroxy-β-(4-hydroxyphenyl)]ethyl-4-hydroxy cinnamide**

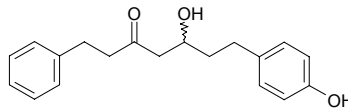
C₁₇H₁₇NO₄ (299.33). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

**10214 5R-Hydroxy-7-(4''-hydroxyphenyl)-1-phenyl-3-heptanone**

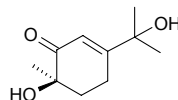
C₁₉H₂₂O₃ (298.39). Yellow oil, [α]_D²⁰ = -13° (c = 1.0, CHCl₃). Pharm: 5 α -Reductase inhibitor (rat prostate 5 α -Reductase, IC₅₀ = (220±60)μmol/L, control Curcumin, IC₅₀ > 1000μmol/L, Finasteride, IC₅₀ = 0.01μmol/L)^[5345]. Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 5345.

**10215 5-Hydroxy-7-(4''-hydroxyphenyl)-1-phenyl-3-heptanone**

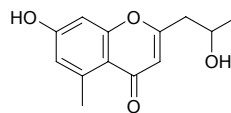
C₁₉H₂₂O₃ (298.39). Pharm: Antiemetic (young male chicks, copper sulfate induced emesis assay, 20mg/kg, InRt = 71.0%, p < 0.001)^[4649]. Source: GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.041%dw^[4649]). Ref: 660, 4649.

**10216 (R)-6-Hydroxy-3-hydroxypropan-2-yl)-6-methylcyclohex-2-enone**

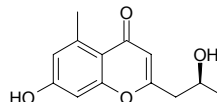
C₁₀H₁₆O₃ (184.24). White solid. Source: TIAN SHAN LING ZI QIN *Pleurospermum lindleyanum* (whole herb). Ref: 4558.

**10217 7-Hydroxy-2-(2-hydroxy)propyl-5-methyl-benzopyran-γ-one**

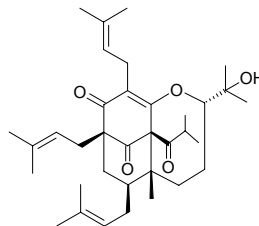
C₁₃H₁₄O₄ (234.25). Source: DA HUANG *Rheum officinale*. Ref: 2.

**10218 (2'S)-7-Hydroxy-2-(2'-hydroxypropyl)-5-methylchromone**

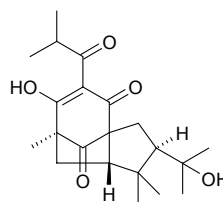
C₁₃H₁₄O₄ (234.25). Source: PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00029%). Ref: 4642.

**10219 8-Hydroxyhyperforin-8,1-hemiacetal**

[262857-89-6] C₃₅H₅₂O₅ (552.80). Viscous oil, [α]_D²⁰ = +34° (c = 1, CHCl₃). Source: GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts: yield = 0.0012%dw). Ref: 1521, 3032.

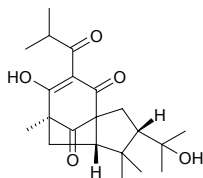
**10220 1'-Hydroxyialibinone A**

C₂₁H₃₀O₅ (362.47). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst)^[5371]. Source: *Hypericum papuanum* Ref: 5371.

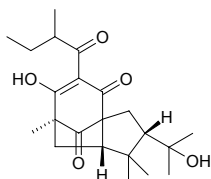


10221 1'-Hydroxyialbinone B

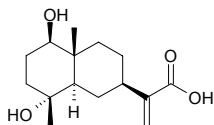
$C_{21}H_{30}O_5$ (362.47). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum papuanum* **Ref:** 5371.

**10222 1'-Hydroxyialbinone D**

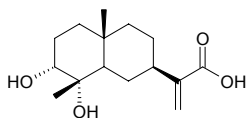
$C_{22}H_{32}O_5$ (376.50). **Pharm:** Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). **Source:** *Hypericum papuanum* **Ref:** 5371.

**10223 1β-Hydroxyilicic acid**

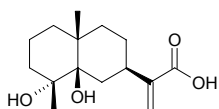
$C_{15}H_{24}O_4$ (268.36). **Source:** LIU LENG JU *Laggetera alata* (aerial parts: yield = 0.0006%dw). **Ref:** 4709.

**10224 3α-Hydroxyilicic acid**

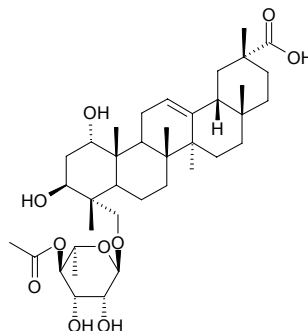
$C_{15}H_{24}O_4$ (268.36). Colorless needles, mp 177~178°C, $[\alpha]_D^{20} = -48^\circ$ ($c = 0.3$, $CHCl_3$). **Source:** LIU LENG JU *Laggetera alata* (aerial parts: yield = 0.00117%dw). **Ref:** 4709.

**10225 5β-Hydroxyilicic acid**

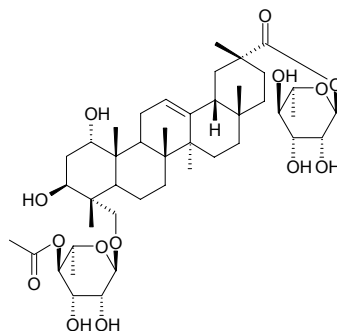
$C_{15}H_{24}O_4$ (268.36). Colorless needles (Me_2CO), mp 160~161.5°C, $[\alpha]_D^{20} = +5.39^\circ$ ($c = 0.8$, MeOH). **Source:** LIU LENG JU *Laggetera alata* (aerial parts: yield = 0.0011%dw). **Ref:** 4709.

**10226 1α,3β-Hydroxyimberbic acid-23-O-α-L-4-acetyl-rhamnopyranoside**

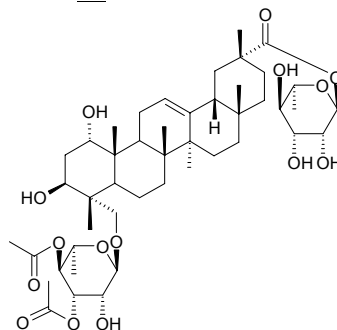
1α,3β,23-Trihydroxy-olean-12-en-29-oate-23-O-α-L-4-acetyl-rhamnopyranoside $C_{38}H_{60}O_{10}$ (676.90). White amorphous solid, mp 198°C, $[\alpha]_D^{21} = +41.8^\circ$ ($c = 0.311$, MeOH). **Source:** A KA XI A LAN REN *Terminalia stuhlmannii*. **Ref:** 2068.

**10227 1α,3β-Hydroxyimberbic acid-23-O-α-[L-4-acetyl-rhamnopyranosyl]-29-O-α-rhamnopyranoside**

1α,3β,23-Trihydroxy-olean-12-en-29-oate-23-O-α-L-4-acetyl-29-dirhamnopyranoside $C_{44}H_{70}O_{14}$ (823.04). Peach amorphous solid, mp 196°C, $[\alpha]_D^{22} = +15.0^\circ$ ($c = 0.133$, MeOH). **Source:** WU MAO FENG CHE ZI *Combretum imberbe*. **Ref:** 2068.

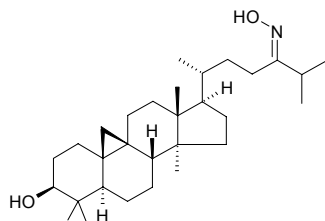
**10228 1α,3β-Hydroxyimberbic acid-23-α-L-[3,4-diacetyl-rhamnopyranosyl]-29-O-α-rhamnopyranoside**

1α,3β,23-Trihydroxy-olean-12-en-29-oate-23-O-α-L-3,4-diacetyl-29-dirhamnopyranoside $C_{46}H_{72}O_{15}$ (865.08). Yellow amorphous solid, mp 178°C, $[\alpha]_D^{22} = +16.2^\circ$ ($c = 0.401$, MeOH). **Source:** WU MAO FENG CHE ZI *Combretum imberbe*. **Ref:** 2068.

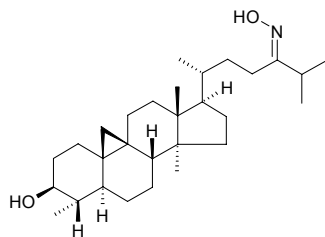


10229 24-Hydroxyiminocycloart-3-ol

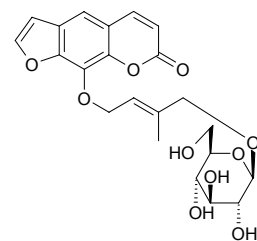
$C_{30}H_{51}NO_2$ (457.75). Amorphous powder. **Pharm:** Cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 9.5\mu\text{g/mL}$, LLC cell line, $ED_{50} = 7.4\mu\text{g/mL}$). **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**10230 24-Hydroxyimino-29-norcycloart-3-ol**

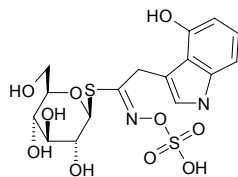
$C_{29}H_{49}NO_2$ (443.72). Amorphous powder, $[\alpha]_D^{24} = +35.4^\circ$ ($c = 0.35$, $CHCl_3$). **Pharm:** Cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 5.5\mu\text{g/mL}$, LLC cell line, $ED_{50} = 6.4\mu\text{g/mL}$). **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**10231 4''-Hydroxyimperatorin 4''-O-β-D-glucopyranoside**

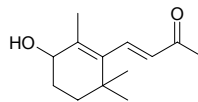
$C_{22}H_{24}O_{10}$ (448.43). **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} > 50\mu\text{g/mL}$, $50\mu\text{g/mL}$ InRt = 42%, control Ascorbic acid, $EC_{50} = 1.6\mu\text{g/mL} = 9.1\mu\text{mol/L}$). **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 4154.

**10232 4-Hydroxy-3-indolyl methyl glucosinolate**

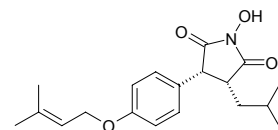
$C_{16}H_{20}N_2O_{10}S_2$ (464.47). **Source:** JIE ZI *Brassica juncea*. **Ref:** 660.

**10233 3-Hydroxy-β-ionone**

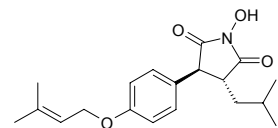
$C_{13}H_{20}O_2$ (208.30). **Source:** GOU QI ZI *Lycium chinense*. **Ref:** 660.

**10234 3R*,4R*-1-Hydroxy-3-isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]pyrrolidine-2,5-dione**

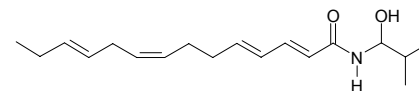
$C_{19}H_{25}NO_4$ (331.42). Colorless oil, $[\alpha]_D^{23} = +3.0^\circ$ ($c = 0.2$, MeOH). **Source:** *Antrodia camphorata* (fruit). **Ref:** 3003.

**10235 3R*,4S*-1-Hydroxy-3-isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]pyrrolidine-2,5-dione**

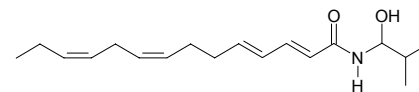
$C_{19}H_{25}NO_4$ (331.42). Colorless oil, $[\alpha]_D^{23} = +2.5^\circ$ ($c = 0.2$, MeOH). **Pharm:** Cytotoxic (*in vitro*, LLC cell line, $ED_{50} > 10\mu\text{g/mL}$; control Adriamycin, $ED_{50} = 0.14\mu\text{g/mL}$). **Source:** *Antrodia camphorata* (fruit). **Ref:** 3003.

**10236 (2E,4E,8Z,11E)-2'-Hydroxy-N-isobutyl-2,4,8,11-tetradecatetra-enamide**

$C_{18}H_{29}NO_2$ (291.44). **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifolium*. **Ref:** 2176.

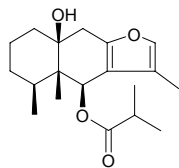
**10237 (2E,4E,8Z,11Z)-2'-Hydroxy-N-isobutyl-2,4,8,11-tetradecatetra-enamide**

$C_{18}H_{29}NO_2$ (291.44). **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifolium*. **Ref:** 2176.

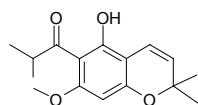


10238 10 β -Hydroxy-6 β -isobutyryl furanoeremophilane

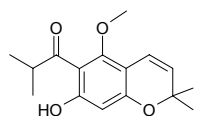
C₁₉H₂₈O₄ (320.43). **Pharm:** Toxin (mus, ip, LD₅₀ = 400mg/kg); hepatotoxin.
Source: GUANG SI SHI JU *Tetradymia glabrata*. **Ref:** 658.

**10239 5-Hydroxy-6-isobutyryl-7-methoxy-2,2-dimethylbenzopyran**

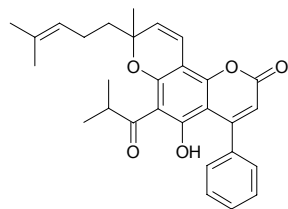
C₁₆H₂₀O₄ (276.34). Viscous oil. **Source:** *Hypericum polyanthemum* (aerial parts). **Ref:** 5168.

**10240 7-Hydroxy-6-isobutyryl-5-methoxy-2,2-dimethylbenzopyran**

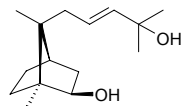
C₁₆H₂₀O₄ (276.34). Viscous oil. **Source:** *Hypericum polyanthemum* (aerial parts). **Ref:** 5168.

**10241 5-Hydroxy-6-isobutyryl-8-methyl-8-(4-methylpent-3-enyl)-4-phenyl-2H-pyrano[2,3-*h*]chromen-2-one**

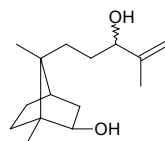
C₂₉H₃₀O₅ (458.56). Yellow gum. **Source:** TIE LI MU *Mesua ferrea* (blossom). **Ref:** 3870.

**10242 11-Hydroxy-isocampheren-9-ene**

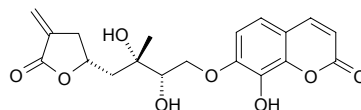
C₁₅H₂₆O₂ (238.37). Oil, [α]_D = +18.4° (*c* = 0.46, CHCl₃). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

**10243 10ξ-Hydroxy-isocampheren-11-ene**

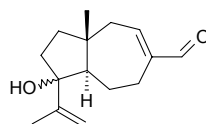
11-Campherene-4,10-diol C₁₅H₂₆O₂ (238.37). Oil, [α]_D = -11.6° (*c* = 0.1, CHCl₃). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

**10244 8-Hydroxyisocapnolactone-2',3'-diol**

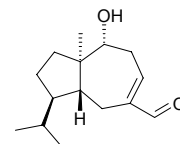
C₁₉H₂₀O₈ (376.37). White needles, mp 72~73°C. **Source:** JI XIAO XIAO YUN XIANG MU *Micromelum minutum* (leaf). **Ref:** 3467.

**10245 Hydroxyisodaucenal**

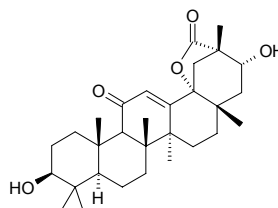
C₁₅H₂₂O₂ (234.34). **Source:** MEI GUI HUA *Rosa rugosa*. **Ref:** 660.

**10246 1 α -Hydroxyisodauc-4-en-15-al**

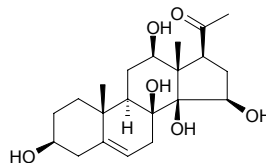
C₁₅H₂₄O₂ (236.36). **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). **Ref:** 4338.

**10247 21 α -Hydroxyisoglabrolide**

C₃₀H₄₄O₅ (484.68). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2, 660.

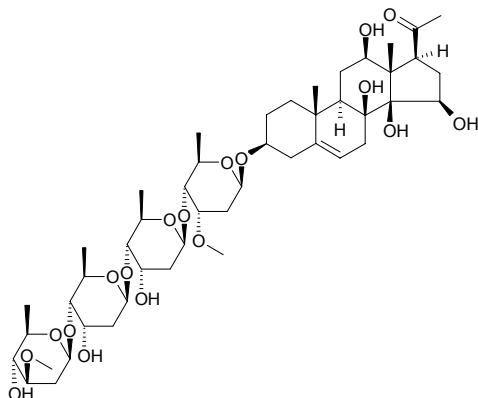
**10248 15 β -Hydroxyisolineolon**

15 β -Hydroxyisolineolon C₂₁H₃₂O₆ (380.49). Amorphous powder, [α]_D²¹ = +55.9° (*c* = 0.47, MeOH). **Source:** ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). **Ref:** 3925.



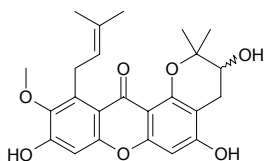
10249 15- β -Hydroxyisolinecolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₄₇H₇₆O₁₈ (929.12). Amorphous powder, $[\alpha]_D^{27} = +25.4^\circ$ ($c = 0.40$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



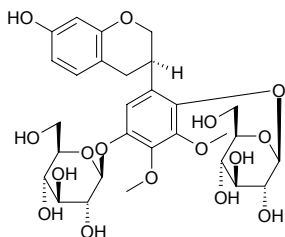
10250 11-Hydroxy-1-isomangostin

C₂₄H₂₆O₇ (426.47). Pharm: Cytotoxic (KB cancer cell lines, IC₅₀ = 13.14 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 18.53 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, inactive). Source: DAO NIAN ZI *Garcinia mangostana* (young fruit; yield = 0.080%dw). Ref: 1619.



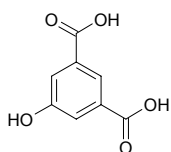
10251 5'-Hydroxy-isomucronulatol-2',5'-di-O-glucoside

C₂₉H₃₈O₁₆ (642.62). Source: MENG GU HUANG QI *Astragalus mongholicus*. Ref: 660.



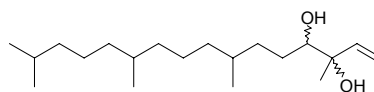
10252 5-Hydroxyisophthalic acid

5-Hydroxy-1,3-benzenedicarboxylic acid [618-83-7] C₈H₆O₅ (182.13). mp 284–285°C. Source: HUANG JING YE *Vitex negundo*. Ref: 6.



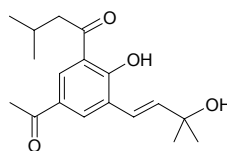
10253 (4R)-4-Hydroxyisophytol

C₂₀H₄₀O₂ (312.54). Source: FU PING *Lemma minor*. Ref: 660.



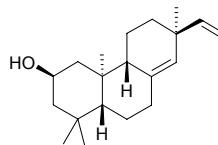
10254 Hydroxyisopiloselloidone

[54963-60-9] C₁₈H₂₄O₄ (304.39). mp 97°C. Source: MAO DA DING CAO *Gerbera piloselloides*. Ref: 6.



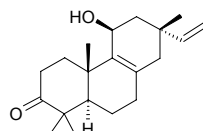
10255 (2R)-ent-2-Hydroxyisopimara-8(14),15-diene

C₂₀H₃₂O (288.48). Crystals, mp 104–105°C, $[\alpha]_D = -9.6^\circ$ ($c = 0.81$). Source: JI RUAN RONG TAI *Trichoclea mollissima*. Ref: 3489.



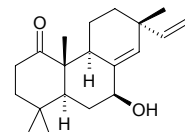
10256 11 β -Hydroxy-8,15-isopimaradiene-3-one

C₂₀H₃₀O₂ (302.46). Resinous substance, $[\alpha]_D^{22} = +22.8^\circ$ ($c = 0.34$, CHCl₃). Source: XIA JI XIAN WEN XIANG CHA CAI *Isodon lophanthoides* var. *gerardiana*. Ref: 4067.



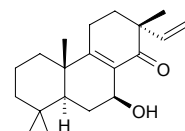
10257 7 β -Hydroxyisopimara-8(14),15-dien-1-one

C₂₀H₃₀O₂ (302.46). Amorphous powder, $[\alpha]_D = -3.1^\circ$ ($c = 0.7$, CHCl₃). Pharm: Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA=0.5 μ g, yeast *Candida albicans*, MA=0.5 μ g). Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 3438.



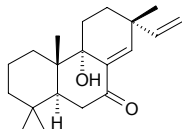
10258 7 β -Hydroxyisopimara-8,15-dien-14-one

C₂₀H₃₀O₂ (302.46). Amorphous powder, $[\alpha]_D = +55.5^\circ$ ($c = 0.8$, CHCl₃). Pharm: Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA=1 μ g, yeast *Candida albicans*, MA=1 μ g); AChE inhibitor (TLC bioautographic assay, MA=0.5 μ g). Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 3438.

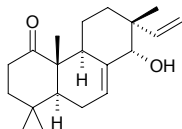


10259 9 α -Hydroxyisopimara-8(14),15-dien-7-one

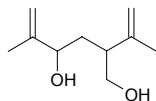
C₂₀H₃₀O₂ (302.46). Amorphous solid, [α]_D²³ = -30.0° (c = 0.6, CHCl₃). [Source](#): TAI WAN SHAN *Taiwania cryptomerioides* (bark). [Ref](#): 4443.

**10260 14 α -Hydroxyisopimara-7,15-dien-1-one**

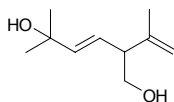
C₂₀H₃₀O₂ (302.46). Amorphous powder, [α]_D = +18.0° (c = 0.9, CHCl₃). [Pharm](#): Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA = 0.5 μ g, yeast *Candida albicans*, MA = 0.5 μ g); AChE inhibitor (TLC bioautographic assay, MA = 0.2 μ g). [Source](#): PU FU QIANG DAO YAO *Hypoestes serpens*. [Ref](#): 3438.

**10261 4-Hydroxy-2-isopropenyl-5-methylene-hexan-1-ol**

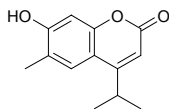
C₁₀H₁₈O₂ (170.25). Colorless oil, [α]_D = -9.3° (c = 0.3, CHCl₃). [Source](#): HUANG HUA HAO *Artemisia annua* (seed). [Ref](#): 3435.

**10262 trans-5-Hydroxy-2-isopropenyl-5-methylhex-3-en-1-ol**

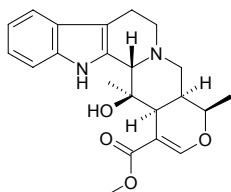
C₁₀H₁₈O₂ (170.25). Oil. [Source](#): HUANG HUA HAO *Artemisia annua* (aerial parts). [Ref](#): 5224.

**10263 7-Hydroxy-4-isopropyl-6-methyl coumarin**

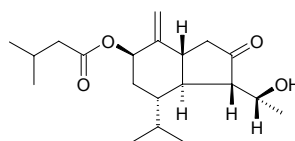
C₁₃H₁₄O₃ (218.25). [Source](#): JIN JI WEI BA CAO GEN *Macrothelypteris oligophlebia*. [Ref](#): 660.

**10264 14- β -Hydroxy-3-isoraunicine**

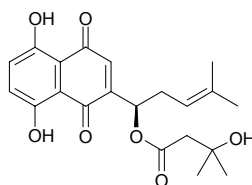
C₂₂H₂₆N₂O₄ (382.46). [Source](#): TUO YUAN GOU TENG *Uncaria elliptica*. [Ref](#): 5341.

**10265 14(R)-Hydroxy-7 β -isovaleryloxyoplop-8(10)-en-2-one**

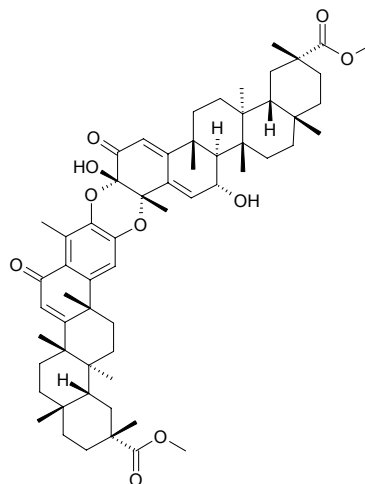
C₂₀H₃₂O₄ (336.48). Colorless oil, [α]_D¹⁹ = -57.6° (c = 0.2, CHCl₃). [Source](#): KUAN DONG HUA *Tussilago farfara* (flower bud). [Ref](#): 3531.

**10266 β -Hydroxyisovalerylshikonin**

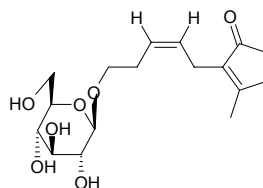
C₂₁H₂₄O₇ (388.42). [Source](#): DIAN ZI CAO *Onosma paniculatum* (root: content = 0.009%^[5508]), JIA ZI CAO *Arnebia guttata* (root: content = 0.042%^[5508]), XIN ZANG JIA ZI CAO *Arnebia euchroma* (root: mean content of 3 origins = 0.158%^[5508]), ZI CAO *Lithospermum erythrorhizon* (root: content = 0.131%^[5508]). [Ref](#): 2, 660, 5508.

**10267 7 α -Hydroxyisoxuxuarine Ea**

C₆₀H₈₀O₁₀ (961.30). Yellow amorphous solid. [Source](#): QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). [Ref](#): 4295.

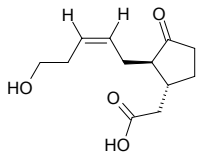
**10268 (Z)-5'-Hydroxyjasmane 5'-O- β -D-glucopyranoside**

C₁₇H₂₆O₇ (342.39). Amorphous powder, [α]_D²² = -24°. [Source](#): SHE XIANG CAO *Thymus vulgaris*. [Ref](#): 2592.

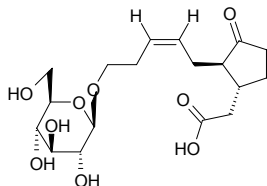


10269 (1R,2R)-5'-Hydroxyjasmonic acid

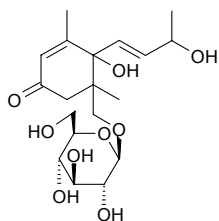
$C_{12}H_{18}O_4$ (226.27). Amorphous powder, $[\alpha]_D^{24} = -67^\circ$. Source: SHE XIANG CAO *Thymus vulgaris*, fungus *Botryodiplodia theobromae*. Ref: 2592.

**10270 (1R,2R)-5'-Hydroxyjasmonic acid 5'-O-β-D-glucopyranoside**

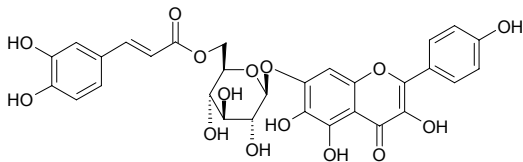
$C_{18}H_{28}O_9$ (388.42). Amorphous powder, $[\alpha]_D^{24} = -72^\circ$. Source: SHE XIANG CAO *Thymus vulgaris*, BAI SU YE *Perilla frutescens*. Ref: 2592.

**10271 6-Hydroxy-junipeinolside**

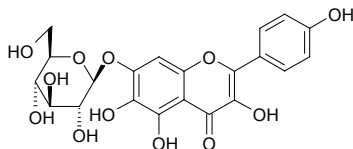
$C_{19}H_{30}O_9$ (402.45). Source: SHAN YANG DOU *Galega officinalis*, FEI NI JI CI BAI *Juniperus phoenicea*. Ref: 1867.

**10272 6-Hydroxykaempferol-7-O-(6-O-caffeoyl-β-D-glucopyranoside)**

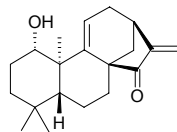
$C_{30}H_{26}O_{15}$ (626.53). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = (5.27 \pm 0.12) \mu\text{mol/L}$, control Quercetin, $IC_{50} = (6.11 \pm 0.53) \mu\text{g/mL}$). Source: ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). Ref: 5318.

**10273 6-Hydroxykaempferol-7-O-glucoside**

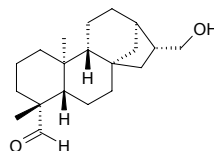
[70056-55-2] $C_{21}H_{20}O_{12}$ (464.39). Yellow acicular crystals. Source: HONG HUA *Carthamus tinctorius*, WAN SHOU JU *Tagetes erecta*. Ref: 644, 1521.

**10274 ent-1β-Hydroxy-9(11),16-kauradien-15-one**

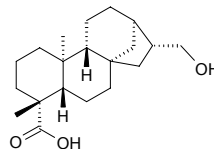
$C_{20}H_{28}O_2$ (300.44). mp 138~140°C, $[\alpha]_D^{20} = +238.7^\circ$ ($c = 6.05$, $CHCl_3$). Pharm: Cytotoxic (hmn leukemia cell line HL-60, $IC_{50} = 7.0 \mu\text{mol/L}$). Source: XIN XI LAN YE TAI *Jungermannia* sp. Ref: 4390.

**10275 17-Hydroxy-16β-ent-kauran-19-al**

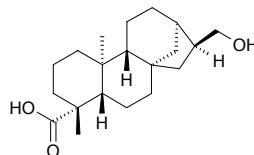
$C_{20}H_{30}O_2$ (304.48). Pharm: Platelet aggregation inhibitor inactive (washed rabbit platelets, 200 μmol/L: 100 μmol/L AA induced, InRt = 0.5%; 10 μmol/L collagen induced, InRt = 4.9%; 1 ng/mL PAF induced, InRt = 10.3%; 0.05 U/mL thrombin induced, InRt = 3.2%). Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.00040%fw). Ref: 4654.

**10276 17-Hydroxy-16β-ent-kauran-19-oic acid**

$C_{20}H_{32}O_3$ (320.48). Pharm: Platelet aggregation selected inhibitor (washed rabbit platelets, 200 μmol/L: 100 μmol/L AA induced, InRt = 4.1%; 10 μmol/L collagen induced, InRt = 23.8%; 1 ng/mL PAF induced, InRt = 7.4%; 0.05 U/mL thrombin induced, InRt = 2.8%)^[4654]; antioxidant (inhibits superoxide anion generation, fMLP/CB, $IC_{50} = (3.6 \pm 0.8) \mu\text{g/mL}$, $p < 0.001$, control DPI, $IC_{50} = (0.13 \pm 0.06) \mu\text{g/mL}$, $p < 0.001$)^[4950]. Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.00053%fw). Ref: 4654, 4950.

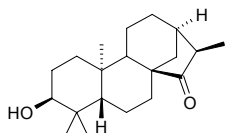
**10277 (-)-17-Hydroxy-16β-kauran-19-oic acid**

16αH-17-Hydroxy-ent-kauran-19-oic acid $C_{20}H_{32}O_3$ (320.48). Pharm: Antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 42.4 \mu\text{g/mL}$; K562, $GI_{50} = 32.8 \mu\text{g/mL}$; HeLa, $CC_{50} = 43 \mu\text{g/mL}$; control Paclitaxel, L-929, $GI_{50} = 0.1 \mu\text{g/mL}$; K562, $GI_{50} = 0.01 \mu\text{g/mL}$; HeLa, $CC_{50} = 0.01 \mu\text{g/mL}$)^[4770]. Source: FAN LI ZHI *Annona squamosa* (stem: yield = 0.00040%fw)^[4654], MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00015%), XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 2, 660, 4654, 4770.

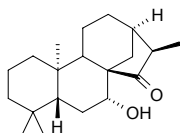


10278 (16R)-ent-3 α -Hydroxykauran-15-one

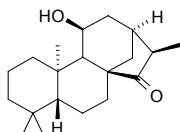
C₂₂H₃₂O₂ (304.48). Oil, $[\alpha]_D^{19} = -45.1^\circ$ ($c = 0.96$). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10279 (16R)-ent-7 β -Hydroxykauran-15-one**

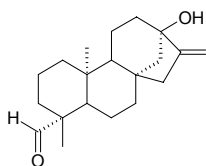
C₂₂H₃₂O₂ (304.48). Pharm: Cytotoxic inactive (hmn leukemia cell HL-60, 10 μ mol/L). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10280 (16R)-ent-11 α -Hydroxykauran-15-one**

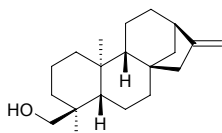
C₂₂H₃₂O₂ (304.48). Pharm: Cytotoxic inactive (hmn leukemia cell HL-60, 10 μ mol/L). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10281 13-Hydroxy-16-ent-kauran-19-al**

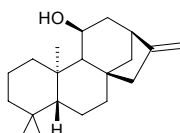
C₂₀H₃₀O₂ (302.46). Pharm: Antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 11.5 μ g/mL; K562, GI₅₀ = 10.5 μ g/mL; HeLa, CC₅₀ = 42.3 μ g/mL; control Paclitaxel, L-929, GI₅₀ = 0.1 μ g/mL; K562, GI₅₀ = 0.01 μ g/mL; HeLa, CC₅₀ = 0.01 μ g/mL). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem; yield = 0.00015%). Ref: 4770.

**10282 ent-18-Hydroxykaur-16-ene**

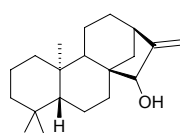
C₂₀H₃₂O (288.48). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

**10283 ent-11 α -Hydroxy-16-karene**

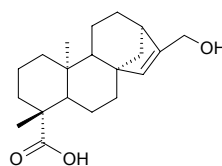
C₂₀H₃₂O (288.48). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10284 ent-15 α -Hydroxy-16-karene**

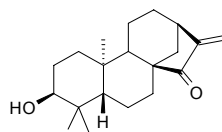
C₂₀H₃₂O (288.48). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10285 (-)-17-Hydroxy-kaur-15-en-19-oic acid**

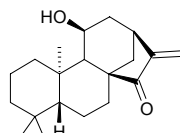
C₂₀H₃₀O₃ (318.46). White solid, mp 187~188°C, $[\alpha]_D^{20} = -101.6^\circ$ ($c = 1$, CHCl₃). Pharm: Na⁺, K⁺-ATP inhibitor (crude enzyme Na⁺, K⁺-ATPase from rat brain, IC₅₀ = 600 μ mol/L). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (semi-synthetic derivative). Ref: 5404.

**10286 ent-3 α -Hydroxy-16-karene-15-one**

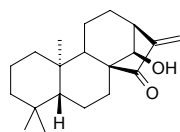
C₂₀H₃₀O₂ (302.46). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**10287 ent-11 α -Hydroxy-16-karene-15-one**

C₂₀H₃₀O₂ (302.46). Pharm: Cytotoxic (hmn leukemia cell HL-60, IC₅₀ = 0.82 μ mol/L, induces apoptosis)^[4201]; cytotoxic (hmn leukemia cell line HL-60, IC₅₀ = 0.49 μ mol/L)^[4390]; apoptosis enhancer (hmn leukemia cells, TNF- α and CPT-induced apoptosis, selectively inhibits NF- κ B-dependent anti-apoptotic proteins)^[5011]. Source: JIE XING YE TAI *Jungermannia truncata*, XIN XI LAN YE TAI *Jungermannia* sp. Ref: 4201, 4390, 5011.

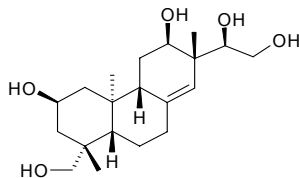
**10288 ent-14 α -Hydroxy-16-karene-15-one**

C₂₀H₃₀O₂ (302.46). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

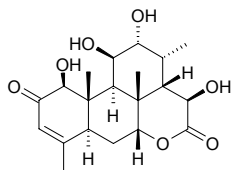


10289 12-Hydroxykirenon

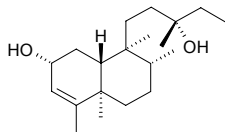
$C_{20}H_{34}O_5$ (354.49). White grain crystals, mp 217~219°C. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 800.

**10290 15β-Hydroxyklaineanone**

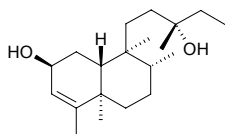
$C_{20}H_{28}O_7$ (380.44). Pharm: Plant growth inhibitor (Cucumber seedling, root growth, $IC_{50} = (10.5 \pm 0.5) \mu\text{mol/L}$, shoot growth, $IC_{50} = (23.7 \pm 0.5) \mu\text{mol/L}$; Rice seedling, root growth, $IC_{50} > 200 \mu\text{mol/L}$, shoot growth, $IC_{50} > 200 \mu\text{mol/L}$)^[5215]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. Ref: 4556, 5215.

**10291 (+)-2α-Hydroxykolavelool**

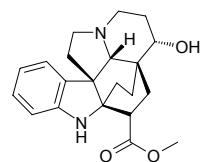
13-Epi-roseosta-chenol $C_{20}H_{34}O_2$ (306.49). Colorless amorphous solid, $[\alpha]_D^{25} = +10.0^\circ$ ($c = 0.10$, CHCl_3). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.

**10292 (-)-2β-Hydroxykolavelool**

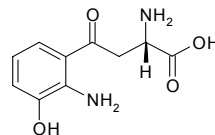
$C_{20}H_{34}O_2$ (306.49). Colorless amorphous solid, $[\alpha]_D^{25} = -38.5^\circ$ ($c = 0.09$, CHCl_3). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.

**10293 15α-Hydroxykopsinine**

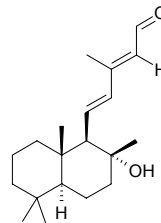
$C_{21}H_{26}N_2O_3$ (354.45). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

**10294 3-Hydroxykynurenine**

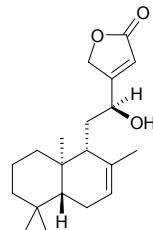
[606-14-4] $C_{10}H_{12}N_2O_4$ (224.22). mp (-) 185~190°C, (\pm) 223°C (dec). Source: YUAN CAN ZI *Bombyx mori*. Ref: 6.

**10295 8α-Hydroxy-11E,13Z-labdadien-15-al**

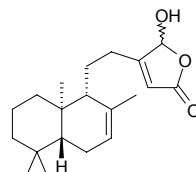
$C_{20}H_{32}O_2$ (304.48). Amorphous, $[\alpha]_D^{27} = +87.5^\circ$ ($c = 0.20$, CHCl_3). Source: TAI WAN SHAN MU *Cunninghamia konishii* (wood). Ref: 4176.

**10296 ent-12R-Hydroxyabda-7,13-dien-15,16-olide**

$C_{20}H_{30}O_3$ (318.46). White crystals ($\text{MeOH-H}_2\text{O}$), mp 108~110°C, $[\alpha]_D = -5.4^\circ$ (CHCl_3 , $c = 0.19$). Pharm: Antitrypanosomal (protozoan parasite *Trypanosoma cruzi*, *in vitro*, 250 $\mu\text{g/mL}$, 100% lysis); cytotoxic inactive (Lu1, 20 $\mu\text{g/mL}$, control Ellipticine, $ED_{50} = 0.02 \mu\text{g/mL}$; Col2, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.3 \mu\text{g/mL}$; KB, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.04 \mu\text{g/mL}$; LN CaP, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.8 \mu\text{g/mL}$; KB in absence of 1 $\mu\text{g/mL}$ vinblastine, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.3 \mu\text{g/mL}$; KB in presence of 1 $\mu\text{g/mL}$ vinblastine, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.2 \mu\text{g/mL}$; BC1, 20 $\mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.5 \mu\text{g/mL}$). Source: *Alomia myriadenia* (aerial parts). Ref: 3479.

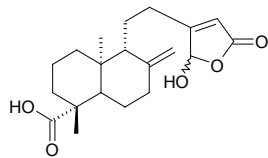
**10297 ent-16-Hydroxyabda-7,13-dien-15,16-olide**

$C_{20}H_{30}O_3$ (318.46). White crystals ($\text{MeOH-H}_2\text{O}$), mp 128~129°C, $[\alpha]_D = +40.9^\circ$ (MeOH , $c = 0.21$). Pharm: Cytotoxic (Lu1, $ED_{50} = 0.3 \mu\text{g/mL}$, control Ellipticine, $ED_{50} = 0.02 \mu\text{g/mL}$; Col2, $ED_{50} = 1.2 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.3 \mu\text{g/mL}$; KB, $ED_{50} = 1.7 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.04 \mu\text{g/mL}$; LNCaP, $ED_{50} = 4.2 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.8 \mu\text{g/mL}$; KB in absence of 1 $\mu\text{g/mL}$ vinblastine, $ED_{50} = 1.4 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.3 \mu\text{g/mL}$; KB in presence of 1 $\mu\text{g/mL}$ vinblastine, $ED_{50} = 9.9 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.2 \mu\text{g/mL}$; BC1, $ED_{50} = 2.6 \mu\text{g/mL}$, Ellipticine, $ED_{50} = 0.5 \mu\text{g/mL}$); antitrypanosomal (protozoan parasite *Trypanosoma cruzi*, *in vitro*, 250 $\mu\text{g/mL}$, 100% lysis). Source: *Alomia myriadenia* (aerial parts). Ref: 3479.

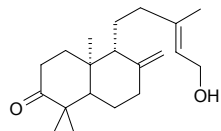


10298 16-Hydroxy-8(17),13-*ent*-labdadien-15,16-olide-19-oic acid

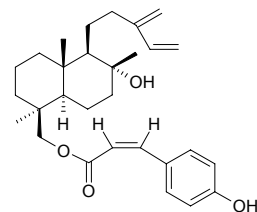
$C_{20}H_{28}O_5$ (348.44). Pale-yellow gum, $[\alpha]_D^{25} = -36.6^\circ$ ($c = 0.32$, MeOH).
 Source: BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole herb). Ref: 3488.

**10299 *ent*-15-Hydroxyabda-8(17),13*E*-dien-3-one**

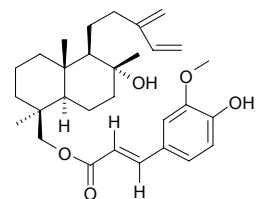
$C_{20}H_{32}O_2$ (304.48). Colorless needles (MeOH), mp 117–118°C, $[\alpha]_D^{25} = -9.2^\circ$ ($c = 0.8$, $CHCl_3$). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

**10300 8 α -Hydroxyabda-13(16),14-dien-19-yl-(*Z*)-4-hydroxycinnamate**

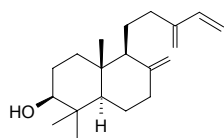
$C_{29}H_{40}O_4$ (452.64). Solid, mp = 206–208°C, $[\alpha]_D^{25} = +6.5^\circ$ ($c = 1.65$, MeOH).
 Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

**10301 8 α -Hydroxyabda-13(16),14-dien-19-yl-(*E*)-4-hydroxy-3-methoxy-cinnamate**

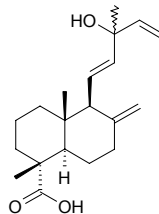
$C_{30}H_{42}O_5$ (482.67). Solid, mp = 110–112°C, $[\alpha]_D^{25} = +6.2^\circ$ ($c = 0.7$, MeOH).
 Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

**10302 3 β -Hydroxy-labda-8(17),13(16),14-triene**

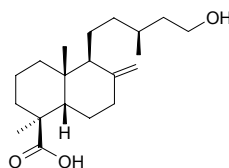
$C_{20}H_{32}O$ (288.48). $[\alpha]_D^{20} = +12.1^\circ$ ($c = 1.3$, $CHCl_3$). Source: YUAN YE TAI *Jamesoniella colorata*. Ref: 3375.

**10303 (13*R*)-13-Hydroxy-8(17),11*E*,14-labdatrien-18-oic acid**

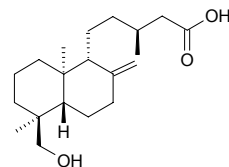
$C_{20}H_{30}O_3$ (318.46). Amorphous, $[\alpha]_D^{26} = +51.7^\circ$ ($c = 0.17$, $CHCl_3$). Source: TAI WAN SHAN MU *Cunninghamia konishii* (wood). Ref: 4176.

**10304 *ent*-15-Hydroxy-8(17)-labden-19-oic acid**

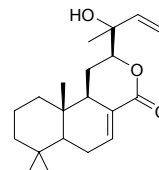
$C_{20}H_{34}O_3$ (322.49). Source: *Nuxia sphaerocephala* (leaf). Ref: 4419.

**10305 *ent*-18-Hydroxy-8(17)-labden-15-oic acid**

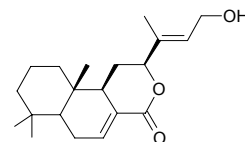
$C_{20}H_{34}O_3$ (322.49). Source: *Nuxia sphaerocephala* (leaf). Ref: 4419.

**10306 13-Hydroxylabta-7,14-diene-17,12-olide**

$C_{20}H_{30}O_3$ (318.46). mp 105–107°C, $[\alpha]_D^{20} = +19.826^\circ$ ($c = 1.1$, $CHCl_3$).
 Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10 $\mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

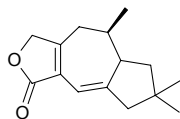
**10307 15-Hydroxylabta-7,13(*E*)-diene-17,12-olide**

$C_{20}H_{30}O_3$ (318.46). mp 128–130°C, $[\alpha]_D^{20} = -3.44^\circ$ ($c = 1.31$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, BT474, IC₅₀ = 5.9 $\mu\text{g/mL}$, control Doxorubicin hydrochloride, IC₅₀ = 0.08 $\mu\text{g/mL}$; CHAGO, IC₅₀ = 6.0 $\mu\text{g/mL}$, Doxorubicin hydrochloride, IC₅₀ = 2.3 $\mu\text{g/mL}$; HepG2, IC₅₀ > 10 $\mu\text{g/mL}$, Doxorubicin hydrochloride, IC₅₀ = 0.9 $\mu\text{g/mL}$; Kato3, IC₅₀ = 7.6 $\mu\text{g/mL}$, Doxorubicin hydrochloride, IC₅₀ = 1.7 $\mu\text{g/mL}$; SW620, IC₅₀ = 6.0 $\mu\text{g/mL}$, Doxorubicin hydrochloride, IC₅₀ = 1.1 $\mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

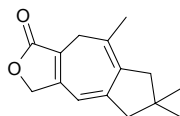


10308 5-Hydroxy-lactara-6,8-dien-13-oic acid γ -lactone

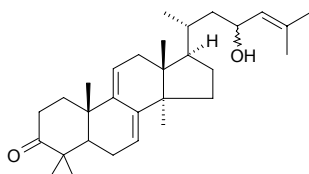
$C_{15}H_{20}O_2$ (232.33). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**10309 13-Hydroxy-lactara-2,6,8-trien-5-oic acid γ -lactone**

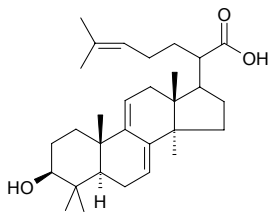
$C_{15}H_{18}O_2$ (230.31). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**10310 23-Hydroxy-5 α -lanosta-7,9(11),24-triene-3-one**

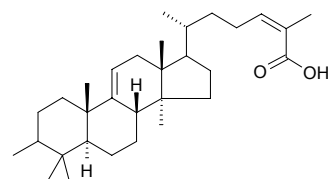
$C_{30}H_{46}O_2$ (438.70). Colorless needles (methanol), mp 95°C, $[\alpha]_D = -32.25^\circ$ ($c = 0.01$, $CHCl_3$). Pharm: Antileishmanial (*Leishmania donovani* promastigotes, $IC_{50} = 7.2\mu\text{mol/L}$, SI = 4.19; control Pentamidine, $IC_{50} = 0.40\mu\text{mol/L}$, SI = 0.42, amastigotes, $IC_{50} = 74.4\mu\text{mol/L}$, SI = 0.40; control Pentostam, $IC_{50} = 9.75\mu\text{g/mL}$, SI = 34.90); antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 95\mu\text{mol/L}$, SI = 0.32; control Chloroquine, $IC_{50} = 0.59\mu\text{mol/L}$, SI = 272); antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, $IC_{50} = 5\mu\text{mol/L}$, SI = 6.0; control Pentamidine, $IC_{50} = 0.00034\mu\text{mol/L}$, SI = 500); cytotoxic (KB cells, $IC_{50} = 30.2\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.17\mu\text{mol/L}$). Source: *Guarea rhopalocarpa* (leaf). Ref: 5127.

**10311 3 β -Hydroxylanosta-7,9(11),24-trien-21-oic acid**

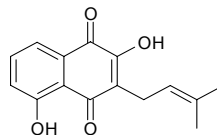
$C_{30}H_{46}O_3$ (454.70). mp 257~259°C. Source: FU LING *Poria cocos*. Ref: 2, 6.

**10312 3 β -Hydroxy-lanost-9(11),24(25)-dien-26-oic acid**

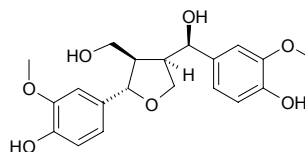
$C_{31}H_{50}O_2$ (454.74). Source: XIAO HUA WU WEI ZI *Schisandra micrantha* (stem and leaf). Ref: 4389.

**10313 5-Hydroxylapachol**

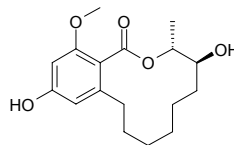
$C_{15}H_{14}O_4$ (258.28). orange needles, mp 142~144°C. Source: YOU MU *Tectona grandis*. Ref: 1902.

**10314 (7'R)-7'-Hydroxylariciresinol**

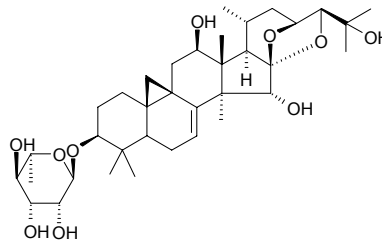
$C_{20}H_{24}O_7$ (376.41). Pharm: Hepatoprotective (mouse, 50mg/kg, TNF- α level = $(288\pm 187)\text{pg/mL}$, 10 mg/kg, TNF- α level = $(310\pm 179)\text{pg/mL}$)^[4917]; antioxidant (DPPH free radical scavenger, $IC_{50} = 44.7\mu\text{mol/L}$, control Caffeic acid, $IC_{50} = 25.5\mu\text{mol/L}$)^[5407]; NO production inhibitor ($IC_{50} = 178\mu\text{mol/L}$, control L-NMMA, $IC_{50} = 28.5\mu\text{mol/L}$)^[5407]. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 4917, 5407.

**10315 (3R),(4S)-4-Hydroxylasiodiopodin**

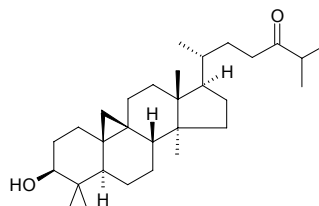
$C_{17}H_{24}O_5$ (308.38). White powder, mp 217~218°C, $[\alpha]_D^{25} = +2.0^\circ$ ($c = 1.0$, MeOH). Pharm: Potato micro-tuber inducer (100 $\mu\text{mol/L}$, control Jasmonic acid, 1 $\mu\text{mol/L}$, Theobroxide, 10 $\mu\text{mol/L}$). Source: *Lasiodiopodia theobromae*. Ref: 3966.

**10316 12 β -Hydroxylcimigenol 3-O- α -L-arabinopyranoside**

$C_{36}H_{56}O_{10}$ (648.84). Source: XING AN SHENG MA *Cimicifuga dahurica* (rhizome). Ref: 4140.

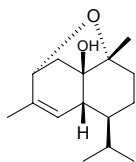
**10317 3 β -Hydroxyleycloart-24-one**

$C_{30}H_{50}O_2$ (442.73). Pharm: Cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 9.0\mu\text{g/mL}$, LLC cell line, $ED_{50} = 9.0\mu\text{g/mL}$). Source: QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). Ref: 3510.



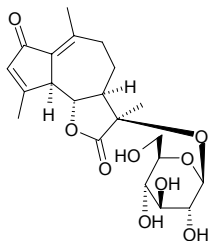
10318 10-Hydroxylentideusether

$C_{15}H_{24}O_2$ (236.36). Source: BAO PI GU *Lentinus lepideus*. Ref: 660.

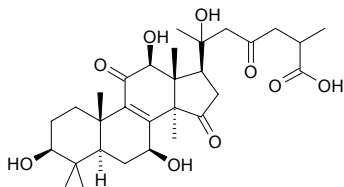
**10319 11 β -Hydroxyleukodin 11-O- β -glucopyranoside**

$C_{21}H_{28}O_9$ (424.45). Colorless gum, $[\alpha]_D^{28} = +25.2^\circ$ ($c = 0.33$, MeOH).

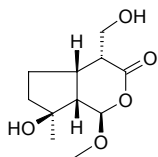
Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*. Ref: 5357.

**10320 20-Hydroxylganoderic acid G**

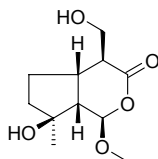
$C_{30}H_{44}O_9$ (548.68). Pale yellow needles (MeOH-H₂O), mp 175-177°C, $[\alpha]_D^{25} = +42^\circ$ ($c = 0.12$, MeOH). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp; yield = 0.0004%). Ref: 4603.

**10321 (1R,4R,4aS,7S,7aS)-7-Hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4a,7a-tetrahydrocyclopenta[e]-pyran-3-one**

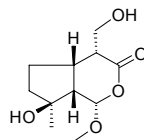
$C_{11}H_{18}O_5$ (230.26). Colorless gum, $[\alpha]_D^{25} = +23.9$ ($c = 0.45$, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

**10322 (1R,4S,4aS,7S,7aS)-7-hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4a,7a-tetrahydrocyclopenta[e]-pyran-3-one**

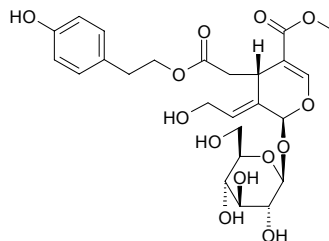
$C_{11}H_{18}O_5$ (230.26). White amorphous powder, $[\alpha]_D^{25} = +33.5$ ($c = 0.35$, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

**10323 (1S,4R,4aS,7S,7aS)-7-Hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4a,7a-tetrahydrocyclopenta[e]-pyran-3-one**

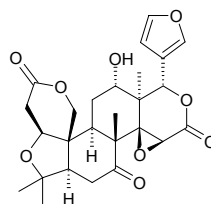
$C_{11}H_{18}O_5$ (230.26). Colorless gum, $[\alpha]_D^{25} = +23.7^\circ$ ($c = 0.25$, CHCl₃). Source: GUANG YAO DA HUANG HUA *Cymbaria mongolica*. Ref: 2001.

**10324 10-Hydroxyligustroside**

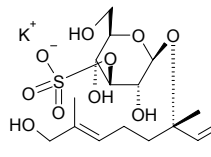
$C_{25}H_{32}O_{13}$ (540.53). Source: NV ZHEN ZI *Ligustrum lucidum*. Ref: 660.

**10325 12 α -Hydroxylimonin**

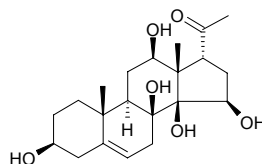
$C_{26}H_{30}O_9$ (486.52). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877.

**10326 (3S,6E)-8-Hydroxylinalool 3-O- β -D-(3-O-Potassium sulfo) glucopyranoside**

$C_{16}H_{27}KO_{10}S$ (450.55). Amorphous powder, $[\alpha]_D^{21} = -12^\circ$ ($c = 0.9$, MeOH). Source: HU SUI ZI *Coriandrum sativum*. Ref: 4302.

**10327 15 β -Hydroxylineolon**

15 β -Hydroxylineolone $C_{21}H_{32}O_6$ (380.49). Amorphous powder, $[\alpha]_D^{21} = -3.4^\circ$ ($c = 0.85$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

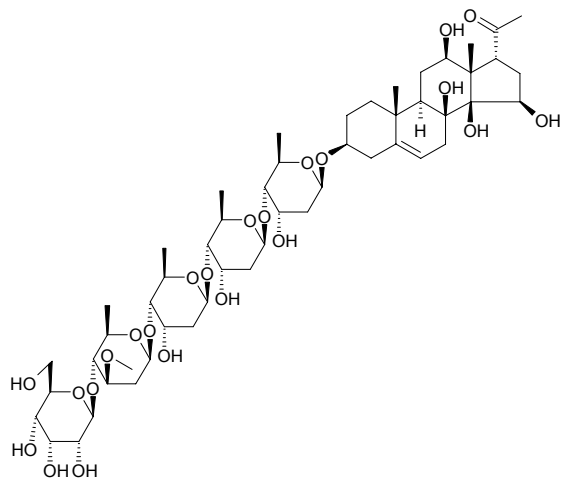


10328 15- β -Hydroxylineolon 3-O- β -D-allopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₅₂H₈₄O₂₃ (1077.24). Amorphous powder, $[\alpha]_D^{27} = +1.6^\circ$ ($c = 0.41$, MeOH).

Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref:

3925.

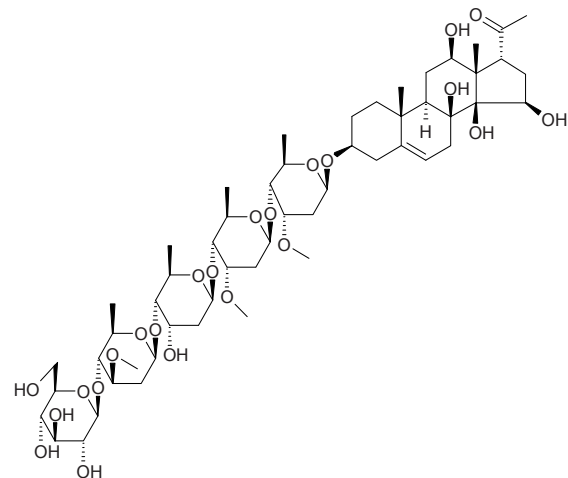


10329 15- β -Hydroxylineolon 3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₅₄H₈₈O₂₃ (1105.29). Amorphous powder, $[\alpha]_D^{21} = +7.9^\circ$ ($c = 0.63$, MeOH).

Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref:

3925.

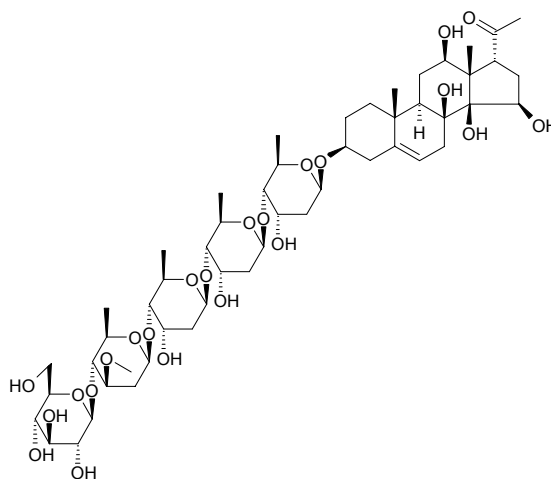


10330 15- β -Hydroxylineolon 3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₅₂H₈₄O₂₃ (1077.24). Amorphous powder, $[\alpha]_D^{21} = +1.9^\circ$ ($c = 0.84$, MeOH).

Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref:

3925.

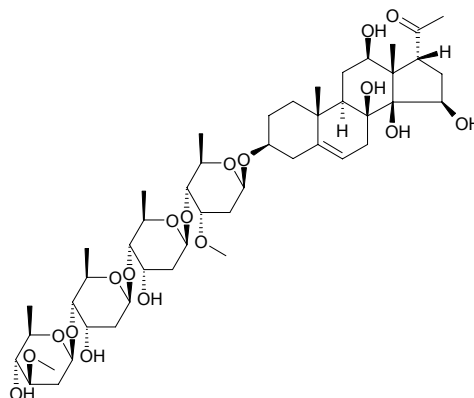


10331 15- β -Hydroxylineolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₄₇H₇₆O₁₈ (929.12). Amorphous powder, $[\alpha]_D^{27} = +3.7^\circ$ ($c = 0.79$, MeOH).

Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref:

3925.

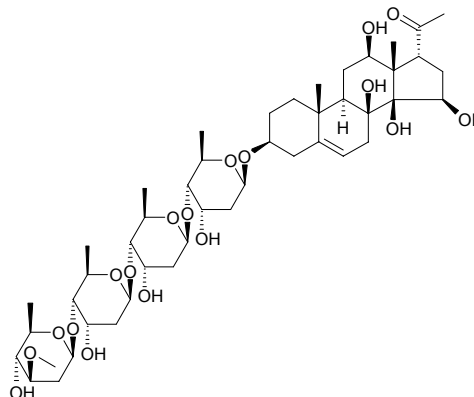


10332 15- β -Hydroxylineolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₄₆H₇₄O₁₈ (915.09). Amorphous powder, $[\alpha]_D^{27} = -0.53^\circ$ ($c = 1.23$, MeOH).

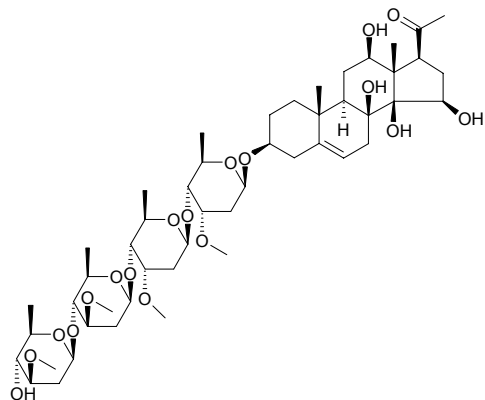
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref:

3925.



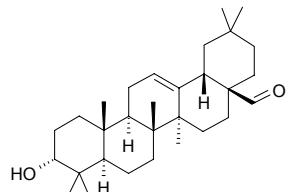
10333 15- β -Hydroxylineolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₄₉H₈₀O₁₈ (957.17). Amorphous powder, $[\alpha]_D^{27} = -2.2^\circ$ ($c = 0.80$, MeOH).
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). **Ref:** 3925.



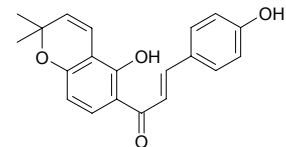
10334 3 β -Hydroxy-olean-12-en-28-al

C₃₀H₄₈O₂ (440.72). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.



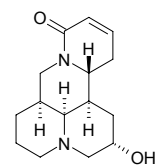
10335 4-Hydroxyonchocarpin

C₂₀H₁₈O₄ (322.36). **Source:** *Glycyrrhiza* sp. **Ref:** 2431.



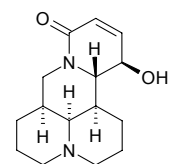
10336 (-)-9 α -Hydroxylsophocarpine

C₁₅H₂₂N₂O₂ (262.35). Colorless crystals (benzene), mp 120°C, $[\alpha]_D^{25} = -44.2^\circ$ ($c = 0.36$, EtOH). **Source:** BAI CI HUA *Sophora viciifolia*. **Ref:** 1888.



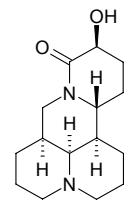
10337 (-)-12 β -Hydroxylsophocarpine

C₁₅H₂₂N₂O₂ (262.35). Colorless crystals (benzene), mp 146°C, $[\alpha]_D^{25} = -215.1^\circ$ ($c = 0.22$, EtOH). **Source:** BAI CI HUA *Sophora viciifolia*. **Ref:** 1888.



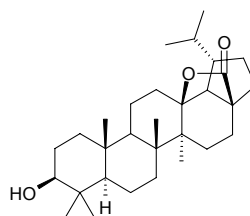
10338 (-)-14 β -Hydroxylsophoridine

C₁₅H₂₄N₂O₂ (264.37). Colorless needles (CH₂Cl₂-*n*-hexane), mp. 90°C, $[\alpha]_D^{25} = -94.8^\circ$ ($c = 0.47$, EtOH). **Source:** BAI CI HUA *Sophora viciifolia*. **Ref:** 1888.



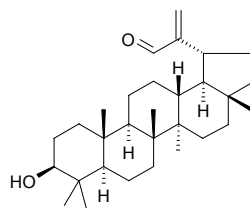
10339 3 β -Hydroxylupane-13 β ,28-lactone

C₃₀H₄₈O₃ (456.72). **Source:** WU YA GUO *Dillenia indica*. **Ref:** 660.



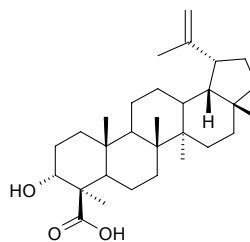
10340 3 β -Hydroxy-lup-20(29)-en-30-al

C₃₀H₄₈O₂ (440.72). **Pharm:** Cytotoxic (NSCLC-N6 cell line, IC₅₀ = (11 \pm 0.02) μ g/mL)^[3806]; antimalarial (*Plasmodium falciparum* FcB1, IC₅₀ = (3.15 \pm 0.07) μ g/mL, control Chloroquine, IC₅₀ = (0.05 \pm 0.002) μ g/mL; *Plasmodium falciparum* FcM29, IC₅₀ = (4.06 \pm 0.53) μ g/mL)^[4419]. **Source:** JU MI JIN HE HUAN *Acacia mellifera* (stem cortex), *Nuxia sphaerocephala* (leaf). **Ref:** 3806, 4419.



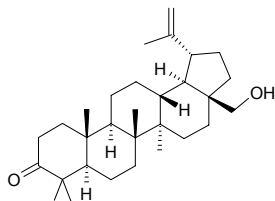
10341 3 α -Hydroxy-lup-20(29)-en-24-oic acid

C₃₀H₄₈O₃ (456.72). Colorless crystals (MeOH), $[\alpha]_D^{25} = +16^\circ$ ($c = 1.15$, CHCl₃). **Source:** RU XIANG *Boswellia carterii*. **Ref:** 2050.

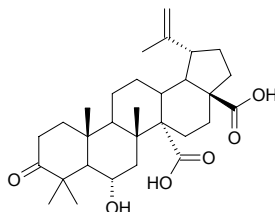


10342 28-Hydroxy-lup-20(29)-en-3-one

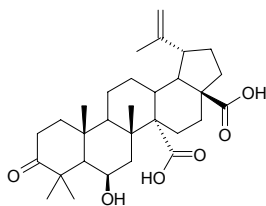
$C_{30}H_{48}O_2$ (440.72). **Pharm:** Cytotoxic (NSCLC-N6 cell line, $IC_{50} = (30 \pm 0.04) \mu\text{g/mL}$). **Source:** JU MI JIN HE HUAN *Acacia mellifera* (stem cortex). **Ref:** 3806.

**10343 6 α -Hydroxylup-20(29)-en-3-oxo-27,28-dioic acid**

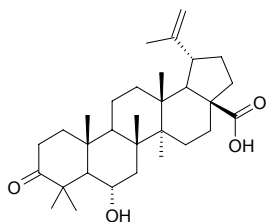
$C_{30}H_{44}O_6$ (500.68). Amorphous powder, $[\alpha]_D^{26} = +70.6^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Cytotoxic inactive (*in vitro*, gastric tumour NUGC, $10 \mu\text{mol/L}$, $\text{InRt} < 50\%$; control Antinomycin D, $10 \mu\text{mol/L}$, $\text{InRt} = (98\sim 100)\%$). **Source:** XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0055%). **Ref:** 4638.

**10344 6 β -Hydroxylup-20(29)-en-3-oxo-27,28-dioic acid**

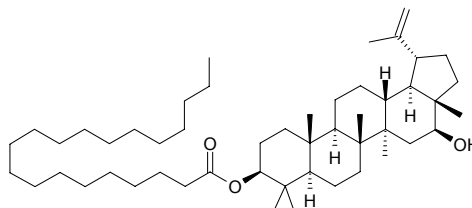
$C_{30}H_{44}O_6$ (500.68). Amorphous powder, $[\alpha]_D^{26} = -17.5^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Cytotoxic (*in vitro*, gastric tumour NUGC, $10 \mu\text{mol/L}$, $\text{InRt} = 80\%$; control Antinomycin D, $10 \mu\text{mol/L}$, $\text{InRt} = (98\sim 100)\%$). **Source:** XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.009%). **Ref:** 4638.

**10345 6 α -Hydroxylup-20(29)-en-3-oxo-28-oic acid**

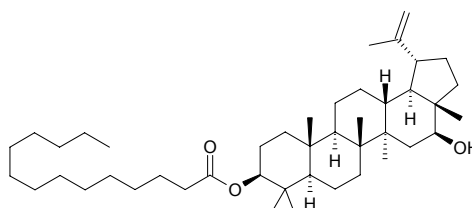
$C_{31}H_{48}O_4$ (484.73). **Source:** XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower). **Ref:** 4638.

**10346 16 β -Hydroxylupeol 3-O-eicosanoate**

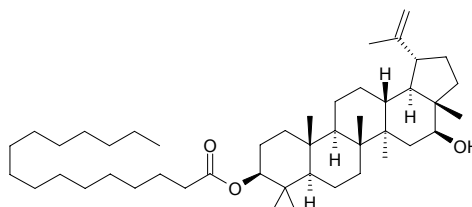
$C_{50}H_{88}O_3$ (737.26). mp $90\sim 91^\circ\text{C}$, $[\alpha]_D = +31.2^\circ$ ($c = 0.1$, CHCl_3). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**10347 16 β -Hydroxylupeol 3-O-myristate**

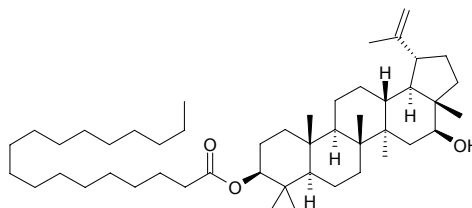
$C_{44}H_{76}O_3$ (653.09). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**10348 16 β -Hydroxylupeol 3-O-palmitate**

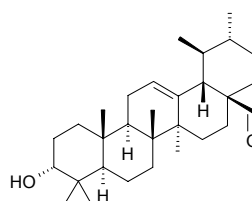
$C_{46}H_{80}O_3$ (681.15). Colorless powder. **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**10349 16 β -Hydroxylupeol 3-O-stearate**

$C_{48}H_{84}O_3$ (709.20). mp $90\sim 91^\circ\text{C}$, $[\alpha]_D = +33.2^\circ$ ($c = 0.1$, CHCl_3). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

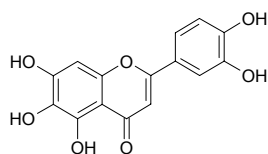
**10350 3 β -Hydroxy-urs-12-en-28-al**

$C_{30}H_{48}O_2$ (440.72). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.

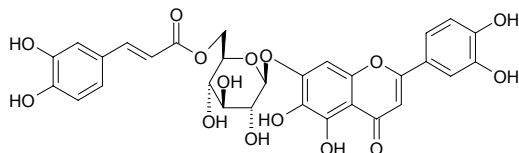


10351 6-Hydroxyluteolin

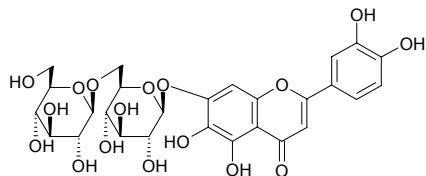
Demethylpedalitin; 6-Hydroxyluteolol; 5,6,7,3',4'-Pentahydroxyflavone [18003-33-3] C₁₅H₁₀O₇ (302.24). Plates (EtOAc), mp 284°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 0.01%; *Corynebacterium acnes*, MIC = 0.02%; *Bacillus pyocyaneus*, MIC = 0.01%; *Staphylococcus epidermidis*, MIC = 0.0025%; *S. thomophilus*, MIC = 0.02%); antifungal (*Trichophyton rubrum*, MIC = 0.01%); antioxidant; α -glucosidase inhibitor (mus small intestines, IC₅₀ = 29 μ mol/L, 50 μ mol/L, InRt = 60%); invertase inhibitor (IC₅₀ = 13 μ mol/L, 50 μ mol/L, InRt = 82%); aldose reductase inhibitor (ox eye lens, IC₅₀ = 0.46 μ mol/L, rat eye lens, IC₅₀ = 0.2 μ mol/L, 10 μ mol/L, InRt = 86.7%, 1 μ mol/L, InRt = 53.3%); LD₅₀ (mus, orl) \geq 3000mg/kg. **Source:** CHE QIAN *Plantago asiatica*, DA CHE QIAN *Plantago major*, CHOU MO LI *Clerodendron fragrans*, YI ZHI XIANG *Veronica spuria*, MAO HUA MAO DI HUANG *Digitalis lanata*. **Ref:** 6, 660, 900, 1521.

**10352 6-Hydroxyluteolin 7-O-(6''-O-(E)-caffeoyl)- β -glucopyranoside**

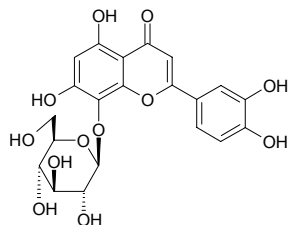
C₃₀H₂₆O₁₅ (626.53). Pale yellow solid (MeOH). **Source:** CHANG WEI PO PO NA *Veronica longifolia*, *Veronica liwanensis*. **Ref:** 3486.

**10353 6-Hydroxyluteolin-7-diglucoside**

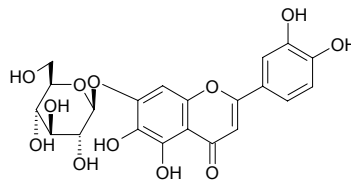
C₂₇H₃₀O₁₇ (626.53). **Source:** A LA BO PO PO NA *Veronica persica*, BEI SHUI KU MAI *Veronica anagallis-aquatica*, DA HUA XUAN FU HUA CAO *Inula britannica*. **Ref:** 660.

**10354 8-Hydroxyluteolin-8- β -D-glucopyranoside**

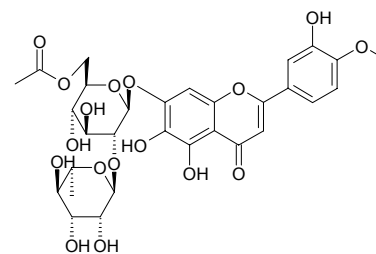
C₂₁H₂₀O₁₂ (464.39). mp 269–271°C. **Source:** FU PING *Lemna minor*. **Ref:** 6.

**10355 6-Hydroxyluteolin-7-O-glucoside**

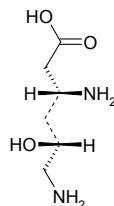
C₂₁H₂₀O₁₂ (464.39). **Source:** BEI SHUI KU MAI *Veronica anagallis-aquatica*, **Ref:** 660.

**10356 6-Hydroxyluteolin 4'-methyl ether 7-O- α -rhamnopyranosyl (1'' \rightarrow 2'')-[6''-O-acetyl- β -glucopyranoside]**

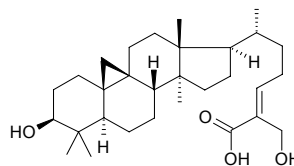
C₃₀H₃₄O₁₇ (666.60). Yellow solid (MeOH). **Source:** CHANG WEI PO PO NA *Veronica longifolia*, *Veronica liwanensis*. **Ref:** 3486.

**10357 δ -Hydroxyllysine**

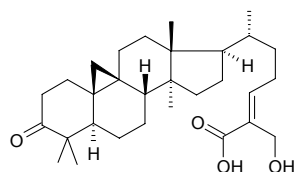
C₆H₁₄N₂O₃ (162.19). **Source:** MO GU *Agaricus campestris*. **Ref:** 6, 1521.

**10358 Hydroxymangiferolic acid**

C₃₀H₄₈O₄ (472.71). mp 201–204°C. **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

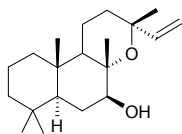
**10359 Hydroxymangiferonic acid**

C₃₀H₄₆O₄ (470.70). mp 190–192°C. **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

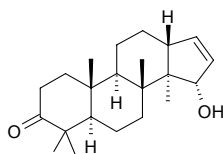


10360 7 β -Hydroxymanoyl oxide

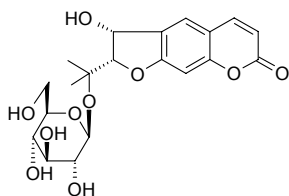
C₂₀H₃₄O₂ (306.49). Amorphous solid, $[\alpha]_D^{23} = +35.2^\circ$ ($c = 0.5$, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4443.

**10361 15 α -Hydroxymansumbinone**

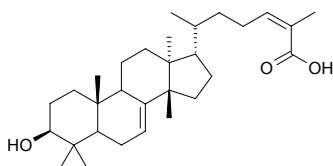
C₂₂H₃₄O₂ (330.52). Colorless crystals (*n*-hexane:CH₂Cl₂ = 4:1), mp 149~150°, $[\alpha]_D^{22} = +18^\circ$ ($c = 0.8$, CHCl₃). Source: KEN NI YA MO YAO *Commiphora kua* var. *gowllo*. Ref: 1991.

**10362 (3*R'*)-Hydroxymarmesin 4'-*O*- β -D-glucopyranoside**

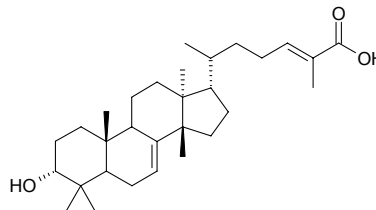
C₂₀H₂₄O₁₀ (424.41). mp 267~269°C, $[\alpha]_D^{22} = -19^\circ$. Pharm: Antioxidant (DPPH scavenger, EC₅₀ > 50 μ g/mL, 50 μ g/mL InRt = 24%, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]. Source: BEI SHA SHEN *Glehnia littoralis* (underground part), BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525, 4154.

**10363 3 β -Hydroxy-masticadienolic acid**

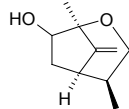
Masticadienolic acid C₃₀H₄₈O₃ (456.72). Pharm: Anti-inflammatory (*in vivo*, prevents ear oedema formation caused by PMA and synthesis of LOX products, especially LTC₄ and COX metabolites derived from arachidonic acid)^[4415]. Source: RU DU XIANG *Pistacia terebinthus*, *Juliania adstringens* (bark). Ref: 3786, 4415.

**10364 3 α -Hydroxymasticadienonic acid**

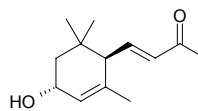
Schinol C₃₀H₄₈O₃ (456.72). mp 143~145°C, $[\alpha]_D^{25} = -95.5^\circ$ ($c = 0.13$, CHCl₃). Pharm: Gastroprotective (30 mg/kg, Gp = (69.8 \pm 5.8)%; control Carbenoxolone, Gp = (88.4 \pm 5.4)%), $p < 0.05$)^[5461]; cytotoxic (leukemia cells L1210, IC₅₀ = 20 μ g/mL)^[3786]. Source: SHOU LIAN LIANG YI MU *Amphipterygium adstringens* (stem cortex), *Juliania adstringens* (bark). Ref: 3786, 5461.

**10365 5-Hydroxymatatabiether**

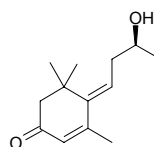
C₁₀H₁₆O₂ (168.24). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.

**10366 (3*R*,6*R*,7*E*)-3-Hydroxy-4,7-megastigmadien-9-one**

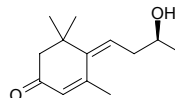
C₁₃H₂₀O₂ (208.30). Colorless oil, $[\alpha]_D^{25} = +37.1^\circ$ ($c = 0.21$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

**10367 (6*Z*,9*S*)-9-Hydroxy-4,6-megastigmadien-3-one**

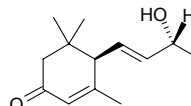
C₁₃H₂₀O₂ (208.30). Colorless oil, $[\alpha]_D^{25} = +4.7^\circ$ ($c = 0.42$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

**10368 (6*Z*,9*S*)-9-Hydroxy-4,6-megastigmadien-3-one**

C₁₃H₂₀O₂ (208.30). Colorless oil, $[\alpha]_D^{25} = +28.5^\circ$ ($c = 0.37$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

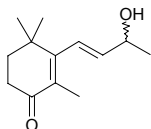
**10369 (6*R*,7*E*,9*R*)-9-Hydroxy-4,7-megastigmadien-3-one**

C₁₃H₂₀O₂ (208.30). Colorless oil, $[\alpha]_D^{25} = +292.0^\circ$ ($c = 0.42$, CH₂Cl₂). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

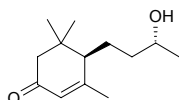


10370 (7E,9Z)-9-Hydroxy-5,7-megastigmadien-4-one

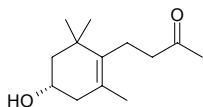
$C_{13}H_{20}O_2$ (208.30). Colorless oil, $[\alpha]_D^{25} = +101.1^\circ$ ($c = 0.39$, CH_2Cl_2). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

**10371 (6R,9R)-9-Hydroxy-4-megastigmen-3-one**

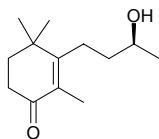
$C_{13}H_{22}O_2$ (210.32). Colorless oil, $[\alpha]_D^{25} = +83.6^\circ$ ($c = 0.61$, CH_2Cl_2). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.

**10372 3-Hydroxymegastigm-5-en-9-one**

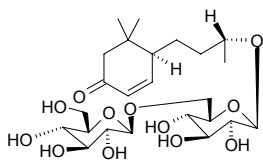
$C_{13}H_{22}O_2$ (210.32). Oil, $[\alpha]_D^{25} = +34.5^\circ$ ($c = 0.5$, $CHCl_3$). Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

**10373 (S)-9-Hydroxymegastigm-5-en-4-one**

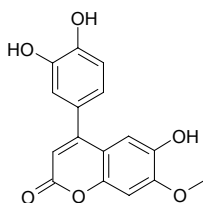
$C_{13}H_{22}O_2$ (210.32). Oil, $[\alpha]_D^{25} = +8.1^\circ$ ($c = 0.4$, $CHCl_3$). Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

**10374 (6R,9R)-9-Hydroxy-4-megastigmen-3-one 9-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

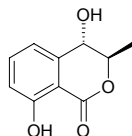
$C_{24}H_{40}O_{12}$ (520.58). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 20.05\mu g/mL$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu g/mL$). Source: HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00140%dw). Ref: 4788.

**10375 3'-Hydroxymelanettin**

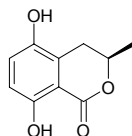
[200391-95-3] $C_{16}H_{12}O_6$ (300.27). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**10376 (-)-(3R,4S)-4-Hydroxymellein**

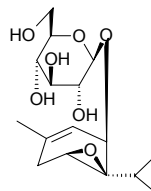
$C_{10}H_{10}O_4$ (194.19). $[\alpha]_D^{23} = -26.3^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Antioxidant inactive (DPPH scavenger, $25\mu g/mL$, ScRt = 5.7%, control BHT $25\mu g/mL$, ScRt = 18.6%); antioxidant (TBARS assay, inhibits peroxidation of linolenic acid, $37mg/mL$, InRt = 18.4%, BHT $37mg/mL$, InRt = 73.9%). Source: fungus *Epicoccum* sp. Ref: 5445.

**10377 (-)-(3R)-5-Hydroxymellein**

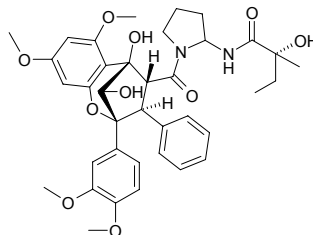
$C_{10}H_{10}O_4$ (194.19). Amorphous powder, $[\alpha]_D^{23} = -19.8^\circ$ ($c = 0.05$, CH_2Cl_2). Pharm: Antioxidant (DPPH scavenger, $25\mu g/mL$, ScRt = 22.4%, control BHT $25\mu g/mL$, ScRt = 18.6%); antioxidant (TBARS assay, inhibits peroxidation of linolenic acid, $37mg/mL$, InRt = 30.4%, BHT $37mg/mL$, InRt = 73.9%). Source: fungus *Epicoccum* sp. Ref: 5445.

**10378 3β-Hydroxy-p-menth-1-en-4β,5β-oxide 3-O-β-D-glucopyranoside**

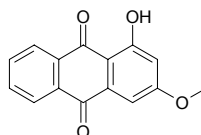
$C_{16}H_{26}O_7$ (330.38). Amorphous powder, $[\alpha]_D^{24} = +45^\circ$ ($c = 0.5$, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

**10379 19-Hydroxy-3'-methoxyaglaïne C**

$C_{37}H_{44}N_2O_{10}$ (676.77). $[\alpha]_D^{20} = -111.1^\circ$ ($c = 0.18$, $CHCl_3$). Source: MI ZI LAN *Aglaia odorata*. Ref: 2289.

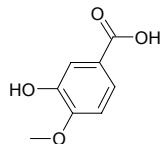
**10380 1-Hydroxy-3-methoxyanthraquinone**

$C_{15}H_{10}O_4$ (254.24). Pharm: Cytotoxic (KB, $ED_{50} > 25\mu g/mL$, control Doxorubicin, $ED_{50} = 0.12\mu g/mL$; Hep3B, $ED_{50} > 25\mu g/mL$, Doxorubicin, $ED_{50} = 0.14\mu g/mL$; Colon205, $ED_{50} > 25\mu g/mL$, Doxorubicin, $ED_{50} = 0.10\mu g/mL$; HeLa, $ED_{50} > 25\mu g/mL$, Doxorubicin, $ED_{50} = 0.11\mu g/mL$). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

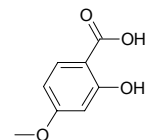


10381 3-Hydroxy-4-methoxy benzoic acid

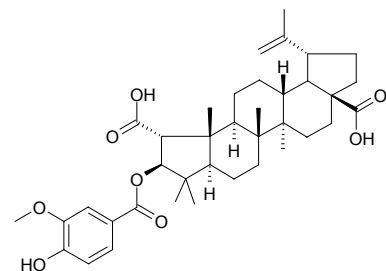
Isovanillic acid $C_8H_8O_4$ (168.15). **Pharm:** Cytotoxic inactive (MCF7, $IC_{50} > 100\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (1.5\pm 0.2)\mu\text{mol/L}$; K562, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.07\pm 0.01)\mu\text{mol/L}$; Bowes, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.45\pm 0.01)\mu\text{mol/L}$; T24S, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (5.8\pm 0.6)\mu\text{mol/L}$; A549, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (15.8\pm 6.7)\mu\text{mol/L}$). **Source:** KAI KOU JIAN *Tupistra chinensis* (underground part), XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 4676, 5288.

**10382 2-Hydroxy-4-methoxybenzoic acid**

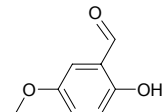
$C_8H_8O_4$ (168.15). **Source:** DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.010%dw). **Ref:** 4767.

**10383 3-O-(4-Hydroxy-3-methoxybenzoyl)ceanothic acid**

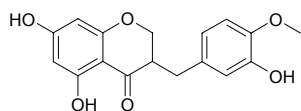
3-O-Vanillylceanothic acid $C_{38}H_{52}O_8$ (636.83). Colorless solid, mp 183–185°C. $[\alpha]_D^{27} = -22.0^\circ$ ($c = 0.229$, MeOH). **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, $IC_{50} = 3.7\mu\text{g/mL}$); antibacterial (*Mycobacterium tuberculosis*, MIC = 25 $\mu\text{g/mL}$). **Source:** JIAN PU ZHAI ZAO *Ziziphus cambodiana* (root cortex: yield = 0.0002%dw). **Ref:** 2091.

**10384 2-Hydroxy-5-methoxy-benzyldehyde**

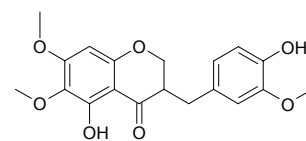
$C_8H_8O_3$ (152.15). **Source:** MAO GUO QI *Acer nikoense* (stem cortex). **Ref:** 4304.

**10385 3-(3-Hydroxy-4-methoxybenzyl)-5,7-dihydroxychroman-4-one**

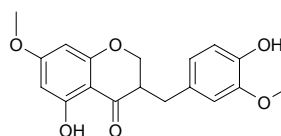
$C_{17}H_{16}O_6$ (316.31). White powder, mp 140–142°C. **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.

**10386 3-(4-Hydroxy-3-methoxybenzyl)-5-hydroxy-6,7-dimethoxychroman-4-one**

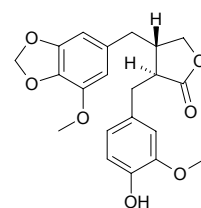
$C_{19}H_{20}O_7$ (360.37). Yellow oil, $[\alpha]_D^{25} = -10.7^\circ$ ($c = 0.56$, MeOH). **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.

**10387 3-(4-Hydroxy-3-methoxybenzyl)-5-hydroxy-7-methoxychroman-4-one**

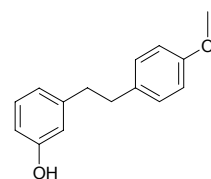
$C_{18}H_{18}O_6$ (330.34). Colorless oil. **Source:** *Scilla nervosa* (bulb). **Ref:** 2381.

**10388 (2S,3S)-2-(4-Hydroxy-3-methoxybenzyl)-3-(5-methoxy-3,4-methylenedioxybenzyl)butyrolactone**

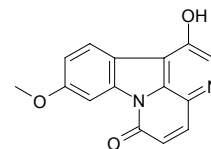
$C_{21}H_{22}O_7$ (386.41). Colorless gum, $[\alpha]_D^{25} = +26.4^\circ$ ($c = 0.293$, $CHCl_3$). **Source:** MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.0003%). **Ref:** 4733.

**10389 3-Hydroxy-4'-methoxybibenzyl**

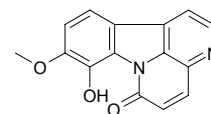
$C_{15}H_{16}O_2$ (228.29). **Source:** *Plagiochila rutilans*. **Ref:** 5144.

**10390 1-Hydroxy-9-methoxycanthin-6-one**

$C_{15}H_{10}N_2O_3$ (266.26). Yellow powder (MeOH), mp 235–237°C. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000036%dw), *Eurycoma* sp. **Ref:** 4556, 4728.

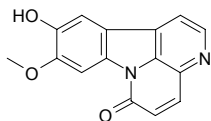
**10391 8-Hydroxy-9-methoxycanthin-6-one**

$C_{15}H_{10}N_2O_3$ (266.26). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000024%dw), *Eurycoma* sp. **Ref:** 4556, 4728.

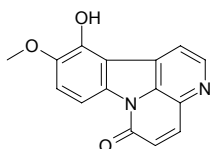


10392 10-Hydroxy-9-methoxycanthin-6-one

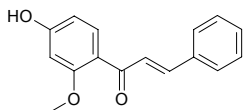
$C_{15}H_{10}N_2O_3$ (266.26). Source: *Eurycoma* sp. Ref: 4556.

**10393 11-Hydroxy-10-methoxycanthin-6-one**

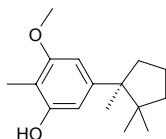
$C_{15}H_{10}N_2O_3$ (266.26). Source: *Eurycoma* sp. Ref: 4556.

**10394 4'-Hydroxy-2'-methoxychalcone**

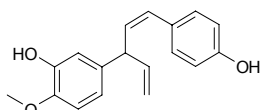
$C_{16}H_{14}O_3$ (254.29). Pharm: Testosterone 5 α -reductase inhibitor (25 μ g/mL, InRt = 19.5%, 50 μ g/mL, InRt = 20.7%, 100 μ g/mL, InRt = 22.8%; control Glycyrrhetic acid, 25 μ g/mL, InRt = 31.7%, 50 μ g/mL, InRt = 64.7%, 100 μ g/mL, InRt = 87.1%). Source: JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0013%dw). Ref: 4716.

**10395 2-Hydroxy-4-methoxycuparene**

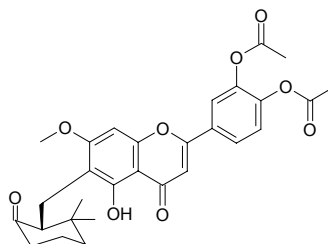
$C_{16}H_{24}O_2$ (248.37). Oil, $[\alpha]_D^{20} = -52.2^\circ$ ($c = 1.8$, MeOH). Source: *Bazzania decrescens*. Ref: 4458.

**10396 3'-Hydroxy-4'-methoxy-4'-dehydroxynyasol**

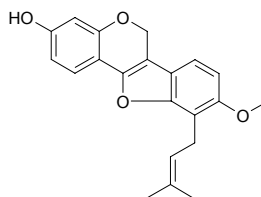
1-[4-Hydroxyphenoxy]-3-[3-hydroxy-4-methoxyphenyl]penta-1,4-diene
 $C_{18}H_{18}O_3$ (282.34). White powder, $[\alpha]_D^{20} = +85.8^\circ$ ($c = 0.09$, MeOH). Pharm: Cytotoxic (*in vitro*, Lu1, $IC_{50} = 7.2\mu$ g/mL (25.5 μ mol/L), LNCaP, $IC_{50} = 11.6\mu$ g/mL (41.1 μ mol/L), Col2, $IC_{50} = 11.7\mu$ g/mL (41.4 μ mol/L), HUVEC, $IC_{50} = 16.4\mu$ g/mL (58.1 μ mol/L), KB, $IC_{50} = 9\mu$ g/mL (31.9 μ mol/L), HOG.R5, $IC_{50} = 3.4\mu$ g/mL (12 μ mol/L), control Ellipticine: Lu1, $IC_{50} = 0.02\mu$ g/mL (0.08 μ mol/L), LNCaP, $IC_{50} = 0.8\mu$ g/mL (3.25 μ mol/L), Col2, $IC_{50} = 0.3\mu$ g/mL (1.22 μ mol/L), HUVEC, $IC_{50} = 0.09\mu$ g/mL (0.37 μ mol/L), KB, $IC_{50} = 0.04\mu$ g/mL (0.16 μ mol/L), HOG.R5, $IC_{50} = 0.02\mu$ g/mL (0.08 μ mol/L)). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.00005%dw). Ref: 3009.

**10397 5-Hydroxy-7-methoxy-3',4'-diacetoxy-6-(6,6-dimethyl-2-oxocyclohexylmethyl)flavone**

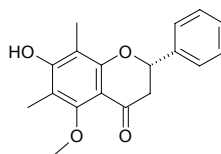
$C_{29}H_{30}O_9$ (522.56). Pale yellow powder. Source: RU DI WU GONG *Helminthostachys zeylanica* (rhizome). Ref: 3484.

**10398 3-Hydroxy-9-methoxy-10-(3,3-dimethylallyl)pteroicarpene**

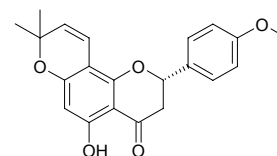
$C_{21}H_{20}O_4$ (336.39). Amorphous powder. Pharm: Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, $IC_{50} = (20.6\pm 3.2)\mu$ mol/L, control Quinine, $IC_{50} = ((0.21\pm 0.01)\mu$ mol/L; D6 strain, $IC_{50} = (21.9\pm 3.3)\mu$ mol/L, Quinine, $IC_{50} = ((0.042\pm 0.002)\mu$ mol/L). Source: A BI XI NI YA CI TONG *Erythrina abyssinica* (root cortex). Ref: 5420.

**10399 7-Hydroxy-5-methoxy-6,8-dimethylflavanone**

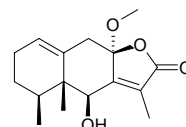
$C_{18}H_{18}O_4$ (298.34). $[\alpha]_D^{25} = -2.1^\circ$ ($c = 0.4$, acetone). Source: YANG PU TAO YE *Syzygium samarangense*. Ref: 4100.

**10400 5-Hydroxy-4'-methoxy-2'',2''-dimethylpyrano-(7,8:6'',5'')flavanone**

$C_{21}H_{20}O_5$ (352.39). Colorless powder, mp 153~155 $^\circ$ C, $[\alpha]_D^{20} = -48^\circ$ ($c = 0.1$, $CHCl_3$). Source: ZHEN YE XUE TONG *Macaranga conifera*. Ref: 1929.

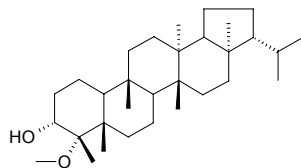
**10401 6 β -Hydroxy-8 α -methoxyeremophila-1(10),7(11)-dien-12,8 β -olide**

$C_{16}H_{22}O_4$ (278.35). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

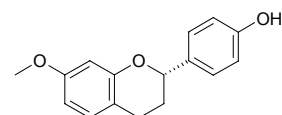


10402 3 α -Hydroxy-4-methoxyfilicane

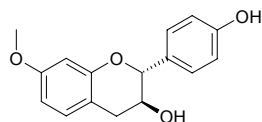
C₃₁H₅₄O₂ (458.77). mp 198–204°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum* (fresh frond). Ref: 5187.

**10403 4'-Hydroxy-7-methoxyflavan**

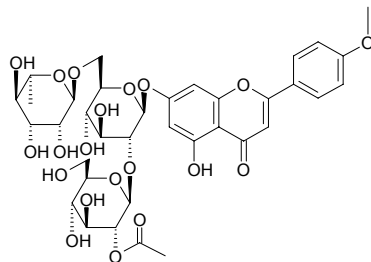
C₁₆H₁₆O₃ (256.30). Colorless prisms (hexane–acetone), mp 115–117°C, [α]_D²⁶ = –12° (*c* = 0.1, MeOH). Pharm: Cytotoxic (Meth-A cell, ED₅₀ > 10 μg/mL, control Adriamycin, ED₅₀ < 0.09 μg/mL; LLC cell, ED₅₀ > 10 μg/mL, control Adriamycin, ED₅₀ = 0.1 μg/mL). Source: RI BEN WEN SHU LAN *Crinum asiaticum* var. *japonicum* (bulb). Ref: 4125.

**10404 4'-Hydroxy-7-methoxyflavan-3-ol**

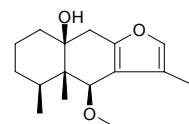
C₁₆H₁₆O₄ (272.30). Amorphous powder. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum* (bulb). Ref: 3997.

**10405 5-Hydroxy-4-methoxy-flavone-7-O- α -L-rhamnopyranosyl-(1 \rightarrow 6)[2-O-acetyl- β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranoside**

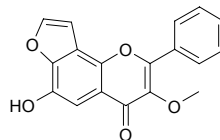
C₃₆H₄₄O₂₀ (796.74). White powder crystals, mp 246–248°C. Source: YAN XIANG JU *Chrysanthemum lavandulifolium*. Ref: 388.

**10406 10 β -Hydroxy-6 β -methoxy-furanoeremophilane**

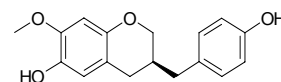
C₁₆H₂₄O₃ (264.37). Source: LIAN PENG CAO *Farfugium japonicum*. Ref: 6.

**10407 6-Hydroxy,3-methoxy furo[8,7:4'',5'']flavone**

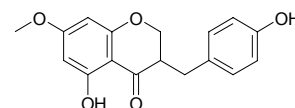
C₁₈H₁₂O₅ (308.29). Yellow crystals (DMSO), mp 283°C. Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3767.

**10408 6-Hydroxy-7-methoxy-3-(4'-hydroxybenzyl) chroman**

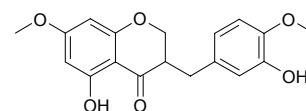
C₁₇H₁₈O₄ (286.33). Colorless short columnar crystals, mp 195–197°C (CHCl₃). Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 414.

**10409 5-Hydroxy-7-methoxy-3-(4'-hydroxybenzyl)-4-chromanone**

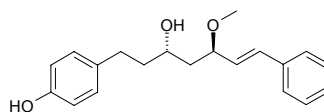
C₁₇H₁₆O₅ (300.31). White powder, mp 160–162°C, [α]_D²⁵ = –54.6° (*c* = 0.78, MeOH). Source: HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). Ref: 3368.

**10410 5-Hydroxy-7-methoxy-3-(3-hydroxy-4-methoxybenzyl)-chroman-4-one**

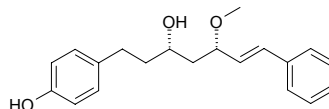
C₁₈H₁₈O₆ (330.34). Pale-yellow crystals, [α]_D = –36° (*c* = 0.55, MeOH). Source: *Scilla nervosa*. Ref: 2328.

**10411 (3S,5R)-3-Hydroxy-5-methoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene**

C₂₀H₂₄O₃ (312.41). Light brown amorphous solid, [α]_D²⁵ = +21.3° (*c* = 0.13, MeOH). Pharm: Cytotoxic inactive (Colon26-L5, HT1080, 100 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00018%). Ref: 3042.

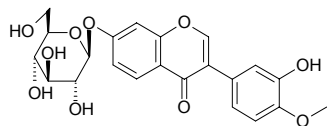
**10412 (3S,5S)-3-Hydroxy-5-methoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene**

C₂₀H₂₄O₃ (312.41). Light brown amorphous solid, [α]_D²⁵ = +21.0° (*c* = 0.08, MeOH). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 86.4 μmol/L; HT1080, ED₅₀ > 100 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00015%). Ref: 3042.

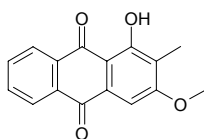


10413 3'-Hydroxy-4'-methoxyisoflavone-7-O-β-D-glucoside

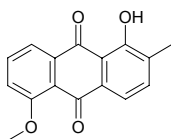
$C_{22}H_{22}O_{10}$ (446.41). Source: MENG GU HUANG QI *Astragalus mongholicus*.
Ref: 2, 660.

**10414 1-Hydroxy-3-methoxy-2-methylanthraquinone**

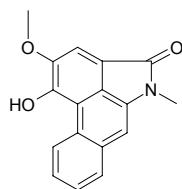
$C_{16}H_{12}O_4$ (268.27). Pharm: Cytotoxic (KB, $ED_{50} > 25\mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.12\mu\text{g/mL}$; Hep3B, $ED_{50} > 25\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.14\mu\text{g/mL}$; Colon205, $ED_{50} > 25\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.10\mu\text{g/mL}$; HeLa, $ED_{50} = 24.5\mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.11\mu\text{g/mL}$).
Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**10415 1-Hydroxy-5-methoxy-2-methylanthraquinone**

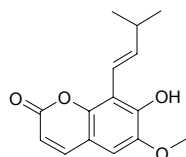
$C_{16}H_{12}O_4$ (268.27). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**10416 4-Hydroxy-3-methoxy-N-methylaristolactam**

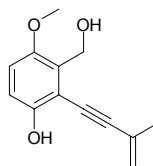
$C_{17}H_{13}NO_3$ (279.30). Source: TAI WAN HU JIAO *Piper taiwanense* (stem).
Ref: 4938.

**10417 7-Hydroxy-6-methoxy-8-(3-methylbut-2-enyl)coumarin**

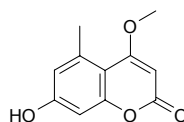
$C_{15}H_{16}O_4$ (260.29). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**10418 2-Hydroxy-5-methoxy-6-(3-methylbut-3-en-1-ynyl)benzylalcohol**

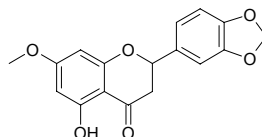
$C_{13}H_{14}O_3$ (218.25). Source: MAO REN GE JUN *Stereum hirsutum*. Ref: 3930.

**10419 7-Hydroxy-4-methoxy-5-methylcoumarin**

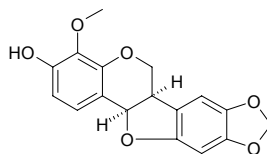
[41680-12-0] $C_{11}H_{10}O_4$ (206.20). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 2.

**10420 5-Hydroxy-7-methoxy-3',4'-methylenedioxy isoflavone**

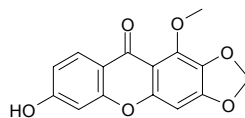
$C_{17}H_{14}O_6$ (314.30). Colorless needles (MeOH), mp 232–234°C. Source: JIN QUE GEN *Caragana sinica*. Ref: 489.

**10421 (-)-3-Hydroxy-4-methoxy-8-9-methylenedioxy pterocarpan**

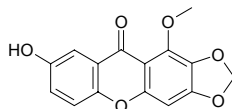
[69626-65-9] $C_{17}H_{14}O_6$ (314.29). Acicular crystals (methanol), mp 156–159°C, $[\alpha]_D^{20} = -166.6^\circ$ ($c = 0.12$, chloroform). Pharm: Induces quinone reductase (mus hepatic cells Hepalcic $7\mu\text{mol/L}$, CD 14.7 $\mu\text{mol/L}$). Source: HUI YE GEN *Tephrosia purpurea*. Ref: 1057, 1101.

**10422 6-Hydroxy-1-methoxy-2,3-methylenedioxyxanthone**

$C_{15}H_{10}O_6$ (286.24). Yellow needles, mp 228–230°C. Source: JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*]. Ref: 2517.

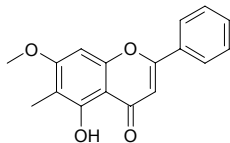
**10423 7-Hydroxy-1-methoxy-2,3-methylenedioxy xanthone**

$C_{15}H_{10}O_6$ (286.24). Light yellow acicular crystals (chloroform–methanol), mp 228–230°C. Source: HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 382.

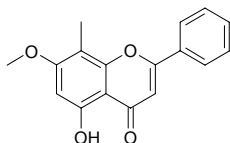


10424 5-Hydroxy-7-methoxy-6-methylflavone

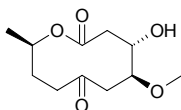
[55969-57-8] C₁₇H₁₄O₄ (282.30). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**10425 5-Hydroxy-7-methoxy-8-methylflavone**

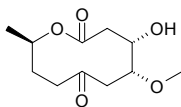
[14004-48-9] C₁₇H₁₄O₄ (282.30). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**10426 4-Hydroxy-5-methoxy-10-methyl-oxecane-2,7-dione A**

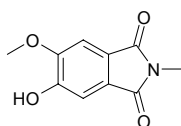
C₁₁H₁₈O₅ (230.26). Colorless gum, [α]_D²⁹ = +59° (c 0.017, MeOH). Pharm: Antimalarial inactive (*Plasmodium falciparum* K1, 20 μ g/mL; control Dihydroartemisinin, IC₅₀ = 1.2ng/mL). Source: YONG CHONG CAO *Cordyceps militaris*. Ref: 4784.

**10427 4-Hydroxy-5-methoxy-10-methyl-oxecane-2,7-dione B**

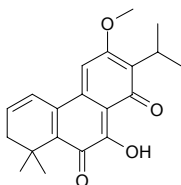
C₁₁H₁₈O₅ (230.26). Colorless gum, [α]_D²⁹ = -67° (c 0.015, MeOH). Pharm: Antimalarial inactive (*Plasmodium falciparum* K1, 20 μ g/mL; control Dihydroartemisinin, IC₅₀ = 1.2ng/mL). Source: YONG CHONG CAO *Cordyceps militaris*. Ref: 4784.

**10428 6-Hydroxy-5-methoxy-N-methylphthalimide**

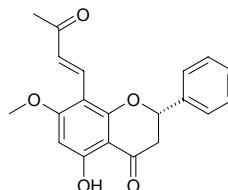
C₁₀H₉NO₄ (207.19). Light yellow needles (CHCl₃), mp 213–215°C. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3792.

**10429 7-Hydroxy-12-methoxy-20-nor-abieta-1,5(10),7,9,12-pentaen-6,14-dione**

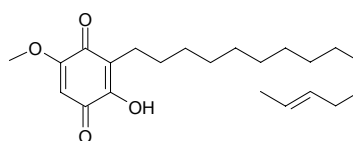
C₂₀H₂₂O₄ (326.40). Source: TU ER QI SHU WEI CAO *Salvia cilicica*. Ref: 1930.

**10430 (2S)-5-Hydroxy-7-methoxy-8-[(E)-3-oxo-1-butenyl]flavanone**

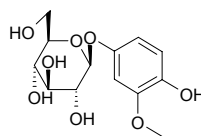
Anticancer Flavonoid PMV70P691-019 C₂₀H₁₈O₅ (338.36). White amorphous powder, mp 156–157°C, [α]_D²⁰ = -98° (c = 0.1, CHCl₃). Pharm: Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, IC₅₀ = 14.9 μ mol/L; control Sulforaphane, IC₅₀ = 11 μ mol/L)^[4718]; cytotoxic (quinone reductase induction assay in cultured Hepa1c17 mouse hepatoma cells)^[5038]. Source: DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00019%dw). Ref: 4718, 5038.

**10431 2-Hydroxy-5-methoxy-3-pentadecenyl benzoquinone**

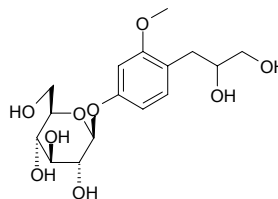
[82380-21-0] C₂₂H₃₄O₄ (362.51). mp 67°C. Source: ZI JIN NIU *Ardisia japonica*. Ref: 6.

**10432 4-Hydroxy-3-methoxyphenol β -D-glucopyranoside**

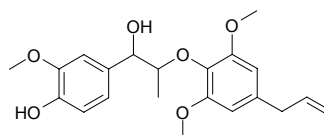
Tachioside C₁₃H₁₈O₈ (302.28). Source: GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome), HU ZHANG *Polygonum cuspidatum*. Ref: 4186, 4310.

**10433 1'-(4-Hydroxy-2-methoxyphenyl)propane-2',3-diol 4-O- β -D-glucopyranoside**

C₁₆H₂₄O₉ (360.36). Amorphous powder, [α]_D²⁴ = -29° (c = 1.1, MeOH). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.

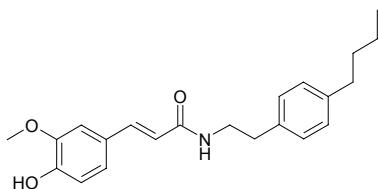
**10434 erythro-1-(4-Hydroxy-3-methoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy) propan-1-ol**

C₂₁H₂₆O₆ (374.44). Colorless amorphous, [α]_D²⁴ = +3° (c = 0.05, CHCl₃). Pharm: Antioxidant (DPPH scavenger). Source: FENG CHAO CAO *Leucas aspera* (whole herb). Ref: 4344.

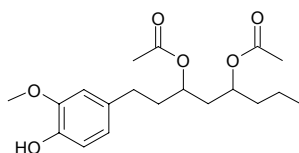


10435 7'-[4'-Hydroxy,3'-methoxyphenyl]-N-[4-butylphenyl]ethyl]propanamide

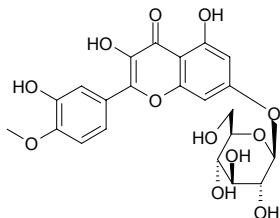
$C_{22}H_{27}NO_3$ (353.47). Colorless solid. **Pharm:** α -Glucosidase inhibitor (type VI, $IC_{50} = 45.67\mu\text{mol/L}$, control 1-Deoxyojirimycin, $IC_{50} = 300\mu\text{mol/L}$); thrombin inhibitor inactive; β -glucuronidase inhibitor inactive. **Source:** YUN NAN TU SI ZI *Cuscuta reflexa*. **Ref:** 4155.

**10436 1-(4-Hydroxy-3-methoxyphenyl)-3,5-diacetoxyoctane**

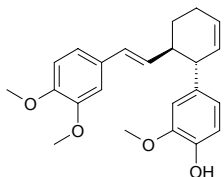
$C_{19}H_{28}O_6$ (352.43). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**10437 2-(3-Hydroxy-4-methoxyphenyl)-3,5-dihydroxy-7-O- β -D-glucopyranoside-4H-1-benzopyran-4-one**

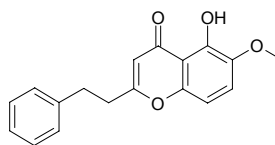
$C_{22}H_{22}O_{12}$ (478.41). **Pharm:** α -Glucosidase inhibitor (type VI, $IC_{50} = 0.24\text{mmol/L}$, control 1-Deoxyojirimycin, $IC_{50} = 0.3\text{mmol/L}$); thrombin inhibitor inactive; β -glucuronidase inhibitor inactive. **Source:** YUN NAN TU SI ZI *Cuscuta reflexa*. **Ref:** 4155.

**10438 (±)-trans-3-(4-Hydroxy-3-methoxyphenyl)-4-[(E)-3,4-dimethoxystyryl]cyclohex-1-ene**

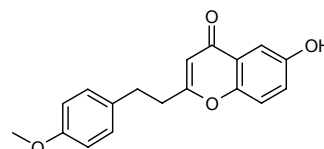
$C_{23}H_{26}O_4$ (366.46). **Pharm:** Cytotoxic (A549, $IC_{50} = 23.0\mu\text{mol/L}$, control Ellipticine, $IC_{50} = 0.8\mu\text{mol/L}$; Col2, $IC_{50} = 30.6\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.6\mu\text{mol/L}$; SNU638, $IC_{50} = 18.0\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.6\mu\text{mol/L}$; HT1080, $IC_{50} = 21.3\mu\text{mol/L}$, Ellipticine, $IC_{50} = 1.2\mu\text{mol/L}$)^[4081], COX-2 inhibitor (RAW264.7 cells, LPS-induced PGE₂ production, $IC_{50} = 3.64\mu\text{mol/L}$, control Celecoxib, $IC_{50} = 0.52\text{nmol/L}$)^[4532]. **Source:** YE JIANG *Zingiber cassumunar* (rhizome). **Ref:** 4081, 4532.

**10439 5-Hydroxy-6-methoxy-2-(2-phenylethyl)chromone**

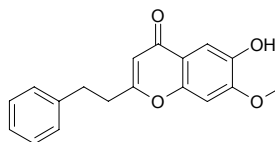
$C_{18}H_{16}O_4$ (296.33). Yellow needles, mp 129°C. **Source:** BAI MU XIANG *Aquilaria sinensis* (Withered wood). **Ref:** 4339.

**10440 6-Hydroxy-2-[2-(4'-methoxyphenyl)ethyl] chromone**

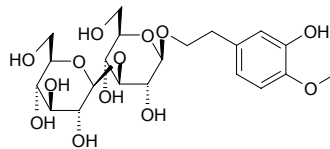
$C_{18}H_{16}O_4$ (296.33). Colorless lump crystals, mp 167~168°C. **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 140, 660.

**10441 6-Hydroxy-7-methoxy-2-(2-phenylethyl)chromone**

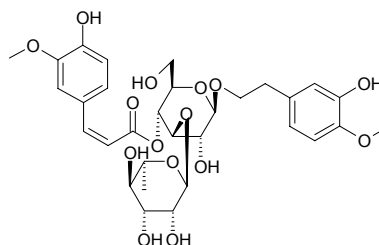
$C_{18}H_{16}O_4$ (296.33). Colorless needles, mp 187~188°C (MeOH). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 4173.

**10442 2-(3-Hydroxy-4-methoxyphenyl)-ethyl-O- β -D-glucopyranosyl (1→3)- β -D-glucopyranoside**

$C_{21}H_{32}O_{13}$ (492.48). White amorphous powder, mp 202~204°C. **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 112.5\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 195.0\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$)^[4289]. **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4289, 4817.

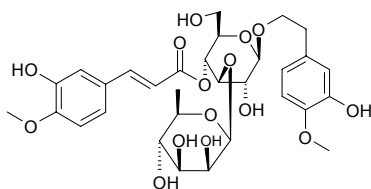
**10443 2-(3-Hydroxy-4-methoxyphenyl) ethyl O- α -L-rhamnopyranosyl-(1→3)-(4-O-cis-feruloyl)- β -D-glucopyranoside**

$C_{31}H_{40}O_{15}$ (652.66). **Source:** ZI YE *Catalpa ovata* (fallen leaf). **Ref:** 4290.



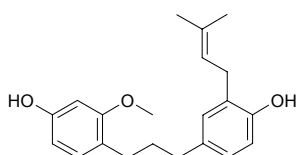
10444 2-(3-Hydroxy-4-methoxyphenyl)-ethyl-1-O- α -L-rhamnosyl-(1 \rightarrow 3)- β -D-(4-feruloyl)-glucoside

$C_{31}H_{40}O_{15}$ (652.66). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.



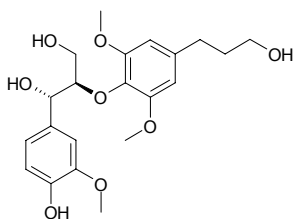
10445 1-(4-Hydroxy-2-methoxyphenyl)-3-(4-hydroxy-3-prenylphenyl)propane

$C_{21}H_{26}O_3$ (326.44). Brown powder, mp 85–86°C. Pharm: Aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.



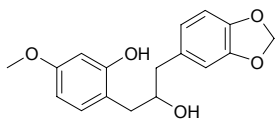
10446 1-(4'-Hydroxy-3'-methoxyphenyl)-2-[4''-(3-hydroxypropyl)-2'',6''-dimethoxyphenoxy]propane-1,3-diol

$C_{21}H_{28}O_8$ (408.45). $[\alpha]_D^{20} = +3.3^\circ$ ($c = 0.61$, MeOH). Pharm: Cytotoxic inactive (100 $\mu\text{g/mL}$: KB, LNCaP, and Col2 cells)^[5336]. Source: YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 5336.



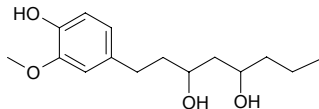
10447 1-(2-Hydroxy-4-methoxyphenyl)-3-(3,4-methylenedioxyphenyl)propan-2-ol

$C_{17}H_{18}O_5$ (302.33). Light yellow crystals (C_6H_6 -EtOAc), mp 116°C, $[\alpha]_D^{25} = -4.8^\circ$ ($c = 1.043$, MeOH). Source: MENG MAI ROU DOU KOU *Myristica malabarica* (heartwood). Ref: 3906.



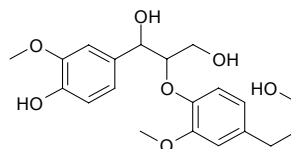
10448 1-(4-Hydroxy-3-methoxyphenyl)-3,5-octane-diol

$C_{15}H_{24}O_4$ (268.36). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.



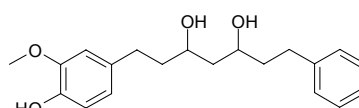
10449 1-(4-Hydroxy-3-methoxyphenyl)-2-[4-(ω -hydroxypropyl)-2-methoxyphenoxy]propane-1,3-diol

$C_{20}H_{26}O_7$ (378.43). Source: HOU PO *Magnolia officinalis*. Ref: 2.



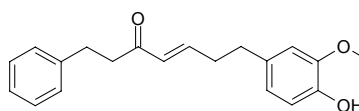
10450 1-(4-Hydroxy-3-methoxyphenyl)-7-phenyl-3,5-heptanediol

$C_{20}H_{26}O_4$ (330.43). Yellow liquid, $[\alpha]_D^{25} = +6.87^\circ$ ($c = 0.40$, $CHCl_3$). Pharm: Antiemetic (young male chicks, copper sulfate induced emesis assay, 50mg/kg, $InRt = 45.7\%$, $p < 0.001$)^[4649]. Source: GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.00031%dw). Ref: 4649.



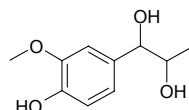
10451 7-(4''-Hydroxy-3''-methoxyphenyl)-1-phenyl-hept-4-en-3-one

$C_{20}H_{22}O_3$ (310.40). Colorless oleaginous liquid. Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 435.



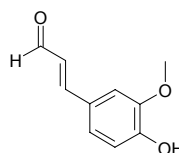
10452 1-(4-Hydroxy-3-methoxyphenyl)propan-1,2-diol

$C_{10}H_{14}O_4$ (198.22). Colorless oil. Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.



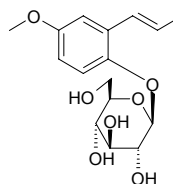
10453 3-(4-Hydroxy-3-methoxyphenyl)-2-propenal

Coniferaldehyde [20649-42-7] $C_{10}H_{10}O_3$ (178.19). Light-yellow needles (pet. ether), mp 84°C. Source: Occurs in wood. Ref: 1521.



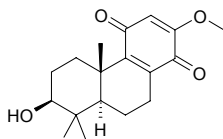
10454 (E)-1'-(2-Hydroxy-5-methoxyphenyl)propene β -D-glucopyranoside

$C_{16}H_{22}O_7$ (326.35). Amorphous powder, $[\alpha]_D^{25} = -34^\circ$ ($c = 0.2$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 3402.

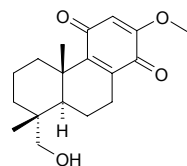


10455 3 β -Hydroxy-13-methoxy-8,12-podocarpadiene-11,14-dione

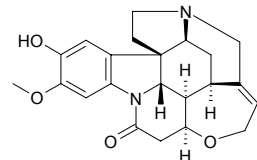
C₁₈H₂₄O₄ (304.39). Yellow powder, mp 184~186°C, [α]_D²⁴ = +11.1° (c = 0.45, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4113.

**10456 18-Hydroxy-13-methoxy-8,12-podocarpadiene-11,14-dione**

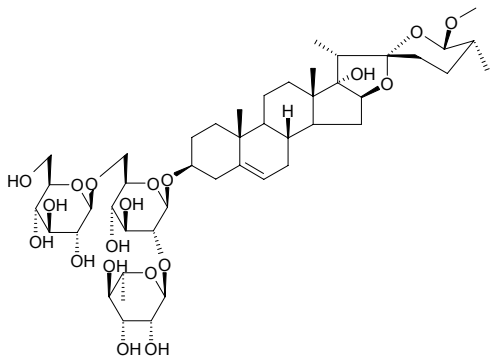
C₁₈H₂₄O₄ (304.39). Yellow powder, [α]_D²⁴ = +11.5° (c = 0.40, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4113.

**10457 2-Hydroxy-3-methoxystrychnine**

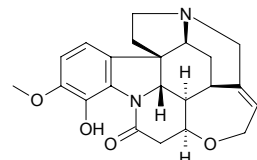
C₂₂H₂₄N₂O₄ (380.45). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2.

**10458 (25R,26R)-17 α -Hydroxy-26-methoxyspirost-5-en-3 β -yl-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside**

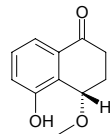
[244160-63-2] C₄₆H₇₄O₁₉ (931.09). Amorphous solid, [α]_D²⁷ = -42.1° (c = 0.14, MeOH:H₂O = 1:1). Source: QING LIANG BAI HE *Lilium candidum*. Ref: 2303.

**10459 4-Hydroxy-3-methoxystrychnine**

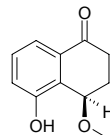
C₂₂H₂₄N₂O₄ (380.45). Source: CHANG ZI MA QIAN *Strychnos wallichiana*, MA QIAN ZI *Strychnos nux-vomica*. Ref: 2, 660.

**10460 (-)-5-Hydroxy-4-methoxy-1-tetralone**

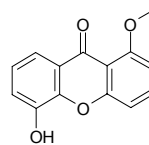
(4S)-5-Hydroxy-4-methoxy- α -tetralone C₁₁H₁₂O₃ (192.22). Colorless needles (CH₂Cl₂-MeOH), mp 110~112°C, [α]_D²⁶ = -27.8° (c = 0.088, EtOH); amorphous powder, [α]_D = 0° (CHCl₃). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit), HUANG QI II *Engelhardia roxburghiana* (root). Ref: 4492, 5059.

**10461 (4R)-5-Hydroxy-4-methoxy- α -tetralone**

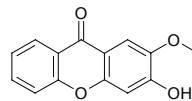
C₁₁H₁₂O₃ (192.22). Amorphous powder, [α]_D = 0° (CHCl₃). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). Ref: 4492.

**10462 5-Hydroxy-1-methoxyxanthone**

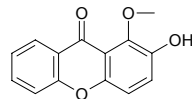
C₁₄H₁₀O₄ (242.23). Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 7.28 μ g/mL, control Mithramycin ED₅₀ = 0.06 μ g/mL, HT29 ED₅₀ = 4.74 μ g/mL, control Mithramycin ED₅₀ = 0.08 μ g/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. Ref: 4094.

**10463 6-Hydroxy-7-methoxyxanthone**

C₁₄H₁₀O₄ (242.23). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26, MIC₈₀ = 16 μ g/mL, control Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus flavus* IHEM37.19, MIC₈₀ = 16 μ g/mL, Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus niger* IHEM2951, MIC₈₀ = 31 μ g/mL, Amphotericin B, MIC₈₀ = 16 μ g/mL; *Aspergillus terreus* 5029.2000, MIC₈₀ = 125 μ g/mL; Amphotericin B, MIC₈₀ = 16 μ g/mL; *Candida albicans* ATCC663.90, MIC₈₀ = 31 μ g/mL; Amphotericin B, MIC₈₀ = 1 μ g/mL). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). Ref: 4995.

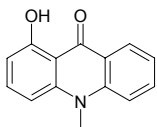
**10464 7-Hydroxy-8-methoxyxanthone**

C₁₄H₁₀O₄ (242.23). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26, MIC₈₀ = 31 μ g/mL, control Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus flavus* IHEM37.19, MIC₈₀ = 31 μ g/mL, Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus niger* IHEM2951, MIC₈₀ = 62 μ g/mL, Amphotericin B, MIC₈₀ = 16 μ g/mL; *Aspergillus terreus* 5029.2000, MIC₈₀ = 250 μ g/mL; Amphotericin B, MIC₈₀ = 16 μ g/mL; *Candida albicans* ATCC663.90, MIC₈₀ = 62 μ g/mL; Amphotericin B, MIC₈₀ = 1 μ g/mL). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). Ref: 4995.

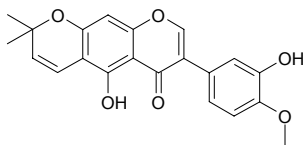


10465 1-Hydroxy-10-methylacridone

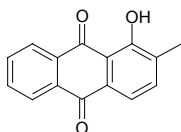
$C_{14}H_{11}NO_2$ (225.25). Yellow amorphous powder. **Pharm:** Antileishmanial (*Leishmania major* promastigote, 10 μ mol/L, survival = (90.0 \pm 5.0)%, 1 μ mol/L, survival = (95.5 \pm 3.8)%, control Amphotericin B, 10 μ mol/L, survival = (0.2 \pm 0.04)%, 1 μ mol/L, survival = (71.9 \pm 4.4)%); antifungal (silica gel TLC, *Cladosporium cucumerinum*, MIA = 10 μ g, control Nystatin, MIA = 0.2 μ g). **Source:** *Thamnosma rhodesica* (root). **Ref:** 3797.

**10466 3'-Hydroxy-4'-O-methylalpinumisoflavone**

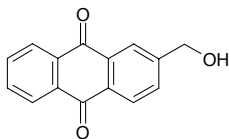
$C_{21}H_{18}O_6$ (366.37). Yellowish crystals (petrol), mp 151~153°C. **Source:** *Millettia thonningii*. **Ref:** 2326.

**10467 1-Hydroxy-2-methyl-anthraquinone**

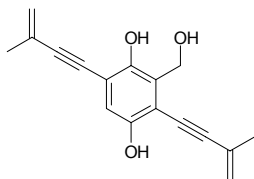
[6268-09-3] $C_{15}H_{10}O_3$ (238.25). mp 184~185°C. **Pharm:** Cytotoxic (KB, ED_{50} > 25 μ g/mL, control Doxorubicin, ED_{50} = 0.12 μ g/mL; Hep3B, ED_{50} > 25 μ g/mL, control Doxorubicin, ED_{50} = 0.14 μ g/mL; Colon205, ED_{50} > 25 μ g/mL, control Doxorubicin, ED_{50} = 0.10 μ g/mL; HeLa, ED_{50} > 25 μ g/mL, control Doxorubicin, ED_{50} = 0.11 μ g/mL)^[4369]. **Source:** BA JI TIAN *Morinda officinalis*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), YANG JIAO TENG *Morinda umbellata*. **Ref:** 6, 228, 4369.

**10468 2-Hydroxymethylanthraquinone**

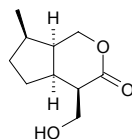
[17241-59-7] $C_{15}H_{10}O_3$ (238.25). **Pharm:** Cytotoxic (mus, P_{388}). **Source:** BAI YAN TENG *Morinda parvifolia*. **Ref:** 658.

**10469 3-(Hydroxymethyl)-2,5-bis(3-methylbut-3-en-1-ynyl)benzene-1,4-diol**

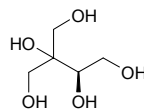
$C_{17}H_{16}O_3$ (268.33). **Source:** MAO REN GE JUN *Stereum hirsutum*. **Ref:** 3930.

**10470 (4R)-4-Hydroxymethylboschnialactone**

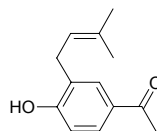
$C_{10}H_{16}O_3$ (184.24). Colorless needles; mp 46~47 °C (CHCl₃), $[\alpha]_D^{23}$ = -35.8° (c = 0.1, MeOH) **Source:** CAO CONG RONG *Boschniakia rossica* (whole herb). **Ref:** 4266.

**10471 (3R)-2-Hydroxymethylbutane-1,2,3,4-tetrol**

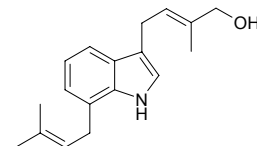
$C_5H_{12}O_5$ (152.15). Colorless syrup, $[\alpha]_D^{22}$ = +4°. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit), SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 3525, 4177.

**10472 4-Hydroxy-3-(3-methyl-2-butenyl)acetophenone**

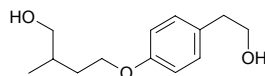
$C_{13}H_{16}O_2$ (204.27). **Pharm:** Anti-inflammatory (inhibits arachidonic acid metabolism, calcium ionophore-stimulated leukocytes, inhibits LTB₄ production, concentration-dependent manner, IC_{50} = 24 μ mol/L). **Source:** YI DA LI LA JU *Helichrysum italicum* **Ref:** 4415.

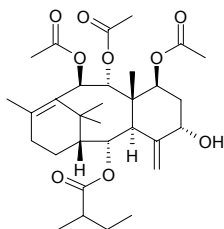
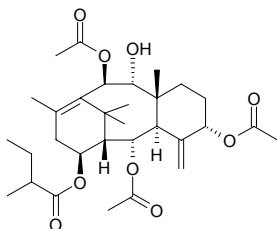
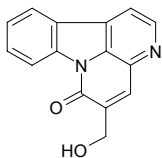
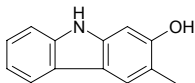
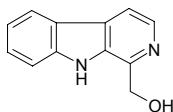
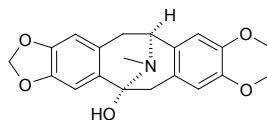
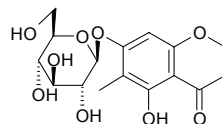
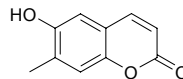
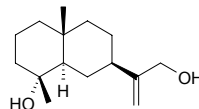
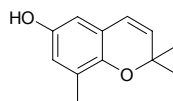
**10473 (E)-3-(3-Hydroxymethyl-2-butenyl)-7-(3-methyl-2-butenyl)-1H-indole**

$C_{18}H_{23}NO$ (269.39). Colorless oil. **Pharm:** Anti-HIV (CC_{50} = 13.66 μ g/mL, IC_{50} = 1.17 μ g/mL, SI = 11.68; control AZT, CC_{50} = 794.2 μ g/mL, IC_{50} = 0.131 μ g/mL, SI = 6100)^[5266]. **Source:** MENG DA NA SHAN XIAO JU *Glycosmis montana* (twig and leaf). **Ref:** 5266.

**10474 4'-(4''-Hydroxy-3''-methylbutyloxy)-2-phenylethanol**

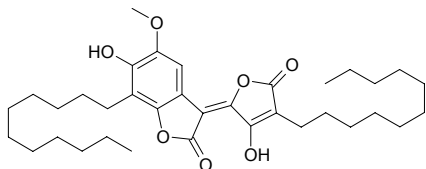
$C_{13}H_{20}O_3$ (224.30). White amorphous powder, $[\alpha]_D^{23}$ = -37° (c = 0.1, MeOH). **Source:** *Fagara xanthoxyloides*. **Ref:** 5385.



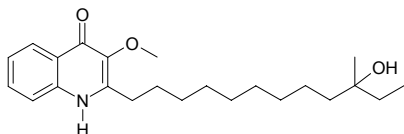
10475 5 α -Hydroxy-2 α -(α -methylbutyryl)-oxy-7 β ,9 α ,10 β -triacetoxy-4(20),11-taxadieneC₃₁H₄₆O₉ (562.71). [Source](#): JIANG GUO ZI SHAN *Taxus baccata*. [Ref](#): 662.**10476 9 α -Hydroxy-14 β -(2-methylbutyryl)-oxy-2 α ,5 α ,10 β -tri acetoxy-taxa-4(20),11-diene**C₃₁H₄₆O₉ (562.71). [Source](#): MEI LI HONG DOU SHAN *Taxus mairei*. [Ref](#): 662.**10477 5-Hydroxymethylcanthin-6-one**C₁₅H₁₀N₂O₂ (250.26). [Source](#): CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000014%dw), *Eurycoma* sp. [Ref](#): 4556, 4728.**10478 2-Hydroxy-3-methylcarbazole**3-Methylcarbazol-2-ol [24224-30-4] C₁₃H₁₁NO (197.34). [Source](#): SHAN HUANG PI *Clausena excavata*. [Ref](#): 703.**10479 1-Hydroxymethyl- β -carboline**[17337-22-3] C₁₂H₁₀N₂O (198.23). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.**10480 (-)-12-Hydroxy-O-methylcaryachine**C₂₀H₂₁NO₅ (355.39). Colorless needles (MeOH), mp 201~202°C, [α]_D = -171.5° (c = 0.1284, MeOH). [Source](#): HOU KE GUI *Cryptocarya chinensis* (wood). [Ref](#): 3092.**10481 5-Hydroxy-6-methylchromone-7-O- β -D-glucoside**C₁₆H₂₀O₉ (356.33). Colorless acicular crystals, mp 194~196°C. [Source](#): HUANG SHAN *Pseudotsuga sinensis*. [Ref](#): 2229.**10482 6-Hydroxy-7-methylcoumarin**C₁₀H₈O₃ (176.17). [Source](#): YIN CHEN HAO *Artemisia capillaris*. [Ref](#): 2.**10483 4 α -Hydroxy-4 β -methylidihydrocostol**C₁₅H₂₆O₂ (238.37). [Pharm](#): Cytotoxic (*in vitro*, HepG₂, CD₅₀ > 100 μ g/mL; HeLa, CD₅₀ > 100 μ g/mL; OVCAR-3, CD₅₀ > 100 μ g/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μ g/mL; HeLa, CD₅₀ = 5.2 μ g/mL; OVCAR-3, CD₅₀ = 3 μ g/mL). [Source](#): MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0048%dw). [Ref](#): 4720.**10484 6-Hydroxy-8-methyl-2,2-dimethyl-2H-benzopyran**C₁₂H₁₄O₂ (190.24). [Pharm](#): Antibacterial (*Escherichia coli* ATCC 11775, MIC > 750 μ g/mL, control Ciproflaxin, MIC = 0.63 μ g/mL; *Klebsiella pneumoniae* NCTC 9633, MIC > 187 μ g/mL, Ciproflaxin, MIC = 0.20 μ g/mL; *Enterococcus faecalis* ATCC 29212, MIC = 375 μ g/mL, Ciproflaxin, MIC = 6.25 μ g/mL; *Staphylococcus aureus* ATCC 6538, MIC = 131 μ g/mL, Ciproflaxin, MIC = 0.31 μ g/mL; *Bacillus cereus* ATCC 11778, MIC = 75 μ g/mL, Ciproflaxin, MIC = 2.5 μ g/mL; *Staphylococcus epidermidis* ATCC 2223, MIC = 187 μ g/mL, Ciproflaxin, MIC = 1.25 μ g/mL; *Cryptococcus neoformans* ATCC 90112, MIC = 75 μ g/mL, Ciproflaxin, MIC = 2.5 μ g/mL); antifungal (*Candida albicans* ATCC10231, MIC = 37 μ g/mL, control Amphotericin B, MIC = 1.25 μ g/mL). [Source](#): XUAN CHUI GEN NAI LA CAO *Gunnera perpensa* (stem and leaf). [Ref](#): 5314.

10485 10-Hydroxy-4-O-methyl-2,11-diundecylgompilactone

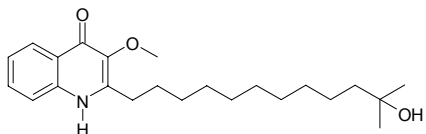
$C_{35}H_{52}O_7$ (584.8). Orange solid ($CHCl_3$), mp 103~105°C. **Pharm:** Cytotoxic inactive (*in vitro*, HL-60, $IC_{50} > 100\mu g/mL$; Bel7402, $IC_{50} > 100\mu g/mL$; HeLa, $IC_{50} > 100\mu g/mL$; U937, $IC_{50} > 100\mu g/mL$; control Colchicine, HL-60, $IC_{50} = 1.6\mu g/mL$; Bel7402, $IC_{50} = 0.4\mu g/mL$; HeLa, $IC_{50} = 0.1\mu g/mL$; U937, $IC_{50} = 0.1\mu g/mL$). **Source:** LA ZHU GUO *Aegiceras corniculatum* (stem and twig; yield = 0.000033%). **Ref:** 4746.

**10486 2-(10-Hydroxy-10-methyldodecanyl)-3-methoxy-4-quinolone**

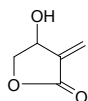
$C_{23}H_{35}NO_3$ (373.54). Colorless oil, $[\alpha]_D = +5.4^\circ$ ($c = 0.02$, $CHCl_3$). **Source:** *Spathelia excelsa* (leaf). **Ref:** 5297.

**10487 2-(11-Hydroxy-11-methyldodecanyl)-3-methoxy-4-quinolone**

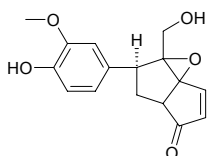
$C_{23}H_{35}NO_3$ (373.54). Colorless oil. **Source:** *Spathelia excelsa* (leaf). **Ref:** 5297.

**10488 β-Hydroxy-α-methylene-γ-butyrolactone**

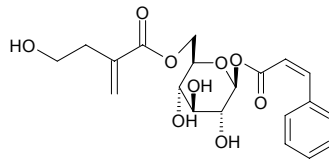
$C_5H_6O_3$ (114.10). **Source:** XIAO YE HUA *Spiraea prunifolia*. **Ref:** 6.

**10489 5-Hydroxymethyl-6-endo-(3'-methoxy-4'-hydroxyphenyl)-8-oxabicyclo[3.2.1]oct-3-en-2-one**

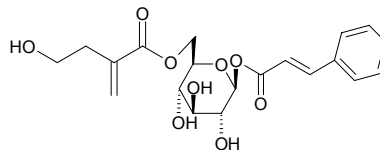
$C_{16}H_{16}O_5$ (288.30). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. **Ref:** 2.

**10490 6-O-(4'-Hydroxy-2'-methylene-butyryl)-1-O-cis-cinnamoyl-β-D-glucopyranose**

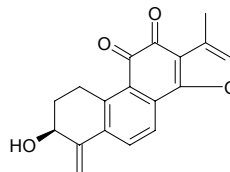
$C_{20}H_{24}O_9$ (408.41). **Source:** ZHEN ZHU XIU XIAN JU *Spiraea thunbergii*. **Ref:** 3782.

**10491 6-O-(4'-Hydroxy-2'-methylene-butyryl)-1-O-trans-cinnamoyl-β-D-glucopyranose**

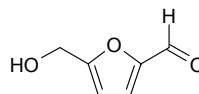
$C_{20}H_{24}O_9$ (408.41). **Source:** ZHEN ZHU XIU XIAN JU *Spiraea thunbergii*. **Ref:** 3782.

**10492 3-β-Hydroxymethylenetanshiquinone**

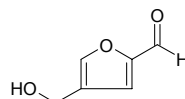
$C_{18}H_{14}O_4$ (294.31). Red acicular crystals (MeOH), mp 185~190°C, $[\alpha]_D = 0^\circ$ ($c = 0.05$, MeOH). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721.

**10493 5-Hydroxymethyl furaldehyde**

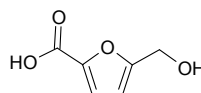
[67-47-0] $C_6H_6O_3$ (126.11). Brownish red liquid. **Source:** BEI CANG ZHU *Atractylodes chinensis*, DANG SHEN *Codonopsis pilosula*, DU ZHONG *Eucommia ulmoides*, PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00017%)^[4642], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (tuberoid: mean content of 3 origins = 0.032%)^[5508]. **Ref:** 2, 2510, 4642, 5508.

**10494 4-Hydroxymethyl-2-furaldehyde**

$C_6H_6O_3$ (126.11). Yellowish oleaginous substance. **Source:** CAO SU *Phlomis umbrosa*. **Ref:** 672.

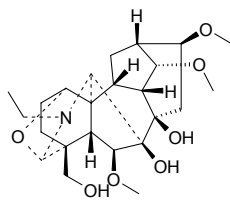
**10495 5-(Hydroxymethyl)-furan-2-carboxylic acid**

$C_6H_6O_4$ (142.11). **Source:** fungus *Epicoccum* sp. **Ref:** 5445.

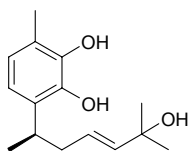


10496 18-Hydroxy-14-O-methylgadesine

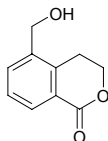
$C_{24}H_{37}NO_7$ (451.56). Colorless needles (*n*-hexane–ethyl acetate), mp 108–110°C, $[\alpha]_D^{25} = +50.0^\circ$ ($c = 0.8$, $CHCl_3$). Source: DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). Ref: 4283.

**10497 6-Hydroxy-2-methyl-5-(5'-hydroxy-1'(R),5'-dimethylhex-3'-enyl)-phenol**

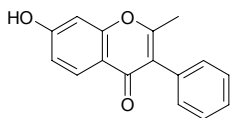
$C_{15}H_{22}O_3$ (250.34). Yellow oil, $[\alpha]_D^{25} = -35^\circ$ ($c = 1.0$, CH_2Cl_2). Source: KU A MO YAO *Commiphora kua* (resin). Ref: 4334.

**10498 5-Hydroxymethylisochroman-1-one**

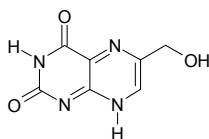
$C_{10}H_{10}O_3$ (178.19). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2528.

**10499 7-Hydroxy-2-methyl isoflavone**

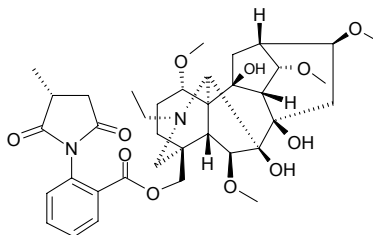
$C_{16}H_{12}O_3$ (252.27). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 660.

**10500 6-Hydroxymethylumazin**

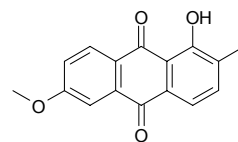
[10129-99-4] $C_7H_6N_4O_3$ (194.15). mp 260–262°C (dec). Source: BO CAI *Spinacia oleracea*. Ref: 6, 1521.

**10501 10-Hydroxy-methyllycaconitine**

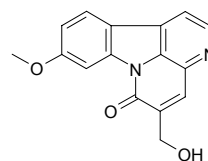
$C_{37}H_{50}N_2O_{11}$ (698.82). Amorphous, $[\alpha]_D^{20} = +51.0^\circ$ ($CHCl_3$). Source: SHEN LIE CUI QUE HUA *Delphinium dissectum*, GAO DA CUI QUE HUA *Delphinium excelsum*. Ref: 2055.

**10502 1-Hydroxy-2-methyl-6-methoxyanthraquinone**

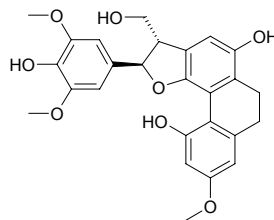
$C_{16}H_{12}O_4$ (268.27). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**10503 5-Hydroxymethyl-9-methoxycanthin-6-one**

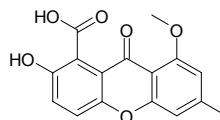
$C_{16}H_{12}N_2O_3$ (280.29). Yellow powder (MeOH), mp 235°C (dec). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000033%dw), *Eurycoma* sp. Ref: 4556, 4728.



10504 (2*R,3*S**)-3-Hydroxymethyl-9-methoxy-2-(4'-hydroxy-3',5'-dimethoxyphenyl)-2,3,6,7-tetrahydrophenanthro[4,3-*b*]furan-5,11-diol**
 $C_{26}H_{26}O_8$ (466.49). Gum, $[\alpha]_D^{27} = -3.5^\circ$ ($c = 0.85$, $CHCl_3$). Source: QIAO SHI DOU LAN *Bulbophyllum vaginatum* (whole herb). Ref: 4768.

**10505 2-Hydroxy-6-methyl-8-methoxy-9-oxo-9*H*-xanthene-1-carboxylic acid**

$C_{16}H_{12}O_6$ (300.27). Stable pale yellow amorphous solid. Pharm: Cytotoxic inactive (brine shrimp *Artemia salina* lethality assay, 20µg/mL or 200µg/mL). Source: *Xylaria* sp. Ref: 3845.



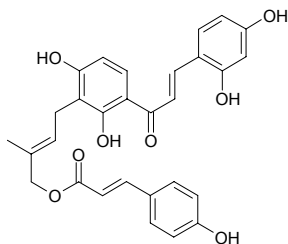
10506 3'-[γ -Hydroxymethyl-(*E*)- γ -methylallyl]-2,4,2',4'-tetrahydroxy-chalcone 11'-*O*-coumarate

Anticancer Flavonoid PMV70P691-021 C₂₉H₂₆O₈ (502.53). Orange powder.

Pharm: Aromatase inhibitor (*in vitro*, IC₅₀ = 0.5 μ mol/L; control

Aminoglutethimide, IC₅₀ = 6.4 μ mol/L). **Source:** GOU SHU

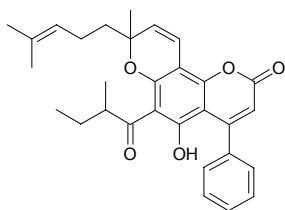
Broussonetia papyrifera. **Ref:** 3090, 5038.



10507 5-Hydroxy-8-methyl-6-(2-methylbutanoyl)-8-(4-methylpent-3-enyl)-4-phenyl-2*H*-pyrano[2,3-*h*]chromen-2-one

C₃₀H₃₂O₅ (472.59). Yellow gum. **Source:** TIE LI MU *Mesua ferrea* (blossom).

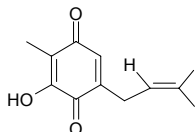
Ref: 3870.



10508 3-Hydroxy-2-methyl-5-(3-methyl-2-butenyl)benzo-1,4-quinone

C₁₂H₁₄O₃ (206.24). **Source:** XUAN CHUI GEN NAI LA CAO *Gunnera*

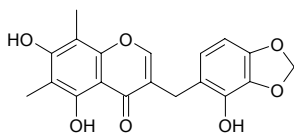
perpensa (stem and leaf). **Ref:** 5314.



10509 2'-Hydroxymethylphiopogonone A

C₁₉H₁₆O₇ (356.34). **Source:** MAI DONG *Ophiopogon japonicus* (tuber). **Ref:**

4663.

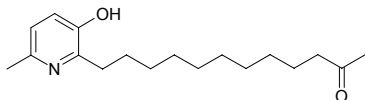


10510 5-Hydroxy-2-methyl-6-(11'-oxododecyl)-pyridine

C₁₈H₂₉NO₂ (291.44). Pale oil. **Pharm:** Cytotoxic inactive (P₃₈₈, IC₅₀ > 20 μ g/mL,

control 5-FU, IC₅₀ = 0.99 μ g/mL; KB, IC₅₀ > 20 μ g/mL, Doxorubicin, IC₅₀ = 0.57 μ g/mL; BC-1, IC₅₀ > 20 μ g/mL, Doxorubicin, IC₅₀ = 0.21 μ g/mL); cytotoxic (brine shrimp lethality, IC₅₀ = 56.0 μ g/mL, control Monocrotophos, IC₅₀ = 0.24 μ g/mL). **Source:** ZHUANG GUAN FAN XIE *Senna spectabilis* (flower).

Ref: 5480.



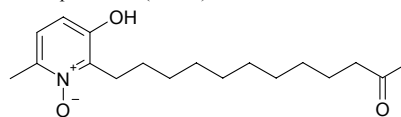
10511 5-Hydroxy-2-methyl-6-(11'-oxododecyl)-pyridine *N*-oxide

C₁₈H₂₉NO₃ (307.44). White crystals, mp 71~72°C. **Pharm:** Cytotoxic (P₃₈₈,

IC₅₀ = 4.8 μ g/mL, control 5-FU, IC₅₀ = 0.99 μ g/mL; KB, IC₅₀ = 2.0 μ g/mL, Doxorubicin, IC₅₀ = 0.57 μ g/mL; BC-1, IC₅₀ = 4.1 μ g/mL, Doxorubicin, IC₅₀ =

0.21 μ g/mL); cytotoxic (brine shrimp lethality, IC₅₀ = 9.7 μ g/mL, control Monocrotophos, IC₅₀ = 0.24 μ g/mL). **Source:** ZHUANG GUAN FAN XIE

Senna spectabilis (flower). **Ref:** 5480.

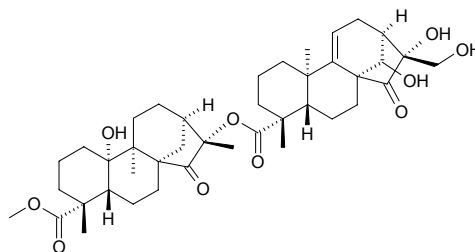


10512 10 α -Hydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid methyl ester-16 α -yl-14' α ,16' α ,17'-trihydroxy-15'-oxo-*ent*-kaur-11'-*en*-19'-oate

C₄₁H₅₈O₁₀ (710.91). White crystals, mp 100~105°C, [α]_D²⁵ = +35.0° (*c* = 0.1,

MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL,

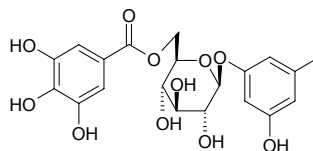
0.001 μ g/mL, 0.004 μ g/mL and 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



10513 3-Hydroxy-5-methylphenol 1-*O*- β -D-(6'-galloyl)glucopyranoside

C₂₀H₂₂O₁₁ (438.39). Off-white amorphous powder, [α]_D²⁶ = -20.3° (*c* = 0.22,

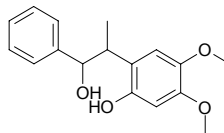
MeOH). **Source:** YANG TONG *Cleyera ochracea* [Syn. *Cleyera japonica*] (leaf and branch). **Ref:** 4148.



10514 2-(2-Hydroxy-1-methyl-2-phenylethyl)-4,5-dimethoxyphenol

C₁₇H₂₀O₄ (288.35). Amorphous solid; mp 37~45°C, [α]_D²⁵ = -44.9° (*c* = 0.25,

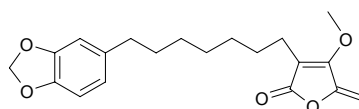
CHCl₃). **Source:** JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem; yield = 0.0011% dw). **Ref:** 4716.



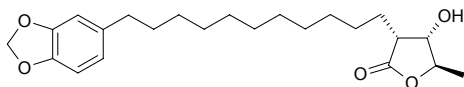
10515 3-Hydroxy-4-methyl-2-(7'-piperonyl-*n*-heptyl)-butenolide

Iryelliptin B C₂₀H₂₄O₅ (344.41). Viscous oil. **Source:** SU LI NAN ROU DOU

KOU *Virola surinamensis* [Syn. *Myristica surinamensis*]. **Ref:** 2580.

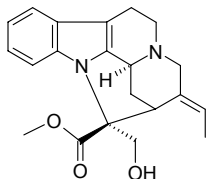


10516 (2S,3R,4S)-3-Hydroxy-4-methyl-2-(11'-piperonyl-n-undecyl)butanolid
Juruenolide E C₂₃H₃₄O₅ (390.52). Viscous oil, [α]_D = +7°, (c = 0.10, MeOH).
Source: SU LI NAN ROU DOU KOU *Virola surinamensis* [Syn. *Myristica surinamensis*]. Ref: 2580.



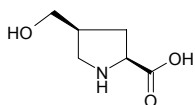
10517 16-Hydroxymethylpleiocarpamine

C₂₁H₂₄N₂O₃ (352.44). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf).
Ref: 3830.



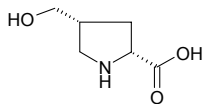
10518 cis-4-Hydroxymethylproline

[2370-39-0] C₆H₁₁NO₃ (145.16). mp 257~258°C (dec). Source: PI PA HE *Eriobotrya japonica*. Ref: 6.



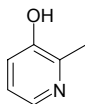
10519 trans-4-Hydroxymethylproline

C₆H₁₁NO₃ (145.16). mp 227.5~229.0°C. Source: PI PA HE *Eriobotrya japonica*. Ref: 6.



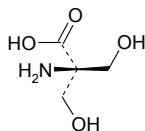
10520 3-Hydroxy-2-methylpyridine

C₆H₇NO (109.13). Source: MENG GU HUANG QI *Astragalus mongholicus*, ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 660, 1400.



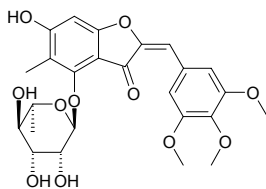
10521 α-Hydroxymethylserine

C₄H₉NO₄ (135.12). Source: TIAN HUA FEN *Trichosanthes kirilowii*. Ref: 2.



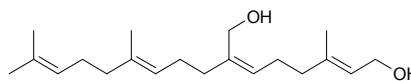
10522 6-Hydroxy-5-methyl-3',4',5'-trimethoxyaurone 4-O-α-L-rhamnopyranoside

C₂₅H₂₈O₁₁ (504.50). Source: SI ZI TAN *Pterocarpus santalinus* (wood). Ref: 3889.



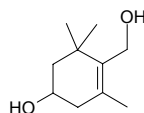
10523 (E,Z,E)-7-Hydroxymethyl-3,11,15-trimethyl-2,6,10,14-hexadecatetraen-1-ol

C₂₀H₃₄O₂ (306.49). Oil. Source: JIN QIN ZHUANG BA DOU *Croton sublyratus*. Ref: 661.



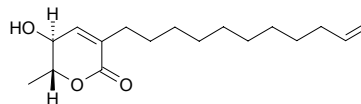
10524 4-Hydroxymethyl-3,5,5-trimethylcyclohex-3-enol

C₁₀H₁₈O₂ (170.25). Source: ZANG HONG HUA *Crocus sativus* (stigma; yield = 0.00011%dw). Ref: 4653.



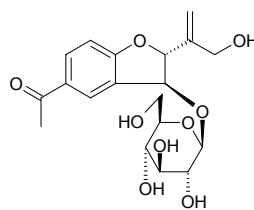
10525 5-Hydroxy-6-methyl-3-(undec-10-enyl)-5,6-dihydropyran-2-one

C₁₇H₂₈O₃ (280.41). Colorless oily liquid, [α]_D = +10.75° (c = 0.002, CHCl₃).
Source: QING XIANG MU JIANG ZI *Litsea euosma* (twig and leaf). Ref: 4576.



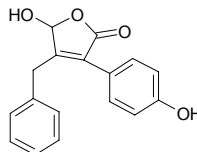
10526 (2R*,3S*)-1-(2-[1-(Hydroxymethyl)viny]-3-[β-D-glucosyloxy]-2,3-dihydrobenzo[b]furan-5-yl)-1-ethanone

C₁₉H₂₄O₉ (396.40). Pharm: Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100µg/cm², oedema = (5.6±0.5)mg, p<0.05, reduction = 28%, Indomethacin oedema = (3.4±0.3)mg, p<0.05, reduction = 56%). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985.



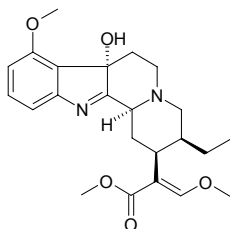
10527 9-Hydroxymicroperforanone

EQ-8 C₁₇H₁₄O₄ (232.30). White powder, [α]_D²⁵ = 0° (c = 0.030, MeOH).
Source: *Gelasinospora santi-florii*. Ref: 2103.

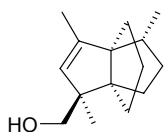


10528 7-Hydroxymitragynine

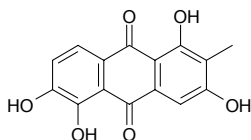
$C_{23}H_{30}N_2O_5$ (414.51). **Pharm:** Opioid agonist (gpg ileum, $pEC_{50} = 8.38 \pm 0.12$, control Morphine, $pEC_{50} = 7.15 \pm 0.05$). **Source:** MEI LI MAO ZHU MU *Mitragyna speciosa* (leaf). **Ref:** 5069.

**10529 14-Hydroxymodhephene**

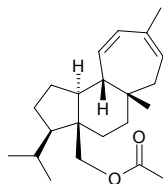
$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_{589nm} = -13^\circ$, $[\alpha]_{578nm} = -13^\circ$, $[\alpha]_{546nm} = -15^\circ$, $[\alpha]_{436nm} = -27^\circ$, $[\alpha]_{365nm} = -44^\circ$ ($c = 1.37$, $CHCl_3$). **Source:** JUAN MAO KUO BAO JU *Pluchea sericea*. **Ref:** 2277.

**10530 3-Hydroxymorindone**

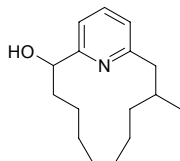
$C_{15}H_{10}O_6$ (286.24). **Source:** HONG YA DA JI *Knoxia valerianoides*. **Ref:** 660.

**10531 20-Hydroxymulin-11,13-dienyl acetate**

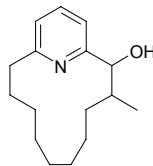
$C_{22}H_{34}O_2$ (330.52). Colorless oil, $[\alpha]_D^{25} = +89.28^\circ$ ($c = 0.168$, $CHCl_3$). **Pharm:** Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, ip 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 29%; control Chloroquine, $IC_{50} = 2.5mg/(kg·d)$). **Source:** MI XIAO YING QIN *Azorella compacta* (aerial parts). **Ref:** 3815.

**10532 Hydroxymuscovyridine A**

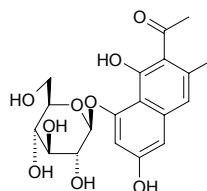
[89368-39-8] $C_{16}H_{25}NO$ (247.38). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**10533 Hydroxymuscovyridine B**

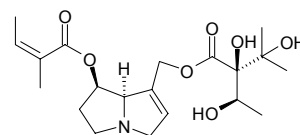
[89368-40-1] $C_{16}H_{25}NO$ (247.38). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**10534 6-Hydroxymusizin-8-O-β-D-glucoside**

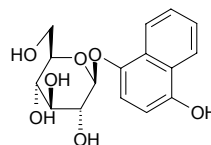
$C_{19}H_{22}O_9$ (394.38). **Source:** DA HUANG *Rheum officinale*. **Ref:** 2.

**10535 Hydroxymyoscorpine**

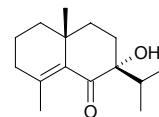
[126642-92-0] $C_{20}H_{31}NO_7$ (397.47). $[\alpha]_D = +2.2^\circ$ ($c = 0.2$, EtOH). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2193.

**10536 4-Hydroxy-1-naphthalenyl-β-D-glucopyranoside**

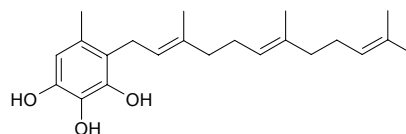
$C_{16}H_{18}O_7$ (322.32). **Source:** HU TAO REN *Juglans regia*. **Ref:** 660.

**10537 7α-Hydroxyneocalamone**

$C_{15}H_{24}O_2$ (236.36). **Source:** JI JI *Chloranthus serratus*. **Ref:** 660.

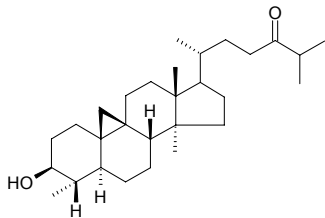
**10538 3-Hydroxyneogrifolin**

$C_{22}H_{32}O_3$ (344.50). White amorphous powder. **Source:** RE BEN MO GU *Albatrellus ovinus*. **Ref:** 2005.

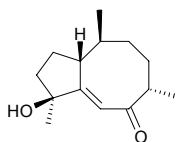


10539 3 β -Hydroxy-29-norcycloart-24-one

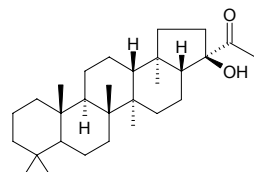
C₂₉H₄₈O₂ (428.70). Amorphous powder, $[\alpha]_D^{24} = +42.6^\circ$ ($c = 0.19$, CHCl₃). **Pharm:** Cytotoxic (Meth-A sarcoma cell line, ED₅₀ > 10 μ g/mL, LLC cell line, ED₅₀ > 10 μ g/mL). **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts). **Ref:** 3510.

**10540 4-Hydroxy-14-nor-5-dumorten-7-one**

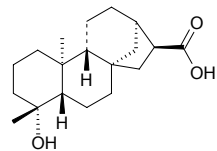
C₁₄H₂₂O₂ (222.33). Oil. **Source:** MAO DI QIAN *Dumortiera hirsuta*. **Ref:** 2283.

**10541 21-Hydroxy-30-norhopan-22-one**

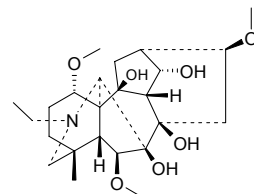
C₂₉H₄₈O₂ (428.70). mp 281~284°C. **Source:** ZHU ZONG CAO *Adiantum capillus-veneris*. **Ref:** 6.

**10542 4 α -Hydroxy-19-nor-ent-kauran-17-oic acid**

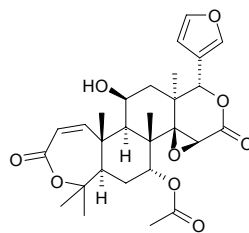
C₁₉H₃₀O₃ (306.45). **Pharm:** Platelet aggregation selected inhibitor (washed rabbit platelets, 200 μ mol/L: 100 μ mol/L AA induced, InRt = 4.5%; 10 μ g/mL collagen induced, InRt = 30.5%; 1 ng/mL PAF induced, InRt = 13.3%; 0.05 U/mL thrombin induced, InRt = 2.0%)^[4654], antioxidant (inhibits superoxide anion generation, fMLP/CB, IC₅₀ = (1.14 \pm 0.31) μ g/mL, $p < 0.001$, control DPI, IC₅₀ = (0.13 \pm 0.06) μ g/mL, $p < 0.001$)^[4950]. **Source:** FAN LI ZHI *Annona squamosa* (stem; yield = 0.067%fw). **Ref:** 4654, 4950.

**10543 10-Hydroxynudicaulidine**

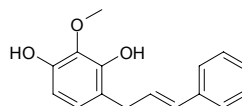
C₂₄H₃₉NO₇ (453.58). Amorphous, $[\alpha]_D^{20} = +26.3^\circ$ (CHCl₃). **Source:** GAO DA CUI QUE HUA *Delphinium excelsum*. **Ref:** 2055.

**10544 11 β -Hydroxy-7 α -obacunyl acetate**

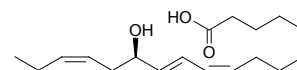
C₂₈H₃₄O₉ (514.58). Colorless prisms (CHCl₃/MeOH), mp 245~248°C, $[\alpha]_D^{23} = +21.2^\circ$ ($c = 0.1$, CHCl₃). **Source:** ZHONG GUO YANG CHUN *Cedrela sinensis* (leaf). **Ref:** 3883.

**10545 Hydroxyobtustylene**

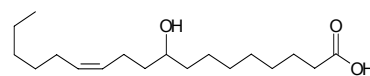
C₁₆H₁₆O₃ (256.30). **Pharm:** Platelet aggregation inhibitor (induced by arachidonic acid); prostaglandin biosynthesis inhibitor. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 660.

**10546 13(R)-Hydroxy-octadeca-(9Z,11E,15Z)-trien-oic acid**

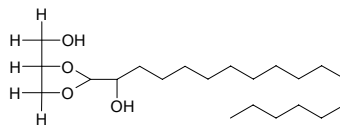
C₁₈H₃₀O₃ (294.44). Yellow oil, $[\alpha]_D^{25} = -4.3^\circ$ ($c = 0.37$, CHCl₃). **Source:** GUANG YE YAN ZI CAI *Potamogeton lucens* (whole herb). **Ref:** 3795.

**10547 9-D-Hydroxy-cis-12-octadecenoic acid**

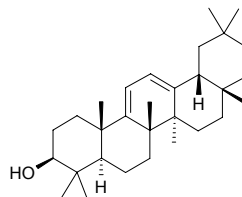
[38231-95-7] C₁₈H₃₄O₃ (298.47). mp (+) 30~32°C. **Source:** ZHI XIE MU PI *Holarhena antidysenterica*. **Ref:** 6.

**10548 1,2-O-[2'-Hydroxyoctadecyl]-glycerol**

C₂₁H₄₂O₄ (358.57). White powder. **Source:** DENG XIN LIU SHAN HU *Junceella juncea*. **Ref:** 2547.

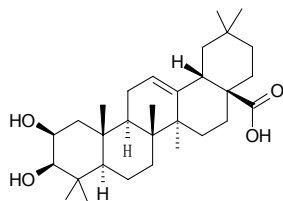
**10549 3 β -Hydroxy-olean-9(11),12-diene**

C₃₀H₄₈O (424.72). White crystals (EtOAc), easily soluble in CHCl₃ and MeOH, mp 280~282°C. **Source:** SI CHUAN QING FENG TENG *Sabia schumanniana* (aerial parts). **Ref:** 4883.

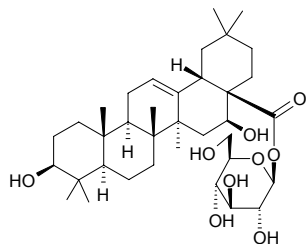


10550 2 β -Hydroxyoleanolic acid

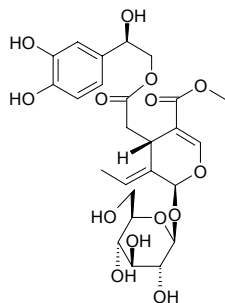
C₃₀H₄₈O₄ (472.71). Source: MI DIE XIANG *Rosmarinus officinalis*. Ref: 6.

**10551 16 β -Hydroxy-18 β H-oleanolic acid-28-O- β -D-glucopyranoside**

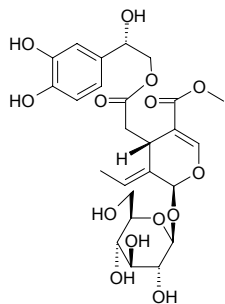
C₃₆H₅₈O₉ (634.86). White powder, mp 274~276°C. Source: TOU XU CONG MU *Aralia dasyphylla*. Ref: 398.

**10552 (2''R)-2''-Hydroxyoleuropein**

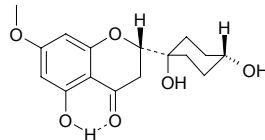
C₂₅H₃₂O₁₄ (556.53). Colorless amorphous powder, [α]_D²⁸ = -152° (c = 0.30, MeOH). Source: MEI GUO BAI CEN *Fraxinus americana* (leaf). Ref: 5091.

**10553 (2''S)-2''-Hydroxyoleuropein**

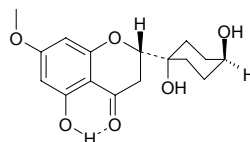
C₂₅H₃₂O₁₄ (556.53). Colorless amorphous powder, [α]_D²⁹ = -140° (c = 0.24, MeOH). Source: MEI GUO BAI CEN *Fraxinus americana* (leaf). Ref: 5091.

**10554 (2S)-cis-4'-Hydroxy-ongokein**

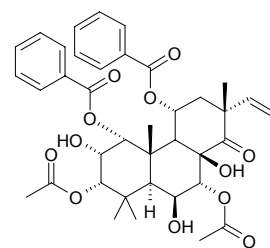
(2S)-5-Hydroxy-2-(cis-1',4'-dihydroxycyclohexyl)-7-methoxychroman-4-one C₁₆H₂₀O₆ (308.33). White crystals, mp 105~108°C, [α]_D = +47° (c = 1.7). Source: EN GE MU *Ongokea gore* (stem cortex and root). Ref: 5308.

**10555 (2S)-trans-4'-Hydroxy-ongokein**

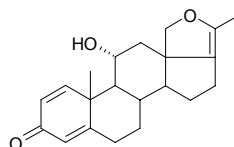
(2S)-5-Hydroxy-2-(trans-1',4'-dihydroxycyclohexyl)-7-methoxychroman-4-one C₁₆H₂₀O₆ (308.33). White amorphous powder, mp 68~71°C, [α]_D = +68° (c = 0.69). Source: EN GE MU *Ongokea gore* (stem cortex and root). Ref: 5308.

**10556 6-Hydroxyorthosiphon B**

C₃₈H₄₄O₁₂ (692.77). Colorless amorphous solid, [α]_D²⁵ = -53.4° (c = 0.027, CHCl₃). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

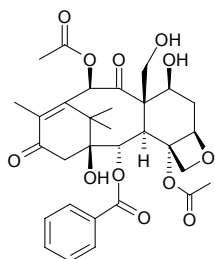
**10557 11 α -Hydroxy 18,20-oxido-3-oxo-pregna-1,4,17(20)-triene**

C₂₁H₂₆O₃ (326.44). Orange red plates (MeOH), mp 108~110°C. Source: DUAN ROU MAO ZHI XIE MU *Holarrhena pubescens* (bark). Ref: 5231.

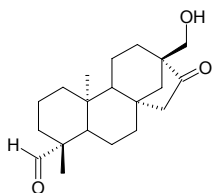


10558 19-Hydroxy-13-oxobaccatin III

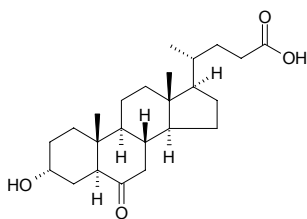
$C_{31}H_{36}O_{12}$ (600.63). **Pharm:** Cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 79.8%; NCI-H226, InRt = 84.7%; A549, InRt = 45.4%; PC3, InRt = 88.2%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana*. **Ref:** 662, 4800.

**10559 (4R,5S,8R,9R,10S,13S)-ent-17-Hydroxy-16-oxobeyeran-19-al**

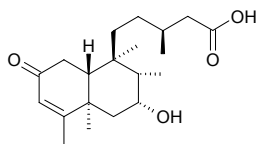
$C_{20}H_{30}O_3$ (318.46). White amorphous solid, $[\alpha]_D^{20} = -35.0^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 45.4 \mu$ g/mL; K562, $GI_{50} = 50 \mu$ g/mL; HeLa, $CC_{50} = 37.7 \mu$ g/mL; control Paclitaxel, L-929, $GI_{50} = 0.1 \mu$ g/mL; K562, $GI_{50} = 0.01 \mu$ g/mL; HeLa, $CC_{50} = 0.01 \mu$ g/mL). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem, yield = 0.00046%). **Ref:** 4770.

**10560 3 α -Hydroxy-6-oxo-5 α -cholic acid**

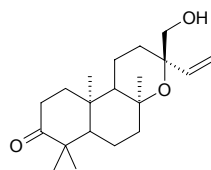
$C_{24}H_{38}O_4$ (390.57). mp 194°C. **Source:** YE ZHU DAN *Sus scrofa*, ZHU DAN *Sus scrofa domestica*. **Ref:** 6.

**10561 ent-7 β -Hydroxy-2-oxo-3-cleroden-15-oic acid**

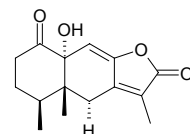
$C_{20}H_{32}O_4$ (336.48). Colorless oil, $[\alpha]_D^{20} = -30^\circ$ ($c = 0.195$, $CHCl_3$). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (4.3 \pm 0.9) \mu$ g/mL, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu$ g/mL). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

**10562 ent-16-Hydroxy-3-oxo-13-epi-manoyl oxide**

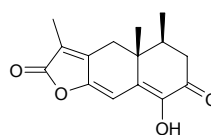
$C_{20}H_{32}O_3$ (320.48). Colorless needles (MeOH), mp 134–136°C, $[\alpha]_D^{25} = -20.2^\circ$ ($c = 0.3$, $CHCl_3$). **Source:** HAI QI *Excoecaria agallocha* (root). **Ref:** 5114.

**10563 10 α -Hydroxy-1-oxoeremophila-7(11),8(9)-dien-12, 8-olide**

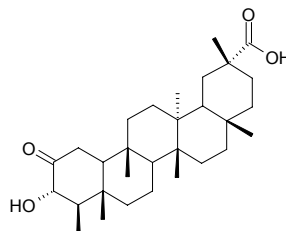
$C_{15}H_{18}O_4$ (262.31). **Source:** *Ligularia virgaurea* ssp. *oligocephala* (whole herb). **Ref:** 4981.

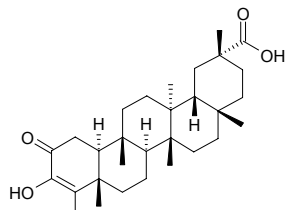
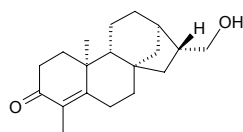
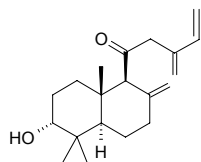
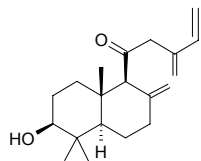
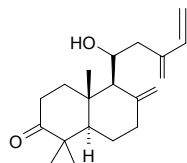
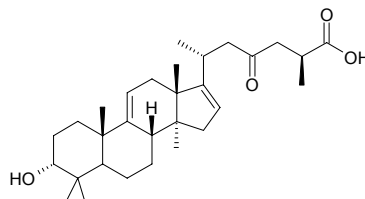
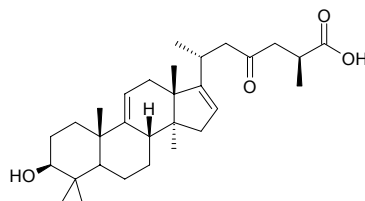
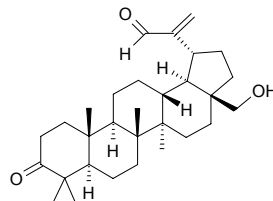
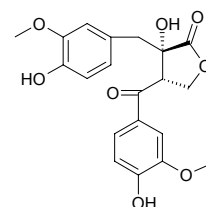
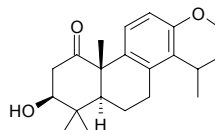
**10564 1-Hydroxy-2-oxoeremophil-1(10),7(11),8(9)-trien-12(8)-olide**

$C_{15}H_{16}O_4$ (260.29). Crystalline yellow solid, mp 198–200°C, $[\alpha]_D = -187^\circ$ ($c = 1$, CH_2Cl_2). **Pharm:** Phytogrowth inhibitor (inhibits radicle growth of *Amaranthus hypochondriacus*, $IC_{50} = 6.57 \mu$ mol/L); calmodulin-dependent cAMP phosphodiesterase inhibitor ($IC_{50} = (10.2 \pm 7.6) \mu$ mol/L, control Chlorpromazine, $IC_{50} = (18.4 \pm 2.7) \mu$ mol/L). **Source:** *Malbranchea aurantiaca*. **Ref:** 5273.

**10565 3 α -Hydroxy-2-oxofriedelane-20 α -carboxylic acid**

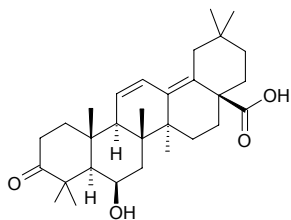
$C_{30}H_{48}O_4$ (472.71). Needles, mp 305–307°C (lit. mp 313–315°C), $[\alpha]_D = +90^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Antibacterial (*Staphylococcus aureus*, $IC_{50} > 12.5 \mu$ g/mL, control MA, $IC_{50} = 12.5 \mu$ g/mL; *Pseudomonas aeruginosa*, $IC_{50} > 25 \mu$ g/mL, MA, $C_{50} = 12.5 \mu$ g/mL; *Cryptococcus neoformans*, $IC_{50} > 50 \mu$ g/mL, MA, $IC_{50} > 12.5 \mu$ g/mL); antifungal inactive (*Candida albicans*, $IC_{50} > 50 \mu$ g/mL, control MA, $IC_{50} > 12.5 \mu$ g/mL). **Source:** YI YE MEI DENG MU *Maytenus heterophylla*. **Ref:** 5189.



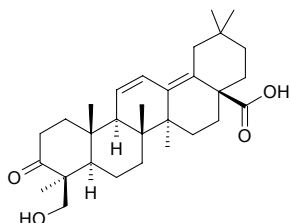
10566 3-Hydroxy-2-oxo-3-friedelen-20 α -carboxylic acidC₃₀H₄₆O₄ (470.70). Colorless acicular crystals, mp 318~320°C (MeOH).Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 670.**10567 16 β H,17-Hydroxy-3-oxo-19-nor-ent-kaur-4-ene**C₁₉H₂₈O₂ (288.43). Colorless oil, [α]_D²⁵ = -72.0° (*c* = 0.47, CHCl₃). Pharm:Antibacterial (*Staphylococcus aureus*, MIC < 1.5mg/mL; *Bacillus cereus*, *Pseudomonas aeruginosa* and *Escherichia coli*, MIC = 2.0~2.5mg/mL).Source: *Antennaria geyeri* (aerial parts). Ref: 3853.**10568 3 α -Hydroxy-11-oxo-labda-8(17),13(16),14-triene**C₂₀H₃₀O₂ (302.46). [α]_D²⁰ = +9.8° (*c* = 1.5, CHCl₃). Source: YUAN YE TAI*Jamesoniella colorata*. Ref: 3375.**10569 3 β -Hydroxy-11-oxo-labda-8(17),13(16),14-triene**C₂₀H₃₀O₂ (302.46). [α]_D²⁰ = +47.0° (*c* = 1.5, CHCl₃). Source: YUAN YE TAI*Jamesoniella colorata*. Ref: 3375.**10570 11-Hydroxy-3-oxo-labda-8(17),13(16),14-triene**C₂₀H₃₀O₂ (302.46). [α]_D²⁰ = +8.14° (*c* = 1.2, CHCl₃). Source: YUAN YE TAI*Jamesoniella colorata*. Ref: 3375.**10571 (25R)-3 α -Hydroxy-23-oxo-9,16-lanostadien-26-oic-acid**C₃₀H₄₆O₄ (470.70). Gum, [α]_D²⁵ = +17.5° (*c* = 0.013, CHCl₃). Source: MEI LITENG HUANG *Garcinia speciosa* (bark). Ref: 3762.**10572 (25R)-3 β -Hydroxy-23-oxo-9,16-lanostadien-26-oic acid**C₃₀H₄₆O₄ (470.70). White powder, mp 218~220°C, [α]_D²⁹ = +58° (*c* = 0.34,MeOH); mp 220~222°C, [α]_D²⁰ = -61° (*c* = 0.013, MeOH). Source: SHANFENG GUO *Garcinia hombroniana* (pericarp), MEI LI TENG HUANG*Garcinia speciosa* (bark). Ref: 3762, 5085.**10573 28-Hydroxy-3-oxo-lup-20-(29)-en-30-al**C₃₀H₄₆O₃ (454.70). Colorless gummy substance, [α]_D²⁰ = +9.62° (*c* = 1.0,CHCl₃). Pharm: Cytotoxic (NSCLC-N6 cell line, IC₅₀ = (15±0.06)μg/mL).Source: JU MI JIN HE HUAN *Acacia mellifera* (stem cortex). Ref: 3806.**10574 (8S,8'S)-(+)-8-Hydroxy-oxomatairesinol**C₂₀H₂₀O₈ (388.38). Pale yellow amorphous powder, [α]_D²⁵ = +97.3° (*c* = 0.83,MeOH); [α]_D²⁵ = +95.1° (*c* = 0.83, THF). Source: YI YE TIE SHAN *Tsuga**heterophylla* (sapwood). Ref: 3965.**10575 3 β -Hydroxy-1-oxo-13-O-methyltotarol**C₂₁H₃₀O₃ (330.47). Solid, mp = 179~180.6°C, [α]_D²⁵ = +3.5° (*c* = 1.3, MeOH).Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

10576 6 β -Hydroxy-3-oxo-11,13(18)-oleanadien-28-oic acid

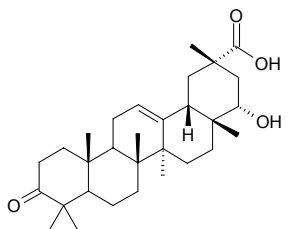
C₃₀H₄₄O₄ (468.68). Colorless prisms; mp 235~237°C, [α]_D²⁰ = -60.4° (c = 0.31, CHCl₃). Source: XUAN CHUI JIA MI *Viburnum suspensum*. Ref: 1966.

**10577 24-Hydroxy-3-oxo-11,13(18)-oleanadien-28-oic acid**

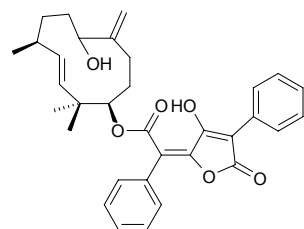
C₃₀H₄₄O₄ (468.68). Colorless prisms, mp 217~218°C, [α]_D²⁰ = -86.5° (c = 0.38, CHCl₃). Source: XUAN CHUI JIA MI *Viburnum suspensum*. Ref: 1966.

**10578 22 α -Hydroxy-3-oxoolean-12-en-29-oic acid**

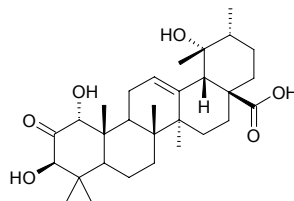
C₃₀H₄₆O₄ (470.70). Pharm: DPPH scavenger inactive (for 40 μ mol/L DPPH radical, SC₅₀ > 40 μ mol/L). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**10579 (3-Hydroxy-5-oxo-4-phenyl-5H-furan-2-ylidene)-phenylacetic Acid 6-hydroxy-1,7(11)-humuladienyl-10-yl ester**

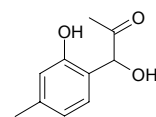
C₃₃H₃₆O₆ (528.65). Oil, [α]_D = -87.5° (c = 0.4, CHCl₃). Source: Tylimanthus *tenellus*. Ref: 4280.

**10580 1 α -Hydroxy-2-oxopomolic acid**

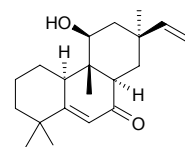
C₃₀H₄₆O₆ (502.70). Pharm: Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC₅₀ = 32.5 μ mol/L; control Cyclosporine A, IC₅₀ = 0.012 μ mol/L). Source: TAI WAN PI PA *Eriobotrya deflexa* (leaf). Ref: 3064.

**10581 2-(1'-Hydroxy-2'-oxopropyl)-5-methylphenol**

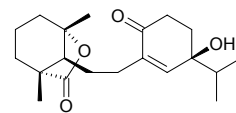
C₁₀H₁₂O₃ (180.21). [α]_D²¹ = -13.1° (c = 0.64, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**10582 11 β -Hydroxy-7-oxo-rosa-5,15-diene**

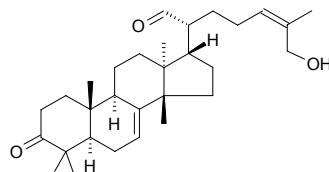
C₂₀H₃₀O₂ (302.46). [α]_D²⁰ = +76° (c = 0.41, CHCl₃). Source: *Gackstroemia decipiens*. Ref: 3907.

**10583 13S-Hydroxy-9-oxo-9,10-seco-abiet-8(14)-en-18,10 α -olide**

C₂₀H₃₀O₄ (334.46). Colorless oil, [α]_D²³ = -4.8° (c = 0.46, CHCl₃). Pharm: EBV-EA inhibitor (TPA-induced, IC₅₀ = 273mol ratio/32pmol TPA, control Curcumin, IC₅₀ = 341mol ratio/32pmol TPA). Source: SA HA LIN YUN SHAN *Picea glehnii* (stem cortex). Ref: 5028.

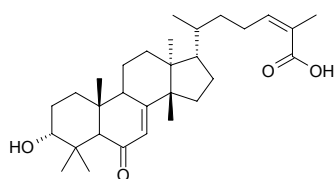
**10584 (24Z)-26-Hydroxy-3-oxo-7,24-tirucalladien-21-al**

(24Z)-26-Hydroxy-3-oxo-7,24-euphadien-21-al [121063-65-8] C₃₀H₄₆O₃ (454.70). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

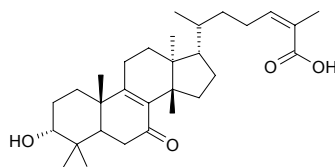


10585 3 α -Hydroxy-6-oxo-7,24Z-tirucalladien-26-oic acid

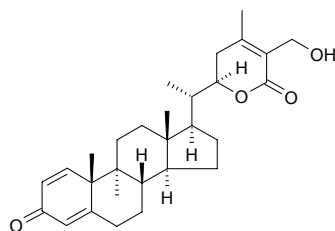
C₃₀H₄₆O₄ (470.70). Colorless powder, mp 233~234°C, [α]_D = -29.9° (*c* = 0.5, MeOH). Source: *Juliania adstringens* (bark). Ref: 3786.

**10586 3 α -Hydroxy-7-oxo-8,24Z-tirucalladien-26-oic acid**

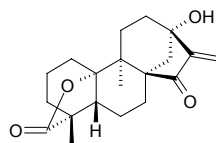
C₃₀H₄₆O₄ (470.70). Colorless powder, mp 235~240°C, [α]_D = -45.1° (*c* = 0.1, MeOH). Source: *Juliania adstringens* (bark). Ref: 3786.

**10587 27-Hydroxy-3-oxo-witha-1,4,24-trienolide**

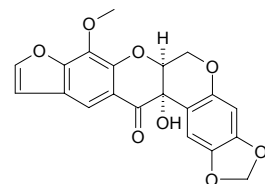
C₂₈H₃₈O₄ (438.61). Source: CUI MIAN SHUI QIE *Withania somnifera* (leaf). Ref: 5329.

**10588 13-Hydroxy-15-oxozoapatlin**

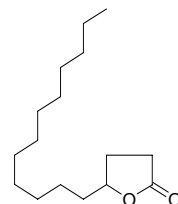
C₂₀H₂₆O₄ (330.43). Pharm: Antineoplastic (*in vivo* hollow fiber test, 25~100mg/kg, active with KB and LNCaP cells); cytotoxic (cultured KB, ED₅₀ = 1.2μg/mL, LNCaP, ED₅₀ = 1.5μg/mL, Lu1, ED₅₀ = 5.2μg/mL). Source: *Parinari sprucei* (leaf). Ref: 4991.

**10589 12 α -Hydroxypachyrrhizone**

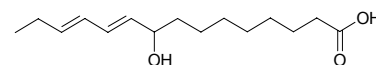
12 α -Hydroxypachyrrhizone C₂₀H₁₄O₈ (382.33). mp 214°C. Pharm: Antiviral (HSV-1, IC₅₀ = 18.0μg/mL; HSV-2, IC₅₀ = 18.5μg/mL)^[4180]. Source: DI GUA ZI *Pachyrrhizus erosus*. Ref: 6, 4180.

**10590 γ -Hydroxypalmitic acid lactone**

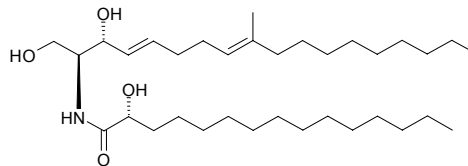
C₁₆H₃₀O₂ (254.42). mp 40.7~41.3°C. Source: HONG MU JI CAO *Desmodium gangeticum*. Ref: 6.

**10591 9-Hydroxy-10,12-pentadecadienoic acid**

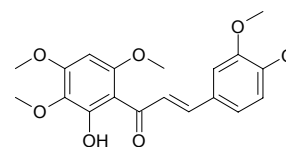
C₁₅H₂₆O₃ (254.37). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 2.

**10592 (2S,2'R,3R,4E,8E)-N-2'-Hydroxypentadecanoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol**

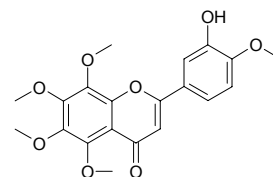
C₃₄H₆₅NO₄ (551.90). Amorphous powder, [α]_D²¹ = +7.0° (*c* = 0.1, CHCl₃). Source: BAO BAN E GAO *Amanita pantherina*, *Sarcodon aspratus*. Ref: 4195.

**10593 2'-Hydroxy-3,4,3',4',6'-pentamethoxychalcone**

C₂₀H₂₂O₇ (374.39). Pale yellow needles, mp 134~136°C. Source: RU JU *Citrus kinokuni* (peel). Ref: 4132.

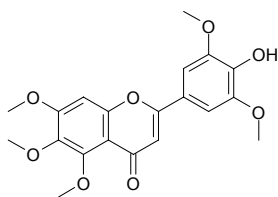
**10594 3'-Hydroxy-5,6,7,8,4'-pentamethoxyflavone**

[112448-39-2] C₂₀H₂₀O₈ (388.37). Colorless rhombic crystals (hexane-ethyl acetate), mp 139~140°C. Pharm: Cytotoxic (mus myelocytic leukemia cells, strongly induces cell differentiation, 50μmol/L, growing rate = 37%, activity of macrophages > 25%, 5μmol/L, growing rate = 50%, activity of macrophages > 10%). Source: JU PI *Citrus reticulata*. Ref: 997, 1063.

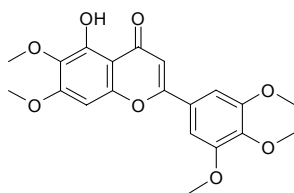


10595 4'-Hydroxy-5,6,7,3',5'-pentamethoxyflavone

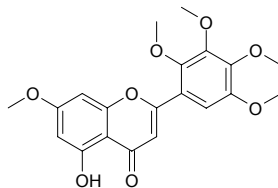
$C_{20}H_{20}O_8$ (388.38). **Pharm:** Cytotoxic (HeLa, $IC_{50} = 51.2\mu\text{g/mL}$, control Mitomycin C, $IC_{50} = 1.7\mu\text{g/mL}$). **Source:** TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4092.

**10596 5-Hydroxy-6,7,3',4',5'-pentamethoxyflavone**

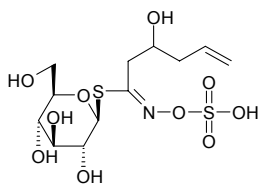
$C_{20}H_{20}O_8$ (388.38). **Source:** ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 626.

**10597 5-Hydroxy-7,2',3',4',5'-pentamethoxyflavone**

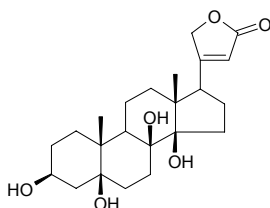
$C_{20}H_{20}O_8$ (388.38). **Pharm:** Anti-HIV-1 inactive. **Source:** TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). **Ref:** 4963.

**10598 2-Hydroxypent-4-enylglucosinate**

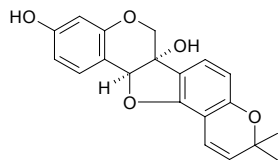
$C_{12}H_{21}NO_{10}S_2$ (403.43). **Source:** JIE CAI *Brassica juncea*. **Ref:** 660.

**10599 8-Hydroxy-periplogenin**

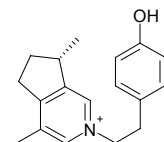
$C_{23}H_{34}O_6$ (406.52). mp 234–236°C, $[\alpha]_D = +32.4^\circ$. **Source:** XI NAN GANG LIU *Periploca forrestii*. **Ref:** 2498.

**10600 Hydroxyphaseollin**

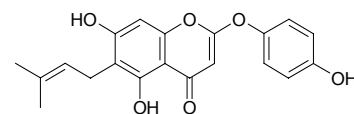
6 α -Hydroxyphaseollin $C_{20}H_{18}O_5$ (338.36). Adhesive oil, $[\alpha]_D^{20} = -207^\circ$ (ethyl acetate). **Pharm:** Antifungal (*Botrytis cinerea*). **Source:** HEI DA DOU *Glycine max*. **Ref:** 661.

**10601 N-(p-Hydroxyphenethyl)actinidine**

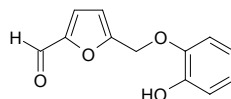
Valerianae alkaloid A [15794-92-0] $C_{18}H_{22}NO^+$ (268.38). mp 201–203°C (dec). **Pharm:** Cholinesterase inhibitor. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6, 658, 660.

**10602 2-(p-Hydroxyphenoxy)-5,7-dihydroxy-6-isopentenylchromone**

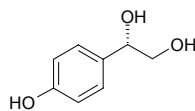
$C_{20}H_{18}O_6$ (354.36). Yellow-white powder. **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum*. **Ref:** 417.

**10603 5-(2-Hydroxyphenoxy)methylfurfural**

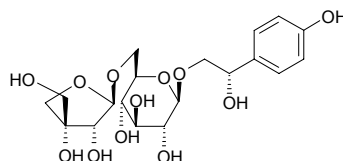
$C_{12}H_{10}O_4$ (218.21). mp 102–103°C. **Source:** PO LUO MEN ZAO JIA *Cassia fistula* (seed: yield = 0.00070%). **Ref:** 4642.

**10604 1'-(4-Hydroxyphenyl)ethane-1',2'-diol**

$C_8H_{10}O_3$ (154.17). mp 128–132°C, $[\alpha]_D^{24} = +10^\circ$. **Source:** HU SUI ZI *Coriandrum sativum* (whole herb). **Ref:** 4302.

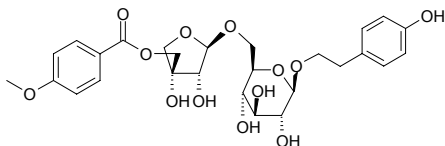
**10605 (1'S)-1'-(4-Hydroxyphenyl)ethane-1',2'-diol 2'-O- β -D-Apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

$C_{19}H_{28}O_{12}$ (448.43). Amorphous powder, $[\alpha]_D^{22} = -38^\circ$ ($c = 0.5$, MeOH). **Source:** HU SUI ZI *Coriandrum sativum*. **Ref:** 4302.



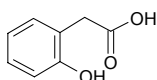
10606 2-(4-Hydroxyphenyl)ethyl-1-O- β -D-[5-O-(4-methoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

$C_{27}H_{34}O_{13}$ (566.56). Amorphous powder, $[\alpha]_D^{22} = -55.4^\circ$ ($c = 1.93$, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 55.1 \mu\text{g/mL}$, control *L*-NMMA, $IC_{50} = 27.4 \mu\text{g/mL}$)^[4473]. **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). **Ref:** 3817, 4473.



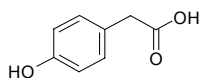
10607 2-Hydroxyphenyl acetic acid

[614-75-5] $C_8H_8O_3$ (152.15). mp 147~149°C. **Source:** LUO XIN FU *Astilbe chinensis*. **Ref:** 6.



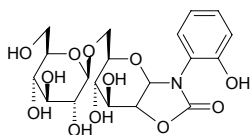
10608 p-Hydroxyphenyl acetic acid

[156-38-7] $C_8H_8O_3$ (152.15). mp 148~150°C. **Source:** QIAN LI GUANG *Senecio scandens* [Syn. *Senecio chinensis*], LI MENG YE *Citrus limonia*, LI MENG GEN *Citrus limonia*. **Ref:** 6.



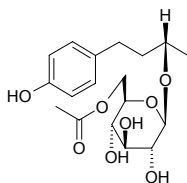
10609 1-(2-Hydroxyphenylamino)-1-deoxy-beta-gentiobioside 1,2-carbamate

$C_{19}H_{25}NO_{12}$ (459.41). **Source:** YU SHU SHU *Zea mays* (root). **Ref:** 5212.



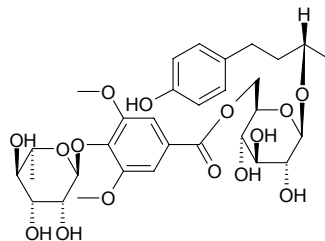
10610 (S)-4-(4-Hydroxyphenyl)-2-butanol 2-O-(6-O-acetyl)-beta-D-glucopyranoside

$C_{18}H_{26}O_8$ (370.40). Colorless powder, $[\alpha]_D^{25} = -40.2^\circ$ ($c = 0.8$, MeOH). **Source:** MA SHI DA HUANG *Rheum maximowiczii* (root). **Ref:** 5136.



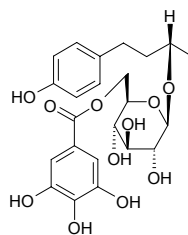
10611 (S)-4-(4-Hydroxyphenyl)-2-butanol 2-O-[6-O-(3,5-dimethoxy-4-O-alpha-L-rhamnopyranosylgalloyl)-beta-D-glucopyranoside]

$C_{31}H_{42}O_{15}$ (654.67). Pale yellow oil, $[\alpha]_D^{25} = -13.8^\circ$ ($c = 1.3$, MeOH). **Source:** MA SHI DA HUANG *Rheum maximowiczii* (root). **Ref:** 5136.



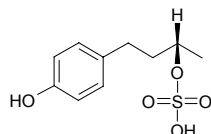
10612 (S)-4-(4-Hydroxyphenyl)-2-butanol 2-O-(6-O-galloyl)-beta-D-glucopyranoside

$C_{23}H_{28}O_{11}$ (480.47). Pale orange oil, $[\alpha]_D^{25} = -41.6^\circ$ ($c = 1.0$, MeOH). **Source:** MA SHI DA HUANG *Rheum maximowiczii* (root). **Ref:** 5136.



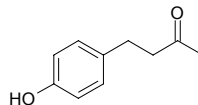
10613 (S)-4-(4-Hydroxyphenyl)-2-butanol 2-O-sulfate

$C_{10}H_{14}O_5S$ (246.28). Hygroscopic white amorphous powder, $[\alpha]_D^{25} = +20.9^\circ$ ($c = 1.3$, MeOH). **Source:** MA SHI DA HUANG *Rheum maximowiczii* (root). **Ref:** 5136.



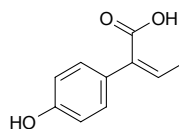
10614 4-(4-Hydroxyphenyl)-2-butanone

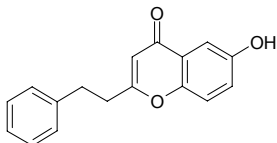
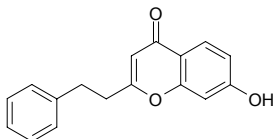
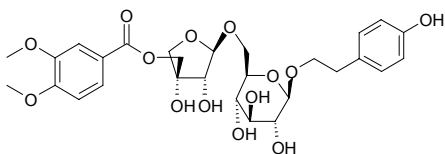
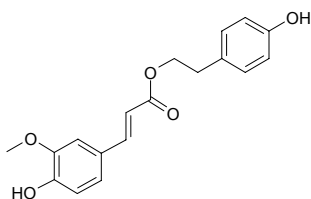
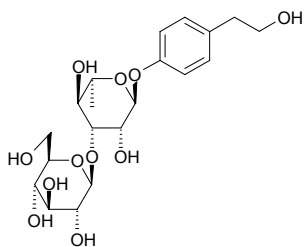
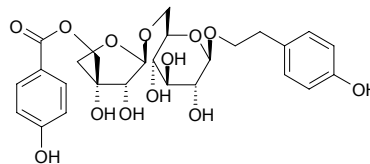
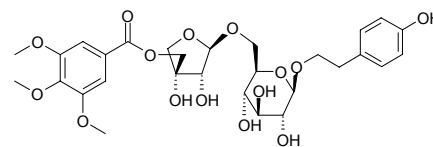
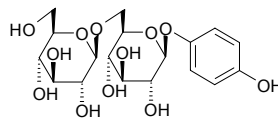
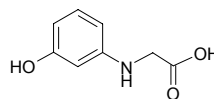
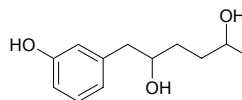
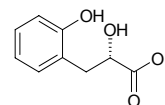
$C_{10}H_{12}O_2$ (164.21). **Source:** MAO GUO QI *Acer nikoense* (stem cortex). **Ref:** 4304.



10615 p-Hydroxyphenyl crotonic acid

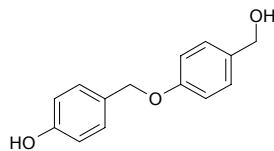
$C_{10}H_{10}O_3$ (178.19). **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 660.



10616 6-Hydroxy-2-(2-phenylethyl) chromone[84294-90-6] C₁₇H₁₄O₃ (266.30). Colorless acicular crystals, mp 214~215°C.Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13, 660.**10617 7-Hydroxy-2-(2-phenylethyl)chromone**C₁₇H₁₄O₃ (266.30). Colorless needles, mp 163~164°C (MeOH). Source:CHEN XIANG *Aquilaria agallocha*. Ref: 4173.**10618 2-(4-Hydroxyphenyl)ethyl 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**C₂₈H₃₆O₁₄ (596.59). Amorphous powder, [α]_D²² = -51.6° (c = 2.15, MeOH).Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 31.1 μg/mL, control *L*-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). Ref: 3817, 4473.**10619 (4-Hydroxyphenyl)ethyl trans-ferulate**C₁₈H₁₈O₅ (314.34). Source: XIONG RUI ZHUANG ZHI GUAN CAO*Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0010%dw). Ref: 3053.**10620 4-Hydroxyphenylethyl 4-O-β-D-glucopyranosyl-(1→3)-O-α-L-rhamnopyranoside**C₂₀H₃₀O₁₁ (446.16). Amorphous powder, [α]_D²⁷ = -25.1° (c = 3.07, MeOH).Source: CAO MAO JIA DU JUAN *Barleria strigosa*. Ref: 4288.**10621 2-(4-Hydroxyphenyl)ethyl-1-O-β-D-[5-O-(4-hydroxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**C₂₆H₃₂O₁₃ (552.54). Colorless amorphous solid, [α]_D²⁵ = -26.2° (c = 0.029, MeOH). Pharm:NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 22.0 μg/mL, control *L*-NMMA, IC₅₀ = 27.4 μg/mL). Source:HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). Ref: 4473.**10622 2-(4-Hydroxyphenyl)ethyl 1-O-β-D-[5-O-(3,4,5-trimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**C₂₉H₃₈O₁₅ (626.62). Amorphous powder, [α]_D²² = -54° (c = 0.51, MeOH). Source:BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.**10623 4-Hydroxyphenyl-β-gentiobioside**C₁₈H₂₆O₁₂ (434.40). Source: YUE JU YE *Vaccinium vitis-idaea*. Ref: 6.**10624 m-Hydroxyphenylglycine**C₈H₉NO₃ (167.17). Source: ZE QI *Euphorbia helioscopia*. Ref: 6.**10625 1-(3-Hydroxyphenyl)-hexane-2,5-diol**C₁₂H₁₈O₃ (210.28). White solid, [α]_D²⁰ = -5.7° (c = 0.40, MeOH). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem). Ref: 5057.**10626 (2S)-(O-Hydroxyphenyl)lactate**C₉H₉O₄⁻ (181.17). Colorless powder, [α]_D = +77° (c = 0.07, MeOH). Pharm: Tyrosinase inhibitor (333.3 μmol/L, InRt = 7.5%; control Kojic acid, 333.3 μmol/L, InRt = 59.8%). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

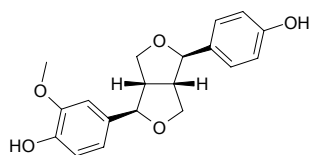
10627 4-[(4-hydroxyphenyl)methoxy]benzenemethanol

$C_{14}H_{14}O_3$ (230.27). Colorless flake crystals, mp 132~134°C. Source: AO SHE LAN *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*]. Ref: 2248.

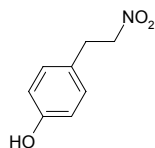
**10628 (1S,2R,5S,6R)-2-(4-Hydroxyphenyl)-6-(3-methoxy-4-hydroxyphenyl)-3,7-dioxabicyclo[3.3.0]octane**

$C_{19}H_{20}O_5$ (328.37). White amorphous solid, $[\alpha]_D^{23} = -66.9^\circ$ ($c = 0.28$, $CHCl_3$).

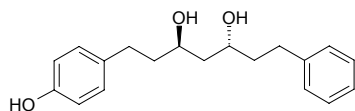
Pharm: Inhibits inducible nitric oxide synthase (iNOS) expression (lipopolysaccharide (LPS)-induced, RAW264.7 cells). Source: DUAN SHE GU *Balanophora abbreviata*. Ref: 2582.

**10629 2-(4-Hydroxyphenyl)-1-nitroethane**

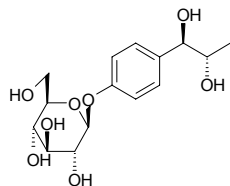
$C_8H_9NO_3$ (167.17). Pale yellow oil. Pharm: Antibacterial inactive (TLC, *Bacillus subtilis*, *Staphylococcus aureus*, *Escherichia coli*, 31.4 μ g/cm²); antifungal inactive (TLC, *Candida albicans*, *Fusarium oxysporum*, *Cladosporium herbarum*, 31.4 μ g/cm²). Source: MEI ZHOU GUAN YIN LIAN *Lysichitum americanum* (leaf). Ref: 3897.

**10630 (3R,5R)-1-(4-Hydroxyphenyl)-7-phenyl-3,5-heptanediol**

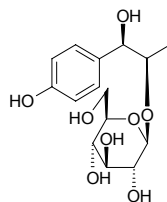
$C_{19}H_{24}O_3$ (300.4). Pharm: Antiemetic (young male chicks, copper sulfate induced emesis assay, 50mg/kg, InRt = 37.7%, $p < 0.001$). Source: GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.0017%dw). Ref: 4649.

**10631 erythro-1'-(4-Hydroxyphenyl)propane-1',2'-diol-4-O-β-D-glucopyranoside**

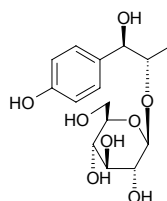
$C_{15}H_{22}O_8$ (330.34). Amorphous powder, $[\alpha]_D^{22} = -38^\circ$ ($c = 0.7$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**10632 (1'R,2'R)-1'-(4-Hydroxyphenyl)propane-1',2'-diol-2'-O-β-D-glucopyranoside**

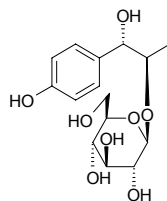
$C_{15}H_{22}O_8$ (330.34). Amorphous powder, $[\alpha]_D^{22} = -51^\circ$ ($c = 0.8$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**10633 (1'R,2'S)-1'-(4-Hydroxyphenyl)propane-1',2'-diol-2'-O-β-D-glucopyranoside**

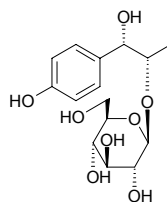
$C_{15}H_{22}O_8$ (330.34). Amorphous powder, $[\alpha]_D^{21} = -33^\circ$ ($c = 0.3$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

**10634 (1'S,2'R)-1'-(4-Hydroxyphenyl)propane-1',2'-diol-2'-O-β-D-glucopyranoside**

$C_{15}H_{22}O_8$ (330.34). Amorphous powder, $[\alpha]_D^{21} = -16^\circ$ ($c = 0.2$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

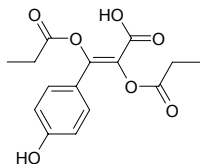
**10635 (1'S,2'S)-1'-(4-Hydroxyphenyl)propane-1',2'-diol-2'-O-β-D-glucopyranoside**

$C_{15}H_{22}O_8$ (330.34). Amorphous powder, $[\alpha]_D^{22} = +21^\circ$ ($c = 1.0$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.

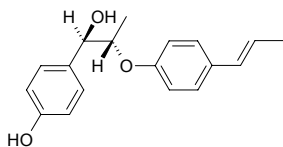


10636 3-(4-Hydroxyphenyl)-trans-propenoic acid-2,3-dihydroxypropyl ester

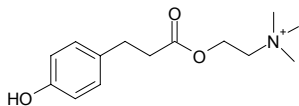
$C_{15}H_{16}O_7$ (308.29). Source: PU HUANG *Typha angustata*. Ref: 2.

**10637 threo-(7S,8R)-1-(4-Hydroxyphenyl)-2-[4-(E)-propenylphenoxy]-propan-1-ol**

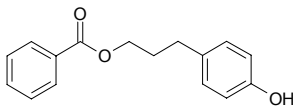
$C_{18}H_{20}O_3$ (284.36). Yellow oil; $[\alpha]_D^{20} = +24.99^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Inhibitory activity against NFAT transcription ($IC_{50} = (15.6 \pm 0.4) \mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01) \mu\text{mol/L}$). Source: HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. Ref: 2536.

**10638 3-(4-Hydroxyphenyl)propionyl choline**

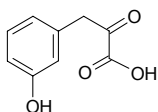
$C_{14}H_{22}NO_3^+$ (252.34). Amorphous solid. Pharm: Tyrosine kinase inhibitor ($IC_{50} = 508 \mu\text{mol/L}$, interleukin-2 inducible T-cell kinase). Source: MO LEI NAN YANG SHEN *Polyscias murrayi*. Ref: 5252.

**10639 3'-(4''-Hydroxyphenyl)-propyl benzoate**

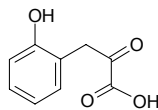
$C_{16}H_{16}O_3$ (256.30). Pale yellow oil. Pharm: Antifungal (*Candida albicans*, $IC_{50} = (5.36 \pm 0.01) \mu\text{g/mL}$, control Amphotericin B, $IC_{50} = (0.04 \pm 0.00) \mu\text{g/mL}$); Anti-inflammatory (COX-1 inhibitor, inactive, control Aspirin, $IC_{50} = (4.22 \pm 0.48) \mu\text{g/mL}$; COX-2 inhibitor, $IC_{50} = (1.88 \pm 0.17) \mu\text{g/mL}$, Aspirin, $IC_{50} = (13.66 \pm 0.59) \mu\text{g/mL}$). Source: *Croton hutchinsonianus* (branche: yield = 0.0005%dw). Ref: 1571.

**10640 m-Hydroxyphenylpyruvic acid**

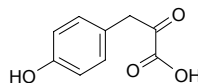
$C_9H_8O_4$ (180.16). Source: NING MENG GEN *Citrus limon*. Ref: 6.

**10641 o-Hydroxyphenylpyruvic acid**

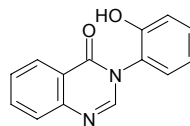
$C_9H_8O_4$ (180.16). Source: NING MENG GEN *Citrus limon*. Ref: 6.

**10642 p-Hydroxyphenylpyruvic acid**

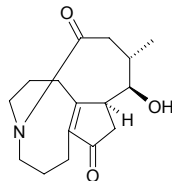
[156-39-8] $C_9H_8O_4$ (180.16). mp 220°C . Source: LI MENG GEN *Citrus limonia*. Ref: 6.

**10643 3-(2'-Hydroxyphenyl)-4-(3H)-quinazolinone**

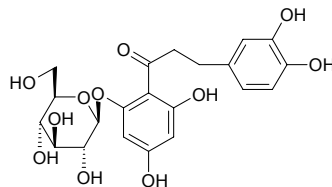
$C_{14}H_{10}N_2O_2$ (238.25). White granular solid. Source: BAN LAN GEN *Isatis indigotica*. Ref: 2161.

**10644 8β-Hydroxy phlegmariurine B**

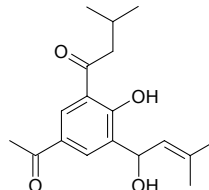
$C_{15}H_{21}NO_3$ (263.34). Colorless needles (alcohol), mp $281\sim 283^\circ\text{C}$, $[\alpha]_D^{25} = -205^\circ$ ($c = 0.20$, alcohol). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 2471.

**10645 3-Hydroxyphlorizin**

$C_{21}H_{24}O_{11}$ (452.42). Source: DUO SUI SHI KE YE *Lithocarpus polystachyus*. Ref: 660.

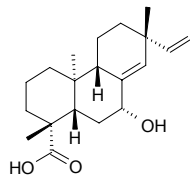
**10646 Hydroxypiloselloidone**

[54963-61-0] $C_{18}H_{24}O_4$ (304.39). Oil, $[\alpha]_D^{24} = -50.4^\circ$ ($c = 4.46$, $CHCl_3$). Source: MAO DA DING CAO *Gerbera piloselloides* (root). Ref: 6, 660.

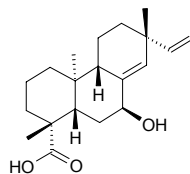


10647 7 α -Hydroxy-L-pimara-8(14),15-dien-19-oic acid

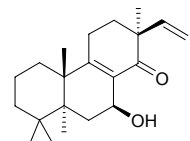
[23807-89-8] C₂₀H₃₀O₃ (318.46). mp 292~294°C (dec), [α]_D = -70.4° (pyridine). Source: TU DANG GUI *Aralia cordata*. Ref: 6, 1521.

**10648 7 β -Hydroxy-L-pimara-8(14),15-dien-19-oic acid**

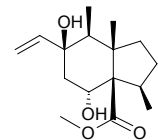
[23807-91-2] C₂₀H₃₀O₃ (318.46). mp 218°C, [α]_D = -62.8° (pyridine). Source: TU DANG GUI *Aralia cordata*. Ref: 6, 1521.

**10649 7 β -Hydroxypimara-8,15-dien-14-one**

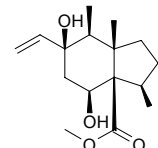
C₂₀H₃₀O₂ (302.46). Viscous oil, [α]_D²⁵ = +77° (c = 0.2, MeOH). Source: *Strychnos vanprukii* (stem). Ref: 3471.

**10650 7 α -Hydroxypinguisenol-12-methyl ester**

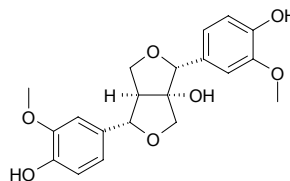
C₁₆H₂₆O₄ (282.38). Colorless amorphous powder, [α]_D²² = -72.1° (c = 0.51, CHCl₃). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

**10651 7 β -Hydroxypinguisenol-12-methyl ester**

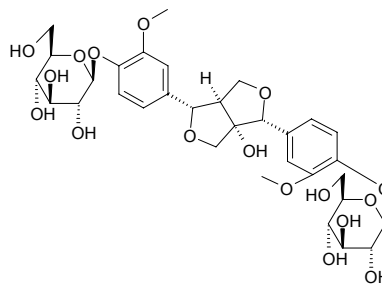
C₁₆H₂₆O₄ (282.38). Colorless amorphous powder, [α]_D²² = -44.2° (c = 0.52, CHCl₃). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

**10652 (+)-1-Hydroxypinoresinol**

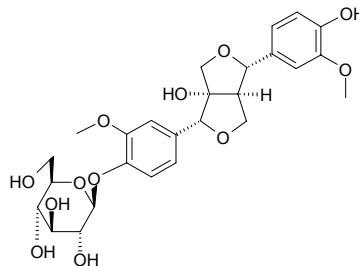
8'-Hydroxypinoresinol C₂₀H₂₂O₇ (374.39). Pharm: Antitubercular (*Mycobacterium tuberculosis*, MIC > 128 μ g/mL, cytotoxic, Vero cells, IC₅₀ = 96.9 μ g/mL, positive control Rifampin, MIC = 0.03 μ g/mL, IC₅₀ = 98.3 μ g/mL, SI = 3300)^[4986]. Source: SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), XIE CAO *Valeriana officinalis* (root). Ref: 4656, 4986.

**10653 (+)-1-Hydroxypinoresinol-4',4''-di-O- β -D-glucopyranoside**

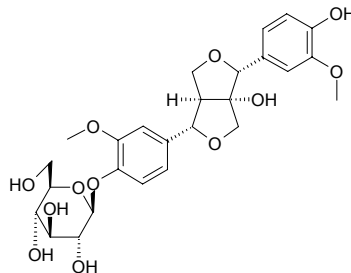
C₃₂H₄₂O₁₇ (698.68). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**10654 (+)-1-Hydroxypinoresinol-4'-O- β -D-glucopyranoside**

8'-Hydroxypinoresinol-4'-O- β -D-glucoside C₂₆H₃₂O₁₂ (536.54). Source: DU ZHONG *Eucommia ulmoides*, XIE CAO *Valeriana officinalis* (root)^[4656]. Ref: 2, 4656.

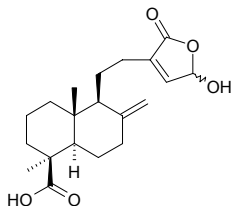
**10655 (+)-1-Hydroxypinoresinol-4''-O- β -D-glucopyranoside**

8-Hydroxypinoresinol-4''-O- β -D-glucoside C₂₆H₃₂O₁₂ (536.54). Source: DU ZHONG *Eucommia ulmoides*, XIE CAO *Valeriana officinalis* (root)^[4656]. Ref: 2, 4656.

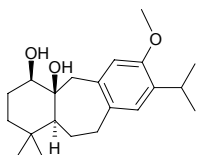


10656 15 ξ -Hydroxypinusolidic acid

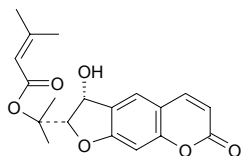
$C_{20}H_{28}O_5$ (348.44). Colorless oil, $[\alpha]_D^{25} = +30^\circ$ ($c = 0.65$, $CHCl_3$), $[\alpha]_D^{25} = +30.5^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, $IC_{50} = (51 \pm 3)\mu g/mL = (145 \pm 9)\mu mol/L$). **Source:** CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 3022.

**10657 1 β -Hydroxypisiferanol**

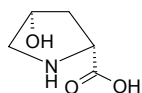
$C_{21}H_{32}O_3$ (332.49). Needles, $[\alpha]_D^{25} = +30.5^\circ$ ($c = 0.35$, MeOH). **Source:** HONG GUI *Chamaecyparis formosensis*. **Ref:** 2315.

**10658 (+)-(2'S,3'R)-3'-Hydroxyprantschimgin**

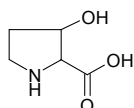
$C_{19}H_{20}O_6$ (344.37). mp 177~179°C (CCl_4), $[\alpha]_D^{20} = +15^\circ$ ($c = 1.2$, $CHCl_3$). **Source:** DUAN LIE PIAN LEI A WEI *Ferulago brachyloba* (root), JU MAO LEI A WEI *Ferulago capillaries* (root). **Ref:** 3938.

**10659 cis-4-Hydroxyproline**

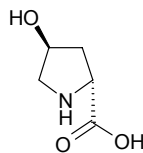
$C_5H_9NO_3$ (131.13). mp D(+) 237~241°C, L(-) 238~241°C, DL 250°C. **Source:** TAN XIANG *Santalum album*. **Ref:** 6.

**10660 3-Hydroxyproline**

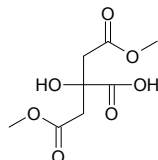
4-Hydroxy-2-pyrrolidinecarboxylic acid $C_5H_9NO_3$ (131.13). mp (*L-trans*) 228~235°C (dec), (*DL-trans*) 224~230°C, (*L-cis*) 245~255°C (dec), (*DL-cis*) 225~235°C (dec). **Source:** HUANG MING JIAO *Bos taurus domesticus*, WU LI *Ophiocephalus argus*, XIANG GU *Elephas maximus*. **Ref:** 6.

**10661 trans-4-Hydroxyproline**

[51-35-4] $C_5H_9NO_3$ (131.13). mp D(+) 274°C, L(-) 274°C, DL 261°C. **Source:** TAN XIANG *Santalum album*. **Ref:** 6.

**10662 2-Hydroxy-1,2,3-propanetricarboxylic acid-1,3-dimethylester**

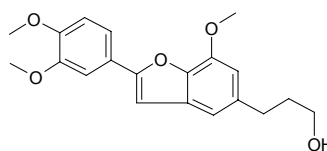
$C_8H_{12}O_7$ (220.18). **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 5319.

**10663 2-Hydroxy-propylene**

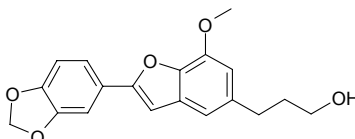
C_3H_6O (58.08). **Source:** DA SUAN *Allium sativum*. **Ref:** 2.

**10664 5-(3''-Hydroxypropyl)-7-methoxy-2-(3',4'-dimethoxyphenyl) benzofuran**

$C_{20}H_{22}O_5$ (342.40). White powder. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 10 $\mu g/mL$., control Chloramphenicol, MIC = 5 $\mu g/mL$); antifungal (*Candida albicans*, MIC = 12 $\mu g/mL$, control Chloramphenicol, MIC = 5 $\mu g/mL$; *Cladosporium sphaerospermum*, MIA = 5 μg , control Nystatin, MIA = 1 μg). **Source:** XIU SE AN XI XIANG *Styrax ferrugineus* (leaf). **Ref:** 5100.

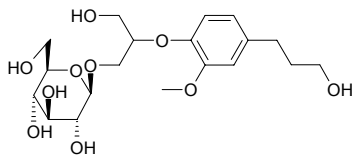
**10665 5-(3''-Hydroxypropyl)-7-methoxy-2-(3',4'-methylenedioxyphenyl) benzofuran**

Egonol [530-22-3] $C_{19}H_{18}O_5$ (326.35). White amorphous powder, plates (butanol), mp 117.5~118°C. **Pharm:** Anticomplement activity ($IC_{50} = 33\mu mol/L$, control Rosmarinic acid $IC_{50} = 182\mu mol/L$)^[4096]; antibacterial (*Staphylococcus aureus*, MIC = 10 $\mu g/mL$., control Chloramphenicol, MIC = 5 $\mu g/mL$)^[5100]; antifungal (*Candida albicans*, MIC = 10 $\mu g/mL$, control Chloramphenicol, MIC = 5 $\mu g/mL$; *Cladosporium sphaerospermum*, MIA = 5 μg , control Nystatin, MIA = 1 μg)^[5100]. **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica*, TAI WAN AN XI XIANG *Styrax formosanus*, XIU SE AN XI XIANG *Styrax ferrugineus* (leaf), YU LING HUA *Styrax obassia*. **Ref:** 1521, 4096, 5100.



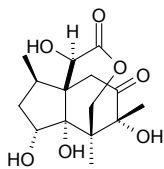
10666 2-[4-(3-Hydroxypropyl)-2-methoxyphenoxy]-1,3-propanediol 1-O-glucoside

$C_{19}H_{30}O_{10}$ (418.44). $[\alpha]_D^{25} = -2.0^\circ$ ($c = 0.10$, MeOH). Source: SHAN FAN GEN *Symplocos caudata*. Ref: 2535.



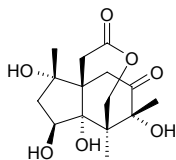
10667 10 β -Hydroxypseudoanisatin

$C_{15}H_{22}O_7$ (314.34). Source: *Illicium merrillianum* (pericarp). Ref: 4257.



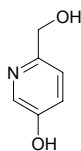
10668 1 α -Hydroxypseudoanisatin

$C_{15}H_{22}O_7$ (314.34). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp; yield = 0.00065%dw). Ref: 4697.



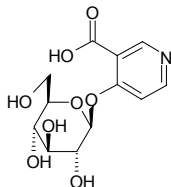
10669 5-Hydroxy-2-pyridinemethanol

$C_6H_7NO_2$ (125.13). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.



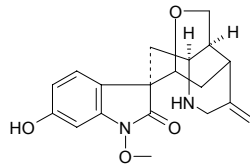
10670 4-Hydroxypyridyl-3-oic acid 4-O-glucopyranoside

$C_{12}H_{15}NO_8$ (301.26). Colorless needles, mp 203–205°C, $[\alpha]_D^{25} = -250.4^\circ$ ($c = 1.35$, MeOH). Source: XIANG SI CAO *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*] (aerial parts). Ref: 5206.



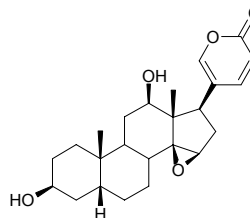
10671 11-Hydroxyrankinidine

[122590-03-8] $C_{20}H_{24}N_2O_4$ (356.43). mp 212–214°C, $[\alpha]_D = -135^\circ$. Source: GOU WEN *Gelsemium elegans*. Ref: 14.



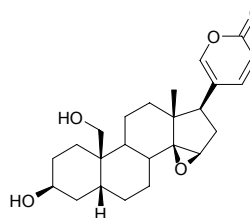
10672 12 β -Hydroxyresibufogenin

$C_{24}H_{32}O_5$ (400.52). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 0.97\mu\text{g/mL}$; HL-60, $IC_{50} = 0.045\mu\text{g/mL}$; MH-60, $IC_{50} > 25\mu\text{g/mL}$; BXPC3, $IC_{50} = 0.12\mu\text{g/mL}$; MCF7, $IC_{50} = 0.066\mu\text{g/mL}$; SF268, $IC_{50} = 0.046\mu\text{g/mL}$; NCI-H460, $IC_{50} = 0.017\mu\text{g/mL}$; KM20L2, $IC_{50} = 0.012\mu\text{g/mL}$; DU145, $IC_{50} = 0.041\mu\text{g/mL}$). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.



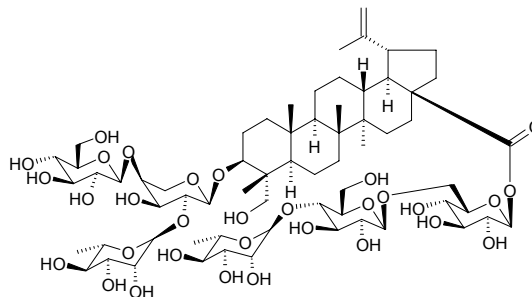
10673 19-Hydroxyresibufogenin

Resibufaginol $C_{24}H_{32}O_5$ (400.52). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 1.2\mu\text{g/mL}$; HL-60, $IC_{50} = 0.48\mu\text{g/mL}$; MH-60, $IC_{50} > 25\mu\text{g/mL}$; BXPC3, $IC_{50} = 0.63\mu\text{g/mL}$; MCF7, $IC_{50} = 0.33\mu\text{g/mL}$; SF268, $IC_{50} = 0.25\mu\text{g/mL}$; NCI-H460, $IC_{50} = 0.44\mu\text{g/mL}$; KM20L2, $IC_{50} = 0.45\mu\text{g/mL}$; DU145, $IC_{50} = 0.38\mu\text{g/mL}$). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.



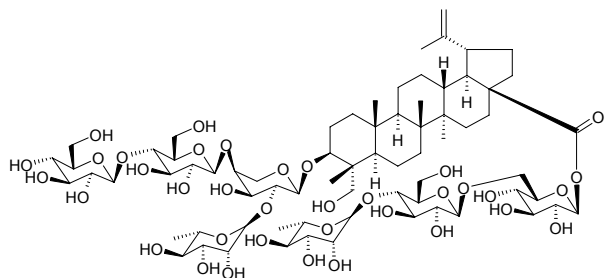
10674 23-Hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl)oxy]lup-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester

$C_{65}H_{106}O_{31}$ (1383.55). Amorphous solid, $[\alpha]_D^{26} = -38.4^\circ$ ($c = 0.10$, MeOH). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 3086.



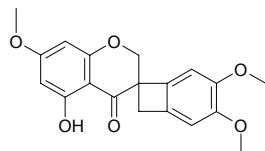
10675 23-Hydroxy-3β-[(O-α-L-rhamnopyranosyl-(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)]-α-L-arabinopyranosyl)oxy]lup-20(29)-en-28-oic acid 28-O-α-L-rhamnopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl ester

C₇₁H₁₁₆O₃₆ (1545.69). Amorphous solid, $[\alpha]_D^{26} = -38.0^\circ$ ($c = 0.10$, MeOH). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 3086.



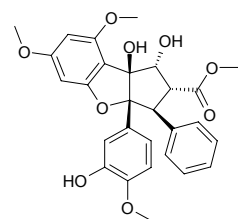
10676 5-Hydroxy-3',4',7-trimethoxyspiro[2H-1-benzopyran-7'-bicyclo[4.2.0]octa[1,3,5]-trien]-4-one

C₁₉H₁₈O₆ (342.35). White powder, mp 150~153°C, $[\alpha]_D^{25} = +60.0^\circ$ ($c = 0.033$, MeOH). Source: HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). Ref: 3368.



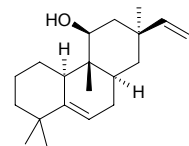
10677 3'-Hydroxyrocaglate

Methyl 3'-hydroxyaglafolin [222854-54-8] C₂₈H₂₈O₉ (508.53). $[\alpha]_D^{20} = -54.9^\circ$ ($c = 0.18$, CHCl₃). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, EC₅₀ = 0.27mg/L, LC₅₀ = 1.1mg/L, control Azadirachtin, EC₅₀ = 0.06mg/L, LC₅₀ = 0.7mg/L)^[3978]. Source: MI ZI LAN *Aglaia odorata*, *Aglaia spectabilis* (bark), *Aglaia duperreana*. Ref: 2289, 3978.



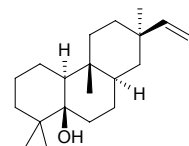
10678 11β-Hydroxy-rosa-5,15-diene

C₂₀H₃₂O (288.48). Source: *Gackstroemia decipiens*. Ref: 3907.



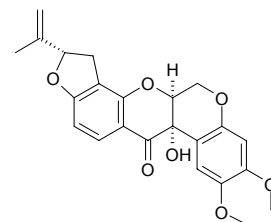
10679 5β-Hydroxy-ros-15-ene

C₂₀H₃₄O (290.49). Source: *Gackstroemia decipiens*. Ref: 3907.



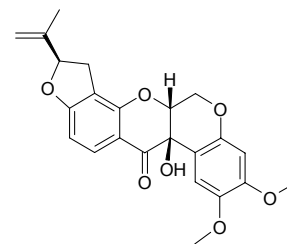
10680 12α-Hydroxyrotenone

Rotenolone [509-96-6] C₂₃H₂₂O₇ (410.43). Yellowish solid, mp 88°C. Pharm: Cytotoxic (KB, ED₅₀ = 0.01~0.30μg/mL); pesticide; acaricide; nematocide (0.1mg/mL cultured with larva of *Toxocara canis*, 3 hours later RM = 33, 6 hours later RM = 0, MLC = 5μmol/L). Source: DI GUA ZI *Pachyrhizus erosus*, HUI YE GEN *Tephrosia purpurea*, KU TAN ZI *Millettia pachycarpa*, *Tephrosia* sp. Ref: 658, 900, 1521.



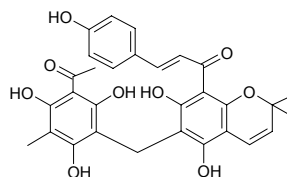
10681 12a-Hydroxyrotenone

C₂₃H₂₂O₇ (410.43). Pharm: Antiviral (HSV-1, 50μg/mL, inactive; HSV-2, 50μg/mL, inactive). Source: DI GUA ZI *Pachyrhizus erosus*. Ref: 4180.



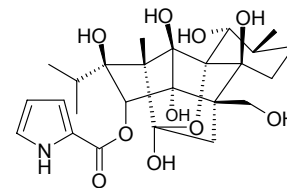
10682 4-Hydroxyrottlerin

[23693-75-7] C₃₀H₂₈O₉ (532.55). mp 208~210°C. Source: LV SONG QIU *Mallotus philippinensis*. Ref: 6, 1521.



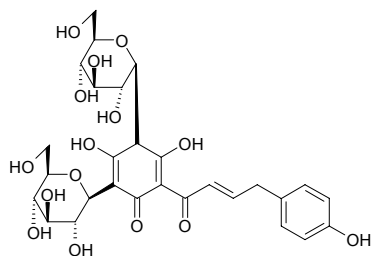
10683 20-Hydroxyryanodine

C₂₅H₃₅NO₁₀ (509.56). Crystals (CHCl₃:MeOH = 3:1), mp 188°C, $[\alpha]_D = +8^\circ$ ($c = 1.0$). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 1100nmol/L). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

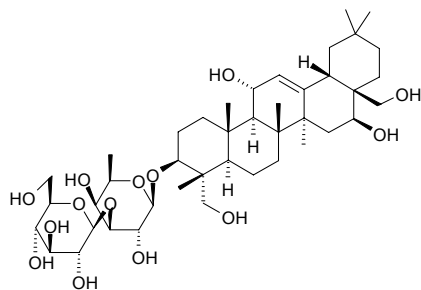


10684 Hydroxysafflor yellow A

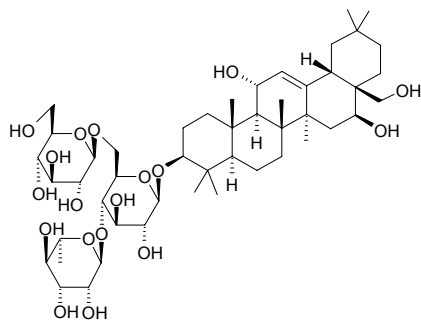
HSYA $C_{28}H_{34}O_{15}$ (610.57). Yellow amorphous powder, $[\alpha]_D^{25} = -54.3^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antithrombotic (markedly extends coagulation time in mouse); neuroprotective (potential exists for development of new agents for treating stroke; *in vivo*: male Wistar-Kyoto (WKY) rats with middle cerebral artery occlusion, sublingual vein injection of HSYA at doses of 3.0mg/kg, HSYA exerts significant neuroprotective effects by significantly decreasing neurological deficit scores and reducing infarct area compared with the saline group; at a dose of 6.0mg/kg, HSYA shows similar potency as 0.2mg/kg Nimodipine; *in vitro*: cultured fetal cortical cells, inhibits neuron damage glutamate-induced and NaCN-induced, for glutamate-induced case, effect is much better than that of NaCN-induced neuron damage). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 5395.

**10685 Hydroxysaikosaponin A**

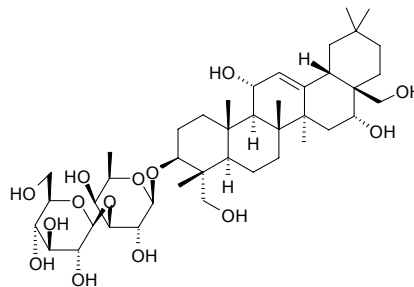
$C_{42}H_{70}O_{14}$ (799.02). **Source:** ZI HU *Bupleurum falcatum*. **Ref:** 2247.

**10686 Hydroxysaikosaponin C**

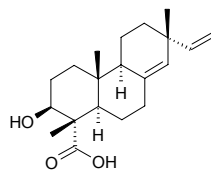
$C_{48}H_{80}O_{18}$ (945.16). **Source:** ZI HU *Bupleurum falcatum*. **Ref:** 2247.

**10687 Hydroxysaikosaponin D**

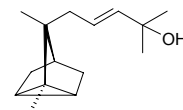
$C_{42}H_{70}O_{14}$ (799.02). **Source:** ZI HU *Bupleurum falcatum*. **Ref:** 2247.

**10688 3β-Hydroxysandara copimarinic acid**

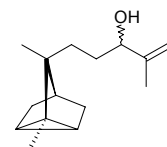
[59219-64-6] $C_{20}H_{30}O_3$ (318.46). mp 261°C. **Pharm:** Anti-HIV-1 inactive (*in vitro*)^[4234]. **Source:** DU SONG SHI *Juniperus rigida*, XI FANG CI BAI *Juniperus occidentalis* (leaf). **Ref:** 6, 1521, 4234.

**10689 11-Hydroxy-α-santal-9-ene**

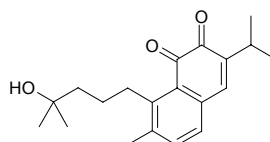
α-Photosantalol A $C_{15}H_{24}O$ (220.36). Oil, $[\alpha]_D = +22.4^\circ$ ($c = 4.8$, $CHCl_3$). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

**10690 10ξ-Hydroxy-α-santal-11-ene**

α-Photosantalol B diastereoisomer $C_{15}H_{24}O$ (220.36). Oil, $[\alpha]_D = +0.9^\circ$ ($c = 6.0$, $CHCl_3$). **Source:** DU AI BA JIAO *Illicium tsangii*. **Ref:** 1866.

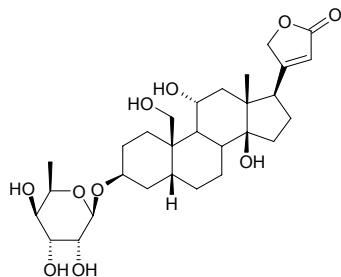
**10691 4-Hydroxysaprorthoquinone**

$C_{20}H_{26}O_3$ (314.43). Red syrup. **Pharm:** Topoisomerase I inhibitor (*in vitro*, $IC_{50} = 0.8 \mu\text{mol/L}$). **Source:** HONG GEN CAO *Salvia prionitis* (root; yield = 0.0012%dw). **Ref:** 4635.

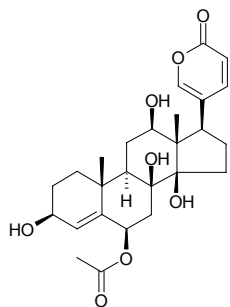


10692 19-Hydroxy-sarmentogenin-3 β -O- β -6-deoxyglucoside

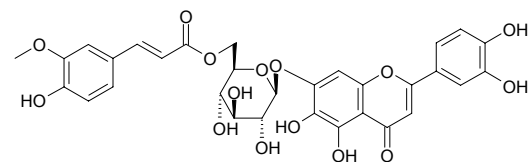
C₂₉H₄₄O₁₀ (552.67). White powder, $[\alpha]_D^{24} = -36.0^\circ$ ($c = 1.0$, MeOH). **Pharm:** Cytotoxic (KB, IC₅₀ = (0.199±0.008)μmol/L, control Podophyllotoxin, IC₅₀ = 0.014μmol/L). **Source:** GAO MEI YING BAN *Crossopetalum gaumeri* (root). **Ref:** 3969.

**10693 12 β -Hydroxyscillirosidin**

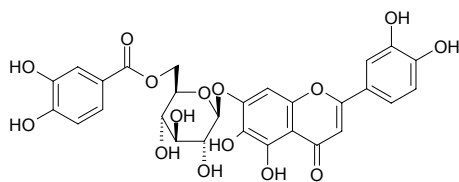
6 β -Acetoxy-3 β ,8 β ,12 β ,14 β -tetrahydroxybufa-4,20,22-trienolide C₂₆H₃₄O₈ (474.56). Powdery solid. **Source:** GAO HAI CONG *Urginea altissima* (bulb), *Drimia robusta* (bulb). **Ref:** 5193.

**10694 3'-Hydroxyscutellarein 7-O-(6''-O-trans-feruloyl)- β -glucopyranoside**

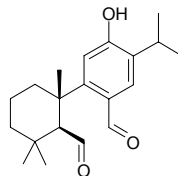
C₃₁H₂₈O₁₅ (640.56). Pale yellow amorphous powder, $[\alpha]_D^{23} = -151.2^\circ$ ($c = 0.16$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, DPPH radical 15μmol/L: 10μmol/L, ScRt = 49.1%; control BHA, 10μmol/L, ScRt = 23.0%; Vitamin E, 10μmol/L, ScRt = 41.1%). **Source:** JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*. **Ref:** 3846.

**10695 3'-Hydroxyscutellarein 7-O-(6''-O-protocatechuoyl)- β -glucopyranoside**

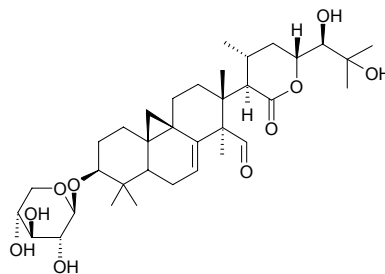
C₂₈H₂₄O₁₅ (600.49). Pale yellow amorphous powder, $[\alpha]_D^{23} = -199.3^\circ$ ($c = 0.43$, pyridine). **Pharm:** Antioxidant (DPPH scavenger, DPPH radical 15μmol/L: 10μmol/L, ScRt = 50.0%; control BHA, 10μmol/L, ScRt = 23.0%; Vitamin E, 10μmol/L, ScRt = 41.1%). **Source:** JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*. **Ref:** 3846.

**10696 12-Hydroxy-6,7-secoabieta-8,11,13-triene-6,7-dial**

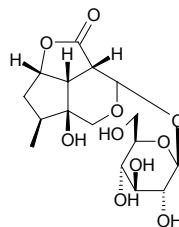
[28767-65-9] C₂₀H₂₈O₃ (316.44). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). **Ref:** 4298.

**10697 24-Hydroxy-15,16-seco-cycloart-7-en 3-O-xyloside**

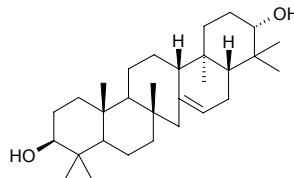
C₃₅H₅₄O₁₀ (634.81). White needles, $[\alpha]_D = -39.8^\circ$ (MeOH). **Source:** *Cimicifuga* sp. (rhizome). **Ref:** 4396.

**10698 9-Hydroxysemperoside**

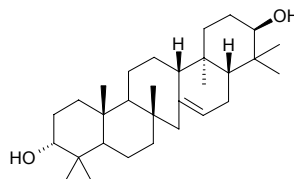
C₁₆H₂₄O₁₀ (376.36). Colorless needles, mp 132~134°C. **Source:** CHANG LV GOU WEN *Gelsemium sempervirens*, MA BIAN CAO *Verbena officinalis* (while herb). **Ref:** 1521, 4902.

**10699 21 α -Hydroxyserrat-14-en-3 β -ol**

C₃₀H₅₀O₂ (442.73). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.0017%dw). **Ref:** 4729.

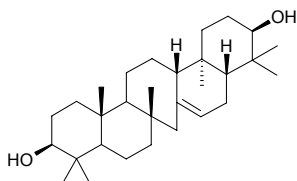
**10700 21 β -Hydroxyserrat-14-en-3 α -ol**

C₃₀H₅₀O₂ (442.73). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00027%dw). **Ref:** 4729.

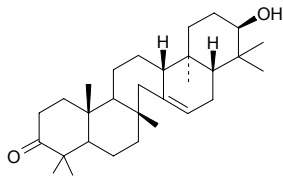


10701 21 β -Hydroxyserrat-14-en-3 β -ol

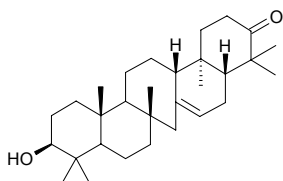
C₃₀H₅₀O₂ (442.73). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.0048%dw). Ref: 4729.

**10702 21 β -Hydroxyserrat-14-en-3-one**

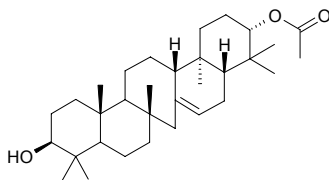
C₃₀H₄₈O₂ (440.72). Source: RI BEN YU LIN SONG *Picea jezoensis* (cuticle). Ref: 3076.

**10703 3 β -Hydroxyserrat-14-en-21-one**

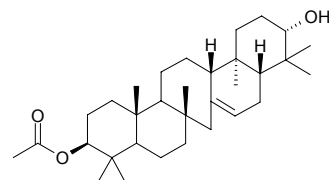
C₃₀H₄₈O₂ (440.72). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00033%dw). Ref: 4729.

**10704 3 β -Hydroxyserrat-14-en-21 α -yl acetate**

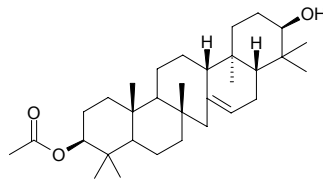
C₃₂H₅₂O₃ (484.77). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00096%dw). Ref: 4729.

**10705 21 α -Hydroxyserrat-14-en-3 β -yl acetate**

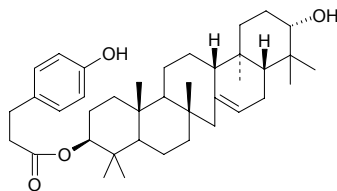
C₃₂H₅₂O₃ (484.77). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00006%dw). Ref: 4729.

**10706 21 β -Hydroxyserrat-14-en-3 β -yl acetate**

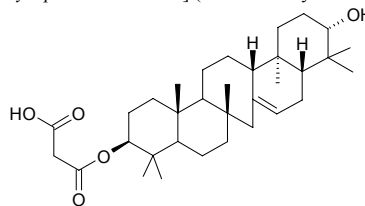
C₃₂H₅₂O₃ (484.77). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00014%dw). Ref: 4729.

**10707 21 α -Hydroxyserrat-14-en-3 β -yl *p*-dihydrocoumarate**

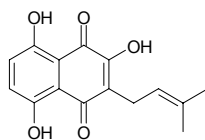
C₃₉H₅₈O₄ (590.89). Colorless needles (CHCl₃-CH₃OH), mp 296–298°C, [α]_D²⁰ = -20.5° (c = 0.47, C₅D₅N). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000092%dw). Ref: 4729.

**10708 21 α -Hydroxyserrat-14-en-3 β -yl propanedioic acid monoester**

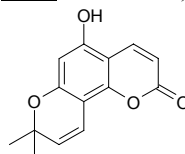
C₃₃H₅₂O₅ (528.78). White powder (CHCl₃-CH₃OH), mp 306–310°C, [α]_D²⁰ = -19° (c = 0.23, C₅D₅N). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.0001%dw). Ref: 4729.

**10709 Hydroxysesamone**

2,5,8-Trihydroxy-3-(3-methyl-2-butenyl)-1,4-naphthoquinone C₁₅H₁₄O₅ (274.28). Red needles (*n*-hexane-CHCl₃), mp 145–146°C. Pharm: Antifungal (*Cladosporium fulvum*, 1 μ g/spot). Source: HU MA GEN *Sesamum indicum*. Ref: 5234.

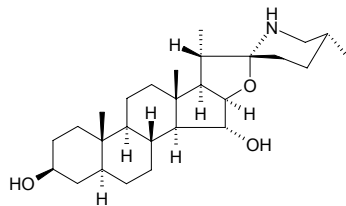
**10710 5-Hydroxyseselin**

C₁₄H₁₂O₄ (244.25). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (43.7 \pm 1.6)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%), compound IC₅₀ = 430mol ratio/32 pmol TPA, β -Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA). Source: *Citrus sulcata*, *Citrus tamarana*. Ref: 5048.

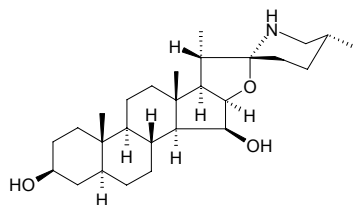


10711 15 α -Hydroxysoladulcidine

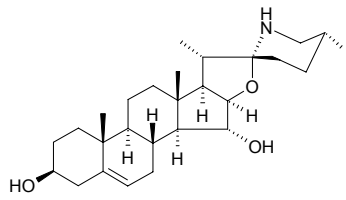
[16137-74-9] C₂₇H₄₅NO₃ (431.66). mp 167~168°C, mp 209~212 °C (double mp). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 660.

**10712 15 β -Hydroxysoladulcidine**

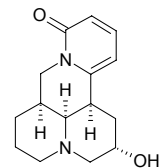
[16137-76-1] C₂₇H₄₅NO₃ (431.66). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 1521.

**10713 15 α -Hydroxysolasodine**

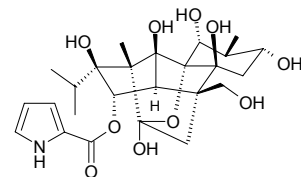
C₂₇H₄₃NO₃ (429.65). Prisms, mp 212~216°C, [α]_D²¹ = -84.5° (c = 0.68, CHCl₃). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 1521.

**10714 9 α -Hydroxysophoramine**

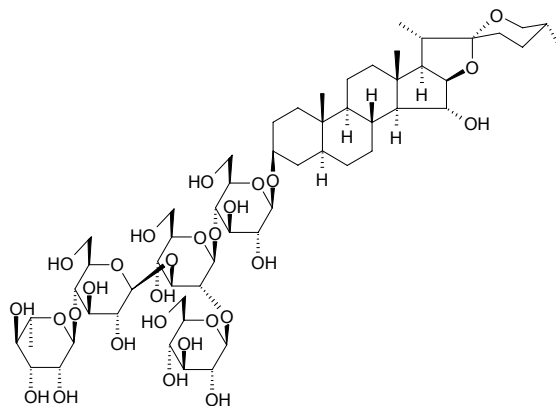
C₁₅H₂₀N₂O₂ (260.34). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2, 1521.

**10715 8 α -Hydroxyspiganthine**

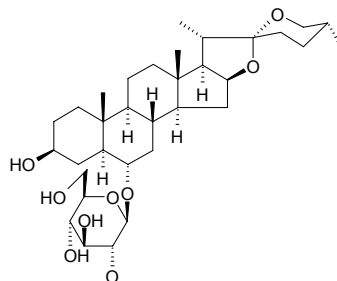
C₂₅H₃₅NO₁₀ (509.56). Crystals (CHCl₃:Me₂CO = 3:1), mp 255~257°C, [α]_D = +26° (c = 0.1). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**10716 (25R)-15 α -Hydroxy-5 α -spirostan-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside**

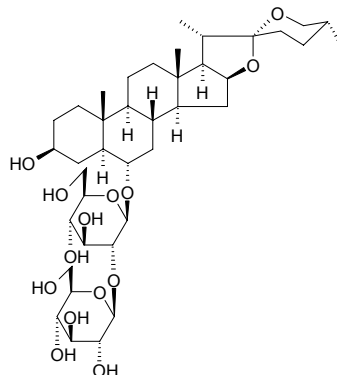
C₅₇H₉₄O₂₈ (1227.37). Amorphous solid, [α]_D²⁵ = -36.0° (c = 0.10, MeOH). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 7.7 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 43 μ g/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.

**10717 (25R)-3 β -Hydroxy-5 α -spirostan-6 α -yl O- β -D-glucopyranoside**

C₃₃H₅₄O₉ (594.79). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 70 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 148 μ g/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.

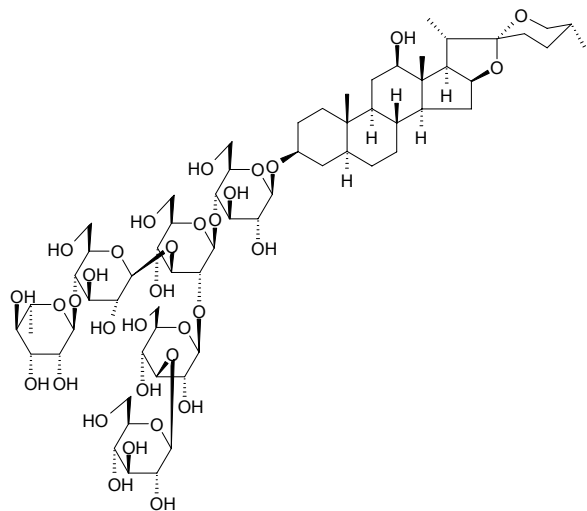
**10718 (25R)-3 β -Hydroxy-5 α -spirostan-6 α -yl O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside**

C₃₉H₆₄O₁₄ (756.94). Pharm: Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 102 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 183 μ g/mL). Source: *Camassia leichtlinii* (bulb). Ref: 3535.



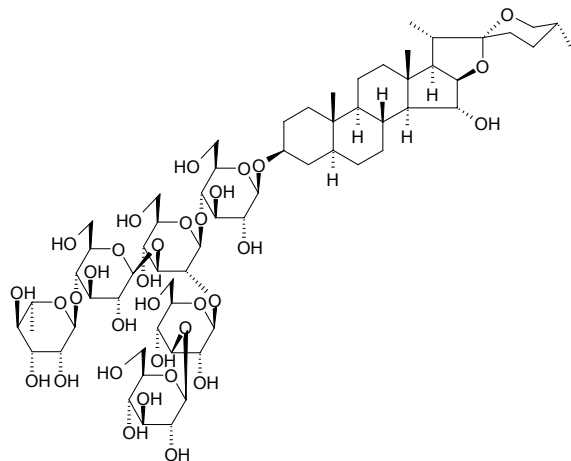
10719 (25R)-12 β -Hydroxy-5 α -spirostan-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₆₃H₁₀₄O₃₃ (1389.51). Amorphous solid, $[\alpha]_D^{25} = -44.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 17 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 19 μ g/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



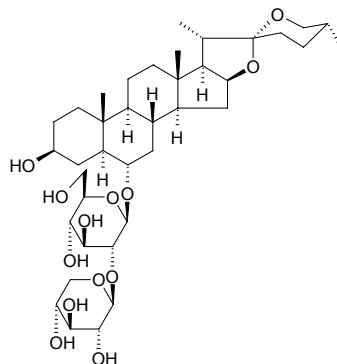
10720 (25R)-15 α -Hydroxy-5 α -spirostan-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₆₃H₁₀₄O₃₃ (1389.51). Amorphous solid, $[\alpha]_D^{25} = -40.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 8.8 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 12 μ g/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



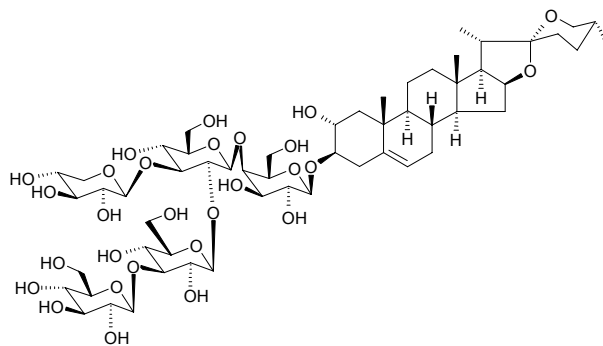
10721 (25R)-3 β -Hydroxy-5 α -spirostan-6 α -yl O- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside

C₃₈H₆₂O₁₃ (726.91). Amorphous solid, $[\alpha]_D^{25} = -28.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (hmn oral squamous cell HSC-2, LD₅₀ = 120 μ g/mL; normal hmn gingival fibroblast HGF cell, LD₅₀ = 135 μ g/mL). **Source:** *Camassia leichtlinii* (bulb). **Ref:** 3535.



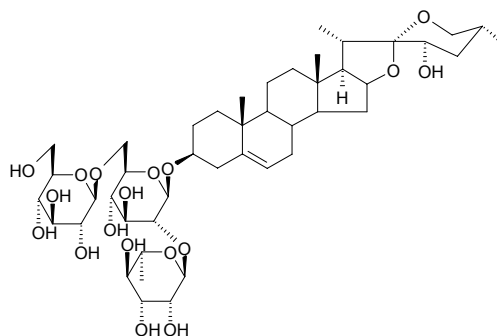
10722 (25R)-2 α -Hydroxyspirost-5-en-3 β -yl O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside

C₅₆H₉₀O₂₈ (1211.32). **Pharm:** Cytotoxic (HSC-2 cells, LD₅₀ = 2.7 μ g/mL; HGF, LD₅₀ = 31 μ g/mL). **Source:** YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.112%fw). **Ref:** 3023.

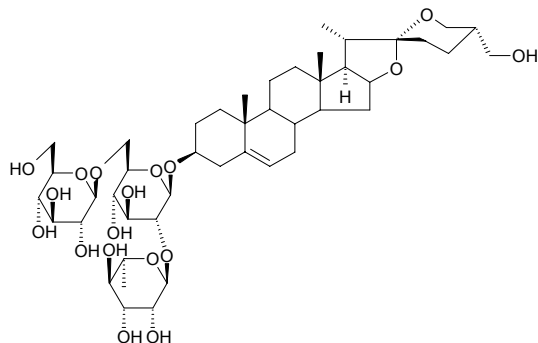


10723 (23S,25R)-23-Hydroxyspirost-5-en-3 β -yl-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside

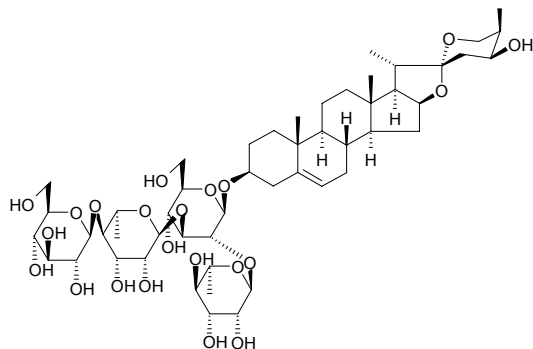
[244160-61-0] C₄₅H₇₂O₁₈ (901.06). Amorphous solid, $[\alpha]_D^{26} = -41.5^\circ$ ($c = 0.23$, pyridine). **Source:** QING LIANG BAI HE *Lilium candidum*. **Ref:** 2303.



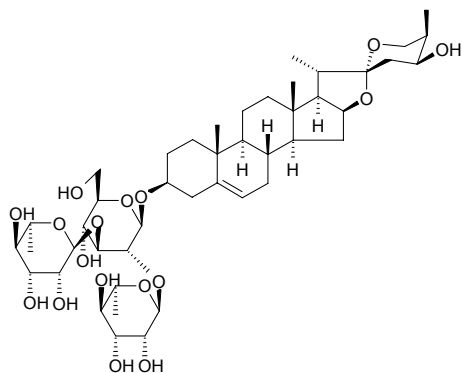
10724 (25S)-27-Hydroxyspirost-5-en-3 β -yl-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside
 [244160-60-9] C₄₅H₇₂O₁₈ (901.06). Amorphous solid, $[\alpha]_D^{27} = -44.2^\circ$ ($c = 0.12$, MeOH:H₂O = 1:1) Source: QING LIANG BAI HE *Lilium candidum*. Ref: 2303.



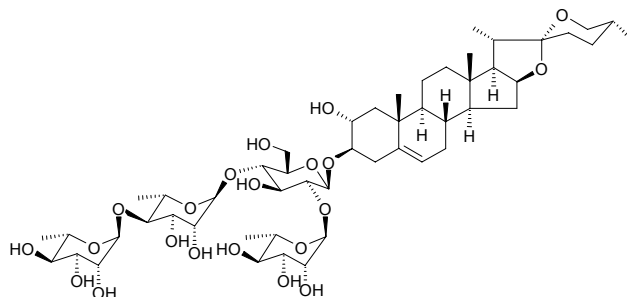
10725 (24S,25R)-24-Hydroxyspirost-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside
 C₅₁H₈₂O₂₂ (1047.21). Amorphous solid, $[\alpha]_D^{25} = -108.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Pharm: Cytotoxic (hmn, HL-60 promyelocytic leukemia cells, 10 μ g/mL, InRt > 50%). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2026.



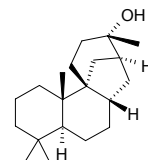
10726 (24S,25R)-24-Hydroxyspirost-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside
 C₄₅H₇₂O₁₇ (885.07). Amorphous solid, $[\alpha]_D^{25} = -112.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Pharm: Cytotoxic (hmn, HL-60 promyelocytic leukemia cells, 10 μ g/mL, InRt > 50%). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2026.



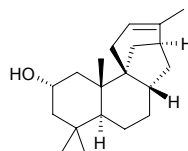
10727 (25R)-2 α -Hydroxyspirost-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside
 C₅₁H₈₂O₂₁ (1031.21). Amorphous powder, $[\alpha]_D^{24} = -93.3^\circ$ ($c = 0.12$, CHCl₃:MeOH = 1:1). Pharm: Cytotoxic (HSC-2 cells, LD₅₀ = 5.5 μ g/mL; HGF, LD₅₀ = 9.1 μ g/mL). Source: YE XIANG SHU *Cestrum nocturnum* (leaf; yield = 0.00073%fw). Ref: 3023.



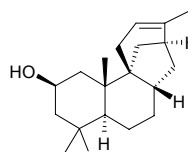
10728 13 β -Hydroxystemodane
 C₂₀H₃₄O (290.49). Amorphous crystals, mp 126~130°C, $[\alpha]_D^{27} = +2.8^\circ$ ($c = 0.56$, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.



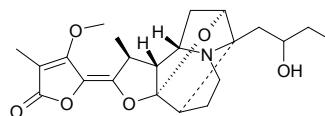
10729 2 α -Hydroxystemod-12-ene
 C₂₀H₃₂O (288.48). Prisms, mp 132~133°C, $[\alpha]_D^{27} = +18.0^\circ$ ($c = 0.75$, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.



10730 2 β -Hydroxystemod-12-ene
 C₂₀H₃₂O (288.48). Amorphous crystals, mp 82~85°C, $[\alpha]_D^{27} = +20.9^\circ$ ($c = 1.63$, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

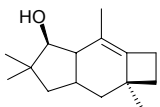


10731 2'-Hydroxystemofoline
 C₂₂H₂₉NO₆ (403.48). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 30mg/L, EC₅₀ = 38mg/L). Source: YIN DU ZHI NA BAI *Stemona cochinchinensis*, *Stemona curtisii*. Ref: 3409.

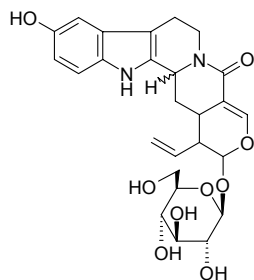


10732 1-Hydroxy-3-sterpuren

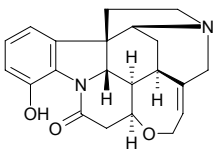
$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_D = -28^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Antifungal (*Mucor miehei*, *Penicillium notatum*, 50 μ g/filter disc, weak activity); antibacterial (*Bacillus subtilis*, *Bacillus brevis*, 50 μ g/filter disc, weak activity); cytotoxic (HeLa-S3, $IC_{50} = 50\mu$ g/mL, HL-60, $IC_{50} = 50\mu$ g/mL, COS-7, $IC_{50} = 50\sim 100\mu$ g/mL). **Source:** *Gloeophyllum* sp. **Ref:** 3968.

**10733 10-Hydroxystriostosamide**

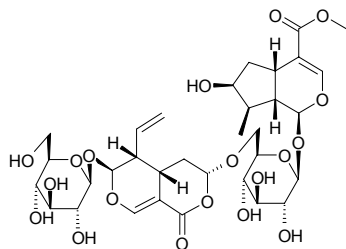
$C_{26}H_{30}N_2O_9$ (514.54). $[\alpha]_D = -24.2^\circ$ ($c = 0.43$, MeOH). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DONG FANG WU TAN *Nauclea orientalis*, KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.008%). **Ref:** 2178, 4303.

**10734 4-Hydroxystrychnine**

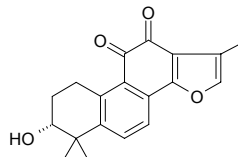
$C_{21}H_{22}N_2O_3$ (350.42). Crystals (EtOH), $[\alpha]_D^{20} = -8^\circ$ ($c = 0.7$, $CHCl_3$). **Pharm:** Eclamptogenic (mus, sc, $CD_{50} = 0.545$ mg/kg); similar action with strychnine; CNS stimulant; $LD_{50} = 0.556$ mg/kg. **Source:** CHANG ZI MA QIAN *Strychnos wallichiana*, MA QIAN ZI *Strychnos nux-vomica*, ZHONG FEI MA QIAN *Strychnos icaja*. **Ref:** 2, 658, 1521.

**10735 6'-O-(7 α -Hydroxyswersoyloxy)loganin**

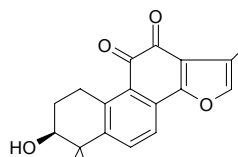
$C_{33}H_{46}O_{19}$ (746.72). Amorphous powder, $[\alpha]_D^{26} = -150.7^\circ$ ($c = 0.146$, MeOH). **Source:** JIN YIN HUA *Lonicera japonica* (stem and leaf). **Ref:** 4220.

**10736 3 α -Hydroxytanshinone IIA**

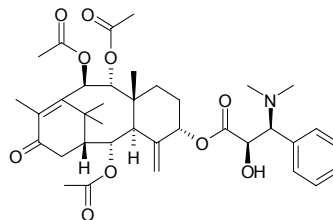
[97399-71-8] $C_{19}H_{18}O_4$ (310.35). mp 187°C, mp 205~206°C. **Pharm:** Antibacterial (*Staphylococcus aureus* and its drug-resistant strain, hmn *Mycobacterium tuberculosis* H37Rv and hemolytic streptococcus); one of effective components in danshen, *Salvia miltiorrhiza* DAN SHEN. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2, 6, 658, 1521.

**10737 3 β -Hydroxytanshinone IIA**

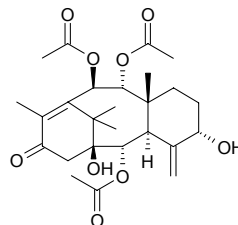
$C_{19}H_{18}O_4$ (310.35). Red acicular crystals (MeOH), mp 202°C. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721.

**10738 2'-Hydroxytaxine II**

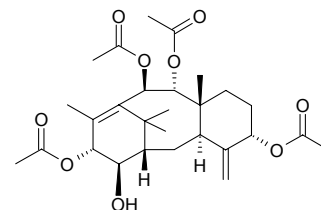
$C_{37}H_{49}NO_{10}$ (667.80). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**10739 1-Hydroxytaxinine A**

Triacetyl-5-decinnamoyltaxicin I $C_{26}H_{36}O_9$ (492.57). mp 206~207°C, $[\alpha]_D = +54^\circ$ (CH_2Cl_2). **Source:** HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

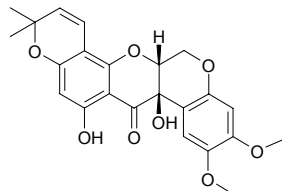
**10740 14 β -Hydroxytaxusin**

5 $\alpha,9\alpha,10\beta,13\alpha$ -Tetraacetoxytaxa-4(20),11-dien-14 β -ol $C_{28}H_{40}O_9$ (520.63). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 662.

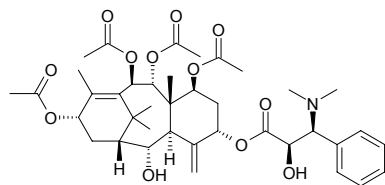


10741 11-Hydroxytephrosin

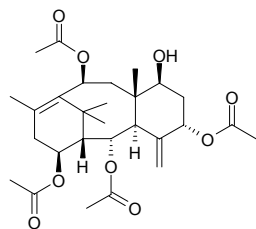
$C_{23}H_{22}O_8$ (426.43). **Pharm:** Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, $IC_{50} > 47 \mu\text{mol/L}$; control Sulforaphane, $IC_{50} = 11 \mu\text{mol/L}$)^[4718]; cytotoxic (mouse mammary organ culture assay, 60% at $10 \mu\text{g/mL}$)^[5038]. **Source:** DU HUI MAO DOU *Tephrosia toxicaria*, DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.0065%dw). **Ref:** 4718, 5038.

**10742 2 α -Hydroxy-7 β ,9 α ,10 β ,13 α -tetraacetoxy-5 α -(2'-hydroxy-3'-N,N-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),11-diene**

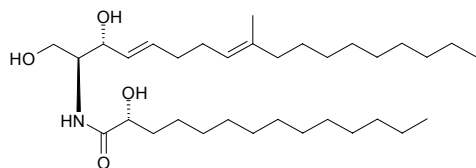
$C_{39}H_{53}NO_{12}$ (727.86). Gum, $[\alpha]_D^{22} = +76^\circ$ ($c = 0.21$, CHCl_3). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). **Ref:** 3886.

**10743 7 β -Hydroxy-2 α ,5 α ,10 β ,14 β -tetraacetoxytaxa-4(20),11-diene**

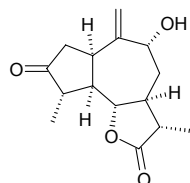
$C_{28}H_{40}O_9$ (520.63). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**10744 (2S,2'R,3R,4E,8E)-N-2'-Hydroxytetradecanoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol**

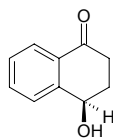
$C_{33}H_{63}NO_4$ (537.87). Amorphous powder, $[\alpha]_D^{20} = +6.3^\circ$ ($c = 0.2$, CHCl_3). **Source:** BAO BAN E GAO *Amanita pantherina*. **Ref:** 4195.

**10745 9 α -Hydroxy-4 β ,15,11 β ,13-tetrahydro-dehydrozaluzanin C**

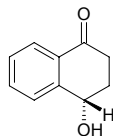
$C_{15}H_{20}O_4$ (264.32). Solid. **Source:** ROU SE HUAN YANG SHEN *Crepis mollis* (root). **Ref:** 3982.

**10746 (4R)-4-Hydroxy- α -tetralone**

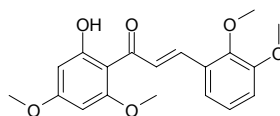
$C_{10}H_{10}O_2$ (162.19). **Source:** DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit). **Ref:** 4492.

**10747 (4S)-4-Hydroxy- α -tetralone**

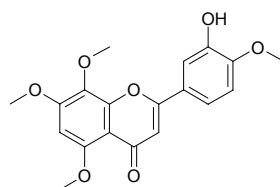
(-)-4-Hydroxy-1-tetralone $C_{10}H_{10}O_2$ (162.19). $[\alpha]_D^{26} = -41.5^\circ$ ($c = 0.17$, CHCl_3). **Pharm:** Antitubercular (*Mycobacterium tuberculosis* 90-221387, MIC = $3.125 \mu\text{g/mL}$; *Mycobacterium tuberculosis* H37Rv, MIC = $0.2 \mu\text{g/mL}$)^[5059]; cytotoxic inactive (MTT assay, HT29 cell line, MCF7 cell line)^[4321]. **Source:** DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit), HU TAO QIU *Juglans mandshurica* (root), HUANG QI II *Engelhardia roxburghiana* (root). **Ref:** 4321, 4492, 5059.

**10748 2'-Hydroxy-2,3,4,6'-tetramethoxychalcone**

$C_{19}H_{20}O_6$ (344.37). Yellow needles, mp $120\sim 122^\circ\text{C}$. **Pharm:** Antibacterial (gram-positive bacteria: *Staphylococcus aureus*, $30 \mu\text{g/mL}$, DIZ = 7mm, *Bacillus subtilis*, $30 \mu\text{g/mL}$, DIZ = 6mm, *Bacillus sphaericus*, $30 \mu\text{g/mL}$, DIZ = 7mm, control Penicillin G, $30 \mu\text{g/mL}$, DIZ = 12, 15, 14mm, respectively; gram-negative bacteria: *Pseudomonas aeruginosa*, $30 \mu\text{g/mL}$, DIZ = 7mm, *Klebsiella aerogenes*, $30 \mu\text{g/mL}$, DIZ = 6mm, *Chromobacterium violaceum*, $30 \mu\text{g/mL}$, DIZ = 7mm, control Penicillin G, $30 \mu\text{g/mL}$, DIZ = 24, 23, 24mm, respectively); antifungal (*Aspergillus niger*, $100 \mu\text{g/mL}$, DIZ = 7mm, *Candida albicans*, $100 \mu\text{g/mL}$, DIZ = 7mm, *Rhizopus oryzae*, $150 \mu\text{g/mL}$, inactive, control Clotrimazole, $100 \mu\text{g/mL}$, DIZ = 22, 25, 24mm, respectively). **Source:** JI MEI YUN SHI *Caesalpinia pulcherrima*. **Ref:** 3407.

**10749 3'-Hydroxy-5,7,8,4'-tetramethoxyflavone**

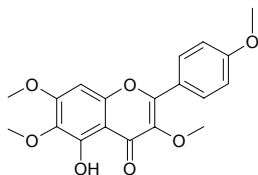
$C_{19}H_{18}O_7$ (358.35). Yellow crystals. **Source:** BAI YE XIANG CHA CAI *Isodon leucophyllus*. **Ref:** 2489.



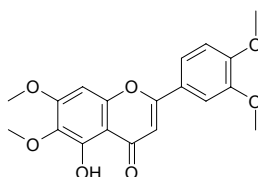
10750 5-Hydroxy-3,6,7,4'-tetramethoxyflavone

[14787-34-9] C₁₉H₁₈O₇ (358.35). **Pharm:** Prolyl endopeptidase inhibitor (flavobacterium origin, IC₅₀ = 860 μmol/L, control Z-pro-prolinal, IC₅₀ = (0.884±0.025) μmol/L)^[4179]; thrombin inhibitor inactive (bovine source, IC₅₀ = 665 μmol/L control Leupeptin, IC₅₀ = 45.4 μmol/L)^[4179].

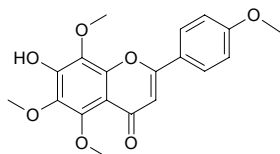
Source: HUANG HUA HAO *Artemisia annua*, JIA LIAN QIAO *Duranta repens* (whole herb). **Ref:** 2, 660, 4179.

**10751 5-Hydroxy-6,7,3',4'-tetramethoxyflavone**

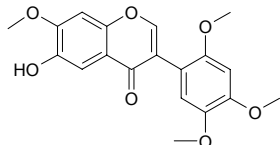
[21763-80-4] C₁₉H₁₈O₇ (358.35). Yellowish slender crystals, mp 188~189°C (95% ethanol); pale yellow powder, mp 242~245°C. **Pharm:** Antibacterial (gram-positive and gram-negative bacteria); cytotoxic (mus myelocytic leukemia cells, strongly induces cell differentiation, 50 μmol/L, growing rate 63%, activity of macrophages > 10%, 5 μmol/L, growing rate 93%); cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20 μg/mL)^[5378]; angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10 μg)^[5378]; antioxidant (ferric thiocyanate method, 0.5 mmol/L, peroxidation value = 77.9%, control BHA, 0.5 mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5 mmol/L, peroxidation value = 14.7%)^[4508]; PFase inhibitor (100 μg/mL, InRt = 35%)^[5378]. **Source:** AI YE *Artemisia argyi*, BAI YE XIANG CHA CAI *Isodon leucophyllus*, JU PI *Citrus reticulata*, TIAN SHE CAO *Lippia dulcis* (aerial parts). **Ref:** 900, 2489, 4508, 5378.

**10752 7-Hydroxy-5,6,8,4'-tetramethoxyflavone**

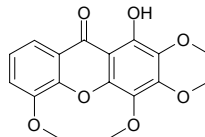
[73213-66-8] C₁₉H₁₈O₇ (358.35). Oil. **Pharm:** Cytotoxic (mus myelocytic leukemia cells, strongly induces cell differentiation, 50 μmol/L, growing rate 22%, activity of macrophages > 50%, 5 μmol/L, growing rate 56%, activity of macrophages > 10%). **Source:** JU PI *Citrus reticulata*. **Ref:** 997, 1091.

**10753 6-Hydroxy-7,2',4',5'-tetramethoxyisoflavone**

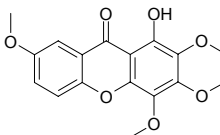
C₁₉H₁₈O₇ (358.35). Colorless amorphous powder (CHCl₃-MeOH), mp 173~175°C. **Source:** SI ZI TAN *Pterocarpus santalinus* (heartwood). **Ref:** 3933.

**10754 1-Hydroxy-2,3,4,5-tetramethoxyxanthone**

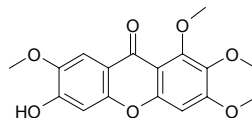
[22961-79-1] C₁₇H₁₆O₇ (332.31). **Source:** HUA MAO *Halenia corniculata*. **Ref:** 6.

**10755 1-Hydroxy-2,3,4,7-tetramethoxyxanthone**

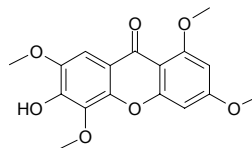
[14103-09-4] C₁₇H₁₆O₇ (332.31). mp 117.8~118.8°C. **Source:** HUA MAO *Halenia corniculata*. **Ref:** 6.

**10756 6-Hydroxy-1,2,3,7-tetramethoxyxanthone**

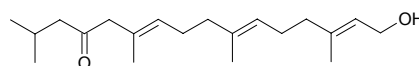
C₁₇H₁₆O₇ (332.31). **Source:** YUAN ZHI *Polygala tenuifolia* (cortex). **Ref:** 4507.

**10757 6-Hydroxy-1,3,5,7-tetramethoxyxanthone**

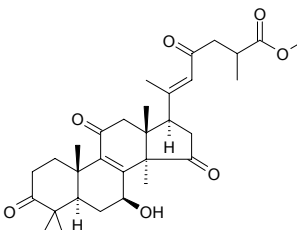
C₁₇H₁₆O₇ (332.31). mp 284~286°C (MeOH). **Source:** TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). **Ref:** 3937.

**10758 16-Hydroxy-2,6,10,14-tetramethyl-6,10,14-hexadecatrien-4-one**

C₂₀H₃₄O₂ (306.49). Oil. **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 2405.

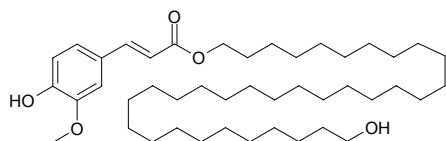
**10759 7β-Hydroxy-3,11,15,23-tetraoxolanosta-8,20E(22)-dien-26-oic acid methyl ester**

C₃₁H₄₂O₇ (526.68). Colorless amorphous solid, [α]_D²⁷ = +106.8° (c = 0.5, MeOH). **Source:** SHU SHE *Ganoderma applanatum* (sporocarp; yield = 0.00048%). **Ref:** 4756.

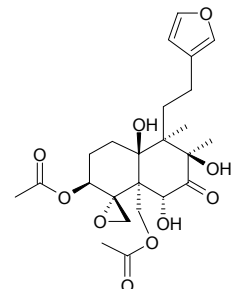


10760 34-Hydroxytetraatriacontanylferulate

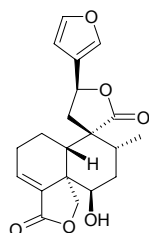
$C_{44}H_{78}O_5$ (687.11). Colorless compound, mp 95–96°C. Source: SHUANG SE JI DAN HUA *Plumeria bicolor*. Ref: 2286.

**10761 8β-Hydroxy-teucrolivin B**

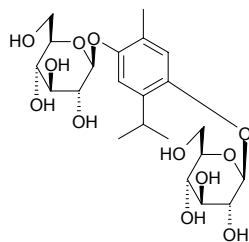
$C_{24}H_{32}O_{10}$ (480.52). Amorphous solid, $[\alpha]_D^{25} = +7.47^\circ$ ($c = 1.52$, $CHCl_3$). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**10762 6β-Hydroxyteuscordin**

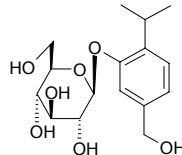
$C_{20}H_{22}O_6$ (358.39). Pharm: Insect antifeedant (*Spodoptera litura*, 10 μg/cm², antifeedant activity = (73.0±3.9%), control Azadirachtin A, 0.5 μg/cm², antifeedant activity = (79±2%); *Plutella xylostella*, 10 μg/cm², antifeedant activity = (80±3%), control Azadirachtin A, 0.5 μg/cm², antifeedant activity = (71±2%). Source: RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts), SUAN WEI XIANG KE KE *Teucrium scordium*. Ref: 3478.

**10763 6-Hydroxythymol 3,6-di-O-β-D-glucopyranoside**

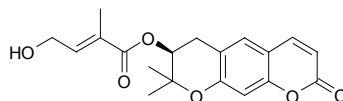
Thymoquinol 2,5-O-β-diglucoyanoside $C_{22}H_{34}O_{12}$ (490.51). Amorphous powder, $[\alpha]_D^{23} = -62^\circ$ ($c = 0.3$, MeOH); $[\alpha]_D^{25} = -12.5^\circ$ ($c = 1.20$, MeOH). Source: XU LI YA NIU ZHI *Origanum syriacum* (aerial parts), YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547, 5223.

**10764 7-Hydroxythymol 3-O-β-D-glucopyranoside**

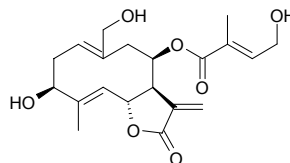
$C_{16}H_{24}O_7$ (328.37). Amorphous powder, $[\alpha]_D^{25} = -60^\circ$ ($c = 1.9$, MeOH). Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.

**10765 4'-Hydroxytigloyldecursinol**

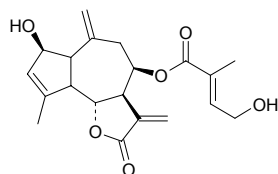
$C_{19}H_{20}O_6$ (344.37). Colorless needles (MeOH), mp 104–106°C, $[\alpha]_D^{20} = +56^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Neuroprotective (primary cultures of rat cortical cells, control, cell viability = 100%, injured by glutamate, cell viability = 0%, 0.1 μmol/L, cell viability = (33.2±3.5)%, $p < 0.05$, 1 μmol/L, cell viability = (19.9±2.0)%, 10 μmol/L, cell viability = (1.2±4.0)%). Source: CHAO XIAN DANG GUI *Angelica gigas* (root: yield = 0.00075%dw). Ref: 4796.

**10766 8β-(4'-Hydroxytigloyloxy)-3β,14-dihydroxy-6βH,7αH-germacra-1(10)Z,4E,-11(13)-trien-6,12-olide**

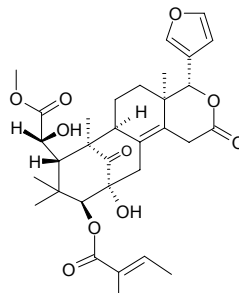
$C_{20}H_{26}O_7$ (378.43). Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00032%dw). Ref: 4762, 4762b.

**10767 8β-(4'-Hydroxytigloyloxy)-2β-hydroxy-1αH,5αH,6βH,7αH-guai-3,10(14),11(13)-trien-6,12-olide**

$C_{20}H_{24}O_6$ (360.41). Source: HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0014%). Ref: 4739.

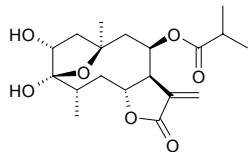
**10768 2-Hydroxy-3-O-tigloylswietenolide**

$C_{32}H_{40}O_{10}$ (584.67). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

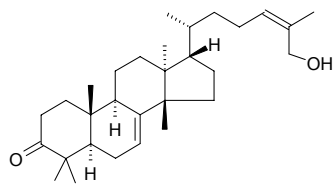


10769 2 α -Hydroxytirotondin

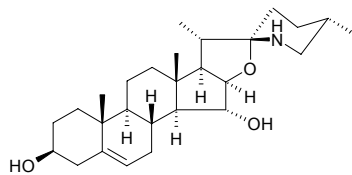
(2R)-Dihydroxy-3,10-epoxy-8-isobutyloxygermacra-11-(13)-en-6,12-olide
 $C_{19}H_{28}O_7$ (368.43). Light yellowish solid, $[\alpha]_D^{25} = -78.0^\circ$ ($c = 0.11$, MeOH).
Pharm: Cytotoxic (antiproliferative, Col2 cells, $IC_{50} > 20\mu\text{g/mL}$); cytotoxic
 (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells,
 $4\mu\text{g/mL}$, activity denotes percentage of cells differentiated $< 10\%$); cytotoxic
 (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, not
 tested). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield =
 0.00078%dw). **Ref:** 4622.

**10770 (24Z)-27-Hydroxy-7,24-tirucalladien-3-one**

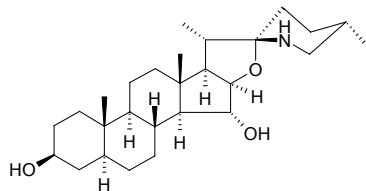
(24Z)-26-Hydroxy-7,24-euphadien-3-one [121063-66-9] $C_{30}H_{48}O_2$ (440.72).
Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 12.

**10771 15 α -Hydroxytomatidenol**

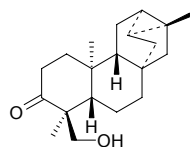
[7755-31-9] $C_{27}H_{43}NO_3$ (429.65). mp 237~240°C. **Source:** QIAN NIAN BU
 LAN XIN *Solanum dulcamara*. **Ref:** 6, 1521.

**10772 15 α -Hydroxytomatidine**

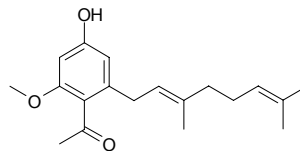
[4828-39-1] $C_{27}H_{43}NO_3$ (431.66). mp 150~155°C, $[\alpha]_D^{18} = +17.8^\circ$ ($c = 0.8$,
 $CHCl_3$). **Source:** QIAN NIAN BU LAN XIN *Solanum dulcamara*. **Ref:** 6, 1521.

**10773 ent-18-Hydroxy-trachyloban-3-one**

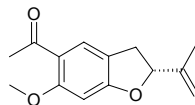
$C_{20}H_{30}O_2$ (302.46). White crystals (CH_2Cl_2), $[\alpha]_D^{22} = -77^\circ$ ($c = 0.1$, CH_2Cl_2). **Pharm:**
 Cytotoxic (HeLa, $IC_{50} = (12.2\pm 2.1)\mu\text{g/mL}$, control Camptothecin, $IC_{50} =$
 $0.5\mu\text{mol/mL}$; HL-60, $IC_{50} = (12.7\pm 1.2)\mu\text{g/mL}$, Camptothecin, $IC_{50} = 0.1\mu\text{mol/mL}$;
 WI-38, $IC_{50} = (18.3\pm 2.7)\mu\text{g/mL}$, Camptothecin, $IC_{50} = 0.6\mu\text{mol/mL}$). **Source:** ZAN
 BI XI BA DOU *Croton zambesicus* (leaf). **Ref:** 3807.

**10774 4-Hydroxy-[2-trans-3',7'-dimethyl-octa-2',6'-dienyl]-6-methoxyacetophenone**

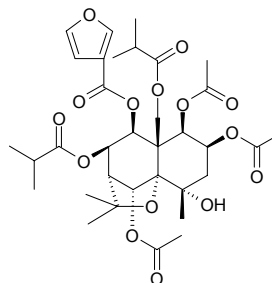
$C_{19}H_{26}O_3$ (302.42). **Source:** HUANG YAO ZI *Dioscorea bulbifera*. **Ref:** 660.

**10775 6-Hydroxytremetone**

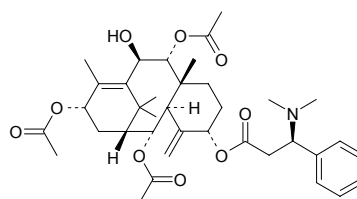
[21491-62-3] $C_{13}H_{14}O_3$ (218.25). mp 70~71°C, $[\alpha]_D^{24} = -50.7^\circ$ (EtOH). **Pharm:**
 Fish toxin (goldfish). **Source:** XIA BAO TUO WU *Ligularia intermedia*,
 ZHAI TOU TUO WU *Ligularia stenocephala* (root), QIAN MA YE ZE LAN
Eupatorium urticaefolium, ZHOU YE ZE LAN *Eupatorium rugosum*, *Senecio*
 sp., *Helichrysum* sp., *Tagetes* sp. **Ref:** 658, 1521, 4536.

**10776 4 α -Hydroxy-1 β ,2 β ,5 α -triacetoxy-7 β ,11-diisobutyryloxy-8 α -furanoyl-dihydroagarofuran**

$C_{34}H_{46}O_{15}$ (694.74). **Pharm:** Immunosuppressant inactive (inhibits lymphocyte
 transformation, $80\mu\text{g/mL}$, InRt = 4%, control Dexamethasone, $50\mu\text{g/mL}$, InRt =
 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.

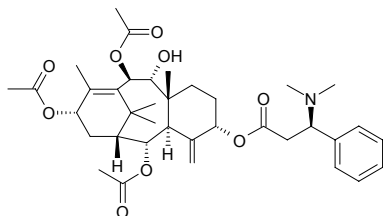
**10777 10 β -Hydroxy-2 α ,9 α ,13 α -triacetoxy-5 α -(3'-(dimethylamino)-3'-phenyl)butanoatetaxa-4(20),11-diene**

$C_{37}H_{51}NO_9$ (653.82). Gum, $[\alpha]_D^{22} = +37^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** JIA NA
 DA HONG DOU SHAN *Taxus canadensis* (needle leaf: yield = 0.00005%dw).
Ref: 4734.



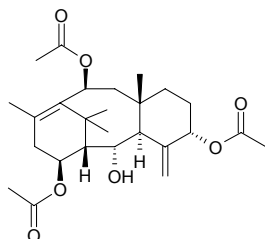
10778 9 α -Hydroxy-2 α ,10 β ,13 α -triacetoxy-5 α -(3'-N,N-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),11-diene

C₃₇H₅₁NO₉ (653.82). Gum, [α]_D²² = +53° (c = 0.21, CHCl₃); amorphous powder, [α]_D²² = +49° (c = 0.1, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf; yield = 0.00015%dw). Ref: 3886, 4734.



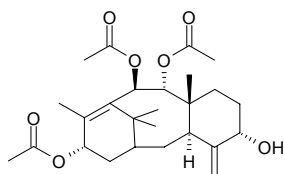
10779 2 α -Hydroxy-5 α ,10 β ,14 β -triacetoxytaxa-4(20),11-diene

C₂₆H₃₈O₇ (462.59). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



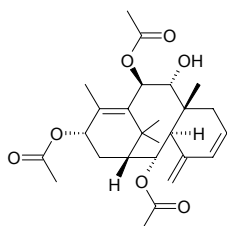
10780 Hydroxytriacetoxytaxadiene

5 α -Hydroxy-9 α ,10 β ,13 α -triacetoxytaxa-4(20),11-diene C₂₆H₃₈O₇ (462.59). mp 204~206°C, [α]_D = +266° (CHCl₃). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.



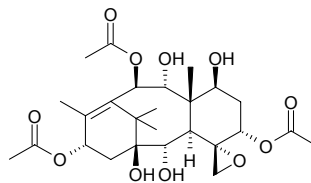
10781 9 α -Hydroxy-2 α ,10 β ,13 α -triacetoxytaxa-4(20),5(6),11(12)-triene

C₂₆H₃₆O₇ (460.57). Gum, [α]_D²² = +47° (c = 0.21, CHCl₃). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf; yield = 0.000075%dw). Ref: 4734.



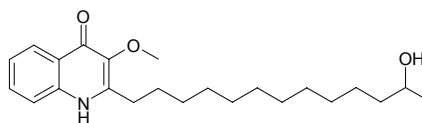
10782 1-Hydroxy-2,7,9-trideacetylaccatin I

C₂₆H₃₈O₁₁ (526.59). White granular crystals, mp 232~235°C (methanol), [α]_D¹² = -52.94° (c = 0.043, methanol). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 296, 662.



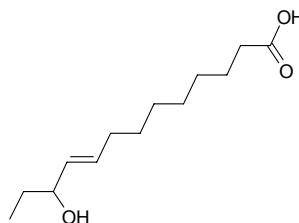
10783 2-(12-Hydroxytridecanyl)-3-methoxy-4-quinolone

C₂₃H₃₅NO₃ (373.54). Colorless oil, [α]_D = +20.7° (c = 0.02, CHCl₃). Source: *Spathelia excelsa* (leaf). Ref: 5297.



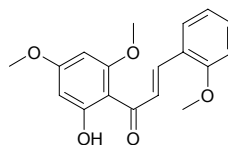
10784 11-Hydroxy-9-tridecenoic acid

C₁₃H₂₄O₃ (228.33). Source: CU LIU GUO *Hippophae rhamnoides*. Ref: 2.



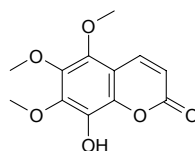
10785 2'-Hydroxy-2,4,6'-trimethoxychalcone

C₁₈H₁₈O₅ (314.34). Yellow needles (CHCl₃), mp 171~173°C. Source: TIAO WEN CHUAN XIN LIAN *Andrographis lineata*. Ref: 3390.



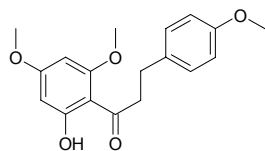
10786 8-Hydroxy-5,6,7-trimethoxycoumarin

C₁₂H₁₂O₆ (252.23). Pale yellow solid, mp 153~156°C. Pharm: Antioxidant inactive (*in vitro*, rat liver microsomes lipid peroxidation); MAO inhibitor (IC₅₀ = 44.5 μ g/mL). Source: MU JIN HUA *Hibiscus syriacus*. Ref: 3088.

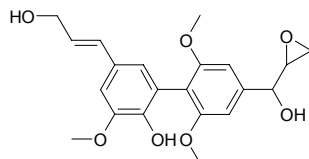


10787 2'-Hydroxy-4,4',6'-trimethoxydihydrochalcone

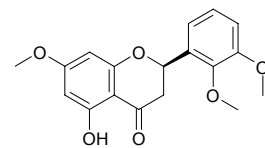
$C_{18}H_{20}O_5$ (316.36). Colorless plates (EtOH), mp 108~110°C, mp 110~112°C. Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**10788 2-Hydroxy-3,2',6'-trimethoxy-4'-(2,3-epoxy-1-hydroxypropyl)-5-(3-hydroxy-1-propenyl) biphenyl**

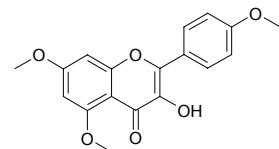
$C_{21}H_{24}O_7$ (388.42). Source: *Eurycoma* sp. Ref: 4556.

**10789 (2R)-5-Hydroxy-7,2',3'-trimethoxyflavanone**

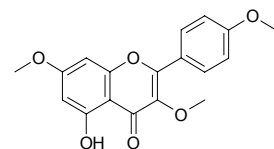
$C_{18}H_{18}O_6$ (330.34). Colorless solid (MeOH), mp 148~150°C, $[\alpha]_D^{25} = -16.6^\circ$ ($c = 0.1$, MeOH). Source: NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula* (whole herb). Ref: 4406.

**10790 3-Hydroxy-5,7,4'-trimethoxyflavone**

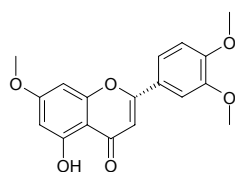
$C_{18}H_{16}O_6$ (328.32). Source: DA YE SHU LAN *Aglaiia elliptifolia* (leaf: yield = 0.00025%dw). Ref: 3031.

**10791 5-Hydroxy-3,7,4'-trimethoxyflavone**

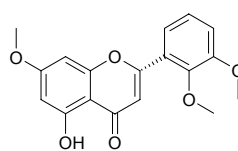
$C_{18}H_{16}O_6$ (328.32). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf: yield = 0.00069%dw), TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221, 4614.

**10792 5-Hydroxy-7,3',4'-trimethoxyflavone**

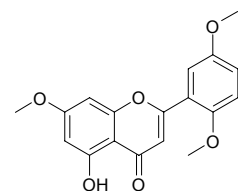
$C_{18}H_{16}O_6$ (328.32). Yellow needles (EtOH), mp 171~192°C, mp 161~163°C. Source: *Arnica* spp., *Piper* spp., *Salvia* spp. Ref: 1521.

**10793 5-Hydroxy-7,2',3'-trimethoxyflavone**

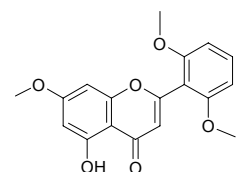
$C_{18}H_{16}O_6$ (328.32). Yellow amorphous solid ($CHCl_3$), mp 191~192°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (whole herb). Ref: 3841.

**10794 5-Hydroxy-7,2',5'-trimethoxyflavone**

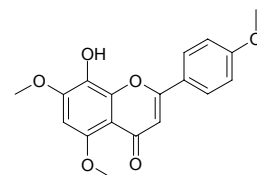
$C_{18}H_{16}O_6$ (328.32). Pale yellow solid (MeOH), mp 196~198°C. Source: *Andrographis neesiana* (whole herb). Ref: 4357.

**10795 5-Hydroxy-7,2',6'-trimethoxyflavone**

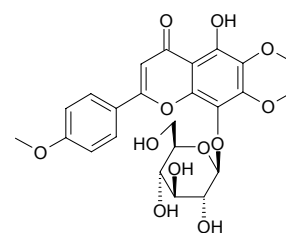
$C_{18}H_{16}O_6$ (328.32). Colorless solid (MeOH), mp 196~198°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2036.

**10796 8-Hydroxy-5,7,4'-trimethoxyflavone**

[21919-71-1] $C_{18}H_{16}O_6$ (328.32). Yellowish rhombic crystals, mp 233~234°C (methanol). Pharm: Cytotoxic (mus myelocytic leukemia cells, strongly induces cell differentiation, 50μmol/L, growing rate 42%, activity of macrophages > 25%, 5μmol/L, growing rate 80%). Source: JU PI *Citrus reticulata*. Ref: 936, 997.

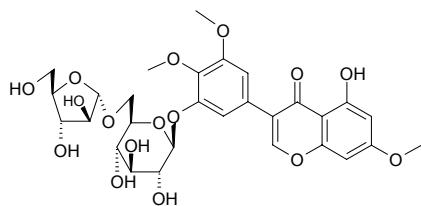
**10797 5-Hydroxy-6,7,3'-trimethoxyflavone-8-O-β-D-glucoside**

$C_{24}H_{26}O_{12}$ (506.47). Pale yellow needles (MeOH), mp 203~205°C, $[\alpha]_D^{25} = -39.0^\circ$ ($c = 0.250$, pyridine). Source: ZI MAO XIANG CHA CAI *Isodon enanderianus*. Ref: 2254.

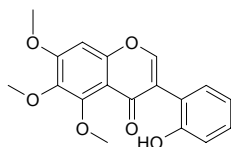


10798 5-Hydroxy-7,4',5'-trimethoxyisoflavone 3'-O- α -L-arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

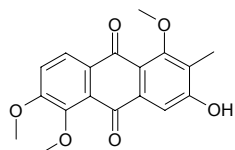
$C_{29}H_{34}O_{16}$ (638.58). White amorphous powder (MeOH), mp 213~214°C, $[\alpha]_D^{20} = -71.6^\circ$ ($c = 0.1$, pyridine). Source: JI BEI *Ceiba pentandra* (bark). Ref: 4171.

**10799 2'-Hydroxy-5,6,7-trimethoxyisoflavonoid**

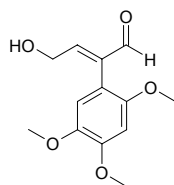
$C_{18}H_{16}O_6$ (328.32). Oil. Source: YAN SHENG JIA MU ZEI *Anabasis salsa*, DUAN YE JIA MU ZEI *Anabasis brevifolia*. Ref: 4861.

**10800 3-Hydroxy-1,5,6-trimethoxy-2-methyl-9,10-anthraquinone**

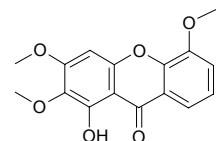
$C_{18}H_{16}O_6$ (328.32). Yellow needles (acetone), mp 256~258°C. Source: NAN SHAN HUA *Prismatomeris tetrandra* (root). Ref: 4521.

**10801 4-Hydroxy-2-(2,4,5-trimethoxyphenyl)-2E-butenal**

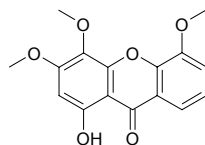
$C_{13}H_{16}O_5$ (252.27). Yellow oil. Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf; yield = 0.00124%dw). Ref: 3051.

**10802 1-Hydroxy-2,3,5-trimethoxyxanthone**

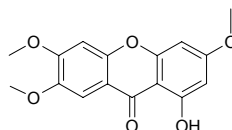
$C_{16}H_{14}O_6$ (302.29). Yellowish powder, mp 227~228°C, mp 189~190°C. Source: DENG ZHAN XI XIN *Erigeron breviscapus*, HUA MAO *Halenia corniculata*. Ref: 6, 2115.

**10803 1-Hydroxy-3,4,5-trimethoxyxanthone**

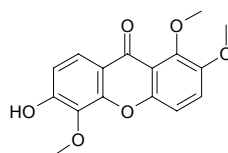
$C_{16}H_{14}O_6$ (302.29). Pharm: Antioxidant inactive (DPPH scavenger, 10 μ mol/L, ScRt = 2%; control BHT, 10 μ mol/L, ScRt = 43%, IC₅₀ = 19.00 μ mol/L). Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 4422.

**10804 1-Hydroxy-3,6,7-trimethoxy xanthone**

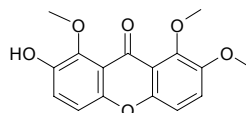
[2054-36-6] $C_{16}H_{14}O_6$ (302.29). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 2.

**10805 6-Hydroxy-1,2,5-trimethoxyxanthone**

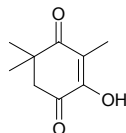
$C_{16}H_{14}O_6$ (302.29). Brown semisolid. Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 5112.

**10806 7-Hydroxy-1,2,8-trimethoxyxanthone**

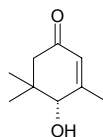
$C_{16}H_{14}O_6$ (302.29). Brown solid, mp 73~75°C. Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 5112.

**10807 2-Hydroxy-3,5,5-trimethylcyclohex-2-ene-1,4-dione**

3,5,5-Trimethyl-2-hydroxy-1,4-cyclohexadion-2-ene $C_9H_{12}O_3$ (168.19). Pharm: Tyrosinase inhibitor (333.3 μ mol/L, InRt = 11.3%; control Kojic acid, 333.3 μ mol/L, InRt = 59.8%)^[4233]. Source: ZANG HONG HUA *Crocus sativus* (pollen), ZANG HONG HUA *Crocus sativus* (stigma; yield = 0.00039%dw). Ref: 4233, 4653.

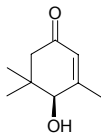
**10808 (4R)-Hydroxy-3,5,5-trimethylcyclohex-2-enone**

$C_9H_{14}O_2$ (154.21). Source: ZANG HONG HUA *Crocus sativus* (stigma). Ref: 1521, 4653.

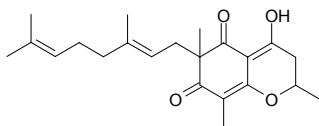


10809 (4S)-Hydroxy-3,5,5-trimethylcyclohex-2-enone

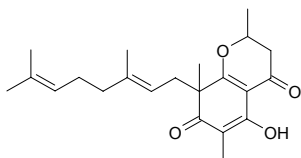
C₉H₁₄O₂ (154.21). Source: ZANG HONG HUA *Crocus sativus* (stigma). Ref: 1521, 4653.

**10810 4-Hydroxy-2,6,8-trimethyl-6-(3,7-dimethyl-2,6-octadienyl)-2H-1-benzopyran-5,7(3H,6H)-dione**

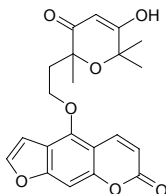
C₂₂H₃₀O₄ (358.48). Yellow oil, $[\alpha]_D^{25} = 0.71^\circ$ ($c = 0.42$, CHCl₃). Source: BAI BEI YE *Mallotus apelta*. Ref: 755.

**10811 5-Hydroxy-2,6,8-trimethyl-8-(3,7-dimethyl-2,6-octadienyl)-2H-1-benzopyran-4,7(3H,8H)-dione**

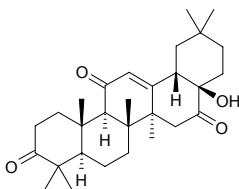
C₂₂H₃₀O₄ (358.48). Yellow oil, $[\alpha]_D^{25} = -152^\circ$ ($c = 0.59$, CHCl₃). Source: BAI BEI YE *Mallotus apelta*. Ref: 755.

**10812 2-O-[2-(5-Hydroxy-2,6,6-trimethyl-3-oxo-2H-pyran-2-yl)ethyl] bergaptol**

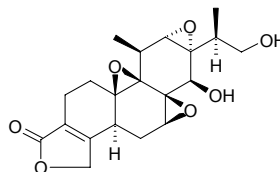
C₂₁H₂₀O₇ (384.39). Colorless plates (hexane–EtOAc), mp 144–145°C, $[\alpha]_D = -4.1^\circ$ ($c = 0.11$, MeOH). Source: TUO YUAN DUO TAN CAO *Dorstenia elliptica* (twig). Ref: 3754.

**10813 17β-Hydroxy-3,11,16-trioxo-28-norolean-12-ene**

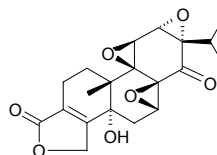
C₂₉H₄₂O₄ (454.66). Glassy amorphous solid, $[\alpha]_D^{20} = +65^\circ$ ($c = 0.04$, CHCl₃). Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.

**10814 16-Hydroxytriptolide**

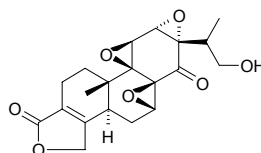
[139713-80-7] C₂₀H₂₄O₇ (376.41). White crystals, mp 232.0–233.5°C. Pharm: Anti-inflammatory (mus, edema on ears caused by oleum crotonis, ED₅₀ = 0.12mg/kg, ED₉₉ = 0.39mg/kg); immunosuppressant (mus, formation test of hemolysin antibody, ED₅₀ = 0.05mg/kg, ED₉₉ = 0.14mg/kg, ConA-induced proliferation of splenic cells, IC₅₀ = 2.4pg/mL, lipopolysaccharide LPS-induced proliferation of splenic cells, IC₅₀ = 3.9pg/mL); anti-fertility agent (male mus, orl, MED = 0.027mg/kg, 33d); LD₅₀ (mus, ip) = (0.79±0.10)mg/kg. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 204, 1579, 1580.

**10815 5α-Hydroxytriptonide**

C₂₀H₂₂O₇ (374.39). Colorless crystals, mp 269–271°C, $[\alpha]_D^{25} = -157^\circ$ ($c = 0.14$, MeOH). Pharm: Cytotoxic (Bel7402 cell lines, IC₅₀ > 100μmol/L, control Paclitaxel, IC₅₀ = 0.52μmol/L; BGC823, IC₅₀ = 17.50μmol/L, Paclitaxel, IC₅₀ > 500μmol/L; HeLa, IC₅₀ = 3.07μmol/L, Paclitaxel, IC₅₀ = 34.25μmol/L; HL-60, IC₅₀ = 4.82μmol/L, Paclitaxel, IC₅₀ = 3.5E-4μmol/L; KB, IC₅₀ = 4.16μmol/L, Paclitaxel, not tested; MCF7, IC₅₀ = 9.37μmol/L, Paclitaxel, IC₅₀ = 12.64μmol/L). Source: LEI GONG TENG *Tripterygium wilfordii* (structural modification of triptonide by *Aspergillus niger*). Ref: 5454.

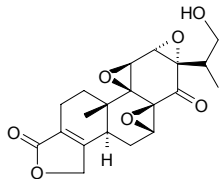
**10816 16-Hydroxytriptonide**

C₂₀H₂₂O₇ (374.39). Colorless crystals, mp 216–218°C, $[\alpha]_D^{25} = -210^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (Bel7402 cell lines, IC₅₀ > 100μmol/L, control Paclitaxel, IC₅₀ = 0.52μmol/L; BGC823, IC₅₀ = 2.44μmol/L, Paclitaxel, IC₅₀ > 500μmol/L; HeLa, IC₅₀ = 0.33μmol/L, Paclitaxel, IC₅₀ = 34.25μmol/L; HL-60, IC₅₀ = 0.34μmol/L, Paclitaxel, IC₅₀ = 3.5E-4μmol/L; KB, IC₅₀ = 0.32μmol/L, Paclitaxel, not tested; MCF7, IC₅₀ = 0.68μmol/L, Paclitaxel, IC₅₀ = 12.64μmol/L). Source: LEI GONG TENG *Tripterygium wilfordii* (structural modification of triptonide by *Aspergillus niger*). Ref: 5454.

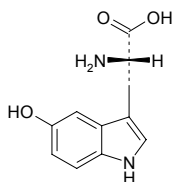


10817 17-Hydroxytriptonide

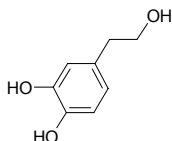
$C_{20}H_{22}O_7$ (374.39). Colorless crystals, mp 219–221°C, $[\alpha]_D^{25} = -180^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (Bel7402 cell lines, $IC_{50} > 100\mu\text{mol/L}$, control Paclitaxel, $IC_{50} = 0.52\mu\text{mol/L}$; BGC823, $IC_{50} = 2.87\mu\text{mol/L}$, Paclitaxel, $IC_{50} > 500\mu\text{mol/L}$; HeLa, $IC_{50} = 0.34\mu\text{mol/L}$, Paclitaxel, $IC_{50} = 34.25\mu\text{mol/L}$; HL-60, $IC_{50} = 0.34\mu\text{mol/L}$, Paclitaxel, $IC_{50} = 3.5\text{E-}4\mu\text{mol/L}$; KB, $IC_{50} = 0.37\mu\text{mol/L}$, Paclitaxel, not tested; MCF7, $IC_{50} = 0.85\mu\text{mol/L}$, Paclitaxel, $IC_{50} = 12.64\mu\text{mol/L}$). **Source:** LEI GONG TENG *Tripterygium wilfordii* (structural modification of triptonide by *Aspergillus niger*). **Ref:** 5454.

**10818 5-Hydroxy-L-tryptophan**

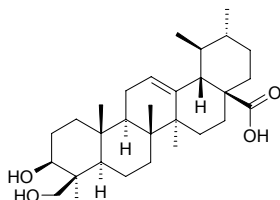
$C_{11}H_{12}N_2O_3$ (220.23). **Pharm:** Precursor to biosynthesis of 5-HT; toxin (insects). **Source:** CI YANG LI DOU *Mucuna pruriens*. **Ref:** 658.

**10819 Hydroxytyrosol**

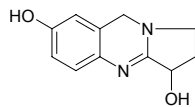
[10597-60-1] $C_8H_{10}O_3$ (154.17). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli* and *Bacillus pyocyaneus*); antitussive (dispels phlegm). **Source:** BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*]. **Ref:** 658.

**10820 23-Hydroxyursolic acid**

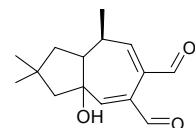
$C_{30}H_{48}O_4$ (472.71). mp 280–281°C $[\alpha]_D^{25} = +64^\circ$ ($c = 0.27$, MeOH). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 15.5 $\mu\text{g/mL}$, cytotoxic, Vero cells, $IC_{50} = 33.7\mu\text{g/mL}$, SI (IC_{50}/MIC) = 2.17, positive control Rifampin, MIC = 0.03 $\mu\text{g/mL}$, $IC_{50} = 98.3\mu\text{g/mL}$, SI = 3300)^[4986]; anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO ($IC_{50} = 2.4\mu\text{mol/L}$) and PGE2 release; inhibits protein and mRNA expression levels of iNOS and COX-2 enzymes; inhibits LPS-induced DNA binding activity of NF- κ B which is associated with a decrease of p65 protein levels in the nucleus)^[5016]. **Source:** SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), *Cussonia bancoensis*. **Ref:** 4986, 5016.

**10821 7-hydroxy vasicine**

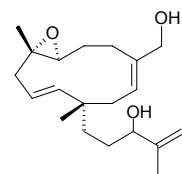
$C_{11}H_{12}N_2O_2$ (204.23). Colorless needles (MeOH), mp 260°C (dec), $[\alpha]_D^{18} = -35.5^\circ$ ($c = 0.013$, MeOH). **Source:** LIU CHUAN YU *Linaria vulgaris*. **Ref:** 4237.

**10822 9-Hydroxyvelleral**

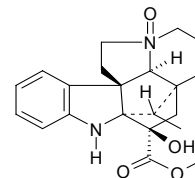
$C_{15}H_{20}O_3$ (248.32). **Source:** RONG BAI RU GU *Lactarius vellereus*. **Ref:** 660.

**10823 14-Hydroxyvibsanin F**

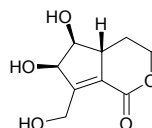
$C_{20}H_{32}O_3$ (320.48). Colorless oil, $[\alpha]_D^{20} = +9.1^\circ$ ($c = 0.18$, CHCl_3). **Source:** XIANG QI JIA MI *Viburnum odoratissimum* (leaf). **Ref:** 3512.

**10824 16β-Hydroxy-19S-vindolinine N-oxide**

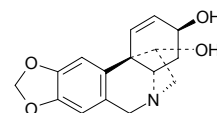
$C_{21}H_{24}N_2O_4$ (368.44). White block crystals, mp 200°C. **Source:** CHUAN SHAN CHENG *Melodinus hemsleyanus*. **Ref:** 819.

**10825 7-Hydroxy viteoid II**

$C_9H_{11}O_5$ (200.19). Yellowish-brown oil, $[\alpha]_D^{17} = -76.14^\circ$ ($c = 0.66$, MeOH). **Source:** DIAO DENG SHU *Kigelia pinnata*. **Ref:** 3418.

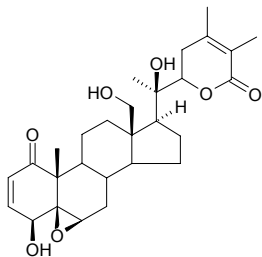
**10826 (+)-11-Hydroxyvittatine**

$C_{16}H_{17}NO_4$ (287.32). **Pharm:** Antibacterial (*Staphylococcus aureus*, IZD = 17mm, MIC = 219 $\mu\text{g/mL}$)^[3829]; antifungal (*Candida albicans*, IZD = 20mm, MIC = 156 $\mu\text{g/mL}$)^[3829]. **Source:** GU TING HUA *Amaryllis belladonna* (bulb). **Ref:** 3829.

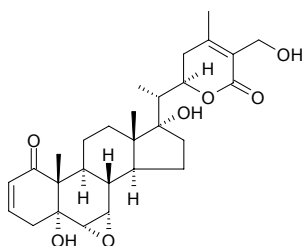


10827 18-Hydroxywithanolide D

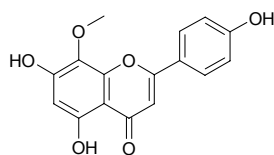
$C_{28}H_{38}O_7$ (486.61). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells, $IC_{50} = 0.029\mu\text{g/mL}$); cytotoxic (soft agar transformation assay with JB6 cells, $IC_{50} = 0.31\mu\text{g/mL}$); cytotoxic (mouse mammary organ culture assay, 63% at $10\mu\text{g/mL}$). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**10828 27-Hydroxy withanone**

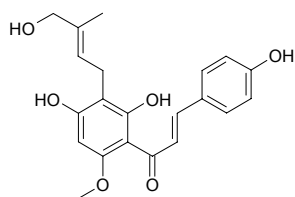
$C_{28}H_{38}O_7$ (486.61). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (leaf). **Ref:** 5329.

**10829 4'-Hydroxywogonin**

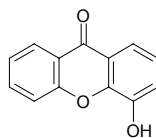
5,7,4'-Trihydroxy-8-methoxyflavone; Isoscutellarein-8-methyl ether $C_{16}H_{12}O_6$ (300.27). **Source:** BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], HONG CHAI HU *Bupleurum scorzonerifolium* (root), HUANG QIN *Scutellaria baicalensis*. **Ref:** 2, 660, 3498, 5501.

**10830 trans-Hydroxyxanthohumol**

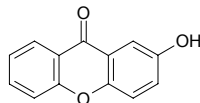
1-[2,4-Dihydroxy-3-(4-hydroxy-3-methyl-2-butenyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one $C_{21}H_{22}O_6$ (370.41). Yellow-orange solid. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

**10831 5-Hydroxyxanthone**

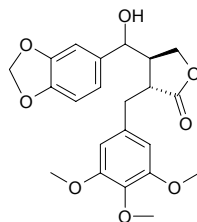
$C_{13}H_8O_3$ (212.21). **Pharm:** Antifungal (*Aspergillus fumigatus* CBS113.26, $MIC_{80} = 31\mu\text{g/mL}$, control Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus flavus* IHEM37.19, $MIC_{80} = 16\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus niger* IHEM2951, $MIC_{80} = 62\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Aspergillus terreus* 5029.2000, $MIC_{80} = 125\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Candida albicans* ATCC663.90, $MIC_{80} = 62\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 1\mu\text{g/mL}$). **Source:** SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). **Ref:** 4995.

**10832 7-Hydroxyxanthone**

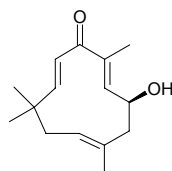
$C_{13}H_8O_3$ (212.21). **Pharm:** Antifungal (*Aspergillus fumigatus* CBS113.26, $MIC_{80} = 31\mu\text{g/mL}$, control Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus flavus* IHEM37.19, $MIC_{80} = 16\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus niger* IHEM2951, $MIC_{80} = 62\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Aspergillus terreus* 5029.2000, $MIC_{80} > 250\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Candida albicans* ATCC663.90, $MIC_{80} > 250\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 1\mu\text{g/mL}$). **Source:** SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). **Ref:** 4995.

**10833 7-Hydroxyyatein**

$C_{22}H_{24}O_8$ (416.43). **Source:** E SHEN *Anthriscus sylvestris*. **Ref:** 5499.

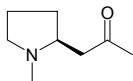
**10834 5-Hydroxyzerumbone**

5-Hydroxy-2E,6E,9E-humulatrien-8-one $C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{20} = 0.0^\circ$ ($c = 0.25$, CHCl_3). **Pharm:** NO production inhibitor (cultured RAW264.7 macrophages, induced by LPS, $IC_{50} = 14.1\mu\text{mol/L}$, control L-NMMA, $IC_{50} = 21.3\mu\text{mol/L}$). **Source:** HONG QIU JIANG *Zingiber zerumbet* (rhizome). **Ref:** 4481.

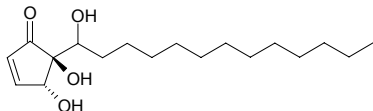


10835 Hygrine

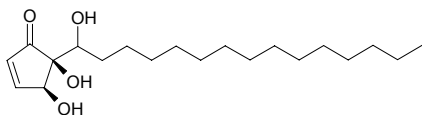
[65941-22-2] C₈H₁₅NO (141.21). bp (-) 193~195°C. Source: JIA SUAN JIANG *Nicandra physaloides*, SHU HUA SHI HU *Dendrobium chrysanthum*. Ref: 6, 660.

**10836 Hygrophorone A¹²**

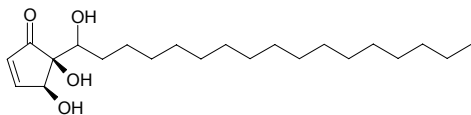
4,5-*trans*-4,5-Dihydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one C₁₈H₃₂O₄ (312.45). Source: *Hygrophorus persoonii*. Ref: 3800.

**10837 Hygrophorone B¹⁴**

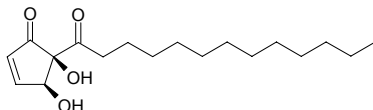
4,5-*cis*-4,5-Dihydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one C₂₀H₃₆O₄ (340.51). White amorphous solid, [α]_D²³ = +10.5° (c = 0.640, MeOH). Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**10838 Hygrophorone B¹⁶**

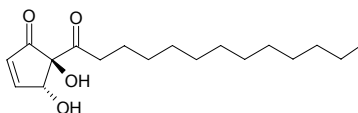
4,5-*cis*-4,5-Dihydroxy-5-(1-hydroxyheptadecyl)-2-cyclopenten-1-one C₂₂H₄₀O₄ (368.56). White amorphous solid. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**10839 Hygrophorone C¹²**

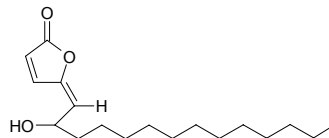
cis-4,5-Dihydroxy-5-tridecanoyl-2-cyclopenten-1-one C₁₈H₃₀O₄ (310.44). White solid. Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 55mm², 40μg, IZA = 90mm²). Source: *Hygrophorus pustulatus*. Ref: 3800.

**10840 Hygrophorone D¹²**

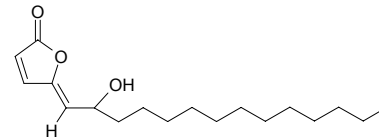
trans-4,5-Dihydroxy-5-tridecanoyl-2-cyclopenten-1-one C₁₈H₃₀O₄ (310.44). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 83mm², 40μg, IZA = 170mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**10841 Hygrophorone F¹²**

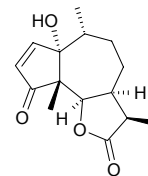
(5*E*)-5-(2-Hydroxytetradexylidene)-furan-2(5*H*)-one C₁₈H₃₀O₃ (294.44). White amorphous solid. Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 43mm², 40μg, IZA = 64mm²). Source: *Hygrophorus persoonii*. Ref: 3800.

**10842 Hygrophorone G¹²**

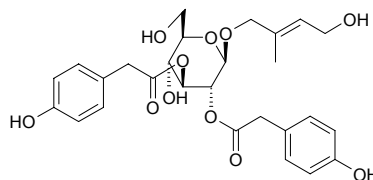
(5*Z*)-5-(2-Hydroxytetradexylidene)-furan-2(5*H*)-one C₁₈H₃₀O₃ (294.44). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**10843 Hymenolin**

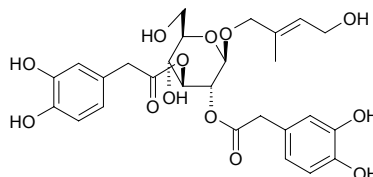
C₁₅H₂₀O₄ (264.32). Pharm: Larvacide (mosquito larva). Source: MEI GUO HAI MO JU *Hymenoclea salsola*. Ref: 658.

**10844 Hymenoside A**

C₂₇H₃₂O₁₁ (532.55). Oil, [α]_D²⁰ = 21.8° (c = 4.8, MeOH). Source: MO JUE *Hymenophyllum barbatum*. Ref: 3506, 4151.

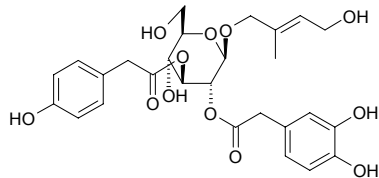
**10845 Hymenoside B**

C₂₇H₃₂O₁₃ (564.55). Oil, [α]_D¹⁷ = -24.0° (c = 2.92, MeOH). Source: MO JUE *Hymenophyllum barbatum*. Ref: 3506.

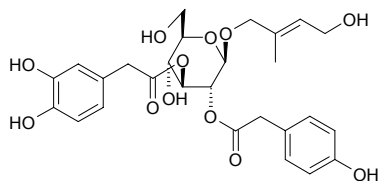


10846 Hymenoside C

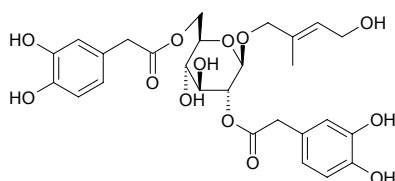
$C_{27}H_{32}O_{12}$ (548.55). Oil, $[\alpha]_D^{21} = -26.1^\circ$ ($c = 2.38$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 3506.

**10847 Hymenoside D**

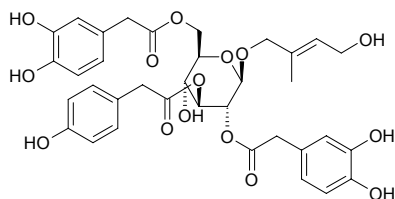
$C_{27}H_{32}O_{12}$ (548.55). Oil, $[\alpha]_D^{21} = -20.0^\circ$ ($c = 1.18$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 3506.

**10848 Hymenoside E**

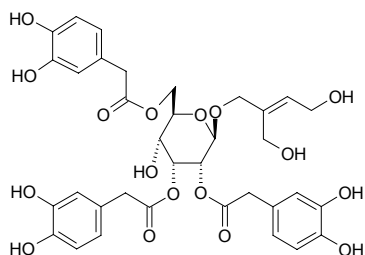
$C_{27}H_{32}O_{13}$ (564.55). Oil, $[\alpha]_D^{22} = -8.2^\circ$ ($c = 0.66$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 3506.

**10849 Hymenoside F**

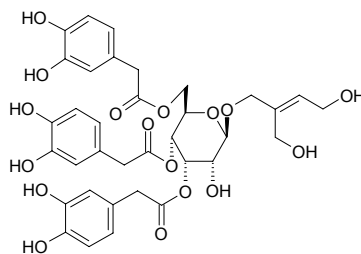
$C_{35}H_{38}O_{15}$ (698.68). Oil, $[\alpha]_D^{20} = -10.2^\circ$ ($c = 2.37$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 3506.

**10850 Hymenoside G**

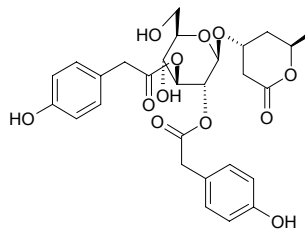
$C_{35}H_{38}O_{17}$ (730.68). Oil, $[\alpha]_D^{22} = -26.3^\circ$ ($c = 1.0$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4151.

**10851 Hymenoside H**

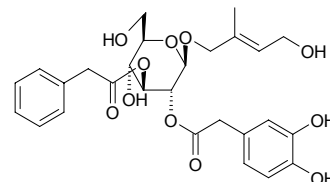
$C_{35}H_{38}O_{17}$ (730.68). Oil, $[\alpha]_D^{22} = +10.9^\circ$ ($c = 1.4$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4151.

**10852 Hymenoside I**

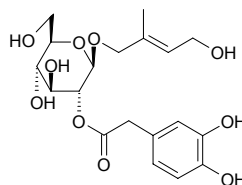
$C_{28}H_{32}O_{12}$ (560.56). Oil, $[\alpha]_D^{22} = -20.9^\circ$ ($c = 0.64$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4151.

**10853 Hymenoside J**

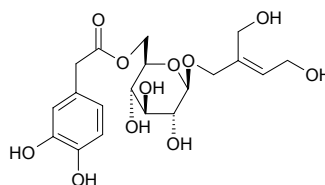
$C_{27}H_{32}O_{11}$ (532.55). Oil, $[\alpha]_D^{22} = -38.7^\circ$ ($c = 2.82$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4151.

**10854 Hymenoside K**

2-(3,4-Dihydroxyphenylacetyl)- β -D-glucopyranosyl
(*E*)-2-methyl-but-2-en-4-ol $C_{19}H_{26}O_{10}$ (414.41). Oil, $[\alpha]_D^{22} = -18.5^\circ$ ($c = 3.84$, MeOH). Source: MO JUE *Hymenophyllum barbatum*. Ref: 4178.

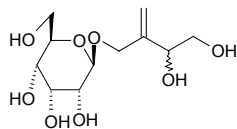
**10855 Hymenoside L**

$C_{19}H_{26}O_{11}$ (430.41). Oil, $[\alpha]_D^{20} = -30.8^\circ$ ($c = 1.40$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

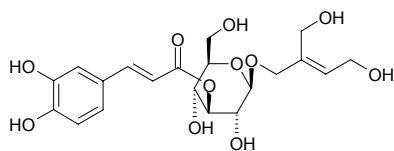


10856 Hymenoside M

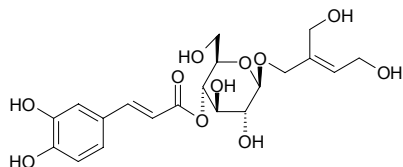
$C_{11}H_{20}O_8$ (280.28). Oil, $[\alpha]_D^{22} = -34.4^\circ$ ($c = 0.98$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10857 Hymenoside N**

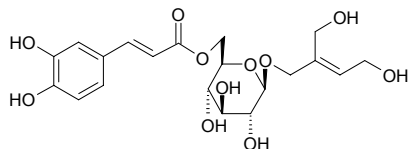
$C_{20}H_{26}O_{11}$ (442.42). Oil, $[\alpha]_D^{22} = -34.0^\circ$ ($c = 4.4$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10858 Hymenoside O**

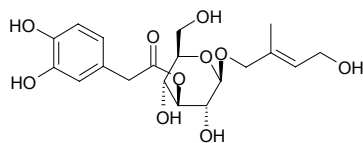
$C_{20}H_{26}O_{11}$ (442.42). Oil, $[\alpha]_D^{22} = -4.7^\circ$ ($c = 2.8$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10859 Hymenoside P**

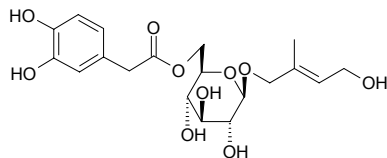
$C_{20}H_{26}O_{11}$ (442.42). Amorphous powder, $[\alpha]_D^{22} = -50.9^\circ$ ($c = 1.5$, MeOH).
Source: MO JUE *Hymenophyllum barbatum*. Ref: 4178.

**10860 Hymenoside Q**

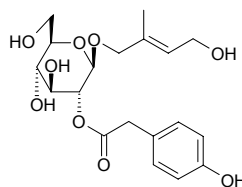
$C_{19}H_{26}O_{10}$ (414.41). Oil, $[\alpha]_D^{20} = -16.7^\circ$ ($c = 1.6$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10861 Hymenoside R**

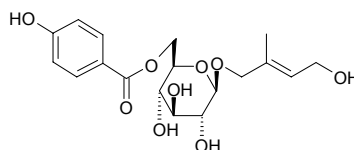
$C_{19}H_{26}O_{10}$ (414.41). Oil, $[\alpha]_D^{20} = -18.3^\circ$ ($c = 1.2$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10862 Hymenoside S**

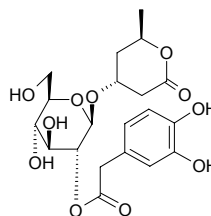
$C_{19}H_{26}O_9$ (398.41). Oil, $[\alpha]_D^{20} = -21.6^\circ$ ($c = 1.1$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10863 Hymenoside T**

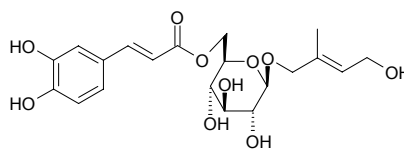
$C_{19}H_{26}O_9$ (384.39). Oil, $[\alpha]_D^{20} = -37.3^\circ$ ($c = 3.1$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10864 Hymenoside U**

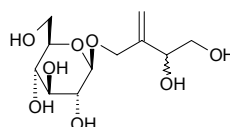
$C_{20}H_{26}O_{11}$ (442.42). Oil, $[\alpha]_D^{20} = -29.0^\circ$ ($c = 2.8$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

**10865 Hymenoside V**

$C_{20}H_{26}O_{10}$ (426.42). Oil, $[\alpha]_D^{20} = +20.6^\circ$ ($c = 2.4$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

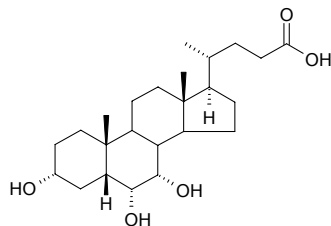
**10866 Hymenoside W**

$C_{11}H_{20}O_8$ (280.28). Oil, $[\alpha]_D^{22} = -37.2^\circ$ ($c = 1.36$, MeOH). Source: MO JUE
Hymenophyllum barbatum. Ref: 4178.

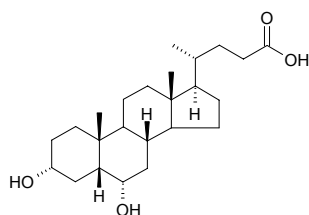


10867 Hyocholic acid

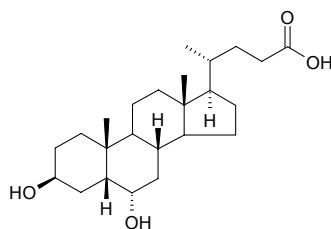
[547-75-1] C₂₄H₄₀O₅ (408.58). mp 188~189°C. Source: ZHU DAN *Sus scrofa domestica*. Ref: 6.

**10868 α -Hyodeoxycholic acid**

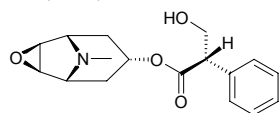
[83-49-8] C₂₄H₄₀O₄ (392.58). mp 196~197°C. Source: ZHU DAN *Sus scrofa domestica*. Ref: 6.

**10869 β -Hyodeoxycholic acid**

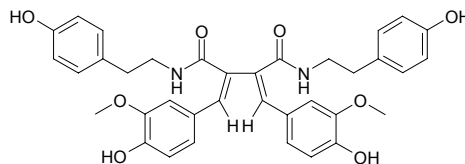
C₂₄H₄₀O₄ (392.58). mp 189~190°C. Source: ZHU DAN *Sus scrofa domestica*. Ref: 6.

**10870 Hyoscine**

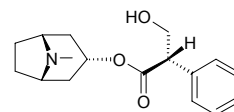
Scopolamine [51-34-3] C₁₇H₂₁NO₄ (303.36). [α]_D²⁰ = -28° (water), easily soluble in hot water, ethanol, ether, chloroform, acetone, insoluble in petroleum spirit.^[5507] Pharm: Vasodilator (dilates blood capillaries to improve microcirculation); inhibits glandular secretion; mydriatic; similar action with atropine; respiratory stimulant (central), but inhibits cerebral cortex; used in treatment of seasickness and carsickness. Source: DIAN QIE *Atropa belladonna* (dried whole herb: content scope = 0.45%~0.85%)^[5501], DONG LANG DANG *Scopolia japonica*, LANG DANG YE *Hyoscyamus niger* (leaf: content = 0.038%^[5508]); LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: mean content of 5 origins = 0.0356%^[5508]); MAN TUO LUO GEN *Datura metel*, MAN TUO LUO YE *Datura metel*, MAO MAN TUO LUO GEN *Datura innoxia*, MAO MAN TUO LUO YE *Datura innoxia*, OU LANG DANG *Scopolia carniolica*, YANG JIN HUA *Datura metel* (flower: content scope of 3 origins = 0.27%~0.56%, mean content = 0.37%^[5508]), ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (root: content scope of 2 origins = 0.016%~0.023%, mean content = 0.020%^[5508]); *Atropa* spp., *Datura* spp., *Hyoscyamus* spp., *Scopolia* spp., occurs in many plants. Ref: 2, 658, 660, 5501, 5507, 5508.

**10871 Hyoscyamide**

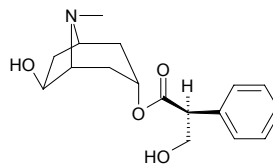
C₃₆H₃₆N₂O₈ (624.70). Pharm: Cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100µmol/L). Source: LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.00014%dw). Ref: 4607.

**10872 Hyoscyamine**

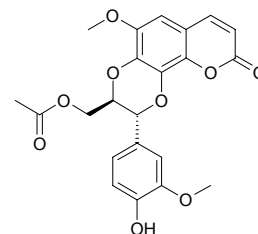
[101-31-5] C₁₇H₂₃NO₃ (289.38). Square tiny acicular crystals (ethanol), mp 108.5°C, [α]_D²⁰ = -21° (ethanol). Pharm: Anticholinergic (blocks M-cholinergic receptor); antispasmodic (smooth muscle, blood vessel); inhibits glandular secretion; mydriatic. Source: DIAN QIE *Atropa belladonna* (leaf: content = 0.07%~1.17%, root: content = 0.35%~0.74%)^[5501], GOU QI ZI *Lycium chinense*, LANG DANG YE *Hyoscyamus niger* (leaf: content = 0.020%^[5508]), LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: content scope = 0.02%~0.17%)^[5508], MA NIAO PAO *Przewalskia tangutica*, MAN TUO LUO GEN *Datura metel*, MAN TUO LUO YE *Datura metel*, MAN TUO LUO ZI *Datura metel*, MAO MAN TUO LUO GEN *Datura innoxia*, MAO MAN TUO LUO HUA *Datura innoxia*, MAO MAN TUO LUO YE *Datura innoxia*, MAO MAN TUO LUO ZI *Datura innoxia*, NING XIA GOU QI ZI *Lycium barbarum*, OU MAN TUO LUO GEN *Datura stramonium*, YANG JIN HUA *Datura metel* (flower: content scope of 3 origins = 0.052%~0.073%, mean content = 0.061%^[5508]), ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (root: content scope of 3 origins = 0.200%~1.300%, mean content = 0.730%^[5508]). Ref: 658, 5501, 5507, 5508.

**10873 Hyoscyamine 6 β -hydroxylase**

C₁₇H₁₃NO₄ (305.38). Source: ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (Hairy Root). Ref: 5071.

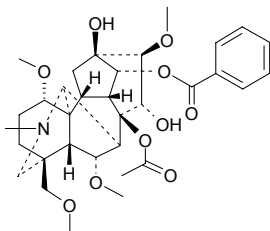
**10874 Hyosgerin**

C₂₂H₂₀O₉ (428.40). Yellow crystals (MeOH), mp 198~199°C, [α]_D²⁵ = -65.4° (c = 0.38, CHCl₃). Source: LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.00025%dw). Ref: 2096.

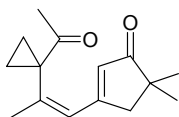


10875 Hypaconitine

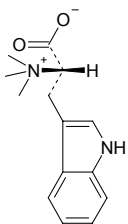
[6900-87-4] $C_{33}H_{45}NO_{10}$ (615.73). White granular crystals, mp 197.5~198.5°C, $[\alpha]_D^{26} = +21.6^\circ$ ($c = 0.607$, $CHCl_3$). **Pharm:** Analgesic; anti-inflammatory; causes arrhythmia (animal model); similar action with aconitine (and mesaconitine); LD_{50} (mus, ip) = 0.50mg/kg. **Source:** BAO SHAN WU TOU *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*], BEI WU TOU *Aconitum kusnezoffii* (dried tuberoid: content = 0.067%)^[5508], FU ZI *Aconitum carmichaeli* (daughter root: content = 0.029%)^[5508], HUANG HUA WU TOU *Aconitum coreanum* (tuberoid: content = 0.043%)^[5508], OU WU TOU *Aconitum napellus*, WU TOU *Aconitum carmichaeli* (dried tuberoid: content = 0.030%)^[5508]. **Ref:** 2, 6, 460, 658, 5501, 5508.

**10876 Hypacrone**

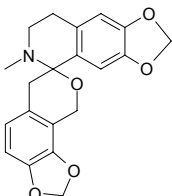
$C_{15}H_{20}O_2$ (232.33). **Source:** JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. **Ref:** 660.

**10877 Hypaphorine**

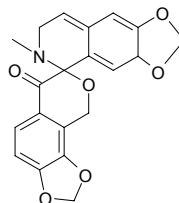
α -Carboxy-*N,N,N*-trimethyl-1H-indole-3-ethanaminium hydroxide inner salt [487-58-1] $C_{14}H_{18}N_2O_2$ (246.31). mp 255°C (dec). **Pharm:** Rodentine antifeedant; eclamptogenic. **Source:** YAO YONG ZI TAN *Pterocarpus officinalis*, HONG MU JI CAO *Desmodium gangeticum*, XIANG SI ZI *Abrus precatorius*. **Ref:** 6, 658.

**10878 Hypecorine**

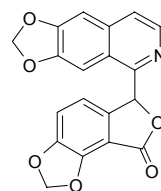
$C_{20}H_{19}NO_5$ (353.38). **Source:** XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*, ZHI LI JIAO HUI XIANG *Hypecoum erectum*. **Ref:** 660.

**10879 Hypecorinine**

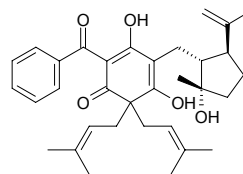
$C_{20}H_{17}NO_6$ (367.36). **Source:** ZHI LI JIAO HUI XIANG *Hypecoum erectum*. **Ref:** 660.

**10880 Hypecoumine**

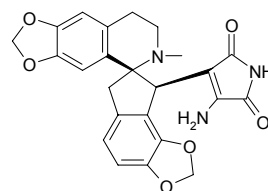
[100163-16-4] $C_{19}H_{11}NO_6$ (349.30). Colorless acicular crystals, mp 202~204°C, $[\alpha]_D^{32} = +45.06^\circ$ ($c = 0.07$, $CHCl_3$). **Source:** XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. **Ref:** 37, 1521.

**10881 Hypercalin B**

$C_{33}H_{42}O_5$ (518.70). **Pharm:** Antineoplastic (hmn, Co115 cancer cell line); molluscicide (*Oncomelania* infecting schistosomiasis and kills shellfish). **Source:** DA E JIN SI TAO *Hypericum calycinum*. **Ref:** 658.

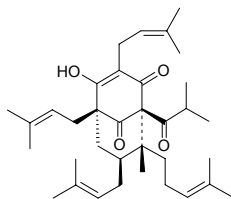
**10882 Hyperectine**

$C_{24}H_{21}N_3O_6$ (447.45). **Source:** ZHI LI JIAO HUI XIANG *Hypecoum erectum*. **Ref:** 660.

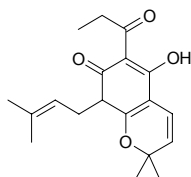


10883 Hyperforin

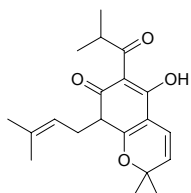
[11079-53-1] C₃₅H₅₂O₄ (536.80). Crystals, mp 79–80°C, [α]_D¹⁸ = +41° (C₂H₅OH). **Pharm:** Inhibits [¹²⁵I]suvagine binding to CRH-1 receptor (IC₅₀ = 10 μmol/L)^[5119]; antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, IC₅₀ = (1.8±0.2) μmol/L, control Quercetin, IC₅₀ = (0.5±0.1) μmol/L; OZ-induced, inactive)^[5371]; DPPH scavenger inactive^[5371]; antidepressant^[1521]; inhibits reuptake of neurotransmitters (synapses)^[1521]; cytochrome P450 (CYP3A4) inducer (hepatocytes)^[1521]; antibacterial (gram-positive and gram-negative bacteria)^[1521]. **Source:** BIAN DI JIN *Hypericum wightianum* (dried whole herb: content = 0.0375%)^[5508], DI ER CAO *Hypericum japonicum* (dried whole herb: content = 0.0897%)^[5508], GUAN YE LIAN QIAO *Hypericum perforatum* (whole herb: mean content of 5 origins = 1.87%)^[5508], HUANG HAI TANG *Hypericum ascyron* (dried whole herb: content = 0.0972%)^[5508], JI WU BING JIN SI TAO *Hypericum subsessile* (dried whole herb: content = 0.1724%)^[5508], JIN SI MEI *Hypericum patulum* (dried whole herb: content = 0.1777%)^[5508], TING JING BIAN DI JIN *Hypericum elodeoides* (dried whole herb: content = 0.0353%)^[5508], WAN E JIN SI TAO *Hypericum curvisepalum* (dried whole herb: content = 0.0309%)^[5508], YANG ZI XIAO LIAN QIAO *Hypericum faberi* (dried whole herb: content = 0.4822%)^[5508], YUAN BAO CAO *Hypericum sampsonii* (dried whole herb: content = 0.1816%)^[5508], ZHAN E JIN SI TAO *Hypericum lancasteri* (dried whole herb: content = 0.7269%)^[5508]. **Ref:** 660, 1521, 3032, 5119, 5371, 5508.

**10884 Hyperguinone A**

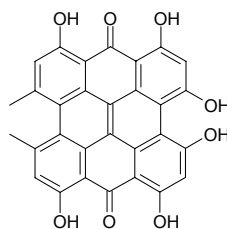
C₁₉H₂₄O₄ (316.40). **Pharm:** Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, IC₅₀ = (7.0±1.0) μmol/L, control Quercetin, IC₅₀ = (0.5±0.1) μmol/L; OZ-induced, inactive). **Source:** *Hypericum papuanum* **Ref:** 5371.

**10885 Hyperguinone B**

C₂₀H₂₆O₄ (330.43). **Pharm:** Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, IC₅₀ = (3.3±0.4) μmol/L, control Quercetin, IC₅₀ = (0.5±0.1) μmol/L; OZ-induced, inactive); DPPH scavenger inactive; antioxidant (H₂O₂/horseradish peroxidase assay, inactive); superoxide scavenger inactive (cytochrome C assay). **Source:** *Hypericum papuanum* **Ref:** 5371.

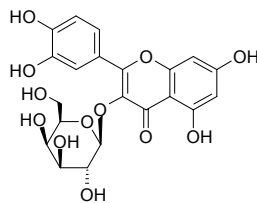
**10886 Hypericin**

Cyclosan; Hypericum red [548-04-9] C₃₀H₁₆O₈ (504.46). mp 320°C (dec), easily soluble in pyridine, almost insoluble in other organic solvent.^[5507] **Pharm:** Antimelancholic; antidepressant; antiviral (reverse transcriptase virus, *in vitro* and *in vivo*); CNS depressant; photosensitizer (mammal); anti-inflammatory (IL-12 production inhibitor, LPS-activated macrophages, IC₅₀ = 1.45 μg/mL; inhibits activation of IL-12 gene promoter; inhibits activation of NF-κB, PMA- and TNF-α-induced, mechanism not involving antioxidant pathways)^[4416]; antirheumatic^[4416]; inhibits [¹²⁵I]suvagine binding to CRH-1 receptor (IC₅₀ = 6 μmol/L)^[5119]. **Source:** BIAN DI JIN *Hypericum wightianum* (dried whole herb: content = 0.0228%)^[5508], GUAN YE LIAN QIAO *Hypericum perforatum* (whole herb: mean content of 7 origins = 0.023%)^[5508]; the compound was isolated from the plant for the first time in 1942^[5507], XIAO LIAN QIAO *Hypericum erectum*, YANG ZI XIAO LIAN QIAO *Hypericum faberi* (dried whole herb: content = 0.0533%)^[5508], YUAN BAO CAO *Hypericum sampsonii* (dried whole herb: content = 0.0396%)^[5508]. **Ref:** 6, 661, 4416, 5119, 5507, 5508.

**10887 Hyperin**

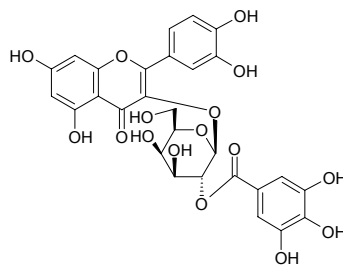
Hyperoside; Quercetin-3-*O*-β-*D*-galactoside; 3',4',5,7-Tetrahydroxyflavonol-3-β-*D*-galactoside [482-36-0] C₂₁H₂₀O₁₂ (464.39). Yellowish acicular crystals (ethanol), mp 227–230°C (dec), [α]_D²⁰ = -83° (*c* = 0.2, pyridine). **Pharm:** Analgesic (peripheral); antibacterial (*Pseudomonas maltophilia*); anti-inflammatory (rat, induced by embedding woolball, 20mg/(kg·d) ip, 7 days); antitussive (cat, ip, model of electrostimulating nervi laryngeus superior; 100mg/kg, mus, ip, ammonia fog method, 100mg/kg, EDT₅₀ prolonged 54% compared with control); aldose reductase inhibitor (eye lens); low toxin (mus, orl, 10g/kg, not death; mus, ip, LD₅₀ = 0.5g/kg); antioxidant (A cDNA microarray study, up-regulates 50 genes and down-regulates many others in SNU-668 hmn gastric cancer cells, many of which are associated with mechanisms of antioxidation)^[5341]; ACE inhibitor (IC₅₀ = 200 μmol/L, control Lisinopril, IC₅₀ = 1 nmol/L); NEP inhibitor (IC₅₀ > 500 μmol/L, control Phosphoramidon, IC₅₀ = 9 nmol/L); APN inhibitor inactive; antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 57%, IC₅₀ = 10.50 μmol/L; control BHT, 10 μmol/L, ScRt = 43%, IC₅₀ = 19.00 μmol/L)^[4422]. **Source:** BIAN DI JIN *Hypericum wightianum* (dried whole herb: mean content = 0.431%)^[5508], CHA YU BIAN DI JIN *Hypericum wightianum* subsp. *axillare* (dried whole herb: mean content = 0.349%)^[5508], CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 0.133%)^[5508], CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: content scope = 0.001%–0.012%, mean content = 0.007%)^[5508], CHUAN DIAN JIN SI TAO *Hypericum forrestii* (dried whole herb: mean content = 0.461%)^[5508], DI ER CAO *Hypericum japonicum* (dried whole herb: content = 0.5044%)^[5508], DI YU *Sanguisorba officinalis* (dried root: mean content = 0.13%)^[5508], GAN SU

SHAN ZHA *Crataegus kansuensis* (dried ripe fruit: content = 0.010%)^[5508], GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUAN YE LIAN QIAO *Hypericum perforatum*, GUAN YE LIAN QIAO *Hypericum perforatum* (dried whole herb: content = 1.005%)^[5508], HE YE *Nelumbo nucifera* (content scope of 46 origins = 0.35%–1.47%, mean content = 0.72%)^[5515], HEI MU JIN HE HUAN *Acacia melanoxylon*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content of 5 origins = 0.064%)^[5508], HU ZHANG YE *Polygonum cuspidatum*, HUANG HAI TANG *Hypericum ascyron* (dried whole herb: content = 0.1015%)^[5508], HUANG SHU KUI HUA *Abelmoschus manihot* (dried flower: mean content of 4 origins = 1.23%)^[5508], JI WU BING JIN SI TAO *Hypericum subsessile* (dried whole herb: content = 0.7195%)^[5508], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0093%dw)^[4723], JIN SI MEI *Hypericum patulum* (dried whole herb: content = 0.0980%)^[5508], KUAN DONG HUA *Tussilago farfara* (flower bud: content = 0.28%)^[5501], LAO GUAN CAO *Geranium wilfordii*, LIAO NING SHAN ZHA *Crataegus sanguinea* (dried ripe fruit: content = 0.037%)^[5508], LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], LIU QIU SHE GEN CAO *Ophiorrhiza liukuiensis* (whole herb), LONG YA CAO *Agrimonia pilosa*, LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*] (whole herb: content = 0.017%)^[5508], LUO BU MA *Apocynum venetum* (leaf: yield = 0.98%)^[5501], MAN SHAN HONG *Rhododendron dauricum* (branchlet-leaf or flower: content = 0.42%)^[5508], MAN SHAN HONG *Rhododendron dauricum* (leaf: mean content of 8 origins = 0.229%)^[5527], MAO GOU TENG *Uncaria hirsuta*, MAO SHAN ZHA *Crataegus maximowiczii* (dried ripe fruit: content = 0.169%)^[5508], MAO YAN CAO *Euphorbia lunulata* (whole herb), MAO YE WEI MAO *Euonymus sacrosancta*, PU TONG LU TI CAO *Pyrola decorata* (whole herb: content = 0.059%)^[5508], SAN BAI CAO *Saururus chinensis* (whole herb: content = 0.35%)^[5501], SHAN LI HONG *Crataegus pinnatifida* var. *major* (dried ripe fruit: mean content of 4 origins = 0.055%)^[5508], SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: mean content of 3 origins = 0.086%)^[5508], TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), TING JING BIAN DI JIN *Hypericum elodeoides* (dried whole herb: content = 0.8986%)^[5508], TU SI ZI *Cuscuta chinensis*, WAN E JIN SI TAO *Hypericum curvisepalum* (dried whole herb: content = 0.1022%)^[5508], WU MAO SHAN ZHA *Crataegus pinnatifida* var. *psilosa* (dried ripe fruit: content = 0.318%)^[5508], XI SHU *Camptotheca acuminata*, XIA KU CAO *Prunella vulgaris*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAO YE PI PA *Rhododendron anthopogonoides*, YANG ZI XIAO LIAN QIAO *Hypericum faberi* (dried whole herb: content = 0.4647%)^[5508], YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 2 origins = 0.053%)^[5508], YIN CHEN HAO *Artemisia capillaris*, YIN YANG HUO *Epimedium brevicornum*, YU XING CAO *Houttuynia cordata*, YUAN BAO CAO *Hypericum sampsonii* (dried whole herb: content = 0.2062%)^[5508], YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: content = 0.069%)^[5508], ZHAN E JIN SI TAO *Hypericum lancasteri* (dried whole herb: content = 0.0396%)^[5508], ZHAO SHAN BAI *Rhododendron micranthum* (leaf: content scope from Feb. to Nov. 0.16%–1.17%, mean content = 0.72%)^[5508], ZI BEI LU TI CAO *Pyrola atropurpurea* (whole herb: content = 0.090%)^[5508], occurs in many plants (family Polygonaceae spp., *Betula* spp., *Juglans* spp.). Ref: 2, 4, 658, 660, 661, 1521, 2508, 4013, 4097, 4422, 4445, 4527, 4723, 5034, 5341, 5501, 5508, 5527.



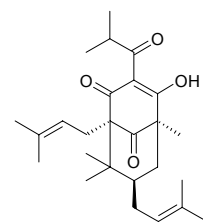
10888 Hyperin-2''-O-gallate

Quercetin-3-*O*-(2''-galloyl)- β -*D*-galactopyranoside C₂₈H₂₄O₁₆ (616.49). Pharm: Insulin-like activity (proliferation assay, dose-dependent, maximal at 30 μ g/mL)^[4445]. Source: HONG HUA LU TI CAO *Pyrola incarnata*, MAO YAN CAO *Euphorbia lunulata* (whole herb). Ref: 660, 4445.



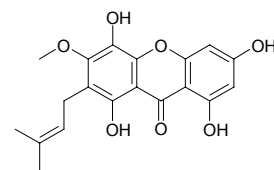
10889 Hyperpapanone

C₂₆H₃₈O₄ (414.59). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). Source: *Hypericum papuanum* Ref: 5371.



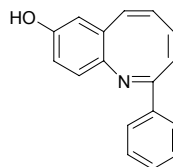
10890 Hyperxanthone

C₁₉H₁₈O₇ (358.39). Yellow amorphous powder. Source: YUAN BAO CAO *Hypericum sampsonii* (whole herb). Ref: 4055.



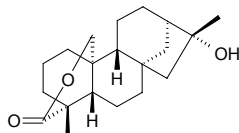
10891 Hypodematine

[134746-11-5] C₁₇H₁₃NO (247.30). Yellowish acicular crystals, mp 156–158°C. Source: SHAN DONG ZHONG ZU JUE *Hypodematium sinense*. Ref: 180.

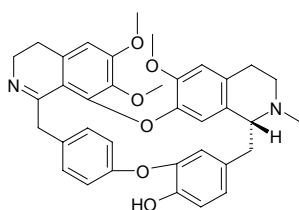


10892 Hypodiolide A

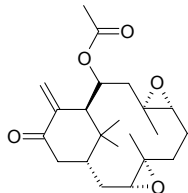
$C_{20}H_{30}O_3$ (318.46). White acicular crystals, mp 205~206°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 252.

**10893 Hypoepistephanine**

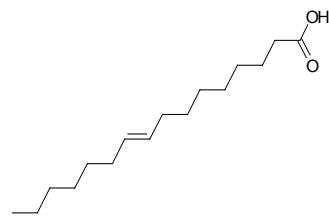
[33116-41-5] $C_{36}H_{36}N_2O_6$ (592.70). mp 257°C. Pharm: Cytotoxic (HeLa, ED_{50} = 12 μ g/mL); antioxidant (peroxide formed from polymorph, InRt = 34.1%). Source: QIAN JIN TENG *Stephania japonica*. Ref: 6, 660, 1791, 1792.

**10894 Hypoestoxide**

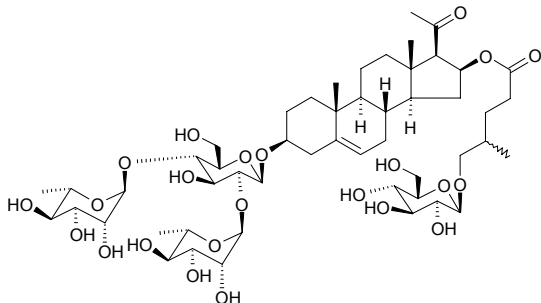
$C_{22}H_{32}O_5$ (376.50). Pharm: Anti-inflammatory (NO production inhibitor)^[4415]. Source: DAN HONG QIANG DAO YAO *Hypoestes rosea*. Ref: 1521,4415.

**10895 Hypogaic acid**

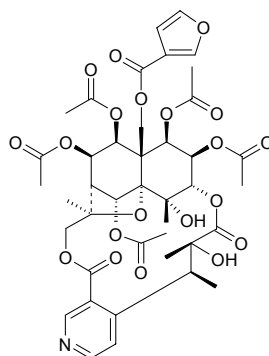
[10030-73-6] $C_{16}H_{30}O_2$ (254.42). mp 33°C. Source: LUO HUA SHENG YOU *Arachis hypogaea*, MI LA *Apis cerana*. Ref: 6, 1521.

**10896 Hypoglaucin G**

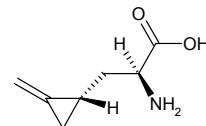
$C_{51}H_{82}O_{23}$ (1063.21). Pharm: Bone resorption inhibitor (PTH-induced in a bone organ culture system). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00024%). Ref: 4692.

**10897 Hypoglaucine**

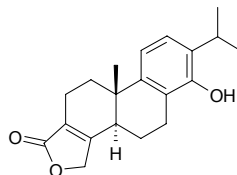
$C_{41}H_{47}NO_{20}$ (873.83). Amorphous powder. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 1861.

**10898 L-Hypoglycin**

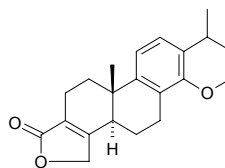
$C_7H_{11}NO_2$ (141.17). Pharm: Toxin (causes glucopenia and "vomiting sickness"). Source: XI FEI LI ZHI GUO *Blighia sapida*. Ref: 658.

**10899 Hypolide**

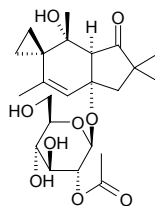
Triptophenolide $C_{20}H_{24}O_3$ (312.41). Source: HEI MAN *Tripterygium regelii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**10900 Hypolide methyl ether**

Triptophenolide methyl ether $C_{21}H_{26}O_3$ (326.44). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

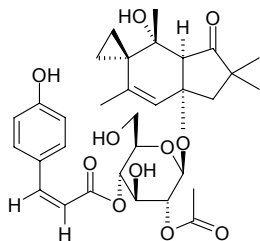
**10901 Hypolide A**

$C_{23}H_{34}O_9$ (454.52). Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 660.

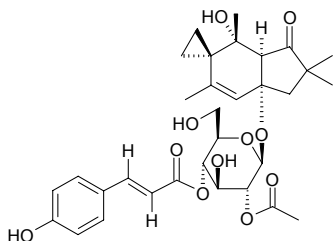


10902 Hypoloside B

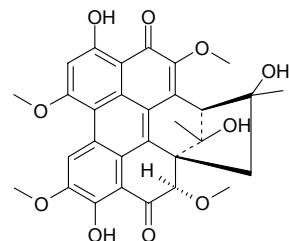
$C_{32}H_{40}O_{11}$ (600.67). Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 660.

**10903 Hypoloside C**

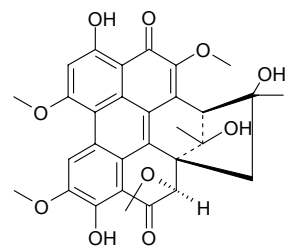
$C_{32}H_{40}O_{11}$ (600.67). Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 660.

**10904 Hypomycin C**

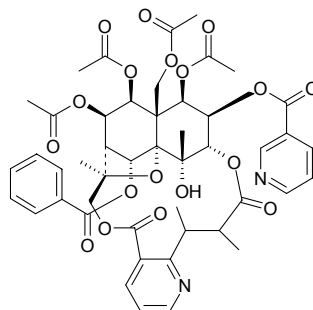
$C_{30}H_{28}O_{10}$ (548.66). Orange fine needles (MeOH), mp 245~248°C. Source: fungus *Hypomyces* sp. Ref: 2477.

**10905 Hypomycin D**

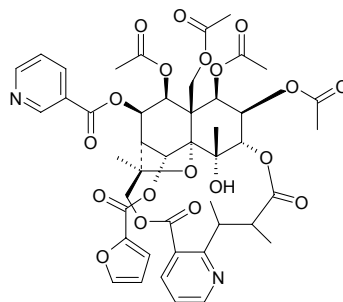
$C_{30}H_{28}O_{10}$ (548.66). Orange-red plate crystals, mp 302~307°C. Source: fungus *Hypomyces* sp. Ref: 2477.

**10906 Hyponine D**

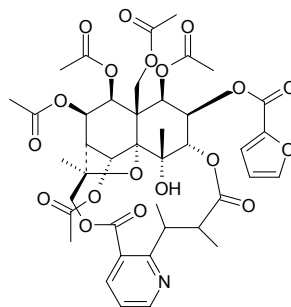
7-(Acetyloxy)-*O*²-nicotinoyl-*O*⁵-deacetyl-*O*⁵-benzoyl-7-deoxo-evonine $C_{47}H_{50}N_2O_{18}$ (930.93). Amorphous powder, $[\alpha]_D^{25} = +5.2^\circ$ ($c = 0.11$, MeOH). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 2426.

**10907 Hyponine E**

7-(Nicotinoyloxy)-*O*⁵-furanoyl-*O*⁵-deacetyl-7-deoxo-evonine $C_{45}H_{48}N_2O_{19}$ (920.89). Amorphous powder, $[\alpha]_D^{25} = -4.2^\circ$ ($c = 1.0$, MeOH). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 2426.

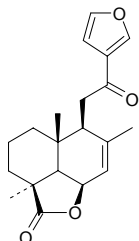
**10908 Hyponine F**

7-(Acetyloxy)-*O*²-furanoyl-*O*²-deacetyl-7-deoxo-evonine $C_{41}H_{47}NO_{19}$ (857.83). Amorphous powder, $[\alpha]_D^{25} = +7.0^\circ$ ($c = 1.0$, MeOH). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 2426.

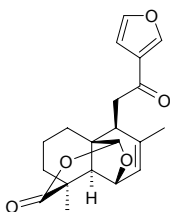


10909 Hypopurin A

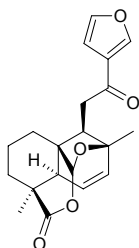
$C_{20}H_{24}O_4$ (328.41). Colorless powder, mp 125~127°C (MeOH), $[\alpha]_D^{25} = +43.3^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} = 9.4 \mu\text{mol/L}$, moderate activity). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.00015%dw). **Ref:** 4783.

**10910 Hypopurin B**

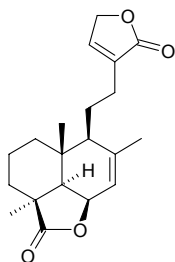
$C_{20}H_{22}O_5$ (342.4). Colorless powder, mp 120~122°C (MeOH), $[\alpha]_D^{25} = +30.3^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Cytotoxic inactive (*in vitro*, KB, $IC_{50} > 100 \mu\text{mol/L}$). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.00014%dw). **Ref:** 4783.

**10911 Hypopurin C**

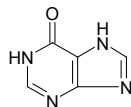
$C_{20}H_{22}O_5$ (342.4). Colorless powder, mp 165~168°C (MeOH), $[\alpha]_D^{25} = +13.3^\circ$ ($c = 0.3$, $CHCl_3$). **Pharm:** Cytotoxic inactive (*in vitro*, KB, $IC_{50} > 100 \mu\text{mol/L}$). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000095%dw). **Ref:** 4783.

**10912 Hypopurin D**

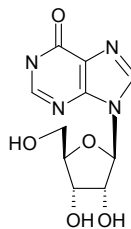
$C_{20}H_{26}O_4$ (330.43). Colorless prisms, mp 173~175°C (MeOH), $[\alpha]_D^{25} = +15^\circ$ ($c = 0.2$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, KB, $IC_{50} > 100 \mu\text{mol/L}$). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000087%dw). **Ref:** 4783.

**10913 Hypoxanthine**

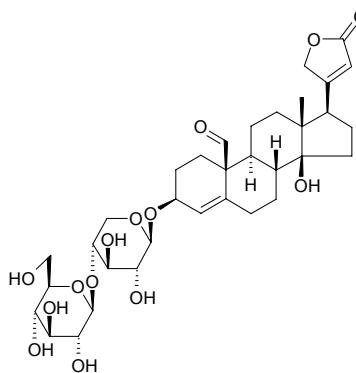
[68-94-0] $C_5H_4N_4O$ (136.11). mp 150°C (dec). **Pharm:** Plays a key role in pathology of gout. (When hypoxanthine decomposes, uric acid is formed. The basic method for treating gout is to inhibit this process.) **Source:** DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.012%)^[5512], GOU QI YE *Lycium chinense*, GUI GAI *Coprinus atramentarius*, HAI XIA *Penaeus orientalis*, LU RONG *Cervus nippon*; *Cervus elaphus*, QIU YIN *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, XIA TIAN GAO *Bos taurus domesticus*, ZHANG YE BAN XIA *Pinellia pedatisecta*. **Ref:** 2, 6, 586, 658, 5501, 5512.

**10914 Hypoxanthine nucleoside**

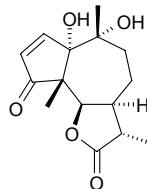
$C_{10}H_{12}N_4O_5$ (268.23). **Source:** DONG CHONG XIA CAO *Cordyceps sinensis*. **Ref:** 660.

**10915 Hyrcanoside**

[15001-93-1] $C_{34}H_{48}O_{14}$ (680.75). Crystals (methanol), mp 205~208°C. **Pharm:** Antineoplastic (mus, P_{388} , 1.25mg/kg, biotic prolonged rate = 33%, mus colon carcinoma, 0.31mg/kg, biotic prolonged rate = 69%, mus colon carcinoma, 2.5mg/kg, biotic prolonged rate = 43%); cardiotoxic; cytotoxic (KB). **Source:** DUO BIAN XIAO GUAN HUA *Coronilla varia*. **Ref:** 661.

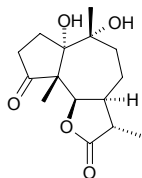
**10916 Hysterone A**

$C_{15}H_{20}O_5$ (280.32). Colorless crystals, mp 198~201°C, $[\alpha]_D^{25} = -14.84^\circ$ ($c = 1.0$, MeOH). **Source:** YIN JIAO JU *Parthenium hysterophorus* (flower). **Ref:** 3462.

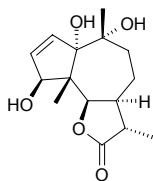


10917 Hysterone B

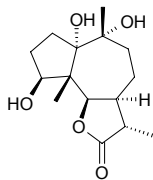
$C_{15}H_{22}O_5$ (282.34). Colorless viscous mass, $[\alpha]_D^{25} = +3.40^\circ$ ($c = 1.25$, MeOH). Source: YIN JIAO JU *Parthenium hysterophorus* (flower). Ref: 3462.

**10918 Hysterone C**

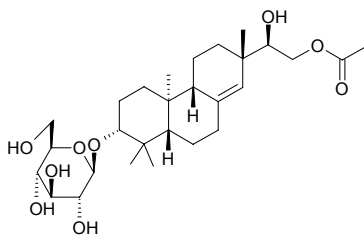
$C_{15}H_{22}O_5$ (282.34). Colorless crystals, mp 186~188°C, $[\alpha]_D^{25} = +30.54^\circ$ ($c = 1.25$, MeOH). Source: YIN JIAO JU *Parthenium hysterophorus* (flower). Ref: 3462, 4489.

**10919 Hysterone D**

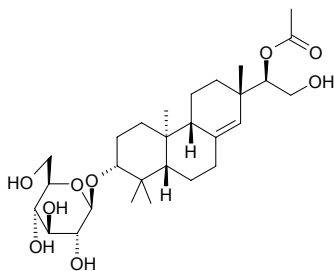
$C_{15}H_{24}O_5$ (284.36). Colorless viscous mass, $[\alpha]_D^{25} = -12.04^\circ$ ($c = 1.25$, MeOH). Source: YIN JIAO JU *Parthenium hysterophorus* (flower). Ref: 3462.

**10920 Hythiemoside A**

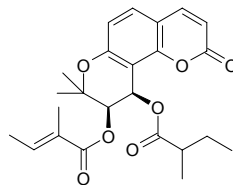
$C_{28}H_{46}O_9$ (526.67). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**10921 Hythiemoside B**

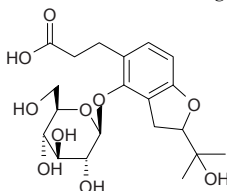
$C_{28}H_{46}O_9$ (526.67). White amorphous powder, $[\alpha]_D^{25} = -110^\circ$ ($c = 0.10$, MeOH). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**10922 Hyuganin A**

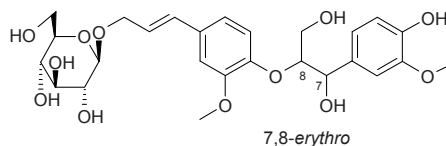
$C_{24}H_{28}O_7$ (428.49). Pharm: NO production inhibitor. Source: FEN CHA DANG GUI *Angelica furcijuga*. Ref: 1521.

**10923 Hyuganoside II**

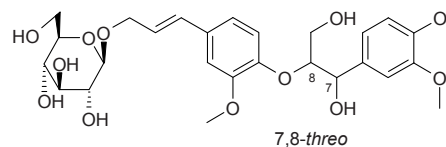
$C_{20}H_{28}O_{10}$ (428.44). White powder, $[\alpha]_D^{25} = +8.7^\circ$ ($c = 1.11$, MeOH). Source: FEN CHA DANG GUI *Angelica furcijuga*. Ref: 2567.

**10924 Hyuganoside IIIa**

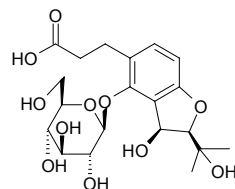
$C_{26}H_{34}O_{12}$ (538.55). White powder, $[\alpha]_D^{25} = -6.1^\circ$ ($c = 0.22$, MeOH). Source: FEN CHA DANG GUI *Angelica furcijuga*. Ref: 2567.

**10925 Hyuganoside IIIb**

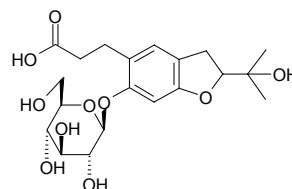
$C_{26}H_{34}O_{12}$ (538.55). White powder, $[\alpha]_D^{25} = -16.9^\circ$ ($c = 0.51$, MeOH). Source: FEN CHA DANG GUI *Angelica furcijuga*. Ref: 2567.

**10926 Hyuganoside IV**

$C_{20}H_{28}O_{11}$ (444.44). White powder, $[\alpha]_D^{27} = -5.5^\circ$ ($c = 1.00$, MeOH). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

**10927 Hyuganoside V**

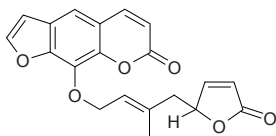
$C_{20}H_{28}O_{10}$ (428.44). White powder, $[\alpha]_D^{27} = -43.1^\circ$ ($c = 1.20$, MeOH). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.



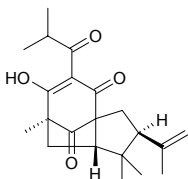
I

10928 I-23

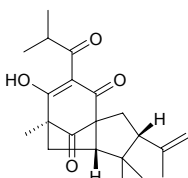
$C_{20}H_{16}O_6$ (352.35). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**10929 Ialibinone A**

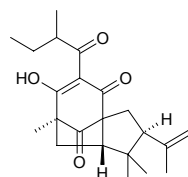
$C_{21}H_{28}O_4$ (344.45). Pharm: Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, $IC_{50} = (10 \pm 1) \mu\text{mol/L}$, increase of radical production = 100%, control Quercetin, $IC_{50} = (0.5 \pm 0.1) \mu\text{mol/L}$; OZ-induced, inactive). Source: *Hypericum papuanum*. Ref: 5371.

**10930 Ialibinone B**

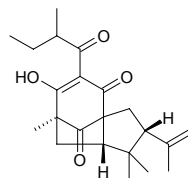
$C_{21}H_{28}O_4$ (344.45). Pharm: Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, $IC_{50} = (15 \pm 1) \mu\text{mol/L}$, max. effect 60%, control Quercetin, $IC_{50} = (0.5 \pm 0.1) \mu\text{mol/L}$; OZ-induced, inactive). Source: *Hypericum papuanum*. Ref: 5371.

**10931 Ialibinone C**

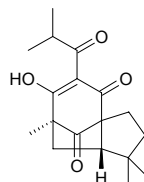
$C_{22}H_{30}O_4$ (358.48). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). Source: *Hypericum papuanum*. Ref: 5371.

**10932 Ialibinone D**

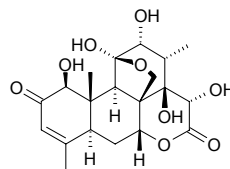
$C_{22}H_{30}O_4$ (358.48). Pharm: Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, $IC_{50} = (15 \pm 1) \mu\text{mol/L}$, max. effect 60%, control Quercetin, $IC_{50} = (0.5 \pm 0.1) \mu\text{mol/L}$; OZ-induced, inactive). Source: *Hypericum papuanum*. Ref: 5371.

**10933 Ialibinone E**

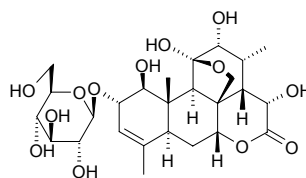
$C_{18}H_{24}O_4$ (304.39). Pharm: Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, $IC_{50} = (2.5 \pm 0.3) \mu\text{mol/L}$, control Quercetin, $IC_{50} = (0.5 \pm 0.1) \mu\text{mol/L}$; OZ-induced, inactive); DPPH scavenger inactive; antioxidant (H_2O_2 /horseradish peroxidase assay, $IC_{50} = 1.0 \mu\text{mol/L}$); superoxide scavenger (cytochrome C assay)^[5371]. Source: *Hypericum papuanum*. Ref: 5371.

**10934 Iandonone**

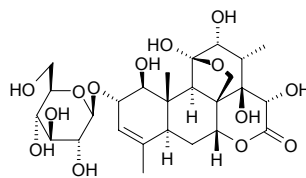
$C_{20}H_{26}O_9$ (410.42). Amorphous powder, $[\alpha]_D^{20} = +4.6^\circ$ ($c = 0.4$, MeOH). Source: *Eurycoma harmandiana* (root). Ref: 5164.

**10935 Iandonoside A**

$C_{26}H_{38}O_{13}$ (558.58). Amorphous powder, $[\alpha]_D^{20} = +19.1^\circ$ ($c = 0.3$, MeOH). Source: *Eurycoma harmandiana* (root). Ref: 5164.

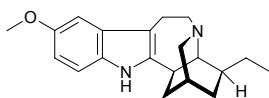
**10936 Iandonoside B**

$C_{26}H_{38}O_{14}$ (574.58). Amorphous powder, $[\alpha]_D^{20} = +4.1^\circ$ ($c = 0.7$, MeOH). Source: *Eurycoma harmandiana* (root). Ref: 5164.

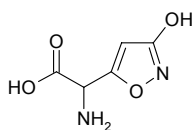


10937 Ibogaine

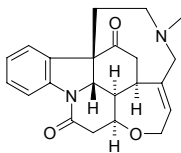
$C_{20}H_{26}N_2O$ (310.44). Source: LUO SHI TENG *Trachelospermum jasminoides*. Ref: 660.

**10938 Ibotenic acid**

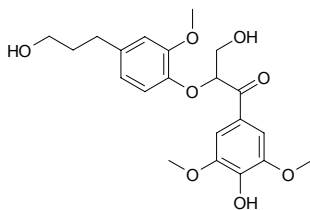
[2552-55-8] $C_5H_6N_2O_4$ (158.11). mp 151~152°C (dec). Pharm: Insecticidal. Source: *Amanita* spp. (the compound was isolated in 1964)^[5505] Ref: 5, 658, 1521, 5505.

**10939 Icajine**

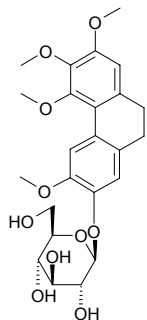
[5525-31-5] $C_{22}H_{24}N_2O_3$ (364.45). mp 271~272°C (dec), $[\alpha]_D = -10^\circ$ ($c = 1$, $CHCl_3$). Source: MA QIAN ZI *Strychnos nux-vomica*, ZHONG FEI MA QIAN *Strychnos icaja*, CHANG ZI MA QIAN *Strychnos wallichiana*. Ref: 2, 542, 1521.

**10940 Icarinol A₁**

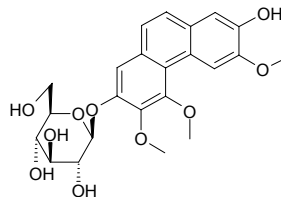
$C_{21}H_{26}O_8$ (406.44). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660.

**10941 Icariside A₁**

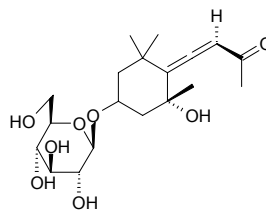
$C_{24}H_{30}O_{10}$ (478.50). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660.

**10942 Icariside A₇**

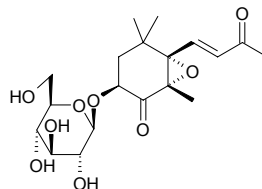
$C_{23}H_{26}O_{10}$ (462.46). White powder. Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 417.

**10943 Icariside B₁**

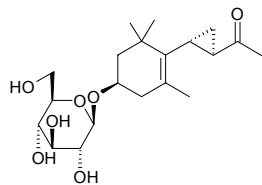
$C_{19}H_{30}O_8$ (386.45). White amorphous powder, $[\alpha]_D = -73.5^\circ$ (MeOH). Source: DUO LIE WEI LING CAI *Potentilla multifida* (whole herb), HUA NAN WU ZHU YU *Evodia austrosinensis*. Ref: 4821, 5052.

**10944 Icariside B₂**

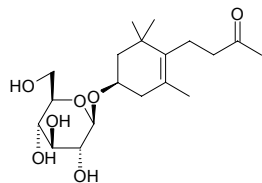
$C_{19}H_{28}O_9$ (400.43). mp 173~174°, $[\alpha]_D^{25} = -51^\circ$. Pharm: Inhibits cancer cell invasion (MM1 cells, *in vitro*, 10μg/mL, InRt = 19.4%)^[4329]. Source: DA HUA YIN YANG HUO *Epimedium grandiflorum*, HEI ZI LI GUO JI SHENG *Scurrura atropurpurea* (yield = 0.0051%), HU SUI ZI *Coriandrum sativum*, SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4302, 4329, 4478.

**10945 Icariside B₂**

$C_{20}H_{32}O_7$ (384.47). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660, 1521.

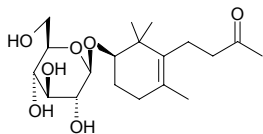
**10946 Icariside B₆**

$C_{19}H_{32}O_7$ (372.46). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660.

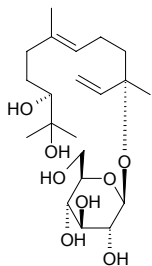


10947 Icariside B₉

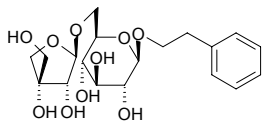
[135743-11-2] C₁₉H₃₂O₇ (372.46). Amorphous powder, $[\alpha]_D^{23} = -42.9^\circ$ ($c = 0.14$, MeOH). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 2, 660, 1521.

**10948 Icariside C₃**

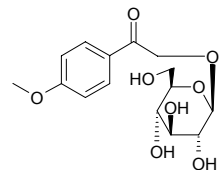
C₂₁H₃₈O₈ (418.53). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

**10949 Icariside D₁**

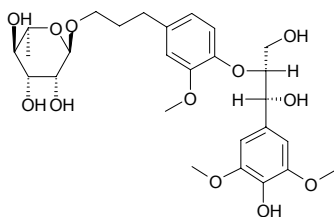
C₁₉H₂₈O₁₀ (416.43). Source: SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.0002%), ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292, 4792.

**10950 Icariside D₃**

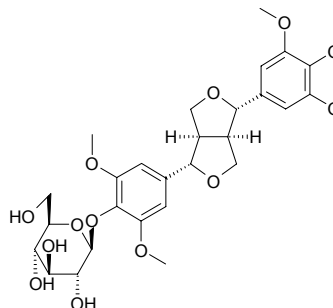
[135743-08-7] C₁₅H₂₀O₈ (328.32). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 1521.

**10951 Icariside E₆**

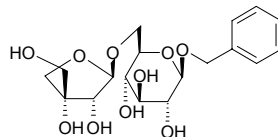
[135774-83-3] C₂₇H₃₈O₁₂ (554.60). Amorphous powder, $[\alpha]_D^{23} = -12.5^\circ$ ($c = 0.3$, MeOH). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660, 1521.

**10952 Icariside E₇**

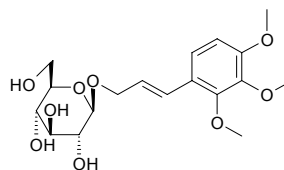
C₂₉H₃₈O₁₃ (594.62). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 2, 660.

**10953 Icariside F₂**

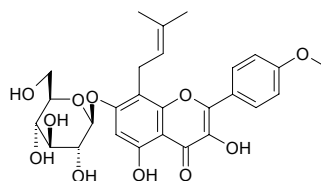
Benzyl β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₁₈H₂₆O₁₀ (402.40). mp 133–135°C, $[\alpha]_D^{22} = -98^\circ$; mp 133–135°C, $[\alpha]_D^{21} = -98^\circ$; $[\alpha]_D^{25} = -84^\circ$, ($c = 0.1$, MeOH). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μ mol/L, StRt or InRt < 10%, 10 μ mol/L, StRt or InRt < 10%, 100 μ mol/L, StRt or InRt < 10%, 1 mmol/L, StRt or InRt < 10%; *Raphanus sativus*, 1 μ mol/L, StRt or InRt < 10%, 10 μ mol/L, StRt or InRt < 10%, 100 μ mol/L, StRt or InRt < 10%, 1 mmol/L, StRt or InRt < 10%; *Allium cepa*, 1 μ mol/L, StRt = (10–30)%, 10 μ mol/L, StRt = (10–30)%, 100 μ mol/L, InRt = (10–30)%, 1 mmol/L, InRt = (10–30)%^[5217]. Source: BEI SHA SHEN *Glehnia littoralis* (fruit), CANG ZHU *Atractylodes lancea*, HU SUI ZI *Coriandrum sativum*, SHI LUO ZI *Anethum graveolens* (fruit), XI YANG JIE GU MU *Sambucus nigra*, YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). Ref: 3525, 4177, 4302, 4348, 5036, 5217.

**10954 Icariside H₁**

[135743-09-8] C₁₈H₂₆O₉ (386.40). Amorphous powder, $[\alpha]_D^{23} = -47.6^\circ$ ($c = 0.62$, MeOH). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 2, 660, 1521.

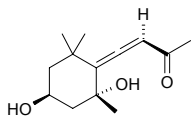
**10955 Icariside I**

[56725-99-6] C₂₇H₃₀O₁₁ (530.53). Yellow needles (MeOH), mp 256°C, mp 248°C (dec), $[\alpha]_D^{15} = -28.4^\circ$ (pyridine). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*, DA HUA YIN YANG HUO *Epimedium grandiflorum*. Ref: 2, 660, 1521.

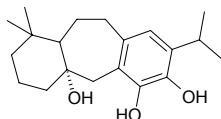


10956 Icarisidin B₁

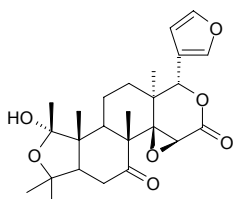
$C_{13}H_{20}O_3$ (224.30). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 660.

**10957 8,11,13-Icetexantrien-10,11,12-triol**

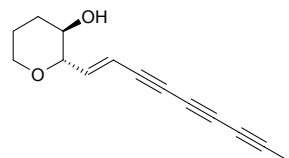
$C_{21}H_{30}O_3$ (318.46). Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 4538.

**10958 Ichangensin**

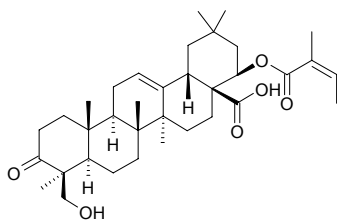
$C_{25}H_{32}O_7$ (444.53). Source: SU DA QI GAN JU *Citrus sudachii* (seed). Ref: 3532.

**10959 Ichthyothereol**

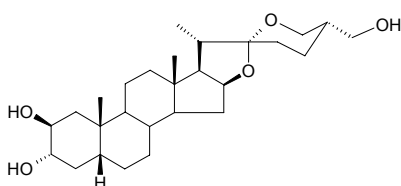
[2294-61-3] $C_{14}H_{14}O_2$ (214.27). Pharm: Supertoxic agent. Source: HONG DA LI HUA *Dahlia coccinea*. Ref: 1521.

**10960 Icterogenin**

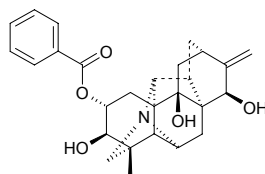
$C_{35}H_{52}O_6$ (568.80). Pharm: Anti-androgenic (testosterone-5 α -reductase inhibitor, 50 μ g/mL, InRt = 78.55%, control Glabridine, 50 μ g/mL, InRt = 48.20%). Source: DUO SUI PO BU MU *Cordia multispicata* (leaf). Ref: 4106.

**10961 Igagenin**

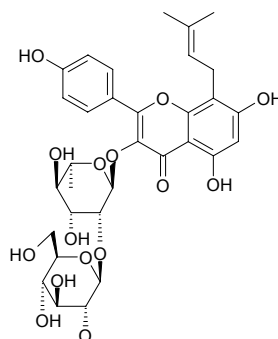
[21152-89-6] $C_{27}H_{44}O_5$ (448.65). mp 248~249°C, $[\alpha]_D = -43.6^\circ$ (CHCl₃). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660, 1521.

**10962 Ignavine**

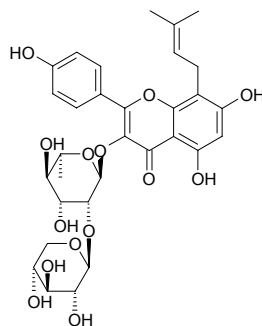
Hetisan-2,3,9,15-tetrol 2-benzoate $C_{27}H_{31}NO_5$ (449.55). Source: WU TOU *Aconitum carmichaeli*. Ref: 660.

**10963 Ikariside B**

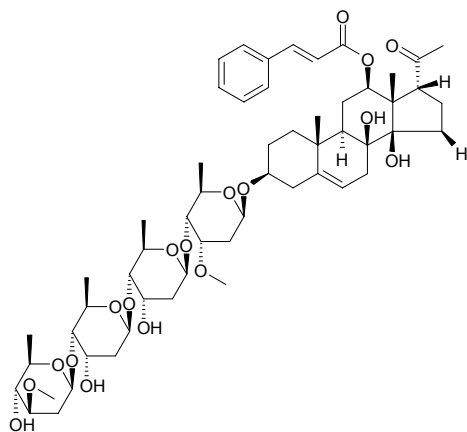
[113558-10-4] $C_{32}H_{38}O_{15}$ (662.65). mp 180~182°C. Source: CU MAO YIN YANG HUO *Epimedium acuminatum*, WAN SHAN YIN YANG HUO *Epimedium wanshanense*. Ref: 574, 599.

**10964 Ikariside F**

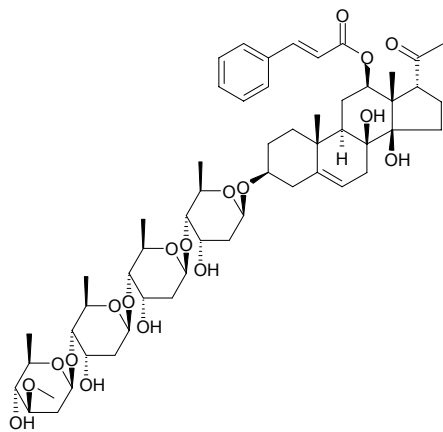
[113558-14-8] $C_{31}H_{36}O_{14}$ (632.62). Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum* (aerial parts: content = 0.072%)^[5508], JIAN YE YIN YANG HUO *Epimedium sagittatum* (aerial parts: content = 0.108%)^[5508], ROU MAO YIN YANG HUO *Epimedium pubescens* (aerial parts: content = 0.068%)^[5508], WU SHAN YIN YANG HUO *Epimedium wushanense* (aerial parts: content = 0.096%)^[5508], YIN YANG HUO *Epimedium brevicornum* (aerial parts: content = 0.065%)^[5508]. Ref: 565, 5508.



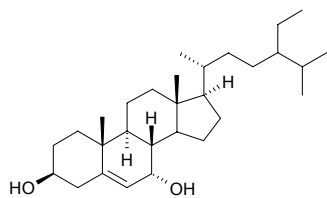
10965 Ikemagenin 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside
 $C_{56}H_{82}O_{18}$ (1043.27). Amorphous powder, $[\alpha]_D^{27} = +14.4^\circ$ ($c = 0.89$, MeOH).
 Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



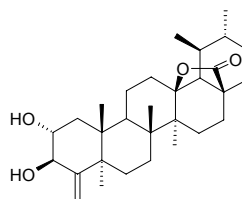
10966 Ikemagenin 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside
 $C_{55}H_{80}O_{18}$ (1029.24). Amorphous powder, $[\alpha]_D^{27} = +12.1^\circ$ ($c = 0.52$, MeOH).
 Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



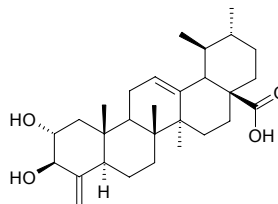
10967 Ikshusterol
 Stigmast-5-ene-3 β ,7 α -diol [34427-61-7] $C_{29}H_{50}O_2$ (430.72). Crystals (MeOH),
 mp 129–133°C, mp 202–204°C, $[\alpha]_D = -27^\circ$ (CHCl₃). Pharm:
 Anti-inflammatory (mus, inflammation caused by TPA, 1.0mg/ear, InRt =
 36%); dissolves fibrin (*in vitro*, fibrin plate test, 1mg/mL, dissolving activity
 = 18.0mm). Source: HONG HUA PI *Betula platyphylla* var. *japonica*, KUAN
 YE XIANG PU *Typha latifolia*, KUN MING JI XUE TENG *Milletia
 dielsiana*, MI HUA DOU *Spatholobus suberectus*, YAO YONG GAN ZHE
Saccharum officinarum, YI ZHU QIAN MA *Urtica dioica*, FENG LI *Ananas
 comosus*. Ref: 900, 1521.



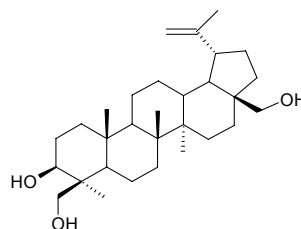
10968 Ilekudinol A
 $C_{30}H_{46}O_4$ (470.70). Source: KU DING CHA DONG QING *Ilex kudingcha*.
 Ref: 2160.



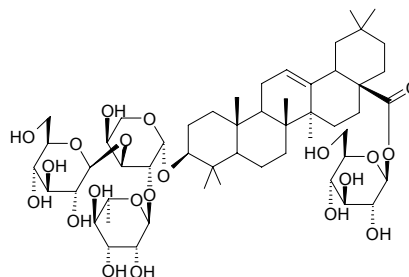
10969 Ilekudinol B
 $C_{29}H_{44}O_4$ (456.67). Source: KU DING CHA DONG QING *Ilex kudingcha*.
 Ref: 2160.

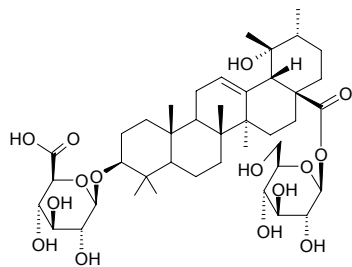
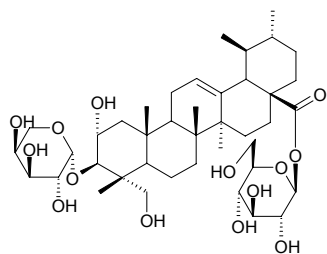
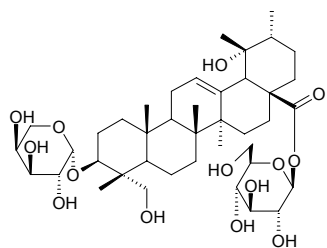
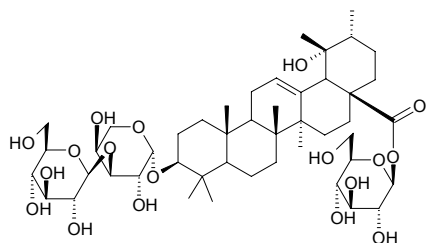
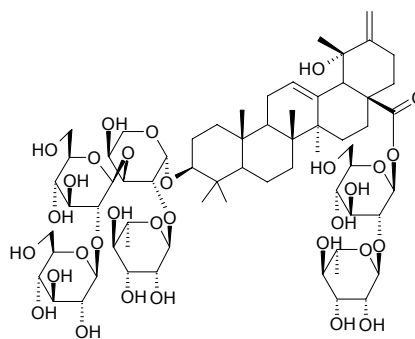
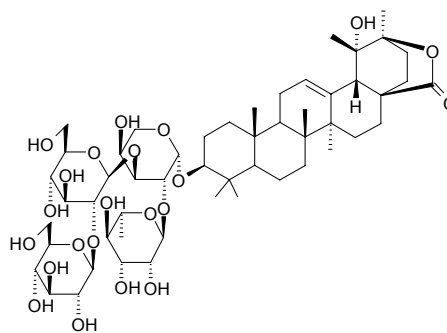
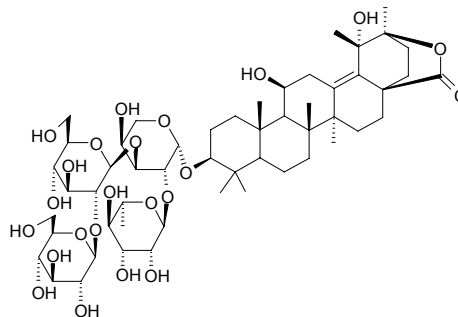


10970 Ilekudinol C
 $C_{30}H_{50}O_3$ (458.73). Source: KU DING CHA DONG QING *Ilex kudingcha*.
 Ref: 2160.



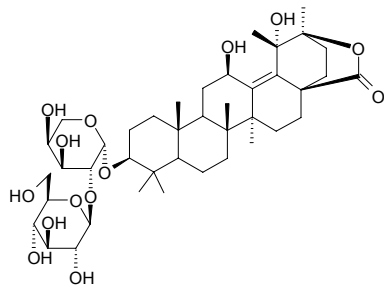
10971 Ilekudinoside A
 $C_{53}H_{86}O_{21}$ (1059.26). Source: KU DING CHA DONG QING *Ilex kudingcha*.
 Ref: 5504.



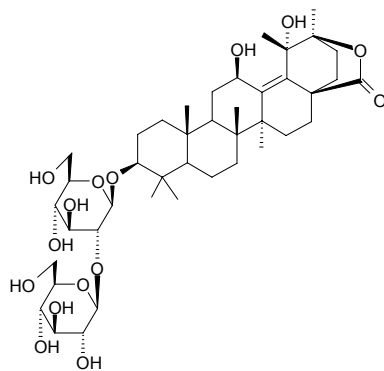
10972 Ilekudinoside BC₄₂H₆₆O₁₅ (810.99). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10973 Ilekudinoside C**C₄₁H₆₆O₁₄ (782.97). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10974 Ilekudinoside D**C₄₁H₆₆O₁₄ (782.97). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10975 Ilekudinoside E**C₄₇H₇₆O₁₈ (929.12). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10976 Ilekudinoside F**C₆₅H₁₀₄O₃₁ (1381.54). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10977 Ilekudinoside G**3-*O*-β-*D*-Glucopyranosyl(1→2)-β-*D*-glucopyranosyl-[α-*L*-rhamnopyranosyl(1→2)]-α-*L*-arabinopyranosyl 3β,19α-dihydroxy-urs-12-en-28,20β-olideC₅₃H₈₄O₂₂ (1073.25). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.**10978 Ilekudinoside H**3-*O*-β-*D*-Glucopyranosyl(1→2)-β-*D*-glucopyranosyl-[α-*L*-rhamnopyranosyl(1→2)]-α-*L*-arabinopyranosyl γ-kudinlactone C₅₃H₈₄O₂₃ (1089.25). Source: KU DING CHA DONG QING *Ilex kudingcha*.Ref: 5504.

10979 Ilexudinoside I

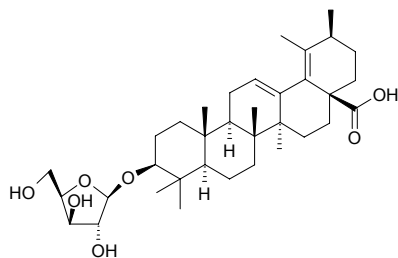
3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl β -kudinlactone
 $C_{41}H_{64}O_{14}$ (780.96). Source: KU DING CHA DONG QING *Ilex kudingcha*.
Ref: 5504.

**10980 Ilexudinoside J**

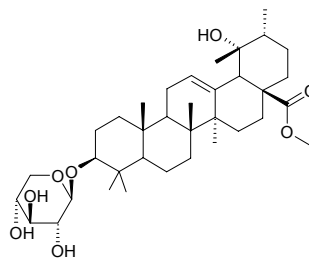
3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl β -kudinlactone
 $C_{42}H_{66}O_{15}$ (810.99). Source: KU DING CHA DONG QING *Ilex kudingcha*.
Ref: 5504.

**10981 Ilexolide A**

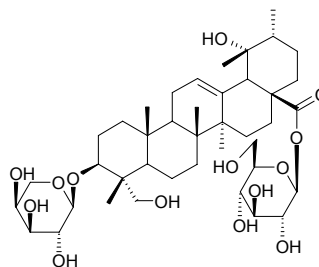
Ilexolide [85344-31-6] $C_{35}H_{54}O_7$ (586.82). Pharm: Cardiotonic. Source: MAO DONG QING *Ilex pubescens*. Ref: 658.

**10982 Ilexoside B methyl ester**

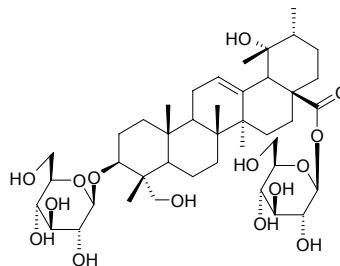
3 β -*O*-(β -*D*-Xylopyranosyl) pomolic acid methyl ester $C_{36}H_{58}O_8$ (618.86).
Source: SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*]. Ref: 660.

**10983 Ilexoside XXVII**

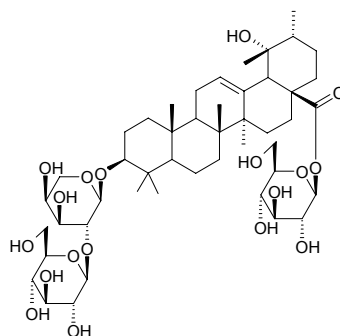
$C_{41}H_{66}O_{14}$ (782.97). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**10984 Ilexoside XXXVII**

$C_{42}H_{68}O_{15}$ (813.00). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

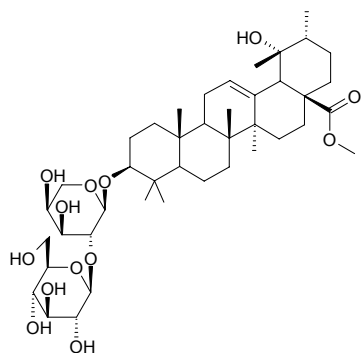
**10985 Ilexside II**

$C_{47}H_{76}O_{18}$ (929.12). Source: GOU GU YE *Ilex cornuta*. Ref: 660.

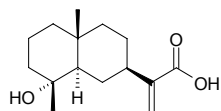


10986 Ilexside I methyl ester

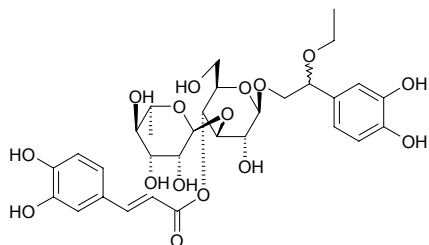
$C_{42}H_{68}O_{13}$ (781.00). Source: GOU GU YE *Ilex cornuta*. Ref: 660.

**10987 Ilicic acid**

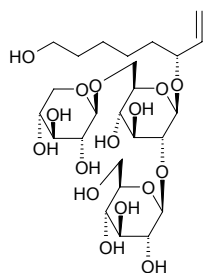
$C_{15}H_{24}O_3$ (252.36). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.09%dw). Ref: 4709.

**10988 Ilicifolioside A**

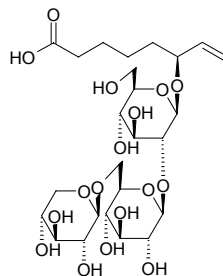
$C_{31}H_{40}O_{16}$ (668.65). Amorphous powder, $[\alpha]_D^{25} = -72^\circ$ ($c = 0.8$, MeOH). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 3397.

**10989 Ilicifolioside B**

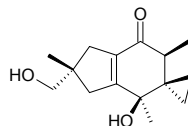
$C_{25}H_{44}O_{16}$ (600.62). Amorphous powder, $[\alpha]_D^{25} = -51^\circ$ ($c = 0.6$, MeOH). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 3397.

**10990 Ilicifolioside C**

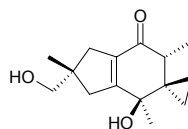
(6*R*)-6-Hydroxyl-7-octenoic acid
6-*O*- β -*D*-xylopyranosyl-(1"^m→6")-*O*- β -*D*-glucopyranosyl-(1"ⁿ→2')-*O*- β -*D*-glucopyranoside $C_{25}H_{42}O_{17}$ (614.60). Amorphous powder, $[\alpha]_D^{25} = -48^\circ$ ($c = 0.6$, MeOH). Source: LAO SHU LE *Acanthus ilicifolius* (aerial parts). Ref: 4392.

**10991 Illudin I**

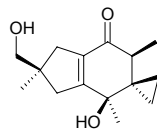
$C_{15}H_{22}O_3$ (250.34). Oil, $[\alpha]_D = -41^\circ$ ($c = 0.09$, MeOH). Source: fungus *Coprinopsis episcopalis*. Ref: 3760.

**10992 Illudin I₂**

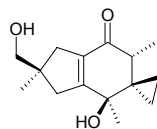
$C_{15}H_{22}O_3$ (250.34). Oil, $[\alpha]_D = +22.5^\circ$ ($c = 0.08$, MeOH). Source: fungus *Coprinopsis episcopalis*. Ref: 3760.

**10993 Illudin J**

$C_{15}H_{22}O_3$ (250.34). Oil. Source: fungus *Coprinopsis episcopalis*. Ref: 3760.

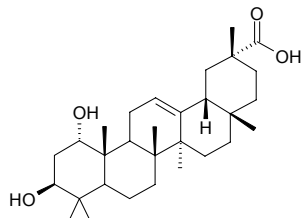
**10994 Illudin J₂**

$C_{15}H_{22}O_3$ (250.34). Oil, $[\alpha]_D = -26^\circ$ ($c = 0.034$, MeOH). Source: fungus *Coprinopsis episcopalis*. Ref: 3760.

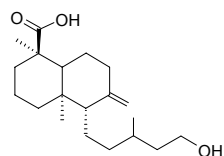


10995 Imberbic acid

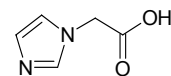
$C_{30}H_{48}O_4$ (472.71). Source: WU MAO FENG CHE ZI *Combretum imberbe*. Ref: 1521.

**10996 Imbricatolic acid**

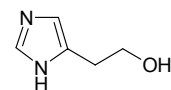
$C_{20}H_{34}O_3$ (322.49). Source: MA WEI SONG YE *Pinus massoniana*, *Araucaria imbricata*. Ref: 660, 1521.

**10997 1-Imidazolylacetic acid**

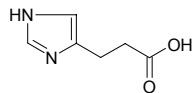
$C_5H_6N_2O_2$ (126.12). mp 268–269°C (dec). Source: GUI GAI *Coprinus atramentarius*. Ref: 6.

**10998 2-(4'-Imidazolylethanol)**

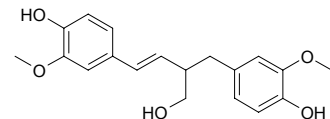
$C_5H_8N_2O$ (112.13). Source: GUI GAI *Coprinus atramentarius*. Ref: 6.

**10999 Imidazolylpropionic acid**

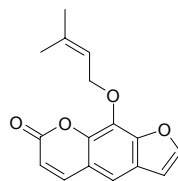
[1074-59-5] $C_6H_8N_2O_2$ (140.14). mp 206–208°C. Source: GUI GAI *Coprinus atramentarius*. Ref: 6, 1521.

**11000 Imperanene**

$C_{19}H_{22}O_5$ (330.38). Pharm: Platelet aggregation inhibitor (rbt, induced by thrombase, 0.3mmol/L, InRt = 100%). Source: BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*. Ref: 5501.

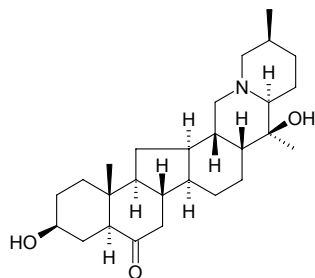
**11001 Imperatorin**

[482-44-0] $C_{16}H_{14}O_4$ (270.29). Yellow amorphous powder, mp 102–104°C. Pharm: NO Production inhibitor (LPS-activated mouse peritoneal macrophages, $IC_{50} = 60\mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 28\mu\text{mol/L}$)^[4454]; reversing MDR of KBV200 cells (obviously)^[2787]; PGE₂ production inhibitor (rat peritoneal macrophages, LPS-induced, 0.1 $\mu\text{mol/L}$; inhibits LPS-induced expression of COX-2 and mPGES, not directly inhibits COX-1 and COX-2)^[5392]; T-cell Proliferation inhibitor^[4071]; cytotoxic (24h: HL-60, $IC_{50} = 18.8\mu\text{g/mL}$, control Adriamycin $IC_{50} < 0.10\mu\text{g/mL}$; P₃₈₈, $IC_{50} = 20.2\mu\text{g/mL}$, Adriamycin $IC_{50} < 0.10\mu\text{g/mL}$; Colon205, $IC_{50} > 50\mu\text{g/mL}$, Adriamycin $IC_{50} = 0.63\mu\text{g/mL}$; HeLa, $IC_{50} > 50\mu\text{g/mL}$, Adriamycin $IC_{50} = 0.15\mu\text{g/mL}$)^[5486]; cytotoxic (12h: HL-60, $IC_{50} = 26.9\mu\text{g/mL}$, control Adriamycin $IC_{50} = 0.18\mu\text{g/mL}$; primary culture hmn PBMCs, $IC_{50} = 68.1\mu\text{g/mL}$, SI = 2.5, Adriamycin $IC_{50} = 0.54\mu\text{g/mL}$, SI = 3.3)^[5486]; antileishmanial (*Leishmania major* promastigote, 10 $\mu\text{mol/L}$, survival = (70.5±5.0)%, 1 $\mu\text{mol/L}$, survival = (83.0±1.9)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.20±0.04)%, 1 $\mu\text{mol/L}$, survival = (71.9±4.4%))^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2 μg)^[3797]. Source: AO PA CAO *Oppopanax chironium* (root), BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] (dried root: content scope of 6 origins = 0.065%–0.141%, mean content = 0.104%^[5508]), BEI SHA SHEN *Glehnia littoralis* (root: mean content of 6 origins = 0.00109%^[5508]), CHOU SHAN YANG *Oriza japonica* (stem: yield = 0.001%dw)^[4774], FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], FEN CHA DANG GUI *Angelica furcijuga* (flower), HANG BAI ZHI *Angelica taiwaniana* (dried root: content scope of 19 origins = 0.042%–0.168%, mean content = 0.103%^[5508]), JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], OU QIAN HU *Peucedanum ostruthium* (in 1933 the compound was isolated from the plant by E.Spath)^[5505], QI BAI ZHI *Angelica dahurica* cv. *Qibaizhi* (sundried root: content scope of 10 origins = 0.142%–0.296%, mean content = 0.213%^[5516]), SHE CHUANG ZI *Cnidium monnieri* (ripe seed: content scope = 1.8%–2.2%^[5501], mean content = 1.30%^[5508]), SONG YE FANG FENG *Seseli yunnanense*, YUN NAN QIANG HUO *Pleurospermum rivulorum*, YUN QIAN HU *Peucedanum rubricaulis*, *Niphogeton ternata*, *Thamnosma rhodesica* (root). Ref: 2, 11, 177, 549, 551, 660, 2787, 3797, 4071, 4156, 4454, 4774, 5392, 5486, 5501, 5505, 5508, 5516.

**11002 Imperialine**

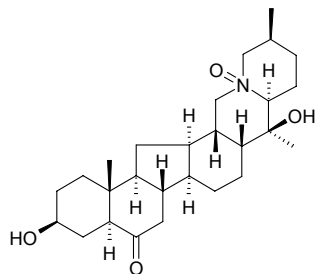
Sipeimine⁺; Kashmirine; Raddeanine [61825-98-7] $C_{27}H_{43}NO_3$ (429.65). Colorless hexagonal–prisms (EtOH), mp 273–275°C (dec), $[\alpha]_D^{23} = -32^\circ$ ($c = 0.5$, $CHCl_3$), mp 267–269°C; Colorless prismatic crystals (ethanol), mp 269°C, $[\alpha]_D^{18} = -33.8^\circ$ ($c = 0.696$, chloroform); $[\alpha]_D^{19} = -39.4^\circ$ ($c = 0.838$, absolute ethanol). Pharm: AChE inhibitor ($IC_{50} > 500\mu\text{mol/L}$, control Eserine, $IC_{50} = (0.41\pm 0.001)\mu\text{mol/L}$)^[4217]; BChE inhibitor ($IC_{50} = (121.5\pm 6.6)\mu\text{mol/L}$, control Eserine, $IC_{50} = (0.857\pm 0.008)\mu\text{mol/L}$)^[4217]; antispasmodic (spasm

caused by acetylcholine chloride, di-*p*-octylphenylphosphoric acid histamine and BaCl₂); smooth muscle relaxant (gpg ileum *in vitro*, rbt duodenum *in vitro*, rat uterus *in vitro*, rat small intestine *in vivo*); vasodilator (peripheral, anesthetic dog, causes low blood pressure); LD₅₀ (rat) = 90mg/kg, (rat, chloride) = 50mg/kg. **Source:** AN ZI BEI MU *Fritillaria unibracteata* (bulb: mean content = 0.00245%)^[5508], CHUAN BEI MU *Fritillaria cirrhosa* (bulb: mean content = 0.056%)^[5508], GAN SU BEI MU *Fritillaria przewalskii*, LENG SHA BEI MU *Fritillaria delavayi*, NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*, XI BEI MU *Fritillaria imperialis* (bulb), XIN JIANG BEI MU *Fritillaria walujewii*, YI BEI MU *Fritillaria pallidiflora*. **Ref:** 4, 6, 271, 658, 660, 1521, 4217, 5508.



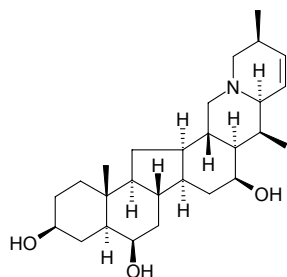
11003 Imperialine N-oxide

C₂₇H₄₃NO₄ (445.65). **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 660.



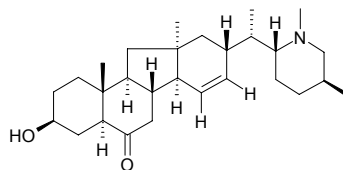
11004 Impericine

(20*R*,22*S*,25*S*)-5α-Cevanin-23-ene-3β,6β,16β-triol C₂₇H₄₃NO₃ (429.65). Needle-like crystals, mp 195~197°C (dec), [α]_D²⁵ = -28° (*c* = 0.5, CHCl₃). **Pharm:** AChE inhibitor (IC₅₀ = (67.97±2.46)μmol/L, control Eserine, IC₅₀ = (0.41±0.001)μmol/L); BChE inhibitor (IC₅₀ = 1.607μmol/L, control Eserine, IC₅₀ = (0.857±0.008)μmol/L). **Source:** XI BEI MU *Fritillaria imperialis* (bulb). **Ref:** 4217.



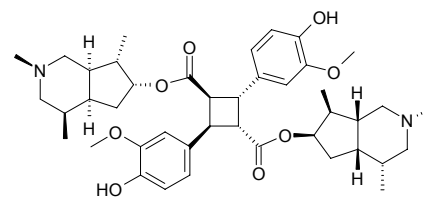
11005 Impranine

3*S*,17*R*,20*S*,22*R*)-5α-Impra-15,16-ene-6-one C₂₈H₄₅NO₂ (427.68). Amorphous powder, [α]_D²⁵ = +28° (*c* = 0.05, MeOH). **Source:** XI BEI MU *Fritillaria imperialis*. **Ref:** 3372.



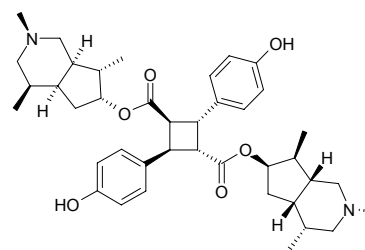
11006 Incarvilleine

C₄₂H₅₈N₂O₈ (718.94). **Source:** JIAO HAO *Incarvillea sinensis* (aerial parts). **Ref:** 4509.



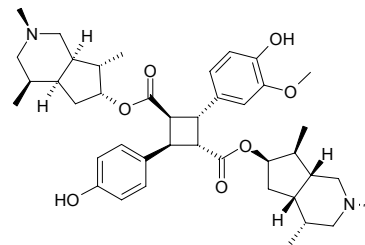
11007 Incarvilleine C

C₄₀H₅₄N₂O₆ (658.89). White powder, [α]_D¹⁷ = -3.2° (*c* = 0.30, CHCl₃). **Source:** JIAO HAO *Incarvillea sinensis*. **Ref:** 2305.



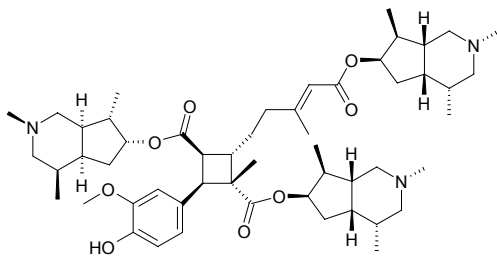
11008 Incarvilleine D

C₄₁H₅₆N₂O₇ (688.91). White powder, [α]_D¹⁶ = -5.1° (*c* = 0.30, CHCl₃). **Source:** JIAO HAO *Incarvillea sinensis*. **Ref:** 2305.

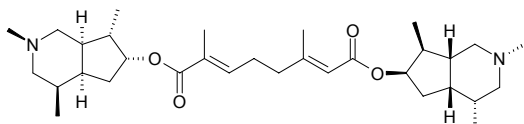


11009 Incarvillateine E

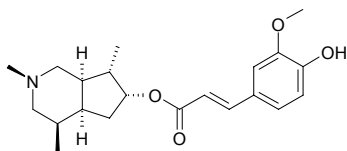
$C_{53}H_{81}N_3O_8$ (888.25). White powder, $[\alpha]_D^{23} = -6.4^\circ$ ($c = 0.32$, $CHCl_3$). Source: JIAO HAO *Incarvillea sinensis* (aerial parts). Ref: 4509.

**11010 Incarvine A**

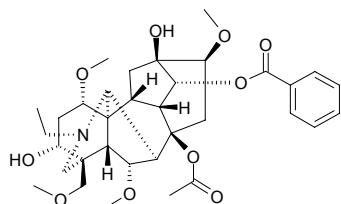
$C_{32}H_{52}N_2O_4$ (528.78). Source: JIAO HAO *Incarvillea sinensis* (aerial parts). Ref: 4509.

**11011 Incarvine C**

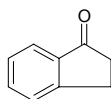
$C_{21}H_{29}NO_4$ (359.47). Source: JIAO HAO *Incarvillea sinensis* (aerial parts). Ref: 4509.

**11012 Indaconitine**

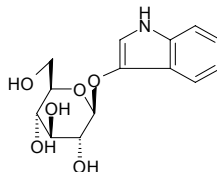
[4491-19-4] $C_{34}H_{47}NO_{10}$ (629.75). Crystals (Et_2O), mp 200–203°C, mp 190–191°C, $[\alpha]_D = +18.3^\circ$ ($c = 2.0$, $EtOH$). Pharm: Toxin. Source: FA KANG WU TOU *Aconitum falconeri*, GUA YE WU TOU *Aconitum hemsleyanum*, NI BO ER WU TOU *Aconitum ferox*, ZHAN HUA WU TOU *Aconitum chasmanthum*, ZI WU TOU *Aconitum violaceum*. Ref: 658, 1521, 3171.

**11013 1-Indanone**

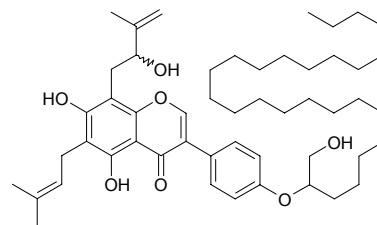
Indan-1-one; α -Indanone [83-33-0] C_9H_8O (132.16). mp 42°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6.

**11014 Indican glucoside**

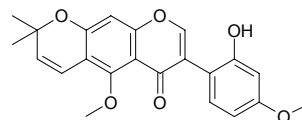
$C_{14}H_{17}NO_6$ (295.29). mp 178–180°C (anhydride). Source: BAN LAN GEN *Isatis indigotica* (dried root: content = 0.0145%)^[5508], DA QING YE *Isatis indigotica* (dried leaf: content = 0.0305%)^[5508], GANG BAN GUI GEN *Polygonum perfoliatum*, LIAO LAN YE *Polygonum tinctorium* (dried leaf: content = 4.069% (period of dense leaves))^[5508], MU LAN⁽²⁾ *Indigofera tinctoria*. Ref: 6, 5508.

**11015 Indicanine D**

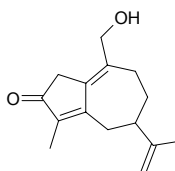
5,7-Dihydroxy-6(γ,γ -dimethylallyl)-8-(2''-hydroxy-3''-methylbut-3''-enyl)-4'-(1''-hydroxymethylpenta cosanyl)isoflavone $C_{51}H_{78}O_7$ (803.19). Yellow needles, mp 212–214°C, $[\alpha]_D^{20} = +8.5^\circ$ ($c = 0.045$, $MeOH$). Pharm: Cytotoxic (KB, $EC_{50} = 12.5\mu g/mL$). Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex). Ref: 5220.

**11016 Indicanine E**

2'-Hydroxy-5,4'-dimethoxy-2''-2''-dimethylpyran-[5''-6'':6,7]isoflavone $C_{22}H_{20}O_6$ (380.40). Brown crystals, mp 138–139°C. Source: CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex). Ref: 5220.

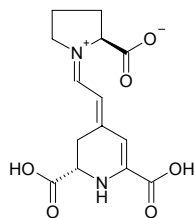
**11017 Indicanone**

$C_{15}H_{20}O_2$ (232.33). Colorless oil, $[\alpha]_D^{25} = +14.3^\circ$, ($c = 0.11$, $MeOH$). Pharm: NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , $IC_{50} = 9.3\mu mol/L$, control Quercetin, $IC_{50} = 24.8\mu mol/L$)^[2541]; inhibits the inducible nitric oxide synthase (iNOS) gene expression (LPS/IFN- γ treatment increased the level of iNOS mRNA expression, and indicanone (a sesquiterpene of guanine type) inhibits this increase); cytotoxic inactive (MTT assay, 3–30 $\mu mol/L$ didn't show any cytotoxic effect)^[2541]; anti-inflammatory (may be useful for the treatment of various inflammatory diseases). Source: LIAO GE WANG GEN *Wikstroemia indica*. Ref: 2541.

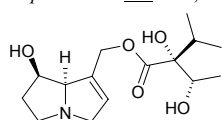


11018 Indicaxanthin

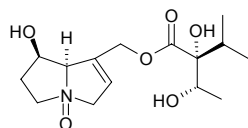
[2181-75-1] $C_{14}H_{16}N_2O_6$ (308.29). Orange crystals (H_2O), mp 160~162°C (dec). **Pharm:** Yellow pigment. **Source:** LI GUO XIAN REN ZHANG *Opuntia ficus-indica*, ZI MO LI GEN *Mirabilis jalapa*, DA HUA MA CHI XIAN *Portulaca grandiflora*. **Ref:** 6, 658, 1521.

**11019 Indicine**

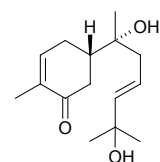
[480-82-0] $C_{15}H_{25}NO_5$ (299.37). **Pharm:** Antineoplastic (mus leukemia, its N-oxide being more effective); hepatotoxin (animal model). **Source:** DA WEI YAO *Heliotropium indicum*, BAO JING TIAN JIE CAI *Heliotropium amplexicaule*. **Ref:** 658, 1521.

**11020 Indicine N-oxide**

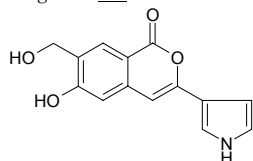
$C_{15}H_{25}NO_6$ (315.37). Combining with one methanol (methanol-acetone), colorless acicular crystals, easy decomposing under moisture, mp 130~131°C (decomposition point 165~166°C). **Pharm:** Antineoplastic (mus, P_{388} , 50~800mg/kg, continuous ip administration produces good treatment results, inefficient by oral or sc); CVS activity (dog, ip, 500mg/kg, electrocardiogram changed); supertoxic agent (ip, 2000~3000mg/kg, supertoxic agent to heart, spleen, kidney and duodenum). **Source:** DA WEI YAO *Heliotropium indicum*. **Ref:** 661.

**11021 Indicumenone**

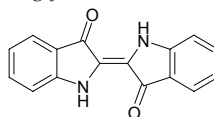
$C_{15}H_{24}O_3$ (252.36). **Source:** YE JU HUA *Chrysanthemum indicum*. **Ref:** 660.

**11022 Indigotiisocoumarin A**

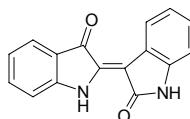
3-(3-Pyrrol)-6-hydroxy-7-hydroxymethyl-isocoumarin $C_{14}H_{11}NO_4$ (257.25). Red crystals (MeOH), mp 130~131°C. **Source:** BAN LAN GEN *Isatis indigotica*. **Ref:** 4905.

**11023 Indigotin**

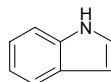
Indigo [482-89-3] $C_{16}H_{10}N_2O_2$ (262.27). Blue powder, mp 390~392°C. **Pharm:** Cytotoxic (mus, Lewis lung carcinoma, W256 sarcoma)^[5369], cyclin-dependent kinase inhibitor^[5369]. **Source:** BAN LAN GEN *Isatis indigotica*, DA QING YE *Isatis indigotica* (leaf: content scope = 2.21%~8.00%^[5501]), LIAO LAN YE *Polygonum tinctorium*, MU LAN⁽²⁾ *Indigofera tinctoria*. **Ref:** 2, 660, 1521, 5369, 5501.

**11024 Indirubin**

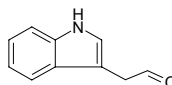
Couroupitine B [479-41-4] $C_{16}H_{10}N_2O_2$ (262.27). mp 356~358°C. **Pharm:** Antineoplastic (mus leukemia L₁₇₁₂, rat W₂₅₆); digestive tract irritant; treatment of chronic granulocytic leukemia (total effective rate > 90%); LD₅₀ (mus, iv) = 1.1~2.0g/kg. **Source:** BAN LAN GEN *Isatis indigotica* (root: content = 0.0058%^[5501]), DA QING YE *Isatis indigotica* (dried leaf: mean content = 0.14%^[5508]), LIAO LAN YE *Polygonum tinctorium* (dried leaf: content = 0.0063%), MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*] (root: content = 0.0036%^[5501]), MU LAN⁽²⁾ *Indigofera tinctoria*. **Ref:** 4, 658, 660, 5501, 5508.

**11025 Indole**

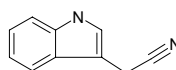
2,3-Benzopyrrole [120-72-9] C_8H_7N (117.15). mp 52°C, bp 253~254°C. **Pharm:** Insect attractant. **Source:** KU BAO *Sauromatum guttatum*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], LING MAO XIANG *Viverra zibetha*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*, *Amorphophallus* sp., *Jasminum* sp., *Citrus* sp. **Ref:** 6, 658.

**11026 Indole-3-acetaldehyde**

[2591-98-2] $C_{10}H_9NO$ (159.19). **Source:** GAN LAN *Brassica oleracea* var. *capitata*. **Ref:** 6.

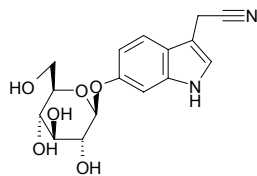
**11027 Indole-3-acetonitrile**

[771-51-7] $C_{10}H_8N_2$ (156.19). mp 36.0~36.5°C. **Source:** FENG XIAN *Impatiens balsamina*. **Ref:** 6, 660.

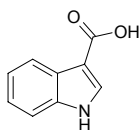


11028 Indole-3-acetonitrile-6-O-β-D-glucopyranoside

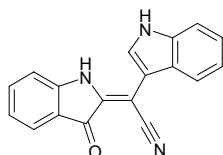
$C_{16}H_{18}N_2O_6$ (334.33). Brown yellow powder, mp 240–242°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 855.

**11029 Indole-3-carboxylic acid**

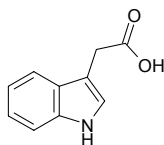
$C_9H_7NO_2$ (161.16). Pharm: Anti-HIV (inhibits HIV replication, H9 Lymphocytic Cells, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) = 14.40 μg/mL, EC_{50} = 2.41 μg/mL, TI = 6.79 μg/mL, control AZT, IC_{50} = 500 μg/mL, EC_{50} = 0.0007 μg/mL, TI = 710000); cytotoxic (hmn cancer lines A549, EC_{50} = 4.6 μg/mL, hmn cancer lines MCF7, EC_{50} = 12.9 μg/mL). Source: NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.

**11030 (E)-2-[(3'-Indole)cyanomethylene]-3-indolinone**

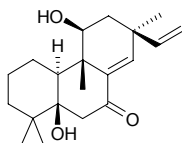
$C_{18}H_{11}N_3O$ (285.31). Purple powder, mp 213–215°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 2465.

**11031 3-Indolylacetic acid**

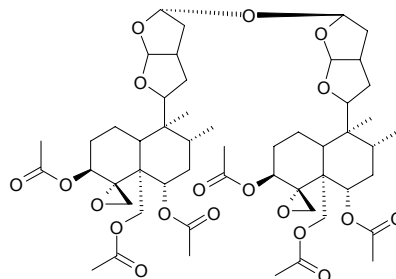
Heteroauxin; Rhizopin [87-51-4] $C_{10}H_9NO_2$ (175.19). Crystals ($CHCl_3$), mp 164–165°C. Pharm: Plant growth hormone. Source: LV SUN PIAN *Sinocalamus oldhami*, PING GUO *Malus pumila*, WU HUA GUO *Ficus carica*, YUAN CAN SHA *Bombyx mori*, occurs in many plants. Ref: 6, 660, 1521.

**11032 Ineketone**

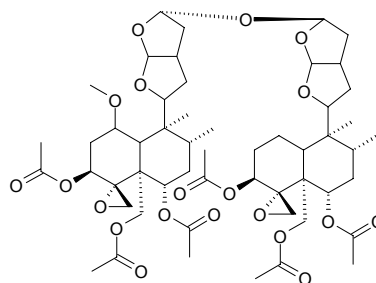
[62574-18-9] $C_{20}H_{30}O_3$ (318.46). Crystals (EtOH–hexane), mp 206–209°C. Pharm: Germination inhibitor. Source: NUO DAO *Oryza sativa* var. *glutinosa*. Ref: 658.

**11033 Inerme A**

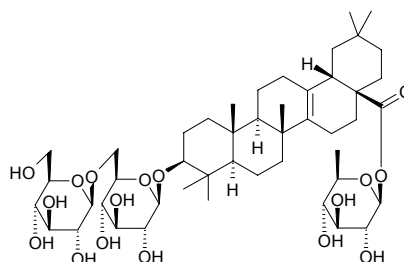
$C_{52}H_{74}O_{19}$ (1003.16). Viscous mass, $[\alpha]_D = -18.6^\circ$ ($CHCl_3$). Source: KU LANG SHU *Clerodendrum inerme* (leaf). Ref: 5261.

**11034 Inerme B**

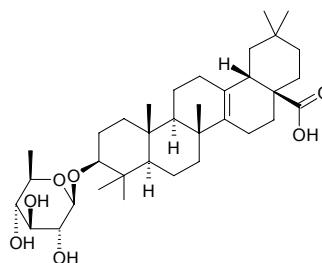
$C_{53}H_{76}O_{20}$ (1033.18). Viscous mass, $[\alpha]_D = -12.6^\circ$ ($CHCl_3$). Source: KU LANG SHU *Clerodendrum inerme* (leaf). Ref: 5261.

**11035 Inermiside I**

6-Deoxy-β-D-glucopyranosyl-[3-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl]-pyrocincholate $C_{47}H_{76}O_{17}$ (913.12). Needles (MeOH:H₂O = 3:2), mp 226–228°C, $[\alpha]_D^{25} = -32.52^\circ$ ($c = 1$, MeOH). Source: WU CI MAO ZHU MU *Mitragyna inermis*. Ref: 2154.

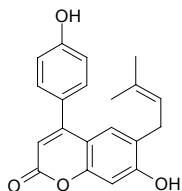
**11036 Inermiside II**

6-Deoxy-β-D-glucopyranosyl-pyrocincholate $C_{35}H_{56}O_7$ (588.83). Needles (MeOH), mp 211–213°C, $[\alpha]_D^{25} = -0.125^\circ$ ($c = 0.001$, MeOH). Source: WU CI MAO ZHU MU *Mitragyna inermis*. Ref: 2154.

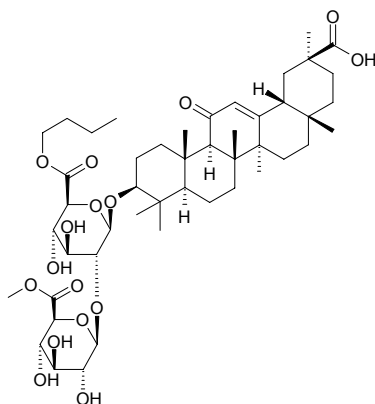


11037 Inflatocoumarin A

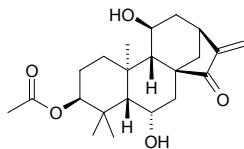
4-(4'-Hydroxy-phenyl)-6-prenyl-7-hydroxy-coumarin [158446-33-4]
 $C_{20}H_{18}O_4$ (322.36). Colorless acicular crystals, mp 232~233°C. [Source](#):
 ZHANG GUO GAN CAO *Glycyrrhiza inflata*. [Ref](#): 302.

**11038 Inflasaponin I**

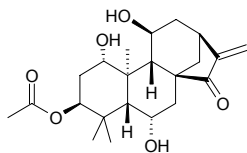
Glycyrrhetic acid-3-O-β-D-6"-n-methyl-glucuronopyranosyl-(1→2)-β-D-6'-n-butyl-glucuronopyranoside $C_{47}H_{72}O_{16}$ (893.09). Colorless amorphous powder, mp 256~258°C. [Source](#): ZHANG GUO GAN CAO *Glycyrrhiza inflata*. [Ref](#): 301.

**11039 Inflexanin A**

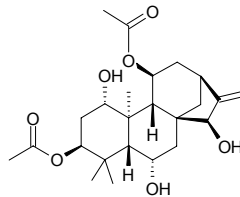
$C_{22}H_{32}O_5$ (376.50). Amorphous powder, $[\alpha]_D^{22} = -108.3^\circ$ ($c = 0.12$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11040 Inflexanin B**

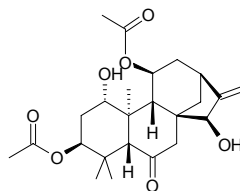
$C_{22}H_{32}O_6$ (392.50). Amorphous powder, $[\alpha]_D^{26} = -46.2^\circ$ ($c = 1.04$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11041 Inflexarabdonin A**

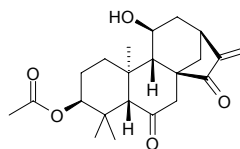
$C_{24}H_{36}O_7$ (436.55). mp 118~120°C, $[\alpha]_D^{27.5} = -5.5^\circ$ ($c = 1.95$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11042 Inflexarabdonin B**

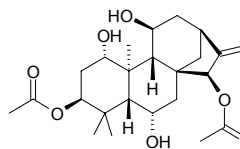
$C_{24}H_{36}O_7$ (434.53). Amorphous powder, $[\alpha]_D^{24} = -16.9^\circ$ ($c = 0.83$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11043 Inflexarabdonin C**

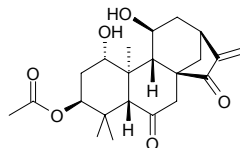
$C_{22}H_{30}O_5$ (374.48). mp 179~181°C, $[\alpha]_D^{24} = -55.2^\circ$ ($c = 0.87$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11044 Inflexarabdonin D**

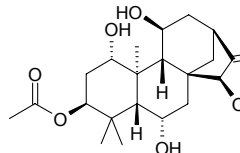
$C_{24}H_{36}O_7$ (436.55). mp 210~212°C, $[\alpha]_D^{24} = -17.1^\circ$ ($c = 0.82$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

**11045 Inflexarabdonin E**

$C_{22}H_{30}O_6$ (390.48). mp 234~237°C, $[\alpha]_D^{25.5} = -42.8^\circ$ ($c = 0.80$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

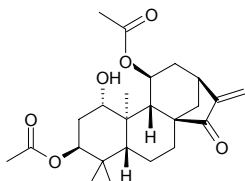
**11046 Inflexarabdonin F**

$C_{22}H_{34}O_6$ (394.51). mp 263~266°C, $[\alpha]_D^{27} = +13.4^\circ$ ($c = 1.10$, MeOH). [Source](#): NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. [Ref](#): 4067.

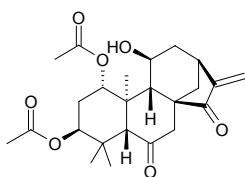


11047 Inflexarabdonin G

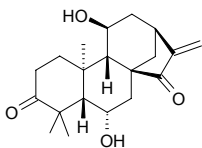
$C_{24}H_{34}O_6$ (418.53). Amorphous powder, $[\alpha]_D^{25.5} = -54.9^\circ$ ($c = 0.97$, MeOH).
 Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*].
 Ref: 4067.

**11048 Inflexarabdonin B**

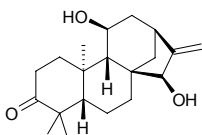
$C_{24}H_{32}O_7$ (432.52). mp 125~128°C, $[\alpha]_D^{24} = -64.2^\circ$ ($c = 0.30$, MeOH). Source:
 NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067.

**11049 Inflexarabdonin I**

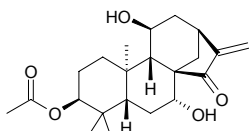
$C_{20}H_{28}O_4$ (332.44). mp 232~234°C, $[\alpha]_D^{23.5} = -106.4^\circ$ ($c = 0.87$, MeOH).
 Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*].
 Ref: 4067.

**11050 Inflexarabdonin J**

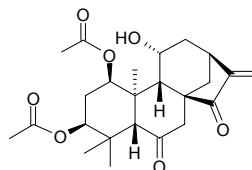
$C_{20}H_{30}O_3$ (318.46). Amorphous powder, $[\alpha]_D^{27} = -63.4^\circ$ ($c = 0.56$, MeOH).
 Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*].
 Ref: 4067.

**11051 Inflexarabdonin K**

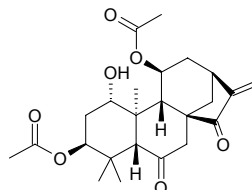
$C_{22}H_{32}O_5$ (376.50). mp 208~210°C, $[\alpha]_D^{26} = -73.7^\circ$ ($c = 0.57$, MeOH). Source:
 NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067.

**11052 Inflexin**

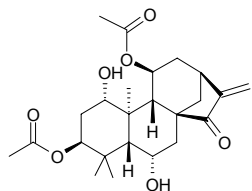
[39388-66-4] $C_{24}H_{32}O_7$ (432.52). Crystals, mp 203~205°C, $[\alpha]_D^{19} = -47^\circ$ ($c = 1$, EtOH). Pharm: Cytotoxic; insect antifeedant. Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 658, 1521.

**11053 Inflexin II**

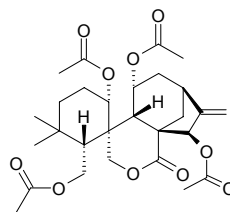
$C_{24}H_{32}O_7$ (432.52). mp 202~204°C, $[\alpha]_D^{29} = -57.1^\circ$ ($c = 1.0$, MeOH). Source:
 LONG SHENG XIANG CHA CAI *Isodon lungshengensis*, NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 690, 4067.

**11054 Inflexinol**

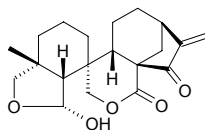
$C_{24}H_{34}O_7$ (434.53). mp 202~204°C, $[\alpha]_D^{29} = -57.1^\circ$ ($c = 1.0$, MeOH). Source:
 NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067.

**11055 Inflexusin**

$C_{28}H_{38}O_{10}$ (534.61). mp 217~219°C, $[\alpha]_D^{25} = -100^\circ$ ($c = 0.08$, MeOH). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067, 4353.

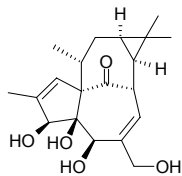
**11056 Inflexusin B**

Macrocalyxofornin C [182266-57-5] $C_{20}H_{26}O_5$ (346.43). Colorless rhomboid crystals (acetone), mp 221~223°C, $[\alpha]_D^{18} = -187.6^\circ$ ($c = 0.5$, MeOH); mp 220~222°C, $[\alpha]_D^6 = -186.7^\circ$ ($c = 0.5$, MeOH). Pharm: Cytotoxic (EAC, *in vitro*); antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*); antifungal (*Candida albicans*). Source: DA E BIAN XING XIANG CHA CAI *Isodon macrocalyx*, NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 491, 4067.

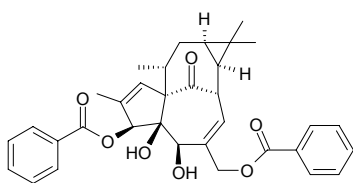


11057 Ingenol

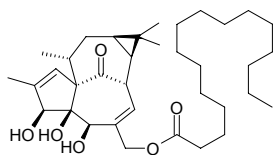
[30220-46-3] C₂₀H₂₈O₅ (348.44). Source: JI CHANG LANG DU *Euphorbia esula*. Ref: 658.

**11058 Ingenol-3,20-dibenzoate**

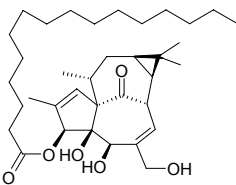
C₃₄H₃₆O₇ (556.66). [α]_D²⁸ = +268° (c = 0.0026, ethanol). Pharm: Antineoplastic (mus P₃₈₈, 130–360 μg/kg). Source: JI CHANG LANG DU *Euphorbia esula*. Ref: 661.

**11059 Ingenol-20-hexadecanoate**

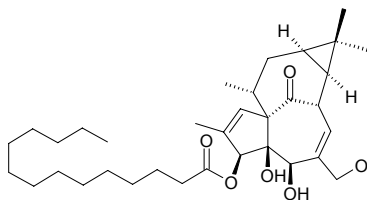
C₃₆H₅₈O₆ (586.86). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 660.

**11060 Ingenol-3-hexadecanoate**

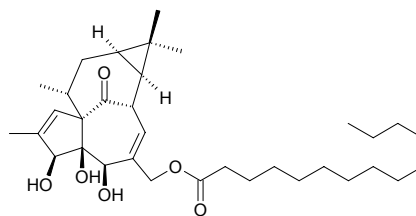
C₃₆H₅₈O₆ (586.86). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 660.

**11061 Ingenol-3-myristinate**

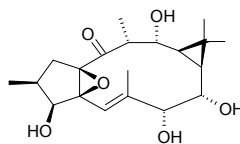
C₃₄H₅₄O₆ (558.81). Yellowish colloid, [α]_D²⁰ = +22° (c = 0.2, MeOH). Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4811.

**11062 Ingenol-20-myristinate**

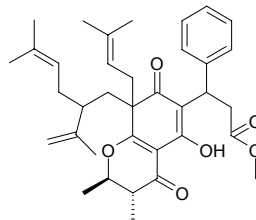
C₃₄H₅₄O₆ (558.81). Yellowish colloid, [α]_D²⁰ = -14° (c = 0.1, MeOH). Source: DA GUO DA JI *Euphorbia wallichii* (root). Ref: 4811.

**11063 Ingol**

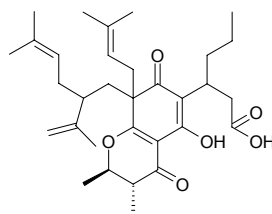
C₂₀H₃₀O₆ (366.46). Source: JU DA JI *Euphorbia ingens*, *Euphorbia kamerunica*. Ref: 1521.

**11064 Inocalophyllin A methyl ester**

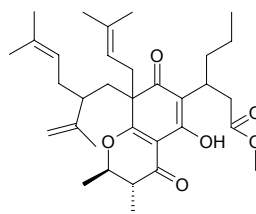
C₃₆H₄₆O₆ (574.76). Amorphous solid, [α]_D²⁵ = -122° (c = 0.05, CH₂Cl₂). Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 4354.

**11065 Inocalophyllin B**

C₃₂H₄₆O₆ (526.72). Amorphous solid, [α]_D²⁵ = -95° (c = 0.05, CH₂Cl₂). Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 4354.

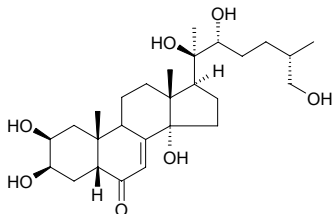
**11066 Inocalophyllin B methyl ester**

C₃₃H₄₈O₆ (540.75). Amorphous solid, [α]_D²⁵ = -138° (c = 0.05, CH₂Cl₂). Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 4354.

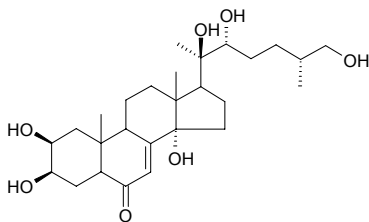


11067 Inokosterone

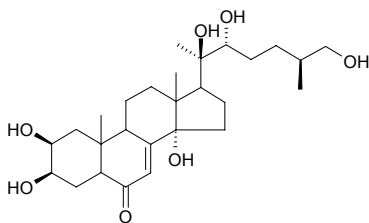
[15130-85-5] $C_{27}H_{44}O_7$ (480.65). Crystals (MeOH–EtOAc), mp 255°C (dec). **Pharm:** Hypoglycemic (rat, hyperglycemia due to glucagon, 0.1–10mg/kg iv or 1–100mg/kg orl); insect ecdysone (molting hormone); low toxin. **Source:** NIU XI *Achyranthes bidentata*, RI BEN NIU XI *Achyranthes fauriei* (the compound was isolated from the plant by Tsunematsu Takemoto et al. in 1967)^[5505], SANG YE *Morus alba*, DONG FANG GOU JI *Woodwardia orientalis*. **Ref:** 2, 658, 5501, 5505.

**11068 (25R)-Inokosterone**

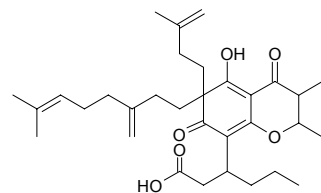
$C_{27}H_{44}O_7$ (480.65). White needles, mp 242–244°C, $[\alpha]_D^{20} = +78.3^\circ$ ($c = 0.007$, MeOH). **Source:** NIU XI *Achyranthes bidentata*. **Ref:** 4854.

**11069 (25S)-Inokosterone**

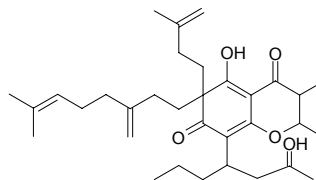
$C_{27}H_{44}O_7$ (480.65). White needles, mp 242–244°C, $[\alpha]_D^{20} = +90.0^\circ$ ($c = 0.006$, MeOH). **Source:** NIU XI *Achyranthes bidentata*. **Ref:** 4854.

**11070 Inophylloic acid**

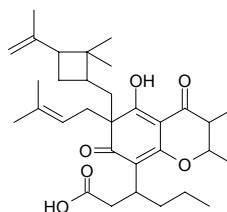
$C_{32}H_{46}O_6$ (526.72). **Source:** HAI TANG GUO *Calophyllum inophyllum*. **Ref:** 1521.

**11071 Inophylloic acid**

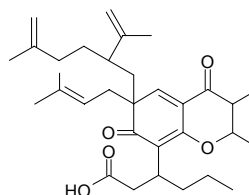
$C_{34}H_{50}O_4$ (522.78). **Pharm:** Cytotoxic (KB, $IC_{50} = 9.7\mu\text{g/mL}$); antibacterial (*Staphylococcus aureus*, 20 $\mu\text{g/disk}$, DIZ = 9.0mm; *Escherichia coli*, 20 $\mu\text{g/disk}$, inactive; *Vibrio anguillarum*, 20 $\mu\text{g/disk}$, inactive); antifungal inactive (*Candida tropicalis*, 20 $\mu\text{g/disk}$). **Source:** HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). **Ref:** 3866.

**11072 Inophylloic acid A₁**

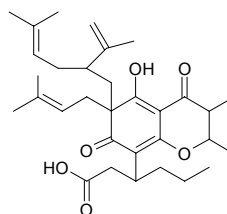
$C_{32}H_{46}O_6$ (526.72). **Source:** HAI TANG GUO *Calophyllum inophyllum*. **Ref:** 660.

**11073 Inophylloic acid A₂**

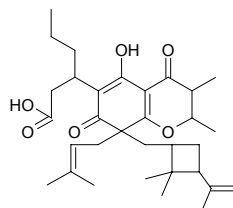
$C_{32}H_{46}O_5$ (510.72). **Source:** HAI TANG GUO *Calophyllum inophyllum*. **Ref:** 660.

**11074 Inophylloic acid A₃**

$C_{32}H_{46}O_6$ (526.72). **Source:** HAI TANG GUO *Calophyllum inophyllum*. **Ref:** 660.

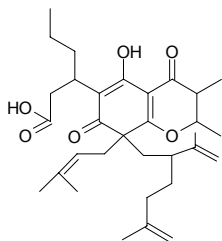
**11075 Inophylloic acid B₁**

$C_{32}H_{46}O_6$ (526.72). **Source:** HAI TANG GUO *Calophyllum inophyllum*. **Ref:** 660.

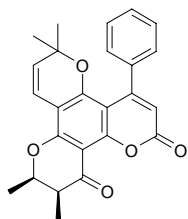


11076 Inophylloic acid B₂

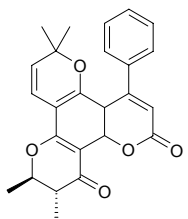
C₃₂H₄₆O₆ (526.72). Source: HAI TANG GUO *Calophyllum inophyllum*.
Ref: 660.

**11077 Inophyllolide**

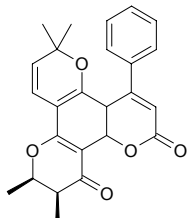
C₂₅H₂₂O₅ (402.45). mp (±) 186~188°C, (+)10, 11-*trans*-: crystals (benzene-hexane or ethyl acetate), mp 188~191°C, [α]_D²⁰ = +13° (c = 1.1, chloroform); (+)10, 11-*cis*: crystals (benzene-hexane), mp 149~151°C, [α]_D²⁰ = +70° (c = 1.2, chloroform). Pharm: Anticonvulsant; anti-inflammatory; fish toxin. Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 661.

**11078 Inophyllum C**

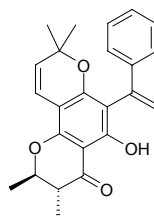
C₂₅H₂₄O₅ (404.47). Pharm: Antibacterial (*Staphylococcus aureus*, 20μg/disk, DIZ = 10.0mm; *Escherichia coli*, 20μg/disk, inactive; *Vibrio anguillarum*, 20μg/disk, inactive); antifungal inactive (*Candida tropicalis*, 20μg/disk). Source: HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). Ref: 3866.

**11079 Inophyllum E**

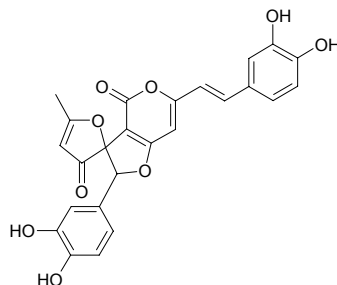
C₂₅H₂₄O₅ (404.47). Pharm: Cytotoxic inactive (KB, IC₅₀ = 36.1μg/mL); antibacterial (*Staphylococcus aureus*, 20μg/disk, DIZ = 13.0mm; *Escherichia coli*, 20μg/disk, inactive; *Vibrio anguillarum*, 20μg/disk, inactive); antifungal inactive (*Candida tropicalis*, 20μg/disk). Source: HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut). Ref: 3866.

**11080 Inophynone**

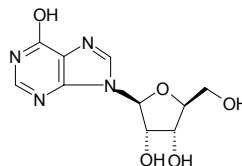
C₂₄H₂₄O₄ (376.46). Fine crystals, mp 115°C. Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 1878.

**11081 Inoscavin A**

C₂₅H₁₈O₉ (462.42). Pharm: Cytotoxic (*in vitro*, A549, IC₅₀ > 0.108μmol/L; BGC823, IC₅₀ > 0.108μmol/L; MCF7, IC₅₀ > 0.108μmol/L; Bel7402, IC₅₀ = 0.088μmol/L; Ketr3, IC₅₀ > 0.108μmol/L; HCT8, IC₅₀ > 0.108μmol/L; control Topotecan, A549, IC₅₀ = 0.0032μmol/L; BGC823, IC₅₀ = 0.0043μmol/L; MCF7, IC₅₀ = 0.0018μmol/L; Bel7402, IC₅₀ = 0.0012μmol/L; Ketr3, IC₅₀ = 0.0049μmol/L; HCT8, IC₅₀ = 0.0015μmol/L). Source: SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0017%dw). Ref: 4747.

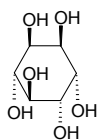
**11082 Inosine**

Aminosin; Inosine; Ribonosine [58-63-9] C₁₀H₁₂N₄O₅ (268.23). mp 215°C^[6], [α]_D¹⁸ = -49.2° (c = 0.9, H₂O)^[5507]. Pharm: Normal component in human body (participator of metabolism of nucleic acid, energy metabolism and protein synthesis)^[5507]. Source: DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.067%)^[5512], GOU QI YE *Lycium chinense*^[6], REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.010%)^[5512], TIAN CAI *Beta vulgaris*^[5507]. Ref: 6, 5507, 5512.

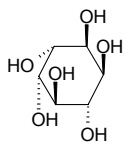


11083 Inositol

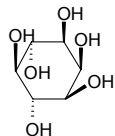
Chiro-Inositol C₆H₁₂O₆ (180.16). mp 247°C. **Pharm:** Growth factor for animals and microorganisms; antihypercholesterolemic, used in treatment of arteriosclerosis and hyperlipidemia; promotes lipometabolism (treatment of hepatic adipose infiltration). **Source:** AI YE *Artemisia argyi*, BAI JIANG *Patrinia villosa*, BEI MEI E ZHANG QIU *Liriodendron tulipifera*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG CHUN TENG *Hedera nepalensis* var. *sinensis*, DI JIN CAO *Euphorbia humifusa*, FENG RU *Apis cerana*, FENG XIANG JI SHENG *Viscum articulatum*, JIN YIN HUA *Lonicera japonica*, MU TONG *Akebia quinata*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, NIU SHE TOU *Sonchus arvensis*, SHAN FAN GEN *Symplocos caudata*, WU TOU *Aconitum carmichaeli*, YANG YI *Capra hircus*; *Ovis aries*, YU BAI FU *Typhonium giganteum*, YU MI XU *Zea mays*. **Ref:** 2, 6, 658, 660, 2535.

**11084 Inositol b**

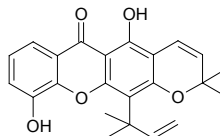
C₆H₁₂O₆ (180.16). mp 238°C. **Source:** AI YE *Artemisia argyi*, WU TOU *Aconitum carmichaeli*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG CHUN TENG *Hedera nepalensis* var. *sinensis*, DI JIN CAO *Euphorbia humifusa*, FENG RU *Apis cerana*, FENG XIANG JI SHENG *Viscum articulatum*, JIN YIN HUA *Lonicera japonica*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, NIU SHE TOU *Sonchus arvensis*, YANG YI *Capra hircus*; *Ovis aries*, YU BAI FU *Typhonium giganteum*, YU MI XU *Zea mays*. **Ref:** 2, 6, 660.

**11085 Inositol c**

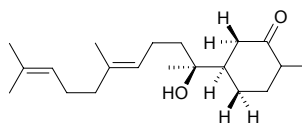
Myoinositol [87-89-8] C₆H₁₂O₆ (180.16). mp 218–219°C. **Source:** AI YE *Artemisia argyi*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG CHUN TENG *Hedera nepalensis* var. *sinensis*, DI JIN HETEROPOGON *contortus*, DI JIN CAO *Euphorbia humifusa*, FENG RU *Apis cerana*, FENG XIANG JI SHENG *Viscum articulatum*, JIN YIN HUA *Lonicera japonica*, LI MU *Lyonia ovalifolia*, MAO XU CAO *Clerodendranthus spicatus*, NAN ZHU ZI *Vaccinium bracteatum*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, NIU SHE TOU *Sonchus arvensis*, SANG YE *Morus alba*, WU TOU *Aconitum carmichaeli*, YANG MEI *Myrica rubra*, YANG YI *Capra hircus*; *Ovis aries*, YING SU KE *Papaver somniferum*, YU BAI FU *Typhonium giganteum*, YU MI XU *Zea mays*, occurs in many plants. **Ref:** 2, 6, 660.

**11086 Inoxanthone**

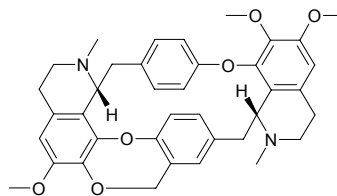
Blancoxanthone C₂₃H₂₂O₅ (378.43). Yellow needles (cyclohexane–EtOAc), mp 217°C; yellowish powder. **Pharm:** Antibacterial inactive (*Staphylococcus aureus*, 20µg/disk; *Escherichia coli*, 20µg/disk; *Vibrio anguillarum*, 20µg/disk)^[3866]; antifungal inactive (*Candida tropicalis*, 20µg/disk)^[3866]; Antivirus (hmn coronavirus strain 229E (HCoV-229E), 3µg/mL)^[4441]. **Source:** HAI TANG GUO *Calophyllum inophyllum* (root cortex and nut), *Calophyllum blancoi* (root). **Ref:** 3866, 4441.

**11087 Insecticidea diterpene**

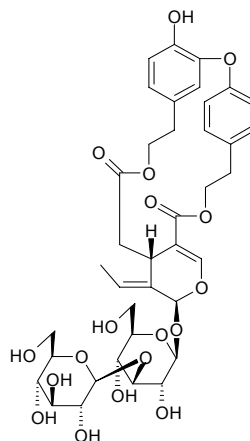
C₂₀H₃₄O₂ (306.49). **Source:** XIAN YE BA DOU *Croton linearis*. **Ref:** 4552.

**11088 Insularine**

[549-07-5] C₃₈H₄₀N₂O₆ (620.75). mp 160°C. **Source:** QIAN JIN TENG *Stephania japonica*. **Ref:** 6.

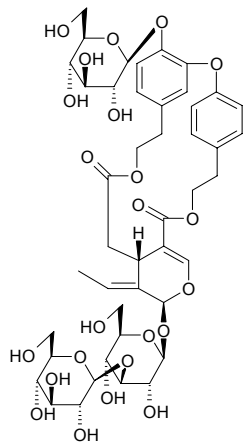
**11089 Insularoside-3'-O-β-D-glucoside**

Insularoside-3'-O-β-D-glucoside C₃₈H₄₆O₁₈ (790.78). Amorphous powder (CH₃OH). **Source:** KU LI MU YE *Fraxinus insularis*. **Ref:** 804.

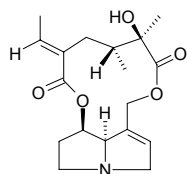


11090 Insularoside-6''-O-β-glucosi-(3'→1)-β-D-glucoside

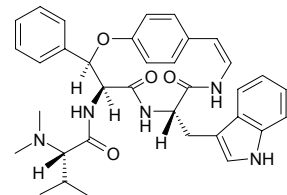
C₄₄H₅₆O₂₃ (952.92). Amorphous powder (CH₃OH). Source: KU LI MU YE *Fraxinus insularis*. Ref: 804.

**11091 Integerrimine**

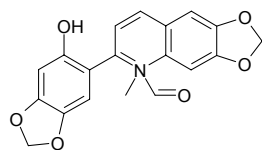
Squalidine [480-79-5] C₁₈H₂₅NO₅ (335.40). mp 168~170°C, 172.5°C. Pharm: Antineoplastic (transplant tumor of 6 animals); antihypertensive (dog, iv, 1~3mg/kg, anesthetic cat); antispasmodic (caused by histamine, acetylcholine and BaCl₂); hepatotoxic; inhibits intestinal movement (rbt, *in vitro*); muscle relaxant; mutagen (drosophila experiments); promotes uterine contraction (gpg); LD₅₀ (mus, iv) = 75mg/kg. Source: BA XI QIAN LI GUANG *Senecio brasiliensis*, DUAN HUA ZHU SHI DOU *Crotalaria breviflora*, GUANG YE ZHU SHI DOU *Crotalaria incana*, MI SAN QIAN LI GUANG *Senecio faberi* (whole herb: mean content = 10.2%)^[5508], NIU JIN QIAN LI GUANG *Senecio squalidus*, QUAN YUAN QIAN LI GUANG *Senecio integerrimus*, YA KE BEI QIAN LI GUANG *Senecio alpinus*. Ref: 4, 658, 5508.

**11092 Integerrine**

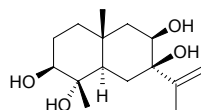
[18397-13-2] C₃₅H₃₉N₅O₄ (593.73). Needles (CHCl₃-petroleum ether), mp 258°C. Pharm: Antibacterial (gram-positive bacteria and lower fungi). Source: QUAN YUAN YE MEI ZHOU CHA *Ceanothus integerrimus*. Ref: 658.

**11093 Integriamide**

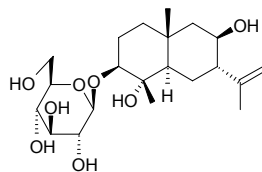
C₁₉H₁₅NO₆ (353.33). Source: RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 660.

**11094 Integrifonol A**

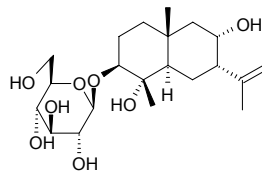
C₁₅H₂₆O₄ (270.37). Powder, [α]_D¹⁹ = +43.0° (c = 0.5, MeOH). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts). Ref: 3924.

**11095 Integrifoside A**

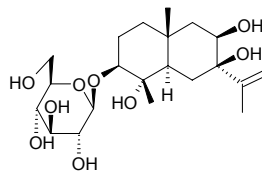
C₂₁H₃₆O₈ (416.52). Powder, [α]_D¹⁹ = -12.7° (c = 5.9, MeOH). Pharm: Antiallergic (hyaluronidase inhibitor (activated hyaluronidase by compound 48/80 (Kakegawa et al., 1985), 0.2mmol/L, InRt = 3%, control DSCG). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts). Ref: 3924.

**11096 Integrifoside B**

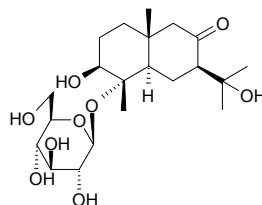
C₂₁H₃₆O₈ (416.52). Powder, [α]_D¹⁹ = -16.0° (c = 1.9, MeOH). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts). Ref: 3924.

**11097 Integrifoside C**

C₂₁H₃₆O₉ (432.52). Powder, [α]_D¹⁹ = 0° (c = 1.0, MeOH). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts). Ref: 3924.

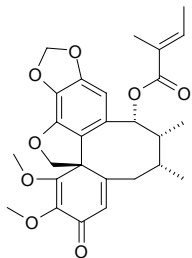
**11098 Integrifoside D**

C₂₁H₃₆O₉ (432.52). Powder, [α]_D¹⁹ = +39.4° (c = 0.8, MeOH). Source: QUAN YUAN YE TE SA JU *Tessaria integrifolia* (aerial parts). Ref: 3924.

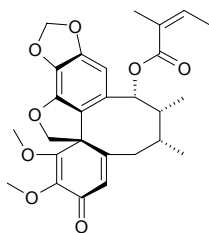


11099 Interiorin A

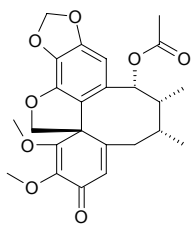
$C_{27}H_{30}O_8$ (482.54). Source: NEI NAN WU WEI ZI *Kadsura interior*. Ref: 2436.

**11100 Interiorin B**

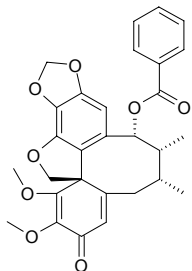
[133442-66-7] $C_{27}H_{30}O_8$ (482.54). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(13.5 \pm 0.6)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%)^[4644]. Source: NEI NAN WU WEI ZI *Kadsura interior* (stem: yield = 0.0155%dw). Ref: 2436, 4644.

**11101 Interiorin C**

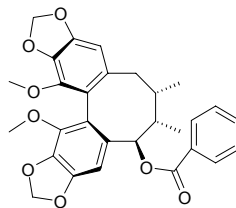
[133360-39-1] $C_{24}H_{26}O_8$ (442.47). Source: NEI NAN WU WEI ZI *Kadsura interior*. Ref: 2436.

**11102 Interiorin D**

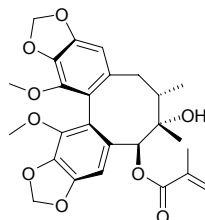
[133360-40-4] $C_{29}H_{28}O_8$ (504.54). Source: NEI NAN WU WEI ZI *Kadsura interior*. Ref: 2436.

**11103 Interiotherin A**

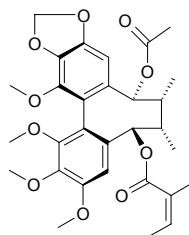
[181701-06-4] $C_{29}H_{28}O_8$ (504.54). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(18.3 \pm 1.0)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%)^[4644]. Source: NEI NAN WU WEI ZI *Kadsura interior* (stem), NEI NAN WU WEI ZI *Kadsura interior*. Ref: 2436, 4644.

**11104 Interiotherin B**

[181701-07-5] $C_{27}H_{30}O_9$ (498.53). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(11.6 \pm 0.4)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%)^[4644]. Source: NEI NAN WU WEI ZI *Kadsura interior* (stem), NEI NAN WU WEI ZI *Kadsura interior*. Ref: 2436, 4644.

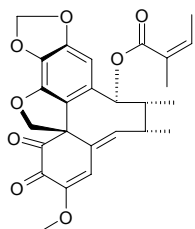
**11105 Interiotherin C**

$C_{30}H_{36}O_{10}$ (556.62). Colorless needles (MeOH), mp 179~181°C, $[\alpha]_D = +127.66^\circ$ ($c = 1.175$, $CHCl_3$). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(16.0 \pm 0.6)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%). Source: NEI NAN WU WEI ZI *Kadsura interior* (stem: yield = 0.0062%dw). Ref: 4644.

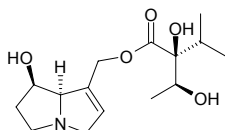


11106 Interiotherin D

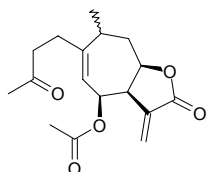
$C_{26}H_{26}O_8$ (466.49). Yellow prisms (MeOH), mp 148–151°C, $[\alpha]_D^{20} = -271.19^\circ$ ($c = 1.180$, $CHCl_3$). **Pharm:** Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(11.5 \pm 0.5)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%). **Source:** NEI NAN WU WEI ZI *Kadsura interior* (stem: yield = 0.00083%dw). **Ref:** 4644.

**11107 Intermedine**

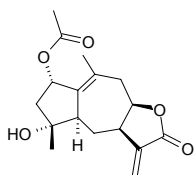
$C_{15}H_{25}NO_5$ (299.37). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2193.

**11108 Inuchinenolide A**

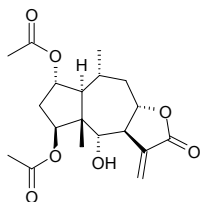
$C_{17}H_{22}O_5$ (306.36). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 660.

**11109 Inuchinenolide B**

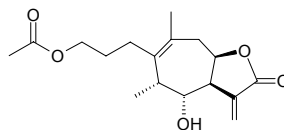
$C_{17}H_{22}O_5$ (306.36). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 660.

**11110 Inuchinenolide C**

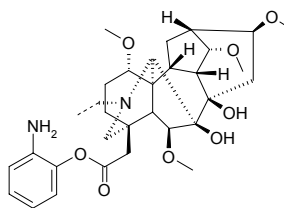
$C_{19}H_{26}O_7$ (366.41). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 660.

**11111 Inulicin**

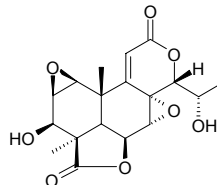
[33627-41-7] $C_{17}H_{24}O_5$ (308.38). mp 125.5–126.5°C, $[\alpha]_D = +90^\circ$. **Pharm:** CNS stimulant; intestinal smooth muscle stimulant. **Source:** XUAN FU HUA *Inula britannica*, XIAN YE XUAN FU HUA *Inula linariaefolia*, JIN FEI CAO *Inula japonica*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. **Ref:** 6, 658, 660, 1521.

**11112 Inuline**

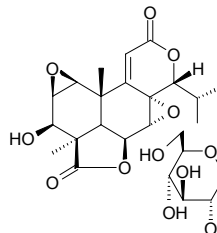
$C_{32}H_{46}N_2O_8$ (586.73). **Source:** GAN WAN WU TOU *Aconitum finetianum*. **Ref:** 660.

**11113 Inumakilactone A**

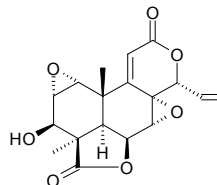
[19885-83-7] $C_{18}H_{20}O_8$ (364.36). mp 251–253°C (dec), $[\alpha]_D = 0^\circ$. **Pharm:** Plant growth inhibitor. **Source:** LUO HAN SONG SHI *Podocarpus macrophyllus*. **Ref:** 6, 1521.

**11114 Inumakilactone A glucoside**

$C_{24}H_{30}O_{13}$ (526.50). **Pharm:** Plant growth inhibitor. **Source:** LUO HAN SONG SHI *Podocarpus macrophyllus*. **Ref:** 6, 658.

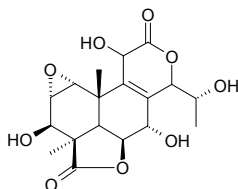
**11115 Inumakilactone B**

[31323-76-9] $C_{18}H_{18}O_7$ (346.34). mp 295°C (dec). **Pharm:** Plant growth inhibitor. **Source:** LUO HAN SONG SHI *Podocarpus macrophyllus*. **Ref:** 6.

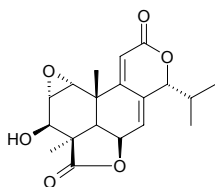


11116 Inumakilactone C

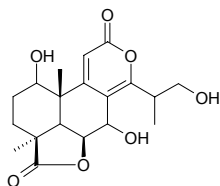
$C_{18}H_{22}O_9$ (382.37). mp 263~265°C (dec). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 6.

**11117 Inumakilactone D**

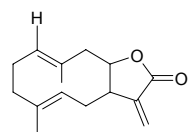
$C_{19}H_{22}O_6$ (346.38). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 660.

**11118 Inumakilactone E**

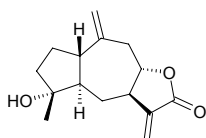
[37886-71-8] $C_{19}H_{24}O_7$ (364.40). mp 220~225°C. Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 6, 660, 1521.

**11119 Inunolide**

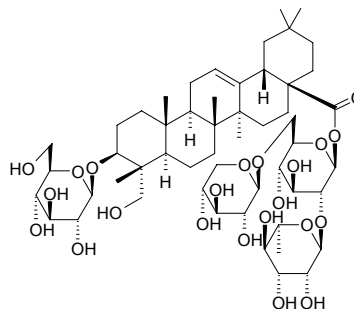
$C_{15}H_{20}O_2$ (232.31). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 6.

**11120 Inuviscolide**

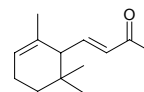
$C_{15}H_{20}O_3$ (248.32). Source: JIN FEI CAO *Inula japonica*. Ref: 1521, 5422.

**11121 Ioniceroside C**

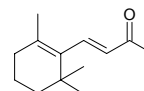
3-*O*- β -*D*-Glucopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl ester $C_{53}H_{86}O_{22}$ (1075.26). Pharm: Anti-inflammatory (*in vivo*, mouse ear edema induced by croton oil, 100mg/kg, orl, InRt = 31%). Source: JIN YIN HUA *Lonicera japonica* (aerial parts). Ref: 4327.

**11122 α -Ionone**

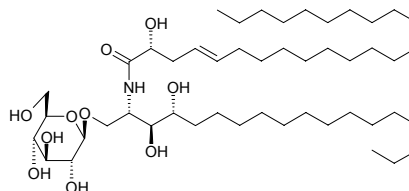
[24190-29-2] $C_{13}H_{20}O$ (192.30). bp (\pm) 146.5~147.5°C/28mmHg. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 2.

**11123 β -Ionone**

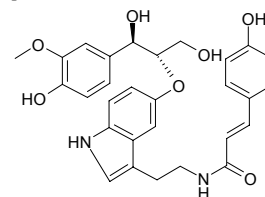
[14901-07-6] $C_{13}H_{20}O$ (192.30). bp 150~151°C/24mmHg. Source: GOU QI ZI *Lycium chinense*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], QUN DAI CAI *Undaria pinnatifida* (dried thallus: yield = 0.00012%)^[4602], XING REN *Prunus armeniaca*. Ref: 2, 660, 4602.

**11124 Iotrroidoside B**

$C_{48}H_{93}NO_{10}$ (844.28). $[\alpha]_D^{28} = +12.0^\circ$ ($c = 0.15$, pyridine). Source: XIAO BANG XIYOU QIOU HAI MIAN *Istrochota baculifera*. Ref: 4391.

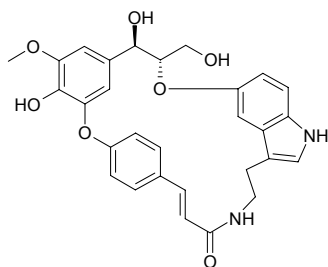
**11125 Ipobscurine B**

N-[2-[5-[2-[(4-Hydroxy-3-methoxyphenyl)-2-hydroxy-1-hydroxymethyl]ethoxy]indol-3-yl]ethyl]-4-hydroxycinnamoyl amide $C_{29}H_{30}N_2O_7$ (518.57). Yellow solid, $[\alpha]_D^{20} = -35^\circ$ ($c = 0.28$, MeOH). Source: XIAO XIN YE SHU *Ipomoea obscura*. Ref: 2039.

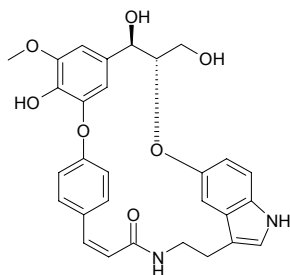


11126 Ipobscurine C

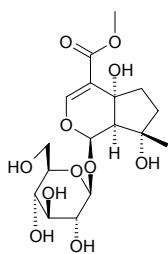
$C_{29}H_{28}N_2O_7$ (516.56). White crystals, mp 193–195°C, $[\alpha]_D^{20} = -44^\circ$ ($c = 0.16$, $CHCl_3$). Source: XIAO XIN YE SHU *Ipomoea obscura*. Ref: 2039.

**11127 Ipobscurine D**

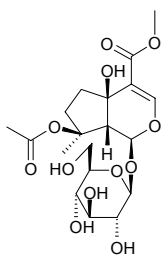
$C_{29}H_{28}N_2O_7$ (516.56). Yellow solid, mp 245–247°C. Source: XIAO XIN YE SHU *Ipomoea obscura*. Ref: 2039.

**11128 Ipolamiide**

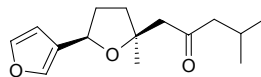
[27934-98-1] $C_{17}H_{26}O_{11}$ (406.39). Crystals (Me_2CO aq.), mp 144–145°C, $[\alpha]_D^{13} = -136^\circ$ ($c = 0.5$, dioxan). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*, BAO GAI CAO *Lamium amplexicaule*, ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 6, 1521, 5009.

**11129 Ipolamiidoside**

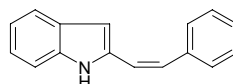
$C_{19}H_{28}O_{12}$ (448.23). $[\alpha]_D^{28} = -70.6^\circ$ ($c = 0.15$, MeOH). Pharm: Antiviral (anti-HSV-1); cytotoxic inactive (vero cells); COX-2 inhibitor inactive. Source: HUA YE JIA DU JUAN *Barleria lupulina* (flower). Ref: 5456.

**11130 Ipomeamarone**

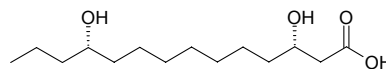
[494-23-5] $C_{15}H_{22}O_3$ (250.34). Pharm: Antifungal; inhibits cytochrome b5 reductase (rat, *in vitro*, inhibits electron-transfer and oxidative phosphorylation); toxin. Source: GAN SHU *Ipomoea batatas* [Syn. *Convolvulus batatas*]. Ref: 658.

**11131 Ipolamine A**

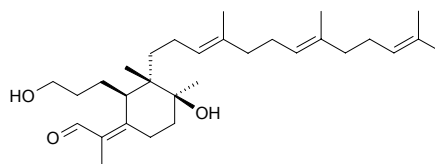
$C_{16}H_{13}N$ (219.29). White needles (cyclohexane–acetone), mp 110°C. Source: GAN SHU *Ipomoea batatas* [Syn. *Convolvulus batatas*] (root). Ref: 4852.

**11132 Ipurolic acid**

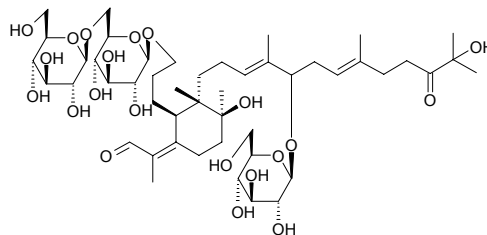
$C_{14}H_{28}O_4$ (260.38). Source: FEI E TENG *Porana racemosa*. Ref: 660.

**11133 Iridal**

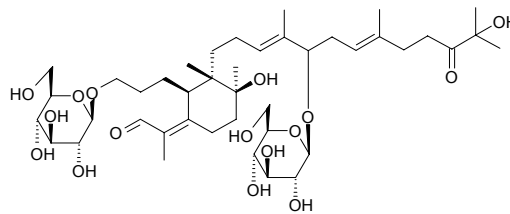
21-Desoxy-iridogermainal $C_{30}H_{50}O_3$ (458.73). Glassy solid, $[\alpha]_D^{20} = +34.4^\circ$ ($c = 0.9$, CH_2Cl_2). Pharm: Antimalarial (hmn malaria strain, *in vitro* $IC_{50} = 1.8$ – 26.0 mg/mL, *in vivo* $ED_{50} = 85$ mg/(kg·d) ip; MIC > 50 μg/mL). Source: DE GUO YUAN WEI *Iris germanica*. Ref: 2033.

**11134 Iridalglycoside 5a**

22-Oxo-23-hydroxyiridal-3- β -D-glucopyranosyl-(1→6)- β -D-glucopyranoside]-16- β -D-glucopyranoside $C_{48}H_{80}O_{21}$ (993.16). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

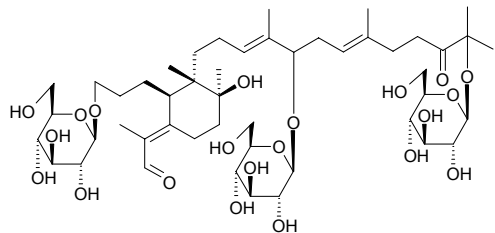
**11135 Iridalglycoside 5b**

22-Oxo-23-hydroxy-iridal-3,16-di- β -D-glucopyranoside $C_{42}H_{70}O_{16}$ (831.02). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

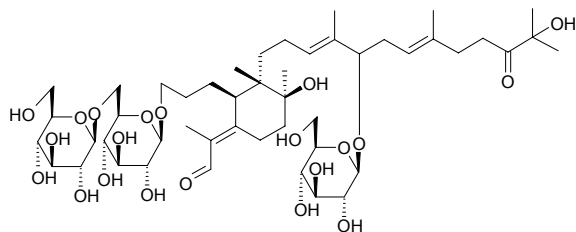


11136 Iridalglycoside 6a

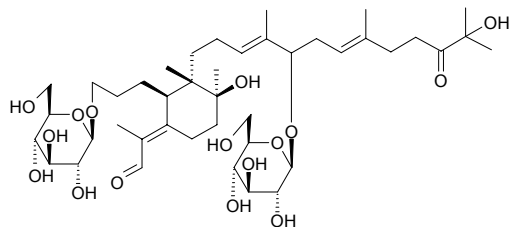
22-Oxo-isoiridal-3,16,23-tri- β -D-glucopyranoside C₄₈H₈₀O₂₁ (993.16). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

**11137 Iridalglycoside 6b**

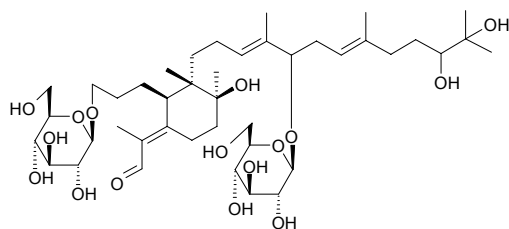
C₄₈H₈₀O₂₁ (993.16). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

**11138 Iridalglycoside 6c**

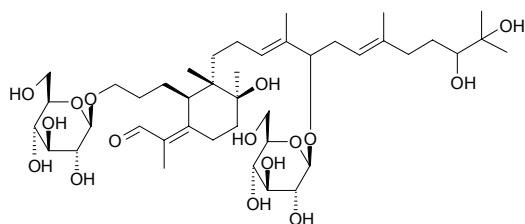
22-Oxo-23-hydroxy-isoiridal-3,16-di- β -D-glucopyranoside C₄₂H₇₀O₁₆ (831.03). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

**11139 Iridalglycoside 7**

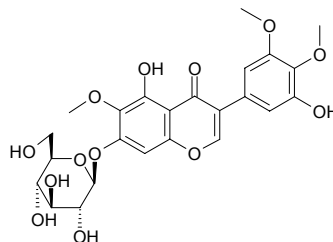
22,23-Dihydroxy-isoiridal-3,16-di- β -D-glucopyranoside C₄₂H₇₂O₁₆ (833.03). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

**11140 Iridalglycoside 8**

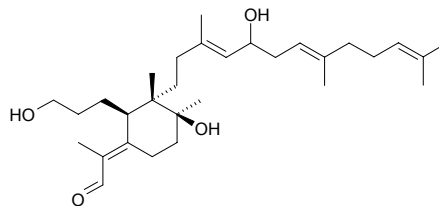
22,23-Dihydroxy-iridal-3,16-di- β -D-glucopyranoside C₄₂H₇₂O₁₆ (833.03). Source: JIA YUAN WEI *Iris spuria*. Ref: 1951.

**11141 Iridin**

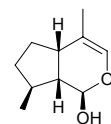
[491-74-7] C₂₄H₂₆O₁₃ (522.47). mp 208°C. Pharm: Diuretic (rbt, sc, 25mg/kg); improves osmosis of capillary blood vessels (inhibits adenosine diphosphate transfer to adenosine triphosphate); LD (rbt, sc) = 8~10g/kg. Source: A ER JI LI YA YUAN WEI *Iris unguicularis*, BAI HUA SHE GAN *Iris dichotoma*, CHANG BING YUAN BAI *Juniperus macropoda*, DE GUO YUAN WEI *Iris germanica* (rhizome), RI BEN YUAN WEI *Iris komonoensis*, SHE GAN *Belamcanda chinensis* (dried rhizome: content scope of 6 origins = 0.36%~1.31%, mean content = 0.83%^[5508]), XI OU YUAN WEI *Iris florentina*, XI OU YUAN WEI *Iris florentina*. Ref: 6, 658, 4128, 4223, 5501, 5508.

**11142 Iridobelamal A**

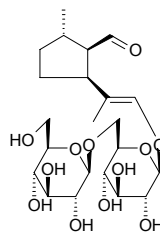
C₃₀H₅₀O₄ (474.73). Colorless viscous oil, [α]_D = 51° (c = 0.08, EtOH). Source: SHE GAN *Belamcanda chinensis*. Ref: 767.

**11143 (+)-Iridodial**

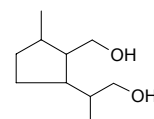
[550-45-8] C₁₀H₁₆O₂ (168.24). Pharm: Insect repellent. Source: *Myoporium* sp. Ref: 658.

**11144 Iridodial- β -D-gentiobioside**

C₂₂H₃₆O₁₂ (492.53). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.

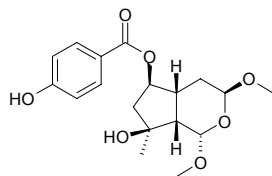
**11145 Iridodiol**

C₁₀H₂₀O₂ (172.27). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.

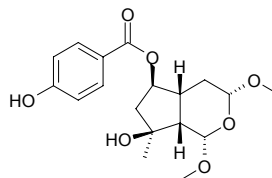


11146 Iridoid CPB-53-710-1

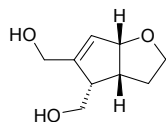
$C_{18}H_{24}O_7$ (352.39). Colorless amorphous solid, $[\alpha]_D^{25} = -110.2^\circ$ ($c = 0.033$, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 17.4\mu\text{g/mL}$, control *L*-NMMA, $IC_{50} = 27.4\mu\text{g/mL}$). **Source:** HE SE ZHONG HUA SHU *Tabebuia avellanadae* (inner bark). **Ref:** 4473.

**11147 Iridoid CPB-53-710-2**

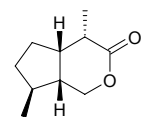
$C_{18}H_{24}O_7$ (352.39). Colorless amorphous solid, $[\alpha]_D^{25} = -56.4^\circ$ ($c = 0.035$, MeOH). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 34.6\mu\text{g/mL}$, control *L*-NMMA, $IC_{50} = 27.4\mu\text{g/mL}$). **Source:** HE SE ZHONG HUA SHU *Tabebuia avellanadae* (inner bark). **Ref:** 4473.

**11148 Iridoid-related aglycone**

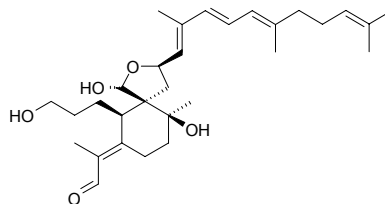
$C_9H_{14}O_3$ (170.21). Colorless oil, $[\alpha]_D^{22} = -6^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 58.5\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} > 100\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} = 40.6\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002\mu\text{g/mL}$); cytotoxic (L6 cells, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075\mu\text{g/mL}$). **Source:** LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). **Ref:** 5251.

**11149 Iridomyrmecin**

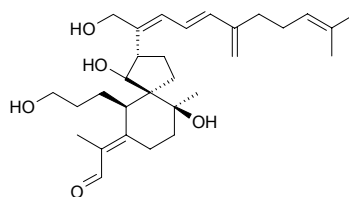
[485-43-8] $C_{10}H_{16}O_2$ (168.24). mp 60–61°C. **Pharm:** Antibacterial; insecticidal. **Source:** MU TIAN LIAO *Actinidia polygama*. **Ref:** 6, 658, 1521.

**11150 Iridotectoral A**

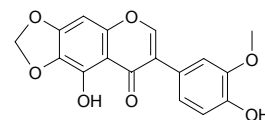
$C_{30}H_{46}O_5$ (486.70). White glassy substance. **Source:** YUAN WEI *Iris tectorum*. **Ref:** 767.

**11151 Iridotectoral B**

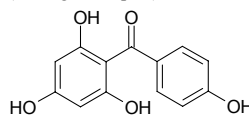
$C_{30}H_{46}O_5$ (486.70). White glassy substance, $[\alpha]_D = 67^\circ$ ($c = 0.12$, EtOH). **Source:** YUAN WEI *Iris tectorum*. **Ref:** 767.

**11152 Iriflogenin**

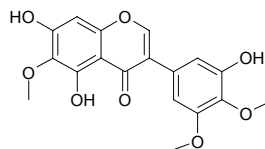
5,4'-Dihydroxy-3'-methoxy-6,7-methylenedioxyisoflavone; 3'-Methoxy-4',5-dihydroxy-6,7-methylenedioxyisoflavone $C_{17}H_{12}O_7$ (328.28). **Pharm:** CyP1A inhibitor ($IC_{50} = (1.4 \pm 0.6)\mu\text{mol/L}$)^[5347]; QR inhibitor (cultured mouse Hepa1c1c7 cells, $CD > 50\mu\text{mol/L}$, $50\mu\text{mol/L}$ InRt = 1.9%, $IC_{50} > 50\mu\text{mol/L}$)^[5347]; DPPH scavenger ($SC_{50} = (89.6 \pm 4.4)\mu\text{mol/L}$)^[5347]. **Source:** DE GUO YUAN WEI *Iris germanica* (rhizome), JUAN QIAO YUAN WEI *Iris potaninii* (underground part). **Ref:** 4235, 5347.

**11153 Iriflophenone**

$C_{13}H_{10}O_5$ (246.22). **Source:** JUAN QIAO YUAN WEI *Iris potaninii* (underground part), XI OU YUAN WEI *Iris florentina*. **Ref:** 1521, 4235.

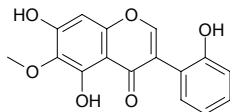
**11154 Irigenin**

5,7,3'-Trihydroxy-6,4',5'-trimethoxyisoflavone $C_{18}H_{16}O_8$ (360.32). **Pharm:** CyP1A inhibitor ($IC_{50} = (1.2 \pm 0.3)\mu\text{mol/L}$)^[5347]; QR inhibitor (cultured mouse Hepa1c1c7 cells, $CD = (7.8 \pm 0.1)\mu\text{mol/L}$, $IC_{50} > 50\mu\text{mol/L}$)^[5347]; DPPH scavenger ($SC_{50} > 250\mu\text{mol/L}$, $250\mu\text{mol/L}$ scavenging rate = 15%)^[5347]. **Source:** BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: content = 1.21%)^[5508], DE GUO YUAN WEI *Iris germanica* (rhizome), SHE GAN *Belamcanda chinensis* (dried rhizome: content = 1.45%)^[5508], YUAN WEI *Iris tectorum* (dried rhizome: content = 0.68%)^[5508]. **Ref:** 4128, 5347, 5508.

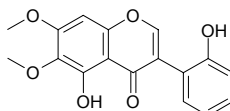


11155 Irilin A

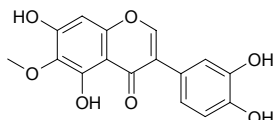
$C_{16}H_{12}O_6$ (300.27). Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11156 Irilin B**

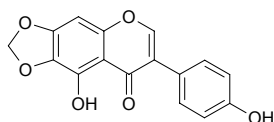
$C_{17}H_{14}O_6$ (314.3). Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11157 Irilin D**

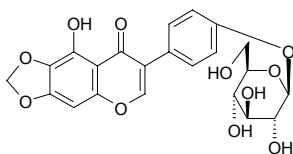
3',4',5',7-Tetrahydroxy-6-methoxyisoflavone $C_{16}H_{12}O_7$ (316.27). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11158 Irlone**

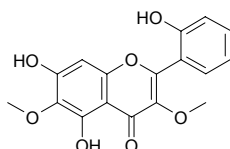
5,4'-Dihydroxy-6,7-methylenedioxyisoflavone $C_{16}H_{10}O_6$ (298.25). Pharm: CyP1A inhibitor ($IC_{50} = (0.3 \pm 0.1) \mu\text{mol/L}$); QR inhibitor (cultured mouse Hepa1c1c7 cells, $CD = (16.7 \pm 2.3) \mu\text{mol/L}$, $IC_{50} = (17.6 \pm 1.6) \mu\text{mol/L}$); DPPH radical scavenger ($SC_{50} > 250 \mu\text{mol/L}$, 250 $\mu\text{mol/L}$ scavenging rate = 2%)^[5347]; germination inhibitor (embryo sheath of wheat, *in vitro*). Source: DE GUO YUAN WEI *Iris germanica* (rhizome), HONG CHE ZHOU CAO *Trifolium pratense*. Ref: 658, 5347.

**11159 Irlone 4'-O-β-D-glucoside**

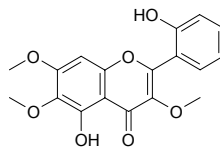
$C_{22}H_{20}O_{11}$ (460.40). Amorphous solid, mp 157°C, $[\alpha]_D^{24} = +47.6^\circ$ ($c = 0.63$, MeOH). Source: DE GUO YUAN WEI *Iris germanica* (rhizome). Ref: 4223.

**11160 Irisflavone A**

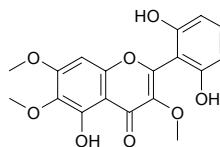
5,7,2'-Trihydroxy-3,6-dimethoxyflavone $C_{17}H_{14}O_7$ (330.3). Yellow needles. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11161 Irisflavone B**

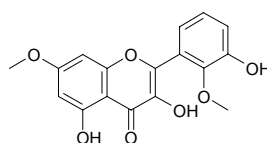
2',5-Dihydroxy-3,6,7-trimethoxyflavone $C_{18}H_{16}O_7$ (344.32). Yellow needles, mp 205–206°C. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11162 Irisflavone C**

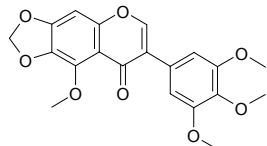
5,2',6'-Trihydroxy-3,6,7-trimethoxyflavone $C_{18}H_{16}O_8$ (360.32). Yellow needles. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11163 Irisflavone D**

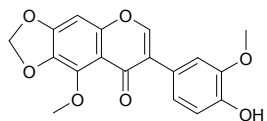
3,5,3'-Trihydroxy-7,2'-dimethoxyflavone $C_{17}H_{14}O_7$ (330.3). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**11164 Irisfloreutin**

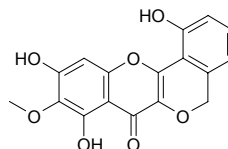
$C_{20}H_{18}O_8$ (386.36). Source: BAI HUA SHE GAN *Iris dichotoma*, SHE GAN *Belamcanda chinensis*, SHE GAN *Belamcanda chinensis* (rhizome). Ref: 660, 4128.

**11165 Iriskashmirianin**

4'-Hydroxy-5,3'-dimethoxy-6,7-methylenedioxyisoflavone $C_{18}H_{14}O_7$ (342.31). Pharm: CyP1A inhibitor ($IC_{50} > 5 \mu\text{mol/L}$, 5 $\mu\text{mol/L}$ InRt = 0%); QR inhibitor (cultured mouse Hepa1c1c7 cells, $CD (+3.5 \pm 1.5) \mu\text{mol/L}$, $IC_{50} > 50 \mu\text{mol/L}$); DPPH scavenger ($SC_{50} = (120.3 \pm 7.4) \mu\text{mol/L}$). Source: DE GUO YUAN WEI *Iris germanica* (rhizome). Ref: 5347.

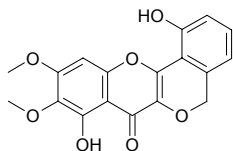
**11166 Irisoid A**

1,8,10-Trihydroxy-9-methoxy-[1]benzopyrano-[3,2-c][2]benzopyran-7(5H)-one $C_{17}H_{12}O_7$ (328.28). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 4130.

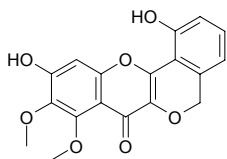


11167 Irisoid B

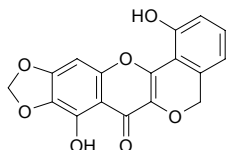
1,8-Dihydroxy-9,10-dimethoxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one C₁₈H₁₄O₇ (342.31). Yellow needles, mp 329~330°C. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 4130.

**11168 Irisoid C**

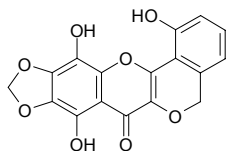
1,10-Dihydroxy-8,9-dimethoxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one C₁₈H₁₄O₇ (342.31). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 4130.

**11169 Irisoid D**

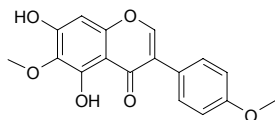
1,8-Dihydroxy-9,10-methylenedioxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one C₁₇H₁₀O₇ (326.27). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 4130.

**11170 Irisoid E**

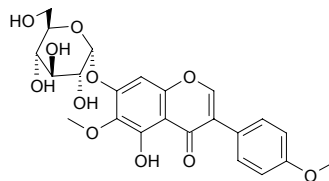
1,8,11-Trihydroxy-9,10-methylenedioxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one C₁₇H₁₀O₈ (342.26). Amorphous powder. Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 4130.

**11171 Irisolidone**

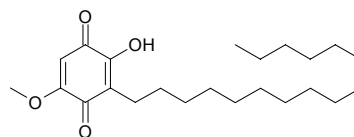
5,7-Dihydroxy-6,4'-dimethoxyisoflavone C₁₇H₁₄O₆ (314.30). Pharm: CyP1A inhibitor (IC₅₀ = (4.9±0.5)μmol/L); QR inhibitor (cultured mouse Hepa1c1c7 cells, CD > 50μmol/L, 50μmol/L InRt = 1.4%, IC₅₀ > 50μmol/L); DPPH scavenger (SC₅₀ > 250μmol/L, 250μmol/L scavenging rate = 8%). Source: DE GUO YUAN WEI *Iris germanica* (rhizome). Ref: 5347.

**11172 Irisolidone-7-O-α-D-glucoside**

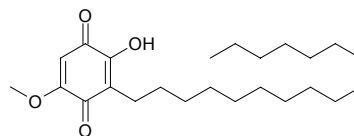
5,7-Dihydroxy-6,4'-dimethoxyisoflavone-7-O-α-D-glucopyranoside C₂₃H₂₄O₁₁ (476.44). Pharm: CyP1A inhibitor (IC₅₀ > 5μmol/L, 5μmol/L InRt = 38%); QR inhibitor (cultured mouse Hepa1c1c7 cells, CD > 50μmol/L, 50μmol/L InRt = 1.2, IC₅₀ > 50μmol/L); DPPH scavenger (SC₅₀ > 250μmol/L, 250μmol/L scavenging rate = 1%). Source: DE GUO YUAN WEI *Iris germanica* (rhizome). Ref: 5347.

**11173 Irisoquin A**

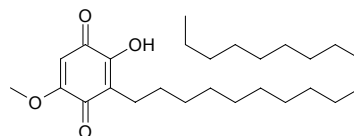
2-Hydroxy-3-hexadecyl-5-methoxy-1,4-benzoquinone C₂₃H₃₈O₄ (378.56). Orange coloured powder, mp 81.5°C. Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.

**11174 Irisoquin B**

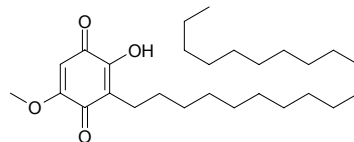
2-Hydroxy-3-heptadecyl-5-methoxy-1,4-benzoquinone C₂₄H₄₀O₄ (392.58). Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.

**11175 Irisoquin C**

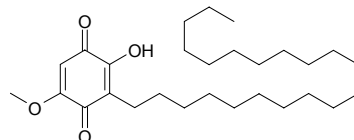
2-Hydroxy-3-nonadecyl-5-methoxy-1,4-benzoquinone C₂₆H₄₄O₄ (420.64). Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.

**11176 Irisoquin D**

2-Hydroxy-3-eicosanyl-5-methoxy-1,4-benzoquinone C₂₇H₄₆O₄ (434.67). Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.

**11177 Irisoquin E**

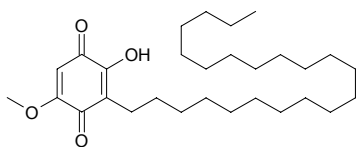
C₂₈H₄₈O₄ (448.69). Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.



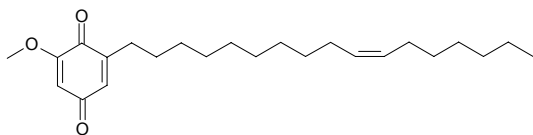
11178 Irisoquin F

2-Hydroxy-3-docosanyl-5-methoxy-1,4-benzoquinone C₂₉H₅₀O₄ (462.72).

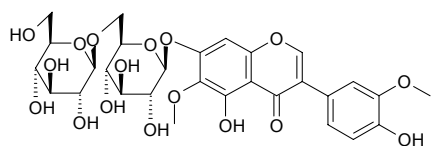
Source: XI MA LA YA YUAN WEI *Iris kumaonensis*. Ref: 1935.

**11179 Irisquinone A**

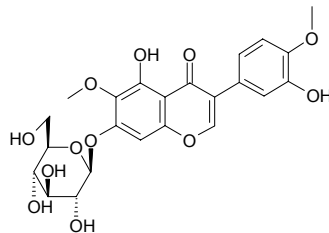
Pallasone A; Irisquinone [56495-82-0] C₂₄H₃₈O₃ (374.57). Yellow needles (MeOH), mp 42.5–43.5°C. Pharm: Antineoplastic (acute leukemia and solid tumor, mus tumor U14, 3~7mg/kg ip, InRt = (44.0~55.5)%, mus lymphatic sarcoma, 3mg/kg, InRt = 33.3%, liver cancer in solid tumor, 7mg/kg, InRt = 38%, liver cancer with ascites, 5mg/kg, biotic prolonged rate = 150%, EAC, 5mg/kg, biotic prolonged rate = 38%); immunoenhancer; cytotoxic (radiosensitizing agent, *in vitro*, U₁₄, S-180V, HeLa, mus Ma7373 breast cancer cell, hmn intestinal mucoadenocarcinoma in nude mouse, mechanism was considered to be an inhibition of oxygen consumption and depletion of glutathione in tumor cells)^[5369]; antineoplastic (mus tumor xenografts, U₁₄ cervical cancer and Ehrlich carcinoma, ip, lymphosarcoma, ip and oral administration, inhibits cancer growth)^[5369]; antineoplastic (mus bearing U₁₄ tumor, orl 100mg/kg or iv 5mg/kg, once every other day for 5 cycles, starting 24h after implantation of the tumor, tumor inhibition rate = (35~55)%^[5369]; antineoplastic (clinical trial, given orl to 558 patients with cancer of lung and esophagus, or with superficial metastatic cancer during radiotherapy, significantly reduction of tumor size and prolongation of survival time of the patients)^[5369]; LD₅₀ (mus, ip) = 28mg/kg (25.4mg/kg), LD₅₀ (mus, orl) = 2.8g/kg. Source: HUANG CHANG PU *Iris pseudacorus*, MA LIN *Iris pallasii* var. *chinensis*, MA LIN ZI *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*] (spermoderm: mean content = 0.81%^[5508]). Ref: 658, 3124, 3125, 3126, 5369, 5508.

**11180 Iristectorigenin B 7-glucosyl(1→6)glucoside**

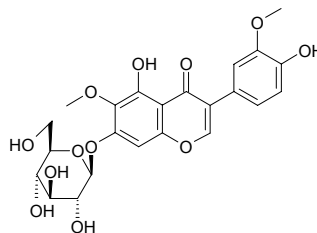
C₂₉H₃₄O₁₇ (654.58). Yellow amorphous powder. Source: AI JI ZHONG ZHI YUAN WEI *Iris carthaliniae*. Ref: 1880.

**11181 Iristectorin A**

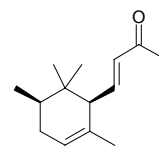
[37744-61-9] C₂₃H₂₄O₁₂ (492.44). mp 212~214°C. Source: MU TIAN LIAO *Actinidia polygama*, YUAN WEI *Iris tectorum*. Ref: 6, 660.

**11182 Iristectorin B**

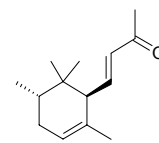
C₂₃H₂₄O₁₂ (492.44). mp 153~155°C. Source: YUAN WEI *Iris tectorum*. Ref: 6.

**11183 cis-α-Irone**

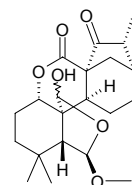
C₁₄H₂₂O (206.33). Pharm: Flavorant. Source: XI OU YUAN WEI *Iris florentina*, *Viola* sp. Ref: 658.

**11184 trans-α-Irone**

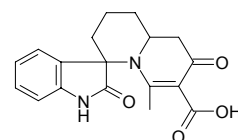
C₁₄H₂₂O (206.33). Source: XI OU YUAN WEI *Iris florentina*, *Viola* sp. Ref: 658.

**11185 Irroratin A**

C₂₁H₃₀O₆ (378.47). mp 185~187°C, [α]_D = -194.8° (c = 0.40, MeOH). Source: LU ZHU XIANG CHA CAI *Isodon irrorata*. Ref: 4067.

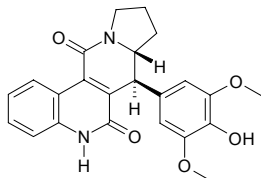
**11186 Isaindigodione**

C₁₈H₁₈N₂O₄ (326.36). White powdery solid. Source: BAN LAN GEN *Isatis indigotica*. Ref: 2161.

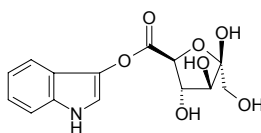


11187 Isaindigotidione

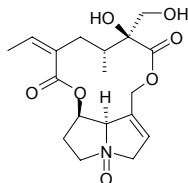
$C_{23}H_{22}N_2O_5$ (406.44). White powder mp 242°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 2119.

**11188 Isatan B**

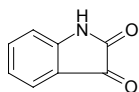
$C_{14}H_{15}NO_7$ (309.28). Source: DA QING YE *Isatis indigotica*. Ref: 2.

**11189 Isatidine**

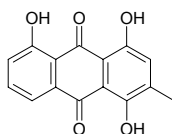
[15503-86-3] $C_{18}H_{25}NO_7$ (367.40). mp 145°C, $[\alpha]_D = -8.2^\circ$ (water). Pharm: Carcinogen (animal model); toxin (horse orl, 14–15g, feeding 2 or 3 times to death); LD₅₀ (rat, orl) = 48mg/kg, (rat, ip) = 250mg/kg. Source: CHAI HU ZHUANG QIAN LI GUANG *Senecio bupleuroides*, SHAO FU E QIAN LI GUANG *Senecio paucicazyculatus*, CHANG YE QIAN LI GUANG *Senecio longifolius*. Ref: 658.

**11190 Isatin**

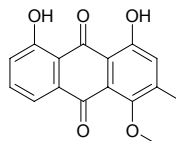
2,3-Indolinedione [91-56-5] $C_8H_5NO_2$ (147.13). mp 203.5°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 6.

**11191 Islandicin**

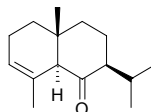
$C_{15}H_{10}O_5$ (270.24). Pharm: Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100μmol/L). Source: YI HE GUO *Ventilago leiocarpa* (stem). Ref: 3057.

**11192 Islandicin 4-methyl ether**

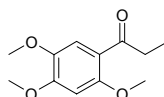
$C_{16}H_{12}O_5$ (284.27). Red needles (EtOAc-*n*-hexane), mp 184–186°C. Pharm: Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100μmol/L). Source: YI HE GUO *Ventilago leiocarpa* (stem). Ref: 3057.

**11193 Isoacolumone**

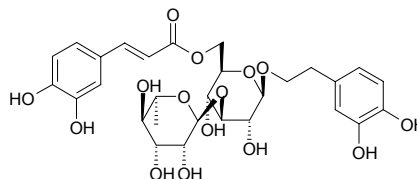
$C_{15}H_{24}O$ (220.36). Oil. Source: BAI CHANG *Acorus calamus*. Ref: 6.

**11194 Isoacoramone**

$C_{12}H_{16}O_4$ (224.26). Yellowish ropy liquid. Source: SHI CHANG PU *Acorus tatarinowii*. Ref: 8.

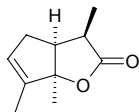
**11195 Isoacteoside**

Isoverbascoside $C_{29}H_{36}O_{15}$ (624.60). Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 7.2%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%)^[4508]; antioxidant (relative potency = 5.8, compared with resveratrol, relative potency = 1)^[4920]; elastase inhibitor (hmn leukocyte *in vitro*, IC₅₀ = 179μg/mL = 286μmol/L; control Caffeic acid, IC₅₀ = 86μg/mL = 475μmol/L)^[5458]; antitrypanosomal (*Trypanosoma b. rhodesiense*, IC₅₀ = 6.2μg/mL, control Melarsoprol, IC₅₀ = 0.00098μg/mL; *Trypanosoma cruzi*, IC₅₀ > 90μg/mL, control Benzimidazole, IC₅₀ = 1.06μg/mL)^[5009]; antileishmanial (*Leishmania donovani*, IC₅₀ = 9.2μg/mL, control Miltefosine, IC₅₀ = 0.102μg/mL)^[5009]; antimalarial (*Plasmodium falciparum*, IC₅₀ = 37.5μg/mL, control Artemisinin, IC₅₀ = 0.0022μg/mL)^[5009]; cytotoxic (L6, IC₅₀ = 55.4μg/mL, control Podophyllotoxin, IC₅₀ = 0.008μg/mL)^[5009]. Source: A LA BO PO PO NA *Veronica persica* (aerial parts), CHE QIAN *Plantago asiatica*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], LIE DANG *Orobanchae coerulea* (whole herb), NAN FEI GOU MA *Harpagophytum procumbens*, TIAN SHE CAO *Lippia dulcis* (aerial parts), ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 2, 660, 4211, 4508, 4920, 5009, 5458.

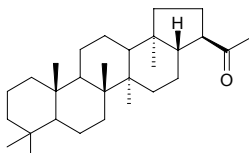


11196 Isoactinidialactone

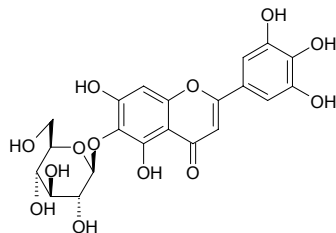
C₁₀H₁₄O₂ (166.22). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.

**11197 Isoadiantone**

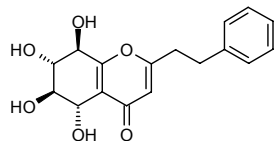
[58260-74-5] C₂₉H₄₈O (412.71). mp 232~233°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum*, TIE SI QI *Adiantum pedatum*. Ref: 6.

**11198 Isoaffinetin**

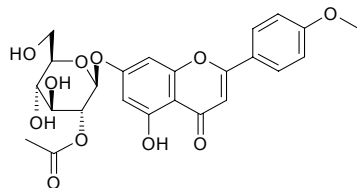
5,7,3',4',5'-Pentahydroxyflavone-6-C-glucoside [60476-24-6] C₂₁H₂₀NO₁₃ (480.39). Pharm: Aldose reductase inhibitor (porcine lens, IC₅₀ = (4.6±0.4)μmol/L; rat lens, IC₅₀ = (1.2±0.2)μmol/L; recombinant hmn, IC₅₀ = (1.0±0.1)μmol/L). Source: IN DU TIE XIAN ZI *Manilkara indica*. Ref: 5452.

**11199 Isoagarotretrol**

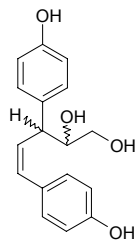
AH2 [104060-61-9] C₁₇H₁₈O₆ (318.33). Colorless lamellar crystals, mp 174~175°C (dec), [α]_D²⁰ = -58.6° (c = 1.19, MeOH). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13, 1521.

**11200 Isoagastachoside**

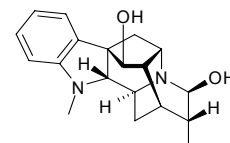
[78886-64-3] C₂₄H₂₄O₁₁ (488.45). Source: HUO XIANG *Agastache rugosus*. Ref: 2.

**11201 Isoagatharesinol**

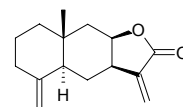
C₁₇H₁₈O₄ (286.33). Colorless gum, [α]_D²¹ = +49.7° (c = 5.40, Me₂CO). Pharm: Cytotoxic (*in vitro*, HO-8910, IC₅₀ > 658μmol/L, Vincristine, IC₅₀ = (25.1±1.9)μmol/L; Bel7405, IC₅₀ > 658μmol/L, Vincristine, IC₅₀ = (31.4±3.4)μmol/L). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**11202 Isoajmaline**

[6989-79-3] C₂₀H₂₆N₂O₂ (326.44). Prisms (MeOH aq.), plates (Et₂O), mp 265 (dec), [α]_D¹⁸ = +72° (c = 0.7, CHCl₃). Pharm: Bidirectional action to CNS (first stimulates, then inhibits); uterine stimulant; antihypertensive. Source: YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 658.

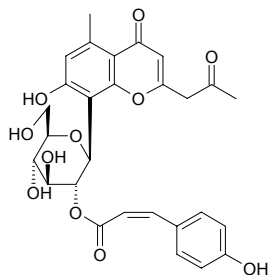
**11203 Isoalantolactone**

Isohenin; 5αH-Eudesma-4(15),11(13)-dien-12,8β-olide [470-17-7] C₁₅H₂₀O₂ (232.33). Crystals (EtOH aq.), mp 115°C, mp 109~110°C, [α]_D²⁰ = +172° (CHCl₃). Pharm: Antifungal (*Epidermophyton*, MIC = 35μg/mL, *Trichophyton mentagrophytes*, MIC = 25μg/mL); anthelmintic (ascarid, protozoan, *Australorbis glabratus*); antiprotozoal (*Amoeba dysenteriae*, and *Trichomonas vaginalis*); insect antifeedant; anti-inflammatory (NO production inhibitor, cultured rat aortic smooth muscle cells treated with LPS and interferon-γ)^[4415]; cytotoxic (SMMC-7721 IC₅₀ = (6.21±1.63)μg/mL, Vincristine IC₅₀ = (30.35±2.23)μg/mL; HO-8910 IC₅₀ = (5.28±0.78)μg/mL, Vincristine IC₅₀ = (20.74±1.91)μg/mL; LO2 hmn hepatocytes cell IC₅₀ = (9.77±1.91)μg/mL, Vincristine IC₅₀ = (17.25±0.91)μg/mL)^[5422]; MLD (mus, sc) = 2000mg/kg. Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0015%^[4736]), DA YE TU MU XIANG *Inula grandis*, JIA NA DA CANG ER *Xanthium canadense*, JIN FEI CAO *Inula japonica*, MEI LI TE LE JU *Telekia speciosa*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], TU MU XIANG *Inula helenium* (root: mean content of 2 batch samples = 1.00%^[5508]), XI MA XUAN FU HUA *Inula royleana*, ZONG ZHUANG TU MU XIANG *Inula racemosa*, ZONG ZHUANG TU MU XIANG *Inula racemosa* (root: mean content of 4 batch samples = 1.90%^[5508]). Ref: 4, 658, 1521, 4415, 4736, 5422, 5508.

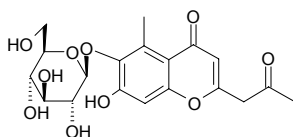


11204 Isoaloeresin A

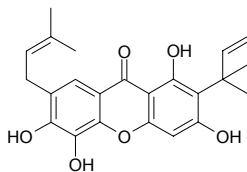
$C_{28}H_{28}O_{11}$ (540.53). Source: HAO WANG JIAO LU HUI *Aloe ferox*. Ref: 660.

**11205 Isoaloecin**

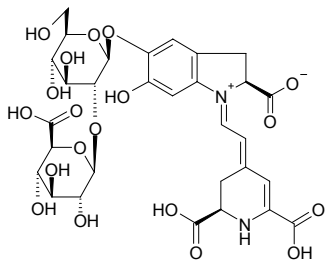
2-Acetyl-6-C- β -D-glucopyranosyl-7-hydroxy-5-methyl-chromone $C_{19}H_{22}O_{10}$ (410.38). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 534.

**11206 Isoalvaxanthone**

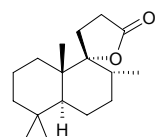
$C_{23}H_{24}O_6$ (396.44). Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.035$ mmol/L; HGF, $CC_{50} = 0.058$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root; yield = 0.00164%dw). Ref: 3025.

**11207 Isoamaranthin**

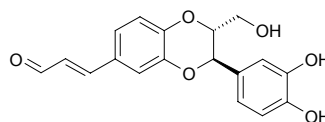
[15229-42-2] $C_{30}H_{34}N_2O_{19}$ (726.61). Source: QIAN RI HONG *Gomphrena globosa*. Ref: 15.

**11208 Isoambreinolide**

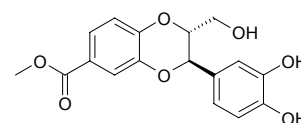
$C_{17}H_{28}O_2$ (264.41). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed; yield = 0.0018%dw). Ref: 4623.

**11209 Isoamericanin A**

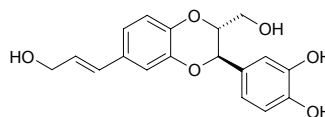
[109063-85-6] $C_{18}H_{16}O_6$ (328.32). mp 177~178°C, $[\alpha]_D = \pm 0^\circ$ ($c = 1.01$). Pharm: Stimulates release of PGI₂ (10 μ mol/L, makes PGI₂ releasing 149.8%); nourishes nerve (10 μ mol/L, increases activity of choline acetyltransferase in rat cerebrum). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 954, 1022.

**11210 Isoamericanoic acid A methyl ester**

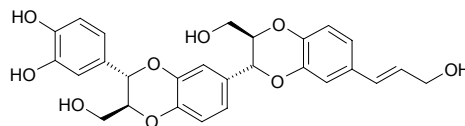
$C_{17}H_{16}O_7$ (332.31). $[\alpha]_D^{20} = 0^\circ$ ($c = 0.71$, MeOH). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*] (seed). Ref: 4407.

**11211 Isoamericanol A**

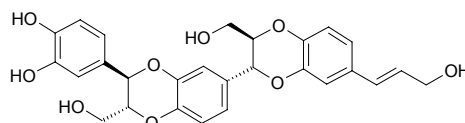
[121620-06-2] $C_{18}H_{18}O_6$ (330.34). Colorless rhombic crystals, mp 157~159°C (ethyl acetate-acetone), $[\alpha]_D^{27} = \pm 0^\circ$ ($c = 1.05$, ethanol). Pharm: Nourishes nerve (10 μ mol/L, increases activity of choline acetyltransferase in rat cerebrum). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 1022, 1521.

**11212 Isoamericanol B₁**

rel-(7ⁿE)-(7 α ,8 β ,7 α ,8 β)-3,4,9,9',9''-Pentahydroxy-3',7:3'',7'-diepoxy-8,4':8',4''-bisoxysesqueneolign-7ⁿ-ene $C_{27}H_{26}O_9$ (494.50). Colorless amorphous solid. Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

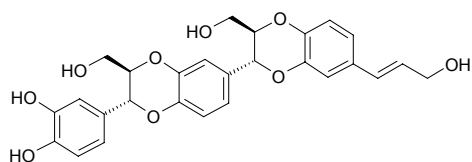
**11213 Isoamericanol B₂**

rel-(7ⁿE)-(7 α ,8 β ,7 β ,8 α)-3,4,9,9',9''-Pentahydroxy-3',7:3'',7'-diepoxy-8,4':8',4''-bisoxysesqueneolign-7ⁿ-ene $C_{27}H_{26}O_9$ (494.50). Colorless amorphous solid. Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

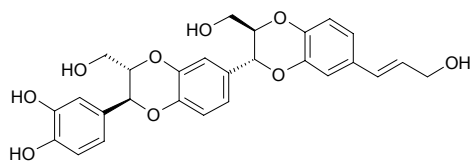


11214 Isoamericanol C₁

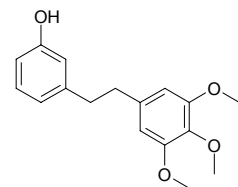
rel-(7''*E*)-(7 α ,8 β ,7' α ,8' β)-3,4,9,9',9''-Pentahydroxy-4',7:3'',7'-diepoxy-8,3':8',4''-bisoxysesquieolign-7''-ene C₂₇H₂₆O₉ (494.50). Colorless amorphous solid. Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

**11215 Isoamericanol C₂**

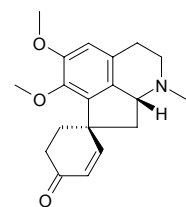
rel-(7''*E*)-(7 α ,8 β ,7' β ,8' α)-3,4,9,9',9''-Pentahydroxy-4',7:3'',7'-diepoxy-8,3':8',4''-bisoxysesquieolign-7''-ene C₂₇H₂₆O₉ (494.50). Colorless amorphous solid. Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

**11216 Isoamoenylin**

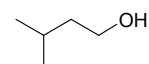
C₁₇H₂₀O₄ (288.35). Source: KE AI SHI HU *Dendrobium amoenum*. Ref: 2397.

**11217 Isoamuronine**

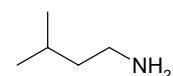
C₁₉H₂₃NO₃ (313.4). Yellow powder. Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**11218 Isoamyl alcohol**

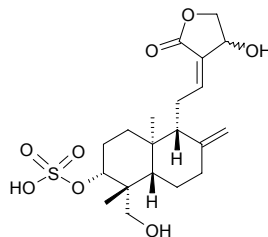
Isopentanol [123-51-3] C₅H₁₂O (88.15). bp 132°C. Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], MEI GUI HUA *Rosa rugosa*. Ref: 2, 1445.

**11219 Isoamylamine**

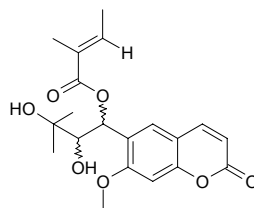
[107-85-7] C₅H₁₃N (87.17). bp 95°C. Source: GUI GAI *Coprinus atramentarius*. Ref: 6.

**11220 Isoandrographolide-3-O-sulfate**

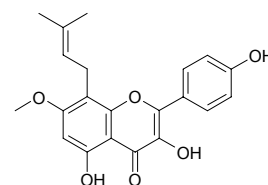
C₂₀H₃₀O₈S (430.52). White amorphous powder. Source: REN NIAO *Homo sapiens*. Ref: 4300.

**11221 Isoangelol**

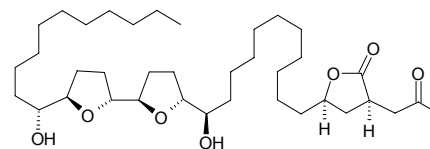
[110115-58-7] C₂₀H₂₄O₇ (376.41). Colorless transparent substance, [α]_D²⁰ = -138.5° (c = 0.33, chloroform). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 8, 79.

**11222 Isoanhydrocaritin**

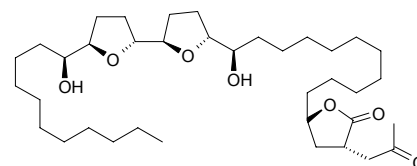
3,4',5-Trihydroxy-7-methoxy-8-isopentenylflavone C₂₁H₂₀O₆ (368.39). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 6, 660, 4430.

**11223 Isoannonarectin**

C₃₇H₆₆O₇ (622.93). Source: NIU XIN FAN LI ZHI *Annona reticulata*. Ref: 401.

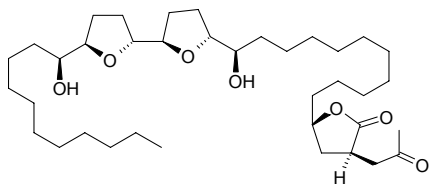
**11224 2,4-cis-Isoannonarectin**

C₃₇H₆₆O₇ (622.93). Source: NIU XIN FAN LI ZHI *Annona reticulata*. Ref: 432.

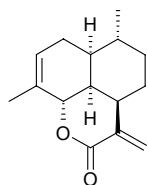


11225 2,4-trans-Isoannonarecticin

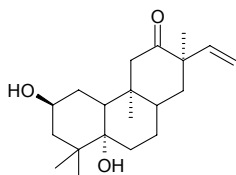
$C_{37}H_{66}O_7$ (622.93). Source: NIU XIN FAN LI ZHI *Annona reticulata*. Ref: 432.

**11226 Isoannulide**

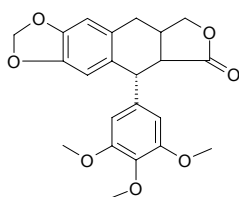
$C_{15}H_{20}O_2$ (232.33). Source: HUANG HUA HAO *Artemisia annua* (aerial parts). Ref: 5224.

**11227 Isoanomallotusin**

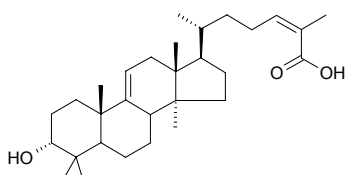
[141374-89-2] $C_{20}H_{32}O_3$ (320.47). White acicular crystals, mp 213~215°C (acetone–diethyl ether), $[\alpha]_D^{25} = +101.20^\circ$ ($c = 0.045$, methanol). Pharm: Inhibits leukemia cells *in vitro* (1 $\mu\text{g}/\text{mL}$, InRt = 98%, *in vivo* no effect). Source: XIU MAO YE TONG *Mallotus anomalus*. Ref: 1184.

**11228 Isoanthricin**

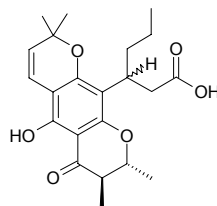
$C_{22}H_{22}O_7$ (398.24). mp 170°C. Source: E SHEN *Anthriscus sylvestris*. Ref: 6.

**11229 Isoanwuweizic acid**

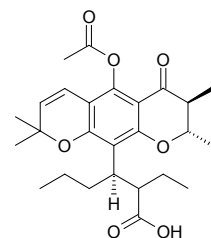
$C_{30}H_{48}O_3$ (456.72). Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 2436.

**11230 Isoapetalic acid**

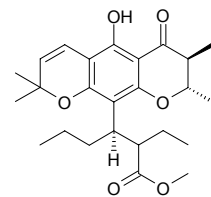
$C_{22}H_{28}O_6$ (388.46). Yellow oil, $[\alpha]_D^{25} = -23.0^\circ$ ($c = 1.0$, CH_2Cl_2). Pharm: Cytotoxic (KB, $\text{ED}_{50} = 11.29\mu\text{g}/\text{mL}$, HeLa, $\text{ED}_{50} = 12.77\mu\text{g}/\text{mL}$, hmn medulloblastoma, $\text{ED}_{50} > 20\mu\text{g}/\text{mL}$, control Doxorubicin, $\text{ED}_{50} = 0.15\mu\text{g}/\text{mL}$, $0.14\mu\text{g}/\text{mL}$, $0.19\mu\text{g}/\text{mL}$ respectively)^[4274]; antifungal inactive (*Aspergillus fumigatus*, $\text{MIC}_{80} > 250\mu\text{g}/\text{mL}$, Amphotericin B, $\text{MIC}_{80} = 8\mu\text{g}/\text{mL}$)^[5489]. Source: SU GE LAN HU TONG *Calophyllum caledonicum* (seed), *Calophyllum blancoi* (seed). Ref: 4274, 5489.

**11231 Isoapetalic acid 5-O-acetate**

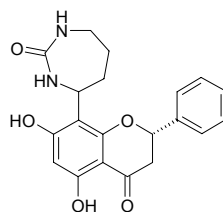
$C_{24}H_{30}O_7$ (430.50). Yellow oil, $[\alpha]_D^{25} = -37.6^\circ$ ($c = 1.0$, CH_2Cl_2). Pharm: Cytotoxic (KB, $\text{ED}_{50} = 13.15\mu\text{g}/\text{mL}$, HeLa, $\text{ED}_{50} = 16.79\mu\text{g}/\text{mL}$, hmn medulloblastoma, $\text{ED}_{50} = 13.37\mu\text{g}/\text{mL}$, control Doxorubicin, $\text{ED}_{50} = 0.15\mu\text{g}/\text{mL}$, $0.14\mu\text{g}/\text{mL}$, $0.19\mu\text{g}/\text{mL}$ respectively). Source: *Calophyllum blancoi* (seed). Ref: 4274.

**11232 Isoapetalic methyl ester**

$C_{23}H_{30}O_6$ (402.49). Yellow oil, $[\alpha]_D^{25} = -83.7^\circ$ ($c = 1.0$, CH_2Cl_2). Pharm: Cytotoxic (KB, $\text{ED}_{50} = 6.37\mu\text{g}/\text{mL}$, HeLa, $\text{ED}_{50} = 7.79\mu\text{g}/\text{mL}$, hmn medulloblastoma, $\text{ED}_{50} = 8.69\mu\text{g}/\text{mL}$, control Doxorubicin, $\text{ED}_{50} = 0.15\mu\text{g}/\text{mL}$, $0.14\mu\text{g}/\text{mL}$, $0.19\mu\text{g}/\text{mL}$ respectively). Source: *Calophyllum blancoi* (seed). Ref: 4274.

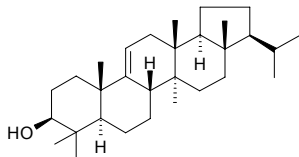
**11233 Isoaquiledine**

(2*S*)-8-(1,4-Ureylenebutyl)-5,7-dihydroxyflavanone $C_{20}H_{20}N_2O_5$ (368.39). White amorphous powder (CH_3OH), mp 232~233°C, $[\alpha]_D^{25} = +19^\circ$ ($c = 0.43$, CH_3OH). Source: WU JU LOU DOU CAI *Aquilegia ecalcarata* (whole herb: yield = 0.000078%dw). Ref: 3029.

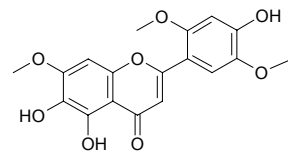


11234 Isoarborinol

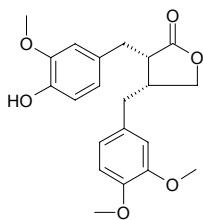
[5532-41-2] C₃₀H₅₀O (426.73). Crystals (CHCl₃-MeOH), mp 294.0~294.5°C, [α]_D = +47° (c = 0.53, CHCl₃). **Pharm:** Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. **Source:** CHOU SHAN YANG *Orixa japonica*, GOU MAO QIAN CAO *Rubia oncotricha*, JIN CAO *Hedyotis acutangula*, YIN DU BAI MAO *Imperata cylindrica*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. **Ref:** 6, 1521, 3069.

**11235 Isoarcapillin**

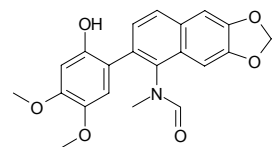
C₁₈H₁₆O₈ (360.32). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**11236 Isoartigenin**

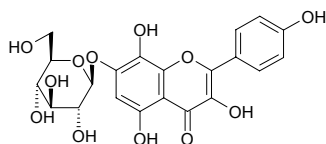
C₂₁H₂₄O₆ (372.42). mp *cis*- (+) 92~93°C. **Source:** NIU BANG ZI *Arctium lappa*. **Ref:** 6.

**11237 Isoarnottianamide**

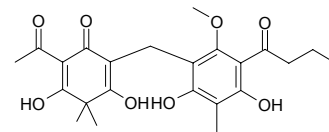
C₂₁H₁₉NO₆ (381.39). **Source:** HUA JIAO LE *Zanthoxylum cuspidatum*, RU DI JIN NIU *Zanthoxylum nitidum*. **Ref:** 660.

**11238 Isoarticulatin**

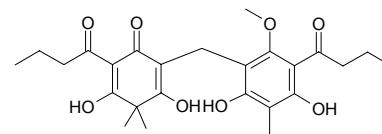
Herbacitrin [35815-07-7] C₂₁H₂₀O₁₂ (464.39). Yellow needles (pyridine aq.), mp 247~249°C. **Source:** MU ZEI *Equisetum hiemale*, WEN JING *Equisetum arvense*, MIAN HUA *Gossypium herbaceum*, YIN DU MIAN *Gossypium indicum*. **Ref:** 2, 660, 1521.

**11239 Isoaspidin AB**

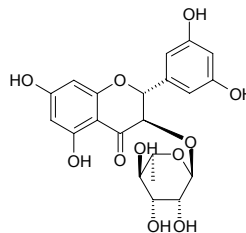
C₂₃H₂₈O₈ (432.47). **Source:** CHANG WEI FU YE ER JUE *Arachniodes simplicior*, CI TOU FU YE ER JUE *Arachniodes exilis*, *Arachniodes dimorphophylla*, *Arachniodes nipponica*. **Ref:** 660, 1521.

**11240 Isoaspidin BB**

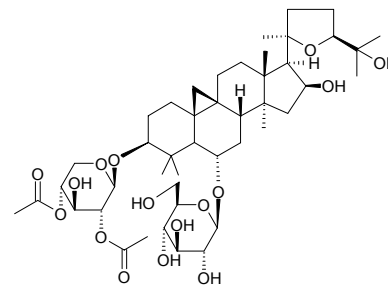
C₂₃H₃₂O₈ (460.53). **Source:** CHANG WEI FU YE ER JUE *Arachniodes simplicior*, CI TOU FU YE ER JUE *Arachniodes exilis*, *Arachniodes dimorphophylla*, *Arachniodes nipponica*. **Ref:** 660, 1521.

**11241 Isoastilbin B**

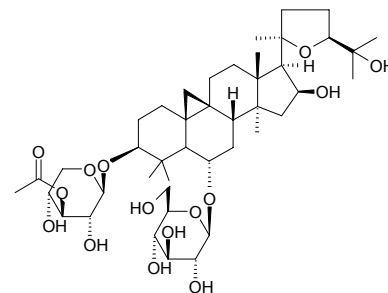
C₂₁H₂₂O₁₁ (450.40). Yellowish acicular crystals (methanol), mp 186~187°C; pale yellow needles (MeOH), mp 191~193°C, [α]_D³⁴ = -3.0° (c = 1.06, MeOH). **Source:** HAI QI *Excoecaria agallocha* (fresh stem), TU FU LING *Smilax glabra*. **Ref:** 366, 568, 4386.

**11242 Isoastragaloside I**

C₄₅H₇₂O₁₆ (869.07). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 660.

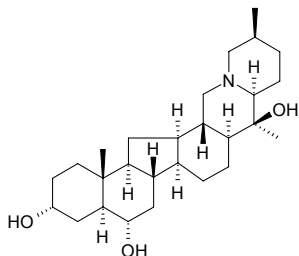
**11243 Isoastragaloside II**

C₄₃H₇₀O₁₅ (827.03). **Source:** HUANG QI *Astragalus membranaceus*. **Ref:** 660.

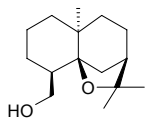


11244 Isobaimonidine

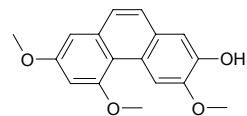
[74184-79-5] $C_{27}H_{45}NO_3$ (431.66). Crystals ($Me_2CO-CHCl_3$), mp 238~239°C, $[\alpha]_D^{22} = -12^\circ$ ($c = 0.5$, $CHCl_3$), $[\alpha]_D = -59.2^\circ$ ($c = 0.25$, $CHCl_3$). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], XI BEI MU *Fritillaria imperialis*. **Ref:** 660, 2201.

**11245 Isobaimuxinol**

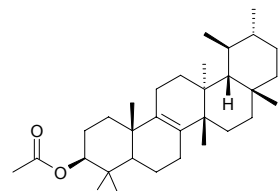
[122798-42-9] $C_{15}H_{26}O_2$ (238.37). Crystals, mp 73~75°C, $[\alpha]_D^{12} = -68^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 1521.

**11246 Isobatatin I**

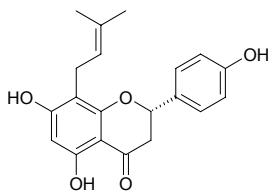
$C_{17}H_{16}O_4$ (284.31). **Pharm:** Antifungal (*Aspergillus niger* and *Botrytis cinerea*). **Source:** YUAN SHU YU *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*], JIANG GUO SHU YU *Tamus communis*. **Ref:** 658.

**11247 Isobauerenyl acetate**

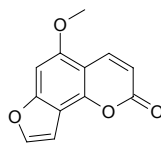
$C_{32}H_{52}O_2$ (468.77). **Source:** LIAN QIAO *Forsythia suspensa*. **Ref:** 660.

**11248 Isobavachin**

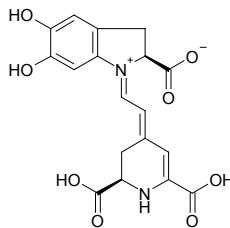
8-Prenylaringenin; Sophoraflavanone B [31524-62-6] $C_{20}H_{20}O_5$ (340.38). Crystals (MeOH), mp 187~188°C, mp 200~202°C, $[\alpha]_D^{22} = -46^\circ$ ($c = 0.13$, EtOH). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor)^[5038], cytotoxic (HSC-2 cells, $CC_{50} = 0.13$ mmol/L; HGF, $CC_{50} = 0.19$ mmol/L)^[3025]. **Source:** BU GU ZHI *Psoralea corylifolia*, GOU JI *Cudrania cochinchinensis* (root: yield = 0.00143%dw), LING NAN HUAI SHU *Sophora tomentosa*, PI JIU HUA *Humulus lupulus* (strobile), SHA SHENG HUAI *Sophora moorcroftiana*, ZHEN YE XUE TONG *Macaranga confera*. **Ref:** 2, 545, 1521, 3025, 4789, 5038.

**11249 Isobergapten**

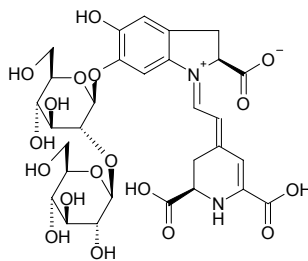
[482-48-4] $C_{12}H_8O_4$ (216.20). mp 222~224°C. **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], LANG DU *Stellera chamaejasme*, DA HUI QIN *Pimpinella magna*, HU ER CAO YE HUI QIN *Pimpinella saxifraga*, YONG NING DU HUO *Heracleum yungningense*, YU ZHUANG YUN XIANG *Ruta pinnata*. **Ref:** 6, 541, 1521.

**11250 Isobetandin**

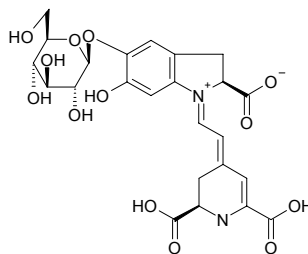
$C_{18}H_{16}N_2O_8$ (388.34). **Source:** DA HUA MA CHI XIAN *Portulaca grandiflora*, MA CHI XIAN *Portulaca oleracea*, MAO MA CHI XIAN *Portulaca pilosa*. **Ref:** 660.

**11251 Isobetandin-6-O-β-sophoroside**

$C_{30}H_{36}N_2O_{18}$ (712.62). **Source:** GUANG YE ZI HUA *Bougainvillea glabra*. **Ref:** 6.

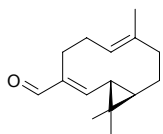
**11252 Isobetandin**

[15121-53-6] $C_{24}H_{26}N_2O_{13}$ (550.48). **Source:** LV XIAN REN ZHANG *Opuntia vulgaris*, SHI YONG RI ZHONG HUA *Mesembryanthemum edule*, DA HUA MA CHI XIAN *Portulaca grandiflora*, MA CHI XIAN *Portulaca oleracea*, MAO MA CHI XIAN *Portulaca pilosa*. **Ref:** 660, 658.

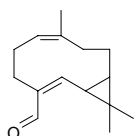


11253 (+)-Isobicyclogermacrenal

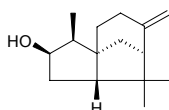
[110268-36-5] C₁₅H₂₂O (218.34). Source: GUAN MU TONG *Aristolochia manshuriensis*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0074%dw). Ref: 660, 3026.

**11254 (-)-Isobicyclogermacrenal**

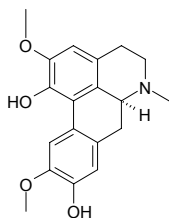
[73256-82-3] C₁₅H₂₂O (218.34). Source: YING ZHI YE TAI *Lepidozia vitrea*. Ref: 1521.

**11255 β-Isobiotol**

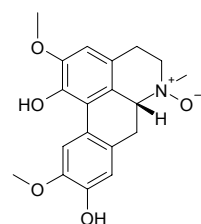
[24048-41-7] C₁₅H₂₄O (220.36). Crystals, mp 76.5°C, [α]_D²⁰ = -7.8°. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6, 1521.

**11256 Isoboldine**

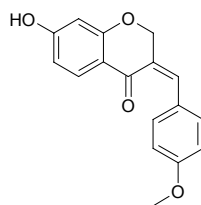
C₁₉H₂₁NO₄ (327.38). mp 178~180°C (dec), [α]_D¹³ = +54° (c = 0.20, EtOH). Pharm: Insect antifeedant. Source: AO XIAN ZI JIN *Corydalis cava*, BO LU DU SHU *Peumus boldus*, CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], HOU KE GUI *Cryptocarya chinensis* (leaf), WU MAO CHAN GAO SHU *Litsea glutinosa* var. *glabrara*, XIANG TANG SONG CAO *Thalictrum foetidum*. Ref: 6, 658, 660, 4129.

**11257 Isoboldine-β-N-oxide**

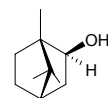
C₁₉H₂₁NO₅ (343.38). Brown powder, mp 177~179°C, [α]_D = -90.32° (c = 0.1395, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**11258 Isobonducellin**

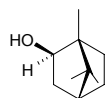
C₁₇H₁₄O₄ (282.30). Yellow needles, mp 156~158°C. Pharm: Antibacterial (gram-positive bacteria: *Staphylococcus aureus*, 30μg/mL, DIZ = 8mm; *Bacillus subtilis*, 30μg/mL, DIZ = 9mm; *Bacillus sphaericus*, 30μg/mL, DIZ = 8mm; control Penicillin G, 30μg/mL, DIZ = 12, 15, 14mm, respectively; gram-negative bacteria: *Pseudomonas aeruginosa*, 30μg/mL, DIZ = 9mm; *Klebsiella aerogenes*, 100μg/mL, inactive, *Chromobacterium violaceum*, 100μg/mL, inactive, control Penicillin G, 30μg/mL, DIZ = 24, 23, 24mm, respectively); antifungal (*Aspergillus niger*, 100μg/mL DIZ = 7mm; *Candida albicans*, 100μg/mL DIZ = 8mm; *Rhizopus oryzae*, 150μg/mL inactive; control Clotrimazole, 100μg/mL DIZ = 22, 25, 24mm, respectively). Source: JI MEI YUN SHI *Caesalpinia pulcherrima*. Ref: 3407.

**11259 D-Isoborneol**

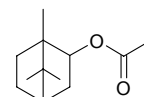
C₁₀H₁₈O (154.25). Pharm: Analgesic (mouse, hot plate)^[5501]; increases tolerance to anoxia (mouse)^[5501]; hypnotic (mouse, extends sleeping time due to pentobarbital)^[5501]; antibacterial (*Staphylococcus aureus*, β-hemolytic streptococcus, *Streptococcus pneumoniae*, *Streptococcus viridans*, *Escherichia coli*)^[5501]; anti-Inflammatory (mouse ear edema induced by croton oil)^[5501]; LD₅₀ = 2269mg/kg^[5501]. Source: BING PIAN *Dryobalanops aromatica* (37.52%~38.98%), SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. Ref: 2, 660, 5501.

**11260 L-Isoborneol**

C₁₀H₁₈O (154.25). Pharm: Analgesic (mouse, hot plate)^[5501]; increases tolerance to anoxia (mouse)^[5501]; hypnotic (mouse, extends sleeping time due to pentobarbital)^[5501]; antibacterial (*Staphylococcus aureus*, β-hemolytic streptococcus, *Streptococcus pneumoniae*, *Streptococcus viridans*, *Escherichia coli*)^[5501]; anti-Inflammatory (mouse ear edema induced by croton oil)^[5501]; LD₅₀ = 2269mg/kg^[5501]. Source: BING PIAN *Dryobalanops aromatica* (37.52%~38.98%), SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. Ref: 2, 660, 5501.

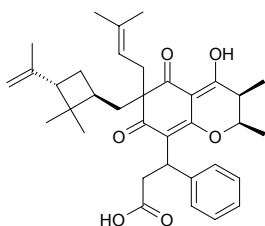
**11261 Isobornyl acetate**

C₁₂H₂₀O₂ (196.29). Source: BEI AI *Artemisia vulgaris*, HUANG HUA HAO *Artemisia annua*. Ref: 660.

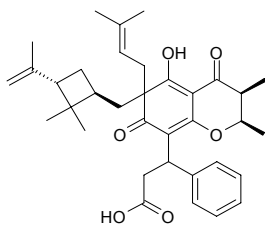


11262 Isobrasiliensophyllic acid A

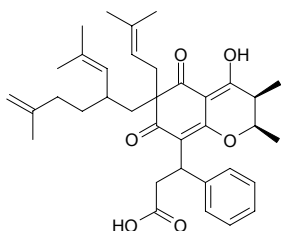
3-[*rel*-(2*S*,3*R*)-4-Hydroxy-6-(3-*isopropenyl*-2,2-dimethylcyclobutyl- β -methyl)-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid C₃₅H₄₄O₆ (560.74). Green gum, $[\alpha]_D^{20} = -12^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, MIC = 1 μ g/mL, control Chloramphenicol, MIC = 4 μ g/mL; *Staphylococcus epidermidis*, MIC = 16 μ g/mL, Chloramphenicol, MIC = 4 μ g/mL); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, 20 μ g/mL). **Source:** BA XI HU TONG *Calophyllum brasiliense* (Bark: yield = 0.0018%dw). **Ref:** 3019.

**11263 Isobrasiliensophyllic acid B**

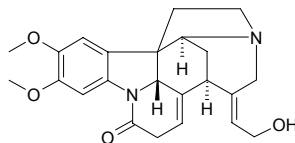
3-[*rel*-(2*S*,3*R*)-5-Hydroxy-6-(3-*isopropenyl*-2,2-dimethylcyclobutyl- β -methyl)-2,3-dimethyl-6-(3-methylbut-2-enyl)-4,7-dioxo-3,4,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid C₃₅H₄₄O₆ (560.74). Yellow gum, $[\alpha]_D^{20} = -49^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, MIC = 4 μ g/mL, control Chloramphenicol, MIC = 4 μ g/mL; *Staphylococcus epidermidis*, MIC = 16 μ g/mL, Chloramphenicol, MIC = 4 μ g/mL); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, 20 μ g/mL). **Source:** BA XI HU TONG *Calophyllum brasiliense* (Bark: yield = 0.0005%dw). **Ref:** 3019.

**11264 Isobrasiliensophyllic acid C**

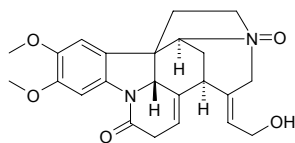
3-[*rel*-(2*S*,3*R*)-4-Hydroxy-2,3-dimethyl-6-(3-methylbut-2-enyl)-6-[5-methyl-2-(2-methylpropenyl)hex-5-enyl]-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid C₃₆H₄₆O₆ (574.76). Green gum, $[\alpha]_D^{20} = -56^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antibacterial (*Bacillus cereus*, MIC = 16 μ g/mL, control Chloramphenicol, MIC = 4 μ g/mL; *Staphylococcus epidermidis*, MIC = 16 μ g/mL, Chloramphenicol, MIC = 4 μ g/mL); cytotoxic inactive (KB, Jurkat-T, and myosarcoma, 20 μ g/mL). **Source:** BA XI HU TONG *Calophyllum brasiliense* (Bark: yield = 0.0005%dw). **Ref:** 3019.

**11265 Isobrucine**

[129724-78-3] C₂₃H₂₆N₂O₄ (394.47). Colorless rhombic crystals, mp 197–199°C (acetone), $[\alpha]_D = -31.1^\circ$ ($c = 0.3$, chloroform). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 23 μ mol/L; K562, IC₅₀ = 23 μ mol/L; Hep2, IC₅₀ = 34 μ mol/L). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 542, 1186, 1187.

**11266 Isobrucine N-oxide**

[130641-43-9] C₂₃H₂₆N₂O₅ (410.47). White powder, $[\alpha]_D = +34.2^\circ$ ($c = 0.0017$, methanol). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 26 μ mol/L; K562, IC₅₀ = 15 μ mol/L; Hep2, IC₅₀ = 4.3 μ mol/L); antioxidant; inhibits damage of myocardial cells caused by free radicals; free radical scavenger (inhibits formation of superoxide anion, X-XOD, IC₅₀ = 86.5 μ mol/L, NADH, IC₅₀ = 8.9 μ mol/L); xanthinoxidase inhibitor (IC₅₀ = (13.3 \pm 6.0) μ mol/L). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 542, 1180, 1186, 1187.

**11267 Isobutanol**

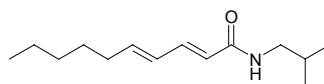
[78-84-2] C₄H₈O (72.11). bp 63–64°C/757mmHg. **Source:** NIU BANG GEN *Arctium lappa*. **Ref:** 6.

**11268 Isobutyl alcohol**

2-Methyl-1-propanol; Isobutanol [78-83-1] C₄H₁₀O (74.12). **Source:** SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 2.

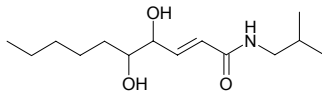
**11269 N-Isobutyldeca-trans-2-trans-4-dienamide**

Pellitorine; Pyretrin [18836-52-7] C₁₄H₂₅NO (223.36). Needles (pet. ether), mp 69°C, mp 75°C, mp 90–90.5°C. **Pharm:** Antifungal (TLC-based assay, *Cladosporium cucumerinum*, MIQ = 0.1 μ g, control Moiconazole, MIQ = 1 μ g; *Candida albicans*, MIQ = 10 μ g, Moiconazole, MIQ = 0.1 μ g)^[5385]; antibacterial (TLC-based assay, *Bacillus subtilis*, MIQ = 10 μ g; control Chloramphenicol, MIQ = 1 μ g)^[5385]; insecticide; phyto-growth inhibitor (100 μ g/mL, *Amaranthus hypochondriacus*, InRt = (20.3 \pm 0.7)% $_{P < 0.05}$; *E. crusgalli*, InRt = (55.6 \pm 2.2)% $_{P < 0.05}$)^[5253]; cytotoxic (*in vitro*, A549, ED₅₀ = 16.3 μ g/mL, control Adriamycin, ED₅₀ = 0.0322 μ g/mL; MCF7, ED₅₀ = 9.3 μ g/mL, Adriamycin, ED₅₀ = 0.0204 μ g/mL; HT29, ED₅₀ = 3.5 μ g/mL, Adriamycin, ED₅₀ = 0.0421 μ g/mL; A498, ED₅₀ = 3.9 μ g/mL, Adriamycin, ED₅₀ = 0.00348 μ g/mL; PC3, ED₅₀ = 4.8 μ g/mL, Adriamycin, ED₅₀ = 0.241 μ g/mL; PACA-2, ED₅₀ = 2.2 μ g/mL, Adriamycin, ED₅₀ = 0.0120 μ g/mL)^[5253]. **Source:** BI BA *Piper longum*, HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HU JIAO *Piper nigrum* (root: yield = 0.00014%dw)^[4753], *Fagara xanthoxyloides*, *Stauranthus perforatus* (root). **Ref:** 6, 1521, 2537, 4753, 5253, 5385.

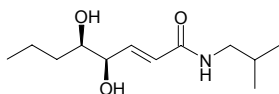


11270 N-Isobutyl-4,5-dihydroxy-2E-decaenamide

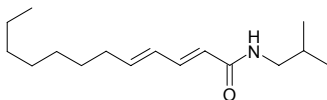
C₁₄H₂₇NO₃ (257.38). Source: HU JIAO *Piper nigrum* (root: yield = 0.0008%dw). Ref: 4753.

**11271 (±)-threo-N-Isobutyl-4,5-dihydroxy-2E-octaenamide**

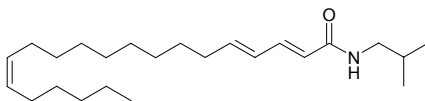
C₁₂H₂₃NO₃ (229.32). Colorless oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.3, \text{CHCl}_3$). Source: HU JIAO *Piper nigrum* (root: yield = 0.000043%dw). Ref: 4753.

**11272 N-Isobutyl-2E,4E-dodecadienamide**

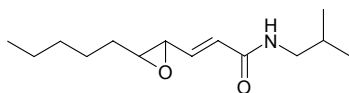
C₁₆H₂₉NO (251.42). Source: HU JIAO *Piper nigrum* (root: yield = 0.00031%dw). Ref: 4753.

**11273 N-Isobutyl-(2E,4E,14Z)-eicosatrienamide**

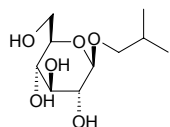
C₂₄H₄₃NO (361.62). Colorless oil. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (31.9±9.6)mm, control, length = (118.6±16.2)mm, InRt = 73.1%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (29.0±12.0)mm, control, length = (89.5±9.8)mm, InRt = 67.6%). Source: *Piper chaba* (fruit). Ref: 4935.

**11274 N-Isobutyl-4,5-epoxy-2E-decaenamide**

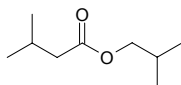
C₁₄H₂₅NO₂ (239.36). Source: HU JIAO *Piper nigrum* (root: yield = 0.00031%dw). Ref: 4753.

**11275 Isobutyl β-D-glucopyranoside**

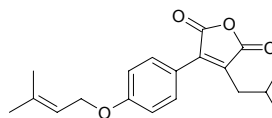
C₁₀H₂₀O₆ (236.27). Amorphous powder, $[\alpha]_D^{24} = -19^\circ$ ($c = 0.1, \text{MeOH}$). Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**11276 Isobutylisovalerate**

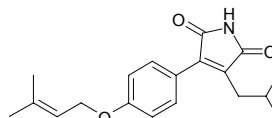
[589-59-3] C₉H₁₈O₂ (158.24). bp 170–172°C/757.5mmHg. Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 6.

**11277 3-Isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]furan-2,5-dione**

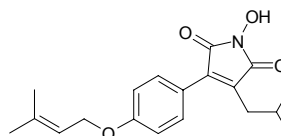
C₁₉H₂₂O₄ (314.38). Yellow oil. Pharm: Cytotoxic (*in vitro*, LLC cell line, ED₅₀ > 20μg/mL; control Adriamycin, ED = 0.14μg/mL). Source: *Antrodia camphorata* (fruit: yield = 0.0145%dw). Ref: 3003.

**11278 3-Isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]-1H-pyrrole-2,5-dione**

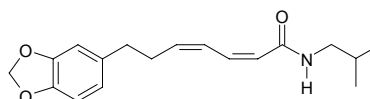
C₁₉H₂₃NO₃ (313.40). Yellow needles (*n*-hexane–EtOAc), mp 110–111°C. Pharm: Cytotoxic (*in vitro*, LLC cell line, ED₅₀ = 3.6μg/mL; control Adriamycin, ED = 0.14μg/mL). Source: *Antrodia camphorata* (fruit: yield = 0.0227%dw). Ref: 3003.

**11279 3-Isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]-1H-pyrrol-1-ol-2,5-dione**

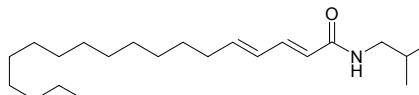
C₁₉H₂₃NO₄ (329.40). Yellow oil. Pharm: Cytotoxic (*in vitro*, LLC cell line, ED₅₀ = 7.6μg/mL; control Adriamycin, ED = 0.14μg/mL). Source: *Antrodia camphorata* (fruit: yield = 0.0243%dw). Ref: 3003.

**11280 (3Z,5Z)-N-Isobutyl-8-(3',4'-methylenedioxy-phenyl)-heptadienamide**

C₁₈H₂₃NO₃ (301.39). Amorphous solid. Pharm: Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0μg, control Nystatin, MIA = 0.5μg). Source: YING MAO HU JIAO *Piper hispidum* (stem). Ref: 5102.

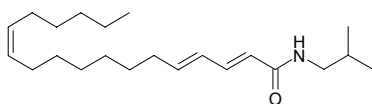
**11281 N-Isobutyl-(2E,4E)-octadecadienamide**

C₂₂H₄₁NO (335.58). Colorless oil. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (44.8±13.5)mm, control, length = (118.6±16.2)mm, InRt = 33.2%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (41.1±7.4)mm, control, length = (89.5±9.8)mm, InRt = 54.1%). Source: *Piper chaba* (fruit). Ref: 4935.

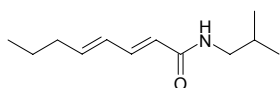


11282 N-Isobutyl-2E,4E,12Z-octadecatrienamide

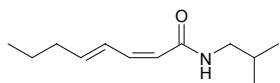
$C_{22}H_{39}NO$ (333.56). Source: HU JIAO *Piper nigrum* (root: yield = 0.00011%dw). Ref: 4753.

**11283 N-Isobutyl-(2E,4E)-octadienamide**

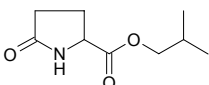
$C_{12}H_{21}NO$ (195.31). Source: HU JIAO *Piper nigrum* (root: yield = 0.00029%dw). Ref: 4753.

**11284 N-Isobutyl-(2Z,4E)-octa-2,4-dienamide**

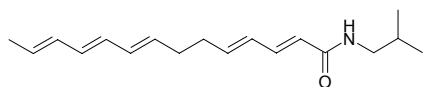
$C_{12}H_{21}NO$ (195.31). Source: *Fagara xanthoxyloides*. Ref: 5385.

**11285 Isobutyl pyroglutamate**

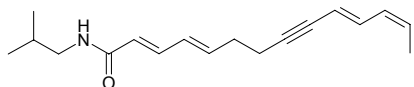
$C_9H_{15}NO_3$ (185.22). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

**11286 (2E,4E,8E,10E,12E)-N-Isobutyl-2,4,8,10,12-tetradecapentaenamide**

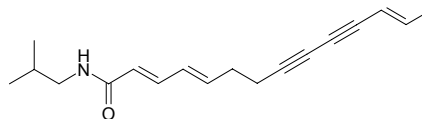
$C_{18}H_{27}NO$ (273.42). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

**11287 N-Isobutyl-2E,4E,10E,12Z-tetradecatetraen-8-ynamide**

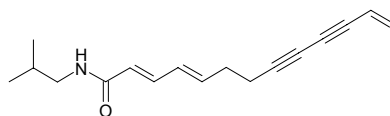
$C_{18}H_{25}NO$ (271.41). Colorless oil. Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (leaf and flower). Ref: 4725.

**11288 N-Isobutyl-2E,4E,12E-tetradecatrien-8,10-diynamide**

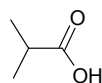
$C_{18}H_{23}NO$ (269.39). Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (leaf and flower). Ref: 4725.

**11289 N-Isobutyl-2E,4E,12Z-tetradecatrien-8,10-diynamide**

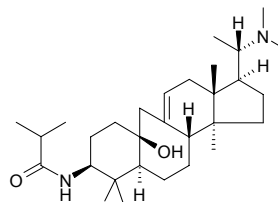
$C_{18}H_{23}NO$ (269.39). Colorless oil. Source: JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (leaf and flower). Ref: 4725.

**11290 Isobutyric acid**

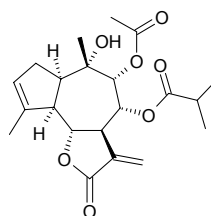
2-Methylpropanoic acid [79-31-2] $C_4H_8O_2$ (88.11). mp $-47^\circ C$, bp $154.3^\circ C$. Source: SANG YE *Morus alba*. Ref: 6.

**11291 N-Isobutyrylbuxahyrcanine**

$C_{30}H_{52}N_2O_2$ (472.76). Colorless amorphous powder, mp $234-235^\circ C$, $[\alpha]_D^{29} = +14^\circ$ ($c = 0.124$, $CHCl_3$). Pharm: AChE inhibitor (*in vitro*, $IC_{50} > 1000 \mu mol/L$; control Eserine, $IC_{50} = 0.041 \mu mol/L$); BChE inhibitor (*in vitro*, $IC_{50} = 53.7 \mu mol/L$; control Eserine, $IC_{50} = 0.0857 \mu mol/L$). Source: HE KA NI YA HUANG YANG *Buxus hyrcana* (leaf). Ref: 4694.

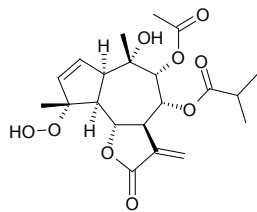
**11292 8-O-Isobutyryl-9a-acetoxycumambrin B**

$C_{21}H_{28}O_7$ (392.45). Amorphous solid, $[\alpha]_D^{25} = +21^\circ$ ($c = 0.16$, $CHCl_3$). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

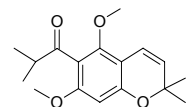


11293 8-O-Isobutyryl-9-O-acetylanthemolide B

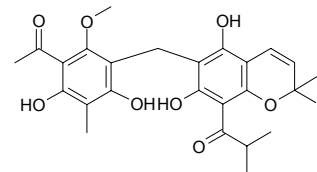
$C_{21}H_{28}O_9$ (424.45). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**11294 6-Isobutyryl-5,7-dimethoxy-2,2-dimethylbenzopyran**

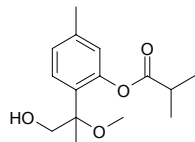
$C_{17}H_{22}O_4$ (290.36). Viscous oil. Source: *Hypericum polyanthemum* (aerial parts). Ref: 5168.

**11295 Isobutyrylmallotochromene**

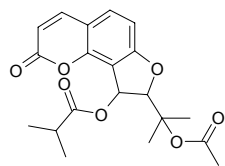
$C_{26}H_{30}O_8$ (470.52). Pharm: Antineoplastic; cytotoxic (KB); treatment of ulcer. Source: YE WU TONG *Mallotus japonicus*. Ref: 658.

**11296 3-O-Isobutyryl-8-methoxy-9-hydroxythymol**

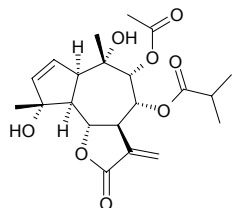
$C_{15}H_{22}O_4$ (266.34). $[\alpha]_D^{24} = 0^\circ$ ($c = 1.9$, $CHCl_3$). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**11297 3'-Isobutyryloxy-O-acetyl-2',3'-dihydro-oroselol**

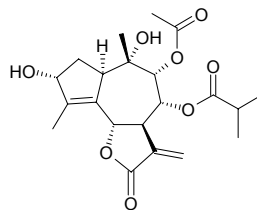
$C_{20}H_{22}O_7$ (374.39). mp 153~154°C. Source: SHE CHUANG ZI *Cnidium monnieri*. Ref: 6.

**11298 8α-Isobutyryloxyanthemolide A**

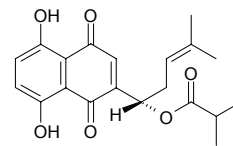
$C_{21}H_{28}O_8$ (408.45). Colorless gum, $[\alpha]_D^{25} = -13.6^\circ$ ($c = 0.11$, CH_2Cl_2). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**11299 8α-Isobutyryloxyanthemolide C**

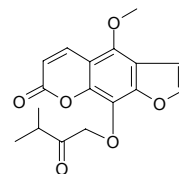
$C_{21}H_{28}O_8$ (408.45). Colorless gum, $[\alpha]_D^{25} = +51^\circ$ ($c = 0.14$, MeOH). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**11300 Isobutyryl shikonin**

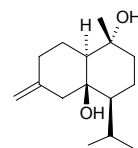
$C_{20}H_{22}O_6$ (358.39). mp 89~90°C. Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2, 6, 2193.

**11301 Isobyakangelicol**

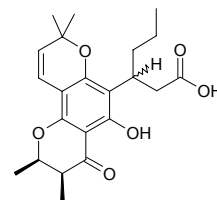
Anhydrobyakangelicin [35214-81-4] $C_{17}H_{16}O_6$ (316.31). mp 108~109°C. Source: HANG BAI ZHI *Angelica taiwaniana*. Ref: 2, 660.

**11302 Isocalamendiol**

[25330-21-6] $C_{15}H_{26}O_2$ (238.37). mp 72.5~73.5°C. Source: BAI CHANG *Acorus calamus*. Ref: 6.

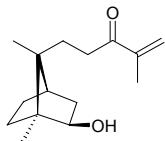
**11303 Isocalolongic acid**

$C_{22}H_{28}O_6$ (388.46). $[\alpha]_D^{25} = -13.9^\circ$. Pharm: Antifungal (*Aspergillus fumigatus*, $MIC_{80} = 2\mu g/mL$, control Amphotericin B, $MIC_{80} = 8\mu g/mL$). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (seed). Ref: 5489.

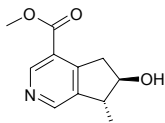


11304 Isocampheren-11-ene-10-one

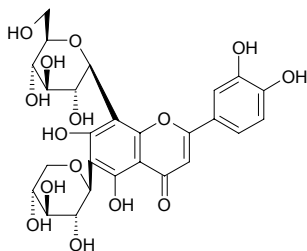
$C_{15}H_{24}O_2$ (236.36). Oil, $[\alpha]_D = -4.4^\circ$ ($c = 0.37$, $CHCl_3$). Source: DU AI BA JIAO *Illicium tsangii*. Ref: 1866.

**11305 Isocantleyine**

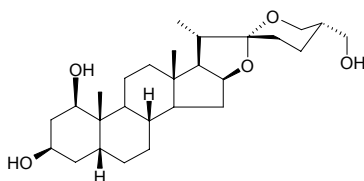
$C_{11}H_{13}NO_3$ (207.23). White feathery crystals, mp 124–125°C. Source: YIN XING CAO *Siphonostegia chinensis*. Ref: 217.

**11306 Isocarlinoside**

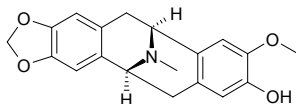
Luteolin 6-*C*- α -*L*-arabinopyranosyl-8-*C*- β -*D*-glucopyranoside $C_{26}H_{28}O_{15}$ (580.50). Source: ZI HUA DI DING *Viola yedoensis* (whole herb). Ref: 4393.

**11307 Isocarneagenin**

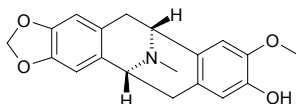
[17634-26-3] $C_{27}H_{44}O_5$ (448.65). Crystals, mp 242–244°C, $[\alpha]_D = -63.4^\circ$ ($c = 1.1$, MeOH/ $CHCl_3$). Source: JI XIANG CAO *Reineckea carnea*. Ref: 6.

**11308 (+)-Isocaryachine**

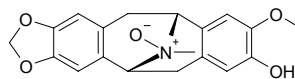
$C_{19}H_{19}NO_4$ (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**11309 (-)-Isocaryachine**

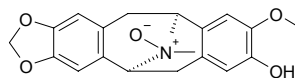
$C_{19}H_{19}NO_4$ (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**11310 (+)-Isocaryachine-N-oxide**

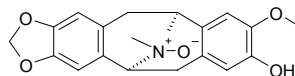
$C_{19}H_{19}NO_5$ (341.37). Colorless needles (acetone), mp >280°C, $[\alpha]_D = +72.60^\circ$ ($c = 0.073$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (stem cortex). Ref: 4160.

**11311 (-)-Isocaryachine-N-oxide**

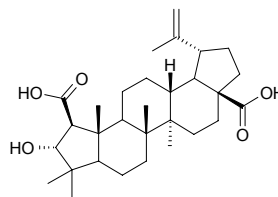
$C_{19}H_{19}NO_5$ (341.37). Colorless needles (acetone), mp >280°C, $[\alpha]_D = -245.08^\circ$ ($c = 0.1076$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (leaf). Ref: 4129.

**11312 (-)-Isocaryachine-N-oxide B**

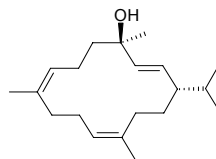
$C_{19}H_{19}NO_5$ (341.37). Colorless needles (acetone), mp >280°C, $[\alpha]_D = -26.2^\circ$ ($c = 0.2175$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (stem cortex). Ref: 4160.

**11313 Isoceanothic acid**

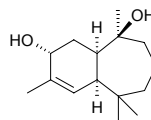
$C_{30}H_{46}O_5$ (486.70). Source: *Zizyphus xylopyrus*. Ref: 660.

**11314 Isocembrol**

[25269-17-4] $C_{20}H_{34}O$ (290.49). Oil, $[\alpha]_D = +74.4^\circ$ ($c = 0.3$, $CHCl_3$). Source: HAI SONG ZI *Pinus koraiensis*, XI BO LI YA HONG SONG *Pinus sibirica*, XI BO LI YA YUN SHAN *Picea obovata*. Ref: 6, 1521.

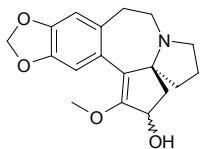
**11315 Isocentdarol**

$C_{15}H_{26}O_2$ (238.37). Source: XUE SONG *Cedrus deodara*. Ref: 660.

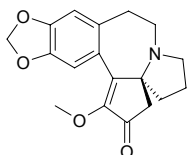


11316 Isocephalotaxine

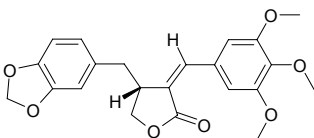
$C_{18}H_{21}NO_4$ (315.37). Amorphous solid, $[\alpha]_D^{21} = -47^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, nasopharynx KB cells, $IC_{50} = 15\mu g/mL$, weak activity). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00010%). **Ref:** 4675.

**11317 Isocephalotaxinone**

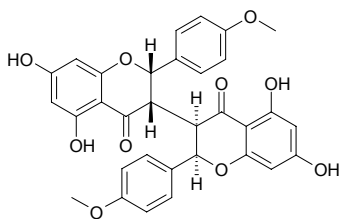
[50908-91-3] $C_{18}H_{19}NO_4$ (313.35). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2, 1521.

**11318 Isochaihulactone**

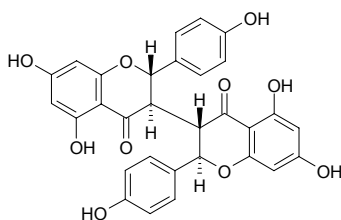
$C_{22}H_{22}O_7$ (398.42). White needle crystals, mp 137~138°C, $[\alpha]_D^{25} = -29.0^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** Cytotoxic (hmn peripheral blood T cells, dose = 2.0 $\mu g/mL$, T cell survival rate = 73%); immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0 $\mu g/mL$, InRt = 54%). **Source:** HONG CHAI HU *Bupleurum scorzonrifolium* (root). **Ref:** 3498.

**11319 Isochamaejasmenin B**

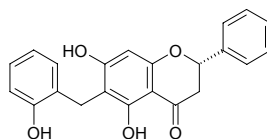
$C_{32}H_{26}O_{10}$ (570.56). Brown amorphous powder, $[\alpha]_D^{20} = +307^\circ$ ($c = 0.01$, MeOH). **Pharm:** Antimitotic and antifungal (*Pyricularia oryzae*, 50 $\mu g/mL$, middle inhibition, 100 $\mu g/mL$, complete inhibition). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4476.

**11320 Isochamaejasmin**

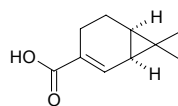
[93859-63-3] $C_{30}H_{22}O_{10}$ (542.50). Amorphous powder, $[\alpha]_D = 0^\circ$ ($c = 0.4$, methanol). **Pharm:** Inhibits promotor of cancer; prevents action of chemical carcinogens. **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 658, 953, 980, 1103.

**11321 Isochamanetin**

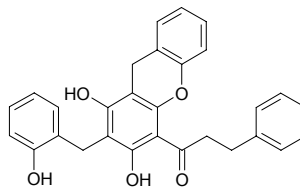
[58777-17-6] $C_{22}H_{18}O_5$ (362.39). mp 215~217°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 1.6 $\mu g/mL$; *Mycobacterium smegmatis*, MIC = 3.1 $\mu g/mL$; *Bacillus subtilis*, MIC = 6.3 $\mu g/mL$). **Source:** AN ZI YU PAN *Uvaria chamae*. **Ref:** 5, 658.

**11322 (-)-Isochaminic acid**

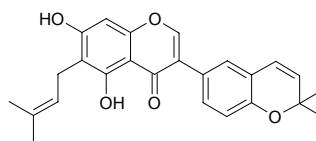
Isochamic acid $C_{10}H_{14}O_2$ (166.22). mp 60°C $[\alpha]_D^{25} = -10.2^\circ$ ($c = 1.3$, ether). **Pharm:** Antifungal (TLC bioautography method at very low concentration). **Source:** SI LI LAN KA TU MI SHU *Bridelia retusa*. **Ref:** 2021.

**11323 Isochamuaritin**

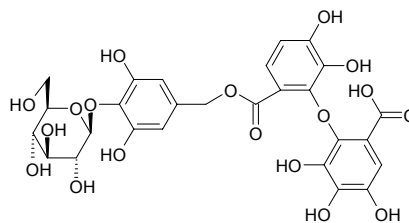
$C_{29}H_{24}O_5$ (452.51). White crystals, mp 157~159°C ($CHCl_3/Me_2CO$). **Pharm:** Cytotoxic (hmn promyelocytic leukemia HL-60 cells, $IC_{50} = 8.2\mu mol/L$). **Source:** JIAN ZI YU PAN *Uvaria acuminata* (root). **Ref:** 4261.

**11324 Isochandalone**

$C_{25}H_{24}O_5$ (404.47). **Pharm:** Antioxidant (DPPH scavenger, ScRt = 10.53%, control BHT, ScRt = 71.5%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 256 $\mu g/mL$, Vancomycin, MIC = 0.5 $\mu g/mL$; MRSA SK1, MIC > 256 $\mu g/mL$, Vancomycin, MIC = 1.0 $\mu g/mL$). **Source:** PAN YUAN YU TENG *Derris scandens* (stem). **Ref:** 3810.

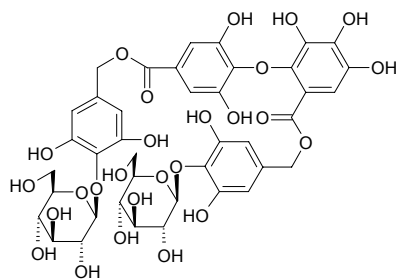
**11325 Isochesnatin**

$C_{27}H_{26}O_{18}$ (638.50). **Source:** LI YE *Pyrus bretschneideri*. **Ref:** 660.



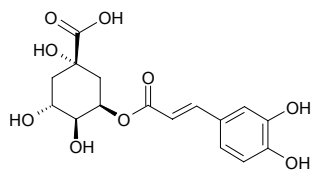
11326 Isochestanin

$C_{40}H_{42}O_{26}$ (938.77). Source: LI YE *Pyrus bretschneideri*. Ref: 660.

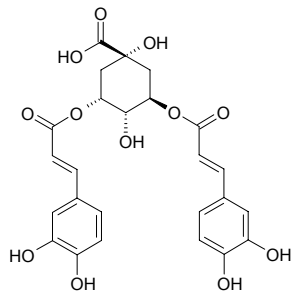
**11327 Isochlorogenic acid**

[534-61-2] $C_{16}H_{18}O_9$ (354.31). Pharm: Antibacterial; antioxidant (mus hepatic homogenate, inhibits *t*-BuOOH induced luminescence $IC_{50} = 30\mu\text{mol/L}$).

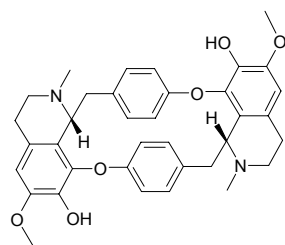
Source: JIN YIN HUA *Lonicera japonica*, SHI CHE JU *Centaurea cyanus*, CAI JI *Cynara scolymus*, YAO SHUI SU *Betonica officinalis*. Ref: 900.

**11328 Isochlorogenic acid A**

3,5-Di-*O*-caffeoylquinic acid $C_{25}H_{24}O_{12}$ (516.46). Source: JIN YIN HUA *Lonicera japonica* (flower bud: mean content = 2.50%)^[5508], XI ZHAN MAO REN DONG *Lonicera similis* (flower bud: mean content = 4.50%)^[5508], *Coffea* sp. Ref: 660, 5508.

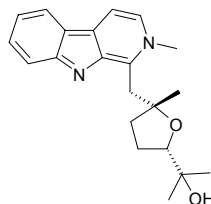
**11329 Isochondrodendrin**

$C_{36}H_{38}N_2O_6$ (594.71). mp 316°C (dec). Pharm: Muscle relaxant. Source: WA SHI DU HUO *Heracleum wallichii*, RU LAN *Stephania hernandifolia*, XI SHENG TENG *Cissampelos pareira*, YIN BU HUAN *Cyclea barbata*. Ref: 6, 658.

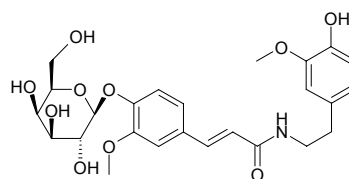
**11330 Isochrysotricine**

$C_{21}H_{26}N_2O_2$ (338.45). Yellow amorphous solids, $[\alpha]_D = -110^\circ$ ($c = 0.50$, MeOH).

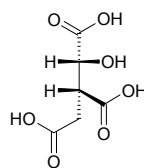
Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata*. Ref: 2424.

**11331 Isocimicifugamide**

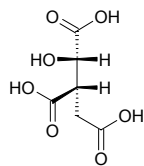
N-(3'-Methoxy-4'-hydroxyphenethyl)-4-*O*-β-*D*-galactopyranosyl-isoferulamid e $C_{25}H_{31}NO_{10}$ (505.53). White amorphous powder, mp 97~100°C, $[\alpha]_D^{20} = -46.2^\circ$ ($c = 0.13$, methanol). Source: XING AN SHENG MA *Cimicifuga dahurica*. Ref: 294.

**11332 Isocitric acid**

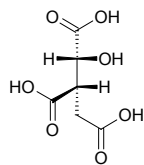
$C_6H_8O_7$ (192.13). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**11333 Isocitric acid b**

$C_6H_8O_7$ (192.13). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**11334 Isocitric acid c**

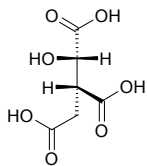
$C_6H_8O_7$ (192.13). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.



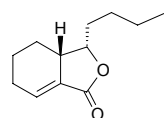
11335 Isocitric acid d

$C_6H_8O_7$ (192.13). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*].

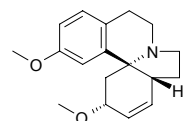
Ref: 2.

**11336 Isocnidilide**

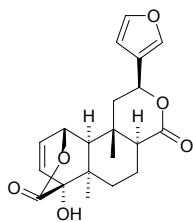
$C_{12}H_{18}O_2$ (194.28). Source: DANG GUI *Angelica sinensis*. Ref: 6.

**11337 Isococculidine**

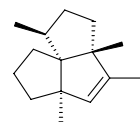
[60229-91-6] $C_{18}H_{23}NO_2$ (285.39). mp 95–96°C (benzene–hexane), $[\alpha]_D = +124^\circ$ ($c = 1.2$, methanol). Pharm: Neuromuscular blocker (rat, ia, 250 μ g); LD₅₀ (mus, ip) = 50mg/kg. Source: HENG ZHOU WU YAO *Cocculus laurifolius*. Ref: 661.

**11338 Isocolumbin**

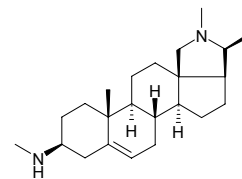
$C_{20}H_{22}O_6$ (358.39). Source: QING NIU DAN *Tinospora sagittata*. Ref: 660.

**11339 Isocomene**

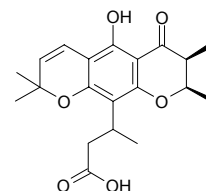
$C_{15}H_{24}$ (204.36). Pharm: Anti-Inflammatory (anti-oedema, control oedema = (7.8 \pm 0.3)mg, 100 μ g/cm² mixture with silphinene and modhephene, oedema = (4.9 \pm 0.4)mg, $p < 0.05$, reduction = 37%, Indomethacin oedema = (3.4 \pm 0.3)mg, $p < 0.05$, reduction = 56%). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985.

**11340 Isoconessimine**

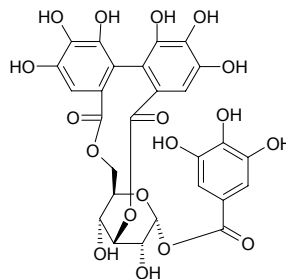
[468-36-0] $C_{23}H_{38}N_2$ (342.57). mp 92°C. Source: ZHI XIE MU PI *Holarhena antidysenterica*, TUI RE ZHI XIE MU *Holarhena febrifuga*, YAN MU *Wrightia tomentosa*. Ref: 6, 1521.

**11341 Isocordatooblongic acid**

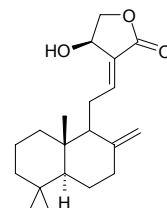
$C_{20}H_{24}O_6$ (360.41). Source: CHANG YUAN XIN XING HU TONG *Calophyllum cordato-oblongum*. Ref: 2280.

**11342 Isocorilagin**

$C_{27}H_{12}O_{18}$ (634.47). $[\alpha]_D^{20} = -53.6^\circ$ ($c = 0.11$, MeOH). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). Ref: 3975.

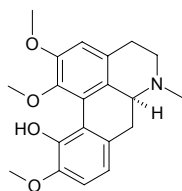
**11343 Isocoronarin D**

$C_{20}H_{30}O_3$ (318.46). Colorless lamellar crystals, mp 187–188°C. Source: YUAN BAN JIANG HUA *Hedychium forrestii* (root). Ref: 4886.

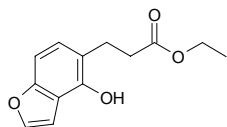


11344 Isocorydine

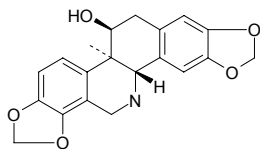
(+)-Isocorydine [475-67-2] C₂₀H₂₃NO₄ (341.41). mp 185~186°C. **Pharm:** Adrenergic antagonist; antiarrhythmic (animal model); increases coronary flow and cerebral blood flow; cytotoxic inactive (yeast assay: RS321NYCp50(gal), RS321NpRAD52(gal), RS321NpRAD52(glu))^[5457]; LD₅₀ (rat, ip) = 10.9mg/kg. **Source:** AO XIAN ZI JIN *Corydalis cava*, BAI XIAN SHU *Stephania brachyandra*, CHENG QIE ZI *Litsea cubeba*, DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem), JIAN YE SHI DA GONG LAO *Mahonia aquifolium*, KUAI JING ZI JIN *Corydalis tuberosa*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], NAN TIAN ZHU ZI *Nandina domestica*, SHEN HUANG ZI JIN *Corydalis lutea*, TAI WAN TANG SONG CAO *Thalictrum urbainii*, XIANG YING ZHAO *Artabotrys suaveolens*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], YOU GOU YING ZHAO *Artabotrys uncinatus* (root)^[3083]. **Ref:** 6, 658, 1521, 3083, 5457.

**11345 Isocorylifonol**

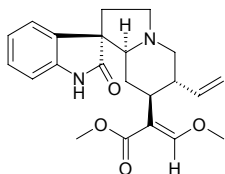
C₁₃H₁₄O₄ (234.25). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 660.

**11346 Isocorynoline**

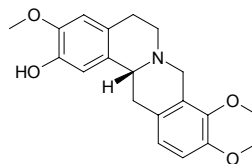
[51151-82-7] C₂₀H₁₉NO₅ (353.38). mp 234~235°C. **Source:** YUN QIAN HU *Peucedanum rubricaulae*, ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6, 436, 1521.

**11347 Isocorynoxine**

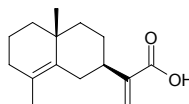
[51014-29-0] C₂₂H₂₆N₂O₄ (382.46). **Source:** CHANG HUA GOU TENG *Uncaria longiflora*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PO LUO ZHOU GOU TENG *Uncaria borneensis*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 2, 1521, 5341.

**11348 Isocorypalmine**

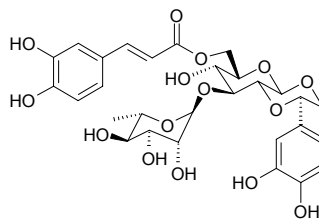
(-)-Tetrahydrocolumbamine; Casealutine [53447-14-6] C₂₀H₂₃NO₄ (341.41). mp (+) 239~241°C, (-) 241~242°C, (±) 221~222°C; mp 241~242°C, [α]_D²⁰ = -302.0 (c = 0.1, CHCl₃). **Pharm:** Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 125μg/mL, control Chlorhexidine gluconate, MIC = 1.25μg/mL; *Fusobacterium nucleatum*, MIC > 125μg/mL, Chlorhexidine gluconate, MIC = 2.5μg/mL)^[5418]. **Source:** AO XIAN ZI JIN *Corydalis cava*, BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root), YA PIAN *Papaver somniferum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 7 origins = 0.067%^[5508]). **Ref:** 2, 6, 660, 1521, 5418, 5508.

**11349 Isocostic acid**

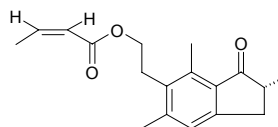
C₁₅H₂₂O₂ (234.34). **Source:** LIU LENG JU *Laggera alata* (aerial parts: yield = 0.0026%dw). **Ref:** 4709.

**11350 Isocrenatoside**

C₂₉H₃₄O₁₅ (622.59). **Pharm:** Antiviral inactive (Vero cell lines infected with HSV-2 strain 333, 250μg/mL); ACE inhibitor (1.0mg/mL, InRt = 99.3%; 0.1mg/mL, InRt = 71.4%; 0.01mg/mL, InRt = 35.2%; control Captopril, 0.01mg/mL, InRt = 97.7%). **Source:** NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00014%dw). **Ref:** 4752.

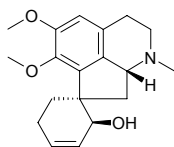
**11351 Isocrotonoylpterosin B**

C₁₈H₂₂O₃ (286.37). Oil, [α]_D = -3.5° (CHCl₃). **Source:** JUE *Pteridium aquilinum* var. *latiusculum*. **Ref:** 6, 1521.

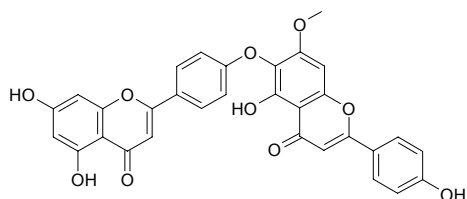


11352 Isocryprochine

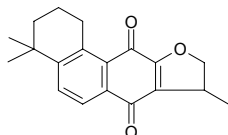
$C_{19}H_{25}NO_3$ (315.42). Colorless needles (acetone), mp 186–187°C, $[\alpha]_D = -22.2^\circ$ ($c = 0.0336$, MeOH). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**11353 Isocryptomerin**

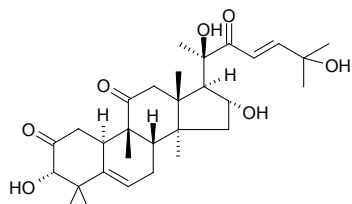
7"-Monomethylhinoliflavone [20931-58-2] $C_{31}H_{20}O_{10}$ (552.50). Yellowish rhombic crystals (methanol–pyridine), mp 308–310°C (dec). Pharm: Cytotoxic (*in vitro*, BC1 ED₅₀ = 1.5 μg/mL, HT1080 ED₅₀ = 0.6 μg/mL, Lu1 ED₅₀ = 0.9 μg/mL, Col2 ED₅₀ = 1.8 μg/mL, KB ED₅₀ = 1.6 μg/mL, KB-V+ ED₅₀ = 1.5 μg/mL, KB-V- ED₅₀ = 2.1 μg/mL, LNCaP ED₅₀ = 2.1 μg/mL, U373 ED₅₀ = 3.5 μg/mL, and ZR-75-1 ED₅₀ = 0.58 μg/mL). Source: JUAN BAI *Selaginella tamariscina*, RI BEN BIAN BAI *Chamaecyparis obtusa*, RI BEN HUA BAI *Chamaecyparis pisifera*. Ref: 6, 900, 1521.

**11354 Isocryptotanshinone**

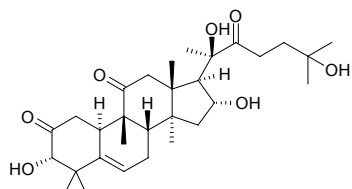
[22550-15-8] $C_{19}H_{20}O_3$ (296.37). mp 121°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2, 6.

**11355 Isocurbitacin D**

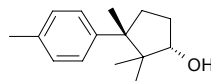
[68422-20-8] $C_{30}H_{44}O_7$ (516.68). mp 188–191 (ether), $[\alpha]_D = +37^\circ$ ($c = 0.8$, chloroform). Pharm: Cytotoxic (KB, ED₅₀ = 0.024 μg/mL). Source: XIN XI LAN MA *Phormium tenax*. Ref: 661.

**11356 Isocurbitacin R**

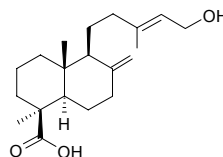
$C_{30}H_{48}O_7$ (518.70). White prisms (methanol), mp 187–190°C. Source: *Dendrosicyos socotrana* (stem). Ref: 3855.

**11357 α-Isocuparenenol**

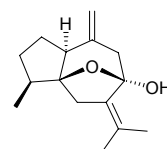
[21730-87-0] $C_{15}H_{22}O$ (218.34). mp 78.5°C. Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**11358 Isocupressic acid**

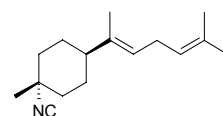
$C_{20}H_{32}O_3$ (320.48). Colorless oil, $[\alpha]_D^{25} = +43^\circ$ ($c = 0.27$, $CHCl_3$), $[\alpha]_D^{25} = +42^\circ$ ($c = 2.5$, $CHCl_3$); $[\alpha]_D^{25} = +51.0^\circ$ ($c = 0.90$, $CHCl_3$); $[\alpha]_D^{25} = +52.9^\circ$. Pharm: Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (33.5±1.7) μg/mL = (104.5±5.3) μmol/L)^[3022]; cytotoxic (EBV-EA inhibitor TPA-induced, mol ratio/TPA = 1000, InRt = 96.8%)^[5352]. Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], RI BEN XIANG BAI JING PI *Thuja standishii*. Ref: 3022, 5352.

**11359 Isocurcumenol**

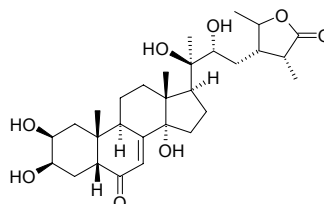
[24063-71-6] $C_{15}H_{22}O_2$ (234.34). mp 139–141°C. Pharm: NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (65.8±2.8)%, control *L*-NMMA, 100 μmol/L, InRt = (79.2±0.9)%, $p < 0.01$)^[4150]. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 6, 4150.

**11360 (E)-3-Isocyanobisabolane-7,10-diene**

$C_{16}H_{25}N$ (231.38). Colorless oil, $[\alpha]_D^{25} = 0.0^\circ$ ($c = 0.75$, $CHCl_3$). Source: Sponge *Axinyssa* sp. Ref: 4231.

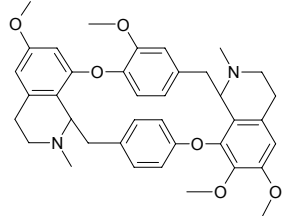
**11361 Isocyasterone**

[54082-42-7] $C_{29}H_{44}O_8$ (520.67). Source: MA NIU XI *Cyathula capitata*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). Ref: 6, 660, 4483.

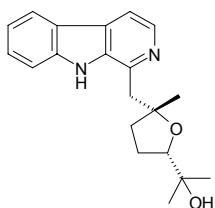


11362 Isocycleanine

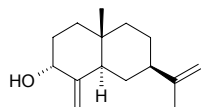
$C_{38}H_{42}N_2O_6$ (622.77). Colorless powder, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.10$, $CHCl_3$). Source: SI CHUAN LUN HUAN TENG *Cyclea sutchuenensis*. Ref: 274.

**11363 Isocyclocapitelline**

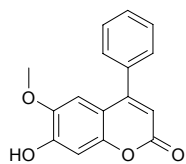
$C_{20}H_{24}N_2O_2$ (324.43). Yellow prisms, mp 199–200°C (acetone), $[\alpha]_D = -75^\circ$ ($c = 0.50$, $CHCl_3$). Source: XIAO TOU LIANG HOU CHA *Hedyotis capitellata*. Ref: 2424.

**11364 Isocyperol**

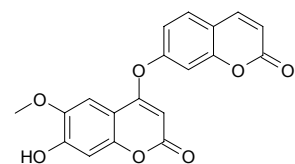
[20085-00-1] $C_{15}H_{24}O$ (220.36). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, $IC_{50} = 21 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 28 \mu\text{mol/L}$)^[4655]; β -hexosaminidase release inhibitor (RBL-2H3 Cells, $100 \mu\text{mol/L}$, $\text{InRt} = -28.9\%$; control Curcumin, $\text{InRt} = 62.6\%$)^[4655]. Source: XIANG FU *Cyperus rotundus*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0020%dw)^[4655]. Ref: 6, 1521, 4655.

**11365 Isodalbergin**

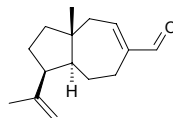
[605-09-4] $C_{16}H_{12}O_4$ (268.27). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 6.

**11366 Isodaphnoretin**

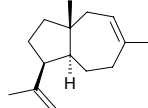
$C_{19}H_{12}O_7$ (352.30). Yellowish crystals, mp 246–248°C. Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4855.

**11367 Isodaucenal**

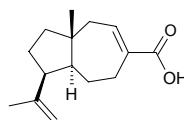
$C_{15}H_{22}O$ (218.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**11368 Isodaucene**

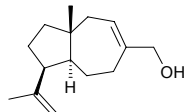
$C_{15}H_{24}$ (204.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**11369 Isodaucenoic acid**

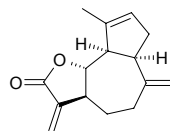
$C_{15}H_{22}O_2$ (234.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**11370 Isodaucenol**

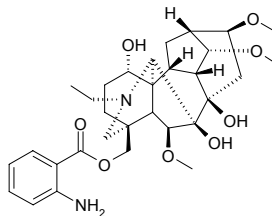
$C_{15}H_{24}O$ (220.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**11371 Isodehydrocostus lactone**

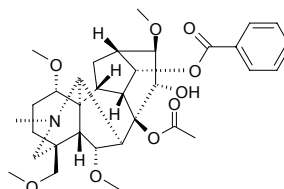
[68151-26-8] $C_{15}H_{18}O_2$ (230.31). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 2.

**11372 Isodelectine**

[133034-09-0] $C_{31}H_{44}N_2O_8$ (572.70). White amorphous powder. Source: E MEI CUI QUE HUA *Delphinium omeiense*. Ref: 2190, 1521.

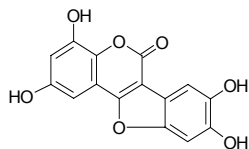
**11373 Isodelphinine**

$C_{33}H_{45}NO_9$ (599.73). Source: FU ZI *Aconitum carmichaeli*, WU TOU *Aconitum carmichaeli*. Ref: 660.

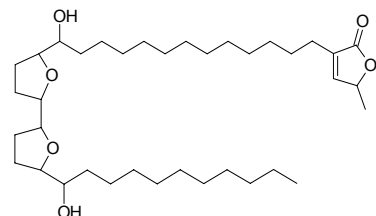


11374 Isodemethylwedelolactone

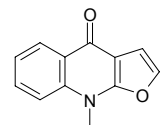
$C_{15}H_8O_7$ (300.23). Light gray amorphous powder, mp > 360°C (dec). Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. Ref: 865.

**11375 Isodesacetylvaricin**

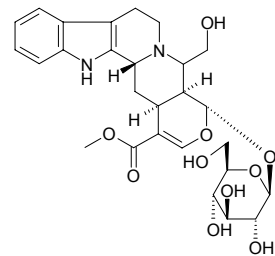
4-Deoxyasimicin [136033-39-1] $C_{37}H_{66}O_6$ (606.93). Lardaceous solid, mp > 30°C. Pharm: Cytotoxic (BST LD₅₀ = 0.201 μg/mL, A549 ED₅₀ = 0.000183 μg/mL, HT29 ED₅₀ < 0.0001 μg/mL). Source: DA HUA ZI YU PAN *Uvaria grandiflora*, NA ER ZI YU PAN *Uvaria narum*. Ref: 1027, 1082, 1171, 1202, 1521.

**11376 Isodictamine**

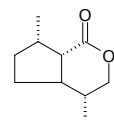
[484-74-2] $C_{12}H_9NO_2$ (199.21). Pharm: Phototoxic (yeast and bacteria). Source: BAI SE BAI XIAN *Dictamnus albus*. Ref: 658, 1521.

**11377 3β-Isodihydrocadambine**

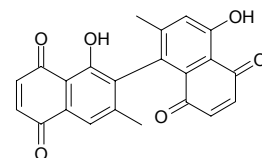
[62014-69-1] $C_{27}H_{34}N_2O_{10}$ (546.58). Pharm: Antihypertensive^[5341]. Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HUA GOU TENG *Uncaria sinensis*. Ref: 2, 5341.

**11378 Isodihydroepinepetalactone**

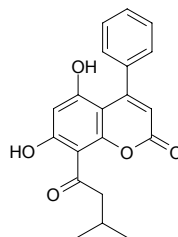
[17672-96-7] $C_{10}H_{16}O_2$ (168.24). Source: JIA JING JIE *Nepeta cataria*, MU TIAN LIAO *Actinidia polygama*. Ref: 6, 660, 1521.

**11379 Isodiospyrin**

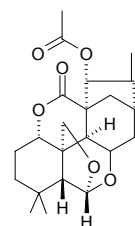
[20175-84-2] $C_{22}H_{14}O_6$ (374.35). mp 226–228°C. Pharm: Antifungal; cytotoxic; molluscicide (kills shellfish). Source: JUN QIAN ZI *Diospyros lotus*. Ref: 6, 658.

**11380 Isodispar B**

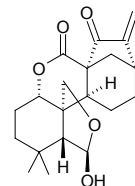
5,7-Dihydroxy-8-(2-methyl-1-oxobutyl)-4-phenyl-2H-[1]benzopyran-2-one $C_{20}H_{18}O_5$ (338.36). Pharm: Cytotoxic (KB, EC₅₀ = 8 μg/mL). Source: BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). Ref: 5196.

**11381 Isodoacetal**

$C_{22}H_{28}O_6$ (388.46). mp > 300°C, $[\alpha]_D^{17} = -134^\circ$ ($c = 1.0$, $CHCl_3$). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

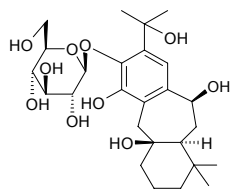
**11382 Isodocarpin**

[10391-08-9] $C_{20}H_{26}O_5$ (346.43). mp 270–273°C, $[\alpha]_D^{17} = -172^\circ$ ($c = 1.0$, $CHCl_3$). Source: HEI HUA YAN MING CAO *Isodon trichocarpus*, MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 1521, 4067.

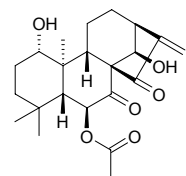


11383 Isodoforrestin

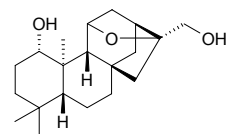
Abieferrestin C₂₆H₄₀O₁₀ (512.60). Amorphous substance, $[\alpha]_D^{24.7} = -25.05^\circ$ ($c = 0.29$, C₅H₅N). Source: ZI E XIANG CHA CAI *Isodon forrestii*. Ref: 2139, 4067.

**11384 Isodoglutinosin A**

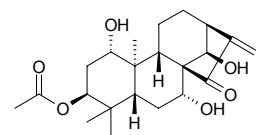
C₂₂H₃₀O₆ (390.48). mp 144~146°C. Source: JIAO NIAN XIANG CHA CAI *Isodon glutinosa*. Ref: 4067.

**11385 Isodoglutinosin B**

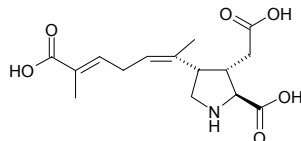
C₂₀H₃₂O₃ (320.48). mp 144~146°C. Source: JIAO NIAN XIANG CHA CAI *Isodon glutinosa*. Ref: 4067.

**11386 Isodomedin**

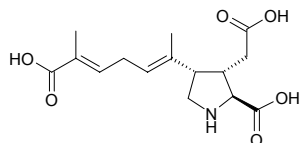
[39388-61-9] C₂₂H₃₂O₆ (392.50). mp 217~218°C, $[\alpha]_D = -59^\circ$ ($c = 1.0$, EtOH). Pharm: Antibacterial; cytotoxic; larvacide, insect antifeedant (larva of *Spodoptera exempta*). Source: JIAN XING SI GUO XIANG CHA CAI *Isodon shikokiana* var. *intermedius*. Ref: 658, 4067.

**11387 Isodomoic acid A**

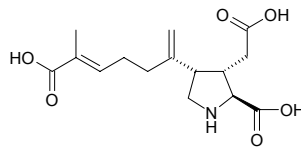
C₁₅H₂₁NO₆ (311.34). Source: RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. Ref: 660.

**11388 Isodomoic acid B**

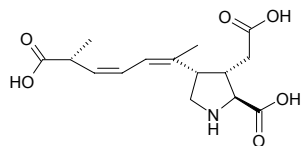
C₁₅H₂₁NO₆ (311.34). Source: RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. Ref: 660.

**11389 Isodomoic acid C**

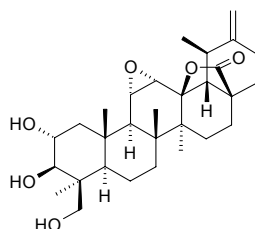
C₁₅H₂₁NO₆ (311.34). Source: RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. Ref: 660.

**11390 Isodomoic acid D**

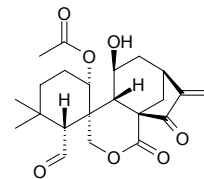
C₁₅H₂₁NO₆ (311.34). Source: RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. Ref: 660.

**11391 Isodonadenanthin**

C₃₀H₄₄O₆ (500.68). White amorphous powder. Source: XIAN HUA XIANG CHA CAI *Rabdosia adenantha*. Ref: 2260.

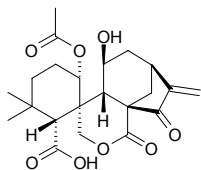
**11392 Isodonal**

[16964-56-0] C₂₂H₂₈O₇ (404.46). mp 245~247°C (dec); mp 219~221°C, $[\alpha]_D^{25} = +102.7^\circ$ ($c = 0.3$, C₅H₅N). Pharm: Cytotoxic (K562, IC₅₀ = 2.29 μmol/L, control Cisplatin IC₅₀ = 3.84 μmol/L; Bcap37, IC₅₀ = 28.64 μmol/L, control Cisplatin IC₅₀ = 1.54 μmol/L; BGC823, IC₅₀ = 79.87 μmol/L, control Cisplatin IC₅₀ = 2.54 μmol/L; CA, IC₅₀ = 9.04 μmol/L, control Cisplatin IC₅₀ = 0.88 μmol/L; HeLa, IC₅₀ > 100 μmol/L, control Cisplatin IC₅₀ = 3.60 μmol/L)^[4353]; cytotoxic (liver cancer cells, *in vitro*); antibacterial (*Bacillus subtilis*, *Bacillus coli* and *Staphylococcus aureus*, EC = 1 : 10000). Source: DA YE XIANG CHA CAI *Rabdosia macrophylla*, LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 5, 658, 4067, 4353.

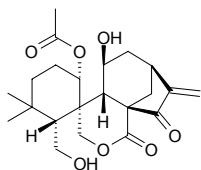


11393 Isodonoic acid

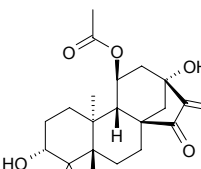
$C_{22}H_{28}O_8$ (420.46). mp 291~294°C, $[\alpha]_D^{25} = +42.6^\circ$ ($c = 0.09$, MeOH). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

**11394 Isodonoiol**

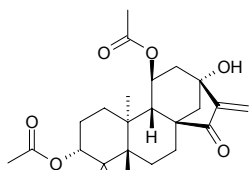
Rabdosin C; Rabdophyllin G $C_{22}H_{30}O_7$ (406.48). mp 271.8~272.3°C, $[\alpha]_D^{25} = +98.6^\circ$ ($c = 0.57$, C_5H_5N). Pharm: Cytotoxic (K562, $IC_{50} = 10.15 \mu\text{mol/L}$, control Cisplatin $IC_{50} = 3.84 \mu\text{mol/L}$; Bcap37, $IC_{50} = 101.32 \mu\text{mol/L}$, control Cisplatin $IC_{50} = 1.54 \mu\text{mol/L}$)^[4353]. Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*, MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067, 4353.

**11395 Isodopharicin A**

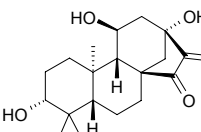
$C_{22}H_{32}O_5$ (376.50). mp 213~215°C, $[\alpha]_D^{28} = -154^\circ$ ($c = 0.5$, EtOH). Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**11396 Isodopharicin B**

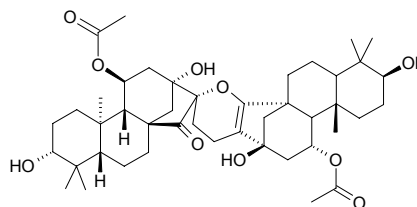
$C_{24}H_{34}O_6$ (418.53). mp 266~268°C, $[\alpha]_D^{16} = -190^\circ$ ($c = 0.5$, EtOH). Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**11397 Isodopharicin D**

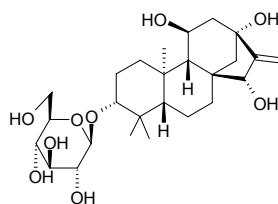
3 α ,11 β ,13 α -Trihydroxy-entkaur-16-en-15-one $C_{20}H_{30}O_4$ (334.46). White crystals, mp 245~247°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 405, 4067.

**11398 Isodopharicin E**

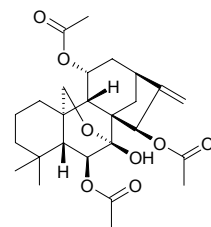
$C_{44}H_{64}O_{10}$ (752.99). mp 240~241°C, $[\alpha]_D = -144^\circ$ ($c = 0.25$, EtOH). Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**11399 Isodopharicin F**

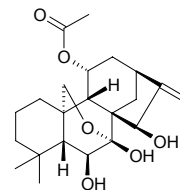
11 β ,13 α ,15 α -Trihydroxy-entkaur-16-en-3 α - β -D-glucoside $C_{26}H_{42}O_9$ (498.62). White crystals, mp 252~254°C, mp 254~256°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 405, 4067.

**11400 Isodoternifolin A**

β ,11 α ,15 β -Triacetoxo-7 β -hydroxy-7 α ,20-epoxy-entkaur-16-ene $C_{26}H_{36}O_8$ (476.57). Colorless acicular crystals, mp 249~251°C, $[\alpha]_D^{20} = -122.9^\circ$ (chloroform). Source: CHONG YA YAO *Isodon ternifolius*, NIU WEI CAO *Isodon ternifolia*. Ref: 367, 4067.

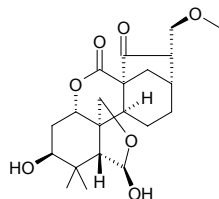
**11401 Isodoternifolin B**

11 α -Acetoxo-6 β ,7 β ,15 β -trihydroxy-7 α ,20-epoxy-entkaur-16-ene $C_{22}H_{32}O_6$ (392.50). Colorless prismatic crystals, mp 236~238°C (chloroform). Source: CHONG YA YAO *Isodon ternifolius*, NIU WEI CAO *Isodon ternifolia*. Ref: 367, 4067.

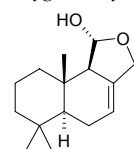


11402 Isodotricin

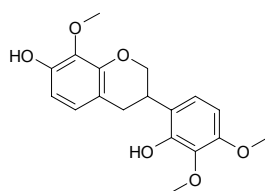
$C_{21}H_{30}O_7$ (394.47). mp 240~245°C, $[\alpha]_D^{17} = -114^\circ$ ($c = 1.0$, C_5H_5N). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

**11403 Isodrimeninol**

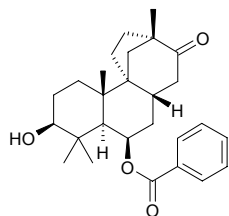
$C_{15}H_{24}O_2$ (236.36). Source: LIAO SHI *Polygonum hydropiper*, SHUI LIAO *Polygonum hydropiper*. Ref: 660.

**11404 Isoduartin**

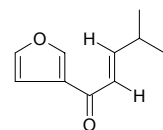
$C_{18}H_{20}O_6$ (332.36). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 660.

**11405 Isodulcinol**

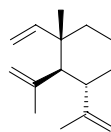
$C_{27}H_{36}O_4$ (424.59). Gum, $[\alpha]_D^{25} = -21.4^\circ$ ($c = 0.45$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, SCL, $ED_{50} = 19.5\mu\text{mol/L}$; SCL-6, $ED_{50} = 62.9\mu\text{mol/L}$; SCL-37'6, $ED_{50} = 45.8\mu\text{mol/L}$; SCL-9, $ED_{50} = 58.9\mu\text{mol/L}$; Kato3, $ED_{50} = 71.7\mu\text{mol/L}$; NUGC-4, $ED_{50} = 122.9\mu\text{mol/L}$; control Vinblastine Sulfate: SCL, $ED_{50} = 5.9\mu\text{mol/L}$; SCL-6, $ED_{50} = 6.1\mu\text{mol/L}$; SCL-37'6, $ED_{50} = 5.3\mu\text{mol/L}$; SCL-9, $ED_{50} = 5.3\mu\text{mol/L}$; Kato3, $ED_{50} = 6.1\mu\text{mol/L}$; NUGC-4, $ED_{50} = 5.3\mu\text{mol/L}$). Source: YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00138%dw). Ref: 4703.

**11406 Isoegomaketone**

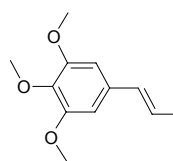
[34348-59-9] $C_{10}H_{12}O_2$ (164.21). mp 179~180°C. Source: JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 2, 660.

**11407 (-)-(5S,6S,10S)-Iso-β-elemene**

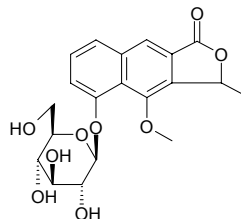
(-)-(1S,2S,3S)-1-Ethenyl-1-methyl-2,3-di(1-methylethenyl)-cyclohexane $C_{15}H_{24}$ (204.36). Colorless oil. Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**11408 trans-Isoelemicin**

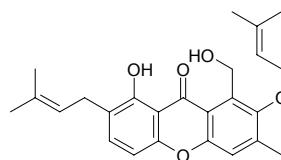
trans-Isoelemicine [5273-85-8] $C_{12}H_{16}O_3$ (208.26). bp 153~156°C/10mmHg. Pharm: Antifungal (*Cladosporium cucumerinum*); hypnotic (strong action); larvacide (*Stegomyia calopus*). Source: BAI CHANG *Acorus calamus*, YE XIANG MAO *Cymbopogon goeringii*, ROU DOU KOU *Myristica fragrans*. Ref: 6, 900, 1521.

**11409 Isoeuletherol glucoside**

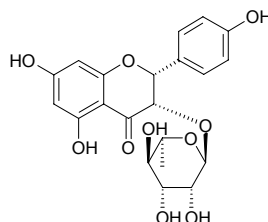
$C_{20}H_{22}O_9$ (406.39). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. Ref: 2.

**11410 Isoemicellin**

$C_{25}H_{28}O_5$ (408.50). Source: BIAN SE HE KE BAO *Emericella varicolor*. Ref: 3386.

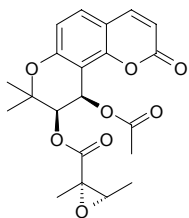
**11411 Isoengelitin**

[30987-58-7] $C_{21}H_{22}O_{10}$ (434.40). mp 295~296°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], TU FU LING *Smilax glabra*. Ref: 6, 568, 1521.

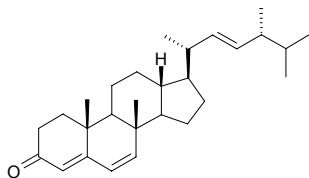


11412 Isoepoxypteryxin

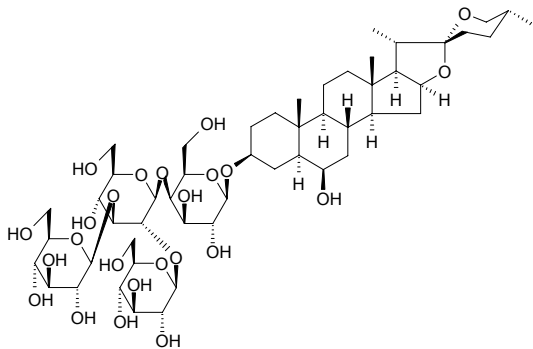
$C_{21}H_{22}O_8$ (402.40). **Pharm:** NO Production inhibitor (LPS-activated mouse peritoneal macrophages, $IC_{50} = 53\mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 28\mu\text{mol/L}$). **Source:** FEN CHA DANG GUI *Angelica furcijuga* (flower). **Ref:** 4454.

**11413 Isoergosterone**

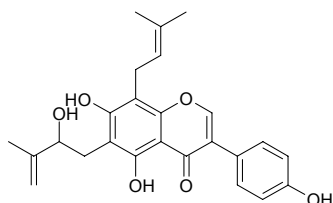
$C_{28}H_{42}O$ (394.65). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp; yield = 0.00046%dw). **Ref:** 4747.

**11414 Isoerubioside B**

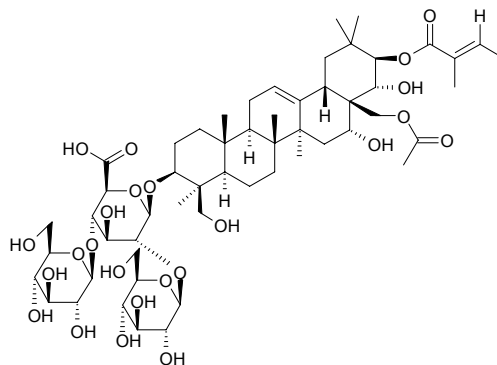
[186545-52-8] $C_{51}H_{84}O_{24}$ (1081.22). White acicular crystals, mp 310~312°C, $[\alpha]_D^{20} = -32.8^\circ$ ($c = 1.0$, C_3H_5N). **Pharm:** Enhances fibrinolytic activity; platelet aggregation inhibitor; anticoagulant (extends time of coagulation). **Source:** DA SUAN *Allium sativum*. **Ref:** 362, 658.

**11415 Isoerysenegalensein E**

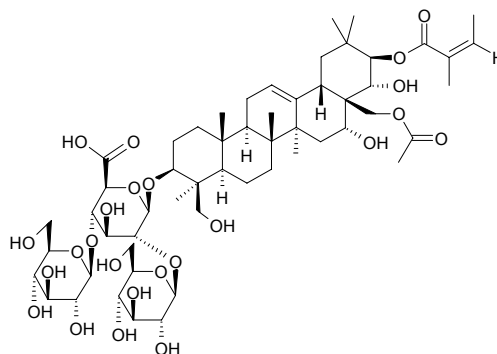
5,7,4'-Trihydroxy-8-(3''-methylbut-2''-enyl)-6-(2''-hydroxy-3''-methylbut-3''-enyl) isoflavone $C_{25}H_{26}O_6$ (422.48). Yellow crystals ($CHCl_3$), mp 155~156°C. **Source:** AI JI ZAI PEI CI TONG *Erythrina lysistemon*. **Ref:** 1971.

**11416 Isoescsin Ia**

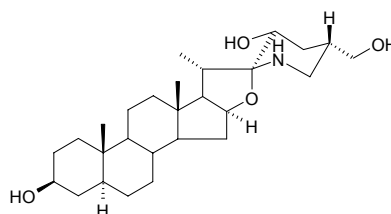
21-*O*-Tigloyl-28-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1→2)]-[β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{55}H_{86}O_{24}$ (1131.28). **Pharm:** Anti-inflammatory (mus, assay of Dimethyl benzene-induced inflammation, dose 30mg/kg, InRt = 78.8%, control Dexamethasone, dose 1mg/kg, InRt = 55.6%). **Source:** QI YE SHU *Aesculus chinensis* (seeds). **Ref:** 2578.

**11417 Isoescsin Ib**

21-*O*-Angeloyl-28-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1→2)]-[β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranosiduronic acid $C_{55}H_{86}O_{24}$ (1131.28). **Pharm:** Anti-inflammatory (mus, assay of Dimethyl benzene-induced inflammation, dose 30mg/kg, InRt = 67.3%, control Dexamethasone, dose 1mg/kg, InRt = 55.6%). **Source:** QI YE SHU *Aesculus chinensis* (seeds). **Ref:** 2578.

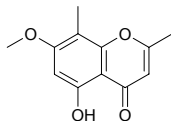
**11418 Isoesculeogenin A**

(5 α ,22*R*,23*R*,25*S*)-3 β ,23,27-Trihydroxyspirosolane $C_{27}H_{45}NO_4$ (447.66). Colorless needles, mp 206~213°C, $[\alpha]_D = -87.2^\circ$ ($c = 0.64$, pyridine). **Source:** FAN QIE *Lycopersicon esculentum*. **Ref:** 4484.

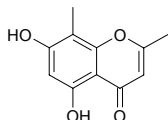


11419 Isoeugenitin

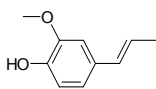
$C_{12}H_{12}O_4$ (220.23). Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. Ref: 660.

**11420 Isoeugenitol**

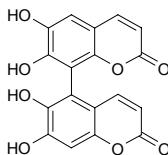
[479-06-1] $C_{11}H_{10}O_4$ (206.20). mp 229~230°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. Ref: 6.

**11421 Isoeugenol**

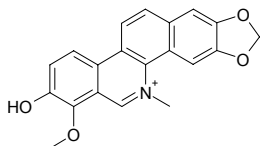
2-Methoxy-4-propenyl phenol [97-54-1] $C_{10}H_{12}O_2$ (164.21). bp (*cis*-) 134~135°C/13mmHg, mp (*trans*-) 33~34°C, bp (*trans*-) 141~142°C/13mmHg. Pharm: Platelet aggregation inhibitor (rbt). Source: DANG GUI *Angelica sinensis*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], LUO JI SHAN YUAN BAI *Juniperus scopulorum*, ROU DOU KOU *Myristica fragrans*, SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*], XI YANG SHEN *Panax quinquefolium*, YI LAN *Cananga odorata*. Ref: 2, 6, 658, 660, 1439.

**11422 Isoeuphorbin**

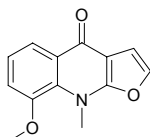
$C_{18}H_{10}O_8$ (354.28). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 660.

**11423 Isofagaridine**

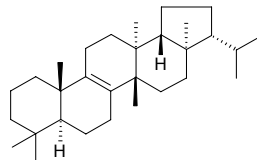
$C_{20}H_{16}NO_4^+$ (334.35). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: RU DI JIN NIU *Zanthoxylum nitidum*, *Zanthoxylum* sp. Ref: 660, 2176.

**11424 Iso-γ-fagarine**

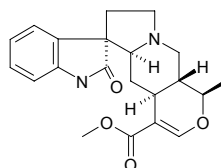
$C_{13}H_{11}NO_3$ (229.24). Colorless needles (Me₂CO), mp 160~161°C. Source: XIA YE BAI XIAN *Dictamnus angustifolius*. Ref: 1912.

**11425 Isofernene**

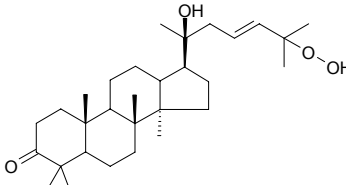
[1750-35-2] $C_{30}H_{50}$ (410.73). mp 189~190°C. Source: TIE SI QI *Adiantum pedatum*. Ref: 6.

**11426 Isoformosanine**

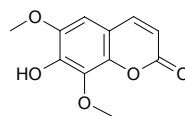
Uncarine A $C_{21}H_{24}N_2O_4$ (368.44). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 660.

**11427 Isofouquierone peroxide**

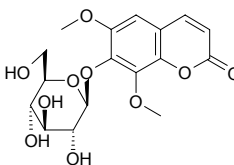
$C_{30}H_{50}O_4$ (474.73). White powder, $[\alpha]_D^{25} = +35^\circ$ ($c = 0.29$, CHCl₃). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (stem cortex). Ref: 4111.

**11428 Isofraxidin**

6,8-Dimethoxy-7-hydroxycoumarin [486-21-5] $C_{11}H_{10}O_5$ (222.20). mp 148~149°C. Pharm: Antineoplastic (mus vaccinal S₁₈₀, *in vivo*); choleric (rat); cytotoxic (P₃₈₈ *in vitro*, ED₅₀ = 1.7 μg/mL). Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (root and rhizome: content = 0.011%^[5508]), DA JI⁽³⁾ *Euphorbia pekinensis*, HUANG HUA HAO *Artemisia annua*, HUI SE OU SHI NAN *Erica cinerea*, JIU JIE CHA *Sarcandra glabra* [Syn. *Chloranthus glaber*] (dried whole herb: content scope of 8 origins = 0.022%~0.088%, mean content = 0.056%^[5508]), *Fraxinus* sp. Ref: 2, 5, 658, 660, 5508.

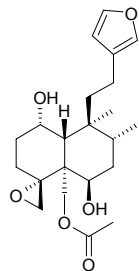
**11429 Isofraxidin glucoside**

$C_{17}H_{20}O_{10}$ (384.34). Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 2.

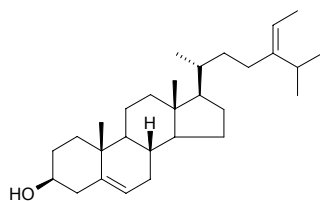


11430 Isofruticolone

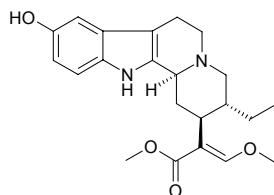
$C_{22}H_{32}O_6$ (392.50). **Pharm:** Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = $10\mu\text{g}/\text{cm}^2$, $\text{FR}_{50} = 0.78 \pm 0.11$). **Source:** GUAN CONG XIANG KE KE *Teucrium fruticans*. **Ref:** 3761.

**11431 Isofucosterol**

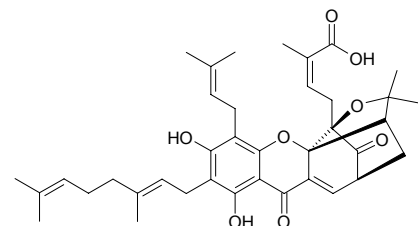
28-Isofucosterol $C_{29}H_{48}O$ (412.71). mp $133\sim 135^\circ\text{C}$. **Source:** SHI CHUN *Ulva lactuca*, KONG SHI CHUN *Ulva pertusa*. **Ref:** 6, 660.

**11432 Isogambirine**

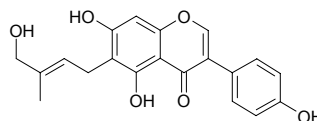
$C_{22}H_{28}N_2O_4$ (384.48). **Source:** HOU YE GOU TENG *Uncaria callophylla*. **Ref:** 5341.

**11433 Isogambogenic acid**

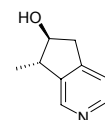
$C_{38}H_{46}O_8$ (630.79). Bright yellow amorphous powder, $[\alpha]_D^{20} = -488^\circ$, ($c = 0.290$, CHCl_3). **Pharm:** Cytotoxic (hmn leukemia: doxorubicin-resistant K562, $\text{IC}_{50} = (2.86 \pm 0.16)\mu\text{g}/\text{mL}$, control Adriamycin, $\text{IC}_{50} = (1.79 \pm 0.17)\mu\text{g}/\text{mL}$; drug-sensitive K562, $\text{IC}_{50} = (2.10 \pm 0.14)\mu\text{g}/\text{mL}$, Adriamycin, $\text{IC}_{50} = (0.11 \pm 0.01)\mu\text{g}/\text{mL}$). **Source:** TENG HUANG SHU *Garcinia hanburyi* (resin). **Ref:** 1583.

**11434 Isogancaonin C**

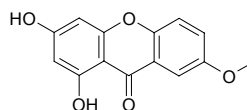
5,7,4'-Trihydroxy-6-[1-hydroxy-2-methylbuten-2-yl]isoflavone $C_{20}H_{18}O_6$ (354.36). Creamy solid, mp $259\sim 260^\circ\text{C}$. **Pharm:** Antibacterial (*Escherichia coli*, MIA = $0.10\mu\text{g}$, control Chloramphenicol, MIA = $0.001\mu\text{g}$; *Bacillus subtilis*, MIA = $0.05\mu\text{g}$, Chloramphenicol, MIA = $0.001\mu\text{g}$; *Staphylococcus aureus*, MIA = $0.05\mu\text{g}$, Chloramphenicol, MIA = $0.001\mu\text{g}$); antifungal (*Candida mycoderma*, MIA = $0.05\mu\text{g}$, Miconazole, MIA = $0.0001\mu\text{g}$); antioxidant (DPPH scavenger, TLC detection limit = $0.5\mu\text{g}$, $\text{IC}_{50} = 650\mu\text{g}/\text{mL}$; control Quercetin, TLC detection limit $< 0.05\mu\text{g}$, $\text{IC}_{50} = 7\mu\text{g}/\text{mL}$; Gallic acid, TLC detection limit $< 0.05\mu\text{g}$, $\text{IC}_{50} = 4\mu\text{g}/\text{mL}$; Ascorbic acid, TLC detection limit $< 0.10\mu\text{g}$, $\text{IC}_{50} = 18\mu\text{g}/\text{mL}$). **Source:** *Bolusanthus speciosus* (root wood). **Ref:** 3785.

**11435 Isogentialutine**

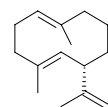
$C_9H_{11}NO$ (149.19). **Source:** XI ZANG QIN JIAO *Gentiana tibetica*. **Ref:** 660.

**11436 Isogentisin**

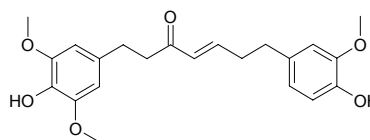
[491-64-5] $C_{14}H_{10}O_5$ (258.23). **Pharm:** Monoamine oxidase inhibitor; mutagen (*Salmonella typhimurium*). **Source:** HUANG LONG DAN *Gentiana lutea*, QI RUI TA ZHANG YA CAI *Swertia chirata*. **Ref:** 658.

**11437 (+)-(S)-Isogermaacrene A**

(+)-(S)-1,5-Dimethyl-7-(1-methylethenyl)-cyclodeca-1E,5E-diene $C_{15}H_{24}$ (204.36). Colorless oil. **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

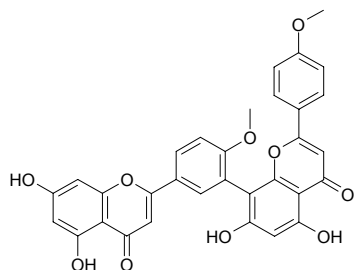
**11438 Isogingerenone B**

[128700-99-2] $C_{22}H_{26}O_6$ (386.45). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

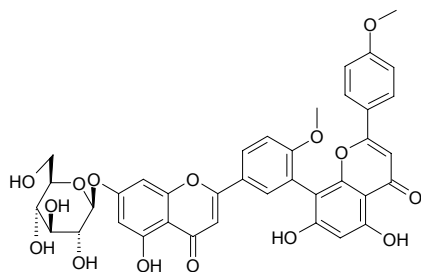


11439 Isoginkgetin

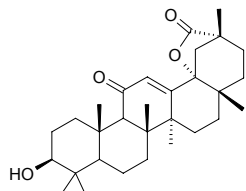
[548-19-6] C₃₂H₂₂O₁₀ (566.53). Yellow powder, mp 210°C. Source: BAI GUO YE *Ginkgo biloba* (leaf: mean content = 2.29%^[5508]); the compound was isolated from the plant by Kôichi Nakazawa in 1959)^[5505], CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 6, 442, 5505, 5508.

**11440 Isoginkgetin-7-O-β-D-glucopyranoside**

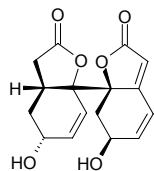
C₃₈H₃₂O₁₅ (728.67). Yellow amorphous powder, [α]_D²⁰ = +0.77° (c = 0.003, MeOH). Source: BAI GUO YE *Ginkgo biloba*. Ref: 4512.

**11441 Isoglabrolide**

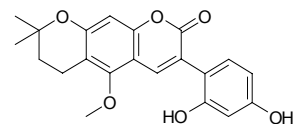
C₃₀H₄₄O₄ (468.68). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 660.

**11442 Isoglochidiolide**

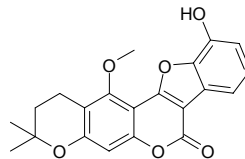
C₁₆H₁₆O₆ (304.30). Off-white syrup, [α]_D²³ = +26.6° (c = 2.33, MeOH). Source: JIAN JIAN SUAN PAN ZI *Glochidion acuminatum* (leaf). Ref: 4286.

**11443 Isoglycycoumarin**

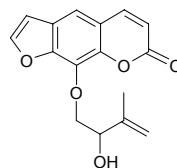
C₂₁H₂₀O₆ (368.39). Source: CU MAO GAN CAO *Glycyrrhiza aspera*. Ref: 660.

**11444 Isoglycyrol**

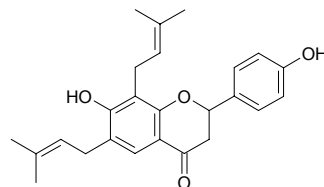
[23013-86-7] C₂₁H₁₈O₆ (366.37). mp 298~300°C (dec). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis*. Ref: 660, 1521.

**11445 Isogosferol**

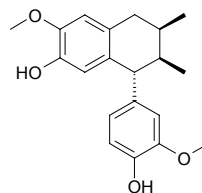
[53319-52-1] C₁₆H₁₄O₅ (286.29). mp 76~78°C. Source: YUN NAN QIANG HUO *Pleurospermum rivulorum*. Ref: 551.

**11446 Isograbrol**

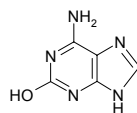
C₂₅H₂₈O₄ (392.50). Source: *Glycyrrhiza* sp. Ref: 2431.

**11447 (-)-Isoguaiacin**

C₂₀H₂₄O₄ (328.41). Pharm: Neuroprotective (glutamate-induced neurotoxicity in primary cultures of cortical cells, 0.1 μmol/L, protection rate = (33.6±2.7)%, p<0.05, MK-801: 1.0 μmol/L, protection rate = (83.6±2.0)%, p<0.001, CNQX: 1.0 μmol/L, protection rate = (70.5±1.5)%, p<0.001). Source: HONG NAN PI *Machilus thunbergii*. Ref: 4927.

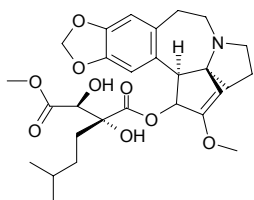
**11448 Isoguanine**

C₅H₅N₅O (151.13). Source: BA DOU *Croton tiglium*. Ref: 660.

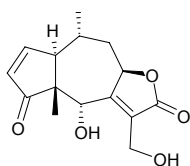


11449 Isoharringtonine

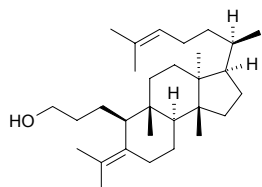
[26833-86-3] $C_{28}H_{37}NO_9$ (531.61). **Pharm:** Antineoplastic (mus L_{1210} , 7.5mg/kg ip, biotic prolonged rate = 26%, P_{388} , biotic prolonged rate = 172%). **Source:** HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manii*] (branchlet and bark: mean content of 2 samples = 0.14%^[5508]), RI BEN CU FEI *Cephalotaxus harringtonia*, SAN JIAN SHAN *Cephalotaxus fortunei* (branchlet and bark: mean content of 2 origins = 0.0027%^[5508]), SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.00018%^[4675]), TAI WAN CU FEI *Cephalotaxus wilsoniana*, ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*], ZHONG GUO CU FEI ZI *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. **Ref:** 5, 658, 660, 1521, 4675, 5508.

**11450 Isohelenol**

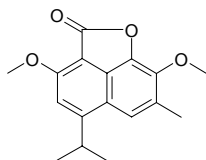
$C_{15}H_{18}O_5$ (278.31). Crystals (chloroform-methanol), mp 190~192°C. **Pharm:** Antineoplastic (mus P_{388} *in vivo*, biotic prolonged rate = 33%). **Source:** XIAO TOU DUI XIN JU *Helenium microcephalum*. **Ref:** 661.

**11451 Isohelianol**

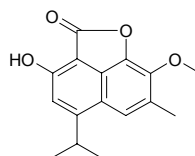
$C_{30}H_{52}O$ (428.75). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA=100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** HUO YANG LE *Euphorbia antiquorum* (latex). **Ref:** 4606.

**11452 Isohemigossylic acid lactone-2, 7-dimethyl ether**

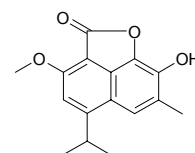
$C_{17}H_{18}O_4$ (286.33). **Source:** JI BEI *Ceiba pentandra*. **Ref:** 3040.

**11453 Isohemigossylic acid lactone-2-methyl ether**

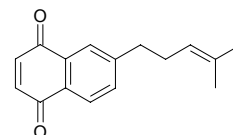
$C_{16}H_{16}O_4$ (272.3). mp 209~210°C, with a phase change from cubes to needles at 153~155°C (ether/cyclohexane). **Source:** MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*] (root: yield = 0.0042%^[dw]). **Ref:** 3040.

**11454 Isohemigossylic acid lactone- 7-methyl ether**

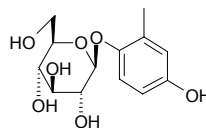
$C_{16}H_{16}O_4$ (272.3). **Source:** JI BEI *Ceiba pentandra*. **Ref:** 3040.

**11455 6-Isohexenyl- α -naphthoquinone**

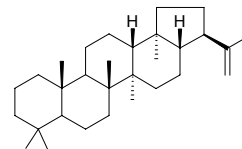
$C_{16}H_{16}O_2$ (240.36). **Pharm:** Antibacterial (gram-positive bacteria). **Source:** CAI DOU SHU *Radermachera sinica*. **Ref:** 658.

**11456 Isohomoarbutin**

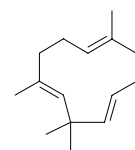
[25162-30-5] $C_{13}H_{18}O_7$ (286.28). mp 175~176°C. **Source:** HONG HUA LU TI CAO *Pyrola incarnata*, YUAN YE LU TI CAO *Pyrola rotundifolia*. **Ref:** 6, 660.

**11457 Isohop-22-(29)-ene**

$C_{30}H_{50}$ (410.73). **Source:** HAI ZHOU GU SUI BU *Davallia mariesii*. **Ref:** 660.

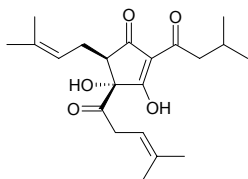
**11458 Iso- α -humulene**

1,3,3,8-Tetramethylcycloundeca-1,4,8-triene $C_{15}H_{24}$ (204.36). Colorless oil. **Source:** *Saccogyna viticulosa* (essential oil). **Ref:** 3839.

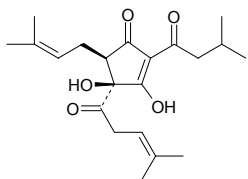


11459 Isohumulone A

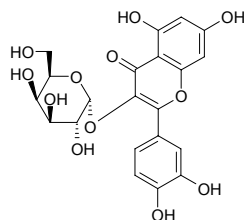
$C_{21}H_{30}O_5$ (362.47). Source: PI JIU HUA *Humulus lupulus*. Ref: 660.

**11460 Isohumulone B**

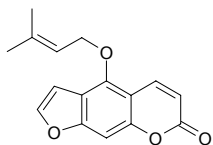
$C_{21}H_{30}O_5$ (362.47). Source: PI JIU HUA *Humulus lupulus*. Ref: 660.

**11461 Isohyperoside**

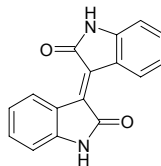
[65549-68-0] $C_{21}H_{20}O_{12}$ (464.39). mp 242–245°C. Source: MAN SHAN HONG *Rhododendron dauricum*. Ref: 6, 1521.

**11462 Isoimperatorin**

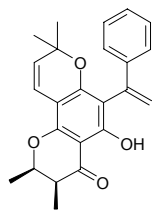
Ausraptin [482-45-1] $C_{16}H_{14}O_4$ (270.29). mp 109–101°C. Pharm: Antioxidant (DPPH free radical scavenger, $EC_{50} = 34.6 \mu\text{g/mL} = 171 \mu\text{mol/L}$, control Ascorbic acid, $EC_{50} = 1.6 \mu\text{g/mL} = 9.1 \mu\text{mol/L}$)^[4154]; NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100 $\mu\text{mol/L}$, InRt = (82.5±4.5)%, control *L*-NMMA, 100 $\mu\text{mol/L}$, InRt = (79.2±0.9)%)^[4454]; PGE₂ production inhibitor (rat peritoneal macrophages, LPS-induced, 30 $\mu\text{mol/L}$; inhibits LPS-induced expression of COX-2 and mPGES, not directly inhibits COX-1 and COX-2)^[5392]; AChE inhibitor (*in vitro*, $IC_{50} = 69 \mu\text{mol/L}$)^[3058]. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] (dried root: content scope of 6 origins = 0.042%–0.069%, mean content = 0.052%)^[5508], BEI SHA SHEN *Glehnia littoralis* (root: mean content of 6 origins = 0.00798%)^[5508], CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FEN CHA DANG GUI *Angelica furcijuga* (flower), HANG BAI ZHI *Angelica taiwaniana* (dried root: content scope of 19 origins = 0.032%–0.070%, mean content = 0.053%)^[5508], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QI BAI ZHI *Angelica dahurica* cv. *Qibaizhi* (sundried root: content scope of 10 origins = 0.060%–0.216%, mean content = 0.110%)^[5516], QIANG HUO *Notopterygium incisum*, *Niphogeton ternata*. Ref: 4, 325, 344, 507, 566, 660, 3058, 4154, 4156, 4454, 5392, 5501, 5508, 5516.

**11463 Isoindigo**

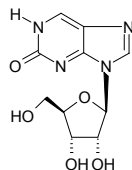
[476-34-6] $C_{16}H_{10}N_2O_2$ (262.27). Source: MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*]. Ref: 7, 701.

**11464 Isoinophynone**

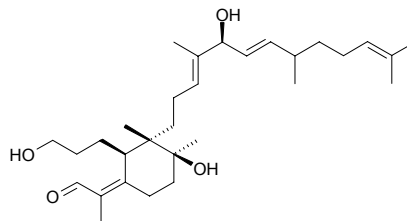
$C_{24}H_{24}O_4$ (376.46). Crystals, mp 185°C. Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 1878.

**11465 6-Isoinosine**

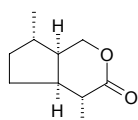
[72346-26-0] $C_{10}H_{12}N_4O_5$ (268.23). Source: MAO GENG HONG MAO WU JIA *Acanthopanax giraldii* var. *hispidus*. Ref: 525.

**11466 Isoiridogermanal**

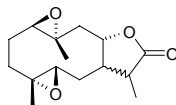
$C_{30}H_{50}O_4$ (474.73). Source: HU DIE HUA *Iris japonica* (root), SHE GAN *Belamcanda chinensis*. Ref: 660.

**11467 Isoiridomyrmecin**

[573-94-4] $C_{10}H_{16}O_2$ (168.24). mp 58–59°C. Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.

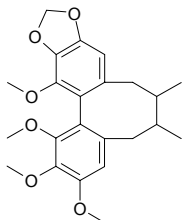
**11468 Isoivaxillin**

$C_{15}H_{22}O_4$ (266.34). Source: TIAN MING JING *Carpesium abrotanoides*. Ref: 660.

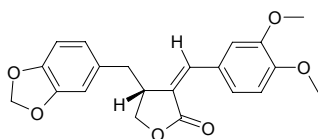


11469 Isokadsuranin

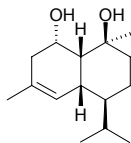
$C_{23}H_{28}O_6$ (400.48). Source: LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 660.

**11470 Isokaerophyllin**

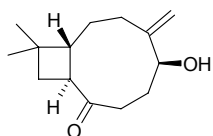
$C_{21}H_{20}O_6$ (368.39). Source: HONG CHAI HU *Bupleurum scorzonerifolium* (root). Ref: 3498.

**11471 Isokhusinodiol**

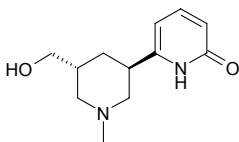
Iso-4-cadinene-2 α ,10 β -diol $C_{15}H_{26}O_2$ (238.37). mp 105~107°C, $[\alpha]_D^{27} = -5.9^\circ$ ($c = 0.26$, $CHCl_3$). Source: TAI WAN SHAN *Taiwania cryptomerioides* (root). Ref: 4371.

**11472 Isokobusone**

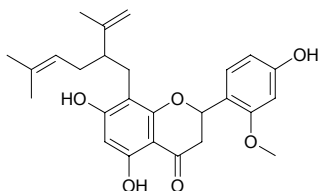
[24173-72-6] $C_{14}H_{22}O_2$ (222.33). Crystals (Et_2O), mp 108~109°C, $[\alpha]_D = -40.1^\circ$ ($c = 3.1$, $CHCl_3$). Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**11473 Isokuraramine**

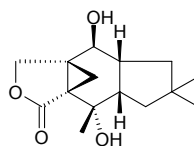
[85799-36-6] $C_{12}H_{18}N_2O_2$ (222.29). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.

**11474 Isokurarinone**

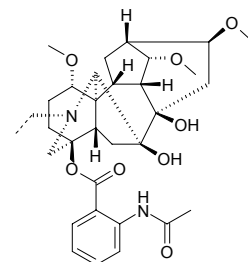
[52483-02-0] $C_{26}H_{30}O_6$ (438.53). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.

**11475 Isolactarorufin**

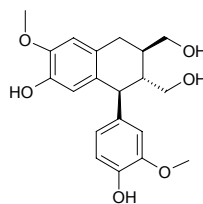
$C_{15}H_{22}O_4$ (266.34). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**11476 Isolappaconitine**

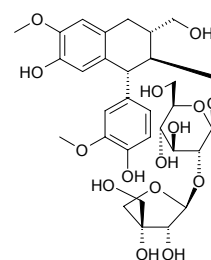
9-Deoxysanaconitine $C_{32}H_{44}N_2O_8$ (584.72). Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 660.

**11477 Isolariciresinol**

(+)-Isolariciresinol [548-29-8] $C_{20}H_{24}O_6$ (360.41). Colorless acicular crystals (methanol-chloroform), mp 158~160°C; 114~115°C (water-methanol), $[\alpha]_D^{20} = +64.6^\circ$ ($c = 1.5$, acetone), $[\alpha]_D^{20} = +34.0^\circ$ ($c = 0.10$, MeOH). Pharm: CNS depressant (mus); β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (6.0 \pm 8.5)%)^[4347]; antioxidant (DPPH free radical scavenger, for 40 μ mol/L DPPH radical, $SC_{50} = 12\mu$ mol/L)^[4378]; cytotoxic inactive (100 μ g/mL: KB, LNCaP, and Col2 cells)^[5336]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = -0.6%, 0.6%, 5.1%, 7.5%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]. Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0050%dw)^[4691], ZI SHAN *Taxus cuspidata*, YI ZHU QIAN MA *Urtica dioica*, YUE NAN LIE LAN *Bursera tonkinensis* (root). Ref: 900, 1521, 4347, 4378, 4691, 5336.

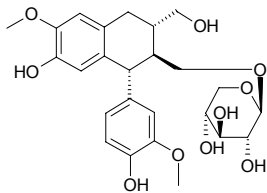
**11478 (-)-Isolariciresinol-3 α -O- β -apiofuranosyl-(1 \rightarrow 2)-O- β -glucopyranoside**

$C_{31}H_{42}O_{15}$ (654.67). Amorphous powder, $[\alpha]_D^{28} = -48.0^\circ$ ($c = 1.71$, MeOH). Source: TONG XU SHOU GONG MU *Sauropus androgynus*. Ref: 3432.

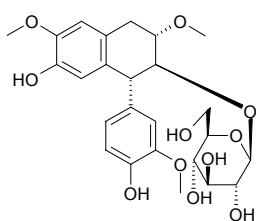


11479 (-)-Isolariciresinol-2 α -O- β -D-xylopyranoside

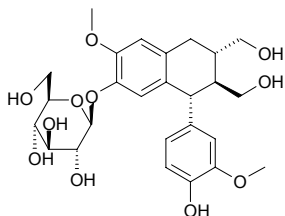
C₂₅H₃₂O₁₀ (492.53). White powder, mp 209–210°C. Source: DIAN BAI ZHU SHU *Gaultheria yunnanensis*. Ref: 666.

**11480 (-)-Isolariciresinol-3 α -O- β -D-glucopyranoside**

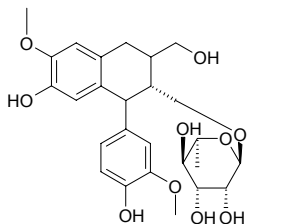
C₂₅H₃₂O₁₁ (508.53). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**11481 (-)-Isolariciresinol-4-O- β -D-glucopyranoside**

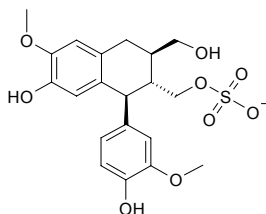
C₂₆H₃₄O₁₁ (522.55). Pale yellow amorphous powder, $[\alpha]_D^{15} = -33.0^\circ$ ($c = 0.2$, CHCl₃). Source: GE XUN *Balanophora japonica* (fresh aboveground part), SUO YANG *Cynomorium songaricum* (stem). Ref: 4114, 4451.

**11482 (+)-Isolariciresinol-9'-O- α -L-rhamnoside**

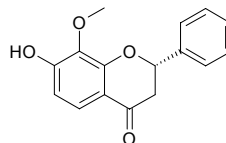
C₂₆H₃₄O₁₀ (506.55). White granular crystals (CHCl₃-MeOH), mp 211–214°C, $[\alpha]_D^{25} = +38.6^\circ$ ($c = 0.32$, MeOH). Source: BAN LI *Castanea mollissima* (flower). Ref: 4844.

**11483 (+)-Isolariciresinol-2 α -sulfate**

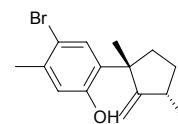
C₂₀H₂₃O₉S (439.46). Amorphous powder, $[\alpha]_D^{25} = +34.0^\circ$ ($c = 0.11$, MeOH). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 4186.

**11484 Isolarrien**

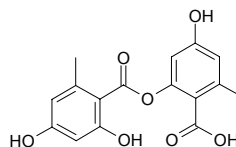
7-Hydroxy-8-methoxyflavanone C₁₆H₁₄O₄ (270.29). Amorphous powder. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum* (bulb). Ref: 3997.

**11485 Isolaurinterol**

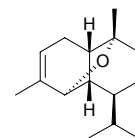
C₁₅H₁₉BrO (295.22). Pharm: Antibacterial (marine bacteria: *Alteromonas* sp., MIC = 10 μg/disc; *Azomonas agilis*, MIC = 5 μg/disc; *Erwinia amylovora*, MIC = 5 μg/disc; *Escherichia coli*, MIC = 10 μg/disc; *Alcaligenes aquamarinus*, *Azobacter beijerinckii*, *Halobacterium* sp., *Halococcus* sp., no inhibition). Source: CHAO AO DING CAO *Laurencia nidifica*. Ref: 5191.

**11486 Isolecanoric acid**

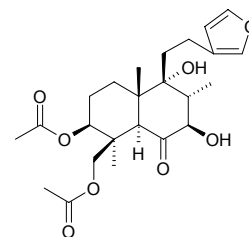
C₁₆H₁₄O₇ (318.29). Source: MEI YI *Parmelia tinctorum*. Ref: 660.

**11487 Isolentideusether**

C₁₅H₂₄O (220.36). Source: BAO PI GU *Lentinus lepideus*. Ref: 660.

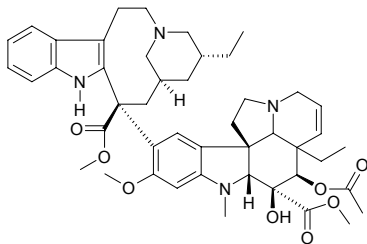
**11488 Isoleoisibirin**

[86575-86-2] C₂₄H₃₄O₈ (450.53). Oil liquid, $[\alpha]_D^{28} = +7.1^\circ$ ($c = 0.63$, CHCl₃). Source: XI YE YI MU CAO *Leonurus sibiricus*. Ref: 660, 2499.

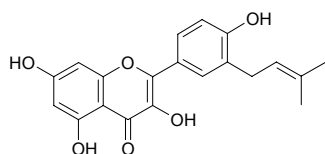


11489 Isoleurosine

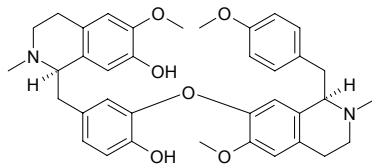
[20072-25-7] C₄₆H₅₈N₄O₈ (795.00). mp 202–206°C. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2, 1521.

**11490 Isolicoflavanol**

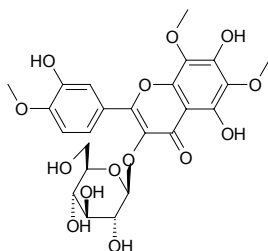
[94805-83-1] C₂₀H₁₈O₆ (354.36). Pharm: Inhibits onset of senility (free radical scavenger, EC₅₀ = 40μmol/L); anti-HIV; cytotoxic (cyclooxygenase-2 inhibitor, a promising lead as potential cancer chemopreventive agents)^[5038]; cytotoxic (aromatase inhibitor)^[5038]; aromatase inhibitor (*in vitro*, IC₅₀ = 0.1μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L)^[3090]. Source: GAN CAO *Glycyrrhiza uralensis*, GOU SHU *Broussonetia papyrifera*^[3090], ZHEN YE XUE TONG *Macaranga confiera*. Ref: 2, 1001, 1678, 3090, 5038.

**11491 Isoliensinine**

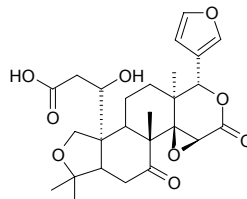
[6817-41-0] C₃₇H₄₂N₂O₆ (610.76). Oil, [α]_D²² = +49.3° (Me₂CO), [α]_D²⁹ = -43.3° (CHCl₃). Pharm: Pulmonary fibrosis inhibitor (BLM-induced, significant inhibitory effect, probably due to its antioxidant and/or anti-inflammatory activities and inhibitory overexpressing TNF-α and TGF-β₁ induced by BLM)^[5068]. Source: LIAN ZI XIN *Nelumbo nucifera* (dried plumule and radicle in seed: mean content of 7 origins = 0.125%^[5508]). Ref: 6, 1521, 5068, 5508.

**11492 Isolimocitrol-3-β-D-glucoside**

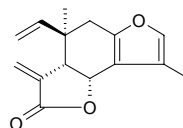
C₂₄H₂₆O₁₄ (538.47). mp 220–225°C. Source: NING MENG *Citrus limon*. Ref: 6.

**11493 Isolimononic acid (16→17)lactone**

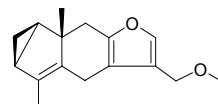
C₂₆H₃₂O₉ (488.54). Source: CHENG ZI *Citrus junos*, ZHI SHI *Citrus aurantium*. Ref: 660.

**11494 Isolinderalactone**

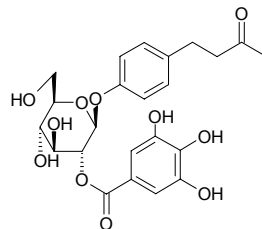
[957-66-4] C₁₅H₁₆O₃ (244.29). mp 118–121°C. Pharm: Cytotoxic (*in vitro*: KB ED₅₀ = 2.990mg/L, P₃₈₈ ED₅₀ = 0.816mg/L, A549 ED₅₀ = 1.420mg/L, HT29 ED₅₀ = 1.528mg/L). Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6, 1647.

**11495 Isolinderoxide**

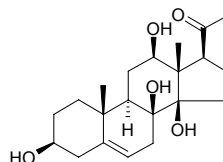
[15004-40-7] C₁₆H₂₀O₂ (244.34). bp 97–100°C/0.3mmHg. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6, 1521.

**11496 Isolindleyin**

[87075-18-1] C₂₃H₂₆O₁₁ (478.46). Source: TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660, 1521.

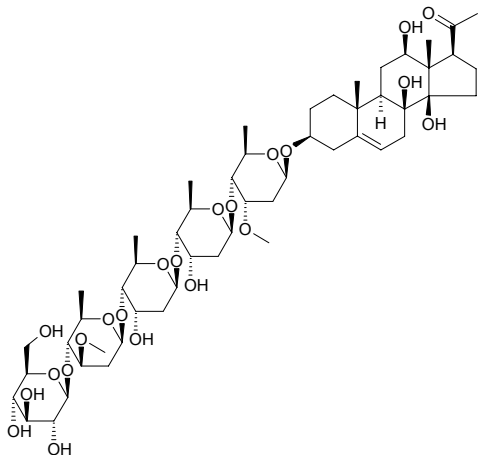
**11497 Isolineolone**

C₂₁H₃₂O₅ (364.49). Source: FU SHOU CAO *Adonis amurensis*, ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 6, 1521, 3925.



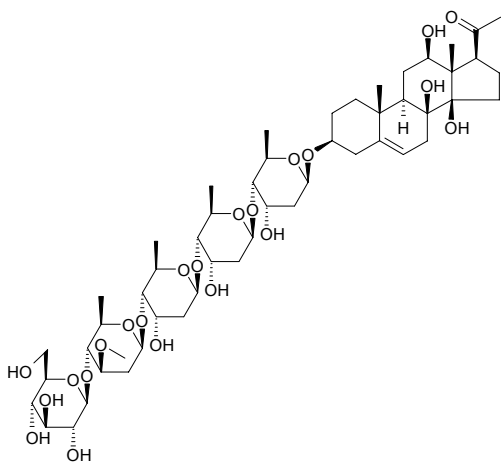
11498 Isolineolon 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₅₃H₈₆O₂₂ (1075.26). Amorphous powder, $[\alpha]_D^{21} = +32.1^\circ$ ($c = 0.90$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



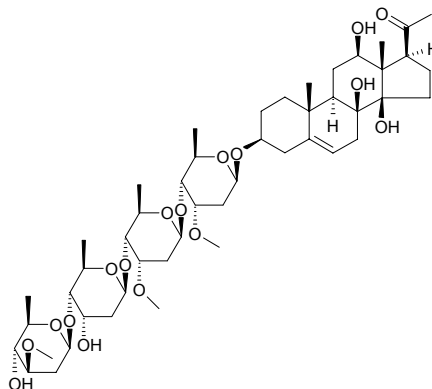
11499 Isolineolon 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₅₂H₈₄O₂₂ (1061.24). Amorphous powder, $[\alpha]_D^{27} = +28.3^\circ$ ($c = 1.12$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



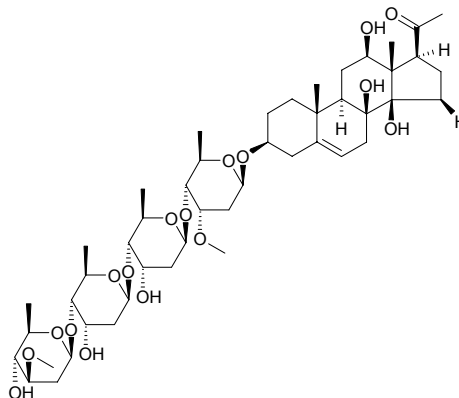
11500 Isolineolon 3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₄₈H₇₈O₁₇ (927.15). Amorphous powder, $[\alpha]_D^{27} = +46.2^\circ$ ($c = 0.50$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



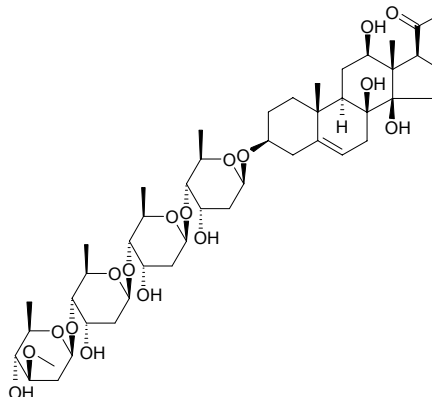
11501 Isolineolon 3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₄₇H₇₆O₁₇ (913.12). Amorphous powder, $[\alpha]_D^{20} = +35.5^\circ$ ($c = 0.78$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



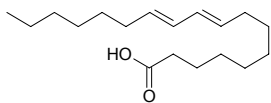
11502 Isolineolon 3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₄₆H₇₄O₁₇ (899.09). Amorphous powder, $[\alpha]_D^{24} = +30.9^\circ$ ($c = 1.14$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

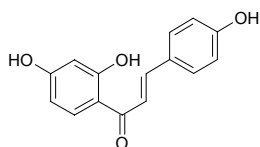


11503 Isololinic acid

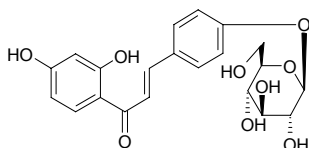
9,11-Octadecadienoic acid C₁₈H₃₂O₂ (280.45). mp 54°C. Source: BIAN JING HUANG QI *Astragalus complanatus*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], MING DANG SHEN *Changium smyrnioides*, SAN LENG *Sparganium stoloniferum*, SHU MI *Panicum miliaceum*. Ref: 6, 2655, 2882, 2883, 2885.

**11504 Isoliquiritigenin**

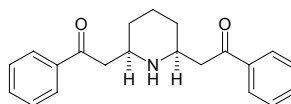
4,2',4'-Trihydroxychalcone [961-29-5] C₁₅H₁₂O₄ (256.26). mp 185~186°C (dec), 199.5~200.5°C. Pharm: Cytotoxic (quinone reductase induction assay in cultured Hepa1c7 mouse hepatoma cells, CD = 1.4µg/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, 76% at 10µg/mL, a promising lead as potential cancer chemopreventive agents)^[5038]; cytotoxic (HT1080 cell line, IC₅₀ = 96.8µmol/L)^[4470]; antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, IC₅₀ = 36.3µmol/L; control Sulforaphane, IC₅₀ = 11µmol/L)^[4718]; inhibits cell proliferation (HepG2, IC₅₀ = 10.51µg/mL, induces apoptosis)^[5055]; monoamine oxidase inhibitor (mitochondrion in mus liver cells); antispasmodic (zoic intestinal canal *in vitro*, inhibits intestinal spasm caused by acetylcholine, histamine or BaCl₂); antiulcerative (pylorus-ligated rat). Source: CI HUAI HUA *Robinia pseudoacacia*, DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00015%dw)^[4718], GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, HU CONG *Allium ascalonicum*, HUI HUI DOU *Cicer arietinum*, JUAN MAO HUANG TAN *Dalbergia sericea*, LING NAN HUAI SHU *Sophora tomentosa*, LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], LV DOU *Onobrychis vicifolia*, SI TE WEN HUANG TAN *Dalbergia stevensonii*, YA MAI JIA YING TAO *Muntingia calabura*, YUN NAN GAN CAO *Glycyrrhiza yunnanensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 6, 658, 660, 4470, 4696, 4718, 5038, 5055.

**11505 Isoliquiritin**

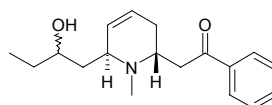
[5401-81-6] C₂₁H₂₂O₉ (418.40). mp 185~186°C. Pharm: Anti-angiogenic (*in vitro*, 1~100µmol/L, IC₅₀ = 28.3 mol/L); anti-inflammatory (mus, 0.31~1.3mg/kg, inhibits content of carmine in granulation tissue, IC₅₀ = 1.46mg/kg, inhibits weight of diffulate in granulation gasbag, IC₅₀ = 771mg/kg); anti-complication of diabetes (hmn red cell, inhibits aggregation of sorbol, IC₅₀ = 29µmol/L); aldose reductase inhibitor (rat eye lens, 1.0µg/mL, InRt = 75.4%, IC₅₀ = 0.72µmol/L). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content = 0.289%^[5508]), GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.723%^[5508]), HUANG GAN CAO *Glycyrrhiza kansuensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.849%^[5508]). Ref: 2, 660, 1765, 1766, 5508.

**11506 Isolobelanine**

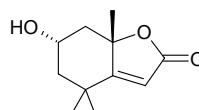
Norlobelanine C₂₁H₂₃NO₂ (321.42). mp 120~121°C. Source: BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*]. Ref: 2, 1521.

**11507 Isolobinine**

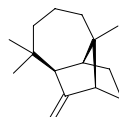
C₁₈H₂₅NO₂ (287.41). Pharm: Antitussive; antiasthmatic; increases blood pressure. Source: BEI MEI ZHOU SHAN GENG CAI *Lobelia inflata*. Ref: 658, 1521.

**11508 Isololiolide**

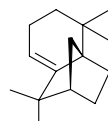
C₁₁H₁₆O₃ (196.25). Source: QUN DAI CAI *Undaria pinnatifida* (dried thallus: yield = 0.00052%). Ref: 4602.

**11509 (+)-β-Isolongibornene**

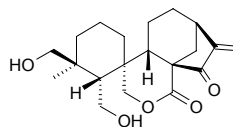
C₁₅H₂₄ (204.36). Colorless oil. Source: BO BAN HE YE TAI *Scapania undulata* (essential oil). Ref: 3752.

**11510 Isolongifolene**

(-)-Isolongifolene; (2*S*,4*R*)-(-)-1,3,4,5,6,7-Hexahydro-1,1,5,5-tetramethyl-2*H*-2,4a-methanonaphthalene [1135-66-6] C₁₅H₂₄ (204.36). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2, 1521.

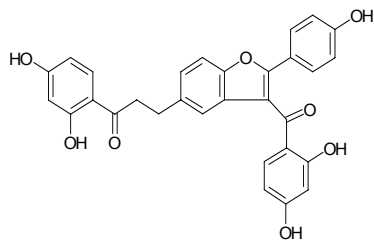
**11511 Isolongirabdiol**

C₂₀H₂₈O₅ (348.44). Amorphous powder, [α]_D²⁶ = +37.7° (c = 0.69, MeOH). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

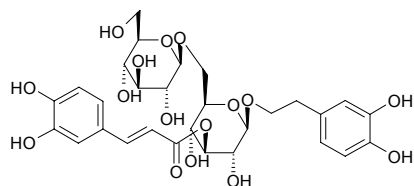


11512 Isolophirone C

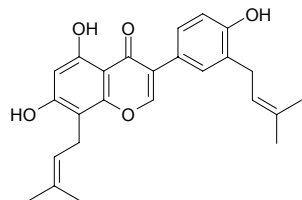
$C_{30}H_{22}O_8$ (510.51). Yellow crystals, mp 194–195°C (Me₂CO). Source: *Ochna afzelii* (stem cortex). Ref: 5153.

**11513 Isolugrandoside**

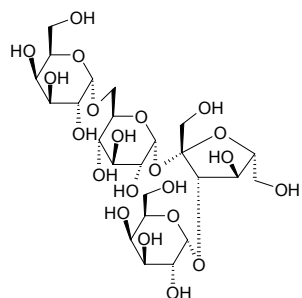
2-(3,4-dihydroxyphenyl)-ethyl-*O*-β-*D*-glucopyranosyl-(1→6)-3-*O*-*trans*-caffeoyl-*l*-β-*D*-glucopyranoside $C_{29}H_{35}O_{16}$ (640.60). Amorphous powder, $[\alpha]_D^{25} = 16.6^\circ$ ($c = 0.06$, MeOH). Source: HUA BAI LA SHU *Fraxinus ornus*. Ref: 1894.

**11514 Isolupalbigenin**

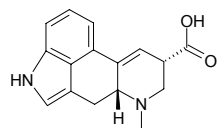
$C_{25}H_{26}O_5$ (406.48). Pharm: Antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 16%, control BHT, 10 μmol/L, ScRt = 43%)^[5319]. Source: HUANG YU SHAN *Lupinus luteus*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), XIAO JING DOU *Ulex minor*. Ref: 1521, 5319.

**11515 Isolychnose**

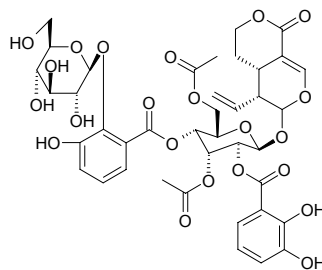
$C_{24}H_{42}O_{21}$ (666.59). Source: BAI NIU XI *Cucubalus baccifer*. Ref: 6.

**11516 Isolysergic acid**

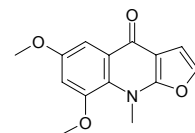
$C_{16}H_{16}N_2O_2$ (268.32). Source: MAI JIAO *Claviceps purpurea*, QUE BAI MAI JIAO *Claviceps paspali*. Ref: 660.

**11517 Isomacrophyllside**

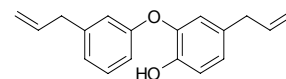
$C_{40}H_{44}O_{22}$ (876.78). Source: XI ZANG QIN JIAO *Gentiana tibetica*. Ref: 702.

**11518 Isomaculosidine**

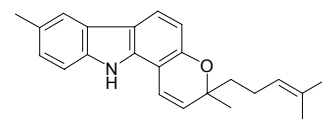
$C_{14}H_{13}NO_4$ (259.26). Source: BAI XIAN PI *Dictamnus dasycarpus*. Ref: 660.

**11519 Isomagnolol**

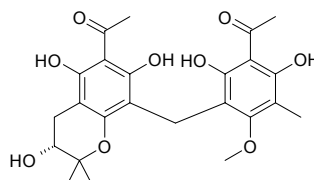
Hydromagnolol [87688-90-2] $C_{18}H_{18}O_2$ (366.34). mp 143.5°C. Source: HOU PO *Magnolia officinalis*, AO YE HOU PO *Magnolia biloba*. Ref: 2, 660.

**11520 Isomahanimbine**

Mahanimbicine [28305-77-3] $C_{23}H_{25}NO$ (331.46). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*, YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11.

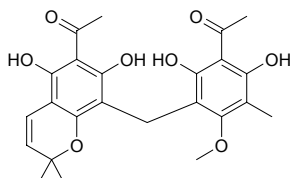
**11521 Isomallotochromanol**

$C_{24}H_{28}O_9$ (460.49). Pharm: Anti-inflammatory (modulator of cytokine network: inhibits mRNA expression and production of TNF-α or IL-6 in RAW264.7 cells (IC₅₀ = 0.7–30 μmol/L)). Source: YE WU TONG *Mallotus japonicus*. Ref: 4416.

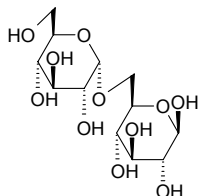


11522 Isomallotochromene

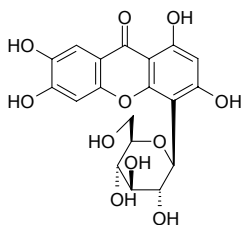
$C_{24}H_{26}O_8$ (442.47). **Pharm:** Anti-inflammatory (modulator of cytokine network; inhibits mRNA expression and production of TNF- α or IL-6 in RAW264.7 cells, $IC_{50} = 0.7\sim 30\mu\text{mol/L}$). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 4416.

**11523 Isomaltose**

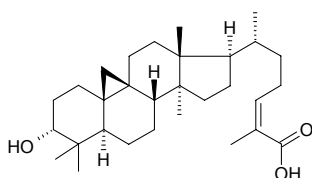
[499-40-1] $C_{12}H_{22}O_{11}$ (342.30). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2, 1521.

**11524 Isomangiferin**

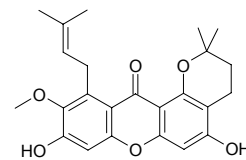
[24699-16-9] $C_{19}H_{18}O_{11}$ (422.35). mp > 260°C (dec). **Pharm:** Antitussive (dispels phlegm); antiviral (HSV); cardiotoxic; diuretic; antidepressant. **Source:** GUANG SHI WEI *Pyrrhosia calvata* (dried leaf: content = 7.84%^[5508]), LU SHAN SHI WEI *Pyrrhosia sheareri* (dried leaf: mean content = 0.16%^[5508]), NI GUANG SHI WEI *Pyrrhosia pseudocalvata* (dried leaf: content = 0.17%^[5508]), SHI WEI *Pyrrhosia lingua* (dried leaf: content scope = 0.01%~0.24%^[5501], mean content = 0.014%^[5508]), YOU BING SHI WEI *Pyrrhosia petiolosa* (dried leaf: mean content = 0.011%^[5508]), ZHI MU *Anemarrhena asphodeloides* (dried rhizome: content scope of 8 origins = 0.35%~2.80%, mean content = 1.17%^[5508]). **Ref:** 2, 660, 5501, 5508.

**11525 Isomangiferolic acid**

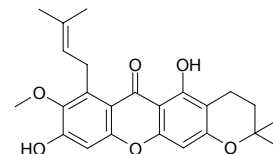
Isoschizandrolic acid [13878-92-7] $C_{30}H_{48}O_3$ (456.72). mp 168~170°C. **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** MANG GUO *Mangifera indica*, MANG GUO SHU PI *Mangifera indica*, LIU LI CAO *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*]. **Ref:** 6, 1521, 2523.

**11526 1-Isomangostin**

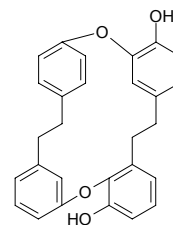
[19275-44-6] $C_{24}H_{26}O_6$ (410.47). **Pharm:** Antibacterial; antifungal. **Source:** DAO NIAN ZI *Garcinia mangostana*, DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066]. **Ref:** 658, 3066.

**11527 3-Isomangostin**

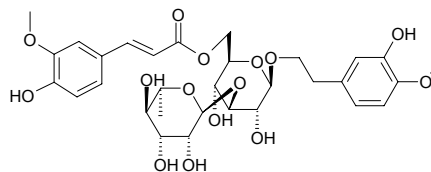
$C_{24}H_{26}O_6$ (410.47). **Pharm:** Antioxidant inactive (DPPH scavenger, 10 $\mu\text{mol/L}$, ScRt = 3%; control BHT, 10 $\mu\text{mol/L}$, ScRt = 43%, $IC_{50} = 19.00\mu\text{mol/L}$)^[4422]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 3066, 4422.

**11528 Isomarchantin C**

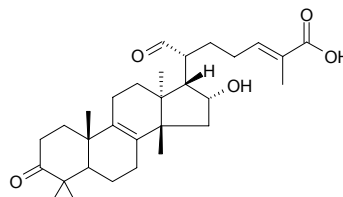
$C_{28}H_{24}O_4$ (424.50). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**11529 Isomartynoside**

$C_{31}H_{40}O_{15}$ (652.66). **Source:** DA YE ZUI YU CAO *Buddleja davidii*, CHE QIAN *Plantago asiatica*. **Ref:** 660.

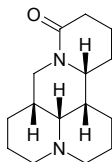
**11530 Isomasticadienonic acid**

$C_{30}H_{44}O_5$ (484.68). $[\alpha]_D^{25} = +29.9^\circ$ ($c = 0.5$, CHCl_3). **Pharm:** Anti-inflammatory (acute inflammation model, PLA₂-induced mouse paw oedema, 30mg/kg, InRt = 66% at 60min); anti-inflammatory (chronic inflammation model, in the form of eczema, provoked by repeated administration of TPA to the ears of mouse, swelling reduction = 48%, control Dexamethasone, swelling reduction = 85%; reduces leukocyte infiltration, measured as tissue peroxidase activity, InRt = 50%, Dexamethasone, InRt = 55%); toxic (rat peritoneal polymorphonuclear leukocytes, 100 $\mu\text{mol/L}$). **Source:** ROU MAO XIAO RU XIANG *Schinus molle* (fruit). **Ref:** 5459.

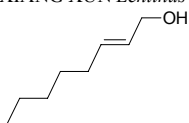


11531 Isomatrine

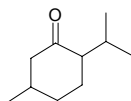
[17801-36-4] C₁₅H₂₄N₂O (248.37). mp 132~134°C, [α]_D²⁵ = +44° (CHCl₃).
Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 5 origins = 0%~0.022%, mean content = 0.004%^[5508]). **Ref:** 2, 1521, 5508.

**11532 Isomatsutakeol**

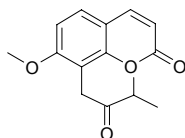
(E)-2-Octen-1-ol C₈H₁₆O (128.22). bp 87~89°C/11mmHg. **Source:** BING CHI XIAN *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*], SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*], XIANG XUN *Lentinus edodes*. **Ref:** 6, 660.

**11533 Isomenthone**

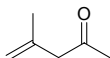
C₁₀H₁₈O (154.25). mp (+) -35°C, bp (+) 212°C, (±) 210°C. **Source:** BO HE *Mentha haplocalyx* [Syn. *Mentha canadensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], HUA DONG LAN CI TOU *Echinops grijsii*. **Ref:** 2, 660.

**11534 Isomeramazin**

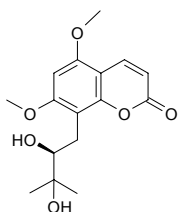
C₁₅H₁₆O₄ (260.29). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.

**11535 Isomesityl oxide**

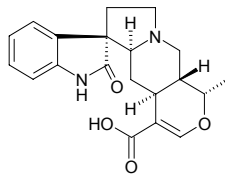
4-Methyl-4-penten-2-one [3744-02-3] C₆H₁₀O (98.15). mp 135~145°C (dec). **Source:** YA ER QIN *Cryptotaenia japonica*. **Ref:** 6.

**11536 Isomexoticin**

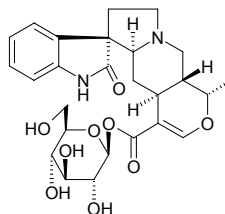
C₁₆H₂₀O₆ (308.33). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 660.

**11537 Isomitraphyllic acid**

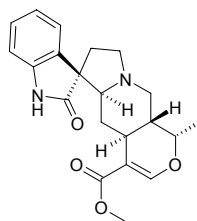
C₂₀H₂₂N₂O₄ (354.41). White thin acicular crystals, mp 184~186°C. **Source:** HUA GOU TENG *Uncaria sinensis*. **Ref:** 287.

**11538 Isomitraphyllic acid (16→1)-β-D-glucopyranosyl ester**

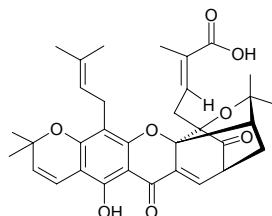
C₂₆H₃₂N₂O₉ (516.55). White powder crystals, mp 206~209°C, [α]_D = 0° (MeOH). **Source:** HUA GOU TENG *Uncaria sinensis*. **Ref:** 287.

**11539 Isomitraphylline**

C₂₁H₂₄N₂O₄ (368.44). **Pharm:** Immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines). **Source:** BAI GOU TENG *Uncaria sessilifrutus* [Syn. *Nauclea sessilifrutus*], BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, FEI ZHOU GOU TENG *Uncaria africana*, GUI YA NA GOU TENG *Uncaria guianensis*, HOU YE GOU TENG *Uncaria callophylla*, MAO GOU TENG *Uncaria hirsuta*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], PI ZHEN YE GOU TENG *Uncaria lancifolia*, PING HUA FA LIANG GOU TENG *Uncaria laevigata*, TUO YUAN GOU TENG *Uncaria elliptica*, *Uncaria bernaysii*, *Uncaria perrottetii*, *Uncaria sterrophylla*. **Ref:** 5341.

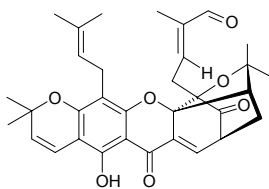
**11540 Isomorellic acid**

C₃₃H₃₆O₈ (560.65). **Source:** TENG HUANG *Garcinia morella*. **Ref:** 6.

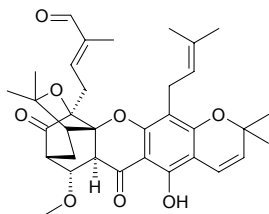


11541 Isomorellin

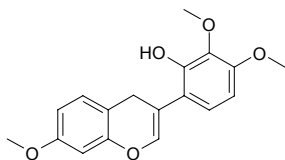
[1064-71-7] $C_{33}H_{36}O_7$ (544.65). Acicular crystals (methanol), mp 120–121°C, $[\alpha]_D = -623^\circ$ (chloroform). **Pharm:** Cytotoxic (*in vitro*, hm cervical carcinoma cells, MIC = 25.0 $\mu\text{g/mL}$, hm embryo lung cells, MIC = 25.0 $\mu\text{g/mL}$); antiprotozoal. **Source:** TENG HUANG *Garcinia morella*. **Ref:** 6, 900.

**11542 Isomorellin B**

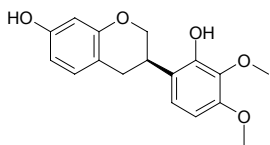
$C_{34}H_{40}O_8$ (576.69). **Source:** TENG HUANG SHU *Garcinia hanburyi* (fresh fruit). **Ref:** 4487.

**11543 Iso-mucromatol**

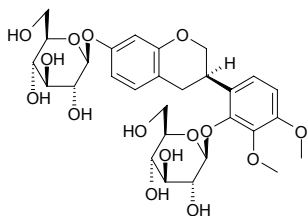
$C_{18}H_{18}O_5$ (314.34). **Source:** KUN MING JI XUE TENG *Milletia dielsiana*. **Ref:** 2205.

**11544 Isomucronulatol**

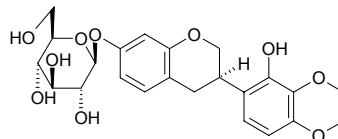
$C_{17}H_{18}O_5$ (302.33). $[\alpha]_D^{20.6} = -13.0^\circ$ ($c = 0.3$, CHCl_3). **Source:** DIAN HUANG JING *Polygonatum kingianum* (dried rhizome), MENG GU HUANG QI *Astragalus mongholicus*. **Ref:** 660, 5484.

**11545 Isomucronulatol-7,2'-di-O-glucoside**

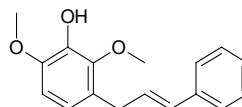
$C_{29}H_{38}O_{15}$ (626.62). **Source:** MENG GU HUANG QI *Astragalus mongholicus*. **Ref:** 660.

**11546 Isomucronulatol-7-O-glucoside**

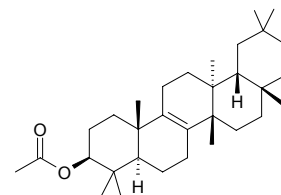
$C_{23}H_{28}O_{10}$ (464.47). **Source:** MENG GU HUANG QI *Astragalus mongholicus*. **Ref:** 660.

**11547 Isomucronustyrene**

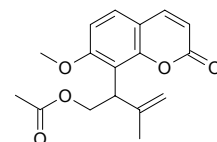
$C_{17}H_{18}O_3$ (270.33). **Pharm:** Platelet aggregation inhibitor (induced by arachidonic acid); prostaglandin biosynthesis inhibitor. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 660, 5501.

**11548 Isomultiflorenyl acetate**

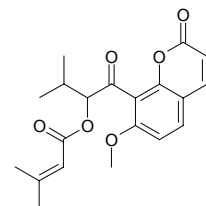
$C_{32}H_{52}O_2$ (468.77). **Source:** DONG GUA PI *Benincasa hispida*. **Ref:** 660.

**11549 Isomurralonginol acetate**

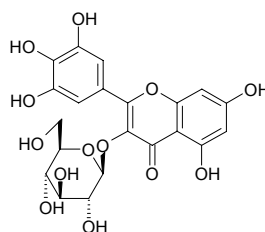
$C_{17}H_{18}O_5$ (302.33). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 660.

**11550 Isomurranganone seneciolate**

$C_{20}H_{22}O_6$ (358.39). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 660.

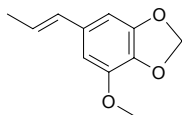
**11551 Isomyricitrin**

Myricetin-3-glucoside [19833-12-6] $C_{21}H_{20}O_{13}$ (480.39). **Source:** BAI FAN DOU *Phaseolus vulgaris*, HENG GEN FEI CAI *Sedum kamschaticum*. **Ref:** 6.

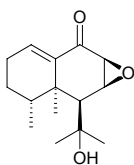


11552 Isomyristicin

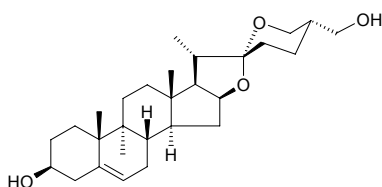
$C_{11}H_{12}O_3$ (192.22). Source: GAO BEN *Ligusticum sinense*, SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], XIN JIANG GAO BEN *Conioselinum vaginatum*. Ref: 660.

**11553 Isonardosinone**

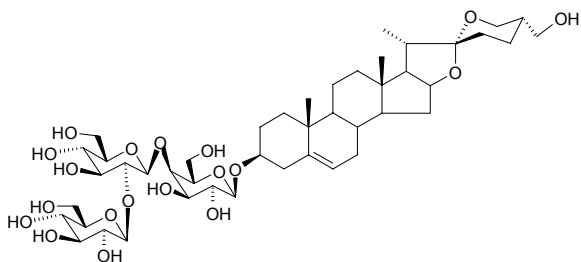
$C_{15}H_{22}O_3$ (250.34). Source: GAN SONG *Nardostachys chinensis*. Ref: 660.

**11554 Isonarthogenin**

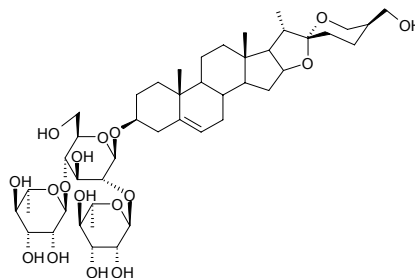
[7050-40-0] $C_{27}H_{42}O_4$ (430.63). Source: CHA RUI SHU YU *Dioscorea collettii*. Ref: 10.

**11555 Isonarthogenin 3-O-β-D-glucopyranosyl-(1→2)-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside**

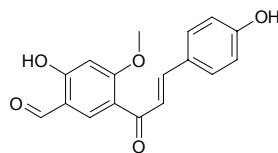
$C_{45}H_{72}O_{19}$ (917.06). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 5.24\mu g/mL$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu g/mL$). Source: HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00006%dw). Ref: 4788.

**11556 Isonarthogenin-3-O-α-L-rhamnopyranosyl-(1→2)-O-[α-L-rhamnopyranosyl-(1→4)]-β-D-glucopyranoside**

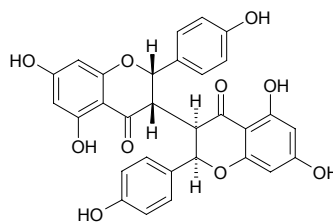
$C_{45}H_{72}O_{17}$ (885.07). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 3.62\mu g/mL$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu g/mL$)^[4788]. Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00016%), HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00014%dw). Ref: 4692, 4788.

**11557 Isonobavachalcone**

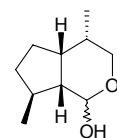
[76444-57-0] $C_{17}H_{14}O_5$ (298.30). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2.

**11558 Isonochamaejasmin A**

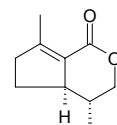
$C_{30}H_{22}O_{10}$ (542.50). Yellowish powder, mp 233–235°C (MeOH). Source: LANG DU *Stellera chamaejasme*. Ref: 4577.

**11559 Isonematatabiol**

Isodihydronepetalactol [34258-02-1] $C_{10}H_{18}O_2$ (170.25). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6, 1521.

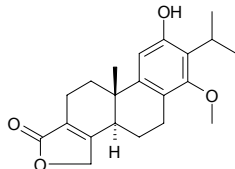
**11560 Isononepetalactone**

$C_{10}H_{14}O_2$ (166.22). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 660.



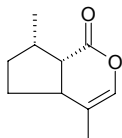
11561 Isonetriptophenolide

$C_{21}H_{26}O_4$ (342.44). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**11562 Isonepetalactone**

$C_{10}H_{14}O_2$ (166.22). mp 27.5–29.0°C. Source: JIA JING JIE *Nepeta cataria*.

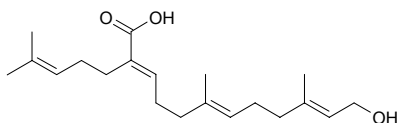
Ref: 6.

**11563 Isonerylgeraniol-18-oic acid**

(2*E*,6*E*,10*Z*)-1-Hydroxy-2,6,10,14-phyttetraen-18-oic Acid $C_{20}H_{32}O_3$

(320.48). Amorphous solid. Source: TAI WAN CUI BAI *Calocedrus*

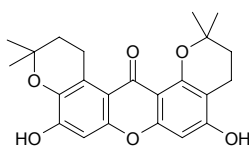
macrolepis var. *formosana* (leaf). Ref: 4297.

**11564 Isonormangostin**

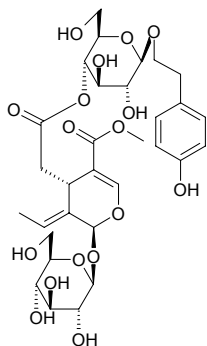
$C_{23}H_{24}O_6$ (396.44). Pharm: Antioxidant (DPPH scavenger, 10μmol/L, ScRt =

10%, control BHT, 10μmol/L, ScRt = 43%). Source: TIAN SHAN ZHU

ZI Garcinia dulcis (fruit). Ref: 5319.

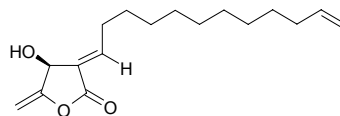
**11565 Isonuezhenide**

$C_{31}H_{42}O_{17}$ (686.67). Source: NV ZHEN ZI *Ligustrum lucidum*. Ref: 3545.

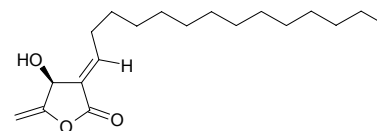
**11566 Isoobtusilactone**

[56522-14-6] $C_{17}H_{26}O_3$ (278.39). Oil, $[\alpha]_D = -43^\circ$ ($c = 0.003$, chloroform).

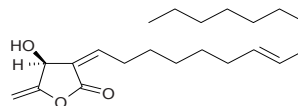
Pharm: Cytotoxic (cultured hmn MCF7, $ED_{50} = 4.60\mu\text{g/mL}$, HT29, $ED_{50} = 2.92\mu\text{g/mL}$, BST, $LC_{50} = 0.065\text{mg/L}$). Source: ZHANG MU *Cinnamomum camphora*, SAN ZUAN FENG *Lindera obtusiloba*. Ref: 938, 1053, 1119.

**11567 Isoobtusilactone A**

$C_{19}H_{32}O_3$ (308.47). Source: SAN ZUAN FENG *Lindera obtusiloba*. Ref: 660.

**11568 Isoobtusilactone B**

$C_{21}H_{34}O_3$ (334.50). Source: SAN ZUAN FENG *Lindera obtusiloba*. Ref: 660.

**11569 Isoobtusitin**

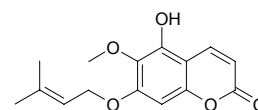
5-Hydroxy-6-methoxy-7-(3-methyl-but-2-enyloxy)-2*H*-1-benzopyran-2-one

$C_{15}H_{16}O_5$ (276.29). Pale yellow needles (MeOH), mp 127–130°C. Pharm:

Antiviral (*in vitro*, poliovirus, moderate activity; HIV, very weak activity;

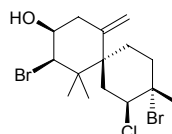
HSV1, VSV, and murine tumoral cell lines 3LL, L1210, inactive). Source:

Psiadia dentata (aerial parts). Ref: 3527.

**11570 Isoobtusol**

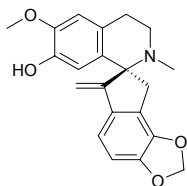
$C_{15}H_{23}Br_2ClO$ (414.61). mp 109–113°C, $[\alpha]_D^{26} = +24.8^\circ$ ($c = 0.48$, $CHCl_3$).

Pharm: Antibacterial (*Clostridium cellobioparum*, MIC = 10μg/disc; *Proteus mirabilis*, MIC = 15μg/disc; *Chromobacterium violaceum*, *Escherichia coli*, *Flavobacterium helmiphilum*, *Vibrio parahaemolyticus*, MIC = 40–60μg/disc; *Clostridium fallax*, *Clostridium novyi*, *Clostridium sordellii*, *Enterobacter aerogenes*, *Shigella flexneri*, *Vibrio cholerae*, *Vibrio vulnificus*, no inhibition). Source: LUE DAO DING ZAO *Laurencia majuscula*. Ref: 5183.

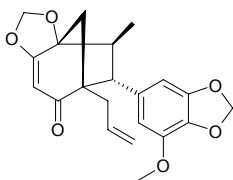


11571 Isoochotensine

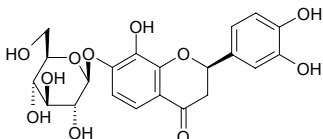
$C_{21}H_{21}NO_4$ (351.41). Source: HUANG ZI JIN *Corydalis ochotensis*. Ref: 660.

**11572 Isoocobullenone**

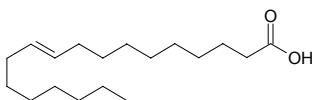
$C_{21}H_{22}O_6$ (370.41). Pharm: Anti-inflammatory (5-LOX inhibitor, $IC_{50} > 100 \mu\text{mol/L}$; COX-1 inhibitor, $> 500 \mu\text{mol/L}$, inactive, control Indomethacin, $IC_{50} = 3.1 \mu\text{mol/L}$, COX-2 inhibitor, $> 500 \mu\text{mol/L}$, inactive, Indomethacin, $IC_{50} = 188 \mu\text{mol/L}$). Source: NAN FEI ZHANG GUI *Ocotea bullata* (stem cortex). Ref: 3971.

**11573 Isookanin-7-O-β-D-glucoside**

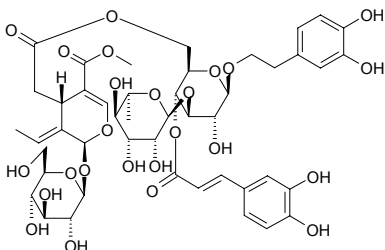
$C_{21}H_{22}O_{11}$ (450.40). Source: GUI ZHEN CAO *Bidens bipinnata*, LANG PA CAO *Bidens tripartita*. Ref: 660.

**11574 Isooleic acid**

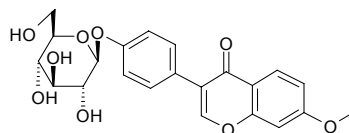
10-Octadecenoic acid [5684-82-2] $C_{18}H_{34}O_2$ (282.47). mp 52.5°C. Source: HUI XIANG *Foeniculum vulgare*, HUI XIANG JING YE *Foeniculum vulgare*, MING DANG SHEN *Changium smyrnioides*, WEN PO *Cydonia oblonga*. Ref: 6, 1521, 2940, 2941.

**11575 Isooleoacteoside**

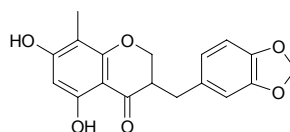
$C_{46}H_{58}O_{25}$ (1010.96). Colorless amorphous powder, $[\alpha]_D^{23} = -124^\circ$ ($c = 0.28$, MeOH). Source: YING CHUN HUA *Jasminum nudiflorum* (leaf). Ref: 4169.

**11576 Isoononin**

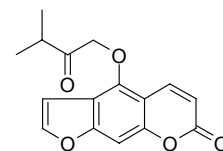
Isoformononetin-4'-glucoside $C_{22}H_{22}O_9$ (430.42). White acicular crystals, mp 216–218°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 305, 660.

**11577 Isoophiopogonone A**

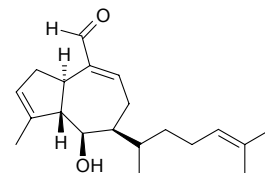
$C_{18}H_{16}O_6$ (328.32). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

**11578 Isooxypeucedanin**

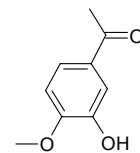
[5058-15-1] $C_{16}H_{14}O_5$ (286.29). Crystals (Et₂O), mp 146–148°C, mp 131–132°C. Source: HANG BAI ZHI *Angelica taiwaniana*, LIN BAI ZHI *Angelica sylvestris*, *Niphogeton ternata*. Ref: 2, 660, 4156.

**11579 Isopachydictyolal**

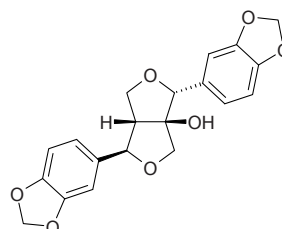
$C_{20}H_{30}O_2$ (302.46). Colorless oil, $[\alpha]_D^{20} = -85.8^\circ$ ($c = 0.30$, CH₂Cl₂). Source: WANG DI ZAO *Dictyota dichotoma*. Ref: 3818.

**11580 Isopaconol**

$C_9H_{10}O_3$ (166.18). Pharm: Analgesic (mus); intestinal smooth muscle relaxant. Source: XU CHANG QING *Cynanchum paniculatum*. Ref: 660, 5501.

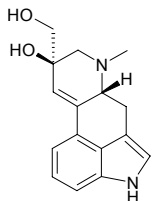
**11581 Isopaulownin**

[10590-41-7] $C_{20}H_{18}O_7$ (370.36). mp 132°C, $[\alpha]_D = +127^\circ$ ($c = 0.80$, CHCl₃). Source: MAO PAO TONG *Paulownia tomentosa*. Ref: 6, 660.

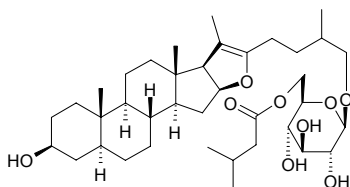


11582 Isopenniclavine

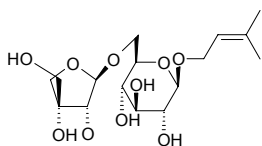
[478-92-2] C₁₆H₁₈N₂O₂ (270.33). mp 163~165°C (dec). Source: QIAN NIU ZI *Pharbitis nil*. Ref: 6.

**11583 26-O-(3'-Isopentanoyl)-β-D-glucopyranosyl-5α-furost-20(22)-ene-3β,26-diol**

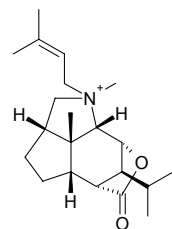
C₃₈H₆₂O₉ (662.91). White powder. Source: PA KE YE XIANG SHU *Cestrum parqui* (fresh leaf). Ref: 5327.

**11584 Isopentenol-1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

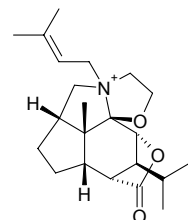
[198832-70-1] C₁₆H₂₈O₁₀ (380.40). Powder, [α]_D²⁶ = -66.2° (c = 2.0, MeOH). Source: ZI HU *Bupleurum falcatum*. Ref: 2317.

**11585 N-Isopentenyl dendrobine**

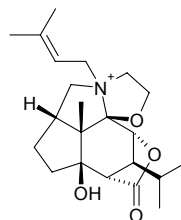
C₂₁H₃₄NO₂⁺ (332.51). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 660.

**11586 N-Isopentenyl dendroxine**

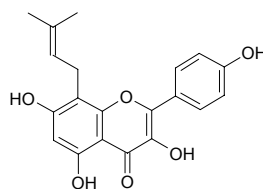
C₂₂H₃₄NO₃ (360.52). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 660.

**11587 N-Isopentenyl-6-hydroxydendroxine**

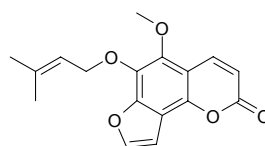
C₂₂H₃₄NO₄⁺ (376.52). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*. Ref: 660.

**11588 8-Isopentenyl-kaempferol**

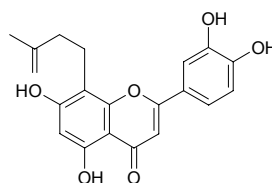
Noranhydrocaritin [28610-31-3] C₂₀H₁₈O₆ (354.36). Yellow crystals (EtOAc-pet. ether), mp 226°C. Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 6, 1521, 2703, 4430.

**11589 6-Isopentenylxyloisobergaptin**

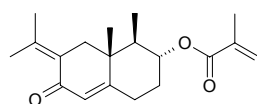
[24099-29-4] C₁₇H₁₆O₅ (300.31). mp 96~97°C. Source: YONG NING DU HUO *Heracleum yungningense*. Ref: 541.

**11590 8-(4'-Isopentenyl)-5,7,3',4'-tetrahydroxyflavone**

C₂₀H₁₈O₆ (354.36). mp 100°C. Source: CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*]. Ref: 6.

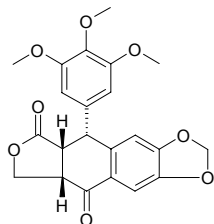
**11591 Isopetasin**

C₂₀H₂₈O₃ (316.44). mp 95~96°C. Pharm: Antispasmodic. Source: ZI FENG DOU CAI *Petasites officinalis* [Syn. *Petasites hybridu*], FENG DOU CAI *Petasites japonicus*, KA BU LI FENG DOU *Petasites kablikianus*, DUO CHI QIAN LI GUANG *Senecio polyodon*. Ref: 6, 658.

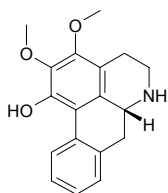


11592 Isopropodophyllone

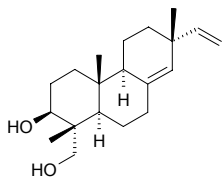
[55515-07-6] C₂₂H₂₀O₈ (412.40). Needles (MeOH), mp 170~172°C, [α]_D = -273° (CHCl₃). Source: LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], WO ER QI *Diphylleia sinensis* (rhizome: content scope of 4 origins = 0.015%~0.109%, mean content = 0.063%). Ref: 5, 5508.

**11593 (-)-Isopiline**

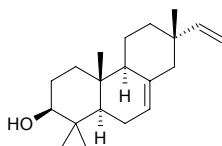
C₁₈H₁₉NO₃ (297.36). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem). Ref: 3083.

**11594 8(14),15-Isopimaradien-3β,19-diol**

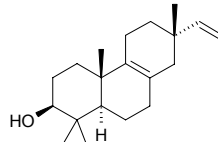
C₂₀H₃₂O₂ (304.48). Colorless oil, [α]_D²⁵ = -23° (c = 1.18, CHCl₃), [α]_D²³ = -17 (CHCl₃). Pharm: Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (28.4±1.4)μg/mL = (93.3±4.6)μmol/L). Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 3022.

**11595 Isopimara-7,15-dien-3β-ol**

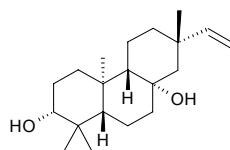
C₂₀H₃₂O (288.48). Amorphous powder, [α]_D²² = +15° (c = 0.1, CH₂Cl₂). Pharm: Cytotoxic (HeLa, IC₅₀ = (25.3±3.3)μg/mL, control Camptothecin, IC₅₀ = 0.5μmol/mL; HL-60, IC₅₀ = (28.9±4.0)μg/mL, Camptothecin, IC₅₀ = 0.1μmol/mL; WI-38, IC₅₀ = (32.6±3.6)μg/mL, Camptothecin, IC₅₀ = 0.6μmol/mL). Source: ZAN BI XI BADOU *Croton zambesicus* (leaf). Ref: 3807.

**11596 8(9),15-Isopimaradien-3β-ol**

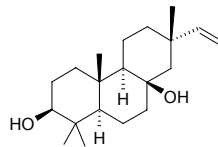
C₂₀H₃₂O (288.48). Colorless oil, [α]_D²⁵ = +105° (c = 0.36, CHCl₃), [α]_D²⁵ = +92° (c = 0.82, CHCl₃). Pharm: Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (7.1±0.6)μg/mL = (24.6±2.1)μmol/L). Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 3022.

**11597 ent-Isopimara-15-en-α,α-diol**

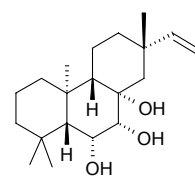
C₂₀H₃₄O₂ (306.49). White amorphous powder, [α]_D²⁵ = +3° (c = 1.0, CHCl₃). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*] (leaf). Ref: 4203.

**11598 15-Isopimaren-3β,8β-diol**

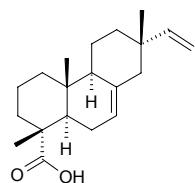
C₂₀H₃₄O₂ (306.49). Colorless oil, [α]_D²⁵ = -9° (c = 0.36, CHCl₃), [α]_D²⁵ = +3° (c = 1.0, CHCl₃). Pharm: Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (24.8±2.1)μg/mL = (80.9±6.9)μmol/L). Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 3022.

**11599 ent-Isopimar-15-en-6α,7α,8α-triol**

C₂₀H₃₄O₃ (322.49). mp 169.5~170°C, [α]_D²⁰ = +7.7° (c = 0.40, MeOH). Source: XIAO YE XIANG CHA CAI *Isodon parvifolia*. Ref: 4067.

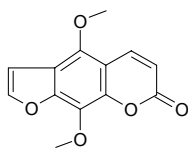
**11600 Isopimaric acid**

Isodextropimaric acid; Micropinic acid [5835-26-7] C₂₀H₃₀O₂ (302.46). Pharm: Cytotoxic inactive (KB oral epidermoid carcinoma, ED₅₀ > 10μg/mL, Hep3B hepatoma cells, ED₅₀ > 10μg/mL, HeLa, ED₅₀ > 10μg/mL, Colon205, ED₅₀ > 10μg/mL)^[4253]. Source: CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig), CHANG YE SONG *Pinus palustris*, JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 660, 1521, 4253.

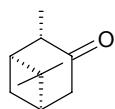


11601 Isopimpinellin

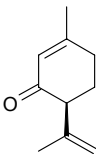
5,8-Dimethoxy-6,7-furanocoumarin [482-27-9] C₁₃H₁₀O₅ (246.22). Golden~yellow needles (MeOH), mp 151°C, mp 147~148°C; yellow amorphous powder. **Pharm:** Antineoplastic (inhibits proliferation of HeLa cell); cytotoxic (24h: HL-60, IC₅₀ > 50µg/mL, control Adriamycin IC₅₀ < 0.10µg/mL; P₃₈₈, IC₅₀ > 50µg/mL, Adriamycin IC₅₀ < 0.10µg/mL; Colon205, IC₅₀ = 39.2µg/mL, Adriamycin IC₅₀ = 0.63µg/mL; HeLa, IC₅₀ > 50µg/mL, Adriamycin IC₅₀ = 0.15µg/mL)^[5486]; antileishmanial (*Leishmania major* promastigote, 10µmol/L, survival = (99.1±1.8)%, 1µmol/L, survival = (97.6±3.2)%, control Amphotericin B, 10µmol/L, survival = (0.2±0.04)%, 1µmol/L, survival = (71.9±4.4)%; *Leishmania major* amastigote, 10µmol/L, survival = (79.0±4.2)%, 1µmol/L, survival = (91.7±4.5)%, control Amphotericin B, 10µmol/L, survival = (0.4±0.02)%, 1µmol/L, survival = (0.5±0.03)%)^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2µg)^[3797]. **Source:** CHOU CAO *Ruta graveolens*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], JU YUAN YE *Citrus medica*, LANG DU *Stellera chamaejasme*, SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 14 origins = 0.121%^[5508]), YONG NING DU HUO *Heracleum yungningense*, *Niphogeton ternata*, *Thamnosma rhodesica* (root). **Ref:** 6, 541, 1521, 1851, 3797, 4156, 5486, 5508.

**11602 Isopinocampnone**

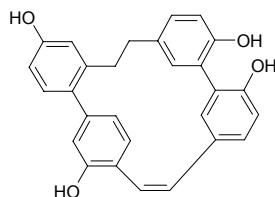
[14575-93-0] C₁₀H₁₆O (152.24). bp (+) 213.4~215.0°C, (-) 81°C/5mmHg. **Source:** JIN XIAN CAO *Glechoma longituba*. **Ref:** 6, 1521.

**11603 Isopiperitenone**

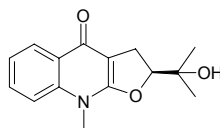
C₁₀H₁₄O (150.22). **Source:** AI YE *Artemisia argyi*. **Ref:** 660.

**11604 Isoplagiochin C**

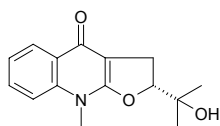
C₂₈H₂₂O₄ (422.49). [α]_D²⁰ = +42.5° (c = 0.2, MeOH). **Source:** WAN QU ZHI YE TAI *Lepidozia incurvata*. **Ref:** 3456.

**11605 (S)-(+)-Isoplatydesmine**

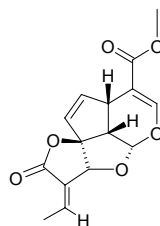
C₁₅H₁₇NO₃ (259.31). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 4.1µg/mL, control Mithramycin, ED₅₀ = 0.06µg/mL; HT29, ED₅₀ = 9.8µg/mL, Mithramycin, ED₅₀ = 0.07µg/mL; A549, ED₅₀ = 1.5µg/mL, Mithramycin, ED₅₀ = 0.08µg/mL). **Source:** SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. **Ref:** 5405.

**11606 Isoplatydesmine**

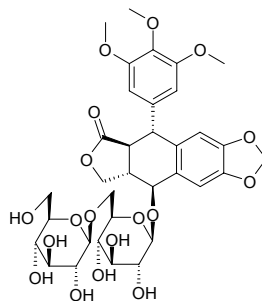
C₁₅H₁₇NO₃ (259.31). **Source:** CHOU SHAN YANG *Orixa japonica*, SAN CHA KU *Evodia lepta* [Syn. *Ilex lepta*]. **Ref:** 660.

**11607 Isoplumericin**

[31298-76-7] C₁₅H₁₄O₆ (290.28). mp 200.5~201.5°C (dec), [α]_D = +216.4°±2° (c = 1.01, chloroform). **Pharm:** Antibacterial (*Mycobacterium tuberculosis*); antifungal. **Source:** RUAN ZHI HUANG CHAN *Allenmanda cathartica*. **Ref:** 658.

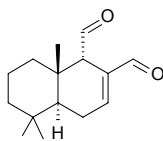
**11608 Isopodophyllotoxin 7'-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

C₃₄H₄₂O₁₈ (738.70). Colorless needles, [α]_D²⁹ = -45.67° (c = 0.6, MeOH). **Source:** TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (root and rhizome). **Ref:** 3543.

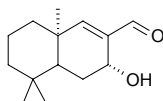


11609 Isopolygodial

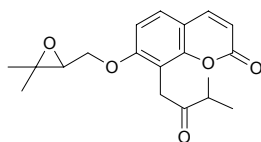
Isotadeonal C₁₅H₂₂O₂ (234.34). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 6, 660.

**11610 Isopolygonal**

C₁₄H₂₂O₂ (222.33). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

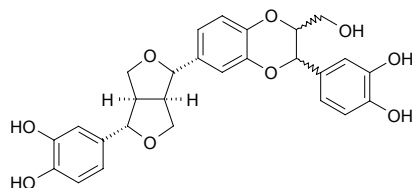
**11611 Isoponceimarín**

C₁₉H₂₂O₅ (330.38). Source: GOU JU *Poncirus trifoliata* (unripe fruit). Ref: 660.

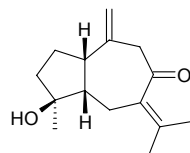
**11612 Isoprincepin**

rel-(7 α ,7 α ,8 α ,8 α ,7 α ,8 β)-3',7'':7,9':7,9-triepoxo-4'8''-oxy-8,8'-sesquieolignan-3,3',4,4'',9''-pentaol and *rel*-(7 α ,7 α ,8 α ,8 α ,7 β ,8 α)-3',7'':7,9':7,9-Triepoxo-4'8''-oxy-8,8'-sesquieolignan-3,3',4,4'',9''-pentaol) C₂₇H₂₆O₉ (494.50). Colorless amorphous solid.

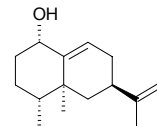
Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

**11613 Isoprocurcumenol**

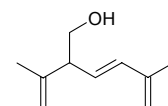
C₁₅H₂₂O₂ (234.34). Pharm: NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (20.6 \pm 2.9)%), control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.05$)^[4150]. Source: JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 660, 4150.

**11614 6-Isopropenyl-4,4a-dimethyl-1,2,3,4,4a,5,6,7-octahydro-naphthalen-1-ol**

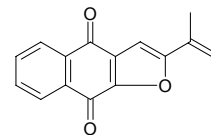
C₁₅H₂₄O (220.36). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC₅₀ = 48 μ mol/L; control *L*-NMMA, IC₅₀ = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = -8.0%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0020%dw). Ref: 4655.

**11615 2-Isopropenyl-5-methylhexa-trans-3,5-dien-1-ol**

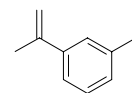
C₁₀H₁₆O (152.24). Colorless oil. Source: WA SI YA NA SAN CHI HAO *Artemisia tridentata* ssp. *vaseyana*, NIAN HAO *Artemisia cana* ssp. *viscidula*. Ref: 1980.

**11616 2-Isopropenyl naphtho[2,3-b]furan-4,9-quinone**

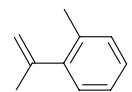
C₁₅H₁₀O₃ (238.25). Source: CAI DOU SHU *Radermachera sinica*. Ref: 660.

**11617 m-Isopropenyl toluene**

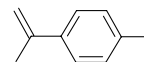
C₁₀H₁₂ (132.21), bp 185~186°C. Source: JU PI *Citrus reticulata*. Ref: 6.

**11618 o-Isopropenyl toluene**

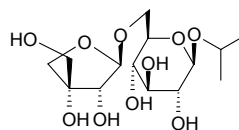
[7399-49-7] C₁₀H₁₂ (132.21), bp 172~173°C. Source: JU PI *Citrus reticulata*. Ref: 6.

**11619 p-Isopropenyl toluene**

[1195-32-0] C₁₀H₁₂ (132.21), mp -20°C, bp 184~185°C. Source: JU PI *Citrus reticulata*. Ref: 6.

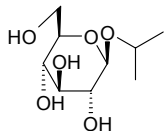
**11620 Isopropyl β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

C₁₄H₂₆O₁₀ (354.36). Amorphous powder, $[\alpha]_D^{24} = -66^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

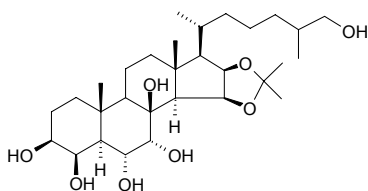


11621 Isopropyl β -D-glucopyranoside

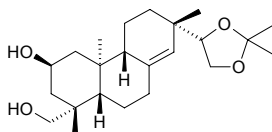
$C_9H_{18}O_6$ (222.24). mp 129~131°C, $[\alpha]_D^{21} = -36^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**11622 15 β ,16 β -Isopropylidenedioxy-5 α -cholest-3 β ,4 β ,6 α ,7 α ,8 β ,26-hexaol**

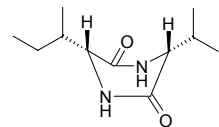
$C_{30}H_{52}O_8$ (540.74). Yellowish amorphous powder, mp 140~145°C, $[\alpha]_D^{18} = +8.5^\circ$ ($c = 1.06$, MeOH). Source: HAI YAN *Asterina pectinifera*. Ref: 4887.

**11623 Isopropyl idenekirenol**

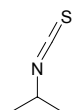
$C_{23}H_{38}O_4$ (378.56). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0008%). Ref: 4764.

**11624 3-Isopropyl-6-isobutyl-2,5-dioxopiperazine**

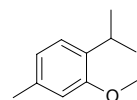
$C_{11}H_{20}N_2O_2$ (212.29). White amorphous powder (MeOH). Source: DONG CHONG XIA CAO *Cordyceps sinensis* (whole herb). Ref: 4462.

**11625 Isopropyl isothiocyanate**

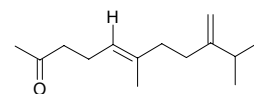
[2253-73-8] C_4H_7NS (101.17). bp 137.0~137.5°C. Source: JIE ZI *Brassica juncea*. Ref: 6.

**11626 2-Isopropyl-5-methylanisole**

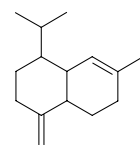
5-Methyl thymol ether [1076-56-8] $C_{11}H_{16}O$ (164.25). bp 216°C. Source: FENG DOU CAI *Petasites japonicus*, PEI LAN *Eupatorium fortunei*, XI XIN *Asarum sieboldii*, WU WEI ZI *Schisandra chinensis*. Ref: 2, 6, 1466, 1467, 1468.

**11627 (E)-9-Isopropyl-6-methyl-5,9-decadiene-2-one**

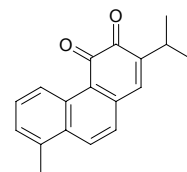
[64854-44-0] $C_{14}H_{24}O$ (208.35). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 2.

**11628 1-Isopropyl-4-methylene-7-methyl-1,2,3,4,4a,5,6,8a-octahydronaphthalene**

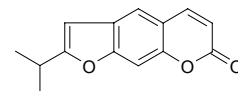
$C_{15}H_{24}$ (204.36). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**11629 2-Isopropyl-8-methylphenanthrene-3,4-dione (R₀-090680)**

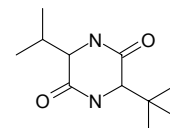
$C_{18}H_{16}O_2$ (264.33). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 660.

**11630 2'-Isopropyl-psoralen**

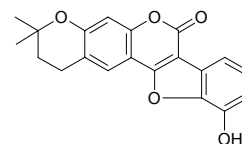
Anhydromarmesin $C_{14}H_{12}O_3$ (228.25). Source: *Stauranthus perforatus* (root). Ref: 5253.

**11631 3-Isopropyl-6-tert-butyl-2,5-piperazinedione**

$C_{11}H_{20}N_2O_2$ (212.29). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 660.

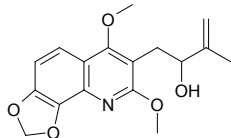
**11632 Isopsoralidin**

[3564-61-21] $C_{20}H_{16}O_5$ (336.35). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2, 545.

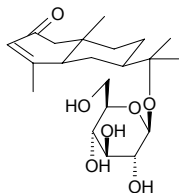


11633 Isoptelefolidine

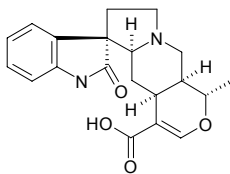
$C_{17}H_{19}NO_5$ (317.34). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.0004%dw). Ref: 4774.

**11634 (5R,7R,10S)-Isoptercarpolon β -D-glucopyranoside**

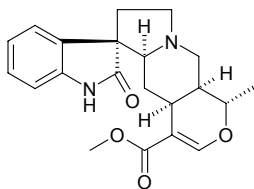
$C_{21}H_{35}O_7$ (398.50). Amorphous powder, $[\alpha]_D^{24} = +43^\circ$ ($c = 1.6$, MeOH). Source: CANG ZHU *Atractylodes lancea*. Ref: 4348.

**11635 Isopteropodic acid**

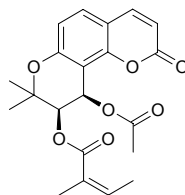
$C_{20}H_{22}N_2O_4$ (354.41). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 660, 5341.

**11636 Isopteropodine**

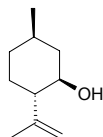
Uncarine E [5171-37-9] $C_{21}H_{24}N_2O_4$ (368.43). mp 204–209°C, $[\alpha]_D^{24} = -85.1^\circ$ ($c = 0.554$, chloroform). Pharm: Cytotoxic (SK-MEL, $IC_{50} > 50\mu\text{g/mL}$, control doxorubicin, $IC_{50} < 1.1\mu\text{g/mL}$; SK-OV-3, $IC_{50} > 50\mu\text{g/mL}$, doxorubicin, $IC_{50} = 1.9\mu\text{g/mL}$; KB, BT549, Vero, inactive)^[5161], cytotoxic (SK-MEL, KB, BT549, SK-OV-3 and Vero cell lines)^[5341]; cytotoxic (mammalian cell lines, $IC_{50} = 17\text{--}51\mu\text{g/mL}$)^[5341]; cytotoxic and DNA damaging activity (RS321 yeast assay, $IC_{12} = 140\mu\text{g/mL}$; RS322 yeast assay, $IC_{12} = 120\mu\text{g/mL}$)^[5341]; immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines)^[5341]; CNS activity (positively modulates both 5-HT2 receptor and muscarinic M1 receptor)^[5341]. Source: BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], PING HUA FA LIANG GOU TENG *Uncaria laevigata*, *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. Ref: 660, 900, 5161, 5341.

**11637 Isopteryxin**

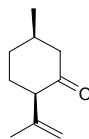
$C_{21}H_{22}O_7$ (386.41). Pharm: NO Production inhibitor (LPS-activated mouse peritoneal macrophages, $IC_{50} = 8.8\mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 28\mu\text{mol/L}$). Source: FEN CHA DANG GUI *Angelica furcujuga* (flower). Ref: 4454.

**11638 Isopulegol**

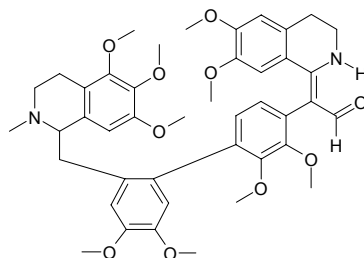
[7786-67-6] $C_{10}H_{18}O$ (154.25). bp (-) 94°C/14mmHg. Source: NING MENG AN YE *Eucalyptus citriodora*. Ref: 6.

**11639 Isopulegone**

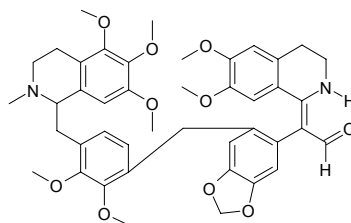
[529-00-0] $C_{10}H_{16}O$ (152.24). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2.

**11640 Isopyruthaldine**

$C_{44}H_{52}N_2O_{10}$ (768.91). Yellow amorphous solid, $[\alpha]_D = 0^\circ$ ($c = 0.16$, $CHCl_3$). Source: TANG SONG CAO ZHUANG BIAN GUO CAO *Isopyrum thalictroides* (root and rhizome). Ref: 5078.

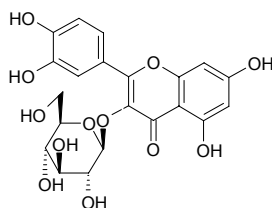
**11641 Isopythaldine**

$C_{43}H_{48}N_2O_{10}$ (752.87). Yellow amorphous solid, $[\alpha]_D = 0^\circ$ ($c = 0.21$, $CHCl_3$). Source: TANG SONG CAO ZHUANG BIAN GUO CAO *Isopyrum thalictroides* (root and rhizome). Ref: 5078.

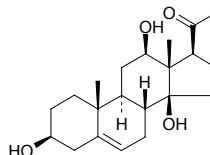


11642 Isoquercitrin

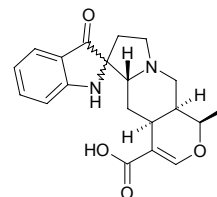
Isoquercitrin; Isoquercetin; Hirsutrin; Quercetin-3-*O*- β -D-glucopyranoside C₂₁H₂₀O₁₂ (464.39). Yellow crystals, mp 234–236°C. **Pharm:** Antibacterial (*Pseudomonas maltophilia*); diuretic; antihypertensive (rat); anti-inflammatory; phagostimulant (silkworm); antihepatotoxin (one of effective components in *Hypericum japonicum* DI ER CAO for curing hepatitis); antioxidant (DPPH free radical scavenger, EC₅₀ = 3.1 μ g/mL = 6.7 μ mol/L, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]; antioxidant (DPPH scavenger, IC₅₀ = (17.3 \pm 0.6) μ mol/L, control Trolox, IC₅₀ = (25.4 \pm 0.8) μ mol/L)^[4244]; antioxidant (DPPH scavenger, IC₅₀ = 33.2 μ mol/L; control Vitamin E, IC₅₀ = 8.3 μ mol/L)^[4722]; ACE inhibitor (IC₅₀ = 300 μ mol/L, control Lisinopril, IC₅₀ = 1 nmol/L); NEP inhibitor (IC₅₀ = 480 μ mol/L, control Phosphoramidon, IC₅₀ = 9 nmol/L); APN inhibitor inactive; aldose reductase inhibitor (IC₅₀ = 4.5 μ mol/L, control Epalrestat, IC₅₀ = 0.072 μ mol/L)^[4530]; antioxidant (DPPH scavenger, IC₅₀ = 12.1 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ = 11.1 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL)^[5239]. **Source:** BAI GUO YE *Ginkgo biloba*, BAI YE XIANG CHA CAI *Isodon leucophyllus*, BEI SHA SHEN *Glehnia littoralis* (underground part), BO NIANG HAO *Descurainia Sophia* (seeds), CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], CHAI HU *Bupleurum chinense*, DA CHAO CAI *Vicia sativa*, DA JIN QIAN CAO *Lysimachia christinae*, DI ER CAO *Hypericum japonicum*, DUO SUI LIAO *Polygonum polystachyum*, GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, HE YE *Nelumbo nucifera* (content scope of 46 origins = 0.10%–0.69%, mean content = 0.35%)^[5515], HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HONG MA *Apocynum lancifolium*, HU ZHANG YE *Polygonum cuspidatum*, HU ZHI ZI *Lespedeza bicolor*, HUAI *Sophora japonica* (pericarp)^[3080], HUANG GUA *Cucumis sativus*, HUANG HAI TANG *Hypericum ascyron*, HUANG HUA HAO *Artemisia annua*, HUANG SHU KUI HUA *Abelmoschus manihot*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], JIN ZHONG HUA *Forsythia viridissima*, LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaoensis* (leaf: yield = 0.00025%fw)^[4794], LAO SHU LE *Acanthus ilicifolius*, LAO YA SHI *Diospyros rhombifolia* (leaf), LIN WEN JING *Equisetum sylvaticum*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*], LUO BU MA *Apocynum venetum* (dried leaf: content scope of 6 origins = 0.082%–0.299%, mean content = 0.177%)^[5529], LUO LE *Ocimum basilicum*, MEI GUI HUA *Rosa rugosa*, MIAN HUA *Gossypium herbaceum*, MU MA HUANG *Casuarina equisetifolia*, MU ZEI *Equisetum hiemale* (aerial parts: mean content of 3 origins = 0.051%)^[5508], OU DANG GUI *Levisticum officinale*, PU TONG LU TI CAO *Pyrola decorata*, SAN BAI CAO *Saururus chinensis*, SANG YE *Morus alba* (leaf: content = 0.018%)^[5501], SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0018%fw)^[4689], SHI DI *Diospyros kaki*, SHI WEI *Pyrrosia lingua*, SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.06%dw)^[4722], TAO YE LIAO *Polygonum persicaria*, WEN JING *Equisetum arvense*, XI SHU *Camptotheca acuminata*, XIA YE BAI XIAN *Dictamnus angustifolius*, XIU MAO JI SHENG *Taxillus levinei*, XUAN FU HUA *Inula britannica*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), YOU SE ZI JIN NIU *Ardisia colorata* (fruit), YU XING CAO *Houttuynia cordata*, YUAN YE CHAI HU *Bupleurum rotundifolium*, occurs in many plants. **Ref:** 2, 658, 660, 1521, 2080, 2489, 2548, 3080, 3507, 4013, 4097, 4154, 4205, 4244, 4464, 4530, 4689, 4722, 4794, 5034, 5239, 5501, 5508, 5515, 5529.

**11643 Isoramanone**

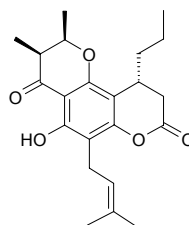
[4644-99-9] C₂₁H₃₂O₄ (348.49). mp 220.0–223.4°C. **Source:** FU SHOU CAO *Adonis amurensis*, LUO MO *Metaplexis japonica*. **Ref:** 6.

**11644 3-Isoraunicine pseudoindoxyl**

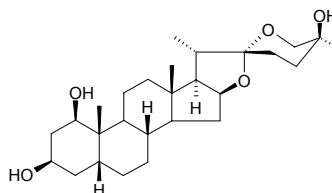
C₂₀H₂₂N₂O₄ (354.41). **Source:** TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

**11645 Isorecedensolide**

C₂₂H₂₈O₅ (372.47). Yellow oil, [α]_D²⁵ = +47.0° (c = 1.0, CH₂Cl₂). **Pharm:** Cytotoxic (KB, ED₅₀ = 9.37 μ g/mL, HeLa, ED₅₀ = 9.89 μ g/mL, hmn medulloblastoma, ED₅₀ = 11.79 μ g/mL, control Doxorubicin, ED₅₀ = 0.15 μ g/mL, 0.14 μ g/mL, 0.19 μ g/mL respectively)^[4274]. **Source:** *Calophyllum blancoi* (seed). **Ref:** 4274.

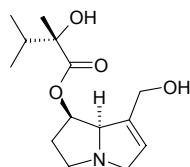
**11646 Isoreineckiagenin**

C₂₇H₄₄O₅ (448.65). mp 240–242°C. **Source:** JI XIANG CAO *Reineckea carnea*. **Ref:** 6.

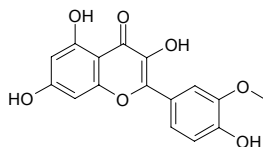


11647 Isoretrohoustine

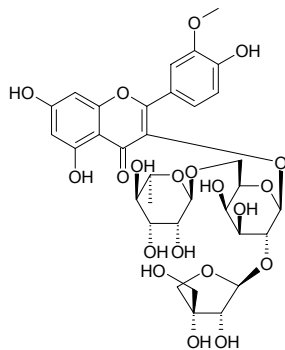
O^7 -(2*S*-2-Hydroxy-2,3-dimethyl-butanoyl) C₁₄H₂₃NO₄ (269.34). Source: XIONG ER CAO *Ageratum houstonianum* (aerial parts). Ref: 5173.

**11648 Isorhamnetin**

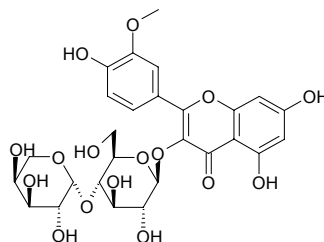
Quercetin 3'-methyl ether [480-19-3] C₁₆H₁₂O₇ (316.27). Yellowish rhombic crystals (dilute methanol), mp 305°C (dec), 312°C. Pharm: Antihepatotoxin (rat liver damage caused by CCl₄); coronary vasodilator; antihypercholesterolemic (rat serum and liver, reduces the level of cholesterol in serum); antioxidant (lipid peroxidation inhibitor); antioxidant (*in vitro*, PEP inhibitor, IC₅₀ = (18.94±0.25)μmol/L, control Bacitracin, IC₅₀ = (129.26±3.28)μmol/L)^[4923]; platelet aggregation inhibitor (*in vitro*). Source: BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content collected in Apr., May and Sep. = 0.055%)^[5508], BO NIANG HAO *Descurainia Sophia* (seeds), CHE SANG ZI YE *Dodonaea viscosa*, CHENG LIU *Tamarix chinensis*, CU LIU GUO *Hippophae rhamnoides* (leaf: content = 0.005%)^[5508], GANG MAO CHENG LIU *Tamarix hispida* (aerial parts), HONG CHE ZHOU CAO *Trifolium pratense*, HUAI JIAO *Sophora japonica*, HUANG HUA HAO *Artemisia annua*, HUI GUO JIAO GU LAN *Gynostemma yixingense*, KUAN YE XIANG PU *Typha latifolia*, LAN YU BAI JI *Bletilla formosana* (whole herb), PU HUANG *Typha angustata*, SHI ZHI JIA *Sedum sarmentosum* (whole herb: mean content of 10 origins = 0.028%)^[5532], SHUI QIN *Oenanthe javanica*, XIA YE XIANG PU *Typha angustifolia*, YIN CHEN HAO *Artemisia capillaris*, ZHONG GUO SHA JI *Hippophae rhamnoides* subsp. *sinensis* (leaf: content = 0.002%)^[5508]. Ref: 2, 660, 900, 2548, 4500, 4923, 5508, 5532.

**11649 Isorhamnetin 3-O-β-D-apiofuranosyl-(1'''→2'')[α-L-rhamnopyranosyl-(1''''→6'')]-β-D-galactopyranoside**

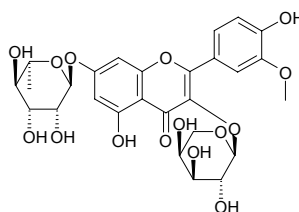
C₃₃H₄₀O₂₀ (756.67). Source: *Hammada scoparia* [syn. *Arthrophytum scoparium*; *Haloxylon articulatum* ssp. *scoparium*; *Haloxylon scoparium*] (leaf). Ref: 4228.

**11650 Isorhamnetin-3-arabinoglucoside**

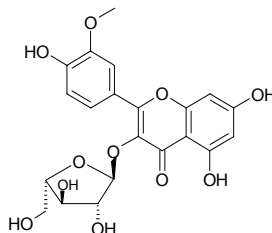
C₂₇H₃₀O₁₆ (610.53). Source: NING MENG PI *Citrus limon*. Ref: 6, 660.

**11651 Isorhamnetin-3-arabino-7-rhamnoside**

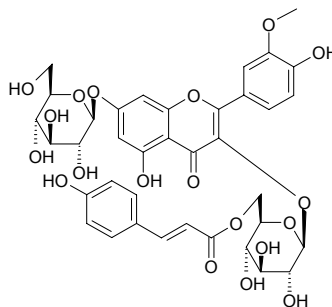
C₂₇H₃₀O₁₅ (594.53). Source: GUI ZHU XIANG *Cheiranthus cheiri*. Ref: 660.

**11652 Isorhamnetin-3-α-L-arabofuranoside**

C₂₁H₂₀O₁₁ (448.39). Source: GUI JIAN JIN JI ER *Caragana jubata*. Ref: 6.

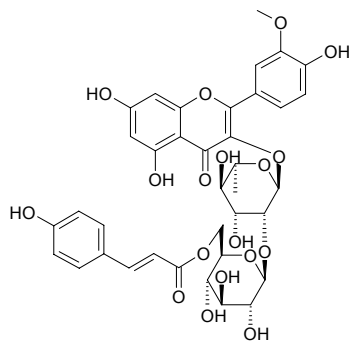
**11653 Isorhamnetin 3-O-β-(6''-E-p-coumaroylglucopyranoside)-7-O-β-glucopyranoside**

C₃₇H₃₈O₁₉ (786.70). Dull yellow amorphous powder. Source: DUO YE BAI MAI GEN *Lotus polyphyllus*. Ref: 1973.



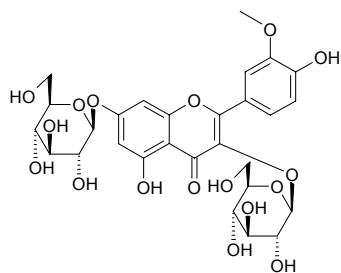
11654 Isorhamnetin 3-O- α -L-[6'''-p-coumaroyl- β -D-glucopyranosyl-(1,2)-rhamnopyranoside]

$C_{37}H_{38}O_{18}$ (770.70). Pale yellow amorphous powder. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 17.9\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.6\mu\text{g/mL}$; Cytochrome-C reduction, $IC_{50} = 17.5\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.0\mu\text{g/mL}$). **Source:** BAI GUO YE *Ginkgo biloba*. **Ref:** 5239.



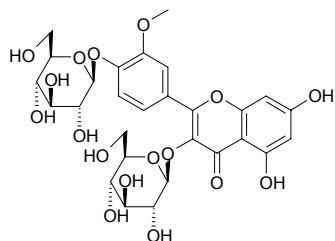
11655 Isorhamnetin 3,7-O-di- β -D-glucopyranoside

$C_{28}H_{32}O_{17}$ (640.56). **Source:** SHI ZHI JIA *Sedum sarmentosum* (whole herb: mean content of 2 origins = 0.031%)^[5508], WU QING *Brassica rapa*^[191]. **Ref:** 191, 5508.



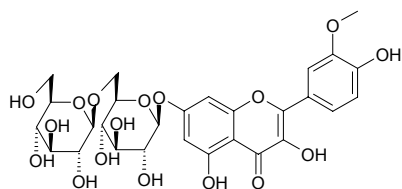
11656 Isorhamnetin-3,4'-diglucoside

$C_{28}H_{32}O_{17}$ (640.56). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 1.84\text{mmol/L}$; control Kojic acid, $IC_{50} = 235.2\mu\text{mol/L}$). **Source:** ZANG HONG HUA *Crocus sativus* (pollen). **Ref:** 4233.



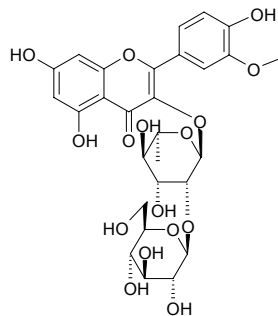
11657 Isorhamnetin-7- β -D-gentiobioside

$C_{28}H_{32}O_{17}$ (640.56). Yellowish grained powder (MeOH), mp 216~218°C. **Source:** BO NIANG HAO *Descurainia Sophia* (seed). **Ref:** 4829.



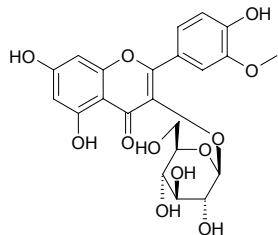
11658 Isorhamnetin 3-O- β -D-glucopyranosyl-(1-2)- α -L-rhamnopyranoside

$C_{28}H_{32}O_{16}$ (624.56). Yellow powder, mp 170~172°C. **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} > 100\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.6\mu\text{g/mL}$; Cytochrome-C reduction, $IC_{50} > 50\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.0\mu\text{g/mL}$)^[5239]. **Source:** BAI GUO YE *Ginkgo biloba*. **Ref:** 850, 5239.



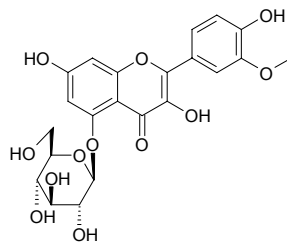
11659 Isorhamnetin-3-O-glucoside

[5041-82-7] $C_{22}H_{22}O_{12}$ (478.41). mp 177~179°C. **Pharm:** Cytotoxic (*in vitro*, HL-60 $IC_{50} = 2.24\mu\text{g/mL}$, PC-3M-1E8 $IC_{50} > 10\mu\text{g/mL}$, BGC823 $IC_{50} > 10\mu\text{g/mL}$, MDA-MB-435 $IC_{50} > 10\mu\text{g/mL}$, Bel7402 $IC_{50} > 10\mu\text{g/mL}$, HeLa $IC_{50} > 10\mu\text{g/mL}$). **Source:** BO NIANG HAO *Descurainia Sophia* (seeds), JIN ZHAN JU *Calendula officinalis* (flower), TIAN CONG *Philydrum lanuginosum*, YIN CHEN HAO *Artemisia capillaris*, ZHEN ZHU MEI *Sorbaria sorbifolia*, TENG HUANG *Garcinia morella*, ZANG HONG HUA *Crocus sativus* (pollen). **Ref:** 2, 6, 2548, 3551, 4233.



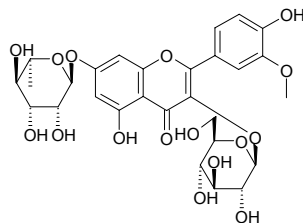
11660 Isorhamnetin-5-O-glucoside

[34199-20-7] $C_{22}H_{22}O_{12}$ (478.41). **Source:** LU CAO *Rhaponticum carthamoides*. **Ref:** 1521.



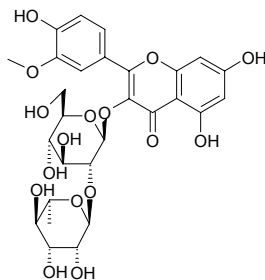
11661 Isorhamnetin-3-O-glucosyl-7-O-rhamnoside

$C_{28}H_{32}O_{16}$ (624.56). **Source:** GUI ZHU XIANG *Cheiranthus cheiri*. **Ref:** 660.

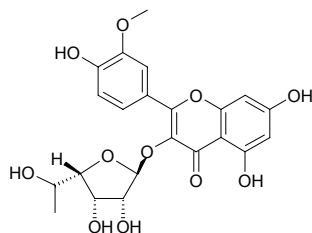


11662 Isorhamnetin-3-O-neohesperidoside

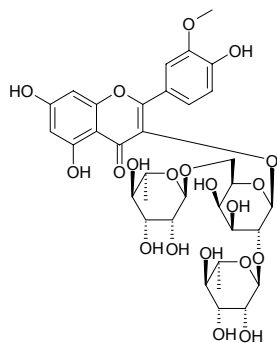
$C_{28}H_{32}O_{16}$ (624.56). Source: JIN ZHAN JU *Calendula officinalis* (flower), KUAN YE XIANG PU *Typha latifolia* (dried pollen: content = 0.331%^[5508]), PU HUANG *Typha angustata* (dried pollen: content = 0.426%^[5508]). Ref: 2, 660, 3551, 5508.

**11663 Isorhamnetin-3- α -L-rhamnofuranoside**

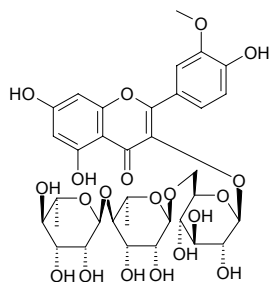
$C_{22}H_{22}O_{11}$ (462.41). Source: GUI JIAN JIN JI ER *Caragana jubata*. Ref: 6.

**11664 Isorhamnetin 3-O- α -L-rhamnopyranosyl-(1''' \rightarrow 2'')- α -L-rhamnopyranosyl-(1'''' \rightarrow 6'')- β -D-galactopyranoside**

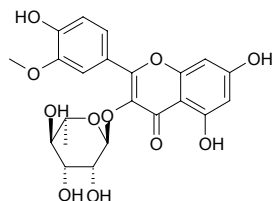
$C_{34}H_{42}O_{20}$ (770.70). Source: *Hammada scoparia* [syn. *Arthrophytum scoparium*; *Haloxylon articulatum* ssp. *scoparium*; *Haloxylon scoparium*] (leaf). Ref: 4228.

**11665 Isorhamnetin 3-O-[α -rhamnopyranosyl-(1 \rightarrow 4)- α -rhamnopyranosyl-(1 \rightarrow 6)- β -glucopyranoside]**

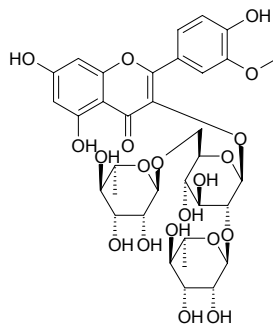
$C_{34}H_{42}O_{20}$ (770.70). Source: HUA LING CAO *Eschscholzia californica*. Ref: 1898.

**11666 Isorhamnetin 3-O-rhamnoside**

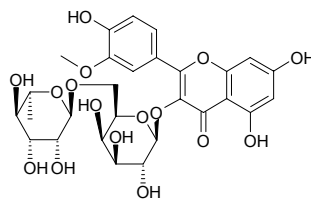
$C_{22}H_{22}O_{11}$ (462.41). Pharm: Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC_{50} = 19 μ mol/L; control Epalrestat, IC_{50} = 0.072 μ mol/L). Source: BAI MEI HUA *Prunus mume* (flower: yield = 0.0013%fw). Ref: 4641.

**11667 Isorhamnetin 3-O-2^G-rhamnosylrutinoside**

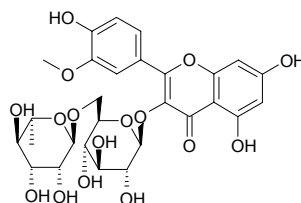
$C_{34}H_{42}O_{20}$ (770.70). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 3551.

**11668 Isorhamnetin-3-O-robinobioside**

[107740-46-5] $C_{28}H_{32}O_{16}$ (624.56). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

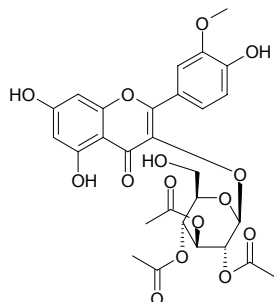
**11669 Isorhamnetin-3-O-rutinoside**

Isorhamnetin 3-O-(6''-O- α -L-rhamnopyranosyl)- β -D-glucopyranoside $C_{28}H_{32}O_{16}$ (624.56). Pharm: Antioxidant (DPPH scavenger, IC_{50} > 100 μ g/mL, control Gallic acid, IC_{50} = 3.6 μ g/mL; Cytochrome-C reduction, IC_{50} > 50 μ g/mL, control Gallic acid, IC_{50} = 3.0 μ g/mL)^[5239]. Source: BAI GUO YE *Ginkgo biloba*, JIN ZHAN JU *Calendula officinalis* (flower), LV DOU *Onobrychis viciifolia* (leaf), KUAN YE XIANG PU *Typha latifolia*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0012%dw)^[3026]. Ref: 2, 3026, 3551, 5084, 5239.

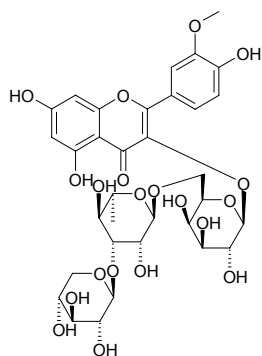


11670 Isorhamnetin 3-O-β-D-2'',3'',4''-triacetylglucopyranoside

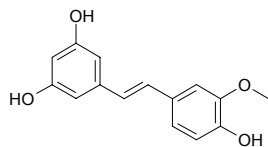
$C_{28}H_{28}O_{15}$ (604.53). Yellow amorphous powder. Source: *Warburgia stuhlmannii* (leaf). Ref: 3398.

**11671 Isorhamnetin 3-O-β-D-xylopyranosyl-(1''''→3''')-α-L-rhamnopyranosyl-(1''''→6''')-β-D-galactopyranoside**

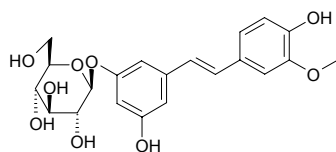
$C_{33}H_{40}O_{20}$ (756.67). Source: *Hammada scoparia* [syn. *Arthrophytum scoparium*; *Haloxylon articulatum* ssp. *scoparium*; *Haloxylon scoparium*] (leaf). Ref: 4228.

**11672 Isorhapontigenin**

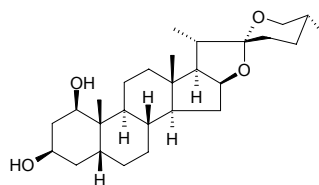
Anticancer Stilbenoid PMV70P691-140 [32507-66-7] $C_{15}H_{14}O_4$ (258.28). mp 182~183°C. Pharm: Antioxidant (superoxide anion scavenger (100μmol/L, InRt = (45.7±0.7)%), positive control (+)-Catechin, IC₅₀ = (3.67±0.14)μmol/L)^[4514]; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]. Source: MAO CI JIN JI ER *Caragana tibetica* (stem), XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*], CI JI NU ZONG LV *Aiphanes aculeata*. Ref: 660, 2233, 2234, 4514, 5038.

**11673 Isorhapontin**

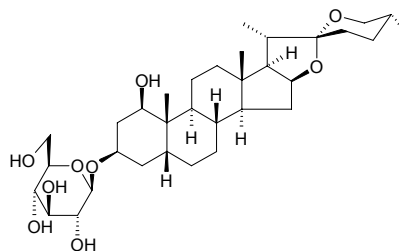
[32727-29-0] $C_{21}H_{24}O_9$ (420.42). Pharm: Antifungal (for protecting heartwood and bark). Source: OU ZHOU YUN SHAN *Picea abies*. Ref: 658.

**11674 Isorhodeasapogenin**

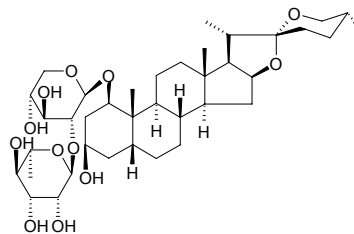
[472-10-6] $C_{27}H_{44}O_4$ (432.65). mp 239~240°C. Source: JI XIANG CAO *Reineckea carnea*, LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**11675 Isorhodeasapogenin-3-O-β-D-glucopyranoside**

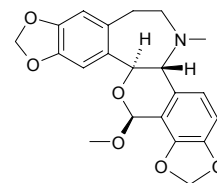
$C_{33}H_{54}O_9$ (594.79). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**11676 Isorhodeasapogenin-1-O-α-L-rhamnopyranosyl(1→2)-β-D-xylopyranoside**

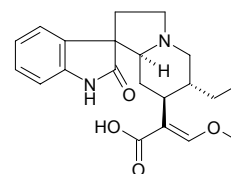
$C_{38}H_{62}O_{12}$ (710.91). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

**11677 Isorhoeadine**

[4046-21-3] $C_{21}H_{21}NO_6$ (383.40). mp 165~167°C. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*]. Ref: 6.

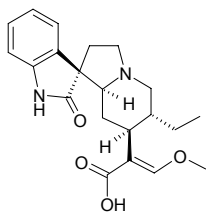
**11678 Isorhynchophyllic acid**

$C_{21}H_{26}N_2O_4$ (370.45). Source: HUA GOU TENG *Uncaria sinensis* Ref: 660, 5341.

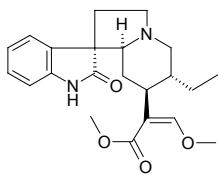


11679 Isorhynchophylline

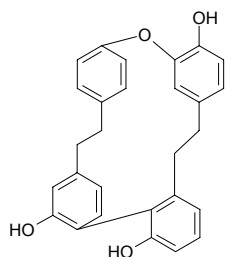
$C_{21}H_{26}N_2O_4$ (370.45). **Pharm:** Hypnosis (100mg/kg, prolongation of thiopental-induced hypnosis); CNS activity (significantly depresses locomotion response, may be central dopaminergic receptor antagonist); immunostimulant inactive. **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DA YE GOU TENG *Uncaria macrophylla*, FEI ZHOU GOU TENG *Uncaria africana*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HOU YE GOU TENG *Uncaria callophylla*, HUA GOU TENG *Uncaria sinensis*, PO LUO ZHOU GOU TENG *Uncaria borneensis*, SUAN GOU TENG *Uncaria acida*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*, XIN XING GOU TENG *Uncaria cordata*, *Uncaria bernaysii*, *Uncaria kunstleri*, *Uncaria sterrophylla*, *Uncaria talbotii*. **Ref:** 5341.

**11680 Isorhynchophylline**

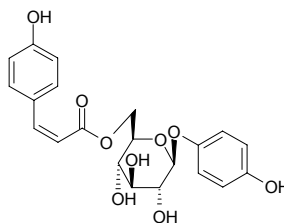
7-Isorhynchophylline [6859-01-4] $C_{22}H_{28}N_2O_4$ (384.48). mp 138–141°C, $[\alpha]_D^{24} = +7.8^\circ$ ($c = 0.42$, chloroform). **Pharm:** Calcium antagonist (potential dependent); immunoenhancer (promotes phagocytic function); antihypertensive (long acting); vasodilator (relaxes blood vessels and reduces consumption of oxygen in myocardium); slows heart rate (anesthetic rbt, inhibits heart conduction). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*] (hooked stem-branch: content = 0.049%), DA YE GOU TENG *Uncaria macrophylla*, HUA GOU TENG *Uncaria sinensis*. **Ref:** 2, 6, 660, 900, 1521, 5501.

**11681 Isoricardin C**

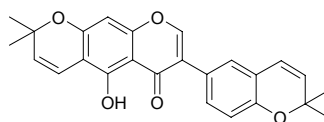
$C_{28}H_{24}O_4$ (424.50). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**11682 Isorobustaside A**

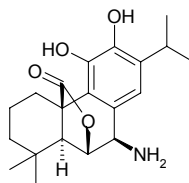
$C_{21}H_{22}O_9$ (418.40). Amorphous powder, $[\alpha]_D = -51.4^\circ$. **Source:** YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). **Ref:** 2583.

**11683 Isorobustone**

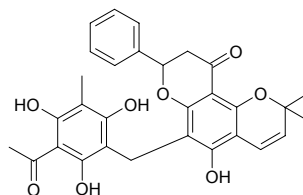
$C_{25}H_{22}O_5$ (402.45). **Pharm:** Antioxidant (DPPH scavenger, ScRt = 13.16%, control BHT, ScRt = 71.5%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128µg/mL, control Vancomycin, MIC = 0.5µg/mL; MRSA SK1, MIC > 128µg/mL, Vancomycin, MIC = 1.0µg/mL). **Source:** PAN YUAN YU TENG *Derris scandens* (stem). **Ref:** 3810.

**11684 Isorosmaricine**

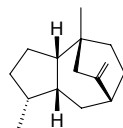
[33947-58-9] $C_{20}H_{27}NO_4$ (345.44). **Source:** MI DIE XIANG *Rosmarinus officinalis*. **Ref:** 6.

**11685 Isorottlerin**

$C_{30}H_{28}O_8$ (516.55). mp 180°C. **Source:** LV SONG QIU MAO *Mallotus philippinensis*. **Ref:** 6.

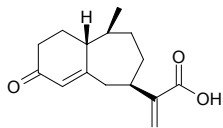
**11686 (-)-Isorotundene**

$C_{15}H_{24}$ (204.36). **Source:** XIANG FU *Cyperus rotundus* (essential oil). **Ref:** 5210.

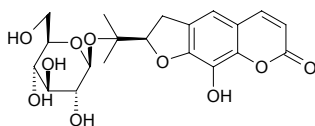


11687 Isorupestonic acid

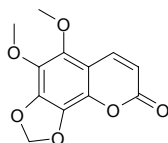
$C_{15}H_{20}O_3$ (248.32). Colorless bar crystals, mp 192~193°C, $[\alpha]_D^{14} = 11^\circ$ ($c = 0.62$, methanol). Source: XIN JIANG YI ZHI HAO *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*]. Ref: 196.

**11688 Isorutarin**

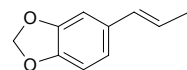
$C_{20}H_{24}O_{10}$ (424.41). Source: BAI HUA QIAN HU *Peucedanum praeruptorum*. Ref: 660.

**11689 Isosabandin**

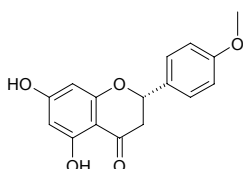
$C_{15}H_{10}O_6$ (250.21). Yellow fine needles (petroleum ether-EtOAc), mp 126~128°C. Source: BIN HAO *Artemisia maritima* (aerial parts). Ref: 4910.

**11690 Isosafrole**

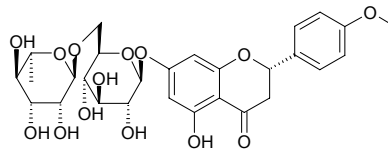
$C_{10}H_{10}O_2$ (161.19). Pharm: antihepatotoxin (promotes regeneration of liver tissue); toxin (hmn). Source: DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], YIN DU JIU LI XIANG *Murraya koenigii*, YI LAN *Cananga odorata*. Ref: 658.

**11691 Isosakuranetin**

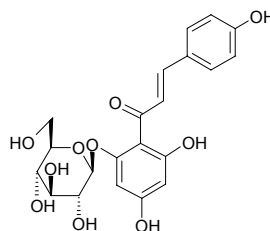
Ponciretin $C_{16}H_{14}O_5$ (286.29). Pharm: Passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β -hexosaminidase release from RBL-2H3 cells, $IC_{50} = (105 \pm 6.6) \mu\text{mol/L}$, control Azelastine, $IC_{50} = (35 \pm 2) \mu\text{mol/L}$; PCA reaction inhibitor, 5mg/kg orl, $\text{InRt} = (62 \pm 2\%)^{[5041]}$. Source: FEI JI CAO *Eupatorium odoratum*, FENG LUN CAI *Clinopodium chinense*, WU HE MI JU *Citrus unshiu* (pericarp). Ref: 660, 5041.

**11692 Isosakuranetin-7-rutinoside**

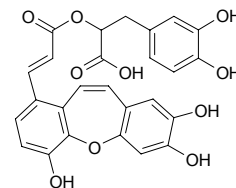
$C_{28}H_{34}O_{14}$ (594.57). mp 211~213°C. Source: TIAN CHENG *Citrus sinensis*. Ref: 6.

**11693 Isosalipurposide**

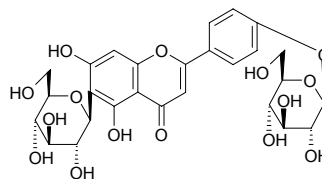
[4547-85-7] $C_{21}H_{22}O_{10}$ (434.40). mp 172~173°C. Source: SHUI YANG MU BAI PI *Salix purpurea*. Ref: 6.

**11694 Isosalvianolic acid C**

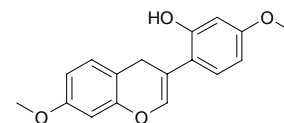
$C_{26}H_{20}O_{10}$ (492.44). Pharm: Antioxidant (*in vitro*, Cu^{2+} induced LDL peroxidation assay, $IC_{50} = 2.72 \mu\text{mol/L}$; control Probuocol, $IC_{50} = 4.7 \mu\text{mol/L}$). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.0026%). Ref: 4628.

**11695 Isosaponarin**

[19416-87-6] $C_{27}H_{30}O_{15}$ (594.53). mp 236~237°C. Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 6.

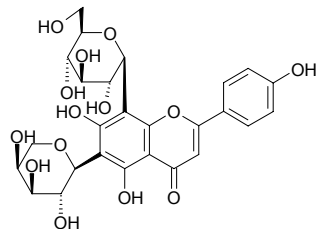
**11696 Isosativan**

[60102-29-6] $C_{17}H_{16}O_4$ (284.31). Source: KUN MING JI XUE TENG *Millettia dielsiana*. Ref: 2205.

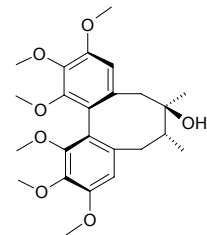


11697 Isoschaftoside

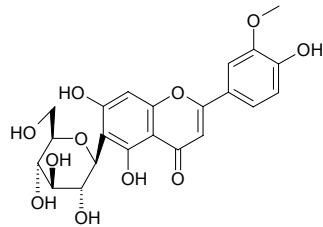
5,7,4'-Trihydroxy-6-C-arabinoside-8-C-glucoside flavone C₂₆H₂₈O₁₄ (564.50). **Source:** GAN CAO *Glycyrrhiza uralensis* (root and rhizome: mean content of 4 origins = 0.061%)^[5508], GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.12%)^[5508], HUANG QIN *Scutellaria baicalensis*, TIAN NAN XING *Arisaema consanguineum* (dried tuber: content scope of 3 origins = 0.0069%–0.0177%, mean content = 0.0105%)^[5508], YI YE TIAN NAN XING *Arisaema heterophyllum* (dried tuber: content scope of 7 origins = 0.0081%–0.0263%, mean content = 0.0193%)^[5508], ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.085%)^[5508], *Glycyrrhiza* sp. **Ref:** 1557, 2431, 5508.

**11698 Isoschizandrin**

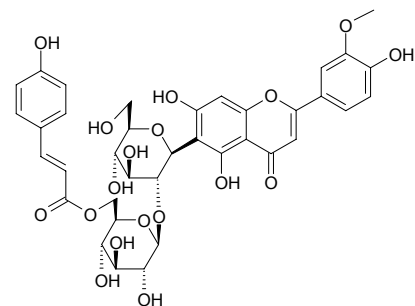
[114422-18-3] C₂₄H₃₂O₇ (432.52). Amorphous powder, [α]_D²⁵ = +92° (c = 1.22, CHCl₃). **Pharm:** Antiulcer agent. **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 1521.

**11699 Isoscoparin**

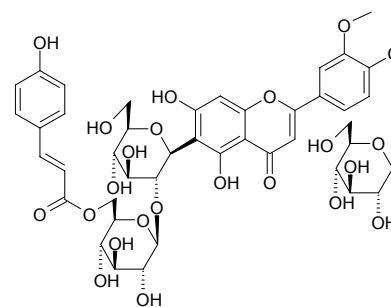
[20013-23-4] C₂₂H₂₂O₁₁ (462.41). **Pharm:** Phagostimulant (insect). **Source:** FU PING *Lemna minor*, FU YE YAN ZI CAI *Potamogeton natans*. **Ref:** 658.

**11700 Isoscoparin 2''-O-(6'''-(E)-p-coumaroyl)glucoside**

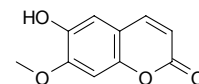
3'-Methoxyisovitexin 2''-O-(6'''-(E)-p-coumaroyl)-β-glucopyranoside C₃₇H₃₈O₁₈ (770.70). **Source:** HUANG GUA *Cucumis sativus* (leaf). **Ref:** 5181.

**11701 Isoscoparin 2''-O-(6'''-(E)-coumaroyl)glucoside-4'-O-glucoside**

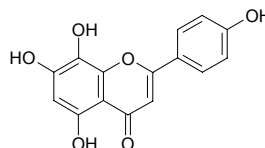
3'-Methoxyisovitexin 2''-O-(6'''-(E)-p-coumaroyl)-β-glucopyranoside-4'-O-β-glucopyranoside C₄₃H₄₈O₂₃ (932.85). **Source:** HUANG GUA *Cucumis sativus* (leaf). **Ref:** 5181.

**11702 Isoscooletin**

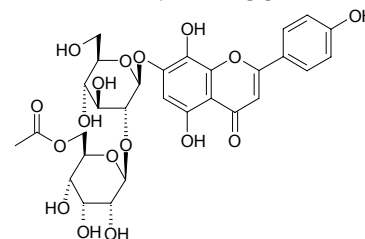
7-O-Methylesculetin C₁₀H₈O₄ (192.17). **Source:** HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG YANG MU YE *Buxus microphylla* var. *sinica*, YIN XIAN CAO *Chloranthus japonicus*. **Ref:** 660, 1385.

**11703 Isoscutellarein**

8-Hydroxyapigenin; 5,7,8,4'-Tetrahydroxyflavone [41440-05-5] C₁₅H₁₀O₆ (286.24). Yellow acicular crystals (ethanol), mp 300–301°C. **Pharm:** Inhibits influenza virus (inhibits replication of influenza virus A/WSN/33, IC₅₀ = 16nmol/L well); antioxidant (inhibits lipid peroxidation strongly, induced by Fe in mitochondria of rat hepatic cells, 0.5nmol/mg prot, MDA yielding rate = 43.5%, 5.0nmol/mg prot, MDA yielding rate = 0%, ED₅₀ < 0.5nmol/mg prot); aldose reductase inhibitor (IC₅₀ = 3.2μmol/L); α-glucosidase inhibitor (small intestine, 50μmol/L, InRt = 14%); AMV-reverse transcriptase inhibitor (0.1mmol/L, InRt = 22%); influenza virus sialoma inhibitor (91μg/mL, InRt = 91%). **Source:** HUANG QIN *Scutellaria baicalensis*, HAN XIN CAO *Scutellaria indica*. **Ref:** 900.

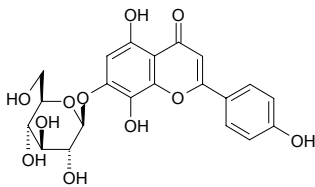
**11704 Isoscutellarein 7-O-(6'''-O-acetyl)-β-allopyranosyl(1'''→2'')-β-glucopyranoside**

C₂₉H₃₂O₁₇ (652.57). **Pharm:** Antioxidant (DPPH scavenger, DPPH radical 15μmol/L: 10μmol/L, ScRt = 40.5%; control BHA, 10μmol/L, ScRt = 23.0%; Vitamin E, 10μmol/L, ScRt = 41.1%). **Source:** JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*. **Ref:** 3846.

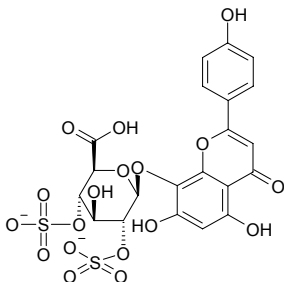


11705 Isoscutellarein 7-O-β-D-glucopyranoside

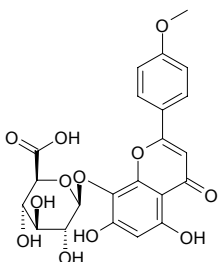
$C_{21}H_{20}O_{11}$ (448.39). Source: ZHEN XIAN *Bryum argenteum*. Ref: 660.

**11706 Isoscutellarein 8-O-β-D-glucuronide 2'',4''-disulfate**

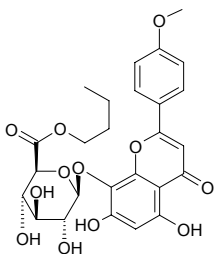
$C_{21}H_{16}O_{18}S_2^{2-}$ (620.48). Yellow amorphous powder, $[\alpha]_D^{21} = -82.4^\circ$ ($c = 0.43$, H_2O). Source: HUO SUO MA *Helicteres isora*. Ref: 756.

**11707 Isoscutellarein 4'-methyl ether 8-O-β-D-glucuronide**

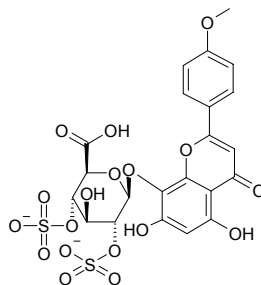
$C_{22}H_{20}O_{12}$ (476.40). Yellow amorphous powder, $[\alpha]_D^{21} = 10.5^\circ$ ($c = 0.4$, H_2O). Source: HUO SUO MA *Helicteres isora*. Ref: 756.

**11708 Isoscutellarein 4'-methyl ether 8-O-β-D-glucuronide 6''-n-butyl ester**

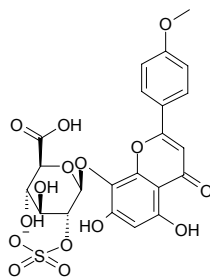
$C_{26}H_{28}O_{12}$ (532.51). Yellow amorphous powder, $[\alpha]_D^{21} = 73.2^\circ$ ($c = 0.13$, $MeOH$). Source: HUO SUO MA *Helicteres isora*. Ref: 756.

**11709 Isoscutellarein 4'-methyl ether 8-O-β-D-glucuronide 2'',4''-disulfate**

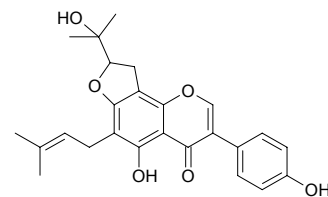
$C_{22}H_{18}O_{18}S_2^{2-}$ (634.51). Yellow amorphous powder, $[\alpha]_D^{21} = -98.4^\circ$ ($c = 1.22$, H_2O). Source: HUO SUO MA *Helicteres isora*. Ref: 756.

**11710 Isoscutellarein 4'-methyl ether 8-O-β-D-glucuronide 2''-sulfate**

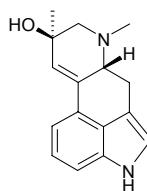
$C_{22}H_{19}O_{15}S^-$ (555.45). Yellow amorphous powder, $[\alpha]_D^{21} = -38.4^\circ$ ($c = 1.09$, H_2O). Source: HUO SUO MA *Helicteres isora*. Ref: 756.

**11711 Isosenegalensin**

5,4'-Dihydroxy-6-(3'''-methylbut-2'''-enyl)-2''-hydroxyisopropyl dihydrofuran[4'',5'':8,7]isoflavone $C_{25}H_{26}O_6$ (422.48). Yellow crystals ($CHCl_3$), mp $158^\circ C$. Source: AI JI ZAI PEI CI TONG *Erythrina lysistemon*. Ref: 1971.

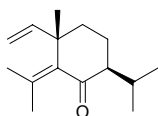
**11712 Isosetoclavine**

$C_{16}H_{18}N_2O$ (254.33). Source: MAI JIAO *Claviceps purpurea*. Ref: 660.

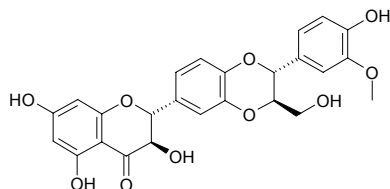


11713 Isoshyobunone

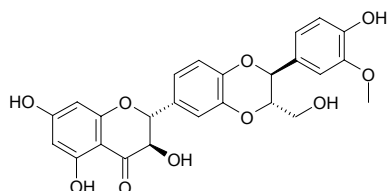
$C_{15}H_{24}O$ (220.36). Source: BAI CHANG *Acorus calamus*. Ref: 6.

**11714 Isosilybin A**

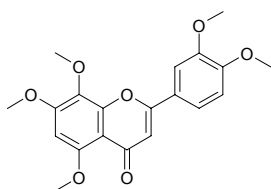
$C_{25}H_{22}O_{10}$ (482.45). Colorless needle crystals (MeOH-H₂O), mp 201~203°C, $[\alpha]_D = +48.15^\circ$ ($c = 0.27$, acetone). Source: SHUI FEI JI *Silybum marianum* (seed). Ref: 4719.

**11715 Isosilybin B**

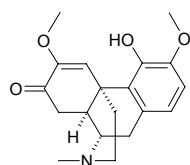
$C_{25}H_{22}O_{10}$ (482.45). Colorless needle crystals (MeOH-H₂O), mp 236~238°C, $[\alpha]_D = -23.55^\circ$ ($c = 0.31$, acetone). Source: SHUI FEI JI *Silybum marianum* (seed). Ref: 4719.

**11716 Isosinensetin**

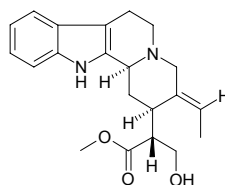
5,7,8,3',4'-Pentamethoxyflavone [17290-70-9] $C_{20}H_{20}O_7$ (372.37). Colorless rhombic crystals (methanol), mp 197.5~198.5°C; crystals (EtOH), mp 206~207°C. Pharm: Induces cell differentiation (mus myelocytic leukemia cells, 50μmol/L, growing rate = 78%, 5μmol/L, =89%, activity of macrophage of the former > 25%, HL-60 cells, 100μmol/L, growing rate = 42%, 50μmol/L, =62%, activity of macrophage of both > 10%). Source: HUA ZHOU YOU *Citrus grandis* var. *tomentosa*, JIAO GAN *Citrus tankan*, JIN GAN *Fortunella japonica*, JIN JU *Fortunella margarita*, JU PI *Citrus reticulata*, LAI MENG *Citrus aurantifolia*, OU *Nelumbo nucifera*, ZHI SHI *Citrus aurantium*. Ref: 6, 969, 979, 997, 2867, 2992.

**11717 Isosinomenine**

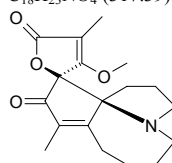
[510-42-9] $C_{19}H_{23}NO_4$ (329.40). mp (+) 198~202°C. Source: BAI CHANG *Acorus calamus*, QING FENG TENG *Sinomenium acutum*. Ref: 6, 660.

**11718 Isositsirikine**

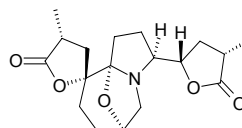
[6519-27-3] $C_{21}H_{26}N_2O_3$ (354.45). $[\alpha]_D^{25} = -20^\circ$ (CHCl₃). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], *Aspidosperma marcgravianum*. Ref: 6, 1521.

**11719 Isostemonamine**

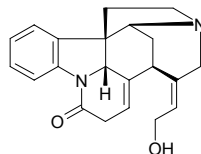
$C_{18}H_{23}NO_4$ (317.39). Source: ZHI LI BAI BU *Stemona sessilifolia*. Ref: 660.

**11720 Isostemetinine**

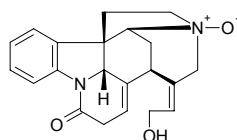
$C_{18}H_{23}NO_5$ (335.40). Source: BAI BU *Stemona tuberosa*. Ref: 660.

**11721 Isostrychnine**

[467-16-3] $C_{21}H_{22}N_2O_2$ (334.42). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2, 542.

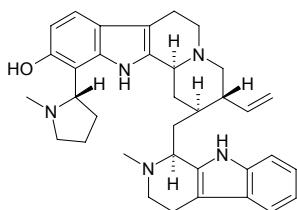
**11722 Isostrychnine N-oxide**

[130641-44-0] $C_{21}H_{22}N_2O_3$ (350.42). White powder, $[\alpha]_D = +15.1^\circ$ ($c = 0.002$, methanol). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 9.0μmol/L, hmn K562, IC₅₀ = 9.7μmol/L, hmn Hep2, IC₅₀ = 49μmol/L). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2, 1186, 1187.

**11723 Isostrychnopentamine**

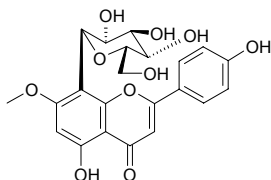
$C_{33}H_{43}N_5O$ (549.77). Pharm: Antiplasmodial (chloroquine-sensitive line: IC₅₀ = (120±42)nmol/L, IC₉₀ = 450nmol/L, Quinine: IC₅₀ = (269±6)nmol/L, IC₉₀ = 1910nmol/L; chloroquine-resistant line: IC₅₀ = (104±36)nmol/L, IC₉₀ = 386nmol/L, Quinine: IC₅₀ = (200±33)nmol/L, IC₉₀ = 2740nmol/L; moderately chloroquine-resistant line: IC₅₀ = (152±9)nmol/L, IC₉₀ = 628nmol/L, Quinine: IC₅₀ = (413±11)nmol/L, IC₉₀ = 1720nmol/L)^[4925]; antimalarial and cytotoxic (antiplasmodial, 5 kinds of *Plasmodium falciparum*: FCA 20 GHANA (CQS), IC₅₀ = (0.120±0.042)μmol/L, control Chloroquine IC₅₀ = (0.020±0.002)μmol/L; W2INDOCHINA (CQR), IC₅₀ = (0.152±0.009)μmol/L; FCB1 COLOMBIA (CQR-), IC₅₀ = (0.104±0.036)μmol/L, Chloroquine IC₅₀ =

(0.032±0.019)μmol/L; PFB(CQR+), IC₅₀ = (0.163±0.056)μmol/L, Chloroquine IC₅₀ = (0.540±0.330)μmol/L; F32(CQS), IC₅₀ = (0.046±0.005)μmol/L, Chloroquine IC₅₀ = (0.014±0.004)μmol/L; 4 kinds of hmn cell line: HCT116, IC₅₀ = (6.68±2.1)μmol/L, SI = 41~145; HCT15, IC₅₀ = (13.57±3.1)μmol/L, SI = 83~295; WI-38, IC₅₀ = 2.31μmol/L, SI = 15~50; KB, IC₅₀ = (19.4±3.5)μmol/L, SI = 119~421^[4987]. Source: DONG FEI MA QIAN *Strychnos usambarensis* (leaf). Ref: 4925, 4987.



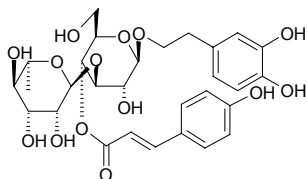
11724 Isoswertisin

5,4'-Dihydroxy-7-methoxyflavone 8-C-glucopyranoside; Vitexin 7-methyl ether; 8-C-Glucosylgenkwanin; Genkwanin 8-C-glucoside C₂₂H₂₂O₁₀ (446.41). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00039%dw). Ref: 4743.



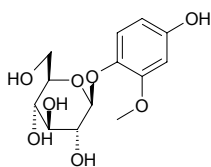
11725 Isosyringalide 3'-α-L-rhamnopyranoside

C₂₉H₃₆O₁₄ (608.60). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*. Ref: 2448.



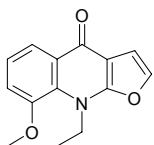
11726 Isotachioside

C₁₃H₁₈O₈ (302.28). White powder. Source: XIAO YE SHI NAN *Photinia parvifolia* (stem). Ref: 4553.



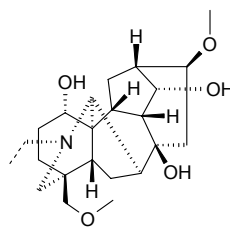
11727 Isotaifine

[84323-09-1] C₁₄H₁₃NO₃ (243.26). Needles (pet. ether), mp 123-125°C. Source: SUI ZHUANG YUN XIANG *Ruta chalepensis*. Ref: 1521.



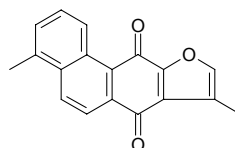
11728 Isotalatizidine

C₂₃H₃₇NO₅ (407.56). Source: LU CUI QUE *Delphinium denudatum*, FU ZI *Aconitum carmichaeli*, RI BEN WU TOU *Aconitum japonicum*, TA LA WU TOU *Aconitum talassicum*, WU TOU *Aconitum carmichaeli*, ZI SHAN *Taxus cuspidata*. Ref: 660, 1521.



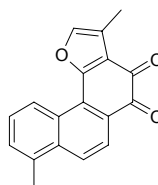
11729 Isotanshinone I

[20958-17-2] C₁₈H₁₂O₃ (276.29). mp 219°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2.



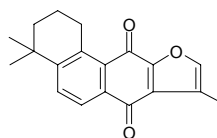
11730 Isotanshinone II

11,16-Oxy-18,20-dinor-1,3,5(10),6,8,11,15-abietaheptaene-13,14-dione [98249-39-9] C₁₈H₁₂O₃ (276.29). Orange crystals (CHCl₃), mp 291~293°C. Source: JIAO ZHI SHU WEI CAO *Salvia glutinosa* (dried root). Ref: 2384.



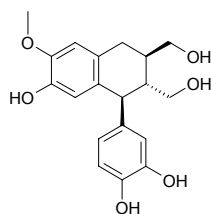
11731 Isotanshinone IIA

[20958-15-0] C₁₉H₁₈O₃ (294.35). mp 208°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2.



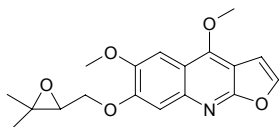
11732 Isotaxiresinol

C₁₉H₂₂O₆ (346.38). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 21.7μmol/L, control Caffeic acid, IC₅₀ = 25.5μmol/L)^[5407]; NO production inhibitor (IC₅₀ = 148μmol/L, control L-NMMA, IC₅₀ = 28.5μmol/L)^[5407]. Source: ZI SHAN *Taxus cuspidata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.918%dw). Ref: 660, 4661, 5407.

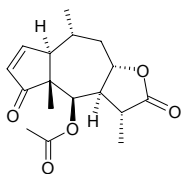


11733 Isotecleoxine

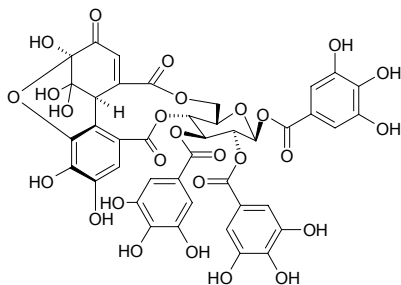
$C_{18}H_{19}NO_5$ (329.36). Solid, $[\alpha]_D = -13.3^\circ$ ($c = 0.06$, MeOH). **Source:** GAO GUI YOU MU YUN XIANG *Teclia nobilis* (aerial parts). **Ref:** 3503.

**11734 Isotenulin**

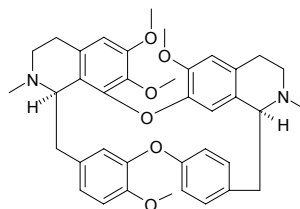
[10092-04-3] $C_{17}H_{22}O_5$ (306.36). **Pharm:** Analgesic (ip, weak). **Source:** YA LI SANG NA DUI XIN JU *Helenium arizonicum*, BI SHI DUI XIN JU *Helenium bigelovii*. **Ref:** 658.

**11735 Isoterchebin**

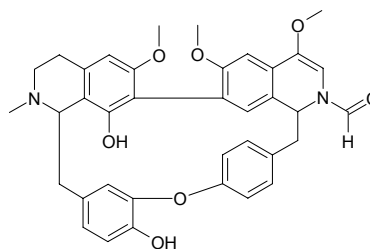
[58690-20-3] $C_{41}H_{30}O_{27}$ (954.68). **Pharm:** Antioxidant (rat cytoblast in liver cells, inhibits lipid peroxidation). **Source:** SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 658.

**11736 Isotetrandrine**

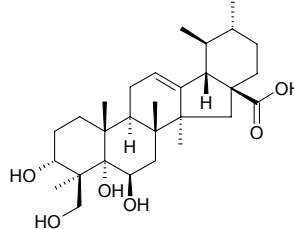
[477-57-6] $C_{38}H_{42}N_2O_6$ (622.77). mp $182^\circ C$. **Pharm:** Antibacterial (*Staphylococcus aureus* and *Bacillus pyocyaneus*, MIC = $100\mu g/mL$); anti-inflammatory; tuberculostatic (*Mycobacterium tuberculosis*, animal model); cytotoxic (KB); LD₅₀ (mus, ip) = $160mg/kg$, (rat, ip) = $2700mg/kg$, (rat, orl) = $6400mg/kg$. **Source:** BAI YAO ZI *Stephania cepharantha*, BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], HUA NAN GONG LAO MU *Mahonia japonica*, HUA NAN GONG LAO YE *Mahonia japonica*, HUA NAN GONG LAO ZI *Mahonia japonica*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.001%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], RI BEN XIAO BO *Berberis thunbergii*, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YIN BU HUAN *Cyclea barbata*, YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content = 0.35%)^[5508]. **Ref:** 6, 658, 5508.

**11737 Isothalamidine**

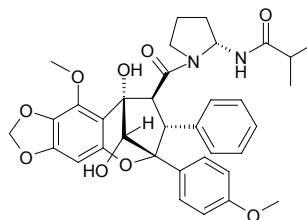
$C_{37}H_{36}N_2O_7$ (620.71). Pale yellow solid, $[\alpha]_D = 14^\circ$ ($c = 0.46$, $CHCl_3$). **Source:** TANG SONG CAO ZHUANG BIAN GUO CAO *Isopyrum thalictroides* (root and rhizome). **Ref:** 5078.

**11738 Isothankunic acid**

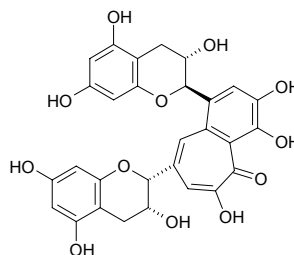
$C_{29}H_{46}O_6$ (490.69). **Source:** JI XUE CAO *Centella asiatica*. **Ref:** 660.

**11739 Isothapsakin B**

(-)-(2*R*,3*R*,4*S*,5*R*,10*R*,2*S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine $C_{35}H_{38}N_2O_9$ (630.70). $[\alpha]_D^{20} = -54^\circ$ ($c = 0.2$, $CHCl_3$). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

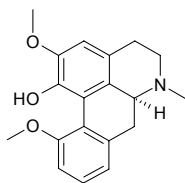
**11740 Isotheaflavin**

$C_{29}H_{24}O_{12}$ (564.51). **Source:** CHAYE *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 660.

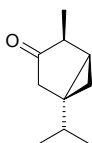


11741 Isothebaine

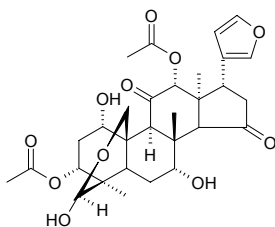
[568-21-8] $C_{19}H_{21}NO_3$ (311.38). **Pharm:** Analgesic; anti-inflammatory; respiratory depressant; sedative; inhibits autonomic movement. **Source:** JIN DONG YING SU *Papaver orientale*, JIA JIN DONG YING SU *Papaver pseudorientale*. **Ref:** 658.

**11742 Isothujone**

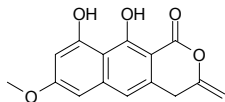
$C_{10}H_{16}O$ (152.24). **Source:** BEI AI *Artemisia vulgaris*. **Ref:** 660.

**11743 Isootoosendanin**

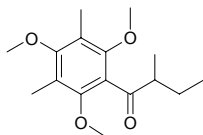
$C_{30}H_{38}O_{11}$ (574.63). **Source:** CHUAN LIAN PI *Melia toosendan*. **Ref:** 660.

**11744 Isotoralactone**

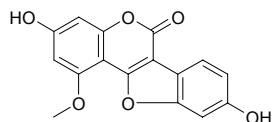
$C_{15}H_{12}O_5$ (272.26). **Source:** DUN YE JUE MING *Cassia obtusifolia*. **Ref:** 660.

**11745 Isotorquatone**

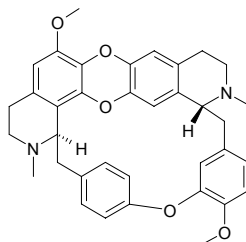
Torquatone in *Eucalyptus torquata* var. *grandiflora* $C_{16}H_{24}O_4$ (280.37). **Source:** WU BING YE AN *Eucalyptus apodophylla*. **Ref:** 2331.

**11746 Isotrifoliol**

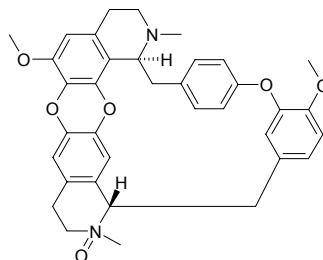
$C_{16}H_{10}O_6$ (298.25). Pale-yellow acicular crystals, mp > 300°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 748.

**11747 Isotrilobine**

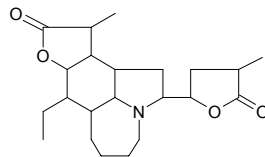
Homotrilobine [26195-62-0] $C_{36}H_{36}N_2O_5$ (576.70). mp 213–215°C. **Pharm:** Antibacterial (six *Bacillus* and *Coccus* spp., MIC = 7.8–500 µg/mL); antineoplastic (HeLa, mus EAC, S₁₈₀); anti-inflammatory (rat, tampon granuloma model and swollen foot model caused by carrageenan); platelet aggregation inhibitor. **Source:** MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], RU LAN *Stephania hernandifolia*. **Ref:** 6, 658.

**11748 Isotrilobine-2-N-oxide**

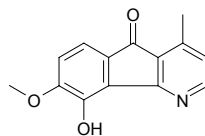
[139953-39-2] $C_{36}H_{36}N_2O_6$ (592.70). Yellowish crystalline powder, mp 178–179°C (methanol), $[\alpha]_D^{20.5} = +150.9^\circ$ ($c = 0.91$, chloroform). **Pharm:** Antineoplastic (P₃₈₈). **Source:** MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. **Ref:** 203, 658.

**11749 Isotuberostemonine**

$C_{22}H_{33}NO_4$ (375.51). mp 123–125°C. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 6.

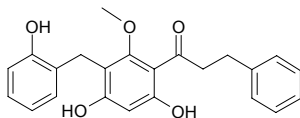
**11750 Isoursuline**

$C_{14}H_{11}NO_3$ (241.25). **Source:** BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*. **Ref:** 5386.

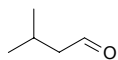


11751 Isoouvaretin

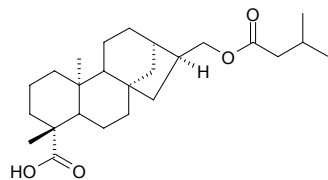
[61463-03-4] C₂₃H₂₂O₅ (378.43). Resin. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 3.1 μg/mL; *Bacillus subtilis*, MIC = 0.8 μg/mL; *Mycobacterium smegmatis*, MIC = 12.5 μg/mL); cytotoxic (hmn promyelocytic leukemia HL-60 cells, IC₅₀ = 24.7 μmol/L). **Source:** AN ZI YU PAN *Uvaria chamae*, GUAN ZI YU PAN *Uvaria angolensis*, JIAN ZI YU PAN *Uvaria acuminata* (root). **Ref:** 661, 4261.

**11752 Isovaleraldehyde**

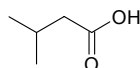
Isopentanal; Isovaleral [590-86-3] C₅H₁₀O (86.13). mp 92.5°C. **Source:** SHENG JIANG *Zingiber officinale*, XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*]. **Ref:** 2.

**11753 16αH,17-Isovalerate-ent-kauran-19-oic acid**

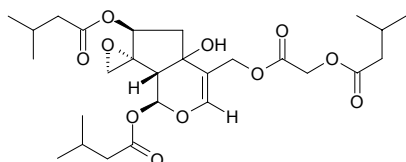
C₂₅H₄₀O₄ (404.60). White crystals, mp 168–171°C, [α]_D²⁰ = –32° (c = 0.50, CHCl₃). **Pharm:** COX-1 inhibitor (*in vitro*, IC₅₀ = 0.21 mmol/L). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (stem cortex). **Ref:** 4957.

**11754 Isovaleric acid**

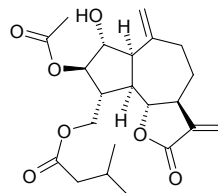
3-Methylbutanoic acid [503-74-2] C₅H₁₀O₂ (102.13). mp –37.6°C, bp 176.7°C. **Pharm:** Raw material for synthesis. **Source:** BAN BIAN SU *Elsholtzia ciliata*, FAN QIE *Lycopersicon esculentum*, HONG HUA *Carthamus tinctorius*, GAN SONG *Nardostachys chinensis*, HAI TUN YU *Delphinus delphis*, NIU BANG GEN *Arctium lappa*, PI JIU HUA *Humulus lupulus*, SANG YE *Morus alba*, TIAO JING CAO *Euonymus japonicus*, XIE CAO *Valeriana officinalis*, YAN CAO *Nicotiana tabacum*, YANG SHI CAO *Achillea millefolium*, *Valeriana* sp. **Ref:** 1460, 1461.

**11755 Isovaleroxo-hydroxy dihydrovaltrate**

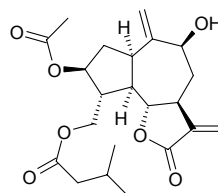
C₂₇H₄₀O₁₁ (540.61). **Source:** XIE CAO *Valeriana officinalis*, SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 6.

**11756 15-O-Isovaleroyl-3β-O-acetyl-2α-hydroxyamphoricarpolide**

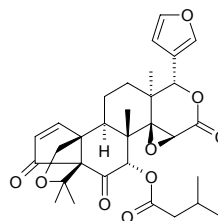
C₂₀H₃₀O₇ (406.48). Colorless gum, [α]_D²⁵ = +14° (c = 0.25, CHCl₃). **Source:** *Amphoricarpus neumayeri* ssp. *neumayeri* (aerial parts), *Amphoricarpus neumayeri* ssp. *murbeckii* (aerial parts). **Ref:** 3842.

**11757 15-O-Isovaleroyl-3β-O-acetyl-9β-hydroxyamphoricarpolide**

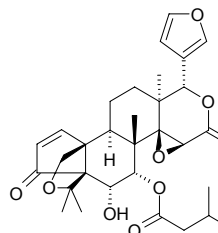
C₂₂H₃₀O₇ (406.48). Viscous oil, [α]_D²⁵ = +7.9° (c = 0.9, CHCl₃). **Source:** *Amphoricarpus neumayeri* ssp. *neumayeri* (aerial parts), *Amphoricarpus neumayeri* ssp. *murbeckii* (aerial parts). **Ref:** 3842.

**11758 7-Isovaleroylcyclopiatalantin**

C₃₁H₃₆O₉ (552.63). Colorless plates, mp 208–210°C, [α]_D = +22.3° (c = 0.85, CHCl₃). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

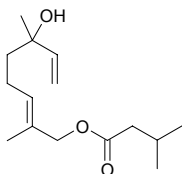
**11759 7-Isovaleroylcycloseverinolide**

C₃₁H₃₈O₉ (554.64). Colorless plates, mp 242–244°C, [α]_D = +73° (c = 0.63, CHCl₃). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

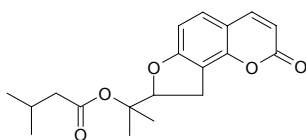


11760 Isovaleroyloxylinalool

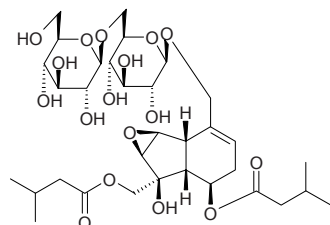
$C_{15}H_{26}O_3$ (254.37). Colorless oil, $[\alpha]_D = -1.4^\circ$ ($c = 0.3$, CH_2Cl_2). Source: FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). Ref: 3851.

**11761 O-Isovalerylcolum bianetin**

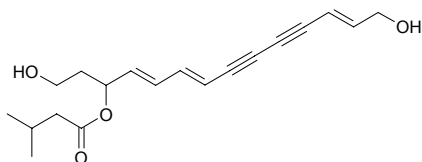
$C_{19}H_{22}O_5$ (330.38). Source: SHE CHUANG ZI *Cnidium monnieri*. Ref: 6.

**11762 10-Isovaleryl kanokoside C**

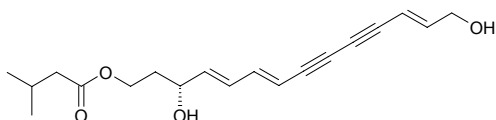
$C_{33}H_{52}O_{17}$ (720.77). Amorphous colorless solid. Source: XIE CAO *Valeriana officinalis* (rhizome and root: yield = 0.0002%). Ref: 915.

**11763 (4E,6E,12E)-3-Isovaleryloxy-tetradeca-4,6,12-triene-8,10-diyne-1,14-diol**

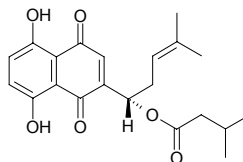
$C_{19}H_{24}O_4$ (316.40). Source: BEI CANG ZHU *Atractylodes chinensis* (rhizome). Ref: 4540.

**11764 (3S,4E,6E,12E)-1-Isovaleryloxy-tetradeca-4,6,12-triene-8,10-diyne-3,14-diol**

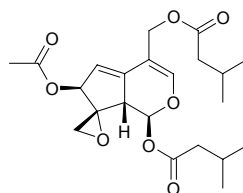
$C_{19}H_{24}O_4$ (316.40). Pale yellow oil, $[\alpha]_D^{22} = +45^\circ$ ($c = 0.139$, MeOH). Source: BEI CANG ZHU *Atractylodes chinensis* (rhizome). Ref: 4540.

**11765 Isovalerylshikonin**

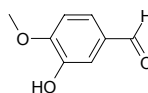
$C_{21}H_{24}O_6$ (372.42). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2.

**11766 Isovaltrate**

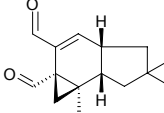
$C_{22}H_{30}O_8$ (422.48). Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000019%dw). Ref: 4672.

**11767 Isovanillin**

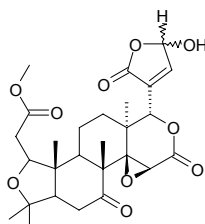
3-Hydroxy-*p*-anisaldehyde [621-59-0] $C_8H_8O_3$ (152.15). mp 116–117°C, bp 179°C/15mmHg. Source: KONG SHI CHUN *Ulva pertusa*. Ref: 6, 660.

**11768 Isovelleral**

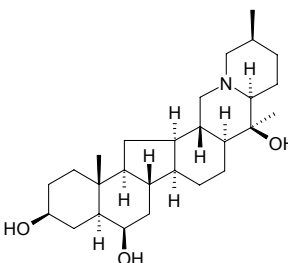
$C_{15}H_{20}O_2$ (232.33). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**11769 Isoveprisonic acid**

21-Oxo-23 ξ -hydroxy-21,23-dihydroveprisonic acid $C_{27}H_{34}O_{10}$ (518.57). White amorphous solid. Source: *Bouchardatia neurococca*. Ref: 3445.

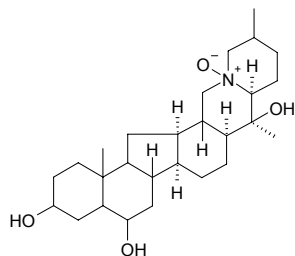
**11770 Isoverticine**

$C_{27}H_{45}NO_3$ (431.66). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

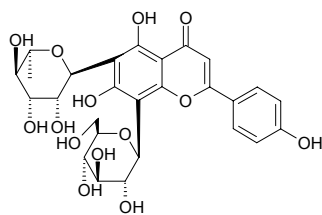


11771 Isoverticine- β -N-oxide

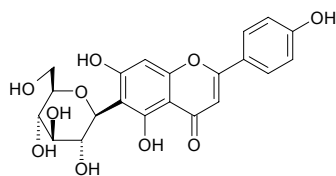
$C_{27}H_{45}NO_4$ (447.66). White crystals, mp 207~210°C. Source: WA BU BEI MU *Fritillaria wabuensis* (bulb). Ref: 4838.

**11772 Isoviolanthin**

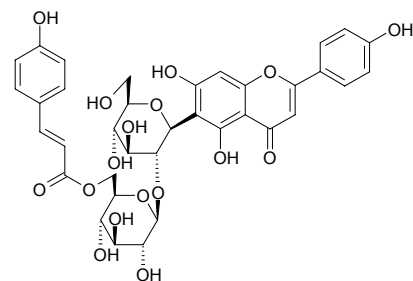
$C_{27}H_{30}O_{14}$ (578.53). Source: HUANG GAN CAO *Glycyrrhiza kansuensis*, *Glycyrrhiza* spp. Ref: 660, 2431.

**11773 Isovitexin**

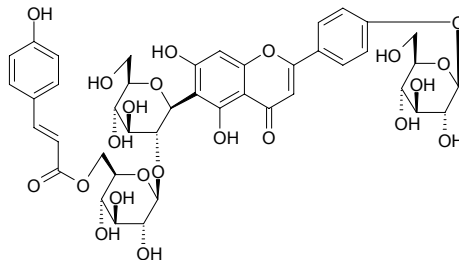
Homovitexin; Saponaretin; Apigenin-6-*C*- β -D-glucopyranoside [38953-85-4] $C_{21}H_{20}O_{10}$ (432.39). mp 265°C, mp 239°C, $[\alpha]_D^{22} = -9.2^\circ$ ($c = 0.72$, pyridine). Pharm: Antineoplastic (of 60 tested flavones, 10 showed antineoplastic activity, and isovitexin was one of the strongest three compounds); pytoalexin^[4727]. Source: BIN MU JING *Vitex littoralis*, HUANG GUA *Cucumis sativus* (leaf)^[4727], ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.00018%dw)^[4758], RI BEN SHUANG HU DIE *Tripterospermum japonicum*, SUAN JIAO *Tamarindus indica*, XIN XI LAN MU JING *Vitex lucens*, YA MA *Linum usitatissimum*, ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZHANG YA CAI *Swertia pseudochinensis*. Ref: 658, 3533, 4758.

**11774 Isovitexin 2''-O-(6'''-(E)-p-coumaroyl)glucoside**

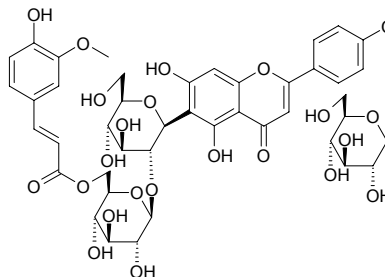
$C_{36}H_{36}O_{17}$ (740.68). Yellow solid. Source: HUANG GUA *Cucumis sativus* (leaf). Ref: 5181.

**11775 Isovitexin 2''-O-(6'''-(E)-p-coumaroyl)glucoside-4'-O-glucoside**

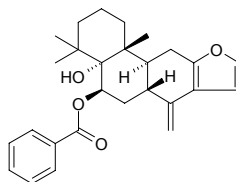
$C_{42}H_{46}O_{22}$ (902.82). Yellow solid. Source: HUANG GUA *Cucumis sativus* (leaf). Ref: 5181.

**11776 Isovitexin 2''-O-(6'''-(E)-feruloyl)glucoside-4'-O-glucoside**

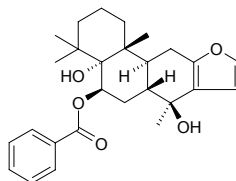
Isovitexin 2''-O-(6'''-(E)-feruloyl)- β -glucopyranoside-4'-O- β -glucopyranoside $C_{43}H_{48}O_{23}$ (932.85). Source: HUANG GUA *Cucumis sativus* (leaf). Ref: 5181.

**11777 Isovouacapenol A**

(4 α ,5 β ,6 $\alpha\beta$,11 α ,11 β)-1,2,3,4,4a,5,6,6a,7,11,11a,11b-Dodecahydro-4,4,11b-trimethyl-7-methylenephenanthro[3,2-*b*]furan-4a,5-diol-5-benzoate $C_{27}H_{32}O_4$ (420.55). Colorless crystals, mp 163~165°C (petroleum ether), $[\alpha]_D^{20} = -25.5^\circ$ ($c = 0.0092$, $CDCl_3$). Pharm: Antibacterial (*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Bacillus subtilis*); antifungal (*Candida albicans* and *Trichophyton mentagrophytes*). Source: JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf: yield = 0.00087%dw). Ref: 4639.

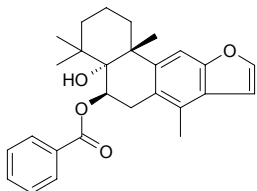
**11778 Isovouacapenol B**

(4 α ,5 β ,6 $\alpha\beta$,7 β ,11 α ,11 β)-1,2,3,4,4a,5,6,6a,7,11,11a,11b-Dodecahydro-4,4,7,11b-tetramethylphenanthro[3,2-*b*]furan-4a,5,7-triol-5-benzoate $C_{27}H_{34}O_5$ (438.57). Colorless crystals, mp 108~110°C (petroleum ether), $[\alpha]_D^{20} = +12.6^\circ$ ($c = 0.0082$, $CDCl_3$). Pharm: Antibacterial (*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Bacillus subtilis*); antifungal (*Candida albicans*, *Aspergillus niger* and *Trichophyton mentagrophytes*). Source: JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf: yield = 0.00044%dw). Ref: 4639.

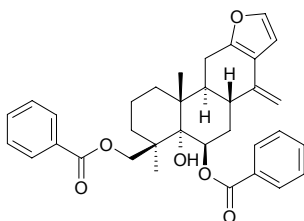


11779 Isovouacapenol D

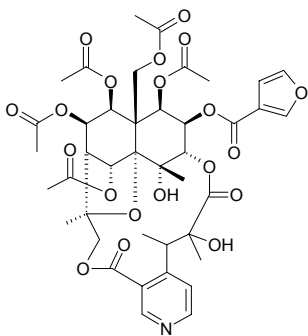
(4 α ,5 β ,11 β)-1,2,3,4,4a,5,6,11b-Octahydro-4,4,7,11b-tetramethyl-phenanthro [3,2-*b*]furan-4a,5-diol-5-benzoate C₂₇H₃₀O₄ (418.54). Colorless crystals, mp 211~213°C (petroleum ether), [α]_D²⁰ = -71.6° (*c* = 0.0031, CDCl₃). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Bacillus subtilis*); antifungal (*Candida albicans* and *Trichophyton mentagrophytes*). **Source:** JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf: yield = 0.00009%dw). **Ref:** 4639.

**11780 Isovouacapenol E**

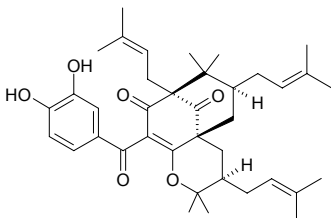
C₃₄H₃₆O₆ (540.66). Colorless gum, [α]_D²⁰ = -7° (*c* = 0.001, CHCl₃). **Source:** JI MEI YUN SHI *Caesalpinia pulcherrima* (leaf). **Ref:** 4394.

**11781 Isowilfortrine**

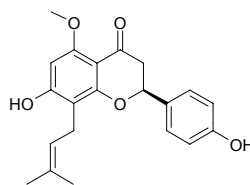
C₄₁H₄₇NO₂₀ (873.83). Colorless lamellar crystals, mp 329~331°C. **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 310.

**11782 Isoxanthochymol**

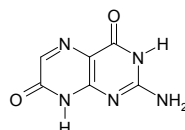
C₃₈H₅₀O₆ (602.82). **Source:** DA YE TENG HUANG *Garcinia xanthochymus*. **Ref:** 660.

**11783 Isoxanthohumol**

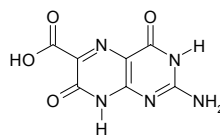
[70872-29-6] C₂₁H₂₂O₅ (354.41). mp 198°C. **Pharm:** Cytotoxic (inhibits cellular hyperplasia of mammary cancer, colon cancer and ovary cancer A2780). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], PI JIU HUA *Humulus lupulus* (strobile)^[4789]. **Ref:** 6, 1582, 4789.

**11784 Isoxanthopterin**

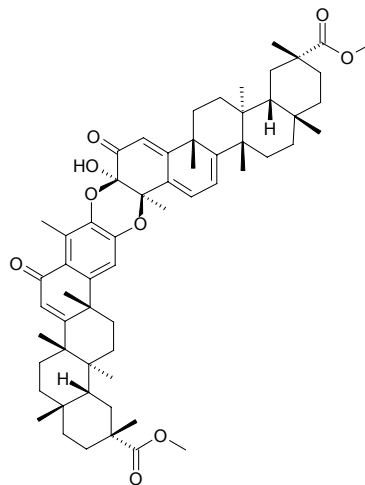
2-Amino-4,7-pteridinediol; Ranachrome 4 [529-69-1] C₆H₅N₅O₂ (179.14). mp > 300°C (dec). **Source:** DIE DA LAO *Litsea verticillata*, JIN YU *Carassius auratus*, QING WA *Rana nigromaculata*; *Rana plancyi*. **Ref:** 6.

**11785 Isoxanthopterin-6-carboxylic acid**

C₇H₅N₅O₄ (223.15). **Source:** JIN YU *Carassius auratus*. **Ref:** 6.

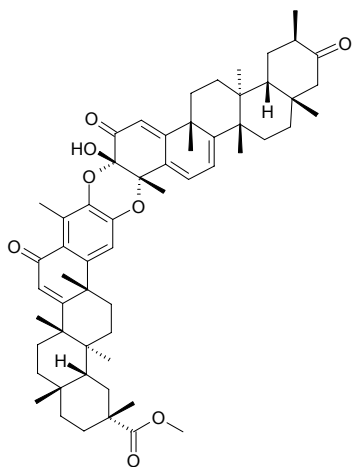
**11786 Isoxuxuarine E β**

C₆₀H₇₈O₉ (943.29). Yellow amorphous solid. **Source:** QIU SHI MEI DENG MU *Maytenus chuchuhuasca*(bark). **Ref:** 4295.

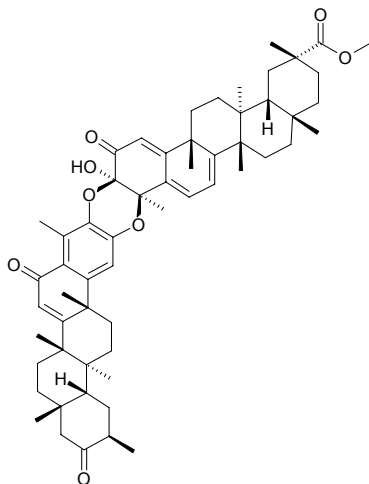


11787 Isoxuxuarine Fa

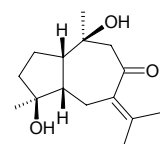
$C_{58}H_{74}O_8$ (899.23). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

**11788 Isoxuxuarine Gβ**

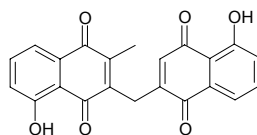
$C_{58}H_{74}O_8$ (899.23). Yellow amorphous solid. Source: QIU SHI MEI DENG MU *Maytenus chuchuhuasca* (bark). Ref: 4295.

**11789 Isozedoarondiol**

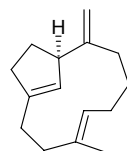
$C_{15}H_{24}O_3$ (252.36). Pharm: NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (11.4±2.5)%, control L-NMMA, 100 μmol/L, InRt = (79.2±0.9)%, $p < 0.05$). Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. Ref: 4150.

**11790 Isozeylanone**

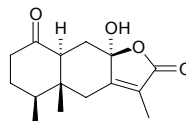
$C_{22}H_{14}O_6$ (374.35). Red powder. Source: BAI HUA DAN *Plumbago zeylanica*, HAI SHI *Diospyros maritima* (fruit). Ref: 1521, 4185.

**11791 (+)-Isozierene**

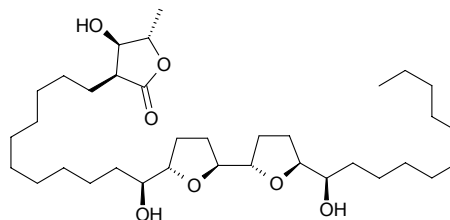
(+)-4-Methyl-9-methylene-bicyclo[8.2.1]trideca-1(13),4-diene $C_{15}H_{22}$ (202.34). Colorless oil. Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**11792 (-)-Istanbulin A**

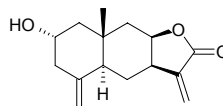
$C_{15}H_{20}O_4$ (264.32). Colorless granular crystals, mp 245°C, $[\alpha]_D^{17.5} = -110^\circ$ ($c = 0.6035$, methanol). Source: JIU JIE CHA *Sarcandra glabra* [Syn. *Chloranthus glaber*]. Ref: 94.

**11793 Itrabin**

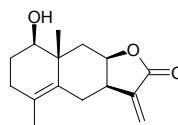
$C_{35}H_{64}O_7$ (596.90). Pharm: Mitochondrial complex I selective inhibitor (NADH oxidase $IC_{50} = (0.21 \pm 0.03)$ nmol/L, $p < 0.001$, control Rotenone, $IC_{50} = (5.10 \pm 0.09)$ nmol/L). Source: MAO YE FAN LI ZHI *Annona cherimolia* (seed). Ref: 5024.

**11794 Ivalin**

$C_{15}H_{20}O_3$ (248.32). Pharm: Toxin (mammal). Source: *Inula* sp., *Wedelia* sp. Ref: 658.

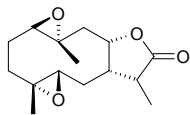
**11795 Ivangustin**

$C_{15}H_{20}O_3$ (248.32). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

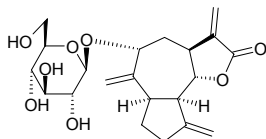


11796 Ivaxillin

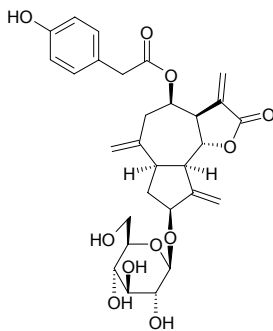
$C_{15}H_{22}O_4$ (266.34). Source: TIAN MING JING *Carpesium abrotanoides*. Ref: 660.

**11797 Ixeriside**

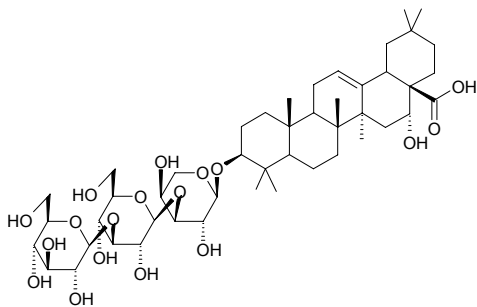
$C_{21}H_{28}O_8$ (408.45). Source: JU QU *Cichorium intybus*. Ref: 736.

**11798 Ixeriside A**

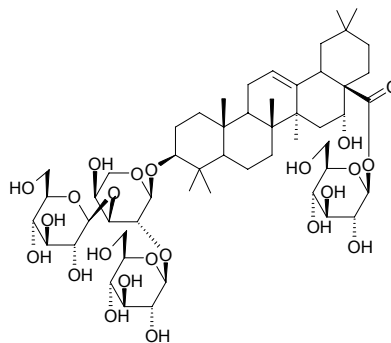
$C_{29}H_{34}O_{11}$ (558.59). Source: SHAN KU MAI *Ixeris chinensis*. Ref: 1521.

**11799 Ixerissaponin A**

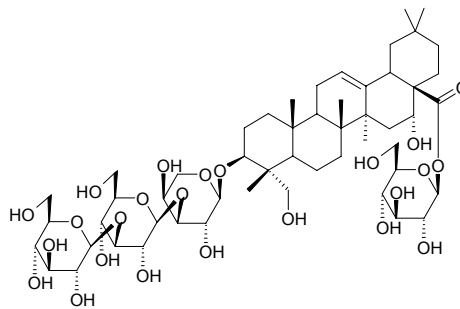
Echinocystic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranoside $C_{47}H_{76}O_{18}$ (929.12). White amorphous powder, $[\alpha]_D^{25} = +16.0^\circ$ ($c = 0.23$, pyridine). Pharm: Cytotoxic inactive (*in vitro*, cultured A375, $IC_{50} > 50\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.35\pm 0.03)\mu\text{mol/L}$; L-929, $IC_{50} > 50\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.32\pm 0.02)\mu\text{mol/L}$; HeLa, $IC_{50} > 50\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.23\pm 0.02)\mu\text{mol/L}$). Source: BAO JING KU MAI CAI *Ixeris sonchifolia* (whole herb). Ref: 5476.

**11800 Ixerissaponin B**

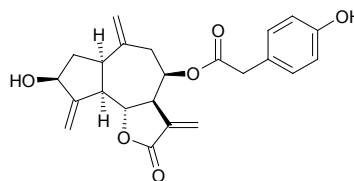
3-*O*-{Bis[β -*D*-glucopyranosyl(1 \rightarrow 2 and 1 \rightarrow 3)- α -*L*-arabinopyranosyl]} echinocystic acid 28-*O*- β -*D*-glucopyranosyl ester $C_{53}H_{86}O_{23}$ (1093.26). White amorphous powder, $[\alpha]_D^{25} = +22.4^\circ$ ($c = 0.21$, pyridine). Pharm: Cytotoxic (*in vitro*, cultured A375, $IC_{50} = (8.83\pm 2.78)\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.35\pm 0.03)\mu\text{mol/L}$; L-929, $IC_{50} = (12.10\pm 4.69)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.32\pm 0.02)\mu\text{mol/L}$; HeLa, $IC_{50} = (15.83\pm 3.65)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.23\pm 0.02)\mu\text{mol/L}$). Source: BAO JING KU MAI CAI *Ixeris sonchifolia* (whole herb). Ref: 5476.

**11801 Ixerissaponin C**

3-*O*-[β -*D*-Glucopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranosyl]-16 α ,23-dihydroxyolean-12-ene 28-*O*- β -*D*-glucopyranosyl ester $C_{53}H_{86}O_{24}$ (1107.26). White amorphous powder, $[\alpha]_D^{25} = +28.6^\circ$ ($c = 0.25$, pyridine). Pharm: Cytotoxic (*in vitro*, cultured A375, $IC_{50} = (10.32\pm 3.12)\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.35\pm 0.03)\mu\text{mol/L}$; L-929, $IC_{50} = (13.2\pm 5.02)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.32\pm 0.02)\mu\text{mol/L}$; HeLa, $IC_{50} = (9.49\pm 2.36)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.23\pm 0.02)\mu\text{mol/L}$). Source: BAO JING KU MAI CAI *Ixeris sonchifolia* (whole herb). Ref: 5476.

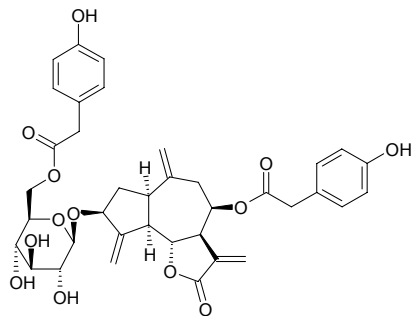
**11802 Ixerochinolide**

$C_{23}H_{24}O_6$ (396.44). Pharm: Cytotoxic (hmn, *in vitro*, PC3 prostate cancer cells, $IC_{50} = 1.6\mu\text{g/mL}$). Source: SHAN KU MAI CAI *Ixeris chinensis*. Ref: 2527.

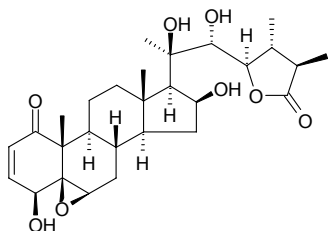


11803 Ixerochinoside

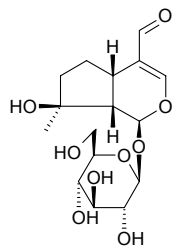
3 β -(6"-Phenylacetyloxyb-D-glucopyranosyloxy)-8 β -(p-hydroxyphenylacetyloxy)-guaia-4(15),10(14),11(13)-trien-1 α ,5 α ,6 β ,7 α H-12,6-olide C₃₇H₄₀O₁₃ (692.72). Source: SHAN KU MAI *Ixeris chinensis*. Ref: 2527.

**11804 Ixocarpalactone A**

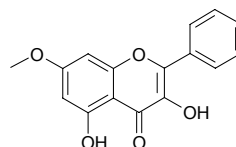
5,6-Epoxy-4,16,20,22-tetrahydroxy-1-oxoergost-2-eno-26,23-lactone [71801-45-1] C₂₈H₄₀O₈ (504.63). Crystals, mp 294~295°C, [α]_D = +84°. Pharm: Quinone reductase inducer (mus Hepa1c1c7 cells, CD = (0.22±0.08) μ mol/L, IC₅₀ = (4.1±2.9) μ mol/L, CI = 19, positive control Sulforaphane, CD = (0.36±0.17) μ mol/L, IC₅₀ = (9.9±2.1) μ mol/L, CI = 28)^[4337]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 0.16 μ g/mL)^[5038]; cytotoxic (soft agar transformation assay with JB6 cells, IC₅₀ = 0.13 μ g/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, ca. 60% at 10 μ g/mL, a promising lead as potential cancer chemopreventive agents)^[5038]. Source: FEI CHENG SUAN JIANG *Physalis philadelphica* (stem and leaf), NIAN XING GUO SHI SUAN JIANG *Physalis ixocarpa*. Ref: 1521, 4337, 5038.

**11805 Ixoroside**

C₁₆H₂₄O₉ (360.36). Source: DA CHE QIAN *Plantago major*. Ref: 660.

**11806 Izalpinin**

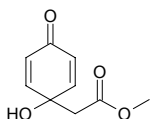
3,5-Dihydroxy-7-methoxy-2-phenyl-4H-1-benzopyran-4-one [480-14-8] C₁₆H₁₂O₅ (284.27). Yellow acicular crystals (CH₂Cl₂), mp 192~195°C. Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC₅₀ > 30 μ mol/L; control L-NMMA, IC₅₀ = 28 μ mol/L)^[4655]; β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = 27.5%; control Curcumin, InRt = 62.6%)^[4655]. Source: FENG JIAO *Apis mellifera ligustica*, JIN YU *Carassius auratus*, LIAN JIANG *Alpinia chinensis*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0006%dw)^[4655]. Ref: 6, 463, 4655.



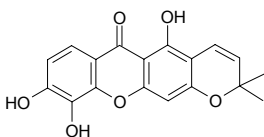
J

11807 Jacaranone

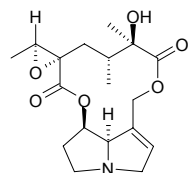
[60263-07-2] C₉H₁₀O₄ (182.18). mp 76~77°C, 80~81°C. **Pharm:** Antineoplastic (mus P₃₈₈ *in vivo*, 2mg/kg, biotic prolonged rate = 65%); cytotoxic (KB *in vitro*, ED₅₀ = 2.1µg/mL). **Source:** SONG YE QIAN LI GUANG *Senecio abrotanifolius*, FEI YI DIAN HONG *Emilia coccinea*, YI DIAN HONG *Emilia sonchifolia*. **Ref:** 5, 658, 1521.

**11808 Jacareubin**

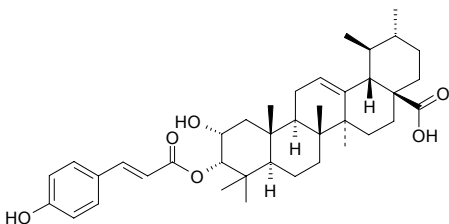
[3811-29-8] C₁₈H₁₄O₆ (326.31). **Pharm:** Anti-inflammatory; antimicrobial; antiulcerative. **Source:** BA XI HU TONG *Calophyllum brasiliense*, HAI TANG GUO *Calophyllum inophyllum* (in 1971, the compound was isolated from the plant by F.S.AL-Jeboury, et al.)^[5505], *Calophyllum* sp. **Ref:** 658, 5505.

**11809 Jacobine**

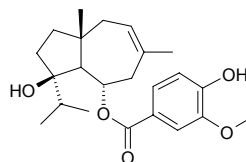
[6870-67-3] C₁₈H₂₅NO₆ (351.40). **Pharm:** Anticholinergic; mutagen (chromosome in plant cells). **Source:** CAO DIAN QIAN LI GUANG *Senecio jacobaea*, YA KE BEI QIAN LI GUANG *Senecio alpinus*, YIN BAI QIAN LI GUANG *Senecio cineraria*. **Ref:** 658.

**11810 Jacoumaric acid**

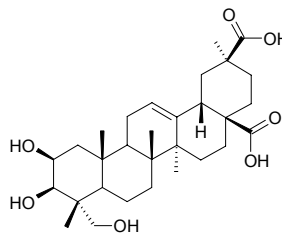
[63303-42-4] C₃₉H₅₄O₆ (618.86). **Source:** WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. **Ref:** 637.

**11811 Jaeschkeanadiol vanillate**

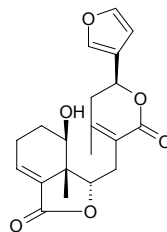
C₂₃H₃₂O₅ (388.51). **Pharm:** Antibacterial (MSSA, MIC = 16µg/mL, control Ampicillin, MIC = 1µg/mL; MRSA, MIC = 16µg/mL, Ampicillin, MIC = 2µg/mL; *Staphylococcus epidermidis* IFO 3762, MIC = 31µg/mL, Ampicillin, MIC < 0.125µg/mL; *Enterococcus faecalis* ATCC 21212, MIC = 31µg/mL, Ampicillin, MIC = 1µg/mL; *Bacillus subtilis* IFO 3134, MIC = 31µg/mL, Ampicillin, MIC < 0.125µg/mL; *Salmonella typhimurium* IFO 13245, MIC > 250µg/mL, Ampicillin, MIC = 1µg/mL; *Proteus mirabilis* IFO 3849, MIC > 250µg/mL, Ampicillin, MIC = 2µg/mL; *Escherichia coli* NIHJ JC-2, MIC > 250µg/mL, Ampicillin, MIC = 4µg/mL)^[5207]. **Source:** YI LANG A WEI *Ferula kuhistanica* (root), YI LANG A WEI *Ferula kuhistanica* (fruit). **Ref:** 3977, 5207.

**11812 Jaligonic acid**

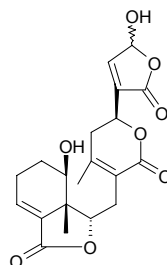
2-Hydroxyesculentic acid C₃₀H₄₆O₇ (518.70). **Source:** BA XIAN CAO *Galium aparine*, SHANG LU *Phytolacca esculenta* [Syn. *Phytolacca acinosa*]. **Ref:** 660.

**11813 Jamesoniellide I**

C₂₀H₂₂O₆ (358.39). **Source:** YUAN YE TAI *Jamesoniella colorata*. **Ref:** 3375.

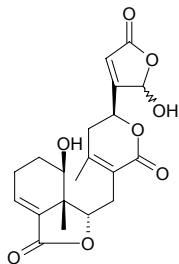
**11814 Jamesoniellide K**

C₂₀H₂₂O₈ (390.39). [α]_D²⁰ = -15.4° (c = 0.9, CHCl₃). **Source:** YUAN YE TAI *Jamesoniella colorata*. **Ref:** 3375.

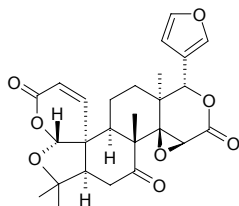


11815 Jamesoniellide L

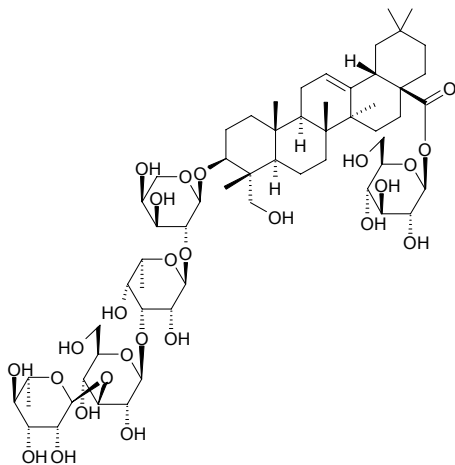
$C_{20}H_{22}O_8$ (390.39). $[\alpha]_D^{20} = -11.8^\circ$ ($c = 0.25$, $CHCl_3$). Source: YUAN YE TAI *Jamesoniella colorata*. Ref: 3375.

**11816 Jangomolide**

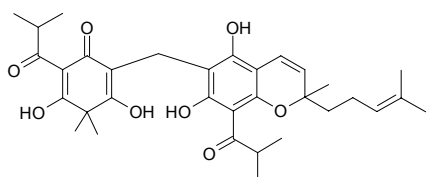
$C_{26}H_{28}O_8$ (468.51). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 660.

**11817 Japondipsaponin E₁**

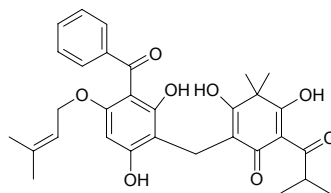
3-*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-hederagenin 28-*O*- β -D-glucopyranoside $C_{59}H_{96}O_{26}$ (1221.41). White powder, mp 223–226°C, soluble in methanol, pyridine and water. Source: XU DUAN *Dipsacus japonicus*. Ref: 339.

**11818 Japonicin B**

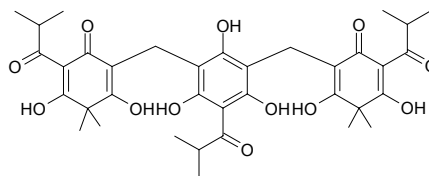
Sarothralen B $C_{33}H_{42}O_8$ (566.70). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**11819 Japonicin C**

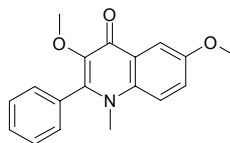
Sarothralin [96624-40-7] $C_{31}H_{34}O_8$ (534.61). Pharm: Antimicrobial. Source: DI ER CAO *Hypericum japonicum*. Ref: 658, 660.

**11820 Japonicin D**

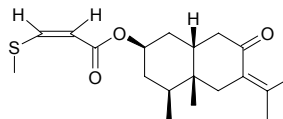
$C_{36}H_{44}O_{12}$ (668.74). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**11821 Japonine**

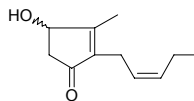
[30426-61-0] $C_{18}H_{17}NO_3$ (295.34). mp 143°C. Source: CHOU SHAN YANG *Orixa japonica*. Ref: 6.

**11822 S-Japonine**

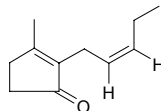
[36031-35-3] $C_{19}H_{28}O_3S$ (336.50). mp 116.5–117.0°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**11823 Jasmololone**

$C_{11}H_{16}O_2$ (180.25). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

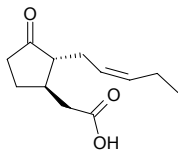
**11824 Jasmone**

[488-10-8] $C_{11}H_{16}O$ (164.25). bp 134–135°C/12mmHg. Source: SU FANG HUA *Jasminum officinale*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], DAI DAI HUA *Citrus aurantium* var. *amara*, MO LI HUA *Jasminum sambac*, SU XIN HUA *Jasminum grandiflorum*. Ref: 6, 658, 1521.

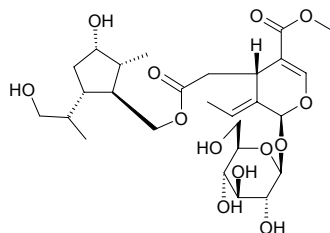


11825 (-)-Jasmonic acid

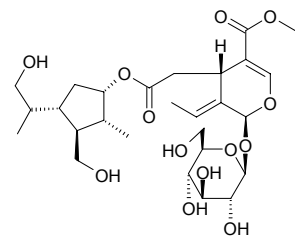
[6894-38-8] C₁₂H₁₈O₃ (210.28). Viscous oil, bp 125°C/0.001mmHg, [α]_D = -83.5° (*c* = 0.97, CHCl₃). **Pharm:** Inhibits biosynthesis of chlorophyll; promotes aging of leaves; potato micro-tuber inducer (1 μmol/L)^[3966]. **Source:** CAN DOU *Vicia faba*, SU XIN HUA *Jasminum grandiflorum*, *Lasiodiplodia theobromae*. **Ref:** 658, 1521, 3966.

**11826 Jasnudifloside F**

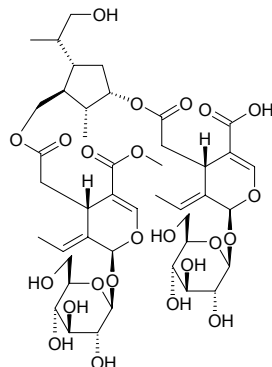
C₂₇H₄₂O₁₃ (574.63). Colorless amorphous powder, [α]_D²⁸ = -145° (*c* = 0.52, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

**11827 Jasnudifloside G**

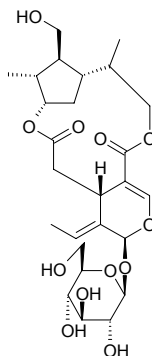
C₂₇H₄₂O₁₃ (574.63). Colorless amorphous powder, [α]_D²³ = -161° (*c* = 0.89, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

**11828 Jasnudifloside H**

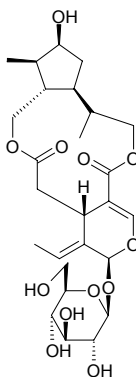
C₄₃H₆₂O₂₃ (946.96). Colorless amorphous powder, [α]_D²⁴ = -183° (*c* = 1.02, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

**11829 Jasnudifloside I**

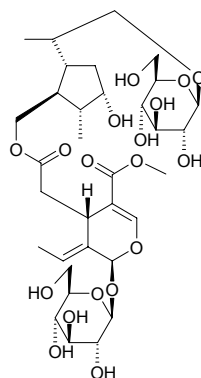
C₂₆H₃₈O₁₂ (542.59). Colorless amorphous powder, [α]_D²⁶ = -186° (*c* = 0.39, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

**11830 Jasnudifloside J**

C₂₆H₃₈O₁₂ (542.59). Colorless amorphous powder, [α]_D²³ = -189° (*c* = 0.17, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

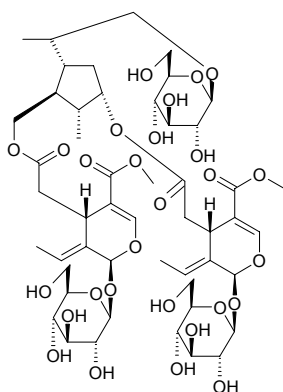
**11831 Jasnudifloside K**

C₃₃H₅₂O₁₈ (736.77). Colorless amorphous powder, [α]_D²⁴ = -135° (*c* = 0.55, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

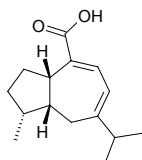


11832 Jasnudifloside L

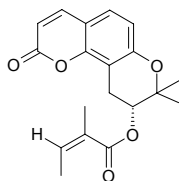
$C_{50}H_{74}O_{28}$ (1123.13). Colorless amorphous powder, $[\alpha]_D^{24} = -173^\circ$ ($c = 0.73$, MeOH). Source: YING CHUN HUA *Jasminum nudiflorum* (leaf). Ref: 4169.

**11833 Jatamansic acid**

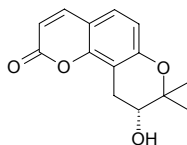
$C_{15}H_{22}O_2$ (234.34). Source: SHI YE GAN SONG *Nardostachys jatamansi*. Ref: 660.

**11834 Jatamansin**

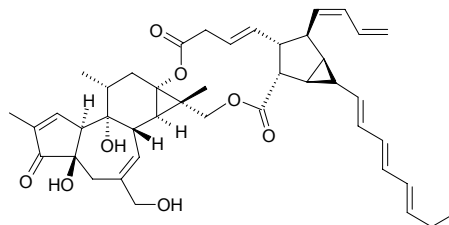
Selinidin [19427-82-8] $C_{19}H_{20}O_5$ (328.37). Crystals (Et₂O–petroleum ether), mp 100–102.5°C, mp 97–98°C, $[\alpha]_D^{29} = +20.3^\circ$ ($c = 1.474$, dioxin), $[\alpha]_D = -24^\circ$ (CHCl₃), $[\alpha]_D^{16} = -41.4^\circ$ ($c = 1.6$, CHCl₃). Pharm: Anti-atherosclerotic; antispasmodic (peripheral blood vessel and small intestine); vasodilator. Source: GAN SONG *Nardostachys chinensis*, SHI YE GAN SONG *Nardostachys jatamansi*, GAO DANG GUI *Ligusticum elatum*, YAN FENG *Libanotis buchtormensis*, *Niphogeton ternata*. Ref: 6, 661, 1521, 4156.

**11835 Jatamansinol**

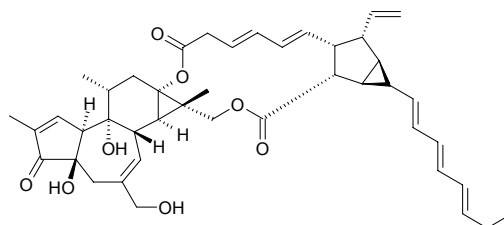
Lomatin [19380-05-3] $C_{14}H_{14}O_4$ (246.27). mp 182–183°C, $[\alpha]_D^{23} = +74.8^\circ$ (EtOH). Source: GAN SONG *Nardostachys chinensis*, SHI YE GAN SONG *Nardostachys jatamansi*, YAN FENG *Libanotis buchtormensis*. Ref: 6, 1521.

**11836 Jatropa factor C₁**

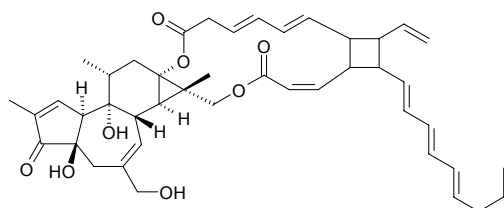
$C_{44}H_{54}O_8$ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +20.9^\circ$ ($c = 0.35$, MeOH). Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

**11837 Jatropa factor C₂**

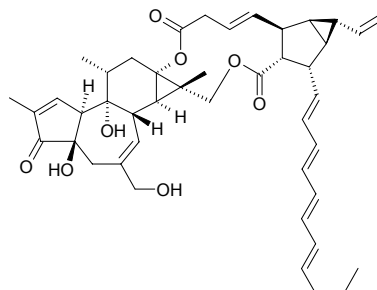
$C_{44}H_{54}O_8$ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +0.6^\circ$ ($c = 0.17$, MeOH), unstable. Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

**11838 Jatropa factor C₃**

$C_{44}H_{54}O_8$ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +130.0^\circ$ ($c = 0.07$, MeOH), unstable. Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

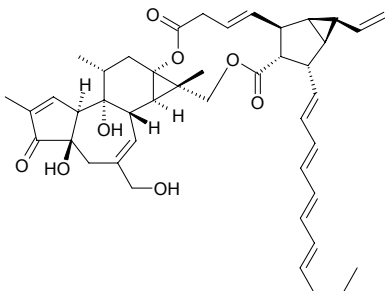
**11839 Jatropa factor C₄**

$C_{44}H_{54}O_8$ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +113.0^\circ$ ($c = 0.23$, MeOH). Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

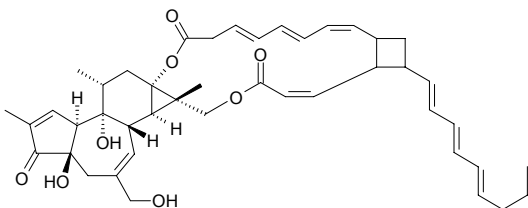


11840 Jatropa factor C₅

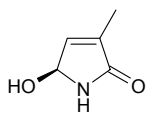
C₄₄H₅₄O₈ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +113.0^\circ$ ($c = 0.23$, MeOH). Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

**11841 Jatropa factor C₆**

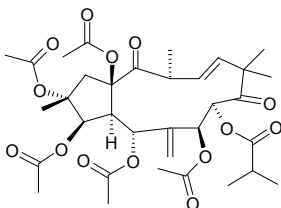
C₄₄H₅₄O₈ (710.92). Amorphous white powder, $[\alpha]_D^{20} = +69.3^\circ$ ($c = 0.14$, MeOH), unstable. Source: MA FENG SHU *Jatropha curcas* (seed). Ref: 4652.

**11842 Jatropham**

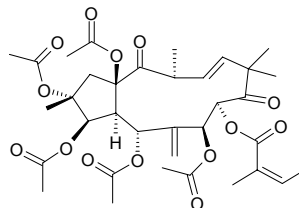
Jatrophalactam [50656-76-3] C₅H₇NO₂ (113.12). mp 131~132°C, mp 119~123°C. Pharm: Cytotoxic (P₃₃₈, marginally active). Source: MA FENG SHU *Jatropha curcas*, HUANG BAI HE *Lilium hansonii*. Ref: 5, 1521.

**11843 Jatrophane 7**

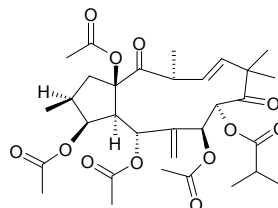
C₃₄H₄₆O₁₄ (678.74). Pharm: Antifeedant (*Spodopetra littoralis*, 500~1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ = 69µg/mL); cytotoxic (MT-4, CC₅₀ = 69µg/mL). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

**11844 Jatrophane 8**

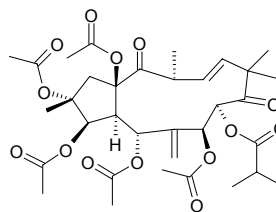
C₃₅H₄₆O₁₄ (690.75). Pharm: Antifeedant (*Spodopetra littoralis*, 500mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ > 100µg/mL); cytotoxic (MT-4, CC₅₀ > 100µg/mL). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

**11845 Jatrophane 9**

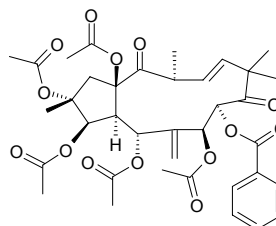
C₃₂H₄₄O₁₂ (620.70). Pharm: Antifeedant (*Spodopetra littoralis*, 500~1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ = 45µg/mL); cytotoxic (MT-4, CC₅₀ = 45µg/mL). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

**11846 Jatrophane 10**

C₃₅H₄₈O₁₄ (692.76). Pharm: Anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ = 40µg/mL); cytotoxic (MT-4, CC₅₀ = 40µg/mL). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

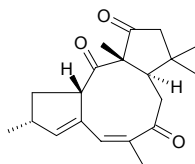
**11847 Jatrophane 11**

C₃₇H₄₄O₁₄ (712.75). Pharm: Anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ = 79µg/mL); cytotoxic (MT-4, CC₅₀ = 79µg/mL). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

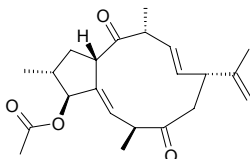


11848 Jatrophatrione

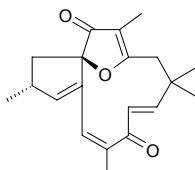
[58298-76-3] C₂₀H₂₆O₃ (314.43). mp 148–150°C. **Pharm:** Antineoplastic (mus, P₃₈₈, 3PS, 1.0–0.5mg/kg, biotic prolonged rate = 41%). **Source:** MA FENG SHU *Jatropha curcas*. **Ref:** 5, 658, 1521.

**11849 Jatrophene**

C₂₂H₃₀O₄ (358.48). mp, 204–205°C, [α]_D²⁵ = –4.5° (c = 0.5, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, comparable activity with Penicillin G). **Source:** MIAN YE MA FENG SHU *Jatropha gossypifolia* (whole herb). **Ref:** 4360.

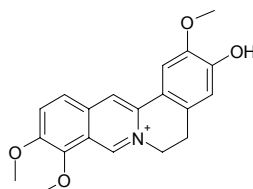
**11850 Jatrophone**

[29444-03-9] C₂₀H₂₄O₃ (312.41). mp 152–153°C. **Pharm:** Antineoplastic (mus, P₃₈₈, ED = 27mg/kg and 12mg/kg); cytotoxic (KB, *in vitro*, ED₅₀ = 0.17μg/mL). **Source:** MA FENG SHU *Jatropha curcas*. **Ref:** 5, 658.

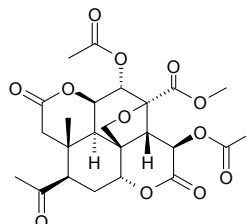
**11851 Jatrorrhizine**

Yatrorrhizine [3621-38-3] C₂₀H₂₀NO₄⁺ (338.39). Iodine: yellow lamellar crystals, mp 208–210°C. **Pharm:** Antiarrhythmic (caused by myocardial ischemia and reperfusion); antibacterial (broad spectrum); antifungal (broad spectrum); antiprotozoal; bidirectional action to heart (frog heart *in vitro*, inhibits first and then stimulates); antihypertensive (anesthetic rbt, iv); inhibits adrenaline (anesthetic rbt, iv); sedative (animal model); treatment of myocardial infarction (in coronary artery-ligated rbt). **Source:** BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content = 0.33%)^[5508], CHENG KOU SHI DA GONG LAO *Mahonia shenii* (stem: content = 0.09%)^[5510], CHUAN DIAN SHI DA GONG LAO *Mahonia veitchiorum* (stem: content = 0.45%)^[5510], DA YE TANG SONG CAO *Thalictrum faberi* (root: content = 0.23%)^[5508], DUAN E HUANG LIAN *Coptis chinensis* var. *brevisepala* (rhizome: content = %) ^[5508], E MEI YE HUANG LIAN *Coptis*

omeiensis (rhizome: content = 1.09%)^[5508], FANG JI *Stephania tetrandra*, GU LIN YE LIAN *Coptis gulinensis* (rhizome: content = 0.92%)^[5508], HAI NAN QING NIU DAN *Tinospora hainanensis*, HE NAN TANG SONG CAO *Thalictrum honanense*, HU BEI SHI DA GONG LAO *Mahonia confusa* (stem: content = 0.17%)^[5510], HUA NAN GONG LAO MU *Mahonia japonica* (stem: content = 0.10%)^[5510], HUANG BAI *Phellodendron amurense*, HUANG LIAN *Coptis chinensis* (rhizome: mean content = 0.94%)^[5508], HUANG YE DI BU RONG *Stephania viridiflavens*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.001%)^[5508], KUAN BAO SHI DA GONG LAO *Mahonia eurybracteata* (stem: mean content of 3 origins = 0.29%)^[5510], MA WEI LIAN *Thalictrum foliolosum* (root: content = 0.09%)^[5508], RI BEN XIAO BO *Berberis thunbergii*, SAN JIAO YE HUANG LIAN *Coptis deltoidea* (rhizome: mean content = 1.32%)^[5508], SHAO CHI XIAO BO *Berberis potaninii* (root, stem: mean content = 0.930%)^[5508], SHEN HUANG ZI JIN *Corydalis lutea*, SHI DA GONG LAO MU *Mahonia bealei* (stem: mean content of 4 origins 0.26%)^[5510], TIAN XIAN TENG *Fibraurea recisa* (dried lianoid stem: content = 0.76%), TOU MING TANG SONG CAO *Thalictrum lucidum*, TU HUANG LIAN *Berberis julianae*, WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*] (stem: mean content of 2 origins = 0.18%)^[5510], XI BING SHI DA GONG LAO *Mahonia gracilipes* (stem: mean content of 4 origins = 0.38%)^[5510], XI YE GONG LAO MU *Mahonia fortunei* (stem: mean content of 4 origins = 0.52%)^[5510], XI YE XIAO BO *Berberis poiretii*, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAN E HUANG LIAN *Coptis linearisepala* (rhizome: content = 0.79%)^[5508], XIAN HUANG XIAO BO *Berberis diaphana* (root, stem: mean content = 0.200%)^[5508], XIAO BO *Berberis amurensis*, XIAO GUO SHI DA GONG LAO *Mahonia bodinieri* (stem: content = 0.26%)^[5510], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.13%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content = 0.18%)^[5508], YUN NAN HUANG LIAN *Coptis teetoides* [Syn. *Coptis teeta*] (rhizome: mean content = 1.10%)^[5508], ZHI YI XIAO BO *Berberis dubia* (root, stem: mean content = 0.249%)^[5508]. **Ref:** 2, 4, 537, 658, 687, 5501, 5508, 5510.

**11852 Javanicin**

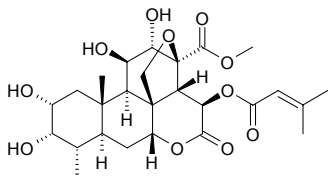
C₂₄H₂₈O₁₂ (508.48). Crystals, mp 167–168°C, [α]_D = –30° (c = 0.02, MeOH). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 2.



11853 Javanicolide C

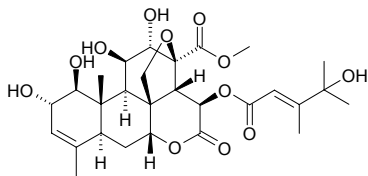
$C_{26}H_{36}O_{11}$ (524.57). Amorphous powder, $[\alpha]_D^{26} = +60.0^\circ$ ($c = 0.07$, MeOH).

Pharm: Cytotoxic inactive (*in vitro*, P_{388} , $IC_{50} > 100\mu\text{g/mL}$). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000019%dw). **Ref:** 4748.

**11854 Javanicolide D**

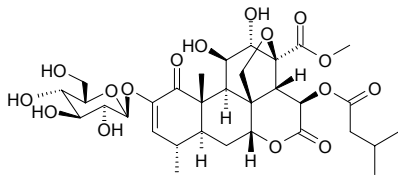
$C_{28}H_{38}O_{12}$ (566.61). Amorphous powder, $[\alpha]_D^{26} = +60.0^\circ$ ($c = 0.06$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 18\mu\text{g/mL}$, weak activity). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00005%dw). **Ref:** 4748.

**11855 Javanicoside B**

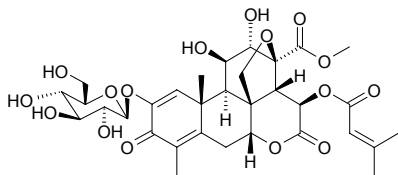
$C_{32}H_{44}O_{16}$ (684.7). Amorphous powder, $[\alpha]_D^{26} = -20.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 5.6\mu\text{g/mL}$). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00012%dw). **Ref:** 4748.

**11856 Javanicoside C**

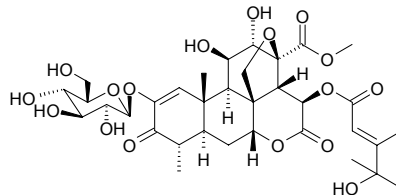
$C_{32}H_{40}O_{16}$ (680.67). Amorphous powder, $[\alpha]_D^{26} = -34.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 18\mu\text{g/mL}$, weak activity). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000026%dw). **Ref:** 4748.

**11857 Javanicoside D**

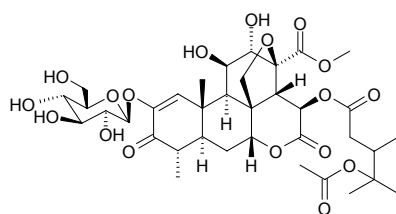
$C_{35}H_{48}O_{17}$ (740.76). Amorphous powder, $[\alpha]_D^{24} = +4.2^\circ$ ($c = 0.24$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 89\mu\text{g/mL}$, weak activity). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000059%dw). **Ref:** 4748.

**11858 Javanicoside E**

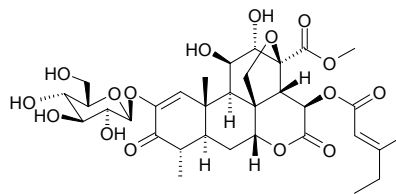
$C_{36}H_{50}O_{18}$ (770.79). Amorphous powder, $[\alpha]_D^{24} = -2.3^\circ$ ($c = 0.44$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 16\mu\text{g/mL}$, weak activity). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00011%dw). **Ref:** 4748.

**11859 Javanicoside F**

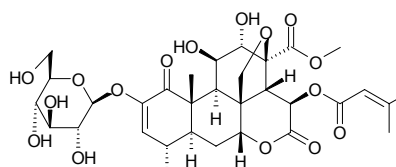
$C_{33}H_{44}O_{16}$ (696.71). Amorphous powder, $[\alpha]_D^{24} = +10.4^\circ$ ($c = 0.24$, MeOH).

Pharm: Cytotoxic (*in vitro*, P_{388} , $IC_{50} = 50\mu\text{g/mL}$, weak activity). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00006%dw). **Ref:** 4748.

**11860 Javanicoside I**

$C_{32}H_{42}O_{16}$ (682.68). Amorphous powder, $[\alpha]_D^{26} = -2.0^\circ$ ($c = 0.65$, MeOH).

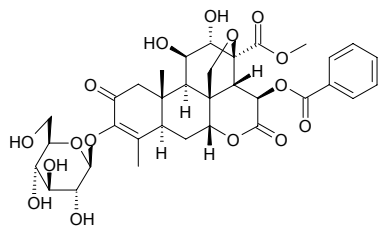
Pharm: Cytotoxic (P_{388} , $IC_{50} = 7.5\mu\text{g/mL}$). **Source:** KU YA DAN ZI *Brucea amarissima* (seed). **Ref:** 3893.



11861 Javanicoside J

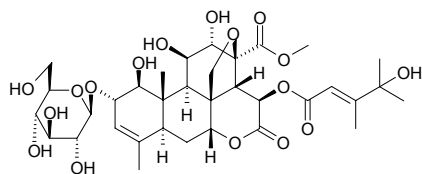
$C_{34}H_{40}O_{16}$ (704.69). Amorphous powder, $[\alpha]_D^{26} = +1.3^\circ$ ($c = 0.24$, MeOH).

Pharm: Cytotoxic (P_{388} , $IC_{50} = 2.3\mu\text{g/mL}$). **Source:** KU YA DAN ZI *Brucea amarissima* (seed). **Ref:** 3893.

**11862 Javanicoside K**

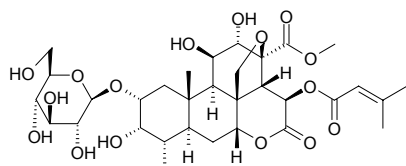
$C_{34}H_{48}O_{17}$ (728.75). Amorphous powder, $[\alpha]_D^{26} = +31^\circ$ ($c = 0.12$, MeOH).

Pharm: Cytotoxic (P_{388} , $IC_{50} = 1.6\mu\text{g/mL}$). **Source:** KU YA DAN ZI *Brucea amarissima* (seed). **Ref:** 3893.

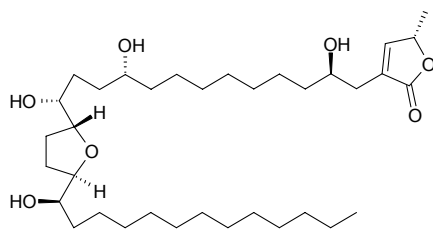
**11863 Javanicoside L**

$C_{32}H_{46}O_{16}$ (686.71). Amorphous powder, $[\alpha]_D^{26} = -5.8^\circ$ ($c = 0.31$, MeOH).

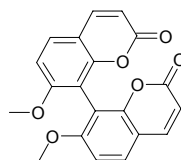
Pharm: Cytotoxic (P_{388} , $IC_{50} = 2.9\mu\text{g/mL}$). **Source:** KU YA DAN ZI *Brucea amarissima* (seed). **Ref:** 3893.

**11864 Javoricin**

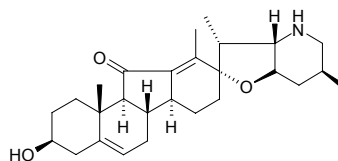
[172588-18-0] $C_{35}H_{64}O_7$ (596.90). White amorphous powder (hexane), mp 70°C , $[\alpha]_D^{25} = +13.6^\circ$ ($c = 0.1$, chloroform). **Pharm:** Antineoplastic (A549, $IC_{50} = 0.017\mu\text{g/mL}$, MCF7, $IC_{50} = 0.23\mu\text{g/mL}$, HT29, $IC_{50} = 1.8\mu\text{g/mL}$); cytotoxic (BST, $IC_{50} = 4.9\mu\text{g/mL}$, PD, InRt = 47%). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1062.

**11865 Jayantinin**

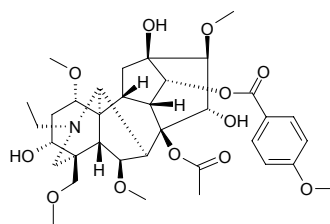
7,7'-Dimethoxy-8,8'-bicooumarin $C_{20}H_{14}O_6$ (350.33). mp $255\sim 256^\circ\text{C}$. **Source:** SHI JIAO CAO *Boenninghausenia sessilicarpa*, YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**11866 Jervine**

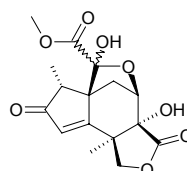
[469-59-0] $C_{27}H_{39}NO_3$ (425.62). mp $237\sim 238^\circ\text{C}$. **Pharm:** Antibacterial; teratogen (sheep). **Source:** BAI LI LU *Veratrum album*, LV LI LU *Veratrum viride*, MAO YE LI LU *Veratrum grandiflorum*, LI LU *Veratrum nigrum*. **Ref:** 658.

**11867 Jesaconitine**

[16298-90-1] $C_{35}H_{49}NO_{12}$ (675.78). Amorphous, mp $128\sim 131^\circ\text{C}$. **Pharm:** Intestinal smooth muscle stimulant (mammal, in low dose); similar action with aconitine; toxin (mammal). **Source:** BO YE WU TOU *Aconitum fischeri*, XIE XING WU TOU *Aconitum subcuneatum*, KU YE WU TOU *Aconitum sachalinense*. **Ref:** 658.

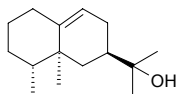
**11868 Jiadifenin**

$C_{16}H_{18}O_8$ (338.32). Colorless amorphous, $[\alpha]_D^{22} = -152.9^\circ$ ($c = 0.24$, EtOH). **Pharm:** Neurotropic (primary cultures of fetal rat cortical neuron, $0.1\sim 10\mu\text{mol/L}$, significantly promotes neurite outgrowth). **Source:** JIA DI FENG PI *Illicium jiadifengpi* (pericarp; yield = 0.00014%dw). **Ref:** 4621.

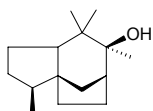


11869 Jinkoheremol

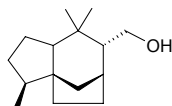
[86747-08-2] C₁₅H₂₆O (222.37). Pharm: CNS depressant (mus, inhibits spontaneous motion induced by pervitine and apomorphine, increases content of homovanillic acid in cerebrum). Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13, 1789.

**11870 Jinkohol I**

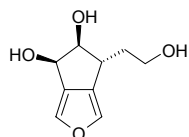
C₁₅H₂₆O (222.37). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**11871 Jinkohol II**

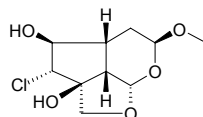
[86703-03-9] C₁₅H₂₆O (222.37). Crystals (CHCl₃), mp 79–81°C, [α]_D²⁰ = +32.4° (c = 0.26, CHCl₃). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13, 1521.

**11872 Jiofuran**

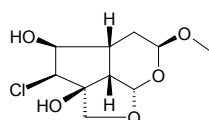
[124902-19-8] C₉H₁₂O₄ (184.19). Amorphous powder, [α]_D²⁴ = –30.4° (c = 0.19, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11873 Jioglutin A**

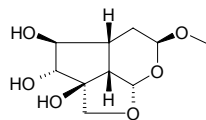
[124902-16-5] C₁₀H₁₅ClO₅ (250.68). Amorphous powder, [α]_D²⁰ = +63.3° (c = 1, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11874 Jioglutin B**

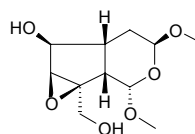
[124989-76-0] C₁₀H₁₅ClO₅ (250.68). Amorphous powder, [α]_D²⁰ = –63.2° (c = 0.94, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11875 Jioglutin C**

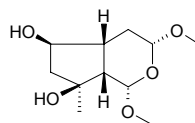
[124902-17-6] C₁₀H₁₆O₆ (232.24). Amorphous powder, [α]_D²⁰ = +58.1° (c = 0.89, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11876 Jioglutin D**

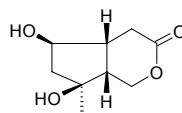
[128443-55-0] C₁₁H₁₈O₆ (246.26). Amorphous powder, [α]_D²⁰ = +54.9° (c = 1.23, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11877 Jioglutin E**

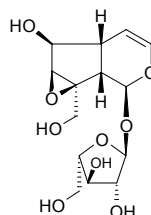
[128397-37-5] C₁₁H₂₀O₅ (232.28). Amorphous powder, [α]_D²⁰ = –118.2° (c = 0.95, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

**11878 Jioglutolide**

C₉H₁₄O₄ (186.21). Needles (Me₂CO), mp 141–142°C, [α]_D²⁰ = –8.4° (c = 1.19, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

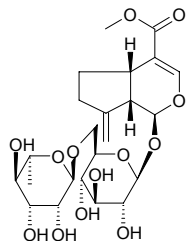
**11879 Jioglutoside A**

[124167-99-3] C₁₄H₂₀O₉ (332.31). Amorphous powder, [α]_D²⁰ = –158.8° (c = 1.65, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 1521.

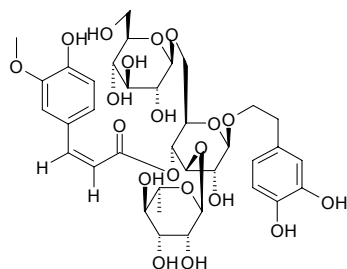


11880 Jioglutoside B

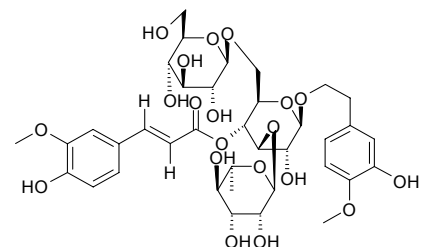
$C_{23}H_{34}O_{13}$ (518.52). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2.

**11881 Jionoside A₂**

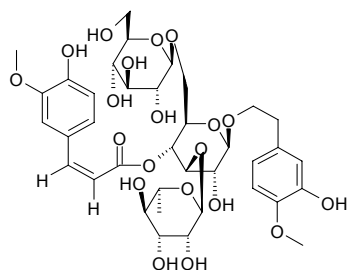
[120406-36-2] $C_{36}H_{48}O_{20}$ (800.77). Amorphous powder, $[\alpha]_D^{24} = -40.3^\circ$ ($c = 0.36$, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2, 1521.

**11882 Jionoside B₁**

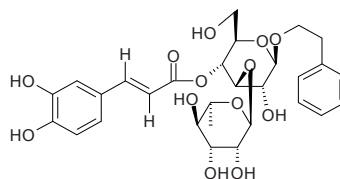
[120406-37-3] $C_{37}H_{50}O_{20}$ (814.80). Amorphous powder, $[\alpha]_D^{24} = -62.8^\circ$ ($c = 0.31$, MeOH). Pharm: Immunosuppressant (mus, 100mg/kg, orl, inhibits formation of the lemlytic spots formation cells, HPFC ,cells in spleen, InRt = 36.1%); tonic, antianemic and antipyretic (in Adhesive Rehmannia Dried Root, GAN DI HUANG, *Rehmannia glutinosa*). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 658, 660, 1521, 1785.

**11883 Jionoside B₂**

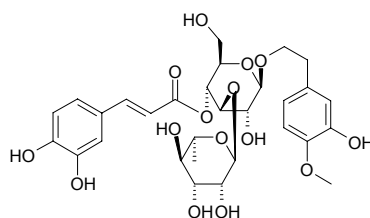
[120445-12-7] $C_{37}H_{50}O_{20}$ (814.80). Amorphous powder, $[\alpha]_D^{24} = -42.5^\circ$ ($c = 0.34$, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2, 1521.

**11884 Jionoside C**

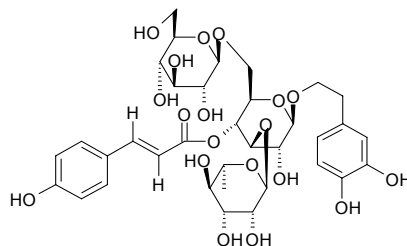
[120406-33-9] $C_{29}H_{36}O_{13}$ (592.60). Amorphous powder, $+2H_2O$, $[\alpha]_D^{25} = -86.9^\circ$ ($c = 0.72$, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2, 1521.

**11885 Jionoside D**

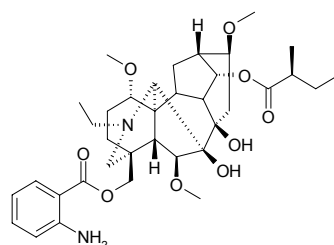
[120406-34-0] $C_{30}H_{38}O_{15}$ (638.63). Off-white powder, $+1H_2O$, $[\alpha]_D^{28} = -95.7^\circ$ ($c = 0.22$, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*], DA YE ZUI YU CAO *Buddleja davidii*. Ref: 2, 1521.

**11886 Jionoside E**

[120406-35-1] $C_{35}H_{46}O_{19}$ (770.75). Amorphous powder, $+2.5H_2O$, $[\alpha]_D^{28} = -64.6^\circ$ ($c = 0.11$, MeOH). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2, 1521.

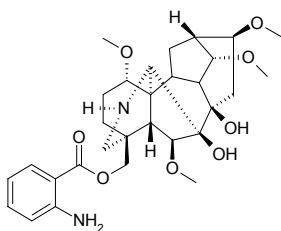
**11887 Jiufengdine**

$C_{36}H_{52}N_2O_9$ (656.82). White amorphous powder, $[\alpha]_D = +63.8^\circ$ ($c = 0.5$, $CHCl_3$). Source: HEI SHUI CUI QUE HUA BIAN ZHONG *Delphinium potaninii* var. *jiufengshanense* (root). Ref: 4227.

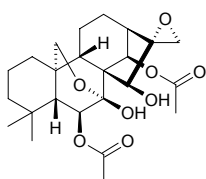


11888 Jiufengtine

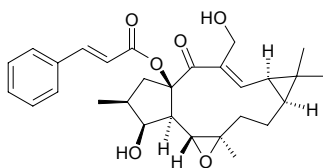
$C_{30}H_{42}N_2O_8$ (558.68). White amorphous powder, $[\alpha]_D^{25} = +46.0^\circ$ ($c = 0.5$, $CHCl_3$). **Source:** HEI SHUI CUI QUE HUA BIAN ZHONG *Delphinium potaninii* var. *jiufengshanense* (root). **Ref:** 4227.

**11889 Jiuhuanin A**

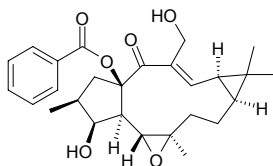
$C_{24}H_{34}O_8$ (450.53). mp 203~205°C, $[\alpha]_D^{25} = -98.6^\circ$ ($c = 0.2$, MeOH). **Source:** JIU HUA DA E XIANG CHA CAI *Isodon macrocalyx* var. *jiuhua*. **Ref:** 4067.

**11890 Jolkinol A**

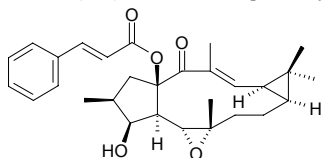
$C_{29}H_{36}O_6$ (480.61). White amorphous powder, $[\alpha]_D^{25} = -120^\circ$ ($c = 0.18$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro* MCF7 cell lines, $GI_{50} = (95.3 \pm 2.7) \mu\text{mol/L}$, Doxorubicin, $GI_{50} = (42.8 \pm 8.2) \mu\text{mol/L}$; NCI-H460 cell lines, $GI_{50} = (57.3 \pm 7.6) \mu\text{mol/L}$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7) \mu\text{mol/L}$; SF268 cell lines, $GI_{50} > 100 \mu\text{mol/L}$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0) \mu\text{mol/L}$). **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4949.

**11891 Jolkinol A'**

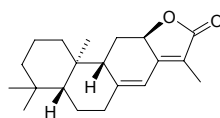
$C_{27}H_{34}O_6$ (454.57). White amorphous powder, $[\alpha]_D^{25} = -78^\circ$ ($c = 0.10$, $CHCl_3$). **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4949.

**11892 Jolkinol B**

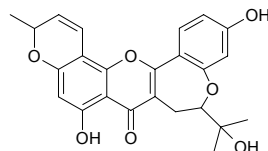
$C_{29}H_{36}O_5$ (464.61). Colorless oil. **Source:** DA GUO DA JI *Euphorbia wallichii* (root), NAN DA JI *Euphorbia jolkini*. **Ref:** 1521, 4585.

**11893 Jolkinolide E**

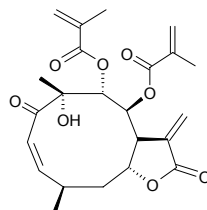
[54494-34-7] $C_{20}H_{28}O_2$ (300.44). Crystals, mp 181~182°C, mp 182~183°C, $[\alpha]_D^{20} = +340^\circ$ ($c = 0.45$, chloroform). **Source:** DA LANG DU *Euphorbia nematocypa*, NAN DA JI *Euphorbia jolkini*. **Ref:** 547, 1521.

**11894 JSPC0305368-18**

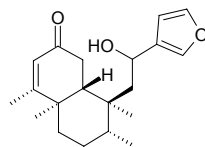
$C_{24}H_{22}O_7$ (422.44). **Source:** *Morus* sp. **Ref:** 2513.

**11895 Juanislamin**

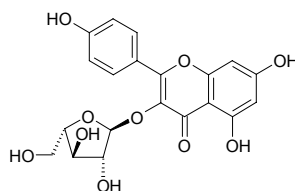
$C_{23}H_{28}O_8$ (432.47). White powder. **Pharm:** Cytotoxic (U937, $IC_{50} = 3.0 \mu\text{mol/L}$; control Parthenolide, $IC_{50} = 1.9 \mu\text{mol/L}$). **Source:** YOU KA MEI JU *Calea urticifolia* (leaf). **Ref:** 3887.

**11896 (12R)-Judrpxucascainone**

$C_{20}H_{28}O_3$ (316.44). **Source:** GE LUN BI YA BA DOU *Croton schiedeanus*. **Ref:** 4552.

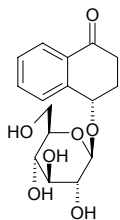
**11897 Juglanin**

Kaempferol 3-*O*- α -L-arabinofuranoside [5041-67-8] $C_{20}H_{18}O_{10}$ (418.36) mp 224~225°C (containing 1.5H₂O). **Pharm:** Aldose reductase inhibitor (rat, eye lens, 10 $\mu\text{mol/L}$ InRt = 64.8%, 1 $\mu\text{mol/L}$ InRt = 6.3%); hepatoprotective (primary cultures of rat hepatocytes, H₂O₂-induced toxicity, 50 $\mu\text{mol/L}$, relative protection = 39.7% (H₂O₂-treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%)^[4996]. **Source:** HU TAO YE *Juglans regia*, HUI XIANG JING YE *Foeniculum vulgare*, TOU GU CAO *Speranskia tuberculata*, RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts), ZHEN ZHU MEI *Sorbaria sorbifolia*. **Ref:** 6, 1631, 4996.

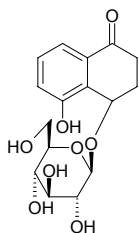


11898 Juglanoside A

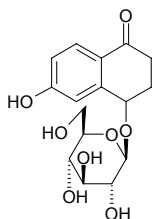
(4S)-4-Hydroxy- α -tetralone 4-*O*- β -D-glucopyranoside C₁₆H₂₀O₇ (324.33). Amorphous powder, $[\alpha]_D^{25} = -77^\circ$ ($c = 0.9$, MeOH). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (Fruit). Ref: 4285.

**11899 Juglanoside B**

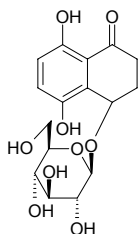
(4S)-4,5-Dihydroxy- α -tetralone 4-*O*- β -D-glucopyranoside C₁₆H₂₀O₈ (340.33). Amorphous powder, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.5$, MeOH). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (Fruit). Ref: 4285.

**11900 Juglanoside C**

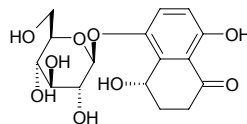
(4S)-4,6-Dihydroxy- α -tetralone 4-*O*- β -D-glucopyranoside C₁₆H₂₀O₈ (340.33). Amorphous powder, $[\alpha]_D^{25} = -36^\circ$ ($c = 0.4$, MeOH). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (Fruit). Ref: 4285.

**11901 Juglanoside D**

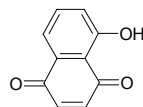
(4S)-4,5,8-Trihydroxy- α -tetralone 4-*O*- β -D-glucopyranoside C₁₆H₂₀O₉ (356.33). Amorphous powder, $[\alpha]_D^{25} = -45^\circ$ ($c = 0.2$, MeOH). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (Fruit). Ref: 4285.

**11902 Juglanoside E**

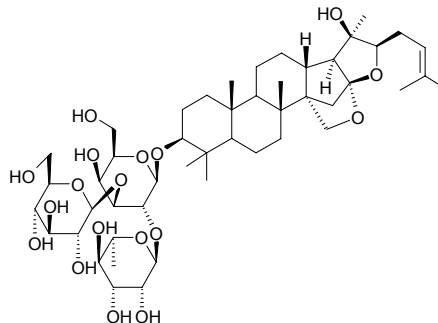
(4S)-4,5,8-Trihydroxy- α -tetralone 5-*O*- β -D-glucopyranoside C₁₆H₂₀O₉ (356.33). Amorphous powder, $[\alpha]_D^{25} = -65^\circ$ ($c = 1.1$, MeOH). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (Fruit). Ref: 4285.

**11903 Juglone**

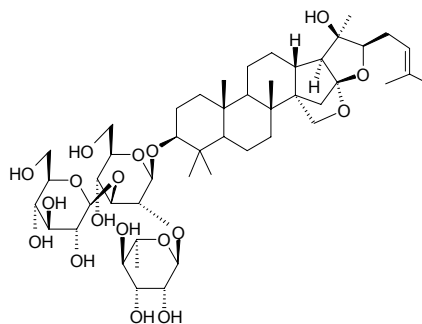
5-Hydroxy-1,4-naphthoquinone; Yuglon [481-39-0] C₁₀H₆O₃ (174.16). mp 153–155°C. Pharm: Allelopathic agent (produced from walnut tree *Juglans regia*); antibacterial (broad spectrum); antineoplastic (animal model); antifungal (*Aspergillus flavus*); antiviral (influenza virus A and B); insect antifeedant (*Scolytus multistriatus*); sedative (mammal and fish); molluscicide; ichthyotoxin (MLC = 0.2×10^{-6})^[4185]. Source: HEI HU TAO *Juglans nigra*, HU TAO REN *Juglans regia*, CU PI SHAN HE TAO *Carya ovata*, MEI GUO SHAN HE TAO *Carya illinoensis*, HUA XIANG SHU YE *Platycarya strobilacea*. Ref: 658, 4185.

**11904 Jujubasaponin IV**

[146445-93-4] C₄₈H₇₈O₁₈ (943.15). Amorphous powder, mp 185–187°C, $[\alpha]_D = -3.64^\circ$ ($c = 5.0$, methanol). Pharm: Anti-sweetener (1mmol/L, inhibits sweet taste of 0.2mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 970.

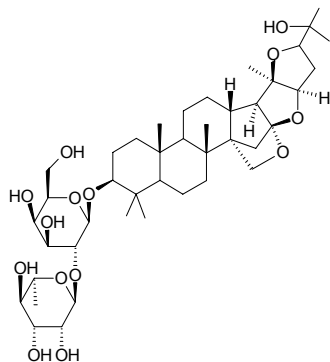
**11905 Jujubasaponin V**

[146503-31-3] C₄₈H₇₈O₁₈ (943.15). Amorphous powder, mp 210–212°C, $[\alpha]_D = -14.2^\circ$ ($c = 4.3$, methanol). Pharm: Anti-sweetener (1mmol/L, inhibits sweet taste of 0.2mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 970.

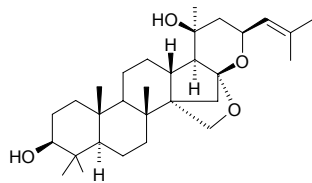


11906 Jujubasaponin VI

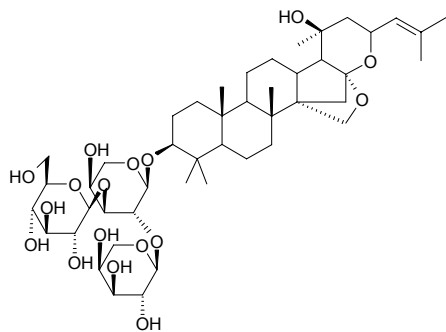
[146445-94-5] C₄₂H₆₈O₁₄ (797.00). Amorphous powder, mp 199–201°C, [α]_D = 28.1° (c = 4.5, methanol). **Pharm:** Anti-sweetener (1mmol/L, inhibits sweet taste of 0.2mol/L sugar). **Source:** DA ZAO *Ziziphus jujuba*. **Ref:** 970.

**11907 Jujubogenin**

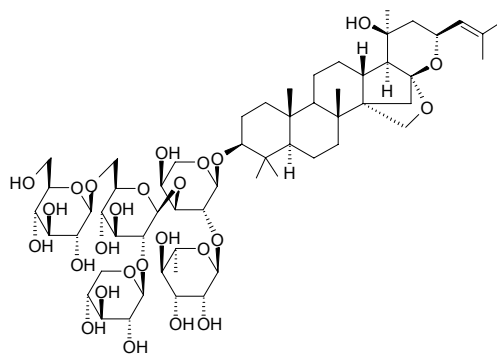
[54815-36-0] C₃₀H₄₈O₄ (472.71). **Source:** SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 2.

**11908 Jujubogenin 3-O- α -L-arabinofuranosyl-(1→2)-[β -D-glucopyranosyl-(1→3)]- α -L-arabinopyranoside**

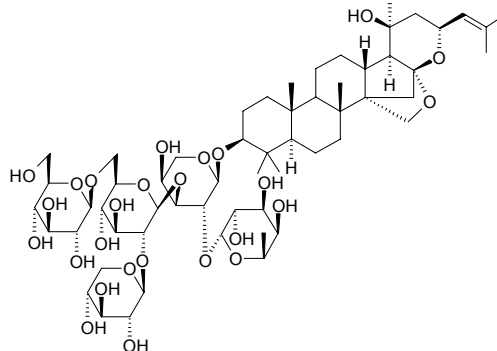
C₄₆H₇₄O₁₇ (899.09). **Source:** JIA MA CHI XIAN *Bacopa monniera* (aerial parts). **Ref:** 4316.

**11909 Jujuboside A**

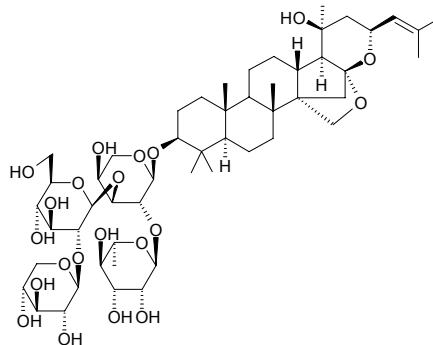
3-O-[α -L-Rhamnopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→6)-[β -D-xylopyranosyl-(1→2)]- β -D-glucopyranosyl-(1→3)]- α -L-arabinopyranoside] [55466-04-1] C₅₈H₉₄O₂₆ (1207.38). **Pharm:** Inhibits hippocampal formation (*in vitro* and *in vivo*); inhibits Glu-mediated excitatory signal pathway (in hippocampus and probably acts through its anti-calmodulin action, similar effect with TFP)^[5433]. **Source:** DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa* (seed: mean content of 4 origins = 0.062%^[5508]). **Ref:** 2, 5433, 5508.

**11910 Jujuboside A₁**

3-O-[β -D-Glucopyranosyl-(1→6)-[β -D-xylopyranosyl-(1→2)]- β -D-glucopyranosyl-(1→3)-[α -D-fucopyranosyl-(1→2)]- α -L-arabinopyranoside] [194851-84-8] C₅₈H₉₄O₂₆ (1207.38). Amorphous powder (water–methanol), mp 223–225°C, [α]_D²⁹ = –47.6° (c = 0.3, methanol). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneum oozing cells, caused by antigen-antibody reaction, 100 μ mol/L, InRt = 30.3%). **Source:** SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 971.

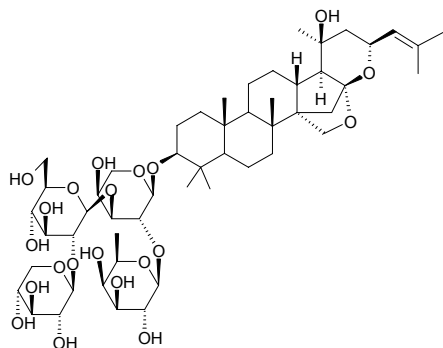
**11911 Jujuboside B**

[55466-05-2] C₅₂H₈₄O₂₁ (1045.24). **Pharm:** Anti-sweetener (1mmol/L, inhibits sweet taste of 0.2mol/L sugar). **Source:** DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa* (seed: mean content of 4 origins = 0.037%^[5508]). **Ref:** 2, 1754, 5508.

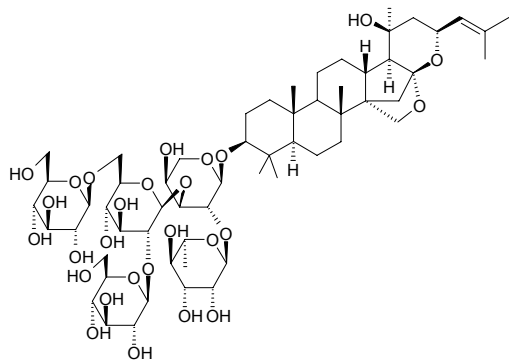


11912 Jujuboside B₁

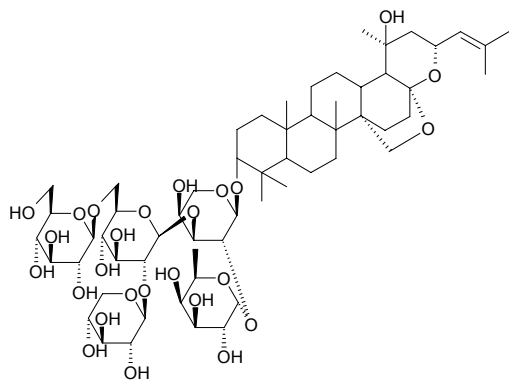
C₅₂H₈₄O₂₁ (1045.24). Source: DA ZAO *Ziziphus jujuba*. Ref: 660.

**11913 Jujuboside C**

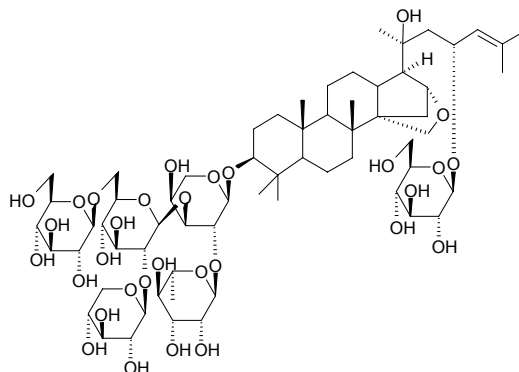
[194852-14-7] C₅₉H₉₆O₂₇ (1237.41). Colorless thin crystals (water-methanol), mp 229–231°C, [α]_D²⁹ = –32.8° (c = 0.3, methanol). Pharm: Antihistamine (inhibits histamine release, rat peritoneum oozing cells, caused by antigen-antibody reaction, 100 μmol/L, InRt = 71.4%). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 971.

**11914 Jujuboside D**

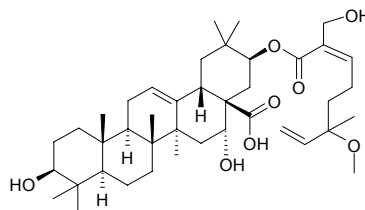
C₅₉H₉₆O₂₆ (1221.41). White powder, mp 171–174°C. Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 4847.

**11915 Jujuboside E**

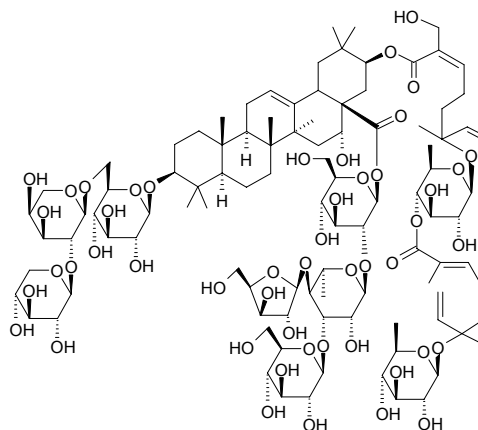
3β,20,23-Trihydroxy-16,30-epoxy-dammar-24-ene-23-O-β-D-glucopyranosyl-3-O-β-D-xylopyranosyl(1→2)-[β-D-glucopyranosyl(1→6)]-β-D-glucopyranosyl(1→3)-[α-L-rhamnopyranosyl(1→2)]-α-L-arabinopyranoside C₆₄H₁₀₆O₃₁ (1371.54). White powder, mp 171–174°C. Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 2481.

**11916 Julibrogenin A**

21-O-(2-Hydroxymethyl-6-methyl-6-methoxy-2,7-octadienyl)acetic acid C₄₁H₆₄O₈ (684.96). White powder, mp 244–246°C. Source: HE HUAN PI *Albizia julibrissin*. Ref: 375.

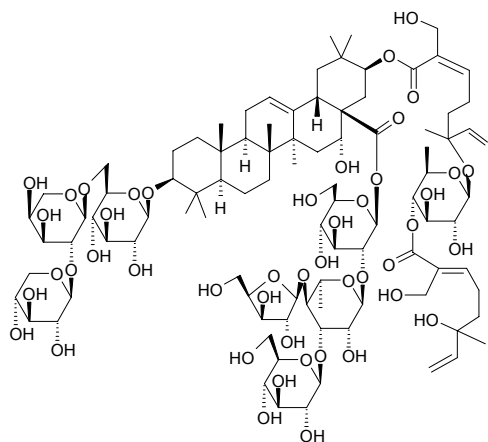
**11917 Julibroside**

3-O-[β-D-Xylopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranosyl]-21-O-[(6S)-2-trans-2-hydroxymethyl-6-methyl-6-O-[4-O-((6S)-2-trans-2,6-dimethyl-6-O-(6-deoxy-β-D-glucopyranosyl)-2,7-octadienyl)-6-deoxy-β-D-glucopyranosyl]-2,7-octadienyl]-28-O-β-glucopyranosyl-(1→3)-α-L-arabinofuranosyl-(1→4)]-α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranosyl ester C₁₀₁H₁₆₀O₄₉ (2158.37). White powder, mp 170–172°C. Source: HE HUAN PI *Albizia julibrissin*. Ref: 374.

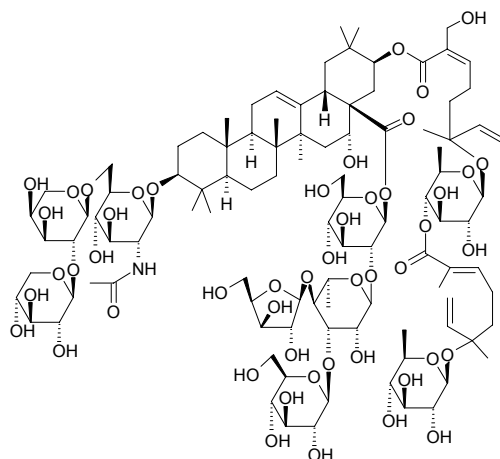


11918 Julibroside J₂

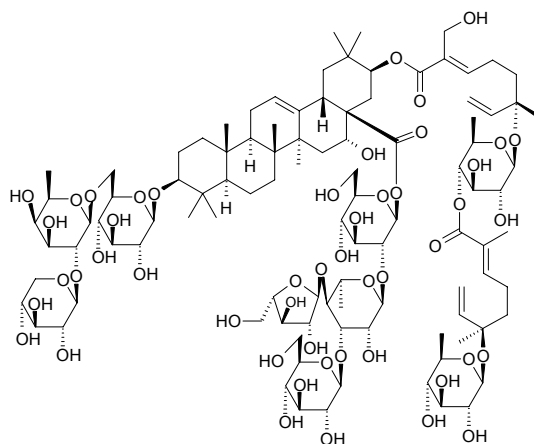
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-hydroxy-2,7-octadienyl)-6-deoxy- β -*D*-glucopyranosyl]-2,7-octadienyl}-acacic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester C₉₅H₁₅₀O₄₆ (2028.23). White powder, mp 202–204°C. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 374.

**11919 Julibroside J₃**

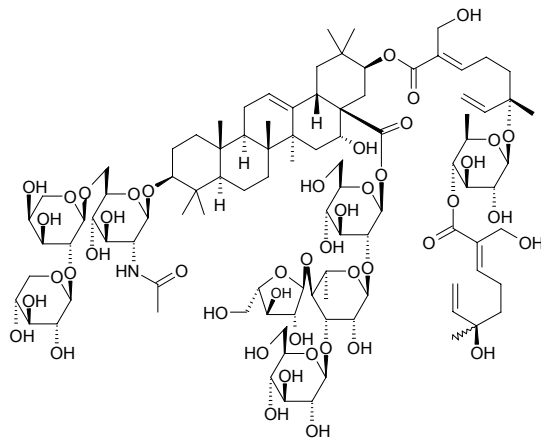
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)-2-acetamido-2-deoxy- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2,6-dimethyl-6-*O*-(6-deoxy- β -*D*-glucopyranosyl)-2,7-octadienyl)-6-deoxy- β -*D*-glucopyranosyl]-2,7-octadienyl}-acacic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester C₁₀₃H₁₆₃NO₄₉ (2199.42). White powder, mp 204–206°C. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 374.

**11920 Julibroside J₅**

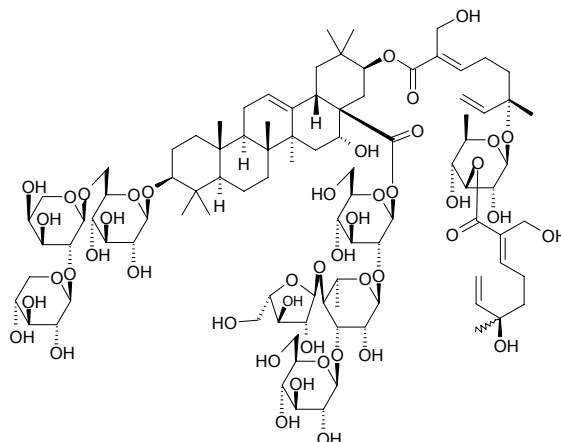
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-fucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-[(6*R*)-2-*trans*-2,6-dimethyl-6-*O*-(β -*D*-quinovopyranosyl)-2,7-octadienyl]- β -*D*-quinovopyranosyl-2,7-octadienyl]-acacic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester C₁₀₁H₁₆₀O₄₉ (2172.40). White powder, $[\alpha]_D^{14} = -35.0^\circ$ ($c = 0.050$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11921 Julibroside J₆**

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-2-deoxy-2-acetamido-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-hydroxy-2,7-octadienyl)- β -*D*-quinovopyranosyl-2,7-octadienyl]-acacic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester C₉₇H₁₅₃NO₄₆ (2069.28). White powder, $[\alpha]_D^{17} = -34.9^\circ$ ($c = 0.042$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

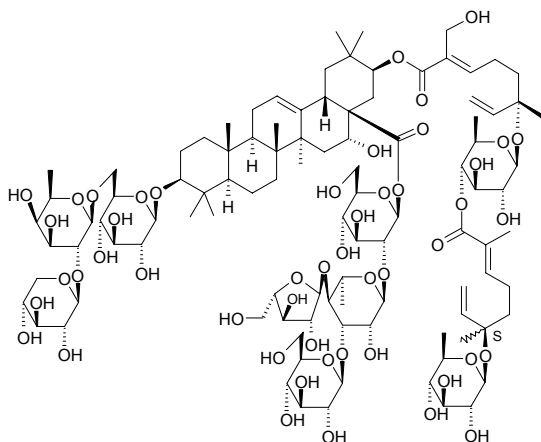
**11922 Julibroside J₇**

C₉₅H₁₅₀O₄₆ (2028.23). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

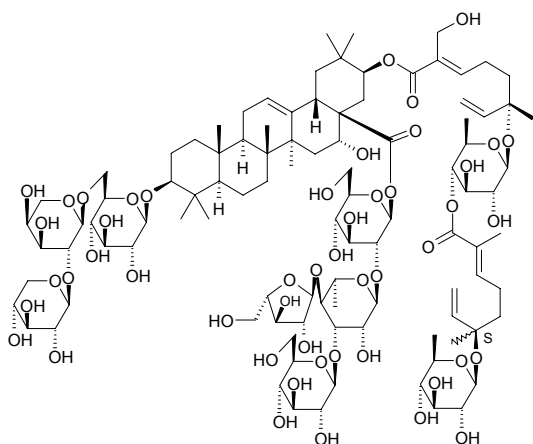


11923 Julibroside J₈

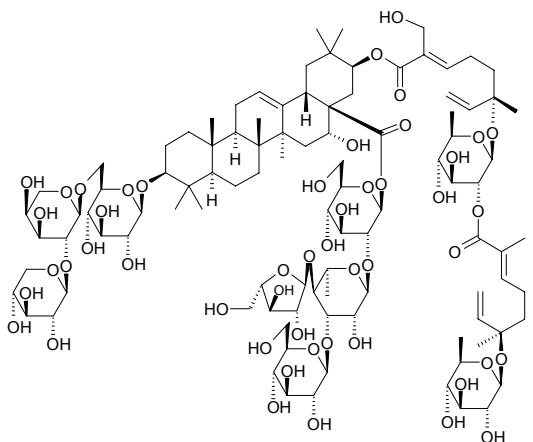
C₁₀₂H₁₆₂O₄₉ (2172.40). White powder, $[\alpha]_D^{14} = -28.6^\circ$ ($c = 0.035$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11924 Julibroside J₉**

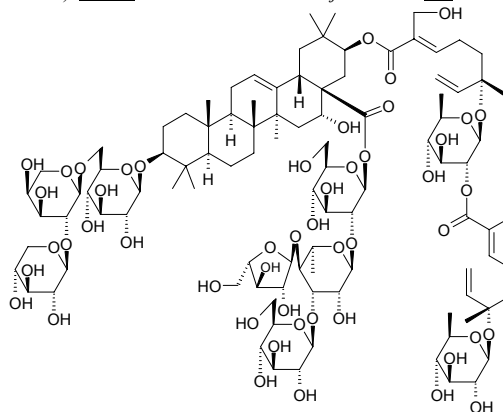
C₁₀₁H₁₆₀O₄₉ (2158.37). White powder, $[\alpha]_D^{14} = -32.5^\circ$ ($c = 0.11$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11925 Julibroside J₁₀**

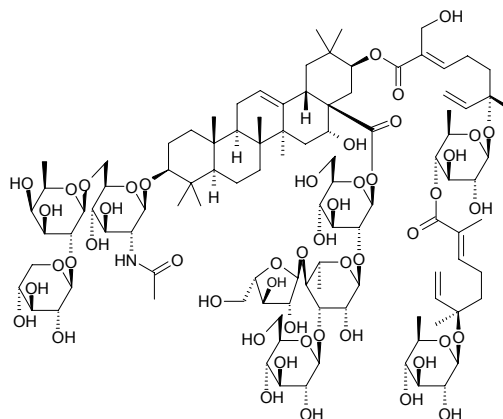
C₁₀₁H₁₆₀O₄₉ (2158.37). White powder, $[\alpha]_D^{17} = -57.1^\circ$ ($c = 0.018$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11926 Julibroside J₁₁**

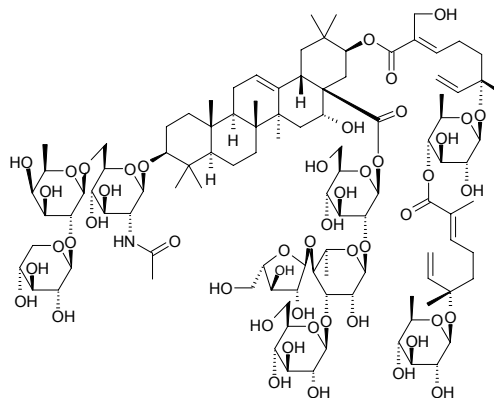
3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-[(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-(2-*O*-[(6*S*)-2-*trans*-2,6-dimethyl-6-*O*- β -*D*-quinovopyranosyl-2,7-octadienyl]- β -*D*-quinovopyranosyl-2,7-octadienyl)-acacic acid 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3)-[α -*L*-arabinofuranosyl(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl ester C₁₀₁H₁₆₀O₄₉ (2158.37). White powder, $[\alpha]_D^{17} = -78.6^\circ$ ($c = 0.014$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11927 Julibroside J₁₂**

C₁₀₄H₁₆₅NO₄₉ (2213.45). White powder, $[\alpha]_D^{17} = +7.7^\circ$ ($c = 0.078$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

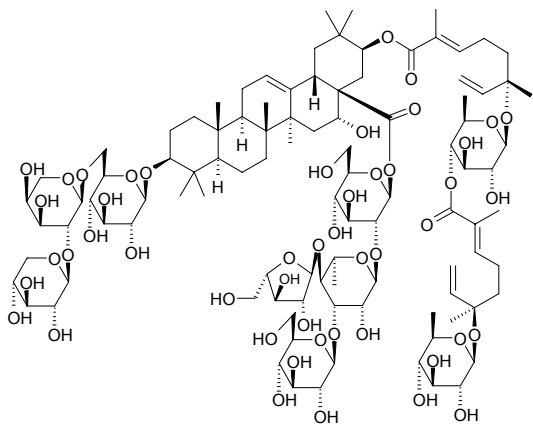
**11928 Julibroside J₁₃**

C₁₀₄H₁₆₅NO₄₉ (2213.45). White powder, $[\alpha]_D^{17} = +23.8^\circ$ ($c = 0.11$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

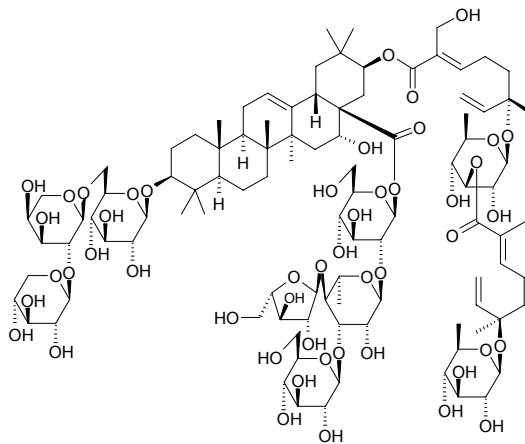


11929 Julibroside J₁₄

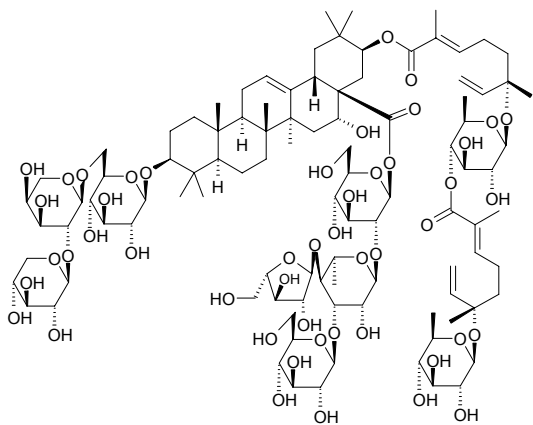
C₁₀₁H₁₆₀O₄₈ (2142.37). White powder, $[\alpha]_D^{17} = -35.7^\circ$ ($c = 0.070$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11932 Julibroside J₁₇**

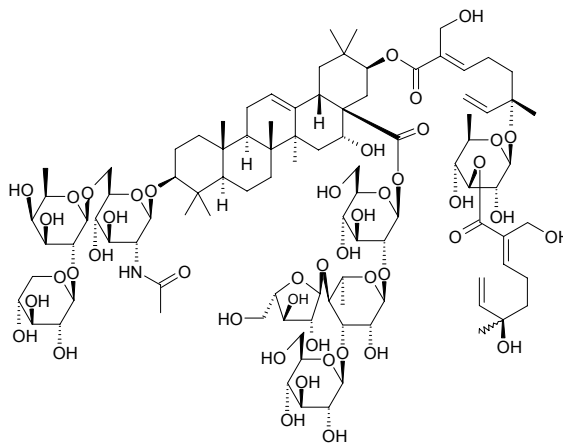
C₁₀₁H₁₆₀O₄₉ (2158.37). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11930 Julibroside J₁₅**

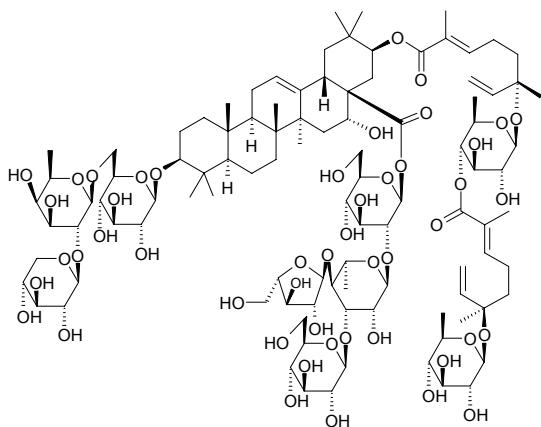
C₁₀₁H₁₆₀O₄₈ (2142.37). White powder, $[\alpha]_D^{17} = -28.0^\circ$ ($c = 0.070$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11933 Julibroside J₁₈**

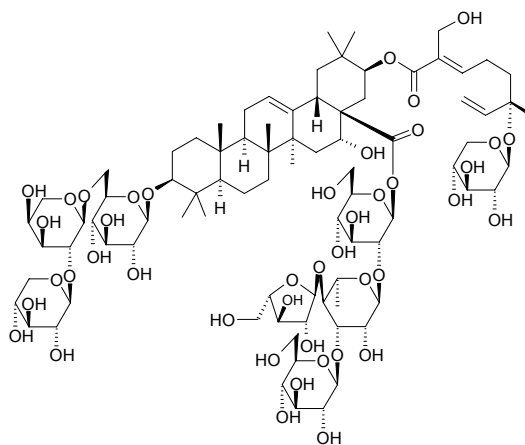
C₉₈H₁₅₅NO₄₆ (2083.31). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11931 Julibroside J₁₆**

C₁₀₂H₁₆₂O₄₈ (2156.40). White powder, $[\alpha]_D^{17} = 0.0^\circ$ ($c = 0.081$, 70% MeOH). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

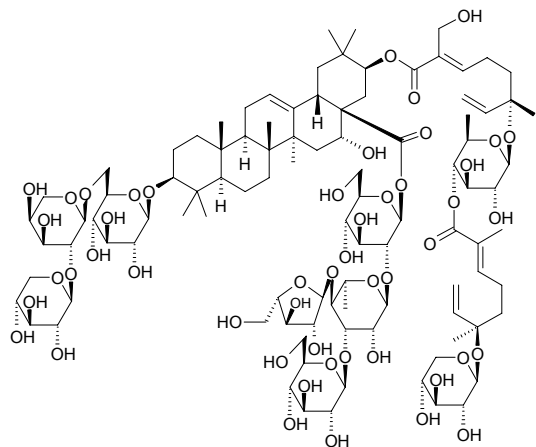
**11934 Julibroside J₂₀**

C₈₄H₁₃₄O₄₃ (1831.98). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

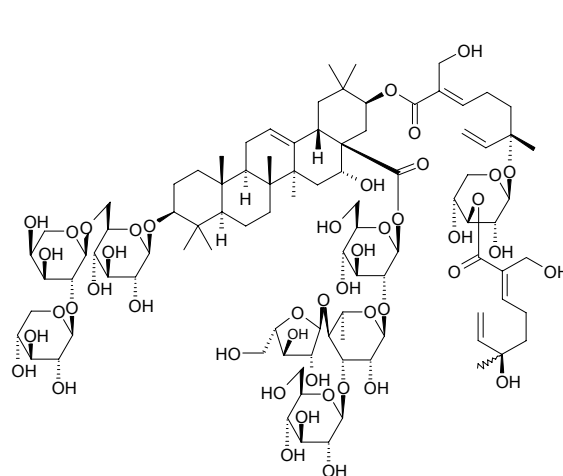


11935 Julibroside J₂₁

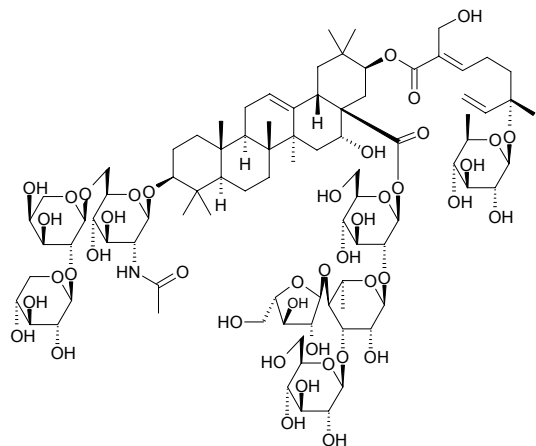
$C_{100}H_{158}O_{49}$ (2144.34). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11938 Julibroside J₂₄**

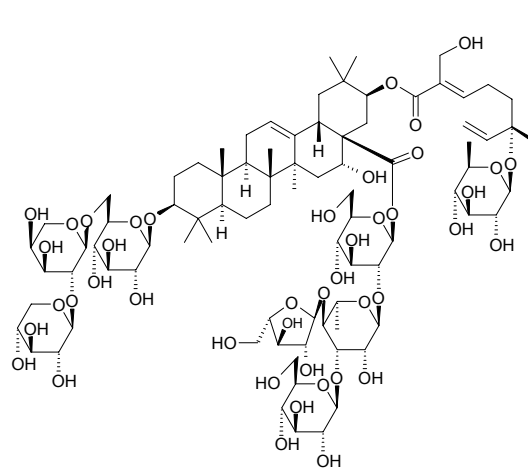
$C_{94}H_{148}O_{46}$ (2014.20). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11936 Julibroside J₂₂**

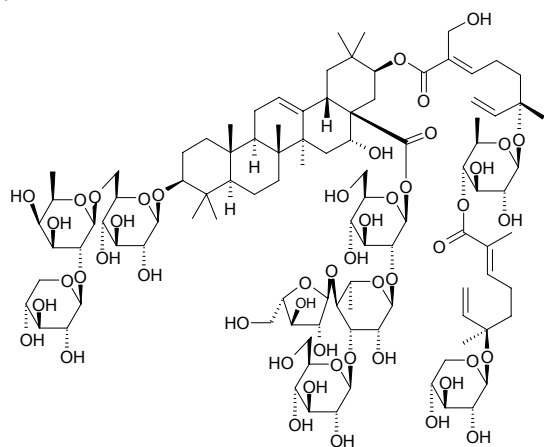
$C_{87}H_{139}NO_{43}$ (1887.06). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11939 Julibroside J₂₅**

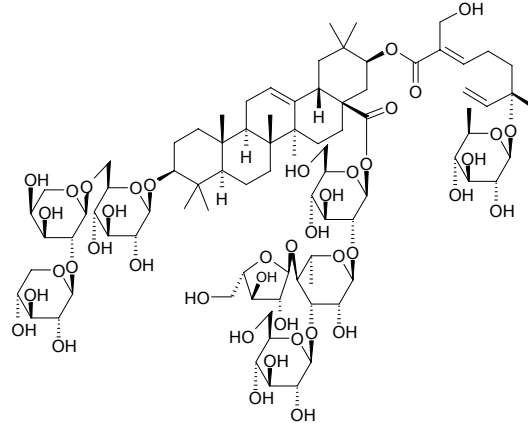
$C_{85}H_{136}O_{43}$ (1846.01). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

**11937 Julibroside J₂₃**

$C_{101}H_{160}O_{49}$ (2158.37). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

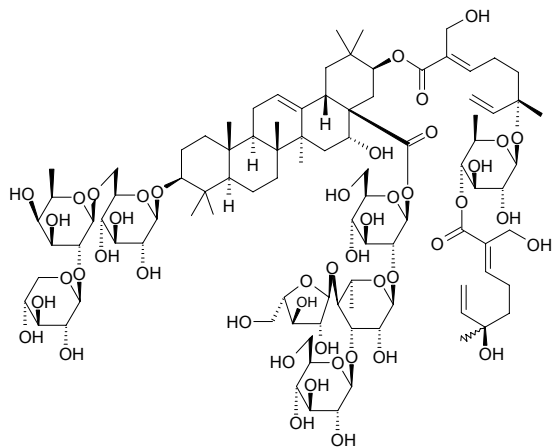
**11940 Julibroside J₂₆**

$C_{85}H_{136}O_{42}$ (1830.01). White powder. Source: HE HUAN PI *Albizzia julibrissin*. Ref: 8.

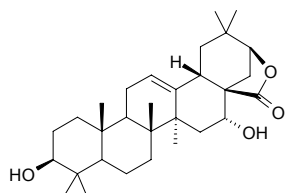


11941 Julibroside J₂₇

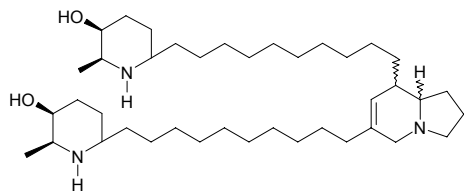
C₉₆H₁₅₂O₄₆ (2042.25). White powder. Source: HE HUAN PI *Albizia julibrissin*. Ref: 8.

**11942 Julibrotriterpenoidal lactone A**

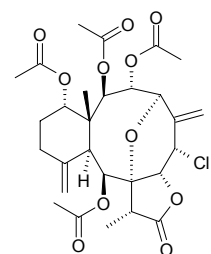
C₃₀H₄₆O₄ (470.70). Source: HE HUAN PI *Albizia julibrissin*. Ref: 660.

**11943 Juliflorine**

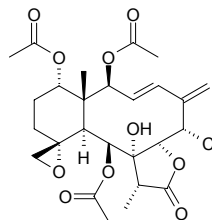
C₄₀H₇₅N₃O₂ (630.06). Pharm: Antibacterial; antifungal. Source: MU DOU SHU *Prosopis juliflora*. Ref: 658.

**11944 Junceellin**

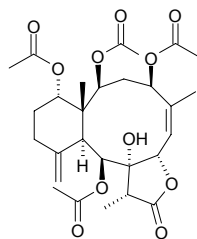
C₂₈H₃₅ClO₁₁ (583.04). White powder, mp 271~272°C, [α]_D²⁵ = -10° (c = 1.8, CHCl₃). Source: CUI DENG XIN LIU SHAN HU *Junceella fragilis*. Ref: 4411.

**11945 Junceollolide C**

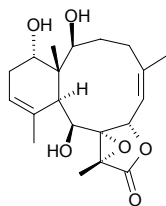
C₂₆H₃₃ClO₁₀ (541.00). Pharm: Cytotoxic inactive (*in vitro*, Hepa59T/VGH, KB16). Source: DENG XIN LIU SHAN HU *Junceella juncea* (outer red layer: yield = 0.0012%ww). Ref: 4680.

**11946 Junceollolide D**

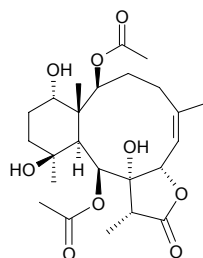
C₂₈H₃₈O₁₁ (550.61). Source: DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00021%). Ref: 4781.

**11947 Junceollolide H**

C₂₀H₂₈O₆ (364.44). White powder, mp 207~209°C, [α]_D²⁵ = -22° (c = 0.8, CHCl₃). Source: CUI DENG XIN LIU SHAN HU *Junceella fragilis*. Ref: 4411.

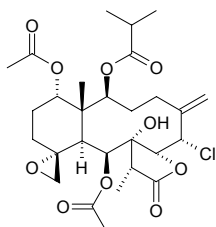
**11948 Junceollolide I**

C₂₄H₃₆O₉ (468.55). White powder, mp 210~212°C, [α]_D²⁵ = -77° (c = 0.7, CHCl₃). Source: CUI DENG XIN LIU SHAN HU *Junceella fragilis*. Ref: 2554.

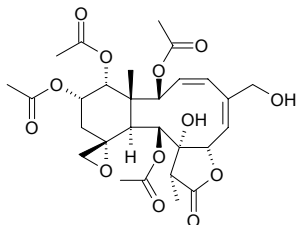


11949 Juncenolide A

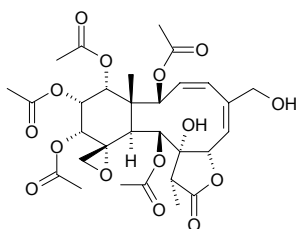
$C_{28}H_{39}ClO_{10}$ (571.07). Colorless prisms, mp 203~205°C, $[\alpha]_D^{25} = -25.5^\circ$ ($c = 0.05$, CH_2Cl_2). **Pharm:** Cytotoxic (*in vitro*, hm colon adenocarcinoma DLD, 3.4 μ g/mL; KB16, 5.9 μ g/mL). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (outer red layer: yield = 0.012%ww). **Ref:** 4601.

**11950 Juncenolide B**

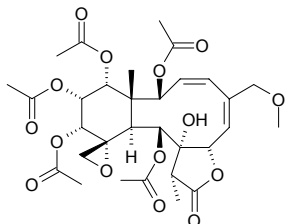
$C_{28}H_{36}O_{13}$ (580.59). Amorphous solid, $[\alpha]_D^{25} = -12.4^\circ$ ($c = 0.4$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, Hepa59T/VGH, KB16). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (outer red layer: yield = 0.0005%ww). **Ref:** 4680.

**11951 Juncenolide C**

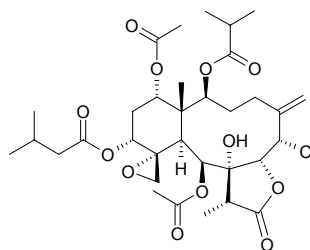
$C_{30}H_{38}O_{15}$ (638.63). Amorphous solid, $[\alpha]_D^{25} = -24.4^\circ$ ($c = 0.05$, CH_2Cl_2). **Pharm:** Cytotoxic (*in vitro*, Hepa59T/VGH, 6.6 μ g/mL, mild activity; KB16, 7.8 μ g/mL, mild activity). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (outer red layer: yield = 0.00013%ww). **Ref:** 4680.

**11952 Juncenolide D**

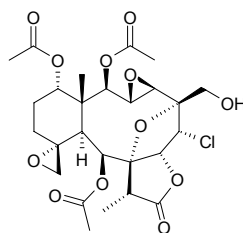
$C_{31}H_{40}O_{15}$ (652.66). Amorphous solid, $[\alpha]_D^{25} = -10.3^\circ$ ($c = 0.2$, CH_2Cl_2). **Pharm:** Cytotoxic inactive (*in vitro*, Hepa59T/VGH, KB16). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (outer red layer: yield = 0.0007%ww). **Ref:** 4680.

**11953 Juncenolide F**

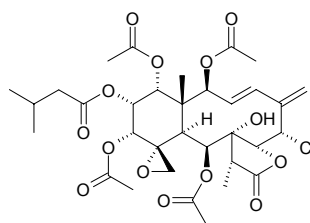
$C_{33}H_{47}ClO_{12}$ (671.19). Colorless crystals, $[\alpha]_D = +9.7^\circ$ ($c = 0.2$, CH_2Cl_2). **Source:** DENG XIN LIU SHAN HU *Junceella juncea*. **Ref:** 2539.

**11954 Juncenolide G**

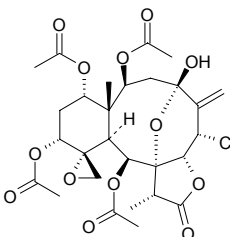
$C_{26}H_{33}ClO_{12}$ (573.00). Colorless crystals, $[\alpha]_D = +6.5^\circ$ ($c = 0.2$, CH_2Cl_2). **Source:** DENG XIN LIU SHAN HU *Junceella juncea*. **Ref:** 2539.

**11955 Juncin O**

$C_{33}H_{43}ClO_{14}$ (699.19). White powder, $[\alpha]_D = +36^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00015%). **Ref:** 4781.

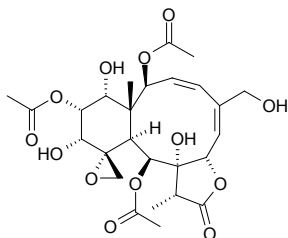
**11956 Juncin P**

$C_{28}H_{35}ClO_{13}$ (615.04). White powder, $[\alpha]_D = -6.8^\circ$ ($c = 0.24$, $CHCl_3$). **Source:** DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00013%). **Ref:** 4781.

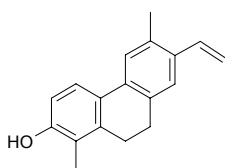


11957 Juncin Q

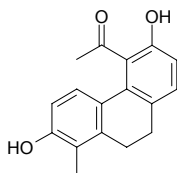
$C_{26}H_{34}O_{13}$ (554.55). White powder, $[\alpha]_D = -14^\circ$ ($c = 0.4$, pyridine). Source: DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00022%). Ref: 4781.

**11958 Juncunol**

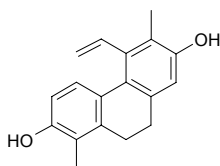
$C_{18}H_{18}O$ (250.34). Source: DENG XIN CAO *Juncus effusus*. Ref: 660.

**11959 Juncunone**

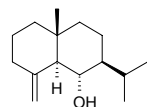
$C_{17}H_{16}O_3$ (268.32). Source: DENG XIN CAO *Juncus effusus*. Ref: 660.

**11960 Juncusol**

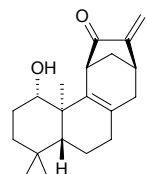
$C_{18}H_{18}O_2$ (266.34). Source: DENG XIN CAO *Juncus effusus*. Ref: 660.

**11961 Junenol**

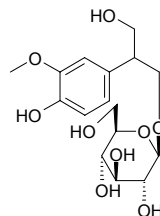
$C_{15}H_{26}O$ (222.37). Crystals, mp 62.5~63.0°C, $[\alpha]_D = +52^\circ$ ($c = 3.35$, $CHCl_3$) Source: OU ZHOU CI BAI *Juniperus communis*. Ref: 1521.

**11962 Jungermannone A**

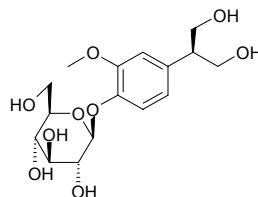
$C_{20}H_{28}O_2$ (300.44). mp 105~106°C, $[\alpha]_D^{20} = -265.5^\circ$ ($c = 1.97$, $CHCl_3$). Pharm: Cytotoxic (hmn leukemia cell line HL-60, $IC_{50} = 0.28 \mu\text{mol/L}$)^[4390]. Source: XIN XI LAN YE TAI *Jungermannia* sp. Ref: 4390.

**11963 Junipediol A 29-O-β-D-glucopyranoside**

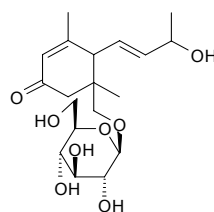
$C_{16}H_{24}O_9$ (360.36). Amorphous powder, $[\alpha]_D^{22} = -18^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**11964 Junipediol A 4-O-β-D-glucopyranoside**

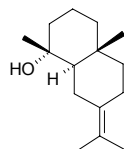
$C_{16}H_{24}O_9$ (360.36). Amorphous powder, $[\alpha]_D^{25} = -34^\circ$ ($c = 0.8$, MeOH). Source: GE LU ZI *Carum carvi*. Ref: 1926.

**11965 Junipeionoside**

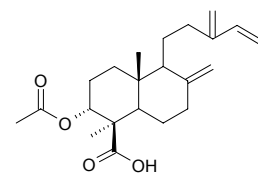
$C_{19}H_{30}O_8$ (386.45). Source: SHAN YANG DOU *Galega officinalis*, FEI NI JI CI BAI *Juniperus phoenicea*. Ref: 1867.

**11966 Juniper camphor**

$C_{15}H_{26}O$ (222.37). White acicular crystals (petroleum ether–ethyl acetate), mp 164~166°C; crystals (methanol), mp 155~156°C. Pharm: Antitussive (dispels phlegm). Source: BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], MI ZI LAN *Aglaia odorata*, OU ZHOU CI BAI *Juniperus communis*, TOU HUA DU JUAN *Rhododendron capitatum*, WAN YAN XIANG MAO *Cymbopogon flexuosus*, XIANG YANG MEI *Myrica gale*, XIAO YE PI PA *Rhododendron anthopogonoides*. Ref: 661.

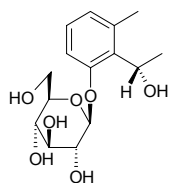
**11967 Juniperexcelsic acid**

3α-Acetoxyabda-8(17),13(16),14-trien-19-oic acid $C_{22}H_{32}O_4$ (360.50). Source: GAO DA CI BAI *Juniperus excelsa*. Ref: 1864.

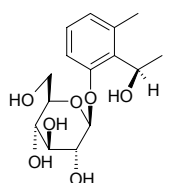


11968 Juniperoside I

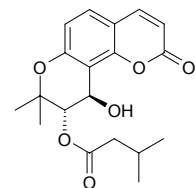
$C_{15}H_{22}O_7$ (314.34). Colorless needles (MeOH), mp 89–91°C, $[\alpha]_D = -26.3^\circ$ ($c = 1.0$, pyridine). **Pharm:** Anti-HIV-1 inactive (*in vitro*). **Source:** XI FANG CI BAI *Juniperus occidentalis* (leaf). **Ref:** 4234.

**11969 Juniperoside II**

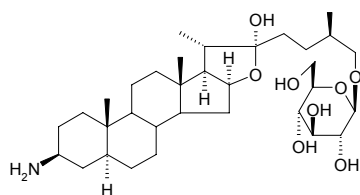
$C_{15}H_{22}O_7$ (314.34). Colorless needles (MeOH), mp 97–99°C, $[\alpha]_D = -8.4^\circ$ ($c = 1.0$, pyridine). **Pharm:** Anti-HIV-1 inactive (*in vitro*). **Source:** XI FANG CI BAI *Juniperus occidentalis* (leaf). **Ref:** 4234.

**11970 Junosmarin**

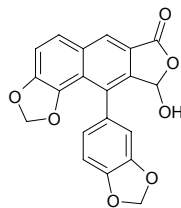
$C_{19}H_{22}O_6$ (346.38). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (42.2±1.4)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 351$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin, $IC_{50} = 341$ mol ratio/32 pmol TPA). **Source:** *Citrus medica* var. *etrog*, LI HUA JU *Citrus tachibana*, *Citrus rugulosa*, *Citrus hassaku*. **Ref:** 5048.

**11971 Jurubine**

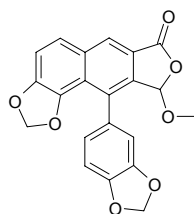
[14256-61-2] $C_{33}H_{57}NO_8$ (595.82). **Source:** SHUI QIE *Solanum torvum*. **Ref:** 6.

**11972 Jsmicranthin**

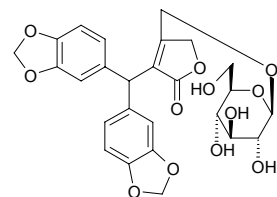
$C_{20}H_{12}O_7$ (364.31). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.00073%dw). **Ref:** 4712.

**11973 Jsmicranthin methyl ether**

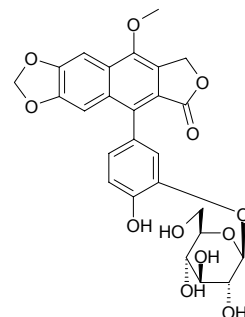
$C_{21}H_{14}O_7$ (378.34). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.017%dw). **Ref:** 4712.

**11974 Juspurpurin**

3-[Bis(3,4-methylenedioxyphenyl)methyl]-4-(β -D-glucopyranosyloxy-methyl)-2(5H)-furanone $C_{26}H_{26}O_{12}$ (530.49). Colorless oil, $[\alpha]_D^{25} = -17.5^\circ$ ($c = 0.75$, acetone). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.00091%dw). **Ref:** 4712.

**11975 Justalakonin**

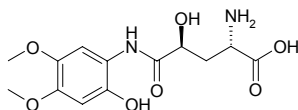
1-(3'- β -D-Glucosyloxy-4'-hydroxyphenyl)-3-hydroxymethyl-4-methoxy-6,7-methylenedioxy-2-naphthoic acid lactone $C_{26}H_{24}O_{12}$ (528.47). Amorphous solid; mp 205–207°C, $[\alpha]_D^{25} = -31.0^\circ$ ($c = 0.25$, MeOH). **Source:** QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0065%dw). **Ref:** 4712.



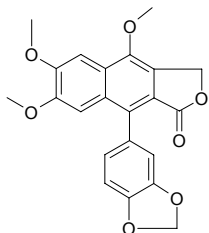
11976 Justiciamide

$C_{13}H_{18}N_2O_7$ (314.30). Non-crystalline solid, $[\alpha]_D = 2.7^\circ$ ($c = 0.07$, H_2O).

Source: *Justicia ghiesbreghtiana*. Ref: 2346.

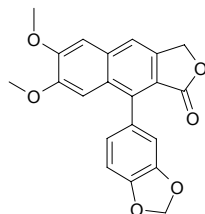
**11977 Justicidin A**

[25001-57-4] $C_{22}H_{18}O_7$ (394.38). mp 263°C. Pharm: Cytotoxic (KB $ED_{50} < 1.0\mu g/mL$, HeLa $ED_{50} = 10\mu g/mL$); cytotoxic (*in vitro*, 212, $ED_{50} = 0.0227\mu g/mL$, control Cisplatin, $ED_{50} = 1.3\mu g/mL$; CaSKi, $ED_{50} = 0.0030\mu g/mL$, control Actinomycin D, $ED_{50} = 0.0019\mu g/mL$; Hep3B, $ED_{50} = 0.029\mu g/mL$, control 5-Fluorouracil, $ED_{50} = 0.0715\mu g/mL$; SiHa, $ED_{50} = 0.0074\mu g/mL$, control Actinomycin D, $ED_{50} = 0.00081\mu g/mL$; HepG2, $ED_{50} = 0.020\mu g/mL$, control 5-Fluorouracil, $ED_{50} = 0.033\mu g/mL$; HT29, not determined, control 5-Fluorouracil, $ED_{50} = 0.074\mu g/mL$; HCT116, not determined, control 5-Fluorouracil, $ED_{50} = 0.48\mu g/mL$; MCF7, $ED_{50} = 0.39\mu g/mL$; MCF7-ras, $ED_{50} = 0.074\mu g/mL$)^[4612]; TNF- α formation enhancer (mouse macrophage-like RAW264.7, stimulated by LPS, strong activity)^[4612]; antimalarial (*Plasmodium falciparum*, $IC_{50} = 1.9\mu g/mL$, $IC_{90} = 4.5\mu g/mL$); fish toxin (action matches rotenone). Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.004%dw)^[4612]; the compound was isolated from the plant by M.Okigawa, et al. in 1972^[5505]. Ref: 6, 1848, 1849, 1850, 4612, 5505.

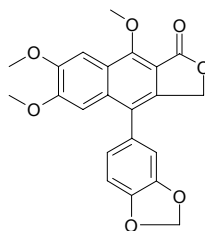
**11978 Justicidin B**

[17951-19-8] $C_{21}H_{16}O_6$ (364.36). mp 240°C. Pharm: Antiviral (vesicular stomatitis virus VSV, $MIC \geq 0.06\mu g/mL$, mus cytomegalovirus, Sindbis virus); cytotoxic (P388 $ED_{50} = 3.3\mu g/mL$, 9KB $ED_{50} = 0.073\mu g/mL$, NSCLC-N6 $IC_{50} = 28\mu g/mL$, RL33 MTC = 31.0 $\mu g/mL$, BST $LC_{50} = 1.1\mu g/mL$); antifungal (*Aspergillus fumigatus*, $MIC \geq 1\mu g/mL$, Miconazole nitrate, $MIC \geq 0.5\mu g/mL$; *Candida albicans*, $MIC \geq 4\mu g/mL$, Miconazole nitrate, $MIC \geq 0.2\mu g/mL$; *Aspergillus flavus*, $MIC \geq 16\mu g/mL$, Miconazole nitrate, $MIC \geq 0.2\mu g/mL$; *Blastoschizomyces capitatus*, $MIC \geq 128\mu g/mL$, Miconazole nitrate, $MIC \geq 1\mu g/mL$; *Cryptococcus neoformans*, $MIC \geq 128\mu g/mL$)^[5393]; antiprotozoal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 0.2\mu g/mL$, control Melarsoprol, $IC_{50} = 0.003\mu g/mL$; *Trypanosoma cruzi*, $IC_{50} = 2.6\mu g/mL$, control Benznidazol, $IC_{50} = 0.27\mu g/mL$; *Plasmodium falciparum* (strain K1), $IC_{50} \geq 5\mu g/mL$, control Chloroquine, $IC_{50} = 0.12\mu g/mL$); cytotoxic (Jurkat-T, $IC_{50} = 3.2\mu g/mL$, control Helenalin, $IC_{50} = 0.03\mu g/mL$; KB, $IC_{50} = 0.2\mu g/mL$, control Helenalin, $IC_{50} = 0.2\mu g/mL$; L-6, $IC_{50} = 3.3\mu g/mL$; PBMC, $IC_{50} = 4.7\mu g/mL$, control Helenalin, $IC_{50} = 0.03\mu g/mL$)^[5393]; piscicide (adult zebra fishes *Brachydanio rerio*, $LC_{100} = 1.5\mu g/mL$, time = 25–40min; positive control Rotenone, $LC_{100} = 1.0\mu g/mL$, time = 20–30min; negative control Catechin, $LC_{100} > 200\mu g/mL$, time > 120min)^[5393]; fish toxin

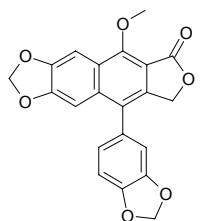
(action matches rotenone). Source: JIAN YE YE XIA ZHU *Phyllanthus acuminatus*, YAN JIAO CAO *Boenninghausenia albiflora*, JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (in 1972, the compound was isolated from the plant by M.Okigawa, et al.)^[5505], QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0036%dw)^[4712], YU FU YE XIA ZHU *Phyllanthus piscatorum*, *Haplophyllum patavinum* (shoot). Ref: 658, 1778, 1793, 1794, 1795, 4206, 4712, 5393, 5505.

**11979 Justicidin C**

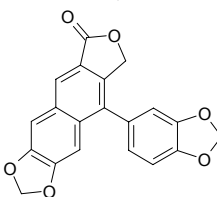
Neojusticin B [17803-12-2] $C_{22}H_{18}O_7$ (394.38). mp 266°C, 262–265°C. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*], BAI HUA JUE CHUANG *Justicia procumbens* var. *leucantha*, DAN JUE CHUANG *Justicia simplex*. Ref: 6, 658.

**11980 Justicidin D**

Neojusticin A [27041-98-1] $C_{21}H_{14}O_7$ (378.34). mp 272°C, 273–275°C. Pharm: Antiviral (vesicular stomatitis virus VSV, $MIC = 16.0\mu g/mL$); cytotoxic (rbt, lung cancer cell RL33, MTC = 63.0 $\mu g/mL$, KB, $ED_{50} = 9.0\mu g/mL$). Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*]. Ref: 6, 1521, 1778, 1779.

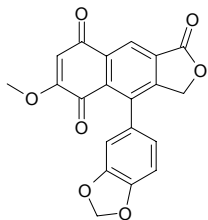
**11981 Justicine E**

Justicidin E $C_{20}H_{12}O_6$ (348.32). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000025%dw). Ref: 4783.

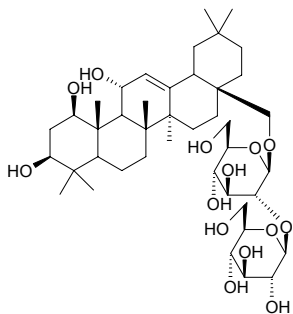


11982 Justicidone

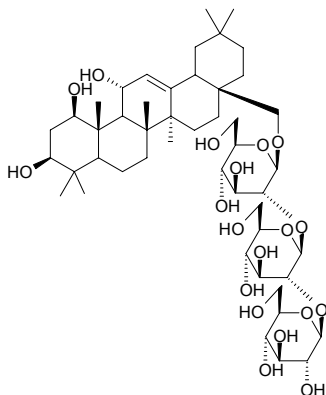
4-(1,3-Benzodioxol-5-yl)-6-methoxynaphtho[2,3-*c*]furan-1,5,8(3*H*)-trione
 $C_{20}H_{12}O_7$ (364.31). Red crystals (EtOAc-*n*-hexane), mp 114~115°C. Source:
Justicia hyssopifolia (aerial parts). Ref: 4259.

**11983 Justicoside A**

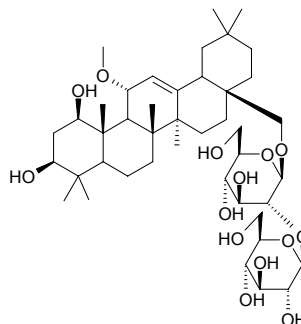
Olean-12-ene-1 β ,3 β ,11 α ,28-tetraol
 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside $C_{42}H_{70}O_{14}$ (799.02).
 Amorphous powder, $[\alpha]_D^{27} = -1.9^\circ$ ($c = 2.65$, MeOH). Source: YAO SHUI SU
 JUE CHUANG *Justicia betonica* (aerial parts). Ref: 3863.

**11984 Justicoside B**

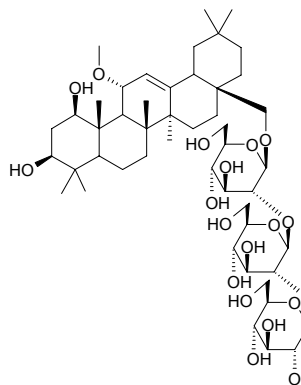
Olean-12-ene-1 β ,3 β ,11 α ,28-tetraol 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-
 glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside $C_{48}H_{80}O_{19}$ (961.16). Amorphous
 powder, $[\alpha]_D^{27} = -4.2^\circ$ ($c = 2.61$, MeOH). Source: YAO SHUI SU JUE
 CHUANG *Justicia betonica* (aerial parts). Ref: 3863.

**11985 Justicoside C**

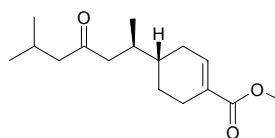
11 α -Methoxy-olean-12-ene-1 β ,3 β ,28-triol 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-
 β -D-glucopyranoside $C_{43}H_{72}O_{14}$ (813.04). Amorphous powder, $[\alpha]_D^{27} = +10.1^\circ$
 ($c = 3.57$, MeOH). Source: YAO SHUI SU JUE CHUANG *Justicia betonica*
 (aerial parts). Ref: 3863.

**11986 Justicoside D**

11 α -Methoxy-olean-12-ene-1 β ,3 β ,28-triol 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-
 β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside $C_{49}H_{82}O_{19}$ (975.19).
 Amorphous powder, $[\alpha]_D^{27} = +46.7^\circ$ ($c = 0.71$, MeOH). Source: YAO SHUI
 SU JUE CHUANG *Justicia betonica* (aerial parts). Ref: 3863.

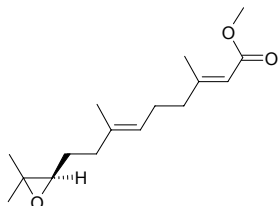
**11987 Juvabione**

[17904-27-7] $C_{16}H_{26}O_3$ (266.38). Crystals (EtOAc), mp 273~275°C, 272°C.
Pharm: Insect juvenile hormone. Source: XIANG ZHI LENG SHAN *Abies*
balsamea. Ref: 658.

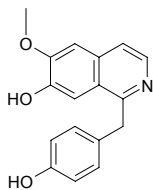


11988 Juvenile hormone III

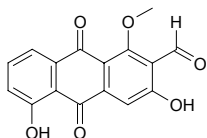
Methyl (2*E*,6*E*,10*R*)-10,11-epoxy-3,7,11-trimethyl-2,6-dodecadien-oate
 [22963-93-5] C₁₆H₂₆O₃ (266.38). Colorless oil, [α]_D = +4.5° (c = 0.7), [α]_D = +6.7° (c = 0.6, MeOH). **Pharm:** Insect juvenile hormone^[658]; antimalarial (*in vitro*, *Plasmodium falciparum* K1 multidrug-resistant strain and chloroquine sensitive NF54 strain, weak activity)^[3944]. **Source:** SUI MI SHA CAO *Cyperus iria*, *Lettowianthus stellatus* (root cortex). **Ref:** 658, 3944.

**11989 Juzirine**

[64069-53-0] C₁₇H₁₅NO₃ (281.31). Crystals (Me₂CO), mp 203–205°C. **Source:** SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 583.

**11990 Juzunal**

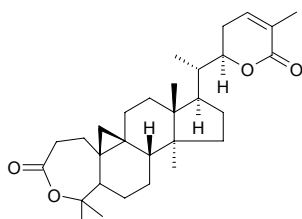
[4430-68-6] C₁₆H₁₀O₆ (298.25). mp 248°C. **Source:** HU CI *Damnacanthus indicus*, *Damnacanthus major*. **Ref:** 6, 1521.



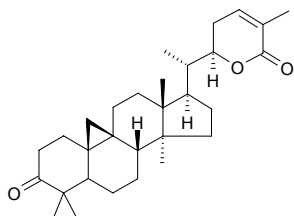
K

11991 Kadsulactone

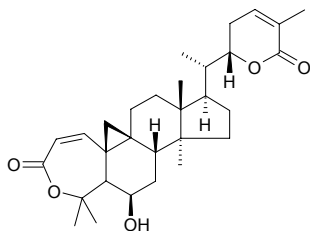
[137348-14-2] C₃₀H₄₄O₄ (468.68). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1539, 2523.

**11992 Kadsulactone**

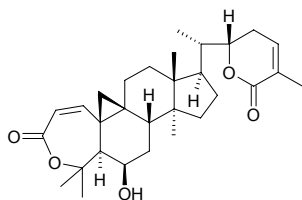
[137348-13-1] C₃₀H₄₄O₃ (452.68). Crystals (EtOAc), mp 230~232°C, [α]_D¹⁸ = +57.7° (c = 0.09, CHCl₃). Pharm: Antineoplastic^[2523]; anti-HIV^[2523]. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 1521, 2436, 2523.

**11993 Kadsulactone A**

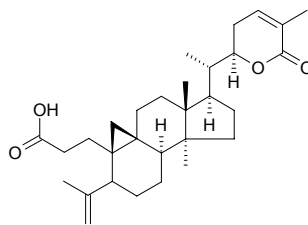
C₃₀H₄₂O₅ (482.67). Crystals (MeOH), mp 195~197°C, [α]_D²³ = +70.65° (c = 0.552, MeOH). Pharm: Antineoplastic^[2523]; anti-HIV^[2523]. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. Ref: 1521, 2436, 2523.

**11994 Kadsulactone A'**

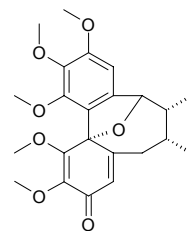
C₃₀H₄₂O₅ (482.67). Source: YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. Ref: 660.

**11995 Kadsulactone acid**

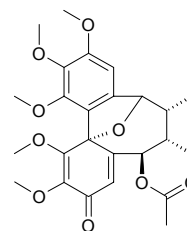
C₃₀H₄₄O₄ (468.68). Colorless massive crystals, mp 180~182°C. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 389.

**11996 Kadsulignan A**

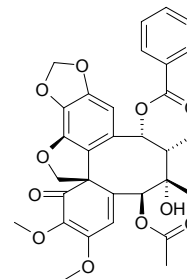
[122350-74-7] C₂₃H₂₈O₇ (416.48). Source: LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 660, 2436.

**11997 Kadsulignan B**

[122350-75-8] C₂₅H₃₀O₉ (474.51). Source: LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 660, 2436.

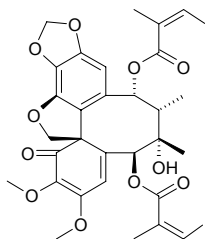
**11998 Kadsulignan C**

[137637-49-1] C₃₁H₃₀O₁₁ (578.58). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2436.

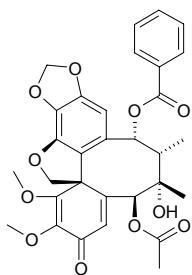


11999 Kadsulignan D

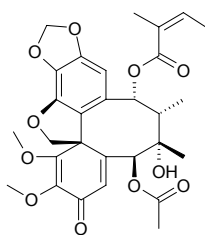
[137637-50-4] $C_{32}H_{36}O_{11}$ (596.64). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2436.

**12000 Kadsulignan E**

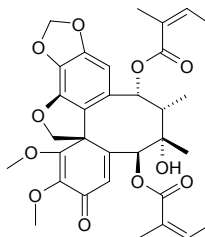
$C_{31}H_{30}O_{11}$ (578.58). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2436.

**12001 Kadsulignan F**

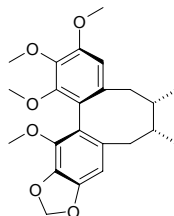
$C_{29}H_{32}O_{11}$ (556.57). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2436.

**12002 Kadsulignan G**

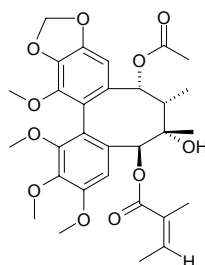
$C_{32}H_{36}O_{11}$ (596.64). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2436.

**12003 Kadsuranin**

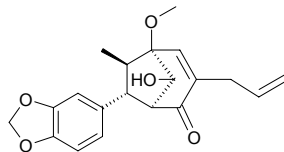
Rubschisandrin $C_{23}H_{28}O_6$ (400.48). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], HONG HUA WU WEI ZI *Schisandra rubriflora* (fruit), LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], RI BEN NAN WU WEI ZI *Kadsura japonica*. Ref: 660, 2436.

**12004 Kadsurarin**

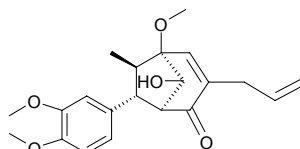
$C_{30}H_{36}O_{11}$ (572.61). Pharm: Antihepatitis inactive (anti-HBsAg, 100µg/mL, InRt < 25%, inactive; anti-HBeAg, 100µg/mL, InRt < 25%, inactive). Source: *Kadsura matsudai* (stem). Ref: 4397.

**12005 Kadsurenin B**

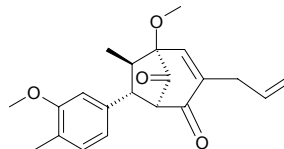
[145701-13-9] $C_{20}H_{22}O_5$ (342.39). Colorless oil, $[\alpha]_D^{18} = -29.5^\circ$ ($c = 0.112$, chloroform). Pharm: PAF receptor antagonist ($IC_{50} = 4.4\mu\text{mol/L}$). Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 930.

**12006 Kadsurenin C**

[145722-88-9] $C_{21}H_{26}O_5$ (358.43). Colorless oil, $[\alpha]_D^{18} = -24.0^\circ$ ($c = 0.067$, chloroform). Pharm: PAF receptor antagonist. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 930.

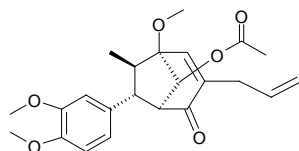
**12007 Kadsurenin K**

[149560-83-8] $C_{20}H_{22}O_5$ (342.39). Colorless oil, $[\alpha]_D^{18} = -54.6^\circ$ ($c = 0.048$, chloroform). Pharm: PAF receptor antagonist. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 930.

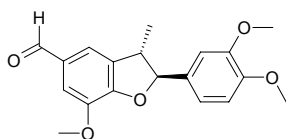


12008 Kadsurenin L

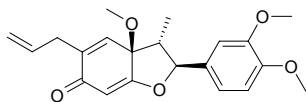
[149438-61-9] C₂₃H₂₈O₆ (400.47). Colorless rhombic crystals (acetone), [α]_D¹⁸ = -36.9° (*c* = 0.086, chloroform). **Pharm:** PAF receptor antagonist. **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. **Ref:** 930.

**12009 Kadsurenin M**

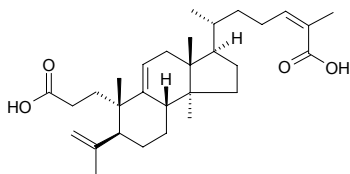
[150133-00-9] C₁₉H₂₀O₅ (328.37). Colorless oleaginous substance, [α]_D¹⁵ = -24.6° (CHCl₃). **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. **Ref:** 267.

**12010 Kadsurenone**

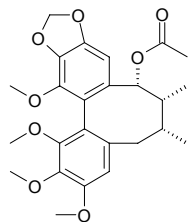
[95851-37-9] C₂₁H₂₄O₅ (356.42). **Pharm:** Inhibits PAF. **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. **Ref:** 658.

**12011 Kadsuric acid**

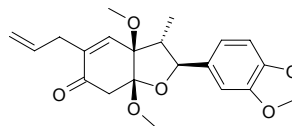
C₃₀H₄₆O₄ (470.70). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], XIAO HUA WU WEI ZI *Schisandra micrantha* (leaf and stem), YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660, 2523, 4389.

**12012 Kadsurin**

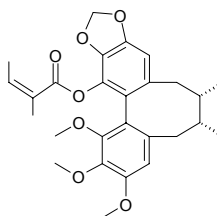
[51670-40-7] C₂₅H₃₀O₈ (458.51). White acicular crystals (ethanol), mp 157-158°C, [α]_D²⁵ = -39° (*c* = 0.13, chloroform). **Pharm:** Antineoplastic (potential antitumor promoter, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (15.0±0.7)% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 60%)^[4644]; synergist of pesticides. **Source:** NEI NAN WU WEI ZI *Kadsura interior* (stem)^[4644], RI BEN NAN WU WEI ZI *Kadsura japonica* (in 1973, the compound was isolated from the plant by Y.P.Chen et al.)^[5505]. **Ref:** 658, 2436, 4644, 5055.

**12013 Kadsurin A**

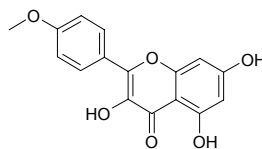
C₂₁H₂₄O₆ (372.42). **Pharm:** Inhibits PAF. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. **Ref:** 658.

**12014 Kadsutherin**

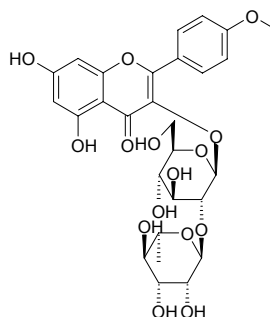
[99481-39-7] C₂₇H₃₂O₇ (468.55). **Source:** LENG FAN TUAN *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 660, 2436.

**12015 Kaempferide**

Kaempferol-4'-methylether [491-54-3] C₁₆H₁₂O₆ (300.27). mp 227-229°C. **Pharm:** Anti-inflammatory (induced by 12-*O*-tetradecanoyl phorbol-13-acetate); antiemetic (young male chicks, copper sulfate induced emesis assay, 20mg/kg, InRt = 63.3%, *p* < 0.001)^[4649]. **Source:** CHENG LIU *Tamarix chinensis*, DA ER MA WEI YA LIU CHUAN YU *Linaria dalmatica*, GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.076%dw)^[4649], JI CAI *Capsella bursa-pastoris*, SHAN NAI *Kaempferia galanga*, SHI ZHI JIA *Sedum sarmentosum* (whole herb: mean content of 10 origins = 0.026%)^[5532], ZANG HONG HUA *Crocus sativus* (pollen). **Ref:** 6, 660, 658, 4233, 4649, 5532.

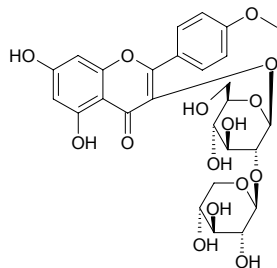
**12016 Kaempferide-3-*O*-neohesperidoside**

3-[[2-*O*-(6-Deoxy- α -*L*-man-nopyranosyl)- β -*D*-glucopyranosyl]oxy]-5,7-dihydroxy-2-(4-methoxyphenyl)-4*H*-1-benzopyran-4-one C₂₈H₃₂O₁₅ (608.56). Yellow amorphous powder (MeOH), mp 170-180°C (dec), [α]_D²⁰ = -85° (*c* = 0.001, DMSO). **Pharm:** Nitric oxide production inhibitor inactive (IC₅₀ > 100µg/mL). **Source:** SUI ZHUANG BI QIAO JIANG *Costus spicatus* (leaf) **Ref:** 3898.

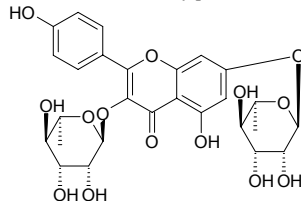


12017 Kaempferide-3-O- β -xylosyl (1 \rightarrow 2)- β -glucoside

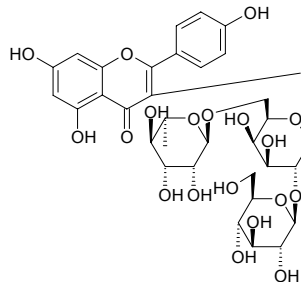
C₂₇H₃₀O₁₅ (594.53). Amorphous yellow powder. Source: *Warburgia ugandensis* (leaf). Ref: 3470.

**12018 Kaempferitrin**

Kaempferol 3,7-di-O- α -rhamnopyranoside [482-38-2] C₂₇H₃₀O₁₄ (578.53). mp 201~203°C. Pharm: Anti-inflammatory (induced by woolball-embedding, reduces blood capillary permeability); similar action with vitamin P; treatment of renal insufficiency; antioxidant (DPPH scavenger, IC₅₀ = (35.7 \pm 0.3) μ mol/L, control Trolox, IC₅₀ = (25.4 \pm 0.8) μ mol/L)^[4244]; antioxidant (DPPH free radical scavenger, 10 μ mol/L, ScRt = 11%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC > 128 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]. Source: BAI DUAN *Tilia alburnum*, CHAI HU *Bupleurum chinense*, DA JIN QIAN CAO *Lysimachia christinae*, DUAN GENG HU ZHI ZI *Lespedeza cyrtobotrya*, MIAN TENG *Celastrus hypoleucus*, NI BO ER LAO GUAN CAO *Geranium nepalense*, SHAN MA HUANG *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), WAN SHOU JU 叶 *Tagetes erecta*, WANG GUA *Trichosanthes cucumeroides*, YIN YANG HUO *Epimedium brevicornum*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*], ZHI LI DIAN LAN *Indigofera arrecta*, occurs in many plants. Ref: 4, 6, 623, 658, 660, 1521, 4244, 5319, 5501.

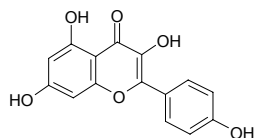
**12019 Kaempferol 3-O- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnonopyranosyl-(1 \rightarrow 6)]- β -D-galactopyranoside**

C₃₃H₄₀O₂₀ (756.67). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ = 38 μ mol/L, positive control Adriamycin, IC₅₀ = 27 μ mol/L; DDDP inhibitor, IC₅₀ > 100 μ mol/L, Adriamycin, IC₅₀ = 6 μ mol/L; HIV-1 IN inhibitor, IC₅₀ = 43 μ mol/L, Suramin, IC₅₀ = 2.4 μ mol/L). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). Ref: 4187.

**12020 Kaempferol**

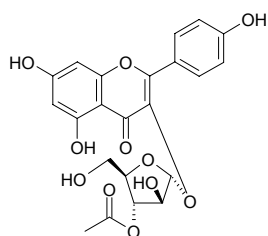
3,5,7,4'-Tetrahydroxyflavone [520-18-3] C₁₅H₁₀O₆ (286.24). Yellow acicular crystals (methanol), mp 274~278°C. Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ = 110 μ mol/L, positive control Adriamycin, IC₅₀ = 46 μ mol/L; DDDP inhibitor, IC₅₀ = 75 μ mol/L, Adriamycin, IC₅₀ = 6 μ mol/L; RnaseH inhibitor, IC₅₀ > 500 μ mol/L, Illimaquinone, IC₅₀ = 50 μ mol/L; HIV-1 IN inhibitor, IC₅₀ = 40 μ mol/L, Suramin, IC₅₀ = 2.4 μ mol/L)^[3522, 4187]; antibacterial; anti-inflammatory (rat, woolball-embedded model); antitussive to cure trachitis; Δ^5 -lipoxygenase inhibitor; iodinate thyronine deiodinase inhibitor; aldose reductase inhibitor (eye lens, may cure cataract due to diabetes mellitus); antioxidant (*in vitro*, DPPH scavenger, 0.1mg/mL, ScRt = 89.9%)^[3015]; anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean IC₅₀ = 30.0 μ mol/L)^[4416]; DPPH scavenger (SC₅₀ = 10 μ mol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 11 μ mol/L)^[4247]. Source: BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content collected in Apr., May and Sep. = 0.179%)^[5508], BAI RUI CAO *Thesium chinense*, CU LIU GUO *Hippophae rhamnoides*, DA JIN QIAN CAO *Lysimachia christinae*, DA TU SI ZI *Cuscuta japonica* (ripe fruit: mean content = 0.0015%)^[5508], DU ZHONG *Eucommia ulmoides*, FAN XIE YE *Cassia angustifolia*, FEN CHA DANG GUI *Angelica furcijuga* (flower), FENG JIAO *Apis mellifera ligustica* (bee glue: mean content of 5 beach samples = 0.67%)^[5508], HONG HUA *Carthamus tinctorius* (flower: mean content of 4 origins = 0.35%)^[5508], HUANG HAI TANG *Hypericum ascyron*, HUANG HUA HAO *Artemisia annua*, HUANG QI *Astragalus membranaceus* (dried root: content scope of 5 origins = 0.0008%~0.0034%, mean content = 0.0018%)^[5519], JI YAN CAO *Kummerowia striata*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0064%dw^[3014]; yield = 0.0017%dw)^[4723], JIAN YE FAN XIE YE *Cassia acutifolia*, LAN YU BAI JI *Bletilla formosana* (whole herb), LIANG SHAN DU JUAN *Rhododendron huianum* (leaf: content = 0.006%)^[5508], LUO BU MA *Apocynum venetum* (dried leaf: content scope of 6 origins = 0.0%~0.0098%, mean content = 0.0033%)^[5529], MA HUANG *Ephedra sinica*, MAN SHAN HONG *Rhododendron dauricum* (leaf: mean content of 8 origins = 0.030%)^[5527], MAO YAN CAO *Euphorbia lunulata*, MENG GU HUANG QI *Astragalus mongholicus* (dried root: mean content of 3 origins = 0.44%)^[5508], MU ZEI *Equisetum hiemale* (aerial parts: mean content of 5 origins = 0.69%)^[5508], NAN FANG TU SI ZI *Cuscuta australis* (ripe fruit: mean content = 0.0148%)^[5508], PI JIU HUA TU SI ZI *Cuscuta lupuliformis* (ripe fruit: mean content = 0.0005%)^[5508], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN LENG *Sparganium stoloniferum*, SHAN HE YE *Diphylleia grayi*, SHAN NAI *Kaempferia galanga*, SHAN YE WAN DOU *Vicia amoena*, SHE PU TAO *Ampelopsis brevipedunculata*, SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI WEI *Pyrosia lingua*, SHU LI *Rhamnus davurica*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00014%dw)^[4722], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), TU SI ZI *Cuscuta chinensis* (ripe seed: content = 0.198%)^[5501], WEI LING CAI *Potentilla chinensis*, WO ER QI *Diphylleia sinensis*, XI GENG XIANG CAO *Lysimachia capillipes* (dried whole herb: mean content of 3 origins = 0.054%)^[5508], XIA YE XIANG PU *Typha angustifolia*, XUAN FU HUA *Inula britannica*, YE XIA ZHU *Phyllanthus urinaria*, YI ZHU QIAN MA *Urtica dioica*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), ZANG HONG HUA *Crocus sativus* (petal: yield =

0.00036%), ZHAI YE BAN FENG HE *Pterospermum lanceaefolium*, ZHAO SHAN BAI *Rhododendron micranthum* (leaf: content scope from Feb. to Nov. 0.01%–0.12%, mean content = 0.05%)^[5508], ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, occurs in many plants (family Brassicaceae spp., family Apocynaceae spp., family Dilleniaceae spp., family Ranunculaceae spp., family Fabaceae spp.). Ref: 2, 4, 279, 283, 397, 463, 468, 552, 573, 658, 660, 1521, 3014, 3015, 3522, 4187, 4205, 4247, 4416, 4454, 4483, 4500, 4722, 4723, 5501, 5508, 5519, 5527, 5529.



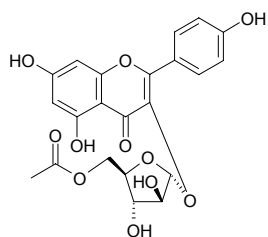
12021 Kaempferol-3-O- α -L-3''-acetyl-arabinofuranoside

$C_{22}H_{20}O_{11}$ (460.40). Dark yellow powder, $[\alpha]_D^{20} = -231.6^\circ$ ($c = 0.01$, MeOH). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts: yield = 0.00017%dw). Ref: 1179.



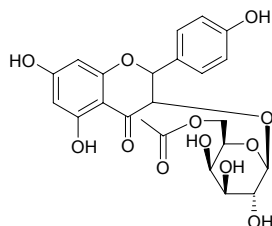
12022 Kaempferol-3-O- α -L-5''-acetyl-arabinofuranoside

$C_{22}H_{20}O_{11}$ (460.40). Dark yellow powder, $[\alpha]_D^{20} = -91.3^\circ$ ($c = 0.03$, MeOH). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts: yield = 0.0002%dw). Ref: 1179.



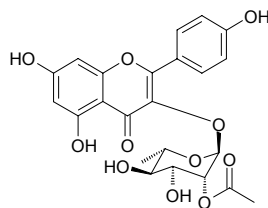
12023 Kaempferol 3-O-(6''-acetyl)- β -D-galactopyranoside

$C_{23}H_{24}O_{12}$ (492.44). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.



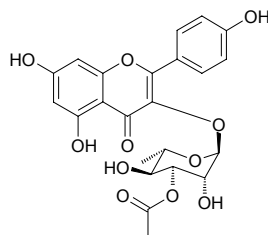
12024 Kaempferol-3-O-(2-O-acetyl- α -L-rhamnopyranoside)

$C_{23}H_{22}O_{11}$ (474.43). Pharm: CYP3A4 inhibitor ($IC_{50} = 59.0\mu\text{mol/L}$, control Ketoconazole, $IC_{50} = 0.245\mu\text{mol/L}$); CYP2D6 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Quinidine, $IC_{50} = 0.078\mu\text{mol/L}$). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00044%dw). Ref: 4669.



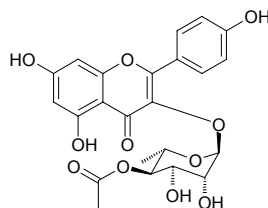
12025 Kaempferol-3-O-(3-O-acetyl- α -L-rhamnopyranoside)

$C_{23}H_{22}O_{11}$ (474.43). Pharm: CYP3A4 inhibitor ($IC_{50} = 98.3\mu\text{mol/L}$, control Ketoconazole, $IC_{50} = 0.245\mu\text{mol/L}$); CYP2D6 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Quinidine, $IC_{50} = 0.078\mu\text{mol/L}$). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00044%dw). Ref: 4669.



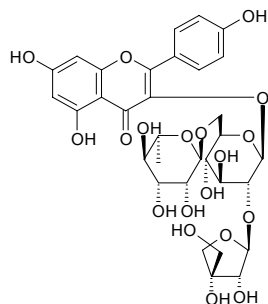
12026 Kaempferol-3-O-(4-O-acetyl- α -L-rhamnopyranoside)

$C_{23}H_{22}O_{11}$ (474.43). Pharm: CYP3A4 inhibitor ($IC_{50} = 90.0\mu\text{mol/L}$, control Ketoconazole, $IC_{50} = 0.245\mu\text{mol/L}$); CYP2D6 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Quinidine, $IC_{50} = 0.078\mu\text{mol/L}$). Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00036%dw). Ref: 4669.

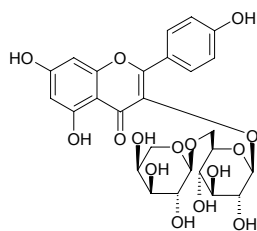


12027 Kaempferol 3-O- β -D-apiosyl-(1 \rightarrow 2)-[α -L-rhamnosyl(1 \rightarrow 6)]- β -D-glucoside

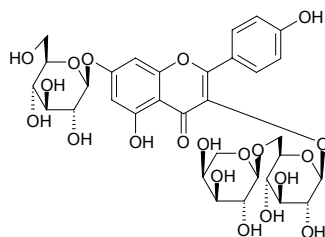
$C_{32}H_{38}O_{19}$ (726.65). Yellowish powder mp 174–175°C, $[\alpha]_D^{25} = -37^\circ$ ($c = 0.0015$, H₂O). Source: MIAN HUA *Gossypium herbaceum*. Ref: 2130.



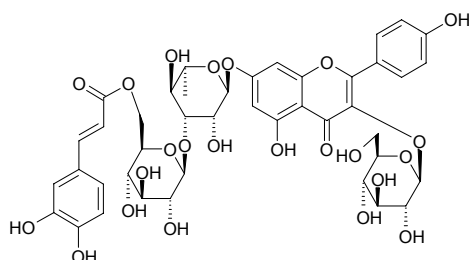
12028 Kaempferol 3-*O*- α -arabinopyranosyl(1'''' \rightarrow 6'')- β -glucopyranoside
 $C_{26}H_{28}O_{15}$ (580.50). Yellow solid (MeOH). Source: KU DI DING *Corydalis bungeana* (whole herb). Ref: 3880.



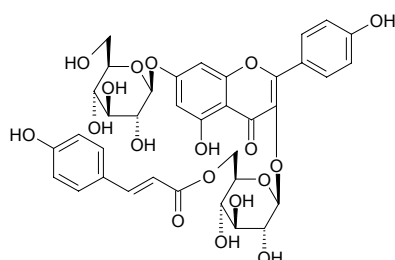
12029 Kaempferol 3-*O*- α -arabinopyranosyl(1'''' \rightarrow 6'')- β -glucopyranoside 7-*O*- β -glucopyranoside
 $C_{32}H_{38}O_{20}$ (742.65). Yellow solid (MeOH). Source: KU DI DING *Corydalis bungeana* (whole herb). Ref: 3880.



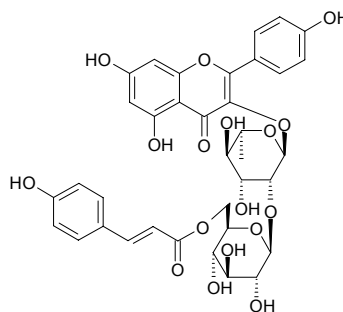
12030 Kaempferol 7-*O*-(6-*trans*-caffeoyl)- β -glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranoside-3-*O*- β -glucopyranoside
 $C_{42}H_{46}O_{23}$ (918.82). Amorphous yellow powder, mp 180~182°C, $[\alpha]_D^{25} = -84.7^\circ$ ($c = 0.1$, MeOH). Source: *Aconitum napellus* ssp. *neomontanum* (flower). Ref: 5148.



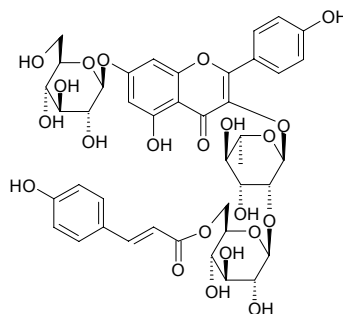
12031 Kaempferol 3-*O*- β -(6''-*E*-*p*-coumaroyl)glucopyranoside)-7-*O*- β -glucopyranoside
 $C_{36}H_{36}O_{18}$ (756.68). Yellow amorphous powder. Source: DUO YE BAI MAI GEN *Lotus polyphyllus*. Ref: 1973.



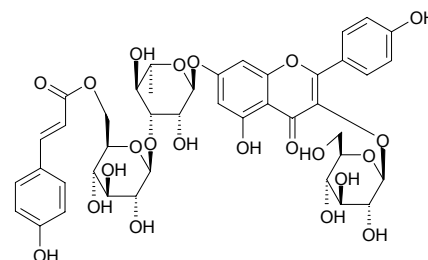
12032 Kaempferol 3-*O*- α -L-[6'''-*p*-coumaroyl-(β -D)-glucopyranosyl-(1,2)-rhamnopyranoside]
 $C_{36}H_{36}O_{17}$ (740.68). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 18.1\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.6\mu\text{g/mL}$; Cytochrome-C reduction, $IC_{50} = 17.7\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.0\mu\text{g/mL}$). Source: BAI GUO YE *Ginkgo biloba*. Ref: 5239.



12033 Kaempferol 3-*O*- α -L-[6'''-*p*-coumaroyl-(β -D)-glucopyranosyl-(1,2)-rhamnopyranoside]-7-*O*- β -D-glucopyranoside
 $C_{42}H_{46}O_{22}$ (902.82). Yellow amorphous powder. Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 18.4\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.6\mu\text{g/mL}$; Cytochrome-C reduction, $IC_{50} = 17.9\mu\text{g/mL}$, control Gallic acid, $IC_{50} = 3.0\mu\text{g/mL}$). Source: BAI GUO YE *Ginkgo biloba*. Ref: 5239.

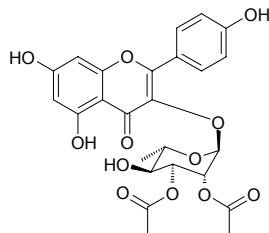


12034 Kaempferol 7-*O*-(6-*trans*-*p*-coumaroyl)- β -glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranoside-3-*O*- β -glucopyranoside
 $C_{42}H_{46}O_{22}$ (902.82). Amorphous yellow powder, mp 175~177°C, $[\alpha]_D^{25} = -52.0^\circ$ ($c = 0.1$, MeOH). Source: *Aconitum napellus* ssp. *neomontanum* (flower). Ref: 5148.

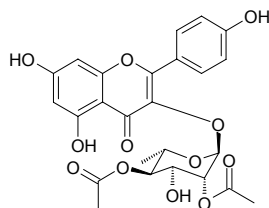


12035 Kaempferol-3-O-(2,3-di-O-acetyl- α -L-rhamnopyranoside)

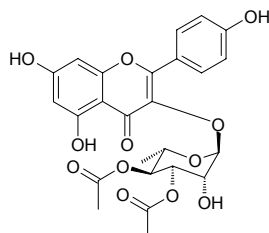
$C_{25}H_{24}O_{12}$ (516.46). **Pharm:** CYP3A4 inhibitor (IC_{50} = 55.8 μ mol/L, control Ketoconazole, IC_{50} = 0.245 μ mol/L); CYP2D6 inhibitor inactive (IC_{50} > 100 μ mol/L, control Quinidine, IC_{50} = 0.078 μ mol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00059%dw). **Ref:** 4669.

**12036 Kaempferol-3-O-(2,4-di-O-acetyl- α -L-rhamnopyranoside)**

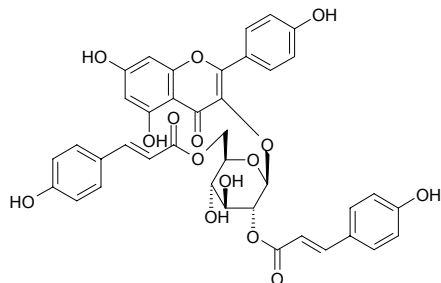
$C_{25}H_{24}O_{12}$ (516.46). **Pharm:** CYP3A4 inhibitor (IC_{50} = 31.6 μ mol/L, control Ketoconazole, IC_{50} = 0.245 μ mol/L); CYP2D6 inhibitor inactive (IC_{50} > 100 μ mol/L, control Quinidine, IC_{50} = 0.078 μ mol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00031%dw). **Ref:** 4669.

**12037 Kaempferol-3-O-(3,4-di-O-acetyl- α -L-rhamnopyranoside)**

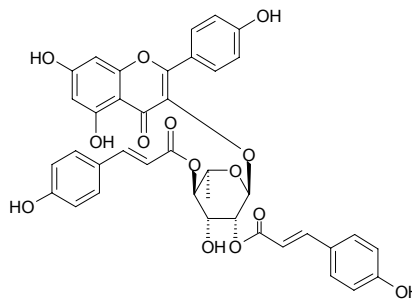
$C_{25}H_{24}O_{12}$ (516.46). **Pharm:** CYP3A4 inhibitor (IC_{50} = 20.6 μ mol/L, control Ketoconazole, IC_{50} = 0.245 μ mol/L); CYP2D6 inhibitor (IC_{50} = 50.5 μ mol/L, control Quinidine, IC_{50} = 0.078 μ mol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00029%dw). **Ref:** 4669.

**12038 Kaempferol-3-O-(2'',6''-di-O-(E)-p-coumaroyl- β -D-glucopyranoside)**

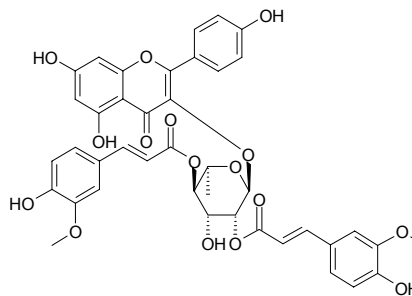
$C_{39}H_{32}O_{15}$ (740.68). **Source:** HU YE *Quercus dentata* **Ref:** 660.

**12039 Kaempferol 3-O- α -L-(2',4'-di-Z-p-coumaroyl)-rhamnoside**

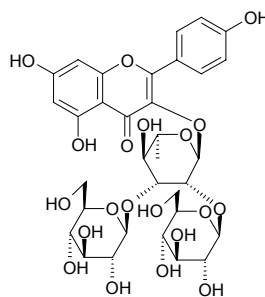
$C_{39}H_{32}O_{14}$ (724.68). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 4255.

**12040 Kaempferol 3-O- α -L-(2'',4''-di-E-feruloyl)-rhamnoside**

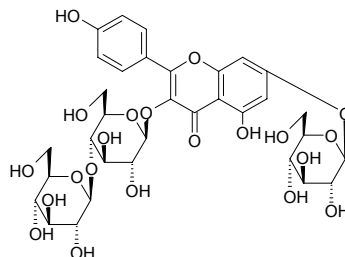
$C_{41}H_{37}O_{16}$ (784.73). Pale yellow amorphous powder, $[\alpha]_D^{23}$ = -19.4° (c = 0.16, MeOH). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 4255.

**12041 Kaempferol 3-O- α -(2,3-di-O- β -D-glucopyranosyl)rhamnopyranoside**

$C_{33}H_{40}O_{20}$ (756.67). **Source:** MEI LI FAN HONG HUA *Crocus speciosus*, *Crocus antalyensis*. **Ref:** 2341.

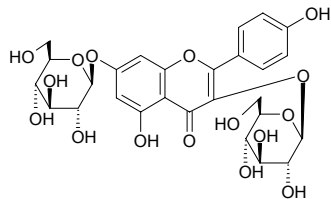
**12042 Kaempferol-3-diglucose-7-glucoside**

Kaempferol-3-glucose-7-diglucoside $C_{33}H_{40}O_{21}$ (772.67). **Source:** MU ZEI *Equisetum hiemale*. **Ref:** 2.

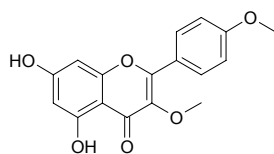


12043 Kaempferol-3,7-diglucoside

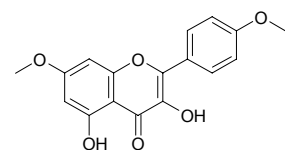
$C_{27}H_{30}O_{16}$ (610.53). mp 233°C. Source: CAO WEN JING *Equisetum pratense*, GU JIE CAO *Equisetum palustre*, LIN WEN JING *Equisetum sylvaticum*, MU ZEI *Equisetum hiemale* (aerial parts: mean content of 3 origins = 0.016%^[5508]), WEN JING *Equisetum arvense*. Ref: 2, 660, 5508.

**12044 Kaempferol-3,4-di-O-methyl ether**

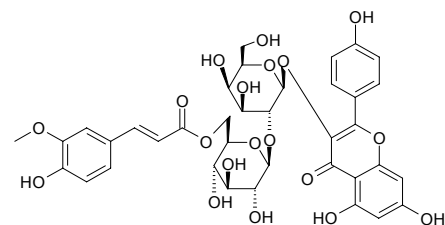
Eemanin $C_{17}H_{14}O_6$ (314.30). Pharm: CYP3A4 inhibitor (IC_{50} = 21.8 μ mol/L, control Ketoconazole, IC_{50} = 0.245 μ mol/L)^[4669]; CYP2D6 inhibitor (IC_{50} = 45.5 μ mol/L, control Quinidine, IC_{50} = 0.078 μ mol/L)^[4669]; NO production inhibitor (LPS-induced, concentration-dependent manner, IC_{50} = 8.9 μ mol/L or 6.6 μ mol/L)^[4918]; PGE₂ production inhibitor (LPS-induced, concentration-dependent manner, IC_{50} = 9.6 μ mol/L or 5.1 μ mol/L)^[4918]. Source: FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00012%dw), XIAO YE JU HAO *Tanacetum microphyllum* (aerial parts). Ref: 4669, 4918.

**12045 Kaempferol-7,4'-dimethyl ether**

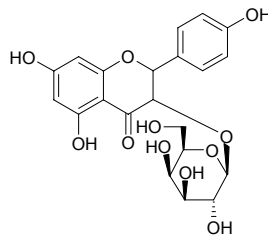
$C_{17}H_{14}O_6$ (314.30). Source: CHENG LIU *Tamarix chinensis*, YUE HUA *Betula ermanii*. Ref: 660.

**12046 Kaempferol 3-O-[(6-O-feruloyl)-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside]**

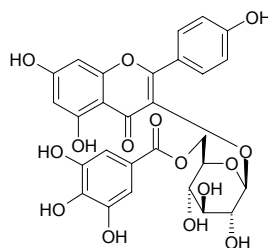
$C_{37}H_{38}O_{19}$ (786.70). Dark yellow amorphous powder, mp 210–212°C, $[\alpha]_D^{25}$ = -0.026° (c = 0.1, MeOH). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, IC_{50} = 52 μ mol/L, positive control Adriamycin, IC_{50} = 27 μ mol/L; DDDP inhibitor, IC_{50} > 100 μ mol/L, positive control Adriamycin, IC_{50} = 6 μ mol/L; HIV-1 IN inhibitor, IC_{50} = 31 μ mol/L, positive control Suramin, IC_{50} = 2.4 μ mol/L)^[4187]; Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, 0.1 μ mol/L, cell viability = (25.2±3.2)%, p < 0.05, 1.0 μ mol/L, cell viability = (66.9±5.8)%, p < 0.001, 10 μ mol/L, cell viability = (25.2±3.6)%, p < 0.05)^[3027]. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf), BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00076%). Ref: 3027, 4187.

**12047 Kaempferol 3-O-β-D-galactopyranoside**

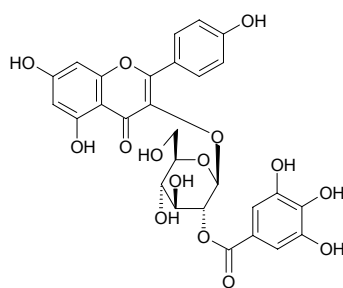
$C_{21}H_{22}O_{11}$ (450.40). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.

**12048 Kaempferol 3-O-(6''-galloyl)-β-D-glucopyranoside**

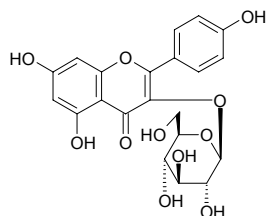
$C_{28}H_{24}O_{15}$ (600.49). $[\alpha]_D^{25}$ = -36.3° (c = 0.1, MeOH). Pharm: Antifungal (*Candida albicans* ATCC2091, MIC > 200 μ g/mL, control Amphotericin B, MIC = 1 μ g/mL; *Candida albicans* 32, MIC > 200 μ g/mL, Amphotericin B, MIC = 4 μ g/mL; *Candida albicans* 19, MIC = 200 μ g/mL, Amphotericin B, MIC = 2 μ g/mL); cytotoxic inactive (MIC > 200 μ g/mL); antibacterial inactive. Source: *Baseonema acuminatum* (leaf). Ref: 5021.

**12049 Kaempferol-3-O-(2''-O-galloyl)-β-D-glucoside**

$C_{28}H_{24}O_{15}$ (600.49). Source: DI JIN CAO *Euphorbia humifusa*, JIE LIAO *Polygonum nodosum*, YU LIAO *Polygonum lapathifolium*. Ref: 660.

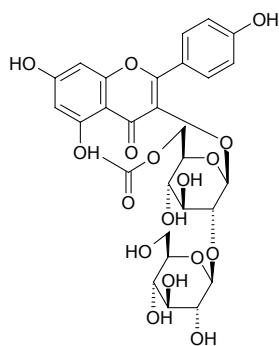
**12050 Kaempferol 3-O-β-D-glucopyranoside**

Astragalol [480-10-4] $C_{21}H_{20}O_{11}$ (448.39). Yellow needles, mp 178, $[\alpha]_D^{18}$ = +16.9° (c = 0.62, MeOH). Source: Astragalus sp. Ref: 1521.



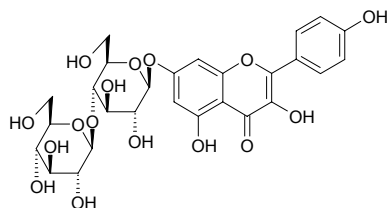
12051 Kaempferol-3-O-β-D-glucopyranosyl(1→2)-β-D-6-acetylglucopyranoside

C₂₉H₃₂O₁₇ (652.57). Source: ZANG HONG HUA *Crocus sativus*. Ref: 660.



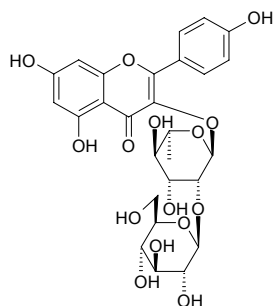
12052 Kaempferol 7-O-β-D-glucopyranosyl-(1→4)-β-D-glucopyranoside

C₂₇H₃₀O₁₆ (610.53). Yellow powder, $[\alpha]_D^{28} = -49.0^\circ$ ($c = 0.5$, MeOH). Pharm: DPPH scavenger (SC₅₀ = 13 μmol/L)^[4247], antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 24 μmol/L)^[4247]. Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.0001%). Ref: 4247, 4912.



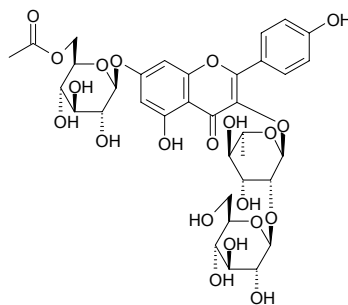
12053 Kaempferol 3-O-β-D-glucopyranosyl-(1-2)-α-L-rhamnopyranoside

C₂₇H₃₀O₁₅ (594.53). Pharm: Antioxidant (DPPH scavenger, IC₅₀ > 100 μg/mL, control Gallic acid, IC₅₀ = 3.6 μg/mL; Cytochrome-C reduction, IC₅₀ > 50 μg/mL, control Gallic acid, IC₅₀ = 3.0 μg/mL). Source: BAI GUO YE *Ginkgo biloba*. Ref: 5239.



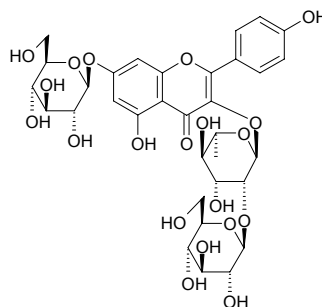
12054 Kaempferol 3-O-α-L-(2-O-β-D-glucopyranosyl)rhamnopyranoside-7-O-β-D-(6-O-acetyl)glucopyranoside

C₃₅H₄₂O₂₁ (798.71). Source: SHUANG HUA FAN HONG HUA *Crocus chrysanthus-biflorus*. Ref: 2343.



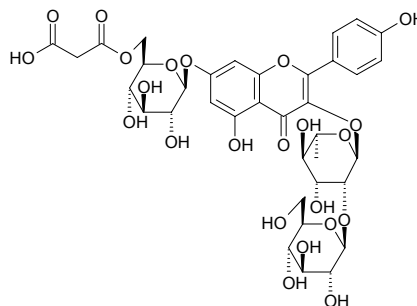
12055 Kaempferol 3-O-α-L-(2-O-β-D-glucopyranosyl)rhamnopyranoside-7-O-β-D-glucopyranoside

C₃₃H₄₀O₂₀ (756.67). Source: SHUANG HUA FAN HONG HUA *Crocus chrysanthus-biflorus*. Ref: 2343.



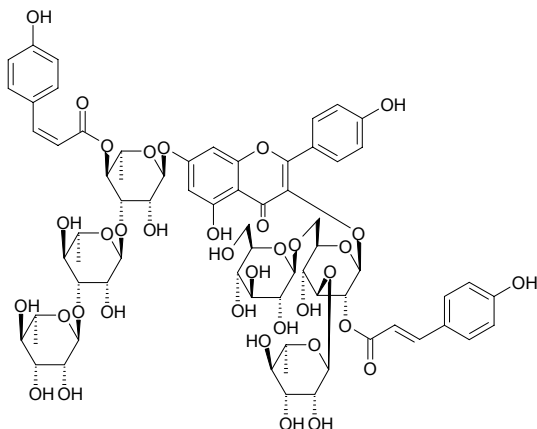
12056 Kaempferol 3-O-α-L-(2-O-β-D-glucopyranosyl)rhamnopyranoside-7-O-β-D-(6-O-malonyl)glucopyranoside

C₃₆H₄₂O₂₃ (842.72). Source: SHUANG HUA FAN HONG HUA *Crocus chrysanthus-biflorus*. Ref: 2343.



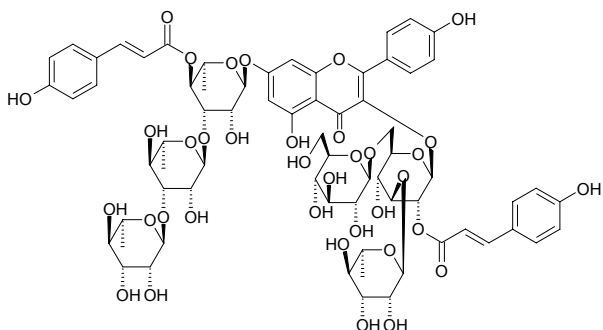
12057 Kaempferol-3-O- β -D-glucopyranosyl (1 \rightarrow 6)- α -L-rhamnopyranosyl(1 \rightarrow 3)-(2-O-trans-p-coumaroyl)- β -D-glucopyranoside-7-O-[α -L-rhamnopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 3)-(4-O-cis-p-coumaroyl)- α -L-rhamnopyranoside]

C₆₉H₈₂O₃₆ (1487.40). [α]_D²⁰ = +342° (*c* = 0.045, MeOH). Source: GAO DA SHAN LAN *Planchonia grandis* (leaf). Ref: 3443.



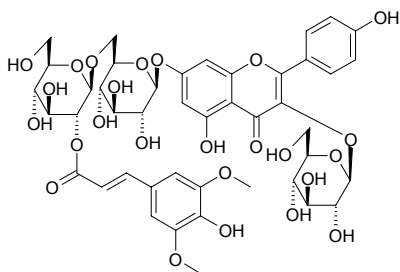
12058 Kaempferol-3-O- β -D-glucopyranosyl (1 \rightarrow 6)- α -L-rhamnopyranosyl(1 \rightarrow 3)-(2-O-trans-p-coumaroyl)- β -D-glucopyranoside-7-O-[α -L-rhamnopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 3)-(4-O-trans-p-coumaroyl)- α -L-rhamnopyranoside]

C₆₉H₈₂O₃₆ (1487.40). [α]_D²⁰ = +228.7° (*c* = 0.167, MeOH). Source: GAO DA SHAN LAN *Planchonia grandis* (leaf). Ref: 3443.



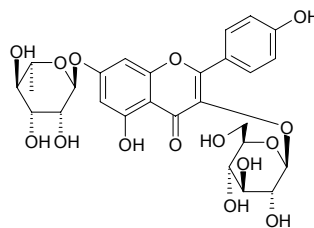
12059 Kaempferol-3- β -D-glucopyranosyl-7-O-[(2-O-trans-sinapoyl)- β -D-glucopyranosyl (1 \rightarrow 6)]- β -D-glucopyranoside

C₄₄H₅₀O₂₅ (978.87). Yellowish grain (MeOH), mp 215°C (dec). Source: BO NIANG HAO *Descurainia Sophia* (seed). Ref: 4829.



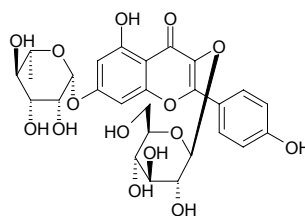
12060 Kaempferol-3- β -D-gluco-7- α -L-rhamnoside

C₂₇H₃₀O₁₅ (594.53). mp 249~251°C, mp 231~234°C. Pharm: Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 15%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 64 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC = 64 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]. Source: CAN DOU YE *Vicia faba*, NAN SHE TENG YE *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 6, 5319.



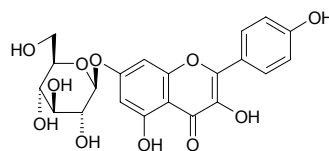
12061 Kaempferol-3- β -D-gluco-7- β -L-rhamnoside

C₂₇H₃₀O₁₅ (594.53). Source: TIAO JING CAO *Euonymus japonicus*. Ref: 6.



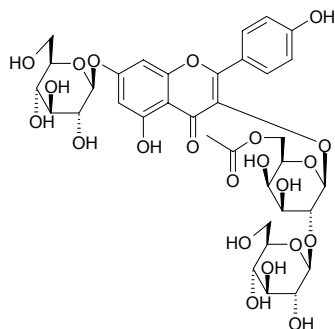
12062 Kaempferol-7-O-glucoside

Populnin C₂₁H₂₀O₁₁ (448.39). Pharm: DPPH scavenger (SC₅₀ = 12 μ mol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 32 μ mol/L)^[4247]; antioxidant (*in vitro*, DPPH radical scavenger, 0.1mg/mL, ScRt = 91.2%)^[3015]. Source: CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], LAN YU BAI JI *Bletilla formosana* (whole herb), XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00019%), HUO TAN MU CAO *Polygonum chinense*, ZANG HONG HUA *Crocus sativus* (petal: yield = 0.00012%)^[3015]. Ref: 660, 3015, 4247, 4500.



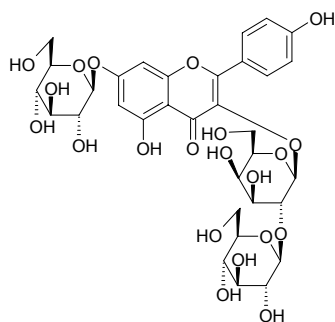
12063 Kaempferol 3-O- β -D-glucosyl(1 \rightarrow 2)-(6''-O-acetyl)- β -D-galactoside 7-O- β -D-glucoside

C₃₅H₄₂O₂₂ (814.71). Amorphous powder, mp 200–203°C, $[\alpha]_D^{26} = -76^\circ$ ($c = 0.08$, MeOH). Source: HU LU BA *Trigonella foenum-graecum* (stem). Ref: 5197.



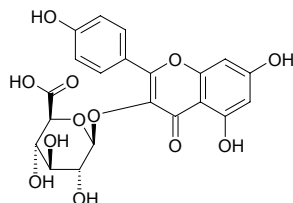
12064 Kaempferol 3-O- β -D-glucosyl(1 \rightarrow 2)- β -D-galactoside 7-O- β -D-glucoside

C₃₃H₄₀O₂₁ (772.67). Amorphous powder, mp 220–222°C, $[\alpha]_D^{26} = -37^\circ$ ($c = 0.09$, H₂O). Source: HU LU BA *Trigonella foenum-graecum* (stem). Ref: 5197.



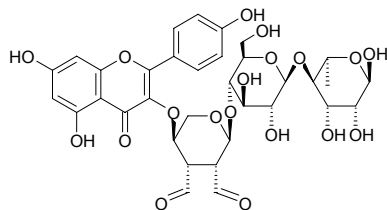
12065 Kaempferol 3- β -D-glucuronide

C₂₁H₁₈O₁₂ (462.37). mp 189–190.5°C. Source: JI CHANG LANG DU *Euphorbia esula*, LAO YA SHI *Diospyros rhombifolia* (leaf). Ref: 6, 4464.



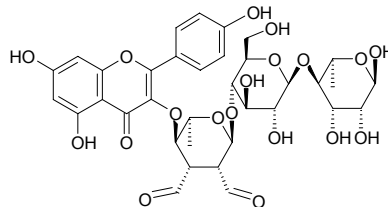
12066 Kaempferol 3-O-lysimachiatrioside

C₃₄H₃₈O₁₉ (750.67). Source: DA JIN QIAN CAO *Lysimachia christinae*. Ref: 660.



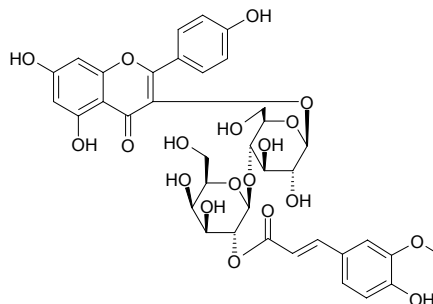
12067 Kaempferol 3-O-lysimachiatrioside

C₃₅H₄₀O₁₉ (764.70). Source: DA JIN QIAN CAO *Lysimachia christinae*. Ref: 2.



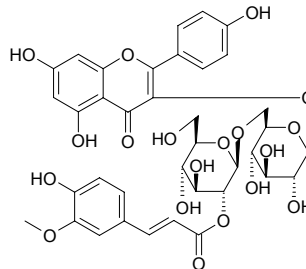
12068 Kaempferol 3-O-[2-O-(trans-3-methoxy-4-hydroxycinnamoyl)- β -D-galactopyranosyl(1 \rightarrow 4)-O- β -D-glucopyranoside

C₃₇H₃₈O₁₉ (786.70). Yellowish amorphous solid, $[\alpha]_D^{25} = -9^\circ$ ($c = 0.02$, MeOH). Source: JIU CONG *Allium porrum* (bulb). Ref: 5152.



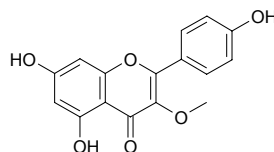
12069 Kaempferol 3-O-[2-O-(trans-3-methoxy-4-hydroxycinnamoyl)- β -D-glucopyranosyl(1 \rightarrow 6)-O- β -D-glucopyranoside

C₃₇H₃₈O₁₉ (786.70). Yellowish amorphous solid, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.02$, MeOH). Source: JIU CONG *Allium porrum* (bulb). Ref: 5152.



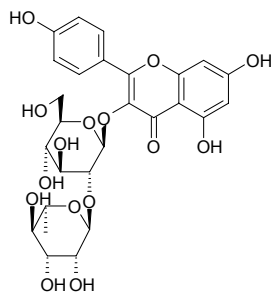
12070 Kaempferol 3-methyl ether

Isokempferide C₁₆H₁₂O₆ (300.27). Pharm: Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC₅₀ = (50.7±3.0)μg/mL; control NDGA, IC₅₀ = (0.7±0.3)μg/mL, Vitamin C, IC₅₀ = (1.9±0.7)μg/mL, Trolox, IC₅₀ = (1.4±0.5)μg/mL)^[3850]; cytotoxic (XTT assay, HL-60 cells, IC₅₀ = (28.3±3.5)μg/mL; control NDGA, IC₅₀ = (2.6±0.2)μg/mL, Vitamin C, IC₅₀ > 10.0μg/mL, Trolox, IC₅₀ > 10.0μg/mL)^[3850]; antiviral; CYP3A4 inhibitor (IC₅₀ = 36.2μmol/L, control Ketoconazole, IC₅₀ = 0.245μmol/L)^[4669]; CYP2D6 inhibitor (IC₅₀ = 4.63μmol/L, control Quinidine, IC₅₀ = 0.078μmol/L)^[4669]. Source: SAN CHI LA RUI A *Larrea tridentata* (leaf), YE GUO QIE *Solanum sarrachoides*, FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00021%dw). Ref: 658, 3850, 4669.

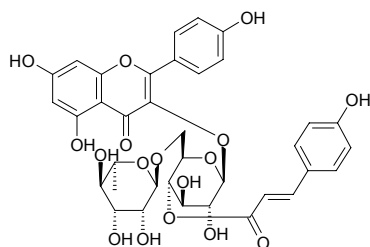


12071 Kaempferol-3-O-neohesperidoside

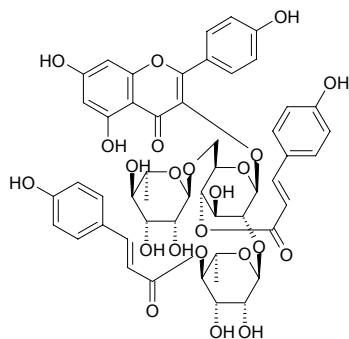
Kaempferol 3-O-(2"-O- α -rhamnopyranosyl)- β -glucopyranoside C₂₇H₃₀O₁₅ (594.53). Source: LAO YA SHI *Diospyros rhombifolia* (leaf), PU HUANG *Typha angustata*, KUAN YE XIANG PU *Typha latifolia*. Ref: 2, 660, 4464.

**12072 Kaempferol 3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)-(4-O-*trans*-p-coumaroyl)- β -D-galactopyranoside**

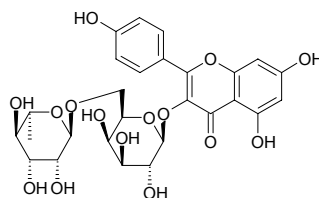
C₃₆H₃₆O₁₇ (740.68). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0044%dw). Ref: 3014.

**12073 Kaempferol 3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)-[(4-O-*trans*-p-coumaroyl)- α -L-rhamnopyranosyl(1 \rightarrow 2)]-(4-O-*trans*-p-coumaroyl)- β -D-galactopyranoside**

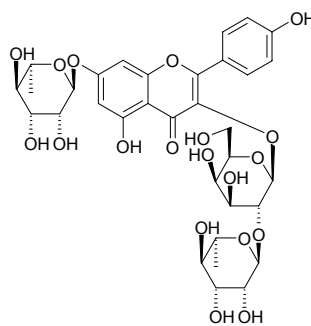
C₅₁H₅₂O₂₃ (1032.97). Yellow powder, $[\alpha]_D^{25} = -274^\circ$ ($c = 0.3$, MeOH). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0022%dw). Ref: 3014.

**12074 Kaempferol 3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)- β -D-galactopyranoside**

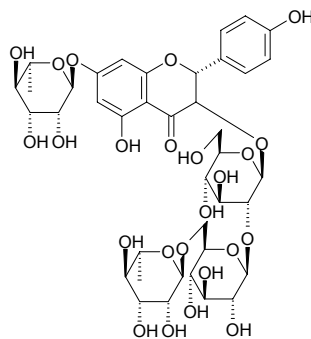
C₂₇H₃₀O₁₅ (594.53). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0013%dw). Ref: 3014.

**12075 Kaempferol 3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl-7-O- α -L-rhamnopyranoside**

C₃₃H₄₀O₁₉ (740.68). Source: SI GUO HUANG QI *Astragalus shikokianus* (aerial parts). Ref: 3922.

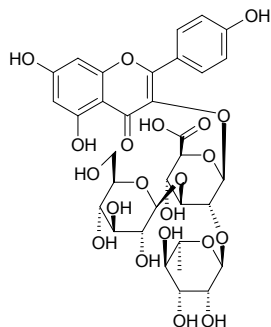
**12076 Kaempferol 3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside-7-O- α -L-rhamnopyranoside**

C₃₉H₅₂O₂₄ (904.83). Yellow amorphous powder. Source: HUIAI *Sophora japonica* (seed). Ref: 3391.



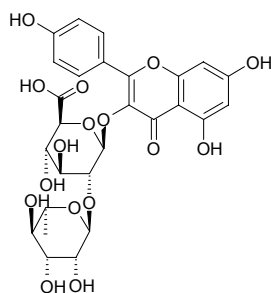
12077 Kaempferol 3-O-(2''-O- α -rhamnopyranosyl-3''-O- β -glucopyranosyl)- β -glucuronopyranoside

C₃₃H₃₈O₂₁ (770.66). Pale yellow solid, $[\alpha]_D = -59^\circ$ ($c = 0.1$, MeOH). Source: LAO YA SHI *Diospyros rhombifolia* (leaf). Ref: 4464.



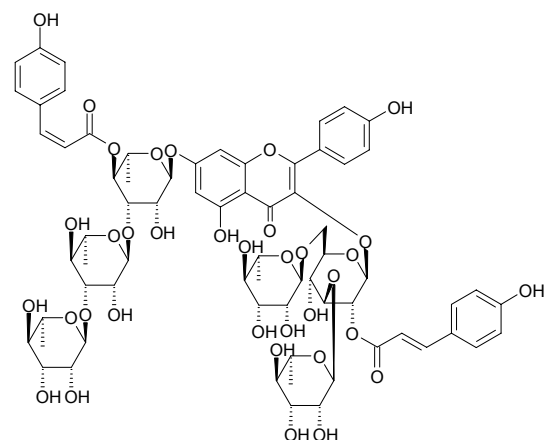
12078 Kaempferol 3-O-(2''- α -rhamnopyranosyl)- β -glucuronopyranoside

C₂₇H₂₈O₁₆ (608.51). Source: LAO YA SHI *Diospyros rhombifolia* (leaf). Ref: 4464.



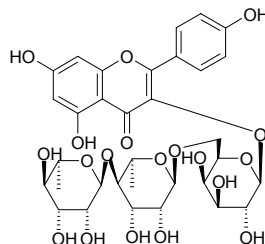
12079 Kaempferol-3-O-[α -L-rhamnopyranosyl (1→6)-{ α -L-rhamnopyranosyl(1→3)}-(2-O-*trans-p*-coumaroyl)]- β -D-glucopyranoside-7-O-[α -L-rhamnopyranosyl(1→3)- α -L-rhamnopyranosyl(1→3)-(4-O-*trans-p*-coumaroyl)]- α -L-rhamnopyranoside

C₆₉H₈₂O₃₅ (1471.40). $[\alpha]_D^{20} = -122.8^\circ$ ($c = 0.464$, MeOH). Source: GAO DA SHAN LAN *Planchonia grandis* (leaf). Ref: 3443.



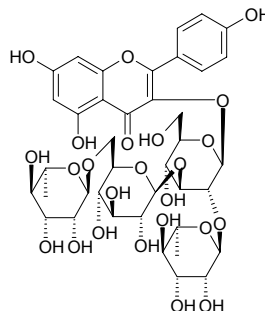
12080 Kaempferol-3-O-[α -rhamnopyranosyl-(1→4)-rhamnopyranosyl-(1→6)- β -galactopyranoside]

C₃₃H₄₀O₁₉ (740.68). Source: MI HOU LI GEN *Actinidia arguta*, MU TIAN LIAO *Actinidia polygama*. Ref: 660.



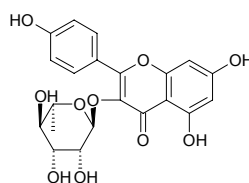
12081 Kaempferol 3-O-[2''-O- α -rhamnopyranosyl-3''-O-(6'''-O- α -rhamnopyranosyl)- β -glucopyranosyl]- β -glucopyranoside

C₃₉H₅₀O₂₄ (902.82). Pale-yellow solid, $[\alpha]_D = -36^\circ$ ($c = 0.1$, MeOH). Source: LAO YA SHI *Diospyros rhombifolia* (leaf). Ref: 4464.



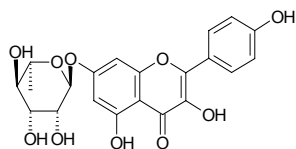
12082 Kaempferol-3-rhamnoside

Kaempferol 3-O- α -L-rhamnopyranoside; 3,4',5,7-Tetrahydroxyflavone-3-L-rhamnoside [482-39-3] C₂₁H₂₀O₁₀ (432.39). mp 172–174°C. Pharm: Antioxidant (6.25 μ g/mL, superoxide radical scavenging activity = 5.5 %, control Curcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 9.4 %, control Curcumin 50.0%)^[4535]; hepatoprotective (primary cultures of rat hepatocytes, H₂O₂-induced toxicity, 50 μ mol/L, relative protection = 50.8% (H₂O₂-treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%)^[4996]; CYP3A4 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Ketoconazole, IC₅₀ = 0.245 μ mol/L)^[4669]; CYP2D6 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Quinidine, IC₅₀ = 0.078 μ mol/L)^[4669]. Source: BAI GUO YE *Ginkgo biloba*, CHI YANG *Alnus japonica* (leaf), DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*], FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00066%dw), LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, MA HUANG *Ephedra sinica*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MAO YAN CAO *Euphorbia lunulata*, RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts), YOU GAN YE *Phyllanthus emblica* (leaf and branch), YU XING CAO *Houttuynia cordata*. Ref: 2, 6, 603, 660, 4205, 4535, 4544, 4669, 4996.

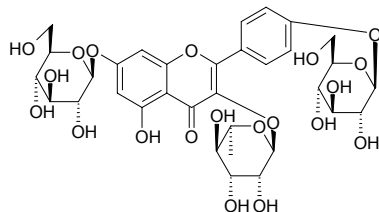


12083 Kaempferol-7-rhamnoside

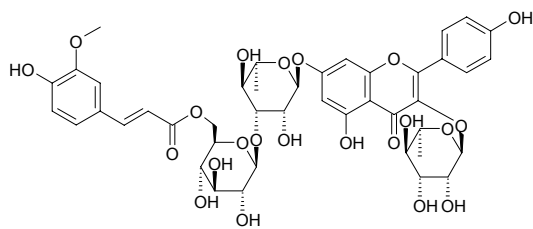
Kaempferol-7-*O*- α -L-rhamnoside [20196-89-8] C₂₁H₂₀O₁₀ (432.39). Yellow acicular crystals, mp 232~234°C (chloroform-methanol); mp 239~342°C, [α]_D²⁰ = -180 (methanol). **Pharm:** Ileal smooth muscle relaxant (gpg *in vitro*, nicotine antagonist, ED₅₀ = 9.0 μ g/mL, histamine antagonist, ED₅₀ = 13 μ g/mL, acetylcholine antagonist, ED₅₀ = 15~21 μ g/mL); aldose reductase inhibitor (rat eye lens, 10 μ mol/L, InRt = 40.9%). **Source:** BAI FAN DOU *Phaseolus vulgaris*, DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*], GU JIE CAO *Equisetum palustre*, NAN SHE TENG YE *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], TU JING JIE *Chenopodium ambrosioides*, ZI HUA JING TIAN *Hylotelephium mingjiniatum*. **Ref:** 6, 900.

**12084 Kaempferol 3-O-alpha-rhamnoside-7,4'-di-O-beta-galactoside**

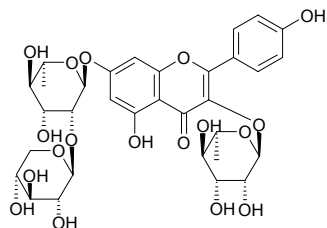
C₃₃H₄₀O₂₀ (756.67). Amorphous yellow powder. **Source:** *Warburgia ugandensis* (leaf). **Ref:** 3470.

**12085 Kaempferol-3-rhamnoside-7-O-[6-feruloylglucosyl(1-3)-rhamnoside]**

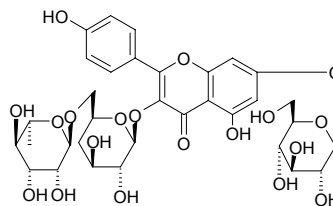
C₄₃H₄₈O₂₂ (916.85). **Source:** CHANG SHENG TIE JIAO JUE *Asplenium prolongatum*. **Ref:** 660.

**12086 Kaempferol-3-rhamnoside-7-xylosyl(1-2)-rhamnoside**

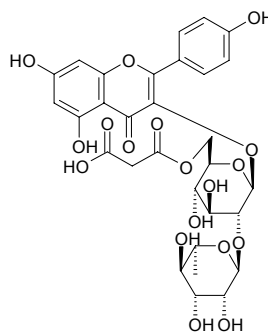
C₃₂H₃₈O₁₈ (710.65). Yellow amorphous powder. **Source:** BI SHENG LI *Chenopodium murale*. **Ref:** 2304.

**12087 Kaempferol-3-rhamnosyl glucoside-7-glucoside**

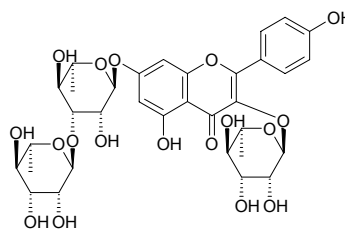
Kaempferol-3-rutinoside-7-glucoside C₃₃H₄₀O₂₀ (756.67). **Source:** MU ZEI *Equisetum hiemale* (aerial parts: mean content of 3 origins = 0.017%). **Ref:** 5508.

**12088 Kaempferol-3-O-(2''-O-alpha-rhamnosyl-6''-O-malonyl)-beta-glucoside**

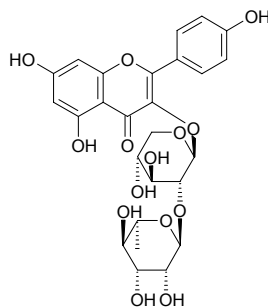
C₃₀H₃₂O₁₈ (680.58). Light-yellow amorphous powder. **Source:** HU DIE HUA DOU *Clitoria ternatea*. **Ref:** 2064.

**12089 Kaempferol-3-O-rhamnosyl-7-rhamnosyl-(1-3)-rhamnoside**

C₃₃H₄₀O₁₈ (724.68). **Source:** DA JIN QIAN CAO *Lysimachia christinae*. **Ref:** 660.

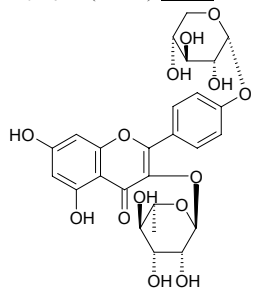
**12090 Kaempferol-3-O-alpha-L-rhamnosyl(1-2)-beta-D-xyloside**

C₂₆H₂₈O₁₄ (564.50). Yellow crystals, mp 186~188°C. **Source:** DA JIN QIAN CAO *Lysimachia christinae*. **Ref:** 2461.

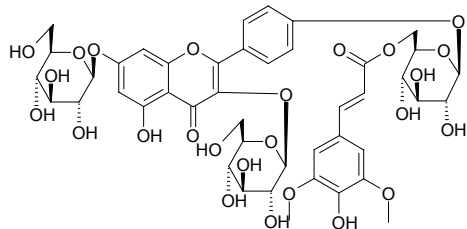


12091 Kaempferol-3-rhamno-4'-xyloside

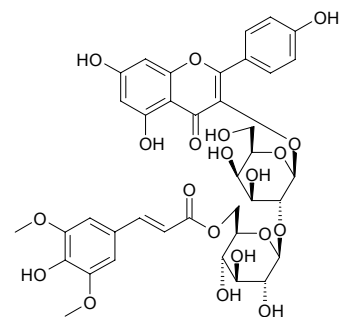
$C_{26}H_{28}O_{14}$ (564.50). Source: TU JING JIE *Chenopodium ambrosioides*. Ref: 660.

**12092 Kaempferol-4'-(6-O-E-sinapoyl-β-glucopyranoside)-3,7-di-O-β-glucopyranoside**

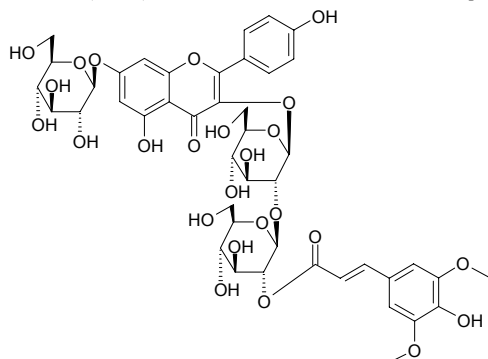
$C_{44}H_{50}O_{25}$ (978.87). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**12093 Kaempferol-3-O-[(6-O-sinapoyl)-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside]**

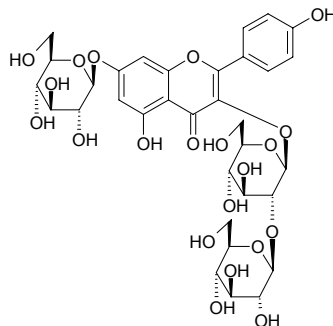
$C_{38}H_{40}O_{20}$ (816.73). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 27\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; HIV-1 IN inhibitor, $IC_{50} = 30\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). Ref: 4187.

**12094 Kaempferol-3-(2''-O-E-sinapoylsophoroside)-7-O-β-glucopyranoside**

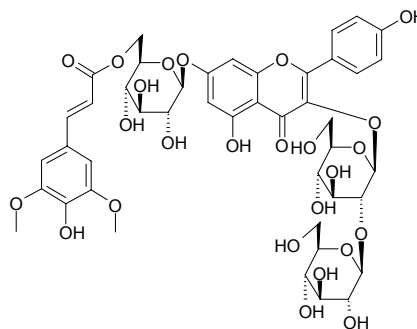
$C_{44}H_{50}O_{25}$ (978.87). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**12095 Kaempferol-3-O-sophoroside-7-O-β-glucopyranoside**

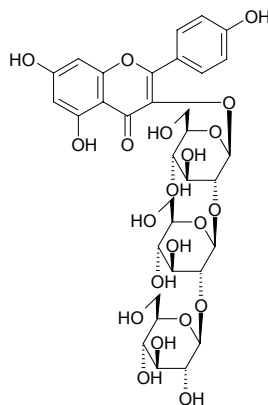
$C_{33}H_{40}O_{21}$ (772.67). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**12096 Kaempferol-3-O-sophoroside-7-O-(2-O-E-sinapoyl-β-glucopyranoside)**

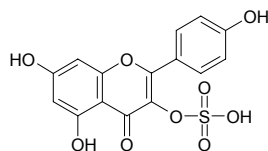
$C_{44}H_{50}O_{25}$ (978.87). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**12097 Kaempferol-3-sophorotrioside**

$C_{33}H_{40}O_{21}$ (772.67). Pharm: Hepatoprotective (*in vitro*, mus primary cultured hepatocytes, inhibits liver cytotoxicity induced by GalN, $100\mu\text{mol/L}$, $InRt = (27.0 \pm 3.6)\%$, $p < 0.01$). Source: WAN DOU *Pisum sativum* (young seedpot). Ref: 4110.

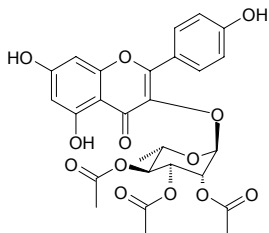
**12098 Kaempferol-3-sulphate**

$C_{15}H_{10}O_9S$ (366.31). Source: ZHU ZONG CAO *Adiantum capillus-veneris*. Ref: 660.

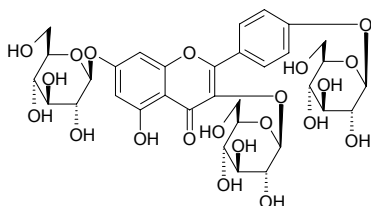


12099 Kaempferol-3-O-(2,3,4-tri-O-acetyl- α -L-rhamnopyranoside)

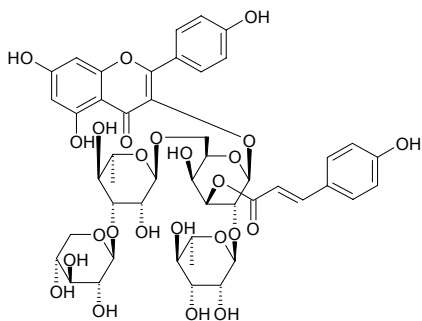
$C_{27}H_{26}O_{13}$ (558.50). **Pharm:** CYP3A4 inhibitor (IC_{50} = 14.4 μ mol/L, control Ketoconazole, IC_{50} = 0.245 μ mol/L); CYP2D6 inhibitor (IC_{50} = 43.3 μ mol/L, control Quinidine, IC_{50} = 0.078 μ mol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00013%dw). **Ref:** 4669.

**12100 Kaempferol-3,7,4'-tri-O- β -glucoside**

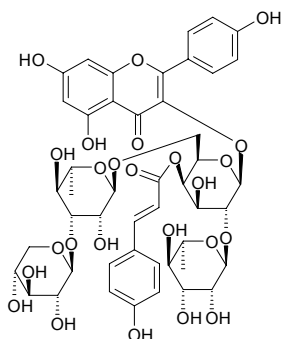
$C_{33}H_{40}O_{21}$ (772.67). Amorphous yellow powder. **Source:** *Warburgia ugandensis* (leaf). **Ref:** 3470.

**12101 Kaempferol-3-O- $\{\beta$ -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 6) $\}$**

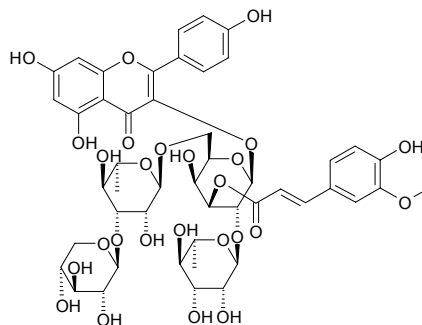
$\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2) $\}$ - β -D-3-*trans*-*p*-coumaroylgalactopyranoside
 $C_{47}H_{54}O_{25}$ (1018.94). $[\alpha]_D^{20}$ = -94.4° (c = 0.09, MeOH). **Source:** SHAN YANG HUANG QI *Astragalus caprinus* (leaf). **Ref:** 4215.

**12102 Kaempferol-3-O- $\{\beta$ -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 6) $\}$**

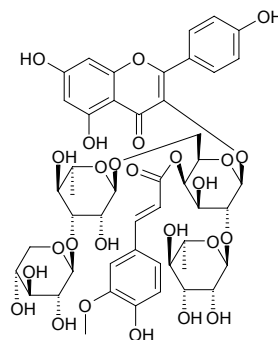
$\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2) $\}$ - β -D-4-*trans*-*p*-coumaroylgalactopyranoside
 $C_{47}H_{54}O_{25}$ (1018.94). $[\alpha]_D^{20}$ = +149.0° (c = 0.50, MeOH). **Source:** SHAN YANG HUANG QI *Astragalus caprinus* (leaf). **Ref:** 4215.

**12103 Kaempferol-3-O- $\{\beta$ -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 6) $\}$**

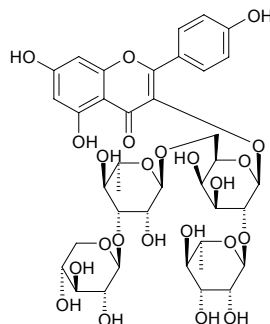
$\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2) $\}$ - β -D-3-*trans*-feruloylgalactopyranoside
 $C_{48}H_{56}O_{26}$ (1048.97). $[\alpha]_D^{20}$ = -87.5° (c = 0.40, MeOH). **Source:** SHAN YANG HUANG QI *Astragalus caprinus* (leaf). **Ref:** 4215.

**12104 Kaempferol-3-O- $\{\beta$ -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 6) $\}$**

$\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2) $\}$ - β -D-4-*trans*-feruloylgalactopyranoside
 $C_{48}H_{56}O_{26}$ (1048.97). $[\alpha]_D^{20}$ = -146.6° (c = 0.09, MeOH). **Source:** SHAN YANG HUANG QI *Astragalus caprinus* (leaf). **Ref:** 4215.

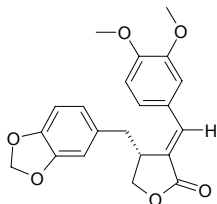
**12105 Kaempferol-3-O- $\{\beta$ -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 6) $\}$**

$\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2) $\}$ - β -D-galactopyranoside
 $C_{38}H_{48}O_{23}$ (872.79). $[\alpha]_D^{20}$ = -97.3° (c = 0.38, MeOH). **Source:** SHAN YANG HUANG QI *Astragalus caprinus* (leaf). **Ref:** 4215.

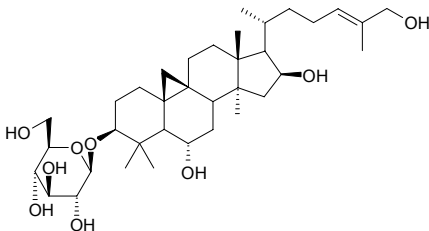


12106 Kaerophyllin

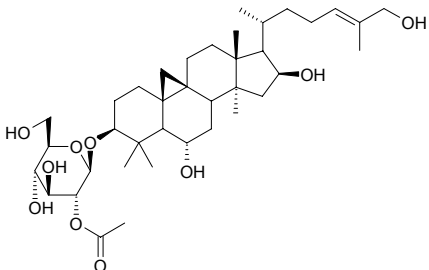
Chaerophyllin [75590-33-9] $C_{21}H_{20}O_6$ (368.39). **Pharm:** Cytotoxic (hmn peripheral blood T cells, dose = 2.0 $\mu\text{g}/\text{mL}$, T cell survival rate = 71%); immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0 $\mu\text{g}/\text{mL}$, InRt = 49%). **Source:** HONG CHAI HU *Bupleurum scorzonrifolium* (root). **Ref:** 3498.

**12107 Kahiricoside II**

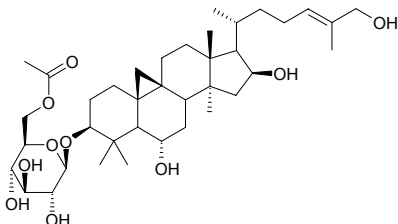
9 β ,19-Cyclolanost-24E-ene-3 β ,6 α ,16 β ,27-tetraol-3-O- β -D-glucopyranoside $C_{36}H_{60}O_9$ (636.87). Colorless needles, mp 118°C, $[\alpha]_D^{25} = +12.3^\circ$ ($c = 0.06$, MeOH). **Pharm:** Cytotoxic (A2780, $IC_{50} = 23.0 \mu\text{g}/\text{mL}$, weak activity). **Source:** KAI LUO HUANG QI *Astragalus kahiricus* (aerial parts). **Ref:** 3873.

**12108 Kahiricoside III**

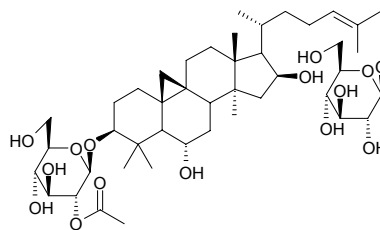
9 β ,19-Cyclolanost-24E-ene-3 β ,6 α ,16 β ,27-tetraol-3-O-(2'-O-acetyl)- β -D-glucopyranoside $C_{38}H_{62}O_{10}$ (678.91). Colorless needles, mp 140°C, $[\alpha]_D^{25} = +49^\circ$ ($c = 0.065$, MeOH). **Pharm:** Cytotoxic (A2780, $IC_{50} = 16.0 \mu\text{g}/\text{mL}$, weak activity). **Source:** KAI LUO HUANG QI *Astragalus kahiricus* (aerial parts). **Ref:** 3873.

**12109 Kahiricoside IV**

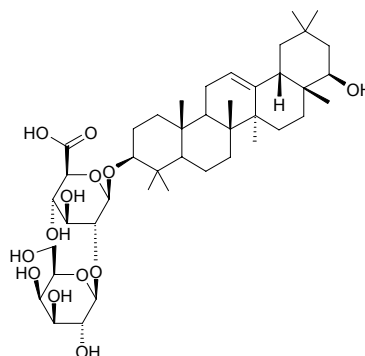
9 β ,19-Cyclolanost-24E-ene-3 β ,6 α ,16 β ,27-tetraol-3-O-(6'-O-acetyl)- β -D-glucopyranoside $C_{38}H_{62}O_{10}$ (678.91). Colorless needles, mp 165°C, $[\alpha]_D^{25} = +175^\circ$ ($c = 0.02$, MeOH). **Pharm:** Cytotoxic (A2780, $IC_{50} = 17.0 \mu\text{g}/\text{mL}$, weak activity). **Source:** KAI LUO HUANG QI *Astragalus kahiricus* (aerial parts). **Ref:** 3873.

**12110 Kahiricoside V**

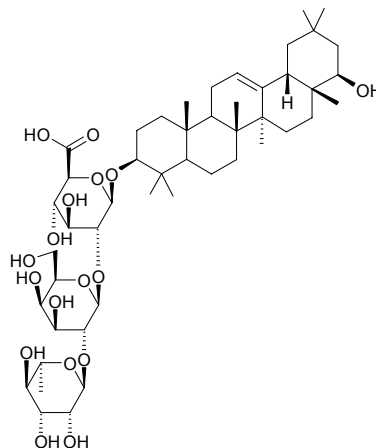
9 β ,19-Cyclolanost-24E-ene-3 β ,6 α ,16 β ,27-tetraol-3-O- β -D-glucopyranosyl-27-O- β -D-glucopyranoside $C_{44}H_{72}O_{15}$ (841.06). Colorless needles, mp 157–158°C, $[\alpha]_D^{25} = +86.7^\circ$ ($c = 0.015$, MeOH). **Pharm:** Cytotoxic (A2780, $IC_{50} = 17.0 \mu\text{g}/\text{mL}$, weak activity). **Source:** KAI LUO HUANG QI *Astragalus kahiricus* (aerial parts). **Ref:** 3873.

**12111 Kaikasaponin I**

$C_{42}H_{68}O_{13}$ (781.00). **Source:** HUAI *Sophora japonica*. **Ref:** 660.

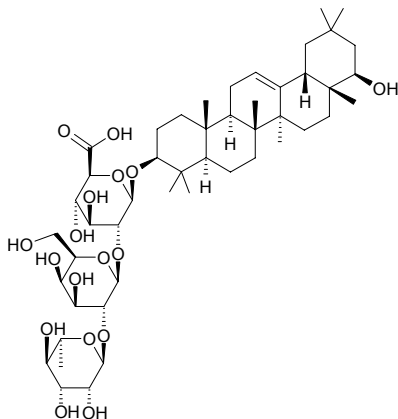
**12112 Kaikasaponin II**

$C_{48}H_{78}O_{17}$ (927.15). **Source:** HUAI *Sophora japonica*. **Ref:** 660.

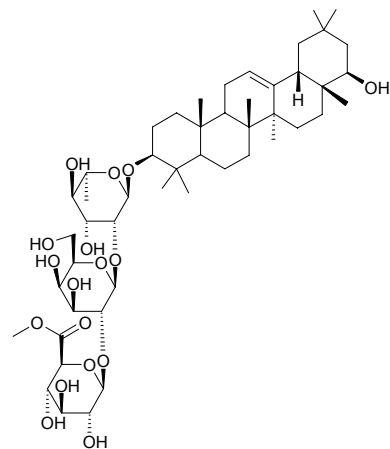


12113 Kaikasaponin III

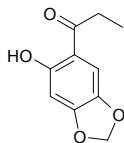
[115330-90-0] $C_{48}H_{78}O_{17}$ (927.15). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HUAI *Sophora japonica*, HUANG HUA DI DING *Crotalaria albida*, JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 718, 1521.

**12114 Kaikasaponin III methyl ester**

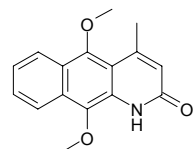
$C_{49}H_{80}O_{17}$ (941.17). Source: XIANG SI ZI *Abrus precatorius*. Ref: 660.

**12115 Kakuol**

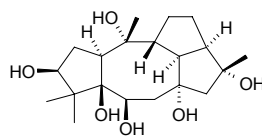
$C_{10}H_{10}O_4$ (194.19). Source: DU HENG *Asarum forbesii*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*. Ref: 660.

**12116 Kalasinamide**

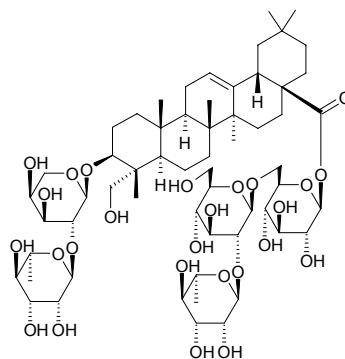
1-Aza-9,10-dimethoxy-4-methyl-2-oxo-1,2-dihydroanthracene $C_{16}H_{15}NO_3$ (269.30). Orange needles (EtOH- CH_2Cl_2), mp 233.8~235.5°C. Source: AN LUO *Polyalthia suberosa* (stem). Ref: 3946.

**12117 Kalmanol**

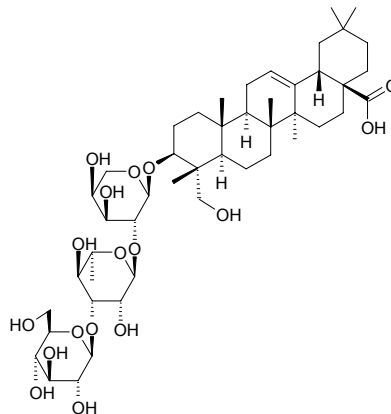
$C_{20}H_{34}O_6$ (370.49). Source: NAO YANG HUA *Rhododendron molle* (flower; yield = 0.00042% $dw^{[4780]}$). Ref: 660, 4780.

**12118 Kalopanax saponin C**

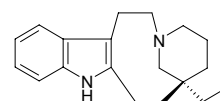
3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl]-hedragenin-28-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester $C_{59}H_{96}O_{26}$ (1221.41). White crystals (methanol), mp 226~228°C, $[\alpha]_D^{14} = +14.2^\circ$ ($c = 0.005$, methanol). Source: CI QIU SHU PI *Kalopanax septemlobus*. Ref: 148.

**12119 Kalopanax saponin H**

$C_{47}H_{76}O_{17}$ (913.12). White powder, $[\alpha]_D^{20} = +8.6^\circ$ ($c = 0.5$, H_2O). Source: CI QIU SHU PI *Kalopanax septemlobus*. Ref: 457.

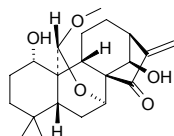
**12120 Kamassine**

Quebrachamine [14430-17-2] $C_{19}H_{26}N_2$ (282.43). Crystals (MeOH), mp 147~149°C, $[\alpha]_D = +98^\circ$ ($CHCl_3$), $[\alpha]_D = +108.9^\circ$ (Me_2CO). Source: LA BA ZHUANG DUO GUO SHU *Pleiocarpa tubicina* (leaf), ZHI LI CHANG CHUN HUA *Vinca erecta*. Ref: 1521.

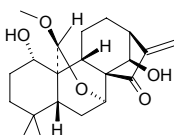


12121 Kamebacetal A

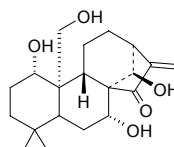
$C_{21}H_{30}O_5$ (362.47). mp 241~243°C, $[\alpha]_D^{26} = -37.5^\circ$ ($c = 0.11$, MeOH). Source: KA MEI XIANG CHA CAI *Isodon kameba*, YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 4067.

**12122 Kamebacetal B**

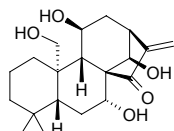
$C_{21}H_{30}O_5$ (362.47). mp 230~232°C, $[\alpha]_D^{26} = -58^\circ$ ($c = 0.43$, MeOH). Source: KA MEI XIANG CHA CAI *Isodon kameba*, YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 4067.

**12123 Kamebakaurin**

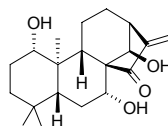
$C_{20}H_{30}O_5$ (350.46). mp 232~234°C, $[\alpha]_D^{21.5} = -107^\circ$ ($c = 1.0$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.82\mu\text{g/mL}$)^[3012]; anti-inflammatory (specific NF- κ B inhibitor of DNA-binding activity of p50 subunit, valuable candidate for intervention in NF- κ B-dependent pathological condition such as inflammation)^[4988]; anti-inflammatory (*in vivo* animal models, induced by carrageenan, oral administration of 20mg/kg resulted in 75% decrease of paw edema volume)^[4988]; anti-inflammatory (LPS-stimulated RAW264.7 cells, inhibits not only expression of inflammatory NF- κ B target genes such as iNOS, COX-2 and TNF- α but also production of PGE₂ and TNF- α)^[4988]; anti-inflammatory (adjuvant arthritis model, suppresses recruitment of neutrophils, production of TNF- α as well as PGE₂ in pouch exudates induced by carrageenan)^[4988]. Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*, KA MEI XIANG CHA CAI *Isodon kameba*, MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.020%dw), YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 660, 3012, 4067, 4988.

**12124 Kamebakaurinin**

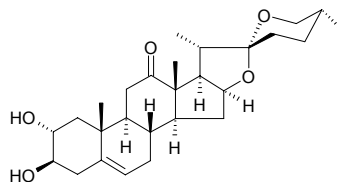
$C_{20}H_{30}O_5$ (350.46). mp 267~269°C, $[\alpha]_D^{25} = -101^\circ$ ($c = 0.92$, MeOH). Source: KA MEI XIANG CHA CAI *Isodon kameba*, YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 4067.

**12125 Kamebanin**

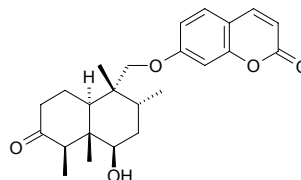
1 α ,7 α ,14 β -Trihydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{30}O_4$ (334.46). mp 266~267°C, $[\alpha]_D^{19} = -108^\circ$ ($c = 1.0$, dioxane). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 0.69\mu\text{g/mL}$)^[3012]. Source: KA MEI XIANG CHA CAI *Isodon kameba*, WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.0023%dw), YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 3012, 4067.

**12126 Kammogenin**

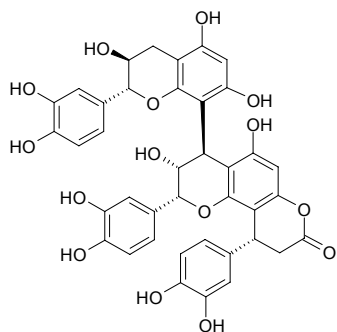
$C_{27}H_{40}O_5$ (444.62). mp 240~241°C. Source: WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*]. Ref: 6.

**12127 Kamolonol**

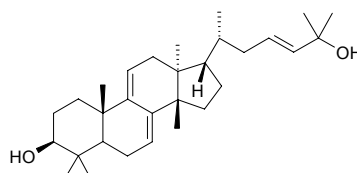
$C_{24}H_{30}O_5$ (398.50). Source: A WEI *Ferula assafoetida*. Ref: 660.

**12128 Kandelin A₁**

[88903-77-9] $C_{39}H_{32}O_{15}$ (740.68). Pharm: Tanning agent. Source: QIU QIE SHU *Kandelia candel*. Ref: 658.

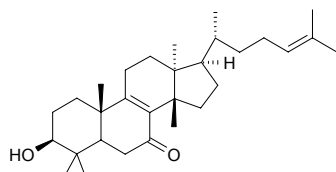
**12129 Kansanol**

$C_{30}H_{48}O_2$ (440.72). Colorless gum, $[\alpha]_D^{23} = -50.2^\circ$ ($c = 0.18$, MeOH). Source: GAN SUI *Euphorbia kansui* (dried root). Ref: 4690.

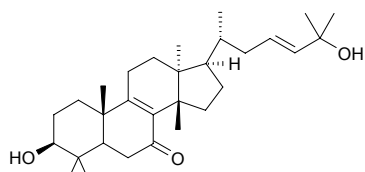


12130 Kansene

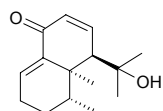
Eupha-8,24-diene-3 β -ol-7-one C₃₀H₄₈O₂ (440.72). Colorless gum, $[\alpha]_D^{23} = +14.1^\circ$ ($c = 0.41$, MeOH). **Pharm:** Cell division arrester (cultured individual *Xenopus laevis* cells at blastular stage, 10 μ g/mL, >50% cleavage arrest). **Source:** GAN SUI *Euphorbia kansui* (dried root: yield = 0.00034%). **Ref:** 4690.

**12131 Kansenenol**

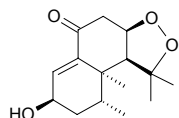
(23*E*)-Eupha-8,23-diene-3 β ,25-diol-7-one C₃₀H₄₈O₃ (456.72). Colorless gum, $[\alpha]_D^{23} = +14.3^\circ$ ($c = 0.21$, MeOH). **Pharm:** Cell division arrester (cultured individual *Xenopus laevis* cells at blastular stage, 10 μ g/mL, >50% cleavage arrest). **Source:** GAN SUI *Euphorbia kansui* (dried root: yield = 0.00007%). **Ref:** 4690.

**12132 Kanshone A**

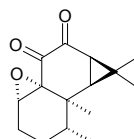
C₁₅H₂₂O₂ (234.34). **Source:** GAN SONG *Nardostachys chinensis*. **Ref:** 660.

**12133 Kanshone B**

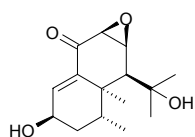
C₁₅H₂₂O₄ (266.34). **Source:** GAN SONG *Nardostachys chinensis*. **Ref:** 660.

**12134 Kanshone C**

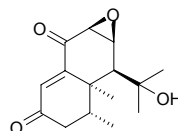
C₁₅H₂₀O₃ (248.32). **Source:** GAN SONG *Nardostachys chinensis*. **Ref:** 660.

**12135 Kanshone D**

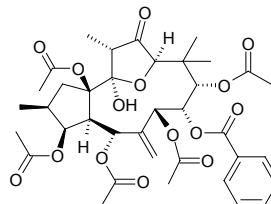
C₁₅H₂₂O₄ (266.34). **Source:** GAN SONG *Nardostachys chinensis*. **Ref:** 660.

**12136 Kanshone E**

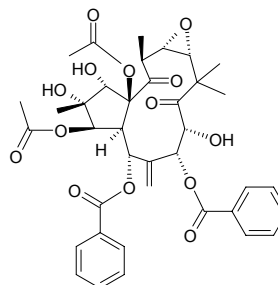
C₁₅H₂₀O₄ (264.32). **Source:** GAN SONG *Nardostachys chinensis*. **Ref:** 660.

**12137 Kansuinin A**

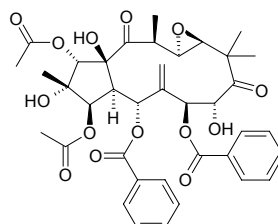
C₃₇H₄₆O₁₅ (730.77). **Pharm:** Cytotoxic inactive (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 50 μ g/mL)^[4645]. **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.00037%dw^[4645]; yield = 0.005%dw^[4766]). **Ref:** 4645, 4766.

**12138 Kansuinin B**

[57685-46-8] C₃₈H₄₂O₁₄ (722.75). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 50 μ g/mL, cleavage arrest 87%)^[4645]; toxin. **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.00008%dw)^[4645]. **Ref:** 658, 4645.

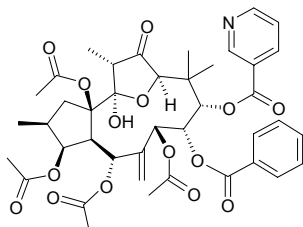
**12139 Kansuinin C**

C₃₈H₄₂O₁₄ (722.75). Colorless crystals (MeOH), mp 287~289°C, $[\alpha]_D^{23} = 37.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 50 μ g/mL). **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.00009%dw). **Ref:** 4645.

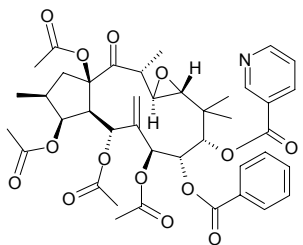


12140 Kansuinin D

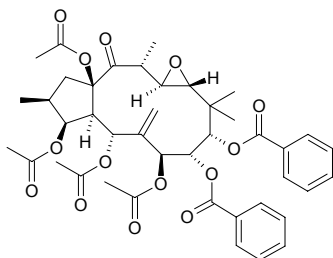
$C_{41}H_{47}NO_{15}$ (793.83). Colorless crystals (MeOH), mp 175–177°C, $[\alpha]_D^{23} = +76.5^\circ$ ($c = 0.40$, MeOH). **Pharm:** Induces cell cleavage arrest inactive (*Xenopus laevis* embryo cells at the blastular stage)^[4368]. **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.001%dw). **Ref:** 4368, 4766.

**12141 Kansuinin E**

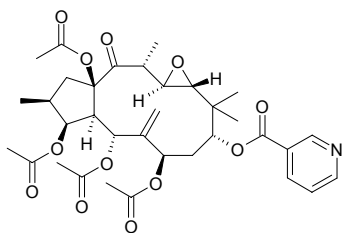
$C_{41}H_{47}NO_{14}$ (777.83). White crystals (MeOH), mp 126–128°C, $[\alpha]_D^{23} = +43.6^\circ$ ($c = 0.48$, MeOH). **Pharm:** Survival effect on fibroblasts that expressed (TrkA is a high-affinity receptor for nerve growth factor)^[4766]. **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.0004%dw). **Ref:** 4368, 4766.

**12142 Kansuinin F**

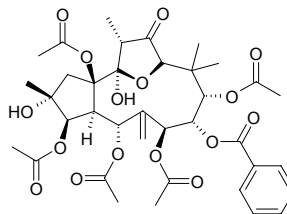
$C_{42}H_{48}O_{14}$ (776.84). Colorless needles (petroleum ether–ethyl acetate), mp 222–225°C, $[\alpha]_D^{25} = +41.0^\circ$ ($c = 0.322$, $CHCl_3$). **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.00015%dw). **Ref:** 4766.

**12143 Kansuinin G**

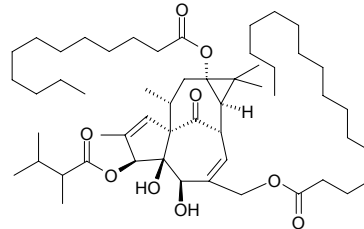
$C_{34}H_{43}NO_{12}$ (657.72). Colorless needles (petroleum ether–ethyl acetate), mp 220–223°C, $[\alpha]_D^{25} = -107.8^\circ$ ($c = 0.372$, $CHCl_3$). **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.00009%dw). **Ref:** 4766.

**12144 Kansuinin H**

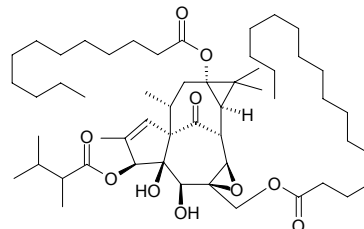
$C_{37}H_{46}O_{16}$ (746.77). Colorless needles (petroleum ether–acetone), mp 206–208°C, $[\alpha]_D^{25} = +28.4^\circ$ ($c = 0.081$, $CHCl_3$). **Source:** GAN SUI *Euphorbia kansui* (tuberoid: yield = 0.0002%dw). **Ref:** 4766.

**12145 Kansuiphorin A**

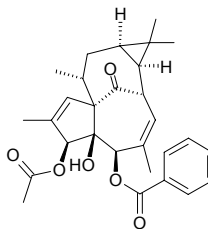
$C_{54}H_{90}O_9$ (883.31). **Pharm:** Antineoplastic. **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 660, 4368.

**12146 Kansuiphorin B**

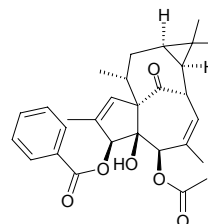
$C_{54}H_{90}O_{10}$ (899.31). **Pharm:** Antineoplastic. **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 660.

**12147 Kansuiphorin C**

$C_{29}H_{34}O_6$ (478.59). Colorless oil. **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 660, 2450.

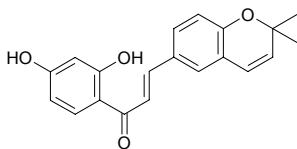
**12148 Kansuiphorin D**

$C_{29}H_{34}O_6$ (478.59). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 660.

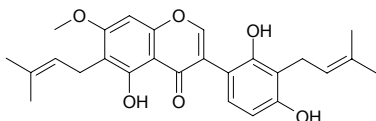


12149 Kanzonol B

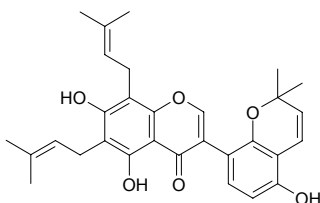
$C_{20}H_{18}O_4$ (322.36). Source: HUANG GAN CAO *Glycyrrhiza kansuensis*.
Ref: 2431.

**12150 Kanzonol K**

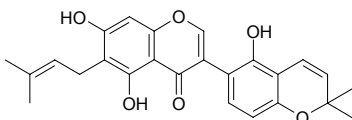
$C_{26}H_{28}O_6$ (436.51). Source: GAN CAO *Glycyrrhiza Uralensis*. Ref: 2431.

**12151 Kanzonol L**

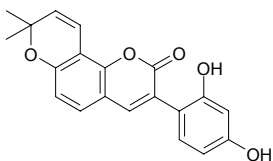
$C_{30}H_{32}O_6$ (488.59). Source: GAN CAO *Glycyrrhiza Uralensis*. Ref: 2431.

**12152 Kanzonol T**

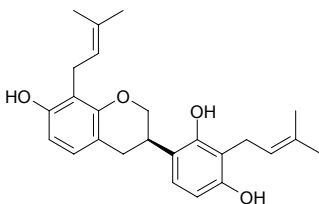
$C_{25}H_{24}O_6$ (420.47). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*.
Ref: 2431.

**12153 Kanzonol W**

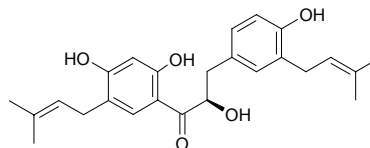
$C_{20}H_{16}O_5$ (336.35). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*.
Ref: 2431.

**12154 Kanzonol X**

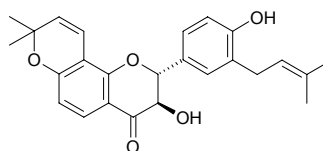
$C_{25}H_{30}O_4$ (394.52). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*.
Ref: 2431.

**12155 Kanzonol Y**

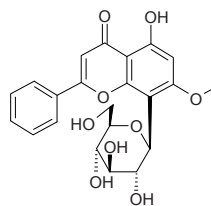
$C_{25}H_{30}O_5$ (410.51). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*.
Ref: 2431.

**12156 Kanzonol Z**

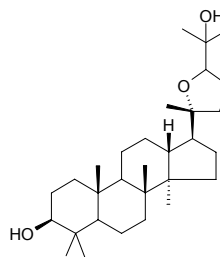
$C_{25}H_{26}O_5$ (406.48). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*.
Ref: 2431.

**12157 Kaplanin**

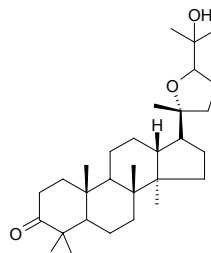
5-Hydroxy-7-methoxy-8-C- β -glucosylflavone $C_{22}H_{22}O_9$ (430.42). Yellow amorphous solid (CH_2Cl_2 -MeOH 20%). Source: *Piper lhotzkyanum* (leaf).
Ref: 5107.

**12158 Kapurool**

$C_{30}H_{52}O_3$ (460.75). Source: LONG NAO GAO XIANG *Dryobalanops aromatica*. Ref: 660.

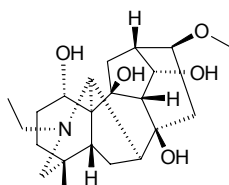
**12159 Kapurone**

$C_{30}H_{50}O_3$ (458.73). Source: LONG NAO GAO XIANG *Dryobalanops aromatica*. Ref: 660.

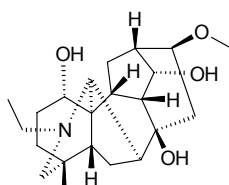


12160 Karacolidine

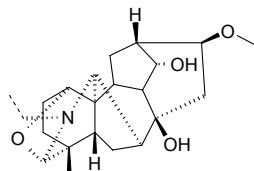
[41655-13-4] $C_{22}H_{35}NO_5$ (393.53). Source: DUO GEN WU TOU *Aconitum karakolicum*. Ref: 6, 660.

**12161 Karacoline**

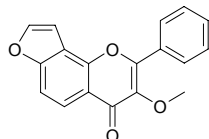
[39089-30-0] $C_{22}H_{35}NO_4$ (377.53). Source: WU TOU *Aconitum carmichaeli*, FU ZI *Aconitum carmichaeli*. Ref: 6, 239, 660.

**12162 Karakanine**

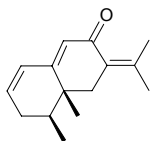
$C_{22}H_{33}NO_4$ (375.51). White needles, mp 193~195°C. Source: ZHONG BA E ZHANG YE FU ZI *Aconitum carmichaeli* cv. Ref: 2502.

**12163 Karanjin**

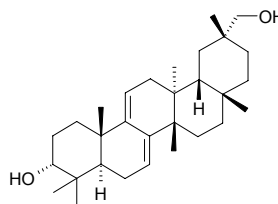
[521-88-0] $C_{18}H_{12}O_4$ (292.29). mp 158.5°C. Pharm: Antibacterial (*Mycobacterium tuberculosis*). Source: GAN HUA DOU *Fordia cauliflora* (root: content scope of 11 origins = 0.12%~1.48%, mean content = 0.48%)^[5508], SHUI LIU DOU *Pongamia pinnata*, MO LI YU TENG *Derris mollis*. Ref: 6, 658, 5508.

**12164 (+)-Karanone**

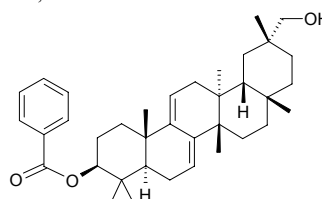
$C_{15}H_{20}O$ (216.33). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**12165 Karoundiol**

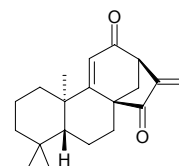
[118117-31-0] $C_{30}H_{48}O_2$ (440.72). mp 201~203°C. Pharm: Inhibits promotor of cancer (mus, inflammation caused by TPA, $ID_{50} = 0.4\text{mg/ear}$; mus skin cancer caused by DMBA and TPA). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 2, 933, 998, 1041.

**12166 Karoundiol 3-benzoate**

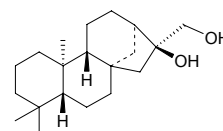
Karoundiol 3-*O*-benzoate [118117-32-1] $C_{37}H_{52}O_3$ (544.82). mp 119~122°C. Pharm: Inhibits promotor of cancer (mus, inflammation caused by TPA of $1\mu\text{g/ear}$, $ID_{50} = 0.2\text{mg/ear}$). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 933, 1041.

**12167 ent-9(11),16-Kauradiene-12,15-dione**

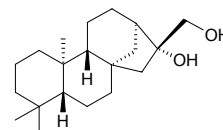
$C_{20}H_{26}O_2$ (298.43). mp 114~116°C, $[\alpha]_D^{20} = +386.6^\circ$ ($c = 0.41$, CHCl_3). Pharm: Cytotoxic (hmn leukemia cell line HL-60, $IC_{50} = 0.59\mu\text{mol/L}$). Source: XIN XI LAN YE TAI *Jungermannia* sp. Ref: 4390.

**12168 ent-Kauran-16α,17-diol**

[84711-16-0] $C_{20}H_{34}O_2$ (306.49). mp 174.0~176.5°C, $[\alpha]_D^{25} = -45.9^\circ$ ($c = 0.18$, CHCl_3). Source: HU BEI BEI MU *Fritillaria hupehensis*, ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2182.

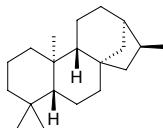
**12169 ent-Kauran-16β,17-diol**

[16836-31-0] $C_{20}H_{34}O_2$ (306.49). mp 187~190°C, $[\alpha]_D^{25} = -48.2^\circ$ ($c = 0.23$, CHCl_3). Source: HU BEI BEI MU *Fritillaria hupehensis*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2182.

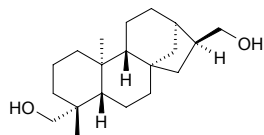


12170 Kaurane

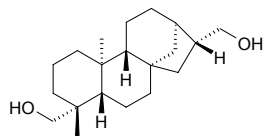
$C_{20}H_{34}$ (274.49). **Pharm:** Anti-inflammatory (NO production inhibitor)^[4415]. **Source:** SAN JIAO MA DOU LING *Aristolochia triangularis*. **Ref:** 1521, 4415.

**12171 16 α H-17,19-ent-Kauranediol**

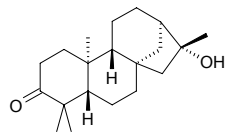
$C_{20}H_{34}O_2$ (306.49). **Pharm:** Antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 12.8\mu\text{g/mL}$; K562, $GI_{50} = 13.6\mu\text{g/mL}$; HeLa, $CC_{50} = 35.7\mu\text{g/mL}$; control Paclitaxel, L-929, $GI_{50} = 0.1\mu\text{g/mL}$; K562, $GI_{50} = 0.01\mu\text{g/mL}$; HeLa, $CC_{50} = 0.01\mu\text{g/mL}$). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00011%). **Ref:** 4770.

**12172 16 β H-17,19-ent-Kauranediol**

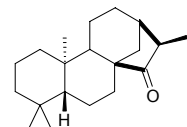
[74365-75-6] $C_{20}H_{34}O_2$ (306.49). **Source:** SI MIAN MAO JIA MI YE ZE LAN *Eupatorium tinifolium* **Ref:** 1521.

**12173 ent-Kauran-16 β -ol-3-one**

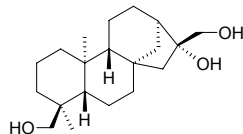
$C_{20}H_{32}O_2$ (304.48). Colorless needles (MeOH), mp 155–160°C, $[\alpha]_D^{25} = -65.2^\circ$ ($c = 0.32$, CHCl_3). **Source:** HAI QI *Excoecaria agallocha* (root: yield = 0.00063%dw). **Ref:** 4613.

**12174 (16R)-ent-Kauran-15-one**

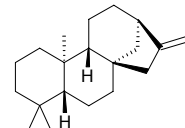
$C_{20}H_{32}O$ (288.48). **Source:** JIE XING YE TAI *Jungermannia truncata*. **Ref:** 4201.

**12175 ent-Kauran-16 β ,17,18-triol**

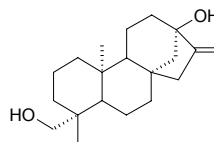
$C_{20}H_{34}O_3$ (322.49). **Source:** XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. **Ref:** 660.

**12176 Kaurene**

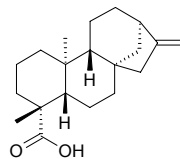
Podocarpene $C_{20}H_{32}$ (272.48). mp (+) 49°C, (–) 50°C, (±) 44–47°C. **Source:** LUO HAN SONG YE *Podocarpus macrophyllus*, LIU SHAN *Cryptomeria fortunei*. **Ref:** 6.

**12177 16-ent-Kaurene-13,19-diol**

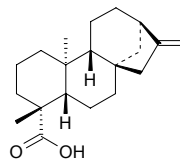
$C_{20}H_{32}O_2$ (304.48). **Pharm:** Antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 50\mu\text{g/mL}$; K562, $GI_{50} = 50\mu\text{g/mL}$; HeLa, $CC_{50} = 50\mu\text{g/mL}$; control Paclitaxel, L-929, $GI_{50} = 0.1\mu\text{g/mL}$; K562, $GI_{50} = 0.01\mu\text{g/mL}$; HeLa, $CC_{50} = 0.01\mu\text{g/mL}$). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00012%). **Ref:** 4770.

**12178 L-Kaur-16-en-19-oic acid**

Kaurenoic acid; Cunabic acid [6730-83-2] $C_{20}H_{30}O_2$ (302.46). Colorless crystals, mp 171–172°C, $[\alpha]_D^{20} = -109.6^\circ$ ($c = 1.0$, CHCl_3); mp 179–181°C; white cubic crystals, mp 176–178 °C, $[\alpha]_D^{25} = -97.0^\circ$ ($c = 0.55$, CHCl_3). **Pharm:** Platelet aggregation selected inhibitor (washed rabbit platelets, 200 $\mu\text{mol/L}$: 100 $\mu\text{mol/L}$ AA induced, InRt = 24.8%; 10 $\mu\text{g/mL}$ collagen induced, InRt = 100%; 1ng/mL PAF induced, InRt = 12.6%; 0.05U/mL thrombin induced, InRt = 5.6%)^[4654]; antioxidant (inhibits superoxide anion generation, fMLP/CB, $IC_{50} = (96.28 \pm 4.32)\mu\text{g/mL}$, $p < 0.001$, control DPI, $IC_{50} = (0.13 \pm 0.06)\mu\text{g/mL}$, $p < 0.001$)^[4950]; COX-1 inhibitor (*in vitro*, $IC_{50} = 0.15\text{ mmol/L}$)^[4957]; Na^+ , K^+ -ATP inhibitor (crude enzyme Na^+ , K^+ -ATPase from rat brain, $IC_{50} = 22\mu\text{mol/L}$)^[5404]. **Source:** TU DANG GUI *Aralia cordata*, FAN LI ZHI *Annona squamosa* (stem: 2.00%fw)^[4654], CI SAN JIA *Acanthopanax trifoliatum* (stem cortex), GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root), GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. **Ref:** 6, 4654, 4950, 4957, 5037, 5404.

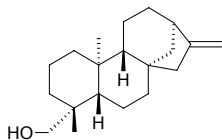
**12179 ent-Kaur-16-en-19-oic acid**

$C_{20}H_{30}O_2$ (302.46). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, $ED_{50} = 0.002\mu\text{g/mL}$, 0.003 $\mu\text{g/mL}$, 0.0005 $\mu\text{g/mL}$, 0.001 $\mu\text{g/mL}$, 0.004 $\mu\text{g/mL}$, 0.008 $\mu\text{g/mL}$, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.

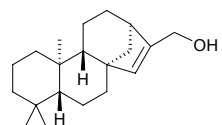


12180 (-)-Kaur-16-en-19-ol

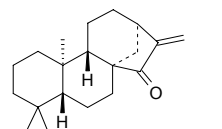
16-*ent*-Kaur-19-ol C₂₀H₃₂O (288.48). White solid, mp 133~134°C, [α]_D²⁰ = -51.6° (*c* = 1.0, CHCl₃). **Pharm:** Antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 18.2µg/mL; K562, GI₅₀ = 6.80µg/mL; HeLa, CC₅₀ = 32.8µg/mL; control Paclitaxel, L-929, GI₅₀ = 0.1µg/mL; K562, GI₅₀ = 0.01µg/mL; HeLa, CC₅₀ = 0.01µg/mL)^[4770]; Na⁺,K⁺-ATP inhibitor (crude enzyme Na⁺,K⁺-ATPase from rat brain, IC₅₀ = 500µmol/L)^[5404]. **Source:** GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (semi-synthetic derivative), MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00016%). **Ref:** 4770, 5404.

**12181 ent-Kaur-15-en-17-ol**

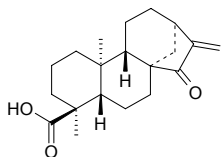
[14696-33-4] C₂₀H₃₂O (288.48). mp 136~137°C. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 660, 2182.

**12182 ent-16-Kauren-15-one**

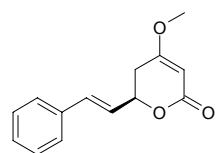
C₂₀H₃₀O (286.46). **Source:** JIE XING YE TAI *Jungmannia truncata*. **Ref:** 4201.

**12183 ent-Kaur-16-en-15-one 18-oic acid**

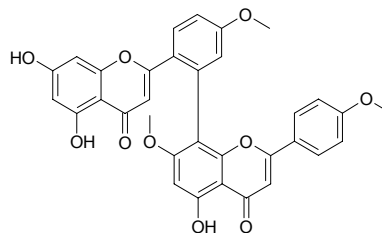
C₂₀H₂₈O₃ (316.44). **Source:** DONG JIN BA DOU *Croton tonkinensis* (leaf). **Ref:** 4444.

**12184 Kawain**

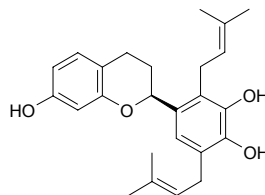
[500-64-1] C₁₄H₁₄O₃ (230.27). **Pharm:** Antifungal; anti-inflammatory; antispasmodic; detumescent; local anesthetic. **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 658.

**12185 Kayaflavone**

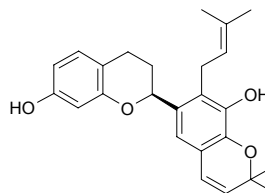
[481-45-8] C₃₃H₂₄O₁₀ (580.55). mp 335°C (dec). **Source:** LIU SHAN *Cryptomeria fortunei*. **Ref:** 6.

**12186 Kazinol A**

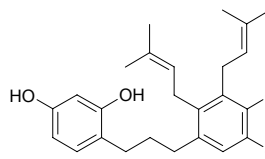
C₂₅H₃₀O₄ (394.52). **Source:** GOU SHU BAI PI *Broussonetia papyrifera*. **Ref:** 660.

**12187 Kazinol B**

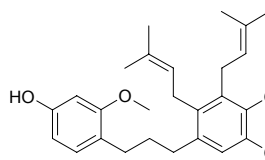
C₂₅H₂₈O₄ (392.50). **Source:** GOU SHU BAI PI *Broussonetia papyrifera*. **Ref:** 660.

**12188 Kazinol F**

C₂₅H₃₂O₄ (396.53). Colorless needles, mp 108~109°C. **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ > 10µg/mL; HCT8, ED₅₀ > 10µg/mL; KB, ED₅₀ > 10µg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

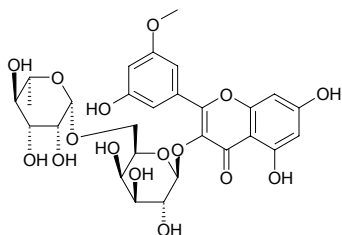
**12189 Kazinol J**

C₂₆H₃₄O₄ (410.56). Colorless needles. **Pharm:** Cytotoxic (*in vitro*, MTT Method, A549, ED₅₀ > 10µg/mL; HCT8, ED₅₀ > 10µg/mL; KB, ED₅₀ > 10µg/mL). **Source:** XIAO GOU SHU *Broussonetia kazinoki* (leaf). **Ref:** 3085.

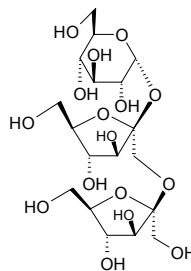


12190 Keioside

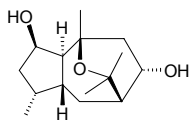
[53584-69-3] C₂₈H₃₂O₁₆ (624.56). mp 183~186°C. Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**12195 1-Kestose**

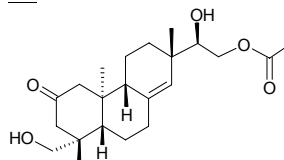
[470-69-9] C₁₈H₃₂O₁₆ (504.45). Source: GE CONG *Allium victorialis*. Ref: 6.

**12191 Kessoglycol**

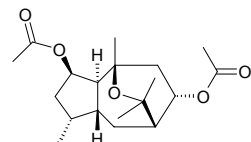
[6894-57-1] C₁₅H₂₆O₃ (254.37). mp 128°C. Source: KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. Ref: 6.

**12196 2-Keto-16-acetyl-kirenol**

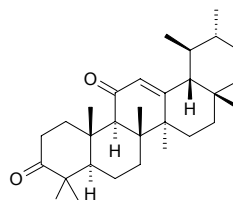
C₂₂H₃₄O₅ (378.51). White crystals, mp 223~224°C. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 800.

**12192 Kessoglycol diacetate**

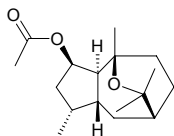
C₁₉H₃₀O₅ (338.45). mp 117°C. Source: KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. Ref: 6.

**12197 11-Keto-α-amyrenone**

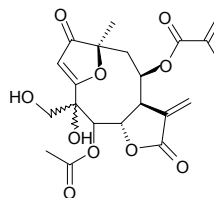
C₃₀H₄₆O₂ (438.70). Source: RU XIANG *Boswellia carterii*. Ref: 660.

**12193 Kessyl acetate**

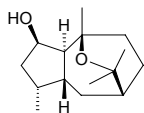
C₁₇H₂₈O₃ (280.41). mp 60~61°C. Source: KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. Ref: 6.

**12198 1-Keto-3,10-epoxy-8β-O-methacryloyl-4,15-dihydroxy-5-acetoxy-2,11-germacradiene,6α,12-olide**

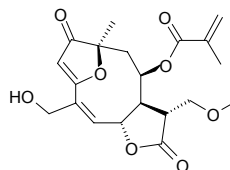
C₂₁H₂₄O₁₀ (436.42). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 5090.

**12194 Kessyl alcohol**

[3321-65-1] C₁₅H₂₆O₂ (238.37). mp 85°C. Source: KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. Ref: 6.

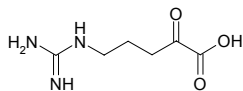
**12199 1-Keto-3,10-epoxy-11α-methoxymethyl-8β-O-methacryloyl-15-hydroxy-2,4-germacradiene,6α,12-olide**

C₂₀H₂₄O₈ (392.41). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 5090.

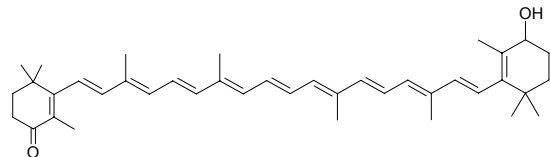


12200 α -Keto- δ -guanidino-valeric acid

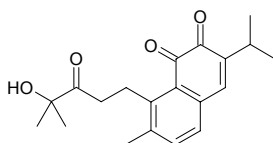
[3715-10-4] C₆H₁₁N₃O₃ (173.17). Source: XI SHUAI *Gryllulus chinensis*. Ref: 6.

**12201 4-Keto-4'-hydroxy- β -carotene**

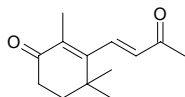
C₄₀H₅₄O₂ (566.88). Source: JIN YU *Carassius auratus*. Ref: 6.

**12202 3-Keto-4-hydroxysaprorthoquinone**

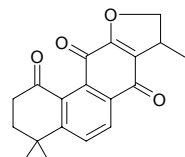
C₂₀H₂₄O₄ (328.41). Red syrup. Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 4.6 μ mol/L; SGC7901, IC₅₀ = 0.2 μ mol/L; MKN28, IC₅₀ = 0.3 μ mol/L). Source: HONG GEN CAO *Salvia prionitis* (root: yield = 0.00030%dw). Ref: 4635.

**12203 3-Keto- β -ionone**

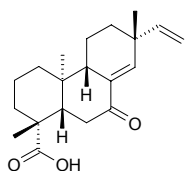
C₁₃H₁₈O₂ (206.29). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

**12204 1-Keto-isocryptotanshinone**

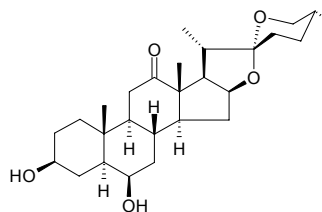
C₁₉H₁₈O₄ (310.35). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 660.

**12205 7-Keto-L-pimara-8(14),15-dien-19-oic acid**

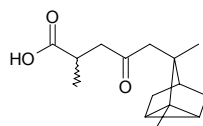
C₂₀H₂₈O₃ (316.44). mp 241–245°C. Source: TU DANG GUI *Aralia cordata*. Ref: 6.

**12206 12-Ketoporrigenin**

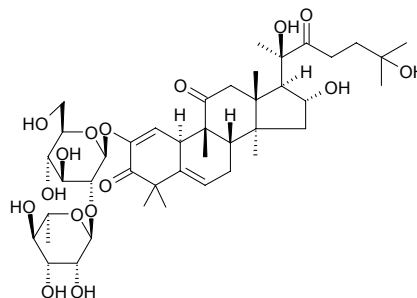
C₂₇H₄₂O₅ (426.63). Pharm: Cytotoxic (inhibits cancer cell proliferation, *in vitro*). Source: JIU CONG *Allium porrum*. Ref: 2165.

**12207 Ketosantallic acid**

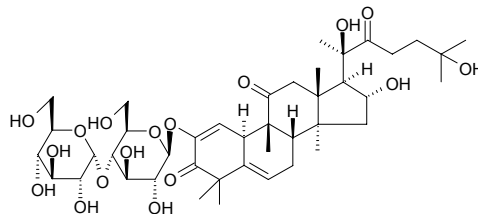
C₁₅H₂₂O₃ (250.34). Source: TAN XIANG *Santalum album*. Ref: 660.

**12208 Khekadaengoside A**

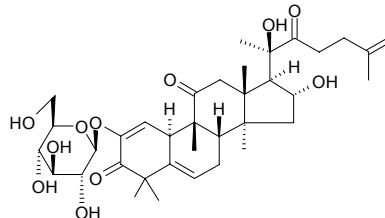
Cucurbitacin L 2-*O*- α -rhamnopyranosyl-(1 \rightarrow 2)- β -glucopyranoside C₄₂H₆₄O₁₆ (824.97). Amorphous powder, [α]_D²³ = -109.4° (*c* = 3.1, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12209 Khekadaengoside B**

Cucurbitacin L 2-*O*- α -glucopyranosyl-(1 \rightarrow 4)- β -glucopyranoside C₄₂H₆₄O₁₇ (840.97). Amorphous powder, [α]_D²³ = -37.0° (*c* = 2.7, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12210 Khekadaengoside C**

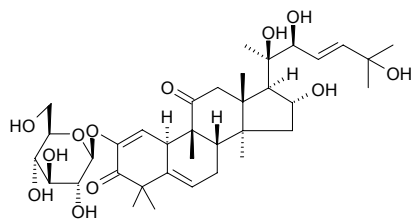
C₃₆H₅₂O₁₁ (660.81). Amorphous powder, [α]_D²³ = -42.3° (*c* = 4.9, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.



12211 Khekadaengoside D

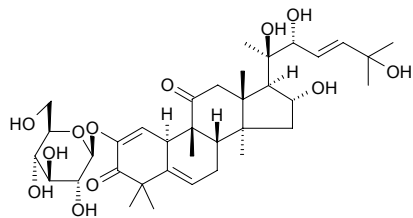
$C_{36}H_{54}O_{12}$ (678.82). Amorphous powder, $[\alpha]_D^{23} = -71.1^\circ$ ($c = 0.6$, MeOH).

Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12212 Khekadaengoside E**

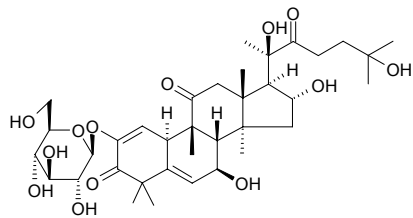
$C_{36}H_{54}O_{12}$ (678.82). Amorphous powder, $[\alpha]_D^{23} = -43.8^\circ$ ($c = 3.7$, MeOH).

Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12213 Khekadaengoside F**

$C_{36}H_{54}O_{13}$ (694.82). Amorphous powder, $[\alpha]_D^{23} = -12.7^\circ$ ($c = 0.8$, MeOH).

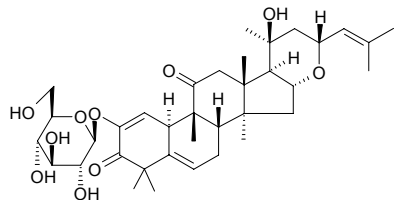
Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12214 Khekadaengoside G**

Aoibaclin;

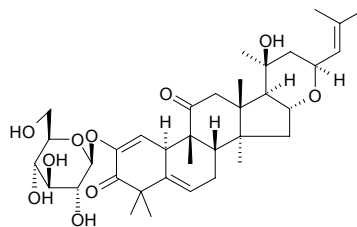
2,20(S)-dihydroxy-16 α ,23(R)-epoxycucurbita-5,24-diene-3,11-dione

2-O- β -glucopyranoside $C_{36}H_{52}O_{10}$ (644.81). Amorphous powder, $[\alpha]_D^{23} = -31.2^\circ$ ($c = 2.5$, MeOH); pale yellow amorphous solid, $[\alpha]_D = +3.5^\circ$ ($c = 0.78$, $CHCl_3$). Source: FENG GUA *Gymnopetalum integrifolium* (fruit), SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982, 4189.

**12215 Khekadaengoside H**

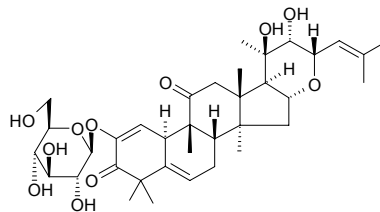
2,20(S)-dihydroxy-16 α ,23(S)-epoxycucurbita-5,24-diene-3,11-dione

2-O- β -glucopyranoside $C_{36}H_{52}O_{10}$ (644.81). Amorphous powder, $[\alpha]_D^{23} = +5.4^\circ$ ($c = 1.0$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12216 Khekadaengoside I**

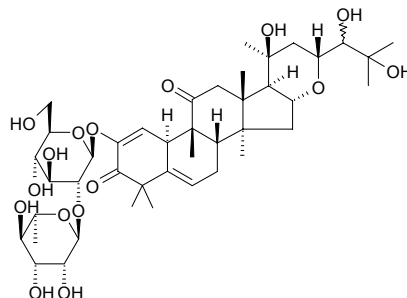
2,20(S),22-trihydroxy-16 α ,23(S)-epoxycucurbita-5,24-diene-3,11-dione

2-O- β -glucopyranoside $C_{36}H_{52}O_{11}$ (660.81). Amorphous powder, $[\alpha]_D^{23} = -10.5^\circ$ ($c = 0.5$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

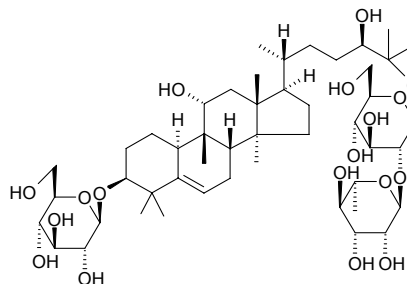
**12217 Khekadaengoside J**

2,20S,24 ζ -Trihydroxy-16 α ,23R-epoxycucurbita-5-ene-3,11-dione

2-O- α -rhamnopyranosyl-(1 \rightarrow 2)- β -glucopyranoside $C_{42}H_{64}O_{16}$ (824.97). Amorphous powder, $[\alpha]_D^{23} = -38.9^\circ$ ($c = 1.0$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

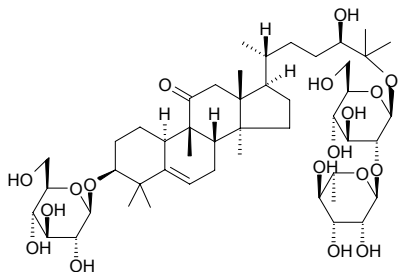
**12218 Khekadaengoside M**

Mogrol 3-O- β -glucopyranosyl-26-O- α -rhamnopyranosyl(1 \rightarrow 2)-O- β -glucopyranoside $C_{48}H_{82}O_{18}$ (947.18). Amorphous powder, $[\alpha]_D^{23} = +6.4^\circ$ ($c = 1.7$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

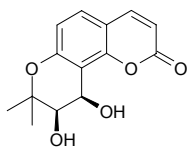


12219 Khekadaengoside N

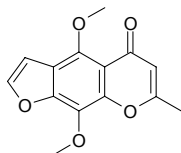
Bryodulcosigenin 3-*O*- β -glucopyranosyl-26-*O*- α -rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -glucopyranoside C₄₈H₈₀O₁₈ (945.16). Amorphous powder, $[\alpha]_D^{23} = +26.1^\circ$ ($c = 2.8$, MeOH). Source: SAN YING JIAN GUA LOU *Trichosanthes tricuspidata*. Ref: 1982.

**12220 Khellactone**

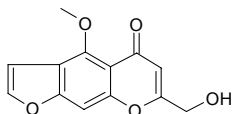
C₁₄H₁₄O₅ (262.26). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (36.9 \pm 1.2)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability >80), Curcumin, EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%), compound IC₅₀ = 341mol ratio/32 pmol TPA, β -Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA). Source: LI HUA JU *Citrus tachibana*. Ref: 5048.

**12221 Khellin**

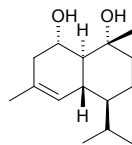
[82-02-0] C₁₄H₁₂O₅ (260.25). Crystals (methanol), bitter, mp 154–155°C, bp 180–200°C/0.05mmHg. Pharm: Anthelmintic; anti-phage (phage T4, phage M13); antispasmodic; phototoxic (virus); coronary vasodilator; LD₅₀ (rat, orl) = 80mg/kg. Source: CHI A MI *Ammi visnaga*. Ref: 661.

**12222 Khellol**

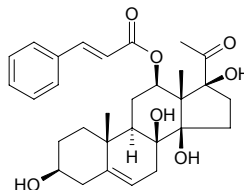
[478-79-5] C₁₃H₁₀O₅ (246.22). mp 176–178°C. Source: YE SHENG MA *Cimicifuga simplex*. Ref: 6.

**12223 Khusinodiol**

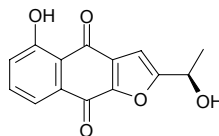
4-Cadinene-2 α ,10 α -diol C₁₅H₂₆O₂ (238.37). Source: TAI WAN SHAN *Taiwania cryptomerioides* (root). Ref: 4371.

**12224 Kidjolanin**

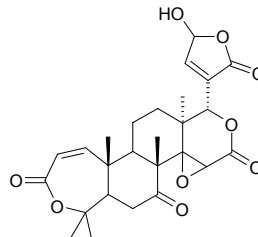
[38395-01-6] C₃₀H₃₈O₇ (510.63). mp 148–149°C. Source: BAI SHOU WU *Cynanchum bungei*. Ref: 6.

**12225 Kigelinone**

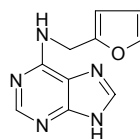
[80931-34-6] C₁₄H₁₀O₅ (270.25). Pharm: Cytotoxic. Source: DIAO DENG SHU *Kigelia pinnata*, PAO DAN GUO *Crescentia cujete*. Ref: 658.

**12226 Kihadanin B**

[73793-68-7] C₂₆H₃₀O₉ (486.52). White granular solid, soluble in hot acetone, mp 268–269°C. Source: BAI XIAN PI *Dictamnus dasycarpus*, HUANG BAI *Phellodendron amurense*. Ref: 1521, 4825.

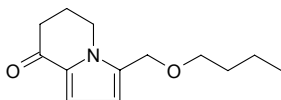
**12227 Kinetin**

6-Furfurylamino-purine C₁₀H₉N₅O (215.22). mp 266–267°C. Pharm: Plant growth regulator. Source: BAN LAN GEN *Isatis indigotica*. Ref: 6, 658.

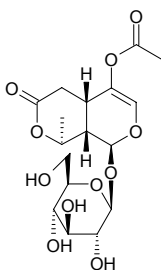


12228 Kinganone

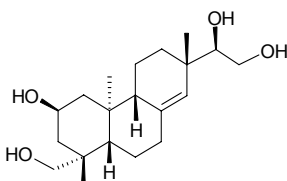
$C_{13}H_{19}NO_2$ (221.30). Yellow oil. **Pharm:** Antifungal (*Penicillium avellaneum* UC-4376, MIA = 100.0 μ g/disk, control Amphotericin B, MIA = 0.08 μ g/disk); antibacterial (*Staphylococcus aureus*, MIA = 300.0 μ g/disk, control Rifampicin, MIA = 1.0 μ g/disk; *Mycobacterium tuberculosis*, MIA = 200.0 μ g/disk, Rifampicin, MIA = 1.0 μ g/disk; *Streptococcus pneumoniae*, MIA = 200.0 μ g/disk, Rifampicin, MIA = 1.0 μ g/disk). **Source:** DIAN HUANG JING *Polygonatum kingianum* (dried rhizome). **Ref:** 5484.

**12229 Kingside**

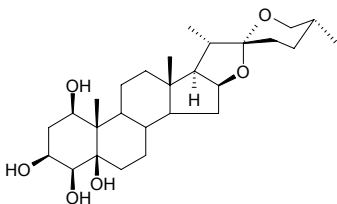
[25406-67-1] $C_{17}H_{24}O_{11}$ (404.37). $[\alpha]_D = -91^\circ$ ($c = 0.7$, ethanol); tetra-acetate, mp 165~166°C, $[\alpha]_D = -80^\circ$ ($c = 1$, chloroform). **Pharm:** Stomachic. **Source:** MO LUO SHI REN DONG *Lonicera morrowii* (the compound was separated from the plant by I. Souza et al. in 1969)^[5505]. **Ref:** 658, 5505.

**12230 Kirenol**

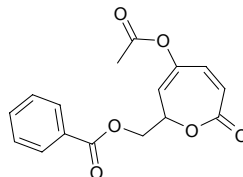
[52659-56-0] $C_{20}H_{34}O_4$ (338.49). mp 190~192°C. **Source:** XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00018%)^[4764]. **Ref:** 6, 377, 660, 4764.

**12231 Kitigenin**

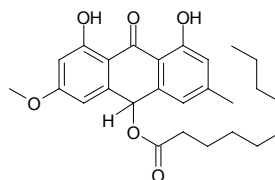
$C_{27}H_{44}O_6$ (464.65). **Source:** JI XIANG CAO *Reineckea carnea*. **Ref:** 660.

**12232 Klaivanolide**

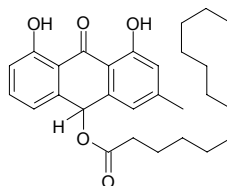
$C_{16}H_{14}O_6$ (302.29). Colorless powder. **Pharm:** Antileishmanial (*in vitro*, inhibits both sensitive and amphotericin B-resistant promastigote formation of *Leishmania donovani*, $IC_{50} = 1.75$ mmol/L and 3.12 mmol/L, respectively); antitrypanosomal (*in vitro*, inhibits trypomastigote formation of *Trypanosoma brucei brucei* GVR 35). **Source:** JIA PENG ZI YU PAN *Uvaria klaineana*. **Ref:** 2027.

**12233 Kleinioxanthrone 1**

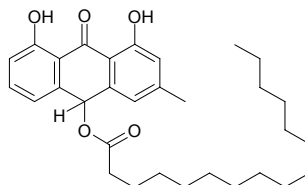
1,8-Dihydroxy-3-methyl-6-methoxy-9(10*H*)-anthracenone-10-oxydecanoate $C_{26}H_{32}O_6$ (440.54). $[\alpha]_D^{25} = -5.6^\circ$ ($c = 1.04$, $CHCl_3$). **Source:** KE LEI NI JUE MING *Cassia kleinii* (aerial parts). **Ref:** 5154.

**12234 Kleinioxanthrone 2**

1,8-Dihydroxy-3-methyl-9(10*H*)-anthracenone-10-oxytetradecanoate $C_{29}H_{38}O_5$ (466.62). $[\alpha]_D^{25} = -16^\circ$ ($c = 1.40$, $CHCl_3$). **Source:** KE LEI NI JUE MING *Cassia kleinii* (aerial parts). **Ref:** 5154.

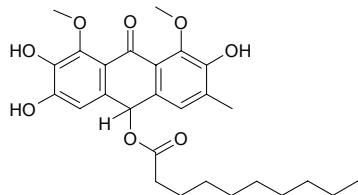
**12235 Kleinioxanthrone 3**

1,8-Dihydroxy-3-methyl-9(10*H*)-anthracenone-10-oxyhexadecanoate $C_{31}H_{42}O_5$ (494.68). Yellow needles (hexane), mp 177~178°C, $[\alpha]_D^{25} = -8^\circ$ ($c = 1.20$, $CHCl_3$). **Source:** KE LEI NI JUE MING *Cassia kleinii*. **Ref:** 1993.

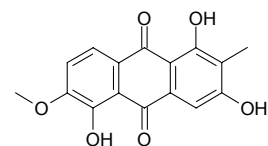


12236 Kleinioxanthrone 4

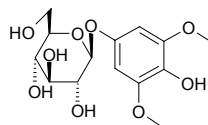
2,6,7-Trihydroxy-1,8-dimethoxy-3-methyl-9(10*H*)-anthracenone-10-oxydecanoate C₂₇H₃₄O₈ (486.57). Orangeneedles mp 196–198°C, $[\alpha]_D^{25} = -21.5^\circ$ ($c = 1.01$, CHCl₃). Source: KE LEI NI JUE MING *Cassia kleinii*. Ref: 1993.

**12237 Knoxiadin**

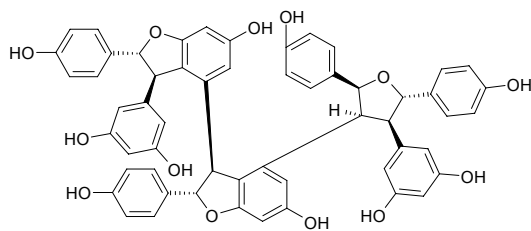
1,3,5-Trihydroxy-2-methyl-6-methoxyanthraquinone C₁₆H₁₂O₆ (300.27). Yellow acicular crystals, mp > 310°C. Source: HONG YA DA JI *Knoxia valerianoides*. Ref: 35.

**12238 Koaburaside**

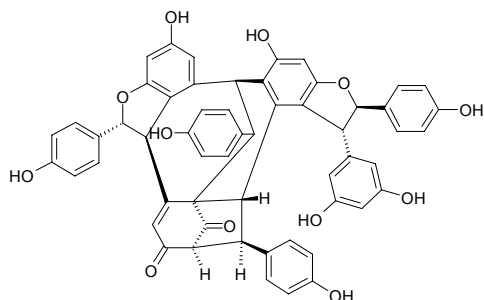
C₁₄H₂₀O₉ (332.31). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**12239 Kobophenol A**

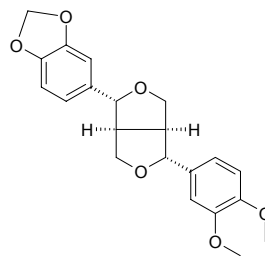
[124027-58-3] C₅₆H₄₄O₁₃ (924.97). Pale yellow oil or a morphous solid, mp 233.5–235°C (dec), $[\alpha]_D^{20} = +227^\circ$ ($c = 0.17$, MeOH). Source: SHA ZUAN TAI CAO *Carex kobomugi*, XIA YE JIN JI ER *Caragana stenophylla*. (root). Ref: 2557, 2558.

**12240 Kobophenol B**

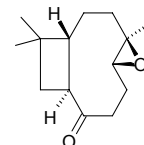
C₅₆H₄₀O₁₂ (904.94). Pale-yellow needles. Pharm: Ecdysteroid antagonist (*Drosophila melanogaster* B₁₁ cell line, IC₅₀ = 37 μmol/L). Source: XIA CHUI TAI CAO *Carex pendula* (seed). Ref: 5141.

**12241 Kobusin**

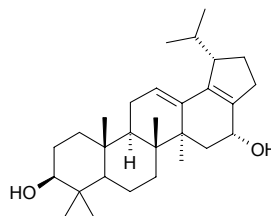
C₂₁H₂₂O₆ (370.41). Source: ZHOU YE MU LAN *Magnolia praecocissima* (seed). Ref: 4181.

**12242 Kobusone**

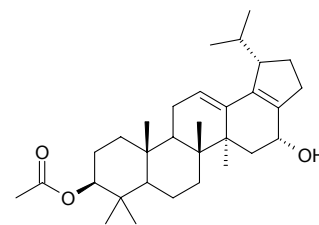
[24173-71-5] C₁₄H₂₂O₂ (222.33). Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**12243 Koelpinin A**

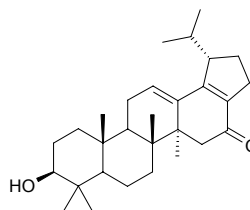
28-Nor-lup-12,17-dien-3β,16α-diol C₂₉H₄₆O₂ (426.69). mp 235–237°C (MeOH-C₆H₆), $[\alpha]_D^{25} = +21.2^\circ$. Source: XIE WEI JU *Koelpinia linearis* (aerial parts). Ref: 3912.

**12244 Koelpinin B**

3β-Acetoxy-28-nor-lup-12,17-dien-16α-ol C₃₁H₄₈O₃ (468.73). mp 222–223°C, $[\alpha]_D^{25} = +13.8^\circ$. Source: XIE WEI JU *Koelpinia linearis* (aerial parts). Ref: 3912.

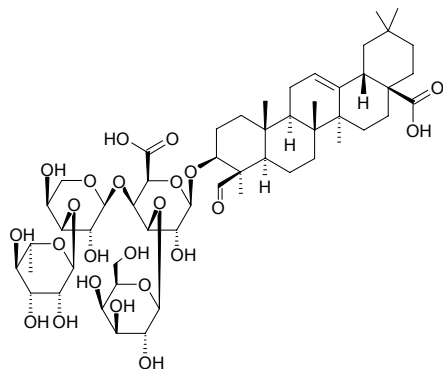
**12245 Koelpinin C**

28-Nor-lup-12,17-dien-3β-ol-16-one C₂₉H₄₄O₂ (424.67). mp 208–209°C (C₆H₆-MeOH), $[\alpha]_D^{25} = +6.5^\circ$. Source: XIE WEI JU *Koelpinia linearis* (aerial parts). Ref: 3912.

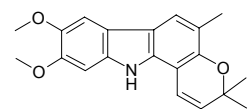


12246 Koelreuteriasaponin B

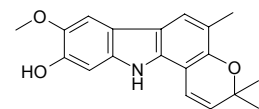
$C_{53}H_{82}O_{23}$ (1087.23). Source: LUAN HUA *Koelreuteria paniculata*. Ref: 6.

**12247 Koenigicine**

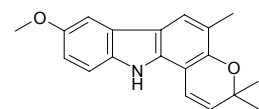
Koenidine [24123-92-0] $C_{20}H_{21}NO_3$ (323.4). Source: YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11.

**12248 Koenigine**

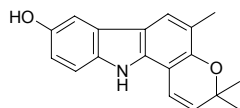
[28513-33-9] $C_{19}H_{19}NO_3$ (309.37). Source: YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11, 4681.

**12249 Koenimbine**

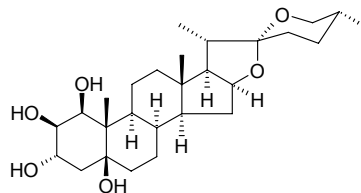
[21087-98-9] $C_{19}H_{19}NO_2$ (293.37). Source: YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11.

**12250 Koenine**

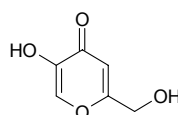
[28200-63-7] $C_{18}H_{17}NO_2$ (279.34). Source: YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11.

**12251 Kogagenin**

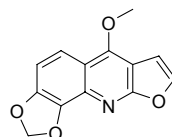
Spirostan-1,2,3,5-tetrol [639-93-0] $C_{27}H_{44}O_6$ (464.65). mp 318~322°C (dec). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

**12252 Kojic acid**

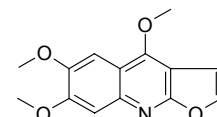
[501-30-4] $C_6H_6O_4$ (142.11). mp 152°C. Pharm: Tyrosinase inhibitor ($IC_{50} = 235.2 \mu\text{mol/L}$; $IC_{50} = (16.67 \pm 0.52) \mu\text{mol/L}$; $IC_{50} = 7.7 \mu\text{mol/L}$; $IC_{50} = 11.3 \mu\text{mol/L}$ ^[5409]). Source: JIANG *Glycine max*. Ref: 6, 2544, 4233, 4457, 5409.

**12253 Kokusagine**

[482-32-6] $C_{13}H_9NO_4$ (243.22). mp 195~197°C. Pharm: NO production inhibitor inactive (RAW264.7 cells, LPS/IFN- γ -induced, $30 \mu\text{mol/L}$)^[4774]. Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.019%dw)^[4774]. Ref: 6, 4774.

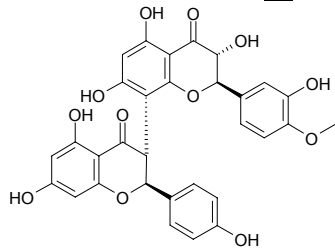
**12254 Kokusagineine**

[484-08-2] $C_{14}H_{13}NO_4$ (259.26). mp 171°C. Pharm: Increases level of arterenol and dopamine (murine cerebra); insect antifeedant; phototoxic (*Saccharomyces cerevisiae*, *Candida albicans*); photo-activated antibacterial (*Staphylococcus aureus*)^[4989]; photo-activated antifungal (*Candida albicans* weak)^[4989]; photo-activated DNA binding (16 restriction enzymes)^[4989]; cytotoxic (P₃₈₈ cell line, $ED_{50} = 12.0 \mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.06 \mu\text{g/mL}$; HT29, $ED_{50} = 16.8 \mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.07 \mu\text{g/mL}$; A549, $ED_{50} = 1.4 \mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.08 \mu\text{g/mL}$)^[5405]. Source: CHOU CAO *Ruta graveolens*, CHOU SHAN YANG *Orixa japonica*, SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*, *Orixa* sp., *Acronychia* sp., *Evodia* sp., *Haplophyllum* sp., *Melicope* sp., *Sarcomelicope glauca*. Ref: 6, 658, 4989, 5405.

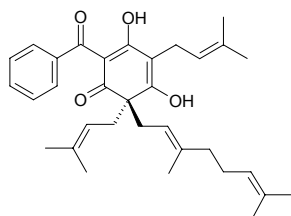


12255 Kolaflavanone

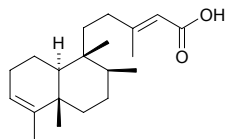
[68705-66-8] $C_{31}H_{24}O_{12}$ (588.53). **Pharm:** Anti-inflammatory; hypoglycemic (rat, caused by alloxan); reduces blood capillary brittleness. **Source:** KE LE TENG HUANG *Garcinia kola*. **Ref:** 658.

**12256 Kolanone**

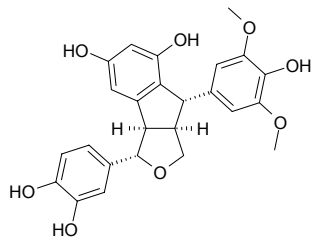
$C_{33}H_{42}O_4$ (502.70). **Pharm:** Antimicrobial (broad spectrum). **Source:** KE LE TENG HUANG *Garcinia kola*. **Ref:** 5386.

**12257 Kolavenic acid**

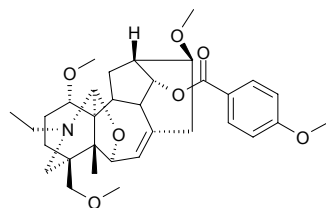
$C_{20}H_{32}O_2$ (304.48). **Source:** BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*. **Ref:** 5386.

**12258 Kompasinol A**

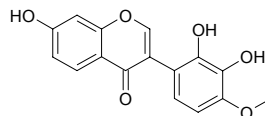
Maackolin [170663-51-1] $C_{25}H_{24}O_8$ (452.47). **Pharm:** Antioxidant (superoxide anion scavenger, $IC_{50} = (2.99 \pm 0.05) \mu\text{mol/L}$, control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$)^[4514]. **Source:** CHAO XIAN HUAI *Maackia amurensis*, MAO CI JIN JI ER *Caragana tibetica* (stem). **Ref:** 1521, 4514.

**12259 Kongboendine**

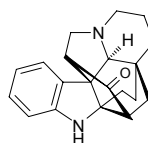
$C_{33}H_{45}NO_7$ (567.73). White amorphous powder, mp 68~70°C, $[\alpha]_D = -35^\circ$ ($c = 0.50$, $CHCl_3$). **Source:** GONG BU WU TOU *Aconitum kongboense*. **Ref:** 2207.

**12260 Koparin**

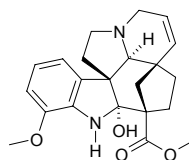
[65048-75-1] $C_{16}H_{12}O_6$ (300.27). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 716.

**12261 Kopsanone**

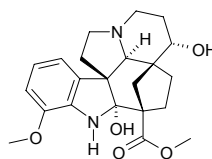
$C_{20}H_{22}N_2O$ (306.41). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

**12262 Kopsifoline A**

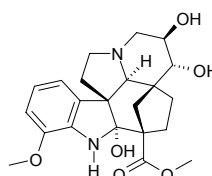
$C_{22}H_{26}N_2O_4$ (382.46). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

**12263 Kopsifoline B**

$C_{22}H_{28}N_2O_5$ (400.48). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

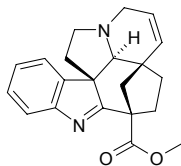
**12264 Kopsifoline C**

$C_{22}H_{28}N_2O_6$ (416.48). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

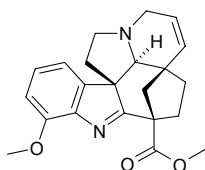


12265 Kopsifoline D

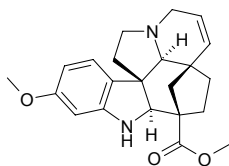
$C_{21}H_{22}N_2O_2$ (334.42). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf).
Ref: 3830.

**12266 Kopsifoline E**

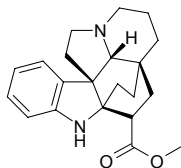
$C_{22}H_{24}N_2O_3$ (364.45). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf).
Ref: 3830.

**12267 Kopsifoline F**

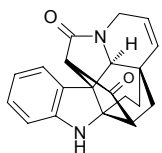
$C_{22}H_{26}N_2O_3$ (366.46). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf).
Ref: 3830.

**12268 Kopsinine**

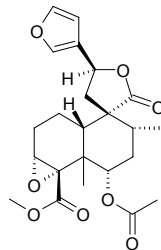
$C_{21}H_{26}N_2O_2$ (338.45). Source: CHANG HUA RUI MU *Kopsia longiflora*, CU SHENG HUA DUO GUO SHU *Pleiocarpa pycnantha* var. *tubicina*, DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], DUO GUO SHU *Pleiocarpa mutica*, DUO HUA BAI JIAN MU *Aspidosperma multiflorum*, HONG HUA RUI MU *Kopsia fruticosa* (leaf), LA BA ZHUANG DUO GUO SHU *Pleiocarpa tubicina*, SI YANG SHU YE BAI JIAN MU *Aspidosperma populifolium*, YIN DU YA JIAO SHU *Alstonia venenata*, ZHI LI CHANG CHUN HUA *Vinca erecta*, ZI LAN SHU *Hunteria zeylanica*, *Hunteria elliotii*.
Ref: 1521, 3830.

**12269 Kopsorinine**

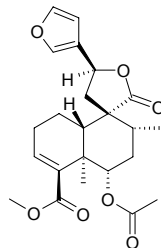
$C_{20}H_{18}N_2O_2$ (318.38). Light yellowish oil, $[\alpha]_D^{20} = +14^\circ$ ($c = 0.35$, $CHCl_3$).
Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

**12270 Korberin A**

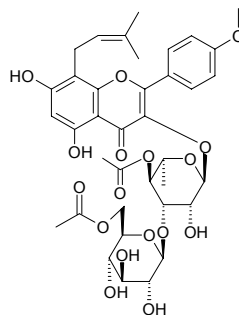
[152220-99-0] $C_{23}H_{28}O_8$ (432.47). Source: LAI KE BA DOU *Croton lechleri*. Ref: 4552.

**12271 Korberin B**

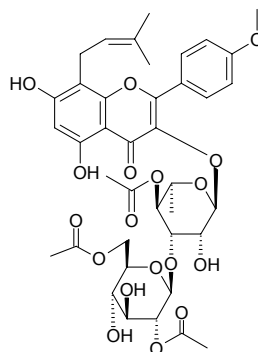
$C_{23}H_{28}O_7$ (416.48). Source: LAI KE BA DOU *Croton lechleri*. Ref: 4552.

**12272 Korepimedeside A**

Anhydroicaritin 3-*O*- β -D-(6-acetyl) glucopyranosyl-(1 \rightarrow 3)-*a*-L-(4-acetyl) rhamnopyranoside $C_{37}H_{44}O_{17}$ (760.75). Yellow powder, mp 170~171°C.
Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 361.

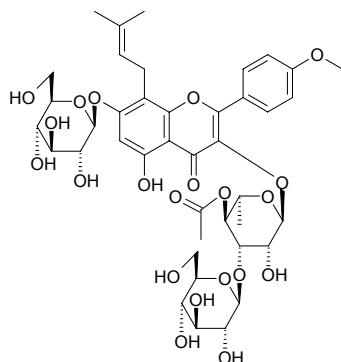
**12273 Korepimedeside B**

Anhydroicaritin 3-*O*- β -D-(2,6-diacetyl)glucopyranosyl-(1 \rightarrow 3)-*a*-L-(4-acetyl) rhamnopyranoside-7-*O*- β -D-glucopyranosyl $C_{39}H_{46}O_{18}$ (802.79). Yellow powder, mp 170~171°C. Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 361.

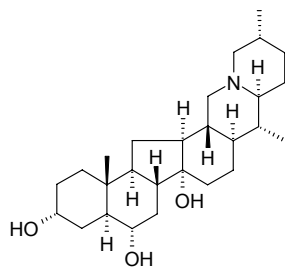


12274 Korpemedoside C

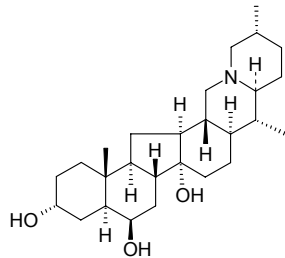
$C_{41}H_{52}O_{21}$ (880.86). Yellow powder. Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 417.

**12275 Korseveramine**

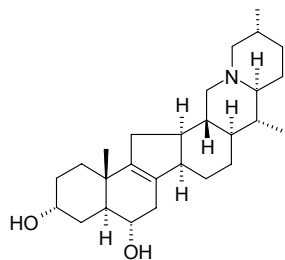
[30506-67-9] $C_{27}H_{45}NO_3$ (431.66). Source: CHUAN BEI MU *Fritillaria cirrhosa*. Ref: 6.

**12276 Korseveriline**

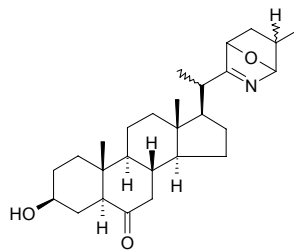
[21851-05-8] $C_{27}H_{45}NO_3$ (431.66). mp 240~242°C. Source: CHUAN BEI MU *Fritillaria cirrhosa*. Ref: 6.

**12277 Korseverinine**

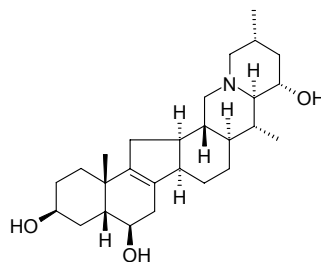
[36506-64-6] $C_{27}H_{43}NO_2$ (413.65). Source: CHUAN BEI MU *Fritillaria cirrhosa*. Ref: 6.

**12278 Korsevine**

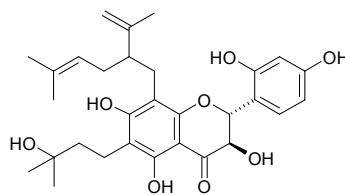
[27336-00-1] $C_{27}H_{41}NO_3$ (427.63). mp 224~245°C. Source: CHUAN BEI MU *Fritillaria cirrhosa*. Ref: 6.

**12279 Korsine**

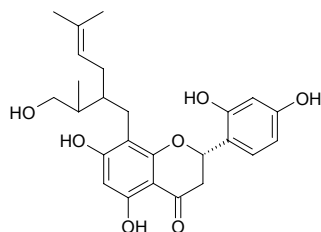
[20321-59-9] $C_{27}H_{43}NO_3$ (429.65). Source: CHUAN BEI MU *Fritillaria cirrhosa*. Ref: 6.

**12280 Kosamol A**

[182556-80-5] $C_{30}H_{38}O_8$ (526.63). Yellowish amorphous powder, $[\alpha]_D = +36^\circ$ ($c = 1.0$, methanol). Pharm: Phospholipase C_7 inhibitor ($IC_{50} = 10.2 \mu\text{mol/L}$); tyrosinase inhibitor ($IC_{50} = 36.9 \mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3 \mu\text{mol/L}$)^[5409]. Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 1135, 1156, 5409.

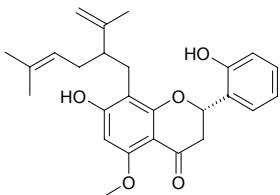
**12281 Kosamol Q**

$C_{25}H_{30}O_7$ (442.51). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

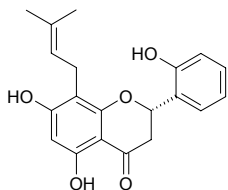


12282 Kosamol R

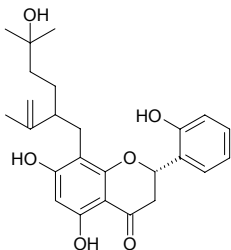
$C_{26}H_{30}O_5$ (422.53). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12283 Kosamol S**

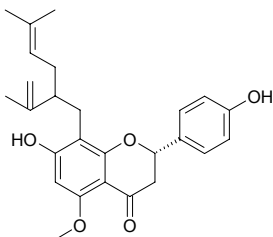
$C_{20}H_{20}O_5$ (340.38). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12284 Kosamol T**

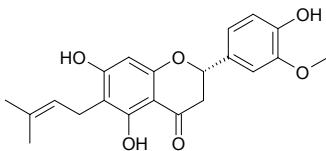
$C_{25}H_{30}O_6$ (426.51). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12285 Kosamol U**

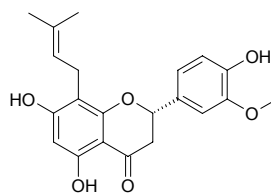
$C_{26}H_{30}O_5$ (422.53). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12286 Kosamol V**

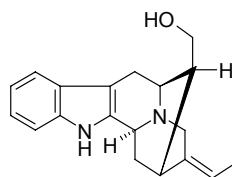
$C_{21}H_{22}O_6$ (370.41). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12287 Kosamol W**

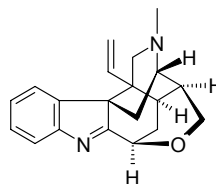
$C_{21}H_{22}O_6$ (370.41). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**12288 Koumidine**

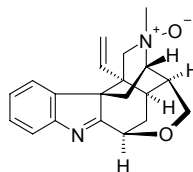
[1358-75-4] $C_{19}H_{22}N_2O$ (294.40). mp 200~201°C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**12289 Koumine**

(-)-Koumine [1358-76-5] $C_{20}H_{22}N_2O$ (306.41). mp 170°C, $[\alpha]_D = -254^\circ$. Source: GOU WEN *Gelsemium elegans*. Ref: 14, 1521.

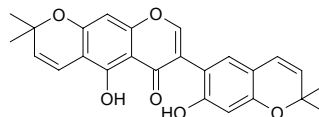
**12290 Koumine N-oxide**

$C_{20}H_{22}N_2O_2$ (322.41). mp 111~113°C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**12291 Kraussianone 1**

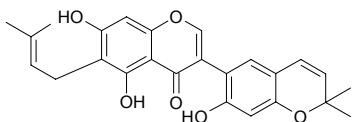
5,2'-Dihydroxy-[(6'',6''-dimethylpyrano(2'',3''-4',5'))[(6''',6'''-dimethylpyrano(2''',3''':7,6)]-isoflavone $C_{25}H_{22}O_6$ (418.45). Yellow crystals mp 185~187°C.

Pharm: Treatment of impotence (the erectile dysfunction test on rabbit penile smooth muscle, 78ng/mL, activity of 85% of that found in Viagra). Source: NAN FEI JI TOU SHU *Eriosema kraussianum*. Ref: 2034.

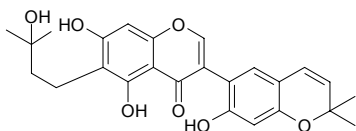


12292 Kraussianone 2

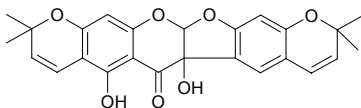
5,7,2'-Trihydroxy-6-(3,3-dimethylallyl)-[(6'',6''-dimethylpyrano(2'',3'':4',5'))]-isoflavone C₂₅H₂₄O₆ (420.47). White crystals, mp 162~168°C. **Pharm:** Treatment of impotence (the erectile dysfunction test on rabbit penile smooth muscle, 78ng/mL, activity of 65% of that found in Viagra). **Source:** NAN FEI JI TOU SHU *Eriosema kraussianum*. **Ref:** 2034.

**12293 Kraussianone 3**

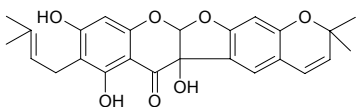
5,7,2'-Trihydroxy-6-(3-hydroxy-3-methylbutyl)-[(6'',6''-dimethylpyrano(2'',3'':4',5'))]-isoflavone C₂₅H₂₆O₇ (438.48). Orange yellow crystals, softening 156°C, melting 218~220°C. **Source:** NAN FEI JI TOU SHU *Eriosema kraussianum*. **Ref:** 2034.

**12294 Kraussianone 4**

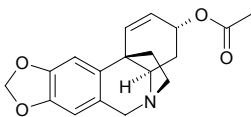
5b,7-Dihydroxy-2,2,10,10-tetramethyl-5b,13a-dihydro-2*H*,6*H*,10*H*-chromeno[6',7':4,5]furo[2,3-b]pyrano[3,2-g]chromene-6-one C₂₅H₂₂O₇ (434.45). Pale yellow oil. **Source:** NAN FEI JI TOU SHU *Eriosema kraussianum*. **Ref:** 2034.

**12295 Kraussianone 5**

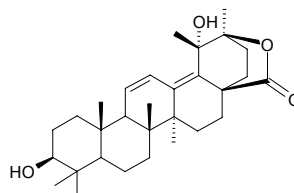
5b,7,9-Trihydroxy-2,2-dimethyl-8-(3-methyl-2-butenyl)-5b,11a-dihydro-2*H*,6*H*-chromeno[6',7':4,5]furo[2,3b]chromen-6-one C₂₅H₂₄O₇ (436.47). Oil. **Source:** NAN FEI JI TOU SHU *Eriosema kraussianum*. **Ref:** 2034.

**12296 Krepowine**

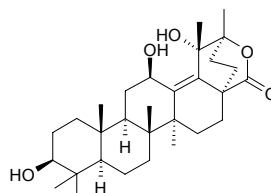
C₁₈H₁₉NO₄ (313.36). **Source:** GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). **Ref:** 4000.

**12297 α-Kudinlactone**

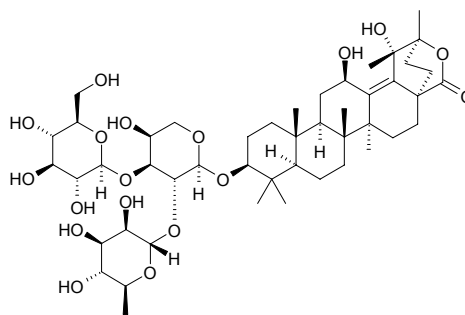
C₃₀H₄₄O₄ (468.68). **Source:** KU DING CHA DONG QING *Ilex kudingcha*. **Ref:** 5503.

**12298 β-Kudinlactone**

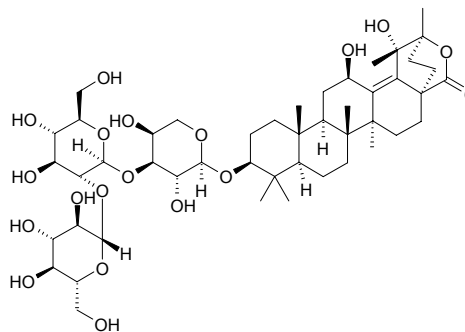
[173792-60-4] C₃₀H₄₆O₅ (486.70). **Source:** KU DING CHA DONG QING *Ilex kudingcha*. **Ref:** 5503.

**12299 Kudinoside A**

3-*O*-β-*D*-Glucopyranosyl-(1→3)-[α-*L*-rhamnopyranosyl-(1→2)]-α-*L*-arabino pyranosyl-β-kudinlactone [181362-75-4] C₄₇H₇₄O₁₈ (927.1). **Source:** KU DING CHA DONG QING *Ilex kudingcha*. **Ref:** 705.

**12300 Kudinoside B**

3-*O*-β-*D*-Glucopyranosyl-(1→2)-β-*D*-glucopyranosyl-(1→3)-α-*L*-arabino pyranosyl-β-kudinlactone [181362-76-5] C₄₇H₇₄O₁₉ (943.1). **Source:** KU DING CHA DONG QING *Ilex kudingcha*. **Ref:** 705.

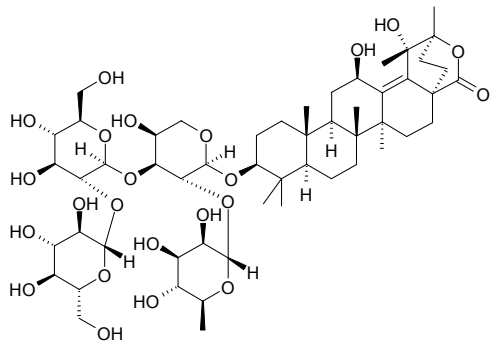


12301 Kudinoside C

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl- β -kudinlactone [181362-77-6]

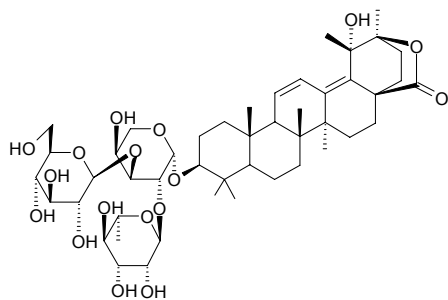
$C_{53}H_{84}O_{23}$ (1089.25). Source: KU DING CHA DONG QING *Ilex kudingcha*.

Ref: 705.

**12302 Kudinoside D**

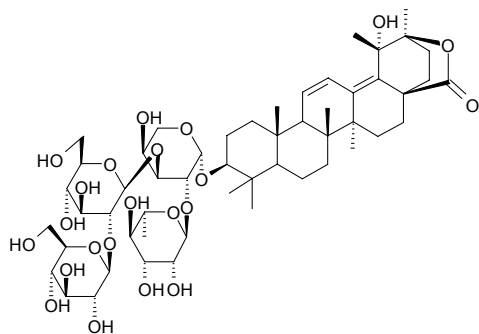
$C_{47}H_{72}O_{17}$ (909.09). Source: KU DING CHA DONG QING *Ilex kudingcha*.

Ref: 5503.

**12303 Kudinoside E**

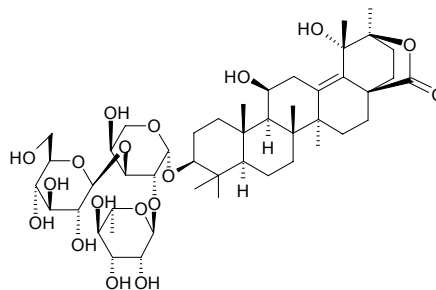
$C_{53}H_{82}O_{22}$ (1071.23). Source: KU DING CHA DONG QING *Ilex kudingcha*.

Ref: 5503.

**12304 Kudinoside F**

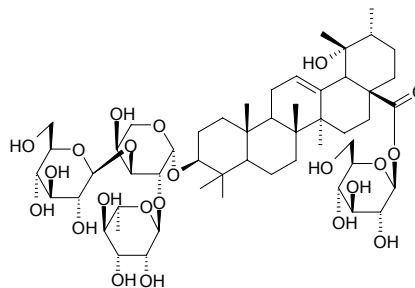
[173792-63-7] $C_{47}H_{74}O_{18}$ (927.10). Source: KU DING CHA DONG QING

Ilex kudingcha. Ref: 5503.

**12305 Kudinoside G**

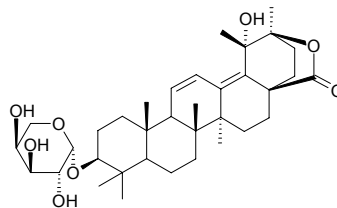
$C_{53}H_{86}O_{22}$ (1075.26). Source: KU DING CHA DONG QING *Ilex kudingcha*.

Ref: 5503.

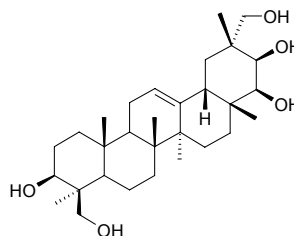
**12306 Kudinoside J**

$C_{35}H_{52}O_8$ (600.80). Source: KU DING CHA DONG QING *Ilex kudingcha*.

Ref: 5503.

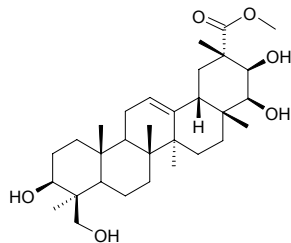
**12307 Kudzusapogenol A**

$C_{30}H_{50}O_5$ (490.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 660.

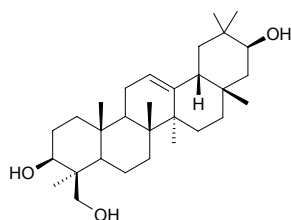


12308 Kudzusapogenol B methyl ester

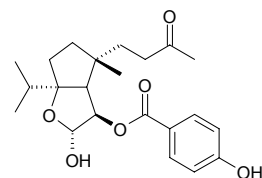
$C_{31}H_{50}O_6$ (518.74). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 660.

**12309 Kudzusapogenol C**

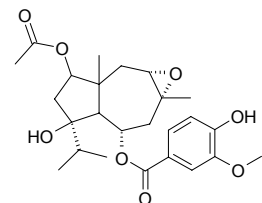
$C_{30}H_{50}O_3$ (458.73). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 660.

**12310 Kuhistaferone**

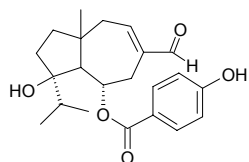
$C_{22}H_{30}O_6$ (390.48). Yellowish oil, $[\alpha]_D^{25} = +10.1^\circ$ ($c = 0.77$, MeOH). Pharm: Cytotoxic (*in vitro*, HCT116, $IC_{50} = 181 \mu\text{mol/L}$); antibacterial inactive (methicillin-resistant *Staphylococcus aureus* MRSA and methicillin-sensitive *Staphylococcus aureus* MSSA). Source: YI LANG A WEI *Ferula kuhistanica* (fruit: yield = 0.0016%dw). Ref: 4650.

**12311 Kuhistanicaol A**

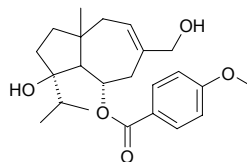
$C_{22}H_{34}O_8$ (462.54). Amorphous, $[\alpha]_D^{25} = +82.6^\circ$ ($c = 1.0$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**12312 Kuhistanicaol B**

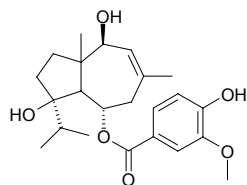
$C_{22}H_{28}O_5$ (372.47). Amorphous, $[\alpha]_D^{25} = +123.6^\circ$ ($c = 0.5$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**12313 Kuhistanicaol C**

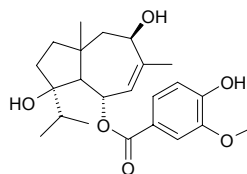
$C_{23}H_{32}O_5$ (388.51). Amorphous, $[\alpha]_D^{25} = +29.3^\circ$ ($c = 0.45$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**12314 Kuhistanicaol D**

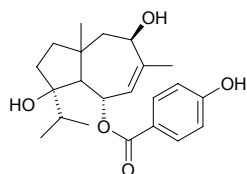
$C_{23}H_{32}O_6$ (404.51). Amorphous, $[\alpha]_D^{25} = -26.3^\circ$ ($c = 1.2$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**12315 Kuhistanicaol E**

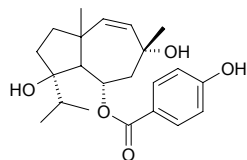
$C_{23}H_{32}O_6$ (404.51). Amorphous, $[\alpha]_D^{25} = +17.2^\circ$ ($c = 1.2$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

**12316 Kuhistanicaol F**

$C_{23}H_{32}O_5$ (388.51). Amorphous, $[\alpha]_D^{25} = +87.1^\circ$ ($c = 1.1$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

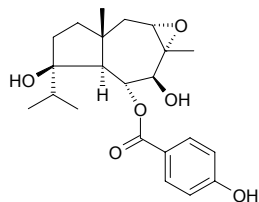
**12317 Kuhistanicaol G**

$C_{22}H_{30}O_5$ (374.48). Amorphous, $[\alpha]_D^{25} = -68.9^\circ$ ($c = 0.8$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

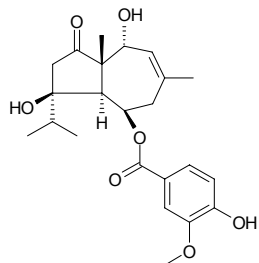


12318 Kuhistanicol H

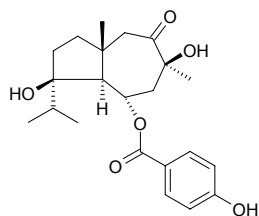
$C_{22}H_{30}O_6$ (390.48). $[\alpha]_D^{25} = +115.6^\circ$ ($c = 0.30$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (fruit). Ref: 5207.

**12319 Kuhistanicol I**

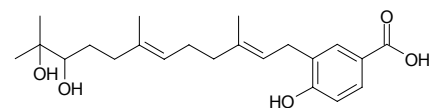
$C_{23}H_{30}O_7$ (418.49). $[\alpha]_D^{25} = +44.3^\circ$ ($c = 0.50$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (fruit). Ref: 5207.

**12320 Kuhistanicol J**

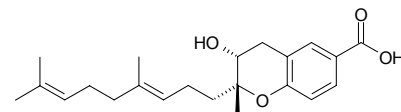
$C_{22}H_{30}O_6$ (390.48). $[\alpha]_D^{25} = +41.6^\circ$ ($c = 0.30$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (fruit). Ref: 5207.

**12321 Kuhistanol A**

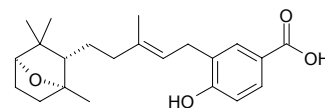
$C_{22}H_{32}O_5$ (376.50). Pharm: Antibacterial (MSSA, MIC = 63 μg/mL, control Ampicillin, MIC = 1 μg/mL; MRSA, MIC = 63 μg/mL, Ampicillin, MIC = 2 μg/mL; *Staphylococcus epidermidis* IFO 3762, MIC > 250 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Enterococcus faecalis* ATCC 21212, MIC > 250 μg/mL, Ampicillin, MIC = 1 μg/mL; *Bacillus subtilis* IFO 3134, MIC > 250 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Salmonella typhimurium* IFO 13245, MIC > 250 μg/mL, Ampicillin, MIC = 1 μg/mL; *Proteus mirabilis* IFO 3849, MIC > 250 μg/mL, Ampicillin, MIC = 2 μg/mL; *Escherichia coli* NIHJ JC-2, MIC > 250 μg/mL, Ampicillin, MIC = 4 μg/mL). Source: YI LANG A WEI *Ferula kuhistanica* (root and stem). Ref: 5207.

**12322 Kuhistanol D**

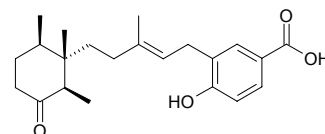
$C_{22}H_{30}O_4$ (358.48). Pharm: Antibacterial (MSSA, MIC = 31 μg/mL, control Ampicillin, MIC = 1 μg/mL; MRSA, MIC = 63 μg/mL, Ampicillin, MIC = 2 μg/mL; *Staphylococcus epidermidis* IFO 3762, MIC = 125 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Enterococcus faecalis* ATCC 21212, MIC = 125 μg/mL, Ampicillin, MIC = 1 μg/mL; *Bacillus subtilis* IFO 3134, MIC = 63 μg/mL, Ampicillin, MIC < 0.125 μg/mL; *Salmonella typhimurium* IFO 13245, MIC > 250 μg/mL, Ampicillin, MIC = 1 μg/mL; *Proteus mirabilis* IFO 3849, MIC > 250 μg/mL, Ampicillin, MIC = 2 μg/mL; *Escherichia coli* NIHJ JC-2, MIC > 250 μg/mL, Ampicillin, MIC = 4 μg/mL). Source: YI LANG A WEI *Ferula kuhistanica* (root and stem). Ref: 5207.

**12323 Kuhistanol E**

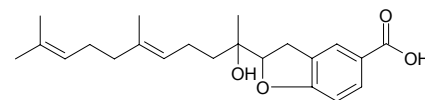
$C_{22}H_{30}O_4$ (358.48). $[\alpha]_D^{25} = 4.4^\circ$ ($c = 1.0$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3534.

**12324 Kuhistanol F**

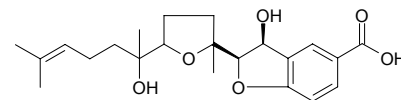
$C_{22}H_{30}O_4$ (358.48). $[\alpha]_D^{25} = 4.7^\circ$ ($c = 0.7$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3534.

**12325 Kuhistanol G**

$C_{22}H_{30}O_4$ (358.48). $[\alpha]_D^{25} = 0^\circ$ ($c = 0.8$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3534.

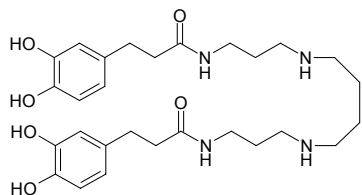
**12326 Kuhistanol H**

$C_{22}H_{30}O_6$ (390.48). $[\alpha]_D^{25} = 0^\circ$ ($c = 0.6$, MeOH). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3534.

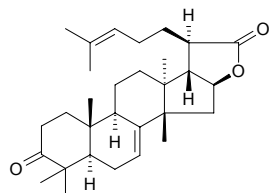


12327 Kukoamine A

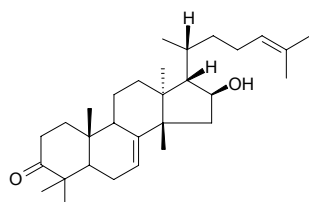
[75288-96-9] C₂₈H₄₂N₄O₆ (530.67). **Pharm:** Antihypertensive (rat, iv, 5mg/kg, strong action). **Source:** GOU QI GEN PI *Lycium chinense*. **Ref:** 2, 1700, 5501.

**12328 Kulactone**

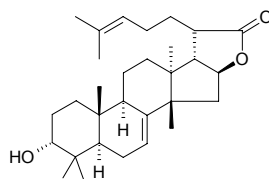
[22611-36-5] C₃₀H₄₄O₃ (452.68). mp 163.0~164.5°C. **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.

**12329 Kulinone**

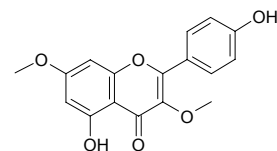
[21688-61-9] C₃₀H₄₈O₂ (440.72). mp 138°C. **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.

**12330 Kulolactone**

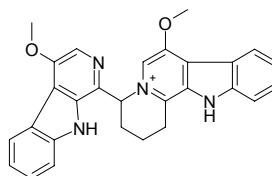
C₃₀H₄₆O₃ (454.70). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.

**12331 Kumatakenin**

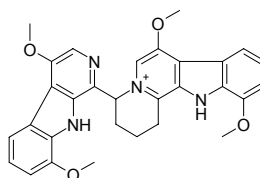
4',5-Dihydroxy-3,7-dimethoxyflavone [3301-49-3] C₁₇H₁₄O₆ (314.30). mp 246°C. **Source:** HUANG QI *Astragalus membranaceus*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00001%dw)^[4752], TU SHA REN *Alpinia japonica*, *Glycyrrhiza* sp. **Ref:** 2, 6, 2431, 4752.

**12332 Kumujansine A**

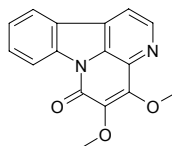
[116064-72-3] C₂₈H₂₅N₄O₂⁺ (449.54). Yellowish granular crystals, mp 249~250°C (dec). **Source:** KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 101.

**12333 Kumujansine B**

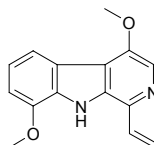
Picrasidine S [112503-87-4] C₃₀H₂₉N₄O₄⁺ (509.59). Yellowish granular crystals, mp 270°C (dec); yellowish acicular crystals (methanol), mp 215~217°C (dec). **Pharm:** cAMP phosphodiesterase inhibitor (*in vitro*, hydrochloride IC₅₀ = 30μmol/L). **Source:** KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 101, 1011, 1521.

**12334 Kumujian D**

Methylnigakinone; 4,5-Dimethoxycanthin-6-one C₁₆H₁₂N₂O₃ (280.29). Yellowish needle crystals, mp 148~149°C; mp 145~146°C. **Pharm:** Antibacterial (*in vitro*, *Diplococcus pneumoniae*, *Bacillus subtilis*, EC = 1mg/mL). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000011%dw)^[4728], KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (powder: content scope of 5 origins = 0.005%~0.167%, mean content = 0.053%^[5508]), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 6, 12, 658, 4728, 5501, 5508.

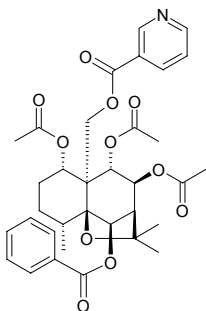
**12335 Kumujian G**

1-Vinyl-4,8-dimethoxy-β-carboline [65236-62-6] C₁₅H₁₄N₂O₂ (254.29). Yellowish prismatic crystals (methanol), mp 158~159°C. **Pharm:** Antibacterial (*Staphylococcus aureus* and its drug-resistant strain, *in vitro*). **Source:** KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (powder: content scope of 5 origins = 0.002%~0.033%, mean content = 0.016%^[5508]; content scope = 0.0%~2.72%^[5501]), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 12, 661, 5501, 5508.

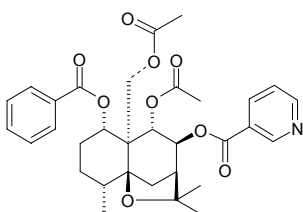


12336 Kupitengester 1

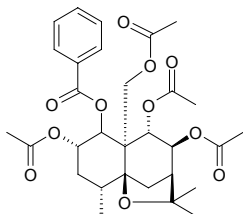
[135063-89-7] $C_{34}H_{39}NO_{11}$ (637.68). Rhombic crystals (petroleum ether–ethyl acetate), mp 238°C. **Pharm:** Insect antifeedant. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 1185, 1205.

**12337 Kupitengester 2**

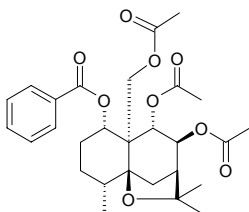
[149183-64-2] $C_{32}H_{37}NO_9$ (579.65). Rhombic crystals, mp 185–187°C. **Pharm:** Insect antifeedant. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 1205.

**12338 Kupitengester 3**

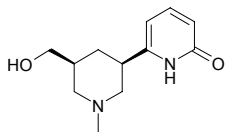
[149252-08-4] $C_{30}H_{38}O_{11}$ (574.62). Rhombic crystals, mp 224°C. **Pharm:** Insect antifeedant. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 1205.

**12339 Kupitengester 4**

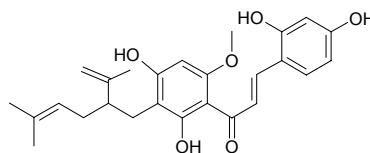
[132185-62-7] $C_{28}H_{36}O_9$ (516.59). Rhombic crystals, mp 214°C. **Pharm:** Insect antifeedant. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 1205.

**12340 Kuraramine**

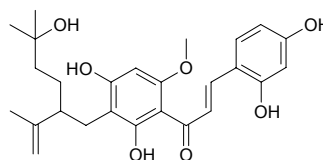
[In DNP] $C_{12}H_{18}N_2O_2$ (222.29). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**12341 Kuraridin**

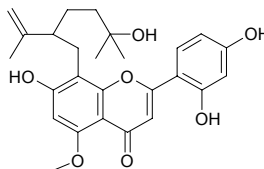
$C_{26}H_{30}O_6$ (438.53). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 0.6 \mu\text{mol/L}$)^[4430], tyrosinase inhibitor ($IC_{50} = 1.1 \mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3 \mu\text{mol/L}$)^[5409]; DGAT inhibitor (*in vitro*, $IC_{50} = 9.8 \mu\text{mol/L}$)^[4951]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 4430, 4951, 5409.

**12342 Kuraridinol**

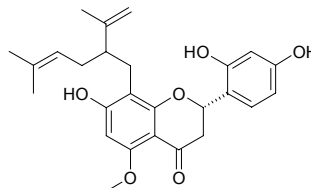
[52482-98-1] $C_{26}H_{32}O_7$ (456.54). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**12343 Kurarinol**

[52482-99-2] $C_{26}H_{30}O_7$ (454.52). **Pharm:** DGAT inhibitor (*in vitro*, $IC_{50} = 8.6 \mu\text{mol/L}$)^[4951]; tyrosinase inhibitor ($IC_{50} = 10.6 \mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3 \mu\text{mol/L}$)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 4951, 5409.

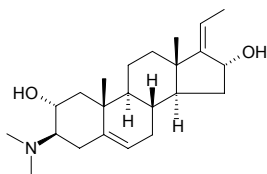
**12344 Kurarinone**

[34981-26-5] $C_{26}H_{30}O_6$ (438.53). **Pharm:** Estrogenic (yeast screen, $EC_{50} = 4.6 \mu\text{mol/L}$; Ishikawa Var-I assay, $EC_{50} = 1.66 \mu\text{mol/L}$)^[4776]; cytotoxic (*in vitro* sulforhodamine-B assay, MCF7/6, $IC_{50} = 22.2 \mu\text{mol/L}$)^[4776]; cAMP phosphodiesterase inhibitor ($IC_{50} = 25 \mu\text{mol/L}$); antifungal (various saprobic mold, 12.5 $\mu\text{g/mL}$, *Cladosporium cucumerinum* and *Candida albicans*, minimum dose on TLC chromatoplate = 5 μg); DGAT inhibitor (*in vitro*, $IC_{50} = 10.9 \mu\text{mol/L}$)^[4951]; tyrosinase inhibitor ($IC_{50} = 1.3 \mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3 \mu\text{mol/L}$)^[5409]. **Source:** QIN JIAO *Gentiana macrophylla*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]^[4776]. **Ref:** 707, 1007, 1333, 4776, 4951, 5409.

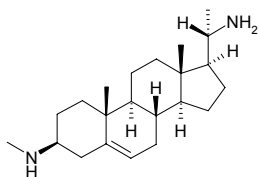


12345 Kurchaline

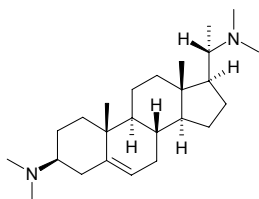
3-Aminopregna-5,17(20)-diene-2,16-diol [In DNP] $C_{23}H_{37}NO_2$ (359.56). mp 185°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**12346 Kurchamine**

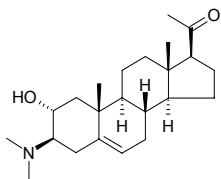
[3734-04-1] $C_{22}H_{38}N_2$ (330.56). mp 115~117°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 1521.

**12347 Kurchessine**

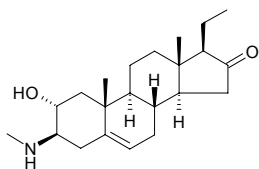
[6869-45-0] $C_{25}H_{44}N_2$ (372.64). mp 140~141°C. Pharm: Antiamebic (treatment of amebic dysentery). Source: DUAN ROU MAO ZHI XIE MU *Holarrhena pubescens*, ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 658.

**12348 Kurchiline**

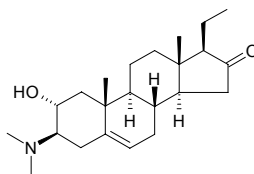
3β-Dimethylamino-2α-hydroxypregn-5-en-20-one [In DNP] $C_{23}H_{37}NO_2$ (359.56). Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**12349 Kurchiphyllamine**

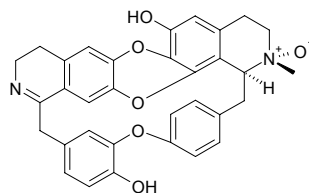
2α-Hydroxy-3β-methylaminopregn-5-en-16-one $C_{22}H_{35}NO_2$ (345.53). mp 161°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**12350 Kurchiphylline**

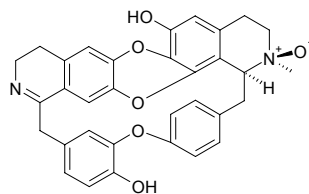
2α-Hydroxy-3β-dimethylaminopregn-5-en-16-one $C_{23}H_{37}NO_2$ (359.56). mp 184°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6.

**12351 Kurramine-2'-α-N-oxide**

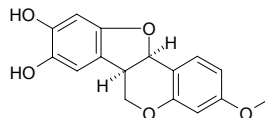
$C_{33}H_{28}N_2O_6$ (548.60). Yellow amorphous powder, $[\alpha]_D^{25} = +50^\circ$ ($c = 0.012$, MeOH). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = (150.0 \pm 2.5) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (0.5 \pm 0.001) \mu\text{mol/L}$). Source: CHUI MU FANG JI *Cocculus pendulus*. Ref: 4051.

**12352 Kurramine-2'-β-N-oxide**

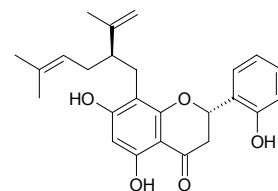
$C_{33}H_{28}N_2O_6$ (548.60). Yellow amorphous powder, $[\alpha]_D^{25} = +60^\circ$ ($c = 0.01$, MeOH). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = (10.0 \pm 0.5) \mu\text{mol/L}$, control Galanthamine, $IC_{50} = (0.5 \pm 0.001) \mu\text{mol/L}$). Source: CHUI MU FANG JI *Cocculus pendulus*. Ref: 4051.

**12353 Kushenin**

[99217-66-0] $C_{16}H_{14}O_5$ (286.29). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.

**12354 Kushenol A**

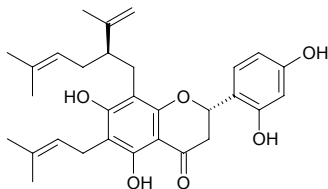
[99217-63-7] $C_{25}H_{28}O_5$ (408.50). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.



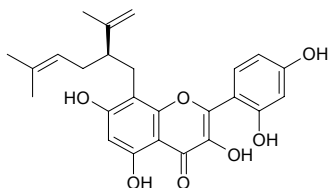
12355 Kushenol B

[99217-64-8] C₃₀H₃₆O₆ (492.61). Yellowish acicular crystals (benzene–acetone), mp 147–150°C, [α]_D²¹ = –40.2° (*c* = 0.39, methanol).

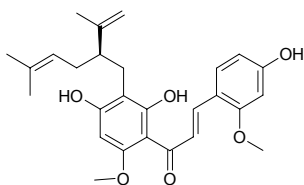
Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 31 μmol/L); phospholipase C_γ inhibitor (IC₅₀ = 7.5 μmol/L); tyrosinase inhibitor (IC₅₀ = 38.3 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 972, 1007, 1135, 1156, 5409.

**12356 Kushenol C**

[99119-73-0] C₂₅H₂₆O₇ (438.48). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

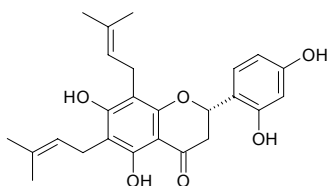
**12357 Kushenol D**

[99217-65-9] C₂₇H₃₂O₆ (452.55). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

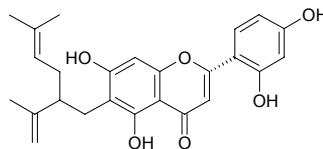
**12358 Kushenol E**

Flemiphilippin D [99119-72-9] C₂₅H₂₈O₆ (424.50). White solid, mp 161–163°C, [α]_D²⁵ = –15.2° (*c* = 0.5, ethanol), [α]_D²⁵ = –47° (*c* = 0.21, MeOH).

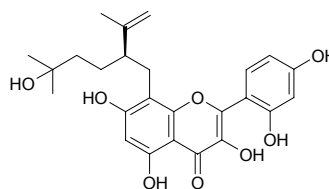
Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 40 μmol/L); phospholipase C_γ inhibitor (IC₅₀ = 11.8 μmol/L); tyrosinase inhibitor (IC₅₀ = 55.4 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** MAN XING QIAN JIN BA *Flemingia philippinensis* [Syn. *Moghania philippinensis*], KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 179, 900, 5409.

**12359 Kushenol F**

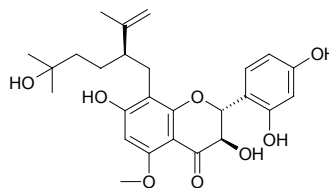
[99211-14-0] C₂₅H₂₆O₆ (422.48). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**12360 Kushenol G**

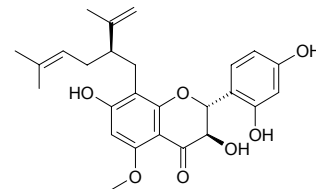
[99119-71-8] C₂₅H₂₈O₈ (456.50). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**12361 Kushenol H**

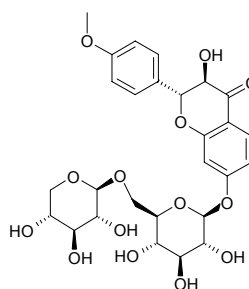
[99119-70-7] C₂₆H₃₂O₈ (472.54). **Pharm:** DGAT inhibitor (*in vitro*, IC₅₀ = 142.0 μmol/L)^[4951]; tyrosinase inhibitor (IC₅₀ = 40.0 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 4951, 5409.

**12362 Kushenol I**

[99119-69-4] C₂₆H₃₀O₇ (454.53). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

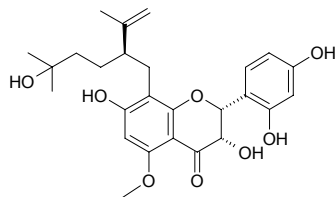
**12363 Kushenol J**

[101236-48-0] C₂₇H₃₂O₁₄ (580.55). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

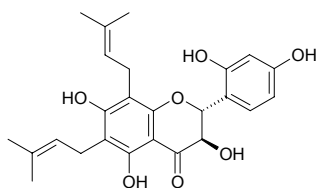


12364 Kushenol K

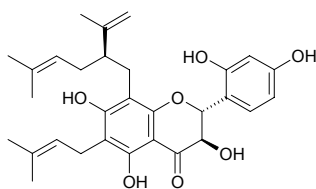
[101236-49-1] C₂₆H₃₂O₈ (472.54). Yellowish amorphous powder, [α]_D = -81° (*c* = 1.0, methanol). **Pharm:** Phospholipase C₇ inhibitor (IC₅₀ = 34.9 μmol/L); DGAT inhibitor (*in vitro*, IC₅₀ = 250 μmol/L)^[4951]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 1135, 1156, 4951.

**12365 Kushenol L**

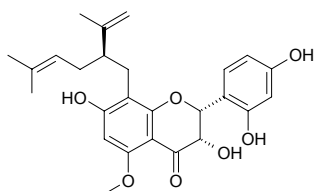
[101236-50-4] C₂₅H₂₈O₇ (440.49). Yellowish amorphous powder, [α]_D = +12° (*c* = 0.1, methanol). **Pharm:** Phospholipase C₇ inhibitor (IC₅₀ = 11.6 μmol/L); tyrosinase inhibitor (IC₅₀ = 43.3 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 1135, 1156, 5409.

**12366 Kushenol M**

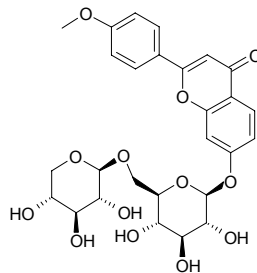
[101236-51-5] C₃₀H₃₆O₇ (508.61). Yellowish amorphous powder, [α]_D = +18° (*c* = 0.1, methanol). **Pharm:** Phospholipase C₇ inhibitor (IC₅₀ = 12.2 μmol/L); tyrosinase inhibitor (IC₅₀ = 37.5 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 1135, 1156, 5409.

**12367 Kushenol N**

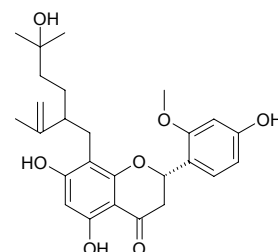
[102490-65-3] C₂₆H₃₀O₇ (454.52). Colorless amorphous, [α]_D = -52° (*c* = 0.1, methanol). **Pharm:** Phospholipase C₇ inhibitor (IC₅₀ = 31.2 μmol/L); tyrosinase inhibitor (IC₅₀ = 21.0 μmol/L, control Kojic acid, IC₅₀ = 11.3 μmol/L)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 1135, 1156, 1196, 5409.

**12368 Kushenol O**

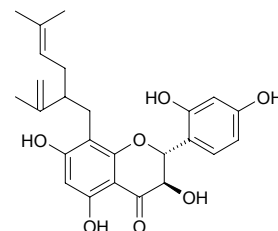
[102390-91-0] C₂₇H₃₀O₁₃ (562.53). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**12369 Kushenol P**

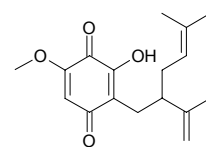
C₂₆H₃₂O₇ (456.54). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 4430.

**12370 Kushenol X**

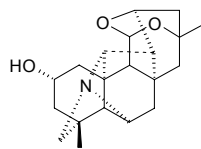
C₂₅H₂₈O₇ (440.50). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 4430.

**12371 Kushenquinone A**

[102390-90-9] C₁₇H₂₂O₄ (290.34). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

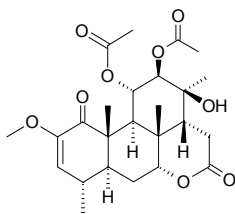
**12372 Kusnesoline**

C₂₀H₂₇NO₃ (329.44). Colorless needle crystals. **Source:** E MEI CUI QUE HUA *Delphinium omeiense*. **Ref:** 2190.

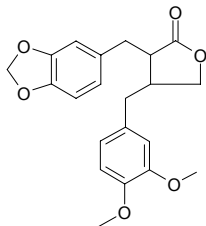


12373 Kusulactone

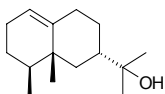
$C_{25}H_{34}O_9$ (478.54). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**12374 Kusunokinin**

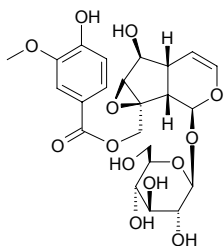
$C_{21}H_{22}O_6$ (370.41). Source: JIAN YE YUN XIANG CAO *Haplophyllum acutifolium*. Ref: 5175.

**12375 Kusunol**

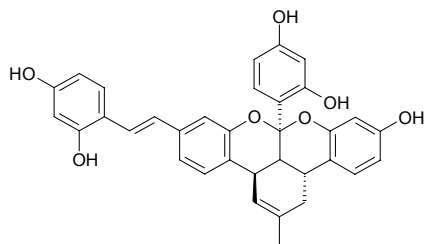
Valerianol [20489-45-6] $C_{15}H_{26}O$ (222.37). Source: CHEN XIANG *Aquilaria agallocha*, ZHANG MU *Cinnamomum camphora*. Ref: 6, 13, 660.

**12376 Kutkoside**

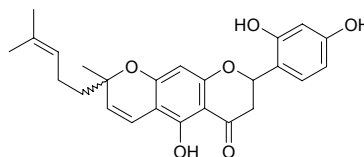
$C_{23}H_{28}O_{13}$ (512.47). Source: HU HUANG LIAN *Picrorhiza kurroa*. Ref: 660.

**12377 Kuwanol A**

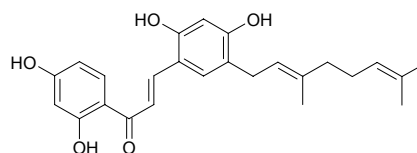
$C_{34}H_{28}O_7$ (548.60). Source: CAN SANG *Morus bombycis*. Ref: 2513.

**12378 Kuwanol C**

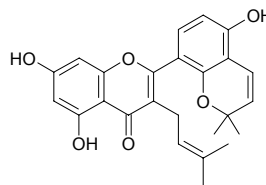
$C_{25}H_{26}O_6$ (422.48). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00018%semi-dw). Ref: 3034.

**12379 Kuwanol D**

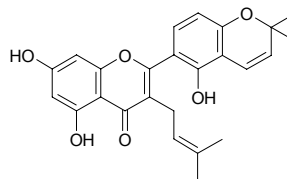
[123702-93-2] $C_{25}H_{28}O_5$ (408.50). Yellow amorphous powder. Source: SANG BAI PI *Morus alba*. Ref: 2513.

**12380 Kuwanon A**

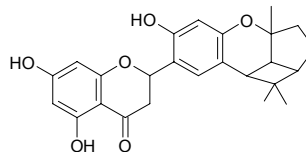
$C_{25}H_{24}O_6$ (420.47). Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*, *Streptococcus faecalis*, *Mycobacterium smegmatis*). Source: SANG BAI PI *Morus alba*. Ref: 2513.

**12381 Kuwanon B**

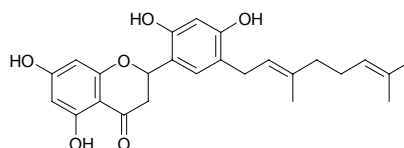
$C_{25}H_{24}O_6$ (420.47). Source: SANG BAI PI *Morus alba*. Ref: 660.

**12382 Kuwanon D**

$C_{25}H_{26}O_6$ (422.48). Source: SANG BAI PI *Morus alba*. Ref: 660.

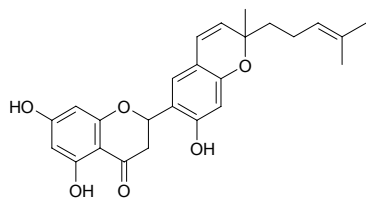
**12383 Kuwanon E**

$C_{25}H_{28}O_6$ (424.50). Source: SANG BAI PI *Morus alba*. Ref: 660.

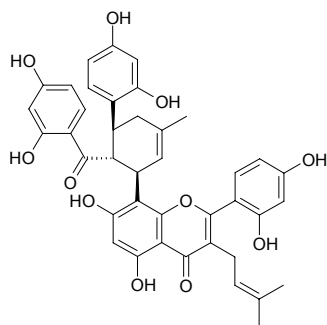


12384 Kuwanon F

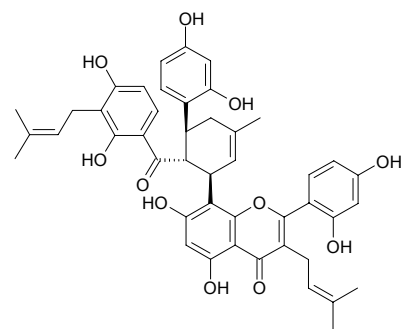
$C_{25}H_{26}O_6$ (422.48). Source: SANG BAI PI *Morus alba*. Ref: 660.

**12385 Kuwanon G**

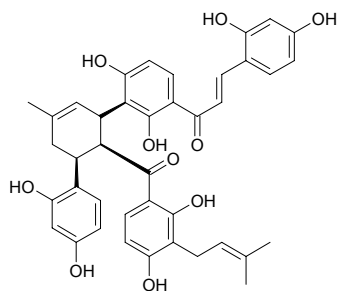
Moracenin B; Albanin F [75629-19-5] $C_{40}H_{36}O_{11}$ (692.73). Pharm: Antihypertensive (rbt, 1.0mg/kg iv). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.0014%semi-dw), SANG YE *Morus alba*. Ref: 658, 3034.

**12386 Kuwanon H**

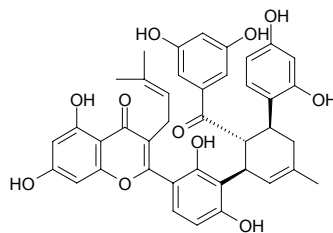
Moracenin A; Albanin G [76472-87-2] $C_{45}H_{44}O_{11}$ (760.85). Pharm: Antihypertensive. Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.0036%semi-dw)^[3034], SANG YE *Morus alba*. Ref: 658, 3034.

**12387 Kuwanon I**

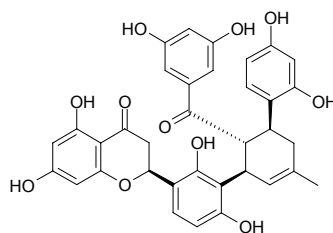
$C_{40}H_{38}O_{10}$ (678.74). Source: SANG BAI PI *Morus alba*. Ref: 660.

**12388 Kuwanon K**

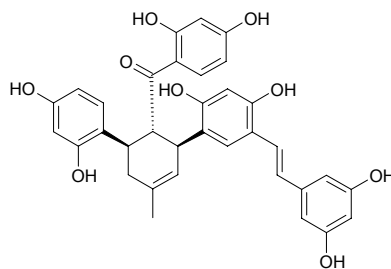
$C_{40}H_{36}O_{11}$ (692.73). Source: SANG BAI PI *Morus alba*. Ref: 660.

**12389 Kuwanon L**

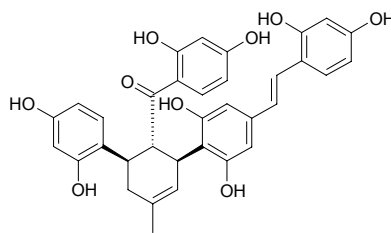
$C_{35}H_{30}O_{11}$ (626.62). Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*, *Streptococcus faecalis*, *Mycobacterium smegmatis*)^[2513]. Source: SANG BAI PI *Morus alba*. Ref: 660, 2513.

**12390 Kuwanon P**

$C_{34}H_{30}O_9$ (582.61). $[\alpha]_D^{29} = -451.9^\circ$ ($c = 0.12$, MeOH). Source: NAI SANG *Morus macroura* (stem cortex). Ref: 5013.

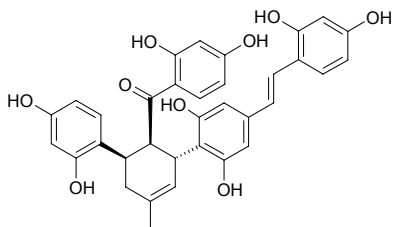
**12391 Kuwanon X**

$C_{34}H_{30}O_9$ (582.61). $[\alpha]_D^{29} = -351.6^\circ$ ($c = 0.11$, MeOH). Pharm: Antioxidant (100 μ mol/L, InRt of MDA = 101.7%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 80.8%, Vitamin E, InRt of MDA = 33.9%). Source: NAI SANG *Morus macroura* (stem cortex). Ref: 5013.

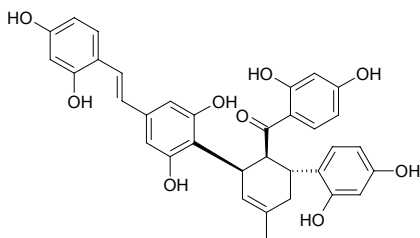


12392 Kuwanon Y

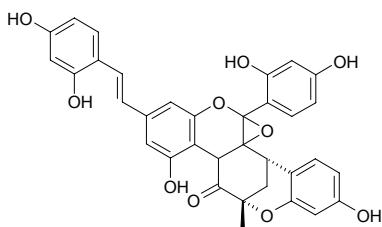
$C_{34}H_{30}O_9$ (582.61). $[\alpha]_D^{29} = +211.0^\circ$ ($c = 0.12$, MeOH). **Pharm:** Antioxidant (100 μ mol/L, InRt of MDA = 94.5%, control Vitamin E, InRt of MDA = 81.5%; 10 μ mol/L, InRt of MDA = 70.9%, Vitamin E, InRt of MDA = 33.9%). **Source:** NAI SANG *Morus macrourea* (stem cortex). **Ref:** 5013.

**12393 Kuwanon Y**

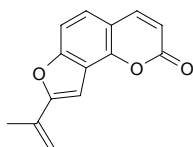
$C_{34}H_{30}O_9$ (582.61). **Source:** SANG BAI PI *Morus alba*. **Ref:** 660.

**12394 Kuwanon Z**

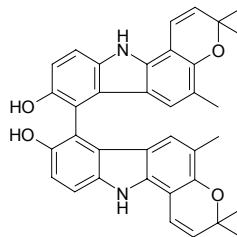
$C_{34}H_{26}O_{10}$ (594.58). **Source:** SANG BAI PI *Morus alba*. **Ref:** 660.

**12395 Kvannin**

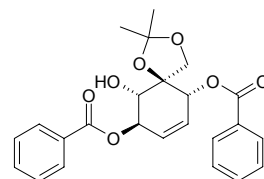
Oroselone [1760-27-6] $C_{14}H_{10}O_3$ (226.23). Crystals, mp 188~189°C, 170~174°C. **Source:** YUAN DANG GUI *Angelica archangelica*. **Ref:** 2071.

**12396 Kwangsine**

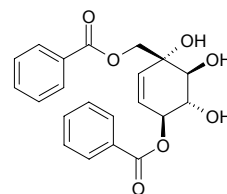
$C_{36}H_{32}N_2O_4$ (556.67). Yellow crystals, mp 263~273°C, $[\alpha]_D^{19} = -33.3^\circ$ ($c = 0.101$, $CHCl_3$). **Source:** GUANG XI JIU LI XIANG *Murraya kwangsiensis*. **Ref:** 863.

**12397 Kweichowenol A**

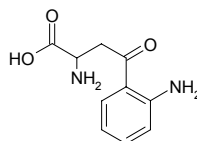
$C_{24}H_{24}O_7$ (424.45). White needles, mp 51~53°C, $[\alpha]_D^{20} = -95.8^\circ$ ($c = 0.011$, $CHCl_3$). **Pharm:** Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell, $IC_{50} = 65\mu$ g/mL, SK-MES-1 bronchogenic carcinoma cell, $IC_{50} = 56\mu$ g/mL, NCI-H446 bronchogenic carcinoma cell, $IC_{50} = 50\mu$ g/mL). **Source:** LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). **Ref:** 4480.

**12398 Kweichowenol B**

$C_{21}H_{20}O_7$ (384.39). White solid, mp 166~167°C, $[\alpha]_D^{20} = -5.78^\circ$ ($c = 0.019$, $CHCl_3$). **Pharm:** Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell, $IC_{50} = 20\mu$ g/mL, SK-MES-1 bronchogenic carcinoma cell, $IC_{50} = 18\mu$ g/mL, NCI-H446 bronchogenic carcinoma cell, $IC_{50} = 23\mu$ g/mL). **Source:** LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). **Ref:** 4480.

**12399 Kynurenine**

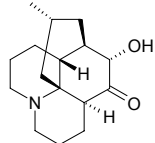
$C_{10}H_{12}N_2O_3$ (208.22). mp (+) 191°C, (-) 191°C, (\pm) 219°C (dec). **Source:** FENG RU *Apis cerana*, MO GU *Agaricus campestris*. **Ref:** 6.



L

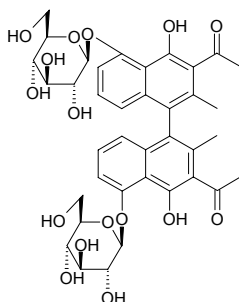
12400 L20

$C_{16}H_{25}NO_2$ (263.38). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.



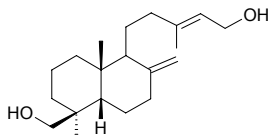
12401 Labadoside

4,4''-Binaphthalene-8,8''-*O,O*-di- β -*D*-glucopyranoside $C_{38}H_{42}O_{16}$ (754.75). Amorphous. Source: NIU XI XI *Rumex patientia*. Ref: 5138.

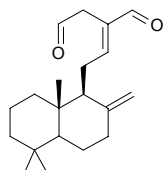


12402 Labdadiene

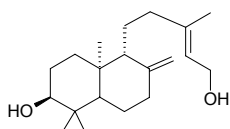
15,19-Dihydroxyl 8(17)-13(*E*)-labdatriene $C_{20}H_{34}O_2$ (306.49). White powder, mp 93–94°C (dec), $[\alpha]_D^{22} = -36.2^\circ$ ($c = 0.20$, $CHCl_3$). Source: CI BAI *Juniperus formosana* (fruit). Ref: 4581.

12403 (*E*)-Labda-8(17),12-diene-15,16-dial

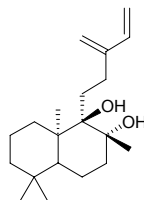
$C_{20}H_{30}O_2$ (302.46). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, $IC_{50} = 22\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 28\mu\text{mol/L}$); β -hexosaminidase release inhibitor (RBL-2H3 Cells, $100\mu\text{mol/L}$, InRt = 42.0%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0011%dw). Ref: 4655.

12404 Labda-8(17),13*E*-diene-3 β ,15-diol

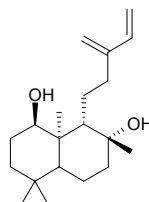
$C_{20}H_{34}O_2$ (306.49). Colorless needles (MeOH), mp 158–159°C, $[\alpha]_D^{25} = -24.3^\circ$ ($c = 0.5$, $CHCl_3$). Source: HAI QI *Excoecaria agallocha* (root). Ref: 5114.

12405 *ent*-Labda-13(16),14-diene-8 α ,9 β -diol

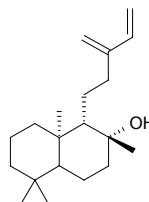
$C_{20}H_{34}O_2$ (306.49). Colorless oil, $[\alpha]_D^{20} = -2.8^\circ$ ($c = 0.51$, $CHCl_3$). Source: JIE MAO TAI *Blepharostoma trichophyllum*. Ref: 3843.

12406 *ent*-Labda-13(16),14-diene-1 β ,8 α ,9 β -diol

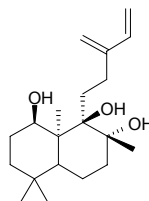
$C_{20}H_{34}O_2$ (306.49). Colorless oil, $[\alpha]_D^{20} = -14.7^\circ$ ($c = 0.21$, $CHCl_3$). Source: JIE MAO TAI *Blepharostoma trichophyllum*. Ref: 3843.

12407 *ent*-Labda-13(16),14-diene-8 α -ol

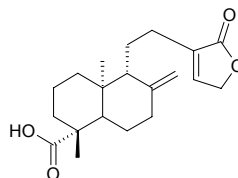
$C_{20}H_{34}O$ (290.49). Colorless oil, $[\alpha]_D^{20} = -15.7^\circ$ ($c = 0.19$, $CHCl_3$). Source: JIE MAO TAI *Blepharostoma trichophyllum*. Ref: 3843.

12408 *ent*-Labda-13(16),14-diene-1 β ,8 α ,9 β -triol

$C_{20}H_{34}O_3$ (322.49). Colorless needles, mp 114°C (*n*-hexane), $[\alpha]_D^{20} = -58.8^\circ$ ($c = 0.16$, $CHCl_3$). Source: JIE MAO TAI *Blepharostoma trichophyllum*. Ref: 3843.

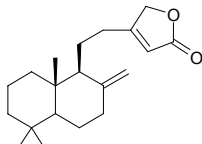
12409 8(17),13-*ent*-Labdadien-15 \rightarrow 16-lactone-19-oic acid

$C_{20}H_{28}O_4$ (332.44). Yellow oil, $[\alpha]_D^{25} = -33.0^\circ$ ($c = 0.74$, MeOH). Pharm: Anticidal (inhibits growth of alga *Raphidocelis subcapitata*, 72h $IC_{50} = 47.1\mu\text{mol/L}$). Source: BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole herb). Ref: 3488.

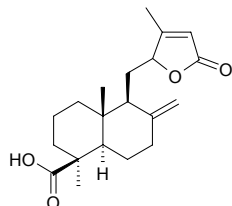


12410 Labda-8(17),13(14)-dien-15,16-olide

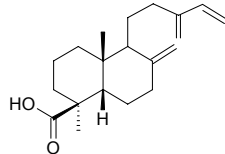
$C_{20}H_{30}O_2$ (302.46). Source: TU QIANG HUO *Hedychium coronarium* (rhizome). Ref: 4221.

**12411 8(17),13-Labdadien-12,15-olid-19-oic acid**

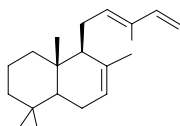
$C_{20}H_{28}O_4$ (332.44). Amorphous, $[\alpha]_D^{27} = +8.1^\circ$ ($c = 0.32$, $CHCl_3$). Source: TAI WAN SHAN MU *Cunninghamia konishii* (wood). Ref: 4176.

**12412 Labdatriene**

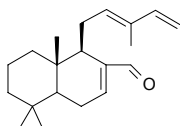
19-Carboxy 8(17)-13(16)-14-labdatriene $C_{20}H_{30}O_2$ (302.46). Yellowish solid, mp 107~108°C (dec), $[\alpha]_D^{22} = -19.1^\circ$ ($c = 0.30$, $CHCl_3$). Source: CI BAI *Juniperus formosana* (fruit). Ref: 4581.

**12413 Labda-7,12(E),14-triene**

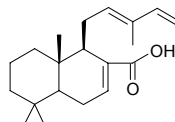
$C_{20}H_{32}$ (272.48). Viscous transparent oil, $[\alpha]_D^{30} = +3.77^\circ$ ($c = 1.76$, $CHCl_3$). Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10µg/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 1903, 5363.

**12414 Labda-7,12(E),14-triene-17-ol**

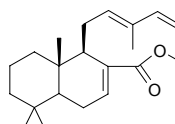
$C_{20}H_{30}O$ (286.46). Colorless needle crystals, mp 72~74°C, $[\alpha]_D^{30} = +37.48^\circ$ ($c = 1.51$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, BT474, IC₅₀ = 5.0µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.08µg/mL; CHAGO, IC₅₀ = 4.8µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 2.3µg/mL; HepG2, IC₅₀ = 5.2µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.9µg/mL; Kato3, IC₅₀ = 4.2µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.7µg/mL; SW620, IC₅₀ = 5.5µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.1µg/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 1903, 5363.

**12415 Labda-7,12(E),14-triene-17-oic acid**

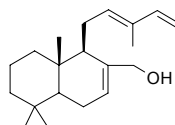
$C_{20}H_{30}O_2$ (302.46). Colorless needle crystals, mp 118~120°C, $[\alpha]_D^{30} = -15.93^\circ$ ($c = 1.67$, $CHCl_3$). Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10µg/mL)^[5363]. Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 1903, 5363.

**12416 Labda-7,12(E),14-triene-17-oic acid methyl ester**

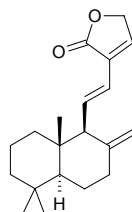
$C_{21}H_{32}O_2$ (316.49). Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10µg/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

**12417 Labda-7,12(E),14-triene-17-ol**

$C_{20}H_{32}O$ (288.48). Colorless needle crystals, mp 90~92°C, $[\alpha]_D^{30} = +12.02^\circ$ ($c = 1.63$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, BT474, IC₅₀ = 5.4µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.08µg/mL; CHAGO, IC₅₀ = 5.8µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 2.3µg/mL; HepG2, IC₅₀ = 6.3µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 0.9µg/mL; Kato3, IC₅₀ = 5.8µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.7µg/mL; SW620, IC₅₀ = 5.7µg/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.1µg/mL)^[5363]. Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 1903, 5363.

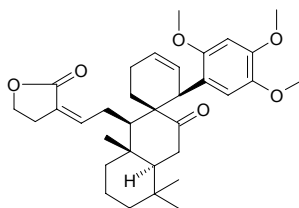
**12418 Labda-8(17),11,13-trien-15(16)-olide**

$C_{20}H_{28}O_2$ (300.44). Colorless needles, mp 118~120°C. Source: YUAN BAN JIANG HUA *Hedychium forrestii* (root). Ref: 4886.



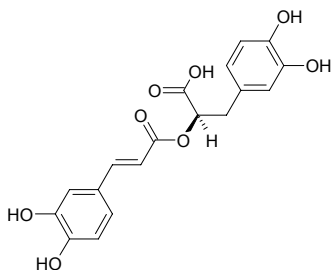
12419 rel-Labd-12-en-15(16)-olid-7-one-8R-spiro-1'-[2S-(2,4,5-trimethoxyphenyl)-3-cyclohexene]

$C_{33}H_{44}O_6$ (536.72). Colorless oil, $[\alpha]_D^{25} = -107.1^\circ$ ($c = 0.10$, $CHCl_3$). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf: yield = 0.00017%*dw*). Ref: 3051.



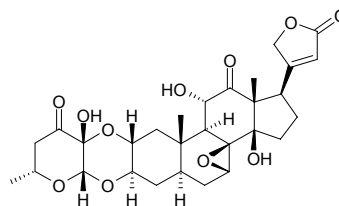
12420 Labiatic acid

Rosmarinic acid [537-15-5] $C_{18}H_{16}O_8$ (360.32). Crystals, $+2H_2O$, mp $204^\circ C$ (dec), $[\alpha]_D^{20} = +145^\circ$. Pharm: Antithrombotic (rat, *in vivo*, inhibits venous thrombosis); platelet aggregation inhibitor (rat, *in vivo*, induced by collagen); anti-inflammatory; stimulates fibrinolysis; antiviral (herpes simplex virus); antioxidant (lipid peroxidation inhibitor, microsomes of murine cerebral, hepatic and renal cells, induced by vitamin C-nicotinamide ADP and Fe^{2+} -cysteine, superoxide anion scavenger); antioxidant (DPPH scavenger, $IC_{50} = 0.0801$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mol/L; superoxide radical inhibitor, $IC_{50} = 0.282$ mmol/L, control Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, $IC_{50} = 0.034$ mmol/L, control Propyl gallate, $IC_{50} = 0.064$ mmol/L)^[4533]; antioxidant (*in vitro*, Cu^{2+} induced LDL peroxidation assay, $IC_{50} = 1.81$ μ mol/L; control Probucol, $IC_{50} = 4.7$ μ mol/L)^[4628]; antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 4.40$ μ mol/L; enzyme-dependent lipid peroxidation, $IC_{50} = 0.39$ μ mol/L)^[5494]; inhibits pathogenic bacteria; adenyl cyclase inhibitor. Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadasensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], DA XING QIN *Astrantia major*, DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.166%^[5508]), HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], LA BO HE *Mentha piperita*, LIN SHI CAN *Teucrium scorodonia*, MI DIE XIANG *Rosmarinus officinalis*, MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindelofia stylosa* (地上部分), SHE XIANG CAO *Thymus vulgaris*, XI MEN FEI CAO *Symphytum officinale*, XIANG FENG HUA *Melissa officinalis*, YAO YONG DAN SHEN *Salvia officinalis*, ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.0625%^[4628]), *Anethum* sp., *Levisticum* sp., *Sanicula* sp. Ref: 2, 658, 660, 1521, 2592, 4533, 4628, 5494, 5508.



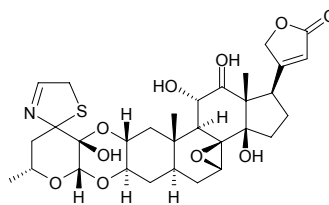
12421 Labriformidin

[66419-08-7] $C_{29}H_{36}O_{11}$ (560.60). Powder, mp $206\text{--}210^\circ C$. Pharm: Toxin (vertebrate); LD_{50} (male Swiss Webster mus, ip) = 3.1 mg/kg. Source: MAO GUO MA LI JIN *Asclepias eriocarpa*. Ref: 658.



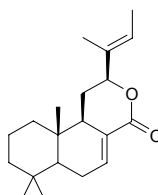
12422 Labriformine

[66419-07-6] $C_{31}H_{39}NO_{10}S$ (617.72). Crystals (Me_2CO -hexane), mp $222\text{--}225^\circ C$, mp $213\text{--}215^\circ C$. Pharm: Toxin (vertebrate); LD_{50} (male Swiss Webster mus, ip) = 9.2 mg/kg. Source: MAO GUO MA LI JIN *Asclepias eriocarpa*. Ref: 658, 1521.



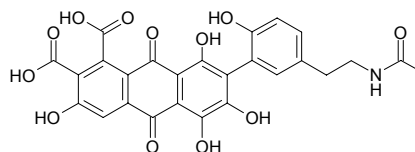
12423 Labta-7,13(E)-diene-17,12-olide

$C_{20}H_{30}O_2$ (302.46). mp $104\text{--}106^\circ C$, $[\alpha]_D^{20} = -9.836^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, BT474, $IC_{50} = 4.9$ μ g/mL, control Doxorubicin hydrochloride, $IC_{50} = 0.08$ μ g/mL; CHAGO, $IC_{50} = 6.4$ μ g/mL, Doxorubicin hydrochloride, $IC_{50} = 2.3$ μ g/mL; HepG2, $IC_{50} = 6.0$ μ g/mL, Doxorubicin hydrochloride, $IC_{50} = 0.9$ μ g/mL; Kato3, $IC_{50} = 4.6$ μ g/mL, Doxorubicin hydrochloride, $IC_{50} = 1.7$ μ g/mL; SW620, $IC_{50} = 5.0$ μ g/mL, Doxorubicin hydrochloride, $IC_{50} = 1.1$ μ g/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.



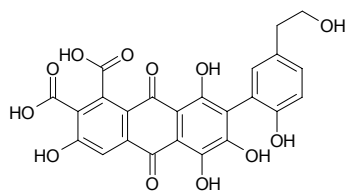
12424 Laccaic acid A

$C_{26}H_{19}NO_{12}$ (537.44). Source: SHENG QI *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*]. Ref: 660.

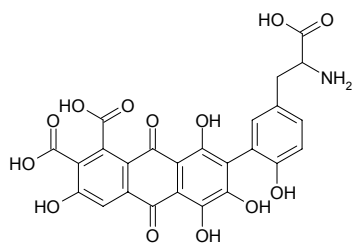


12425 Laccaic acid B

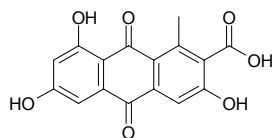
$C_{24}H_{16}O_{12}$ (496.39). Source: SHENG QI *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*]. Ref: 660.

**12426 Laccaic acid C**

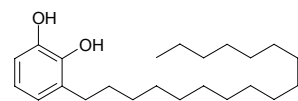
$C_{25}H_{17}NO_{13}$ (539.41). Source: SHENG QI *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*]. Ref: 660.

**12427 Laccaic acid D**

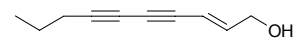
$C_{16}H_{10}O_7$ (314.25). Source: SHENG QI *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*]. Ref: 660.

**12428 Laccol**

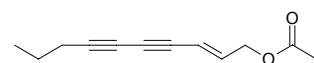
$C_{23}H_{40}O_2$ (348.57). mp 23°C. Source: LIN BEI ZI *Toxicodendron succedaneum* [Syn. *Rhus succedanea*]. Ref: 6.

**12429 Lachnophyllol**

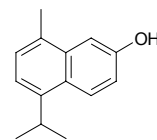
[23180-62-3] $C_{10}H_{12}O$ (148.21). Crystals (petroleum ether), mp 39~40°C. Source: ZI WAN *Aster tataricus*. Ref: 6.

**12430 Lachnophyllol acetate**

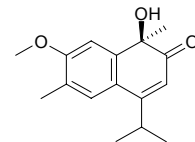
$C_{12}H_{14}O_2$ (190.24). bp 90°C/0.001mmHg. Source: ZI WAN *Aster tataricus*. Ref: 6.

**12431 Lacinilene A**

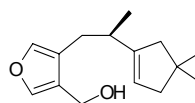
$C_{14}H_{16}O$ (200.28). Source: LANG YU PI *Ulmus parvifolia*. Ref: 660.

**12432 Lacinilene C 7-methyl ether**

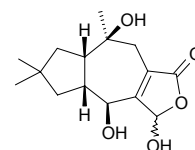
$C_{16}H_{20}O_3$ (260.34). Source: LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*]. Ref: 658.

**12433 Lactarol**

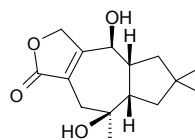
$C_{15}H_{22}O_2$ (234.34). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**12434 Lactarolide A**

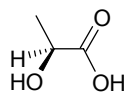
$C_{15}H_{22}O_5$ (282.34). Source: MEI WEI HONG GU *Russula delica* (sporocarp). Ref: 4374.

**12435 Lactarorufin A**

$C_{15}H_{22}O_4$ (266.34). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

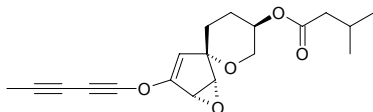
**12436 Lactic acid**

2-Hydroxypropanoic acid [50-21-5] $C_3H_6O_3$ (90.08). Pharm: Antiseptic (*L*-Lactic acid). Source: KUAN YE XIANG PU *Typha latifolia*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MAO DI HUANG *Digitalis purpurea*. Ref: 2, 658, 660.

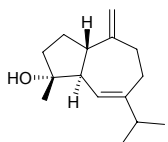


12437 Lactiflorasyn

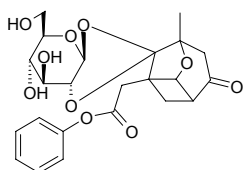
$C_{15}H_{22}O_5$ (330.38). White granular crystals, mp 92.5–93.5°C, $[\alpha]_D^{29} = +3^\circ$ ($c = 0.37$, chloroform). Source: YA JIAO AI *Artemisia lactiflora*. Ref: 66.

**12438 Lactifloreol**

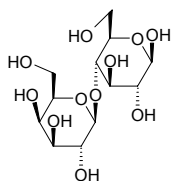
$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_D^{20} = +15.8^\circ$ ($c = 0.09$, ethanol). Pharm: Antiasthmatic; antibacterial; antispasmodic. Source: YA JIAO AI *Artemisia lactiflora*. Ref: 661.

**12439 Lactiflorin**

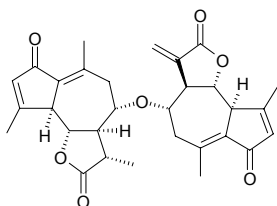
$C_{23}H_{26}O_{10}$ (462.46). Crystals (CHCl₃–MeOH), mp 207–209°C, $[\alpha]_D^{23} = +37.2^\circ$ ($c = 0.01$, EtOH). Source: CHI SHAO *Paeonia lactiflora* wild. Ref: 2, 1521.

**12440 Lactose**

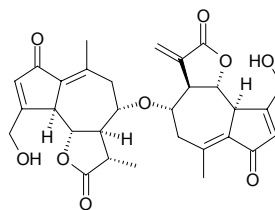
$C_{12}H_{22}O_{11}$ (342.30). Pharm: Treatment of hepatic coma and constipation. Source: LIAN QIAO *Forsythia suspensa*. Ref: 658.

**12441 Lactuain A**

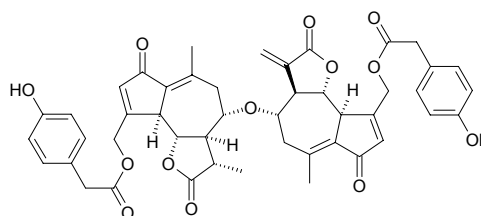
$C_{30}H_{32}O_7$ (504.59). Amorphous powder, $[\alpha]_D^{25} = -20.5^\circ$ ($c = 0.2$, MeOH). Source: SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0027%fw). Ref: 4689.

**12442 Lactuain B**

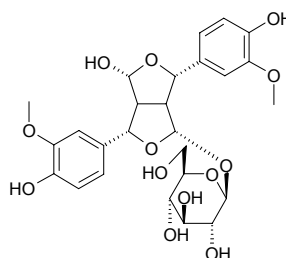
$C_{30}H_{32}O_9$ (536.58). Amorphous powder, $[\alpha]_D^{25} = -68.6^\circ$ ($c = 0.5$, MeOH). Source: SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.00027%fw). Ref: 4689.

**12443 Lactuain C**

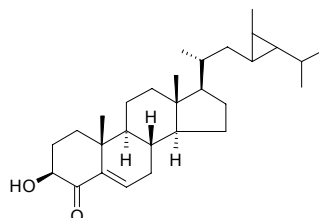
$C_{46}H_{44}O_{13}$ (804.86). Amorphous powder, $[\alpha]_D^{25} = +38.0^\circ$ ($c = 0.2$, MeOH). Pharm: Antidiabetic (STZ-induced diabetic rats *in vivo*, antihyperglycemic test, 1mmol/kg, $\Delta = (-22.74 \pm 12.53)\%$). Source: SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0025%fw). Ref: 4689.

**12444 Lactucaside**

9 α -Hydroxy-9 α -O- β -D-glucopyranosylpinoresinol $C_{26}H_{32}O_{13}$ (552.54). Off-white amorphous powder, $[\alpha]_D^{25} = -44.3^\circ$ ($c = 0.4$, MeOH). Pharm: Antidiabetic (STZ-induced diabetic rats *in vivo*, antihyperglycemic test, 1mmol/kg, $\Delta = (-17.95 \pm 5.63)\%$). Source: SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0018%fw). Ref: 4689.

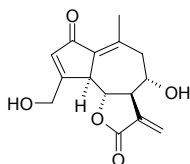
**12445 Lactuasterol**

$C_{29}H_{46}O_2$ (426.69). White powder, mp 148–150°C. Source: SHI CHUN *Ulva lactuca*. Ref: 837.

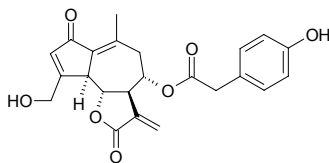


12446 Lactucin

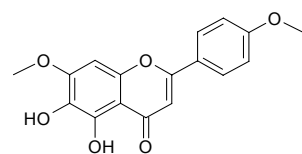
8 β ,15-Dihydroxy-2-oxo-guaia-1(10),3,11(13)-trien-5 α ,6 β ,7 α H-12,6-olide [1891-29-8] C₁₅H₁₆O₅ (276.29). Crystals (Me₂CO), mp 224–228°C, [α]_D = +49° (*c* = 0.9, MeOH). **Pharm:** Cytotoxic (hmn, *in vitro*, PC3 prostate cancer cells, IC₅₀ = 10.7 μ g/mL)^[2527]; cytotoxic (hmn tumor cells HeLa); antitussive; sedative; LD (mus, orl) = 800–1000mg/kg, (mus, sc) = 50mg/kg, (mus, iv) = 15mg/kg. **Source:** DU WO JU *Lactuca virosa*, JU QU *Cichorium intybus*, SHAN KU MAI *Ixeris chinensis*, SA LI LA WO JU *Lactuca sariola*, SUI BIAN WO JU *Lactuca laciniata*, WO JU *Lactuca sativa*. **Ref:** 5, 658, 2527.

**12447 Lactucopicrin**

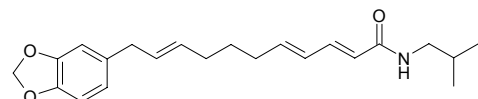
[65725-11-3] C₂₃H₂₂O₇ (410.43). **Pharm:** Hypoglycemic **Source:** DU WO JU *Lactuca virosa*, JIA NA DA WO JU *Lactuca canadensis*, JU QU *Cichorium intybus*, YE WO JU *Lactuca serriola*. **Ref:** 6, 658.

**12448 Ladanein**

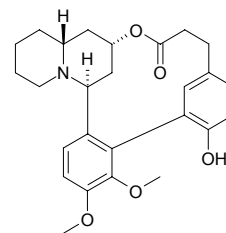
5,6-Dihydroxy-7,4'-dimethoxyflavone C₁₇H₁₄O₆ (314.30). Pale yellow powder, mp 213–216°C. **Pharm:** PFase inhibitor (100 μ g/mL, InRt = 63%)^[5378]; cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20 μ g/mL)^[5378]; angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10 μ g)^[5378]. **Source:** AI YE *Artemisia argyi*, XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0058%dw). **Ref:** 3053, 5378.

**12449 Laetispicine**

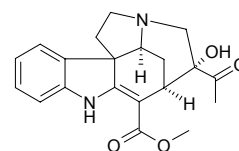
C₂₂H₂₉NO₃ (355.48). White needles, mp 93–94°C. **Source:** DA YE JU *Piper laetispicum*. **Ref:** 4865.

**12450 Lagerstremine**

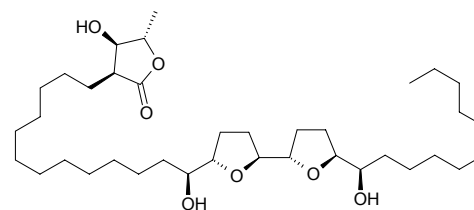
Lagerstroemine [10247-53-7] C₂₆H₃₁NO₅ (437.54). mp 226–228°C. **Source:** ZI WEI YE *Lagerstroemia indica*. **Ref:** 6.

**12451 Lagumicine**

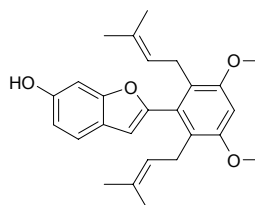
C₂₀H₂₂N₂O₄ (354.41). Light yellowish oil, [α]_D = –552° (*c* = 0.07, CHCl₃). **Source:** XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). **Ref:** 3780.

**12452 Laherradurin**

C₃₇H₆₈O₇ (624.95). **Pharm:** Mitochondrial complex I selective inhibitor (NADH oxidase IC₅₀ = (0.18±0.02)nmol/L, *p* < 0.001, control Rotenone, IC₅₀ = (5.10±0.09)nmol/L). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 5024.

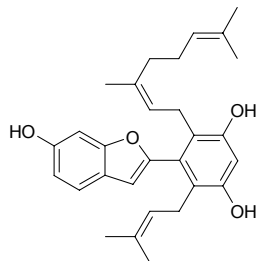
**12453 Lakoochin A**

C₂₆H₃₀O₄ (406.53). Off-white semisolid. **Pharm:** Antitubercular (*in vitro*, *Mycobacterium tuberculosis* H37Ra, MIC = 12.5 μ g/mL); cytotoxic (*in vitro*, BC, IC₅₀ = 6.1 μ g/mL; KB, inactive at 20 μ g/mL). **Source:** LA KOU SHA MIAN BAO GUO *Artocarpus lakoocha* (root: yield = 0.00050%dw). **Ref:** 3017.

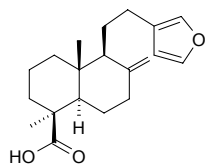


12454 Lakoochin B

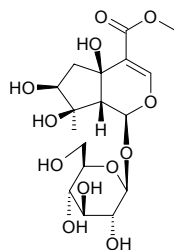
$C_{29}H_{34}O_4$ (446.59). Off-white semisolid. **Pharm:** Antitubercular (*in vitro*, *Mycobacterium tuberculosis* H37Ra, MIC = 50 $\mu\text{g}/\text{mL}$); cytotoxic (*in vitro*, BC, IC₅₀ = 3.1 $\mu\text{g}/\text{mL}$; KB, IC₅₀ = 6.1 $\mu\text{g}/\text{mL}$). **Source:** LA KOU SHA MIAN BAO GUO *Artocarpus lakoocha* (root; yield = 0.0011%dw). **Ref:** 3017.

**12455 Lambertianic acid**

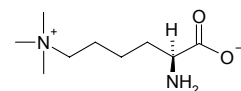
[4966-13-6] $C_{20}H_{28}O_3$ (316.44). Colorless oil, mp 126.5~127.5°C, $[\alpha]_D^{25} = +53^\circ$ ($c = 0.26$, CHCl_3), $[\alpha]_D^{25} = +55^\circ$ ($c = 0.69$, EtOH). **Pharm:** Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (41.2±4) $\mu\text{g}/\text{mL}$ ((130.2±12.6) $\mu\text{mol}/\text{L}$))^[3022]. **Source:** CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], HAI SONG ZI *Pinus koraiensis*. **Ref:** 6, 3022.

**12456 Lamiide**

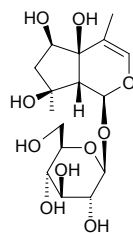
[27856-54-8] $C_{17}H_{26}O_{12}$ (422.39). **Source:** BAO GAI CAO *Lamium amplexicaule*, TIAN SHE CAO *Lippia dulcis* (aerial parts). **Ref:** 6, 4508.

**12457 Laminine**

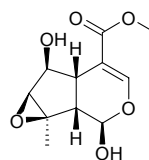
6-*N*-Trimethyl-*L*-lysine betaine [2408-79-9] $C_9H_{20}N_2O_2$ (188.27). **Source:** KUN BU *Laminaria japonica*. **Ref:** 5, 6, 5501.

**12458 Lamiol**

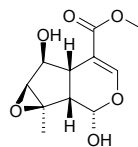
[30987-52-1] $C_{16}H_{26}O_{10}$ (378.38). **Source:** BAO GAI CAO *Lamium amplexicaule*. **Ref:** 6.

**12459 Lamiophlomiol A**

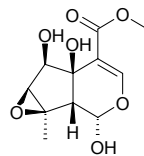
[134107-56-5] $C_{11}H_{14}O_6$ (242.23). Colorless prismatic crystals (acetic ester-methanol), mp 159~163°C, $[\alpha]_D^{22} = +43.2^\circ$ ($c = 1.325$, methanol). **Source:** DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. **Ref:** 178.

**12460 Lamiophlomiol B**

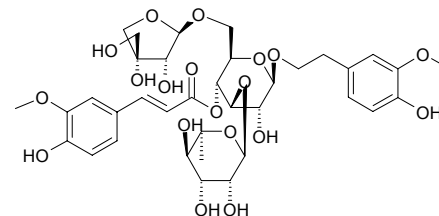
$C_{11}H_{14}O_6$ (242.23). **Source:** DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. **Ref:** 178.

**12461 Lamiophlomiol C**

$C_{11}H_{14}O_7$ (258.23). Colorless prismatic crystals, mp 155~157°C, $[\alpha]_D^{22} = +66.7^\circ$ ($c = 2.11$, methanol). **Source:** DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. **Ref:** 223.

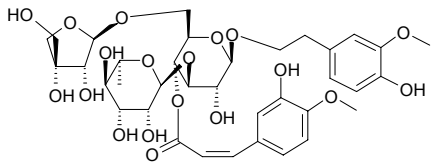
**12462 Lamiophlomoside A**

3-Methoxy-4-hydroxy-phenethyl-*O*-[α -*L*-rhamno-pyranosyl-(1→3)]-*O*-[β -*D*-apiofuranosyl-(1→6)]-4-*O*-feruloyl- β -*D*-glucopyranoside $C_{36}H_{48}O_{19}$ (784.77). Yellowish powder, mp 107~108°C. **Source:** DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. **Ref:** 323.

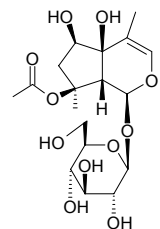


12463 cis-Lamiophlomiside A

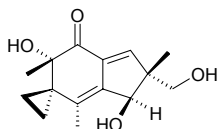
[239467-64-2] C₃₆H₄₈O₁₉ (784.77). Off-white amorphous powder. Source: DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. Ref: 2318.

**12464 Lamioside**

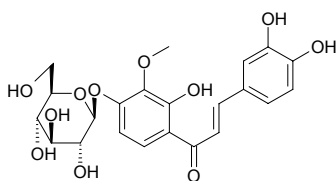
[19228-19-4] C₁₈H₂₈O₁₁ (420.42). Source: BAO GAI CAO *Lamium amplexicaule*, YE ZHI MA *Lamium barbatum*. Ref: 6.

**12465 Lampterol**

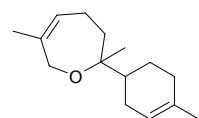
C₁₅H₂₀O₄ (264.32). mp 124~125°C. Pharm: Antineoplastic. Source: RI BEN CE ER *Lamptreomyces japonicus* (the compound was isolated from the plant by Masaru Tada et al. in 1964). Ref: 5505.

**12466 Lanceolin**

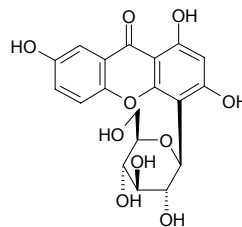
[64181-95-9] C₂₂H₂₄O₁₁ (464.43). mp 215~220°C. Source: XIAN YE JIN JU *Coreopsis lanceolata*. Ref: 6.

**12467 Lanceoloxide**

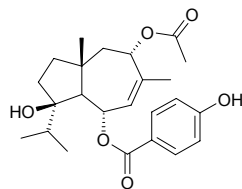
1,5-Dimethyl-1-(4-methylhexenyl)-4-cycloheptenylether C₁₅H₂₄O (220.36). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

**12468 Lancerin**

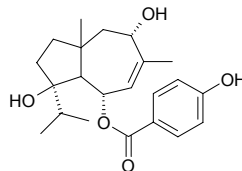
[81991-99-3] C₁₉H₁₈O₁₀ (406.35). Amorphous powder. Pharm: CNS stimulant (rat, sc, strengthens ephedrine-induced spontaneous motion). Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691, 1829.

**12469 Lancerotriol 9-acetate-6-p-hydroxybenzoate**

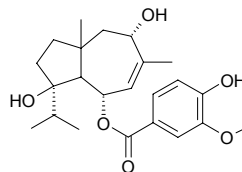
C₂₄H₃₂O₆ (416.52). Source: *Ferula sinaica* (leaf). Ref: 5145.

**12470 Lancerotriol 9α-(p-hydroxybenzoate)**

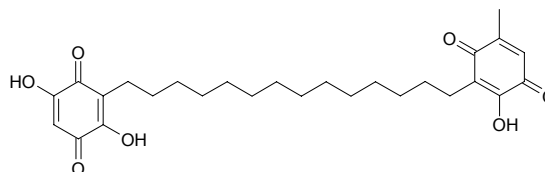
C₂₂H₃₀O₅ (374.48). Source: YI LANG A WEI *Ferula kuhistanica* (root), YI LANG A WEI *Ferula kuhistanica* (fruit). Ref: 3977, 5207.

**12471 Lancerotriol 6-vanillate**

C₂₃H₃₂O₆ (404.51). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

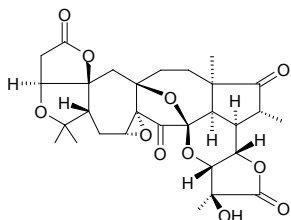
**12472 Lanciaquinone**

C₂₇H₃₆O₇ (472.58). Yellow brown crystals (MeOH), mp 141~143°C, [α]_D²⁵ = +29° (c = 0.5, CH₂Cl₂). Source: PI ZHEN DU JING SHAN *Maesa lanceolata* (fruit). Ref: 3464.

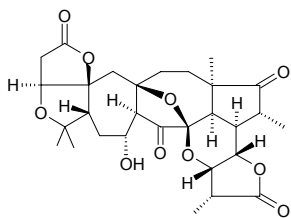


12473 Lancifodilactone B

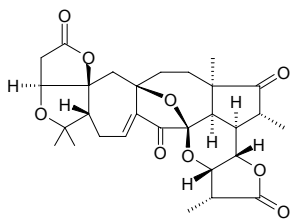
$C_{29}H_{34}O_{11}$ (558.59). Colorless needles (acetone), mp 222~224°C, $[\alpha]_D = +55.12^\circ$ ($c = 0.25$, C_5H_5N). [Source](#): XIA YE WU WEI ZI *Schisandra lancifolia* (stem and leaf: yield = 0.00068%dw). [Ref](#): 3006.

**12474 Lancifodilactone C**

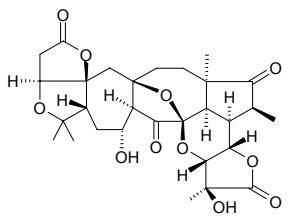
$C_{29}H_{36}O_{10}$ (544.6). Colorless prisms (MeOH), mp 209~211°C, $[\alpha]_D = +47.74^\circ$ ($c = 0.20$, C_5H_5N). [Source](#): XIA YE WU WEI ZI *Schisandra lancifolia* (stem and leaf: yield = 0.00095%dw). [Ref](#): 3006.

**12475 Lancifodilactone D**

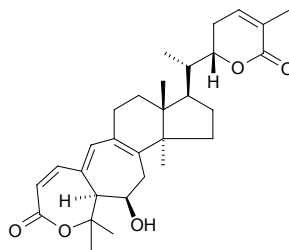
$C_{29}H_{34}O_9$ (526.59). Colorless prisms (MeOH), mp 230~232°C, $[\alpha]_D = +80.77^\circ$ ($c = 0.26$, C_5H_5N). [Source](#): XIA YE WU WEI ZI *Schisandra lancifolia* (stem and leaf: yield = 0.0018%dw). [Ref](#): 3006.

**12476 Lancifodilactone E**

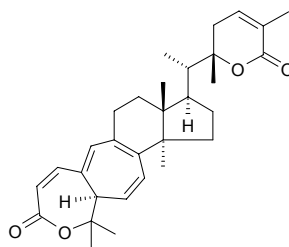
21 β -Methyl-20,22-dideoxy-25-hydroxymicrandilactone A $C_{29}H_{36}O_{11}$ (560.6). Colorless prisms (acetone), mp 200°C, $[\alpha]_D +70.42^\circ$ ($c = 0.21$, MeOH). [Source](#): XIA YE WU WEI ZI *Schisandra lancifolia* (stem and leaf: yield = 0.00074%dw). [Ref](#): 3006.

**12477 Lancilactone A**

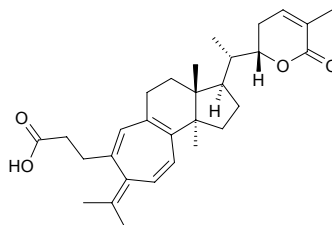
[218915-15-2] $C_{30}H_{40}O_5$ (480.65). [Source](#): PI ZHEN YE NAN WU WEI ZI *Kadsura lancilimba*. [Ref](#): 2436.

**12478 Lancilactone B**

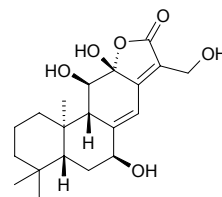
[218915-16-3] $C_{30}H_{38}O_4$ (462.63). [Source](#): PI ZHEN YE NAN WU WEI ZI *Kadsura lancilimba*. [Ref](#): 2436.

**12479 Lancilactone C**

$C_{30}H_{40}O_4$ (464.65). [Pharm](#): Anti-HIV (inhibits HIV replication). [Source](#): PI ZHEN YE NAN WU WEI ZI *Kadsura lancilimba*. [Ref](#): 928, 2268.

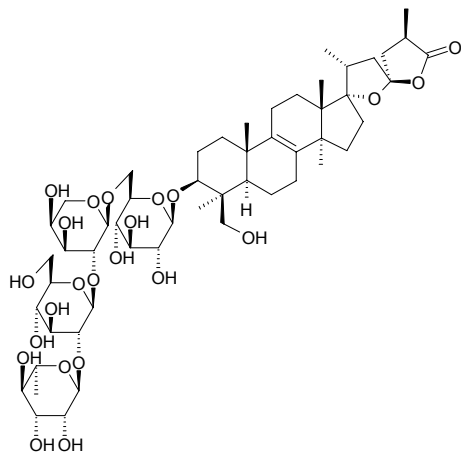
**12480 Languin B**

$C_{20}H_{28}O_6$ (364.44). Colorless crystals, mp 220~222°C, $[\alpha]_D^{26} = -143^\circ$ ($c = 0.002$, EtOH). [Source](#): LANG DU DA JI *Euphorbia fischeriana*. [Ref](#): 2350.

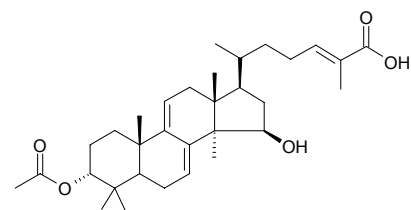


12481 Lanostane glycoside

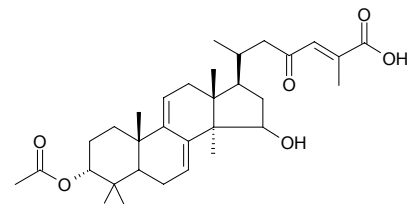
$C_{53}H_{84}O_{23}$ (1089.25). **Pharm:** Cytotoxic (HSC-2 hm oral squamous cell carcinoma cells, $IC_{50} = 42\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). **Ref:** 3495.

**12482 Lanosta-7,9(11),24-trien-3 α -acetoxy-15 α ,22 β -dihydroxy-26-oic acid**

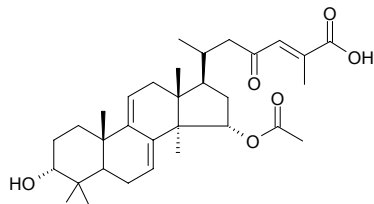
$C_{32}H_{48}O_5$ (512.74). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**12483 Lanosta-7,9(11),24-trien-3 α -acetoxy-15 α -hydroxy-23-oxo-26-oic acid**

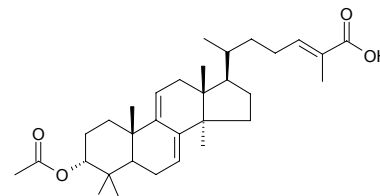
$C_{32}H_{46}O_6$ (526.72). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**12484 Lanosta-7,9(11),24-trien-15 α -acetoxy-3 α -hydroxy-23-oxo-26-oic acid**

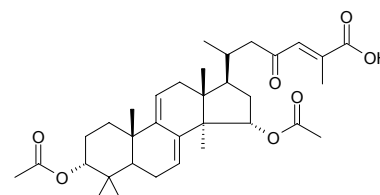
$C_{32}H_{46}O_6$ (526.72). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**12485 Lanosta-7,9(11),24-trien-3 α -acetoxy-26-oic acid**

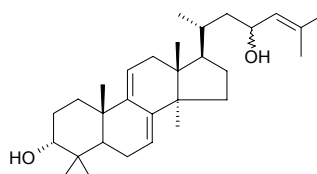
$C_{32}H_{48}O_4$ (496.74). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**12486 Lanosta-7,9(11),24-trien-3 α ,15 α -diacetoxy-23-oxo-26-oic acid**

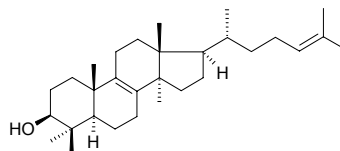
$C_{34}H_{48}O_7$ (568.76). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**12487 5 α -Lanosta-7,9(11),24-triene-3 α ,23-diol**

$C_{30}H_{48}O_2$ (440.72). Colorless needles (MeOH), mp 105°C, $[\alpha]_D = -20^\circ$ ($c = 0.01$, CHCl_3). **Pharm:** Antileishmanial (*Leishmania donovani* promastigotes, $IC_{50} = 20\mu\text{mol/L}$, SI = 1.06, control Pentamidine, $IC_{50} = 0.40\mu\text{mol/L}$, SI = 0.42, amastigotes, $IC_{50} = 20\mu\text{mol/L}$, SI = 1.06, control Pentostam, $IC_{50} = 9.75\mu\text{g/mL}$, SI = 34.90); antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 69.6\mu\text{mol/L}$, SI = 0.30; control Chloroquine, $IC_{50} = 0.59\mu\text{mol/L}$, SI = 272.20); antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, $IC_{50} = 1.75\mu\text{mol/L}$, SI = 12.11, control Pentamidine, $IC_{50} = 0.00034\mu\text{mol/L}$, SI = 500); cytotoxic (KB cells, $IC_{50} = 21.2\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.17\mu\text{mol/L}$). **Source:** *Guarea rhopalocarpa* (leaf). **Ref:** 5127.

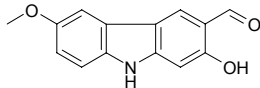
**12488 Lanosterol**

Lanosta-8,24-dien-3 β -ol [79-63-0] $C_{30}H_{50}O$ (426.73). mp 140–141°C. **Pharm:** Precursor to biosynthesis of sterol (in animals and in non-photosynthetic plants). **Source:** GOU QI ZI *Lycium chinense*, HOU PI SHU *Lansea grandis* [Syn. *Lansea coromandelica*], YI PIN HONG *Euphorbia pulcherrima*, A LI HONG *Fomes officinalis*, GUA JIN DENG *Physalis alkekengi* var. *franchetii*, LUO TUO PENG ZI *Peganum harmala*, QIE ZI *Solanum melongena*, SAN JIAO YE SHU YU *Dioscorea deltoidea*, TIAN QIE ZI *Solanum indicum*, YOU GAN LAN *Olea europaea*, YU MI HEI MEI *Ustilago maydis*, ZHANG LIU TOU *Costus speciosus*. **Ref:** 6, 658, 660.

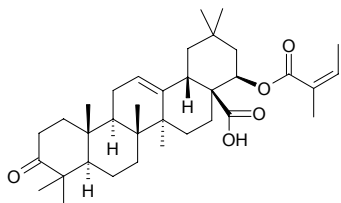


12489 Lansine

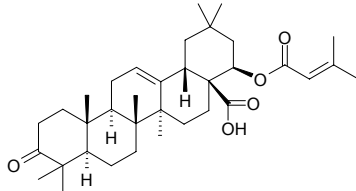
$C_{14}H_{11}NO_3$ (241.25). Yellow needles. **Pharm:** Antitubercular (MIC = $(31.5 \pm 0.2) \mu\text{g/mL}$, control Rifampin, MIC = $(0.040 \pm 0.017) \mu\text{g/mL}$); cytotoxic (vero, $IC_{50} > 102 \mu\text{g/mL}$, Rifampin, $IC_{50} = 100 \mu\text{g/mL}$). **Source:** YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). **Ref:** 5072.

**12490 Lantadene A**

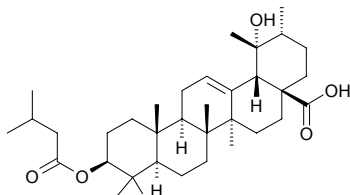
[467-81-2] $C_{35}H_{52}O_5$ (552.80). mp 282~286°C. **Pharm:** Anti-androgenic (testosterone 5α -reductase inhibitor, $50 \mu\text{g/mL}$, InRt = 75.08%, control Glabridine, $50 \mu\text{g/mL}$, InRt = 48.20%)^[4106]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), WU SE MEI *Lantana camara*. **Ref:** 6, 253, 4106.

**12491 Lantadene B**

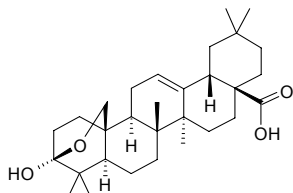
[467-82-3] $C_{35}H_{52}O_5$ (552.80). mp 295~300°C (dec). **Pharm:** Anti-androgenic (testosterone 5α -reductase inhibitor, $50 \mu\text{g/mL}$, InRt = 72.49%, control Glabridine, $50 \mu\text{g/mL}$, InRt = 48.20%)^[4106]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), WU SE MEI *Lantana camara*. **Ref:** 6, 253, 4106.

**12492 Lantaiursolic acid**

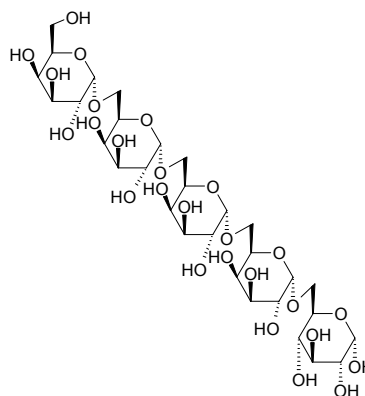
$C_{35}H_{56}O_5$ (556.83). **Source:** WU SE MEI *Lantana camara*. **Ref:** 254.

**12493 Lantanolic acid**

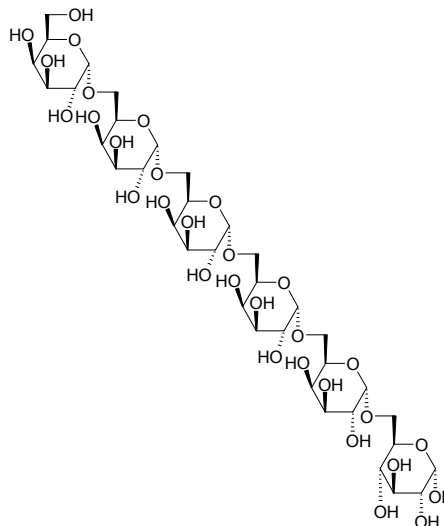
[32303-26-7] $C_{30}H_{46}O_4$ (470.70). mp 306~309°C. **Pharm:** Anti-androgenic (testosterone 5α -reductase inhibitor, $50 \mu\text{g/mL}$, InRt = 95.83%, control Glabridine, $50 \mu\text{g/mL}$, InRt = 48.20%)^[4106]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), WU SE MEI *Lantana camara*. **Ref:** 6, 254, 4106, 4309.

**12494 Lantanose A**

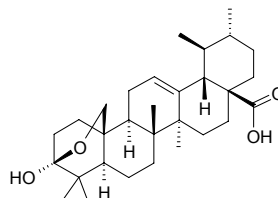
$C_{30}H_{52}O_{26}$ (828.73). White powder, $[\alpha]_D = +166$ ($c = 1.04$, H_2O). **Source:** WU SE MEI *Lantana camara*. **Ref:** 234.

**12495 Lantanose B**

$C_{36}H_{62}O_{31}$ (990.88). White powder, $[\alpha]_D = +114.2^\circ$ ($c = 1.06$, H_2O). **Source:** WU SE MEI *Lantana camara*. **Ref:** 234.

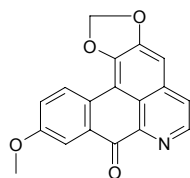
**12496 Lantic acid**

[22626-26-2] $C_{30}H_{46}O_4$ (470.70). Crystals, mp 256~259°C $[\alpha]_D^{35} = +152^\circ$ ($CHCl_3$). **Pharm:** Anti-androgenic (testosterone 5α -reductase inhibitor, $50 \mu\text{g/mL}$, InRt = 86.16%, control Glabridine, $50 \mu\text{g/mL}$, InRt = 48.20%)^[4106]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), WU SE MEI *Lantana camara*. **Ref:** 6, 1521, 4106.

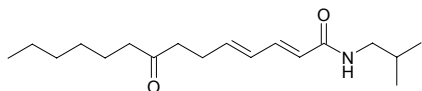


12497 Lanuginosine

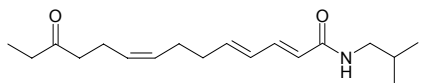
[23740-25-2] C₁₈H₁₁NO₄ (305.29). mp 302~303°C (dec). **Pharm:** Platelet aggregation inhibitor inactive (rat blood: 2~5μmol/L ADP-induced, IC₅₀ > 1000μmol/L, control Acetylsalicylic acid, IC₅₀ > 1000μmol/L; 2~5μg/mL collagen-induced, IC₅₀ > 500μmol/L, Acetylsalicylic acid, IC₅₀ = 420μmol/L; 1~4μmol/L epinephrine-induced with threshold concentration of collagen (0.8~1.0μg/mL), IC₅₀ > 100μmol/L, Acetylsalicylic acid, IC₅₀ = 53μmol/L; 10~40μmol/L AA-induced with threshold concentration of collagen (0.8~1.0μg/mL), IC₅₀ > 100μmol/L, Acetylsalicylic acid, IC₅₀ = 66μmol/L; 1~5μmol/L U46619-induced with threshold concentration of collagen (0.8~1.0μg/mL), IC₅₀ > 100μmol/L, Acetylsalicylic acid, IC₅₀ = 340μmol/L)^[5381]; antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, IC₅₀ > 250μg/mL, IC₉₀ > 250μg/mL)^[3976]. **Source:** RI BEN HOU PO *Magnolia obovata* (leaf), XIN YI *Magnolia liliflora*, *Gutteria boliviana* (stem cortex). **Ref:** 6, 3976, 5381.

**12498 Lanyuamide I**

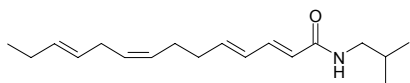
C₁₈H₃₁NO₂ (293.45). Colorless oil. **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifoliolum*. **Ref:** 2176, 2360.

**12499 Lanyuamide II**

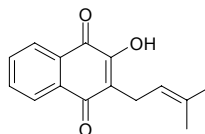
C₁₈H₂₉NO₂ (291.44). Colorless oil. **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifoliolum*. **Ref:** 2176, 2360.

**12500 Lanyuamide III**

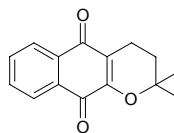
C₁₈H₂₉NO (275.44). Colorless oil. **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifoliolum*. **Ref:** 2176, 2360.

**12501 Lapachol**

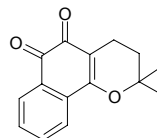
Greenhartin [84-79-7] C₁₅H₁₄O₃ (242.28). mp 140°C. **Pharm:** Antineoplastic (rat Walker sarcoma and mus P₃₈₈); antimalarial; antitrypanosomal; cytotoxic (high dose); immunoenhancer (low dose); herbicide (*Chlorella fytisca*)^[4467]; antifungal (*Ustilago violacea*)^[4467]; antibacterial (gram-positive bacteria *Bacillus megaterium*)^[4467]. **Source:** DIAO DENG SHU *Kigelia pinnata*, FEI ZHOU ZI WEI *Newbouldia laevis* (seed, root cortex and stem cortex), HUANG JIN *Hibiscus tiliaceus*. **Ref:** 5, 658, 4467.

**12502 α-Lapachone**

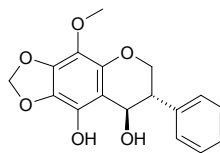
[4707-33-9] C₁₅H₁₄O₃ (242.28). mp 117°C. **Source:** ZI MU *Catalpa ovata*. **Ref:** 6.

**12503 β-Lapachone**

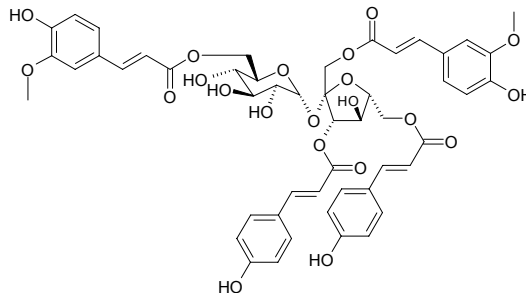
[4707-32-8] C₁₅H₁₄O₃ (242.28). **Pharm:** Antimicrobial; reverse transcriptase inhibitor; antineoplastic. **Source:** YOU MU *Tectona grandis*. **Ref:** 658.

**12504 Lapathinol**

C₁₇H₁₆O₆ (316.31). **Source:** YU LIAO *Polygonum lapathifolium*. **Ref:** 660.

**12505 Lapathoside A**

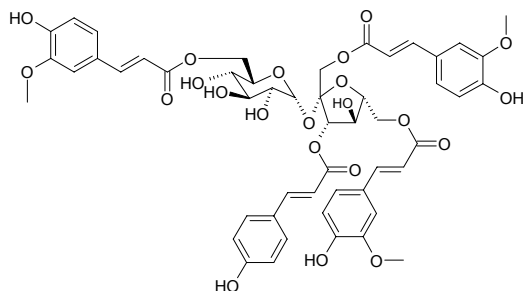
C₅₀H₅₀O₂₁ (986.94). Amorphous powder, [α]_D = 22.68° (c = 0.26, MeOH). **Source:** YU LIAO *Polygonum lapathifolium* (aerial parts). **Ref:** 3091.



12506 Lapatioside B

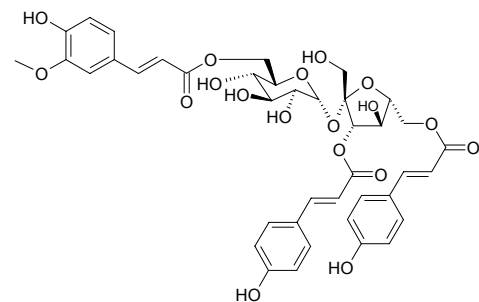
$C_{51}H_{52}O_{22}$ (1016.97). Amorphous powder, $[\alpha]_D = 18.56^\circ$ ($c = 0.20$, MeOH).

Source: YU LIAO *Polygonum lapathifolium* (aerial parts). Ref: 3091.

**12507 Lapatioside C**

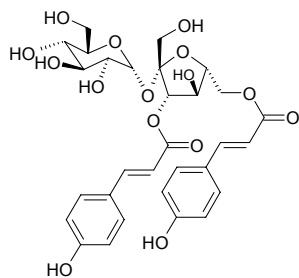
$C_{40}H_{42}O_{18}$ (810.77). Amorphous powder, $[\alpha]_D = -14.66^\circ$ ($c = 0.23$, MeOH).

Source: YU LIAO *Polygonum lapathifolium* (aerial parts). Ref: 3091.

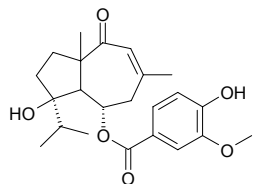
**12508 Lapatioside D**

$C_{30}H_{34}O_{15}$ (634.6). Amorphous powder, $[\alpha]_D = 10.30^\circ$ ($c = 0.15$, MeOH).

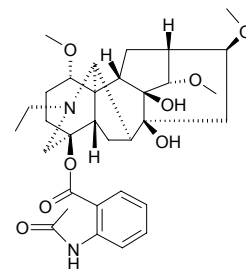
Source: YU LIAO *Polygonum lapathifolium* (aerial parts). Ref: 3091.

**12509 Lapidol vanillate**

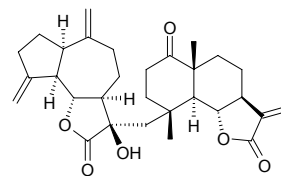
$C_{23}H_{30}O_6$ (402.49). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**12510 Lappaconitine**

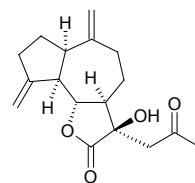
$C_{32}H_{44}N_2O_8$ (584.72). White columnar crystals (acetone), mp 224–225°C, $[\alpha]_D = +29.90^\circ$ ($c = 0.7$, chloroform). Pharm: Analgesic (hot plate model, murine writhing model and murine tail-swing model); antiarrhythmic (rat, caused by 0.07mg/kg 3-acetylaconitine, ED = 0.5mg/kg); anti-inflammatory (rat, caused by formaldehyde); antipyretic (mus with artificial fever by triad-vaccine); local anesthetic; anti-inflammatory (modified assay of Berridge, 100µg/mL, InRt = 29.34%)^[5271]; tyrosinase inhibitor (IC₅₀ = (93.33±0.16)µmol/L, control Kojic acid, IC₅₀ = (16.67±0.52)µmol/L, L-Mimosine, IC₅₀ = (3.68±0.02)µmol/L)^[5271]; antioxidant (DPPH scavenger, 1µmol/L, ScRt = 12.0%; control 3-*t*-Butyl-4-hydroxyanisole, 1µmol/L, ScRt = 92.5%)^[5271]; LD₅₀ (mus, iv) = 6.9mg/kg, (mus, ip) = 9.1mg/kg, (mus, orl) = 20mg/kg. Source: BEI FANG WU TOU *Aconitum septentrionale*, GAN WAN WU TOU *Aconitum finetianum*, GAO JIA SUO WU TOU *Aconitum orientale*, GAO WU TOU *Aconitum sinomontanum*, KE SHEN MI ER CUI QUE *Delphinium cashmerianum*, NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], ZI HUA GAO WU TOU *Aconitum excelsum*, *Aconitum leave* (aerial parts). Ref: 658, 660, 846, 5271.

**12511 Lappadilactone**

$C_{30}H_{38}O_6$ (494.63). Colorless needles, mp 260°C (dec), $[\alpha]_D^{25} = +32.2^\circ$ ($c = 1.0$, CHCl₃). Pharm: Cytotoxic (*in vitro*, HepG₂, CD₅₀ = 2.4µg/mL; HeLa, CD₅₀ = 1.8µg/mL; OVCAR-3, CD₅₀ = 2.5µg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8µg/mL; HeLa, CD₅₀ = 5.2µg/mL; OVCAR-3, CD₅₀ = 3µg/mL; without significant antibacterial effect). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0002%dw). Ref: 4720.

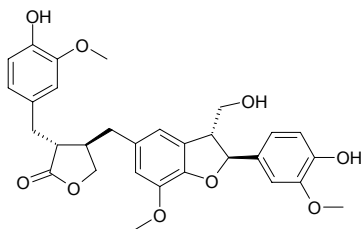
**12512 Lappalone**

$C_{17}H_{22}O_4$ (290.36). Pharm: Cytotoxic (*in vitro*, HepG₂, CD₅₀ > 100µg/mL; HeLa, CD₅₀ > 100µg/mL; OVCAR-3, CD₅₀ > 100µg/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8µg/mL; HeLa, CD₅₀ = 5.2µg/mL; OVCAR-3, CD₅₀ = 3µg/mL). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.00018%dw). Ref: 4720.

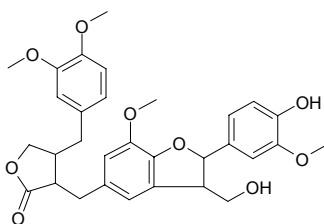


12513 Lappaol A

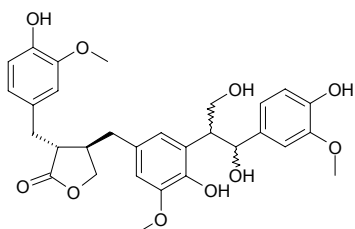
$C_{30}H_{32}O_9$ (536.58). Source: NIU BANG ZI *Arctium lappa* (dried ripe fruit: content scope of 11 origins = 0.024%~0.389%, mean content = 0.205%^[5508]). Ref: 660, 5508.

**12514 Lappaol B**

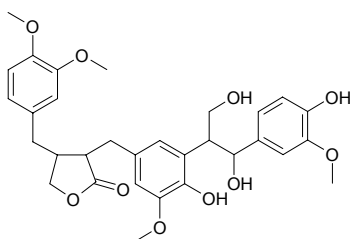
$C_{31}H_{34}O_9$ (550.61). Source: NIU BANG ZI *Arctium lappa*. Ref: 660.

**12515 Lappaol C**

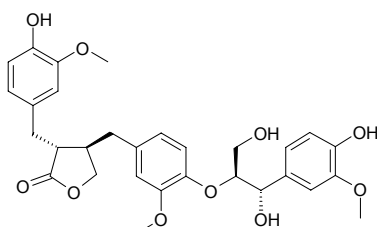
$C_{30}H_{34}O_{10}$ (554.60). Source: NIU BANG ZI *Arctium lappa*. Ref: 660.

**12516 Lappaol D**

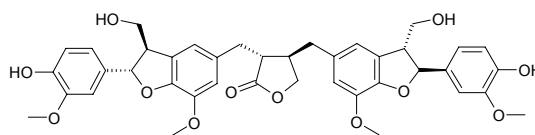
$C_{31}H_{36}O_{10}$ (568.63). Source: NIU BANG ZI *Arctium lappa*. Ref: 660.

**12517 Lappaol E**

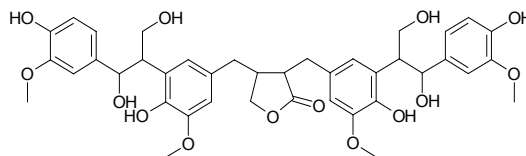
$C_{30}H_{34}O_{10}$ (554.60). Source: NIU BANG ZI *Arctium lappa*. Ref: 660.

**12518 Lappaol F**

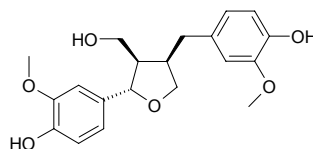
$C_{40}H_{42}O_{12}$ (714.77). Source: NIU BANG ZI *Arctium lappa* (dried ripe fruit: content scope of 11 origins = 0.004%~0.226%, mean content = 0.094%^[5508]). Ref: 660, 5508.

**12519 Lappaol H**

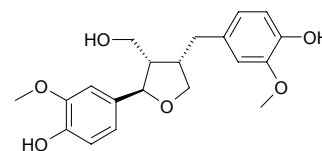
$C_{40}H_{46}O_{14}$ (750.80). Source: NIU BANG ZI *Arctium lappa*. Ref: 660.

**12520 (+)-Lariciresinol**

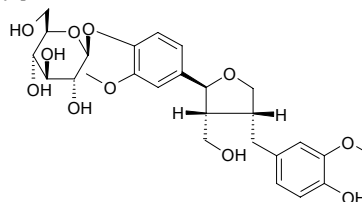
(7*S*,8*R*,8'*R*)-(+)-Lariciresinol [27003-73-2] $C_{20}H_{24}O_6$ (360.41). Colorless amorphous powder. Pharm: NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3μmol/L, 10μmol/L, 30μmol/L, 100μmol/L, InRt = 3%, 5.5%, -8.2%, 11.9%, respectively; control *L*-NMMA, 3μmol/L, 10μmol/L, 30μmol/L, 100μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691], β-hexosaminidase release inhibitor (RBL-2H3 cells, 100μmol/L, InRt = (14.0±4.8)%)^[4347]. Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.00014%dw)^[4779], MENG GU HUANG QI *Astragalus mongholicus*, XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.018%dw)^[4691], YI YE TIE SHAN *Tsuga heterophylla* (sapwood), ZHAI YE NAN YANG SHAN *Araucaria angustifolia*. Ref: 660, 3965, 4347, 4691, 4779.

**12521 (-)-Lariciresinol**

$C_{20}H_{24}O_6$ (360.41). Source: RUI XIANG GEN *Daphne odora*, SHAN GAN RUI XIANG *Daphne tangutica*, *Eurycoma* sp. Ref: 1521, 4556.

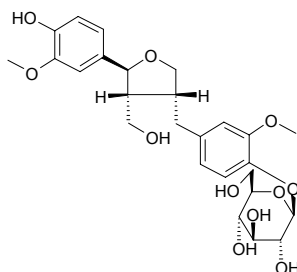
**12522 (+)-1-Lariciresinol-4'-β-D-glucopyranoside**

$C_{26}H_{34}O_{11}$ (522.55). Amorphous powder. Source: FENG MAO JU *Saussurea japonica*. Ref: 2179.

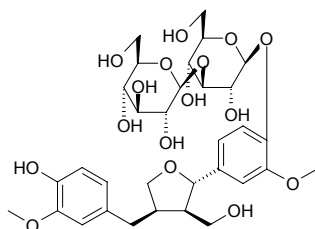


12523 (+)-Lariciresinol-4- β -D-glucopyranoside

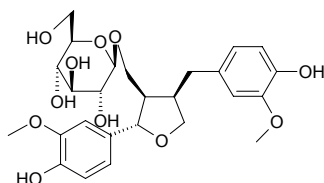
$C_{26}H_{34}O_{11}$ (522.55). Yellowish amorphous powder. **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits LPS-activated production of TNF- α in RAW264.7 cells, IC_{50} = 50~100 μ mol/L)^[4416]. **Source:** FENG MAO JU *Saussurea japonica*, RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 2179, 4416.

**12524 (+)-Lariciresinol-4'-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside**

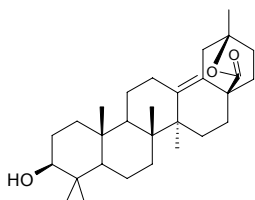
$C_{32}H_{44}O_{16}$ (684.70). Amorphous powder, $[\alpha]_D^{25}$ = -20.0° (c = 0.252, MeOH). **Source:** BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). **Ref:** 4363.

**12525 Lariciresinol-9-O- β -D-glucoside**

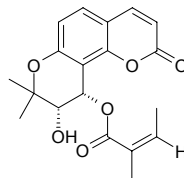
$C_{26}H_{34}O_{11}$ (522.55). **Source:** WU GONG CAO *Pteris vittata*, YI DALI JIASNG NAN XING *Arum italicum* **Ref:** 660, 1521.

**12526 Larreagenin A**

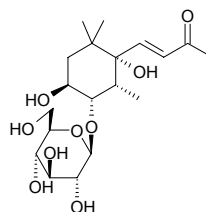
$C_{29}H_{44}O_3$ (440.67). **Source:** JI CHA KAI LA RUI A *Larrea divaricata*, LUO KUI SHU *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*] **Ref:** 660.

**12527 D-Laserpitin**

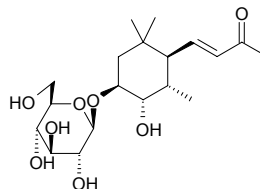
$C_{19}H_{20}O_6$ (344.37). Yellowish hyaloid, $[\alpha]_D^{20}$ = +92.3° (c = 0.53, $CHCl_3$). **Source:** QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. **Ref:** 9.

**12528 Lasianthionoside A**

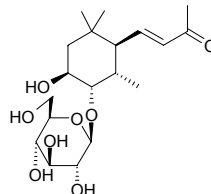
$C_{19}H_{32}O_9$ (404.46). Colorless needles, mp 209~210°C, $[\alpha]_D^{25}$ = -76° (c = 0.87, C_5H_5N). **Source:** *Lasianthus fordii* (leaf). **Ref:** 3774.

**12529 Lasianthionoside B**

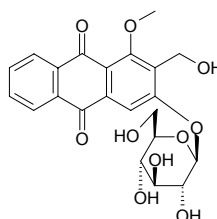
$C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{25}$ = -54.0° (c = 0.55, MeOH). **Source:** *Lasianthus fordii* (leaf). **Ref:** 3774.

**12530 Lasianthionoside C**

(3*S*,4*S*,6*S*,7*E*)-3,4-Dihydroxymegastigman-7-en-9-one-4-O- β -D-glucopyranoside $C_{19}H_{32}O_8$ (388.46). Colorless needles, mp 180~181°C, $[\alpha]_D^{25}$ = -55.7° (c = 0.26, MeOH). **Source:** *Lasianthus fordii* (leaf). **Ref:** 3774.

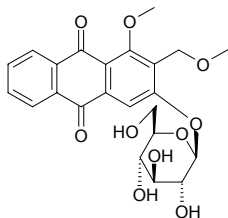
**12531 Lasianthuoside A**

3-Hydroxy-1-methoxy-2-hydroxymethyl-9,10-anthraquinone-3-O- β -D-glucopyranoside $C_{22}H_{22}O_{10}$ (446.41). Yellow needles, mp 223~225°C (MeOH). **Pharm:** Cytotoxic (hmn OVCAR-2780 Cells, IC_{50} = 0.84 μ g/mL); TNF- α release inhibitor (cultured mouse peritoneal macrophages, IC_{50} > 10 μ g/mL). **Source:** CHANG WEI CU YE MU *Lasianthus acuminatissimus* (root: yield = 0.00073%dw). **Ref:** 1605.

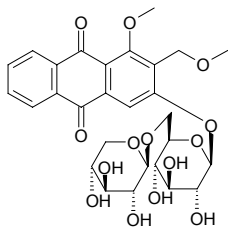


12532 Lasianthuoid B

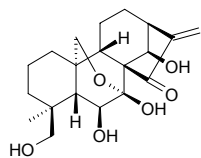
3-Hydroxy-1-methoxy-2-methoxymethylanthraquinone-3-*O*- β -D-glucopyranoside C₂₃H₂₄O₁₀ (460.44). Yellow needles, mp 224–226°C (MeOH). **Pharm:** Cytotoxic (hmn OVCAR-2780 Cells, IC₅₀ = 1 μ g/mL); TNF- α release inhibitor (cultured mouse peritoneal macrophages, IC₅₀ > 10 μ g/mL). **Source:** CHANG WEI CU YE MU *Lasianthus acuminatissimus* (root: yield = 0.00055%dw). **Ref:** 1605.

**12533 Lasianthuoid C**

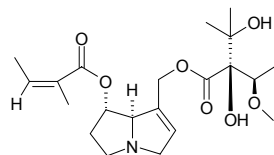
3-Hydroxy-1-methoxy-2-methoxymethylanthraquinone-3-*O*- β -D-primeveroside C₂₈H₃₂O₁₄ (592.56). Yellow needles, mp 238–240°C (MeOH). **Pharm:** Cytotoxic (hmn OVCAR-2780 Cells, IC₅₀ < 0.1 μ g/mL); TNF- α release inhibitor (cultured mouse peritoneal macrophages, IC₅₀ > 10 μ g/mL). **Source:** CHANG WEI CU YE MU *Lasianthus acuminatissimus* (root: yield = 0.00025%dw). **Ref:** 1605.

**12534 Lasiocarpinin**

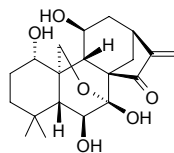
C₂₀H₂₈O₆ (364.44). Amorphous powder, [α]_D²⁷ = -59.4° (c = 0.4, MeOH). **Source:** CU GUO XIANG CHA CAI *Isodon lasiocarpa*. **Ref:** 4067.

**12535 Lasiocarpine**

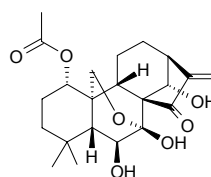
[303-34-4] C₂₁H₃₃NO₇ (411.50). mp 95°C. **Pharm:** Antineoplastic (rat, Walker carcinoma, liver cancer and sarcoma S45); antispasmodic (gpg, inhibits ileal contraction caused by BaCl₂ and *N*-formyl sinkaline); carcinogen (rat liver, skin, and small intestine); mutagen (Ames, drosophila, DNA recondition, cell culture experiments). **Source:** CU XI MEN FEI CAO *Symphytum asperum*, DA BAI DING CAO *Senecio oryzetorum*, MAO GUO TIAN JIE CAI *Heliotropium lasiocarpum*, OU ZHOU TIAN JIE CAI *Heliotropium europaeum*, XI MEN FEI CAO *Symphytum officinale*, YAN TIAN JIE CAI *Heliotropium curassavicum*, YAO YONG DAO TI HU *Cynoglossum officinale*, YING MAO TIAN JIE CAI *Heliotropium hirsutum*, ZHONG JIAN HE SHI *Lappula intermedia*. **Ref:** 5, 6, 658.

**12536 Lasiodonin**

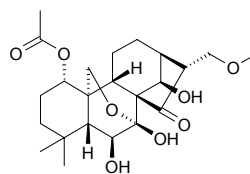
[38602-52-7] C₂₀H₂₈O₆ (364.44). mp 252–254°C (dec), [α]_D¹⁷ = -100° (c = 1.0, C₅H₅N). **Pharm:** Cytotoxic (K562, IC₅₀ = 5.35 μ mol/L, control Cisplatin IC₅₀ = 3.84 μ mol/L; Bcap37, IC₅₀ = 112.53 μ mol/L, control Cisplatin IC₅₀ = 1.54 μ mol/L) [4353]. **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), CU GUO XIANG CHA CAI *Isodon lasiocarpa*. **Ref:** 4067, 4353.

**12537 Lasiokaurin**

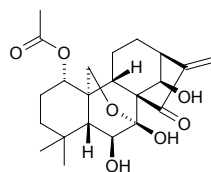
[28957-08-6] C₂₂H₃₀O₇ (406.48). Colorless needles (MeOH), mp 237–241°C, [α]_D²³ = -57° (c = 0.2, EtOH); mp 223–226°C, [α]_D = -68° (c = 0.05, EtOH); mp 226–229°C. **Pharm:** Cytotoxic (DNA-damaging activity, mutant yeast strain RAD 52Y, IC₁₂ = 90 μ g/mL, control Streptonigrin, IC₁₂ = 0.4 μ g/mL; wild type yeast strain RAD+, IC₁₂ > 100 μ g/mL, control Streptonigrin, IC₁₂ = 1.0 μ g/mL) [5348]; antineoplastic (EAC *in vivo*, 10mg/(kg-d), 7 days ip, biotic prolonged rate = 70.6%; HAC *in vivo*, 10mg/(kg-d), 7 days ip, biotic prolonged rate = 109.7%); antibacterial (*Staphylococcus aureus*, MIC = 15.6 μ g/mL; *Sarcina gamboge*, MIC = 7.8 μ g/mL; *Bacillus coli*, MIC \geq 250 μ g/mL; *Bacillus termo*, MIC \geq 250 μ g/mL); LD₅₀ (mus, ip) > 70mg/kg. **Source:** MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], MIAN MAO GUO XIANG CHA CAI *Isodon lasiocarpus*, XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. **Ref:** 4, 504, 661, 5348.

**12538 Lasiokaurinin**

C₂₃H₃₄O₈ (438.52). mp 219–222°C (dec), [α]_D²⁷ = -14° (c = 0.032, MeOH). **Source:** CU GUO XIANG CHA CAI *Isodon lasiocarpa*. **Ref:** 4067.

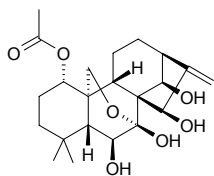
**12539 Lasiokaurin (Lasiodin)**

C₂₂H₃₀O₇ (406.48). mp 228–229°C, [α]_D¹⁷ = -94° (c = 1.0, C₅H₅N). **Source:** CU GUO XIANG CHA CAI *Isodon lasiocarpa*. **Ref:** 4067.

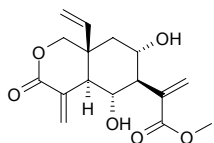


12540 Lasiokaurinol

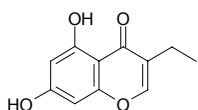
$C_{22}H_{32}O_7$ (408.50). mp 143~147°C, 218~221°C (dec), $[\alpha]_D^{27} = -12^\circ$ ($c = 0.085$, MeOH). Source: CU GUO XIANG CHA CAI *Isodon lasiocarpa*. Ref: 4067.

**12541 Lasiopulide**

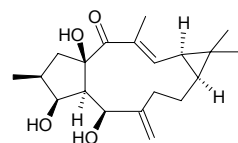
$C_{16}H_{20}O_6$ (308.33). mp 141°C, $[\alpha]_D^{25} = +56.3^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, hmn colon carcinoma cell lines HCT15, $IC_{50} = (109.79 \pm 4.06) \mu\text{mol/L}$, control 5-Fluorouracil, $IC_{50} = 66 \mu\text{mol/L}$; colon carcinoma HT29, $IC_{50} = (6.5 \pm 0.3) \mu\text{mol/L}$, control 5-Fluorouracil, $IC_{50} = 49 \mu\text{mol/L}$; breast carcinoma T47D, $IC_{50} = (43.5 \pm 1.7) \mu\text{mol/L}$, control Adriamycin, $IC_{50} = 0.075 \mu\text{mol/L}$; cervix carcinoma SiHa, $97.4 \mu\text{mol/L}$, InRt = 18%, control 5-Fluorouracil, $IC_{50} = 0.034 \mu\text{mol/L}$). Source: *Vernonia lasiopus*. Ref: 5359.

**12542 Lathodoratin**

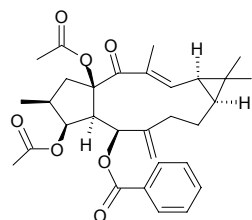
[76693-50-0] $C_{11}H_{10}O_4$ (206.20). Pharm: Antifungal (*Cladosporium herbarum*). Source: XIANG WAN DOU *Lathyrus odoratus*. Ref: 658.

**12543 Lathyrol**

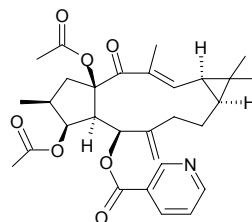
[34420-19-4] $C_{20}H_{30}O_4$ (334.46). Pharm: Carcinogen; irritant. Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 658.

**12544 Lathyrol-3,15-diacetate-5-benzoate**

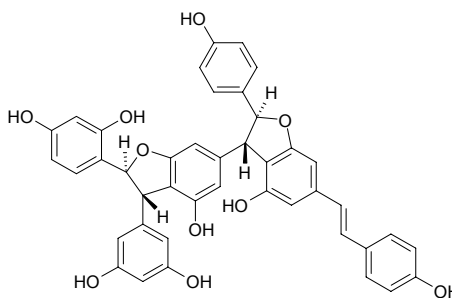
$C_{31}H_{38}O_7$ (522.64). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 660.

**12545 Lathyrol-3,15-diacetate-5-nicotinate**

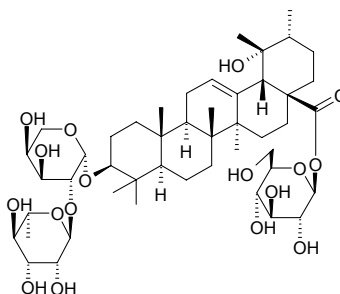
$C_{30}H_{37}NO_7$ (523.63). Source: QIAN JIN ZI *Euphorbia lathyris*. Ref: 660.

**12546 Latifolol**

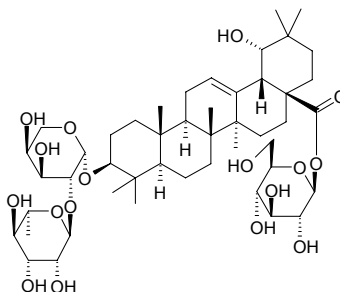
$C_{42}H_{32}O_{10}$ (692.72). Brown amorphous powder. Source: KUAN YE MAI MA TENG *Gnetum latifolium*. Ref: 1940.

**12547 Latifoloside A**

$C_{47}H_{76}O_{17}$ (913.12). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

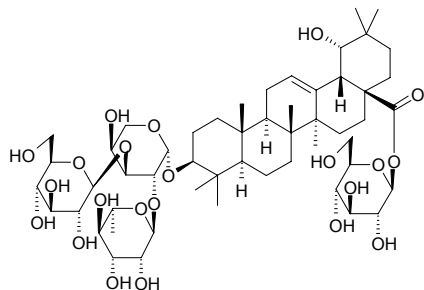
**12548 Latifoloside B**

$C_{47}H_{76}O_{17}$ (913.12). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

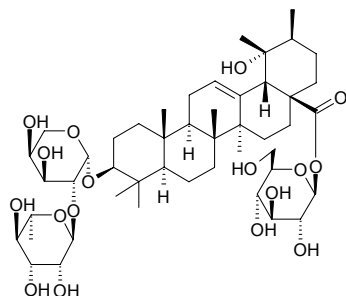


12549 Latifolioside C

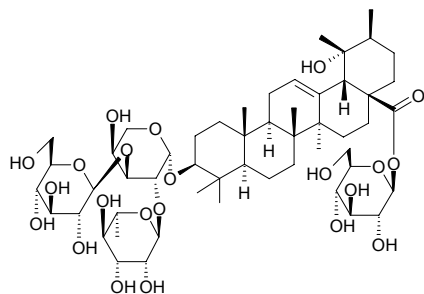
$C_{53}H_{86}O_{22}$ (1075.26). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12550 Latifolioside D**

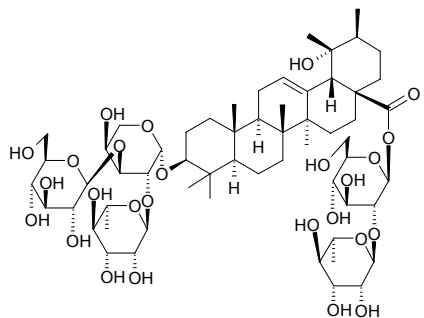
$C_{47}H_{76}O_{17}$ (913.12). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12551 Latifolioside E**

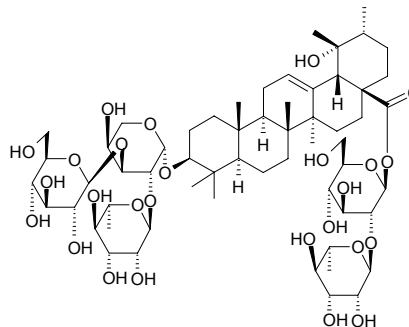
$C_{53}H_{86}O_{22}$ (1075.26). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12552 Latifolioside F**

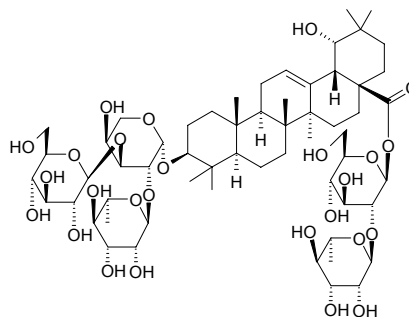
$C_{59}H_{96}O_{26}$ (1221.41). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12553 Latifolioside G**

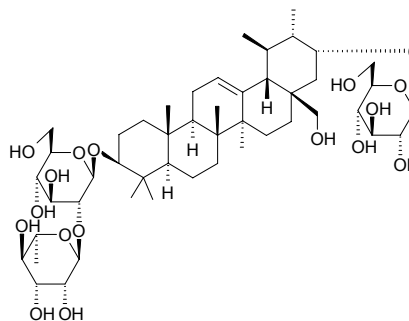
$C_{59}H_{96}O_{26}$ (1221.41). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12554 Latifolioside H**

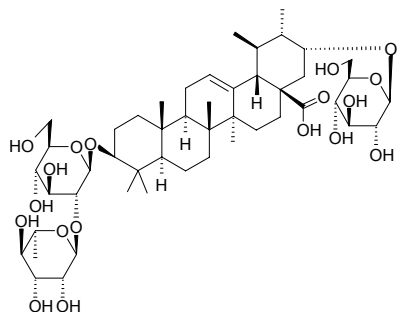
$C_{59}H_{96}O_{26}$ (1221.41). Source: DA YE DONG QING *Ilex latifolia*. Ref: 2160.

**12555 Latifolioside I**

3-*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-3 β ,21 α ,28-trihydroxy-urs-12-ene 21-*O*- β -D-glucopyranoside $C_{48}H_{80}O_{17}$ (929.16). $[\alpha]_D^{25} = +36.7^\circ$ ($c = 0.21$, MeOH). Source: DA YE DONG QING *Ilex latifolia* (bark). Ref: 3511.

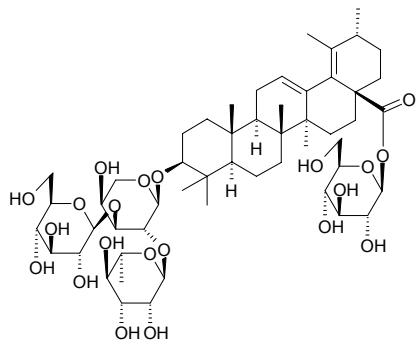
**12556 Latifolioside J**

3-*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-3 β ,21 α -dihydroxy-ursolic acid 21-*O*- β -D-glucopyranoside $C_{48}H_{78}O_{18}$ (943.15). $[\alpha]_D^{25} = +7.4^\circ$ ($c = 0.67$, MeOH). Source: DA YE DONG QING *Ilex latifolia* (bark). Ref: 3511.

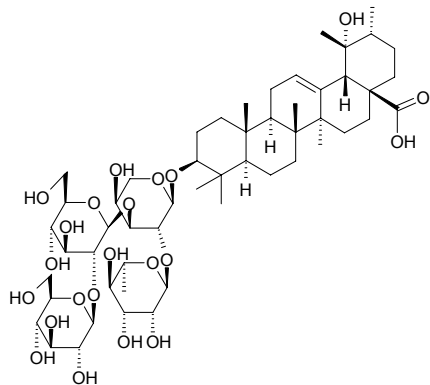


12557 Latifoloside K

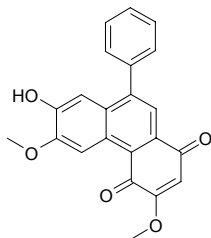
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl 3 β -hydroxy-urs-12,18-dien-28-oic acid 28-*O*- β -*D*-glucopyranosyl ester C₅₃H₈₄O₂₁ (1057.25). Colorless powder, $[\alpha]_D^{25} = +0.74^\circ$ ($c = 0.78$, MeOH). Source: DA YE DONG QING *Ilex latifolia* (bark). Ref: 3540.

**12558 Latifoloside L**

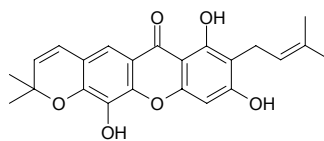
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl 3 β ,19 α -dihydroxyursolic acid C₅₃H₈₆O₂₂ (1075.26). Colorless powder, $[\alpha]_D^{25} = +7.46^\circ$ ($c = 0.35$, MeOH). Source: DA YE DONG QING *Ilex latifolia* (bark). Ref: 3540.

**12559 Latinone**

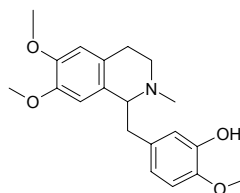
C₂₂H₁₆O₅ (360.37). Pharm: Testosterone 5 α -reductase inhibitor (25 μ g/mL, InRt = 42.8%, 50 μ g/mL, InRt = 52.0%, 100 μ g/mL, InRt = 65.6%; control Glycyrrhetic acid, 25 μ g/mL, InRt = 31.7%, 50 μ g/mL, InRt = 64.7%, 100 μ g/mL, InRt = 87.1%). Source: JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0014%dw). Ref: 4716.

**12560 Latisxanthone D**

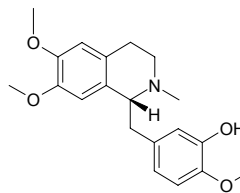
C₂₃H₂₂O₆ (394.43). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**12561 dl-Laudanidine**

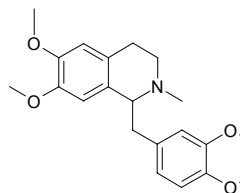
C₂₀H₂₅NO₄ (343.43). Source: YING SU *Papaver somniferum*, CU GUO TANG SONG CAO *Thalictrum dasycarpum*. Ref: 658.

**12562 Laudanine**

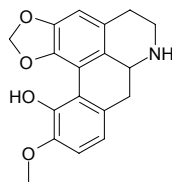
[301-21-3] C₂₀H₂₅NO₄ (343.43). mp 181~182°C, mp 184~185°C, $[\alpha]_D^{28} = -101^\circ$ (EtOH). Pharm: Causes convulsion and paralysis (L-isomer, high dose). Source: YA PIAN *Papaver somniferum*. Ref: 6, 1521.

**12563 Laudanosine**

[2688-77-9] C₂₁H₂₇NO₄ (357.45). mp (+) 89°C. Pharm: Supertoxic agent (strong, tetanic spasm activity). Source: YING SU *Papaver somniferum*, YA PIAN *Papaver somniferum*. Ref: 6, 658.

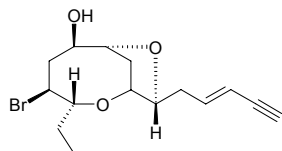
**12564 Launobine**

[20497-21-6] C₁₈H₁₇NO₄ (311.34). mp 214~215°C (dec). Pharm: Platelet aggregation inhibitor (rbt, 100 μ g/mL, induced by ADP, arachidonic acid, collagen and PAF); inhibits growth of green algae (< 10mmol/L). Source: DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], YUE GUI ZI *Laurus nobilis*, ZHEN CAI *Litsea pungens*. Ref: 6, 1751, 1752.

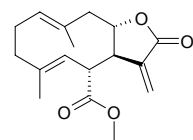


12565 Laurencin

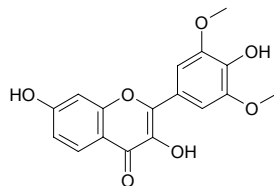
$C_{15}H_{21}BrO_3$ (329.24). Source: HUANG SE AO DING ZAO *Laurencia nipponica* (the compound was isolated from the plant by E.Fukuzawa, et al. in 1973). Ref: 5505.

**12566 Laurenbiolide**

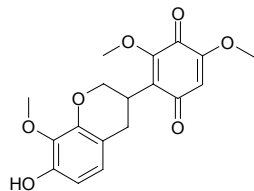
$C_{17}H_{22}O_4$ (290.36). Source: YUE GUI YE *Laurus nobilis*, YUE GUI ZI *Laurus nobilis*. Ref: 660.

**12567 Laurentinol**

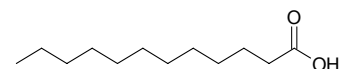
3,7,4'-Trihydroxy-3',5'-dimethoxyflavone $C_{17}H_{14}O_7$ (330.30). Green prisms, mp 206~208°C. Source: *Millettia laurentii*. Ref: 2319.

**12568 Laurentiquinone**

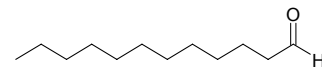
3',6'-Diketo-7-hydroxy-8,2',4'-trimethoxyisoflavan $C_{18}H_{18}O_7$ (346.34). Orange prisms (acetone), mp 205~207°C. Source: *Millettia laurentii*. Ref: 2319.

**12569 Lauric acid**

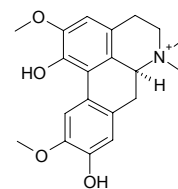
Lauric acid [143-07-7] $C_{12}H_{24}O_2$ (200.32). Pharm: Raw material for flavorant. Source: BA DOU *Croton tiglium*, BAN WEN LU HUI *Aloe vera* var. *chinensis*, BING LANG *Areca catechu*, CU LIU GUO *Hippophae rhamnoides*, DANG SHEN *Codonopsis pilosula*, FU LING *Portia cocos*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GUA LOU *Trichosanthes kirilowii*, HONG HUA *Carthamus tinctorius*, JI GUAN ZI *Celosia cristata* (seed), SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YE ZI RANG *Cocos nucifera*, YIN MIAN YU *Holoptelea integrifolia*, YOU ZONG *Elaeis guineensis*. Ref: 2, 658, 660.

**12570 Lauric aldehyde**

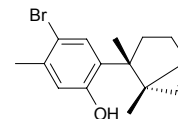
Dodecanal [112-54-9] $C_{12}H_{24}O$ (184.32). mp 44.5°C, bp 184~185°C/100mmHg. Source: YU XING CAO *Houttuynia cordata*. Ref: 6.

**12571 Laurifoline**

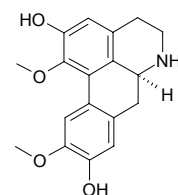
[7224-61-5] $C_{20}H_{24}NO_4^+$ (342.42). Pharm: Ganglionic blocker (curariform action); LD₅₀ (mus, ip) = 14mg/kg. Source: HENG ZHOU WU YAO *Cocculus laurifolius*, CHU YE HUA JIAO *Zanthoxylum ailanthoides*, HOU PI HUA JIAO *Zanthoxylum elephantiasis*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*. Ref: 6, 658.

**12572 Laurinterol**

$C_{15}H_{19}BrO$ (295.22). Pharm: Antibacterial (marine bacteria: *Alteromonas* sp., MIC = 5µg/disc; *Azomonas agilis*, MIC = 5µg/disc; *Azotobacter beijerinckii*, MIC = 15µg/disc; *Erwinia amylovora*, MIC = 5µg/disc; *Escherichia coli*, MIC = 5µg/disc; *Alcaligenes aquamarinus*, *Halobacterium* sp., *Halococcus* sp., no inhibition). Source: CHAO AO DING CAO *Laurencia nidifica*. Ref: 5191.

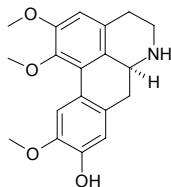
**12573 Laurolitsine**

(+)-Norboldine [5890-18-6] $C_{18}H_{19}NO_4$ (313.36). Maple amorphous powder, mp 113~115°C, 138~140°C, $[\alpha]_D^{20} = +101^\circ$ ($c = 0.69$, ethanol). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 250µg/mL); antimalarial (*Plasmodium falciparum* D₂, IC₅₀ = 1240ng/mL; W₂, IC₅₀ = 1680ng/mL); anti-HIV-1 (HIV-1 IN inhibitor, IC₅₀ = 7.7µmol/L; positive control Suramin, IC₅₀ = 2.4µmol/L)^[4224]; antimalarial (antiplasmodial, *Plasmodium falciparum* PoW, IC₅₀ = 3.1µg/mL; *Plasmodium falciparum* Dd2, IC₅₀ = 5.4µg/mL). Source: CHENG QIE ZI *Litsea cubeba*, DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*], ZHANG MU *Cinnamomum camphora*, DING HU DIAO ZHANG *Lindera chunii* (root), SHAO HUA XI PA MU *Siparuna pauciflora*. Ref: 6, 900, 1521, 3376, 4224.

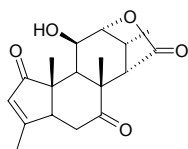


12574 Laurotetanine

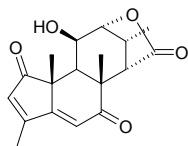
[128-76-7] $C_{19}H_{21}NO_4$ (327.38). mp 125°C. **Pharm:** Platelet aggregation inhibitor (rbt, 100µg/mL, strongly inhibits platelet aggregation induced by ADP); vasodilator (relaxes blood vessels, rat, 100µg/mL, inhibits aortal contraction induced by 80mmol/L potassium ion and 3µmol/L arterenol); antihypertensive (normal rat, 1.0µg/kg, blood pressure lowers by 29% in average, action holds 2min). **Source:** BI BA *Piper longum*, WU YE TENG *Cassytha filiformis*, ZHEN CAI *Litsea pungens*. **Ref:** 6, 1749, 1750.

**12575 Laurycolactone A**

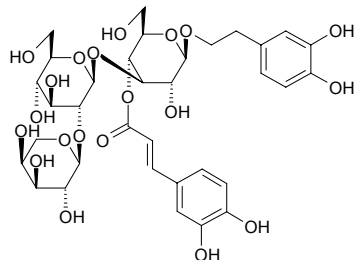
$C_{18}H_{22}O_5$ (318.37). **Source:** *Eurycoma* sp. **Ref:** 4556.

**12576 Laurycolactone B**

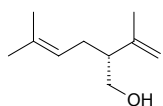
$C_{18}H_{20}O_5$ (316.36). **Source:** *Eurycoma* sp. **Ref:** 4556.

**12577 Lavandulifolioside**

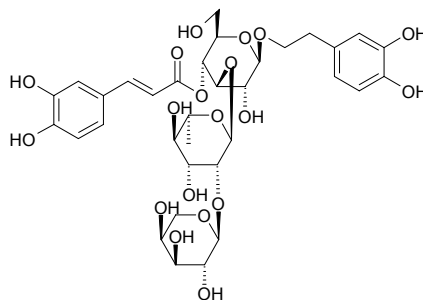
$C_{34}H_{44}O_{20}$ (772.72). **Source:** A LA BO PO PO NA *Veronica persica* (aerial parts), CHANG YE CHE QIAN *Plantago lanceolata*. **Ref:** 4211, 5020.

**12578 Lavandulol**

$C_{10}H_{18}O$ (154.25). **Source:** GAO BEN *Ligusticum sinense*. **Ref:** 660.

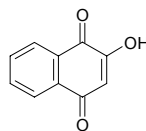
**12579 Lavansulifolioside**

$C_{34}H_{44}O_{19}$ (756.72). Amorphous powder. **Source:** HUI BAI YI MU CAO *Leonurus glaucescens*. **Ref:** 2499.

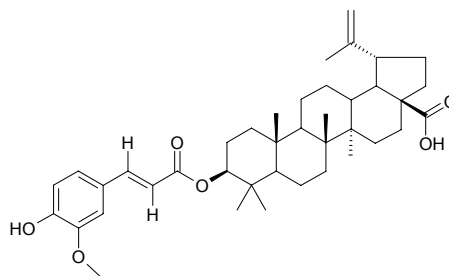
**12580 Lawsone**

2-Hydroxy-1,4-naphthalenedione [83-72-7] $C_{10}H_6O_3$ (174.16). mp 192°C.

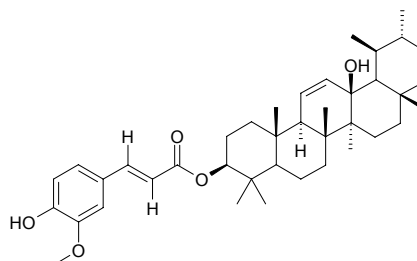
Pharm: Antifungal; hemostatic; stimulates cerebra. **Source:** BAI SAN MO HUA *Lawsonia alba*, FENG XIAN HUA *Impatiens balsamina*, JI XING ZI *Impatiens balsamina*, ZHI JIA HUA YE *Lawsonia inermis*. **Ref:** 6, 658.

**12581 Lawsonic acid**

3α-E-Ferulyloxy-lup-20(29)-en-28-oic acid $C_{40}H_{56}O_6$ (632.89). Amorphous powder, $[\alpha]_D^{26} = +7.8^\circ$ ($c = 0.76$, MeOH). **Source:** BAI SAN MO HUA *Lawsonia alba* (aerial parts). **Ref:** 5230.

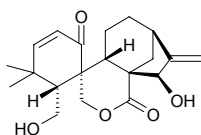
**12582 Lawsonin**

3α-E-Ferulyloxy-urs-11-en-13β-ol $C_{40}H_{58}O_5$ (618.91). Amorphous powder, $[\alpha]_D^{25} = +36.4^\circ$ ($c = 0.245$, MeOH). **Source:** BAI SAN MO HUA *Lawsonia alba* (aerial parts). **Ref:** 5230.

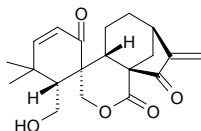


12583 Laxiflorin A

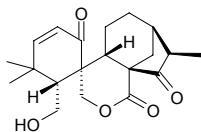
$C_{20}H_{26}O_5$ (346.43). mp 165~167°C, $[\alpha]_D^{27} = +71.3^\circ$ ($c = 0.06$, MeOH). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora*. Ref: 4067.

**12584 Laxiflorin B**

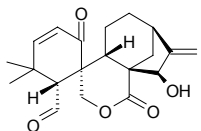
$C_{20}H_{24}O_5$ (344.41). mp 171~173°C, $[\alpha]_D = +75.3^\circ$ ($c = 0.09$, MeOH). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora*. Ref: 4067.

**12585 Laxiflorin C**

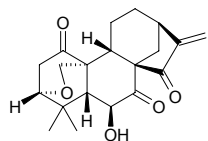
$C_{20}H_{26}O_5$ (346.43). mp 178~180°C, $[\alpha]_D = +95.9^\circ$ ($c = 0.14$, MeOH). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora*. Ref: 4067.

**12586 Laxiflorin D**

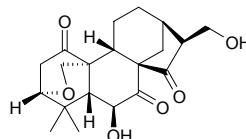
$C_{20}H_{24}O_5$ (344.41). mp 242~244°C, $[\alpha]_D^{23.0} = +137.6^\circ$ ($c = 0.616$, C_5H_5N). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora*. Ref: 899, 4067.

**12587 Laxiflorin J**

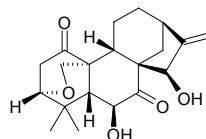
6 β -Hydroxy-3 α ,20-epoxy-*ent*-kaur-16-en-1,7,15-trione $C_{20}H_{24}O_5$ (344.41). Colorless crystals (Me_2CO), mp 180.5~182.5°C, $[\alpha]_D^{23.9} = -167.93^\circ$ ($c = 0.40$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 0.47\mu g/mL$; A549, $IC_{50} = 49.1\mu g/mL$; T24, $IC_{50} = 0.314\mu g/mL$; control cis-Platin: K562, $IC_{50} = 2.02\mu g/mL$; A549, $IC_{50} = 11.94\mu g/mL$; T24, $IC_{50} = 1.16\mu g/mL$). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.00021%dw). Ref: 4668.

**12588 Laxiflorin K**

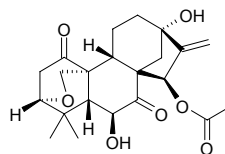
16(*S*)-6 β ,17-Dihydroxy-3 α ,20-epoxy-*ent*-kaur-1,7,15-trione $C_{20}H_{26}O_6$ (362.43). White powder, $[\alpha]_D^{11.7} = -65.17^\circ$ ($c = 0.29$, MeOH). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 11.9\mu g/mL$; T24, $IC_{50} = 1753\mu g/mL$; control cis-Platin: K562, $IC_{50} = 2.02\mu g/mL$; T24, $IC_{50} = 1.16\mu g/mL$). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.000048%dw). Ref: 4668.

**12589 Laxiflorin L**

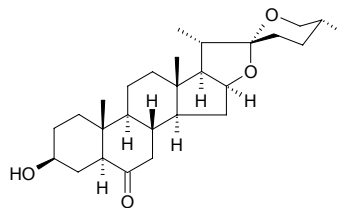
6 β ,15 β -Dihydroxy-3 α ,20-epoxy-*ent*-kaur-16-en-1,7-dione $C_{20}H_{26}O_5$ (346.43). Colorless needles (Me_2CO), mp 302.5~304°C, $[\alpha]_D^{15.1} = -131.84^\circ$ ($c = 0.20$, MeOH). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 1.13\mu g/mL$; A549, $IC_{50} = 24.7\mu g/mL$; T24, $IC_{50} = 5.16\mu g/mL$; control cis-Platin: K562, $IC_{50} = 2.02\mu g/mL$; A549, $IC_{50} = 11.94\mu g/mL$; T24, $IC_{50} = 1.16\mu g/mL$). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.000092%dw). Ref: 4668.

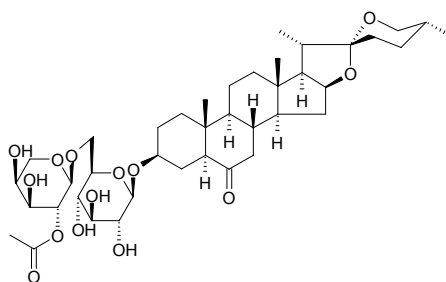
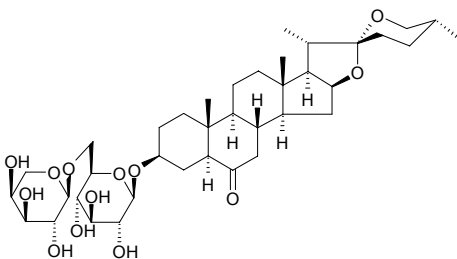
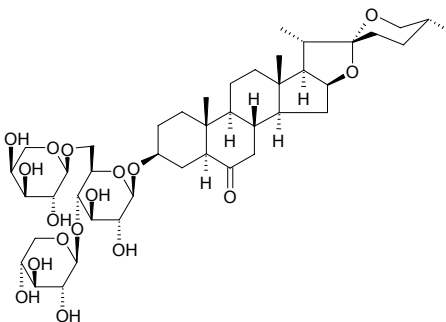
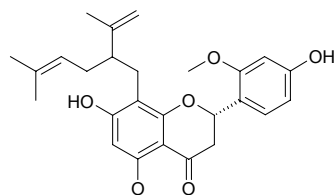
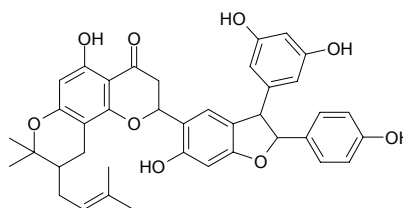
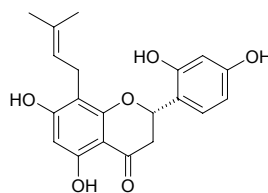
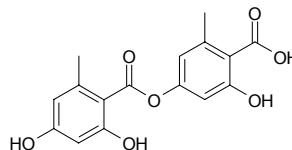
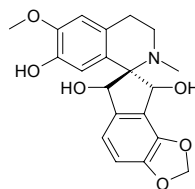
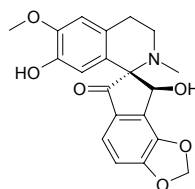
**12590 Laxiflorin M**

15 β -Acetoxy-6 β ,13 α -dihydroxy-3 α ,20-epoxy-*ent*-kaur-16-en-1,7-dione $C_{22}H_{28}O_7$ (404.46). Colorless needles (Me_2CO), mp 179.5~180.5°C, $[\alpha]_D^{15.2} = -56^\circ$ ($c = 0.25$, MeOH). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 219\mu g/mL$; control cis-Platin: K562, $IC_{50} = 2.02\mu g/mL$). Source: SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.00019%dw). Ref: 4668.

**12591 Laxogenin**

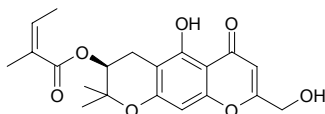
$C_{27}H_{42}O_4$ (430.63). mp 210°C. Pharm: Inhibits promotor of cancer (*in vitro*, lung cancer *in vivo*). Source: NIAN YU XU *Smilax sieboldii*, QIAO TOU *Allium chinense*. Ref: 6, 2165.



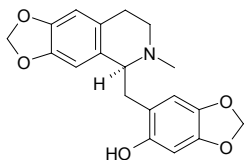
12592 Laxogenin 3-O-[O-(2-O-acetyl- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside)]C₄₀H₆₂O₁₄ (766.93). Amorphous solid, $[\alpha]_D^{30} = -62.9^\circ$ ($c = 0.1$, MeOH).Source: QIAO TOU *Allium chinense*. Ref: 710.**12593 Laxogenin 3-O-[O- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]**(25*R*)-3- β -Hydroxy-5 α -spirostan-6-one 3-O-[O- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside] C₃₈H₆₀O₁₃ (724.89). Amorphous solid, $[\alpha]_D^{30} = -98.7^\circ$ ($c = 0.25$, MeOH). Source: QIAO TOU *Allium chinense*. Ref: 710.**12594 Laxogenin 3-O-{O- β -D-xylopyranosyl-(1 \rightarrow 4)-O-[α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]}**C₄₃H₆₈O₁₇ (857.01). Amorphous solid, $[\alpha]_D^{27} = -71^\circ$ ($c = 0.12$, MeOH).Source: QIAO TOU *Allium chinense*. Ref: 710.**12595 Leachianone A**C₂₆H₃₀O₆ (438.53). Pharm: Cytotoxic (HL-60 cells)^[4430]. Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], LI QI HUIAI *Sophora leachiana*. Ref: 1521, 4430.**12596 Leachianone C**C₃₉H₃₈O₉ (650.73). Source: LI QI HUIAI *Sophora leachiana*. Ref: 1521.**12597 Leachianone G**C₂₀H₂₀O₆ (356.38). Pharm: Antibacterial (flabelline-resistance *Staphylococcus aureus*(MSRA), IC₅₀ = 12.5 μ g/mL); cytotoxic (hmn myeloid leukemia HL-60 cells, IC₅₀ = 11.3 μ mol/L; hmn hepatocarcinoma HepG2 cells, IC₅₀ = 13.3 μ mol/L). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.**12598 Lecanoric acid**C₁₆H₁₄O₇ (318.29). Source: LIAN ZUO GE JUN *Thelephora vialis*, MEI YI *Parmelia tinctorum*, SHI ER *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*]. Ref: 660.**12599 Ledeboridine**Ledebouridine C₂₀H₂₁NO₆ (371.39). Source: DUI YE YUAN HU *Corydalis ledebouriana*. Ref: 660.**12600 Ledeborine**Ledebourine C₂₀H₁₉NO₆ (369.38). Source: DUI YE YUAN HU *Corydalis ledebouriana*. Ref: 660.

12601 Ledebouriellol

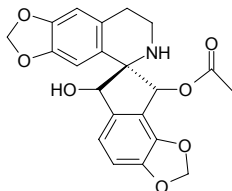
[84272-83-3] C₂₀H₂₂O₇ (374.39). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2, 660, 1521.

**12602 Ledecorine**

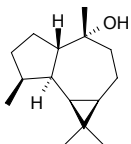
C₁₉H₁₉NO₅ (341.37). Source: DUI YE YUAN HU *Corydalis ledebouriana*, WEI LAN QIU GUO ZI JIN *Fumaria vaillantii*. Ref: 660, 1521.

**12603 Lederine**

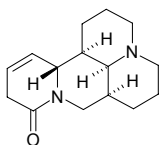
C₂₁H₁₉NO₇ (397.39). Source: DUI YE YUAN HU *Corydalis ledebouriana*, YI YANG HE BAO MU DAN *Dicentra peregrina*. Ref: 660, 1521.

**12604 Ledol**

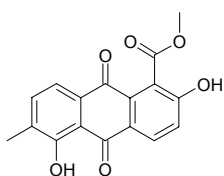
[577-27-5] C₁₅H₂₆O (222.37). Crystals (petroleum ether), mp 105°C, bp 282~283°C, [α]_D = +8° (EtOH). Source: HONG CHAI HU *Bupleurum scorzonerifolium*, XIE CAO *Valeriana officinalis*, YIN DU MA DOU LING *Aristolochia indica*. Ref: 2, 1521.

**12605 Lehmannine**

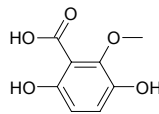
C₁₅H₂₂N₂O (246.36). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 660.

**12606 Leiocarpaquinone**

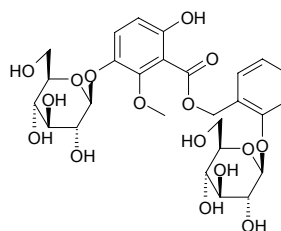
C₁₇H₁₂O₆ (312.28). Orange yellow lamellar crystals, mp 175~178°C. Source: YI HE GUO *Ventilago leiocarpa*. Ref: 97.

**12607 Leiocarpic acid**

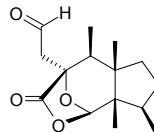
C₈H₈O₅ (184.15). Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 3937.

**12608 Leiocarposide**

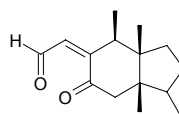
C₂₇H₃₄O₁₆ (614.56). Pharm: Analgesic; anti-inflammatory. Source: MAO GUO YI ZHI HUANG HUA *Solidago virgaurea*. Ref: 658.

**12609 Lejeuneapinguisanolid**

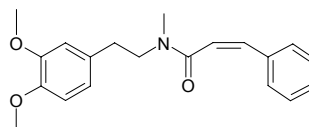
C₁₅H₂₂O₄ (266.34). mp 180~197°C, [α]_D²⁵ = +23° (c = 0.1, CHCl₃). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.

**12610 Lejeuneapinguisenone**

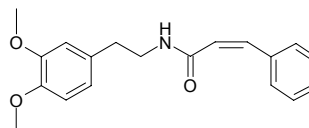
C₁₅H₂₂O₂ (234.34). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.

**12611 Lemairamide**

C₂₀H₂₅NO₃ (325.41). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

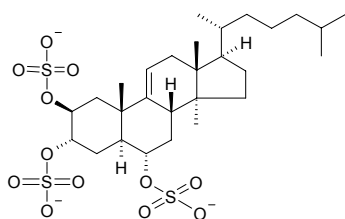
**12612 Lemairamin**

C₁₉H₂₁NO₃ (311.38). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

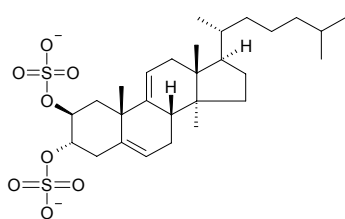


12613 Lembehsterol A

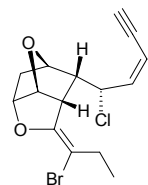
$C_{28}H_{45}O_{12}S_3^{3-}$ (669.86). $[\alpha]_D = +50.1^\circ$ ($c = 0.41$, MeOH). **Pharm:** Thymidine phosphorylase (TP) inhibitor ($IC_{50} = 41\mu\text{mol/L}$). **Source:** *Petrosia strongylata*. **Ref:** 4202.

**12614 Lembehsterol B**

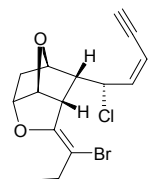
$C_{28}H_{44}O_8S_2^{2-}$ (572.79). $[\alpha]_D = +39.0^\circ$ ($c = 0.32$, MeOH). **Pharm:** Thymidine phosphorylase (TP) inhibitor ($IC_{50} = 45\mu\text{mol/L}$). **Source:** *Petrosia strongylata*. **Ref:** 4202.

**12615 Lembyne A**

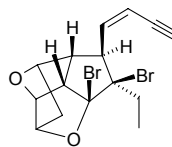
$C_{15}H_{16}BrClO_2$ (343.65). mp 95–96°C, $[\alpha]_D^{24} = +197.6^\circ$ ($c = 0.70$, $CHCl_3$). **Pharm:** Antibacterial (*Chromobacterium violaceum*, *Clostridium cellobioparum*, *Flavobacterium helmiphilum*, *Proteus mirabilis*, *Vibrio parahaemolyticus*, MIC = 40–60µg/disc; *Clostridium fallax*, *Clostridium novyi*, *Clostridium sordellii*, *Enterobacter aerogenes*, *Escherichia coli*, *Shigella flexneri*, *Vibrio cholerae*, *Vibrio vulnificus*, no inhibition). **Source:** *Laurencia* sp. **Ref:** 5183.

**12616 (12E)-Lembyne A**

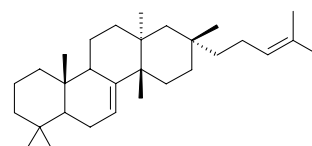
$C_{15}H_{16}BrClO_2$ (343.65). Oil, $[\alpha]_D^{24} = +42^\circ$ ($c = 0.02$, $CHCl_3$). **Pharm:** Antibacterial (marine bacteria: *Alcaligenes aquamarinus*, MIC = 20µg/disc; *Azomonas agilis*, MIC = 30µg/disc; *Erwinia amylovora*, MIC = 30µg/disc; *Escherichia coli*, MIC = 30µg/disc; *Alteromonas* sp., *Azobacter beijerinckii*, *Halobacterium* sp., *Halococcus* sp., no inhibition). **Source:** *Laurencia mariannensis*. **Ref:** 5191.

**12617 Lembyne B**

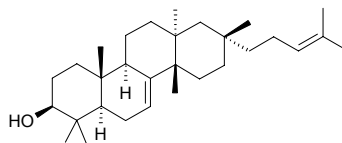
$C_{15}H_{16}Br_2O_2$ (388.10). Oil, $[\alpha]_D^{24} = +157.1^\circ$ ($c = 0.10$, $CHCl_3$). **Source:** *Laurencia* sp. **Ref:** 5183.

**12618 Lemmaphylla-7,21-diene**

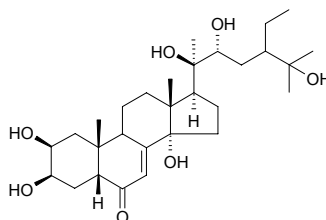
$C_{30}H_{50}$ (410.73). **Source:** DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*. **Ref:** 660.

**12619 Lemmaphylla-7,21-dien-3β-ol**

$C_{30}H_{50}O$ (426.73). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 2.2% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β-Carotene, relative percentage = 8.6%). **Source:** HUO YANG LE *Euphorbia antiquorum* (latex). **Ref:** 4606.

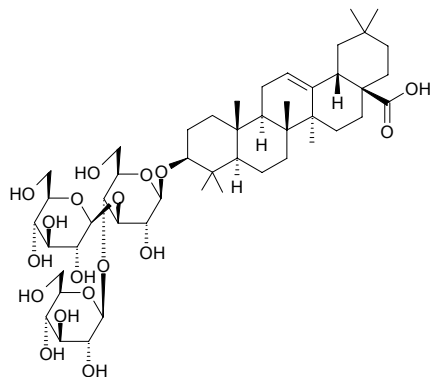
**12620 Lemmasterone**

Makisterone C [19974-41-5] $C_{29}H_{48}O_7$ (508.70). mp 263–265°C (dec). **Source:** LUO YAN CAO *Lemmaphyllum microphyllum*, LUO HAN SONG YE *Podocarpus macrophyllus*. **Ref:** 6.

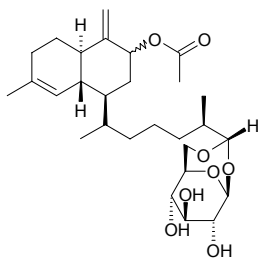


12621 Lemmatoxin

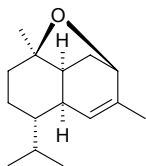
$C_{48}H_{78}O_{18}$ (943.15). **Pharm:** Spermicidal (50mg/L); molluscicide (*Biomphalaria glabrata* snail, 1.5mg/L, 90% killed). **Source:** SHI ER RUI SHANG LU *Phytolacca dodecandra*. **Ref:** 658.

**12622 Lemnabourside D**

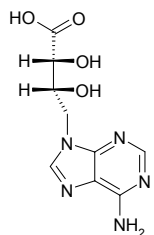
$C_{28}H_{44}O_8$ (508.66). Yellowish solid. **Pharm:** Cytotoxic (HepA IC_{50} = 39.3 μ g/mL, S₁₈₀A IC_{50} = 39.3 μ g/mL, EAC IC_{50} = 30.4 μ g/mL). **Source:** BO LUN LIN HUA RUAN SHAN HU *Lemna lia bournei*. **Ref:** 2505.

**12623 Lentideusether**

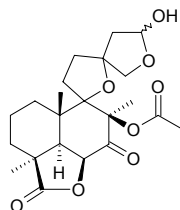
$C_{15}H_{24}O$ (220.36). **Source:** BAO PI GU *Lentinus lepidus*. **Ref:** 660.

**12624 Lentysine**

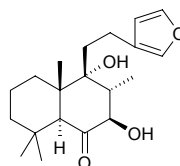
[23918-98-1] $C_9H_{11}N_5O_4$ (253.22). mp 261~263°C (dec). **Pharm:** Antihepatotoxin (liver toxicosis due to $CeCl_3$); antihypercholesterolemic (rat, reduces the level of cholesterol in serum). **Source:** XIANG XUN *Lentinus edodes*. **Ref:** 6, 658.

**12625 Leocardin**

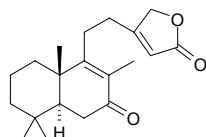
$C_{22}H_{30}O_8$ (422.48). Crystals. **Source:** WEI YI MU CAO *Leonurus cardiaca*. **Ref:** 2499.

**12626 Leoheterin**

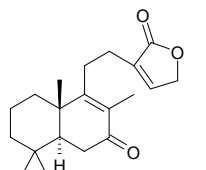
$C_{20}H_{30}O_4$ (334.46). White powder. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. **Ref:** 2499, 4493.

**12627 Leoheteronin A**

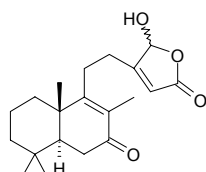
$C_{20}H_{28}O_3$ (316.44). White amorphous powder, $[\alpha]_D^{25} = +8.4^\circ$ ($c = 1.19$, $CHCl_3$). **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4493.

**12628 Leoheteronin B**

$C_{20}H_{28}O_3$ (316.44). White amorphous powder, $[\alpha]_D^{25} = -10.7^\circ$ ($c = 1.77$, $CHCl_3$). **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4493.

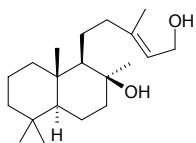
**12629 Leoheteronin C**

$C_{20}H_{28}O_4$ (332.44). White amorphous powder, $[\alpha]_D^{25} = +57.8^\circ$ ($c = 1.35$, $CHCl_3$). **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). **Ref:** 4493.

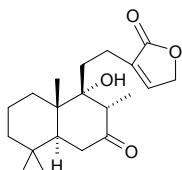


12630 Leoheteronin D

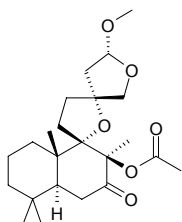
$C_{20}H_{36}O_2$ (308.51). Colorless needles, mp 134–135°C, $[\alpha]_D^{25} = 0.0^\circ$ ($c = 0.20$, $CHCl_3$). Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4493.

**12631 Leoheteronin E**

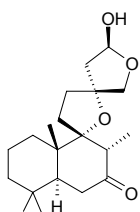
$C_{20}H_{30}O_4$ (334.46). White amorphous powder, $[\alpha]_D^{25} = -9.3^\circ$ ($c = 2.91$, $CHCl_3$). Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4493.

**12632 Leoheteronone A**

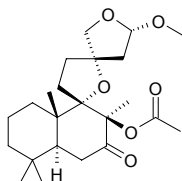
$C_{23}H_{36}O_6$ (408.54). Yellowish oil, $[\alpha]_D^{25} = -42.5^\circ$ ($c = 3.51$, $CHCl_3$). Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4534.

**12633 Leoheteronone B**

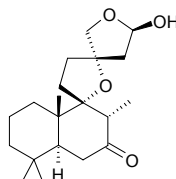
$C_{20}H_{32}O_4$ (336.48). White amorphous powder. Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4534.

**12634 Leoheteronone C**

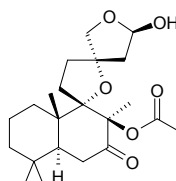
$C_{23}H_{36}O_6$ (408.54). White amorphous powder, $[\alpha]_D^{25} = +24.1^\circ$ ($c = 0.83$, $CHCl_3$). Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4534.

**12635 Leoheteronone D**

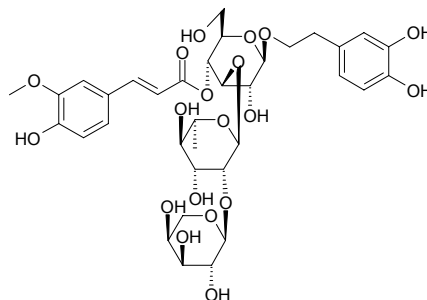
$C_{20}H_{32}O_4$ (336.48). White amorphous powder. Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4534.

**12636 Leoheteronone E**

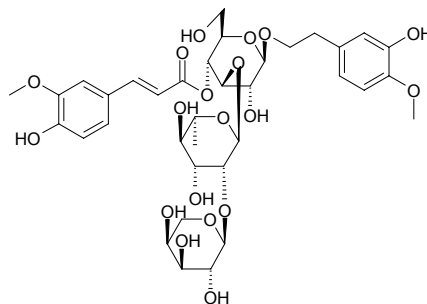
$C_{22}H_{34}O_6$ (394.51). White amorphous powder. Source: YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 4534.

**12637 Leonoside A**

$C_{35}H_{46}O_{19}$ (770.75). Amorphous powder. Source: HUI BAI YI MU CAO *Leonurus glaucescens*. Ref: 2499.

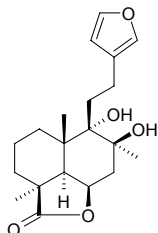
**12638 Leonoside B**

$C_{36}H_{48}O_{19}$ (784.77). Amorphous powder. Source: HUI BAI YI MU CAO *Leonurus glaucescens*. Ref: 2499.

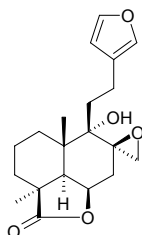


12639 Leonotin

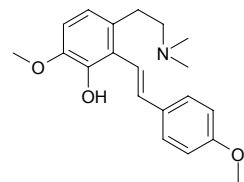
$C_{20}H_{28}O_5$ (348.44). **Pharm:** Cytotoxic (leukemia cells L₁₂₁₀ in tissue culture, IC₅₀ = 50–60 μg/mL). **Source:** XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). **Ref:** 4328.

**12640 Leonotinin**

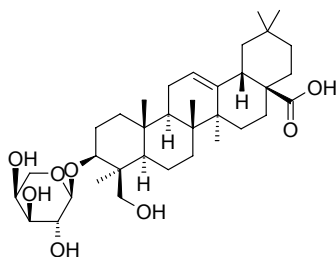
$C_{20}H_{26}O_5$ (346.43). **Pharm:** Cytotoxic (leukemia cells L₁₂₁₀ in tissue culture, IC₅₀ = 50–60 μg/mL). **Source:** XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). **Ref:** 4328.

**12641 Leonticine**

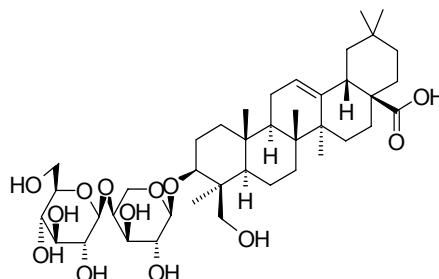
$C_{20}H_{25}NO_3$ (327.43). **Source:** BANG ZHUANG ZI JIN *Corydalis claviculata*, HUA BAN SHI ZU CAO *Leontice leontopetalum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], *Alphonsea sclerocarpa*. **Ref:** 660, 1521.

**12642 Leontoside A**

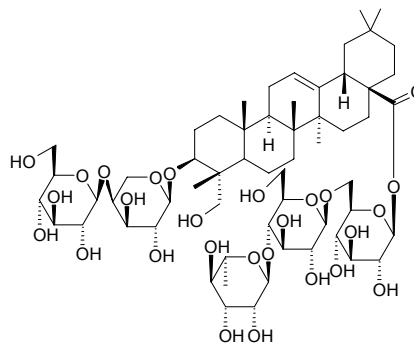
Scabioside A $C_{35}H_{56}O_8$ (604.83). mp 216–219°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, XING AN BAI TOU WENG *Pulsatilla dahurica*, ZHONG E BAI TOU WENG *Pulsatilla campanella*, *Akebia* spp., *Fatsia* spp., *Caulophyllum* spp., *Patrinia* spp., *Phytolacca* spp., *Schefflera* spp., *Hedera* spp., *Leontice* spp., *Koelreuteria* spp. **Ref:** 2, 6, 660, 1521.

**12643 Leontoside B**

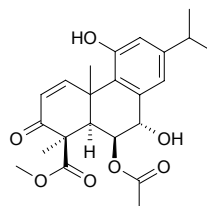
Scabioside C $C_{41}H_{66}O_{13}$ (766.98). mp 216–219°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, ZHONG E BAI TOU WENG *Pulsatilla campanella*. **Ref:** 2, 660, 1521.

**12644 Leontoside D**

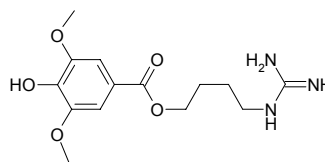
$C_{59}H_{96}O_{27}$ (1237.41). **Source:** XING AN BAI TOU WENG *Pulsatilla dahurica*. **Ref:** 660, 1521.

**12645 Leonubiastrin**

$C_{23}H_{28}O_7$ (416.48). Crystals. **Source:** XI YE YI MU CAO *Leonurus sibiricus*. **Ref:** 2499.

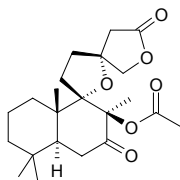
**12646 Leonurine**

[24697-74-3] $C_{14}H_{21}N_3O_5$ (311.34). mp 238°C (dec). **Pharm:** Uterine stimulant (rat, *in vitro*, 0.4g/mL); Antihypertensive. **Source:** XI YE YI MU CAO *Leonurus sibiricus* (the compound was isolated from the plant by Natsuki Kato et al. in 1962)^[5505], YI MU CAO *Leonurus heterophyllum* [Syn. *Leonurus artemisia*] (dried aerial parts: content = 0.218%^[5508]). **Ref:** 4, 658, 5505, 5508.

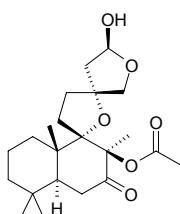


12647 Leopersin A

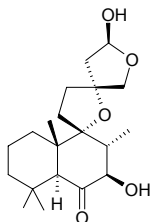
$C_{22}H_{32}O_6$ (392.50). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12648 Leopersin B**

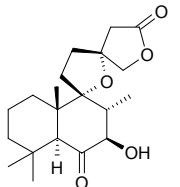
$C_{22}H_{34}O_6$ (394.51). White powder. Source: BO SI YI MU CAO *Leonurus persicus*, YI MU CAO *Leonurus heterophyllum* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 2499, 4534.

**12649 Leopersin C**

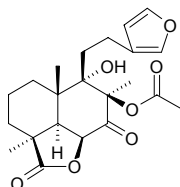
$C_{20}H_{32}O_5$ (352.48). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*, YI MU CAO *Leonurus heterophyllum* [Syn. *Leonurus artemisia*] (aerial parts). Ref: 2499, 4534.

**12650 Leopersin D**

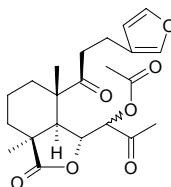
$C_{20}H_{30}O_5$ (350.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12651 Leopersin E**

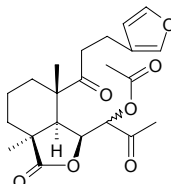
$C_{22}H_{38}O_7$ (404.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12652 7-epi-Leopersin F**

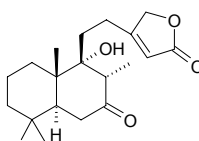
$C_{22}H_{38}O_7$ (404.46). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12653 Leopersin F**

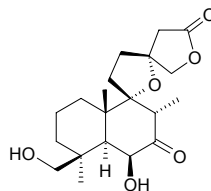
$C_{22}H_{38}O_7$ (404.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12654 Leopersin G**

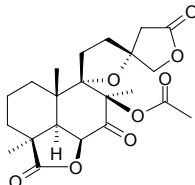
$C_{20}H_{30}O_4$ (334.46). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 1521, 2499.

**12655 Leopersin H**

$C_{20}H_{30}O_6$ (366.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

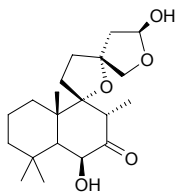
**12656 Leopersin I**

$C_{20}H_{28}O_8$ (420.46). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

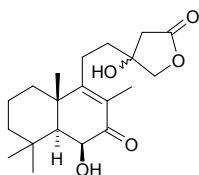


12657 Leopersin J

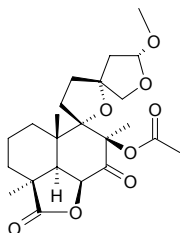
$C_{20}H_{32}O_5$ (352.48). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*.
Ref: 2499.

**12658 Leopersin L**

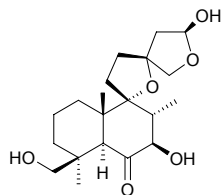
$C_{20}H_{30}O_5$ (350.46). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*.
Ref: 2499.

**12659 Leopersin N**

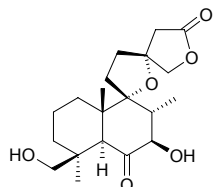
$C_{23}H_{32}O_8$ (436.51). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*.
Ref: 2499.

**12660 Leopersin O**

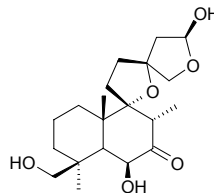
$C_{20}H_{32}O_6$ (368.47). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*.
Ref: 2499.

**12661 Leopersin P**

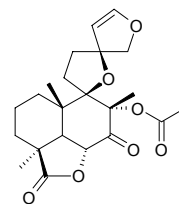
$C_{20}H_{30}O_6$ (366.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12662 Leopersin Q**

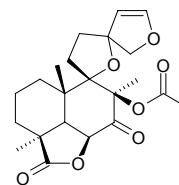
$C_{20}H_{32}O_6$ (368.47). Oil liquid. Source: BO SI YI MU CAO *Leonurus persicus*.
Ref: 2499.

**12663 (+)-Leosibiricin**

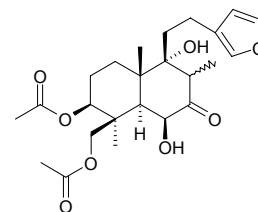
$C_{22}H_{28}O_7$ (404.46). Source: XI YE YI MU CAO *Leonurus sibiricus*. Ref: 660.

**12664 Leosibiricin**

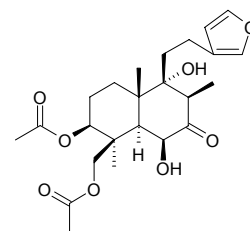
[86575-85-1] $C_{22}H_{28}O_7$ (404.46). Oil liquid, $[\alpha]_D^{19} = +33^\circ$ ($c = 0.09$, $CHCl_3$).
Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**12665 Leosibirin**

$C_{24}H_{32}O_8$ (450.53). Source: XI YE YI MU CAO *Leonurus sibiricus*. Ref: 660.

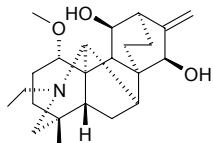
**12666 Leosibirin**

[86575-87-3] $C_{24}H_{34}O_8$ (450.53). Oil liquid, $[\alpha]_D^{20} = 0.7^\circ$ ($c = 0.3$, $CHCl_3$).
Source: XI YE YI MU CAO *Leonurus sibiricus*. Ref: 2499.



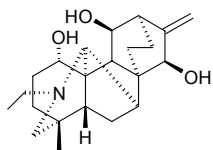
12667 Lepadine

$C_{22}H_{35}NO_3$ (373.54). Source: LEI BO WU TOU *Aconitum pseudohuiliense*. Ref: 660.

**12668 Lepenine**

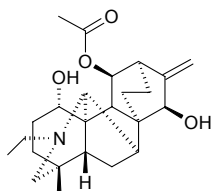
$C_{22}H_{33}NO_3$ (359.51). Colorless needles, mp 203–204°C (acetone). Source:

BAI HOU WU TOU *Aconitum leucostomum*, BEI WU TOU *Aconitum kusnezoffii*, JI LIN WU TOU *Aconitum kirinense*, LEI BO WU TOU *Aconitum pseudohuiliense*. Ref: 660, 1521, 2515.

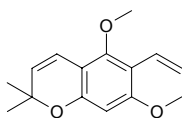
**12669 Lepetine**

$C_{24}H_{35}NO_4$ (401.55). Colorless needles, mp 134–136°C (acetone). Source: JI

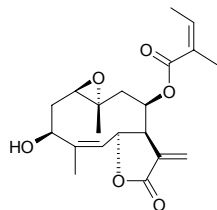
LIN WU TOU *Aconitum kirinense*, LEI BO WU TOU *Aconitum pseudohuiliense*. Ref: 660, 2515.

**12670 Leptene B**

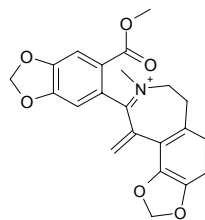
$C_{15}H_{18}O_3$ (246.31). Yellowish oleaginous substances. Source: SAN CHA KU *Evodia lepta* [Syn. *Ilex lepta*]. Ref: 393.

**12671 Leptocarpin**

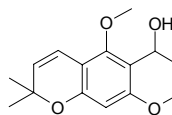
$C_{20}H_{26}O_6$ (362.43). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts), *Viguiera puruana* (aerial parts). Ref: 5090.

**12672 Leptocarpinine**

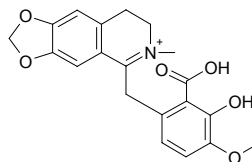
$C_{22}H_{20}NO_6^+$ (394.41). Amorphous powder, mp > 350°C (MeOH). Source: XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. Ref: 1899.

**12673 Leptol B**

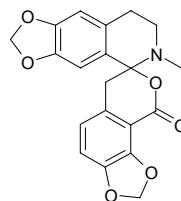
$C_{15}H_{20}O_4$ (264.32). Colorless oleaginous substances, $[\alpha]_D^{26} = -0.6$ ($c = 1.12$, Me₂CO). Source: SAN CHA KU *Evodia lepta* [Syn. *Ilex lepta*]. Ref: 393.

**12674 Leptopidine**

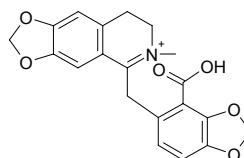
$C_{20}H_{20}NO_6^+$ (370.39). Yellow powder, mp. 235–239°C (MeOH). Source: XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. Ref: 1899.

**12675 Leptopidinine**

$C_{20}H_{17}NO_6$ (367.36). Yellow needles (MeOH–CHCl₃), mp. 345–350°C (CHCl₃), $[\alpha]_D^{20} = 0^\circ$ ($c = 1.5$, MeOH). Source: XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. Ref: 1899.

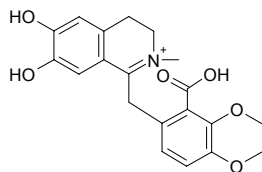
**12676 Leptopine**

$C_{20}H_{18}NO_6^+$ (368.37). Yellow cubic crystals, mp. 158–161°C (MeOH). Source: XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. Ref: 1899.

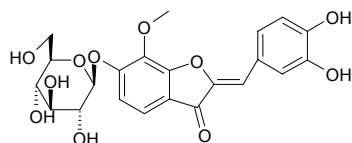


12677 Leptopinine

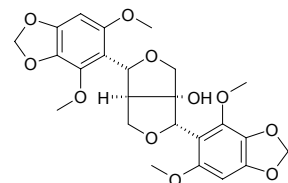
$C_{20}H_{22}NO_6^+$ (372.40). Yellow powder. mp. 207~210°C (MeOH). Source: XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*. Ref: 1899.

**12678 Leptosin**

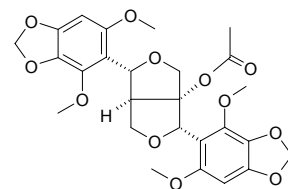
[486-23-7] $C_{22}H_{22}O_{11}$ (462.41). Orange needles, mp 229~231°C (dec). Source: XIAN YE JIN JI JU *Coreopsis lanceolata*. Ref: 6.

**12679 Leptostachyol**

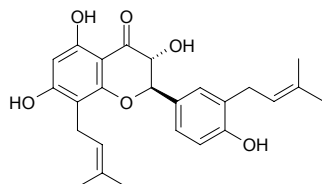
$C_{24}H_{26}O_{11}$ (490.47). Source: TOU GU CAO *Speranskia tuberculata*. Ref: 660.

**12680 Leptostachyol acetate**

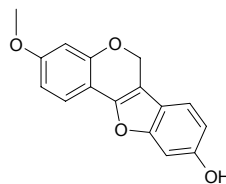
$C_{26}H_{28}O_{12}$ (532.51). Source: LAO PO ZI ZHEN XIAN *Phryma leptostachya*. Ref: 6.

**12681 (2R,3R)-Lespedezaflavanone C**

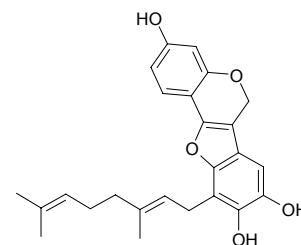
Anticancer Flavonoid PMV70P691-99 $C_{25}H_{28}O_6$ (424.50). Pharm: Aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$)^[3090]; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]. Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090, 5038.

**12682 Lespedezol A₁**

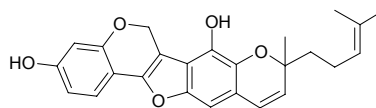
$C_{16}H_{12}O_4$ (268.27). Amorphous powder. Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2 \mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07 \mu\text{mol/L}$). Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2356.

**12683 Lespedezol A₂**

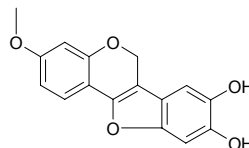
$C_{25}H_{26}O_5$ (406.48). Amorphous powder. Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2 \mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07 \mu\text{mol/L}$); Antiallergic (50mg/kg, InRt = 39.9%, control EGCg, InRt = 12.8%). Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2356.

**12684 Lespedezol A₃**

$C_{25}H_{24}O_5$ (404.47). Amorphous powder. Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.3 \mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07 \mu\text{mol/L}$). Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2356.

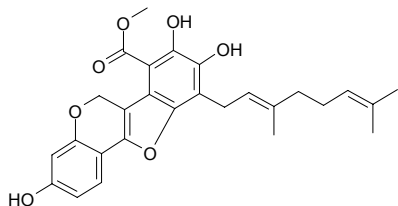
**12685 Lespedezol A₄**

$C_{16}H_{12}O_5$ (284.27). Amorphous powder. Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2 \mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07 \mu\text{mol/L}$). Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2357.

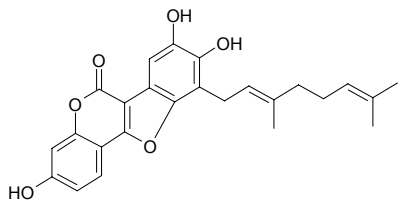


12686 Lespedezol A₅

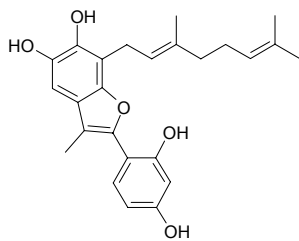
$C_{27}H_{28}O_7$ (464.52). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.4\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12687 Lespedezol A₆**

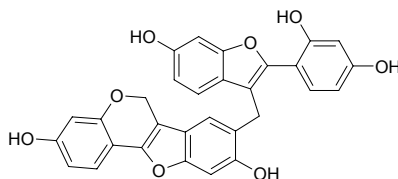
$C_{25}H_{24}O_6$ (420.47). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.4\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12688 Lespedezol B₁**

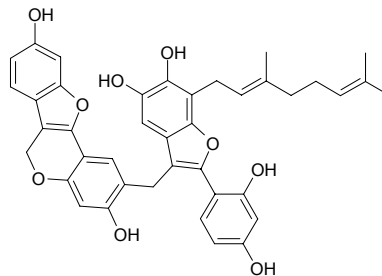
$C_{25}H_{28}O_5$ (408.50). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.3\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.

**12689 Lespedezol B₂**

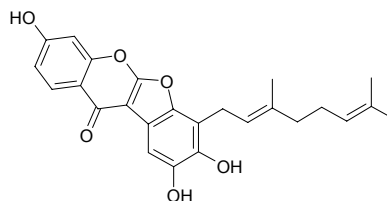
$C_{30}H_{20}O_8$ (508.49). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.2\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.

**12690 Lespedezol B₃**

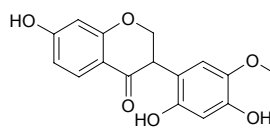
$C_{40}H_{36}O_9$ (660.73). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.3\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.

**12691 Lespedezol C₁**

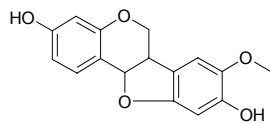
$C_{25}H_{24}O_6$ (420.47). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, $IC_{50} = 0.3\mu\text{mol/L}$, control EGCg, $IC_{50} = 0.07\mu\text{mol/L}$). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2356.

**12692 Lespedezol D**

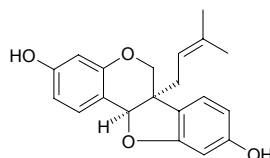
$C_{16}H_{14}O_6$ (302.29). Amorphous powder, $[\alpha]_D = 0^\circ$ ($c = 0.71$, MeOH). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12693 Lespedezol D₁**

$C_{16}H_{14}O_5$ (286.29). Amorphous powder, $[\alpha]_D = -97.1^\circ$ ($c = 0.46$, MeOH). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

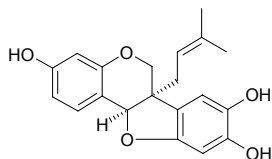
**12694 Lespedezol D₂**

$C_{20}H_{20}O_4$ (324.38). Amorphous powder, $[\alpha]_D = -136.9^\circ$ ($c = 0.16$, MeOH). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

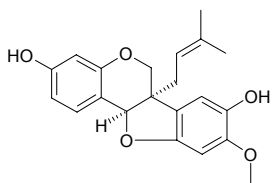


12695 Lespedezol D₃

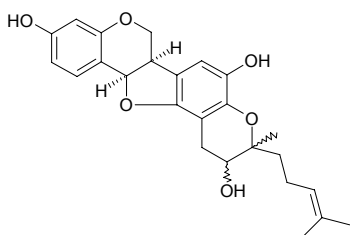
C₂₀H₂₀O₅ (340.38). Amorphous powder, $[\alpha]_D = -113.2^\circ$ ($c = 0.70$, MeOH).
Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.5 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12696 Lespedezol D₄**

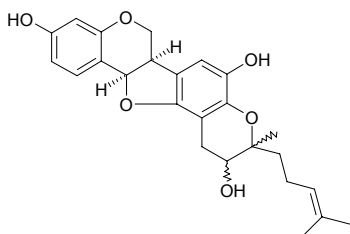
C₂₁H₂₂O₅ (354.41). Amorphous powder, $[\alpha]_D = -156.9^\circ$ ($c = 0.88$, MeOH).
Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.1 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12697 Lespedezol D₅**

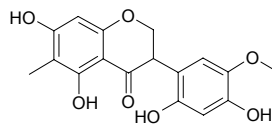
C₂₅H₂₈O₆ (424.50). Amorphous powder, $[\alpha]_D = -49.9^\circ$ ($c = 1.03$, MeOH).
Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.2 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12698 Lespedezol D₆**

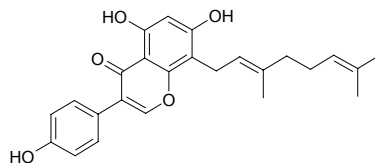
C₂₅H₂₈O₆ (424.50). Amorphous powder, $[\alpha]_D = -120.90^\circ$ ($c = 1.23$, MeOH).
Pharm: Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.1 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12699 Lespedezol E**

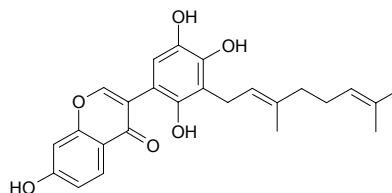
C₁₇H₁₆O₇ (332.31). Amorphous powder, $[\alpha]_D = 0^\circ$ ($c = 1.21$, MeOH). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12700 Lespedezol E₁**

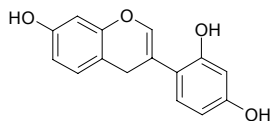
C₂₅H₂₆O₅ (406.48). Amorphous powder. **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12701 Lespedezol E₂**

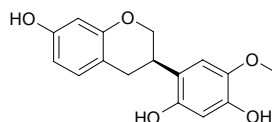
C₂₅H₂₆O₆ (422.48). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.4 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

**12702 Lespedezol F₁**

C₁₅H₁₂O₄ (256.26). Amorphous powder. **Pharm:** Antioxidant (rat brain homogenate lipid peroxidation test, IC₅₀ = 0.4 μmol/L, control EGCg, IC₅₀ = 0.07 μmol/L). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

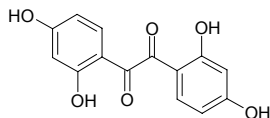
**12703 Lespedezol G₁**

C₁₆H₁₆O₅ (288.30). Amorphous powder, $[\alpha]_D = -16.7^\circ$ ($c = 0.98$, MeOH). **Source:** TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. **Ref:** 2357.

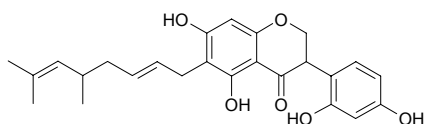


12704 Lespedezol H₁

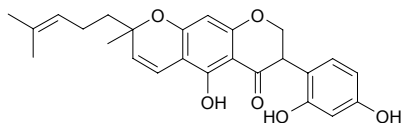
C₁₄H₁₀O₆ (274.23). Amorphous powder. Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba*. Ref: 2357.

**12705 Lespedol A**

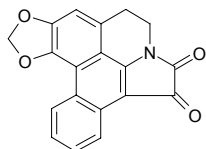
C₂₅H₂₈O₆ (424.50). mp 146.5~150°C. Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba* (the compound was isolated from the plant by Akira Ueno et al. in 1973). Ref: 5505.

**12706 Lespedol B**

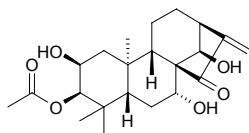
C₂₅H₂₈O₆ (422.48). mp 165~166°C. Source: TONG XING LIE PIAN HU ZHI ZI *Lespedeza homoloba* (the compound was isolated from the plant by Akira Ueno et al. in 1973). Ref: 5505.

**12707 Lettowianthine**

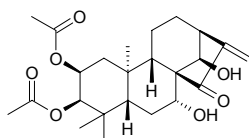
C₁₉H₁₁NO₄ (317.30). Dark red solid, mp 314~317°C (dec, CHCl₃). Source: *Lettowianthus stellatus* (root cortex). Ref: 3944.

**12708 Leucamenin A**

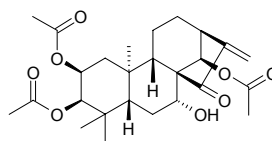
C₂₂H₃₂O₆ (392.50). mp 228~230°C, [α]_D²¹ = -63.8° (c = 1.04, MeOH). Source: KA MEI XIANG CHA CAI *Isodon kameba*. Ref: 4067.

**12709 Leucamenin B**

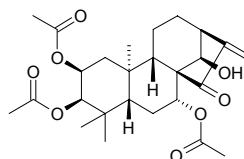
C₂₄H₃₄O₇ (434.53). mp 240~241°C, [α]_D²¹ = -32.5° (c = 1.17, CHCl₃). Source: KA MEI XIANG CHA CAI *Isodon kameba*. Ref: 4067.

**12710 Leucamenin C**

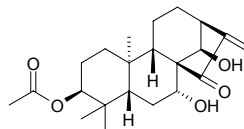
C₂₆H₃₆O₈ (476.57). Amorphous powder, [α]_D²¹ = -21.2° (c = 0.90, CHCl₃). Source: KA MEI XIANG CHA CAI *Isodon kameba*. Ref: 4067.

**12711 Leucamenin D**

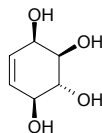
C₂₆H₃₆O₈ (476.57). mp 182~184°C, [α]_D²¹ = -27.3° (c = 1.32, CHCl₃). Source: KA MEI XIANG CHA CAI *Isodon kameba*. Ref: 4067.

**12712 Leucamenin E**

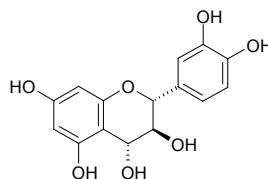
C₂₂H₃₂O₅ (376.50). mp 148~149°C, [α]_D²¹ = -55.8° (c = 0.39, MeOH). Source: KA MEI XIANG CHA CAI *Isodon kameba*, YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 4067.

**12713 Leucanthemitol**

C₆H₁₀O₄ (146.14). Source: BAI SHOU WU *Cynanchum bungei*. Ref: 660.

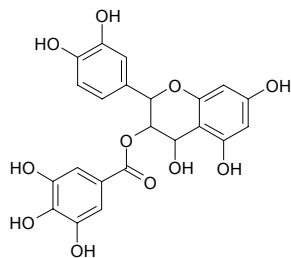
**12714 Leucocyanidin**

[480-17-1] C₁₅H₁₄O₇ (306.27). Monohydrate crystals (ethyl acetate-petroleum ether), mp 355°C; mp (+) > 355°C. Pharm: Platelet aggregation inhibitor; aldose reductase inhibitor (eye lens); similar action with vitamin P. Source: A LA BO JIN HE HUAN *Acacia arabica*, BAI FAN DOU *Phaseolus vulgaris*, CHANG YE AN LUO *Polyalthia longifolia*, FAN SHI LIU GAN *Psidium guajava*, FAN SHI LIU PI *Psidium guajava*, FAN SHI LIU YE *Psidium guajava*, HOU PI SHU *Lannea grandis* [Syn. *Lannea coromandelica*], JI YE SUAN MO *Rumex hastatus*, LUO HUA SHENG *Arachis hypogaea*, MO E SUAN MO *Rumex hymenosepalus*, OU *Nelumbo nucifera*, PI JIU HUA *Humulus lupulus*, SHAN ZHA YE *Crataegus pinnatifida*. Ref: 661.

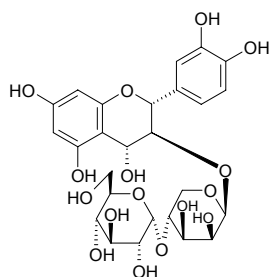


12715 (+)-Leucocyanidin gallate

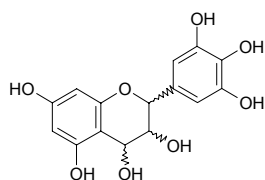
$C_{22}H_{18}O_{11}$ (458.38). Source: A LA BO JIAO JIN HE HUAN *Acacia nilotica*.
Ref: 5375.

**12716 Leucocyanidin-3-O- α -D-glucopyranosyl-(1 \rightarrow 4)-O- β -D-arabinopyranoside**

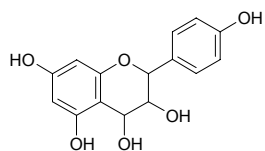
$C_{26}H_{32}O_{16}$ (600.54). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

**12717 Leucodelphinidin**

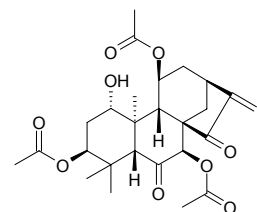
[491-52-1] $C_{15}H_{14}O_8$ (322.27). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**12718 Leucopelargonidin**

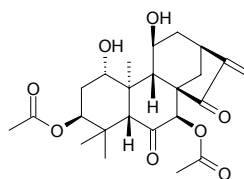
[520-17-2] $C_{15}H_{14}O_6$ (290.28). Source: BAI FAN DOU *Phaseolus vulgaris*. Ref: 6.

**12719 Leucophyllin A**

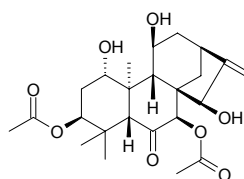
$C_{26}H_{34}O_9$ (490.56). mp 287~289°C, $[\alpha]_D^{12} = -47.5^\circ$ ($c = 0.58$, $CHCl_3$). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**12720 Leucophyllin B**

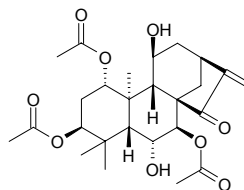
$C_{24}H_{32}O_8$ (448.52). mp 241~243°C, $[\alpha]_D^{12} = -36.3^\circ$ ($c = 0.40$, Me_2CO). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**12721 Leucophyllin C**

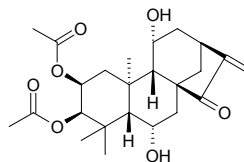
$C_{24}H_{34}O_8$ (450.53). mp 244~246°C, $[\alpha]_D^{12} = +27.4^\circ$ ($c = 0.19$, Me_2CO). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**12722 Leucophyllin D**

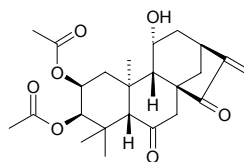
$C_{26}H_{36}O_9$ (492.57). mp 231~233°C, $[\alpha]_D^{12} = +2.3^\circ$ ($c = 0.51$, Me_2CO). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

**12723 Leucophyllin E**

$C_{24}H_{34}O_7$ (434.53). mp 218~220°C, $[\alpha]_D^{12} = -53.6^\circ$ ($c = 0.60$, Me_2CO). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

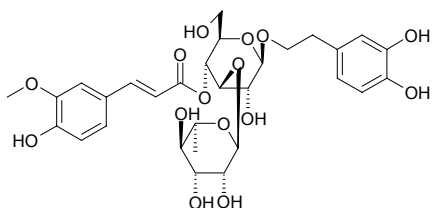
**12724 Leucophyllin F**

$C_{24}H_{32}O_7$ (432.52). mp 236~238°C, $[\alpha]_D^{12} = -55.2^\circ$ ($c = 0.58$, $CHCl_3$). Source:
 BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 4067.

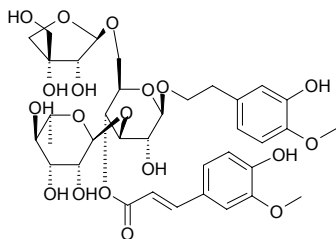


12725 Leucosceptoside A

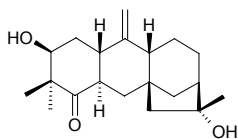
$C_{30}H_{38}O_{15}$ (638.63). Yellow powder. Source: BO SI YI MU CAO *Leonurus persicus*, CHANG YE CHE QIAN *Plantago lanceolata*, *Sideritis ozturkii* (aerial parts), CHE QIAN *Plantago asiatica*, DA YE ZUI YU CAO *Buddleja davidii*, SONG HAO *Phtheirospermum japonicum* [Syn. *Gerardia japonica*]. Ref: 660, 2499, 5020 3827.

**12726 Leucosceptoside B**

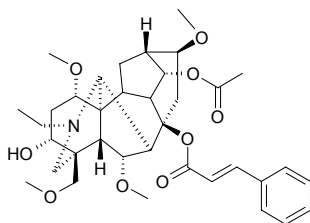
$C_{36}H_{48}O_{19}$ (784.77). Colorless amorphous powder, $[\alpha]_D^{20} = -82^\circ$ ($c = 0.1$, MeOH). Source: ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. Ref: 5449.

**12727 Leucothol A**

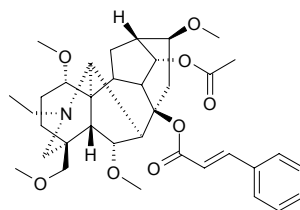
$C_{20}H_{30}O_3$ (318.46). White solid. Source: JIN YE ZI *Craibiodendron yunnanese* (leaf). Ref: 4575.

**12728 Leueantine A**

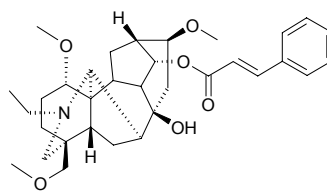
$C_{36}H_{49}NO_9$ (639.79). Amorphous powder, $[\alpha]_D^{20} +13.4^\circ$ ($c = 0.5$, $CHCl_3$). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0036%dw). Ref: 4678.

**12729 Leueantine B**

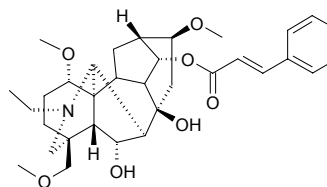
$C_{36}H_{49}NO_8$ (623.79). Amorphous powder, $[\alpha]_D^{20} = +19^\circ$ ($c = 0.5$, $CHCl_3$). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0027%dw). Ref: 4678.

**12730 Leueantine C**

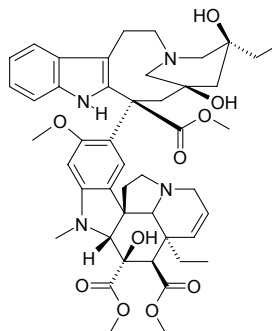
$C_{33}H_{45}NO_6$ (551.73). Amorphous powder, $[\alpha]_D^{20} = +34.6^\circ$ ($c = 0.5$, $CHCl_3$). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.00040%dw). Ref: 4678.

**12731 Leueantine D**

$C_{33}H_{45}NO_7$ (567.73). Amorphous powder, $[\alpha]_D^{20} = +34.0^\circ$ ($c = 0.5$, $CHCl_3$). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (root: yield = 0.0025%dw). Ref: 4678.

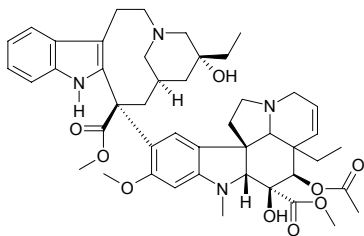
**12732 Leurocolumbine**

14'-Hydroxyvincalcoloblastine [56974-17-5] $C_{46}H_{58}N_4O_{10}$ (827.00). Pharm: Antineoplastic; antimetabolic agent. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2, 1521.

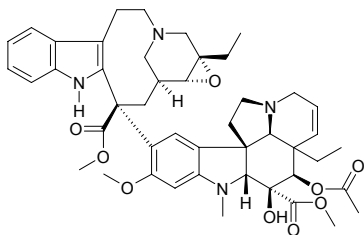


12733 Leurosidine

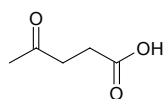
Inrosidine; Vinrosidine [15228-71-4] $C_{46}H_{58}N_4O_9$ (811.00). mp 208–211°C (dec). **Pharm:** Antineoplastic (mus, transplanted leukemia P1534, EAC); antiviral (poliomyelitis virus *in vitro*, vaccinia virus *in vitro*). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. **Ref:** 2, 5, 658, 1521.

**12734 Leurosine**

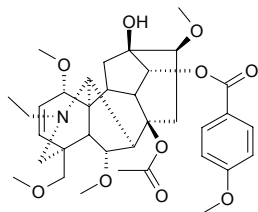
Vinleurosine [23360-92-1] $C_{46}H_{56}N_4O_9$ (808.98). Octa-hydrate: white crystals (nitrile-ethyl or methanol), mp 202–205°C (dec), $[\alpha]_D^{26} = +72$ (chloroform), Sulfate: mp 238–242°C, $[\alpha]_D^{26} = -8.3^\circ$ (methanol). **Pharm:** Antineoplastic (mus P₃₈₈, 45mg/kg, biotic prolonged rate = 39%, hm chorion cell carcinoma, lymphatic dyscrasia and EAC); hypoglycemic; LD₅₀ (rat, ip) = 15.2mg/kg, (mus, ip) = 80mg/kg, (mus, iv) = 10.5mg/kg. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*], CHANG YE CHANG CHUN HUA *Catharanthus longifolius*, JIAN ZHUANG CHANG CHUN HUA *Catharanthus lanceus*, LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*, XI XIAO CHANG CHUN HUA *Catharanthus pusillus*. **Ref:** 661, 1521.

**12735 Levulinic acid**

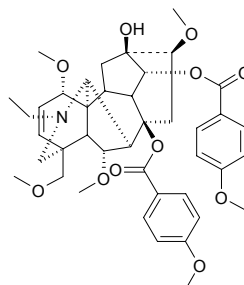
4-Oxopentanoic acid [123-76-2] $C_5H_8O_3$ (116.12). mp 33–35°C, bp 245–246°C. **Source:** HEI DA DOU PI *Glycine max*. **Ref:** 6.

**12736 Liaconitine A**

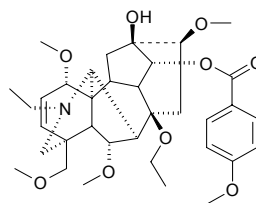
N-Ethyl-1 α ,6 α ,16 β ,18-tetramethoxy-13 β -ol-2,3-dehydroaconitane-8-acetate-1-4-anisoylate $C_{35}H_{47}NO_{10}$ (641.77). **Source:** *Aconitum* sp. **Ref:** 1900.

**12737 Liaconitine B**

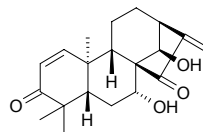
N-Ethyl-1 α ,6 α ,16 β ,18-tetramethoxy-13 β -ol-2,3-dehydroaconitane-8,14-dianisoylate $C_{41}H_{51}NO_{11}$ (733.86). **Source:** *Aconitum* sp. **Ref:** 1900.

**12738 Liaconitine C**

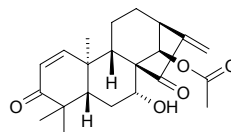
N-Ethyl-1 α ,6 α ,16 β ,18-tetramethoxy-8-ethoxy-13 β -ol-2,3-dehydroaconitane-1-4-anisoylate $C_{35}H_{49}NO_9$ (627.78). **Source:** *Aconitum* sp. **Ref:** 1900.

**12739 Liangshanin A**

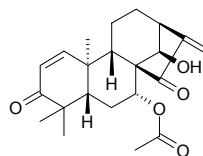
$C_{20}H_{26}O_4$ (330.43). mp 238–240°C, $[\alpha]_D = -192.5^\circ$ ($c = 0.517$, MeOH). **Source:** LIANG SHAN XIANG CHA CAI *Isodon liangshanica*. **Ref:** 4067.

**12740 Liangshanin B**

$C_{22}H_{28}O_5$ (372.47). mp 204–210°C. **Source:** LIANG SHAN XIANG CHA CAI *Isodon liangshanica*. **Ref:** 4067.

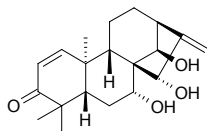
**12741 Liangshanin C**

$C_{22}H_{28}O_5$ (372.47). mp 204–210°C. **Source:** LIANG SHAN XIANG CHA CAI *Isodon liangshanica*. **Ref:** 4067.

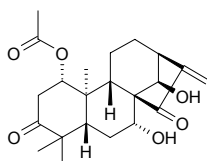


12742 Liangshanin D

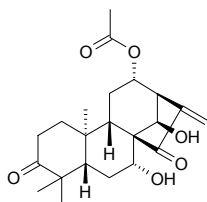
$C_{20}H_{28}O_4$ (332.44). mp 302~305°C. Source: LIANG SHAN XIANG CHA
CAI *Isodon liangshanica*. Ref: 4067.

**12743 Liangshanin E**

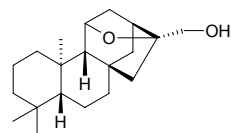
$C_{22}H_{30}O_6$ (390.48). mp 138~140°C. Source: LIANG SHAN XIANG CHA
CAI *Isodon liangshanica*. Ref: 4067.

**12744 Liangshanin F**

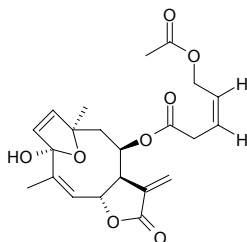
$C_{22}H_{30}O_6$ (390.48). mp 220~222°C. Source: LIANG SHAN XIANG CHA
CAI *Isodon liangshanica*. Ref: 4067.

**12745 Liangshanin G**

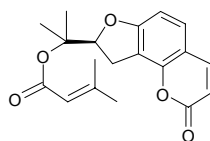
$C_{20}H_{32}O_2$ (304.48). mp 146~151°C. Source: LIANG SHAN XIANG CHA
CAI *Isodon liangshanica*. Ref: 4067.

**12746 Liatrin**

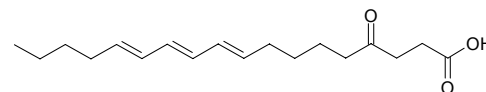
$C_{22}H_{26}O_8$ (418.45). Colorless acicular crystals (dichloromethane cyclohexane),
mp 130~132°C, $[\alpha]_D^{24} = -142^\circ$ ($c = 1.93$, chloroform). Pharm: Antineoplastic
(mus P_{388} , 5mg/kg, biotic prolonged rate = 57%); cytotoxic (KB). Source:
CHA SHI SHE BIAN JU *Liatris champmanii*. Ref: 661.

**12747 Libanorin**

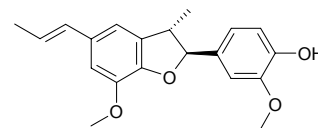
$C_{19}H_{20}O_5$ (328.37). Crystals (pet. ether), mp 79°C, $[\alpha]_D^{24} = +197^\circ$ ($c = 1.66$,
CHCl₃). Pharm: Antispasmodic; coronary vasodilator. Source: SHAN QIAN
HU *Peucedanum oreoselinum*. Ref: 658, 1521.

**12748 Licanic acid**

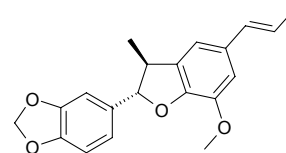
$C_{18}H_{28}O_3$ (292.42). Source: YI KOU KE MEI *Chrysobalanus icaco*. Ref: 658.

**12749 Licarin A**

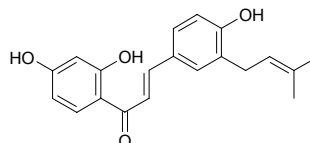
$C_{20}H_{22}O_4$ (326.40). Pharm: Antimicrobial; neuroprotective (glutamate-induced
neurotoxicity in primary cultures of cortical cells, 0.1 μmol/L, protection rate =
(45.3±3.6)%, $p < 0.01$, MK-801: 1.0 μmol/L, protection rate = (83.6±2.0)%,
 $p < 0.001$, CNQX: 1.0 μmol/L, protection rate = (70.5±1.5)%, $p < 0.001$)^[4927]. Source:
DA MA DOU LING *Aristolochia maxima*, HONG NAN PI *Machilus thunbergii*,
ROU DOU KOU *Myristica fragrans*. Ref: 658, 4927.

**12750 Licarin B**

$C_{20}H_{20}O_4$ (324.38). Source: ROU DOU KOU *Myristica fragrans*, YU LAN
Magnolia denudata [Syn. *Magnolia heptapata*]. Ref: 660, 4439.

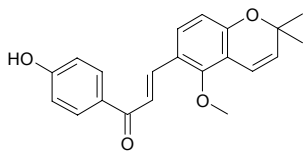
**12751 Licoagrochalcone A**

Licoagrochalcone; 2',4,4'-Trihydroxy-3-prenylchalcone $C_{20}H_{20}O_4$ (324.38).
Pharm: Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (12.7 \pm 3.2) \mu\text{g/mL}$,
control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} =$
(0.04±0.01) μg/mL; *Plasmodium falciparum* W2, $IC_{50} = (12.0 \pm 2.6) \mu\text{g/mL}$,
Chloroquine, $IC_{50} = (0.08 \pm 0.003) \mu\text{g/mL}$, Quinine, $IC_{50} =$
(0.21±0.01) μg/mL)^[3879]; antimalarial (antiplasmodial *in vitro*, *Plasmodium*
falciparum, W2 strain, $IC_{50} = (12.8 \pm 2.5) \mu\text{mol/L}$, control Quinine, $IC_{50} =$
(0.21±0.01) μmol/L; D6 strain, $IC_{50} = (19.5 \pm 1.2) \mu\text{mol/L}$, Quinine, $IC_{50} =$
(0.042±0.002) μmol/L)^[5420]. Source: A BI XI NI YA CI TONG *Erythrina*
abyssinica (stem cortex), GUANG GUO GAN CAO *Glycyrrhiza glabra*,
Glycyrrhiza sp. Ref: 1521, 2431, 3879, 5420.

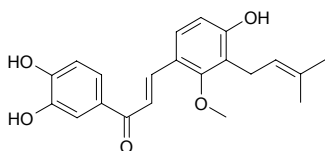


12752 Licoagrochalcone B

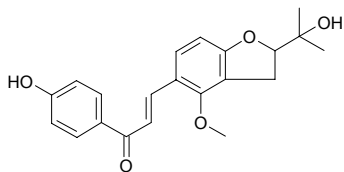
$C_{21}H_{20}O_4$ (336.39). Yellow powder. Source: GUANG GUO GAN CAO
Glycyrrhiza glabra. Ref: 761.

**12753 Licoagrochalcone C**

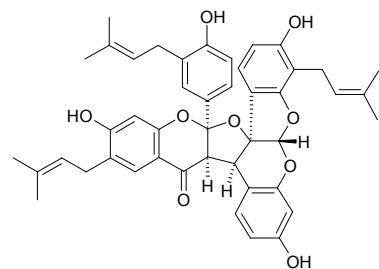
$C_{21}H_{22}O_5$ (354.41). Yellow powder. Source: GUANG GUO GAN CAO
Glycyrrhiza glabra. Ref: 761.

**12754 Licoagrochalcone D**

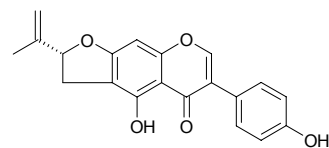
$C_{21}H_{22}O_5$ (354.41). Yellow powder, $[\alpha]_D^{24} = -8.7^\circ$ ($c = 0.23$, $CHCl_3$). Source:
GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 761.

**12755 Licoagrodin**

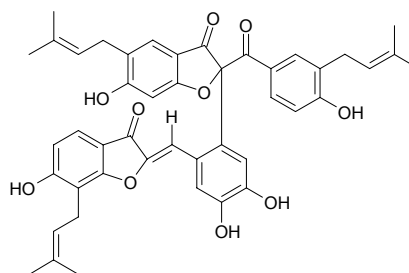
$C_{45}H_{44}O_9$ (728.85). Yellow powder, $[\alpha]_D^{24} = 0^\circ$ ($c = 1.12$, MeOH). Source:
GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 761.

**12756 Licoagroisoflavone**

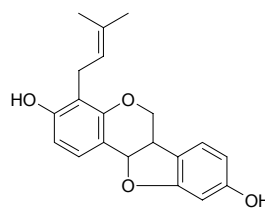
$C_{20}H_{16}O_5$ (336.35). Pale yellow powder, mp 196~198°C, $[\alpha]_D = -68.1^\circ$ ($c = 0.81$, MeOH). Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora* (root),
Glycyrrhiza sp. Ref: 2431, 5200.

**12757 Licoagrone**

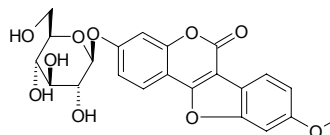
$C_{45}H_{42}O_{10}$ (742.83). Orange powder, $[\alpha]_D^{24} = \pm 0.13^\circ$ ($c = 1.01$, MeOH).
Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 1856.

**12758 Licoagropin**

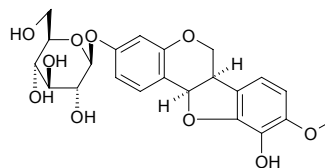
$C_{20}H_{20}O_4$ (324.38). Source: *Glycyrrhiza* sp. Ref: 2431.

**12759 Licoagroside C**

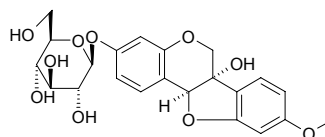
Licoagroside $C_{22}H_{20}O_{10}$ (444.40). Colorless needles (MeOH), mp 245~247°C,
 $[\alpha]_D = -23.1^\circ$ ($c = 0.40$, MeOH). Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora* (root),
Glycyrrhiza sp. Ref: 2431, 5200.

**12760 Licoagroside D**

$C_{22}H_{24}O_{10}$ (448.43). Powder, $[\alpha]_D = -117.4^\circ$ ($c = 1.09$, MeOH, 22°C). Source:
CI GUO GAN CAO *Glycyrrhiza pallidiflora*. Ref: 1954.

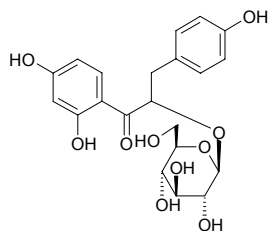
**12761 Licoagroside E**

$C_{22}H_{24}O_{10}$ (448.43). Powder, $[\alpha]_D = -176.4^\circ$ ($c = 0.66$, MeOH). Source: CI
GUO GAN CAO *Glycyrrhiza pallidiflora*. Ref: 1954.

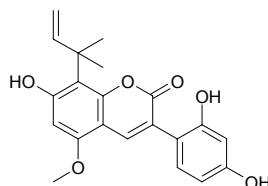


12762 Licoagroside F

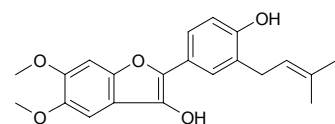
$C_{21}H_{24}O_{10}$ (436.42). Powder, $[\alpha]_D = 2.6^\circ$ ($c=0.91$, MeOH). Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora*. Ref: 1954.

**12763 Licoarylcoumarin**

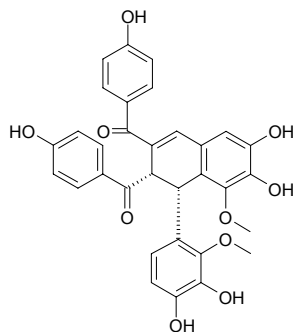
$C_{21}H_{20}O_6$ (368.39). Source: *Glycyrrhiza* sp. Ref: 2431.

**12764 Licobenzofuran**

Liconeolignan [82209-75-4] $C_{21}H_{22}O_5$ (354.41). White lamellar crystals, mp 80–81°C, 109–110°C. Pharm: Antibacterial (*Staphylococcus aureus* 20, 50, 109, 295µg/mL). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 658, 660.

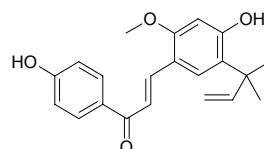
**12765 Licobichalcone**

$C_{32}H_{26}O_{10}$ (570.56). Yellow powder, $[\alpha]_D^{24} = 0^\circ$ ($c = 0.7$, MeOH). Source: GAN CAO *Glycyrrhiza uralensis* (root). Ref: 4382.

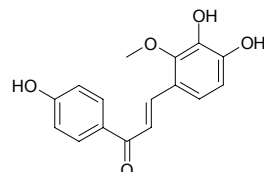
**12766 Licochalcone A**

[58749-22-7] $C_{21}H_{22}O_4$ (338.41). Yellow needles, mp 101–102°C. Pharm: Cytotoxic (HT1080 cell line, $IC_{50} = 57.0\mu\text{mol/L}$)^[4470]; anti-inflammatory (mus, 0.5mg/ear, inhibits edema on ears induced by TPA and arachidonic acid); antineoplastic (mus, *in vitro* inhibits TPA-induced ^{32}P combines with phospholipid in HeLa cells, $ID_{50} = 5.3\mu\text{g/mL}$; *in vivo* inhibits papillary epithelioma induced by DMBA and TPA); anti-HIV (20µg/mL, inhibits HIV-induced formation of giant-cell); antiallergic (inhibits synthesis of

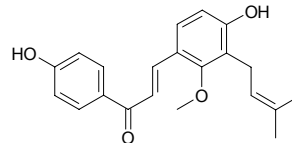
leukotriene in polymorphonuclear neutrocyte); xanthinoxidase inhibitor ($IC_{50} = 56\mu\text{mol/L}$); antibacterial (*Staphylococcus aureus*, MIC = 1.95µg/mL; *Bacillus subtilis*, MIC = 3.91µg/mL; methicillin-resistant *Staphylococcus aureus* MIC = 0.01µg/mL); antioxidant (antihemolysis induced by H_2O_2 , free radical scavenger); anticoagulant (hmn platelet, inhibits formation of COX metabolite TXB_2 induced by arachidonic acid, $IC_{50} = 3.9\mu\text{mol/L}$; 12(S)-HETE Production inhibitor ($IC_{50} = 82.3\mu\text{mol/L}$); antimalarial (*Plasmodium falciparum* strain 3D7, Dd2 *in vitro*; mouse, ip or orl, 3-6d, against *P. yoelii* plasmodial lethal infection). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*, HUANG GAN CAO *Glycyrrhiza kansuensis*. Ref: 2, 591, 1521, 1679, 1681, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 4470.

**12767 Licochalcone B**

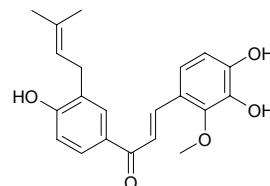
[58749-23-8] $C_{16}H_{14}O_5$ (286.29). Yellow needles, mp 195–197°C. Pharm: Antibacterial (*Staphylococcus aureus* MIC = 31.3µg/mL; *Bacillus subtilis* MIC = 31.3µg/mL); xanthinoxidase inhibitor ($IC_{50} = 30\mu\text{mol/L}$); antiallergic (hmn, inhibits synthesis of leukotriene in polymorphonuclear neutrocyte, enhances level of cAMP); platelet aggregation inhibitor; inhibits activation of leucocyte; used in treatment of arteriosclerosis, hyperlipidemia, thrombus and coronary heart disease. Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 1521, 1681, 1691, 1695, 1842.

**12768 Licochalcone C**

$C_{21}H_{22}O_4$ (338.41). Pharm: Cytotoxic (HT1080 cell line, $IC_{50} = 72.8\mu\text{mol/L}$)^[4470]. Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 660, 2431, 4470.

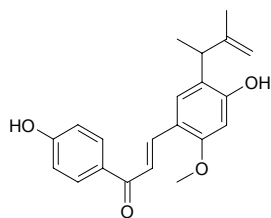
**12769 Licochalcone D**

$C_{21}H_{22}O_5$ (354.41). Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2431.

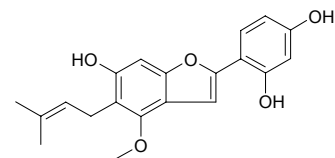


12770 Licochalcone E

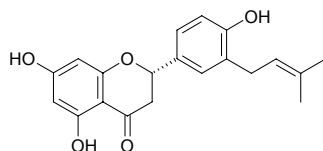
$C_{21}H_{22}O_4$ (338.41). amorphous powder, $[\alpha]_D = -10.0^\circ$ ($c = 0.2$, acetone).
Pharm: Cytotoxic (HT1080 cell line, $IC_{50} = 45.2 \mu\text{mol/L}$). **Source:** ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root). **Ref:** 4470.

**12771 Licocoumarone**

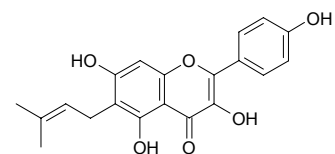
[118524-14-4] $C_{20}H_{20}O_5$ (340.38). Needles (EtOH aq.), mp 183–185°C.
Pharm: Antibacterial (*Streptococcus* sp. MIC = 12.5 $\mu\text{g/mL}$; *Staphylococcus aureus* MIC = 6.25 $\mu\text{g/mL}$; *Bacillus subtilis* MIC = 6.25 $\mu\text{g/mL}$; microzyme MIC = 25 $\mu\text{g/mL}$); antioxidant; xanthinoxidase inhibitor; monoamine oxidase inhibitor. **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2, 1521, 1681, 1682, 1701.

**12772 Licoflavanone**

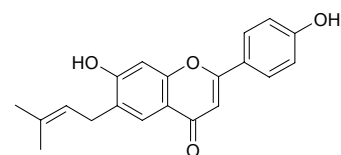
$C_{20}H_{20}O_5$ (340.38). **Source:** GUANG GUO GAN CAO *Glycyrrhiza glabra*. **Ref:** 2431.

**12773 Licoflavonal**

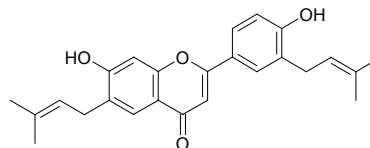
$C_{20}H_{18}O_6$ (354.36). **Source:** *Glycyrrhiza* sp. **Ref:** 2431.

**12774 Licoflavone A**

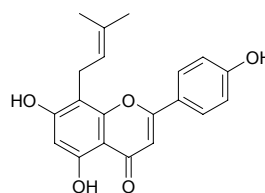
Licoflavone [61153-77-3] $C_{20}H_{18}O_4$ (322.36). **Source:** JI GAN CAO *Glycyrrhiza echinata* (cultured cell), ZHANG GUO GAN CAO *Glycyrrhiza inflata*. **Ref:** 2, 660, 1521.

**12775 Licoflavone B**

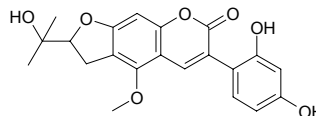
$C_{25}H_{26}O_4$ (390.48). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*. **Ref:** 2431.

**12776 Licoflavone C**

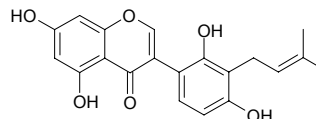
$C_{20}H_{18}O_5$ (338.36). **Source:** ZHANG GUO GAN CAO *Glycyrrhiza inflata*. **Ref:** 2431.

**12777 Licofuranocoumarin**

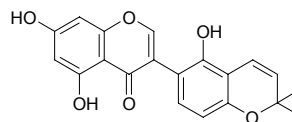
$C_{21}H_{20}O_7$ (384.39). Pale-yellow acicular crystals, mp 242°C, $[\alpha]_D = -4.2^\circ$ ($c = 1$, EtOH). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 748.

**12778 Licoisoflavone**

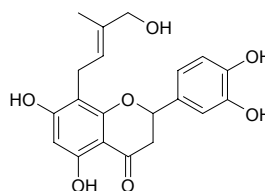
Licoisoflavone A [66056-19-7] $C_{20}H_{18}O_6$ (354.36). Pale-yellow prisms. **Pharm:** Antifungal. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2, 658, 1521.

**12779 Licoisoflavone B**

$C_{20}H_{16}O_6$ (352.35). **Source:** *Glycyrrhiza* spp. **Ref:** 2431.

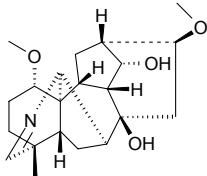
**12780 Licoleafol**

$C_{20}H_{20}O_7$ (372.38). Amorphous powder, $[\alpha]_D^{24} = -34^\circ$ ($c = 1.0$, MeOH). **Source:** GAN CAO *Glycyrrhiza uralensis* (leaf). **Ref:** 4387.

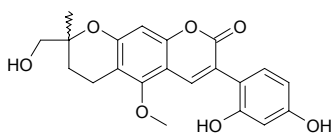


12781 Liconosine A

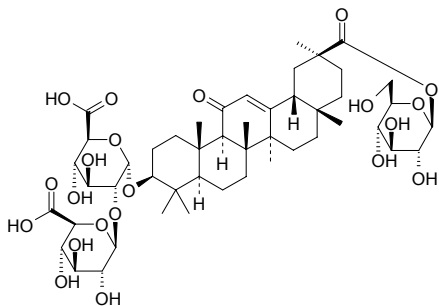
$C_{21}H_{31}NO_4$ (361.49). Source: LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*]. Ref: 660.

**12782 Licopyranocoumarin**

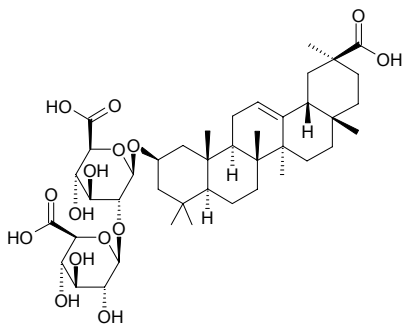
[117038-80-9] $C_{21}H_{20}O_7$ (384.39). Yellow crystals, mp 137°C, $[\alpha]_D^{25} = +14^\circ$ ($c = 1$, Me₂CO). Pharm: Anti-HIV (hmn, 20µg/mL, inhibits formation of giant-cell without cytotoxicity); monoamine oxidase inhibitor ($IC_{50} = 140\mu\text{mol/L}$). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521, 1679, 1682.

**12783 Licoricesaponin A₃**

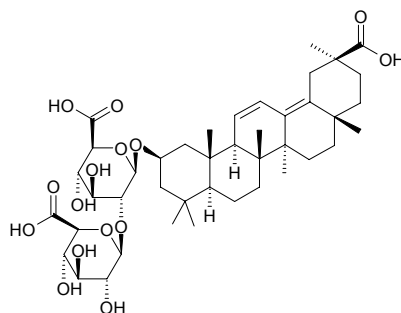
[118325-22-7] $C_{48}H_{72}O_{21}$ (985.10). Trihydrate, mp 196–199°C, $[\alpha]_D^{23} = +69^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*, ZHANG GUO *Glycyrrhiza inflata*. Ref: 2, 1521.

**12784 Licoricesaponin B₂**

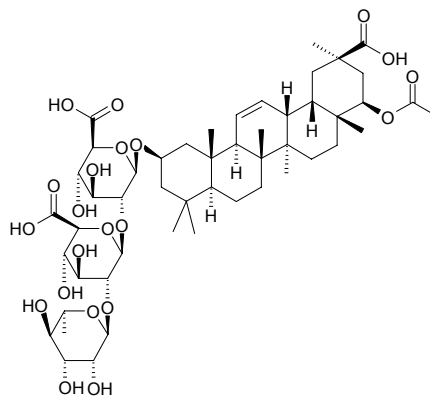
[118536-86-0] $C_{42}H_{64}O_{15}$ (808.97). Monohydrate, mp 209–210°C, $[\alpha]_D^{19} = +54^\circ$ (MeOH). Pharm: Antihepatotoxin (rat, *in vivo* and *in vitro*, liver damage caused by CCl₄). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521, 1781, 1782.

**12785 Licoricesaponin C₂**

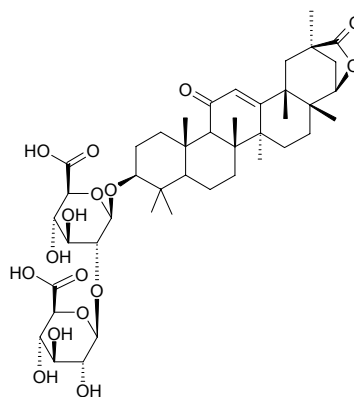
[120711-08-2] $C_{42}H_{62}O_{15}$ (806.95). Trihydrate, mp 249–251°C, $[\alpha]_D^{21} = -120^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521.

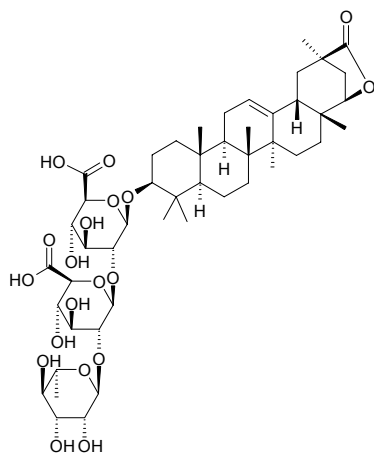
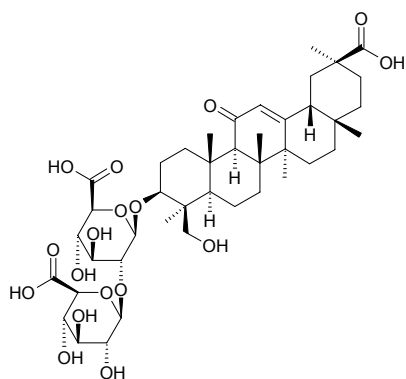
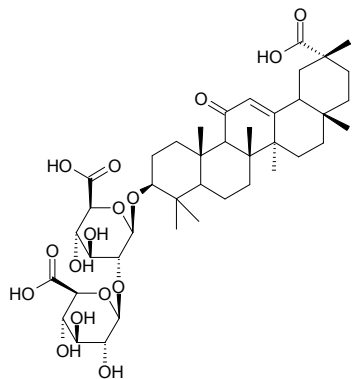
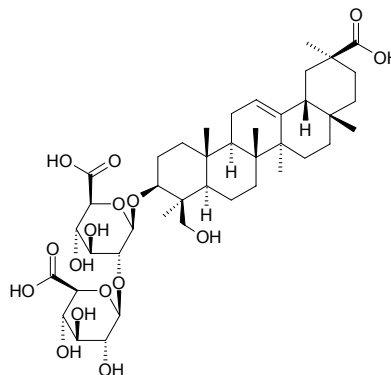
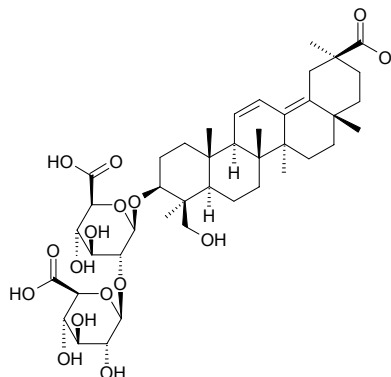
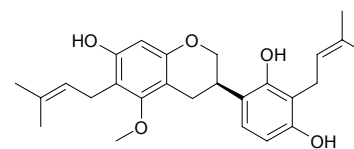
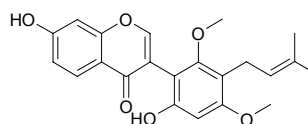
**12786 Licoricesaponin D₃**

[118536-87-1] $C_{50}H_{76}O_{21}$ (1013.15). Powder, $[\alpha]_D^{20} = -5^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521.

**12787 Licoricesaponin E₂**

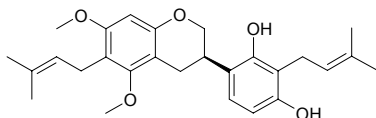
$C_{42}H_{60}O_{16}$ (820.94). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 660.



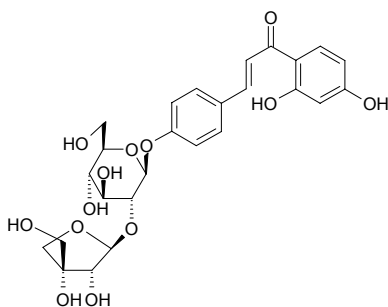
12788 Licoricesaponin F₃C₄₈H₇₂O₁₉ (953.10). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.**12789 Licoricesaponin G₂**C₄₂H₆₂O₁₇ (838.95). mp 229–230°C, $[\alpha]_D^{20} = +34^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 1521.**12790 Licoricesaponin H₂**C₄₂H₆₂O₁₆ (822.95). mp 209–210°C, $[\alpha]_D^{25} = +31^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 2, 1521.**12791 Licoricesaponin J₂**C₄₂H₆₄O₁₆ (824.97). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.**12792 Licoricesaponin K₂**C₄₂H₆₂O₁₆ (822.95). mp 207–209°C, $[\alpha]_D^{25} = +28^\circ$ (MeOH). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521.**12793 Licoricidin**[30508-27-1] C₂₆H₃₂O₅ (424.54). Crystals (CHCl₃–Et₂O), mp 154–156°C, $[\alpha]_D^{22.5} = +20^\circ$ (*c* = 1, MeOH). Source: GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2, 1521.**12794 Licoricone**C₂₂H₂₂O₆ (382.42). mp 250–251°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 1521.

12795 Licorisoflavan A

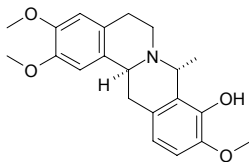
5-O-Methyl licoricidin $C_{27}H_{34}O_5$ (438.57). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 660.

**12796 Licuroside**

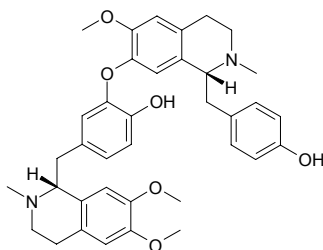
$C_{26}H_{30}O_{13}$ (550.52). Source: *Glycyrrhiza* sp. Ref: 2431.

**12797 Lienkonine**

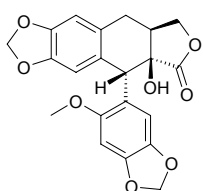
$C_{21}H_{25}NO_4$ (355.44). Source: HUANG ZI JIN *Corydalis ochotensis*. Ref: 660.

**12798 Liensinine**

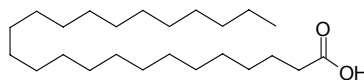
[2586-96-1] $C_{37}H_{42}N_2O_6$ (610.76). mp 95–99°C, $[\alpha]_D^{31} = +15.85^\circ$ ($c = 0.883$, Me₂CO). Pharm: Antihypertensive; antiarrhythmic (gpg, 3mg/kg); LD₅₀ = (mus, iv) = (34.9±5.5)mg/kg. Source: LIAN ZI *Nelumbo nucifera*, LIAN ZI XIN *Nelumbo nucifera* (dried plumule and radicle in seed: mean content of 7 origins = 0.793%^[5508]). Ref: 6, 658, 1521, 5501, 5508.

**12799 Lignan from *Justicia heterocarpa***

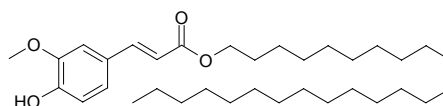
$C_{21}H_{18}O_8$ (398.37). Colorless crystals; mp 215 °C, $[\alpha]_D^{22} = +75.0^\circ$ ($c = 0.33$, CHCl₃). Source: *Justicia heterocarpa*. Ref: 4282.

**12800 Lignoceric acid**

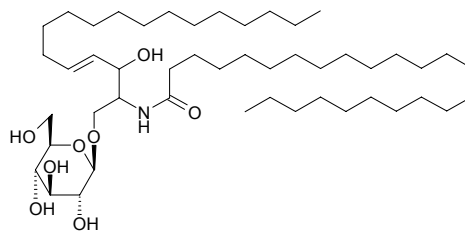
n-Tetracosanoic acid [557-59-5] $C_{24}H_{48}O_2$ (368.65). Crystals (AcOH), mp 87.5–88°C. Source: CHAI HU *Bupleurum chinense*, DANG GUI *Angelica sinensis*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], GUA LOU *Trichosanthes kirilowii*, HAI HONG DOU *Adenantha pavonina*, LI JIANG QIAN HU *Peucedanum govanianum* var. *bicolor*, MAO ZHU MA QIAN *Strychnos nitida*, QIANG HUO *Notopterygium incisum*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.040%dw)^[4655]. Ref: 2, 557, 576, 658, 1521, 4655.

**12801 Lignoceryl ferulate**

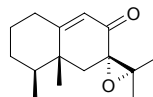
$C_{34}H_{58}O_4$ (530.84). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**12802 N-Lignoceryl sphingosyl glucose**

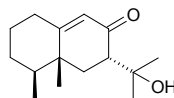
$C_{48}H_{93}NO_8$ (812.28). Pharm: Reagent used in biochemistry research. Source: JING MI *Oryza sativa*. Ref: 6, 658.

**12803 Ligudicin A**

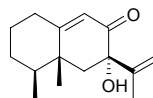
$C_{15}H_{22}O_2$ (234.34). Colorless oil. Source: WANG MAI TOU WU *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*]. Ref: 2478.

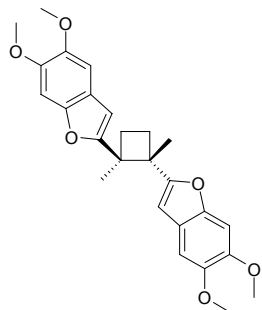
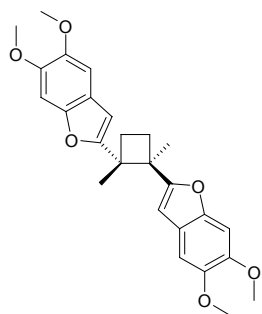
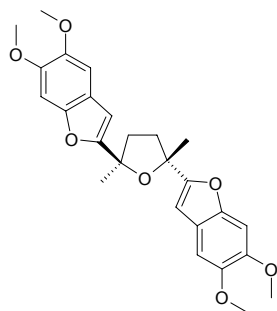
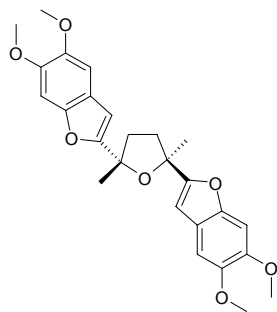
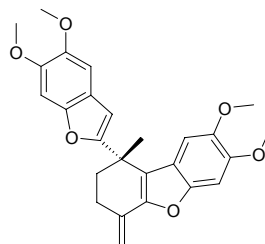
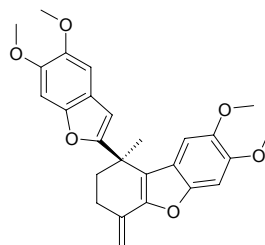
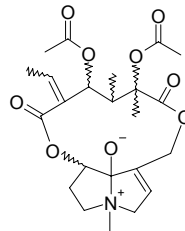
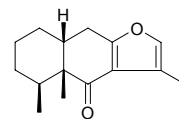
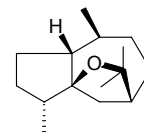
**12804 Ligudicin C**

$C_{15}H_{24}O_2$ (236.36). Colorless oleaginous liquid. Source: WANG MAI TOU WU *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*]. Ref: 2478.

**12805 Ligudicin D**

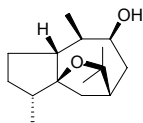
$C_{15}H_{22}O_2$ (234.34). Colorless oleaginous liquid. Source: WANG MAI TOU WU *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*]. Ref: 2478.



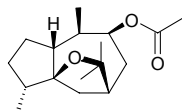
12806 (+)-(10S,10'S)-Ligulacephalin AC₂₆H₂₈O₆ (436.51). Amorphous powder, [α]_D²⁵ = +146.1° (*c* = 0.05, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12807 (-)-(10R,10'R)-Ligulacephalin A**C₂₆H₂₈O₆ (436.51). Amorphous powder, [α]_D²⁶ = -151.2° (*c* = 0.05, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12808 (+)-(10R,10'R)-Ligulacephalin B**C₂₆H₂₈O₇ (452.51). Amorphous powder, [α]_D²⁷ = +65.5° (*c* = 0.06, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12809 (-)-(10S,10'S)-Ligulacephalin B**C₂₆H₂₈O₇ (452.51). Amorphous powder, [α]_D²⁸ = -67.6° (*c* = 0.05, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12810 (+)-(10S)-Ligulacephalin C**C₂₆H₂₆O₆ (434.49). Amorphous powder, [α]_D²² = +89.3° (*c* = 0.06, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12811 (-)-(10S)-Ligulacephalin C**C₂₆H₂₆O₆ (434.49). Amorphous powder, [α]_D²⁴ = -80.8° (*c* = 0.05, MeOH).Source: ZHAI TOU TUO WU *Ligularia stenocephala* (root). Ref: 4536.**12812 Ligularine**[34429-54-4] C₂₃H₃₁NO₉ (465.50). Noncrystal, [α]_D²⁴ = -34° (*c* = 0.82,CHCl₃). Source: CHI YE TUO WU *Ligularia dentata*, HU LU QI *Ligularia fischeri*, YA ZHI TUO WU *Ligularia elegans*. Ref: 6, 1521.**12813 Ligularone**[4234-94-0] C₁₅H₂₀O₂ (232.33). mp 64-65°C, [α]_D²⁷ = -57.7° (*c* = 1, CHCl₃).Source: FENG DOU CAI *Petasites japonicus*, HU LU QI *Ligularia fischeri*, XI BO LI YA TOU WU *Ligularia sibirica*. Ref: 6, 1521.**12814 Liguloxide**[21764-22-7] C₁₅H₂₆O (222.37). Crystals, mp 36°C, [α]_D²³ = -58.2° (*c* = 1,CHCl₃). Source: HU LU QI *Ligularia fischeri*. Ref: 6, 1521.

12815 Liguloxidol

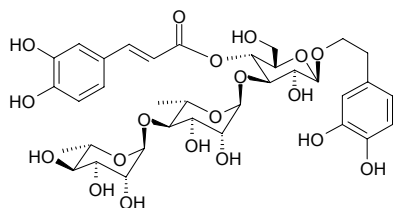
[21764-23-8] C₁₅H₂₆O₂ (238.37). Oil, $[\alpha]_D^{22} = -36.8^\circ$ ($c = 1$, CHCl₃). Source: HU LU QI *Ligularia fischeri*. Ref: 6, 1521.

**12816 Liguloxidol acetate**

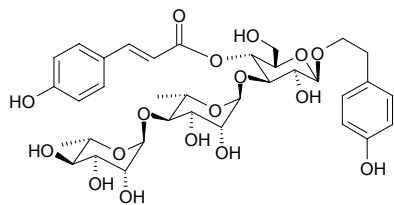
[18680-79-0] C₁₇H₂₈O₃ (280.41). mp 85°C. Source: HU LU QI *Ligularia fischeri*. Ref: 6.

**12817 Ligupurpuroside A**

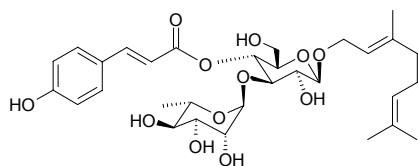
[147396-01-8] C₃₅H₄₆O₁₉ (770.75). Pharm: Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 26.3 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.124%dw). Ref: 4698.

**12818 Ligupurpuroside B**

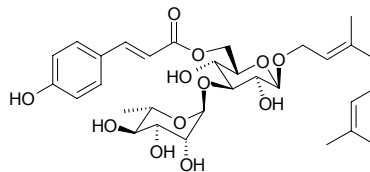
C₃₅H₄₆O₁₇ (738.75). Pharm: Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 80.4 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.019%dw). Ref: 4698.

**12819 LigurobustosideC**

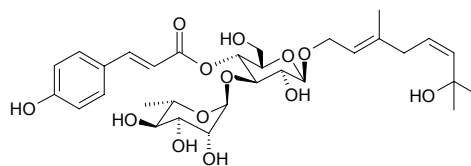
C₃₁H₄₄O₁₂ (608.69). Pharm: Antioxidant inactive (antihemolysis inactive, *in vitro*, AAPH-induced hemolysis of RBC; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.594%dw). Ref: 4698.

**12820 LigurobustosideE**

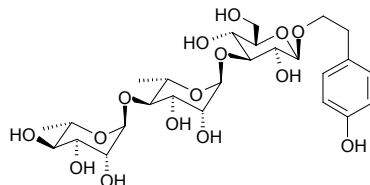
C₃₁H₄₄O₁₂ (608.69). Pharm: Antioxidant inactive (antihemolysis inactive, *in vitro*, AAPH-induced hemolysis of RBC; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.013%dw). Ref: 4698.

**12821 Ligurobustoside I**

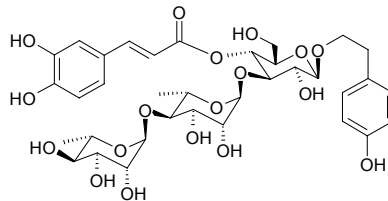
C₃₁H₄₄O₁₃ (624.69). Pharm: Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 340.1 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.032%dw). Ref: 4698.

**12822 LigurobustosideM**

C₂₆H₄₀O₁₅ (592.6). Amorphous powder, $[\alpha]_D^{24} = -67.4^\circ$ ($c = 0.03$, MeOH). Pharm: Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 134.1 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.020%dw). Ref: 4698.

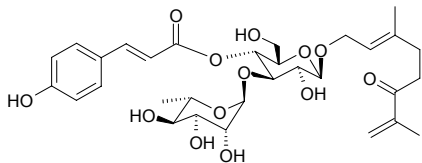
**12823 LigurobustosideN**

C₃₅H₄₆O₁₈ (754.75). Amorphous powder, $[\alpha]_D^{24} = -109^\circ$ ($c = 0.06$, MeOH). Pharm: Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 21.8 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). Source: CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.260%dw). Ref: 4698.

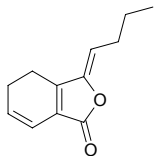


12824 Ligurobustoside O

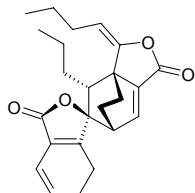
$C_{31}H_{42}O_{13}$ (622.67). Amorphous powder, $[\alpha]_D^{24} = -77.3^\circ$ ($c = 0.05$, MeOH). **Pharm:** Antioxidant inactive (antihemolysis inactive, *in vitro*, AAPH-induced hemolysis of RBC; control Trolox, $IC_{50} = 101 \mu\text{mol/L}$). **Source:** CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.028%dw). **Ref:** 4698.

**12825 Ligustilide**

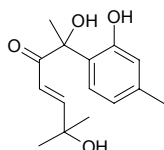
[4431-01-0] $C_{12}H_{14}O_2$ (190.24). **Pharm:** Anticholinergic; the strongest active component in Chinese Angelica, DANG GUI, *Angelica sinensis*; uterine relaxant (mus, caused by $PGF_{2\alpha}$). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (root and rhizome: content = 1.233%^[5508]), DANG GUI *Angelica sinensis* (root: content = 0.5%)^[5501], DONG DANG GUI *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], DUAN PIAN GAO BEN *Ligusticum brachylobum* (root and rhizome: content = 0.05%)^[5508], GAO BEN *Ligusticum sinense* (root and rhizome: content = 0.04%)^[5508], LIAO GAO BEN *Ligusticum jeholense* (root and rhizome: content = 0.87%^[5508]), OU DANG GUI *Levisticum officinale*, YAO YONG SHE CHUANG *Cnidium officinale* [Syn. *Ligusticum officinale*] (the highest content found), XIN JIANG GAO BEN *Conioselinum vaginatum* (root and rhizome: content = 0.48%^[5508]). **Ref:** 2, 343, 601, 658, 5501, 5508.

**12826 Ligustilide dimer**

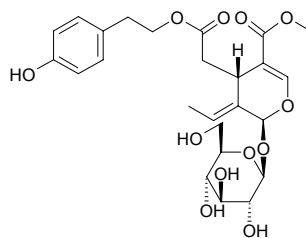
$C_{24}H_{28}O_4$ (380.49). **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (root and rhizome: content = 0.15%)^[5508], DANG GUI *Angelica sinensis*, LIAO GAO BEN *Ligusticum jeholense* (root and rhizome: content = 0.15%)^[5508], OU DANG GUI *Levisticum officinale*, XIN JIANG GAO BEN *Conioselinum vaginatum* (root and rhizome: content = 0.03%)^[5508]. **Ref:** 660, 5508.

**12827 Ligustilone**

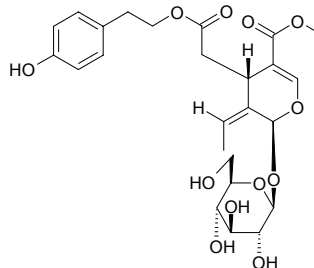
$C_{15}H_{20}O_4$ (264.32). **Pharm:** Immunosuppressant. **Source:** GAO BEN *Ligusticum sinense* (root and rhizome: content = 0.166%^[5508]). **Ref:** 5501, 5508.

**12828 (8E)-Ligustroside**

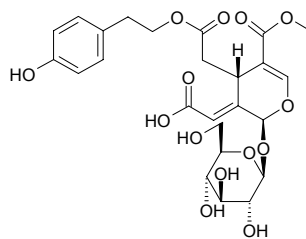
$C_{25}H_{32}O_{12}$ (524.53). **Pharm:** Antiviral (Hep2 cells, Para-3, $IC_{50} = 15.6 \mu\text{g/mL}$, $TI = 24.0$; MDCK cells, Flu-A, inactive; Vero cells, HSV-1, inactive)^[4141], anti-hemolysis inactive (rat, red blood cell *in vitro*, AAPH-induced, $IC_{50} > 200 \mu\text{mol/L}$, control Trolox, $IC_{50} = 55.0 \mu\text{mol/L}$)^[4141]. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 660, 3545, 4141.

**12829 (8Z)-Ligustroside**

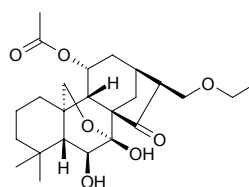
$C_{25}H_{32}O_{12}$ (524.53). Amorphous powder, $[\alpha]_D^{26} = -81.3^\circ$ ($c = 0.2$, MeOH). **Source:** BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). **Ref:** 4175.

**12830 Ligustrosidic acid**

$C_{25}H_{30}O_{14}$ (554.51). **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 660.

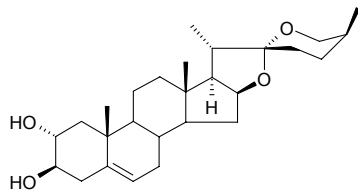
**12831 Lihsienin A**

$C_{24}H_{36}O_7$ (436.55). Amorphous powder, $[\alpha]_D = -76.9^\circ$ ($c = 0.09$, MeOH). **Source:** LI XIAN XIANG CHA CAI *Isodon lihsienensis*. **Ref:** 4067.

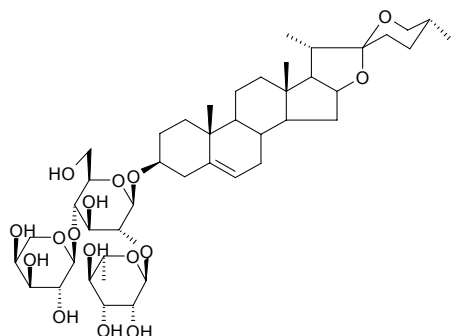


12832 Lilagenin

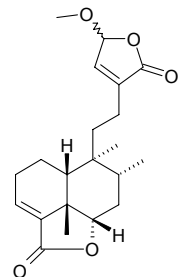
[469-99-8] C₂₇H₄₂O₄ (430.63). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**12833 Lililancifoloside A**

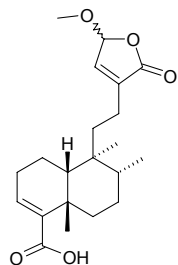
C₄₄H₇₀O₁₆ (855.04). White powder. Source: JUAN DAN *Lilium tigrinum* [Syn. *Lilium lancifolium*]. Ref: 2243.

**12834 Limbatolide A**

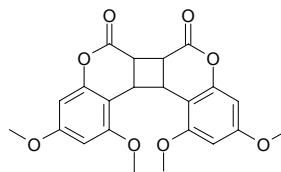
C₂₁H₂₈O₅ (360.45). Gummy solid, $[\alpha]_D^{23} = -85.79^\circ$ ($c = 0.25$, CHCl₃). Pharm: AChE inhibitor (*in vitro*, IC₅₀ = (38.5±0.2)μmol/L, positive control Galanthamine, IC₅₀ = (0.5±0.1)μmol/L); BChE inhibitor (*in vitro*, IC₅₀ = (22.3±0.5)μmol/L, positive control Galanthamine, IC₅₀ = (8.5±0.1)μmol/L). Source: YOU YAN AO TUO SI TE CAO *Otostegia limbata* (root). Ref: 4453.

**12835 Limbatolide B**

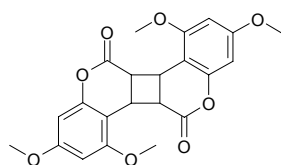
C₂₁H₃₀O₅ (362.47). Gummy solid, $[\alpha]_D^{23} = -32.80^\circ$ ($c = 0.16$, CHCl₃). Pharm: AChE inhibitor (*in vitro*, IC₅₀ = (47.2±0.3)μmol/L, positive control Galanthamine, IC₅₀ = (0.5±0.1)μmol/L); BChE inhibitor (*in vitro*, IC₅₀ = (17.5±0.6)μmol/L, positive control Galanthamine, IC₅₀ = (8.5±0.1)μmol/L). Source: YOU YAN AO TUO SI TE CAO *Otostegia limbata* (root). Ref: 4453.

**12836 (cis-head-to-head)-Limettin dimer**

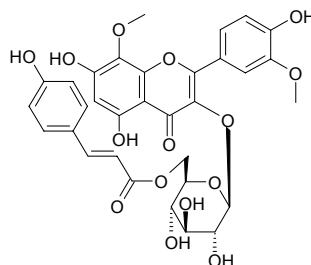
C₂₂H₂₀O₈ (412.40). Source: FO SHOU *Citrus medica* var. *sarcodactylis*. Ref: 660.

**12837 (cis-head-to-tail)-Limettin dimer**

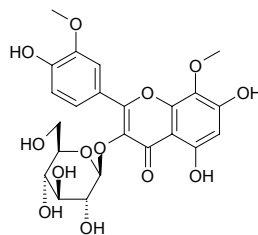
C₂₂H₂₀O₈ (412.40). Source: FO SHOU *Citrus medica* var. *sarcodactylis*. Ref: 660.

**12838 Limocitrin-3-O-(6''-O-p-coumaryl)-β-D-glucopyranoside**

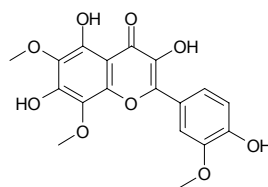
C₃₂H₃₀O₁₅ (654.59). Source: DONG NAN JING TIAN *Sedum alfredii* [Syn. *Sedum formosanum*]. Ref: 660.

**12839 Limocitrin-β-D-glucoside**

[38836-51-0] C₂₃H₂₄O₁₃ (508.44). Crystals (H₂O), mp 150°C. Pharm: Antihypertensive. Source: NING MENG *Citrus limon*, TIAN CHENG *Citrus sinensis*. Ref: 6, 1521.

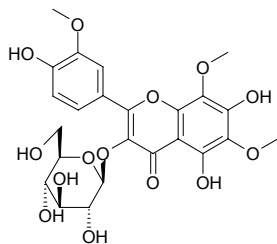
**12840 Limocitrol**

6-Hydroxy-limocitrin C₁₈H₁₆O₉ (376.32). Source: *Citrus* spp. Ref: 660.

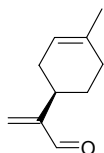


12841 Limocitrol- β -D-glucoside

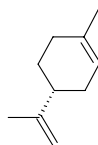
[77133-42-7] C₂₄H₂₆O₁₄ (538.47). mp 163°C, 203~204°C. Source: NING MENG *Citrus limon*. Ref: 6, 1521.

**12842 Limonene-10-al**

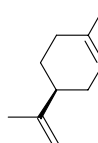
C₁₀H₁₄O (150.22). Colorless oil, $[\alpha]_D^{25} = +88^\circ$ ($c = 0.03$, CHCl₃). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 3.1 μ mol/L, control Gentian violet, MLC = 6.2 μ mol/L). Source: YI LANG QING LAN *Dracocephalum kotschyi*. Ref: 2579.

**12843 D-Limonene**

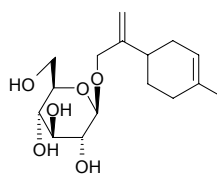
(R)-(+)-Limonene [5989-27-5] C₁₀H₁₆ (136.24). bp 178°C. Pharm: Antibacterial (*Diplococcus pneumoniae*, *Diplococcus catarrhal*, *Staphylococcus aureus* and α -Streptococcus); antitussive (dispels phlegm); irritant (to skin); sedative; antineoplastic (mus, skin cancer, lung cancer). Source: BAI PI SONG *Pinus bungeana*, BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], CHAI HU *Bupleurum chinense*, DA YE XIANG RU *Mosla dianthera*, DONG LING CAO *Rabdosia rubescens*, FENG XIANG SHU *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], GAN JIANG *Zingiber officinale*, GANG SONG *Baeckea frutescens*, GE LU ZI *Carum carvi*, HAI SONG ZI *Pinus koraiensis*, HOU PO *Magnolia officinalis*, HU SUI ZI *Coriandrum sativum*, HUA DONG LAN CI TOU *Echinops grijsii*, HUANG HUA HAO *Artemisia annua*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, HUI XIANG *Foeniculum vulgare*, HUO XIANG *Agastache rugosus*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JU PI *Citrus reticulata*, JU YUAN *Citrus medica*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, LU DOU LE HUA *Pandanus tectorius*, MU XU *Medicago sativa*, NAN HE SHI *Daucus carota*, OU ZHOU LENG SHAN *Abies alba*, QIANG HUO *Notopterygium incisum*, RU XIANG *Boswellia carterii*, SHENG JIANG *Zingiber officinale*, SHI LUO ZI *Anethum graveolens*, WU WEI ZI *Schisandra chinensis*, WU ZHU YU *Evodia rutaecarpa*, XI XIN *Asarum sieboldii*, XIAO YE PI PA *Rhododendron anthopogonoides*, YA ER QIN *Cryptotaenia japonica*, YIN CHEN HAO *Artemisia capillaris*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], *Mentha* sp., occurs in many plants. Ref: 2, 11, 658, 660, 1582, 5501.

**12844 L-Limonene**

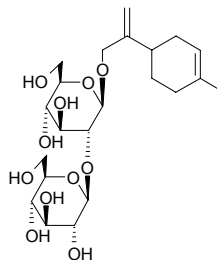
(S)-(-)-Limonene [5989-54-8] C₁₀H₁₆ (136.24). Source: ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 2.

**12845 Limonene-10-ol 10-O- β -D-glucopyranoside**

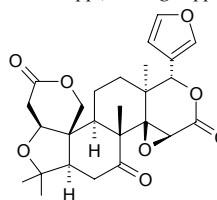
C₁₆H₂₆O₆ (314.38). Colorless gum, $[\alpha]_D^{24} = -7.6^\circ$ ($c = 0.26$, MeOH). Pharm: Antitrypanosomal inactive (epimastigotes of *Trypanosoma cruzi*, 400 μ mol/L). Source: YI LANG QING LAN *Dracocephalum kotschyi*. Ref: 2579.

**12846 Limonene-10-ol 10-O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside**

C₂₂H₃₆O₁₁ (476.53). Colorless powder, $[\alpha]_D^{24} = -8.3^\circ$ ($c = 0.03$, MeOH). Pharm: Antitrypanosomal inactive (epimastigotes of *Trypanosoma cruzi*, 400 μ mol/L). Source: YI LANG QING LAN *Dracocephalum kotschyi*. Ref: 2579.

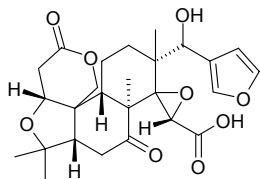
**12847 Limonin**

[1180-71-8] C₂₆H₃₀O₈ (470.52). White needles (EtOAc), mp 272~274°C. Pharm: Tyrosinase inhibitor (333 μ mol/L, InRt = 3.6%; control Kojic acid, IC₅₀ = 125 μ mol/L)^[4722]; Anti-HIV-1 (40 μ mol/L, InRt = (61 \pm 9)%, control Indinavir, 100nmol/L, InRt = 100%)^[5462]. Source: BEI CANG ZHU *Atractylodes chinensis*, SU DA QI GAN JU *Citrus sudachii* (seed), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00039%dw)^[4722], YIN DU LIAN *Azadiractia indica*, CHENG ZI *Citrus junos*, CHENG ZI HE *Citrus junos*, HUANG LIAN *Coptis chinensis*, JU PI *Citrus reticulata*, ZHI SHI *Citrus aurantium*, *Citrus* spp., *Dictamnus* spp., *Evodia* spp., *Luvunga* spp. Ref: 660, 1521, 2510, 3532, 4722, 5462.

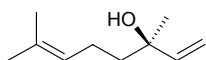


12848 Limonoic acid A ring lactone

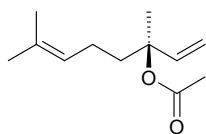
$C_{26}H_{32}O_9$ (488.54). Source: TIAN CHENG *Citrus sinensis*. Ref: 6.

**12849 Linalool**

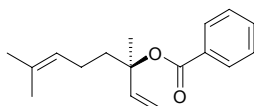
[78-70-6] $C_{10}H_{18}O$ (154.25). Pharm: Antibacterial; antifungal; antiviral (chicken ES4 virus, 1mg/day, orl, *in vivo*, biotic prolonged rate = (50~80)%); antiseptic; sedative (mus, orl, inhibits spontaneous movement). Source: CHAI HU *Bupleurum chinense*, HOU PO *Magnolia officinalis*, HUANG HUA HAO *Artemisia annua*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, HUO XIANG *Agastache rugosus*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN YIN HUA *Lonicera japonica*, JU PI *Citrus reticulata*, LIAN QIAO *Forsythia suspensa*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], MU XU *Medicago sativa*, NAN HE SHI *Daucus carota*, SHAN XING REN *Prunus armeniaca* var. *ansu*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XING REN *Prunus armeniaca*, YU XING CAO *Houttuynia cordata*, ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 2, 638, 658, 660.

**12850 Linalyl acetate**

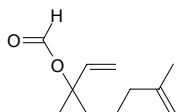
Linalool acetate [115-95-7] $C_{12}H_{20}O_2$ (196.29). bp 115~116°C/25mmHg. Pharm: Antineoplastic (mouse S₁₈₀, 1mg/kg ip, InRt = 45.3%). Source: HOU PO *Magnolia officinalis*, HU TAO REN *Juglans regia*, HUANG HUA HAO *Artemisia annua*, JU YUAN *Citrus medica*, NING MENG *Citrus limon*, SHE XIANG CAO *Thymus vulgaris*, YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 2, 6, 658, 660.

**12851 Linalyl benzoate**

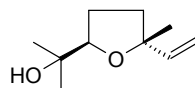
[126-64-7] $C_{17}H_{22}O_2$ (258.36). Source: MO LI HUA *Jasminum sambac*. Ref: 6.

**12852 Linalylformate**

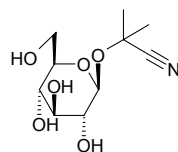
$C_{11}H_{18}O_2$ (182.26). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**12853 Linalyl oxide**

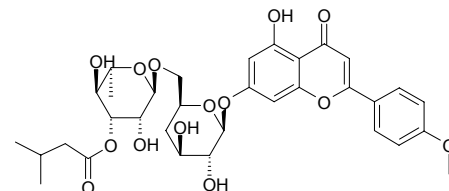
Epoxylinalool [60047-17-8] $C_{10}H_{18}O_2$ (170.25). Source: GUI HUA *Osmanthus fragrans*, JIN YIN HUA *Lonicera japonica*, MA HUA *Cannabis sativa*, PI PA YE *Eriobotrya japonica*, XIANG YE *Pelargonium graveolens*. Ref: 6, 660.

**12854 Linamarin**

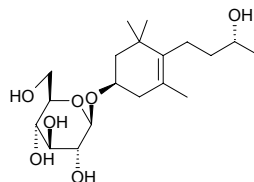
[554-35-8] $C_{10}H_{17}NO_6$ (247.25). mp 142~143°C. Pharm: Toxin (main active component in Cassava). Source: MU SHU DI SHANG BU FEN *Manihot esculenta*, YA MA *Linum usitatissimum*, YA MA ZI *Linum usitatissimum*, Ref: 6, 658, 5509.

**12855 Linarin isovalerate**

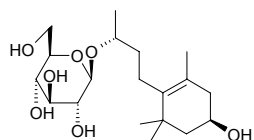
$C_{33}H_{40}O_{14}$ (660.68). mp 138~140°C. Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 6.

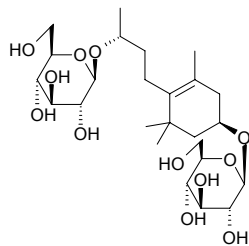
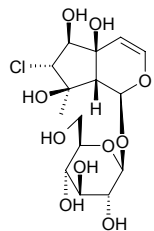
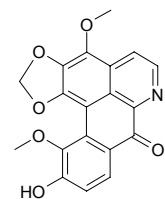
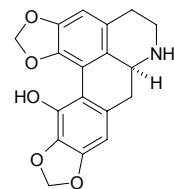
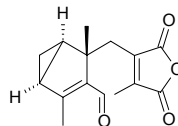
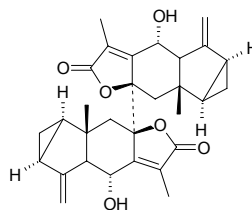
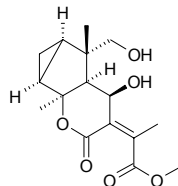
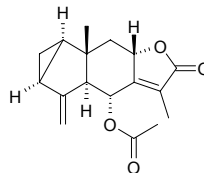
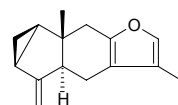
**12856 Linarionoside A**

[160169-57-3] $C_{19}H_{34}O_7$ (374.48). White powder, mp 108~110°C. Source: HAI BIN LIU CHUAN YU *Linaria japonica*, XI YANG SHEN *Panax quinquefolium*. Ref: 445, 652.

**12857 Linarionoside B**

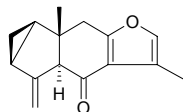
[160169-58-4] $C_{19}H_{34}O_7$ (374.48). Source: HAI BIN LIU CHUAN YU *Linaria japonica*. Ref: 652.



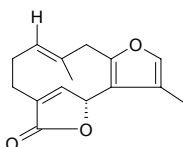
12858 Linarionoside C[160098-75-9] C₂₅H₄₄O₁₂ (536.62). Source: HAI BIN LIU CHUAN YU*Linaria japonica*. Ref: 652.**12859 Linarioside**C₁₅H₂₃ClO₁₀ (398.80). Source: HAI BIN LIU CHUAN YU *Linaria japonica* (the compound was isolated from the plant by I.Kitagawa et al. in 1972). Ref: 5505.**12860 Lindechunine A**C₁₉H₁₃NO₆ (351.32). Yellow powder, [α]_D²⁶ = 0° (c = 0.1, MeOH). Pharm: Anti-HIV-1 (HIV-1 IN inhibitor, IC₅₀ = 21.1 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12861 Lindechunine B**C₁₈H₁₅NO₅ (325.32). Grayish amorphous powder, [α]_D^{26.5} = +43.0° (c = 0.01, MeOH). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12862 Lindenanolide E**C₁₅H₁₆O₄ (260.29). Colorless needles (hexane-acetone), mp151–153°C, [α]_D²⁶ = -70.1° (c = 1.01, CHCl₃). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12863 Lindenanolide F**C₃₀H₃₄O₆ (490.60). Amorphous powder, [α]_D²⁶ = -303.5° (c = 0.21, CHCl₃). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12864 Lindenanolide G**C₁₆H₂₂O₆ (310.35). Oil, [α]_D²⁶ = -250° (c = 0.2, MeOH). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12865 Lindenanolide H**C₁₇H₂₀O₄ (288.35). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.**12866 Lindenene**[24173-83-9] C₁₅H₁₈O (214.31). Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6.

12867 Lindenenone

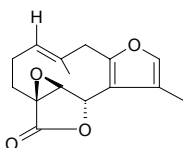
[26379-19-1] C₁₅H₁₆O₂ (228.29). mp 108°C. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6, 1521.

**12868 Linderalactone**

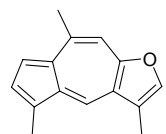
Neolinderalactone [728-61-0] C₁₅H₁₆O₃ (244.29). mp 140°C. Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L)^[4224]. Source: DING HU DIAO ZHANG *Lindera chunii* (root), WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*] (root): content scope of 10 origins = 0.0198%~0.1460%, mean content = 0.0624%^[5508]. Ref: 6, 1521, 4224, 5508.

**12869 Linderane**

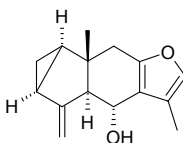
[13476-25-0] C₁₅H₁₆O₄ (260.29). mp 190~191°C (dec). Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*] (root): content scope of 39 origins = 0.0283%~0.222%, mean content = 0.083%^[5508]. Ref: 6, 5508.

**12870 Linderazulene**

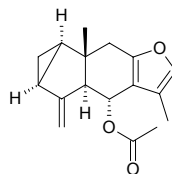
[489-79-2] C₁₅H₁₄O (210.28). mp 106~107°C. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6.

**12871 Linderene**

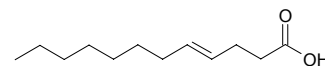
Lindeneol [26146-27-0] C₁₅H₁₈O₂ (230.31). mp 145°C. Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L)^[4224]. Source: DING HU DIAO ZHANG *Lindera chunii* (root), WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6, 1521, 4224.

**12872 Linderene acetate**

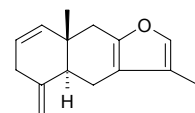
Lindeneol acetate C₁₇H₂₀O₃ (272.35). mp 82°C. Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L)^[4224]. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*], DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 6, 660, 4224.

**12873 Linderic acid**

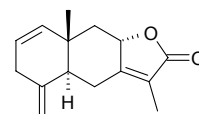
C₁₂H₂₂O₂ (198.31). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 2.

**12874 Lindestrene**

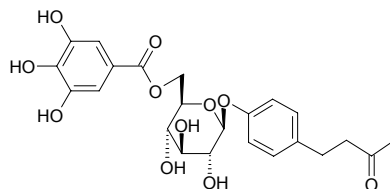
[2221-88-7] C₁₅H₁₈O (214.31). bp 100~102°C/2mmHg. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6.

**12875 Lindestrenolide**

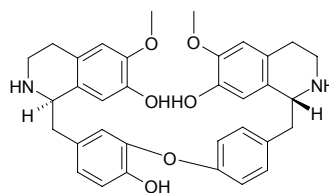
[20267-90-7] C₁₅H₁₈O₂ (230.31). bp 100~105°C/0.2mmHg. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 6.

**12876 Lindleyin**

[59282-56-3] C₂₃H₂₆O₁₁ (478.46). Source: TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660, 1521.

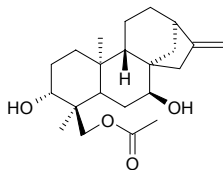
**12877 Lindoldhamine**

C₃₄H₃₆N₂O₆ (568.68). Source: HEI KE NAN *Lindera megaphylla*. Ref: 660.

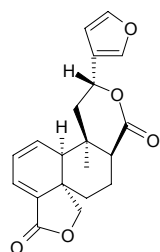


12878 Linearol

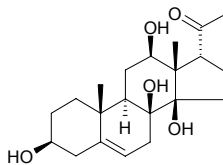
$C_{22}H_{34}O_4$ (362.51). Colorless needles ($CHCl_3$). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**12879 Linearolactone**

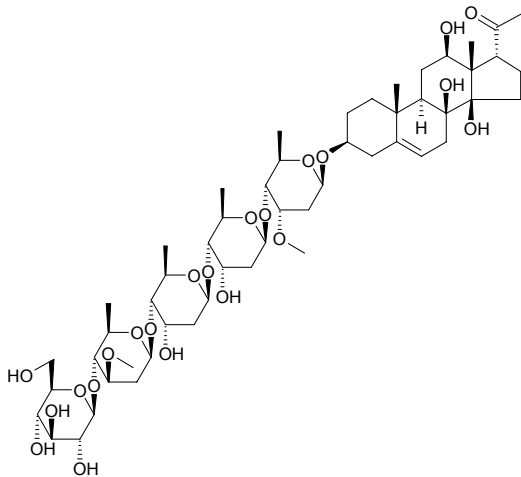
$C_{20}H_{20}O_5$ (340.38). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts), TIAO WEN SHU WEI CAO *Salvia lineata*. Ref: 1521, 3901.

**12880 Lineolone**

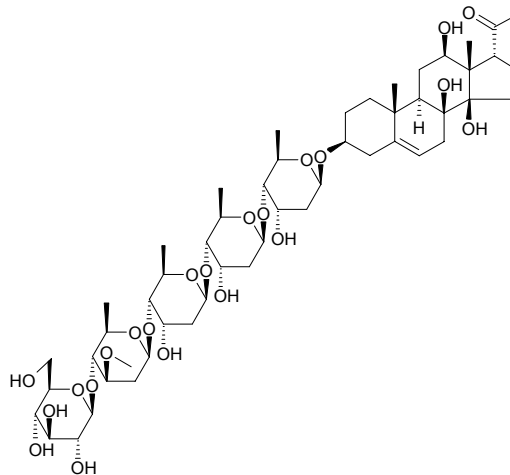
Deacylcynanchogenin $C_{21}H_{32}O_5$ (364.49). mp 240~244°C. Source: BAI SHOU WU *Cynanchum bungei*, FU SHOU CAO *Adonis amurensis*, LUO MO *Metaplexis japonica*, XU CHANG QING *Cynanchum paniculatum*, ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 6, 1521, 3925.

**12881 Lineolon-3-O-β-D-glucopyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranoside**

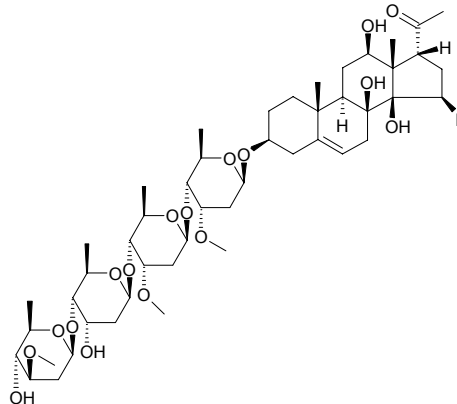
$C_{53}H_{86}O_{22}$ (1075.26). Amorphous powder, $[\alpha]_D^{27} = +18.7^\circ$ ($c = 0.78$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**12882 Lineolon-3-O-β-D-glucopyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

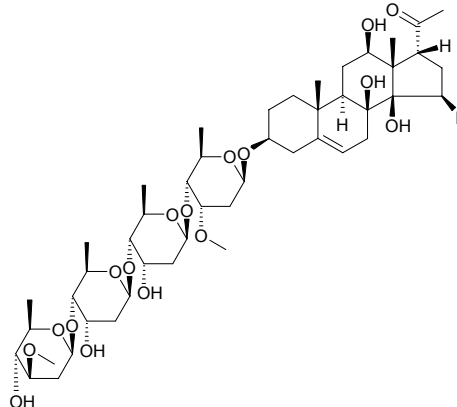
$C_{52}H_{84}O_{22}$ (1061.24). Amorphous powder, $[\alpha]_D^{27} = +6.5^\circ$ ($c = 0.73$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**12883 Lineolon-3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside**

$C_{48}H_{78}O_{17}$ (927.15). Amorphous powder, $[\alpha]_D^{27} = +14.2^\circ$ ($c = 0.46$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

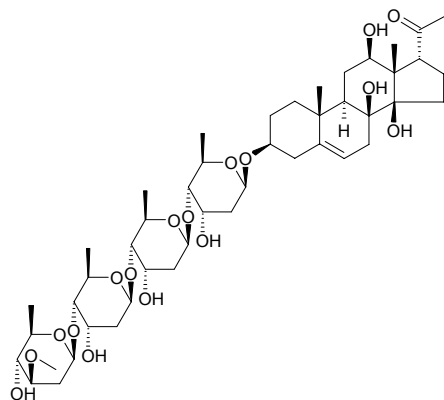
**12884 Lineolon-3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranoside**

$C_{47}H_{76}O_{17}$ (913.12). Amorphous powder, $[\alpha]_D^{27} = +8.9^\circ$ ($c = 0.97$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



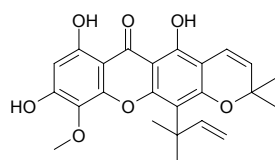
12885 Lineolon-3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₄₆H₇₄O₁₇ (899.09). Amorphous powder, $[\alpha]_D^{24} = +3.2^\circ$ ($c = 1.24$, MeOH).
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). **Ref:** 3925.



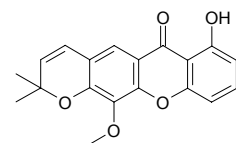
12886 Linixanthone A

C₂₄H₂₄O₇ (424.45). Light yellow needles (*n*-hexane-EtOAc), mp 174–176°C.
Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 4.88 μ g/mL, control Mithramycin ED₅₀ = 0.06 μ g/mL, HT29 ED₅₀ = 5.34 μ g/mL, control Mithramycin ED₅₀ = 0.08 μ g/mL).
Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. **Ref:** 4094.



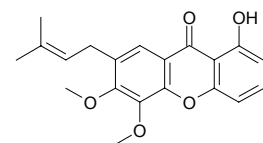
12887 Linixanthone B

C₁₉H₁₆O₅ (324.34). Colorless needles (EtOAc), mp 171–172°C. **Pharm:** Cytotoxic (P₃₈₈ ED₅₀ = 1.43 μ g/mL, control Mithramycin ED₅₀ = 0.06 μ g/mL, HT29 ED₅₀ = 3.14 μ g/mL, control Mithramycin ED₅₀ = 0.08 μ g/mL). **Source:** TAI WAN LV DAO TENG HUANG *Garcinia linii*. **Ref:** 4094.



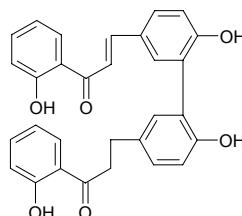
12888 Linixanthone C

C₂₀H₂₀O₅ (340.38). Light yellow needles (*n*-hexane-acetone), mp 127–129°C.
Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 1.44 μ g/mL, control Mithramycin ED₅₀ = 0.06 μ g/mL, HT29 ED₅₀ = 1.54 μ g/mL, control Mithramycin ED₅₀ = 0.08 μ g/mL).
Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*. **Ref:** 4094.



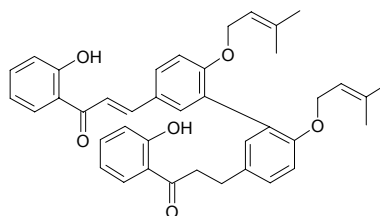
12889 3-3''Linked-(2'-hydroxy-4-hydroxychalcone)-(2'''-hydroxy-4''-hydroxy dihydrochalcone)

C₃₀H₂₄O₆ (480.52). mp 107–109°C, hydrolysis product. **Pharm:** MAO-A inhibitor (rat brain mitochondrial enzyme, IC₅₀ = 12.5 μ g/mol/L); MAO-B inhibitor (rat brain mitochondrial enzyme, IC₅₀ = 6.2 μ g/mol/L). **Source:** HUANG LONG DAN *Gentiana lutea*. **Ref:** 3838.



12890 3-3''Linked-(2'-hydroxy-4-*O*-isoprenylchalcone)-(2'''-hydroxy-4''-*O*-isoprenyl dihydrochalcone)

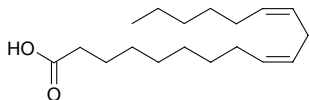
C₄₀H₄₀O₆ (616.76). Yellow needles (MeOH), mp 86–89°C. **Pharm:** MAO-A inhibitor (rat brain mitochondrial enzyme, IC₅₀ > 100 μ g/mol/L); MAO-B inhibitor (rat brain mitochondrial enzyme, IC₅₀ = 48.7 μ g/mol/L). **Source:** HUANG LONG DAN *Gentiana lutea*. **Ref:** 3838.



12891 *cis*-9,*cis*-12-Linoleic acid

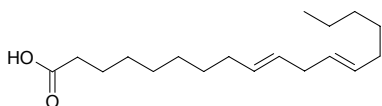
cis-9,*cis*-12-Octadecadienoic acid [60-33-3] C₁₈H₃₂O₂ (280.45). Yellowish oil, insoluble in water, soluble in absolute alcohol, diethyl ether, etc. **Pharm:** Antiallergic (rat, passive skin allergy, 300mg/kg orl, InRt = 60.9%); antihypercholesterolemic; nutrient; inhibits cancer cell invasion (MM1 cells, *in vitro*, 10 μ g/mL, InRt = 15.7%)^[4329]; COX-1 and COX-2 inhibitor (IC₅₀ = 3.9–180 μ mol/L, lacking selectivity)^[4415]. **Source:** BAI GUO *Ginkgo biloba*, BAN WEN LU HUI *Aloe vera* var. *chinensis*, BING LANG *Areca catechu*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA ZAO *Ziziphus jujuba*, DONG CHONG XIA CAO *Cordyceps sinensis*, DU HENG *Asarum forbesii*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GOU QI GEN PI *Lycium chinense*, GOU QI ZI *Lycium chinense*, GUA LOU *Trichosanthes kirilowii*, HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, HONG HUA *Carthamus tinctorius*, HUA DONG LAN CI TOU *Echinops griesii*, JI GUAN ZI *Celosia cristata* (seed), JIAN YE YIN YANG HUO *Epimedium sagittatum*, MAN JING ZI *Vitex trifolia*, MAN TUO LUO ZI *Datura metel*, MAO MAN TUO LUO ZI *Datura innoxia*, MENG GU HUANG QI *Astragalus mongholicus*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], QIANG HUO *Notopterygium incisum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN ZHA *Crataegus pinnatifida*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], TIAN HUA FEN *Trichosanthes kirilowii*, XI YANG SHEN *Panax quinquefolium*, XING REN *Prunus armeniaca*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus*

javanica], YA MA *Linum usitatissimum*, YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.020%dw)^[4655], YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*, ZI SU *Perilla frutescens* var. *arguta*, occurs in many plants. Ref: 2, 500, 660, 900, 4329, 4415, 4655.



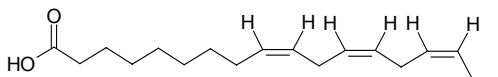
12892 *trans*-9,*trans*-12-Linoleic acid

trans,trans-Linoleic acid [506-21-8] C₁₈H₃₂O₂ (280.45). mp -5°C, bp 229-232°C/16mmHg. Source: LUO HUA SHENG *Arachis hypogaea*, XIANG RI KUI ZI *Helianthus annuus*. Ref: 6.



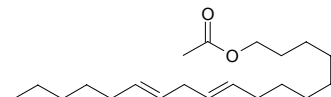
12893 Linolenic acid

(*Z,Z,Z*)-9,12,15-Octadecatrienoic acid [463-40-1] C₁₈H₃₀O₂ (278.44). Pharm: Nutrient; inhibits cancer cell invasion (MM1 cells, *in vitro*, 10µg/mL, InRt = 19.3%)^[4329]; 5α-reductase inhibitor (IC₅₀ = (160.3±24.6)µmol/L; control Finasteride, IC₅₀ = (0.38±0.06)µmol/L)^[5398]. Source: BA DOU *Croton tiglium*, BAN WEN LU HUI *Aloe vera* var. *chinensis*, CHAI HU *Bupleurum chinense*, CU LIU GUO *Hippophae rhamnoides*, DONG CHONG XIA CAO *Cordyceps sinensis*, GOU QI GEN PI *Lycium chinense*, GUA LOU *Trichosanthes kirilowii*, HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, HONG HUA *Carthamus tinctorius*, JI GUAN ZI *Celosia cristata* (seed), MENG GU HUANG QI *Astragalus mongholicus*, SHAN ZHA *Crataegus pinnatifida*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], TIAN HUA FEN *Trichosanthes kirilowii*, WU JIA PI *Acanthopanax gracilistylus*, XING REN *Prunus armeniaca*, YA MA *Linum usitatissimum*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0015%dw)^[4655], YIN YANG HUO *Epimedium brevicornum*, ZI SU *Perilla frutescens* var. *arguta*, ZI SU GENG *Perilla frutescens* var. *arguta*, occurs in many plants. Ref: 2, 658, 660, 4329, 4655, 5398.



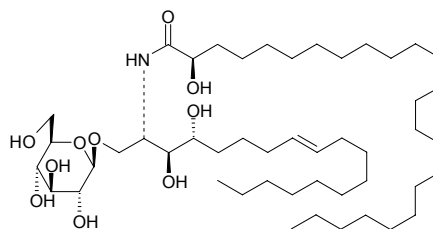
12894 Linoleyl acetate

[18266-22-3] C₂₀H₃₆O₂ (308.51). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 6.



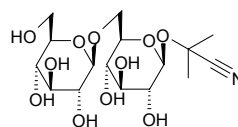
12895 Linum cerebroside

C₄₈H₉₃NO₁₀ (844.28). White amorphous powder, [α]_D¹⁵ = +5.0° (c = 0.002, MeOH-C₅H₅N). Source: YA MA *Linum usitatissimum* (root). Ref: 4562.



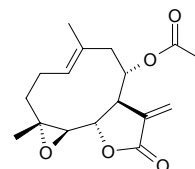
12896 Linustatin

[72229-40-4] C₁₆H₂₇NO₁₁ (409.39). Pharm: Toxin. Source: YA MA *Linum usitatissimum*. Ref: 658.



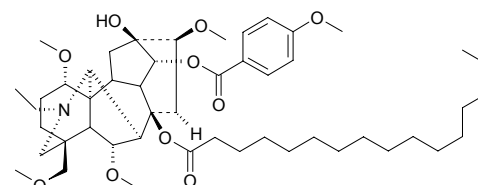
12897 Lipiferolide

[41059-80-7] C₁₇H₂₂O₅ (306.36). Crystals (ethanol-propane), mp 118-119°C, [α]_D²² = -125° (c = 0.06, methanol). Pharm: Cytotoxic (KB, ED₅₀ = 0.16µg/mL); insect antifeedant. Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*. Ref: 661.



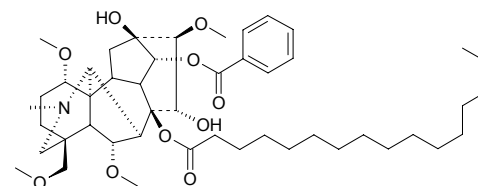
12898 Lipo-14-O-anisoylbikhaconine

C₄₉H₇₇NO₁₀ (840.16). Colorless oil (MeOH), [α]_D²³ = +18.7° (c = 0.135, CHCl₃). Source: FU ZI *Aconitum carmichaeli* (tuber). Ref: 4373.



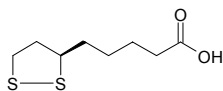
12899 Lipohyaconitine

C₄₇H₇₃NO₁₀ (812.11). Source: FU ZI *Aconitum carmichaeli* (tuber). Ref: 4373.

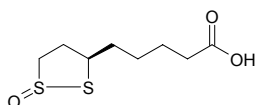


12900 α -Lipoic acid

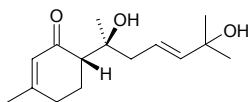
[62-46-4] C₈H₁₄O₂S₂ (206.33). mp (+) 46~48°C, (-) 45.0~47.5°C, (\pm) 59~61°C. Source: ZI CAI *Porphyra tenera*. Ref: 6.

**12901 β -Lipoic acid**

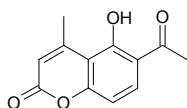
[6992-30-9] C₈H₁₄O₃S₂ (222.33). Source: ZI CAI *Porphyra tenera*. Ref: 6.

**12902 Lippidulcine A**

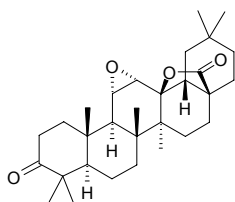
C₁₅H₂₄O₃ (252.36). Colorless oil, [α]_D³¹ = +123.6° (c = 0.1, CHCl₃). Source: TIAN SHE CAO *Lippia dulcis* (aerial parts). Ref: 4508.

**12903 Licooumarin**

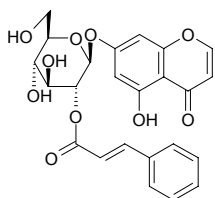
6-Acetyl-5-hydroxy-4-methyl coumarin [36695-19-9] C₁₂H₁₀O₄ (218.21). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 660.

**12904 Liquidambaric lactone**

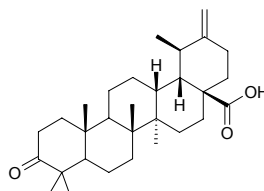
C₃₀H₄₄O₄ (468.68). White acicular crystals, mp > 300°C. Source: LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*]. Ref: 356, 1521.

**12905 Liquidamboside**

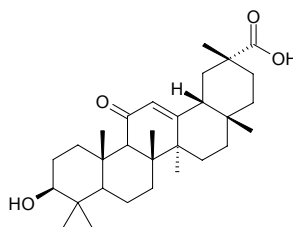
C₂₄H₂₂O₁₀ (470.44). Yellowish needles (Me₂CO), mp 210~212°C. Source: FENG XIANG JI SHENG *Viscum articulatum* (whole herb). Ref: 4864.

**12906 Liquidambronic acid**

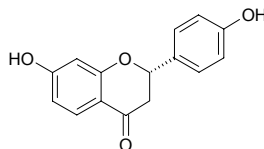
C₃₀H₄₆O₃ (454.70). Source: LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*] (resin). Ref: 660.

**12907 Liquiritic acid**

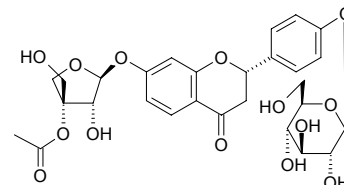
C₃₀H₄₆O₄ (470.70). Pharm: Anti-inflammatory. Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 660, 1521.

**12908 Liquiritigenin**

4,7-Dihydroxyflavanone [578-86-9] C₁₅H₁₂O₄ (256.26). White powder, mp 210~212°C. Pharm: Antispasmodic (releases intestinal spasm induced by histamine, acetylcholine and BaCl₂); antiulcerative (inhibits ulcer in pylorus-ligated rat); CNS activity; monoamine oxidase inhibitor (mitochondria in rat hepatic cells, *in vitro*). Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*, CI HUAI HUA *Robinia pseudoacacia*, GAN CAO *Glycyrrhiza uralensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, HUI HUI DOU *Cicer arietinum*, JIANG ZHEN XIANG *Dalbergia odorifera*, MAO MAN TUO LUO YE *Datura innoxia*, SI TE WEN HUANG TAN *Dalbergia stevensonii*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*, *Cicer* spp., *Dalbergia* spp., *Glycyrrhiza* spp., *Medicago* spp., *Myroxylon* spp., *Onobrychis* spp. Ref: 2, 458, 658, 660, 1521.

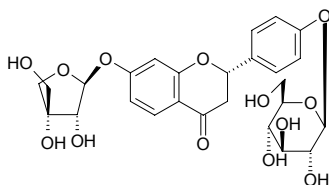
**12909 Liquiritigenin-7-O- β -D-(3-O-acetyl)-apiofuranosyl-4'-O- β -D-glucopyranoside**

C₂₈H₃₂O₁₄ (592.56). White powder, mp 201~202°C. Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 376.

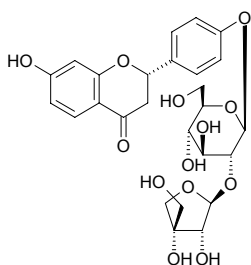


12910 Liquiritigenin-7-O-β-D-apiofuranosyl)-4'-O-β-D-glucopyranoside

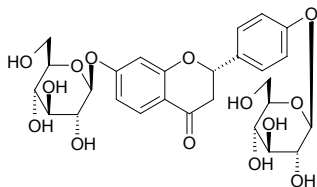
$C_{26}H_{30}O_{13}$ (550.52). White powder, mp 214–215°C. Source: ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 376.

**12911 Liquiritigenin 4'-O-β-D-apio-D-furanosyl(1→2)-β-D-glucopyranoside**

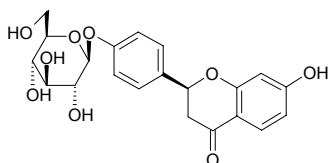
$C_{26}H_{30}O_{13}$ (550.52). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 660.

**12912 Liquiritigenin-7,4'-diglucoside**

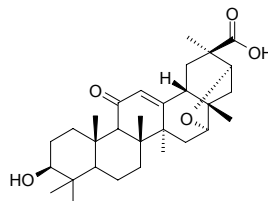
$C_{27}H_{32}O_{14}$ (580.55). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2, 660.

**12913 Liquiritin**

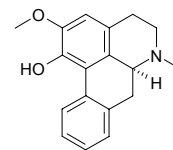
[551-15-5] $C_{21}H_{22}O_9$ (418.40). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content = 0.492%^[5508]), GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.220%^[5508]), HUANG GAN CAO *Glycyrrhiza kansuensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.915%^[5508]). Ref: 2, 660, 5508.

**12914 Licoiric acid**

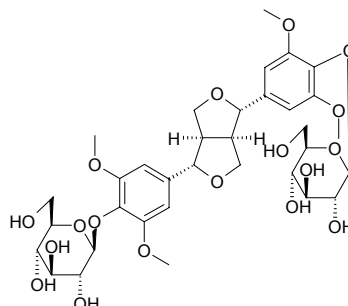
$C_{30}H_{44}O_5$ (484.68). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2, 660.

**12915 Lirinidine**

$C_{18}H_{19}NO_2$ (281.36). Source: HE YE *Nelumbo nucifera*. Ref: 660.

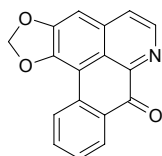
**12916 Liriodendrin**

(+)-Syringaresinol-di-*O*-β-*D*-glucoside [573-44-4] $C_{34}H_{46}O_{18}$ (742.73). Crystals (EtOH), mp 269–270°C, $[\alpha]_D^{18} = -18.5^\circ$ ($c = 0.2$, pyridine). Pharm: Calcium antagonist (frog, single heart cell); cytotoxic; Gonad stimulating principle; tonicity (mus, extends swimming time); inhibits fatigue and promotes interferon inducing formation; angiotensin I-converting enzyme inhibitor; antihepatotoxin; analgesic (mus, acetic acid-induced writhing model); antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 34.4\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.00098\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90\mu\text{g/mL}$, control Benzimidazole, $IC_{50} = 1.06\mu\text{g/mL}$)^[5009]; antileishmanial (*Leishmania donovani*, $IC_{50} = 11.6\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.102\mu\text{g/mL}$)^[5009]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.0022\mu\text{g/mL}$)^[5009]; cytotoxic (L6, $IC_{50} > 90\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.008\mu\text{g/mL}$)^[5009]; anti-inflammatory (*in vivo*, carrageenan-induced edema of the hind paw in rats, 5mg/kg, 90min, InRt = 40%); analgesic (mouse *in vivo*, acetic acid-induced writhing and hotplate method, 5mg/kg)^[5425]. Source: CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DU ZHONG *Eucommia ulmoides*, LIU CHUAN YU *Linaria vulgaris*, ROU CONG RONG *Cistanche deserticola*, ZONG KUI CAO SU *Phlomis brunneogaleata*. Ref: 2, 660, 1521, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 4237, 5009, 5425.

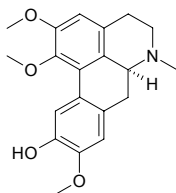


12917 Liriodenine

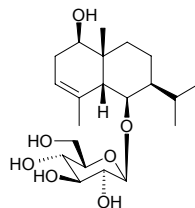
Oxoushinsunine; Spermatheridine [475-75-2] $C_{17}H_9NO_3$ (275.27). Green acicular crystals ($CHCl_3$), mp 275–277°C; Yellow solid, mp 280–281°C ($CHCl_3$); mp 289°C (dec). **Pharm:** Antifungal; cytotoxic (KB); platelet aggregation inhibitor (rat blood: 2–5 μ mol/L ADP-induced, $IC_{50} > 1000 \mu$ mol/L, control Acetylsalicylic acid, $IC_{50} > 1000 \mu$ mol/L; 2–5 μ g/mL collagen-induced, $IC_{50} > 1000 \mu$ mol/L, Acetylsalicylic acid, $IC_{50} = 420 \mu$ mol/L; 1–4 μ mol/L epinephrine-induced with threshold concentration of collagen (0.8–1.0 μ g/mL), $IC_{50} = 67 \mu$ mol/L, Acetylsalicylic acid, $IC_{50} = 53 \mu$ mol/L; 10–40 μ mol/L AA-induced with threshold concentration of collagen (0.8–1.0 μ g/mL), $IC_{50} = 44 \mu$ mol/L, Acetylsalicylic acid, $IC_{50} = 66 \mu$ mol/L; 1–5 μ mol/L U46619-induced with threshold concentration of collagen (0.8–1.0 μ g/mL), $IC_{50} > 100 \mu$ mol/L, Acetylsalicylic acid, $IC_{50} = 340 \mu$ mol/L)^[5381]; cytotoxic (inhibits growth of yeasts: values of RS321NYCp50(gal), $IC_{50} = 0.6 \mu$ g/mL; RS321NpRAD52(gal), $IC_{50} = 1.5 \mu$ g/mL; RS321NpRAD52(glu), $IC_{50} = 0.5 \mu$ g/mL; Did not show selective DNA-damaging activity in the yeast assay)^[5457]; Reduces isolation-induced aggression (mouse). **Source:** BAI LAN HUA *Michelia alba*, BAI YE GUA FU MU *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], BEI MEI E ZHANG QIU *Liriodendron tulipifera* (heartwood; the compound was isolated from the plant by M.A. Buchanan et al. in 1961)^[5505], CHEN XIANG *Aquilaria agallocha*, DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem), FAN LI ZHI *Annona squamosa* (root), GUAN GUANG MU *Tsoongiodendron odorum*, HE HUA YU LAN *Magnolia grandiflora*, HE YE *Nelumbo nucifera*, HUA JIAO LE *Zanthoxylum cuspidatum*, HUANG MIAN GUI *Michelia champaca*, LIAN ZI *Nelumbo nucifera*, NIU XIN FAN LI ZHI *Annona reticulata*, RI BEN HOU PO *Magnolia obovata*, RI BEN HOU PO *Magnolia obovata* (leaf), RU DI JIN NIU *Zanthoxylum nitidum*, TAI WAN GE NA XIANG *Goniotalamus amuyon* (fresh leaf: yield = 0.00027%fw)^[4686], YE HE HUA *Magnolia coco*, YING ZHAO *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*], YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem and leaf)^[3083], *Lettowianthus stellatus* (root cortex), occurs in many plants. **Ref:** 6, 658, 660, 2177, 1521, 3083, 3944, 4686, 5381, 5457, 5505.

**12918 Lirioferine**

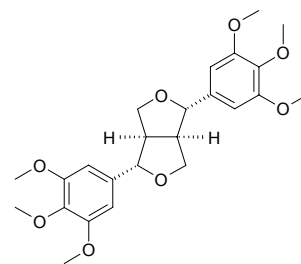
$C_{20}H_{23}NO_4$ (341.41). **Source:** YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. **Ref:** 660.

**12919 Liriopeoside A**

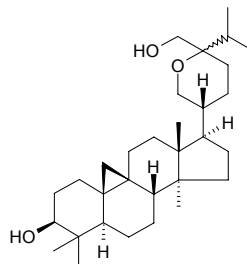
1 β ,6 β -Dihydroxy-*cis*-eudesm-3-ene-6-*O*- β -D-glucopyranoside $C_{21}H_{36}O_7$ (400.52). Colorless needles (MeOH), mp 169–171°C, $[\alpha]_D^{25} = -7.3^\circ$ ($c = 1.00$, MeOH). **Source:** DUAN TING SHAN MAI DONG *Liriope muscari* (tuber: yield = 0.000064%). **Ref:** 4772.

**12920 Lirioresinol B dimethyl ether**

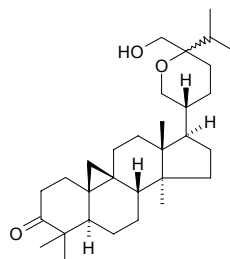
Yangambin $C_{24}H_{30}O_8$ (446.50). mp 122–123°C. **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*], ZHONG YA KU HAO *Artemisia absinthium*. **Ref:** 6, 543, 658.

**12921 Lithocarpdiol**

[54300-84-4] $C_{31}H_{52}O_3$ (472.76). mp 179–180°C. **Source:** DUO SUI SHI KE YE *Lithocarpus polystachyus*. **Ref:** 6.

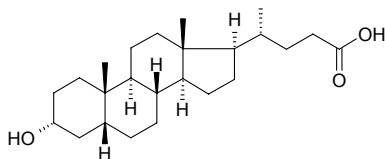
**12922 Lithocarpolone**

[54300-83-3] $C_{31}H_{50}O_3$ (470.74). mp 190–192°C. **Source:** DUO SUI SHI KE YE *Lithocarpus polystachyus*. **Ref:** 6.

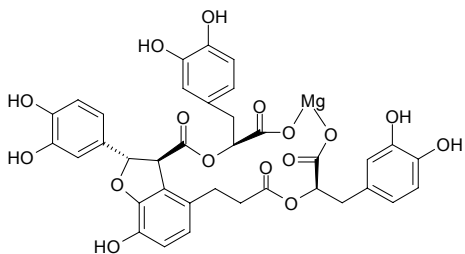


12923 Lithocholic acid

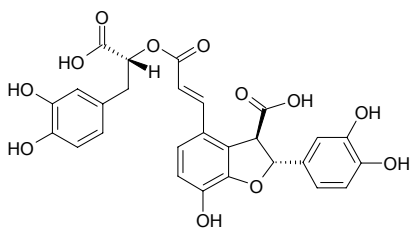
3 α -Hydroxy-5 β -cholan-24-oic acid [434-13-9] C₂₄H₄₀O₃ (376.58). Prisms (EtOH aq.), mp 186°C, [α]_D²⁰ = +33.7° (c = 1.5, EtOH). Source: NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 2, 1521.

**12924 Lithospermate B**

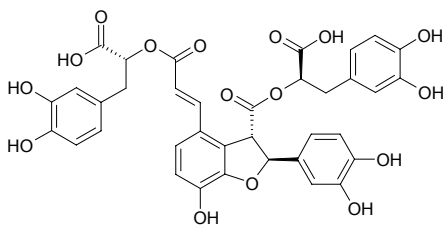
[122021-74-3] C₃₆H₃₀MgO₁₆ (742.94). [α]_D = +130.9° (c = 0.1, 50% aqueous MeOH). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 724.

**12925 Lithospermic acid**

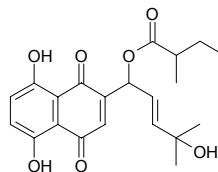
[28831-65-4] C₂₇H₂₂O₁₂ (538.47). Pharm: Antioxidant (*in vitro*, Cu²⁺ induced LDL peroxidation assay, IC₅₀ = 1 μ mol/L; control Probuco, IC₅₀ = 4.7 μ mol/L)^[4628]; contraceptive. Source: BAI GUO ZI CAO *Lithospermum officinale*, FU JI NI YA DI SUN *Lycopus virginicus*, LAN JI *Echium vulgare*, LU BIAN ZI CAO *Lithospermum ruderales*, OU DI SUN *Lycopus europaeus*, YAO YONG NIU SHE CAO *Anchusa officinalis*, ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.625%)^[4628]. Ref: 658, 4628.

**12926 Lithospermic acid B**

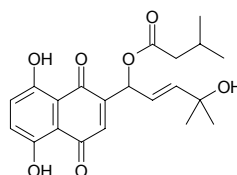
C₃₆H₃₀O₁₆ (718.63). Source: DAN SHEN *Salvia miltiorrhiza* (dried root: content = 2.87%)^[5508]. Ref: 660, 5508.

**12927 Lithospermidin A**

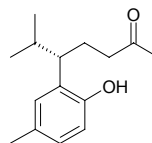
C₂₁H₂₄O₇ (388.42). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2.

**12928 Lithospermidin B**

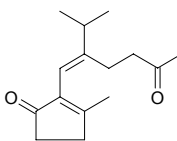
C₂₁H₂₄O₇ (388.42). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2.

**12929 Litseachromolaevane A**

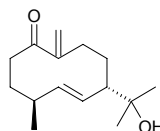
C₁₅H₂₂O₂ (234.34). Colorless gum, [α]_D²⁰ = +6.7° (c = 0.23, CHCl₃). Pharm: Anti-HIV-1 inactive (*in vitro*, HOG.R5). Source: DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00012%dw). Ref: 4688.

**12930 Litseachromolaevane B**

C₁₅H₂₂O₂ (234.34). Colorless gum, [α]_D²⁰ = +0° (c = 0.05, CHCl₃). Pharm: Anti-HIV-1 (HIV-1 replication inhibitor *in vitro*, HOG.R5, IC₅₀ = 28 μ g/mL (120 μ mol/L), cytotoxic, 20 μ g/mL, inactive). Source: DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00002%dw). Ref: 4688.

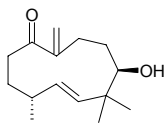
**12931 Litseagermacrane**

C₁₅H₂₄O₂ (236.36). Colorless gum, [α]_D²⁰ = +11.1° (c = 0.14, CHCl₃). Pharm: Anti-HIV-1 (HIV-1 replication inhibitor *in vitro*, HOG.R5, IC₅₀ = 6.5 μ g/mL (27.5 μ mol/L), cytotoxic, CC₅₀ = 15.9 μ g/mL (63.4 μ mol/L)). Source: DIE DA LAO *Litsea verticillata* (leaf and twig: yield = 0.00008%dw). Ref: 4688.

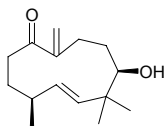


12932 Litseahumulane A

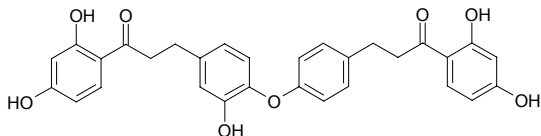
$C_{15}H_{24}O_2$ (236.36). Colorless gum, $[\alpha]_D^{20} = -34.1^\circ$ ($c = 0.09$, $CHCl_3$). **Pharm:** Anti-HIV-1 inactive (*in vitro*, HOG.R5). **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig; yield = 0.00003%dw). **Ref:** 4688.

**12933 Litseahumulane B**

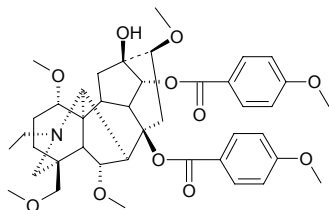
$C_{15}H_{24}O_2$ (236.36). Colorless gum, $[\alpha]_D^{20} = -23.8^\circ$ ($c = 0.02$, $CHCl_3$). **Pharm:** Anti-HIV-1 inactive (*in vitro*, HOG.R5). **Source:** DIE DA LAO *Litsea verticillata* (leaf and twig; yield = 0.00002%dw). **Ref:** 4688.

**12934 Littorachalcone**

2',4',3'',2''',4''-Pentahydroxy-4-O-4''-tetrahydrobichalcone $C_{30}H_{26}O_8$ (514.54). Yellow powder (MeOH), mp 178–180°C. **Pharm:** Neurite outgrowth enhancer (PC12D cells, NGF-mediated neurite outgrowth, to enhance the ability of NGF, may be useful in the treatment of neurological disorders, such as Parkinson's disease (PD), Alzheimer's disease (AD), Huntington's disease (HD), amyotrophic lateral sclerosis (ALS), and hmn immunodeficiency virus associated dementia (HAD)). **Source:** HAI BIAN MA BIAN CAO *Verbena littoralis* (aerial parts). **Ref:** 4361.

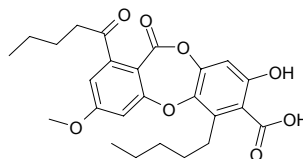
**12935 Liwaconitine**

$C_{41}H_{53}NO_{11}$ (735.88). **Source:** LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*]. **Ref:** 660.

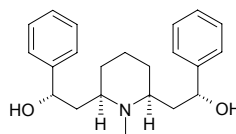
**12936 Lobaric acid**

$C_{25}H_{28}O_8$ (456.50). **Pharm:** 5-LOX inhibitor (porcine leucocytes, *in vitro*, $IC_{50} = 7.3\mu\text{mol/L}$, control Zileuton, $IC_{50} = 0.4\mu\text{mol/L}$, LOX has been implicated in carcinogenesis in various types); 12-LOX inhibitor (hmn platelet, *in vitro*); cytotoxic (acute promyelocytic leukemia (HL-60), $EC_{50} = (52.1\pm 9.9)\mu\text{g/mL}$, Zileuton, $EC_{50} = (38.8\pm 12.3)\mu\text{g/mL}$; colorectal adenocarcinoma (WiDr), $EC_{50} = (63.9\pm 2.2)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; erythro-leukemia (K562), $EC_{50} = (19.7\pm 1.2)\mu\text{g/mL}$, Zileuton, $EC_{50} = (38.5\pm 5.4)\mu\text{g/mL}$; gastric adenocarcinoma (AGS), $EC_{50} = (38.5\pm 2.7)\mu\text{g/mL}$, Zileuton, $EC_{50} = (70.5\pm 3.1)\mu\text{g/mL}$; mammary carcinoma (T47D), $EC_{50} = (21.4\pm 9.8)\mu\text{g/mL}$,

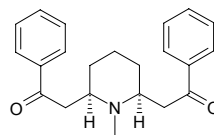
Zileuton, $EC_{50} = (23.9\pm 4.1)\mu\text{g/mL}$; ovarian adenocarcinoma (OVCAR-3), $EC_{50} = (36.7\pm 10.5)\mu\text{g/mL}$, Zileuton, $EC_{50} = (53.1\pm 7.7)\mu\text{g/mL}$; pancreas cancer (Capan1), $EC_{50} = (15.2\pm 3.5)\mu\text{g/mL}$, Zileuton, $EC_{50} = (12.9\pm 11.7)\mu\text{g/mL}$; pancreas cancer (Capan2), $EC_{50} = (34.4\pm 2.5)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; pancreas cancer (PANC1), $EC_{50} = (35.9\pm 7.7)\mu\text{g/mL}$, Zileuton, $EC_{50} = (46.6\pm 5.4)\mu\text{g/mL}$; prostatic cancer PC3, $EC_{50} = (28.0\pm 5.6)\mu\text{g/mL}$, Zileuton, $EC_{50} = (49.9\pm 9.0)\mu\text{g/mL}$; small cell lung cancer (NCI-H1417), $EC_{50} = (27.5\pm 3.8)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; T-cell leukemia (Jurkat-T), $EC_{50} = (35.5\pm 9.4)\mu\text{g/mL}$, Zileuton, $EC_{50} = (78.3\pm 5.0)\mu\text{g/mL}$. **Source:** Lichen *Stereocaulon alpinum*. **Ref:** 4082.

**12937 Lobelanidine**

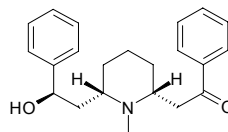
[552-72-7] $C_{22}H_{29}NO_2$ (339.48). **Pharm:** Toxin. **Source:** BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*], BEI MEI ZHOU SHAN GENG CAI *Lobelia inflata*, HA SHI SHAN GENG CAI *Lobelia hassleri*, TAI JING TIAN *Sedum acre*, TONG BAN CAO *Isotoma longiflora* [Syn. *Laurentia longiflora*]. **Ref:** 2, 658.

**12938 Lobelanine**

[579-21-5] $C_{22}H_{25}NO_2$ (335.45). **Source:** BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*]. **Ref:** 2, 1521.

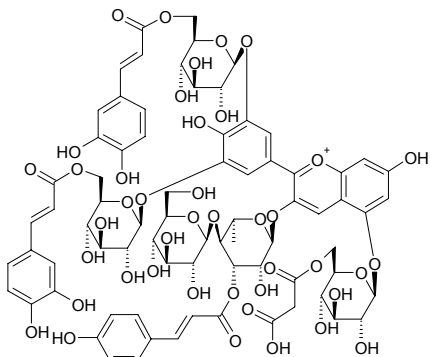
**12939 Lobeline**

Inflatine; α -Lobeline [90-69-7] $C_{22}H_{27}NO_2$ (337.47). Acicular crystals, mp 130–131°C, $[\alpha]_D^{15} = -42.85^\circ$ (ethanol), slightly soluble in water, petroleum ether, soluble in hot ethanol, benzene, ether, chloroform.^[5507] **Pharm:** Central stimulant (due to reflectivity, used in treatment of newborn asphyxia, toxicosis from opium, barbital, carbon monoxide, and respiratory failure induced by pneumonia and diphtheria). **Source:** BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*], BEI MEI ZHOU SHAN GENG CAI *Lobelia inflata* (in 1921, isolated from the plant for the first time^[5507]), FENG LING CAO *Campanula medium*, HA SHI SHAN GENG CAI *Lobelia hassleri*, YAN CAO HUA SHAN GENG CAI *Lobelia nicotianaefolia*. **Ref:** 2, 4, 658, 5501, 5507.

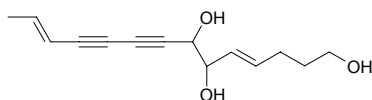


12940 Lobelinin A

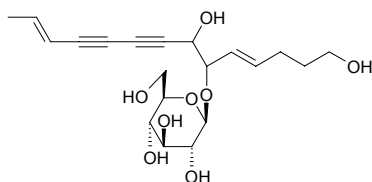
[127201-68-7] $C_{75}H_{81}O_{42}^+$ (1654.46). Source: BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*]. Ref: 2, 1521.

**12941 Lobetyol**

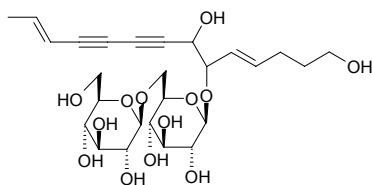
$C_{14}H_{18}O_3$ (234.30). Source: TONG CHUI YU DAI CAO *Pratia nummularia*. Ref: 3362.

**12942 Lobetyolin**

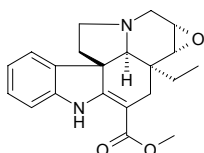
$C_{20}H_{28}O_8$ (396.44). Source: TONG CHUI YU DAI CAO *Pratia nummularia*. Ref: 3362.

**12943 Lobetyolinin**

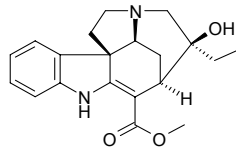
$C_{26}H_{38}O_{13}$ (558.58). Source: TONG CHUI YU DAI CAO *Pratia nummularia*. Ref: 3362.

**12944 Lochnericine**

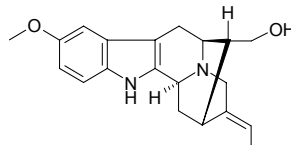
[72058-36-7] $C_{21}H_{24}N_2O_3$ (352.44). mp 188~191°C, $[\alpha]_D^{25} = +473^\circ$ ($c = 0.37$, EtOH). Pharm: Cytotoxic (KB, strong). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2, 1521.

**12945 Lochneridine**

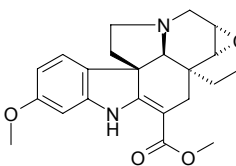
[5980-01-8] $C_{20}H_{24}N_2O_3$ (340.43). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2, 1521.

**12946 Lochnerine**

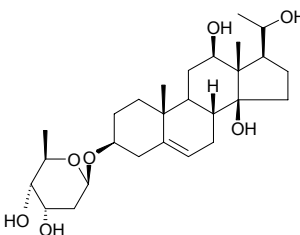
[482-68-8] $C_{20}H_{24}N_2O_2$ (324.43). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2, 1521.

**12947 Lochnerinine**

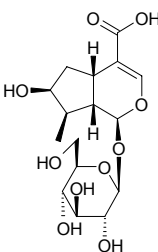
[22255-04-5] $C_{22}H_{26}N_2O_4$ (382.46). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2, 1521.

**12948 Locin**

[102071-99-8] $C_{27}H_{44}O_7$ (480.65). mp 110~115°C, $[\alpha]_D = +20^\circ$. Source: QING SHE TENG *Periploca calophylla*. Ref: 2498.

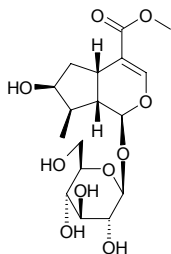
**12949 Loganic acid**

$C_{16}H_{24}O_{10}$ (376.36). $[\alpha]_D^{21} = -72.7^\circ$ ($c = 0.55$, MeOH). Source: CU JING QIN JIAO *Gentiana crassicaulis* (root: mean content = 1.53%)^[5534], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.015%dw)^[3014], JIN YIN HUA *Lonicera japonica*, LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), LONG DAN *Gentiana scabra*, RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 2, 638, 3014, 3533, 4527, 5534.

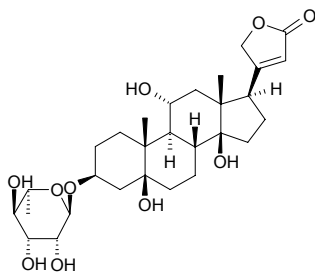


12950 loganin

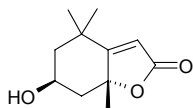
Loganoside [18524-94-2] $C_{17}H_{26}O_{10}$ (390.39). **Pharm:** Laxative. **Source:** BAI JIANG *Patrinia villosa*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHUAN XU DUAN *Dipsacus asperoides*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0157%dw)^[4723], JIN YIN HUA *Lonicera japonica*, LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), LV SONG GUO *Strychnos ignatii*, MA QIAN ZI *Strychnos nux-vomica*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: mean content of 16 origins = 0.66%^[5508]), SHUI CAI *Menyanthes trifoliata* (the compound was isolated from the plant by Battersby et al. in 1968)^[5505], WU SHI REN DONG *Lonicera quinquelocularis* (root), *Hydrangea* sp. **Ref:** 2, 638, 658, 660, 3926, 4527, 4723, 5505, 5508.

**12951 Lokundjosiide**

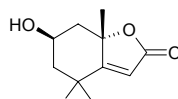
[6869-51-8] $C_{29}H_{44}O_{10}$ (552.67). **Pharm:** Toxin (vertebrate). **Source:** YANG JIAO AO ZI *Strophanthus divaricatus*, *Strophanthus* sp. **Ref:** 658, 1521.

**12952 (6S,7αR)-Loliolide**

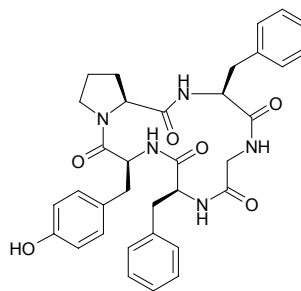
Digiprolactone $C_{11}H_{16}O_3$ (196.25). mp 149°C. **Pharm:** Antineoplastic (inhibits EBV-EA induction strongly). **Source:** BAI MAO XIA KU CAO *Ajuga decumbens*, DA CHE QIAN *Plantago major* (leaf), KU LIAN PI *Melia azedarach*, MAO DI HUANG *Digitalis purpurea*, MAO HUA MAO DI HUANG *Digitalis lanata*, MI HUA MEI DENG MU *Maytenus confertiflorus*, QIAN QU CAI *Lythrum salicaria*, QUN DAI CAI *Undaria pinnatifida* (dried thallus: yield = 0.0014%^[4602]), SHUI CAI *Menyanthes trifoliata*, XIANG RI KUI HUA *Helianthus annuus*, YA ZHI CAO *Commelina communis*, YAO YONG QIU GUO ZI JIN *Fumaria officinalis*, YIN XING CAO *Siphonostegia chinensis*. **Ref:** 6, 660, 693, 1521, 4602.

**12953 Loliolide isomer**

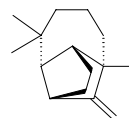
Anticancer Monoterpene PMV70P691-127 $C_{11}H_{16}O_3$ (196.25). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells). **Source:** HUANG HUA REN *Sida acuta*. **Ref:** 5038.

**12954 Longicalycinin A**

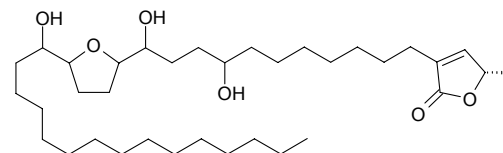
$C_{34}H_{37}N_5O_6$ (611.70). Pale-yellow powder, $[\alpha]_D^{25} = -12^\circ$ ($c = 0.01$, MeCN). **Pharm:** Cytotoxic (hmn hepatocellular carcinoma HepG2 cancer cell line, $IC_{50} = 13.52\mu\text{g/mL}$). **Source:** CHANG E QU MAI *Dianthus superbus* var. *longicalycinus*. **Ref:** 4450.

**12955 Longifolene**

[1S-(1α,3β,4α,8β)]-Decahydro-9-methylene-4,8,8-trimethyl-1,4-methanoazulene [475-20-7] $C_{15}H_{24}$ (204.36). **Source:** CHANG YE SONG *Pinus palustris*, CHAI HU *Bupleurum chinense*, WU WEI ZI *Schisandra chinensis*, *Pinus* sp. **Ref:** 2.

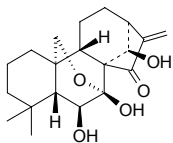
**12956 Longifolicin**

$C_{35}H_{64}O_6$ (580.9). Colorless oil, $[\alpha]_D^{25} = +8.3^\circ$ ($c = 0.12$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, HepG2, $IC_{50} = 0.000404\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.0049\mu\text{g/mL}$; control Adriamycin, HepG2, $IC_{50} = 0.241\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.45\mu\text{g/mL}$). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

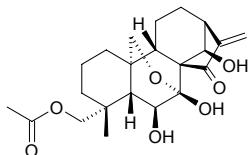


12957 Longikaurin A

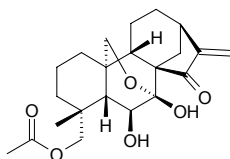
[75207-67-9] C₂₀H₂₈O₅ (348.44). mp 223~225°C, [α]_D²⁵ = -91.1° (c = 0.21, C₅H₅N). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 12.5 μg/mL; *Bacillus coli*, MIC > 200 μg/mL); cytotoxic (mammary cancer cells in rat, *in vitro*, 1 μg/mL, InRt = 74%). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 5, 658, 4067.

**12958 Longikaurin B**

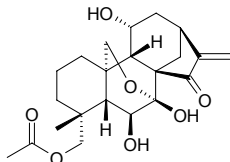
[75207-66-8] C₂₂H₃₀O₇ (406.48). mp 238~239.5°C, [α]_D²⁵ = -115.9° (c = 0.12, C₅H₅N). **Pharm:** Cytotoxic (K562, IC₅₀ = 0.30 μg/mL, control Mitoxantrone, IC₅₀ = 0.29 μg/mL; HL-60, IC₅₀ = 0.44 μg/mL, Mitoxantrone, IC₅₀ = 0.29 μg/mL; HCT, IC₅₀ = 8.61 μg/mL, Mitoxantrone, IC₅₀ = 1.54 μg/mL; MKN28, IC₅₀ = 0.46 μg/mL, Mitoxantrone, IC₅₀ = 0.02 μg/mL)^[5182]; cytotoxic (rat mammary cancer cells *in vitro*); antibacterial (*Staphylococcus aureus*, MIC = 25 μg/mL; *Bacillus coli*, MIC ≥ 200 μg/mL). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*, HAN SHENG XIANG CHA CAI *Isodon xerophilus* (leaf). **Ref:** 5, 658, 4067, 5182.

**12959 Longikaurin C**

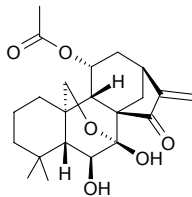
C₂₂H₃₀O₆ (390.48). mp 248~250°C, [α]_D²⁵ = -137.5° (c = 0.12, C₅H₅N). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12960 Longikaurin D**

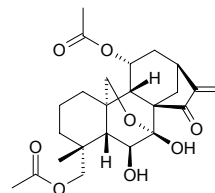
C₂₂H₃₀O₇ (406.48). mp 225~227°C, [α]_D¹⁹ = -150.0°. **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12961 Longikaurin E**

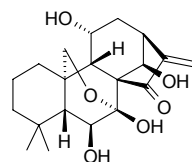
C₂₂H₃₀O₆ (390.48). mp 251~253°C, [α]_D¹⁹ = -76° (CHCl₃). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12962 Longikaurin F**

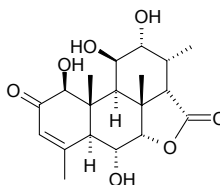
C₂₄H₃₂O₈ (448.52). mp 249~251°C, [α]_D²⁵ = -120.4° (c = 0.11, C₅H₅N). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12963 Longikaurin G**

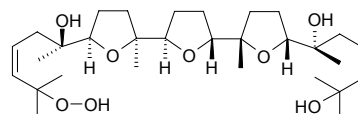
C₂₀H₂₈O₆ (364.44). mp 281~282°C, [α]_D²² = -82.0° (c = 0.85, MeOH). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12964 Longilactone**

C₁₉H₂₆O₇ (366.41). **Pharm:** Cytotoxic (KB, IC₅₀ = 3.4 μg/mL; P₃₈₈, IC₅₀ = 1.3 μg/mL; A549, remarkable activity)^[4556]; plant growth inhibitor (Cucumber seedling, root growth, IC₅₀ = (66±10) μmol/L; shoot growth, IC₅₀ = (95.0±1.0) μmol/L; Rice seedling, root growth, IC₅₀ > 200 μmol/L; shoot growth, IC₅₀ > 200 μmol/L)^[5215]. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. **Ref:** 4556, 5215.

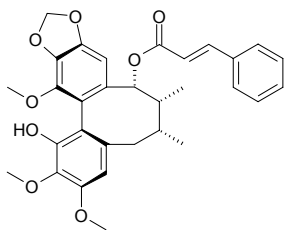
**12965 Longilene peroxide**

C₃₀H₅₂O₈ (540.74). **Source:** CHANG YE KUAN MU *Eurycoma longifolia*. **Ref:** 1521, 4556.

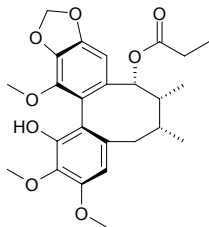


12966 Longipedunin A

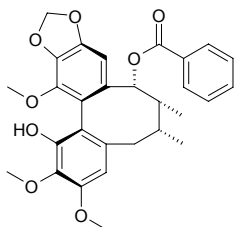
$C_{31}H_{32}O_8$ (532.60). Colorless prisms (MeOH); mp 176–178°C, $[\alpha]_D = 52.2^\circ$ ($c = 0.2$, MeOH). **Pharm:** HIV-1 protease inhibitor (100mg/mL, InRt = (77.8±3.3)%), $IC_{50} = 50\mu\text{g/mL}$; control Acetyl pepstatin, InRt = 100%, $IC_{50} = 0.15\mu\text{g/mL}$. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*] (stem and root: yield = 0.00023%dw). **Ref:** 918.

**12967 Longipedunin B**

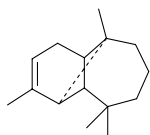
$C_{25}H_{30}O_8$ (458.51). Amorphous powder, $[\alpha]_D = 8.3^\circ$ ($c = 0.1$, MeOH). **Pharm:** HIV-1 protease inhibitor (100mg/mL, InRt = (40.1±12.6)%), $IC_{50} > 100\mu\text{g/mL}$; control Acetyl pepstatin, InRt = 100%, $IC_{50} = 0.15\mu\text{g/mL}$. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*] (stem and root: yield = 0.00005%dw). **Ref:** 918.

**12968 Longipedunin C**

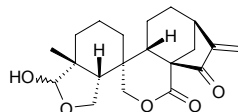
$C_{29}H_{30}O_8$ (506.56). Amorphous powder, $[\alpha]_D = 25.4^\circ$ ($c = 0.2$, MeOH). **Pharm:** HIV-1 protease inhibitor (100mg/mL, InRt = (47.3±1.4)%), $IC_{50} > 100\mu\text{g/mL}$; control Acetyl pepstatin, InRt = 100%, $IC_{50} = 0.15\mu\text{g/mL}$. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*] (stem and root: yield = 0.00008%dw). **Ref:** 918.

**12969 α -Longipinene**

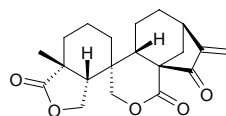
[5989-08-2] $C_{15}H_{24}$ (204.36). **Source:** CHAI HU *Bupleurum chinense*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 1521.

**12970 Longirabdacetal**

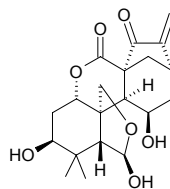
$C_{20}H_{26}O_5$ (346.43). mp 202–208°C, $[\alpha]_D^{22.5} = -160.6^\circ$ ($c = 1.23$, MeOH). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12971 Longirabdolactone**

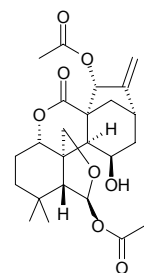
$C_{20}H_{24}O_5$ (344.41). mp 244–246°C, $[\alpha]_D^{22} = -121.6^\circ$ ($c = 0.51$, MeOH). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12972 Longirabdolide C**

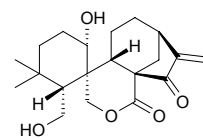
$C_{20}H_{26}O_7$ (378.43). mp 204–206°C, $[\alpha]_D^{22} = -120.6^\circ$ ($c = 0.80$, MeOH). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

**12973 Longirabdolide D**

$C_{24}H_{32}O_8$ (448.52). mp 257–260°C, $[\alpha]_D^{22} = -156.3^\circ$ ($c = 0.45$, $CHCl_3$). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

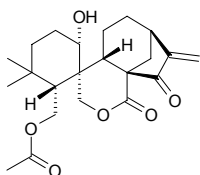
**12974 Longirabdolide E**

$C_{20}H_{28}O_5$ (348.44). mp 258–260°C, $[\alpha]_D^{21} = +24.8^\circ$ ($c = 1.02$, C_5H_5N). **Source:** CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. **Ref:** 4067.

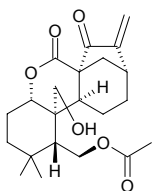


12975 Longirabdolide F

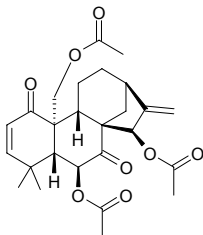
$C_{22}H_{30}O_6$ (390.48). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**12976 Longirabdolide G**

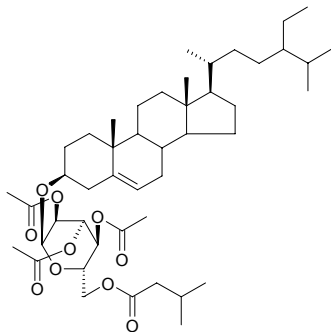
$C_{22}H_{30}O_6$ (390.48). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**12977 Longirabdosin**

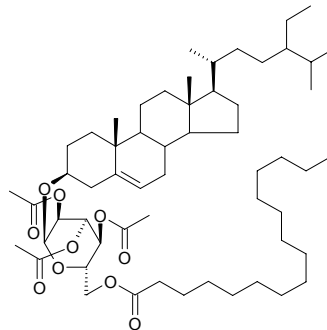
$C_{26}H_{32}O_8$ (472.54). $[\alpha]_D = -150^\circ$ (MeOH). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**12978 Longiside A**

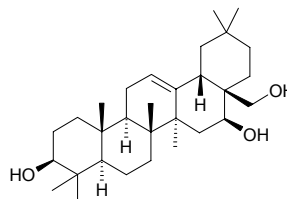
$C_{46}H_{74}O_{10}$ (787.10). $[\alpha]_D = +79.90^\circ$ ($c = 0.082$, chloroform). Source: OU BO HE *Mentha longifolia*. Ref: 2012.

**12979 Longiside B**

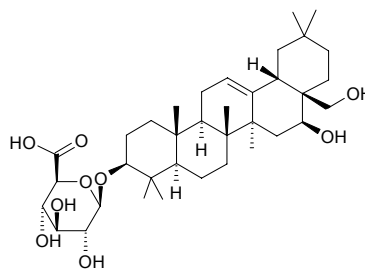
$C_{57}H_{96}O_{10}$ (941.39). $[\alpha]_D = +61.9^\circ$ ($c = 0.069$, chloroform). Source: OU BO HE *Mentha longifolia*. Ref: 2012.

**12980 Longispinogenin**

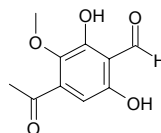
[465-94-1] $C_{30}H_{50}O_3$ (458.73). Crystals (Me₂CO), mp 247~249°C, $[\alpha]_D^{25} = +51^\circ$ (CHCl₃). Source: CHAI HU *Bupleurum chinense*, JIN ZHAN JU *Calendula officinalis*. Ref: 2, 1521.

**12981 Longispinogenin 3-O-β-D-glucuronopyranoside**

$C_{36}H_{58}O_9$ (634.86). Amorphous powder, mp 198~202°C, $[\alpha]_D^{20} = 16^\circ$ ($c = 0.1$, MeOH). Source: CHI GENG TENG *Gymnema sylvestris*. Ref: 766.

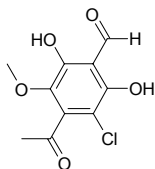
**12982 Longissiminone A**

$C_{10}H_{10}O_5$ (210.19). White amorphous solid, mp 132°C. Pharm: Anti-inflammatory (modified assay of Tan and Berridge, 400μg/mL, InRt = 72.13%, IC₅₀ = (165.1±0.8)μg/mL; control Aspirin, InRt = 70.45%, IC₅₀ = (50.30±4.42)μg/mL); cell viability (hmn isolated neutrophils, 12.5μg/mL, cell viability = 89.68%, 50μg/mL, cell viability = 90.05%, 100μg/mL, cell viability = 52.91%). Source: SONG LUO *Usnea longissima*. Ref: 5316.

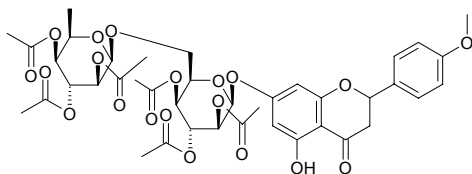


12983 Longissiminone B

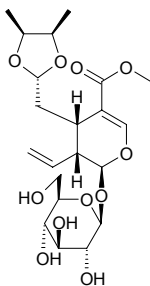
$C_{10}H_9ClO_5$ (244.63). White amorphous material, mp 113°C. **Pharm:** Anti-inflammatory (modified assay of Tan and Berridge, 400 μ g/mL, InRt = 34.34%, control Aspirin, InRt = 70.45%); cell viability (hmn isolated neutrophils, 12.5 μ g/mL, cell viability = 78.81%, 50 μ g/mL, cell viability = 100%, 200 μ g/mL, cell viability = 68.85%). **Source:** SONG LUO *Usnea longissima*. **Ref:** 5316.

**12984 Longitin**

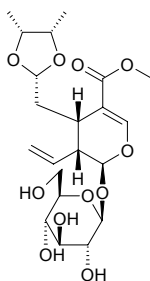
$C_{40}H_{46}O_{20}$ (846.80). $[\alpha]_D^{20} = +81^\circ$ ($c = 0.071$, chloroform). **Source:** OU BO HE *Mentha longifolia*. **Ref:** 2012.

**12985 Loniceracetalide A**

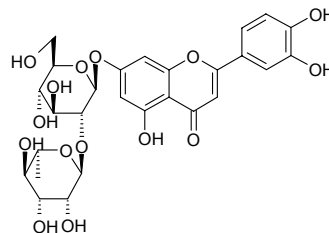
$C_{21}H_{32}O_{11}$ (460.48). Amorphous powder, $[\alpha]_D^{20} = -106^\circ$ ($c = 0.1$, MeOH). **Source:** JIN YIN HUA *Lonicera japonica*. **Ref:** 747.

**12986 Loniceracetalide B**

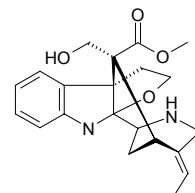
$C_{21}H_{32}O_{11}$ (460.48). Amorphous powder, $[\alpha]_D^{20} = -115^\circ$ ($c = 0.3$, MeOH). **Source:** JIN YIN HUA *Lonicera japonica*. **Ref:** 747.

**12987 Lonicerin**

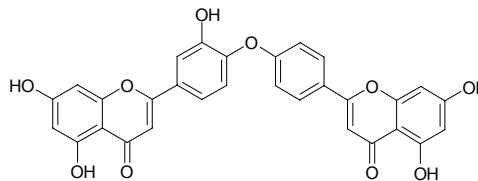
Luteolin-7-*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside [25694-72-8] $C_{27}H_{30}O_{15}$ (594.53). Crystals (MeOH), mp 249~251°C. **Pharm:** Xanthinioxidase inhibitor (50 μ g/mL, InRt = 20.1%); aldose reductase inhibitor (rat eye lens, 10 μ mol/L InRt = 91.5%, 1 μ mol/L InRt = 55.6%); anti-inflammatory (activity matches with aspirin). **Source:** JIN YIN HUA *Lonicera japonica*, ZHAN LONG JIAN *Veronicastrum sibiricum*, ZHI SHI *Citrus aurantium*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], REN DONG TENG *Lonicera japonica*, SHUI MU XUE LIAN HUA *Saussurea medusa*, XIANG MAO *Cymbopogon citratus*. **Ref:** 2, 660, 1632, 1631, 1671.

**12988 Lonicerine**

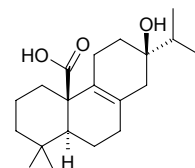
$C_{21}H_{26}N_2O_4$ (370.45). **Source:** HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 3830.

**12989 Loniflavone**

5,5',7,7',3'-Pentahydroxy 4',4'''-biflavonyl ether $C_{30}H_{18}O_{10}$ (538.47). Yellowish powder, mp 212~214°C. **Source:** JIN YIN HUA *Lonicera japonica* (leaf). **Ref:** 5335.

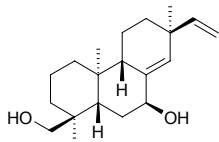
**12990 Lophanic acid**

$C_{20}H_{32}O_3$ (320.48). mp 163.0~165.0°C, $[\alpha]_D^{22} = +260.26^\circ$ ($c = 0.54$, MeOH). **Source:** XIAN WEN XIANG CHA CAI *Isodon lophanthoides*. **Ref:** 4067.

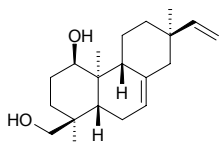


12991 Lophanthin A

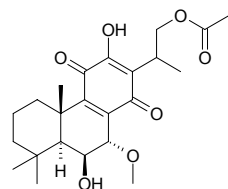
$C_{20}H_{32}O_2$ (304.48). mp 79~81°C, $[\alpha]_D = -4.1^\circ$ ($c = 0.98$, C_5H_5N). Source: XIA JI XIAN WEN XIANG CHA CAI *Isodon lophanthoides* var. *gerardiana*. Ref: 4067.

**12992 Lophanthin B**

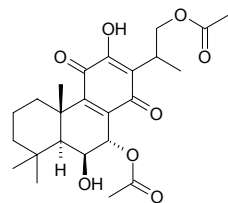
$C_{20}H_{32}O_2$ (304.48). mp 174~176°C, $[\alpha]_D = -37.5^\circ$ ($c = 0.8$, C_5H_5N). Source: XIA JI XIAN WEN XIANG CHA CAI *Isodon lophanthoides* var. *gerardiana*. Ref: 4067.

**12993 Lophanthoidin A**

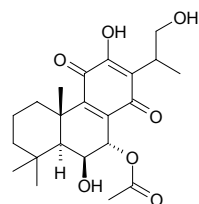
$C_{23}H_{32}O_7$ (420.51). mp 198~202°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 660, 4067.

**12994 Lophanthoidin B**

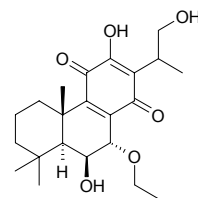
$C_{24}H_{32}O_8$ (448.52). mp 138~139°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 660, 4067.

**12995 Lophanthoidin C**

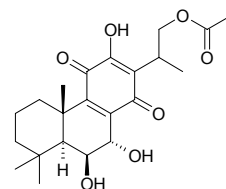
$C_{22}H_{30}O_7$ (406.48). mp 167~169.5°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 660, 4067.

**12996 Lophanthoidin D**

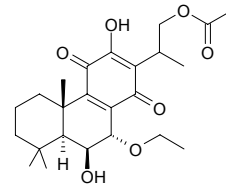
$C_{22}H_{32}O_6$ (392.50). mp 205~210°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 660, 4067.

**12997 Lophanthoidin E**

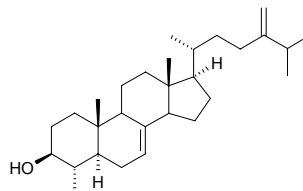
$C_{22}H_{30}O_7$ (406.48). mp 152.5~154°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 660, 4067.

**12998 Lophanthoidin F**

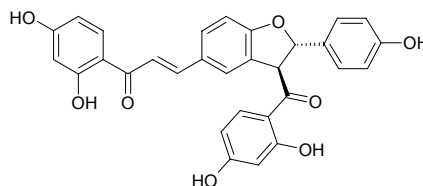
6 β -Hydroxy-7- α -ethoxy-16-acetoxy royleanone $C_{24}H_{34}O_7$ (434.53). Yellow crystals, mp 184~185°C. Source: XI HUA XIAN WEN XIANG CHA CAI *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*]. Ref: 646, 660, 4067.

**12999 24-Lophenolmethylene**

$C_{29}H_{48}O$ (412.71). Source: DUO ZU JUE *Polypodium vulgare*. Ref: 660.

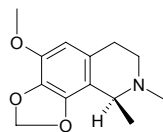
**13000 Lophirone C**

$C_{30}H_{22}O_8$ (510.51). Yellow crystals, mp 190~191°C (Me_2CO), mp 191~193°C, $[\alpha]_D^{25} = -16.4^\circ$ ($c = 0.5$, Me_2CO). Source: *Ochna afzelii* (stem cortex). Ref: 5153.

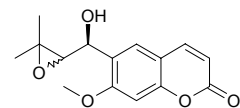


13001 Lophophorine

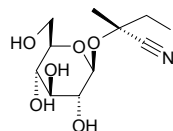
[17627-78-0] C₁₃H₁₇NO₃ (235.29). Oil, bp 140~145°C/0.05mmHg, [α]_D²⁵ = -47.3° (CHCl₃). **Pharm:** Eclamptogenic; respiratory stimulant; LD₅₀ (rbt, iv) = 15~20mg/kg. **Source:** AN LU LONG SHE LAN *Lophophora williamsii*. **Ref:** 658.

**13002 Lophoptrol**

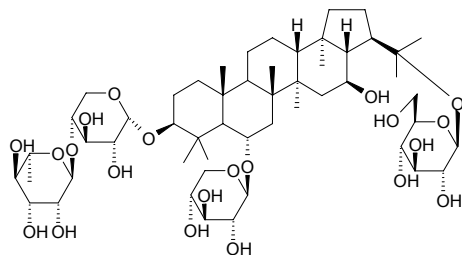
C₁₅H₁₆O₅ (276.29). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (17.9±2.1)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC₅₀ = 205mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA). **Source:** PU TAO YOU DA HONG JU ZA JIAO ZHONG *Citrus paradisi* x *Citrus tangerina*. **Ref:** 5048.

**13003 Lotaustralin**

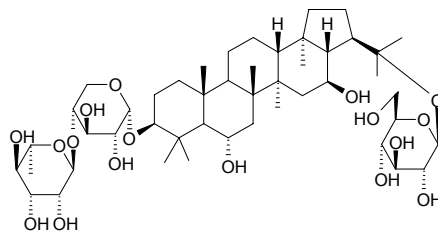
[534-67-8] C₁₁H₁₉NO₆ (261.28). mp 121°C. **Pharm:** Similar action with linamarin. **Source:** AO ZHOU BAI MAI GEN *Lotus australis*, DAN LI XIAO MAI *Triticum monococcum*, SAN XIAO CAO *Trifolium repens*, XIA YE HONG JING TIAN *Rhodiola kirilowii*, YA MA *Linum usitatissimum*, *Passiflora* sp., *Triticum* sp. **Ref:** 516, 658.

**13004 Lotoideside A**

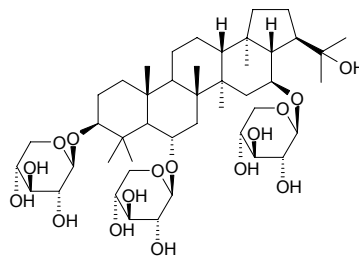
3-*O*-β-*D*-Xylopyranosyl (1→2)-α-*L*-rhamnopyranosyl-6α-*O*-β-*D*-xylopyranosyl-22-*O*-β-*D*-glucopyranosyl-16β-hydroxy hopane C₅₂H₈₈O₂₁ (1049.27). White amorphous solid, [α]_D^{27.6} = -7.5° (c = 3.9, MeOH). **Source:** XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). **Ref:** 5258.

**13005 Lotoideside B**

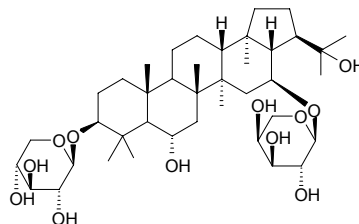
3-*O*-β-*D*-Xylopyranosyl (1→2)-α-*L*-rhamnopyranosyl-22β-*O*-β-*D*-glucopyranosyl-6α,16β-dihydroxyhopane C₄₇H₈₀O₁₇ (917.15). White amorphous solid, [α]_D^{27.6} = -10.4° (c = 1.18, MeOH). **Source:** XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). **Ref:** 5258.

**13006 Lotoideside C**

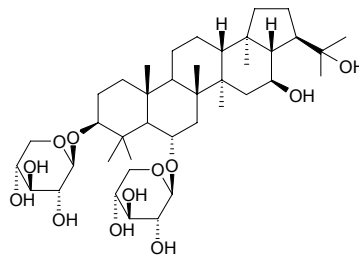
3-*O*-β-*D*-Xylopyranosyl-6α-*O*-β-*D*-xylopyranosyl-16β-*O*-β-*D*-xylopyranosyl-22β-hydroxyhopane C₄₅H₇₆O₁₆ (873.10). White crystalline solid, mp 240°C, [α]_D^{27.6} = +6.4° (c = 1.00, pyridine). **Source:** XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). **Ref:** 5258.

**13007 Lotoideside D**

3-*O*-β-*D*-Xylopyranosyl-16β-*O*-α-*L*-arabinopyranosyl-6α,22β-dihydroxyhopane C₄₀H₆₈O₁₂ (740.98). White crystalline solid, mp 222~223°C, [α]_D^{27.6} = +15.5° (c = 1.42, MeOH). **Source:** XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). **Ref:** 5258.

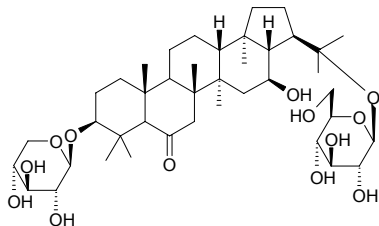
**13008 Lotoideside E**

3-*O*-β-*D*-Xylopyranosyl-6α-*O*-β-*D*-xylopyranosyl-16β,22β-dihydroxyhopane C₄₀H₆₈O₁₂ (740.98). White crystalline solid, mp 225~226°C, [α]_D^{27.6} = +17.5° (c = 0.73, MeOH). **Source:** XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). **Ref:** 5258.

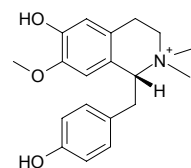


13009 Lotoideside F

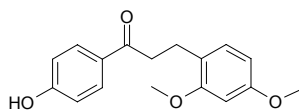
3-*O*- β -*D*-Xylopyranosyl-22 β -*O*- β -*D*-glucopyranosyl-16 β -hydroxyhopan-6-one C₄₁H₆₈O₁₃ (768.99). White crystalline solid, mp 205~206°C, $[\alpha]_D^{27.6} = -22.3^\circ$ ($c = 1.19$, pyridine). Source: XING SU CAO *Glinus lotoides* [Syn. *Mollugo lotoides*] (whole herb). Ref: 5258.

**13010 Lotusine**

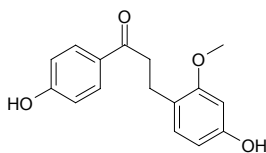
[6871-67-6] C₁₉H₂₄NO₃ (314.41). Source: LIAN ZI XIN *Nelumbo nucifera*. Ref: 6.

**13011 Loureirin A**

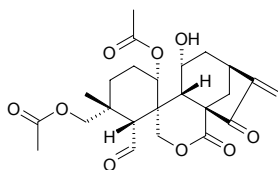
[119425-89-7] C₁₇H₁₈O₄ (286.33). Yellow rhombus crystals (chloroform-methanol), mp 124°C, $[\alpha]_D^{21} = 0^\circ$ ($c = 0.082$, ethanol). Pharm: Antifungal. Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 904, 1046.

**13012 Loureirin C**

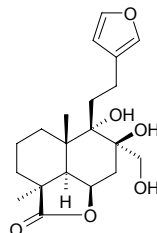
C₁₆H₁₆O₄ (272.30). Source: LONG XUE SHU *Dracaena draco* (stem cortex). Ref: 4696.

**13013 Loxothyrisin A**

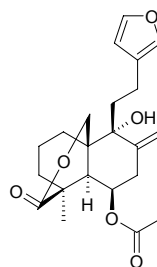
C₂₄H₃₀O₉ (462.50). mp 242~244°C, $[\alpha]_D = -76.3^\circ$ ($c = 0.05$, MeOH). Source: WAN ZHUI XIANG CHA CAI *Isodon loxothyrsa*. Ref: 4067.

**13014 LS-1(furanoditerpenolactone)**

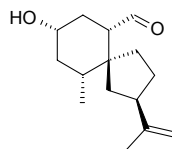
C₂₀H₂₈O₆ (364.44). Amorphous, $[\alpha]_D^{20} = +22.0^\circ$ ($c = 0.6$, MeOH). Pharm: Cytotoxic (leukemia cells L₁₂₁₀ in tissue culture, IC₅₀ = 50~60µg/mL). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4328.

**13015 LS-2(furanoditerpenolactone)**

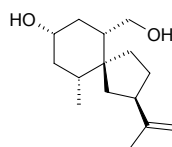
C₂₂H₂₈O₆ (388.46). Amorphous, $[\alpha]_D^{20} = +18.0^\circ$ ($c = 0.5$, MeOH). Pharm: Cytotoxic (leukemia cells L₁₂₁₀ in tissue culture, IC₅₀ = 50~60µg/mL). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4328.

**13016 Lubimin**

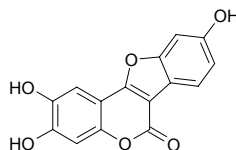
[35951-50-9] C₁₅H₂₄O₂ (236.36). Pharm: Antifungal. Source: MA LING SHU *Solanum tuberosum*, QIE ZI *Solanum melongena*. Ref: 658.

**13017 Lubiminol**

C₁₅H₂₆O₂ (238.37). Source: HONG HAI JIAO *Capsicum annuum* (stem and root: yield = 0.0003%dw). Ref: 4779.

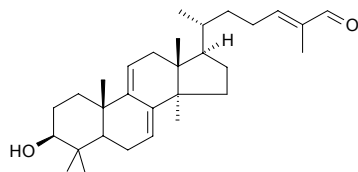
**13018 Lucernol**

[15402-22-9] C₁₅H₈O₆ (284.23). mp > 350°C. Source: MU XU *Medicago sativa*. Ref: 6, 1521.

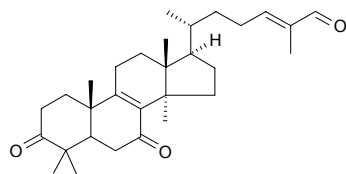


13019 Lucialdehyde A

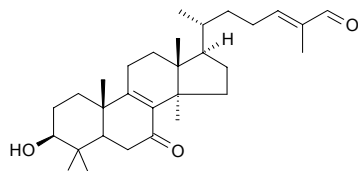
(24E)-3 β -Hydroxy-5 α -lanosta-7,9(11),24-trien-26-al C₃₁H₄₆O₂ (438.70). Amorphous powder (MeOH-H₂O), [α]_D = +32° (c = 0.097, CHCl₃). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, ED₅₀ > 20 μ g/mL; hmn carcinoma T-47D, ED₅₀ > 20 μ g/mL; mus sarcoma S₁₈₀, ED₅₀ > 20 μ g/mL; mus sarcoma Meth-A, ED₅₀ = 10.4 μ g/mL; control Adriamycin, ED₅₀ = 0.06 μ g/mL, 0.02 μ g/mL, 0.11 μ g/mL, 0.13 μ g/mL, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

**13020 Lucialdehyde B**

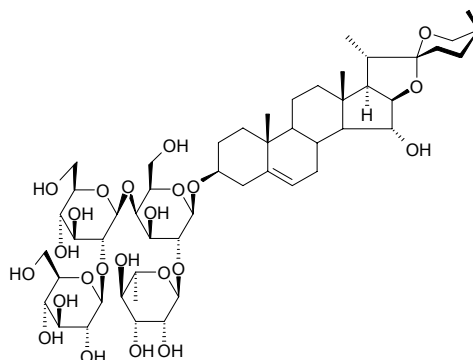
(24E)-3,7-Dioxo-5 α -lanosta-8,24-dien-26-al C₃₀H₄₄O₃ (452.68). Amorphous powder (MeOH-H₂O), [α]_D = +31° (c = 0.105, CHCl₃). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, ED₅₀ = 14.3 μ g/mL; hmn breast carcinoma T47D, ED₅₀ = 15.0 μ g/mL; mus sarcoma S₁₈₀, ED₅₀ > 20 μ g/mL; mus sarcoma Meth-A, ED₅₀ = 4.0 μ g/mL; control Adriamycin, ED₅₀ = 0.06 μ g/mL, 0.02 μ g/mL, 0.11 μ g/mL, 0.13 μ g/mL, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

**13021 Lucialdehyde C**

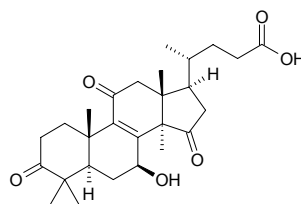
(24E)-3 β -Hydroxy-7-oxo-5 α -lanosta-8,24-dien-26-al C₃₀H₄₆O₃ (454.70). Amorphous powder (MeOH-H₂O), [α]_D = +18° (c = 0.092, CHCl₃). **Pharm:** Cytotoxic (mus lung carcinoma LLC cell, ED₅₀ = 10.7 μ g/mL; hmn breast carcinoma T47D, ED₅₀ = 4.7 μ g/mL; mus sarcoma S₁₈₀, ED₅₀ = 7.1 μ g/mL; mus sarcoma Meth-A, ED₅₀ = 3.8 μ g/mL; control Adriamycin, ED₅₀ = 0.06 μ g/mL, 0.02 μ g/mL, 0.11 μ g/mL, 0.13 μ g/mL, respectively). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 4204.

**13022 Luciamin**

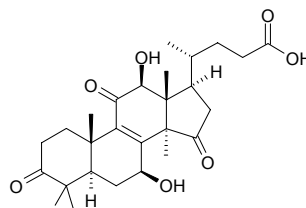
(22R,25S)-Spirost-5-en-3 β ,15 α -diol 3-O- β -D-glucopyranosyl (1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 4)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranoside) C₅₁H₈₂O₂₃ (1063.21). Pale yellow powder, [α]_D²⁰ = -65° (c = 0.3, MeOH). **Pharm:** Insecticidal (aphid *Schizaphis graminum*). **Source:** XI SHU QIE *Solanum laxum* (aerial parts). **Ref:** 5086.

**13023 Lucidenic acid A**

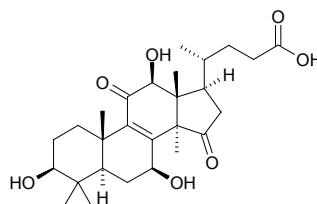
C₂₇H₃₈O₆ (458.60). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 0.164nmol/L; Hep2,2,15, IC₅₀ = 0.205nmol/L; KB, IC₅₀ = 17 μ mol/L; CCM2, IC₅₀ = 27.5 μ mol/L; P₃₈₈, IC₅₀ = 0.017 μ mol/L)^[3081]; EBV-EA activation inhibitor (Raji cells, *in vitro*, TPA-induced, IC₅₀ = 280mol ratio/32pmol TPA, control β -Carotene, IC₅₀ = 400mol ratio/32pmol TPA)^[4737]. **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: mean content of 2 origins = 0.06%^[5508]). **Ref:** 660, 3081, 4737, 5508.

**13024 Lucidenic acid B**

C₂₇H₃₈O₇ (474.60). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

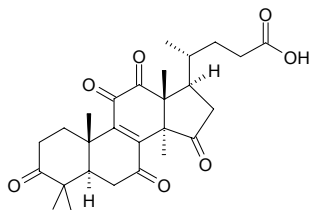
**13025 Lucidenic acid C**

C₂₇H₄₀O₇ (476.62). **Pharm:** EBV-EA activation inhibitor (Raji cells, *in vitro*, TPA-induced, IC₅₀ = 284mol ratio/32pmol TPA, control β -Carotene, IC₅₀ = 400mol ratio/32pmol TPA)^[4737]. **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.011%dw). **Ref:** 660, 3081, 4737.

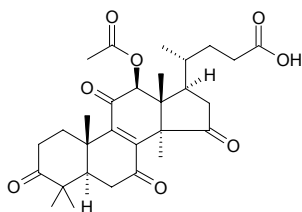


13026 Lucidenic acid D₁

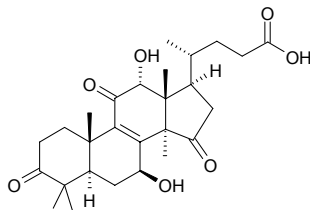
$C_{27}H_{34}O_7$ (470.57). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13027 Lucidenic acid D₂**

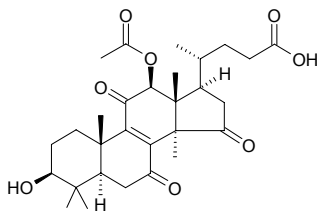
Lucidenic acid D $C_{29}H_{38}O_8$ (514.62). Pharm: EBV-EA activation inhibitor (Raji cells, *in vitro*, TPA-induced, IC_{50} = 287mol ratio/32pmol TPA, control β -Carotene, IC_{50} = 400mol ratio/32pmol TPA)^[4737]. Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.054%dw). Ref: 660, 4737.

**13028 Lucidenic acid E₁**

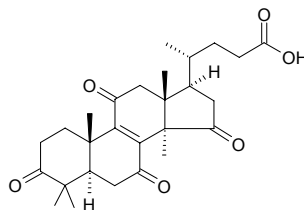
$C_{27}H_{38}O_7$ (474.60). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13029 Lucidenic acid E₂**

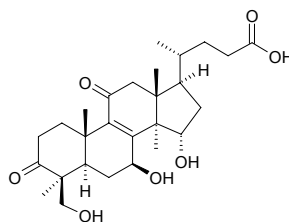
$C_{29}H_{40}O_8$ (516.64). Pharm: EBV-EA activation inhibitor (Raji cells, *in vitro*, TPA-induced, IC_{50} = 280mol ratio/32pmol TPA, control β -Carotene, IC_{50} = 400mol ratio/32pmol TPA)^[4737]. Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.034%dw). Ref: 660, 4737.

**13030 Lucidenic acid F**

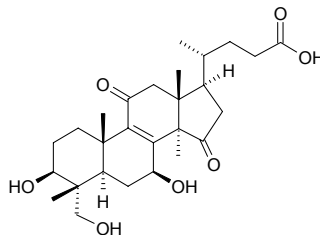
$C_{27}H_{36}O_6$ (456.58). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0033%dw). Ref: 660, 4737.

**13031 Lucidenic acid G**

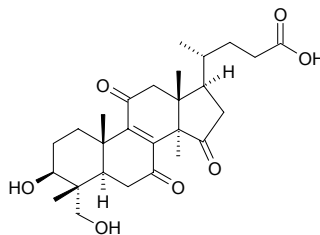
$C_{28}H_{42}O_7$ (490.64). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13032 Lucidenic acid H**

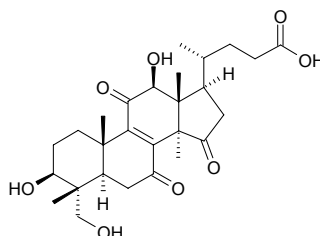
$C_{27}H_{40}O_7$ (476.62). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13033 Lucidenic acid I**

$C_{27}H_{38}O_7$ (474.60). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

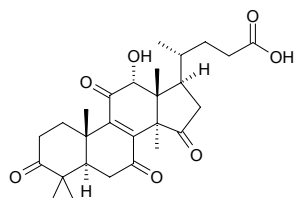
**13034 Lucidenic acid J**

$C_{27}H_{38}O_8$ (490.60). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

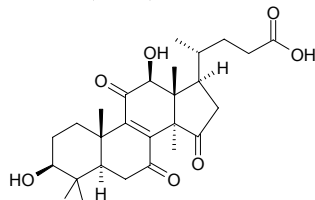


13035 Lucidenic acid K

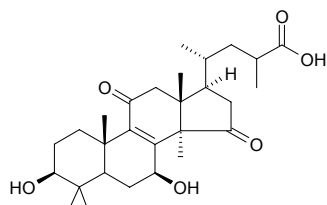
$C_{27}H_{36}O_7$ (472.58). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13036 Lucidenic acid L**

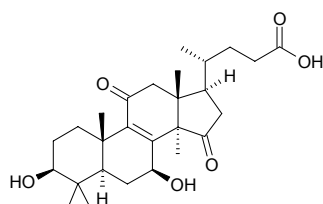
$C_{27}H_{38}O_7$ (474.60). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13037 Lucidenic acid LM₁**

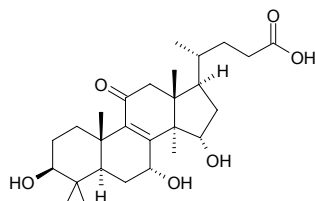
$C_{28}H_{42}O_6$ (474.64). mp 130~131°C, $[\alpha]_D = +140^\circ$. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235.

**13038 Lucidenic acid LW₁**

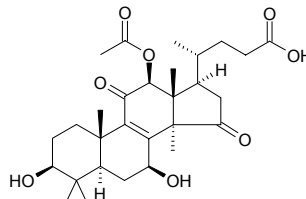
3β,7β-Dihydroxy-4,4,14α-trimethyl-11,15-dioxo-5α-chol-8-en-24-oic acid
 $C_{27}H_{40}O_6$ (460.62). White amorphous mp 130~131°C (Me₂CO), $[\alpha]_D^{25} = +140^\circ$ ($c = 0.014$, Me₂CO); Colorless powder (CHCl₃), mp 202~204°C, $[\alpha]_D = +119.5^\circ$ ($c = 0.23$, CHCl₃). Pharm: Cytotoxic (*in vitro*, HepG2, IC₅₀ = 0.206nmol/L; Hep2,2,15, IC₅₀ = 1.66nmol/L; KB, IC₅₀ = 26.7μmol/L; CCM2, IC₅₀ = 35.5μmol/L; P₃₈₈, IC₅₀ = 0.012μmol/L)^[3081]. Source: LING ZHI *Ganoderma lucidum*. Ref: 2123, 3081.

**13039 Lucidenic acid M**

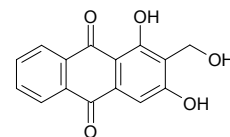
$C_{27}H_{42}O_6$ (462.63). Source: LING ZHI *Ganoderma lucidum*. Ref: 660.

**13040 Lucidenic acid P**

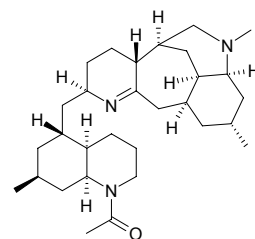
$C_{29}H_{42}O_8$ (518.65). Colorless needles (acetone-MeOH), mp 135~137°C, $[\alpha]_D^{25} = +14.7^\circ$ ($c = 0.38$, CHCl₃). Pharm: EBV-EA activation inhibitor (Raji cells, *in vitro*, TPA-induced, IC₅₀ = 286mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). Source: LING ZHI *Ganoderma lucidum*. Ref: 4737.

**13041 Lucidin**

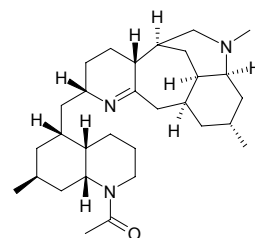
[478-08-0] $C_{15}H_{10}O_5$ (270.24). mp > 330°C. Pharm: Antibacterial (*Salmonella typhimurium*); cytotoxic (KB, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.12μg/mL; Hep3B, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.14μg/mL; Colon205, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.10μg/mL; HeLa, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.11μg/mL)^[4369]. Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem), TU LIAN QIAO *Hymenodictyon excelsum*, XIANG CHE YE CAO *Asperula odorata*, YANG JIAO TENG *Morinda umbellata*, YANG QIAN CAO *Rubia tinctorum*, *Galium* sp. Ref: 6, 658, 4369.

**13042 Lucidine A**

$C_{30}H_{49}N_3O$ (467.74). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

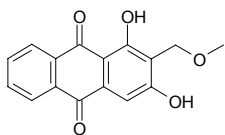
**13043 Lucidine B**

$C_{30}H_{49}N_3O$ (467.74). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

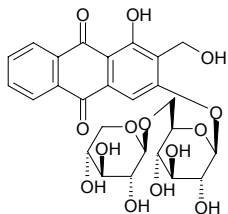


13044 Lucidin *o*-methyl ether

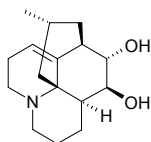
$C_{16}H_{12}O_5$ (284.27). **Pharm:** Cytotoxic (*in vitro* leukemia). **Source:** BAI YAN TENG *Morinda parvifolia*. **Ref:** 658.

**13045 Lucidin primeveroside**

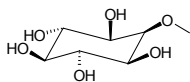
$C_{26}H_{28}O_{14}$ (564.50). **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem). **Ref:** 4369.

**13046 Lucidioline**

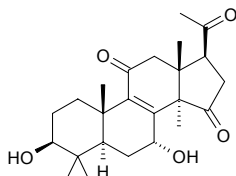
$C_{16}H_{25}NO_2$ (263.38). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 660, 1521, 4388.

**13047 Lucidol**

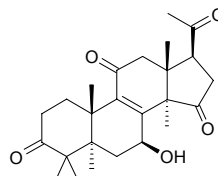
1 β -Methoxy-2 β ,3 α ,4 β ,5 α ,6 β -pentahydroxycyclohexane $C_7H_{14}O_6$ (194.19). White amorphous crystals, white amorphous crystals (MeOH). **Source:** LI BING JIN FEN JUE *Onychium lucidum*. **Ref:** 881.

**13048 Lucidone A**

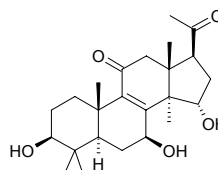
$C_{24}H_{34}O_5$ (402.54). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp; yield = 0.00025%). **Ref:** 660, 4603.

**13049 Lucidone B**

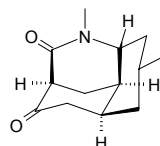
$C_{24}H_{32}O_5$ (400.52). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**13050 Lucidone C**

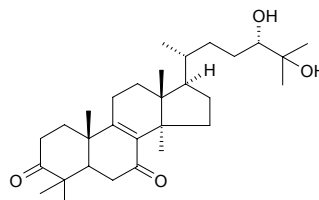
$C_{24}H_{36}O_5$ (404.55). **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 660.

**13051 Lucidulinone**

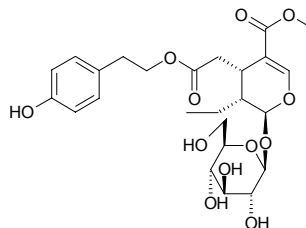
$C_{13}H_{19}NO_2$ (221.30). $[\alpha]_D^{21.5} = +185.0^\circ$ ($c = 1.1$, $CHCl_3$). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**13052 Lucidumol A**

$C_{30}H_{48}O_4$ (472.71). mp 185–187°C, $[\alpha]_D = +35^\circ$. **Source:** LING ZHI *Ganoderma lucidum*. **Ref:** 2235.

**13053 Lucidumoside A**

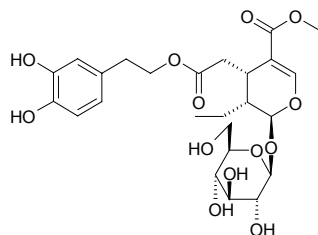
$C_{25}H_{34}O_{12}$ (526.54). Colorless powder, $[\alpha]_D^{15} = -90^\circ$ ($c = 0.41$, MeOH). **Pharm:** Antiviral (Hep2 cells, Para-3, $IC_{50} = 41.7 \mu g/mL$, $TI = 6.0$; MDCK cells, Flu-A, inactive; Vero cells, HSV-1, inactive)^[4141]; anti-hemolysis inactive (rat, red blood cell *in vitro*, AAPH-induced, $IC_{50} > 200 \mu mol/L$, control Trolox, $IC_{50} = 55.0 \mu mol/L$)^[4141]. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 757, 4141.



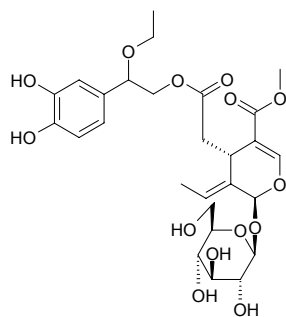
13054 Lucidumside B

$C_{25}H_{34}O_{13}$ (542.54). Colorless powder, $[\alpha]_D^{15} = -103^\circ$ ($c = 0.21$, MeOH).

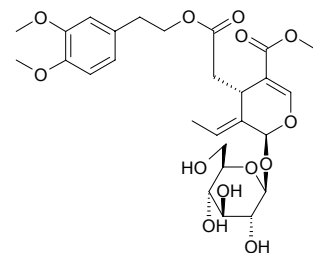
Pharm: Antioxidant (against hemolysis of red blood cells induced by free radicals). **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 757, 3545.

**13055 Lucidumside C**

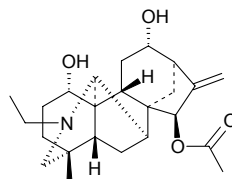
$C_{27}H_{36}O_{14}$ (584.58). Powder, $[\alpha]_D^{15} = -112^\circ$ ($c = 0.22$, MeOH). **Pharm:** Antiviral (Hep2 cells, Para-3, $IC_{50} = 20.8 \mu\text{g/mL}$, $TI = 12.0$; MDCK cells, Flu-A, inactive; Vero cells, HSV-1, inactive)^[4141]; anti-hemolysis (rat, red blood cell *in vitro*, AAPH-induced, $IC_{50} = 9.3 \mu\text{mol/L}$, control Trolox, $IC_{50} = 55.0 \mu\text{mol/L}$)^[4141]; anti-hemolysis (against hemolysis of red blood cells induced by AAPH free radicals, $IC_{50} = 9.3 \mu\text{mol/L}$)^[3545]. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 3545, 4141.

**13056 Lucidumside D**

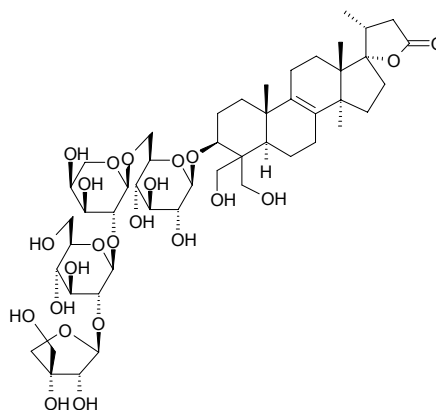
$C_{27}H_{36}O_{13}$ (568.58). Powder, $[\alpha]_D^{15} = -143^\circ$ ($c = 0.32$, MeOH). **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 3545.

**13057 Lucidusculine**

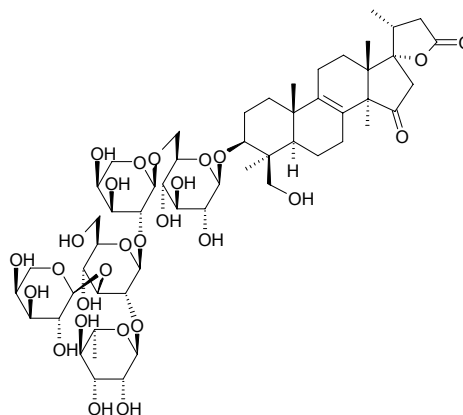
$C_{24}H_{35}NO_4$ (401.55). Lamellar crystals (methanol), mp 170–171°C, $[\alpha]_D = -95.5^\circ$ (chloroform); hydrochloride crystals, containing 3.5 hydrous water, mp 98–115°C, absolute substance mp 245–265°C (dec). **Pharm:** Anti-diuretic (caused by purine group). **Source:** GUANG ZE WU TOU *Aconitum lucidusculum*. **Ref:** 6, 658.

**13058 Lucilianoside C**

3β -[(*O*- β -D-Apiofuranosyl-(1→2)-*O*- β -D-glucopyranosyl-(1→2)-*O*- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]-28,29-dihydroxy-24,25,26,27-tetranorlanost-8-en-17 α ,23-olide $C_{48}H_{76}O_{23}$ (1021.13). Amorphous solid, $[\alpha]_D^{27} = 48.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic inactive (HSC-2 hmn oral squamous cell carcinoma cells, $IC_{50} > 100 \mu\text{g/mL}$; control Etoposide, $IC_{50} = 24 \mu\text{g/mL}$). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). **Ref:** 3495.

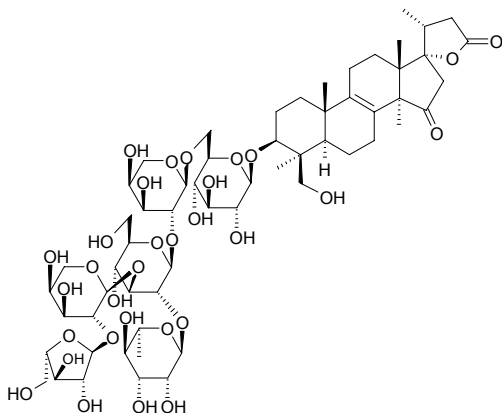
**13059 Lucilianoside D**

3β -[(*O*- α -L-Arabinopyranosyl-(1→3)-*O*-[α -L-rhamnopyranosyl-(1→2)]-*O*- β -D-glucopyranosyl-(1→2)-*O*- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl)oxy]-29-hydroxy-15-oxo-24,25,26,27-tetranorlanost-8-en-17 α ,23-olide $C_{54}H_{84}O_{27}$ (1165.26). Amorphous solid, $[\alpha]_D^{26} = 32.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic inactive (HSC-2 hmn oral squamous cell carcinoma cells, $IC_{50} > 100 \mu\text{g/mL}$; control Etoposide, $IC_{50} = 24 \mu\text{g/mL}$). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). **Ref:** 3495.

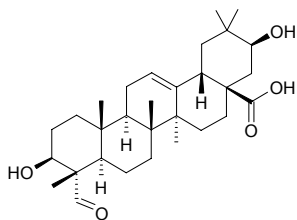


13060 Lucilianoside E

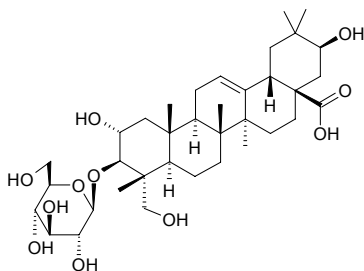
3 β -[(*O*- α -L-Arabinofuranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-29-hydroxy-15-oxo-24,25,26,27-tetranorlanost-8-en-17 α ,23-olide C₅₉H₉₂O₃₁ (1297.37). Amorphous solid, [α]_D²⁶ = 38.5° (*c* = 0.13, MeOH). **Pharm:** Cytotoxic inactive (HSC-2 hmn oral squamous cell carcinoma cells, IC₅₀ > 100 μ g/mL; control Etoposide, IC₅₀ = 24 μ g/mL). **Source:** QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). **Ref:** 3495.

**13061 Lucyin**

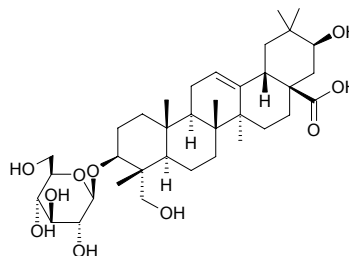
21 β -Hydroxy-gypsogenin C₃₀H₄₆O₅ (486.70). Colorless claviform crystals, mp 240–242°C. **Source:** SI GUA *Luffa cylindrica*. **Ref:** 284.

**13062 Lucyoside R**

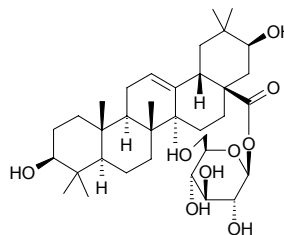
2 α ,21 β -Dihydroxyhederagenin-3-*O*- β -D-glucopyranoside C₃₆H₅₈O₁₁ (666.86). Colorless granular crystals, mp 234–236°C, [α]_D = +35.7° (*c* = 0.40, methanol). **Source:** SI GUA *Luffa cylindrica*. **Ref:** 396.

**13063 Lucyoside N**

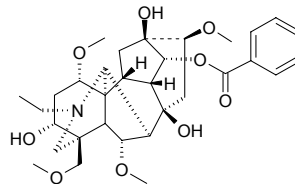
3-*O*- β -D-Glucopyranosyl-21- β -hydroxyhederagenin C₃₆H₅₈O₁₀ (650.86). Colorless granular crystals, mp 221–223°C. **Source:** SI GUA *Luffa cylindrica*. **Ref:** 284.

**13064 Lucyoside Q**

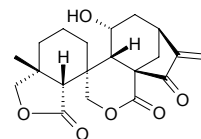
21 β -Hydroxyloleanoic acid-28-*O*- β -D-glucopyranoside C₃₆H₅₈O₉ (634.86). White powder, mp 238–240°C, [α]_D¹⁵ = +23.5° (*c* = 0.40, methanol). **Source:** SI GUA *Luffa cylindrica*. **Ref:** 346.

**13065 Ludaconitine**

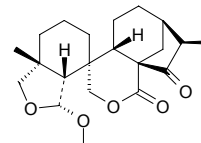
[82144-72-7] C₃₂H₄₅NO₉ (587.72). White amorphous powder. **Source:** GONG GA SHAN WU TOU *Aconitum liljestrandii*. **Ref:** 2191.

**13066 Ludongnin A**

C₂₀H₂₄O₆ (360.41). mp 265–267°C, [α]_D¹² = –94.1° (*c* = 0.68, C₅H₅N). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis*. **Ref:** 4067.

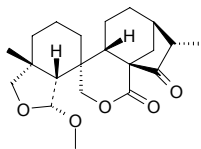
**13067 Ludongnin F**

(16*R*)-6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one C₂₁H₃₀O₅ (362.47). Colorless cube crystals (MeOH), mp 214–215°C, [α]_D²⁰ = –281.9° (*c* = 0.26, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, K562, IC₅₀ > 50 μ g/mL; control *cis*-Platin, IC₅₀ = 0.52 μ g/mL). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00014%dw). **Ref:** 4732.

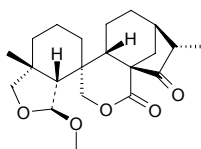


13068 Ludongnin G

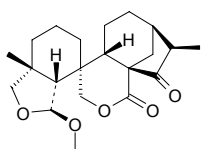
(16*S*)-6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one C₂₁H₃₀O₅ (362.47). Colorless diamond crystals (MeOH), mp 203~204°C, [α]_D²⁰ = -183.6° (*c* = 0.31, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, K562, IC₅₀ > 50µg/mL; control *cis*-Platin, IC₅₀ = 0.52µg/mL). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00011%dw). **Ref:** 4732.

**13069 Ludongnin H**

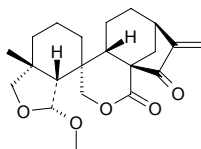
(16*S*)-6 β -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one C₂₁H₃₀O₅ (362.47). White amorphous powder, [α]_D²⁰ = +2.7° (*c* = 0.92, acetone). **Pharm:** Cytotoxic inactive (*in vitro*, K562, IC₅₀ > 50µg/mL; control *cis*-Platin, IC₅₀ = 0.52µg/mL). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.000053%dw). **Ref:** 4732.

**13070 Ludongnin I**

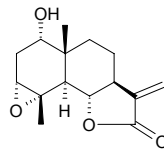
(16*R*)-6 β -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one C₂₁H₃₀O₅ (362.47). White amorphous powder, [α]_D²⁰ = -16.7° (*c* = 0.12, acetone). **Pharm:** Cytotoxic inactive (*in vitro*, K562, IC₅₀ > 50µg/mL; control *cis*-Platin, IC₅₀ = 0.52µg/mL). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00004%dw). **Ref:** 4732.

**13071 Ludongnin J**

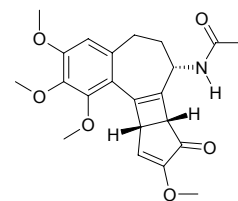
6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-16(17)-en-15-one C₂₁H₂₈O₅ (360.45). Colorless cube crystals (MeOH), mp 164~165°C, [α]_D²⁰ = -233.9° (*c* = 0.93, MeOH). **Pharm:** Cytotoxic (*in vitro*, K562, IC₅₀ = 0.18µg/mL; CA, IC₅₀ = 0.09µg/mL; HeLa, IC₅₀ = 0.7µg/mL; control *cis*-Platin: K562, IC₅₀ = 0.52µg/mL; CA, IC₅₀ = 0.88µg/mL; HeLa, IC₅₀ = 3.6µg/mL). **Source:** LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00026%dw). **Ref:** 4732.

**13072 Ludovicin A**

[27740-13-2] C₁₅H₂₀O₄ (264.32). Crystals (Et₂O-CH₂Cl₂), mp 215°C, [α]_D²⁵ = +128° (CHCl₃). **Pharm:** Antineoplastic; cytotoxic. **Source:** LU DE WEI HAO *Artemisia ludoviciana*, MO XI GE HAO *Artemisia mexicana* var. *angustifolia*. **Ref:** 658.

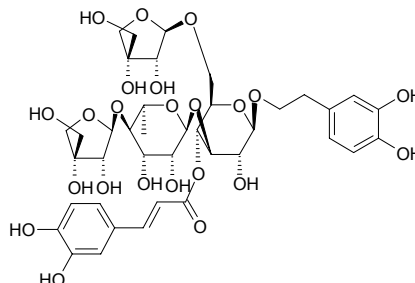
**13073 β -Lumicolchicine**

[6901-13-9] C₂₂H₂₅NO₆ (399.45). mp 184~186°C. **Source:** CAO BEI MU *Iphigenia indica*. **Ref:** 6, 1521.

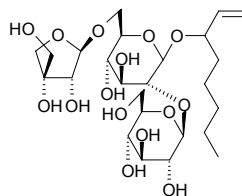
**13074 Lunariifolioside**

2-(3,4-Dihydroxyphenyl)ethyl

O- β -apiofuranosyl-(1 \rightarrow 6)-*O*-[*O*- β -apiofuranosyl-(1 \rightarrow 4)- α -rhamnopyranosyl-(1 \rightarrow 3)]-4-*O*-(*E*)-caffeoyl- β -glucopyranoside C₃₉H₅₂O₂₃ (888.84). Amorphous pale yellow solid, [α]_D²⁰ = -88° (*c* = 0.1, MeOH). **Source:** XIN YUE XING YE CAO SU *Phlomis lunariifolia* (aerial parts). **Ref:** 3864.

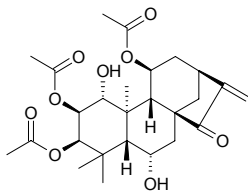
**13075 Lunaroside**

1-Octen-3-yl *O*- β -apiofuranosyl-(1 \rightarrow 6)-*O*-[β -glucopyranosyl-(1 \rightarrow 2)]- β -glucopyranoside C₂₅H₄₄O₁₅ (584.62). Amorphous colorless solid, [α]_D²⁰ = -54° (*c* = 0.1, MeOH). **Source:** XIN YUE XING YE CAO SU *Phlomis lunariifolia* (aerial parts). **Ref:** 3864.

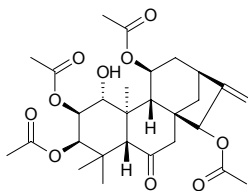


13076 Lungshengenin A

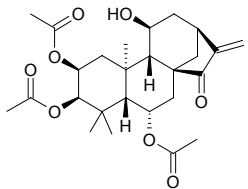
$C_{28}H_{36}O_9$ (492.57). mp 138~140°C, $[\alpha]_D^{21} = -21.9^\circ$ ($c = 1.2$, C_5H_5N). **Pharm:** Antineoplastic ($IC_{50} \leq 10\mu g/kg$); cytotoxic (K562). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690, 4067.

**13077 Lungshengenin B**

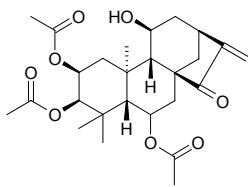
$C_{28}H_{38}O_{10}$ (354.64). Colorless cubes (cyclohexane); mp 166~167°C, $[\alpha]_D^{22} = -66.5^\circ$ ($c = 0.57$, $CHCl_3$); mp 166.3~167.8°C, $[\alpha]_D^{22.5} = -65.47^\circ$ ($c = 0.57$, $CHCl_3$). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690, 4067.

**13078 Lungshengenin C**

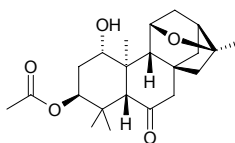
$C_{26}H_{36}O_8$ (476.57). Colorless acicular crystals (Me_2CO); mp 199~201°C, $[\alpha]_D^{22} = -53.7^\circ$ ($c = 0.39$, $CHCl_3$). **Pharm:** Cytotoxic (K562). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690.

**13079 Lungshengenin C**

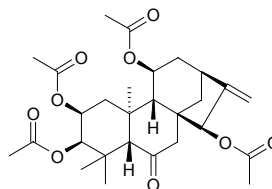
$C_{26}H_{36}O_8$ (476.57). mp 199.3~201.1°C, $[\alpha]_D^{22.5} = -53.71^\circ$ ($c = 0.39$, $CHCl_3$). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 4067.

**13080 Lungshengenin D**

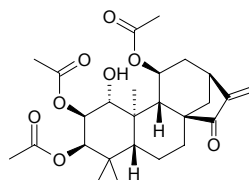
$C_{22}H_{32}O_5$ (376.50). Colorless prisms (Me_2CO); mp 199~200°C, $[\alpha]_D^{22} = +26.4^\circ$ ($c = 0.27$, $CHCl_3$). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690, 4067.

**13081 Lungshengenin E**

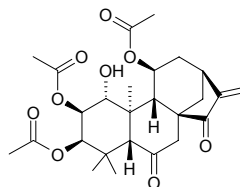
$C_{28}H_{38}O_9$ (518.61). Colorless cubes, mp 241~243, $[\alpha]_D^{22} = -44.5^\circ$ ($c = 0.25$, $MeOH$). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690.

**13082 Lungshengenin F**

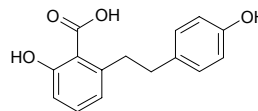
$C_{26}H_{36}O_8$ (476.57). Colorless cubes, mp 95~96°C, $[\alpha]_D^{22} = -94.9^\circ$ ($c = 0.47$, $CHCl_3$); mp 94.7~96.1°C, $[\alpha]_D^{22} = +26.42^\circ$ ($c = 0.27$, $CHCl_3$). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690, 4067.

**13083 Lungshengenin G**

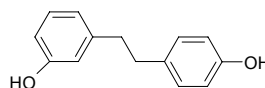
$C_{26}H_{34}O_9$ (490.56). Amorphous powder, $[\alpha]_D^{27} = -80.4^\circ$ ($c = 0.34$, $MeOH$). **Pharm:** Antineoplastic ($IC_{50} \leq 10\mu g/kg$); cytotoxic (K562). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*. **Ref:** 690, 4067.

**13084 Lunularic acid**

[23255-59-6] $C_{15}H_{14}O_4$ (258.28). mp 192°C. **Pharm:** Controls growth of *Hepatica lunularia*; dormancy factor; germination inhibitor (fungi spores); used to resist aridity in agriculture. **Source:** BA XIAN HUA *Hydrangea macrophylla*, *Marchantia* sp. **Ref:** 6, 658.

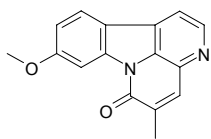
**13085 Lunularin**

[37116-80-6] $C_{14}H_{14}O_2$ (214.27). **Pharm:** Antifungal (*Uromyces fabae*, germination inhibitor of spore). **Source:** BA XIAN HUA *Hydrangea macrophylla*, PING HUA SANG *Morus laevigata*. **Ref:** 658.

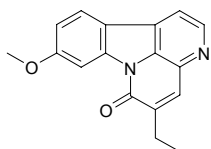


13086 Luotonin C

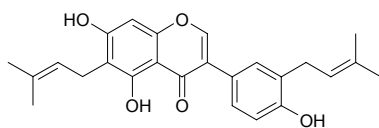
$C_{16}H_{12}N_2O_2$ (264.29). Pale yellow needles (acetone), mp 166–168°C. Source: LUO TUO HAO *Peganum nigellastrum* (aerial parts). Ref: 3945.

**13087 Luotonin D**

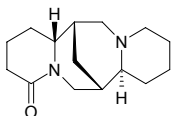
$C_{17}H_{14}N_2O_2$ (278.31). Pale yellow needles (acetone), mp 141–143°C. Source: LUO TUO HAO *Peganum nigellastrum* (aerial parts). Ref: 3945.

**13088 Lupalbigenin**

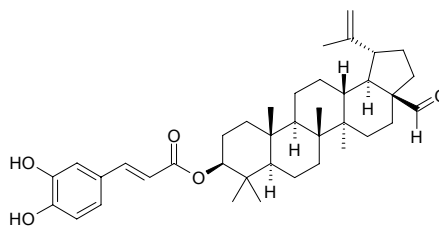
5,7,4'-Trihydroxy-6,5'-diprenylisoflavone $C_{25}H_{26}O_5$ (406.48). Pale yellow amorphous. Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*, 250µg/mL)^[2347]; antioxidant (DPPH scavenger, ScRt = 26.32%; control BHT, ScRt = 71.5%)^[3810]; antioxidant (DPPH scavenger, 10µmol/L, ScRt = 20%; control BHT, 10µmol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 2µg/mL, Vancomycin, MIC = 0.5µg/mL; MRSA SK1, MIC = 4µg/mL, Vancomycin, MIC = 1.0µg/mL)^[3810]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 8µg/mL, control Vancomycin, MIC = 2µg/mL; *Staphylococcus aureus* MRSA SK1, MIC = 8µg/mL, Vancomycin, MIC = 2µg/mL)^[5319]; anti-inflammatory (inhibit brain liposomal peroxidation, 50µg/mL, optical density of DMSO control = (19.3±0.3)%, $p < 0.001$; positive control Propyl gallate, 7.5µmol/mL, optical density of DMSO control = (20.6±0.2)%)^[4984]. Source: BAI YU SHAN DOU *Lupinus albus*, KU TAN ZI *Millettia pachycarpa*, PAN YUAN YU TENG *Derris scandens* (stem), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 1521, 2347, 3810, 4984, 5319.

**13089 Lupanine**

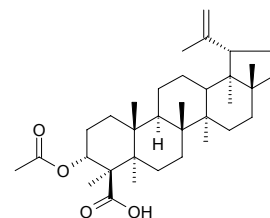
[550-90-3] $C_{15}H_{24}N_2O$ (248.37). mp (+) 44°C, (–) 44°C. Pharm: Antiarrhythmic; antihypertensive; uterine stimulant (rbt, *in vitro*); MLD (gpg, ip) = 200–225mg/kg. Source: BAI YU SHAN DOU *Lupinus albus*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], HONG MAO QI *Leontice robustum*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], MU MA DOU *Thermopsis lanceolata*. Ref: 2, 6, 658.

**13090 Lup-20(29)en-28-al-3β-yl-caffeate**

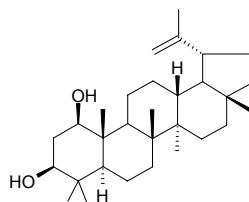
Betunaldehyde-3β-yl-caffeate $C_{39}H_{54}O_5$ (602.86). Amorphous powder, $[\alpha]_D^{25} = +48^\circ$ ($c = 1.0$, MeOH). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], *Celastrus stephanotifolius*. Ref: 2310, 2511.

**13091 Lup-20(29)ene-3α-acetoxy-24-oic acid**

$C_{32}H_{50}O_4$ (498.75). Colorless needles, mp 271–173°C, $[\alpha]_D^{15} = +15.5^\circ$ ($c = 0.12$, CH₃OH). Source: RU XIANG *Boswellia carterii*. Ref: 2238.

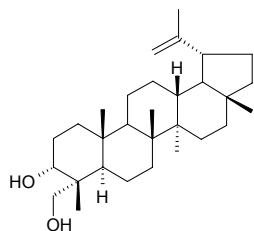
**13092 Lup-20(29)ene-1β,3β-diol**

$C_{30}H_{50}O_2$ (442.73). mp 245–246.5°C, $[\alpha]_D^{23} = +11^\circ$ ($c = 0.25$, CHCl₃); mp 248–249°C (hexane), $[\alpha]_D^{20} = +30.2^\circ$ ($c = 0.7g/100mL$, CHCl₃). Pharm: Antineoplastic (EBV-EA induced by TPA, IC₅₀ = 300(mol ratio/32pmol TPA); control Curcumin IC₅₀ = 343(mol ratio/32pmol TPA))^[4099]; cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), GI₅₀ = (79.2±2.4)µmol/L, control Doxorubicin, GI₅₀ = (42.8±8.2)µmol/L; NCI-H460 (lung), GI₅₀ > 100µmol/L, Doxorubicin, GI₅₀ = (94.0±8.7)µmol/L; SF268(CNS), GI₅₀ > 100µmol/L, Doxorubicin, GI₅₀ = (93.0±7.0)µmol/L)^[5065]. Source: CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum* (stem cortex), MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood). Ref: 4099, 5065.

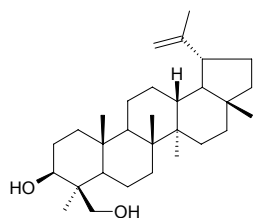


13093 Lup-20(29)-ene-3 α ,23-diol

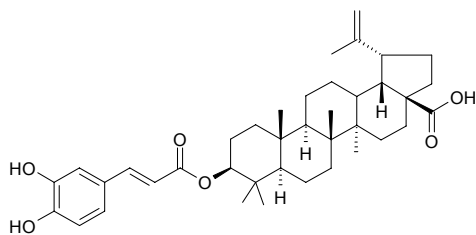
$C_{30}H_{50}O_2$ (442.73). mp 213~214°C (hexane), $[\alpha]_D^{20} = +16.3^\circ$ ($c = 0.6g/100mL$, $CHCl_3$). **Pharm:** Cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), $GI_{50} = (12.7 \pm 1.6)\mu mol/L$, control Doxorubicin, $GI_{50} = (42.8 \pm 8.2)\mu mol/L$; NCI-H460 (lung), $GI_{50} = (17.9 \pm 1.1)\mu mol/L$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7)\mu mol/L$; SF268(CNS), $GI_{50} = (17.9 \pm 0.5)\mu mol/L$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0)\mu mol/L$). **Source:** MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood). **Ref:** 5065.

**13094 Lup-20(29)-ene-3 β ,24-diol**

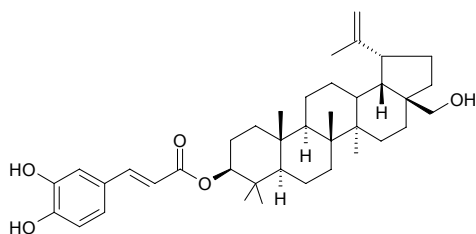
$C_{30}H_{50}O_2$ (442.73). mp 249~250°C, $[\alpha]_D^{23} = +41^\circ$ ($c = 0.58$, $CHCl_3$). **Pharm:** Antineoplastic (EBV-EA induced by TPA, $IC_{50} = 350$ (mol ratio/32pmol TPA); control Curcumin $IC_{50} = 343$ (mol ratio/32pmol TPA)). **Source:** LUO E YE XIA ZHU *Phyllanthus flexuosus* (stem cortex). **Ref:** 4099.

**13095 Lup-20(29)-en-28-oic-3 β -yl caffeate**

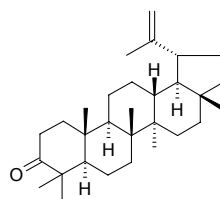
$C_{39}H_{54}O_6$ (618.86). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2511.

**13096 Lup-20(29)-en-28-ol-3 β -yl caffeate**

$C_{39}H_{56}O_5$ (604.88). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2511.

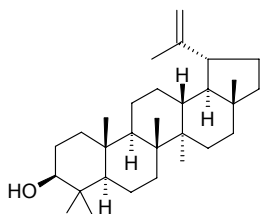
**13097 Lupenone**

$C_{30}H_{48}O$ (424.72). mp 170°C; $[\alpha]_D^{20} = +60.6^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** Cytotoxic inactive (NSCLC-N6 cell line)^[3806]; cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 30.8mg/mL$)^[5379]; 15-Lipoxygenase inhibitor ($IC_{50} = (22 \pm 3)\mu mol/L$)^[4953]; tyrosinase inhibitor (333 $\mu mol/L$, InRt = -2.4%; control Kojic acid, $IC_{50} = 125\mu mol/L$)^[4722]. **Source:** CHI YANG *Alnus japonica*, DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00074%dw)^[4718], JU MI JIN HE HUAN *Acacia mellifera* (stem cortex), MU SHU DI SHANG BU FEN *Manihot esculenta*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00053%)^[4721], TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.055%dw)^[4721], WU TONG BAI PI *Firmiana simplex*, XIAO HUA MU LAN GUO *Bruguiera parviflora*, XI CHANG NAN MEI DOU *Anadenanthera colubrina* (aerial parts). **Ref:** 6, 2532, 3806, 4502, 4718, 4721, 4722, 4953, 5379.

**13098 Lupeol**

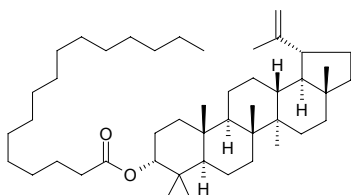
[545-47-1] $C_{30}H_{50}O$ (426.73). Colorless acicular crystals, mp 214~216°C, $[\alpha]_D^{18} = +20^\circ$ ($c = 0.101$, $CHCl_3$); white amorphous powder, $[\alpha]_D^{23} = +23^\circ$ ($c = 0.1$, $CHCl_3$); $[\alpha]_D^{20} = +26.4^\circ$ ($c = 1$, $CHCl_3$). mp 212~214°C, $[\alpha]_D^{23} = +28^\circ$ ($c = 0.55$, $CHCl_3$); mp 199~200°C (EtOH), $[\alpha]_D^{20} = +14.2^\circ$ ($c = 0.08g/mL$, $CHCl_3$). **Pharm:** Antineoplastic (rat W₂₅₆); cytotoxic (hmn fibrosarcoma cells HT1080, $ED_{50} = 16.7\mu g/mL$; control Adriamycin, $ED_{50} = 0.1\mu g/mL$)^[4437]; antihypertensive; hypoglycemic; anti-HSV-1 ($EC_{50} = 11.7\mu mol/L$, $IC_{50} = 49.3\mu mol/L$, SI = 4.20, control Acyclovir, $EC_{50} = 1.72\mu mol/L$, $IC_{50} = 15860\mu mol/L$, SI = 9220)^[2577]; 15-Lipoxygenase inhibitor ($IC_{50} = (35 \pm 9)\mu mol/L$)^[4953]; antineoplastic (EBV-EA induced by TPA, $IC_{50} = 380$ (mol ratio/32pmol TPA), control Curcumin $IC_{50} = 343$ (mol ratio/32pmol TPA))^[4099]; anti-inflammatory (mouse, inhibits TPA-induced ear oedema; myeloperoxidase inhibitor)^[4415]; cytotoxic (inhibition growth of hmn tumor cell lines, MCF7 (breast), $GI_{50} = (75.6 \pm 11.7)\mu mol/L$, control Doxorubicin, $GI_{50} = (42.8 \pm 8.2)\mu mol/L$; NCI-H460 (lung), $GI_{50} = (86.1 \pm 12.4)\mu mol/L$, Doxorubicin, $GI_{50} = (94.0 \pm 8.7)\mu mol/L$; SF268(CNS), $GI_{50} = (80.9 \pm 2.6)\mu mol/L$, Doxorubicin, $GI_{50} = (93.0 \pm 7.0)\mu mol/L$)^[5065]; platelet aggregation inhibitor (100 $\mu mol/L$ AA-induced, 20 $\mu g/mL$, InRt = (12.2 \pm 4.5)%; control Aspirin, 50 $\mu g/mL$, InRt = (100 \pm 0.0)%; 10 $\mu g/mL$ collagen-induced, 20 $\mu g/mL$, InRt = (10.3 \pm 3.0)%, $p < 0.001$, Aspirin, 50 $\mu g/mL$, InRt = (12.2 \pm 1.7)%; 2nmol/L PAF-induced, 20 $\mu g/mL$, InRt = (3.1 \pm 2.1)%, $p < 0.001$, Aspirin, 50 $\mu g/mL$, InRt = (9.6 \pm 1.2)%; 0.1 $\mu g/mL$ thrombin-induced, 20 $\mu g/mL$, InRt = (0.5 \pm 0.3)%); cytotoxic (NSCLC-N6 cell line, $IC_{50} > 30\mu g/mL$)^[3806]; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu mol/L$)^[3057]. **Source:** AN MO LE *Phyllanthus emblica*, BAI JIANG CAN *Bombyx mori*, BO TE LAN DA JI *Euphorbia portlandica* (whole herb), CAN JIAN *Bombyx mori*, DA YE DONG QING *Ilex latifolia*, *Fagara xanthoxyloides*, GOU GU SHU PI *Ilex cornuta*, GOU QI ZI *Lycium chinense*, GUI GAI *Coprinus atramentarius*, HUANG LONG DAN *Gentiana*

lutea (rhizome and root), HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0231%dw)^[4799], JIAN YE TOU WU GEN *Ligularia sagitta*, JU MI JIN HE HUAN *Acacia mellifera* (stem cortex), JUN QIAN ZI *Diospyros lotus*, KU DI DAN *Elephantopus scaber*, LIE WEI LIE LAN *Bursera graveolens* (stem), LUO E YE XIA ZHU *Phyllanthus flexuosus* (stem cortex), MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], MAO GUO SUAN PAN ZI *Glochidion eriocarpum* (root and stem wood), QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.00069%dw)^[4783], SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], SANG YE *Morus alba*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], SHAN REN YE *Rhodomyrtus tomentosa*, SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0028%)^[4721], TAI WAN FENG DOU CAI *Petasites formosanus*, WU HUA GUO *Ficus carica*, WU HUA GUO YE *Ficus carica*, XI CHANG NAN MEI DOU *Anadenanthera colubrine* (aerial parts), XIAO HUA MU LAN GUO *Bruguiera parviflora*, YANG MEI *Myrica rubra*, YI HE GUO *Ventilago leiocarpa* (stem)^[3057], YOU GAN GEN *Phyllanthus emblica*, YOU GAN MU PI *Phyllanthus emblica*, YOU GAN YE *Phyllanthus emblica*, YUAN CAN SHA *Bombyx mori*, YUN SHI *Caesalpinia decapetala* (leaf), occurs in many plants (*Ficus* spp.; *Achras* spp.; *Raucheria* spp.). Ref: 6, 453, 658, 660, 2377, 2532, 2577, 3806, 4099, 4307, 4415, 4437, 4456, 4953, 5019, 5065, 5382, 5385.



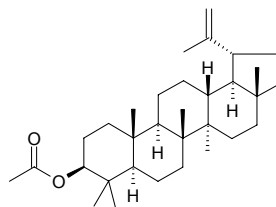
13099 Lupeol palmitate

Balanophorin B [32214-80-5] C₄₆H₈₀O₂ (665.15). White amorphous powder (Me₂CO), mp 68–69°C. Source: YIN DU SHE GU *Balanophora indica* [Syn. *Langodorfia indica*]. Ref: 633.



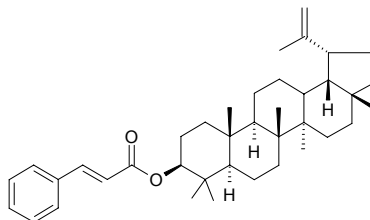
13100 Lupeol acetate

Lupenyl acetate C₃₂H₅₂O₂ (468.77). Crystals, mp 206–209°C, mp 217–218°C. Pharm: Antineoplastic; hypoglycemic; inhibitory activity against NFAT Transcription (IC₅₀ > 100 μmol/L, positive control Cyclosporin A, IC₅₀ = (0.29±0.01) μmol/L)^[2536]. Source: HUA CHA BIAO *Ribes fasciculatum* var. *chinense*, HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], KU DI DAN *Elephantopus scaber*, MANG GUO SHU PI *Mangifera indica*, SU KU BA DOU HUA *Himatanthus sucuuba*, WU LOU ZI *Phoenix dactylifera*, XIANG PI MU *Alstonia scholaris*. Ref: 6, 658, 2536, 4143.



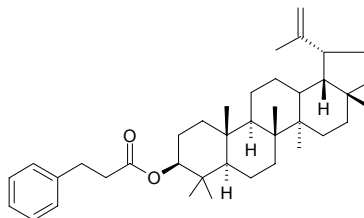
13101 Lupeol cinnamate

C₃₉H₅₆O₂ (556.88). Amorphous solid. Source: SU KU BA DOU HUA *Himatanthus sucuuba*. Ref: 4143.



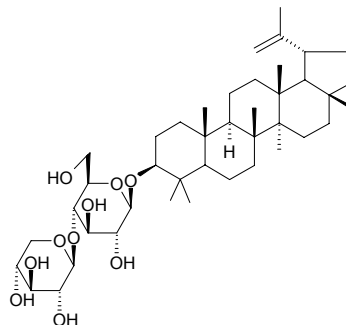
13102 Lupeol β-phenyl propionate

C₃₉H₅₈O₂ (558.90). Amorphous solid. Source: SU KU BA DOU HUA *Himatanthus sucuuba*. Ref: 4143.



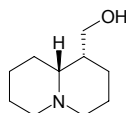
13103 Lupeol-3-O-β-D-xylopyranosyl(1→4)-O-β-D-glucopyranoside

C₄₁H₆₈O₁₀ (720.99). Source: YANG DAO DOU *Canavalia ensiformis*. Ref: 660.



13104 Lupinine

C₁₀H₁₉NO (169.27). Pharm: Insect antifeedant; insect growth inhibitor (grasshoppers). Source: WU YE JIA MU ZEII *Anabasis aphylla*, HUANG YU SHAN DOU *Lupinus luteus*. Ref: 658.

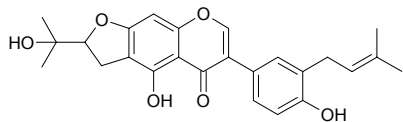


13105 Lupinisoflavone G

$C_{25}H_{26}O_6$ (422.48). Pale yellow amorphous, $[\alpha]_D = -8.2^\circ$ ($c = 0.14$, EtOH).

Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*,

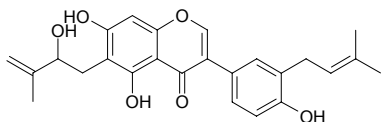
500~1000 μ g/mL). **Source:** PAN YUAN YU TENG *Derris scandens*. **Ref:** 2347.

**13106 Lupinisol A**

$C_{25}H_{26}O_6$ (422.48). Pale yellow amorphous, $[\alpha]_D = +36.1^\circ$ ($c = 0.056$, EtOH).

Pharm: Antifungal (dermatophyte *Trichophyton mentagrophytes*,

500~1000 μ g/mL). **Source:** PAN YUAN YU TENG *Derris scandens*. **Ref:** 2347.

**13107 Lupiwighteone**

5,7,4'-Trihydroxy-8-prenylisoflavone [104691-86-3] $C_{20}H_{18}O_5$ (338.36).

Pharm: Antibacterial (*Escherichia coli*, MIA = 10.0 μ g, control

Chloramphenicol, MIA = 0.001 μ g; *Bacillus subtilis*, MIA = 0.50 μ g,

Chloramphenicol, MIA = 0.001 μ g; *Staphylococcus aureus*, MIA = 0.5 μ g,

Chloramphenicol, MIA = 0.001 μ g)^[3785]; antifungal (*Candida mycoderma*,

MIA = 0.05 μ g, Miconazole, MIA = 0.0001 μ g)^[3785]; antioxidant (DPPH

scavenger, TLC detection limit = 1.0 μ g, IC₅₀ = 670 μ g/mL; control Quercetin,

TLC detection limit < 0.05 μ g, IC₅₀ = 7 μ g/mL; Gallic acid, TLC detection

limit < 0.05 μ g, IC₅₀ = 4 μ g/mL; Ascorbic acid, TLC detection limit < 0.10 μ g,

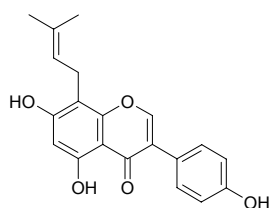
IC₅₀ = 18 μ g/mL)^[3785]; antioxidant (DPPH scavenger, ScRt = 15.79%, control

BHT, ScRt = 71.5%)^[3810]. **Source:** CHI DOU *Vigna angularis* [Syn. *Dolichus*

angularis; *Phaseolus angularis*], GAN CAO *Glycyrrhiza uralensis*, HUANG

YU SHAN DOU *Lupinus luteus*, *Bolusanthus speciosus* (root wood), PAN

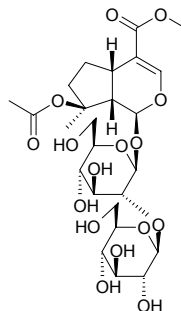
YUAN YU TENG *Derris scandens* (stem). **Ref:** 660, 1521, 3785, 3810.

**13108 Lupuloside**

$C_{25}H_{38}O_{16}$ (594.57). Colorless amorphous solid, $[\alpha]_D^{29} = -41.6^\circ$ ($c = 0.125$,

MeOH). **Pharm:** Cytotoxic inactive (vero cells); COX-2 inhibitor inactive.

Source: HUA YE JIA DU JUAN *Barleria lupulina* (flower). **Ref:** 5456.

**13109 Lupulone**

β -Bitter acid [468-28-0] $C_{26}H_{38}O_4$ (414.59). Prismatic crystals (90%

methanol), mp 92~94°C. **Pharm:** Anti-inflammatory (NO production inhibitor,

in vitro, macrophage RAW264.7 cells, induced by LPS/IFN- γ , IC₅₀ =

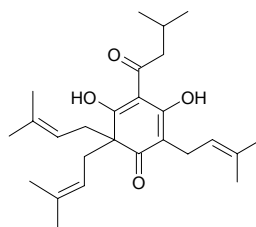
17 μ mol/L, but with very strong cytotoxicity)^[4795]; antibacterial

(*Staphylococcus aureus*, MIC = 0.60~1.25 μ g/mL; *Mycobacterium*

tuberculosis, IC = 1~10 μ g/mL; gram-positive bacteria, *Bacillus subtilis*); LD₅₀

(rat, orl) = 1.8g/kg. **Source:** LV CAO *Humulus japonicus* [Syn. *Humulus*

scandens], PI JIU HUA *Humulus lupulus* (strobile)^[4795]. **Ref:** 4, 6, 661, 4795.

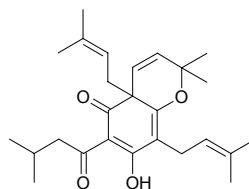
**13110 Lupulone A**

$C_{26}H_{36}O_4$ (412.57). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.3$, MeOH). **Pharm:**

Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7

cells, induced by LPS/IFN- γ , IC₅₀ = 20 μ mol/L, but with very strong cytotoxicity).

Source: PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

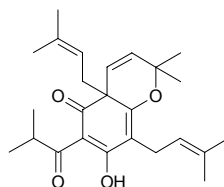
**13111 Lupulone B**

$C_{25}H_{34}O_4$ (398.55). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.4$, MeOH). **Pharm:**

Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7

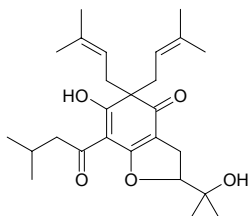
cells, induced by LPS/IFN- γ , IC₅₀ = 14 μ mol/L, but with very strong cytotoxicity).

Source: PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

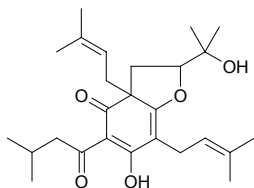


13112 Lupulone C

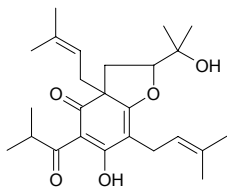
$C_{26}H_{38}O_5$ (430.59). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.4$, MeOH). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} = 63\mu\text{mol/L}$, but with very strong cytotoxicity). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

**13113 Lupulone D**

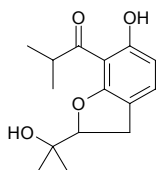
$C_{26}H_{38}O_5$ (430.59). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.4$, MeOH). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} = 11\mu\text{mol/L}$, but with very strong cytotoxicity, $2\mu\text{mol/L}$, $80\% < \text{cell viability} < 95\%$). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

**13114 Lupulone E**

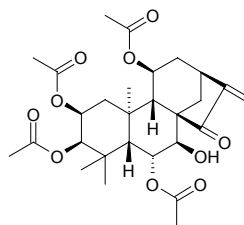
$C_{25}H_{36}O_5$ (416.56). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.5$, MeOH). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} = 15\mu\text{mol/L}$, but with very strong cytotoxicity, $2\mu\text{mol/L}$, $80\% < \text{cell viability} < 95\%$). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

**13115 Lupulone F**

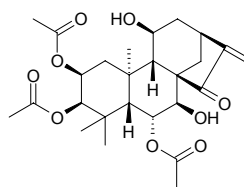
$C_{15}H_{20}O_4$ (264.32). Yellow oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.7$, MeOH). **Pharm:** NO production Inhibitor inactive (*in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN- γ , $IC_{50} > 100\mu\text{mol/L}$). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4795.

**13116 Lushanrubescensin A**

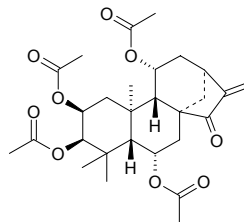
$C_{28}H_{38}O_{10}$ (534.61). mp $185\text{--}186^\circ\text{C}$, $[\alpha]_D^{22} = -49.10^\circ$ ($c = 0.54$, MeOH). **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*. **Ref:** 4067.

**13117 Lushanrubescensin B**

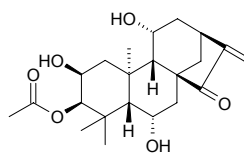
$C_{26}H_{36}O_9$ (492.57). mp $182\text{--}184^\circ\text{C}$, $[\alpha]_D^{22} = -78.5^\circ$ ($c = 0.52$, MeOH). **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*. **Ref:** 4067.

**13118 Lushanrubescensin C**

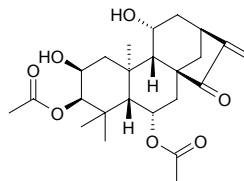
[110325-78-5] $C_{28}H_{38}O_9$ (518.61). mp $190\text{--}192^\circ\text{C}$, $[\alpha]_D^{19} = -51.25^\circ$ ($c = 0.17$, MeOH). **Source:** LONG SHENG XIANG CHA CAI *Isodon lungshengensis*, LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*. **Ref:** 690, 1521, 4067.

**13119 Lushanrubescensin D**

$C_{22}H_{32}O_6$ (392.50). mp 238°C . **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*. **Ref:** 4067.

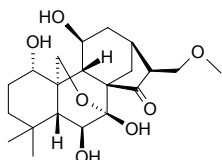
**13120 Lushanrubescensin E**

$C_{24}H_{34}O_7$ (434.53). mp $215\text{--}217.5^\circ\text{C}$, $[\alpha]_D^{19} = -77.5^\circ$ ($c = 0.1$, MeOH). **Source:** LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis*. **Ref:** 4067.

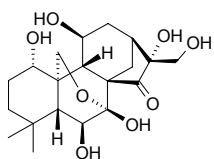


13121 Lushanrubescensin F

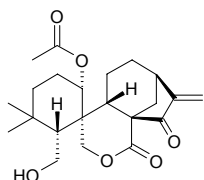
$C_{21}H_{32}O_7$ (396.48). Colorless needles, mp 202~203°C, $[\alpha]_D^{20} = -77.3^\circ$ ($c = 0.11$, acetone). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf). Ref: 4353.

**13122 Lushanrubescensin G**

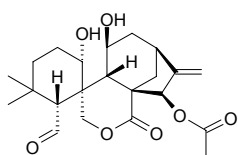
$C_{20}H_{30}O_8$ (398.46). White amorphous powder, $[\alpha]_D^{20} = -40.2^\circ$ ($c = 0.06$, acetone). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf). Ref: 4353.

**13123 Lushanrubescensin H**

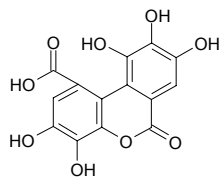
$C_{22}H_{30}O_6$ (390.48). Colorless needles, mp 201~202°C, $[\alpha]_D^{20} = +31.8^\circ$ ($c = 0.32$, acetone). Pharm: Cytotoxic (K562, $IC_{50} = 3.56\mu\text{mol/L}$, control Cisplatin $IC_{50} = 3.84\mu\text{mol/L}$; Beap37, $IC_{50} = 13.42\mu\text{mol/L}$, control Cisplatin $IC_{50} = 1.54\mu\text{mol/L}$; BGC823, $IC_{50} = 8.91\mu\text{mol/L}$, control Cisplatin $IC_{50} = 2.54\mu\text{mol/L}$; CA, $IC_{50} = 8.25\mu\text{mol/L}$, control Cisplatin $IC_{50} = 0.88\mu\text{mol/L}$; HeLa, $IC_{50} > 100\mu\text{mol/L}$, control Cisplatin $IC_{50} = 3.60\mu\text{mol/L}$). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf). Ref: 4353.

**13124 Lushanrubescensin I**

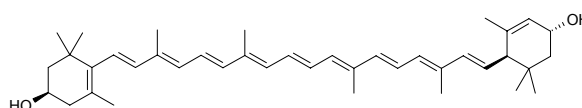
$C_{22}H_{30}O_7$ (406.48). amorphous powder, $[\alpha]_D^{20} = +45.2^\circ$ ($c = 1.99$, MeOH). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf). Ref: 4353.

**13125 Luteic acid**

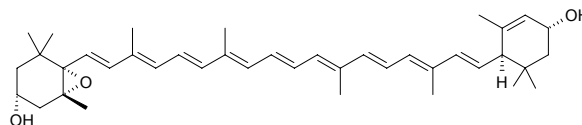
$C_{14}H_8O_9$ (320.21). mp 338~342°C (dec). Source: FAN SHI LIU PI *Psidium guajava*. Ref: 6.

**13126 Lutein**

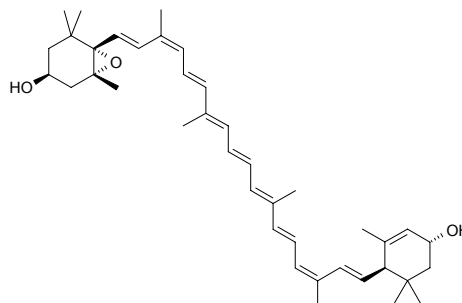
[127-40-2] $C_{40}H_{56}O_2$ (568.89). mp 196°C. Source: DA TU SI ZI *Cuscuta japonica*, DAO CAO *Oryza sativa*, FENG LI *Ananas comosus*, HAI XIA *Panaeus orientalis*, HUO SUO MA *Helicteres isora*, JI ZI BAI *Gallus gallus domesticus*, JI ZI HUANG *Gallus gallus domesticus*, JIA LIAN QIAO YE *Duranta repens*, JIN YU *Carassius auratus*, JING MI *Oryza sativa*, LI MENG *Citrus limonia*, LI MENG YE *Citrus limonia*, LI YU PI *Cyprinus carpio*, MEI ZHOU SUAN GUO LUO *Vaccinium macrocarpon*, NAN FANG TU SI ZI *Cuscuta australis*, NING MENG *Citrus limon*, SU MI *Setaria italica*, SUAN SHUI CAO *Potamogeton perfoliatus*, WAN SHOU JU *Tagetes erecta*, YAO YONG PU GONG YING *Taraxacum officinale*, YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (twig and leaf: yield = 0.00015%dw)^[4707], ZI CAI *Porphyrus tenera*, *Citrus* sp., *Prunus* sp., *Malus* sp., occurs in many plants. Ref: 6, 660, 4707.

**13127 Lutein epoxide**

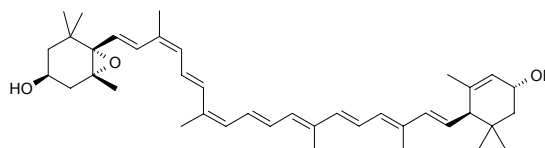
Taraxanthin $C_{40}H_{56}O_3$ (584.89). mp 184~185°C. Source: DAO CAO *Oryza sativa*, KUAN DONG HUA *Tussilago farfara*, NAN FANG TU SI ZI *Cuscuta australis*, NI TAN XIAN *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*], SHUI JIN FENG *Impatiens nolitangere*, WENG CAI *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], XIANG YUAN *Citrus wilsonii*, YI ZHU QIAN MA *Urtica dioica*. Ref: 6, 660.

**13128 (9Z,9'Z)-Lutein-5,6-epoxide**

$C_{40}H_{56}O_3$ (584.89). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

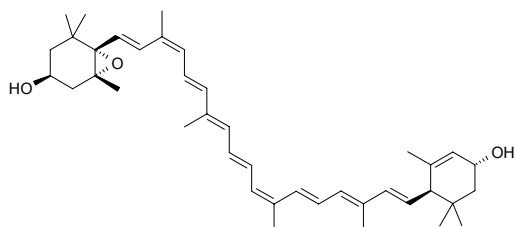
**13129 (9Z,13Z)-Lutein-5,6-epoxide**

$C_{40}H_{56}O_3$ (584.89). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

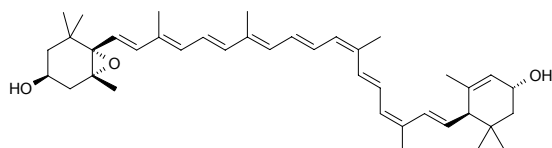


13130 (9Z,13'Z)-Lutein-5,6-epoxide

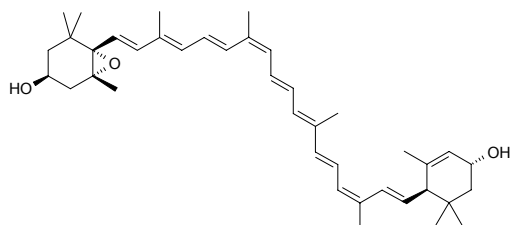
C₄₀H₅₆O₃ (584.89). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

**13131 (9'Z,13'Z)-Lutein-5,6-epoxide**

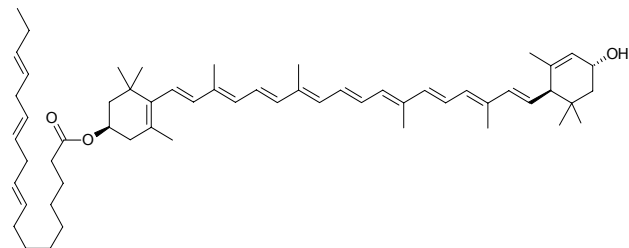
C₄₀H₅₆O₃ (584.89). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

**13132 (13Z,9'Z)-Lutein-5,6-epoxide**

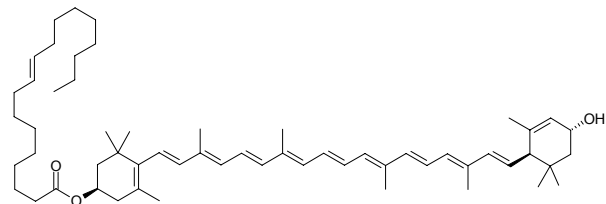
C₄₀H₅₆O₃ (584.89). Source: DA HUA JU *Dendranthema grandiflorum* (petal). Ref: 3865.

**13133 Lutein-3-linolenate**

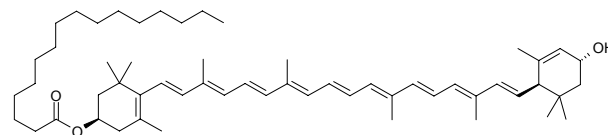
C₅₈H₈₄O₃ (829.31). Source: XIANG RI KUI YE *Helianthus annuus*. Ref: 6.

**13134 Lutein oleic acid ester**

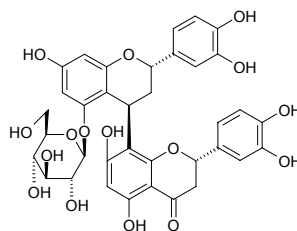
C₅₈H₈₈O₃ (833.35). Source: DI TANG HUA *Kerria japonica*. Ref: 6.

**13135 Lutein-3-palmitate**

C₅₆H₈₆O₃ (807.31). Source: XIANG RI KUI YE *Helianthus annuus*. Ref: 6.

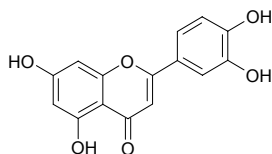
**13136 Luteoilflavan-(4β→8)-eriodictyol-5-glucoside**

C₃₆H₃₆O₁₆ (724.66). Pharm: Tanning agent. Source: GAO LIANG *Sorghum vulgare*. Ref: 658.

**13137 Luteolin**

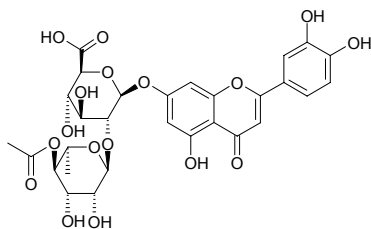
5,7,3',4'-Tetrahydroxyflavone [491-70-3] C₁₅H₁₀O₆ (286.24). Yellow needles, mp 328–330°C (dec). Pharm: Antiallergic; antibacterial (*Staphylococcus aureus* and *Bacillus subtilis*, EC = 1:35000, *Diplococcus pneumoniae*, *Coccus catarrhal*, *Bacillus typhosus*, *Bacillus dysenteriae*, *Bacillus pyocyaneus* and *Bacillus termo*); antifungal (*Candida albicans*); cytotoxic (NK/LY ascites cancer *in vitro*); anti-inflammatory (rat, caused by woolball-embedding, 20mg/(kg·d), 7 days); antispasmodic (rbt intestine *in vitro*, gpg trachea smooth muscle and ileum); antitussive (inhibits coughing center); dispels phlegm (rat capillary tube method, mus P.S.P. method); antiviral (*H. suis* virus); enhances arterial tension and lowers intravenous tension (dog heart *in vitro*, 5~10mg); enhances blood capillary permeability (rat, 0.5g/kg sc); immunoenhancer; increases coronary flow; dihydrocoenzyme I (NADH) oxidase inhibitor; iodine-induced thyronine deiodinase inhibitor; aldose reductase inhibitor (eye lens, IC₅₀ = 0.45μmol/L, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4214,4530]; protein kinase C inhibitor; succinic oxidase inhibitor; antihypercholesterolemic (rbt, reduces the level of cholesterol and triglyceride in serum); anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF-α and IL-6 release in RAW264.7 macrophages, IC₅₀ < 1μmol/L)^[4416]; anti-inflammatory (*in vivo*, inhibits production of TNF-α and decreases both PMA and oxazolone-induced allergic ear oedema)^[4416]; anti-inflammatory (significantly reduces LPS-stimulated ICAM-1 expression in liver of LPS-treated mouse)^[4416]; anti-inflammatory (treatment of airway bronchoconstriction and bronchial hyperreactivity, reduces level of both IL-4 and IL-5, a suggested lead compound to treat asthma)^[4416]; anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean IC₅₀ = 18.7μmol/L)^[4416]; anti-inflammatory (COX-2 inhibitor, rat renal medulla, moderate activity)^[4415]; 15-lipoxygenase inhibitor^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; anti-HIV; LD₅₀ (mus, ip) = 180mg/kg. Source: DA CHE QIAN *Plantago major*, DAN HUANG MU XI CAO *Reseda luteola* (first isolated in 1832), HEI SHUI XIE CAO *Valeriana amurensis*, HUANG HE MAO REN DONG *Lonicera fulvotomentosa*, HUANG HUA HAO

Artemisia annua, JI YAN CAO *Kummerowia striata*, JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.0001%fw)^[4664], JIN FEI CAO *Inula japonica*, JIN YIN HUA *Lonicera japonica* (flower bud: content scope = 0.45%–5.18%), JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (dried capitulum: content scope of 24 origins = 0.002%–0.105%, mean content = 0.0563%^[5508]), LANG PA CAO *Bidens tripartita* (whole herb: mean content = 0.171%^[5508]), LUO HUA SHENG *Arachis hypogaea*, MI MENG HUA *Buddleja officinalis*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00007%dw)^[4752], SHAN WO JU *Lactuca indica* (fresh whole herb: yield = 0.0024%fw)^[4689], SHI SHENG BIAN LEI *Gentianopsis paludosa*, SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), WU JU LOU DOU CAI *Aquilegia ecalcarata* (whole herb: yield = 0.00017%dw)^[3029], XIA KU CAO *Prunella vulgaris*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YAO YONG PU GONG YING *Taraxacum officinale*, YE JU HUA *Chrysanthemum indicum*, YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.048%^[5535]), occurs in many plants (Fabaceae spp., Resedaceae spp., Euphorbiaceae spp., Apiaceae spp., Scrophulariaceae spp., Asteraceae spp., Cistaceae spp. and Passifloraceae spp.). Ref: 2, 4, 369, 602, 658, 660, 1521, 3029, 4214, 4415, 4416, 4530, 4664, 4689, 4752, 5400, 5501, 5508, 5535.



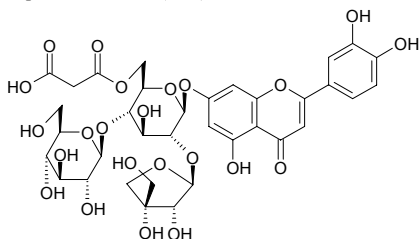
13138 Luteolin 7-O-[2''-O-(4'''-O-acetyl- α -L-rhamnopyranosyl)]- β -D-glucuronopyranoside

$C_{29}H_{30}O_{17}$ (650.55). Amorphous yellow solid, $[\alpha]_D^{20} = -87^\circ$ ($c = 0.1$, MeOH). Source: XIN YUE XING YE CAO SU *Phlomis lunariifolia* (aerial parts). Ref: 3864.



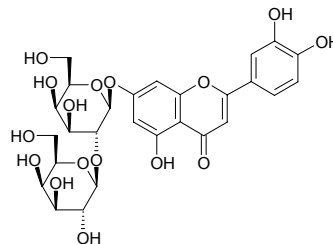
13139 Luteolin 7-O-[2-(β -D-apiofuranosyl)-4-(β -D-glucopyranosyl)-6-malonyl]- β -D-glucopyranoside

$C_{35}H_{40}O_{23}$ (828.70). Yellow amorphous powder. Source: HONG HAI JIAO *Capsicum annuum* (fruit). Ref: 3419.



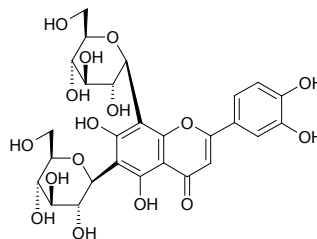
13140 Luteolin-7-O-digalactoside

$C_{27}H_{30}O_{16}$ (610.53). Source: REN DONG TENG *Lonicera japonica*. Ref: 660.



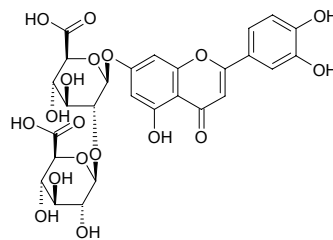
13141 Luteolin-6,8-C-diglucoside

$C_{27}H_{30}O_{16}$ (610.53). Source: BAI CHANG *Acorus calamus*. Ref: 660.



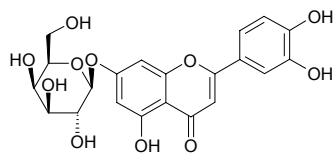
13142 Luteolin-7-O-diglucuronide

$C_{27}H_{26}O_{18}$ (638.50). Source: HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 660.



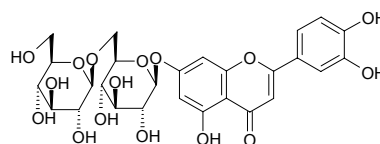
13143 Luteolin 7-O- β -D-galactoside

$C_{21}H_{20}O_{11}$ (448.39). Source: NIU SHE TOU *Sonchus arvensis*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. Ref: 2, 521.



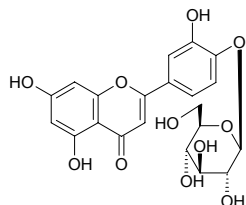
13144 Luteolin-7-O-gentiobioside

$C_{27}H_{30}O_{16}$ (610.53). Source: LUO SHI TENG *Trachelospermum jasminoides*. Ref: 660.

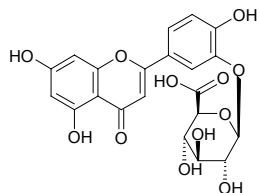


13145 Luteolin-4'-O-glucoside

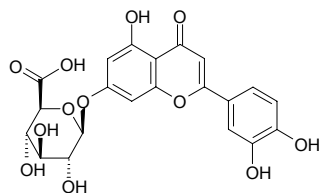
[6920-38-3] C₂₁H₂₀O₁₁ (448.39). mp 168~178°C. **Pharm:** Anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean IC₅₀ = 3.7 μmol/L)^[4416]; Xanthinoxidase inhibitor (IC₅₀ = 2.0 μmol/L); cAMP phosphodiesterase inhibitor (IC₅₀ = 79 μmol/L); aldose reductase inhibitor (IC₅₀ = 4.8 μmol/L, control Epalrestat, IC₅₀ = 0.072 μmol/L)^[4530]. **Source:** JI YAN CAO *Kummerowia striata*, LUO SHI TENG *Trachelospermum jasminoides*, MU DI XIANG WAN DOU *Lathyrus pratensis*, SHU QU CAO *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 6, 660, 1652, 1699, 4416, 4530.

**13146 Luteolin-3'-O-glucuronide**

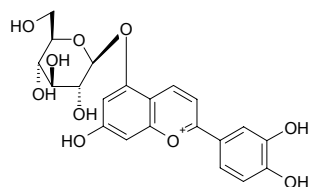
C₂₁H₁₈O₁₂ (462.37). **Source:** MI DIE XIANG *Rosmarinus officinalis*, SHE TAI *Conocephalum conicum*. **Ref:** 660.

**13147 Luteolin-7-O-β-D-glucuronide**

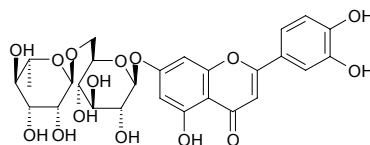
Luteolin 7-O-β-D-glucopyranosiduronic acid C₂₁H₁₈O₁₂ (462.37). mp 182~182°C. **Source:** SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0030%fw)^[4689], WO JU *Lactuca sativa*, YE JU HUA *Chrysanthemum indicum*. **Ref:** 6, 4214, 4689.

**13148 Luteolinidin-5-glucoside**

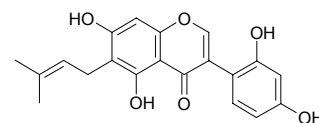
C₂₁H₂₁O₁₀⁺ (433.40). **Source:** MAN JIANG HONG *Azolla imbricata* [Syn. *Salvinia imbricata*] **Ref:** 660.

**13149 Luteolin-7-rutinoside**

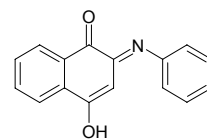
Luteolin 7-O-rutinoside C₂₇H₃₀O₁₅ (594.53). **Pharm:** Aldose reductase inhibitor (IC₅₀ = 0.92 μmol/L, control Epalrestat, IC₅₀ = 0.072 μmol/L)^[4530]. **Source:** JI CAI *Capsella bursa-pastoris*, SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 6, 4530.

**13150 Luteone**

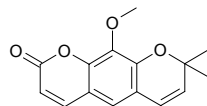
[41743-56-0] C₂₀H₁₈O₆ (354.36). **Pharm:** Antifungal. **Source:** BAI YU SHAN DOU *Lupinus albus*. **Ref:** 658.

**13151 Lutine**

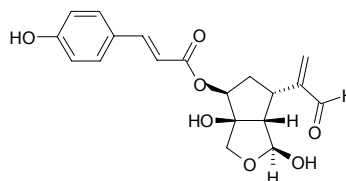
2-Anilino-1,4-naphthoquinone [66855-47-8] C₁₆H₁₁NO₂ (249.27). **Source:** DAN HUANG MU XI CAO *Reseda luteola*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00001%dw). **Ref:** 1521, 4752.

**13152 Luvangetin**

[483-92-1] C₁₅H₁₄O₄ (258.28). mp 108~109°C. **Source:** YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

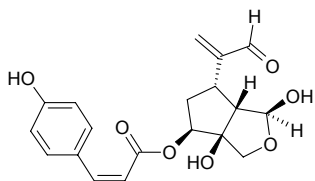
**13153 Luzonial A**

C₁₉H₂₀O₇ (360.37). Yellow oil; [α]_D²¹ = -7.1° (c = 1.04, MeOH). **Pharm:** Cytotoxic (HeLa-S3 cancer cells, moderate, IC₅₀ = 3.5 μmol/L, control 5-Fluorouracil IC₅₀ = 5.4 μmol/L, Cisplatin IC₅₀ = 2.46 μmol/L). **Source:** LV SONG JIA MI *Viburnum luzonicum*. **Ref:** 2538.

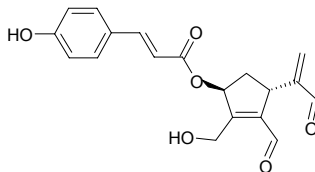


13154 Luzonial B

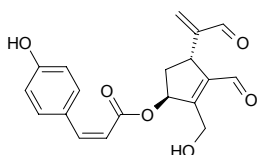
$C_{19}H_{20}O_7$ (360.37). Yellow oil; $[\alpha]_D^{21} = -1.9^\circ$ ($c = 1.17$, MeOH). **Pharm:** Cytotoxic (HeLa-S3 cancer cells, moderate, $IC_{50} = 1.93\mu\text{mol/L}$, control 5-Fluorouracil $IC_{50} = 5.4\mu\text{mol/L}$, Cisplatin $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum*. **Ref:** 2538.

**13155 Luzonidial A**

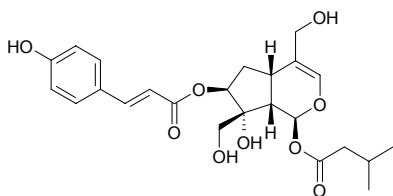
$C_{19}H_{18}O_6$ (342.35). Yellow oil; $[\alpha]_D^{21} = -183.4^\circ$ ($c = 0.94$, CHCl_3). **Pharm:** Cytotoxic (HeLa-S3 cancer cells, moderate, $IC_{50} = 24.5\mu\text{mol/L}$, control 5-Fluorouracil $IC_{50} = 5.4\mu\text{mol/L}$, Cisplatin $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum*. **Ref:** 2538.

**13156 Luzonidial B**

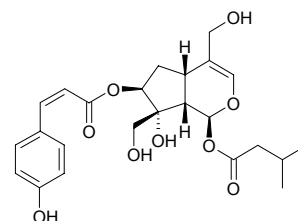
$C_{19}H_{18}O_6$ (342.35). Yellow oil; $[\alpha]_D^{21} = -32.4^\circ$ ($c = 0.54$, CHCl_3). **Source:** LV SONG JIA MI *Viburnum luzonicum*. **Ref:** 2538.

**13157 Luzonoid A**

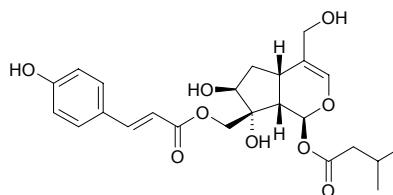
$C_{24}H_{30}O_9$ (462.5). Yellow oil, $[\alpha]_D^{21} = +41.0^\circ$ ($c = 0.64$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 2.89\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.0033%). **Ref:** 4777.

**13158 Luzonoid B**

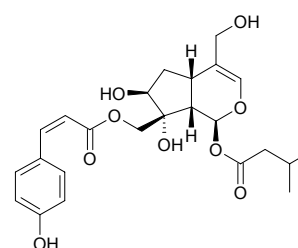
$C_{24}H_{30}O_9$ (462.5). Yellow oil, $[\alpha]_D^{21} = -53.7^\circ$ ($c = 2.11$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 3.11\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.0020%). **Ref:** 4777.

**13159 Luzonoid C**

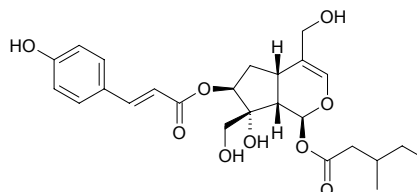
$C_{24}H_{30}O_9$ (462.5). Yellow oil, $[\alpha]_D^{21} = -54.1^\circ$ ($c = 0.35$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 3.57\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00069%). **Ref:** 4777.

**13160 Luzonoid D**

$C_{24}H_{30}O_9$ (462.5). Yellow oil, $[\alpha]_D^{21} = -43.3^\circ$ ($c = 1.03$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 4.56\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00026%). **Ref:** 4777.

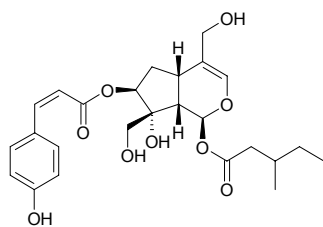
**13161 Luzonoid E**

1-*O*-Deisovaeroyl-1-*O*-3-methylvaleroylluzonoid A $C_{25}H_{32}O_9$ (476.53). Yellow oil, $[\alpha]_D^{21} = +54.1^\circ$ ($c = 0.21$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 7.4\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00061%). **Ref:** 4777.

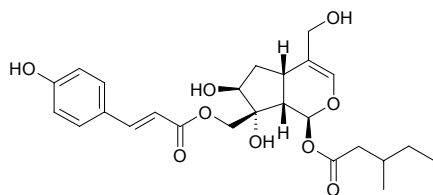


13162 Luzonoid F

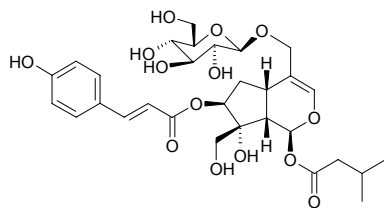
$C_{25}H_{32}O_9$ (476.53). Colorless oil, $[\alpha]_D^{21} = -32.1^\circ$ ($c = 2.10$, MeOH). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00012%). **Ref:** 4777.

**13163 Luzonoid G**

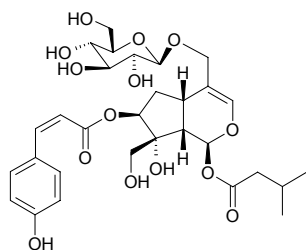
$C_{25}H_{32}O_9$ (476.53). Colorless oil, $[\alpha]_D^{21} = -36.1^\circ$ ($c = 0.80$, MeOH). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00011%). **Ref:** 4777.

**13164 Luzonoside A**

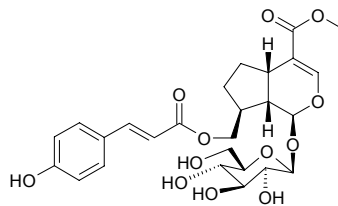
7-*O*-(*E*)-*p*-Coumaroylsuspensolide F $C_{30}H_{40}O_{14}$ (624.64). Yellow paste, $[\alpha]_D^{21} = -18.6^\circ$ ($c = 0.60$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 3.39\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00016%). **Ref:** 4777.

**13165 Luzonoside B**

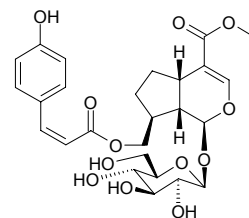
7-*O*-(*Z*)-*p*-Coumaroylsuspensolide F $C_{30}H_{40}O_{14}$ (624.64). Yellow paste, $[\alpha]_D^{21} = -41.1^\circ$ ($c = 0.45$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} = 4.67\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00022%). **Ref:** 4777.

**13166 Luzonoside C**

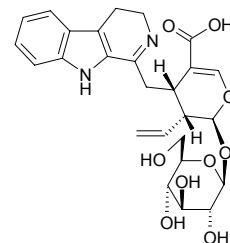
10-*O*-(*E*)-*p*-Coumaroyladoxoside $C_{26}H_{32}O_{12}$ (536.54). Yellow paste, $[\alpha]_D^{21} = -9.6^\circ$ ($c = 0.31$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} > 100\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00021%). **Ref:** 4777.

**13167 Luzonoside D**

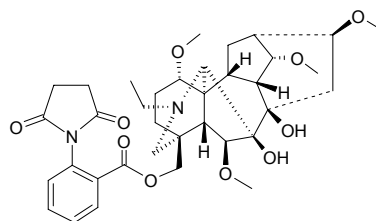
10-*O*-(*Z*)-*p*-Coumaroyladoxoside $C_{26}H_{32}O_{12}$ (536.54). Yellow paste, $[\alpha]_D^{21} = +32.6^\circ$ ($c = 0.27$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HeLa-S3, $IC_{50} > 100\mu\text{mol/L}$; control Cisplatin, $IC_{50} = 2.46\mu\text{mol/L}$). **Source:** LV SONG JIA MI *Viburnum luzonicum* (leaf: yield = 0.00021%). **Ref:** 4777.

**13168 Lyalosidic acid**

$C_{26}H_{30}N_2O_9$ (514.54). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb). **Ref:** 4527.

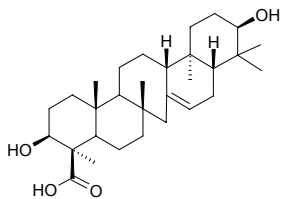
**13169 Lycaconitine**

[25867-19-0] $C_{36}H_{48}N_2O_{10}$ (668.79). **Pharm:** Increases blood pressure (anesthetic rbt, dose $> 0.25\text{mg/kg}$, blood pressure rises slightly). **Source:** KE SHEN MI ER CUI QUE *Delphinium cashmerianum*, LANG DU WU TOU *Aconitum lycoctonum*, NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*]. **Ref:** 658, 660.

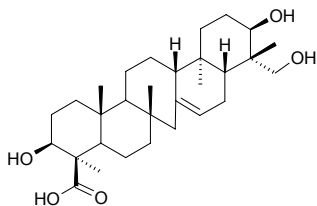


13170 Lycernuic acid A

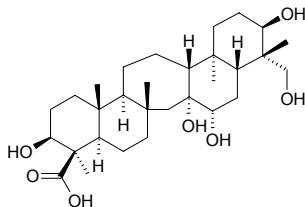
$C_{30}H_{48}O_4$ (472.71). Colorless powder, mp 322–324°C (MeOH/CHCl₃), $[\alpha]_D^{26} = -21.0^\circ$ ($c = 0.10$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0030%dw). Ref: 660, 4633.

**13171 Lycernuic acid B**

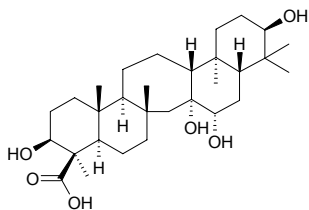
$C_{30}H_{48}O_5$ (488.71). Colorless powder, mp 304–305°C (MeOH/CHCl₃), $[\alpha]_D^{26} = -31.0^\circ$ ($c = 0.10$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0013%dw). Ref: 660, 4633.

**13172 Lycernuic acid C**

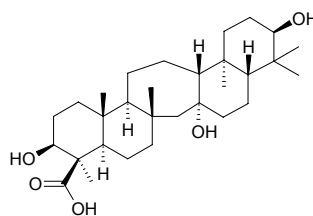
$C_{30}H_{50}O_7$ (522.73). Colorless powder, mp 265–266°C (MeOH/CHCl₃), $[\alpha]_D^{22} = -42.0^\circ$ ($c = 0.20$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0022%dw). Ref: 4633.

**13173 Lycernuic acid D**

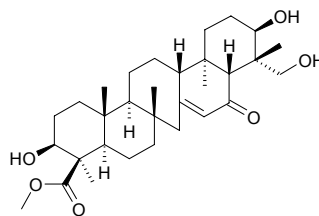
$C_{30}H_{50}O_6$ (506.73). Colorless powder, mp 289–290°C (MeOH/CHCl₃), $[\alpha]_D^{26} = -35.0^\circ$ ($c = 0.10$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.00058%dw). Ref: 4633.

**13174 Lycernuic acid E**

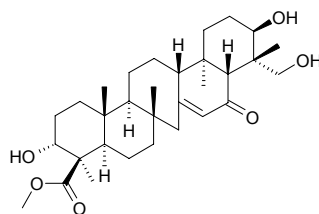
$C_{30}H_{50}O_5$ (490.73). Colorless powder, mp 245–246°C (MeOH/CHCl₃), $[\alpha]_D^{26} = -46.0^\circ$ ($c = 0.10$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.00067%dw). Ref: 4633.

**13175 Lycernuic ketone A**

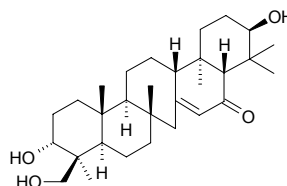
$C_{31}H_{48}O_6$ (516.72). Colorless powder, mp 176–177°C (MeOH/CHCl₃), $[\alpha]_D^{26} = -22.5^\circ$ ($c = 0.20$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.00067%dw). Ref: 4633.

**13176 Lycernuic ketone B**

$C_{31}H_{48}O_6$ (516.72). Colorless powder, mp 189–190°C (MeOH/CHCl₃), $[\alpha]_D^{26} = +51.7^\circ$ ($c = 0.30$, MeOH). Source: PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0027%dw). Ref: 4633.

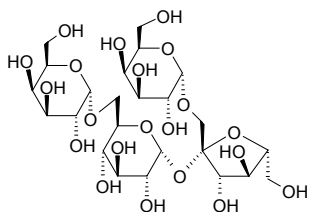
**13177 Lycernuic ketone C**

3 α ,21 β ,24-Trihydroxyserrat-14-en-16-one $C_{30}H_{48}O_4$ (472.71). Colorless powder, mp 235–236°C (MeOH/CHCl₃), $[\alpha]_D^{26} = +28.3^\circ$ ($c = 0.30$, MeOH). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.00017%dw), PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0031%dw). Ref: 4633, 4729.

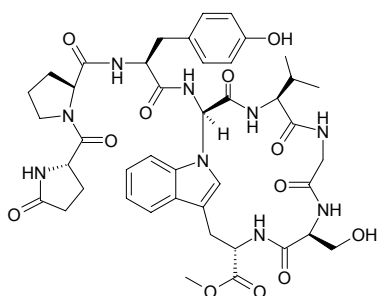


13178 Lychnose

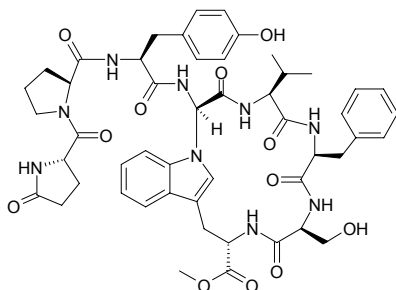
$C_{24}H_{42}O_{21}$ (666.59). Source: BAI NIU XI *Cucubalus baccifer*. Ref: 6.

**13179 Lyciumin A methylate**

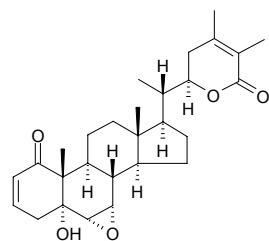
$C_{43}H_{53}N_9O_{12}$ (887.95). Source: QIANG XIANG *Celosia argentea* (seed; yield = 0.00001%). Ref: 4771.

**13180 Lyciumin C methylate**

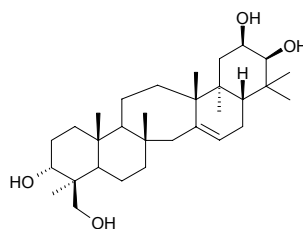
$C_{50}H_{59}N_9O_{12}$ (978.08). Source: QIANG XIANG *Celosia argentea* (seed; yield = 0.00003%). Ref: 4771.

**13181 Lycium substance B**

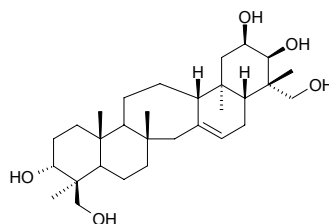
$C_{28}H_{38}O_5$ (454.61). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**13182 Lyclaninol**

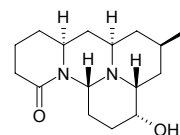
$C_{30}H_{50}O_4$ (474.73). Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 660.

**13183 Lyclanitin**

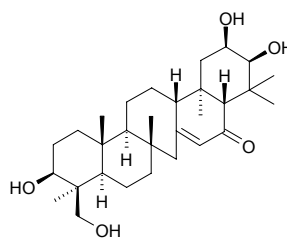
$C_{30}H_{50}O_5$ (490.73). Source: GUO JIANG LONG *Lycopodium complanatum*. Ref: 660.

**13184 Lycocernuine**

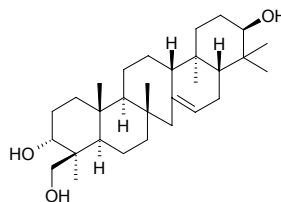
[6871-55-2] $C_{16}H_{26}N_2O_2$ (278.40). mp 230°C. Source: PU DI WU GONG *Lycopodium cernuum*. Ref: 6, 1521.

**13185 Lycoclavanin**

[27832-90-2] $C_{30}H_{48}O_5$ (488.71). mp 344–346°C. Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6, 1521.

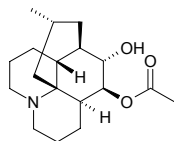
**13186 Lycoclavanol**

[13956-51-9] $C_{30}H_{50}O_3$ (458.73). mp 308–310°C. Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6, 1521.

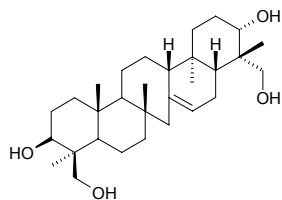


13187 Lycoclavine

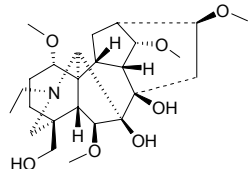
$C_{18}H_{29}NO_3$ (307.44). Source: GAO SHAN BIAN ZHI SHI SONG
Lycopodium alpinum [Syn. *Diphasiastrum alpinum*], QIAN CENG TA
Huperzia serrata [Syn. *Lycopodium serratum*]. Ref: 660.

**13188 Lycocryptol**

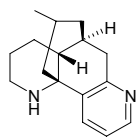
$C_{30}H_{50}O_4$ (474.73). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn.
Lycopodium phlegmaria]. Ref: 660.

**13189 Lycoctonine**

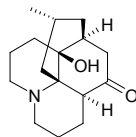
Methyl-1-cyclohexen-1-yl-1,3,5,7,9,11,13-tetradecaheptaene [26000-17-9]
 $C_{25}H_{41}NO_7$ (476.61). Pharm: Antihypertensive (cat, iv, 2~5mg/kg; anesthetic
cat, iv, 5~15mg/kg). Source: E MEI CUI QUE HUA *Delphinium omeiense*,
LANG DU WU TOU *Aconitum lycoctonum*, QIANG GU FEI YAN CAO
Delphinium consolida, XI MA XUAN FU HUA *Inula royleana*, XUE
SHANG YI ZHI HAO *Aconitum brachypodium*. Ref: 618, 658, 2190.

**13190 Lycodine**

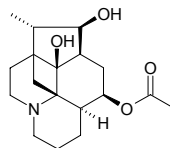
[20316-18-1] $C_{16}H_{22}N_2$ (242.37). mp 118°C. Source: QIAN CENG TA
Huperzia serrata [Syn. *Lycopodium serratum*]. Ref: 6.

**13191 Lycodoline**

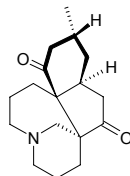
[6900-92-1] $C_{16}H_{25}NO_2$ (263.38). mp 180°C; $[\alpha]_D^{25} = -123^\circ$ (MeOH). Source:
DONG BEI SHI SHAN *Huperzia miyoshiana*, QIAN CENG TA *Huperzia*
serrata [Syn. *Lycopodium serratum*], SHEN JIN CAO *Lycopodium japonicum*
[Syn. *Lycopodium clavatum*], XIAO JIE JIN CAO *Huperzia selago* [Syn.
Lycopodium selago]. Ref: 6, 5412.

**13192 Lycofawcine**

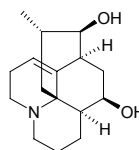
$C_{18}H_{27}NO_4$ (321.42). Source: DAN SUI SHI SONG *Lycopodium annotinum*.
Ref: 660.

**13193 Lycoflexine**

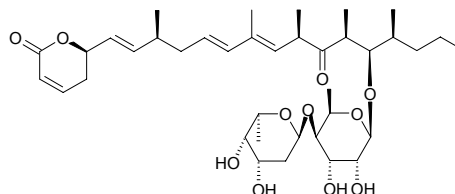
Lycobergine $C_{17}H_{25}NO_2$ (275.39). Source: MA WEI SHAN *Phlegmariurus*
phlegmaria [Syn. *Lycopodium phlegmaria*]. Ref: 660.

**13194 Lycofoline**

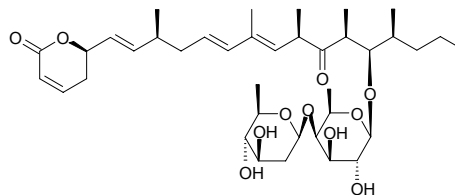
$C_{16}H_{25}NO_2$ (263.38). Source: YU BAI SHI SONG *Lycopodium obscurum*.
Ref: 660.

**13195 Lycogalinoside A**

$C_{38}H_{60}O_{11}$ (692.90). White powder, $[\alpha]_D^{23} = -19^\circ$ ($c = 0.09$, MeOH). Pharm:
Antibacterial (gram-positive bacteria: 10µg sample were applied on 6.35mm
paper disks, *Staphylococcus aureus*, DIZ = 52mm; *Bacillus subtilis*, DIZ =
12mm; *Escherichia coli*, DIZ = 8mm); antifungal (*Candida albicans*, DIZ =
2mm; *Saccharomyces cerevisiae*, DIZ = 7mm). Source: FEN LIU JUN
Lycogala epidendrum. Ref: 3427.

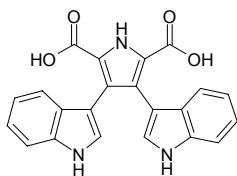
**13196 Lycogalinoside B**

$C_{38}H_{60}O_{11}$ (692.90). White powder, $[\alpha]_D^{23} = -41^\circ$ ($c = 0.08$, MeOH). Pharm:
Antibacterial (gram-positive bacteria: 10µg sample were applied on 6.35mm
paper disks, *Staphylococcus aureus*, DIZ = 6.4mm; *Bacillus subtilis*, DIZ =
1.6mm, *Escherichia coli*, DIZ = 2mm); antifungal (*Candida albicans*, DIZ =
9mm; *Saccharomyces cerevisiae*, DIZ = 32mm). Source: FEN LIU JUN
Lycogala epidendrum. Ref: 3427.

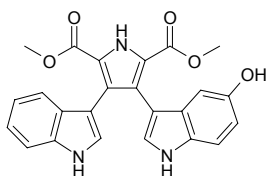


13197 Lycogaric acid A

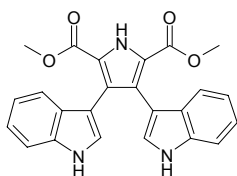
$C_{22}H_{15}N_3O_4$ (385.38). **Pharm:** Cytotoxic inactive (HeLa cells, $IC_{50} > 100\mu g/mL$). **Source:** FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). **Ref:** 4465.

**13198 Lycogarubi B**

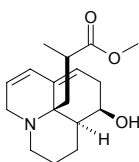
$C_{24}H_{19}N_3O_5$ (429.44). **Pharm:** Cytotoxic inactive (HeLa cells, $IC_{50} > 100\mu g/mL$). **Source:** FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). **Ref:** 4465.

**13199 Lycogarubin C**

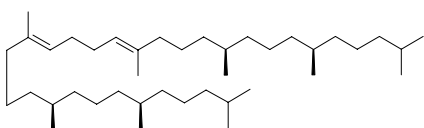
$C_{24}H_{19}N_3O_4$ (413.44). **Pharm:** Cytotoxic (HeLa cells, $IC_{50} = 24.0\mu g/mL$). **Source:** FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). **Ref:** 4465.

**13200 Lyconnotine**

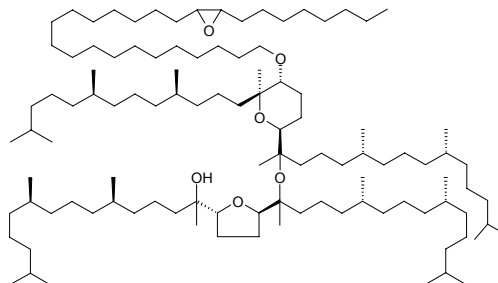
$C_{17}H_{25}NO_3$ (291.39). **Source:** DAN SUI SHI SONG *Lycopodium annotinum*. **Ref:** 660.

**13201 Lycopadiene**

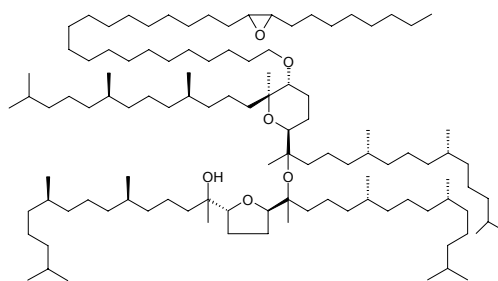
$C_{40}H_{78}$ (559.07). **Source:** CONG LI ZAO *Botryococcus braunii*. **Ref:** 3964.

**13202 Lycopanero B1**

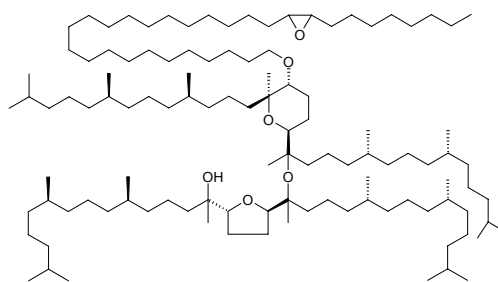
$C_{108}H_{212}O_6$ (1606.89). Clear oil. **Source:** CONG LI ZAO *Botryococcus braunii*. **Ref:** 3964.

**13203 Lycopanero B2**

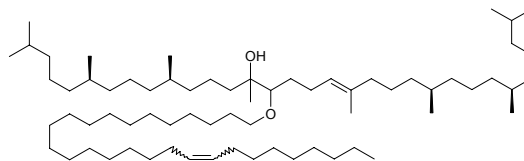
$C_{110}H_{216}O_6$ (1634.94). Clear oil. **Source:** CONG LI ZAO *Botryococcus braunii*. **Ref:** 3964.

**13204 Lycopanero B3**

$C_{112}H_{220}O_6$ (1663.00). Clear oil. **Source:** CONG LI ZAO *Botryococcus braunii*. **Ref:** 3964.

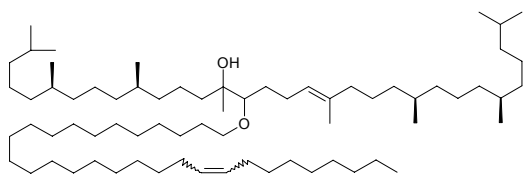
**13205 Lycopanero C1**

$C_{68}H_{134}O_2$ (983.82). Clear oil. **Source:** CONG LI ZAO *Botryococcus braunii*. **Ref:** 3964.

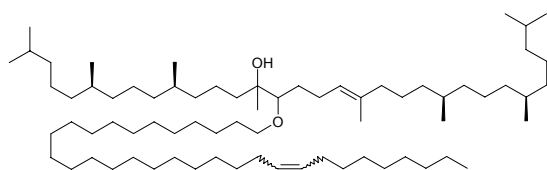


13206 Lycopanerol C₂

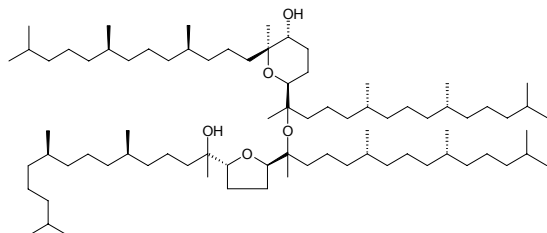
C₇₀H₁₃₈O₂ (1011.88). Clear oil. Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

**13207 Lycopanerol C₃**

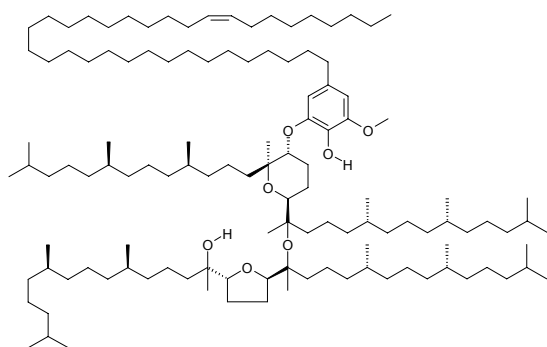
C₇₂H₁₄₂O₂ (1039.93). Clear oil. Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

**13208 Lycopanerol D**

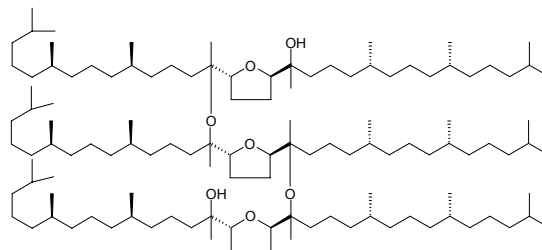
C₈₀H₁₅₈O₅ (1200.15). Clear oil, $[\alpha]_D^{20} = -1.7^\circ$ ($c = 7.5$, CHCl₃). Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

**13209 Lycopanerol E**

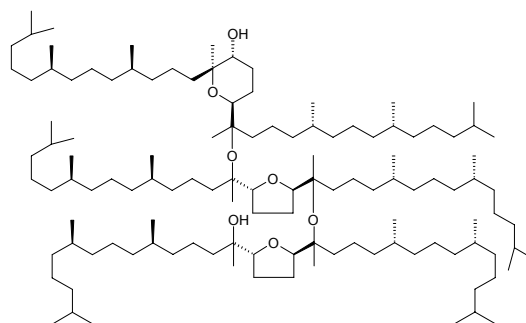
C₁₂₂H₂₃₂O₇ (1811.21). Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

**13210 Lycopanerol F**

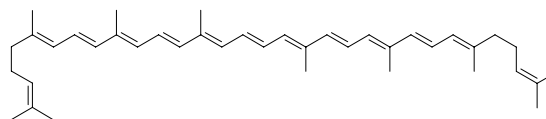
C₁₂₀H₂₃₆O₇ (1791.21). Clear oil, $[\alpha]_D^{20} = -2.4^\circ$ ($c = 5$, CHCl₃). Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

**13211 Lycopanerol G**

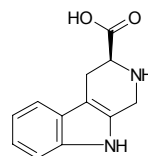
C₁₂₀H₂₃₆O₇ (1791.21). Clear oil, $[\alpha]_D^{20} = -7.4^\circ$ ($c = 6.3$, CHCl₃). Source: CONG LI ZAO *Botryococcus braunii*. Ref: 3964.

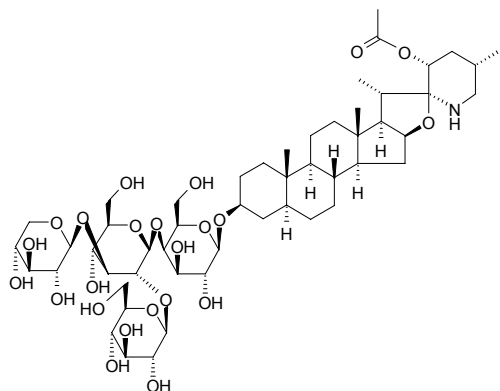
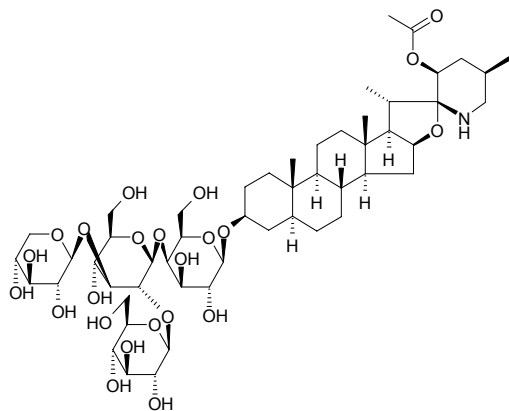
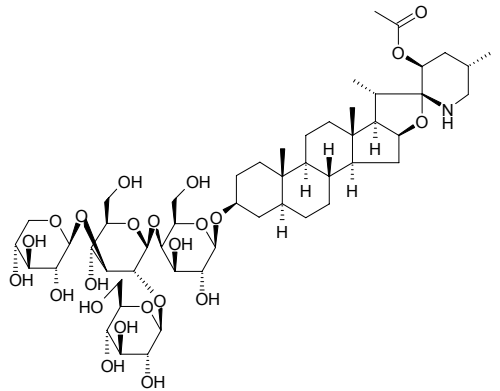
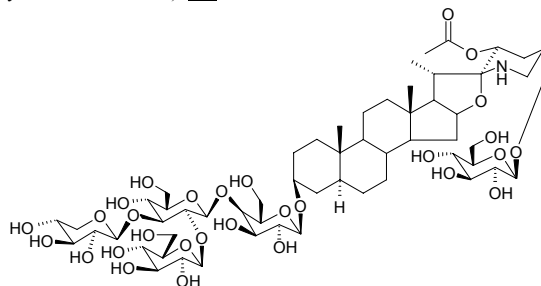
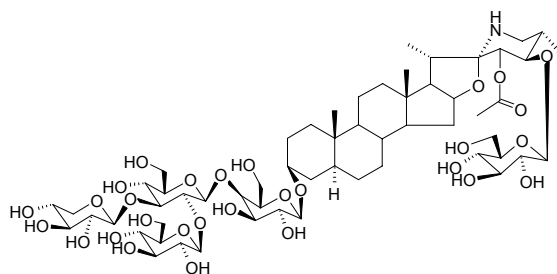
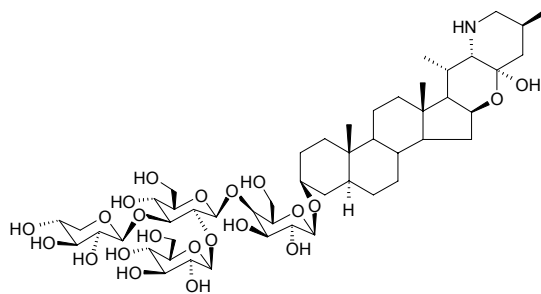
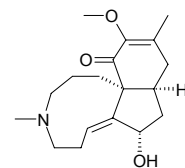
**13212 Lycopene**

[502-65-8] C₄₀H₅₆ (536.89). Pharm: Antioxidant (LDL oxidation inhibitor, free radical scavenger); cytotoxic (*in vitro*, *in vivo*); anti-atherosclerotic; used in treatment of sterilitas virilis (sterile male, orl, 2mg/d for three weeks, effective rate = 60%); antineoplastic (mus B6C3F1, bladder carcinoma). Source: FAN QIE *Lycopersicon esculentum*, JIN ZHAN JU *Calendula officinalis*, KU GUA *Momordica charantia*, NAN HE SHI *Daucus carota*, QUAN CHI QIANG WEI *Rosa canina*, RUI DIAN GAN LAN *Brassica rutabaga*, SHI DI *Diospyros kaki*, *Citrus* sp. Ref: 658, 1582, 1834, 1835, 1836, 1837, 1838, 1839, 1840.

**13213 Lycoperodine 1**

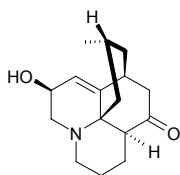
C₁₂H₁₂N₂O₂ (216.24). Pale yellow amorphous powder, $[\alpha]_D^{19} = -30.3^\circ$ ($c = 0.26$, MeOH). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.0003%fw). Ref: 3018.



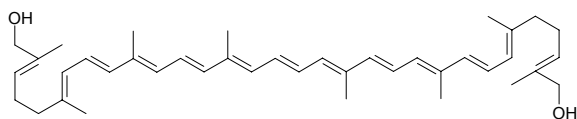
13214 Lycoperside A23*R*-Acetoxytomatine [23*R*-Acetoxytomatine] C₅₂H₈₅NO₂₃ (1092.25).Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.00005%fw). Ref: 3018.**13215 Lycoperside B**C₅₂H₈₅NO₂₃ (1092.25). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.00015%fw). Ref: 3018.**13216 Lycoperside C**C₅₂H₈₅NO₂₃ (1092.25). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.00045%fw). Ref: 3018.**13217 Lycoperside F**3-*O*-β-Lycotetraosyl-(23*R*)-23-acetoxy-27-hydroxy-27-*O*-β-*D*-glucopyranosyl tomatidine C₅₈H₉₅NO₂₉ (1270.39). White amorphous powder, [α]_D²⁹ = -38.5° (*c* = 0.80, MeOH). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.00013%fw). Ref: 3018.**13218 Lycoperside G**3-*O*-β-Lycotetraosyl-(23*S*,24*R*)-23-acetoxy-24-*O*-β-*D*-glucopyranosylsoladulidene-24-ol C₅₈H₉₅NO₂₉ (1270.39). White amorphous powder, [α]_D²⁰ = -44.1° (*c* = 0.68, MeOH). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.00011%fw). Ref: 3018.**13219 Lycoperside H**3-*O*-β-Lycotetraosyl-22-isopimpifolidine C₅₀H₈₃NO₂₂ (1050.21). White amorphous powder, [α]_D²⁰ = -29.8° (*c* = 1.20, MeOH). Source: FAN QIE *Lycopersicon esculentum* (ripe fruit: yield = 0.0006%fw). Ref: 3018.**13220 Lycophlegmarine**C₁₈H₂₇NO₃ (305.42). Source: MA WEI SHAN *Phlegmariusus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 660.

13221 Lycophlegmine

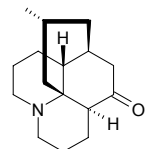
$C_{16}H_{23}NO_2$ (261.37). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 660.

**13222 Lycophyll**

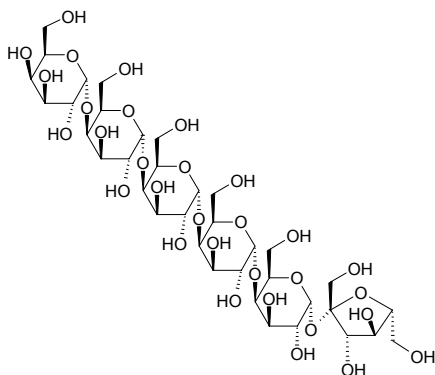
[19891-75-9] $C_{40}H_{56}O_2$ (568.89). mp 179°C. Source: FAN QIE *Lycopersicon esculentum*, QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 660, 1521.

**13223 Lycopodine**

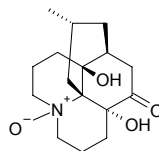
[466-61-5] $C_{16}H_{25}NO$ (247.38). mp 116°C, bp 125°C/0.2mmHg; $[\alpha]_D^{25} = -26^\circ$ (MeOH). Pharm: Uterine stimulant; paralysis (frog); promotes small intestinal motion (rbt, rat and gpg); treatment of dermatosis. Source: DONG BEI SHI SHAN *Huperzia miyoshiana*, GUO JIANG LONG *Lycopodium complanatum*, SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. Ref: 6, 658, 5412.

**13224 Lycopose**

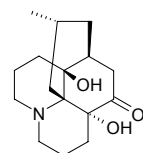
$C_{36}H_{62}O_{31}$ (990.88). mp 270°C. Source: ZE LAN GEN *Lycopus lucidus*, ZE LAN *Lycopus lucidus*. Ref: 6.

**13225 Lycoserramine F**

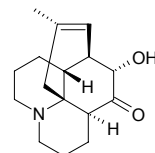
Miyoshianine A $C_{16}H_{25}NO_4$ (295.38). Colorless prisms, mp >300°C (MeOH–AcOEt), $[\alpha]_D^{24} = -15.2^\circ$ ($c = 0.06$, MeOH); colorless prisms (Me₂CO–CH₃OH), mp 216–218°C, $[\alpha]_D^{25} = -85^\circ$ ($c = 0.083$, CH₃OH). Source: DONG BEI SHI SHAN *Huperzia miyoshiana*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 5412, 4388.

**13226 Lycoserramine G**

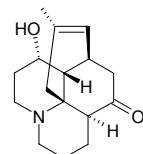
$C_{16}H_{23}NO_3$ (279.38). Colorless amorphous powder. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13227 Lycoserramine H**

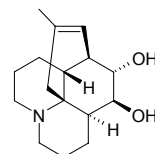
$C_{16}H_{23}NO_2$ (261.37). Colorless prisms, mp 227–228°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13228 Lycoserramine I**

$C_{16}H_{23}NO_2$ (261.37). Colorless amorphous powder. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

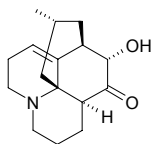
**13229 Lycoserramine J**

Miyoshianine B $C_{16}H_{25}NO_2$ (263.38). Colorless prisms (Me₂CO–CH₃OH), mp 264–266°C, $[\alpha]_D^{25} = -117^\circ$ ($c = 0.250$, CH₃OH); colorless solid, $[\alpha]_D^{22} = -67.7^\circ$ ($c = 0.11$, CHCl₃). Source: DONG BEI SHI SHAN *Huperzia miyoshiana*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388, 5412.

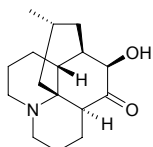


13230 Lycoposerramine K

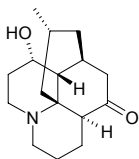
$C_{16}H_{23}NO_2$ (261.37). Colorless amorphous powder. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13231 Lycoposerramine L**

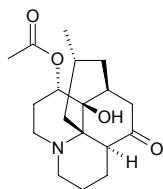
$C_{16}H_{25}NO_2$ (263.38). Yellowish amorphous powder. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13232 Lycoposerramine M**

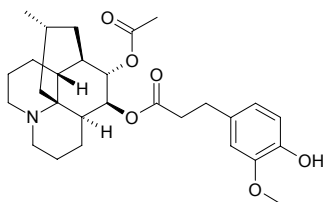
$C_{16}H_{25}NO_2$ (263.38). Colorless solid. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13233 Lycoposerramine N**

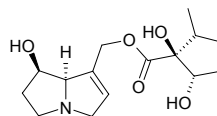
$C_{18}H_{27}NO_4$ (321.42). Colorless amorphous powder. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13234 Lycoposerramine O**

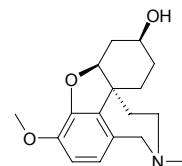
$C_{28}H_{39}NO_6$ (485.63). Colorless amorphous powder, $[\alpha]_D^{23} = -27.8^\circ$ ($c = 0.06$, $CHCl_3$). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**13235 Lycopsamine**

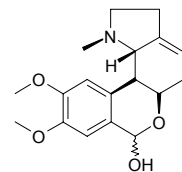
[10285-07-1] $C_{15}H_{25}NO_5$ (299.37). Pharm: Hepatotoxin. Source: E GUO XI MEN FEI CAO *Symphytum x uplandicum*, FU YE ZE LAN *Eupatorium compositifolium*, LIU LI JU *Borago officinalis*, SI SHI TIAN JIE CAI *Heliotropium steudneri*. Ref: 658.

**13236 Lycoramine**

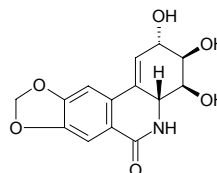
[21133-52-8] $C_{17}H_{23}NO_3$ (289.38). mp $121^\circ C$. Pharm: Cholinesterase inhibitor; LD_{50} (mus, orl) = 131mg/kg, (mus, sc) = 112mg/kg, (mus, ip) = 103mg/kg, (mus, iv) = 16.65mg/kg. Source: BAI SHUI XIAN *Narcissus papyraceus*, DA YI ZHI JIAN *Lycoris aurea*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, TIE SE JIAN *Lycoris sanguinea*. Ref: 4, 658.

**13237 Lycorenine**

[477-19-0] $C_{18}H_{23}NO_4$ (317.39). mp $198\text{--}200^\circ C$. Pharm: Insect antifeedant (*Eurema hecabe mandarina*); bidirectional action to heart (toad heart, *in vitro*, first stimulates and then inhibits); increases blood pressure (dog, iv); antihypertensive (anesthetic rat, iv); vasodilator (rbt ear, perfusion); smooth muscle stimulant (rbt small intestinal, *in vitro*); uterine stimulant (gpg and rbt, *in vivo* and *in vitro*); LD_{50} (mus, sc) = 270mg/kg. Source: DA YI ZHI JIAN *Lycoris aurea*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], XIA XUE PIAN LIAN *Leucjum aestivum*. Ref: 6, 658.

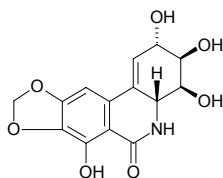
**13238 Lycoricidine**

Margetine [19622-83-4] $C_{14}H_{13}NO_6$ (291.26). mp $214.5\text{--}215.5^\circ C$. Pharm: Insect antifeedant (*Eurema hecabe mandarina*); cytotoxic (EAC cells); plant growth inhibitor. Source: SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], TIE SE JIAN *Lycoris sanguinea*. Ref: 5, 658.

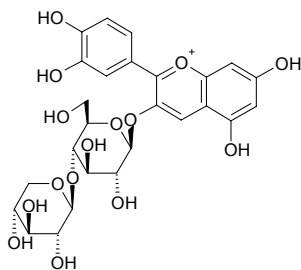


13239 Lycoricidinol

Narciclasine [29477-83-6] $C_{14}H_{13}NO_7$ (307.26). mp 260°C (dec). **Pharm:** Antibacterial (*Bacillus coli*, $IC_{50} = 5\mu\text{g/mL}$); antineoplastic (HeLa and EAC *in vivo*); insect antifeedant (larva of *Eurema hecabe mandarina*); prevents cell division, (inhibits mitosis by immediately stopping protein synthesis in eukaryotic cells); antiviral (inhibits biosynthesis of RNA in endomyocarditis virus); LD_{50} (mus) = 5mg/kg. **Source:** HUANG SHUI XIAN *Narcissus pseudonarcissus*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], TIE SE JIAN *Lycoris sanguinea*. **Ref:** 5, 658.

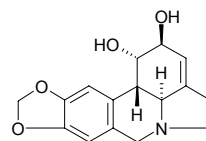
**13240 Lycoricyanin**

$C_{26}H_{29}O_{15}^+$ (581.51). **Source:** SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI MA TIAO *Polygonum thunbergii*. **Ref:** 660.

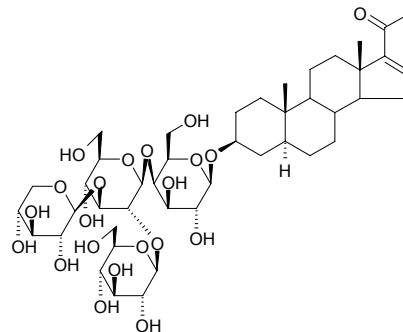
**13241 Lycorine**

Amarylline; Belamarine; Narcissine; Galanthidine [476-28-8] $C_{16}H_{17}NO_4$ (287.32). Colorless prismatic crystals (ethanol), mp 275–278°C (dec), $[\alpha]_D^{15} = -129^\circ$ ($c = 0.16$, 98% ethanol), slightly soluble in ethanol, chloroform, petroleum ether, almost insoluble in water.^[5507] **Pharm:** Cytotoxic (*in vitro*, inhibits a number of hmn tumor cell lines including LXFL529L, Molt4, HL-60, K562, U937, GXF251L, and CXF94L)^[5369]; cytotoxic (Meth-A cell, $ED_{50} = 0.3\mu\text{g/mL}$, control Adriamycin, $ED_{50} < 0.09\mu\text{g/mL}$; LLC cell, $ED_{50} = 0.5\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.1\mu\text{g/mL}$)^[4125]; antineoplastic (mus, *in vivo*, LLC tumor, number of mouse = 6, control tumor size = $(9089 \pm 545)\text{mm}^3$; dose = 10mg/(kg·d), tumor size = $(7321 \pm 587)\text{mm}^3$ (on day 19), T/C = 80.5%, $p < 0.05$; positive control Adriamycin, dose = 2mg/(kg·d), tumor size = $(3566 \pm 168)\text{mm}^3$, $p < 0.001$); antineoplastic (mus, ascites lymphoma and sarcoma S37, rat lymphatic sarcoma and hepatocarcinoma, HeLa, S_{180} , EAC, ascites liver cancer and Kichita sarcoma); antiviral (poliomyelitis virus, Cocksackie virus and herpes virus A); inhibits mitosis of plant cells; uterine stimulant (rat, gpg and rbt, *in vivo* and *in vitro*, slow and persistent action); emetic; AChE inhibitor ($IC_{50} = (213 \pm 1)\mu\text{mol/L}$, control Galanthamine, $IC_{50} = (1.9 \pm 0.2)\mu\text{mol/L}$)^[4952]; antiretroviral and cytotoxic ($ID_{50} = 0.4\mu\text{g/mL}$, $TC_{50} = 0.75\mu\text{g/mL}$, $TI_{50} (TC_{50}/ID_{50}) = 1.9$)^[5026]; antimalarial (*Plasmodium falciparum* strain NF-54, stage IEF, $IC_{50} =$

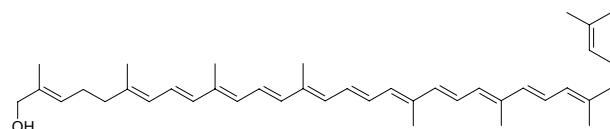
$0.34\mu\text{g/mL}$)^[4000]; antiplasmodial (strain D10, $IC_{50} = 0.6\mu\text{g/mL}$, control Hamayne, $IC_{50} = 15.6\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.002\mu\text{g/mL}$; strain FAC8, $IC_{50} = 0.7\mu\text{g/mL}$, Hamayne, $IC_{50} = 18.2\mu\text{g/mL}$, Chloroquine, $IC_{50} = 0.01\mu\text{g/mL}$; cytotoxic, BL6, $IC_{50} = 1.8\mu\text{g/mL}$, Hamayne, $IC_{50} = 9.4\mu\text{g/mL}$, Chloroquine, $IC_{50} = 20.9\mu\text{g/mL}$, Daunomycin, $IC_{50} = 0.43\mu\text{g/mL}$)^[3931]; antifungal (*Candida albicans*, IZD = 40mm, MIC = $39\mu\text{g/mL}$)^[3829]; toxin (in genus *Narcissus* plants); LD_{50} (dog) = 41mg/kg, (mouse, orl) = 230mg/kg, (mouse, sc) = 145mg/kg, (mouse, ip) = 117mg/kg, (mouse, iv) = 123mg/kg. **Source:** DA YI ZHI JIAN *Lycoris aurea*, GAN FENG CAO *Zephyranthes candida*, JUN ZI LAN *Clivia miniata*, RI BEN WEN SHU LAN *Crinum asiaticum* var. *japonicum* (bulb), SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI GUI JIAO YE *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancreatium littoralis*], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*, WEN SHU LAN *Crinum asiaticum* var. *sinicum*, GU TING HUA *Amaryllis belladonna* (bulb)^[3829], GUAN MU WEN SHU LAN *Crinum macowanii* (bulb), XI NAN WEN SHU LAN *Crinum latifolium*^[5507], XIAN MAO *Curculigo orchoides*, XUE PIAN LIAN *Leucojum vernum* (bulb), *Ammocharis coranica* (bulb). **Ref:** 4, 658, 3829, 3931, 3952, 4000, 4125, 4952, 5026, 5369, 5501, 5507.

**13242 3-O-β-Lycotetraosyl 3β-hydroxy-5α-pregn-16-en-20-one**

$C_{44}H_{70}O_{21}$ (935.04). **Source:** YING TAO FAN QIE *Lycopersicon esculentum* var. *cerasiforme* (fruit). **Ref:** 4463.

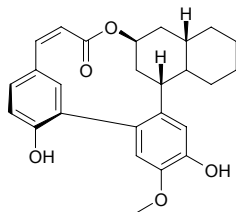
**13243 Lycoxanthin**

[19891-74-8] $C_{40}H_{56}O$ (552.89). mp 168°C. **Pharm:** Pigment. **Source:** FAN QIE *Lycopersicon esculentum*, JIANG GUO SHU YU *Tamus communis*, QIAN NIAN BU LAN XIN *Solanum dulcamara*. **Ref:** 6, 658.

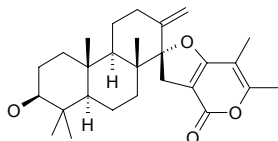


13244 Lyfoline

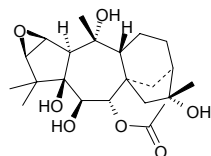
$C_{26}H_{28}O_5$ (420.51). Source: DAN SUI SHI SONG *Lycopodium annotinum*. Ref: 660.

**13245 Lygodinolide**

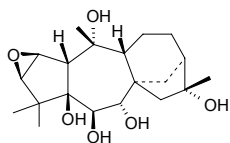
$C_{27}H_{38}O_4$ (426.60). Source: QU ZHOU HAI JIN SHA *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*]. Ref: 660.

**13246 Lyonol A**

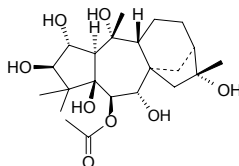
[31136-61-5] $C_{22}H_{34}O_7$ (410.51). mp 250~253°C. Pharm: Antihypertensive (rat, 2mg/kg iv); spasmogenic (produces spasm in rbt, iv, leads to Parkinson's disease in sheep orl, causes muscular tremor in mus, ip, causes ileal contraction in gpg iv *in vivo*); used in treatment of tinea and sarcoptidosis (main effective component in *Lyonia ovalifolia* LI MU); LD₅₀ (mus, ip) = 3.01mg/kg. Source: XIAO GUO NAN ZHU *Lyonia ovalifolia* var. *elliptica*, LI MU *Lyonia ovalifolia*. Ref: 6, 658.

**13247 Lyonol B**

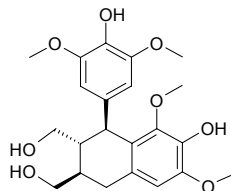
[28894-74-8] $C_{20}H_{32}O_6$ (368.47). mp 280~283°C. Pharm: Used in treatment of tinea and sarcoptidosis (main effective component in *Lyonia ovalifolia* LI MU); LD₅₀ (mus, ip) = 0.61mg/kg. Source: XIAO GUO NAN ZHU *Lyonia ovalifolia* var. *elliptica*, LI MU *Lyonia ovalifolia*. Ref: 6, 658.

**13248 Lyonol D**

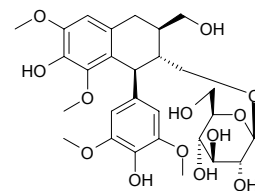
$C_{22}H_{36}O_8$ (428.53). Source: LI MU *Lyonia ovalifolia*, XIAO GUO NAN ZHU *Lyonia ovalifolia* var. *elliptica*. Ref: 660.

**13249 (+)-Lyoniresinol**

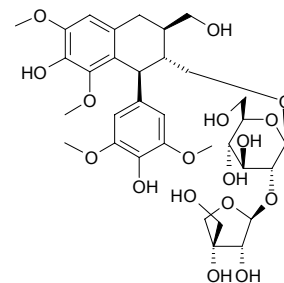
$C_{22}H_{28}O_8$ (420.46). Pharm: Antioxidant (DPPH scavenger, for 40μmol/L DPPH radical, SC₅₀ = 6.6μmol/L). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**13250 (+)-Lyoniresinol-2α-O-β-D-glucopyranoside (D₄)**

(+)-9-*O*-β-*D*-Glucopyranosyl lyoniresinol $C_{28}H_{38}O_{13}$ (582.61). White granular crystals, mp 119~120°C; white amorphous powder (MeOH), [α]_D = +24.8° (*c* = 0.1, MeOH). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = (42.6±3.1)μmol/L, control BHT, IC₅₀ = (15.3±0.6)μmol/L; superoxide radical inhibitor, IC₅₀ > 100μmol/L, control BHT, IC₅₀ = (48.9±2.5)μmol/L; lipid peroxidation scavenger, IC₅₀ = (39.1±3.1)μmol/L, control BHT, IC₅₀ = (0.11±0.02)μmol/L)^[4402]; anti-HSV-1 inactive (EC₅₀ > 172μmol/L)^[2577]. Source: BAI ZHU SHU *Gaultheria leucocarpa* var. *cumingiana* (root: content = 0.142%)^[5508], DIAN BAI ZHU SHU *Gaultheria yunnanensis* (root: content scope of 3 origins = 0.022%~0.082%, mean content = 0.047%)^[5508], FANG XIANG BAI ZHU *Gaultheria fragrantissima* (root: content = 0.356%)^[5508], MA LAN GEN *Baphicanthus cusia* [Syn. *Strobilanthes cusia*], MAO MAI LIAO *Pleuropterus ciliinervis* (root), SI LIE BAI ZHU *Gaultheria tetramera* (root: content = 0.061%)^[5508], WEI YE BAI ZHU *Gaultheria griffithiana* (root: content = 0.014%)^[5508]. Ref: 664, 2577, 4402, 5508.

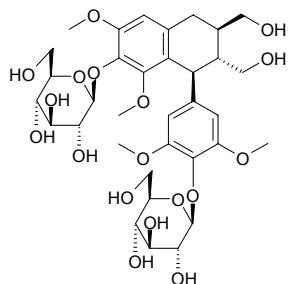
**13251 (+)-Lyoniresinol-3α-O-β-D-apiofuranosyl-(1→2)-β-D-glucopyranoside**

$C_{33}H_{46}O_{17}$ (714.72). White amorphous powder, [α]_D = -2.5° (MeOH). Pharm: Anti-HSV-1 inactive (EC₅₀ > 172μmol/L). Source: MA LAN GEN *Baphicanthus cusia* [Syn. *Strobilanthes cusia*]. Ref: 2577.

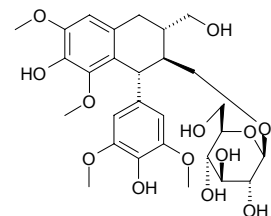


13252 (+)-Lyoniresinol-4,4'-bis-O-β-D-glucopyranoside

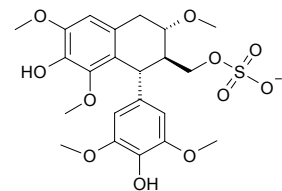
$C_{34}H_{48}O_{18}$ (744.75). Colorless gummy solid, $[\alpha]_D^{25} = +18.2^\circ$ ($c = 0.21$, MeOH). **Pharm:** Lipoxygenase inhibitor (lipoxygenase (1.13.11.12) type I-B, $IC_{50} = (41.5 \pm 1.7) \mu\text{mol/L}$, control Baicalein, $IC_{50} = (22.6 \pm 0.1) \mu\text{mol/L}$). **Source:** YI HUA MU LAN *Indigofera heterantha* (Whole plant). **Ref:** 4442.

**13253 (-)-Lyoniresinol-3α-O-β-D-glucopyranoside**

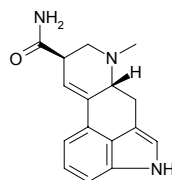
$C_{28}H_{38}O_{13}$ (582.61). White amorphous powder (MeOH), $[\alpha]_D = -23.4^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (45.7 \pm 4.0) \mu\text{mol/L}$, control BHT, $IC_{50} = (15.3 \pm 0.6) \mu\text{mol/L}$; superoxide radical inhibitor, $IC_{50} > 100 \mu\text{mol/L}$, control BHT, $IC_{50} = (48.9 \pm 2.5) \mu\text{mol/L}$; lipid peroxidation scavenger, $IC_{50} = (37.4 \pm 2.1) \mu\text{mol/L}$, control BHT, $IC_{50} = (0.11 \pm 0.02) \mu\text{mol/L}$). **Source:** MAO MAI LIAO *Pleuropterus ciliinervis* (root). **Ref:** 4402.

**13254 (-)-Lyoniresinol-2a-sulfate**

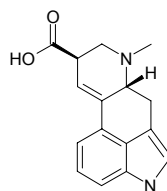
(-)-1R-3-Hydroxymethyl-1-(4'-hydroxy-3',5'-dimethoxyphenyl)-7-hydroxy-6,8-dimethoxy-1,2,3,4-tetrahydro-2-naphthalenylmethanol sulfate $C_{22}H_{27}O_{11}S$ (499.52). Amorphous powder, $[\alpha]_D^{25} = -17.0^\circ$ ($c = 0.13$, MeOH). **Source:** HU ZHANG *Polygonum cuspidatum*. **Ref:** 4186.

**13255 Lysergamide**

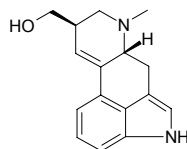
$C_{16}H_{17}N_3O$ (267.33). Prismatic crystals (methanol), mp 242°C (dec). **Pharm:** 5-HT inhibitor; hallucinogen; cholinesterase inhibitor (hmn serum); CNS stimulant (causes mania); toxin (embryo of gravid mus). **Source:** QING ZI QIAN NIU *Ipomoea violacea*, SAN SE QIAN NIU *Ipomoea tricolor*, YIN YE SHU *Ipomoea argyrophylla*. **Ref:** 658.

**13256 Lysergic acid**

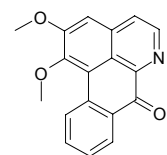
$C_{16}H_{16}N_2O_2$ (268.32). **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 660.

**13257 Lysergol**

[602-85-7] $C_{16}H_{18}N_2O$ (254.33). **Source:** QIAN NIU ZI *Pharbitis nil*. **Ref:** 6.

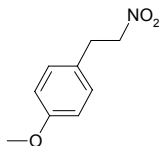
**13258 Lysicamine**

[15444-20-9] $C_{18}H_{13}NO_3$ (291.31). **Source:** BEI MA DOU LING GEN *Aristolochia contorta*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*, TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00010%fw)^[4686]. **Ref:** 583, 660, 4686.

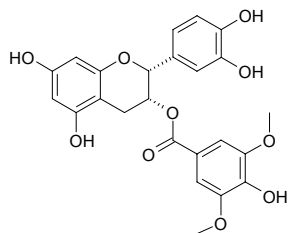


13259 Lysichitalexin

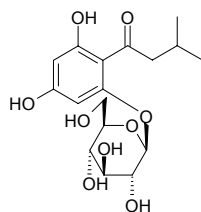
2-(4-Methoxyphenyl)-1-nitroethane C₉H₁₁NO₃ (181.19). Pale yellow oil. **Pharm:** Antifungal (TLC, *Candida albicans*, 31.4μg/cm², IZD = 0mm; *Fusarium oxysporum*, 31.4μg/cm², IZD = 9mm, 15.7μg/cm², IZD = 9mm, 7.9μg/cm², slight inhibition; *Cladosporium herbarum*, 31.4μg/cm², IZD < 9mm, 15.7μg/cm², IZD < 9mm, 7.9μg/cm², slight inhibition); antibacterial inactive (TLC, *Bacillus subtilis*, *Staphylococcus aureus*, *Escherichia coli*, 31.4μg/cm²). **Source:** MEI ZHOU GUAN YIN LIAN *Lysichitum americanum* (leaf). **Ref:** 3897.

**13260 Lysidicichin**

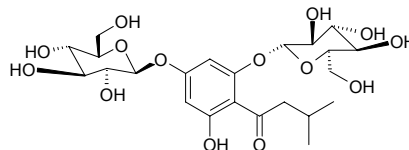
C₂₄H₂₂O₁₀ (470.44). Yellow powder, mp 138~141°C; [α]_D²⁵ = -173.1° (c = 0.5, C₂H₅OH). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin (Indo) and N¹⁰-L-nitroarginine (L-NA) at 10μmol/L Ach, 10μmol/L, relaxation = (39±1)%, control Sodium nitroprusside, relaxation = (109±5)%). **Source:** YI HUA *Lysidice rhodostegia* (root). **Ref:** 4086.

**13261 Lysidiside A**

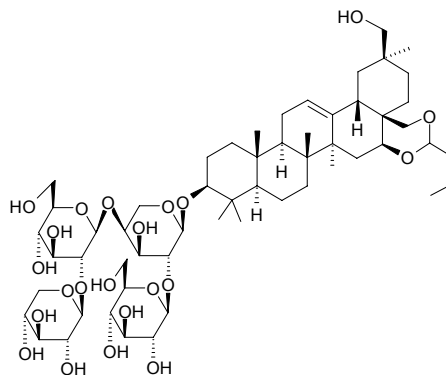
2-β-D-Glucopyranosyloxy-4,6-dihydroxyisovalerophenone; 1-[(3-Methylbutanoyl)phloroglucynyl]-β-D-glucopyranoside C₁₇H₂₄O₉ (372.38). Light yellow amorphous powder, mp 112~115°C; [α]_D²⁵ = -63.48° (c = 0.1, Me₂CO); [α]_D²⁶ = -55° (c = 0.14, MeOH); colorless gummy solid, [α]_D²⁵ = -62.2° (c = 0.11, MeOH). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin (Indo) and N¹⁰-L-nitroarginine (L-NA) at 10μmol/L Ach, 10μmol/L, relaxation = (78±1)%, control Sodium nitroprusside, relaxation = (109±5)%^[4086]; CYP3A4 inhibitor (hmn CYP3A4, enzyme activity was monitored by nifedipine oxidation, IC₅₀ = 120μmol/L^[4778]; lipoxygenase inhibitor (lipoxygenase (1.13.11.12) type I-B, IC₅₀ = (45.5±0.3)μmol/L, control Baicalein, IC₅₀ = (22.6±0.1)μmol/L^[4442]). **Source:** CAO MEI *Fragaria ananassa* (fruit: yield = 0.00013%), YI HUA *Lysidice rhodostegia* (root), YI HUA MU LAN *Indigofera heteranthazha* (Whole plant). **Ref:** 4086, 4442, 4778.

**13262 Lysidiside B**

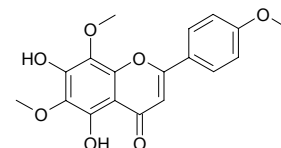
C₂₃H₃₄O₁₄ (534.52). Yellow amorphous powder, mp 142~144°C; [α]_D²⁵ = -86.0° (c = 0.3, Me₂CO). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin (Indo) and N¹⁰-L-nitroarginine (L-NA) at 10μmol/L Ach, 10μmol/L, relaxation = (66±5)%, control Sodium nitroprusside, relaxation = (109±5)%). **Source:** YI HUA *Lysidice rhodostegia* (root). **Ref:** 4086.

**13263 Lysimachoside**

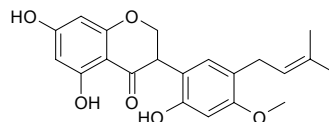
C₅₆H₉₂O₂₂ (1117.34). White powder. **Source:** JU HUA GUO LU HUANG *Lysimachia congestiflora*. **Ref:** 834.

**13264 Lysionotin**

Nevadensin [10176-66-6] C₁₈H₁₆O₇ (344.32). mp 195~196°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, 20μg/mL, *in vitro* and *in vivo*); antitussive (dispels phlegm); antihypertensive (dog, iv); treatment of bronchitis, scrofula, pulmonary tuberculosis and basal tuberculosis. **Source:** AI XIANG RI KUI *Helianthus pumilus*, CI SAN JIA *Acanthopanax trifoliatum*, JIAO ZHI ZI *Gardenia gummifera*, SHI DIAO LAN *Lysionotus pauciflorus*, XIANG RI KUI YE *Helianthus annuus*, ZHANG NAO LUO LE *Ocimum canum*. **Ref:** 4, 658, 660.

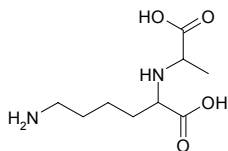
**13265 Lysisteisoflavanone**

5,7,2'-Trihydroxy-4'-methoxy-5'-(3''-methylbut-2''-enyl)isoflavanone C₂₁H₂₂O₆ (370.41). Dark yellow amorphous solid, mp 98°C, [α]_D²⁵ = 0.0° (c = 1.0, MeOH). **Source:** AI JI ZAI PEI CI TONG *Erythrina lysistemon*. **Ref:** 1971.

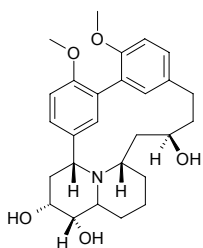


13266 Lysopine

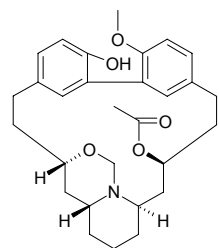
[34522-31-1] $C_9H_{18}N_2O_4$ (218.25). Source: DI JIN *Parthenocissus tricuspidata*. Ref: 6.

**13267 Lythracine I**

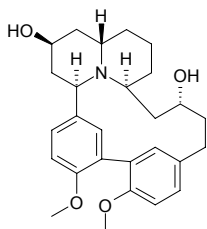
$C_{27}H_{35}NO_5$ (453.58). Source: RI BEN QIAN QU CAI *Lythrum anceps* (the compound was isolated from the plant by Japanese scientists in 1971). Ref: 5505.

**13268 Lythramine**

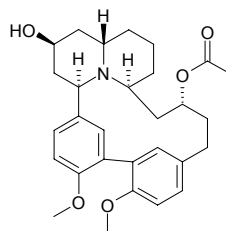
$C_{27}H_{37}NO_5$ (479.62). Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

**13269 Lythrancepine I**

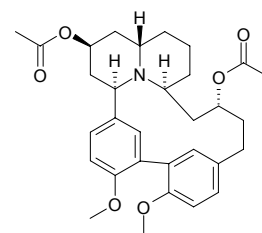
[32209-75-9] $C_{27}H_{35}NO_4$ (437.58). mp 149~151°C. Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

**13270 Lythrancepine II**

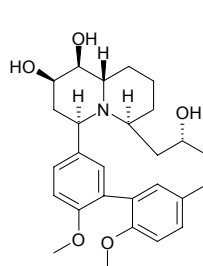
[32209-76-0] $C_{29}H_{37}NO_5$ (479.62). mp 187~189°C. Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

**13271 Lythrancepine III**

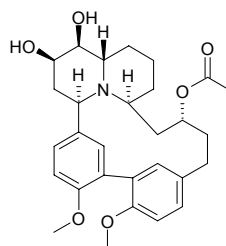
[32209-77-1] $C_{31}H_{39}NO_6$ (521.66). mp 174~178°C. Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

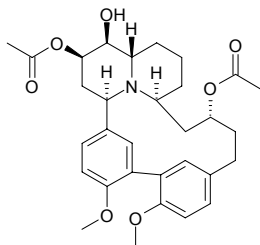
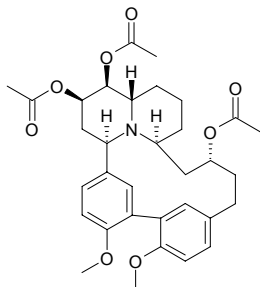
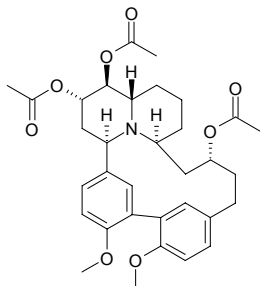
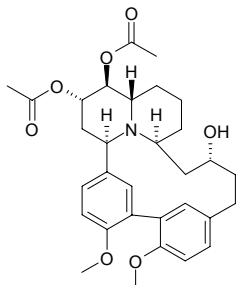
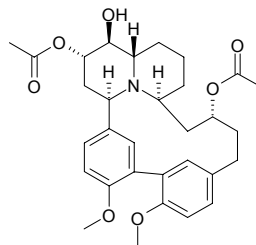
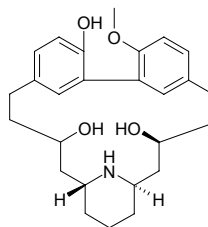
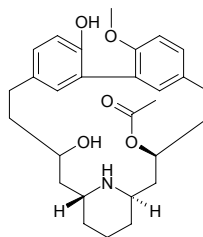
**13272 Lythracine I**

[32209-71-5] $C_{27}H_{35}NO_5$ (453.58). Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

**13273 Lythrancepine II**

[32209-72-6] $C_{29}H_{37}NO_6$ (495.62). mp 274~275°C. Source: QIAN QU CAI *Lythrum salicaria*. Ref: 6.

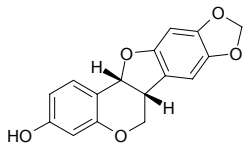


13274 Lythrancine III[32209-73-3] C₃₁H₃₉NO₇ (537.66). mp 134~136°C. Source: QIAN QU CAI*Lythrum salicaria*. Ref: 6.**13275 Lythrancine IV**[32209-74-8] C₃₃H₄₁NO₈ (579.70). mp 237~238°C. Source: QIAN QU CAI*Lythrum salicaria*. Ref: 6.**13276 Lythrancine V**[40179-98-4] C₃₃H₄₁NO₈ (579.70). mp 133~134°C. Source: QIAN QU CAI*Lythrum salicaria*. Ref: 6.**13277 Lythrancine VI**[40175-99-5] C₃₁H₃₉NO₇ (537.66). Source: QIAN QU CAI *Lythrum salicaria*.Ref: 6.**13278 Lythrancine VII**[40180-00-5] C₃₁H₃₉NO₇ (537.66). Source: QIAN QU CAI *Lythrum salicaria*.Ref: 6.**13279 Lythranidine**[17812-78-1] C₂₆H₃₅NO₄ (425.57). Source: QIAN QU CAI *Lythrum salicaria*.Ref: 6.**13280 Lythranine**[32420-54-5] C₂₈H₃₇NO₅ (467.61). Source: QIAN QU CAI *Lythrum salicaria*.Ref: 6.

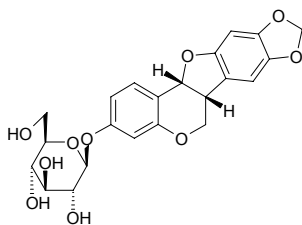
M

13281 Maackiain

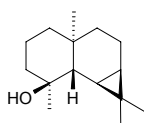
[2035-15-6] C₁₆H₁₂O₅ (284.27). mp (–) 195–196°C, (±) 199–200°C. **Pharm.**: Antifungal (EC = 10 μg/mL); hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μmol/L, InRt = (35.2±3.0)%, weak, control Silybin, 100 μmol/L, InRt = (77.0±5.5%)^[4095]); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 512 μg/mL, Vancomycin, MIC = 0.5 μg/mL; MRSA SK1, MIC > 512 μg/mL, Vancomycin, MIC = 1.0 μg/mL)^[3810]; increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 0.4 mg/kg, 8.3 mmHg)^[3810]. **Source**: CHAO XIAN HUAI *Maackia amurensis*, GUANG BU DING GONG TENG *Erycibe expansa*, HUAI GEN *Sophora japonica* (the compound was isolated from the plant by Shoji Kuwada, et al. in 1962)^[5505], KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = 0.01%–0.15%, mean content = 0.06%)^[5508], LING NAN HUAI SHU *Sophora tomentosa*, PAN YUAN YU TENG *Derris scandens* (stem), SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], WU CI KE YA SHU *Andira inermis*, *Glycyrrhiza* sp. **Ref.**: 6, 658, 2431, 3810, 4095, 5505, 5508.

**13282 α-Maackiain-β-D-glucoside**

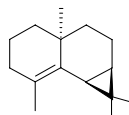
Trifolirhizin [6807-83-6] C₂₂H₂₂O₁₀ (446.41). mp 202–204°C (dec); mp 142–144°C (dec). **Source**: HONG CHE ZHOU CAO *Trifolium pratense*, HUAI GEN *Sophora japonica*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = 0.04%–0.28%, mean content = 0.13%)^[5508], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref.**: 5, 6, 5508.

**13283 Maaliol**

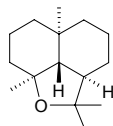
Maaliol [527-90-2] C₁₅H₂₆O (222.37). Crystals (EtOH), mp 103.5–105.0°C, [α]_D = +18.4° (c = 1.1, EtOH). **Source**: SHI YE GAN SONG *Nardostachys jatamansi*, XIE CAO *Valeriana officinalis*, ZHI ZHU XIANG *Valeriana jatamansi* [Syn. *Valeriana wallichii*]. **Ref.**: 6, 1521.

**13284 β-Maaliene**

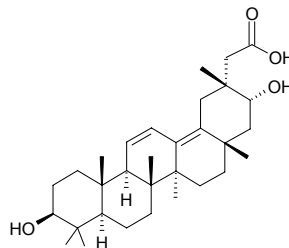
C₁₅H₂₄ (204.36). **Source**: CANG ZHU *Atractylodes lancea*, HUANG HUA HAO *Artemisia annua*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref.**: 2, 660.

**13285 (+)-Maalioid**

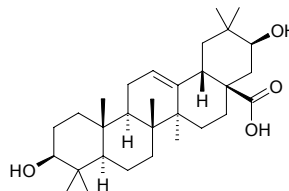
C₁₅H₂₆O (222.37). mp 66°C, [α]_D = +33.3° (c = 4, CHCl₃). **Source**: ZHI ZHU XIANG *Valeriana jatamansi* [Syn. *Valeriana wallichii*]. **Ref.**: 1521.

**13286 Macedonic acid**

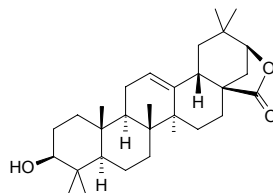
[39022-00-9] C₃₁H₄₈O₄ (484.73). mp 340–343°C. **Source**: CI GUO GAN CAO *Glycyrrhiza pallidiflora*, YUN NAN GAN CAO *Glycyrrhiza yunnanensis*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref.**: 660, 1222, 1521.

**13287 Machaerinic acid**

C₃₀H₄₈O₄ (472.71). **Source**: JIN ZHAN JU *Calendula officinalis* (flower). **Ref.**: 3551.

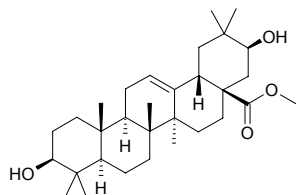
**13288 Machaerinic acid lactone**

C₃₀H₄₆O₃ (454.70). **Source**: HE HUAN PI *Albizia julibrissin*, SI GUA *Luffa cylindrica*. **Ref.**: 1223, 1224.

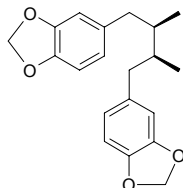


13289 Machaerinic acid methyl ester

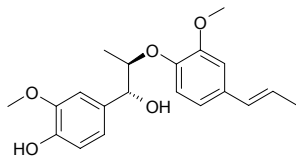
$C_{31}H_{50}O_4$ (486.74). Source: HE HUAN PI *Albizia julibrissin*. Ref: 1225.

**13290 Machilin A**

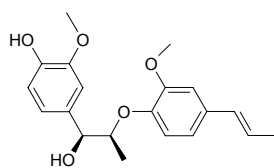
$C_{20}H_{22}O_4$ (326.40). Pharm: Neuroprotective (glutamate-induced neurotoxicity in primary cultures of cortical cells, 0.1 $\mu\text{mol/L}$, protection rate = (15.1 \pm 4.1)%), MK-801: 1.0 $\mu\text{mol/L}$, protection rate = (83.6 \pm 2.0)%, $p < 0.001$, CNQX: 1.0 $\mu\text{mol/L}$, protection rate = (70.5 \pm 1.5)%, $p < 0.001$). Source: HONG NAN PI *Machilus thunbergii*. Ref: 4927.

**13291 Machilin C**

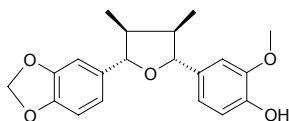
$C_{20}H_{24}O_5$ (344.41). Colorless amorphous, $[\alpha]_D^{25} = -30^\circ$ ($c = 0.07$, CHCl_3). Pharm: Antioxidant (DPPH scavenger). Source: FENG CHAO CAO *Leucas aspera* (whole herb). Ref: 4344.

**13292 Machilin D**

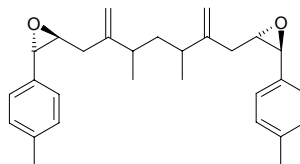
$C_{20}H_{24}O_5$ (344.41). Colorless oil, $[\alpha]_D^{25} = -88^\circ$ ($c = 4.0$, CHCl_3); colorless oil, $[\alpha]_D = -160^\circ$ ($c = 0.7$, CHCl_3). Pharm: Antioxidant (*in vitro*, low-density lipoprotein peroxidation, $\text{IC}_{50} = 2.9 \mu\text{mol/L}$; control Probucol, $\text{IC}_{50} = 1.3 \mu\text{mol/L}$)^[3096]. Source: SAN BAI CAO *Saururus chinensis*. (underground part). Ref: 3096, 4122.

**13293 Machilin F**

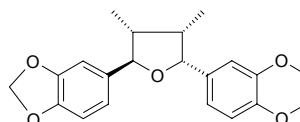
[114488-90-3] $C_{20}H_{22}O_5$ (342.40). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $\text{IC}_{50} = 85.9 \mu\text{mol/L}$, control Quercetin, $\text{IC}_{50} = 26.8 \mu\text{mol/L}$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HONG NAN PI *Machilus thunbergii*. Ref: 1521, 2537.

**13294 Machillene**

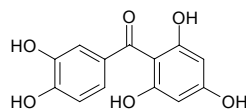
$C_{29}H_{36}O_2$ (416.61). Colorless oil, $[\alpha]_D^{25} = +22.2^\circ$ ($c = 0.094$, CHCl_3). Pharm: Cytotoxic (*in vitro*, 20 $\mu\text{g/mL}$, NUGC-3 cell line, survival percent = 0%, HONE-1 cancer cell line, survival percent = 5%). Source: TAI WAN RUI FANG RUN NAN *Machilus zuihoensis* (stem wood). Ref: 5287.

**13295 (-)-Machilusin**

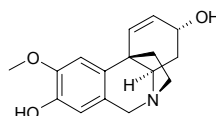
[61989-57-9] $C_{21}H_{24}O_5$ (356.42). Pharm: NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $\text{IC}_{50} = 39.2 \mu\text{mol/L}$, control Quercetin, $\text{IC}_{50} = 26.8 \mu\text{mol/L}$)^[2537]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], RI BEN NAN *Machilus japonica*. Ref: 1521, 2537.

**13296 Maclurin**

2,3',4,4',6-Pentahydroxy benzophenone [519-34-6] $C_{13}H_{10}O_6$ (262.22). Yellowish prisms (H_2O), mp 220–222°C. Pharm: Cytotoxic (BST, $\text{LD}_{50} = 43.1 \mu\text{mol/L}$; control Berberine, $\text{LD}_{50} = 67 \mu\text{mol/L}$); antioxidant (DPPH scavenger, $\text{IC}_{50} = 5.3 \mu\text{mol/L}$; control Catechin, $\text{IC}_{50} = 2.53 \mu\text{mol/L}$)^[4708]. Source: DAO NIAN ZI *Garcinia mangostana*, JIA HONG SHU *Laguncularia racemosa*, SANG YE *Morus alba*, SANG ZHI *Morus alba*, SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.000083%_{dw})^[4708], HUANG YAN MU *Chlorophora tinctoria*, *Acacia* sp. Ref: 6, 1521, 4708.

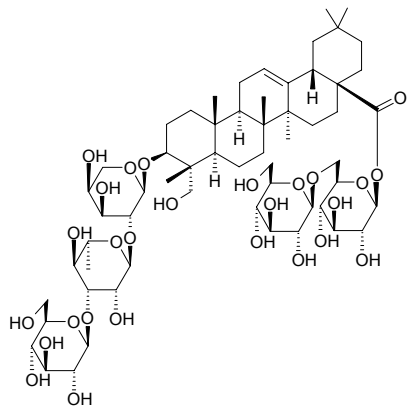
**13297 Macowine**

$C_{16}H_{19}NO_3$ (273.33). mp 115–117°C, $[\alpha]_D^{20} = -34^\circ$ ($c = 0.235$, CHCl_3). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense* strain STIB-900, stage trypomastigotes); antimalarial inactive (*Plasmodium falciparum* strain NF-54, stage IEF). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

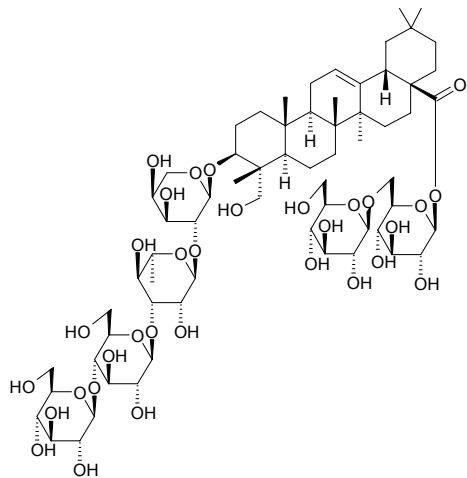


13298 Macranthoidin A

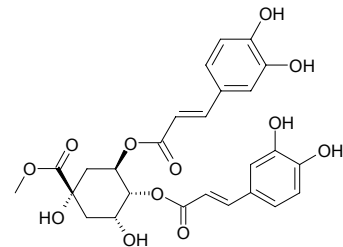
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₅₉H₉₆O₂₇ (1237.41). White clustered crystals, mp 229~232°C, $[\alpha]_D^{16} = -12.0^\circ$ ($c = 3.2$, MeOH); white granular Crystals (methanol), mp 218~220°C, $[\alpha]_D^{21} = -3.3^\circ$ ($c = 0.3$, pyridine). **Source:** CHUAN XU DUAN *Dipsacus asperoides*, JIN YIN HUA *Lonicera japonica*, HUI ZHAN MAO REN DONG *Lonicera macranthoides*. **Ref:** 211, 263, 638.

**13299 Macranthoidin B**

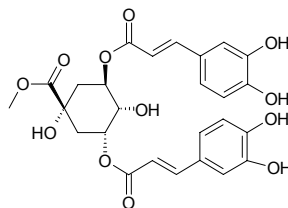
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-hederagenin-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester C₆₅H₁₀₆O₃₂ (1399.55). White acicular crystals, mp 230~233°C, $[\alpha]_D^{22} = -13.4^\circ$ ($c = 1.5$, MeOH); white powder, mp 223~225°C. **Source:** HUI ZHAN MAO REN DONG *Lonicera macranthoides*, JIN YIN HUA *Lonicera japonica*. **Ref:** 263, 638, 895.

**13300 Macranthoin F**

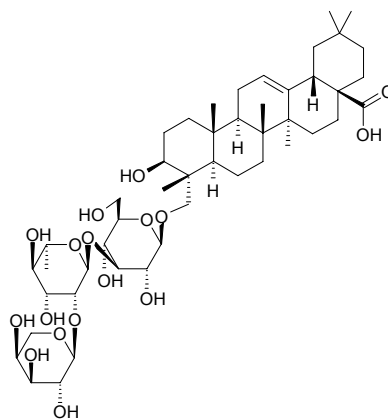
C₂₆H₂₆O₁₂ (530.49). Yellowish powder, mp 115~116°C. **Source:** HUI ZHAN MAO REN DONG *Lonicera macranthoides*. **Ref:** 311.

**13301 Macranthoin G**

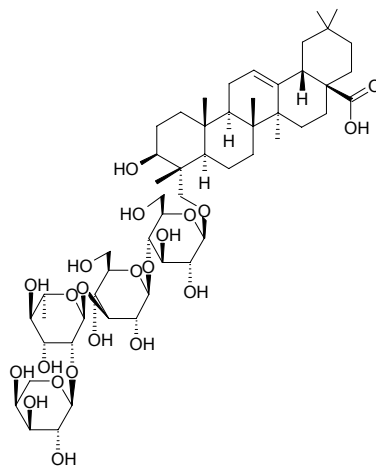
C₂₆H₂₆O₁₂ (530.49). Yellowish powder, mp 123~124°C. **Source:** HUI ZHAN MAO REN DONG *Lonicera macranthoides*. **Ref:** 311.

**13302 Macranthoside A**

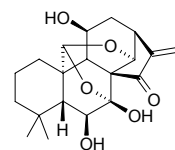
C₄₇H₇₆O₁₇ (913.12). **Source:** JIN YIN HUA *Lonicera japonica*. **Ref:** 638.

**13303 Macranthoside B**

C₅₃H₈₆O₂₂ (1075.26). **Source:** JIN YIN HUA *Lonicera japonica*. **Ref:** 638.

**13304 Macrocalin B**

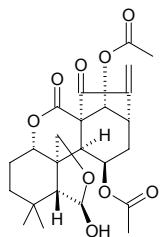
C₂₀H₂₆O₆ (362.43). mp 208~210°C, $[\alpha]_D^{12.5} = -42.5^\circ$ ($c = 1.0$, C₅H₅N). **Source:** DA E XIANG CHA CAI *Isodon macrocalyx*. **Ref:** 4067.



13305 Macrocalyxin A (Macrocalin A)

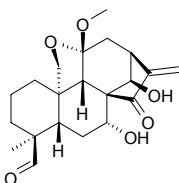
$C_{24}H_{30}O_9$ (462.50). mp 316–318°C, $[\alpha]_D^{26} = -189.97^\circ$ ($c = 0.5$, $CHCl_3$).

Source: DA E XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13306 Macrocalyxin B**

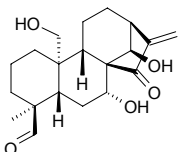
$C_{21}H_{28}O_6$ (376.45). mp > 300°C, $[\alpha]_D^{22} = -62.8^\circ$ ($c = 0.07$, MeOH). Source:

DA E XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13307 Macrocalyxin D**

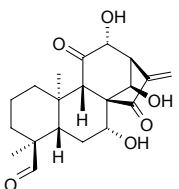
$C_{20}H_{28}O_5$ (348.44). mp 237–238°C. Source: DA E XIANG CHA CAI *Isodon*

macrocalyx. Ref: 4067.

**13308 Macrocalyxin E**

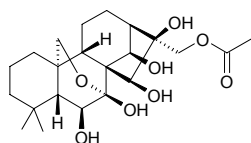
$C_{20}H_{26}O_6$ (362.43). mp 232–234°C, $[\alpha]_D^{25} = +17.75^\circ$ ($c = 0.50$, EtOH). Source:

DA E XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13309 Macrocalyxin G**

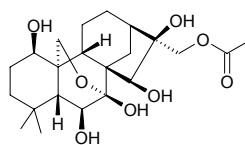
$C_{22}H_{34}O_8$ (426.51). mp 130–133°C, $[\alpha]_D^{25} = -38.66^\circ$ ($c = 0.45$, MeOH).

Source: DA E XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13310 Macrocalyxin H**

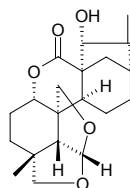
$C_{22}H_{34}O_8$ (426.51). mp 230°C, $[\alpha]_D^{25} = -41.8^\circ$ ($c = 0.22$, MeOH). Source: DA

E XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13311 Macrocalyxoformin A**

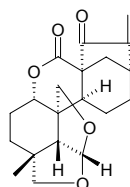
$C_{20}H_{26}O_5$ (346.43). mp 273–275°C, $[\alpha]_D^{27} = -79.8^\circ$ ($c = 0.30$, C_5H_5N). Source:

DA E BIAN XING XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13312 Macrocalyxoformin B**

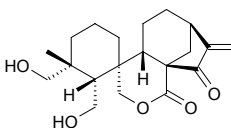
$C_{20}H_{24}O_5$ (344.41). mp 320–323°C, $[\alpha]_D^{16} = -164.9^\circ$ ($c = 1.0$, $CHCl_3$). Source:

DA E BIAN XING XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13313 Macrocalyxoformin D**

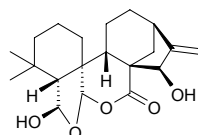
$C_{20}H_{28}O_5$ (348.44). mp 194–196°C, $[\alpha]_D^{25} = -20.4^\circ$ ($c = 4.7$, $CHCl_3$). Source:

DA E BIAN XING XIANG CHA CAI *Isodon macrocalyx*. Ref: 4067.

**13314 Macrocalyxoformin E**

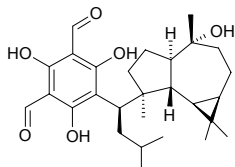
$C_{20}H_{28}O_5$ (348.44). mp 298–300°C. Source: DA E BIAN XING XIANG CHA

CAI *Isodon macrocalyx*. Ref: 4067.

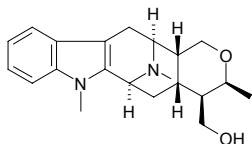


13315 Macrocarpal A

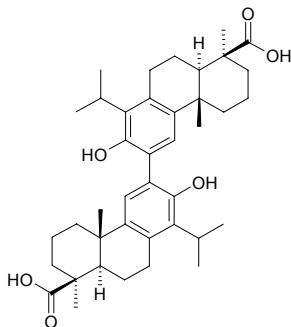
[132951-90-7] C₂₈H₄₀O₆ (472.63). Colorless crystals, mp 191~192°C, [α]_D²⁴ = -61.7° (*c* = 1.1, ethanol). **Pharm:** Antibacterial (pathogenic bacteria in mouth, MIC = 0.39~6.25µg/mL); aldose reductase inhibitor; glucose transferase inhibitor (10µg/mL, InRt = 75.4%, 100µg/mL, InRt = 97.1%); HIV reverse transcriptase inhibitor (IC₅₀ = 10.0µmol/L). **Source:** AN YE *Eucalyptus globulus*. **Ref:** 944, 1074, 1176.

**13316 Macrocarpine A**

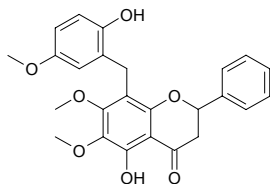
C₂₁H₂₈N₂O₂ (340.47). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). **Ref:** 3020.

**13317 Macrophylllic acid**

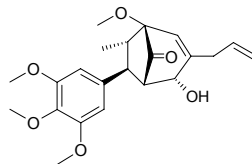
[2785-58-2] C₄₀H₅₄O₆ (630.87). mp 237~238°C (dec). **Source:** LUO HAN SONG YE *Podocarpus macrophyllus*. **Ref:** 6.

**13318 Macrophyllin**

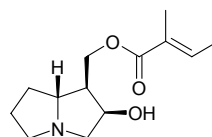
C₂₅H₂₄O₇ (436.47). Yellow plate crystals, mp 132~133°C, [α]_D²⁰ = +4.92 (*c* = 0.06, MeOH). **Source:** DA YE ZI YU PAN *Uvaria macrophylla*. **Ref:** 2220.

**13319 Macrophyllin B**

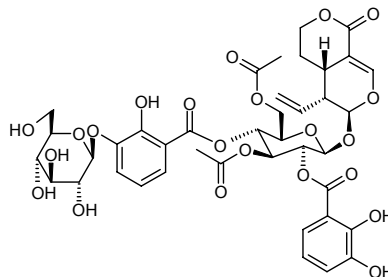
[74944-98-2] C₂₂H₂₈O₆ (388.46). **Source:** MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. **Ref:** 575.

**13320 Macrophylline**

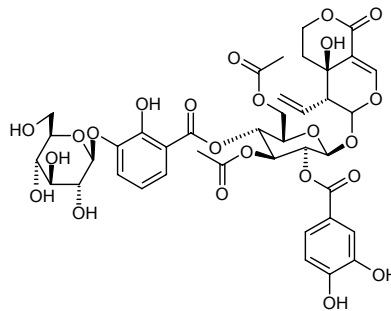
[27814-97-0] C₁₃H₂₁NO₃ (239.32). mp 42~44°C, bp 100°C/0.2mmHg. **Source:** HUANG WAN *Senecio nemorensis*. **Ref:** 6.

**13321 Macrophylliside A**

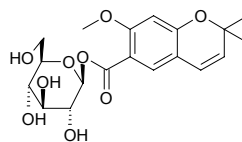
[179457-66-0] C₄₀H₄₄O₂₂ (876.78). **Source:** XI ZANG QIN JIAO *Gentiana tibetica*. **Ref:** 702.

**13322 Macrophylliside B**

[179457-67-1] C₄₀H₄₄O₂₃ (892.78). Amorphous powder, mp 127~133°C, [α]_D²⁰ = -9° (*c* = 0.385, MeOH). **Source:** QIN JIAO *Gentiana macrophylla*. **Ref:** 707.

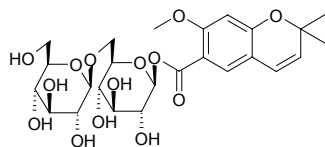
**13323 Macrophylliside C**

[179457-68-2] C₁₉H₂₄O₉ (396.40). Amorphous powder, mp 72~75°C, [α]_D²⁰ = -23° (*c* = 0.037, MeOH). **Source:** QIN JIAO *Gentiana macrophylla*. **Ref:** 707.

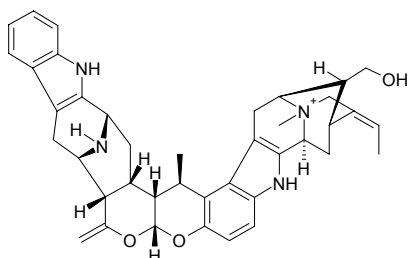


13324 Macrophyllaside D

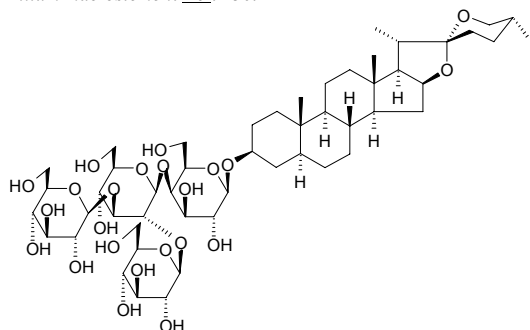
[179457-69-3] C₂₅H₃₄O₁₄ (558.54). Amorphous powder, mp 132~134°C, [α]_D²⁰ = -4° (c = 0.511, MeOH). Source: QIN JIAO *Gentiana macrophylla*. Ref: 707.

**13325 Macropegatrine**

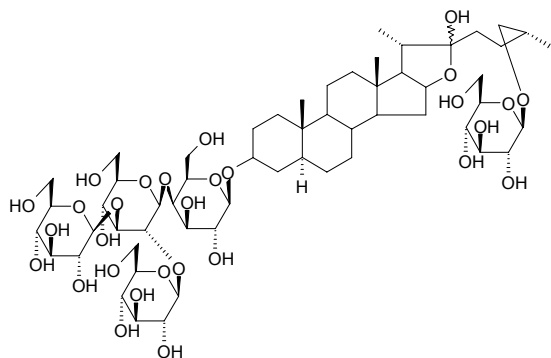
[113775-81-8] C₄₀H₄₅N₄O₃ (629.83). Colorless rhomboid crystals, mp 300°C (changing into black), [α]_D¹⁷ = +215° (chloroform). Source: HAI NAN LUO FU MU *Rauvolfia verticillata* var. *hainanensis*. Ref: 89.

**13326 Macrostemoside A**

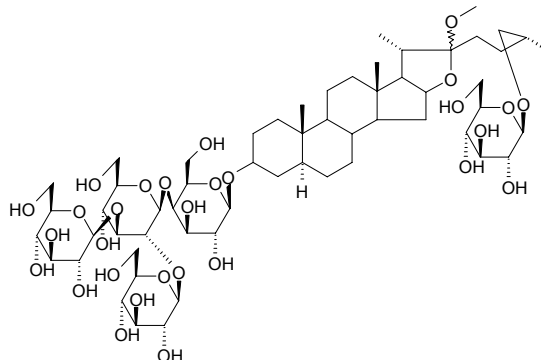
Tigogenin-3-*O*-β-*D*-glucopyranosyl-(1→2)[β-*D*-glucopyranosyl-(1→3)]-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside C₅₁H₈₄O₂₃ (1065.22). White powder, mp 276~278°C, [α]_D²⁰ = 0° (c = 0.1, pyridine). Source: XIE BAI *Allium macrostemon*. Ref: 250.

**13327 Macrostemoside B**

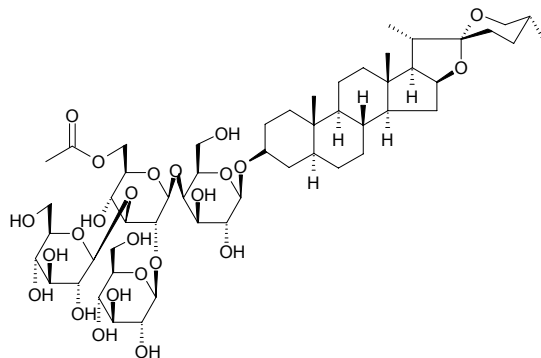
C₅₇H₉₆O₂₉ (1245.38). White powder. Source: XIE BAI *Allium macrostemon*. Ref: 4897.

**13328 Macrostemoside C**

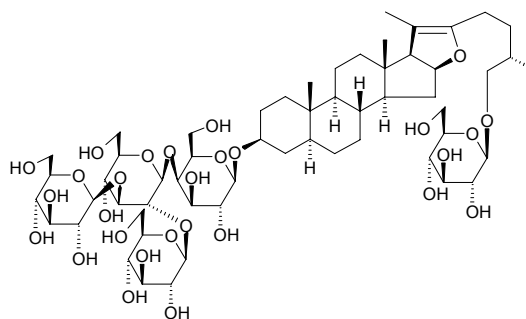
C₅₈H₉₈O₂₉ (1257.44). White powder. Pharm: Cytotoxic (SF268 cells, EC = 25μg/mL, NCI-H460 cells, EC = 25μg/mL, HepG2 cells, inactive). Source: XIE BAI *Allium macrostemon*. Ref: 4897.

**13329 Macrostemoside D**

Tigogenin-3-*O*-β-*D*-glucopyranosyl-(1→2)[β-*D*-glucopyranosyl-(1→3)(6-*O*-acetyl-β-*D*-glucopyranosyl)]-(1→4)-β-*D*-galactopyranoside C₅₃H₈₆O₂₄ (1107.26). White powder, mp 270~273°C, [α]_D²⁰ = 0° (c = 0.1, pyridine). Source: XIE BAI *Allium macrostemon*. Ref: 250.

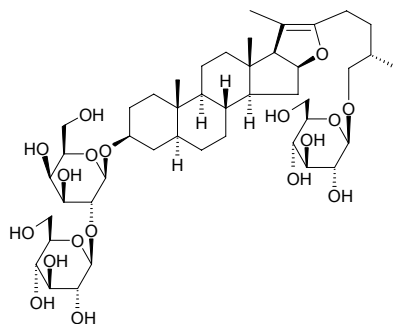
**13330 Macrostemoside E**

[151140-39-5] C₅₇H₉₄O₂₈ (1227.37). White amorphous powder, mp 227.5~230.0°C, mp 209~212°C [α]_D²⁵ = -32.7° (c = 0.101, H₂O). Pharm: Platelet aggregation inhibitor (hmn *in vitro*, induced by ADP, IC₅₀ = 0.417mmol/L). Source: XIE BAI *Allium macrostemon*. Ref: 273, 4897.

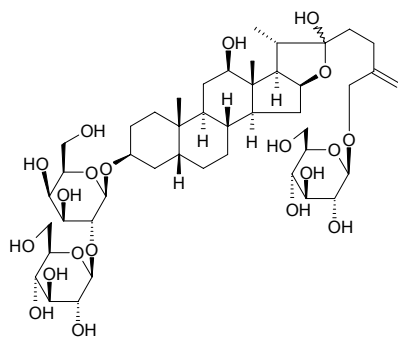


13331 Macrostemoside F

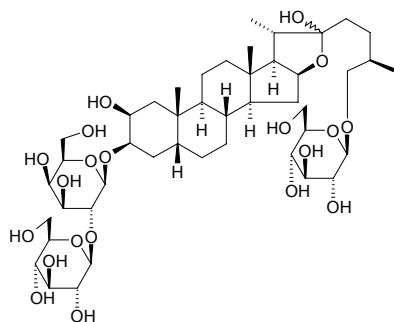
[151215-11-1] C₄₅H₇₄O₁₈ (903.08). White amorphous powder, mp 196.0~198.5°C; white powder, mp 180~184°C [α]_D²⁷ = -22.9° (c = 0.131, H₂O). **Pharm:** Platelet aggregation inhibitor (hmn *in vitro*, induced by ADP, IC₅₀ = 0.020mmol/L); free radical scavenger (·OH free radical). **Source:** ZHI MU *Anemarrhena asphodeloides*, XIE BAI *Allium macrostemon*. **Ref:** 273, 2165, 4897.

**13332 Macrostemoside G**

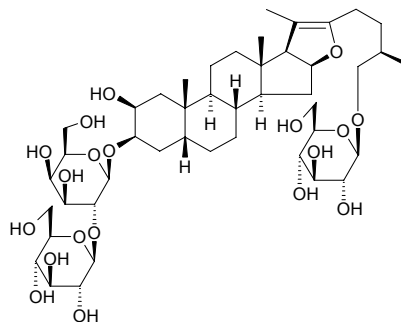
[162413-62-9] C₄₅H₇₄O₂₀ (935.08). White amorphous powder, mp 198~200°C. **Pharm:** Platelet aggregation inhibitor (hmn *in vitro*, induced by ADP, IC₅₀ = 0.871mmol/L). **Source:** XIE BAI *Allium macrostemon*. **Ref:** 1153.

**13333 Macrostemoside J**

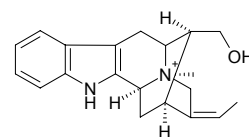
(25*R*)-26-*O*-β-*D*-glucopyranosyl-22-hydroxy-5β-furost-2β,3β,26-triol-3-*O*-β-*D*-glucopyranosyl-(1→2)-β-*D*-galactopyranoside C₄₅H₇₆O₂₀ (937.10). White amorphous powder, mp 230~232°C. **Source:** XIE BAI *Allium macrostemon*. **Ref:** 309.

**13334 Macrostemoside L**

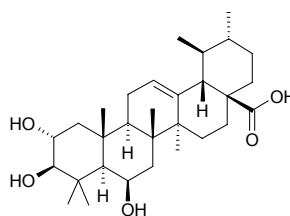
(25*R*)-26-*O*-β-*D*-Glucopyranosyl-22-methoxy-5β-furost-2β,3β,26-triol-3-*O*-β-*D*-glucopyranosyl-(1→2)-β-*D*-galactopyranoside C₄₅H₇₄O₁₉ (919.08). White amorphous powder, mp 206~208°C. **Source:** XIE BAI *Allium macrostemon*. **Ref:** 309.

**13335 Macusine B**

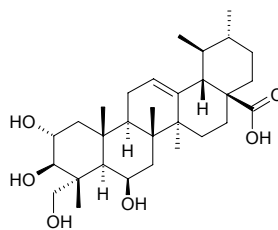
C₂₀H₂₅N₂O (309.44). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 3943.

**13336 Madasiatic acid**

[26532-66-1] C₃₀H₄₈O₅ (488.71). Crystals, mp 248~250°C (dec). **Source:** JI XUE CAO *Centella asiatica*. **Ref:** 6.

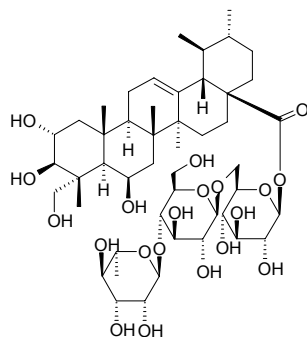
**13337 Madecassic acid**

C₃₀H₄₈O₆ (504.71). **Pharm:** Induces gene expression changes (hmn fibroblast, IC₉₀ = (175±20)μg/mL)^[5430]. **Source:** JI XUE CAO *Centella asiatica* (dried whole herb: content scope of 3 origins = 0.26%~0.72%, mean content = 0.454%^[5508]). **Ref:** 5430, 5508.

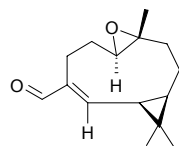


13338 Madecassoside

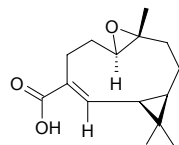
$C_{48}H_{78}O_{20}$ (975.14). **Pharm:** Induces gene expression changes (hmn fibroblast, $IC_{90} > 400 \mu\text{g/mL}$)^[5430]. **Source:** JI XUE CAO *Centella asiatica* (dried whole herb: content scope of 9 origins = trace~1.59%, mean content = 0.603%^[5508]). **Ref:** 6, 4135, 5430, 5508.

**13339 Madolin A**

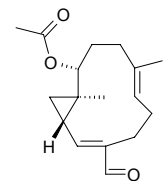
$C_{15}H_{22}O_2$ (234.34). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0019%dw). **Ref:** 3026.

**13340 Madolin B**

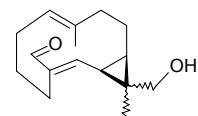
$C_{15}H_{22}O_3$ (250.34). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw). **Ref:** 3026.

**13341 Madolin H**

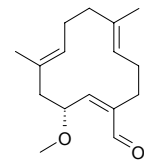
$C_{17}H_{24}O_3$ (276.38). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0012%dw). **Ref:** 3026.

**13342 Madolin K**

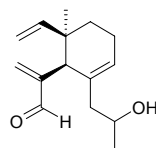
$C_{16}H_{24}O_2$ (248.37). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00031%dw). **Ref:** 3026.

**13343 Madolin M**

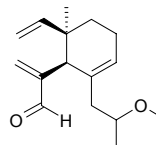
$C_{16}H_{24}O_2$ (248.37). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0012%dw). **Ref:** 3026.

**13344 Madolin R**

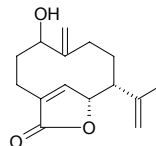
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D = -63^\circ$ ($c = 0.07$, CHCl_3). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw). **Ref:** 3026.

**13345 Madolin S**

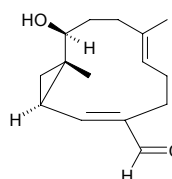
$C_{16}H_{24}O_2$ (248.37). Colorless oil, $[\alpha]_D = -41.7^\circ$ ($c = 0.06$, CHCl_3). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw). **Ref:** 3026.

**13346 Madolin U**

$C_{15}H_{20}O_3$ (248.32). Colorless oil, $[\alpha]_D = +84.9^\circ$ ($c = 0.08$, CHCl_3). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00092%dw). **Ref:** 3026.

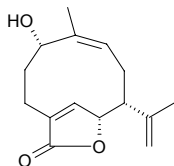
**13347 Madolin W**

$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D = -83.4^\circ$ ($c = 0.1$, CHCl_3). **Source:** MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0012%dw). **Ref:** 3026.

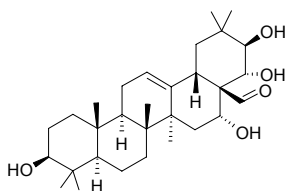


13348 Madolin X

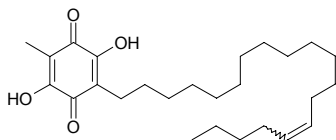
$C_{15}H_{20}O_3$ (248.32). Colorless oil, $[\alpha]_D^{20} = +32.6^\circ$ ($c = 0.05$, $CHCl_3$). Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem): yield = 0.00062% dw). Ref: 3026.

**13349 Maesagenin A**

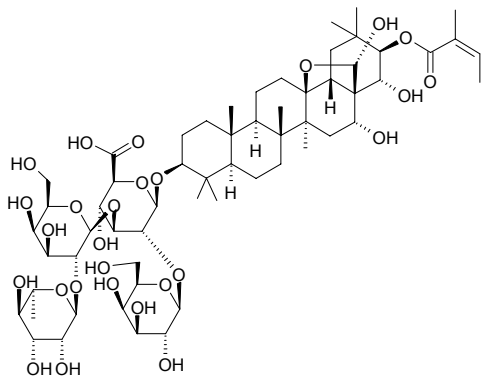
$C_{30}H_{48}O_5$ (488.71). White acicular crystals, mp 248–250°C. Source: JI YU DAN *Maesa perlaris*. Ref: 840.

**13350 Maesaquinone**

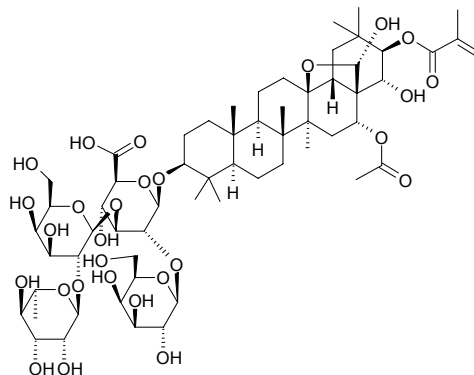
[19833-20-6] $C_{26}H_{42}O_4$ (418.62). mp 123°C. Source: DU JING SHAN *Maesa japonica*, LIANG MIAN QING *Maesa indica*. Ref: 6, 1521.

**13351 Maesasaponin I**

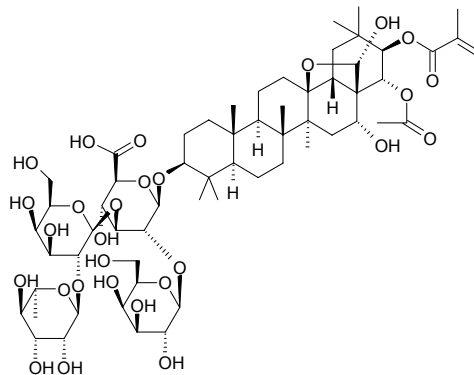
3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-21-angeloyloxy-13,28-oxidoolean-16 α ,22 α ,28 α -triol $C_{59}H_{94}O_{27}$ (1235.39). $[\alpha]_D^{31.4} = -27.7^\circ$ ($c = 0.84$, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

**13352 Maesasaponin II**

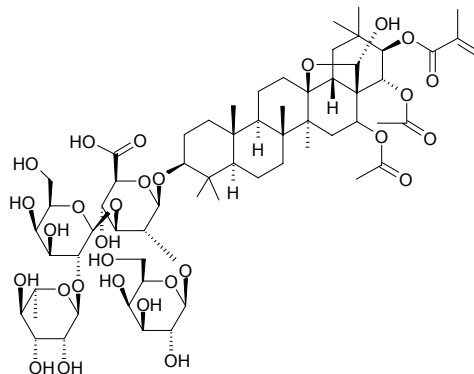
3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-16 α -acetoxy-21 β -angeloyloxy-13 β ,28-oxidoolean-22 α ,28 α -diol $C_{61}H_{96}O_{28}$ (1277.43). $[\alpha]_D^{32.5} = -29.7^\circ$ ($c = 0.69$, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

**13353 Maesasaponin III**

3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-22 α -acetoxy-21 β -angeloyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol $C_{61}H_{96}O_{28}$ (1277.43). $[\alpha]_D^{33.7} = -45.5^\circ$ ($c = 1.0$, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

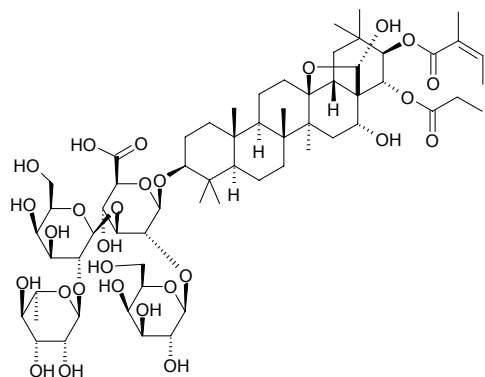
**13354 Maesasaponin IV₂**

3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-16 α ,22 α -diacetoxy-21 β -angeloyloxy-13 β ,28-oxidoolean-28 α -ol $C_{63}H_{98}O_{29}$ (1319.47). $[\alpha]_D^{35} = -19.5^\circ$ ($c = 1.0$, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

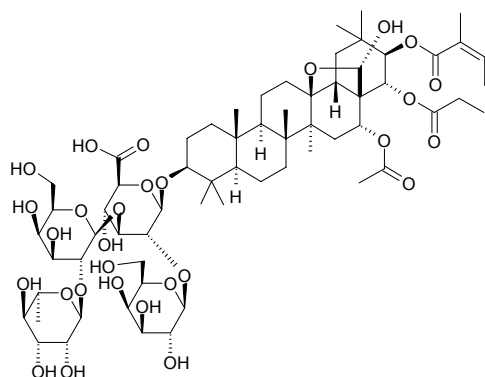


13355 Maesasaponin IV₃

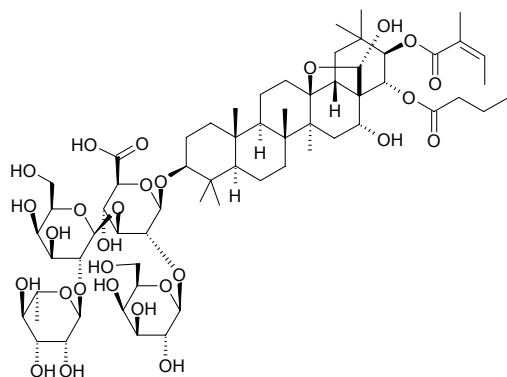
3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-21 β -angeloyloxy-22 α -propanoyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol C₆₄H₉₈O₂₈ (1291.46). [α]_D²⁸ = -41.5° (c = 1.0, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

**13356 Maesasaponin V₂**

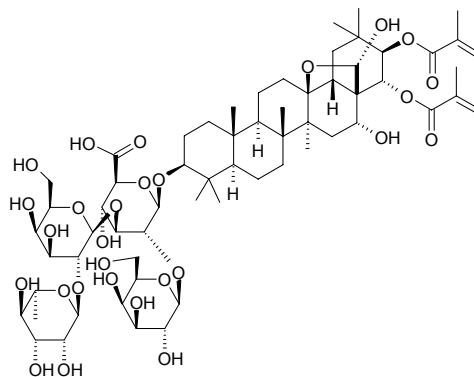
3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-21 β -angeloyloxy-22 α -butanoyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol C₆₄H₁₀₀O₂₉ (1333.49). [α]_D³² = -30.0° (c = 0.5, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

**13357 Maesasaponin V₃**

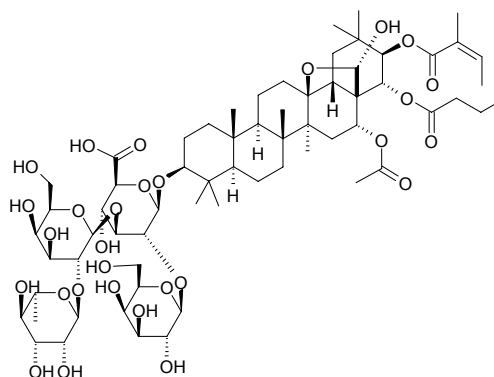
3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-16 α -acetoxy-21 β -angeloyloxy-22 α -propanoyloxy-13 β ,28-oxidoolean-28 α -ol C₆₃H₁₀₀O₂₈ (1305.48). [α]_D^{29.5} = -47.0° (c = 1.0, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

**13358 Maesasaponin VI₂**

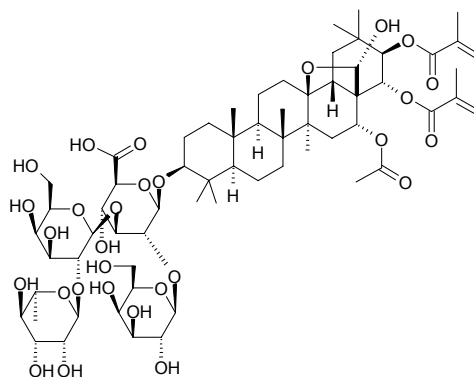
Maesasaponin; 3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-21 β ,22 α -diangeloyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol C₆₄H₁₀₀O₂₈ (1317.49). Yellow powder, mp 250°C; [α]_D³³ = -33.0° (c = 1.0, pyridine). Source: JI YU DAN *Maesa perliarius*, PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 840, 2386.

**13359 Maesasaponin VI₃**

3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-16 α -acetoxy-21 β -angeloyloxy-22 α -butanoyloxy-13 β ,28-oxidoolean-28 α -ol C₆₅H₁₀₂O₂₉ (1347.52). [α]_D³⁴ = -44.5° (c = 1.0, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

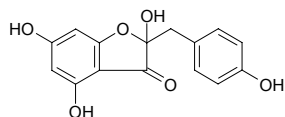
**13360 Maesasaponin VII₁**

3 β -O- $\{[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-16 α -acetoxy-21 β ,22 α -diangeloyloxy-13 β ,28-oxidoolean-28 α -ol C₆₆H₁₀₂O₂₉ (1359.53). [α]_D^{34.5} = -41.5° (c = 0.59, pyridine). Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 2386.

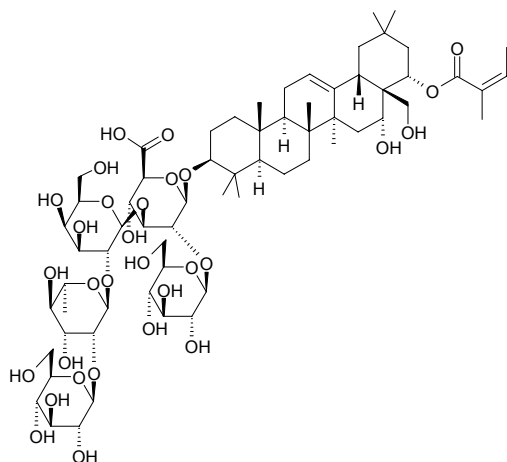


13361 Maesopsin

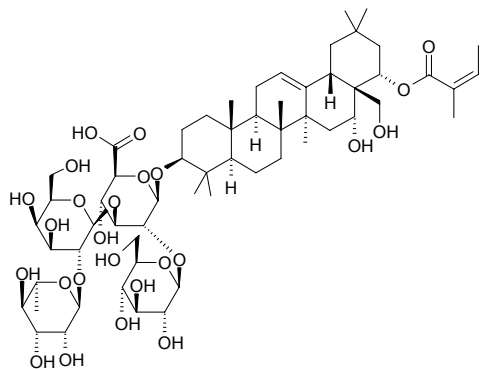
$C_{15}H_{12}O_6$ (288.26). Whitegranular substance ($CHCl_3$ -acetone), mp 184–185°C. **Pharm:** Antioxidant (DPPH radical scavenger, $IC_{50} = 5.3\mu g/mL$; control Ascorbic acid, $IC_{50} = 3.9\mu g/mL$)^[4711]. **Source:** AI DA HUANG *Rheum nanum*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.0067%dw)^[4711]. **Ref:** 4711, 4807.

**13362 Maetenoside A**

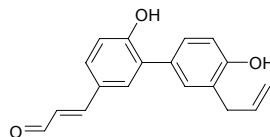
3-*O*-[β -*D*-Glucopyranosyl-(1→2)- α -*L*-rhamnopyranosyl-(1→2)- β -*D*-galactopyranosyl-(1→3)] [β -*D*-glucopyranosyl-(1→2)]- β -*D*-glucuronopyranosyl camelliagenin A 22-*O*-angelate $C_{65}H_{104}O_{30}$ (1365.54). Amorphous solid, $[\alpha]_D^{22} = -15.0^\circ$ ($c = 0.7$, MeOH). **Source:** RUAN RUO DU JING SHAN *Maesa tenera* (aerial parts). **Ref:** 3539.

**13363 Maetenoside B**

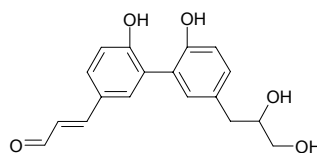
3-*O*-[α -*L*-Rhamnopyranosyl-(1→2)- β -*D*-galactopyranosyl-(1→3)] [β -*D*-glucopyranosyl-(1→2)]- β -*D*-glucuronopyranosyl camelliagenin A 22-*O*-angelate $C_{59}H_{94}O_{25}$ (1203.39). Amorphous solid, $[\alpha]_D^{22} = -21.3^\circ$ ($c = 0.6$, MeOH). **Source:** RUAN RUO DU JING SHAN *Maesa tenera* (aerial parts). **Ref:** 3539.

**13364 Magnaldehyde B**

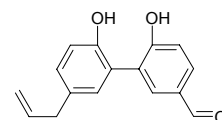
$C_{18}H_{16}O_3$ (280.33). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**13365 Magnaldehyde C**

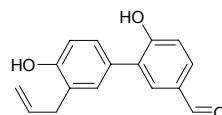
$C_{18}H_{18}O_5$ (314.34). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**13366 Magnaldehyde D**

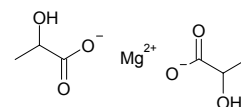
[93753-33-4] $C_{16}H_{14}O_3$ (254.29). Pale yellow needles ($CHCl_3$ - C_6H_6), mp 140–143°C. **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**13367 Magnaldehyde E**

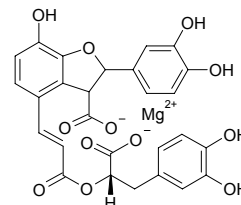
[138591-09-9] $C_{16}H_{14}O_3$ (254.29). Pale yellow needles ($CHCl_3$ - C_6H_6), mp 160–162°C. **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**13368 Magnesium lactate**

[18917-93-6] $C_6H_{10}MgO_6$ (202.46). **Source:** LU HUI *Aloe vera* [Syn. *Aloe barbadensis*]. **Ref:** 2.

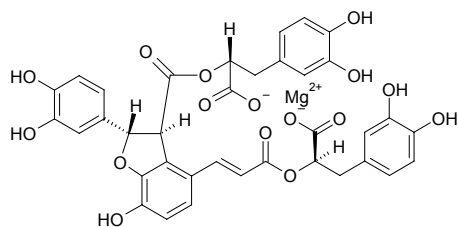
**13369 Magnesium lithospermate**

$C_{27}H_{20}MgO_{12}$ (560.76). **Pharm:** Anti-HIV (non-competitively inhibits enzymatic substrates). **Source:** YOU CI PO BU MU *Cordia spinescens*. **Ref:** 2268.

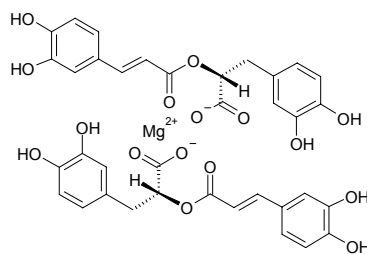


13370 Magnesium lithospermate B

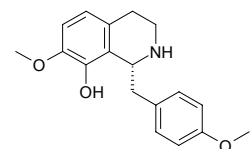
$C_{36}H_{28}MgO_{16}$ (740.92). **Pharm:** Antioxydant. **Source:** DAN SHEN *Salvia multiorrhiza*. **Ref:** 4933.

**13371 Magnesium rosmarinat**

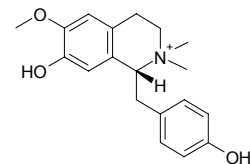
$C_{36}H_{30}MgO_{16}$ (742.95). **Source:** YOU CI PO BU MU *Cordia spinescens*. **Ref:** 2268.

**13372 Magnococline**

$C_{18}H_{21}NO_3$ (299.37). **Source:** YE HE HUA *Magnolia coco*. **Ref:** 6.

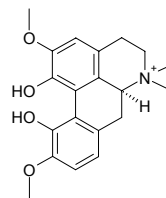
**13373 Magnocurarine**

[6801-40-7] $C_{19}H_{24}NO_3^+$ (314.41). mp (+)(S) 198~199°C (dec), (-)(R) 199~200°C. **Pharm:** Ganglionic blocker (curariform action, rbt, nutation experiment, ED_{50} = 6mg/kg); antihypertensive (anesthetic dog, cat, and rbt); LD_{50} (mus ip) = 3mg/kg. **Source:** CHENG QIE ZI *Litsea cubeba*, DA YE HOU PO *Magnolia rostrata*, HOU PO *Magnolia officinalis*, RI BEN HOU PO *Magnolia obovata*, WU DANG MU LAN *Magnolia sprengeri*. **Ref:** 2, 4, 6, 625, 658.

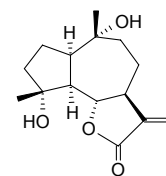
**13374 Magnoflorine**

Escholine; Thalictrine [2141-09-5] $C_{20}H_{24}NO_4$ (342.42). mp 169~170°C. **Pharm:** Ganglionic blocker (curariform action); antihypertensive (rodents and anesthetic cat, 2mg/kg iv, reduces blood pressure by (30~50)% for 90~120min, renal hypertensive dog, 6mg/kg iv, particularly diastolic pressure). **Source:** BEI JIA ER TANG SONG CAO *Thalictrum baicalense*, BEI MA DOU LING

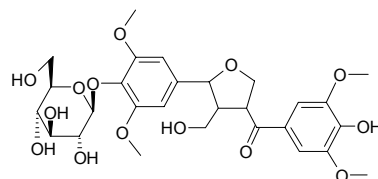
Aristolochia contorta, BEI MA DOU LING GEN *Aristolochia contorta*, CU GUO TANG SONG CAO *Thalictrum dasycarpum*, DONG YA TANG SONG CAO *Thalictrum minus* var. *hypoleucum*^[5507], FAN BAI CAO *Potentilla discolor*^[5507], GUAN MU TONG *Aristolochia manshuriensis*, GUANG FANG JI *Aristolochia fangchi*, HAN FANG JI *Aristolochia heterophylla*, HE HUA YU LAN *Magnolia grandiflora*, HOU PO *Magnolia officinalis*, HUA NAN GONG LAO MU *Mahonia japonica*, HUA NAN GONG LAO YE *Mahonia japonica*, HUAI TONG *Aristolochia moupinensis*, HUANG BAI *Phellodendron amurense*, HUANG LIAN *Coptis chinensis*, HUANG PI SHU *Phellodendron chinense*, KA MING BA DOU *Croton cuningii*, MA DOU LING *Aristolochia debilis* [Syn. *Aristolochia longa*], MA TI YE *Caltha palustris*, MA WEI LIAN *Thalictrum foliolosum*, MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], OU ZHOU MA DOU LING *Aristolochia siphon*^[5507], QING FENG TENG *Sinomenium acutum*, QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*], RI BEN XIAO BO *Berberis thunbergii*, SAN JIAO YE HUANG LIAN *Coptis deltoidea*, TAI WAN XIAO BO *Berberis kawakamii*^[5507], TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*, XI YE GONG LAO MU *Mahonia fortunei*, XI YE GONG LAO YE *Mahonia fortunei*, XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO BO *Berberis amurensis*, XIAO TANG SONG CAO *Thalictrum minus*^[5507], YAN GUO CAO *Thalictrum thunbergii*, YIN YANG HUO *Epimedium brevicornum*, YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*], YUN NAN HUANG LIAN *Coptis teetoides* [Syn. *Coptis teeta*], occurs in many plants. **Ref:** 2, 4, 6, 306, 625, 658, 660, 5501, 5507.

**13375 Magnograndiolide**

[92618-98-9] $C_{15}H_{22}O_4$ (266.34). Prisms, mp 176~177°C. **Source:** HE HUA YU LAN *Magnolia grandiflora*. **Ref:** 1226.

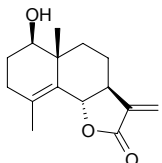
**13376 Magnolenin C**

[66779-67-7] $C_{28}H_{36}O_{14}$ (596.59). **Source:** HE HUA YU LAN *Magnolia grandiflora*. **Ref:** 1228.

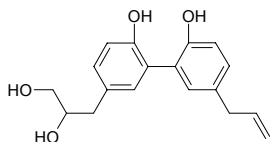


13377 Magnolialide

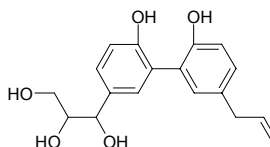
[72145-13-2] C₁₅H₂₀O₃ (248.32). Crystals (hexane-Et₂O), mp 152–153°C, [α]_D²⁵ = +74° (c = 0.23, EtOH). Source: JU QU *Cichorium intybus*, HE HUA YU LAN *Magnolia grandiflora*. Ref: 736, 1229, 1521.

**13378 Magnolignan A**

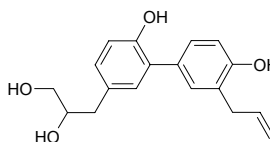
[93673-81-5] C₁₈H₂₀O₄ (300.36). Powder, [α]_D¹⁷ = -0.8° (c = 1.5, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 6, 1521.

**13379 Magnolignan B**

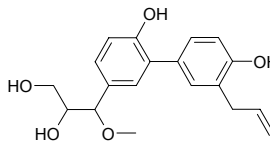
[138591-07-8] C₁₈H₂₀O₅ (316.36). Powder, [α]_D²⁸ = +0.3° (c = 2.5, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 6, 1521.

**13380 Magnolignan C**

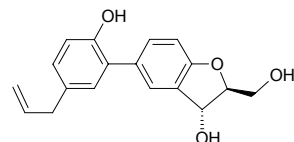
[93697-42-8] C₁₈H₂₀O₄ (300.36). Powder, [α]_D²² = -6.8° (c = 0.9, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 6, 1521.

**13381 Magnolignan D**

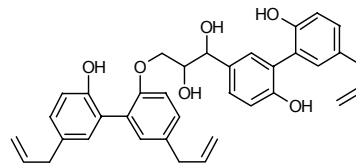
[138749-67-4] C₁₉H₂₂O₅ (330.38). Powder, [α]_D¹⁷ = +3.0° (c = 0.9, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

**13382 Magnolignan E**

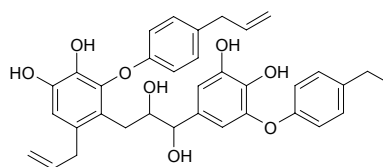
[138591-08-9] C₁₈H₁₈O₄ (298.34). Powder, [α]_D²⁹ = -2.0° (c = 2.1, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

**13383 Magnolignan F**

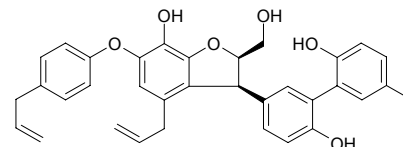
[138591-10-3] C₃₆H₃₆O₆ (564.68). Pale brown powder, [α]_D²⁸ = -1.5° (c = 1.04, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

**13384 Magnolignan G**

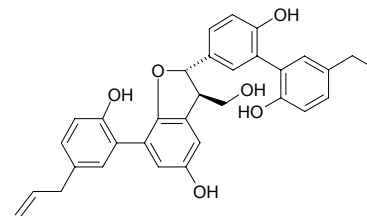
[138591-11-4] C₃₆H₃₆O₈ (596.68). Pale brown powder, [α]_D²⁹ = +0.1° (c = 1.25, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

**13385 Magnolignan H**

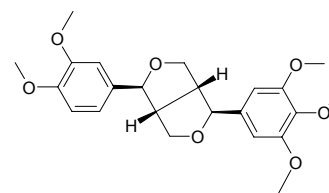
[138591-12-5] C₃₅H₃₄O₆ (550.66). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

**13386 Magnolignan I**

[138591-13-6] C₃₃H₃₀O₆ (522.60). Pale brown powder, [α]_D²⁸ = +2.1° (c = 1, MeOH). Source: HOU PO *Magnolia officinalis*. Ref: 2, 1521.

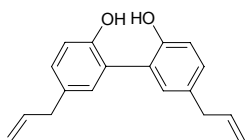
**13387 Magnolin**

[31008-18-1] C₂₃H₂₈O₇ (416.48). mp 96–97°C, [α]_D = +55.7° (CHCl₃). Pharm: Platelet aggregation inhibitor (induced by PAF, IC₅₀ = 10 μmol/L, PAF receptor antagonist, ED₅₀ = 4.4 μmol/L). Source: WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*], XIN YI *Magnolia liliflora*. Ref: 6, 543, 1577.

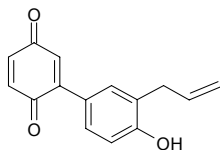


13388 Magnolol

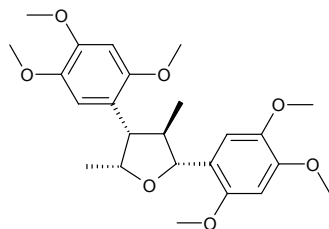
[528-43-8] C₁₈H₁₈O₂ (266.34). Crystals (Et₂O–hexane), mp 101.5–102°C. **Pharm:** Antibacterial (*Streptococcus* sp., MIC = 0.63 μg/mL); antiulcerative (rat, prevents stress ulcer due to waterlogging, 5–20 mg/kg); muscle relaxant (MED = 90 mg/kg); hepatoprotective (inhibits cellular leakage of LDH and AST, and cell death, induced by 1.5 μmol/L tBH for 1h, effective dose = 40 μmol/L; induced by 30 μmol/L GalN, effective dose = 1, 5, and 20 μmol/L)^[5344]; Hepatoprotective (inhibits tBH-induced lipid peroxidation, primary cultured rat hepatocytes, thiobarbituric acid reactive substance (TBARS) assay, effective dose = 20 and 40 μmol/L)^[5344]; Hepatoprotective (inhibits GSH depletion, GSH concentration in tBH-treated hepatocytes was significantly reduced to 17 % of that of normal hepatocytes, effective dose = 20, and 40 μmol/L; induced by GalN, effective dose = 5 and 20 μmol/L)^[5344]. **Source:** DA YE HOU PO *Magnolia rostrata*, HE HUA YU LAN *Magnolia grandiflora*, HOU PO *Magnolia officinalis* (bark: content scope = 2.622%–6.415%^[5501]; content scope of 5 origins = 3.25%–6.13%, mean content = 4.96%^[5508]), RI BEN HOU PO *Magnolia obovata*, TAI WAN CHA MU *Sassafras randainense*. **Ref:** 4, 625, 658, 660, 5344, 5501, 5508.

**13389 Magnoquinone**

C₁₅H₁₂O₃ (240.26). Red powder, mp 73–76°C. **Source:** DA YE HOU PO *Magnolia rostrata*. **Ref:** 2134.

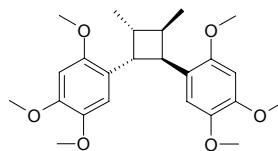
**13390 Magnosalicin**

[93376-03-5] C₂₄H₃₂O₇ (432.52). Crystals (MeOH), mp 134.5–135°C. **Pharm:** PAF antagonist; used in treatment of allergy and empyema in nose. **Source:** LIU YE MU LAN *Magnolia salicifolia*. **Ref:** 658, 1521.

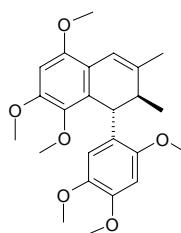
**13391 Magnosalin**

[81861-74-7] C₂₄H₃₂O₆ (416.52). Crystals (Et₂O–hexane), mp 98–99°C, [α]_D = 0° (CHCl₃). **Pharm:** Anti-angiogenic (rat, inhibits formation of vaso-endothelial cell induced by fetal bovine serum FBS and IL-1α); Anti-inflammatory (mus, 50 μg/d, remarkably reduces weight of granuloma and volume of diffuse in granulation gasbag); antirheumatic (remarkably inhibits IL-1α-induced proliferation of synovia cells); CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 85.4 μmol/L; CYP2D6, IC₅₀ >

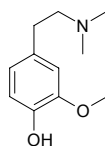
100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L)^[4797]. **Source:** SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00011% dw)^[4797]. **Ref:** 740, 1208, 1744, 1745, 1746, 4797.

**13392 Magnoshinin**

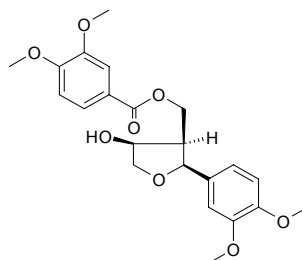
[86702-02-5] C₂₄H₃₀O₆ (414.50). Crystals (Et₂O), mp 113.5–115°C. **Pharm:** Anti-inflammatory; sedative; treatment of headache and diseases of the nasal cavity. **Source:** LIU YE MU LAN *Magnolia salicifolia*. **Ref:** 658, 1521.

**13393 Magnosprengerine**

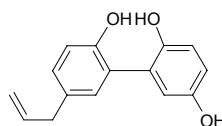
[35266-63-8] C₁₁H₁₇NO₂ (195.26). mp 258–260°C. **Source:** HOU PO *Magnolia officinalis*, WU DANG MU LAN *Magnolia sprengeri*. **Ref:** 625, 1521.

**13394 Magnostellin B**

C₂₂H₂₆O₈ (418.45). **Source:** ZHOU YE MU LAN *Magnolia praecocissima* (seed). **Ref:** 4181.

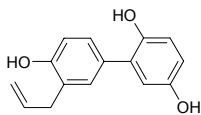
**13395 Magnotriol A**

[87562-14-9] C₁₅H₁₄O₃ (242.28). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2, 1521.

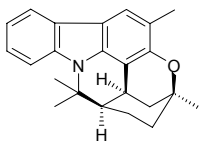


13396 Magnotriol B

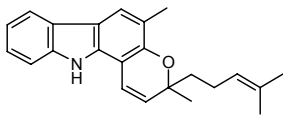
$C_{15}H_{14}O_3$ (242.28). Source: HOU PO *Magnolia officinalis*. Ref: 2.

**13397 Mahanimbidine**

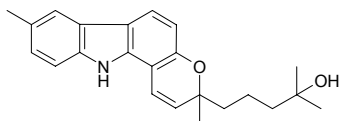
Murrayazoline $C_{23}H_{25}NO$ (331.46). Needles (Me₂CO), mp 276–278°C, $[\alpha]_D^{25} = +2.25^\circ$ ($c = 0.4$, CHCl₃). Source: DOU YE JIU LI XIANG *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 11, 1339, 1521.

**13398 (+)-Mahanimbine**

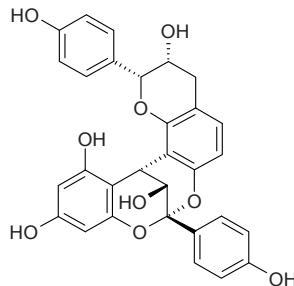
[21104-28-9] $C_{23}H_{25}NO$ (331.46). Crystals (hexane), mp 94–95°C, $[\alpha]_D = +40.6^\circ$ ($c = 2.1$, CHCl₃), $[\alpha]_D = +52^\circ$ (CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 50 μg/mL, MIC = 0.151 μmol/L, control Kanamycin, MIC = 3.13 μg/mL; *Bacillus subtilis*, MIC = 25 μg/mL, MIC = 0.076 μmol/L, Kanamycin, MIC = 6.25 μg/mL; *Escherichia coli*, MIC = 50 μg/mL, MIC = 0.151 μmol/L, Kanamycin, MIC = 12.5 μg/mL; *Proteus vulgaris*, MIC = 25 μg/mL, MIC = 0.076 μmol/L, Kanamycin, MIC = 12.5 μg/mL)^[5299]; antifungal (*Aspergillus niger*, MIC = 50 μg/mL, MIC = 0.151 μmol/L; *Candida albicans*, MIC = 100 μg/mL, MIC = 0.392 μmol/L, control Fluconazole, MIC = 25 μg/mL, MIC = 0.082 μmol/L)^[5299]. Source: DOU YE JIU LI XIANG *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*, YIN DU JIU LI XIANG *Murraya koenigii*, ZHONG HUA JIU LI XIANG *Murraya exotica*. Ref: 11, 1211, 1212, 5299.

**13399 Mahanimbinine**

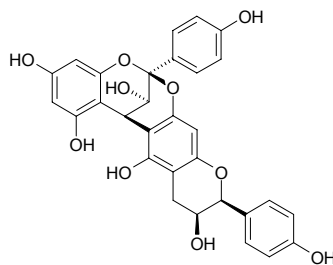
$C_{22}H_{25}NO_2$ (335.45). Source: YIN DU JIU LI XIANG *Murraya koenigii*, XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 11, 1212.

**13400 Mahuangnin B**

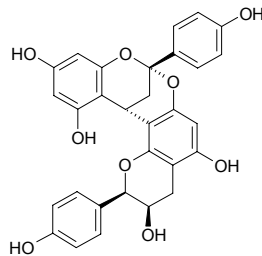
$C_{30}H_{24}O_9$ (528.52). Source: MA HUANG GEN *Ephedra sinica*. Ref: 1230.

**13401 Mahuangnin C**

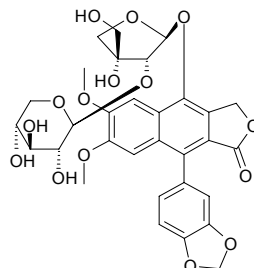
$C_{30}H_{24}O_{10}$ (544.52). Source: MA HUANG GEN *Ephedra sinica*. Ref: 1230.

**13402 Mahuangnin D**

ent-Apigeniflavan-(2 α →7,4 α →8)-epiafzelechin $C_{30}H_{24}O_9$ (528.52). Pharm: Tanning agent. Source: MA HUANG GEN *Ephedra sinica*. Ref: 1230.

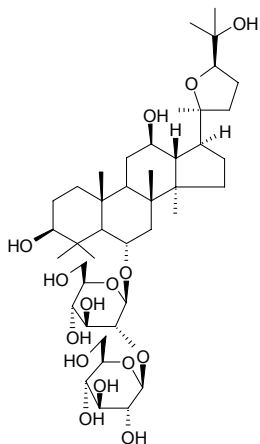
**13403 Majidine**

$C_{31}H_{32}O_{15}$ (644.59). Pharm: Cytotoxic (hmn LoVo Cell Line *in vitro*, IC₅₀ = (20.22±1.88) μl/mL). Source: *Haplophyllum patavinum* (shoot). Ref: 4206.

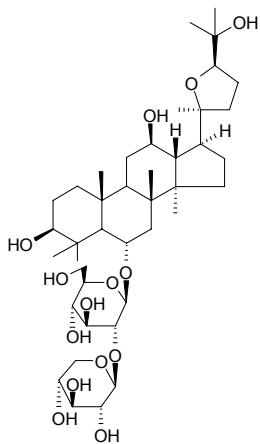


13404 Majonoside R₁

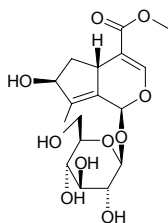
[81534-62-5] C₄₂H₇₂O₁₅ (817.03). Amorphous powder, $[\alpha]_D^{15} = +1.0^\circ$ ($c = 1.13$, MeOH). Source: YU YE SAN QI *Panax japonicus* var. *bipinnatifidus*, QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*. Ref: 660, 1521.

**13405 Majonoside R₂**

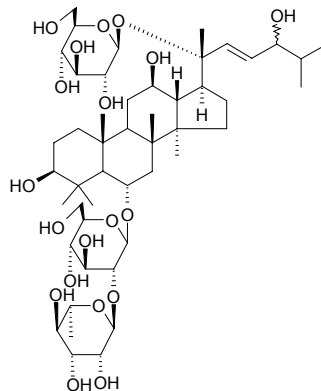
[81534-63-6] C₄₁H₇₀O₁₄ (787.01). Amorphous powder, $[\alpha]_D^{15} = -2.4^\circ$ ($c = 1.13$, MeOH). Source: QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*, YU YE SAN QI *Panax japonicus* var. *bipinnatifidus*, ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.26%dw)^[4610]. Ref: 660, 1521, 4610.

**13406 Majoroside**

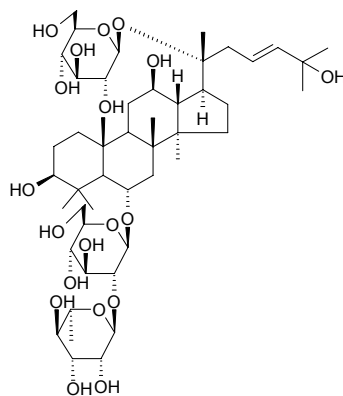
[134140-02-6] C₁₇H₂₄O₁₀ (388.37). Source: DA CHE QIAN *Plantago major*. Ref: 1231.

**13407 Majoroside F₅**

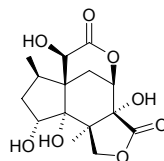
Dammar-22(32)-ene-3 β ,6 α ,12 β ,20S,24 ζ -pentaol-(20-O- β -D-glucopyranosyl-6-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside) [125309-99-1] C₄₈H₈₂O₁₉ (963.18). White powder, mp 192~194°C. Source: QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*. Ref: 137.

**13408 Majoroside F₆**

Dammar-23(24)-ene-3 β ,6 α ,12 β ,20(S),25-pentaol-(20-O- β -D-glucopyranosyl-6-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside) C₄₈H₈₂O₁₉ (963.18). White powder, mp 182.5~184.0°C. Source: QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*. Ref: 137.

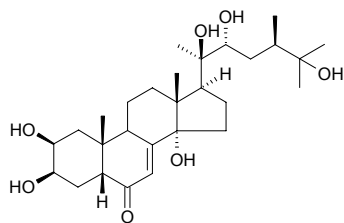
**13409 Majucin**

C₁₅H₂₀O₈ (328.32). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp). Ref: 4621.

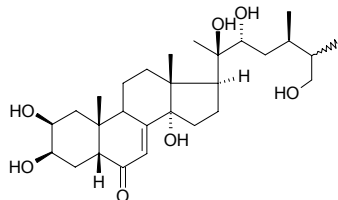


13410 Makisterone A

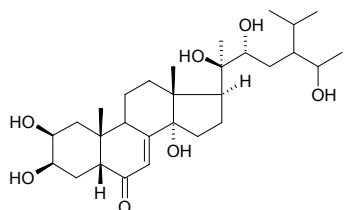
[20137-14-8] C₂₈H₄₆O₇ (494.67). Crystals, mp 263~265°C (dec). Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6, 408, 1521.

**13411 Makisterone B**

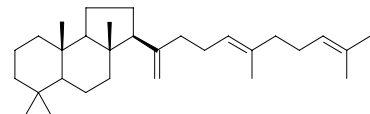
[20512-31-6] C₂₈H₄₆O₇ (494.67). Crystals, mp 172~173°C (dec). Pharm: Insect ecdysone (Steroidal compound). Source: CANG BAI CHENG GOU FENG *Diploclisia glaucescens*, HUANG JIN GU CAO *Ajuga chamaepitys*, LUO HAN SONG SHI *Podocarpus macrophyllus*, LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6, 658, 1521.

**13412 Makisterone D**

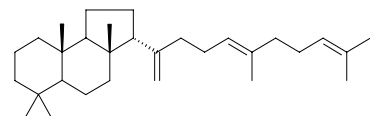
[20137-11-5] C₂₉H₄₈O₇ (508.70). Noncrystals. Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6, 1521.

**13413 13aH-Malabaricatriene**

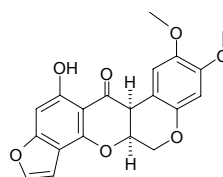
C₃₀H₅₀ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*. Ref: 1232.

**13414 13βH-Malabaricatriene**

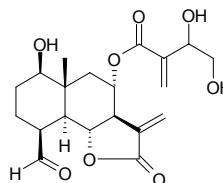
C₃₀H₅₀ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*. Ref: 1232.

**13415 (+)-Malaccol**

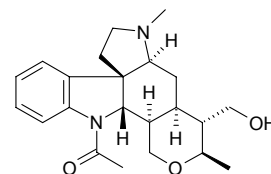
[478-07-9] C₂₀H₁₆O₇ (368.35). Yellow prisms or acicular crystals (CHCl₃-EtOH), mp 225°C, mp 249°C (double mp), [α]_D¹⁸ = +190° (c = 1.02, CHCl₃). Source: MA LIU JIA YU TENG *Derris malaccensis*. Ref: 1521.

**13416 Malacitanolide**

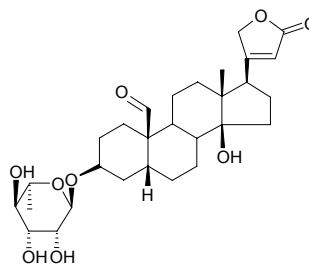
C₂₀H₂₆O₈ (394.43). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.5 μg/mL, control Miconazole, MIC = 1.5 μg/mL; *Aspergillus ochraceus*, MIC = 0.5 μg/mL, Miconazole, MIC = 1.5 μg/mL; *Aspergillus versicolor*, MIC = 1 μg/mL, Miconazole, MIC = 2 μg/mL; *Aspergillus flavus*, MIC = 0.25 μg/mL, Miconazole, MIC = 0.5 μg/mL; *Penicillium ochrochloron*, MIC = 0.5 μg/mL, Miconazole, MIC = 2 μg/mL; *Penicillium funiculosum*, MIC = 1 μg/mL, Miconazole, MIC = 2 μg/mL; *Trichoderma viride*, MIC = 1 μg/mL, Miconazole, MIC = 2 μg/mL; *Cladosporium cladosporioides*, MIC = 0.5 μg/mL, Miconazole, MIC = 0.03 μg/mL; *Alternaria alternata*, MIC = 0.5 μg/mL, Miconazole, MIC = 0.5 μg/mL). Source: *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

**13417 Malagashanol**

C₂₂H₃₀N₂O₃ (370.50). Crystals (EtOAc-*n*-hexane which char without melting), [α]_D²⁰ = +23.3° (c = 0.3, CH₂Cl₂). Source: *Strychnos myrtoides*. Ref: 2297.

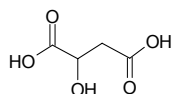
**13418 Malayoside**

C₂₉H₄₂O₉ (534.65). Needles (MeOH-Et₂O), mp 220~230°C, [α]_D = -44.2° (MeOH). Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*], HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 1233, 1234.

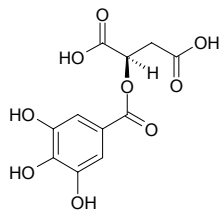


13419 Malic acid

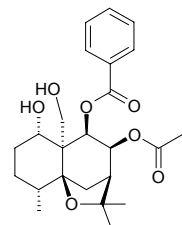
Hydroxysuccinic acid; Hydroxybutanedioic acid $C_4H_6O_5$ (134.09). mp (+) 98–99°C, (–) 100°C, (\pm) 133°C, 125–126°C. Source: BAI BU *Stemona tuberosa*, CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DUO ZU JUE *Polypodium vulgare*, HU ZHANG YE *Polygonum cuspidatum*, JU YUAN *Citrus medica*, KUAN YE XIANG PU *Typha latifolia*, MU ZEI MA HUANG *Ephedra equisetina*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], WU MEI *Prunus mume* (closing-ripe fruit: content = 8.84%)^[5508], YE SHAN ZHA *Crataegus cuneata*, YI ZHU QIAN MA *Urtica dioica*. Ref: 2, 660, 5508.

**13420 L-Malic acid 2-O-gallate**

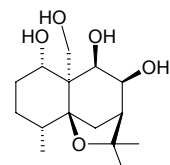
$C_{11}H_{10}O_9$ (286.20). White amorphous powder, $[\alpha]_D^{22} = -0.4^\circ$ ($c = 0.24$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**13421 Malkangunin**

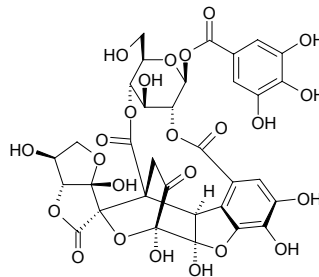
[52691-06-2] $C_{24}H_{32}O_7$ (432.52). Crystals (Et₂O–petroleum ether), mp 240–245°C, $[\alpha]_D = -58.8^\circ$ ($c = 1$, CHCl₃). Source: DENG YOU TENG ZI *Celastrus paniculatus*. Ref: 1235, 1521.

**13422 Malkanguniol**

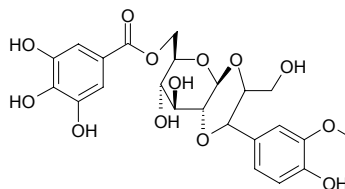
[41719-36-8] $C_{15}H_{26}O_5$ (286.37). Crystals, mp 171–172°C, $[\alpha]_D = -32.94^\circ$ ($c = 3$, dioxane). Source: DENG YOU TENG ZI *Celastrus paniculatus*. Ref: 1236, 1521.

**13423 Mallonin**

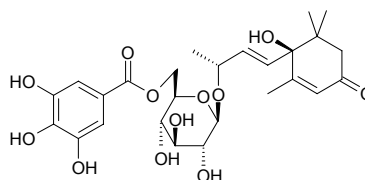
$C_{33}H_{28}O_{24}$ (808.58). Source: AN MO LE *Phyllanthus emblica* (fruit juice, leaf, branch). Ref: 3094.

**13424 Mallophenol A**

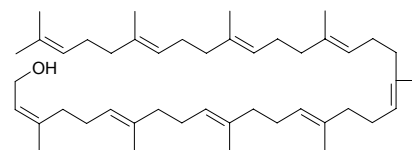
$C_{23}H_{26}O_{13}$ (510.46). Colorless oil, $[\alpha]_D^{25} = +19.4^\circ$ ($c = 0.968$, MeOH). Source: *Mallotus furetiatus* (leaf). Ref: 4301.

**13425 Mallophenol B**

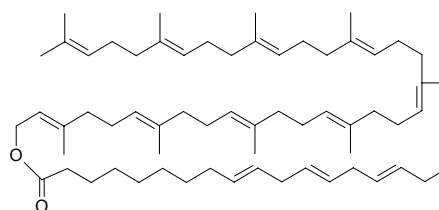
$C_{26}H_{34}O_{12}$ (538.55). Colorless oil, $[\alpha]_D^{25} = +54.1^\circ$ ($c = 1.127$, MeOH). Source: *Mallotus furetiatus* (leaf). Ref: 4301.

**13426 Malloprenol**

$C_{45}H_{74}O$ (631.09). Source: YE WU TONG *Mallotus japonicus*. Ref: 6.

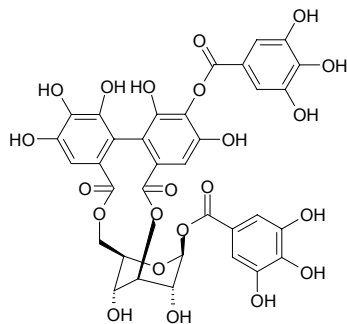
**13427 Malloprenyl linolenate**

$C_{63}H_{102}O_2$ (891.51). Source: YE WU TONG *Mallotus japonicus*. Ref: 6.

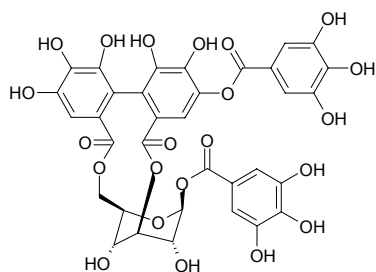


13428 Mallorepanin

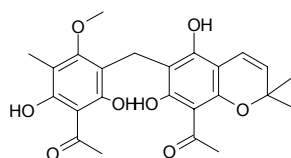
$C_{34}H_{26}O_{22}$ (786.57). Pale brown. **Pharm:** Antibacterial (*Erwinia carotovora*, IZD = 15mm/100 μ g, control Quercetin sulfate, IZD = 21mm/10 μ g; *Staphylococcus aureus*, IZD = 10mm/100 μ g, Quercetin sulfate, IZD = 14mm/10 μ g; *Corynebacterium accolens*, IZD = 10mm/100 μ g, Quercetin sulfate, IZD = 28mm/10 μ g); antifungal (*Candida albicans*, IZD = 10mm/100 μ g, control Nystatin, IZD = 11mm/20 μ g); xanthine oxidase inhibitor (IC₅₀ > 100 μ g/mL, IC₅₀ > 100 μ mol/L; control Quercetin, IC₅₀ = 3.4 μ g/mL, IC₅₀ = 10 μ mol/L). **Source:** DA YE KU NUO NI *Cunonia macrophylla* (leaf). **Ref:** 5250.

**13429 Mallotinic acid**

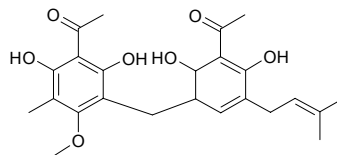
$C_{34}H_{26}O_{22}$ (786.57). Pale brown. **Pharm:** Antibacterial (*Erwinia carotovora*, IZD = 13mm/100 μ g, control Quercetin sulfate, IZD = 21mm/10 μ g; *Staphylococcus aureus*, IZD = 9mm/100 μ g, Quercetin sulfate, IZD = 14mm/10 μ g; *Corynebacterium accolens*, IZD = 9mm/100 μ g, Quercetin sulfate, IZD = 28mm/10 μ g); antifungal (*Candida albicans*, IZD = 9mm/100 μ g, control Nystatin, IZD = 11mm/20 μ g); xanthine oxidase inhibitor (IC₅₀ > 100 μ g/mL, IC₅₀ > 100 μ mol/L; control Quercetin, IC₅₀ = 3.4 μ g/mL, IC₅₀ = 10 μ mol/L). **Source:** DA YE KU NUO NI *Cunonia macrophylla* (leaf). **Ref:** 5250.

**13430 Mallotochromene**

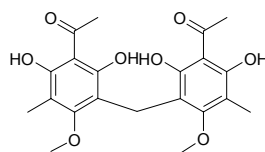
[98569-62-1] $C_{24}H_{26}O_8$ (442.47). Yellow crystals (MeOH), mp 216–218°C, [α]_D²³ = -0.74° (c = 1, CHCl₃). **Pharm:** Antineoplastic (leukemia); cytotoxic (KB). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 658.

**13431 Mallotojaponin**

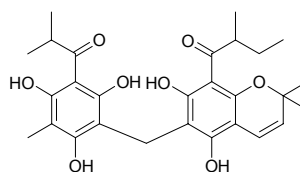
$C_{24}H_{30}O_7$ (359.32). **Pharm:** Anti-HIV (HIV-RT inhibitor). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 2268.

**13432 Mallotophenone**

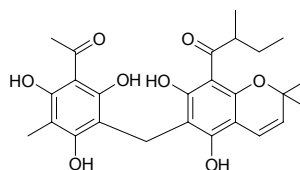
$C_{21}H_{24}O_8$ (404.42). Yellow crystals (MeOH), mp 223–225°C. **Pharm:** Cytotoxic (mus L5178Y and KB cells, *in vitro*). **Source:** YE WU TONG *Mallotus japonicus*. **Ref:** 658.

**13433 Mallotophilippen A**

1-[5,7-Dihydroxy-2,2-dimethyl-6-(2,4,6-trihydroxy-3-isobutyryl-5-methylbenzyl)-2H-chromen-8-yl]-2-methyl-butan-1-one $C_{28}H_{34}O_8$ (498.58). Yellow powder, [α]_D²³ = 0° (c = 0.1, MeOH). **Pharm:** Anti-inflammatory (NO production inhibitor, murine macrophage-like cell line RAW264.7, IC₅₀ = 4.2 μ mol/L, inhibits NO production and inducible NO synthase (iNOS) gene expression activated by LPS and recombinant mus interferon- γ (IFN- γ), furthermore, inhibits histamine release from rat peritoneal mast cells). **Source:** CU KANG CHAI *Mallotus philippinensis* (fruit). **Ref:** 4251.

**13434 Mallotophilippen B**

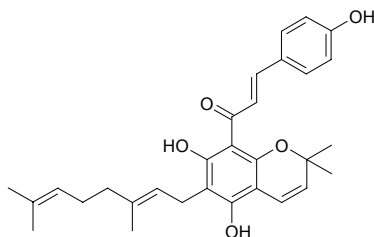
1-[6-(3-Acetyl-2,4,6-trihydroxy-5-methyl-benzyl)-5,7-dihydroxy-2,2-dimethyl-1-2H-chromen-8-yl]-2-methyl-butan-1-one $C_{26}H_{30}O_8$ (470.52). Yellow powder, [α]_D²³ = 0° (c = 0.1, MeOH). **Pharm:** Anti-inflammatory (NO production inhibitor, murine macrophage-like cell line RAW264.7, IC₅₀ = 3.2 μ mol/L, inhibits NO production and inducible NO synthase (iNOS) gene expression activated by LPS and recombinant mus interferon- γ (IFN- γ), furthermore, inhibits histamine release from rat peritoneal mast cells). **Source:** CU KANG CHAI *Mallotus philippinensis* (fruit). **Ref:** 4251.



13435 Mallotophilippen C

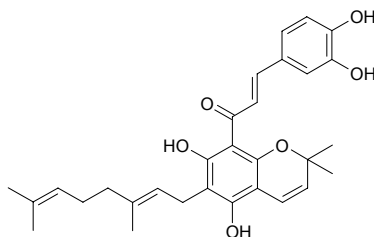
1-[6-(3,7-Dimethyl-octa-2,6-dienyl)-5,7-dihydroxy-2,2-dimethyl-2H-chromen-8-yl]-3-(4-hydroxy-phenyl)-propenone C₃₀H₃₄O₅ (474.60). Reddish-yellow plate.

Pharm: NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , IC₅₀ = 7.6 μ mol/L, control Quercetin, IC₅₀ = 26.8 μ mol/L); inhibits the inducible nitric oxide synthase (iNOS) gene expression; downregulates cyclooxygenase-2 (COX-2) gene expression; downregulates interleukin-6 (IL-6) gene expression; downregulates interleukin-1b (IL-1b) gene expression; anti-inflammatory; immunomodulator. **Source:** LV SONG QIU MAO *Mallotus philippinensis*. **Ref:** 2556.

**13436 Mallotophilippen D**

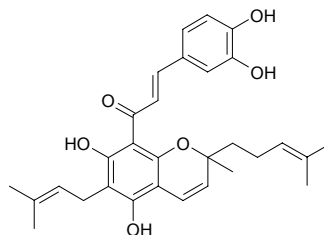
3-(3,4-Dihydroxy-phenyl)-1-[6-(3,7-dimethyl-octa-2,6-dienyl)-5,7-dihydroxy-2,2-dimethyl-2H-chromen-8-yl]-propenone C₃₀H₃₄O₆ (490.60). Reddish-yellow plate.

Pharm: NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , IC₅₀ = 9.5 μ mol/L, control Quercetin, IC₅₀ = 26.8 μ mol/L); inhibits the inducible nitric oxide synthase (iNOS) gene expression; downregulates cyclooxygenase-2 (COX-2) gene expression; downregulates interleukin-6 (IL-6) gene expression; downregulates interleukin-1b (IL-1b) gene expression; anti-inflammatory; immunomodulator. **Source:** LV SONG QIU MAO *Mallotus philippinensis*. **Ref:** 2556.

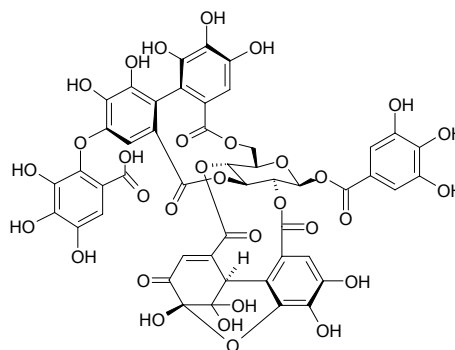
**13437 Mallotophilippen E**

1-[5,7-Dihydroxy-2-methyl-6-(3-methyl-but-2-enyl)-2-(4-methyl-pent-3-enyl)-2H-chromen-8-yl]-3-(3,4-dihydroxy-phenyl)-propenone C₃₀H₃₄O₆ (490.60). Reddish-yellow plate, $[\alpha]_D^{22} = \pm 0^\circ$ ($c = 0.5$, MeOH). **Pharm:** NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , IC₅₀ = 38.6 μ mol/L, control Quercetin, IC₅₀ = 26.8 μ mol/L); inhibits the inducible nitric oxide synthase (iNOS) gene expression; downregulates cyclooxygenase-2 (COX-2) gene expression; downregulates interleukin-6 (IL-6) gene expression; downregulates interleukin-1b (IL-1b) gene expression; anti-inflammatory; immunomodulator.

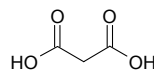
Source: LV SONG QIU MAO *Mallotus philippinensis*. **Ref:** 2556.

**13438 Mallotusinic acid**

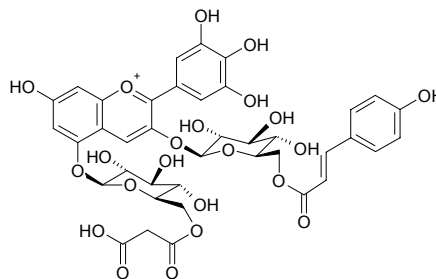
[66421-47-4] C₄₈H₃₂O₃₂ (1120.77). **Pharm:** Antioxidant (lipid peroxidation inhibitor, rat microsome in liver cells); promotes lipolysis (rat fat cells, induced by adrenal cortex hormone). **Source:** HONG BEI SHAN MA GAN *Alchornea trewioides*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*], YE WU TONG *Mallotus japonicus*, *Euphorbia* spp. **Ref:** 658.

**13439 Malonic acid**

Propanedioic acid [141-82-2] C₃H₄O₄ (104.06). mp 135.6°C. **Pharm:** Irritant. **Source:** DUO HUA CAI DOU *Phaseolus coccineus*, HAN QIN *Apium graveolens*, JIAO GU LAN *Gynostemma pentaphyllum*, MAI YA *Hordeum vulgare*, TIAN CAI *Beta vulgaris*. **Ref:** 2, 658.

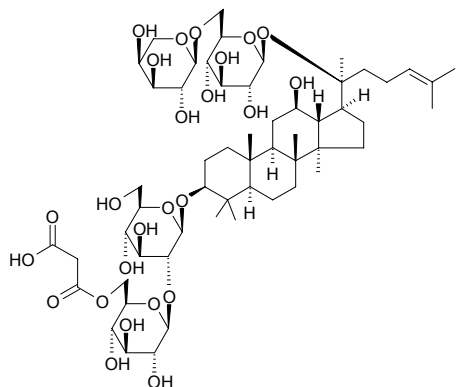
**13440 Malonylawobanin**

[88399-23-9] C₃₉H₃₉O₂₂⁺ (859.73). **Source:** YA ZHI CAO *Commelina communis*. **Ref:** 658.

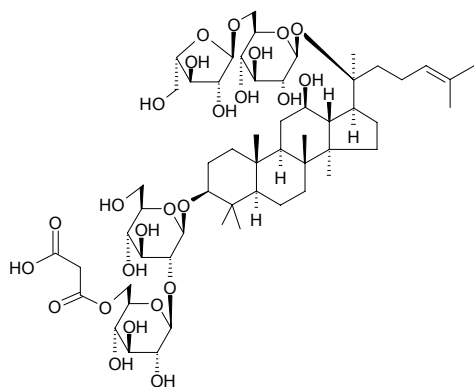


13441 Malonylginsenoside Rb₂

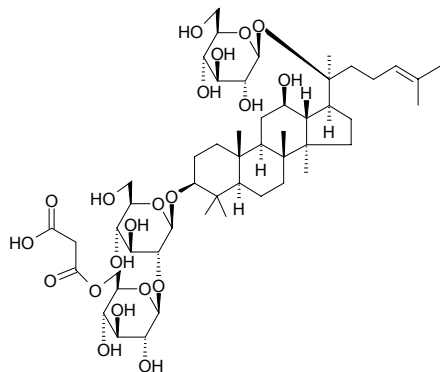
C₅₆H₉₂O₂₅ (1165.34). mp 148~150°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.42%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.21%^[5508]). **Ref:** 2, 524, 5508.

**13442 Malonylginsenoside Rc**

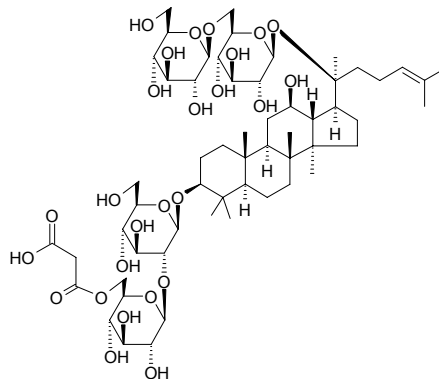
C₅₆H₉₂O₂₅ (1165.34). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2.

**13443 Malonylginsenoside Rd**

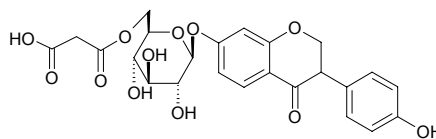
C₅₁H₈₄O₂₁ (1033.23). **Source:** JIAO GU LAN *Gynostemma pentaphyllum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (rhizome: content = 0.35%^[5508]), XI YANG SHEN *Panax quinquefolium* (rhizome: content = 0.27%^[5508]), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (rhizome: content ≈ 0.001%^[5508]). **Ref:** 2, 524, 5508.

**13444 6''-Malonylginsenoside Rd₁**

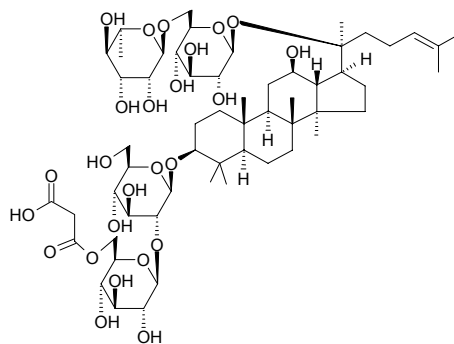
Malonylginsenoside Rb₁ C₅₇H₉₄O₂₆ (1195.37). mp 150~152°C. **Source:** JIAO GU LAN *Gynostemma pentaphyllum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*, JIAO GU LAN *Gynostemma pentaphyllum*. **Ref:** 2, 524, 613.

**13445 7-(6-O-Malonyl-β-D-glucopyransyloxy)-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one**

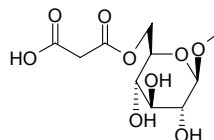
C₂₄H₂₄O₁₂ (504.45). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. **Ref:** 2.

**13446 6''-Malonylgypenoside V**

C₅₇H₉₄O₂₅ (1179.37). **Source:** JIAO GU LAN *Gynostemma pentaphyllum*. **Ref:** 2.

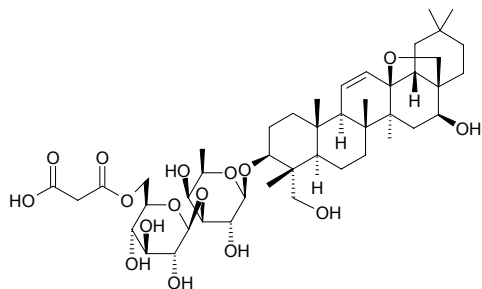
**13447 6-O-malonyl-β-methyl-D-glucopyranoside**

C₁₀H₁₆O₉ (280.23). **Source:** DUN YE SUAN MO *Rumex obtusifolius*. **Ref:** 660.

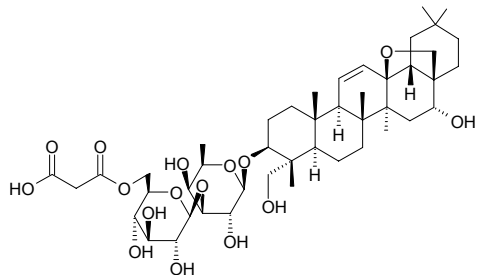


13448 Malonylsaikosaponin A

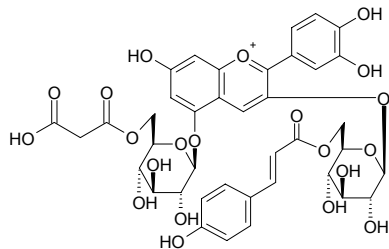
$C_{45}H_{70}O_{16}$ (867.05). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**13449 Malonylsaikosaponin D**

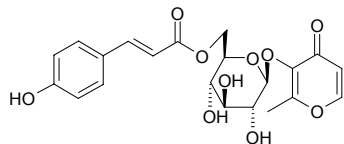
$C_{45}H_{70}O_{16}$ (867.05). Source: ZI HU *Bupleurum falcatum*. Ref: 2247.

**13450 Malonyl shisonin**

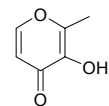
3-*O*-(6-*O*-*p*-coumaryl- β -*D*-glucopyranosyl)-5-*O*-(6-*O*-malonyl- β -*D*-glucopyranosyl)cyanidin $C_{39}H_{39}O_{21}^+$ (843.73). Source: HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 1237.

**13451 Malto-3-*O*-[6'-*O*-(4''-hydroxy-*trans*-cinnamoyl)]- β -*D*-glucopyranoside**

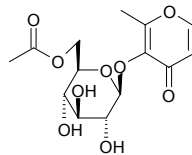
$C_{21}H_{22}O_{10}$ (434.40). Source: HUAI *Sophora japonica* (bud). Ref: 4823.

**13452 Maltol**

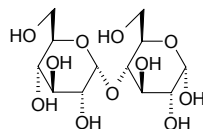
Larixinic acid [118-71-8] $C_6H_6O_3$ (126.11). Source: JIN JI WEI BA CAO GEN *Macrothelypteris oligophlebia*. Ref: 1238.

**13453 Maltol-(6-*O*-acetyl)- β -*D*-glucopyranoside**

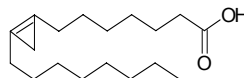
$C_{14}H_{18}O_9$ (330.29). $[\alpha]_D^{25} = -31.9^\circ$ ($c = 0.27$, MeOH). Source: SHUAN CHI QIN *Prangos pabularia*. Ref: 2004.

**13454 Maltose**

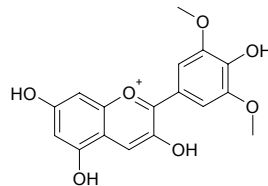
4-*O*- α -*D*-Glucopyranosyl-*D*-glucose; *D*-(+)-Maltose; *D*-Maltose; Finetose; Maltobiose; Maltodiose [69-79-4] $C_{12}H_{22}O_{11}$ (342.30). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**13455 Malvic acid**

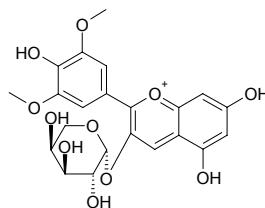
Malvic acid [503-05-9] $C_{18}H_{32}O_2$ (280.45). Oil, mp 10.3~10.5°C. Source: MU JIN ZI *Hibiscus syriacus*. Ref: 6.

**13456 Malvidin**

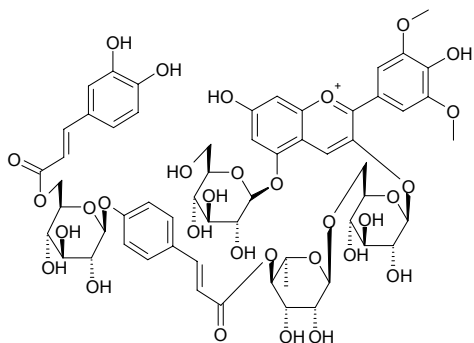
[10463-84-0] $C_{17}H_{15}O_7$ (331.30). Pharm: Pigment (amaranth phytochrome). Source: FENG XIAN HUA *Impatiens balsamina*, JIU Liquor, MU XU *Medicago sativa*, PU⁽³⁾ TAO *Syzygium jambos*. Ref: 6, 658.

**13457 Malvidin-3-arabinoside**

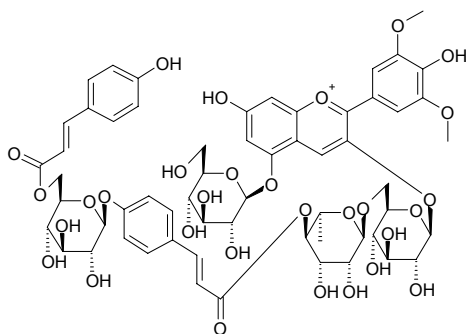
[28500-04-1] $C_{22}H_{23}O_{11}^+$ (463.42). Source: ZI BEI TIAN KUI CAO *Senecio nudicaulis*. Ref: 6.



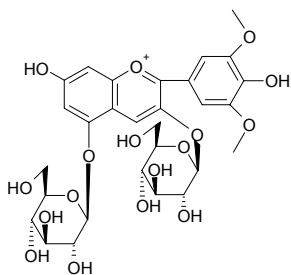
13458 Malvidin 3-O-(6-O-(4-O-(4-O-(6-O-caffeoyl- β -D-glucopyranosyl)-E-p-coumaroyl)- α -rhamnosyl)- β -D-glucopyranoside)-5-O- β -D-glucopyranoside
 $C_{59}H_{67}O_{31}^+$ (1272.17). Source: BI DONG QIE *Petunia hybrida* (flower). Ref: 5240.



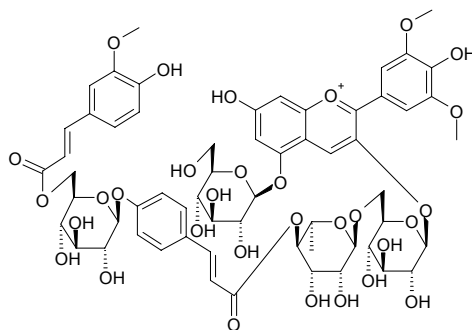
13459 Malvidin 3-O-(6-O-(4-O-(4-O-(6-O-E-p-coumaroyl- β -D-glucopyranosyl)-E-p-coumaroyl)- α -rhamnosyl)- β -D-glucopyranoside)-5- β -D-glucopyranoside
 $C_{59}H_{67}O_{30}^+$ (1256.17). Source: BI DONG QIE *Petunia hybrida* (flower). Ref: 5240.



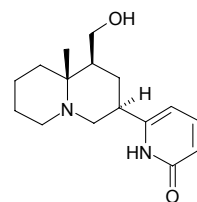
13460 Malvidin-3,5-diglucoside
 Malvin [16727-30-3] $C_{29}H_{35}O_{17}^+$ (655.59). mp 165°C. Pharm: Pigment (amaranth phytochrome). Source: DU JUAN HUA *Rhododendron simsii*, OU JIN KUI *Malva sylvestris*, QIAN QU CAI *Lythrum salicaria*, *Vitis* sp. Ref: 6, 658, 1239.



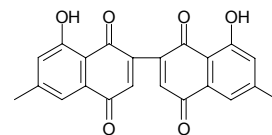
13461 Malvidin 3-O-(6-O-(4-O-(4-O-(6-O-feruloyl- β -D-glucopyranosyl)-E-p-coumaroyl)- α -rhamnosyl)- β -D-glucopyranoside)-5- β -D-glucopyranoside
 $C_{60}H_{69}O_{31}^+$ (1286.20). Source: BI DONG QIE *Petunia hybrida* (flower). Ref: 5240.



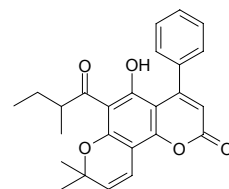
13462 Mamanine
 [60394-92-5] $C_{15}H_{22}N_2O_2$ (262.35). mp 100°C (remelts 171~172°C), $[\alpha]_D^{20} = +31.7^\circ$ ($c = 2.32$, EtOH). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2, 1521.



13463 Mamegakinone
 [17734-93-9] $C_{22}H_{14}O_6$ (374.35). mp 253°C (dec). Source: JUN QIAN ZI *Diospyros lotus* (the compound was isolated from the plant by K.yoshihira, et al. in 1970)^[5505]. Ref: 6, 5505.

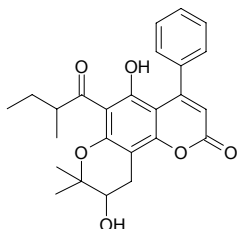


13464 Mamea A/AB cyclo D
 $C_{25}H_{24}O_5$ (404.47). Pharm: Cytotoxic (P_{388} , $ED_{50} > 20\mu\text{g/mL}$, control Ellipticine $ED_{50} = 0.61\mu\text{g/mL}$; KB, $ED_{50} = 15.1\mu\text{g/mL}$, Ellipticine $ED_{50} = 0.54\mu\text{g/mL}$; Col2, $ED_{50} > 20\mu\text{g/mL}$, Ellipticine $ED_{50} = 0.60\mu\text{g/mL}$; Lu1, $ED_{50} > 20\mu\text{g/mL}$, Ellipticine $ED_{50} = 0.61\mu\text{g/mL}$; BCA-1, $ED_{50} > 20\mu\text{g/mL}$, Ellipticine $ED_{50} = 0.52\mu\text{g/mL}$)^[5478]. Source: FEI ZHOU HUANG GUO MU *Mamea africana*, *Mamea harmandii* (leaf and twig), *Mesua thwaitesii*. Ref: 1521, 5478.

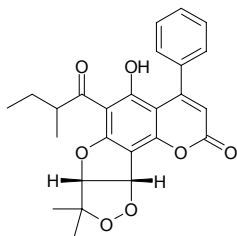


13465 Mammea A/AB cyclo E

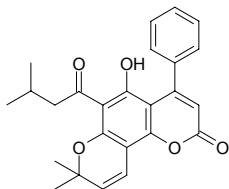
9,10-Dihydro-5,9-dihydroxy-8,8-dimethyl-6-(2-methyl-1-oxobutyl)-4-phenyl-2*H*,8*H*-benzo[1,2-*b*:5,6-*b'*]dipyran-2-one C₂₅H₂₆O₆ (422.48). [α]_D²⁵ = 0° (*c* = 0.2, CHCl₃). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**13466 Mammea A/AB dioxalanocyclo F**

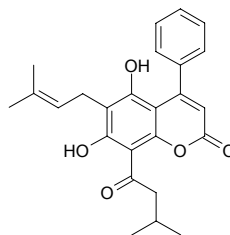
7*a*,10*a*-Dihydro-5-hydroxy-8,8-dimethyl-6-(2-methyl-1-oxobutyl)-4-phenyl-2*H*-8*H*-[1,2]-dioxolano[4",5":4',5']furo[2',3':5,6]benzo[1,2-*b*]pyran-2-one C₂₅H₂₄O₇ (436.47). [α]_D²⁵ = 0° (*c* = 0.06, CHCl₃). **Source:** BU DENG HONG HOU KE *Calophyllum dispar* (fruit and stem cortex). **Ref:** 5196.

**13467 Mammea A/A cyclo D**

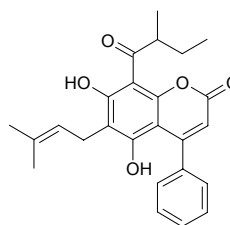
Mammeigin [2289-11-4] C₂₅H₂₄O₅ (404.47). **Pharm:** Cytotoxic inactive (P₃₈₈, ED₅₀ > 20μg/mL, control Ellipticine ED₅₀ = 0.61μg/mL; KB, ED₅₀ > 20μg/mL, Ellipticine ED₅₀ = 0.54μg/mL; Col2, ED₅₀ > 20μg/mL, Ellipticine ED₅₀ = 0.60μg/mL; Lu1, ED₅₀ > 20μg/mL, Ellipticine ED₅₀ = 0.61μg/mL; BCA-1, ED₅₀ > 20μg/mL, Ellipticine ED₅₀ = 0.52μg/mL)^[5478]. **Source:** FEI ZHOU HUANG GUO MU *Mammea africana*, MEI ZHOU MAN MI PING GUO *Mammea americana*, *Mammea harmandii* (leaf and twig), TIE LI MU *Mesua ferrea*. **Ref:** 1240, 1521, 5478.

**13468 Mammea A/BA**

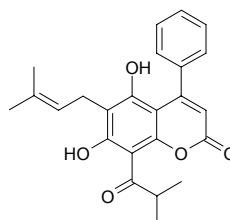
C₂₅H₂₆O₅ (406.48). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 1.94μg/mL, control Ellipticine ED₅₀ = 0.61μg/mL; KB, ED₅₀ = 2.80μg/mL, Ellipticine ED₅₀ = 0.54μg/mL; Col2, ED₅₀ = 3.37μg/mL, Ellipticine ED₅₀ = 0.60μg/mL; Lu1, ED₅₀ = 2.95μg/mL, Ellipticine ED₅₀ = 0.61μg/mL; BCA-1, ED₅₀ = 2.99μg/mL, Ellipticine ED₅₀ = 0.52μg/mL). **Source:** MEI ZHOU MAN MI PING GUO *Mammea Americana* (seeds), *Mammea harmandii* (leaf and twig). **Ref:** 1521, 5478.

**13469 Mammea A/BB**

Isomammeisin C₂₅H₂₆O₅ (406.48). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 2.22μg/mL, control Ellipticine ED₅₀ = 0.61μg/mL; KB, ED₅₀ = 2.58μg/mL, Ellipticine ED₅₀ = 0.54μg/mL; Col2, ED₅₀ = 2.99μg/mL, Ellipticine ED₅₀ = 0.60μg/mL; Lu1, ED₅₀ = 2.14μg/mL, Ellipticine ED₅₀ = 0.61μg/mL; BCA-1, ED₅₀ = 3.19μg/mL, Ellipticine ED₅₀ = 0.52μg/mL)^[5478]; antibacterial (*Enterococcus faecalis* 18292, MIC = 8μg/mL; *Enterococcus faecalis* 19250, MIC = 8μg/mL)^[3870]; antibacterial (*Staphylococcus aureus* 18268, MIC = 16μg/mL; *Staphylococcus aureus* 17380, MIC = 32μg/mL; *Staphylococcus aureus* 17592, MIC = 2μg/mL; *Staphylococcus aureus* 18110, MIC = 2μg/mL; *Staphylococcus aureus* 17547, MIC = 4μg/mL; *Staphylococcus aureus* 17728, MIC = 2μg/mL; *Staphylococcus aureus* 3012, MIC = 2μg/mL; *Staphylococcus aureus* 414, MIC = 4μg/mL; *Staphylococcus epidermidis* 3112, MIC = 2μg/mL; *Staphylococcus epidermidis* 2515, MIC = 4μg/mL; *Staphylococcus saprophyticus* 3010, MIC = 16μg/mL; *Staphylococcus simulans* 214, MIC = 2μg/mL)^[3870]. **Source:** MEI ZHOU MAN MI PING GUO *Mammea Americana* (seeds), TIE LI MU *Mesua ferrea* (blossom), *Mammea harmandii* (leaf and twig). **Ref:** 1521, 3870, 5478.

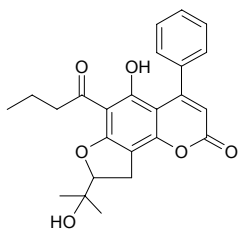
**13470 Mammea A/BD**

Isomesuol C₂₄H₂₄O₅ (392.46). White powder, mp 167~169°C (CH₂Cl₂-hexane). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 2.53μg/mL, control Ellipticine ED₅₀ = 0.61μg/mL; KB, ED₅₀ = 2.48μg/mL, Ellipticine ED₅₀ = 0.54μg/mL; Col2, ED₅₀ = 3.42μg/mL, Ellipticine ED₅₀ = 0.60μg/mL; Lu1, ED₅₀ = 2.33μg/mL, Ellipticine ED₅₀ = 0.61μg/mL; BCA-1, ED₅₀ = 6.51μg/mL, Ellipticine ED₅₀ = 0.52μg/mL)^[5478]. **Source:** TIE LI MU *Mesua ferrea*, *Mammea harmandii* (leaf and twig). **Ref:** 1521, 5478.

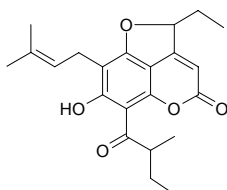


13471 Mammea A/AC cyclo F

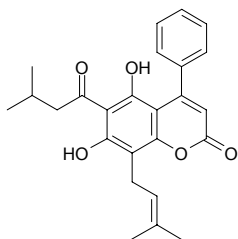
$C_{24}H_{24}O_6$ (408.46). Yellow prisms (C_6H_{14} :EtOAc = 9:1), mp 119.0°C, $[\alpha]_D = 0^\circ$ ($c = 4.5$, $CHCl_3$). Source: ZONG ZHUANG TIE LI MU *Mesua racemosa*. Ref: 1871.

**13472 Mammearin A**

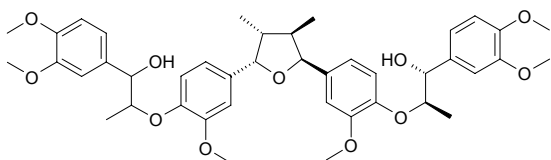
$C_{22}H_{26}O_5$ (370.45). White powder, mp 110~111°C (CH_2Cl_2 :hexane), $[\alpha]_D^{29} = +14.0^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Cytotoxic (P_{388} , $ED_{50} > 20\mu g/mL$, control Ellipticine $ED_{50} = 0.61\mu g/mL$; KB, $ED_{50} = 14.49\mu g/mL$, Ellipticine $ED_{50} = 0.54\mu g/mL$; Col2, $ED_{50} = 16.79\mu g/mL$, Ellipticine $ED_{50} = 0.60\mu g/mL$; Lu1, $ED_{50} > 20\mu g/mL$, Ellipticine $ED_{50} = 0.61\mu g/mL$; BCA-1, $ED_{50} > 20\mu g/mL$, Ellipticine $ED_{50} = 0.52\mu g/mL$). Source: *Mammea harmandii* (leaf and twig). Ref: 5478.

**13473 Mammeisin**

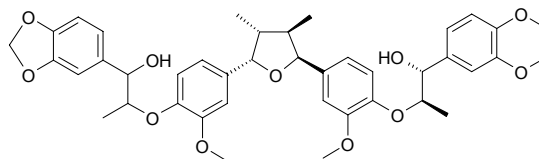
[18483-64-2] $C_{25}H_{26}O_5$ (406.48). Pharm: Cytotoxic (*in vitro*). Source: FEI ZHOU HUANG GUO MU *Mammea africana*. Ref: 658.

**13474 Manassantin A**

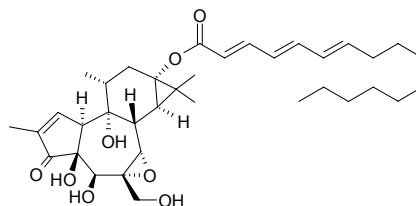
$C_{42}H_{52}O_{11}$ (732.88). Colorless powder, mp 82~85°C, $[\alpha]_D^{25} = -102.1^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Anti-inflammatory (NF- κ B inhibitor, $IC_{50} = 2.5\mu mol/L$)^[3453]; inhibits PMA-induced ICAM-1 expression (MIC = 1.0nmol/L)^[5492]. Source: SAN BAI CAO *Saururus chinensis* (root), YU XING CAO *Houttuynia cordata*, *Saururus* sp. Ref: 3453, 5492, 2428.

**13475 Manassantin B**

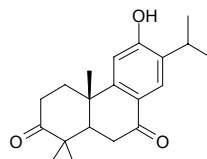
$C_{41}H_{48}O_{11}$ (716.83). Colorless powder, mp 83~86°C, $[\alpha]_D^{25} = -99.8^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Anti-inflammatory (NF- κ B inhibitor, $IC_{50} = 2.7\mu mol/L$)^[3453]; inhibits PMA-induced ICAM-1 expression (MIC = 5.5nmol/L)^[5492]. Source: SAN BAI CAO *Saururus chinensis* (root), YU XING CAO *Houttuynia cordata*, *Saururus* sp. Ref: 3453, 5492, 2428.

**13476 Mancinellin**

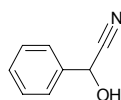
[57672-76-1] $C_{36}H_{52}O_8$ (612.81). Pharm: Carcinogen promotor; irritant; supertoxic agent. Source: MA FENG MU *Hippomane mancinella*. Ref: 658.

**13477 Mandarone A**

(5*R*,10*S*)-12-Hydroxy-8,11,13-abietatriene-3,7-dione $C_{20}H_{26}O_3$ (314.43). Yellowish rectangles, mp 212~214°C ($CHCl_3$). Source: HAI TONG *Clerodendrum mandarinorum*. Ref: 2333.

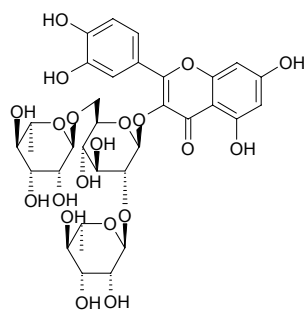
**13478 Mandelonitrile**

2-Hydroxy-2-phenylacetone nitrile [532-28-5] C_8H_7NO (133.15). mp (+) 28.5~29.5°C. Source: XING REN *Prunus armeniaca*. Ref: 2, 660.

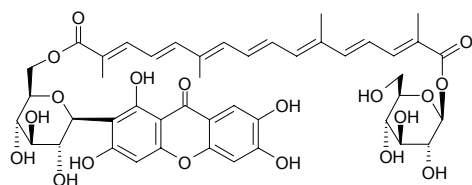


13479 Manghaslin

Quercetin-3-*O*- α -L-rhamnopyranosyl (1 \rightarrow 2)-[α -L-rhamnopyranosyl(1 \rightarrow 6)]- β -D-glucopyranoside [55696-57-6] C₃₃H₄₀O₂₀ (756.67). **Pharm:** Antioxidant (DPPH scavenger, SC₅₀ = 5.6 μ mol/L, positive control Vitamin E, SC₅₀ = 5.2 mmol/L)^[4464]; DPPH scavenger (SC₅₀ = 13 μ mol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 3.9 μ mol/L)^[4247]. **Source:** JIN ZHAN JU *Calendula officinalis* (flower), KUAN YE XIANG PU *Typha latifolia*, LAO YA SHI *Diospyros rhombifolia* (leaf), LV DOU *Onobrychis viciifolia* (leaf), NIU XIN QIE ZI *Cerbera manghas*, PU HUANG *Typha angustata*, XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.003%). **Ref:** 1521, 3551, 4041, 4247, 4464, 5084.

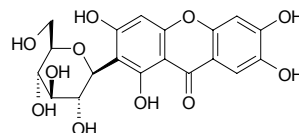
**13480 Mangicrocin**

[122575-51-3] C₄₅H₅₀O₁₉ (894.89). [α]_D²⁸ = +17.5° (*c* = 0.53, MeOH) **Source:** ZANG HONG HUA *Crocus sativus*. **Ref:** 1521.

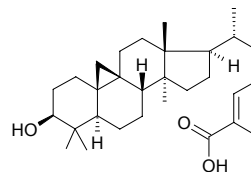
**13481 Mangiferin**

Chimonin; Euxanthogen; 2- β -D-Glucosyl-1,3,6,7-tetrahydroxyxanthone [4773-96-0] C₁₉H₁₈O₁₁ (422.35). mp 271~273°C. **Pharm:** Antihepatotoxic; anti-inflammatory (rat, tampon granuloma model and swollen foot model caused by carrageenan, orl or ip, 50mg/kg); tuberculostatic (*Mycobacterium tuberculosis*, MIC = 200 μ g/mL); antiviral (herpes simplex virus); choleric and antihepatotoxic (main effective component in Tibet Wormwood, ZANG YIN CHEN, used to treat hepatitis); CNS depressant (rat and mus, 50~200mg/kg ip); antioxidant (DPPH scavenger, for 40 μ mol/L DPPH radical, SC₅₀ = 5.9 μ mol/L)^[4378]. **Source:** AN SHI JIN SI TAO *Hypericum ancherii*, BEI JING SHI WEI *Pyrrosia davidii*, BIAN TAO *Mangifera persiciformis*, CHUAN XI ZHANG YA CAI *Swertia mussotii*, DI TAO HUA *Urena lobata*, GUANG SHI WEI *Pyrrosia calvata* (dried leaf: content = 11.4%)^[5508], LU SHAN SHI WEI *Pyrrosia sheareri* (dried leaf: mean content = 0.16%)^[5508], MANG GUO *Mangifera indica*, MANG GUO YE *Mangifera indica* (leaf: mean content of 3 origins = 1.76%)^[5508], MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*], NI GUANG SHI WEI

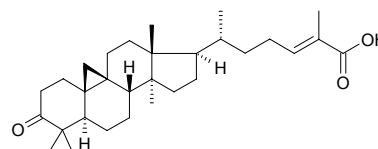
Pyrrosia pseudocalvata (dried leaf: content = 0.19%)^[5508], SHE GAN *Belamcanda chinensis* (dried rhizome), SHI WEI *Pyrrosia lingua* (dried leaf: content scope = 0.01%~0.34%)^[5501], mean content = 0.029%^[5508], SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), YOU BING SHI WEI *Pyrrosia petiolosa* (dried leaf: content = 0.035%)^[5508], ZHI MU *Anemarrhena asphodeloides* (dried rhizome: content scope of 8 origins = 0.60%~2.38%, mean content = 1.48%)^[5508]. **Ref:** 4, 6, 550, 658, 660, 4378, 5485, 5501, 5508.

**13482 Mangiferolic acid**

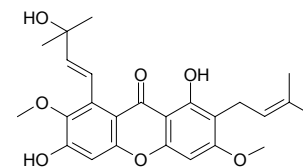
[4184-34-3] C₃₀H₄₈O₃ (456.72). mp 181~183°C. **Source:** DI FENG PI *Illicium difengpi*, MANG GUO SHU PI *Mangifera indica*. **Ref:** 6, 395.

**13483 Mangiferonic acid**

[13878-90-5] C₃₀H₄₆O₃ (454.70). mp 184~187°C. **Source:** DI FENG PI *Illicium difengpi*, MANG GUO SHU PI *Mangifera indica*. **Ref:** 6, 395.

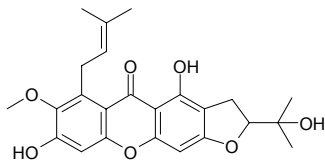
**13484 Mangostanin**

C₂₅H₂₈O₇ (440.50). Yellow solid, mp 215~217°C, [α]_D = -0.7° (*c* = 1.17, CHCl₃). **Pharm:** Cytotoxic (KB cancer cell lines, inactive; BC-1, inactive; NCI-H187, IC₅₀ = 8.04 μ g/mL Ellipticine, IC₅₀ = 0.39 μ g/mL)^[1619]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0021%dw)^[1619]. **Ref:** 1619, 1964.

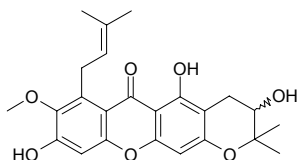


13485 Mangostanin A

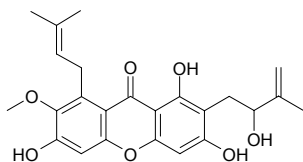
$C_{24}H_{26}O_7$ (426.47). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 25 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit). **Ref:** 4358.

**13486 Mangostanol**

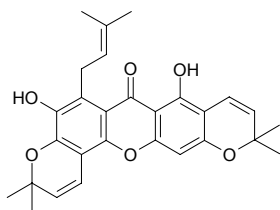
$C_{24}H_{26}O_7$ (426.47). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 200 μ g/mL)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit, fruit hull). **Ref:** 3066, 4358.

**13487 Mangostenol**

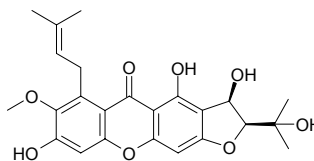
$C_{24}H_{26}O_7$ (426.47). **Pharm:** Cytotoxic (KB cancer cell lines, inactive; BC-1, inactive; NCI-H187, IC₅₀ = 1.15 μ g/mL Ellipticine, IC₅₀ = 0.39 μ g/mL)^[1619]; antitubercular (*Mycobacterium tuberculosis*, MIC = 100 μ g/mL)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0030%dw)^[1619]. **Ref:** 1619, 4358.

**13488 Mangostenone A**

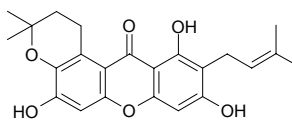
$C_{28}H_{28}O_6$ (460.53). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 25 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit). **Ref:** 4358.

**13489 Mangostenone C**

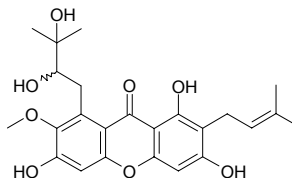
$C_{24}H_{26}O_8$ (442.47). Yellow solid, mp 126–127°C, $[\alpha]_D^{27} = -28.3^\circ$ ($c = 0.12$, MeOH). **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 2.8 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 3.53 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, IC₅₀ = 3.72 μ g/mL, Ellipticine, IC₅₀ = 0.39 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0014%dw). **Ref:** 1619.

**13490 Mangostenone D**

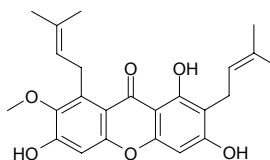
$C_{23}H_{24}O_6$ (396.44). Yellow solid, mp 208–210°C. **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 9.79 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 3.88 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, IC₅₀ = 9.07 μ g/mL, Ellipticine, IC₅₀ = 0.39 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.002%dw). **Ref:** 1619.

**13491 Mangostenone E**

$C_{24}H_{28}O_8$ (444.49). Yellow amorphous solid, $[\alpha]_D^{28} = 0.0^\circ$ ($c = 0.13$, MeOH). **Pharm:** Cytotoxic (KB cancer cell lines, IC₅₀ = 19.96 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 17.53 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, inactive). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.003%dw). **Ref:** 1619.

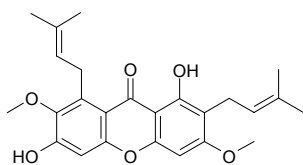
**13492 Mangostin**

α -Mangostin [6147-11-1] $C_{24}H_{26}O_6$ (410.47). **Pharm:** Anti-inflammatory; antimicrobial; antiulcerative (*in vitro*); antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 18%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antioxidant inactive (DPPH scavenger, 50 μ mol/L, ScRt = 5.2%; control BHT, 50 μ mol/L, ScRt = 51.7%, IC₅₀ = 28.9 μ mol/L)^[4423]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 4 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC = 4 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]; antitubercular (*Mycobacterium tuberculosis*, MIC = 6.25 μ g/mL)^[4358]; cytotoxic (*in vitro*, HL-60, IC₅₀ = 6.8 μ mol/L, 10 μ mol/L, InRt = 100%, through the induction of apoptosis)^[4715]; cytotoxic (KB cancer cell lines, IC₅₀ = 2.08 μ g/mL, control Ellipticine, IC₅₀ = 1.33 μ g/mL; BC-1, IC₅₀ = 0.92 μ g/mL, Ellipticine, IC₅₀ = 1.46 μ g/mL; NCI-H187, IC₅₀ = 2.87 μ g/mL Ellipticine, IC₅₀ = 0.39 μ g/mL)^[1619]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 2.32%dw)^[1619], DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], DAO NIAN ZI *Garcinia mangostana* (pericarp)^[4715], HUANG NIU MU *Cratoxylum cochinchinense* (root), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 658, 1619, 3066, 4358, 4422, 4423, 4715, 5319.

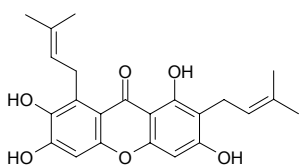


13493 β -Mangostin

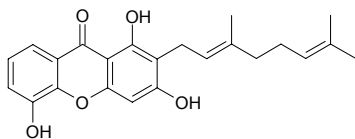
$C_{23}H_{28}O_6$ (424.50). **Pharm:** Cytotoxic (KB cancer cell lines, $IC_{50} = 2.5\mu\text{g/mL}$, control Ellipticine, $IC_{50} = 1.33\mu\text{g/mL}$; BC-1, $IC_{50} = 2.04\mu\text{g/mL}$, Ellipticine, $IC_{50} = 1.46\mu\text{g/mL}$; NCI-H187, $IC_{50} = 2.88\mu\text{g/mL}$ Ellipticine, $IC_{50} = 0.39\mu\text{g/mL}$)^[1619]; cytotoxic (*in vitro*, HL-60, $IC_{50} = 7.6\mu\text{mol/L}$)^[4715]; antitubercular (*Mycobacterium tuberculosis*, MIC = $6.25\mu\text{g/mL}$)^[4358]; antioxidant inactive (DPPH scavenger, $10\mu\text{mol/L}$, ScRt = 2%; control BHT, $10\mu\text{mol/L}$, ScRt = 43%, $IC_{50} = 19.00\mu\text{mol/L}$)^[4422]; antioxidant inactive (DPPH scavenger, $50\mu\text{mol/L}$, ScRt = 1.7%; control BHT, $50\mu\text{mol/L}$, ScRt = 51.7%, $IC_{50} = 28.9\mu\text{mol/L}$)^[4423]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull), DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0017%dw)^[1619], HUANG NIU MU *Cratogeomys cochinchinense* (root), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 1619, 3066, 4358, 4422, 4423, 4715.

**13494 γ -Mangostin**

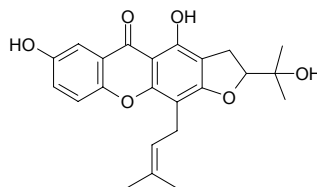
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Cytotoxic (KB cancer cell lines, $IC_{50} = 4.69\mu\text{g/mL}$, control Ellipticine, $IC_{50} = 1.33\mu\text{g/mL}$; BC-1, $IC_{50} = 1.6\mu\text{g/mL}$, Ellipticine, $IC_{50} = 1.46\mu\text{g/mL}$; NCI-H187, $IC_{50} = 2.55\mu\text{g/mL}$ Ellipticine, $IC_{50} = 0.39\mu\text{g/mL}$)^[1619]; cytotoxic (*in vitro*, HL-60, $IC_{50} = 6.1\mu\text{mol/L}$)^[4715]; antitubercular (*Mycobacterium tuberculosis*, MIC = $25\mu\text{g/mL}$)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit, fruit hull), DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.30%dw)^[1619]. **Ref:** 1619, 3066, 4358, 4715.

**13495 Mangostinone**

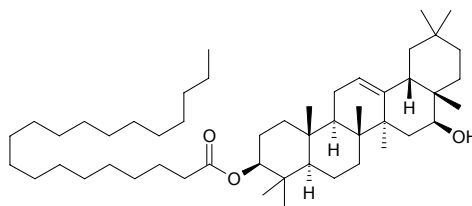
$C_{23}H_{24}O_5$ (380.44). **Pharm:** Cytotoxic (KB cancer cell lines, $IC_{50} = 12.79\mu\text{g/mL}$, control Ellipticine, $IC_{50} = 1.33\mu\text{g/mL}$; BC-1, $IC_{50} = 7.26\mu\text{g/mL}$, Ellipticine, $IC_{50} = 1.46\mu\text{g/mL}$; NCI-H187, $IC_{50} = 17.88\mu\text{g/mL}$ Ellipticine, $IC_{50} = 0.39\mu\text{g/mL}$)^[1619]; cytotoxic (*in vitro*, HL-60, $IC_{50} = 19.0\mu\text{mol/L}$)^[4715]; antitubercular (*Mycobacterium tuberculosis*, MIC = $200\mu\text{g/mL}$)^[4358]. **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0042%dw)^[1619], YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 1619, 4358, 4715, 5281.

**13496 Mangoxanthone**

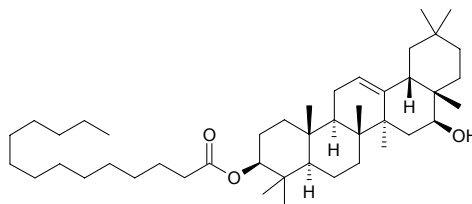
$C_{23}H_{24}O_6$ (396.44). Yellow needles, mp 195–197°C (acetone–hexane), $[\alpha]_D = -40.0^\circ$ ($c = 0.62$, acetone). **Source:** DAO NIAN ZI *Garcinia mangostana* (heartwood). **Ref:** 5311.

**13497 Maniladiol 3-O-eicosanoate**

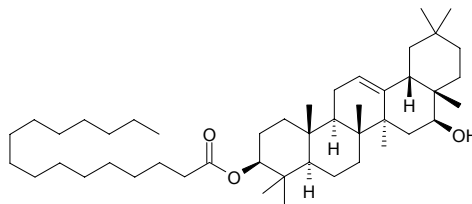
$C_{50}H_{88}O_3$ (737.26). mp 93–94°C, $[\alpha]_D = +39.2^\circ$ ($c = 0.1$, CHCl_3). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**13498 Maniladiol 3-O-myristate**

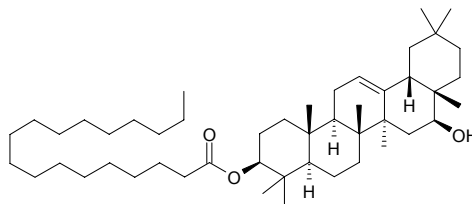
$C_{44}H_{76}O_3$ (653.09). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

**13499 Maniladiol 3-O-palmitate**

$C_{46}H_{80}O_3$ (681.15). Colorless powder. **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

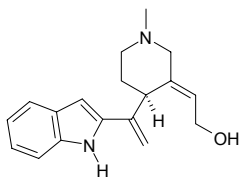
**13500 Maniladiol 3-O-stearate**

$C_{48}H_{84}O_3$ (709.20). **Source:** SAI ER WEI YA SHI CAO *Achillea alexandri-regis* (dried aerial parts). **Ref:** 2545.

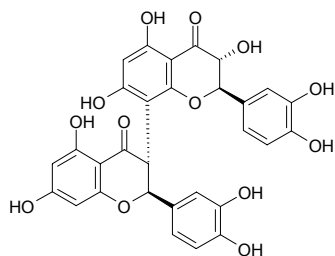


13501 (+)-Manilamine

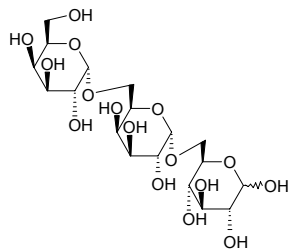
2-[4-[1-(1*H*-Indol-2-yl)-vinyl]-1-methyl-piperidin-3-ylidene} ethanol
 $C_{18}H_{22}N_2O$ (282.39). Flesh-colored (beige) amorphous solid, mp 88–92°C,
 $[\alpha]_D = +15.5^\circ$ ($c = 0.50$, MeOH). Source: XIANG PI MU *Alstonia scholaris*
 (leaf). Ref: 5283.

**13502 Manniflavanone**

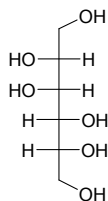
[73428-17-8] $C_{30}H_{22}O_{13}$ (590.50). Pharm: Aldose reductase inhibitor (eye lens); used in treatment of diseases due to maladjustment of blood capillary permeability. Source: MAN TENG HUANG *Garcinia mannii*. Ref: 658.

**13503 Mannitriose**

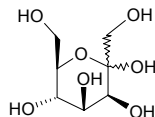
[13382-86-0] $C_{18}H_{32}O_{16}$ (504.45). Source: XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 1241.

**13504 D-Mannitol**

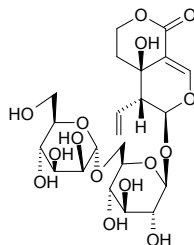
[69-65-8] $C_6H_{14}O_6$ (182.17). mp (–) 166°C. Pharm: Diuretic (administered by injection to supplement other diuretics in the treatment of edema, to treat some kidney disorders and to relieve intracranial pressure in brain injuries). Source: DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content scope = 0.37%~14.45%^[5501]), FA GUO CHENG LIU *Tamarix gallica*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], HU HUANG LIAN *Picrorhiza kurrooa*, HUA BAI LA SHU *Fraxinus ornus*, KUN BU *Laminaria japonica* (dried thallus: content = 7.21%^[5501]), NIU SHE TOU *Sonchus arvensis*, NV ZHEN ZI *Ligustrum lucidum*, PU HUANG *Typha angustata*, SAN TAI HONG HUA *Clerodendron serratum*, SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, TIAN NAN XING *Arisaema consanguineum*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora*, YA ZHI CAO *Commelina communis*, YI ZHI XIANG *Veronica spuria*, ZHAN LONG JIAN *Veronicastrum sibiricum*, ZHI Phasianus *colchicus*. Ref: 2, 373, 502, 658, 660, 5501.

**13505 D-Mannoheptulose**

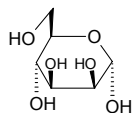
[3615-44-9] $C_7H_{14}O_7$ (210.19). mp 152°C. Source: YING SU KE *Papaver somniferum*. Ref: 6, 1521.

**13506 6'-O-α-D-Mannopyranosylswertiamarin**

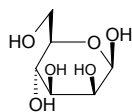
$C_{22}H_{32}O_{15}$ (536.49). Amorphous powder, $[\alpha]_D^{25} = -28.1^\circ$ ($c = 0.09$, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2573.

**13507 Mannose**

$C_6H_{12}O_6$ (180.16). Pharm: Reagent used in biochemistry research. Source: CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, GUAN HUA DANG SHEN *Codonopsis tubulosa*, HUANG JING *Polygonatum sibiricum*, HUI MAO DANG SHEN *Codonopsis canescens*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], QIU HUA DANG SHEN *Codonopsis subglobosa*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2, 658, 660.

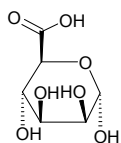
**13508 Mannose-b**

$C_6H_{12}O_6$ (180.16). Source: LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

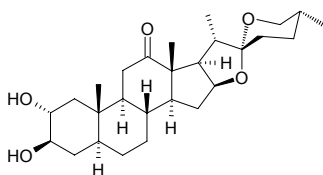


13509 D-Mannuronic acid

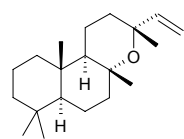
[6814-36-4] C₆H₁₀O₇ (194.14). mp (α) 120~130°C, (β) 165~167°C. Source: LUO LE ZI *Ocimum basilicum*. Ref: 6.

**13510 Manogenin**

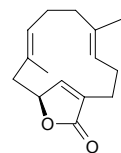
[564-43-2] C₂₇H₄₂O₅ (446.63). Crystals (Me₂CO), mp 245~247°C, [α]_D = -5° (CHCl₃). Source: DONG YI HAO JIAN MA *Agave east-one*, DUAN YE LONG SHE LAN *Agave angustifolia*, FAN MA *Agave americana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*. Ref: 10.

**13511 Manoyloxide**

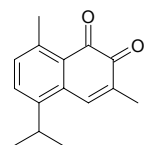
C₂₀H₃₄O (290.49). [α]_D²⁶ = +22° (c = 1.0, CHCl₃). Source: XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5400.

**13512 Manshuriolide**

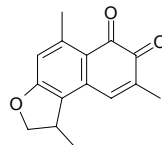
C₁₅H₂₂O₂ (232.33). Source: GUAN MU TONG *Aristolochia manshuriensis*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem; yield = 0.0049%dw). Ref: 1521, 3026.

**13513 Mansonone C**

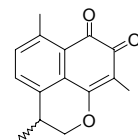
[5574-34-5] C₁₅H₁₆O₂ (228.29). Crystals (hexane), mp 134~138°C. Pharm: Antifungal; plant antitoxin from seeds and seedling of elm. Source: SHAN YU *Ulmus glabra*, LANG YU PI *Ulmus parvifolia*, YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 6, 658, 660, 2069.

**13514 Mansonone D**

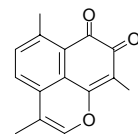
[5090-86-8] C₁₅H₁₄O₃ (242.28). mp 73~75°C. Pharm: Antineoplastic (hmn thymocyte MCF7); inhibits cytochrome C and P450; antioxidant, inhibits lipid peroxidation. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069, 2074.

**13515 Mansonone E**

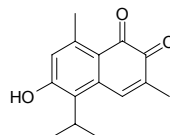
[5090-87-9] C₁₅H₁₄O₃ (242.28). mp 148~149°C. Source: LANG YU PI *Ulmus parvifolia*, SHAN ZHI MA *Helicteres angustifolia*, TAI WAN FU RONG *Hibiscus taiwanensis*, YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 660, 2069, 2529.

**13516 Mansonone F**

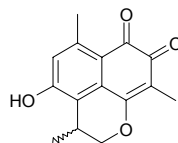
[5090-88-0] C₁₅H₁₂O₃ (240.26). mp 214~215°C. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069.

**13517 Mansonone G**

[7715-96-0] C₁₅H₁₆O₃ (244.29). mp 210~213°C. Source: LANG YU PI *Ulmus parvifolia*. Ref: 6, 660.

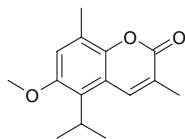
**13518 Mansonone H**

C₁₅H₁₄O₄ (258.28). Pharm: Anti-HIV (H9 lymphocytic cells, inhibits replication, IC₅₀ (concentration that inhibits uninfected H9 cell growth by 50%) > 25µg/mL, EC₅₀ (concentration that inhibits viral replication by 50%) = 16.58µg/mL, TI(IC₅₀/EC₅₀) = 1.50, control AZT IC₅₀ = 500µg/mL, EC₅₀ = 0.0007µg/mL, TI = 740000); cytotoxic (hmn, A549 EC₅₀ = 10.5µg/mL, MCF7 EC₅₀ = 10.7µg/mL). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

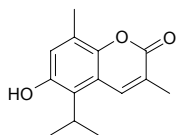


13519 Mansonrin A

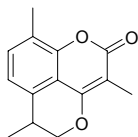
3,8-Dimethyl-5-isopropyl-6-methoxycoumarin C₁₅H₁₈O₃ (246.31). Pale yellow crystals, mp 135~137°C. Source: MAN SUO NI YA XIN CAI *Mansonia gagei*. Ref: 1969.

**13520 Mansonrin B**

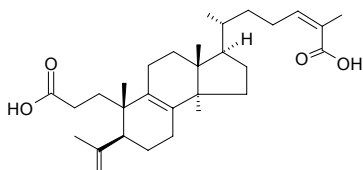
3,8-Dimethyl-5-isopropyl-6-hydroxycoumarin C₁₄H₁₆O₃ (232.28). Pale yellow crystals, mp 202~204°C. Source: MAN SUO NI YA XIN CAI *Mansonia gagei*. Ref: 1969.

**13521 Mansonrin C**

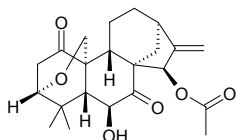
2,3-Dihydro-3,6,9-trimethyl naphtho[1,8-bc]pyran-7-oxa-8-one C₁₄H₁₄O₃ (230.27). White crystals, mp 150~151°C. Source: MAN SUO NI YA XIN CAI *Mansonia gagei*. Ref: 1969.

**13522 Manwuweizic acid**

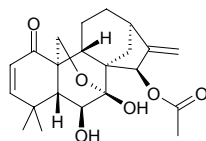
[116963-87-2] C₃₀H₄₆O₄ (470.70). Needles (MeOH), crystals (CHCl₃-petroleum ether), mp 182~184°C, mp 191~193°C, [α]_D¹⁷ = +62.7° (c = 0.08, CHCl₃), [α]_D¹⁵ = +54.3° (c = 0.291, CHCl₃). Pharm: Cytotoxic. Source: YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], ZHONG JIAN WU WEI ZI *Schisandra propinqua* var. *intermedia*. Ref: 1242, 1521.

**13523 Maoecrystal A**

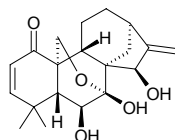
C₂₂H₂₈O₆ (388.46). mp 168~170°C, [α]_D¹⁵ = -68° (c = 1.0, C₅H₅N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*, SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.046%dw). Ref: 4067, 4668.

**13524 Maoecrystal B**

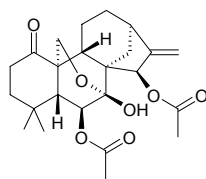
Rabdosianone II C₂₂H₂₈O₆ (388.46). mp 196~199°C, [α]_D¹⁵ = -94° (c = 1.0, C₅H₅N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13525 Maoecrystal C**

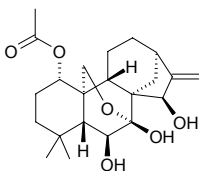
C₂₀H₂₆O₅ (346.43). mp 204~206°C, [α]_D¹⁵ = -95.5° (c = 1.0, C₅H₅N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13526 Maoecrystal D**

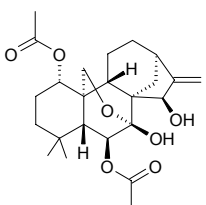
Rabdolongin B C₂₄H₃₂O₇ (432.52). mp 178~180°C, [α]_D¹⁵ = +13° (c = 1.0, C₅H₅N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 660, 1521, 4067.

**13527 Maoecrystal E**

C₂₂H₃₂O₆ (392.50). mp 236~238°C. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

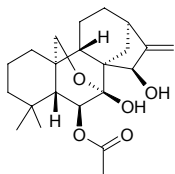
**13528 Maoecrystal F**

C₂₄H₃₄O₇ (434.53). mp 218~219°C. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

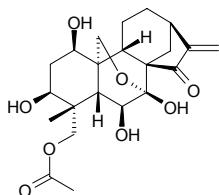


13529 Maoecrystal G

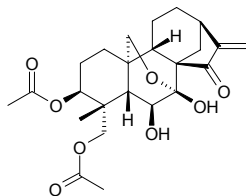
$C_{22}H_{32}O_5$ (376.50). mp 205~207°C. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). Ref: 3808, 4067.

**13530 Maoecrystal I**

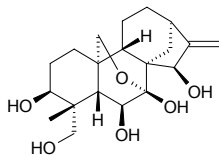
$C_{22}H_{30}O_8$ (422.48). mp 205~206°C. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13531 Maoecrystal J**

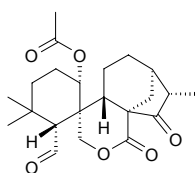
$C_{24}H_{32}O_8$ (448.52). mp 249~250°C, $[\alpha]_D = -49.2^\circ$ ($c = 1.0$, MeOH). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13532 Maoecrystal K**

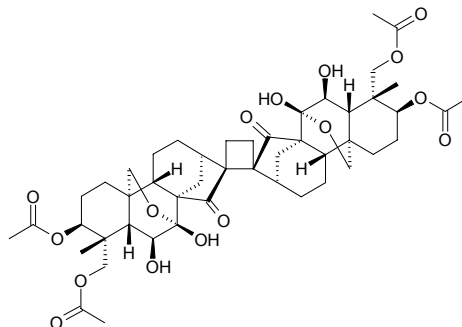
$C_{20}H_{30}O_6$ (366.46). mp 191.5~193°C, $[\alpha]_D^{26.5} = -1.3^\circ$ ($c = 1.0$, MeOH). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13533 Maoecrystal L**

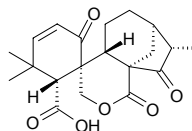
$C_{22}H_{30}O_6$ (390.48). mp 217°C. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13534 Maoecrystal M**

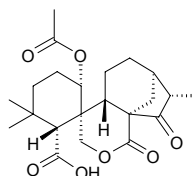
[156250-60-1] $C_{48}H_{64}O_{16}$ (897.04). mp > 300°C, $[\alpha]_D^{22} = +44^\circ$ ($c = 0.2$, C_5H_5N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13535 Maoecrystal N**

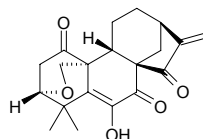
$C_{20}H_{24}O_6$ (360.41). mp 290~292°C, $[\alpha]_D^{25} = +167.83^\circ$ ($c = 0.36$, C_5H_5N). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13536 Maoecrystal O**

$C_{22}H_{30}O_7$ (406.48). mp 268.5~270°C, $[\alpha]_D^{25} = -3.66^\circ$ ($c = 0.41$, $CHCl_3$). Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13537 Maoecrystal P**

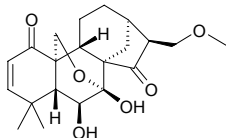
$C_{20}H_{22}O_5$ (342.4). mp 234~236°C, $[\alpha]_D^{25} = -141.7^\circ$ ($c = 0.30$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 0.132\mu g/mL$; A549, $IC_{50} = 69.5\mu g/mL$; T24, $IC_{50} = 0.051\mu g/mL$; control *cis*-Platin: K562, $IC_{50} = 2.02\mu g/mL$; A549, $IC_{50} = 11.94\mu g/mL$; T24, $IC_{50} = 1.16\mu g/mL$)^[4668]. Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*, SHU HUA MAO E XIANG CHA CAI *Isodon eriocalyx* var. *laxiflora* (leaf: yield = 0.00040%dw). Ref: 4067, 4668.



13538 Maocrystal Q

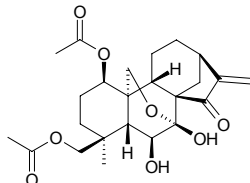
$C_{21}H_{28}O_6$ (376.45). mp 180.0~182.5°C, $[\alpha]_D^{25} = -117.5^\circ$ ($c = 0.283$, $CHCl_3$).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13539 Maocrystal R**

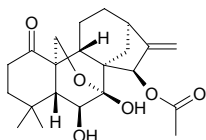
$C_{24}H_{32}O_8$ (448.52). mp 97.5~100°C, $[\alpha]_D^{25} = -22.3^\circ$ ($c = 0.382$, $CHCl_3$).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13540 Maocrystal S**

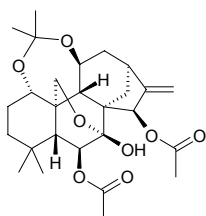
$C_{22}H_{30}O_6$ (390.48). mp 170.5~172.0°C, $[\alpha]_D^{25} = +43.5^\circ$ ($c = 0.506$, $CHCl_3$).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13541 Maocrystal T**

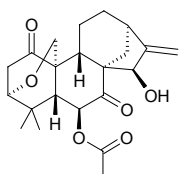
$C_{27}H_{38}O_8$ (490.60). mp 237.5~239°C, $[\alpha]_D^{25} = -129.3^\circ$ ($c = 0.379$, $CHCl_3$).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13542 Maocrystal U**

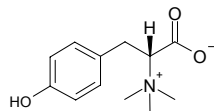
$C_{22}H_{28}O_6$ (388.46). mp 250~252.5°C, $[\alpha]_D^{18} = -112.9^\circ$ ($c = 0.62$, $CHCl_3$).

Source: MAO E XIANG CHA CAI *Rabdosia eriocalyx*. Ref: 4067.

**13543 Maokonine**

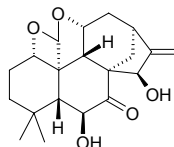
$C_{12}H_{17}NO_3$ (232.27). Colorless prismatic crystals (methanol), mp 257~259°C,

$[\alpha]_D = +68.2^\circ$ ($c = 0.44$, water). Pharm: Increases blood pressure (anesthetic rat). Source: MA HUANG *Ephedra sinica*. Ref: 661.

**13544 Maoyecrystal I**

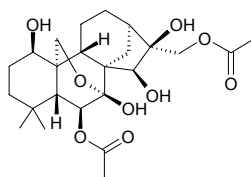
$C_{20}H_{26}O_5$ (346.43). White amorphous powder, $[\alpha]_D^{25.2} = -32.47^\circ$ ($c = 0.15$,

MeOH). Pharm: Cytotoxic (K562 cells, $IC_{50} = 7.30\mu g/mL$, positive control *cis*-Platinum, $IC_{50} = 1.14\mu g/mL$). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4998.

**13545 Maoyerabdosin**

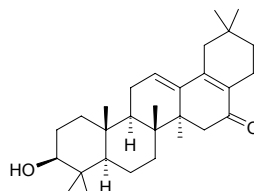
$C_{24}H_{36}O_9$ (468.55). mp 243~245°C, $[\alpha]_D^{22} = -30^\circ$ ($c = 0.1$, MeOH). Source:

MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

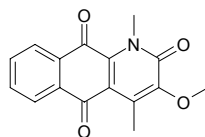
**13546 Maragenin II**

[71545-20-5] $C_{29}H_{44}O_2$ (424.67). Source: SHAN CHA *Camellia japonica*.

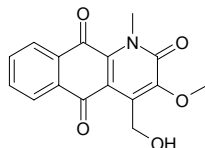
Ref: 1243.

**13547 Marcanine B**

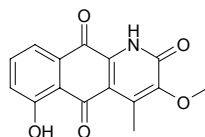
$C_{16}H_{13}NO_4$ (283.29). Source: *Goniothalamus* sp. Ref: 2447.

**13548 Marcanine C**

$C_{16}H_{13}NO_5$ (299.29). Source: *Goniothalamus* sp. Ref: 2447.

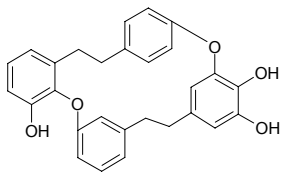
**13549 Marcanine D**

$C_{15}H_{11}NO_5$ (285.26). Source: *Goniothalamus* sp. Ref: 2447.

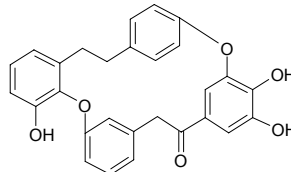


13550 Marchantin A

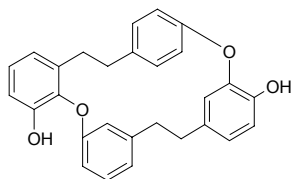
[88418-46-6] C₂₈H₂₄O₅ (440.50). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13555 Marchantin G**

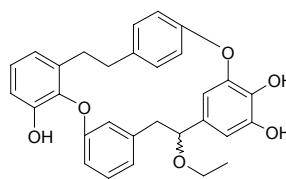
[98093-89-1] C₂₈H₂₂O₆ (454.48). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13551 Marchantin B**

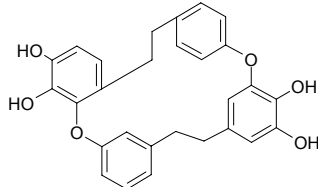
[88418-47-7] C₂₈H₂₄O₄ (424.50). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13556 Marchantin J**

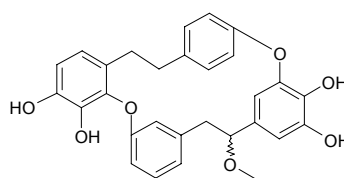
[107110-23-6] C₃₀H₂₈O₆ (484.55). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13552 Marchantin C**

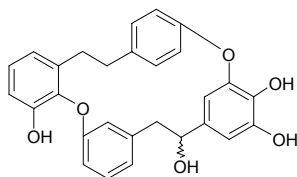
[88418-48-8] C₂₈H₂₄O₆ (456.50). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13557 Marchantin K**

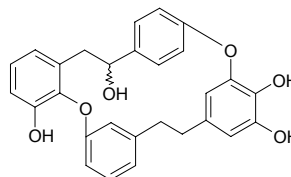
[107110-24-7] C₂₉H₂₆O₇ (486.53). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13553 Marchantin D**

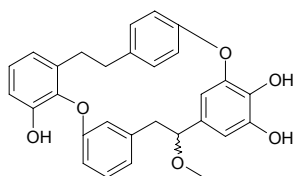
[98093-92-6] C₂₈H₂₄O₆ (456.50). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13558 Marchantin L**

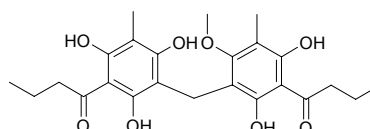
[107110-25-8] C₂₈H₂₄O₆ (456.50). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

**13554 Marchantin E**

[98093-91-5] C₂₉H₂₆O₆ (470.53). [Source](#): DI SUO LUO *Marchantia polymorpha*. [Ref](#): 1244.

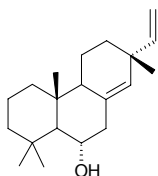
**13559 Margaspidin**

Margaspidin BB [1867-82-9] C₂₄H₃₀O₈ (446.50). Yellowish acicular crystals (ethanol), mp 189~191°C. [Pharm](#): Anthelmintic; anti-inflammatory (rat, tampon granuloma model, 50mg/kg orl); LD₅₀ (mus iv) = 11.8mg/kg. [Source](#): BIAN BAO LIN MAO JUE *Dryopteris marginalis*, BIAN YUAN LIN MAO JUE *Dryopteris marginata*, RI BEN LIN MAO JUE *Dryopteris sacrosancta*, TAI PING YANG LIN MAO JUE *Dryopteris pacifica*. [Ref](#): 661.

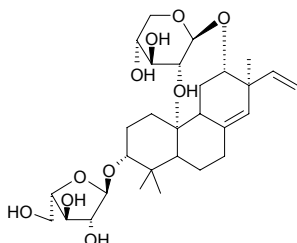


13560 Marginatol

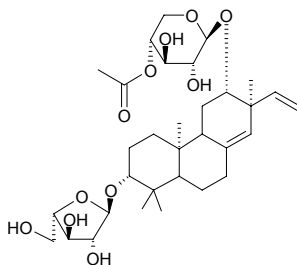
8(14),15-Isopimaradi-ene-6 α -ol C₂₀H₃₂O (288.48). Colorless massa crystals mp 77~78°C. Source: KU SHAN NAI *Kaempferia marginata*. Ref: 861.

**13561 Marginoside A**

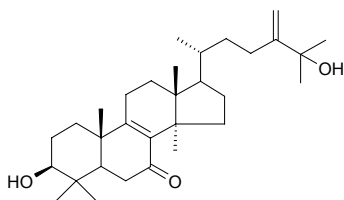
C₃₀H₄₈O₁₀ (568.71). Source: BIAN YUAN LIN GAI JUE *Microlepidia marginata*. Ref: 1245.

**13562 Marginoside B**

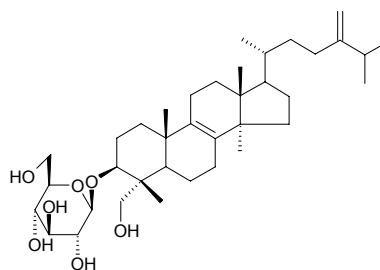
C₃₂H₅₀O₁₁ (610.75). Source: BIAN YUAN LIN GAI JUE *Microlepidia marginata*. Ref: 1245.

**13563 Marianine**

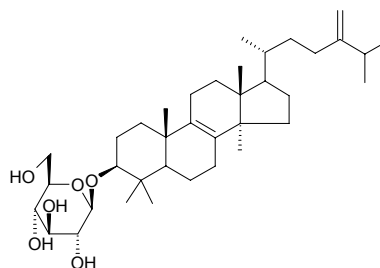
C₃₁H₅₀O₃ (470.74). Colorless crystals mp 160~161°C, $[\alpha]_D^{20} = 73^\circ$ ($c = 1.0$, CHCl₃). Pharm: Chymotrypsin inhibitor (*in vitro*, IC₅₀ = (9.4±0.02)μmol/L, control Chymostatin, IC₅₀ = (7.01±0.1)μmol/L). Source: SHUI FEI JI *Silybum marianum* (whole herb: yield = 0.0025%). Ref: 53.

**13564 Marianoside A**

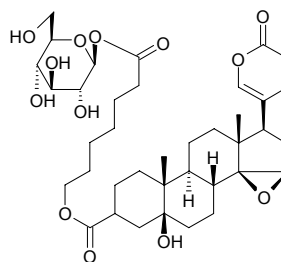
C₃₇H₆₂O₇ (618.90). White amorphous powder, mp 271~273°C, $[\alpha]_D^{25} = -28^\circ$ ($c = 1.0$, MeOH). Pharm: Chymotrypsin inhibitor (*in vitro*, IC₅₀ = (22.6±0.1)μmol/L, control Chymostatin, IC₅₀ = (7.01±0.1)μmol/L). Source: SHUI FEI JI *Silybum marianum* (whole herb: yield = 0.0029%). Ref: 53.

**13565 Marianoside B**

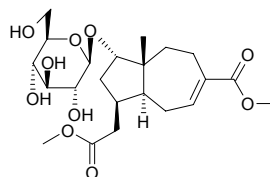
C₃₇H₆₂O₆ (602.90). Amorphous solid, mp 240~242°C, $[\alpha]_D^{25} = -45.5^\circ$ ($c = 0.1$, MeOH). Pharm: Chymotrypsin inhibitor (*in vitro*, IC₅₀ = (28.2±0.8)μmol/L, control Chymostatin, IC₅₀ = (7.01±0.1)μmol/L). Source: SHUI FEI JI *Silybum marianum* (whole herb: yield = 0.0037%). Ref: 53.

**13566 Marinobufagin 3-suberoyl-L-glutamine ester**

[75093-30-1] C₃₈H₅₄O₁₃ (718.85). mp 166~170°C. Source: CHAN SU *Bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

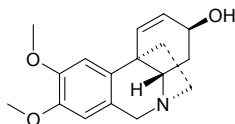
**13567 Marioside**

[146713-93-1] C₂₂H₃₄O₁₀ (458.51). Powder, $[\alpha]_D^{27} = +25.6^\circ$ ($c = 1.1$, CH₃OH). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 1246.

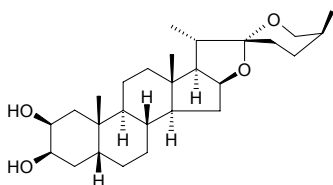


13568 Maritidine

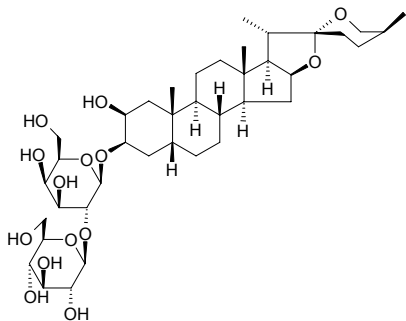
$C_{17}H_{21}NO_3$ (287.36). Source: *Cyrtanthus falcatus*. Ref: 4952.

**13569 Markogenin**

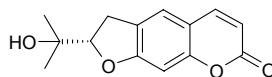
Texogenin; Neosamogenin [562-35-6] $C_{27}H_{44}O_4$ (432.65). Crystals (MeOH), mp 255~257°C, mp 171~172°C, $[\alpha]_D^{25} = -70.3^\circ$ (CHCl₃). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2, 1521.

**13570 Markogenin3-O-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside**

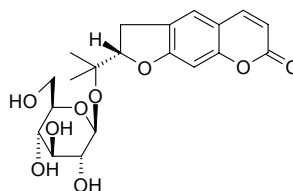
$C_{39}H_{64}O_{14}$ (756.94). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2.

**13571 Marmesin**

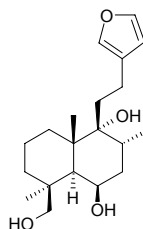
$C_{14}H_{14}O_4$ (246.27). Lamellar crystals (acetone, ethanol, benzene or ethyl acetate), mp 189.5°C, $[\alpha]_D = +26.8^\circ$ (chloroform); yellow amorphous powder, $[\alpha]_D = -15.8^\circ$ ($c = 0.1$, MeOH)^[3797]. Pharm: Antispasmodic (*in vitro*, rat, intestinal spasm caused by BaCl₂); antihypertensive (cat); antileishmanial (*Leishmania major* promastigote, 10 μmol/L, survival = (97.7±1.7)%, 1 μmol/L, survival = (96.5±1.1)%, control Amphotericin B, 10 μmol/L, survival = (0.2±0.04)%, 1 μmol/L, survival = (71.9±4.4)%)^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2 μg)^[3797]; AChE inhibitor (*in vitro*, IC₅₀ = 67 μmol/L)^[3058]; aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]. Source: A NUO TI HUA JIAO *Zanthoxylum arnotianum*, BAI YUN HUA *Heraclium rapula*, BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.00023% dw)^[4718], GOU SHU *Broussonetia papyrifera*^[3090], HOU GUO DANG GUI *Angelica pachycarpa*, JU MAO LEI A WEI *Ferulago capillaries* (root), MU⁽⁴⁾ JU *Aegle marmelos*, SHI FANG FENG *Peucedanum terebinthaceum*, BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], QIANG HUO *Notopterygium incisum*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058], YUN NAN QIANG HUO *Pleurospermum rivulorum*, YUN QIAN HU *Peucedanum rubricaula*, *Thamnosma rhodesica* (root)^[3797]. Ref: 2, 177, 551, 661, 1521, 3058, 3090, 3797, 3938, 4718.

**13572 Marmesinin**

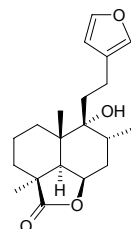
[495-30-7] $C_{20}H_{24}O_9$ (408.41). Amorphous powder, mp 259~260°C, $[\alpha]_D^{24} = -44^\circ$; mp 129°C. Pharm: Antioxidant (DPPH scavenger, EC₅₀ > 25 μg/mL, 25 μg/mL InRt = 24%, control Ascorbic acid, EC₅₀ = 1.6 μg/mL = 9.1 μmol/L)^[4154]. Source: BEI SHA SHEN *Glehnia littoralis* (underground part), CHOU CAO *Ruta graveolens*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 6, 344, 3525, 4154.

**13573 Marrubenol**

$C_{20}H_{32}O_4$ (336.48). Pharm: Vascular relaxant (inhibits 100 μmol/L KCl-induced contraction of rat aorta, IC₅₀ = (7.7±1.9) μmol/L, P<0.05). Source: OU XIA ZHI CAO *Marrubium vulgare*. Ref: 5355.

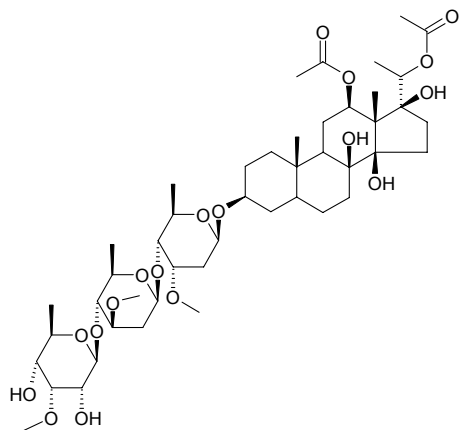
**13574 Marrubiin**

[465-92-9] $C_{20}H_{28}O_4$ (332.44). Crystals (EtOH), mp 160°C, $[\alpha]_D = +33.3^\circ$ ($c = 1$, CHCl₃). Pharm: Antitussive (dispels phlegm); vascular relaxant (inhibits 100 μmol/L KCl-induced contraction of rat aorta, IC₅₀ = (24±2) μmol/L, $p < 0.05$)^[5355]. Source: OU XIA ZHI CAO *Marrubium vulgare*. Ref: 658, 5355.

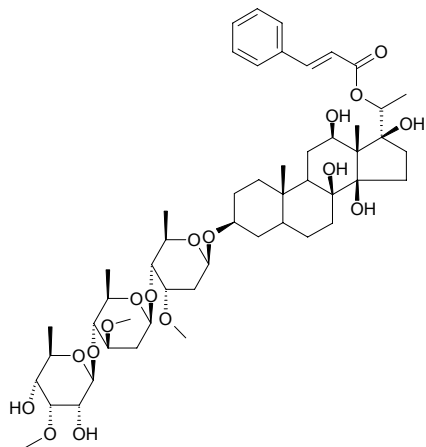


13575 Marsdekoiside C

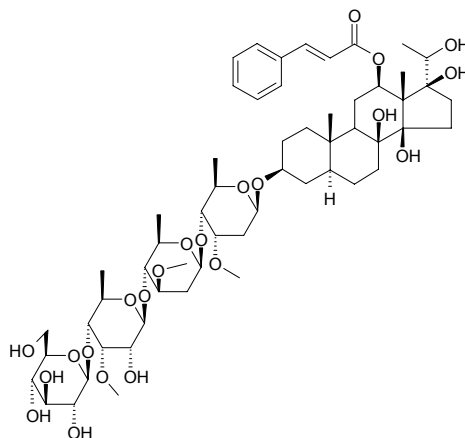
[139502-16-2] C₄₆H₇₆O₁₈ (917.11). White amorphous powder, mp 156~158°C, $[\alpha]_D^{19} = +25^\circ$ ($c = 0.20$, methanol). **Pharm:** Anti-fertility agent (female SD rat, without estrogen's action). **Source:** DA YE NIU NAI CAI *Marsdenia koi*. **Ref:** 200.

**13576 Marsdekoiside E**

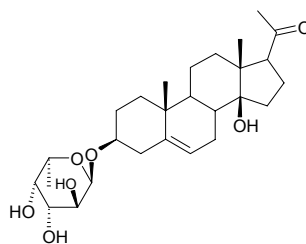
C₅₁H₇₈O₁₇ (963.18). White amorphous powder, mp 154~160°C. **Source:** DA YE NIU NAI CAI *Marsdenia koi*. **Ref:** 449.

**13577 Marsdeoreophiside B**

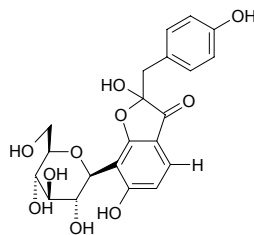
12-*O*-Cinnamylidihydrosarcostin-3-*O*-β-*D*-glucopyranosyl-(1→4)-*O*-3-*O*-methyl-6-deoxy-β-*D*-allopypyranosyl-(1→4)-*O*-β-*D*-oleandropyranosyl-(1→4)-β-*D*-cymaropyranoside C₅₇H₈₈O₂₂ (1125.32). White amorphous powder, mp 183~184°C, $[\alpha]_D^{19} = +49.2^\circ$ ($c = 0.065$, methanol). **Source:** HUI ZHU NIU NAI CAI *Marsdenia oreophila*. **Ref:** 298.

**13578 Marsin**

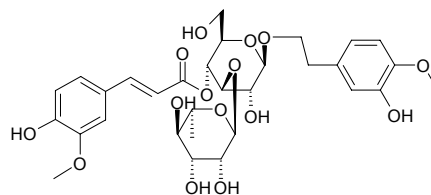
Ketocalogenin-3-*O*-α-*L*-fucopyranoside C₂₇H₄₇O₇ (478.63). White amorphous powder, mp 142°C, $[\alpha]_D = +6.70^\circ$ ($c = 0.03$, CHCl₃). **Source:** ROU LEI NIU NAI CAI *Marsdenia roylei* (aerial parts). **Ref:** 3490.

**13579 Marsuposide**

2-Hydroxy-2-*p*-hydroxybenzyl-3(2*H*)-6-hydroxybenzofuranone-7-*C*-β-*D*-glucopyranoside C₂₁H₂₂O₁₀ (434.40). Light yellow crystals, mp 156~158°C, $[\alpha]_D^{26} = +8.4^\circ$ ($c = 0.225$, MeOH). **Source:** NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). **Ref:** 3789.

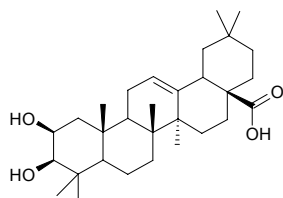
**13580 Martynoside**

[67884-12-2] C₃₁H₄₀O₁₅ (652.66). **Source:** CHANG YE CHE QIAN *Plantago lanceolata*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.0010%fw)^[4664], MAO PAO TONG *Paulownia tomentosa*, SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.0016%dw)^[4665], ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*, *Sideritis ozurkii* (aerial parts). **Ref:** 2, 660, 3827, 4664, 4665, 5020, 5449.

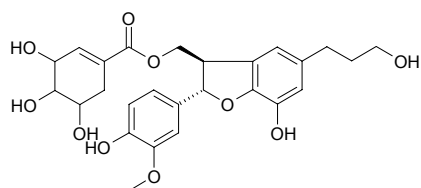


13581 (2 β ,3 β)-Maslinic acid

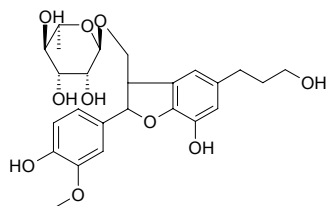
$C_{30}H_{48}O_4$ (472.71). **Pharm:** Antioxidant (anti-lipid peroxidation, effects on plasma oxidation in basal state and after incubation with Fe^{2+}/H_2O_2 : blank, lipid peroxidation(basal) = $(2.88 \pm 0.71) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(22.23 \pm 2.41) \mu\text{mol/L}$; control(1mL/kg CCl_4 to generate CCl_3^*), lipid peroxidation(basal) = $(9.83 \pm 1.37) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(34.09 \pm 8.36) \mu\text{mol/L}$; MA(100mg/kg)+ CCl_4 , lipid peroxidation(basal) = $(8.05 \pm 0.27) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(27.51 \pm 2.10) \mu\text{mol/L}$; MA(50mg/kg)+ CCl_4 , lipid peroxidation(basal) = $(8.15 \pm 0.61) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(31.86 \pm 1.81) \mu\text{mol/L}$; MA(100mg/kg), lipid peroxidation(basal) = $(2.47 \pm 0.30) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(23.71 \pm 2.58) \mu\text{mol/L}$; MA(50mg/kg), lipid peroxidation(basal) = $(2.51 \pm 0.16) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(22.91 \pm 1.89) \mu\text{mol/L}$; Silymarin(35mg/kg)+ CCl_4 , lipid peroxidation(basal) = $(6.46 \pm 0.95) \mu\text{mol/L}$, lipid peroxidation(Fe^{2+}/H_2O_2) = $(27.06 \pm 2.37) \mu\text{mol/L}$); antioxidant (anti-lipid peroxidation, effects on Fe^{+3} /ascorbate-induced lipid peroxidation in rat hepatocyte membrane: MA(10mg/mL), InRt = 51%; Silymarin(0.7mg/mL), InRt = 53%). **Source:** YOU GAN LAN *Ole^a europaea*. **Ref:** 5389.

**13582 Massonianoid A**

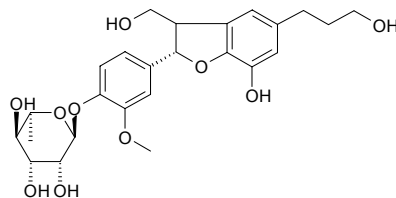
(7*S*,8*R*)-3',4,9-Trihydroxy-4-methoxy-9-*O*-shikimoyl-7,8-dihydrobenzofuran-1'-propylneolignan $C_{26}H_{30}O_{10}$ (502.52). Yellow-white cream, mp 124~144°C, $[\alpha]_D^{25} = -60.19^\circ$ ($c = 0.05$, MeOH). **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 2479.

**13583 Massonianoside A**

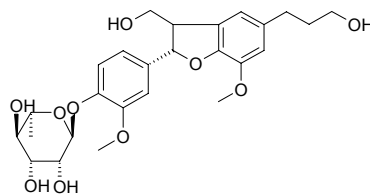
(7*S*,8*R*)-3,4,9'-Trihydroxyl-3-methoxyl-7,8-dihydrobenzofuran-1'-propanolne oligan-9-*O*- α -*L*-rhamnopyranoside $C_{25}H_{32}O_{10}$ (492.53). White-liked amorphous powder, mp 130~131°C, $[\alpha]_D = -14.8^\circ$ ($c = 3.29$, CH_3OH). **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 2236.

**13584 Massonianoside B**

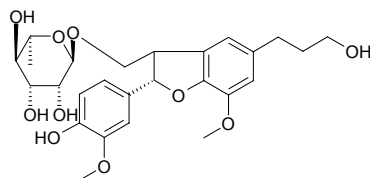
(7*S*,8*R*)-3,9,9'-Trihydroxyl-3-methoxyl-7,8-dihydrobenzofuran-1'-propanolne oligan-4-*O*- α -*L*-rhamnopyranoside $C_{25}H_{32}O_{10}$ (492.53). White-like amorphous powder, mp 127~128°C, $[\alpha]_D = -26.4^\circ$. **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 2131.

**13585 Massonianoside C**

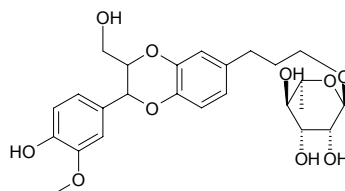
(7*S*,8*R*)-9,9'-Dihydroxyl-3,3'-dimethoxyl-7,8-dihydrobenzofuran-1'-propanolne oligan-4-*O*- α -*L*-rhamnopyranoside $C_{26}H_{34}O_{10}$ (506.55). White-liked amorphous powder, mp 97~99°C, $[\alpha]_D = -24.5^\circ$ ($c = 4.80$, CH_3OH). **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 2236.

**13586 Massonianoside D**

(7*S*,8*R*)-4,9'-Dihydroxy-3,3'-dimethoxyl-7,8-dihydrobenzofuran-1'-propanolne oligan-9-*O*- α -*L*-rhamnopyranoside $C_{26}H_{34}O_{10}$ (506.55). White-like amorphous powder, soluble in water, methanol and acetone, $[\alpha]_D^{25} = -10.3^\circ$ ($c = 3.09$, MeOH). **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 2462.

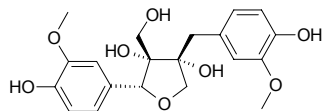
**13587 Massonianoside E**

3-Methoxyl-9'- α -*L*-rhamnopyranosyl-4':7,5':8-diepoxyneolignan-4,9-diol $C_{25}H_{32}O_{10}$ (492.53). White amorphous powder, mp 146~148°C, $[\alpha]_D^{25} = -41.95^\circ$ ($c = 0.18$, MeOH). **Source:** MA WEI SONG YE *Pinus massoniana*. **Ref:** 4833.

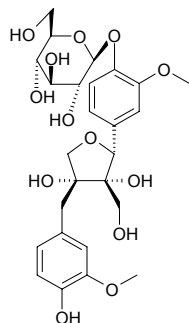


13588 Massoniresinol

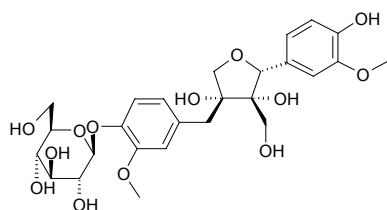
Vladinol A [96087-10-4] C₂₀H₂₄O₈ (392.41). Amorphous, $[\alpha]_D^{25} = -31.4^\circ$ ($c = 0.79$, MeOH). **Source:** CHUAN MU XIANG *Vladimiria souliei* [Syn. *Jurinea souliei*], MA WEI SONG YE *Pinus massoniana*. **Ref:** 1248, 1521.

**13589 (-)-Massoniresinol 4'-O-β-D-glucopyranoside**

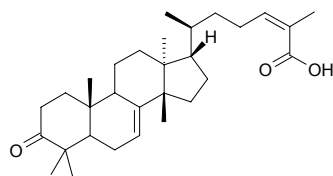
C₂₆H₃₄O₁₃ (554.55). Amorphous powder, $[\alpha]_D^{26} = -63.8^\circ$ ($c = 0.19$, MeOH). **Source:** LAN SHAI PIAO *Sambucus sieboldiana* (leaf). **Ref:** 4192.

**13590 (-)-Massoniresinol 4''-O-β-D-glucopyranoside**

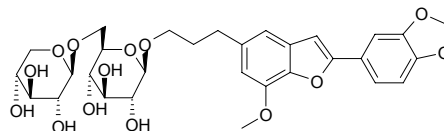
C₂₆H₃₄O₁₃ (554.55). Amorphous powder, $[\alpha]_D^{26} = -70.0^\circ$ ($c = 0.20$, MeOH). **Source:** LAN SHAI PIAO *Sambucus sieboldiana* (leaf), XIE CAO *Valeriana officinalis* (root; yield = 0.012%dw). **Ref:** 4192, 4656.

**13591 Masticadienonic acid**

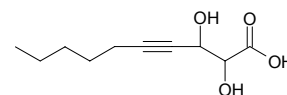
[514-49-8] C₃₀H₄₆O₃ (454.70). **Pharm:** Cytotoxic (leukemia cells L₁₂₁₀, IC₅₀ = 20 μg/mL)^[3786], Anti-inflammatory (*in vivo*, prevents ear oedema formation caused by PMA and synthesis of LOX products, especially LTC₄ and COX metabolites derived from arachidonic acid)^[4415]. **Source:** RU DU XIANG *Pistacia terebinthus*, *Juliania adstringens* (bark). **Ref:** 3786, 4415.

**13592 Masutakeside I**

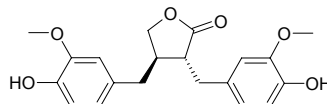
C₃₀H₃₆O₁₄ (620.61). Amorphous powder, $[\alpha]_D^{25} = -19.9^\circ$ ($c = 2.6$, MeOH); white amorphous powder, $[\alpha]_D^{22} = -41.3^\circ$ ($c = 0.1$, MeOH). **Pharm:** Anticomplement activity (IC₅₀ = 166 μmol/L, control Rosmarinic acid IC₅₀ = 182 μmol/L)^[4096]. **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica*, ZHU HONG LIU HUANG SE XUN KONG JUN *Laetiporus sulphureus* var. *miniatus*. **Ref:** 3515, 4096.

**13593 Masutakic acid A**

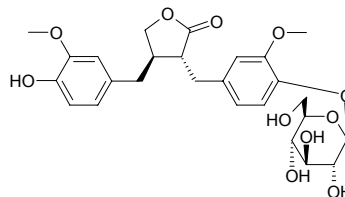
C₁₀H₁₆O₄ (200.24). Amorphous powder, $[\alpha]_D^{25} = -13.2^\circ$ ($c = 0.7$, MeOH). **Source:** ZHU HONG LIU HUANG SE XUN KONG JUN *Laetiporus sulphureus* var. *miniatus*. **Ref:** 3515.

**13594 Matairesinol**

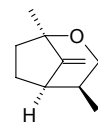
[580-72-3] C₂₀H₂₂O₆ (358.39). Colorless amorphous powder. **Pharm:** cAMP phosphodiesterase inhibitor; synergist of pesticides. **Source:** SUI HUA LUO HAN SONG *Podocarpus spicatus*, YI YE TIE SHAN *Tsuga heterophylla* (sapwood), *Abies* sp., *Picea* sp., *Heliopsis* sp. **Ref:** 658, 3965.

**13595 Matairesinoside**

[23202-85-9] C₂₆H₃₂O₁₁ (520.54). Crystals (EtOAc), mp 93°C, $[\alpha]_D^{12} = -46^\circ$ (EtOH); White powder, mp mp 93~96°C (dec), $[\alpha]_D^{25} = -46^\circ$ ($c = 0.68$, alcohol). **Source:** JIN ZHONG HUA *Forsythia viridissima*, LIAN QIAO *Forsythia suspensa*, RI BEN AN XI XIANG JING PI *Styrax japonica*. **Ref:** 2, 1521, 2546.

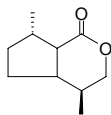
**13596 Matatabiether**

1,4-Dimethyl-8-methylene-2-oxabicyclo[3.2.1]octane [21700-60-7] C₁₀H₁₆O (152.24). Oil, bp 67°C/16mmHg, $[\alpha]_D^{23} = -147.3^\circ$ ($c = 1.03$, CHCl₃). **Source:** MU TIAN LIAO *Actinidia polygama*. **Ref:** 1249, 1521.

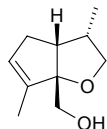


13597 Matatabilactone

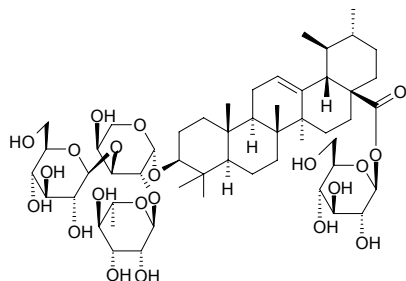
$C_{10}H_{16}O_2$ (168.24). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 1250.

**13598 Matatabiol**

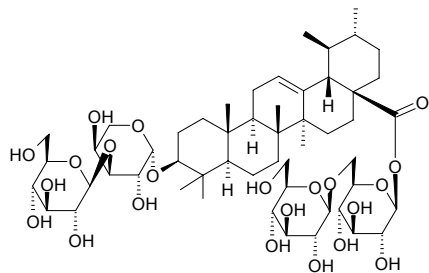
$C_{10}H_{16}O_2$ (168.24). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 1251.

**13599 Matesaponin 2**

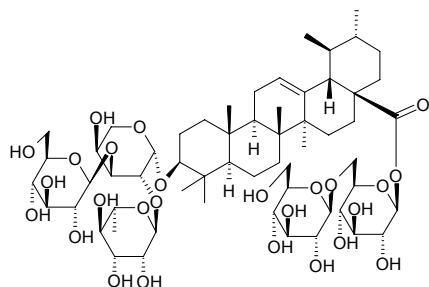
$C_{53}H_{86}O_{21}$ (1059.26). Source: BA LA GUI CHA *Ilex paraguariensis*. Ref: 2160.

**13600 Matesaponin 3**

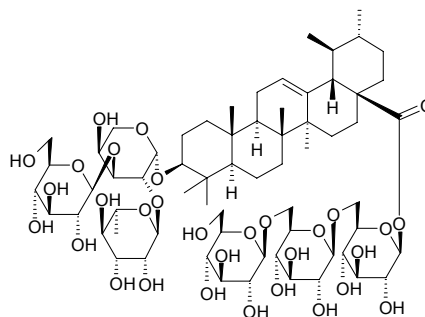
$C_{53}H_{86}O_{22}$ (1075.26). Source: BA LA GUI CHA *Ilex paraguariensis*. Ref: 2160.

**13601 Matesaponin 4**

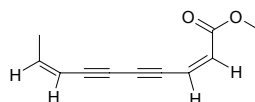
$C_{59}H_{96}O_{26}$ (1221.41). Source: BA LA GUI CHA *Ilex paraguariensis*. Ref: 2160.

**13602 Matesaponin 5**

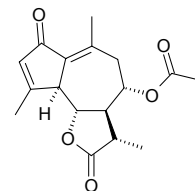
$C_{65}H_{106}O_{31}$ (1383.55). Source: BA LA GUI CHA *Ilex paraguariensis*. Ref: 2160.

**13603 Matricaria ester**

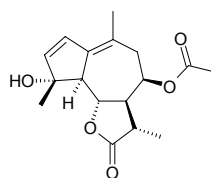
Methyl(2Z,8Z)-decadien-4,6-dienoate [928-36-9] $C_{11}H_{10}O_2$ (174.20). mp 37°C. Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*], YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 6, 1281.

**13604 Matricarin**

Artesin A [5989-43-5] $C_{17}H_{20}O_5$ (304.35). mp 193–195°C. Source: MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*]. Ref: 6.

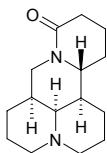
**13605 Matricin**

Prochamazulene [29041-35-8] $C_{17}H_{22}O_5$ (306.36). mp 158–160°C. Pharm: Precursor to biosynthesis of chamazulene. Source: MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], KA SI HAO *Artemisia caruthii*, *Achillea* sp. Ref: 6, 658.

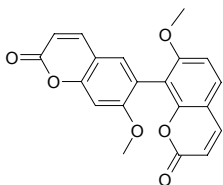


13606 Matrine

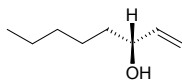
cis-Matrine; lupanidine; Sophocarpidine [519-02-8] C₁₅H₂₄N₂O (248.37). mp (α) 76°C, (β) 87°C, (δ) 84°C, bp (γ) 223°C/6mmHg, [α]_D = +38° (β, ethanol), soluble in water, benzene, chloroform, ether, CS₂, slightly soluble in petroleum spirit.^[5507] **Pharm:** Analgesic (mus, chemical and heat stimulation models); antibacterial (15 strains of dysentery); antineoplastic (mus EAC *in vitro* and *in vivo*, mus Lewis lung cancer, S₁₈₀); used in treatment of bacillary dysentery (cure rate = (64–95)%); LD₅₀ (mus ip) = 150mg/kg, (rat ip) = 125mg/kg. **Source:** BAI CI HUA *Sophora viciifolia*, HUANG YE HUAI *Sophora chrysophylla*, KU DOU ZI *Sophora alopecuroides* (seed: content = 0.149%^[5508]), KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = trace–0.64%, mean content = 0.20%^[5508]), SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*] (root and rhizome: mean content of 12 origins = 0.276%^[5508]), SI CHI HUAI *Sophora tetraptera*. **Ref:** 4, 546, 564, 593, 658, 5501, 5507, 5508.

**13607 Matsukaze lactone**

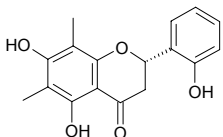
[3153-73-9] C₂₀H₁₄O₆ (350.33). Platelets (MeOH), mp 266.5–267.5°C. **Pharm:** Antibacterial (*Bacillus subtilis* ATCC1633 and *Staphylococcus aureus* 209P, EC = 1 mg/mL). **Source:** RI BEN CHOU JIE CAO *Boenninghausenia japonica*, YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 6, 1521, 1581.

**13608 Matsutake alcohol**

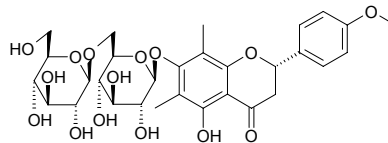
Matsutakeol; 1-Octen-3-ol [22658-80-6] C₈H₁₆O (128.22). **Source:** KUN BU *Laminaria japonica*, SHE TAI *Conocephalum conicum*, SHUANG BAO MO GU *Agaricus bisporus*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*], XIANG XUN *Lentinus edodes*. **Ref:** 660, 1252, 1490, 1491, 1492.

**13609 Matteucin**

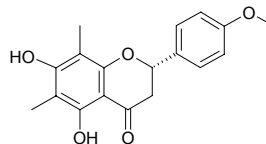
[77744-53-7] C₁₇H₁₆O₅ (300.31). mp 198–200°C. **Source:** DONG FANG JIA GUO JUE *Matteuccia orientalis*. **Ref:** 1253.

**13610 Matteucinin**

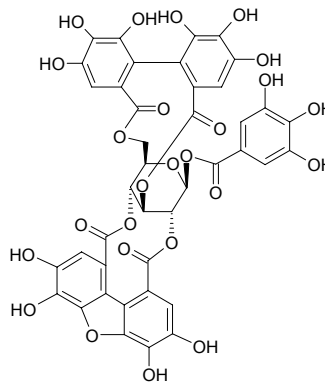
C₃₀H₃₈O₁₅ (638.63). Colorless or yellowish acicular crystals (methanol–water), mp 140–141°C, [α]_D¹³ = –29.4° (c = 0.32, acetone). **Pharm:** Antitussive (dispels phlegm); treatment of chronic bronchitis. **Source:** DU JUAN HUA YE *Rhododendron simsii*, DU JUAN HUA *Rhododendron simsii*. **Ref:** 6, 658.

**13611 Matteucinol**

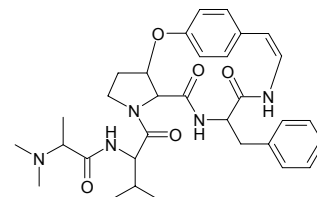
[489-38-3] C₁₈H₁₈O₅ (314.34). mp 173–174°C. **Pharm:** Antitussive (dispels phlegm); treatment of chronic bronchitis. **Source:** DONG FANG JIA GUO JUE *Matteuccia orientalis*, DU JUAN HUA *Rhododendron simsii*. **Ref:** 658, 1253.

**13612 Mauotusin**

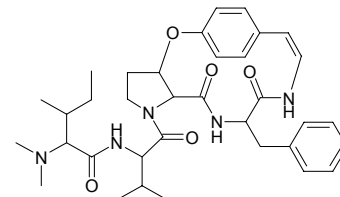
C₄₁H₂₆O₂₅ (918.65). **Source:** ZE QI *Euphorbia helioscopia*. **Ref:** 1254.

**13613 Mauritine A**

[38478-72-7] C₃₂H₄₁N₅O₅ (575.71). mp 104°C. **Source:** MIAN ZAO *Ziziphus mauritiana*. **Ref:** 6.

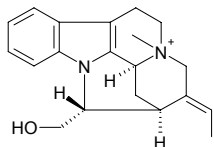
**13614 Mauritine B**

[38478-73-8] C₃₃H₄₇N₅O₅ (617.81). **Source:** MIAN ZAO *Ziziphus mauritiana*. **Ref:** 6.

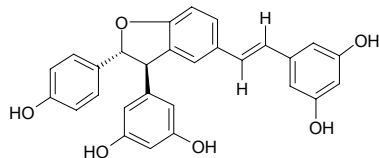


13615 Mavacurine

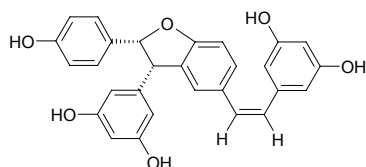
[6801-19-0] $C_{20}H_{25}N_2O^+$ (309.44). Source: DU MA QIAN *Strychnos toxifera*, FEN CHA MA QIAN ZI *Strychnos divaricans*, MA QIAN ZI *Strychnos nux-vomica*, MI SHI MA QIAN ZI *Strychnos mitschlichii*, YA MA XUN MA QIAN ZI *Strychnos amazonica*, *Strychnos guianensis* (stem cortex). Ref: 6, 1521.

**13616 Maximol A**

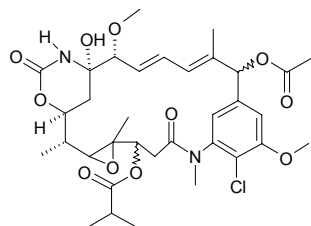
$C_{28}H_{22}O_6$ (454.48). Brown amorphous powder, $[\alpha]_D^{25} = -16.3^\circ$ ($c = 0.75$, MeOH). Source: MA SHI DA HUANG *Rheum maximowiczii* (root). Ref: 5136.

**13617 Maximol B**

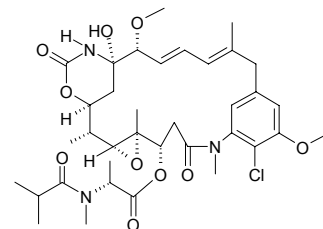
$C_{28}H_{22}O_6$ (454.48). Brown amorphous powder, $[\alpha]_D^{25} = +99.4^\circ$ ($c = 0.34$, MeOH). Source: MA SHI DA HUANG *Rheum maximowiczii* (root). Ref: 5136.

**13618 Maytanbutacine**

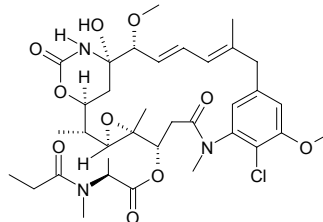
[62414-95-3] $C_{34}H_{45}ClN_2O_{11}$ (693.20). Crystals (dichloromethane-ether), mp 253–255°C, $[\alpha]_D^{33} = -90^\circ$ ($c = 0.055$, ethanol). Pharm: Antineoplastic (mus P_{388} , optimum dose 12.5 µg/kg, biotic prolonged rate = 79%); cytotoxic (KB, $ED_{50} = 0.0015$ ng/mL). Source: CHI YE MEI DENG MU *Maytenus serrata*. Ref: 661.

**13619 Maytanbutine**

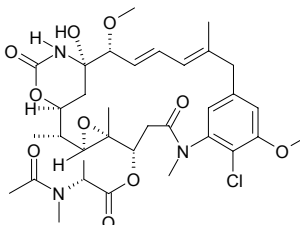
[38997-10-3] $C_{36}H_{50}ClN_3O_{10}$ (720.27). mp 170–171°C, $[\alpha]_D^{30} = -122$ ($c = 0.0492$, chloroform). Pharm: Antineoplastic (mus P_{388} , optimum dose 0.8 mg/kg, biotic prolonged rate = 90%); cytotoxic (KB, $ED_{50} = 0.0036$ ng/mL). Source: CHI YE MEI DENG MU *Maytenus serrata*, LUAN YE MEI DENG MU *Maytenus ovatus*, BU CHANG NAN MEI DENG MU *Maytenus buchananii*. Ref: 661.

**13620 Maytanprine**

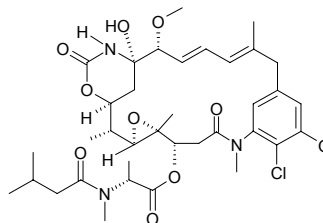
[38997-09-0] $C_{35}H_{48}ClN_3O_{10}$ (706.24). mp 178°C. Pharm: Antineoplastic (mus, P_{388} , optimum dose 1.6 µg/kg *in vivo*, biotic prolonged rate = 54%); cytotoxic (KB *in vitro*, $ED_{50} = 0.00014$ ng/mL). Source: MI HUA MEI DENG MU *Maytenus confertiflorus*, BU CHANG NAN MEI DENG MU *Maytenus buchananii*, YUN NAN MEI DENG MU *Maytenus hookeri*. Ref: 5, 658.

**13621 Maytansine**

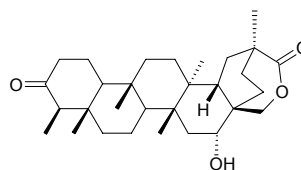
[35846-53-8] $C_{34}H_{46}ClN_3O_{10}$ (692.21). mp 182°C. Pharm: Antineoplastic (P_{388} $ED_{50} = 6.0$ µmol/L, KB $ED_{50} = 10^{-5}$ µg/mL, mus EAC, 0.01 mg/kg, biotic prolonged rate = 132%, S_{180} , Lewis lung cancer, B16 melanoma, and L_{1210} *in vitro* and *in vivo*); LD (dog) = 0.09–0.12 mg/(kg·d) for 3–4 days, leads to death, (monkey) = 0.18–0.24 mg/(kg·d) for 5–6 day, leads to death. Source: CHI YE MEI DENG MU *Maytenus serrata*, GUANG XI MEI DENG MU *Maytenus guangsiensis*, LUAN YE MEI DENG MU *Maytenus ovatus* (the compound was isolated from the plant by S.M.Kupchan et al. in 1972)^[5505], MI HUA MEI DENG MU *Maytenus confertiflorus*, BU CHANG NAN MEI DENG MU *Maytenus buchananii*, YUN NAN MEI DENG MU *Maytenus hookeri*. Ref: 4, 658, 5505.

**13622 Maytanvaline**

[52978-27-5] $C_{37}H_{52}ClN_3O_{10}$ (734.29). mp 175.0–176.5°C, $[\alpha]_D^{26} = -135^\circ$ ($c = 0.950$, chloroform). Pharm: Antineoplastic (mus P_{388} , optimum dose 12.5 mg/kg, biotic prolonged rate = 87%); cytotoxic (KB, $ED_{50} = 0.00023$ ng/mL). Source: BU CHANG NAN MEI DENG MU *Maytenus buchananii*. Ref: 661.

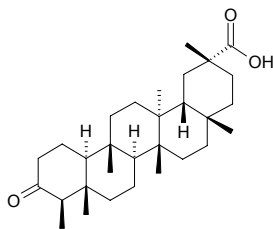
**13623 Maytenfolone A**

$C_{30}H_{46}O_4$ (470.70). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2511.

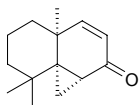


13624 Maytenoic acid

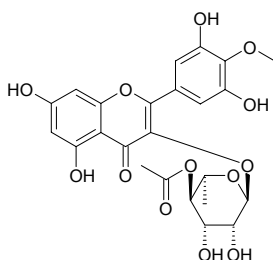
$C_{30}H_{48}O_3$ (456.72). **Pharm:** DPPH scavenger inactive (for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} > 40\mu\text{mol/L}$). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**13625 Mayurone**

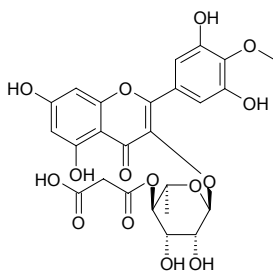
[4677-90-1] $C_{14}H_{20}O$ (204.31). mp $69.5\text{--}70.0^\circ\text{C}$. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. **Ref:** 6.

**13626 Mearnsetin 3-O-(4''-O-acetyl)- α -L-¹C_r-rhamnopyranoside**

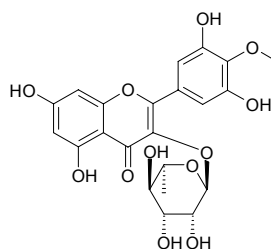
$C_{24}H_{24}O_{13}$ (520.45). Yellow amorphous powder. **Source:** WU MO *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*] (leaf). **Ref:** 5237.

**13627 Mearnsetin 3-O-(4''-O-malonyl)- α -L-rhamnopyranoside**

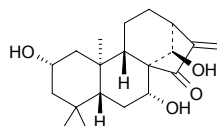
$C_{25}H_{24}O_{15}$ (564.46). **Source:** GAO SHAN CHA BIAO *Ribes alpinum* (leaf). **Ref:** 3541.

**13628 Mearnsitrin**

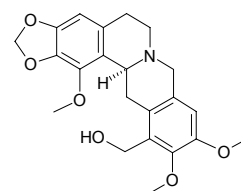
Mearnsetin-3-O- α -rhamnopyranoside; Myricetin-4'-O-methyl ether-3-O- α -L-rhamnopyranoside $C_{22}H_{22}O_{12}$ (478.41). Amorphous solid, $[\alpha]_D^{23.2} = -76.8^\circ$ ($c = 0.69$, MeOH). **Source:** WU MO *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*] (leaf), YANG PU TAO YE *Syzygium samarangense*, *Goniothalamus thwaitesii* (aerial parts). **Ref:** 4100, 5096, 5237.

**13629 Mebadonin**

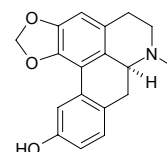
$C_{20}H_{30}O_4$ (334.46). mp $271\text{--}273^\circ\text{C}$ (dec), $[\alpha]_D = -158^\circ$ ($c = 1.0$, dioxane). **Source:** YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. **Ref:** 4067.

**13630 Mecambridine**

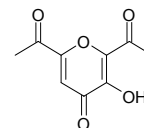
[31098-60-9] $C_{22}H_{25}NO_6$ (399.45). mp $179\text{--}180^\circ\text{C}$. **Pharm:** Analgesic (mus); CNS depressant (mus). **Source:** HONG HUA LV RONG HAO *Meconopsis punicea*, WEI ER SHI LV RONG HAO *Meconopsis cambrica*. **Ref:** 1255, 1521.

**13631 L-Mecambroline**

$C_{18}H_{17}NO_3$ (295.34). **Pharm:** Antihypertensive (order *Rodentia*). **Source:** CHE SHI NAN *Phoebe chemensii*, WEI ER SHI LV RONG HAO *Meconopsis cambrica*, YI XIAN YING SU *Papaver fugax*. **Ref:** 658.

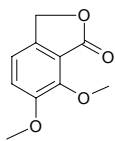
**13632 Meconic acid**

3-Hydroxy-4-oxo-4H-pyran-2,6-dicarboxylic acid [497-59-6] $C_9H_8O_5$ (196.16). mp 120°C (dec). **Source:** LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*]. **Ref:** 6.

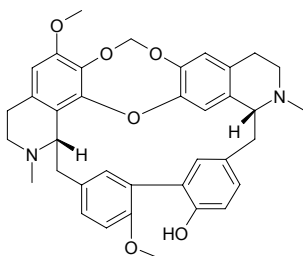


13633 Meconine

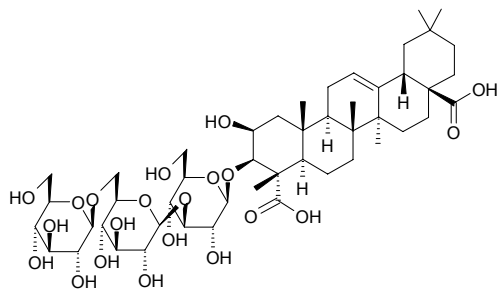
[569-31-3] C₁₀H₁₀O₄ (194.19). mp 102.5°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

**13634 (-)-Medelline**

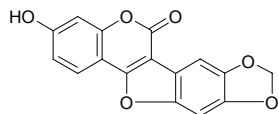
C₃₇H₃₈N₂O₆ (606.73). Pharm: Mitochondrial respiratory chain complex I inhibitor (IC₅₀ = (2.01±0.29)μmol/L, Rolliniastatin-1, IC₅₀ = (0.6±0.04)nmol/L, Rotenone, IC₅₀ = (5.10±0.90)nmol/L). Source: GE LUN BI YA MU BAN SHU *Xylopia columbiana* (fruit). Ref: 4954.

**13635 Medicagenic acid 3-O-triglucoside**

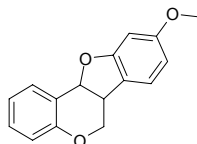
C₄₈H₇₆O₂₁ (989.13). Powder, mp 257~258°C, [α]_D²³ = +24° (c = 0.02, EtOH). Pharm: Hemolytic; inhibits production of *Trichoderma viride*. Source: MU XU *Medicago sativa*. Ref: 658.

**13636 Medicagol**

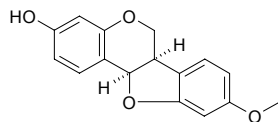
[1983-72-8] C₁₆H₈O₆ (296.24). mp 324~325°C. Source: HUI HUI DOU *Cicer arietinum*. Ref: 6.

**13637 Medicarpan**

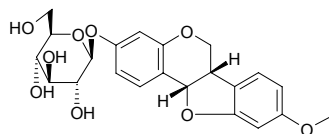
3-Hydroxy-9-methoxypterocarpan C₁₆H₁₄O₃ (254.29). Pharm: Antibacterial (*Escherichia coli*, inactive, control Chloramphenicol, MIA = 0.001μg; *Bacillus subtilis*, MIA = 100.0μg, Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 10.0μg, Chloramphenicol, MIA = 0.001μg); antifungal (*Candida mycoderma*, MIA = 1.00μg, Miconazole MIA = 0.0001μg); antioxidant (DPPH scavenger, TLC detection limit = 1.0μg, IC₅₀ = 1100μg/mL; control Quercetin, TLC detection limit < 0.05μg, IC₅₀ = 7μg/mL; Gallic acid, TLC detection limit < 0.05μg, IC₅₀ = 4μg/mL; Ascorbic acid, TLC detection limit < 0.10μg, IC₅₀ = 18μg/mL). Source: *Bolusanthus speciosus* (root wood). Ref: 3785.

**13638 (-)-Medicarpin**

L-3-Hydroxy-9-methoxypterocarpan [32383-76-9] C₁₆H₁₄O₄ (270.29). Colorless columnar crystals (benzene), mp 131~132°C, [α]_D²⁹ = -220° (c = 1.4, chloroform), mp 127.5~128.5°C, [α]_D²² = -226° (chloroform). Pharm: Antibacterial (*Mycobacterium tuberculosis* H37Rv *in vitro*, MIC = 10μg/mL, other testing strains, MIC ≥ 50μg/mL); antifungal (*Trichophyton mentagrophytes in vitro*, MIC = 30μg/mL); hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by D-galactosamine (GalN), 100μmol/L, InRt = (7.9±0.8)%, inactive, control Silybin, 100μmol/L, InRt = (77.0±5.5%)^[4095]). Source: HONG CHE ZHOU CAO *Trifolium pratense*, HUANG QI *Astragalus membranaceus*, MA DAO SI WO CI DOU *Swartzia madagascariensis*, MENG GU HUANG QI *Astragalus mongholicus*, SI TE WEN HUANG TAN *Dalbergia stevensonii*, WU CI KE YA SHU *Andira inermis*, YI BIAN HUANG TAN *Dalbergia variabilis*, GUANG BU DING GONG TENG *Erycibe expansa*, *Lathyrus* sp., *Medicago* sp., *Trigonella* sp. Ref: 2, 660, 661, 1521, 4095.

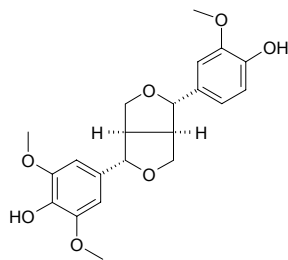
**13639 Medicarpin-3-O-glucoside**

C₂₂H₂₄O₉ (432.43). Source: HUANG GAN CAO *Glycyrrhiza kansuensis*. Ref: 1256.

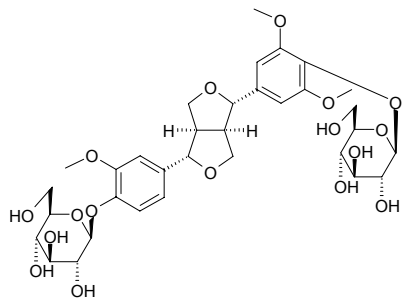


13640 (+)-Medioresinol

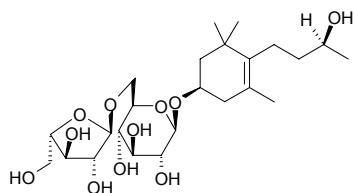
Medioresinol [40957-99-1] $C_{21}H_{24}O_7$ (388.42). Colorless granular crystals (CH₃OH), mp 169~171°C, $[\alpha]_D^{24} = +11.30$ ($c = 0.3$, CHCl₃). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 13.7 μmol/L; CYP2D6, IC₅₀ > 100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L)^[4797]; plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt = (30~60)%, 10 μmol/L, StRt > 61%, 100 μmol/L, StRt > 61%, 1 mmol/L, StRt > 61%; *Raphanus sativus*, 1 μmol/L, StRt = (10~30)%, 10 μmol/L, StRt = (30~60)%, 100 μmol/L, StRt = (30~60)%, 1 mmol/L, StRt = (10~30)%; *Allium cepa*, 1 μmol/L, InRt = (10~30)%, 10 μmol/L, StRt or InRt < 10%, 100 μmol/L, StRt or InRt < 10%, 1 mmol/L, InRt = (10~30)%)^[5217]. **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.000056% dw)^[4797], DU ZHONG *Eucommia ulmoides*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), LEI GONG TENG *Tripterygium wilfordii*, XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 683, 1209, 4369, 4797, 5217.

**13641 (+)-Medioresinol di-O-β-D-glucopyranoside**

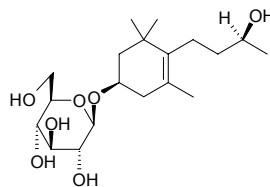
$C_{33}H_{44}O_{17}$ (712.71). **Source:** DU ZHONG *Eucommia ulmoides*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 2.

**13642 (3R,9S)-Megastigman-5-en-3,9-diol-3-O-[α-L-arabinofuranosyl-(1→6)]-β-D-glucopyranoside**

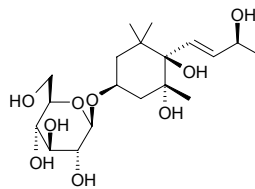
$C_{24}H_{42}O_{11}$ (506.60). White powder, $[\alpha]_D = -47.1^\circ$ ($c = 0.23$, MeOH). **Source:** OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). **Ref:** 4477.

**13643 (3R,9S)-Megastigman-5-en-3,9-diol-3-O-β-D-glucopyranoside**

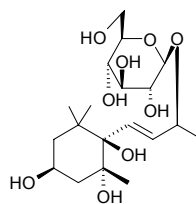
$C_{19}H_{34}O_7$ (374.48). White powder, $[\alpha]_D = -48.5^\circ$ ($c = 1.05$, MeOH). **Pharm:** Antibacterial (*Helicobacter pylori* NCTC11637, MIC = 50 μg/mL, NCTC11916, MIC = 50 μg/mL, OCO1, MIC = 50 μg/mL, Hinokitiol (Nat. or Syn.), MIC = 100 μg/mL, 100 μg/mL, 50 μg/mL, respectively). **Source:** OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). **Ref:** 4477.

**13644 (3S,5R,6R,7E,9S)-Megastigman-7-ene-3,5,6,9-tetrol-3-O-β-D-glucopyranoside**

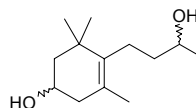
$C_{19}H_{34}O_9$ (406.48). Amorphous powder, $[\alpha]_D^{24} = -38.0^\circ$ ($c = 1.00$, MeOH). **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum*, JIAN PU ZHAI GU KE *Erythroxylum cambodianum* (aerial parts), *Alangium premnifolium*. **Ref:** 2046, 4461.

**13645 (3S,5R,6R,7E,9S)-Megastigman-7-ene-3,5,6,9-tetrol-9-O-β-D-glucopyranoside**

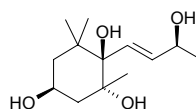
$C_{19}H_{34}O_9$ (406.48). Amorphous powder, $[\alpha]_D^{24} = -56.3^\circ$ ($c = 0.65$, MeOH). **Source:** CHUI ZHU SUAN PAN ZI *Glochidion zeylanicum*, SHENG GU YOU *Staphylea bumalda* (leaf), *Alangium premnifolium*. **Ref:** 2046, 4478.

**13646 Megastigm-5-ene-3,9-diol**

$C_{13}H_{24}O_2$ (212.34). Oil, $[\alpha]_D^{25} = -33.8^\circ$ ($c = 0.5$, CHCl₃). **Source:** HONG GUI *Chamaecyparis formosensis*. **Ref:** 2315.

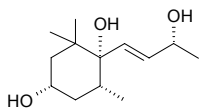
**13647 Megastigmenetetrol**

$C_{13}H_{24}O_4$ (244.33). Colorless needles, mp 183~185°C, $[\alpha]_D^{26} = -25.7^\circ$. **Source:** YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. **Ref:** 2522.

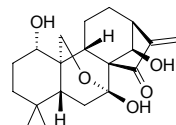


13648 7-Megastigmene-3,6,9-triol

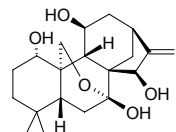
$C_{13}H_{24}O_3$ (228.33). Colorless oil. Source: XIAO YE HONG GUANG SHU *Knema globularia*. Ref: 2209.

**13649 Megathyrin A**

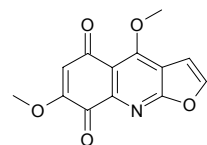
$C_{20}H_{28}O_5$ (348.44). $[\alpha]_D^{20} = -21.5^\circ$ ($c = 0.10$, MeOH); mp 180–182°C. $[\alpha]_D = -22.5^\circ$ ($c = 0.082$, MeOH). Source: ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts), DA ZHUI XIANG CHA CAI *Isodon megathyrus*. Ref: 4067, 5475.

**13650 Megathyrin B**

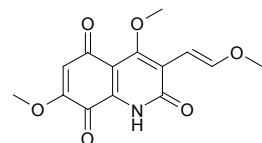
$C_{20}H_{30}O_5$ (350.46). mp 224–226°C, $[\alpha]_D = -36^\circ$ ($c = 0.05$, MeOH); $[\alpha]_D^{20} = -35.2^\circ$ ($c = 0.06$, MeOH). Source: DA ZHUI XIANG CHA CAI *Isodon megathyrus*, ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). Ref: 4067, 5475.

**13651 Megistoquinone I**

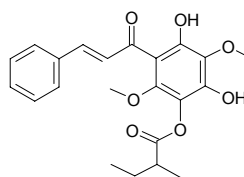
$C_{13}H_9NO_5$ (259.22). Pharm: Antibacterial (*Staphylococcus aureus* MIC = 2.35mg/mL, control Amoxysillin, MIC = 2.0μg/mL; *Staphylococcus epidermidis* MIC = 2.77mg/mL; *Pseudomonas aeruginosa* MIC = 3.24mg/mL; *Enterobacter cloacae* MIC = 3.12mg/mL; *Klebsiella pneumoniae* MIC = 5.25mg/mL; *Escherichia coli* MIC = 4.75mg/mL). Source: *Sarcomelicope megistophylla* (bark). Ref: 4172.

**13652 Megistoquinone II**

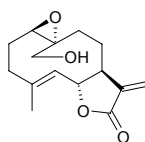
$C_{14}H_{13}NO_6$ (291.26). Pharm: Antibacterial (*Staphylococcus aureus* MIC = 0.75mg/mL, control Amoxysillin, MIC = 2.0μg/mL; *Staphylococcus epidermidis* MIC = 0.73mg/mL; *Pseudomonas aeruginosa* MIC = 0.97mg/mL; *Enterobacter cloacae* MIC = 0.89mg/mL; *Klebsiella pneumoniae* MIC = 1.23mg/mL; *Escherichia coli* MIC = 1.02mg/mL). Source: *Sarcomelicope megistophylla* (bark). Ref: 4172.

**13653 Melafolone**

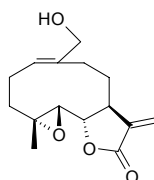
[129724-42-1] $C_{22}H_{24}O_7$ (400.43). Gum. Source: YU LIAO *Polygonum lapathifolium*. Ref: 1257.

**13654 Melampomagnolide A**

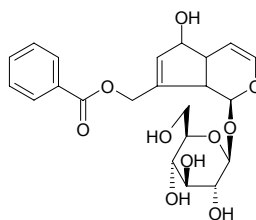
[93930-16-6] $C_{15}H_{20}O_4$ (264.32). Crystals (Et₂O), mp 177–178°C. $[\alpha]_D = -19^\circ$ ($c = 0.12$, CHCl₃). Source: HE HUA YU LAN *Magnolia grandiflora*. Ref: 1258, 1521.

**13655 Melampomagnolide B**

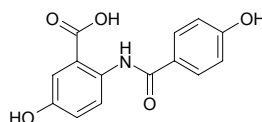
[93930-15-5] $C_{15}H_{20}O_4$ (264.32). Crystals (Et₂O), mp 174–175°C. $[\alpha]_D = -40^\circ$ ($c = 0.18$, CHCl₃). Source: HE HUA YU LAN *Magnolia grandiflora*. Ref: 1258, 1521.

**13656 Melampyroside**

[55785-60-9] $C_{22}H_{26}O_{10}$ (450.45). Source: DA CHE QIAN *Plantago major*. Ref: 1259.

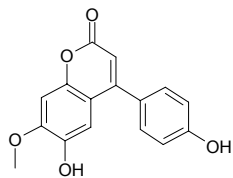
**13657 Melandrin**

N-p-Hydroxybenzoyl-5-hydroxy anthranilic acid $C_{14}H_{11}NO_5$ (273.25). Source: YING YE NV LOU CAI *Silene firma*. Ref: 1260.

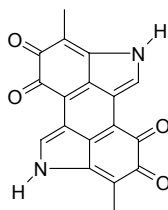


13658 Melanettin

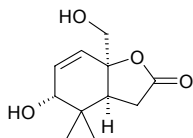
[58115-08-5] C₁₆H₁₂O₅ (284.27). Source: FEI ZHOU HUANG TAN *Dalbergia melanoxylon*, JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716, 1521.

**13659 Melanin**

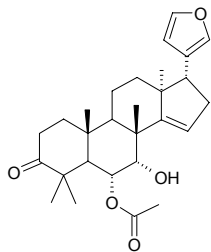
C₁₈H₁₀N₂O₄ (318.29). Source: SI GUA ZI *Luffa cylindrica*, WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], XUE YU *Homo sapiens*, YANG PI *Capra hircus*; *Ovis aries*. Ref: 6.

**13660 Melazolide A**

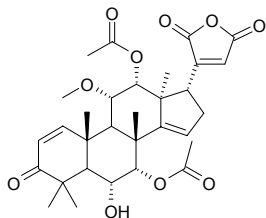
(-)-(3a*S*,5*R*,7a*R*)-4,4-Dimethyl-7a-hydroxymethyl-5-hydroxy-2,3,3a,4,5,7a-hexahydrobenzo[*b*]furan-2-one C₁₁H₁₆O₄ (212.25). [α]_D²⁰ = -94° (c = 0.033, EtOH). Source: KU LIAN PI *Melia azedarach*. Ref: 1962.

**13661 Meldenin**

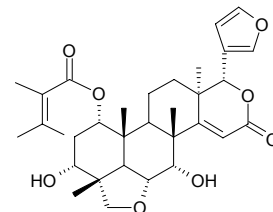
[19865-83-9] C₂₈H₃₈O₅ (454.61). Crystals, mp 240~244°C. Source: KU LIAN PI *Melia azedarach*, *Melia azadirachta*. Ref: 1261.

**13662 Meliacinanhydride**

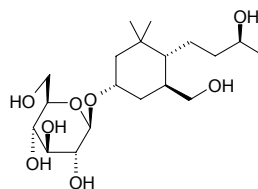
[24,25,26,27-Tetranorapotirucalla-(apoeupha)-6α-hydroxy,11α-methoxy-7α,12α-diacetoxyl,1,14,20(22)-trien-3-one] C₃₁H₃₈O₁₀ (570.64). Crystalline, mp 114~115°C, [α]_D²⁷ = -30.0° (c = 0.02, CHCl₃). Source: YIN DU LIAN *Azadiractica indica* (leaf). Ref: 3844.

**13663 Meliacinol**

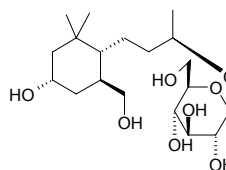
24,25,26,27-Tetranorapotirucalla-(apoeupha)-1α-trimethylacryloxy-21,23-6α,28-diepoxy-16-oxo-17-oxa-14,20,22-trien-3α,7α-diol C₃₂H₄₂O₈ (554.69). Fine needles, mp 178~179°C, [α]_D²⁷ = +7.78° (c = 0.18, CHCl₃). Pharm: Insecticidal inactive (*Aedes aegypti*, LC₅₀ > 100mg/L). Source: YIN DU LIAN *Azadiractica indica* (fresh leaf). Ref: 3914.

**13664 Meliaionoside A**

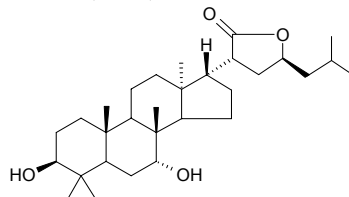
[128533-20-2] C₁₉H₃₆O₈ (392.49). Powder (C₆H₆/MeOH), [α]_D²⁰ = -35.1° (c = 0.43, pyridine). Source: KU LIAN PI *Melia azedarach*, CHUAN LIAN PI *Melia toosendan*. Ref: 1262.

**13665 Meliaionoside B**

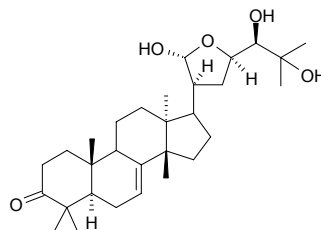
[128533-21-1] C₁₉H₃₆O₈ (392.49). Powder (C₆H₆/MeOH), [α]_D²⁰ = -9.0° (c = 0.15, pyridine). Source: KU LIAN PI *Melia azedarach*, CHUAN LIAN PI *Melia toosendan*. Ref: 1263.

**13666 Melialactone**

C₃₀H₅₀O₄ (474.73). Source: KU LIAN PI *Melia azedarach*. Ref: 1264.

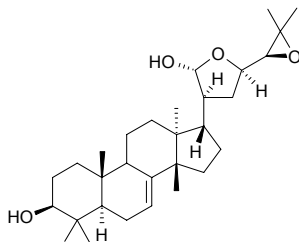
**13667 Melianodiol**

[32764-64-0] C₃₀H₄₈O₅ (488.71). mp 219~220°C. Source: KU LIAN PI *Melia azedarach*. Ref: 648.

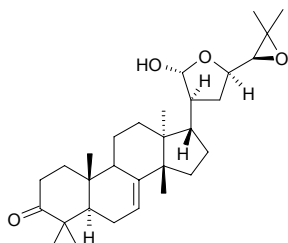


13668 Melianol

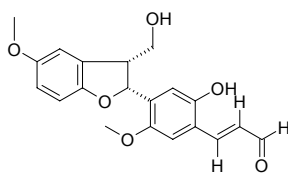
[16838-01-0] $C_{30}H_{48}O_4$ (472.71). Crystals (Me₂CO–pentane), mp 194–195°C, $[\alpha]_D = -38^\circ$ ($c = 1$, CHCl₃). Source: KU LIAN PI *Melia azedarach*. Ref: 6, 648.

**13669 Melianone**

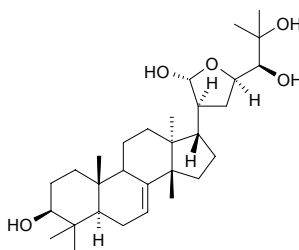
[6553-27-1] $C_{30}H_{46}O_4$ (470.70). mp 223–224°C (acetone–pentane), 232–233°C (chloroform–pentane). Source: CHANG YE KUAN MU *Eurycoma longifolia*, KU LIAN PI *Melia azedarach*, RI BEN KU LIAN *Melia azedarach* var. *japonica*. Ref: 6, 648, 660.

**13670 Melianoninol**

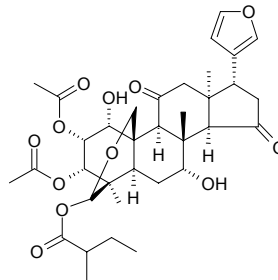
[136880-81-4] $C_{20}H_{20}O_6$ (356.38). Yellowish prismatic crystals, mp 150–152°C, $[\alpha]_D^{18} = -4.28^\circ$ ($c = 0.46$, methanol). Pharm: Insect antifeedant (green vegetable worm). Source: KU LIAN PI *Melia azedarach*. Ref: 648.

**13671 Melianotriol**

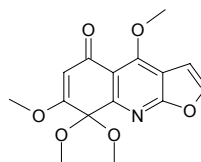
$C_{30}H_{50}O_5$ (490.73). mp 176–178°C. Source: KU LIAN PI *Melia azedarach*. Ref: 6.

**13672 Meliatoxin B₁**

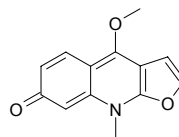
$C_{35}H_{46}O_{12}$ (658.75). Pharm: Cytotoxic (inhibits KB cell's growth, $IC_{50} > 10\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.066\mu\text{g/mL}$). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2314.

**13673 Melicarpine**

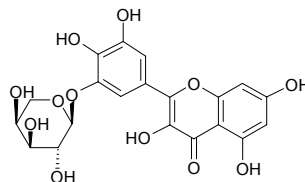
$C_{15}H_{15}NO_6$ (305.29). Colorless needles (MeOH), mp 211–213°C. Pharm: Cytotoxic (P₃₈₈ cell line, $ED_{50} = 8.1\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.06\mu\text{g/mL}$; HT29, $ED_{50} = 11.2\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.07\mu\text{g/mL}$; A549, $ED_{50} = 2.5\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.08\mu\text{g/mL}$). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

**13674 Melicarpinone**

$C_{13}H_{11}NO_3$ (229.24). Pharm: Cytotoxic (P₃₈₈ cell line, $ED_{50} = 20.6\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.06\mu\text{g/mL}$; HT29, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.07\mu\text{g/mL}$; A549, $ED_{50} = 30.5\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.08\mu\text{g/mL}$). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

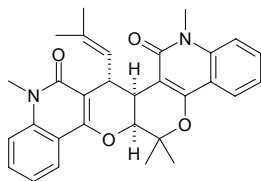
**13675 Melicitrin**

[38888-63-0] $C_{20}H_{18}O_{12}$ (450.36). Source: LIAN HUA *Melia azedarach*. Ref: 6.

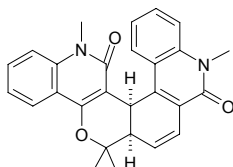


13676 Melicobisquinolinone A

$C_{30}H_{30}N_2O_4$ (482.58). Amorphous. Source: *Melicope ptelefolia*. Ref: 1886.

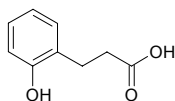
**13677 Melicobisquinolinone B**

$C_{27}H_{24}N_2O_3$ (424.50). Amorphous. Source: *Melicope ptelefolia*. Ref: 1886.

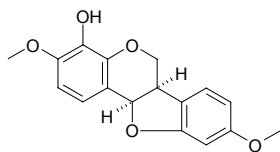
**13678 Melilotic acid**

Hydrocoumaric acid; 3-(2-Hydroxyphenyl)propanoic acid [495-78-3]

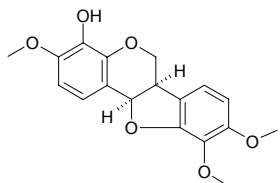
$C_9H_{10}O_3$ (166.18). Colorless lamellar crystals (benzene), mp 87–89°C; mp 82–83°C. Pharm: Antiulcerative; inhibits gastric ulcer (rat oral, ip or iv, 40 µg/kg, Increases blood flow in stomach). Source: ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], PI HAN CAO *Melilotus suaveolens*, SI ZI TAN *Pterocarpus santalinus*. Ref: 2, 6, 658, 940, 1155.

**13679 Melilotocarpin A**

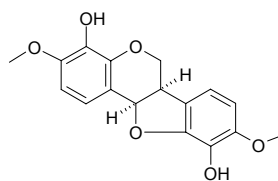
4-Homopterocarpinol; 4-Hydroxyhomopterocarpin; Melilotocarpin A [61135-95-3] $C_{17}H_{16}O_5$ (300.31). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**13680 Melilotocarpin C**

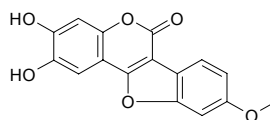
[83013-82-5] $C_{18}H_{18}O_6$ (330.34). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1266.

**13681 Melilotocarpin D**

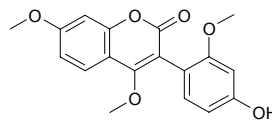
[83013-81-4] $C_{17}H_{16}O_6$ (316.31). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1266.

**13682 Melimessanol A**

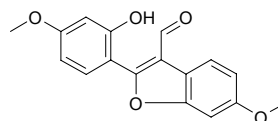
$C_{10}H_{16}O_6$ (298.25). White amorphous solid. Source: XI XI LI CAO MU XI *Melilotus messanensis*. Ref: 1852.

**13683 Melimessanol B**

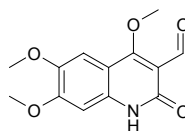
$C_{18}H_{16}O_6$ (328.32). White amorphous solid. Source: XI XI LI CAO MU XI *Melilotus messanensis*. Ref: 1852.

**13684 Melimessanol C**

$C_{17}H_{14}O_5$ (298.32). White amorphous solid. Source: XI XI LI CAO MU XI *Melilotus messanensis*. Ref: 1852.

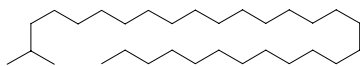
**13685 Melisemine**

$C_{13}H_{13}NO_5$ (263.25). Pharm: Cytotoxic (P₃₈₈ cell line, ED₅₀ = 13.2 µg/mL, control Mithramycin, ED₅₀ = 0.06 µg/mL; HT29, ED₅₀ = 46.0 µg/mL, Mithramycin, ED₅₀ = 0.07 µg/mL; A549, ED₅₀ = 4.0 µg/mL, Mithramycin, ED₅₀ = 0.08 µg/mL). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

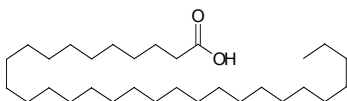


13686 Melissane

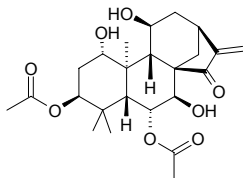
C₃₀H₆₂ (422.83). mp 73~74°C, bp 222°C/0.3mmHg. Source: TU DING GUI *Evolvulus alsinoides*. Ref: 6.

**13687 Melissic acid**

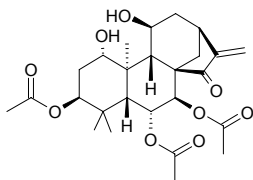
n-Triacontanoic acid [506-50-3] C₃₀H₆₀O₂ (452.81). Colorless crystals powder (ethanol), mp 82~83°C; mp 93°C. Source: HUA DONG LAN CI TOU *Echinops grijssii*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XIAO HUA SUAN TENG ZI *Embelia parviflora*, YAO YONG PU GONG YING *Taraxacum officinale*, YUN QIAN HU *Peucedanum rubricaula*. Ref: 2, 177, 437, 660.

**13688 Melissoidesin A**

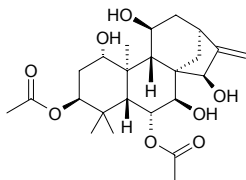
C₂₄H₃₄O₈ (450.53). mp 245~246°C, [α]_D²² = -24.4° (*c* = 0.44, CHCl₃). Source: BAO YE XIANG CHA CAI *Isodon melissoides*. Ref: 4067.

**13689 Melissoidesin B**

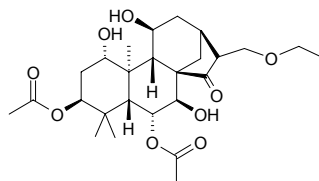
C₂₆H₃₆O₉ (492.57). mp 231~232°C, [α]_D²² = -11.9° (*c* = 0.13, CHCl₃). Source: BAO YE XIANG CHA CAI *Isodon melissoides*. Ref: 4067.

**13690 Melissoidesin C**

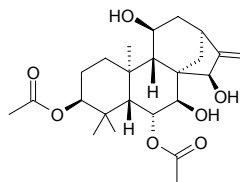
C₂₄H₃₆O₈ (452.55). mp 235~236°C, [α]_D²² = +16.36° (*c* = 0.38, MeOH). Source: BAO YE XIANG CHA CAI *Isodon melissoides*. Ref: 4067.

**13691 Melissoidesin D**

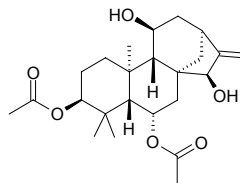
C₂₆H₄₀O₉ (496.60). mp 215~216°C, [α]_D²² = -4.20° (*c* = 0.50, MeOH). Source: BAO YE XIANG CHA CAI *Isodon melissoides*. Ref: 4067.

**13692 Melissoidesin E**

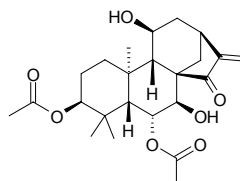
C₂₄H₃₆O₇ (436.55). Amorphous powder, [α]_D²² = +19.3° (*c* = 0.46, CHCl₃). Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00066%dw). Ref: 4067, 4760.

**13693 Melissoidesin F**

C₂₄H₃₆O₆ (420.55). Amorphous powder, [α]_D²² = +17.7° (*c* = 0.47, CHCl₃). Pharm: Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066μg/mL)^[4760]. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0022%dw). Ref: 4067, 4760.

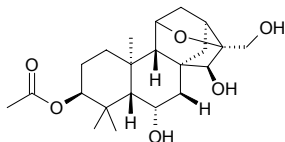
**13694 Melissoidesin G**

C₂₄H₃₄O₇ (434.53). Amorphous powder, [α]_D²² = -35.3° (*c* = 0.52, CHCl₃); [α]_D^{25.6} = -32.6° (*c* = 0.369, MeOH). Pharm: Cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC₅₀ = 6.62μg/mL, control VCR, IC₅₀ = 0.066μg/mL)^[4760]; cytotoxic (hmn tumor K562 cells, IC₅₀ = 0.3μg/mL, control *cis*-Platin IC₅₀ = 1.1μg/mL)^[4955]. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00066%dw), DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4067, 4299, 4955, 4760.

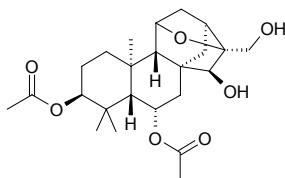


13695 Melissoidesin I

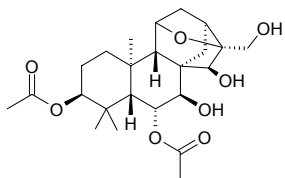
3 β -Acetoxy-6 α ,15 β ,17-trihydroxy-11 β ,16 β -epoxy-*ent*-kaurane C₂₂H₃₄O₆ (394.51). Colorless crystals, mp 124~126°C, [α]_D²⁰ = +27.27° (*c* = 0.11, MeOH). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts). **Ref:** 4355.

**13696 Melissoidesin J**

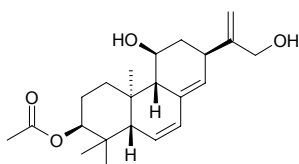
3 β ,6 α -Diacetoxy-15 β ,17-dihydroxy-11 β ,16 β -epoxy-*ent*-kaurane C₂₄H₃₆O₇ (436.55). Colorless crystals, mp 130~132°C, [α]_D²⁰ = +38.39° (*c* = 0.25, MeOH). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts). **Ref:** 4355.

**13697 Melissoidesin K**

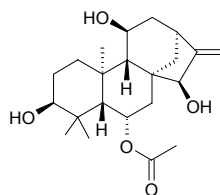
3 β ,6 α -Diacetoxy-7 β ,15 β ,17-trihydroxy-11 β ,16 β -epoxy-*ent*-kaurane C₂₄H₃₆O₈ (452.55). Colorless crystals, mp 185~187°C, [α]_D²⁰ = +45.45° (*c* = 0.09, MeOH). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts). **Ref:** 4355.

**13698 Melissoidesin L**

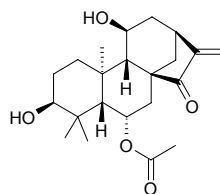
3 β -Acetoxy-11 β ,17-dihydroxy-*ent*-abieta-6(7),8(14),15(16)-triene C₂₂H₃₂O₄ (360.50). Colorless crystals, mp 90~92°C, [α]_D²⁰ = -14.71° (*c* = 0.11, MeOH). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts). **Ref:** 4355.

**13699 Melissoidesin M**

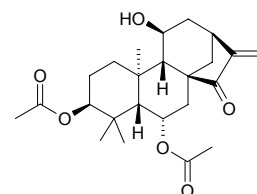
3 β ,11 β ,15 β -Trihydroxy-6 α -acetoxy-*ent*-kaur-16-ene C₂₂H₃₄O₅ (378.51). Colorless needles (acetone), mp²¹ 0~214°C, [α]_D²⁰ = +9.6° (*c* = 0.05, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00078%dw). **Ref:** 4760.

**13700 Melissoidesin N**

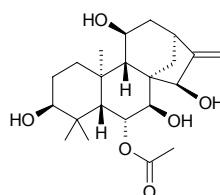
3 β ,11 β -Dihydroxy-6 α -acetoxy-*ent*-kaur-16-en-15-one C₂₂H₃₂O₅ (376.5). Colorless crystals (acetone), mp 248~250°C, [α]_D²⁰ = -68.18° (*c* = 0.07, MeOH). **Pharm:** Cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC₅₀ = 0.036 μ g/mL, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00056%dw). **Ref:** 4760.

**13701 Melissoidesin O**

11 β -Hydroxy-3 β ,6 α -diacetoxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₆ (418.53). Colorless crystals (acetone), mp 226~228°C, [α]_D²⁰ = -51.52° (*c* = 0.30, MeOH). **Pharm:** Cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC₅₀ = 7.83 μ g/mL, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0013%dw). **Ref:** 4760.

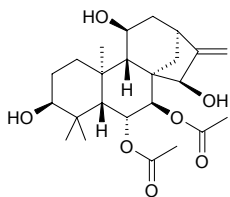
**13702 Melissoidesin P**

3 β ,7 β ,11 β ,15 β -Tetrahydroxy-6 α -acetoxy-*ent*-kaur-16-ene C₂₂H₃₄O₆ (394.51). Colorless crystals, mp 232~234°C, [α]_D²⁰ = -8.42° (*c* = 0.21, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0016%dw). **Ref:** 4760.

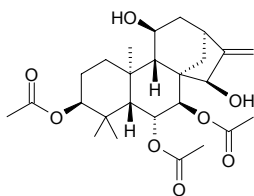


13703 MelissoidesinQ

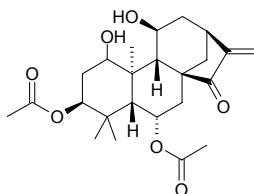
3 β ,11 β ,15 β -Trihydroxy-6 α ,7 β -diacetoxy-*ent*-kaur-16-ene C₂₄H₃₇O₇ (436.55). Colorless crystals (acetone), mp 115–118°C, [α]_D²⁰ = –52.17° (*c* = 0.12, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.012%dw). **Ref:** 4760.

**13704 Melissoidesin R**

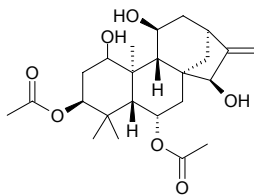
11 β ,15 β -Dihydroxy-3 β ,6 α ,7 β -triacetoxy-*ent*-kaur-16-ene C₂₆H₃₈O₈ (478.59). Colorless crystals (acetone), mp 234–235°C, [α]_D²⁰ = –20.62° (*c* = 0.09, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00056%dw). **Ref:** 4760.

**13705 MelissoidesinS**

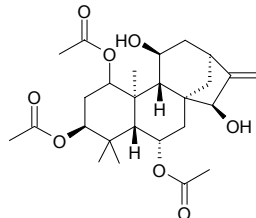
1 α ,11 β -Dihydroxy-3 β ,6 α -diacetoxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Colorless crystals (acetone), mp 238–240°C, [α]_D²⁰ = –53.4° (*c* = 0.21, MeOH). **Pharm:** Cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC₅₀ = 7.71 μ g/mL, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.031%dw). **Ref:** 4760.

**13706 MelissoidesinT**

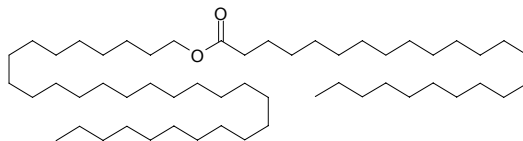
1 α ,11 β ,15 β -Trihydroxy-3 β ,6 α -diacetoxy-*ent*-kaur-16-ene C₂₄H₃₆O₇ (436.55). Colorless crystals (acetone), mp 246–248°C, [α]_D²⁰ = +19.9° (*c* = 0.23, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00038%dw). **Ref:** 4760.

**13707 Melissoidesin U**

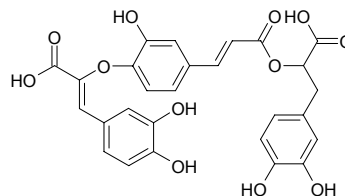
11 β ,15 β -Dihydroxy-1 α ,3 β ,6 α -triacetoxy-*ent*-kaur-16-ene C₂₆H₃₈O₈ (478.59). Colorless crystals, mp 96–98°C, [α]_D²⁰ = +20.1° (*c* = 0.50, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, BGC823 hmn tumor cells, control VCR, IC₅₀ = 0.066 μ g/mL). **Source:** BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0072%dw). **Ref:** 4760.

**13708 Melissyl lignocerate**

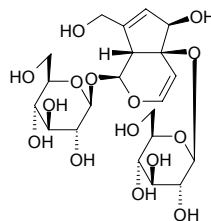
C₅₄H₁₀₈O₂ (789.46). **Source:** CHONG BAI LA *Ericerus pela*. **Ref:** 6.

**13709 Melitric acid A**

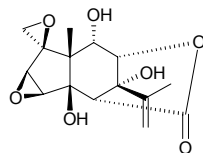
C₂₇H₂₂O₁₂ (538.47). Freeze-dried light-brown powder, [α]_D²⁰ = +41° (*c* = 0.2, MeOH). **Source:** YAO YONG DAN SHEN *Salvia officinalis*. **Ref:** 2388.

**13710 Melittoside**

[19467-03-9] C₂₁H₃₂O₁₅ (524.48). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], LONG TU ZHU *Clerodendrum thomsonae*. **Ref:** 2, 660.

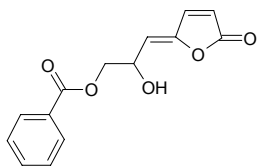
**13711 Mellitoxin**

C₁₅H₁₈O₇ (310.31). **Pharm:** Causes excitation to the peripheral nervous system; toxin. **Source:** CAI SHI MU MA SANG *Coriaria arborea*. **Ref:** 658.

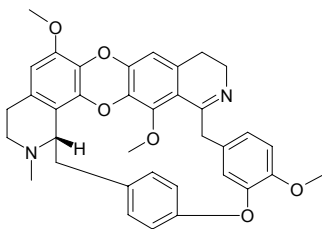


13712 Melodorinol

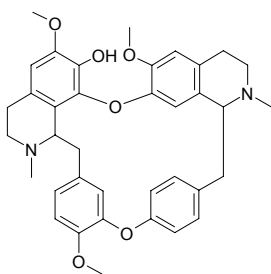
$C_{14}H_{12}O_5$ (260.25). Source: *Melodorum fruticosum* (flower). Ref: 5245.

**13713 Menisarine**

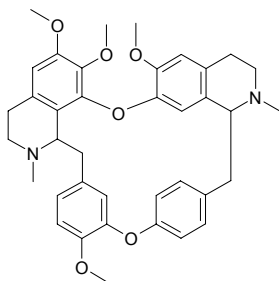
$C_{36}H_{34}N_2O_6$ (590.68). Source: MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 660.

**13714 Menisidine**

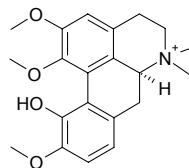
$C_{37}H_{40}N_2O_6$ (608.74). Source: FANG JI *Stephania tetrandra*. Ref: 2.

**13715 Menisine**

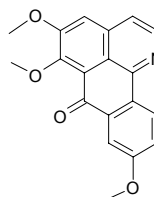
(+)-Isotetrandrine $C_{38}H_{42}N_2O_6$ (622.77). Pharm: Mitochondrial respiratory chain complex I inhibitor ($IC_{50} > 10 \mu\text{mol/L}$, Rolliniastatin-1, $IC_{50} = (0.6 \pm 0.04) \text{nmol/L}$, Rotenone, $IC_{50} = (5.10 \pm 0.90) \text{nmol/L}$)^[4954]. Source: FANG JI *Stephania tetrandra*, GE LUN BI YA MU BAN SHU *Xylopi colombiana* (fruit). Ref: 2, 4954.

**13716 Menisperine**

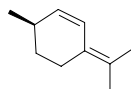
$C_{21}H_{26}NO_4^+$ (356.45). mp 233°C. Pharm: Ganglionic blocker (curariform action, particularly for submandibular ganglions); antihypertensive (dog, cat and rbt); muscle relaxant (rat and rbt). Source: BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content of 12 origins = 0.658%^[5508]), HU JIAO HUA JIAO *Zanthoxylum piperitum*, HUANG BAI *Phellodendron amurense*, NAN TIAN ZHU ZI *Nandina domestica*, TU CHUANG HUA *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*]. Ref: 2, 512, 658, 5508.

**13717 Menisporphine**

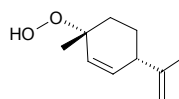
Menisporohine [83287-02-9] $C_{19}H_{15}NO_4$ (321.34). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 1267.

**13718 2,4(8)-p-Menthadiene**

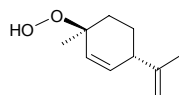
[586-63-0] $C_{10}H_{16}$ (136.24). Source: AI YE *Artemisia argyi*. Ref: 1268.

**13719 (-)-(1R,4S)-p-Mentha-2,8-dien-1-hydroperoxide**

$C_{10}H_{16}O_2$ (168.24). Colorless oil, $[\alpha]_D^{20} = -49.6^\circ$ ($c = 0.9$, CHCl_3). Pharm: Antitrypanosomal (*in vitro*, epimastigotes of *Trypanosoma cruzi*, MLC = $3.1 \mu\text{mol/L}$; HeLa cell infection assay, at $1 \mu\text{g/mL}$, InRt of infection of HeLa cells by the trypomastigotes = 88%). Source: TU JING JIE *Chenopodium ambrosioides* (fresh aerial part including immature seed: yield = 0.00085%fw). Ref: 4619.

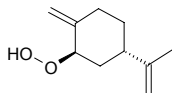
**13720 (-)-(1S,4S)-p-Mentha-2,8-dien-1-hydroperoxide**

$C_{10}H_{16}O_2$ (168.24). Colorless oil, $[\alpha]_D^{20} = -164.2^\circ$ ($c = 1.0$, CHCl_3). Pharm: Antitrypanosomal (*in vitro*, epimastigotes of *Trypanosoma cruzi*, MLC = $3.1 \mu\text{mol/L}$; HeLa cell infection assay, at $1 \mu\text{g/mL}$, InRt of infection of HeLa cells by the trypomastigotes = 100%). Source: TU JING JIE *Chenopodium ambrosioides* (fresh aerial part including immature seed: yield = 0.00067%fw). Ref: 4619.

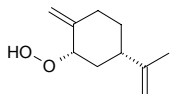


13721 (-)-(2*R*,4*S*)-*p*-Mentha-1(7),8-dien-2-hydroperoxide

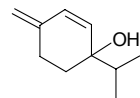
C₁₀H₁₆O₂ (168.24). Colorless oil, $[\alpha]_D^{20} = -78.1^\circ$ ($c = 2.5$, CHCl₃). **Pharm:** Antitrypanosomal (*in vitro*, epimastigotes of *Trypanosoma cruzi*, MLC = 1.6 μmol/L; HeLa cell infection assay, at 1 μg/mL, InRt of infection of HeLa cells by the trypomastigotes = 63%). **Source:** TU JING JIE *Chenopodium ambrosioides* (fresh aerial part including immature seed: yield = 0.0015%fw). **Ref:** 4619.

**13722 (-)-(2*S*,4*S*)-*p*-Mentha-1(7),8-dien-2-hydroperoxide**

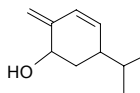
C₁₀H₁₆O₂ (168.24). Colorless oil, $[\alpha]_D^{20} = -18.7^\circ$ ($c = 4.7$, CHCl₃). **Pharm:** Antitrypanosomal (*in vitro*, epimastigotes of *Trypanosoma cruzi*, MLC = 1.2 μmol/L). **Source:** TU JING JIE *Chenopodium ambrosioides* (fresh aerial part including immature seed: yield = 0.00064%fw). **Ref:** 4619.

**13723 1(7),2-*p*-Menthadien-4-ol**

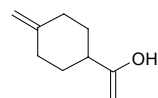
C₁₀H₁₆O (152.24). **Source:** HU JIAO *Piper nigrum*. **Ref:** 1521.

**13724 1(7),2-*p*-Menthadien-6-ol**

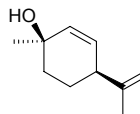
C₁₀H₁₆O (152.24). **Source:** HU JIAO *Piper nigrum*. **Ref:** 1269.

**13725 1(7),8(10)-*p*-Menthadien-9-ol**

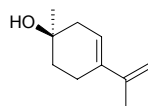
C₉H₁₄O (138.21). **Source:** SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 1270.

**13726 *cis-p*-2,8-Menthadien-1-ol**

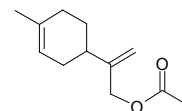
C₁₀H₁₆O (152.24). **Source:** HU JIAO *Piper nigrum*. **Ref:** 6.

**13727 3,8(9)-*p*-Menthadien-1-ol**

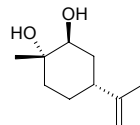
p-3,8(9)-Menthadien-1-ol C₁₀H₁₆O (152.24). **Source:** HU JIAO *Piper nigrum*. **Ref:** 1269.

**13728 1,8-Menthadien-10-ol acetate**

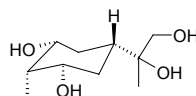
C₁₂H₁₈O₂ (194.28). **Source:** JU PI *Citrus reticulata*. **Ref:** 6.

**13729 *p*-Mentha-8-en-1,2-diol**

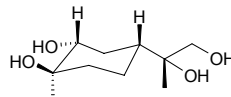
C₁₀H₁₈O₂ (170.25). Amorphous powder, $[\alpha]_D^{21} = +34^\circ$. **Pharm:** Antitrypanosomal inactive (epimastigotes of *Trypanosoma cruzi*, 400 μmol/L)^[2579]. **Source:** GE LU ZI *Carum carvi* (fruit), YI LANG QING LAN *Dracocephalum kotschy*. **Ref:** 2579, 4153.

**13730 4β*H*-*cis-p*-Menthane-2α,6α,8,9-tetrol**

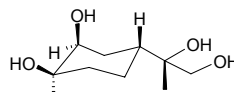
C₁₀H₂₀O₄ (204.27). Amorphous powder, $[\alpha]_D^{21} = +4^\circ$ ($c = 1.6$, MeOH). **Source:** GE LU ZI *Carum carvi* (fruit). **Ref:** 4153.

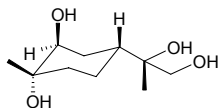
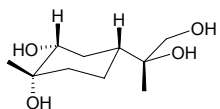
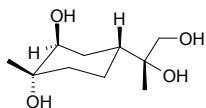
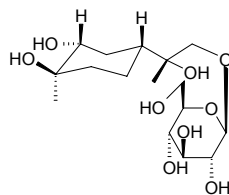
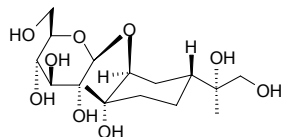
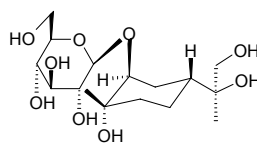
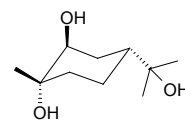
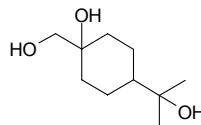
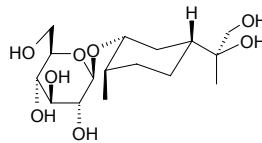
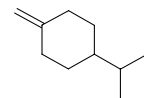
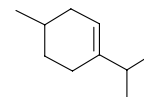
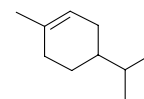
**13731 *rel*-(1*R*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol**

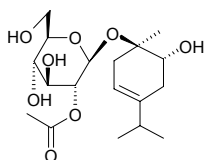
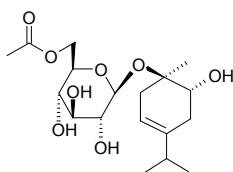
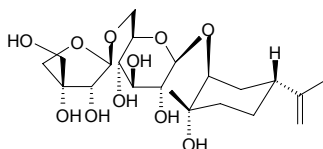
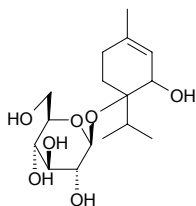
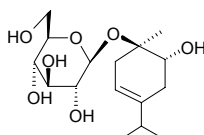
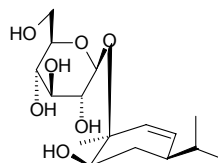
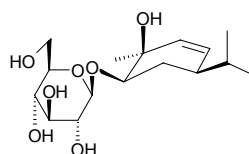
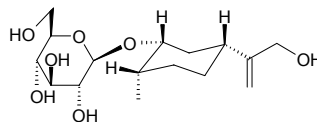
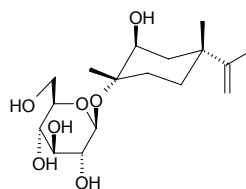
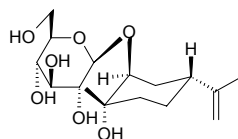
C₁₀H₂₀O₄ (204.27). Amorphous powder, $[\alpha]_D^{21} = -3^\circ$ ($c = 0.2$, MeOH). **Source:** GE LU ZI *Carum carvi* (fruit). **Ref:** 4153.

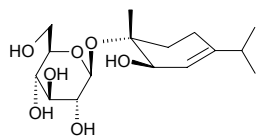
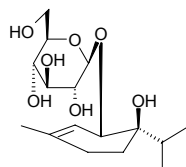
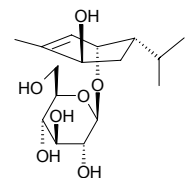
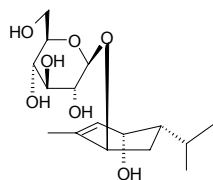
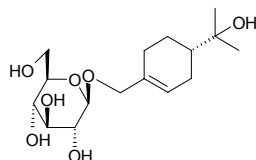
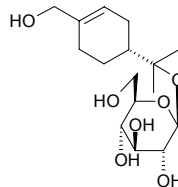
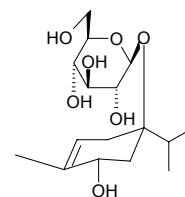
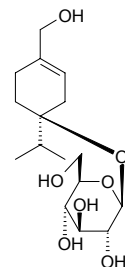
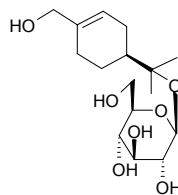
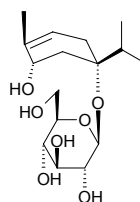
**13732 (1*R*,2*S*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrol**

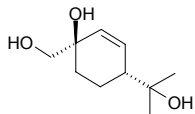
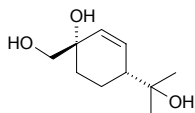
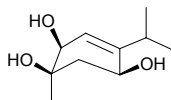
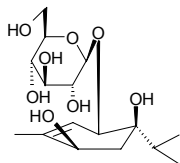
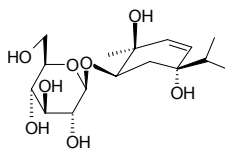
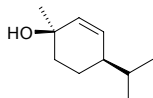
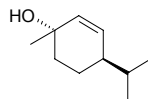
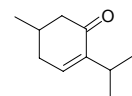
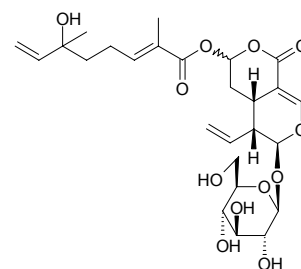
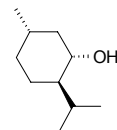
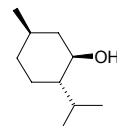
C₁₀H₂₀O₄ (204.27). Amorphous powder, $[\alpha]_D^{22} = +27^\circ$ ($c = 0.8$, MeOH). **Source:** GE LU ZI *Carum carvi* (fruit). **Ref:** 4153.



13733 *rel*-(1*S*,2*R*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrolC₁₀H₂₀O₄ (204.27). Amorphous powder, [α]_D²³ = +26° (c = 0.1, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13734** *rel*-(1*S*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrolC₁₀H₂₀O₄ (204.27). Amorphous powder, [α]_D²³ = +11° (c = 0.1, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13735** (1*S*,2*S*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrolC₁₀H₂₀O₄ (204.27). Amorphous powder, [α]_D²² = +30° (c = 0.4, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13736** *rel*-(1*R*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol 9-*O*-β-*D*-glucopyranosideC₁₆H₃₀O₉ (366.41). Amorphous powder, [α]_D²³ = -15° (c = 0.2, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13737** (1*S*,2*S*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrol 2-*O*-β-*D*-glucopyranosideC₁₆H₃₀O₉ (366.41). Amorphous powder, [α]_D²⁴ = +17° (c = 0.7, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13738** (1*S*,2*S*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol 2-*O*-β-*D*-glucopyranosideC₁₆H₃₀O₉ (366.41). Colorless needles(MeOH), mp 137~138°C, [α]_D²⁴ = +22°(c = 1.3, MeOH). Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13739** *trans*-*p*-Menthane-1α,2β,8-triolC₁₀H₂₀O₃ (188.27). Amorphous powder, [α]_D²⁵ = +21° (c = 0.1, MeOH).Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.**13740** 4-*p*-Menthane-1,7,8-triolC₁₀H₂₀O₃ (188.27). Colorless prismatic crystals (chloroform), mp 149~151°C.Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 244.**13741** (1*S*,2*R*,4*R*,8*S*)-*p*-Menthane-2,8,9-triol 2-*O*-β-*D*-glucopyranosideC₁₆H₃₀O₈ (350.41). Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.**13742** Δ¹⁽⁷⁾-MentheneC₁₀H₁₈ (138.26). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.**13743** Δ³-Menthene[500-00-5] C₁₀H₁₈ (138.26). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.**13744** *p*-1-MentheneC₁₀H₁₈ (138.25). mp (+) 175~177°C. Source: MEI GUI HUA *Rosa rugosa*. Ref: 6.

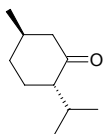
13745 (1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol 1-*O*- β -*D*-(2-*O*-acetyl)glucopyranosideC₁₈H₃₀O₈ (374.44). Amorphous powder, $[\alpha]_D^{22} = -32^\circ$ ($c = 0.4$, MeOH).Source: SHE XIANG CAO *Thymus vulgaris* (leaf). Ref: 3895.**13746 (1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol 1-*O*- β -*D*-(6-*O*-acetyl)glucopyranoside**C₁₈H₃₀O₈ (374.44). Amorphous powder, $[\alpha]_D^{24} = -38^\circ$ ($c = 0.4$, MeOH).Source: SHE XIANG CAO *Thymus vulgaris* (leaf). Ref: 3895.**13747 (1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 2-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside**C₂₁H₃₆O₁₁ (464.51). Amorphous powder, $[\alpha]_D^{22} = -33^\circ$ ($c = 0.8$, MeOH).Source: SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.**13748 *p*-Menth-1-ene-3,4-diol 4-*O*- β -glucopyranoside**C₁₆H₂₈O₇ (332.40). $[\alpha]_D^{25} = -18.9^\circ$ ($c = 1.50$, MeOH). Source: XU LI YA NIUZHI *Origanum syriacum* (aerial parts). Ref: 5223.**13749 (1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Colorless needles (MeOH), mp 137~139°C, $[\alpha]_D^{24} = -42^\circ$ ($c = 2.0$, MeOH). Source: SHE XIANG CAO *Thymus vulgaris* (leaf).Ref: 3895.**13750 (1*S*,2*R*,4*R*)-*p*-Menth-5-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, $[\alpha]_D^{21} = -23^\circ$ ($c = 0.6$, MeOH).Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13751 (1*S*,2*R*,4*R*)-*p*-Menth-5-ene-1,2-diol 2-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, $[\alpha]_D^{23} = +8^\circ$ ($c = 1.8$, MeOH). Source:ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13752 (1*S*,2*R*,4*R*)-*p*-Menth-8-ene-2,10-diol 2-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, $[\alpha]_D^{25} = -26^\circ$ ($c = 0.9$, MeOH).Source: GE LU ZI *Carum carvi* (fruit). Ref: 4153.**13753 (1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, $[\alpha]_D^{24} = +7^\circ$ ($c = 0.3$, MeOH). Source:SHI LUO ZI *Anethum graveolens* (fruit). Ref: 4177.**13754 (1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 2-*O*- β -*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Colorless needles (MeOH), mp 154~156°C, $[\alpha]_D^{25} = +13^\circ$ ($c = 1.7$, MeOH). Source: GE LU ZI *Carum carvi* (fruit), SHI LUO ZI*Anethum graveolens* (fruit). Ref: 4153, 4177.

13755 (1*R*,2*R*)-*p*-Menth-3-ene-1,2-diol 2-*O*-β-*D*-glucopyranosideC₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²² = -23° (*c* = 1.7, MeOH).Source: SHE XIANG CAO *Thymus vulgaris* (leaf). Ref: 3895.**13756 (3*R*,4*R*)-*p*-Menth-1-ene-3,4-diol 3-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²¹ = -86° (*c* = 0.6, MeOH).Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13757 (3*R*,4*S*,6*R*)-*p*-Menth-1-ene-3,6-diol 3-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Colorless needles, mp 215~217 °C, [α]_D²³ = +126° (*c* = 0.2,MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13758 (3*R*,4*S*,6*R*)-*p*-Menth-1-ene-3,6-diol 6-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Colorless needles, mp 215~217 °C, [α]_D²³ = +89° (*c* = 0.5,MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13759 (4*R*)-*p*-Menth-1-ene-7,8-diol 7-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²⁴ = -6° (*c* = 0.3, MeOH). Source:ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13760 (4*R*)-*p*-Menth-1-ene-7,8-diol 8-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²⁴ = +8°. Source: BEI SHASHEN *Glehnia littoralis* (fruit). Ref: 3525.**13761 (4*R*,6*S*)-*p*-Menth-1-ene-4,6-diol 4-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²⁴ = -29° (*c* = 1.8, MeOH).Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.**13762 (4*S*)-*p*-Menth-1-ene-4,7-diol 4-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²⁴ = -15° (*c* = 0.5, MeOH).Source: YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.**13763 (4*S*)-*p*-Menth-1-ene-7,8-diol 8-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Amorphous powder, [α]_D²⁵ = -50°. Source: GE LU ZI*Carum carvi* (fruit). Ref: 4153.**13764 (4*S*,6*S*)-*p*-Menth-1-ene-4,6-diol 4-*O*-β-*D*-glucopyranoside**C₁₆H₂₈O₇ (332.40). Colorless needles, mp 78~81°C, [α]_D²¹ = -2° (*c* = 0.7,MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.

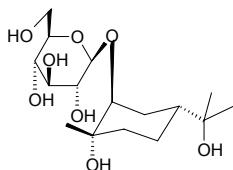
13765 cis-p-Menth-2-ene-1 α ,7,8-triolC₁₀H₁₈O₃ (186.25). Amorphous powder, [α]_D²⁴ = +26° (c = 0.1, MeOH).Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.**13766 trans-p-Menth-2-ene-1 α ,7,8-triol**C₁₀H₁₈O₃ (186.25). Amorphous powder, [α]_D²⁴ = +13° (c = 0.3, MeOH).Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.**13767 p-Menth-3-ene-1 β ,2 β ,5 β -triol**C₁₀H₁₈O₃ (186.25). Amorphous powder, [α]_D²³ = +2° (c = 0.2, MeOH). Source:YIN DU ZANG HUI XIANG *Carum ajowan* (fruit). Ref: 3547.**13768 (3R,4R,6R)-p-Menth-1-ene-3,4,6-triol 3-O- β -D-glucopyranoside**C₁₆H₂₈O₈ (348.40). Amorphous powder, [α]_D²² = -97° (c = 0.1, MeOH).Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13769 (1S,2R,4S)-p-Menth-5-ene-1,2,4-triol 2-O- β -D-glucopyranoside**C₁₆H₂₈O₈ (348.40). Amorphous powder, [α]_D²³ = -60° (c = 1.1, MeOH).Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 4243.**13770 cis-p-2-Menthen-1-ol**C₁₀H₁₈O (154.25). bp (-) 110~115°C/25mmHg. Source: HU JIAO *Piper nigrum*. Ref: 6.**13771 trans-p-2-Menthen-1-ol**C₁₀H₁₈O (154.25). Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*]. Ref: 6.**13772 p-Menth-4-en-3-one**C₁₀H₁₆O (152.24). Source: RU XIANG *Boswellia carterii*, DENG XIN CAO *Juncus effusus*. Ref: 1271, 1520.**13773 Menthafolin**[19351-64-5] C₂₆H₃₆O₁₂ (540.57). mp 186°C. Source: SHUI CAI *Menyanthes trifoliata* (the compound was isolated from the plant by Battersby et al. in 1968)^[5505], SHUI CAI GEN *Menyanthes trifoliata*. Ref: 6, 5505.**13774 Menthol**C₁₀H₂₀O (156.27). mp (+) 42°C, (±) 35~36°C. Pharm: Analgesic; anesthetic; anti-inflammatory; relieves itching; used in treatment of headache, neuralgia, itching, respiratory tract inflammation, atrophic rhinitis and celostomia (alalia). Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*] (dried aerial parts: content scope = 0.77%~0.87%)^[5501], HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN XIAN CAO *Glechoma longituba*. Ref: 2, 4, 6, 658, 660, 5501.**13775 Menthol-b**C₁₀H₂₀O (156.27). mp (-) 43°C, (±) 35~36°C. Source: BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], JIN XIAN CAO *Glechoma longituba*, ZI SU YE *Perilla frutescens* var. *arguta*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 2, 4, 6, 660.

13776 Menthone

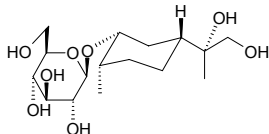
$C_{10}H_{18}O$ (154.25). bp (+) 204°C, (-) 207°C, (\pm) 205°C. **Pharm:** Analgesic ((+)Menthone shows strong action, as the effective component in *Schizonepeta tenuifolia* (JING JIE) to settle pain); inhibits intestinal movement (*in vitro* rabbit intestine). **Source:** BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*] (dried aerial parts: content scope = 0.08%–0.12%)^[5501], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], HUA DONG LAN CI TOU *Echinops grijsii*, *Mentha* sp. **Ref:** 2, 658, 660, 5501.

**13777 (1S,2S,4R)-p-Menth-1,2,8-triol 2-O-β-D-glucopyranoside**

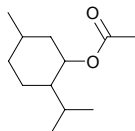
$C_{16}H_{30}O_8$ (350.41). Amorphous powder, $[\alpha]_D^{21} = +9^\circ$ ($c = 0.3$, MeOH). **Source:** SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 4177.

**13778 (1R,2R,4R,8R)-p-Menth-2,8,9-triol 2-O-β-D-glucopyranoside**

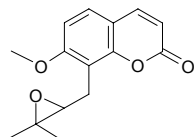
$C_{16}H_{30}O_8$ (350.41). Amorphous powder, $[\alpha]_D^{22} = -50^\circ$ ($c = 0.2$, MeOH). **Source:** SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 4177.

**13779 Menthyl acetate**

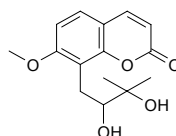
$C_{12}H_{22}O_2$ (198.31). bp 227°C. **Pharm:** Flavorant. **Source:** LA BO HE *Mentha piperita*, BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*]. **Ref:** 2, 658.

**13780 Meranzin**

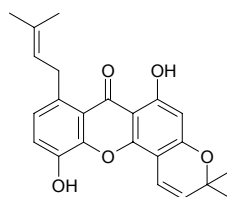
$C_{15}H_{16}O_4$ (260.29). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 1272.

**13781 Meranzin hydrate**

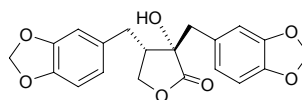
7-Methoxy-8-(2',3'-dihydroxy-3'-methylbutyl)coumarin $C_{15}H_{18}O_5$ (278.31). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 11, 344, 1291.

**13782 Merguenone**

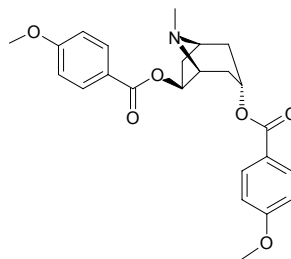
$C_{23}H_{22}O_5$ (378.43). **Source:** *Garcinia merguensis*. **Ref:** 3392.

**13783 Meridinol**

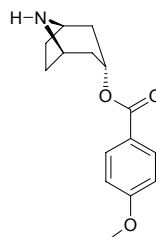
$C_{20}H_{18}O_7$ (370.36). **Source:** YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.050%dw). **Ref:** 4707.

**13784 Merredissine**

3 α ,6 β -Di-(4-methoxybenzoyloxy)tropane $C_{24}H_{27}NO_6$ (425.49). Oil, $[\alpha]_D^{20} = -8.6^\circ$ ($c = 0.2$, MeOH). **Source:** SHEN LIE YU HUANG CAO *Merremia dissecta* (ground root). **Ref:** 5292.

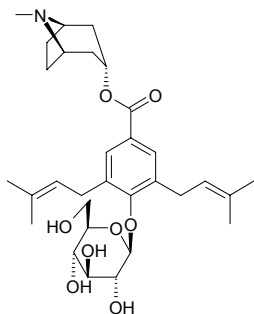
**13785 Merresectine A**

3 α -(4-Methoxybenzoyloxy)nortropane $C_{15}H_{19}NO_3$ (261.32). Yellow solid. **Source:** SHEN LIE YU HUANG CAO *Merremia dissecta* (ground root). **Ref:** 5292.

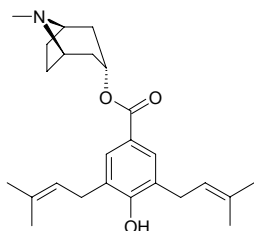


13786 Merresectine B

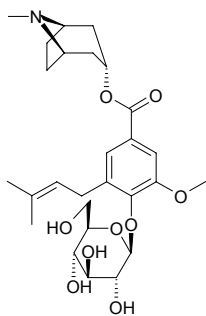
3 α -Kurameroyloxytropine C₃₁H₄₅NO₈ (559.71). Oil, [α]_D²⁰ = -10.2° (c = 0.1, MeOH). Source: SHEN LIE YU HUANG CAO *Merremia dissecta* (ground root). Ref: 5292.

**13787 Merresectine C**

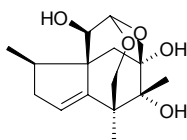
3 α -Nervogenoyloxytropine C₂₅H₃₅NO₃ (397.56). Oil. Source: SHEN LIE YU HUANG CAO *Merremia dissecta* (ground root). Ref: 5292.

**13788 Merresectine D β -D-glucoside**

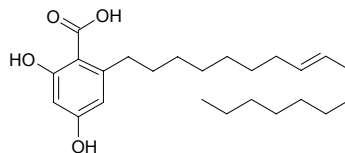
3 α -[4-(β -D-Glucopyranosyloxy)-3-methoxy-5-(3-methyl-2-butenyl)benzoyloxy]tropine C₂₇H₃₉NO₉ (521.61). Oil. Source: SHEN LIE YU HUANG CAO *Merremia dissecta* (ground root). Ref: 5292.

**13789 Merrillanone**

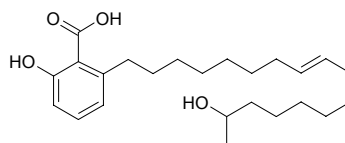
C₁₅H₂₂O₅ (282.34). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1-10 μ mol/L). Source: *Illicium merrillianum* (pericarp: yield = 0.00006% dw). Ref: 3046.

**13790 Merulinic acid A**

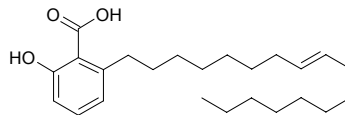
[69506-63-4] C₂₄H₃₈O₄ (390.57). Source: LIAN ZUO GE JUN *Thelephora vialis*. Ref: 660.

**13791 Merulinic acid B**

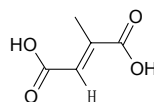
[69506-64-5] C₂₄H₃₈O₄ (390.57). Source: LIAN ZUO GE JUN *Thelephora vialis*. Ref: 660.

**13792 Merulinic acid C**

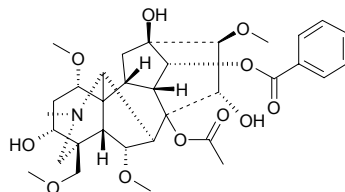
[69506-65-6] C₂₄H₃₈O₃ (374.57). Source: LIAN ZUO GE JUN *Thelephora vialis*. Ref: 660.

**13793 Mesaconic acid**

[498-24-8] C₅H₆O₄ (130.10). mp 240.5°C. Source: GAN ZHE *Saccharum sinensis*. Ref: 6.

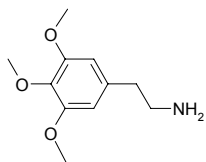
**13794 Meseconitine**

[2752-64-9] C₃₃H₄₅NO₁₁ (631.73). White granular crystals, [α]_D²⁶ = +22.4° (c = 1.511, CHCl₃). Pharm: Analgesic (mouse, tail pressure test, ED₅₀ = 0.02mg/kg, LD₅₀/ED₅₀ = 19.0); acute toxicity (mouse, LD₅₀ = 0.38mg/kg)^[5451]; similar action with aconitine (weaker than that of aconitine). Source: BEI WU TOU *Aconitum kusnezoffii* (dried tuberoid: content = 0.11%)^[5508], FU ZI *Aconitum carmichaeli* (daughter root: content = 0.027%)^[5508], OU WU TOU *Aconitum napellus*, WU TOU *Aconitum carmichaeli* (dried tuberoid: content = 0.023%)^[5508]. Ref: 2, 460, 658, 5451, 5508.

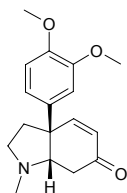


13795 Mescaline

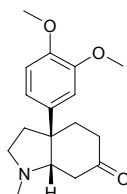
[54-04-6] C₁₁H₁₇NO₃ (211.26). **Pharm:** Causes mental illness; hallucinogen (high dose); CNS depressant. **Source:** AN LU LONG SHE LAN *Lophophora williamsii*. **Ref:** 658.

**13796 Mesembrenone**

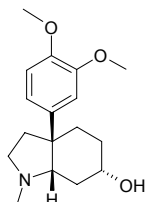
C₁₇H₂₁NO₃ (287.36). **Pharm:** Anesthetic; stimulant. **Source:** KUO ZHANG SONG YE JU *Mesembryanthemum expansum*, MING SONG YE JU *Mesembryanthemum anatomicum*, NIU QU SONG YE JU *Mesembryanthemum tortuosum*. **Ref:** 658.

**13797 Mesembrine**

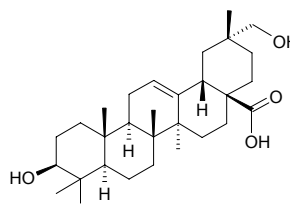
C₁₇H₂₃NO₃ (289.38). White or yellowish powder, mp 90, [α]_D¹⁷ = -54.0° (methanol). **Pharm:** Anesthetic; CNS stimulant. **Source:** KUO ZHANG SONG YE JU *Mesembryanthemum expansum*, MING SONG YE JU *Mesembryanthemum anatomicum*, NIU QU SONG YE JU *Mesembryanthemum tortuosum*. **Ref:** 661.

**13798 Mesembrinol**

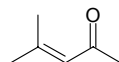
C₁₇H₂₅NO₃ (291.39). **Pharm:** Anesthetic; stimulant. **Source:** KUO ZHANG SONG YE JU *Mesembryanthemum expansum*, NIU QU SONG YE JU *Mesembryanthemum tortuosum*, MING SONG YE JU *Mesembryanthemum anatomicum*. **Ref:** 658.

**13799 Mesembryanthemoidigenic acid**

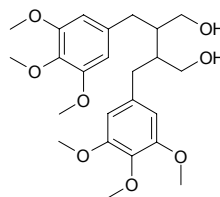
29-Hydroxy oleanic acid; 3β,29-Dihydroxyolean-12-en-28-oic acid [4871-87-8] C₃₀H₄₈O₄ (472.71). **Source:** MU TONG *Akebia quinata*, NA TENG *Stauntonia hexaphylla*. **Ref:** 1273, 1274.

**13800 Mesityl oxide**

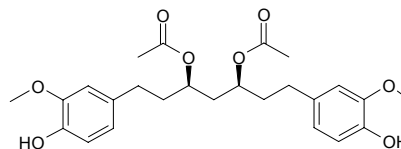
[141-79-7] C₆H₁₀O (98.15). bp 130~131°C. **Source:** YA ER QIN *Cryptotaenia japonica*. **Ref:** 6.

**13801 Meso-2,3-bis(3,4,5-trimethoxybenzyl)-1,4-butanediol**

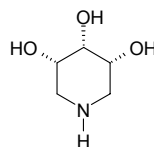
C₂₄H₃₄O₈ (450.53). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**13802 Meso-3,5-diacetoxy-1,7-bis-(4-hydroxy-3-methoxyphenyl) heptane**

C₂₅H₃₂O₈ (460.53). **Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2.

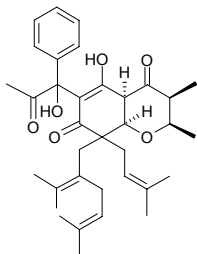
**13803 Mesotrihydroxypiperidine**

[172588-13-5] C₅H₁₁NO₃ (133.15). Colorless oil, [α]_D = ±0° (c = 0.3, methanol). **Pharm:** α-Glucosidase inhibitor (IC₅₀ = 3.70 μmol/L); α-mannosidase inhibitor (IC₅₀ = 1.88 μmol/L). **Source:** PEI LAN *Eupatorium fortunei*. **Ref:** 1192.

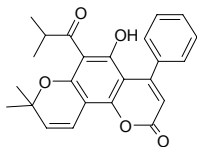


13804 Mesuaferrol

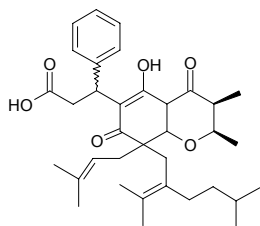
$C_{35}H_{46}O_6$ (562.75). Source: TIE LI MU *Mesua ferrea*. Ref: 1275.

**13805 Mesuagin**

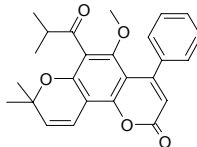
[21721-08-4] $C_{24}H_{22}O_5$ (390.44). Source: TIE LI MU *Mesua ferrea*. Ref: 1276.

**13806 Mesuanic acid**

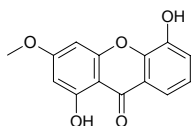
[55303-94-1] $C_{35}H_{48}O_6$ (564.77). Source: TIE LI MU *Mesua ferrea*. Ref: 1277.

**13807 Mesuarin**

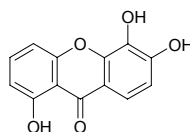
[21721-10-8] $C_{25}H_{24}O_5$ (404.47). Source: TIE LI MU *Mesua ferrea*. Ref: 1278.

**13808 Mesuaxanthone A**

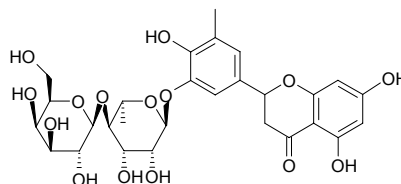
[3561-81-7] $C_{14}H_{10}O_5$ (258.23). Pharm: Anti-inflammatory; antifungal (*Aspergillus fumigatus* CBS113.26, $MIC_{80} = 31\mu\text{g/mL}$, control Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus flavus* IHEM37.19, $MIC_{80} = 31\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 8\mu\text{g/mL}$; *Aspergillus niger* IHEM2951, $MIC_{80} = 125\mu\text{g/mL}$, Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Aspergillus terreus* 5029.2000, $MIC_{80} > 250\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 16\mu\text{g/mL}$; *Candida albicans* ATCC663.90, $MIC_{80} > 250\mu\text{g/mL}$; Amphotericin B, $MIC_{80} = 1\mu\text{g/mL}$)^[4995]; cytotoxic (P_{388} $ED_{50} = 2.76\mu\text{g/mL}$, control Mithramycin $ED_{50} = 0.06\mu\text{g/mL}$, HT29 $ED_{50} = 7.51\mu\text{g/mL}$, control Mithramycin $ED_{50} = 0.08\mu\text{g/mL}$)^[4094]. Source: DA YE TENG HUANG *Garcinia xanthochymus*, SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex), TIE LI MU *Mesua ferrea*, TAI WAN LV DAO TENG HUANG *Garcinia linii*, *Vismia* sp. Ref: 658, 4094, 4995.

**13809 Mesuaxanthone B**

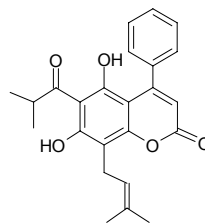
1,5,6-Trihydroxyxanthone $C_{13}H_8O_5$ (244.21). Pharm: Anti-inflammatory. Source: TIE LI MU *Mesua ferrea*, FEI ZHOU HUANG GUO MU *Mammea africana*, HAI TANG GUO *Calophyllum inophyllum*, *Garcinia* sp. Ref: 658, 660, 1210.

**13810 Mesuein**

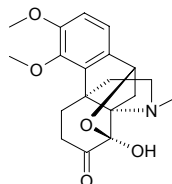
[111128-08-6] $C_{28}H_{34}O_{15}$ (610.57). Source: TIE LI MU *Mesua ferrea*. Ref: 1279.

**13811 Mesuol**

$C_{24}H_{24}O_5$ (392.46). Pharm: Antibacterial (*Enterococcus faecalis* 18292, $MIC = 16\mu\text{g/mL}$; *Enterococcus faecalis* 19250, $MIC = 16\mu\text{g/mL}$; *Enterococcus faecalis* 11268, $MIC = 16\mu\text{g/mL}$; *Enterococcus faecium* 5, $MIC = 16\mu\text{g/mL}$; *Streptococcus durans* 23, $MIC = 16\mu\text{g/mL}$)^[3870]; antibacterial (*Staphylococcus aureus* 17380, $MIC = 4\mu\text{g/mL}$; *Staphylococcus aureus* 17592, $MIC = 2\mu\text{g/mL}$; *Staphylococcus aureus* 18110, $MIC = 2\mu\text{g/mL}$; *Staphylococcus aureus* 17728, $MIC = 4\mu\text{g/mL}$; *Staphylococcus epidermidis* 3112, $MIC = 2\mu\text{g/mL}$; *Staphylococcus simulans* 214, $MIC = 2\mu\text{g/mL}$)^[3870]; antimalarial (*Plasmodium falciparum* D10 (CQ-S), $IC_{50} = (10.75 \pm 0.14)\mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.011 \pm 0.004)\mu\text{g/mL}$; W2 (CQ-R), $IC_{50} = (8.91 \pm 0.27)\mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.229 \pm 0.090)\mu\text{g/mL}$)^[3870]. Source: TIE LI MU *Mesua ferrea*. Ref: 1240, 3870.

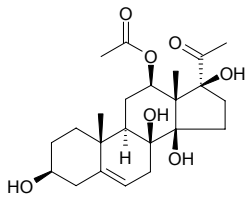
**13812 Metaphanine**

[1805-86-3] $C_{19}H_{23}NO_5$ (345.40). mp 233°C. Source: QIAN JIN TENG *Stephania japonica*. Ref: 6.

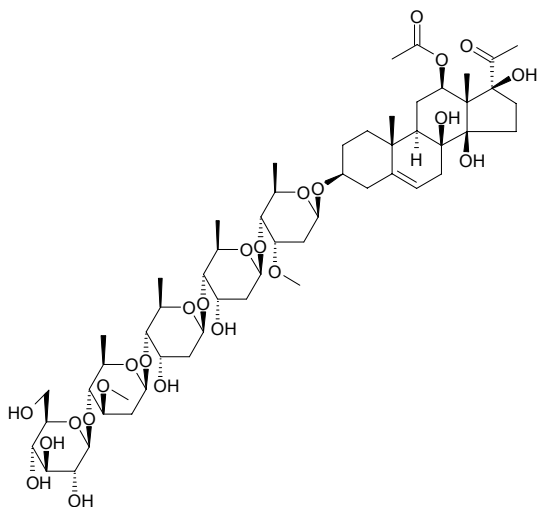


13813 Metaplexigenin

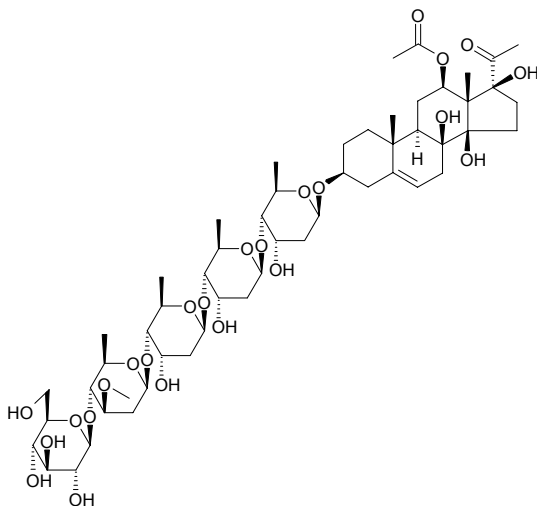
$C_{23}H_{34}O_7$ (422.52). mp 268~275°C. Source: LUO MO *Metaplexis japonica*, ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 6, 3925.

**13814 Metaplexigenin-3-O-β-D-glucopyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranoside**

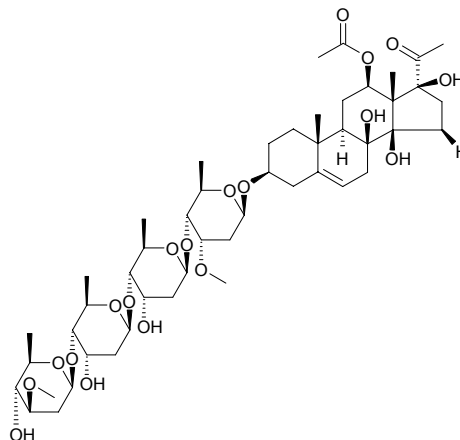
$C_{55}H_{88}O_{24}$ (1133.30). Amorphous powder, $[\alpha]_D^{27} = +1.3^\circ$ ($c = 0.65$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**13815 Metaplexigenin-3-O-β-D-glucopyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

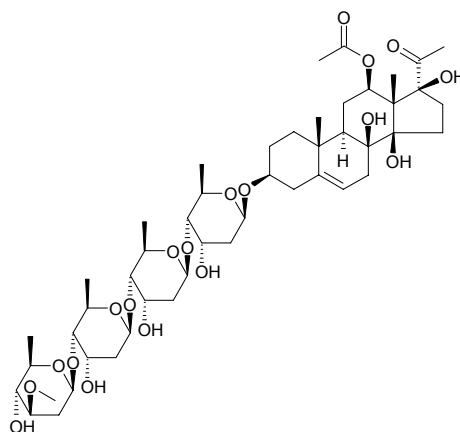
$C_{54}H_{86}O_{24}$ (1119.27). Amorphous powder, $[\alpha]_D^{27} = -0.83^\circ$ ($c = 1.03$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**13816 Metaplexigenin-3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-cymaropyranoside**

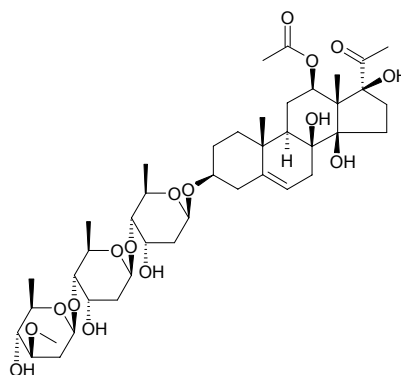
$C_{49}H_{78}O_{19}$ (971.16). Amorphous powder, $[\alpha]_D^{27} = +2.2^\circ$ ($c = 0.74$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**13817 Metaplexigenin-3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

$C_{48}H_{76}O_{19}$ (957.13). Amorphous powder, $[\alpha]_D^{24} = -4.5^\circ$ ($c = 1.04$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

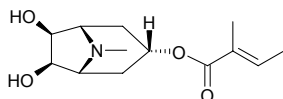
**13818 Metaplexigenin-3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

$C_{42}H_{66}O_{16}$ (826.98). Amorphous powder, $[\alpha]_D^{23} = -9.7^\circ$ ($c = 1.02$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

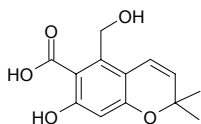


13819 Meteloidine

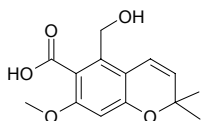
3-(3,6,7-Tropanetriol)triglate; 6,7-Dihydroxy-3-tiglyloxytropane [526-13-6] $C_{13}H_{21}NO_4$ (255.32). Acicular crystals (benzene), mp 141~142°C, easily soluble in ethanol, chloroform, acetone, slightly soluble in water, ether, benzene.^[5507] **Pharm:** Hallucinogen^[5507]; aphrodisiac^[5507]. **Source:** MAO MAN TUO LUO YE *Datura innoxia*, MAO MAN TUO LUO GEN *Datura innoxia*, MAO MAN TUO LUO ZI *Datura innoxia*, XIANG MAN TUO LUO *Datura metaloides*^[5509] (in 1908, isolated from the plant for the first time^[5507]). **Ref:** 6, 660, 5507, 5509.

**13820 5-Methanol-7-hydroxy-2,2-dimethyl-2H-1-chromene-6-carboxylic acid**

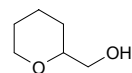
$C_{13}H_{14}O_5$ (250.25). Amorphous solid. **Pharm:** Antifungal (*Cladosporium sphaerospermum*, 100µg, weak activity; *Cladosporium cladosporioides*, 100µg, weak activity). **Source:** *Peperomia villipetiola* (stem). **Ref:** 5256.

**13821 5-Methanol-7-methoxy-2,2-dimethyl-2H-1-chromene-6-carboxylic acid**

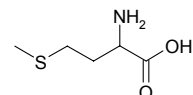
$C_{14}H_{16}O_5$ (264.28). Amorphous solid. **Pharm:** Antifungal (*Cladosporium sphaerospermum*, 100µg, moderate activity; *Cladosporium cladosporioides*, 100µg, strong activity). **Source:** *Peperomia villipetiola* (stem). **Ref:** 5256.

**13822 2-Methanol tetrahydropyran**

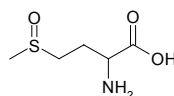
$C_6H_{12}O_2$ (116.16). **Source:** AI YE *Artemisia argyi*. **Ref:** 1280.

**13823 Methionine**

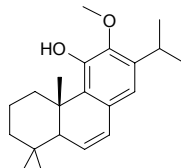
2-Amino-4-(methylthio)butanoic acid $C_5H_{11}NO_2S$ (149.21). **Pharm:** Acts against hepatic adipose infiltration; promotes biosynthesis of glutathione. **Source:** BAI GUO *Ginkgo biloba*, BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.13%~0.99%, mean content = 0.44%)^[5521], CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, NING XIA GOU QI ZI *Lycium barbarum*, QIU HUA DANG SHEN *Codonopsis subglobosa*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*]. **Ref:** 2, 658, 660, 5521.

**13824 Methionine sulfoxide**

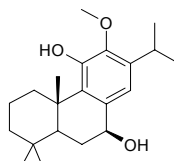
[62697-73-8] $C_5H_{11}NO_3S$ (165.21). mp 230~231°C (dec). **Source:** YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**13825 12-Methoxy-6,8,11,13-abietatraen-11-ol**

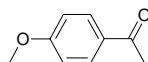
[34327-31-6] $C_{21}H_{30}O_2$ (314.47). **Source:** DU SONG SHI *Juniperus rigida*. **Ref:** 6.

**13826 12-Methoxy-8,11,13-abietatriene-7β,11-diol**

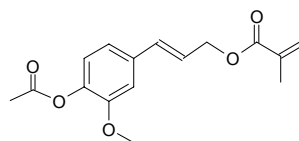
[34327-30-5] $C_{21}H_{32}O_3$ (332.49). **Source:** DU SONG SHI *Juniperus rigida*. **Ref:** 6.

**13827 4-Methoxy-acetophenone**

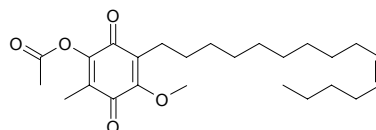
[100-06-1] $C_9H_{10}O_2$ (150.18). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.

**13828 3-Methoxy-4-acetoxycinnamyl angelate**

$C_{17}H_{20}O_5$ (304.35). **Source:** YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. **Ref:** 1281.

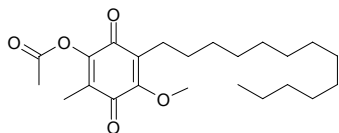
**13829 2-Methoxy-5-acetoxy-6-methyl-3-[(z)-10'-pentadecenyl]-1,4-benzoquinone**

$C_{25}H_{38}O_5$ (418.58). Yellow gum. **Source:** PI ZHEN DU JING SHAN *Maesa lanceolata*. **Ref:** 1860.

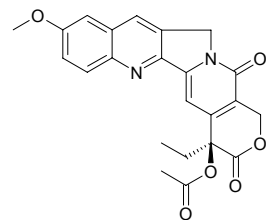


13830 2-Methoxy-5-acetoxy-6-methyl-3-tridecyl-1,4-benzoquinone

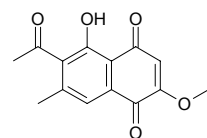
$C_{23}H_{36}O_5$ (392.54). Pale-yellow needles (hot *n*-hexane), mp 45~46°C. Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 1860.

**13831 10-Methoxy-20-O-acetylcampthothecin**

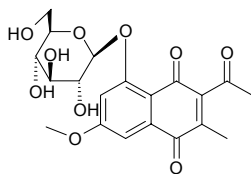
$C_{23}H_{20}N_2O_6$ (420.43). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.

**13832 2-Methoxy-6-acetyl-7-methyljuglone**

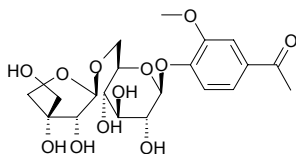
$C_{14}H_{12}O_5$ (260.25). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 2.

**13833 6-Methoxy-2-acetyl-3-methyl-1,4-naphthoquinone-8-O-β-D-glucopyranoside**

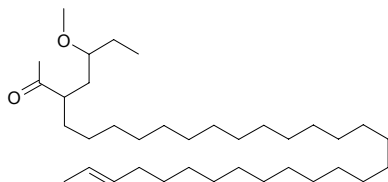
$C_{20}H_{22}O_{10}$ (422.39). Yellow acicular crystals mp 164~165°C. Source: HE SHOU WU *Polygonum multiflorum*. Ref: 847.

**13834 2-Methoxy-4-acetylphenyl-1-O-β-D-apiofuranosyl-(1''→6'')-β-D-glucopyranoside**

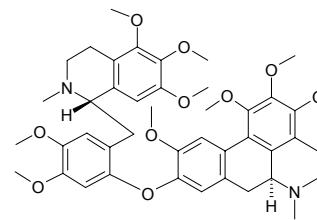
$C_{20}H_{28}O_{12}$ (460.44). Source: DA XUE TENG *Sargentodoxa cuneata* (stem). Ref: 5337.

**13835 3-Methoxy-5-acetyl-31-tritriacontene**

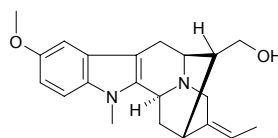
$C_{36}H_{70}O_2$ (534.96). Source: XIAN MAO *Curculigo orchoides*. Ref: 1282.

**13836 Methoxyadiantifoline**

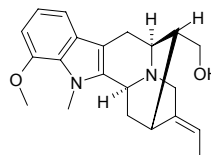
[115452-09-0] $C_{43}H_{52}N_2O_{10}$ (756.90). White acicular crystals (mineral ether), mp 153~155°C, $[\alpha]_D^{13} = +77^\circ$ ($c = 0.3$, methanol). Pharm: Antiarrhythmic (rat and gpg arrhythmia cordis caused by aconitine, 10mg/kg); calcium antagonist (ileal smooth muscle relaxant in gpg, $IC_{50} = 2.53\mu\text{mol/L}$); coronary vasodilator (gpg heart *in vitro*, enhances blood flow through coronary arteries); inhibits myocardial automatic rhythmicity and contractile power to prolong the effective refractory period. Source: XIANG TANG SONG CAO *Thalictrum foetidum*, E MEI TANG SONG CAO *Thalictrum omeiense*. Ref: 900, 1477.

**13837 10-Methoxyaffinisine**

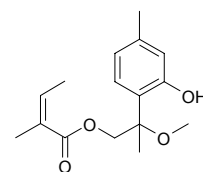
$C_{21}H_{26}N_2O_2$ (338.45). mp 205~206°C, $[\alpha]_D = +75^\circ$ ($c = 0.62$, CHCl_3). Source: DA YE TANG JIAO SHU *Alstonia macrophylla*. Ref: 2320.

**13838 12-Methoxyaffinisine**

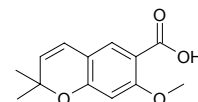
$C_{21}H_{26}N_2O_2$ (338.45). Yellow amorphous solid. Source: BA XI LUO FU MU *Rauvolfia bahiensis*. Ref: 1952.

**13839 8-Methoxy-9-O-angeloylthymol**

$C_{16}H_{22}O_4$ (278.35). $[\alpha]_D^{20} = 0^\circ$ ($c = 0.97$, CHCl_3). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

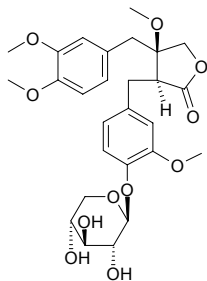
**13840 7-Methoxyanofinic acid**

7-Methoxy-2,2-dimethyl-2H-1-benzopyran-6-carboxylic acid [179457-70-6] $C_{13}H_{14}O_4$ (234.25). Source: QIN JIAO *Gentiana macrophylla*. Ref: 707.

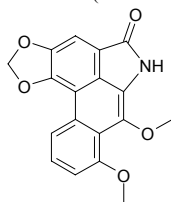


13841 3-Methoxyartemisinin-4''-O-β-D-xyloside

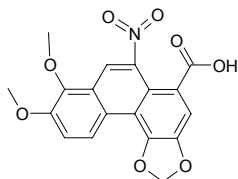
$C_{27}H_{34}O_{11}$ (534.57). Colorless lamellar crystals, mp 166–168°C. Source: NIU XI XI *Rumex patientia*. Ref: 2164.

**13842 9-Methoxyaristolactam I**

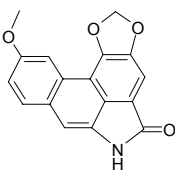
$C_{18}H_{13}NO_5$ (323.31). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00071%)^[4706], MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.00062%dw)^[3026]. Ref: 3026, 4706.

**13843 7-Methoxy-aristolochiac acid**

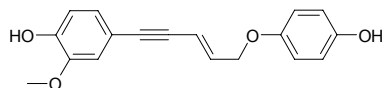
[79185-74-3] $C_{18}H_{13}NO_8$ (371.31). Source: QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 517.

**13844 6-Methoxy-aristolactam**

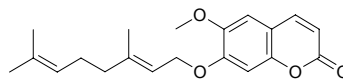
$C_{17}H_{11}NO_4$ (293.28). Source: MIAN MAO MA DOU LING *Aristolochia mollissima*. Ref: 1283.

**13845 3''-Methoxyasparenediol**

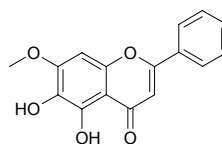
1-[4-Hydroxyphenoxy]-5-[3-methoxy-4-hydroxyphenyl]pent-2-en-3-yne
 $C_{18}H_{16}O_4$ (296.33). Yellowish powder. Pharm: Cytotoxic (*in vitro*, KB, IC_{50} = 12 μg/mL (40.5 μmol/L), Lu1, IC_{50} = 19.7 μg/mL (66.5 μmol/L), control Ellipticine: KB, IC_{50} = 0.04 μg/mL (0.16 μmol/L), Lu1, IC_{50} = 0.02 μg/mL (0.08 μmol/L), HOG.R5, IC_{50} = 0.02 μg/mL (0.08 μmol/L)), HOG.R5, IC_{50} < 5 μg/mL (< 17 μmol/L), cytotoxic inactive (Col2, LNCaP, HUVEC, IC_{50} > 20 μg/mL). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root: yield = 0.00019%dw). Ref: 3009.

**13846 6-Methoxy auraptin**

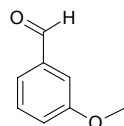
7-Geranyloxy-6-methoxycoumarin $C_{20}H_{24}O_4$ (328.41). Pharm: EBV-EA inhibitor (TPA-induced, IC_{50} = 312 Mol ratio/32 pmol TPA, control β-Carotene, IC_{50} = 400 Mol ratio/32 pmol TPA)^[5255]. Source: GOU JU HE *Poncirus trifoliata*, YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). Ref: 6, 5255.

**13847 7-Methoxybaicalein**

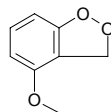
[29550-13-8] $C_{16}H_{12}O_5$ (284.27). Source: GUANG YE SHUI SU *Stachys palustris*, HUANG QIN *Scutellaria baicalensis*. Ref: 6, 660.

**13848 m-Methoxybenzaldehyde**

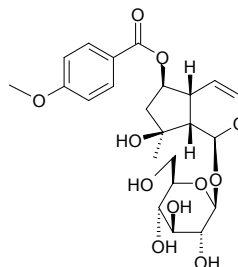
[591-31-1] $C_8H_8O_2$ (136.15). bp 230°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. Ref: 6.

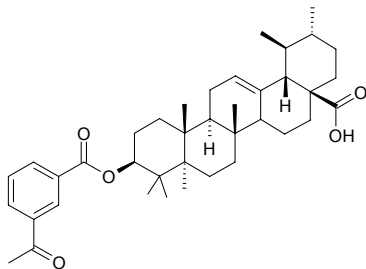
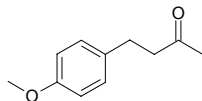
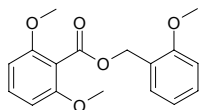
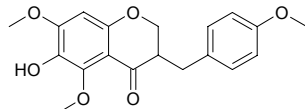
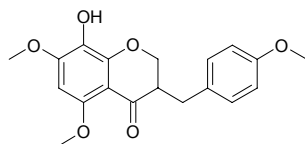
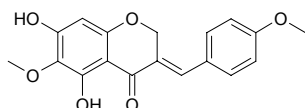
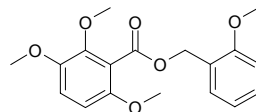
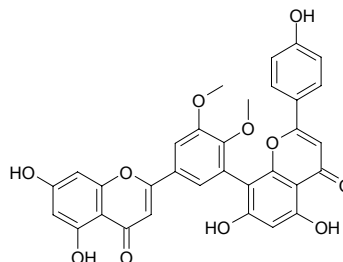
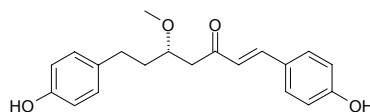
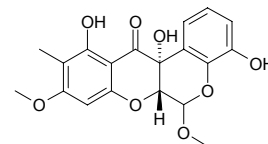
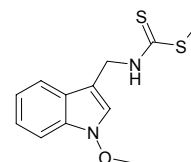
**13849 4-Methoxy-1,2-benzodioxole**

$C_8H_8O_3$ (152.15). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 1284.

**13850 6-O-(4-Methoxybenzoyl)-ajugol**

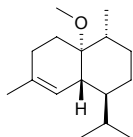
$C_{23}H_{30}O_{11}$ (482.49). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC_{50} = 13.8 μg/mL, control L-NMMA, IC_{50} = 27.4 μg/mL). Source: HE SE ZHONG HUA SHU *Tabebuia avellaneda* (inner bark). Ref: 4473.



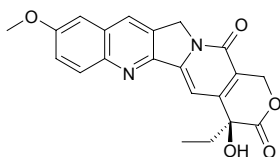
13851 3β-[(*m*-Methoxybenzoyl)oxyl]urs-12-en-28-oic acidC₃₉H₅₄O₅ (602.86). Source: *Morus* sp. Ref: 2513.**13852 *p*-Methoxybenzylacetone**[104-20-1] C₁₁H₁₄O₂ (178.23). bp 277°C. Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 6, 13.**13853 2-Methoxybenzyl-2,6-dimethoxybenzoate**C₁₇H₁₈O₅ (302.33). Source: YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 1281.**13854 3-(4-Methoxybenzyl)-6-hydroxy-5,7-dimethoxychroman-4-one**C₁₉H₂₀O₆ (344.37). Yellow oil, [α]_D²⁵ = -68.7° (c = 0.26, MeOH). Source: *Scilla nervosa* (bulb). Ref: 2381.**13855 3-(4-Methoxybenzyl)-8-hydroxy-5,7-dimethoxychroman-4-one**C₁₉H₂₀O₆ (344.37). Yellow oil, [α]_D²⁵ = -109.9° (c = 0.23, MeOH). Source: *Scilla nervosa* (bulb). Ref: 2381.**13856 3-(4-Methoxybenzylidene)-5,7-dihydroxy-6-methoxychroman-4-one**C₁₈H₁₆O₆ (328.32). Yellow gum. Source: *Scilla nervosa* (bulb). Ref: 2381.**13857 2-Methoxybenzyl-2,3,6-trimethoxybenzoate**C₁₈H₂₀O₆ (332.36). Source: YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 1281.**13858 5'-Methoxybilobetin**[77053-35-1] C₃₂H₂₂O₁₁ (582.53). Yellow crystals, mp 251°C. Source: BAI GUO *Ginkgo biloba*. Ref: 2.**13859 (3*S*)-Methoxy-1,7-bis(4-hydroxyphenyl)-6*E*-hepten-5-one**C₂₀H₂₂O₄ (326.4). Yellow amorphous solid, [α]_D²⁵ = +17.5° (c = 0.13, MeOH). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 5.2 μmol/L; HT1080, ED₅₀ = 10.1 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed; yield = 0.00012%). Ref: 3042.**13860 6-Methoxyboeravinone C**C₁₉H₁₈O₈ (374.35). White amorphous powder. Pharm: Antifungal inactive (*Candida albicans* DSY1024, 200 μg/mL). Source: ZI MO LI GEN *Mirabilis jalapa* (Plant cell culture). Ref: 3043.**13861 Methoxybrassinin**[105748-59-2] C₁₂H₁₄N₂OS₂ (266.39). Pharm: Antifungal. Source: YUN TAI ZI *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], OU ZHOU YOU CAI *Brassica napus*. Ref: 658.

13862 1-Methoxy-4-cadinene

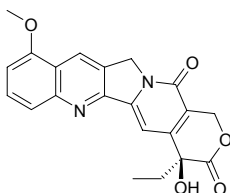
$C_{16}H_{28}O$ (236.40). Colorless oil, $[\alpha]_D^{25} = -65.2^\circ$ ($c = 0.11$, $CHCl_3$). Source: RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). Ref: 4279.

**13863 10-Methoxycamptothecin**

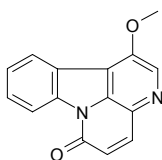
[19685-10-0] $C_{21}H_{18}N_2O_5$ (378.39). Yellow crystals (Me_2CO), mp 255–256°C (dec). Pharm: Antineoplastic (mus L_{1210} , 0.19mg/kg, biotic prolonged rate = 125%); antiviral (herpesvirus, 10 μ g/mL, InRt = 89%, 20 μ g/mL, InRt = 100%). Source: LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), SHE GEN CAO *Ophiorrhiza mungos*, XI SHU *Camptotheca acuminata*. Ref: 6, 658, 1521, 4527.

**13864 9-Methoxycamptothecin**

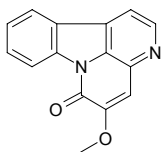
[39026-92-1] $C_{21}H_{18}N_2O_5$ (378.39). mp 254–255°C, mp 258–260°C. Pharm: Antineoplastic (mus P_{388} , 0.5mg/kg, biotic prolonged rate = 145%, cultured P_{388} , $ED_{50} = 0.0036\mu$ g/mL). Source: HAI SHI GOU YA HUA *Ervatamia heyneana*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), SHE GEN CAO *Ophiorrhiza mungos*, XI SHU *Camptotheca acuminata*. Ref: 5, 6, 658, 4527.

**13865 1-Methoxycanthin-6-one**

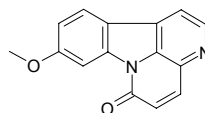
$C_{15}H_{10}N_2O_2$ (250.26). Pharm: Anti-HIV ($TI > 391$)^[4758]. Source: CHU BAI PI *Ailanthus altissima*, GAO CHU *Ailanthus excelsa*. Ref: 1521, 4758.

**13866 5-Methoxycanthin-6-one**

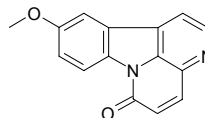
$C_{15}H_{10}N_2O_2$ (250.26). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000014%dw), *Eurycoma* sp. Ref: 4556, 4728.

**13867 9-Methoxycanthin-6-one**

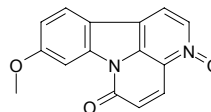
$C_{15}H_{10}N_2O_2$ (250.26). Pharm: Cytotoxic (*in vitro*, A549, $ED_{50} < 2.5\mu$ g/mL; MCF7, $ED_{50} = 4.5\mu$ g/mL; HIV, no significant effect)^[4728]; antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0012%dw), *Eurycoma harmandiana* (root). Ref: 4728, 5137.

**13868 10-Methoxycanthin-6-one**

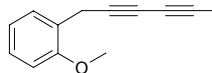
$C_{15}H_{10}N_2O_2$ (250.26). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.00001%dw), *Eurycoma* sp. Ref: 4556, 4728.

**13869 9-Methoxycanthin-6-one 3-N-oxide**

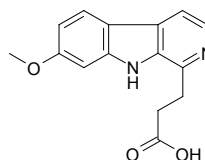
$C_{15}H_{10}N_2O_3$ (266.26). Pharm: Cytotoxic (*in vitro*, A549, $ED_{50} = 18.5\mu$ g/mL; MCF7, $ED_{50} = 18.9\mu$ g/mL; HIV, no significant effect)^[4728]; antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0001%dw), *Eurycoma* sp. Ref: 4556, 4728.

**13870 Methoxycapillen**

$C_{13}H_{12}O$ (184.24). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

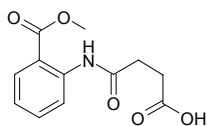
**13871 7-Methoxy-β-carboline-1-Propionic acid**

$C_{15}H_{14}N_2O_3$ (270.29). Pharm: Cytotoxic (*in vitro*, A549, $ED_{50} > 20\mu$ g/mL; MCF7, $ED_{50} > 20\mu$ g/mL; HIV, no significant effect)^[4728]; antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.0001%dw), *Eurycoma harmandiana* (root), *Eurycoma* sp. Ref: 4556, 4728, 5137.

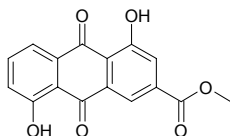


13872 4-[2-(Methoxycarbonyl)anilino]-4-oxobutanoic acid

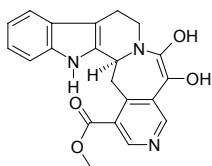
C₁₂H₁₃NO₅ (251.24). Amorphous powder. **Pharm:** Antioxidant (DPPH scavenger, 1μmol/L, ScRt = 13.4%; control 3-*t*-Butyl-4-hydroxyanisole, 1μmol/L, ScRt = 92.5%). **Source:** *Aconitum leave* (aerial parts). **Ref:** 5271.

**13873 3-Methoxycarbonyl-1,5-dihydroxyanthraquinone**

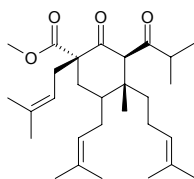
C₁₆H₁₀O₆ (298.25). Yellow needles (CH₂Cl₂-MeOH), mp 216–218°C. **Source:** HUANG QI II *Engelhardia roxburghiana* (root). **Ref:** 5059.

**13874 16-Methoxycarbonyl-18,19-dihydroxynaufoline**

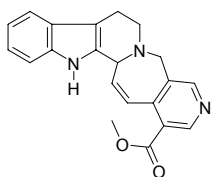
C₂₁H₁₉N₃O₄ (377.40). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial (*Leishmania* sp.); antifungal (*Aspergillus niger*). **Source:** KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178, 1521.

**13875 (2R,3R,4S,6R)-6-Methoxycarbonyl-3-methyl-4,6-di(3-methyl-2-butenyl)-2-(2-methyl-1-oxopropyl)-3-(4-methyl-3-pentenyl)cyclohexanone**

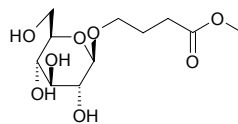
C₂₉H₄₆O₄ (458.69). Colorless viscous oil, [α]_D²⁶ = +95.5° (c = 1.1, CHCl₃). **Source:** GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts: yield = 0.00024%dw). **Ref:** 3032.

**13876 16-Methoxycarbonyl naufoline**

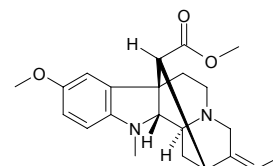
C₂₁H₁₉N₃O₂ (345.40). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial (*Leishmania* sp.); antifungal (*Aspergillus niger*). **Source:** KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**13877 3-(Methoxycarbonyl)propyl-β-D-glucopyranoside**

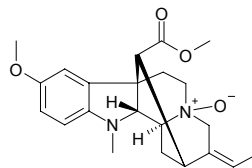
C₁₁H₂₀O₈ (280.28). Amorphous powder, [α]_D²⁴ = -19° (c = 0.4, MeOH). **Source:** SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 4177.

**13878 10-Methoxycathafoline**

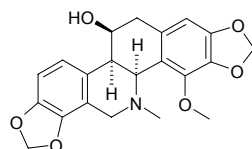
C₂₂H₂₈N₂O₃ (338.45). [α]_D = -57° (c = 0.08, CHCl₃). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla*. **Ref:** 2320.

**13879 10-Methoxycathafoline N(4)-oxide**

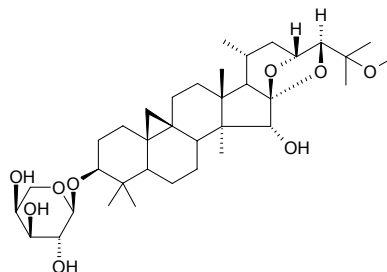
C₂₂H₂₈N₂O₄ (384.48). Light yellowish oil, [α]_D = -32° (c = 0.14, CHCl₃). **Source:** XIA YE JI GU CHANG SHAN *Alstonia angustifolia* (leaf). **Ref:** 3780.

**13880 Methoxychelidonine**

[26446-58-2] C₂₁H₂₁NO₆ (383.40). Stout prisms, mp 221°C, [α]_D = +115.48°. **Source:** BAI QU CAI *Chelidonium majus*. **Ref:** 6.

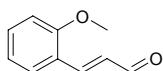
**13881 25-O-Methoxycimigenol 3-O-α-L-arabinopyranoside**

C₃₆H₅₈O₉ (634.86). **Pharm:** Cytotoxic (HSC-2 cells, IC₅₀ = 30μmol/L, control Etoposide, IC₅₀ = 24μmol/L; HGF cells, IC₅₀ = 54μmol/L). **Source:** ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). **Ref:** 4158.

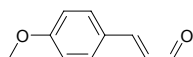


13882 2-Methoxycinnamaldehyde

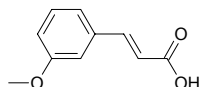
$C_{10}H_{10}O_2$ (162.19). **Pharm:** NF- κ B inhibitor (LPS-induced NF- κ B transcriptional activity, IC_{50} = 31 μ mol/L, positive control Caffeic acid phenethyl ester (CAPE), IC_{50} = 2 μ mol/L; NF- κ B is a transcription factor regulating expression of inflammatory and immune genes)^[5018]. **Source:** GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (stem cortex)^[5018], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (twig: content scope of 9 origins = 0.100%–0.175%, mean content = 0.142%)^[5508]. **Ref:** 5018, 5508.

**13883 p-Methoxycinnamaldehyde**

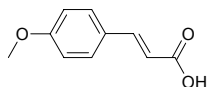
[1963-36-6] $C_{10}H_{10}O_2$ (162.19). Yellow needles (EtOH aq.), mp 58–59°C, bp 171°C/15mmHg; mp 134°C. **Pharm:** Herbicide, germination inhibitor of seed (*Abutilon avicennae*). **Source:** BA JIAO HUI XIANG *Illicium verum*, HUO XIANG *Agastache rugosus*, JIN QIAN PU *Acorus gramineus*, LUO LE *Ocimum basilicum*, RONG MAO DAI XING CAO *Sphaeranthus indicus*, SHUI HUI XIANG *Limnophila rugosa*, XIA YE QING HAO *Artemisia dracuncululus*. **Ref:** 2, 658.

**13884 m-Methoxycinnamic acid**

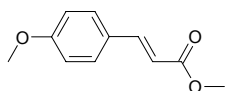
[6099-04-3] $C_{10}H_{10}O_3$ (178.19). **Source:** MU ZEI *Equisetum hiemale*. **Ref:** 2.

**13885 p-Methoxycinnamic acid**

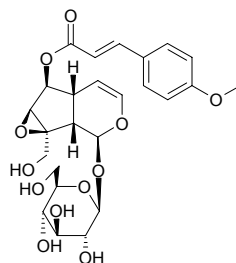
[830-09-1] $C_{10}H_{10}O_3$ (178.19). mp 170 (174)°C. **Pharm:** Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (66.4±2.6)%, p <0.001, control MK-801, 0.1 μ mol/L, cell viability = (31.8±7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7±1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1±5.6)%)^[3967]. **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root), MU ZEI *Equisetum hiemale*. **Ref:** 2, 3967.

**13886 (E)-p-Methoxycinnamic acid methyl ester**

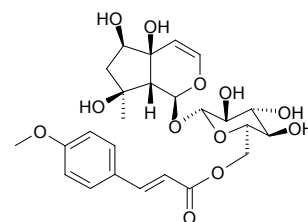
$C_{11}H_{12}O_3$ (192.22). **Pharm:** Neuroprotectant (primary cultures of rat cortical cells injured by glutamate, 0.1 μ mol/L, cell viability = (25.4±0.8)%, control MK-801, 0.1 μ mol/L, cell viability = (31.8±7.1)%, APV, 0.1 μ mol/L, cell viability = (5.7±1.9)%, XNQX, 0.1 μ mol/L, cell viability = (28.1±5.6)%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root). **Ref:** 3967.

**13887 6-p-Methoxycinnamoyl catalpol**

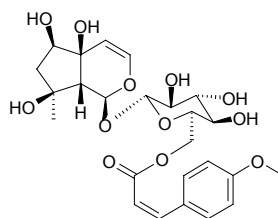
$C_{25}H_{30}O_{12}$ (522.51). **Source:** MI MENG HUA *Buddleja officinalis*. **Ref:** 1286.

**13888 6'-O-E-p-Methoxycinnamoylharpagide**

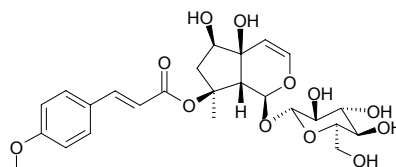
$C_{25}H_{32}O_{12}$ (524.53). Pale brown amorphous powder, $[\alpha]_D^{15}$ = -26.7° (c = 0.5, MeOH). **Pharm:** Neuroprotective (primary cultures of rat cortical cells injured by 50 μ mol/L glutamate, 0.1 μ mol/L, cell viability = 39.1%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.00003%). **Ref:** 4660.

**13889 6'-O-Z-p-Methoxycinnamoylharpagide**

$C_{25}H_{32}O_{12}$ (524.53). Pale brown amorphous powder, $[\alpha]_D^{15}$ = -29.09° (c = 0.5, MeOH). **Pharm:** Neuroprotective (primary cultures of rat cortical cells injured by 50 μ mol/L glutamate, 0.1 μ mol/L, cell viability = 33.3%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.00002%). **Ref:** 4660.

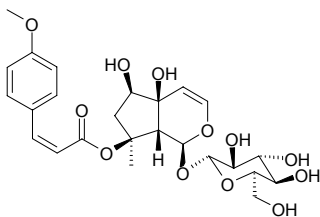
**13890 8-O-E-p-Methoxycinnamoylharpagide**

$C_{25}H_{32}O_{12}$ (524.53). Pale brown amorphous powder, $[\alpha]_D^{15}$ = -37.4° (c = 0.5, MeOH). **Pharm:** Neuroprotective (primary cultures of rat cortical cells injured by 50 μ mol/L glutamate, 0.1 μ mol/L, cell viability = 54.9%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.00060%). **Ref:** 4660.

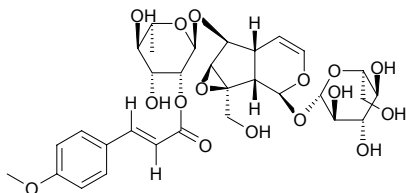


13891 8-O-Z-p-Methoxycinnamoylharpagide

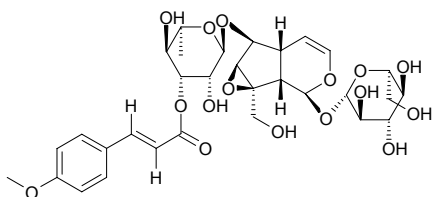
$C_{25}H_{32}O_{12}$ (524.53). Pale brown amorphous powder, $[\alpha]_D^{15} = -54.3^\circ$ ($c = 0.5$, MeOH). **Pharm:** Neuroprotective (primary cultures of rat cortical cells injured by $50\mu\text{mol/L}$ glutamate, $0.1\mu\text{mol/L}$, cell viability = 40.7%; control MK-801, cell viability = 31.8%; APV, cell viability = 5.7%; CNQX, cell viability = 28.1%). **Source:** BEI XUAN SHEN *Scrophularia buergeriana* (root: yield = 0.00042%). **Ref:** 4660.

**13892 6-O-α-L-(2''-O-trans-p-Methoxycinnamoyl)rhamnopyranosylcatalpol**

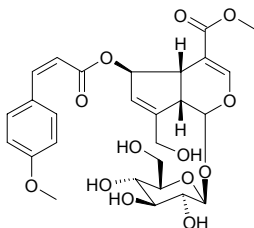
$C_{31}H_{40}O_{16}$ (668.65). **Source:** FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). **Ref:** 3954.

**13893 6-O-α-L-(3''-O-trans-p-Methoxycinnamoyl)rhamnopyranosylcatalpol**

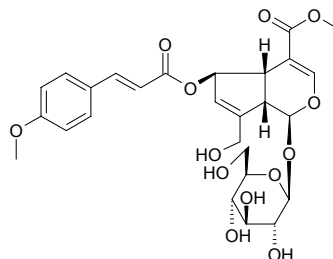
$C_{31}H_{40}O_{16}$ (668.65). **Source:** FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). **Ref:** 3954.

**13894 6-O-Z-p-Methoxycinnamoyl scandoside methyl ester**

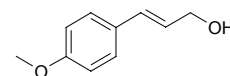
$C_{27}H_{32}O_{13}$ (564.55). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, induced by L-glutamate, $0.1\mu\text{mol/L}$, cell viability = $(28.8\pm 4.6)\%$, $p < 0.05$, $1.0\mu\text{mol/L}$, cell viability = $(54.6\pm 2.9)\%$, $p < 0.01$, $10\mu\text{mol/L}$, cell viability = $(23.7\pm 4.4)\%$, $p < 0.05$). **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00096%). **Ref:** 3027.

**13895 5-O-p-Methoxy cinnamoyl scandoside methyl ester**

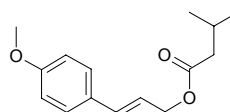
6-O-E-p-Methoxycinnamoyl scandoside methyl ester $C_{27}H_{32}O_{13}$ (564.55). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, induced by L-glutamate, $0.1\mu\text{mol/L}$, cell viability = $(65.4\pm 4.1)\%$, $p < 0.001$, $1.0\mu\text{mol/L}$, cell viability = $(71.8\pm 2.8)\%$, $p < 0.001$, $10\mu\text{mol/L}$, cell viability = $(52.8\pm 3.9)\%$, $p < 0.01$)^[3027]. **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00036%)^[3027]. **Ref:** 660, 3027.

**13896 trans-4-Methoxycinnamoyl alcohol**

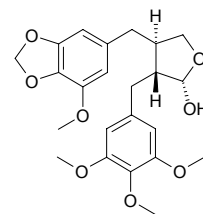
$C_{10}H_{12}O_2$ (164.21). **Source:** DA LIANG JIANG *Alpinia galanga*. **Ref:** 660, 1287.

**13897 4'-Methoxycinnamoyl isovalerate**

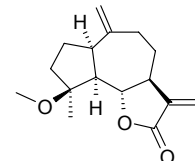
$C_{15}H_{20}O_3$ (248.32). Colorless oil. **Source:** FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). **Ref:** 3851.

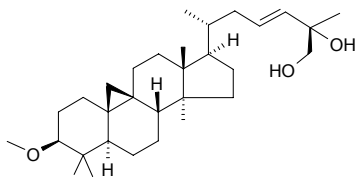
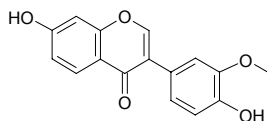
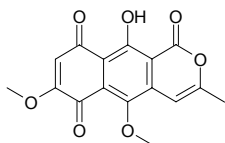
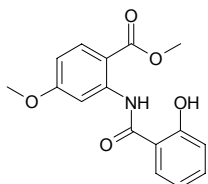
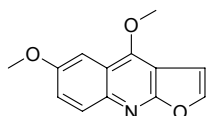
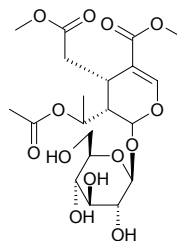
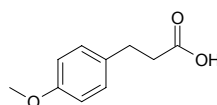
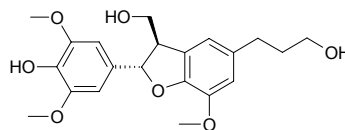
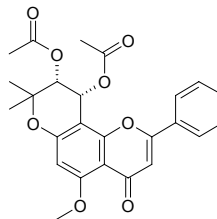
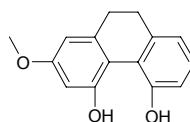
**13898 (8R,8'R,9'S)-5-Methoxyclusin**

$C_{23}H_{28}O_8$ (432.47). Pale yellow oil, $[\alpha]_D^{25} = -53.4^\circ$ ($c = 0.3$, CHCl_3). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $\text{IC}_{50} = 0.083\mu\text{mol/L}$; CYP2D6, $\text{IC}_{50} > 100\mu\text{mol/L}$; control Ketoconazole, CYP3A4, $\text{IC}_{50} = 0.72\mu\text{mol/L}$; control Quinidine, CYP2D6, $\text{IC}_{50} = 0.082\mu\text{mol/L}$). **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00013%dw). **Ref:** 4797.

**13899 4β-Methoxycostuslactone**

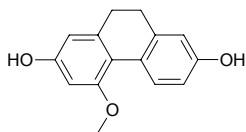
$C_{16}H_{22}O_3$ (262.35). **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. **Ref:** 1387.



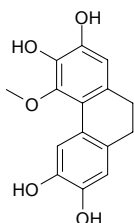
13900 3 β -Methoxy-9 β ,19-cyclolanost-23(E)-en-25,26-diolC₃₁H₅₂O₃ (472.76). [Source](#): AI YE *Artemisia argyi*. [Ref](#): 1288.**13901 3'-Methoxydaidzein**[21913-98-4] C₁₆H₁₂O₅ (284.27). mp 262°C. [Source](#): CHAO XIAN HUI *Maackia amurensis*, JIANG ZHEN XIANG *Dalbergia odorifera*. [Ref](#): 1289.**13902 5-Methoxy-3,4-dehydroxanthomegnin**C₁₆H₁₂O₇ (316.27). Red powder, mp 141~144°C, (toluene:EtOAc = 9:1).[Pharm](#): Cytotoxic (*in vitro*, McCoy cells, CI₅₀ = 35.8 μg/mL, control *cis*-Platin CI₅₀ = 41.9 μg/mL). [Source](#): *Paepalanthus latipes*. [Ref](#): 2549.**13903 4-Methoxydianthramide B**C₁₆H₁₅NO₅ (301.3). White powder. [Pharm](#): Cytotoxic (*in vitro*, HepG2, IC₅₀ = 4.08 μg/mL; Hep3B, IC₅₀ = 16.02 μg/mL; MCF7, IC₅₀ > 20 μg/mL; A549, IC₅₀ > 20 μg/mL; MDA-MB-231, IC₅₀ > 20 μg/mL; control Doxorubicin, HepG2, IC₅₀ = 0.19 μg/mL; Hep3B, IC₅₀ = 0.31 μg/mL; MCF7, IC₅₀ = 1.21 μg/mL; A549, IC₅₀ = 0.19 μg/mL; MDA-MB-231, IC₅₀ = 0.73 μg/mL). [Source](#): QU MAI *Dianthus superbus* (aerial parts: yield = 0.0017%dw). [Ref](#): 4765.**13904 6-Methoxy dictamnine**[2221-41-2] C₁₃H₁₁NO₃ (229.24). mp 134~135°C. [Source](#): CHOU CAO *Ruta graveolens*, YU JU *Ptelea trifoliata*. [Ref](#): 6.**13905 7-Methoxydideroside**Dideroside methyl ester C₂₀H₃₀O₁₃ (478.45). Amorphous powder, [α]_D²⁵ = -36.0° (c = 1.4, MeOH). [Pharm](#): Antitrypanosomal (trypomastigotes of *Trypanosoma cruzi*, *in vitro*, IC₅₀ = 59.0 μg/mL, control Gentian violet, IC₅₀ = 7.5 μg/mL). [Source](#): *Cabycophyllum spruceanum*. [Ref](#): 3439.**13906 p-Methoxydihydrocinnamic acid**[25173-37-9] C₁₀H₁₂O₃ (180.21). mp 104~105°C. [Source](#): CHEN XIANG *Aquilaria agallocha*. [Ref](#): 6.**13907 5-Methoxy-trans-dihydrodehydroconiferyl alcohol**C₂₁H₂₆O₇ (390.44). [α]_D²⁰ = +4.7° (c = 0.34, MeOH). [Source](#): YUE NAN LIE LAN *Bursera tonkinensis* (root). [Ref](#): 5336.**13908 5-Methoxy-(3'',4''-dihydro-3'',4''-diacetoxy)-2'',2''-dimethylpyrano-(7,8:5'',6'')-flavone**C₂₅H₂₄O₈ (452.47). Yellowish gum, [α]_D = -26.0° (c = 0.1, MeOH). [Source](#): SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00082%). [Ref](#): 4721, 4721b.**13909 2-Methoxy-9,10-dihydrophenanthrene-4,5-diol**C₁₅H₁₄O₃ (242.28). White powder. [Pharm](#): Antiallergic β-Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (-16.3 ± 3.8) μmol/L; 300 μmol/L control Ketotifen fumarate, InRt = (72.5 ± 0.9) μmol/L, p < 0.01). [Source](#): SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). [Ref](#): 5022.

13910 4-Methoxy-9,10-dihydrophenanthrene-2,7-diol

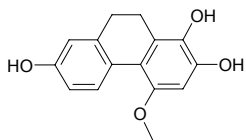
$C_{15}H_{14}O_3$ (242.28). Colorless needles. **Pharm:** Antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (80.4 \pm 3.3)\mu\text{mol/L}$, $p < 0.01$; $300\mu\text{mol/L}$ control Ketotifen fumarate, $\text{InRt} = (72.5 \pm 0.9)\mu\text{mol/L}$, $p < 0.01$). **Source:** SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). **Ref:** 5022.

**13911 4-Methoxy-9,10-dihydrophenanthrene-2,3,6,7-tetrol**

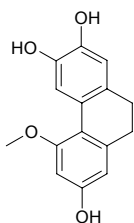
$C_{15}H_{14}O_5$ (274.28). Brown oil. **Source:** QIAO SHI DOU LAN *Bulbophyllum vaginatum*. **Ref:** 1870.

**13912 4-Methoxy-9,10-dihydrophenanthrene-1,2,7-triol**

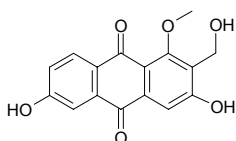
$C_{15}H_{14}O_4$ (258.28). Pale yellow amorphous powder. **Source:** LAN YU BAI JI *Bletilla formosana* (whole herb). **Ref:** 4500.

**13913 4-Methoxy-9,10-dihydrophenanthrene-2,3,7-triol**

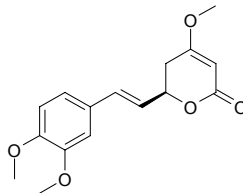
$C_{15}H_{14}O_4$ (258.28). Brown gum. **Source:** QIAO SHI DOU LAN *Bulbophyllum vaginatum*. **Ref:** 1870.

**13914 1-Methoxy-3,6-dihydroxy-2-hydroxymethyl-9,10-anthraquinone**

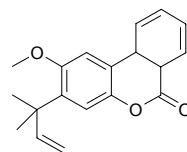
$C_{16}H_{12}O_6$ (300.27). Orange powder. **Source:** MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). **Ref:** 4219.

**13915 11-Methoxy-5,6-dihydroyangonin**

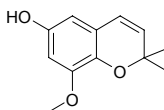
$C_{16}H_{18}O_5$ (290.32). Yellow semi-solid (0.01%), $[\alpha]_D^{25} = +70.0^\circ$ ($c = 0.025$, CHCl_3). **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 1995.

**13916 Methoxy-3-(1,1'-dimethylallyl)-6a,10a-dihydrobenzo(1,2-c)chroman-6-one**

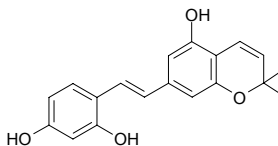
$C_{19}H_{20}O_3$ (296.37). mp $183\text{--}184^\circ\text{C}$, $[\alpha]_D^{18} = +58.0^\circ$ ($c = 0.5$, CHCl_3). **Pharm:** MAO-A inhibitor (rat brain mitochondrial enzyme, $\text{IC}_{50} > 100\mu\text{g/mol/L}$); MAO-B inhibitor (rat brain mitochondrial enzyme, $\text{IC}_{50} = 2.9\mu\text{g/mol/L}$). **Source:** HUANG LONG DAN *Gentiana lutea*. **Ref:** 3838.

**13917 8-Methoxy-2,2-dimethyl-2H-chromen-6-ol**

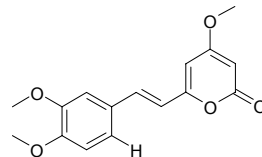
$C_{12}H_{14}O_3$ (206.24). **Source:** *Plagiochila rutilans*. **Ref:** 5144.

**13918 4-Methoxy-2,2-dimethyl-6-(2-(2,4-dihydroxy)phenyl-trans-ethenyl)chromene**

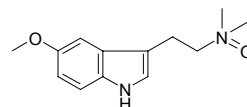
$C_{19}H_{18}O_4$ (310.35). **Pharm:** Antimalarial (*Plasmodium falciparum*, $\text{EC}_{50} = 9.4\mu\text{g/mL}$, control Chloroquine diphosphate, $\text{EC}_{50} = 0.116\mu\text{g/mL}$, $\text{EC}_{50} = 3.1\mu\text{mol/L}$). **Source:** QUAN YUAN GUI MU *Artocarpus integra* (aerial parts). **Ref:** 3963.

**13919 4-Methoxy-6-(11,12-dimethylstyryl)-2-pyrone**

$C_{16}H_{16}O_5$ (288.30). mp $147\text{--}149^\circ\text{C}$ (EtOAc). **Source:** SHA DI YUAN ZHI *Polygala sabulosa*. **Ref:** 5110.

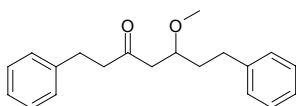
**13920 5-Methoxy-N,N-dimethyl-tryptamine N_b-oxide**

$C_{13}H_{18}N_2O_2$ (234.30). **Source:** HONG MU JI CAO *Desmodium gangeticum*, PAI QIAN CAO *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*]. **Ref:** 6.

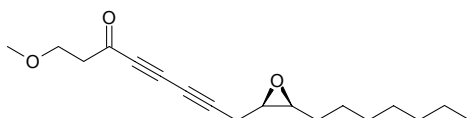


13921 5-Methoxy-1,7-diphenyl-3-heptanone

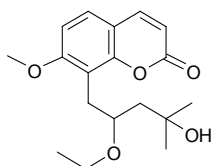
$C_{20}H_{24}O_2$ (296.41). Source: GAO LIANG JIANG *Alpinia officinarum*.
Ref: 1403.

**13922 1-Methoxy-(9R,10S)-epoxyheptadecan-4,6-diyne-3-one**

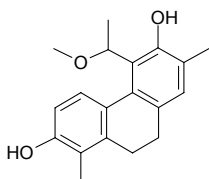
$C_{18}H_{26}O_3$ (290.41). Light yellow oil, $[\alpha]_D^{25} = -75.5^\circ$ ($c = 0.5$, $CHCl_3$). Pharm:
DGAT inhibitor ($IC_{50} = 32\mu g/mL$, control Evocarpine, $IC_{50} = 8.1\mu g/mL$).
Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 4943.

**13923 7-Methoxy-8-(2'-ethoxy-3'-hydroxy-3'-methylbutyl)coumarin**

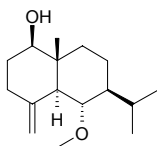
$C_{17}H_{22}O_5$ (306.36). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var.
exotica. Ref: 1292.

**13924 5-(1-Methoxyethyl)-2,6-dihydroxy-1,7-dimethyl-9,10-dihydrophenanthrene**

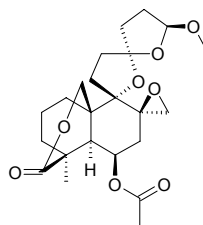
$C_{19}H_{22}O_3$ (298.39). Source: DENG XIN CAO *Juncus effusus*. Ref: 1516.

**13925 6α-Methoxyeudesm-4(15)-en-1β-ol**

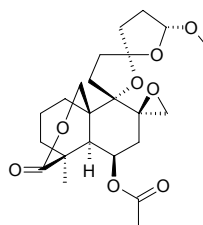
$C_{16}H_{28}O_2$ (252.40). Source: YI NIAN PENG *Erigeron annuus* (aerial parts),
SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

**13926 15β-Methoxyfaciculatin**

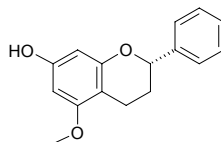
$C_{23}H_{32}O_8$ (436.51). Colorless plate, mp 230–232°C, $[\alpha]_D^{21} = -16.3^\circ$ ($c = 0.82$,
 $CHCl_3$). Source: CU SHENG SHAN XIANG *Hyptis fasciculata* (aerial parts).
Ref: 4539.

**13927 15α-Methoxyfaciculatin B**

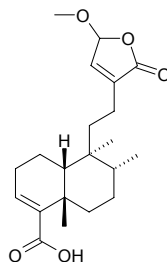
$C_{23}H_{32}O_8$ (436.51). Colorless plate, mp 238–240°C, $[\alpha]_D^{21} = +72.9^\circ$ ($c = 1.31$,
 $CHCl_3$). Source: CU SHENG SHAN XIANG *Hyptis fasciculata* (aerial parts).
Ref: 4539.

**13928 (2S)-5-Methoxy flavan-7-ol**

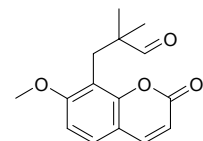
$C_{16}H_{16}O_3$ (256.30). Source: JIAN YE LONG XUE SHU *Dracaena*
cochinchinensis. Ref: 1518.

**13929 (+)-15-Methoxyfloridolide A**

$C_{21}H_{30}O_5$ (362.47). $[\alpha]_D = +50.6^\circ$ ($c = 1.35$, $CHCl_3$). Source: GE LUN BI YA
BA DOU *Croton schiedeanus* (aerial parts). Ref: 4447.

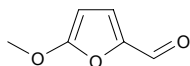
**13930 7-Methoxy-8-(2'-formyl-2'-methylpropyl) coumarin**

$C_{15}H_{16}O_4$ (260.29). Source: JIU LI XIANG *Murraya paniculata* [Syn.
Chalcas paniculata]. Ref: 11, 1295.

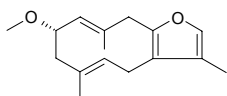


13931 5-Methoxyfuraldehyde

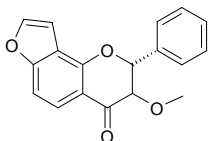
2-Formyl-5-methoxyfuran C₆H₆O₃ (126.11). Source: DANG SHEN
Condonopsis pilosula, ZANG HONG HUA *Crocus sativus* (stigma: yield =
0.00027%dw). Ref: 2, 4653.

**13932 8α-Methoxyfuranodiene**

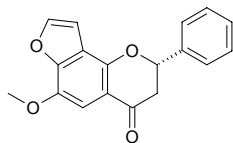
C₁₈H₂₂O₂ (246.35). Source: MO YAO *Commiphora myrrha* [Syn.
Commiphora molmol]. Ref: 1293.

**13933 3-Methoxy-(2'',3'':7,8)-furanoflavanone**

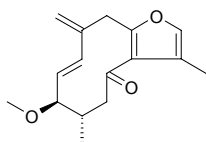
C₁₈H₁₄O₄ (294.31). Colorless amorphous powder. Source: *Lonchocarpus*
latifolius (root). Ref: 5108.

**13934 (-)-(2S)-6-Methoxy-[2'',3'':7,8]-furanoflavanone**

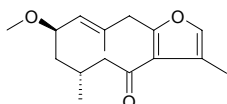
C₁₈H₁₄O₄ (294.31). Colorless needles, mp 190~192°C, [α]_D²⁸ = -55.8° (c = 0.1,
MeOH). Source: HONG E JI XUE TENG *Milletia erythrocalyx*. Ref: 1937.

**13935 rel-3R-Methoxy-4S-furanogermacra-1E,10(15)-dien-6-one**

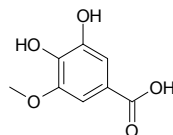
C₁₆H₂₀O₃ (260.34). Colorless oil, [α]_D = 74.4° (c = 0.80, CHCl₃). Pharm:
Cytotoxic inactive (*in vitro*, MCF7). Source: MO YAO *Commiphora myrrha*
[Syn. *Commiphora molmol*]. Ref: 3093.

**13936 rel-2R-Methoxy-4R-furanogermacra-1(10)E-en-6-one**

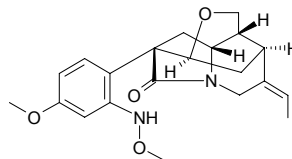
C₁₆H₂₂O₃ (262.35). Crystals (CHCl₃), [α]_D = -174.0° (c = 1.0, CHCl₃). Pharm:
Cytotoxic inactive (*in vitro*, MCF7). Source: MO YAO *Commiphora myrrha*
[Syn. *Commiphora molmol*]. Ref: 3093.

**13937 3-Methoxygallic acid**

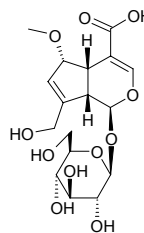
[3934-84-7] C₈H₈O₅ (184.15). mp 220(131~132)°C. Source: SHUI JIE GU
DAN *Epilobium hirsutum*. Ref: 6.

**13938 11-Methoxygelsemamide**

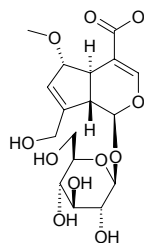
[122297-35-2] C₂₁H₂₆N₂O₄ (370.45). mp 140°C, [α]_D = +215.5°. Source: GOU
WEN *Gelsemium elegans*. Ref: 14.

**13939 6-Methoxygeniposidic acid**

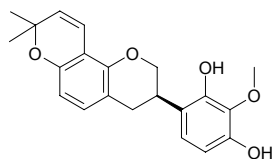
C₁₇H₂₄O₁₁ (404.37). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 1364.

**13940 6-Methoxyginiposidic acid**

C₁₇H₂₄O₁₁ (404.37). White powder. Source: QIAN CAO GEN *Rubia*
cordifolia. Ref: 8.

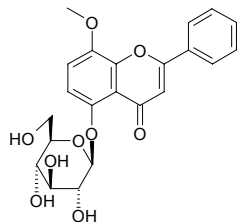
**13941 3'-Methoxyglabridin**

[74046-05-2] C₂₁H₂₂O₅ (354.41). mp 104~105°C. Pharm: Antibacterial
(*Staphylococcus aureus* ATCC13709, MIC = 50µg/mL). Source: OU YA
GAN CAO *Glycyrrhiza glabra* var. *typica*, GAN CAO *Glycyrrhiza*
uralensis. Ref: 2, 658.

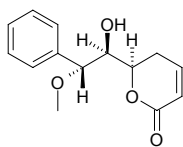


13942 8-Methoxy-5-O-glucoside flavone

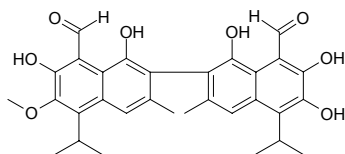
$C_{22}H_{22}O_9$ (430.42). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**13943 (6R,7R,8R)-8-Methoxygoniodiol**

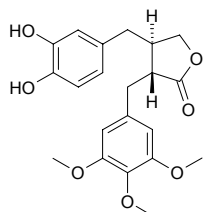
6*R*-(7*R*-Hydroxy-8*R*-methoxy-8-phenyl)-5,6-dihydro-2-pyrone $C_{14}H_{16}O_4$ (248.28). Colorless prism crystals, mp 99~101°C, $[\alpha]_D^{25} = +24.2^\circ$ ($c = 0.68$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, NUGC, $IC_{50} = 168\mu g/mL$; HONE-1, $IC_{50} = 240\mu g/mL$; control Actinomycin, NUGC, $IC_{50} = 6.61\mu g/mL$; HONE-1, $IC_{50} = 4.53\mu g/mL$)^[4686]; cytotoxic (HepG2, $IC_{50} = 4.63\mu g/mL$, control Doxorubicin, $IC_{50} = 0.38\mu g/mL$; Hep3B, $IC_{50} = 6.15\mu g/mL$, Doxorubicin, $IC_{50} = 0.36\mu g/mL$; MDA-MB-231, inactive; MCF7, inactive)^[5056]. Source: TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf: yield = 0.00009%fw; stem: yield = 0.00040%fw). Ref: 4686, 5056.

**13944 6-Methoxygossypol**

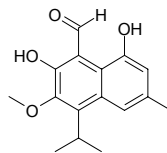
$C_{31}H_{32}O_8$ (532.60). mp 146~149°C. Source: MIAN HUA GEN *Gossypium herbaceum*, MIAN ZI YOU *Gossypium herbaceum*. Ref: 6, 1213.

**13945 (2R,3R)-5'-Methoxyguayarol**

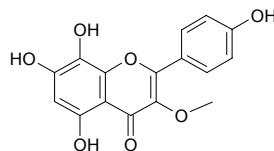
(2*R*,3*R*)-5'-Methoxyguayarol [(2*R*,3*R*)-3-(3,4-dihydroxybenzyl)-2-(3,4,5-trimethoxybenzyl)-butyrolactone] $C_{21}H_{24}O_7$ (388.42). Pale yellow solid, $[\alpha]_D^{20} = -63.8^\circ$ ($c = 0.5$, $CHCl_3$). Source: LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). Ref: 5030.

**13946 6-Methoxyhemigossypol**

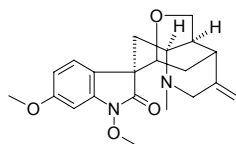
[50399-95-6] $C_{16}H_{18}O_4$ (274.32). Source: MIAN HUA GEN *Gossypium herbaceum*. Ref: 6.

**13947 3-Methoxyherbacetin**

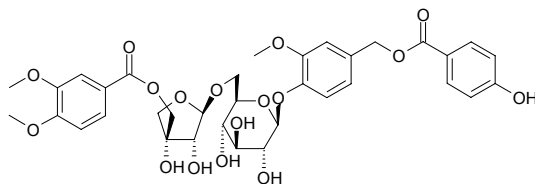
$C_{16}H_{12}O_7$ (316.27). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**13948 11-Methoxyhumantenine**

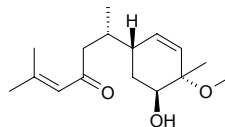
$C_{22}H_{28}N_2O_4$ (384.48). Powder, $[\alpha]_D = -146.5^\circ$. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**13949 2-Methoxy-4-[(4-hydroxybenzoyl)phenol] 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**

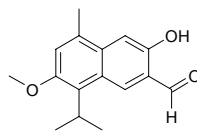
$C_{35}H_{40}O_{17}$ (732.70). Amorphous powder, $[\alpha]_D^{22} = -61^\circ$ ($c = 0.79$, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**13950 4-Methoxy-5-hydroxybisabola-2,10-diene-9-one**

$C_{16}H_{26}O_3$ (266.38). Source: JIANG HUANG *Curcuma longa*. Ref: 1405.

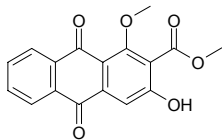
**13951 3-Methoxy-7-hydroxcadalenal**

$C_{16}H_{18}O_3$ (258.32). mp 137~139°C. Source: LANG YU PI *Ulmus parvifolia*. Ref: 6.

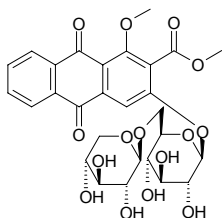


13952 1-Methoxy-3-hydroxy-2-carbomethoxy-9,10-anthraquinone

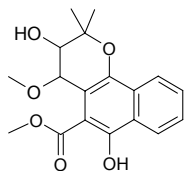
$C_{17}H_{12}O_6$ (312.28). Yellow powder. Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). Ref: 4219.

**13953 1-Methoxy-3-hydroxy-2-carbomethoxy-9,10-anthraquinone 3-O-β-primeveroside**

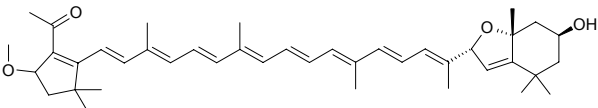
$C_{28}H_{30}O_{15}$ (606.54). Orange powder, $[\alpha]_D^{23} = -78.7^\circ$ ($c = 0.13$, MeOH). Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (stem and leaf). Ref: 4219.

**13954 1'-Methoxy-2'-hydroxydihydromollugin**

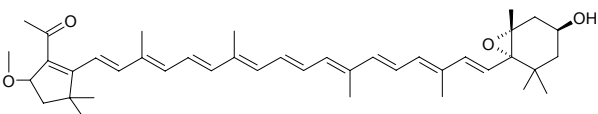
$C_{18}H_{20}O_6$ (332.36). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 1361.

**13955 3-Methoxy-3'-hydroxy-5',8'-epoxy-5',8'-dihydro-5,6-seco-4,6-cyclo-β-β-caroten-5-one**

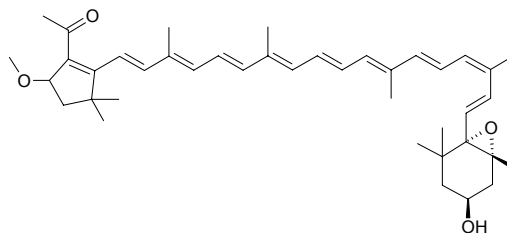
$C_{41}H_{56}O_4$ (612.90). Red amorphous powder. Source: HAI TONG *Pittosporum tobira* (seed). Ref: 4108.

**13956 (all-E)-3-Methoxy-3'-hydroxy-5',6'-epoxy-5',6'-dihydro-5,6-seco-4,6-cyclo-β-β-caroten-5-one**

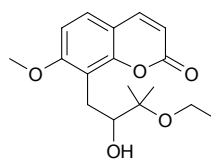
$C_{41}H_{56}O_4$ (612.90). Red amorphous powder. Source: HAI TONG *Pittosporum tobira* (seed). Ref: 4108.

**13957 (9'Z)-3-Methoxy-3'-hydroxy-5',6'-epoxy-5',6'-dihydro-5,6-seco-4,6-cyclo-β-β-caroten-5-one**

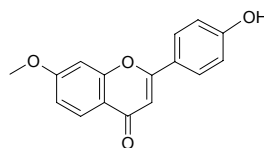
$C_{41}H_{56}O_4$ (612.90). Red amorphous powder. Source: HAI TONG *Pittosporum tobira* (seed). Ref: 4108.

**13958 7-Methoxy-8-(2'-hydroxy-3'-ethoxy-3'-methylbutyl)coumarin**

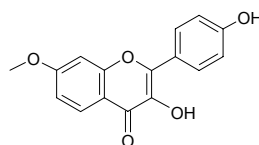
$C_{17}H_{22}O_5$ (306.36). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 1294.

**13959 7-Methoxy-4'-hydroxyflavone**

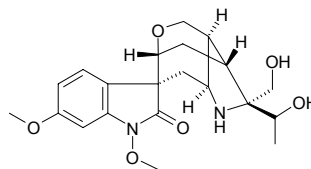
$C_{16}H_{12}O_4$ (268.27). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 1330.

**13960 7-Methoxy-4'-hydroxyflavonol**

$C_{16}H_{12}O_5$ (284.27). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*. Ref: 1330.

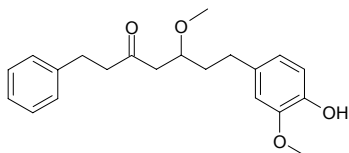
**13961 11-Methoxy-19-(R)-hydroxygelsegine**

$C_{21}H_{28}N_2O_6$ (404.47). mp 234–236°C, $[\alpha]_D = -110^\circ$. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

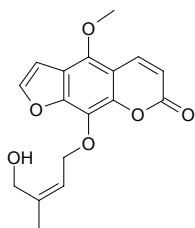


13962 5-methoxy-7-(4''-hydroxy-3''-methoxy phenyl)-1-phenyl-3-heptanone

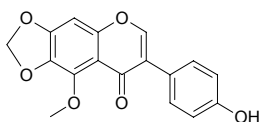
[83161-95-9] C₂₁H₂₆O₄ (328.41). Colorless oleaginous liquid, $[\alpha]_D^{20} = -11.6^\circ$ ($c = 0.43$, CHCl₃). **Pharm:** Anti-inflammatory; prostaglandin biosynthesis inhibitor (IC₅₀ = 2.3 μmol/L, IC₅₀ of indometacin control = 4.9 μmol/L). **Source:** GAO LIANG JIANG *Alpinia officinarum*. **Ref:** 435, 1814.

**13963 Methoxy-8-(3''-hydroxymethyl-but-2-enyloxy)-psoralen**

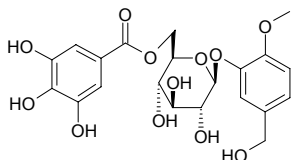
5-Methoxy-8-(3''-hydroxymethyl-but-2-enyloxy)-psoralen C₁₇H₁₆O₆ (316.31). Colorless amorphous solid. **Source:** SI JI XIANG ROU GUO *Casimiroa tetrameria* (leaf). **Ref:** 5262.

**13964 5-Methoxy-4'-hydroxy-6,7-methylenedioxyisoflavone**

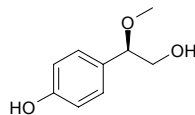
C₁₇H₁₂O₆ (312.28). **Source:** JUAN QIAO YUAN WEI *Iris potaninii* (underground part). **Ref:** 4235.

**13965 2-Methoxy-5-hydroxymethyl-phenyl-1-O-(6''-galloyl)-β-D-glucopyranoside**

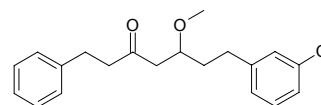
C₂₁H₂₄O₁₂ (468.42). Yellow powder, mp 125°C (dec), $[\alpha]_D^{25} = +14^\circ$ ($c = 0.10$, MeOH). **Pharm:** Antifungal (*Candida albicans* ATCC2091, MIC = 25 μg/mL, control Amphotericin B, MIC = 1 μg/mL; *Candida albicans* 32, MIC = 100 μg/mL, Amphotericin B, MIC = 4 μg/mL; *Candida albicans* 19, MIC = 50 μg/mL, Amphotericin B, MIC = 2 μg/mL); cytotoxic inactive (MIC > 200 μg/mL); antibacterial inactive. **Source:** *Baseonema acuminatum* (leaf). **Ref:** 5021.

**13966 2-Methoxy-2-(4'-hydroxyphenyl)ethanol**

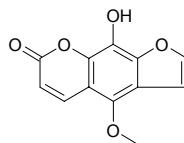
C₉H₁₂O₃ (168.19). Amorphous powder, $[\alpha]_D^{21} = -15^\circ$ ($c = 0.2$, MeOH). **Source:** GE LU ZI *Carum carvi*. **Ref:** 1926.

**13967 5-Methoxy-7-(4''-hydroxyphenyl)-1-phenyl-3-heptanone**

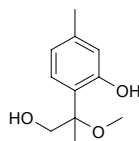
C₂₁H₂₆O₃ (326.44). **Source:** GAO LIANG JIANG *Alpinia officinarum*. **Ref:** 1403.

**13968 5-Methoxy-8-hydroxy-psoralen**

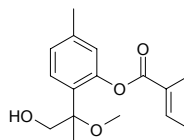
C₁₂H₈O₅ (232.19). **Source:** HANG BAI ZHI *Angelica taiwaniana*. **Ref:** 2, 660.

**13969 8-Methoxy-9-hydroxythymol**

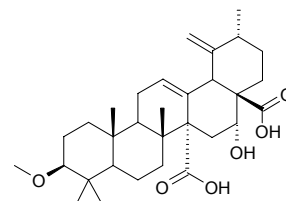
C₁₁H₁₆O₃ (196.25). $[\alpha]_D^{24} = 0^\circ$ ($c = 1.71$, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.

**13970 8-Methoxy-9-hydroxythymol 3-O-tiglate**

C₁₆H₂₂O₄ (278.35). $[\alpha]_D^{20} = 0^\circ$ ($c = 1.1$, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.

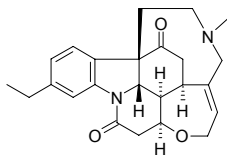
**13971 3β-Methoxy-16α-hydroxyursa-12,19(29)-dien-27,28-dioic acid**

C₃₁H₄₆O₆ (514.71). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

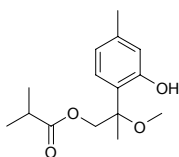


13972 3-Methoxycajine

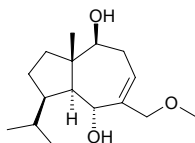
$C_{23}H_{26}N_2O_4$ (394.47). Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2.

**13973 8-Methoxy-9-O-isobutyrylthymol**

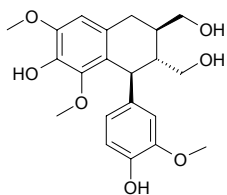
$C_{15}H_{22}O_4$ (266.34). $[\alpha]_D^{20} = 0^\circ$ ($c = 1.1$, $CHCl_3$). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**13974 15-Methoxysodauc-3-ene-1 β ,5 α -diol**

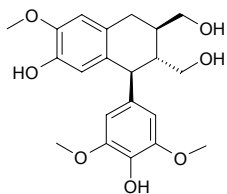
$C_{16}H_{28}O_3$ (268.40). Colorless amorphous solid, $[\alpha]_D^{27} = -57.2^\circ$ ($c = 0.3$, $CHCl_3$). Source: YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

**13975 (-)-8-Methoxysolariciresinol**

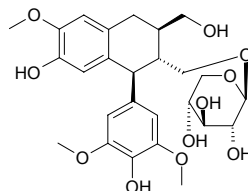
$C_{21}H_{26}O_7$ (390.44). Pharm: Antioxidant (DPPH scavenger, for 40 μ mol/L DPPH radical, $SC_{50} = 15 \mu$ mol/L). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**13976 (-)-5'-Methoxysolariciresinol**

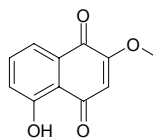
$C_{21}H_{26}O_7$ (390.44). White filariform solid, mp 129~130°C. Source: DIAN BAI ZHU SHU *Gaultheria yunnanensis*. Ref: 815.

**13977 (-)-5'-Methoxysolariciresinol-2 α -O- β -D-xylopyranoside (D₂)**

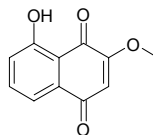
$C_{26}H_{34}O_{11}$ (522.55). White powder, mp 203~204°C. Source: BAI ZHU SHU *Gaultheria leucocarpa* var. *cumingiana* (root: content = 0.014%)^[5508], DIAN BAI ZHU SHU *Gaultheria yunnanensis* (root: content scope of 3 origins = 0.019%~0.065%, mean content = 0.042%)^[5508], FANG XIANG BAI ZHU *Gaultheria fragrantissima* (root: content = 0.020%)^[5508], SI LIE BAI ZHU *Gaultheria tetramera* (root: content = 0.023%)^[5508], WEI YE BAI ZHU *Gaultheria griffithiana* (root: content = 0.023%)^[5508]. Ref: 664, 5508.

**13978 2-Methoxyjuglone**

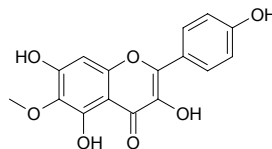
$C_{11}H_8O_4$ (204.18). Source: HUANG QI II *Engelhardia roxburghiana* (root). Ref: 5059.

**13979 3-Methoxyjuglone**

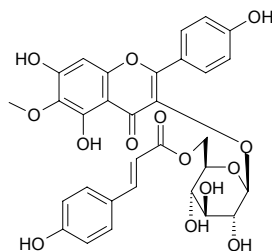
$C_{11}H_8O_4$ (204.18). Pharm: Antitubercular (*Mycobacterium tuberculosis* 90-221387, MIC = 6.25 μ g/mL; *Mycobacterium tuberculosis* H37Rv, MIC = 4.0 μ g/mL). Source: HUANG QI II *Engelhardia roxburghiana* (root). Ref: 5059.

**13980 6-Methoxykaempferol**

$C_{16}H_{12}O_7$ (316.27). Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.

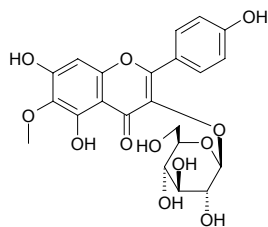
**13981 6-Methoxykaempferol-3-O- β -D-6''(p-coumaroyl)glucopyranoside**

$C_{31}H_{28}O_{14}$ (624.56). Source: *Paepalanthus polyanthus*, *Paepalanthus hilairei*, *Paepalanthus robustus*, *Paepalanthus ramosus*, *Paepalanthus denudatus*. Ref: 2291.

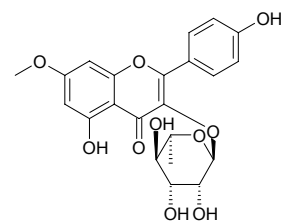


13982 6-Methoxykaempferol 3-O-glycoside

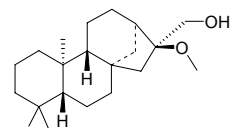
$C_{22}H_{22}O_{12}$ (478.41). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**13983 7-Methoxykaempferol 3-O- α -L-rhamnopyranoside**

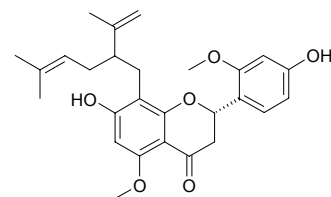
$C_{22}H_{22}O_{10}$ (446.41). Source: MENG GU FENG MAO JU *Saussurea mongolica*. Ref: 4958.

**13984 ent-16 α -Methoxy-kauran-17-ol**

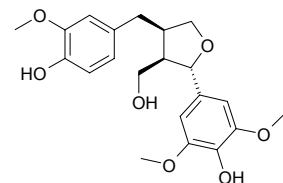
$C_{21}H_{36}O_2$ (320.52). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 1396, 2182.

**13985 2'-Methoxykurarinone**

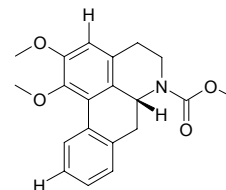
$C_{27}H_{32}O_6$ (452.55). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 4430.

**13986 5'-Methoxylaricresinol**

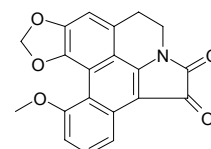
$C_{21}H_{26}O_7$ (390.44). Pharm: Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (63.3 \pm 4.0)%, IC₅₀ = 78 μ mol/L, control L-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 cells, 100 μ mol/L, InRt = (15.4 \pm 1.7)%, p < 0.01). Source: XIAO HONG SHEN *Rubia yunnanensis* (root). Ref: 4347.

**13987 N-Methoxycarbonyl-nornuciferine**

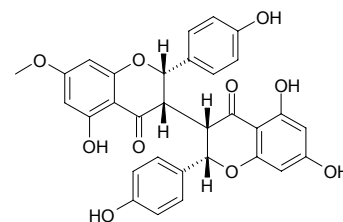
$C_{20}H_{21}NO_4$ (339.39). White amorphous powder, $[\alpha]_D^{25} = +165^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g: 0.1 U/mL thrombin-induced, AggRt = (88.7 \pm 0.6)%, p < 0.001; 10 μ mol/L AA-induced, AggRt = (58.3 \pm 6.1)%, p < 0.001; 10 μ mol/L collagen-induced, AggRt = (56.5 \pm 13.9)%, p < 0.05; 2 ng/mL PAF-induced, AggRt = (83.8 \pm 2.5)%, p < 0.05). Source: NIAN ZHI LUO LIN *Rollinia mucosa* (stem). Ref: 5143.

**13988 11-Methoxylettowianthine**

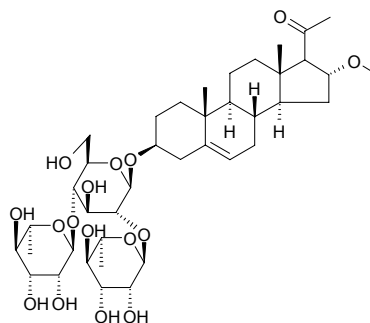
$C_{20}H_{13}NO_5$ (347.33). Dark red amorphous solid. Source: *Lettowianthus stellatus* (root cortex). Ref: 3944.

**13989 7-Methoxylneochaejasmin A**

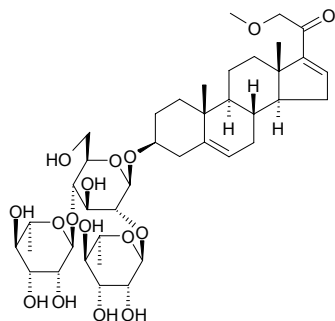
$C_{31}H_{24}O_{10}$ (556.53). Pale yellow amorphous powder, $[\alpha]_D^{26} = +153.2^\circ$ ($c = 0.3$, MeOH). Source: LANG DU *Stellera chamaejasme*. Ref: 4159.

**13990 16 α -Methoxyl-3 β -[(O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]pregn-5-en-20-one**

$C_{40}H_{64}O_{16}$ (800.95). Amorphous powder, $[\alpha]_D^{24} = -47.8^\circ$ ($c = 0.2$, pyridine). Pharm: Antifungal (plant pathogenic fungus *Pyricularia oryzae*, MMDC = 250 μ mol/L); osteoblastic proliferation stimulator (UMR106 cell line, 1 μ mol/L, increase in cell proliferation = 16.7%, 10 μ mol/L, 4.4%). Source: FU ZHOU SHU YU *Dioscorea futschauensis* (rhizome). Ref: 4381.

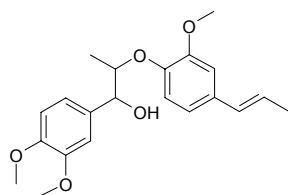


13991 21-Methoxyl-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]pregn-5,16-en-20-one
 C₄₀H₆₂O₁₆ (798.93). Amorphous powder, $[\alpha]_D^{24} = -40.5^\circ$ ($c = 0.2$, pyridine).
Pharm: Antifungal (plant pathogenic fungus *Pyricularia oryzae*, MMDC = 265 μ mol/L); osteoblastic proliferation stimulator (UMR106 cell line, 1 μ mol/L, increase in cell proliferation = 9.9%, 10 μ mol/L, 34.4%, 100 μ mol/L, 17.6%).
Source: FU ZHOU SHU YU *Dioscorea futschauensis* (rhizome). **Ref:** 4381.



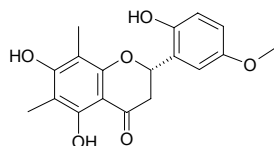
13992 4-Methoxymachilin D

C₂₁H₂₆O₅ (358.44). Colorless oil, $[\alpha]_D = -160^\circ$ ($c = 0.7$, CHCl₃). **Source:** SAN BAI CAO *Saururus chinensis* (underground part). **Ref:** 4122.



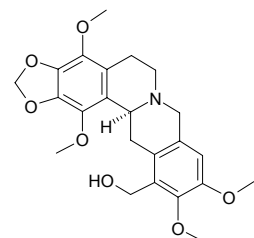
13993 Methoxymatteucin

C₁₈H₁₈O₆ (330.34). **Source:** DONG FANG JIA GUO JUE *Matteuccia orientalis*. **Ref:** 1253.



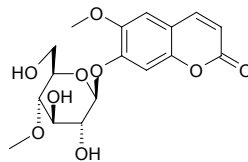
13994 Methoxymecamidrine

C₂₃H₂₇NO₇ (429.47). **Source:** HONG HUA LV RONG HAO *Meconopsis punicea*. **Ref:** 1255.



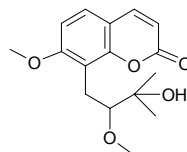
13995 6-Methoxy-7-O- β -D-(4'-methoxy) glucopyranosyl coumarin

C₁₇H₂₀O₉ (368.34). White needles (MeOH), mp 257~259°C. **Source:** JIANG CAN *Bombyx batryticatus*. **Ref:** 4591.



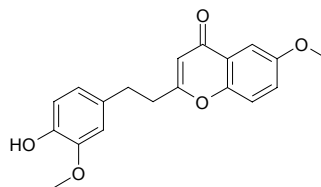
13996 7-Methoxy-8-(2'-Methoxy-3'-hydroxy-3'-methylbutyl)coumarin

C₁₆H₂₀O₅ (292.33). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata var. exotica*. **Ref:** 1291.



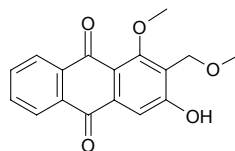
13997 6-Methoxy-2-[2-(3-methoxy-4-hydroxyphenyl)ethyl]chromone

C₁₉H₁₈O₅ (326.35). Colorless needles, mp 152~153°C (MeOH). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 4173.



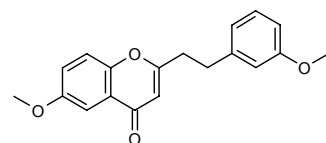
13998 1-Methoxy-2-methoxymethyl-3-hydroxyanthraquinone

C₁₇H₁₄O₅ (298.30). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 1362.



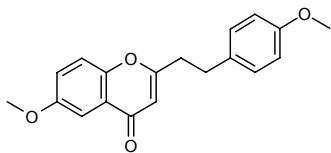
13999 6-Methoxy-2-[2-(3'-methoxyphenyl) ethyl] chromone

AH_{b1} C₁₉H₁₈O₄ (310.35). Colorless acicular crystals, mp 97~99°C. **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 660.

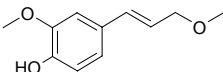


14000 6-Methoxy-2-[2-(4'-methoxyphenyl) ethyl] chromone

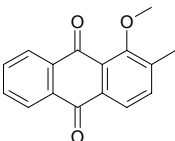
$C_{19}H_{18}O_4$ (310.35). Colorless fine acicular crystals, mp 84–85°C. Source: BAI MU XIANG *Aquilaria sinensis*. Ref: 13, 660.

**14001 2-Methoxy-4-(3-methoxy-1-propenyl)-phenol**

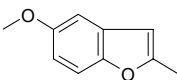
$C_{11}H_{14}O_3$ (194.23). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 1353.

**14002 1-Methoxy-2-methylanthraquinone**

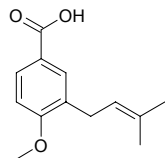
$C_{16}H_{12}O_3$ (252.27). mp 150–157°C. Source: YANG JIAO TENG *Morinda umbellata*. Ref: 6.

**14003 5-Methoxy-2-methylbenzofuran**

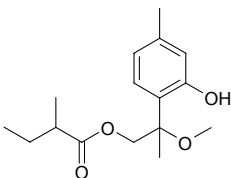
$C_{10}H_{10}O_2$ (162.19). Colorless liquid. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 780.

**14004 4-Methoxy-3-(3-methyl-2-butenyl)-benzoic acid**

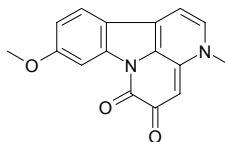
$C_{13}H_{16}O_3$ (220.27). Oil. Pharm: Anti-HIV-1 (binds to chemokine receptor CCR5, $IC_{50} = 26\mu\text{mol/L}$). Source: *Wigandia urens* (stem). Ref: 3474.

**14005 8-Methoxy-9-(2-methylbutyryloxy)thymol**

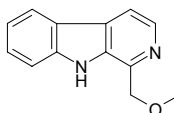
$C_{16}H_{24}O_4$ (280.37). $[\alpha]_D^{20} = 0^\circ$ ($c = 0.9$, CHCl_3). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**14006 9-Methoxy-3-methylcanthin-5,6-dione**

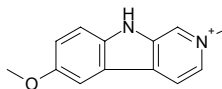
[8] $C_{16}H_{12}N_2O_3$ (280.29). Source: *Eurycoma* sp. Ref: 4556.

**14007 1-Methoxymethyl-β-carboline**

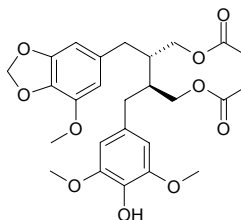
$C_{13}H_{12}N_2O$ (212.25). Source: *Eurycoma* sp. Ref: 4556.

**14008 6-Methoxy-2-methyl-β-carbolinium (cation)**

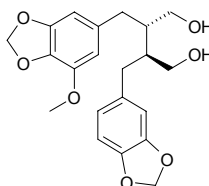
$C_{13}H_{13}N_2O^+$ (213.26). Source: HONG MU JI CAO *Desmodium gangeticum*. Ref: 6, 1214.

**14009 (2S,3S)-2-(5-Methoxy-3,4-methylenedioxybenzyl)-3-(4-hydroxy-3,5-dimethoxybenzyl)butane-1,4-diol diacetate**

$C_{26}H_{32}O_{10}$ (504.54). Colorless gum, $[\alpha]_D^{25} = +23.6^\circ$ ($c = 0.267$, CHCl_3). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00024%). Ref: 4733.

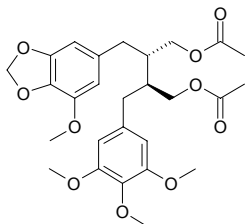
**14010 (2S,3S)-2-(5-Methoxy-3,4-methylenedioxybenzyl)-3-(3,4-methylenedioxybenzyl)butane-1,4-diol**

$C_{21}H_{24}O_7$ (388.42). Colorless gum, $[\alpha]_D^{25} = +19.0^\circ$ ($c = 0.127$, CHCl_3). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00016%). Ref: 4733.



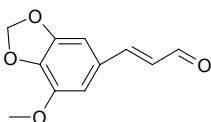
14011 (2*S*,3*S*)-2-(5-Methoxy-3,4-methylenedioxybenzyl)-3-(3,4,5-trimethoxybenzyl)butane-1,4-diol diacetate

$C_{27}H_{34}O_{10}$ (518.57). Colorless gum, $[\alpha]_D^{25} = +19.8^\circ$ ($c = 0.313$, $CHCl_3$).
Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.00036%). **Ref:** 4733.



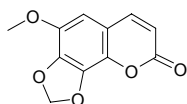
14012 (*E*)-3-Methoxy-4,5-methylenedioxcinnamaldehyde

[74683-19-5] $C_{11}H_{10}O_4$ (206.20). Yellowish rhombic crystals (hexane-ethyl acetate), mp 135~136°C. **Pharm:** Antihepatotoxin (mus, reduces amino transferase increased by CCl_4 and immunodamage of liver caused by *Propionibacterium*). **Source:** XIN JIANG GAO BEN *Conioselinum vaginatum*, GAO BEN *Ligusticum sinense*. **Ref:** 333, 1189.



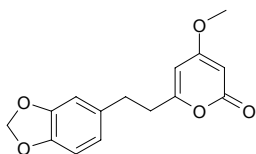
14013 6-Methoxy-7,8-methylenedioxcoumarin

$C_{11}H_8O_5$ (220.18). **Source:** BEI AI *Artemisia vulgaris*. **Ref:** 1383.



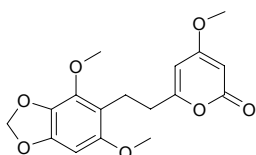
14014 4-Methoxy-6-(11,12-methylenedioxydihydrostyryl)-2-pyrone

$C_{15}H_{14}O_5$ (274.28). mp 138~140°C (Me_2CO). **Source:** SHA DI YUAN ZHI *Polygala sabulosa* **Ref:** 5110.



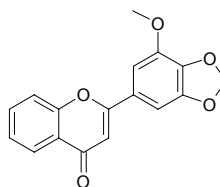
14015 4-Methoxy-6-(11,12-methylenedioxy-10,14-dimethoxydihydrostyryl)-2-pyrone

$C_{17}H_{18}O_7$ (334.33). mp 166~168°C (Me_2CO). **Source:** SHA DI YUAN ZHI *Polygala sabulosa* **Ref:** 5110.



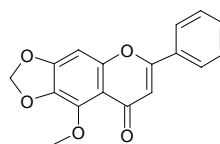
14016 3'-Methoxy-4',5'-methylenedioxyflavone

2-(3-Methoxy-4,5-methylenedioxyphenyl)-4*H*-1-benzopyran-4-one $C_{17}H_{12}O_5$ (296.28). White crystalline solid ($CHCl_3$). **Source:** HUANG HUA JIU LUN CAO *Primula veris* [Syn. *Primula officinalis*] (leaf). **Ref:** 5275.



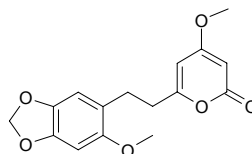
14017 5-Methoxy-6,7-methylenedioxyflavone

$C_{17}H_{12}O_5$ (296.28). **Source:** YU LIAO *Polygonum lapathifolium*. **Ref:** 1436.



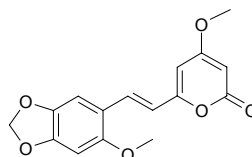
14018 4-Methoxy-6-(11,12-methylenedioxy-14-methoxydihydrostyryl)-2-pyrone

$C_{16}H_{16}O_6$ (304.30). mp 149~151°C (Me_2CO). **Source:** SHA DI YUAN ZHI *Polygala sabulosa* **Ref:** 5110.



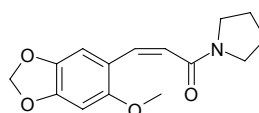
14019 4-Methoxy-6-(11,12-methylenedioxy-14-methoxystyryl)-2-pyrone

$C_{16}H_{14}O_6$ (302.29). mp 189~191°C (Me_2CO). **Source:** SHA DI YUAN ZHI *Polygala sabulosa* **Ref:** 5110.



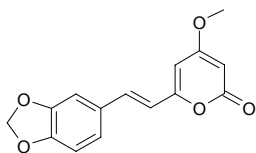
14020 *N*-[3-(6'-Methoxy-3',4'-methylenedioxyphenyl)-2(*Z*)-propenoyl]pyrrolidine

$C_{15}H_{17}NO_4$ (275.31). **Pharm:** Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0µg, control Nystatin, MIA = 0.5µg). **Source:** YING MAO HU JIAO *Piper hispidum* (stem). **Ref:** 5102.

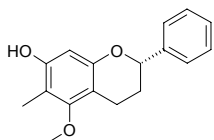


14021 4-Methoxy-6-(11,12-methylenedioxyethyl)-2-pyrone

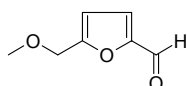
$C_{15}H_{12}O_5$ (272.26). mp 200–203°C (EtOAc). Source: SHA DI YUAN ZHI *Polygala sabulosa* Ref: 5110.

**14022 (2S)-5-Methoxy-6-methylflavan-7-ol**

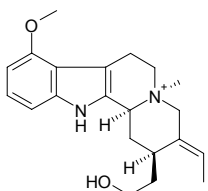
$C_{17}H_{18}O_3$ (270.33). Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*. Ref: 1518.

**14023 5-Methoxymethyl furfural**

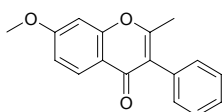
$C_7H_8O_3$ (140.14). bp 98°C/7mmHg. Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], DANG SHEN *Codonopsis pilosula*. Ref: 6, 1215, 1216.

**14024 9-Methoxy-N₆-methylgeissoschizol**

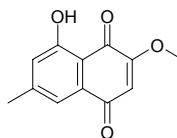
$C_{21}H_{29}N_2O_2$ (341.48). Pharm: Nicotinic acetylcholine receptor competitive inhibitor (6.298 μmol/L, endplate potential amplitude is reduced to 49%, 40.65 μmol/L, reduced this amplitude to 5%)^[3943]; toxic inactive (12mg/kg injection, did not seem toxic)^[3943]; neuromuscular toxicity (neuromuscular transmission inhibitor, IC₅₀ = 120 μmol/L; Venezuelan calabash curare, IC₅₀ = 6.5 μmol/L)^[5202]. Source: *Strychnos guianensis* (stem cortex). Ref: 3943, 5202.

**14025 7-Methoxy-2-methyl isoflavone**

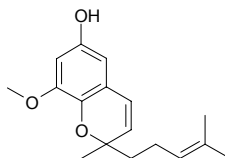
$C_{17}H_{14}O_3$ (266.30). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 1296.

**14026 3-Methoxy-7-methyljuglone**

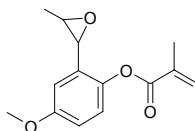
$C_{12}H_{10}O_4$ (218.21). Source: SHI GEN *Diospyros kaki*. Ref: 6.

**14027 8-Methoxy-2-methyl-2-(4-methyl-3-pentenyl)-2H-1-benzopyran-6-ol**

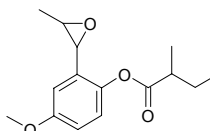
$C_{17}H_{22}O_3$ (274.36). Oil, $[\alpha]_D^{25} = -26^\circ$ ($c = 0.026$, EtOH). Pharm: Anti-HIV-1 (binds to chemokine receptor CCR5, IC₅₀ = 46 μmol/L). Source: *Wigandia urens* (stem). Ref: 3474.

**14028 (+)-4-Methoxy-2-(3-methyloxiranyl)-phenyl angelate**

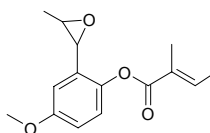
cis-Epoxy-pseudoisoeugenyl tiglate $C_{15}H_{18}O_4$ (262.31). Colorless oil, $[\alpha]_D^{25} = +22.0^\circ$ ($c = 0.5$, CHCl₃). Pharm: Antimycobacterial (*Mycobacterium intracellulare*, IC₅₀ = 2.5 μg/mL, control Ciprofloxacin, IC₅₀ = 0.25 μg/mL). Source: *Pimpinella isaurica*. Ref: 5465.

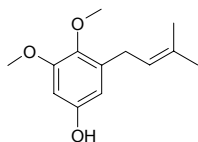
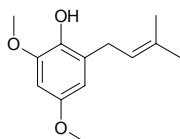
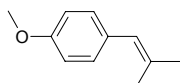
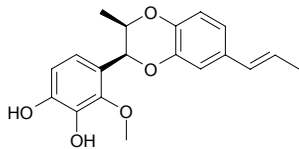
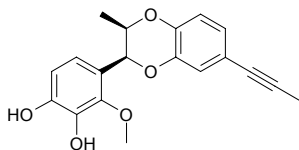
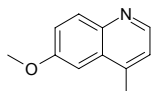
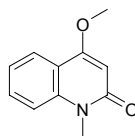
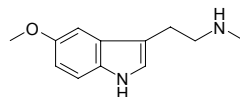
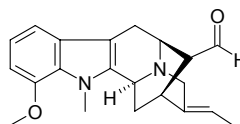
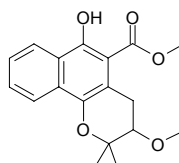
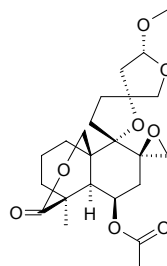
**14029 (+)-4-Methoxy-2-(3-methyloxiranyl)-phenyl-2-methylbutanoate**

Epoxy-pseudoisoeugenyl 2-methylbutyrate $C_{15}H_{20}O_4$ (264.32). Colorless oil, $[\alpha]_D^{25} = +26.0^\circ$ ($c = 1.0$, CHCl₃). Pharm: Antimycobacterial (*Mycobacterium intracellulare*, IC₅₀ = 1.5 μg/mL, control Ciprofloxacin, IC₅₀ = 0.25 μg/mL; *Mycobacterium fortuitum*, IC₅₀ = 3.0 μg/mL, Ciprofloxacin, IC₅₀ = 0.04 μg/mL; *Mycobacterium aurum*, IC₅₀ = 1.5 μg/mL, Ciprofloxacin, IC₅₀ = 0.03 μg/mL; *Mycobacterium phlei*, IC₅₀ = 0.85 μg/mL, Ciprofloxacin, IC₅₀ = 0.25 μg/mL); antifungal (*Aspergillus fumigatus*, active concentration = 50.0 μg/mL, control Amphotericin B, active concentration = 0.6 μg/mL); antimalarial (*Plasmodium falciparum* D6, IC₅₀ = 3.0 μg/mL, SI > 3.3, control Artemisinin, IC₅₀ = 0.006 μg/mL; *Plasmodium falciparum* W2, IC₅₀ = 1.3 μg/mL, SI > 7.6, control Artemisinin, IC₅₀ = 0.007 μg/mL). Source: *Pimpinella corymbosa*. Ref: 5465.

**14030 (+)-4-Methoxy-2-(3-methyloxiranyl)-phenyl tiglate**

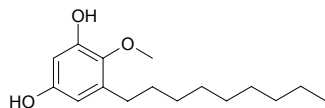
trans-Epoxy-pseudoisoeugenyl tiglate $C_{15}H_{18}O_4$ (262.31). Colorless oil $[\alpha]_D^{25} = +29.4^\circ$ ($c = 0.2$, CHCl₃). Source: *Pimpinella isaurica*. Ref: 5465.



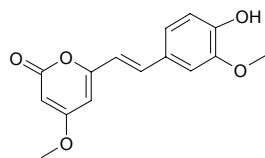
14031 2-Methoxy-1-O-methyl-6-prenylhydroquinoneC₁₃H₁₈O₃ (222.29). Source: *Plagiochila rutilans*. Ref: 5144.**14032 2-Methoxy-4-O-methyl-6-prenylhydroquinone**C₁₃H₁₈O₃ (222.29). Source: *Plagiochila rutilans*. Ref: 5144.**14033 1-Methoxy-4-(2-methylpropenyl)benzene**C₁₁H₁₄O (162.23). Colorless oil. Source: NING BIAN E TAI *Radula perrottetii* (essential oil). Ref: 5272.**14034 3-Methoxy-4-[(2S,3R)-3-methyl-7-(E)-1-propenyl]-2,3-dihydro-1,4-benzodioxin-2-yl]-1,2-benzenediol**C₁₉H₂₀O₅ (328.37). [α]_D²⁰ = +24.23° (c = 0.06, MeOH). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 2534.**14035 3-Methoxy-4-[(2S,3R)-3-methyl-7-(1-propynyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,2-benzenediol**C₁₉H₁₈O₅ (326.35). [α]_D²⁰ = +48.3° (c = 0.08, MeOH). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 2534.**14036 6-Methoxy-4-methylquinoline**C₁₁H₁₁NO (173.22). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0001%). Ref: 3020.**14037 4-Methoxy-1-methyl-2-quinolone**C₁₁H₁₁NO₂ (189.22). Pharm: Platelet aggregation inhibitor (selectively inhibits platelet aggregation induced by AA). Source: YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 2176.**14038 5-Methoxy-N-methyltryptamine**C₁₂H₁₆N₂O (204.27). bp 150°C/0.05mmHg. Source: LU ZHU GEN *Arundo donax*, PAI QIAN CAO *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*]. Ref: 6.**14039 12-Methoxy-N_α-methyl-vellosimine**C₂₁H₂₄N₂O₂ (336.44). Yellow amorphous solid. Source: BA XI LUO FU MU *Rauvolfia bahiensis*. Ref: 1952.**14040 2'-Methoxymollugin**C₁₈H₂₀O₅ (316.36). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 1361.**14041 Methoxynepetaefolin**C₂₃H₃₂O₈ (436.51). Source: CU SHENG SHAN XIANG *Hyptis fasciculata* (aerial parts). Ref: 4539.

14042 2-Methoxy-3-nonylresorcinol

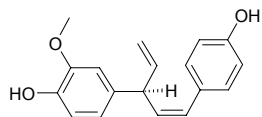
$C_{16}H_{26}O_3$ (266.38). White powder, mp > 300°C. **Pharm:** Cytotoxic inactive (*in vitro*, HL-60, IC_{50} > 100 $\mu\text{g/mL}$; Bel7402, IC_{50} > 100 $\mu\text{g/mL}$; HeLa, IC_{50} > 100 $\mu\text{g/mL}$; U937, IC_{50} > 100 $\mu\text{g/mL}$; control Colchicine, HL-60, IC_{50} = 1.6 $\mu\text{g/mL}$; Bel7402, IC_{50} = 0.4 $\mu\text{g/mL}$; HeLa, IC_{50} = 0.1 $\mu\text{g/mL}$; U937, IC_{50} = 0.1 $\mu\text{g/mL}$). **Source:** LA ZHU GUO *Aegiceras corniculatum* (stem and twig; yield = 0.000067%). **Ref:** 4746.

**14043 11-Methoxynoryangonin**

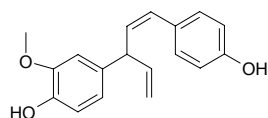
$C_{15}H_{14}O_5$ (274.28). **Source:** SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. **Ref:** 2, 660.

**14044 3'-Methoxynyasin**

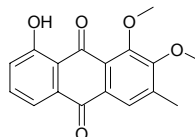
$C_{18}H_{18}O_3$ (282.34). Colorless gum, $[\alpha]_D^{21} = +55.8^\circ$ ($c = 4.80$, Me_2CO). **Pharm:** Cytotoxic (*in vitro*, HO-8910, IC_{50} = (84.0 \pm 7.0) $\mu\text{mol/L}$, Vincristine, IC_{50} = (25.1 \pm 1.9) $\mu\text{mol/L}$; Bel7405, IC_{50} = (26.2 \pm 2.9) $\mu\text{mol/L}$, Vincristine, IC_{50} = (31.4 \pm 3.4) $\mu\text{mol/L}$). **Source:** GE BI TIAN MEN *Asparagus gobicus* (root). **Ref:** 4975.

**14045 3''-Methoxynyasol**

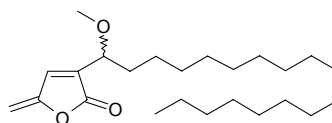
$C_{18}H_{18}O_3$ (282.34). **Pharm:** Cytotoxic (*in vitro*, Lu1, IC_{50} = 4.5 $\mu\text{g/mL}$ (15.9 $\mu\text{mol/L}$), LNCaP, IC_{50} = 6.6 $\mu\text{g/mL}$ (23.4 $\mu\text{mol/L}$), Col2, IC_{50} = 6.3 $\mu\text{g/mL}$ (22.3 $\mu\text{mol/L}$), HUVEC, IC_{50} = 6.7 $\mu\text{g/mL}$ (23.7 $\mu\text{mol/L}$), KB, IC_{50} = 9 $\mu\text{g/mL}$ (31.9 $\mu\text{mol/L}$), HOG.R5, IC_{50} = 6.8 $\mu\text{g/mL}$ (24.1 $\mu\text{mol/L}$), control Ellipticine: Lu1, IC_{50} = 0.02 $\mu\text{g/mL}$ (0.08 $\mu\text{mol/L}$), LNCaP, IC_{50} = 0.8 $\mu\text{g/mL}$ (3.25 $\mu\text{mol/L}$), Col2, IC_{50} = 0.3 $\mu\text{g/mL}$ (1.22 $\mu\text{mol/L}$), HUVEC, IC_{50} = 0.09 $\mu\text{g/mL}$ (0.37 $\mu\text{mol/L}$), KB, IC_{50} = 0.04 $\mu\text{g/mL}$ (0.16 $\mu\text{mol/L}$), HOG.R5, IC_{50} = 0.02 $\mu\text{g/mL}$ (0.08 $\mu\text{mol/L}$). **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried root; yield = 0.00011% dw). **Ref:** 3009.

**14046 2-Methoxy-obtusifolin**

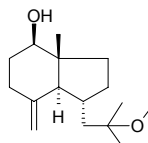
$C_{17}H_{14}O_5$ (298.30). **Source:** XUAN CAO GEN *Hemerocallis fulva*. **Ref:** 6.

**14047 3-(1-Methoxyoctadecyl)-5-methylene-5H-furan-2-one**

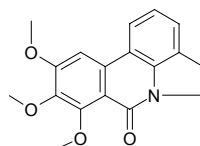
$C_{24}H_{42}O_3$ (378.60). Colorless oil, $[\alpha]_D^{25} = -13.7^\circ$ ($c = 0.0091$, CHCl_3). **Source:** TAI WAN RUI FANG RUN NAN *Machilus zuihoensis* (stem wood). **Ref:** 5287.

**14048 11-Methoxyopposit-4(15)-en-1β-ol**

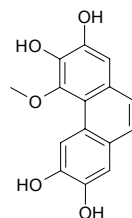
$C_{16}H_{28}O_2$ (252.40). Colorless amorphous solid, $[\alpha]_D^{26} = +48.8^\circ$ ($c = 0.04$, CHCl_3). **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts). **Ref:** 4338.

**14049 7-Methoxyoxoassoanine**

$C_{18}H_{17}NO_4$ (311.34). White amorphous solid, mp 245–247°C. **Source:** YA MA XUN BAI HE *Eucharis amazonica* (dried bulb and leaf). **Ref:** 4325.

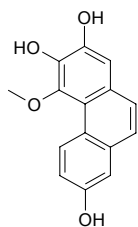
**14050 4-Methoxyphenanthrene-2,3,6,7-tetrol**

$C_{15}H_{12}O_5$ (272.26). Gum. **Source:** QIAO SHI DOU LAN *Bulbophyllum vaginatum*. **Ref:** 1870.

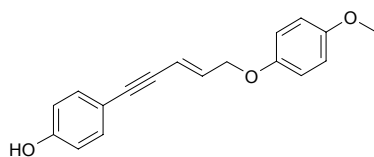


14051 4-Methoxyphenanthrene-2,3,7-triol

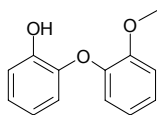
$C_{15}H_{12}O_4$ (256.26). mp 208~210°C (CHCl₃). Source: QIAO SHI DOU LAN *Bulbophyllum vaginatum*. Ref: 1870.

**14052 4-[5-(4-Methoxyphenoxy)-3-penten-1-ynyl]-phenol**

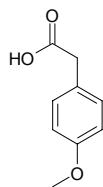
$C_{18}H_{16}O_3$ (280.33). $[\alpha]_D^{21} = -50.2^\circ$ ($c = 0.60$, CHCl₃). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**14053 *o*-(*o*-Methoxyphenoxy)phenol**

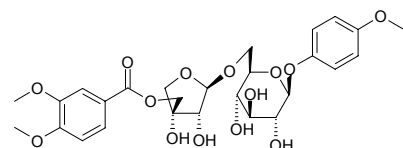
$C_{13}H_{12}O_3$ (216.24). Source: DANG SHEN *Codonopsis pilosula*. Ref: 1380.

**14054 4-Methoxyphenylacetic acid**

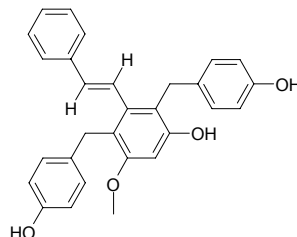
$C_9H_{10}O_3$ (166.18). Amorphous colorless solid, mp 80~83°C. Source: *Gloeophyllum odoratum*. Ref: 3972.

**14055 4-Methoxyphenyl 1-*O*- β -*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apio-furanosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside**

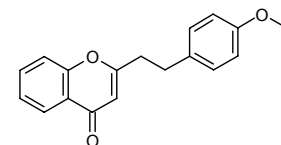
$C_{27}H_{34}O_{14}$ (582.56). Amorphous powder, $[\alpha]_D^{25} = -83^\circ$ ($c = 0.39$, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**14056 5-Methoxy-3-(2-phenyl-*E*-ethenyl)-2,4-bis(4-hydroxybenzyl)phenol**

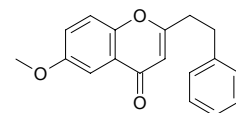
$C_{29}H_{26}O_4$ (438.53). White acicular crystals, mp 193~196°C. Source: SHAN HU LAN *Galeola faberi*. Ref: 280.

**14057 2-[2-(4'-Methoxyphenyl) ethyl] chromone**

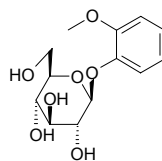
$C_{18}H_{16}O_3$ (280.33). Yellowish lamellar crystals, mp 60~61°C. Pharm: Aphrodisiac; diuretic; stimulant (the resin of the source plant CHEN XIANG is used). Source: CHEN XIANG *Aquilaria agallocha*, *Aquilaria* sp. Ref: 13, 658.

**14058 6-Methoxy-2-(2-phenylethyl) chromone**

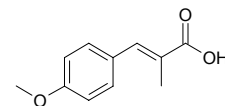
$C_{18}H_{16}O_3$ (280.33). Colorless acicular crystals, mp 68~70°C. Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**14059 2-Methoxyphenyl β -*D*-glucopyranoside**

$C_{13}H_{18}O_7$ (286.28). Colorless needles(MeOH), mp 65~68°C, $[\alpha]_D^{23} = -38^\circ$ ($c = 0.5$, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 3402.

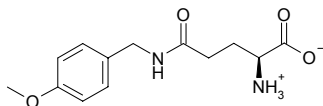
**14060 3-(4-Methoxyphenyl)-2-methyl-2-acrylic acid**

$C_{11}H_{12}O_3$ (192.22). Source: SHAN NAI *Kaempferia galanga*. Ref: 1344.

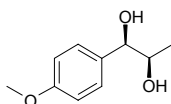


14061 *N*⁵-(4-Methoxyphenyl)methyl-*L*-glutamine

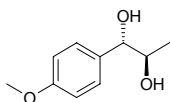
C₁₃H₁₈N₂O₄ (266.30). mp 214–215°C, [α]_D²² = +23° (c = 0.1, HCl). Source: NAN GUA *Cucurbita moschata* (root). Ref: 2293.

**14062** 1-(4'-Methoxyphenyl)-(1*R*,2*R*)-propanediol

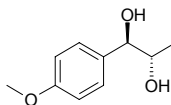
C₁₀H₁₄O₃ (182.22). Pharm: Anti-sepsis inactive (mouse, TNF-*α*/*D*-GalN-induced lethality, 50mg/kg, SuRt = 40%, control SuRt = 40%, Dexamethasone, 10mg/kg, SuRt = 100%). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14063** 1-(4'-Methoxyphenyl)-(1*R*,2*S*)-propanediol

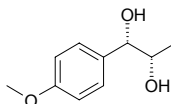
C₁₀H₁₄O₃ (182.22). Pharm: Anti-sepsis (with (1*S*,2*R*) isomer together, mouse, TNF-*α*/*D*-GalN-induced lethality, 50mg/kg, SuRt = 88.8%, control SuRt = 40%, Dexamethasone, 10mg/kg, SuRt = 100%). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14064** 1-(4'-Methoxyphenyl)-(1*S*,2*R*)-propanediol

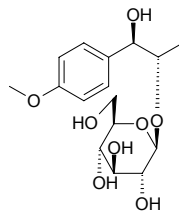
C₁₀H₁₄O₃ (182.22). Pharm: Anti-sepsis (with (1*R*,2*S*) isomer together, mouse, TNF-*α*/*D*-GalN-induced lethality, 50mg/kg, SuRt = 88.8%, control SuRt = 40%, Dexamethasone, 10mg/kg, SuRt = 100%). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14065** 1-(4'-Methoxyphenyl)-(1*S*,2*S*)-propanediol

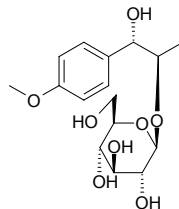
C₁₀H₁₄O₃ (182.22). Pharm: Anti-sepsis inactive (mouse, TNF-*α*/*D*-GalN-induced lethality, 50mg/kg, SuRt = 40%, control SuRt = 40%, Dexamethasone, 10mg/kg, SuRt = 100%). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14066** 1-(4'-Methoxyphenyl)-(1*R*,2*S*)-propan-1-ol 2-*O*-β-*D*-glucopyranoside

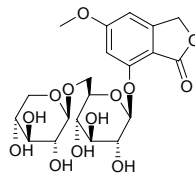
C₁₆H₂₄O₈ (344.36). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14067** 1-(4'-Methoxyphenyl)-(1*S*,2*R*)-propan-1-ol 2-*O*-β-*D*-glucopyranoside

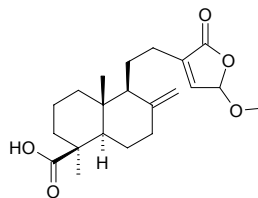
C₁₆H₂₄O₈ (344.36). Source: BA JIAO HUI XIANG *Illicium verum*. Ref: 5446.

**14068** 5-Methoxyphthalide 7-*O*-β-xylopyranosyl-(1→6)-β-glucopyranoside

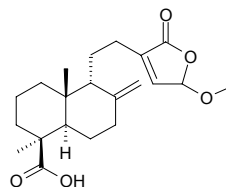
C₂₀H₂₆O₁₃ (474.42). Amorphous powder, [α]_D²⁰ = -51.5° (c = 0.51, MeOH). Source: NAO YANG HUA *Rhododendron molle*. Ref: 5396.

**14069** (10*R*)-15-Methoxypinusolidic acid

(10*R*)-15-Methoxy-8(17),13-labdadien-16,15-olide-19-oic acid C₂₁H₃₀O₅ (362.47). Yellow oil, [α]_D²⁴ = +39.0° (c = 0.4, CHCl₃). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4297.

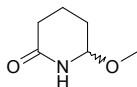
**14070** (10*S*)-15-Methoxypinusolidic acid

(10*S*)-15-Methoxy-8(17),13-labdadien-16,15-olide-19-oic acid C₂₁H₃₀O₅ (362.47). Yellowish oil, [α]_D²⁵ = +43° (c = 0.83, CHCl₃). Pharm: Neuroprotective (primary cultures of rat cortical cells, induced by glutamate, 0.1 μmol/L, cell viability = (35.3±3.5)%, *p*<0.05, 1.0 μmol/L, cell viability = (48.3±3.9)%, *p*<0.01, 10 μmol/L, cell viability = (72.7±4.7)%, *p*<0.001). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*] (leaf). Ref: 4203.

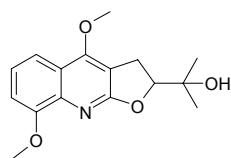


14071 6 ξ -Methoxypiperidin-2-one

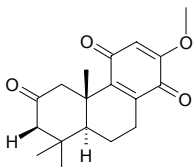
C₆H₁₁NO₂ (129.16). Colorless oil, [α]_D²⁵ = +0° (*c* = 0.5, CHCl₃). Source: BAI NIU XI *Cucubalus baccifer*. Ref: 2168.

**14072 (±)-8-Methoxyplatydesmine**

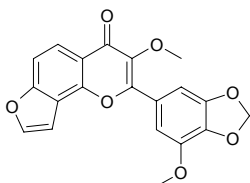
C₁₆H₁₉NO₄ (289.33). Colorless prisms (CHCl₃-Me₂CO), mp 166–168°C, [α]_D²⁴ = ±0 (*c* = 0.12, CHCl₃). Pharm: Cytotoxic (P₃₈₈ cell line, ED₅₀ = 27.5 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

**14073 13-Methoxy-8,12-podocarpadiene-2,11,14-trione**

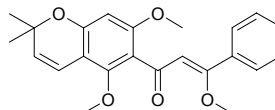
C₁₈H₂₂O₄ (302.37). Yellow powder, [α]_D²⁴ = +104.0° (*c* = 0.37, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4113.

**14074 3'-Methoxypongapin**

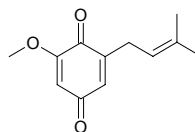
5'-Methoxypongapin; Anticancer Flavonoid PMV70P691-102 C₂₀H₁₄O₇ (366.33). Pharm: Cytotoxic (*in vitro*, Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 18.9 μg/mL, CD = 1.1 μg/mL, CI = 17.2; control Sulforaphane, IC₅₀ = 2.1 μg/mL, CD = 0.087 μg/mL, CI = 24.1)^[4721]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00019%). Ref: 1521, 4721, 5038.

**14075 7-O-Methoxypraecansone B**

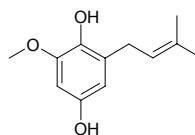
7,2',6'-Trimethoxy-6",6"-dimethylpyrano-(3',4':2",3"-)chalcone; Anticancer Flavonoid PMV70P691-023 C₂₃H₂₄O₅ (380.44). Yellow oil. Pharm: Cytotoxic (*in vitro*, Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 9.6 μg/mL, CD = 1.2 μg/mL, CI = 8; control Sulforaphane, IC₅₀ = 2.1 μg/mL, CD = 0.087 μg/mL, CI = 24.1)^[4721]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0012%). Ref: 4721, 5038.

**14076 2-Methoxy-6-prenyl-1,4-benzoquinone**

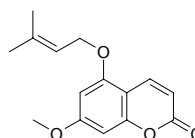
C₁₂H₁₄O₃ (206.24). Source: *Plagiochila rutilans*. Ref: 5144.

**14077 2-Methoxy-6-prenylhydroquinone**

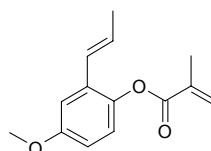
C₁₂H₁₆O₃ (208.26). Source: *Plagiochila rutilans*. Ref: 5144.

**14078 7-Methoxy-5-prenyloxycoumarin**

C₁₅H₁₆O₄ (260.29). Pharm: AChE inhibitor (*in vitro*, IC₅₀ = 240 μmol/L). Source: CHAO XIAN DANG GUI *Angelica gigas* (underground part). Ref: 3058.

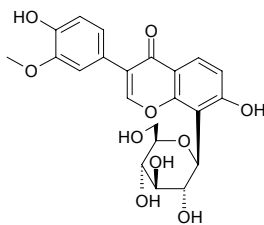
**14079 4-Methoxy-2-(1-propenyl)-phenyl angelate**

cis-Pseudoisoeugenyl angelate C₁₅H₁₈O₃ (246.31). Colorless oil. Source: *Pimpinella isaurica*. Ref: 5465.

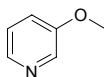


14080 3'-Methoxypuerarin

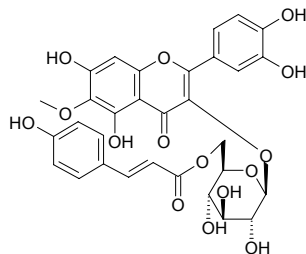
PG-3 C₂₂H₂₂O₁₀ (446.41). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 1298.

**14081 3-Methoxypyridine**

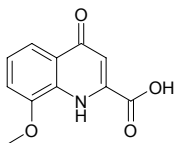
[7295-76-3] C₆H₇NO (109.13). Source: WEN JING *Equisetum arvense*. Ref: 6.

**14082 6-Methoxyquercetin-3-O-β-D-6''(p-coumaroyl)glucopyranoside**

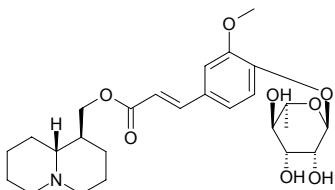
C₃₁H₂₈O₁₅ (640.56). Source: *Paepalanthus polyanthus*, *Paepalanthus hilairei*, *Paepalanthus robustus*, *Paepalanthus ramosus*, *Paepalanthus denudatus*. Ref: 2291.

**14083 8-Methoxy-4-quinolone-2-carboxylic acid**

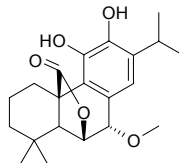
C₁₁H₉NO₄ (219.20). Yellowish powder. Pharm: Antibacterial (gram-positive bacteria, gram-negative bacteria). Source: DONG BEI HE SHI *Lappula echinata* (fruit). Ref: 4802.

**14084 (-)-(trans-3'-Methoxy-4'-α-L-rhamnosyloxy cinnamoyl)epilupinine**

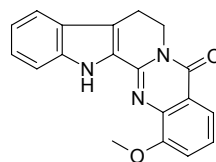
Epilupinyl rhamnosylferulate C₂₆H₃₇NO₈ (491.59). Amorphous solid, [α]_D²⁴ = -80° (c = 0.28, EtOH). Source: *Lupinus varius*. Ref: 2275.

**14085 7-Methoxyrosmanol**

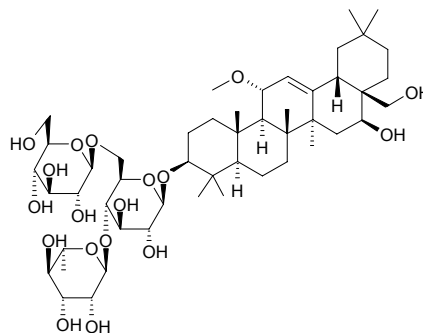
C₂₁H₂₈O₅ (360.45). Pharm: Binding activity to benzodiazepine receptor (IC₅₀ = (7.2±0.7) μmol/L, control Diazepam, IC₅₀ = (0.05±0.01) μmol/L). Source: YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 5366.

**14086 1-Methoxyrutaecarpine**

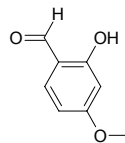
C₁₉H₁₅N₃O₂ (317.35). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**14087 11α-Methoxysaikosaponin f**

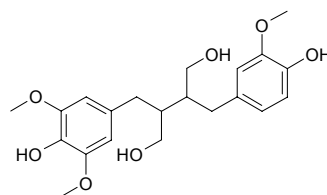
C₄₉H₈₂O₁₈ (959.19). Source: ZHU YE CHAI HU *Bupleurum marginatum*, ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. Ref: 1348, 1349.

**14088 4-Methoxysalicylaldehyde**

[673-22-3] C₈H₈O₃ (152.15). mp 40–42°C. Source: SHENG TENG *Stelmatocrypton khasianum*, XIANG JIA PI *Periploca sepium* (dried root cortex: mean content of 4 origins = 0.637%^[5508]). Ref: 6, 5508.

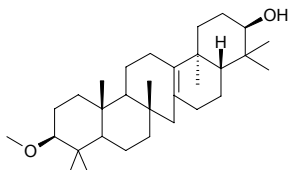
**14089 3'-Methoxysecoisolaricresinol**

C₂₁H₂₈O₇ (392.45). Source: YI ZHU QIAN MA *Urtica dioica*. Ref: 1432.

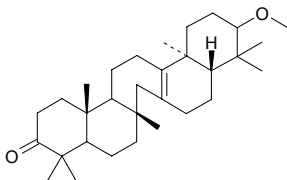


14090 3 β -Methoxyserrat-13-en-21 β -ol

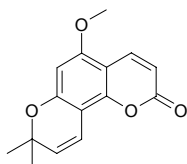
$C_{31}H_{52}O_2$ (456.76). Colorless prisms, mp 257~259°C, $[\alpha]_D^{23.5} = +59.1^\circ$ ($c = 0.28$, $CHCl_3$). **Pharm:** Antineoplastic promoter (mouse skin carcinogenesis, TPA-induced EBV-EA activation assay, compound concentration (mol ratio/32 pmol TPA) = 500, EBV-EA viability = 20.3%, IC_{50} (mol ratio/32 pmol TPA) = 271; control Oleanolic acid, compound concentration (mol ratio/32 pmol TPA) = 500, EBV-EA viability = 30.0%, IC_{50} (mol ratio/32 pmol TPA) = 360). **Source:** YU LIN YUN SHAN *Picea jezoensis* var. *jezoensis* (stem cortex). **Ref:** 5477.

**14091 21 α -Methoxyserrat-13-en-3-one**

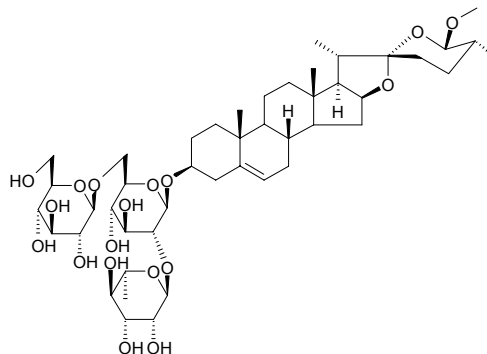
$C_{31}H_{50}O_2$ (454.74). **Source:** RI BEN YU LIN SONG *Picea jezoensis* (cuticle). **Ref:** 3076.

**14092 5-Methoxyseselin**

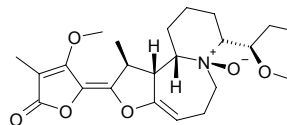
$C_{15}H_{14}O_4$ (258.28). **Pharm:** Antineoplastic (Raji cells, antitumor promoter, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (44.3±1.3)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 453$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin, $IC_{50} = 341$ mol ratio/32 pmol TPA). **Source:** *Citrus tamurana*, *Citrus hassaku*. **Ref:** 5048.



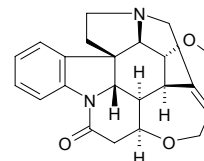
14093 (25R,26R)-26-Methoxyspirost-5-en-3 β -yl-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 6)]-D-glucopyranoside
[244160-62-1] $C_{46}H_{74}O_{18}$ (915.09). Amorphous solid, $[\alpha]_D^{27} = -47.1^\circ$ ($c = 0.14$, $MeOH:H_2O = 1:1$). **Pharm:** Na^+ , K^+ -ATPase inhibitor ($IC_{50} = 47\mu mol/L$, control Ouabain, $IC_{50} = 1.0\mu mol/L$). **Source:** QING LIANG BAI HE *Lilium candidum*. **Ref:** 2303.

**14094 Methoxystemokerrin-N-oxide**

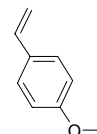
4-Methoxy-3-methyl-5-[(2Z,11aS)-8*t*-(1*R*)-1-methoxypropyl]-1*c*-methyl-(11*ar*,11*bc*)-1,2,5,6,8,9,10,11,11*a*,11*b*-decahydrofuro[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one-*N*-oxide $C_{23}H_{33}NO_6$ (419.52). Amorphous, $[\alpha]_D^{20} = +255^\circ$ ($c = 0.2$, $MeOH$). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} > 100$ mg/L, $EC_{50} = 16.3$ mg/L). **Source:** DI TANG BAI BU *Stemona kerrii*. **Ref:** 3409.

**14095 16-Methoxystrychnine**

$C_{22}H_{24}N_2O_3$ (364.45). mp 214~218°C. **Source:** LV SONG GUO *Strychnos ignatii*. **Ref:** 6.

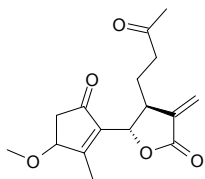
**14096 *p*-Methoxystyrene**

[637-69-4] $C_9H_{10}O$ (134.18). bp 204~205°C/756mmHg. **Source:** SHAN NAI *Kaempferia galanga*. **Ref:** 6.

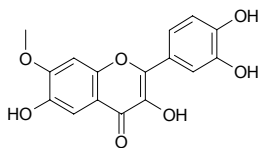


14097 3-Methoxytanapartholide

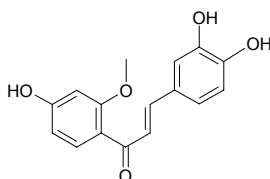
$C_{16}H_{20}O_5$ (292.33). Pharm: Anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, IC_{50} = (5.89 \pm 0.14) μ mol/L, control PTN, IC_{50} = (3.42 \pm 0.08) μ mol/L; NO production inhibitor, IC_{50} = (5.68 \pm 0.16) μ mol/L, PTN, IC_{50} = (2.41 \pm 0.06) μ mol/L, AG, IC_{50} = (34.18 \pm 0.98) μ mol/L; TNF- α production inhibitor, IC_{50} = (15.78 \pm 0.56) μ mol/L, PTN, IC_{50} = (2.68 \pm 0.11) μ mol/L). Source: LIN DI HAO *Artemisia sylvatica* (aerial parts). Ref: 3837.

**14098 7-Methoxy-3,3',4',6-tetrahydroxyflavone**

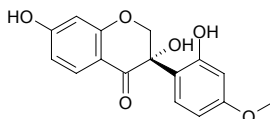
$C_{16}H_{12}O_7$ (316.27). Yellow crystals (water-methanol), mp 315~318°C. Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**14099 2'-Methoxy-3,4,4'-trihydroxychalcone**

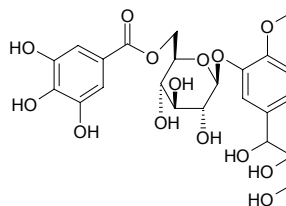
Sappanchalcone $C_{16}H_{14}O_5$ (286.29). Pharm: Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, IC_{50} = 3.9 μ mol/L, K_i = 2.60 μ mol/L, control Allopurinol, IC_{50} = 2.5 μ mol/L, K_i = 1.80 μ mol/L)^[4494]. Source: SU MU *Caesalpinia sappan* (heartwood). Ref: 1299, 4494.

**14100 (3R)-4'-Methoxy-2',3,7-trihydroxyisoflavanone**

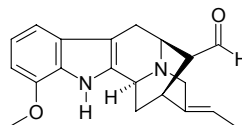
$C_{16}H_{14}O_6$ (302.29). White crystals (methanol), mp 145~147°C. Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**14101 2-Methoxy-5-(1',2',3'-trihydroxypropyl)-phenyl-1-O-(6''-galloyl)- β -D-glucopyranoside**

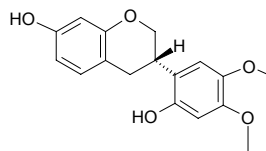
$C_{23}H_{28}O_{14}$ (528.47). Yellow powder, mp 174°C (dec), $[\alpha]_D^{25}$ = +22° (c = 0.10, MeOH). Pharm: Antifungal (*Candida albicans* ATCC2091, MIC = 50 μ g/mL, control Amphotericin B, MIC = 1 μ g/mL; *Candida albicans* 32, MIC = 100 μ g/mL, Amphotericin B, MIC = 4 μ g/mL; *Candida albicans* 19, MIC = 50 μ g/mL, Amphotericin B, MIC = 2 μ g/mL); cytotoxic inactive (MIC > 200 μ g/mL); antibacterial inactive. Source: *Baseonema acuminatum* (leaf). Ref: 5021.

**14102 12-Methoxyvellosimine**

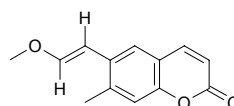
$C_{20}H_{22}N_2O_2$ (322.41). Yellow amorphous solid. Source: BA XI LUO FU MU *Rauvolfia bahiensis*. Ref: 1952.

**14103 (3R)-5'-Methoxyvestitol**

$C_{17}H_{18}O_5$ (302.33). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1289.

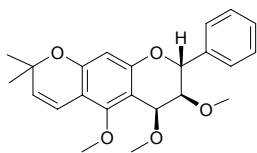
**14104 6-(2-methoxy-Z-vinyl)-7-methyl-pyranocoumarin**

$C_{13}H_{12}O_3$ (216.24). Yellow powder. Source: WU HUA GUO *Ficus carica*. Ref: 794.

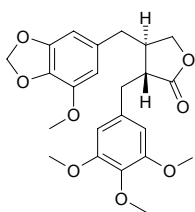


14105 3 β -Methoxyxuanlinin

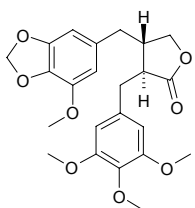
3 β ,4 β ,5-Trimethoxy-6",6"-dimethyl-2*H*-pyrano-(2",3":7,6)-flavan C₂₃H₂₆O₅ (382.46). Oil. Source: *Lonchocarpus xul* (stem cortex). Ref: 3973.

**14106 5'-Methoxyyatein**

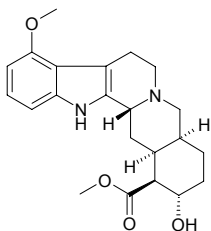
Anticancer Lignan PMV70P691-125 C₂₃H₂₆O₈ (430.46). Pharm: COX-2 inhibitor (weak but selective, IC₅₀ = 247 μmol/L, 100 μg/mL, InRt = 57%; control Resveratrol, IC₅₀ = 1.3 μmol/L)^[3869]; COX-1 inhibitor (100 μg/mL, InRt = 17%, control Resveratrol, IC₅₀ = 1.1 μmol/L)^[3869, 5038]. Source: *Macrococculus pomiferus* (stem). Ref: 3869, 5038.

**14107 (2*S*,3*S*)-(+)-5'-Methoxyyatein**

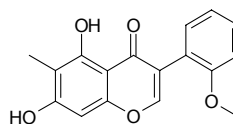
C₂₃H₂₆O₈ (430.46). Pale yellow gum, [α]_D²⁵ = +24.8° (c = 0.393, CHCl₃). Source: MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.0081%). Ref: 4733.

**14108 9-Methoxy-3-epi- α -yohimbine**

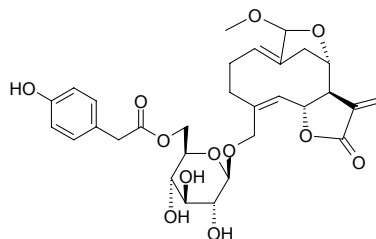
C₂₂H₂₈N₂O₄ (384.48). Colorless amorphous powder. Source: FEI ZHOU MAO ZHU MU *Mitragyna africana* (stem cortex). Ref: 4269.

**14109 2'-O-Methylabronisoflavone**

C₁₇H₁₄O₅ (298.3). Amorphous solid. Pharm: Antifungal (*Candida albicans* DSY1024, IC₅₀ = 25 μg/mL). Source: ZI MO LI GEN *Mirabilis jalapa* (Plant cell culture). Ref: 3043.

**14110 14-O-Methylacetal-15-O-[6'-(*p*-hydroxyphenylacetyl)]- β -D-glucopyranosylurospermal A**

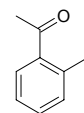
C₃₀H₃₆O₁₂ (588.61). Oil. Source: XU DUAN JU *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*] (root). Ref: 3923.

**14111 Methylacetate**

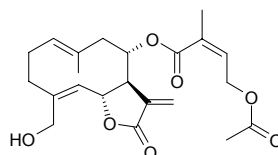
Acetic acid methyl ester [79-20-9] C₃H₆O₂ (74.08). Source: SHENG JIANG *Zingiber officinale*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. Ref: 2, 660.

**14112 *o*-Methylacetophenone**

C₉H₁₀O (134.18). Source: QING JIAO *Zanthoxylum schinifolium*, RU XIANG *Boswellia carterii*. Ref: 1271, 1297.

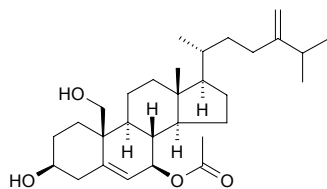
**14113 8 α -(*Z*-2-Methyl-4-acetoxybut-2-enyloxy)-15-hydroxygermacra-1(10),*E*,4*Z*,11(13)-trien-12,6 α -olide**

C₂₂H₂₈O₇ (404.46). Colorless oil, [α]_D = +54° (c = 3.26, CHCl₃). Source: CU CAO SHI CHE JU *Centaurea aspera* ssp. *aspera* (aerial parts), XIA YE CU CAO SHI CHE JU *Centaurea aspera* subsp. *stenophylla* (aerial parts). Ref: 5300.

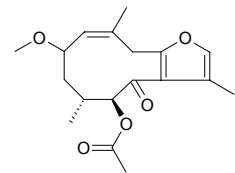


14114 24-Methyl-7 β -acetoxycholesta-5,24(28)-diene-3 β ,19-diol

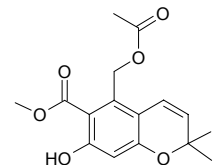
$C_{30}H_{48}O_4$ (472.71). **Pharm:** Cytotoxic inactive (hmn prostate cancer LNCaP cell line, $EC_{50} = 15.5\mu\text{g/mL}$). **Source:** *Nephthea chabroli*. **Ref:** 4375.

**14115 rel-2R-Methyl-5S-acetoxy-4R-furanogermacr-1(10)Z-en-6-one**

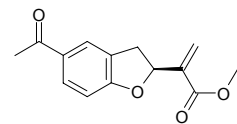
$C_{18}H_{24}O_5$ (320.39). Colorless oil, $[\alpha]_D^{20} = +113.6^\circ$ ($c = 2.3$, CHCl_3). **Pharm:** Cytotoxic inactive (*in vitro*, MCF7). **Source:** MO YAO *Commiphora myrrha* [Syn. *Commiphora molmol*]. **Ref:** 3093.

**14116 Methyl 5-acetoxymethanol-7-hydroxy-2,2-dimethyl-2H-1-chromene-6-carboxylate**

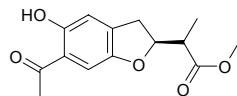
$C_{16}H_{18}O_6$ (306.32). Amorphous solid. **Pharm:** Antifungal (*Cladosporium sphaerospermum*, 100 μg , strong activity; *Cladosporium cladosporioides*, 100 μg , strong activity). **Source:** *Peperomia villipetiola* (stem). **Ref:** 5256.

**14117 Methyl-2-(5-acetyl-2,3-dihydrobenzofuran-2-yl)propenoate**

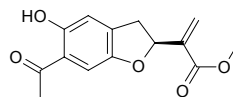
$C_{14}H_{14}O_4$ (246.27). Glassy amorphous solid, $[\alpha]_D^{20} = +8^\circ$ ($c = 0.36$, MeOH). **Source:** XIAO SHE JU GEN *Microglossa pyrifolia*. **Ref:** 5374.

**14118 Methyl-2-(6-acetyl-5-hydroxy-2,3-dihydrobenzofuran-2-yl)propanoate**

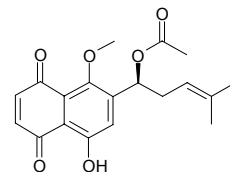
$C_{14}H_{16}O_5$ (264.28). Glassy amorphous solid. **Source:** XIAO SHE JU GEN *Microglossa pyrifolia*. **Ref:** 5374.

**14119 Methyl-2-(6-acetyl-5-hydroxy-2,3-dihydrobenzofuran-2-yl)propenoate**

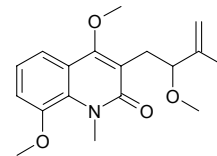
$C_{14}H_{14}O_5$ (262.26). Glassy amorphous solid, $[\alpha]_D^{20} = +15^\circ$ ($c = 0.98$, MeOH). **Source:** XIAO SHE JU GEN *Microglossa pyrifolia*, DUO ZHI KUO BAO JU *Baccharis ramosissima*. **Ref:** 5374.

**14120 1-Methyl-acetylshikonin**

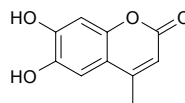
$C_{19}H_{20}O_6$ (344.37). **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**14121 O-Methylacutifolin**

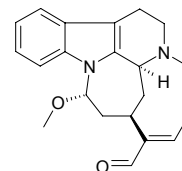
$C_{18}H_{23}NO_4$ (317.39). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**14122 β -Methyлаesculetin**

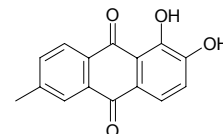
[529-84-0] $C_{10}H_8O_4$ (192.17). mp 272~274°C. **Source:** TIAN XUAN HUA *Convolvulus arvensis*. **Ref:** 6.

**14123 17-O-Methylakagerine**

[69241-17-4] $C_{21}H_{26}N_2O_2$ (338.45). **Source:** *Strychnos dale*, *Strychnos elaeocarpa*, *Strychnos vanprukii* (stem). **Ref:** 1521, 3471.

**14124 6-Methylalizarin**

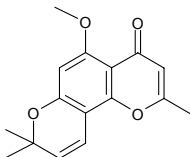
$C_{15}H_{10}O_4$ (254.24). mp 220°C. **Source:** TU LIAN QIAO *Hymenodictyon excelsum*. **Ref:** 6.



14125 5-O-Methylalloptaeroxylin

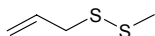
Perforatin A [35930-31-5] C₁₆H₁₆O₄ (272.30). Crystals (EtOAc–petroleum ether), mp 152.5–154°C; colorless prisms, mp 153–155°C. **Pharm:**

Antihypertensive (rat, 150mg/kg, lowers systolic pressure by 16.6% in average); Irritant (causes sneezing); stimulant. **Source:** A BI XI NI YA NIU JIN GUO *Harrisonia abyssinica*, NIU JIN GUO *Harrisonia perforata*, *Ptaeroxylon obliquum*. **Ref:** 658, 1521, 3604, 3605, 3606, 3607.

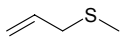
**14126 Methyl allyl disulfide**

[2179-58-0] C₄H₈S₂ (120.24). **Pharm:** Antineoplastic (mus, inhibits cardiac sinus cancer and pulmonary adenoma induced by carcinogens

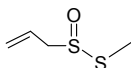
N-nitrosodiethylamine, NDEA or benzopyrene. **Source:** GE CONG *Allium victorialis*, JIU CAI *Allium tuberosum*, DA SUAN *Allium sativum*. **Ref:** 2, 6, 1684, 1844.

**14127 Methyl allyl sulfide**

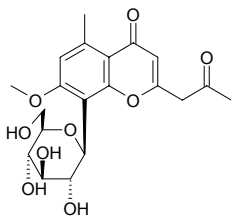
[10152-76-8] C₄H₈S (88.17). **Source:** DA SUAN *Allium sativum*, SHENG JIANG *Zingiber officinale*. **Ref:** 2, 6.

**14128 Methyl allyl thiosulfinate**

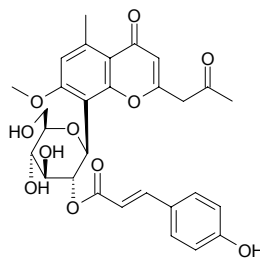
C₄H₈OS₂ (136.24). **Source:** DA SUAN *Allium sativum*. **Ref:** 1392.

**14129 7-O-Methylaloesin**

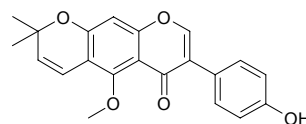
C₂₀H₂₄O₉ (408.41). **Source:** MA SHI LU HUI *Aloe marlothii*. **Ref:** 726.

**14130 7-O-Methylaloesin A**

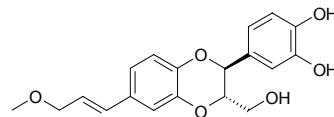
C₂₉H₃₀O₁₁ (554.56). **Source:** MA SHI LU HUI *Aloe marlothii*. **Ref:** 726.

**14131 5-O-Methylalpinumisoflavone**

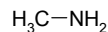
C₂₁H₁₈O₅ (350.37). White granules (petrol), mp 199–200°C. **Source:** *Millettia thonningii*. **Ref:** 2326.

**14132 9'-O-Methylamericanol A**

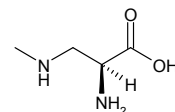
C₁₉H₂₀O₆ (344.37). [α]_D²⁰ = 0° (c = 0.12, MeOH). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*] (seed). **Ref:** 4407.

**14133 Methylamine**

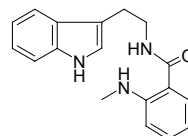
[74-89-5] CH₃N (31.06). mp –92.5°C, bp –6.5°C. **Source:** BAI QU CAI *Chelidonium majus*, HAI XIA *Penaeus orientalis*, MAI JIAO *Claviceps purpurea*. **Ref:** 6.

**14134 3-Methylamino-L-alanine**

C₄H₁₀N₂O₂ (118.14). **Pharm:** Growth retardant (rat, orl); toxin. **Source:** QUAN YE SU TIE *Cycas circinalis*. **Ref:** 658.

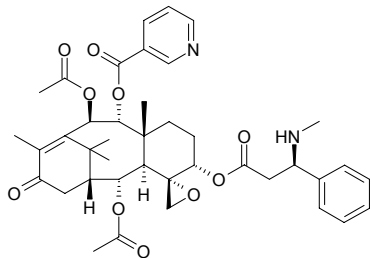
**14135 N-(2-Methylaminobenzoyl)tryptamine**

C₁₈H₁₉N₃O (293.37). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 1301.

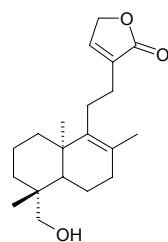


14136 5 α -O-(3'-Methylamino-3'-phenylpropionyl)nicotaxine

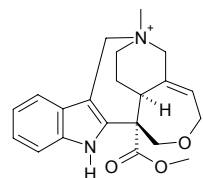
C₄₀H₄₈N₂O₁₀ (716.84). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**14137 8-Methylandrograpanin**

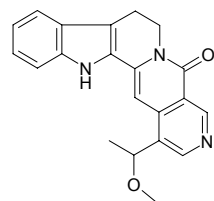
C₂₀H₃₀O₃ (318.46). Colorless crystals, mp 127~129°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (leaf). Ref: 4913.

**14138 N4-Methyl angustilobine B**

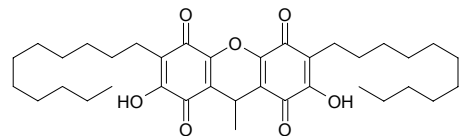
C₂₁H₂₅N₃O₃ (353.44). Source: XIANG PI MU *Alstonia scholaris* (leaf). Ref: 5283.

**14139 19-O-Methylangustoline**

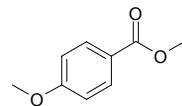
[132074-99-8] C₂₁H₁₉N₃O₂ (345.40). Yellowish crystals (acetone), mp 222~225°C, [α]_D²⁵ = -6.3° (c = 0.008, methanol). Pharm: Cytotoxic (P₃₈₈ *in vitro*, ED₅₀ = 2.32 μg/mL). Source: XI SHU *Camptotheca acuminata*. Ref: 1110, 1521.

**14140 Methylanhydrovilangin**

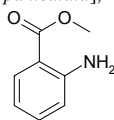
C₃₆H₅₂O₇ (596.81). Orange crystals (petroleum ether:dichloromethane = 9:1), mp 157~158°C, [α]_D²⁵ = +47° (c = 1.0, CH₂Cl₂). Source: TIE ZI *Myrsine africana* (fruit). Ref: 3464.

**14141 Methyl p-anisate**

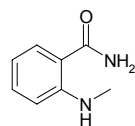
C₉H₁₀O₃ (166.18). Source: RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4502.

**14142 Methylantranilate**

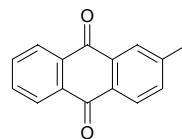
[134-20-3] C₈H₉NO₂ (151.17). mp 24~25°C. Source: DAI DAI HUA *Citrus aurantium* var. *amara*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], YOU⁽⁴⁾ *Citrus grandis*. Ref: 6, 11.

**14143 N-Methylantranlylamide**

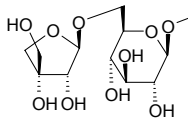
[7505-81-9] C₈H₁₀N₂O (150.18). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 347.

**14144 2-Methylantraquinone**

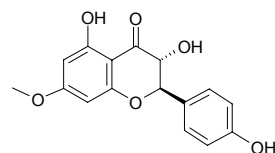
Tectoquinone [84-54-8] C₁₅H₁₀O₂ (222.25). Faint yellow needles, mp 175~176°C, mp 177~179°C. Pharm: Insecticidal (termites and other insects). Source: GUANG ZE BA JI *Morinda lucida*, MAN JIU JIE *Psychotria serpens*, QI YE HUANG PI *Clausena heptaphylla*, QIAN CAO GEN *Rubia cordifolia*, QU ZHOU HAI JIN SHA *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], YANG JIAO TENG *Morinda umbellata* (root and stem), YOU MU *Tectona grandis*, YUAN WEI *Iris tectorum*, *Diospyros sylvatica* (root). Ref: 6, 658, 660, 3811.

**14145 Methyl β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

C₁₂H₂₂O₁₀ (326.30). Colorless syrup, [α]_D²¹ = -81° (c = 0.4, MeOH). Source: ZI RAN QIN *Cuminum cyminum* (fruit). Ref: 3395.

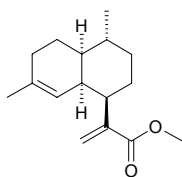
**14146 7-O-Methylaromadendrin**

C₁₆H₁₄O₆ (302.29). Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. Ref: 1385.

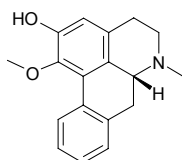


14147 Methylarteannuate

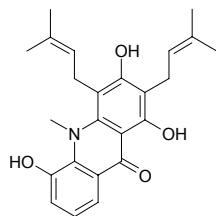
$C_{16}H_{24}O_2$ (248.37). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**14148 N-Methylasimilobine**

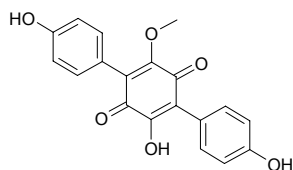
O-Normuciferine [3153-55-7] $C_{18}H_{19}NO_2$ (281.36). mp 195–196°C. Source: HE YE *Nelumbo nucifera*, HE GENG *Nelumbo nucifera*, HE YE DI *Nelumbo nucifera*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 6, 1480, 1481, 1521.

**14149 N-Methylalaphylline**

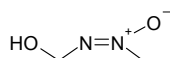
$C_{24}H_{27}NO_4$ (393.49). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**14150 2-O-Methylatromentin**

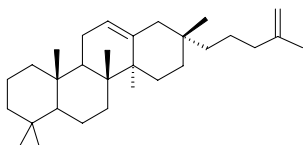
$C_{19}H_{14}O_6$ (338.32). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**14151 Methylazoxymethanol**

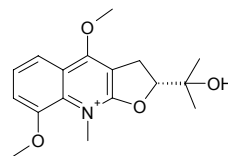
[590-96-5] $C_2H_6N_2O_2$ (90.08). Source: SU TIE SHU GUO *Cycas revoluta*. Ref: 1416.

**14152 21-Methyl bacchara-12,22(29)-diene**

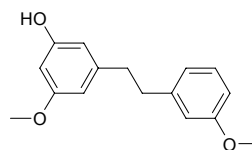
$C_{30}H_{50}$ (410.73). Source: XING JUE *Microsorium punctatum*. Ref: 1506.

**14153 O-Methylbalfourodinium (salt)**

$C_{17}H_{22}NO_4^+$ (304.37). Source: CHOU SHAN YANG *Orixa japonica*. Ref: 6.

**14154 3'-O-Methylbatatasin III**

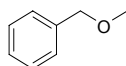
$C_{16}H_{18}O_3$ (258.32). White powder. Pharm: Antibacterial (*Streptococci* sp.); antiallergic β -Hexosaminidase inhibitor (rat basophilic RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (70.0 \pm 2.1) μ mol/L, $p < 0.01$; 300 μ mol/L control Ketotifen fumarate, InRt = (72.5 \pm 0.9) μ mol/L, $p < 0.01$)^[5022]. Source: BAI JI *Bletilla striata*, SHOU ZHANG SHEN *Gymnadenia conopsea* (tuber). Ref: 658, 5022.

**14155 Methylbenzene**

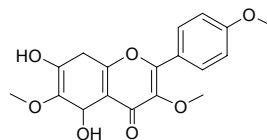
Toluene; Toluol [108-88-3] C_7H_8 (92.14). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**14156 Methyl benzyl ether**

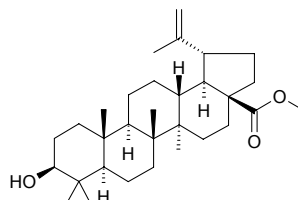
[538-86-3] $C_8H_{10}O$ (122.17). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**14157 3-Methyl betuletol**

3,6-Dimethoxy kaempferide $C_{18}H_{18}O_7$ (346.34). Source: YUE HUA *Betula ermanii*. Ref: 1507.

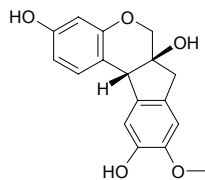
**14158 Methylbetulinat**

Methyl betulinat $C_{31}H_{50}O_3$ (470.74). Needles, mp 220–221°C, 223–224°C, $[\alpha]_D^{27} = +10.3^\circ$ ($c = 1.55$, CH_2Cl_2). Source: DAO GEN MEI *Rhizopus oryzae*, QIAO MU ZI ZHU *Callicarpa arborea*, QIU FENG MU *Bischofia javanica* [Syn. *Bischofia trifoliata*], XIA KU CAO *Prunella vulgaris*. Ref: 6, 2508, 3781.

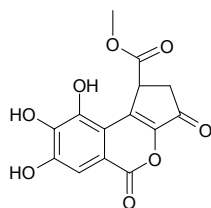


14159 3'-O-Methylbrazilin

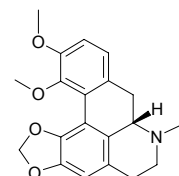
[111254-30-9] C₁₇H₁₆O₅ (300.31). [α]_D²⁵ = +113.2° (c = 0.21, MeOH). Source: SU MU *Caesalpinia sappan* (heartwood). Ref: 1302, 1521, 4494.

**14160 Methyl brevifolin carboxylate**

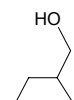
C₁₄H₁₀O₈ (306.23). Yellowish acicular crystals, mp 200°C. Source: YE XIA ZHU *Phyllanthus urinaria*. Ref: 283, 607.

**14161 O-Methylbulbocapnine**

[2490-83-7] C₂₀H₂₁NO₄ (339.39). mp 129~130°C, [α]_D = +248° (c = 0.67, CHCl₃). Source: HEI KE NAN *Lindera megaphylla*. Ref: 1508, 1521.

**14162 2-Methyl-1-butanol**

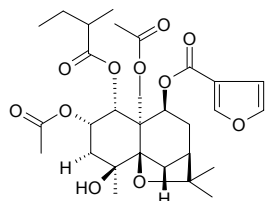
C₅H₁₂O (88.15). Source: JIN YIN HUA *Lonicera japonica*. Ref: 1378.

**14163 3-Methyl butanone**

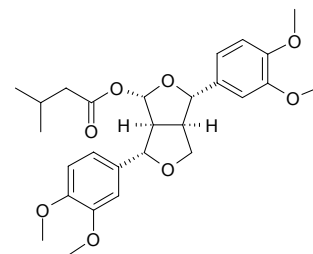
C₅H₁₀O (86.31). Source: YOU GAN LAN *Olea europaea*, FAN QIE *Lycopersicon esculentum*. Ref: 1455, 1456.

**14164 1 α -(α -Methyl)-butanoyl-2 α ,15-diacetoxy-4 β -hydroxy-9 β -(β -)furoxyloxy- β -dihydroagarofuran**

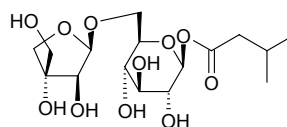
C₂₉H₄₀O₁₁ (564.64). Colorless gum, [α]_D²⁰ = +38° (c = 1.17, CHCl₃). Source: *Euonymus nanoides* (seed). Ref: 4962.

**14165 (+)-4-(3-Methylbutanoyl)-2,6-di(3,4-dimethoxy)phenyl-3,7-dioxabicyclo[3.3.0]octane**

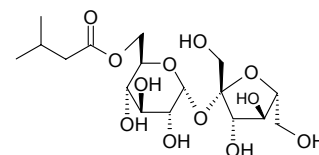
C₂₇H₃₄O₈ (486.57). White powder (MeOH), mp 94~95°C, [α]_D²² = +9.7° (c = 0.35, CHCl₃). Source: JU DA LAN CI TOU *Echinops giganteus* (root). Ref: 3828.

**14166 3-Methylbutanoyl-1-O- β -D-glucopyranosyl- β -D-apiofuranoside**

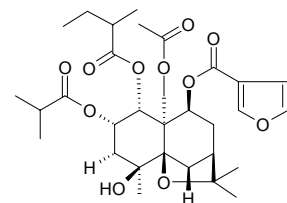
C₁₆H₂₈O₁₁ (396.39). Source: XIAO GUO KA FEI *Coffea arabica*. Ref: 1960.

**14167 3-Methylbutanoyl-6-O- α -D-glucopyranosyl- β -D-fructofuranoside and**

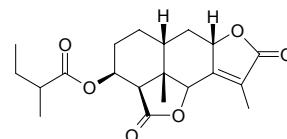
C₁₇H₃₀O₁₂ (426.42). Source: XIAO GUO KA FEI *Coffea arabica*. Ref: 1960.

**14168 1 α -(α -Methyl)-butanoyl-2 α -(α -methyl)-propynoyloxy-4 β -hydroxy-9 β -(β -)furoxyloxy-15-acetoxy- β -dihydroagarofuran**

C₃₁H₄₄O₁₁ (592.69). Colorless gum, [α]_D²⁰ = +38° (c = 1.03, CHCl₃). Pharm: Cytotoxic (*in vitro*, Bel7402 liver carcinoma, IC₅₀ = 27.71 μg/mL, control Etoposide, IC₅₀ = 7.00 μg/mL). Source: *Euonymus nanoides* (seed). Ref: 4962.

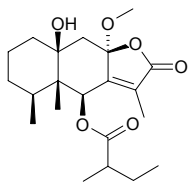
**14169 3 β -(2'-Methylbutanoyloxy)-8 β H-eremophil-7(11)-ene-12,8 α -(14,6 α)-diolide**

C₂₀H₂₆O₆ (362.43). Colorless plates, mp 190~191°C, [α]_D²⁰ = +125.5° (c = 0.40, CHCl₃). Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.

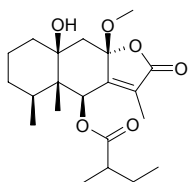


14170 6 β -(2'-Methylbutanoyloxy)-10 β -hydroxy-8 α -methoxyeremophil-7(11)-en-12,8 β -olide

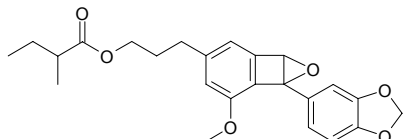
C₂₁H₃₂O₆ (380.49). Pale gel, $[\alpha]_D^{20} = -93^\circ$ ($c = 0.83$, Me₂CO). **Pharm:** Antibacterial (*Staphylococcus aureus*, antibacterial circle < 12mm; *Bacillus subtilis*, antibacterial circle = 13–16mm; *Escherichia coli*, antibacterial circle < 12mm). **Source:** JIAN YE TOU WU GEN *Ligularia sagitta*. **Ref:** 5382.

**14171 6 β -(2'-Methylbutanoyloxy)-10 β -hydroxy-8 β -methoxyeremophil-7(11)-en-12,8 α -olide**

C₂₁H₃₂O₆ (380.49). White gel, $[\alpha]_D^{20} = +34^\circ$ ($c = 0.21$, Me₂CO). **Source:** JIAN YE TOU WU GEN *Ligularia sagitta*. **Ref:** 5382.

**14172 4-[3'-(1c-Methylbutanoyloxy)propyl]-2-methoxy-(3',4'-methylenedioxyphenyl)-1a,5b-dihydrobenzo-[3,4]-cyclobutaoxirene**

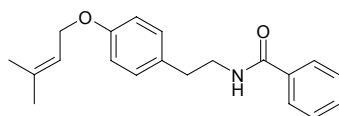
C₂₄H₂₆O₆ (410.47). **Source:** YAO YONG AN XI XIANG *Styrax officinalis*. **Ref:** 3426.

**14173 2-Methyl-2-butene**

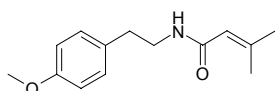
C₅H₁₀ (70.14). **Source:** MENG GU HAO *Artemisia mongolica*. **Ref:** 1384.

**14174 4-(3'-Methyl-but-2'-ene)oxy, N-benzoyl phenethyl amine**

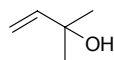
C₂₀H₂₃NO₂ (309.41). Yellow acicular crystals, mp 103.5–104.5°C. **Source:** DONG FENG JU YE *Atalantia buxifolia* [Syn. *Severinia buxifolia*]. **Ref:** 67.

**14175 3-Methyl-but-2-enoic acid-[2-(4-methoxy phenyl)-ethyl]-amide**

C₁₄H₁₉NO₂ (233.31). Oil. **Source:** YAN SHENG JIA MU ZEI *Anabasis salsa*, DUAN YE JIA MU ZEI *Anabasis brevifolia*. **Ref:** 4861.

**14176 2-Methylbut-3-en-2-ol**

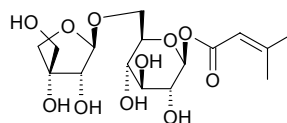
[115-18-4] C₅H₁₀O (86.13). **Source:** FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], PI JIU HUA *Humulus lupulus*. **Ref:** 2, 1217.

**14177 3-Methyl-3-butenone**

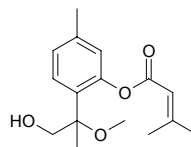
C₅H₈O (84.12). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 1367.

**14178 3-Methylbut-2-enoyl-1-O-β-D-glucopyranosyl-β-D-apiofuranoside**

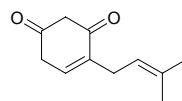
C₁₆H₂₆O₁₁ (394.38). **Source:** XIAO GUO KA FEI *Coffea arabica*. **Ref:** 1960.

**14179 3-O-(3-Methyl-2-butenoyl)-8-methoxy-9-hydroxythymol**

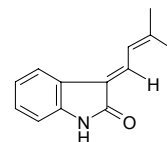
C₁₆H₂₂O₄ (278.35). $[\alpha]_D^{23} = +18.2^\circ$ ($c = 0.8$, CHCl₃). **Source:** PEI LAN *Eupatorium fortunei* (aerial parts). **Ref:** 3077.

**14180 4-(3-Methyl-2-butenyl)-4-cyclohexene-1,3-dione**

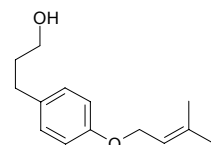
C₁₁H₁₄O₂ (178.23). **Source:** CHUAN XU DUAN *Dipsacus asperoides*. **Ref:** 1379.

**14181 (E)-3-(3'-Methyl-2'-butenylidene)-2-indolinone**

C₁₃H₁₃NO (199.25). **Source:** XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 1309, 1310.

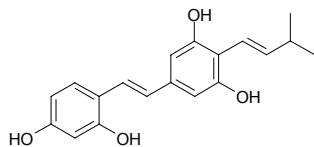
**14182 4'-(3''-Methylbut-2''-enyloxy)-3-phenylpropanol**

C₁₄H₂₀O₂ (220.31). **Pharm:** Antifungal (TLC-based assay, *Cladosporium cucumerinum*, MIQ = 0.1μg; control Miconazole, MIQ = 1μg). **Source:** *Fagara xanthoxyloides*. **Ref:** 5385.

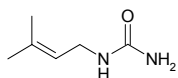


14183 trans-4-(3-Methyl-E-but-1-enyl)-3,5,2',4'-tetrahydroxystilbene

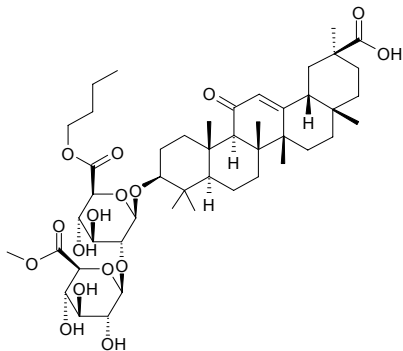
$C_{19}H_{20}O_4$ (312.37). Pale orange powder, mp 191~193°C. **Pharm:** Antimalarial (*Plasmodium falciparum*, $EC_{50} = 1.7\mu\text{g/mL}$, control Chloroquine diphosphate, $EC_{50} = 0.16\mu\text{g/mL}$, $EC_{50} = 3.1\mu\text{mol/L}$). **Source:** QUAN YUAN GUI MI *Artocarpus integra* (aerial parts). **Ref:** 3963.

**14184 N-3-methyl-2-butenyl urea**

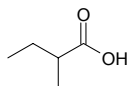
$C_6H_{12}N_2O$ (128.18). Colorless acicular crystals, mp 104~105°C. **Pharm:** Analgesic (*in vivo*, 10mg/kg); calcium antagonist (screening model of blood vessel strip, *in vitro*, 30 $\mu\text{g/mL}$); antihypertensive. **Source:** XUN DAO NIU *Biebersteinia heterostemon*. **Ref:** 324, 658.

**14185 Methyl-n-butyl-uralsaponin A esters**

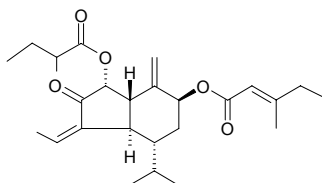
3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid 3-O- β -D-(n-butyl)-glucuronopyranosyl ester)-(1 \rightarrow 2)- β -D-(methyl)-glucuronopyranosyl ester $C_{47}H_{72}O_{16}$ (893.09). Colorless powder, mp 257°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 2148.

**14186 2-Methyl butyric acid**

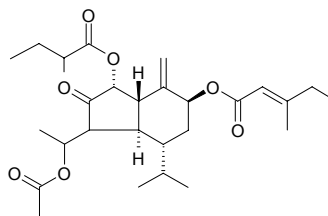
[116-53-0] $C_5H_{10}O_2$ (102.13). bp 177°C. **Source:** XING ZI *Prunus armeniaca*. **Ref:** 6.

**14187 Methyl butyric acid 3,14-dehydro-Z-tussilagin ester**

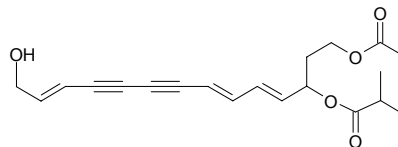
[80514-14-3] $C_{26}H_{38}O_5$ (430.59). Colorless jelly, $[\alpha]_{589\text{nm}}^{24} = -125^\circ$, $[\alpha]_{578\text{nm}}^{24} = -135^\circ$, $[\alpha]_{546\text{nm}}^{24} = -164^\circ$, $[\alpha]_{436\text{nm}}^{24} = -494^\circ$ ($c = 1.0$, chloroform). **Pharm:** Platelet aggregation inhibitor (due to PAF). **Source:** KUAN DONG HUA *Tussilago farfara*. **Ref:** 976, 1092, 1178.

**14188 Methyl butyric acid tussilagin ester**

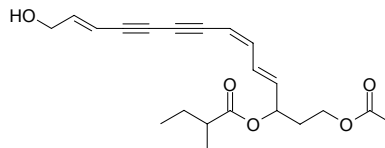
[80489-87-8] $C_{28}H_{42}O_7$ (490.46). Colorless jelly, $[\alpha]_{589\text{nm}}^{24} = -124^\circ$, $[\alpha]_{578\text{nm}}^{24} = -133^\circ$, $[\alpha]_{546\text{nm}}^{24} = -159^\circ$, $[\alpha]_{436\text{nm}}^{24} = -390^\circ$ ($c = 4.0$, chloroform). **Pharm:** Platelet aggregation inhibitor (due to PAF). **Source:** KUAN DONG HUA *Tussilago farfara*. **Ref:** 1086, 1178.

**14189 12-(α -Methyl butyryl)-14-acetyl-2E,8E,10E-atractylentriol**

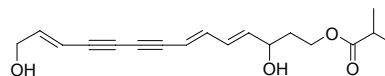
$C_{21}H_{26}O_5$ (358.44). **Source:** BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*]. **Ref:** 1386.

**14190 12-(α -Methyl butyryl)-14-acetyl-2E,8Z,10E-atractylentriol**

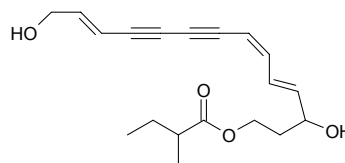
$C_{21}H_{26}O_5$ (358.44). **Source:** BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*]. **Ref:** 1386.

**14191 14(α -Methyl butyryl)-2E,8E,10E-atractylentriol**

$C_{19}H_{24}O_4$ (316.40). **Source:** BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*]. **Ref:** 1386.

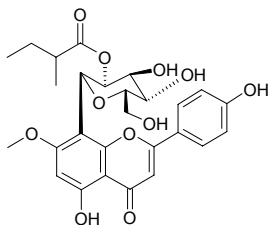
**14192 14(α -Methyl butyryl)-2E,8Z,10E-atractylentriol**

$C_{19}H_{24}O_4$ (316.40). **Source:** BAI ZHU *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*]. **Ref:** 1386.

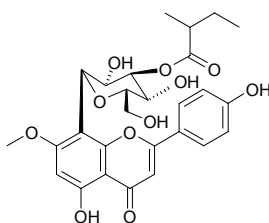


14193 2''-O-(2'''-Methylbutyryl)isowertisin

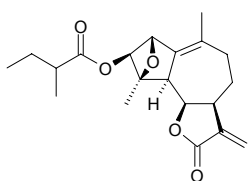
$C_{27}H_{30}O_{11}$ (530.53). Yellow powder, mp 155~157°C, $[\alpha]_D^{20} = -21.2^\circ$ ($c = 0.066$, CH_3OH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.014%dw). Ref: 4743.

**14194 3''-O-(2'''-Methylbutyryl)isowertisin**

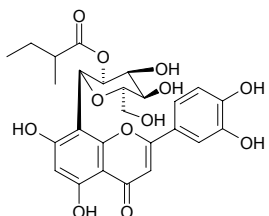
$C_{27}H_{30}O_{11}$ (530.53). Yellow powder, mp 231~233°C, $[\alpha]_D^{20} = -41.1^\circ$ ($c = 0.036$, CH_3OH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00018%dw). Ref: 4743.

**14195 3β-O-(2-Methylbutyryl)moroccolide A**

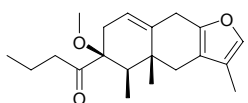
5*aH*-2β,4-Epoxy-3β-(2-methylbutyryloxy)guaia-1(10),-11(13)-dien-6β,12-olide $C_{20}H_{26}O_5$ (346.43). Colorless gum, $[\alpha]_D^{22} = +102^\circ$ ($c = 0.1$, EtOH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 1\mu g/mL$). Source: *Warionia saharae* (leaf: yield = 0.0046%dw). Ref: 4620.

**14196 2''-O-(2'''-Methylbutyryl)orientin**

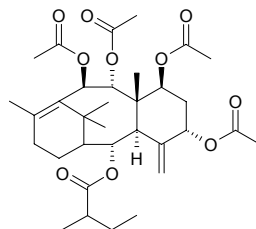
$C_{26}H_{28}O_{12}$ (532.51). Yellow powder, mp 185~187°C, $[\alpha]_D^{20} = -16.8^\circ$ ($c = 0.054$, CH_3OH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00097%dw). Ref: 4743.

**14197 3-Methylbutyryloxyeurypsins**

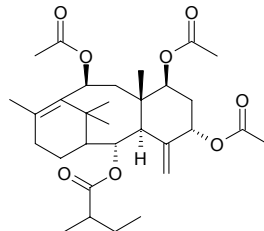
$C_{20}H_{28}O_3$ (316.44). $[\alpha]_D = -45.9^\circ$ ($c = 1$, $CHCl_3$). Source: HUANG SE QIAN LI GUANG *Senecio flavus*. Ref: 2409.

**14198 2α-(α-Methylbutyryl)-oxy-5α,7β,9α,10β-tetraacetoxy-4(20),11-taxadiene**

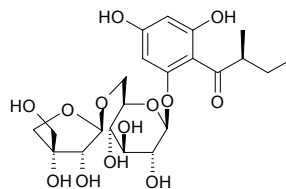
$C_{33}H_{48}O_{10}$ (604.74). mp 155~156°C, $[\alpha]_D = +56^\circ$. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**14199 2α-(α-Methylbutyryl)-oxy-5α,7β,10β-triacetoxy-4(20),11-taxadiene**

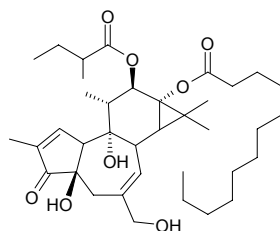
$C_{31}H_{46}O_8$ (546.71). mp 115°C, $[\alpha]_D = +45^\circ$. Source: JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**14200 2-(2-Methylbutyryl)phloroglucinol 1-O-(6''-O-β-D-apiofuranosyl)-β-D-glucopyranoside**

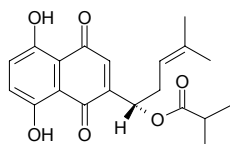
$C_{22}H_{32}O_{13}$ (504.49). Yellow amorphous powder, $[\alpha]_D^{18} = -60.3^\circ$ ($c = 0.30$, MeOH). Source: YOU GAN YE *Phyllanthus emblica* (leaf and branch). Ref: 4205.

**14201 12-O-(2-Methylbutyryl)phorbol-13-dodecanoate**

$C_{37}H_{58}O_8$ (630.87). Pharm: Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 15.76\mu g/mL$, $CC_0 = 62.5\mu g/mL$, control DS8000, $IC_{100} = 3.9\mu g/mL$, $CC_0 > 1000\mu g/mL$); PKC activator (10ng/mL, activity rate = 16%). Source: BA DOU *Croton tiglium*. Ref: 3921.

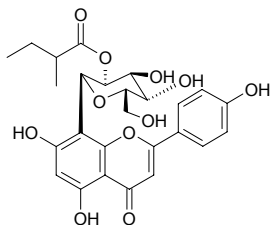
**14202 α-Methyl-n-butyrylshikonin**

$C_{21}H_{24}O_6$ (372.42). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2.

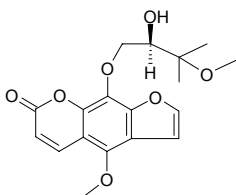


14203 2''-O-(2'''-Methylbutyryl)vitexin

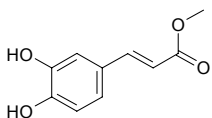
$C_{26}H_{28}O_{11}$ (516.51). Yellow powder, mp 179~181°C, $[\alpha]_D^{20} = -22.0^\circ$ ($c = 0.064$, CH_3OH). **Source:** DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower: yield = 0.00033%dw). **Ref:** 4743.

**14204 tert-O-Methyl byakangelicin**

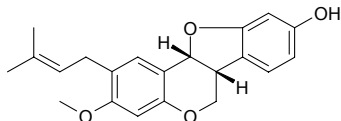
$C_{18}H_{20}O_7$ (348.36). Crystals, mp 95~96°C, $[\alpha]_D^{14} = -17.8^\circ$ (EtOH). **Source:** HOU GUO DANG GUI *Angelica pachycarpa*, QI BAI ZHI *Angelica dahurica* cv. *qibaizhi*. **Ref:** 1347.

**14205 Methyl caffeate**

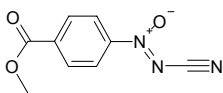
[3843-74-1] $C_{10}H_{10}O_4$ (194.19). **Pharm:** Antineoplastic (S_{180}). **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00051%dw)^[4722], TIAN REN JU *Gaillardia pulchella*. **Ref:** 658, 2529, 4502, 4722.

**14206 3-O-Methylcalopocarpin**

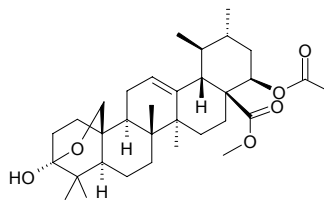
$C_{21}H_{22}O_4$ (338.41). **Pharm:** Anti-HIV (inhibits cell denaturalization affected by HIV). **Source:** HUI CI TONG *Erythrina glauca*. **Ref:** 2268.

**14207 Methyl calvatate**

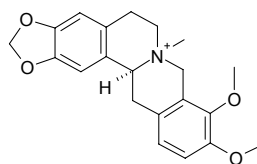
$C_9H_7N_3O_3$ (205.17). **Source:** LI XING MA BO *Lycoperdon pyriforme*. **Ref:** 1308.

**14208 Methylcamaralate**

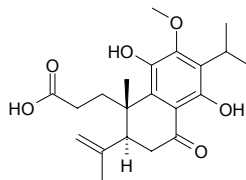
Methyl 22β-acetoxy-3,25-epoxy-3α-hydroxy-urs-12-en-28-oate $C_{33}H_{50}O_6$ (542.76). Amorphous powder, $[\alpha]_D = +171^\circ$ ($c = 0.12$, $CHCl_3$). **Source:** WU SE MEI *Lantana camara* (aerial parts). **Ref:** 4309.

**14209 N-Methyl canadine**

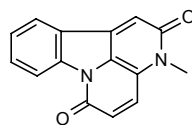
$C_{21}H_{24}NO_4$ (354.43). **Source:** DUAN CI HUA JIAO *Zanthoxylum brachyacanthum*, DU HUA JIAO *Zanthoxylum veneficium*, ZHI LI JIAO HUI XIANG *Hypecoum erectum*. **Ref:** 1512, 1521.

**14210 12-O-Methylcandesalvone B**

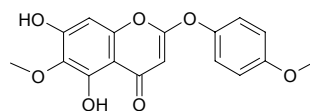
$C_{21}H_{28}O_6$ (376.45). Pale-yellow solid, $[\alpha]_D^{24.5} = +45^\circ$ ($c = 0.08$, $CHCl_3$). **Pharm:** Antioxidant (enzyme-independent lipid peroxidation, $IC_{50} = 13.40\mu mol/L$, Rosmarinic acid, $IC_{50} = 4.40\mu mol/L$; enzyme-dependent lipid peroxidation, $IC_{50} = 10.42\mu mol/L$, Rosmarinic acid, $IC_{50} = 0.39\mu mol/L$)^[5494]. **Source:** ZHU TAI SHU WEI CAO *Salvia candelebrum* (aerial parts). **Ref:** 5376, 5494.

**14211 3-Methyl-canthin-2,6-dione**

$C_{15}H_{10}N_2O_2$ (250.26). Orange-red needles, mp > 330°C. **Source:** KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. **Ref:** 12.

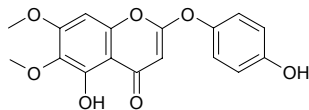
**14212 4'-Methylcapillarisin**

$C_{17}H_{14}O_7$ (330.30). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

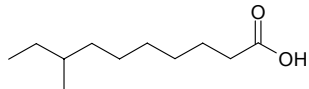


14213 7-Methylcapillarisin

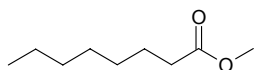
$C_{17}H_{14}O_7$ (330.30). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**14214 8-Methyl capric acid**

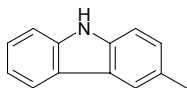
$C_{11}H_{22}O_2$ (186.30). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**14215 Methyl caprylate**

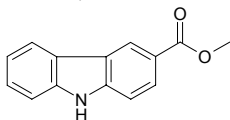
Octanoic acid methyl ester [111-11-5] $C_9H_{18}O_2$ (158.24). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

**14216 3-Methylcarbazole**

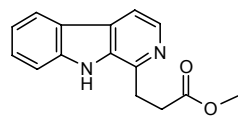
3-Methyl-9H-carbazole [4630-20-0] $C_{13}H_{11}N$ (181.24). Plates (CH_2Cl_2 /hexane), mp 206~208°C. Pharm: Anti-tuberculosis (MIC = $(14.3 \pm 0.9) \mu\text{g/mL}$, control Rifampine, MIC = $(0.040 \pm 0.017) \mu\text{g/mL}$; cytotoxic, Vero, $IC_{50} > 102 \mu\text{g/mL}$, Rifampine, $IC_{50} = 100 \mu\text{g/mL}$)^[5072]. Source: QI YE HUANG PI *Clausena heptaphylla*, SHAN HUANG PI *Clausena excavata*, YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 703, 1521, 5072.

**14217 Methyl carbazole-3-carboxylate**

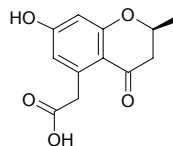
3-Methoxycarbonylcarbazole $C_{14}H_{11}NO_2$ (225.25). Pharm: Antitubercular (MIC $> 128 \mu\text{g/mL}$; control Rifampin, MIC = $(0.040 \pm 0.017) \mu\text{g/mL}$)^[5072]; cytotoxic (Vero, $IC_{50} > 102 \mu\text{g/mL}$; control Rifampin, $IC_{50} = 100 \mu\text{g/mL}$)^[5072]; antibacterial (*Mycobacterium tuberculosis*, MIC = $50 \mu\text{g/mL}$, control Isoniazide, MIC = $0.040\text{--}0.090 \mu\text{g/mL}$, kanamycin sulfate, MIC = $2.0\text{--}5.0 \mu\text{g/mL}$)^[5367]; antifungal (*Candida albicans*, $IC_{50} = 9.5 \mu\text{g/mL}$; control Amphotericin, $IC_{50} = 0.01 \mu\text{g/mL}$)^[5367]. Source: SHAN HUANG PI *Clausena excavata*, YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 5072, 5367.

**14218 Methyl-3-(β-carboline-1-yl) propionate**

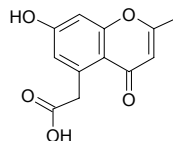
Infracine [91147-07-8] $C_{15}H_{14}N_2O_2$ (254.29). Crystals (toluene), mp 145~146°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**14219 2-Methyl-5-carboxymethyl-7-hydroxychromanone**

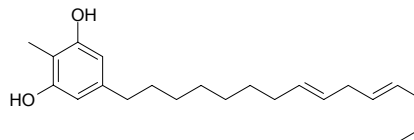
$C_{12}H_{12}O_5$ (236.23). Source: DA HUANG *Rheum officinale*. Ref: 1437.

**14220 2-Methyl-5-carboxymethyl-7-hydroxychromone**

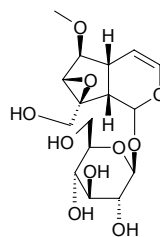
$C_{12}H_{10}O_5$ (234.21). Source: DA HUANG *Rheum officinale*. Ref: 1437.

**14221 2-Methylcardol**

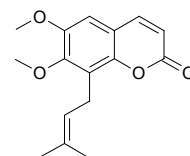
$C_{22}H_{34}O_2$ (330.52). Source: ZI JIN NIU *Ardisia japonica*. Ref: 1355.

**14222 6-O-Methyl catalpol**

$C_{16}H_{24}O_{10}$ (376.36). Crystals (H_2O), mp 236~238°C, $[\alpha]_D^{22.5} = -122^\circ$ ($c = 1.64$, 90% EtOH). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 32.5 \mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033 \mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90 \mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70 \mu\text{g/mL}$)^[5251]; antileishmanial (*Leishmania donovani*, $IC_{50} = 8.3 \mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32 \mu\text{g/mL}$)^[5251]; antimalarial (*Plasmodium falciparum*, $IC_{50} > 50 \mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002 \mu\text{g/mL}$)^[5251]; cytotoxic (L6 cells, $IC_{50} > 90 \mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075 \mu\text{g/mL}$)^[5251]. Source: LIN PIAN XUAN SHEN *Scrophularia lepidota* (root), QIU HUA ZUI YU CAO *Buddleja globosa*, XUAN SHEN *Scrophularia ningpoensis*. Ref: 1376, 1521, 5251.

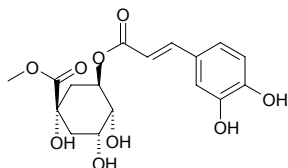
**14223 Methyl-O-cedrelopsin**

$C_{16}H_8O_4$ (274.32). Source: *Cedrelopsis grevei* (trunk bark). Ref: 5368.

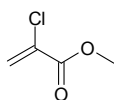


14224 Methyl chlorogenate

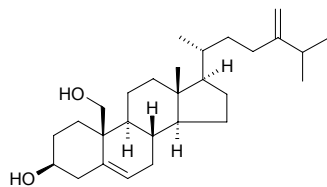
5-*O*-Caffeoylquinic acid methyl ester C₁₇H₂₀O₉ (368.34). **Pharm:** Aldose reductase inhibitor (IC₅₀ = 1.3 μmol/L, control Epalrestat, IC₅₀ = 0.072 μmol/L)^[4530]. **Source:** DU ZHONG *Eucommia ulmoides*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.085% dw)^[4723], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 1209, 4530, 4723.

**14225 Methyl 2-chloropropenoate**

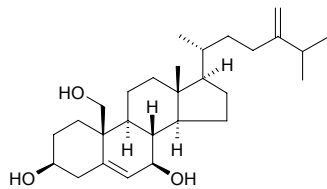
C₄H₅ClO₂ (120.54). **Source:** BAN XIA *Pinellia ternata*. **Ref:** 1401.

**14226 24-Methylcholesta-5,24(28)-diene-3β,19-diol**

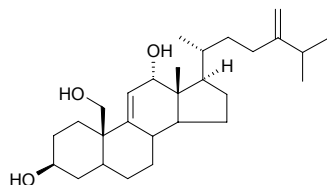
C₂₈H₄₆O₂ (414.68). **Pharm:** Cytotoxic inactive (hmn prostate cancer LNCaP cell line, EC₅₀ = 56.7 μg/mL). **Source:** *Nephthea chabroli*. **Ref:** 4375.

**14227 24-Methylcholesta-5,24(28)-diene-3β,7β,19-triol**

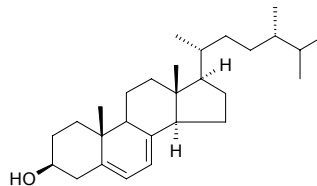
C₂₈H₄₆O₃ (430.68). **Pharm:** Cytotoxic inactive (hmn prostate cancer LNCaP cell line, EC₅₀ = 4.9 μg/mL). **Source:** *Nephthea chabroli*. **Ref:** 4375.

**14228 24-Methylcholesta-9(11),24(28)-diene-3β,12α,19-triol**

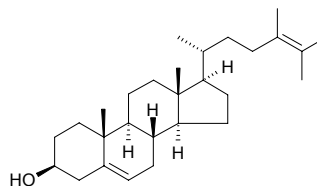
C₂₈H₄₆O₃ (430.68). Colorless solid, mp 163–164°C, [α]_D²⁵ = -141.9° (c = 0.031, MeOH). **Pharm:** Cytotoxic inactive (hmn prostate cancer LNCaP cell line, EC₅₀ = 23.4 μg/mL). **Source:** *Nephthea chabroli*. **Ref:** 4375.

**14229 24-Methylcholesta-5,7-dien-3β-ol‡**

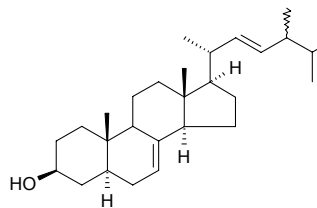
Ergosta-5,7-dien-3-ol; 22,23-Dihydroergosterol; Provitamin D₄ [516-79-0] C₂₈H₄₆O (398.68). Crystals + 1 H₂O (EtOAc/MeOH), mp 152–153°C, [α]_D = -128.7° (c = 0.4, CHCl₃). **Source:** CAO GU *Volvariella volvacea*, E CHANG CAI *Endarachne binghamiae*, PU⁽²⁾ TAO *Vitis vinifera* (seed oil). **Ref:** 1502, 1521. ‡Note: see compound 3039.

**14230 24-Methylcholesta-5,24-dien-3β-ol**

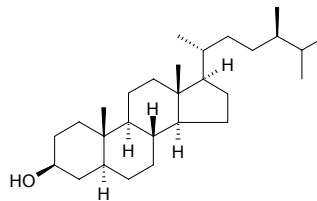
[20780-41-0] C₂₈H₄₆O (398.68). Crystals (MeOH), mp 141.5–142.5°C, [α]_D = -46.7° (CHCl₃). **Source:** CUI MIAN SHUI QIE *Withania somnifera*, GOU QI ZI *Lycium chinense*. **Ref:** 1371, 1521.

**14231 24-Methylcholesta-7,22-dien-3β-ol**

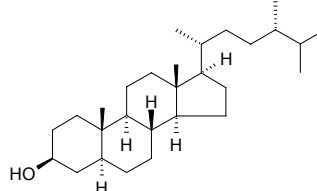
C₂₈H₄₆O (398.68). 24S: mp 173.5–174°C, 24R: mp 159.5–161°C. **Source:** LING ZHI *Ganoderma lucidum*, SHU SHE *Ganoderma applanatum*. **Ref:** 1407, 1521.

**14232 (24R)-Methyl cholestanol**

C₂₈H₅₀O (402.71). **Source:** SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. **Ref:** 1399.

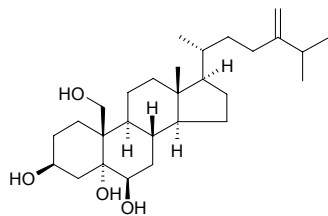
**14233 (24S)-Methyl cholestanol**

C₂₈H₅₀O (402.71). mp 144–145°C. **Source:** JIN ZHAN JU *Calendula officinalis*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. **Ref:** 1399, 1521.

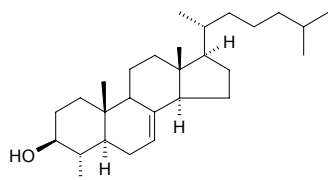


14234 24-Methylcholest-24(28)-ene-3 β ,5 α ,6 β ,19-tetraol

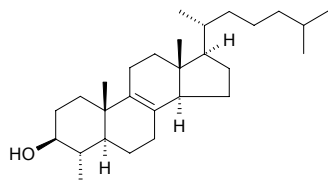
$C_{28}H_{48}O_4$ (448.69). **Pharm:** Cytotoxic (hmn prostate cancer LNCaP cell line, $EC_{50} = 7.4\mu\text{g/mL}$). **Source:** *Nephthea chabroli*. **Ref:** 4375.

**14235 4 α -Methyl-cholest-7-en-3 β -ol**

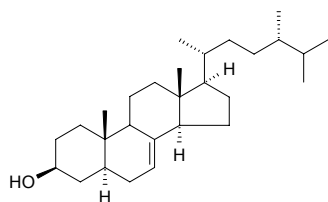
Lophenol [481-25-4] $C_{28}H_{48}O$ (400.69). mp 149~151°C, $[\alpha]_D = +5^\circ$ (CHCl_3). **Source:** AI QIE *Solanum demissum*, DUO ZU JUE *Polypodium vulgare*, JIAN YE LONG XUE SHU *Dracaena cochinchinensis*, MA LING SHU *Solanum tuberosum* (leaf). **Ref:** 616, 1415, 1521.

**14236 4 α -Methyl-cholest-8-en-3 β -ol**

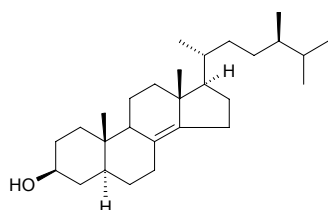
[5241-22-5] $C_{28}H_{48}O$ (400.69). **Source:** GOU QI ZI *Lycium chinense*. **Ref:** 1371, 1372, 1373, 1374.

**14237 (24S)-Methylcholest-7-en-3 β -ol**

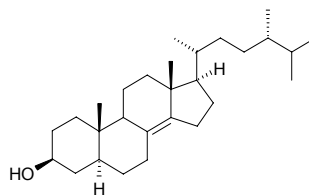
24-Methyl lathosterol [516-78-9] $C_{28}H_{48}O$ (400.69). **Source:** HUANG GUA *Cucumis sativus*, LING ZHI *Ganoderma lucidum*, CAO GU *Volvariella volvacea*. **Ref:** 1345, 1407, 1502.

**14238 (24R)-Methyl cholest-8(14)-enol**

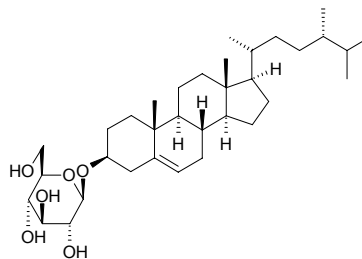
$C_{28}H_{48}O$ (400.69). **Source:** SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. **Ref:** 1399.

**14239 (24S)-Methyl cholest-8(14)-enol**

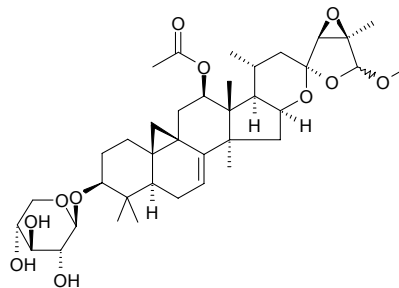
[632-32-6] $C_{28}H_{48}O$ (400.69). mp 130~131°C. **Source:** SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. **Ref:** 1399.

**14240 24-Methylcholest-5-enyl-3 β -O-glucopyranoside**

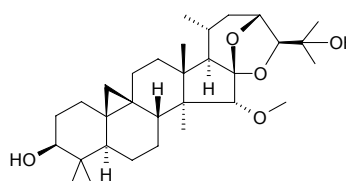
$C_{34}H_{58}O_6$ (562.84). **Source:** QIAN SHI GEN *Euryale ferox*. **Ref:** 1509.

**14241 Methylcimicifugoside**

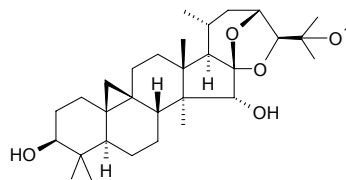
$C_{38}H_{56}O_{11}$ (688.86). **Source:** YE SHENG MA *Cimicifuga simplex*. **Ref:** 6.

**14242 15-O-Methylcimigenol**

[24399-56-2] $C_{31}H_{50}O_5$ (502.74). Crystals, mp 199.5~200.5°C, $[\alpha]_D = +38.9^\circ$ (CHCl_3). **Source:** SAN MIAN DAO *Cimicifuga acerina*. **Ref:** 6, 1521.

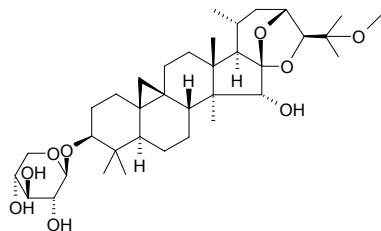
**14243 25-O-Methylcimigenol**

[20528-90-9] $C_{31}H_{50}O_5$ (502.74). Crystals, mp 218~219°C, $[\alpha]_D = +39.25^\circ$ (CHCl_3). **Source:** SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*. **Ref:** 1521, 2215.

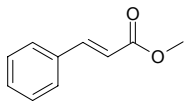


14244 25-O-Methylcimigenoside

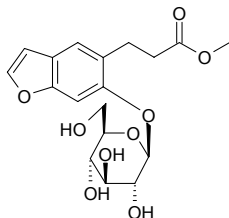
[27994-13-4] C₃₆H₅₈O₉ (634.86). Crystals, mp 268~270°C. Source: RI BEN SHENG MA *Cimicifuga japonica*, SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*. Ref: 6, 1521.

**14245 Methylcinnamate**

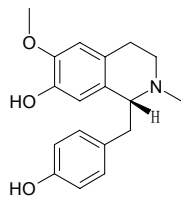
[103-26-4] C₁₀H₁₀O₂ (162.19). mp 36.5°C, bp 261°C/750mmHg. Source: DA CAO KOU *Alpinia speciosa*, DA LIANG JIANG *Alpinia galanga*, GAO LIANG JIANG *Alpinia officinarum*, LUO LE *Ocimum basilicum*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*]. Ref: 6.

**14246 Methylnidioside A**

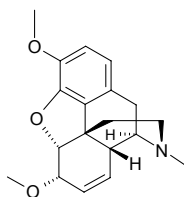
C₁₈H₂₂O₉ (382.37). Glassy powder, mp 146~147°C, [α]_D²⁵ = -46.87° (c = 0.32, MeOH). Source: CHOU CAO *Ruta graveolens* (dried aerial parts). Ref: 3073.

**14247 D-N-Methyl coclaurine**

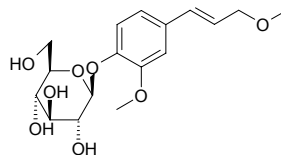
C₁₈H₂₁NO₃ (299.37). mp 94.5~95.0°C. Source: HE YE *Nelumbo nucifera*, HENG ZHOU WU YAO *Cocculus laurifolius*. Ref: 6.

**14248 6-Methylcodeine**

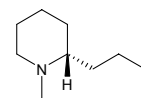
C₁₉H₂₃NO₃ (313.40). Source: YA PIAN *Papaver somniferum*. Ref: 6.

**14249 Methylconiferin**

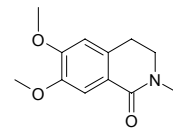
3'-O-Methylconiferin C₁₇H₂₄O₈ (356.38). White acicular crystals, mp 167~169°C, [α]_D²¹ = -69.5° (c = 0.1, H₂O). Source: TONG QIAO SHE GU *Balanophora involucrata*. Ref: 490.

**14250 (+)-N-Methylconiine**

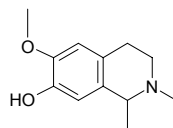
C₉H₁₉N (141.26). Pharm: Toxin. Source: DU SHEN *Conium maculatum*. Ref: 658.

**14251 N-Methylcorydaldine**

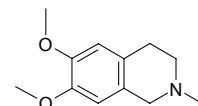
C₁₂H₁₃NO₃ (221.26). Source: BIAN FU GE GEN *Menispermum dauricum*, DA HONG YING SU *Papaver bracteatum*, FEN SHI TANG SONG CAO *Thalictrum fendleri*, LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*], *Papaver urbanianum*. Ref: 1521, 3792.

**14252 1-Methyl-corypalline**

1,2,3,4-Tetrahydro-6-methoxy-7-hydroxy-1,2-dimethylisoquinoline C₁₂H₁₇NO₂ (207.27). Source: LIAN ZI XIN *Nelumbo nucifera*, DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*]. Ref: 1478, 1479.

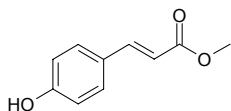
**14253 O-Methyl-corypalline**

1,2,3,4 Tetrahydro-6,7-dimethoxy-2-methylisoquinoline [16620-96-5] C₁₂H₁₇NO₂ (207.27). Source: LIAN ZI XIN *Nelumbo nucifera*. Ref: 6.

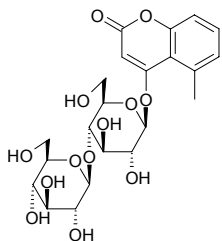


14254 trans-Methyl p-coumarate

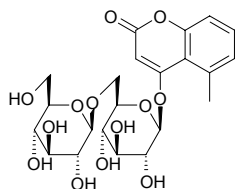
Methyl-*p*-hydroxycinnamate [3943-97-3] C₁₀H₁₀O₃ (178.19). Colorless acicular crystals, mp 216~220°C (Me₂CO). **Pharm:** Cytotoxic (P₃₈₈ cell line, ED₅₀ = 10.5 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 8.9 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 15.1 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL)^[5405]; cytotoxic (Colon26-L5, ED₅₀ = 84.2 μmol/L; HT1080, ED₅₀ > 100 μmol/L)^[3042]; cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]; phytoalexin^[4727]. **Source:** HUANG GUA *Cucumis sativus* (leaf)^[4727], JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*], KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SHAN HUANG PI *Clausena excavata*, SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00017%dw)^[4722], YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00076%^[3042]), ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. **Ref:** 663, 703, 2529, 3042, 3069, 4502, 4676, 4722, 4727, 5405.

**14255 5-Methylcoumarin-4-cellobioside**

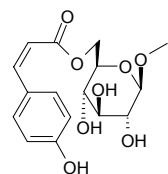
[109974-31-4] C₂₂H₂₈O₁₃ (500.46). Acicular crystals, mp 217~219°C, [α]_D²¹ = -94° (c = 0.515, methanol). **Pharm:** Antibacterial (*Bacillus coli* and *Staphylococcus aureus*, EC = 500 μg/mL). **Source:** DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. **Ref:** 77, 921.

**14256 5-Methylcoumarin-4-gentiobioside**

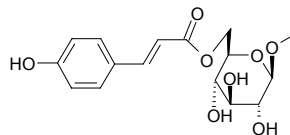
[109974-32-5] C₂₂H₂₈O₁₃ (500.46). Acicular crystals, mp 155~157°C, [α]_D²¹ = -80° (c = 0.902, methanol). **Pharm:** Antibacterial (*Staphylococcus aureus*, 500 μg/mL). **Source:** DA DING CAO *Gerbera anandria* [Syn. *Leibnitzia anandria*]. **Ref:** 77.

**14257 Methyl 6-O-p-cis-coumaroyl-β-D-glucopyranoside**

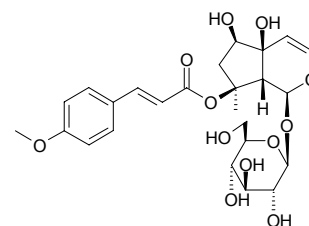
C₁₆H₂₀O₈ (340.33). **Source:** LV DOU *Onobrychis viciifolia* (leaf). **Ref:** 5084.

**14258 Methyl 6-O-p-trans-coumaroyl-β-D-glucopyranoside**

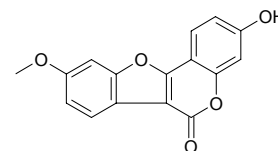
C₁₆H₂₀O₈ (340.33). **Source:** LV DOU *Onobrychis viciifolia* (leaf). **Ref:** 5084.

**14259 8-(O-Methyl-p-coumaroyl)harpagide**

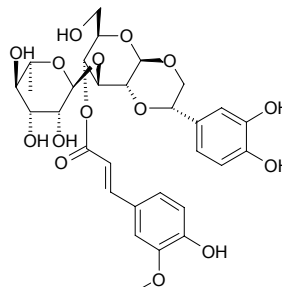
C₂₅H₃₂O₁₂ (524.53). **Source:** BEI XUAN SHEN *Scrophularia buergeriana*. **Ref:** 1377.

**14260 12-O-Methylcoumestrol**

C₁₆H₁₀O₅ (282.2). **Source:** HUI HUI DOU *Cicer arietinum*. **Ref:** 6.

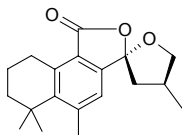
**14261 3'''-O-Methylcrenatoside**

3'-Methyl crenatoside; 1,2-*O*-[2*S*-(3,4-Dihydroxyphenyl)-1,2-ethanediyl]-3-*O*-*α*-*L*-rhamnopyranosyl-4-*O*-feruloyl-β-*D*-glucopyranoside C₃₀H₃₆O₁₅ (636.61). White amorphous powder, mp 224~226°C, [α]_D²⁰ = -53.2° (c = 0.37, MeOH); [α]_D²⁶ = -23° (c = 0.44, MeOH). **Pharm:** Antioxidant (relative potency = 1.4, compared with resveratrol, relative potency = 1)^[4920]; antiviral inactive (Vero cell lines infected with HSV-2 strain 333, 250 μg/mL)^[4752]; ACE inhibitor (1.0 mg/mL, InRt = 99.8%; 0.1 mg/mL, InRt = 67.5%; 0.01 mg/mL, InRt = 32.5%; control Captopril, 0.01 mg/mL, InRt = 97.7%)^[4752]. **Source:** LIE DANG *Orobanche coerulescens* (whole herb), NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.0014%dw). **Ref:** 4752, 4920.

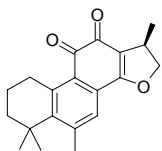


14262 6-Methylcryptoacetalide

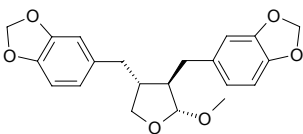
$C_{19}H_{24}O_3$ (300.40). Source: AI JI SHU WEI CAO *Salvia aegyptiaca*. Ref: 1919.

**14263 6-Methylcryptotanshinone**

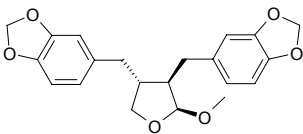
14,16-Epoxy-6-methyl-5(10),6,8,13-abietatetraene-11,12-dione $C_{20}H_{22}O_3$ (310.40). Source: AI JI SHU WEI CAO *Salvia aegyptiaca*. Ref: 1919.

**14264 α -O-Methylcubebin**

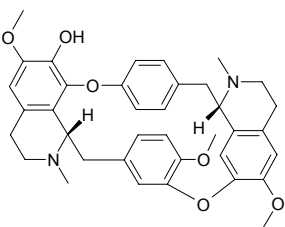
$C_{21}H_{22}O_6$ (370.41). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 7.7 \mu\text{mol/L}$; CYP2D6, $IC_{50} > 100 \mu\text{mol/L}$; control Ketoconazole, CYP3A4, $IC_{50} = 0.72 \mu\text{mol/L}$; control Quinidine, CYP2D6, $IC_{50} = 0.082 \mu\text{mol/L}$)^[4797]. Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00012%dw), QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.0001%dw). Ref: 4783, 4797.

**14265 β -O-Methylcubebin**

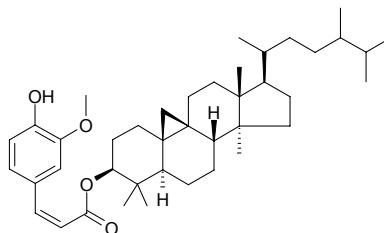
$C_{21}H_{22}O_6$ (370.41). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts: yield = 0.000055%dw). Ref: 4783.

**14266 (+)-4''-O-Methylcurine**

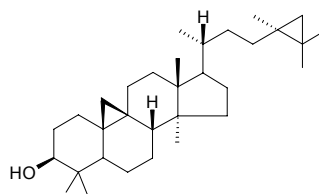
$C_{37}H_{40}N_2O_6$ (608.74). mp 164°C. Source: XI SHENG TENG *Cissampelos pareira*. Ref: 6.

**14267 24-Methylcycloartanol ferulate**

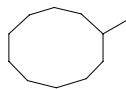
$C_{41}H_{62}O_4$ (618.95). Source: MI PI KANG *Oryza sativa*. Ref: 6.

**14268 (24S)-24-Methyl-25,32-cyclo-cycloartane-3 β -ol**

$C_{32}H_{54}O$ (454.79). Amorphous powder, $[\alpha]_D^{20} = +38.8^\circ$ ($c = 0.54$, CHCl_3). Source: *Pandanus boninensis* (leaf). Ref: 5333.

**14269 Methyl cyclodecane**

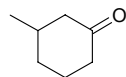
$C_{11}H_{22}$ (154.30). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**14270 Methylcyclohexane**

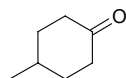
Hexahydrodoluene [108-87-2] C_7H_{14} (98.19). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**14271 3-Methylcyclohexanone**

[591-24-2] $C_7H_{12}O$ (112.17). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2.

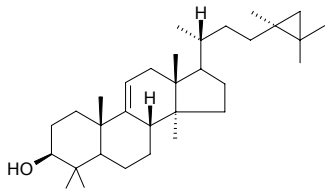
**14272 4-Methylcyclohexanone**

[589-92-4] $C_7H_{12}O$ (112.17). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

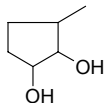


14273 (24S)-24-Methyl-25,32-cyclo-5 α -lanosta-9(11)-en-3 β -ol

C₃₂H₅₄O (454.79). Colorless fine crystals, mp 211~212°C (MeOH), [α]_D²⁰ = +69.6° (c = 1.00, CHCl₃). Source: *Pandanus boninensis* (leaf). Ref: 5333.

**14274 3-Methyl-1,2-cyclopentenediol**

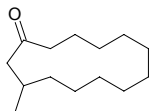
[27583-37-5] C₆H₁₂O₂ (116.16). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**14275 2-Methylcyclopentanone**

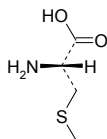
[1120-72-5] C₆H₁₀O (98.15). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**14276 3-Methylcyclotridecan-1-one**

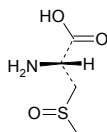
C₁₄H₂₆O (210.36). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2.

**14277 S-Methyl cysteine**

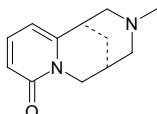
C₄H₉NO₂S (135.19). Source: YANG CONG *Allium cepa*. Ref: 1469.

**14278 S-Methyl-L-cysteine sulfoxide**

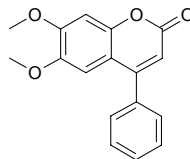
C₄H₉NO₃S (151.19). mp (+) 164°C (dec). Source: DA SUAN *Allium sativum*, YANG CONG *Allium cepa*. Ref: 6, 1470.

**14279 N-Methylcytisine**

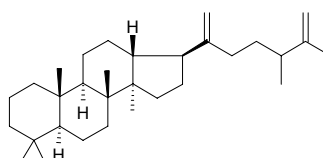
(-)-N-Methylcytisine; Caulophyllin; (1R)-1,2,3,4,5,6-Hexahydro-3-methyl-1,5-methano-8H-pyrido[1,2-a][1,5]diazocin-8-one [486-86-2] C₁₂H₁₆N₂O (204.27). mp (-) 137°C. Pharm: Molluscicide (toxic to snails). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], LIAN HUA JIN QUE *Cytisus laburnum*, YING ZHAO DOU *Spartium junceum*. Ref: 2, 658.

**14280 O-Methyldalbergin**

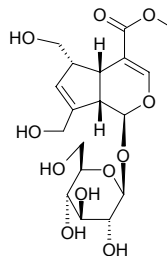
C₁₇H₁₄O₄ (282.30). mp 145~146°C. Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 6.

**14281 21-Methyldammara-18(28),22(29)-diene**

C₃₁H₅₂ (424.76). Source: XING JUE *Microsorium punctatum*. Ref: 1506.

**14282 6-O-Methyldeacetylasperulosidic acid methyl ester**

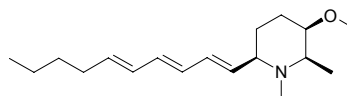
C₁₈H₂₆O₁₁ (418.40). Amorphous powder, [α]_D²⁵ = +49.0° (c = 1.09, MeOH), artifact. Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (leaf). Ref: 4408.

**14283 Methyl(2E,8Z)-decadien-4,6-dienoate**

C₁₁H₁₆O₂ (174.20). Source: YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*]. Ref: 1281.

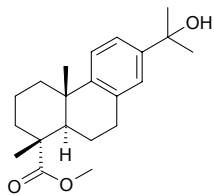
**14284 N-Methyl-6 β -(deca-1',3',5'-trienyl)-3 β -methoxy-2 β -methylpiperidine**

C₁₈H₃₁NO (277.45). mp 52~53°C, [α]_D²² = +29.2°. Pharm: Insecticidal (*Aedes aegypti* second instar larvae, MC₅₀ = 1.0mg/L, LC₅₀ = 2.1mg/L at 24h). Source: PO BU YE *Microcos paniculata* [Syn. *Grewia microcos*] (stem cortex). Ref: 3948.

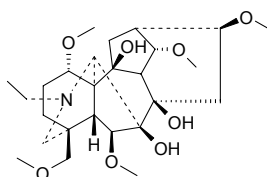


14285 Methyl dehydro-15-hydroxy-abietan-18-oate

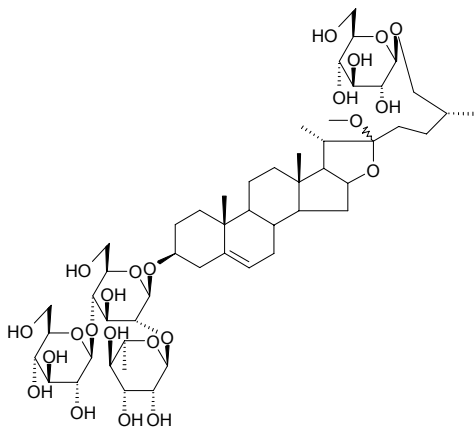
$C_{21}H_{30}O_3$ (330.47). Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

**14286 18-O-Methyldeleterine**

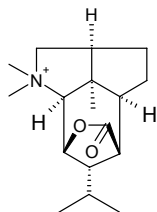
$C_{26}H_{43}NO_8$ (497.63). Source: GAO DA CUI QUE HUA *Delphinium excelsum*. Ref: 2055.

**14287 Methyl deltoside**

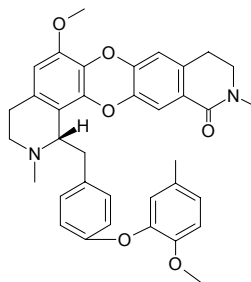
$C_{52}H_{86}O_{23}$ (1079.25). White powder, mp 220~224°C, $[\alpha]_D^{26.6} = -64.44^\circ$ ($c = 0.225$, pyridine). Source: XIAO HUA DUN YE SHU YU *Dioscorea parviflora* (fresh rhizome). Ref: 4858.

**14288 N-Methyldendrobium**

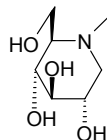
N-Methyldendrobine $C_{17}H_{28}NO_2^+$ (278.42). Source: SHI HU⁽⁴⁾ *Dendrobium nobile*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. Ref: 6, 1521.

**14289 O-Methyldeoxopunjabine**

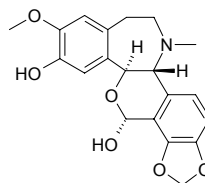
[89503-80-8] $C_{36}H_{36}N_2O_6$ (592.70). Source: TAI WAN QIAN JIN TENG *Stephania sasakii*. Ref: 1314.

**14290 N-Methyl-1-deoxynojirimycin**

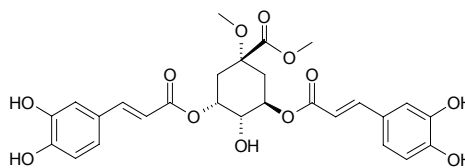
[69567-10-8] $C_7H_{15}NO_4$ (177.20). Pharm: Hypoglycemic (mus diabetes mellitus induced by SIZ, distinct effect). Source: SANG ZHI *Morus alba*. Ref: 2170.

**14291 N-Methyl-14-O-desmethyl-epiporphyroxine**

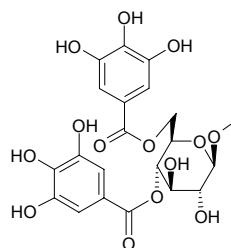
$C_{20}H_{21}NO_6$ (371.39). Source: YA PIAN *Papaver somniferum*. Ref: 6.

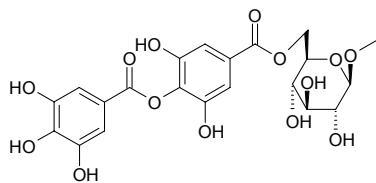
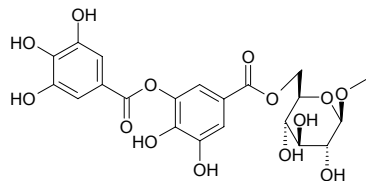
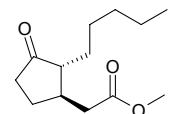
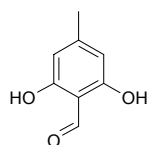
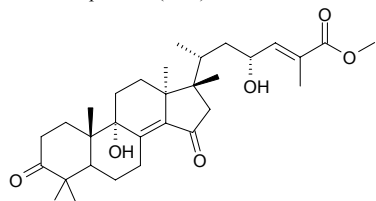
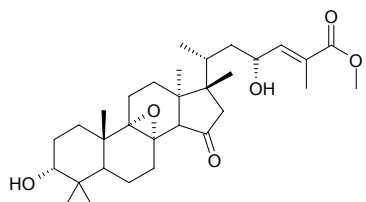
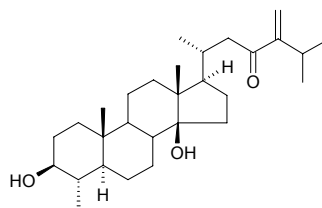
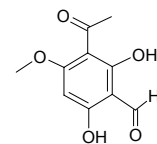
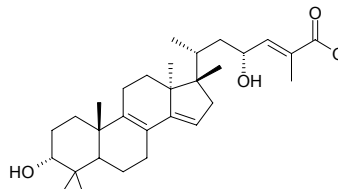
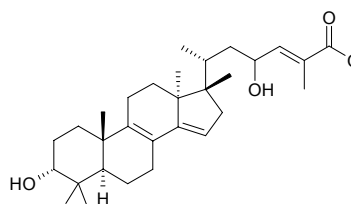
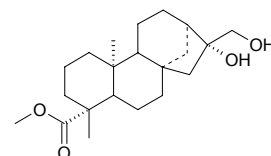
**14292 1-O-Methyl-3,5-O-dicaffeoyl quinic acid methyl ester**

$C_{27}H_{28}O_{12}$ (544.52). Yellowish powder, mp 132~134°C, $[\alpha]_D^{20} = -34.7^\circ$ (MeOH). Source: DENG ZHAN XI XIN *Erigeron breviscapus*. Ref: 875, 2083.

**14293 Methyl 4,6-di-O-galloyl-β-D-glucopyranoside**

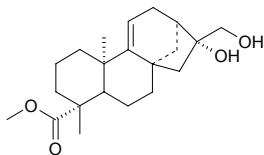
$C_{21}H_{22}O_{14}$ (498.40). Source: DI YU *Sanguisorba officinalis*. Ref: 1327.



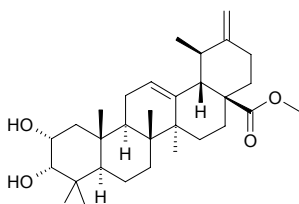
14294 Methyl 6-O-digalloyl-β-D-glucopyranoside IC₂₁H₂₂O₁₄ (498.40). Source: DI YU *Sanguisorba officinalis*. Ref: 1327.**14295 Methyl 6-O-digalloyl-β-D-glucopyranoside II**C₂₁H₂₂O₁₄ (498.40). Source: DI YU *Sanguisorba officinalis*. Ref: 1327.**14296 Methyl dihydrojasmonate**[2630-39-9] C₁₃H₂₂O₃ (226.32). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 1360.**14297 4-Methyl-2,6-dihydroxy-benzaldehyde**C₈H₈O₃ (152.15). Yellow needles. Source: JIN SI SHUA *Lethariella cladonioides*. Ref: 4582.**14298 Methyl (24E)-9α,23α-dihydroxy-3,15-dioxo-17,15-friedo-lanostan-8(14),24-dien-26-oate**C₃₁H₄₆O₆ (514.71). Yellowish gum. Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 4790.**14299 Methyl (24E)-3α,23α-dihydroxy-8α,9α-epoxy-15-oxo-17,14-friedo-lanostan-24-en-26-oate**C₃₁H₄₈O₆ (516.72). Gum, [α]_D²⁵ = -3° (c = 0.018, CHCl₃). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.**14300 4α-Methyl-3β,14β-dihydroxy-5α-ergost-24(28)-en-23-one**C₂₉H₄₈O₃ (444.70). White solid, mp 150~151°C, [α]_D²⁵ = +66.2° (c = 0.09, MeOH). Pharm: Cytotoxic inactive (hmn prostate cancer LNCaP cell line, EC₅₀ = 38.4 μg/mL). Source: *Nephthea chabroli*. Ref: 4375.**14301 Methyl(2,4-dihydroxy-3-formyl-6-methoxy)phenylketone**C₁₀H₁₀O₅ (210.19). Source: GAN SUI *Euphorbia kansui*. Ref: 1303.**14302 Methyl (24E)-3α,23α(=R)-dihydroxy-17,14-friedo-lanostan-8,14,24-trien-26-oate**C₃₁H₄₈O₄ (484.73). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.**14303 Methyl (24E)-3α,23-dihydroxy-17,14-friedolanstan-8,14,24-trien-26-oate**C₃₁H₄₈O₄ (484.73). White powder, mp 112~113°C, [α]_D²⁹ = -35° (c = 0.28, MeOH). Source: SHAN FENG GUO *Garcinia hombroniana* (pericarp). Ref: 5085.**14304 Methyl 16α,17-dihydroxy-ent-kauran-19-oate**C₂₁H₃₄O₄ (350.50). Pharm: Antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 39.5 μg/mL; K562, GI₅₀ = 27.7 μg/mL; HeLa, CC₅₀ = 40.5 μg/mL; control Paclitaxel, L-929, GI₅₀ = 0.1 μg/mL; K562, GI₅₀ = 0.01 μg/mL; HeLa, CC₅₀ = 0.01 μg/mL). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00019%). Ref: 4770.

14305 Methyl 16 α ,17-dihydroxy-ent-9(11)-kauren-19-oate

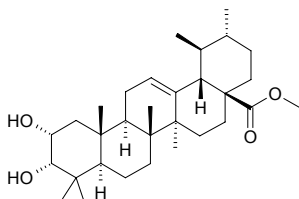
$C_{21}H_{32}O_4$ (348.49). **Pharm:** Antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 41.9 \mu\text{g/mL}$; K562, $GI_{50} = 26.7 \mu\text{g/mL}$; HeLa, $CC_{50} = 38.7 \mu\text{g/mL}$; control Paclitaxel, L-929, $GI_{50} = 0.1 \mu\text{g/mL}$; K562, $GI_{50} = 0.01 \mu\text{g/mL}$; HeLa, $CC_{50} = 0.01 \mu\text{g/mL}$). **Source:** MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem: yield = 0.00046%). **Ref:** 4770.

**14306 Methyl 2 α ,3 α -dihydroxyursa-12,20(30)-dien-28-oate**

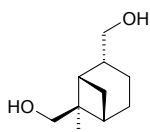
$C_{31}H_{48}O_4$ (484.73). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.

**14307 Methyl 2 α ,3 α -dihydroxyursa-12-en-28-oate**

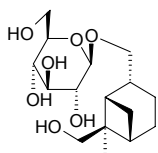
$C_{31}H_{50}O_4$ (486.74). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.

**14308 6 α -Methyl-2 α ,6 β -dihydroxymethylbicyclo[3.1.1]heptane**

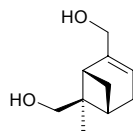
$C_{10}H_{18}O_2$ (170.25). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 1433.

**14309 6 α -Methyl-2 α ,6 β -dihydroxymethylbicyclo[3.1.1]heptane-2 α -O-glucoside**

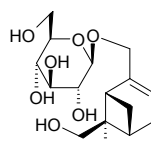
$C_{16}H_{28}O_7$ (332.40). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 1433.

**14310 6 α -Methyl-2,6 β -dihydroxymethylbicyclo[3.1.1]hept-2-ene**

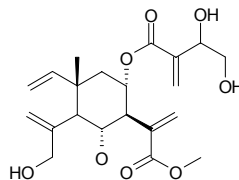
$C_{10}H_{16}O_2$ (168.24). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 1433.

**14311 6 α -Methyl-2,6 β -dihydroxymethylbicyclo[3.1.1]hept-2-ene-2 β -O-glucoside**

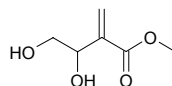
$C_{16}H_{26}O_7$ (330.38). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 1433.

**14312 Methyl 8 α -(3,4-dihydroxy-2-methylene-butanoyloxy)-6 α ,15-dihydroxyelema-1,3,11(13)-trien-12-oate**

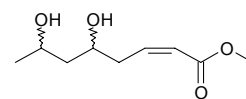
$C_{21}H_{30}O_8$ (410.47). **Source:** *Centaurea thessala* ssp. *drakiensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). **Ref:** 5115.

**14313 Methyl β , γ -dihydroxy- α -methylene butylate**

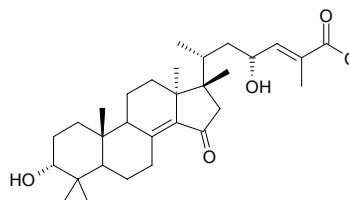
$C_6H_{10}O_4$ (146.14). **Source:** XIAO YE HUA *Spiraea prunifolia*. **Ref:** 6.

**14314 Methyl-5,7-dihydroxy-2(Z)-octenoate**

$C_9H_{16}O_4$ (188.23). **Source:** YE YA CHUN *Euscaphis japonica*. **Ref:** 2204.

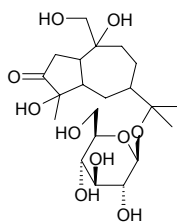
**14315 Methyl (24E)-3 α ,23 α -dihydroxy-15-oxo-17,14-friedo-lanostan-8(14),24-dien-26-oate**

$C_{31}H_{48}O_5$ (500.73). Gum, $[\alpha]_D^{28} = -34^\circ$ ($c = 0.021$, CHCl_3). **Source:** MEI LI TENG HUANG *Garcinia speciosa* (bark). **Ref:** 3762.



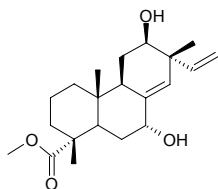
14316 2-(8-Methyl-2,8-dihydroxy-9-oxo-2-hydroxymethylbicyclo[5.3.0]decan-7-yl)isopropanol glucoside

$C_{21}H_{36}O_{10}$ (448.52). Source: CANG ZHU *Atractylodes lancea*. Ref: 660.



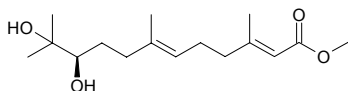
14317 Methyl 7 α ,12 β -dihydroxysandaracopimarate

$C_{21}H_{32}O_4$ (348.49). Colorless oil, $[\alpha]_D = +14.3^\circ$ ($c = 1.2$, $CHCl_3$). Source: FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). Ref: 3851.



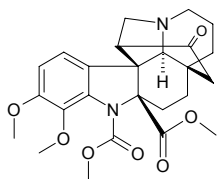
14318 Methyl (2E,6E,10R)-10,11-dihydroxy-3,7,11-trimethyl-2,6-dodecadienoate

$C_{16}H_{28}O_4$ (284.40). Colorless oil, $[\alpha]_D = +8^\circ$ ($c = 1.3$), $[\alpha]_D = +18.9^\circ$ ($c = 0.1$, MeOH). Source: *Lettowianthus stellatus* (root cortex). Ref: 3944.



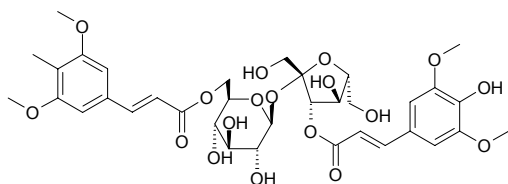
14319 Methyl 11,12-dimethoxychanofrucosinate

$C_{25}H_{30}N_2O_7$ (470.53). Source: HUANG HONG SE RUI MU *Kopsia flavida* (leaf). Ref: 5157.



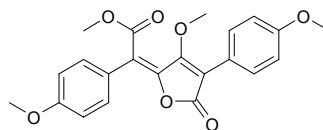
14320 α -D-(6-O-4-Methyl-3,5-dimethoxycinnamoyl)-glucopyranosyl-(1 \rightarrow 2)- β -D-(3-O-sinapoyl)-fructofuranose

$C_{35}H_{44}O_{18}$ (752.73). Yellowish amorphous powder (MeOH). Source: YUAN ZHI *Polygala tenuifolia* (root). Ref: 4896.



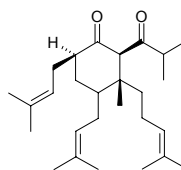
14321 Methyl 4,4'-dimethoxyvulpinate

$C_{22}H_{20}O_7$ (396.40). mp 172~173°C. Pharm: Anti-HSV-1 inactive; cytotoxic inactive (Hmn lung cancer cells NCI-H187). Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 5406.



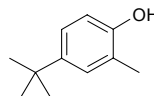
14322 (2R,3R,4S,6S)-3-Methyl-4,6-di(3-methyl-2-butenyl)-2-(2-methyl-1-oxopropyl)-3-(4-methyl-3-pentenyl)-cyclohexanone

$C_{27}H_{44}O_2$ (400.65). Colorless viscous oil, $[\alpha]_D^{22} = +18.3^\circ$ ($c = 1.8$, $CHCl_3$). Source: GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts: yield = 0.00020%dw). Ref: 3032.



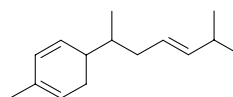
14323 2-Methyl-4-(1,1-dimethylethyl) phenol

[98-27-1] $C_{11}H_{16}O$ (164.25). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.



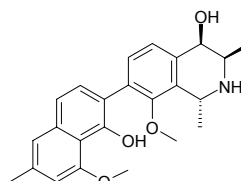
14324 2-Methyl-5-(1,5-dimethyl-3-hexenyl)-1,3-cyclohexadiene

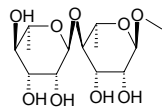
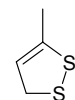
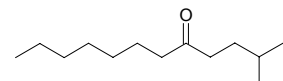
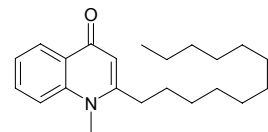
$C_{15}H_{24}$ (204.36). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.



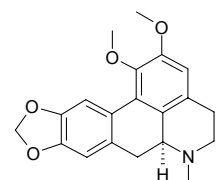
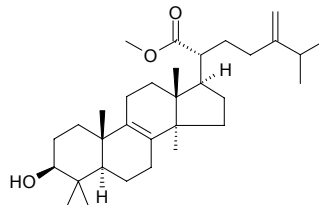
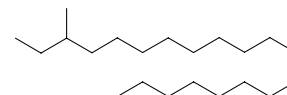
14325 8-O-Methylidioncophyllinol B

$C_{24}H_{27}NO_4$ (393.49). Yellow solid, $[\alpha]_D^{25} = -12.8^\circ$ ($c = 0.7$, $CHCl_3$). Pharm: Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 654$ ng/mL, NF54, $IC_{50} = 245$ ng/mL, MIC = 90 μ g/mL). Source: SAN YE MU *Triphyophyllum peltatum* (leaf). Ref: 3962.

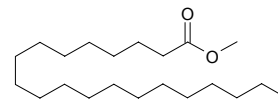


14326 Methyl di- α -L-rhamnosideC₁₃H₂₄O₉ (324.33). Source: LI CAI *Ulva conglobata*. Ref: 1497.**14327 3-Methyl-1,2-dithia-3-cyclopentene**C₄H₆S₂ (118.22). Source: DA SUAN *Allium sativum*. Ref: 1394.**14328 4-Methyl-1,2-dithio-3-cyclopentene**C₄H₆S₂ (118.22). Source: DA SUAN *Allium sativum*. Ref: 2.**14329 5-Methyl-1,2-dithio-3-cyclopentene**C₄H₆S₂ (118.22). Source: DA SUAN *Allium sativum*. Ref: 2.**14330 2-Methyl-dodecane-5-one**C₁₃H₂₆O (198.35). Source: DANG GUI *Angelica sinensis*. Ref: 2.**14331 1-Methyl-2-dodecyl-4(1H)-quinolone**C₂₂H₃₃NO (327.51). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 877, 2085.**14332 O-Methyl domesticine**

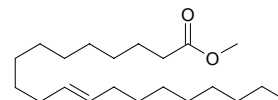
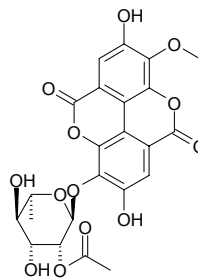
(+)-Nantenine [2565-01-7] C₂₀H₂₁NO₄ (339.39). mp (+) 138~139°C, mp 139~141°C, [α]_D = +93° (c = 0.17, CHCl₃). Source: NAN TIAN ZHU ZI *Nandina domestica*, NAN TIAN ZHU GEN *Nandina domestica*, NAN TIAN ZHU GENG *Nandina domestica*. Ref: 6, 1521, 2780.

**14333 Methyl eburicoate**C₃₂H₅₂O₃ (484.77). Source: BAO PI GU *Lentinus lepideus*. Ref: 1501.**14334 3-Methyl eicosane**C₂₁H₄₄ (296.58). Source: BAN XIA *Pinellia ternata*. Ref: 1401.**14335 Methyl eicosanoate**

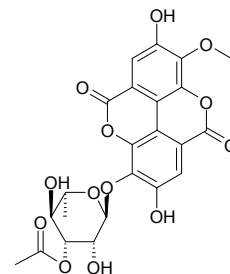
C₂₁H₄₂O₂ (326.57). Source: LIAO DONG CONG MU *Aralia elata*, QIANG HUO *Notopterygium incisum*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 1450, 1354, 1451, 1452.

**14336 Methyl 11-eicosenoate**

Methyl eicos-11-enoate C₂₁H₄₀O₂ (324.55). Source: QIANG HUO *Notopterygium incisum*, WU JING GAN LAN *Brassica napus* var. *napobrassica*, XI MING ZI *Thlaspi arvense*. Ref: 1484, 1354.

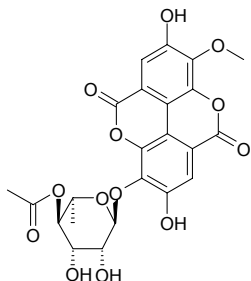
**14337 3-O-Methylellagic acid 3'-O- α -2''-O-acetylramnopyranoside**C₂₃H₂₀O₁₃ (504.41). Yellow powder. Source: AN YE *Eucalyptus globulus*. Ref: 737.**14338 3-O-Methylellagic acid 3'-O- α -3''-O-acetylramnopyranoside**

C₂₃H₂₀O₁₃ (504.41). Yellow powder. Source: AN YE *Eucalyptus globulus*. Ref: 737.

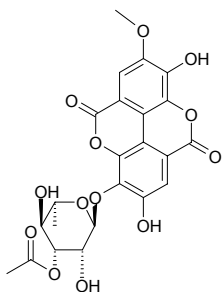


14339 3-O-Methylellagic acid 3'-O-4''-O-acetyl-rhamnopyranoside

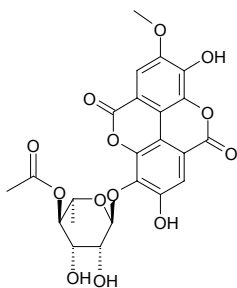
$C_{23}H_{20}O_{13}$ (504.41). Yellow powder. Source: AN YE *Eucalyptus globulus*. Ref: 737.

**14340 4-O-Methylellagic acid 3'-(3''-O-acetyl)- α -rhamnoside**

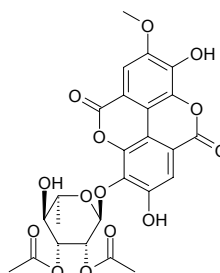
$C_{23}H_{20}O_{13}$ (504.41). Yellow amorphous solid, $[\alpha]_D^{25} = -57.9^\circ$ ($c = 0.011$, MeOH). Pharm: Antibacterial (*in vitro*, *Babesia gibsoni*, $IC_{50} = 52.1\mu\text{g/mL}$; control Diminazene aceturate, $IC_{50} = 0.60\mu\text{g/mL}$). Source: XIAO YE DU YING *Elaeocarpus parvifolius* (bark). Ref: 5324.

**14341 4-O-Methylellagic acid 3'-(4''-O-acetyl)- α -rhamnoside**

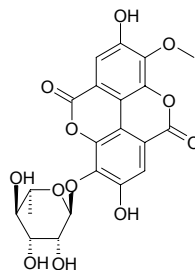
$C_{23}H_{20}O_{13}$ (504.41). Yellow amorphous solid, $[\alpha]_D^{25} = -20.7^\circ$ ($c = 0.19$, MeOH). Pharm: Antibacterial (*in vitro*, *Babesia gibsoni*, $IC_{50} > 180\mu\text{g/mL}$; control Diminazene aceturate, $IC_{50} = 0.60\mu\text{g/mL}$). Source: XIAO YE DU YING *Elaeocarpus parvifolius* (bark). Ref: 5324.

**14342 4'-O-Methylellagic acid 3-(2'',3''-di-O-acetyl)- α -L-rhamnoside**

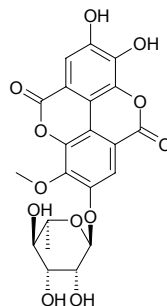
4-O-Methylellagic acid 3'-(2'',3''-di-O-acetyl)-3'- α -rhamnoside $C_{25}H_{22}O_{14}$ (546.45). Needles (MeOH), mp 217~218°C, $[\alpha]_D = -24.0^\circ$ ($c = 0.1$, MeOH); yellow amorphous solid, $[\alpha]_D^{25} = -25.9^\circ$ ($c = 0.32$, MeOH). Pharm: Cytotoxic ($ED_{50} > 5\text{mg/mL}$, inactive according to the protocols established by Likitwitayawuid et al., 1993 and Seo et al., 2001); antibacterial (*in vitro*, *Babesia gibsoni*, $IC_{50} = 28.5\mu\text{g/mL}$; control Diminazene aceturate, $IC_{50} = 0.60\mu\text{g/mL}$)^[5324]. Source: MA SI TE SI DU YING *Elaeocarpus mastersii*, XIAO YE DU YING *Elaeocarpus parvifolius* (bark). Ref: 2020, 5324.

**14343 3-O-methylellagic acid 3'-O- α -L-rhamnopyranoside**

$C_{21}H_{18}O_{12}$ (462.34). Yellow powder. Source: AN YE *Eucalyptus globulus*. Ref: 737.

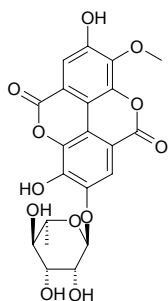
**14344 3-O-Methylellagic acid 4-O- α -L-rhamnopyranoside**

$C_{21}H_{18}O_{12}$ (462.37). $[\alpha]_D = -30^\circ$ ($c = 0.1$, MeOH). Source: SHI LIU XIN CAI *Punica granatum*. Ref: 5415.

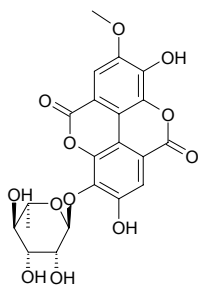


14345 3-O-Methylellagic acid 4'-O- α -L-rhamnopyranoside

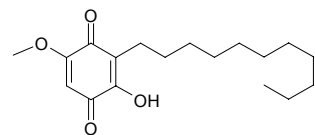
$C_{21}H_{18}O_{12}$ (462.37). Source: YOU GAN YE *Phyllanthus emblica* (leaf and branch). Ref: 4205.

**14346 4-O-Methylellagic acid 3'- α -rhamnoside**

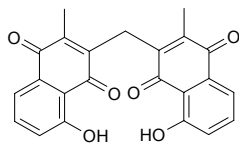
$C_{21}H_{18}O_{12}$ (462.32). Pale yellow needle-shaped crystals, $[\alpha]_D^{25} = -30.8^\circ$ ($c = 0.036$, MeOH). Pharm: Antibacterial (*in vitro*, *Babesia gibsoni*, $IC_{50} > 180 \mu\text{g/mL}$; control Diminazene aceturate, $IC_{50} = 0.60 \mu\text{g/mL}$). Source: XIAO YE DU YING *Elaeocarpus parvifolius* (bark). Ref: 5324.

**14347 5-O-Methylembelin**

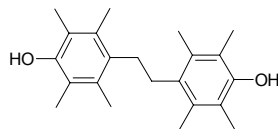
$C_{18}H_{28}O_4$ (308.42). Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} = 3 \mu\text{g/mL}$; Bel7402, $IC_{50} = 3.6 \mu\text{g/mL}$; HeLa, $IC_{50} = 9 \mu\text{g/mL}$; U937, $IC_{50} = 1.5 \mu\text{g/mL}$; control Colchicine, HL-60, $IC_{50} = 1.6 \mu\text{g/mL}$; Bel7402, $IC_{50} = 0.4 \mu\text{g/mL}$; HeLa, $IC_{50} = 0.1 \mu\text{g/mL}$; U937, $IC_{50} = 0.1 \mu\text{g/mL}$)^[4746]; antifungal (*Pythium ultimum*); fish toxin. Source: LA ZHU GUO *Aegiceras corniculatum*, LA ZHU GUO *Aegiceras corniculatum* (stem and twig: yield = 0.0017%)^[4746]. Ref: 658, 4746.

**14348 Methylene-3,3'-biplumbagin**

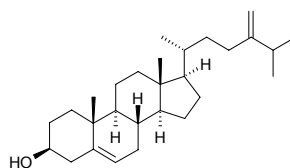
$C_{23}H_{16}O_6$ (388.88). Orange needles (C_6H_6), mp 230–233°C, 208–210°C. Pharm: Ichthyotoxin (MLC > 10mg/L, control Juglone, MLC = 0.2mg/L). Source: HAI SHI *Diospyros maritima* (fruit). Ref: 4185.

**14349 4,4'-Methylene bis[2,3,5,6-tetramethyl phenol]**

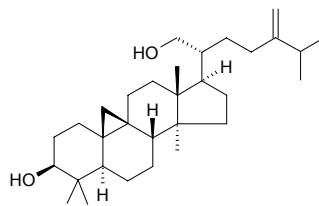
$C_{22}H_{30}O_2$ (326.48). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**14350 24-Methylene cholesterol**

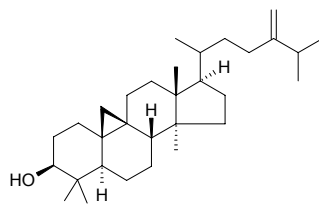
$C_{28}H_{46}O$ (398.68). mp 142°C. Source: GOU QI ZI *Lycium chinense*, LUO HUA SHENG *Arachis hypogaea*, ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 660.

**14351 24-Methylene cycloartan-3 β ,21-diol**

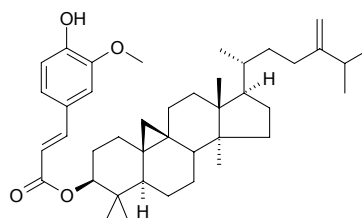
$C_{31}H_{52}O_2$ (456.76). mp 105–108°C. Source: DUO SUI SHI KE YE *Lithocarpus polystachyus*. Ref: 6.

**14352 24-Methylene cycloartan-3 β -ol**

$C_{31}H_{52}O$ (440.76). mp 122.0–122.5°C. Pharm: Intermediate in phytosterol biosynthesis. Source: GOU QI ZI *Lycium chinense*, JI CHANG LANG DU *Euphorbia esula*, SHI CHUN *Ulva lactuca*, XI YE DA JI *Euphorbia esula* var. *cyparissoides*, *Ammocharis coranica* (bulb). Ref: 6, 658, 660, 3952.

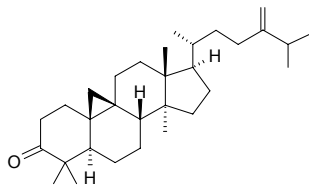
**14353 24-Methylene cycloartanol ferulate**

$C_{41}H_{60}O_4$ (616.93). mp 162–164°C; 193–194°C. Source: MI PI KANG *Oryza sativa*. Ref: 6.

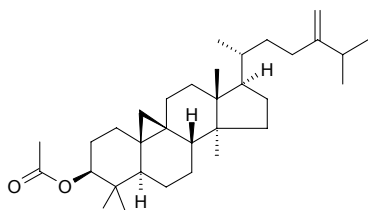


14354 24-Methylene cycloartanone

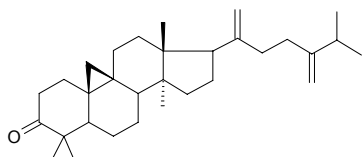
$C_{33}H_{50}O$ (438.74). Source: AI YE *Artemisia argyi*. Ref: 1288.

**14355 24-Methylenecycloartanyl acetate**

$C_{31}H_{54}O_2$ (482.80). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1413.

**14356 24-Methylenecycloartenone**

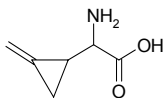
$C_{31}H_{48}O$ (436.73). Pharm: Antineoplastic; anti-HIV. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 2523.

**14357 Methylene cyclopentane**

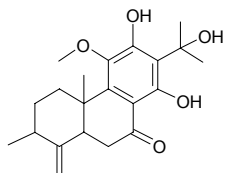
C_6H_{10} (82.15). Source: MENG GU HAO *Artemisia mongolica*. Ref: 1384.

**14358 α -(Methylenecyclopropyl) glycine**

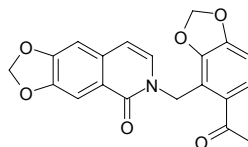
$C_6H_9NO_2$ (127.14). mp 202°C (dec). Pharm: Causes hypoglycemia; toxin (similar toxicity to *L*-hypoglucin). Source: OU YA QI *Acer pseudoplatanus*, LI ZHI HE *Litchi chinensis*. Ref: 6, 658.

**14359 1-Methylene-2,4a-dimethyl-6,8-dihydroxy-5-methoxy-7-(1,1-dimethyl hydroxy methyl)-1,2,3,4,9,10,10a-heptahydro-9-phenanthrone**

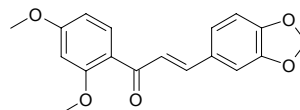
$C_{21}H_{28}O_5$ (360.45). Source: HUO XIANG *Agastache rugosus*. Ref: 1365.

**14360 6,7-Methylenedioxy-2-(6-acetyl-2,3-methylenedioxybenzyl)-1(2H)-isoquinolinone**

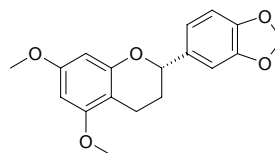
$C_{20}H_{15}NO_6$ (365.35). White crystals (MeOH). Source: KU DI DING *Corydalis bungeana* (whole herb). Ref: 3880.

**14361 3,4-Methylenedioxy-2',4'-dimethoxychalcone**

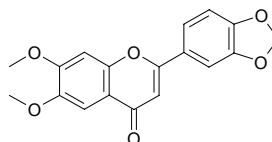
$C_{18}H_{16}O_5$ (312.33). Yellow powder, mp 123~125°C. Source: HONG E JI XUE TENG *Millettia erythrocalyx*. Ref: 1937.

**14362 (2S)-3',4'-Methylenedioxy-5,7-dimethoxyflavane**

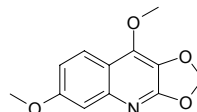
$C_{18}H_{18}O_5$ (314.34). Pale yellow oil, $[\alpha]_D^{25} = -7.4^\circ$ ($c = 0.5$, $CDCl_3$). Source: GU JING CAO *Eriocaulon buergerianum*. Ref: 1923.

**14363 3',4'-Methylenedioxy-6,7-dimethoxyflavone**

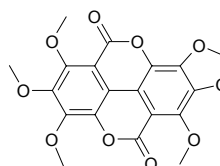
6,7-Dimethoxy-3',4'-methylenedioxyflavone $C_{18}H_{14}O_6$ (326.31). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.0016%dw). Ref: 4624.

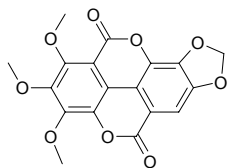
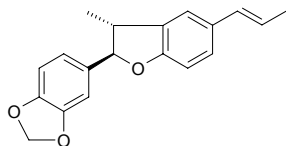
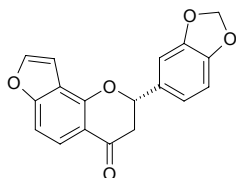
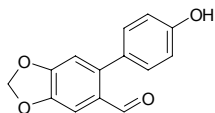
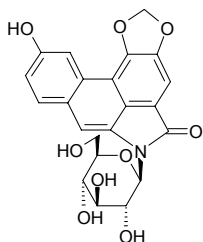
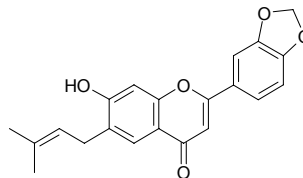
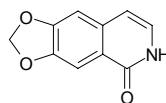
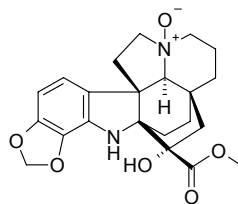
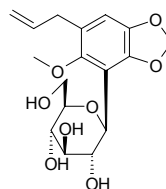
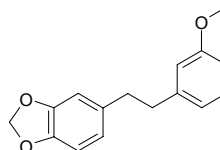
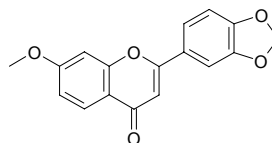
**14364 2,3-Methylenedioxy-4,7-dimethoxyquinoline**

$C_{12}H_{11}NO_4$ (233.23). Plates, mp 176~178°C. Source: YUE GUI YE SHAN YOU GAN *Acronychia laurifolia*. Ref: 2348.

**14365 3,4-Methylenedioxy-3',4'-O-dimethyl-5,5'-dimethoxyellagic acid**

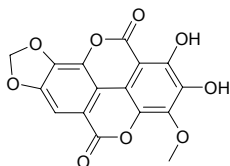
$C_{19}H_{14}O_{10}$ (402.32). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.



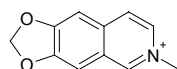
14366 3,4-Methylenedioxy-3',4'-O-dimethyl-5'-methoxyellagic acidC₁₈H₁₂O₉ (372.29). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.**14367 (7R,8R)-3,4-Methylenedioxy-4',7-epoxy-8,3'-neolignan-7'E-ene**C₁₉H₁₈O₃ (294.35). White amorphous, [α]_D²¹ = +85.5° (c = 0.06, MeOH).Source: *Piper regnellii* (root). Ref: 2358.**14368 3',4'-Methylenedioxy-(2'',3''':7,8)-furanoflavanone**C₁₈H₁₂O₅ (308.29). Viscous yellowish oil. Source: *Lonchocarpus latifolius* (root). Ref: 5108.**14369 4,5-Methylenedioxy-4'-hydroxy-2-aldehyde[1,1'-biphenyl]**C₁₄H₁₀O₄ (242.23). Amorphous powder. Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum* (bulb). Ref: 3997.**14370 3,4-Methylenedioxy-10-hydroxy aristolactam-N-β-D-glucoside**C₂₂H₁₉NO₉ (441.40). Source: KUAJ JING MA DOU LING *Aristolochia tuberosa*. Ref: 1317, 1318.**14371 3',4'-Methylenedioxy-7-hydroxy-6-isopentenyl flavone**C₂₁H₁₈O₅ (350.37). Source: TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*]. Ref: 1435.**14372 6,7-Methylenedioxy-1(2H)-isoquinolinone**C₁₀H₇NO₃ (189.17). Brown crystals (CHCl₃-MeOH). Source: KU DI DING *Corydalis bungeana* (whole herb). Ref: 3880.**14373 11,12-Methylenedioxykopsinaline N(4)-oxide**C₂₂H₂₆N₂O₆ (414.46). [α]_D = -16° (c = 0.19, CHCl₃). Source: MA LAI XI YA RUI MU *Kopsia griffithii*. Ref: 1854.**14374 1,2-Methylenedioxy-4-methoxy-5-allyl-phen-3-yl β-D-glucopyranoside**C₁₇H₂₂O₈ (345.36). Source: ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 1366.**14375 3,4-Methylenedioxy-3'-methoxybibenzil**3,4-Methylenedioxy-3'-methoxybibenzyl C₁₆H₁₆O₃ (256.30). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.**14376 3',4'-Methylenedioxy-7-methoxyflavone**7-Methoxy-3',4'-methylenedioxyflavone C₁₇H₁₂O₅ (296.28). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex; yield = 0.00019%dw). Ref: 4624.

14377 3,4-Methylenedioxy-3'-O-methyl-5'-hydroxyellagic acid

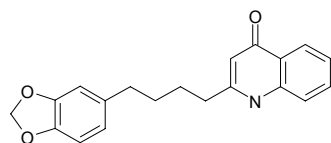
$C_{16}H_8O_9$ (344.24). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.

**14378 6,7-Methylenedioxy-N-methylisoquinoline**

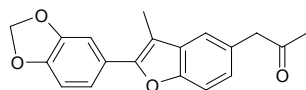
$C_{11}H_{10}NO_2^+$ (188.21). Yellow syrup. Source: HOU KE GUI *Cryptocarya chinensis* (stem cortex). Ref: 4160.

**14379 2-[4(3,4-Methylenedioxyphenyl)butyl]-4-quinolone**

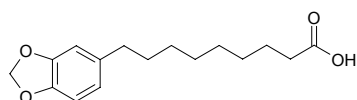
$C_{20}H_{19}NO_3$ (321.38). mp 224°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**14380 2-(3,4-Methylenedioxyphenyl)-3-methyl-5-(2-oxopropyl)benzofuran**

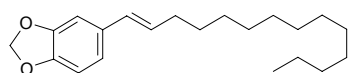
$C_{19}H_{16}O_4$ (308.34). Colorless viscous oil. Source: TE LI NI DA HU JIAO *Piper aequale*. Ref: 1910.

**14381 9'-(3,4-Methylenedioxy-phenyl)-nonanoic acid**

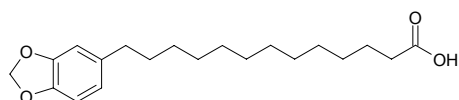
$C_{16}H_{22}O_4$ (278.35). Viscous oil. Source: SU LI NAN ROU DOU KOU *Virola surinamensis* [Syn. *Myristica surinamensis*]. Ref: 2580.

**14382 1-(3,4-Methylenedioxyphenyl)-1E-tetradecene**

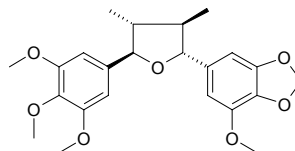
$C_{21}H_{32}O_2$ (316.49). Source: JIA JU ZI *Piper sarmentosum*. Ref: 1510.

**14383 13'-(3,4-Methylene-dioxyphenyl)-tridecanoic acid**

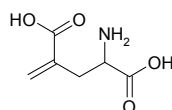
$C_{20}H_{30}O_4$ (334.46). Viscous oil. Source: SU LI NAN ROU DOU KOU *Virola surinamensis* [Syn. *Myristica surinamensis*]. Ref: 2580.

**14384 rel-(7R,8R,7'R,8'R)-3',4'-Methylenedioxy-3,4,5,5'-tetramethoxy-7,7'-epoxylignan**

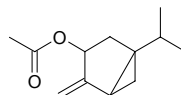
$C_{23}H_{28}O_7$ (416.48). Pale yellow oil, $[\alpha]_D^{21} = -4.5^\circ$ ($c = 0.01$, MeOH). Pharm: Antitrypanosomal (trypomastigote form of *Trypanosoma cruzi* (Y strain), $IC_{50} = 17.6\mu\text{g/mL}$). Source: *Piper solmsianum*. Ref: 3450.

**14385 γ-Methylene glutamic acid**

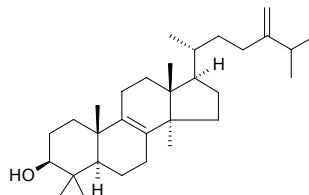
[7150-74-5] $C_6H_9NO_4$ (159.14). mp (*dl*) 203~210°C (dec). Source: LUO HUA SHENG *Arachis hypogaea*. Ref: 6.

**14386 4-Methylene-1-isopropyl-bicyclo[3.1.0]-hexan-3-ol acetate**

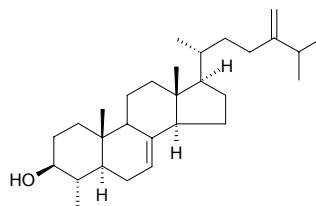
$C_{12}H_{18}O_2$ (194.28). Source: KUI HAO *Artemisia princeps*. Ref: 1268.

**14387 24-Methylene lanost-8-enol**

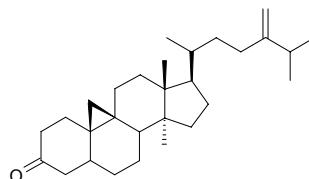
$C_{31}H_{52}O$ (440.76). Source: GOU QI ZI *Lycium chinense*. Ref: 1371, 1372, 1373, 1374.

**14388 24-Methylenelophenol**

$C_{29}H_{48}O$ (412.71). mp 172~173°C. Source: GAN ZHE *Saccharum sinensis*. Ref: 6.

**14389 24-Methylenepollinastanone**

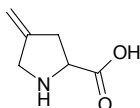
$C_{29}H_{46}O$ (410.69). White crystals, mp 76~77°C. Source: *Ammocharis coranica* (bulb). Ref: 3952.



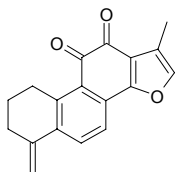
14390 4-Methylene-DL-proline

$C_6H_9NO_2$ (127.14). mp 225°C (dec). Source: PI PA HE *Eriobotrya japonica*.

Ref: 6.

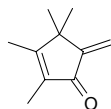
**14391 Methylene tanshinquinone**

[67656-29-5] $C_{18}H_{14}O_3$ (278.31). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]^[2], DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.086%)^[5508], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.074%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.019%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = trace)^[5508], LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.010%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.006%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.042%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = 0.007%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.126%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.065%)^[5508], ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = %) ^[5508]. Ref: 2, 5508.

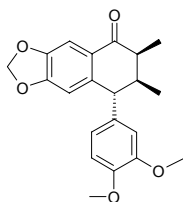
**14392 5-Methylene-2,3,4,4-tetramethylcyclopent-2-enone**

$C_{10}H_{14}O$ (150.22). Colorless oil. Source: *Lavandula luisieri* (essential oil).

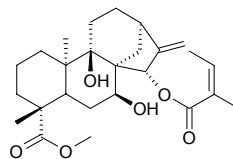
Ref: 5301.

**14393 (-)-4'-O-Methylshicine**

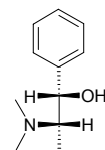
(7'R,8S,8'S)-8,8'-Dimethyl-3',4'-dimethoxy-4,5-methylenedioxy-2,7'-cycloign an-7-one $C_{21}H_{22}O_5$ (354.41). Amorphous yellow solid, $[\alpha]_D^{25} = -47.1^\circ$ ($c = 1.00$, $CHCl_3$). Source: *Holostylis reniformis* (root). Ref: 3784.

**14394 Methyl ent-7a,9a-dihydroxy-15β-[(2Z)-2-methyl-but-2-enoyloxy] kaur-16-en-19-oate**

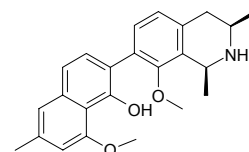
$C_{26}H_{38}O_6$ (446.59). Colorless needles, mp 108°C, $[\alpha]_D^{20} = -1.67^\circ$, ($c = 2.271$, MeOH). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, $IC_{50} = 10.4\mu mol/L$, $p < 0.05$, control Zileuton, $IC_{50} = 10.4\mu mol/L$, $p < 0.05$). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 5037.

**14395 N-Methylephedrine**

[51018-28-1] $C_{11}H_{17}NO$ (179.26). mp (-) 87~88°C. Pharm: Antiasthmatic (bronchial smooth muscle relaxant); used in treatment of asthmatic bronchitis; CNS stimulant. Source: DAN ZI MA HUANG *Ephedra monosperma* (herbaceous twigs: content = 0.042%)^[5508], LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 3 origins = 0.027%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: mean content of 5 origins = 0.079%)^[5508], MO GUO MA HUANG *Ephedra przewalskii* (herbaceous twigs: mean content = 0.006%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: mean content of 2 origins = 0.040%)^[5508], SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.043%)^[5508], SHUANG SUI MA HUANG *Ephedra distachya*, XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = 0.158%)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content of 2 origins = 0.041%)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = 0.056%)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: mean content of 3 origins = 0.006%)^[5508]. Ref: 2, 658, 660, 5508.

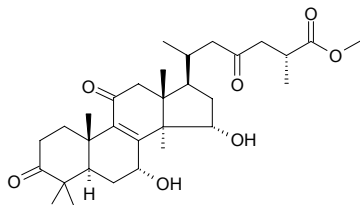
**14396 8-O-Methyl-1-epi-dioncophylline B**

$C_{24}H_{27}NO_3$ (377.49). Pharm: Antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 402ng/mL$, NF54, $IC_{50} = 1007ng/mL$, MIC = 33μg/mL). Source: SAN YE MU *Triphyophyllum peltatum* (leaf). Ref: 3962.

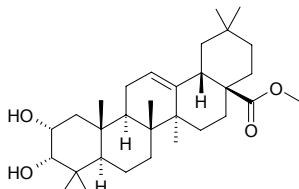


14397 Methyl-7-epiganoderate

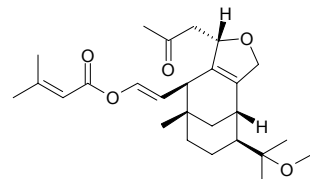
$C_{31}H_{46}O_7$ (530.71). Source: SHU SHE *Ganoderma applanatum*. Ref: 1500.

**14398 Methyl 3-epimaslinat**

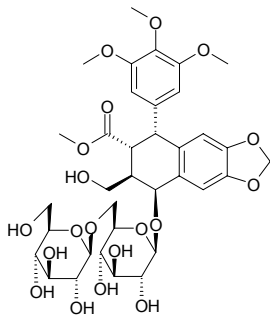
$C_{31}H_{50}O_4$ (486.74). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**14399 15-O-Methyl-14-epi-neovibsanin F**

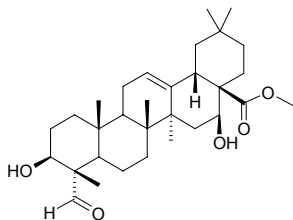
$C_{26}H_{38}O_5$ (430.59). Colorless paste, $[\alpha]_D^{23} = +65.9^\circ$ ($c = 0.14$, $CHCl_3$). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

**14400 Methyl epipodophyllate 7'-O-β-D-Glucopyranosyl-(1→6)-β-D-glucopyranoside**

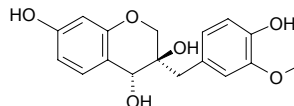
$C_{35}H_{46}O_{19}$ (770.75). White powder, $[\alpha]_D^{15} = -120^\circ$ ($c = 0.34$). Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 4142.

**14401 Methyl 16-epiquillate**

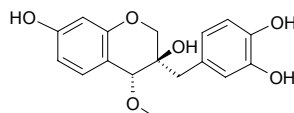
$C_{31}H_{48}O_5$ (500.73). Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 1442.

**14402 3'-O-Methyl episappanol**

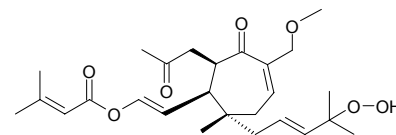
[111254-22-9] $C_{17}H_{18}O_6$ (318.33). Source: SU MU *Caesalpinia sappan*. Ref: 1302.

**14403 4-O-Methyl episappanol**

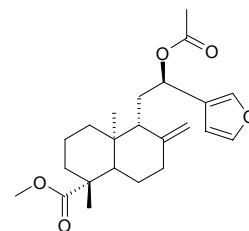
[112529-37-0] $C_{17}H_{18}O_6$ (318.33). Source: SU MU *Caesalpinia sappan*. Ref: 1304, 4494.

**14404 18-O-Methyl-5-epi-vibsanin K**

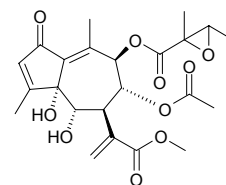
$C_{26}H_{38}O_7$ (462.59). $[\alpha]_D^{21} = +11.9^\circ$ ($c = 0.12$, $CHCl_3$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf). Ref: 4168.

**14405 Methyl-15,16-epoxy-12(R)-acetoxo-8(17),13(16),14-ent-labdatrien-19-oate**

$C_{23}H_{32}O_5$ (388.51). White gum, $[\alpha]_D^{25} = -18.0^\circ$ ($c = 0.60$, $CHCl_3$). Pharm: Anticidal (inhibits growth of alga *Raphidocelis subcapitata*, 72h $IC_{50} = 18.2 \mu\text{mol/L}$). Source: BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole herb). Ref: 3488.

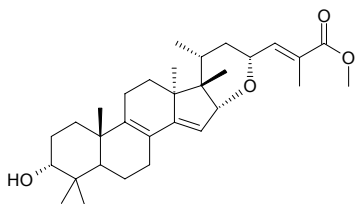
**14406 Methyl-9β-(epoxyangeloyloxy)-5α,6α-dihydroxy-2-oxo-3,4-dehydro-δ-guaian-12-oate**

$C_{23}H_{28}O_{10}$ (464.47). White oil, $[\alpha]_D^{22} = 16.72^\circ$ ($c = 0.14$, $CHCl_3$). Source: *Balsamorhiza sagittata* (aerial parts), *Balsamorhiza macrophylla* (aerial parts). Ref: 991.



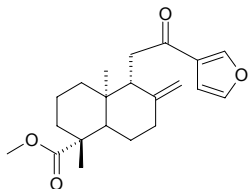
14407 Methyl (24E)-3 α ,16 α ,23 α (=16R,23R)-trihydroxy-epoxy-17,14-friedolan-8,14,24-trien-26-oate

C₃₁H₄₆O₄ (482.71). Gum, [α]_D²⁵ = +7.5° (c = 0.064, CHCl₃). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.



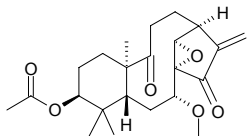
14408 Methyl 15,16-epoxy-12-oxo-8(17),13(16),14-ent-labdatrien-19-oate

C₂₁H₂₈O₄ (344.45). Pharm: Angicidal (inhibits growth of alga *Raphidocelis subcapitata*, 72h IC₅₀ = 6.1 μmol/L). Source: BI CHI YAN ZI CAI *Potamogeton pectinatus* (whole herb), HAI SHENG CHUN MAN ZAO *Ruppia maritima*. Ref: 3488.



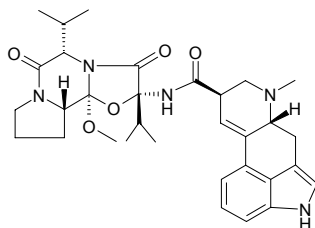
14409 o-Methylepoxyshikoccin

C₂₃H₃₂O₆ (404.51). mp 142–144°C, [α]_D²⁵ = +24.2° (c = 0.60, MeOH). Source: XI SI GUO XIANG CHA CAI *Isodon shikokiana* var. *occidentalis*. Ref: 4067.



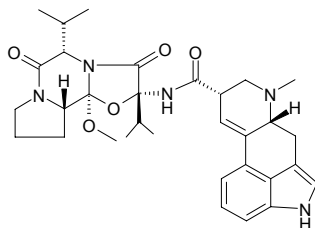
14410 O-12'-Methyl ergocornine

C₃₂H₄₁N₅O₅ (575.71). Source: MAI JIAO *Claviceps purpurea*. Ref: 1306.



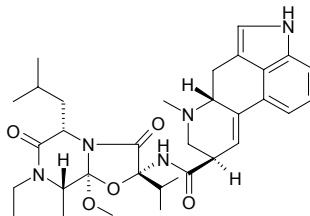
14411 O-12'-Methyl ergocorninine

C₃₂H₄₁N₅O₅ (575.71). Source: MAI JIAO *Claviceps purpurea*. Ref: 1306, 1307.



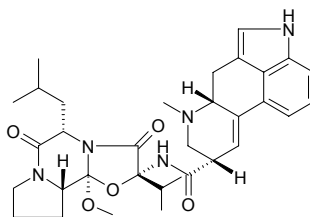
14412 O-12'-Methyl- α -ergokryptine

C₃₃H₄₃N₅O₅ (589.74). Source: MAI JIAO *Claviceps purpurea*. Ref: 1306.



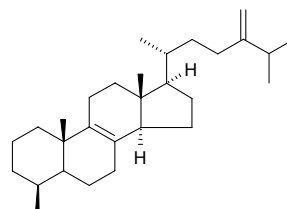
14413 O-12'-Methyl- α -ergokryptinine

C₃₃H₄₃N₅O₅ (589.74). Source: MAI JIAO *Claviceps purpurea*. Ref: 1306, 1307.



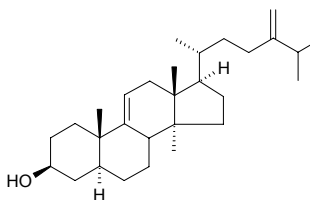
14414 4-Methyl-7-ergosta-8,24(28)-diene

C₂₉H₄₈ (396.71). Source: YU MI HEI MEI *Ustilago maydis*. Ref: 1499.



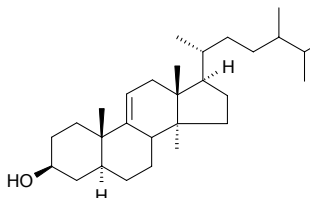
14415 14 α -Methyl-5 α -ergosta-9(11),24(28)-dien-3 β -ol

C₂₉H₄₈O (412.71). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.



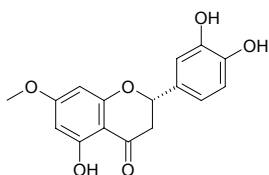
14416 14 α -Methyl-5 α -ergosta-9(11)-en-3 β -ol

C₂₉H₅₀O (414.72). Source: JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2.

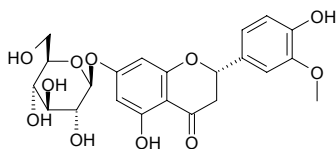


14417 7-O-Methylerydiol

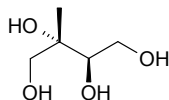
$C_{16}H_{14}O_6$ (302.29). **Pharm:** Cytotoxic (HeLa, $IC_{50} = 18.6\mu\text{g/mL}$, control Mitomycin C, $IC_{50} = 1.7\mu\text{g/mL}$). **Source:** TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4092.

**14418 3'-Methyl erydiol-7-O-β-D-glucoside**

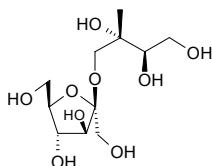
$C_{22}H_{24}O_{11}$ (464.43). **Source:** HU JI SHENG *Viscum coloratum*. **Ref:** 1434.

**14419 2-C-Methyl-D-erythritol**

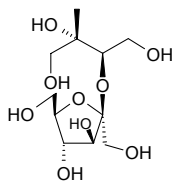
$C_5H_{12}O_4$ (136.15). **Source:** SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 4177.

**14420 2-C-Methyl-D-erythritol 1-O-β-D-fructofuranoside**

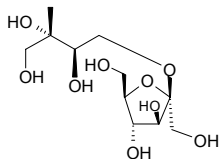
$C_{11}H_{22}O_9$ (298.29). Colorless syrup, $[\alpha]_D^{22} = -28^\circ$ ($c = 1.4$, MeOH). **Source:** HUI QIN *Pimpinella anisum*. **Ref:** 2065.

**14421 2-C-Methyl-D-erythritol 3-O-β-D-fructofuranoside**

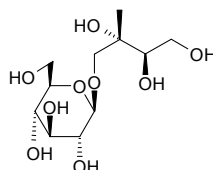
$C_{11}H_{22}O_9$ (298.29). Colorless syrup, $[\alpha]_D^{22} = -15^\circ$ ($c = 0.7$, MeOH). **Source:** HUI QIN *Pimpinella anisum*. **Ref:** 2065.

**14422 2-C-Methyl-D-erythritol 4-O-β-D-fructofuranoside**

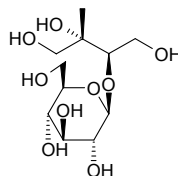
$C_{11}H_{22}O_9$ (298.29). Colorless syrup, $[\alpha]_D^{22} = -19^\circ$ ($c = 1.2$, MeOH). **Source:** HUI QIN *Pimpinella anisum*. **Ref:** 2065.

**14423 2-C-Methyl-D-erythritol 1-O-β-D-glucopyranoside**

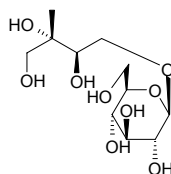
$C_{11}H_{22}O_9$ (298.29). colorless syrup, $[\alpha]_D^{21} = -15^\circ$ ($c = 1.2$, MeOH). **Source:** HUI QIN *Pimpinella anisum*, HU SUI ZI *Coriandrum sativum*, ZI RAN QIN *Cuminum cyminum*. **Ref:** 2065.

**14424 2-C-Methyl-D-erythritol 3-O-β-D-glucopyranoside**

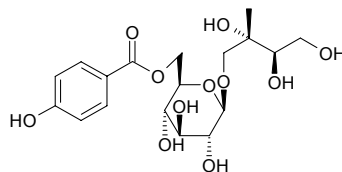
$C_{11}H_{22}O_9$ (298.29). Colorless syrup, $[\alpha]_D^{21} = -13^\circ$ ($c = 1.6$, MeOH). **Source:** HUI QIN *Pimpinella anisum*, ZI RAN QIN *Cuminum cyminum*. **Ref:** 2065.

**14425 2-C-Methyl-D-erythritol 4-O-β-D-glucopyranoside**

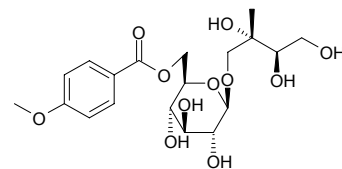
$C_{11}H_{22}O_9$ (298.29). Colorless syrup, $[\alpha]_D^{21} = -8^\circ$ ($c = 0.9$, MeOH). **Source:** HUI QIN *Pimpinella anisum*, HU SUI ZI *Coriandrum sativum*, ZI RAN QIN *Cuminum cyminum*. **Ref:** 2065.

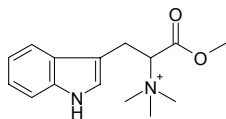
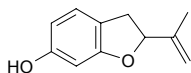
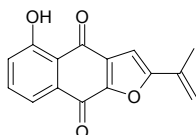
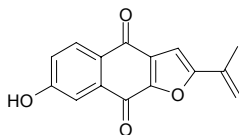
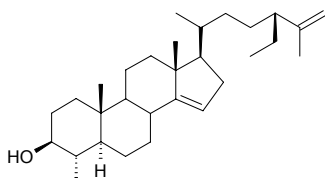
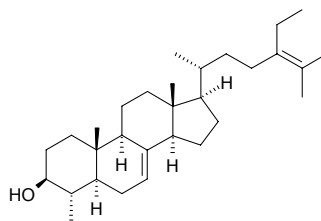
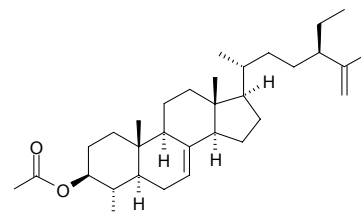
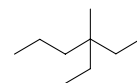
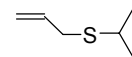
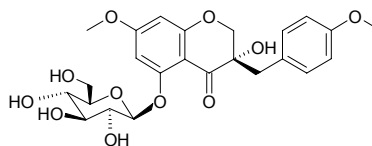
**14426 2-C-Methyl-D-erythritol 1-O-β-D-(6-O-4-hydroxybenzoyl)glucopyranoside**

$C_{18}H_{26}O_{11}$ (418.40). Amorphous powder, $[\alpha]_D^{22} = -12^\circ$ ($c = 1.6$, MeOH). **Source:** HUI QIN *Pimpinella anisum*. **Ref:** 2065.

**14427 2-C-Methyl-D-erythritol 1-O-β-D-(6-O-4-methoxybenzoyl)glucopyranoside**

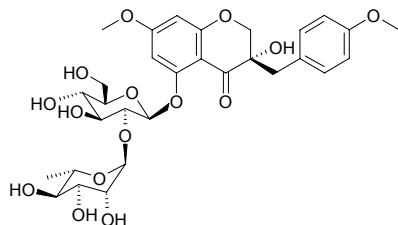
$C_{19}H_{28}O_{11}$ (432.43). Amorphous powder, $[\alpha]_D^{22} = -13^\circ$ ($c = 0.3$, MeOH). **Source:** HUI QIN *Pimpinella anisum*. **Ref:** 2065.



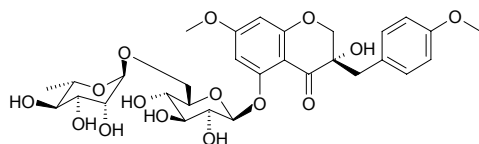
14428 Methyl ester of *N,N*-dimethyl-tryptophan methocationC₁₅H₂₁N₂O₂ (261.35). Source: XIANG SI ZI *Abrus precatorius*. Ref: 6.**14429 2-(1'-Methylethenyl)-6-hydroxy-2,3-dihydrobenzo[*b*]furan**C₁₁H₁₂O₂ (176.22). Amorphous material. Source: FEI ZHOU ZI WEI *Newbouldia laevis* (stem cortex). Ref: 3442.**14430 2-(1'-Methylethenyl)-5-hydroxynaphtho[2,3-*b*]furan-4,9-dione**C₁₅H₁₀O₄ (254.24). Yellow solid. Source: FEI ZHOU ZI WEI *Newbouldia laevis* (stem cortex). Ref: 3442.**14431 2-(1'-Methylethenyl)-7-hydroxynaphtho[2,3-*b*]furan-4,9-dione**C₁₅H₁₀O₄ (254.24). Orange material. Source: FEI ZHOU ZI WEI *Newbouldia laevis* (stem cortex). Ref: 3442.**14432 4 α -Methyl-24 β -ethyl-5 α -cholesta-14,25-dien-3 β -ol**C₃₀H₅₀O (426.73). Crystalline solid, mp 170–172°C, [α]_D = +77° (CHCl₃). Source: KU LANG SHU *Clerodendrum inerme*. Ref: 3382.**14433 4 α -Methyl-24-ethylcholesta-7,24-dienol**C₃₀H₅₀O (426.73). Source: GOU QI ZI *Lycium chinense*. Ref: 1371, 1372, 1373, 1374.**14434 (2*R*)-4 α -Methyl-24-ethylcholesta-7,25-dien-3 β -yl acetate**C₃₂H₅₂O₂ (428.77). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1413.**14435 3-Methyl-3-ethylhexane**[3074-76-8] C₉H₂₀ (128.26). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.**14436 3-[(1-Methylethyl)thio]-1-propene**C₆H₁₂S (116.23). Source: XIE BAI *Allium macrostemon*. Ref: 1391.**14437 (–)-7-*O*-Methyleucomol 5-*O*- β -D-glucopyranoside**C₂₄H₂₈O₁₁ (482.48). White needles (MeOH), mp 198–199°C, [α]_D²⁴ = –18.8° (c = 0.01, MeOH). Pharm: Cytotoxic inactive (*in vitro*, P₃₈₈ and A549). Source: HU YAN WAN NIAN QING *Ornithogalum caudatum* (bulb: yield = 0.00044%dw). Ref: 4608.

14438 (-)-7-O-Methyleucomol 5-O-β-neohesperidoside

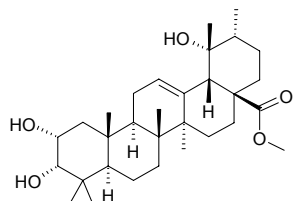
$C_{30}H_{38}O_{15}$ (638.63). White needles (MeOH), mp 212~213°C, $[\alpha]_D^{24} = -17.2^\circ$ ($c = 0.01$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, P₃₈₈ and A549). **Source:** HU YAN WAN NIAN QING *Ornithogalum caudatum* (bulb: yield = 0.00026%dw). **Ref:** 4608.

**14439 (-)-7-O-Methyleucomol 5-O-β-rutinoside**

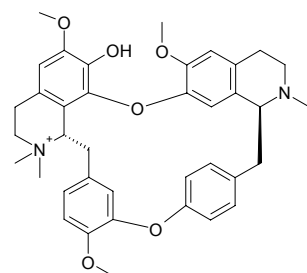
$C_{30}H_{38}O_{15}$ (638.63). White needles (MeOH), mp 207~208°C, $[\alpha]_D^{24} = -15.5^\circ$ ($c = 0.01$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, P₃₈₈ and A549). **Source:** HU YAN WAN NIAN QING *Ornithogalum caudatum* (bulb: yield = 0.00033%dw). **Ref:** 4608.

**14440 Methyl euscaphate**

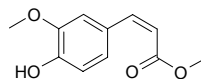
$C_{31}H_{50}O_5$ (502.74). **Source:** JIN YING ZI *Rosa laevigata*. **Ref:** 1326.

**14441 (+)-2-N-Methylfangchinoline**

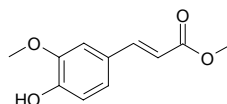
$C_{38}H_{43}N_2O_6$ (623.77). **Source:** FANG JI *Stephania tetrandra*. **Ref:** 2.

**14442 Methyl cis-ferulate**

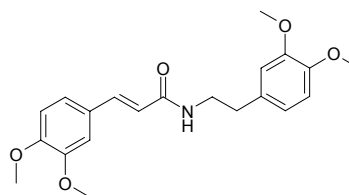
$C_{11}H_{12}O_4$ (208.22). **Source:** TAI WAN FU RONG *Hibiscus taiwanensis*. **Ref:** 2529.

**14443 Methyl trans-ferulate**

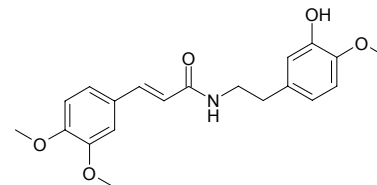
$C_{11}H_{12}O_4$ (208.22). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex), TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.0001%dw)^[4722], TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). **Ref:** 2529, 3075, 4488, 4722.

**14444 N-trans-4-O-Methylferuloyl 3',4'-O-dimethyldopamine**

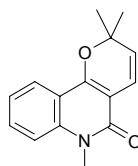
$C_{21}H_{25}NO_5$ (371.44). Colorless oil. **Pharm:** Germination/growth inhibitor/stimulator (dicotyledon *Lactuca sativa* lettuce, *Lycopersicon esculentum* tomato, monocotyledon *Allium cepa* onion, 0.0001~0.1mmol/L). **Source:** HONG HUA JIAO *Zanthoxylum rubescens*, LI *Chenopodium album* (aerial parts). **Ref:** 3499.

**14445 N-trans-4-O-Methylferuloyl 4'-O-methyldopamine**

$C_{20}H_{23}NO_5$ (357.41). Colorless oil. **Pharm:** Germination/growth inhibitor/stimulator (dicotyledon *Lactuca sativa* lettuce, *Lycopersicon esculentum* tomato, monocotyledon *Allium cepa* onion, 0.0001~0.1mmol/L). **Source:** LI *Chenopodium album* (aerial parts). **Ref:** 3499.

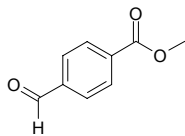
**14446 N-Methylflindersine**

[50333-13-6] $C_{15}H_{15}NO_2$ (241.29). **Pharm:** Antifungal (*Candida albicans*); insect antifeedant (beetle). **Source:** CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.0061%dw)^[4774], YU JU *Ptelea trifoliata*. **Ref:** 658, 4774.

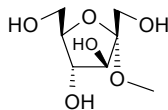


14447 Methyl-*p*-formylbenzoate

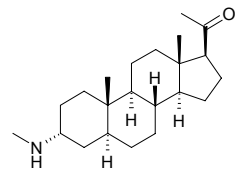
C₉H₈O₃ (164.16). Source: TAI WAN FU RONG *Hibiscus taiwanensis*. Ref: 2529.

**14448 Methyl- α -D-fructofuranoside**

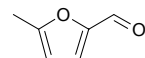
C₇H₁₄O₆ (194.19). Source: TAO REN *Prunus persica*. Ref: 1324.

**14449 N-Methylfuntumine**

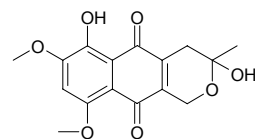
C₂₂H₃₇NO (331.55). Yellowish crystals (CHCl₃), mp 123~124°C, [α]_D²⁵ = +81° (c = 0.074, CHCl₃). Pharm: BChE inhibitor (horse serum BChE, IC₅₀ = (12.69±0.13)μmol/L, control Eserine, IC₅₀ = (0.857±0.008)μmol/L); AChE inhibitor (electric eel AChE, IC₅₀ = (97.61±1.73)μmol/L, control Eserine IC₅₀ = (0.041±0.001)μmol/L). Source: YUN NAN YE SHAN HUA *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (leaf). Ref: 4241.

**14450 α -Methylfurfural**

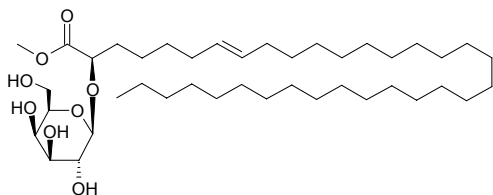
[620-02-0] C₆H₆O₂ (110.11). bp 187°C. Source: SHUI SONG *Codium fragile*. Ref: 6.

**14451 8-O-Methyl-fusarubin**

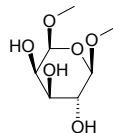
C₁₆H₁₆O₇ (320.30). Source: *Fusarium acutatum*. Ref: 5296.

**14452 Methyl-2 β (2S)-O- β -D-galactopyranosyl-7(E)-tetratriacontenoate**

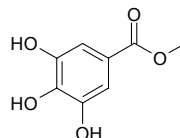
C₄₁H₇₈O₈ (699.07). Colorless powder. [α]_D²⁵ = -45° (c = 0.04, CD₃OD). Pharm: Tyrosinase inhibitor (IC₅₀ = (11.68±0.44)μmol/L, control Kojic acid, IC₅₀ = (16.67±0.52)μmol/L, L-Mimosine IC₅₀ = (3.68±0.02)μmol/L). Source: FEN ZHI PO JU *Amberboa ramosa*. Ref: 2531.

**14453 Methyl D-galactoside**

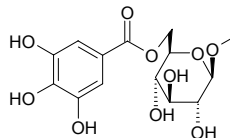
C₇H₁₄O₆ (194.19). mp (α) 125.5°C, (β) 178~180°C. Source: LU JIAO CAI *Gloiopeltis furcata*. Ref: 6.

**14454 Methyl gallate**

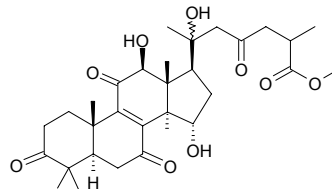
[99-24-1] C₈H₈O₅ (184.15). mp 197~198°C. Pharm: Antibacterial (acid-fast bacteria, gram-negative bacteria and gram-positive bacteria, EC = 0.5~5.0mg/mL; *Diplococcus pneumoniae*, EC = 5mg/mL, 15min; *Bacillus pneumoniae*, effective pH 5~6, 30min); antifungal; cytotoxic (antioxidant assay)^[5038]. Source: DUO HUA SHAO YAO *Paeonia emodi* (fruit), HUANG LU *Cotinus coggygria*, LUAN HUA *Koeleruteria paniculata*, MU MA HUANG *Casuarina equisetifolia*, NAN DA JI *Euphorbia jolkini*, QIANG WEI GEN *Rosa multiflora*, YAN FU YE *Rhus chinensis* [Syn. *Rhus semialata*], YAN FU ZI *Rhus chinensis* [Syn. *Rhus semialata*], ZI WEI HUA *Lagerstroemia indica*. Ref: 4, 6, 3802, 5038.

**14455 Methyl-6-O-galloyl- β -D-glucopyranoside**

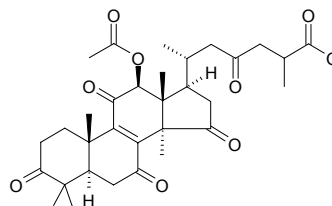
C₁₄H₁₈O₁₀ (346.29). Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 660.

**14456 Methyl ganoderate AP**

C₃₁H₄₄O₉ (560.69). Source: SHU SHE *Ganoderma applanatum*. Ref: 1500.

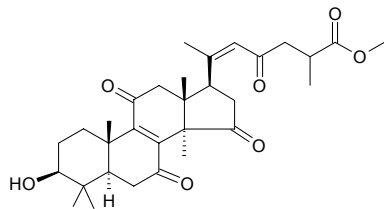
**14457 Methyl ganoderate F**

C₃₃H₄₄O₉ (584.71). Pharm: EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 289mol ratio/32pmol TPA, control β -Carotene, IC₅₀ = 400mol ratio/32pmol TPA). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0019%dw). Ref: 4737.

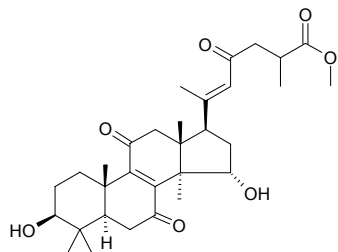


14458 Methyl ganoderate H

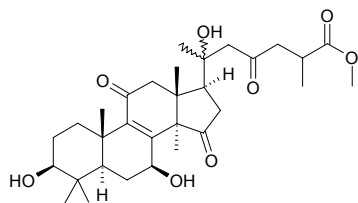
$C_{31}H_{42}O_7$ (526.68). Source: SHU SHE *Ganoderma applanatum*. Ref: 1500.

**14459 Methyl ganoderate I**

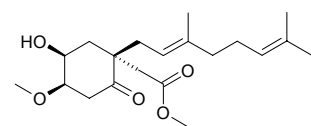
$C_{31}H_{44}O_7$ (528.69). Source: SHU SHE *Ganoderma applanatum*. Ref: 1500.

**14460 Methyl ganoderate J**

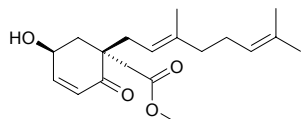
$C_{31}H_{46}O_8$ (546.71). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.00025%). Ref: 4603.

**14461 Methyl 2-(1'-β-geranyl-5'-β-hydroxy-4'-β-methoxy-2'-oxocyclohexyl)acetate**

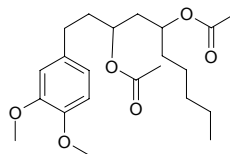
$C_{20}H_{32}O_5$ (352.48). Colorless oil, $[\alpha]_D^{22} = -59^\circ$ ($c = 0.103$, $CHCl_3$). Source: *Glossocalyx brevipes* (leaf). Ref: 4973.

**14462 Methyl 2-(1'-β-geranyl-5'-β-hydroxy-2'-oxocyclohex-3'-enyl)acetate**

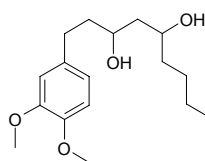
$C_{19}H_{28}O_4$ (320.43). Colorless oil, $[\alpha]_D^{22} = -2.9^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Antiplasmodial (*in vitro Plasmodium falciparum*: D6, $IC_{50} = 702.59$ ng/mL, control Mefloquine, $IC_{50} = 11.67$ ng/mL; W2, $IC_{50} = 2125.78$ ng/mL, control Mefloquine, $IC_{50} = 4.78$ ng/mL). Source: *Glossocalyx brevipes* (leaf). Ref: 4973.

**14463 6-Methylgingediacetate**

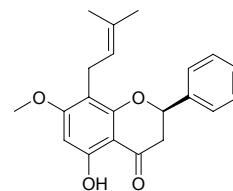
$C_{22}H_{34}O_6$ (394.51). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**14464 6-Methylgingediol**

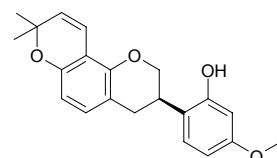
$C_{18}H_{30}O_4$ (310.44). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**14465 7-O-Methylglabranin**

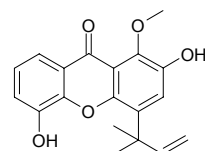
$C_{21}H_{22}O_4$ (338.41). Colorless needles ($CHCl_3$), mp 124–125°C, $[\alpha]_D^{25} = -20.9^\circ$ ($c = 0.25$, MeOH). Source: MEI LI YE HUI MAO DOU *Tephrosia calophylla* (whole herb). Ref: 4312.

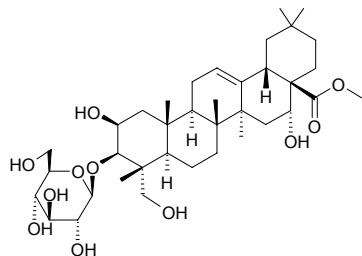
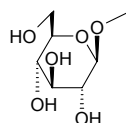
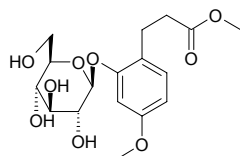
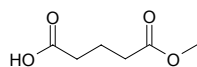
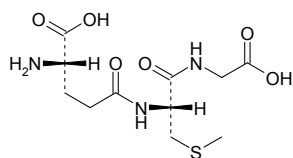
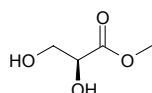
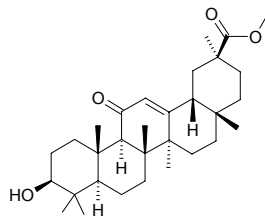
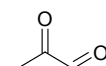
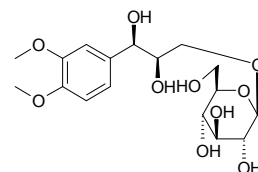
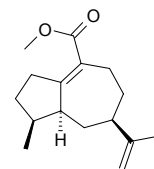
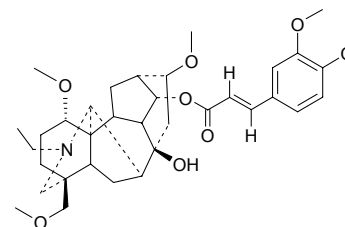
**14466 4'-O-Methylglabridin**

$C_{21}H_{22}O_4$ (338.41). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**14467 1-O-Methylglobuxanthone**

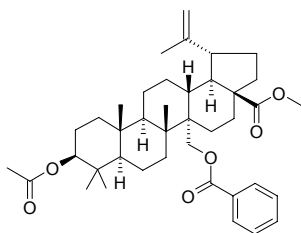
$C_{19}H_{18}O_5$ (326.35). Pale yellow needles, mp 145–146°C (acetone-hexane). Source: *Garcinia vilsersiana* (bark). Ref: 3902.



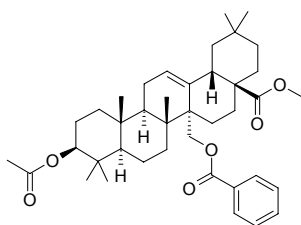
14468 Methyl-3-O-β-D-glucopyranosyl polygalcateC₃₇H₆₀O₁₁ (680.88). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1381.**14469 β-Methyl-D-glucoside**C₇H₁₄O₆ (194.19). Source: MU XU *Medicago sativa*. Ref: 6.**14470 Methyl 2-O-β-D-glucosyloxy-4-methoxybenzenepropanoate**C₁₇H₂₄O₉ (372.38). [α]_D²² = -85° (c = 0.9380, MeOH). Source: DUO TOU GE NI DI MU *Gnidia polycephala* (stem). Ref: 3502.**14471 Methyl glutarate**[1501-27-5] C₆H₁₀O₄ (146.14). Source: MU ZEI *Equisetum hiemale*. Ref: 2.**14472 S-Methylglutathione**C₁₁H₁₉N₃O₆S (321.35). Source: NIU FEI *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.**14473 Methyl (S)-glycerate**C₄H₉O₄ (120.11). Colorless oil; [α]_D = -8.4° (c = 0.44, MeOH). Source: NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.**14474 Methylglycyrrhetate**C₃₁H₄₈O₄ (484.73). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.**14475 Methylglyoxal**[78-98-8] C₃H₄O₂ (72.06). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.**14476 (1'R,2'R)-4-O-Methylguaiaicyl glycerol 3'-O-β-D-glucopyranoside**C₁₇H₂₆O₁₀ (390.39). Amorphous powder, [α]_D²² = -15° (c = 1.2, MeOH). Source: HUI QIN *Pimpinella anisum* (fruit). Ref: 4242.**14477 Methyl guaia-1(10),11-dien-15-carboxylate**C₁₆H₂₄O₂ (248.37). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.**14478 Methyl gymnaconitine**C₃₅H₄₉NO₈ (611.78). Amorphous powder, [α]_D^{20.5} = +33.2°. Source: LU RUI WU TOU *Aconitum gymnaandrum*. Ref: 52.

14479 Methyl helicterate

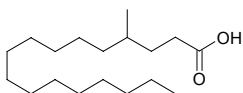
$C_{40}H_{56}O_6$ (632.89). Colorless lamellar crystals, mp 196~197°C, $[\alpha]_D^{20} = -12.3^\circ$ ($c = 8.0$, chloroform) Source: SHAN ZHI MA *Helicteres angustifolia*. Ref: 40.

**14480 Methyl helicterilate**

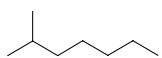
$C_{40}H_{56}O_6$ (632.89). Colorless acicular crystals, mp 152~153°C, $[\alpha]_D^{20} = +118.8^\circ$ ($c = 5.9$, chloroform). Source: SHAN ZHI MA *Helicteres angustifolia*. Ref: 40.

**14481 4-Methyl heptadecanoic acid**

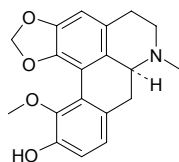
$C_{18}H_{36}O_2$ (284.49). Source: XIAN MAO *Curculigo orchoides*. Ref: 1398.

**14482 2-Methylheptane**

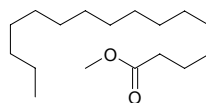
[592-27-8] C_8H_{18} (114.23). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**14483 N-Methylhernangerine**

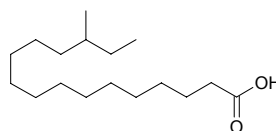
N-Methyl nandigerine [5544-68-3] $C_{19}H_{19}NO_4$ (325.37). mp 169~170°C, $[\alpha]_D^{32} = +300^\circ$ ($c = 1$, $CHCl_3$). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, $IC_{50} > 100\mu mol/L$, positive control Suramin, $IC_{50} = 2.4\mu mol/L$)^[4224]. Source: DING HU DIAO ZHANG *Lindera chunii* (root), HEI KE NAN *Lindera megaphylla*, LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*]. Ref: 1508, 1521, 4224.

**14484 Methyl hexadecanate**

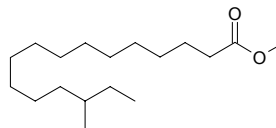
Methyl palmitate; Methyl hexadecanoate [112-39-0] $C_{17}H_{34}O_2$ (270.46). mp 30.5°C, 29.5°C, bp 415~418°C/747mmHg. Pharm: Cytotoxic (P_{388} , $ED_{50} > 50\mu g/mL$, control Mithramycin, $ED_{50} = 0.58\mu g/mL$; A549, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.073\mu g/mL$; HT29, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.076\mu g/mL$)^[5421]. Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG SHEN *Codonopsis pilosula*, JIAN YE TANG SONG CAO *Thalictrum acutifolium*, QING FENG TENG *Sinomenium acutum*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 2, 6, 1476, 5421.

**14485 14-Methyl hexadecanoic acid**

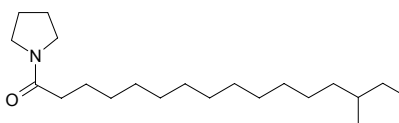
[5918-29-6] $C_{17}H_{34}O_2$ (270.46). Source: QIANG HUO *Notopterygium incisum*. Ref: 2.

**14486 14-Methyl hexadecanoic acid methyl ester**

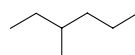
$C_{18}H_{36}O_2$ (284.49). Source: QIANG HUO *Notopterygium incisum*. Ref: 1354.

**14487 1-(14-Methylhexadecanoyl)pyrrolidine**

$C_{21}H_{41}NO$ (323.57). $[\alpha]_D^{20} = +5^\circ$ ($c = 0.4$, $CHCl_3$). Source: WENG CAI *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], WU YE YU HUANG CAO *Merremia quinquefolia*. Ref: 2403.

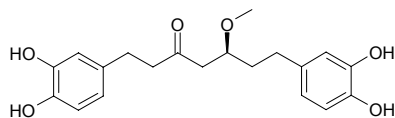
**14488 3-Methylhexane**

[589-34-4] C_7H_{16} (100.21). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

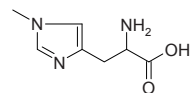


14489 5-O-Methylhirsutanonol

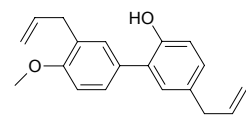
1,7-Bis-(3,4-dihydroxyphenyl)-5-methoxy-3-heptanone C₂₀H₂₄O₆ (360.41). Colorless viscous liquid, [α]_D = +3.8° (c = 0.07, MeOH). **Pharm:** Antioxidant (superoxide radical scavenger, IC₅₀ = 2.8 μmol/L; DPPH scavenger, IC₅₀ = 2.9 μmol/L). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**14490 3-Methylhistidine**

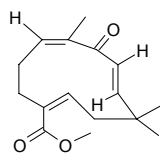
C₇H₁₁N₃O₂ (169.18). mp (L) 248~250°C (dec). **Source:** JI ROU *Gallus gallus domesticus*, WU LI *Ophiocephalus argus*. **Ref:** 6.

**14491 6'-O-Methylhonokiol**

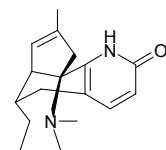
C₁₉H₂₀O₂ (280.37). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

**14492 Methyl 8-α-humula-6Z,9E-dien-12-oate**

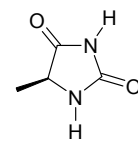
C₁₆H₂₂O₃ (262.35). **Pharm:** Phytotoxin (6mg/mL: *S. acutus*, mortality = 21%, *L. paucicostata*, mortality = 89%); cytotoxic (P₃₈₈, IC₅₀ = 10 μmol/L, control *cis*-Platin, IC₅₀ = 8 μmol/L; A549, IC₅₀ = 10 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L; HT29, IC₅₀ = 20 μmol/L, *cis*-Platin, IC₅₀ = 16 μmol/L; MEL-28, IC₅₀ = 10 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L). **Source:** *Asteriscus vogelii* (aerial parts). **Ref:** 5123.

**14493 N-Methyl huperzine B**

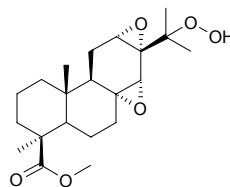
C₁₇H₂₂N₂O (270.38). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. **Ref:** 108.

**14494 5-Methyl hydantoin**

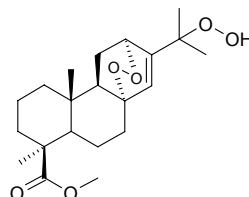
[40856-73-3] C₄H₆N₂O₂ (114.10). Crystals (H₂O). [α]_D²⁸ = -48° (EtOH), [α]_D = -58° (H₂O). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. **Ref:** 1332, 1521.

**14495 Methyl 15-hydroperoxy-8α,14α,12α,13α-diepoxiabietan-13-en-19-oate**

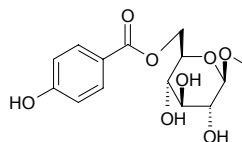
C₂₁H₃₂O₆ (380.49). White powder, [α]_D = +0.25° (c = 0.40, CHCl₃). **Pharm:** Cytotoxic (A549, IC₅₀ > 5 μg/mL, control Cycloheximide, IC₅₀ = 0.1 μg/mL; H116, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.1 μg/mL; PSN1, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.01 μg/mL; T98G, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 2.5 μg/mL; SKBR3, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.05 μg/mL). **Source:** FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). **Ref:** 3851.

**14496 Methyl 15-hydroperoxy-8α,12α-epidioxiabiet-13-en-19-oate**

C₂₁H₃₂O₆ (380.49). White powder, [α]_D = +9.7° (c = 1.03, CHCl₃). **Pharm:** Cytotoxic (A549, IC₅₀ = 5 μg/mL, control Cycloheximide, IC₅₀ = 0.1 μg/mL; H116, IC₅₀ = 2.5 μg/mL, Cycloheximide, IC₅₀ = 0.1 μg/mL; PSN1, IC₅₀ = 5 μg/mL, Cycloheximide, IC₅₀ = 0.01 μg/mL; T98G, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 2.5 μg/mL; SKBR3, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.05 μg/mL). **Source:** FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). **Ref:** 3851.

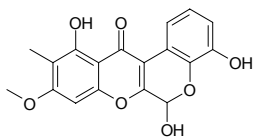
**14497 methyl (6-O-p-Hydroxybenzoyl)-β-D-glucopyranoside**

C₁₄H₁₈O₈ (314.29). **Source:** ZI YE *Catalpa ovata* (fallen leaf). **Ref:** 4290.

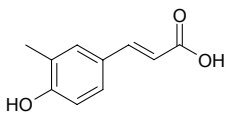


14498 9-O-Methyl-4-hydroxyboeravinone

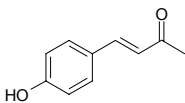
$C_{18}H_{14}O_7$ (342.31). White amorphous powder. **Pharm:** Antifungal (*Candida albicans* DSY1024, $IC_{50} = 48\mu\text{g/mL}$). **Source:** ZI MO LI GEN *Mirabilis jalapa* (Plant cell culture). **Ref:** 3043.

**14499 m-Methyl-p-hydroxy-cinnamic acid**

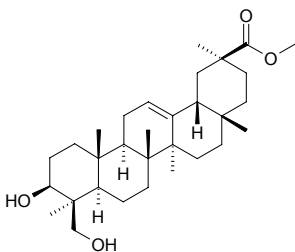
$C_{10}H_{10}O_3$ (178.19). Colorless acicular crystals, mp 170~174°C (Me₂CO). **Source:** JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbiferum*]. **Ref:** 663.

**14500 Methyl p-hydroxycinnamoyl ketone**

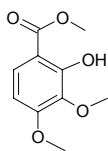
$C_{10}H_{10}O_2$ (162.19). **Pharm:** Cytotoxic inactive (Colon26-L5, HT1080, 100μmol/L). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00032%). **Ref:** 3042.

**14501 Methyl-24-hydroxy-11-deoxoglycyrrhetate**

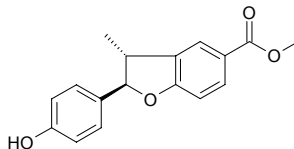
$C_{31}H_{50}O_4$ (486.74). mp 263~264°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 6.

**14502 Methyl 2-hydroxy-3,4-dimethoxy benzoate**

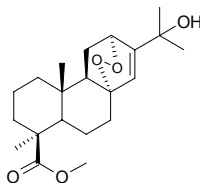
$C_{10}H_{12}O_5$ (212.20). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 1266.

**14503 Methyl-(7R,8R)-4-hydroxy-8',9'-dinor-4',7-epoxy-8,3'-neolignan-7'-ate**

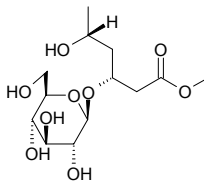
$C_{17}H_{16}O_4$ (284.31). Yellow oil, $[\alpha]_D^{21} = +30.1^\circ$ ($c = 0.08$, MeOH). **Source:** *Piper regnellii* (root). **Ref:** 2358.

**14504 Methyl 15-hydroxy-8α,12α-epidioxiabiet-13-en-19-oate**

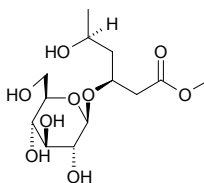
$C_{21}H_{32}O_5$ (364.49). Colorless oil, $[\alpha]_D = +72.4^\circ$ ($c = 0.46$, CHCl₃). **Pharm:** Cytotoxic (A549, $IC_{50} > 5\mu\text{g/mL}$, control Cycloheximide, $IC_{50} = 0.1\mu\text{g/mL}$; H116, $IC_{50} > 5\mu\text{g/mL}$, Cycloheximide, $IC_{50} = 0.1\mu\text{g/mL}$; PSN1, $IC_{50} > 5\mu\text{g/mL}$, Cycloheximide, $IC_{50} = 0.01\mu\text{g/mL}$; T98G, $IC_{50} > 5\mu\text{g/mL}$, Cycloheximide, $IC_{50} = 2.5\mu\text{g/mL}$; SKBR3, $IC_{50} > 5\mu\text{g/mL}$, Cycloheximide, $IC_{50} = 0.05\mu\text{g/mL}$). **Source:** FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). **Ref:** 3851.

**14505 Methyl-(3R,5R)-5-hydroxy-3-(β-D-glucopyranosyloxy)-hexanoate**

$C_{13}H_{24}O_9$ (324.33). Oil, $[\alpha]_D^{24} = -27.8^\circ$ ($c = 1.15$, MeOH). **Source:** MO JUE *Hymenophyllum barbatum*. **Ref:** 4178.

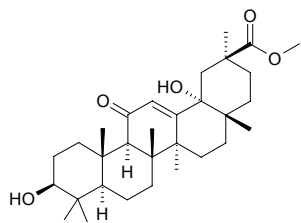
**14506 Methyl-(3S,5S)-5-hydroxy-3-(β-D-glucopyranosyloxy) hexanoate**

$C_{13}H_{24}O_9$ (324.33). **Source:** ZI QI *Osmunda japonica*. **Ref:** 660.

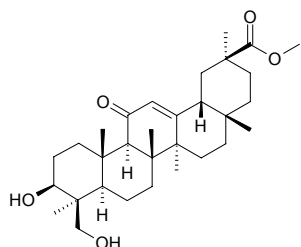


14507 Methyl 18 α -hydroxyglycyrrhetate

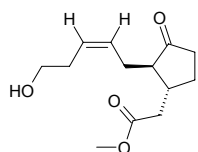
C₃₁H₄₈O₅ (500.73). White acicular crystals (95%ethanol), mp 302~303°C, 284~290°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 6, 82, 660.

**14508 Methyl-24-hydroxyglycyrrhetate**

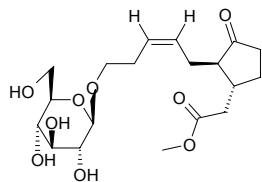
C₃₁H₄₈O₅ (500.73). mp 247~248°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 6.

**14509 (1*R*,2*R*)-Methyl-5'-hydroxyjasmonate**

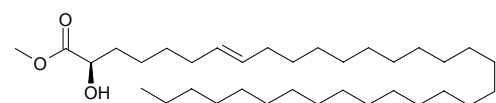
C₁₃H₂₀O₄ (240.30). Amorphous powder, [α]_D²¹ = -49°. Source: SHE XIANG CAO *Thymus vulgaris*. Ref: 2592.

**14510 (1*R*,2*R*)-Methyl-5'-hydroxyjasmonate 5'-*O*- β -*D*-glucopyranoside**

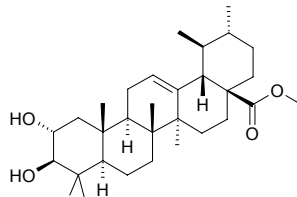
C₁₉H₃₀O₉ (402.45). Amorphous powder, [α]_D²¹ = -55°. Source: SHE XIANG CAO *Thymus vulgaris*, JU YU *Helianthus tuberosus*. Ref: 2592.

**14511 Methyl-2 β (2*S*)-hydroxyl-7(*E*)-tritriacontenoate**

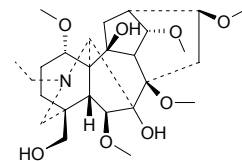
C₃₄H₆₆O₃ (522.90). Colorless powder. [α]_D²⁵ = -120° (c = 0.01, CDCl₃). Pharm: Tyrosinase inhibitor (IC₅₀ = (1.36±0.12) μ mol/L, control Kojic acid IC₅₀ = (16.67±0.52) μ mol/L, *L*-Mimosine IC₅₀ = (3.68±0.02) μ mol/L). Source: FEN ZHI PO JU *Amberboa ramosa*. Ref: 2531.

**14512 Methyl 2 α -hydroxyursa-28-oate**

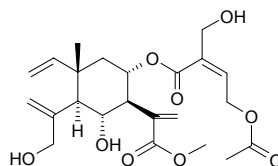
C₃₁H₅₀O₄ (486.74). Source: JIN YING ZI *Rosa laevigata*, XIA KU CAO *Prunella vulgaris*. Ref: 1326, 2508.

**14513 8-Methyl-10-hydroxylycoctonine**

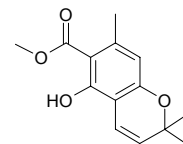
C₂₆H₄₃NO₈ (497.63). Colorless powder. Source: ZI HUA GAO WU TOU *Aconitum excelsum*. Ref: 689.

**14514 Methyl 8 α -(*Z*-2-hydroxymethyl-4-acetoxybut-2-enyloxy)-6 α ,15-dihydroxyelema-1,3,11(13)-trien-12-oate**

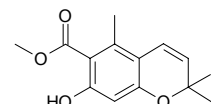
C₂₃H₃₂O₉ (452.51). Colorless oil, [α]_D = +11.5° (c = 1.2, CHCl₃). Source: CU CAO SHI CHE JU *Centaurea aspera* ssp. *aspera* (aerial parts), XIA YE CU CAO SHI CHE JU *Centaurea aspera* subsp. *stenophylla* (aerial parts). Ref: 5300.

**14515 Methyl 5-hydroxy-7-methyl-2,2-dimethyl-2*H*-1-chromene-6-carboxylate**

C₁₄H₁₆O₄ (248.28). Amorphous solid. Pharm: Antifungal (*Cladosporium sphaerospermum*, 100 μ g, weak activity; *Cladosporium cladosporioides*, 100 μ g, weak activity). Source: *Peperomia villipetiola* (stem). Ref: 5256.

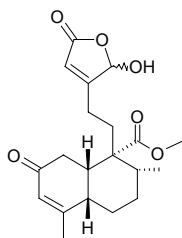
**14516 Methyl 7-hydroxy-5-methyl-2,2-dimethyl-2*H*-1-chromene-6-carboxylate**

C₁₄H₁₆O₄ (248.28). Amorphous solid. Pharm: Antifungal inactive (*Cladosporium sphaerospermum*, 100 μ g; *Cladosporium cladosporioides*, 100 μ g). Source: *Peperomia villipetiola* (stem). Ref: 5256.



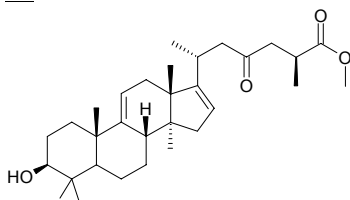
14517 (-)-Methyl 16-hydroxy-19-nor-2-oxo-cis-cleroda-3,13-dien-15,16-olide-20-oate

$C_{20}H_{26}O_6$ (362.43). $[\alpha]_D = -8.1^\circ$ ($c = 0.3$, $CHCl_3$). Source: GE LUN BI YA BA DOU *Croton schiedeanus* (aerial parts). Ref: 4447.



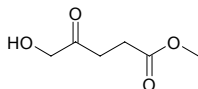
14518 Methyl (25R)-3β-hydroxy-23-oxo-9,16-lanostadien-26-oate

$C_{31}H_{48}O_4$ (484.73). White powder, mp 180~182°C, $[\alpha]_D^{25} = -124.2^\circ$ ($c = 0.0054$, $CHCl_3$). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.



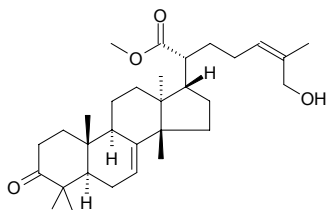
14519 Methyl 5-hydroxy-4-oxopentanoate

$C_6H_{10}O_4$ (146.14). Source: ER RUI HE LIAN DOU *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (whole herb: yield = 0.00021%dw). Ref: 4758.



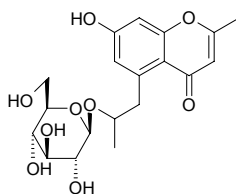
14520 Methyl(24Z)-26-hydroxy-3-oxo-7,24-tirucalladienoate

Methyl(24Z)-26-hydroxy-3-oxo-7,24-euphadienoate [121063-68-1] $C_{31}H_{48}O_4$ (484.73). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.



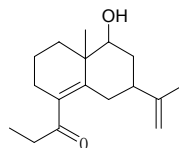
14521 2-Methyl-5-(2'-hydroxypropyl)-7-hydroxy-chromone-2'-O-β-D-glucopyranoside

$C_{19}H_{24}O_9$ (396.40). White powder, mp 232~233°C. Source: TIE DAO MU *Cassia siamea*. Ref: 2459.



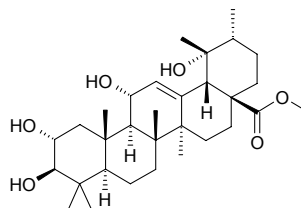
14522 Methyl 9-hydroxyselina-4,11-dien-14-oate

$C_{17}H_{26}O_2$ (262.40). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



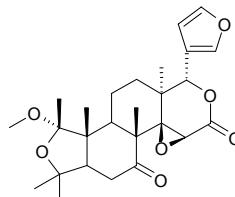
14523 Methyl 11α-hydroxytormentate

$C_{31}H_{50}O_6$ (518.74). Source: JIN YING ZI *Rosa laevigata*. Ref: 1326.



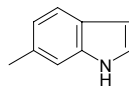
14524 1-O-Methylchangensin

$C_{26}H_{34}O_7$ (458.56). Colorless needles, $[\alpha]_D^{25} = +20.0^\circ$ ($c = 1.2$, MeOH). Source: SU DA QI GAN JU *Citrus sudachii* (seed). Ref: 3532.



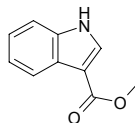
14525 6-Methyl indole

[3420-02-8] C_9H_9N (131.18). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.



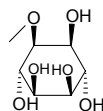
14526 Methyl indole-3-carboxylate

$C_{10}H_9NO_2$ (175.19). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.



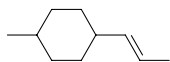
14527 D-1-O-Methyl-muco-inositol

$C_7H_{14}O_6$ (194.19). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 1418.

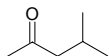


14528 1-Methyl-4-isoallyl-cyclohexane

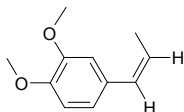
$C_{10}H_{18}$ (138.25). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**14529 Methyl isobutyl ketone**

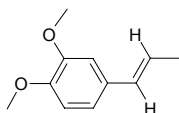
[108-10-1] $C_6H_{12}O$ (100.16). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**14530 cis-Methyl iso Eugenol**

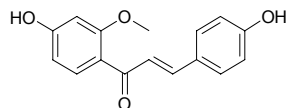
1,2-Dimethoxy-4-(1-cis-propenyl)-benzene $C_{11}H_{14}O_2$ (178.23). White oil, bp 138~140°C/12mmHg. Pharm: Inhibitory activity against NFAT Transcription ($IC_{50} > 100\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.29\pm 0.01)\mu\text{mol/L}$). Source: BAI CHANG *Acorus calamus*, HUA CHA BIAO *Ribes fasciculatum* var. *chinense*. Ref: 6, 2536.

**14531 trans-Methyl iso Eugenol**

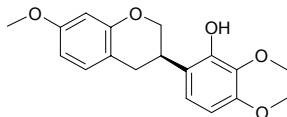
[6379-72-2] $C_{11}H_{14}O_2$ (178.23). mp 16~17°C, bp 143~144°C/11mmHg. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 0.4mg/mL; *Diplococcus pneumoniae*, MIC = 0.6mg/mL); antihistamine; antispasmodic; antitussive (dispels phlegm); sedative; hypnotic. Source: BAI CHANG *Acorus calamus*, JIN QIAN PU *Acorus gramineus*, NAN HE SHI *Daucus carota*, OU XI XIN *Asarum europaeum*, ROU DOU KOU *Myristica fragrans*, YE XIANG MAO *Cymbopogon goeringii*. Ref: 6, 658.

**14532 2'-O-Methyl isoliquiritigenin**

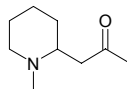
$C_{16}H_{14}O_4$ (270.29). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1289.

**14533 7-O-Methyl isomucronulatol**

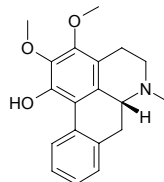
[137217-83-5] $C_{18}H_{20}O_5$ (316.36). Source: MENG GU HUANG QI *Astragalus mongholicus*. Ref: 1328.

**14534 Methyl isopelletierine**

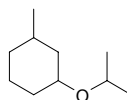
$C_9H_{17}NO$ (155.24). bp (\pm) 96~98°C/13mmHg. Source: HENG GEN FEI CAI *Sedum kamschaticum*, SHI LIU GEN *Punica granatum*, SHI LIU PI *Punica granatum*, SHI ZHI JIA *Sedum sarmentosum*. Ref: 6, 1218, 1219, 1220, 1221.

**14535 (-)-N-Methylisopiline**

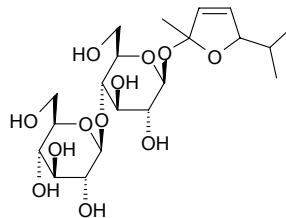
$C_{19}H_{21}NO_3$ (311.38). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). Ref: 3083.

**14536 1-Methyl-3-isopropoxy cyclohexane**

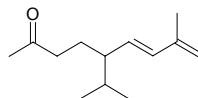
$C_{10}H_{20}O$ (156.27). Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 1404.

**14537 1α-O-[2'-(2'-Methyl-5'-isopropyl,3'-en-bihydrofuryl)]-β-D-lactose**

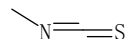
$C_{20}H_{34}O_{12}$ (466.49). White amorphous powder. Source: WU HUA GUO *Ficus carica*. Ref: 814.

**14538 8-Methyl-5-isopropyl-6,8-nonadiene-2-one**

$C_{12}H_{22}O$ (194.32). Source: HUA JIAO *Zanthoxylum bungeanum*. Ref: 1340.

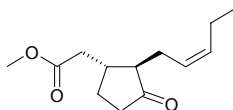
**14539 Methyl isothiocyanate**

[556-61-6] C_2H_3NS (73.12). mp 35.93°C, bp 119°C/758mmHg. Source: JIE ZI *Brassica juncea*. Ref: 6.

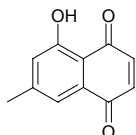


14540 cis-Methyl jasmonate

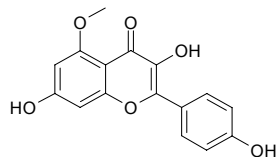
[20073-13-6] C₁₃H₂₀O₃ (224.30). Source: MO LI HUA *Jasminum sambac*.
Ref: 1483.

**14541 7-Methyl juglone**

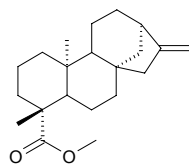
[14787-38-3] C₁₁H₈O₃ (188.18). Pharm: Antifungal (*Cladosporium cucumerinum*); molluscicide (kills shellfish). Source: JUN QIAN ZI *Diospyros lotus*, *Drosera* sp. Ref: 6, 658.

**14542 5-Methyl kaempferol**

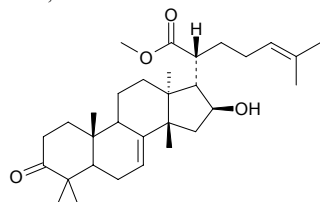
C₁₆H₁₂O₆ (300.27). Source: YING SHAN HONG *Rhododendron mucronulatum*. Ref: 6.

**14543 (-)-Methyl kaur-16-en-19-oate**

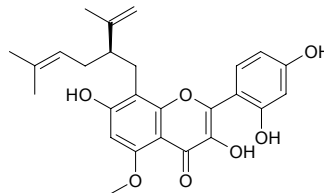
C₂₁H₃₂O₂ (316.49). Transparent oil, [α]_D²⁰ = -91.9° (c = 1.0, CHCl₃). Pharm: Na⁺,K⁺-ATP inhibitor (crude enzyme Na⁺,K⁺-ATPase from rat brain, IC₅₀ = 550 μmol/L). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (semi-synthetic derivative). Ref: 5404.

**14544 Methyl kulonate**

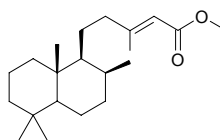
[22611-37-6] C₃₁H₄₈O₄ (484.73). Source: KU LIAN PI *Melia azedarach*. Ref: 1341, 1342.

**14545 5-O-Methyl kushenol C**

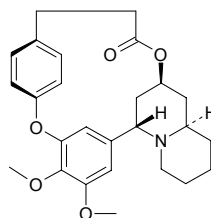
C₂₆H₂₈O₇ (452.51). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 1333.

**14546 Methyl labd-13E-en-15-oate**

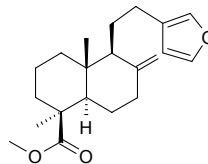
C₂₁H₃₀O₂ (320.52). Colorless gum. Source: *Colophospermum mopane* (bark and seed). Ref: 5147.

**14547 Methyl lagerine**

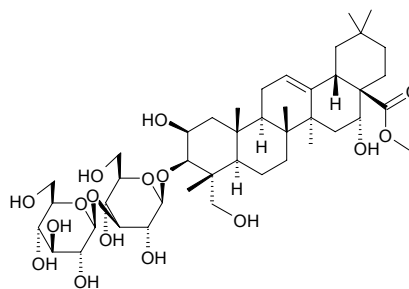
[33033-88-4] C₂₆H₃₁NO₅ (437.54). Source: ZI WEI HUA *Lagerstroemia indica*. Ref: 6.

**14548 Methyl lambertianate**

C₂₁H₃₀O₃ (330.47). Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

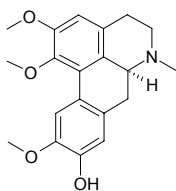
**14549 Methyl 3-O-β-laminaribiosyl polygalcate**

C₄₃H₇₀O₁₆ (843.03). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1381.

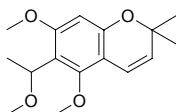


14550 (+)-N-Methyl laurotetanine

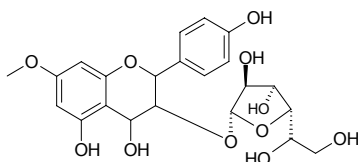
$C_{20}H_{23}NO_4$ (341.41). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*]. Ref: 2.

**14551 Methyl leptol B**

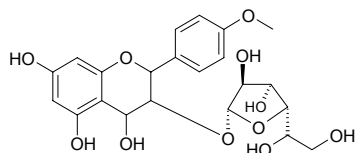
$C_{16}H_{22}O_4$ (278.35). Colorless columnar crystals (acetone), $[\alpha]_D^{18} = +24.3^\circ$ ($c = 0.339$, Me_2CO). Source: SAN CHA KU *Evodia leptia* [Syn. *Ilex leptia*]. Ref: 393.

**14552 7-O-Methyl leucopelargonidin-3-mono-glucufuranoside**

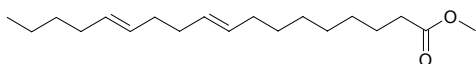
$C_{22}H_{26}O_{11}$ (466.45). Source: SHAN FAN YE *Symplocos caudata*. Ref: 6.

**14553 4'-O-Methyl leucopelargonidin-3-mono-glucufuranoside**

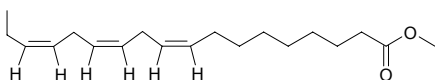
$C_{22}H_{26}O_{11}$ (466.45). Source: SHAN FAN YE *Symplocos caudata*. Ref: 6.

**14554 Methyl linoleate**

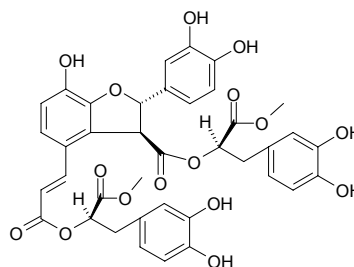
$C_{19}H_{34}O_2$ (294.48). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], JIN YIN HUA *Lonicera japonica*. Ref: 2, 660.

**14555 Methyl linolenate**

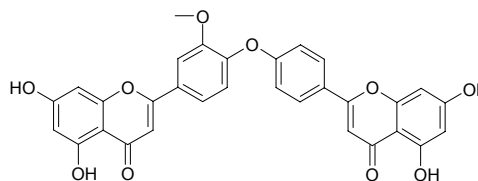
(*Z,Z,Z*)-9,12,15-Octadecatrienoic acid methyl ester; Linolenic acid methyl ester [301-00-8] $C_{19}H_{32}O_2$ (292.47). bp 177~180°C/3.5mmHg. Source: KUN BU *Laminaria japonica*. Ref: 6.

**14556 Methyl lithospermate B**

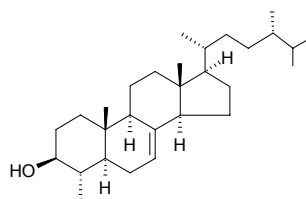
$C_{38}H_{34}O_{16}$ (746.69). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 0.0506$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mol/L; superoxide radical inhibitor, $IC_{50} = 0.113$ mmol/L, control Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, $IC_{50} = 0.053$ mmol/L, control Propyl gallate, $IC_{50} = 0.064$ mmol/L). Source: MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindlofia stylosa* (aerial part). Ref: 4533.

**14557 3'-O-Methyl loniflavone**

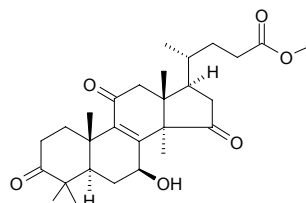
5,5',7,7''-Tetrahydroxy 3'-methoxy 4',4''-biflavonyl ether $C_{31}H_{20}O_{10}$ (552.50). Yellowish powder, mp 242~244°C. Source: JIN YIN HUA *Lonicera japonica* (leaf). Ref: 5335.

**14558 24-Methyllophenol**

4,24-Dimethyl cholest-7-en-3-ol [33903-17-2] $C_{29}H_{50}O$ (414.72). Source: GOU QI ZI *Lycium chinense*. Ref: 1371, 1372, 1373, 1374.

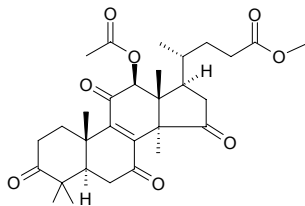
**14559 Methyl lucidenate A**

$C_{28}H_{40}O_6$ (472.63). Pharm: EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, $IC_{50} = 287$ mol ratio/32pmol TPA, control β -Carotene, $IC_{50} = 400$ mol ratio/32pmol TPA). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp; yield = 0.019%dw) Ref: 4737.

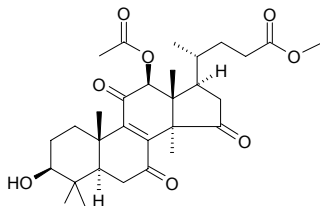


14560 Methyl lucidenate D₂

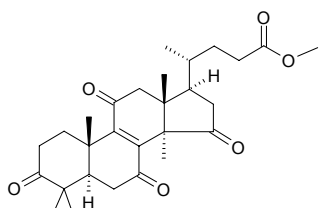
C₃₀H₄₀O₈ (528.65). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 290mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0022%dw). **Ref:** 4737.

**14561 Methyl lucidenate E₂**

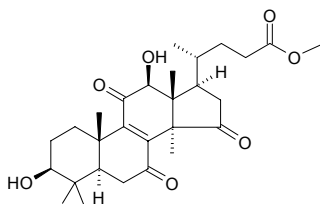
C₃₀H₄₂O₈ (530.66). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 288mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0092%dw). **Ref:** 4737.

**14562 Methyl lucidenate F**

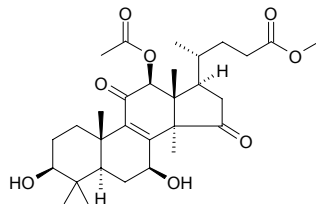
C₂₈H₃₈O₆ (470.61). Pale yellow needles (MeOH), mp 205–207°C, [α]_D = +120.0° (c = 0.05, CHCl₃). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 285mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA)^[4737]. **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0069%dw)^[4737]. **Ref:** 3081, 4737.

**14563 Methyl lucidenate L**

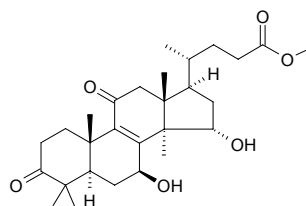
C₂₈H₄₀O₇ (488.63). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 275mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0011%dw). **Ref:** 4737.

**14564 Methyl lucidenate P**

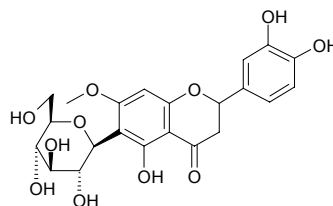
C₃₀H₄₄O₈ (532.68). Colorless needles (acetone–MeOH), mp 83–85°C, [α]_D²⁵ = +77.6° (c = 0.41, CHCl₃). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 293mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.015%dw). **Ref:** 4737.

**14565 Methyl lucidenate Q**

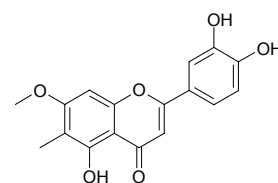
C₂₈H₄₂O₆ (474.64). Colorless needles (acetone–MeOH), mp 130–131°C, [α]_D²⁵ = +58.5° (c = 0.13, CHCl₃). **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 283mol ratio/32pmol TPA, control β-Carotene, IC₅₀ = 400mol ratio/32pmol TPA). **Source:** LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.066%dw). **Ref:** 4737.

**14566 7-O-Methyl luteolin-6-C-β-D-glucoside**

C₂₂H₂₄O₁₁ (464.43). **Source:** QING YE DAN *Swertia mileensis*. **Ref:** 1358.

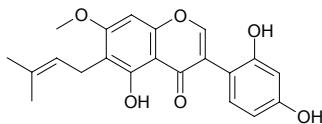
**14567 6-C-Methyl luteolin 7-methyl ether**

C₁₇H₁₄O₆ (314.30). Yellow needle crystals (CHCl₃–MeOH), mp 297–298°C. **Pharm:** Antibacterial (oral pathogens: *Streptococcus mutans*, MIC = 250μg/mL, control Chlorhexidine gluconate, MIC = 1.25μg/mL; *Fusobacterium nucleatum*, MIC = 375μg/mL, Chlorhexidine gluconate, MIC = 2.5μg/mL). **Source:** BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root). **Ref:** 5418.

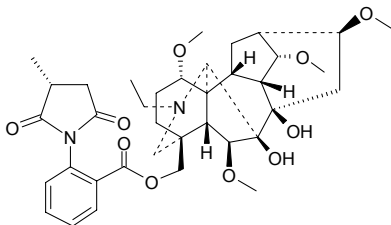


14568 7-O-Methyluteone

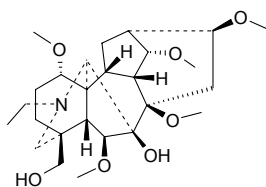
5,2',4'-Trihydroxy-7-methoxy-6-(3-methylbut-2-enyl)isoflavone C₂₁H₂₀O₆ (368.39). Amorphous solid. Source: KEN NI YA CI TONG *Erythrina burttii* (stem cortex). Ref: 3387.

**14569 Methyllycaconitine**

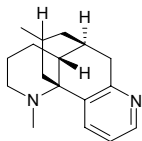
[21019-30-7] C₃₇H₅₀N₂O₁₀ (682.82). mp 128°C. Pharm: Neuromuscular blocker. Source: E MEI CUI QUE HUA *Delphinium omeiense*, GAO FEI YAN CAO *Delphinium elatum*, CUI QUE HUA *Delphinium grandiflorum*. Ref: 6, 658, 2190.

**14570 8-Methyllycoctonine**

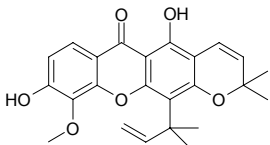
C₂₆H₄₃NO₇ (481.64). Colorless powder, mp 120~123°C Source: ZI HUA GAO WU TOU *Aconitum excelsum*. Ref: 689.

**14571 N-Methyllycodine**

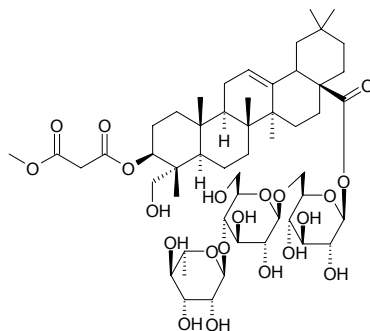
C₁₇H₂₄N₂ (256.39). Source: GUO JIANG LONG *Lycopodium complanatum*. Ref: 1410.

**14572 10-O-Methylacluraxanthone**

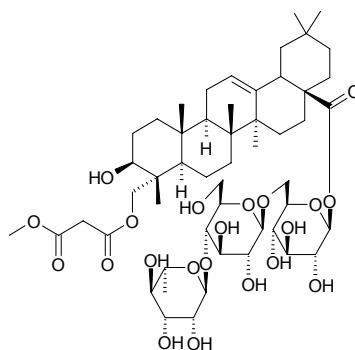
C₂₄H₂₄O₆ (408.46). Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 3.49µg/mL, control Mithramycin, ED₅₀ = 0.06µg/mL, HT29 ED₅₀ = 5.25µg/mL, control Mithramycin, ED₅₀ = 0.08µg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia limii*. Ref: 4094.

**14573 3-O-methyl malonylhederagenin 28-O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

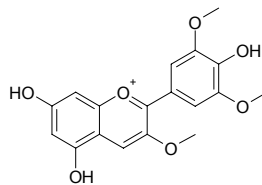
C₅₂H₈₂O₂₁ (1043.22). White powder, mp 168~170°C. Source: LUAN YE YIN LIAN HUA *Anemone begoniifolia*. Ref: 862.

**14574 23-O-Methyl malonylhederagenin 28-O-α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

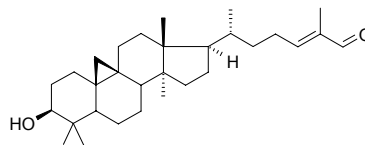
C₅₂H₈₂O₂₁ (1043.22). White powder, mp 175~178°C. Source: LUAN YE YIN LIAN HUA *Anemone begoniifolia*. Ref: 862.

**14575 3-O-Methyl malvidin**

C₁₈H₁₇O₇⁺ (345.33). Source: *Vaccinium ashei* (fruit). Ref: 4240.

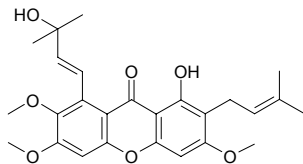
**14576 14-Methylmangiferolic aldehyde**

C₃₀H₄₈O₂ (440.72). mp 66~70°C. Source: MANG GUO SHU PI *Mangifera indica*. Ref: 6.

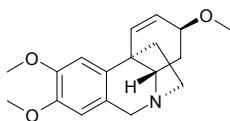


14577 6-O-Methylmangostanin

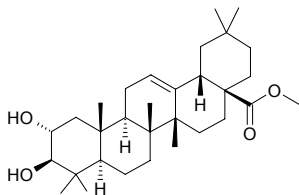
$C_{26}H_{30}O_7$ (454.52). Pale yellow gum, $[\alpha]_D^{20} = +14.0^\circ$ ($c = 0.43$, $CHCl_3$). Source: DAO NIAN ZI *Garcinia mangostana*. Ref: 1964.

**14578 O-Methylmaritidine**

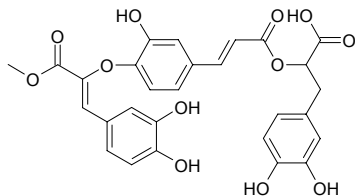
$C_{18}H_{23}NO_3$ (301.39). Source: *Cyrtanthus falcatus*. Ref: 4952.

**14579 Methyl maslinate**

$C_{31}H_{50}O_4$ (486.74). Source: PI PA YE *Eriobotrya japonica*. Ref: 1325.

**14580 Methyl melitrate A**

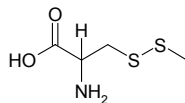
$C_{28}H_{24}O_{12}$ (552.50). Freeze-dried light-brown powder, $[\alpha]_D^{20} = +40.5^\circ$ ($c = 0.2$, MeOH). Source: YAO YONG DAN SHEN *Salvia officinalis*. Ref: 2388.

**14581 Methyl mercaptan**

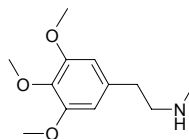
[74-93-1] CH_4S (48.11). mp $-123^\circ C$, bp $5.8-6.2^\circ C$. Pharm: Antifungal; Insecticidal. Source: LAI FU ZI *Raphanus sativus*, XIANG YE *Pelargonium graveolens*, LAI FU *Raphanus sativus*. Ref: 6, 658.

**14582 S-Methyl mercapto-L-cysteine**

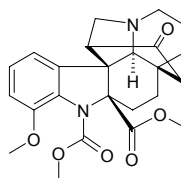
$C_4H_9NO_2S_2$ (167.25). Source: DA SUAN *Allium sativum*. Ref: 1393.

**14583 N-Methylmescaline**

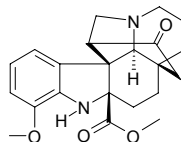
$C_{12}H_{19}NO_3$ (225.29). Pharm: Causes mental illness; similar action with mescaline. Source: AN LU LONG SHE LAN *Lophophora williamsii*, LUO TUO CI *Alhagi pseudalhagi*. Ref: 658.

**14584 Methyl 12-methoxychanofrucosinate**

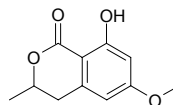
$C_{24}H_{28}N_2O_6$ (440.50). Source: HUANG HONG SE RUI MU *Kopsia flavida* (leaf). Ref: 5157.

**14585 Methyl 12-methoxy-N7-decarbomethoxychanofrucosinate**

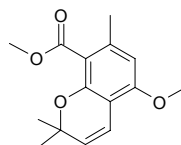
$C_{22}H_{26}N_2O_4$ (382.46). Source: HUANG HONG SE RUI MU *Kopsia flavida* (leaf). Ref: 5157.

**14586 3-Methyl-6-methoxy-8-hydroxy-3,4-dihydroisocoumarin**

$C_{11}H_{12}O_4$ (208.22). mp $75-76^\circ C$. Source: HU LUO BO *Daucus carota* var. *sativa*. Ref: 6.

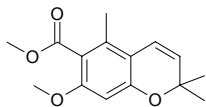
**14587 Methyl 5-methoxy-7-methyl-2,2-dimethyl-2H-1-chromene-8-carboxylate**

$C_{15}H_{18}O_4$ (262.31). Oil. Pharm: Antifungal (*Cladosporium sphaerospermum*, 100µg, weak activity; *Cladosporium cladosporioides*, 100µg, weak activity). Source: *Peperomia villipetiola* (stem). Ref: 5256.

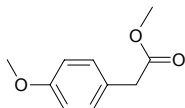


14588 Methyl 7-methoxy-5-methyl-2,2-dimethyl-2H-1-chromene-6-carboxylate

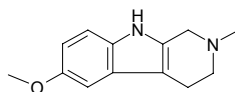
$C_{15}H_{18}O_4$ (262.31). Oil. **Pharm:** Antifungal (*Cladosporium sphaerospermum*, 100 μ g, weak activity; *Cladosporium cladosporioides*, 100 μ g, weak activity). **Source:** *Peperomia villipetiola* (stem). **Ref:** 5256.

**14589 Methyl 4-methoxyphenylacetate**

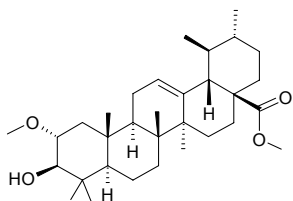
$C_{10}H_{12}O_3$ (180.21). Colorless liquid. **Source:** *Gloeophyllum odoratum*. **Ref:** 3972.

**14590 2-Methyl-6-methoxy-1,2,3,4-tetrahydro- β -carboline**

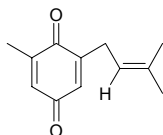
$C_{13}H_{16}N_2O$ (216.29). **Source:** NI BO ER LV RONG HAO *Meconopsis nepaulensis*. **Ref:** 1513.

**14591 Methyl 2 α -methoxyursolate**

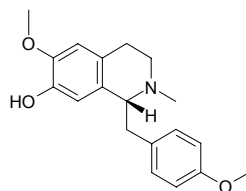
$C_{32}H_{52}O_4$ (500.77). **Source:** JIN YING ZI *Rosa laevigata*. **Ref:** 1326.

**14592 2-Methyl-6-(3-methyl-2-butenyl)benzo-1,4-quinone**

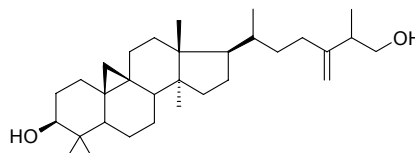
$C_{12}H_{14}O_2$ (190.24). **Pharm:** Antibacterial (*Escherichia coli* ATCC 11775, MIC > 6250 μ g/mL, control Ciproflaxin, MIC = 0.63 μ g/mL; *Klebsiella pneumoniae* NCTC 9633, MIC > 6250 μ g/mL, Ciproflaxin, MIC = 0.20 μ g/mL; *Enterococcus faecalis* ATCC 29212, MIC = 39 μ g/mL, Ciproflaxin, MIC = 6.25 μ g/mL; *Staphylococcus aureus* ATCC 6538, MIC = 39 μ g/mL, Ciproflaxin, MIC = 0.31 μ g/mL; *Bacillus cereus* ATCC 11778, MIC = 18 μ g/mL, Ciproflaxin, MIC = 2.5 μ g/mL; *Staphylococcus epidermidis* ATCC 2223, MIC = 9.8 μ g/mL, Ciproflaxin, MIC = 1.25 μ g/mL; *Cryptococcus neoformans* ATCC 90112, MIC = 70 μ g/mL, Ciproflaxin, MIC = 2.5 μ g/mL); antifungal (*Candida albicans* ATCC10231, MIC = 130 μ g/mL; control Amphotericin B, MIC = 1.25 μ g/mL). **Source:** XUAN CHUI GEN NAI LA CAO *Gunnera perpensa* (leaf and stem). **Ref:** 5314.

**14593 4'-Methyl-N-methylcoclaurine**

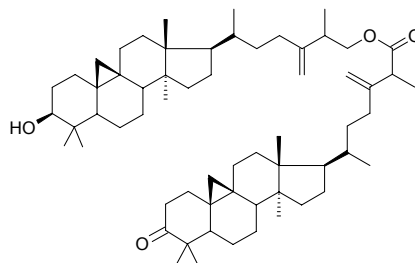
$C_{19}H_{23}NO_3$ (313.40). **Source:** LIAN ZI XIN *Nelumbo nucifera*. **Ref:** 1315.

**14594 14-Methyl-24-methylene-dihydromangiferodiol**

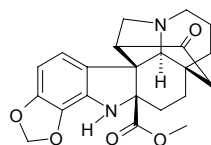
$C_{31}H_{52}O_2$ (456.76). **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

**14595 (14-Methyl-24-methylene-dihydroman-giferodiol)-14-methyl-24-methylene dihydromangiferonate**

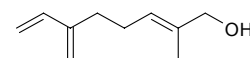
$C_{62}H_{98}O_4$ (907.47). **Source:** MANG GUO SHU PI *Mangifera indica*. **Ref:** 6.

**14596 Methyl 11,12-methylenedioxy-N₁-decarbomethoxychanofrucosinate**

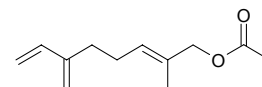
$C_{22}H_{24}N_2O_5$ (396.45). **Source:** HUANG HONG SE RUI MU *Kopsia flavida* (leaf). **Ref:** 5157.

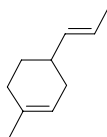
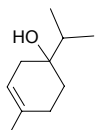
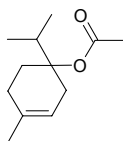
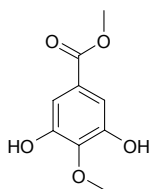
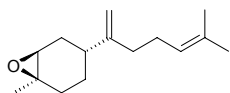
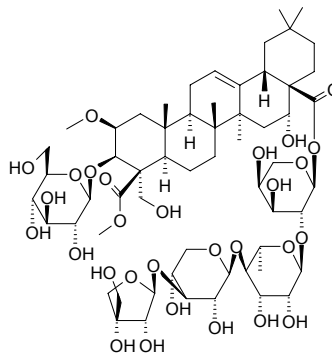
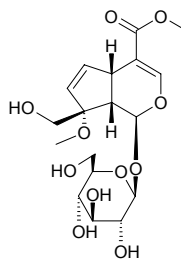
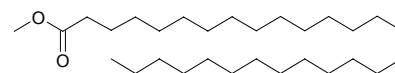
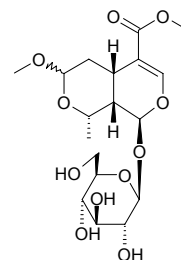
**14597 2-Methyl-6-methylene-2,7-octadienol**

$C_{10}H_{16}O$ (152.24). **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 6.

**14598 2-Methyl-6-methylene-2,7-octadienol acetate**

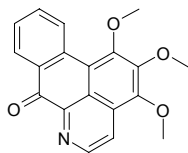
$C_{12}H_{18}O_2$ (194.28). **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 6.



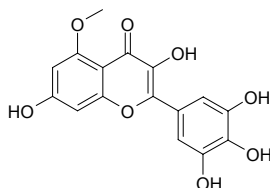
14599 1-Methyl-4-methylethenylcyclohexeneC₁₀H₁₆ (136.24). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.**14600 4-Methyl-1-(1-methylethyl)-3-cyclohexene-1-ol**C₁₀H₁₈O (154.25). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 1379.**14601 4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol-acetate**C₁₂H₂₀O₂ (196.29). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.**14602 Methyl-4-O-methylgallate**[24093-81-0] C₉H₁₀O₅ (198.17). Colorless rhombic crystals (benzene), mp 136°C. Pharm: Cytotoxic (KB, ED₅₀ = 8.62µg/mL). Source: JIN QIAN KU YE CAO *Chrysosplenium grayanum*, WAN SHOU JU *Tagetes erecta*. Ref: 900.**14603 1-Methyl-4-(5-methyl-1-methylenehex-4-enyl)-7-oxabicyclo [4.1.0]heptane**C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁵ = +43.5° (c = 2.7, CHCl₃). Pharm: Antimycobacterial (*Mycobacterium intracellulare*, IC₅₀ = 10.0µg/mL, control Ciprofloxacin, IC₅₀ = 0.25µg/mL). Source: *Pimpinella aurea*. Ref: 5465.**14604 Methyl 2-O-methyl platycogenate A**C₅₉H₉₄O₂₉ (1267.39). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1382.**14605 8-O-Methylmonotropein methyl ester**C₁₈H₂₆O₁₁ (418.40). Amorphous powder, [α]_D²⁵ = -114.1° (c = 0.377, MeOH), artifact. Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (leaf). Ref: 4408.**14606 Methyl montanate**C₂₉H₅₈O₂ (438.78). Source: QIN JIAO *Gentiana macrophylla*. Ref: 1357.**14607 7-O-Methyl morroniside**C₁₈H₂₈O₁₁ (420.42). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. Ref: 1346.

14608 O-Methylmoschatoline

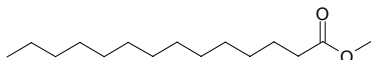
$C_{19}H_{15}NO_4$ (321.34). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem). Ref: 3083.

**14609 5-Methylmyricetin**

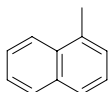
Myricetin-5-methyl ether $C_{16}H_{12}O_8$ (332.27). Source: YING SHAN HONG *Rhododendron mucronulatum*, DU JUAN HUA *Rhododendron simsii*. Ref: 6.

**14610 Methyl myristate**

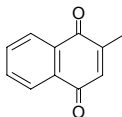
Methyl tetradecanoate [124-10-7] $C_{15}H_{30}O_2$ (242.41). Source: DANG SHEN *Codonopsis pilosula*, QIANG HUO *Notopterygium incisum*. Ref: 2, 1354.

**14611 1-Methyl naphthalene**

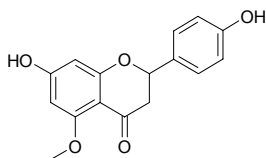
$C_{11}H_{10}$ (142.20). Source: XIA YE XIANG PU *Typha angustifolia*. Ref: 1402.

**14612 2-Methyl-1,4-naphthoquinone**

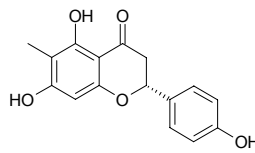
$C_{11}H_8O_2$ (172.19). Source: HU TAO REN *Juglans regia*. Ref: 1423.

**14613 5-O-Methylnaringenin**

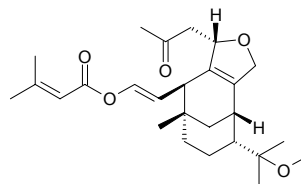
$C_{16}H_{14}O_5$ (286.29). Pharm: Cytotoxic inactive (Colon26-L5, HT1080, 100 μ mol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.0216%). Ref: 3042.

**14614 6-C-Methylnaringenin**

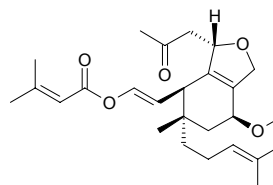
$C_{16}H_{14}O_5$ (286.29). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253.

**14615 15-O-Methylnovibsanin F**

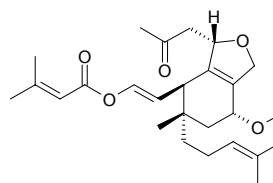
$C_{26}H_{38}O_5$ (430.59). Colorless paste, $[\alpha]_D^{23} = +75.5^\circ$ ($c = 0.12$, $CHCl_3$). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

**14616 2-O-Methylnovibsanin H**

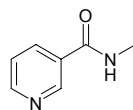
$C_{26}H_{38}O_5$ (430.59). Colorless oil, $[\alpha]_D^{23} = +320.0^\circ$ ($c = 0.22$, alcohol). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

**14617 2-O-Methylnovibsanin I**

$C_{26}H_{38}O_5$ (430.59). Colorless paste, $[\alpha]_D^{23} = +51.5^\circ$ ($c = 0.28$, $CHCl_3$). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

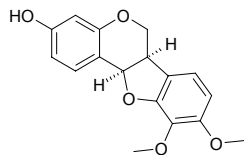
**14618 N'-Methyl nicotineamide**

$C_7H_8N_2O$ (136.15). Source: QUN DAI CAI *Undaria pinnatifida*. Ref: 1305.

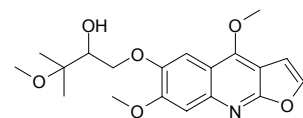


14619 Methylnisoslin

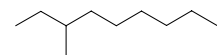
(-)-Methylnisoslin [73340-41-7] $C_{17}H_{16}O_5$ (300.31). Colorless acicular crystals (hexane-ethyl acetate), mp 180-181°C, $[\alpha]_D^{25} = -219^\circ$ ($c = 0.465$, chloroform). **Pharm:** Platelet aggregation inhibitor (due to arachidonic acid, 170 μ mol/L). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*, MU XU *Medicago sativa*. **Ref:** 900, 1266.

**14620 Methylnkobisine**

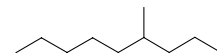
$C_{19}H_{23}NO_6$ (361.40). Needles, mp 168-169°C, $[\alpha]_D = -2.8^\circ$ ($c = 0.04$, MeOH). **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**14621 3-Methylnonane**

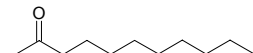
[5911-04-6] $C_{10}H_{22}$ (142.29). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.

**14622 4-Methylnonane**

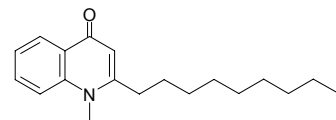
[17301-94-9] $C_{10}H_{22}$ (142.29). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**14623 Methyl-n-nonylketone**

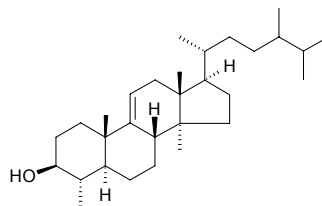
[112-12-9] $C_{11}H_{22}O$ (170.30). bp 228°C. **Source:** YU XING CAO *Houttuynia cordata* (dried aerial parts: content = 0.0052%^[5508]). **Ref:** 2, 5508.

**14624 1-Methyl-2-nonyl-4(1H)-quinolone**

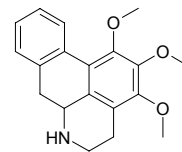
$C_{19}H_{27}NO$ (285.43). **Pharm:** Leukotriene biosynthesis inhibitor (hmn polymorphonuclear granulocytes, $IC_{50} = 12.1 \mu\text{mol/L}$, control Zileuton, $IC_{50} = 10.4 \mu\text{mol/L}$ ^[5031]). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 1334, 5031.

**14625 24-Methyl-31-norlanost-9(11)-enol**

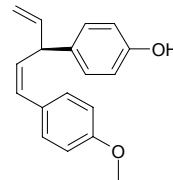
$C_{30}H_{52}O$ (428.75). **Source:** GOU QI ZI *Lycium chinense*. **Ref:** 1371, 1372, 1373, 1374.

**14626 (-)-O-Methyl-N-norlirinine**

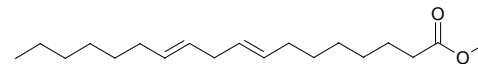
$C_{19}H_{21}NO_3$ (311.38). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). **Ref:** 3083.

**14627 (-)-4'-O-Methyl-nyasol**

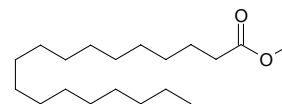
$C_{18}H_{18}O_2$ (266.34). Colorless gum, $[\alpha]_D^{25} = -42.2^\circ$ ($c = 0.64$, $CHCl_3$). **Source:** KUAI GEN CHUI TOU JU *Cremanthodium ellisii*. **Ref:** 773.

**14628 Methyl octadeca-8,11-dienoate**

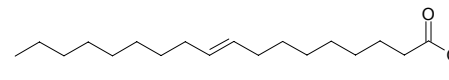
$C_{19}H_{34}O_2$ (294.48). **Source:** XIA YE XIANG PU *Typha angustifolia*. **Ref:** 1402.

**14629 Methyl octadecanoate**

Methyl octadecanoate [112-61-8] $C_{19}H_{38}O_2$ (298.51). **Source:** DANG SHEN *Codonopsis pilosula*, LIAO DONG CONG MU *Aralia elata*, MU ZEI MA HUANG *Ephedra equisetina*, QIANG HUO *Notopterygium incisum*. **Ref:** 2, 660, 1450, 1354.

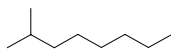
**14630 Methyl 9-octadecenoate**

Methyl oleate $C_{19}H_{36}O_2$ (296.50). **Source:** HUA DONG LAN CI TOU *Echinops grijssii*. **Ref:** 1389.

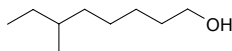


14631 2-Methyl octane

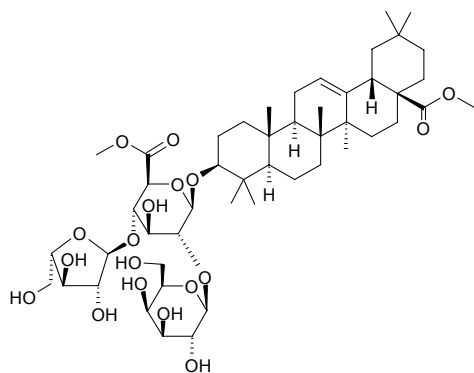
[3221-61-2] C₉H₂₀ (128.26). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**14632 6-Methyl-1-octanol**

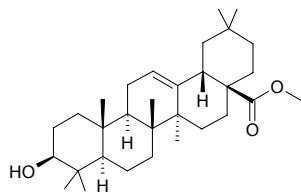
C₉H₂₀O (144.26). Source: LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*]. Ref: 1474.

**14633 Methyl oleanate-(3)-[α-L-arabinofuranosyl-(1→4)]-[(β-D-galactopyranosyl-(1→2))-methyl-(β-D-glucopyranoside) uronate]**

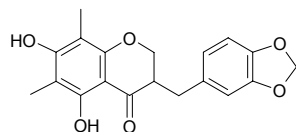
C₄₇H₇₂O₁₈ (925.09). Source: TONG HUA GEN *Tetrapanax papyriferus*. Ref: 1514.

**14634 Methyl oleanolate**

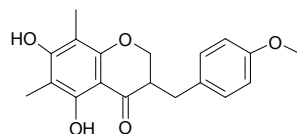
C₃₁H₅₀O₃ (470.74). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**14635 Methyl ophiopogonanone A**

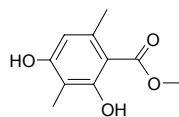
[74805-92-8] C₁₉H₁₈O₆ (342.35). Needles (CCl₄), mp 166–167°C, [α]_D¹⁹ = –72° (c = 1, CHCl₃). Source: MAI DONG *Ophiopogon japonicus*. Ref: 1397.

**14636 Methyl ophiopogonanone B**

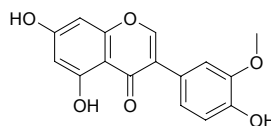
[74805-91-7] C₁₉H₂₀O₅ (328.37). Needles (CCl₄), mp 159–160°C, [α]_D¹⁷ = –53° (c = 1, Dioxane). Source: MAI DONG *Ophiopogon japonicus*. Ref: 1397.

**14637 Methyl-β-oricinol carboxylate**

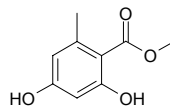
C₁₀H₁₂O₄ (196.20). Source: HONG SHI ER *Umbilicaria hypococcinea*, JIN SI SHUA *Lethariella cladonioides*, JIN YAO DAI *Lethariella zahlbruckneri*. Ref: 660, 1503.

**14638 3'-O-Methylorobol**

5,7,4'-Trihydroxy-3'-methoxyisoflavone C₁₆H₁₂O₆ (300.27). Pharm: Cytotoxic (HSC-2 cells, CC₅₀ = 0.16mmol/L; HGF, CC₅₀ > 0.67mmol/L)^[3025]; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), IC₅₀ = 55μmol/L, control Silybin IC₅₀ = 41μmol/L)^[4095]. Source: JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], GOU JI *Cudrania cochinchinensis* (root: yield = 0.000046%dw)^[3025], GUANG BU DING GONG TENG *Erycibe expansa*. Ref: 1487, 3025, 4095.

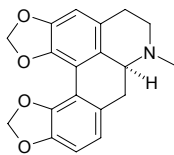
**14639 Methyl orsellinate**

C₉H₁₀O₄ (182.18). Pharm: Phytotoxin (inhibits radicle growth, *Amaranthus hypochondriacus*, IC₅₀ = 920μmol/L, control 2,4-D, IC₅₀ = 180μmol/L; *Echinochloa crusgalli*, IC₅₀ = 310μmol/L, control 2,4-D, IC₅₀ = 230μmol/L)^[3433]; CaM interactor (cAMP phosphodiesterase inhibitor, IC₅₀ = 8.1μmol/L, control Chlorpromazine, IC₅₀ = 10.2μmol/L, interacted with bovine-brain calmodulin and inhibited the activation of the calmodulin- dependent enzyme cAMP phosphodiesterase)^[3433]. Source: FU CHUI FE LAO JU *Flourensia cernua*, HONG SHI ER *Umbilicaria hypococcinea*, SHAN MAO ER *Dianella ensifolia*. Ref: 660, 1489, 3433.

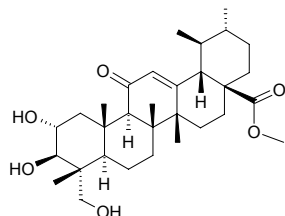


14640 N-Methyl ovigerine

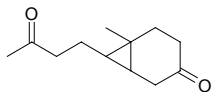
N-Methyl hernovine [13087-94-0] C₁₉H₁₇NO₄ (323.35). Source: HEI KE NAN *Lindera megaphylla*. Ref: 1508.

**14641 Methyl 11-oxoasiatate**

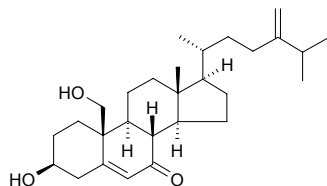
C₃₁H₄₈O₆ (516.72). Source: LONG NAO GAO XIANG *Dryobalanops aromatica*. Ref: 1511.

**14642 6-Methyl-7-(3-oxobutyl)-bicyclo[4.1.0]heptan-3-one**

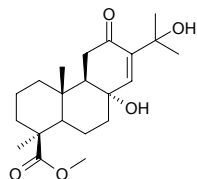
C₁₂H₁₈O₂ (194.28). Colorless oil. Source: JIANG HUANG *Curcuma longa*. Ref: 2497.

**14643 24-Methyl-7-oxocholesta-5,24(28)-diene-3β,19-diol**

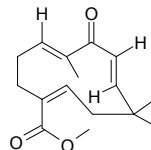
C₂₈H₄₄O₃ (428.66). Pharm: Cytotoxic inactive (hmn prostate cancer LNCaP cell line, EC₅₀ = 29.5 μg/mL). Source: *Nephthea chabroli*. Ref: 4375.

**14644 Methyl 12-oxo-8α,15-dihydroxyabiet-13-en-19-oate**

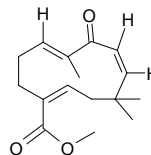
C₂₁H₃₂O₅ (364.49). Colorless oil, [α]_D = +20.1° (c = 0.66, CH₂Cl₂). Pharm: Cytotoxic (A549, IC₅₀ > 5 μg/mL, control Cycloheximide, IC₅₀ = 0.1 μg/mL; H116, IC₅₀ = 2.5 μg/mL, Cycloheximide, IC₅₀ = 0.1 μg/mL; PSN1, IC₅₀ = 5 μg/mL, Cycloheximide, IC₅₀ = 0.01 μg/mL; T98G, IC₅₀ = 5 μg/mL, Cycloheximide, IC₅₀ = 2.5 μg/mL; SKBR3, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.05 μg/mL). Source: FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). Ref: 3851.

**14645 Methyl 8-oxo-α-humul-6E,9E-dien-12-oate**

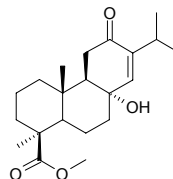
C₁₆H₂₂O₃ (262.35). Colorless oil. Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 11%, *L. paucicostata*, mortality = 61%); cytotoxic (P₃₈₈, IC₅₀ = 40 μmol/L, control *cis*-Platin, IC₅₀ = 8 μmol/L; A549, IC₅₀ = 40 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L; HT29, IC₅₀ > 40 μmol/L, *cis*-Platin, IC₅₀ = 16 μmol/L; MEL-28, IC₅₀ > 40 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L). Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

**14646 Methyl 8-oxo-α-humul-6E,9Z-dien-12-oate**

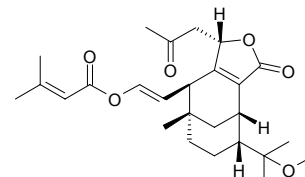
C₁₆H₂₂O₃ (262.35). Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 25%, *L. paucicostata*, mortality = 41%); cytotoxic (P₃₈₈, IC₅₀ = 20 μmol/L, control *cis*-Platin, IC₅₀ = 8 μmol/L; A549, IC₅₀ = 20 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L; HT29, IC₅₀ > 40 μmol/L, *cis*-Platin, IC₅₀ = 16 μmol/L; MEL-28, IC₅₀ = 20 μmol/L, *cis*-Platin, IC₅₀ = 8 μmol/L). Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

**14647 Methyl 12-oxo-8α-hydroxyabiet-13-en-19-oate**

C₂₁H₃₂O₄ (348.49). Colorless oil, [α]_D = +18.3° (c = 0.91, CH₂Cl₂). Pharm: Cytotoxic (A549, IC₅₀ > 5 μg/mL, control Cycloheximide, IC₅₀ = 0.1 μg/mL; H116, IC₅₀ = 2.5 μg/mL, Cycloheximide, IC₅₀ = 0.1 μg/mL; PSN1, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.01 μg/mL; T98G, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 2.5 μg/mL; SKBR3, IC₅₀ > 5 μg/mL, Cycloheximide, IC₅₀ = 0.05 μg/mL). Source: FEI NI JI CI BAI *Juniperus phoenicea* (leaf), XIANG CI BAI FEI ZHOU BIAN ZHONG *Juniperus thurifera* var. *africana* (leaf). Ref: 3851.

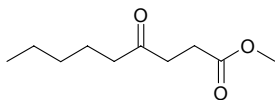
**14648 15-O-Methyl-18-oxoneovibsanin F**

C₂₆H₃₆O₆ (444.57). Colorless paste, [α]_D²³ = +155.9° (c = 0.08, alcohol). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

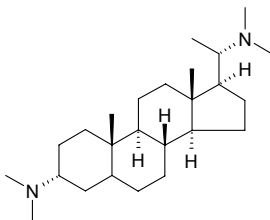


14649 Methyl 4-oxononanoate

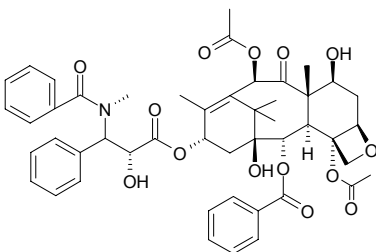
$C_{10}H_{18}O_3$ (186.25). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*].
Ref: 660.

**14650 N-Methyl pachysamine A**

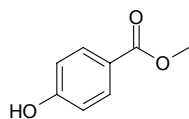
$C_{25}H_{46}N_2$ (374.66). mp 165.5~167.0°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**14651 N-Methylpaclitaxel**

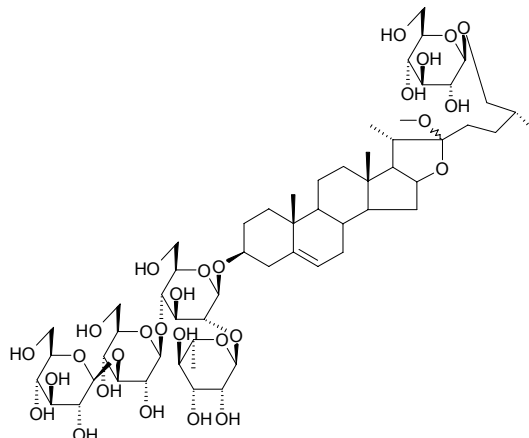
N-Methyltaxol; Taxuspinnanane I $C_{48}H_{53}NO_{14}$ (867.96). $[\alpha]_D = -71^\circ$ (CHCl₃).
Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**14652 Methylparaben**

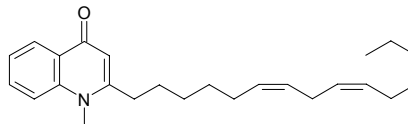
4-Hydroxybenzoic acid methyl ester $C_8H_8O_3$ (152.15). Source: KAI KOU JIAN
Tupistra chinensis (underground part)^[4676], RI BEN HUANG BAI
Phellodendron japonicum (leaf), TAI WAN HUANG BO *Phellodendron*
amurense var. *wilsonii* (leaf: yield = 0.00017%dw)^[4722], TAI WAN PU GONG
YING *Taraxacum formosanum* (fresh root), ZANG HONG HUA *Crocus sativus*
(stigma: yield = 0.00022%dw). Ref: 4233, 4488, 4502, 4653, 4676, 4722.

**14653 Methyl parvifloside**

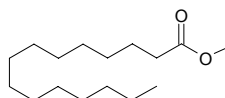
$C_{58}H_{96}O_{28}$ (1241.40). White powder, mp 234°C (dec), $[\alpha]_D^{19.9} = -64.29^\circ$ ($c = 0.267$, pyridine). Source: XIAO HUA DUN YE SHU YU *Dioscorea parviflora* (fresh rhizome). Ref: 4858.

**14654 1-Methyl-2-[(6Z,9Z)-6,9-pentadecadienyl]-4(1H)-quinolone**

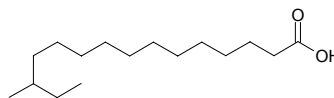
$C_{25}H_{35}NO$ (365.56). Pharm: Leukotriene biosynthesis inhibitor (hmn polymorphonuclear granulocytes, IC₅₀ = 12.3 μmol/L, zileuton, IC₅₀ = 10.4 μmol/L). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877, 5031.

**14655 Methyl pentadecanoate**

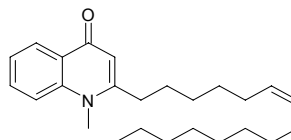
Pentadecanoic acid methyl ester [7132-64-1] $C_{16}H_{32}O_2$ (256.43). Source:
CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG
SHEN *Codonopsis pilosula*. Ref: 2.

**14656 13-Methyl pentadecanoic acid**

[20121-96-4] $C_{16}H_{32}O_2$ (256.43). Source: BAI ZHI *Angelica dahurica* [Syn.
Angelica porphyrocaulis]. Ref: 2.

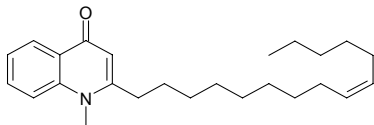
**14657 1-Methyl-2-[(Z)-6-pentadecenyl]-4(1H)-quinolone**

$C_{25}H_{37}NO$ (367.58). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877.

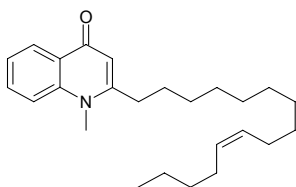


14658 1-Methyl-2-[(Z)-9-pentadecenyl]-4(1H)-quinolone

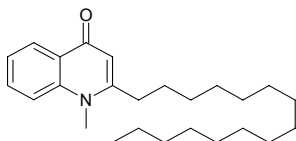
$C_{25}H_{37}NO$ (367.58). Colorless oil. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 9, 877.

**14659 1-Methyl-2-[(Z)-10-pentadecenyl]-4(1H)-quinolone**

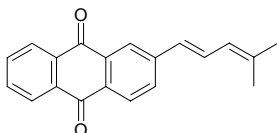
$C_{25}H_{37}NO$ (367.58). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877.

**14660 1-Methyl-2-pentadecyl-4(1H)-quinolone**

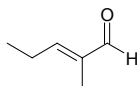
$C_{25}H_{39}NO$ (369.60). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2.

**14661 (E)-2-(4-Methylpenta-1,3-dienyl)anthraquinone**

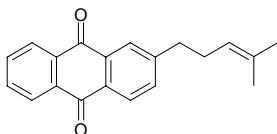
$C_{20}H_{16}O_2$ (288.35). Source: HU MA GEN *Sesamum indicum*. Ref: 3465.

**14662 2-Methyl-2-pentenal**

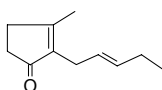
1-Methyl-3-ethylacrolein [623-36-9] $C_6H_{10}O$ (98.15). Source: XI XIANG CONG *Allium schoenoprasum*. Ref: 6.

**14663 2-(4-Methylpent-3-enyl)anthraquinone**

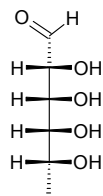
$C_{20}H_{18}O_2$ (290.37). Source: HU MA GEN *Sesamum indicum*. Ref: 3465.

**14664 3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one**

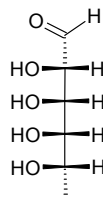
$C_{11}H_{16}O$ (164.25). Source: JIN YIN HUA *Lonicera japonica*. Ref: 1378.

**14665 Methyl pentose I**

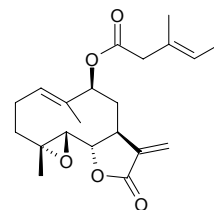
$C_6H_{12}O_5$ (164.16). Source: MU LI ROU *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*. Ref: 6.

**14666 Methyl pentose II**

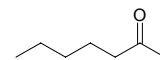
$C_6H_{12}O_5$ (164.16). Source: MU LI ROU *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*. Ref: 6.

**14667 9β-(3-Methyl-pentoyl-3-ene)-parthenolide**

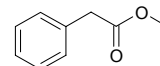
$C_{21}H_{28}O_5$ (360.45). White powder, $[\alpha]_D^{25} = -32.0^\circ$. Source: MAO RUI HUA YE TU MU XIANG *Inula verbascifolia*. Ref: 2041.

**14668 Methyl-n-pentyl ketone**

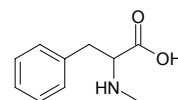
[110-43-0] $C_7H_{14}O$ (114.19). bp 151.45°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*]. Ref: 6.

**14669 Methyl phenylacetate**

[101-41-7] $C_9H_{10}O_2$ (150.18). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**14670 N-Methylphenylalanine**

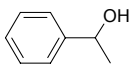
$C_{10}H_{13}NO_2$ (179.22). Colorless acicular crystals. Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 2180.



14671 Methyl phenyl carbinol

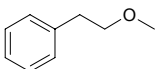
[98-85-1] C₈H₁₀O (122.17). bp (+) 98–99°C/20mmHg, (–) 93°C/14mmHg, (±) 100°C/18mmHg. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*].

Ref: 6.

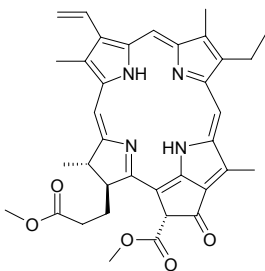
**14672 Methyl (phenyl ethyl) ether**

[3558-60-9] C₉H₁₂O (136.20). Source: LU DOU LE HUA *Pandanus tectorius*.

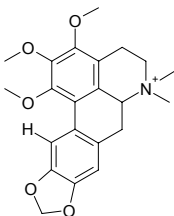
Ref: 6.

**14673 Methyl pheophorbide a**

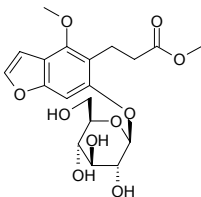
C₃₆H₃₈N₄O₅ (606.73). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf). Ref: 4722.

**14674 N-Methylphoebine**

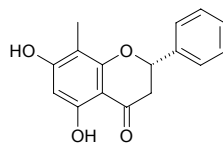
C₂₂H₂₆NO₅⁺ (384.46). Colorless amorphous powder, [α]_D²² = +37.1° (c = 0.70, MeOH). Source: XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). Ref: 3794.

**14675 Methylpicraquassioside A**

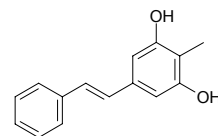
C₁₉H₂₄O₁₀ (412.40). Glassy powder, mp 67–69°C, [α]_D²⁵ = –58.82° (c = 0.34, MeOH). Source: CHOU CAO *Ruta graveolens* (dried aerial parts). Ref: 3073.

**14676 8-Methylpinocembrin**

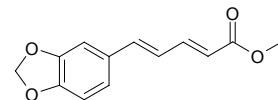
C₁₆H₁₄O₄ (270.29). [α]_D²⁵ = –46.2° (c = 0.42, acetone). Source: YANG PU TAO YE *Syzygium samarangense*. Ref: 4100.

**14677 4'-Methylpinosylvin**

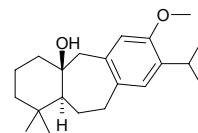
C₁₅H₁₄O₂ (226.28). Source: *Stemona* cf. *pirrei* (underground part). Ref: 3751.

**14678 Methyl piperate**

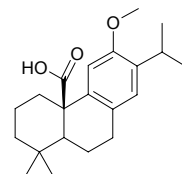
C₁₃H₁₂O₄ (232.24). Colorless crystals. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (54.1±7.4)mm, control, length = (118.6±16.2)mm, InRt = 54.4%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (84.9±9.4)mm, control, length = (89.5±9.8)mm, InRt = 5.1%). Source: *Piper chaba* (fruit). Ref: 4935.

**14679 12-O-Methylpisiferanol**

C₂₁H₃₂O₂ (316.49). Oil, [α]_D²⁶ = +28° (c = 2.5, MeOH). Source: HONG GUI *Chamaecyparis formosensis*. Ref: 2315.

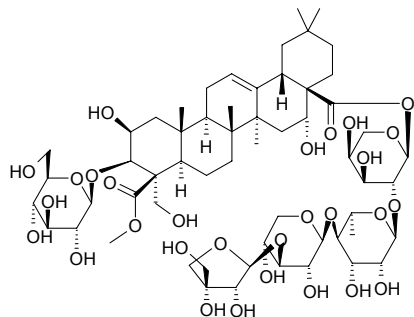
**14680 O-Methylpisiferic acid**

C₂₁H₃₃O₃ (330.47). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 12.5μg/mL; *Bacillus subtilis*, MIC = 12.5μg/mL). Source: RI BEN HUA BAI *Chamaecyparis pisifera* (leaf). Ref: 4144.

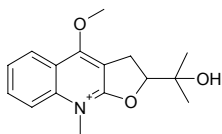


14681 Methyl platyconate A

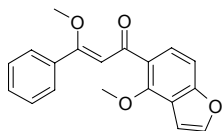
$C_{58}H_{92}O_{29}$ (1253.36). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1382.

**14682 N-Methylplatydesmin**

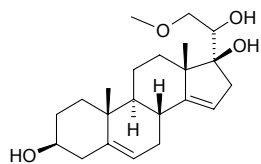
$C_{16}H_{20}NO_3^+$ (274.34). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**14683 O-Methylpongamol**

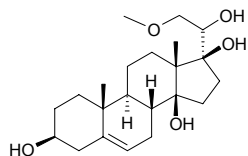
[80158-88-9] $C_{19}H_{16}O_4$ (308.33). Yellowish oil. Pharm: Nematocide (0.1mg/mL cultured with *Toxocara canis* larvae, after 6h RM = 70, after 24h RM = 33). Source: HUI YE GEN *Tephrosia purpurea*. Ref: 1040, 1188.

**14684 21-O-Methyl-5,14-pregnadiene-3β,14β,17β,21-tetrol**

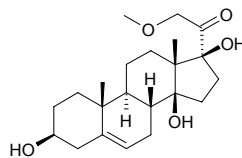
$C_{22}H_{34}O_5$ (378.51). Source: XIANG JIA PI *Periploca sepium*. Ref: 1359.

**14685 21-O-Methyl-5-pregnene-3β,14β,17β,20,21-pentol**

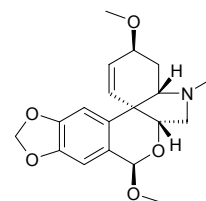
$C_{22}H_{36}O_5$ (380.53). Source: XIANG JIA PI *Periploca sepium*. Ref: 1359.

**14686 21-O-Methyl-5-pregnene-3β,17β,21-tetrol-20-one**

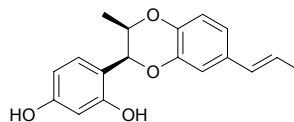
$C_{22}H_{34}O_5$ (362.51). Source: XIANG JIA PI *Periploca sepium*. Ref: 1359.

**14687 6-O-Methylpretazettine**

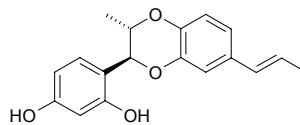
$C_{19}H_{23}NO_5$ (345.40). Colorless amorphous solid, mp 199–201°C. Source: YA MA XUN BAI HE *Eucharis amazonica* (dried bulb and leaf). Ref: 4325.

**14688 4-[(2S,3R)-3-Methyl-7-((E)-1-propenyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,3-benzenediol**

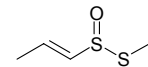
$C_{18}H_{18}O_4$ (298.34). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 2534.

**14689 4-[(2S,3S)-3-Methyl-7-((E)-1-propenyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,3-benzenediol**

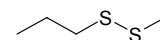
$C_{18}H_{18}O_4$ (298.34). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 2534.

**14690 Methyl-1-propenyl thiosulfinate**

1-Propenyl methyl thiosulfinate $C_4H_8OS_2$ (136.24). Source: DA SUAN *Allium sativum*, JIU CAI *Allium tuberosum*, YANG CONG *Allium cepa*. Ref: 1392, 2975, 2978.

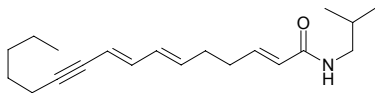
**14691 Methyl propyl disulfide**

[2179-60-4] $C_4H_{10}S_2$ (122.25). Source: DA SUAN *Allium sativum*, XI XIANG CONG *Allium schoenoprasum*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 6.

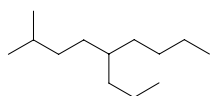


14692 (E,E,E)-N-(2-Methylpropyl)-hexadeca-2,6,8-trien-10-ynamide

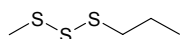
$C_{20}H_{31}NO$ (301.48). **Pharm:** Pesticide. **Source:** XI LA SHI CAO *Achillea ageratifolia*. **Ref:** 658.

**14693 2-Methyl-5-propyl nonane**

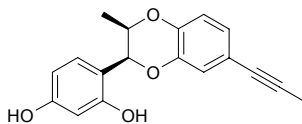
$C_{13}H_{28}$ (184.37). **Source:** ROU CONG RONG *Cistanche deserticola*. **Ref:** 2.

**14694 Methyl propyl trisulfide**

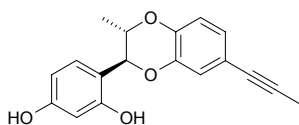
[17619-36-2] $C_4H_{10}S_3$ (154.32). **Source:** DA SUAN *Allium sativum*. **Ref:** 2.

**14695 4-[(2S,3R)-3-Methyl-7-(1-propynyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,3-benzenediol**

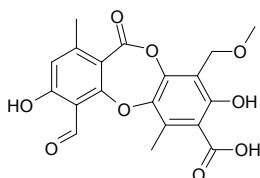
$C_{18}H_{16}O_4$ (296.33). **Source:** RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). **Ref:** 2534.

**14696 4-[(2S,3S)-3-Methyl-7-(1-propynyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,3-benzenediol**

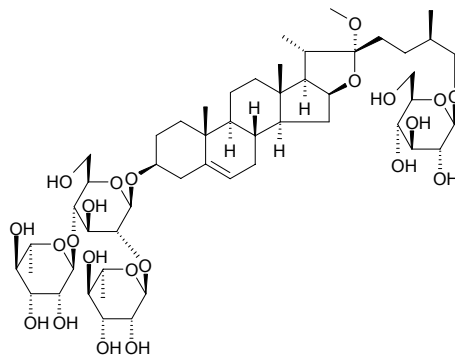
$C_{18}H_{16}O_4$ (296.33). **Source:** RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). **Ref:** 2534.

**14697 9'-(O-Methyl)protocetraric acid**

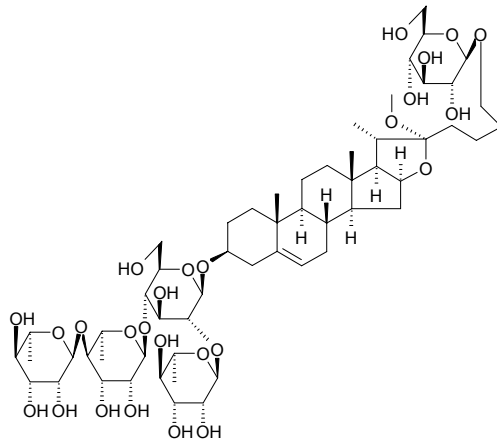
$C_{19}H_{16}O_9$ (388.33). Yellow amorphous powder. **Pharm:** Cytotoxic (L1210, $IC_{50} > 100 \mu\text{g/mL}$, control Etoposide, $IC_{50} = (0.3 \pm 0.2) \mu\text{g/mL}$; 3LL, $IC_{50} > 100 \mu\text{g/mL}$, Etoposide, $IC_{50} = (2.6 \pm 0.8) \mu\text{g/mL}$; DU145, $IC_{50} > 100 \mu\text{g/mL}$, Etoposide, $IC_{50} = (0.9 \pm 0.2) \mu\text{g/mL}$; MCF7, $IC_{50} > 100 \mu\text{g/mL}$, Etoposide, $IC_{50} = (12.2 \pm 0.5) \mu\text{g/mL}$; K562, $IC_{50} > 100 \mu\text{g/mL}$, Etoposide, $IC_{50} = (2.1 \pm 1.3) \mu\text{g/mL}$; U251, $IC_{50} > 100 \mu\text{g/mL}$, Etoposide, $IC_{50} = (0.28 \pm 0.06) \mu\text{g/mL}$). **Source:** ZONG JUAN SHI RUI *Cladonia convoluta*. **Ref:** 5027.

**14698 22-O-Methylprotodioscin**

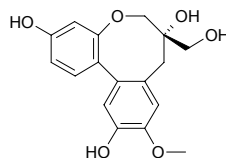
$C_{52}H_{86}O_{22}$ (1063.25). **Pharm:** Cytotoxic (hmn, leukemia cell HL-60, inhibits biosynthesis of DNA, RNA and protein and cellular growth); bone resorption inhibitor (PTH-induced in a bone organ culture system)^[4692]; antifungal inactive (*Candida albicans*, *Candida glabrata*, *Candida tropicalis*, $MIC > 200 \mu\text{g/mL}$, inactive)^[2560]. **Source:** HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.036%)^[4692], LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], SHI DIAO BAI *Asparagus officinalis*, TIAN QIE ZI *Solanum indicum*, YUAN SHU YU *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*]. **Ref:** 660, 1462, 2165, 2560, 4692, 4696, 4946.

**14699 Methyl protodiosgenin tetraglycoside**

26-O-β-D-Glucopyranosyl-22-methoxy-3β,26-dihydroxy-25(R)-furost-5-en-3-O-α-L-rhamnopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→4)-[α-L-rhamnopyranosyl-(1→2)]-β-D-glucopyranoside $C_{58}H_{96}O_{26}$ (1209.40). White amorphous powder, $[\alpha]_D^{20} = -100^\circ$ ($c = 0.05$, MeOH). **Pharm:** Antifungal inactive (hmn pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*, $MIC > 200 \mu\text{g/mL}$)^[4931]. **Source:** ZONG LV PI *Trachycarpus fortunei*, *Dioscorea cayenensis* (rhizome). **Ref:** 1519, 4931.

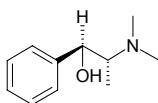
**14700 10-O-Methyl protosappanin B**

$C_{17}H_{18}O_6$ (318.33). **Source:** SU MU *Caesalpinia sappan*. **Ref:** 1329.

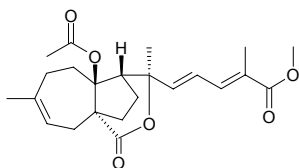


14701 D-N-Methyl-pseudoephedrine

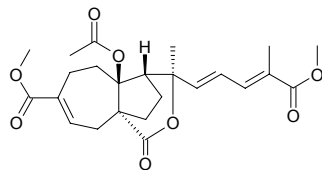
$C_{11}H_{17}NO$ (179.26). Source: LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 2 origins = 0.010%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: mean content of 4 origins = 0.007%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: mean content of 2 origins = trace)^[5508], SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.015%)^[5508], XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = trace)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content = trace)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = trace)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: mean content of 3 origins = trace)^[5508]. Ref: 2, 660, 5508.

**14702 Methyl pseudolarate A**

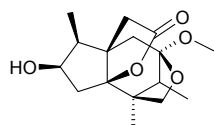
$C_{23}H_{30}O_6$ (402.49). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00010%dw). Ref: 4637.

**14703 Methyl pseudolarate B**

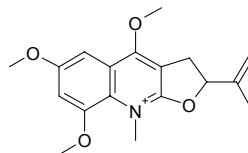
$C_{24}H_{30}O_8$ (446.50). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.0069%dw). Ref: 4637.

**14704 7-O-Methylpseudomajucin**

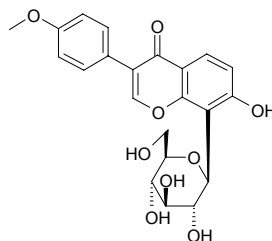
$C_{16}H_{24}O_5$ (296.37). $[\alpha]_D^{23} = -35.6^\circ$ ($c = 1.08$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00021%dw). Ref: 4697.

**14705 O-Methylptelefolonium**

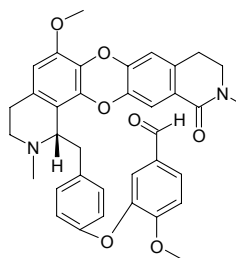
$C_{18}H_{22}NO_4^+$ (316.38). Pharm: Antibacterial; antifungal; cytotoxic (animal tumor and plant tumor); plant growth inhibitor. Source: YU JU *Ptelea trifoliata*. Ref: 658.

**14706 4'-O-Methylpuerarin**

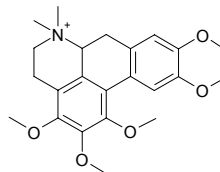
$C_{22}H_{22}O_9$ (430.42). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content of 6 origins = 1.12%)^[5508], GAN GE TENG GEN *Pueraria thomsonii* (root: content = 0.359%)^[5508]. Ref: 2, 660, 5508.

**14707 O-Methyl punjabine**

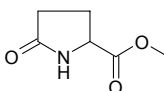
[58194-22-2] $C_{32}H_{34}N_2O_7$ (606.68). Source: TAI WAN QIAN JIN TENG *Stephania sasakii*. Ref: 1314.

**14708 N-Methylpurpurine**

1,2,3,9,10-Substituted aporphine alkaloid $C_{23}H_{30}NO_5^+$ (400.50). Colorless crystals, mp 187.5~190.0°C, $[\alpha]_D^{22} = +25.1^\circ$ ($c = 0.51$, MeOH). Source: XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). Ref: 3794.

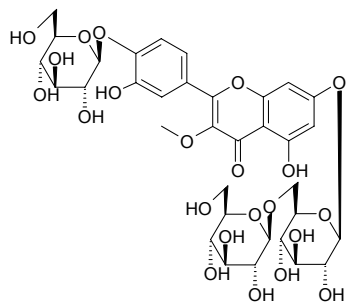
**14709 Methyl pyroglutamate**

$C_6H_9NO_3$ (143.14). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2487.

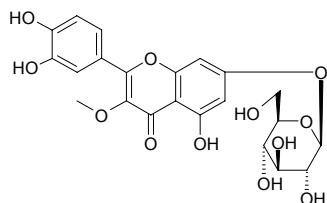


14710 3-O-Methylquercetin-7-O-diglucoside-4'-O-glucoside

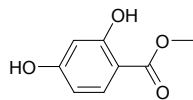
$C_{34}H_{42}O_{22}$ (802.70). Source: PING ER XIAO CAO *Ophioglossum vulgatum*. Ref: 6.

**14711 3-O-Methyl quercetin 7-O-β-D-glucopyranoside**

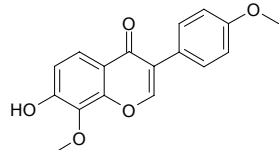
$C_{22}H_{22}O_{12}$ (478.41). Pharm: DPPH scavenger ($SC_{50} = 6.1 \mu\text{mol/L}$); antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC_{50} for Formazan formation activity = $3.9 \mu\text{mol/L}$). Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00015%). Ref: 4247.

**14712 Methyl-β-resorcylate**

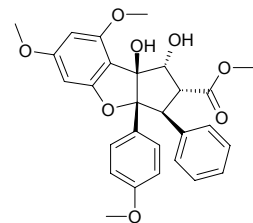
Methyl-2,4-dihydroxy-benzoate [2150-47-2] $C_8H_8O_4$ (168.15). mp 118–119°C. Source: CI HUAI HUA *Robinia pseudoacacia*. Ref: 6.

**14713 8-o-Methylreyusi**

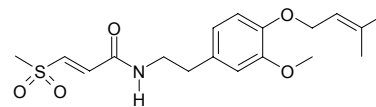
$C_{17}H_{14}O_5$ (298.30). Colorless needles, mp 221°C. Source: KUN MING JI XUE TENG *Milletia dielsiana*. Ref: 2205.

**14714 Methyl rocaglate**

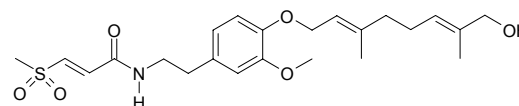
Aglafolin; Anticancer cyclopenta[b] benzofuran PMV70P691-71 $C_{28}H_{28}O_8$ (492.53). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.18 \text{mg/L}$, $LC_{50} = 1.3 \text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06 \text{mg/L}$, $LC_{50} = 0.7 \text{mg/L}$)^[3978], cytotoxic (Ishikawa anti-E2 bioassay)^[5038]. Source: MI ZI LAN *Aglaiia odorata*, *Aglaiia spectabilis* (bark), *Aglaiia duperreana*, *Aglaiia ponapensis*. Ref: 1521, 3978, 4047, 5038.

**14715 O-Methylsakambullin**

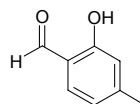
(E)-3-(Methylsulfonyl)-propenoic acid 4-(3-methyl-2-butenyloxy)-3-methoxyphenethyl amide $C_{18}H_{25}NO_5S$ (367.47). Colorless crystals (Et₂O), mp 136–138°C. Source: LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). Ref: 3956.

**14716 O-Methylsakerinol A**

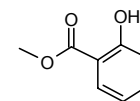
(E)-3-(Methylsulfonyl)-propenoic acid (2E,6E)-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-3-methoxyphenethyl amide $C_{23}H_{33}NO_6S$ (451.59). Colorless crystals (Et₂O), mp 125–127°C. Source: LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). Ref: 3956.

**14717 4-Methyl salicylaldehyde**

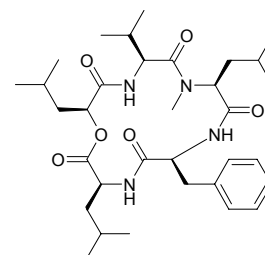
[698-27-1] $C_8H_8O_2$ (136.15). mp 60–61°C. Source: WU JIA PI *Acanthopanax gracilistylus*. Ref: 6.

**14718 Methyl salicylate**

[119-36-8] $C_8H_8O_3$ (152.15). bp 223°C. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], QING MING HUA *Beaumontia grandiflora*, QU MAI *Dianthus superbus*, SANG YE *Morus alba*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 6, 11.

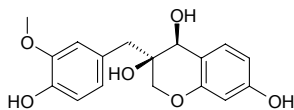
**14719 N-Methylsansalvamide**

$C_{33}H_{52}N_4O_6$ (600.81). Colorless oil, $[\alpha]_D = -132^\circ$ ($c = 0.415$, CH_2Cl_2). Pharm: Cytotoxic (in vitro, NCI hm tumor cell line screen, mean $GI_{50} = 8.3 \mu\text{mol/L}$). Source: *Fusarium* sp. Ref: 5087.

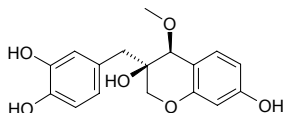


14720 3'-O-Methyl sappanol

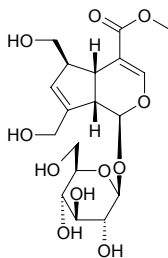
[111254-21-8] C₁₇H₁₈O₆ (318.33). Source: SU MU *Caesalpinia sappan*. Ref: 1302.

**14721 4-O-Methyl sappanol**

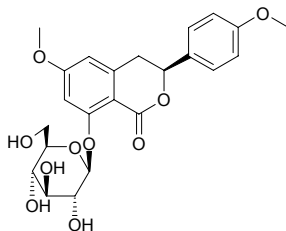
[104778-16-7] C₁₇H₁₈O₆ (318.33). Source: SU MU *Caesalpinia sappan*. Ref: 1304, 4494.

**14722 6-O-Methylscandoside methyl ester**

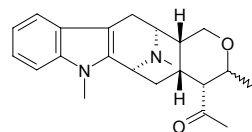
C₁₈H₂₆O₁₁ (418.40). Amorphous powder, [α]_D²⁵ = -83.0° (c = 0.532, MeOH), artifact. Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (leaf). Ref: 4408.

**14723 6-O-Methylscorzocreticoside I**

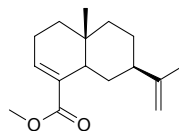
C₂₃H₂₆O₁₀ (462.46). Colorless needles, >206°C (dec), [α]_D²⁰ = -12° (c = 0.0685, MeOH). Pharm: Antioxidant inactive (DPPH scavenger, IC₅₀ > 200 μg/mL; control Ascorbic acid, IC₅₀ = (2.49 ± 0.32) μg/mL; Caffeic acid, IC₅₀ = (1.78 ± 0.03) μg/mL; Chlorogenic acid, IC₅₀ = (1.28 ± 0.38) μg/mL). Source: SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). Ref: 5307.

**14724 N(4)-Methyl-N(4),21-seco-talpinine**

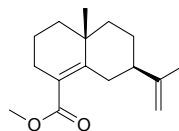
C₂₂H₂₈N₂O₂ (352.48). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0033%). Ref: 3020.

**14725 (-)-Methyl selina-3,11-dien-14-oate**

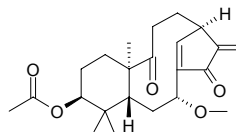
C₁₆H₂₄O₂ (248.37). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**14726 (+)-Methyl selina-4,11-dien-14-oate**

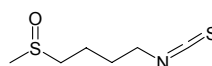
C₁₆H₂₄O₂ (248.37). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**14727 o-Methylshikoccin**

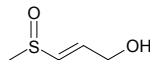
C₂₃H₃₂O₅ (388.51). mp 168–171°C, [α]_D²⁵ = -4.5° (c = 0.40, MeOH). Source: XI SI GUO XIANG CHA CAI *Isodon shikokiana* var. *occidentalis*. Ref: 4067.

**14728 4-Methylsulfinyl butyl isothiocyanate**

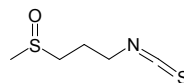
Sulforaphane. [4478-93-7] C₆H₁₁NOS₂ (177.29). Pharm: Antibacterial (gram-negative and gram-positive bacteria); antineoplastic (EAC); antifungal; anthelmintic (wileworm, 1mg/mL, 99% killed in 48h; trichomonad and amoeba); antitrypanosomal (2.5 μg/mL); antiviral (Mengo virus, coxsackie-B virus, pseudolyssa virus and poxvirus *in vitro*, 200 μg/mL). Source: GAN LAN *Brassica oleracea* var. *capitata*, QUN XIN CAI *Cardaria draba*, MAO DU XING CAI *Lepidium draba*. Ref: 661, 1322.

**14729 trans-3-Methylsulfinyl-2-propenol**

C₄H₈O₂S (120.17). Pale yellow oil, [α]_D²⁵ = +22° (c = 0.69, MeOH). Pharm: Antitubercular inactive (*Mycobacterium tuberculosis* H37Ra); antimalarial inactive (*Plasmodium falciparum*, EC₅₀ > 20 μg/mL). Source: TAI GUO NIU XU HUA *Clinacanthus siamensis* (leaf). Ref: 4410.

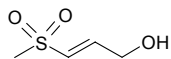
**14730 3-Methylsulfinyl propyl isothiocyanate**

C₅H₉NOS₂ (163.26). Source: GAN LAN *Brassica oleracea* var. *capitata*. Ref: 1322.

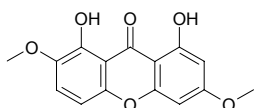


14731 trans-3-Methylsulfonyl-2-propenol

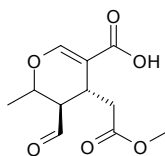
$C_4H_8O_3S$ (136.17). Pale yellow needles (MeOH), mp 57–60°C. **Pharm:** Antitubercular inactive (*Mycobacterium tuberculosis* H37Ra); antimalarial inactive (*Plasmodium falciparum*, $EC_{50} > 20\mu\text{g/mL}$). **Source:** TAI GUO NIU XU HUA *Clinacanthus siamensis* (leaf). **Ref:** 4410.

**14732 2-O-Methylswertianin**

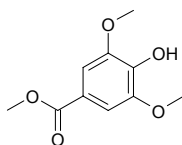
Swertiaperennin $C_{15}H_{12}O_6$ (288.26). **Pharm:** Antihepatotoxin (animal model); vasodilator inactive^[5434]. **Source:** KU HE LONG DAN *Gentiana kochiana*, RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 658, 5434.

**14733 Methyl syramuraldehyde**

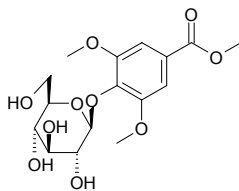
$C_{11}H_{14}O_6$ (242.23). Colorless oleaginous, $[\alpha]_D^{22} = -87.4^\circ$ ($c = 2$, chloroform). **Source:** BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*]. **Ref:** 70.

**14734 Methyl syringate**

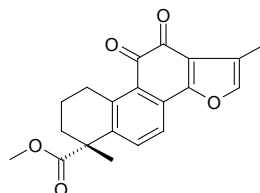
$C_{10}H_{12}O_5$ (212.20). **Source:** TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). **Ref:** 4488.

**14735 Methyl syringate 4-O-beta-D-glucopyranoside**

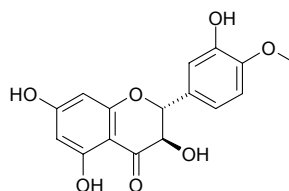
$C_{16}H_{22}O_{10}$ (374.35). Colorless needles (MeOH), mp 91–93°C, $[\alpha]_D^{24} = -20^\circ$ ($c = 0.9$, MeOH). **Source:** HUI QIN *Pimpinella anisum* (fruit). **Ref:** 3402.

**14736 Methyl tanshinonate**

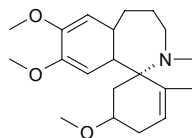
[135355-72-5] $C_{20}H_{18}O_5$ (338.36). mp 175–176°C. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.014%^[5508]), GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.048%^[5508]), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.015%^[5508]), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.005%^[5508]), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.003%^[5508]), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.001%^[5508]), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.099%^[5508]), NI DAN SHEN *Salvia sinica* (dried root: content = trace)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.034%^[5508]), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.012%^[5508]), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = %^[5508]). **Ref:** 2, 5508.

**14737 4'-O-Methyltaxifolin**

$C_{16}H_{14}O_7$ (318.29). **Pharm:** Cytotoxic (HeLa, $IC_{50} = 32.5\mu\text{g/mL}$, control Mitomycin C, $IC_{50} = 1.7\mu\text{g/mL}$). **Source:** TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4092.

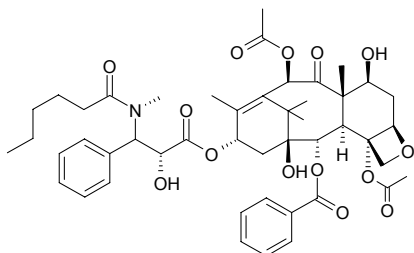
**14738 O-Methyltaxodine**

$C_{20}H_{29}NO_3$ (331.46). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2.

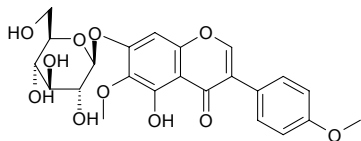


14739 N-Methyltaxol C

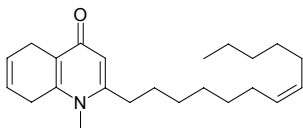
[153083-53-5] $C_{47}H_{59}NO_{14}$ (861.99). $[\alpha]_D = -52.7^\circ$ ($CHCl_3$), mp 225~228°C, $[\alpha]_D = -52.7^\circ$ (MeOH), mp 134°C. **Pharm:** Antineoplastic (ox brain, tubulin assay, concentration of tubulin 1.0mg/mL, activity closes to that of taxol, $ED_{50} = 1.91\mu\text{mol/L}$, control taxol, $ED_{50} = 1.15\mu\text{mol/L}$). **Source:** JIANG GUO ZI SHAN *Taxus baccata*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. **Ref:** 662, 1649.

**14740 4'-Methyltectorigenin 7-glucoside**

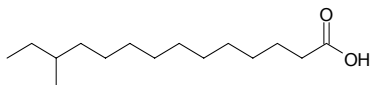
$C_{23}H_{24}O_{11}$ (476.44). Yellow amorphous powder. **Source:** AI JI ZHONG ZHI YUAN WEI *Iris carthaliniae*. **Ref:** 1880.

**14741 1-Methyl-2-[(Z)-7-tridecenyl]-4(1H)-quinolone**

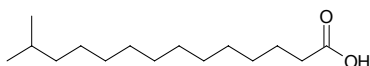
$C_{23}H_{33}NO$ (339.53). Colorless oil. **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 9, 877, 2085.

**14742 12-Methyl tetradecanoic acid**

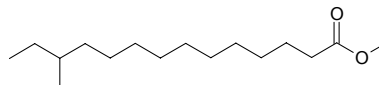
[5502-94-3] $C_{15}H_{30}O_2$ (242.41). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2.

**14743 13-Methyl tetradecanoic acid**

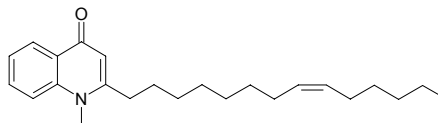
[2485-71-4] $C_{15}H_{30}O_2$ (242.41). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. **Ref:** 6.

**14744 12-Methyl tetradecanoic acid methyl ester**

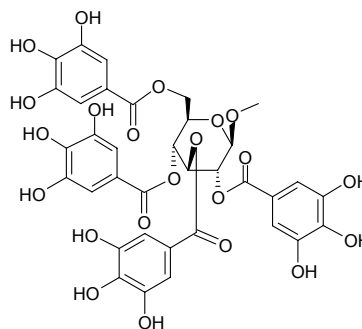
$C_{16}H_{32}O_2$ (256.43). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 1354.

**14745 1-Methyl-2-(Z)-8-tetradecenyl-4(1H)-quinolone**

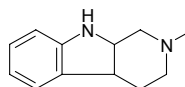
$C_{24}H_{35}NO$ (353.55). Colorless oil. **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 9.

**14746 Methyl 2,3,4,6-tetra-O-galloyl-beta-D-glucopyranoside**

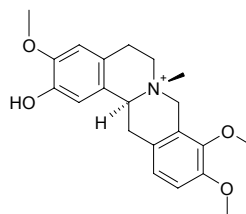
$C_{35}H_{30}O_{22}$ (802.62). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 1327.

**14747 2-Methyl-1,2,3,4-tetrahydro-beta-carboline**

$C_{12}H_{16}N_2$ (188.27). mp 216~218°C. **Source:** SHA ZAO SHU PI *Elaeagnus angustifolia*. **Ref:** 6.

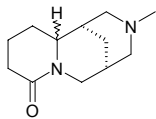
**14748 (S)-trans-N-Methyltetrahydrocolumbamine**

$C_{21}H_{26}NO_4$ (356.45). Yellow columnar crystals (as iodine salt), mp 202~203°C, $[\alpha]_D^{24} = -103.4^\circ$ ($c = 1.2$, $CHCl_3$). **Source:** HAI NAN QING NIU DAN *Tinospora hainanensis*. **Ref:** 687.

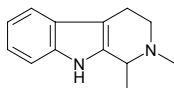


14749 N-Methyltetrahydrocytisine

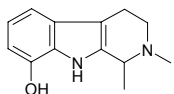
$C_{12}H_{20}N_2O$ (208.31). Source: HONG DOU *Ormosia hosiei*. Ref: 6, 1521.

**14750 N₆-Methyltetrahydroharman**

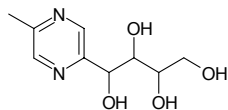
$C_{13}H_{16}N_2$ (200.29). mp 112°C. Source: HONG MU JI CAO *Desmodium gangeticum*. Ref: 6.

**14751 N₆-Methyltetrahydroharmol**

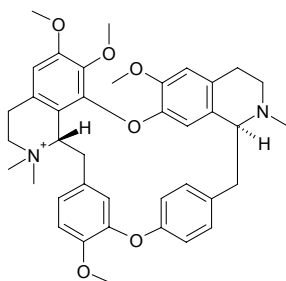
$C_{13}H_{16}N_2O$ (216.29). mp 268~270°C. Source: SHA ZAO SHU PI *Elaeagnus angustifolia*. Ref: 6.

**14752 2-Methyl-5-(1',2',3',4'-tetrahydroxybutyl)pyrazine**

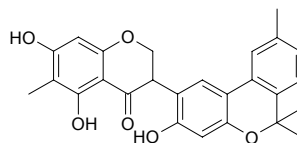
Pedatisectine E $C_9H_{14}N_2O_4$ (214.22). White granular crystals, mp 202~203°C, $[\alpha]_D^{17} = -87.8^\circ$ ($c = 0.165$, DMSO). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 477.

**14753 (+)-2-N-Methyltetrandrine**

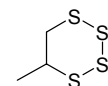
$C_{39}H_{45}N_2O_6^+$ (637.80). Source: FANG JI *Stephania tetrandra*. Ref: 2.

**14754 6-Methyltetrapterol A**

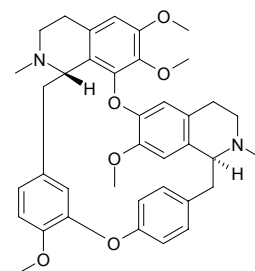
2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(3-hydroxy-6,6,9-trimethyl-6H-dibenz[*b,d*]pyran-2-yl) 4*H*-1-benzopyran-4-one $C_{26}H_{24}O_6$ (432.48). Source: DAN HUI BAI SHAN MA HUANG *Desmodium canum*. Ref: 3444.

**14755 5-Methyl-1,2,3,4-tetrathiane**

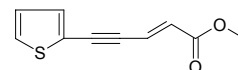
$C_3H_6S_4$ (170.34). Source: XIE BAI *Allium macrostemon*. Ref: 1391.

**14756 (+)-O-Methylthalicberine**

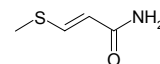
[5096-71-9] $C_{38}H_{42}N_2O_6$ (622.77). mp 186~187°C, $[\alpha]_D^{19} = +244.6^\circ$. Pharm: Anti-inflammatory; antihypertensive (rbt, *in vivo*). Source: XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii*, YUE GUI XIAO BO *Berberis laurina*. Ref: 6, 658, 1521, 1648.

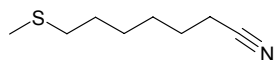
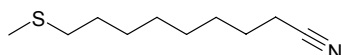
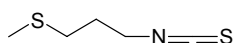
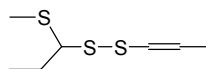
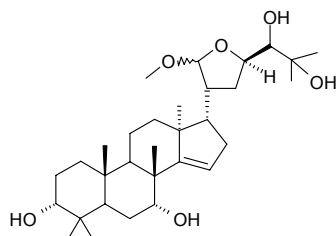
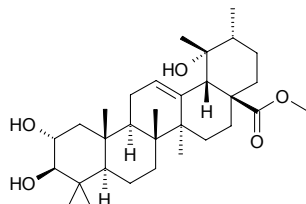
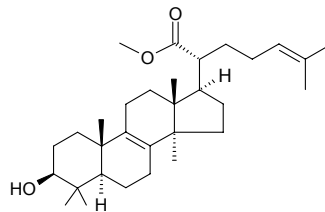
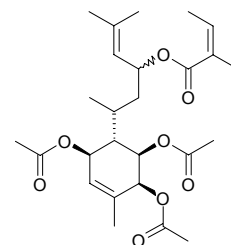
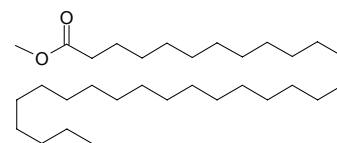
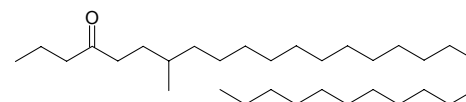
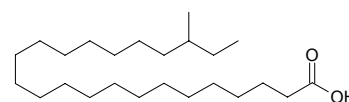
**14757 Methyl trans-5-(2-thienyl)-2-penten-4-yn-1-oate**

$C_{10}H_8O_2S$ (192.24). mp 67°C. Source: YANG SHI CAO *Achillea millefolium*. Ref: 6.

**14758 trans-3-Methylthioacrylamide**

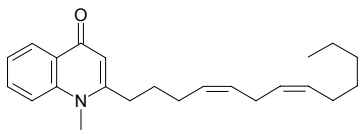
C_4H_7NOS (117.17). Pale yellow solid, mp 116~118°C Pharm: Antitubercular (*Mycobacterium tuberculosis* H37Ra, Microplate Alamar Blue Assay, MIC = 200µg/mL, control Isoniazide, MIC = 0.040~0.090µg/mL, Kanamycin sulfate, MIC = 2.0~5.0µg/mL); antimalarial inactive (*Plasmodium falciparum*, EC₅₀ > 20µg/mL). Source: TAI GUO NIU XU HUA *Clinacanthus siamensis* (leaf). Ref: 4410.



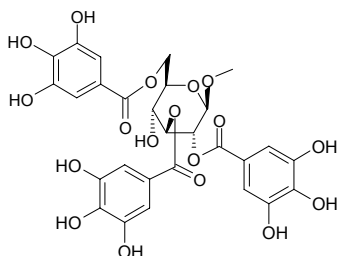
14759 6-Methyl-1-thio-2,4-cyclohexadieneC₆H₈S (112.19). Source: DA SUAN *Allium sativum*. Ref: 2.**14760 7-Methylthioheptanenitrile**C₈H₁₅NS (157.28). Source: DOU BAN CAI *Nasturtium officinale*. Ref: 1323.**14761 9-Methylthiononanenitrile**C₁₀H₁₉NS (185.33). Source: DOU BAN CAI *Nasturtium officinale*. Ref: 1323.**14762 3-Methylthiopropyl isothiocyanate**[505-79-3] C₅H₉NS₂ (147.26). bp 120.5–122.0°C/12mmHg. Source: JIE ZI *Brassica juncea*. Ref: 6.**14763 1-(1-Methyl thiopropyl)-1-propenyl disulfide**C₇H₁₄S₃ (194.38). Source: A WEI *Ferula assafoetida*. Ref: 1351, 1352.**14764 21-O-Methyl toosendanpentol**C₃₁H₅₂O₆ (520.76). Needles (Me₂CO–hexane), mp 106–108°C, [α]_D = –52.1° (c = 0.36, MeOH). Source: CHUAN LIAN ZI *Melia toosendan*. Ref: 1343, 1521.**14765 Methyl tormentate**C₃₁H₅₀O₅ (502.74). Source: JIN YING ZI *Rosa laevigata*. Ref: 1326.**14766 Methyl trametenolate**C₃₁H₅₀O₃ (470.74). Source: BAO PI GU *Lentinus lepideus*. Ref: 1501.**14767 3-Methyl-1-{2-[(1R*,2S*,5R*,6R*)-2,5,6-tri(acetyloxy)-4-methyl-3-cyclohexenyl]-propyl}-2-butenyl (Z)-2-methyl-2-butenoate**C₂₆H₃₈O₈ (478.59). Pharm: Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100µg/cm² mixture with 3b, oedema = (4.6±0.5)mg, p<0.05, reduction = 41%, Indomethacin oedema = (3.4±0.3)mg, p<0.05, reduction = 56%); effect on leukocytes infiltration (control E.A. at 6h = (24.6±1.6)U/mL/min, 100µg/cm² mixture with 3b, E.A. at 6h = (18.2±0.5)U/mL/min, Reduce = 26%, p<0.05). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985.**14768 Methyl triacontanate**[629-83-4] C₃₁H₆₂O₂ (466.84). mp 71.5°C. Source: SHAN TAO JING BAI PI *Prunus davidiana*, TAO JING BAI PI *Prunus persica*. Ref: 6, 660.**14769 7-Methyl-4-triacontanone**C₃₁H₆₂O (450.84). Source: XIA YE XIANG PU *Typha angustifolia*. Ref: 2, 660.**14770 21-Methyl tricosanoic acid**C₂₄H₄₈O₂ (368.65). Source: XIE BAI *Allium macrostemon*. Ref: 1390.

14771 1-Methyl-2-(4Z,7Z)-4,7-tridecadienyl-4(1H)-quinolinone

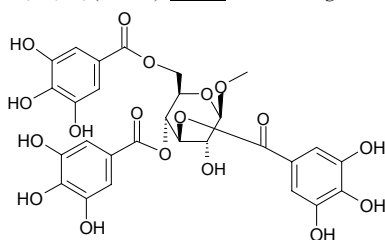
$C_{23}H_{31}NO$ (337.51). **Pharm:** Leukotriene biosynthesis inhibitor (hmn polymorphonuclear granulocytes, $IC_{50} = 10.1 \mu\text{mol/L}$, zileuton, $IC_{50} = 10.4 \mu\text{mol/L}$)^[5031]. **Source:** WU ZHU YU *Evodia rutaecarpa* (fruit). **Ref:** 2, 877, 5031.

**14772 Methyl 2,3,6-tri-O-galloyl-β-D-glucopyranoside**

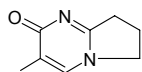
$C_{28}H_{26}O_{18}$ (650.51). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 1327.

**14773 Methyl 3,4,6-tri-O-galloyl-β-D-glucopyranoside**

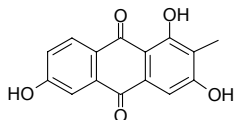
$C_{28}H_{26}O_{18}$ (650.51). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 1327.

**14774 3-Methyl-6,7,8-trihydropyrrolo[1,2-a]pyrimidin-2-one**

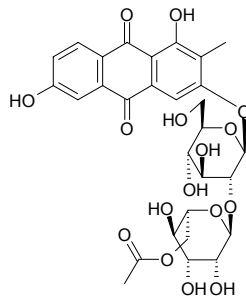
$C_8H_{10}N_2O$ (150.18). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 1331.

**14775 2-Methyl-1,3,6-trihydroxyanthraquinone**

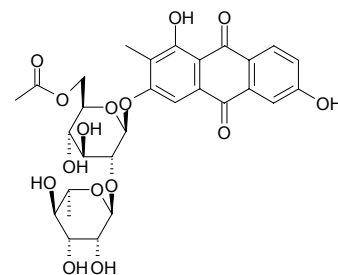
$C_{15}H_{10}O_5$ (270.24). **Pharm:** β-Hexosaminidase release inhibitor (RBL-2H3 cells, $100 \mu\text{mol/L}$, $\text{InRt} = (82.3 \pm 0.7)\%$, $p < 0.01$)^[4347]; cytotoxic (KB, $ED_{50} > 25 \mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.12 \mu\text{g/mL}$; Hep3B, $ED_{50} = 1.7 \mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.14 \mu\text{g/mL}$; Colon205, $ED_{50} = 1.16 \mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.10 \mu\text{g/mL}$; HeLa, $ED_{50} = 12.3 \mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.11 \mu\text{g/mL}$)^[4369]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, $3 \mu\text{mol/L}$, $10 \mu\text{mol/L}$, $30 \mu\text{mol/L}$, $100 \mu\text{mol/L}$, $\text{InRt} = 7.9\%$, 37.5% , 99.5% , 99.6% , respectively; control *L*-NMMA, $3 \mu\text{mol/L}$, $10 \mu\text{mol/L}$, $30 \mu\text{mol/L}$, $100 \mu\text{mol/L}$, $\text{InRt} = 10.3\%$, 15% , 34.1% , 63.1% , respectively)^[4691]. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), QIAN CAO GEN *Rubia cordifolia*, XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.025% dw)^[4691]. **Ref:** 1363, 4347, 4369, 4691.

**14776 2-Methyl-1,3,6-trihydroxyanthraquinone 3-O-(6'-O-acetyl)-α-L-rhamnosyl-(1→2)-β-D-glucoside**

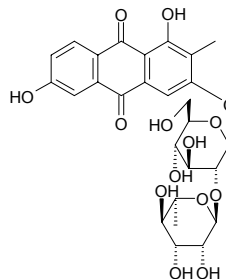
$C_{29}H_{32}O_{16}$ (636.57). **Pharm:** Cytotoxic (KB, $ED_{50} > 25 \mu\text{g/mL}$, control Doxorubicin, $ED_{50} = 0.12 \mu\text{g/mL}$; Hep3B, $ED_{50} > 25 \mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.14 \mu\text{g/mL}$; Colon205, $ED_{50} > 25 \mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.10 \mu\text{g/mL}$; HeLa, $ED_{50} > 25 \mu\text{g/mL}$, Doxorubicin, $ED_{50} = 0.11 \mu\text{g/mL}$). **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem). **Ref:** 4369.

**14777 2-Methyl-1,3,6-trihydroxy-9,10-anthraquinone 3-O-(α-L-rhamnopyranosyl-(1→2)(6'-acetyl)-β-D-glucopyranoside)**

$C_{29}H_{32}O_{15}$ (620.57). **Pharm:** Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $100 \mu\text{mol/L}$, $\text{InRt} = (7.2 \pm 4.1)\%$, control *L*-NMMA, $IC_{50} = 57 \mu\text{mol/L}$)^[4347]; β-Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, $100 \mu\text{mol/L}$, $\text{InRt} = (-9.9 \pm 1.6)\%$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root), QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660, 4347.

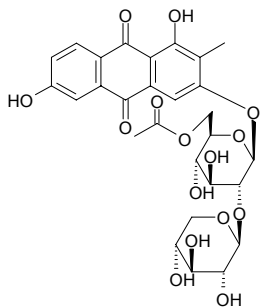
**14778 2-Methyl-1,3,6-trihydroxyanthraquinone 3-O-α-L-rhamnosyl-(1→2)-β-D-glucoside**

$C_{27}H_{30}O_{14}$ (578.53). **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660, 4369.



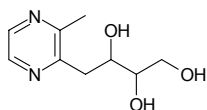
14779 2-Methyl-1,3,6-trihydroxy-9,10-anthraquinone-3-O- β -D-xylosyl-(1 \rightarrow 2)- β -D-(6'-O-acetyl) glucoside

C₂₈H₃₀O₁₅ (606.54). Yellow acicular crystals, mp 284~286°C. Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 242, 660.



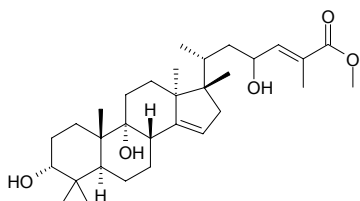
14780 2-Methyl-3-(2',3',4'-trihydroxybutyl)pyrazine

Pedatisectine D C₉H₁₄N₂O₃ (198.22). White granular crystals, mp 110~112°C. Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 477.



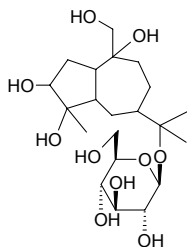
14781 Methyl (24E)-3 α ,9,23-trihydroxy-17,14-friedo-lanostan-14,24-dien-26-oate

C₃₁H₅₀O₅ (502.74). White solid, mp 128~130°C, [α]_D²⁹ = -48° (c = 0.42, MeOH). Source: SHAN FENG GUO *Garcinia hombroniana* (pericarp). Ref: 5085.



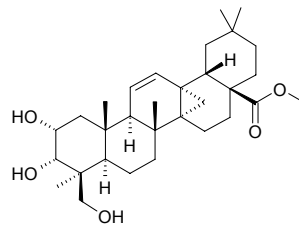
14782 2-(8-Methyl-2,8,9-trihydroxy-2-hydroxymethylbicyclo[5.3.0]decan-7-yl)isopropanol glucoside

C₂₁H₃₈O₁₀ (450.53). Source: CANG ZHU *Atractylodes lancea*. Ref: 660.



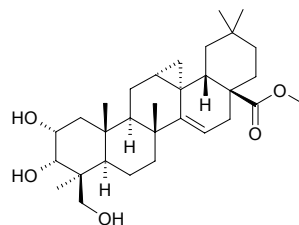
14783 Methyl (13S,14R)2 α ,3 α ,24-trihydroxy-13,14-cyclo-oleana-11-en-28-oate

C₃₁H₄₈O₅ (500.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.



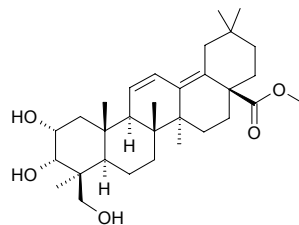
14784 Methyl (12R,13S)2 α ,3 α ,24-trihydroxy-12,13-cyclo-taraxer-14-en-28-oate

C₃₁H₄₈O₅ (500.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.



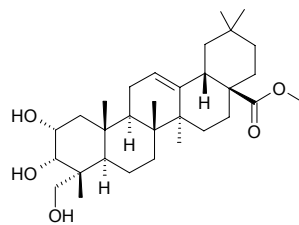
14785 Methyl 2 α ,3 α ,24-trihydroxyoleana-11,13(18)-dien-28-oate

C₃₁H₄₈O₅ (500.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.



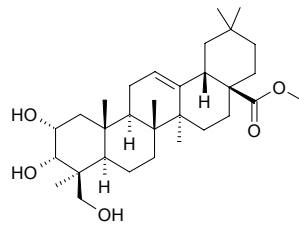
14786 Methyl 2 α ,3 α ,23-trihydroxyolean-12-en-28-oate

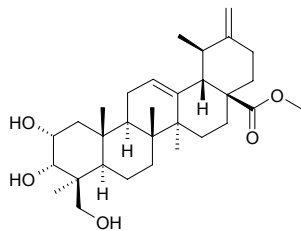
C₃₁H₅₀O₅ (502.74). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.



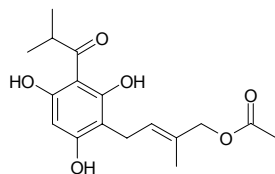
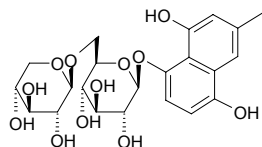
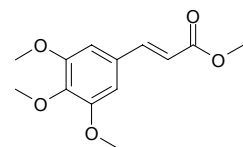
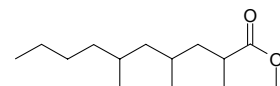
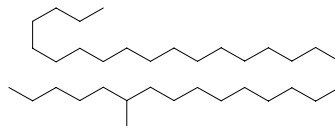
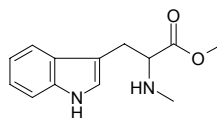
14787 Methyl 2 α ,3 α ,24-trihydroxyolean-12-en-28-oate

C₃₁H₅₀O₅ (502.74). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

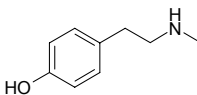
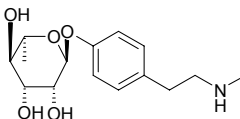


14788 Methyl 2 α ,3 α ,24-trihydroxyursa-12,20(30)-dien-28-oateC₃₁H₄₈O₅ (500.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.**14789 2-Methyl-4-[2',4',6'-trihydroxy-3'-(2-methylpropanoyl)phenyl]but-2-enyl acetate**

C₁₇H₂₂O₆ (322.36). mp 140°C. Pharm: Antibacterial (gram-positive bacteria: *Bacillus cereus*, *Bacillus pumilus*, *Bacillus subtilis*, *Micrococcus kristinae*, *Staphylococcus aureus*, all MIC = 0.5 μg/mL; gram-negative bacteria: *Enterobacter cloacae*, *Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Serratia marcescens*, all inactive); antifungal (*Aspergillus flavus*, MIC = 1.0 μg/mL; *Aspergillus niger*, MIC = 1.0 μg/mL; *Cladosporium cladosporioides*, MIC = 5.0 μg/mL; *Cladosporium cucumerinum*, MIC = 0.5 μg/mL; *Cladosporium sphaerospermum*, MIC = 0.5 μg/mL; *Phytophthora capsici*, MIC = 1.0 μg/mL). Source: NAN FEI CONG SHENG LA JU *Helichrysum caespitium* (shoot). Ref: 3899.

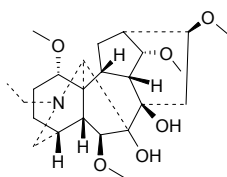
**14790 7-Methyl-1,4,5-trihydroxy-naphthalene-4-O-(6'-O-β-xylopyranosyl)-β-glucopyranoside**C₂₂H₂₈O₁₂ (484.46). Off-white amorphous powder, [α]_D¹⁷ = -128.5° (c = 0.4, DMSO). Source: SHI DI *Diospyros kaki*. Ref: 2321.**14791 Methyl 3,4,5-trimethoxycinnamate**C₁₃H₁₆O₅ (252.27). Source: BI BA GEN *Piper longum*. Ref: 1482.**14792 Methyl-2,4,6-trimethyl-decanoate**C₁₄H₂₈O₂ (228.38). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.**14793 4-Methyl-1,2,3-trithiane**C₄H₈S₃ (152.30). Source: XIE BAI *Allium macrostemon*. Ref: 1391.**14794 6-Methyl tritriacontane**C₃₄H₇₀ (478.94). Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 1457.**14795 (+)-N_b-Methyl tryptophan methyl ester (S)**C₁₃H₁₆N₂O₂ (232.28). Source: HUANG HUA ZI *Sida cordifolia*. Ref: 6.**14796 N-Methyltyramine**

C₉H₁₃NO (151.21). mp 130–131°C, bp 183–185°C/9mmHg. Pharm: Diuretic; increases blood flow through kidney (0.2mg/(kg·min), renal blood flow increases 75% and amount of urine increases 100%); increases blood pressure (anesthetic dog, 0.02–0.5mg/kg iv); increases coronary flow; induces myocardial rhythm; reduces consumption of oxygen in myocardium; LD₅₀ (iv chloride) = 33.9mg/kg. Source: GAN PI *Citrus chachiensis* (dried ripe pericarp: content = 0.096%)^[5508], GOU JU ZHI SHI *Poncirus trifoliata*, HONG MU JI CAO *Desmodium gangeticum*, XIANG YUAN ZHI SHI *Citrus wilsonii*, XIAO GUO YIN MAO QIU *Mammillaria microcarpa*, ZHI KE *Citrus aurantium*, ZHI SHI *Citrus aurantium* (young fruit: content scope = 0.19%–0.83%)^[5501]. Ref: 4, 658, 660, 5501, 5508.

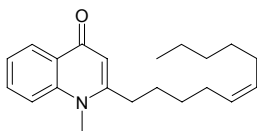
**14797 N-Methyl tyramine-O-α-L-rhamnopyranoside**C₁₅H₂₃NO₅ (297.35). Source: DA YE CAI *Selaginella doederleinii*. Ref: 1411.

14798 6-Methylumbrofine

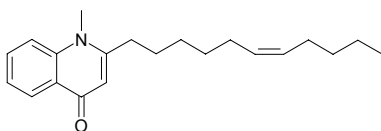
$C_{24}H_{39}NO_6$ (437.58). Colorless powder, mp 145–148°C. Source: ZI HUA GAO WU TOU *Aconitum excelsum*. Ref: 689.

**14799 1-Methyl-2-[(Z)-5-undecenyl]-4(1H)-quinolone**

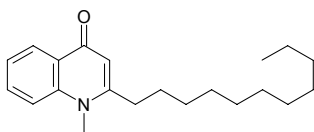
$C_{21}H_{29}NO$ (311.47). Colorless oil. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 9, 877.

**14800 1-Methyl-2-[(Z)-6-undecenyl]-4(1H)-quinolone**

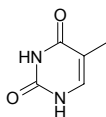
$C_{21}H_{29}NO$ (311.47). Pharm: Leukotriene biosynthesis inhibitor (hmn polymorphonuclear granulocytes, $IC_{50} = 10.0\mu\text{mol/L}$, zileuton, $IC_{50} = 10.4\mu\text{mol/L}$)^[5031]. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2, 877, 5031.

**14801 1-Methyl-2-undecyl-4(1H)-quinolone**

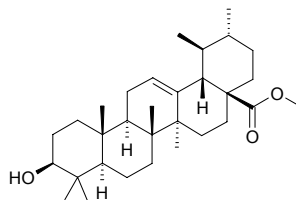
$C_{21}H_{31}NO$ (313.49). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2.

**14802 5-Methyluracil**

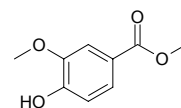
Thymine [65-71-4] $C_5H_6N_2O_2$ (126.12). mp 326°C. Pharm: Nitrogen-containing base occurring in DNA and RNA; tyrosinase inhibitor (333.3 $\mu\text{mol/L}$, InRt = 7.8%; control Kojic acid, 333.3 $\mu\text{mol/L}$, InRt = 59.8%)^[4233]. Source: MU ZEI *Equisetum hiemale*, ZANG HONG HUA *Crocus sativus* (pollen), ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 2, 658, 660, 4233.

**14803 Methyl ursolate**

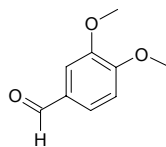
[32208-45-0] $C_{31}H_{50}O_3$ (470.74). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**14804 Methyl vanillate**

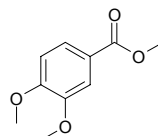
$C_9H_{10}O_4$ (182.18). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00049%)^[4706], TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 2529, 4488, 4706.

**14805 Methylvanillin**

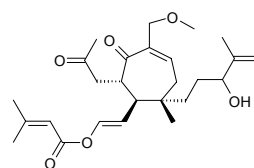
[120-14-9] $C_9H_{10}O_3$ (166.18). mp 44°C, 58°C. Source: PENG ZI CAI *Galium verum*, SHOU ZHANG SHEN *Gymnadenia conopsea*. Ref: 6.

**14806 Methyl veratrate**

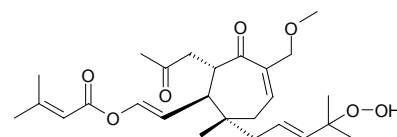
$C_{10}H_{12}O_4$ (196.20). Source: JIN FA XIAN *Polytrichum commune*. Ref: 1504.

**14807 18-O-Methylvibsanin G**

$C_{26}H_{38}O_6$ (446.59). Colorless amorphous solid, $[\alpha]_D^{26} = +38.1^\circ$ ($c = 0.4$, $CHCl_3$). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00002%dw). Ref: 3004.

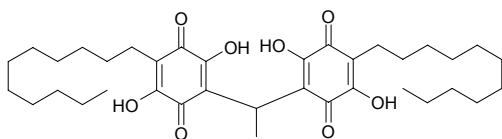
**14808 18-O-Methylvibsanin K**

$C_{26}H_{38}O_7$ (462.59). Source: RI BEN JIA MI *Viburnum awabuki* (leaf). Ref: 4168.

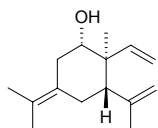


14809 Methylvilangin

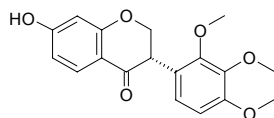
$C_{36}H_{54}O_8$ (614.83). Orange crystals (methanol), mp 129–130°C, $[\alpha]_D^{25} = +180^\circ$ ($c = 1.0$, CH_2Cl_2). Source: TIE ZI *Myrsine africana* (fruit). Ref: 3464.

**14810 2-Methyl-2-vinyl-3-isopropenyl-5-isopropylidene cyclohexanol**

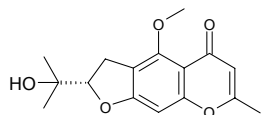
$C_{15}H_{24}O$ (220.36). bp 46–47°C. Source: XI XIN *Asarum sieboldii*. Ref: 6.

**14811 3'-O-Methylviolanone**

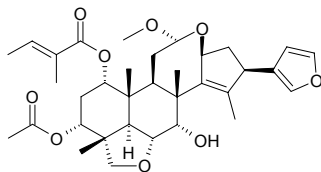
[56973-42-3] $C_{18}H_{18}O_6$ (330.34). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**14812 5-O-Methylvisaminol**

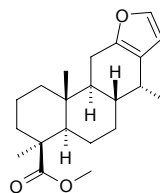
$C_{16}H_{18}O_5$ (290.32). Pharm: Antihypertensive (animal model). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2, 658.

**14813 12-O-Methylvolkensin**

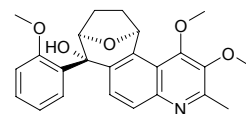
[244179-69-9] $C_{34}H_{46}O_9$ (598.74). Colorless needles, mp = 236.5–238.0°C, $[\alpha]_D^{18} = -52.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (inhibits KB cell's growth, $IC_{50} = 8.72\mu g/mL$, control Adriamycin, $IC_{50} = 0.066\mu g/mL$). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2314.

**14814 (+)-Methyl vouacapenate**

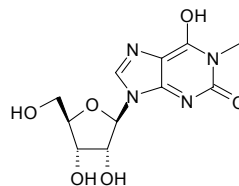
$C_{21}H_{30}O_3$ (330.47). Source: MEI GUO KE YA SHU *Vouacoupa Americana* (wood). Ref: 4315.

**14815 O-Methyl-waltherione A**

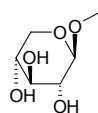
$C_{24}H_{25}NO_5$ (407.47). White solid, mp 188.0–189.0°C, $[\alpha]_D^{25} = -21.5^\circ$ ($c = 0.016$, $CHCl_3$). Pharm: Antibacterial (TLC bioassay, *Staphylococcus aureus*, detection limit = 25.0 μg ; *Streptococcus epidermidis*, detection limit = 3.5 μg ; *Micrococcus luteus*, detection limit = 6.5 μg ; *Klebsiella pneumoniae*, detection limit = 12.5 μg ; *Salmonella setubal*, detection limit = 12.5 μg and *Escherichia coli*, detection limit = 6.5 μg). Source: *Waltheria douradinha* (root cortex). Ref: 5284.

**14816 1-Methylxanthosine**

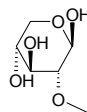
$C_{11}H_{14}N_4O_6$ (298.26). White solid. Source: LV HAI KUI *Anthopleura stell.* Ref: 2111.

**14817 1-O-Methyl-D-xyloside**

$C_6H_{12}O_5$ (164.16). mp (α) 90–92°C, (β) 157°C. Source: LU JIAO CAI *Gloiopeltis furcata*. Ref: 6.

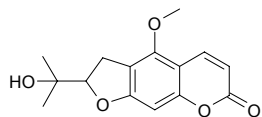
**14818 2-O-Methyl-D-xyloside**

$C_6H_{12}O_5$ (164.16). mp β -D (+) 137–138°C. Source: HAI DAI *Zostera marina*. Ref: 6.

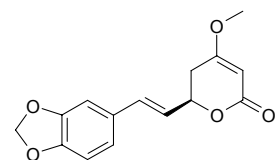


14819 5-Methoxymarmesin

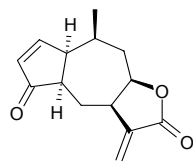
$C_{15}H_{16}O_5$ (276.29). Oil. Source: RU DI JIN NIU *Zanthoxylum nitidum* (root). Ref: 4555.

**14820 Methysticin**

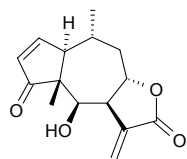
[495-85-2] $C_{15}H_{14}O_5$ (274.28). Pharm: Antispasmodic. Source: KA WA HU JIAO *Piper methysticum*. Ref: 658.

**14821 Mexicanin E**

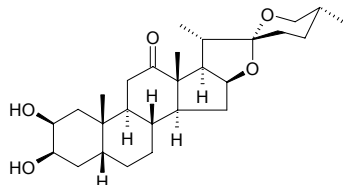
[5945-40-4] $C_{14}H_{16}O_3$ (232.28). Pharm: Antineoplastic; cytotoxic; supertoxic agent (mammal). Source: MO XI GE DUI XIN JU *Helenium mexicanum*. Ref: 658, 1521.

**14822 Mexicanin I**

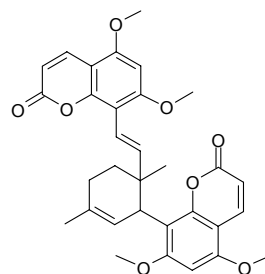
[5945-41-5] $C_{15}H_{18}O_4$ (262.31). Pharm: Antineoplastic; cytotoxic. Source: DUI XIN JU *Helenium autumnale*. Ref: 658.

**14823 Mexogenin**

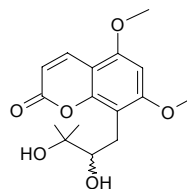
$C_{27}H_{42}O_5$ (446.63). mp 246°C. Source: JI JIAN LONG SHE LAN *Agave rigidissima*. Ref: 2503.

**14824 Mexolide**

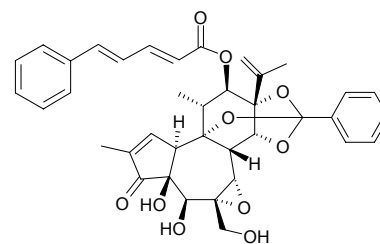
Toddasin [75775-35-8] $C_{32}H_{32}O_8$ (544.61). Crystals (CH_2Cl_2 - Et_2O), mp 241°C. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*, ZHONG HUA JIU LI XIANG *Murraya exotica*. Ref: 1335, 1521.

**14825 Mexoticin**

5,7-Dimethoxy-8-(2,3-dihydroxyisopentyl) coumarin; *L*-Isomexoticin [18196-00-4] $C_{16}H_{20}O_6$ (308.33). mp 185°C; $[\alpha]_D^{24} = -123.7^\circ$ ($c = 0.3$, MeOH). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100 μ g/mL: thrombin = 0.1U/mL, AggRt = (84.0 \pm 0.8)%, $p < 0.05$, control, AggRt = (80.0 \pm 1.1)%; AA = 100 μ mol/L, AggRt = (71.3 \pm 6.1)%, control, AggRt = (77.0 \pm 1.5)%; collagen = 10 μ g/mL, AggRt = (69.7 \pm 4.0)%, $p < 0.05$, control, AggRt = (78.3 \pm 1.3)%; PAF = 1ng/mL, AggRt = (82.0 \pm 2.9)%, control, AggRt = (82.5 \pm 1.5)%)^[5417]. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], QI GUO QIAN LI XIANG *Murraya paniculata* var. *omphalocarpa* (leaf), YUN QIAN HU *Peucedanum rubricaula*, ZHONG HUA JIU LI XIANG *Murraya exotica*. Ref: 6, 11, 177, 5417.

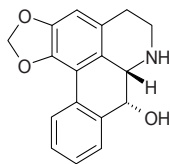
**14826 Mezerein**

[34807-41-5] $C_{38}H_{38}O_{10}$ (654.72). Crystals, mp 265–269°C (dec), $[\alpha]_D^{25} = +117.5^\circ$ (chloroform); colorless columnar crystals (dichloromethane-ether), mp 258–262°C, $[\alpha]_D^{27} = +125^\circ$ (chloroform). Pharm: Antineoplastic (mus P₃₈₈ and L₁₂₁₀, 50 μ g/kg); hemostatic (rbt, 0.01 μ mol/L, promotes platelet aggregation). Source: OU YA RUI XIANG *Daphne mezereum*. Ref: 661.

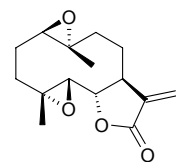


14827 Michelalbine

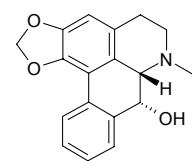
(-)-Norushinsunine [3175-84-6] $C_{17}H_{15}NO_3$ (281.31). mp 205~207°C. Source: BAI LAN HUA *Michelia alba*, HOU PO *Magnolia officinalis*, QING FENG TENG *Sinomenium acutum*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root). Ref: 6, 625, 1521, 3083.

**14828 Michelenolide**

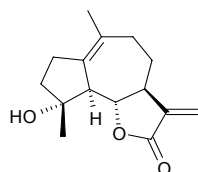
[66392-96-9] $C_{15}H_{20}O_4$ (264.32). Pharm: Antineoplastic; cytotoxic (*in vitro*, SMMC-7721, $IC_{50} = 2.32\mu g/mL$; HO-8910, $IC_{50} = 1.37\mu g/mL$; control Vincristine, SMMC-7721, $IC_{50} = 30.35\mu g/mL$; HO-8910, $IC_{50} = 20.74\mu g/mL$)^[4736]. Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.001%dw)^[4736], WU XIN SHI *Michelia compressa* var. *formosana*. Ref: 658, 4736.

**14829 Micheline A**

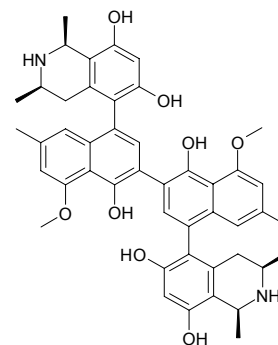
Ushinsunine [3175-89-1] $C_{18}H_{17}NO_3$ (295.34). mp (-) 180~181°C. Pharm: Antibacterial (*Staphylococcus* sp., *Salmonella* sp., *Bacillus mycoides* and *Bacillus subtilis*). Source: HUANG MIAN GUI *Michelia champaca*, WU XIN SHI *Michelia compressa* var. *formosana*, BAI LAN HUA *Michelia alba*. Ref: 6, 658.

**14830 Micheliolide**

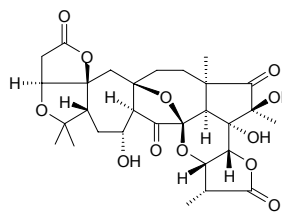
[68370-47-8] $C_{15}H_{20}O_3$ (248.32). Pharm: Antineoplastic; cytotoxic. Source: WU XIN SHI *Michelia compressa* var. *formosana*. Ref: 658.

**14831 Michellamine B**

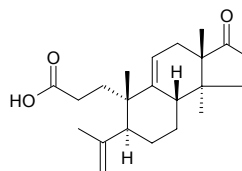
$C_{46}H_{48}N_2O_8$ (756.90). Pharm: Anti-HIV (inhibits HIV in early stage of its life cycle, inhibits the cell fusion and formation of plasmodia). Source: GOU ZHI TENG *Ancistrocladus korupensis*. Ref: 2268.

**14832 Micrandilactone A**

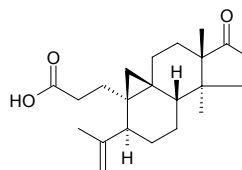
$C_{29}H_{36}O_{12}$ (576.60). Source: XIAO HUA WU WEI ZI *Schisandra micrantha*. Ref: 3006.

**14833 Micranoic acid A**

$C_{22}H_{32}O_3$ (344.50). Colorless needles (acetone), mp 87~88°C, $[\alpha]_D^{23} = +69.11^\circ$ ($c = 0.25$, MeOH). Source: XIAO HUA WU WEI ZI *Schisandra micrantha* (leaf and stem). Ref: 4389.

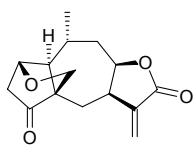
**14834 Micranoic acid B**

$C_{22}H_{32}O_3$ (344.50). Colorless prisms (acetone), mp 80~81°C, $[\alpha]_D^{24} = +121.74^\circ$ ($c = 0.23$, MeOH). Source: XIAO HUA WU WEI ZI *Schisandra micrantha* (leaf and stem). Ref: 4389.

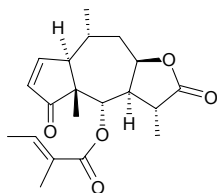


14835 Microhelenin A

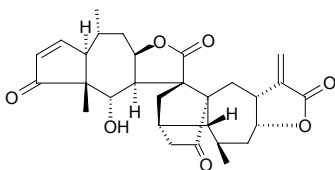
[61490-63-9] C₁₅H₁₈O₄ (262.31). mp 140~141°C. Pharm: Antineoplastic; cytotoxic. Source: XIAO TOU DUI XIN JU *Helenium microcephalum*. Ref: 5.

**14836 Microhelenin C**

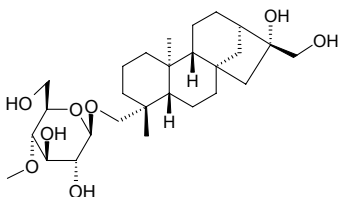
[63569-07-3] C₂₀H₂₆O₅ (346.43). Pharm: Antineoplastic; cytotoxic. Source: XIAO TOU DUI XIN JU *Helenium microcephalum*. Ref: 658.

**14837 Microlenin**

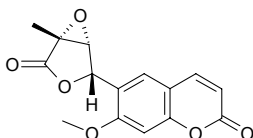
[60622-41-5] C₂₉H₃₄O₇ (494.59). mp 280°C (dec). Pharm: Antineoplastic (rat W₂₅₆, 2.5mg/(kg·d) *in vivo*, biotic prolonged rate = 73%). Source: XIAO TOU DUI XIN JU *Helenium microcephalum*. Ref: 5, 658.

**14838 Microlepin**

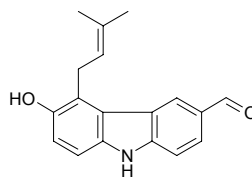
[61667-46-7] C₂₇H₄₆O₈ (498.66). Source: BIAN YUAN LIN GAI JUE *Microlepis marginata*. Ref: 1412.

**14839 Micromelin**

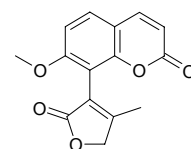
[15085-71-9] C₁₅H₁₂O₆ (288.26). Pharm: Antineoplastic. Source: XIAO YUN MU *Micromelum integerrimum*. Ref: 658.

**14840 Micromeline**

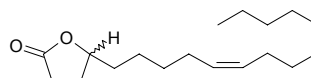
C₁₈H₁₇NO₂ (279.34). Yellow microcrystalline powder. Pharm: Antitubercular (MIC = (1.5±0.4)μg/mL, control Rifampin, MIC = (0.040±0.017)μg/mL); cytotoxic (Vero, IC₅₀ = 95μg/mL, Rifampin, IC₅₀ = 100μg/mL). Source: YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 5072.

**14841 Microminutin**

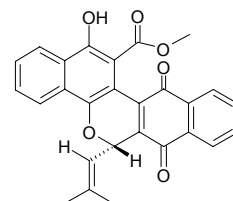
[84041-46-3] C₁₅H₁₂O₅ (272.26). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 1336.

**14842 Micromolide**

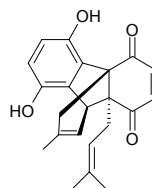
(-)-Z-9-Octadecene-4-olide C₁₈H₃₂O₂ (280.45). Colorless oil. Pharm: Antitubercular (MIC = (15.6±0.2)μg/mL, control Rifampin, MIC = (0.040±0.017)μg/mL); cytotoxic Vero, IC₅₀ > 102μg/mL, Rifampin, IC₅₀ = 100μg/mL. Source: YING MAO XIAO YUN MU *Micromelum hirsutum* (stem cortex). Ref: 5072.

**14843 Microphyllaquinone**

C₂₇H₂₀O₆ (440.46). Source: QIU ZHUANG PO BU MU *Cordia globosa* (root). Ref: 5043.

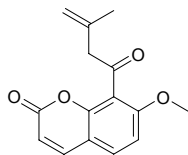
**14844 Microphyllone**

C₂₂H₂₂O₄ (350.42). Bright yellow needles, mp 167~168°C. Source: *Diospyros sylvatica* (root). Ref: 3811.

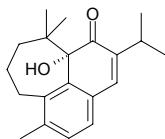


14845 Micropubescin

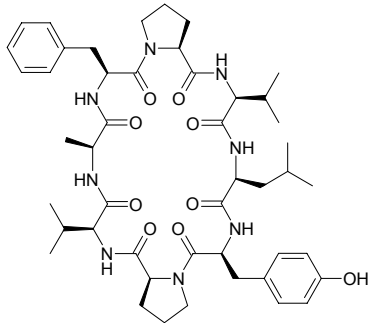
$C_{15}H_{14}O_4$ (258.28). mp 118–119°C. Source: YAN JIAO CAO *Boeninghausenia albiflora*. Ref: 2495.

**14846 Microstegiol**

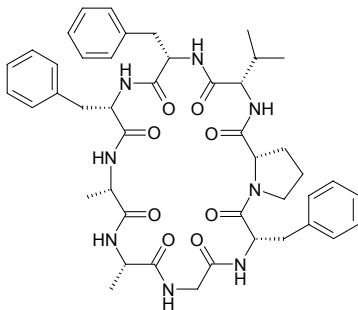
$C_{20}H_{26}O_2$ (298.43). mp 70°C, $[\alpha]_D^{25} = +415^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Cytotoxic (Col2, $IC_{50} = 17.4\mu g/mL$, control Ellipticine, $IC_{50} = 0.3\mu g/mL$; LNCaP, $IC_{50} > 20\mu g/mL$; P₃₈₈, $IC_{50} = 3.0\mu g/mL$, Ellipticine, $IC_{50} = 0.1\mu g/mL$; KB, $IC_{50} > 20\mu g/mL$; LU1, $IC_{50} > 20\mu g/mL$). Source: XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5400.

**14847 Microtoenin A**

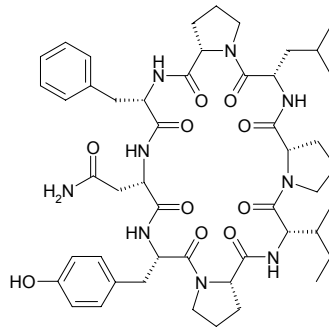
$C_{47}H_{66}N_8O_9$ (887.1). White amorphous powder, mp 280–282°C, $[\alpha]_D^{20} = -104.8^\circ$ ($c = 0.23$, MeOH). Pharm: Cytotoxic inactive (Bre04, Lu04, N04, $GI_{50} > 100\mu g/mL$); antiviral inactive (Vero cell lines infected with HSV-2 strain 333, $250\mu g/mL$). Source: NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00026%dw). Ref: 4752.

**14848 Microtoenin B**

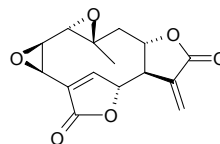
$C_{45}H_{56}N_8O_8$ (837.00). White amorphous powder, mp 288–290°C, $[\alpha]_D^{20} = -68.3^\circ$ ($c = 0.12$, MeOH). Pharm: Cytotoxic inactive (Bre04, Lu04, N04, $GI_{50} > 100\mu g/mL$); antiviral inactive (Vero cell lines infected with HSV-2 strain 333, $250\mu g/mL$). Source: NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00014%dw). Ref: 4752.

**14849 Microtoenin C**

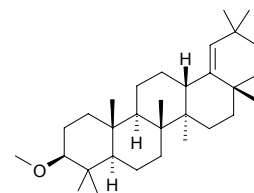
$C_{49}H_{67}N_9O_{10}$ (942.13). White amorphous powder, mp 256–258°C, $[\alpha]_D^{20} = -93.8^\circ$ ($c = 0.13$, MeOH). Pharm: Cytotoxic inactive (Bre04, Lu04, N04, $GI_{50} > 100\mu g/mL$); antiviral inactive (Vero cell lines infected with HSV-2 strain 333, $250\mu g/mL$). Source: NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00026%dw). Ref: 4752.

**14850 Mikanolide**

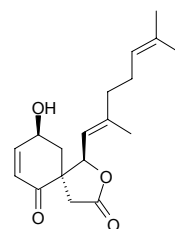
[17928-61-9] $C_{15}H_{14}O_6$ (290.28). Pharm: Antibacterial; antifungal. Source: WEI GAN JU *Mikania scandens*, JIA ZE LAN *Mikania cordata*. Ref: 658.

**14851 Miliacin**

[5945-45-9] $C_{31}H_{52}O$ (440.76). mp 282–283°C. Source: SHU MI *Panicum miliaceum*. Ref: 6.

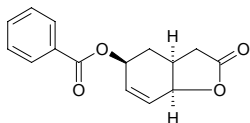
**14852 Miliusol**

(1'E)-(1R*,5R*,9S*)-9-Hydroxy-1-(2,6-dimethylhepta-1,5-dienyl)-3,6-dioxo-2-oxa-spiro[4.5]dec-7-ene $C_{18}H_{24}O_4$ (304.39). Colorless oil, $[\alpha]_D^{23} = +38^\circ$ ($c = 0.5$, $CHCl_3$). Source: *Milisia balansae* (branch and leaf: yield = 0.0013%dw). Ref: 3016.

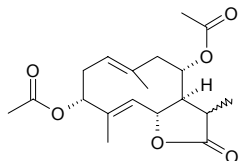


14853 Miliusolide

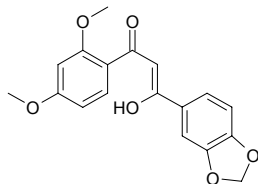
$C_{15}H_{14}O_4$ (258.28). Colorless crystals, mp 120–121°C (EtOAc). Source: *Milusa balansae* (branch and leaf: yield = 0.00065%dw). Ref: 3016.

**14854 Millefin**

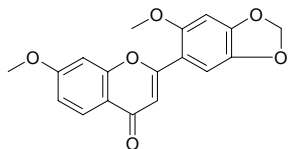
[39262-27-6] $C_{19}H_{26}O_6$ (350.42). mp 209–210°C. Source: YANG SHI CAO *Achillea millefolium*. Ref: 6.

**14855 Milletenone**

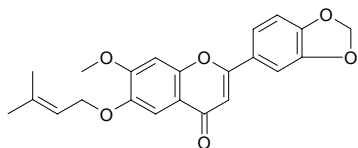
$C_{18}H_{16}O_6$ (328.32). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00020%dw). Ref: 4624.

**14856 Millettocalyxin A**

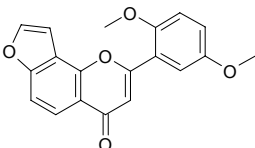
$C_{18}H_{14}O_6$ (326.31). Yellow powder. Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.0004%dw). Ref: 4624.

**14857 Millettocalyxin B**

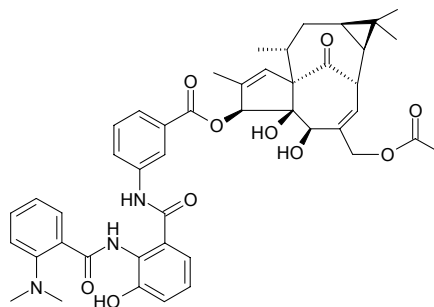
$C_{22}H_{20}O_6$ (380.4). Yellow powder. Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00095%dw). Ref: 4624.

**14858 Millettocalyxin C**

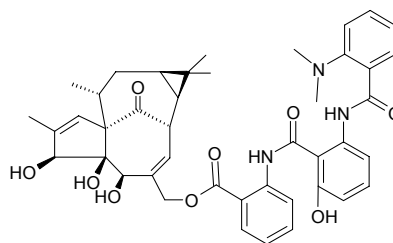
$C_{19}H_{14}O_5$ (322.32). Yellow powder. Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.0017%dw). Ref: 4624.

**14859 Milliamine A**

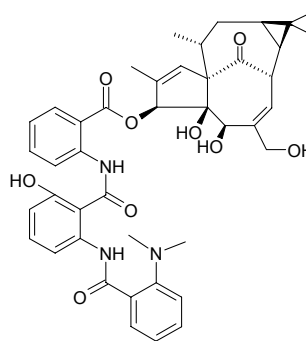
[34391-10-1] $C_{45}H_{49}N_3O_{10}$ (791.91). Source: TIE HAI TANG *Euphorbia milii* (the compound was isolated from the plant by D.Uemura et al. in 1973)^[5505]. Ref: 6, 5505.

**14860 Milliamine B**

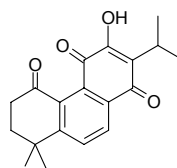
$C_{43}H_{47}N_3O_9$ (749.87). Source: TIE HAI TANG *Euphorbia milii*. Ref: 6.

**14861 Milliamine C**

[49620-09-9] $C_{43}H_{47}N_3O_9$ (749.87). Source: TIE HAI TANG *Euphorbia milii*. Ref: 6.

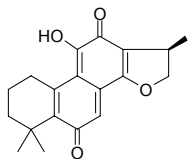
**14862 Millionone I**

[125675-06-1] $C_{19}H_{20}O_4$ (312.37). Yellow powder, mp 151–153°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 1368, 1521.

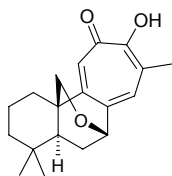


14863 Miltionone II

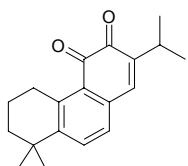
[125675-07-2] C₁₉H₂₀O₄ (312.37). Needles, mp 184–185°C, [α]_D²³ = +114.8° (c = 0.12, CHCl₃). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 1368, 1521.

**14864 Miltipolone**

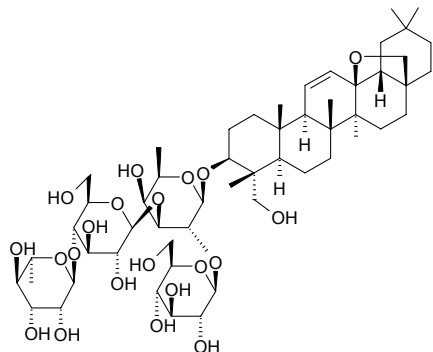
[131086-61-8] C₁₉H₂₄O₃ (300.40). Crystals, mp 132°C, [α]_D²⁵ = -77.8° (c = 0.2, CHCl₃). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 1369, 1521.

**14865 Miltirone**

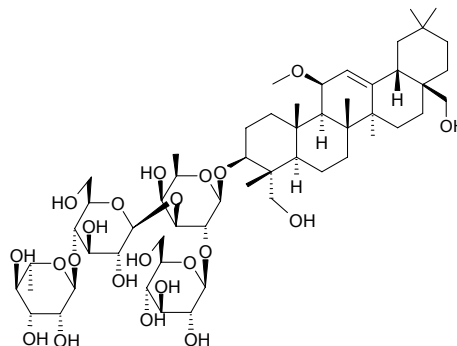
[27210-57-7] C₁₉H₂₂O₂ (282.39). mp 100°C. Pharm: Platelet aggregation inhibitor (induced by collagen IC₅₀ = 5.76 μmol/L); CNS depressant; benzodiazepine receptor agonist. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2, 1708, 1709.

**14866 Mimengoside A**

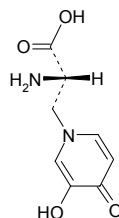
C₅₄H₈₈O₂₁ (1073.29). Source: MI MENG HUA *Buddleja officinalis*. Ref: 1356.

**14867 Mimengoside B**

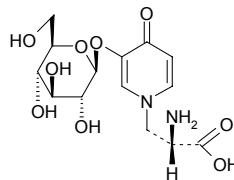
C₅₅H₉₂O₂₂ (1105.33). Source: MI MENG HUA *Buddleja officinalis*. Ref: 1356.

**14868 Mimosine**

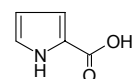
Leucaenol [500-44-7] C₈H₁₀N₂O₄ (198.18). Crystals (H₂O), mp 235–236°C, mp 226–227°C, [α]_D²² = -20° (H₂O). Pharm: Depilatory (horse, sheep and pig); leads to struma (heifer); teratogen (rat); Tyrosinase Inhibitor (IC₅₀ = 3.68±0.02) μmol/L). Source: HAN XIU CAO *Mimosa pudica*, YIN HE HUAN *Leucaena glauca* [Syn. *Leucaena leucocephala*]. Ref: 6, 658, 1521, 2544.

**14869 Mimosine-O-β-D-glucoside**

Mimoside [36518-12-4] C₁₄H₂₀N₂O₉ (360.32). mp 178–179°C, [α]_D²⁶ = -60.9° (c = 0.46, H₂O). Source: HAN XIU CAO *Mimosa pudica*, YIN HE HUAN *Leucaena glauca* [Syn. *Leucaena leucocephala*]. Ref: 6, 1521.

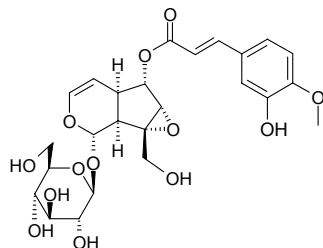
**14870 2-Minaline**

[634-97-9] C₅H₅NO₂ (111.10). Source: YI YE JIA FAN LV *Pseudostellaria heterophylla*. Ref: 1443.

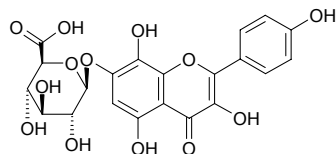


14871 Minecoside

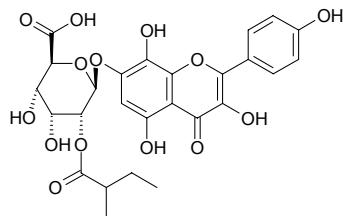
$C_{25}H_{30}O_{13}$ (538.51). Source: HU HUANG LIAN *Picrorhiza kurrooa*, ZHAN LONG JIAN *Veronicastrum sibiricum*, CAI DOU SHU *Radermachera sinica*. Ref: 1463, 1464, 1465.

**14872 Mingjinianurone A**

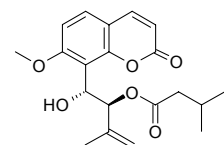
3,5,7,8,4'-Pentahydroxyflavone-7-O- β -D-glucuronopyranoside $C_{21}H_{18}O_{13}$ (478.37). Yellow powder, mp 230°C, soluble in methanol, ethanol acetone and dimethyl sulfoxide. Source: ZI HUA JING TIAN *Hylotelephium mingjinianum*. Ref: 308.

**14873 Mingjinianurone B**

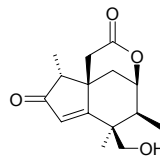
3,5,7,8,4'-Pentahydroxyflavone-8-O- β -D-2''-O-(2-methylbutanoyl) glucuronide $C_{26}H_{26}O_{14}$ (562.49). Yellow powder, mp 206~207°C, soluble in methanol, ethanol acetone and dimethyl sulfoxide; insoluble in chloroform and water. Source: ZI HUA JING TIAN *Hylotelephium mingjinianum*. Ref: 308.

**14874 Minumicrolin**

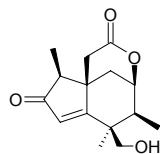
Minumicrolin $C_{20}H_{24}O_6$ (360.41). Oil, $[\alpha]_D = 40.9^\circ$ ($c = 0.086$, $CHCl_3$). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 1272, 1521.

**14875 (1R*)-Minwanenone**

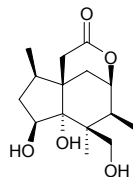
$C_{15}H_{20}O_5$ (264.32). $[\alpha]_D^{21} = -17.9^\circ$ ($c = 1.50$, EtOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00025%dw). Ref: 4697.

**14876 (1S*)-Minwanenone**

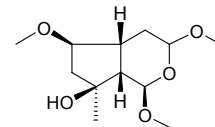
$C_{15}H_{20}O_5$ (264.32). $[\alpha]_D^{19} = -19.9^\circ$ ($c = 1.25$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00021%dw). Ref: 4697.

**14877 Minwanensin**

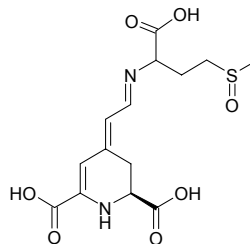
$C_{15}H_{24}O_5$ (284.36). Colorless acicular crystals, mp 171~173°C, $[\alpha]_D^{14} = -87.4^\circ$ ($c = 0.1075$, methanol). Source: MIN WAN BA JIAO *Illicium minwanense*, MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00088%dw)⁴⁶⁹⁷. Ref: 315, 4697.

**14878 Mioporosidegenin**

$C_{12}H_{22}O_5$ (246.31). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*]. Ref: 1375.

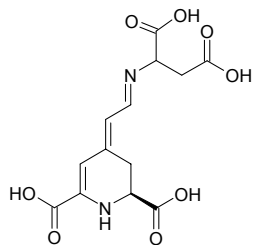
**14879 Miraxanthin I**

[5296-79-7] $C_{14}H_{18}N_2O_7S$ (358.37). Pharm: Yellow pigment. Source: ZI MO LI GEN *Mirabilis jalapa*, ZI JIN NIU GEN *Ardisia japonica*. Ref: 6, 658.

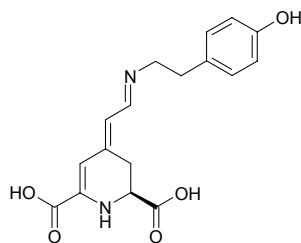


14880 Miraxanthin II

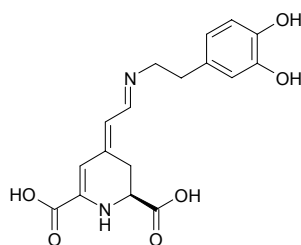
[53750-63-3] C₁₃H₁₄N₂O₈ (326.27). Pharm: Yellow pigment. Source: ZI MO LI GEN *Mirabilis jalapa*, ZI JIN NIU GEN *Ardisia japonica*. Ref: 6, 658.

**14881 Miraxanthin III**

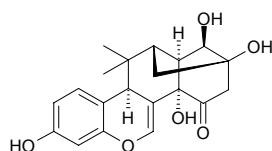
[5589-85-5] C₁₇H₁₈N₂O₅ (330.34). Pharm: Yellow pigment. Source: ZI MO LI GEN *Mirabilis jalapa*, ZI JIN NIU GEN *Ardisia japonica*. Ref: 6, 658.

**14882 Miraxanthin V**

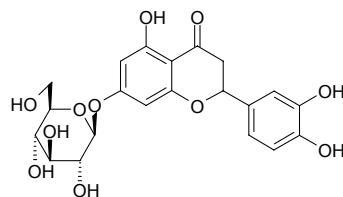
[5375-64-4] C₁₇H₁₈N₂O₆ (346.34). Pharm: Yellow pigment. Source: ZI MO LI GEN *Mirabilis jalapa*, ZI JIN NIU GEN *Ardisia japonica*. Ref: 6, 658.

**14883 Miroestrol**

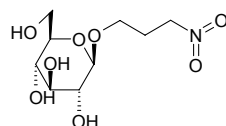
C₂₀H₂₂O₆ (358.39). mp 268–270°C (dec). Pharm: Estrogenic activity. Source: GUO YE GE *Pueraria mirifica*. Ref: 4, 658.

**14884 Miscanthoside**

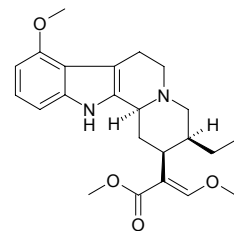
C₂₁H₂₂O₁₁ (450.40). mp 158–163°C. Source: MANG JING *Miscanthus sinensis*. Ref: 6.

**14885 Miserotoxin**

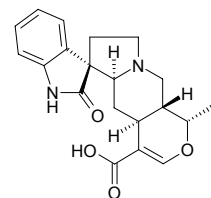
[24502-76-9] C₉H₁₇NO₈ (267.24). Pharm: Toxin (causes methaemoglobin disease in cattles). Source: CHI GUO HUANG QI *Astragalus pterocarpus*, JU YUAN YE HUANG QI *Astragalus miser* var. *oblongifolia*, ROU MAO HUANG QI *Astragalus atropubescens*, SI CHI HUANG QI *Astragalus tetraplerus*. Ref: 658.

**14886 Mitragynine**

C₂₃H₃₀N₂O₄ (398.51). Pharm: Opioid agonist (gpg ileum, pEC₅₀ = 6.91±0.04, control Morphine, pEC₅₀ = 7.15±0.05). Source: MEI LI MAO ZHU MU *Mitragyna speciosa* (leaf). Ref: 5069.

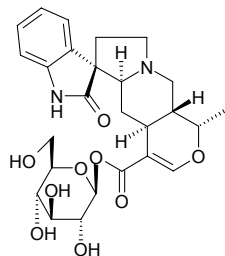
**14887 Mitraphyllic acid**

[10126-00-8] C₂₀H₂₂N₂O₄ (354.41). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 287, 910, 5341.

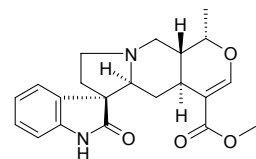


14888 Mitraphyllic acid (16→1)-β-D-gluco-pyranosyl ester

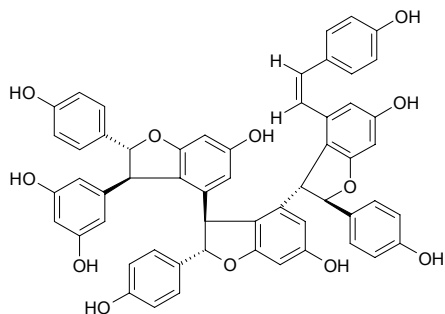
$C_{26}H_{32}N_2O_9$ (516.55). White amorphous powder crystals, $[\alpha]_D = -48.8^\circ$ (MeOH). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 287.

**14889 Mitraphylline**

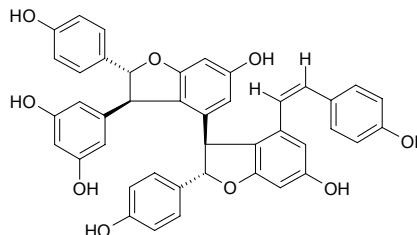
[509-80-8] $C_{21}H_{24}N_2O_4$ (368.44). Pharm: Antihypertensive^[658], immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines)^[5341]. Source: BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG HUA GOU TENG *Uncaria longiflora*, CHUAN SHANG LONG MI GOU TENG *Uncaria kawakamii*, DA YE MAO ZHU MU *Mitragyna macrophylla*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, ER CHA GOU TENG *Uncaria gambir*, FEI ZHOU GOU TENG *Uncaria africana*, GUI YA NA GOU TENG *Uncaria guianensis*, HOU YE GOU TENG *Uncaria callophylla*, MAO GOU TENG *Uncaria hirsuta*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], PI ZHEN YE GOU TENG *Uncaria lancifolia*, PING HUA FA LIANG GOU TENG *Uncaria laevigata*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*, *Uncaria bernaysii*, *Uncaria perrottetii*, *Uncaria sterrophylla*, occurs in many plants. Ref: 2, 658, 5341.

**14890 cis-Miyabenol A**

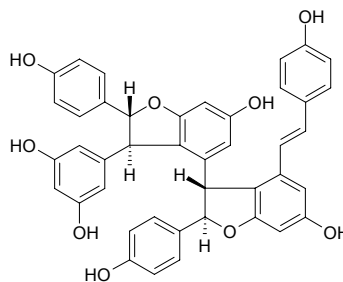
$C_{56}H_{42}O_{12}$ (906.95). White amorphous. Pharm: Ecdysteroid antagonist (*Drosophila melanogaster* B₁₁ cell line, $IC_{50} = 31\mu\text{mol/L}$). Source: XIA CHUI TAI CAO *Carex pendula* (seed). Ref: 5141.

**14891 cis-Miyabenol C**

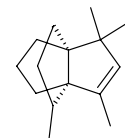
$C_{42}H_{32}O_9$ (680.72). White amorphous. Pharm: Ecdysteroid antagonist (*Drosophila melanogaster* B₁₁ cell line, $IC_{50} = 19\mu\text{mol/L}$). Source: XIA CHUI TAI CAO *Carex pendula* (seed). Ref: 5141.

**14892 Miyabenol C**

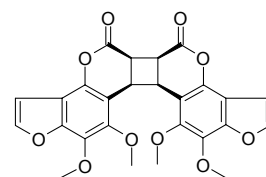
[109605-83-6] $C_{42}H_{32}O_9$ (680.72). Pharm: PKC inhibitor ($IC_{50} = 52.5\mu\text{mol/L}$). Source: BAI CI HUA *Sophora viciifolia*, SHE PU TAO *Ampelopsis brevipedunculata*, XIA YE JIN JI ER *Caragana stenophylla* (root), *Carex fedia* var. *miyabei*. Ref: 2233, 2234, 2557, 2558.

**14893 Modhephene**

$C_{15}H_{24}$ (204.36). Pharm: Anti-Inflammatory (anti-oedema, control oedema = $(7.8 \pm 0.3)\text{mg}$, $100\mu\text{g}/\text{cm}^2$ mixture with silphinene and isocomene, oedema = $(4.9 \pm 0.4)\text{mg}$, $p < 0.05$, reduction = 37%, Indomethacin oedema = $(3.4 \pm 0.3)\text{mg}$, $p < 0.05$, reduction = 56%). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985.

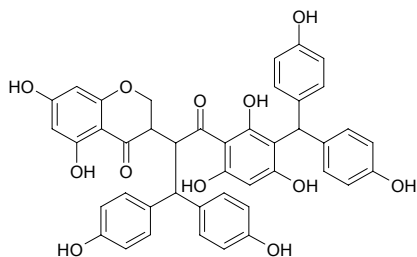
**14894 Moellendorffine**

$C_{26}H_{20}O_{10}$ (492.44). Yellowish columnar crystals, mp 244–246°C. Source: LI JIANG QIAN HU *Peucedanum govianum* var. *bicolor*, ZOU MA QIN *Heracleum moellendorffii* var. *paucivittatum*. Ref: 61, 557.

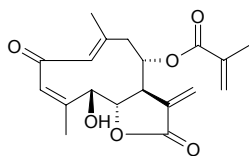


14895 Mohsenone

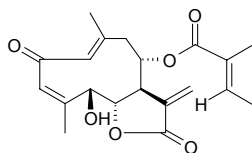
3-[1-[[3-Di(4-hydroxyphenyl)methyl]2,4,6-trihydroxyphenyl]3-di(4-hydroxyphenyl)1-propanone-2-yl]5,7-dihydroxy-4*H*-1-benzopyran-4-one C₄₃H₃₃O₁₂ (742.74). Brown amorphous powder. Source: LANG DU *Stellera chamaejasme*. Ref: 1911.

**14896 Molephantin**

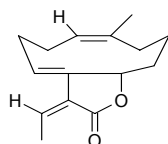
[50656-66-1] C₁₉H₂₂O₆ (346.38). mp 214~216°C. Pharm: Analgesic (mus, ip, 20mg/kg, inhibits writhing motion due to acetic acid); antineoplastic (W₂₅₆ and EAC); anti-inflammatory (rat, swollen foot model caused by carrageenan and experimental chronic arthritis, 2.5mg/kg ip); cytotoxic (cultural hmn throat epicytoma cells *in vitro*, EC = 0.333µg/mL). Source: ROU MAO DI DAN CAO *Elephantopus mollis*. Ref: 4, 658.

**14897 Molephantinin**

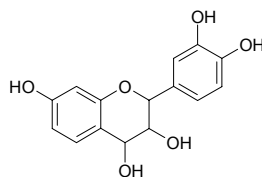
[56221-98-8] C₂₀H₂₄O₆ (360.41). mp 223~225°C. Pharm: Analgesic (mus, acetic acid-induced writhing model, 20mg/kg ip); antineoplastic (W₂₅₆, biotic prolonged rate = 297%, P₃₈₈, biotic prolonged rate = 46%, EAC, InRt = 88%); anti-inflammatory (rat, swollen foot model caused by carrageenan, 2.5mg/kg ip). Source: ROU MAO DI DAN CAO *Elephantopus mollis*. Ref: 4, 661.

**14898 Mollilactone**

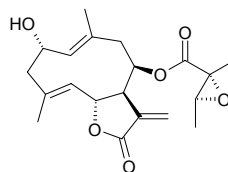
Mollilactone C₁₅H₂₀O₂ (232.33). Source: MIAN MAO MA DOU LING *Aristolochia mollissima*. Ref: 660.

**14899 Mollisacacidin**

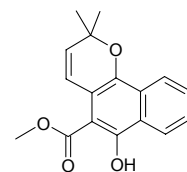
C₁₅H₁₄O₆ (290.28). mp 124~125°C. Source: ROU JIN HE HUAN *Acacia mollissima* (the compound was isolated from the plant by H.H.Kepler in 1957). Ref: 5505.

**14900 Mollisorin B**

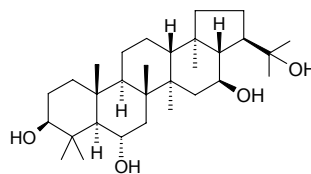
C₂₀H₂₆O₆ (362.43). Source: HUA ZE LAN *Eupatorium chinense* (whole herb: yield = 0.0073%). Ref: 4739.

**14901 Mollugin**

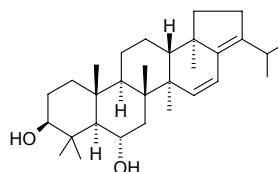
[55481-88-4] C₁₇H₁₆O₄ (284.31). Yellowish lamellar crystals, mp 128~130°C (recrystallization in alcohol), mp 132~134°C, easily soluble in chloroform, benzene and acetic acid; soluble in ether, methanol and acetone; slightly soluble in ethanol; insoluble in water, but soluble in a water solution of sodium hydroxide or potassium hydroxide. Pharm: Cytotoxic (hmn colon cancer assay, antiproliferative)^[5038]. Source: DA YE QIAN CAO *Rubia schumannina*, QIAN CAO GEN *Rubia cordifolia*, SU ZHU YANG YANG *Galium mollugo*. Ref: 22, 1363, 5038.

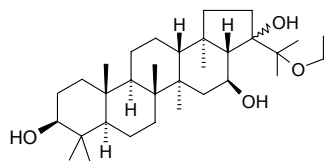
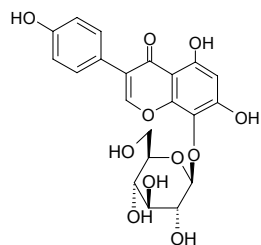
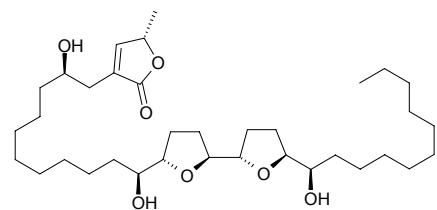
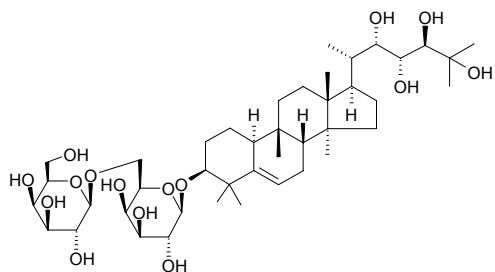
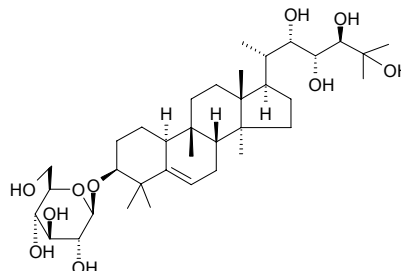
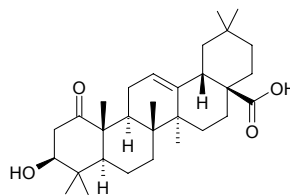
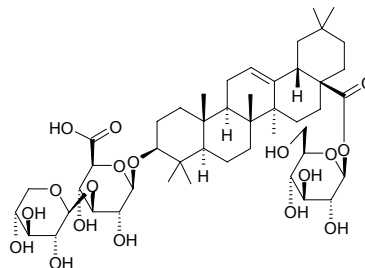
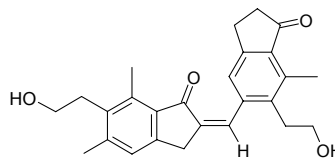
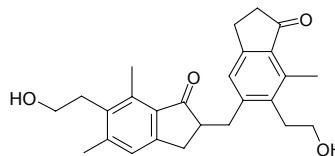
**14902 Mollugogenol A**

[22550-76-1] C₃₀H₅₂O₄ (476.75). Source: SU MI CAO *Mollugo pentaphylla*. Ref: 1440.

**14903 Mollugogenol B**

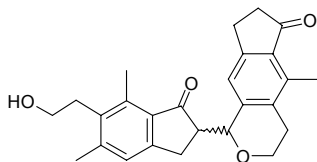
[22554-64-9] C₃₀H₄₈O₂ (440.72). Source: SU MI CAO *Mollugo pentaphylla*. Ref: 1440.



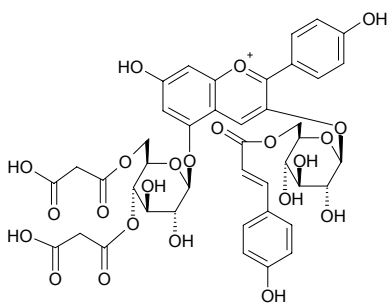
14904 Mollugogenol D[59553-44-5] C₃₂H₅₆O₄ (504.80). Source: SU MI CAO *Mollugo pentaphylla*.Ref: 1440.**14905 Mollupentin**C₂₁H₂₀O₁₁ (448.39). Source: SU MI CAO *Mollugo pentaphylla*. Ref: 1441.**14906 Molvizarin**[138551-26-5] C₃₅H₆₂O₇ (594.88). Amorphism, mp 36~38°C, [α]_D = -9.7° (c = 0.13, methanol). Pharm: Antiprotozoal; cytotoxic (A549, HT29, A498, PC3 and PACA-2, ED₅₀ = 0.00000709-0.0000447ng/mL, BST, LC₅₀ = 0.0526μg/mL, KB); NADH ubiquinone reductase inhibitor (mitochondria, IC₅₀ = 1.7nmol/L); mitochondrial complex I selective inhibitor (NADH oxidase IC₅₀ = (1.55±0.17)nmol/L, p<0.001, control Rotenone, IC₅₀ = (5.10±0.09)nmol/L)^[5024]. Source: FAN LI ZHI *Annona squamosa*, MAO YE FAN LI ZHI *Annona cherimolia* (seed), NIU XIN FAN LI ZHI *Annona reticulata*. Ref: 1045, 1546, 1547, 1548, 5024.**14907 Momorcharaside A**[135126-59-9] C₄₂H₇₂O₁₅ (817.03). Colorless prismatic crystals, mp 170~172°C, [α]_D¹⁹ = +0.80° (c = 1.80, methanol). Pharm: Antineoplastic (S₁₈₀, 100μg/mL, inhibits DNA synthesize, InRt = 58%, inhibits RNA synthesize, InRt = 55%). Source: KU GUA *Momordica charantia*. Ref: 176.**14908 Momorcharaside B**C₃₆H₆₂O₁₀ (654.89). Colorless acicular crystals, mp 186~189°C. Source: KU GUA *Momordica charantia*. Ref: 176.**14909 Momordic acid**[14356-51-5] C₃₀H₄₆O₄ (470.70). mp 274~276°C. Source: MU BIE ZI *Momordica cochinchinensis*. Ref: 6.**14910 Momordin IIc**C₄₇H₇₄O₁₈ (927.10). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.**14911 Monachosorin A**[100217-75-2] C₂₆H₂₈O₄ (404.51). Source: WEI YE XI ZI JUE *Monachosorum flagellare*, XI ZI JUE *Monachosorum henryi*. Ref: 1505.**14912 Monachosorin B**[100217-76-3] C₂₆H₃₀O₄ (406.53). Source: WEI YE XI ZI JUE *Monachosorum flagellare*, XI ZI JUE *Monachosorum henryi*. Ref: 1505.

14913 Monachosorin C

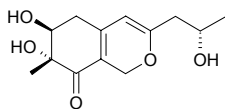
[100217-77-4] C₂₆H₂₈O₄ (404.51). Source: WEI YE XI ZI JUE *Monachosorum flagellare*, XI ZI JUE *Monachosorum henryi*. Ref: 1505.

**14914 Monardaecin**

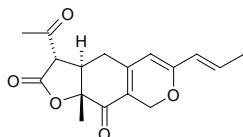
Monardein C₄₂H₄₁O₂₃⁺ (913.78). Source: MEI GUO BO HE *Monarda didyma*, XI YANG HONG *Salvia splendens*. Ref: 658.

**14915 Monascusone A**

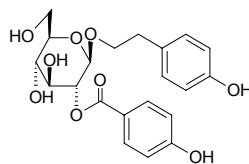
6,7-Dihydroxy-3-(2-hydroxy-propyl)-7-methyl-1,5,6,7-tetrahydro-isochromen-8-one C₁₃H₁₈O₅ (254.29). Yellow viscous liquid, [α]_D³⁰ = +71.95° (c = 0.93, CHCl₃). Pharm: Antimalarial inactive (*Plasmodium falciparum* K1, control Dihydroartemisinin, IC₅₀ = (1.2±0.02)μg/mL); antitubercular inactive (*Mycobacterium tuberculosis* H37Ra, control Isoniazid, MIC = 0.040~0.090μg/mL; Kanamycin sulfate, MIC = 2.0~5.0μg/mL); antifungal inactive (*Candida albicans*, control Amphotericin B, IC₅₀ = (0.04±0.01)μg/mL); cytotoxic inactive (BC, control Ellipticine, IC₅₀ = 0.3μg/mL; KB, Ellipticine, IC₅₀ = 0.3μg/mL). Source: GAO LIANG HONG QU *Monascus kaoliang* (fungal). Ref: 3858.

**14916 Monascusone B**

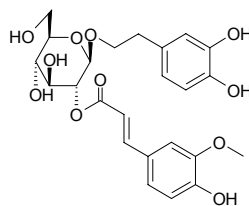
C₁₇H₁₈O₅ (302.33). Yellow viscous liquid, [α]_D³⁰ = +205.47° (c = 0.28, CHCl₃). Source: GAO LIANG HONG QU *Monascus kaoliang*. Ref: 3858.

**14917 Monnieraside I**

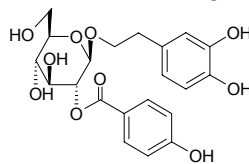
α-O-[2-O-(4-Hydroxybenzoyl)-β-D-glucopyranosyl]-4-hydroxyphenylethanol C₂₁H₂₄O₉ (420.42). Amorphous, [α]_D²³ = -14° (c = 0.8, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4254.

**14918 Monnieraside II**

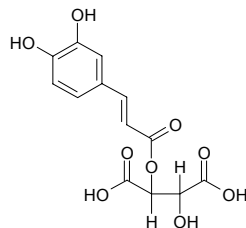
α-O-[2-O-(3-Methoxy-4-hydroxycinnamoyl)-β-D-glucopyranosyl]-3,4-dihydroxyphenylethanol C₂₄H₂₈O₁₁ (492.48). Amorphous, [α]_D²³ = -8° (c = 0.7, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4254.

**14919 Monnieraside III**

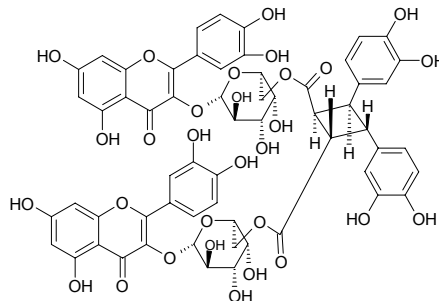
α-O-[2-O-(4-Hydroxybenzoyl)-β-D-glucopyranosyl]-3,4-dihydroxyphenylethanol C₂₁H₂₄O₁₀ (436.42). Amorphous, [α]_D²³ = -3° (c = 0.3, MeOH). Source: JIA MA CHI XIAN *Bacopa monniera* (aerial parts). Ref: 4254.

**14920 Monocaffeoyltartaric acid**

C₁₃H₁₂O₉ (312.24). mp 146~147°C. Source: JU QU *Cichorium intybus*. Ref: 6.

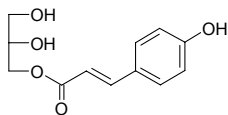
**14921 Monochaetin**

C₆₀H₅₂O₃₀ (1253.07). White amorphous powder, [α]_D = +25.0° (c = 1.0, MeOH). Source: *Monochaetum multiflorum* (leaf). Ref: 5185.

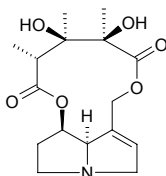


14922 Mono-*p*-coumaroyl glyceride

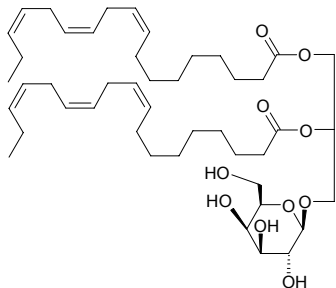
$C_{12}H_{14}O_5$ (238.24). Source: DENG XIN CAO *Juncus effusus*. Ref: 1517.

**14923 Monocrotaline**

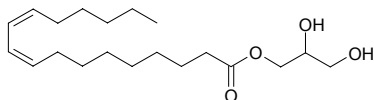
Crotaline; Retronecine† [315-22-0] $C_{16}H_{23}NO_6$ (325.36). White acicular crystals, mp 197~198°C (dec), $[\alpha]_D^{26} = -54.7^\circ$ (chloroform), soluble in absolute ethanol, chloroform, slightly soluble in water, ether, acetone, insoluble in petroleum ether.^[5507] Pharm: Antineoplastic (in local use only, squamous carcinoma in skin, basal cell carcinoma); carcinogen, causes hepatic cancer; antispasmodic; mutagen; antihypertensive (dog); LD₅₀ (mus, ip) = 296mg/kg, (rat, sc) = 134mg/kg. Source: AO ZHU SHI DOU *Crotalaria retusa*, MEI LI ZHU SHI DOU *Crotalaria spectabilis*, TUO YE ZHU SHI DOU *Crotalaria stipularia*, WU YE ZHU SHI DOU *Crotalaria quinquefolia*, XIAO ZHU SHI DOU *Crotalaria nana*, YE BAI HE *Crotalaria sessiliflora*, ZI XIAO RONG ZI *Crotalaria assamica*, ZOU BO ZHUANG ZHU SHI DOU *Crotalaria crispata*. Ref: 4, 658, 5507.

**14924 Monogalactosyldiglyceride**

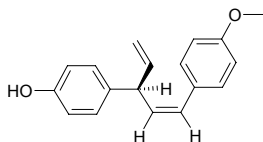
Ubiquitous 1,2-dilinolenoyl-3-galactopyranosylglycerol $C_{45}H_{74}O_{10}$ (775.09). Source: *Trichilia pruriaria* (leaf). Ref: 3994.

**14925 1-Monolinolein**

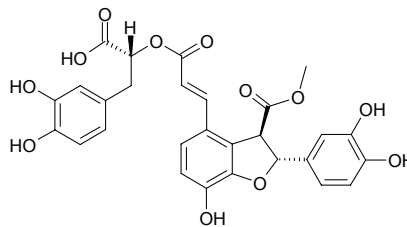
$C_{20}H_{36}O_4$ (340.51). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**14926 Monomethyl-*cis*-hinokiresinol**

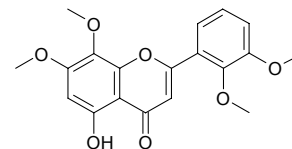
$C_{18}H_{18}O_2$ (266.34). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 1395.

**14927 Monomethyl lithospermate**

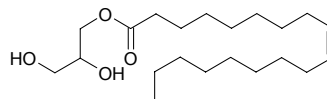
$C_{28}H_{24}O_{12}$ (552.50). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 1370.

**14928 Mono-*O*-methylwightin**

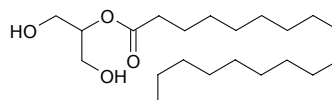
$C_{19}H_{18}O_7$ (358.35). mp 150°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2.

**14929 α-Monoolein**

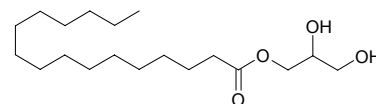
[111-03-5] $C_{21}H_{40}O_4$ (356.55). mp 35°C Source: MANG GUO HE *Mangifera indica*. Ref: 6.

**14930 β-Monoolein**

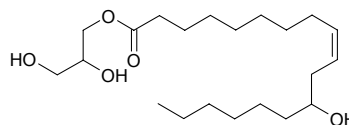
[3443-84-3] $C_{21}H_{40}O_4$ (356.55). mp 26°C. Source: MANG GUO HE *Mangifera indica*. Ref: 6.

**14931 L-(-)-α-Monopalmitin**

(2*S*)-1-*O*-Palmitoyl glycerol [19670-51-0] $C_{19}H_{38}O_4$ (330.51). Pharm: Cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; cytotoxic (cyclooxygenase-2 inhibitor)^[5038]. Source: SHI DIAO BAI *Asparagus officinalis*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XI NANG MA WEI ZAO *Sargassum parvivesiculosum*. Ref: 2, 660, 2591, 5038.

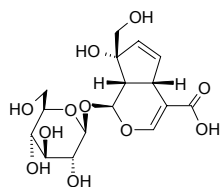
**14932 Monoricinolein**

$C_{21}H_{40}O_5$ (372.55). Source: BI MA YOU *Ricinus communis*. Ref: 6.

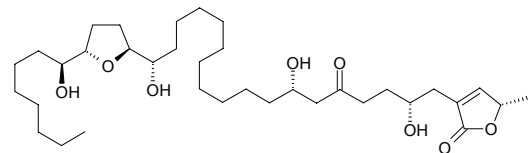


14933 Monotropein

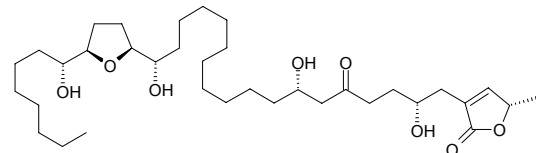
$C_{16}H_{22}O_{11}$ (290.35). mp 175°C (dec) **Pharm:** Antidiarrheal (mus, $ED_{50} > 0.5\text{g/kg}$). **Source:** AI LAI MU *Cornus suecica*, BA JI TIAN *Morinda officinalis*, FEN LU ZHU YANG YANG *Galium glaucum*, HUANG SHUI JING LAN *Monotropa hypopitys*, RI BEN LU TI CAO *Pyrola japonica*, SHUI JING LAN *Monotropa uniflora*, XIONG GUO *Arctostaphylos uva-ursi*. **Ref:** 6, 658, 5501.

**14934 Montacin**

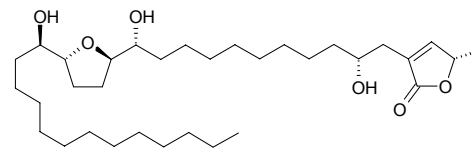
$C_{35}H_{62}O_8$ (610.88). Colorless waxy solid, $[\alpha]_D^{25} = +4.7^\circ$ ($c = 0.38$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*: A549, $ED_{50} = 12.9\mu\text{g/mL}$; MCF7, $ED_{50} = 10\mu\text{g/mL}$; HCT8, $ED_{50} = 16.5\mu\text{g/mL}$; SK-MEL-2, $ED_{50} = 11.2\mu\text{g/mL}$; KB, $ED_{50} = 16.6\mu\text{g/mL}$; KB-VIN, $ED_{50} > 20\mu\text{g/mL}$; U-87-MG, $ED_{50} > 20\mu\text{g/mL}$; CAKI, $ED_{50} > 20\mu\text{g/mL}$; PC3, $ED_{50} > 20\mu\text{g/mL}$; 1A9 (3 day), $ED_{50} > 10\mu\text{g/mL}$; PTX10 (3 day), $ED_{50} > 10\mu\text{g/mL}$; 1A9 (6 day), $ED_{50} = 6.7\mu\text{g/mL}$; PTX10 (6 day), $ED_{50} = 7.9\mu\text{g/mL}$; control Ca^{2+} : A549, $ED_{50} > 20\mu\text{g/mL}$; MCF7, $ED_{50} > 20\mu\text{g/mL}$; HCT8, $ED_{50} > 20\mu\text{g/mL}$; KB, $ED_{50} > 20\mu\text{g/mL}$; PC3, $ED_{50} > 20\mu\text{g/mL}$; 1A9 (3 day), $ED_{50} > 20\mu\text{g/mL}$; PTX10 (3 day), $ED_{50} > 20\mu\text{g/mL}$; PTX10 (6 day), $ED_{50} > 20\mu\text{g/mL}$); cytotoxic (This compound + Ca^{2+} from $CaCl_2$, *in vitro*: A549, $ED_{50} = 7.4\mu\text{g/mL}$; MCF7, $ED_{50} = 5.5\mu\text{g/mL}$; HCT8, $ED_{50} = 12.3\mu\text{g/mL}$; SK-MEL-2, $ED_{50} = 13.3\mu\text{g/mL}$; KB, $ED_{50} = 9.1\mu\text{g/mL}$; KB-VIN, $ED_{50} = 13.9\mu\text{g/mL}$; U-87-MG, $ED_{50} = 14.2\mu\text{g/mL}$; CAKI, $ED_{50} = 14.2\mu\text{g/mL}$; PC3, $ED_{50} = 14.2\mu\text{g/mL}$; 1A9 (3 day), $ED_{50} = 6.7\mu\text{g/mL}$; PTX10 (3 day), $ED_{50} = 7.5\mu\text{g/mL}$; 1A9 (6 day), $ED_{50} = 4.5\mu\text{g/mL}$; PTX10 (6 day), $ED_{50} = 2.8\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.0015%). **Ref:** 4775.

**14935 cis-Montacin**

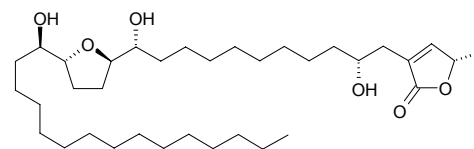
$C_{35}H_{62}O_8$ (610.88). White waxy solid, $[\alpha]_D^{25} = +9.4^\circ$ ($c = 0.17$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*: A549, $ED_{50} = 6\mu\text{g/mL}$; MCF7, $ED_{50} = 6.7\mu\text{g/mL}$; HCT8, $ED_{50} = 12.9\mu\text{g/mL}$; KB, $ED_{50} = 7.7\mu\text{g/mL}$; KB-VIN, $ED_{50} = 13.4\mu\text{g/mL}$; U-87-MG, $ED_{50} = 15\mu\text{g/mL}$; PC3, $ED_{50} = 11.9\mu\text{g/mL}$; 1A9 (3d), $ED_{50} = 3.6\mu\text{g/mL}$; PTX10 (3d), $ED_{50} = 5.9\mu\text{g/mL}$; 1A9 (6d), $ED_{50} = 0.54\mu\text{g/mL}$; PTX10 (6d), $ED_{50} = 1.8\mu\text{g/mL}$; control Ca^{2+} : A549, $ED_{50} > 20\mu\text{g/mL}$; MCF7, $ED_{50} > 20\mu\text{g/mL}$; HCT8, $ED_{50} > 20\mu\text{g/mL}$; KB, $ED_{50} > 20\mu\text{g/mL}$; PC3, $ED_{50} > 20\mu\text{g/mL}$; 1A9 (3d), $ED_{50} > 20\mu\text{g/mL}$; PTX10 (3d), $ED_{50} > 20\mu\text{g/mL}$; PTX10 (6d), $ED_{50} > 20\mu\text{g/mL}$); cytotoxic (This compound + Ca^{2+} from $CaCl_2$, *in vitro*: A549, $ED_{50} = 5.5\mu\text{g/mL}$; MCF7, $ED_{50} = 6.5\mu\text{g/mL}$; HCT8, $ED_{50} = 111.7\mu\text{g/mL}$; KB, $ED_{50} = 8.2\mu\text{g/mL}$; KB-VIN, $ED_{50} = 13.8\mu\text{g/mL}$; U-87-MG, $ED_{50} = 14.3\mu\text{g/mL}$; PC3, $ED_{50} = 12.1\mu\text{g/mL}$; 1A9 (3d), $ED_{50} = 2\mu\text{g/mL}$; PTX10 (3d), $ED_{50} = 5.3\mu\text{g/mL}$; 1A9 (6d), $ED_{50} = 0.13\mu\text{g/mL}$; PTX10 (6d), $ED_{50} = 0.11\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed: yield = 0.00075%). **Ref:** 4775.

**14936 Montalicin A**

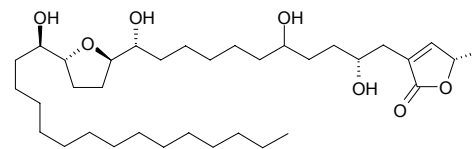
$C_{33}H_{60}O_6$ (552.84). Colorless waxy solid, $[\alpha]_D^{25} = +17.0^\circ$ ($c = 0.34$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro* HepG2, $EC_{50} < 0.01\mu\text{g/mL}$, Hep3B, $EC_{50} = 2.81\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14937 Montalicin B**

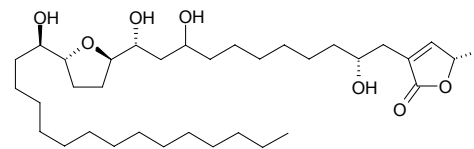
$C_{35}H_{64}O_6$ (580.90). Colorless waxy solid, $[\alpha]_D^{25} = +13.1^\circ$ ($c = 0.60$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro* HepG2, $EC_{50} = 0.53\mu\text{g/mL}$, Hep3B, $EC_{50} = 8.97\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14938 Montalicin C**

$C_{35}H_{64}O_7$ (596.90). Colorless waxy solid, $[\alpha]_D^{25} = +16.7^\circ$ ($c = 0.34$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro* HepG2, $EC_{50} = 0.022\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.82\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

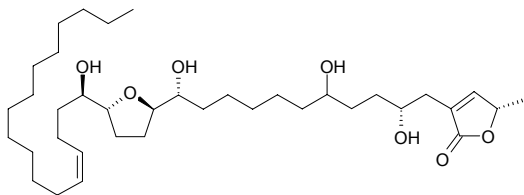
**14939 Montalicin D**

$C_{35}H_{64}O_7$ (596.90). Colorless waxy solid, $[\alpha]_D^{25} = -3.5^\circ$ ($c = 0.43$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro* HepG2, $EC_{50} = 1.99\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

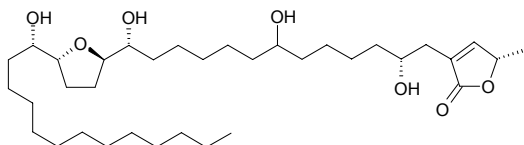


14940 Montalicin E

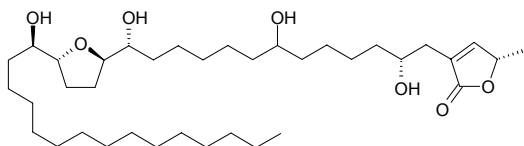
$C_{37}H_{66}O_7$ (622.93). Colorless waxy solid, $[\alpha]_D^{25} = +16.5^\circ$ ($c = 0.23$, $CHCl_3$).
Pharm: Cytotoxic (*in vitro* HepG2, $EC_{50} = 0.13\mu\text{g/mL}$, Hep3B, inactive; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$).
Source: SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14941 Montalicin F**

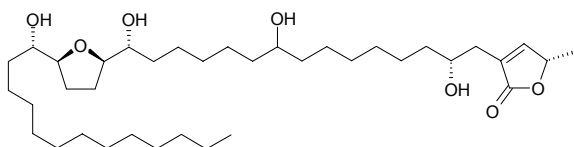
$C_{35}H_{64}O_7$ (596.90). Colorless waxy solid, $[\alpha]_D^{25} = +19.5^\circ$ ($c = 0.15$, $CHCl_3$).
Pharm: Cytotoxic (*in vitro* HepG2, $EC_{50} < 0.01\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14942 Montalicin I**

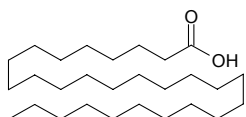
$C_{37}H_{68}O_7$ (624.95). Colorless waxy solid, $[\alpha]_D^{25} = +16.7^\circ$ ($c = 0.34$, $CHCl_3$).
Pharm: Cytotoxic (*in vitro* HepG2, $EC_{50} = 0.11\mu\text{g/mL}$, Hep3B, inactive; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$).
Source: SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14943 Montalicin J**

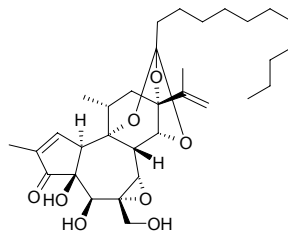
$C_{37}H_{68}O_7$ (624.95). Colorless waxy solid, $[\alpha]_D^{25} = +7.3^\circ$ ($c = 1.39$, $CHCl_3$).
Pharm: Cytotoxic (*in vitro* HepG2, $EC_{50} < 0.01\mu\text{g/mL}$, Hep3B, $EC_{50} = 2.38\mu\text{g/mL}$; control Doxorubicin, HepG2, $EC_{50} = 0.38\mu\text{g/mL}$, Hep3B, $EC_{50} = 0.36\mu\text{g/mL}$). **Source:** SHAN FAN LI ZHI *Annona montana* (seed). **Ref:** 5035.

**14944 Montanic acid**

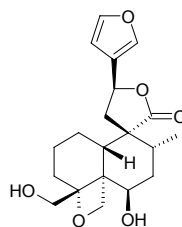
Octacosanoic acid [506-48-9] $C_{28}H_{56}O_2$ (424.76). **Source:** HUI BAO HAO *Artemisia roxburgiana*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. **Ref:** 2, 503, 660.

**14945 Montanin**

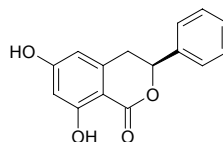
[66583-55-9] $C_{32}H_{48}O_8$ (560.73). **Pharm:** Cytotoxic (leukemia). **Source:** BAN ZI MU *Baliospermum montanum*. **Ref:** 658.

**14946 Montanin D**

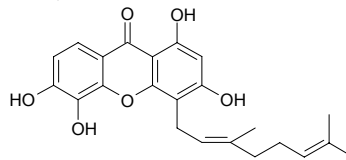
$C_{20}H_{26}O_6$ (362.43). **Pharm:** Insect antifeedant (*Spodoptera litura*, $10\mu\text{g/cm}^2$, antifeedant activity = $(73\pm 3)\%$, control Azadirachtin A, $0.5\mu\text{g/cm}^2$, antifeedant activity = $(79\pm 2)\%$; *Plutella xylostella*, $10\mu\text{g/cm}^2$, antifeedant activity = $(70\pm 2)\%$, control Azadirachtin A, $0.5\mu\text{g/cm}^2$, antifeedant activity = $(71\pm 2)\%$)^[3478]. **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts), SHAN XIANG KE KE *Teucrium montanum*. **Ref:** 1521, 3478.

**14947 Montroumarin**

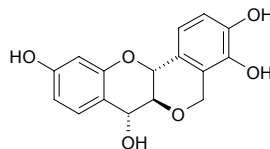
$C_{15}H_{12}O_4$ (256.26). Colorless oil, $[\alpha]_D = +68^\circ$ ($c = 0.057$, $CHCl_3$). **Source:** *Montrouzieria sphaeroidea* (stem cortex). **Ref:** 3941.

**14948 Montrouxanthone**

$C_{23}H_{24}O_6$ (396.44). Yellow oil. **Source:** *Montrouzieria sphaeroidea* (stem cortex). **Ref:** 3941.

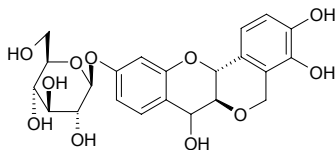
**14949 (+)-Mopanol**

$C_{16}H_{14}O_6$ (302.29). Yellow needles, mp $185\sim 187^\circ\text{C}$; $[\alpha]_D^{20} = +45.2^\circ$ ($c = 0.02$, CH_3OH). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin and N^{10} -L-nitroarginine (L-NA) at $10\mu\text{mol/L}$ Ach, $10\mu\text{mol/L}$, relaxation = $(85\pm 2)\%$, control Sodium nitroprusside, relaxation = $(109\pm 5)\%$). **Source:** YI HUA *Lysidice rhodostegia* (root). **Ref:** 4086.

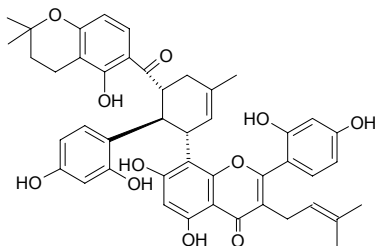


14950 Mopanolside

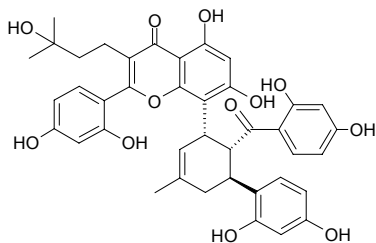
$C_{22}H_{24}O_{11}$ (464.43). Yellow needles, mp 273~275°C; $[\alpha]_D^{20} = +103.0^\circ$ ($c = 0.2$, CH_3OH). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin and N^{10} -L-nitroarginine (L-NA) at $10\mu mol/L$ Ach, $10\mu mol/L$, relaxation = $(53\pm 5)\%$, control Sodium nitroprusside, relaxation = $(109\pm 5)\%$). **Source:** YI HUA *Lysidice rhodostegia* (root). **Ref:** 4086.

**14951 Moracenin C**

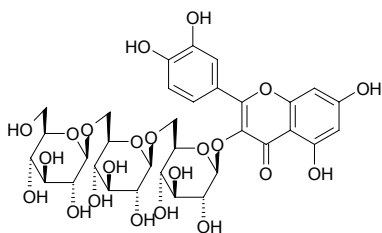
[76069-36-8] $C_{45}H_{44}O_{11}$ (760.85). **Pharm:** Antihypertensive (strong action). **Source:** SANG BAI PI *Morus alba*. **Ref:** 1425.

**14952 Moracenin D**

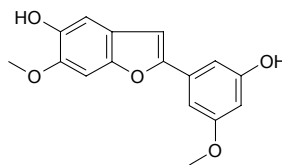
[78277-79-9] $C_{40}H_{38}O_{12}$ (710.74). **Pharm:** Antihypertensive (strong action). **Source:** SANG BAI PI *Morus alba*. **Ref:** 1426, 1635.

**14953 Moracetin**

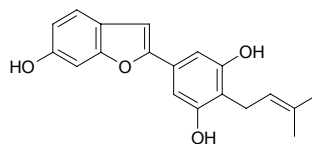
$C_{33}H_{40}O_{22}$ (788.67). mp 211~214°C. **Source:** SANG YE *Morus alba*. **Ref:** 6.

**14954 Moracin B**

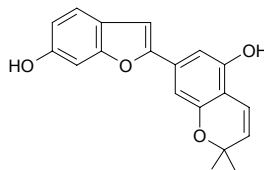
$C_{16}H_{14}O_5$ (286.29). mp 184~185°C. **Pharm:** Antifungal (*Diaporthe nomurai*, MIC = 12~25 $\mu g/mL$, *Stigmima mori*, MIC = 49 $\mu g/mL$, *Bipolaris leersiac*). **Source:** SANG YE *Morus alba*. **Ref:** 661, 658.

**14955 Moracin C**

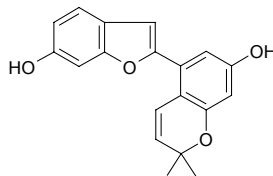
$C_{19}H_{18}O_4$ (310.35). mp 198~199°C. **Pharm:** Antifungal. **Source:** SANG YE *Morus alba*. **Ref:** 661.

**14956 Moracin D**

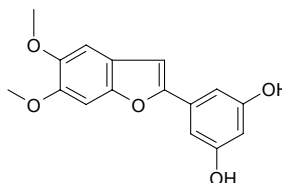
$C_{19}H_{16}O_4$ (308.34). mp 130~131°C. **Pharm:** Antifungal; aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40\mu mol/L$; control Aminoglutethimide, $IC_{50} = 6.4\mu mol/L$)^[3090]. **Source:** GOU SHU *Broussonetia papyrifera*^[3090], SANG YE *Morus alba*. **Ref:** 661, 3090.

**14957 Moracin E**

$C_{19}H_{16}O_4$ (308.34). mp 184~185°C. **Pharm:** Antifungal (*Diaporthe nomurai*, CIMC = 15 $\mu g/mL$, *Stigmima mori*, CIMC = 200 $\mu g/mL$, *Sclerotinia*, CIMC = 50 $\mu g/mL$). **Source:** SANG YE *Morus alba*. **Ref:** 661.

**14958 Moracin F**

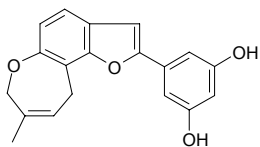
$C_{16}H_{14}O_5$ (286.29). mp 188~189°C. **Pharm:** Antifungal (*Diaporthe nomurai*, CIMC = 1000 $\mu g/mL$, *Stigmima mori* and *Sclerotinia*, CIMC = 50 $\mu g/mL$). **Source:** SANG YE *Morus alba*. **Ref:** 661.



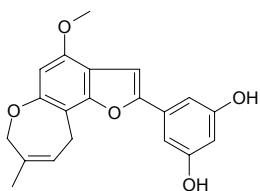
14959 Moracin G

$C_{19}H_{16}O_4$ (308.34). mp 198~199°C. **Pharm:** Antifungal (*Diaporthe nomurai* and *Stigmima mori*, CIMC = 50 μ g/mL, *Sclerotinia*, CIMC = 500 μ g/mL).

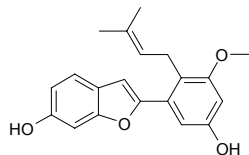
Source: SANG YE *Morus alba*. **Ref:** 661.

**14960 Moracin H**

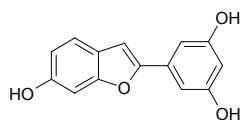
$C_{20}H_{18}O_5$ (338.36). mp 191~192°C. **Pharm:** Antifungal (*Diaporthe nomurai*, CIMC = 15 μ g/mL, *Stigmima mori*, CIMC = 100 μ g/mL). **Source:** SANG YE *Morus alba*. **Ref:** 661.

**14961 Moracin I**

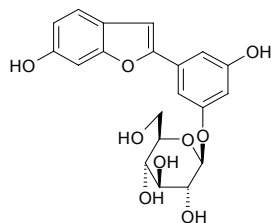
Anticancer Benzofuran PMV70P691-65 $C_{20}H_{20}O_4$ (324.38). **Pharm:** Cytotoxic (estrogen α receptor-binding assay)^[5038], cytotoxic (estrogen β receptor-binding assay)^[5038], cytotoxic (hmn breast cancer cells, antiproliferative)^[5038], cytotoxic (cyclooxygenase-1 inhibitor)^[5038], aromatase inhibitor inactive (*in vitro*, IC_{50} > 40 μ mol/L; control Aminoglutethimide, IC_{50} = 6.4 μ mol/L)^[3090]. **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.

**14962 Moracin M**

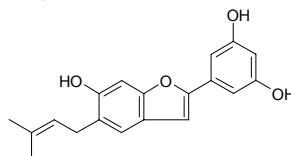
Anticancer Benzofuran PMV70P691-66 $C_{14}H_{10}O_4$ (242.23). **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor)^[5038], Aromatase inhibitor inactive (*in vitro*, IC_{50} > 40 μ mol/L; control Aminoglutethimide, IC_{50} = 6.4 μ mol/L)^[3090]. **Source:** DA DA HE MIAN BAO GUO *Artocarpus dadah*, GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.

**14963 Moracin M 3'-O- β -D-glucopyranoside**

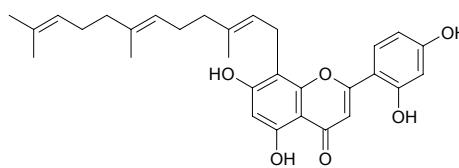
$C_{20}H_{20}O_9$ (404.38). **Source:** WEI JING BAI HE *Schoenocaulon officinale* (rhizome). **Ref:** 4210.

**14964 Moracin N**

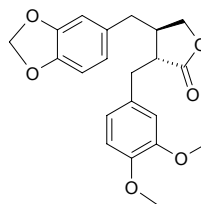
Anticancer Benzofuran PMV70P691-67 $C_{19}H_{18}O_4$ (310.35). **Pharm:** Aromatase inhibitor (*in vitro*, IC_{50} = 31 μ mol/L; control Aminoglutethimide, IC_{50} = 6.4 μ mol/L). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.

**14965 Moralbanone**

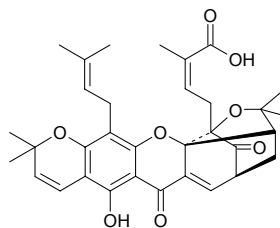
$C_{30}H_{34}O_6$ (490.60). Yellow powder. **Pharm:** Antiviral; cytotoxic (Vero cellines). **Source:** SANG BAI PI *Morus alba*. **Ref:** 2032.

**14966 Morelensin**

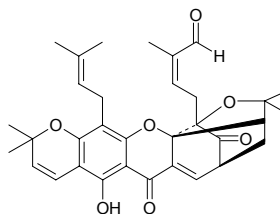
$C_{21}H_{22}O_6$ (370.41). **Source:** E SHEN *Anthriscus sylvestris*. **Ref:** 5499.

**14967 Morellic acid**

α_2 -Guttiiferin [173792-68-2] $C_{33}H_{36}O_8$ (560.65). **Pharm:** Cytotoxic (HeLa, MIC = 3.13 μ g/mL, hmn embryonic lung fibrocyte HEL, MIC = 3.13 μ g/mL); antibacterial (methicillin-resistant *Staphylococcus aureus*, MIC = 25 μ g/mL)^[4487]. **Source:** TENG HUANG *Garcinia morella*, TENG HUANG SHU *Garcinia hanburyi* (fresh fruit). **Ref:** 6, 1099, 4487.

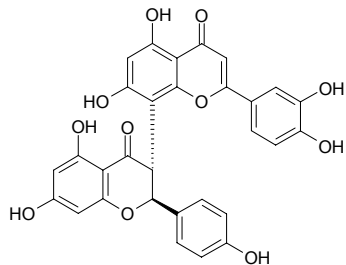
**14968 Morellin**

[1183-12-6] $C_{33}H_{36}O_7$ (544.65). mp 157~159°C. **Pharm:** Antibiotic. **Source:** TENG HUANG *Garcinia morella*, TENG HUANG SHU *Garcinia hanburyi* (fresh fruit). **Ref:** 6, 658, 4487.

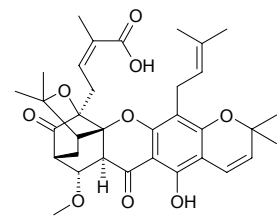


14969 Morelloflavone

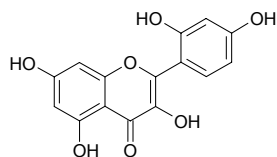
$C_{30}H_{20}O_{11}$ (556.49). mp (+) 244–245°C (dec), (±) 298°C (dec). **Pharm:** Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 51%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC > 128 μ g/mL, Vancomycin, MIC = 2 μ g/mL)^[5319]. **Source:** SHAN ZHU ZI *Garcinia multiflora*, TENG HUANG *Garcinia morella*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 6, 4422, 5319.

**14970 Moreollic acid**

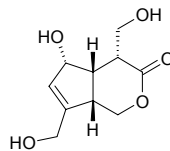
$C_{34}H_{40}O_9$ (592.69). **Pharm:** Antibacterial (methicillin-resistant *Staphylococcus aureus*, MIC = 25 μ g/mL). **Source:** TENG HUANG SHU *Garcinia hanburyi* (fresh fruit). **Ref:** 4487.

**14971 Morin**

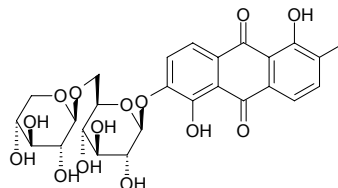
3,5,7,2',4'-Pentahydroxyflavone; Osage orange [480-16-0] $C_{15}H_{10}O_7$ (302.24). mp 303–304°C; 285–290°C (dec). **Pharm:** Allergen; antibacterial (*Staphylococcus aureus*, *Bacillus dysenteriae*, *B. typhosus*); antineoplastic (glandular carcinoma 755, L1210, P388, S180, all *in vivo*); antispasmodic (gpg ileum, cholinesterase inhibitor, ED₅₀ of anti-angiotensin = 600 μ g/mL and ED₅₀ of anti-eledoisin = 107 μ g/mL); antiviral (herpes virus, EC = 50 μ g/mL; potato virus); diuretic (rbt, 25mg/kg); aldose reductase inhibitor (rat eye lens *in vivo*, CIC = 100 μ mol/L); Δ^5 -lipoxygenase inhibitor; iodine-induced thyronine deiodinase inhibitor; mutagen (*Salmonella aertrycke*); phagostimulant (silkworm); anti-inflammatory (modulator of cytokine network; leukocyte elastase MMP-2/9 inhibitor)^[4416]; anti-inflammatory (COX-2 inhibitor, rat renal medulla, and macrophages, moderate activity)^[4415]; LD (rbt, sc) = 8–10g/kg. **Source:** JU CHI SANG *Morus serrata*, QUAN YUAN YE BO LUO MI *Artocarpus integrifolia*, RAN SE SANG *Morus tinctoria*, SANG BAI PI *Morus alba*, SANG YE *Morus alba*, SANG ZHI *Morus alba*. **Ref:** 4, 658, 4415, 4416, 5501.

**14972 Morindacin**

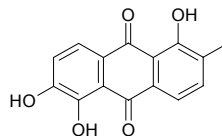
$C_{10}H_{14}O_5$ (214.22). Colorless syrup, $[\alpha]_D^{26} = +2.0^\circ$ ($c = 0.2$, MeOH). **Source:** HAI BA JI *Morinda citrifolia* (fruit). **Ref:** 4542.

**14973 Morindin**

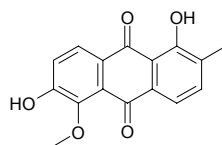
[60450-21-7] $C_{26}H_{28}O_{14}$ (564.50). mp 264.5°C (dec). **Source:** BA JI TIAN *Morinda officinalis*. **Ref:** 6, 1521.

**14974 Morindone**

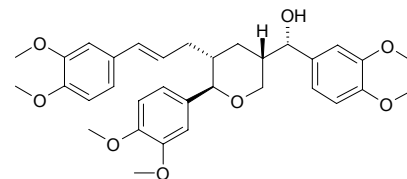
$C_{15}H_{10}O_5$ (270.24). mp 282°C. **Pharm:** Nacarat pigment. **Source:** HAI BA JI *Morinda citrifolia*, RAN SE JI YAN TENG *Morinda tinctoria*, TU LIAN QIAO *Hymenodictyon excelsum*. **Ref:** 6, 658.

**14975 Morindone-5-methylether**

$C_{16}H_{12}O_5$ (284.27). **Source:** HAI BA JI *Morinda citrifolia* (fruit). **Ref:** 4542.

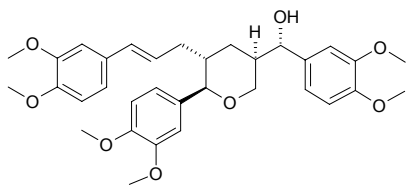
**14976 Morinol A**

$C_{33}H_{40}O_8$ (564.68). **Pharm:** Anti-inflammatory (modulator of cytokine network; inhibits cytokines formation, including TNF- α , IL-4, IL-2 and IFN- γ in hmn peripheral blood mononuclear cells). **Source:** YUAN E CI XU DUAN *Morinda chinensis*. **Ref:** 4416.

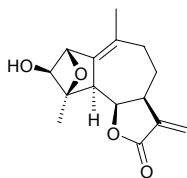


14977 Morinol B

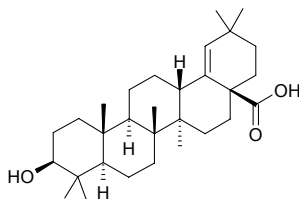
$C_{33}H_{40}O_8$ (564.68). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits cytokines formation, including TNF- α , IL-4, IL-2 and IFN- γ in hmn peripheral blood mononuclear cells, $IC_{50} > 10\mu\text{g/mL}$). **Source:** YUAN E CI XU DUAN *Morina chinensis*. **Ref:** 4416.

**14978 Moroccolide A**

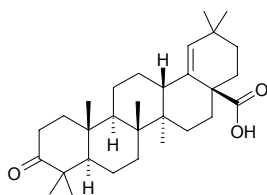
5 α H-2 β ,4-Epoxy-3 β -hydroxyguaia-1(10),11(13)-dien-6 β ,12-olide $C_{15}H_{18}O_4$ (262.31). Colorless gum, $[\alpha]_D^{22} = +62^\circ$ ($c = 0.1$, EtOH). **Pharm:** Cytotoxic (*in vitro*, KB, $IC_{50} = 4.5\mu\text{g/mL}$). **Source:** *Warionia saharae* (leaf: yield = 0.0020%dw). **Ref:** 4620.

**14979 Morolic acid**

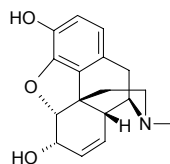
[559-68-2] $C_{30}H_{48}O_3$ (456.72). mp 273°C (dec). **Pharm:** Anti-inflammatory (*in vivo*, prevents ear oedema formation caused by PMA and synthesis of LOX products, especially LTC₄ and COX metabolites derived from arachidonic acid). **Source:** SHUI TUAN HUA *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], RU DU XIANG *Pistacia terebinthus*. **Ref:** 6, 4415.

**14980 Moronic acid**

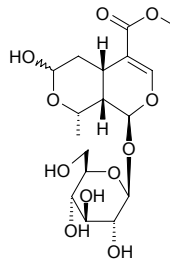
[6713-27-5] $C_{30}H_{46}O_3$ (454.70). **Source:** JIN ZHAN JU *Calendula officinalis* (flower). **Ref:** 3551.

**14981 Morphine**

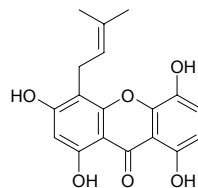
Morphia; Morphina [57-27-2] $C_{17}H_{19}NO_3$ (285.35). Colorless columnar crystals, mp 254°C, $[\alpha]_D^{20} = -132^\circ$ (CH₃OH), very slightly soluble in boiling water, slightly soluble in alcohol^[5507]. **Pharm:** Opioid agonist (gpg ileum, $pD_2 = (7.15 \pm 0.05)(-\log\text{mol/L})$ ^[5069]; anesthetic; analgesic (only used in treatment of pain due to wounds, operations or burns, myocardial infarction, and cardiac asthma because it is addictive); LD₅₀ (mus, sc) = 500mg/kg. **Source:** BAI YAO ZI *Stephania cepharantha*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], YA PIAN *Papaver somniferum* (latex from unripe capsules: mean content = 99.3%^[5508]), YING SU KE *Papaver somniferum* (capsule: content = 0.099%^[5508]), YING SU *Papaver somniferum* (seed: content $\approx 10\%$ ^[5507]). **Ref:** 2, 4, 658, 5069, 5507, 5508.

**14982 Morroniside**

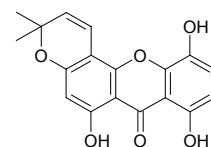
$C_{17}H_{26}O_{11}$ (406.39). Amorphous, $[\alpha]_D = -72^\circ$ ($c = 1$, EtOH), mp 103–105°C, $[\alpha]_D^{27} = -89.9^\circ$ ($c = 1.39$, MeOH). **Pharm:** Stomachic. **Source:** BAI JIANG *Patrinia villosa*, MO LUO SHI REN DONG *Lonicera morrowii*, RI BEN SHUANG HU DIE *Tripterospermum japonicum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], WU FU HUA *Adoxa moschatellina*, ZAN SHI LONG DAN *Gentiana thunbergii*. **Ref:** 2, 658, 3533.

**14983 Morusignin A**

$C_{18}H_{16}O_6$ (328.32). **Source:** *Morus* sp. **Ref:** 2513.

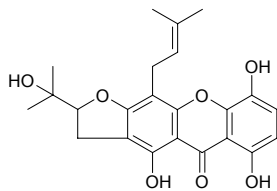
**14984 Morusignin C**

$C_{18}H_{14}O_6$ (326.31). **Source:** *Morus insignis*. **Ref:** 2513.

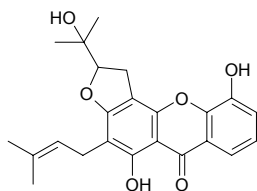


14985 Morusignin E

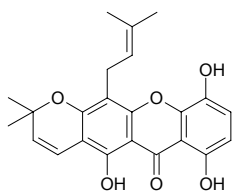
$C_{23}H_{24}O_7$ (412.44). Source: *Morus insignis*. Ref: 2513.

**14986 Morusignin H**

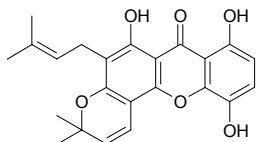
$C_{23}H_{24}O_6$ (396.44). Source: *Morus insignis*. Ref: 2513.

**14987 Morusignin I**

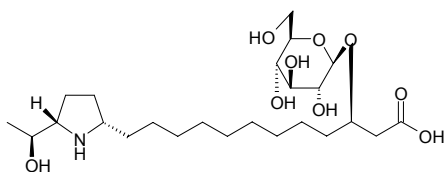
$C_{23}H_{22}O_6$ (394.43). Source: *Morus insignis*. Ref: 2513.

**14988 Morusignin J**

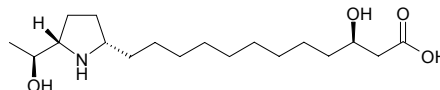
$C_{23}H_{22}O_6$ (394.43). Pharm: Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 11%, control BHT, 10 μ mol/L, ScRt = 43%)^[5319]. Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), *Morus insignis*. Ref: 1521, 4422, 5319.

**14989 Morusimic acid A**

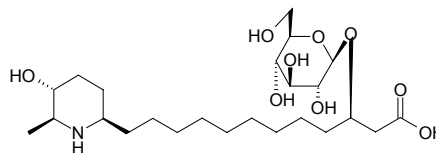
(3*R*)-3-Hydroxy-12-[(1*S*,4*S*)-4-[(1*S*)-1-hydroxyethyl]-pyrrolidin-1-yl]-dodecanoic acid-3-*O*- β -*D*-glucopyranoside $C_{24}H_{45}NO_9$ (507.63). Colorless powder, $[\alpha]_D = +15.3^\circ$ ($c = 0.18$, H_2O). Pharm: α -Glucosidase inhibitor inactive (control 1-Deoxyojirimucin, $IC_{50} = 0.98$ mmol/L, Fagoming, $IC_{50} = 15$ mmol/L). Source: SANG SHI *Morus alba*. Ref: 4161.

**14990 Morusimic acid B**

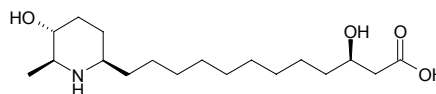
(3*R*)-3-Hydroxy-12-[(1*S*,4*S*)-4-[(1*S*)-1-hydroxyethyl]-pyrrolidin-1-yl]-dodecanoic acid $C_{18}H_{35}NO_4$ (329.48). Colorless powder, $[\alpha]_D = +8.8^\circ$ ($c = 0.42$, H_2O). Pharm: α -Glucosidase inhibitor inactive (control 1-Deoxyojirimucin, $IC_{50} = 0.98$ mmol/L, Fagoming, $IC_{50} = 15$ mmol/L). Source: SANG SHI *Morus alba*. Ref: 4161.

**14991 Morusimic acid C**

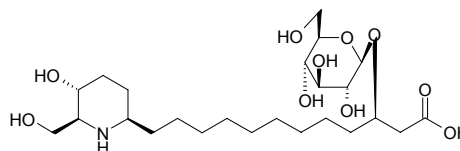
(3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid-3-*O*- β -*D*-glucopyranoside $C_{24}H_{45}NO_9$ (491.63). Colorless powder, $[\alpha]_D = -20.3^\circ$ ($c = 0.24$, H_2O). Pharm: α -Glucosidase inhibitor inactive (control 1-Deoxyojirimucin, $IC_{50} = 0.98$ mmol/L, Fagoming, $IC_{50} = 15$ mmol/L). Source: SANG SHI *Morus alba*. Ref: 4161.

**14992 Morusimic acid D**

(3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid $C_{18}H_{35}NO_4$ (329.48). Colorless powder, $[\alpha]_D = -14.6^\circ$ ($c = 0.25$, H_2O). Pharm: α -Glucosidase inhibitor inactive (control 1-Deoxyojirimucin, $IC_{50} = 0.98$ mmol/L, Fagoming, $IC_{50} = 15$ mmol/L). Source: SANG SHI *Morus alba*. Ref: 4161.

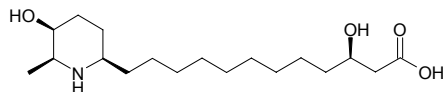
**14993 Morusimic acid E**

(3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-hydroxymethyl-piperidin-1-yl]-dodecanoic acid-3-*O*- β -*D*-glucopyranoside $C_{24}H_{45}NO_{10}$ (507.63). Colorless powder, $[\alpha]_D = -17.2^\circ$ ($c = 0.61$, H_2O). Pharm: α -Glucosidase inhibitor inactive (control 1-Deoxyojirimucin, $IC_{50} = 0.98$ mmol/L, Fagoming, $IC_{50} = 15$ mmol/L). Source: SANG SHI *Morus alba*. Ref: 4161.

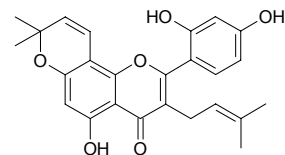


14994 Morusinic acid F

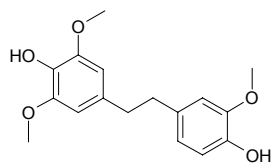
(3*R*)-3-Hydroxy-12-[(1*R*,4*S*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid C₁₈H₃₅NO₄ (329.48). Colorless powder, [α]_D = +6.4° (*c* = 0.28, H₂O). **Pharm:** α-Glucosidase inhibitor inactive (control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). **Source:** SANG SHI *Morus alba*. **Ref:** 4161.

**14995 Morusin**

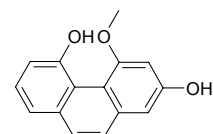
Mulberrochromene [62596-29-6] C₂₅H₂₄O₆ (420.47). Yellowish rhombic crystals (hexane–diethyl ether), mp 214–216°C; yellow crystals (hexane–dichloromethane), mp 168–169°C; mp 232–235°C. **Pharm:** Antiallergic; anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (hmn lymphocyte, IC₅₀ = 8.18μg/mL); anti-HIV (*in vitro* hmn HIV, EC₅₀ = 2.91μg/mL); Na⁺, K⁺-ATP inhibitor; arachidonic acid oxidase inhibitor (mammal, IC₅₀ = 1.6–3.4μmol/L); cytotoxic (brine shrimp *Artemia salina* assay, LC₅₀ = 67.8μg/mL)^[3460]. **Source:** MENG SANG *Morus mongolica* (root cortex: yield = 0.00055%semi-dw)^[3034], SANG BAI PI *Morus alba*, SANG YE *Morus alba*, SANG ZHI *Morus alba*, *Artocarpus fretessi* (bark). **Ref:** 6, 900, 1521, 3034, 3460, 4415.

**14996 Moscatilin**

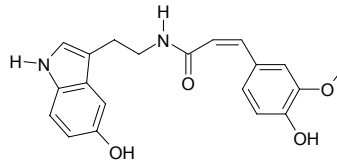
C₁₇H₂₀O₅ (304.35). **Pharm:** Platelet aggregation inhibitor (50μmol/L, InRt = 29%; 100μmol/L, InRt = 36%). **Source:** MI HUA SHI HU *Dendrobium densiflorum* (stem). **Ref:** 5171.

**14997 Moscatin**

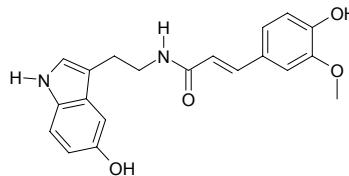
[108335-06-4] C₁₅H₁₂O₃ (240.26). Colorless crystals, mp 163–164°C. **Pharm:** Antioxidant (stronger than BHA); platelet aggregation inhibitor (strongly, due to collagen, arachidonic acid and PAF). **Source:** MEI HUA SHI HU *Dendrobium loddigesii*. **Ref:** 900.

**14998 cis-Moschamine**

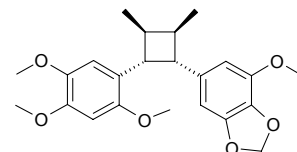
(*Z*)-*N*-(3-Methoxy-4-hydroxycinnamoyl)-5-hydroxytryptamine C₂₀H₂₀N₂O₄ (352.39). Amorphous. **Source:** SHI CHE JU *Centaurea cyanus* (seed). **Ref:** 5174.

**14999 trans-Moschamine**

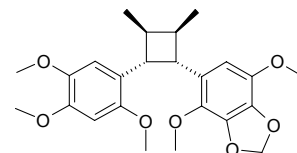
(*E*)-*N*-(3-Methoxy-4-hydroxycinnamoyl)-5-hydroxytryptamine C₂₀H₂₀N₂O₄ (352.39). Amorphous. **Source:** SHI CHE JU *Centaurea cyanus* (seed). **Ref:** 5174.

**15000 Moslolignan A**

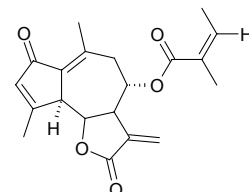
1β*,2β*,3α*,4α*-1,2-dimethyl-3-(3-methoxy-4,5-methylene-dioxyphenyl)-4-(2,4,5-trimethoxyphenyl)-cyclobutane C₂₃H₂₈O₆ (400.48). Colorless gum, [α]_D = -0.15° (*c* = 1.63, MeOH). **Source:** SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*]. **Ref:** 740.

**15001 Moslolignan B**

1β*,2β*,3α*,4α*-1,2-dimethyl-3-(2,5-dimethoxy-3,4-methylenedioxyphenyl)-4-(2,4,5-trimethoxyphenyl)cyclobutane C₂₄H₃₀O₇ (430.5). Colorless gum, [α]_D = -0.43° (*c* = 1.38, MeOH). **Source:** SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*]. **Ref:** 740.

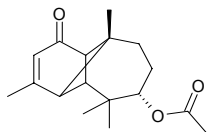
**15002 Moxartenolide**

[182267-25-0] C₂₀H₂₂O₅ (342.40). White powder, [α]_D²⁸ = +119.9° (*c* = 1.1, chloroform). **Pharm:** Vasodilator (rat chest main artery *in vitro*, contraction caused by KCl, arterenol and 5-HT, 30μmol/L, InRt = 24.2%, 27.5% and 19.1%, 100μmol/L, 77.1%, 84.1% and 61.4% respectively); anti-inflammatory (RAW264.7 cells, LPS-induced: NF-κB inhibitor, IC₅₀ = (1.20±0.05)μmol/L, control PTN, IC₅₀ = (3.42±0.08)μmol/L; NO production inhibitor, IC₅₀ = (4.82±0.16)μmol/L, PTN, IC₅₀ = (2.41±0.06)μmol/L, AG, IC₅₀ = (34.18±0.98)μmol/L; TNF-α production inhibitor, IC₅₀ = (8.26±0.26)μmol/L, PTN, IC₅₀ = (2.68±0.11)μmol/L)^[3837]. **Source:** AI YE *Artemisia argyi*, LIN DI HAO *Artemisia sylvatica* (aerial parts). **Ref:** 989, 3837.

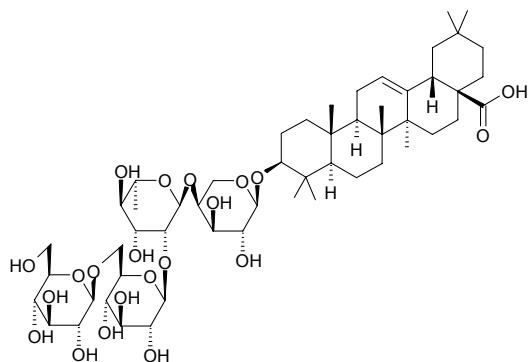


15003 Moxarteneone

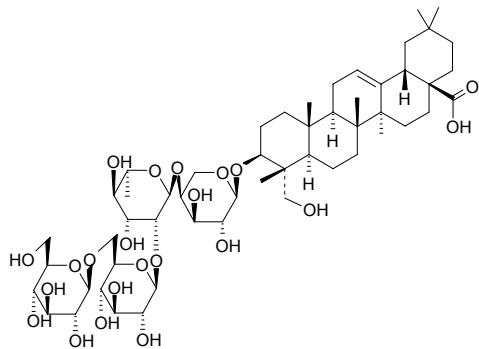
[182162-13-6] C₁₇H₂₄O₃ (276.38). White powder, $[\alpha]_D^{28} = +51.6^\circ$ ($c = 0.4$, methanol). **Pharm:** Vasodilator (rat chest main artery *in vitro*, contraction caused by KCl, arterenol and 5-HT, 100 μmol/L, InRt = 77.1%, 84.1% and 61.4% respectively). **Source:** AI YE *Artemisia argyi*. **Ref:** 989.

**15004 Mubenin A**

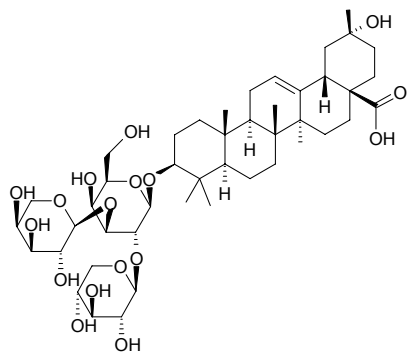
C₅₃H₈₆O₂₁ (1059.26). mp 255–259°C (dec). **Source:** NA TENG GUO *Stauntonia hexaphylla*. **Ref:** 1312.

**15005 Mubenin C**

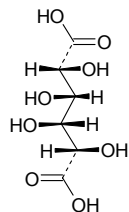
C₅₃H₈₆O₂₂ (1075.26). **Source:** NA TENG GUO *Stauntonia hexaphylla*. **Ref:** 1312.

**15006 Mubenoside A**

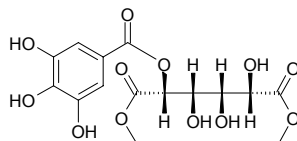
C₄₅H₇₂O₁₇ (885.07). **Source:** NA TENG GUO *Stauntonia hexaphylla*. **Ref:** 1313.

**15007 Mucic acid**

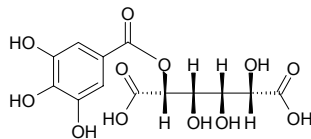
Galactaric acid [526-99-8] C₆H₁₀O₈ (210.14). mp 255°C. **Source:** AN MO LE *Phyllanthus emblica*. **Ref:** 6.

**15008 Mucic acid dimethyl ester 2-O-gallate**

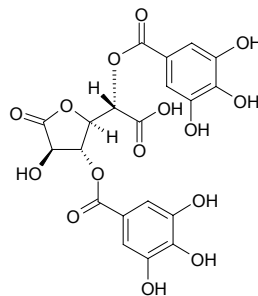
C₁₅H₁₈O₁₂ (390.30). White amorphous powder, $[\alpha]_D^{22} = -51.0^\circ$ ($c = 0.41$, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice). **Ref:** 3521.

**15009 Mucic acid 2-O-gallate**

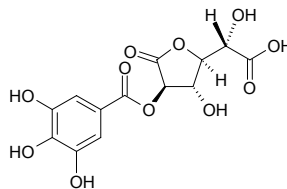
C₁₃H₁₄O₁₂ (362.25). Off-white amorphous powder, $[\alpha]_D^{22} = -25.3^\circ$ ($c = 0.28$, H₂O). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice). **Ref:** 3521.

**15010 Mucic acid 1,4-lactone 3,5-di-O-gallate**

C₂₀H₁₆O₁₅ (496.34). White amorphous powder, $[\alpha]_D^{22} = -96.5^\circ$ ($c = 0.20$, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice). **Ref:** 3521.

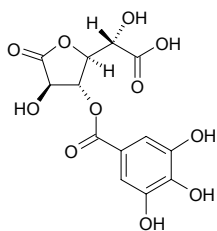
**15011 Mucic acid 1,4-lactone 2-O-gallate**

C₁₃H₁₂O₁₁ (344.23). White amorphous powder, $[\alpha]_D^{22} = -9.5^\circ$ ($c = 0.26$, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice). **Ref:** 3521.

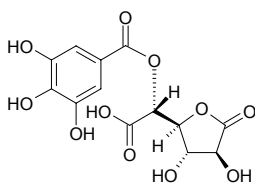


15012 Mucic acid 1,4-lactone 3-O-gallate

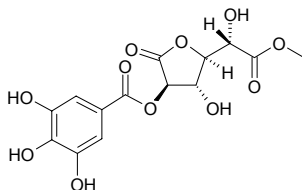
$C_{13}H_{12}O_{11}$ (344.23). White amorphous powder, $[\alpha]_D^{22} = -30.3^\circ$ ($c = 0.16$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15013 Mucic acid 1,4-lactone 5-O-gallate**

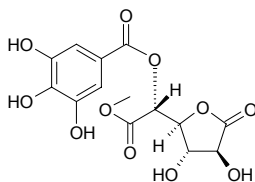
$C_{13}H_{12}O_{11}$ (344.23). White amorphous powder, $[\alpha]_D^{22} = -29.3^\circ$ ($c = 0.33$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15014 Mucic acid 1,4-lactone methyl ester 2-O-gallate**

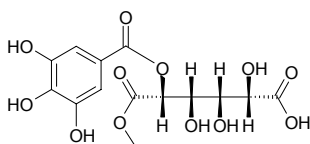
$C_{14}H_{14}O_{11}$ (358.26). White amorphous powder, $[\alpha]_D^{22} = -13.0^\circ$ ($c = 0.19$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15015 Mucic acid 1,4-lactone methyl ester 5-O-gallate**

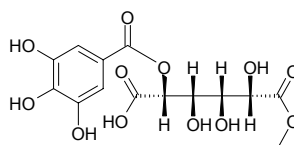
$C_{14}H_{14}O_{11}$ (358.26). White amorphous powder, $[\alpha]_D^{22} = -30.9^\circ$ ($c = 0.58$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15016 Mucic acid 1-methyl ester 2-O-gallate**

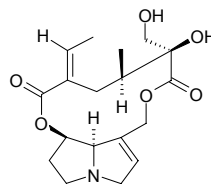
$C_{14}H_{16}O_{12}$ (376.28). White amorphous powder, $[\alpha]_D^{22} = -38.1^\circ$ ($c = 0.22$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15017 Mucic acid 6-methyl ester 2-O-gallate**

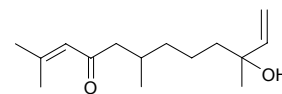
$C_{14}H_{16}O_{12}$ (376.28). White amorphous powder, $[\alpha]_D^{22} = -43.9^\circ$ ($c = 0.28$, MeOH). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3521.

**15018 Mucronatinine**

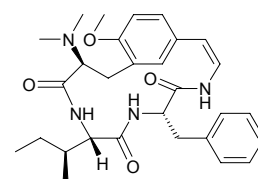
Usaramine $C_{18}H_{25}NO_6$ (351.40). mp 161~163°C. Source: XIANG LING CAO *Crotalaria ferruginea*, ZHU SHI DOU *Crotalaria mucronata*. Ref: 6, 660.

**15019 Mucronatone**

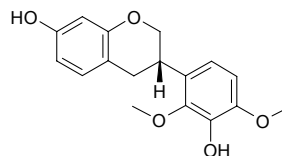
3-Hydroxy-3,7,11-trimethyl-9-oxododeca-1,10-diene $C_{15}H_{26}O_2$ (238.37). Colorless viscous oil, $[\alpha]_D^{27} = -16.66^\circ$ ($c = 0.04$, $CHCl_3$). Source: HONG QIE DONG GUO *Rhizophora mucronata* (fruit). Ref: 4058.

**15020 Mucronine A**

[38840-25-4] $C_{29}H_{38}N_4O_4$ (506.65). Pharm: Antifungal. Source: JIAN YE ZAO *Zizyphus mucronata*, AI SAI E BI YA ZAO *Zizyphus abyssinica*. Ref: 658.

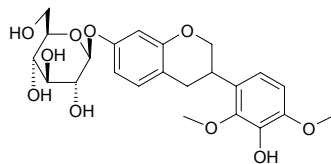
**15021 Mucronulatol**

$C_{17}H_{18}O_5$ (302.33). Pharm: Antifungal. Source: YI BIAN HUANG TAN *Dalbergia variabilis*. Ref: 658.

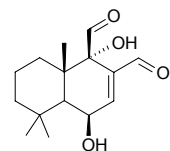


15022 3S(-)-Mucronulatol-7-D-glucopyranoside

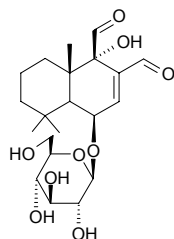
$C_{23}H_{28}O_{10}$ (464.47). White acicular crystals, mp 167~169°C. Source: MENG GU HUANG QI *Astragalus mongholicus*. Ref: 167.

**15023 Mukaadial**

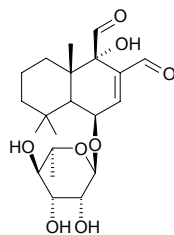
$C_{15}H_{22}O_4$ (266.34). Needle-like crystals (*n*-hexane- CH_2Cl_2), mp 245~246°C, $[\alpha]_D^{25} = -25^\circ$ ($c = 1.0$, MeOH). Source: *Warburgia stuhlmannii* (leaf). Ref: 3398.

**15024 Mukaadial 6-O-β-D-glucopyranoside**

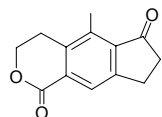
$C_{21}H_{32}O_9$ (428.48). Colorless crystals, mp 180~183°C. Source: *Warburgia stuhlmannii* (leaf). Ref: 3398.

**15025 Mukaadial 6-O-α-L-rhamnopyranoside**

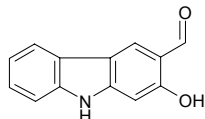
$C_{21}H_{32}O_8$ (412.48). Colorless crystals, mp>250°C. Source: *Warburgia stuhlmannii* (leaf). Ref: 3398.

**15026 Mukagolactone**

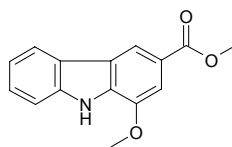
$C_{13}H_{12}O_3$ (216.24). Source: WEI YE XI ZI JUE *Monachosorum flagellare*, XI ZI JUE *Monachosorum henryi*. Ref: 1505.

**15027 Mukonal**

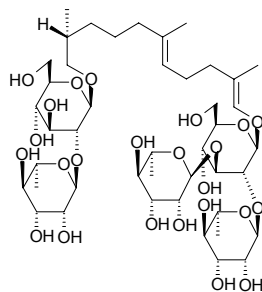
2-Hydroxy-3-formylcarbazole [20323-67-5] $C_{13}H_9NO_2$ (211.22). Pharm: Antibacterial (*Mycobacterium tuberculosis*, MIC = 200μg/mL, control Isoniazide, MIC = 0.040~0.090μg/mL, kanamycin sulfate, MIC = 2.0~5.0μg/mL)^[5367]; antifungal (*Candida albicans*, IC₅₀ = 29.3μg/mL; control Amphotericin, IC₅₀ = 0.01μg/mL)^[5367]. Source: SHAN HUANG PI *Clausena excavata*. Ref: 703, 5367.

**15028 Mukonine**

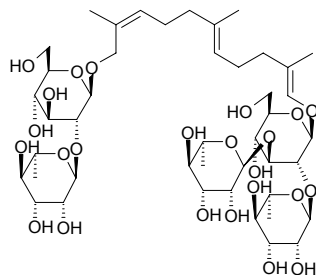
[23523-94-6] $C_{15}H_{13}NO_3$ (255.28). Source: SHAN HUANG PI *Clausena excavata*. Ref: 703.

**15029 Mukurozioside Ia**

$C_{44}H_{76}O_{24}$ (989.08). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1448.

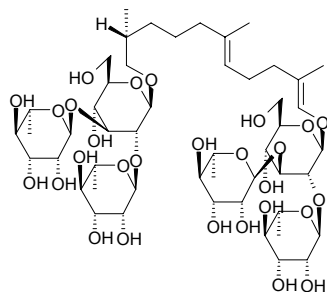
**15030 Mukurozioside Ib**

$C_{44}H_{74}O_{24}$ (987.07). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1448.

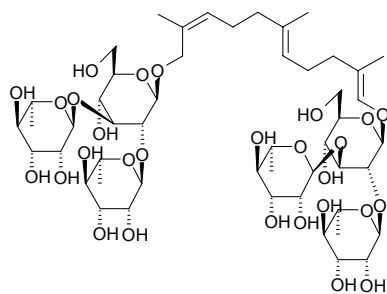


15031 Mukurozioside II_a

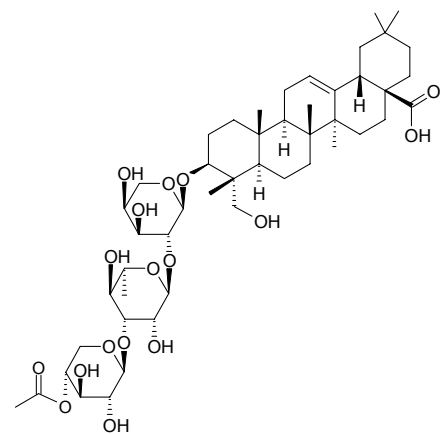
$C_{50}H_{86}O_{28}$ (1135.23). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1448.

**15032 Mukurozioside II_b**

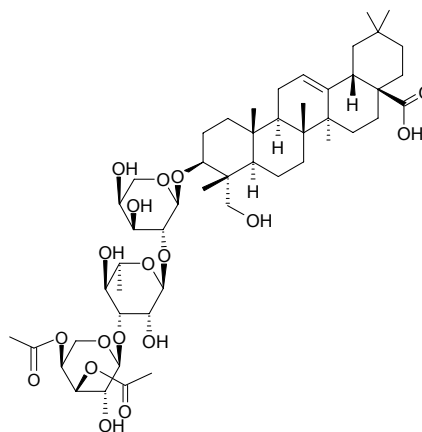
$C_{50}H_{84}O_{28}$ (1133.21). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1448.

**15033 Mukuroziosaponin E₁**

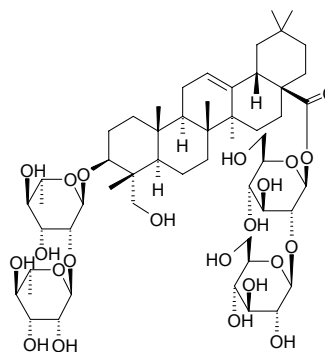
$C_{48}H_{76}O_{17}$ (925.13). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1449.

**15034 Mukuroziosaponin G**

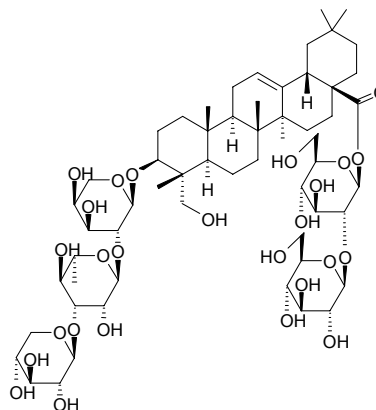
$C_{50}H_{78}O_{18}$ (967.17). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1449.

**15035 Mukuroziosaponin X**

$C_{53}H_{86}O_{22}$ (1075.26). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1449.

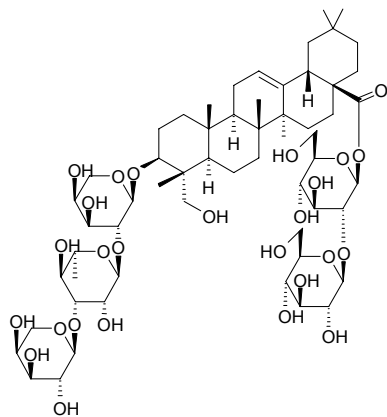
**15036 Mukuroziosaponin Y₁**

$C_{58}H_{94}O_{26}$ (1207.38). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1449.

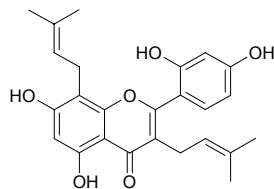


15037 Mukurozisonin Y₂

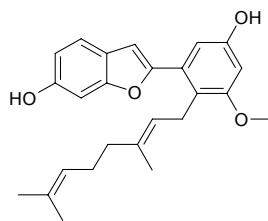
C₅₈H₉₄O₂₆ (1207.38). Source: WU HUAN ZI *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 1449.

**15038 Mulberrin**

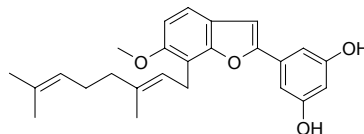
Kuwanon C [62949-79-5] C₂₅H₂₆O₆ (422.48). mp 153–156°C. Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 38 μmol/L); anti-inflammatory (inhibits metabolism of arachidonic acid); Na⁺,K⁺-ATP inhibitor (used in treatment of heart failure and auricular arrhythmia); aldose reductase inhibitor (100 μmol/L InRt = 77.3%); anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (brine shrimp *Artemia salina* assay, LC₅₀ = 77.4 μg/mL)^[3460]. Source: AO DA LI YA SANG *Morus australis*, MENG SANG *Morus mongolica* (root cortex: yield = 0.00055%semi-dw), SANG ZHI *Morus alba*, SANG BAI PI *Morus alba*, *Artocarpus fretessi* (tree bark). Ref: 6, 660, 1657, 1658, 1659, 1660, 3034, 3460, 4415.

**15039 Mulberrofuran A**

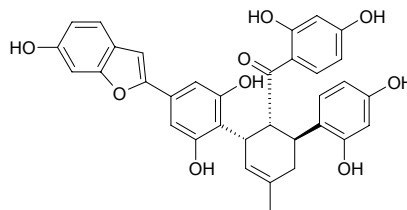
C₂₅H₂₈O₄ (392.50). Colorless lamellar crystals, mp 100–103°C. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 6.25 μg/mL; *Streptococcus faecalis*, MIC = 3.12 μg/mL; *Bacillus subtilis*, MIC = 3.12 μg/mL; *Bacillus mycoides*, MIC = 1.56 μg/mL; gram-positive bacteria). Source: SANG BAI PI *Morus alba*, SANG YE *Morus alba*. Ref: 661, 5501.

**15040 Mulberrofuran B**

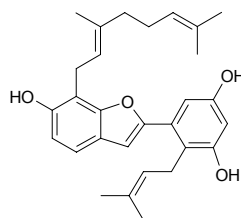
[79295-49-1] C₂₅H₂₈O₄ (392.50). Pharm: Cytotoxic (HSC-2, CC₅₀ = 59 μmol/L, 23 μg/mL; HSG, CC₅₀ = 59 μmol/L, 23 μg/mL; HGF, CC₅₀ = 71 μmol/L, 28 μg/mL). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00009%semi-dw), SANG BAI PI *Morus alba*. Ref: 1427, 3034.

**15041 Mulberrofuran C**

C₃₄H₂₈O₉ (580.60). Pharm: Antihypertensive (animal model). Source: CAN SANG *Morus bombycis*. Ref: 658.

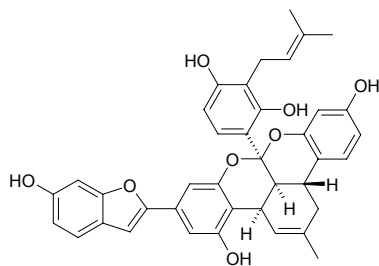
**15042 Mulberrofuran D**

C₂₉H₃₄O₄ (446.59). Pharm: Cytotoxic (HSC-2, CC₅₀ = 83 μmol/L, 37 μg/mL; HSG, CC₅₀ = 74 μmol/L, 33 μg/mL; HGF, CC₅₀ = 81 μmol/L, 36 μg/mL)^[3034]; antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 3.13 μg/mL, control Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecalis* JU1856 (VRE, VanA), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecalis* JU1782 (VRE, VanB), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 3.13 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 3.13 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (= ATCC29213), MIC = 6.25 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13–6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 6.25 μg/mL, Linezolid, mean MIC₈₀ = 0.78 μg/mL)^[5007]. Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.014%semi-dw). Ref: 3034, 5007.

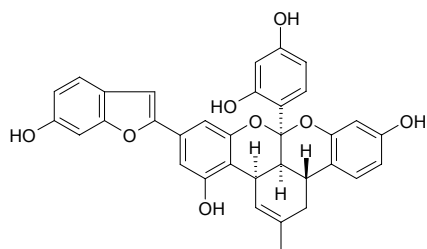


15043 Mulberrofuran F

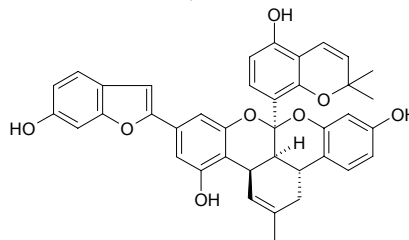
$C_{39}H_{34}O_8$ (630.70). **Pharm:** Antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 6.25 μ g/mL, control Linezolid, MIC = 1.56 μ g/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 6.25 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 6.25 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13–6.25 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 6.25 μ g/mL, Linezolid, mean MIC₈₀ = 0.78 μ g/mL)^[5007]. **Source:** *Morus lhou*. **Ref:** 2513, 5007.

**15044 Mulberrofuran G**

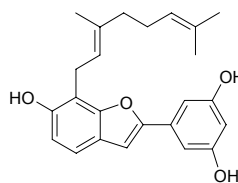
Albanol $C_{34}H_{26}O_8$ (562.58). **Pharm:** Antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 6.25 μ g/mL, control Linezolid, MIC = 1.56 μ g/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 3.13 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 3.13 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 6.25 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 6.25 μ g/mL, Linezolid, MIC = 1.56 μ g/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 3.13–6.25 μ g/mL, Linezolid, MIC = 0.78 μ g/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 6.25 μ g/mL, Linezolid, mean MIC₈₀ = 0.78 μ g/mL)^[5007]. **Source:** NAI SANG *Morus macroura*, *Morus lhou*. **Ref:** 2570, 5007.

**15045 Mulberrofuran K**

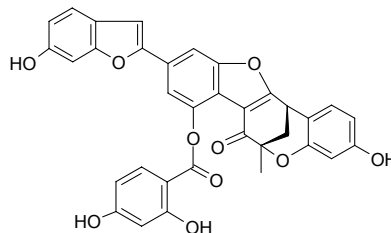
$C_{39}H_{32}O_8$ (628.69). **Source:** NAI SANG *Morus macroura*, SANG BAI PI *Morus alba*. **Ref:** 1428, 2570.

**15046 Mulberrofuran L**

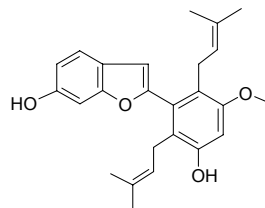
$C_{24}H_{26}O_4$ (378.47). **Pharm:** Cytotoxic (HSC-2, CC₅₀ = 190 μ mol/L, 70 μ g/mL; HSG, CC₅₀ = 160 μ mol/L, 61 μ g/mL; HGF, CC₅₀ = 190 μ mol/L, 71 μ g/mL). **Source:** MENG SANG *Morus mongolica* (root cortex: yield = 0.00045%semi-dw). **Ref:** 3034.

**15047 Mulberrofuran M**

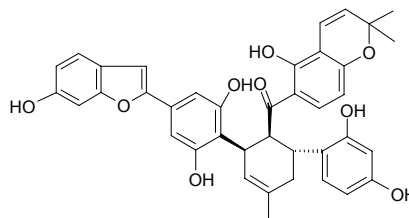
[101365-03-1] $C_{34}H_{22}O_{10}$ (590.55). **Source:** SANG BAI PI *Morus alba*. **Ref:** 1429.

**15048 Mulberrofuran N**

[101899-56-3] $C_{25}H_{28}O_4$ (392.50). **Source:** SANG BAI PI *Morus alba*. **Ref:** 1428.

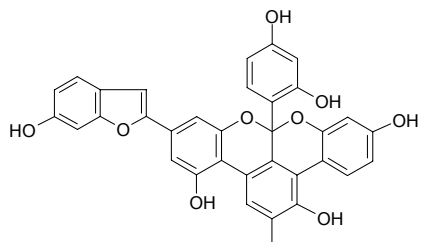
**15049 Mulberrofuran O**

[94617-38-6] $C_{39}H_{34}O_9$ (646.70). **Source:** SANG BAI PI *Morus alba*. **Ref:** 1428.

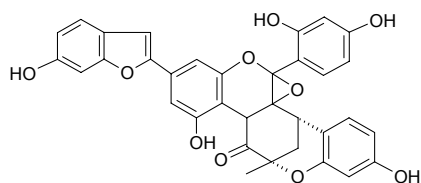


15050 Mulberrofuran P

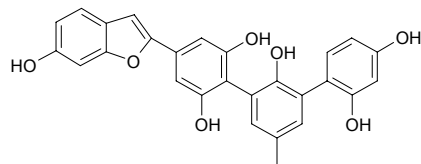
[101365-02-0] C₃₄H₂₂O₉ (574.55). Source: SANG BAI PI *Morus alba*. Ref: 1430.

**15051 Mulberrofuran Q**

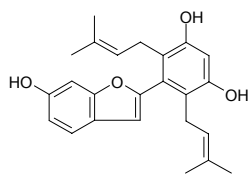
[101385-35-1] C₃₄H₂₄O₁₀ (592.56). Source: SANG BAI PI *Morus alba*. Ref: 1431.

**15052 Mulberrofuran R**

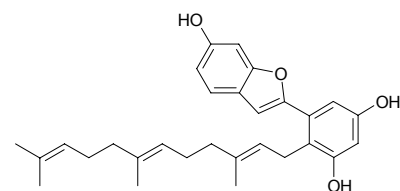
C₂₇H₂₀O₇ (456.46). Source: *Morus thou*. Ref: 2513.

**15053 Mulberrofuran V**

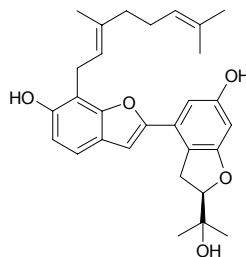
C₂₄H₂₆O₄ (378.47). Source: HUA SANG *Morus cathayana* (root cortex). Ref: 3034.

**15054 Mulberrofuran W**

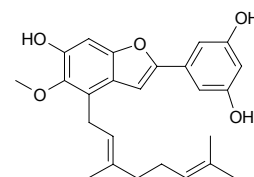
C₂₉H₃₄O₄ (446.59). Pale yellow amorphous solid. Pharm: Cytotoxic (HSC-2, CC₅₀ = 70 μmol/L, 31 μg/mL; HSG, CC₅₀ = 70 μmol/L, 31 μg/mL; HGF, CC₅₀ = 90 μmol/L, 40 μg/mL). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00041%semi-dw). Ref: 3034.

**15055 Mulberrofuran X**

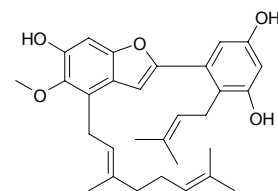
C₂₉H₃₄O₅ (462.59). Pale yellow amorphous solid, [α]_D²⁰ = -18° (c = 0.1, MeOH). Pharm: Cytotoxic (HSC-2, CC₅₀ = 290 μmol/L, 135 μg/mL; HSG, CC₅₀ = 260 μmol/L, 120 μg/mL; HGF, CC₅₀ = 350 μmol/L, 162 μg/mL). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00027%semi-dw). Ref: 3034.

**15056 Mulberrofuran Y**

C₂₅H₂₈O₅ (408.5). Pale yellow amorphous solid. Pharm: Cytotoxic (HSC-2, CC₅₀ = 110 μmol/L, 46 μg/mL; HSG, CC₅₀ = 140 μmol/L, 55 μg/mL; HGF, CC₅₀ = 190 μmol/L, 78 μg/mL)^[3034]; antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 6.25 μg/mL, control Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 6.25 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 6.25 μg/mL, Linezolid, MIC = 1.56 μg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 6.25 μg/mL, Linezolid, MIC = 0.78 μg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean MIC₈₀ = 6.25 μg/mL, Linezolid, mean MIC₈₀ = 0.78 μg/mL)^[5007]. Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.0036%semi-dw). Ref: 3034, 5007.

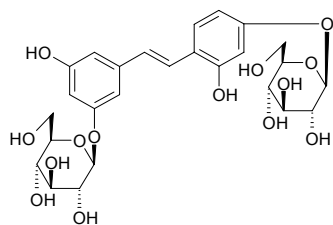
**15057 Mulberrofuran Z**

C₃₀H₃₆O₅ (476.62). Pale yellow amorphous solid. Pharm: Cytotoxic (HSC-2, CC₅₀ = 190 μmol/L, 89 μg/mL). Source: MENG SANG *Morus mongolica* (root cortex: yield = 0.00023%semi-dw). Ref: 3034.

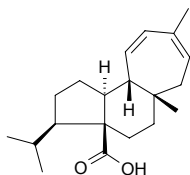


15058 Mulberroside A

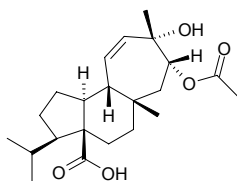
$C_{26}H_{32}O_{14}$ (568.54). Source: WEI JING BAI HE *Schoenocaulon officinale* (rhizome), *Morus lhou*. Ref: 2513, 4210.

**15059 Mulin-11,13-dien-20-oic acid**

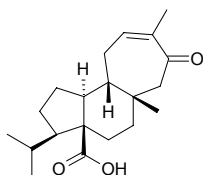
$C_{20}H_{30}O_2$ (302.46). Source: *Azorella yareta* (aerial parts). Ref: 5125.

**15060 Mulin-11-ene-13 α ,14 α -dihydroxy-20-oic acid**

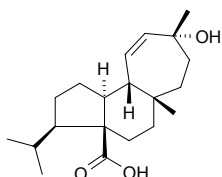
$C_{22}H_{34}O_5$ (378.51). Amber oil, $[\alpha]_D^{20} = -82.4^\circ$ ($c = 0.26$, Me_2CO). Source: DUO CI LUO CAO *Mulinum spinosum*. Ref: 3417.

**15061 Mulin-12-ene-14-one-20-oic acid**

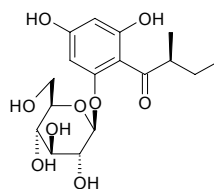
$C_{20}H_{30}O_3$ (318.46). White solid, mp 218–220°C, $[\alpha]_D^{20} = -46.1^\circ$ ($c = 0.36$, Me_2CO). Source: DUO CI LUO CAO *Mulinum spinosum*. Ref: 3417.

**15062 Mulinolic acid**

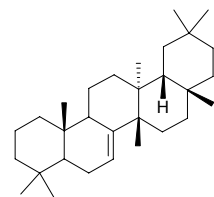
13-Hydroxymulin-11-en-20-oic acid $C_{20}H_{32}O_3$ (320.48). Pharm: Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, intraperitoneal 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 25%; control Chloroquine, $IC_{50} = 2.5mg/(kg·d)$)^[3815]. Source: MI XIAO YING QIN *Azorella compacta* (aerial parts), *Azorella yareta* (aerial parts). Ref: 3815, 5125.

**15063 Multifidol glucoside**

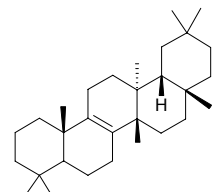
2-(2-Methylbutyryl)-phloroglucinol 1-*O*- β -D-glucopyranoside $C_{17}H_{24}O_9$ (372.38). Source: YOU GAN YE *Phyllanthus emblica* (leaf and branch). Ref: 4205.

**15064 Multiflor-7-ene**

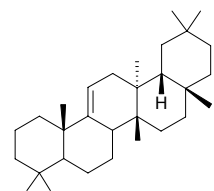
D: *C*-Friedolean-7-ene [72247-03-1] $C_{30}H_{50}$ (410.73). mp 146–147°C. Source: SHUI LONG GU *Polypodium niponicum*, *Polypodium* spp. Ref: 1414, 4048.

**15065 Multiflor-8-ene**

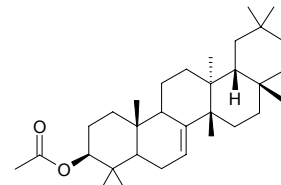
[65343-59-9] $C_{30}H_{50}$ (410.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

**15066 Multiflor-9(11)-ene**

[88206-86-4] $C_{30}H_{50}$ (410.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

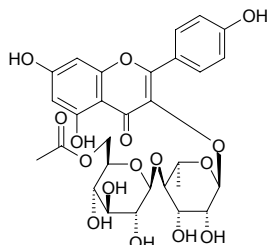
**15067 Multiflor-7-ene-3 β -yl acetate**

$C_{32}H_{52}O_2$ (468.77). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

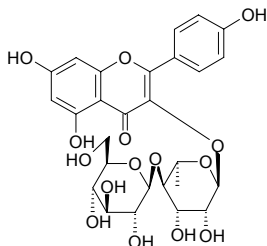


15068 Multiflorin A

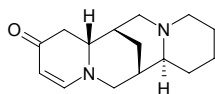
Prunuside A $C_{29}H_{32}O_{16}$ (636.57). **Pharm:** Laxative (mus, $ED_{50} = 30\text{mg/kg}$, a large intestine laxative agent similar to sennoside A). **Source:** FENG WEI PA SHAN HU *Arthromeris mairei* [Syn. *Polypodium mairei*], QIANG WEI GEN *Rosa multiflora*, TAO *Prunus persica*, YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*] (ripe seed: content = 0.29%^[5501]). **Ref:** 533, 660, 5501.

**15069 Multiflorin B**

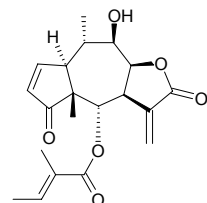
Prunuside B $C_{27}H_{30}O_{15}$ (594.53). Yellow powder, mp 188–189°C (water-ethanol), $[\alpha]_D^{30} = -38^\circ$ (pyridine); mp 190–200°C, 205–210°C, $[\alpha]_D^{16} = -92.7^\circ$ ($c = 0.63$, methanol). **Pharm:** Laxative (mus, $ED_{50} = 222\text{mg/kg}$). **Source:** CHANG GENG YU LI REN *Prunus japonica* var. *nakaii*, MU MIAN HUA *Bombax malabaricum* [Syn. *Gossampinus malabarica*], OU LI REN *Prunus humilis* [Syn. *Cerasus humilis*], QIANG WEI GEN *Rosa multiflora*, TAO *Prunus persica*, TAO HUA *Prunus persica*, YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*] (ripe seed: content = 0.70%^[5501]). **Ref:** 661, 1444, 5501.

**15070 Multiflorine**

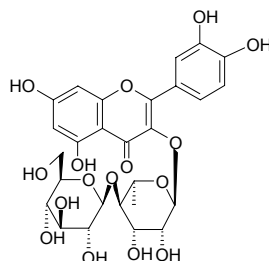
[529-80-6] $C_{15}H_{22}N_2O$ (246.36). **Pharm:** CNS depressant. **Source:** BAI YU SHAN DOU *Lupinus albus*. **Ref:** 658.

**15071 Multigilin**

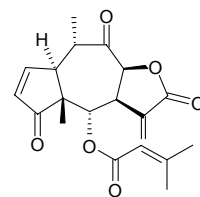
[64937-25-3] $C_{20}H_{24}O_6$ (360.41). Colorless crystals (acetone–heptane), mp 226–230°C (dec). **Pharm:** Antineoplastic (mus P_{388} , 12.2mg/kg, biotic prolonged rate = 64%). **Source:** BAI LAI SHI JU *Baileya multiradiata*. **Ref:** 5, 661.

**15072 Multinoside A**

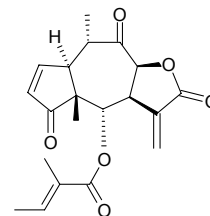
[59262-54-3] $C_{27}H_{30}O_{16}$ (610.53). **Source:** CHANG GENG YU LI REN *Prunus japonica* var. *nakaii*, OU LI REN *Prunus humilis* [Syn. *Cerasus humilis*], YU LI REN *Prunus japonica* [Syn. *Cerasus japonica*]. **Ref:** 1444.

**15073 Multiradiatin**

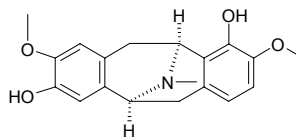
[58262-52-5] $C_{20}H_{22}O_6$ (358.39). mp 226–230°C (dec). **Pharm:** Antineoplastic (mus P_{388} *in vitro*, $ED_{50} = 0.02\mu\text{g/mL}$, KB, EC = 0.12 $\mu\text{g/mL}$, L_{1210} , EC = 0.028 $\mu\text{g/mL}$). **Source:** BAI LAI SHI JU *Baileya multiradiata*. **Ref:** 5, 658.

**15074 Multisatin**

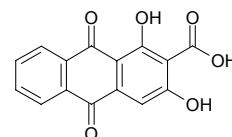
[64937-26-4] $C_{20}H_{22}O_6$ (358.39). mp 257–260°C. **Pharm:** Antineoplastic (mus P_{388} *in vitro*, $ED_{50} = 0.37\mu\text{g/mL}$, *in vivo* 32mg/kg, biotic prolonged rate = 31%). **Source:** BAI LAI SHI JU *Baileya multiradiata*. **Ref:** 5, 658, 1521.

**15075 (–)-Munitagine**

$C_{19}H_{21}NO_4$ (327.38). **Source:** HOU KE GUI *Cryptocarya chinensis* (leaf). **Ref:** 4129.

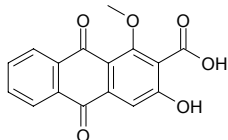
**15076 Munjistin**

[478-06-8] $C_{15}H_8O_6$ (284.23). mp 229–230°C. **Source:** QIAN CAO GEN *Rubia cordifolia*, YANG JIAO TENG *Morinda umbellata*. **Ref:** 6.

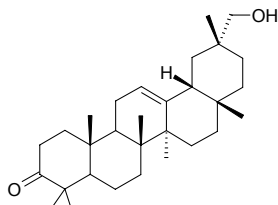


15077 Munjistin methyl ether

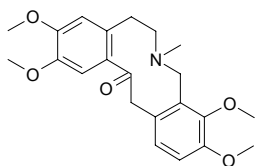
$C_{16}H_{10}O_6$ (298.25). Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem), MAO XIAN ZHU JU TAI *Rhynchosychem vestitum*. Ref: 1521, 4369.

**15078 Mupinensione**

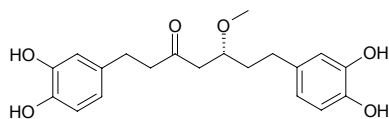
$C_{30}H_{48}O_2$ (440.72). Colorless acicular crystals (methanol), mp 230~231°C. Source: BAO XING WEI MAO *Euonymus mupinensis*. Ref: 278.

**15079 Muramine**

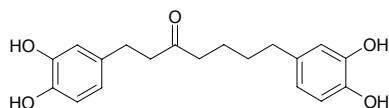
Cryptopalmatine [2292-20-8] $C_{22}H_{27}NO_5$ (385.46). Source: HEI SHUI YE YING SU *Papaver nudicaule* ssp. *amurense*. Ref: 1321.

**15080 Muricarpone A**

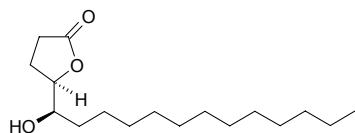
$C_{20}H_{24}O_6$ (360.41). Syrup, $[\alpha]_D^{25} = -7.1^\circ$ ($c = 0.88$, MeOH). Source: YOU GUO DOU KOU *Amomum muricarpum* (rhizome: yield = 0.001%dw). Ref: 927.

**15081 Muricarpone B**

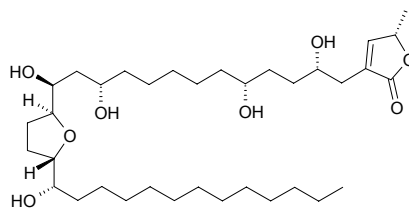
$C_{19}H_{22}O_5$ (330.38). Syrup. Source: YOU GUO DOU KOU *Amomum muricarpum* (rhizome: yield = 0.036%dw). Ref: 927.

**15082 Muricatacin**

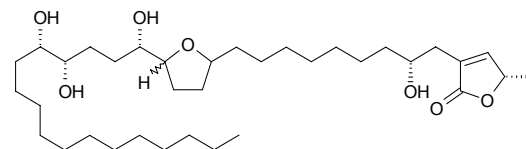
[134698-86-5] $C_{17}H_{32}O_3$ (284.44). mp 50°C, $[\alpha]_D^{20} = -16.1^\circ$. Pharm: Cytotoxic (A549, $ED_{50} = 23.3\mu\text{g/mL}$, MCF7, $ED_{50} = 9.8\mu\text{g/mL}$, HT29, $ED_{50} = 14.0\mu\text{g/mL}$). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 1549.

**15083 Muricatacin**

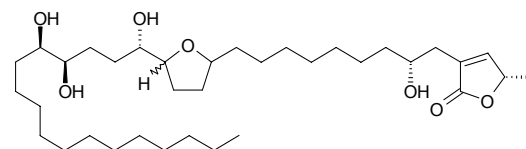
[179308-46-4] $C_{35}H_{64}O_8$ (612.90). White crystals, mp 105~106°C, $[\alpha]_D^{20} = +17.7^\circ$ ($c = 0.4$, methanol). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 385.

**15084 Muricatetrocin A**

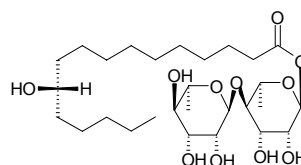
[153125-14-5] $C_{35}H_{64}O_7$ (596.90). mp 102°C, $[\alpha]_D^{25} = 10.3^\circ$ ($c = 0.15$, chloroform); mixed with muricatetrocin B, colorless oil, $[\alpha]_D^{25} = +22.2^\circ$ ($c = 0.25$, CHCl_3). Pharm: Cytotoxic (A549, $ED_{50} = 0.14\mu\text{g/mL}$, MCF7, $ED_{50} = 1.03\mu\text{g/mL}$, HT29, $ED_{50} \leq 10^{-8}\mu\text{g/mL}$, BST, $LC_{50} = 1.4\mu\text{g/mL}$, PD experiment, tumor inhibition rate = 76%); cytotoxic (*in vitro*, mixed with Muricatetrocin B, HepG2, $IC_{50} = 0.0495\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.00483\mu\text{g/mL}$; control Adriamycin, HepG2, $IC_{50} = 0.241\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.45\mu\text{g/mL}$)^[3067]. Source: CI GUO FAN LI ZHI *Annona muricata*, CI GUO FAN LI ZHI *Annona muricata* (seed)^[3067]. Ref: 1550, 3067.

**15085 Muricatetrocin B**

[153220-48-5] $C_{35}H_{64}O_7$ (596.90). mp 89~90°C, $[\alpha]_D^{25} = 15.0^\circ$ ($c = 0.43$, chloroform); mixed with muricatetrocin A, colorless oil, $[\alpha]_D^{25} = +22.2^\circ$ ($c = 0.25$, CHCl_3). Pharm: Cytotoxic (A549, $ED_{50} = 0.49\mu\text{g/mL}$, MCF7, $ED_{50} = 1.86\mu\text{g/mL}$, HT29, $ED_{50} = 0.028\text{ng/mL}$, BST, $LC_{50} = 1.8\mu\text{g/mL}$, PD experiment, tumor inhibition rate = 53%); cytotoxic (*in vitro*, mixed with Muricatetrocin A, HepG2, $IC_{50} = 0.0495\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.00483\mu\text{g/mL}$; control Adriamycin, HepG2, $IC_{50} = 0.241\mu\text{g/mL}$, Hep2,2,15, $IC_{50} = 0.45\mu\text{g/mL}$)^[3067]. Source: CI GUO FAN LI ZHI *Annona muricata*, CI GUO FAN LI ZHI *Annona muricata* (seed)^[3067]. Ref: 1550, 3067.

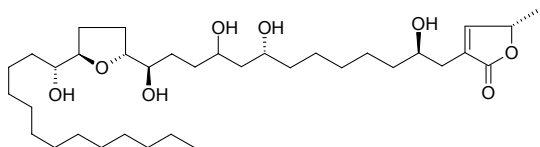
**15086 Muricatin B**

[68124-11-8] $C_{28}H_{52}O_{11}$ (564.72). Source: WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*]. Ref: 6.

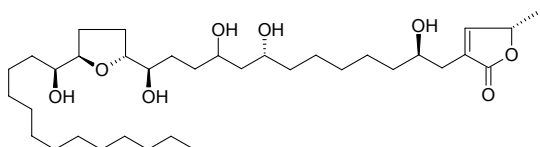


15087 Muricatocin A

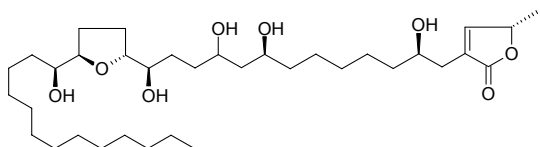
[167172-79-4] C₃₅H₆₄O₈ (612.90). White amorphous powder, $[\alpha]_D^{22} = +21.8^\circ$ ($c = 0.001$, ethanol). **Pharm:** Cytotoxic (hmn A549, ED₅₀ = 0.0755 μg/mL, MCF7, ED₅₀ = 0.123 μg/mL, HT29, ED₅₀ = 1.56 μg/mL, BST, LC₅₀ = 0.699 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1048.

**15088 Muricatocin B**

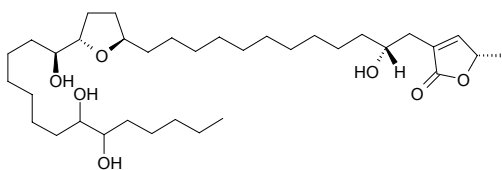
[167355-38-6] C₃₅H₆₄O₈ (612.90). White amorphous powder, $[\alpha]_D^{22} = +62.5^\circ$ ($c = 0.001$, ethanol). **Pharm:** Cytotoxic (hmn A549, ED₅₀ = 0.334 μg/mL, MCF7, ED₅₀ = 0.103 μg/mL, HT29, ED₅₀ = 1.66 μg/mL, BST LC₅₀ = 0.557 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1048.

**15089 Muricatocin C**

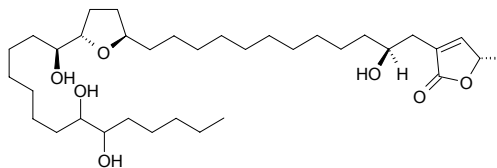
[167355-40-0] C₃₅H₆₄O₈ (612.90). White amorphous powder, $[\alpha]_D^{22} = +32.5^\circ$ ($c = 0.001$, ethanol). **Pharm:** Cytotoxic (hmn A549, ED₅₀ = 0.0909 μg/mL, MCF7, ED₅₀ = 0.0645 μg/mL, HT29, ED₅₀ = 1.48 μg/mL, BST, LC₅₀ = 0.604 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 1049.

**15090 Muricin A**

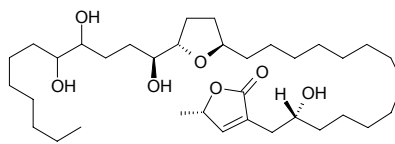
C₃₃H₆₄O₇ (596.9). White waxy solid, $[\alpha]_D^{25} = +7.2^\circ$ ($c = 0.25$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 5.04 μg/mL, Hep2,2,15, IC₅₀ = 0.00513 μg/mL; control Adriamycin, HepG2, IC₅₀ = 0.241 μg/mL, Hep2,2,15, IC₅₀ = 0.45 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15091 Muricin B**

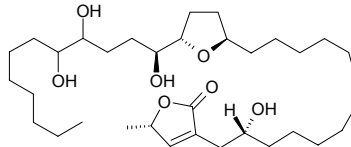
C₃₃H₆₄O₇ (596.9). White waxy solid, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.11$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 1.78 μg/mL, Hep2,2,15, IC₅₀ = 0.00429 μg/mL; control Adriamycin, HepG2, IC₅₀ = 0.241 μg/mL, Hep2,2,15, IC₅₀ = 0.45 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15092 Muricin C**

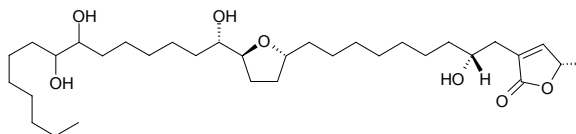
C₃₃H₆₄O₇ (596.9). White waxy solid, $[\alpha]_D^{25} = +86.0^\circ$ ($c = 0.15$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 0.499 μg/mL, Hep2,2,15, IC₅₀ = 0.00387 μg/mL; control Adriamycin, HepG2, IC₅₀ = 0.241 μg/mL, Hep2,2,15, IC₅₀ = 0.45 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15093 Muricin D**

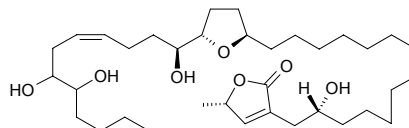
C₃₃H₆₀O₇ (568.84). White waxy solid, $[\alpha]_D^{25} = +77.6^\circ$ ($c = 0.34$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 0.00066 μg/mL, Hep2,2,15, IC₅₀ = 0.048 μg/mL; control Adriamycin, HepG2, IC₅₀ = 0.241 μg/mL, Hep2,2,15, IC₅₀ = 0.45 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15094 Muricin E**

C₃₃H₆₀O₇ (568.84). White waxy solid, $[\alpha]_D^{25} = +91.4^\circ$ ($c = 0.23$, CHCl₃). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15095 Muricin F**

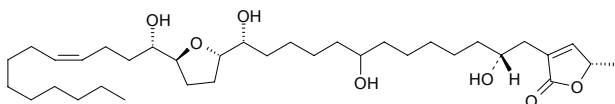
C₃₃H₆₂O₇ (594.88). White waxy solid, $[\alpha]_D^{25} = +48.2^\circ$ ($c = 0.48$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, HepG2, IC₅₀ = 0.0428 μg/mL, Hep2,2,15, IC₅₀ = 0.00386 μg/mL; control Adriamycin, HepG2, IC₅₀ = 0.241 μg/mL, Hep2,2,15, IC₅₀ = 0.45 μg/mL). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.



15096 Muricin G

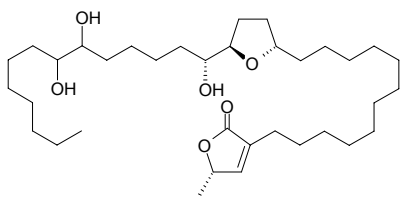
$C_{35}H_{62}O_7$ (594.88). White waxy solid, $[\alpha]_D^{25} = +47.0^\circ$ ($c = 0.63$, $CHCl_3$).

Source: CI GUO FAN LI ZHI *Annona muricata* (seed). **Ref:** 3067.

**15097 Muricin H**

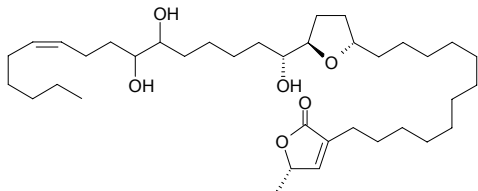
$C_{35}H_{64}O_6$ (580.9). Colorless waxy solid, $[\alpha]_D^{25} = +9.5^\circ$ ($c = 0.76$, $CHCl_3$).

Pharm: Cytotoxic (*in vitro*, HepG2, $IC_{50} = 0.0951\mu g/mL$, control Adriamycin, $IC_{50} = 0.241\mu g/mL$; Hep2,2,15, $IC_{50} = 0.0118\mu g/mL$, control Adriamycin, $IC_{50} = 0.45\mu g/mL$). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.01%dw). **Ref:** 4617.

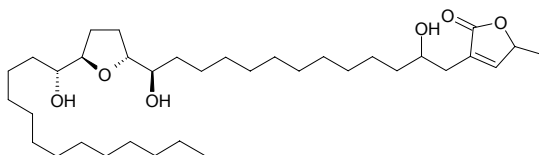
**15098 Muricin I**

$C_{37}H_{66}O_6$ (606.93). White waxy solid, $[\alpha]_D^{25} = +88.0^\circ$ ($c = 0.25$, $CHCl_3$). **Pharm:**

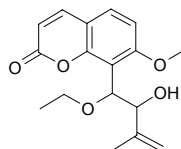
Cytotoxic (*in vitro*, HepG2, $IC_{50} = 0.0509\mu g/mL$, control Adriamycin, $IC_{50} = 0.241\mu g/mL$; Hep2,2,15, $IC_{50} = 0.222\mu g/mL$, control Adriamycin, $IC_{50} = 0.45\mu g/mL$). **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.001%dw). **Ref:** 4617.

**15099 Murisolin**

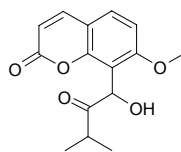
[129683-96-1] $C_{35}H_{64}O_6$ (580.90). mp 62~64°C. **Source:** CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.0008%dw; leaf: yield = 0.0001%dw)^[4617], JIN PING GE NA XIANG *Goniothalamus leiocarpus*, NIU XIN FAN LI ZHI *Annona reticulata*. **Ref:** 420, 432, 4617.

**15100 Murpanicin**

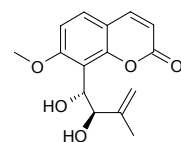
Muraxocin [113349-35-2] $C_{17}H_{20}O_5$ (304.35). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 11, 1335.

**15101 (±)-Murpaniculol**

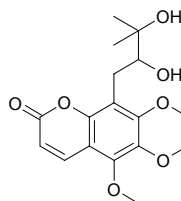
[112458-25-0] $C_{15}H_{16}O_5$ (276.29). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 1336.

**15102 (S)-Murpanidin**

[88546-96-7] $C_{15}H_{16}O_5$ (276.29). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.

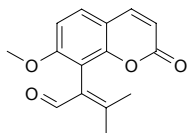
**15103 Murragleinin**

$C_{17}H_{22}O_7$ (338.36). $[\alpha]_D^{24} = -4.7^\circ$ ($c = 0.2$, MeOH). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100 $\mu g/mL$: thrombin = 0.1U/mL, AggRt = (89.3 \pm 2.8)%, $p < 0.05$, control, AggRt = (80.0 \pm 1.1)%; AA = 100 $\mu mol/L$, AggRt = (77.0 \pm 2.6)%, control, AggRt = (77.0 \pm 1.5)%; collagen = 10 $\mu g/mL$, AggRt = (71.3 \pm 2.2)%, $p < 0.05$, control, AggRt = (78.3 \pm 1.3)%; PAF = 1ng/mL, AggRt = (79.0 \pm 3.6)%, control, AggRt = (82.5 \pm 1.5)%). **Source:** QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). **Ref:** 5417.

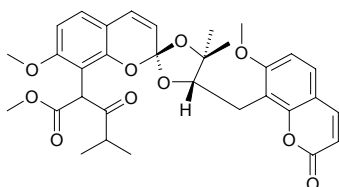


15104 Murralongin

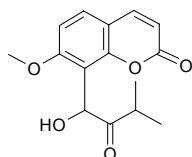
[53011-72-6] C₁₅H₁₄O₄ (258.28). mp 135°C. **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100µg/mL: thrombin = 0.1U/mL, AggRt = (77.3±1.8)%, control, AggRt = (80.0±1.1)%; AA = 100µmol/L, AggRt = (73.0±3.1)%, control, AggRt = (77.0±1.5)%; collagen = 10µg/mL, AggRt = (70.0±0.9)%, p<0.001, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (77.0±2.9)%, control, AggRt = (82.5±1.5)%^[5417]. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf), YAN JIAO CAO *Boemninghausenia albiflora*. **Ref:** 11, 1521, 2495, 5417.

**15105 Murramarin A**

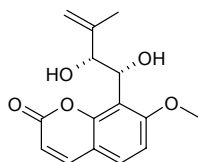
C₃₂H₃₄O₁₀ (578.62). Colorless oil, [α]_D²⁰ = +96° (c = 0.135, MeOH). **Source:** ZHONG HUA JIU LI XIANG *Murraya exotica* (vegetative branches). **Ref:** 4510.

**15106 (+)-Murranganone**

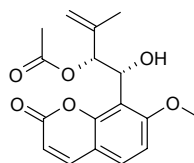
[112789-91-0] C₁₅H₁₆O₅ (276.29). [α]_D²⁰ = +105.8° (c = 0.06, CHCl₃) **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 1272.

**15107 Murrangatin**

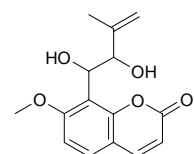
C₁₅H₁₆O₅ (276.29). [α]_D²⁴ = +6.8° (c = 0.7, MeOH). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100µg/mL: thrombin = 0.1U/mL, AggRt = (81.7±1.9)%, control, AggRt = (80.0±1.1)%; AA = 100µmol/L, AggRt = (71.0±1.7)%, control, AggRt = (77.0±1.5)%; collagen = 10µg/mL, AggRt = (69.7±0.03)%, p<0.001, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (80.0±2.4)%, control, AggRt = (82.5±1.5)%). **Source:** QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). **Ref:** 5417.

**15108 Murrangatin acetate**

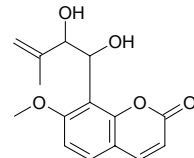
C₁₇H₁₈O₆ (318.33). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 1336.

**15109 erythro-Murrangatin**

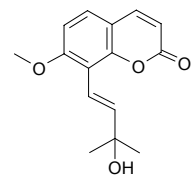
C₁₅H₁₆O₅ (276.29). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 1337.

**15110 threo-Murrangatin**

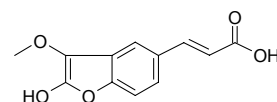
C₁₅H₁₆O₅ (276.29). Needle crystals (Et₂O-CHCl₃), mp 133°C, [α]_D²⁰ = -3° (c = 0.49, CHCl₃). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 1521.

**15111 Murraol**

C₁₅H₁₆O₄ (260.29). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 1272.

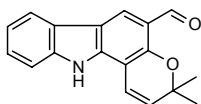
**15112 Murraxonin**

[113270-89-6] C₁₂H₁₀O₅ (234.21). **Source:** XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. **Ref:** 1338.

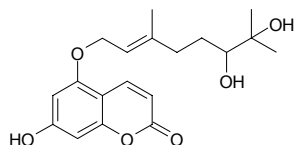


15113 Murrayacine

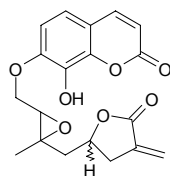
[27300-29-4] C₁₈H₁₅NO₂ (277.33). Source: YIN DU JIU LI XIANG *Murraya koenigii*. Ref: 11.

**15114 Murrayacoumarin A**

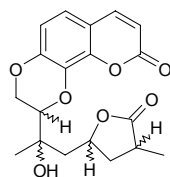
C₁₉H₂₄O₆ (348.40). Colorless oil, $[\alpha]_D^{24} = +7.9^\circ$ ($c = 0.114$, MeOH). Pharm: EBV-EA inhibitor (TPA-induced, IC₅₀ = 230 Mol ratio/32 pmol TPA, control β -Carotene, IC₅₀ = 400 Mol ratio/32 pmol TPA). Source: YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). Ref: 5255.

**15115 Murrayacoumarin B**

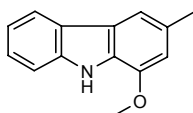
C₁₉H₂₈O₇ (358.35). Colorless oil, $[\alpha]_D^{24} = +64.1^\circ$ ($c = 0.103$, MeOH). Pharm: EBV-EA inhibitor (TPA-induced, IC₅₀ = 465 Mol ratio/32 pmol TPA, control β -Carotene, IC₅₀ = 400 Mol ratio/32 pmol TPA). Source: YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). Ref: 5255.

**15116 Murrayacoumarin C**

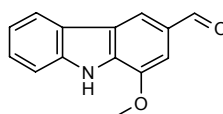
C₁₉H₂₀O₇ (360.37). Colorless oil, $[\alpha]_D^{24} = +79.0^\circ$ ($c = 0.371$, MeOH). Pharm: EBV-EA inhibitor (TPA-induced, IC₅₀ = 442 Mol ratio/32 pmol TPA, control β -Carotene, IC₅₀ = 400 Mol ratio/32 pmol TPA). Source: YUAN DONG JIU LI XIANG *Murraya siamensis* (leaf). Ref: 5255.

**15117 Murrayafoline A**

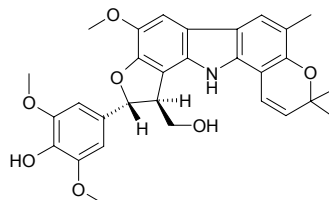
C₁₄H₁₃NO (211.27). Brown oil. Source: DOU YE JIU LI XIANG *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], TAI WAN JIU LI XIANG *Murraya crenulata*, XIA GUO SHAN XIAO JU GEN *Glycosmis stenocarpa*. Ref: 11, 2569.

**15118 Murrayanine**

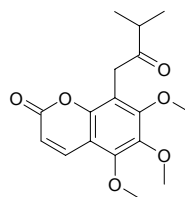
[723-97-7] C₁₄H₁₁NO₂ (225.25). Colorless rhombic crystals, mp 168°C; Silver white plates (EtOAc), mp 155°C. Pharm: Cytotoxic (KB, ED₅₀ = 26µg/mL); platelet aggregation inhibitor (rbt, due to collagen, arachidonic acid and PAF); antibacterial inactive (*Mycobacterium tuberculosis*; control Isoniazide, MIC = 0.040–0.090µg/mL, kanamycin sulfate, MIC = 2.0–5.0µg/mL)^[5367]; antifungal inactive (*Candida albicans*; control Amphotericin, IC₅₀ = 0.01µg/mL)^[5367]. Source: DOU YE JIU LI XIANG *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], SHAN HUANG PI *Clausena excavata*, XIA GUO SHAN XIAO JU GEN *Glycosmis stenocarpa*, YIN DU JIU LI XIANG *Murraya koenigii*, YUAN DONG JIU LI XIANG *Murraya siamensis*. Ref: 11, 658, 2569, 5367.

**15119 Murrayanine II***

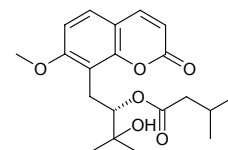
C₃₀H₃₁NO₇ (517.58). Brown powder, $[\alpha]_D^{25} = +8.0^\circ$ ($c = 0.74$, CH₃OH). Source: YIN DU JIU LI XIANG *Murraya koenigii* (aerial parts). Ref: 4681.

**15120 Murrayanone**

C₁₇H₂₀O₆ (320.35). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100µg/mL: thrombin = 0.1U/mL, AggRt = (78.7±1.7)%, control, AggRt = (80.0±1.1)%; AA = 100µmol/L, AggRt = (66.7±7.8)%, $p < 0.001$, control, AggRt = (77.0±1.5)%; collagen = 10µg/mL, AggRt = (71.7±1.2)%, $p < 0.01$, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (75.7±0.1)%, $p < 0.01$, control, AggRt = (82.5±1.5)%). Source: QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). Ref: 5417.

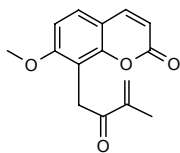
**15121 Murrayatin**

C₂₀H₂₆O₆ (362.43). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 1336.

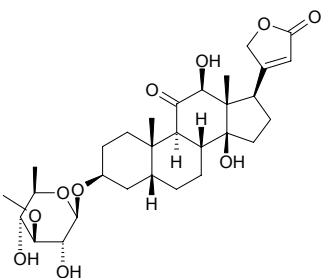


15122 Murrayone

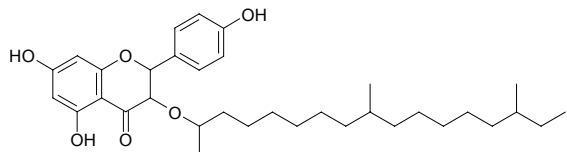
[19668-69-0] C₁₅H₁₄O₄ (258.28). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 11.

**15123 Musaroside**

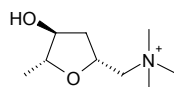
C₃₀H₄₄O₁₀ (564.68). Pharm: Toxin (vertebrate). Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 658.

**15124 Muscanone**

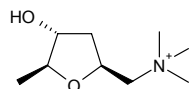
3-O-(1'',8'',14''-Trimethylhexadecanyl)naringenin C₃₄H₅₀O₆ (554.77). Brownish solid, mp 124~126°C. Pharm: Antifungal (*Candida albicans*). Source: A MAN SU DAN MO YAO *Commiphora wightii*. Ref: 2014.

**15125 Muscarine I**

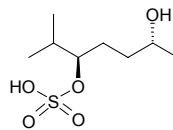
C₉H₂₀NO₂⁺ (174.24). mp 182°C. Source: MA HUA *Cannabis sativa*. Ref: 6.

**15126 Muscarine II**

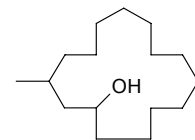
C₉H₂₀NO₂⁺ (174.27). Chloride (C₉H₂₀ClNO₂); thick prismatic crystals (ethanol-acetone), mp 180~181°C, [α]_D²⁵ = +8.1° (c = 3.5, ethanol). Pharm: Cholineoid action; CNS depressant (mus, *in vivo*, potentiates hypnotic effect of barbital); antihypertensive (cat, MED = 0.004μg/kg iodide); LD₅₀ (mus, iv) = 0.23mg/kg. Source: HUO MA REN *Cannabis sativa*. Ref: 661.

**15127 Musclide A₁**

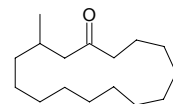
C₈H₁₈O₅S (226.29). Pharm: Enhances action of β-adrenalin. Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 1406.

**15128 Muscol**

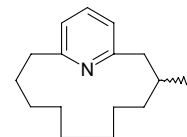
C₁₆H₃₂O (240.43). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2.

**15129 Muscone**

[541-91-3] C₁₆H₃₀O (238.42). Colorless liquid, bp (-) 130°C/0.5mmHg, [α]_D = -13°, insoluble in water, soluble in ethanol.^[5507] Pharm: Bidirectional action to drowsiness (excitation in low dose and inhibition in high dose); coronary vasodilator (increases coronary flow); increases tolerance to anoxia (mus, cardiac muscles, 100mg/kg ip); LD₅₀ (mus, iv) = 152~172mg/kg, (mus, ip) = 270~290mg/kg. Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus* (dried secretion obtained from musk gland of musk deer: content scope = 0.50%~5.00%^[5501], content scope of 9 batch samples = 0.37%~5.30%, mean content = 2.91%^[5508]). Ref: 2, 4, 6, 658, 5501, 5507, 5508.

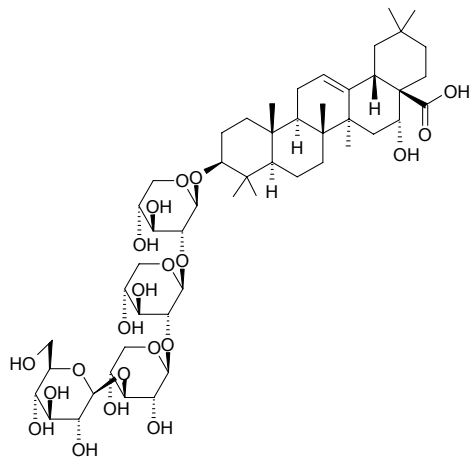
**15130 Muscopyridine**

C₁₆H₂₅N (231.38). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2.

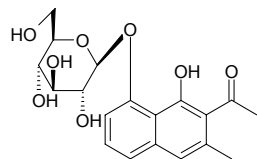


15131 Musennin

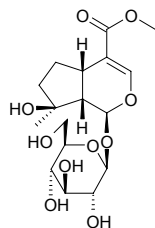
$C_{51}H_{82}O_{21}$ (1031.21). **Pharm:** Anthelmintic. **Source:** QU CHONG HE HUAN *Albizia anthelmintica*. **Ref:** 658.

**15132 Musizin-8-O-β-D-glucoside**

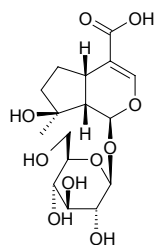
$C_{19}H_{22}O_8$ (378.38). **Source:** DA HUANG *Rheum officinale*. **Ref:** 2.

**15133 Mussaenoside**

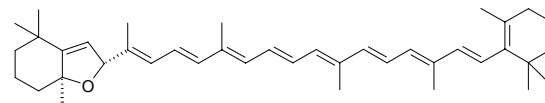
Linearoside $C_{17}H_{26}O_{10}$ (390.39). **Source:** SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.0021%dw). **Ref:** 4665.

**15134 Mussaenosidic acid**

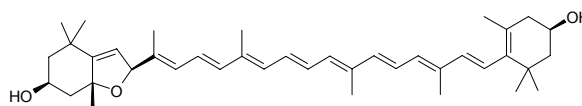
$C_{16}H_{24}O_{10}$ (376.36). $[\alpha]_D^{29} = -62.6^\circ$ ($c = 0.15$, MeOH). **Pharm:** Cytotoxic inactive (Vero cells)^[5456]; COX-2 inhibitor inactive^[5456]. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower), ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448, 5456.

**15135 Mutatochrome**

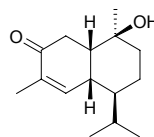
[515-06-6] $C_{40}H_{56}O$ (552.89). **Pharm:** Precursor to biosynthesis of vitamin A. **Source:** FAN MU GUA *Carica papaya*, FAN QIE *Lycopersicon esculentum*, TIAN CHENG *Citrus sinensis*, TONG HAO *Chrysanthemum coronarium*, *Calendula* sp., *Forsythia* sp. **Ref:** 658.

**15136 Mutatoxanthin**

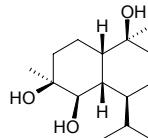
$C_{40}H_{56}O_2$ (568.89). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 1473, 1521.

**15137 Muurolan-3-en-9β-ol-2-one**

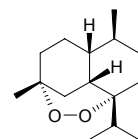
$C_{15}H_{24}O_2$ (236.36). **Source:** HUANG QI II *Engelhardia roxburghiana* (root). **Ref:** 5059.

**15138 Muurolane-4β,5β,10β-triol**

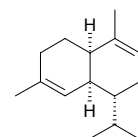
$C_{15}H_{28}O_3$ (256.39). mp 168–170°C, $[\alpha]_D^{27} = -6.4^\circ$ ($c = 0.14$, $CHCl_3$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (root). **Ref:** 4371.

**15139 (+)-Muurolan-4,7-peroxide**

$C_{15}H_{26}O_2$ (238.37). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

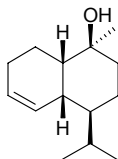
**15140 α-Muurolene**

$C_{15}H_{24}$ (204.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2, 1521.

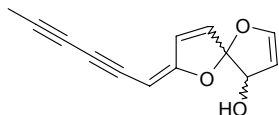


15141 T-Muurolol

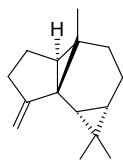
$C_{14}H_{24}O$ (208.35). **Pharm:** Cytotoxic (A549, $ED_{50} = 3.2\mu\text{mol/L}$, $ED_{50} = 14.7\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01\mu\text{mol/L}$, $ED_{50} = 0.02\mu\text{g/mL}$; MCF7, $ED_{50} = 0.6\mu\text{mol/L}$, $ED_{50} = 2.7\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$; HT29, $ED_{50} = 1.8\mu\text{mol/L}$, $ED_{50} = 8.0\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$)^[5088]. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (root,heartwood). **Ref:** 4371, 5088.

**15142 Mycosinol**

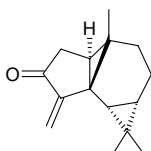
$C_{13}H_{10}O_3$ (214.22). **Pharm:** Antifungal. **Source:** QIAO GUAN JU *Coleostephus myconis*. **Ref:** 658.

**15143 (-)-(1R*,5S*,6R*,7S*,10S*)-Myli-4(15)-ene**

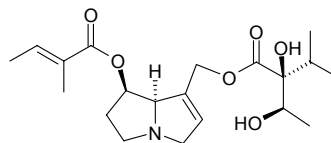
1,1,3a-Trimethyl-6-methylene-1,1a,2,3,3a,3b,4,5,6,6b-decahydrocyclopenta[2,3]cyclopropano[1,2-a]cyclopropano[c]benzene $C_{15}H_{22}$ (202.34). Colorless oil. **Source:** XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). **Ref:** 3840.

**15144 (-)-(1S,5R,6R,7S,10S)-Myli-4(15)-en-3-one**

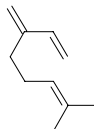
1,1,3a-Trimethyl-6-methylene-5-oxo-1,1a,2,3,3a,3b,4,-5,6,6b-decahydrocyclopenta[2,3]cyclopropano[1,2-a]cyclopropano[c]benzene $C_{15}H_{20}O$ (216.33). Colorless oil. **Source:** XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). **Ref:** 3840.

**15145 Myoscorpine**

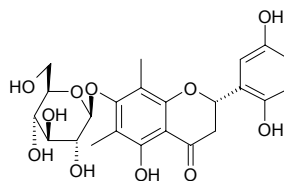
[82535-76-0] $C_{20}H_{31}NO_6$ (381.47). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2193.

**15146 Myrcene**

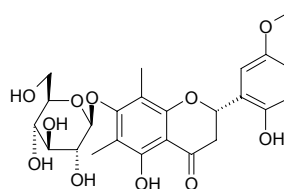
[123-35-3] $C_{10}H_{16}$ (136.24). **Pharm:** Antitussive (mouse, fog-ammonia method, 800mg/kg, perfusion in stomach, cough time of half the animals increased by 135%); dispels phlegm (mus, phenol red method, 400mg/kg and 800mg/kg, perfusion in stomach, output of phenol red increases 214% and 276% respectively); LD_{50} (mus, orl) $\geq 4.8\text{g/kg}$. **Source:** CHAI HU *Bupleurum chinense*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, MA HUANG *Ephedra sinica*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], MU XU *Medicago sativa*, TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf), WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, XIANG YE *Pelargonium graveolens*, YAN JIAO CAO *Boenninghausenia albiflora*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata* (in 1925, the compound was isolated from the plant)^[5505]. **Ref:** 2, 660, 1446, 1447, 4298, 5505.

**15147 Myrciacitrin I**

$C_{23}H_{26}O_{11}$ (478.46). **Pharm:** Aldose reductase inhibitor (rat lens, $IC_{50} = 3.2\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** DUO HUA YANG MEI *Myrica multiflora* (leaf). **Ref:** 4174.

**15148 Myrciacitrin II**

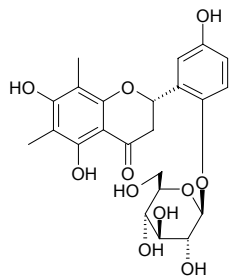
$C_{24}H_{28}O_{11}$ (492.48). **Pharm:** Aldose reductase inhibitor (rat lens, $IC_{50} = 15\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** DUO HUA YANG MEI *Myrica multiflora* (leaf). **Ref:** 4174.



15149 Myrciacitrin III

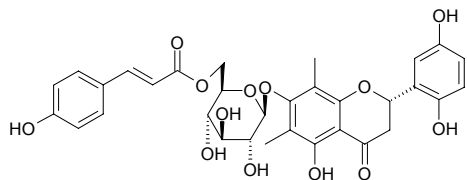
$C_{23}H_{26}O_{11}$ (478.46). Yellow powder, $[\alpha]_D^{25} = -104.2^\circ$ ($c = 0.16$, EtOH).

Pharm: Aldose reductase inhibitor (rat lens, $IC_{50} = 46\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** DUO HUA YANG MEI *Myrica multiflora* (leaf). **Ref:** 4174.

**15150 Myrciacitrin IV**

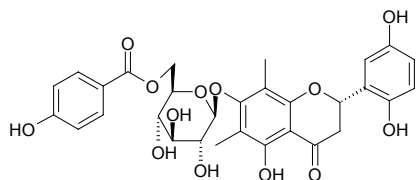
$C_{32}H_{32}O_{13}$ (624.60). Yellow powder, $[\alpha]_D^{26} = -99.2^\circ$ ($c = 0.68$, EtOH). **Pharm:**

Aldose reductase inhibitor (rat lens, $IC_{50} = 0.79\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** DUO HUA YANG MEI *Myrica multiflora* (leaf). **Ref:** 4174.

**15151 Myrciacitrin V**

$C_{30}H_{30}O_{13}$ (598.57). Yellow powder, $[\alpha]_D^{26} = +108.2.2^\circ$ ($c = 0.028$, EtOH).

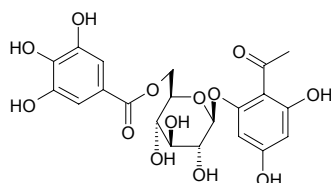
Pharm: Aldose reductase inhibitor (rat lens, $IC_{50} = 16\mu\text{mol/L}$, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** DUO HUA YANG MEI *Myrica multiflora* (leaf). **Ref:** 4174.

**15152 Myrciaphenone B**

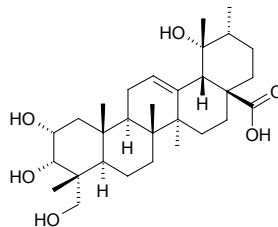
$C_{21}H_{22}O_{13}$ (482.40). $[\alpha]_D^{25} = -64^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antifungal

(*Candida albicans* ATCC2091, MIC > 200 $\mu\text{g/mL}$, control Amphotericin B, MIC = 1 $\mu\text{g/mL}$; *Candida albicans* 32, MIC > 200 $\mu\text{g/mL}$, Amphotericin B, MIC = 4 $\mu\text{g/mL}$; *Candida albicans* 19, MIC = 200 $\mu\text{g/mL}$, Amphotericin B, MIC = 2 $\mu\text{g/mL}$); cytotoxic inactive (MIC > 200 $\mu\text{g/mL}$); antibacterial inactive.

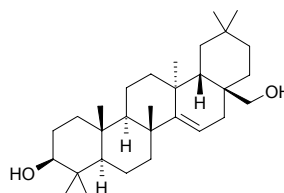
Source: *Baseonema acuminatum* (leaf). **Ref:** 5021.

**15153 Myrianthic acid**

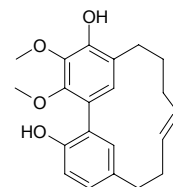
$C_{30}H_{48}O_6$ (504.71). **Source:** YANG TI *Rumex japonicus* (stem). **Ref:** 4541.

**15154 Myricadiol**

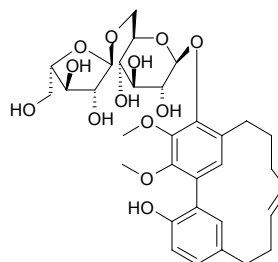
Myricadiol [17884-88-7] $C_{30}H_{50}O_2$ (442.73). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 $\mu\text{mol/L}$, InRt = $(-12.0\pm 1.9)\%$, control Curcumin, 100 $\mu\text{mol/L}$, InRt = $(62.6\pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase^[4163]. **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.020%^[4163]). **Ref:** 1422, 4163.

**15155 Myricanene A**

$C_{21}H_{24}O_4$ (340.42). White powder, a product with high activity by enzymatic hydrolysis of the glucoside. **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $IC_{50} = 98\mu\text{mol/L}$, control Curcumin, $IC_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 4163.

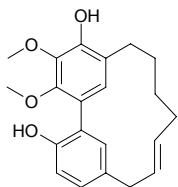
**15156 Myricanene A****5-O- α -L-arabinofuranosyl(1 \rightarrow 6)- β -D-glucopyranoside**

$C_{32}H_{42}O_{13}$ (634.68). White powder, $[\alpha]_D^{22} = -0.6^\circ$ ($c = 0.1$, EtOH). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 $\mu\text{mol/L}$, InRt = $(7.9\pm 1.4)\%$, control Curcumin, 100 $\mu\text{mol/L}$, InRt = $(62.6\pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0032%). **Ref:** 4163.

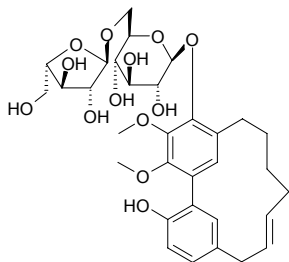


15157 Myricanene B

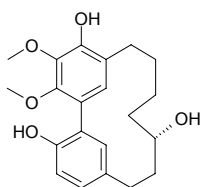
$C_{21}H_{24}O_4$ (340.42). White powder, a product with high activity by enzymatic hydrolysis of the glucoside. **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $IC_{50} \approx 100\mu\text{mol/L}$, control Curcumin, $IC_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 4163.

**15158 Myricanene B 5-O- α -L-arabinofuranosyl(1 \rightarrow 6)- β -D-glucopyranoside**

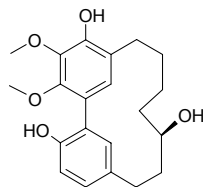
$C_{32}H_{42}O_{13}$ (634.68). White powder, $[\alpha]_D^{22} = -10.8^\circ$ ($c = 0.1$, EtOH). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $100\mu\text{mol/L}$, InRt = $(-5.2 \pm 2.8)\%$, control Curcumin, $100\mu\text{mol/L}$, InRt = $(62.6 \pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0029%). **Ref:** 4163.

**15159 (+)-S-Myricanol**

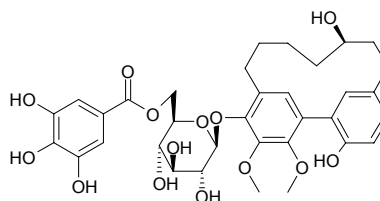
$C_{21}H_{26}O_5$ (358.44). White powder, $[\alpha]_D^{22} = +37.3^\circ$ ($c = 0.2$, CHCl_3), a product with high activity by enzymatic hydrolysis of the glucoside. **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $IC_{50} = 28\mu\text{mol/L}$, control Curcumin, $IC_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 4163.

**15160 Myricanol**

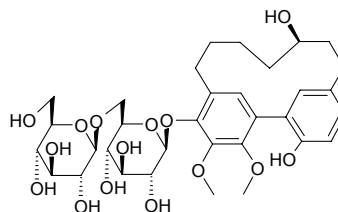
[33606-81-4] $C_{21}H_{26}O_5$ (358.44). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $IC_{50} = 63\mu\text{mol/L}$, control Curcumin, $IC_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase)^[4163]. **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.73%dw). **Ref:** 1421, 4163.

**15161 Myricanol galloyl glucoside**

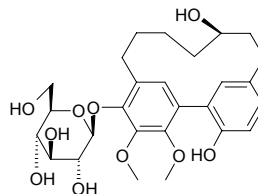
$C_{34}H_{40}O_{14}$ (672.69). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 1247.

**15162 Myricanol gentiobioside**

$C_{33}H_{46}O_{15}$ (682.73). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 1247.

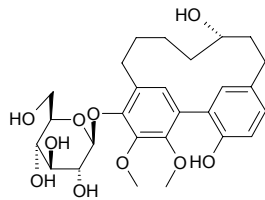
**15163 R-Myricanol 5-O- β -D-glucopyranoside**

$C_{27}H_{36}O_{10}$ (520.58). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $100\mu\text{mol/L}$, InRt = $(6.7 \pm 5.5)\%$, control Curcumin, $100\mu\text{mol/L}$, InRt = $(62.6 \pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase)^[4163]. **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.20%). **Ref:** 1421, 4163.

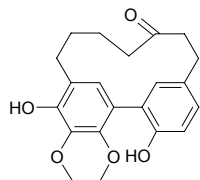


15164 (+)-S-Myricanol 5-O-β-D-glucopyranoside

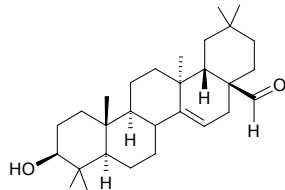
$C_{27}H_{36}O_{10}$ (520.58). White powder, $[\alpha]_D^{22} = +81.3^\circ$ ($c = 0.2$, EtOH). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $100\mu\text{mol/L}$, $\text{InRt} = (-13.1 \pm 3.6)\%$, control Curcumin, $100\mu\text{mol/L}$, $\text{InRt} = (62.6 \pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase). **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.074%). **Ref:** 4163.

**15165 Myricanone**

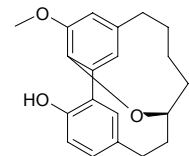
[32492-74-3] $C_{21}H_{24}O_5$ (356.42). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $\text{IC}_{50} = 46\mu\text{mol/L}$, control Curcumin, $\text{IC}_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase)^[4163]. **Source:** YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.036%). **Ref:** 1421, 4163.

**15166 Myricaolal***

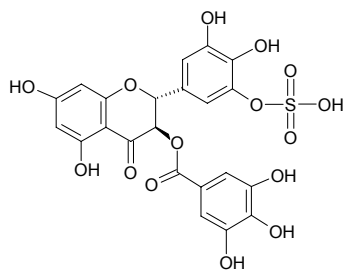
Myrkolal $C_{29}H_{46}O_2$ (426.69). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 1247.

**15167 Myricarborin**

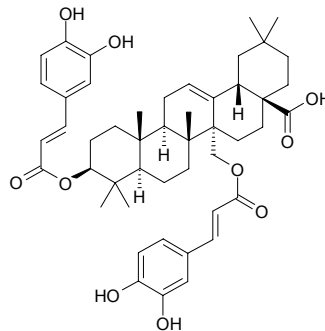
$C_{20}H_{22}O_3$ (310.40). Colorless plates (CH_2Cl_2), mp $141\text{--}143^\circ\text{C}$, $[\alpha]_D^{22} = +9.3^\circ$ ($c = 0.41$, MeOH). **Source:** QIAO MU ZHUANG YANG MEI *Myrica arborea* (stem and root cortex). **Ref:** 5079.

**15168 Myricatin**

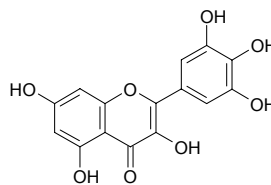
[87388-96-3] $C_{22}H_{16}O_{15}S$ (552.43). **Source:** YANG MEI SHU PI *Myrica rubra*. **Ref:** 1420.

**15169 Myriceric acid C**

$C_{48}H_{60}O_{10}$ (797.01). **Pharm:** Anti-HIV (H9 lymphocytic cells, inhibits replication, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) = $14.95\mu\text{g/mL}$); cytotoxic (hmn, A549 $\text{EC}_{50} = 3.9\mu\text{g/mL}$, MCF7 $\text{EC}_{50} = 4.1\mu\text{g/mL}$). **Source:** TAI WAN FU RONG *Hibiscus taiwanensis*. **Ref:** 2529.

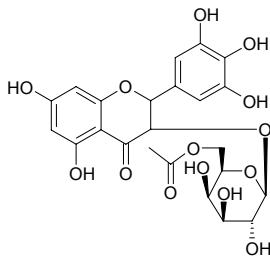
**15170 Myricetin**

3,3',4',5,5',7-Hexahydroxyflavone; Cannabiscetin; Myricetol [529-44-2] $C_{15}H_{10}O_8$ (318.24). mp $> 330^\circ\text{C}$. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus dysenteriae*, *B. Typhosus*, *Pseudomonas maltophilia* and *Enteromorpha cloacae*); antineoplastic (B16 melanoma and L_{1210} , *in vivo*); anti-gonadotropin; cytotoxic (KB *in vitro*, $\text{EC} = 15\mu\text{g/mL}$); antitussive (dispels phlegm); diuretic; inhibits release and metabolism of arachidonic acid; aldose reductase inhibitor (mus eye lens, $100\mu\text{mol/L}$, $\text{InRt} = 100\%$); $\Delta(5)$ -lipoxygenase inhibitor; NADH oxidase inhibitor; succinic oxidase inhibitor; inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $\text{IC}_{50} = 23\mu\text{mol/L}$, control Curcumin, $\text{IC}_{50} = 82\mu\text{mol/L}$, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase)^[4163]; DPPH scavenger ($\text{IC}_{50} = (16.0 \pm 0.4)\mu\text{mol/L}$, control Trolox, $\text{IC}_{50} = (25.4 \pm 0.8)\mu\text{mol/L}$)^[4244]; LD (rbt, sc) = 8–10g/kg. **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*, CAO YUAN DA JI *Euphorbia stepposa*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], CU LIU GUO *Hippophae rhamnoides*, GUI JIAN JIN JI ER *Caragana jubata*, HUANG SHU KUI HUA *Abelmoschus manihot*, WEN GUAN MU *Xanthoceras sorbifolia* (stem and trunk: mean content = 0.12%)^[5508], XIAN CHI SHE PU TAO *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], YANG MEI *Myrica rubra*, YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%)^[5501], YANG PU TAO YE *Syzygium samarangense*, YING MAO JIN SI TAO *Hypericum hirsutum*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), ZHAO SHENG DA JI *Euphorbia palustris*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*]. **Ref:** 2, 4, 605, 658, 4013, 4163, 4244, 4100, 5501, 5507.

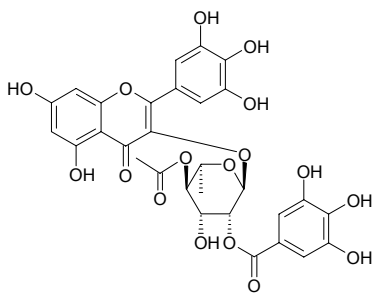


15171 Myricetin-3-O-(6''-acetyl)- β -D-galactopyranoside

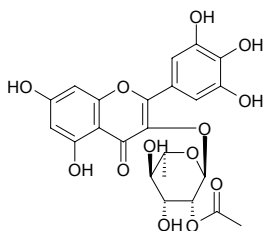
$C_{23}H_{24}O_{14}$ (524.44). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.

**15172 Myricetin-3-O-(4''-O-acetyl-2''-O-galloyl)- α -L-¹C₇-rhamnopyranoside**

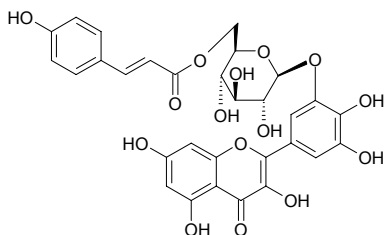
$C_{30}H_{26}O_{17}$ (658.53). Yellow amorphous powder. Source: WU MO *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*] (leaf). Ref: 5237.

**15173 Myricetin-3-O-(2''-O-acetyl- α -rhamnopyranoside)**

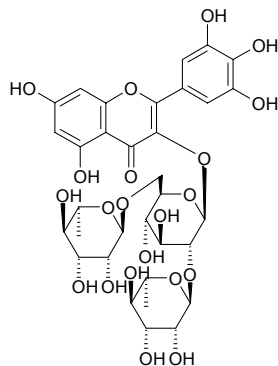
$C_{23}H_{22}O_{13}$ (506.42). Source: LAN SHUI LIAN *Nymphaea caerulea*. Ref: 2342.

**15174 Myricetin-3'-O-(6''-p-coumaroyl) glucoside**

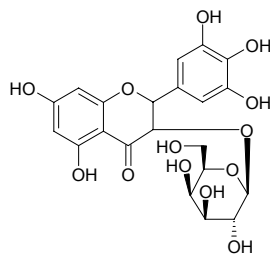
$C_{30}H_{26}O_{15}$ (626.53). Brown amorphous solid, mp 130–136°C (dec). Source: CHI YE SHUI LIAN *Nymphaea lotus*. Ref: 3405.

**15175 Myricetin-3-O-(2'',6''-di-O- α -rhamnosyl)- β -glucoside**

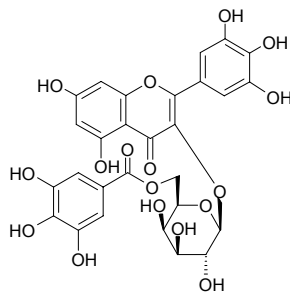
$C_{33}H_{40}O_{21}$ (772.67). Dark-yellow amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea*. Ref: 2064.

**15176 Myricetin-3-O- β -D-galactopyranoside**

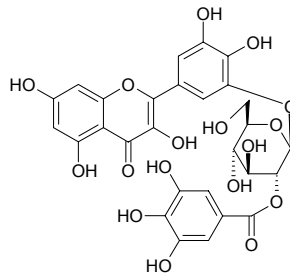
$C_{21}H_{22}O_{13}$ (482.40). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.

**15177 Myricetin-3-O- β -D-(6''-O-galloyl)-galactopyranoside**

$C_{28}H_{24}O_{17}$ (632.49). Source: FEI CAI *Sedum aizoon*. Ref: 1486.

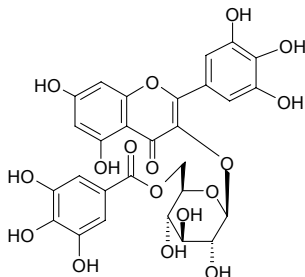
**15178 Myricetin-3-O-(2''-O-galloyl)- β -D-glucopyranoside**

$C_{28}H_{24}O_{17}$ (632.49). $[\alpha]_D^{25} = -65^\circ$ ($c = 0.17$, MeOH). Source: QU YU CAO DI LAO GUAN CAO *Geranium pratense* ssp. *funitimum* (aerial parts). Ref: 5126.

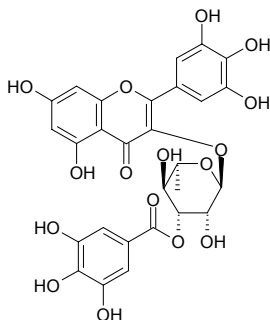


15179 Myricetin-3-O-β-D-(6''-O-galloyl)-glucopyranoside

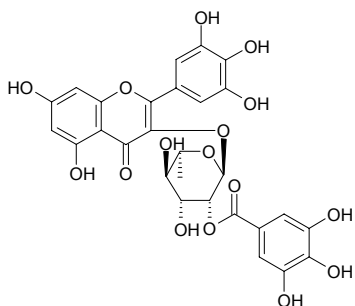
$C_{28}H_{24}O_{17}$ (632.49). Source: FENG XIANG SHU *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], FEI CAI *Sedum aizoon*. Ref: 1485, 1486.

**15180 Myricetin-3-O-(2''-O-galloyl)-α-rhamnopyranoside**

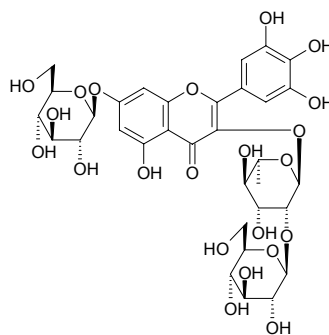
$C_{28}H_{24}O_{16}$ (616.49). $[\alpha]_D^{25} = -11.6^\circ$ ($c = 0.43$, MeOH). Pharm: Inhibits cell proliferation of PBMC (activated by phytohemagglutinin (PHA), $IC_{50} = 11.9\mu\text{mol/L}$, inhibitory mechanism may involve the blocking of IL-2 and IFN- γ production). Source: YANG PU TAO YE *Syzygium samarangense*. Ref: 4100.

**15181 Myricetin-3-O-(3''-O-galloyl)-α-rhamnopyranoside**

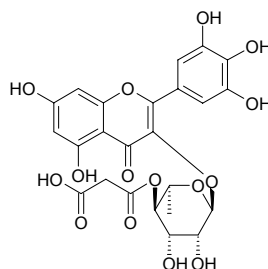
Desmanthin 1 [56939-52-7] $C_{28}H_{24}O_{16}$ (616.49). Yellow powder, mp 176°C. Source: BIAN XU *Polygonum aviculare*, YANG PU TAO YE *Syzygium samarangense*. Ref: 1521, 2210, 4100.

**15182 Myricetin-3-O-α-L-(2-O-β-D-glucopyranosyl)rhamnopyranoside-7-O-β-D-glucopyranoside**

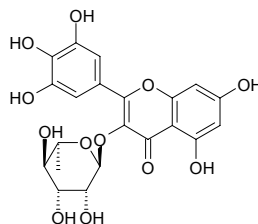
$C_{33}H_{40}O_{22}$ (788.67). Source: SHUANG HUA FAN HONG HUA *Crocus chrysanthus-biflorus*. Ref: 2343.

**15183 Myricetin-3-O-(4''-O-malonyl)-α-L-rhamnopyranoside**

$C_{24}H_{22}O_{15}$ (550.43). Source: GAO SHAN CHA BIAO *Ribes alpinum* (leaf). Ref: 3541.

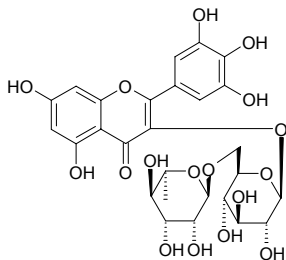
**15184 Myricetin-3-O-α-L-rhamnoside**

Myricitrin [17912-87-7] $C_{21}H_{20}O_{12}$ (464.39). mp 197~199°C (anhydrate); $[\alpha]_D^{25} = -150.0^\circ$ ($c = 0.50$, MeOH). Pharm: Antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*); anti-inflammatory (induced by 12-O-tetradecanoylphorbol-13-acetate); choleric; CVS activity (contracts blood vessels, Increases blood pressure and stimulates heart); aldose reductase inhibitor (rat eye lens *in vivo*, $10\mu\text{mol/L}$, InRt = 100%); mutagen (*Salmonella aertrycke*); inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, $100\mu\text{mol/L}$, InRt = $(12.6\pm 4.2)\%$, control Curcumin, $100\mu\text{mol/L}$, InRt = $(62.6\pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase)^[4163]; hepatoprotective (primary cultures of rat hepatocytes, H_2O_2 -induced toxicity, $50\mu\text{mol/L}$, relative protection = 24.6% (H_2O_2 -treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%)^[4996]; inhibits cell proliferation of PBMC (activated by phytohemagglutinin (PHA), $IC_{50} = 75.6\mu\text{mol/L}$, inhibitory mechanism may involve the blocking of IL-2 and IFN- γ production)^[4100]. Source: CE BAI YE *Thuja orientalis* [Syn. *Platyclus orientalis*; *Biota orientalis*], DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*], HENG GEN FEI CAI *Sedum kamschaticum*, GUI JIAN JIN JI ER *Caragana jubata*, HEI HU TAO *Juglans nigra*, SHI YE *Diospyros kaki*, XIAN CHI SHE PU TAO *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], YANG MEI *Myrica rubra*, YANG MEI SHU PI *Myrica rubra* (5.59%), YANG PU TAO YE *Syzygium samarangense*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), ZI JIN NIU *Ardisia japonica*, RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 6, 605, 658, 1417, 4163, 4205, 4996, 4100.

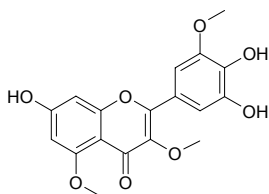


15185 Myricetin-3-rutinoside

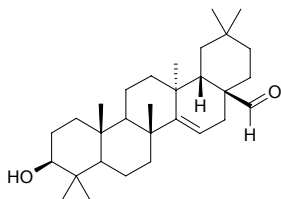
Myricetin 3-*O*-(6"-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside C₂₇H₃₀O₁₇ (626.53). Source: LV DOU *Onobrychis viciifolia* (leaf). Ref: 5084.

**15186 Myricetin-3,5,3'-trimethyl ether**

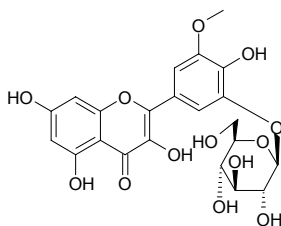
C₁₈H₁₆O₈ (360.32). Source: KE SHI FAN YING TAO *Eugenia edulis* (leaf). Ref: 3469.

**15187 Myricolal**

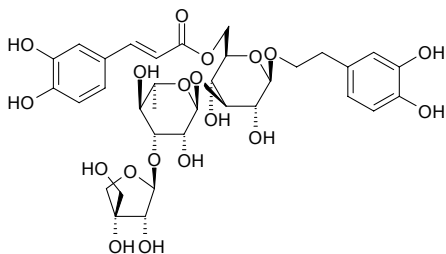
C₃₀H₄₈O₂ (440.71). Crystals, mp 288°C. Source: XIANG YANG MEI *Myrica gale*. Ref: 1512.

**15188 Myricomplanoside**

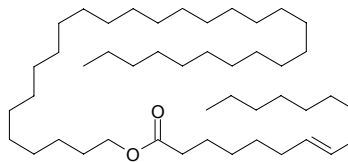
[123442-26-2] C₂₂H₂₂O₁₃ (494.41). Yellow acicular crystals, mp 255~257°C. Source: BIAN JING HUANG QI *Astragalus complanatus*. Ref: 123.

**15189 Myricoside**

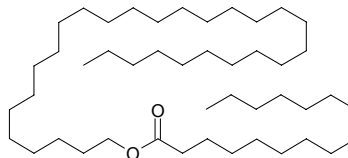
[76076-04-5] C₃₄H₄₄O₁₉ (756.71). Pharm: Insect antifeedant. Source: YANG MEI CHANG SHAN *Clerodendron myricoides*. Ref: 658.

**15190 Myricyl hypogaeate**

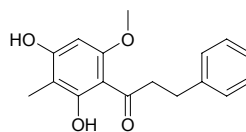
C₄₆H₉₀O₂ (675.23). Source: MI LA *Apis cerana*. Ref: 6.

**15191 Myricyl palmitate**

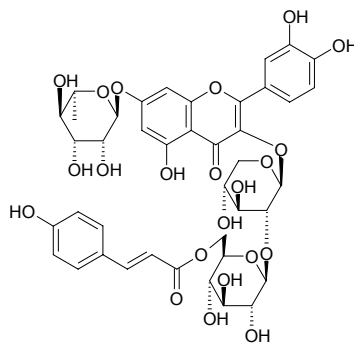
C₄₆H₉₂O₂ (677.24). Source: MI LA *Apis cerana*. Ref: 6.

**15192 Myrigalone H**

C₁₇H₁₈O₄ (286.33). Source: YANG PU TAO YE *Syzygium samarangense*. Ref: 4100.

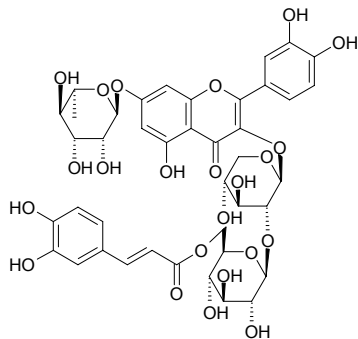
**15193 Myriophylloside B**

Quercetin-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-*P*-coumaroyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside C₄₁H₄₄O₂₂ (888.79). Yellow powder, mp 218~220°C, [α]_D²⁵ = -167.5° (MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 4265.

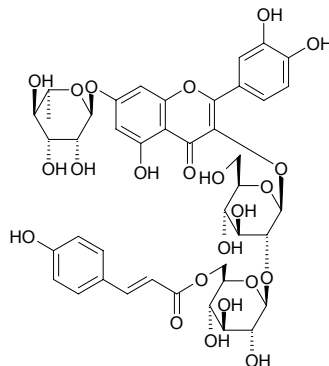


15194 Myriophylloside C

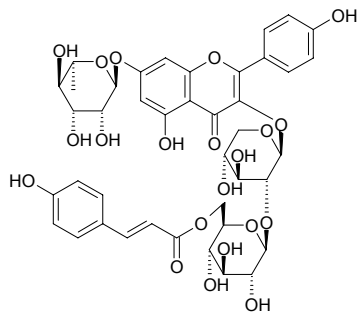
Quercetin-7-*O*- α -L-rhamnopyranosyl-3-*O*-(6''-caffeoyl)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside C₄₁H₄₄O₂₃ (904.79). Yellow powder, mp 205~207°C, $[\alpha]_D^{25} = -173.8^\circ$ (MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 4265.

**15197 Myriophylloside F**

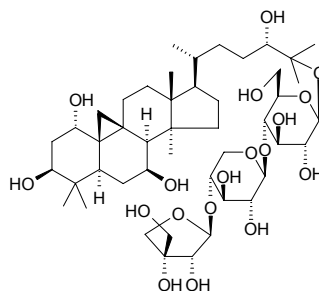
Quercetin-7-*O*- α -L-rhamnopyranosyl-3-*O*-(6''-P-coumaroyl)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside C₄₂H₄₆O₂₃ (918.82). Yellow powder, mp 224~226°C, $[\alpha]_D^{25} = -168.6^\circ$ (MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 4265.

**15195 Myriophylloside D**

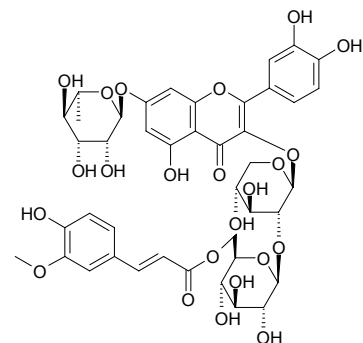
Kaempferol-7-*O*- α -L-rhamnopyranosyl-3-*O*-(6''-P-coumaroyl)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside C₄₁H₄₄O₂₁ (872.80). Yellow powder, mp 197~200°C, $[\alpha]_D^{25} = -120.3^\circ$ (MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 4265.

**15198 Myrioside A**

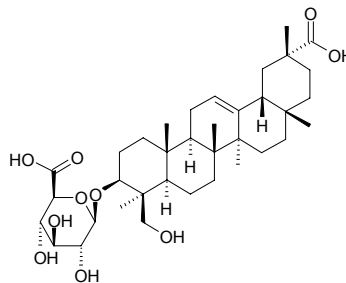
25-*O*- β -D-Apiofuranosyl(1 \rightarrow 4)- β -D-xylopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl 1 α ,3 β ,7 β ,24(S),25-pentahydroxycycloartane C₄₆H₇₈O₁₈ (919.12). Amorphous powder, $[\alpha]_D^{16} = -10.1^\circ$ ($c = 0.10$, MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla* (whole herb). Ref: 4222.

**15196 Myriophylloside E**

Quercetin-7-*O*- α -L-rhamnopyranosyl-3-*O*-(6''-feruloyl)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside C₄₂H₄₆O₂₃ (918.82). Yellow powder, mp 212~214°C, $[\alpha]_D^{25} = -154.8^\circ$ (MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 4265.

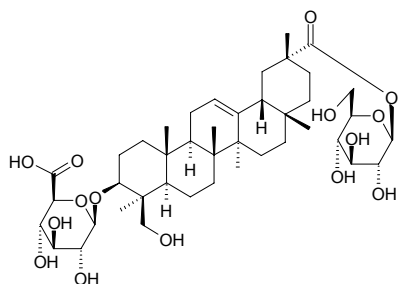
**15199 Myrioside B**

3-*O*- β -D-Glucuronopyranosyl azukisapogenol C₃₆H₅₆O₁₀ (648.84). Amorphous powder, $[\alpha]_D^{15} = +2.3^\circ$ ($c = 0.11$, MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla* (whole herb). Ref: 4222.

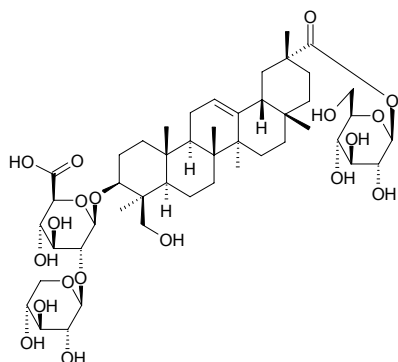


15200 Myrioside C

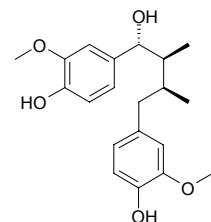
3-*O*- β -*D*-Glucuronopyranosyl azukisapogenol 29-*O*- β -*D*-glucopyranosyl ester C₄₂H₆₆O₁₅ (810.99). Amorphous powder, $[\alpha]_D^{14} = -2.2^\circ$ ($c = 0.12$, MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla* (whole herb). Ref: 4222.

**15201 Myrioside D**

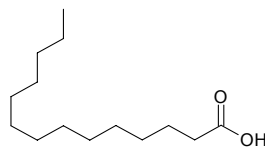
3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranosyl azukisapogenol 29-*O*- β -*D*-glucopyranoside ester C₄₇H₇₄O₁₉ (943.10). Amorphous powder, $[\alpha]_D^{15} = -4.0^\circ$ ($c = 0.10$, MeOH). Source: DUO YE JI DOU *Oxytropis myriophylla* (whole herb). Ref: 4222.

**15202 Myristargenol B**

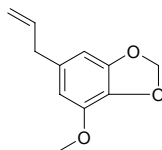
C₂₀H₂₆O₅ (346.43). Colorless amorphous, $[\alpha]_D^{24} = +10^\circ$ ($c = 0.09$, CHCl₃). Pharm: Antioxidant (DPPH scavenger). Source: FENG CHAO CAO *Leucas aspera* (whole herb). Ref: 4344.

**15203 Myristic acid**

Tetradecanoic acid [544-63-8] C₁₄H₂₈O₂ (228.38). mp 58°C, bp 250.5°C/100mmHg. Pharm: Precursor to essence synthesis; COX-1 and COX-2 inhibitor (IC₅₀ = 3.9~180 μ mol/L, lack of selectivity)^[4415]. Source: BA DOU *Croton tiglium*, BING LANG *Areca catechu*, BU GU ZHI *Psoralea corylifolia*, CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA ZAO *Ziziphus jujuba*, DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *Huechingensis*], GUA LOU *Trichosanthes kirilowii*, HONG HUA *Carthamus tinctorius*, JI GUAN ZI *Celosia cristata* (seed), LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: content = 0.3%)^[5508], MAN JING ZI *Vitex trifolia*, QIANG HUO *Notopterygium incisum*, ROU DOU KOU *Myristica fragrans*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XI OU YUAN WEI *Iris florentina*, XIN JIANG GAO BEN *Conioselinum vaginatum*, XING REN *Prunus armeniaca*, YIN CHEN HAO *Artemisia capillaris*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, occurs in many plants. Ref: 2, 333, 660, 4415, 5508.

**15204 Myristicin**

[607-91-0] C₁₁H₁₂O₃ (192.22). bp 157°C/21mmHg, 149.5°C/15mm; 95~97°C/0.2mmHg. Pharm: Antineoplastic (mus lung tumor, InRt = 65%, stomach tumor InRt = 31%); antifungal (*Cladosporium cucumerinum* *in vitro*, MED = 20 μ g); hallucinogen (normal hmn); induces activity of cytochrome system (rat, ip, 500 μ mol/kg, improves liver P450-1A1/2, 2B1/2 and 2E1 activity by 2~20 times); antioxidant (mus liver, inhibits lipid peroxidation); platelet aggregation inhibitor (rbt, *in vitro*); monoamine oxidase inhibitor (*in vitro*); larvicide (larva of *Stegomyia calopus*, 100% killed in 24h, 25mg/L); teratogen. Source: DA CAO KOU *Alpinia speciosa*, GAO BEN *Ligusticum sinense* (root and rhizome: content = 11.31%)^[5508], HAN QIN *Apium graveolens*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], LIAO GAO BEN *Ligusticum jeholense* (root and rhizome: content = 1.51%)^[5508], LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, NAN HE SHI *Daucus carota*, OU FANG FENG *Pastinaca sativa*, ROU DOU KOU *Myristica fragrans* (kernel: content scope = 2.12%~2.88%, mean content = 2.49%)^[5508], XI XIN *Asarum sieboldii*, XIN JIANG GAO BEN *Conioselinum vaginatum* (root and rhizome: content = 2.21%)^[5508], YUN NAN ZHANG *Cinnamomum glanduliferum*, ZHOU YE OU QIN *Petroselinum crispum*. Ref: 2, 660, 900, 5508.

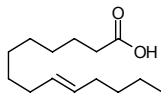


15205 Myristoleic acid

Tetradecenoic acid C; *cis*-9-Tetradecenoic acid [544-64-9] C₁₄H₂₆O₂ (226.36).

Source: BING LANG *Areca catechu*, ZHANG MU *Cinnamomum camphora*.

Ref: 2, 1475.

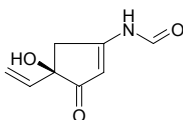
**15206 Myrothenone A**

5(*R*)-5-Ethenyl-3-formamido-5-hydroxy-2-cyclopenten-1-one C₈H₉NO₃

(167.17). Pharm: Tyrosinase inhibitor (IC₅₀ = 6.6 μmol/L, control Kojic acid,

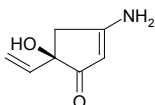
IC₅₀ = 7.7 μmol/L, used as a functional personal-care compound). Source:

Myrothecium sp. Ref: 4457.

**15207 Myrothenone B**

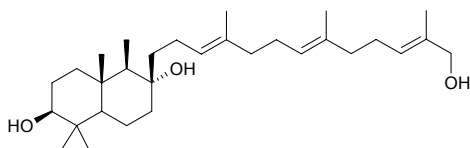
3-Amino-5-ethenyl-5-hydroxy-2-cyclopenten-1-one C₇H₉NO₂ (139.16).

Colorless oil. Source: *Myrothecium* sp. Ref: 4457.

**15208 Myrrhanol A**

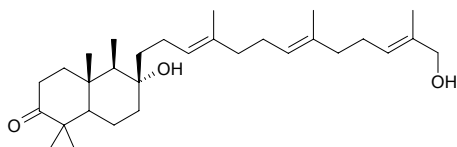
C₃₀H₅₂O₃ (460.75). Colorless oil, [α]_D²⁷ = +12.2° (*c* = 1.00, MeOH). Source:

MU KU ER MO YAO *Commiphora mukul*. Ref: 2572.

**15209 Myrrhanone A**

C₃₀H₅₀O₃ (458.73). Colorless oil, [α]_D²⁸ = +11.9° (*c* = 1.00, MeOH). Source:

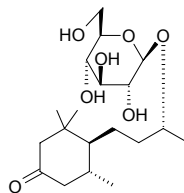
MU KU ER MO YAO *Commiphora mukul*. Ref: 2572.

**15210 Myrsinioside A**

(5*R*,6*S*,9*R*)-Megastigma-3-on-9-ol 9-*O*-β-*D*-glucopyranoside C₁₉H₃₄O₇

(374.48). Amorphous powder, [α]_D²⁴ = -13.8° (*c* = 1.30, MeOH). Source:

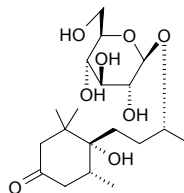
Myrsine seguinii (leaf). Ref: 4119.

**15211 Myrsinioside B**

(5*R*,6*R*,9*R*)-Megastigma-3-on-6,9-diol 9-*O*-β-*D*-glucopyranoside C₁₉H₃₄O₈

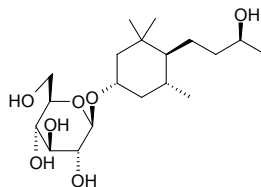
(390.48). Amorphous powder, [α]_D²⁴ = -3.0° (*c* = 0.41, MeOH). Source:

Myrsine seguinii (leaf). Ref: 4119.

**15212 Myrsinioside C**

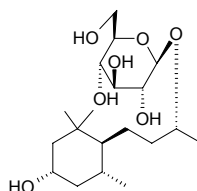
(3*S*,5*R*,6*S*,9*S*)-Megastigma-3,9-diol 3-*O*-β-*D*-glucopyranoside C₁₉H₃₆O₇

(376.49). Amorphous powder. Source: *Myrsine seguinii* (leaf). Ref: 4119.

**15213 Myrsinioside D**

C₁₉H₃₆O₇ (376.49). Amorphous powder, [α]_D²⁴ = -28.6° (*c* = 1.40, MeOH).

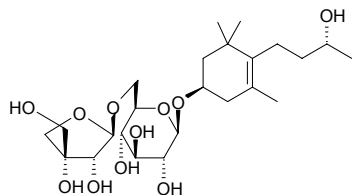
Source: *Myrsine seguinii* (leaf). Ref: 4119.



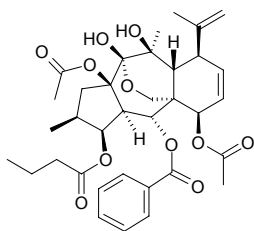
15214 Myrsinioside E

$C_{24}H_{42}O_{11}$ (506.60). Amorphous powder, $[\alpha]_D^{24} = -76.4^\circ$ ($c = 0.72$, MeOH).

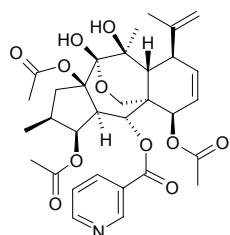
Source: *Myrsine seguinii* (leaf). Ref: 4119.

**15215 Myrsinol-type diterpene ester CPB51-719-1**

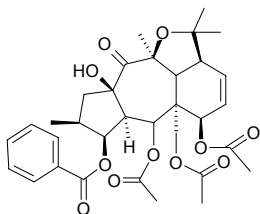
$C_{35}H_{44}O_{11}$ (640.73). Colorless oil, $[\alpha]_D^{23} = -3.28^\circ$ ($c = 0.12$, $CHCl_3$). Pharm: Prolyl endopeptidase inhibitor (*in vitro*, $IC_{50} = 3.195\mu\text{mol/L}$, positive control Bacitracin, $IC_{50} = 129.26\mu\text{mol/L}$). Source: MI HUO DA JI *Euphorbia decipiens*. Ref: 4350.

**15216 Myrsinol-type diterpene ester CPB51-719-2**

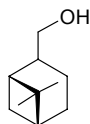
$C_{32}H_{39}NO_{11}$ (613.67). Colorless oil, $[\alpha]_D^{23} = -6.63^\circ$ ($c = 1.66$, $CHCl_3$). Pharm: Urease inhibitor (*in vitro*, $IC_{50} = 81.39\mu\text{mol/L}$, positive control Thiourea, $IC_{50} = 21\mu\text{mol/L}$). Source: MI HUO DA JI *Euphorbia decipiens*. Ref: 4350.

**15217 Myrsinol-type diterpene ester CPB51-719-3**

$C_{32}H_{40}O_{11}$ (612.68). Colorless oil, $[\alpha]_D^{23} = -9.68^\circ$ ($c = 0.14$, $CHCl_3$). Pharm: Prolyl endopeptidase inhibitor (*in vitro*, $IC_{50} = 10.52\mu\text{mol/L}$, positive control Bacitracin, $IC_{50} = 129.26\mu\text{mol/L}$). Source: MI HUO DA JI *Euphorbia decipiens*. Ref: 4350.

**15218 Myrtanol**

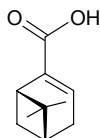
$C_{10}H_{18}O$ (154.25). Source: CHAI HU *Bupleurum chinense*, ZHU YE CHAI HU *Bupleurum marginatum*, XIAN YE CHAI HU *Bupleurum angustissimum*, XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*, ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. Ref: 1350, 660.

**15219 Myrtenal**

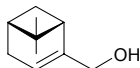
[23727-16-4] $C_{10}H_{14}O$ (150.22). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**15220 Myrtenic acid**

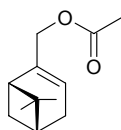
[601-74-1] $C_{10}H_{14}O_2$ (166.22). Source: RU XIANG *Boswellia carterii*. Ref: 1271.

**15221 Myrtenol**

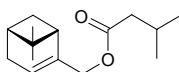
[6712-78-3] $C_{10}H_{16}O$ (152.24). bp (-) 221~222°C. Pharm: dispels phlegm; antimicrobial; immunoenhancer. Source: CHAI HU *Bupleurum chinense*. Ref: 2, 1612, 1613.

**15222 (+)-Myrtenyl acetate**

$C_{12}H_{18}O_2$ (194.28). Source: XIE CAO *Valeriana officinalis*. Ref: 6.

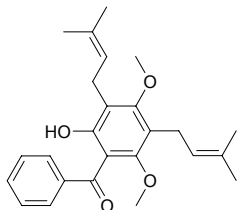
**15223 L-Myrtenyl isovalerate**

$C_{15}H_{24}O_2$ (236.36). Source: XIE CAO *Valeriana officinalis*. Ref: 6.

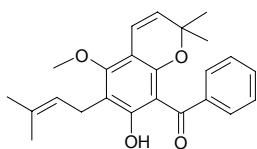


15224 Myrtiaphenone A

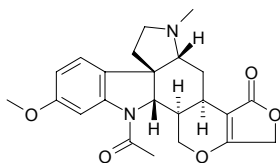
6-Hydroxy-2,4-dimethoxy-3,5-bis(3-methyl-2-butenyl)benzophenone
 $C_{25}H_{30}O_4$ (394.52). Source: FEI JI TENG HUANG *Garcinia pseudoguttifera*
 (heartwood). Ref: 3911.

**15225 Myrtiaphenone B**

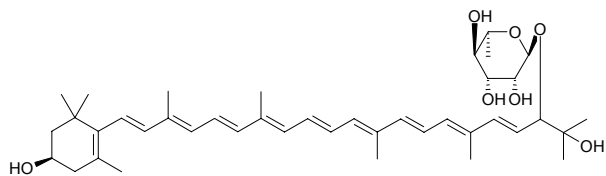
2,2-Dimethyl-8-benzoyl-7-hydroxy-5-methoxy-6-(3-methyl-2-butenyl)benzopyran
 $C_{24}H_{26}O_4$ (378.47). Source: FEI JI TENG HUANG *Garcinia pseudoguttifera*
 (heartwood). Ref: 3911.

**15226 Myrtoidine**

$C_{23}H_{26}N_2O_5$ (410.47). Crystals (EtOAc and cyclohexane which char without melting), $[\alpha]_D^{20} = -46.6^\circ$ ($c = 0.5$, CH_2Cl_2). Source: *Strychnos myrtoides*. Ref: 2297.

**15227 Myxoxanthophyll**

$C_{41}H_{60}O_7$ (664.93). Source: FA CAI *Nostoc flagelliforme*. Ref: 660.



Jiaju Zhou · Guirong Xie · Xinjian Yan

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Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Vol.4

Isolated Compounds N-S

 Springer

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Natural Sources and Applications

Jiaju Zhou • Guirong Xie • Xinjian Yan

Encyclopedia of
Traditional Chinese Medicines
Molecular Structures, Pharmacological
Activities, Natural Sources and Applications

Vol. 4: Isolated Compounds N-S

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Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

-
- [1] Xinjian Yan, Jiaju Zhou and Guirong Xie, *Traditional Chinese Medicines: Molecular structures, natural sources, and applications*, 1st edition, Ashgate Publishing house, 1999
- [2] Jiaju Zhou, Guirong Xie and Xinjian Yan, *Traditional Chinese Medicines: Molecular structures, natural sources, and applications*, 2nd edition, Ashgate Publishing house, 2002
- [3] Jiaju Zhou, Guirong Xie and Xinjian Yan, *Handbook of Chemical Components in Plant Origins of Traditional Chinese Medicines*, Chemical Industry Press, Beijing, 2004 (in Chinese)
- [4] Jiaju Zhou, Guirong Xie and Xinjian Yan, *Data Collection of Chemical Components in Plant Origins of Traditional Chinese Medicines*, Vol 1-3, Science Press, Beijing, 2009 (in Chinese)

Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, $IC_{50} = 4.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.08\mu\text{g/mL}$;
 CHAGO human undifferentiated lung cancer cell, $IC_{50} = 5.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$;
 HepG2 human liver cancer cell, $IC_{50} = 6.5\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$;
 Kato3 human gastric cancer cell, $IC_{50} = 5.3\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$;
 SW620 human colorectal adenocarcinoma cell, $IC_{50} = 5.6\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

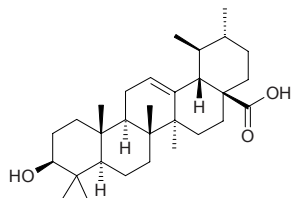
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

- Cytotoxic** (KB, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.12μg/mL; Hep3B, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.14μg/mL; Colon205, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.10μg/mL; HeLa, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.11μg/mL)^[4369];
- cytotoxic** (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)μmol/L, control Etoposide, IC₅₀ = (0.5±0.2)μmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)μmol/L; KB cell, IC₅₀ = (8.2±2.7)μmol/L, Etoposide, IC₅₀ = (0.9±0.3)μmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)μmol/L; HT29 cell, IC₅₀ = (4.7±1.5)μmol/L, Etoposide, IC₅₀ = (2.4±0.5)μmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)μmol/L)^[5254];
- antineoplastic** (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);
- antibacterial** (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];
- antibacterial** (*Staphylococcus* spp. *in vitro*, MIC = 300μg/mL, gram-positive bacteria *in vitro*, MIC = 50~400μg/mL, gram-negative bacteria *in vitro*, MIC = 200~800μg/mL, microzyme *in vitro*, MIC = 100~700μg/mL);
- antitubercular** (*Mycobacterium tuberculosis*, MIC = 41.9μg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5μg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03μg/mL, IC₅₀ = 98.3μg/mL, SI = 3277)^[4986];
- anticonvulsant** (induced by corazol);
- anti-inflammatory** (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);
- anti-inflammatory** (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];
- COX-2 enzyme selective inhibitor** (mean IC₅₀ of isomers = 130μmol/L)^[4415];
- COX-2 enzyme inhibitor** (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];
- antipyretic** (clearly reduces normal body temperature of rat);
- reduces serum transaminase** (animal, 100mg/kg);
- antitrypanosomal** (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2μmol/L, control Gentian violet, MLC = 6.2μmol/L)^[2579];
- mucin release stimulator** (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];
- platelet aggregation inhibitor** (2~5mg/mL collagen-induced, IC₅₀ = (511±4)μmol/L, control ASA, IC₅₀ = (420±3)μmol/L; 1~4μmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)μmol/L, ASA, IC₅₀ = (53.0±4.5)μmol/L; 10~40μmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)μmol/L, ASA, IC₅₀ = (66.0±2.1)μmol/L; 1~5μmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (340±12)μmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)μmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (ltn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	D-GalN	D-galactosamine
c	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	N-methyl-D-aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmn Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccina open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible Ha- <i>ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermatoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGe803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

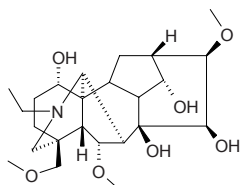
MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

Volume 4 Isolated Compounds (N-S)

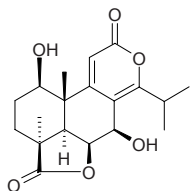
N

15228 Nagarine

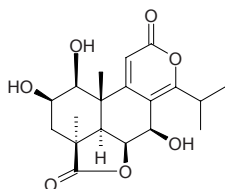
15-Episenbusine C; 15-Epifuziline; Crassicaulisine; 3-Deoxycrassicaulidine; Bullatine F [80665-73-2] $C_{24}H_{39}NO_7$ (453.58). Crystals (Me₂CO), mp 190~191°C, $[\alpha]_D^{21} = +20.4^\circ$ ($c = 0.88$, CHCl₃). Source: CU JING WU TOU *Aconitum crassicaule*, XIAO BAI CHENG *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*]. Ref: 2595, 2596.

**15229 Nagilactone A**

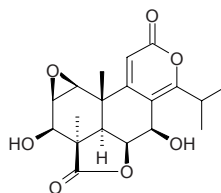
[19891-50-0] $C_{19}H_{24}O_6$ (348.40). mp 305°C (sub). Pharm: Plant growth regulator (pea, 10 μmol/L). Source: DUO SUI LUO HAN SONG SHI *Podocarpus polystachyus*, FEI LV BIN LUO HAN SONG *Podocarpus philippinensis*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi et al.)^[5505]. Ref: 5, 658, 1521, 5505.

**15230 Nagilactone B**

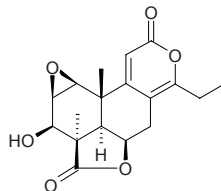
[19891-51-1] $C_{19}H_{24}O_7$ (364.40). mp 258~261°C (dec). Pharm: Cytotoxic (cultured Kichita sarcoma cells *in vitro*, IC₅₀ = 1.72 μmol/L); plant growth regulator (pea, 10 μmol/L). Source: ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968 the compound was isolated from the plant by Y.Hayahi, et al.)^[5505]. Ref: 5, 658, 1521, 5505.

**15231 Nagilactone C**

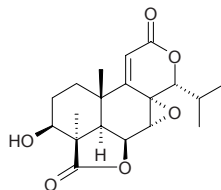
[24338-53-2] $C_{19}H_{22}O_7$ (362.38). mp 325°C, 290°C (dec). Pharm: Antineoplastic (mus P₃₈₈, *in vivo*, 40 mg/kg, biotic prolonged rate = 45%); cytotoxic (cultured Kichita sarcoma cells *in vitro*, IC₅₀ = 2.25 μmol/L); larvicide (larva of housefly and apple moth); plant growth regulator (pea, 10 μmol/L). Source: GAO SHAN LUO HAN SONG *Podocarpus nivalis*, HA SHI LUO HAN SONG *Podocarpus hallii*, LUO HAN SONG SHI *Podocarpus macrophyllus*, PU ER DI LUO HAN SONG *Podocarpus purdieana*, YUN WU LUO HAN SONG *Podocarpus nubigenus*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi et al.)^[5505]. Ref: 5, 6, 658, 1521, 5505.

**15232 Nagilactone D**

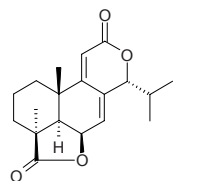
[19891-53-3] $C_{18}H_{20}O_6$ (332.36). mp 265~266°C (dec). Pharm: Cytotoxic (cultured Kichita sarcoma cells *in vitro*, IC₅₀ = 0.332 μmol/L); pesticide (larva, pupa and adult insect of housefly); plant growth regulator (pea, 10 μmol/L). Source: ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi, et al.)^[5505]. Ref: 5, 658, 1521, 5505.

**15233 Nagilactone E**

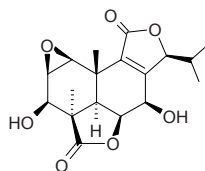
[36895-12-2] $C_{19}H_{24}O_6$ (348.40). Pharm: Antineoplastic (mus P₃₈₈, 20 mg/kg, ip); cytotoxic (cultured Kichita sarcoma cells *in vitro*, IC₅₀ = 3.6 μmol/L); pesticide (housefly); plant growth regulator (10~100 μmol/L). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*, *Podocarpus* sp. Ref: 5, 658, 1521.

**15234 Nagilactone F**

[36912-00-2] $C_{19}H_{24}O_4$ (316.40). Pharm: Cytotoxic (cultural Kichita sarcoma cells *in vitro*); plant growth regulator (10~100 μmol/L). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 5, 6, 658, 1521.

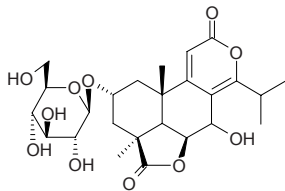
**15235 Nagilactone J**

$C_{18}H_{22}O_7$ (350.37). Needles (MeOH), mp 310°C (dec). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2597.

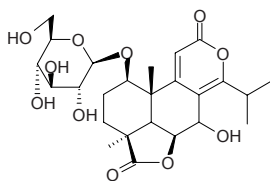


15236 Nagilactoside A

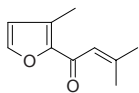
$C_{25}H_{34}O_{11}$ (510.54). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2598.

**15237 Nagilactoside B**

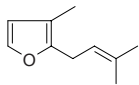
$C_{25}H_{34}O_{11}$ (510.54). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2599.

**15238 Naginataketone**

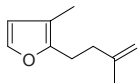
[6138-88-1] $C_{10}H_{12}O_2$ (164.21). bp 116~119°C/20mmHg. Source: BAN BIAN SU *Elsholtzia ciliata*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*]. Ref: 6, 660, 1521.

**15239 α -Naginatene**

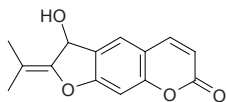
[15186-51-3] $C_{10}H_{14}O$ (150.22). Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 6.

**15240 β -Naginatene**

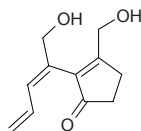
$C_{10}H_{14}O$ (150.22). Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 6.

**15241 Nakhsmyrin**

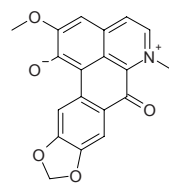
[119617-29-7] $C_{14}H_{12}O_4$ (244.25). Source: *Smyrniopsis aucheri*. Ref: 2701, 5502.

**15242 Nakienone A**

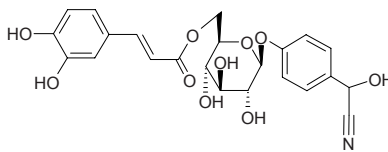
[161407-85-8] $C_{11}H_{14}O_3$ (194.23). Pharm: Cytotoxic (KB ED₅₀ = 5 μ g/mL, HCT116 ED₅₀ = 20 μ g/mL). Source: *Synechocytis* sp. Ref: 2600.

**15243 Nandazurine**

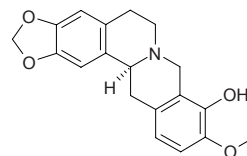
[49679-20-1] $C_{19}H_{13}NO_5$ (335.32). mp 250~251°C. Source: NAN TIAN ZHU GEN *Nandina domestica*, NAN TIAN ZHU GENG *Nandina domestica*. Ref: 6, 1521.

**15244 Nandinin**

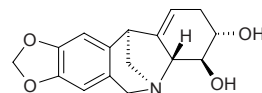
$C_{23}H_{23}NO_{10}$ (473.44). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2602.

**15245 Nandinine**

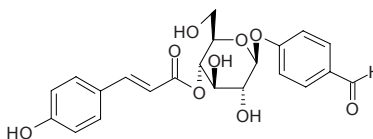
[572-76-9] $C_{19}H_{19}NO_4$ (325.37). mp 195~196°C, $[\alpha]_D = +303^\circ$ (CHCl₃), $[\alpha]_D = +298^\circ$ (EtOH). Source: NAN TIAN ZHU ZI *Nandina domestica*, NAN TIAN ZHU GEN *Nandina domestica*. Ref: 6, 1521.

**15246 Nangustine**

$C_{16}H_{17}NO_4$ (287.32). White solid, mp 261°C, $[\alpha]_D^{20} = -69.6^\circ$. Source: WU KE LAN XIA YE SHUI XIAN *Narcissus angustifolius*. Ref: 1978.

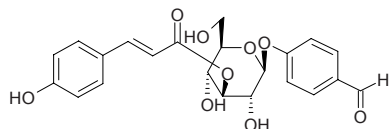
**15247 Nantenoside A**

$C_{22}H_{22}O_9$ (430.42). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2603.

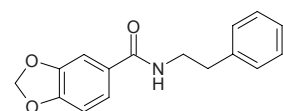


15248 Nantenoside B

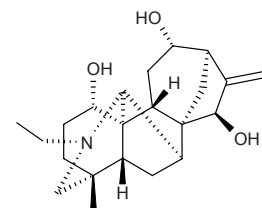
$C_{22}H_{22}O_9$ (430.42). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2603.

**15249 Nantoamide**

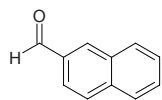
$C_{16}H_{15}NO_3$ (269.30). Colorless syrup. Pharm: Anti-HIV (inhibits HIV replication, H9 lymphocytic cells, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) > 25 $\mu\text{g}/\text{mL}$, EC_{50} no suppression, TI no suppression, control AZT, IC_{50} = 500 $\mu\text{g}/\text{mL}$, EC_{50} = 0.0007 $\mu\text{g}/\text{mL}$, TI = 710 000); cytotoxic (hmn cancer lines NUGC-3, IC_{50} > 20 $\mu\text{g}/\text{mL}$, hmn cancer lines HONE-1, IC_{50} > 20 $\mu\text{g}/\text{mL}$, hmn cancer lines A549, EC_{50} > 20 $\mu\text{g}/\text{mL}$, hmn cancer lines MCF7, EC_{50} > 20 $\mu\text{g}/\text{mL}$). Source: NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.

**15250 Napelline**

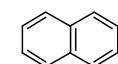
[5008-52-6] $C_{22}H_{33}NO_3$ (359.51). Crystals, $+1H_2O$, mp 117–118.5°C, $[\alpha]_D^{21} = -13^\circ$ (MeOH). Pharm: Antihypertensive (cat, brief action). Source: OU WU TOU *Aconitum napellus*, DUO GEN WU TOU *Aconitum karakolicum*. Ref: 658, 1521.

**15251 β -Naphthaldehyde**

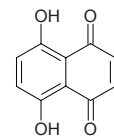
[66-99-9] $C_{11}H_8O$ (156.19). mp 59°C. Source: WU MU XIE *Diospyros ebenum*. Ref: 6.

**15252 Naphthalene**

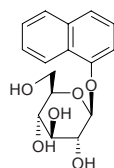
[91-20-3] $C_{10}H_8$ (128.18). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], XI XIN *Asarum sieboldii*. Ref: 2.

**15253 Naphthazarin**

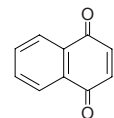
5,8-Dihydroxy-1,4-naphthoquinone [475-38-7] $C_{10}H_6O_4$ (190.16). Pharm: Contracts blood vessels (inhibits ACh-induced relaxation on intact thoracic aorta, $IC_{50} = (0.29 \pm 0.04) \mu\text{mol}/\text{L}$, 1,4-Naphthoquinone, $IC_{50} = (1.50 \pm 0.17) \mu\text{mol}/\text{L}$)^[4916]; molluscicide (toxic to shellfish). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana*, *Macrotomia euchroma* (root), XIN ZANG JIA ZI CAO *Arnebia euchroma* (root). Ref: 658, 4916.

**15254 1-Naphthol- β -D-glucopyranoside**

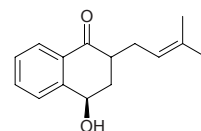
$C_{16}H_{18}O_6$ (306.32). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 2604.

**15255 1,4-Naphthoquinone**

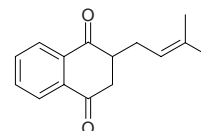
$C_{10}H_6O_2$ (158.16). Source: HU TAO REN *Juglans regia*, ZHI JIA HUA YE *Lawsonia inermis*. Ref: 2605, 2606.

**15256 Naphthoquinone I**

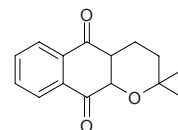
$C_{15}H_{18}O_2$ (230.31). Source: ZI MU *Catalpa ovata*. Ref: 6.

**15257 Naphthoquinone II**

$C_{15}H_{16}O_2$ (228.29). Source: ZI MU *Catalpa ovata*. Ref: 6.

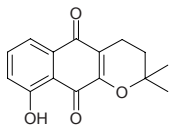
**15258 Naphthoquinone III**

$C_{15}H_{16}O_3$ (244.29). Source: ZI MU *Catalpa ovata*. Ref: 6.

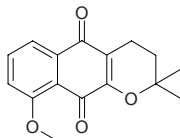


15259 Naphthoquinone IV

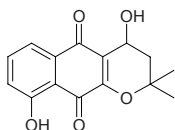
$C_{15}H_{14}O_4$ (258.28). Source: ZI MU *Catalpa ovata*. Ref: 6.

**15260 Naphthoquinone V**

$C_{16}H_{16}O_4$ (272.30). Source: ZI MU *Catalpa ovata*. Ref: 6.

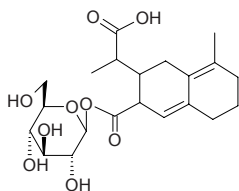
**15261 Naphthoquinone VI**

$C_{15}H_{14}O_5$ (274.28). Source: ZI MU *Catalpa ovata*. Ref: 6.

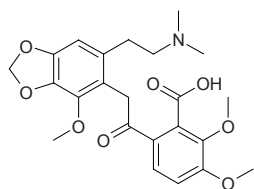
**15262 Napiferoside**

4,9-Dien-eudesmine-13,15-dicarboxylic acid-15- β -D-glucopyranoside

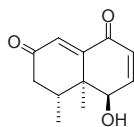
$C_{21}H_{30}O_9$ (426.47). Amorphous powder mp 176–178°C. Source: YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 854.

**15263 Narceine**

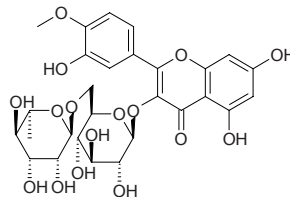
[131-28-2] $C_{23}H_{27}NO_8$ (445.47). mp 145.2°C. Pharm: Antitussive; antihypertensive; promotes intestinal motion; respiratory stimulant. Source: YING SU *Papaver somniferum*, YA PIAN *Papaver somniferum*. Ref: 6, 658.

**15264 Narchinol A**

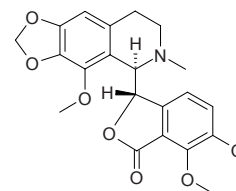
[38226-98-1] $C_{12}H_{14}O_3$ (206.24). Yellow Crystals (EtOAc), mp 146–148°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 2607.

**15265 Narcissin**

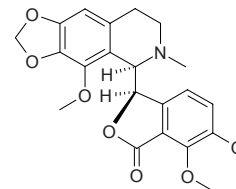
[604-80-8] $C_{28}H_{32}O_{16}$ (624.56). mp 174°C. Source: GAN CAO *Glycyrrhiza uralensis*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6, 231, 660.

**15266 α -Narcotine**

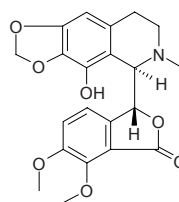
[128-62-1] $C_{22}H_{23}NO_7$ (413.43). mp 176°C. Pharm: Antispasmodic; non-addictive antitussive (used in treatment of paroxysmal cough); LD₅₀ (mus, iv) = 83mg/kg. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], TIAN CHENG *Citrus sinensis*, YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658, 660.

**15267 β -Narcotine**

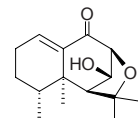
$C_{22}H_{23}NO_7$ (413.43). Source: YA PIAN *Papaver somniferum*. Ref: 660.

**15268 Narcotoline**

[521-40-4] $C_{21}H_{21}NO_7$ (399.40). mp 202°C. Pharm: Antispasmodic; respiratory stimulant. Source: YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658.

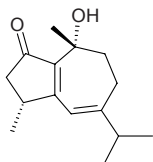
**15269 Nardofuran**

[42438-76-6] $C_{15}H_{22}O_3$ (250.34). Oil. Source: GAN SONG *Nardostachys chinensis*. Ref: 2608.

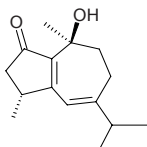


15270 Nardoguaianone J

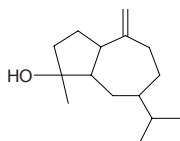
(4*R*,10*R*)-10-Hydroxyguaia-1(5),6-dien-2-one C₁₅H₂₂O₂ (234.34). Colorless oil, $[\alpha]_D^{26} = -34.1^\circ$ ($c = 0.26$, MeOH). Source: GAN SONG *Nardostachys chinensis*. Ref: 2007.

**15271 Nardoguaianone K**

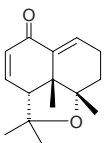
(4*R*,10*S*)-10-Hydroxyguaia-1(5),6-dien-2-one C₁₅H₂₂O₂ (234.34). Colorless oil, $[\alpha]_D^{26} = +210.3^\circ$ ($c = 0.53$, MeOH). Source: GAN SONG *Nardostachys chinensis*. Ref: 2007.

**15272 Nardol**

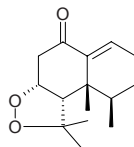
[6090-27-3] C₁₅H₂₆O (222.37). bp 120~125°C/0.5mmHg. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**15273 Nardonoxide**

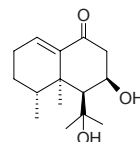
[111514-48-8] C₁₅H₂₀O₂ (232.33). Crystals (MeOH), mp 62~64°C, $[\alpha]_D^{20} = -85^\circ$ ($c = 0.65$, CHCl₃). Source: GAN SONG *Nardostachys chinensis*. Ref: 2609.

**15274 Nardosinone**

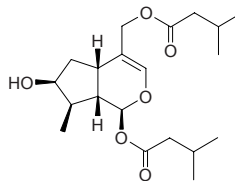
C₁₅H₂₂O₃ (250.34). mp 108~110°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**15275 Nardosinonediol**

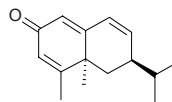
[20489-11-6] C₁₅H₂₄O₃ (252.36). Crystals (MeOH aq.), mp 141~143°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 2608.

**15276 Nardostachin**

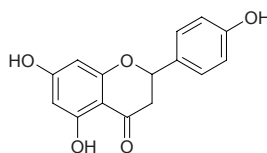
[114687-82-0] C₂₁H₃₂O₆ (368.47). Yellow oil, $[\alpha]_D = -80.9^\circ$ ($c = 0.4$, CHCl₃); $[\alpha]_D^{23} = -80.9^\circ$ ($c = 0.4$, MeOH). Source: GAN SONG *Nardostachys chinensis*, BIAN DOU CAI YE BAI JIANG *Patrinia saniculaefolia* (whole herb). Ref: 2610, 4341.

**15277 Nardostachone**

C₁₅H₂₀O (216.33). bp 130~135°C/0.09mmHg. Source: GAN SONG *Nardostachys chinensis*. Ref: 6, 2781.

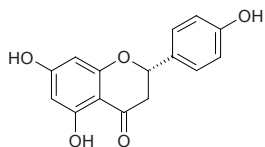
**15278 (±)-Naringenin**

C₁₅H₁₂O₅ (272.26). Pharm: Vasorelaxant; antioxidant[†]; cyclonucleotide phosphodiesterase inhibitor. Source: *Citrus* spp. (fruit). Ref: 3371.

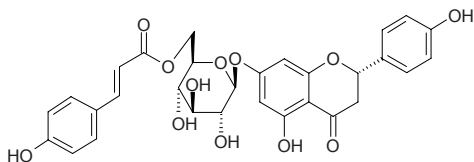


15279 Naringenin

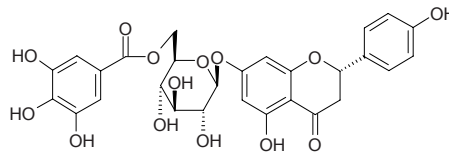
5,7,4'-Trihydroxyflavanone; (2*S*)-Naringenin [480-41-1] C₁₅H₁₂O₅ (272.26). mp 251°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus dysenteriae* and *B. Typhosus*); antineoplastic (rat L₁₂₁₀ and sarcoma); cytotoxic (HSC-2 cells, CC₅₀ = 0.55mmol/L; HGF, CC₅₀ > 0.74mmol/L)^[3025]; antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 10µg, control Miconazole, MA = 1.0µg; *Cladosporium sphaerospermum*, MA = 5.0µg, Miconazole, MA = 1.0µg)^[3440]; antihepatotoxic; anti-inflammatory (rat, wool-ball model, 20mg/(kg·d), ip); antispasmodic; choleric (bile secretion promotor); induces nodulin gene expression of symbion in *Rhizobium leguminosarum* and *Pisum sativum*; antioxidant; platelet aggregation inhibitor; 5-HT inhibitor; histidine decarboxylase inhibitor; anti-inflammatory (macrophages, COX-2 inhibitor, inhibits COX-2 expression)^[4415]; passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β-hexosaminidase release from RBL-2H3 cells, IC₅₀ = (29±1)µmol/L, control Azelastine, IC₅₀ = (35±2)µmol/L; PCA reaction inhibitor, 5mg/kg ip, InRt = (70±2)%^[5041]; aromatase inhibitor (*in vitro*, IC₅₀ = 17µmol/L; control Aminoglutethimide, IC₅₀ = 6.4µmol/L)^[3090]. **Source:** CU YE MAI HU JIAO *Piper crassinervium*, DU XIAN ZI *Anacardium occidentale*, GOU JI *Cudrania cochinchinensis* (root: yield = 0.0010%dw)^[3025], GOU SHU *Broussonetia papyrifera*^[3090], HU LU BA *Trigonella foenum-graecum*, HUA ZHOU YOU *Citrus grandis* var. *Tomentosa* (closing ripe exocarp: mean content = 0.044%)^[5508], LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb: yield = 0.00090%dw)^[4626], PU ER CHA *Camellia sinensis* var. *assamica*, RI BEN YING HUA *Prunus yedoensis*, SHA SHENG LA JU *Helichrysum arenarium*, SHAN TAO JING BAI PI *Prunus davidiana*, SHAN TAO ZHI *Prunus davidiana*, SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00007%dw)^[4708], TAO HUA *Prunus persica*, TAO JING BAI PI *Prunus persica*, TAO ZHI *Prunus persica*, TAOYE *Prunus persica*, WU HE MI JU *Citrus unshiu* (pericarp), WU MEI *Prunus mume*, XIA YE XIANG PU *Typha angustifolia*, YOU⁽⁴⁾ *Citrus grandis* (closing ripe exocarp: mean content = 0.043%)^[5508], YOU GAN YE *Phyllanthus emblica* (branch and leaf), *Artemisia* sp., *Dahlia* sp., occurs in many plants. **Ref:** 4, 6, 581, 615, 658, 660, 3025, 3090, 3440, 4205, 4415, 4626, 4708, 5041, 5508.

**15280 Naringenin 7-O-(6''-O-trans-p-coumaroyl)-glucoside**

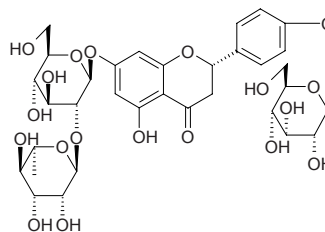
C₃₀H₂₈O₁₂ (580.55). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**15281 Naringenin 7-O-(6''-O-galloyl)-glucoside**

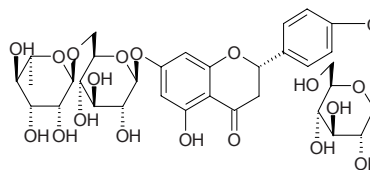
C₂₈H₂₆O₁₄ (586.51). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**15282 Naringenin-4'-glucoside-7-neohesperidoside**

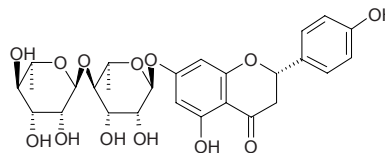
C₃₃H₄₂O₁₉ (742.69). **Source:** YOU⁽⁴⁾ *Citrus grandis*. **Ref:** 6.

**15283 Naringenin-4'-glucoside-7-rutinoside**

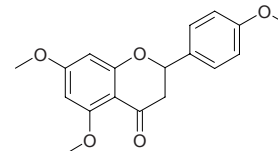
C₃₃H₄₂O₁₉ (742.69). **Source:** TIAN CHENG *Citrus sinensis*. **Ref:** 6.

**15284 Naringenin-7-O-α-L-rhamnosyl(1→4)-rhamnoside**

C₂₇H₃₂O₁₃ (564.55). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 2611.

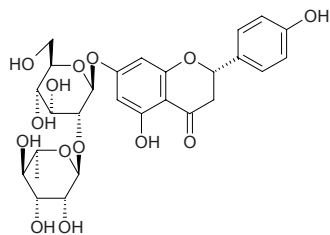
**15285 Naringenin trimethyl ether**

5,7,4'-Trimethoxyflavanone C₁₈H₁₈O₅ (314.34). Prisms (*n*-hexane–EtOAc), mp 124°C, mp 123.5~124.5°C. **Source:** CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). **Ref:** 5096.

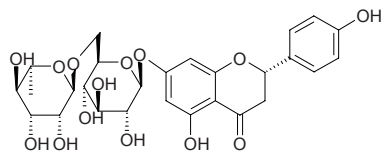


15286 Naringin

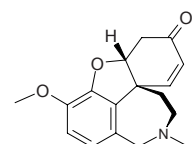
Aurantiin [10236-47-2] $C_{27}H_{32}O_{14}$ (580.55). mp 82°C, 171°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus dysenteriae* and *B. typhosus*); anti-inflammatory (mus, ip, swollen foot caused by formaldehyde, ED = 100mg/kg, rat, sc, ED = 100mg/kg); antiviral (vesicular stomatitis virus, 200 μ g/mL); bitter principle; aldose reductase inhibitor (rat eye lens, 100 μ mol/L, InRt = 80%); passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β -hexosaminidase release from RBL-2H3 cells, IC_{50} > 500 μ mol/L, control Azelastine, IC_{50} = (35 \pm 2) μ mol/L; PCA reaction inhibitor, 20mg/kg orl, InRt = (79.2 \pm 7.4)%^[5041]). **Source:** GOU JU *Poncirus trifoliata*, GOU JU ZHI KE *Poncirus trifoliata*, GOU JU ZHI SHI *Poncirus trifoliata*, GU SUI BU *Drynaria fortunei* (rhizome: content scope = 0.179%–0.540%^[5508]), GUAN ZHONG *Dryopteris crassirhizoma*, HUA ZHOU YOU *Citrus grandis* var. *Tomentosa* (closing ripe exocarp: content = 1.55%^[5508]), JU PI *Citrus reticulata* (closing ripe exocarp: content = 0.32%^[5508]), NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, PU TAO YOU *Citrus paradisi*, QIU SUI QIAN JIN BA *Flemingia strobilifera*, TU XIANG RU *Origanum vulgare*, WU HE MI JU *Citrus unshiu* (pericarp), YOU⁽⁴⁾ *Citrus grandis* (closing ripe exocarp: mean content = 3.12%^[5508]), ZHI KE *Citrus aurantium* (closing ripe exocarp: content = 6.98%^[5508]), ZHI SHI *Citrus aurantium* (closing ripe exocarp: content = 1.05%^[5508]), ZHU LUAN *Citrus decumana*, *Adiantum* sp. **Ref:** 2, 4, 658, 660, 5041, 5501, 5508.

**15287 Narirutin**

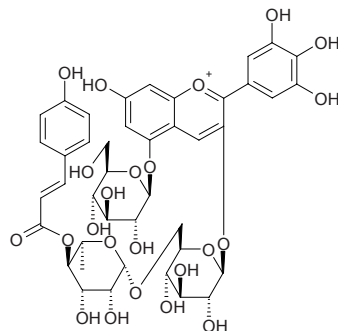
[14259-46-2] $C_{27}H_{32}O_{14}$ (580.55). mp 160–165°C. **Pharm:** Stimulates egg deposition (*Papilio xuthus*). **Source:** TIAN CHENG *Citrus sinensis*, *Citrus* sp. **Ref:** 6, 658.

**15288 Narwedine**

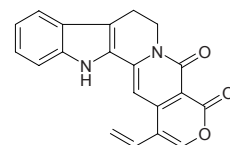
[510-77-0] $C_{17}H_{19}NO_3$ (285.36). **Pharm:** Enhances amplitude of contraction and reduces frequency of heart beat; enhances respiration. **Source:** GUANG XI SHI SUAN *Lycoris guangxiensis*, XUE HUA LIAN *Galanthus nivalis*. **Ref:** 658.

**15289 Nasunin**

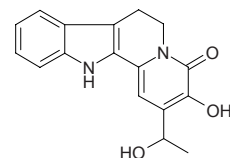
Violanin; Delphanin [28463-30-1] $C_{42}H_{47}O_{23}$ (919.83). mp 179–180°C. **Source:** QIE ZI *Solanum melongena*. **Ref:** 6.

**15290 Nauclealine A**

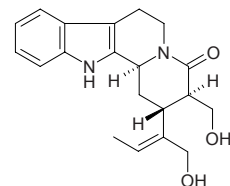
3,14,15,16,17,20-Hexadehydro-16-ethenylxayohimban-19,21-dione $C_{20}H_{14}N_2O_3$ (330.35). Yellowish amorphous solid, mp 267–268°C (MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

**15291 Nauclealine B**

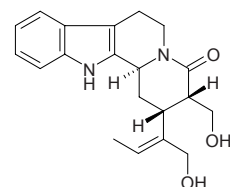
Indolo[2,3-*a*]quinolizine-2-(1-hydroxyethyl)-3-hydroxy-4,6,7,12-tetrahydro-4-one $C_{17}H_{16}N_2O_3$ (296.33). Yellowish amorphous solid, mp 222–223°C (MeOH), $[\alpha]_D^{22} = -11.4^\circ$ ($c = 0.07$, MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

**15292 Naucleamide A**

$C_{20}H_{24}N_2O_3$ (340.43). **Source:** KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.0016%). **Ref:** 4303.

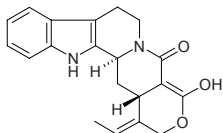
**15293 Naucleamide B**

$C_{20}H_{24}N_2O_3$ (340.43). **Source:** KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.0016%). **Ref:** 4303.

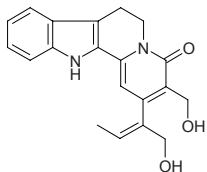


15294 Naucleamide C

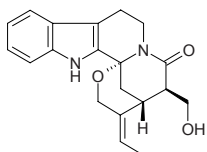
$C_{20}H_{20}N_2O_3$ (336.39). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0012%). Ref: 4303.

**15295 Naucleamide D**

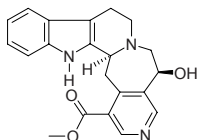
$C_{20}H_{20}N_2O_3$ (336.39). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0012%). Ref: 4303.

**15296 Naucleamide E**

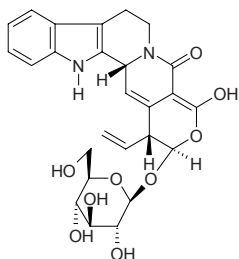
$C_{20}H_{22}N_2O_3$ (338.41). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0008%). Ref: 4303.

**15297 Nauclechine**

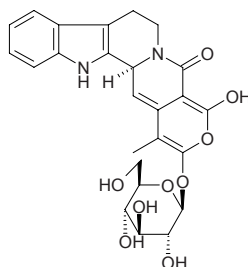
[38940-73-7] $C_{21}H_{21}N_3O_3$ (363.42). Crystals (MeOH), mp = 108–114°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*, KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15298 Nauclecoside**

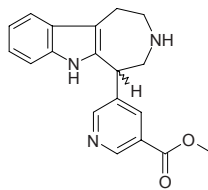
[121880-11-3] $C_{26}H_{28}N_2O_9$ (512.52). Colorless granular crystals, mp > 310°C, $[\alpha]_D^{25} = -149^\circ$ ($c = 0.1$, 50% EtOH). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. Source: DAN MU *Nauclea officinalis*. Ref: 118, 2178.

**15299 Nauclecosidine**

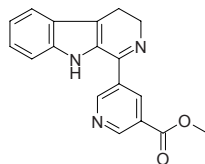
[121880-13-5] $C_{25}H_{26}N_2O_9$ (498.49). Acicular crystals, mp 200–202°C. Source: DAN MU *Nauclea officinalis*. Ref: 118, 1521.

**15300 Nauclederine**

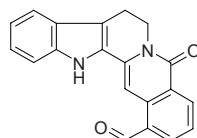
[38940-72-6] $C_{19}H_{19}N_3O_2$ (321.38). mp 102–124°C, $[\alpha]_D^{25} = +0^\circ$ ($c = 3.3$, $CHCl_3$). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15301 Naucedine**

[26238-84-6] $C_{18}H_{15}N_3O_2$ (305.34). Yellowish needles (MeOH). mp 84–90°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15302 Naucleficine**

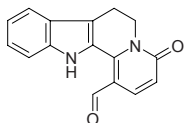
[96400-54-3] $C_{20}H_{14}N_2O_2$ (314.35). mp 290–291°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DAN MU *Nauclea officinalis*. Ref: 2178, 1521.



15303 Nauclefidine

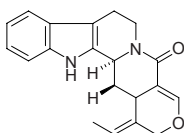
[96400-52-1] C₁₆H₁₂N₂O₂ (264.29). Orange-yellow crystals, mp 307~309°C.

Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

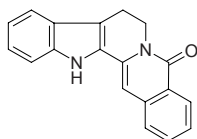
**15304 Nauclefiline**

[102358-19-0] C₂₀H₂₀N₂O₂ (320.39). Colorless acicular crystals, mp 315~317°C,

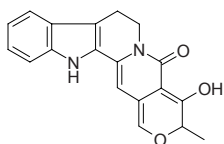
[α]_D²⁰ = -281 (c = 0.1, ethanol). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 41, 2178, 1521.

**15305 Nauclefine**

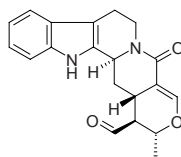
[57103-51-2] C₁₉H₁₄N₂O (286.34). mp 285~290°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** KUAN YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**15306 Nauclefoline**

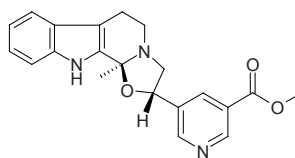
[96400-51-0] C₁₉H₁₆N₂O₃ (320.35). mp 270~272°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

**15307 Naucleidinal**

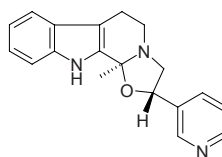
[77513-45-2] C₂₀H₂₀N₂O₃ (336.39). mp 203~205°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

**15308 Naucleonidine**

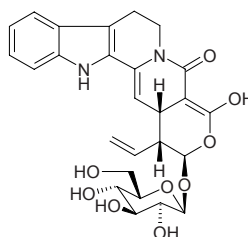
C₂₁H₂₁N₃O₃ (363.42). mp 233~240°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** BO SHI WU TAN *Nauclea pobequinii*. **Ref:** 2178, 1521.

**15309 Naucleonine**

C₁₉H₁₉N₃O (305.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DI SHI WU TAN *Nauclea diderrichii*. **Ref:** 2178, 1521.

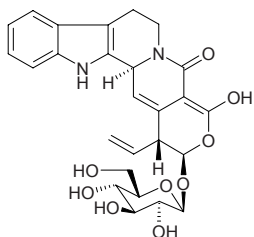
**15310 Naucleoside A**

3,14,19,20-Tetrahydro-16-ethenyl-17-(β-D-glucopyranosyloxy)-19-hydroxy-(15β,16α,17β)-oxayohimban-21-one C₂₆H₂₈N₂O₉ (512.52). Orange-yellow amorphous solid, mp 171~172°C (MeOH), [α]_D²² = 48.6° (c = 0.15, MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

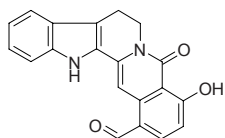


15311 Naucleoside B

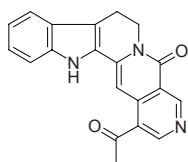
14,15,19,20-Tetrahydro-16-ethenyl-17-(β -D-glucopyranosyloxy)-19-hydroxy- γ -(3 α ,16 α ,17 β)-oxayohimban-21-one C₂₆H₂₈N₂O₉ (512.52). Orange-yellow amorphous solid, mp 189~190°C (MeOH), [α]_D²² = -58.2° (c = 0.15, MeOH). Source: DONG FANG WU TAN *Nauclea orientalis* (bark). Ref: 3074.

**15312 Nauclequiniine**

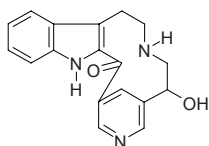
C₂₀H₁₄N₂O₃ (330.35). mp 291~292°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: BO SHI WU TAN *Nauclea pobequini*. Ref: 2178.

**15313 Nauclefine**

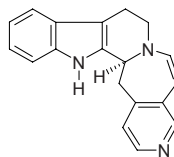
[54698-29-2] C₂₀H₁₅N₃O₂ (329.36). mp 310°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15314 Nauclexine**

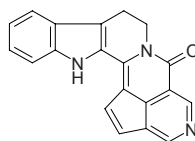
[38940-74-8] C₁₈H₁₇N₃O₂ (307.36). Needles (CH₂Cl₂-MeOH), mp 229~232°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15315 Naufoline**

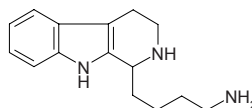
[59785-75-0] C₁₉H₁₇N₃ (287.37). Crystals (MeOH), mp 252°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15316 Naulafine**

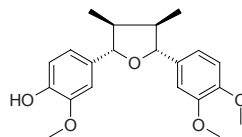
[70503-66-1] C₂₀H₁₃N₃O (311.35). mp 300°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178.

**15317 Nazlinin**

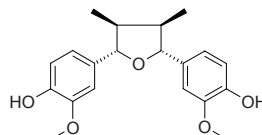
[136945-81-8] C₁₅H₂₁O₃ (243.35). White amorphous powder. Pharm: Vascular relaxant and vasoconstrictor (rbt, assay by aortal ring with endodermis, when dose less than 40nmol relaxes blood vessel, when dose over 40nmol contracts blood vessel, for assay without endodermis relaxing activity disappears). Source: DONG QIANG *Nitraria schoberi*. Ref: 1521, 2612.

**15318 (-)-Nectandrin A**

[74683-15-1] C₂₁H₂₆O₅ (358.44). Colorless oleaginous substance, [α]_D²⁵ = -28° (CHCl₃). Source: DUAN JU *Piper mullesua*. Ref: 424.

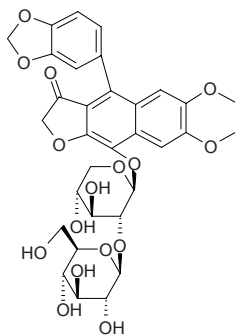
**15319 Nectandrin B**

[74683-16-2] C₂₀H₂₄O₅ (344.41). Colorless oleaginous substance. Pharm: Immunosuppressant (hmn, inhibits mitogen-induced hyperplasia of lymphocyte in peripheral blood, IC₅₀ = 3.30 μ g/mL); 5-lipoxygenase inhibitor (used in treatment of diseases due to metabolic imbalance of arachidonic acid); aldose reductase inhibitor. Source: DUAN JU *Piper mullesua*. Ref: 424, 1669, 1670.

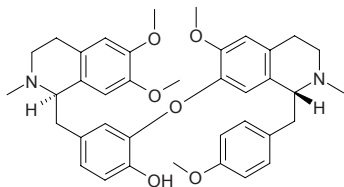


15320 Neesiinoside A

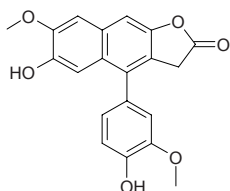
$C_{32}H_{34}O_{16}$ (674.62). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.027%dw). Ref: 4712.

**15321 Neferine**

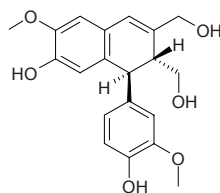
[2292-16-2] $C_{38}H_{44}N_2O_6$ (624.78). Amorphous loose yellowish powder (diethyl ether), mp 59–61°C, $[\alpha]_D^{24} = -44.1^\circ$ ($c = 0.301$, chloroform). Pharm: Antiarrhythmic; antihypertensive (vasodilation, independent of vascular endothelium); calcium antagonist (10–40 $\mu\text{mol/L}$, inhibits the increase of Ca^{2+} concentration caused by ET-1); inhibits cardiac muscles; platelet aggregation inhibitor (inhibits calcium entry and releases in platelets); inhibits promotor of cancer. Source: LIAN ZI XIN *Nelumbo nucifera* (dried plumule and radicle in seed: mean content of 7 origins = 0.251%^[5508]). Ref: 6, 900, 5501, 5508.

**15322 Negundin A**

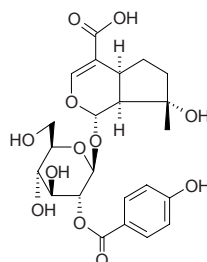
$C_{20}H_{16}O_6$ (352.35). Amorphous white solid, mp 125°C. Pharm: Lipoxygenase inhibitor (*in vitro*, $\text{IC}_{50} = (99.5 \pm 2.0) \mu\text{mol/L}$, control Baicalein, $\text{IC}_{50} = (22.5 \pm 0.3) \mu\text{mol/L}$); AChE inhibitor (*in vitro*, $\text{IC}_{50} > 300 \mu\text{mol/L}$, control Galanthamine, $\text{IC}_{50} = 0.5 \mu\text{mol/L}$); butyrylcholinesterase inhibitor (*in vitro*, $\text{IC}_{50} = (85.0 \pm 0.8) \mu\text{mol/L}$, control Galanthamine, $\text{IC}_{50} = (8.7 \pm 0.1) \mu\text{mol/L}$). Source: HUANG JING GEN *Vitex negundo*. Ref: 2555.

**15323 Negundin B**

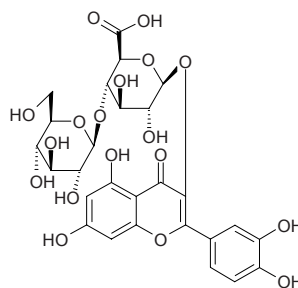
$C_{20}H_{22}O_6$ (358.39). White amorphous solid. $[\alpha]_D^{25} = -56^\circ$ ($c = 0.11$, MeOH). Pharm: Lipoxygenase inhibitor (*in vitro*, $\text{IC}_{50} = (6.25 \pm 0.50) \mu\text{mol/L}$, control Baicalein, $\text{IC}_{50} = (22.5 \pm 0.3) \mu\text{mol/L}$); AChE inhibitor (*in vitro*, $\text{IC}_{50} = (254 \pm 1) \mu\text{mol/L}$, control Galanthamine, $\text{IC}_{50} = 0.5 \mu\text{mol/L}$); butyrylcholinesterase inhibitor (*in vitro*, $\text{IC}_{50} = (194.0 \pm 4.4) \mu\text{mol/L}$, control Galanthamine, $\text{IC}_{50} = (8.7 \pm 0.1) \mu\text{mol/L}$). Source: HUANG JING GEN *Vitex negundo*. Ref: 2555.

**15324 Negundoside**

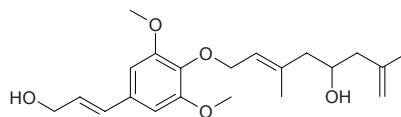
[82451-20-5] $C_{23}H_{28}O_{12}$ (496.47). Needles (MeOH), mp 160–162°C, $[\alpha]_D^{24} = -117.6^\circ$ ($c = 3$, MeOH). Source: HUANG JING YE *Vitex negundo*. Ref: 1521.

**15325 Nelumboside**

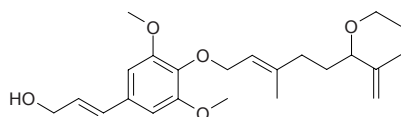
$C_{27}H_{28}O_{18}$ (640.51). mp 174–175°C. Source: HE YE *Nelumbo nucifera*, HUI XIANG JING YE *Foeniculum vulgare*. Ref: 6.

**15326 Nelumul B**

4-*O*-[(2*E*)-3,7-Dimethyl-2,7-octadien-5-yl]sinapyl alcohol $C_{21}H_{30}O_5$ (362.47). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.00070%dw). Ref: 4632.

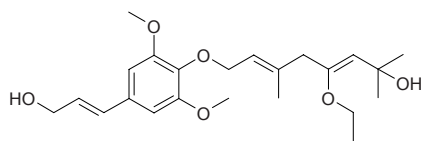
**15327 Nelumul C**

4-*O*-[(2*E*)-3,7-Dimethyl-6-ethoxy-2,7-octadiene]-sinapyl alcohol $C_{23}H_{34}O_5$ (390.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.0011%dw). Ref: 4632.

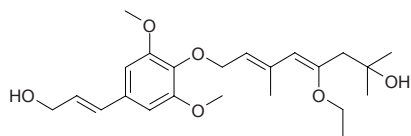


15328 Nelumol D

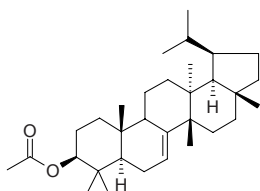
4-*O*-[(2*E*,5*E*)-3,7-Dimethyl-5-ethoxy-2,5-octadiene-7-ol]-sinapyl alcohol
 $C_{23}H_{34}O_6$ (406.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root):
 yield = 0.00085%dw). Ref: 4632.

**15329 Nelumol E**

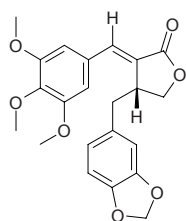
4-*O*-[(2*E*,4*E*)-3,7-Dimethyl-5-ethoxy-2,4-octadien-7-ol]-sinapyl alcohol
 $C_{23}H_{34}O_6$ (406.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root):
 yield = 0.00075%dw). Ref: 4632.

**15330 Nematocyphol acetate**

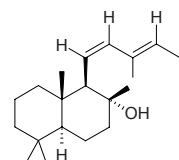
$C_{32}H_{52}O_2$ (468.77). White lamellar crystals, mp 264–265°C, $[\alpha]_D^{21} = 0^\circ$ ($c = 0.049$, chloroform). Source: DA LANG DU *Euphorbia nematocypha*. Ref: 232.

**15331 Nemosin**

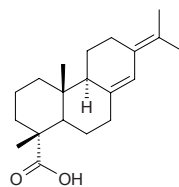
[17187-79-0] $C_{22}H_{22}O_7$ (398.42). Pharm: Cytotoxic (hmn peripheral blood T cells, dose = 2.0 μg/mL, T cell survival rate = 69%); immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0 μg/mL, InRt = 53%). Source: HONG CHAI HU *Bupleurum scorzonerifolium* (root). Ref: 3498.

**15332 cis-Neoabienol**

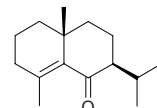
[25578-83-0] $C_{20}H_{34}O$ (290.49). $[\alpha]_D^{20} = +12.6^\circ$ ($c = 3.8$, $CHCl_3$). Source: HAI SONG ZI *Pinus koraiensis*, XI BO LI YA LENG SHAN *Abies sibirica*. Ref: 6, 2613.

**15333 Neoabietic acid**

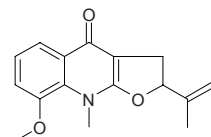
8(14),13(15)-Abietadien-18-oic acid [471-77-2] $C_{20}H_{30}O_2$ (302.46). mp 167–169°C, $[\alpha]_D^{24} = +159^\circ$. Pharm: Platelet aggregation inhibitor (rbt, due to ADP and calcium); topical protectant. Source: SONG XIANG *Pinus massoniana*. Ref: 900.

**15334 Neoacolamone**

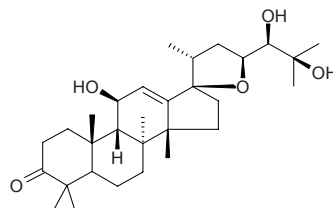
4-Eudesmen-6-one [1209-63-8] $C_{15}H_{24}O$ (220.36). Oil, $[\alpha]_D^{25} = +69^\circ$ ($c = 0.22$, $CHCl_3$). Source: JI JI *Chloranthus serratus*. Ref: 1521, 1540.

**15335 Neoacutifolin**

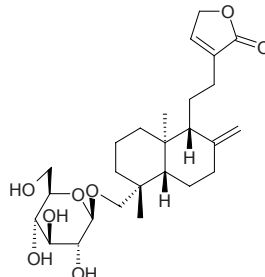
$C_{16}H_{17}NO_3$ (271.32). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**15336 Neoalisol**

$C_{30}H_{48}O_5$ (488.71). Colorless powder, mp 211°C. Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. Ref: 2202.

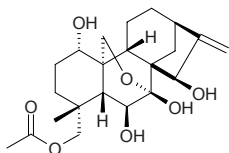
**15337 Neoandrographolide**

[27215-14-1] $C_{26}H_{40}O_8$ (480.60). mp 168–169°C. Pharm: Antibacterial and antipyretic (rbt infected by *Diplococcus pneumoniae* or hemolytic β-streptococcus); low toxin (mus, orl, max. tolerance > 1.5g/kg). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (dried aerial parts: mean content = 0.717%^[5508]). Ref: 2, 658, 5508.

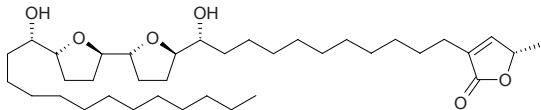


15338 Neoangustifolin

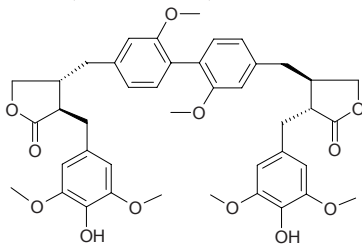
$C_{22}H_{32}O_7$ (408.50). mp 195~197°C. Source: SHAN DI XIANG CHA CAI *Isodon oresbia*. Ref: 4067.

**15339 Neoannonin**

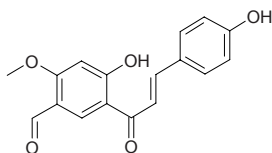
$C_{37}H_{66}O_6$ (606.93). Colorless oil, $[\alpha]_D^{25} = +3.2^\circ$ ($c = 0.51$, $CHCl_3$). Pharm: Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.064$ ng/mL, control Adriamycin, $IC_{50} = 0.241$ μg/mL; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.073$ ng/mL, Adriamycin, $IC_{50} = 0.450$ μg/mL). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 5377.

**15340 Neoarctin B**

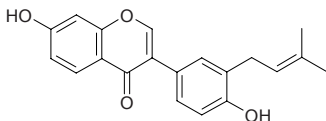
$C_{42}H_{46}O_{12}$ (742.83). Yellowish amorphous powder, mp 102.0~103.5°C, $[\alpha]_D^{15} = -46.86^\circ$ ($c = 0.083$, $CHCl_3$). Source: NIU BANG ZI *Arctium lappa*. Ref: 288.

**15341 Neobavachalcone**

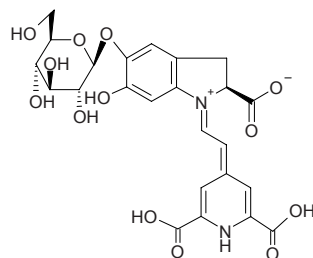
[65621-10-5] $C_{17}H_{14}O_5$ (298.30). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2, 545.

**15342 Neobavaisoflavone**

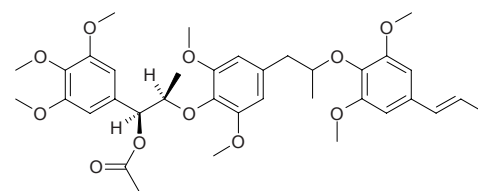
7,4'-Dihydroxy-3'-γ,γ-dimethylallyl isoflavone [41060-15-5] $C_{20}H_{18}O_4$ (322.36). Pharm: Antibacterial (*Escherichia coli*, MIA = 0.50μg, control Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.10μg, Chloramphenicol, MIA = 0.0001μg; *Bacillus subtilis*, MIA = 0.10μg, Chloramphenicol, MIA = 0.0001μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.02μg, control Miconazole, MIA = 0.0001μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.5μg, $IC_{50} = 671$ μg/mL; control Quercetin, MIA < 0.05μg, $IC_{50} = 7$ μg/mL, Gallic acid, MIA < 0.05μg, $IC_{50} = 4$ μg/mL; Ascorbic acid, MIA < 0.10μg, $IC_{50} = 18$ μg/mL)^[5247]. Source: BU GU ZHI *Psoralea corylifolia*, JI KUAN CI TONG *Erythrina latissima* (stem wood). Ref: 2, 545, 5247.

**15343 Neobetatin**

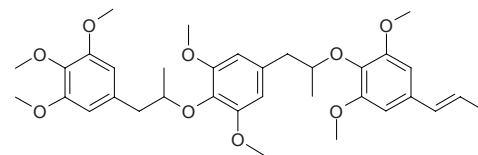
[71199-29-6] $C_{24}H_{24}N_2O_{13}$ (548.46). Source: XIE ZHUA LAN *Schlumbergera truncata*. Ref: 2614.

**15344 Neobonaspectin A**

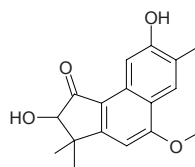
$C_{36}H_{46}O_{11}$ (654.76). Oil, $[\alpha]_D^{20} = +5.3^\circ$ ($c = 0.23$, $CHCl_3$). Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**15345 Neobonaspectin B**

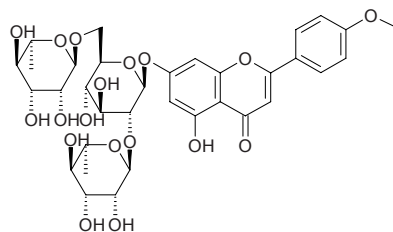
$C_{34}H_{44}O_9$ (596.72). Oil. Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**15346 Neoboutonin**

$C_{17}H_{18}O_4$ (286.33). Pale yellow crystals (hexane-EtOAc), mp 277~278°C, $[\alpha]_D^{20} = -41^\circ$ ($c = 0.2$, MeOH). Source: *Neoboutonia glabrescens*. Ref: 3441.

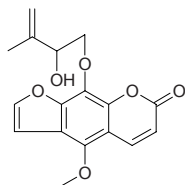
**15347 Neobudofficide**

5,7-Dihydroxy-4'-methoxyflavone-7-O-α-L-rhamno-pyranosyl-(1→2)-[α-L-rhamnopyranosyl-(1→6)]-β-D-glucopyranoside $C_{34}H_{42}O_{18}$ (738.70). Yellowish powder, mp 180~182°C. Source: MI MENG HUA *Buddleja officinalis*. Ref: 369.

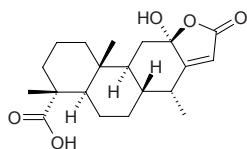


15348 Neobyakangelicol

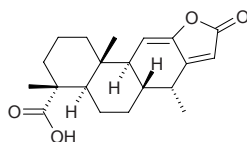
[35214-82-5] C₁₇H₁₆O₆ (316.31). mp 106–107°C. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], YU JU *Ptelea trifoliata*, HANG BAI ZHI *Angelica taiwaniana*. Ref: 2, 1521.

**15349 Neocaesalpin H**

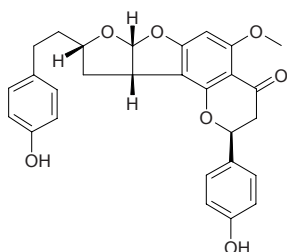
C₂₀H₂₈O₅ (348.44). Colorless needles, mp 255–256°C, [α]_D²⁵ = -73.2° (c = 0.101, MeOH). Source: CI GUO SU MU *Caesalpinia crista* (leaf). Ref: 4474.

**15350 Neocaesalpin I**

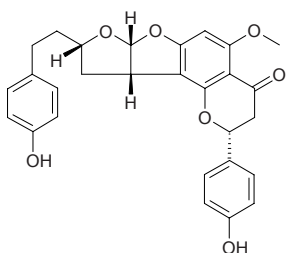
C₂₀H₂₆O₄ (330.43). Colorless needles, mp > 260°C, [α]_D²⁵ = +27.7° (c = 0.098, MeOH). Source: CI GUO SU MU *Caesalpinia crista* (leaf). Ref: 4474.

**15351 Neocalyxin A**

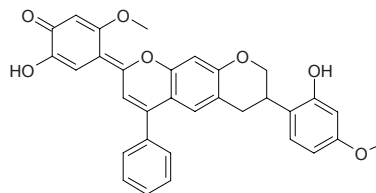
C₂₈H₂₆O₇ (474.52). Pharm: Cytotoxic (Colon26-L5, ED₅₀ > 100 μmol/L; HT1080, ED₅₀ = 10.7 μmol/L; control Curcumin, Colon26-L5, ED₅₀ = 23.2 μmol/L; HT1080, ED₅₀ = 23.4 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000022%). Ref: 3035.

**15352 Neocalyxin B**

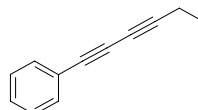
C₂₈H₂₆O₇ (474.52). Pharm: Cytotoxic (Colon26-L5, ED₅₀ = 78.0 μmol/L; HT1080, ED₅₀ = 20.2 μmol/L; control Curcumin, Colon26-L5, ED₅₀ = 23.2 μmol/L; HT1080, ED₅₀ = 23.4 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000022%). Ref: 3035.

**15353 Neocandenatone**

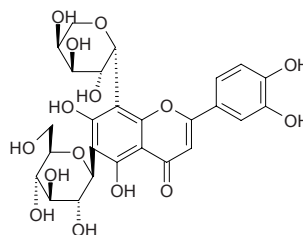
Vestitol[6→9";7O→7"]obtusaquinone C₃₂H₂₆O₇ (522.56). Purple amorphous powder. Source: JU HUA HUANG TAN *Dalbergia congestiflora* (heart wood). Ref: 3791.

**15354 Neocapillene**

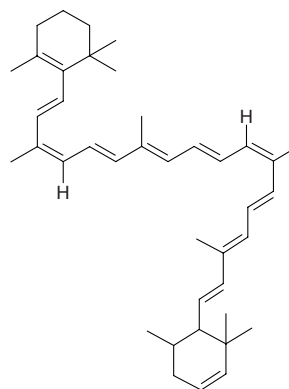
1-Phenyl-1,3-hexadiyne [10508-66-4] C₁₂H₁₀ (154.21). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**15355 Neocarlinoside**

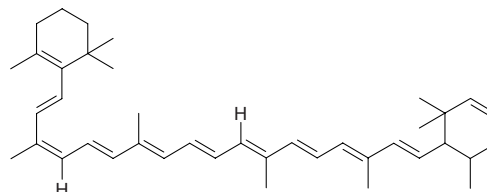
[83151-89-7] C₂₆H₂₈O₁₅ (580.50). Pharm: Insect phagostimulant (*Plant hoppers*). Source: JING MI *Oryza sativa*. Ref: 658.

**15356 Neo-β-carotene B**

C₄₀H₅₆ (536.89). Source: BO CAI *Spinacia oleracea*. Ref: 6.

**15357 Neo-β-carotene U**

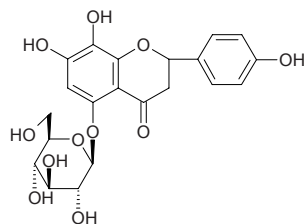
C₄₀H₅₆ (536.89). Source: BO CAI *Spinacia oleracea*. Ref: 2615.



15358 Neocarthamin

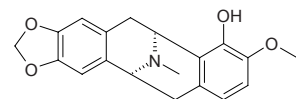
Isocarthamin C₂₁H₂₂O₁₁ (450.40). Source: HONG HUA *Carthamus tinctorius*.

Ref: 2.

**15359 Neocaryachine**

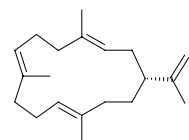
C₁₉H₁₉NO₄ (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (wood).

Ref: 3092.

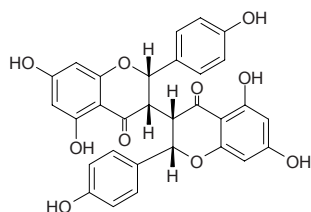
**15360 Neocembrene**

Cembrene A [31570-39-5] C₂₀H₃₂ (272.48). Pharm: Pheromone of

Nasutitermis exitiosus (for tracking). Source: XI BO LI YA YUN SHAN *Picea obovata*. Ref: 658, 1521.

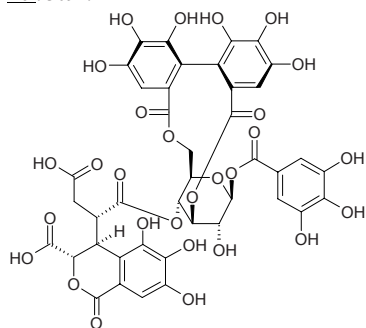
**15361 Neochamaejasmin A**

Neochamaejasmin A [90411-13-5] C₃₀H₂₂O₁₀ (542.50). mp 287°C (dec), [α]_D = +129° (c = 1.0, ethanol). Pharm: Inhibits promotor of cancer (inhibits teleocidin activity)^[900]; antimitotic and antifungal (*Pyricularia oryzae*, 200µg/mL, strong inhibition, 400µg/mL, complete inhibition)^[4476]. Source: LANG DU *Stellera chamaejasme*. Ref: 900, 4476.

**15362 Neochebulagic acid**

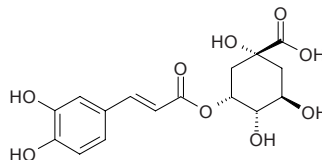
C₄₁H₃₂O₂₈ (972.70). Source: AN MO LE *Phyllanthus emblica* (leaf, branch).

Ref: 3094.

**15363 Neochlorogenic acid**

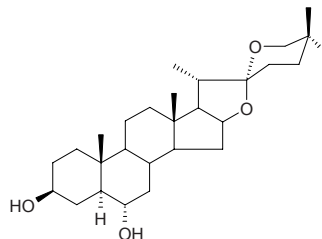
5-O-Caffeoylquinic acid [906-33-2] C₁₆H₁₈O₉ (354.32). mp 218~219°C.

Source: BIAN YE TIE XIAN JUE *Adiantum caudatum*, DA CHE QIAN *Plantago major*, MENG GU SHAN LUO BO *Scabiosa comosa*, SHA ZAO *Elaeagnus angustifolia*, TANG LI *Pyrus betulaefolia*, XIANG RI KUI JING *SUI Helianthus annuus*, XIANG RI KUI YE *Helianthus annuus*. Ref: 6, 660.

**15364 Neochlorogenin**

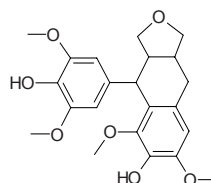
[511-91-1] C₂₇H₄₄O₄ (432.65). mp 269~270°C. Source: XIA YE LONG SHE

LAN *Agave cantala*. Ref: 10.

**15365 Neociwujiaphenol**

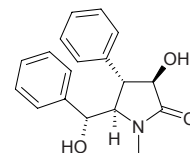
C₂₂H₂₆O₇ (402.45). White acicular crystals mp 197~199°C. Source: CI WU

JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 835.

**15366 Neoclausenamide**

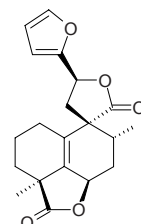
[114528-82-4] C₁₈H₁₉NO₃ (297.35). Colorless diamond crystals (methanol),

mp 205~206°C. Pharm: Antihepatotoxin (mus, liver toxicosis induced by CCl₄, reduces GPT). Source: HUANG PI YE *Clausena lansium*. Ref: 1182.

**15367 Neoclerodan-5,10-en-19,6β;20,12-diolide**

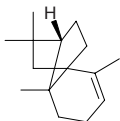
C₂₀H₂₂O₅ (342.40). mp 139~140°C, [α]_D¹⁸ = +50° (c = 1.9, CHCl₃). Source:

CHANG SUI BA DOU *Croton macrostachys* (root). Ref: 3983.

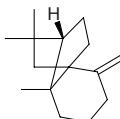


15368 α -Neoclovene

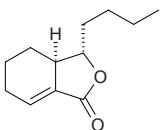
$C_{15}H_{24}$ (204.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*].
Ref: 2616, 5330.

**15369 β -Neoclovene**

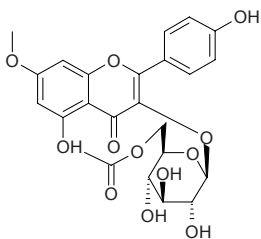
[56684-96-9] $C_{15}H_{24}$ (204.36). $[\alpha]_D^{25} = -30^\circ$ (MeOH). Source: REN SHEN
Panax ginseng [Syn. *Panax schinseng*]. Ref: 2616, 5330.

**15370 Neocnidilide**

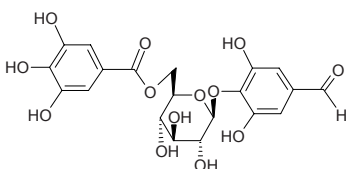
[4567-33-3] $C_{12}H_{18}O_2$ (194.27). mp 24~27°C, bp 147~148°C/4mmHg. Pharm:
Anticonvulsant (rat, cerebral section, inhibits release of Glu-transmitter with
low toxin); antibacterial (*Aspergillus niger*, *Cochliobolus miyabeanus*,
Pyricularia oryzae); antiasthmatic (gpg, *in vitro*, tracheal smooth muscle
relaxant, stronger than papaverine hydrochloride). Source: CHA XIONG
Ligusticum sinense cv. *chaxiong*, CHUAN XIONG *Ligusticum chuanxiong*
[Syn. *Ligusticum wallichii*], GAO BEN *Ligusticum sinense* (25.27% in
volatile oil). Ref: 2, 531, 1596, 1597, 1598, 1599, 5501.

**15371 Neocomplanoside**

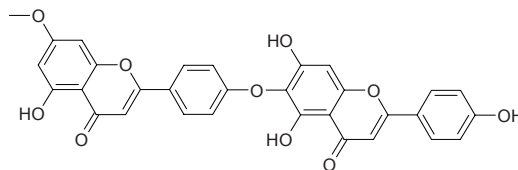
$C_{24}H_{24}O_{12}$ (504.45). Yellow acicular crystals, mp 217~219°C. Source: BIAN
JING HUANG QI *Astragalus complanatus*. Ref: 123, 1521.

**15372 Neocretanin**

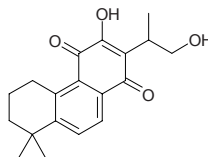
[67771-96-4] $C_{20}H_{20}O_{13}$ (468.37). Needles +2H₂O (H₂O), mp 195~197°C
(dec), $[\alpha]_D^{23} = -63.8^\circ$ ($c = 0.99$, MeOH). Source: LI SHU PI *Castanea*
mollissima. Ref: 1521, 2618.

**15373 Neocryptomerin**

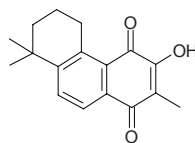
[20931-36-6] $C_{31}H_{20}O_{10}$ (552.50). Source: LUO HAN SONG YE *Podocarpus*
macrophyllus. Ref: 6.

**15374 Neocryptotanshinone**

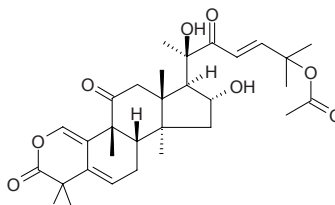
[109664-02-0] $C_{19}H_{22}O_4$ (314.38). Orange-red needles, mp 165~167°C, $[\alpha]_D^{23}$
 $= +29.8^\circ$ ($c = 0.84$, CHCl₃). Source: DAN SHEN *Salvia miltiorrhiza*. Ref:
2619.

**15375 Neocryptotanshinone II**

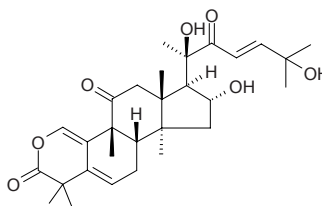
$C_{17}H_{18}O_3$ (270.33). Yellow acicular crystals, mp 129~130°C, $[\alpha]_D^{25} = 3.8^\circ$ ($c =$
 1 , CHCl₃). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 769.

**15376 Neocucurbitacin A**

$C_{31}H_{42}O_8$ (542.68). Amorphous powder, $[\alpha]_D = +71.3^\circ$ ($c = 0.46$, CHCl₃).
Pharm: Polyoma enhancer binding protein 2aA (PEBP2aA) inhibitor (hmn
osteoblast-like cells Saos-2 cell line); osteoclastogenesis-inhibitory factor
(OCIF) gene expression inhibitor (hmn osteoblast-like cells Saos-2 cell
line). Source: NANG GAI SI GUA *Luffa operculata*. Ref: 4136.

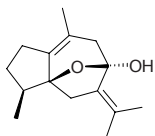
**15377 Neocucurbitacin B**

$C_{29}H_{40}O_7$ (500.64). Amorphous powder, $[\alpha]_D = +82.0^\circ$ ($c = 0.50$, CHCl₃).
Source: NANG GAI SI GUA *Luffa operculata*. Ref: 4136.

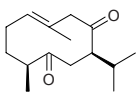


15378 Neocurcumenol

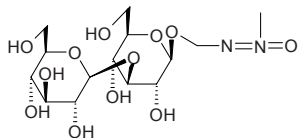
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{25} = +15.3^\circ$ ($c = 2.00$, $CHCl_3$). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, $100\mu\text{mol/L}$, $\text{InRt} = (45.4 \pm 2.2)\%$, control $L\text{-NMMA}$, $100\mu\text{mol/L}$, $\text{InRt} = (79.2 \pm 0.9)\%$, $p < 0.01$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**15379 Neocurdione**

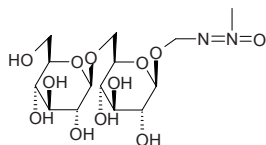
$C_{15}H_{24}O_2$ (236.36). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, $100\mu\text{mol/L}$, $\text{InRt} = (50.4 \pm 2.3)\%$, control $L\text{-NMMA}$, $100\mu\text{mol/L}$, $\text{InRt} = (79.2 \pm 0.9)\%$, $p < 0.01$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**15380 Neocycasin A**

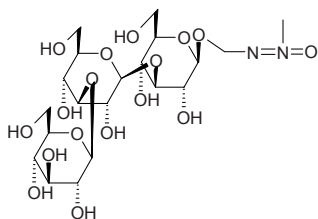
$C_{14}H_{26}N_2O_{12}$ (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15381 Neocycasin B**

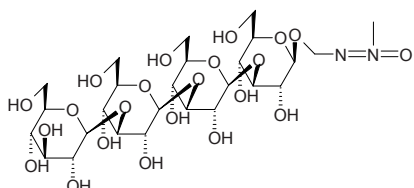
$C_{14}H_{26}N_2O_{12}$ (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15382 Neocycasin C**

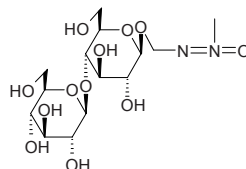
$C_{20}H_{36}N_2O_{17}$ (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15383 Neocycasin D**

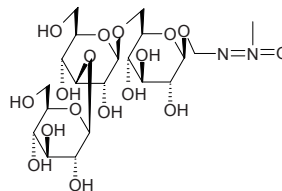
$C_{26}H_{46}N_2O_{22}$ (738.66). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15384 Neocycasin E**

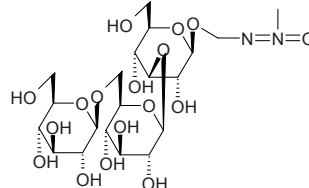
$C_{14}H_{26}N_2O_{12}$ (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15385 Neocycasin F**

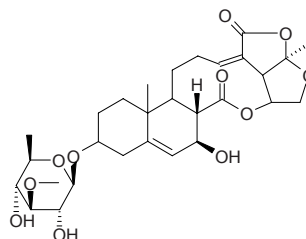
$C_{20}H_{36}N_2O_{17}$ (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15386 Neocycasin G**

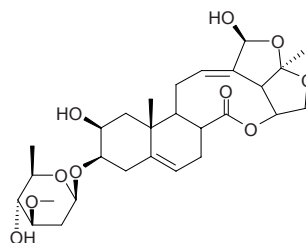
[2288-28-0] $C_{20}H_{36}N_2O_{17}$ (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15387 Neocynanversicoside**

$C_{29}H_{40}O_{11}$ (564.64). **Source:** WAN SHENG BAI WEI *Cynanchum versicolor*. **Ref:** 2620.

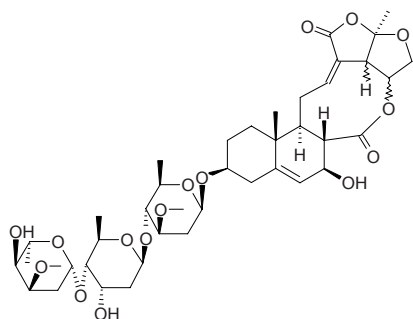
**15388 Neocynapanogenin C 3-O-β-D-oleandropyranoside**

$C_{28}H_{40}O_{10}$ (536.63). Colorless powder. **Source:** XU CHANG QING *Cynanchum paniculatum*. **Ref:** 2264.

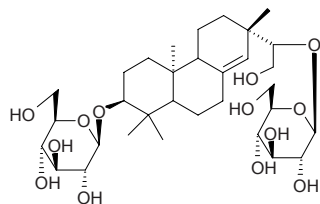


15389 Neocynapanoside A

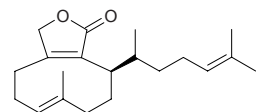
$C_{41}H_{60}O_{16}$ (808.93). Amorphous powder, mp 105–108°C, $[\alpha]_D = -57.3^\circ$ ($c = 1.54$, $CHCl_3$). Source: XU CHANG QING *Cynanchum paniculatum*. Ref: 2621.

**15390 Neodarutoside**

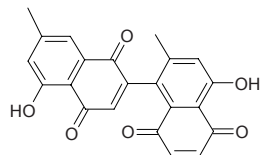
$C_{32}H_{54}O_{13}$ (646.78). Source: MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*]. Ref: 143, 2622.

**15391 Neodictyolactone**

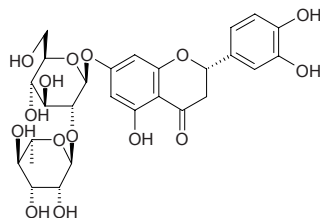
$C_{20}H_{30}O_2$ (302.46). $[\alpha]_D^{20} = -35^\circ$ ($c = 0.30$, CH_2Cl_2). Source: XIAN ZHUANG WANG DI ZAO *Dictyota linearis*. Ref: 3818.

**15392 Neodiospyrin**

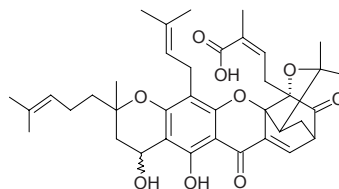
[33916-25-5] $C_{22}H_{14}O_6$ (374.35). mp 253–254°C. Source: SHI GEN *Diospyros kaki*. Ref: 6.

**15393 Neoeriocitrin**

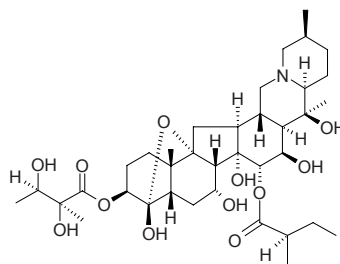
[13241-32-2] $C_{27}H_{32}O_{15}$ (596.55). Source: *Citrus* sp. Ref: 658.

**15394 Neogambogic acid**

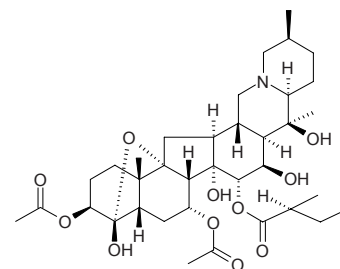
[93772-31-7] $C_{38}H_{46}O_9$ (646.78). Yellow. Source: TENG HUANG *Garcinia morella* (dried balsam: content scope of 9 batch samples = 9.55%–22.22%, mean content = 14.98%)^[5508], TENG HUANG SHU *Garcinia hanburyi*^[2623]. Ref: 2623, 5508.

**15395 Neogermbudine**

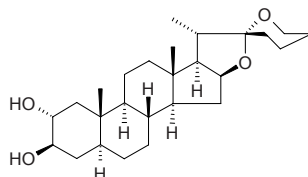
[595-64-2] $C_{37}H_{59}NO_{12}$ (709.88). Sericate crystals (benzene), mp 149–152°C, $[\alpha]_D^{25} = -12^\circ$ ($c = 1$, pyridine). Pharm: Antihypertensive (anesthetic dog, 2mg/(kg·min), iv, 10min, blood pressure lowered by 30% on average). Source: LV LI LU *Veratrum viride*, BAI LI LU *Veratrum album*. Ref: 661.

**15396 Neogermitrine**

$C_{36}H_{55}NO_{11}$ (677.84). Colorless long bar crystals or clustered acicular crystals (diluting acetone), mp 234–235°C, $[\alpha]_D^{24} = -77^\circ$ ($c = 1.0$, pyridine). Pharm: Reduces myocardial contractility and antihypertensive (dog, iv); used in treatment of myasthenia gravis. Source: AI XI SHOU SHI LI LU *Veratrum eschscholtzii*, LIU SU LI LU *Veratrum fimbriatum*, LV LI LU *Veratrum viride*. Ref: 658.

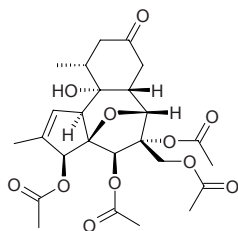
**15397 Neogitogenin**

[6811-13-8] $C_{27}H_{44}O_4$ (432.65). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2.

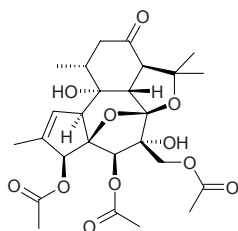


15398 Neoglabrescin A tetraacetate

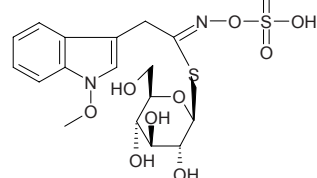
$C_{25}H_{32}O_{11}$ (508.53). Colorless crystals (acetone-petroleum ether), mp 247~248°C, $[\alpha]_D^{20} = -64.9^\circ$ ($c = 0.7$, $CHCl_3$). Source: *Neoboutonia glabrescens*. Ref: 3441.

**15399 Neoglabrescin B triacetate**

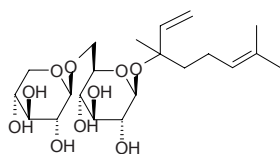
$C_{26}H_{34}O_{11}$ (522.55). Colorless crystals (acetone-petroleum ether), mp 215~216°C, $[\alpha]_D^{20} = +8.9^\circ$ ($c = 0.09$ MeOH). Source: *Neoboutonia glabrescens*. Ref: 3441.

**15400 Neoglucobrassicin**

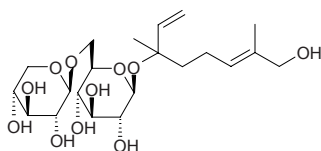
[5187-84-8] $C_{17}H_{22}N_2O_{10}S_2$ (478.50). Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, DA QING YE *Isatis indigotica*, JING HUA HUA YE CAI *Brassica oleracea* var. *botrytis* subvar. *cauliflora*, JU SAN HUA HUA YE CAI *Brassica oleracea* var. *botrytis* subvar. *cymosa*, PIE LAN *Brassica oleracea* var. *gongylodes*, OU ZHOU YOU CAI *Brassica napus*, ZUAN GUO SUAN JIE *Sisymbrium officinale*. Ref: 2.

**15401 Neohancoside A**

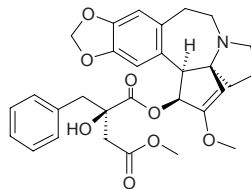
$C_{21}H_{36}O_{10}$ (448.52). White amorphous powder, mp 84~86°C (methanol). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 244.

**15402 Neohancoside B**

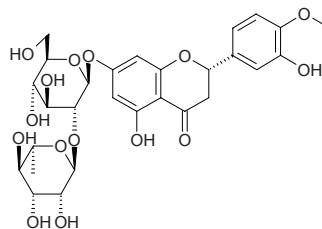
8-Hydroxy-linalool-3-O-β-D-xylopyranosyl(1→6)-β-D-glucopyranoside
 $C_{21}H_{36}O_{11}$ (464.51). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 244.

**15403 Neoharringtonine**

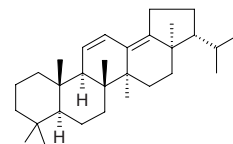
[142748-51-4] $C_{30}H_{33}NO_8$ (535.60). Pharm: Antineoplastic (leukemia). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 2630.

**15404 Neohesperidin**

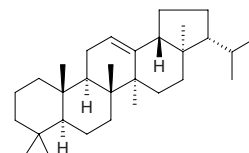
[13241-33-3] $C_{28}H_{34}O_{15}$ (610.57). mp 234~235°C, 244°C. Pharm: Bitter principle. Source: GOU JU ZHI SHI *Poncirus trifoliata*, NING MENG PI *Citrus limon*, WU HE MI JU *Citrus unshiu*, ZHI SHI *Citrus aurantium*. Ref: 2, 658, 660.

**15405 11,13(18)-Neohopadiene**

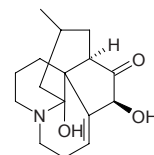
Wallichienene [3608-05-7] $C_{30}H_{48}$ (408.72). Crystals ($CHCl_3/MeOH$), mp 213~215°C, $[\alpha]_D = +42^\circ$. Source: GAO SHAN TIAO JUE *Oleandra wallichii*, TIE SI QI *Adiantum pedatum*. Ref: 6, 1521.

**15406 12-Neohopene**

[2734-37-4] $C_{30}H_{50}$ (410.73). Crystals ($CHCl_3/MeOH$), mp 134~137°C, 210~211°C, $[\alpha]_D = +18.4^\circ$ ($CHCl_3$), $[\alpha]_D = +41.1^\circ$ ($CHCl_3$). Source: DA YE GU SUI BU *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], TIE SI QI *Adiantum pedatum*, *Adiantum* spp. Ref: 6, 1521, 2722.

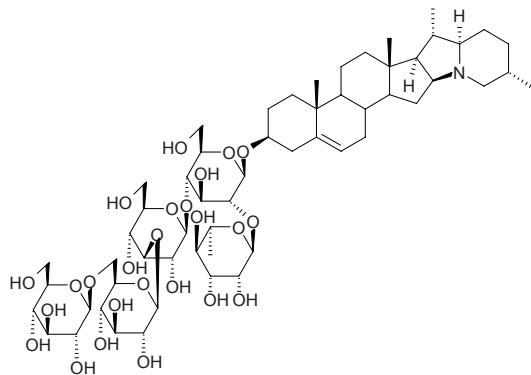
**15407 Neohuperzine**

$C_{16}H_{23}NO_3$ (277.37). Colorless needles, $[\alpha]_D^{22} = -48.2^\circ$ ($c = 0.1037$, EtOH). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 2245.

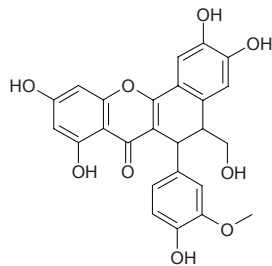


15408 Neohyacinthoside

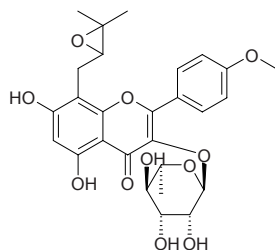
Solanidine-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 4)] β -*D*-glucopyranoside
 $C_{57}H_{93}NO_{25}$ (1192.37). White powder, mp 262~265°C, $[\alpha]_D^{20} = -25.9^\circ$ ($c = 0.29$, pyridine). Source: BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*]. Ref: 93.

**15409 Neohydnocarpin**

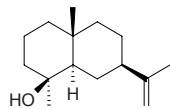
[71417-57-7] $C_{25}H_{20}O_9$ (464.43). Yellow powder (benzene/acetone), mp 235~237°C, $[\alpha]_D = -20.3^\circ$ ($c = 0.59$, MeOH). Pharm: Cytotoxic (mus, L1210; hmn: KB, colon glandular cancer, bone cancer, HeLa-S3 cervical cancer; Tmolt3 leukaemia cells). Source: WEI SHI DA FENG ZI *Hydnocarpus wightiana*. Ref: 2624, 2625.

**15410 Neocariin**

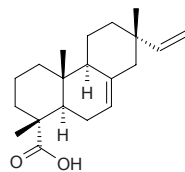
$C_{27}H_{30}O_{11}$ (530.53). Yellow powder, mp 185~187°C. Source: YIN YANG HUO *Epimedium brevicornum* Ref: 4427.

**15411 Neointermedeol**

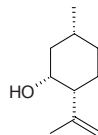
[5945-72-2] $C_{15}H_{26}O$ (222.37). Oil, bp 85~87°C/0.5mmHg, $[\alpha]_D^{25} = +7.5^\circ$ ($c = 2.6$, EtOH). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2626, 2627.

**15412 Neoisodextropimaric acid**

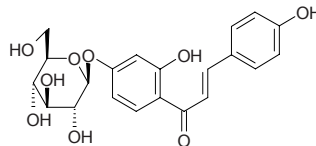
$C_{20}H_{30}O_2$ (302.46). Pharm: Antibacterial; cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells)^[5038]. Source: BEI MEI YA BAI *Thuja occidentalis*, DU SONG SHI *Juniperus rigida*, AN CI BAI *Juniperus conferta*. Ref: 658, 5038.

**15413 Neoisopulegol**

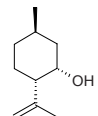
$C_{10}H_{18}O$ (154.25). Source: YU XIANG CAO *Mentha rotundifolia*. Ref: 6.

**15414 Neoisoliquiritin**

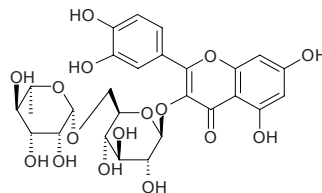
Isoliquirittigenin-4- β -glucoside [59122-93-9] $C_{21}H_{22}O_9$ (418.40). mp 228~230°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**15415 Neoisopulegol**

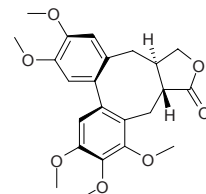
[20549-46-6] $C_{10}H_{18}O$ (154.25). bp (+) 95°C/17mmHg. Source: YU XIANG CAO *Mentha rotundifolia*. Ref: 6.

**15416 Neisorutin**

[36535-79-2] $C_{27}H_{30}O_{16}$ (610.53). Source: LUO BU MA *Apocynum venetum*, PAO NANG CAO *Physochlaina physaloides*. Ref: 6.

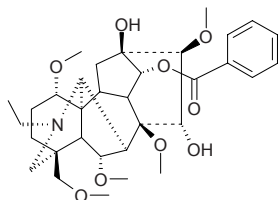
**15417 Neoistegane**

[87084-98-8] $C_{23}H_{26}O_7$ (414.46). Pharm: Antineoplastic; cytotoxic (KB, ED₅₀ = 6.6 μ g/mL). Source: WU JIA QIAN HU *Steganotaenia araliacea*. Ref: 658, 1729.

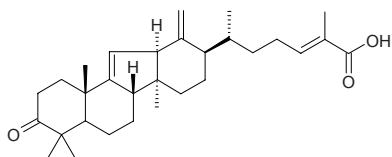


15418 Neojiangyouaconitine

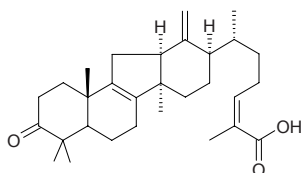
Aconitane-13,14,15-trihydroxyl,20-ethyl-1,6,8,16-tetramethoxy-4-(methoxymethyl)-14-benzoate(1 α ,6 α ,14 α ,15 α ,16 β) C₃₃H₄₇NO₉ (601.74). White lamellar crystals, mp 201–204°C, [α]_D^{14.4} = –9.46° (c = 0.22, methanol). Source: FU ZI *Aconitum carmichaeli*. Ref: 239.

**15419 Neokadsuranic acid A**

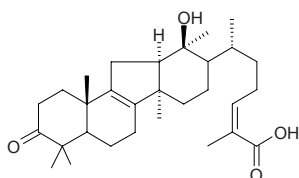
[123929-80-6] C₃₀H₄₄O₃ (452.68). Colorless oil, [α]_D²⁰ = –35.0° (c = 0.1, CHCl₃). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol); antineoplastic^[2523]; anti-HIV^[2523]. Source: YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 2436, 2523, 2628.

**15420 Neokadsuranic acid B**

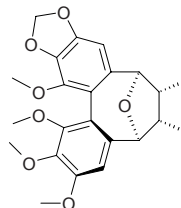
[123828-59-1] C₃₀H₄₄O₃ (452.68). [α]_D¹⁸ = +37.4° (c = 0.11, chloroform). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 1150.

**15421 Neokadsuranic acid C**

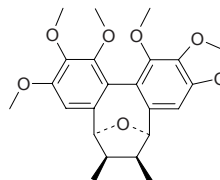
[123828-60-4] C₃₀H₄₆O₄ (470.69). Amorphous powder, [α]_D²⁹ = +42.0° (c = 0.07, ethanol). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 1150.

**15422 Neokadsuranin**

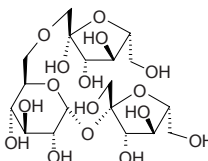
[115181-68-5] C₂₃H₂₆O₇ (414.46). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (4.7±0.4)% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%)^[4644]. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], NEI NAN WU WEI ZI *Kadsura interior* (stem). Ref: 2436, 4644.

**15423 Neokadsuranin**

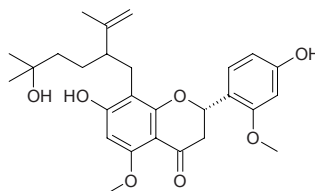
[115181-68-5] C₂₃H₂₆O₇ (414.46). Crystals (Et₂O), mp 157–159°C, [α]_D = 0° (CHCl₃). Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 2629.

**15424 Neokestose**

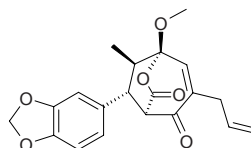
[3688-75-3] C₁₈H₃₂O₁₆ (504.45). Source: GE CONG *Allium victorialis*. Ref: 6.

**15425 Neokurarinol**

C₂₇H₃₄O₇ (470.57). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2, 1521.

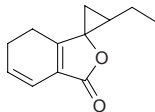
**15426 Neolignan in Magnolia denudata**

C₂₀H₂₀O₆ (356.38). Source: YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 4439.

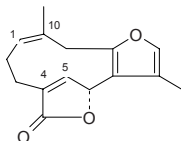


15427 Neoligustilide

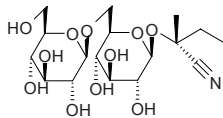
$C_{12}H_{14}O_2$ (190.24). Colorless massive crystals, mp 58–60°C. Source: LIAO GAO BEN *Ligusticum jeholense*. Ref: 343.

**15428 Neolinderalactone**

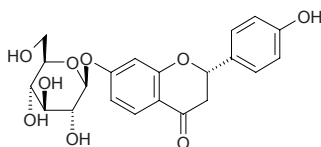
[26379-18-0] $C_{15}H_{16}O_3$ (244.29). Prisms (MeOH), mp 116–118°C, $[\alpha]_D^{25} = +100^\circ$ ($c = 1.09$, EtOH).660. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 1521.

**15429 Neolinustatin**

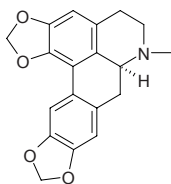
$C_{17}H_{29}NO_{11}$ (423.42). Pharm: Toxin. Source: YA MA *Linum usitatissimum*. Ref: 658.

**15430 Neoliquiritin**

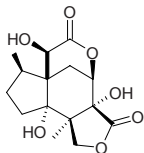
[5088-75-5] $C_{21}H_{22}O_9$ (418.40). mp 164–166°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**15431 Neolitsine**

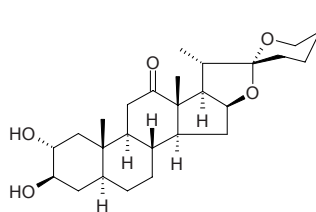
[2466-42-4] $C_{19}H_{17}NO_4$ (323.35). Needles (Me₂CO), mp 149–150°C, $[\alpha]_D = +56.5^\circ$ ($c = 1.57$, CHCl₃). Source: MEI LI XIN MU JIANG ZI *Neolitsia pulchella*, WU YE TENG *Cassytha filiformis*, YUE GUI YE *Laurus nobilis*. Ref: 1521, 2601.

**15432 Neomajucin**

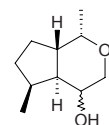
[114687-98-8] $C_{15}H_{20}O_7$ (312.32). Colorless octahedron (EtOAc), mp 220–222°C, $[\alpha]_D^{24} = -75^\circ$ ($c = 0.25$, dioxane). Pharm: Spasm action (picrotoxin-like); LD₅₀ = 12.2mg/kg. Source: DA BA JIAO *Illicium majus* (peel), JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.00014%dw)^[4621]. Ref: 2631, 2751, 4621.

**15433 Neomanogenin**

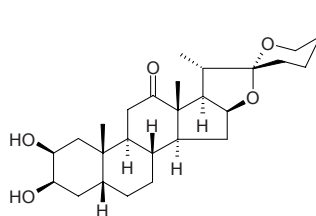
$C_{27}H_{42}O_5$ (446.63). mp 242°C. Source: TIAO WEN LONG SHE LAN *Agave striata*. Ref: 2503.

**15434 Neomatatabiol**

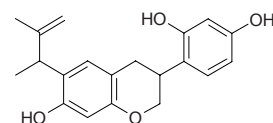
Dihydronepetalactol [21699-53-6] $C_{10}H_{18}O_2$ (170.25). bp 95°C/5mmHg. Pharm: Attracts adult male dayfly (*Chrysopa septempunctata*). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6, 658.

**15435 Neomexogenin**

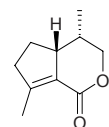
$C_{27}H_{42}O_5$ (446.63). mp 221°C. Source: *Agave roezliana*. Ref: 2503.

**15436 Neomillinol**

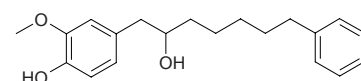
$C_{20}H_{22}O_4$ (326.40). Semisolid, $[\alpha]_D^{25} = -6^\circ$ ($c = 0.1$, MeOH). Pharm: Antibacterial. Source: ZONG ZHUANG JI XUE TENG *Millettia racemosa*. Ref: 2734.

**15437 Neonepetalactone**

[24190-25-8] $C_{10}H_{14}O_2$ (166.22). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.

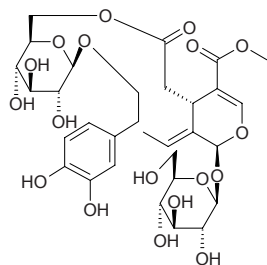
**15438 Neonootkatol**

$C_{20}H_{26}O_3$ (314.43). Yellow oil Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 796.

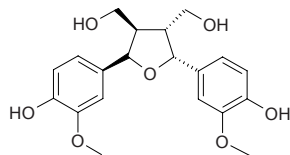


15439 Neoneuzhenide

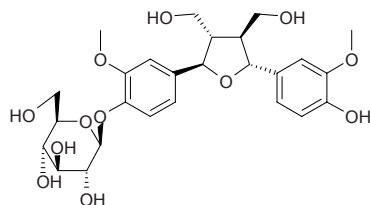
[96382-91-1] $C_{31}H_{42}O_{18}$ (702.67). Crystals (as nona-Ac compound), mp 85–86°C (nona-Ac compound), $[\alpha]_D = -93.5^\circ$ ($CHCl_3$, nona-Ac compound). **Pharm:** Antiviral (Help2 cells, Para-3, $IC_{50} = 72.9\mu g/mL$, TI = 2.0; MDCK cells, Flu-A, inactive; Vero cells, SV-1, inactive)^[4141]; anti-hemolysis (rat, red blood cell *in vitro*, 2,2'-azo-bis-(2-amidinopropane)dihydrochloride induced, $IC_{50} = 35.0\mu mol/L$, control Trolox, $IC_{50} = 55.0\mu mol/L$)^[4141]; anti-hemolysis (against hemolysis of red blood cells induced by AAPH free radicals, $IC_{50} = 9.3\text{--}37.5\mu mol/L$)^[3545]. **Source:** NV ZHEN ZI *Ligustrum lucidum*, RI BEN NV ZHEN *Ligustrum japonicum*, **Ref:** 2633, 3545, 4141.

**15440 Neolivil**

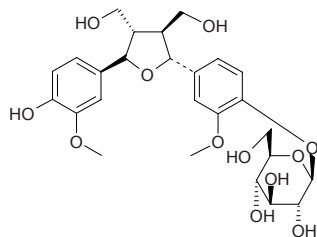
[77790-55-7] $C_{20}H_{24}O_7$ (376.41). Oil. **Source:** YI ZHU QIAN MA *Urtica dioica*, *Thymus longiflorus*. **Ref:** 2634, 2635.

**15441 7R,7'R,8S,8'S-(+)-Neo-olivil-4-O-β-D-glucopyranoside**

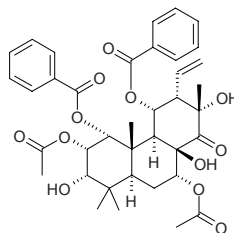
$C_{26}H_{34}O_{12}$ (538.55). Amorphous powder, $[\alpha]_D^{24} = +6.4^\circ$ ($c = 0.110$, MeOH). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 2528.

**15442 Neolivil-4-O-β-D-glucoside**

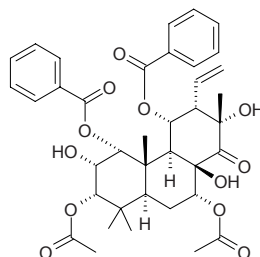
$C_{26}H_{34}O_{12}$ (538.55). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 2636.

**15443 Neoorthosiphol A**

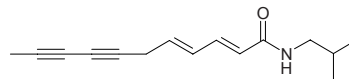
$C_{38}H_{44}O_{12}$ (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 40.7\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$, Polymixin B, $IC_{50} = 27.8\mu g/mL$, Dexamethasone $IC_{50} = 170\mu mol/L$)^[4322]; cytotoxic (antiproliferative, Colon26-L5, $ED_{50} = 38.3\mu g/mL$, control 5-Fluorouracil, $ED_{50} = 0.015\mu g/mL$; HT1080, $ED_{50} = 96.3\mu g/mL$, 5-Fluorouracil, $ED_{50} = 0.48\mu g/mL$)^[3053]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0133%dw). **Ref:** 4322, 3053.

**15444 Neoorthosiphol B**

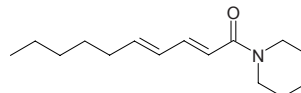
$C_{38}H_{44}O_{12}$ (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 14.0\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$, Polymixin B, $IC_{50} = 27.8\mu g/mL$, Dexamethasone $IC_{50} = 170\mu mol/L$)^[4322]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0023%dw). **Ref:** 4322, 4741.

**15445 Neopellitorine A**

Undeca-2*E*,4*Z*-dien-7,9-diynoic acid isobutylamide $C_{15}H_{19}NO$ (229.32). Yellow oil. **Pharm:** Insecticidal (*Sitophilus oryzae*, *Rhyzopertha dominica*, 200 $\mu g/mL$, after 3 days mortality = 100%). **Source:** XIA YE QING HAO *Artemisia dracunculus* (aerial parts). **Ref:** 5218.

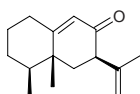
**15446 Neopellitorine B**

Deca-2*E*,4*Z*-dienoic acid piperidide $C_{15}H_{25}NO$ (235.37). Yellow oil. **Pharm:** Insecticidal (*Sitophilus oryzae*, 200 $\mu g/mL$, after 3 days, mortality = 70%; *Rhyzopertha dominica*, 200 $\mu g/mL$, after 3 days, mortality = 50%)^[5218]. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.000029%dw), XIA YE QING HAO *Artemisia dracunculus* (aerial parts). **Ref:** 4753, 5218.



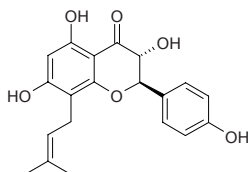
15447 Neopetasone

$C_{15}H_{22}O$ (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

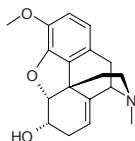
**15448 Neophellamuretin**

$C_{20}H_{20}O_6$ (356.38). Pharm: Antioxidant (DPPH radical scavenger, $250\mu\text{mol/L}$, $\text{InRt} = 20.9\%$; control Vitamin E, $\text{IC}_{50} = 8.3\mu\text{mol/L}$)^[4722]. Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.050%dw).

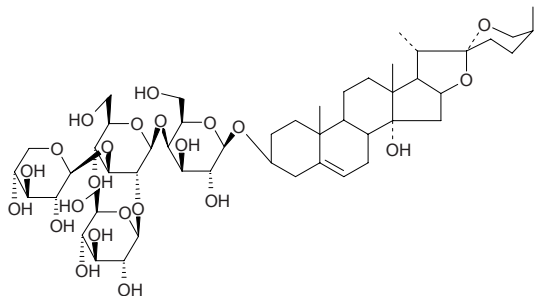
Ref: 4722.

**15449 Neopine**

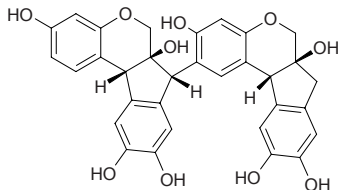
[467-14-1] $C_{18}H_{21}NO_3$ (299.37). mp 127.0~127.5°C. Pharm: Analgesic and antispasmodic (similar action with codeine). Source: DA HONG YING SU *Papaver bracteatum*, YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*. Ref: 6, 658.

**15450 Neoprazerigenin A 3-O-β-D-lycotetraoside**

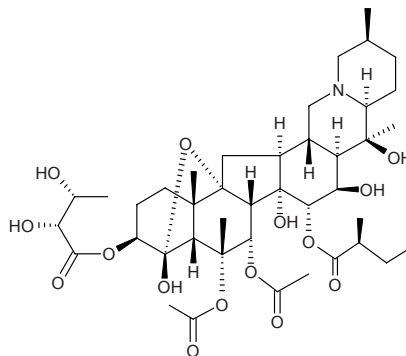
$C_{50}H_{80}O_{23}$ (1049.18). Source: XI BO LI YA LIAO *Polygonum sibiricum* [syn. *Persicaria sibirica*], HUANG JING *Polygonatum sibiricum*. Ref: 2637.

**15451 Neoprotosappanin**

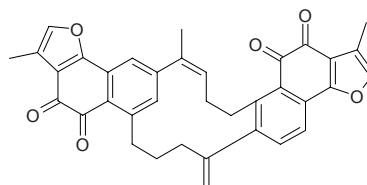
$C_{32}H_{26}O_{10}$ (570.56). Yellow amorphous solid, $[\alpha]_D^{25} = -239.0^\circ$ ($c = 0.3$, MeOH). Pharm: Xanthine oxidase inhibitor (noncompetitive inhibitory activity in concentration-dependent manner, $\text{IC}_{50} = 38.3\mu\text{mol/L}$, $K_i = 29.2\mu\text{mol/L}$, control Allopurinol, competitive type, $\text{IC}_{50} = 2.5\mu\text{mol/L}$, $K_i = 1.80\mu\text{mol/L}$). Source: SU MU *Caesalpinia sappan* (heartwood). Ref: 4494.

**15452 Neoprotoveratrine**

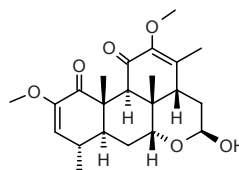
Protoveratrine B [124-97-0] $C_{41}H_{63}NO_{15}$ (809.96). mp 269~270°C, $[\alpha]_D = -39^\circ$ (pyridine). Pharm: Antihypertensive (strong, but with high toxicity); emetic; toxin. Source: BAI LI LU *Veratrum album*, LV LI LU *Veratrum viride*. Ref: 658, 1521.

**15453 Neo-przewaquinone A**

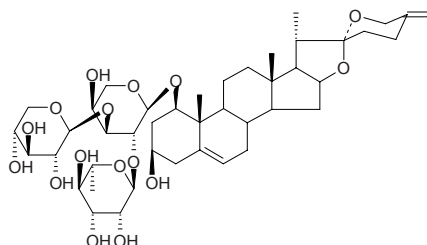
$C_{36}H_{28}O_6$ (556.62). Amaranth needles, mp 188~189°C. Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 2464.

**15454 Neoquassin**

Nigakihemiacetal B $C_{22}H_{30}O_6$ (390.48). Pharm: Extremely bitter. Source: CHU BAI PI *Ailanthus altissima*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], MEI ZHOU KU MU *Quassia amara*, *Picrasma* sp. Ref: 12, 658, 660.

**15455 Neoruscogenin 1-O-{O-α-L-rhamnopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)}-α-L-arabinopyranoside**

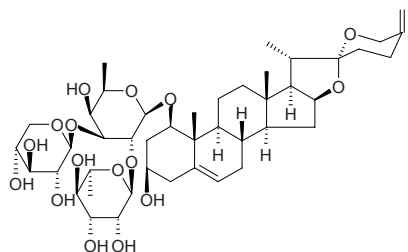
[180161-85-7] $C_{43}H_{66}O_{16}$ (839.00). Amorphous solid, $[\alpha]_D^{27} = -63.8^\circ$ ($c = 0.26$, MeOH). Pharm: cAMP phosphodiesterase inhibitor ($\text{IC}_{50} = 92\mu\text{mol/L}$). Source: XIA WAN NUO LI *Nolina recurvata*. Ref: 1131.



15456 Neoruscogenin 1-O-[O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-fucopyranoside}

[180161-87-9] C₄₄H₆₈O₁₆ (853.02). Amorphous solid, $[\alpha]_D^{27} = -45^\circ$ ($c = 0.44$, MeOH). **Pharm:** cAMP phosphodiesterase inhibitor (IC₅₀ = 161 μ mol/L).

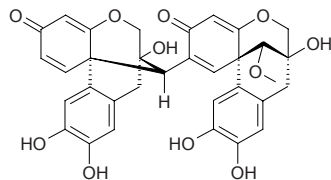
Source: XIA WAN NUO LI *Nolina recurvata*. **Ref:** 1131.



15457 Neosappanone A

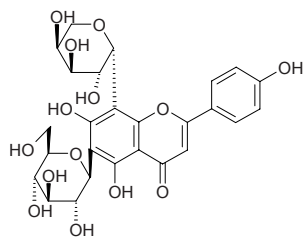
C₃₂H₂₈O₁₁ (600.58). **Pharm:** Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, IC₅₀ = 29.7 μ mol/L, K_i = 16.3 μ mol/L, control Allopurinol, IC₅₀ = 2.5 μ mol/L, K_i = 1.80 μ mol/L).

Source: SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.



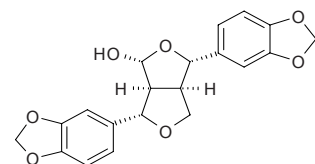
15458 Neoschaftoside

[61328-41-4] C₂₆H₂₈O₁₄ (564.50). **Pharm:** Insect phagostimulant (*Plant hoppers*). **Source:** JING MI *Oryza sativa*. **Ref:** 658.



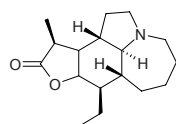
15459 Neosesamin

C₂₀H₁₈O₇ (370.36). Colorless acicular crystals mp 157~158°C. **Source:** TU SI ZI *Cuscuta chinensis*. **Ref:** 816.



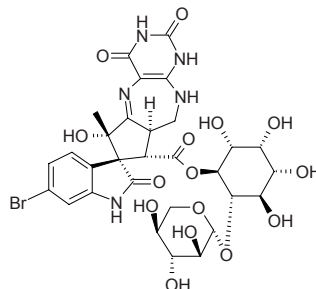
15460 Neostenine

C₁₇H₂₇NO₂ (277.41). mp 90~92°C, $[\alpha]_D^{20} = +73.6^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antitussive (guinea pig cough model, 133 μ mol/kg ip, cough InRt = 77%, $p < 0.001$). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.



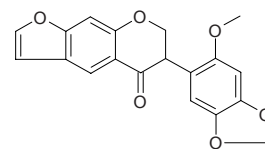
15461 Neosurugatoxin

[80680-43-9] C₃₀H₃₄BrN₅O₁₅ (784.53). **Pharm:** Mydriatic (mus, 0.03 μ g); toxin. **Source:** RI BEN DONG FENG LUO *Babylonia japonica*. **Ref:** 658, 1521.



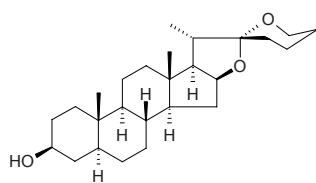
15462 Neotenone

Neorautenone C₁₉H₁₄O₆ (338.32). **Pharm:** Antiviral (HSV-1, 50 μ g/mL, InRt = 26.1%; HSV-2, 50 μ g/mL, InRt = 23.7%). **Source:** DI GUA ZI *Pachyrhizus erosus*. **Ref:** 4180.



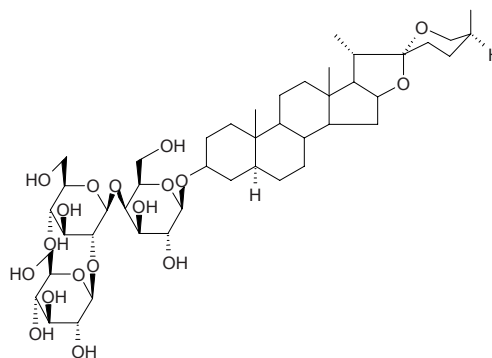
15463 Neotigogenin

[470-01-9] C₂₇H₄₄O₃ (416.65). mp 202~203°C. **Source:** JIAN MA *Agave sisalana*, NIAN YU XU *Smilax sieboldii*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*. **Ref:** 6, 10.



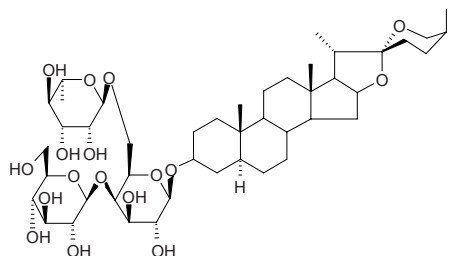
15464 Neotigogenin-3-O- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₄₅H₇₄O₁₈ (903.08). **Source:** BAI MAO TENG *Solanum lyratum*. **Ref:** 2638.



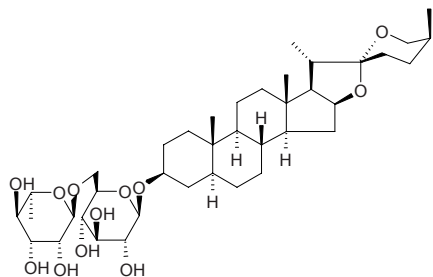
15465 Neotigogenin-3-O- β -D-glucopyranosyl(1 \rightarrow 4)-O-[α -L-rhamnopyranosyl(1 \rightarrow 6)]- β -D-galactopyranoside

C₄₅H₇₄O₁₇ (887.08). Source: BA QIA *Smilax china* [Syn. *Smilax japonica*], NIU WEI CAI *Smilax riparia*. Ref: 2639.



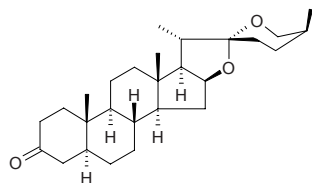
15466 Neotigogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside

C₃₉H₆₄O₁₂ (724.94). Source: BA QIA *Smilax china* [Syn. *Smilax japonica*], NIU WEI CAI *Smilax riparia*. Ref: 2639.



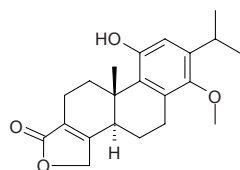
15467 Neotigogenone

C₂₇H₄₂O₃ (414.63). Source: JIAN MA *Agave sisalana*. Ref: 10.



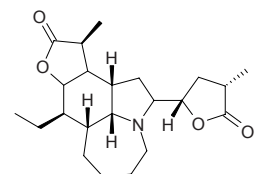
15468 Neotriptophenolide

[81827-74-9] C₂₁H₂₆O₄ (342.44). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.



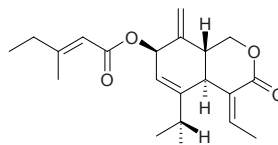
15469 Neotuberostemonine

C₂₂H₃₃NO₄ (375.51). [α]_D²⁰ = +83.0° (*c* = 0.1, MeOH). Pharm: Antitussive (guinea pig cough model, 133 μ mol/kg ip, cough InRt = 85%, *p* < 0.001). Source: BAI BU *Stemona tuberosa*. Ref: 5463.



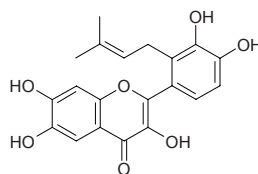
15470 Neotussilagolactone

[168482-85-7] C₂₁H₂₈O₄ (344.45). Colorless jelly, [α]_D²³ = -37.2° (*c* = 0.1, CHCl₃). Pharm: Platelet aggregation inhibitor (PAF trial, IC₅₀ = 26.7 μ mol/L). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 2640, 2641.



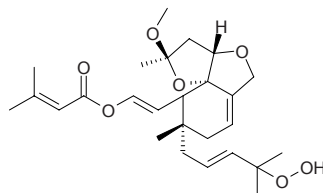
15471 Neouralenol

3,6,7,3',4'-Pentahydroxy-2'-isoprenylflavone [139163-16-9] C₂₀H₁₈O₇ (370.36). Dark yellow acicular crystals, mp 229~231°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 171, 660.



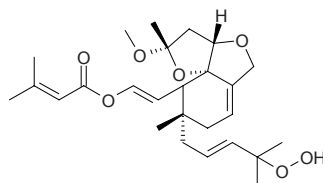
15472 Neovibsanin D

C₂₆H₃₈O₇ (462.59). Colorless paste, [α]_D²³ = -66.1° (*c* = 0.30, CHCl₃). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



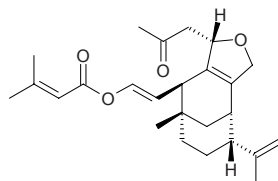
15473 7-epi-Neovibsanin D

C₂₆H₃₈O₇ (462.59). Colorless paste, [α]_D²³ = +24.2° (*c* = 0.70, CHCl₃). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



15474 Neovibsanin G

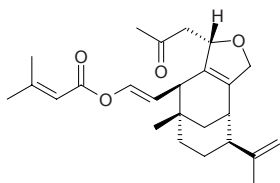
C₂₅H₃₄O₄ (398.55). Colorless paste, [α]_D²³ = +96.2° (*c* = 0.32, alcohol). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



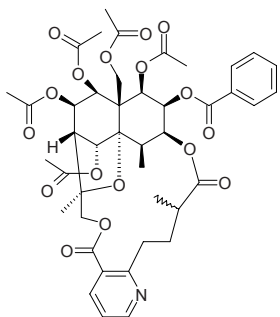
15475 14-epi-Neovibsanin G

$C_{25}H_{34}O_4$ (398.55). Colorless paste, $[\alpha]_D^{23} = +136.2^\circ$ ($c = 0.09$, alcohol).

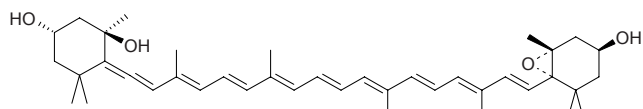
Source: RI BEN JIA MI *Viburnum awabuki*. **Ref:** 2530.

**15476 Neowilforine**

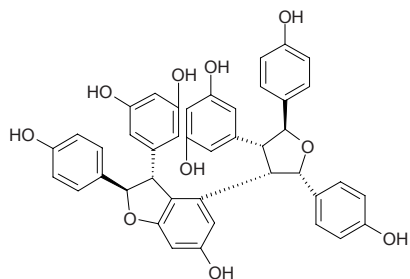
[121880-18-0] $C_{43}H_{49}NO_{17}$ (851.87). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**15477 Neoxanthin**

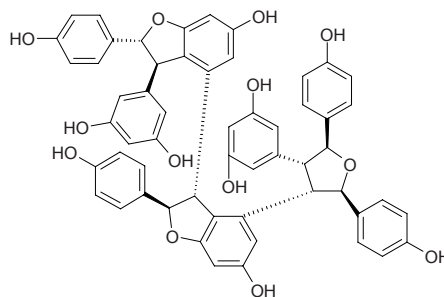
[30743-41-0] $C_{40}H_{56}O_4$ (600.89). mp $134^\circ C$. **Pharm:** Yellow pigment. **Source:** DAO CAO *Oryza sativa*, HONG HAI JIAO *Capsicum annuum*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], JING MI *Oryza sativa*, MA TI YE *Caltha palustris*, SUAN SHUI CAO *Potamogeton perfoliatus*, TAO *Prunus persica*, YANG LI *Prunus domestica*, *Forsythia* sp., *Geum* sp., *Malus* sp. **Ref:** 6, 658.

**15478 Nepalensinol D**

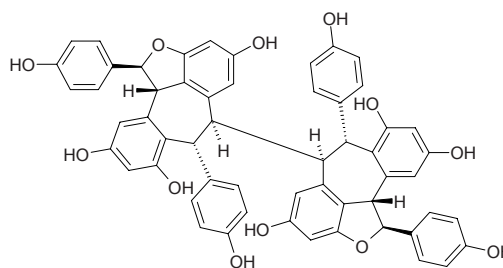
$C_{42}H_{34}O_{10}$ (698.73). Reddish brown powder, mp $230^\circ C$ (dec), $[\alpha]_D = -82.0^\circ$ ($c = 0.3$, MeOH). **Pharm:** Topoisomerase II inhibitor (hmn, $IC_{50} = 14.8 \mu mol/L$, control Daunorubicin, $IC_{50} = 9.1 \mu mol/L$). **Source:** NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0003%dw). **Ref:** 1783.

**15479 Nepalensinol E**

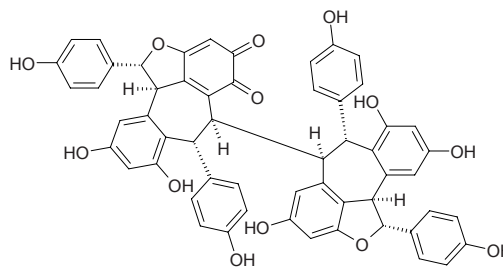
$C_{56}H_{44}O_{13}$ (924.97). Brown powder, mp $250^\circ C$ (dec), $[\alpha]_D = -307.8^\circ$ ($c = 0.5$, MeOH). **Pharm:** Topoisomerase II inhibitor (hmn, $IC_{50} = 11.7 \mu mol/L$, control Daunorubicin, $IC_{50} = 9.1 \mu mol/L$). **Source:** NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0007%dw). **Ref:** 1783.

**15480 Nepalensinol F**

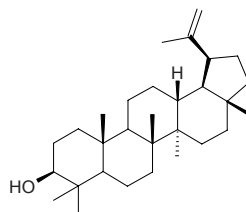
$C_{56}H_{42}O_{12}$ (906.95). Brown powder, mp $> 300^\circ C$ (dec), $[\alpha]_D = +26.3^\circ$ ($c = 0.4$, MeOH). **Pharm:** Topoisomerase II inhibitor (hmn, $IC_{50} = 5.5 \mu mol/L$, control Daunorubicin, $IC_{50} = 9.1 \mu mol/L$). **Source:** NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0005%dw). **Ref:** 1783.

**15481 Nepalensinol G**

$C_{56}H_{40}O_{13}$ (920.94). Reddish brown powder, mp $> 300^\circ C$ (dec), $[\alpha]_D = +66^\circ$ ($c = 0.1$, MeOH). **Pharm:** Topoisomerase II inhibitor (hmn, $IC_{50} > 50 \mu mol/L$ inactive, control Daunorubicin, $IC_{50} = 9.1 \mu mol/L$). **Source:** NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0008%dw). **Ref:** 1783.

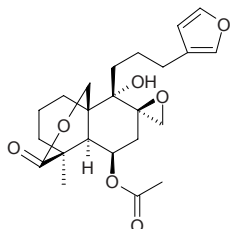
**15482 Nephinol**

3β -Hydroxy-18 β ,19 α H-lup-20(29)-ene $C_{30}H_{50}O$ (426.73). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 5019.

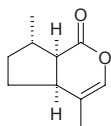


15483 Nepetaefuran

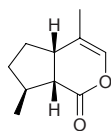
[29461-24-3] C₂₂H₂₈O₇ (404.46). **Pharm:** Cytotoxic (leukemia cells L₁₂₁₀ in tissue culture, IC₅₀ = 50-60 μg/mL)^[4328]. **Source:** JING JIE YE SHI ER CAO *Leonotis nepetaefolia*, XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). **Ref:** 1521, 4328.

**15484 Nepetalactone**

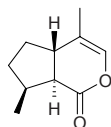
[21651-62-7] C₁₀H₁₄O₂ (166.22). Oil, [α]_D²¹ = +37° (CHCl₃). **Source:** HONG CHE ZHOU CAO *Trifolium pratense*, JIA JING JIE *Nepeta cataria*, MU TIAN LIAO *Actinidia polygama*. **Ref:** 660, 1521.

**15485 cis-Nepetalactone**

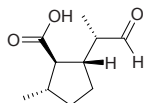
[21651-62-7] C₁₀H₁₄O₂ (166.22). Oil, [α]_D²¹ = +37°. **Pharm:** Anthelmintic; stimulant (animals of family Felidae). **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 658, 1521.

**15486 trans-Nepetalactone**

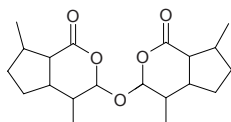
[17257-15-7] C₁₀H₁₄O₂ (166.22). Oil, [α]_D²¹ = -24.4° (c = 6.2, CHCl₃). **Pharm:** Anthelmintic; stimulant (animals of family Felidae). **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 658, 1521.

**15487 Nepetalic acid**

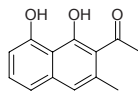
[21651-54-7] C₁₀H₁₆O₃ (184.24). mp 75~76°C. **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 6.

**15488 Nepetalic anhydride**

C₂₁H₃₂O₅ (364.49). mp 139~140°C. **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 6.

**15489 Nepodin**

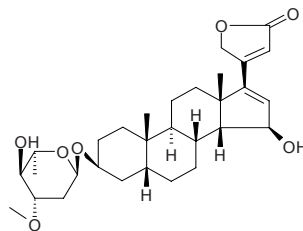
2-Acetyl-1,8-dihydroxy-3-methyl naphthalene; Musizin [3785-24-8] C₁₃H₁₂O₃ (216.24). mp 162~163°C. **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 25 μg/mL; *Sarcina* sp., MIC = 100 μg/mL); antifungal (*Trichophyton rubrum*, MIC = 50 μg/mL; *Candida albicans*, MIC = 100 μg/mL). **Source:** DUN YE SUAN MO *Rumex obtusifolius*, NI BO ER YANG TI *Rumex nepalensis*, NIU SHE CAO *Rumex dentatus* (root: mean content = 0.143%), NIU XI XI *Rumex patientia* (root: mean content = 0.0055%)^[5508], OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], SUAN MO *Rumex acetosa* (root: mean content = 0.0108%)^[5508], YANG TI *Rumex japonicus* (root: mean content = 0.354%)^[5508]. **Ref:** 6, 658, 1521, 5508.

**15490 Nereistoxin**

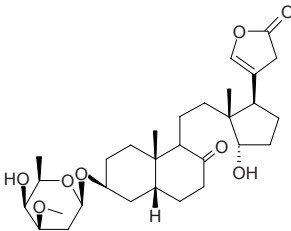
[1631-58-9] C₅H₁₁NS₂ (149.28). **Pharm:** Neurotoxin (mammal, bird, reptile and fish); pesticide (*Musca domestica*, LD = 144 mg/kg; American cockroach, LD = 68 mg/kg); LD₅₀ (mus, iv, oxalate) = 33 mg/kg. **Source:** YI ZU SUO SHA CAN *Lumbricones heteropoda*. **Ref:** 658.

**15491 Neriantin**

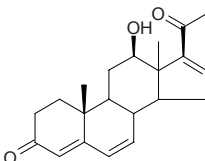
C₃₀H₄₄O₇ (516.68). mp 206~208°C. **Source:** JIA ZHU TAO *Nerium indicum*, OU ZHOU JIA ZHU TAO *Nerium oleander*. **Ref:** 6, 1521.

**15492 Neriaside**

[68165-55-9] C₃₀H₄₆O₈ (534.70). Amorphous, [α]_D = -17.6°. **Source:** *Nerium odorum*. **Ref:** 2642.

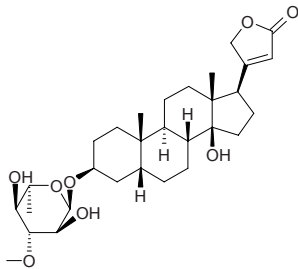
**15493 Neridienone A**

[53823-05-5] C₂₁H₂₆O₃ (326.44). Crystals (Me₂CO-Hexane), mp 210~211°C, [α]_D = +71.5° (MeOH). **Source:** SHAN TENG *Anodendron affine*, XIANG JIA PI *Periploca sepium*, *Nerium odorum*. **Ref:** 2643, 2644, 2645.

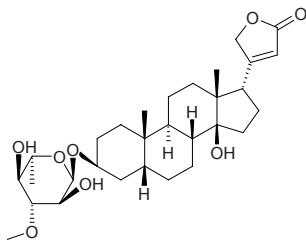


15494 17 β -Neriifolin

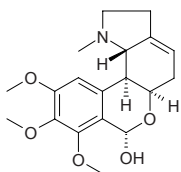
Neriifolin [466-07-9] C₃₀H₄₆O₈ (534.70). mp 218~225°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 0.017 μ g/mL; BC, ED₅₀ = 0.048 μ g/mL; NCI-H187, ED₅₀ = 0.076 μ g/mL; control Ellipticine, ED₅₀ = 0.3~0.6 μ g/mL)^[3777]; cytotoxic (antiproliferative hmn colon cancer assay)^[5038]. **Source:** AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed), HUANG HUA JIA ZHU TAO *Thevetia neriifolia* [Syn. *Thevetia peruviana*] (seed: mean content = 2.00%^[5508]), NIU XIN QIE ZI *Cerbera manghas*. **Ref:** 4, 5, 2594, 2782, 3777, 5038, 5508.

**15495 17 α -Neriifolin**

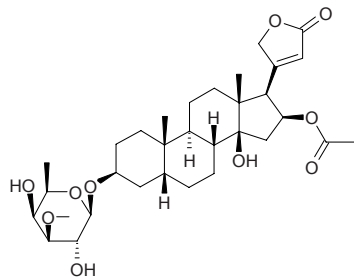
C₃₀H₄₆O₈ (534.70). **Pharm:** Cytotoxic (KB, ED₅₀ = 0.078 μ g/mL; BC, ED₅₀ = 0.049 μ g/mL; NCI-H187, ED₅₀ = 0.032 μ g/mL; control Ellipticine, ED₅₀ = 0.3~0.6 μ g/mL). **Source:** AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed). **Ref:** 3777.

**15496 Nerinine**

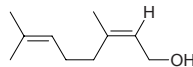
[481-44-7] C₁₉H₂₅NO₅ (347.41). mp 209~210°C. **Source:** GAN FENG CAO *Zephyranthes candida*. **Ref:** 6, 1521.

**15497 Neritaloside**

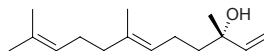
[465-13-4] C₃₂H₄₈O₁₀ (592.73). Fine needles (MeOH), mp 138~140°C. **Pharm:** Inhibits CNS (mus, ip 25mg/kg). **Source:** OU ZHOU JIA ZHU TAO *Nerium oleander*, PENG TE MAN DE MU *Mandevilla pentlandiana*, SHA MO QIANG WEI *Adenium obesum*. **Ref:** 2646, 2647, 2648.

**15498 Nerol**

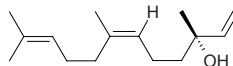
(Z)-3,7-Dimethyl-2,6-octadien-1-ol [106-25-2] C₁₀H₁₈O (154.25). bp 224~227°C. **Pharm:** Flavorant. **Source:** DAI DAI HUA *Citrus aurantium* var. *amara*, GUI HUA *Osmanthus fragrans*, JU PI *Citrus reticulata*, MEI GUI HUA *Rosa rugosa*, PI PA *Eriobotrya japonica*, SHENG JIANG *Zingiber officinale*, XIANG QING LAN *Dracocephalum moldavicum*. **Ref:** 2, 658.

**15499 E-Nerolidol**

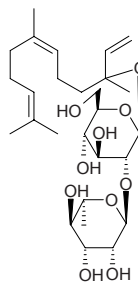
(+)-Nerolidol [7212-44-4] C₁₅H₂₆O (222.37). bp (+) 276°C. **Pharm:** β -Hexosaminidase inhibitor (RBL-2H3 cells, 100 μ mol/L, InRt = (11.8 \pm 1.3)%, $p < 0.05$)^[4221]. **Source:** SHENG JIANG *Zingiber officinale*, TU QIANG HUO *Hedychium coronarium* (rhizome). **Ref:** 2, 4221.

**15500 Z-Nerolidol**

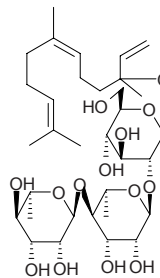
3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol C₁₅H₂₆O (222.37). **Pharm:** Flavorant. **Source:** BI LU XIANG JIAO *Myroxylon pereirae*, DAI DAI HUA *Citrus aurantium* var. *amara*, DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], BI LU XIANG JIAO *Myroxylon pereirae*, PI PA *Eriobotrya japonica*, SHA REN *Amomum villosum*, SHENG JIANG *Zingiber officinale*, TIAN CHENG *Citrus sinensis*, ZHANG MU *Cinnamomum camphora*, ZHANG MU *Cinnamomum camphora*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. **Ref:** 2, 658.

**15501 Nerolidol-3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside**

C₂₇H₄₆O₁₀ (530.66). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 2649.

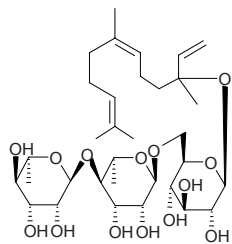
**15502 Nerolidol-3-O- α -L-rhamnopyranosyl(1 \rightarrow 4)- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside**

C₃₃H₅₆O₁₄ (676.81). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 2649.



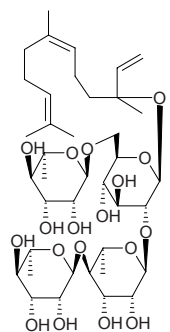
15503 Nerolidol-3-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

C₃₃H₅₆O₁₄ (676.81). Source: PI PA YE *Eriobotrya japonica*. Ref: 2649.



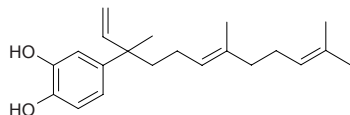
15504 Nerolidol-3-*O*-{ α -L-rhamnopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-[α -L-rhamnopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside}

C₃₉H₆₆O₁₈ (822.95). Source: PI PA YE *Eriobotrya japonica*. Ref: 2649.



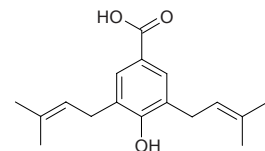
15505 4-Nerolidylcatechol

C₂₁H₃₀O₂ (314.47). Pharm: Myotoxic phospholipase A₂ (PLA₂) inhibitor (*Bothrops asper*, IC₅₀ = 987 μmol/L). Source: SAN XING HU JIAO *Piper umbellatum* (branch), DUN YE HU JIAO *Piper peltatum* (branch). Ref: 5274.



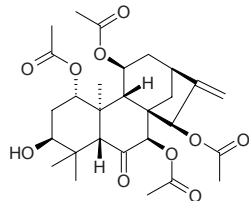
15506 Nervogenic acid

[17622-86-5] C₁₇H₂₂O₃ (274.36). Colorless acicular crystals, mp 94–96°C. Pharm: Antibacterial (*Bacillus subtilis* and *Micrococcus Luteus* on TLC plate, MIC = 2.0 nmol/L). Source: JIAN XUE QING *Liparis nervosa*. Ref: 900.



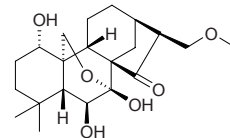
15507 Nervosanin

C₂₈H₃₈O₁₀ (534.61). mp 260–262°C, [α]_D²⁰ = +37.11° (c = 0.54, C₅H₅N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf; yield = 0.0018% dw). Ref: 4067, 4640.



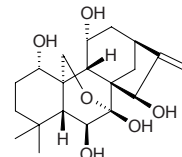
15508 Nervosanin A

C₂₁H₃₂O₆ (380.49). mp 200–202°C, [α]_D²⁵ = –82.09° (c = 0.2, MeOH). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.



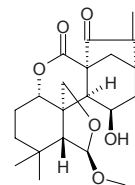
15509 Nervosanin B

C₂₀H₃₀O₆ (366.46). mp 258–260°C, [α]_D²⁵ = –54.73° (c = 0.33, C₅H₅N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.



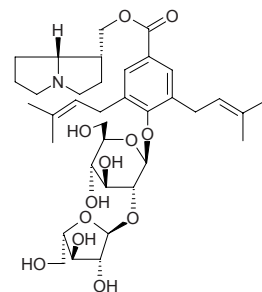
15510 Nervosin

C₂₁H₂₈O₆ (376.45). mp 266–268°C, [α]_D²³ = –149.8° (c = 0.27, C₅H₅N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 2650, 4067.



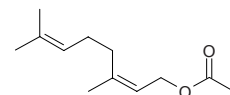
15511 Nervosine

[23179-26-2] C₃₆H₅₃NO₁₂ (691.82). Crystals +1H₂O (as picrate), mp 130–131°C (picrate). Source: JIAN XUE QING *Liparis nervosa* (in 1969, the compound was isolated from the plant by K. Nishikawa et al.)^[5505]. Ref: 1521, 2651, 5505.



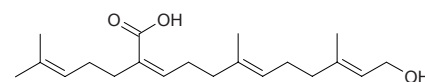
15512 Neryl acetate

[141-12-8] C₁₂H₂₀O₂ (196.29). bp 134°C/25mmHg. Source: PEI LAN *Eupatorium fortunei*. Ref: 6.



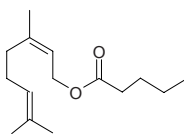
15513 Nerylgeraniol-18-oic acid

C₂₀H₃₂O₃ (320.48). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4297.

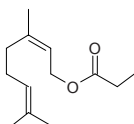


15514 Neryl pentanoate

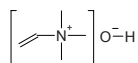
$C_{15}H_{26}O_2$ (238.37). Source: YUAN HUA *Daphne genkwa*. Ref: 2652.

**15515 Neryl propionate**

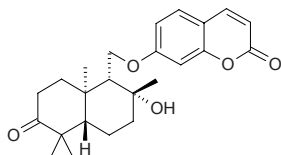
$C_{13}H_{22}O_2$ (210.32). Source: AI YE *Artemisia argyi*, DA MA YE ZE LAN *Eupatorium cannabinum*, LIAO GAO BEN *Ligusticum jeholense*, MING DANG SHEN *Changium smyrnioides*. Ref: 2653, 2654, 2655, 2656.

**15516 Neurine**

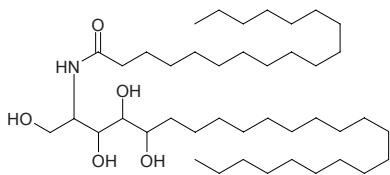
[463-88-7] $C_5H_{13}NO$ (103.17). Sol. H_2O , EtOH. Source: MA GEN *Cannabis sativa*. Ref: 1521, 2657.

**15517 Neveskone**

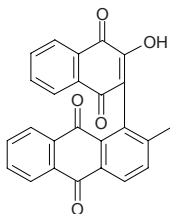
$C_{24}H_{30}O_5$ (398.50). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

**15518 Newbouldiamide**

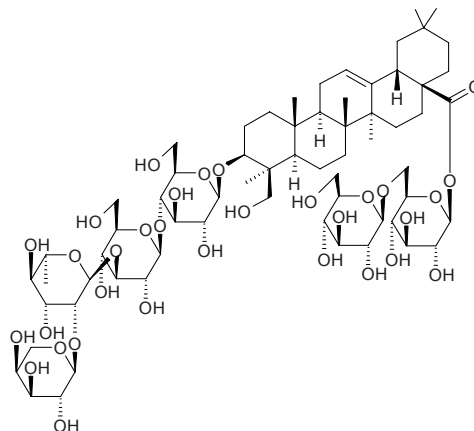
$C_{42}H_{85}NO_5$ (684.15). Colorless powder, mp 129°C, $[\alpha]_D^{20} = +12^\circ$ ($c = 0.001$). Pharm: Herbicide inactive (*Chlorella fysca*); antifungal inactive (*Ustilago violacea*); antibacterial inactive (gram-positive bacteria *Bacillus megaterium*). Source: FEI ZHOU ZI WEI *Newbouldia laevis* (seed, root cortex and stem cortex). Ref: 4467.

**15519 Newbouldiaquinone**

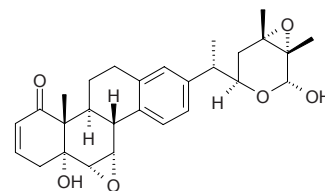
$C_{25}H_{14}O_5$ (394.39). Yellow powder, mp 206°C. Pharm: Antibacterial (gram-positive bacteria *Bacillus megaterium*); herbicide inactive (*Chlorella fysca*). Source: FEI ZHOU ZI WEI *Newbouldia laevis* (seed, root cortex and stem cortex). Ref: 4467.

**15520 New triterpenoid glycoside**

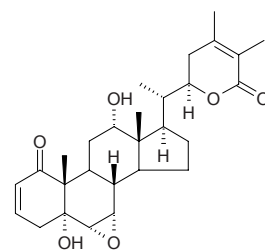
3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-hederagenin-28-*O*- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranosyl ester $C_{65}H_{106}O_{32}$ (1399.55). White powder, mp 223~225°C. Source: JIN YIN HUA *Lonicera japonica*. Ref: 895.

**15521 Nicandrenone II**

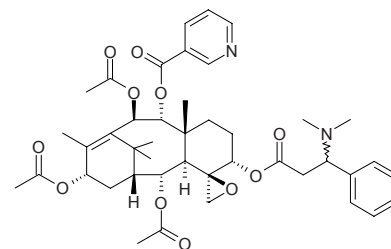
[40071-64-5] $C_{28}H_{34}O_6$ (466.58). Crystals (benzene-chloroform), mp 117°C. Pharm: Insect antifeedant and Insecticidal. Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 6, 900, 1521, 2783.

**15522 Nicandrin B**

[92070-79-6] $C_{28}H_{38}O_6$ (470.61). Crystals (MeOH), mp 246~248°C, $[\alpha]_D = +110.7^\circ$ ($c = 0.24$, $CHCl_3$). Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 2658, 2659.

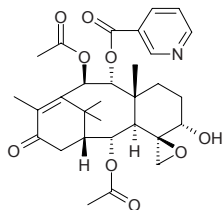
**15523 Nicaustrine**

[127211-02-3] $C_{43}H_{54}N_2O_{11}$ (774.92). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

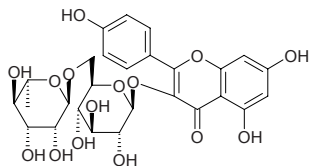


15524 Nicotaxine

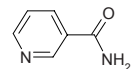
[126585-94-2] C₃₀H₃₇NO₉ (555.63). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**15525 Nicotiflorin**

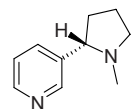
Kaempferol-3-*O*- β -rutinoside; Kaempferol 3-*O*-(6''-*O*- α -rhamonpyranosyl)- β -glucopyranoside [17650-84-9] C₂₇H₃₀O₁₅ (594.53). mp 224°C. Pharm: Antioxidant (DPPH scavenger, IC₅₀ > 100 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ > 50 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL)^[5239]. Source: BAI GUO YE *Ginkgo biloba*, BI MA YE *Ricinus communis*, CI JI LI *Tribulus terrestris*, HUAI *Sophora japonica* (pericarp)^[3080], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0011%dw)^[3014], LAO YA SHI *Diospyros rhombifolia* (leaf), MIAN TOU YE *Kleinhovia hospita*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], YI ZHU QIAN MA *Urtica dioica*, *Glycyrrhiza* sp. Ref: 6, 660, 2431, 3014, 3080, 4464, 5239.

**15526 Nicotinamide**

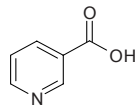
Niacin [98-92-0] C₆H₆N₂O (122.13). Pharm: Tyrosinase inhibitor (333.3 μ mol/L, InRt = 13.5%; control Kojic acid, 333.3 μ mol/L, InRt = 59.8%)^[4233]; antiarrhythmic; component of coenzyme I and II (coenzyme of many dehydrogenases); used in treatment of pellagrosis, stomatitis and glossitis. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), ZANG HONG HUA *Crocus sativus* (pollen), ZHI MU *Anemarrhena asphodeloides*. Ref: 2, 658, 4233, 4488.

**15527 (-)-Nicotine**

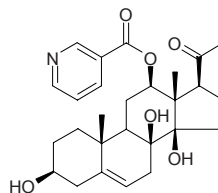
3-Pyridinecarboxamide [54-11-5] C₁₀H₁₄N₂ (162.24). bp 246.1°C/730.5mmHg. Pharm: Anti-fertility agent (male mus); pesticide; LD (hmn, orl) = 50mg. Source: DANG SHEN *Codonopsis pilosula*, GU JIE CAO *Equisetum palustre*, HUANG HUA YAN CAO *Nicotiana rustica*, KU DOU ZI *Sophora alopecuroides*, MA TI YE *Caltha palustris*, MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*], PU DI WU GONG *Lycopodium cernuum*, WEN JING *Equisetum arvense*, XU LI YA MA LI JIN *Asclepias syriaca*, YAN CAO *Nicotiana tabacum*. Ref: 2, 593, 658, 5507.

**15528 Nicotinic acid**

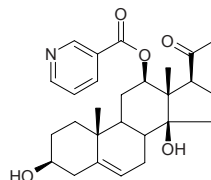
3-(1-Methyl-2-pyrrolidinyl)pyridine [59-67-6] C₆H₅NO₂ (123.11). mp 236°C. Pharm: Antihypercholesterolemic; vasodilator (peripheral). Source: DA ZAO *Ziziphus jujuba*, DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, DONG GUA PI *Benincasa hispida*, GOU QI ZI *Lycium chinense*, JI ZI HUANG *Gallus gallus domesticus*, JIANG *Glycine max*, LI YU *Cyprinus carpio*, MAO SHU *Dioscorea alata*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), YANG RU *Capra hircus*; *Ovis aries*, YUAN CAN E *Bombyx mori*, ZHI MU *Anemarrhena asphodeloides*, ZI CAI *Porphyra tenera*. Ref: 2, 658, 660, 1521, 4483.

**15529 12-O-Nicotinoylisolineolone**

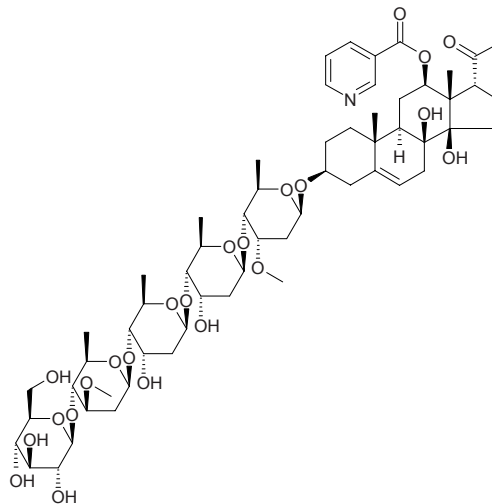
C₂₇H₃₅NO₆ (469.58). mp 250–254°C. Source: FU SHOU CAO *Adonis amurensis*. Ref: 6.

**15530 Nicotinoylisoramanone**

C₂₇H₃₅NO₅ (453.58). Source: FU SHOU CAO *Adonis amurensis*. Ref: 6, 2784.

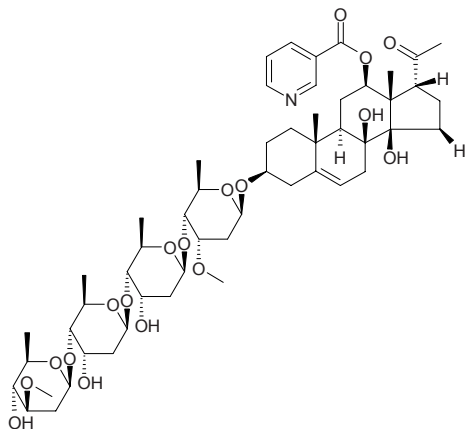
**15531 12-O-Nicotinoyllineolon 3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside**

C₅₉H₈₉NO₂₃ (1180.36). Amorphous powder, [α]_D²⁷ = -12.1° (c = 0.45, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



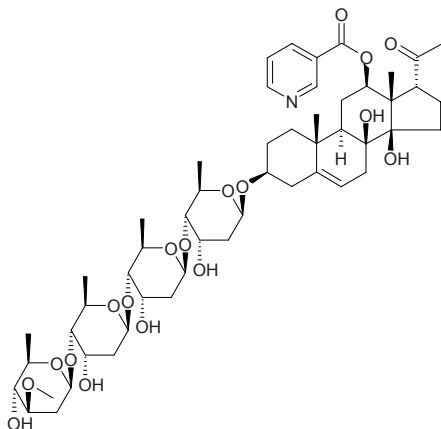
15532 12-O-Nicotinoylneolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside

C₅₃H₇₉NO₁₈ (1018.22). Amorphous powder, $[\alpha]_D^{21} = -14.4^\circ$ ($c = 0.33$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



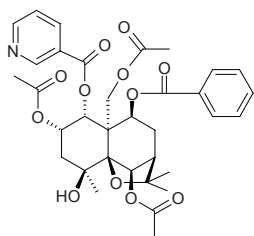
15533 12-O-Nicotinoylneolon 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside

C₅₂H₇₇NO₁₈ (1004.19). Amorphous powder, $[\alpha]_D^{24} = -19.1^\circ$ ($c = 0.57$, MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



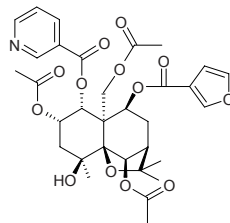
15534 1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -benzoyloxy-11-acetoxy-4 β -hydroxydihydro- β -agarofuran

[130774-23-1] C₃₄H₃₉NO₁₂ (653.69). Amorphous solid, $[\alpha]_D^{20} = +43.9^\circ$ ($c = 0.5$, MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



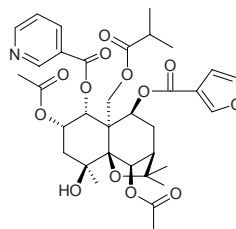
15535 1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -furoyloxy-11-acetoxy-4 β -hydroxydihydro- β -agarofuran

[130774-22-0] C₃₂H₃₇NO₁₃ (643.65). Amorphous solid, $[\alpha]_D^{20} = +23.9^\circ$ ($c = 0.5$, MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



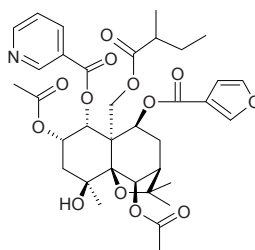
15536 1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -furoyloxy-11-isobutyryloxy-4 β -hydroxydihydro- β -agarofuran

[130774-20-8] C₃₄H₄₁NO₁₃ (671.70). mp 127~128°C, $[\alpha]_D^{20} = +34.5^\circ$ ($c = 0.5$, MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



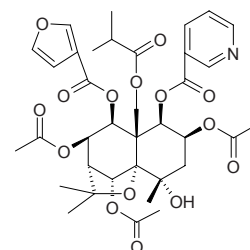
15537 1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -furoyloxy-11-(2-methyl)butyryloxy-4 β -hydroxydihydro- β -agarofuran

[130774-21-9] C₃₅H₄₃NO₁₃ (685.73). Amorphous solid, $[\alpha]_D^{20} = +30.1^\circ$ ($c = 0.5$, MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



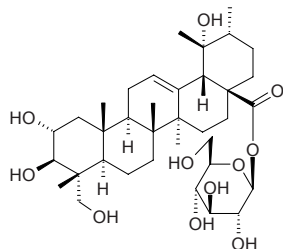
15538 1 β -Nicotinoyl-2 β ,5 α ,7 β -triacetoxy-4 α -hydroxy-11-isobutyryloxy-8 α -furanoyl-dihydroagarofuran

C₃₆H₄₃NO₁₅ (729.74). Amorphous powder, $[\alpha]_D^{25} = +9.2^\circ$ ($c = 1.2$, MeOH). Pharm: Immunosuppressant (inhibits lymphocyte transformation, 80 μ g/mL, InRt = 28%, control Dexamethasone, 50 μ g/mL, InRt = 61%). Source: LEI GONG TENG *Tripterygium wilfordii* (xylem). Ref: 4466.

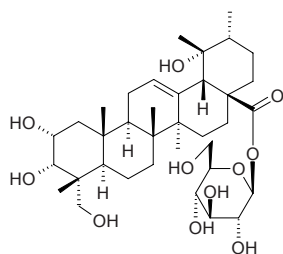


15539 Niga-ichigoside F₁

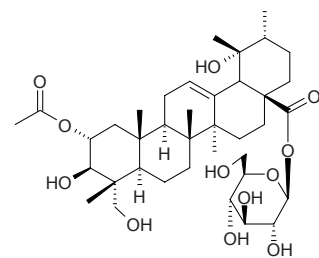
$C_{36}H_{58}O_{11}$ (666.86). Amorphous powder or needles (MeOH aq.), mp 230–231°C, 229–233°C. $[\alpha]_D^{23} = +11.2^\circ$ ($c = 0.93$, MeOH). Source: CU YE XUAN GOU ZI *Rubus alceaefolius*, MAO MEI *Rubus parvifolius*, SHUI YANG MEI *Geum japonicum*, DUO CI DI SHI MU *Desfontainia spinosa*, XIA KU CAO *Prunella vulgaris*, XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 509, 606, 660, 1521, 2508.

**15540 Niga-ichigoside F₂**

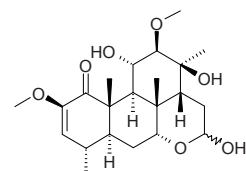
$C_{36}H_{58}O_{11}$ (666.86). White needles (MeOH), mp 214–216°C. Source: GUANG LIANG YANG TONG *Adinandra nitida*, XIA KU CAO *Prunella vulgaris*, XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 660, 2508, 2518.

**15541 Niga-ichigoside F₃**

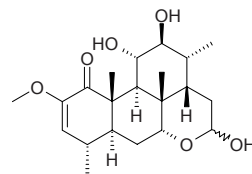
$C_{38}H_{60}O_{12}$ (708.89). Source: XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 660.

**15542 Nigakihemiacetal A**

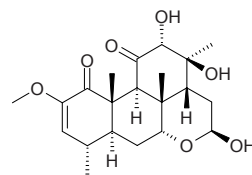
[30248-05-6] $C_{22}H_{34}O_7$ (410.51). mp 262–263°C. Pharm: Extremely bitter. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 6, 658.

**15543 Nigakihemiacetal C**

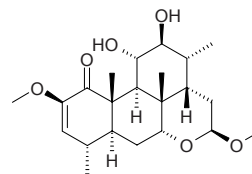
[30760-22-6] $C_{21}H_{32}O_6$ (380.49). mp 265.0–265.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**15544 Nigakihemiacetal E**

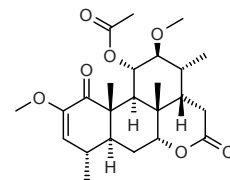
[57576-45-1] $C_{21}H_{30}O_7$ (394.47). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15545 Nigakihemiacetal F**

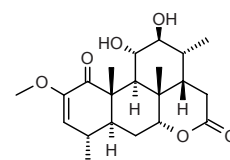
[57576-46-2] $C_{22}H_{34}O_6$ (394.51). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15546 Nigakilactone C**

Nigakilactone [24148-78-5] $C_{24}H_{34}O_7$ (434.53). mp 252.5–253.0°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 660.

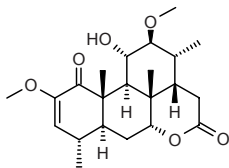
**15547 Nigakilactone A**

[24148-76-3] $C_{21}H_{30}O_6$ (378.47). mp 237.5–238.0°C. Pharm: Antihypertensive. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (dried branch and leaf), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 5501.

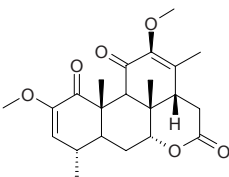


15548 Nigakilactone B

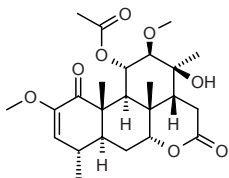
Simalikalactone A [24148-77-4] $C_{22}H_{32}O_6$ (392.50). mp 278.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15549 Nigakilactone D**

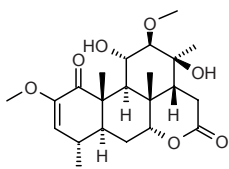
[76-78-8] $C_{22}H_{28}O_6$ (388.46). Crystals (MeOH aq.), mp 221~222°C, $[\alpha]_D^{20} = +34.5^\circ$ ($c = 5.09$, $CHCl_3$). Pharm: Insecticidal. Source: MEI ZHOU KU MU *Quassia amara*, YA MAI JIA KU MU *Picrasma excelsa*. Ref: 1521.

**15550 Nigakilactone E**

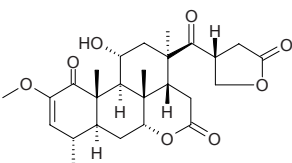
[28360-79-4] $C_{24}H_{34}O_8$ (450.53). mp 280°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15551 Nigakilactone F**

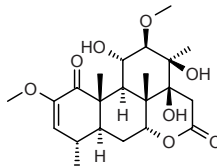
[28387-43-1] $C_{22}H_{32}O_7$ (408.50). mp 265.0~265.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15552 Nigakilactone G**

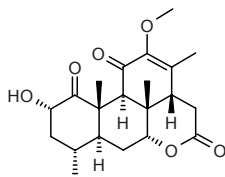
Picrasin A [27368-79-2] $C_{26}H_{34}O_8$ (474.56). Crystals (MeOH), mp 297~299°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 2994.

**15553 Nigakilactone H**

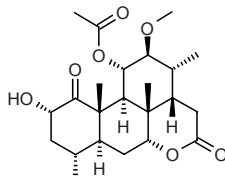
[30248-06-7] $C_{22}H_{32}O_8$ (424.50). mp 274.0~275.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15554 Nigakilactone I**

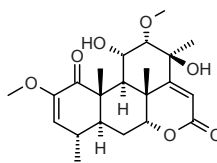
Picrasin B [26121-56-2] $C_{21}H_{28}O_6$ (376.45). Crystals (MeOH), mp 255~257°C, $[\alpha]_D = +16.4^\circ$ ($CHCl_3$). Source: FEI ZHOU KU MU *Quassia africana*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521, 2994.

**15555 Nigakilactone J**

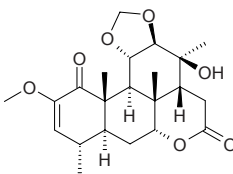
Picrasin C [33804-89-6] $C_{23}H_{34}O_7$ (422.52). Crystals ($CHCl_3$ -pet. ether), mp 240~241°C, 250~252°C, $[\alpha]_D = +42^\circ$ (EtOH). Pharm: Bitter principle. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], DU DOU *Laburnum anagyroides*, *Picea* sp., *Pinus* sp. Ref: 6, 12, 658, 2994.

**15556 Nigakilactone K**

[35334-39-5] $C_{22}H_{30}O_7$ (406.48). mp 226~227°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

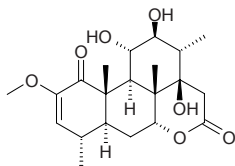
**15557 Nigakilactone L**

[35334-40-8] $C_{22}H_{30}O_7$ (406.48). mp 296°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

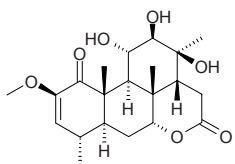


15558 Nigakilactone M

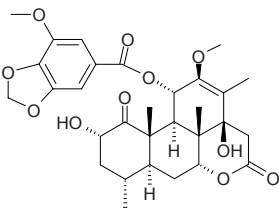
[37812-54-7] $C_{21}H_{30}O_7$ (394.47). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15559 Nigakilactone N**

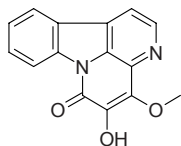
[37812-55-8] $C_{21}H_{30}O_7$ (394.47). mp 207~211°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15560 Nigakilactone O**

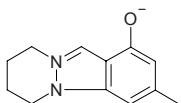
$C_{30}H_{36}O_{11}$ (572.61). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15561 Nigakinone**

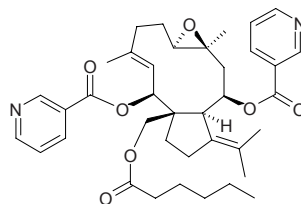
4-Methoxy-5-hydroxycanthin-6-one [18110-86-6] $C_{15}H_{10}N_2O_3$ (266.26). Pharm: Antibacterial (*Diplococcus pneumoniae*, hemolytic β -streptococcus and *Bacillus subtilis*); LD₅₀ (mus ip) = 210mg/kg. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (dried branch and leaf: content scope of 5 origins = 0.03%~0.288%, mean content = 0.147%^[5508]), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], YA MAI JIA KU MU *Picrasma excelsa*, MEI ZHOU KU MU *Quassia amara* (the compound was isolated from the plant by Yushiro Kimura et al. in 1961)^[5505]. Ref: 6, 12, 658, 5501, 5505, 5508.

**15562 Nigeglanine**

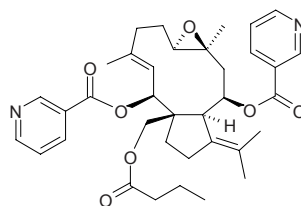
$C_{12}H_{14}N_2O^-$ (203.27). White solid, mp 289~290°C. Source: XIAN MAO HEI ZHONG CAO *Nigella glandulifera* (seed). Ref: 4277.

**15563 Nigellamine A₃**

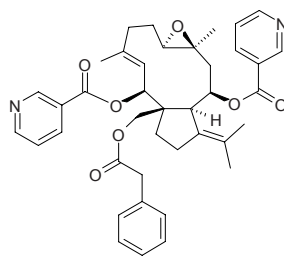
$C_{38}H_{48}N_2O_7$ (644.82). White powder, $[\alpha]_D^{27} = -11.3^\circ$ ($c = 0.50$, $CHCl_3$). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1 μ mol/L, stored triglyceride = (85 \pm 6)% of control, $p < 0.05$). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

**15564 Nigellamine A₄**

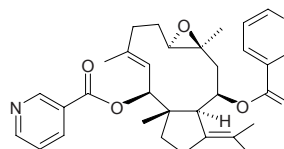
$C_{36}H_{44}N_2O_7$ (616.76). White powder, $[\alpha]_D^{26} = -13.4^\circ$ ($c = 0.20$, $CHCl_3$). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1 μ mol/L, stored triglyceride = (82 \pm 3)% of control, $p < 0.01$). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

**15565 Nigellamine A₅**

$C_{40}H_{44}N_2O_7$ (664.81). White powder, $[\alpha]_D^{28} = -14.8^\circ$ ($c = 0.20$, $CHCl_3$). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1 μ mol/L, stored triglyceride = (66 \pm 2)% of control, $p < 0.01$). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

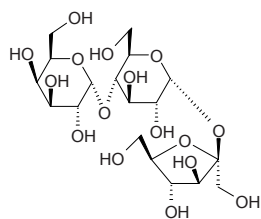
**15566 Nigellamine C**

$C_{32}H_{38}N_2O_5$ (530.67). White powder, $[\alpha]_D^{27} = -23.6^\circ$ ($c = 0.30$, $CHCl_3$). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1 μ mol/L, stored triglyceride = (81 \pm 1)% of control, $p < 0.01$). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

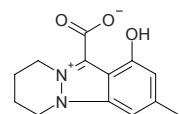


15567 Nigellamose

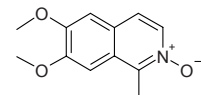
$C_{18}H_{32}O_{16}$ (504.45). White cubic crystals, mp 132–134°C, $[\alpha]_D^{20} = +94.5^\circ$ ($c = 0.046$, MeOH). [Source](#): XIAN MAO HEI ZHONG CAO *Nigella glandulifera* (seed). [Ref](#): 4820.

**15568 Nigellicine**

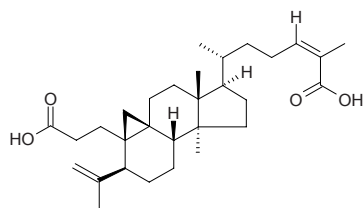
[98063-20-8] $C_{13}H_{14}N_2O_3$ (246.27). Yellow crystals (EtOH), decomposition over a wide temperature range. [Source](#): ZAI PEI HEI ZHONG CAO *Nigella sativa*. [Ref](#): 2661.

**15569 Nigellimine N-oxide**

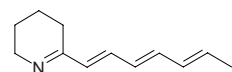
$C_{12}H_{13}NO_3$ (219.24). Amorphous. [Source](#): ZAI PEI HEI ZHONG CAO *Nigella sativa*. [Ref](#): 2662.

**15570 Nigranoic acid**

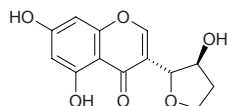
[39111-07-4] $C_{30}H_{46}O_4$ (470.70). [Pharm](#): Anti-HIV (HIV-RT inhibitor and HIV polyase inhibitor); antineoplastic^[2523]; anti-HIV^[2523]. [Source](#): HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, NEI FENG XIAO WU WEI ZI *Schisandra nigra*, QIU RUI WU WEI ZI *Schisandra sphaerandra*. [Ref](#): 1521, 2268, 2523.

**15571 Nigrifactin**

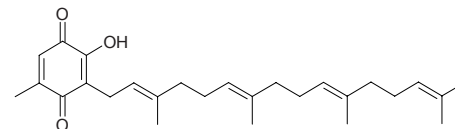
[23943-03-5] $C_{12}H_{17}N$ (175.28). [Pharm](#): Antihistamine. [Source](#): unsteadiness mould's metabolite. [Ref](#): 658.

**15572 Nigrolineaisoflavone A**

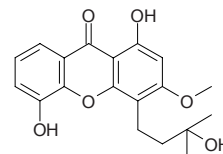
$C_{13}H_{12}O_6$ (264.24). Pale yellow crystals, mp 186–187°C, $[\alpha]_D^{29} = -62.5^\circ$ ($c = 0.016$, MeOH). [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000394%dw). [Ref](#): 4735.

**15573 Nigrolineaquinone A**

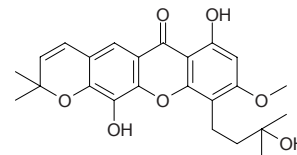
$C_{27}H_{38}O_3$ (410.6). Orange-red gum. [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0001%dw). [Ref](#): 4735.

**15574 Nigrolineaxanthone A**

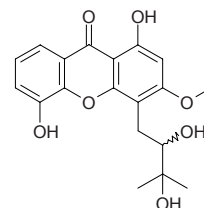
1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)xanthone $C_{19}H_{20}O_6$ (344.37). Yellow solid, mp 142.8–144.6°C. [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). [Ref](#): 3482.

**15575 Nigrolineaxanthone B**

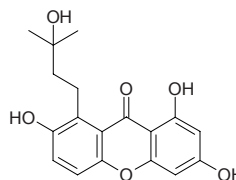
1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)-6',6'-dimethylpyrano-(2',3':6,7) xanthone $C_{24}H_{26}O_7$ (426.47). Yellow crystals, mp 165.0–167.2°C. [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). [Ref](#): 3482.

**15576 Nigrolineaxanthone C**

1,5-Dihydroxy-3-methoxy-4-(2,3-dihydroxy-3-methylbutyl)xanthone $C_{19}H_{20}O_7$ (360.37). Pale yellow solid, mp 104.5–105.8°C, $[\alpha]_D^{29} = -43.5^\circ$ ($c = 0.023$, EtOH). [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). [Ref](#): 3482.

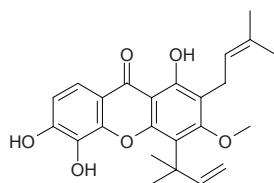
**15577 Nigrolineaxanthone D**

1,3,7-Trihydroxy-8-(3-hydroxy-3-methylbutyl)xanthone $C_{18}H_{18}O_6$ (330.34). Pale yellow solid, mp 196.0–197.8°C. [Source](#): HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). [Ref](#): 3482.

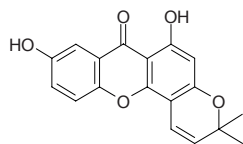


15578 Nigrolineaxanthone E

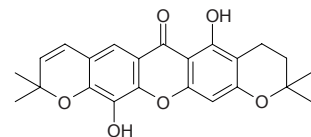
1,5,6-Trihydroxy-3-methoxy-2-(3-methyl-2-butenyl)-4-(1,1-dimethylallyl)xan-
thone $C_{24}H_{26}O_6$ (410.47). Pale yellow solid, mp 102.5–103.8°C. Source: HEI
XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15579 Nigrolineaxanthone F**

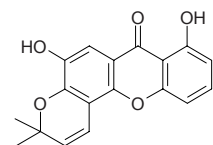
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':3,4)xan-
thone $C_{18}H_{14}O_5$ (310.31).
Yellow solid, mp 235.9–236.5°C. Source: HEI XIAN TIAO TENG HUANG
Garcinia nigrolineata (stam bark). Ref: 3482.

**15580 Nigrolineaxanthone G**

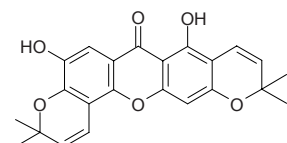
1,5-Dihydroxy-6',6'-dimethyldihydropyrano(2',3':3,2)-
6'',6''-dimethylpyrano-(2'',3'':6,7)xan-
thone $C_{23}H_{22}O_6$ (394.43). Yellow solid,
mp 205.8–207.2°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia*
nigrolineata (stam bark). Ref: 3482.

**15581 Nigrolineaxanthone H**

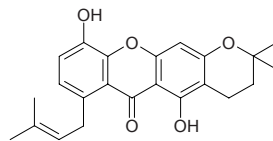
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':6,5)xan-
thone $C_{18}H_{14}O_5$ (310.31).
Yellow crystals, mp 220.1–222.5°C. Source: HEI XIAN TIAO TENG
HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15582 Nigrolineaxanthone I**

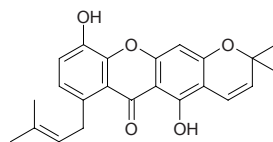
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':3,2)-6'',6''-dimethylpyrano(2'',3'':6,5)
xan-
thone $C_{23}H_{20}O_6$ (392.41). Yellow solid, mp 241.7–243.5°C. Source: HEI
XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15583 Nigrolineaxanthone J**

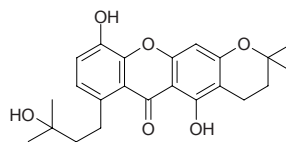
$C_{23}H_{24}O_5$ (380.44). Pale yellow gum. Pharm: Antibacterial inactive (MRSA).
Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield
= 0.000136%dw). Ref: 4735.

**15584 Nigrolineaxanthone K**

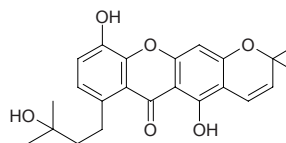
$C_{23}H_{22}O_5$ (378.43). Yellow gum. Pharm: Antibacterial inactive (MRSA).
Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield
= 0.00011%dw). Ref: 4735.

**15585 Nigrolineaxanthone L**

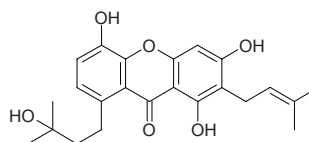
$C_{23}H_{26}O_6$ (398.46). Yellow gum. Pharm: Antibacterial inactive (MRSA).
Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield
= 0.0001%dw). Ref: 4735.

**15586 Nigrolineaxanthone M**

$C_{23}H_{24}O_6$ (396.44). Yellow solid, mp 161–162°C. Pharm: Antibacterial
inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia*
nigrolineata (leaf: yield = 0.000056%dw). Ref: 4735.

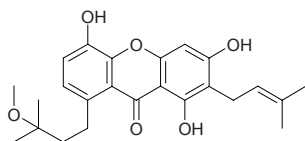
**15587 Nigrolineaxanthone N**

$C_{23}H_{26}O_6$ (398.46). Yellow solid, mp 199–200°C. Pharm: Antibacterial
(MRSA, MIC = 4µg/mL; control Vancomycin, MIC = 2µg/mL). Source: HEI
XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield =
0.00062%dw). Ref: 4735.

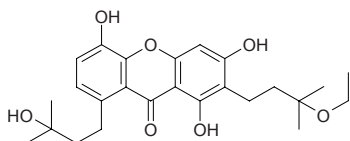


15588 Nigrolineaxanthone O

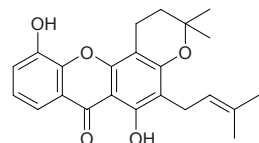
$C_{24}H_{28}O_6$ (412.49). Pale yellow gum. **Pharm:** Antibacterial inactive (MRSA). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00017%dw). **Ref:** 4735.

**15589 Nigrolineaxanthone P**

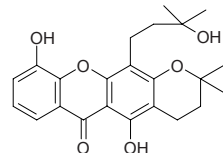
$C_{25}H_{32}O_7$ (444.53). Pale yellow gum. **Pharm:** Antibacterial inactive (MRSA). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00025%dw). **Ref:** 4735.

**15590 Nigrolineaxanthone Q**

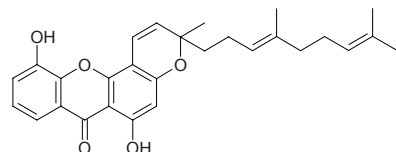
$C_{23}H_{24}O_5$ (380.44). Yellow gum. **Pharm:** Antibacterial inactive (MRSA). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000072%dw). **Ref:** 4735.

**15591 Nigrolineaxanthone R**

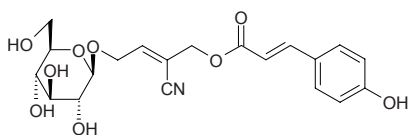
$C_{23}H_{26}O_6$ (398.46). Yellow gum. **Pharm:** Antibacterial inactive (MRSA). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000104%dw). **Ref:** 4735.

**15592 Nigrolineaxanthone S**

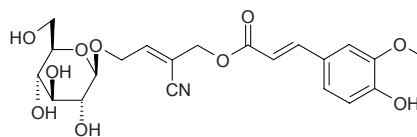
$C_{28}H_{30}O_5$ (446.55). Yellow gum, $[\alpha]_D^{29} = +58.8^\circ$ ($c = 0.017$, MeOH). **Pharm:** Antibacterial inactive (MRSA). **Source:** HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000104%dw). **Ref:** 4735.

**15593 Nigrumin-5-p-coumarate**

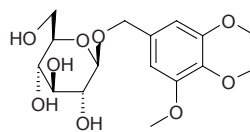
(2-*trans-p*-coumaroyloxymethyl-4- β -D-glucopyranosyloxy-2(*E*)-butenenitrile) $C_{20}H_{23}NO_9$ (421.41). **Source:** HEI CHA BIAO *Ribes nigrum*. **Ref:** 2000.

**15594 Nigrumin-5-ferulate**

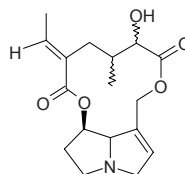
(2-*trans*-Feruloyloxymethyl-4- β -D-glucopyranosyloxy-2(*E*)-butenenitrile) $C_{21}H_{25}NO_{10}$ (451.43). **Source:** HEI CHA BIAO *Ribes nigrum*. **Ref:** 2000.

**15595 Nikoenoside**

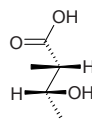
$C_{16}H_{24}O_9$ (360.36). White powder, $[\alpha]_D^{22} = -57.7^\circ$ ($c = 0.20$, EtOH). **Source:** MAO GUO QI *Acer nikoense* (stem cortex: yield = 0.0015%). **Ref:** 4304.

**15596 Nilgirine**

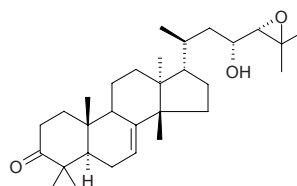
[21009-05-2] $C_{17}H_{23}NO_5$ (321.38). mp 127–128°C. **Source:** XIANG LING CAO *Crotalaria ferruginea*. **Ref:** 6.

**15597 Nilic acid**

[473-86-9] $C_5H_{10}O_3$ (118.13). **Source:** QIAN NIU ZI *Pharbitis nil*. **Ref:** 6.

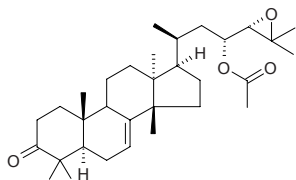
**15598 Niloticin**

[115404-57-4] $C_{30}H_{48}O_3$ (456.72). Needles, mp 147°C, $[\alpha]_D = -62^\circ$ ($c = 0.08$, $CHCl_3$); colorless needles, mp 149–151°C, $[\alpha]_D^{25} = -82.6^\circ$ ($c = 1.0$, MeOH). **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 1.5\mu g/mL$; KB, $ED_{50} = 8.3\mu g/mL$). **Source:** BAI YE MI ZI LAN *Aglaiia leucophylla*, HUANG BAI *Phellodendron amurense*, HUANG PI SHU *Phellodendron chinense*, CHANG YE KUAN MU *Eurycoma longifolia*, NI LUO HE JIN YIN LIAN *Turraea nilotica*. **Ref:** 2663, 2664, 2665, 2666, 2667, 2668.

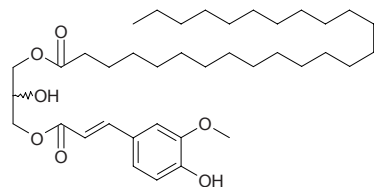


15599 Niloticin acetate

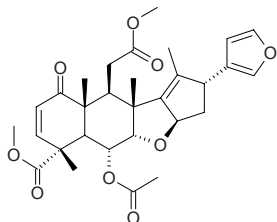
[116425-97-9] C₃₂H₅₀O₄ (498.75). Needles, mp 157grade, [α]_D = -75gree (c = 0.035, CHCl₃). Source: HUANG PI SHU *Phellodendron chinense*, CHANG YE KUAN MU *Eurycoma longifolia*. Ref: 2663, 2664, 2665.

**15600 Niloticol**

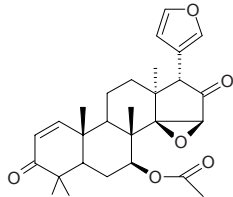
[110037-32-6] C₃₈H₆₄O₇ (632.93). Crystals (acetone, di-Ac compound), mp 68°C (di-Ac compound). Source: NI LUO HE CHENG LIU *Tamarix nilotica* (root). Ref: 2774.

**15601 Nimbin**

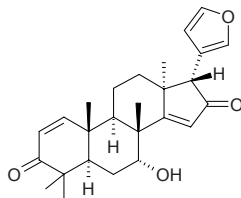
[5945-86-8] C₃₀H₃₆O₉ (540.62). Crystals (MeOH), mp 205°C, [α]_D = +170°. Source: YIN JIAN *Melia indica*, *Melia azadirachta*. Ref: 2669.

**15602 Nimbinin**

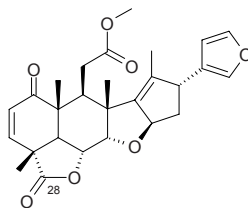
[18385-59-6] C₂₈H₃₄O₆ (466.58). Crystals (MeOH), mp 202~204°C, [α]_D = +45° (CHCl₃). Source: YIN JIAN *Melia indica*, *Melia azadirachta*. Ref: 2670.

**15603 Nimbocinol**

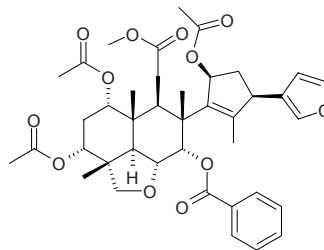
[101509-58-4] C₂₆H₃₂O₄ (408.54). mp 160~161°C, [α]_D²⁵ = -14.28° (CHCl₃). Pharm: Pesticide (inhibits growth of *Heliothis virescens*, EC₅₀ = 1600mg/L). Source: KU LIAN PI *Melia azedarach*. Ref: 1521, 2671.

**15604 Nimbolide**

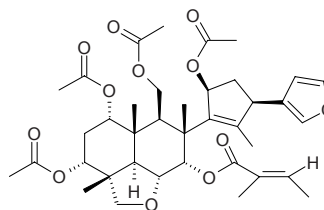
[25990-37-8] C₂₇H₃₀O₇ (466.54). Crystals (MeOH), mp 245~247°C, 228~230°C, [α]_D = +206°. Source: *Melia azadirachta*. Ref: 2672.

**15605 Nimbolidin A**

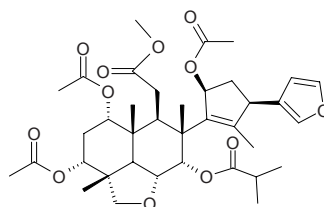
C₄₀H₄₈O₁₂ (720.82). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**15606 Nimbolidin B**

[76689-94-6] C₃₈H₅₀O₁₂ (698.81). Amorphous powder, [α]_D²³ = -7° (c = 0.15, methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: KU LIAN PI *Melia azedarach*, CHUAN LIAN ZI *Melia toosendan*. Ref: 939, 1113.

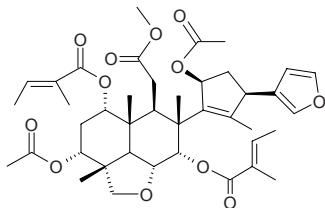
**15607 Nimbolidin C**

[169056-26-2] C₃₇H₅₀O₁₂ (686.80). Amorphous powder, [α]_D²³ = +14° (c = 0.3, methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: CHUAN LIAN ZI *Melia toosendan*. Ref: 1113.

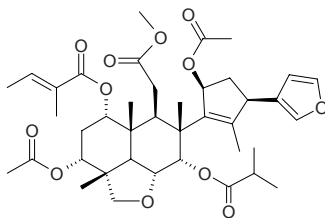


15608 Nimbolidin D

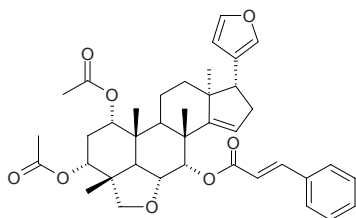
[169056-28-4] C₄₁H₅₄O₁₂ (738.87). Amorphous powder, $[\alpha]_D^{22} = -55^\circ$ ($c = 0.6$, methanol). **Pharm:** Insect antifeedant (larva of night moth, 500mg/L). **Source:** CHUAN LIAN ZI *Melia toosendan*. **Ref:** 1113.

**15609 Nimbolidin E**

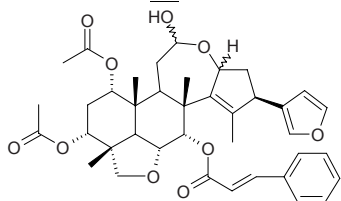
[169056-27-3] C₄₀H₅₄O₁₂ (726.86). Amorphous powder, $[\alpha]_D^{22} = +4^\circ$ ($c = 0.4$, methanol). **Pharm:** Insect antifeedant (larva of night moth, 500mg/L). **Source:** CHUAN LIAN ZI *Melia toosendan*. **Ref:** 1113.

**15610 Nimbolin A**

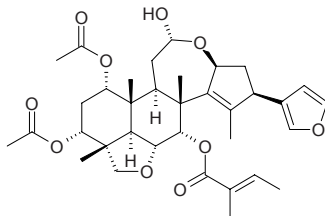
[24480-41-9] C₃₉H₄₆O₈ (642.80). mp 180–183°C. **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.

**15611 Nimbolin B**

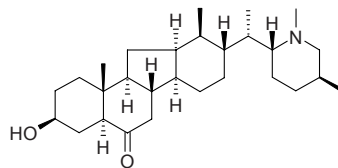
[24480-42-0] C₃₉H₄₆O₁₀ (674.80). mp 243–245°C. **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.

**15612 Nimbolin B**

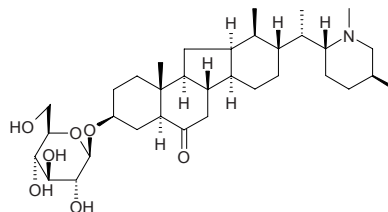
C₃₅H₄₆O₁₀ (626.75). Amorphous powder, $[\alpha]_D = -42^\circ$ ($c = 0.095$). **Source:** CHUAN LIAN PI *Melia toosendan*. **Ref:** 2374.

**15613 Ningpeisine**

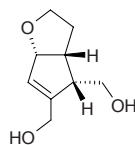
N-Methyl-3 β -hydroxy-5 α -veratranine-6-one [117695-02-0] C₂₈H₄₇NO₂ (429.69). Colorless acicular clustered crystals, mp 228–230°C, $[\alpha]_D^{20} = +20^\circ$ ($c = 0.5$, anhydrous ethanol). **Source:** NING GUO BEI MU *Fritillaria ningguoensis*. **Ref:** 105.

**15614 Ningpeisinoid**

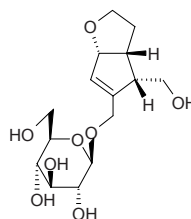
N-Methyl-5 α -veratranine-6-oxo-3 β -*O*- β -D-glucoside [139742-29-3] C₃₄H₅₇NO₇ (591.84). Thin acicular crystals, mp 284–286°C, $[\alpha]_D^{20} = +24^\circ$ ($c = 0.4$, chloroform:ethanol = 4:1). **Pharm:** Antitussive (dispels phlegm). **Source:** NING GUO BEI MU *Fritillaria ningguoensis*. **Ref:** 205.

**15615 Ningpogenin**

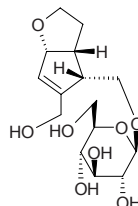
C₉H₁₄O₃ (170.21). Oil, $[\alpha]_D = +16.0^\circ$ ($c = 1$, MeOH). **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 2673.

**15616 Ningpogoside A**

C₁₅H₂₄O₈ (332.35). **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 2674.

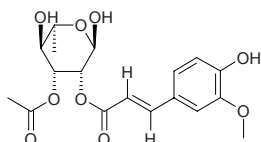
**15617 Ningpogoside B**

C₁₅H₂₄O₈ (332.35). **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 2674.

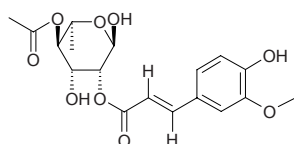


15618 Ningposide A

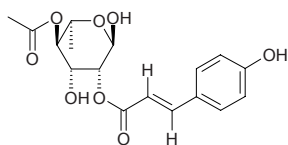
3-*O*-Acetyl-2-*O*-feruloyl- α -*L*-rhamnopyranose C₁₈H₂₂O₉ (382.37). Oil, $[\alpha]_D^{20}$ = 116.29° (c = 0.63, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 674, 741.

**15619 Ningposide B**

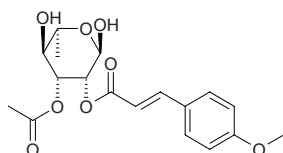
4-*O*-Acetyl-2-*O*-feruloyl- α -*L*-rhamnopyranose C₁₈H₂₂O₉ (382.37). Oil, $[\alpha]_D^{20}$ = 87.23° (c = 0.241, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 741.

**15620 Ningposide C**

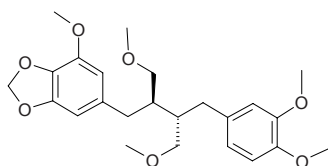
C₁₇H₂₀O₈ (352.34). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 741.

**15621 Ningposide D**

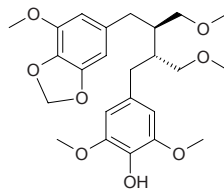
3-*O*-Acetyl-2-*O*-*p*-methoxycinnamoyl- α (β)-*L*-rhamnopyranose C₁₈H₂₂O₈ (366.37). Oil, $[\alpha]_D^{25}$ = +42.0° (c = 0.2, CHCl₃). Pharm: Cytotoxic inactive (MCF7, IC₅₀ > 100 μmol/L, control Adriamycin, IC₅₀ = (1.5±0.2) μmol/L; K562, IC₅₀ > 100 μmol/L, Adriamycin, IC₅₀ = (0.45±0.01) μmol/L; Bowes, IC₅₀ > 100 μmol/L, Adriamycin, IC₅₀ = (0.45±0.01) μmol/L; T24S, IC₅₀ > 100 μmol/L, Adriamycin, IC₅₀ = (5.8±0.6) μmol/L; A549, IC₅₀ > 100 μmol/L, Adriamycin, IC₅₀ = (15.8±6.7) μmol/L). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 5288.

**15622 Niranthin**

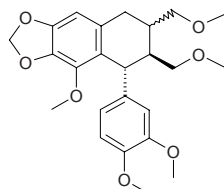
[50656-77-4] C₂₄H₃₂O₇ (432.52). Crystals (hexane), mp 67–69°C, $[\alpha]_D^{30}$ = +28° (c = 1.29, CHCl₃). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2675, 2676.

**15623 Nirphyllin**

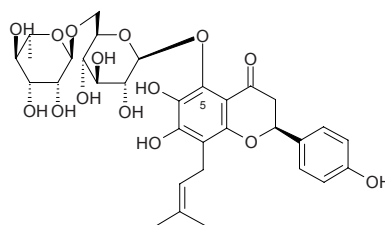
[120396-54-5] C₂₄H₃₂O₈ (448.52). Pharm: Antihepatotoxin. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2677.

**15624 Nirtetralin**

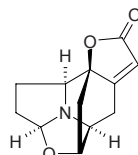
[50656-78-5] C₂₄H₃₀O₇ (430.50). Crystals (hexane), mp 55°C, $[\alpha]_D$ = +14.39° (c = 1.39, CHCl₃). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2675, 2676.

**15625 Nirurin**

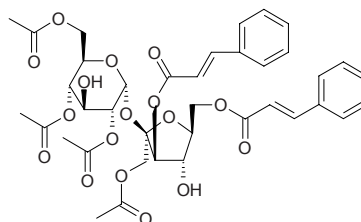
[96253-68-8] C₃₂H₄₀O₁₅ (664.67). Crystals (MeOH), mp 298–299°C (dec). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2678.

**15626 Nirurine**

[105801-14-7] C₁₂H₁₃NO₃ (219.24). Crystals (CHCl₃-2-propanol), mp 205–209°C, $[\alpha]_D$ = +196°. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2679.

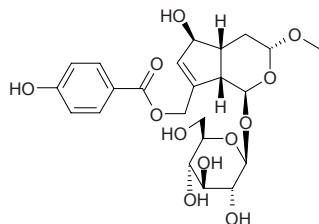
**15627 Niruriside**

[173268-90-1] C₃₈H₄₂O₁₇ (770.75). White amorphous powder. Pharm: Anti-HIV. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2680.

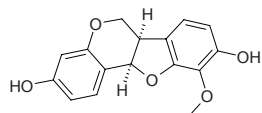


15628 Nishindaside

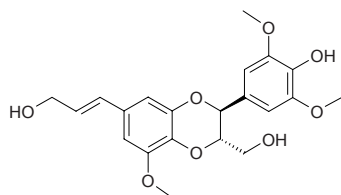
[88204-92-6] C₂₃H₃₀O₁₂ (498.49). Amorphous powder, $[\alpha]_D^{25} = -83.5^\circ$ ($c = 1$, MeOH). Source: HUANG JING YE *Vitex negundo*. Ref: 2681.

**15629 (-)-Nissolin**

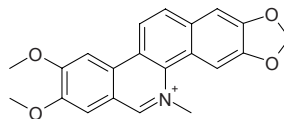
[73340-42-8] C₁₆H₁₄O₅ (286.29). Pharm: Antifungal. Source: HE CAO XIANG WAN DOU *Lathyrus nissolia*. Ref: 658, 2785.

**15630 7S,8S-Nitidanin**

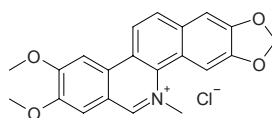
C₂₁H₂₄O₈ (404.42). Colorless oil, $[\alpha]_D^{20} = -16.0^\circ$ ($c = 0.5$, MeOH). Source: TAN XIANG *Santalum album* (heartwood). Ref: 4468.

**15631 Nitidine**

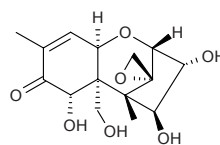
[76872-57-7] C₂₁H₁₈NO₄⁺ (348.38). mp 215~218°C. Pharm: Antineoplastic (mus P₃₈₈, 4mg/(kg·d), biotic prolonged rate = 109%; mus L₁₂₁₀, 4mg/(kg·d), biotic prolonged rate = 36%; showing unacceptable toxicity profile for clinical use); reverse transcriptase inhibitor (carcinogen RNA virus); antineoplastic (mus, L₁₂₁₀ leukemia, P₃₈₈ leukemia, Lewis lung carcinoma, and B16 melanoma)^[5369]; antineoplastic (increases life span of mouse inoculated with Ehrlich ascites tumor, causes decrease in mitotic index and size of tumor cells, and inhibits DNA and RNA synthesis in tumors)^[5369]; antineoplastic (chloride is used in clinical treatment of chronic myelocytic leukemia)^[5369]; cytotoxic (binds to calf thymus DNA by intercalation and to be toxic to topoisomerases I and II)^[5369]; topoisomerases inhibitor (exhibits strong stabilization of covalent binary complex formed between topoisomerase I and DNA)^[5369]. Source: CHU YE HUA JIAO *Zanthoxylum ailanthoides*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, CHU YE HUA JIAO GEN *Zanthoxylum ailanthoides*, CI KE HUA JIAO *Zanthoxylum echinocarpum*, DA YE CHOU HUA JIAO *Zanthoxylum myriacanthum*, DA YE HUA JIAO *Zanthoxylum dissitum*, DA YE HUA JIAO GEN *Zanthoxylum dissitum*, HUA JIAO *Zanthoxylum bungeanum*, HUA JIAO LE *Zanthoxylum cuspidatum*, HUANG XIN HUA JIAO *Zanthoxylum flavum*, MEI GUO CI JIAO *Zanthoxylum clava-hercules*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], RU DI JIN NIU *Zanthoxylum nitidum* (dried root: content = 0.15%^[5508]), YING BU BO *Zanthoxylum avicennae*. Ref: 4, 5, 6, 658, 660, 1521, 5369, 5501, 5508.

**15632 Nitidine chloride**

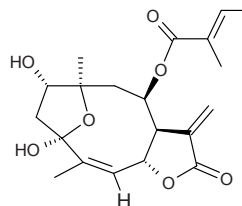
C₂₁H₁₈ClNO₄ (383.83). Yellow needles (MeOH or EtOH), mp 220°C, 238~240°C, 277~278°C (monohydrate), 284~286°C (dihydrate, dec). Source: HUA JIAO LE *Zanthoxylum cuspidatum*, RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 660, 1521.

**15633 Nivalenol**

Nivalenone [23282-20-4] C₁₅H₂₀O₇ (312.33). Pharm: Antibacterial; antifungal; causes bleeding; toxin (mammal). Source: *Fusarium nivale*. Ref: 658, 1521.

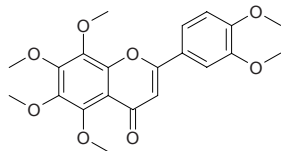
**15634 Niveusin C**

[75680-27-2] C₂₀H₂₆O₇ (378.43). Pharm: Antineoplastic; cytotoxic. Source: HUI BAI XIANG RI KUI *Helianthus canescens*, MA SHI XIANG RI KUI *Helianthus maximiliani*, XIANG RI KUI ZI *Helianthus annuus*, XUE BAI XIANG RI KUI *Helianthus niveus*. Ref: 658, 1521.

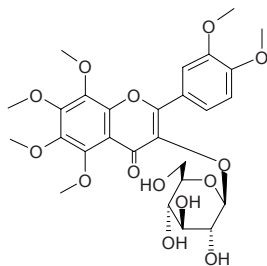


15635 Nobiletin

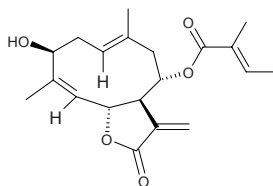
Nobiletin [10236-47-2] C₂₁H₂₂O₈ (402.40). Light yellow acicular crystals (CHCl₃), mp 127~129°C; mp 137~138°C. **Pharm:** Antineoplastic (mus, *in vivo*, Lewis lung cancer and W₂₅₆); cytotoxic (KB *in vitro*, ED₅₀ = 3~28 μg/mL); cytotoxic (HeLa, IC₅₀ = 30.4 μg/mL, control Mitomycin C, IC₅₀ = 1.7 μg/mL)^[4092]; cytotoxic (number of tumor cell lines, antiproliferative, induces differentiation of HL-60 cells *in vitro* in a concentration-dependent manner)^[5369]; cytotoxic (inhibits invasion of mus MO4 cells into embryonic chick heart fragments *in vitro*)^[5369]; antifungal (*Deuterophoma tracheiphila*); antithrombotic; platelet aggregation inhibitor (rat, orl, *in vivo*); anti-inflammatory (Ungar method, ED₂₅ = 20 mg/kg, intensity of anti-inflammation 50u/g); anti-inflammatory (modulator of cytokine network: modulator of cytokine network: effectively inhibits production of PGE₂ and proMMP-9 in rabbit synovial fibroblasts)^[4416]; anti-inflammatory (suppresses IL-1β-induced production of PGE₂ in hmn synovial fibroblasts, IC₅₀ < 4 μmol/L; decreases expression of IL-1α, IL-1β, TNF-α and IL-6 mRNAs in J774A.1 macrophages at 32 μmol/L; a suggested lead compound to develop novel anti-inflammatory or immunomodulatory drugs)^[4416]. **Source:** CHUAN JU *Citrus nobilis*, ZHI KE *Citrus aurantium*, JIAO GAN *Citrus tankan*, JU PI *Citrus reticulata*, JIN GAN *Fortunella japonica*, JIAO GAN PI *Citrus tankan*, JIN JU 桔 福寿螺 *Fortunella margarita*, LEI GONG TENG *Tripterygium wilfordii*, TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4, 5, 658, 660, 683, 4092, 4416, 5369, 5501.

**15636 Nobiletin-3-O-β-D-glucoside**

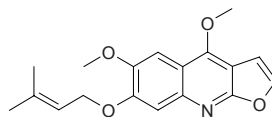
C₂₇H₃₂O₁₄ (580.55). **Source:** JU PI *Citrus reticulata* (dried ripe pericarp: content scope = 0.051%~0.51%, mean content = 0.24%)^[5508], TIAN CHENG *Citrus sinensis*^[2682]. **Ref:** 2682, 5508.

**15637 Nobilin**

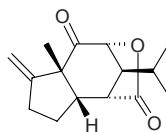
[31824-11-0] C₂₀H₂₆O₅ (346.43). **Pharm:** Antineoplastic; cytotoxic. **Source:** GAO GUI CHUN HUANG JU *Anthemis nobilis*. **Ref:** 658, 1521.

**15638 Nobiline**

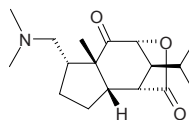
C₁₈H₁₉NO₄ (313.36). Brown plates, mp 125~126°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclaea nobilis* (aerial parts). **Ref:** 3503.

**15639 Nobilomethylene**

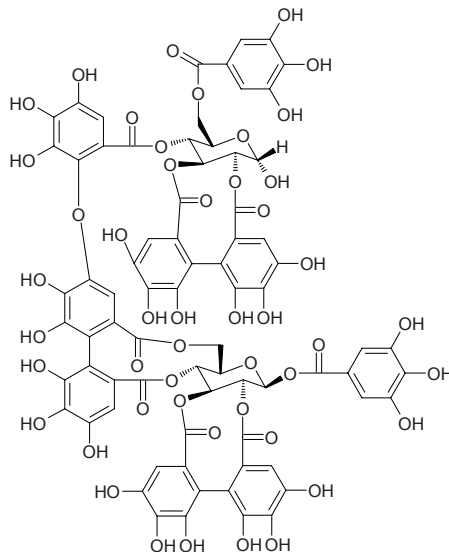
[38750-01-5] C₁₅H₂₀O₃ (248.32). Crystals (hexane), mp 159.5~160.5°C. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 2683.

**15640 Nobilonine**

[4684-24-6] C₁₇H₂₇NO₃ (293.41). mp 86°C. **Source:** SHI HU⁽⁴⁾ *Dendrobium nobile*. **Ref:** 6, 1521.

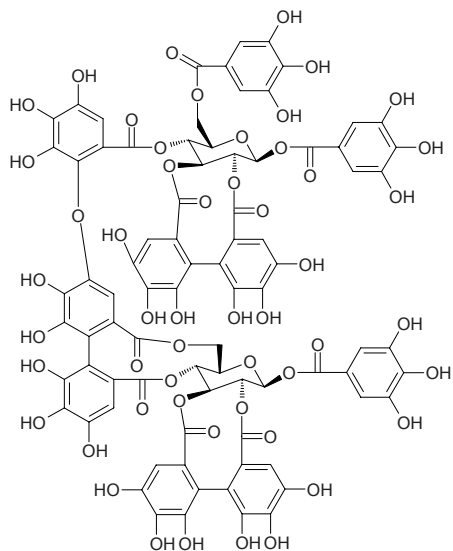
**15641 Nobotanin A**

[98725-99-6] C₇₅H₅₂O₄₈ (1721.22). White-like amorphous powder, [α]_D = +88° (c = 1.0, MeOH). **Pharm:** Antineoplastic (S₁₈₀, 10 mg/kg ip, biotic prolonged rate = 126.6%). **Source:** HONG MAO YE HAI TANG *Bredia tuberculata*, HONG WEI SUAN JIAO GAN *Medinilla magnifica*, *Tibouchina semidecandra*. **Ref:** 2684, 2685, 2686, 2687.

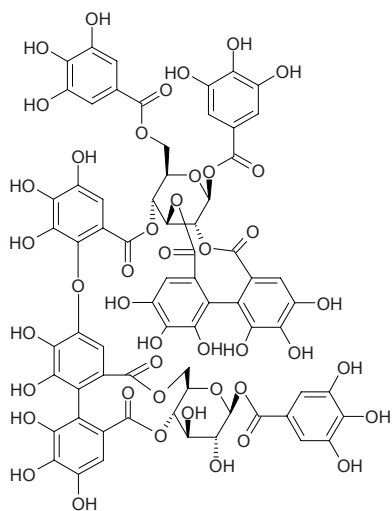


15642 Nobotanin F

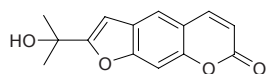
[104669-05-8] C₈₂H₅₆O₅₂ (1873.33). White-like amorphous powder, [α]_D = +60° (c = 0.5, MeOH). **Pharm:** Antineoplastic (S₁₈₀, 5mg/kg ip, biotic prolonged rate = 76.4%). **Source:** HONG MAO YE HAI TANG *Bredia tuberculata*, HONG WEI SUAN JIAO GAN *Medinilla magnifica*, *Heterocentron roseum*, *Tibouchina semidecandra*. **Ref:** 2684, 2685, 2686, 2687, 2688.

**15643 Nobotanin R**

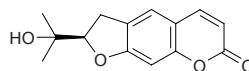
C₆₈H₅₀O₄₄ (1571.13). Off-white amorphous powder, [α]_D²⁷ = +86.5° (c = 1.0, MeOH). **Source:** *Monochaetum multiflorum* (leaf). **Ref:** 3758.

**15644 Nodachenetin**

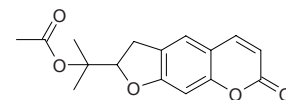
C₁₄H₁₂O₄ (244.25). **Source:** AO PA CAO *Oppopanax chironium* (root). **Ref:** 4071.

**15645 Nodakenetin**

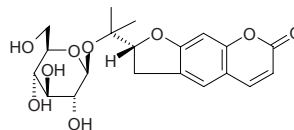
Prangeferol [495-32-9] C₁₄H₁₄O₄ (246.27). Colorless rhombic crystals (ethyl acetate-petroleum ether), mp 190–192°C, [α]_D²² = -22.3° (c = 0.634, chloroform). **Pharm:** Calcium antagonist; cytotoxic (P₃₈₈); platelet aggregation inhibitor (hmn, *in vitro*). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QIAN HUO *Angelica decursiva* [Syn. *Peucedanum decursivum*], QIANG HUO *Notopterygium incisum*, CHAO XIAN DANG GUI *Angelica gigas*, *Ptelea* sp. **Ref:** 297, 566, 658, 660, 900.

**15646 Nodakenetin acetate**

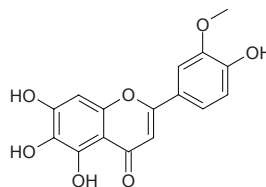
C₁₆H₁₆O₅ (288.30). mp 134–135°C. **Source:** YAN JIAO CAO *Boeninghausenia albiflora*. **Ref:** 2495.

**15647 Nodakenin**

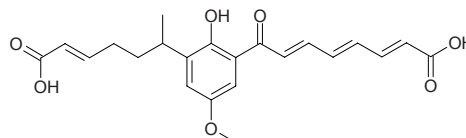
(+)-Marmesinin [495-31-8] C₂₀H₂₄O₉ (408.41). Lobulette form solid (ethanol), mp 217–219°C, [α]_D = +24° (c = 0.9, ethanol:water = 1:1). **Pharm:** Cytotoxic (L₁₂₁₀); platelet aggregation inhibitor (hmn, due to ADP, 1.0mmol/L, InRt = 70%); AChE inhibitor (*in vitro*, IC₅₀ = 68μmol/L)^[3058]. **Source:** BAI HUA QIAN HUO *Peucedanum praeruptorum*, BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], E SHEN *Anthriscus sylvestris*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QIAN HUO *Angelica decursiva* [Syn. *Peucedanum decursivum*] (in 1973, the compound was isolated from the plant)^[5505], QIANG HUO *Notopterygium incisum*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058]. **Ref:** 2, 566, 660, 900, 3058, 5501, 5505.

**15648 Nodifloretin**

[23494-48-6] C₁₆H₁₂O₇ (316.27). mp 250–253°C. **Source:** PENG LAI CAO *Lippia nodiflora*. **Ref:** 6, 1521.

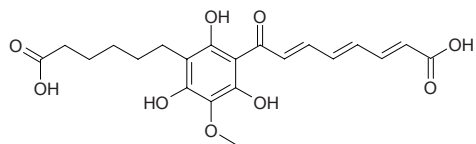
**15649 Nodifloridin A**

C₂₂H₂₄O₇ (400.43). **Source:** PENG LAI CAO *Lippia nodiflora*. **Ref:** 6.

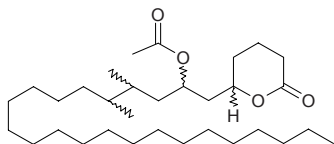


15650 Nodifloridin B

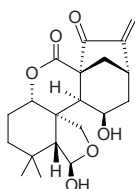
$C_{21}H_{24}O_9$ (420.42). Source: PENG LAI CAO *Lippia nodiflora*. Ref: 6.

**15651 Nodolidate**

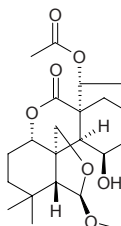
[37577-42-7] $C_{32}H_{60}O_4$ (508.83). Crystals (MeOH- $CHCl_3$), mp 69~70°C, $[\alpha]_D^{27} = -12.3^\circ$. Source: SHEN HUANG DOU *Cassia nodosa*. Ref: 6, 1521.

**15652 Nodosin**

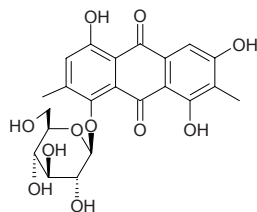
[10391-09-0] $C_{20}H_{26}O_6$ (362.43). Crystals, mp 275~280°C (dec), $[\alpha]_D^{17} = -203^\circ$, $[\alpha]_D^{20} = -225.3^\circ$ ($c = 0.38$, C_5H_5N). Pharm: Bitter principle; antibacterial (gram-positive bacteria); insect growth inhibitor; cytotoxic (K562 cells, MTT method, $IC_{50} = 1.43\mu g/mL$, control *cis*-Platin, $IC_{50} = 0.53\mu g/mL$)^[3808]. Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], HEI HUA YAN MING CAO *Isodon trichocarpus*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). Ref: 1521, 3808, 4067.

**15653 Nodosinin**

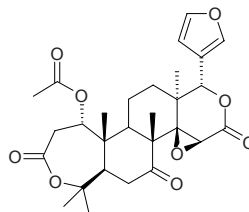
$C_{23}H_{32}O_7$ (420.51). mp 281~284°C, $[\alpha]_D^{26} = -211^\circ$ ($c = 0.11$, $CHCl_3$). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

**15654 Nodososide**

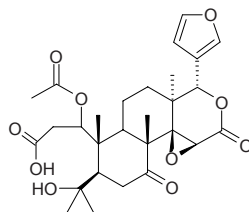
$C_{22}H_{22}O_{11}$ (462.41). Source: SHEN HUANG DOU *Cassia nodosa*. Ref: 6.

**15655 Nomilin**

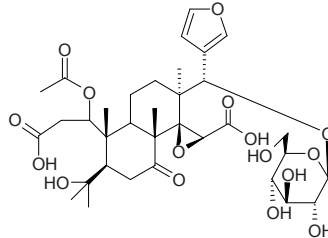
[1063-77-0] $C_{28}H_{34}O_9$ (514.58). mp 278~279°C. Pharm: Bitter principle; insect antifeedant; anti-HIV-1 (40 μ mol/L, InRt = (77 \pm 11)%, control Indinavir, 100nmol/L, InRt = 100%)^[5462]. Source: CHENG ZI *Citrus junos*, CHENG ZI HE *Citrus junos*, FU JU *Citrus tangemna*, JU HE *Citrus reticulata*, YIN DU LIAN *Azadiractica indica*, ZHU JU *Citrus erythroa*. Ref: 6, 658, 5462.

**15656 Nomilinic acid**

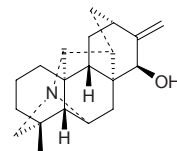
[35930-20-2] $C_{28}H_{36}O_{10}$ (532.59). Noncrystal. Source: CHENG ZI *Citrus junos*, ZHI SHI *Citrus aurantium*. Ref: 660, 1521.

**15657 Nomilinic acid glucoside**

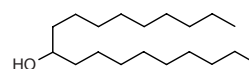
$C_{34}H_{48}O_{16}$ (712.75). Source: ZHI SHI *Citrus aurantium*. Ref: 2689.

**15658 Nominine**

[79808-87-0] $C_{12}H_{31}NO$ (123.49). Colorless wedge-shape crystals (Et_2O -MeOH), mp 258~260°C, $[\alpha]_D = +71.8^\circ$ ($c = 1.26$, methanol). Pharm: Antiarrhythmic (rat, induced by aconitine, $ED_{50} = 5mg/kg$); LD_{50} (rat) = 68.0mg/kg). Source: GAN WAN WU TOU *Aconitum finetianum*, SHAN YANG WU TOU *Aconitum sanyoense*, ZE WU TOU *Aconitum zeravschanicum*. Ref: 2690, 2691, 2692, 2693, 2694.

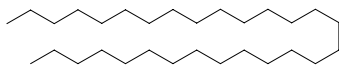
**15659 Nonacasyll alcohol-10**

Celidoniol [16840-84-9] $C_{19}H_{40}O$ (284.53). mp 82.5°C. Source: BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba*, BAI QU CAI *Chelidonium majus*, JU HUA HUANG LIAN *Corydalis pallida*. Ref: 2, 6.

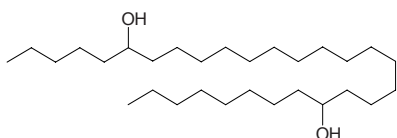


15660 Nonacosane

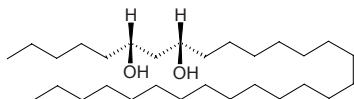
[630-03-5] $C_{29}H_{60}$ (408.80). Source: DU ZHONG *Eucommia ulmoides*, HONG HUA *Carthamus tinctorius*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XIAN HE CAO *Agrimonia pilosa* var. *japonica*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], ZHONG MA HUANG *Ephedra intermedia*. Ref: 2, 660.

**15661 Nonacosanediol-6,21**

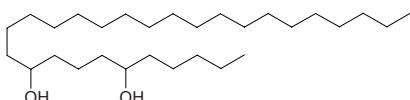
[96850-31-6] $C_{29}H_{60}O_2$ (440.80). Source: PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15662 Nonacosanediol-6,8**

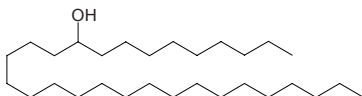
[96850-33-8] $C_{29}H_{60}O_2$ (440.80). Crystals (Me₂CO–MeOH), mp 72–74°C. Source: HONG HUA *Carthamus tinctorius*, PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15663 Nonacosanediol-6,10**

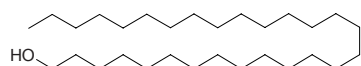
6,10-Nonacosanediol [71418-30-9] $C_{29}H_{60}O_2$ (440.80). Source: FU SHE SONG *Pinus radiata*, PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15664 10-Nonacosanol**

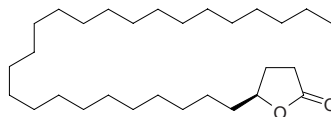
[2606-50-0] $C_{29}H_{60}O$ (424.80). Crystals (EtOH, Me₂CO or hexane), mp 83–84°C. Source: BAI GUO *Ginkgo biloba*, BAI QU CAI *Chelidonium majus*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], HE YE *Nelumbo nucifera*, SU TIE SHU GUO *Cycas revoluta*, TU CHUANG HUA *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], WU WEI CAO *Corydalis taliensis*, YA PIAN *Papaver somniferum*, YU JIN XIANG *Tulipa gesneriana*, ZI SHAN *Taxus cuspidata*, *Chamaecyparis* spp. Ref: 660, 1521.

**15665 Nonacosanol**

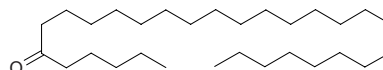
[25154-56-7] $C_{29}H_{60}O$ (424.80). Source: ZHONG MA HUANG *Ephedra intermedia*, HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**15666 Nonacosan-4-olide**

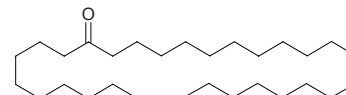
$C_{29}H_{56}O_2$ (436.77). Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

**15667 6-Nonacosanone**

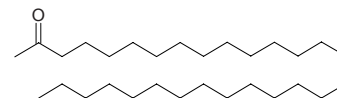
$C_{29}H_{58}O$ (422.79). Source: KU LANG SHU *Clerodendrum inerme*. Ref: 3382.

**15668 10-Nonacosanone**

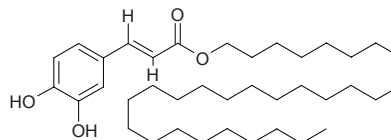
$C_{29}H_{58}O$ (422.79). mp 74–75°C. Source: BAI GUO YE *Ginkgo biloba*, JI MAO SONG *Podocarpus imbricatus*. Ref: 6, 544.

**15669 2-Nonacosanone**

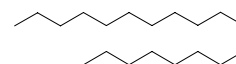
$C_{29}H_{58}O$ (422.79). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.

**15670 Nonacosanyl caffeate**

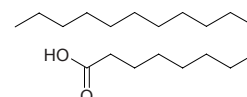
3,4-Dihydroxy-*trans*-cinnamic acid nonacosanylester $C_{38}H_{66}O_4$ (586.95). Pharm: Anti-inflammatory (COX-1 inhibitor, 1000 μmol/L, InRt = (52±2)%, positive control Indomethacin, 1.7 μmol/L, InRt = (43±3)%). Source: LUO YE SONG YE JIN SI TAO *Hypericum laricifolium* (aerial parts). Ref: 4413.

**15671 n-Nonadecane**

Nonadecane [629-92-5] $C_{19}H_{40}$ (268.53). Source: DANG SHEN *Codonopsis pilosula*, ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

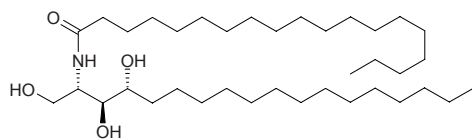
**15672 Nonadecanoic acid**

Nonadecylic acid [646-30-0] $C_{19}H_{38}O_2$ (298.51). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

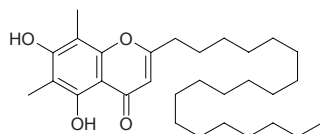


15673 (2S,3S,4R)-2-Nonadecanoylamino-octadecane-1,3,4-triol

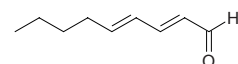
$C_{37}H_{75}NO_4$ (598.01). Colorless solid, mp 122~124°C, $[\alpha]_D^{28} = +19.2^\circ$ (c = 0.5, $CHCl_3$). Source: *Lobophytum* sp. Ref: 4432.

**15674 2-n-Nonadecyl-5,7-dihydroxy-6,8-dimethyl chromone**

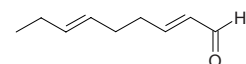
$C_{30}H_{48}O_4$ (472.71). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2695.

**15675 2,4-Nonadienal**

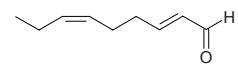
$C_9H_{14}O$ (138.21). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2696.

**15676 2,6-Nonadienal**

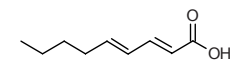
[17587-33-6] $C_9H_{14}O$ (138.21). bp 85~87°C/11 mmHg. Pharm: Main odiferous component in cucumber *Cucumis sativus* HUANG GUA. Source: HUANG GUA *Cucumis sativus*. Ref: 6, 658.

**15677 2E,6Z-Nonadienal**

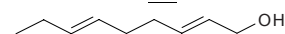
[557-48-2] $C_9H_{14}O$ (138.21). Liquid with cucumber odour, bp 94~98°C/11mmHg. Source: HUANG GUA *Cucumis sativus*. Ref: 660, 1521.

**15678 2,4-Nonadienic acid**

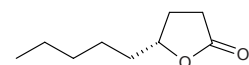
$C_9H_{14}O_2$ (154.21). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

**15679 2,6-Nonadienol**

$C_9H_{16}O$ (140.23). bp 95.5~100.0°C/11mmHg. Source: HUANG GUA *Cucumis sativus*. Ref: 6.

**15680 γ-Nonalactone**

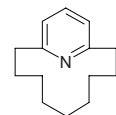
[104-61-0] $C_9H_{16}O_2$ (156.23). Pharm: Component of coconut flavorant. Source: YE ZI RANG *Cocos nucifera*. Ref: 658, 1521.

**15681 Nonaldehyde**

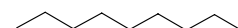
Nonylaldehyde [124-19-6] $C_9H_{18}O$ (142.24). bp 190~192°C. Source: CAO MEI *Fragaria ananassa*, CHENG GAN CAO *Eupatorium japonicum*, DA MA YE ZE LAN *Eupatorium cannabinum*, DONG LING CAO *Rabdosia rubescens*, GAN JIANG *Zingiber officinale*, HUA ZE LAN *Eupatorium chinense*. Ref: 2, 660.

**15682 2,6-Nonamethylene pyridine**

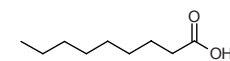
$C_{14}H_{21}N$ (203.33). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2.

**15683 n-Nonane**

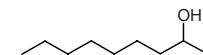
Nonane [111-84-2] C_9H_{20} (128.26). Source: SHENG JIANG *Zingiber officinale*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**15684 Nonanoic acid**

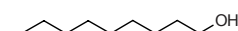
Pelargonic acid [112-05-0] $C_9H_{18}O_2$ (158.24). Source: CHAI HU *Bupleurum chinense*, DANG SHEN *Codonopsis pilosula*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUA LOU *Trichosanthes kirilowii*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XI YANG SHEN *Panax quinquefolium*. Ref: 2, 660.

**15685 2-Nonanol**

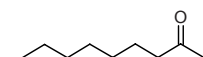
[628-99-9] $C_9H_{20}O$ (144.26). Source: GAN JIANG *Zingiber officinale*. Ref: 2.

**15686 n-Nonanol**

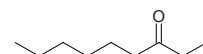
Nonyl alcohol [143-08-8] $C_9H_{20}O$ (144.26). bp 215°C. Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**15687 2-Nonanone**

Methylheptyl-ketone [821-55-6] $C_9H_{18}O$ (142.24). Source: SHENG JIANG *Zingiber officinale*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

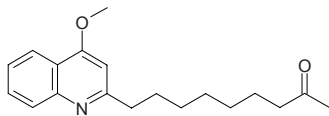
**15688 3-Nonanone**

[925-78-0] $C_9H_{18}O$ (142.24). Liquid, fp -8°C, bp 190°C, bp 86°C/20mmHg. Pharm: Alarm pheromone of insect. Source: BEI AI *Artemisia vulgaris*. Ref: 1521, 2697.

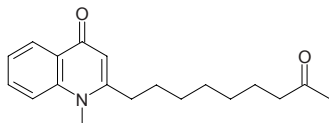


15689 2-(Nonan-8-one)-4-methoxy-quinoline

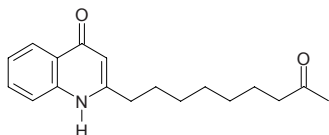
$C_{19}H_{25}NO_2$ (299.42). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15690 2-(Nonan-8-one)-N-methyl-4-quinolone**

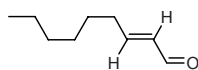
$C_{19}H_{25}NO_2$ (299.42). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15691 2-(Nonan-8-one)-(1H)-4-quinolone**

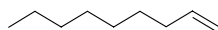
$C_{18}H_{23}NO_2$ (285.39). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15692 (E)-2-Nonenal**

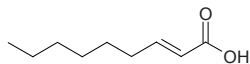
[18829-56-6] $C_9H_{16}O$ (140.23). Source: XING REN *Prunus armeniaca*. Ref: 2.

**15693 1-Nonene**

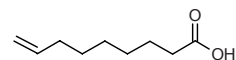
[124-11-8] C_9H_{18} (126.24). bp 146°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**15694 2-Nonenoic acid**

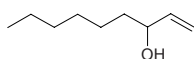
$C_9H_{16}O_2$ (156.23). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**15695 8-Nonenoic acid**

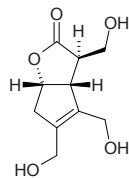
[31642-67-8] $C_9H_{16}O_2$ (156.23). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**15696 1-Nonen-3-ol**

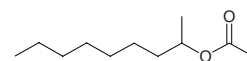
Hexylvinylcarbinol [21964-44-3] $C_9H_{18}O$ (142.24). bp 193~194°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**15697 Non-glycosidic iridoid**

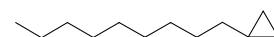
$C_{10}H_{14}O_5$ (214.22). Viscous syrup, $[\alpha]_D^{28} = -30.6^\circ$ ($c = 0.72$, MeOH). Source: XIE JI CU YE MU *Lasianthus wallichii* (leaf). Ref: 4238.

**15698 2-Nonyl acetate**

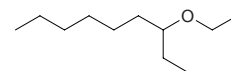
[14936-66-4] $C_{11}H_{22}O_2$ (186.30). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**15699 Nonyl cyclopropane**

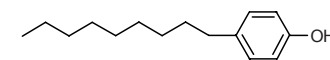
$C_{12}H_{24}$ (168.33). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**15700 Nonyl ethyl ether**

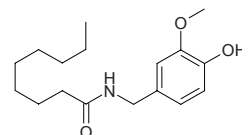
Ethyl nonyl ether [16979-32-1] $C_{11}H_{24}O$ (172.31). bp 88°C/21mmHg. Source: WEN PO *Cydonia oblonga*. Ref: 6.

**15701 Nonylphenol**

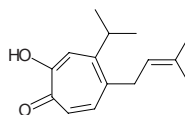
4-Nonylphenol [25154-52-3] $C_{15}H_{24}O$ (220.36). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**15702 Nonyl vanillylamide**

[2444-46-4] $C_{17}H_{27}NO_3$ (293.41). Source: LA JIAO *Capsicum frutescens*. Ref: 6.

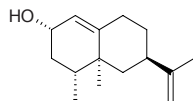
**15703 Nootkatin**

[4431-03-2] $C_{15}H_{20}O_2$ (232.33). mp 95°C. Source: SHAN CI BAI *Juniperus taiwaniana*. Ref: 6.

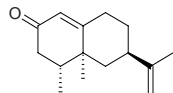


15704 Nootkatol

[50763-67-2] C₁₅H₂₄O (220.36). Colorless needles (hexane), mp 78–80°C, [α]_D = +208° (*c* = 1.1, CHCl₃). **Pharm:** Calcium antagonist (rbt, 30μmol antagonizes calcium ion absorption induced by KCl in artery, inhibits artery contraction; dog, 0.3μmol antagonizes calcium ion absorption induced by KCl in artery, inhibits evidently aorta contraction); vasodilator. **Source:** YI ZHI REN *Alpinia oxyphylla*. **Ref:** 657, 1207, 2698, 2699, 5501.

**15705 Nootkatone**

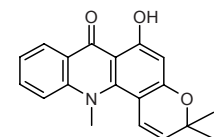
1(10),11-Eremophiladien-2-one; 4,4 α ,5,6,7,8-Hexahydro-4,4 α -dimethyl-6-(1-methylethenyl)-2(3*H*)-naphthalene [4674-50-4] C₁₅H₂₂O (218.34). Crystals (pet. ether), mp 36–37°C, [α]_D = +195.5° (*c* = 1.5, CHCl₃). **Pharm:** Na⁺,K⁺-ATP inhibitor (3μg/mL, reduces Na⁺,K⁺-ATPase activity 5%, 30μg/mL, reduces Na⁺,K⁺-ATPase activity 35%); prostaglandin synthetase inhibitor (0.5μmol/L, reduces prostaglandin synthetase activity 5%); vasodilator; antiulcerative (rat, induced by oral 1.5mL 0.15mol/L HCl 60% alcohol solution, before treatment 1h, 20mL/kg InRt = 69.8%; 50mL/kg InRt = 82.8%, *P* < 0.01); NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC₅₀ = 34μmol/L; control *L*-NMMA, IC₅₀ = 28μmol/L)^[4655]; β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100μmol/L, InRt = 25.8%; control Curcumin, InRt = 62.6%)^[4655]; 12(*S*)-LOX inhibitor inactive (hmn Platelets, 100μg/mL, 12(*S*)-HETE Production inhibitor inactive)^[4980]; flavorant; food additive. **Source:** CHAI HU *Bupleurum chinense*, CHAI SHOU *Bupleurum chaishouii*, CHUAN MU XIANG *Vladimiria souliei* [Syn. *Jurinea souliei*], CI GUI *Juniperus oxycedrus*, HONG CHAI HU *Bupleurum scorzonrifolium*, HUANG BIAN BAI *Chamaecyparis nootkatensis*, HUANG HUA HAO *Artemisia annua*, OU ZHOU CI BAI *Juniperus communis*, PU TAO YOU *Citrus paradisi*, SHI HU⁽⁴⁾ *Dendrobium nobile*, WU WEI ZI *Schisandra chinensis*, YE JU *Chrysanthemum indicum*, YI YE BAI JIANG *Patrinia heterophylla*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.17%dw)^[4655], ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. **Ref:** 2, 660, 1207, 1521, 2698, 2700, 2702, 4655, 4980, 5501.

**15706 Nopinone**

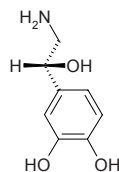
C₉H₁₄O (138.21). **Source:** RU XIANG *Boswellia carterii*. **Ref:** 660.

**15707 Noracronycine**

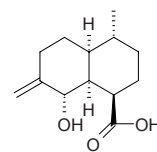
[13161-79-0] C₁₉H₁₇NO₃ (307.35). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 11.

**15708 Noradrenaline**

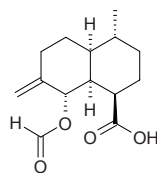
(*R*)-4-(2-Amino-1-hydroxyethyl)-1,2-benzenediol [51-41-2] C₈H₁₁NO₃ (169.18). mp (+) 215–217°C (dec), (–) 216.5–218.0°C, (±) 191°C (dec). **Pharm:** A hormone secreted by medulla of adrenal gland; neurotransmitter (released by sympathetic nerve endings); contracts blood vessels; increases blood pressure and blood flow through the coronary arteries; slows heart rate; increases the rate and depth of breathing; intestinal smooth muscle relaxant. **Source:** DA GUO XI FAN LIAN *Passiflora quadrangularis*, HAN XIU CAO *Mimosa pudica*, HE HUAN PI *Albizia julibrissin*, HONG HUA CAI DOU *Phaseolus multiflorus*, JIN YU *Carassius auratus*, MA CHI XIAN *Portulaca oleracea*, NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, WAN DOU *Pisum sativum*, WEI NAO *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, WEI XIN GAN *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, XIANG JIAO *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], YU SHU *Samanea saman*. **Ref:** 6, 658.

**15709 Norannuic acid**

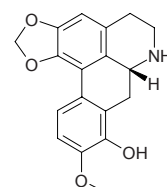
C₁₃H₂₀O₃ (224.30). Crystals, mp 180–182°C, [α]_D = –104° (*c* = 1, MeOH). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2704.

**15710 Norannuic acid formyl ester**

C₁₄H₂₀O₄ (252.31). Colorless oil. [α]_D = –14.1° (*c* = 0.3, CHCl₃). **Source:** HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 3435.

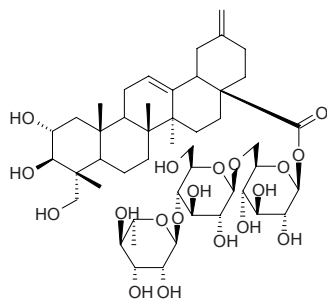
**15711 Norannuradhapurine**

[83694-79-5] C₁₈H₁₇NO₄ (311.34). Amorphous. **Source:** BAI YE GUA FU MU *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], GUA FU MU *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], *Polyalthia acuminata*. **Ref:** 2705, 2706.



15712 Norarjunolic acid-28-O- α -L-rhamnosyl(1 \rightarrow 4)- β -D-glucosyl (1 \rightarrow 6)- β -D-glucopyranoside

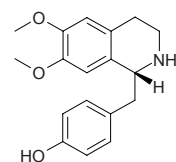
C₄₇H₇₄O₁₉ (943.10). Source: YU ZHI ZI *Akebia quinata*. Ref: 2707.



15713 N-Norarmepavine

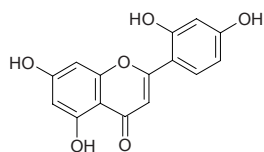
Norarmepavine C₁₈H₂₁NO₃ (299.37). mp D(+) 157~158°C, L(-) 157~158°C.

Source: HE YE *Nelumbo nucifera*, HONG NAN PI *Machilus thunbergii*, LIAN ZI *Nelumbo nucifera*. Ref: 6, 660.



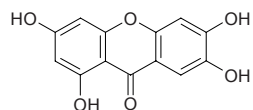
15714 Norartocarpetin

C₁₅H₁₀O₆ (286.24). Pale-yellow needles (Me₂CO, EtOH or AcOH), mp 332~335°C. Pharm: Cytotoxic (cyclooxygenase-1 inhibitor, IC₅₀ = 4.0 μg/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, 85% at 10 μg/mL)^[5038]. Source: BO LUO MI *Artocarpus heterophyllus*, DA DA HE MIAN BAO GUO *Artocarpus dadah*. Ref: 1521, 5038.



15715 Norathyriol

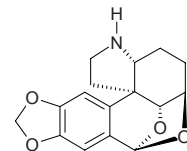
1,3,6,7-Tetrahydroxyxanthone [3542-72-1] C₁₃H₈O₆ (260.21). Pharm: Antibacterial (*Mycobacterium tuberculosis*); xanthinoxidase inhibitor. Source: AO SHI JIN SI TAO *Hypericum aucheri*, DAO NIAN ZI *Garcinia mangostana*, KU DING CHA *Cratoxylum prunifolium*, SANG CHENG *Maclura pomifera*, SHAN ZHU ZI *Garcinia multiflora*, TU SAN JIN SI TAO *Hypericum androsaemum*, *Chlorophora* sp., *Mammea* sp. Ref: 6, 658.



15716 Noraugustamine

C₁₆H₁₇NO₄ (287.32). mp 149~151°C, [α]_D²⁰ = -50.0° (c = 0.87, MeOH).

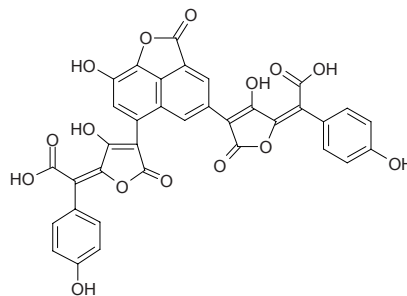
Pharm: Antitrypanosomal (*Trypanosoma brucei*, IC₅₀ = 18.7 μg/mL); antiprotozoal inactive (*Plasmodium falciparum*, *Leishmania donovani*, *Trypanosoma cruzi*). Source: KEN NI YA WEN SHU LAN *Crinum kirkii* (bulb). Ref: 3892.



15717 Norbadione A

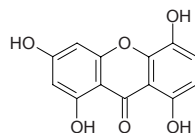
C₃₅H₁₈O₁₅ (678.52). Red needles, mp > 300°C. Source: DOU BAO JUN

Pisolithus tinctorius [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*], HE RONG GAI NIU GAN JUN *Xerocomus badius*. Ref: 2708, 2709.



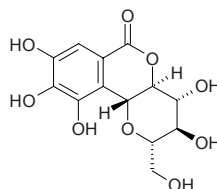
15718 Norbellidifodin

1,3,5,8-Tetrahydroxyxanthone C₁₃H₈O₆ (260.21). Yellow powder, mp 276~278°C. Pharm: AChE inhibitor (MIC = 0.04 μg = 0.15 nmol, control Galanthamine MIC = 0.01 μg = 0.03 nmol, Physostigmine MIC = 0.005 μg = 0.002 nmol, Huperzine A MIC = 0.002 μg = 0.0008 nmol)^[5039]. Source: BAO E ZHANG YA CAI *Swertia calycina*, TIAN YE LONG DAN *Gentiana campestris* (leaf). Ref: 634, 5039.



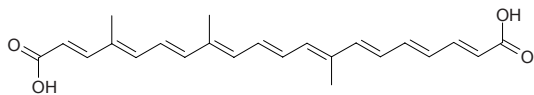
15719 Norbergenin

[79595-97-4] C₁₃H₁₄O₉ (314.25). Prisms or needles (H₂O, dimorphism), mp 277~278°C (275~277°C, dec), (Prisms), mp 178~180°C (needles), [α]_D¹⁷ = -22.0° (c = 0.393, H₂O). Pharm: DPPH scavenger (IC₅₀ = (13.4±1.1) μmol/L, control Trolox, IC₅₀ = (25.4±0.8) μmol/L)^[4244]; cytotoxic inactive (murine breast cancer cell line FM3A, 100 μmol/L)^[4244]. Source: HU ER CAO *Saxifraga stolonifera*, XIA ZI HUA *Woodfordia fruticosa*, YOU SE ZI JIN NIU *Ardisia colorata* (fruit), ZHU SHA GEN *Ardisia crenata*. Ref: 2710, 2711, 2712, 4244.

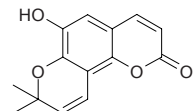


15720 Norbixin

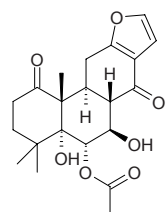
$C_{24}H_{28}O_4$ (380.49). Source: HONG MU *Bixa orellana*. Ref: 658, 1521.

**15721 Norbraylin**

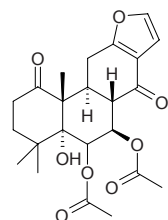
$C_{14}H_{12}O_4$ (244.25). Source: *Cedrelopsis grevei* (trunk bark). Ref: 5368.

**15722 Norcaesalpinin F**

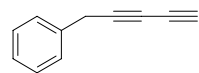
$C_{21}H_{26}O_7$ (390.44). Colorless amorphous solid, $[\alpha]_D^{22} = +80.4^\circ$ ($c = 0.091$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial *Plasmodium falciparum* FCR-3/A2 clone, $IC_{50} = 0.14 \mu\text{mol/L}$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel: yield = 0.0004%dw). Ref: 1126.

**15723 Norcaesalpinin MD**

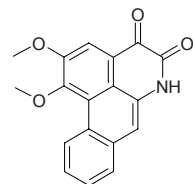
$C_{23}H_{28}O_8$ (432.47). Colorless amorphous solid, $[\alpha]_D^{25} = +163.3^\circ$ ($c = 0.1$, $CHCl_3$). Source: CI GUO SU MU *Caesalpinia crista* (seed kernel). Ref: 4434.

**15724 Norcapillene**

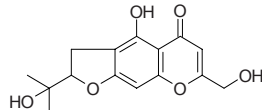
1,3-Pentadiynylbenzene $C_{11}H_8$ (140.19). Oil, bp 45–50°C/0.001mmHg, $n_D^{22} = 1.5726$. Source: NAN TONG HAO *Chrysanthemum segetum*, XIA YE QING HAO *Artemisia dracunculus*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 1521.

**15725 Norcepharadione B**

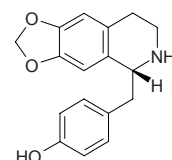
[57576-41-7] $C_{18}H_{13}NO_4$ (307.31). mp 304–307°C (dec). Source: YU XING CAO *Houttuynia cordata*, BAI YAO ZI *Stephania cepharantha*, ZHU YE JU *Piper boehmeriaefolium*. Ref: 1521, 2428, 2713.

**15726 Norcimifugin**

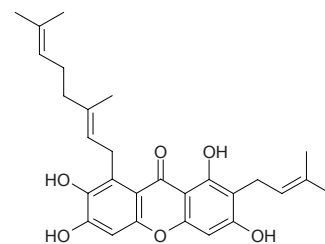
[64519-22-8] $C_{15}H_{16}O_6$ (292.29). Source: NAN CHUAN SHENG MA *Cimicifuga nanchuanensis*. Ref: 2714.

**15727 Norcinnamolaureine**

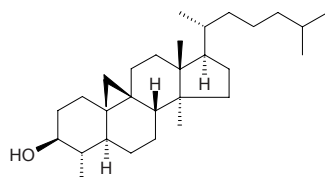
[34168-00-8] $C_{17}H_{17}NO_3$ (283.33). Source: SHAN HU JIAO YE *Lindera glauca*. Ref: 2715.

**15728 Norcowanin**

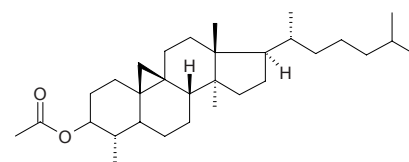
[158511-56-9] $C_{28}H_{32}O_6$ (464.56). Yellow needles (acetone– CH_2Cl_2) mp 162–163°C. Pharm: Antibacterial (*Staphylococcus aureus*). Source: YUN NAN SHAN ZHU ZI *Garcinia cowa*. Ref: 2716.

**15729 29-Norcycloartan-3β-ol**

$C_{29}H_{50}O$ (414.72). mp 128–132°C. Source: DONG BEI DUO ZU JUE *Polypodium virginianum*, DUO ZU JUE *Polypodium vulgare*, GOU QI ZI *Lycium chinense*, SHUI LONG GU *Polypodium niponicum*, SUI BA QIA *Smilax aspera*. Ref: 6, 660.

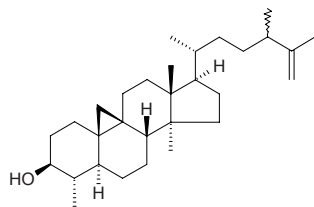
**15730 31-Norcycloartanyl acetate**

29-Norcycloartanyl acetate [17320-16-0] $C_{31}H_{52}O_2$ (454.76). Source: DONG BEI DUO ZU JUE *Polypodium virginianum*, DUO ZU JUE *Polypodium vulgare*, SHUI LONG GU *Polypodium niponicum*. Ref: 660.

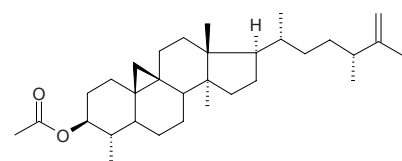


15731 31-Norcyclolaudenol

$C_{30}H_{50}O$ (426.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 6, 1521.

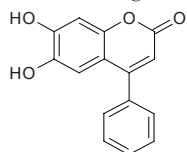
**15732 31-Norcyclolaudenyl acetate**

$C_{32}H_{52}O_2$ (468.77). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 660.

**15733 Nordalbergin**

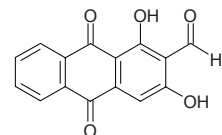
[482-82-6] $C_{15}H_{10}O_4$ (254.24). mp 274~276°C. Source: JIANG ZHEN

XIANG *Dalbergia odorifera*. Ref: 6.

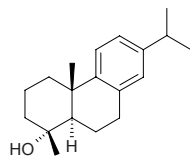
**15734 Nordamnacanthal**

[3736-59-2] $C_{15}H_8O_5$ (268.23). Orange-yellow crystals (Me_2CO), mp 220°C.

Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem), GUANG ZE BA JI *Morinda lucida*, HAI BA JI *Morinda citrifolia*, HU CI *Damnacanthus indicus*, QIAN CAO GEN *Rubia cordifolia*, RAN SE JI YAN TENG *Morinda tinctoria*, TU LIAN QIAO *Hymenodictyon excelsum*, *Damnacanthus major*, *Rubia ibérica*, *Coprosma linearifolia*. Ref: 6, 1521, 2717, 4369.

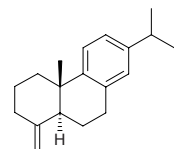
**15735 18-Nordehydroabietan-4 α -ol**

$C_{19}H_{28}O$ (272.43). Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

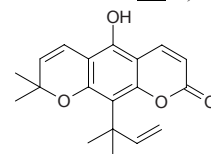
**15736 19-Nordehydroabiet-4(18)-ene**

18-Nor-4(19),8,11,13-abietatetraene $C_{19}H_{26}$ (254.42). Source: HAI SONG ZI

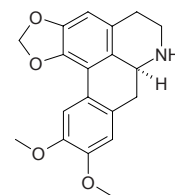
Pinus koraiensis. Ref: 6.

**15737 Nordentatin**

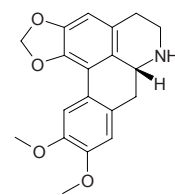
[17820-07-4] $C_{19}H_{20}O_4$ (312.37). mp 182°C. Pharm: Antibacterial (*Mycobacterium tuberculosis*, MIC = 100 $\mu g/mL$, control Isoniazide, MIC = 0.040~0.090 $\mu g/mL$, kanamycin sulfate, MIC = 2.0~5.0 $\mu g/mL$)^[5367]; antifungal inactive (*Candida albicans*, control Amphotericin, IC_{50} = 0.01 $\mu g/mL$)^[5367]; antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500(mol ratio/32pmol TPA)), EBV-EA-positive cells = (47.3 \pm 1.9)% (viability >80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability = 60%), Curcumin, EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%); IC_{50} = 473(mol ratio/32pmol TPA), β -Carotene, IC_{50} = 400(mol ratio/32pmol TPA), Curcumin IC_{50} = 341(mol ratio/32 pmol TPA))^[5048]. Source: SHAN HUANG PI *Clausena excavata*, YE HUANG PI *Clausena dentata*, *Citrus medica* var. *etrog*, *Citrus jambhiri*, CHENG ZI *Citrus junos*, *Citrus tamurana*, *Citrus hassaku*. Ref: 6, 1521, 5048, 5367.

**15738 (+)-Nordicentrine**

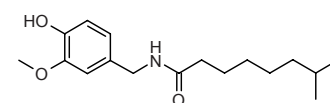
[25394-59-6] $C_{19}H_{19}NO_4$ (325.37). mp 254~255°C (dec), $[\alpha]_D^{31}$ = +31° (c = 0.65, MeOH). Source: HEI KE NAN *Lindera megaphylla*, *Litsea salicifolia*. Ref: 1521, 2718.

**15739 (-)-Nordicentrine**

[151601-88-6] $C_{19}H_{19}NO_4$ (325.37). mp 248°C (dec), $[\alpha]_D^{20}$ = -34° (c = 0.2, MeOH). Pharm: Cytotoxic (BCA-1 ED_{50} = 2.0 $\mu g/mL$; HT1080 ED_{50} = 1.7 $\mu g/mL$; LUC-1 ED_{50} = 13.2 $\mu g/mL$; MEL-2 ED_{50} = 3.3 $\mu g/mL$; COL-1 ED_{50} = 1.7 $\mu g/mL$; KB ED_{50} = 0.8 $\mu g/mL$; KB-V1 ED_{50} = 0.7 $\mu g/mL$; P₃₈₈ ED_{50} = 0.6 $\mu g/mL$; A-431 ED_{50} = 0.8 $\mu g/mL$; LNCaP ED_{50} = 1.5 $\mu g/mL$; ZR-75-1 ED_{50} = 1.7 $\mu g/mL$; U373 ED_{50} = 0.6 $\mu g/mL$); antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, ED_{50} = 470 ng/mL; chloroquine-endured strain W2, ED_{50} = 1030 ng/mL). Source: ZHI LI QIAN JIN TENG *Stephania erecta*. Ref: 2719.

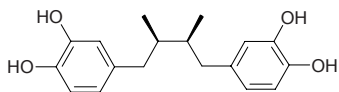
**15740 Nordihydrocapsaicin**

Nordihydrocapsaicin $C_{17}H_{27}NO_3$ (293.41). Source: HONG HAI JIAO *Capsicum annuum*, LA JIAO *Capsicum frutescens*. Ref: 15, 2786.

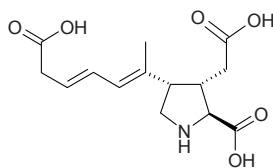


15741 Nordihydroguaiaretic acid

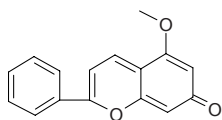
NDGA $C_{18}H_{22}O_4$ (302.37). **Pharm:** Antineoplastic; antifungal; antimicrobial. **Source:** WU WEI ZI *Schisandra chinensis*, YU CHUANG MU *Guajacum officinale*, *Larrea* sp. **Ref:** 658, 1733.

**15742 Nordomoic acid**

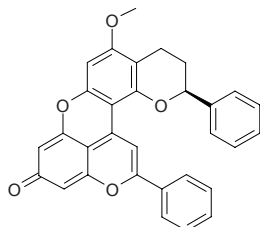
$C_{14}H_{19}NO_6$ (297.31). **Source:** RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. **Ref:** 2720.

**15743 Nordracorhodin**

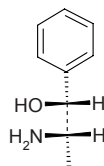
[35290-21-2] $C_{16}H_{12}O_3$ (252.27). Red, mp 120~125°C. **Source:** QI LIN JIE *Daemonorops draco*. **Ref:** 2721.

**15744 Nordracorubin**

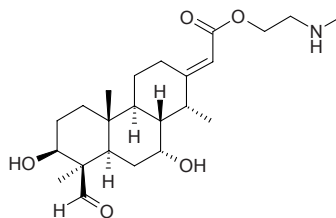
[35290-22-3] $C_{31}H_{22}O_5$ (474.52). Red solid, mp 255~260°C, $[\alpha]_D^{20} = -77.5^\circ$ ($c = 0.024$, MeOH). **Source:** QI LIN JIE *Daemonorops draco*. **Ref:** 2721.

**15745 Norephedrine**

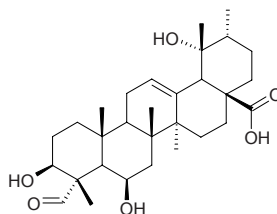
[492-41-1] $C_9H_{13}NO$ (151.21). mp (-) 50°C. **Source:** BAN ZI MA HUANG *Ephedra lepidosperma* (herbaceous twigs: content = 0.006%)^[5508], DAN ZI MA HUANG *Ephedra monosperma* (herbaceous twigs: content = 0.152%)^[5508], LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 3 origins = 0.058%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: mean content of 5 origins = 0.047%)^[5508], MO GUO MA HUANG *Ephedra przewalskii* (herbaceous twigs: mean content of 2 origins = 0.007%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: mean content of 2 origins = 0.108%)^[5508], SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.085%)^[5508], SHU ZHUANG MA HUANG *Ephedra procera* (herbaceous twigs: content = 0.0004%)^[5508], SHUANG SUI MA HUANG *Ephedra distachya* (herbaceous twigs: content = 0.0022%)^[5508], XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = 0.037%)^[5508], XI ZI MA HUANG *Ephedra regeliana* (herbaceous twigs: content = 0.0012%)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content of 2 origins = 0.050%)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = 0.059%)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: mean content of 3 origins = 0.051%)^[5508], *Ephedra tweediana* (herbaceous twigs: content = 0.0005%)^[5508]. **Ref:** 2, 660, 1521, 5508.

**15746 Norerythrochaldine**

[55729-25-4] $C_{23}H_{37}O_5$ (407.56). **Pharm:** Cytotoxic (KB). **Source:** LU SUI GE MU *Erythrophleum chlorostachyum*. **Ref:** 658, 1521.

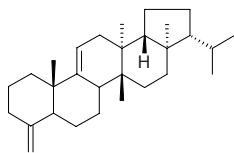
**15747 23-Nor-24-esomethylene-3,6,19-thihydroxyurs-12-en-28 oic acid**

$C_{30}H_{46}O_6$ (502.70). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

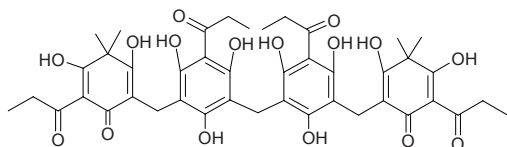


15748 24-Nor-4(23),9(11)-fernadiene

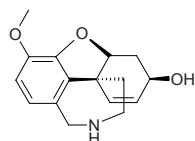
[70588-09-9] C₂₉H₄₆ (394.69). Source: DA YE GU SUI BU *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*]. Ref: 2722.

**15749 Norflavaspidic acid**

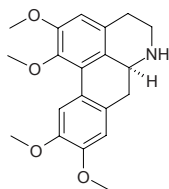
C₄₃H₄₈O₁₆ (820.85). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*. Ref: 1522.

**15750 Norgalanthamine**

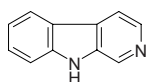
[41303-74-6] C₁₆H₁₉NO₃ (273.33). White needles (acetone), mp 152.5~153°C, colorless prisms (CHCl₃-MeOH), mp 171~173°C, [α]_D²² = -74.0° (c = 0.277, CHCl₃), [α]_D²⁸ = -45.3° (c = 0.24, MeOH). Pharm: Cytotoxic (hmn lymphoma cell Molt4 ED₅₀ = 0.6μg/mL, mouse alveolus non-cancer fibrocyte LMTK ED₅₀ = 0.5μg/mL). Source: DA XUE HUA LIAN *Galanthus elwelii*, FU ZHUANG SHUI GUI JIAO *Hymenocallis rotata*, GUANG XI SHI SUAN *Lycoris Guangxiensis*, JIA SHUI XIAN *Narcissus pseudonarcissus* ssp. *pseudonarcissus*, RI BEN WEN SHU LAN *Crinum asiaticum* var. *japonicum*, SAI LA LIANG SHUI XIAN *Narcissus leonensis*, XUE SHENG SHUI XIAN *Narcissus nivalis*. Ref: 1207.

**15751 Norglaucine**

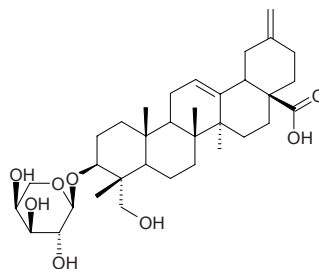
[21848-62-4] C₂₀H₂₃NO₄ (341.41). Source: *Alphonsea* spp., *Pseuduvaria* spp., *Magnolia* spp., *Liriodendron* spp., *Colubrina* spp., *Monimia* spp., *Duguetia* spp., *Chasmanthera* spp. Ref: 1521.

**15752 Norharman**

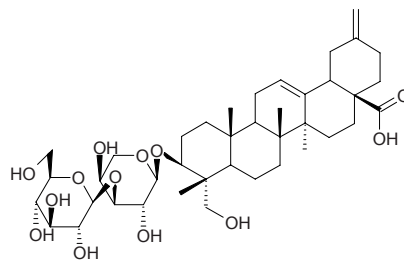
9*H*-Pyrido[3,4-*b*]indole [244-63-3] C₁₁H₈N₂ (168.20). mp 197°C. Source: YUAN ZHI *Polygala tenuifolia*. Ref: 538.

**15753 30-Norhederagenin-3-O-α-L-arabinopyranoside**

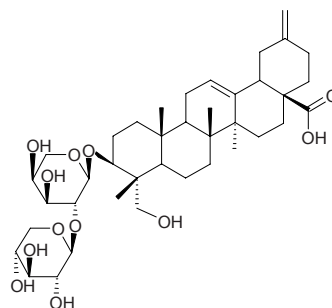
C₃₄H₅₂O₈ (588.79). Source: MU TONG *Akebia quinata*. Ref: 2723.

**15754 30-Norhederagenin-3-O-β-D-glucosyl(1→3)-α-L-arabinopyranoside**

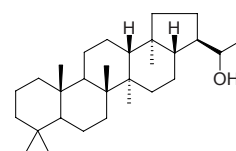
C₄₀H₆₂O₁₃ (750.93). Source: MU TONG *Akebia quinata*. Ref: 2723.

**15755 30-Norhederagenin-3-O-β-D-xylosyl(1→2)-α-L-arabinopyranoside**

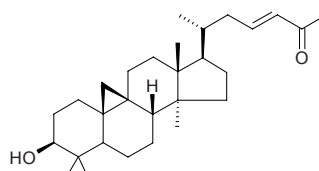
C₃₉H₆₀O₁₂ (720.91). Source: MU TONG *Akebia quinata*. Ref: 2723.

**15756 29-Nor-22-hopanol**

C₂₉H₅₀O (414.72). Source: BIAN YE TIE XIAN JUE *Adiantum caudatum*. Ref: 2724.

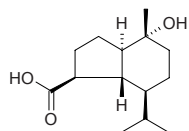
**15757 (23*E*)-27-Nor-3β-hydroxycycloart-23-en-25-one**

C₂₉H₄₆O₂ (426.69). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.

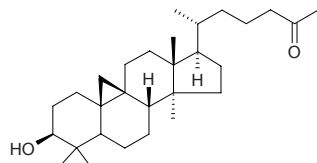


15758 15-Nor-10-hydroxy-oplopan-4-oic acid

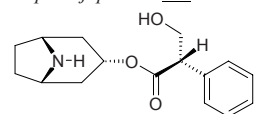
$C_{14}H_{24}O_3$ (240.35). Colorless oil. Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**15759 27-nor-3β-Hydroxy-25-oxocycloartane**

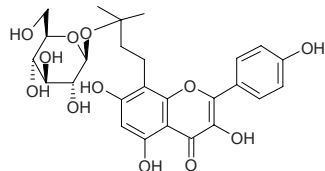
$C_{29}H_{48}O_2$ (428.70). mp 127~129°C, $[\alpha]_D^{25} = +38.0^\circ$ ($c = 0.3$, $CHCl_3$). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.

**15760 Norhyoscyamine**

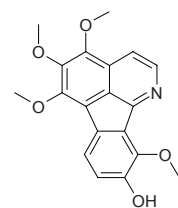
$C_{16}H_{21}NO_3$ (275.35). mp (–) 140.5°C. Source: DONG LANG DANG *Scopolia japonica*. Ref: 6.

**15761 Noricariside**

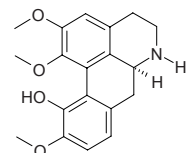
[20194-37-0] $C_{26}H_{30}O_{12}$ (534.52). mp 271~273°C. Source: HUANG BAI *Phellodendron amurense*, *Phellodendron* spp. Ref: 2725.

**15762 Norimelutin**

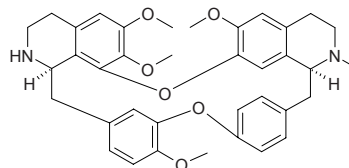
[152606-56-9] $C_{19}H_{17}NO_5$ (339.35). Yellow powder Pharm: Cytotoxic (P_{388} *in vitro*). Source: XI SHENG TENG *Cissampelos pareira*. Ref: 2726.

**15763 Norisocorydine**

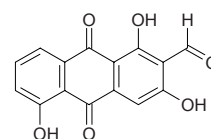
(+)-Norisocorydine $C_{19}H_{21}NO_4$ (327.38). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], YOU GOU YING ZHAO *Artabotrys uncinatus* (root and stem)^[3083]. Ref: 6, 3083.

**15764 (+)-2-Norisotetrandrine**

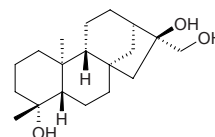
[123930-96-1] $C_{37}H_{40}N_2O_6$ (608.74). $[\alpha]_D = +100^\circ$ ($c = 0.16$, $CHCl_3$). Pharm: Cytotoxic (many cell strains); antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, $ED_{50} = 66.1$ ng/mL, chloroquine-endured strain W2, $ED_{50} = 45.3$ ng/mL). Source: ZHI LI QIAN JIN TENG *Stephania erecta*. Ref: 2727, 2728.

**15765 Norjuzunal**

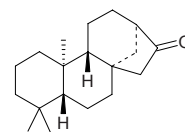
$C_{15}H_8O_6$ (284.23). mp 265°C. Source: HU CI *Damnacanthus indicus*. Ref: 6.

**15766 19-Nor-ent-kaurane-4α,16β,17-triol**

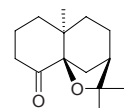
$C_{19}H_{32}O_3$ (308.47). Pharm: Antioxidant (inhibits superoxide anion generation, fMLP/CB, $IC_{50} = (3.43 \pm 0.31) \mu\text{g/mL}$, $p < 0.001$, control DPI, $IC_{50} = (0.13 \pm 0.06) \mu\text{g/mL}$, $p < 0.001$). Source: FAN LI ZHI *Annona squamosa* (stem). Ref: 4950.

**15767 ent-17-Norkauran-16-one**

[1224-42-6] $C_{19}H_{30}O$ (274.45). mp 117~118°C, $[\alpha]_D^{20.3} = -29.0^\circ$ ($c = 1.8$, $CHCl_3$). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [*Fritillaria thunbergii*]. Ref: 2182.

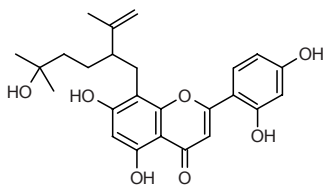
**15768 Norketoagarofuran**

$C_{14}H_{22}O_2$ (222.33). mp 56~57°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13, 2788.

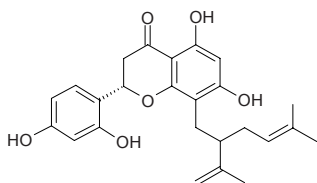


15769 Norkurarinol

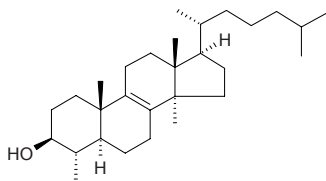
$C_{25}H_{28}O_7$ (440.50). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 2.1\mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3\mu\text{mol/L}$)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 5409.

**15770 Norkurarinone**

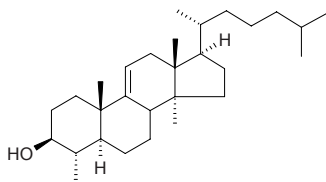
[34981-24-3] $C_{25}H_{28}O_6$ (424.50). Crystals (C_6H_6), mp 133°C, $R_i[17, D] = +8^\circ$ (EtOH). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 1521, 2729.

**15771 29-Norlanost-8-enol**

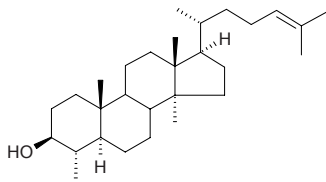
$C_{29}H_{50}O$ (414.72). **Source:** MAN TUO LUO ZI *Datura metel*, GOU QI ZI *Lycium chinense*. **Ref:** 2730.

**15772 29-Norlanost-9(11)-enol**

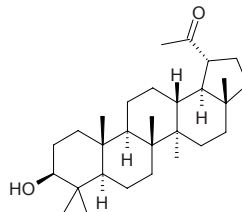
$C_{29}H_{50}O$ (414.72). **Source:** MAN TUO LUO ZI *Datura metel*, GOU QI ZI *Lycium chinense*, WAN TAO HUA ZI *Datura stramonium*. **Ref:** 2730.

**15773 29-Norlanosterol**

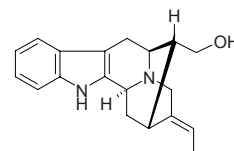
$C_{29}H_{50}O$ (414.72). **Source:** WAN TAO HUA ZI *Datura stramonium*. **Ref:** 2730.

**15774 30-Nor-lupan-3β-ol-20-one**

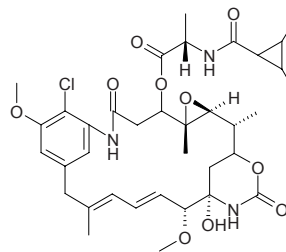
$C_{29}H_{48}O_2$ (428.70). mp 238~239°C, 237~239°C, $[\alpha]_D^{25} = -10.2^\circ$. **Source:** XIE WEI JU *Koelpinia linearis* (aerial parts). **Ref:** 3912.

**15775 Normacusine B**

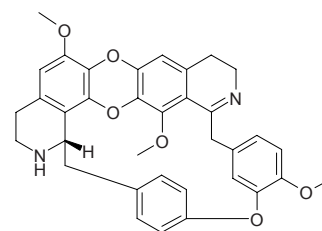
[604-99-9] $C_{19}H_{22}N_2O$ (294.40). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 1521.

**15776 Normaytancyprine**

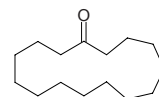
[84123-43-3] $C_{36}H_{48}ClN_3O_{10}$ (718.25). Dark-green-brown microcrystals ($CHCl_3$ -hexane), mp 143~145°C. **Pharm:** Antineoplastic (mus, *in vivo*, P_{88} , 0.4~12.5 $\mu\text{g/kg}$, T/C = 145%~300%); cytotoxic (KB *in vitro*, $ED_{50} = 10^{-6}$ ~ $10^{-5}\mu\text{g/mL}$). **Source:** DUO ZHI PU TE MU *Putterlickia verrucosa*. **Ref:** 2731.

**15777 Normenisarine**

$C_{35}H_{32}N_2O_6$ (576.66). mp 223°C. **Source:** MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. **Ref:** 6.

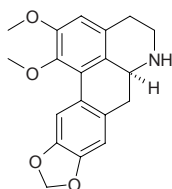
**15778 Normuscone**

[502-72-7] $C_{15}H_{28}O$ (224.39). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2, 1521.

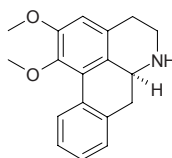


15779 N-Nornantenine

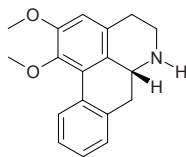
(S)-Nornantenine [15401-66-8] C₁₉H₁₉NO₄ (325.37). [α]_D²² = +85c° (c = 0.75, EtOH). **Pharm:** Antileishmanial (*Leishmania panamensis*, IC₅₀ = (15±0.45)μmol/L, control Amphotericin B, IC₅₀ = (0.1±0.01)μmol/L; *Leishmania mexicana*, IC₅₀ = (24±0.03)μmol/L, Amphotericin B, IC₅₀ = (0.1±0.01)μmol/L; macrophage, IC₅₀ > 40μmol/L; HFF, IC₅₀ > 40μmol/L)^[5424]. **Source:** JING JI GUA TAI MU *Guatteria dumetorum*, NAN TIAN ZHU ZI *Nandina domestica*, NAN TIAN ZHU GENG *Nandina domestica*. **Ref:** 2732, 2733, 5424.

**15780 (S)-Nornuciferine**

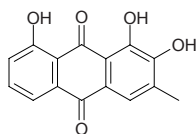
C₁₈H₁₉NO₂ (281.36). [α]_D²² = +138c° (c = 0.22, EtOH). **Pharm:** Antileishmanial (*Leishmania panamensis*, IC₅₀ = (28±11)μmol/L, control Amphotericin B, IC₅₀ = (0.1±0.01)μmol/L; *Leishmania mexicana*, IC₅₀ = (14±1)μmol/L, Amphotericin B, IC₅₀ = (0.1±0.01)μmol/L; macrophage, IC₅₀ > 40μmol/L; HFF, IC₅₀ > 40μmol/L). **Source:** DA YE GUA TAI MU *Guatteria amplifolia*. **Ref:** 5424.

**15781 N-Nornuciferine**

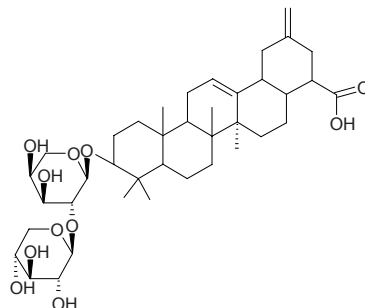
C₁₈H₁₉NO₂ (281.36). mp (-) 128~129°C. **Pharm:** Diuretic; LD₅₀ (mus, ip) = 323μmol/kg. **Source:** HE HUA YU LAN *Magnolia grandiflora*, HE YE *Nelumbo nucifera*, JIN HUANG LIAN *Nelumbo lutea*, LIAN ZI *Nelumbo nucifera*, YUAN HUA FAN LI ZHI *Annona glabra*. **Ref:** 6, 658.

**15782 Norobtusifolin**

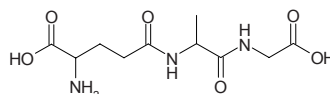
C₁₅H₁₀O₅ (270.24). **Pharm:** Cytotoxic (hmn cancer cell line). **Source:** TIE ZI *Myrsine africana*. **Ref:** 658.

**15783 30-Noroleanolic acid-3-O-β-D-xylosyl(1→2)-α-L-arabinopyranoside**

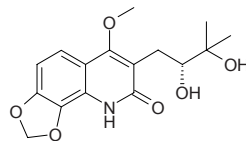
C₃₉H₆₀O₁₁ (704.91). **Source:** MU TONG *Akebia quinata*. **Ref:** 2723.

**15784 Norophthalmic acid**

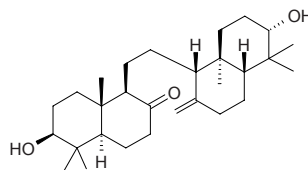
[16305-88-7] C₁₀H₁₇N₃O₆ (275.26). **Source:** QUN DAI CAI *Undaria pinnatifida*. **Ref:** 2735.

**15785 Nor-orixine**

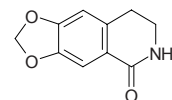
C₁₆H₁₉NO₆ (321.33). mp 199~200°C. **Source:** CHOU SHAN YANG *Orixa japonica*. **Ref:** 6.

**15786 26-Nor-8-oxo-α-onocerin**

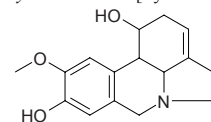
C₂₉H₄₈O₃ (444.70). **Source:** YU BAI SHI SONG *Lycopodium obscurum*. **Ref:** 2736.

**15787 Noroxyhydrastinine**

[21796-14-5] C₁₀H₉NO₃ (191.19). Crystals (MeOH or C₆H₆), mp 182~183°C, 187~187.5°C. **Source:** GAO SHAN TANG SONG CAO *Thalictrum alpinum*, MA WEI LIAN *Thalictrum foliolosum*, TIE XIAN JUE YE TANG SONG CAO *Thalictrum minus* var. *adiantifolium*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 1521, 2737, 2738.

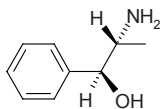
**15788 Norpluviine**

C₁₆H₁₉NO₃ (273.33). mp 239~241°C (dec), 274~275°C. **Source:** SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*]. **Ref:** 6.

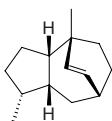


15789 D-Norpseudoephedrine

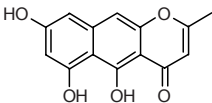
D-Cathine [37577-07-4] C₉H₁₃NO (151.21). Plates (MeOH), mp 77°C, [α]_D²⁰ = +33.14° (EtOH). **Pharm:** Anorexic; CNS stimulant. **Source:** BAN ZI MA HUANG *Ephedra lepidosperma* (herbaceous twigs: content = 0.011%)^[5508], DAN ZI MA HUANG *Ephedra monosperma* (herbaceous twigs: content = 0.245%)^[5508], KE SHI MEI DENG MU *Maytenus krukovii*, LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 3 origins = 0.160%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: mean content of 5 origins = 0.076%)^[5508], MO GUO MA HUANG *Ephedra przewalskii* (herbaceous twigs: mean content of 2 origins = 0.013%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: mean content of 2 origins = 0.321%)^[5508], QIAO CHA *Catha edulis*, SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.075%)^[5508], SHU ZHUANG MA HUANG *Ephedra procera* (herbaceous twigs: content = 0.0012%)^[5508], SHUANG SUI MA HUANG *Ephedra distachya* (herbaceous twigs: content = 0.0017%)^[5508], XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = 0.026%)^[5508], XI ZI MA HUANG *Ephedra regeliana* (herbaceous twigs: content = 0.0015%)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content of 2 origins = 0.065%)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = 0.028%)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: mean content of 3 origins = 0.110%)^[5508], *Ephedra tweediana* (herbaceous twigs: content = 0.0003%)^[5508], *Ephedra* sp. **Ref:** 2, 6, 658, 660, 1521, 5508.

**15790 (-)-Norrotundene**

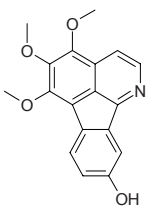
C₁₄H₂₂ (190.33). **Source:** XIANG FU *Cyperus rotundus* (essential oil). **Ref:** 5210.

**15791 Nor-rubrofusarin**

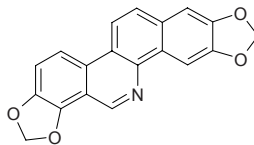
C₁₄H₁₀O₅ (258.23). **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2.

**15792 Norrufescine**

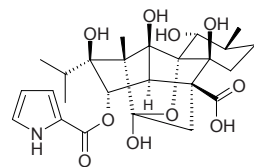
[58189-34-7] C₁₈H₁₅NO₄ (309.32). Yellow needles, mp 236–238°C. **Pharm:** Cytotoxic (P₃₈₈). **Source:** HONG A BU TA CAO *Abuta rufescens*, XI SHENG TENG *Cissampelos pareira*, YI MEI NI A BU TA CAO *Abuta imene*, *Telitoxicum peruvianum*. **Ref:** 2739, 2740, 2741.

**15793 Norsanguinarine**

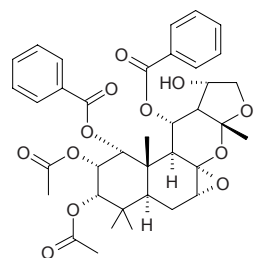
C₁₉H₁₁NO₄ (317.30). **Source:** YING SU KE *Papaver somniferum*. **Ref:** 6.

**15794 20-Norspiganthine-5-carboxylic acid**

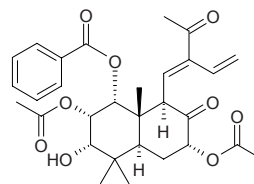
C₂₅H₃₃NO₁₀ (507.54). Crystals (CHCl₃:MeOH = 1:1), mp > 300°C, [α]_D = +15° (c = 0.4). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

**15795 Norstaminol A**

C₃₇H₄₂O₁₂ (678.74). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 44.4 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L, Polymixin B, IC₅₀ = 27.8 μg/mL, Dexamethasone IC₅₀ = 170 μmol/L). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

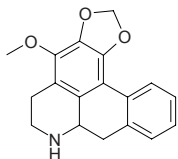
**15796 Norstaminone A**

C₃₀H₃₆O₉ (540.62). Colorless amorphous solid, [α]_D²⁵ = +28.9° (c = 0.10, CHCl₃). **Pharm:** Cytotoxic (antiproliferative, Colon26-L5, ED₅₀ = 12.8 μg/mL, control 5-Fluorouracil, ED₅₀ = 0.015 μg/mL; HT1080, ED₅₀ = 23.2 μg/mL, 5-Fluorouracil, ED₅₀ = 0.48 μg/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0029% dw). **Ref:** 3053.

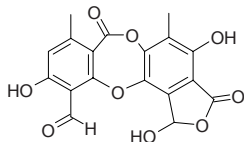


15797 Norstephalagine

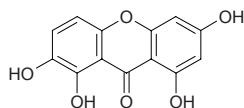
(-)-Norstephalagine [80151-82-2] $C_{18}H_{17}NO_3$ (295.34). Crystals (isopropyl ether), mp 94–95°C, $[\alpha]_D = -35^\circ$ ($c = 0.98$, alcohol). **Pharm:** Inhibits 3H -dopamine absorption by synapse of rat striatum; smooth muscle relaxant (rat uterus, contraction induced by KCl). **Source:** FEI ZHOU FAN LI ZHI *Hexalobus crispiflorus*, HUANG YANG YE MU BAN SHU *Xylopiya buxifolia*, JI XIANG YING ZHAO *Artabotrys odoratissimus*, MAN GE YING ZHAO *Artabotrys maingayi*, XIU LI YING ZHAO *Artabotrys venustus*, *Isolona maitlandii*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root and stem)^[3083]. **Ref:** 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 3083.

**15798 Norstictic acid**

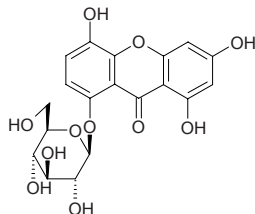
[571-67-5] $C_{18}H_{12}O_9$ (372.29). Needles (Me₂CO aq.), mp 286–287°C. **Source:** JIN SI SHUA *Lethariella cladonioides*, XIAO LA BA *Cladonia verticillata*. **Ref:** 660, 1521.

**15799 Norswertianin**

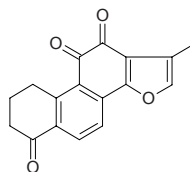
$C_{13}H_8O_6$ (260.21). **Pharm:** Mutagen (*Salmonella typhimurium*). **Source:** PU TONG ZHANG YA CAI *Swertia swertiopsis*, RI BEN ZHANG YA CAI *Swertia japonica*, SU GEN ZHANG YA CAI *Swertia perennis*. **Ref:** 658.

**15800 Norswertianol**

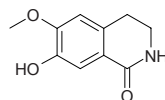
Bellidin 8-*O*-β-glucopyranoside $C_{19}H_{18}O_{11}$ (422.35). **Pharm:** Antibacterial (*Mycobacterium tuberculosis*); AChE inhibitor (MIC = 0.50 μg = 1.20 nmol; control Galanthamine MIC = 0.01 μg = 0.03 nmol, Physostigmine MIC = 0.005 μg = 0.002 nmol, Huperzine A MIC = 0.002 μg = 0.0008 nmol). **Source:** LUAN DA SHAN ZHANG YA CAI *Swertia randainensis*, RI BEN ZHANG YA CAI *Swertia japonica*, ZI SE ZHANG YA CAI *Swertia purpurascens*, TIAN YE LONG DAN *Gentiana campestris* (leaf). **Ref:** 658, 5039.

**15801 Nortanshinone**

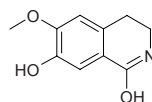
$C_{17}H_{12}O_4$ (280.28). **Pharm:** Cytotoxic. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2, 1521.

**15802 Northalifoline (tautomeric structure 1)**

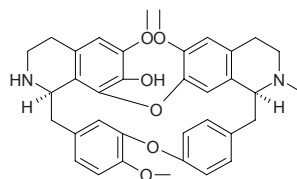
$C_{10}H_{11}NO_3$ (193.20). **Source:** BIAN FU GE GEN *Menispermum dauricum*, HEI KE NAN *Lindera megaphylla* (pedicels). **Ref:** 1521, 3792.

**15803 Northalifoline (tautomeric structure 2)**

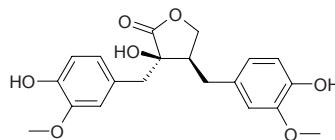
$C_{10}H_{11}NO_3$ (193.20). **Source:** BIAN FU GE GEN *Menispermum dauricum*, HEI KE NAN *Lindera megaphylla* (pedicels). **Ref:** 1521, 3792.

**15804 (+)-2-Northalrugosine**

[65995-42-8] $C_{36}H_{38}N_2O_6$ (594.71). $[\alpha]_D = +209^\circ$ ($c = 0.16$, CHCl₃). **Pharm:** Cytotoxic (non-selective); antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, ED₅₀ = 68.6 ng/mL; chloroquine-endured strain W2, ED₅₀ = 125.1 ng/mL). **Source:** ZHI LI QIAN JIN TENG *Stephania erecta*, *Pycnarrhena ozantha*. **Ref:** 2750, 2728.

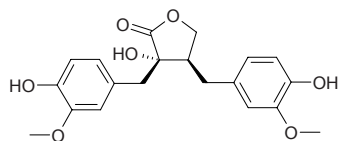
**15805 (+)-Nortrachelogenin**

(+)-Wikstromol [61521-74-2] $C_{20}H_{22}O_7$ (374.39). **Pharm:** DPPH scavenger (IC₅₀ = 90.1 μmol/L); inhibits nitric oxide (NO) production inactive (IC₅₀ > 200 μmol/L). **Source:** LIAO GE WANG GEN *Wikstroemia indica*, CHANG YE SONG *Pinus palustris*. **Ref:** 1521, 4526.

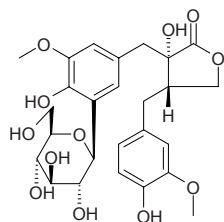


15806 (-)-Nortrachelogenin

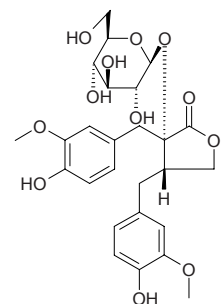
(-)-Wikstromol [34444-37-6] C₂₀H₂₂O₇ (374.39). **Pharm:** Antineoplastic (leukemia); anti-HIV. **Source:** AI JI JIA HU CI *Carissa edulis*, CHANG YE SONG *Pinus palustris*, DI ZHONG HAI JU *Cnicus benedictu*, RI BEN LUO SHI *Trachelospermum asiaticum*, WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*]. **Ref:** 1521.

**15807 Nortrachelogenin-5'-C-β-D-glucopyranoside**

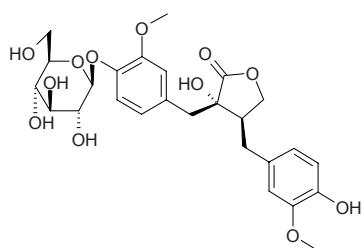
C₂₆H₃₂O₁₂ (536.54). White amorphous solid, [α]_D²⁵ = -38° (c = 0.62, MeOH). **Source:** LUO SHI TENG *Trachelospermum jasminoides* (stem and leaf). **Ref:** 5051.

**15808 Nortrachelogenin-8'-O-β-D-glucopyranoside**

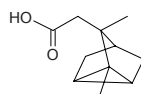
C₂₆H₃₂O₁₂ (536.54). White amorphous solid, [α]_D²⁵ = -58° (c = 0.57, MeOH). **Source:** LUO SHI TENG *Trachelospermum jasminoides* (stem and leaf). **Ref:** 5051.

**15809 Nortracheloside**

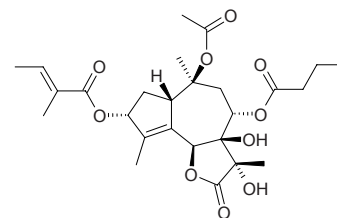
C₂₆H₃₂O₁₂ (536.54). mp 95~100°C. **Pharm:** DPPH scavenger (IC₅₀ = 84.2 μmol/L)^[4526]; NO production inhibitor inactive (IC₅₀ > 200 μmol/L)^[4526]. **Source:** DI ZHONG HAI JU *Cnicus benedictu*, LIAO GE WANG GEN *Wikstroemia indica*, LUO SHI TENG *Trachelospermum jasminoides*. **Ref:** 6, 1521, 4526.

**15810 Nortricycloekasantalic acid**

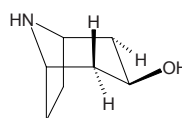
[59300-52-6] C₁₁H₁₆O₂ (180.25). Crystals (EtOH), mp 93°C, [α]_D = -33.3°(EtOH). **Source:** TAN XIANG *Santalum album*. **Ref:** 2752.

**15811 Nortrilobolide**

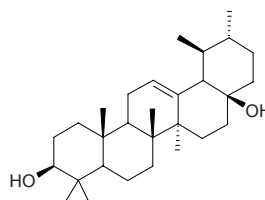
[136051-63-3] C₂₆H₃₆O₁₀ (508.57). [α]_D²⁵ = -49° (c = 0.05, CHCl₃). **Pharm:** Histamine secretion promotor. **Source:** DU HU LUO BO *Thapsia garganica*. **Ref:** 2753.

**15812 Nor-ψ-tropine**

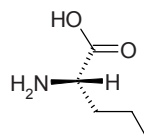
C₇H₁₃NO (127.19). **Pharm:** α-Glucosidase inhibitor inactive (control 1-Deoxynojirimucin, IC₅₀ = 0.98 mmol/L, Fagoming, IC₅₀ = 15 mmol/L). **Source:** SANG BAI PI *Morus alba*. **Ref:** 4161.

**15813 28-Nor-urs-12-ene-3β-,17β-diol**

C₂₉H₄₈O₂ (428.70). Amorphous solid, [α]_D²⁰ = +26° (c = 0.02, CHCl₃). **Pharm:** Cytotoxic (HL-60 cells, IC₅₀ = (51±1) μmol/L). **Source:** ZHI ZHUANG E AN *Eucalyptus cladocalyx* (leaf). **Ref:** 5259.

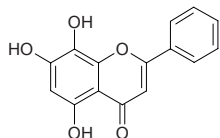
**15814 Norvaline**

C₅H₁₁NO₂ (117.15). **Source:** DENG XIN CAO *Juncus effusus*, PING GUO *Malus pumila*. **Ref:** 660.

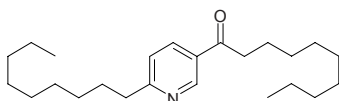


15815 Norwogonin

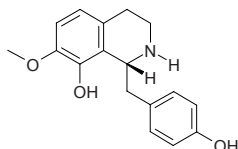
[4443-09-8] C₁₅H₁₀O₅ (270.24). **Pharm:** Mutagen (*Salmonella typhimurium* TA100, with no action in TA98). **Source:** DIAN HUANG QIN *Scutellaria amoena*, HUANG QIN *Scutellaria baicalensis*, LIU YE CAI HUANG QIN *Scutellaria epilobifolia*, ZI BEI HUANG QIN *Scutellaria discolor*. **Ref:** 2, 658, 660.

**15816 2-Noryl-5-decanoylpyridine**

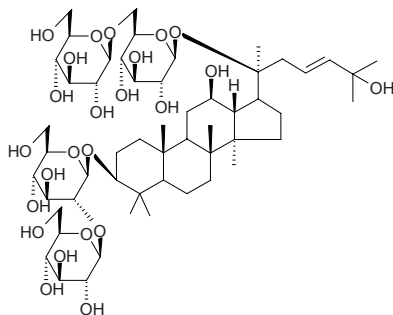
C₂₄H₄₁NO (359.60). **Source:** YU XING CAO *Houttuynia cordata*. **Ref:** 2428.

**15817 Noryzaphine**

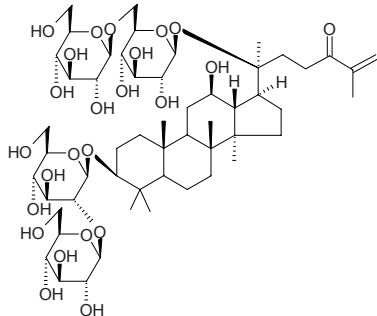
C₁₇H₁₉NO₃ (285.35). **Source:** KU DI DING *Corydalis bungeana*. **Ref:** 2761.

**15818 Notoginsenoside A**

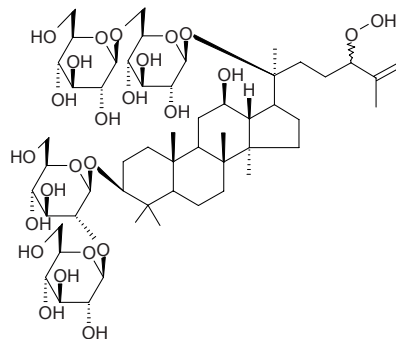
C₅₄H₉₂O₂₄ (1125.32). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15819 Notoginsenoside B**

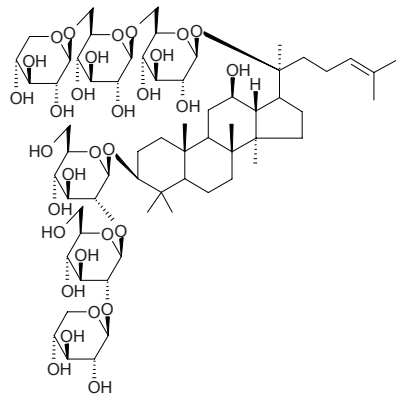
[193895-26-0] C₅₄H₉₀O₂₄ (1123.31). Crystals (MeOH aq.), mp 201~204 °C, [α]_D²³ = +17.8° (c = 0.1, MeOH). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 1521.

**15820 Notoginsenoside C**

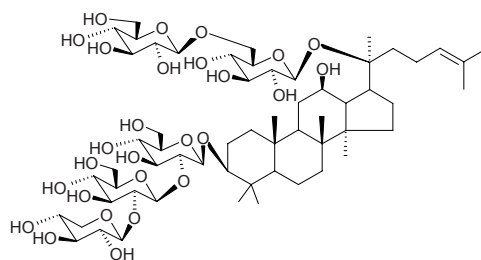
C₅₄H₉₂O₂₅ (1141.32). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15821 Notoginsenoside D**

C₆₄H₁₀₈O₃₁ (1373.56). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level)^[4139]. **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.009%dw)^[4702]. **Ref:** 4139, 4702.

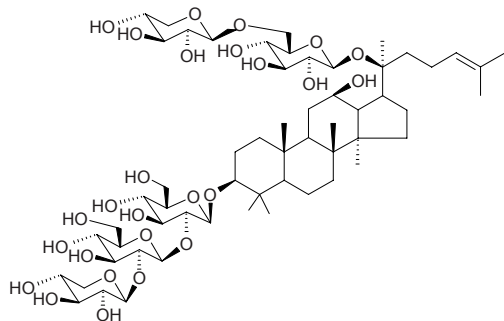
**15822 Notoginsenoside Fa**

C₅₉H₁₀₀O₂₇ (1241.44). **Pharm:** Neurite outgrowth enhancer (hmn neuroblastoma SK-N-SH cells, 100 μmol/L, total length of neurites = 112.5 μm, number of varicosity per cell = 0.53, p < 0.05; control, total length of neurites = 45.3 μm, number of varicosity per cell = 0.10)^[4647]. **Source:** SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.41%dw), ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.011%dw). **Ref:** 4647, 4702.

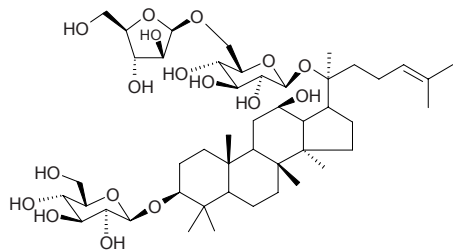


15823 Notoginsenoside Fc

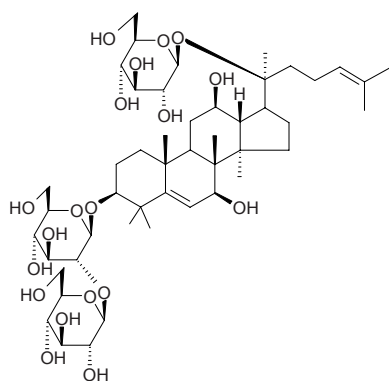
$C_{58}H_{98}O_{26}$ (1211.41). **Source:** ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0048%dw). **Ref:** 4647.

**15824 Notoginsenoside Fe**

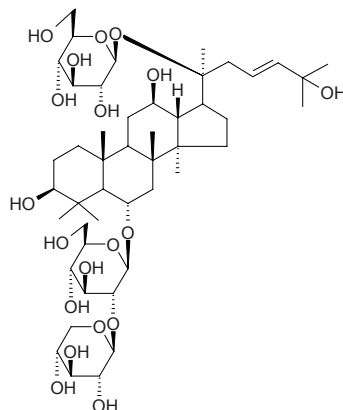
$C_{47}H_{80}O_{17}$ (917.15). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower: mean content of 8 origins = 1.15%)^[5525], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0008%dw)^[4647]. **Ref:** 4647, 5525.

**15825 Notoginsenoside G**

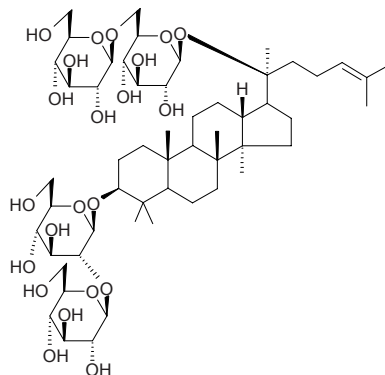
$C_{48}H_{80}O_{19}$ (961.16). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level)^[4139]. **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0008%dw)^[4647]. **Ref:** 4139, 4647.

**15826 Notoginsenoside H**

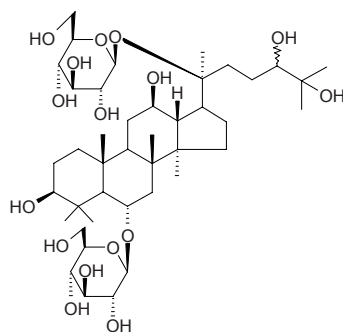
$C_{47}H_{80}O_{19}$ (949.15). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15827 Notoginsenoside I**

$C_{54}H_{92}O_{22}$ (1093.32). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

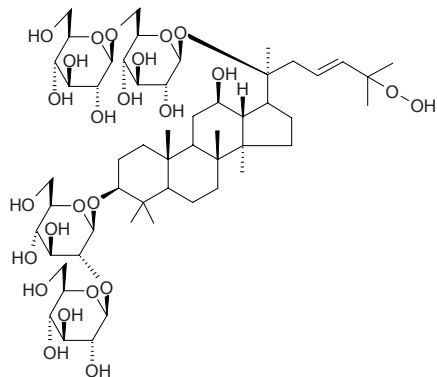
**15828 Notoginsenoside J**

$C_{42}H_{74}O_{16}$ (835.05). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

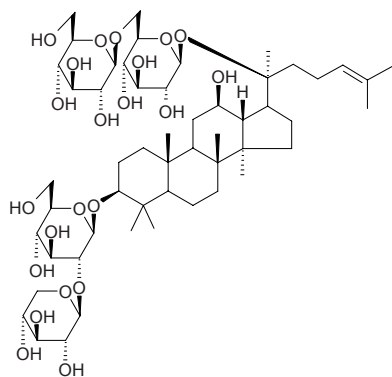


15829 Notoginsenoside K

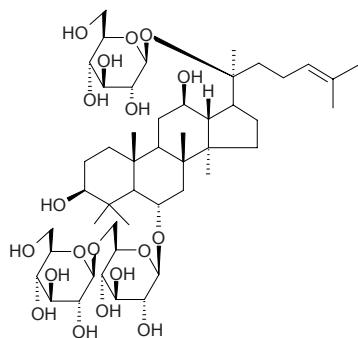
$C_{54}H_{92}O_{25}$ (1141.32). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15830 Notoginsenoside L**

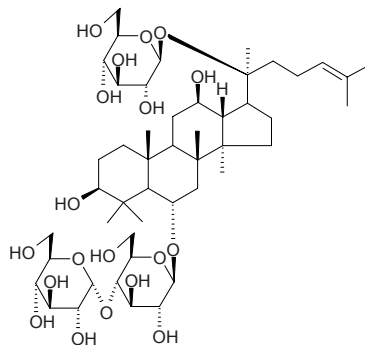
$C_{53}H_{90}O_{22}$ (1079.30). Colorless fine crystals (aqueous MeOH), mp 195–197°C, $[\alpha]_D^{28} = +20.4^\circ$ ($c = 0.1$, MeOH). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15831 Notoginsenoside M**

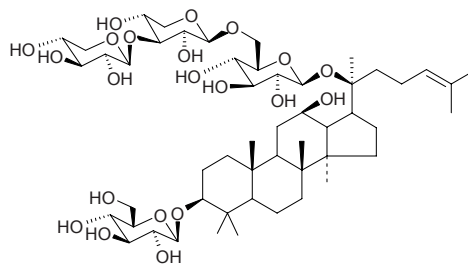
$C_{48}H_{82}O_{19}$ (963.18). Colorless fine crystals (aqueous MeOH), mp 187–189°C, $[\alpha]_D^{28} = +24.7^\circ$ ($c = 0.3$, MeOH). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15832 Notoginsenoside N**

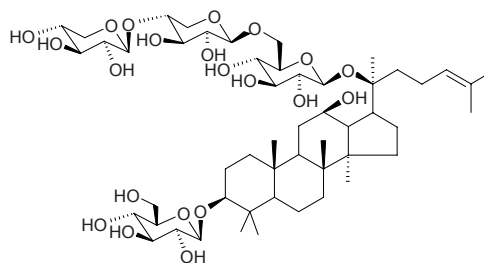
$C_{48}H_{82}O_{19}$ (936.18). Colorless fine crystals (aqueous MeOH), mp 186–188°C, $[\alpha]_D^{28} = +50.0^\circ$ ($c = 0.3$, MeOH). **Pharm:** Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 4139.

**15833 Notoginsenoside O**

3-*O*- β -*D*-Glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl (1→3)- β -*D*-xylopyranosyl(1→6)- β -*D*-glucopyranoside $C_{52}H_{88}O_{21}$ (1049.27). Colorless fine crystals, mp 196–198°C (CHCl₃–MeOH), $[\alpha]_D^{28} = +0.3^\circ$ ($c = 1.30$, MeOH). **Source:** SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.010%dw). **Ref:** 4702.

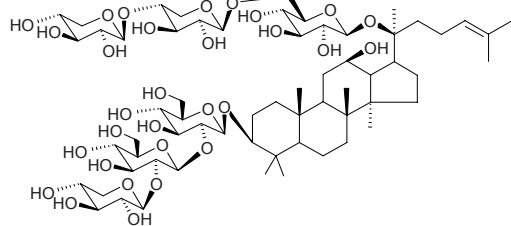
**15834 Notoginsenoside P**

3-*O*- β -*D*-Glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1→4)- β -*D*-xylopyranosyl(1→6)- β -*D*-glucopyranoside $C_{52}H_{88}O_{21}$ (1049.27). Colorless fine crystals, mp 194–196°C (CHCl₃–MeOH), $[\alpha]_D^{28} = +2.1^\circ$ ($c = 1.00$, MeOH). **Source:** SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.011%dw). **Ref:** 4702.

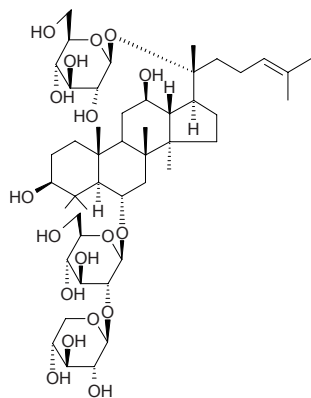


15835 Notoginsenoside Q

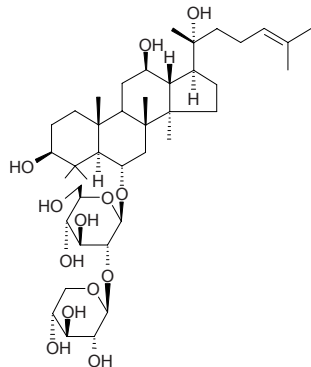
3-*O*- β -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -D-xylopyranosyl(1 \rightarrow 4)- β -D-xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside C₆₃H₁₀₆O₃₀ (1343.53). Colorless fine crystals, mp 194~196°C (CHCl₃-MeOH), [α]_D²⁸ = -0.6° (c = 0.70, MeOH). Source: SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.014%dw). Ref: 4702.

**15836 Notoginsenoside R₁**

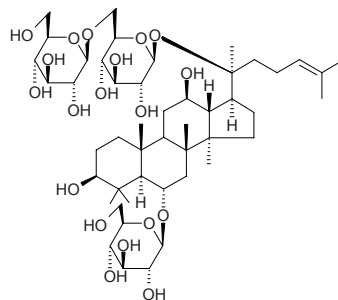
C₄₇H₈₀O₁₈ (933.15). Pharm: Anti-inflammatory (total saponins of SAN QI, *Panax pseudoginseng* var. *notoginseng*); hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 87%; 100mg/kg ip for sAST, InRt = 89%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.023%dw)^[4610]. Ref: 2, 658, 4610, 4702.

**15837 Notoginsenoside R₂**

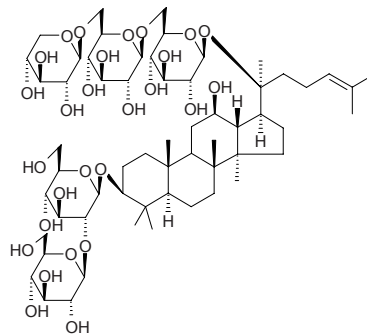
[80418-25-3] C₄₁H₇₀O₁₃ (771.01). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 1521.

**15838 Notoginsenoside R₃**

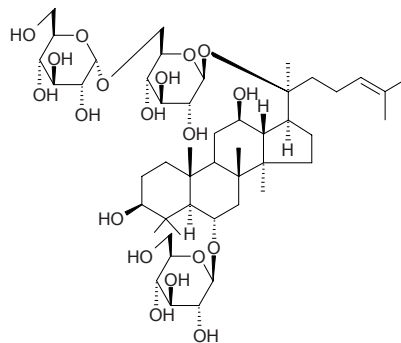
C₄₈H₈₂O₁₉ (963.18). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**15839 Notoginsenoside R₄**

C₅₉H₁₀₀O₂₇ (1241.44). Pharm: Neurite outgrowth enhancer (hmn neuroblastoma SK-N-SH cells, 100μmol/L, total length of neurites = 116.1μm, number of varicosity per cell = 0.68, *p* < 0.05; control, total length of neurites = 45.3μm, number of varicosity per cell = 0.10)^[4647]. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0143%dw)^[4647]. Ref: 2, 1521, 4647.

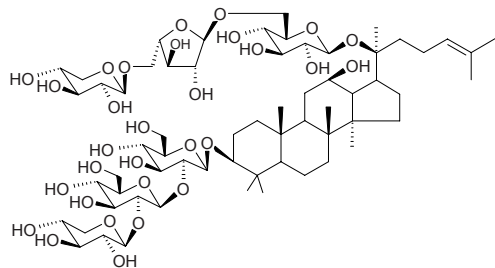
**15840 Notoginsenoside R₆**

C₄₈H₈₂O₁₉ (936.18). Pharm: Hepatoprotective (inhibits activation of macrophages, inhibits increase in sALT and sAST levels, *in vivo*, D-GalN/LPS-induced liver injury in mouse, 100mg/kg ip for sALT, InRt = 32%; 100mg/kg ip for sAST, InRt = 44%; control Hydrocortisone, 20mg/kg ip for sALT, InRt = 99%; 20mg/kg ip for sAST, InRt = 97%)^[4702]. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0058%dw)^[4610]. Ref: 2, 1521, 4610, 4702.

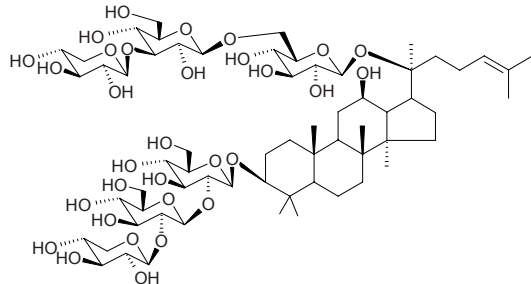


15841 Notoginsenoside S

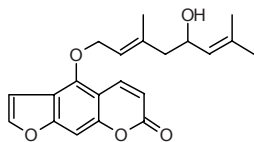
3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1 \rightarrow 5)- α -*L*-arabinofuranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₃H₁₀₆O₃₀ (1343.53). Colorless fine crystals, mp 186–188°C (CHCl₃–MeOH), [α]_D²⁸ = –8.7° (*c* = 1.40, MeOH). **Source:** SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.029%dw). **Ref:** 4702.

**15842 Notoginsenoside T**

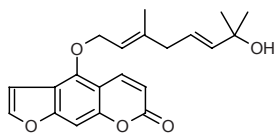
3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₄H₁₀₈O₃₁ (1373.56). Colorless fine crystals, mp 196–198°C (CHCl₃–MeOH), [α]_D²⁸ = +6.8° (*c* = 1.20, MeOH). **Source:** SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.008%dw). **Ref:** 4702.

**15843 Notopterol**

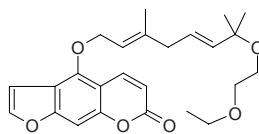
[88206-46-6] C₂₁H₂₂O₅ (354.41). **Pharm:** Analgesic (mus, orl, acetate acid-induced tail-swing model, presents dose-response relationship); sedative (mus, orl, 10–30mg/kg, extends sleeping time induced by pentobarbital); anti-inflammatory (mouse, orl, 100mg/kg, inhibits increase of vaso-permeability). **Source:** QIANG HUO *Notopterygium incisum*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*]. **Ref:** 2, 325, 507, 566, 660, 1826.

**15844 Notoptol**

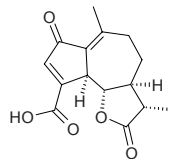
[88206-49-9] C₂₁H₂₂O₅ (354.41). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2, 507.

**15845 Notoptolide**

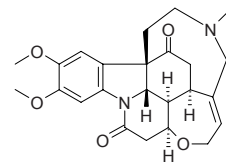
5-(2*E*)-3,7-dimethyl-5-ethoxy-2,6-octadienyloxy psoralen C₂₅H₃₀O₆ (426.51). Colorless oleaginous substance. **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 325.

**15846 Notoserolide**

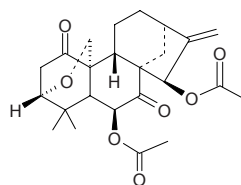
C₁₅H₁₆O₅ (276.29). Yellowish prismatic crystals, mp 238–240°C, [α]_D²⁰ = –11° (MeOH). **Source:** LING YE ZI JU *Notoseris rhombiformis*. **Ref:** 2217.

**15847 Novacine**

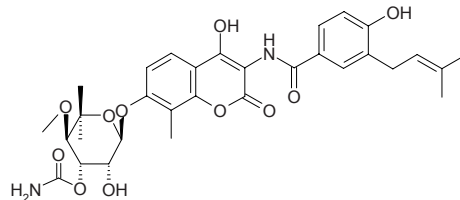
[466-64-8] C₂₄H₂₈N₂O₅ (424.50). mp 231–232°C. **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 6, 542.

**15848 Novelrabdosin**

[92627-27-5] C₂₄H₃₀O₇ (430.50). mp 230–232°C, [α]_D¹³ = –175.5° (*c* = 0.98, C₅H₅N). **Source:** XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, **Ref:** 2763, 2764, 4067.

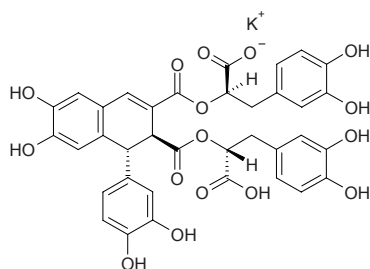
**15849 Novobiocin**

[303-81-1] C₃₁H₃₆N₂O₁₁ (612.64). **Pharm:** Antibacterial; antimicrobial (veterinary); antiviral; plasma protein binder. **Source:** Ray-fungus *Streptomyces spheroids*, Ray-fungus *Streptomyces niveus*. **Ref:** 658.

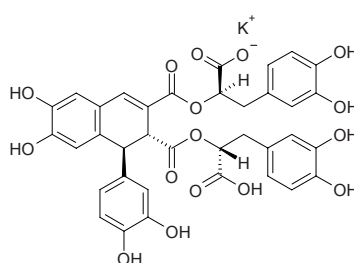


15850 NP02140176-38-K

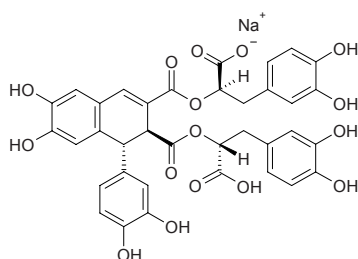
$C_{36}H_{29}KO_{16}$ (756.72). **Pharm:** Anti-HIV. **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**15854 NP02140176-42-K**

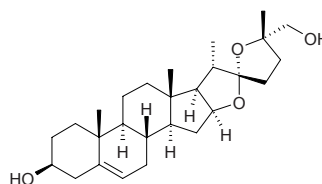
$C_{36}H_{29}KO_{16}$ (756.72). **Pharm:** Anti-HIV. **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**15851 NP02140176-39-Na**

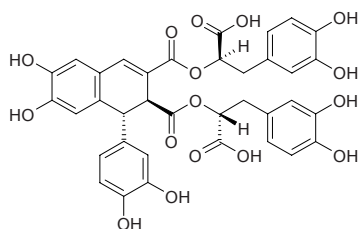
$C_{36}H_{29}NaO_{16}$ (740.61). **Pharm:** Anti-HIV. **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**15855 Nuatigenin**

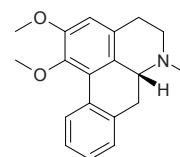
[6811-35-4] $C_{27}H_{42}O_4$ (430.63). **Pharm:** Antifungal. **Source:** YAN MAI *Avena sativa*, DING QIE *Solanum aculeatissimum*. **Ref:** 658.

**15852 NP02140176-40**

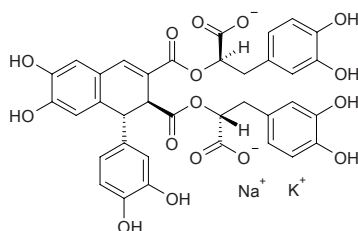
$C_{36}H_{30}O_{16}$ (718.63). **Pharm:** Anti-HIV. **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

**15856 Nuciferine**

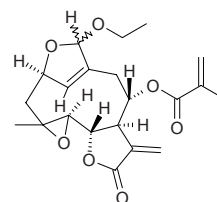
[475-83-2] $C_{19}H_{21}NO_2$ (295.38). mp (-) 165.5°C, (±) 136–137°C. **Source:** HE YE *Nelumbo nucifera*, HE YE DI *Nelumbo nucifera*, LIAN ZI *Nelumbo nucifera*, LIAN ZI XIN *Nelumbo nucifera*. **Ref:** 6.

**15853 NP02140176-41-KNa**

$C_{36}H_{28}KNaO_{16}$ (778.70). **Pharm:** Anti-HIV. **Source:** ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. **Ref:** 2193.

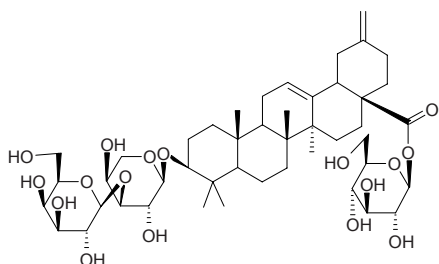
**15857 Nudaphantin**

[96627-10-0] $C_{21}H_{26}O_7$ (390.44). Colorless oil, $[\alpha]_D = -16^\circ$ ($c = 0.5$, $CHCl_3$). **Pharm:** Cytotoxic (KB, $IC_{50} = 0.31 \mu g/mL$). **Source:** LUO DI DAN CAO *Elephantus nudatus*. **Ref:** 2765.

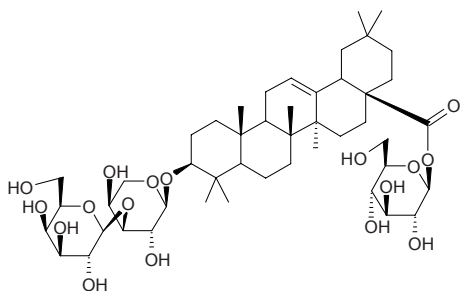


15858 Nudicaucin A

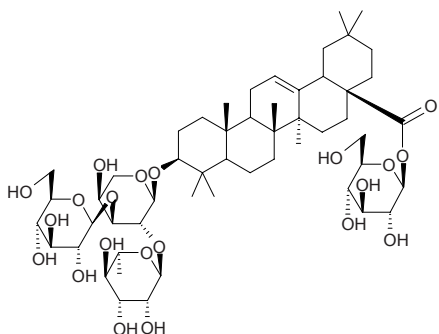
[211815-97-3] C₄₆H₇₂O₁₇ (897.08). White lamellar crystals, mp 291.5–293°C (dec), [α]_D = +71.3° (c = 0.44, MeOH), TLC: R_f = 0.25 (75% MeOH), 0.15 (CHCl₃: MeOH = 2:1). **Pharm:** Antibacterial (*Bacillus subtilis* M45 and H17, weak activity). **Source:** LUO JING ER CAO *Hedyotis nudicaulis*. **Ref:** 2766.

**15859 Nudicaucin B**

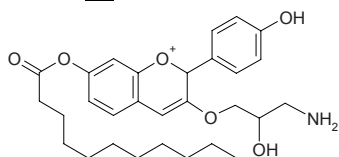
[211557-36-7] C₄₇H₇₆O₁₇ (913.12). mp 256–259°C (dec); [α]_D = +34.5° (c = 0.22, MeOH), TLC: R_f = 0.17 (75% MeOH), 0.15 (CHCl₃: MeOH = 2:1). **Pharm:** Antibacterial (*Bacillus subtilis* M45 and H17, weak activity). **Source:** LUO JING ER CAO *Hedyotis nudicaulis*. **Ref:** 2766.

**15860 Nudicaucin C**

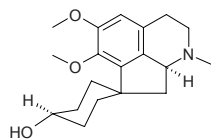
[211815-98-4] C₅₃H₈₆O₂₁ (1059.26). mp 257–260°C (dec); [α]_D = -4.9° (c = 0.41, MeOH), TLC: R_f = 0.17 (75% MeOH), 0.04 (CHCl₃: MeOH = 2:1). **Pharm:** Antibacterial (*Bacillus subtilis* M45 and H17, weak activity). **Source:** LUO JING ER CAO *Hedyotis nudicaulis*. **Ref:** 2766.

**15861 Nudicaulin**

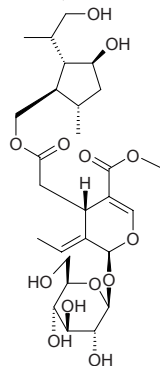
C₂₉H₄₀NO₆⁺ (498.65). **Source:** LIE YE YE YING SU *Papaver nudicaule* var. *chinense*. **Ref:** 2767.

**15862 Nudicaulonol**

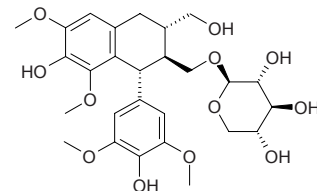
C₁₉H₂₇NO₃ (317.43). **Source:** LIE YE YE YING SU *Papaver nudicaule* var. *chinense*. **Ref:** 2768.

**15863 Nudifloside D**

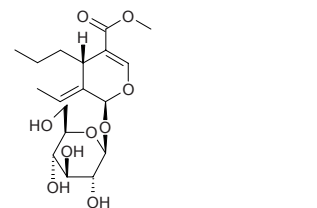
C₂₇H₄₂O₁₃ (574.63). Colorless amorphous powder, [α]_D²⁴ = -161° (c = 0.41, MeOH). **Source:** YING CHUN HUA *Jasminum nudiflorum* (leaf). **Ref:** 4169.

**15864 Nudiposide**

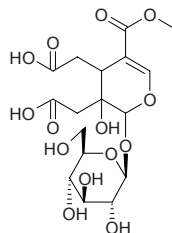
[62058-46-2] C₂₇H₃₆O₁₂ (552.58). Crystals (Me₂CO–C₆H₆), mp 175–178°C, [α]_D^{29.5} = -67.1° (c = 1.43, EtOH). **Source:** HONG NAN PI *Machilus thunbergii*, JIA MI *Viburnum dilatatum*, *Enkianthus nudipes*. **Ref:** 660, 2769.

**15865 Nuezhengalaside**

C₁₈H₂₈O₉ (388.42). Colorless powder, mp 144–147°C. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 386.

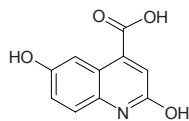
**15866 Nuezhenidic acid**

C₁₇H₂₄O₁₄ (452.37). mp 232–233°C. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 8.

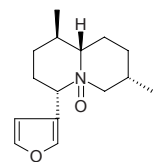


15867 Nukagenin

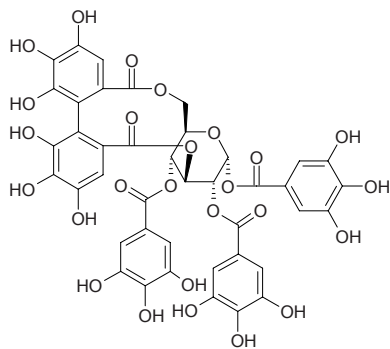
$C_{10}H_7NO_4$ (205.17). Source: MI PI KANG *Oryza sativa*. Ref: 660.

**15868 Nupharidine**

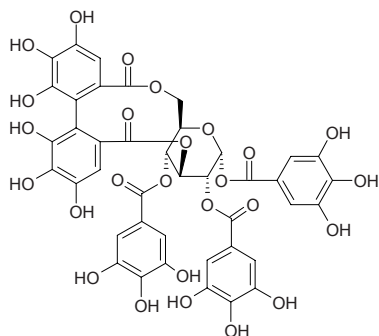
[468-89-3] $C_{15}H_{23}NO_2$ (249.36). mp 222°C, $[\alpha]_D = +14.5^\circ$ (H₂O). Source: PING PENG CAO *Nuphar pumilum*, RI BEN PING PENG CAO *Nuphar japonicum*. Ref: 2770.

**15869 Nupharin A(S)**

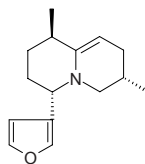
[81956-07-2] $C_{41}H_{30}O_{26}$ (938.68). White powder (H₂O), mp 243~245°C (dec), $[\alpha]_D^{24} = -51.4^\circ$ ($c = 1.2$, acetone). Pharm: Antibacterial (*Staphylococcus aureus*, *Saccharomyces cerevisiae*); topoisomerase II inhibitor (IC₁₀₀ = 0.2 μmol/L). Source: BAN YE PING PENG CAO *Nuphar variegatum*, RI BEN PING PENG CAO *Nuphar japonicum*. Ref: 2771, 2772, 2773.

**15870 Nupharin B(R)**

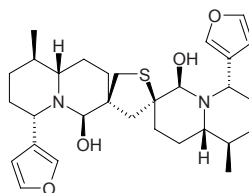
[121916-42-5] $C_{41}H_{30}O_{26}$ (938.68). Colorless needles (H₂O), mp 258°C, $[\alpha]_D^{24} = +38.5^\circ$ ($c = 0.8$, acetone). Pharm: Antibacterial (*Staphylococcus aureus*, *Saccharomyces cerevisiae*). Source: BAN YE PING PENG CAO *Nuphar variegatum*, RI BEN PING PENG CAO *Nuphar japonicum*. Ref: 2771, 2772.

**15871 Nupharopumiline**

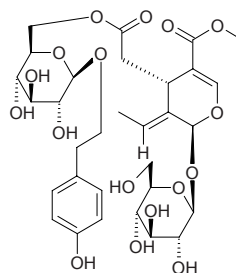
[63947-66-0] $C_{15}H_{21}NO$ (231.34). Crystals (CCl₄), mp 195~197°C, $[\alpha]_D^{20} = +27^\circ$ (CHCl₃). Source: PING PENG CAO *Nuphar pumilum*. Ref: 2770.

**15872 Nuphleine**

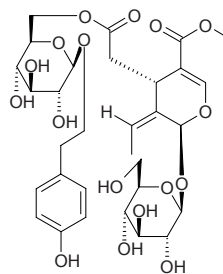
[30343-70-5] $C_{30}H_{42}N_2O_4S$ (526.74). Glassy mass, $[\alpha]_D^{25} = +44.5^\circ$ ($c = 1.2$, chloroform). Pharm: Antibacterial (*Staphylococcus aureus*, chloride 0.24~7.8 μg/mL); antifungal (*Blastomyces* sp., *Microsporium* sp., and *Trichophyton mentagrophytes*, IC = 100 μg/mL); toxin (mus, ip, 400 mg/(kg·d) for 30d, 4/6 death, 100 and 200 mg/(kg·d) for 30d, no death observed). Source: PING PENG CAO *Nuphar pumilum*. Ref: 661, 1521.

**15873 (8E)-Nüzhenide**

Nuezhenide; Specnuezhenide $C_{31}H_{42}O_{17}$ (686.67). Amorphous powder, mp 152~155°C, $[\alpha]_D^{26} = -140.0^\circ$ ($c = 0.6$, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf), NV ZHEN ZI *Ligustrum lucidum* (ripe fruit: content scope of 6 origins = 0.68%~1.18%; mean content = 0.90%^[5508]). Ref: 386, 2789, 3545, 4175, 5508.

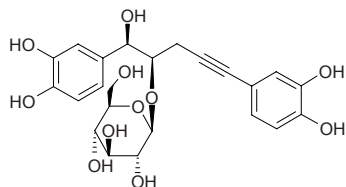
**15874 (8Z)-Nüzhenide**

$C_{31}H_{42}O_{17}$ (686.67). Amorphous powder, $[\alpha]_D^{26} = -101.1^\circ$ ($c = 1.0$, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf). Ref: 4175.

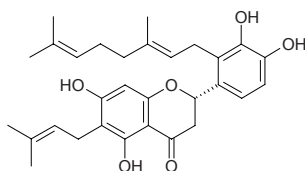


15875 Nyasicoside

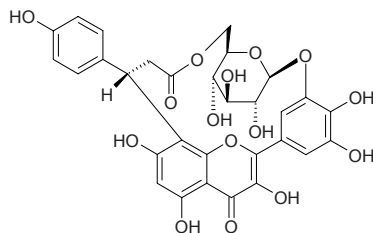
[111518-94-6] $C_{23}H_{26}O_{11}$ (478.46). mp 120~122°C (EtOH-EtOAc), $[\alpha]_D^{20} = +14.7^\circ$ ($c = 0.9$, MeOH). **Pharm:** Antiarrhythmic (gpg, arrhythmia induced by uabain, for arrhythmia induced by 6 μ mol/L uabain, 3 μ mol/L returns normal rhythm for over 10min); contracts blood vessels (*in vitro*, rabbit aorta, facilitating effect on adrenaline evoked contractions, 1~30 μ mol/L)^[5095]. **Source:** DA YE XIAN MAO *Curculigo capitulata* [Syn. *Leucojum capitulata*], MAO XIAN MAO *Curculigo pilosa* (rhizome). **Ref:** 2775, 2776, 2777, 5095.

**15876 (-)-Nymphaeol C**

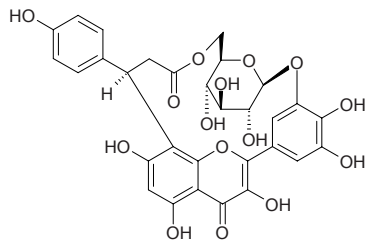
$C_{30}H_{36}O_6$ (492.62). **Source:** XUE TONG *Macaranga tanarius* (fallen leave). **Ref:** 3062.

**15877 Nympholide A**

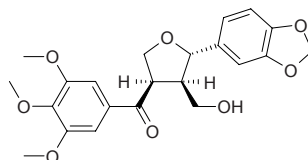
$C_{30}H_{26}O_{15}$ (626.53). Brown amorphous solid, mp 174~178°C (dec). **Source:** CHI YE SHUI LIAN *Nymphaea lotus*. **Ref:** 3405.

**15878 Nympholide B**

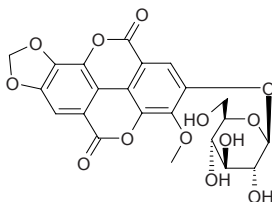
$C_{30}H_{26}O_{15}$ (626.53). Brown amorphous solid, mp 198°C (dec., softens at 168°C). **Source:** CHI YE SHUI LIAN *Nymphaea lotus*. **Ref:** 3405.

**15879 Nymphone**

[194026-36-3] $C_{22}H_{24}O_8$ (416.43). Colorless prisms (CH_2Cl_2 -acetone), mp 123~125°C, $[\alpha]_D^{25} = -47.4^\circ$ ($c = 0.08$, $CHCl_3$). **Pharm:** Cytotoxic (A549 $ED_{50} = 3.024\mu$ g/mL; HT29 $ED_{50} = 0.740\mu$ g/mL; KB15 $ED_{50} = 0.639\mu$ g/mL; P388 $ED_{50} = 0.321\mu$ g/mL). **Source:** SHUI LIAN YE TONG *Hernandia nymphaeifolia*. **Ref:** 2778.

**15880 Nyssoside**

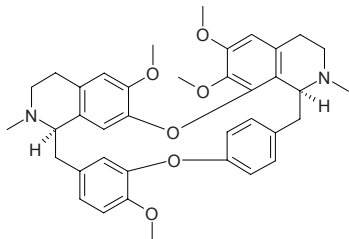
3'-O-Methyl-3,4-O-methylideneellagic acid-4'-O- β -D-glucopyranoside $C_{22}H_{18}O_{13}$ (490.38). White acicular crystals (MeOH), mp 273~275°C, soluble in pyridine, slightly soluble in methanol, water. **Source:** ZI SHU *Nyssa sinensis*, XI SHU *Camptotheca acuminata*. **Ref:** 492, 4097.



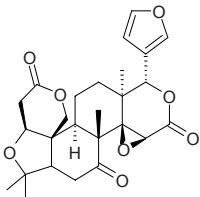
O

15881 Obaberine

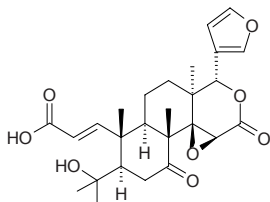
[1263-80-5] $C_{38}H_{42}N_2O_6$ (622.77). mp 139~140°C. **Pharm:** Antibacterial (*Staphylococcus aureus* and *Mycobacterium smegmatis*, MIC = 1mg/mL; *Mycobacterium tuberculosis*, active concentration without serum = 7.8 μ g/mL, with serum = 62.5 μ g/mL); antifungal (*Candida albicans*, MIC = 1mg/mL); antihypertensive (dog, 2mg/kg, lowers of blood pressure by 5.3328kPa); antitrypanosomal; antiviral (influenza virus, 1mg/mL). **Source:** HUANG XIAO BO *Berberis tschonoskiana*, PU FU SHI DA GONG LAO *Mahonia repens*, SAN RUI LIAN GUI *Dehaasia triandra*, TOU MING TANG SONG CAO *Thalictrum lucidum*, XIA YE TANG SONG CAO *Thalictrum incidum*, XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 4, 658.

**15882 Obaculactone**

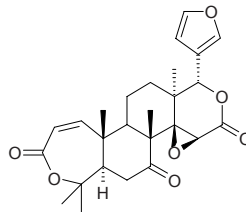
Dictamnolactone [1180-71-8] $C_{26}H_{30}O_8$ (470.52). mp 297~298°C (dec). **Pharm:** Anthelmintic; antiulcerative (rat, induced by aspirin, *in vivo*); hypoglycemic (rbt, *in vivo*); inhibits intestinal movement (rbt, *in vivo*). **Source:** BAI SE BAI XIAN *Dictamnus albus*, BAI XIAN PI *Dictamnus dasycarpus*, CHENG ZI *Citrus junos*, CHENG ZI HE *Citrus junos*, FU JU *Citrus tangemna*, GOU JU *Poncirus trifoliata*, HUANG BAI *Phellodendron amurense*, HUANG LIAN *Coptis chinensis*, JU HE *Citrus reticulata*, JU YUAN *Citrus medica*, LIAN YE WU ZHU YU *Evodia melifolia*, SU DA QI GAN JU *Citrus sudachii*, TIAN CHENG *Citrus sinensis*, WU ZHU YU *Evodia rutaecarpa*, XIANG YUAN *Citrus wilsonii*, YOU⁽⁴⁾ *Citrus grandis*, YOU HE *Citrus grandis*, YU KE GAN JU *Citrus yuko*, ZHI KE *Citrus aurantium*. **Ref:** 2, 6, 658.

**15883 Obacunoic acid**

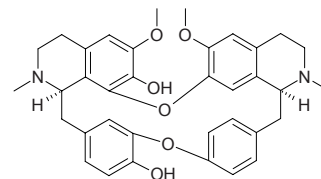
Obacunoic acid $C_{26}H_{32}O_8$ (472.54). mp 205~206°C. **Source:** BAI XIAN PI *Dictamnus dasycarpus*, HUANG BAI *Phellodendron amurense*. **Ref:** 2, 660.

**15884 Obacunone**

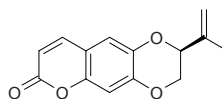
[751-03-1] $C_{26}H_{30}O_7$ (454.52). Crystals (MeOH), mp 229~230°C, $[\alpha]_D = -50^\circ$ (CHCl₃). **Pharm:** Promotes intestinal motion (rbt, *in vitro*). **Source:** HUANG BAI *Phellodendron amurense*. **Ref:** 2, 658, 660, 1521.

**15885 (+)-Obamegine**

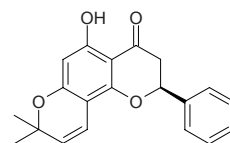
[479-37-8] $C_{36}H_{38}N_2O_6$ (594.71). Colorless acicular crystals (ether), mp 164~166°C, $[\alpha]_D^{11} = +98.9^\circ$ ($c = 0.2022$, methanol). **Pharm:** Mitochondrial respiratory chain complex I inhibitor (IC₅₀ = (1.41±0.13) μ mol/L, Rolliniastatin-1, IC₅₀ = (0.6±0.04)nmol/L, Rotenone, IC₅₀ = (5.10±0.90)nmol/L)^[4954]; antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Salmonella gallinarum* and *Bacillus pneumoniae*, MIC = 100 μ g/mL; *Mycobacterium smegmatis*, MIC = 50 μ g/mL); antifungal (*Candida albicans*, MIC = 100 μ g/mL); antihypertensive (dog, dose of 0.5mg/kg, 1.0mg/kg and 2.0mg/kg, lowers blood pressure by 7.71kPa, 8.65kPa and 9.98kPa, respectively). **Source:** GE LUN BI YA MU BAN SHU *Xylopia columbiana* (fruit), HUANG GEN SHU *Xanthorhiza simplicissima*, HUANG XIAO BO *Berberis tschonoskiana*, PU FU SHI DA GONG LAO *Mahonia repens*, QIAN JIN TENG *Stephania japonica*, TOU MING TANG SONG CAO *Thalictrum lucidum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 6, 661, 4954.

**15886 Obliquin**

$C_{14}H_{12}O_4$ (244.25). **Pharm:** Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100 μ g/cm², oedema = (3.9±0.5)mg, $p < 0.05$, reduction = 50%, Indomethacin oedema = (3.4±0.3)mg, $p < 0.05$, reduction = 56%). **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 4985.

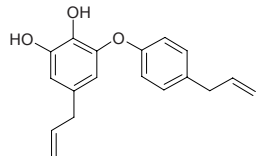
**15887 Obovatin**

$C_{20}H_{18}O_4$ (322.36). **Source:** DU HUI MAO DOU *Tephrosia toxicaria* (stem; yield = 0.0026%dw). **Ref:** 4718.

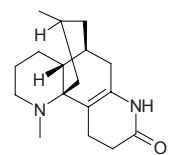


15888 Obovatol

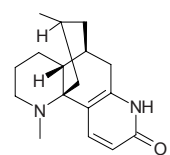
[83864-78-2] C₁₈H₁₈O₃ (282.34). Pharm: Antibacterial. Source: HOU PO *Magnolia officinalis*. Ref: 2860, 2861.

**15889 α -Obscurine**

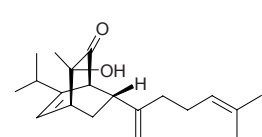
[596-55-4] C₁₇H₂₆N₂O (274.41). mp 322~323°C. Source: GUO JIANG LONG *Lycopodium complanatum*, XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. Ref: 6.

**15890 β -Obscurine**

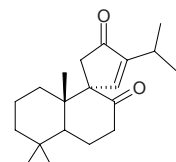
[467-79-8] C₁₇H₂₄N₂O (272.39). mp 322~323°C (dec). Source: XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. Ref: 6.

**15891 Obtunone**

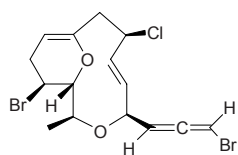
C₂₀H₃₀O₂ (302.46). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4298.

**15892 Obtusadione**

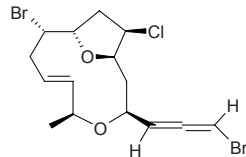
C₂₀H₃₀O₂ (302.46). mp 178~179°C, [α]_D¹⁹ = -79.1° (c = 0.30, CHCl₃). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4298.

**15893 Obtusallene I**

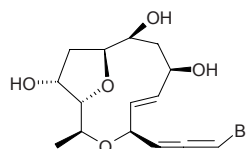
[81920-18-5] C₁₅H₁₇Br₂ClO₂ (424.56). Crystals (Et₂O-petroleum ether), mp 165~167°C, [α]_D¹⁷ = -257.6° (c = 0.53, CHCl₃). Source: DUN XING AO DING ZAO *Laurencia obtusa*. Ref: 2894, 2895.

**15894 Obtusallene II**

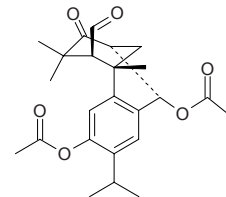
[133485-41-3] C₁₅H₁₉Br₂ClO₂ (426.58). Crystals (hexane-C₆H₆), mp 147~149°C, [α]_D²³ = -272° (c = 0.35, CHCl₃). Source: DUN XING AO DING ZAO *Laurencia obtusa*. Ref: 2795.

**15895 Obtusallenetriol**

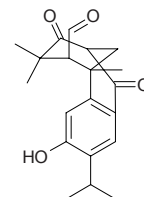
[133462-32-5] C₁₅H₂₁BrO₅ (361.24). Crystals (CHCl₃), mp 78~80°C (dec), [α]_D²⁴ = -141.5° (c = 0.245, Me₂CO). Source: DUN XING AO DING ZAO *Laurencia obtusa*. Ref: 2795.

**15896 Obtusanal A**

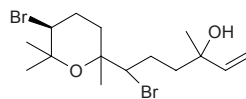
C₂₄H₃₀O₆ (414.50). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4298.

**15897 Obtusanal B**

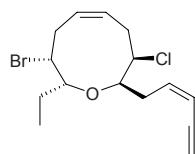
C₂₀H₂₄O₄ (328.41). mp 192~194°C, [α]_D²⁸ = -195.9° (c = 0.41, CHCl₃). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4298.

**15898 Obtusenol**

[79406-07-8] C₁₅H₂₆Br₂O₂ (398.18). Oil, [α]_D¹⁶ = -50.2° (c = 1.7, CHCl₃). Source: DUN XING AO DING ZAO *Laurencia obtusa*. Ref: 2911, 2912.

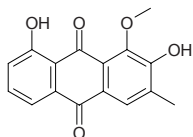
**15899 Obtusenyne**

[71939-43-0] C₁₅H₂₀BrClO (331.68). Oil, [α]_D²⁰ = +111.4° (c = 2.8, CHCl₃). Source: *Laurencia* sp. Ref: 2934, 2935, 4002.

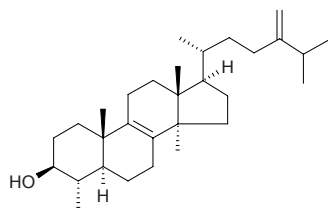


15900 Obtusifolin

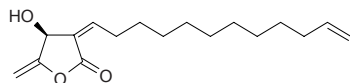
2,8-Dihydroxy-1-methoxy-3-methylantraquinone [477-85-0] C₁₆H₁₂O₅ (284.27). mp 237~238°C. Source: JUE MING ZI *Cassia tora*. Ref: 2.

**15901 Obtusifolol**

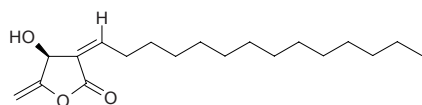
[16910-32-0] C₃₀H₅₀O (423.73). mp 144°C. Source: SHI LA HONG *Pelargonium hortorum*, MAN TUO LUO ZI *Datura metel*, GOU QI ZI *Lycium chinense*. Ref: 2907, 1372.

**15902 Obtusilactone**

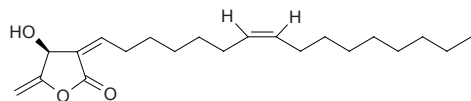
[56799-51-0] C₁₇H₁₆O₃ (278.39). Viscous liquid, [α]_D²³ = -53° (c = 0.35, MeOH). Pharm: Cytotoxic (hmn A549, ED₅₀ = 3.32 μg/mL, MCF7, ED₅₀ = 4.58 μg/mL, HT29, ED₅₀ = 3.26 μg/mL, BST, LC₅₀ = 0.035 mg/L, InRt of potato culture dish PD test = 64.2%). Source: GUI PI DIAO ZHANG *Lindera benzoin*, SAN ZUAN FENG *Lindera obtusiloba*, ZHANG SHU PI *Cinnamomum camphora*. Ref: 1053, 1119.

**15903 Obtusilactone A**

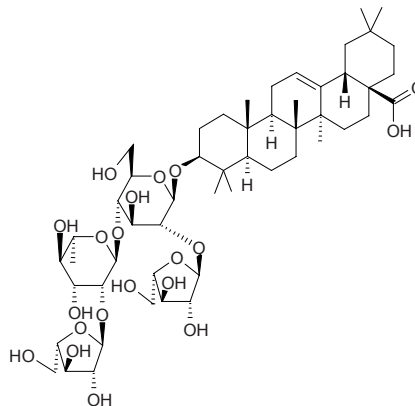
[56522-15-7] C₁₉H₃₂O₃ (308.47). Colorless ropy liquid, [α]_D²³ = -46° (c = 0.45, CHCl₃). Pharm: Cytotoxic (hmn MCF7, ED₅₀ = 5.12 μg/mL, HT29, ED₅₀ = 2.93 μg/mL, BST, LC₅₀ = 0.89 mg/L). Source: GUI PI DIAO ZHANG *Lindera benzoin*, SAN ZUAN FENG *Lindera obtusiloba*, *Persea borbonia*, *Persea* spp. Ref: 2875, 2876, 1053.

**15904 Obtusilactone B**

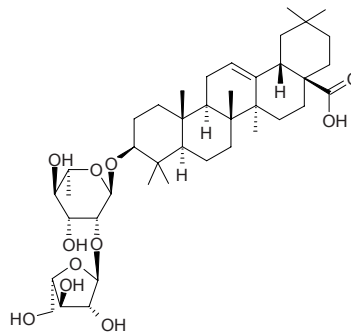
[58940-65-1] C₂₁H₃₄O₃ (334.50). Oil. Source: SAN ZUAN FENG *Lindera obtusiloba*. Ref: 2881.

**15905 Obtusilobicinin**

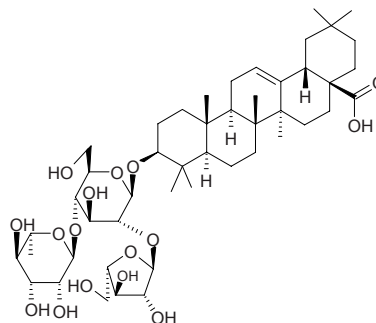
[76016-61-0] C₅₂H₈₄O₂₀ (1029.24). mp 226°C. Source: DUN LIE YIN LIAN HUA *Anemone obtusiloba*. Ref: 660, 1521.

**15906 Obtusilobin**

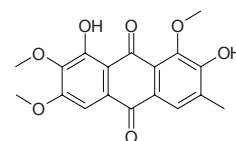
[73519-18-3] C₄₁H₆₆O₁₁ (734.98). Crystals (MeOH), mp 190°C. Source: DUN LIE YIN LIAN HUA *Anemone obtusiloba*. Ref: 660, 1521.

**15907 Obtusilobinin**

[73519-19-4] C₄₇H₇₆O₁₆ (897.12). Crystals (MeOH), mp 220°C. Source: DUN LIE YIN LIAN HUA *Anemone obtusiloba*. Ref: 660, 1521.

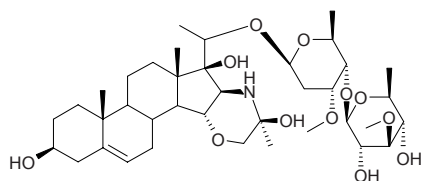
**15908 Obtusin**

1,7-Dihydroxy-2,3,8-trimethoxy-6-methylantraquinone [70588-05-5] C₁₈H₁₆O₇ (344.32). mp 242~243°C. Source: JUE MING ZI *Cassia tora* (in 1960, the compound was isolated from the plant). Ref: 5505.

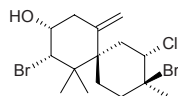


15909 Obtusine-20(R)-O-[β-thevetopyranosyl-(1→4)-β-cymaropyranoside]

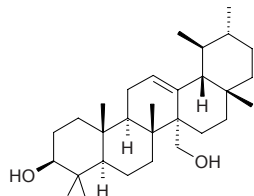
$C_{38}H_{63}NO_{12}$ (725.93). White powder. Source: DUN XING BAI YE TENG *Cryptolepis obtusa* (root). Ref: 3920.

**15910 Obtusol**

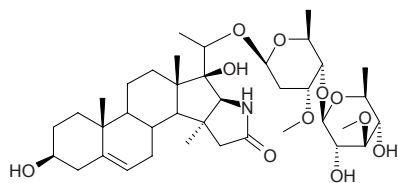
[73494-22-1] $C_{15}H_{23}Br_2ClO$ (414.61). White needles (MeOH-H₂O), mp 145~146°C, $[\alpha]_D = +12^\circ$ ($c = 0.2$, CHCl₃). Pharm: Cytotoxic (HeLa, IC₅₀ = 50 μg/mL); antibacterial (*Staphylococcus aureus*, *Bacillus globisporus*, *Bacillus pyocyaneus*, *Streptococcus faecalis*, 5mg/mL, circle of inhibiting bacterium = 12~18mm). Source: CU SHENG AO DING ZAO *Laurencia caespitosa*, DUN XING AO DING ZAO *Laurencia obtusa*, LUE DA AO DING ZAO *Laurencia majuscula*. Ref: 2801, 2802, 2803, 2804.

**15911 Obtusol**

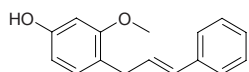
12-Ursene-3β,27-diol [260392-01-6] $C_{30}H_{50}O_2$ (442.73). $[\alpha]_D^{27} = +4^\circ$ ($c = 0.2$, CHCl₃). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf). Ref: 2385.

**15912 Obtusolactam-20(R)-O-[β-thevetopyranosyl-(1→4)-β-cymaropyranoside]**

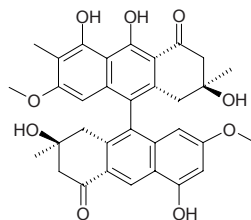
$C_{38}H_{61}NO_{11}$ (707.91). White powder. Source: DUN XING BAI YE TENG *Cryptolepis obtusa* (root). Ref: 3920.

**15913 Obtustyrene**

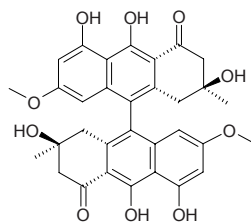
[21148-31-2] $C_{16}H_{16}O_2$ (240.30). Oil, bp 140°C/0.1mmHg (bath). Source: JIANG ZHEN XIANG *Dalbergia odorifera*, *Dalbergia obtusa*, *Dalbergia retusa*. Ref: 1521, 1266.

**15914 Occidentalol I**

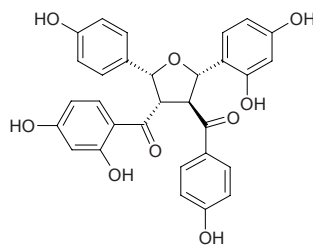
[118528-51-1] $C_{33}H_{32}O_9$ (572.62). Yellow-brown prisms (C₆H₆), mp 280°C (dec). Source: WANG JIANG NAN *Cassia occidentalis*. Ref: 2913.

**15915 Occidentalol II**

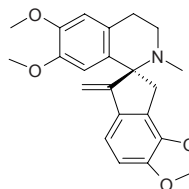
[118528-52-2] $C_{32}H_{30}O_{10}$ (574.59). Yellow-brown prisms (C₆H₆), mp 270°C (dec). Source: WANG JIANG NAN *Cassia occidentalis*. Ref: 2913.

**15916 Ochnone**

rel-4α-(2,4-Dihydroxybenzoyl)-3β-(4-hydroxybenzoyl)-2α-(2,4-dihydroxyphenyl)-5α-(4-hydroxyphenyl)tetrahydrofuran $C_{30}H_{24}O_9$ (528.52). White solid, mp 164~166°C, $[\alpha]_D^{23.1} = -96.7^\circ$ ($c = 0.21$, MeOH). Pharm: Cytotoxic (MCF7 breast cancer cells, MTT method, IC₅₀ = (7±0.5) μmol/L, control Doxorubicin, IC₅₀ = (0.1±0.01) μmol/L); antibacterial inactive (MDR *Staphylococcus aureus*: RN4220 strain, 64 μg/mL, control Erythromycin, MIC = 128 μg/mL; XU212 strain, 64 μg/mL, control Tetracycline, MIC = 128 μg/mL; SA-1199-B strain, 64 μg/mL, control Norfloxacin, MIC = 32 μg/mL). Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*, SANG DAO BU SHI MU *Brackenridgea zanguebarica*. Ref: 5372.

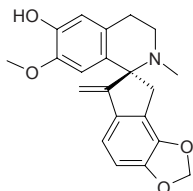
**15917 Ochotensimine**

[4829-36-1] $C_{22}H_{23}NO_4$ (365.43). Syrup, $[\alpha]_D^{20} = +46.3^\circ$ ($c = 0.54$, MeOH). Source: HUANG ZI JIN *Corydalis ochotensis*, SHAN YAN HU SUO *Corydalis bulbosa* [Syn. *Corydalis solida*], XIAO HUANG ZI JIN *Corydalis ochotensis* var. *raddeana*. Ref: 1521, 2920.

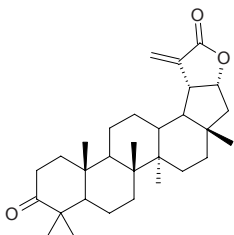


15918 Ochotensine

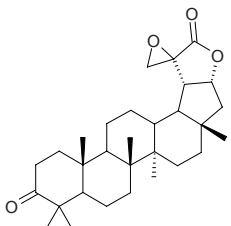
[4959-88-0] $C_{21}H_{21}NO_4$ (351.41). Prisms ($CHCl_3$), mp 252°C, $[\alpha]_D^{24} = +51.7^\circ$ ($c = 0.2$, $CHCl_3$), $[\alpha]_D^{23} = +63.9^\circ$ ($c = 2.0$, 0.1M HCl). Source: BEI ZI JIN *Corydalis sibirica*, DOU ZHUANG HE BAO MU DAN *Dicentra cucullaria*, HUANGZI JIN *Corydalis ochotensis*, SHAN YAN HU SUO *Corydalis bulbosa* [Syn. *Corydalis solida*], XIAO HUANG ZI JIN *Corydalis ochotensis* var. *raddeana*, *Corydalis vaginans*. Ref: 1521, 2964.

**15919 Ochraceolide A**

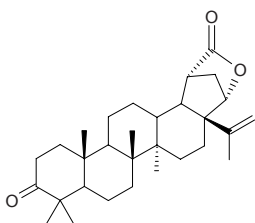
[138913-61-8] $C_{30}H_{44}O_3$ (452.68). Colorless crystals ($CHCl_3$ -MeOH), mp 223~225°C, $[\alpha]_D^{25} = +31^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (P_{388} *in vitro*, $ED_{50} = 0.26\mu g/mL$; BC1, HT, Lu1, KB-V, LNCaP, ZR-75-1, U373: $ED_{50} = 4.5$ ~ $17.2\mu g/mL$). Source: WO LI HE GUAN BAN *Lophopetalum wallichii*, ZHE HUANG KAO GU NA *Kokoona ochracea*. Ref: 2892, 2957.

**15920 Ochraceolide B**

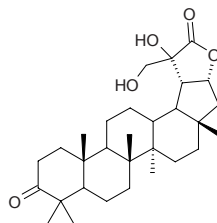
[138913-62-9] $C_{30}H_{44}O_4$ (468.68). Colorless crystals (Et_2O), mp 236~238°C, $[\alpha]_D^{25} = +10^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (P_{388} $ED_{50} = 7.8\mu g/mL$, KB3 $ED_{50} = 5.2\mu g/mL$). Source: ZHE HUANG KAO GU NA *Kokoona ochracea*. Ref: 2892.

**15921 Ochraceolide C**

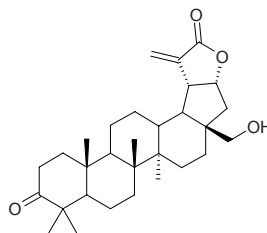
[138913-63-0] $C_{30}H_{44}O_3$ (452.68). Colorless crystals (toluene-pet. ether), mp 236~238°C, $[\alpha]_D^{25} = -25^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (P_{388} *in vitro*, $ED_{50} = 0.53\mu g/mL$). Source: ZHE HUANG KAO GU NA *Kokoona ochracea*. Ref: 2892.

**15922 Ochraceolide D**

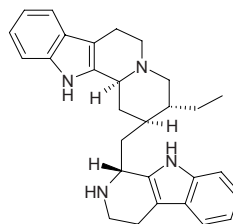
[152221-16-4] $C_{30}H_{46}O_5$ (486.70). Colorless crystals ($CHCl_3$ -MeOH), mp 253~256°C, $[\alpha]_D^{25} = +10^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (hmn malignant glioma cell U373 *in vitro*, $ED_{50} = 3.9\mu g/mL$; HT1080, A-431, LNCaP: weak activity). Source: ZHE HUANG KAO GU NA *Kokoona ochracea*. Ref: 2892.

**15923 Ochraceolide E**

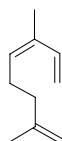
[152231-40-8] $C_{30}H_{44}O_4$ (468.68). Colorless crystals ($CHCl_3$), mp 233~235°C, $[\alpha]_D^{25} = +29^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (HT1080 $ED_{50} = 12.2\mu g/mL$, Mel-2 $ED_{50} = 11.9\mu g/mL$, ZR-75-1 $ED_{50} = 18.8\mu g/mL$, U373 $ED_{50} = 8.6\mu g/mL$). Source: ZHE HUANG KAO GU NA *Kokoona ochracea*. Ref: 2892.

**15924 Ochrolifuanine A**

[35527-46-9] $C_{29}H_{34}N_4$ (438.62). Pharm: Toxin. Source: YI SI MEI GUI SHU *Ochrosia confusa*. Ref: 658.

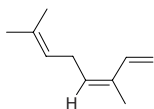
**15925 Ocimene**

α -Ocimene [502-99-8] $C_{10}H_{16}$ (136.24). Source: JU PI *Citrus reticulata*, WU ZHU YU *Evodia rutaecarpa* (in 1915, the compound was isolated from the plant). Ref: 5505.

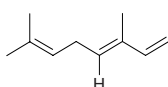


15926 β -cis-Ocimene

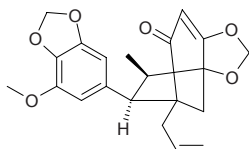
$C_{10}H_{16}$ (136.24). bp 81°C/30mmHg. Source: GUI HUA *Osmanthus fragrans*, HONG NAN PI *Machilus thunbergii*, HU TAO YE *Juglans regia*, JI DAN GUO *Passiflora edulis*, LIAN QIAO *Forsythia suspensa*, MEI GUI HUA *Rosa rugosa*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], YA ER QIN *Cryptotaenia japonica*, YU XIANG CAO *Mentha rotundifolia*, ZHONG BIN JU *Tithonia diversifolia*. Ref: 2, 660.

**15927 β -trans-Ocimene**

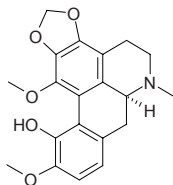
$C_{10}H_{16}$ (136.24). bp 81°C/30mmHg. Source: LIAN QIAO *Forsythia suspensa*, QIANG HUO *Notopterygium incisum*. Ref: 2.

**15928 Ocobullenone**

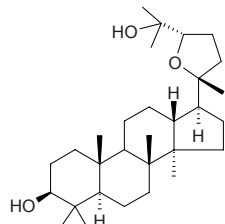
$C_{21}H_{22}O_6$ (370.41). Pharm: Anti-inflammatory (5-LOX inhibitor, IC_{50} = 100 μ mol/L; COX-1 inhibitor, > 500 μ mol/L, inactive, control Indomethacin, IC_{50} = 3.1 μ mol/L, COX-2 inhibitor, > 500 μ mol/L, inactive, Indomethacin, IC_{50} = 188 μ mol/L). Source: NAN FEI ZHANG GUI *Ocotea bullata* (stem cortex). Ref: 3971.

**15929 Ocokryptine**

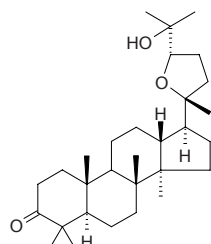
N-Methylhernandine $C_{20}H_{21}NO_5$ (355.39). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC_{50} > 100 μ mol/L, positive control Suramin, IC_{50} = 2.4 μ mol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.

**15930 Ocotillo II**

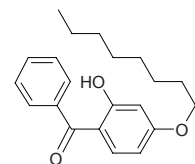
[19942-0-42] $C_{30}H_{52}O_3$ (460.75). Crystals (EtOH), mp 198~200°C, $[\alpha]_D^{25}$ = +28.3° (c = 2.4, $CHCl_3$). Source: LONG NAO GAO XIANG *Dryobalanops aromatica*, HUA LAI CI SHU *Fouquieria splendens*, *Neolloydia texensis*. Ref: 1521, 2439.

**15931 Ocotillone**

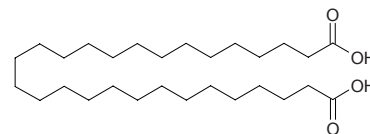
[22549-21-9] $C_{30}H_{50}O_3$ (458.73). Crystals, $[\alpha]_D$ = +50° (dioxane). Pharm: Cytotoxic (leukemia cells L₁₂₁₀, IC_{50} = 20 μ g/mL)^[3786]. Source: LONG NAO GAO XIANG *Dryobalanops aromatica*, *Dipterus hispidus*, *Juliania adstringens* (bark), *Dryanobalanops* spp. Ref: 1521, 2449, 3786.

**15932 Octabenzone**

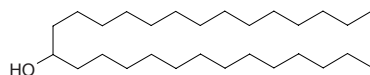
$C_{21}H_{26}O_3$ (326.44). Source: FENG YA JUE *Coniogramme japonica* [Syn. *Hemionitis japonica*]. Ref: 2942.

**15933 Octacosanedioic acid**

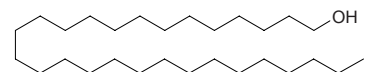
$C_{28}H_{54}O_4$ (454.74). Source: WEN JING *Equisetum arvense*. Ref: 6.

**15934 14-Octacosanol**

[138967-02-9] $C_{28}H_{58}O$ (410.77). mp 79~80°C. Pharm: Aromatase inhibitor (29.6 μ mol/L, InRt = (24.3±8.9)%). Source: YI ZHU QIAN MA *Urtica dioica*. Ref: 900.

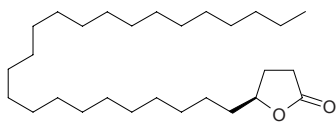
**15935 1-Octacosanol**

[557-61-9] $C_{28}H_{58}O$ (410.77). mp 83.2~83.4°C. Source: BAI GUO *Ginkgo biloba*, HAI HONG DOU *Adenantha pavonina*, HE SHUO YAO HUA *Wikstroemia chamaedaphne*, HUI BAO HAO *Artemisia roxburgiana*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], LAO SHU LE *Acanthus ilicifolius*, MU JIN PI *Hibiscus syriacus*, PEI LAN *Eupatorium fortunei*, SU MU *Caesalpinia sappan*, WU TONG BAI PI *Firmiana simplex*, XIANG MAO *Cymbopogon citratus*, ZE QI *Euphorbia helioscopia*. Ref: 2, 503, 519, 660, 1521.



15936 Octacosan-4-olide

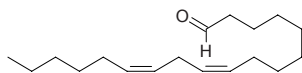
$C_{28}H_{54}O_2$ (422.74). White powder, mp 70°C (Hexane:EtOAc = 9:1). **Pharm:** Phytotoxin inactive (doesn't inhibit radicle growth of *Amaranthus hypochondriacus* and *Echinochloa crusgalli*); CaM interactor inactive. **Source:** FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

**15937 Octacosyl lignocerate**

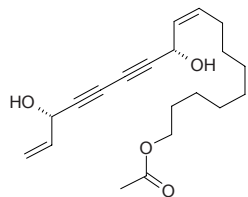
$C_{52}H_{104}O_2$ (761.41). **Source:** CHONG BAI LA *Ericerus pela*. Ref: 6.

**15938 9,12-Octadecadienal**

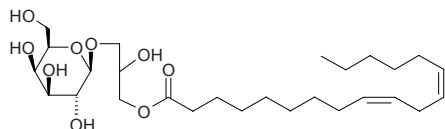
[2541-61-9] $C_{18}H_{32}O$ (264.46). mp -32.3°C. **Source:** SHAN NAI *Kaempferia galanga*, *Hyphantria cunea*. Ref: 1344, 1521.

**15939 9,17-Octadecadiene-12,14-diyne-1,11,16-triol, 1-acetate**

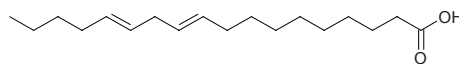
[52691-49-3] $C_{20}H_{28}O_4$ (332.44). Oil, $[\alpha]_D^{25} = +178.3^\circ$ ($c = 8.9$, $CHCl_3$), RI[20, 589nm] = +107° ($c = 0.7$, alcohol). **Pharm:** Antibacterial (*Staphylococcus aureus* RN4220 MIC = 50.0µg/mL; *Bacillus subtilis* MIC = 25.0µg/mL; *Mycobacterium tuberculosis*; isoniazid-resistant *Mycobacterium tuberculosis avium*). **Source:** JIE JIE LEI A WEI *Ferulago nodosa*, MEI ZHOU CI SHEN *Oplonanax horridus*. Ref: 2830, 2831.

**15940 (2S)-1-O-(9Z,12Z-Octadeca-dien-oyl)-3-O-β-D-galactopyranosyl-glycerol**

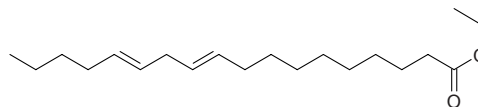
$C_{27}H_{48}O_9$ (516.68). Colorless oil, $[\alpha]_D = -24^\circ$ ($c = 0.1$, MeOH). **Pharm:** PAF antagonist. **Source:** XI LAN ROU GUI *Cinnamomum zeylanicum*. Ref: 2199.

**15941 10,13-Octadecadienoic acid**

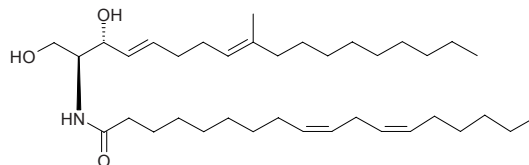
$C_{18}H_{32}O_2$ (280.45). **Source:** BIAN JING HUANG QI *Astragalus complanatus*. Ref: 2882.

**15942 10,13-Octadecadienoic acid ethyl ester**

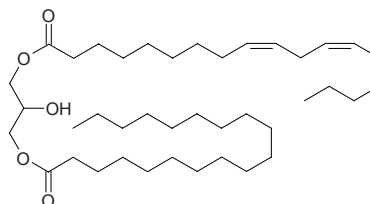
$C_{20}H_{36}O_2$ (308.51). **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 2883.

**15943 (2S,3R,4E,8E,9'Z,12'Z)-N-9',12'-Octadecadienoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol**

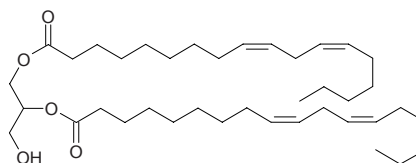
$C_{37}H_{67}NO_3$ (573.95). Amorphous powder, $[\alpha]_D^{30} = -13.3^\circ$ ($c = 0.08$, $CHCl_3$). **Source:** HOU SHU SHAN GU *Panellus serotinus*, *Lyophyllum connatum*. Ref: 4195.

**15944 1-O-(9Z,12Z-Octadecadienoyl)-3-O-nonadecanoyl glycerol**

$C_{40}H_{74}O_5$ (635.03). **Pharm:** Cytotoxic inactive (*in vitro*, LNCaP, $IC_{50} > 100\mu\text{mol/L}$). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0004%dw). Ref: 4607.

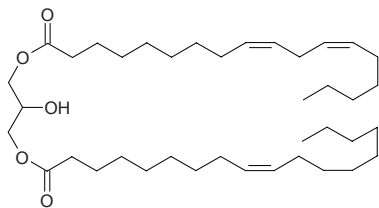
**15945 1-O-(9Z,12Z-Octadecadienoyl)-2-O-(9Z,12Z-octadecadienoyl) glycerol**

$C_{39}H_{68}O_5$ (616.97). **Pharm:** Cytotoxic inactive (*in vitro*, LNCaP, $IC_{50} > 100\mu\text{mol/L}$). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.018%dw). Ref: 4607.

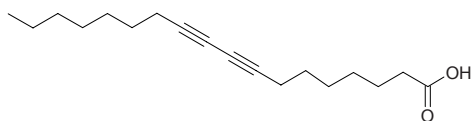


15946 1-O-(9Z,12Z-Octadecadienoyl)-3-O-(9Z-octadecenoyl) glycerol

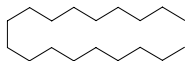
$C_{39}H_{70}O_5$ (628.99). **Pharm:** Cytotoxic inactive (*in vitro*, LNCaP, $IC_{50} > 100\mu\text{mol/L}$). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0012%dw). **Ref:** 4607.

**15947 Octadeca-8,10-dienoic acid**

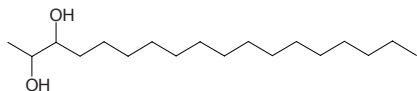
$C_{18}H_{28}O_2$ (276.42). **Pharm:** Inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, InRt = 61.1%). **Source:** HEI ZI LI GUO JI SHENG *Scurrura atropurpurea* (yield = 0.0042%). **Ref:** 4329.

**15948 n-Octadecane**

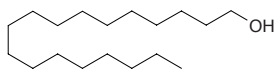
Octadecane [593-45-3] $C_{18}H_{38}$ (254.50). **Source:** DANG SHEN *Codonopsis pilosula*. **Ref:** 2.

**15949 erythro-2,3-Octadecane-diol**

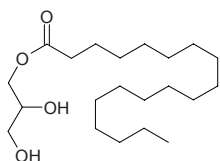
$C_{18}H_{38}O_2$ (286.50). **Source:** ZHI *Phasianus colchicus*. **Ref:** 6.

**15950 Octadecanol**

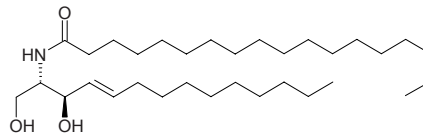
Stearyl alcohol [112-92-5] $C_{18}H_{38}O$ (270.50). **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00035%). **Ref:** 2, 4721.

**15951 1-O-Octadecanoyl glycerol**

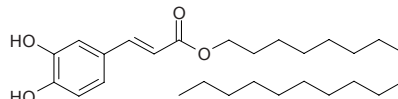
Octadecanoic acid-2,3-dihydroxypropyl ester $C_{21}H_{42}O_4$ (358.57). **Pharm:** Cytotoxic inactive (*in vitro*, LNCaP, $IC_{50} > 100\mu\text{mol/L}$)^[4607]. **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0017%dw), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). **Ref:** 4607, 5319.

**15952 (4E,2S,3R)-2-N-Octadecanoyl-4-tetradecasphingenine**

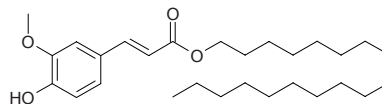
$C_{32}H_{63}NO_3$ (509.86). White powder, $[\alpha]_D^{20} = -3.5^\circ$ ($c = 0.012$, $CHCl_3$). **Source:** BAI JIANG CAN *Bombyx mori*. **Ref:** 4684.

**15953 Octadecanyl caffeate**

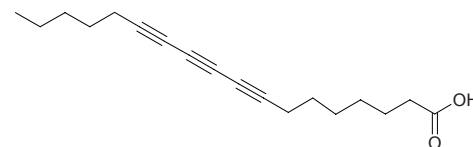
$C_{27}H_{44}O_4$ (432.65). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2193.

**15954 Octadecanyl-3-methoxy-4-hydroxy benzeneacrylate**

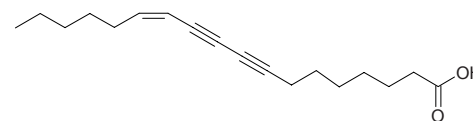
Octadecanyl 3-(4-hydroxy-3-methoxy-phenyl)-acrylate ester $C_{28}H_{46}O_4$ (446.68). White acicular crystals, mp 67.5~69.0°C; white powder, mp 86~89°C. **Pharm:** Inhibitory activity against NFAT Transcription ($IC_{50} = (25.7 \pm 1.7)\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.29 \pm 0.01)\mu\text{mol/L}$)^[2536]. **Source:** DA JI⁽³⁾ *Euphorbia pekinensis*, HUA CHA BIAO *Ribes fasciculatum* var. *chinense*, SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.0011%dw). **Ref:** 360, 2536, 4747.

**15955 Octadeca-8,10,12-trienoic acid**

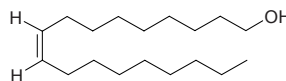
$C_{18}H_{24}O_2$ (272.39). **Pharm:** Inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, InRt = 99.4%, $5\mu\text{g/mL}$, InRt = 94.9%). **Source:** HEI ZI LI GUO JI SHENG *Scurrura atropurpurea* (yield = 0.0170%). **Ref:** 4329.

**15956 (Z)-Octadec-12-ene-8,10-dienoic acid**

$C_{18}H_{26}O_2$ (274.41). **Pharm:** Inhibits cancer cell invasion (MM1 cells, *in vitro*, $10\mu\text{g/mL}$, InRt = 89.8%). **Source:** HEI ZI LI GUO JI SHENG *Scurrura atropurpurea* (yield = 0.0082%). **Ref:** 4329.

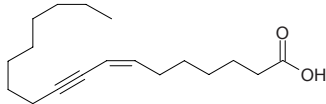
**15957 9(Z)-Octadecen-1-ol**

Oleyl alcohol [143-28-2] $C_{18}H_{36}O$ (268.49). bp 205~210°C/15mmHg. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], LI *Chenopodium album*. **Ref:** 2, 6.

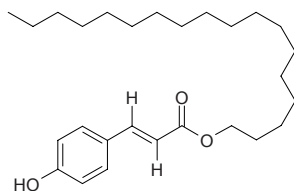


15958 (Z)-7-Octadecen-9-ynoic acid

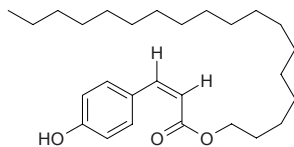
$C_{18}H_{30}O_2$ (278.44). Colorless oil. Source: *Lettowianthus stellatus* (root cortex). Ref: 3944.

**15959 Octadecyl (E)-p-coumarate**

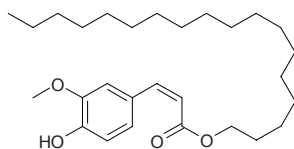
$C_{27}H_{44}O_3$ (416.65). Source: ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root). Ref: 5098.

**15960 Octadecyl (Z)-p-coumarate**

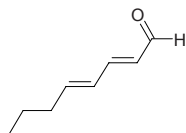
$C_{27}H_{44}O_3$ (416.65). Source: ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root). Ref: 5098.

**15961 Octadecyl (Z)-ferulate**

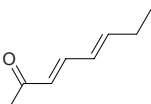
$C_{28}H_{46}O_4$ (446.68). Source: ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root). Ref: 5098.

**15962 (E,E)-2,4-Octadienal**

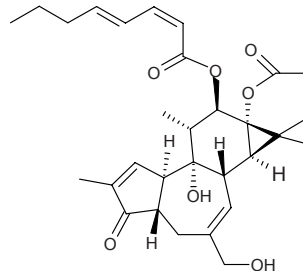
$C_8H_{12}O$ (124.18). Source: KUN BU *Laminaria japonica*. Ref: 1252.

**15963 3,5-Octadiene-2-one**

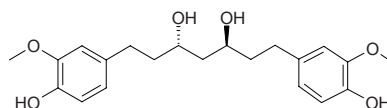
$C_8H_{12}O$ (124.18). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

**15964 12-O-2Z,4E-Octadienoyl-4-deoxyphorbol-13-acetate**

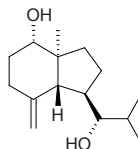
$C_{30}H_{40}O_7$ (512.65). Pharm: Irritant. Source: LU YU SHU *Euphorbia tirucalli*. Ref: 658.

**15965 Octahydrocurcumin**

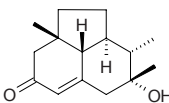
$C_{21}H_{28}O_6$ (376.45). Source: GAO LIANG JIANG *Alpinia officinarum*. Ref: 660.

**15966 Octahydro-4-hydroxy-3α-methyl-7-methylene-α-(1-methylethyl)-1H-indene-1-methanol**

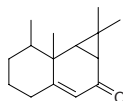
$C_{15}H_{26}O_2$ (238.37). White powder, $[\alpha]_D^{20} = -60.8^\circ$ ($c = 0.36$, $CHCl_3$). Pharm: Anti-HIV-1 inactive (*in vitro*, HOG.R5). Source: DIE DA LAO *Litsea verticillata* (leaf and twig; yield = 0.00012%dw). Ref: 4688.

**15967 1,2,2a,3,6,7,8,8a-Octahydro-7-hydroxy-2a,7,8-trimethylacena-phthalen-4(4H)-one**

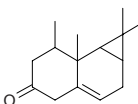
$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{25} = +27.1^\circ$ ($c = 0.02$, $CHCl_3$). Source: PA KE YE XIANG SHU *Cestrum parqui* (fresh leaf). Ref: 5327.

**15968 1,1a,4,5,6,7,7a,7β-Octahydro-1,1,7,7a-tetramethyl-2H-cyclopropa(α)-naphthalen-2-one**

$C_{15}H_{22}O$ (218.34). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

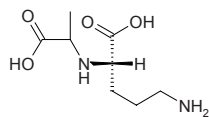
**15969 1,1a,2,4,6,7,7a,7β-Octahydro-1,1,7,7a-tetramethyl-5H-cyclopropa(α)-naphthalen-5-one**

$C_{15}H_{22}O$ (218.34). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

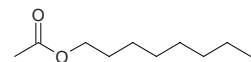


15986 Octopinic acid

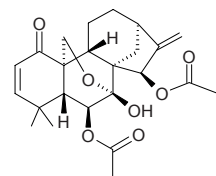
$C_8H_{16}N_2O_4$ (204.23). Source: DI JIN *Parthenocissus tricuspidata*. Ref: 6.

**15987 n-Octyl acetate**

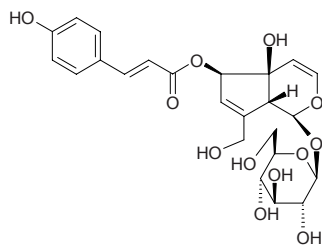
$C_{10}H_{20}O_2$ (172.27). Source: DA LIANG JIANG *Alpinia galanga*. Ref: 660.

**15988 Odonicin**

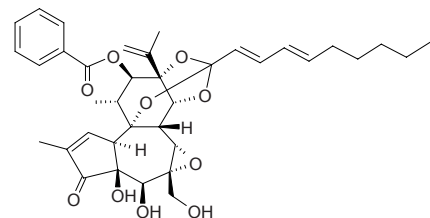
[51419-51-3] $C_{24}H_{30}O_7$ (430.50). Crystals (MeOH), mp 193–195°C, $[\alpha]_D^{26} = -193^\circ$ ($c = 0.1$, $CHCl_3$); mp 197–199°C, $[\alpha]_D^{29} = -195.9^\circ$ ($c = 0.15$, C_5H_5N). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*, MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 2819, 2820, 2821, 4067.

**15989 Odontoside**

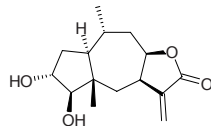
[30358-89-5] $C_{24}H_{28}O_{12}$ (508.48). Source: CHI YE CAO *Odonites serotina*. Ref: 6.

**15990 Odoracin**

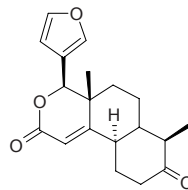
[60195-70-2] $C_{37}H_{44}O_{10}$ (648.76). mp 204–206°C, $[\alpha]_D^{32} = +61.7^\circ$ ($CHCl_3$). Pharm: Antineoplastic (leukemia). Source: CAO WU JIU *Stillingia sylvatica* [Syn. *Sapium sylvatica*], RUI XIANG GEN *Daphne odora*, YUAN HUA *Daphne genkwa*, KUAN YE GE NI DI MU *Gnidia latifolia*. Ref: 1521, 2862.

**15991 Odoratin I***

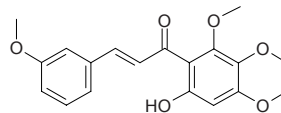
Hymenoratin [19908-77-1] $C_{15}H_{22}O_4$ (266.34). Thin acicular crystals (acetone), mp 165–167°C. Pharm: Cytotoxic (KB, $ED_{50} = 4\mu g/mL$). Source: BAI LAI SHI JU *Baileya multiradiata*, SHAO BIAN HUA BAI LAI SHI JU *Baileya pauciradiata*, XIANG MO ZHI JU *Hymenoxys odorata*. Ref: 5, 661.

**15992 Odoratin II***

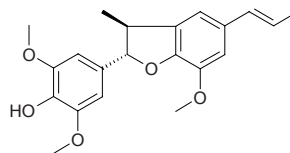
[10245-15-5] $C_{19}H_{22}O_4$ (314.38). Crystals (EtOAc), mp 216–223°C, $[\alpha]_D = +155^\circ$ ($c = 0.74$, $CHCl_3$). Source: YAN YANG CHUN *Cedrela odorata*. Ref: 2958.

**15993 Odoratin III***

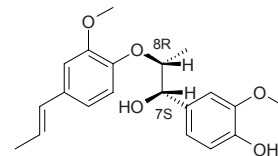
6'-Hydroxy-2',3',4,4'-tetramethoxychalcon [41929-26-4] $C_{19}H_{20}O_6$ (344.37). Source: KUN MING JI XUE TENG *Milletia dielsiana*, FEI JI CAO *Eupatorium odoratum*. Ref: 2896, 2897.

**15994 Odoratisol A**

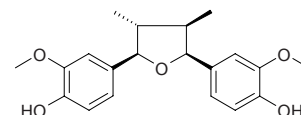
$C_{21}H_{24}O_5$ (356.42). Oil, $[\alpha]_D^{25} = -35.1^\circ$ ($c = 1.22$, $CHCl_3$). Source: JI XIANG RUN NAN *Machilus odoratissima* (bark: yield = 0.0004%dw). Ref: 2070.

**15995 Odoratisol B**

$C_{20}H_{24}O_5$ (344.41). Oil, $[\alpha]_D^{25} = +18.6^\circ$ ($c = 1.22$, $CHCl_3$). Source: JI XIANG RUN NAN *Machilus odoratissima* (bark: yield = 0.00035%dw). Ref: 2070.

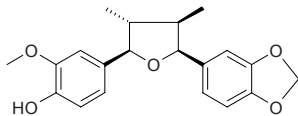
**15996 Odoratisol C**

$C_{20}H_{24}O_5$ (344.41). Oil, $[\alpha]_D^{25} = -26.0^\circ$ ($c = 2.79$, $CHCl_3$). Source: JI XIANG RUN NAN *Machilus odoratissima* (bark: yield = 0.0014%dw). Ref: 2070.

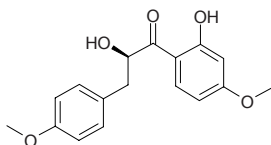


15997 Odoratisol D

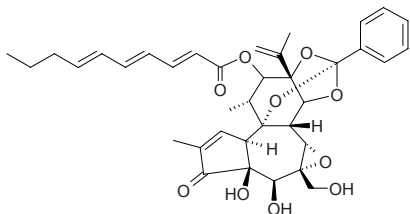
$C_{20}H_{22}O_5$ (342.40). Oil, $[\alpha]_D^{25} = -12.8^\circ$ ($c = 4.0$, $CHCl_3$). Source: JI XIANG RUN NAN *Machilus odoratissima* (bark: yield = 0.0020%dw). Ref: 2070.

**15998 Odoratosol**

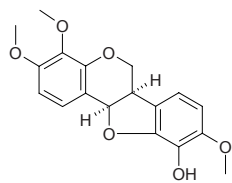
[94943-12-1] $C_{17}H_{18}O_5$ (302.33). Pharm: Antifungal. Source: AN GE LA ZI TAN *Pterocarpus angolensis*. Ref: 658.

**15999 Odoratratin**

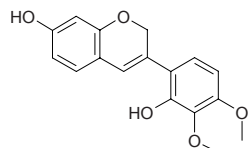
Gniditrin $C_{37}H_{42}O_{10}$ (646.74). Source: LIANG HUA GE NI DI MU *Gnidia lamprantha*, RUI XIANG GEN *Daphne odora*. Ref: 1521, 2862.

**16000 Odoricarpan**

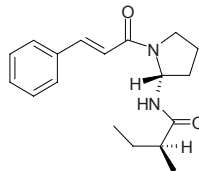
[101153-42-8] $C_{18}H_{18}O_6$ (330.34). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1266.

**16001 Odoriflavene**

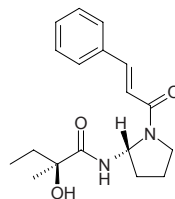
[101153-41-7] $C_{17}H_{16}O_5$ (300.31). Prisms (EtOAc-hexane), mp 177.5~179°C. Pharm: Prostaglandin synthetase inhibitor ($IC_{50} = 4.8\mu\text{mol/L}$). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 1266.

**16002 Odorine**

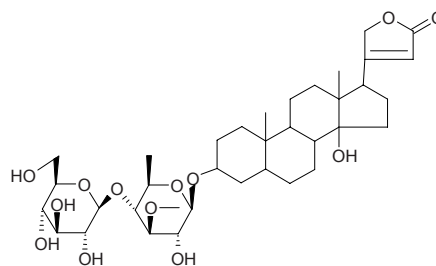
Roxburghiline; Roxburghilin [72755-20-5] $C_{18}H_{24}N_2O_2$ (300.40). Needles (benzene), mp 218~219°C, $[\alpha]_D^{25} = +72.6^\circ$ ($c = 0.03$, $CHCl_3$). Pharm: Promoter of cytotoxic effects of vincleucoblastine (inhibits vinblastine-resistant KB cells, odorine with 1 $\mu\text{g/mL}$ vinblastine, KB-V1 cell, $ED_{50} = 6.4\mu\text{g/mL}$). Source: LUO KE SI BAO MI ZI LAN *Aglaia roxburghiana*, MI ZI LAN *Aglaia odorata*, TUE YUAN MI ZI LAN *Aglaia elliptica* (leaf), YIN SE MI ZI LAN *Aglaia argentea*. Ref: 2814, 2815, 2816, 2817, 2818, 4127.

**16003 (+)-Odorinol**

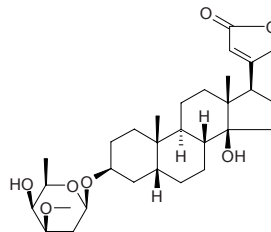
[72755-22-7] $C_{18}H_{24}N_2O_3$ (316.40). Needles (pet. ether-benzene), mp 166~168°C, $[\alpha]_D^{25} = +40.5^\circ$ ($c = 0.01$, $CHCl_3$). Pharm: Antiviral (inhibits markedly infection from RDV virus in young chicken embryo). Source: LUO KE SI BAO MI ZI LAN *Aglaia roxburghiana*, MI ZI LAN *Aglaia odorata*. Ref: 2814, 2952.

**16004 Odorobioside G**

[560-70-3] $C_{36}H_{56}O_{13}$ (696.84). Prisms (MeOH-Me₂CO-H₂O), mp 240~242°C, $[\alpha]_D^{18} = -8.1^\circ$ (MeOH). Source: MAO DI HUANG *Digitalis purpurea*, MAO HUA MAO DI HUANG *Digitalis lanata*. Ref: 1521.

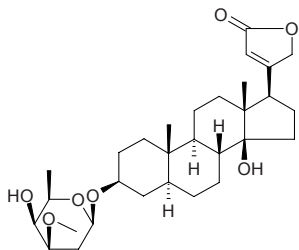
**16005 Odoroside A**

[12738-19-1] $C_{30}H_{46}O_7$ (518.70). mp 180~185°C, 200~206°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

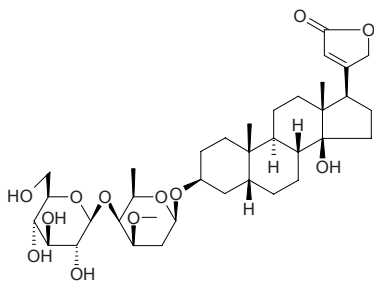


16006 Odoroid B

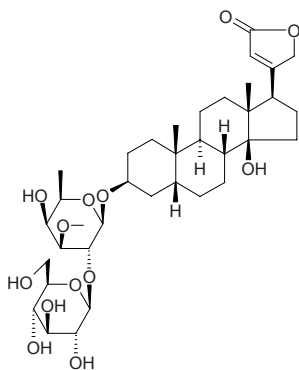
[58407-69-5] $C_{30}H_{46}O_7$ (518.70). mp 220°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**16007 Odoroid D**

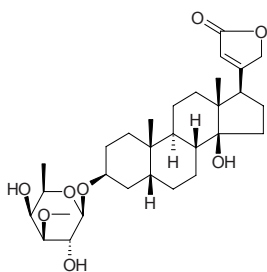
[In DNP] $C_{36}H_{56}O_{12}$ (680.84). mp 254–256°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**16008 Odoroid F**

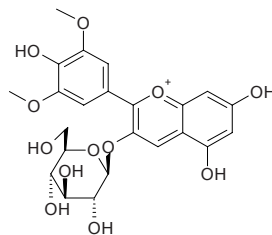
[In DNP] $C_{36}H_{56}O_{13}$ (696.84). mp 298–302°C (dec). Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**16009 Odoroid H**

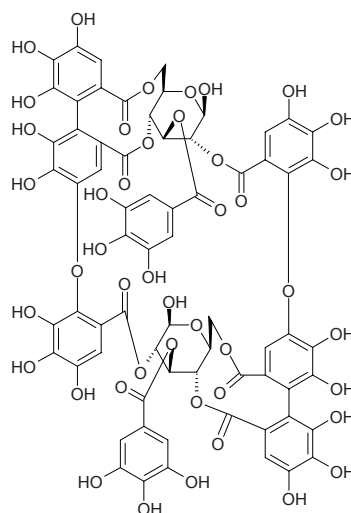
[18810-25-8] $C_{30}H_{46}O_8$ (534.70). mp 228–232°C. Pharm: CNS depressant (mus, ip, 25mg/kg). Source: JIA ZHU TAO *Nerium indicum*. Ref: 6, 1845.

**16010 Oenin**

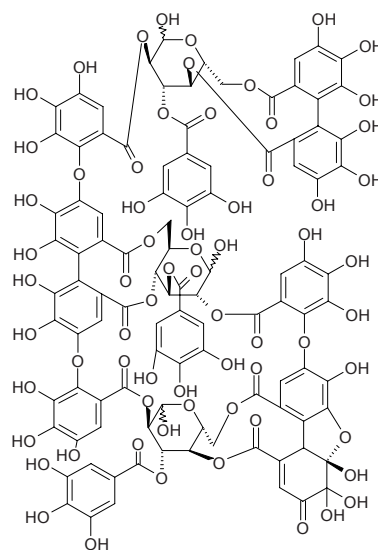
[7728-78-6] $C_{23}H_{25}O_{12}^+$ (493.45). Source: JIU Liquor, PU⁽²⁾ TAO *Vitis vinifera*. Ref: 6.

**16011 Oenothin B**

$C_{68}H_{48}O_{44}$ (1569.11). Pharm: ACE inhibitor (IC_{50} = 250 μ mol/L, control Lisinopril, IC_{50} = 1 nmol/L); NEP inhibitor (IC_{50} = 20 μ mol/L, control Phosphoramidon, IC_{50} = 9 nmol/L); APN inhibitor inactive. Source: HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*]. Ref: 5034.

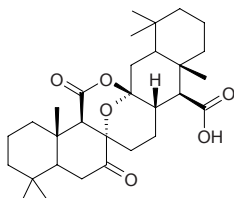
**16012 Oenotherin T₁**

$C_{102}H_{72}O_{67}$ (2369.67). Pale yellow powder, $[\alpha]_D = +130^\circ$ ($c = 0.4$, MeOH). Source: SI CHI YUE JIAN CAO *Oenothera tetraptera*. Ref: 1979.

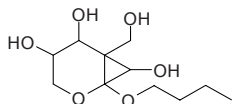


16013 Officinalic acid

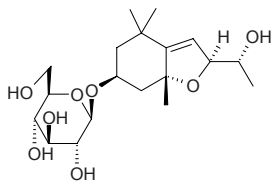
[23983-77-9] C₃₀H₄₄O₆ (500.68). Crystals, mp 272°C, [α]_D = -60° (*c* = 0.5, dioxane). Source: A LI HONG *Fomes officinalis*. Ref: 2962.

**16014 Officinalisin**

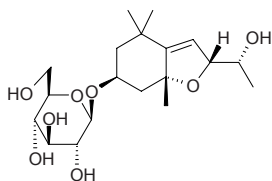
C₁₁H₂₀O₆ (248.28). Colorless acicular crystals, mp 149~151°C Source: BA JI TIAN *Morinda officinalis*. Ref: 810.

**16015 Officinoside A**

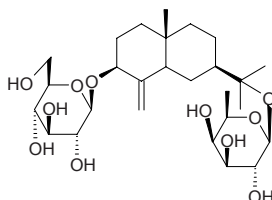
(3*S*,5*R*,8*S*,9*R*)-5,8-Epoxy-6-megastigmen-3,9-diol 3-*O*- β -*D*-glucopyranoside C₁₉H₃₂O₈ (388.46). White powder, [α]_D²² = +13.0° (*c* = 0.6, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 4107.

**16016 Officinoside B**

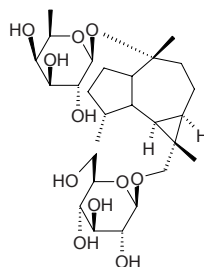
(3*S*,5*R*,8*R*,9*R*)-5,8-Epoxy-6-megastigmen-3,9-diol 3-*O*- β -*D*-glucopyranoside C₁₉H₃₂O₈ (388.46). White powder, [α]_D²⁶ = +1.2° (*c* = 0.5, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 4107.

**16017 Officinoside C**

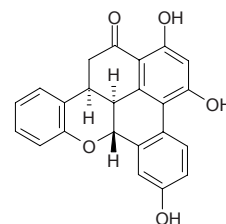
12-*O*- β -*D*-Fucopyranosyl selin-4(15)-en-3 β ,11-diol 3-*O*- β -*D*-glucopyranoside C₂₇H₄₆O₁₁ (546.66). White powder, [α]_D²⁷ = -7.0° (*c* = 0.7, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 4107.

**16018 Officinoside D**

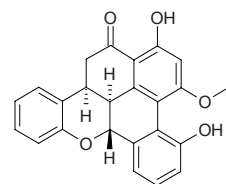
12-*O*- β -*D*-Fucopyranosyl flourensadiol 10-*O*- β -*D*-glucopyranoside C₂₇H₄₆O₁₁ (546.66). White powder, [α]_D²⁶ = -14.5° (*c* = 0.3, MeOH). Source: JIN ZHAN JU *Calendula officinalis* (flower). Ref: 4107.

**16019 Ohioensin A**

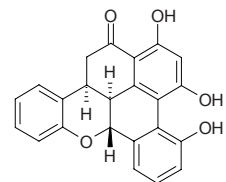
C₂₃H₁₆O₅ (372.38). Pharm: Antineoplastic; cytotoxic. Source: DUO XING JIN FA XIAN *Polytrichum ohioense*. Ref: 658.

**16020 Ohioensin B**

[145399-60-6] C₂₄H₁₈O₅ (386.41). Yellow needles, mp 246~247°C (dec), [α]_D²⁷ = -47° (*c* = 0.1, CHCl₃). Pharm: Cytotoxic (KB ED₅₀ = 9.7 μ g/mL, MCF7 ED₅₀ = 3.4 μ g/mL, HT29 ED₅₀ = 4.3 μ g/mL). Source: DUO XING JIN FA XIAN *Polytrichum ohioense*. Ref: 2835.

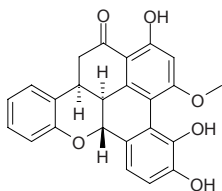
**16021 Ohioensin C**

[145399-61-7] C₂₃H₁₆O₅ (372.38). Yellow crystals, mp 230~231°C (dec), [α]_D²⁷ = -18° (*c* = 0.1, MeOH). Pharm: Cytotoxic (9PS ED₅₀ = 1.0 μ g/mL, A549 ED₅₀ = 8.7 μ g/mL, MCF7 ED₅₀ = 6.7 μ g/mL). Source: DUO XING JIN FA XIAN *Polytrichum ohioense*. Ref: 2835.

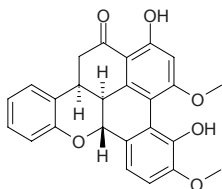


16022 Ohioensin D

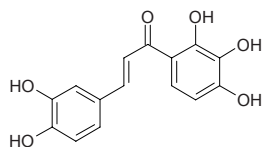
[145399-62-8] $C_{24}H_{18}O_6$ (402.41). Yellowish crystals (MeOH), mp 244~245°C (dec), $[\alpha]_D^{27} = -59^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Cytotoxic (9PS $ED_{50} = 1.0\mu g/mL$). Source: DUO XING JIN FA XIAN *Polytrichum ohioense*. Ref: 2835.

**16023 Ohioensin E**

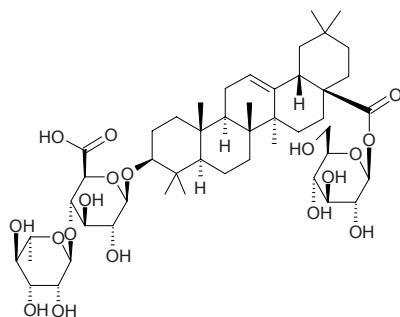
[145399-63-9] $C_{25}H_{20}O_6$ (416.43). Yellowish needles (MeOH), mp 226~228°C (dec), $[\alpha]_D^{27} = -42^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Cytotoxic (9PS $ED_{50} = 1.6\mu g/mL$, A549 $ED_{50} = 6.2\mu g/mL$). Source: DUO XING JIN FA XIAN *Polytrichum ohioense*. Ref: 2835.

**16024 Okanin**

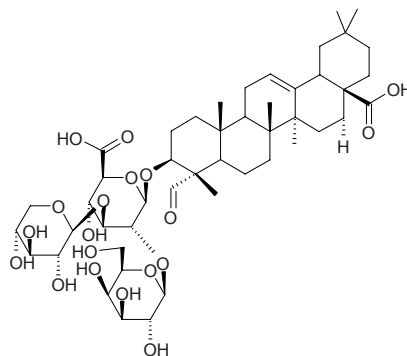
[484-76-4] $C_{15}H_{12}O_6$ (288.26). Pharm: Uncoupling action (*Solanum tuberosum*, oxidative phosphorylation in cytoblast). Source: *Bidens* sp., *Coreopsis* sp. Ref: 658.

**16025 Olaxoside**

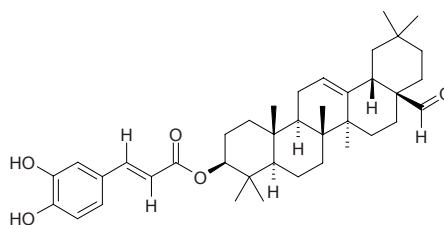
Saponin C $C_{48}H_{76}O_{18}$ (941.13). Pharm: Anti-inflammatory. Source: *Olax* sp. Ref: 658.

**16026 Oldhamianoside**

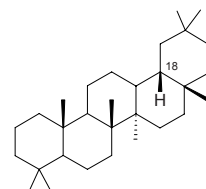
3-O-β-D-Xylopyranosyl-(1→3)-[β-D-galactopyranosyl-(1→2)]-β-D-glucopyranosyl gypsogenin $C_{47}H_{72}O_{19}$ (941.09). Yellowish powder (C_2H_5OH with H_2O). Source: XIA CAO *Gypsophila oldhamiana* (root). Ref: 4803.

**16027 Olean-28-al-3β-yl-caffeate**

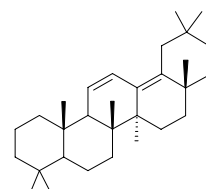
$C_{39}H_{54}O_5$ (602.86). Brown amorphous powder, $[\alpha]_D^{25} = +25^\circ$ ($c = 1.0$, MeOH). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], *Celastrus stephanotifolius*. Ref: 2310, 2511.

**16028 18α-Oleanane**

[30759-92-3] $C_{30}H_{53}$ (412.75). Crystals (EtOH-hexane), mp 210°C, $[\alpha]_D^{20} = +40.3^\circ$ ($c = 0.5$, $CHCl_3$). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*. Ref: 1521, 2915.

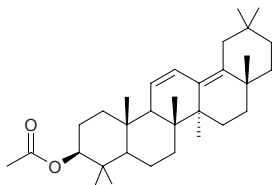
**16029 Olean-11,13(18)-diene**

$C_{30}H_{48}$ (408.72). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

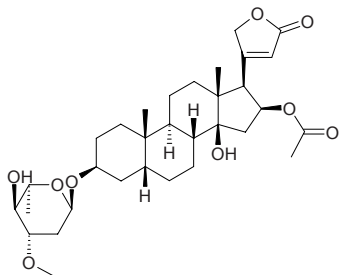


16030 Olean-11,13(18)-diene-3 β -yl acetate

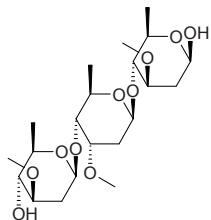
$C_{32}H_{50}O_2$ (466.75). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

**16031 Oleandrin**

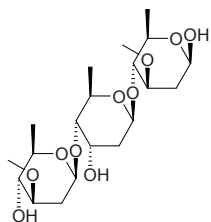
[465-16-7] $C_{32}H_{48}O_9$ (576.73). mp 250°C (dec). Pharm: Cardiotonic (frog heart, MED = 0.02mg/kg, pigeon heart, MED = 0.368mg/kg, cat heart, MED = 0.27mg/kg); diuretic; anti-inflammatory (NF- κ B pathway)^[4415]; LD (mus) = 2.5mg/kg; LD₅₀ (rat, iv) = 0.3mg/kg. Source: OU ZHOU JIA ZHU TAO *Nerium oleander*, QING MING HUA *Beaumontia grandiflora*. Ref: 6, 658, 4415.

**16032 O- β -D-Oleandropyranosyl-(1 \rightarrow 4)-O- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranose**

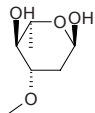
Royleose [205488-06-8] $C_{21}H_{38}O_{10}$ (450.53). $[\alpha]_D = +12^\circ$ ($c = 0.34$, $CHCl_3$). Source: ROU LEI NIU NAI CAI *Marsdenia roylei*. Ref: 2372.

**16033 O- β -D-Oleandropyranosyl-(1 \rightarrow 4)-O- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranose**

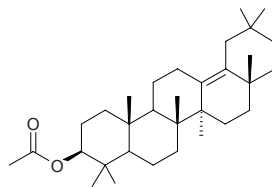
$C_{20}H_{36}O_{10}$ (436.50). Source: ROU LEI NIU NAI CAI *Marsdenia roylei*. Ref: 2372.

**16034 Oleandrose**

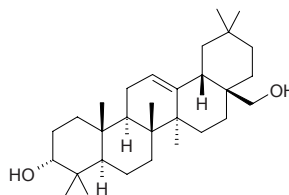
$C_7H_{14}O_4$ (162.19). mp 68~70°C. Source: FU SHOU CAO *Adonis amurensis*, LUO MO ZI *Metaplexis japonica*. Ref: 6.

**16035 Olean-13(18)-en-3-acetate**

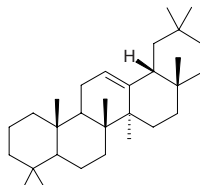
$C_{32}H_{52}O_2$ (468.77). Source: DA HUA XUAN FU HUA CAO *Inula britannica*. Ref: 1388.

**16036 Olean-12-en-3 β ,28-diol**

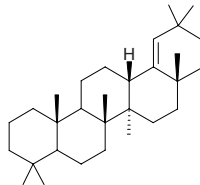
$C_{30}H_{50}O_2$ (442.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**16037 Olean-12-ene**

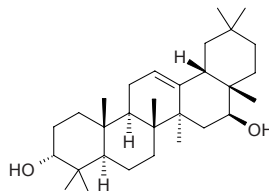
[471-68-1] $C_{30}H_{50}$ (410.73). Crystals ($CHCl_3$ -MeOH), mp 162~164°C, $[\alpha]_D = +97.1^\circ$ ($CHCl_3$). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

**16038 Olean-18-ene**

[432-11-1] $C_{30}H_{50}$ (410.73). Crystals (Me_2CO), mp 174~175°C, $[\alpha]_D = +6.2^\circ$ ($CHCl_3$). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

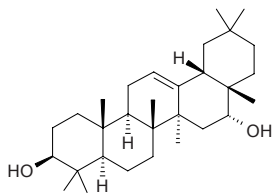
**16039 Olean-12-ene-3 α ,16 β -diol**

[122564-89-0] $C_{30}H_{50}O_2$ (442.73). mp 290~292°C, $[\alpha]_D^{23} = +51^\circ$ ($c = 1.0$, chloroform). Pharm: Antihepatotoxin (liver damage caused by *D*-galactosamine). Source: QING GUO *Canarium album*. Ref: 1147.

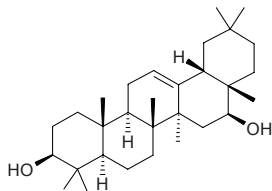


16040 Olean-12-ene-3 β ,16 α -diol

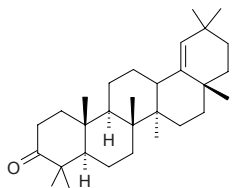
$C_{30}H_{50}O_2$ (442.73). Source: *Malina elemi*. Ref: 1521.

**16041 Olean-12-ene-3 β ,16 β -diol**

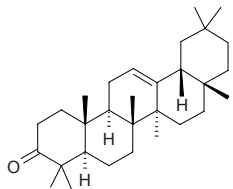
Maniladiol $C_{30}H_{50}O_2$ (442.73). Source: JIN ZHAN JU *Calendula officinalis*, *Malina elemi*, *Baccharis* spp. Ref: 2272.

**16042 Olean-12-en-3-one**

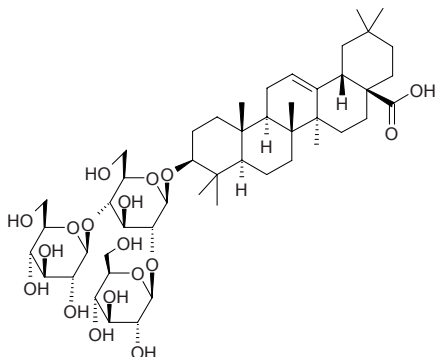
$C_{30}H_{48}O$ (424.72). Source: ZHU ZONG CAO *Adiantum capillus-veneris* (fresh frond). Ref: 4230.

**16043 Olean-18-en-3-one**

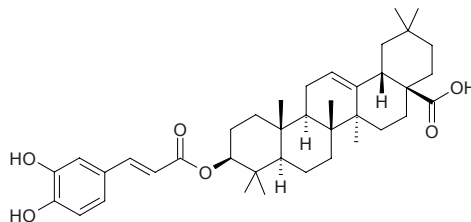
$C_{30}H_{48}O$ (424.72). Source: ZHU ZONG CAO *Adiantum capillus-veneris* (fresh frond). Ref: 4230.

**16044 Oleanoglycotoxin A**

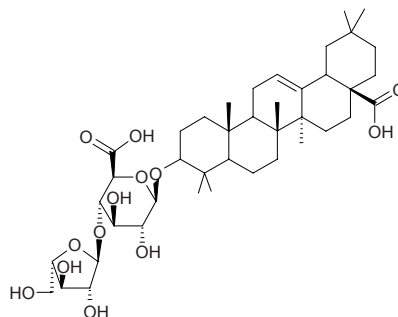
$C_{48}H_{78}O_{18}$ (943.15). Pharm: Spermaticidal (hmn sperm, 50mg/L); molluscicide (*Biomphalaria glabrata*, $LD_{100} = 6\text{mg/L}$). Source: SHI ER RUI SHANG LU *Phytolacca dodecandra*. Ref: 658.

**16045 Olean-28-oi-3 β -yl caffeate**

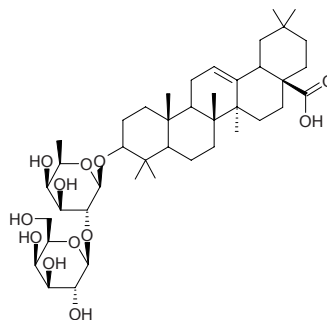
$C_{39}H_{54}O_6$ (618.86). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2511.

**16046 Oleanolic acid-3- α -L-arabinofuranosyl(1 \rightarrow 4)- β -D-glucuronopyranoside**

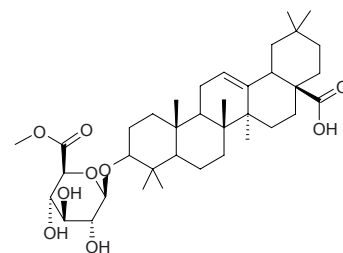
$C_{41}H_{64}O_{13}$ (764.96). Source: TONG HUA GEN *Tetrapanax papyriferus*. Ref: 2916.

**16047 Oleanolic acid-3- β -D-galactopyranosyl(1 \rightarrow 2)- β -D-fucopyranoside**

$C_{42}H_{68}O_{12}$ (765.00). Source: TONG HUA GEN *Tetrapanax papyriferus*. Ref: 2916.

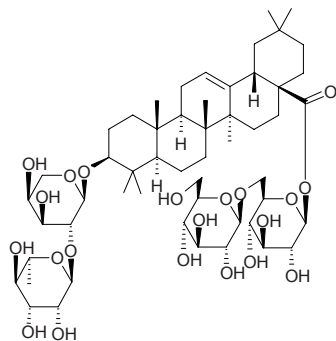
**16048 Oleanolic acid-3-O- β -D-(6'-O-methyl)-glucuronoside**

$C_{37}H_{58}O_9$ (646.87). Source: QIN LING ZHU ZI SHEN *Panax japonicus* var. *major*. Ref: 2948.



16049 Oleanolic acid 3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl- 28-O- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside

C₅₃H₈₆O₂₁ (1059.26). Source: LIAO DONG CONG MU YE *Aralia elata*, REN DONG TENG *Lonicera japonica*. Ref: 2791, 2863.

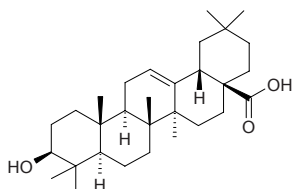


16050 Oleanolic acid

3-Hydroxy-12-oleanen-28-oic acid [508-02-1] C₃₀H₄₈O₅ (456.72). White acicular crystals (ethanol), mp 306~310°C; white needles (MeOH), mp 306~308°C, [α]_D²⁰ = +75.2° (*c* = 1.0, pyridine). Pharm: Cytotoxic (A2780, IC₅₀ = (20.4±0.4)μg/mL; control Actinomycin D, IC₅₀ = 2~5ng/mL)^[53971]; cytotoxic (K562, ED₅₀ > 20μmol/L, control Adriamycin, ED₅₀ = (0.09±0.03)μmol/L; B16(F-10), ED₅₀ > 20μmol/L, Adriamycin, ED₅₀ = (0.06±0.10)μmol/L; SK-MEL-2, ED₅₀ > 20μmol/L, Adriamycin, ED₅₀ = (0.09±0.30)μmol/L; PC3, ED₅₀ = (15±2)μmol/L, Adriamycin, ED₅₀ = (0.83±0.18)μmol/L; LOX-IMVI, ED₅₀ > 20μmol/L, Adriamycin, ED₅₀ = (0.38±0.33)μmol/L; A549, ED₅₀ > 20μmol/L, Adriamycin, ED₅₀ = (0.67±0.21)μmol/L)^[54791]; antineoplastic (S₁₈₀); anti-inflammatory (rat, swollen foot model caused by carrageenan, experimental chronic arthritis); cardiotoxic; diuretic; hypoglycemic; alanine aminopherase inhibitor (serum); reduces blood capillary permeability (mus); promotes hepatic cell recondition and regeneration (animal liver injury model); antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2μmol/L, control Gentian violet, MLC = 6.2μmol/L)^[25791]; antioxidant (superoxide anion scavenger, fMLP/CB or PMA-stimulated hmn Neutrophils); tissue factor inhibitor inactive^[53871]; antitubercular (*Mycobacterium tuberculosis*, MIC = 28.7μg/mL, cytotoxic, Vero cells, IC₅₀ = 82.9μg/mL, SI (IC₅₀/MIC) = 2.89, positive control Rifampin, MIC = 0.03μg/mL, IC₅₀ = 98.3μg/mL, SI = 3277)^[49861]; platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ > 1000μmol/L, control ASA, IC₅₀ = (420±3)μmol/L; 1~4μmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (45.3±5.1)μmol/L, ASA, IC₅₀ = (53.0±4.5)μmol/L; 10~40μmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (66.0±2.1)μmol/L; 1~5μmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (340±12)μmol/L)^[49941]; cytotoxic (HL-60, IC₅₀ > 100μmol/L, control Taxol, IC₅₀ = (4.1×10⁻⁴±1.1×10⁻⁴)μmol/L; MCF7, IC₅₀ > 100μmol/L, Taxol, IC₅₀ = (15.3±2.6)μmol/L; Bel7402, IC₅₀ > 100μmol/L, Taxol, IC₅₀ = (0.3±0.1)μmol/L; BGC823, IC₅₀ = (30.7±1.8)μmol/L; HeLa, IC₅₀ > 100μmol/L, Taxol, IC₅₀ = (33.0±6.1)μmol/L; KB, > 100μmol/L, Taxol, IC₅₀ > 100μmol/L)^[50151]; apoptosis inducer (HL-60 cells, 15μmol/L, sub-G1 population = (8.7±4.7)%, control sub-G1 population = (5.6±0.2)%, positive control Taxol, sub-G1 population = (40.5±0.2)%)^[50151]; COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 295μmol/L)^[44151]; TGF- β 1 antagonist (inhibits the binding of ¹²⁵I-TGF- β 1 to its receptor in Balb/c 3T3

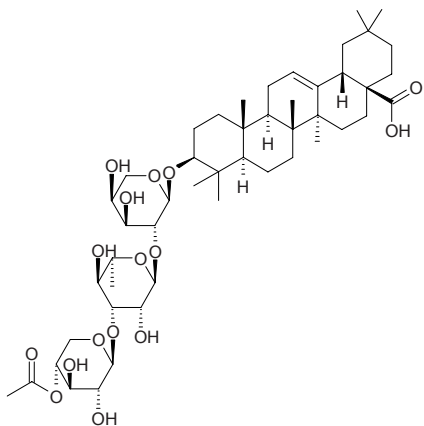
cell, IC₅₀ = (21.0±2.3)μmol/L, suggests TGF- β 1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[54961]; antiplasmodial (moderate *in vitro*, causes transformation of erythrocytes into stomatocytes)^[54471]; cytotoxic (leukemia cells L₁₂₁₀, IC₅₀ = 40μg/mL)^[37861]; antimalarial (*Plasmodium falciparum* FcB1, IC₅₀ = (9.8±3.1)μg/mL, control Chloroquine, IC₅₀ = (0.05±0.002)μg/mL)^[44191]; low toxin. Source: BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 9 batch samples = 1.68%)^[55081], BIAN ZHI HU JI SHENG *Viscum articulatum*, BING PIAN *Dryobalanops aromatica*, CHE QIAN *Plantago asiatica* (whole herb: mean content = 0.227%)^[55081], CHUAN XI ZHANG YA CAI *Swertia musotii*, CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], CONG MU *Aralia chinensis* (root: content = 3.31%)^[55081], DA CHE QIAN *Astrantia major*, DA XING QIN *Plantago major*, DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.021%)^[55081], DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.466%)^[55081]; leaf: mean content = 0.613%)^[55081], DUAN TING SHAN MAI DONG *Liriope muscari* (tuber)^[47721], FENG XIANG JI SHENG *Viscum articulatum*, GUAN MU TONG *Aristolochia manshuriensis*, HEI REN DONG *Lonicera nigra*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HU JI SHENG *Viscum coloratum* (stem-leaf: content = 1.49%)^[55081], HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, HUANG QI II *Engelhardia roxburghiana* (root), HUO XIANG *Agastache rugosus*, JI SHI TENG GUO *Paederia scandens*, LIAN QIAO *Forsythia suspensa* (2.28%), LIAO DONG CONG MU *Aralia elata* (root: content = 4.98%, root cortex: content = 5.59%, stem cortex: content = 3.69%)^[55081], MAI DONG *Ophiopogon japonicus* (tuber: yield = 0.00016%)^[47721], MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00016%dw), MAO XU CAO *Clerodendranthus spicatus*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], MU BIE ZI *Momordica cochinchinensis*, MU GUA *Chaenomeles sinensis*, MU TONG *Akebia quinata*, NIU XI *Achyranthes bidentata* (root: content scope = 0.186%~2.190%)^[55011], mean content = 1.23%)^[55081], NV ZHEN ZI *Ligustrum lucidum* (ripe fruit: content scope of 6 origins = 8.83%~15.16%; mean content = 10.79%), PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.204%)^[55081], QING YE DAN *Swertia mileensis*, QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*] (fruit: content scope of 3 origins = 0.46%~1.72%, mean content = 1.03%)^[55081], RI BEN LU TI CAO *Pyrola japonica*, SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], SHA ZAO *Elaeagnus angustifolia* (fruit: content = 0.014%)^[55081], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: mean content of 3 origins = 0.066%)^[55081], SHI DI *Diospyros kaki*, SHI NAN *Photinia serrulata* (leaf: mean content = 0.653%)^[55081], SHI YE *Diospyros kaki* (dried leaf: mean content = 0.430%)^[55081], SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.038%)^[55081], TIAN CAI *Beta vulgaris*, TU DANG GUI *Aralia cordata* (root: content = 0.42%)^[55081], WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.233%)^[55081], XIU QIU SHU WEI CAO *Salvia hydrangea* (flower), YI LANG QING LAN *Dracocephalum kotschyi*, YOU GAN LAN *Olea europaea*, YU ZHI ZI *Akebia quinata*, ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (fruit), ZI WEI *Campsis grandiflora* (dried flower: mean

content = 0.176%)^[5501, 5508], *Juliania adstringens* (bark)^[3786], *Nuxia sphaerocephala* (leaf)^[4419], occurs in many plants (very widely distributed aglycone). Ref: 4, 6, 439, 453, 455, 462, 471, 472, 592, 600, 622, 658, 660, 2579, 3005, 3786, 4415, 4418, 4419, 4772, 4986, 4994, 5015, 5059, 5387, 5397, 5447, 5479, 5496, 5501, 5508.



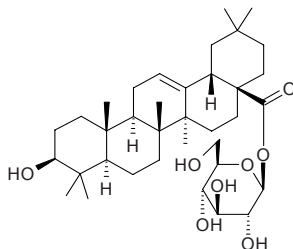
16051 Oleanolic acid 3-O-(4-O-acetyl-β-D-xylopyranosyl)-(1→3)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside

C₄₈H₇₆O₁₆ (909.13). White amorphous powder, [α]_D²² = -20.2° (c = 3.8, MeOH). Source: AO TOU WU HUAN ZI *Sapindus emarginatus* (pericarp). Ref: 4123.



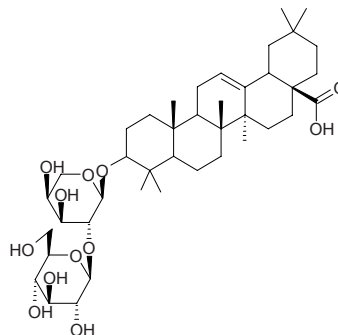
16052 Oleanolic acid-28-O-β-D-glucopyranoside

C₃₆H₅₈O₈ (618.86). White crystalline powder, mp 218–220°C, [α]_D²⁰ = +25.59° (c = 0.104, MeOH). Pharm: Molluscicide (kills genus *Oncomelania*). Source: KONG XIN XIAN *Alternanthera philoxeroides*, TAI BAI CONG MU *Aralia taibaiensis*. Ref: 470, 700.



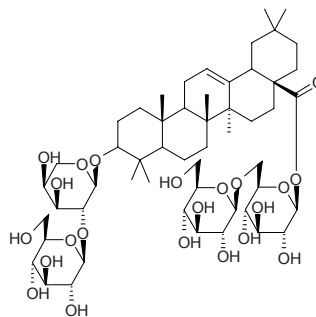
16053 Oleanolic acid-3-O-β-D-glucopyranosyl(1→2)-α-L-arabinopyranoside

C₄₁H₆₆O₁₂ (750.98). Source: HONG MAO WU JIA PI *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], REN DONG TENG *Lonicera japonica*. Ref: 2791, 2954.



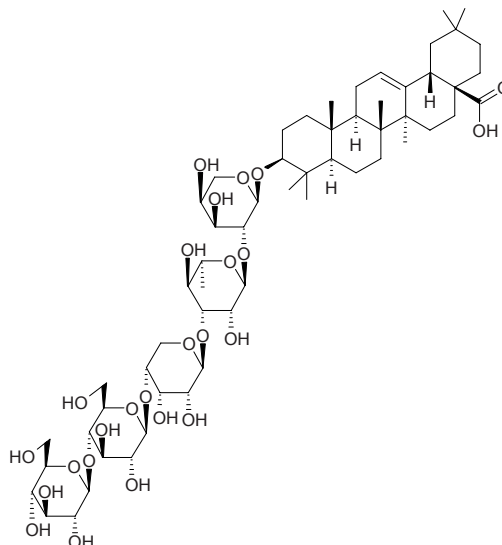
16054 Oleanolic acid-3-O-β-D-glucopyranosyl(1→2)-α-L-arabinopyranosyl-28-O-β-D-glucopyranosyl(1→6)-β-D-glucopyranoside

C₅₃H₈₆O₂₂ (1075.26). Source: REN DONG TENG *Lonicera japonica*. Ref: 2791.



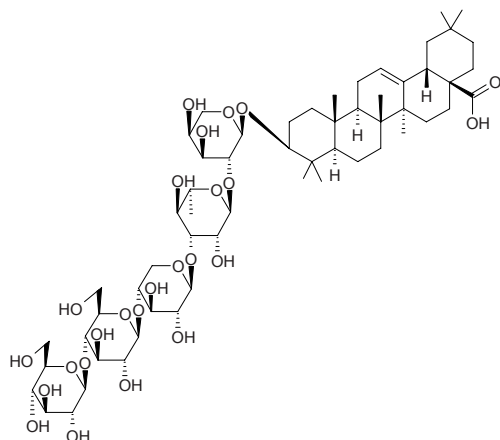
16055 Oleanolic acid-3-O-β-D-glucopyranosyl(1→4)-β-D-glucopyranosyl(1→4)-β-D-ribosepyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP₉ C₅₈H₉₄O₂₅ (1191.38). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



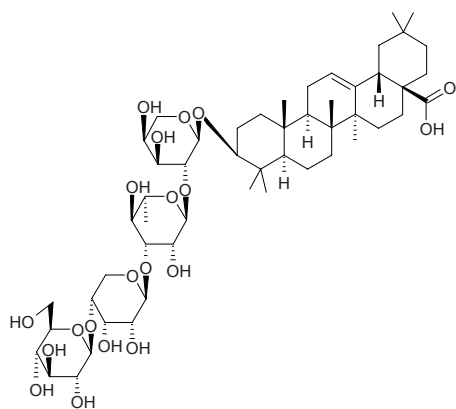
16056 Oleanolic acid-3-O-β-D-glucopyranosyl(1→4)-β-D-glucopyranosyl(1→4)-β-D-xylopyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP_{9a} C₅₈H₉₄O₂₅ (1191.38). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



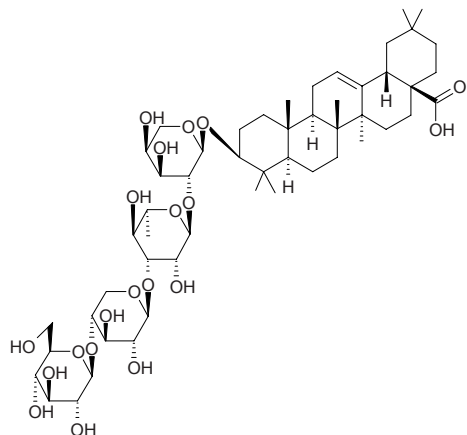
16057 Oleanolic acid 3-O-β-D-glucopyranosyl(1→4)-β-D-ribosepyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP₇ C₅₂H₈₄O₂₀ (1029.24). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



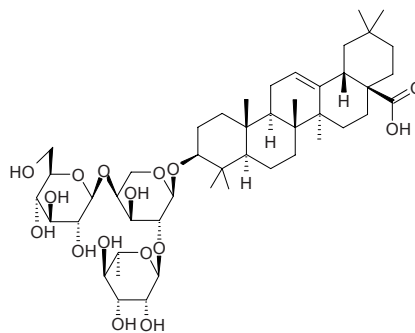
16058 Oleanolic acid-3-O-β-D-glucopyranosyl(1→4)-β-D-xylopyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP_{7a} C₅₂H₈₄O₂₀ (1029.24). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



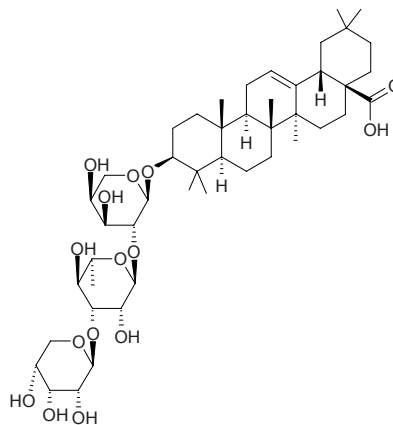
16059 Oleanolic acid-3-O-α-L-rhamnopyranosyl(1→2)-[β-D-glucopyranosyl(1→4)]-α-L-arabinopyranoside

C₄₇H₇₆O₁₆ (897.12). White needles (MeOH-H₂O), mp 253~255°C. Source: DUO BEI YIN LIAN HUA *Anemone raddeana*. Ref: 2240.



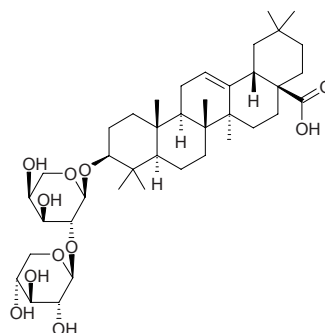
16060 Oleanolic acid 3-O-β-D-ribosepyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP₄ [75799-18-7] C₄₆H₇₄O₁₅ (867.09). Source: HU ZHANG CAO *Anemone rivularis*, WEI LING XIAN *Clematis chinensis*. Ref: 1521, 2854.



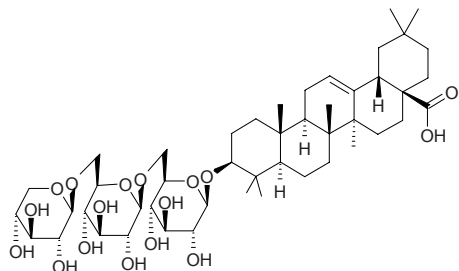
16061 Oleanolic acid 3-O-β-D-xylopyranosyl(1→2)-α-L-arabinopyranoside

Prosapogenin CP_{2b} C₄₀H₆₄O₁₁ (720.95). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



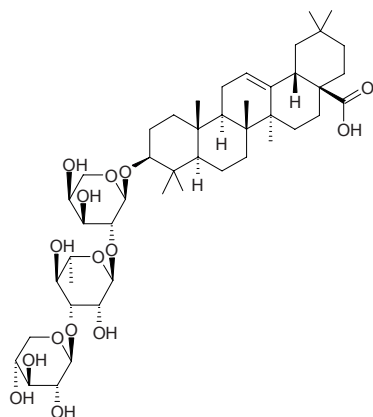
16062 Oleanolic acid 3-O- β -D-xylopyranosyl (1 \rightarrow 6)- β -D-glucopyranosyl (1 \rightarrow 6)- β -D-glucopyranoside

C₄₇H₇₆O₁₇ (913.12). Amorphous powder, mp 202~204°C, [α]_D²⁰ = -3.2° (c = 0.15, MeOH). Source: CHI GENG TENG *Gymnema sylvestre*. Ref: 766.



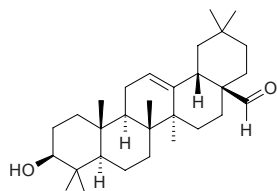
16063 Oleanolic acid 3-O- β -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl (1 \rightarrow 2)- α -L-arabinopyranoside

Prosapogenin CP₃ C₄₆H₇₄O₁₅ (867.09). Source: WEI LING XIAN *Clematis chinensis*. Ref: 2854.



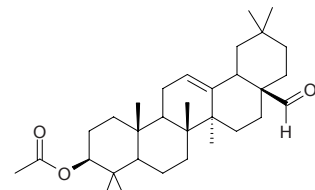
16064 Oleanolic aldehyde

C₃₀H₄₈O₂ (440.72). mp 230~231°C; 168~172°C. Source: MANG GUO SHU PI *Mangifera indica*. Ref: 6.



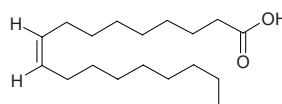
16065 Oleanolic aldehyde acetate

C₃₂H₅₀O₃ (482.75). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 1364.



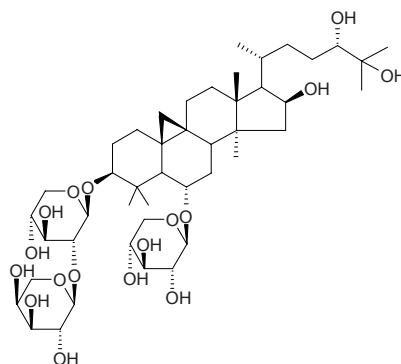
16066 Oleic acid

cis-Oleic acid [112-80-1] C₁₈H₃₄O₂ (282.47). mp 16°C, bp 285.5~286.0°C/100mmHg. Pharm: Increases absorption through skin; dermatitic (stimulant to skin); inhibits cancer cell invasion (MM1 cells, *in vitro*, 10 μ g/mL, InRt = 13.0%)^[4329]. Source: HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)] (seed: content scope = 21.6%~28.8%)^[5501], HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, JI GUAN ZI *Celosia cristata* (seed), LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: content = 35.2%)^[5508], MAN JING ZI *Vitex trifolia*, MAN TUO LUO ZI *Datura metel*, MAO MAN TUO LUO ZI *Datura innoxia*, QIANG HUO *Notopterygium incisum*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.082%dw)^[4655], YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 500, 658, 660, 4329, 4655, 5501, 5508.



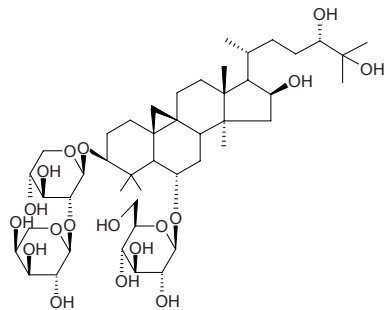
16067 Oleifolioside A

3-O-[β -Xylopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-6-O- β -xylopyranosyl-3 β ,6 α ,16 β ,24(S),25-pentahydroxycycloartane C₄₅H₇₆O₁₇ (889.10). Amorphous white powder, [α]_D²⁷ = +18.9° (c = 0.1, MeOH). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ > 90 μ g/mL, control Melarsoprol, IC₅₀ = 0.0032 μ g/mL; *Trypanosoma cruzi*, IC₅₀ > 30 μ g/mL, Benznidazole, IC₅₀ = 0.50 μ g/mL); antileishmanial (*Leishmania donovani*, IC₅₀ = 13.2 μ g/mL, control Miltefosine, IC₅₀ = 0.087 μ g/mL); antimalarial (*Plasmodium falciparum*, IC₅₀ > 5 μ g/mL, Chloroquine, IC₅₀ = 0.086 μ g/mL); cytotoxic (L6 cells, IC₅₀ > 90 μ g/mL, control Podophyllotoxin, IC₅₀ = 0.008 μ g/mL). Source: YOU YE HUANG QI *Astragalus oleifolius* (lower stem part). Ref: 5285.

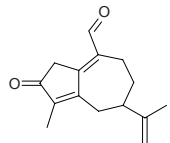


16068 Oleifolioside B

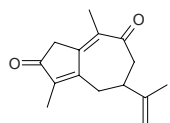
3-*O*-[β -Xylopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-6-*O*- β -glucopyranosyl-3 β ,6 α ,16 β ,24(*S*),25-pentahydroxycycloartane C₄₆H₇₈O₁₈ (919.12). Amorphous white powder, $[\alpha]_D^{27} = +21.9^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antitrypanosomal (*Trypanosoma brucei rhodesiense*, IC₅₀ > 90 μ g/mL, control Melarsoprol, IC₅₀ = 0.0032 μ g/mL; *Trypanosoma cruzi*, IC₅₀ > 30 μ g/mL, Benznidazole, IC₅₀ = 0.50 μ g/mL); antileishmanial (*Leishmania donovani*, IC₅₀ = 13.7 μ g/mL, control Miltefosine, IC₅₀ = 0.087 μ g/mL); antimalarial (*Plasmodium falciparum*, IC₅₀ > 5 μ g/mL, Chloroquine, IC₅₀ = 0.086 μ g/mL); cytotoxic (L6 cells, IC₅₀ > 90 μ g/mL, control Podophyllotoxin, IC₅₀ = 0.008 μ g/mL). **Source:** YOU YE HUANG QI *Astragalus oleifolius* (lower stem part). **Ref:** 5285.

**16069 Oleodaphnal**

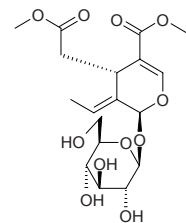
4,10,11-Guaiatriene-3-one-15-al; 3-Oxo-1(10),4,11-guaiatrien-14-al [260991-41-1] C₁₅H₁₈O₂ (230.31). Oil, $[\alpha]_D^{25} = +5.0^\circ$ ($c = 2.25$, CHCl₃). **Source:** YOU RUI XIANG *Daphne oleoides*. **Ref:** 2410.

**16070 Oleodaphnone**

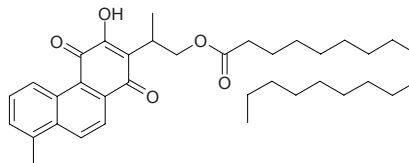
1(10),4,11-Guaiatrien-3,9-dione [260991-44-4] C₁₅H₁₈O₂ (230.31). Oil, $[\alpha]_D^{25} = +4.1^\circ$ ($c = 0.93$, CHCl₃). **Source:** YOU RUI XIANG *Daphne oleoides*. **Ref:** 2410.

**16071 Oleoside dimethyl ester**

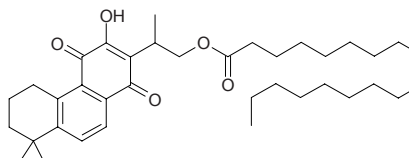
[30164-95-5] C₁₈H₂₆O₁₁ (418.40). **Pharm:** Antiviral (Hep2 cells, Para-3, IC₅₀ = 20.8 μ g/mL, TI = 6.0; MDCK cells, Flu-A, inactive; Vero cells, HSV-1, IC₅₀ = 83.3 μ g/mL)^[4141]; anti-hemolysis (rat, red blood cell *in vitro*, 2,2'-azo-bis-(2-amidinopropane)dihydrochloride induced, IC₅₀ = 65.0 μ mol/L, control Trolox, IC₅₀ = 55.0 μ mol/L)^[4141]; anti-hemolysis (against hemolysis of red blood cells induced by AAPH free radicals, weaker activity than trolox)^[3545]. **Source:** NV ZHEN ZI *Ligustrum lucidum*. **Ref:** 3545, 4141.

**16072 Oleoyl danshenxinkun A**

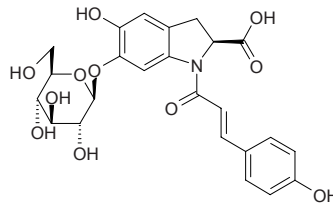
C₃₆H₄₈O₅ (560.78). Reddish oil, $[\alpha]_D^{25} = -78.88^\circ$ ($c = 0.25$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (*in vitro*, selectively inhibits rabbit platelet aggregation, induced by 100 μ mol/L arachidonic acid, IC₅₀ = (25.5 \pm 1.9) μ mol/L, control Aspirin, IC₅₀ = (27.0 \pm 1.1) μ mol/L; induced by 10 μ mol/L collagen, IC₅₀ = (60.5 \pm 2.6) μ mol/L; induced by 0.1U/mL thrombin, IC₅₀ > 100 μ mol/L). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 3056.

**16073 Oleoyl neocryptotanshinone**

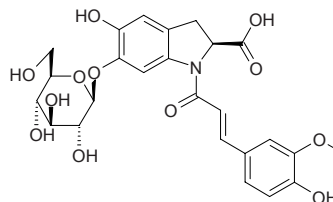
C₃₇H₅₄O₅ (578.84). Yellow oil (CHCl₃), $[\alpha]_D^{25} = +14.38^\circ$ ($c = 0.35$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (*in vitro*, selectively inhibits rabbit platelet aggregation, induced by 100 μ mol/L arachidonic acid, IC₅₀ = (5.1 \pm 0.8) μ mol/L, control Aspirin, IC₅₀ = (27.0 \pm 1.1) μ mol/L; induced by 10 μ mol/L collagen, IC₅₀ = (50.4 \pm 1.4) μ mol/L; induced by 0.1U/mL thrombin, IC₅₀ > 100 μ mol/L). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 3056.

**16074 Oleracein A**

5-Hydroxy-1-*p*-coumaric acyl-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside C₂₄H₂₅NO₁₁ (503.47). Yellow powder. **Source:** MA CHI XIAN *Portulaca oleracea*. **Ref:** 5325.

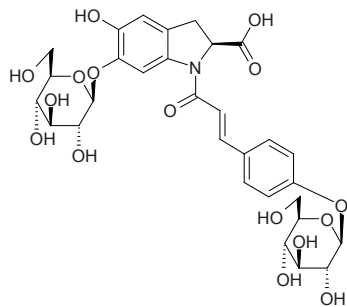
**16075 Oleracein B**

5-Hydroxy-1-ferulic acyl-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside C₂₅H₂₇NO₁₂ (533.49). Yellow powder. **Source:** MA CHI XIAN *Portulaca oleracea*. **Ref:** 5325.

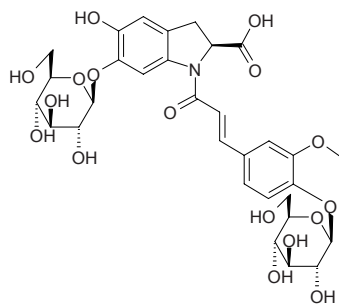


16076 Oleracein C

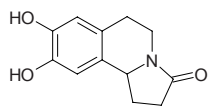
5-Hydroxy-1-(*p*-coumaric acyl-7'-*O*- β -*D*-glucopyranose)-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside C₃₀H₃₅NO₁₆ (665.61). Yellow powder, $[\alpha]_D^{26} = -83.70^\circ$ ($c = 0.35$, H₂O). Source: MA CHI XIAN *Portulaca oleracea*. Ref: 5325.

**16077 Oleracein D**

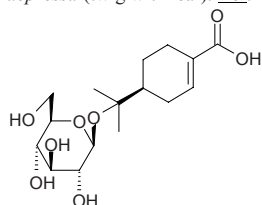
5-Hydroxy-1-(ferulic acyl-7'-*O*- β -*D*-glucopyranose)-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside C₃₁H₃₇NO₁₇ (695.64). Yellow powder, $[\alpha]_D^{26} = +263.85^\circ$ ($c = 0.15$, H₂O). Source: MA CHI XIAN *Portulaca oleracea*. Ref: 5325.

**16078 Oleracein E**

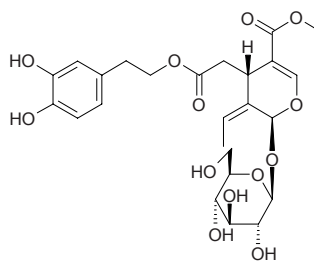
8,9-Dihydroxy-1,5,6,10*b*-tetrahydro-2*H*-pyrrolo[2,1-*a*]-isoquinolin-3-one C₁₂H₁₃NO₃ (219.24). Pale-white powder (MeOH), mp 238~240°C, $[\alpha]_D^{26} = +61.12^\circ$ ($c = 0.32$, MeOH). Source: MA CHI XIAN *Portulaca oleracea*. Ref: 5325.

**16079 (-)-Oleuropeic acid 8-*O*- β -*D*-glucopyranoside**

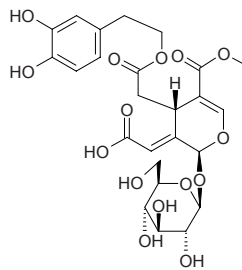
(4*S*)-4-(1- β -*D*-Glucopyranosyloxy-1-methyl)ethyl-1-cyclohexene-1-carboxylic acid C₁₆H₂₆O₈ (346.38). White powder, $[\alpha]_D = -36.3^\circ$ ($c = 0.54$, MeOH). Pharm: Antibacterial (*Helicobacter pylori* NCTC11637, MIC = 100 μ g/mL; NCTC11916, MIC = 100 μ g/mL; OCO1, MIC = 100 μ g/mL; control Hinokitilol (Nat. or Syn.), MIC = 100 μ g/mL, 100 μ g/mL, 50 μ g/mL, respectively). Source: OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). Ref: 4477.

**16080 Oleuropein**

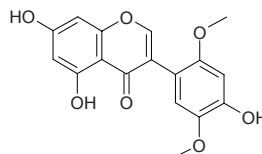
Oleuropein [32619-42-4] C₂₅H₃₂O₁₃ (540.53). Amorphous powder, mp 87~89°C, $[\alpha]_D^{22} = -128.4^\circ$ ($c = 0.61$, ethanol); crystals (EtOAc), mp 89~91°C, $[\alpha]_D^{26} = -168^\circ$ ($c = 0.67$, MeOH). artifact. Pharm: Antiarrhythmic; antibacterial (*Lactobacillus* spp.); antihypertensive (anesthetic cat with normal blood pressure, 30mg/kg, lowers blood pressure by 30%, induced hypertensive dog, 10mg/kg and 30mg/kg iv, lowers systolic pressure by 60%, lowers diastolic pressure by 70%); anti-inflammatory (100mg/kg, orl, mus swollen foot model caused by carrageenan, 3 hours later, InRt = 32.1%, edema in mus ears caused by TPA, 1mg/ear external use, InRt = 43.5%); anti-hemolysis (rat, red blood cell *in vitro*, 2,2'-azo-bis-(2-amidinopropane)dihydrochloride induced, IC₅₀ = 25.0 μ mol/L, control Trolox, IC₅₀ = 55.0 μ mol/L)^[4141]; antispasmodic (duodenum, jejunum, ileum); coronary vasodilator; antiviral (Hep2 cells, Para-3, IC₅₀ = 11.7 μ g/mL, TI = 48.0; MDCK cells, Flu-A, inactive; Vero cells, HSV-1, inactive; Hep2 cells, RSV, IC₅₀ = 23.4 μ g/mL, TI = 24.0)^[4141]; molluscicide (kills snails in 24 hours, LD₅₀ = 250mg/L); bitter principle (in olives); low toxin. Source: BAI LA SHU *Fraxinus chinensis*, NV ZHEN ZI *Ligustrum lucidum*, RI BEN BAI LA SHU *Fraxinus japonica*, RI BEN NV ZHEN *Ligustrum japonicum*, YOU GAN LAN *Olea europaea*. Ref: 4, 660, 1521, 900, 4141.

**16081 Oleuropeinic acid**

[96382-90-0] C₂₅H₃₀O₁₅ (570.51). Amorphous, $[\alpha]_D = -120.3^\circ$ (CHCl₃). Source: NV ZHEN ZI *Ligustrum lucidum*, RI BEN NV ZHEN *Ligustrum japonicum*. Ref: 2870, 2633.

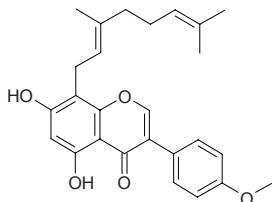
**16082 Olibergin A**

C₁₇H₁₄O₇ (330.30). Colorless oil. Pharm: EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, IC₅₀ = 462(mol ratio/32pmol TPA), control β -Carotene, IC₅₀ = 400(mol ratio/32pmol TPA)). Source: AO LI FO HUANG *Dalbergia oliveri* (stam bark). Ref: 3483.

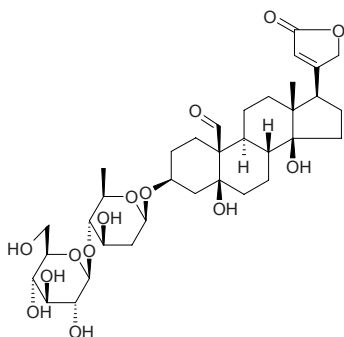


16083 Olibergin B

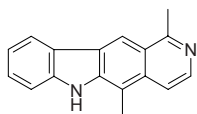
$C_{26}H_{28}O_5$ (420.51). Colorless oil. **Pharm:** EBV-EA activation inhibitor (Raji cells *in vitro*, TPA-induced, $IC_{50} = 281$ (mol ratio/32pmol TPA), control β -Carotene, $IC_{50} = 400$ (mol ratio/32pmol TPA)). **Source:** AO LI FO HUANG TAN *Dalbergia oliveri* (stam bark). **Ref:** 3483.

**16084 Olitoriside**

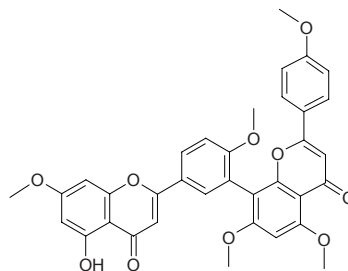
Olitorin [13289-20-8] $C_{35}H_{52}O_{14}$ (696.80). mp 204~206°C (dec). **Pharm:** Cardiotoxic (*in vivo*, pigeon method iv, LD = 2.66 μ g/kg, frog, rbt, dog and cat); inhibits gastric acid secretion (10~100 μ mol/L, *in vitro*); LD₅₀ (mus, iv) = 5.2mg/kg. **Source:** CHANG SHUO HUANG MA *Corchorus olitorius*, HUANG MA YE *Corchorus capsularis*, HUANG MA ZI *Corchorus capsularis*, MENG GU CE JIN ZHAN HUA *Adonis mongolica*. **Ref:** 4, 6, 658.

**16085 Olivacine**

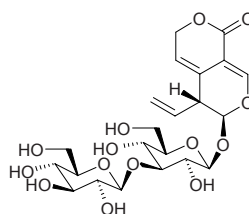
Guatambuine [484-49-1] $C_{17}H_{14}N_2$ (246.31). mp 317~325°C. **Pharm:** Antineoplastic (hmn tumor, strong; mus L₁₂₁₀, ip, 25mg/kg *quaque die* or 50mg/kg *alternis diebus*, biotic prolonged rate = 89%~229%); anthelmintic, inhibits biosynthesis of protein (epimastigotes of *Trypanosoma cruzi*); antirheumatic; antiulcerative. **Source:** BAI JIAN MU *Aspidosperma campus-belus*, HE LU BAI JIAN MU *Aspidosperma olivaceum*, HEI BAI JIAN MU *Aspidosperma nigricans*. **Ref:** 5, 658.

**16086 Oliveriflavone**

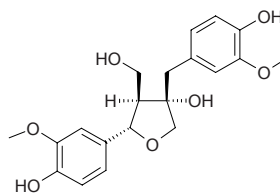
[107392-32-5] $C_{35}H_{28}O_{10}$ (608.61). **Source:** BI ZI CU FEI *Cephalotaxus oliveri*. **Ref:** 2945.

**16087 Olivioside**

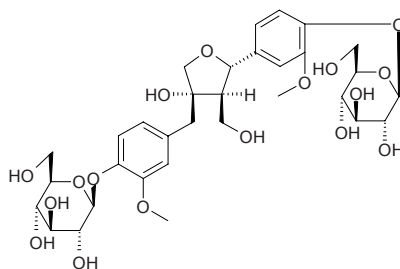
$C_{22}H_{30}O_{14}$ (518.48). **Source:** LONG DAN *Gentiana scabra* (dried rhizome and root). **Ref:** 3097.

**16088 (-)-Olivil**

[2955-23-9] $C_{20}H_{24}O_7$ (376.41). Crystals + 1H₂O (H₂O), mp 127°C, 105°C, 142~143°C (anhyd.), $[\alpha]_D^{20} = -127^\circ$. **Source:** DU ZHONG *Eucommia ulmoides*, FEI ZHOU GAN LAN *Olea africana*, JIAN YE YIN YANG HUO *Epimedium sagittatum*, YOU GAN LAN *Olea europaea*, *Abies tsaotana*. **Ref:** 2, 660, 1521.

**16089 (-)-Olivil-4',4''-di-O-β-D-glucopyranoside**

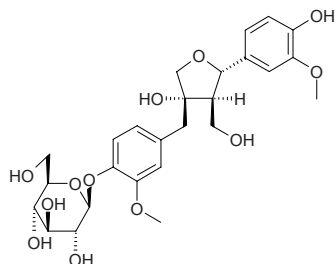
$C_{32}H_{44}O_{17}$ (700.70). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2, 2793.



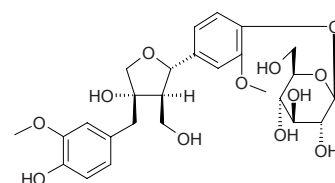
16090 (-)-Olivil-4''-O-β-D-glucopyranoside

C₂₆H₃₄O₁₂ (538.55). Amorphous powder, $[\alpha]_D^{26} = -61.3^\circ$ ($c = 0.37$, MeOH).

Source: DU ZHONG *Eucommia ulmoides*, LAN SHAI PIAO *Sambucus sieboldiana* (leaf). Ref: 2, 4192.

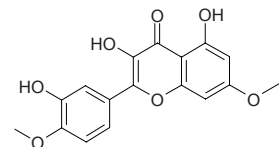
**16091 (-)-Olivil-4'-O-β-D-glucopyranoside**

C₂₆H₃₄O₁₂ (538.55). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

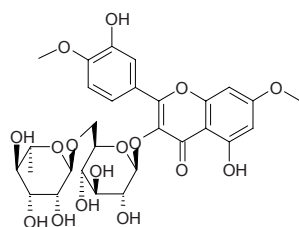
**16092 Ombuin**

3,5,3'-Trihydroxy-7,4'-dimethoxyflavone [529-40-8] C₁₇H₁₄O₇ (330.30).

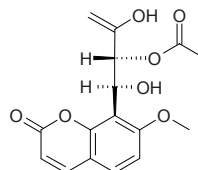
Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], JIAO GU LAN *Gynostemma pentaphyllum*. Ref: 2, 660.

**16093 Ombuoside**

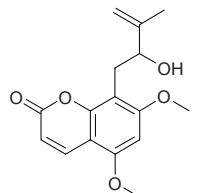
[20188-85-6] C₂₉H₃₄O₁₆ (638.58). Pale yellow crystals, mp 195~196°C, $[\alpha]_D = -43^\circ$ (pyridine). Source: A GEN TING SHANG LU *Phytolacca dioica*, JIAO GU LAN *Gynostemma pentaphyllum*, *Flyriella parryi*. Ref: 2944.

**16094 Omphalocarpinol**

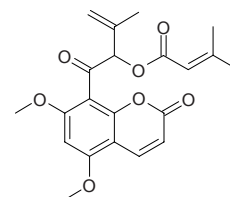
C₁₆H₁₆O₇ (320.30). Colorless prisms (CHCl₃), mp 153~154°C, $[\alpha]_D^{24} = -24.7^\circ$ ($c = 0.05$, MeOH). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100μg/mL: thrombin = 0.1U/mL, AggRt = (79.3±1.7)%, control, AggRt = (80.0±1.1)%; AA = 100μmol/L, AggRt = (58.0±3.6)%, $p < 0.001$, control, AggRt = (77.0±1.5)%; collagen = 10μg/mL, AggRt = (0±0)%, $p < 0.001$, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (79.7±2.4)%, control, AggRt = (82.5±1.5)%). Source: QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). Ref: 5417.

**16095 Omphamurin**

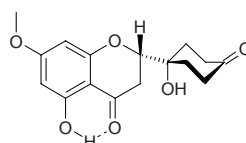
C₁₆H₁₈O₅ (290.32). $[\alpha]_D^{24} = +41.4^\circ$ ($c = 0.1$, MeOH). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, induced by thrombin, AA, collagen and PAF, 100μg/mL: thrombin = 0.1U/mL, AggRt = (84.7±1.4)%, $p < 0.05$, control, AggRt = (80.0±1.1)%; AA = 100μmol/L, AggRt = (0±0)%, $p < 0.001$, control, AggRt = (77.0±1.5)%; collagen = 10μg/mL, AggRt = (0±0)%, $p < 0.001$, control, AggRt = (78.3±1.3)%; PAF = 1ng/mL, AggRt = (57.3±7.8)%, $p < 0.01$, control, AggRt = (82.5±1.5)%). Source: QI GUO JIU LI XIANG *Murraya omphalocarpa* (leaf). Ref: 5417.

**16096 Omphamurrayin**

5,7-Dimethoxy-8-(1-oxo-2-senecioidyl-3-methyl-3-butenyl)-2H-1-benzopyran-2-one C₂₁H₂₂O₇ (386.41). $[\alpha]_D^{25} = -6.0^\circ$ ($c = 0.269$, MeOH). Source: QI GUO QIAN LI XIANG *Murraya paniculata* var. *omphalocarpa* (leaf). Ref: 4157.

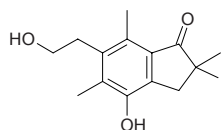
**16097 (2S)-Ongokein-4'-one**

(2S)-5-Hydroxy-2-(1'-hydroxy-4'-oxocyclohexyl)-7-methoxychroman-4-one C₁₆H₁₈O₆ (306.32). White crystals, mp 165~168°C, $[\alpha]_D = +36^\circ$ ($c = 0.13$). Source: EN GE MU *Ongokea gore* (stem cortex and root). Ref: 5308.

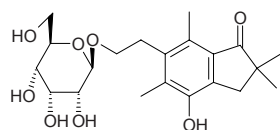


16098 Onitin

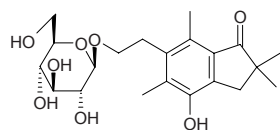
2,2,5,7-Tetramethyl-4-hydroxy-6-(2-hydroxyethyl)-indanone [53823-02-2] $C_{15}H_{20}O_3$ (248.32). Crystals (MeOH), mp 212–214°C. **Pharm:** Ileal smooth muscle relaxant (gpg, *in vitro*, contraction induced by 5-HT or histamine); 5-HT inhibitor (D and M receptor). **Source:** JIN FEN JUE *Onychium siliculosum*, JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*], JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*], WEN JING *Equisetum arvense*, *Onychium auratum*, *Dicksonia gigantean*. **Ref:** 660, 1521, 2932, 2930, 2933.

**16099 Onitin-2'-O-β-D-alloside**

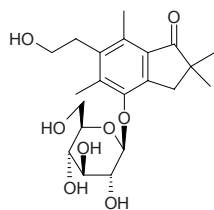
$C_{21}H_{30}O_8$ (410.47). **Source:** JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*]. **Ref:** 2932.

**16100 Onitin-2'-O-β-D-glucoside**

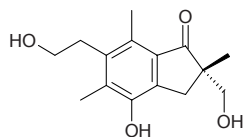
$C_{21}H_{30}O_8$ (410.47). **Source:** JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*]. **Ref:** 2932.

**16101 Onitinoside**

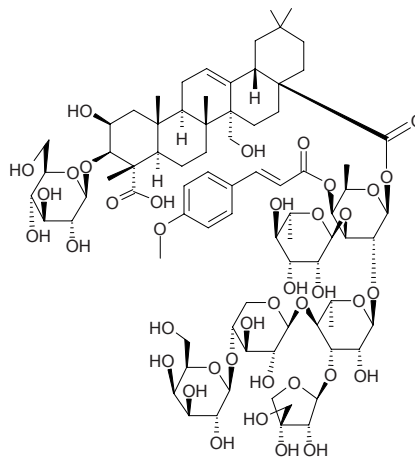
[78415-48-2] $C_{21}H_{30}O_8$ (410.47). Colorless crystals (EtOAc), mp 172–174°C. **Pharm:** Ileal smooth muscle relaxant (gpg, *in vitro*). **Source:** JIN FEN JUE *Onychium siliculosum*. **Ref:** 2937, 2930.

**16102 (S)-Onitisin**

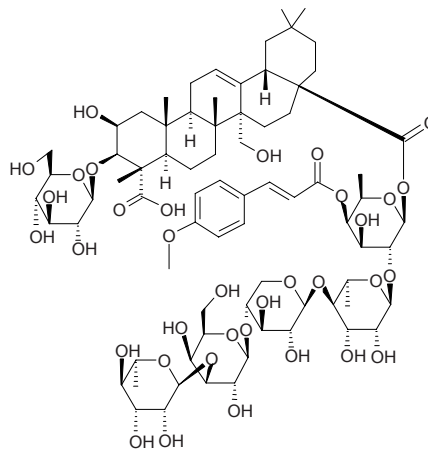
(S)-4-Hydroxypterosin A [53823-03-3] $C_{15}H_{20}O_4$ (264.32). Needles (MeOH), mp 184°C, $[\alpha]_D^{25} = -31.16^\circ$ ($c = 1$, MeOH). **Pharm:** Ileal smooth muscle relaxant (gpg, *in vitro*). **Source:** JIN FEN JUE *Onychium siliculosum*, WAN JUE *Dennstaedtia scabra* [Syn. *Dicksonia scabra*]. **Ref:** 1521, 2929, 2930, 2931.

**16103 Onjisaponin A**

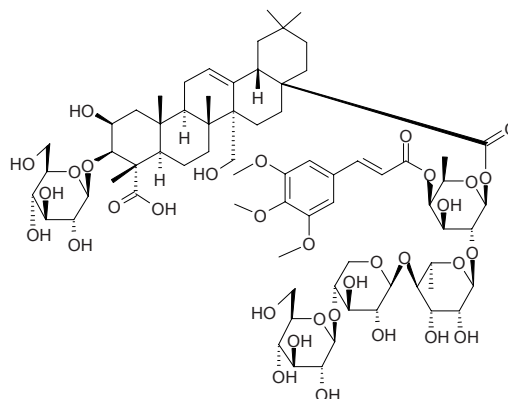
[82410-33-1] $C_{80}H_{120}O_{39}$ (1705.83). Powder (EtOH), mp 253–254°C (dec), $[\alpha]_D^{17} = -18.4^\circ$ ($c = 1.24$, MeOH). **Source:** YUAN ZHI *Polygala tenuifolia*. **Ref:** 2914.

**16104 Onjisaponin B**

[35906-36-6] $C_{75}H_{112}O_{35}$ (1573.71). Powder (EtOH aq.), mp 249–251°C (dec), $[\alpha]_D^{17} = -10.2^\circ$ ($c = 1.08$, MeOH). **Source:** MEI YUAN ZHI *Polygala senega*, YUAN ZHI *Polygala tenuifolia*. **Ref:** 2914.

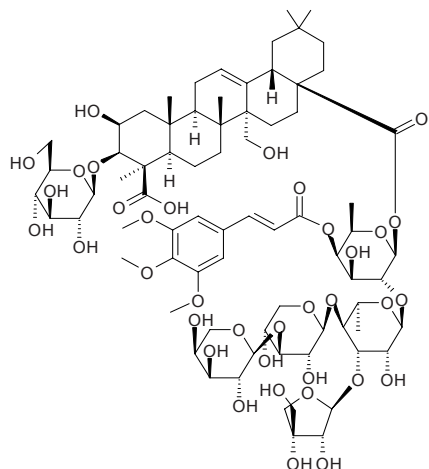
**16105 Onjisaponin E**

[82410-35-3] $C_{71}H_{106}O_{33}$ (1487.62). Needles + 4H₂O (EtOH aq.), mp 245–247°C (dec), $[\alpha]_D^{17} = -6.5^\circ$ ($c = 1$, MeOH). **Source:** YUAN ZHI *Polygala tenuifolia*. **Ref:** 2914.

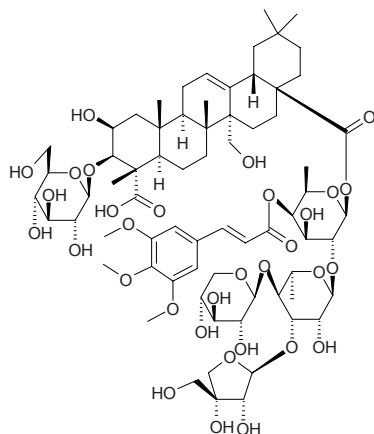


16106 Onjisaponin F

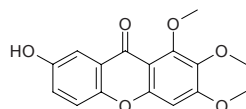
[79103-90-5] C₇₅H₁₁₂O₃₆ (1589.71). Source: LIAN QIAO *Forsythia suspensa*.
Ref: 1521.

**16107 Onjisaponin G**

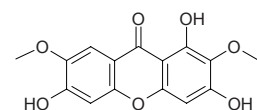
[In DNP] C₇₀H₁₀₄O₃₂ (1457.59). Source: LIAN QIAO *Forsythia suspensa*.
Ref: 1521.

**16108 Onjixanthone I**

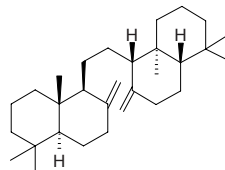
7-Hydroxy-1,2,3-trimethoxyxanthone C₁₆H₁₄O₆ (302.29). Source: HONG HUA *Carthamus tinctorius*, YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 1521, 4507.

**16109 Onjixanthone II**

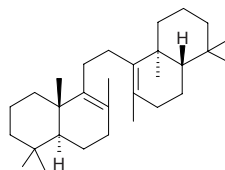
1,3,6-Trihydroxy-2,7-dimethoxyxanthone [136083-93-7] C₁₅H₁₂O₇ (304.26).
Source: CHAN YI TENG *Securidaca inappendiculata* (stem), HONG HUA *Carthamus tinctorius*, JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*] (root and stem: yield = 0.00041%)^[4683]. Ref: 2, 4683, 5238.

**16110 α-Onoceradiene**

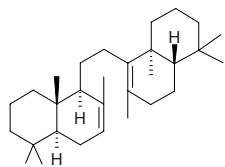
8(26),14(27)-Onoceradiene [6713-91-3] C₃₀H₅₀ (410.73). Crystals, mp 209–210°C, [α]_D = +22.4°. Source: KUAN YU XIAN JUE *Colysis pothifolia* [Syn. *Hemionitis pothifolia*], LUO YAN CAO *Lemmaphyllum microphyllum*, DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*.
Ref: 2836, 2837, 2838.

**16111 β-Onoceradiene**

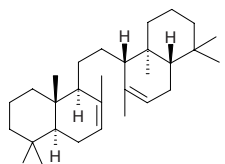
C₃₀H₅₀ (410.73). Source: LUO YAN CAO *Lemmaphyllum microphyllum*. Ref: 2838.

**16112 Onocera-7,13-diene**

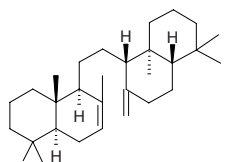
C₃₀H₅₀ (410.73). Source: LUO YAN CAO *Lemmaphyllum microphyllum*. Ref: 2838.

**16113 Onocera-7,14-diene**

C₃₀H₅₀ (410.73). Source: LUO YAN CAO *Lemmaphyllum microphyllum*. Ref: 2838.

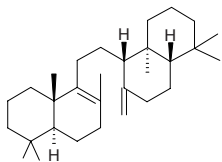
**16114 Onocera-7,14(27)-diene**

C₃₀H₅₀ (410.73). Source: LUO YAN CAO *Lemmaphyllum microphyllum*. Ref: 2838.

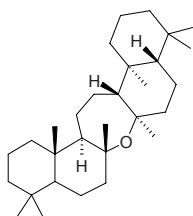


16115 Onocera-8,14(27)-diene

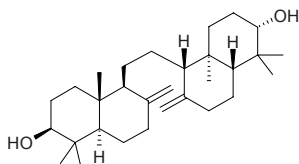
$C_{30}H_{50}$ (410.73). Source: LUO YAN CAO *Lemmaphyllum microphyllum*. Ref: 2838.

**16116 Onoceranoxide**

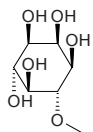
[83013-85-8] $C_{30}H_{52}O$ (428.75). Crystals, mp 226~227°C, $[\alpha]_D = +7.9^\circ$. Source: DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*, DUO ZU JUE *Polypodium vulgare*. Ref: 2837, 2839.

**16117 α -Onocerin**

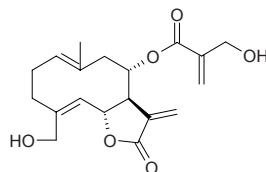
3 β -21 α -Dihydroxy-14-sekogrammasera-8(26),14(27)-diene [511-01-3] $C_{30}H_{50}O_2$ (442.73). mp 232°C; 202~203°C. Pharm: AChE inhibitor^[5380]. Source: CI MANG BING HUA *Ononis spinosa* (in 1962, the compound was isolated from the plant by Hiroyuki Ageta et al.)^[5505], PU DI WU GONG *Lycopodium cernuum*, SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], TENG SHI SONG *Lycopodium casuarinoides*, YU BAI SHI SONG *Lycopodium obscurum*, *Lycopodium sitchense*, *Lycopodium inundatum*. Ref: 6, 5380, 5505.

**16118 Ononitol**

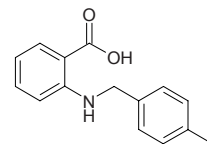
$C_7H_{14}O_6$ (194.19). mp 173°C. Source: MU XU *Medicago sativa*. Ref: 6.

**16119 Onopordopicrin**

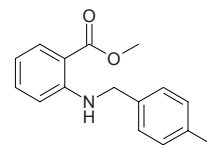
[19889-00-0] $C_{19}H_{24}O_6$ (348.40). Crystals (CHCl₃-Et₂O), mp 55~58°C, $[\alpha]_D^{25} = +16.2$ ($c = 0.5$ MeOH). Pharm: Cytotoxic (KB, ED₅₀ = 0.85 μ g/mL; culture tumor cells); insect antifeedant; antibacterial (*Staphylococcus aureus*). Source: A ER JI ER DA CHI JI *Onopordum algeriense*, AI JI DA CHI JI *Onopordum alexandrinum*, DA CHI JI *Onopordum acanthium*, NIU BANG YE *Arctium lappa*, YI LI LI YA DA CHI JI *Onopordum illyricum*. Ref: 5, 658, 1207, 1521.

**16120 Onosmin A**

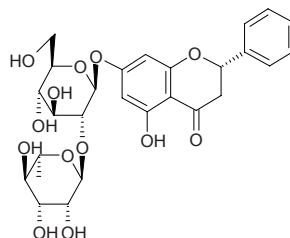
$C_{15}H_{15}NO_2$ (241.29). White amorphous solid, mp 185~187°C. Pharm: Lipoxygenase inhibitor (LOX, EC1.13.11.12, IC₅₀ = (24.2 \pm 0.04) μ mol/L, non-competitive type, K_i = (22.0 \pm 0.1) μ mol/L, positive control Baicalein, IC₅₀ = (22.0 \pm 0.05) μ mol/L, mixed type, K_i = (18.0 \pm 0.02) μ mol/L). Source: CU YING MAO DIAN ZI CAO *Onosma hispidum* (whole herb). Ref: 4490.

**16121 Onosmin B**

$C_{16}H_{17}NO_2$ (255.32). White amorphous solid, mp 137~140°C. Pharm: Lipoxygenase inhibitor (LOX, EC1.13.11.12, IC₅₀ = (36.0 \pm 0.03) μ mol/L, non-competitive type, K_i = (31.1 \pm 0.05) μ mol/L, positive control Baicalein, IC₅₀ = (22.0 \pm 0.05) μ mol/L, mixed type, K_i = (18.0 \pm 0.02) μ mol/L). Source: CU YING MAO DIAN ZI CAO *Onosma hispidum* (whole herb). Ref: 4490.

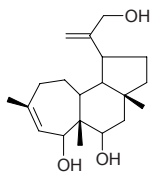
**16122 Onychin**

Sarotanoside [13241-31-1] $C_{27}H_{32}O_{13}$ (564.55). Colorless needles, mp 277~279°C, $[\alpha]_D^{26} = -104^\circ$ ($c = 0.56$, pyridine). Pharm: Cytotoxic (P₃₈₈, IC₅₀ = 2.58 μ g/mL). Source: MA ZHUANG SAI YA MA *Nierembergia hippomanica*, XIAO YE JI WEI *Onychium japonicum* [Syn. *Tricomanes japonicum*]. Ref: 2826, 2827, 2828.

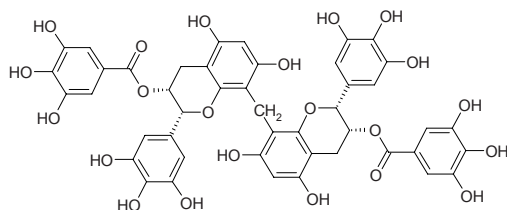


16123 Onychiol C

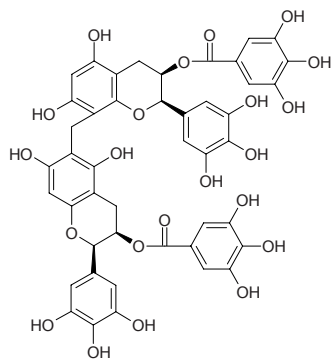
$C_{20}H_{32}O_3$ (320.48). Source: XIAO YE JI WEI *Onychium japonicum* [Syn. *Tricomanes japonicum*]. Ref: 2919.

**16124 Oolonghomobisflavan A**

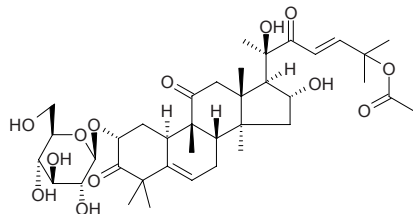
[126737-60-8] $C_{45}H_{36}O_{22}$ (928.78). Brown amorphous powder +4H₂O, $[\alpha]_D^{26} = -271.0^\circ$ ($c = 1.0$, acetone). Pharm: NADH dehydrogenase inhibitor (rat liver SMP, *Bacillus subtilis* etc.). Source: WU LONG CHA *Camellia sinensis* var. *viridis*. Ref: 2823, 2824.

**16125 Oolonghomobisflavan B**

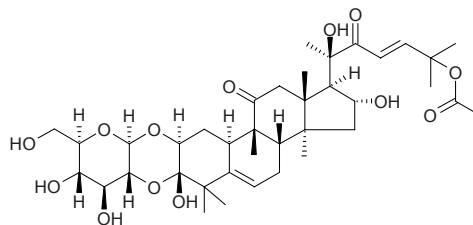
[126715-88-6] $C_{45}H_{36}O_{22}$ (928.78). Brown amorphous powder +3H₂O, $[\alpha]_D^{26} = -205.0^\circ$ ($c = 1.0$, acetone). Source: WU LONG CHA *Camellia sinensis* var. *viridis*. Ref: 2823.

**16126 Opercurin A**

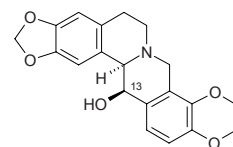
$C_{38}H_{56}O_{13}$ (720.86). Colorless amorphous powder, $[\alpha]_D^{20} = -3.73^\circ$ ($c = 0.51$, acetone). Source: NANG GAI SI GUA *Luffa operculata*. Ref: 2593.

**16127 Opercurin B**

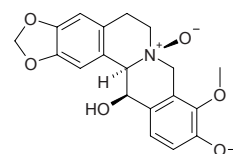
$C_{38}H_{56}O_{13}$ (720.86). Colorless amorphous powder, $[\alpha]_D = +45.4^\circ$ ($c = 1.42$, acetone). Source: NANG GAI SI GUA *Luffa operculata*. Ref: 2593.

**16128 Ophiocarpine**

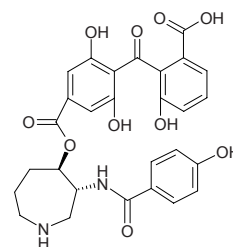
[478-13-7] $C_{20}H_{21}NO_5$ (355.39). Prisms (MeOH), mp 188°C, $[\alpha]_D^{24} = -283^\circ$ ($c = 1$, CHCl₃). Pharm: Cytotoxic; antimicrobial. Source: HUA ZI JIN *Corydalis cheilanthifolia*, KU MANG HUANG JIN *Corydalis govaniana*, SHE GUO HUANG JIN *Corydalis ophiocarpa*, *Corydalis campulicarpa*. Ref: 1521, 2898.

**16129 Ophiocarpine N-oxide**

Carpoxidine [66408-19-3] $C_{20}H_{21}NO_6$ (371.39). Crystals (MeOH), mp 213–215°C, 207–108°C, $[\alpha]_D = -110^\circ$ ($c = 0.5$, CHCl₃), $[\alpha]_D^{25} = -185^\circ$ ($c = 0.77$, C₆H₆:MeOH = 2:1). Source: SHE GUO HUANG JIN *Corydalis ophiocarpa*. Ref: 1521, 2898.

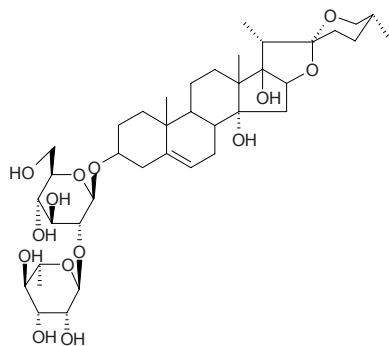
**16130 Ophiocordin**

[63590-19-2] $C_{28}H_{26}N_2O_{10}$ (550.53). Pale-yellow amorphous powder, mp > 175°C (dec). Pharm: Antifungal. Source: DA TUAN NANG CHONG CAO *Cordyceps ophioglossoides*. Ref: 2843, 2844.

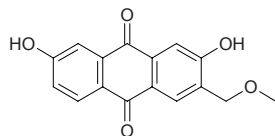


16131 Ophiogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside

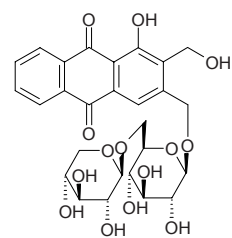
$C_{39}H_{62}O_{14}$ (754.92). Source: MAI DONG *Ophiopogon japonicus*. Ref: 2865.

**16132 Ophiohayatone A**

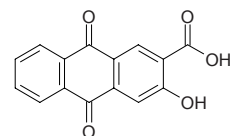
$C_{16}H_{12}O_5$ (284.27). Yellow powder, mp 164–166°C. Source: XIA YE SHE GEN CAO *Ophiorrhiza hayatana*. Ref: 4516.

**16133 Ophiohayatone B**

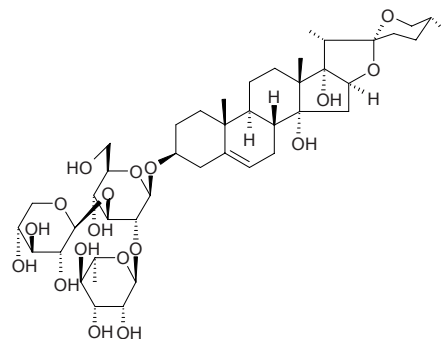
$C_{27}H_{30}O_{14}$ (578.53). Yellow powder, mp 209–210°C, $[\alpha]_D = -50.8^\circ$ ($c = 0.024$, MeOH). Source: XIA YE SHE GEN CAO *Ophiorrhiza hayatana*. Ref: 4516.

**16134 Ophiohayatone C**

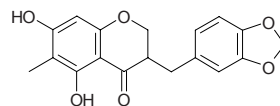
$C_{15}H_8O_5$ (268.23). Yellow powder, mp 191–193°C. Source: XIA YE SHE GEN CAO *Ophiorrhiza hayatana*. Ref: 4516.

**16135 Ophiopogon A**

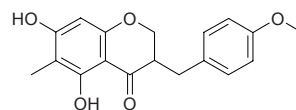
Ophiopogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 2) [β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-giucopyranoside $C_{44}H_{70}O_{18}$ (887.04). White amorphous powder, mp 250–255°C, $[\alpha]_D^{25} = -39.09^\circ$ ($c = 0.55$, MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 890.

**16136 Ophiopogonanone A**

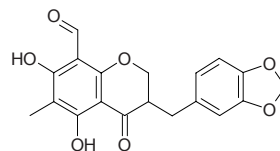
[75239-63-3] $C_{18}H_{16}O_6$ (328.32). Needles (EtOH), mp 175–176°C, $[\alpha]_D = -13.0^\circ$ ($c = 1$, dioxane). Source: MAI DONG *Ophiopogon japonicus*. Ref: 1397, 2796.

**16137 Ophiopogonanone B**

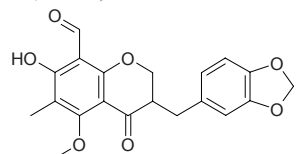
$C_{18}H_{18}O_5$ (314.34). Source: MAI DONG *Ophiopogon japonicus*. Ref: 1397.

**16138 Ophiopogonanone C**

$C_{19}H_{16}O_7$ (356.34). Colorless needles ($CHCl_3$), mp 171–172°C. Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 4663.

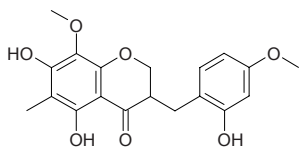
**16139 Ophiopogonanone D**

$C_{20}H_{18}O_7$ (370.36). Yellow glue-like solid, mp 65–68°C, $[\alpha]_D^{20} = -10.0^\circ$ ($c = 0.2$, MeOH). Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 4663.

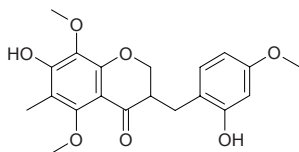


16140 Ophiopogonanone E

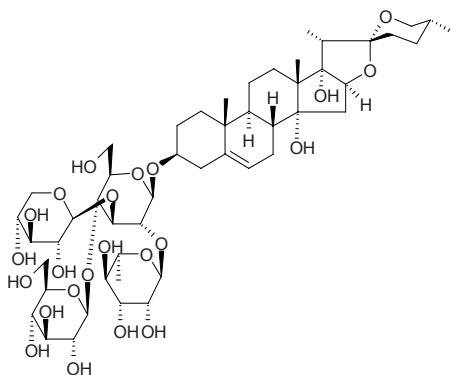
5,7-Dihydroxy-8-methoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one C₁₉H₂₀O₇ (360.37). Colorless glue-like solid, mp 62–64°C; amorphous powder, $[\alpha]_D^{22} = -12.6^\circ$ ($c = 0.29$, CHCl₃:MeOH = 1:2). Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 2044, 4663.

**16141 Ophiopogonanone F**

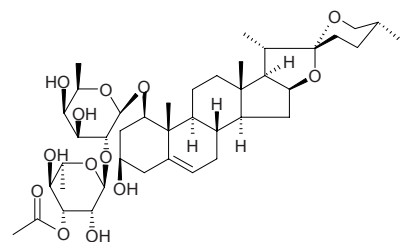
7-Hydroxy-5,8-dimethoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one C₂₀H₂₂O₇ (374.39). Dark red glue-like solid, mp 75–78°C, $[\alpha]_D^{20} = +300^\circ$ ($c = 0.01$, MeOH)^[4663]; $[\alpha]_D^{22} = -7.74^\circ$ ($c = 0.97$, MeOH)^[2044]. Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 2044, 4663.

**16142 Ophiopogon B**

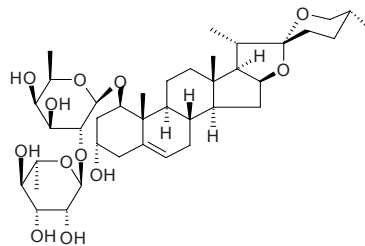
Ophiopogenin-3-*O*- α -L-rhamnopyranosyl (1→2) [β -*D*-xylopyranosyl(1→3)] [β -*D*-glucopyranosyl(1→4)]- β -*D*-glucopyranoside C₅₀H₈₀O₂₃ (1049.18). White Amorphous powder, mp 218–222°C, $[\alpha]_D^{25} = -57.82^\circ$ ($c = 0.31$, MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 890.

**16143 Ophiopogonin A**

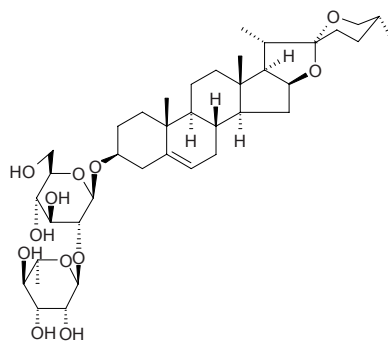
[11054-24-3] C₄₁H₆₄O₁₃ (764.96). Crystals (EtOH aq.), mp 182–184°C, $[\alpha]_D^{18} = -89.7^\circ$ ($c = 0.27$, pyridine). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660, 1521.

**16144 Ophiopogonin B**

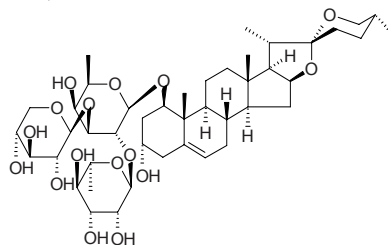
[38971-41-4] C₃₉H₆₂O₁₂ (722.92). mp 269–271°C. Source: MAI DONG *Ophiopogon japonicus* (dried tuberoid: mean content = 0.14%^[5508]). Ref: 1521, 5508.

**16145 Ophiopogonin C'**

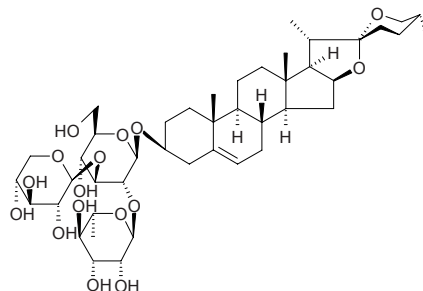
C₃₉H₆₂O₁₂ (722.92). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

**16146 Ophiopogonin D**

[41753-55-3] C₄₄H₇₀O₁₆ (855.04). mp 263–265°C. Source: MAI DONG *Ophiopogon japonicus* (dried tuberoid: mean content = 0.15%^[5508]). Ref: 660, 1521, 5508.

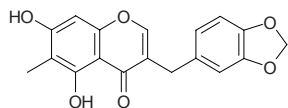
**16147 Ophiopogonin D'**

[65604-80-0] C₄₄H₇₀O₁₆ (855.04). Crystals (EtOH aq.), mp 255–257°C (dec), $[\alpha]_D^{18} = -41.34^\circ$ ($c = 0.17$, pyridine). Source: KUO YE SHAN MAI DONG *Liriope platyphylla*, MAI DONG *Ophiopogon japonicus*. Ref: 1521, 2965, 2938.

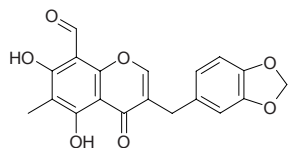


16148 Ophiopogonone A

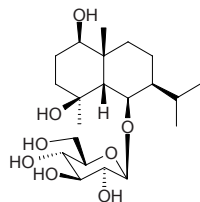
[75239-62-2] C₁₈H₁₄O₆ (326.31). Pale-yellow needles (EtOH), mp 235~236°C. Source: MAI DONG *Ophiopogon japonicus*. Ref: 2796, 2797.

**16149 Ophiopogonone C**

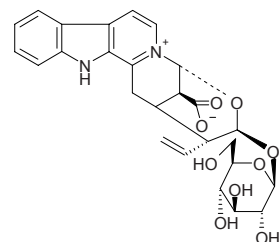
C₁₉H₁₄O₇ (354.32). Red powder, mp 147~149°C. Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 4663.

**16150 Ophiopogonoside A**

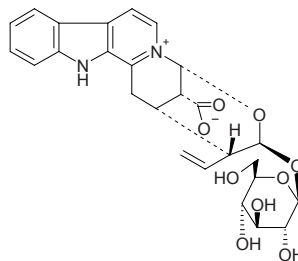
1β,4β,6β-Trihydroxy-*cis*-eudesmane-6-*O*-β-*D*-glucopyranoside C₂₁H₃₈O₈ (418.53). White amorphous powder, mp 217~219°C, [α]_D²⁵ = -3.4° (c = 0.30, MeOH). Source: MAI DONG *Ophiopogon japonicus* (tuber: yield = 0.000018%). Ref: 4772.

**16151 Ophiorine A**

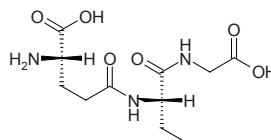
[99615-91-5] C₂₆H₂₈N₂O₉ (512.52). Pale-yellow needles, mp 217~219°C, [α]_D = +51°. Source: LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), RI BEN SHE GEN CAO *Ophiorrhiza japonica*, HEI YAN SHE GEN CAO *Ophiorrhiza kuroiwai*. Ref: 2966, 4527.

**16152 Ophiorine B**

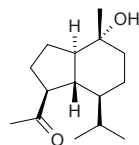
[99631-26-2] C₂₆H₂₈N₂O₉ (512.52). Pale-yellow needles, mp 188~191°C, [α]_D = +18.2°. Pharm: Ileal smooth muscle relaxant (gpg, *in vitro*, contraction caused by electrostimulation, ED₅₀ = 53 μmol/L). Source: HEI YAN SHE GEN CAO *Ophiorrhiza kuroiwai*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), RAN LIAO SI SHI MU *Sickingia tinctoria*, RI BEN SHE GEN CAO *Ophiorrhiza japonica*, WEI LIAN SI SHI MU *Sickingia williamsii*. Ref: 2966, 2967, 2968, 4527.

**16153 Ophthalmic acid**

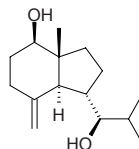
γ-*L*-Glutamyl-*L*-α-aminobutyryl glycine [495-27-2] C₁₁H₁₉N₃O₆ (289.29). mp 179~180°C (dec), [α]_D²⁰ = -29° (c = 2.4, H₂O). Source: QUN DAI CAI *Undaria pinnatifida*. Ref: 1521, 2735.

**16154 Oplopanone**

C₁₅H₂₆O₂ (238.37). Colorless prisms (*n*-hexane-EtOAc), mp 95-97°C. Pharm: Antiplasmodial inactive (*Plasmodium falciparum* strains, IC₅₀ > 50.00 μg/mL, control Chloroquine, IC₅₀ = 0.0028 μg/mL)^[2383]. Source: HUANG PI GEN *Clausena lansium*, *Reneilimia cincinnata* (fruits), ZHOU YE MU LAN *Magnolia praecocissima* (seed). Ref: 2383, 2959, 4181.

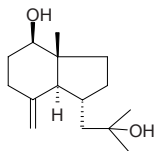
**16155 (7*R**)-Opposit-4(15)-ene-1β,7-diol**

C₁₅H₂₆O₂ (238.37). Colorless amorphous solid, [α]_D²⁶ = +36.8° (c = 0.3, CHCl₃). Source: YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

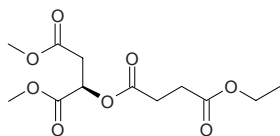


16156 Opposit-4(15)-ene-1 β ,11-diol

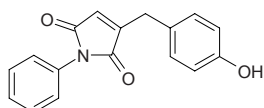
C₁₅H₂₆O₂ (238.37). Source: YI NIAN PENG *Erigeron annuus* (aerial parts), SU MEN BAI JIU CAO *Erigeron sumatrensis* (aerial parts). Ref: 4338.

**16157 Opuntiaester**

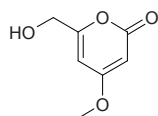
Dimethyl (2*R*)-2-[(4-ethoxy-4-oxobutanoyl)oxy]succinate C₁₂H₁₈O₈ (290.27). Colorless oil. Source: XIAN REN ZHANG *Opuntia dillenii* (stem). Ref: 4808.

**16158 Opuntin B**

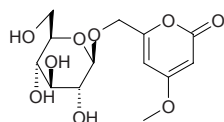
C₁₇H₁₃NO₃ (279.30). Yellowish crystals (acetone), mp 213°C. Source: XIAN REN ZHANG *Opuntia dillenii*. Ref: 2473.

**16159 Opuntiol**

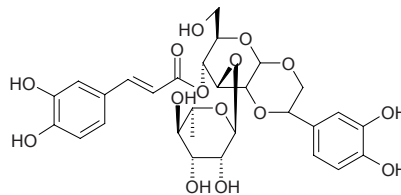
C₇H₈O₄ (156.14). Colorless needles, mp 180~181°C. Pharm: DPPH scavenger (SC₅₀ > 100 μmol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity > 100 μmol/L)^[4247]. Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.0032%). Ref: 4247, 4826.

**16160 Opuntioside**

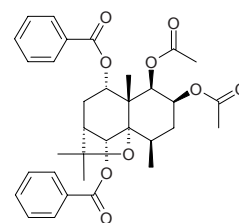
Opuntioside I; 4-Methoxy-6-(β -*D*-glucopyranoxymethyl)-2*H*-pyran-2-one C₁₃H₁₈O₉ (318.28). Colorless cubic crystals, mp 145~147°C, [α]_D²⁶ = -42.0° (*c* = 1.0, MeOH); colorless fine crystals, mp 128.2~131.3°C, [α]_D²⁶ = -42.0° (*c* = 1.0, MeOH). Pharm: DPPH scavenger (SC₅₀ > 100 μmol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity > 100 μmol/L)^[4247]. Source: XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.0078%). Ref: 4247, 4826.

**16161 Oroposide‡**

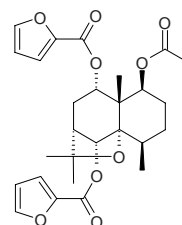
Orobanchoside; 2-(3,4-Dihydroxy) phenyl ethanol (1→1) (2→2)-[(1→3)-rhamnopyranosyl-4-*O*-caffeoyl] glucoside C₂₉H₃₄O₁₅ (622.59). Yellowish amorphous powder. Source: GUANG FANG FENG *Anisomeles indica* [Syn. *Epimeredi indica*] (whole herb). Ref: 4592. ‡Note: see compound 4225.

**16162 Orbiculin A**

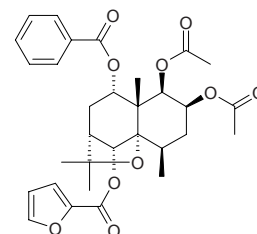
C₃₃H₃₈O₉ (578.67). Pharm: Anti-inflammatory inactive (*in vitro*, NF- κ B inhibitor, IC₅₀ > 300 μmol/L; NO production inhibitor, IC₅₀ > 300 μmol/L; control Aminoguanidine, IC₅₀ = (16.3±0.4) μmol/L). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.0025%dw). Ref: 4604.

**16163 Orbiculin D**

C₂₇H₃₂O₉ (500.55). Pharm: Anti-inflammatory (*in vitro*, NF- κ B inhibitor, IC₅₀ = (36.7±1.4) μmol/L; NO production inhibitor, IC₅₀ = (43.6±1.2) μmol/L; control Aminoguanidine, IC₅₀ = (16.3±0.4) μmol/L). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.0086%dw). Ref: 4604.

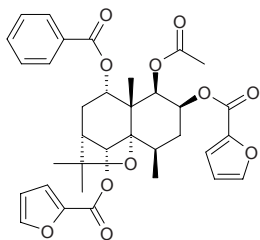
**16164 Orbiculin E**

C₃₁H₃₆O₁₀ (568.63). Pharm: Anti-inflammatory inactive (*in vitro*, NF- κ B inhibitor, IC₅₀ > 300 μmol/L; NO production inhibitor, IC₅₀ > 300 μmol/L; control Aminoguanidine, IC₅₀ = (16.3±0.4) μmol/L). Source: NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.001%dw). Ref: 4604.

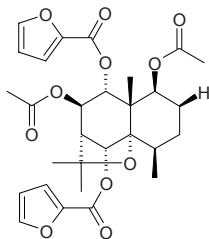


16165 Orbiculin F

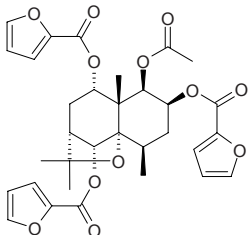
$C_{34}H_{36}O_{11}$ (620.66). **Pharm:** Anti-inflammatory inactive (*in vitro*, NF- κ B inhibitor, $IC_{50} > 300\mu\text{mol/L}$; NO production inhibitor, $IC_{50} > 300\mu\text{mol/L}$; control Aminoguanidine, $IC_{50} = (16.3\pm 0.4)\mu\text{mol/L}$). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.0027%dw). **Ref:** 4604.

**16166 Orbiculin H**

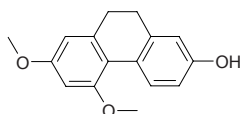
1 β ,8 β -Diacetoxy-6 α ,9 α -difuroyloxydihydro- β -agarofuran $C_{29}H_{34}O_{11}$ (558.59). White amorphous powder, mp 111~113°C, $[\alpha]_D^{25} = -19.5^\circ$ ($c = 1.00$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, NF- κ B inhibitor, $IC_{50} = (33.5\pm 1.1)\mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (50.4\pm 0.8)\mu\text{mol/L}$; control Aminoguanidine, $IC_{50} = (16.3\pm 0.4)\mu\text{mol/L}$). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.0047%dw). **Ref:** 4604.

**16167 Orbiculin I**

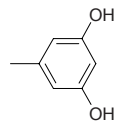
1 β -Acetoxy-2 β ,6 α ,9 α -trifuroyloxydihydro- β -agarofuran $C_{32}H_{34}O_{12}$ (610.62). White needles, mp 253~255°C, $[\alpha]_D^{25} = +39.2^\circ$ ($c = 0.63$, MeOH). **Pharm:** Anti-inflammatory (*in vitro*, NF- κ B inhibitor, $IC_{50} = (61.5\pm 1.4)\mu\text{mol/L}$; NO production inhibitor, $IC_{50} = (51.2\pm 1.3)\mu\text{mol/L}$; control Aminoguanidine, $IC_{50} = (16.3\pm 0.4)\mu\text{mol/L}$). **Source:** NAN SHE TENG GEN *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (root: yield = 0.001%dw). **Ref:** 4604.

**16168 Orchinol**

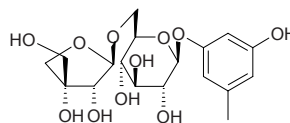
[41060-20-2] $C_{16}H_{16}O_3$ (256.30). **Pharm:** Antifungal; plant antitoxin. **Source:** AO SHE LAN *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], BAI SHOU SHEN *Gymnadenia albida*, *Orchis* sp. **Ref:** 658.

**16169 Orcinol**

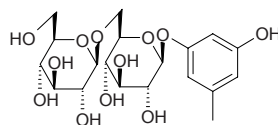
5-Methyl-1,3-benzenediol [504-15-4] $C_7H_8O_2$ (124.14). White acicular crystals (water), monohydrate crystals: mp 59°C, anhydrite mp 107°C; bp 290°C, 147°C/5mmHg. **Pharm:** Antifungal; spermicidal (4mg/mL); antioxidant inactive (DPPH radical scavenger assay)^[5232]; cytotoxic inactive (MCF, HM02, HepG2)^[5232]; antihistamine inactive (rat peritoneal mast cells, compound 48/80-induced)^[4755]; LD₅₀ (mus, iv) = (290±30)mg/kg, (mus, ip) = (405±14)mg/kg, (rat, orl) = 33.8mg/kg. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.00046%)^[4755] MEI YI *Parmelia tinctorum*, NIU XI XI *Rumex patientia*, OU SHI NAN *Erica arborea*, SAN XING OU SHI NAN *Erica umbellata*. **Ref:** 658, 661, 4755, 5232.

**16170 Orcinol-1-O- β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

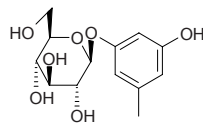
$C_{18}H_{26}O_{11}$ (418.40). Colorless amorphous powder. **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 1.17\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 1.84\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$). **Source:** XIAN MAO *Curculigo orchioides* (rhizome). **Ref:** 4499.

**16171 Orcinol-1-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

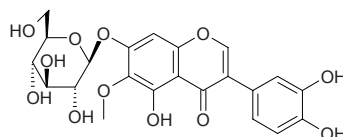
$C_{19}H_{28}O_{12}$ (448.43). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 0.87\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 1.56\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$). **Source:** XIAN MAO *Curculigo orchioides* (rhizome). **Ref:** 4499.

**16172 Orcinol glucoside**

$C_{13}H_{18}O_7$ (286.28). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 1.39\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.43\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 2.49\mu\text{mol/L}$, control EGCG, $IC_{50} = 0.53\mu\text{mol/L}$)^[4499]. **Source:** XIAN MAO *Curculigo orchioides*. **Ref:** 2859, 4499.

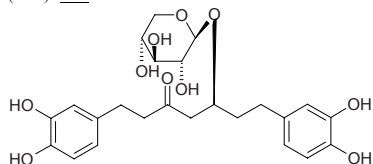
**16173 Ordoritin-glucoside**

$C_{22}H_{22}O_{12}$ (478.41). **Source:** *Glycyrrhiza* sp. **Ref:** 2431.

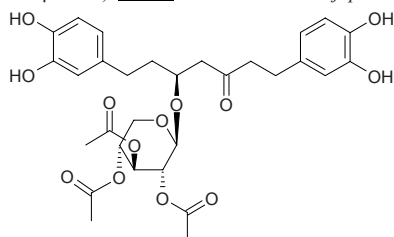


16174 Oregonin

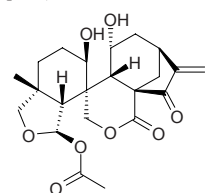
$C_{24}H_{30}O_{10}$ (478.50). Pale yellow viscous liquid, $[\alpha]_D = -16.9^\circ$ ($c = 0.12$, MeOH). **Pharm:** Antioxidant (superoxide radical scavenger, $IC_{50} = 2.2\mu\text{mol/L}$; DPPH scavenger, $IC_{50} = 4.6\mu\text{mol/L}$). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**16175 Oregonin peracetate**

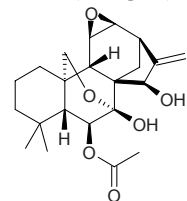
$C_{30}H_{36}O_{13}$ (604.61). **Pharm:** Antioxidant (superoxide radical scavenger, $IC_{50} = 31.0\mu\text{mol/L}$). **Source:** CHI YANG *Alnus japonica* (leaf). **Ref:** 4535.

**16176 Oreskaurin A**

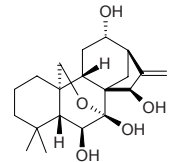
1 β ,11 α -Dihydroxy-6 β -acetoxo-6,7-seco-6,19-epoxy-7,20-olide-ent-kaur-16-en-15-one $C_{22}H_{28}O_8$ (420.46). White amorphous powder, $[\alpha]_D^{20} = -75.0^\circ$ ($c = 0.1$, MeOH). **Source:** SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808.

**16177 Oreskaurin B**

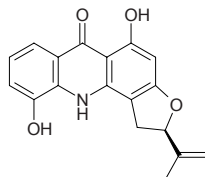
7 β ,15 β -Dihydroxy-6 β -acetoxo-7 α ,20-epoxy-11 β ,12 β -epoxy-ent-kaur-16-ene $C_{22}H_{30}O_6$ (390.48). Colorless cubic crystals, mp 167~169 $^\circ$, $[\alpha]_D^{20} = -72.7^\circ$ ($c = 0.06$, MeOH). **Pharm:** Cytotoxic inactive (K562 cells, MTT method, control *cis*-Platin, $IC_{50} = 0.53\mu\text{g/mL}$). **Source:** SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808.

**16178 Oreskaurin C**

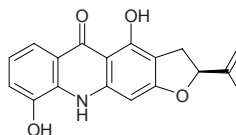
6 β ,12 α ,15 β -Trihydroxy-7 α ,20-epoxy-ent-kaur-16-ene $C_{20}H_{30}O_5$ (350.46). White amorphous powder, $[\alpha]_D^{20} = -22.2^\circ$ ($c = 0.08$, MeOH). **Source:** SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808.

**16179 Oriciacidone C**

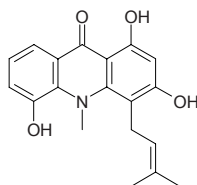
$C_{18}H_{15}NO_4$ (309.32). Yellow needles (MeOH), mp 253~254 $^\circ\text{C}$, $[\alpha]_D^{25} = +21.8^\circ$ ($c = 0.39$, MeOH). **Pharm:** α -Glucosidase inhibitor ($IC_{50} = (56\pm 5)\mu\text{mol/L}$, control Deoxynojirimycin, $IC_{50} = (330\pm 8)\text{mmol/L}$); antioxidant (DPPH Scavenger, $IC_{50} = (60.79\pm 1.23)\mu\text{mol/L}$, control BHA, $IC_{50} = (44.20\pm 0.02)\mu\text{mol/L}$). **Source:** *Oriciopsis glaberrima* (stem cortex: yield = 0.00075%dw). **Ref:** 1590.

**16180 Oriciacidone D**

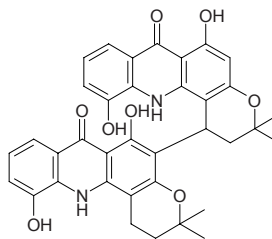
$C_{18}H_{15}NO_4$ (309.32). Yellow crystals (MeOH), mp 265~266 $^\circ\text{C}$, $[\alpha]_D^{25} = +87.4^\circ$ ($c = 0.50$, MeOH). **Pharm:** Antioxidant (DPPH Scavenger, $IC_{50} = (194.10\pm 1.72)\mu\text{mol/L}$, control BHA, $IC_{50} = (44.20\pm 0.02)\mu\text{mol/L}$). **Source:** *Oriciopsis glaberrima* (stem cortex: yield = 0.0005%dw). **Ref:** 1590.

**16181 Oriciacidone E**

$C_{19}H_{19}NO_4$ (325.37). Yellow amorphous powder (MeOH), $[\alpha]_D^{25} = +63.6^\circ$ ($c = 0.70$, MeOH). **Source:** *Oriciopsis glaberrima* (stem cortex: yield = 0.00024%dw). **Ref:** 1590.

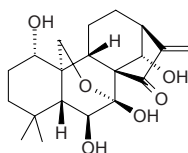
**16182 Oriciacidone F**

$C_{36}H_{32}N_2O_8$ (620.67). Yellow powder (MeOH), mp 187~189 $^\circ\text{C}$, $[\alpha]_D^{25} = +35.6^\circ$ ($c = 0.62$, MeOH). **Pharm:** α -Glucosidase inhibitor ($IC_{50} = (34\pm 17)\mu\text{mol/L}$, control Deoxynojirimycin, $IC_{50} = (330\pm 8)\text{mmol/L}$); antioxidant (DPPH Scavenger, $IC_{50} = (482\pm 2)\mu\text{mol/L}$, control BHA, $IC_{50} = (44.20\pm 0.02)\mu\text{mol/L}$). **Source:** *Oriciopsis glaberrima* (stem cortex: yield = 0.00075%dw). **Ref:** 1590.

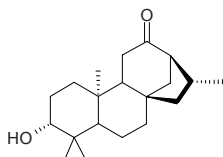


16183 Oridonin

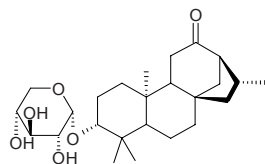
Rubescensine; Rubescensin A; Isodonol [28957-04-2] C₂₀H₂₈O₆ (364.44). Colorless presms (EtOH), mp 254–260°C, [α]_D²⁵ = –51° (c = 0.1, EtOH); mp 250–252°C, [α]_D = –54.6° (c = 0.097, EtOH); mp 247–250°C; mp 248–250°C, [α]_D¹⁷ = –46°, (c = 1.0, C₅H₅N). **Pharm:** Anti-angiogenic (*in vitro*, 2.5 μg/mL)^[3001]; cytotoxic (K562, IC₅₀ = 4.37 μmol/L, control Cisplatin IC₅₀ = 3.84 μmol/L; Bcap37, IC₅₀ = 8.32 μmol/L, Cisplatin IC₅₀ = 1.54 μmol/L; BIU87, IC₅₀ = 55.91 μmol/L, Cisplatin IC₅₀ = 4.34 μmol/L; CA, IC₅₀ = 0.06 μmol/L, Cisplatin IC₅₀ = 0.88 μmol/L; CNE, IC₅₀ = 16.50 μmol/L, Cisplatin IC₅₀ = 6.54 μmol/L; HeLa, IC₅₀ = 28.67 μmol/L, Cisplatin IC₅₀ = 3.60 μmol/L)^[4353]; antibacterial (gram-positive bacteria with strong effects, *staphylococcus aureus*, MIC = 31 μg/mL; gram-negative bacteria, MIC = 62.5–500 μg/mL); inhibits biosynthesis of DNA, RNA and protein; larvacide (inhibits growth of order Lepidoptera larva); synergist of antineoplastic bleomycin A5; antineoplastic (hmn and animal, *in vitro* and *in vivo*, used in treatment of cancer of esophagus, pancreas and liver)^[2631]; cytotoxic (MGc803 hmn gastric adenocarcinoma cell line, CaEs-17 esophageal cancer cell line, *in vitro*, effective at concentrations below 15 mg/mL; Ehrlich ascites carcinoma, *in vitro*; mechanism was postulated to be due to covalent binding of oridonin to a specific site of enzymes in tumor cells)^[5369]; cytotoxic (L₁₂₁₀ cells *in vitro*, inhibits DNA, RNA, and protein syntheses in a concentration-dependent manner)^[5369]; antineoplastic (mus, L₁₂₁₀ leukemia, *in vivo*)^[5369]; LD₅₀ (mus ip) = 37.5 mg/kg, 35–40 mg/kg, and 55.8 mg/kg. **Source:** DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.575%^[5508]; leaf: mean content = 0.775%^[5508]), LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO GUO XIANG CHA CAI *Isodon trichocarpa*, MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], MIAN MAO GUO XIANG CHA CAI *Isodon lasiocarpus*, XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. **Ref:** 2, 4, 504, 658, 2631, 3001, 4067, 4353, 5348, 5369, 5508.

**16184 Oriediterpenol**

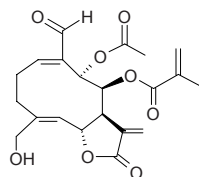
C₂₀H₃₂O₂ (304.48). Colorless crystals (Petroleum ether–EtOAc), mp 214–216°C, [α]_D²⁰ = –5.17° (c = 0.5, MeOH). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2246.

**16185 Oriediterpenoside**

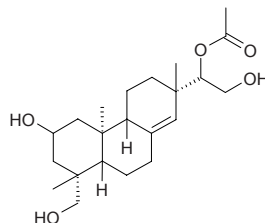
C₂₅H₄₀O₆ (436.59). White powder, (Petroleum ether–EtOAc), mp 218°C, [α]_D²⁰ = –27.53° (c = 0.5, MeOH). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2246.

**16186 Orientalide**

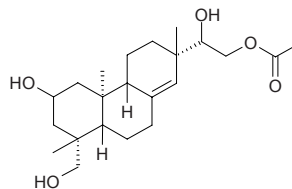
[72704-05-3] C₂₁H₂₄O₈ (404.42). Noncrystal, [α]_D²⁵ = +41.2° (c = 0.034, CHCl₃). **Source:** XI XIAN *Siegesbeckia orientalis*. **Ref:** 2906.

**16187 Orientalin A**

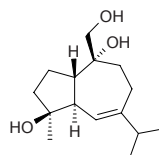
C₂₂H₃₆O₅ (380.53). mp 158–159°C, [α]_D²⁵ = 57.5° (c = 0.348, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis*. **Ref:** 9.

**16188 Orientalin B**

C₂₂H₃₆O₅ (380.53). mp 92.5–94°C. **Source:** XI XIAN *Siegesbeckia orientalis*. **Ref:** 9.

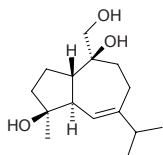
**16189 Orientalol A**

[147368-34-1] C₁₅H₂₆O₃ (254.37). Oil, [α]_D²⁰ = 0° (c = 0.83, MeOH). **Pharm:** Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μmol/L, contractive rate = 44.3%). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2879, 2880, 5501.

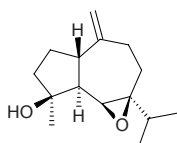


16190 Orientalol B

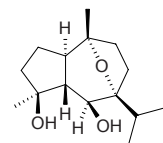
[147368-35-2] C₁₅H₂₆O₃ (254.37). Oil, [α]_D²⁰ = 0° (c = 0.83, MeOH). **Pharm:** Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μ mol/L, contractive rate = 39.4%). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2879, 2880, 5501.

**16191 Orientalol C**

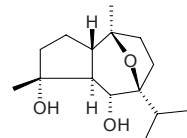
6,7-Epoxy-10(14)-guaien-4-ol [147511-74-8] C₁₅H₂₄O₂ (236.36). Oil, [α]_D²⁰ = +2.5° (c = 0.56, MeOH). **Pharm:** Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μ mol/L, contractive rate = 52.1%). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2880, 5501.

**16192 Orientalol E**

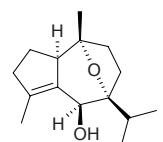
(1*R**, 4*S**, 5*R**, 6*S**, 7*R**, 10*R**)-4,6-Dihydroxy-7,10-epoxy-1,5-*trans*-guaiane C₁₅H₂₇O₃ (254.37). Colorless prisms, mp 140–142°C, [α]_D²⁵ = +5.2° (c = 0.5, MeOH). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 3416.

**16193 Orientalol E**

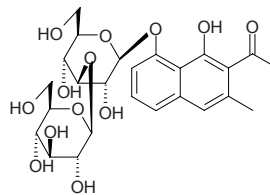
1,4-*trans*-7 β ,10 β -Epoxy-4 α ,6 α -dihydroxyguaiane C₁₅H₂₆O₃ (254.37). Oil. **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 2149.

**16194 Orientalol F**

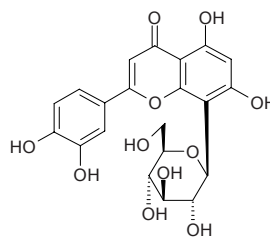
6 β -Hydroxy-7 α ,10 α -epoxyguaiane-4,5-ene C₁₅H₂₄O₂ (236.36). Pale yellow oil, [α]_D²⁵ = +4.3° (c = 0.5, MeOH). **Source:** ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. **Ref:** 3416.

**16195 Orientaloside**

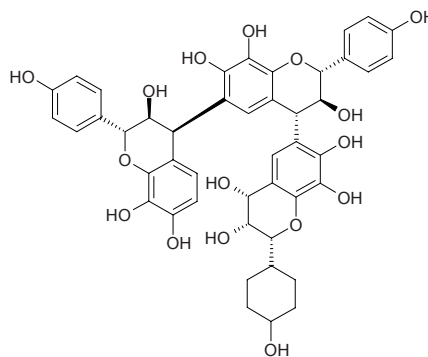
2-Acetyl-3-methyl-1,8-dihydroxynaphthalene-8-*O*- β -D-glucopyranosyl (1 \rightarrow 3)- β -D-glucopyranoside C₂₅H₃₂O₁₃ (540.53). Amorphous. **Source:** NIU XI XI *Rumex patientia*. **Ref:** 5138.

**16196 Oritin**

Luteolin-8-*C*- β -D-glucopyranoside [28608-75-5] C₂₁H₂₀O₁₁ (448.39). mp 265–270°C (dec). **Pharm:** Thyroid peroxidase inhibitor; Phytoalexin^[4727]. **Source:** CHANG BAN JIN LIAN HUA *Trollius macropetalus*, HONG CAO *Polygonum orientale*, HU LU BA *Trigonella foenum-graecum* (dried ripe seed: content scope of 18 origins = 0.0089%–0.0259%, mean content = 0.0168%)^[5508], HU ZHI ZI *Lespedeza bicolor*, HUANG GUA *Cucumis sativus* (leaf)^[4727], JIN LIAN HUA *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], QIAO MAI JIE *Fagopyrum esculentum*, QIAN QU CAI *Lythrum salicaria*, SUAN JIAO *Tamarindus indica*, XI XIAN *Siegesbeckia orientalis*, YA MA *Linum usitatissimum*. **Ref:** 2, 6, 245, 658, 660, 4727, 5508.

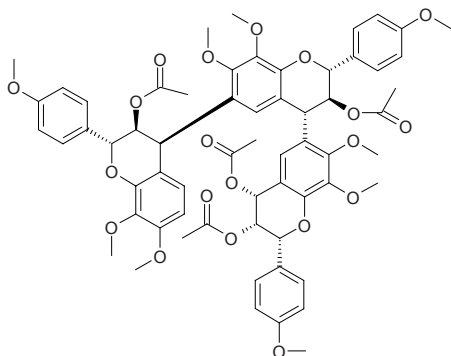
**16197 Oritin-(4 β \rightarrow 6)-oritin-(4 α \rightarrow 6)-epioritin-4 α -ol**

C₄₅H₄₄O₁₆ (840.84). **Source:** *Acacia galpinii* (heartwood), *Acacia caffra* (heartwood). **Ref:** 3753.



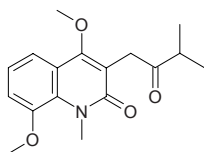
16198 Oritin-(4 β →6)-oritin-(4 α →6)-epioritin-4 α -ol nona-*O*-methylether tetra-acetate

C₆₂H₆₄O₂₀ (1129.19). Source: *Acacia galepinii* (heartwood). Ref: 3753.



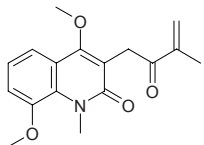
16199 Orixalone A

C₁₇H₂₁NO₄ (303.36). Colorless oil. Pharm: NO production inhibitor (RAW264.7 cells, LPS/IFN- γ -induced, 10 μ mol/L, InRt = 47.3%, 50 μ mol/L, InRt = 54.8%; no significantly cytotoxic to RAW264.7 cells at the effective concentration). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.0031%dw). Ref: 4774.



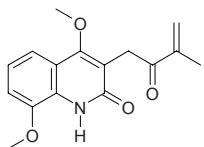
16200 Orixalone B

C₁₇H₁₉NO₄ (301.35). Colorless oil. Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00034%dw). Ref: 4774.



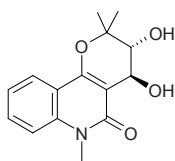
16201 Orixalone C

C₁₆H₁₇NO₄ (287.32). Colorless oil. Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00019%dw). Ref: 4774.



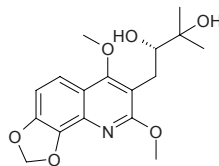
16202 Orixalone D

C₁₅H₁₇NO₄ (275.31). Colorless oil, [α]_D²⁴ = +3.1° (c = 0.064, MeOH). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00032%dw). Ref: 4774.



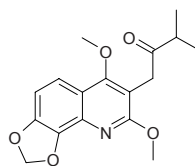
16203 Orixine

[17232-53-0] C₁₇H₂₁NO₆ (335.36). mp 152.5°C. Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.0028%dw). Ref: 6, 4774.



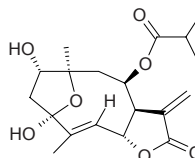
16204 Orixinone

[39027-00-4] C₁₇H₁₉NO₅ (317.34). mp 102~103°C. Pharm: NO production inhibitor inactive (RAW264.7 cells, LPS/IFN- γ -induced, 30 μ mol/L; weak cytotoxic to RAW264.7 cells). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.031%dw). Ref: 6, 4774.



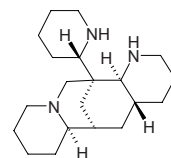
16205 Orizabin

[34367-14-1] C₁₉H₂₆O₇ (366.41). Pharm: Antineoplastic; cytotoxic. Source: MO XI GE XIANG RI KUI *Tithonia tagiliflora*. Ref: 658.



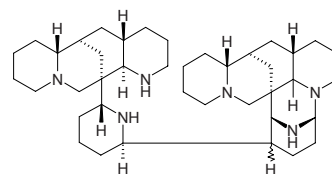
16206 Ormosanine

Piptanthine [7344-67-4] C₂₀H₃₅N₃ (317.52). mp 183~184°C, mp 142~146°C, 136~137°C, [α]_D = -24°. Source: HONG DOU *Ormosia hosiei*, SHA DONG QING *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*], XIAO SHA DONG QING *Piptanthus nanus*. Ref: 6, 1521, 2972, 2973.



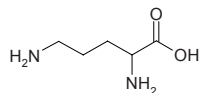
16207 Ormosinine

[14350-67-5] C₄₀H₆₆N₆ (631.01). Needles (EtOAc), mp 219~220°C, 203~205°C, [α]_D²⁵ = +8.9° (CHCl₃). Source: *Ormosia dasycarpa*, *Ormosia panamensis*, *Ormosia jamaicensis*. Ref: 660, 1521.

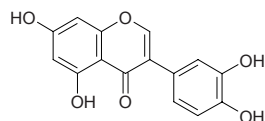


16208 Ornithine

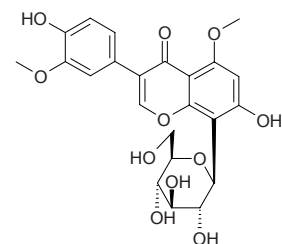
2,5-Diaminopentanoic acid $C_5H_{12}N_2O_2$ (132.16). mp L(+) 140°C. Source: LIE DANG *Orobanchae coerulescens*. Ref: 6.

**16209 Orobol**

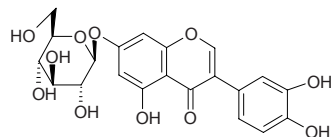
Santol; 5,7,3',4'-Tetrahydroxyisoflavone [480-23-9] $C_{15}H_{10}O_6$ (286.24). Pale-yellow crystals (AcOH), mp 212°C; Pale yellow powder, mp 267~268°C. Pharm: Anti-gonadotropin; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), $IC_{50} = 36\mu\text{mol/L}$, control Silybin $IC_{50} = 41\mu\text{mol/L}$)^[4095]. Source: DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0089%dw), GUANG BU DING GONG TENG *Erycibe expansa*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], SHAN DI XIANG WAN DOU *Lathyrus montanus*, *Bolusanthus speciosus*, *Baptisia* spp., *Lathyrus* spp., *Thermopsis* spp. Ref: 658, 2925, 4095, 4767.

**16210 Orobol 5,3'-di-O-methyl-8-C-glucoside**

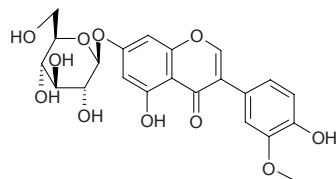
$C_{23}H_{24}O_{11}$ (476.44). Fine pale yellow needles, mp 233~237°C (MeOH/H₂O). Source: ZHUO SE SANG CHENG *Maclura tinctoria*. Ref: 2353.

**16211 Oroboside**

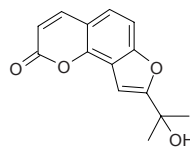
[20486-33-3] $C_{21}H_{20}O_{11}$ (448.39). Source: FO JIA CAO *Sedum lineare* [Syn. *Sedum obtuso-lineare*]. Ref: 2917.

**16212 Oroboside-3'-methylether**

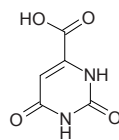
$C_{22}H_{22}O_{11}$ (462.41). Source: FO JIA CAO *Sedum lineare* [Syn. *Sedum obtuso-lineare*]. Ref: 2917.

**16213 Oroselol**

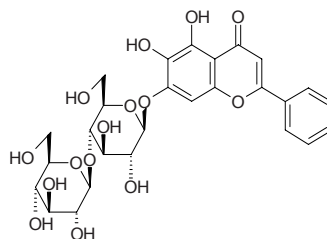
[1891-25-4] $C_{14}H_{12}O_4$ (244.25). mp 148~151°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**16214 Orotic acid**

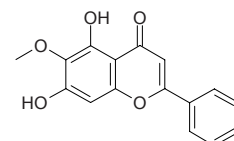
2,6-Dioxo-1,2,3,6-tetrahydro-4-pyrimidinecarboxylic acid [65-86-1] $C_5H_4N_2O_4$ (156.10). mp 345~346°C; 322~325°C. Source: NIU RU *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**16215 Oroxin B**

$C_{27}H_{30}O_{15}$ (594.53). mp 155~157°C. Source: MU HU DIE *Oroxylum indicum*. Ref: 6.

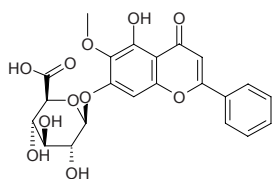
**16216 Oroxylin A**

Oroxylin [480-11-5] $C_{16}H_{12}O_5$ (284.27). mp 231~232°C. Pharm: Anti-inflammatory (hmn platelets 12-LOX inhibitor, without affecting level of cyclooxygenase)^[4415]; cytotoxic (hmn peripheral blood T cells, dose = 2.0μg/mL, T cell survival rate = 72%)^[3498]; immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0μg/mL, InRt = 49%)^[3498]. Source: CHUAN HUANG QIN *Scutellaria hypericifolia*, DIAN HUANG QIN *Scutellaria amoena* (dried root: content scope of 10 samples = 0.07%~0.46%, mean content = 0.21%^[5508]), GAN SU HUANG QIN *Scutellaria rehdiana*, HONG CHAI HU *Bupleurum scorzonerifolium* (root), HUANG QIN *Scutellaria baicalensis*, LI JIANG HUANG QIN *Scutellaria likiangensis*, MU HU DIE SHU PI *Oroxylum indicum*, NIAN MAO HUANG QIN *Scutellaria viscidula*. Ref: 6, 660, 1521, 3498, 4415, 5508.

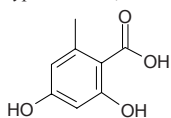


16217 Oroxylin A 7-O-glucuronide

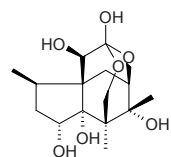
$C_{22}H_{20}O_{11}$ (460.40). Source: HUANG QIN *Scutellaria baicalensis* (dry root: content scope of 10 samples = 0.33%~1.83%, mean content = 1.29%^[5508]). Ref: 2946, 5508.

**16218 Orsellinic acid**

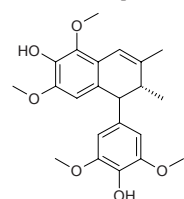
[480-64-8] $C_8H_8O_4$ (168.15). Source: HONG SHI ER *Umbilicaria hypococcinea*, ZHOU MU ER *Auricularia delicata*. Ref: 2807, 2808.

**16219 (11)7,14-Ortholactone-3 α -hydroxyfloridanolide**

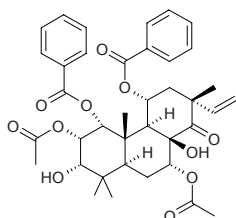
$C_{15}H_{24}O_7$ (316.35). Colorless amorphous powder, $[\alpha]_D^{20} = -9^\circ$ ($c = 0.40$, CH_3OH). Source: *Illicium merrillianum* (pericarp: yield = 0.00013%dw). Ref: 3046.

**16220 Orthosilignin**

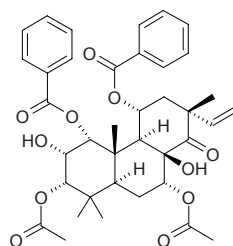
$C_{22}H_{26}O_6$ (386.45). Colorless cubical crystals ($CHCl_3$). Source: JI JIAO SHEN *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*]. Ref: 2258.

**16221 Orthosiphol A**

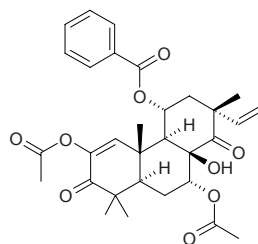
[142741-25-1] $C_{38}H_{44}O_{11}$ (676.77). Colorless lamellar crystals (Et_2O), mp $210^\circ C$, $[\alpha]_D^{26} = -127^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits inflammation induced by cancer promotor TPA); cytotoxic (antiproliferative, Colon26-L5, $ED_{50} = 63.8 \mu g/mL$, control 5-Fluorouracil, $ED_{50} = 0.015 \mu g/mL$; HT1080, $ED_{50} > 100 \mu g/mL$, 5-Fluorouracil, $ED_{50} = 0.48 \mu g/mL$)^[3053]; NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 11.5 \mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0 \mu mol/L$; Polymixin B, $IC_{50} = 27.8 \mu g/mL$)^[4677]. Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.002%dw). Ref: 2926, 2927, 3053, 4677, 4741.

**16222 Orthosiphol B**

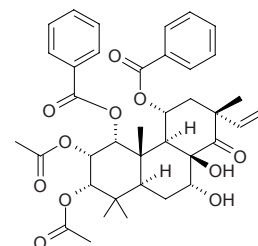
[144078-08-0] $C_{38}H_{44}O_{11}$ (676.77). Colorless lamellar crystals (Et_2O), mp $240^\circ C$, $[\alpha]_D^{11} = -82^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits inflammation induced by cancer promotor TPA); cytotoxic (antiproliferative, Colon26-L5, $ED_{50} = 28.1 \mu g/mL$, control 5-Fluorouracil, $ED_{50} = 0.015 \mu g/mL$; HT1080, $ED_{50} = 57.9 \mu g/mL$, 5-Fluorouracil, $ED_{50} = 0.48 \mu g/mL$)^[3053]; NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 20.5 \mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0 \mu mol/L$; Polymixin B, $IC_{50} = 27.8 \mu g/mL$)^[4677]. Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0014%~0.0033%dw). Ref: 2926, 2927, 3053, 4677, 4741.

**16223 Orthosiphol D**

$C_{31}H_{36}O_9$ (552.63). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 14.4 \mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0 \mu mol/L$; Polymixin B, $IC_{50} = 27.8 \mu g/mL$)^[4677]. Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00032%dw^[4677]; yield = 0.00019%dw^[4741]). Ref: 4677, 4741.

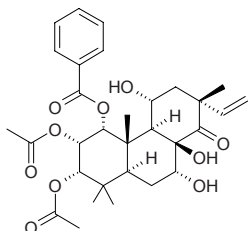
**16224 Orthosiphol F**

$C_{38}H_{44}O_{11}$ (676.77). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 34.5 \mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0 \mu mol/L$; Polymixin B, $IC_{50} = 27.8 \mu g/mL$). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0106%dw). Ref: 4677.

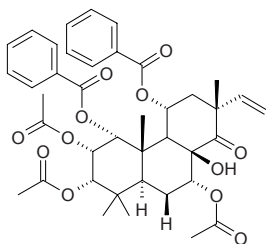


16225 Orthosiphol G

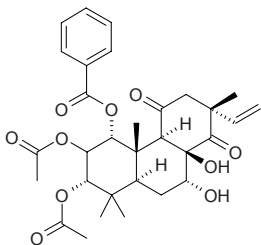
$C_{31}H_{40}O_{10}$ (572.66). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC_{50} = 145 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L; Polymixin B, IC_{50} = 27.8 μ g/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0010%dw). **Ref:** 4677.

**16226 Orthosiphol H**

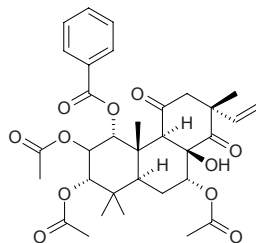
$C_{40}H_{46}O_{12}$ (718.81). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC_{50} = 24.1 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L, Polymixin B, IC_{50} = 27.8 μ g/mL, Dexamethasone IC_{50} = 170 μ mol/L). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

**16227 Orthosiphol I**

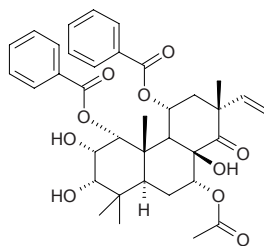
$C_{31}H_{38}O_{10}$ (570.64). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC_{50} = 102 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L; Polymixin B, IC_{50} = 27.8 μ g/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00036%dw). **Ref:** 4677.

**16228 Orthosiphol J**

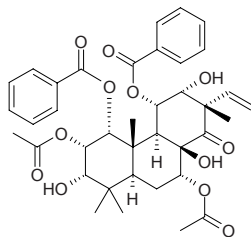
$C_{33}H_{40}O_{11}$ (612.68). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC_{50} = 66.3 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L; Polymixin B, IC_{50} = 27.8 μ g/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00014%dw). **Ref:** 4677.

**16229 Orthosiphol K**

2-*O*-Deacetylorthosiphol A; 3-*O*-Deacetylorthosiphol B $C_{36}H_{42}O_{10}$ (634.73). Colorless amorphous solid, $[\alpha]_D^{25}$ = -18.8° (c = 0.08, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC_{50} = 27.3 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L, Polymixin B, IC_{50} = 27.8 μ g/mL, Dexamethasone IC_{50} = 170 μ mol/L)^[4322]; Cytotoxic (antiproliferative, Colon26-L5, ED_{50} = 13.8 μ g/mL, control 5-Fluorouracil, ED_{50} = 0.015 μ g/mL; HT1080, ED_{50} = 21.8 μ g/mL, 5-Fluorouracil, ED_{50} = 0.48 μ g/mL)^[3053]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0016%dw^[3053]; yield = 0.00032%dw^[4741]). **Ref:** 4322, 3053, 4741.

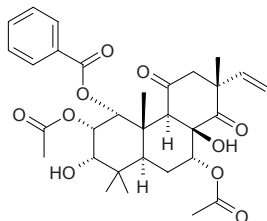
**16230 Orthosiphol L**

12-Hydroxyorthosiphol A $C_{38}H_{44}O_{12}$ (692.77). Colorless amorphous solid, $[\alpha]_D^{25}$ = -68.1° (c = 0.11, $CHCl_3$). **Pharm:** Cytotoxic (antiproliferative, Colon26-L5, ED_{50} = 24.7 μ g/mL, control 5-Fluorouracil, ED_{50} = 0.015 μ g/mL; HT1080, ED_{50} = 20.6 μ g/mL, 5-Fluorouracil, ED_{50} = 0.48 μ g/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0033%dw). **Ref:** 3053.

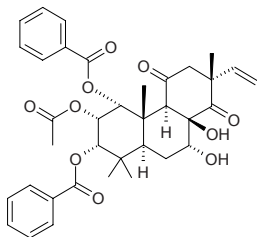


16231 Orthosiphol M

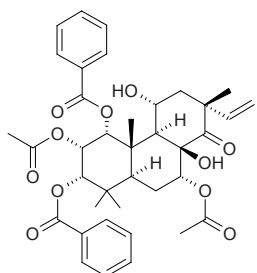
3-*O*-Deacetylorthosiphol J C₃₁H₃₈O₁₀ (570.64). Colorless amorphous solid, $[\alpha]_D^{25} = -50.0^\circ$ ($c = 0.06$, CHCl₃). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ > 200 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L, Polymixin B, IC₅₀ = 27.8 μg/mL, Dexamethasone IC₅₀ = 170 μmol/L)^[4322]; Cytotoxic (antiproliferative, Colon26-L5, ED₅₀ = 31.3 μg/mL, control 5-Fluorouracil, ED₅₀ = 0.015 μg/mL; HT1080, ED₅₀ = 81.7 μg/mL, 5-Fluorouracil, ED₅₀ = 0.48 μg/mL)^[3053]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0037%dw^[3053]; yield = 0.0022%dw^[4741]). **Ref:** 4322, 3053, 4741.

**16232 Orthosiphol N**

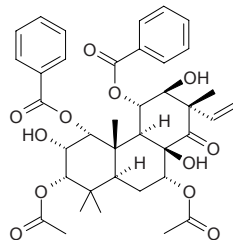
3-*O*-Benzoyl-7-*O*-deacetylorthosiphol M C₃₆H₄₀O₁₀ (632.71). Colorless amorphous solid, $[\alpha]_D^{25} = -67.3^\circ$ ($c = 0.38$, CHCl₃). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 35.9 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L, Polymixin B, IC₅₀ = 27.8 μg/mL, Dexamethasone IC₅₀ = 170 μmol/L)^[4322]; Cytotoxic (antiproliferative, Colon26-L5, ED₅₀ = 35.1 μg/mL, control 5-Fluorouracil, ED₅₀ = 0.015 μg/mL; HT1080, ED₅₀ = 18.6 μg/mL, 5-Fluorouracil, ED₅₀ = 0.48 μg/mL)^[3053]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0073%dw^[3053]; yield = 0.0020%dw^[4741]). **Ref:** 4322, 3053, 4741.

**16233 Orthosiphol O**

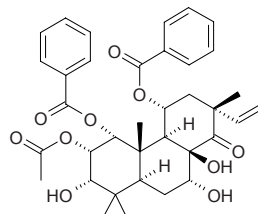
C₃₈H₄₄O₁₁ (676.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC₅₀ = 27.7 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L; Polymixin B, IC₅₀ = 27.8 μg/mL)^[4677]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0028%dw^[4677]; yield = 0.00036%dw^[4741]). **Ref:** 4677, 4741.

**16234 Orthosiphol R**

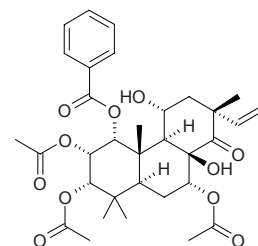
C₃₈H₄₄O₁₂ (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC₅₀ = 35.7 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L; Polymixin B, IC₅₀ = 27.8 μg/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00008%dw). **Ref:** 4677.

**16235 Orthosiphol T**

C₃₆H₄₂O₁₀ (634.73). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC₅₀ = 35.9 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L; Polymixin B, IC₅₀ = 27.8 μg/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00039%dw). **Ref:** 4677.

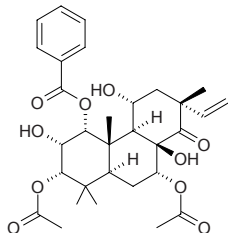
**16236 Orthosiphol U**

C₃₃H₄₂O₁₁ (614.7). Colorless amorphous solid, $[\alpha]_D^{25} = -170.0^\circ$ ($c = 0.161$, CHCl₃). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, IC₅₀ = 59.7 μmol/L; control *L*-NMMA, IC₅₀ = 26.0 μmol/L; Polymixin B, IC₅₀ = 27.8 μg/mL). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00079%dw). **Ref:** 4677.

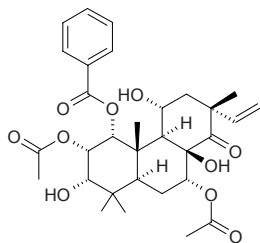


16237 Orthosiphol V

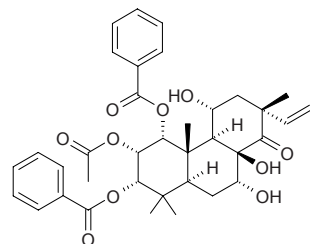
$C_{31}H_{40}O_{10}$ (572.66). Colorless amorphous solid, $[\alpha]_D^{25} = -63.4^\circ$ ($c = 0.028$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 54.5\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00004%dw). **Ref:** 4677.

**16238 Orthosiphol W**

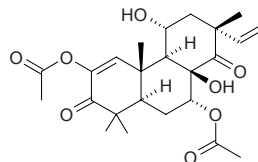
$C_{31}H_{40}O_{10}$ (572.66). Colorless amorphous solid, $[\alpha]_D^{25} = -99.2^\circ$ ($c = 0.025$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 57.6\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00010%dw). **Ref:** 4677.

**16239 Orthosiphol X**

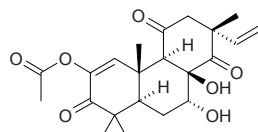
$C_{36}H_{42}O_{10}$ (634.73). Colorless amorphous solid, $[\alpha]_D^{25} = -376.8^\circ$ ($c = 0.029$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 6.4\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$)^[4677]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00054%dw^[4677]; yield = 0.0015%dw^[4741]). **Ref:** 4677, 4741.

**16240 Orthosiphol Y**

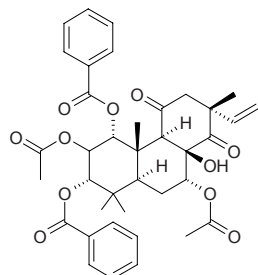
$C_{24}H_{32}O_8$ (448.52). Colorless amorphous solid, $[\alpha]_D^{25} = -55.54^\circ$ ($c = 0.033$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 37.9\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$)^[4677]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00005%dw^[4677]; yield = 0.000068%dw^[4741]). **Ref:** 4677, 4741.

**16241 Orthosiphol Z**

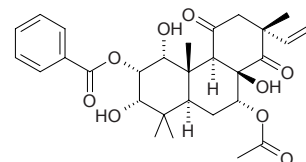
$C_{22}H_{28}O_7$ (404.46). Colorless amorphous solid, $[\alpha]_D^{25} = -120.7^\circ$ ($c = 0.025$, $CHCl_3$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00002%dw). **Ref:** 4677.

**16242 Orthosiphonone A**

$C_{38}H_{42}O_{11}$ (674.75). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 32.1\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$)^[4677]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0018%dw^[4677]; yield = 0.00038%dw^[4741]). **Ref:** 4677, 4741.

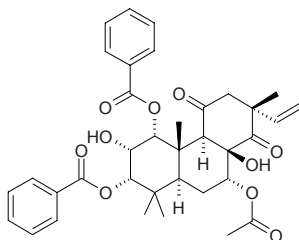
**16243 Orthosiphonone C**

$C_{29}H_{36}O_9$ (528.6). Colorless amorphous solid, $[\alpha]_D^{25} = -117.7^\circ$ ($c = 0.093$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 81.8\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 35.7\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00011%dw). **Ref:** 4741.

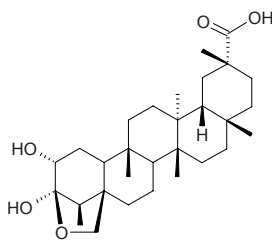


16244 Orthosiphonone D

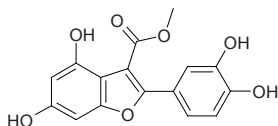
$C_{36}H_{40}O_{10}$ (632.71). Colorless amorphous solid, $[\alpha]_D^{25} = -105.3^\circ$ ($c = 0.393$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 35.0\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 35.7\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00018%dw). **Ref:** 4741.

**16245 Orthosphenic acid**

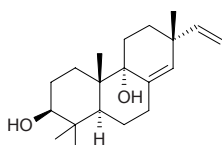
[86632-20-4] $C_{30}H_{48}O_5$ (488.71). Pale yellow crystals, mp 298~300°C, mp 330°C (double mp). **Pharm:** DPPH free radical scavenger inactive (for 40 $\mu\text{mol/L}$ DPPH radical, $SC_{50} > 40\mu\text{mol/L}$)^[4378]. **Source:** HEI MAN *Tripterygium regelii*, LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), *Orthosphenia mexicana*. **Ref:** 1572, 2798, 2799, 4378.

**16246 Oryzafuran**

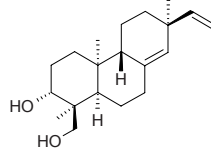
2-(3,4-Dihydroxyphenyl)-4,6-dihydroxybenzofuran-3-carboxylic acid methyl ester $C_{16}H_{12}O_7$ (316.27). Pale brown needles (MeOH), mp 251~252°C. **Pharm:** Antioxidant (DPPH scavenger, $EC_{50} = (1.58 \pm 0.01)\mu\text{g/mL}$, control Ascorbic acid, $EC_{50} = (3.35 \pm 0.01)\mu\text{g/mL}$). **Source:** HEI SE MI PI KANG *Oryza sativa* cv. **Ref:** 2565.

**16247 Oryzalexin E**

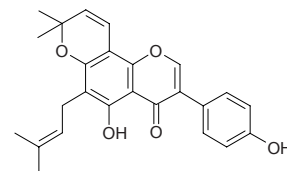
[150943-96-7] $C_{20}H_{32}O_2$ (304.48). Needles, mp 123~124°C, $[\alpha]_D^{25} = -26^\circ$ ($c = 0.10$, MeOH). **Pharm:** Antifungal (*Pyricularia oryzae*, $ED_{50} = 62.5\text{mg/L}$, plant antitoxin). **Source:** DAO CAO *Oryza sativa*. **Ref:** 2842.

**16248 Oryzalexin F**

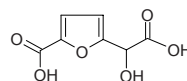
[156551-07-4] $C_{20}H_{32}O_2$ (304.48). Needles, mp 144~146°C, $[\alpha]_D^{20} = +16.4^\circ$ ($c = 0.61$, $CHCl_3$). **Pharm:** Antifungal (*Pyricularia oryzae*, $ED_{50} = 103\text{mg/L}$, plant antitoxin). **Source:** DAO CAO *Oryza sativa*. **Ref:** 2842.

**16249 Osajin**

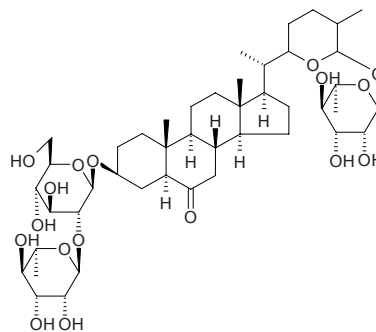
[482-53-1] $C_{25}H_{24}O_5$ (404.47). Lemon-yellow crystals (xylene or pet. ether), mp 194~195°C. **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*], FU MAO SHAN DOU GEN *Euchresta strigillosa*, PAN YUAN YU TENG *Derris scandens*, SANG CHENG *Maclura pomifera*, *Euchresta* spp. **Ref:** 1521, 2873.

**16250 Osbeckic acid**

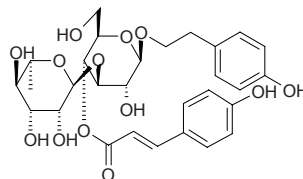
[112923-64-5] $C_7H_6O_6$ (186.12). Oil, $[\alpha]_D^{25} = +83.5^\circ$ ($c = 0.2$, MeOH). **Source:** JIN JIN XIANG *Osbeckia chinensis*. **Ref:** 2857.

**16251 Osladin**

[33650-66-7] $C_{45}H_{74}O_{17}$ (887.08). mp 198~199°C. **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 6.

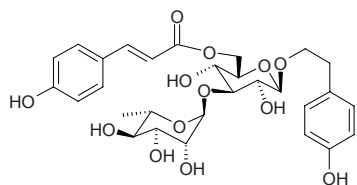
**16252 Osmanthuside B**

$C_{29}H_{36}O_{13}$ (592.60). **Pharm:** Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, $IC_{50} = 159.6\mu\text{mol/L}$; control Trolox, $IC_{50} = 101\mu\text{mol/L}$)^[4698]. **Source:** CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.0056%dw)^[4698], ROU CONG RONG *Cistanche deserticola*. **Ref:** 2448, 4698.

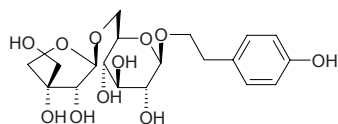


16253 Osmanthuside B₆

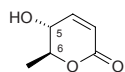
C₂₉H₃₆O₁₃ (592.6). **Pharm:** Antioxidant (antihemolysis, *in vitro*, AAPH-induced hemolysis of RBC, IC₅₀ = 91.7 μmol/L; control Trolox, IC₅₀ = 101 μmol/L). **Source:** CU ZHUANG NV ZHEN *Ligustrum robustum* (leaf: yield = 0.0092%dw). **Ref:** 4698.

**16254 Osmanthuside H**

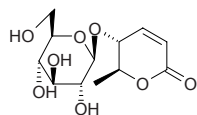
2-(4-Hydroxyphenyl)ethyl-*O*-β-*D*-apiofuranosyl-(1"→6')-β-*D*-glucopyranoside
C₁₉H₂₈O₁₁ (432.43). **Source:** DA XUE TENG *Sargentodoxa cuneata* (stem). **Ref:** 5337.

**16255 5*R*,6*S*-Osmundalactone**

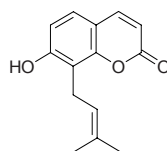
[69308-39-0] C₆H₈O₃ (128.13). Plates (C₆H₆) or needles, mp 82~82.5°C, [α]_D²² = -70.6° (c = 2.0, H₂O). **Source:** ZI QI *Osmunda japonica*. **Ref:** 1521, 2886.

**16256 Osmundalin**

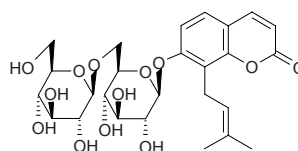
[54835-71-1] C₁₂H₁₈O₈ (290.27). **Source:** OU ZI QI *Osmunda ragalis*, ZI QI *Osmunda japonica*. **Ref:** 1521, 2887.

**16257 Osthenol**

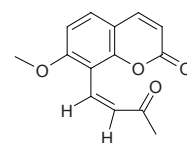
[484-14-0] C₁₄H₁₄O₃ (230.27). **Pharm:** Antifungal (*Aspergillus niger*, *Colletotrichum gloeosporioides*, *Curvularia* sp., and *Penicillium* sp.); antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 mol ratio/32 pmol TPA, EBV-EA-positive cells = (12.8±2.0)% (viability = 70%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability >80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability >80%); IC₅₀ = 131 mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400 mol ratio/32 pmol TPA, Curcumin IC₅₀ = 341 mol ratio/32 pmol TPA)^[5048]. **Source:** QIANG HUO *Notopterygium incisum*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00013%dw)^[4722], *Citrus rugulosa*, *Citrus sulcata*, *Citrus tamurana*, *Citrus hassaku*. **Ref:** 2, 1846, 4722, 5048.

**16258 Osthenol-7-*O*-β-gentiobioside**

C₂₆H₃₄O₁₃ (554.55). Amorphous powder, [α]_D²⁴ = -48°. **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ = 16.3 μg/mL = 29.4 μmol/L, control Ascorbic acid, EC₅₀ = 1.6 μg/mL = 9.1 μmol/L)^[4154]. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit), BEI SHA SHEN *Glehnia littoralis* (underground part). **Ref:** 2846, 3525, 4154.

**16259 *cis*-Osthenone**

C₁₄H₁₂O₄ (244.25). **Oil.** **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 2810.

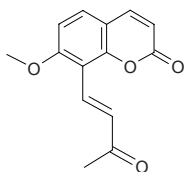


16260 trans-Osthenone

Osthenon [112789-90-9] C₁₄H₁₂O₄ (244.25). Prisms (Et₂O), mp 134–136°C.

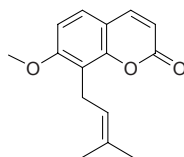
Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (13.3±1.3)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound IC₅₀ = 173mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin, IC₅₀ = 341mol ratio/32 pmol TPA)^[5048].

Source: CHENG ZI *Citrus junos*, LI HUA JU *Citrus tachibana*, ZHONG HUA JIU LI XIANG *Murraya exotica*, *Citrus rugulosa*, *Citrus sulcata*, *Citrus taurana*, *Citrus hassaku*. **Ref:** 2809, 5048.

**16261 Osthol**

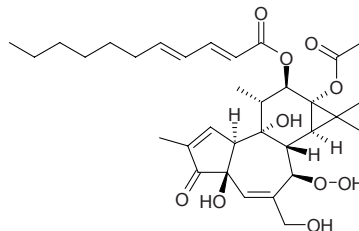
7-Methoxy-8-(3-methyl-2-butenyl)-2H-1-benzopyran-2-one [484-12-8]

C₁₅H₁₆O₃ (244.29). mp 83–84°C, bp 145–150°C. **Pharm:** Antibacterial (broad spectrum); antihypertensive (cat, 10mg/kg and 20mg/kg, lowers arterial pressure by 30% in 1h and 50% in 2h); antimalarial; antimutagenic; increases blood pressure and enhances myocardial contractility (rat, 1–2mg/kg); cytotoxic (24h: HL-60, IC₅₀ = 14.9μg/mL, control Adriamycin IC₅₀ < 0.10μg/mL; P₃₈₈, IC₅₀ = 9.3μg/mL, Adriamycin IC₅₀ < 0.10μg/mL; Colon205, IC₅₀ = 29.9μg/mL, Adriamycin IC₅₀ = 0.63μg/mL; HeLa, IC₅₀ = 31.7μg/mL, Adriamycin IC₅₀ = 0.15μg/mL)^[5486]; cytotoxic (12h: HL-60, IC₅₀ = 24.4μg/mL, control Adriamycin IC₅₀ = 0.18μg/mL; primary culture hmn PBMCs, IC₅₀ = 40.1μg/mL, SI = 1.6, Adriamycin IC₅₀ = 0.54μg/mL, SI = 3.3)^[5486]; LD₅₀ (mus, sc) = 16mg/kg. **Source:** BA JIAO HUANG PI *Clausena anisata*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*] (root: content scope of 34 batch samples = 0.02%–3.26%, mean content = 0.88%^[5508]), JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], OU QIAN HU *Peucedanum ostruthium*, SHE CHUANG ZI *Cnidium monnieri* (ripe seed: content scope = 2.0%–3.0%^[5501], mean content of 26 origins = 1.53%^[5508]), SHUAN CHI QIN *Prangos pabularia*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, YUAN DANG GUI *Angelica archangelica*, YUN QIAN HU *Peucedanum rubricaula*, *Citrus* sp., *Clausena* sp. **Ref:** 4, 6, 11, 177, 344, 658, 5486, 5501, 5508.

**16262 Ostodin**

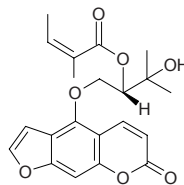
[85527-84-0] C₃₃H₄₆O₁₀ (602.73). Resin, [α]_D²⁵ = +21.4° (c = 0.14, CHCl₃).

Pharm: Cytotoxic (P₃₈₈ *in vitro*, ED₅₀ = 0.055μg/mL). **Source:** YUAN ZHUI HUA YE LUN MU *Ostodes paniculata*. **Ref:** 2918.

**16263 Ostruhol**

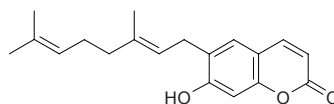
[642-08-0] C₂₁H₂₂O₇ (386.41). Crystals (C₆H₆), mp 136–137°C, [α]_D¹⁵ = –18.3°

(pyridine); [α]_D²⁰ = +5.9° (c = 0.509, CHCl₃). **Pharm:** Calcium channel blocker; vasodilator (rbt main artery, with Ca, inhibits contraction caused by KCl). **Source:** E SHEN *Anthriscus sylvestris*, GAO SHAN YAN SHEN *Cicerbita alpina*, HOU GUO DANG GUI *Angelica pachycarpa*, LIN BAI ZHI *Angelica sylvestris*, OU QIAN HU *Peucedanum ostruthium*, YUAN DANG GUI *Angelica archangelica*, ZHAO ZE QIAN HU *Peucedanum palustre*, *Peucedanum hispanicum*. **Ref:** 1035, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2855.

**16264 Ostruthin**

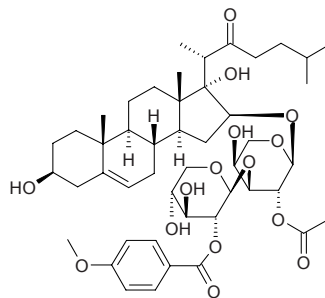
[148-83-4] C₁₉H₂₂O₃ (298.39). **Pharm:** Antibacterial (*Staphylococcus aureus*);

antifungal (*Saccharomyces cerevisiae*). **Source:** OU QIAN HU *Peucedanum ostruthium*. **Ref:** 658.

**16265 OSW-1**

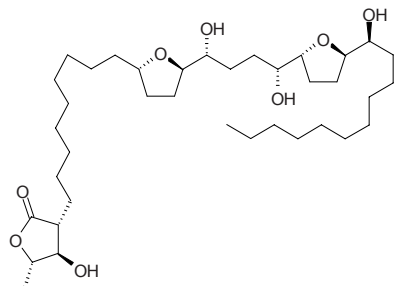
C₄₇H₆₈O₁₅ (873.06). **Pharm:** Cytotoxic (specific activity for cancer cells).

Source: *Ornithogalum saundersiae*. **Ref:** 2165.

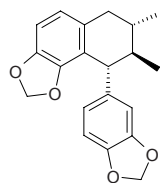


16266 Otivarin

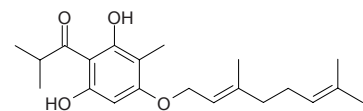
Dihydrocherimolin [92280-15-4] $C_{37}H_{68}O_8$ (640.95). $[\alpha]_D^{20} = +13^\circ$ ($c = 0.15$, MeOH). **Pharm:** Antiparasite (*Molinema dessetoe* infectivity larvae); cytotoxic (KB $ED_{50} = 0.001\text{--}0.0001\mu\text{g/mL}$, Vero $ED_{50} = 0.01\text{--}0.001\mu\text{g/mL}$); NADH ubiquinone reductase inhibitor (mitochondria, with bigger protein-dependent titre). **Source:** MAO YE FAN LI ZHI *Annona cherimolia*. **Ref:** 2813, 1548.

**16267 Otobain**

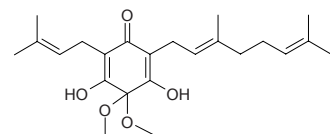
[3738-01-0] $C_{20}H_{20}O_4$ (324.38). **Pharm:** Antifungal. **Source:** AO TUO ROU DOU KOU *Myristica otoba*, FEI LV BIN ROU DOU KOU *Myristica simiarum*. **Ref:** 658.

**16268 Otogirin**

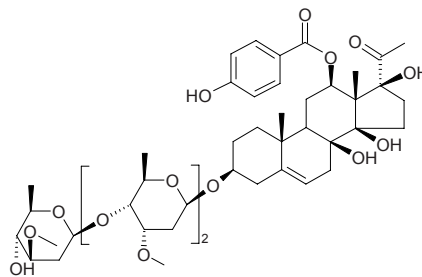
[137251-97-9] $C_{21}H_{30}O_4$ (346.47). Crystals, mp 66–68°C. **Pharm:** Antibacterial; Antiallergic (gpg, leukotriene D_4 antagonist, at 100 $\mu\text{mol/L}$ inhibits tracheal smooth muscle contraction induced by leukotriene D_4 , InRt = 50%; TXA_2 antagonist, at 100 $\mu\text{mol/L}$ inhibits tracheal smooth muscle contraction induced by TXA_2 , InRt = 50.9%); antiviral (herpetic stomatitis RNA virus, herpes simplex virus 1 DNA virus). **Source:** XIAO LIAN QIAO *Hypericum erectum* (root and flowers). **Ref:** 2877, 2878.

**16269 Otogirone**

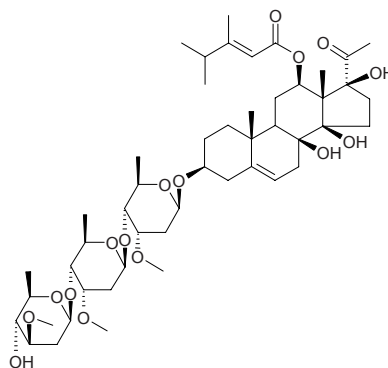
[137201-18-4] $C_{23}H_{34}O_5$ (390.52). **Oil.** **Pharm:** Antibacterial; Antiallergic (gpg, leukotriene D_4 antagonist, at 20 $\mu\text{mol/L}$ inhibits tracheal smooth muscle contraction induced by leukotriene D_4 , InRt = 94.9%; TXA_2 antagonist, at 20 $\mu\text{mol/L}$ inhibits tracheal smooth muscle contraction induced by TXA_2 , InRt = 63.6%). **Source:** XIAO LIAN QIAO *Hypericum erectum* (flowers). **Ref:** 2877, 2878.

**16270 Otophyllside A**

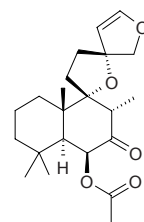
$C_{49}H_{72}O_{17}$ (933.11). **Source:** QING YANG SHEN *Cynanchum otophyllum*. **Ref:** 2902.

**16271 Otophyllside B**

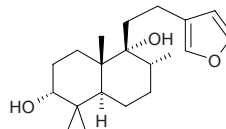
$C_{49}H_{78}O_{16}$ (923.16). **Source:** QING YANG SHEN *Cynanchum otophyllum*. **Ref:** 2902.

**16272 Otostegin A**

$C_{22}H_{32}O_5$ (376.50). Colorless needles (ether), mp 216.2–217.2°C, $[\alpha]_D^{22} = -117^\circ$ ($c = 0.08$, $CHCl_3$). **Source:** GUAN MU AO TUO SI TE CAO *Otostegia fruticosa* (aerial parts). **Ref:** 3984.

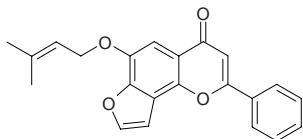
**16273 Otostegindiol**

15,16-Epoxy-3 α ,9 α -dihydroxy-labda-13(16),14-diene $C_{20}H_{32}O_3$ (320.48). White crystals (hexane), mp 124–125°C, $[\alpha]_{589nm}^{20} = +25^\circ$ ($c = 0.01$, methanol). **Source:** QUAN YUAN YE AO TUO SI TE CAO *Otostegia integrifolia* (leaf). **Ref:** 3823.

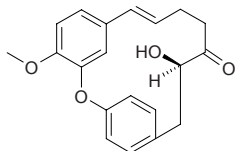


16274 Ovalifolin

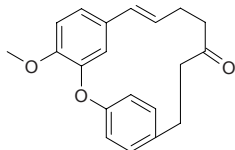
$C_{22}H_{18}O_4$ (346.39). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00030%dw). Ref: 4624.

**16275 Ovalifoliolatin A**

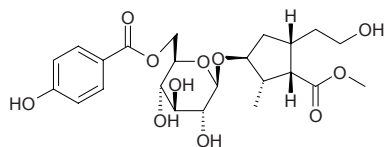
$C_{20}H_{20}O_4$ (324.38). Semisolid, $[\alpha]_D^{25} = -8.88^\circ$ ($c = 0.65$, MeOH). Pharm: Antibacterial (disk susceptibility tests, standard NCCLS method, 50 μ g/disk (control 30 μ g/disk), gram-positive bacteria: *Staphylococcus aureus*, DIZ = 9mm, positive control Kanamycin, DIZ = 10mm; *Bacillus subtilis*, DIZ = 11mm, Kanamycin, DIZ = 18mm; *Bacillus sphaericus*, DIZ = 11mm, Kanamycin, DIZ = 20mm; gram-negative bacteria: *Chromobacterium violaceum*, DIZ = 7mm, Kanamycin, DIZ = 17mm; *Klebsiella aerogenes*, DIZ = 8mm, Kanamycin, DIZ = 15mm; *Pseudomonas aeruginosa*, DIZ = 9mm, Kanamycin, DIZ = 27mm). Source: TUO YUAN YE RU XIANG SHU *Boswellia ovalifoliolata* (stem). Ref: 4380.

**16276 Ovalifoliolatin B**

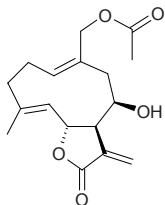
$C_{20}H_{20}O_3$ (308.38). Semisolid, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.15$, MeOH). Source: TUO YUAN YE RU XIANG SHU *Boswellia ovalifoliolata* (stem). Ref: 4380.

**16277 Ovatic acid methyl ester 7-O-(6'-O-p-hydroxybenzoyl)- β -D-glucopyranoside**

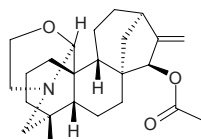
$C_{23}H_{32}O_{11}$ (484.50). Amorphous powder, $[\alpha]_D^{25} = -0^\circ$ ($c = 0.3$, MeOH). Source: ZI YE *Catalpa ovata* (leaf, fallen leaf). Ref: 3536, 4290.

**16278 Ovatifolin**

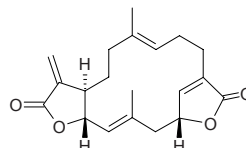
[50886-56-1] $C_{17}H_{22}O_5$ (306.36). Pharm: Antineoplastic; cytotoxic. Source: BING HUA JU *Podanthus ovatifolius*, MI TI BING HUA JU *Podanthus mitiqui*. Ref: 658.

**16279 Ovatine**

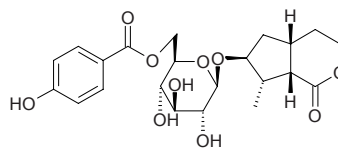
[68719-14-2] $C_{24}H_{35}NO_3$ (385.55). Pharm: Antineoplastic. Source: *Garrya ovata* var. *lindheimeri*. Ref: 658.

**16280 Ovatodiolide**

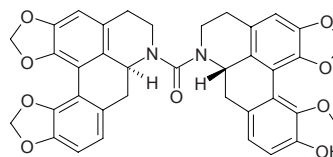
[3484-37-5] $C_{20}H_{24}O_4$ (328.41). Colorless prisms, mp 150–151°C, $[\alpha]_D^{23} = +21.8^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Cytotoxic (KB, $IC_{50} = 0.6\mu$ g/mL); antihypertensive (dig, action in short time, not inhibits ACE); inhibits myocardial contraction and calcium antagonist. Source: GUANG FANG FENG *Anisomeles indica* [Syn. *Epimeredi indica*]. Ref: 2899, 2866, 2900.

**16281 Ovatolactone 7-O-(6'-O-p-hydroxybenzoyl)- β -D-glucopyranoside**

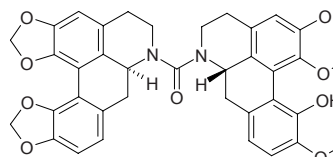
$C_{22}H_{28}O_{10}$ (452.46). Amorphous powder, $[\alpha]_D^{25} = -17.9^\circ$ ($c = 0.6$, MeOH). Source: ZI YE *Catalpa ovata* (leaf, fallen leaf). Ref: 3536, 4290.

**16282 (+)-Ovihernangerine**

[187530-46-7] $C_{37}H_{30}N_2O_9$ (646.66). Colorless prisms (MeOH), mp 194–196°C, $[\alpha]_D^{24} = +310^\circ$ ($c = 0.08$, $CHCl_3$). Pharm: Cytotoxic (P_{388} , $ED_{50} = 1.000\mu$ g/mL, A549, $ED_{50} = 1.570\mu$ g/mL, HT29, $ED_{50} = 10.227\mu$ g/mL, KB16, $ED_{50} = 0.239\mu$ g/mL). Source: SHUI LIAN YE TONG *Hernandia nymphaeifolia*. Ref: 2858.

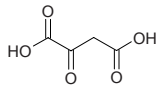
**16283 (+)-Oviisocorydine**

[187669-80-3] $C_{38}H_{34}N_2O_9$ (662.70). Colorless prisms (MeOH), mp 168–170°C, $[\alpha]_D^{24} = +254^\circ$ ($c = 0.08$, $CHCl_3$). Pharm: Cytotoxic (P_{388} , $ED_{50} = 1.489\mu$ g/mL, A549, $ED_{50} = 2.146\mu$ g/mL, HT29, $ED_{50} = 4.152\mu$ g/mL). Source: SHUI LIAN YE TONG *Hernandia nymphaeifolia*. Ref: 2858.

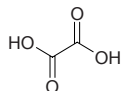


16284 Oxalacetic acid

2-Oxobutanedioic acid [328-42-7] C₄H₄O₅ (132.07). mp 189.5°C. Source: GUI JIAN YU *Euonymus alatus*. Ref: 6.

**16285 Oxalic acid**

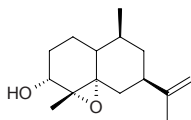
[144-62-7] C₂H₂O₄ (90.04). mp 189.5°C. Pharm: Toxin (paralysis of nervous system). Source: BAI BU *Stemona tuberosa*, BO CAI *Spinacia oleracea*, CU LIU GUO *Hippophae rhamnoides*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], MU ZEI MA HUANG *Ephedra equisetina*, *Ephedra equisetina*, SHAN ZHA *Crataegus pinnatifida*, SHI YONG DA HUANG *Rheum raphaniticum*, YI ZHU QIAN MA *Urtica dioica*, *Oxalis* sp. Ref: 2, 6, 658, 660.

**16286 2-Oxazolidinethione**

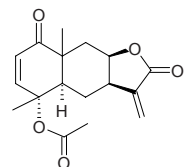
[5840-81-3] C₃H₅NOS (103.14). Source: MA BING LANG *Capparis masaikai*. Ref: 2943.

**16287 4α,5α-Oxidoeudesm-11-en-3α-ol**

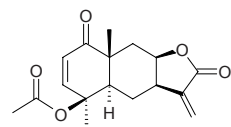
C₁₅H₂₄O₂ (236.36). Source: XIANG FU *Cyperus rotundus*. Ref: 2840.

**16288 1-Oxo-4α-acetoxyeudesma-2,1(13)-dien-12,8β-olide**

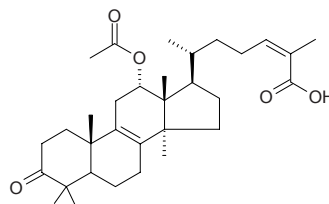
C₁₇H₂₀O₅ (304.35). Source: AI YE *Artemisia argyi*. Ref: 1288.

**16289 1-Oxo-4β-acetoxyeudesma-2,1(13)-dien-12,8β-olide**

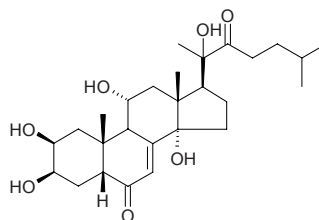
C₁₇H₂₀O₅ (304.35). Source: AI YE *Artemisia argyi*. Ref: 1288.

**16290 (24Z)-3-Oxo-12α-acetoxylanosta-8,24-dien-26-oic acid**

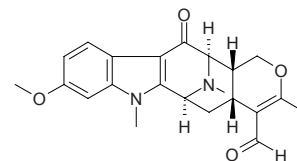
C₃₂H₄₈O₅ (512.74). Pharm: Antineoplastic; anti-HIV. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2523.

**16291 22-Oxo-ajugasterone C**

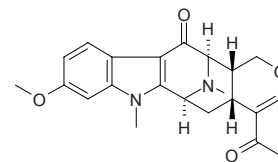
2β,3β,11β,14β,20-Pentahydroxy-cholest-7-en-6,22-dione C₂₇H₄₂O₇ (478.63). White crystals (MeOH), mp 213°C. Source: ZHEN ZHU LU SHUI CAO *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*]. Ref: 2475.

**16292 6-Oxoalstophyllal**

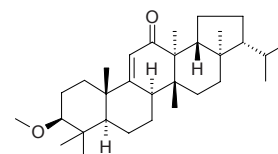
C₂₂H₂₄N₂O₄ (380.45). Light yellowish oil, [α]_D = +31° (c = 0.08, CHCl₃). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0003%). Ref: 3020.

**16293 6-Oxoalstophylline**

C₂₂H₂₄N₂O₄ (380.45). Light yellowish oil, [α]_D = +31° (c = 0.08, CHCl₃). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.00005%). Ref: 3020.

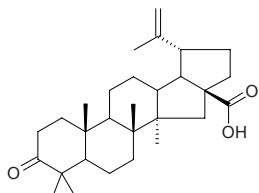
**16294 12-Oxoarundoin**

[In DNP] C₃₁H₅₀O₂ (454.74). Source: MAO CAO YE *Imperata cylindrica* var. *major*. Ref: 6.

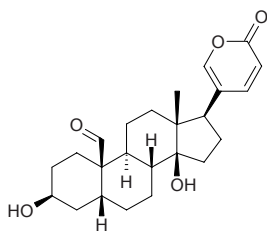


16295 3-Oxobetulinic acid

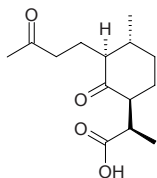
$C_{29}H_{44}O_3$ (440.67). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 660.

**16296 19-Oxobufalin**

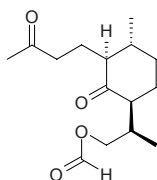
$C_{24}H_{32}O_5$ (400.52). Colorless solid, $[\alpha]_D^{21} = +7.0^\circ$ ($c = 0.1$, CH_3OH). Pharm: Cytotoxic (*in vitro*, HL-60, $IC_{50} < 0.01 \mu g/mL$; MH-60, $IC_{50} > 25 \mu g/mL$; BXPC3, $IC_{50} = 0.014 \mu g/mL$; MCF7, $IC_{50} = 0.0072 \mu g/mL$; SF268, $IC_{50} = 0.0047 \mu g/mL$; NCI-H460, $IC_{50} = 0.018 \mu g/mL$; KM20L2, $IC_{50} = 0.0082 \mu g/mL$; DU145, $IC_{50} = 0.0046 \mu g/mL$). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 3082.

**16297 1-Oxo-2β-[3-butanone]-3α-methyl-6β-[2-propanoic acid]-cyclohexane**

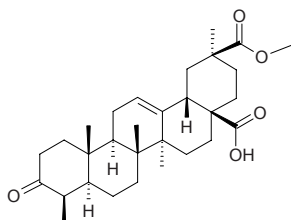
$C_{14}H_{22}O_4$ (254.33). Colorless oil, $[\alpha]_D = -36.7^\circ$ ($c = 1.2$, $CHCl_3$). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**16298 1-Oxo-2β-[3-butanone]-3α-methyl-6β-[2-propanol formylester]-cyclohexane**

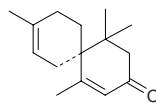
$C_{15}H_{24}O_4$ (268.36). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**16299 3-Oxo-30-carbomethoxy-23-norolean-12-en-28-oic acid**

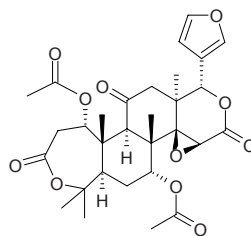
$C_{30}H_{44}O_5$ (484.68). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 2960.

**16300 ent-9-Oxo-α-chamigrene**

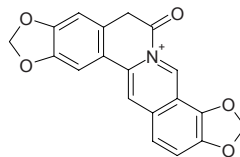
Laurenconone C [61661-47-0] $C_{15}H_{22}O$ (218.34). Oil, $[\alpha]_D = -43^\circ$ ($c = 1$, $CHCl_3$). Source: DI SUO LUO *Marchantia polymorpha*, DUN XING AO DING ZAO *Laurencia obtusa*. Ref: 1521, 1244.

**16301 11-Oxocneorin G**

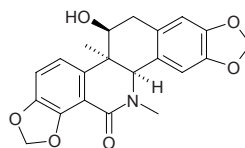
$C_{30}H_{36}O_{11}$ (572.61). Colorless prisms ($CHCl_3$ -MeOH), mp 274–276°C, $[\alpha]_D^{23} = +126^\circ$ ($c = 0.1$, $CHCl_3$). Source: ZHONG GUO YANG CHUN *Cedrela sinensis* (leaf). Ref: 3883.

**16302 8-Oxocoptisine**

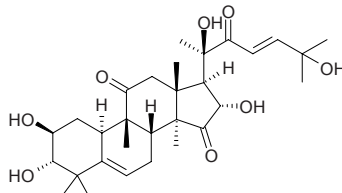
$C_{19}H_{12}NO_5$ (334.31). Source: BAI QU CAI *Chelidonium majus*. Ref: 2901.

**16303 6-Oxocorynoline**

[55739-71-4] $C_{21}H_{19}NO_6$ (381.39). mp > 295°C. Source: ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 2829.

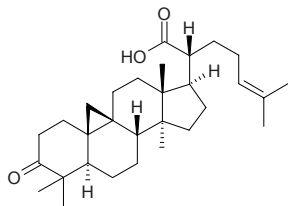
**16304 15-Oxo-cucurbitacin F**

[154346-63-1] $C_{30}H_{44}O_8$ (532.68). Colorless needles (MeOH), mp 223–226°C, $[\alpha]_D^{26} = +57.5^\circ$ ($c = 0.43$, $CHCl_3$). Pharm: Inhibits promotor of cancer (inhibits activity of EBV early antigen EBV-EA induced by TPA); anti-HIV-1 (inhibits reproduction of HIV-1 in H9 cell, $ED_{50} = 0.3 \mu g/mL$, therapy index = 17.0). Source: XUAN YA MEI GUI *Cowania mexicana*. Ref: 2922, 2923, 2924.

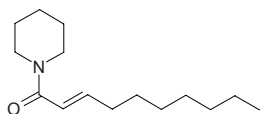


16305 3-Oxo-24-cycloarten-21-oic acid

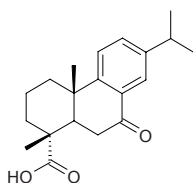
[125292-53-7] C₃₀H₄₆O₃ (454.70). Colorless crystals, mp 185~186°C, [α]_D²¹ = +18.7° (*c* = 1.16, CHCl₃). **Pharm:** Inhibits promotor of cancer (inhibits activity of EBV early antigen EBV-EA induced by TPA). **Source:** ZAI ZHONG LANG SE MU *Lansium domesticum*. **Ref:** 2874.

**16306 1-(1-Oxo-2E-decaenyl) piperidine**

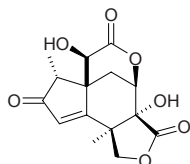
C₁₅H₂₇NO (237.39). **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00024%dw). **Ref:** 4753.

**16307 7-Oxodehydroabietic acid**

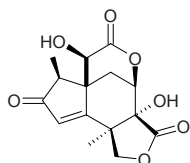
C₂₀H₂₆O₃ (314.43). **Source:** TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). **Ref:** 4054.

**16308 (1R)-2-Oxo-3,4-dehydroneomajucin**

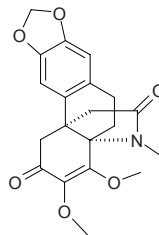
C₁₅H₁₆O₇ (308.29). **Source:** JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.0011%dw). **Ref:** 4621.

**16309 (1S)-2-Oxo-3,4-dehydroneomajucin**

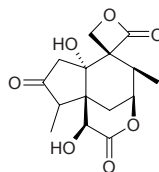
C₁₅H₁₆O₇ (308.29). **Source:** JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.0015%dw). **Ref:** 4621.

**16310 16-Oxodelavaine**

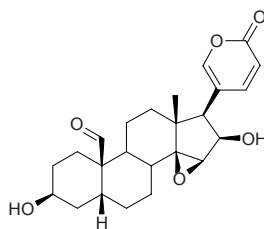
[38146-58-6] C₂₀H₂₁NO₆ (371.39). **Source:** DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*]. **Ref:** 6.

**16311 3-Oxo-6-deoxyneoisatin**

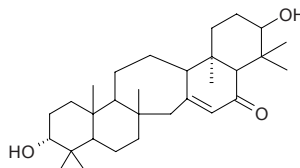
C₁₅H₁₈O₇ (310.31). **Source:** YUN NAN BA JIAO *Illicium simonsii*. **Ref:** 649.

**16312 19-Oxodesacetylcinobufagin**

C₂₄H₃₀O₆ (414.5). Colorless solid, [α]_D²¹ = +17.3° (*c* = 0.1, CH₃OH). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 0.65µg/mL; HL-60, IC₅₀ = 3µg/mL; MH-60, IC₅₀ > 25µg/mL; BXPC3, IC₅₀ > 1µg/mL; MCF7, IC₅₀ > 1µg/mL; SF268, IC₅₀ > 1µg/mL; NCI-H460, IC₅₀ > 1µg/mL; KM20L2, IC₅₀ > 1µg/mL; DU145, IC₅₀ > 1µg/mL). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 3082.

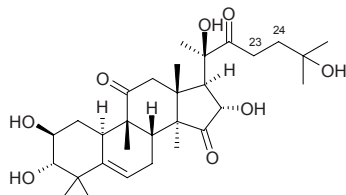
**16313 16-Oxodiepiserratenediol**

C₃₀H₄₈O₃ (456.72). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*], SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. **Ref:** 109, 1410, 2811.

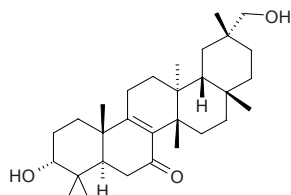


16314 15-Oxo-23,24-dihydrocucurbitacin F

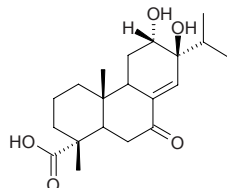
[154346-64-2] C₃₀H₄₆O₈ (534.70). Colorless needles (MeOH), mp 207~209°C, [α]_D²⁶ = +65.2° (c = 0.54, MeOH). **Pharm:** Inhibits promotor of cancer (inhibits activity of EBV early antigen EBV-EA induced by TPA); anti-HIV-1 (inhibits reproduction of HIV-1 in H9 cell, ED₅₀ = 2.5 µg/mL, therapy index = 15.2). **Source:** XUAN YA MEI GUI *Cowania mexicana*. **Ref:** 2922, 2923, 2924.

**16315 7-Oxodihydro karoundiol**

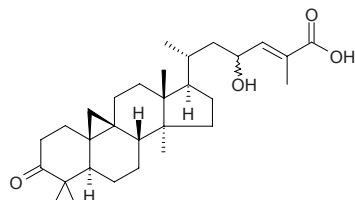
[143183-47-5] C₃₀H₄₈O₃ (456.72). mp 287~289°C (methanol-acetone). **Pharm:** Inhibits promotor of cancer (mus, inflammation caused by TPA, ID₅₀ = 0.3mg/ear) **Source:** GUA LOU *Trichosanthes kirilowii*. **Ref:** 933, 998.

**16316 7-Oxo-12α,13β-dihydroxyabi-8(14)-en-18-oic acid**

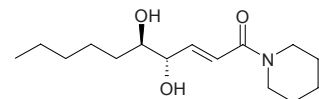
C₂₀H₃₀O₅ (350.46). White needles, mp 275~277°C, [α]_D²⁵ = +1.5° (c = 0.39, MeOH). **Source:** HUA SHAN SONG *Pinus armandii* (fruit). **Ref:** 4867.

**16317 3-Oxo-23-dihydroxycycloart-24-en-26-oic acid**

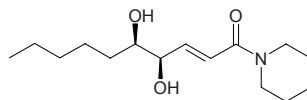
C₃₀H₄₆O₄ (470.70). It is a mixture of a known 3α, (R or S) Dihydroxycycloart-24-en-26-oic acid. **Source:** MANG GUO *Mangifera indica*. **Ref:** 1868.

**16318 (±)-erythro-1-(1-Oxo-4,5-dihydroxy-2E-decaenyl)piperidine**

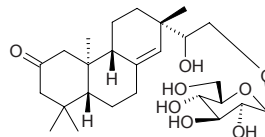
C₁₅H₂₇NO₃ (269.39). Colorless oil, [α]_D²⁵ = 0° (c = 0.8, CHCl₃). **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00027%dw). **Ref:** 4753.

**16319 (±)-threo-1-(1-Oxo-4,5-dihydroxy-2E-decaenyl)piperidine**

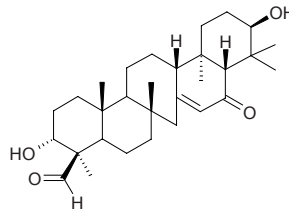
C₁₅H₂₇NO₃ (269.39). Colorless oil, [α]_D²⁵ = 0° (c = 0.9, CHCl₃). **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00017%dw). **Ref:** 4753.

**16320 ent-2-Oxo-15,16-dihoxypimar-8(14)-en-16-O-β-glucopyranoside**

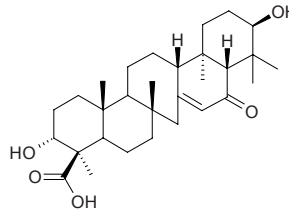
C₂₆H₄₂O₈ (482.62). White amorphous powder, [α]_D²⁰ = -51.7° (c = 1.58, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0027%). **Ref:** 4764.

**16321 16-Oxo-3α,21β-dihydroxserrat-14-en-24-al**

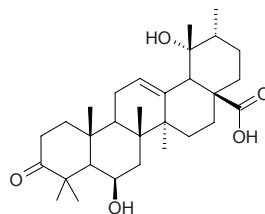
C₃₀H₄₆O₄ (470.7). Colorless prisms (CHCl₃-CH₃OH), mp 270~272°C, [α]_D²⁰ = -23.7° (c = 0.35, C₅D₅N). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000056%dw). **Ref:** 4729.

**16322 16-Oxo-3α,21β-dihydroxserrat-14-en-24-oic acid**

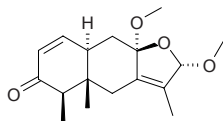
C₃₀H₄₆O₅ (486.7). White powder (CHCl₃-CH₃OH), mp 298~300°C, [α]_D²⁰ = +10.5° (c = 0.55, C₅D₅N). **Source:** QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000072%dw). **Ref:** 4729.

**16323 3-Oxo-6β,19α-dihydroxyurs-12-en-28-oic acid**

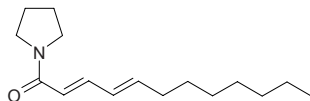
C₃₀H₄₆O₅ (486.70). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.



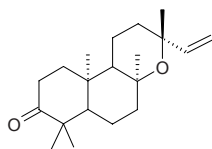
16324 3-Oxo-8 α ,12 α -dimethoxy-8,12-dihydro-10 α H-furanoeremophil-1-ene
 C₁₇H₂₄O₄ (292.38). Colorless oil. [Source](#): HUANG SE QIAN LI GUANG
Senecio flavus. [Ref](#): 2409.



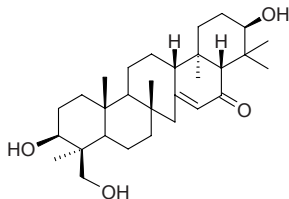
16325 1-(1-Oxo-2E,4E-dodadienyl)pyrrolidine
 C₁₆H₂₇NO (249.40). [Source](#): HU JIAO *Piper nigrum* (root: yield =
 0.0012%dw). [Ref](#): 4753.



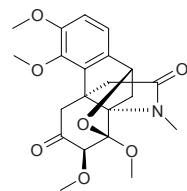
16326 ent-3-Oxo-13-epi-manoyl oxide
 C₂₀H₃₂O₂ (304.48). Colorless needles (MeOH), mp 122–124°C, [α]_D²⁵ =
 –36.0° (c = 0.36, CHCl₃). [Source](#): HAI QI *Excoecaria agallocha* (root). [Ref](#): 5114.



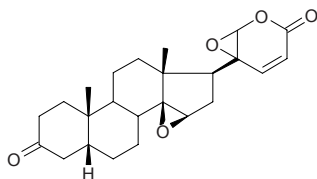
16327 16-Oxo-21-episerratrilol
 C₃₀H₄₈O₄ (472.71). [Source](#): PU DI WU GONG *Lycopodium cernuum*. [Ref](#): 1410.



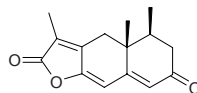
16328 Oxoepistephamsine
 [51804-68-3] C₂₁H₂₅NO₇ (403.44). Light-yellow prisms (MeOH), mp 228°C,
 [α]_D¹³ = +104.88° (c = 1.0, CHCl₃). [Source](#): QIAN JIN TENG *Stephania*
japonica. [Ref](#): 2872.



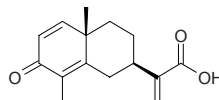
16329 3-Oxo-20S,21-epoxyresibufogenin
 C₂₄H₃₀O₅ (398.5). Colorless needles, mp 180–182°C, [α]_D²⁰ = +30.8° (c = 0.1,
 CHCl₃). [Pharm](#): Cytotoxic (*in vitro*, KB, IC₅₀ = 18.51 μ g/mL; MH-60, IC₅₀ =
 8.54 μ g/mL). [Source](#): CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*
 (dried secretion of skin glands: yield = 0.0048%dw). [Ref](#): 4634.



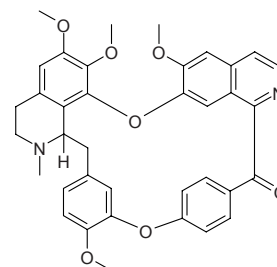
16330 2-Oxo-eremophil-1(10),7(11),8(9)-trien-12,8-olide
 C₁₅H₁₆O₃ (244.29). Yellowish needles (acetone), mp 149–150°C. [Source](#):
 KUAN SHE DU WU *Ligularia platyglossa* (root and rhizome). [Ref](#): 4911.



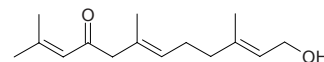
16331 3-Oxo-1,4,11(13)-trien-7 α H-12-oic acid
 [135594-80-8] C₁₅H₁₈O₃ (246.31). Gum, [α]_D = –80° (c = 0.36, CHCl₃).
[Source](#): BEI AI *Artemisia vulgaris*. [Ref](#): 2856.



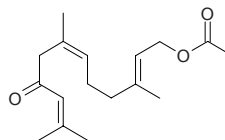
16332 Oxofangchirine
 [102516-53-0] C₃₇H₃₄N₂O₇ (618.69). Yellowish square crystals (acetone), mp
 184–186°C, [α]_D²⁰ = +47° (c = 0.42, chloroform). [Source](#): FANG JI *Stephania*
tetrandra. [Ref](#): 44.



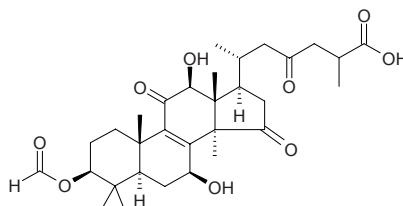
16333 9-Oxofarnesol
 C₁₅H₂₄O₂ (236.36). [Source](#): GAN SHU *Ipomoea batatas* [Syn. *Convolvulus*
batatas], ZHANG SHU YE *Cinnamomum camphora*. [Ref](#): 6.



16334 9-Oxofarnesyl acetate
 C₁₇H₂₆O₃ (278.39). [Source](#): ZHANG SHU YE *Cinnamomum camphora*. [Ref](#): 6.

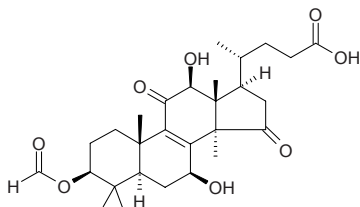


16335 3 β -Oxo-formyl-7 β ,12 β -dihydroxy-5 α -lanost-11,15,23-trioxo-8-en(E)-26-oic acid
 C₃₁H₄₄O₉ (560.69). White acicular crystals, mp 196–197°C, [α]_D²⁵ = +108° (c
 = 0.01, Me₂CO). [Source](#): LING ZHI *Ganoderma lucidum*. [Ref](#): 2163.



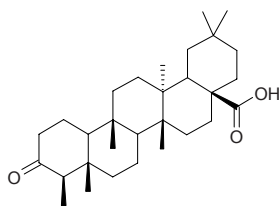
16336 3 β -Oxo-formyl-7 β ,12 β -dihydroxy-4,4,14 α -trimethyl-5 α -chol-11,15-dioxo-8-en(*E*)-24-oic acid

C₂₈H₄₀O₈ (504.63). White acicular crystals, mp 130~131°C, [α]_D²⁵ = +96° (c = 0.01, Me₂CO). Source: LING ZHI *Ganoderma lucidum*. Ref: 2163.



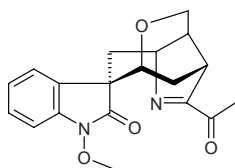
16337 3-Oxfriedelan-28-oic acid

C₃₀H₄₈O₃ (456.72). Pharm: Cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (9.4±2.8)μmol/L, control Etoposide, IC₅₀ = (0.5±0.2)μmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)μmol/L; KB cell, IC₅₀ = (8.3±2.4)μmol/L, Etoposide, IC₅₀ = (0.9±0.3)μmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)μmol/L; HT29 cell, IC₅₀ > 10μmol/L, Etoposide, IC₅₀ = (2.4±0.5)μmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)μmol/L). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.



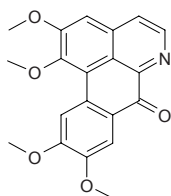
16338 19-Oxo-gelsenicine

19-Oxo-humantenmine C₁₉H₂₀N₂O₄ (340.38). mp 226~227°C. Source: GOU WEN *Gelsemium elegans*. Ref: 14.



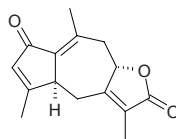
16339 Oxoglaucine

O-Methylatheroline; Noraporphine [5574-24-3] C₂₀H₁₇NO₅ (351.36). mp 225~227°C. Pharm: Antifungal (*Candida albicans*); cytotoxic (KB, ED₅₀ = 5.1μg/kg). Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*, JIAN LIE HAI YING SU *Glaucium oxylobum*, ZI FAN LI ZHI *Annona purpurea*. Ref: 5, 658.



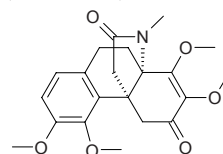
16340 (5 α ,8 α)-2-Oxo-1(10),3,7(11)-guaiatrien-12,8-olide

C₁₅H₁₆O₃ (244.29). Yellow amorphous solid, [α]_D²⁵ = +127.5° (c = 0.4, CHCl₃). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 8.8μmol/L; CYP2D6, IC₅₀ > 100μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082μmol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.00023%dw). Ref: 4797.



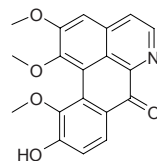
16341 16-Oxohasubanonine

[51804-70-7] C₂₁H₂₅NO₆ (387.44). Prisms (C₆H₆-Et₂O), mp 161°C, [α]_D²³ = -105.2° (c = 0.5, CHCl₃). Source: QIAN JIN TENG *Stephania japonica*. Ref: 2939.



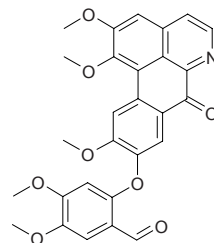
16342 7-Oxohermagine

C₁₉H₁₅NO₅ (337.34). Pharm: Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100μmol/L, positive control Suramin, IC₅₀ = 2.4μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.



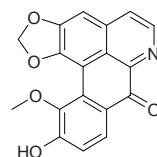
16343 Oxohernandaline

[187530-48-9] C₂₈H₂₃NO₈ (501.50). Yellowish prisms (alcohol), mp 197~199°C. Pharm: Cytotoxic (P₃₈₈, ED₅₀ = 12.569μg/mL, A549, ED₅₀ = 27.134μg/mL, KB16, ED₅₀ = 5.300μg/mL). Source: SHUI LIAN YE TONG *Hernandia nymphaeifolia*. Ref: 2858.



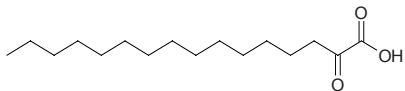
16344 7-Oxohermangerine

C₁₈H₁₁NO₅ (321.29). Pharm: Anti-HIV-1 (HIV-1 IN inhibitor, IC₅₀ = 18.2μmol/L, positive control Suramin, IC₅₀ = 2.4μmol/L). Source: DING HU DIAO ZHANG *Lindera chunii* (root). Ref: 4224.

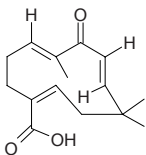


16345 2-Oxohexadecanoic acid

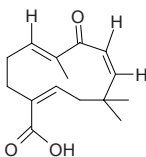
2-Oxopalmitic acid [2570-24-3] C₁₆H₃₀O₃ (270.42). Needles (petrol), mp 69.5°C. [Source](#): KONG SHI CHUN *Ulva pertusa*, *Porphyra* sp. [Ref](#): 2921.

**16346 8-Oxo- α -humula-6E,9E-dien-12-oic acid**

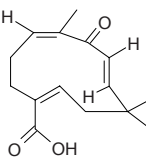
C₁₅H₂₀O₃ (248.32). [Source](#): *Asteriscus vogelii* (aerial parts). [Ref](#): 5123.

**16347 8-Oxo- α -humula-6E,9Z-dien-12-oic acid**

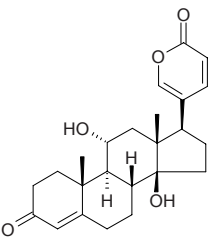
C₁₅H₂₀O₃ (248.32). [Source](#): *Asteriscus vogelii* (aerial parts). [Ref](#): 5123.

**16348 8-Oxo- α -humula-6Z,9Z-dien-12-oic acid**

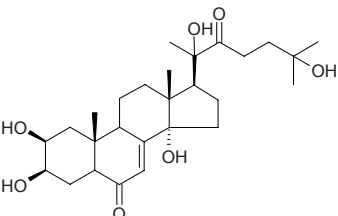
C₁₅H₂₀O₃ (248.32). [Source](#): *Asteriscus vogelii* (aerial parts). [Ref](#): 5123.

**16349 3-Oxo-11 α -hydroxy-12-dehydroxy-scilliphaeosidin***

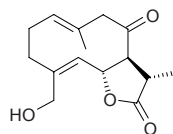
C₂₄H₃₀O₅ (398.50). Amorphous powder, [α]_D²⁴ = +32.0° (c = 0.28, MeOH). [Source](#): HAI CONG *Urginea maritima* (bulb). [Ref](#): 3513.

**16350 22-Oxo-20-hydroxyecdysone**

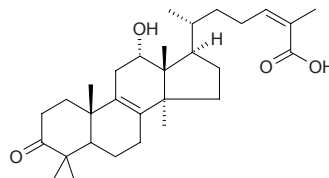
2 β ,3 β ,14 α ,20,25-Pentahydroxy-cholest-7-en-6,22-dione C₂₇H₄₂O₇ (478.63). White powder (MeOH), mp 102–106°C. [Source](#): ZHEN ZHU LU SHUI CAO *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*]. [Ref](#): 2475.

**16351 8-Oxo-15-hydroxygermacra-1(10),E,4Z-dien-11 β H-12,6 α -olide**

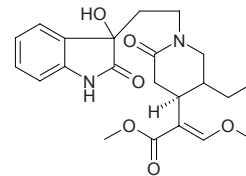
C₁₅H₂₀O₄ (264.32). Colorless oil, [α]_D = -393° (c = 2.76, CHCl₃). [Source](#): CU CAO SHI CHE JU *Centaurea aspera* ssp. *aspera* (aerial parts), XIA YE CU CAO SHI CHE JU *Centaurea aspera* subsp. *stenophylla* (aerial parts). [Ref](#): 5300.

**16352 (2Z)-3-Oxo-12 α -hydroxylanosta-8,24-dien-26-oic acid**

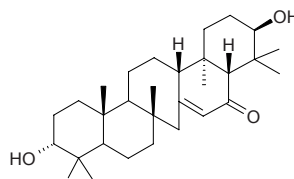
C₃₀H₄₆O₄ (470.70). [Pharm](#): Antineoplastic; anti-HIV. [Source](#): CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. [Ref](#): 2523.

**16353 3-Oxo-7-hydroxy-3,7-secorhynchophylline**

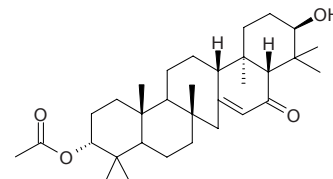
C₂₂H₂₈N₂O₆ (416.48). [Source](#): XIA GOU TENG *Uncaria attenuata*. [Ref](#): 5341.

**16354 16-Oxo-3 α -hydroxyserrat-14-en-21 β -ol**

C₃₀H₄₈O₃ (456.72). White powder (CHCl₃-CH₃OH), mp 314–316°C. [Source](#): QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000144%dw). [Ref](#): 4729.

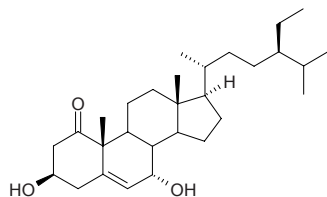
**16355 16-Oxo-21 β -hydroxyserrat-14-en-3 α -yl acetate**

C₃₂H₅₀O₄ (498.75). Colorless needles (CHCl₃), mp 270–274°C, [α]_D²⁰ = -24.1° (c = 0.47, CHCl₃). [Source](#): QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (whole herb: yield = 0.000092%dw). [Ref](#): 4729.

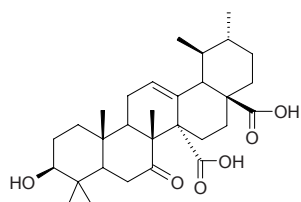


16356 1-Oxo-7 α -hydroxysitosterol

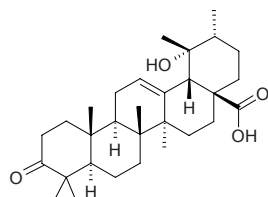
[194089-22-0] C₂₉H₄₈O₃ (444.70). [α]_D = +5.3° (*c* = 0.8, CHCl₃). **Pharm:** Cytotoxic (P₃₈₈, KB, edge activity) **Source:** JIAO ZHI SHU WEI CAO *Salvia glutinosa*. **Ref:** 2832.

**16357 7-Oxo-3 β -hydroxyurs-12-en-27,28-dioic acid**

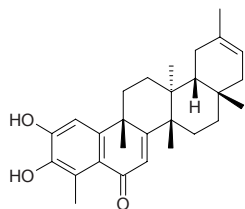
C₃₀H₄₄O₆ (500.68). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**16358 3-Oxo-19 α -hydroxyurs-12-en-28-oic acid**

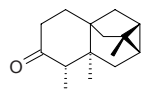
Pomonic acid C₃₀H₄₆O₄ (470.70). **Pharm:** Anti-androgenic (testosterone 5 α -reductase inhibitor, 50 μ g/mL, InRt = 35.60%, control Glabridine, 50 μ g/mL, InRt = 48.20%)^[4106]. **Source:** DI YU *Sanguisorba officinalis*, DUO SUI PO BU MU *Cordia multispicata* (leaf). **Ref:** 2955, 4106.

**16359 6-Oxo-iguesterol**

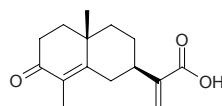
[182324-66-9] C₂₈H₃₆O₃ (420.60). Yellow paint-like amorphous solid, [α]_D²⁰ = +75.0° (*c* = 0.24, CHCl₃). **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 25 μ g/mL). **Source:** JIA NA LI MEI DENG MU *Maytenus canariensis*. **Ref:** 2800.

**16360 3-Oxoishwarane**

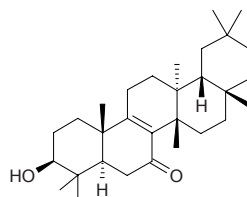
[41756-76-7] C₁₅H₂₂O (218.34). Crystals (pentane), mp 45~46°C. **Source:** QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*]. **Ref:** 1521, 2951.

**16361 3-Oxoisocostic acid**

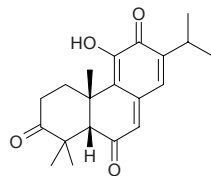
C₁₅H₂₀O₃ (248.32). **Source:** LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00021%dw). **Ref:** 4709.

**16362 7-Oxoismultiflorenol**

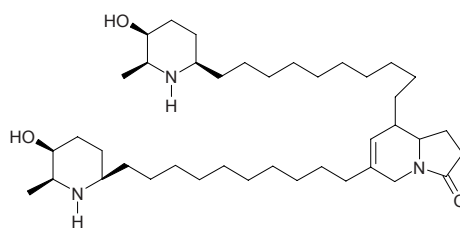
[142449-68-1] C₃₀H₄₈O₂ (440.72). mp 214~216°C, mp 202~205°C (MeOH-CHCl₃), [α]_D²³ = +35° (*c* = 0.26). **Pharm:** Anti-inflammatory (inflammation caused by TPA in mus, 0.5mg/ear, InRt = 96%, ID₅₀ = 0.2mg/ear). **Source:** BAN YE DI JIN *Euphorbia supina*, GUA LOU *Trichosanthes kirilowii*, MAO GUO DI JIN *Euphorbia chamaesyce*. **Ref:** 2903, 2904, 2905.

**16363 3-Oxoisotaxodione**

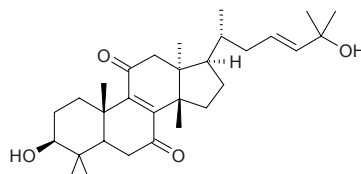
C₂₀H₂₄O₄ (328.41). Yellow gum, [α]_D²⁵ = -108.9° (*c* = 0.44, CHCl₃). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

**16364 3''''-Oxo-juliprosopine**

C₄₀H₇₃N₃O₃ (644.05). Colorless gum, [α]_D²³ = +4.0° (*c* = 1.0, MeOH). **Source:** MU DOU SHU *Prosopis juliflora* (leaf). **Ref:** 3778.

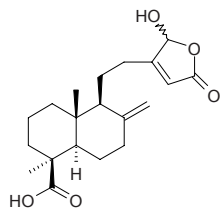
**16365 11-Oxo-kansenonol**

(23*E*)-Eupha-8,23-diene-3 β ,25-diol-7,11-dione C₃₀H₄₆O₄ (470.7). Colorless gum, [α]_D²³ = +6.6° (*c* = 0.15, MeOH). **Pharm:** Cell division arrester (cultured individual *Xenopus laevis* cells at blastular stage, 10 μ g/mL, >50% cleavage arrest). **Source:** GAN SUI *Euphorbia kansui* (dried root: yield = 0.000013%). **Ref:** 4690.

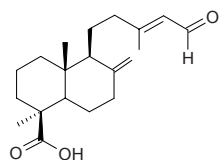


16366 16-Oxo-8(17),13-labdadiene-15,19-dioic acid

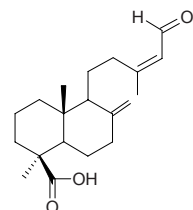
$C_{20}H_{28}O_5$ (348.44). Colorless oil, $[\alpha]_D^{25} = +38^\circ$ ($c = 1.03$, $CHCl_3$). **Pharm:** Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, $IC_{50} = (29.3 \pm 0.8) \mu\text{g/mL} = (84.1 \pm 2.3) \mu\text{mol/L}$). **Source:** CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 3022.

**16367 15-Oxolabda-8(17),13E-dien-19-oic acid**

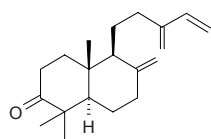
$C_{20}H_{30}O_3$ (318.46). $[\alpha]_D^{25} = +45.2^\circ$ ($c = 0.12$, $CHCl_3$); $[\alpha]_D = +47.5^\circ$. **Source:** RI BEN XIANG BAI JING PI *Thuja standishii*. **Ref:** 5352.

**16368 15-Oxolabda-8(17),13Z-dien-19-oic acid**

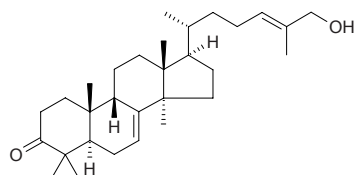
$C_{20}H_{30}O_3$ (318.46). Colorless oil, $[\alpha]_D^{25} = +27.3^\circ$ ($c = 0.28$, $CHCl_3$). **Source:** RI BEN XIANG BAI JING PI *Thuja standishii*. **Ref:** 5352.

**16369 3-Oxo-labda-8(17),13(16),14-triene**

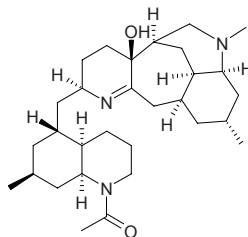
$C_{20}H_{30}O$ (286.46). $[\alpha]_D^{20} = +34.5^\circ$ ($c = 2.0$, $CHCl_3$). **Source:** YUAN YE TAI *Jamesoniella colorata*. **Ref:** 3375.

**16370 24(E)-3-Oxo-9βH-lanosta-7,24-dien-26-ol**

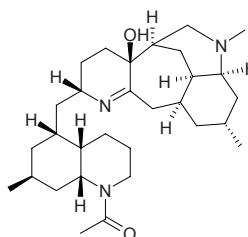
$C_{30}H_{48}O_2$ (440.72). Pale-yellow amorphous powder, mp 130~132 °C, $[\alpha]_D^{20} = +37.8^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Cytotoxic (marginal activity: A549, $ED_{50} = 4.1 \mu\text{g/mL}$; SK-OV-3, $ED_{50} = 23.0 \mu\text{g/mL}$; SK-MEL-2, $ED_{50} = 9.2 \mu\text{g/mL}$; HCT15, $ED_{50} = 7.9 \mu\text{g/mL}$). **Source:** CHAO XIAN LENG SHAN *Abies koreana* (root cortex). **Ref:** 3854.

**16371 Oxolucidine A**

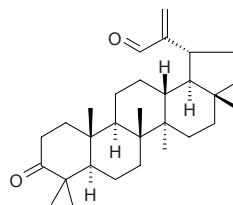
$C_{30}H_{49}N_3O_2$ (483.74). $[\alpha]_D^{21.5} = -29.1^\circ$ ($c = 0.74$, $CHCl_3$). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**16372 Oxolucidine B**

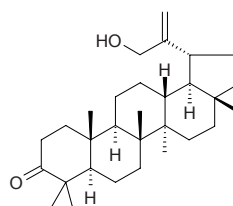
$C_{30}H_{49}N_3O_2$ (483.74). $[\alpha]_D^{21.5} = -30.7^\circ$ ($c = 0.55$, $CHCl_3$). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**16373 3-Oxolup-20(29)-en-30-al**

$C_{30}H_{46}O_2$ (438.70). Colorless needles, $[\alpha]_D^{20} = +22.3^\circ$ ($c = 1.0$, $CHCl_3$). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (1.55 \pm 0.06) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu\text{g/mL}$; *Plasmodium falciparum* FcM29, $IC_{50} = (4.67 \pm 0.09) \mu\text{g/mL}$)^[4419]; cytotoxic inactive (NSCLC-N6 cell line)^[3806]. **Source:** JU MI JIN HE HUAN *Acacia mellifera* (stem cortex), *Nuxia sphaerocephala* (leaf). **Ref:** 3806, 4419.

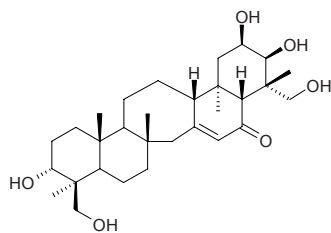
**16374 3-Oxolupenol**

30-Hydroxylup-20(29)-en-3-one $C_{30}H_{48}O_2$ (440.72). **Pharm:** Antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (9.05 \pm 1.06) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.05 \pm 0.002) \mu\text{g/mL}$; *Plasmodium falciparum* FcM29, $IC_{50} = (15.56 \pm 2.11) \mu\text{g/mL}$). **Source:** *Nuxia sphaerocephala* (leaf). **Ref:** 4419.

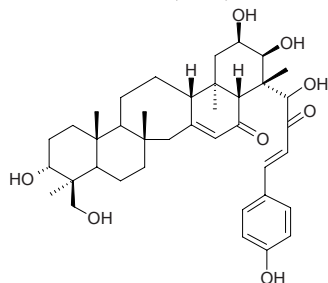


16375 16-Oxolyclanitin

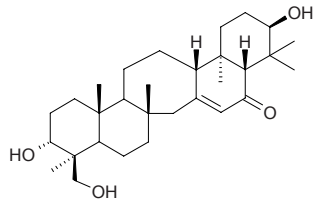
[140701-70-8] C₃₀H₄₈O₆ (504.71). Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], YU BAI SHI SONG *Lycopodium obscurum*. Ref: 1410, 2811, 2812.

**16376 16-Oxolyclanitin 30-(4-hydroxycinnamoyl)**

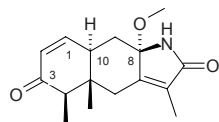
[140701-70-8] C₃₉H₅₄O₈ (650.85). Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], YU BAI SHI SONG *Lycopodium obscurum*. Ref: 1410, 2811, 2812.

**16377 16-Oxolycoclanivan**

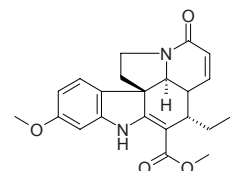
[53800-21-8] C₃₀H₄₈O₄ (472.71). Crystals (CHCl₃-MeOH), mp 245-247°C. Source: GUO JIANG LONG *Lycopodium complanatum*, SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], PU DI WU GONG *Lycopodium cernuum*. Ref: 2936, 1410, 2811.

**16378 3-Oxo-8α-methoxy-10αH-eremophila-1,7(11)-dien-12,8β-lactam**

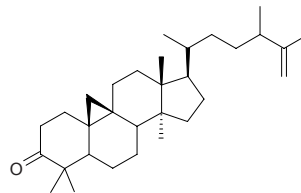
C₁₆H₂₁NO₃ (275.35). Colorless oil. Source: HUANG SE QIAN LI GUANG *Senecio flavus*. Ref: 2409.

**16379 3-Oxo-11-methoxytabersonine**

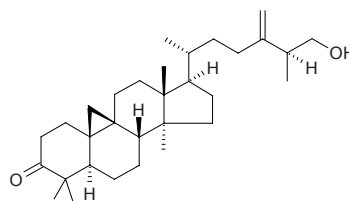
C₂₂H₂₄N₂O₄ (380.45). Yellowish transparent bits, [α]_D³⁰ = -67.4° (chloroform). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*. Ref: 49.

**16380 3-Oxo-24-methylenecycloartane**

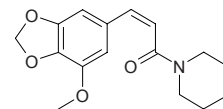
C₃₁H₅₀O (438.74). Yellowish oily residue. Source: WAI LAI CAI ZONG *Sabal peregrina* (leaf). Ref: 3805.

**16381 25(R)-3-Oxo-24-methylenecycloartan-26-ol**

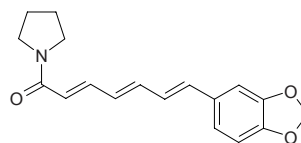
C₃₁H₅₀O₂ (454.74). Colorless needles (CHCl₃-MeOH), mp 145-146°C, [α]_D³⁰ = +175° (c = 0.6, CHCl₃). Source: MANG GUO *Mangifera indica*. Ref: 1868.

**16382 1-[1-Oxo-3(3,4-methylenedioxy-5-methoxyphenyl)-2Z-propenyl]piperidine**

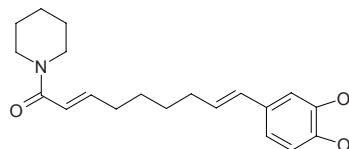
C₁₆H₁₉NO₄ (289.33). Colorless oil. Source: HU JIAO *Piper nigrum* (root: yield = 0.0001%dw). Ref: 4753.

**16383 1-[1-Oxo-7(3,4-methylenedioxyphenyl)-2E,4E,6E-heptatrienyl]pyrrolidine**

C₁₈H₁₉NO₃ (297.36). Source: HU JIAO *Piper nigrum* (root: yield = 0.000057%dw). Ref: 4753.

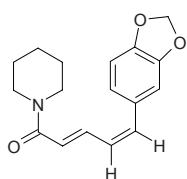
**16384 1-[1-Oxo-9(3,4-methylenedioxyphenyl)-2E,8E-nonadienyl]piperidine**

Piperonaline C₂₁H₂₇NO₃ (341.45). Colorless crystals. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (31.7±11.8)mm, control, length = (118.6±16.2)mm, InRt = 73.3%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (28.3±10.8)mm, control, length = (89.5±9.8)mm, InRt = 68.4%)^[4935]. Source: HU JIAO *Piper nigrum* (root: yield = 0.00031%dw), *Piper chaba* (fruit). Ref: 4753, 4935.

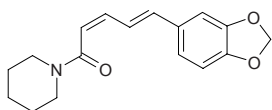


16385 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2E,4Z-pentadienyl]piperidine

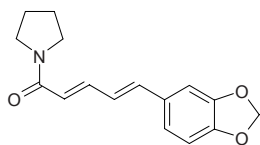
$C_{17}H_{19}NO_3$ (285.35). Source: HU JIAO *Piper nigrum* (root: yield = 0.00134%dw). Ref: 4753.

**16386 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2Z,4E-pentadienyl]piperidine**

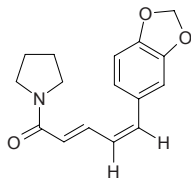
$C_{17}H_{19}NO_3$ (285.35). Source: HU JIAO *Piper nigrum* (root: yield = 0.00051%dw). Ref: 4753.

**16387 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2E,4E-pentadienyl]pyrrolidine**

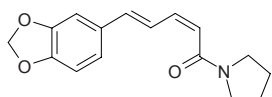
Piperidine; Piperamide-C 5:2(*E,E*) [25924-78-1] $C_{16}H_{17}NO_3$ (271.32). Crystals (EtOAc-hexane or C_6H_6 -pet. ether), mp 143~145°C. Source: HU JIAO *Piper nigrum* (root: yield = 0.00056%dw), JI NEI YA HU JIAO *Piper guineense*. Ref: 1521, 3240, 4753.

**16388 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2E,4Z-pentadienyl]pyrrolidine**

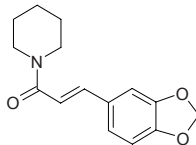
N-[10-(13,14-Methylenedioxyphenyl)-7(*E*),9(*Z*)-pentadienyl]-pyrrolidine $C_{16}H_{17}NO_3$ (271.32). Amorphous solid. Pharm: Antifungal activity as determined by direct bioautography against *Cladosporium sphaerospermum*. Source: HU JIAO *Piper nigrum* (root: yield = 0.00039%dw), LIU TU HU JIAO *Piper tuberculatum*, QIAO MU HU JIAO *Piper arboreum*. Ref: 2016, 4753.

**16389 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2Z,4E-pentadienyl]pyrrolidine**

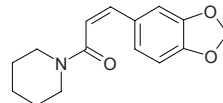
$C_{16}H_{17}NO_3$ (271.32). Colorless oil. Source: HU JIAO *Piper nigrum* (root: yield = 0.000057%dw). Ref: 4753.

**16390 1-[1-Oxo-3(3,4-methylenedioxyphenyl)-2E-propenyl]piperidine**

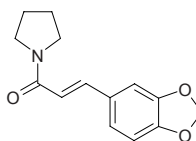
$C_{15}H_{17}NO_3$ (259.31). Source: HU JIAO *Piper nigrum* (root: yield = 0.000046%dw). Ref: 4753.

**16391 1-[1-Oxo-3(3,4-methylenedioxyphenyl)-2Z-propenyl]piperidine**

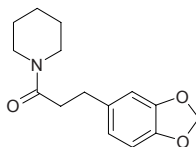
$C_{15}H_{17}NO_3$ (259.31). Source: HU JIAO *Piper nigrum* (root: yield = 0.00036%dw). Ref: 4753.

**16392 1-[1-Oxo-3(3,4-methylenedioxyphenyl)-2E-propenyl]pyrrolidine**

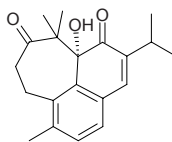
$C_{14}H_{15}NO_3$ (245.28). Source: HU JIAO *Piper nigrum* (root: yield = 0.000086%dw). Ref: 4753.

**16393 1-[1-Oxo-3(3,4-methylenedioxyphenyl)propyl]piperidine**

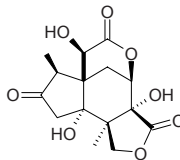
$C_{15}H_{19}NO_3$ (261.32). Source: HU JIAO *Piper nigrum* (root: yield = 0.0007%dw). Ref: 4753.

**16394 3-Oxomicrostegeiol**

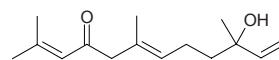
$C_{20}H_{24}O_3$ (312.41). Yellow solid, mp 77~78°C, $[\alpha]_D^{25} = +402.2^\circ$ ($c = 0.08$, $CHCl_3$). Source: TAI WAN SHAN *Taiwania cryptomerioides*. Ref: 2526.

**16395 2-Oxoneomajucin**

$C_{15}H_{18}O_8$ (326.31). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp). Ref: 4621.

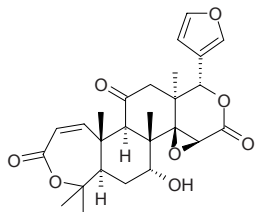
**16396 9-Oxonerolidol**

$C_{15}H_{24}O_2$ (236.36). Source: NAN MU *Phoebe nanmu*. Ref: 6.

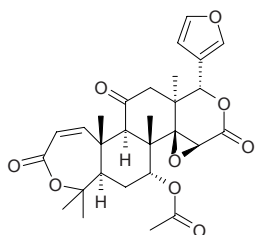


16397 11-Oxo-7 α -obacunol

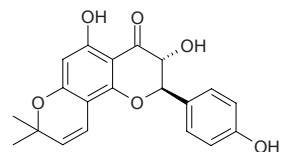
$C_{26}H_{30}O_8$ (470.52). Colorless prisms ($CHCl_3$ -MeOH), mp 243~245°C, $[\alpha]_D^{23} = -25.8^\circ$ ($c = 0.1$, $CHCl_3$). Source: ZHONG GUO YANG CHUN *Cedrela sinensis* (leaf). Ref: 3883.

**16398 11-Oxo-7 α -obacunyl acetate**

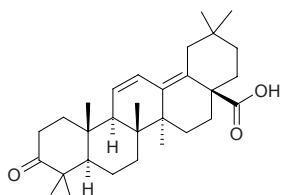
$C_{28}H_{32}O_9$ (512.56). Colorless prisms ($CHCl_3$ -MeOH), mp 280~283°C, $[\alpha]_D^{23} = -52.2^\circ$ ($c = 0.1$, $CHCl_3$). Source: ZHONG GUO YANG CHUN *Cedrela sinensis* (leaf). Ref: 3883.

**16399 4-Oxoobovatachromene**

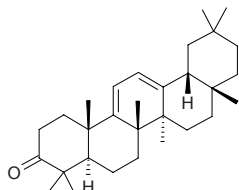
$C_{20}H_{18}O_6$ (354.36). Pharm: Antioxidant (DPPH radical scavenger, 250 μ mol/L, InRt = -1.8%; control Vitamin E, IC₅₀ = 8.3 μ mol/L). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf; yield = 0.00053%dw). Ref: 4722.

**16400 3-Oxo-11,13(18)-oleanadien-28-oic acid**

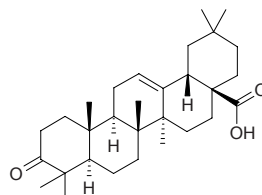
$C_{30}H_{44}O_3$ (452.68). Colorless prisms, mp 223~225°C, $[\alpha]_D^{20} = -68^\circ$ ($c = 0.24$, $CHCl_3$). Source: XUAN CHUI JIA MI *Viburnum suspensum*. Ref: 1966.

**16401 3-Oxo-olean-9(11),12-diene**

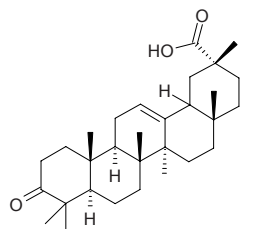
$C_{30}H_{46}O$ (422.70). Amorphous powder (acetone), easily soluble in $CHCl_3$ and MeOH. Source: SI CHUAN QING FENG TENG *Sabia schumanniana* (aerial parts). Ref: 4883.

**16402 3-Oxo-olean-12-en-28-oic acid**

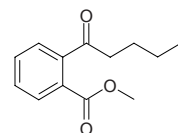
Oleanonic acid [17990-42-0] $C_{30}H_{46}O_3$ (454.70). White powder, mp 226~229°C, $[\alpha]_D^{20} = +101^\circ$ ($c = 1.63$, pyridine), $[\alpha]_D^{25} = +76.9^\circ$ ($c = 0.06$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (7.2 \pm 1.9) μ mol/L, control Etoposide, IC₅₀ = (0.5 \pm 0.2) μ mol/L, *cis*-Platin, IC₅₀ = (3.2 \pm 0.5) μ mol/L; KB cell, IC₅₀ = (6.3 \pm 1.6) μ mol/L, Etoposide, IC₅₀ = (0.9 \pm 0.3) μ mol/L, *cis*-Platin, IC₅₀ = (4.4 \pm 0.9) μ mol/L; HT29 cell, IC₅₀ > 10 μ mol/L, Etoposide, IC₅₀ = (2.4 \pm 0.5) μ mol/L, *cis*-Platin, IC₅₀ = (5.7 \pm 1.1) μ mol/L)^[5254]; cytotoxic inactive (K562, ED₅₀ > 20 μ mol/L, control Adriamycin, ED₅₀ = (0.09 \pm 0.03) μ mol/L; B16(F-10), ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.06 \pm 0.10) μ mol/L; SK-MEL-2, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.09 \pm 0.30) μ mol/L; PC3, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.83 \pm 0.18) μ mol/L; LOX-IMVI, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.38 \pm 0.33) μ mol/L; A549, ED₅₀ > 20 μ mol/L, Adriamycin, ED₅₀ = (0.67 \pm 0.21) μ mol/L)^[5479]; cytotoxic (MCF7, IC₅₀ = (4.6 \pm 0.1) μ mol/L, control Adriamycin, IC₅₀ = (1.5 \pm 0.2) μ mol/L; K562, IC₅₀ = (4.2 \pm 0.3) μ mol/L, Adriamycin, IC₅₀ = (0.07 \pm 0.01) μ mol/L; Bowes, IC₅₀ = (14.8 \pm 0.5) μ mol/L, Adriamycin, IC₅₀ = (0.45 \pm 0.01) μ mol/L; T24S hmn bladder cancer, IC₅₀ = (24.9 \pm 0.5) μ mol/L, Adriamycin, IC₅₀ = (5.8 \pm 0.6) μ mol/L; A549, IC₅₀ = (61.3 \pm 1.2) μ mol/L, Adriamycin, IC₅₀ = (15.8 \pm 6.7) μ mol/L)^[5288]. Source: AN HUI CONG MU *Aralia subcapitata*, LONG NAO GAO XIANG *Dryobalanops aromatica*, MU TONG *Akebia quinata*, RONG SHU *Ficus microcarpa* (aerial root), SU HE XIANG *Liquidambar orientalis*, TAI WAN FU RONG *Hibiscus taiwanensis*, DA ZAO *Ziziphus jujuba*, XUAN SHEN *Scrophularia ningpoensis*, *Juliania adstringens* (bark)^[3786]. Ref: 622, 660, 2529, 3786, 5254, 5288, 5479.

**16403 3-Oxo-olean-12-en-29-oic acid**

[76094-29-6] $C_{30}H_{46}O_3$ (454.70). Colorless needles (acetone), mp 255~256°C, $[\alpha]_D^{23} = +85.3^\circ$ ($c = 0.59$, $CHCl_3$). Pharm: Cytotoxic (culture P₃₈₈, ED₅₀ = 0.61 μ g/mL). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 2888, 2889.

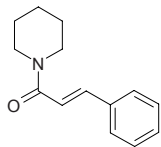
**16404 2-(1-Oxopentyl)-benzoic acid methyl ester**

$C_{13}H_{16}O_3$ (220.27). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2805.

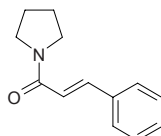


16405 1-(1-Oxo-3-phenyl-2E-propenyl)piperidine

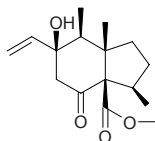
$C_{14}H_{17}NO$ (215.30). Source: HU JIAO *Piper nigrum* (root: yield = 0.00027%dw). Ref: 4753.

**16406 (1-Oxo-3-phenyl-2E-propenyl)pyrrolidine**

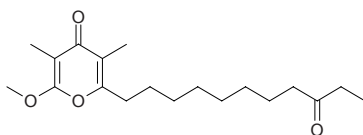
$C_{13}H_{15}NO$ (201.27). Source: HU JIAO *Piper nigrum* (root: yield = 0.000057%dw). Ref: 4753.

**16407 7-Oxopinguinol-12-methyl ester**

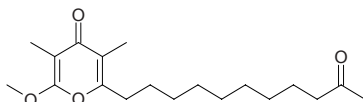
$C_{16}H_{24}O_4$ (280.37). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

**16408 9'-Oxopodopyrone**

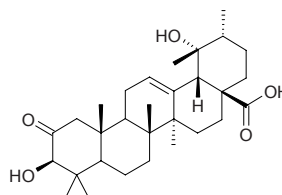
[193352-77-1] $C_{19}H_{30}O_4$ (322.45). Colorless oil. Pharm: Bone resorption inhibitor (calvaria of baby mus, inhibits Ca release induced by bPTH, more effective than calcitonin and ipriflavone). Source: KAI TE LENG ZHU MU *Gonystylus keithii*. Ref: 2869.

**16409 10'-Oxopodopyrone**

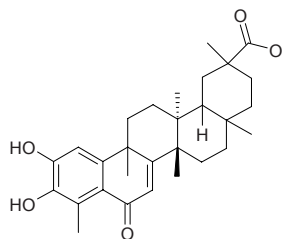
[126622-71-7] $C_{19}H_{30}O_4$ (322.45). Colorless oil. Pharm: Bone resorption inhibitor (calvaria of baby mus, inhibits Ca release induced by bPTH, more effective than calcitonin and ipriflavone, 1.0 μ g/mL InRt = 109%). Source: KAI TE LENG ZHU MU *Gonystylus keithii*, *Podolepis longipedata*. Ref: 2868, 2869.

**16410 2-Oxopomolic acid**

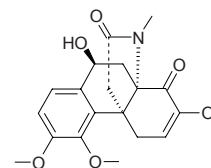
3 α ,19 α -Dihydroxy-2-oxo-12-ursen-28-oic acid $C_{30}H_{46}O_5$ (486.70). Pharm: Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC_{50} = 38.1 μ mol/L; control Cyclosporine A, IC_{50} = 0.012 μ mol/L). Source: TAI WAN PI PA *Eriobotrya deflexa* (leaf). Ref: 3064.

**16411 6-Oxopristimerol**

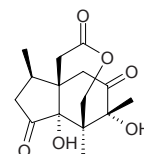
[161127-55-5] $C_{30}H_{40}O_5$ (480.65). Colorless amorphous solid, mp 173~178°C, $[\alpha]_D = -80.4^\circ$ (c = 0.48, pyridine). Pharm: Cytotoxic (L_{1210} IC_{50} = 2.8 μ g/mL, KB IC_{50} = 2.8 μ g/mL, P₃₈₈ IC_{50} = 1.5 μ g/mL). Source: QIU SHI MEI DENG *Maytenus chuchuhuasca*. Ref: 2891.

**16412 16-Oxoprometaphanine**

[58738-31-1] $C_{20}H_{23}NO_6$ (373.41). The structure is one of two tautomers. Prisms (MeOH), mp 195°C, $[\alpha]_D^{20} = -52.3^\circ$ (c = 0.5, $CHCl_3$). Source: QIAN JIN TENG *Stephania japonica*. Ref: 660, 1521.

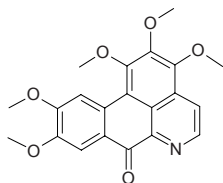
**16413 3-Oxopseudoanisatin**

$C_{15}H_{20}O_6$ (296.32). $[\alpha]_D^{23} = -181.2^\circ$ (c = 0.17, EtOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00004%dw). Ref: 4697.

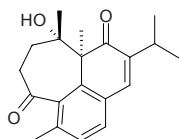


16414 Oxopurpureine

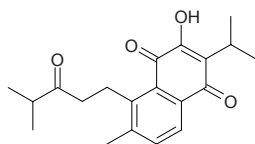
[32845-27-5] C₂₁H₁₉NO₆ (381.39). Nacarat columnar crystals (MeOH), mp 198–200°C, yellow needles (alcohol), mp 192–194°C. Pharm: Cytotoxic (S180 *in vitro*, 9KB ED₅₀ = 5.8mg/mL). Source: NIAN ZHI LUO LIN *Rollinia mucosa*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.040%^[5508]), YU GUO XIAO YE NAN *Phoebe cinnamomifolia*, ZI FAN LI ZHI *Annona purpurea*. Ref: 2822, 5508.

**16415 1-Oxo-salvibretol**

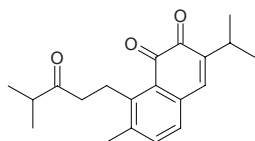
C₂₀H₂₄O₃ (312.41). [α]_D²⁵ = +17° (c = 0.1, CHCl₃). Pharm: Cytotoxic (A2780, IC₅₀ = 22.3μg/mL, control Actinomycin D, IC₅₀ = 0.001μg/mL; P₃₈₈, IC₅₀ > 20μg/mL; LNCaP, IC₅₀ > 20μg/mL; KB, IC₅₀ > 20μg/mL; Col2, IC₅₀ > 20μg/mL; LU1, IC₅₀ > 20μg/mL). Source: XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5400.

**16416 3-Oxosapriparaquinone**

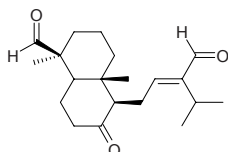
C₂₀H₂₄O₄ (328.41). Source: TAI WAN SHAN *Taiwania cryptomerioides*. Ref: 2526.

**16417 3-Oxosaprorthoquinone**

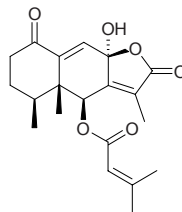
C₂₀H₂₄O₃ (312.41). Red needles, mp 72–73°C. Source: TAI WAN SHAN *Taiwania cryptomerioides*. Ref: 2526.

**16418 8-Oxo-8,14-seco-abiet-12-en-14,19-dial**

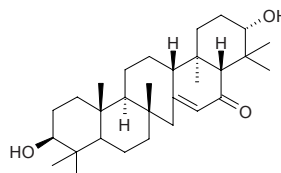
C₂₀H₃₀O₃ (318.46). Oil, [α]_D²⁹ = +7.1° (c = 0.42, MeOH). Source: LONG BAI *Juniperus chinensis* var. *kaizuka* (leaf: yield = 0.000067%dw). Ref: 3050.

**16419 1-Oxo-6β-seneciolyloxy-8α-hydroxyeremophil-7(11),9-(10)-dien-8β(12)-olide**

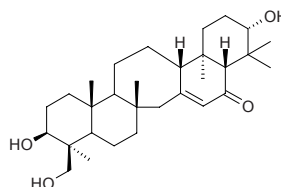
C₂₀H₂₄O₆ (360.41). Colorless gum, [α]_D²⁵ = –120° (c = 0.10, acetone). Source: JIA TUO WU *Ligulariopsis shichuana* (whole herb: 00020%dw). Ref: 4627.

**16420 16-Oxoserratenediol**

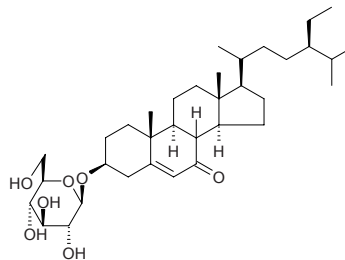
[24513-52-8] C₃₀H₄₈O₃ (456.72). mp 294–297°C. Source: SHEN JIN CAO *Lycopodium japonicum* [Syn. *Lycopodium clavatum*]. Ref: 6.

**16421 16-Oxoserratriol**

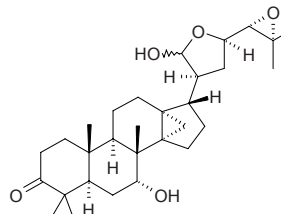
[44428-10-2] C₃₀H₄₈O₄ (472.71). mp 294–298°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*], GUO JIANG LONG *Lycopodium complanatum*. Ref: 2947, 2936, 1410.

**16422 7-Oxositosteryl-β-O-glucopyranoside**

C₃₅H₅₈O₇ (590.85). Source: JIN YING ZI *Rosa laevigata*. Ref: 1326.

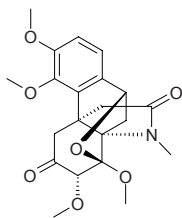
**16423 3-Oxo-skimmiarepin**

C₃₀H₄₆O₅ (486.70). Source: *Zanthoxylum* sp. Ref: 2176.

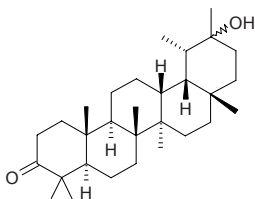


16424 Oxostephamiersine

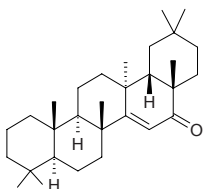
[52466-83-8] C₂₁H₂₅NO₇ (403.44). Prisms (MeOH), mp 256°C, 290°C (dimorphism), [α]_D²⁷ = +88.25° (c = 1.87, CHCl₃). Source: AO DA LI YA QIAN JIN TENG *Stephania japonica* var. *australis*, QIAN JIN TENG *Stephania japonica*. Ref: 2872.

**16425 3-Oxo taraxastan-20(R or S)-ol**

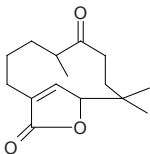
C₃₀H₅₀O₂ (442.73). Shining needles (CHCl₃-MeOH) mp 275~278°C, [α]_D³⁰ = -9.0°. Source: MANG GUO *Mangifera indica*. Ref: 1868.

**16426 16-Oxotaraxer-14-ene**

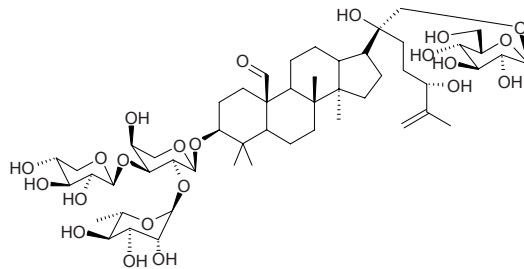
C₃₀H₄₈O (424.72). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 1414.

**16427 8-Oxo-6,7,9,10-tetrahydrohumulen-1,12-olide**

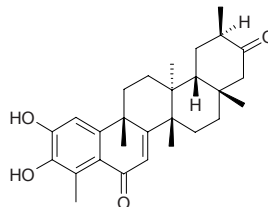
C₁₅H₂₂O₃ (250.34). Crystals, mp 112~115°C. Pharm: Phytotoxin (6mg/mL: *S. acutus*, mortality = 3%, *L. paucicostata*, mortality = 50%)^[5123]; cytotoxic (P₃₈₈, IC₅₀ = 40μmol/L, control *cis*-Platin, IC₅₀ = 8μmol/L; A549, IC₅₀ > 40μmol/L, *cis*-Platin, IC₅₀ = 8μmol/L; HT29, IC₅₀ > 40μmol/L, *cis*-Platin, IC₅₀ = 16μmol/L; MEL-28, IC₅₀ > 40μmol/L, *cis*-Platin, IC₅₀ = 8μmol/L)^[5123]. Source: *Asteriscus vogelii* (aerial parts). Ref: 5123.

**16428 19-Oxo-3β,20S,21,24S-tetrahydrodammar-25-ene 3-O-[[α-L-rhamnopyranosyl(1→2)][β-D-xylopyranosyl(1→3)]-α-L-arabinopyranosyl]-21-O-β-D-glucopyranoside**

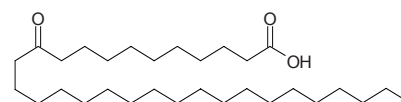
C₅₂H₈₆O₂₂ (1063.25). Amorphous powder, [α]_D²⁰ = 0° (c = 0.63, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0015%dw). Ref: 4751.

**16429 6-Oxotingenol**

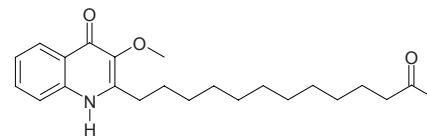
[161127-54-4] C₂₈H₃₆O₄ (436.60). White powder, mp > 300°C, [α]_D = -151.8° (c = 0.11, pyridine). Pharm: Cytotoxic (L₁₂₁₀ IC₅₀ = 6.0μg/mL; KB IC₅₀ = 30μg/mL; P₃₈₈ IC₅₀ = 2.6μg/mL); antibacterial (*Staphylococcus aureus* MIC = 40~50μg/mL; *Bacillus subtilis* MIC = 12~14μg/mL). Source: DONG QING YE MEI DENG MU *Maytenus ilicifolia*, JIA NA LI MEI DENG MU *Maytenus canariensis*. Ref: 2891, 2800.

**16430 11-Oxotriacontanoic acid**

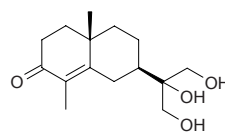
C₃₀H₅₈O₃ (466.79). mp 99~101°C. Source: YING SU *Papaver somniferum*. Ref: 6.

**16431 2-(12-Oxo-tridecanyl)-3-methoxy-4-quinolone**

C₂₃H₃₃NO₃ (371.52). White gum. Source: *Spathelia excelsa* (leaf). Ref: 5297.

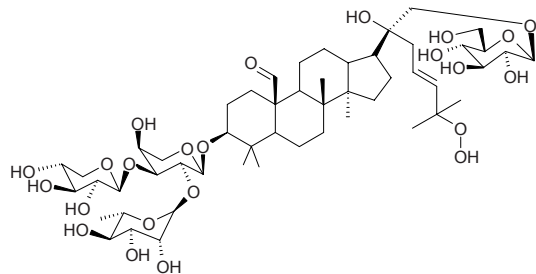
**16432 3-Oxo-11,12,13-trihydroxy-eudesm-4-ene**

C₁₅H₂₄O₄ (268.36). [α]_D²⁵ = +21.8° (c = 0.17, CHCl₃). Source: XI LA SI MAO SHI *Achillea holosericea*. Ref: 2008.



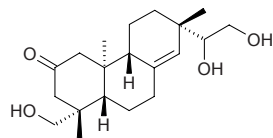
16433 19-Oxo-3 β ,20S,21-trihydroxy-25-hydroperoxydammar-23-ene 3-O-[[α -L-rhamnopyranosyl(1 \rightarrow 2)][β -D-xylopyranosyl(1 \rightarrow 3)]- α -L-arabinopyranosyl]-21-O- β -D-glucopyranoside

C₅₂H₈₆O₂₃ (1079.25). Amorphous powder, $[\alpha]_D^{20} = -3.6^\circ$ ($c = 0.91$, MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0014%dw). **Ref:** 4751.



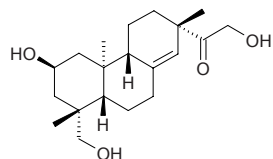
16434 ent-2-Oxo-15,16,19-trihydroxypimar-8(14)-ene

C₂₀H₃₂O₄ (336.48). White amorphous powder, $[\alpha]_D^{20} = -29.9^\circ$ ($c = 1.55$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0007%). **Ref:** 4764.



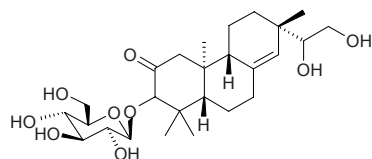
16435 ent-15-Oxo-2 β ,16,19-trihydroxypimar-8(14)-ene

C₂₀H₃₂O₄ (336.48). White amorphous powder, $[\alpha]_D^{20} = -15.1^\circ$ ($c = 0.55$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00037%). **Ref:** 4764.



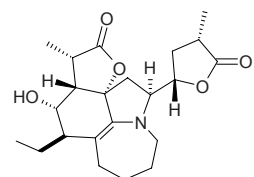
16436 ent-2-Oxo-3 β ,15,16-trihydroxypimar-8(14)-en-3-O- β -glucopyranoside

C₂₆H₄₂O₉ (498.62). Pale gum, $[\alpha]_D^{20} = -22.2^\circ$ ($c = 1.35$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00073%). **Ref:** 4764.



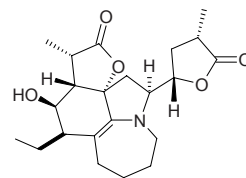
16437 Oxotuberostemonine

[20675-62-1] C₂₂H₃₁NO₅ (389.50). Needles (MeOH), mp 222°C, 217°C. **Source:** BAI BU *Stemona tuberosa*, ZHI LI BAI BU *Stemona sessilifolia*. **Ref:** 6, 1521.



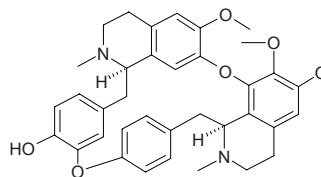
16438 Oxotuberostemonine II

C₂₂H₃₁NO₅ (389.50). White solid, mp 90~91°C. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 673.



16439 Oxyacanthine

Oxyacanthine; 6,6',7-Trimethoxy-2,2'-dimethoxyacanthan-12'-ol [548-40-3] C₃₇H₄₀N₂O₆ (608.74). Crystals (pet. ether), mp 212~214°C, $[\alpha]_D^{29} = +285.6^\circ$ ($c = 0.5$, CHCl₃); mp 208~214°C, 216~217°C. **Pharm:** Adrenaline antagonist; antibacterial (*Mycobacterium tuberculosis*, *Staphylococcus aureus* and *Mycobacterium smegmatis*, MIC = 1 mg/mL); antifungal (*Candida albicans*, MIC = 1 mg/mL); antineoplastic (hmn HeLa-S₃, ED₅₀ = 3 μ g/mL, mus ascites carcinoma, 40mg/mL); choleric; vasodilator; LD₅₀ (mus, ip) = 50mg/kg. **Source:** BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content = 0.23%)^[5508], CHANG YUAN YE XIAO BO *Berberis oblonga*, CI YE SHI DA GONG LAO *Mahonia acanthifolia*, DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], DUO HUA XIAO BO *Berberis floribunda*, GE LI FEI SI SHI DA GONG LAO *Mahonia griffithii*, HUANG GEN SHU *Xanthorhiza simplicissima*, HUANG XIAO BO *Berberis tschonoskiana*, JIAN YE SHI DA GONG LAO *Mahonia aquifolium*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.001%)^[5508], LAI SHI NA TE SHI DA GONG LAO *Mahonia leschenaultii*, LAN BO TE XIAO BO *Berberis lambertii*, MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], MAN NI PU ER SHI DA GONG LAO *Mahonia manipurensis*, OU ZHOU XIAO BO *Berberis vulgaris*, PA LI BEI FANG SHI DA GONG LAO *Mahonia borealis*, PU FU SHI DA GONG LAO *Mahonia repens*, QUAN YUAN YE XIAO BO *Berberis integerrima*, RI BEN XIAO BO *Berberis thunbergii*, TOU MING TANG SONG CAO *Thalictrum lucidum*, TU HUANG LIAN *Berberis julianae*, XI JIN SHI DA GONG LAO *Mahonia sikkimensis*, XI MENG SI SHI DA GONG LAO *Mahonia simonsii*, XI YE GONG LAO MU *Mahonia fortunei*, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAO BO *Berberis amurensis*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content = 0.12%)^[5508], ZHI ZONG ZHUANG HUA XU XIAO BO *Berberis orthobotrys*, *Albertisia papuana*, *Cocculus leaebe*, *Magnolia compressa*, *Berberis* spp., *Mahonia* spp., occurs in many plants. **Ref:** 4, 6, 658, 660, 1521, 5508.

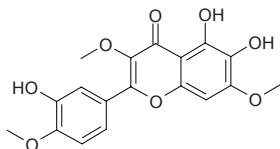


16440 Oxyyanin B

5,6,3'-Trihydroxy-3,7,4'-trimethoxyflavone [548-74-3] C₁₈H₁₆O₈ (360.33).

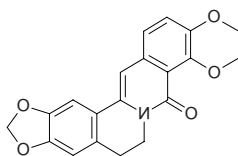
Pharm: Allergenic. **Source:** NI RI LI YA LIANG RUI SU MU

Distemonanthus benthamianus. **Ref:** 658.

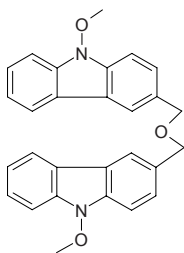
**16441 Oxyberberine**

[549-21-3] C₂₀H₁₇NO₅ (351.36). mp 198~200°C. **Source:** XIAO BO *Berberis*

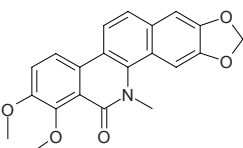
amurensis, MA WEI LIAN *Thalictrum foliolosum*. **Ref:** 6.

**16442 3,3'-[Oxybis(methylene)]bis(9-methoxy-9H-carbazole)**

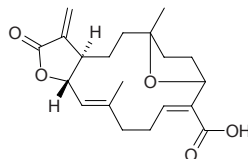
C₂₈H₂₄N₂O₃ (436.52). Brown gum. **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 50µg/mL, MIC = 0.115µmol/L, control Kanamycin, MIC = 3.13µg/mL; *Escherichia coli*, MIC = 25µg/mL, MIC = 0.057µmol/L, Kanamycin, MIC = 12.5µg/mL; *Proteus vulgaris*, MIC = 6.25µg/mL, MIC = 0.014µmol/L, Kanamycin, MIC = 12.5µg/mL); antifungal (*Aspergillus niger*, MIC = 25µg/mL, MIC = 0.057µmol/L; *Candida albicans*, MIC = 25µg/mL, MIC = 0.057µmol/L, control Fluconazole, MIC = 25µg/mL, MIC = 0.082µmol/L). **Source:** YIN DU JIU LI XIANG *Murraya koenigii* (stem cortex). **Ref:** 5299.

**16443 Oxychelerythrine**

C₂₁H₁₇NO₅ (363.37). **Source:** FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], RU DI JIN NIU *Zanthoxylum nitidum*, YE HUA JIAO PI *Zanthoxylum simulans*. **Ref:** 2949, 1290, 2950.

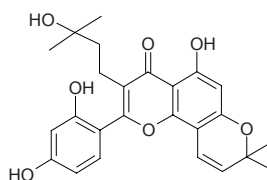
**16444 4,7-Oxycycloanisomelic acid**

[102567-16-8] C₂₀H₂₆O₅ (346.43). White powder, mp 213~215°C, [α]_D²³ = -22.4° (c = 1.0, CHCl₃). **Pharm:** Cytotoxic (KB, *in vitro*, IC₅₀ = 1.6µg/mL). **Source:** GUANG FANG FENG *Anisomeles indica* [Syn. *Epimeredi indica*]. **Ref:** 2866.

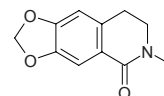
**16445 Oxydihydromorusin**

Morusinol [62949-93-3] C₂₅H₂₆O₇ (438.48). Crystals (MeOH), mp 215~216°C.

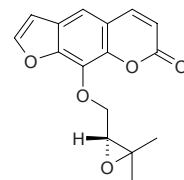
Source: SANG BAI PI *Morus alba*, *Morus* spp. **Ref:** 2961.

**16446 Oxyhydrastinine**

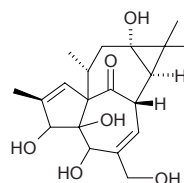
[552-29-4] C₁₁H₁₁NO₃ (205.22). Crystals (pet. Ether), mp 98°C. **Source:** JI YING SU *Argemone mexicana*, XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*, YAN JIN *Fumaria schleicheri*, *Papaver dubium* var. *glabrum*. **Ref:** 1521, 2909, 37.

**16447 Oxyimperatorin‡**

Heraclenin; Epoxyimperatorin; Prangenin; Imperatorin oxide C₁₆H₁₄O₅ (286.29). **Source:** CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.0014%dw). **Ref:** 4774. ‡Note: see compound 9419.

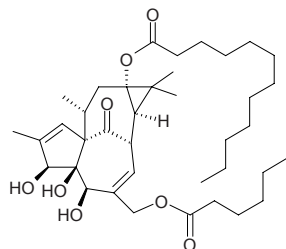
**16448 13-Oxyingenol**

C₂₀H₂₈O₆ (364.44). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 2953.

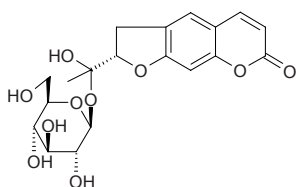


16449 13-Oxyingenol-13-dodecanoate-20-hexanoate

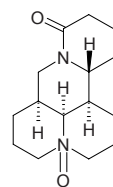
$C_{38}H_{60}O_8$ (644.90). Source: GAN SUI *Euphorbia kansui*. Ref: 2953.

**16450 Oxymarmesinin 5'-O-β-D-glucopyranoside**

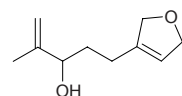
$C_{20}H_{24}O_{10}$ (424.41). mp 184–188°C, $[\alpha]_D^{22} = -48^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit). Ref: 3525.

**16451 Oxymatrine**

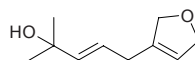
Matrine *N*-oxide [6837-52-8] $C_{15}H_{24}N_2O_2$ (264.37). mp 206–208°C. Pharm: Analgesic (mus, chemical and heat stimulation models); antiarrhythmic (animal, induced by aconitine, chloroform-adrenalin, ouabain, $CaCl_2$ and coronary ligation); antineoplastic; antihypertensive (anesthetic dog, iv); anti-inflammatory (acute exudative); benzedrine antagonist; caffeine antagonist; CNS activity (increases contractility of atrium, rbt, *in vitro*, 0.03–90 μmol/L, presents dose-response relationship); antipyretic (normal rat); sedative (inhibits autonomic movement in mus); strengthens CNS inhibition induced by chlorpromazine. Source: BAI CI HUA *Sophora viciifolia*, KU DOU ZI *Sophora alopecuroides* (seed: content = 2.16%^[5508]), KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = 0.79%–3.60%, mean content = 1.34%^[5508]), SHA SHENG HUAI *Sophora moorcroftiana*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*] (root and rhizome: mean content of 16 origins = 0.906%^[5508]). Ref: 4, 546, 564, 593, 658, 5501, 5508.

**16452 1,10-Oxy-α-myrcene hydroxide**

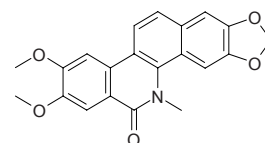
$C_{10}H_{16}O_2$ (168.24). Colorless oil, $[\alpha]_D = -4.7^\circ$ ($c = 0.4$, $CHCl_3$). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**16453 1,10-Oxy-β-myrcene hydroxide**

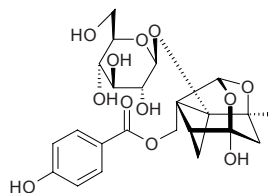
$C_{10}H_{16}O_2$ (168.24). Colorless oil, $[\alpha]_D = -22.2^\circ$ ($c = 0.3$, $CHCl_3$). Source: HUANG HUA HAO *Artemisia annua* (seed). Ref: 3435.

**16454 Oxynitidine**

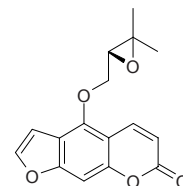
[548-31-2] $C_{21}H_{17}NO_5$ (363.37). mp 284–285°C. Source: RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 6.

**16455 Oxypaeoniflorin**

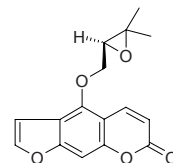
[39011-91-1] $C_{23}H_{28}O_{12}$ (496.47). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], CHI SHAO *Paeonia lactiflora* wild, CHUAN CHI SHAO *Paeonia veitchii*, CAO SHAO YAO *Paeonia obovata*, MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. Ref: 2, 660.

**16456 (S)-(-)-Oxypeucedanin**

$C_{16}H_{14}O_5$ (286.29). Pharm: NO Production inhibitor (LPS-activated mouse peritoneal macrophages, $IC_{50} = 57 \mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 28 \mu\text{mol/L}$)^[4454]. Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

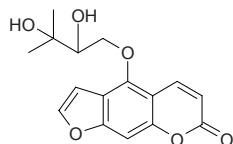
**16457 (+)-Oxypeucedanin**

[3172-02-2] $C_{16}H_{14}O_5$ (286.29). Pharm: Antimicrobial; piscicide. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], SHUAN CHI QIN *Prangos pabularia*, YUAN DANG GUI *Angelica archangelica*, ZHAO ZE QIAN HU *Peucedanum palustre*. Ref: 4, 658.

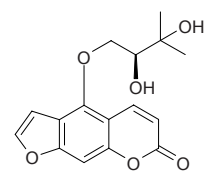


16458 Oxypeucedanin hydrate

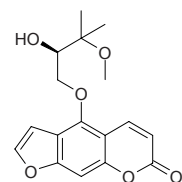
$C_{16}H_{16}O_6$ (304.30). Source: *Niphogeton ternata*. Ref: 4156.

**16459 (S)-(-)-Oxypeucedanin hydrate**

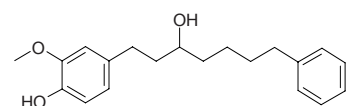
$C_{16}H_{16}O_6$ (304.30). Pharm: NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (15.1 \pm 3.0)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

**16460 Oxypeucedanin methanolate**

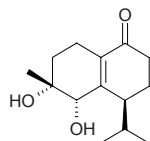
$C_{17}H_{18}O_6$ (318.33). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 5392.

**16461 Oxyphyllacinol**

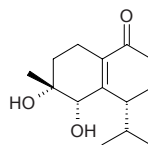
1-(4'-Hydroxy-3'-methoxyphenyl)-7-phenyl-3-heptanol $C_{20}H_{26}O_3$ (314.43). Green liquid. Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 845.

**16462 Oxyphyllenodiol A**

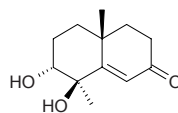
$C_{14}H_{22}O_3$ (238.33). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC_{50} = 28 μ mol/L; control *L*-NMMA, IC_{50} = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = 1.7%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.020%dw). Ref: 4655.

**16463 Oxyphyllenodiol B**

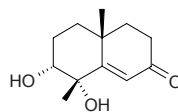
$C_{14}H_{22}O_3$ (238.33). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC_{50} > 100 μ mol/L; control *L*-NMMA, IC_{50} = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = -3.1%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0031%dw). Ref: 4655.

**16464 Oxyphyllenone A**

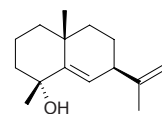
$C_{12}H_{18}O_3$ (210.28). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC_{50} = 35 μ mol/L; control *L*-NMMA, IC_{50} = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = -4.7%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0063%dw). Ref: 4655.

**16465 Oxyphyllenone B**

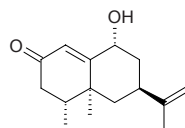
$C_{12}H_{18}O_3$ (210.28). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC_{50} > 100 μ mol/L; control *L*-NMMA, IC_{50} = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = -1.8%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0021%dw). Ref: 4655.

**16466 Oxyphyllol A**

$C_{15}H_{24}O$ (220.36). Colorless oil, $[\alpha]_D^{26}$ = +17.7° (c = 0.30, $CHCl_3$). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, IC_{50} = 42 μ mol/L; control *L*-NMMA, IC_{50} = 28 μ mol/L); β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 μ mol/L, InRt = -24.0%; control Curcumin, InRt = 62.6%). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0038%dw). Ref: 4655.

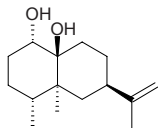
**16467 Oxyphyllol B**

$C_{15}H_{22}O_2$ (234.34). Colorless oil, $[\alpha]_D^{28}$ = +10.4° (c = 0.10, $CHCl_3$). Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.030%dw). Ref: 4655.

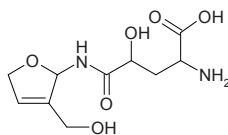


16468 Oxyphyllol C

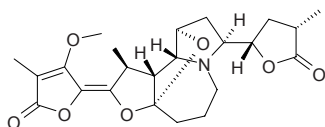
$C_{15}H_{26}O_2$ (238.37). Colorless oil, $[\alpha]_D^{29} = +6.5^\circ$ ($c = 1.60$, $CHCl_3$). **Pharm:** β -hexosaminidase release inhibitor (RBL-2H3 Cells, $100\mu\text{mol/L}$, $\text{InRt} = 8.2\%$; control Curcumin, $\text{InRt} = 62.6\%$). **Source:** YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.027%dw). **Ref:** 4655.

**16469 Oxypinnatanine**

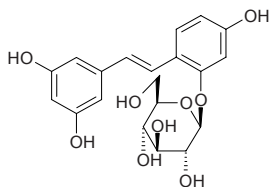
[52329-55-2] $C_{10}H_{16}N_2O_6$ (260.25). Crystals (EtOH aq.), mp 182~185°C (dec), $[\alpha]_D^{24} = +5.5^\circ$ ($c = 0.8$, H_2O). **Source:** XUAN CAO GEN *Hemerocallis fulva*, OU ZHOU SHENG GU YOU *Staphylea pinnata*. **Ref:** 2833.

**16470 Oxyprotostemonine**

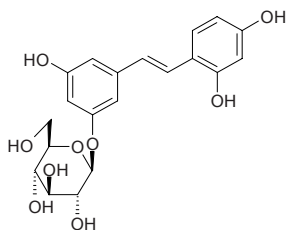
$C_{23}H_{29}NO_7$ (431.49). Amorphous, $[\alpha]_D^{20} = +142^\circ$ ($c = 0.2$, MeOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 159\text{mg/L}$, $EC_{50} = 47\text{mg/L}$). **Source:** DI TANG BAI BU *Stemona kerrii*, *Stemona curtisii*. **Ref:** 3409.

**16471 Oxyresveratrol 2-O-β-D-glucopyranoside**

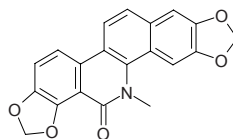
$C_{20}H_{22}O_9$ (406.39). Amorphous powder. $[\alpha]_D^{21} = -59.1^\circ$ ($c = 2.13$, MeOH). **Source:** WEI JING BAI HE *Schoenocaulon officinale* (rhizome). **Ref:** 4210.

**16472 Oxyresveratrol 3'-O-β-D-glucopyranoside**

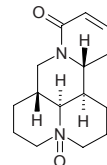
$C_{20}H_{22}O_9$ (406.39). **Source:** WEI JING BAI HE *Schoenocaulon officinale* (rhizome). **Ref:** 4210.

**16473 Oxysanguinarine**

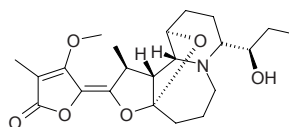
Hydroxysanguinarine [548-30-1] $C_{20}H_{13}NO_5$ (347.33). mp 360~361°C. **Source:** BAI QU CAI *Chelidonium majus*, BO LUO HUI *Macleaya cordata*, JU HUA HUANG LIAN *Corydalis pallida*, YING SU KE *Papaver somniferum*. **Ref:** 6.

**16474 N-Oxysophocarpine**

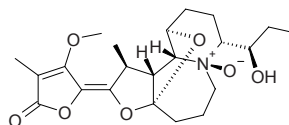
[548-30-1] $C_{15}H_{22}N_2O_2$ (262.35). mp 198~199°C, 206~208°C. **Source:** BAI CI HUA HUA *Sophora viciifolia*, BAI CI HUA YE *Sophora viciifolia*, KU DOU GEN *Sophora alopecuroides*, KU DOU ZI *Sophora alopecuroides* (seed: content = 0.906%^[5508]), KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 3 origins = 0.73%~2.12%, mean content = 1.59%^[5508]), KU SHEN SHI *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 546, 564, 593, 660, 5508.

**16475 Oxystemokerrin**

4-Methoxy-3-methyl-5-[(2Z,11aS)-3at,11t-epoxy-8t-((1R)-1-hydroxypropyl)-1c-methyl-(11ar,11bc)-dodecahydro-furo[3,2-c]pyrido[1,2-a]azepin-2-ylidene]-5H-furan-2-one $C_{22}H_{31}NO_6$ (405.50). Amorphous, $[\alpha]_D^{20} = +289^\circ$ ($c = 0.4$, MeOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 5.9\text{mg/L}$, $EC_{50} = 0.7\text{mg/L}$). **Source:** DI TANG BAI BU *Stemona kerrii*, *Stemona curtisii*, *Stemona* sp.(HG915). **Ref:** 3409.

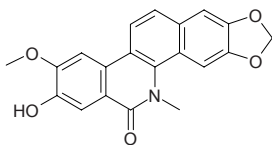
**16476 Oxystemokerrin-N-oxide**

4-Methoxy-3-methyl-5-[(2Z,11aS)-3at,11t-epoxy-8t-((1R)-1-hydroxypropyl)-1c-methyl-(11ar,11bc)-dodecahydro-furo[3,2-c]pyrido[1,2-a]azepin-2-ylidene]-5H-furan-2-one-N-oxide $C_{22}H_{31}NO_7$ (421.49). Amorphous, $[\alpha]_D^{20} = +247^\circ$ ($c = 0.3$, MeOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} = 12.5\text{mg/L}$, $EC_{50} = 0.4\text{mg/L}$). **Source:** DI TANG BAI BU *Stemona kerrii*, *Stemona curtisii*, *Stemona* sp.(HG915). **Ref:** 3409.

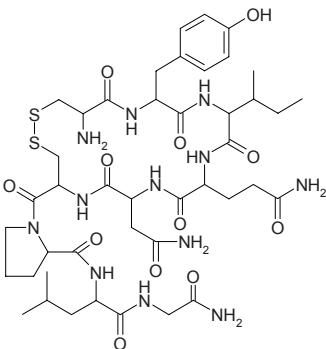


16477 Oxyterihanine

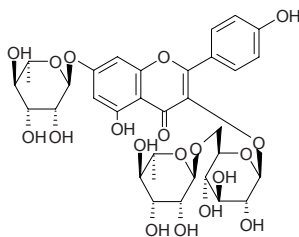
[95-66-54-9] C₂₀H₁₅NO₅ (349.35). mp > 300°C. Source: RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 1290, 2841.

**16478 Oxytocin**

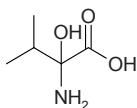
Pitocin; Syntocinon; Sympitan; Oxystin [50-56-6] C₄₃H₆₆N₁₂O₁₂S₂ (1007.21). White powder, [α]_D²² = -26.2° (c = 0.53), soluble in water, *n*-butanal.^[5507]
Source: NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6, 5507.

**16479 Oxytroside**

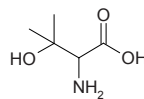
C₃₃H₄₀O₁₉ (740.68). Source: DUO YE JI DOU *Oxytropis myriophylla*. Ref: 2864.

**16480 α-Oxyvaline**

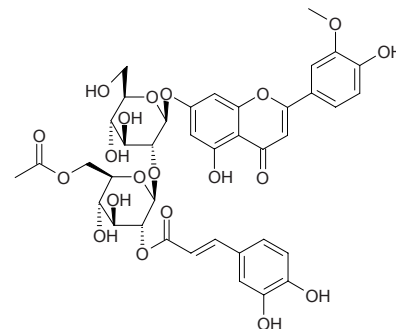
α-Hydroxyvaline C₅H₁₁NO₃ (133.15). mp L(+) 205°C, D(-) 205°C, (dl) 240°C (dec). Source: XIONG ZHANG *Selenarctos thibetanus*; *Ursus arctos*. Ref: 6, 660.

**16481 β-Oxyvaline**

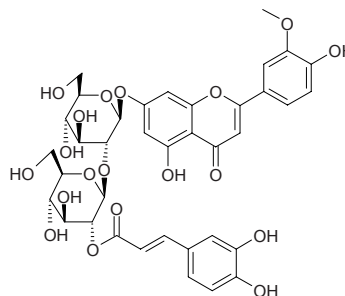
β-Hydroxyvaline C₅H₁₁NO₃ (133.15). mp L(+) 205°C, D(-) 205, (dl) 240°C (dec). Source: XIONG ZHANG *Selenarctos thibetanus*; *Ursus arctos*. Ref: 6, 660.

**16482 Ozturkoside A**

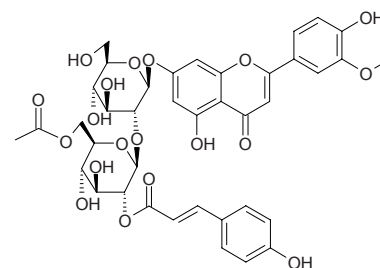
Chrysoeriol 7-*O*-[2'''-*O*-caffeoyl-6'''-*O*-acetyl-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranoside] C₃₉H₄₀O₂₀ (828.74). Yellow amorphous powder (MeOH). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**16483 Ozturkoside B**

Chrysoeriol 7-*O*-[2'''-*O*-caffeoyl-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranoside] C₃₇H₃₈O₁₉ (786.70). Yellow amorphous powder (MeOH). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**16484 Ozturkoside C**

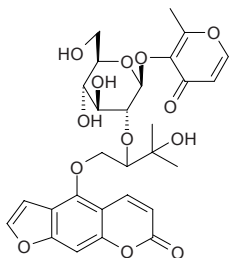
Chrysoeriol 7-*O*-[2'''-*O*-*p*-coumaroyl-6'''-β-*O*-acetyl-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranoside] C₃₉H₄₀O₁₉ (812.74). Yellow amorphous powder (MeOH). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.



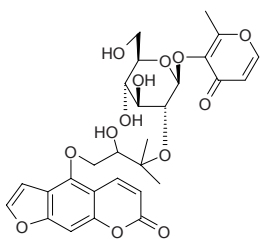
P

16485 Pabularin A

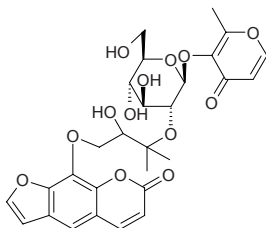
$C_{28}H_{30}O_{13}$ (574.54). $[\alpha]_D^{25} = -166.7^\circ$ ($c = 0.09$, MeOH). Source: SHUAN CHI QIN *Prangos pabularia*. Ref: 2004.

**16486 Pabularin B**

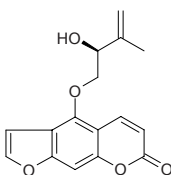
$C_{28}H_{30}O_{13}$ (574.54). $[\alpha]_D^{25} = -211.4^\circ$ ($c = 0.035$, MeOH). Source: SHUAN CHI QIN *Prangos pabularia*. Ref: 2004.

**16487 Pabularin C**

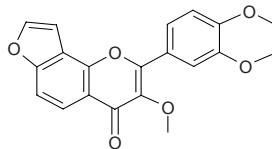
$C_{28}H_{30}O_{13}$ (574.54). $[\alpha]_D^{25} = -33.3^\circ$ ($c = 0.09$, MeOH). Source: SHUAN CHI QIN *Prangos pabularia*. Ref: 2004.

**16488 Pabulenol**

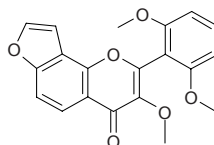
5-[2''(R)-Hydroxy-3''-methyl-3''-butenyloxy]furocoumarin [37551-62-5]
 $C_{16}H_{14}O_5$ (286.29). mp 122~123°C; Colorless amorphous solid, $[\alpha]_D^{23} = +63.5^\circ$ ($c = 0.126$, $CHCl_3$). Pharm: Antimycobacterial (*Mycobacterium fortuitum* ATCC6841, MIC = 128µg/mL, control Isoniazide, MIC = 0.5µg/mL; *Mycobacterium smegmatis* ATCC14486, MIC = 64µg/mL, Isoniazide, MIC = 2µg/mL; *Mycobacterium phlei* ATCC11758, MIC = 64µg/mL, Isoniazide, MIC = 2µg/mL; *Mycobacterium aurum* Pasteur Institute 104482, MIC = 64µg/mL, Isoniazide, MIC = 2µg/mL)^[5469]. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], CHOU CAO *Ruta graveolens*, *Niphogeton ternata*, *Ducrosia anethifolia* (aerial parts). Ref: 2, 6, 4156, 5469.

**16489 Pachycarin A**

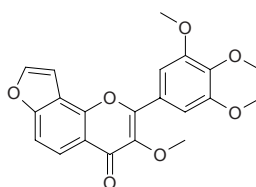
$C_{20}H_{16}O_6$ (352.35). Acicular crystals (acetone), mp 138°C. Source: KU TAN ZI *Milletia pachycarpa*. Ref: 821.

**16490 Pachycarin B**

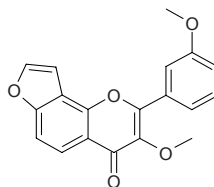
$C_{20}H_{16}O_6$ (352.35). Colorless acicular crystals, mp 187~188°C. Source: KU TAN ZI *Milletia pachycarpa*. Ref: 831.

**16491 Pachycarin C**

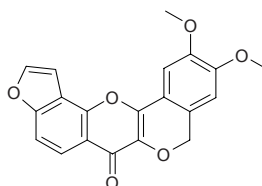
3,3',4',5'-Tetramethoxyfuran[4'',5'':8,7]foavone $C_{21}H_{18}O_7$ (382.37). Yellowish powder, mp 156~158°C. Source: KU TAN ZI *Milletia pachycarpa*. Ref: 2147.

**16492 Pachycarin D**

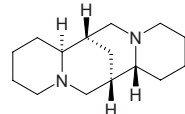
3,3'-Dimethoxyfuran[4'',5'':8,7]foavone $C_{19}H_{14}O_5$ (322.32). White crystals, mp 170~171°C. Source: KU TAN ZI *Milletia pachycarpa*. Ref: 2147.

**16493 Pachycarin E**

2,3-Dimethoxyfuran[4'',5'':11,10]-7-oxo-[2]benzopyrano[4',3-b][1]benzopyran $C_{20}H_{14}O_6$ (350.33). Palm yellow crystals, mp 218~221°C. Source: KU TAN ZI *Milletia pachycarpa*. Ref: 2147.

**16494 Pachycarpine**

[492-08-0] $C_{15}H_{26}N_2$ (234.39). bp 173~174°C/8mmHg. Source: YE JUE MING *Thermopsis lupinoides*. Ref: 6.

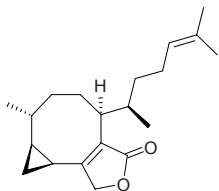


16495 Pachylactone

[89199-96-2] C₂₀H₃₀O₂ (302.46). Oil, [α]_D²⁵ = -23.3° (c = 0.18, CHCl₃).

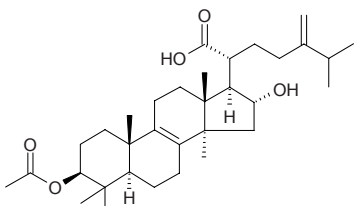
Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 1.1 μg/mL, P₃₈₈/DOX ED₅₀ = 1.8 μg/mL, KB ED₅₀ = 3.7 μg/mL, non-cellule lung cancer NSCLCN6-L16 ED₅₀ = 1.0 μg/mL).

Source: DI ZHONG HAI ZONG HAI ZAO *Dilophus ligulatus*, HOU WANG ZAO *Pachydictyon coriaceum*. **Ref:** 3720, 3721.

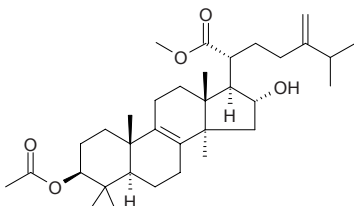
**16496 Pachymic acid**

[29070-92-6] C₃₃H₅₂O₅ (528.78). White acicular crystals, mp 295–296°C.

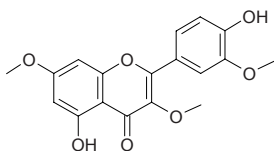
Source: FU LING *Poria cocos*. **Ref:** 2, 403.

**16497 Pachymic acid methyl ester**

C₃₅H₅₄O₅ (542.81). **Source:** FU LING *Poria cocos*. **Ref:** 660.

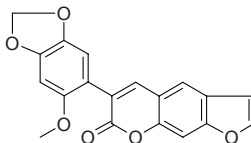
**16498 Pachypodol**

[33708-72-4] C₁₈H₁₆O₇ (344.32). mp 164–166°C. **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; antiviral; anti-androgenic inactive^[4106]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], GUANG JIE QIU HAI TANG *Begonia glabra*, HUO XIANG *Agastache rugosus*, NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00004%dw)^[4752], ROU MAO QIE *Solanum pubescens*, SAN LIE XUE TONG *Macaranga triloba*, *Miliusa balansae* (branch and leaf: yield = 0.052%dw). **Ref:** 2, 505, 658, 660, 3016, 4106, 4752, 5038.

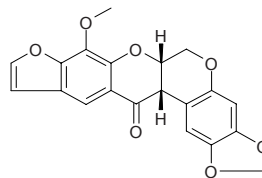
**16499 Pachyrrhizin**

[10091-01-7] C₁₉H₁₂O₆ (336.30). Yellow-green needles, mp 207–209°C.

Pharm: Antiviral (HSV-1, 50 μg/mL, InRt = 26.1%; HSV-2, 50 μg/mL, InRt = 23.7%)^[4180]. **Source:** DOU SHU *Pachyrrhizus erosus* (seed), *Neorautanenia edulis*, *Neorautanenia pseudopachyrrhiza*. **Ref:** 6, 660, 1521, 4180.

**16500 Pachyrrhizone**

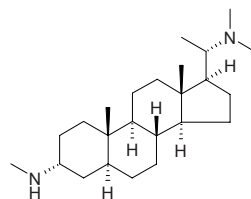
C₂₀H₁₄O₇ (366.33). mp 232–240°C (dec). **Pharm:** Pesticide; antiviral (HSV-1, 50 μg/mL, inactive; HSV-2, 50 μg/mL, InRt = 15.5%)^[4180]. **Source:** DOU SHU *Pachyrrhizus erosus* (seed). **Ref:** 6, 658, 4180.

**16501 Pachysamine A**

[6801-29-2] C₂₄H₄₄N₂ (360.63). Colorless lamellar crystals

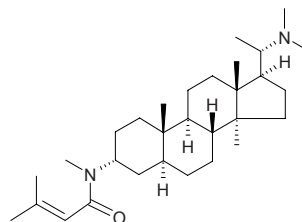
(dichloromethane–acetone), mp 167–168°C, [α]_D¹⁰ = +20° (c = 1.24). **Pharm:**

Sedative (mus, LD₅₀ = 89.0 mg/kg, CD₅₀ = 75.3 mg/kg). **Source:** HAI NAN YE SHAN HUA *Sarcococca vagans*, JIN GANG DA *Croomia japonica*, XUE SHAN LIN *Pachysandra terminalis*. **Ref:** 6, 261, 399, 900.

**16502 Pachysamine B**

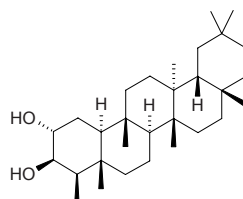
[6792-14-9] C₂₉H₅₀N₂O (442.73). mp 171–173°C. **Source:** XUE SHAN LIN

Pachysandra terminalis. **Ref:** 6.

**16503 Pachysandiol A**

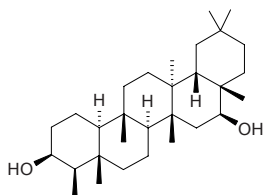
[17946-96-2] C₃₀H₅₂O₂ (444.75). mp 278–280°C. **Source:** XUE SHAN LIN

Pachysandra terminalis. **Ref:** 6.

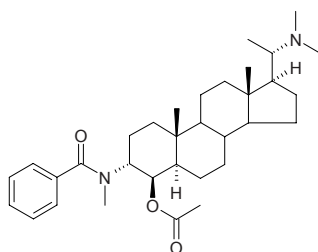


16504 Pachysandiol B

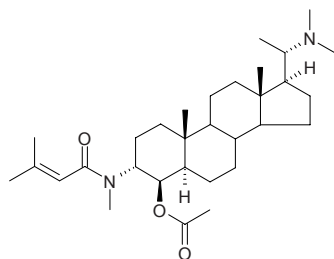
[33465-90-6] C₃₀H₅₂O₂ (444.75). mp 280~282°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**16505 Pachysandrine A**

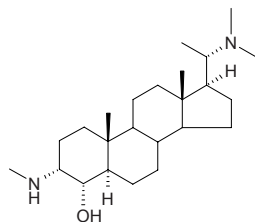
[6879-28-3] C₃₃H₅₀N₂O₃ (522.78). mp 235~236°C. Pharm: Sedative;
antiulcerative (mus, sc, 50mg/kg, gastric ulcer induced by leach stress); LD₅₀
(mus, ip) > 200mg/kg. Source: XUE SHAN LIN *Pachysandra terminalis* (in
1967, the compound was isolated from the plant)^[5505]. Ref: 6, 1141, 5505.

**16506 Pachysandrine B**

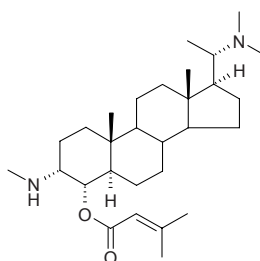
[6879-29-4] C₃₁H₅₂N₂O₃ (500.77). mp 187~189°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**16507 Pachysandrine C**

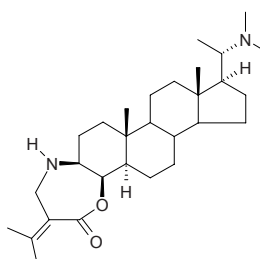
[6801-30-5] C₂₄H₄₄N₂O (376.63). mp 212~214°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**16508 Pachysandrine D**

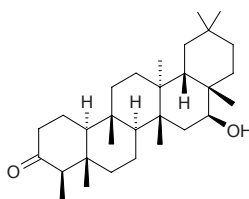
[6911-18-8] C₂₉H₅₀N₂O₂ (458.73). mp 184~185°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**16509 Pachysantermine A**

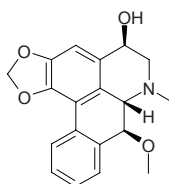
[15027-63-1] C₂₉H₄₈N₂O₂ (456.72). mp 260~263°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

**16510 Pachysonol**

[33465-91-7] C₃₀H₅₀O₂ (442.73). mp 278~280°C. Source: XUE SHAN LIN
Pachysandra terminalis. Ref: 6.

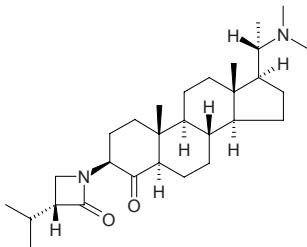
**16511 Pachystaudine**

[67627-76-3] C₁₉H₁₉NO₄ (325.37). mp 157°C, [α]_D = +34° (c = 0.5, CHCl₃).
Pharm: Antiviral (HSV-1, 50% cytotoxic concentration CC₅₀ = 68.0 μmol/L,
effective concentration of inhibiting 50% cell pathological changes ED₅₀ =
47.5 μmol/L, selective index CC₅₀/ED₅₀ = 1.4). Source: SI TUO HOU BING
HUA *Pachypodanthium staudii*, Ref: 3674, 3675, 3676.

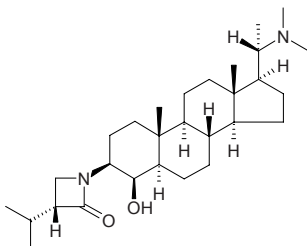


16512 Pachystermine A

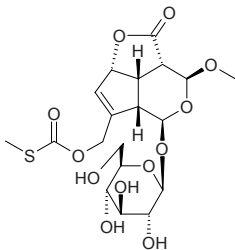
[6156-99-6] C₂₉H₄₈N₂O₂ (456.72). Colorless acicular crystals (dichloromethane–acetone), mp 220–224°C, [α]_D²⁰ = +24° (c = 1.5). Pharm: Prevents ulcer (mus, sc, 50mg/kg); sedative (mus, ip, 100mg/kg); LD₅₀ (mus) = 365.0mg/kg, CD₅₀ (mus) = 148.0mg/kg. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6, 900.

**16513 Pachystermine B**

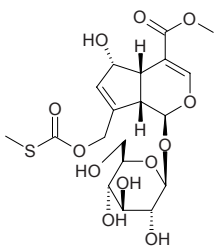
[6157-00-2] C₂₉H₅₀N₂O₂ (458.73). mp 256–258°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**16514 Paederia glucoside 1***

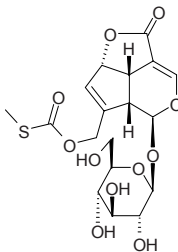
C₁₉H₂₆O₁₂S (478.48). Brown powder, [α]_D²⁰ = –8.6° (c = 1.16, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 1963.

**16515 Paederia glucoside 3***

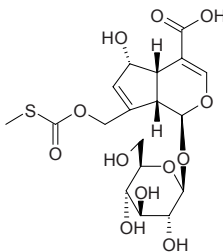
Paederosidic acid methyl ester C₁₉H₂₆O₁₂S (478.48). White powder, [α]_D²⁰ = +12.4° (c = 0.90, MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 1963, 2561.

**16516 Paederoside**

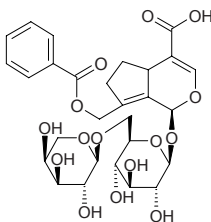
[20547-45-9] C₁₈H₂₂O₁₁S (446.43). mp 122–123°C. Pharm: Laxative. Source: JI SHI TENG *Paederia scandens*, XIE JI CU YE MU *Lasianthus wallichii* (leaf). Ref: 6, 658, 2561, 4238.

**16517 Paederosidic acid**

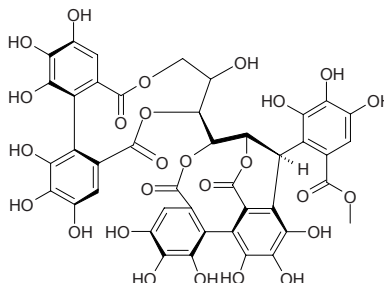
[18842-98-3] C₁₈H₂₄O₁₂S (464.45). Solid +2H₂O, [α]_D²⁴ = +28.2° (MeOH). Source: JI SHI TENG *Paederia scandens*. Ref: 2561, 2562.

**16518 Paederotoside**

10-*O*-Benzoyl-6-*O*-α-arabino(1→6)-β-glucopyranosyl arborescosidic acid C₂₈H₃₄O₁₅ (610.57). [α]_D²⁰ = –29° (c = 0.3, MeOH). Source: *Paederota lutea*. Ref: 3832.

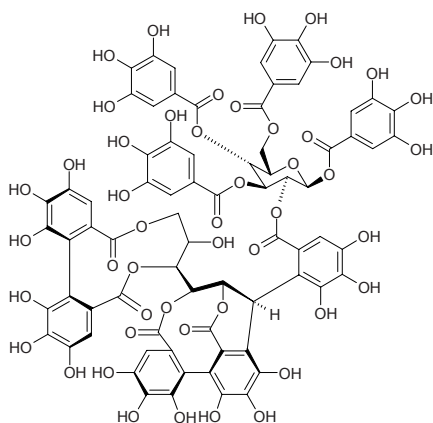
**16519 Paconianiin E**

C₄₂H₃₀O₂₆ (950.69). Isolated as C₄₂H₃₀O₂₆·6H₂O, white amorphous powder, [α]_D = +166.9° (c = 0.7, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0075%fw). Ref: 4695.

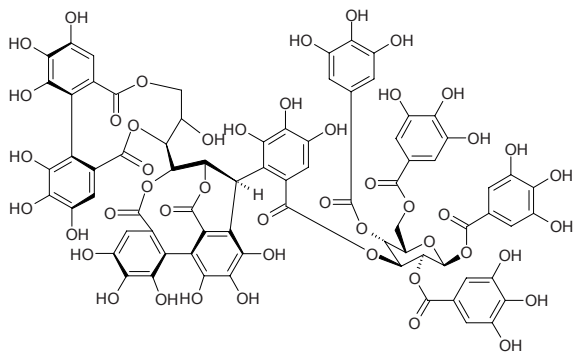


16520 Paeonianin A

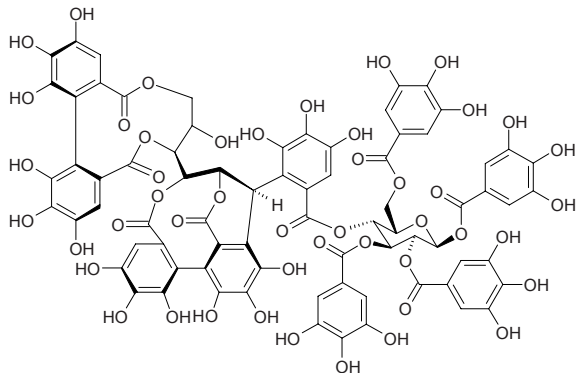
$C_{75}H_{54}O_{47}$ (1707.24). Isolated as $C_{75}H_{54}O_{47} \cdot 10H_2O$, white amorphous powder, $[\alpha]_D = +219.7^\circ$ ($c = 0.7$, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0011%fw). Ref: 4695.

**16521 Paeonianin B**

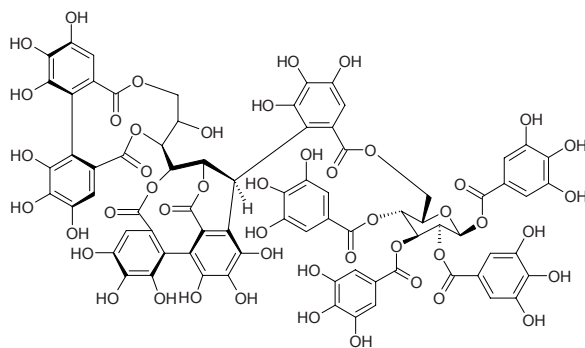
$C_{75}H_{54}O_{47}$ (1707.24). Isolated as $C_{75}H_{54}O_{47} \cdot 11H_2O$, white amorphous powder, $[\alpha]_D = +158.40^\circ$ ($c = 0.5$, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0084%fw). Ref: 4695.

**16522 Paeonianin C**

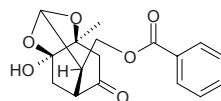
$C_{75}H_{54}O_{47}$ (1707.24). Isolated as $C_{75}H_{54}O_{47} \cdot 9H_2O$, white amorphous powder, $[\alpha]_D = +115.0^\circ$ ($c = 0.7$, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.014%fw). Ref: 4695.

**16523 Paeonianin D**

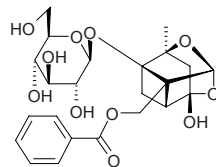
$C_{75}H_{54}O_{47}$ (1707.24). Isolated as $C_{75}H_{54}O_{47} \cdot 8H_2O$, white amorphous powder, $[\alpha]_D = +79.0^\circ$ ($c = 0.7$, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0011%fw). Ref: 4695.

**16524 Paeoniflorigenone**

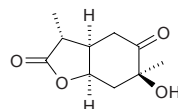
[80454-42-8] $C_{17}H_{18}O_6$ (318.33). Viscous oil, $[\alpha]_D^{25} = +4.3^\circ$ ($c = 0.69$, MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], CHI SHAO *Paeonia lactiflora* wild. Ref: 2, 3123.

**16525 Paeoniflorin**

[23180-57-6] $C_{23}H_{28}O_{11}$ (480.47). White hygroscopic powder, mp 196°C. Pharm: Analgesic; antiallergic; antihypertensive; anti-inflammatory (swollen foot model caused by carrageenan, glucosan rat-paw edema model); antipyretic (normal mus, artificial fever mus model); antispasmodic (rat and gpg intestine *in vitro*, rat and gpg stomach *in vivo*, rat uterine smooth muscle); antiulcerative (rat stress ulcer model); coronary vasodilator (increases coronary flow, used in treatment of coronary heart disease, acute myocardial ischemia); platelet aggregation inhibitor; sedative; lipoxygenase inhibitor (*in vitro*, $IC_{50} = (95.1 \pm 5.0) \mu\text{mol/L}$)^[4319]; LD_{50} (mus, iv) = 3530mg/kg, (mus, ip) = 9530mg/kg. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (dried root: mean content = 2.63%^[5508]), CAO SHAO YAO *Paeonia obovata*, CHI SHAO *Paeonia lactiflora* wild (dried root: mean content = 3.99%^[5533]), CHUAN CHI SHAO *Paeonia veitchii*, DIAN MU DAN *Paeonia delavayi*, MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*] (dried root cortex: content = 1.57%^[5508]), YAO YONG MU DAN *Paeonia officinalis*. Ref: 2, 4, 448, 658, 660, 4319, 5501, 5508, 5533.

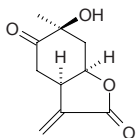
**16526 Paeonilactone A**

[98751-79-2] $C_{10}H_{14}O_4$ (198.22). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 1544.

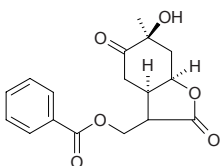


16527 Paeonilactone B

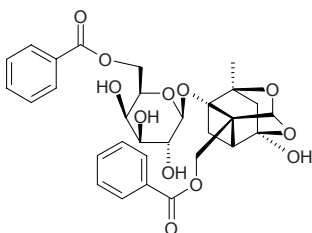
[98751-78-1] C₁₀H₁₂O₄ (196.20). Needles (EtOAc), mp 88–89°C, [α]_D²⁵ = +23.2° (MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 1544.

**16528 Paeonilactone C**

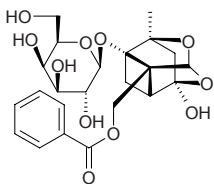
[98751-77-0] C₁₇H₁₈O₆ (318.33). Needles (MeOH aq.), mp 132–133°C, [α]_D²⁵ = –31.6° (MeOH). Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 1544.

**16529 Paeonin A**

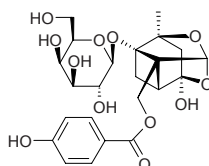
C₃₀H₃₂O₁₂ (584.58). Colorless gummy solid. Pharm: Lipoxigenase inhibitor (*in vitro*, IC₅₀ = 66.1±5.0 μmol/L, control Baicalein IC₅₀ = (22.4±1.3) μmol/L, control Paeoniflorin IC₅₀ = (95.1±5.0) μmol/L). Source: DUO HUA SHAO YAO *Paeonia emodi* (root). Ref: 4319.

**16530 Paeonin B**

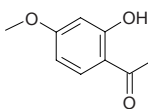
C₂₃H₂₈O₁₁ (480.47). Colorless gummy solid. Pharm: Lipoxigenase inhibitor (*in vitro*, IC₅₀ = 56.9±3.0 μmol/L, control Baicalein IC₅₀ = (22.4±1.3) μmol/L, control Paeoniflorin IC₅₀ = (95.1±5.0) μmol/L). Source: DUO HUA SHAO YAO *Paeonia emodi* (root). Ref: 4319.

**16531 Paeonin C**

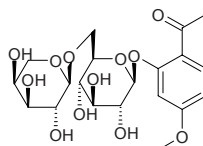
C₂₃H₂₈O₁₂ (496.47). Colorless gummy solid, [α]_D²⁵ = +14.5° (*c* = 0.03, CD₃OD). Pharm: Lipoxigenase inhibitor (IC₅₀ = (99.5±2.5) μmol/L; control Baicalein, IC₅₀ = (22.4±1.3) μmol/L); antioxidant (ABTS^{•+} radical quenching activity, IC₅₀ = (498.2±2.6) μmol/L; Trolox, IC₅₀ = (87.5±0.8) μmol/L). Source: DUO HUA SHAO YAO *Paeonia emodi* (fruit). Ref: 3802.

**16532 Paeonol**

2'-Hydroxy-4'-methoxyacetophenone [552-41-0] C₉H₁₀O₃ (166.18). mp 50°C. Pharm: Analgesic (mus, hot plate model, writhing and aldehyde models); antibacterial (*Staphylococcus aureus*, EC = 500 μg/mL; *Streptococcus faecalis*, EC = 500 μg/mL; *Bacillus coli*, EC = 200 μg/mL; *Bacillus subtilis*, EC = 200 μg/mL); anticonvulsant (induced by electricity or drugs); antihypertensive (anesthetic dog, 80–120 mg/kg iv, decreases blood pressure by 41%–61% and lasts 10–12 min); anti-inflammatory (rat, orl, swollen foot caused by carrageenan, glucosan or acetate acid); antioxidant; antipyretic (normal mus, artificial fever mus); sedative; hypnotic (mus, ip or orl); anti-inflammatory (modulator of cytokine network: inhibits in a concentration-dependent manner the formation of pro-inflammatory cytokines, such as TNF- α , IL-1 β and IL-6); inhibits over-production of NO and PGE₂, a potential candidate for the development of a new anti-inflammatory therapy^{[44][6]}. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (dried root: mean content = 0.0159%^[5508]), CHI SHAO *Paeonia lactiflora* wild (dried root: mean content = 0.0158%^[5508]), ER ZHUANG BAO CHUN HUA *Primula auricula*, HONG HUA PI *Betula platyphylla* var. *japonica*, MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*] (dried root cortex: mean content of 28 origins = 1.44%^[5508]), NIAN BAO CHUN *Primula viscosa*, SANG YE *Morus alba*, XU CHANG QING *Cynanchum paniculatum* (root: mean content = 1.43%^[5508]). Ref: 2, 4, 658, 660, 4416, 5501, 5508.

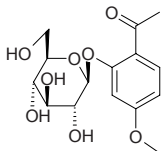
**16533 Paeonolide**

[72520-92-4] C₂₀H₂₈O₁₂ (460.44). Pharm: Platelet aggregation inhibitor. Source: CAO SHAO YAO *Paeonia obovata*, MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*], QIAO MU SHAO YAO *Paeonia arborea*. Ref: 2, 658, 660.

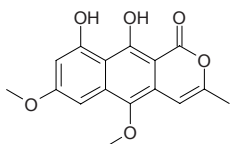


16534 Paeonoside

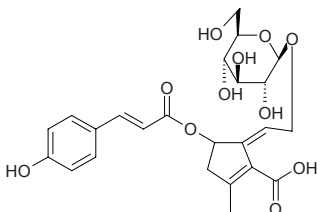
$C_{15}H_{20}O_8$ (328.32). **Pharm:** Platelet aggregation inhibitor. **Source:** MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*], QIAO MU SHAO YAO *Paeonia arborea*. **Ref:** 2, 568.

**16535 Paepalantine**

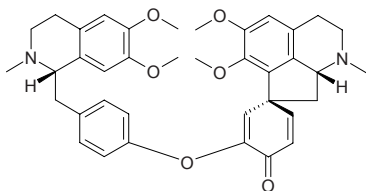
$C_{16}H_{14}O_6$ (302.29). **Pharm:** Anti-inflammatory. **Source:** *Paepalanthus bromelioides* (capitula). **Ref:** 4961.

**16536 Pagoside**

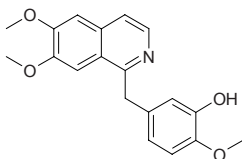
$C_{24}H_{28}O_{11}$ (492.48). **Pharm:** Elastase inhibitor (hmn leukocyte *in vitro*, $IC_{50} = 154\mu\text{g/mL} = 260\mu\text{mol/L}$; control Caffeic acid, $IC_{50} = 86\mu\text{g/mL} = 475\mu\text{mol/L}$). **Source:** NAN FEI GOU MA *Harpagophytum procumbens*. **Ref:** 5458.

**16537 Pakistanamine**

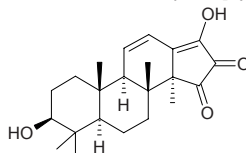
[36506-66-8] $C_{38}H_{42}N_2O_6$ (622.77). mp 93~94°C, $[\alpha]_D = +135^\circ$ ($c = 0.5$, MeOH). **Source:** MEI SUI XIAO BO *Berberis calliobotrys*, TU HUANG LIAN *Berberis julianae*, WA SHI XIAO BO *Berberis valdiviana*, BI LU ZHI XIAO BO *Berberis baluchistanica*, ZHI ZONG ZHUANG HUA XU XIAO BO *Berberis orthobotrys*. **Ref:** 1521.

**16538 Palaudine**

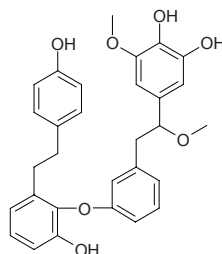
[18694-10-5] $C_{19}H_{19}NO_4$ (325.37). mp 175~176°C. **Source:** YA PIAN *Papaver somniferum*. **Ref:** 6.

**16539 Palbinone**

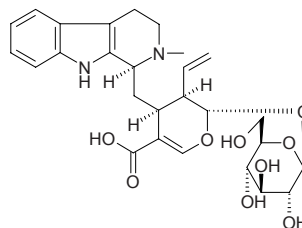
[139954-00-0] $C_{22}H_{30}O_4$ (358.48). Red needles (Et₂O-hexane), mp 254~255°C, $[\alpha]_D = -223.8^\circ$ (CHCl₃). **Pharm:** 3 α -Hydroxysteroid dehydrogenase inhibitor (reduced, $IC_{50} = 0.046\mu\text{mol/L}$, Indomethacin $IC_{50} = 3.2\mu\text{mol/L}$); anti-inflammatory (inhibits hmn monocyte IL-1 β). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. **Ref:** 1207, 3589.

**16540 Paleatin B**

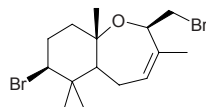
[158848-16-9] $C_{30}H_{30}O_7$ (502.57). Amorphous powder. **Pharm:** Antioxidant ($IC_{50} = 11.7\mu\text{mol/L}$); 5-lipoxidase inhibitor ($IC_{50} = 0.78\mu\text{mol/L}$); cyclooxygenase inhibitor. ($IC_{50} = 45.2\mu\text{mol/L}$). **Source:** ER YI TUO BAO DI QIAN *Marchantia paleacea* var. *diptera*. **Ref:** 3677, 3678.

**16541 Palicoside**

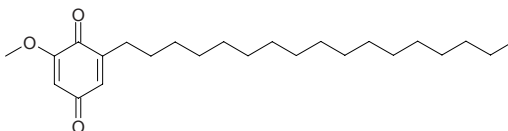
$C_{27}H_{34}N_2O_9$ (530.58). **Source:** *Strychnos mellodora*, *Strychnos vanprukii* (stem). **Ref:** 3471.

**16542 Palisadin B**

[77249-85-5] $C_{15}H_{24}Br_2O$ (380.17). Oli, $[\alpha]_D = +8.8^\circ$ ($c = 1.3$, CHCl₃). **Source:** SHAN ZHUANG AO DING ZAO *Laurencia palisada*. **Ref:** 1521.

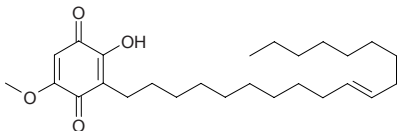
**16543 Pallasone B**

Dihydroirisquinone [78472-08-9] $C_{24}H_{40}O_3$ (376.58). mp 88~89.5°C. **Source:** MA LIN ZI *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*] (spermoderm: mean content = 0.061%^[5508]). **Ref:** 3125, 3126, 5508.

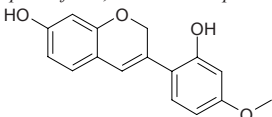


16544 Pallasone C

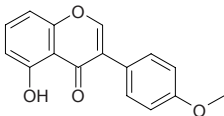
[78472-09-0] C₂₆H₄₂O₄ (418.62). mp 79.5–80.5°C. Source: MA LIN ZI *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*]. Ref: 3125, 3126.

**16545 Pallidiflorene**

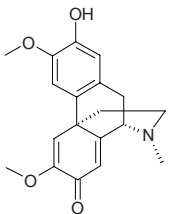
7,2'-Dihydroxy-4'-methoxyisoflav-3-ene; Bolusanthin III C₁₆H₁₄O₄ (270.29). Brown paste. Pharm: Antibacterial (*Escherichia coli*, MIA = 1.0µg, control Chloramphenicol, MIA = 0.001µg; *Bacillus subtilis*, MIA = 0.5µg, Chloramphenicol, MIA = 0.001µg; *Staphylococcus aureus*, MIA = 0.5µg, Chloramphenicol, MIA (0.001µg)^[3785]; antifungal (*Candida mycoderma*, MIA = 0.05µg, control Miconazole, MIA = 0.0001µg)^[3785]; antioxidant (DPPH scavenger, TLC detection limit = 0.1µg, IC₅₀ = 11µg/mL; control Quercetin, TLC detection limit < 0.05µg, IC₅₀ = 7µg/mL; Gallic acid, TLC detection limit < 0.05µg, IC₅₀ = 4µg/mL; Ascorbic acid, TLC detection limit < 0.10µg, IC₅₀ = 18µg/mL)^[3785]. Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora*, *Bolusanthus speciosus* (root wood). Ref: 2431, 3785.

**16546 Pallidiflorin**

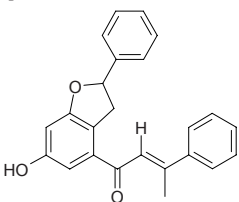
5-Hydroxy-4'-methoxyisoflavone C₁₆H₁₂O₄ (268.27). White lamellar crystals, mp 265–268°C. Source: CI GUO GAN CAO *Glycyrrhiza pallidiflora*. Ref: 166.

**16547 Pallidine**

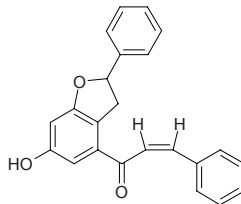
[25650-75-3] C₁₉H₂₁NO₄ (327.38). Source: JU HUA HUANG LIAN *Corydalis pallida*, ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

**16548 Pallidisetin A**

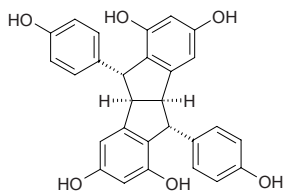
[154037-51-1] C₂₃H₁₈O₃ (342.40). Colorless plate crystals, mp 233°C (dec), [α]_D²⁷ = +20.0° (c = 0.1, CHCl₃). Pharm: Cytotoxic (hmn, melanotic carcinoma RPMI-7951, ED₅₀ = 1.0µg/mL; polymorphism malignancy glioma, ED₅₀ = 1.0µg/mL). Source: CANG MAO JIN FA XUAN *Polytrichum pollidisetum*. Ref: 3679.

**16549 Pallidisetin B**

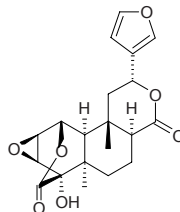
[154098-96-1] C₂₃H₁₈O₃ (342.40). Colorless needles, mp 194°C (dec), [α]_D²⁷ = –29.6° (c = 0.1, CHCl₃). Pharm: Cytotoxic (hmn, melanotic carcinoma RPMI-7951, ED₅₀ = 2.0µg/mL; polymorphism malignancy glioma, ED₅₀ = 2.0µg/mL). Source: CANG MAO JIN FA XUAN *Polytrichum pollidisetum*. Ref: 3679.

**16550 Pallidol**

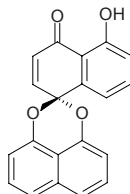
[105037-88-5] C₂₈H₂₂O₆ (454.48). Brown solid, mp > 300°C (dec), [α]_D = 0° (MeOH), [α]_D²³ = –36.3° (c = 0.13, MeOH); [α]_D²⁰ = 0° (c = 0.45, MeOH). Pharm: Cytotoxic (hmn lymphoblast CEM, IC₅₀ = 32µg/mL); PKC inhibitor (rat brain, partly purified PKC, 100µmol/L, InRt = 25%); anti-inflammatory (COX-1 inhibitor, IC₅₀ = 50µmol/L; COX-2 inhibitor, IC₅₀ = 80µmol/L, marginally active)^[3033]. Source: CANG BAI FEN TENG *Cissus pallida*, GUANG YE SHE PU TAO *Ampelopsis brevipedunculata* var. *hancei*, JIN QUE GEN *Caragana sinica*, PU⁽²⁾ TAO *Vitis vinifera* (cell cultures established from pulp fragments of young fruits: yield = 0.00056%fw), LI QI HUAI *Sophora leachiana*. Ref: 1521, 3033, 3722, 3723, 3724, 3725, 3726.

**16551 Palmarin**

[17226-41-1] C₂₀H₂₂O₇ (374.39). Pharm: Bitter principle. Source: FEI ZHOU FANG JI *Jateorhiza palmata*. Ref: 658.

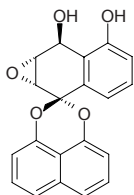
**16552 Palmarumycin CP₁**

C₂₀H₁₂O₄ (316.32). Source: MA FENG SHU *Jatropha curcas* (stem). Ref: 3847.

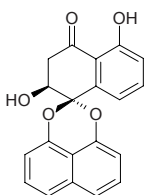


16553 Palmarumycin JC₁

C₂₀H₁₄O₅ (334.33). White crystals, mp 208~210°C, $[\alpha]_D^{25} = +82.5^\circ$ ($c = 0.5$, MeOH). Source: MA FENG SHU *Jatropha curcas* (stem). Ref: 3847.

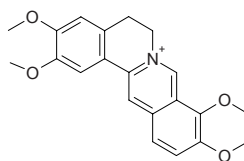
**16554 Palmarumycin JC₂**

C₂₀H₁₄O₅ (334.33). Semi solid, mp 192~194°C, $[\alpha]_D^{25} = +131.9^\circ$ ($c = 0.5$, CHCl₃). Source: MA FENG SHU *Jatropha curcas* (stem). Ref: 3847.

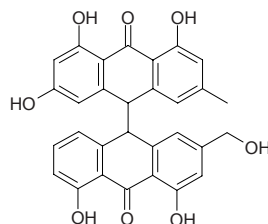
**16555 Palmatine**

Berbericinine [3486-67-7] C₂₁H₂₂NO₄⁺ (352.41). mp 198~201°C. Pharm: Analgesic; antiarrhythmic; antibacterial (*Staphylococcus aureus* and *Sporothrix* sp., EC = 500µg/mL, *Bacillus dysenteriae*, *B. coli*, *β-Streptococcus* and 12 strains of molds); antifungal (*Candida albicans*, EC = 250µg/mL); antiviral (Asia α -Influenza virus); enhances myocardial contractility; cholinesterase inhibitor; antitrypanosomal (the iodide kills Lewis-trypanosome); reduces area of myocardial infarction (rbt, *in vivo*, chloride 0.75mg/kg, iv); LD₅₀ (mus, iv, sulfocyanate) = 98µg/kg. Source: BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.048%)^[5508], CHENG KOU SHI DA GONG LAO *Mahonia shenii* (stem: content = 0.33%)^[5510], CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.01%)^[5508], CHUAN DIAN SHI DA GONG LAO *Mahonia veitchiorum* (stem: content = 0.19%)^[5510], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: content = 0.02%)^[5508], DUAN E HUANG LIAN *Coptis chinensis* var. *breviseipala* (rhizome: content = 0.65%)^[5508], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.100%)^[5508], E MEI YE HUANG LIAN *Coptis omeiensis* (rhizome: content = 1.03%)^[5508], FEI ZHOU FANG JI *Jateorhiza palmata*, GU LIN YE LIAN *Coptis gulinensis* (rhizome: content = 0.88%)^[5508], HAI SONG ZI *Pinus koraiensis*, HU BEI SHI DA GONG LAO *Mahonia confusa* (stem: content = 0.03%)^[5510], HUA NAN GONG LAO MU *Mahonia japonica* (stem: content = 0.19%)^[5510], HUA NAN GONG LAO YE *Mahonia japonica*, HUANG BAI *Phellodendron amurense* (bark: mean content of 6 batches = 0.67%)^[5508], HUANG LIAN *Coptis chinensis* (rhizome: mean content = 1.94%)^[5508], HUANG PI SHU *Phellodendron chinense* (bark: content scope = 0.372%~0.590%)^[5501], HUANG YE DI BU RONG *Stephania viridiflavens*,

HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.026%)^[5508], JIN GUO LAN *Tinospora capillipes*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.001%)^[5508], KUAN BAO SHI DA GONG LAO *Mahonia eurybracteata* (stem: mean content of 3 origins = 0.06%)^[5510], MA WEI LIAN *Thalictrum foliolosum* (root: content = 0.32%)^[5508], QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.01%)^[5508], RI BEN XIAO BO *Berberis thunbergii*, SAN JIAO YE HUANG LIAN *Coptis deltoidea* (rhizome: mean content = 0.98%)^[5508], SHAO CHI XIAO BO *Berberis potaninii* (root, stem: mean content = 0.144%)^[5508], SHI DA GONG LAO MU *Mahonia bealei* (stem: mean content of 4 origins 0.11%)^[5510], TIAN XIAN TENG *Fibraurea recisa* (dried lianoid stem: content = 2.71%)^[5508], WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*] (stem: mean content of 4 origins = 0.19%)^[5510], XI BING SHI DA GONG LAO *Mahonia gracilipes* (stem: mean content of 4 origins = 0.14%)^[5510], XI YE GONG LAO MU *Mahonia fortunei* (stem: mean content of 4 origins = 0.05%)^[5510], XI YE GONG LAO YE *Mahonia fortunei*, XI YE XIAO BO *Berberis poiretii*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.07%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAN E HUANG LIAN *Coptis linearisepala* (rhizome: content = 0.85%)^[5508], XIAN HUANG XIAO BO *Berberis diaphana* (root and stem: mean content = 0.082%)^[5508], XIAO BO *Berberis amurensis*, XIAO GUO SHI DA GONG LAO *Mahonia bodinieri* (stem: content = 0.13%)^[5510], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*] (rhizome: mean content of 5 origins = 0.080%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508], YUN NAN HUANG LIAN *Coptis teetoides* [Syn. *Coptis teeta*] (rhizome: mean content = 0.69%)^[5508], ZHI YI XIAO BO *Berberis dubia* (root and stem: mean content = 0.182%)^[5508], occurs in many plants (mostly in *Berberis* spp. and *Mahonia* spp. in family Berberidaceae spp.; but spread into many families). Ref: 2, 4, 408, 658, 660, 5501, 5508, 5510.

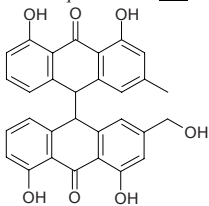
**16556 Palmidin A**

[17062-55-4] C₃₀H₂₂O₈ (510.51). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

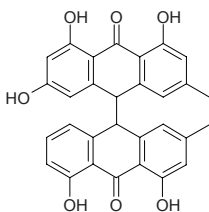


16557 Palmidin B

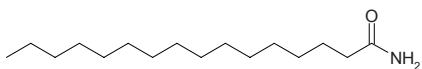
[17062-56-5] C₃₀H₂₂O₇ (494.51). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

**16558 Palmidin C**

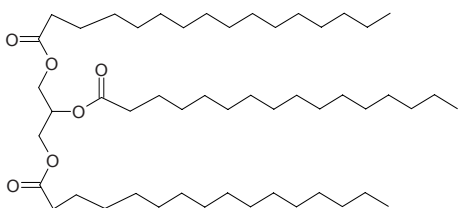
[17177-86-5] C₃₀H₂₂O₇ (494.51). Source: DA HUANG *Rheum officinale*, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660, 1521.

**16559 Palmitamide**

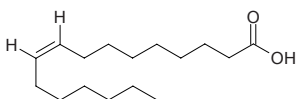
Hexadecanamide [629-54-9] C₁₆H₃₃NO (255.45). mp 106~107°C, bp 235~236°C/12mmHg. Source: BAI JIANG CAN *Bombyx mori*, XIANG ROU GUO *Casimiroa edulis*. Ref: 1521, 3127.

**16560 Palmitin**

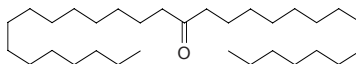
[555-44-2] C₅₁H₉₈O₆ (807.35). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**16561 Palmitoleic acid**

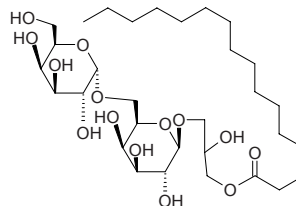
cis-9-Hexadecenoic acid [373-49-9] C₁₆H₃₀O₂ (254.42). Pharm: A major component of lipids of marine plants and animals, also found in plant oils, eg. *Macadamia ternifolia* (small-fruited Macadamia nut) seed oil (20%) Source: AO ZHOU JIAN GUO *Macadamia ternifolia* (seed oil, 20%), BAN WEN LU HUI *Aloe vera* var. *chinensis*, CU LIU GUO *Hippophae rhamnoides*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUA LOU *Trichosanthes kirilowii*, MAN JING ZI *Vitex trifolia*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XING REN *Prunus armeniaca*, YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0095%dw)^[4655], YOU ZONG *Elaeis guineensis*. Ref: 2, 658, 660, 1521, 4655.

**16562 Palmitone**

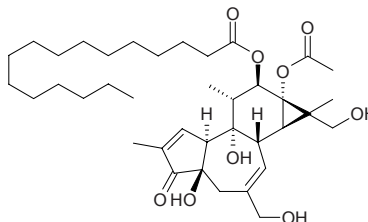
[502-73-8] C₃₁H₆₂O (450.84). mp 82.8°C. Source: ZHEN CAI *Litsea pungens*. Ref: 6.

**16563 1'-O-Palmitoyl-3'-O-(6-O-α-D-galactopyranosyl-β-D-galactopyranosyl)glycerol**

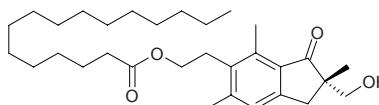
C₃₁H₅₈O₁₄ (654.80). Source: KONG SHI CHUN *Ulva pertusa*. Ref: 3128.

**16564 12-O-Palmitoyl-16-hydroxyphorbol-13-acetate**

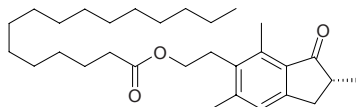
C₃₈H₆₀O₉ (660.90). Pharm: Fish toxin. Source: TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*] (fruit). Ref: 658.

**16565 Palmitoylpterosin A**

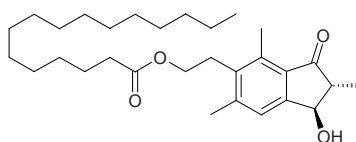
C₃₁H₅₀O₄ (486.74). mp 50~51°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**16566 Palmitoylpterosin B**

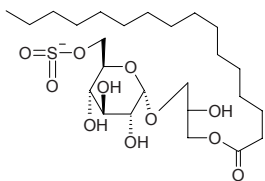
C₃₀H₄₈O₃ (456.72). mp 51~52°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**16567 Palmitoylpterosin C**

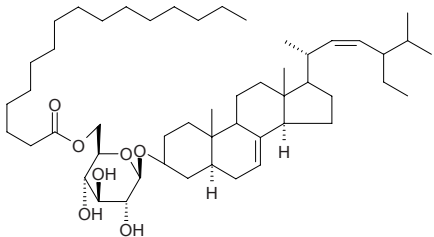
C₃₀H₄₈O₄ (472.71). mp 95~97°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.



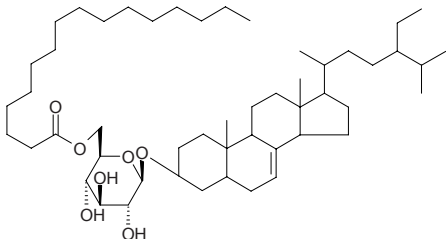
16568 1'-O-Palmitoyl-3'-O-(6-sulfo-O- α -D-quinovopyranosyl)glycerol
 $C_{25}H_{47}O_{11}S$ (555.71). Source: KONG SHI CHUN *Ulva pertusa*. Ref: 3128.



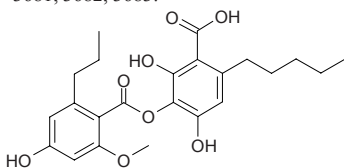
16569 6'-Palmityl- α -spinasteryl- β -D-glucoside
 $C_{51}H_{88}O_7$ (813.27). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 2960.



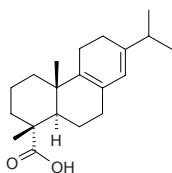
16570 6'-Palmityl- Δ^7 -spinasteryl- β -D-glucoside
 $C_{51}H_{90}O_7$ (815.28). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 2960.



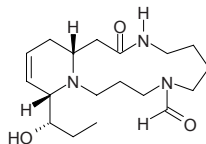
16571 Paludolic acid
 [19833-81-9] $C_{23}H_{28}O_8$ (432.47). Colorless needles (cyclohexane–benzene–EtOAc), mp 170–171°C. Pharm: Anti-inflammatory (rbt kidney microsomes, ostaglandin biosynthesis inhibitor, $IC_{50} = 1.0\mu\text{mol/L}$, control Indometacin, $IC_{50} = 4.9\mu\text{mol/L}$, Aspirin, $IC_{50} = 2.0\mu\text{mol/L}$); Source: LA BA FEN SHI RUI *Cladonia chlorophaea*, ZHAO ZE SHU HUA *Ramalina paludosa*. Ref: 3680, 3681, 3682, 3683.



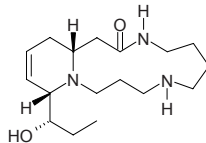
16572 Palustric acid
 8,13-Abietadien-18-oic acid [1945-53-5] $C_{20}H_{30}O_2$ (302.46). Crystals (methanol), mp 162–167°C, $[\alpha]_D = +71.6^\circ$ (ethanol). Pharm: Platelet aggregation inhibitor (rbt, due to PAF, ADP and calcium); insect antifeedant (*Neodiprion species*). Source: SONG XIANG *Pinus massoniana*. Ref: 900.



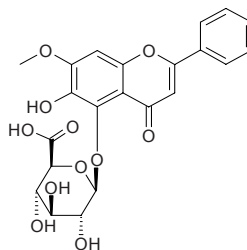
16573 Palustridine
 [22324-43-2] $C_{18}H_{31}N_3O_3$ (337.47). Source: GU JIE CAO *Equisetum palustre*. Ref: 6.



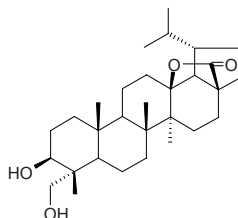
16574 Palustrine
 [22324-44-3] $C_{17}H_{31}N_3O_2$ (309.46). Source: MU ZEI *Equisetum hiemale*. Ref: 2.



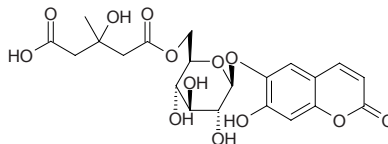
16575 Palustrinoside
 [29673-46-9] $C_{22}H_{20}O_{11}$ (460.40). Source: GUANG YE SHUI SU *Stachys palustris*. Ref: 6.



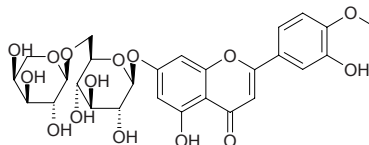
16576 Palustrolide
 [93772-37-3] $C_{30}H_{48}O_4$ (472.71). Crystals (MeOH), mp 310°C (dec). Source: MA TI YE *Caltha palustris*. Ref: 3129.



16577 Palustroside
 [132923-05-8] $C_{21}H_{24}O_{13}$ (484.42). Source: LA BA CHA *Ledum palustre*. Ref: 913, 1521.

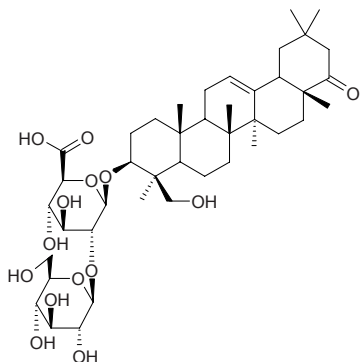


16578 Palustroside‡
 [26931-72-6] $C_{27}H_{30}O_{15}$ (594.53). mp 178–180°C. Source: PENG ZI CAI *Galium verum*. Ref: 6.

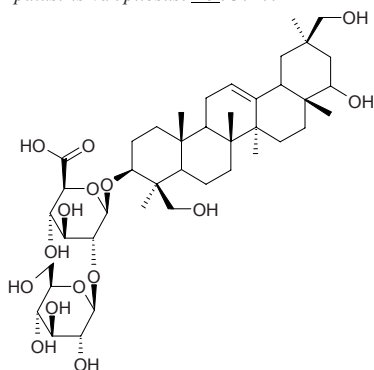


16579 Palustroside I

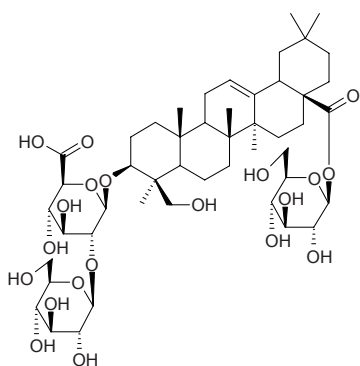
[214692-84-9] C₄₂H₆₆O₁₄ (794.99). White powder, $[\alpha]_D^{25} = -9.8^\circ$ ($c = 0.52$, pyridine:H₂O = 1:1). **Pharm:** Inhibits liver damage (culture rat liver cell, *in vitro* immunoassay of liver damage, 90 μ mol/L protective rate = 46%, 200 μ mol/L protective rate = 86%). **Source:** ROU MAO SHAN LI DOU *Lathyrus palustris* var. *pilosus*. **Ref:** 3727.

**16580 Palustroside II**

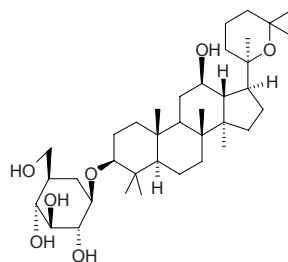
[214692-91-8] C₄₂H₆₈O₁₅ (813.00). White powder, $[\alpha]_D^{25} = +0.50^\circ$ ($c = 0.68$, pyridine). **Pharm:** Inhibits liver damage (culture rat liver cell, *in vitro* immunoassay of liver damage, 200 μ mol/L protective rate = 54%, 500 μ mol/L protective rate = 81%). **Source:** ROU MAO SHAN LI DOU *Lathyrus palustris* var. *pilosus*. **Ref:** 3727.

**16581 Palustroside III**

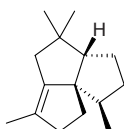
[214692-99-6] C₄₈H₇₆O₂₀ (973.13). White powder, $[\alpha]_D^{25} = -4.6^\circ$ ($c = 0.52$, pyridine:H₂O = 1:1). **Pharm:** Inhibits liver damage (culture rat liver cell, *in vitro* immunoassay of liver damage, 200 μ mol/L protective rate = 26%, 500 μ mol/L protective rate = 62%). **Source:** ROU MAO SHAN LI DOU *Lathyrus palustris* var. *pilosus*. **Ref:** 3727.

**16582 Panacon**

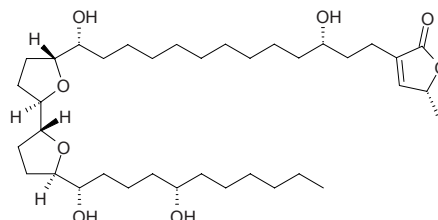
C₃₇H₆₄O₇ (620.92). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 6.

**16583 Panaginsene**

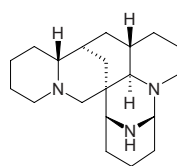
(1*S**,8*S**,11*R**)-4,7,7,11-Tetramethyl-tricyclo[6.3.0.0^{1,5}]-undec-4-ene C₁₅H₂₄ (204.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5330.

**16584 Panalicin**

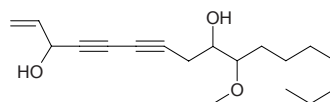
[133594-25-9] C₃₇H₆₆O₈ (638.93). Waxy solid. **Pharm:** Antimicrobial; anthelmintic. **Source:** NA ER ZI YU PAN *Uvaria narum*. **Ref:** 3684, 3685.

**16585 Panamine**

[2448-27-3] C₂₀H₃₃N₃ (315.51). Liquid, $[\alpha]_D = -11^\circ$, autoxidises in air. **Source:** *Ormosia* spp. **Ref:** 1521.

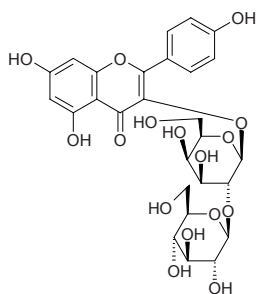
**16586 Panaquinquecol 1**

PQ-1; 10-Methoxyheptadeca-1-ene-4,6-di-yne-3,9-diol [133921-57-0] C₁₈H₂₈O₃ (292.42). Oil, $[\alpha]_D = -21.7^\circ$ ($c = 0.58$, methanol). **Pharm:** Cytotoxic (L₁₂₁₀, 0.5~1.0 μ g/mL, InRt = 100%). **Source:** XI YANG SHEN *Panax quinquefolium*. **Ref:** 2, 1017, 1521.

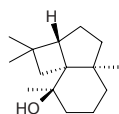


16587 Panasenoid

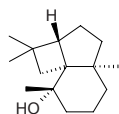
Kaempferol-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside] [31512-06-8] C₂₇H₃₀O₁₆ (610.53). Crystals (EtOH), mp 225–228°C (dec). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, 0.1 μ mol/L, cell viability = (4.6 \pm 3.6)%), 1.0 μ mol/L, cell viability = (27.0 \pm 4.9)%, $p < 0.05$, 10 μ mol/L, cell viability = (25.2 \pm 3.6)%, $p < 0.05$)^[3027]; anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ > 100 μ mol/L, positive control Adriamycin, IC₅₀ = 27 μ mol/L; DDDP inhibitor, IC₅₀ > 100 μ mol/L, positive control Adriamycin, IC₅₀ = 6 μ mol/L; HIV-1 IN inhibitor, IC₅₀ = 59 μ mol/L, positive control Suramin, IC₅₀ = 2.4 μ mol/L)^[4187]. **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00041%)^[3027], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA JIA ZHU TAO *Thevetia neriifolia* [Syn. *Thevetia peruviana*] (leaf), LAN SHAI PIAO *Sambucus sieboldiana*, QING LIANG BAI HE *Lilium candidum*, REN SHEN YE *Panax ginseng* [Syn. *Panax schinseng*], *Hypericum* spp. **Ref:** 660, 3027, 3121, 3130, 3131, 4187.

**16588 Panasinsanol A**

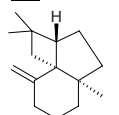
[80374-27-2] C₁₅H₂₆O (222.37). Oil, [α]_D²⁵ = -51.9° ($c = 0.54$, CHCl₃). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3132.

**16589 Panasinsanol B**

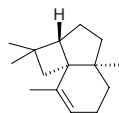
[109785-99-1] C₁₅H₂₆O (222.37). Oil, [α]_D²⁵ = -44.3° ($c = 0.70$, CHCl₃). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3132.

**16590 β -Panasinsene**

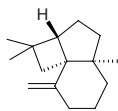
C₁₅H₂₄ (204.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5330.

**16591 α -Panasinsene**

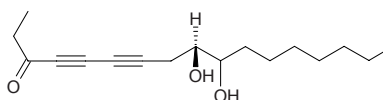
10-Panasinsanene [56633-28-4] C₁₅H₂₄ (204.36). Oil. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2616.

**16592 β -Panasinsene**

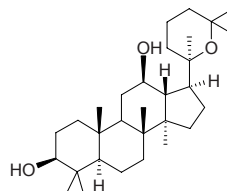
3(15)-Panasinsanene [56684-97-0] C₁₅H₂₄ (204.36). Oil. [α]_D²⁵ = -3°C (MeOH). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2616.

**16593 Panaxacol**

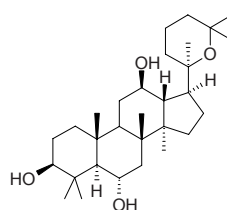
[106828-96-0] C₁₇H₂₆O₃ (278.39). Colorless solid, rapid polymerization at room temperature, [α]_D²² = +19.5° ($c = 1.0$, MeOH). **Pharm:** Antineoplastic (Yoshida sarcoma, 10 μ g/mL, InRt = 95%, 25 μ g/mL *in vitro*, InRt = 100%). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 3728, 3729.

**16594 Panaxadiol**

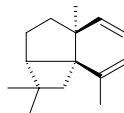
[19666-76-3] C₃₀H₅₂O₃ (460.75). mp 250°C. **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (dried whole herb: content = 0.5345%)^[5508], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (root: content = 1.92 \pm 2.10%)^[5508]. **Ref:** 6, 5508.

**16595 Panaxatriol**

[32791-84-7] C₃₀H₅₂O₄ (476.75). mp 238–239°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (root: content = 2.71 \pm 1.36%)^[5508]. **Ref:** 6, 5508.

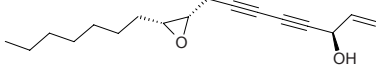
**16596 Panaxene**

(1*R**,2*S**,5*S**)-2-Ethenyl-1-(1-methylethenyl)-2,6,6-trimethylbicyclo[3.2.0]heptane C₁₅H₂₄ (204.36). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 5330.

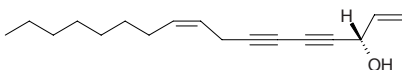


16597 Panaxydol[72800-72-7] C₁₇H₂₄O₂ (260.38). Yellow oil, [α]_D = -19.5° (c = 0.7, MeOH).

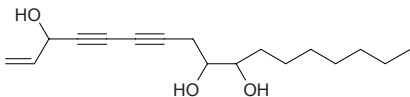
Pharm: Antibacterial (strongly inhibits *Staphylococcus aureus*); cytotoxic (tissue culture *in vitro*, inhibits growth of leukaemia cells). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI YANG SHEN *Panax quinquefolium*, *Niphogeton ternata*. **Ref:** 1570, 2995, 4156.

**16598 Panaxynol**

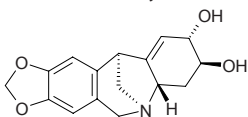
[81203-57-8] C₁₇H₂₄O (244.38). **Pharm:** Antibacterial (*Staphylococcus aureus*); allergenic; dermatitic (causes contact dermatitis). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.011%dw). **Ref:** 658, 1570, 4702.

**16599 Panaxytriol**

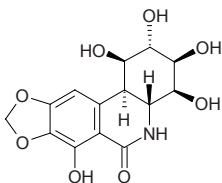
[87005-03-6] C₁₇H₂₆O₃ (278.39). Colorless lamellar crystals, mp 78~79°C. **Pharm:** Antiviral (EBV); cytotoxic (MK1, B16 melanoma, L929, SW620 and HeLa); antihypercholesterolemic (inhibits cholesterol and LDL and relates to cholestera transfer protein, IC₅₀ = 35µg/mL). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 2, 900.

**16600 (-)-Pancracine**

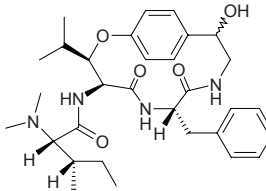
C₁₆H₁₇NO₄ (287.32). **Pharm:** Antibacterial (*Staphylococcus aureus*, IZD = 22mm, MIC = 188µg/mL; *Pseudomonas aeruginosa*, IZD = 16mm); antifungal (*Candida albicans*, IZD = 15mm, MIC = 188µg/mL). **Source:** GU TING HUA *Amaryllis belladonna* (bulb). **Ref:** 3829.

**16601 Pancratistatin**

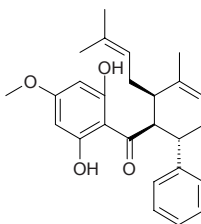
[96203-70-2] C₁₄H₁₅NO₈ (325.28). **Pharm:** Cytotoxic (P₃₈₈ *in vitro*, ED₅₀ = 0.01µg/mL, P₃₈₈ *in vivo*, 0.75~12.5mg/kg, biotic prolonged rate = (38~106)%; also effective to M5076 ovarian sarcoma); antineoplastic (shows high antineoplastic activity in NCI's 60 tumor system, the highest activity is of melanotic carcinoma, also shows high activity for carcinoma in brain, colon, lung and kidney, in stage of pre-clinic); antiviral (RNA virus, B encephalitis affected mus, after injection survival rate increases 100%; also effective to yellow fever virus and bunyavirus). **Source:** FENG YU HUA *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*]. **Ref:** 658, 1804, 1805, 1806, 1807.

**16602 Pandamine**

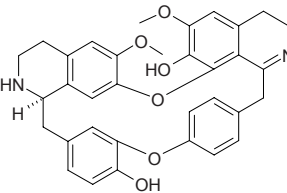
[10233-81-5] C₃₁H₄₄N₄O₅ (552.72). **Pharm:** Inhibits oxidative phosphorylation (plants). **Source:** *Panda oleosa*. **Ref:** 658.

**16603 Panduratin A**

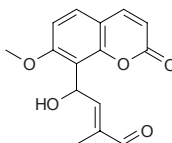
C₂₆H₃₀O₄ (406.53). **Pharm:** Anti-inflammatory (*in vitro*, NO production inhibitor, IC₅₀ = 0.0175µmol/L; PGE₂ production inhibitor, IC₅₀ = 0.0195µmol/L; suppresses both iNOS and COX-2 enzyme expression without any appreciable cytotoxic effect on RAW264.7 cells in a dose-dependent manner). **Source:** TI QIN ZHUANG SHAN NAI *Kaempferia pandurata*. **Ref:** 5488.

**16604 Pangkorimine**

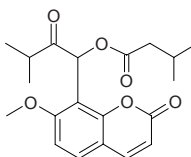
C₃₄H₃₂N₂O₆ (564.64). **Pharm:** Antitrypanosomal (inhibits trypanosome form of *Trypanosoma cruzi*, strain Y, IC₅₀ = 114.8µg/mL, IC₉₀ = 245.9µg/mL); antimalarial (*Plasmodium falciparum* D6, LC₅₀ = 134.7ng/mL, SI = 19; *Plasmodium falciparum* W2, LC₅₀ = 284.5ng/mL, SI = 9); cytotoxic (KB, LC₅₀ = 2600ng/mL). **Source:** *Gutteria boliviana* (stem cortex). **Ref:** 3976.

**16605 Panial**

[112606-74-3] C₁₃H₁₄O₅ (274.28). Oil, [α]_D = -6.8° (c = 0.074, CHCl₃). **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 2810.

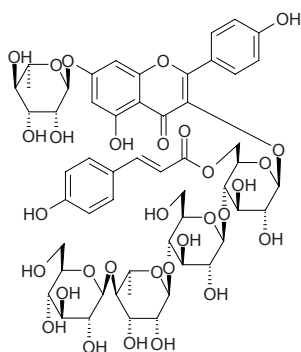
**16606 Paniculatin**

[36072-13-6] C₂₀H₂₄O₆ (360.41). mp 263°C. **Source:** JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. **Ref:** 6.

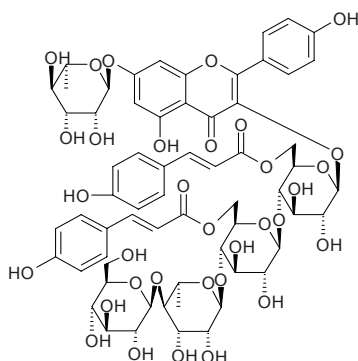


16607 Panicalatonoid A

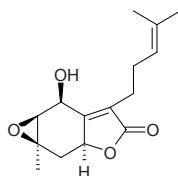
$C_{54}H_{66}O_{31}$ (1211.11). Yellow solid, mp 210~212°C. Source: LUAN SHU *Koeleruteria paniculata*. Ref: 846.

**16608 Panicalatonoid B**

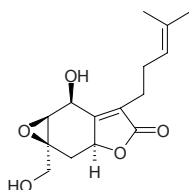
$C_{63}H_{72}O_{33}$ (1357.26). Yellow solid, mp 200~201°C. Source: LUAN SHU *Koeleruteria paniculata*. Ref: 846.

**16609 Paniculide A**

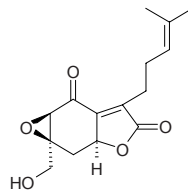
[21764-32-9] $C_{15}H_{20}O_4$ (264.32). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 1521.

**16610 Paniculide B**

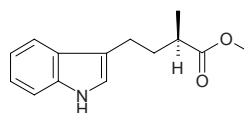
[21764-33-0] $C_{15}H_{20}O_5$ (280.32). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 1521.

**16611 Paniculide C**

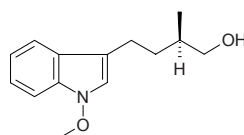
[21764-34-1] $C_{15}H_{18}O_5$ (278.31). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*]. Ref: 2, 1521.

**16612 Paniculidine A**

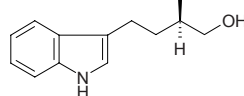
[97399-93-4] $C_{14}H_{17}NO_2$ (231.30). Oil, $[\alpha]_D^{24} = -31.9^\circ$ ($c = 0.1$, $CHCl_3$). Source: JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 3133.

**16613 Paniculidine B**

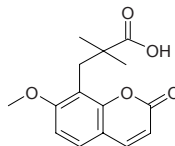
[97399-94-5] $C_{14}H_{19}NO_2$ (233.31). Oil, $[\alpha]_D^{20} = +21^\circ$ ($c = 0.025$, $CHCl_3$). Source: JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 3133.

**16614 Paniculidine C**

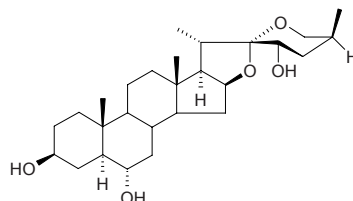
Paniculol [97399-95-6] $C_{13}H_{17}NO$ (203.29). Oil, $[\alpha]_D^{20} = +45^\circ$ ($c = 0.035$, $CHCl_3$). Source: JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 3133.

**16615 Paniculin**

[112397-12-3] $C_{15}H_{16}O_5$ (276.29). Needles (MeOH), mp 236~238°C. Source: JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 1336.

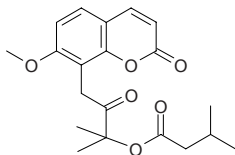
**16616 Paniculogenin**

[16750-37-1] $C_{27}H_{44}O_5$ (448.65). mp 214~216°C. Source: SHUI QIE *Solanum torvum*. Ref: 6.

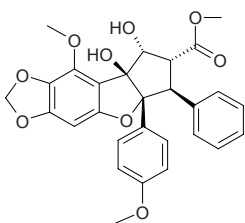


16617 Paniculonol isovalerate

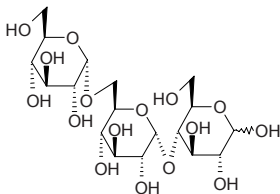
$C_{20}H_{24}O_6$ (360.41). Oil. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 3134.

**16618 Pannellin**

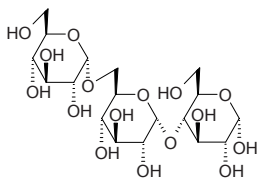
$C_{28}H_{26}O_9$ (506.51). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, survival rate $LC_{50} = 2.1\mu\text{g/g}$, control Azadirachtin, survival rate $LC_{50} = 6.1\mu\text{g/g}$; growth inhibition $EC_{50} = 0.24\mu\text{g/g}$, Azadirachtin, growth inhibition $EC_{50} = 0.11\mu\text{g/g}$)^[2355]. Source: KE SHI MI ZI LAN *Aglaia edulis*. Ref: 2355.

**16619 Panose**

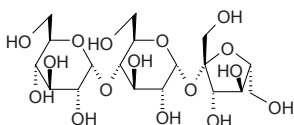
[33401-87-5] $C_{18}H_{32}O_{16}$ (504.45). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2, 1521.

**16620 Panose B**

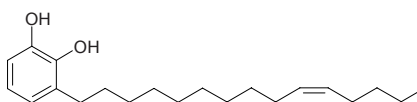
$C_{18}H_{32}O_{16}$ (504.45). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**16621 Panose C**

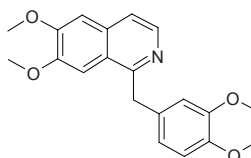
$C_{18}H_{32}O_{16}$ (504.45). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**16622 3-(Pantadec-10-enyl)-catechol**

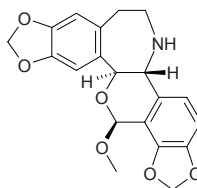
[83532-37-0] $C_{21}H_{34}O_2$ (318.50). Colorless oil. Pharm: Sensitizer (hmn). Source: SHENG MU *Lithraea caustica*, YI YE ROU TUO GUO *Semecarpus heterophylla*. Ref: 1521, 3693.

**16623 Papaverine**

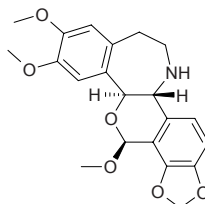
6,7-Dimethoxy-1-veratrylisoquinoline [58-74-2] $C_{20}H_{21}NO_4$ (339.39). Needles, mp 147~148°C, soluble in ethanol, acetone, hot benzene, slightly soluble in water.^[5507] Pharm: Antineoplastic; antitussive; choleric; platelet aggregation inhibitor; smooth muscle relaxant (hmn, dog); intestinal smooth muscle relaxant (*in vitro*, rat ileum, 1μg/mL, relaxant effect = (28.6±7.3)%, $p < 0.05$)^[5002]; LD₅₀ (mus, iv) = 46.3mg/kg, (rat, orl) = 750mg/kg, (mus, orl) = 528mg/kg. Source: BAI HUA YING SU *Papaver album*, BAI YAO ZI *Stephania cepharantha*, YA PIAN *Papaver somniferum* (latex from unripe capsules: content scope = 0.8%~1.0%)^[5507], YIN DU LUO FU MU *Rauwolfia serpentina*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 4, 5, 6, 658, 5002, 5507.

**16624 Papaverrubine A**

[6807-93-8] $C_{20}H_{19}NO_6$ (369.38). mp 223~225°C, $[\alpha]_D^{22} = +406^\circ$ ($c = 0.978$, $CHCl_3$). Source: HUO XIANG YE LV RONG HAO *Meconopsis betonicifolia*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], *Papaver* spp. Ref: 1521, 2993.

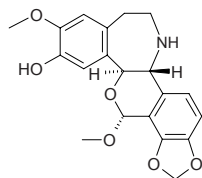
**16625 Papaverrubine B**

[5140-39-6] $C_{21}H_{23}NO_6$ (385.42). Crystals (MeOH), mp 202~204°C, 201~203°C, $[\alpha]_D = +398^\circ$ ($CHCl_3$). Source: BO SI YING SU *Papaver persicum*, CHANG GUO YING SU *Papaver dubium*, DA HONG YING SU *Papaver bracteatum*, GAO JIA SUO YING SU *Papaver caucasicum*, GAO SHAN YING SU *Papaver alpinum*, JIN DONG YING SU *Papaver orientale*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], YE YING SU *Papaver nudicaule*, YA PIAN *Papaver somniferum*. Ref: 6, 1521.

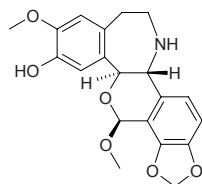


16626 Papaverrubine C

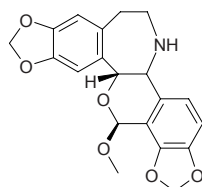
[22584-46-9] $C_{20}H_{21}NO_6$ (371.39). Prisms (C_6H_6 -pet. ether), mp 190–191.5°C, $[\alpha]_D = +283^\circ$ ($CHCl_3$). Source: HUO XIANG YE LV RONG HAO *Meconopsis betonicifolia*, YA PIAN *Papaver somniferum*. Ref: 6, 1521.

**16627 Papaverrubine D**

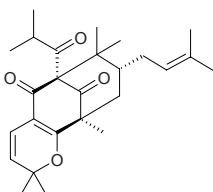
Porphyroxine [18104-24-0] $C_{20}H_{21}NO_6$ (371.39). Needles (MeOH), mp 237–239°C, 234–236°C, $[\alpha]_D = +391^\circ$ ($CHCl_3$). Source: DUO CI LV RONG HAO *Meconopsis horridula*, HUO XIANG YE LV RONG HAO *Meconopsis betonicifolia*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], NI BO ER LV RONG HAO *Meconopsis nepaulensis*, YA PIAN *Papaver somniferum*, *Meconopsis* spp., *Papaver* spp. Ref: 6, 660, 1521, 2979, 2993.

**16628 Papaverrubine E**

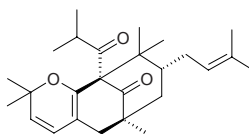
[6807-95-0] $C_{20}H_{19}NO_6$ (369.38). mp 230–231°C, $[\alpha]_D = +331^\circ$ ($CHCl_3$). Source: DUO CI LV RONG HAO *Meconopsis horridula*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], NI BO ER LV RONG HAO *Meconopsis nepaulensis*, YA PIAN *Papaver somniferum*, GUAN ZHUANG MEI YIN SU *Bocconia frutescens*, *Meconopsis* spp., *Papaver* spp. Ref: 660, 1521, 2993, 2979.

**16629 Papuaforin A**

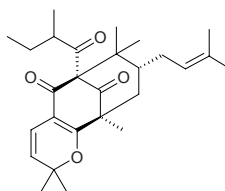
$C_{26}H_{36}O_4$ (412.57). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). Source: *Hypericum papuanum*. Ref: 5371.

**16630 Papuaforin B**

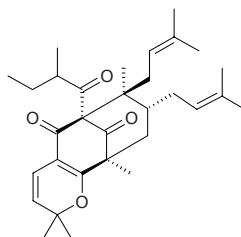
$C_{26}H_{38}O_3$ (398.59). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst). Source: *Hypericum papuanum*. Ref: 5371.

**16631 Papuaforin C**

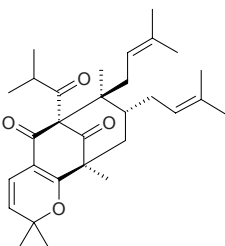
$C_{27}H_{38}O_4$ (426.60). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst)^[5371]. Source: *Hypericum papuanum*. Ref: 5371.

**16632 Papuaforin D**

$C_{31}H_{44}O_4$ (480.69). Pharm: Antioxidant inactive (PMN cellular chemiluminescence assay, FMLP-induced and OZ-induced oxidative burst)^[5371]. Source: *Hypericum papuanum*. Ref: 5371.

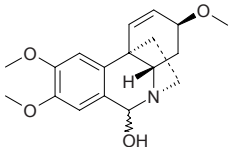
**16633 Papuaforin E**

$C_{30}H_{42}O_4$ (466.67). Pharm: Antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, $IC_{50} = (8.0 \pm 1.0) \mu\text{mol/L}$, control Quercetin, $IC_{50} = (0.5 \pm 0.1) \mu\text{mol/L}$; OZ-induced, inactive)^[5371]. Source: *Hypericum papuanum*. Ref: 5371.

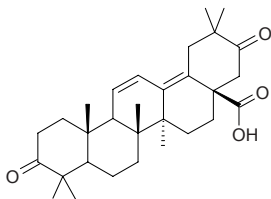


16634 Papyramine

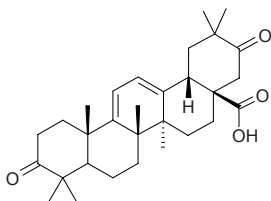
[81149-33-9] C₁₈H₂₃NO₄ (317.39). mp 137~138°C. Pharm: Cytotoxic (hmn lymphoma Molt4, ED₅₀ = 15.8µg/mL, mus fibrocyte LMTK, ED₅₀ = 1.5µg/mL, hmn hepatoma HepG2, ED₅₀ = 17µg/mL). Source: SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*. Ref: 6, 1847.

**16635 Papyriogenin A**

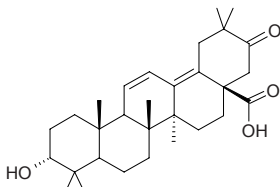
[59076-79-8] C₃₀H₄₂O₄ (466.67). Crystals (MeOH aq.), mp 262~264°C, [α]_D = -11.3° (c = 16.7, CHCl₃). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

**16636 Papyriogenin B**

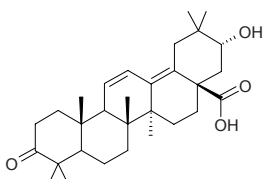
[64854-67-7] C₃₀H₄₂O₄ (466.67). Crystals (MeOH aq.), mp 259~262°C, [α]_D = +19.6° (c = 10, CHCl₃). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3137, 3135, 3136.

**16637 Papyriogenin C**

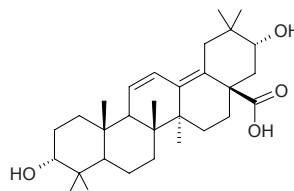
[73341-64-7] C₃₀H₄₄O₄ (468.68). Crystals (MeOH aq.), mp 230~231°C, [α]_D = -188.4° (c = 0.064, EtOH). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

**16638 Papyriogenin D**

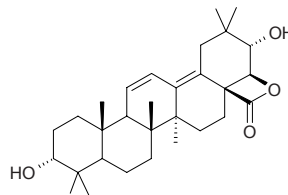
[72933-75-6] C₃₀H₄₄O₄ (468.68). Crystals (MeOH), mp 285~287°C, [α]_D = -183° (c = 0.6, pyridine). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

**16639 Papyriogenin E**

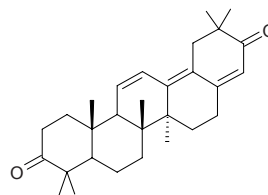
[73341-65-8] C₃₀H₄₆O₄ (470.70). Crystals (MeOH), mp 286~288°C, [α]_D = -207° (c = 0.06, pyridine). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

**16640 Papyriogenin G**

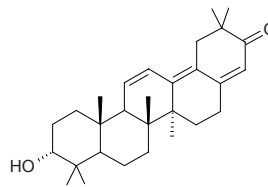
[67779-71-9] C₃₀H₄₄O₄ (468.68). Crystals, mp 188~190°C. Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

**16641 Papyriogenin H**

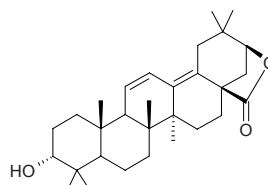
[72933-71-2] C₂₉H₄₀O₂ (420.64). Crystals, mp 127~131°C. Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3138, 3139.

**16642 Papyriogenin I**

[72938-20-6] C₂₉H₄₂O₂ (422.66). Crystals, mp 255~257°C. Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3138, 3139.

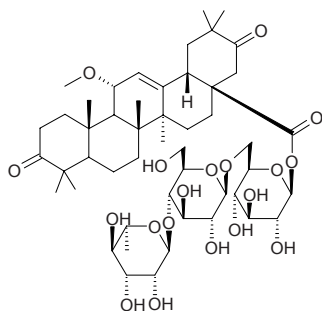
**16643 Papyriogenin J**

[73341-66-9] C₃₀H₄₄O₃ (452.68). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 1521, 3135, 3136.

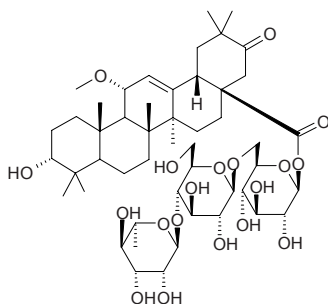


16644 Papyriocide L-IIa

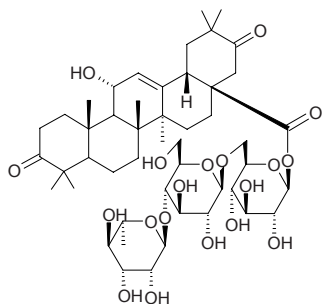
[59112-65-1] C₄₉H₇₆O₁₉ (969.14). Powder, mp 182~183°C, [α]_D = -39° (c = 0.82, CHCl₃), artifact. Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3140.

**16645 Papyriocide L-IIb**

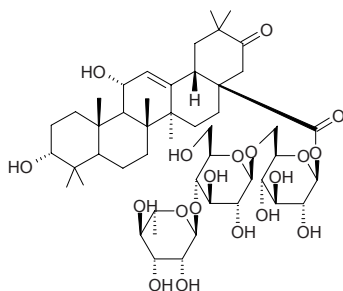
[72933-67-6] C₄₉H₇₈O₁₉ (971.16). Crystals, mp 178~182°C, [α]_D = -37.8° (c = 0.27, EtOH). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3140.

**16646 Papyriocide L-IIc**

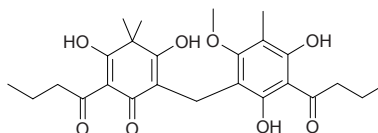
[72938-19-3] C₄₈H₇₄O₁₉ (955.11). Powder, mp 188~191°C, [α]_D = -47.1° (c = 0.1, EtOH). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3140.

**16647 Papyriocide L-IId**

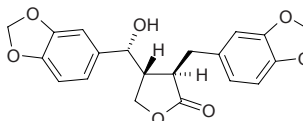
[72933-68-7] C₄₈H₇₆O₁₉ (957.13). Powder, mp 185~190°C, [α]_D = -39.3° (c = 0.15, EtOH). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3140.

**16648 Paraaspidin BB**

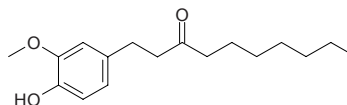
[989-54-8] C₂₅H₃₂O₈ (460.53). mp 123~125°C. Source: GUAN ZHONG *Dryopteris crassirhizoma*. Ref: 6, 1521.

**16649 Parabenzlactone**

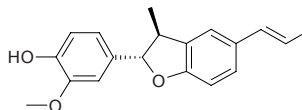
[27675-77-0] C₂₀H₁₈O₇ (370.36). White needles, mp 123~125°C, 159~161°C, [α]_D²⁵ = -11° (c = 1.15, CHCl₃), [α]_D³⁰ = -25° (c = 0.14, CHCl₃). Pharm: Immunosuppressant (hmn, inhibits ConA-induced hyperplasia of lymphocyte in peripheral blood, IC₅₀ = 4.3μg/mL). Source: CHANG YE FEI SHU *Torreya jackii*, JIA SHAN HU JIAO *Parabenzoin trilobum*. Ref: 3590, 3591, 1669.

**16650 6-Paradol**

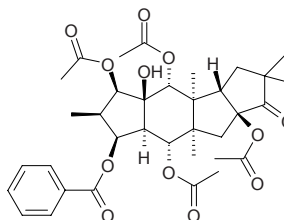
[27113-22-0] C₁₇H₂₆O₃ (278.40). Pharm: Bitter principle. Source: SHENG JIANG *Zingiber officinale*. Ref: 658.

**16651 Parakmerin A**

2,3-Dihydro-2α-(4-hydroxy-3-methoxyphenyl)-3β-methyl-5E-propenylbenzofuran C₁₉H₂₀O₃ (296.37). White powder, mp 68~70°C, [α]_D²¹ = -101.5° (c = 0.50, CHCl₃). Source: YUN NAN NI DAN XING MU LAN *Parakmeria yunnanensis*. Ref: 2137.

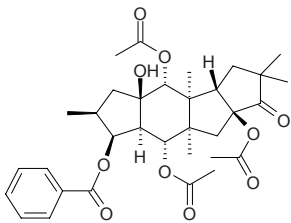
**16652 Paraliane 12**

C₃₃H₄₄O₁₂ (656.73). Pharm: Antifeedant (*Spodopetra littoralis*, 500~1000mg/L)^[5221]; anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ = 70μg/mL)^[5221]; cytotoxic (MT-4, CC₅₀ = 70μg/mL)^[5221]. Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

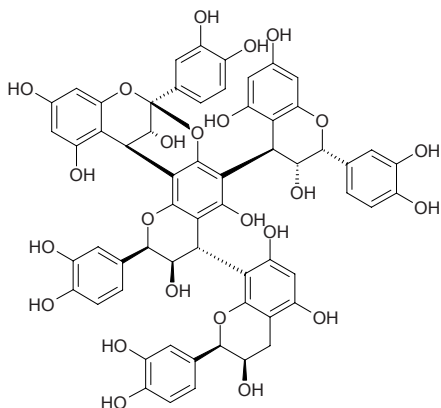


16653 Paraliene 13

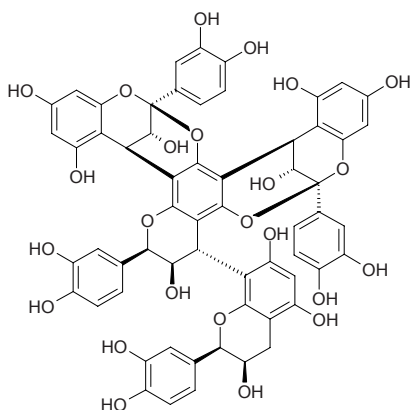
$C_{33}H_{42}O_{10}$ (598.70). **Pharm:** Antifeedant (*Spodopetra littoralis*, 1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, $EC_{50} = 14\mu\text{g/mL}$); cytotoxic (MT-4, $CC_{50} = 49\mu\text{g/mL}$). **Source:** HAI YANG DA JI *Euphorbia paralias* (aerial parts). **Ref:** 5221.

**16654 Parameritannin A₁**

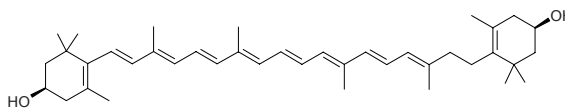
Epicatechin-(2 β →O→7,4 β →8)-[epicatechin-(4 β →6)]-epicatechin-(4 β →8)-epicatechin $C_{60}H_{48}O_{24}$ (1153.04). Pale yellow amorphous powder, $[\alpha]_D^{21} = +50.1.9^\circ$ ($c = 1.33$, MeOH). **Source:** CHANG JIE ZHU *Parameria laevigata* (bark). **Ref:** 3523.

**16655 Parameritannin A₂**

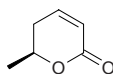
Epicatechin-(2 β →O→5,4 β →6)-[epicatechin-(2 β →O→7,4 β →8)]-epicatechin-(4 β →8)-epicatechin $C_{60}H_{46}O_{24}$ (1151.02). Pale yellow amorphous powder. **Source:** CHANG JIE ZHU *Parameria laevigata* (bark). **Ref:** 3523.

**16656 Parasiloxanthin**

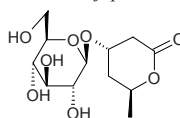
[62994-48-3] $C_{40}H_{58}O_2$ (570.91). Orange-yellow needles, mp 202°C. **Source:** HAI YUN *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], NIAN YU *Parasilurus asotus*. **Ref:** 3141, 3142.

**16657 Parasorbic acid**

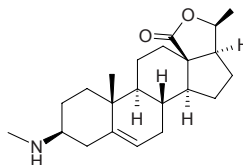
[10048-32-5] $C_6H_8O_2$ (112.13). Oil, (S), bp (+) 104~105°C/14mmHg, $[\alpha]_D^{24} = +206^\circ$ ($c = 1$, EtOH), (\pm): bp 110°C/15mmHg, 44°C/0.05mmHg. **Pharm:** Overcomer dormancy of peppertree fruits; carcinogenic; LD₅₀ (mus, ip) = 750mg/kg. **Source:** OU ZHOU HUA QIU *Sorbus aucuparia*, TIAN SHAN HUA QIU *Sorbus tianschanica*. **Ref:** 6, 658, 1521.

**16658 Parasorboside**

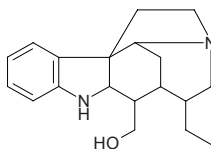
[33276-04-9] $C_{12}H_{20}O_8$ (292.29). Needles (Me₂CO), mp 68.9°C, mp 143.4°C (double mp). **Source:** OU ZHOU HUA QIU *Sorbus aucuparia*, ZI QI *Osmunda japonica*. **Ref:** 2886, 2887.

**16659 Paravallarine**

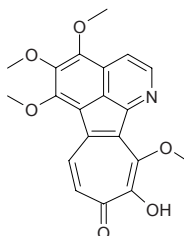
$C_{22}H_{33}NO_2$ (343.51). **Pharm:** Fish toxin. **Source:** ZHI XIE MU PI *Holarrhena antidysenterica*. **Ref:** 658.

**16660 Pareirine**

$C_{19}H_{26}N_2O$ (298.43). mp 142.5~143.0°C. **Source:** XI SHENG TENG *Cissampelos pareira*, YA HU NU *Cissampelos pareira* var. *hirsute*. **Ref:** 6, 660.

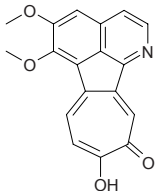
**16661 Pareirubrine A**

[147044-68-6] $C_{20}H_{17}NO_6$ (367.36). Light red-brown needles, mp 168~170°C. **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 0.33 $\mu\text{g/mL}$). **Source:** XI SHENG TENG *Cissampelos pareira*. **Ref:** 3592.

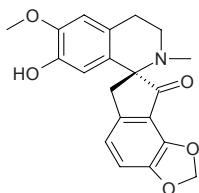


16662 Pareirubrine B

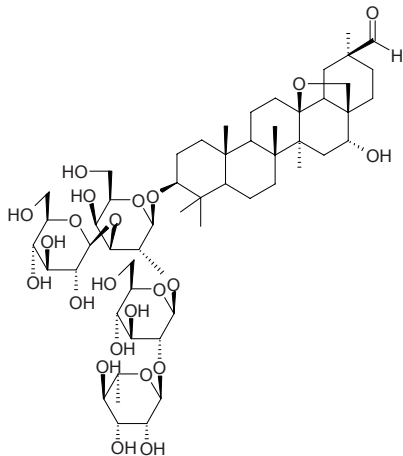
[152845-78-8] C₁₈H₁₃NO₄ (307.31). Light red-brown needles, mp 290°C (dec). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 0.17 μg/mL). **Source:** XI SHENG TENG *Cissampelos pareira*. **Ref:** 3592.

**16663 Parfumine**

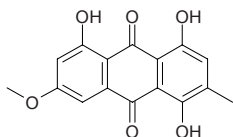
Fumarilicine [28230-70-8] C₂₀H₁₉NO₅ (353.38). Crystals (EtOH or CHCl₃), mp 118~120°C (111~112°C) [α]_D²³ = +18° (*c* = 1.1, CHCl₃). **Source:** WEI LAN QIU GUO ZI JIN *Fumaria vaillantii*, XIAO HUA QIU GUO ZI JIN *Fumaria parviflora*, YAN JIN *Fumaria schleicheri*. **Ref:** 1521.

**16664 Paridiformoside**

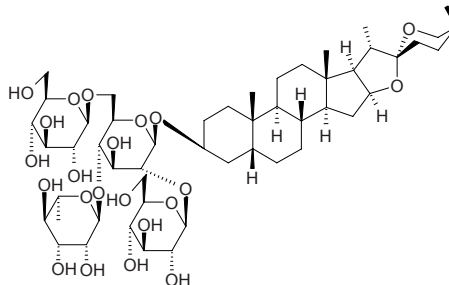
3-*O*-(β -D-Glucopyranosyl-(1→3)-*O*-(α -L-rhamno-pyranosyl-(1→2)- β -D-glucopyranosyl(1→2))- β -D-glucopyranosyl)cyclamiretin A [112468-35-6] C₅₄H₈₈O₂₃ (1105.29). White powder, mp 163~165°C. **Pharm:** Uterine stimulant (animal model, presents dose-response relationship). **Source:** CHONG LOU PAI CAO *Lysimachia paridiformis*. **Ref:** 86, 1608.

**16665 Parietin**

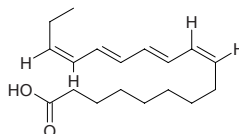
C₁₆H₁₂O₆ (300.27). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100 μmol/L). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**16666 Parillin**

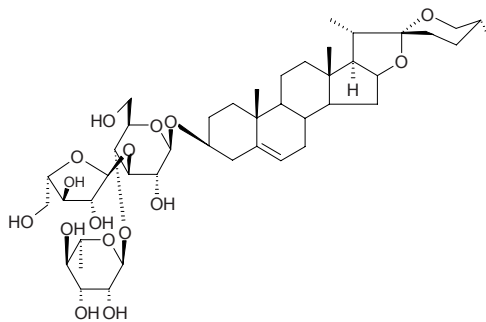
[19057-61-5] C₅₁H₈₄O₂₂ (1049.23). **Pharm:** Antibacterial (phytopathogenic bacteria); antineoplastic (rat Walker carcinoma, non-orl, ED₅₀ = 50 mg/kg); antifungal (*Sclerotinia*, *Claviceps purpurea* and *Trichothecium roseum*); hemolytic; LD₅₀ (rat, non-orl) = 80 mg/kg. **Source:** HUI BA QIA *Smilax aristolochiaefolia*. **Ref:** 658.

**16667 Parinaric acid**

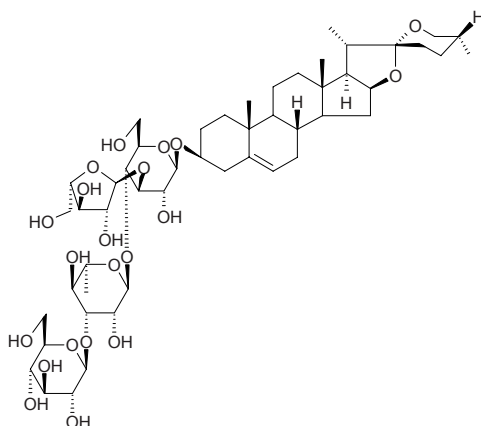
[593-38-4] C₁₈H₂₈O₂ (276.42). mp 85~86°C. **Source:** JI XING ZI *Impatiens balsamina*. **Ref:** 6, 1521.

**16668 Pariphyllin**

C₄₄H₇₀O₁₆ (855.04). mp 294~298°C. **Source:** ZAO XIU *Paris polyphylla*. **Ref:** 6.

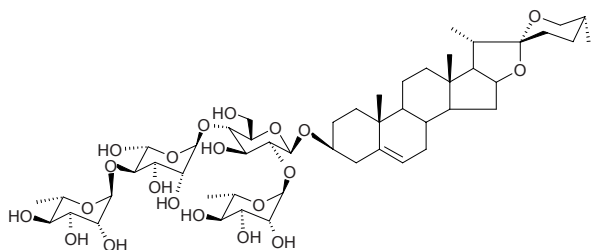
**16669 Pariphyllin B**

[57282-83-4] C₅₀H₈₀O₂₁ (1017.18). Crystals +2H₂O, mp 168~170°C, [α]_D = -97.6° (*c* = 0.87, pyridine). **Source:** ZAO XIU *Paris polyphylla*. **Ref:** 3143.

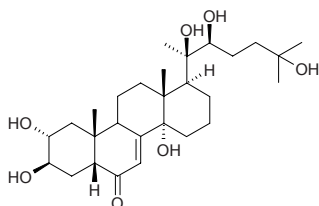


16670 Parissaponin Pb

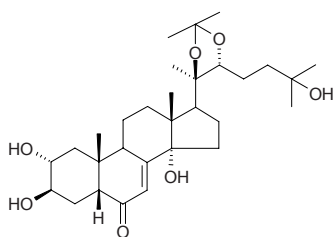
$C_{50}H_{80}O_{21}$ (1017.18). **Pharm:** Cytotoxic (*in vitro*, HeLa, $IC_{50} = 3.14\mu\text{g/mL}$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu\text{g/mL}$)^[4788]. **Source:** HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00058%dw). **Ref:** 4788.

**16671 Paristerone**

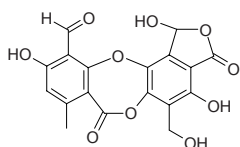
[84580-28-9] $C_{28}H_{46}O_7$ (494.67). Crystals, mp 216~220°C, $[\alpha]_D = +41.9^\circ$. **Source:** ZAO XIU *Paris polyphylla*. **Ref:** 3144.

**16672 Paristerone 20,22-monoacetone**

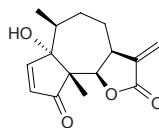
$C_{30}H_{48}O_7$ (520.71). Colorless needles, mp 108~110°C, $[\alpha]_D^{25} = 48.7^\circ$ ($c = 0.21$, MeOH). **Source:** CANG BAI CHENG GOU FENG *Diploclisia glaucescens*. **Ref:** 2496.

**16673 Parmatic acid**

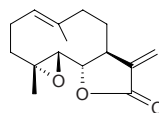
Salazinic acid [521-39-1] $C_{18}H_{12}O_{10}$ (388.29). mp 260°C (dec). **Source:** SHI HUA *Parmelia saxatilis*. **Ref:** 6.

**16674 Parthenin**

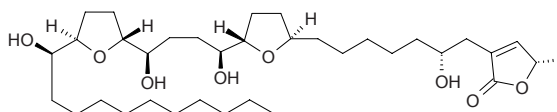
[508-59-8] $C_{15}H_{18}O_4$ (262.31). **Pharm:** Antifungal; dermatitic (causes contact dermatitis); cytotoxic; inhibits heart (dog); insect antifeedant; molluscicide; toxin (ox, some insects). **Source:** LUO SUI TUN CAO *Ambrosia psilostachya*, NEI HUA YI WA JU *Iva nevadensis*, YIN JIAO JU *Parthenium hysterophorus*. **Ref:** 658, 4489.

**16675 Parthenolide**

[20554-84-1] $C_{15}H_{20}O_3$ (248.32). Colorless massive crystals, mp 114~115°C. **Pharm:** Antineoplastic; cytotoxic (*in vitro*, SMMC-7721, $IC_{50} = 4.2\mu\text{g/mL}$; HO-8910, $IC_{50} = 1.37\mu\text{g/mL}$; control Vincristine, SMMC-7721, $IC_{50} = 30.35\mu\text{g/mL}$; HO-8910, $IC_{50} = 20.74\mu\text{g/mL}$)^[4736]; cytotoxic (U937, $IC_{50} = 1.9\mu\text{mol/L}$)^[3887]; antibacterial; antifungal; cytotoxic; used in treatment of bilious headache (vasomotor headache); anti-inflammatory (modulator of cytokine network: blocks VCAM-1 expression induced by IL-4 in endothelial cells ($IC_{50} < 10\mu\text{mol/L}$); decreases expression of IL-2 in T-lymphocytes)^[4416]; anti-inflammatory (RAW264.7 cells, LPS-induced: NF- κ B inhibitor, $IC_{50} = (3.42 \pm 0.08)\mu\text{mol/L}$)^[3837]; anti-inflammatory (NO production inhibitor, $IC_{50} = (2.41 \pm 0.06)\mu\text{mol/L}$)^[3837]; anti-inflammatory (TNF- α production inhibitor, $IC_{50} = (2.68 \pm 0.11)\mu\text{mol/L}$)^[3837]; anti-inflammatory (inhibits LPS-induced NF- κ B activation in murine macrophage RAW264.7 cells, $IC_{50} = 2.34\mu\text{mol/L}$)^[4724]; anti-inflammatory (NO production inhibitor ($IC_{50} = 2.01\mu\text{mol/L}$)^[4724]. **Source:** CHANG MAO HAN XIAO *Michelia lanuginosa*, CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0012%dw)^[4736], HUANG MIAN GUI *Michelia champaca*, YUN NAN HAN XIAO *Michelia yunnanensis*, ZHOU YE MU LAN *Magnolia praecoccissima* (seed), LEI GONG TENG *Tripterygium wilfordii*, *Parthenium* spp., *Chrysanthemum* spp., *Tanacetum* spp., *Ambrosia* spp. **Ref:** 426, 658, 3837, 3887, 4181, 4416, 4724, 4736.

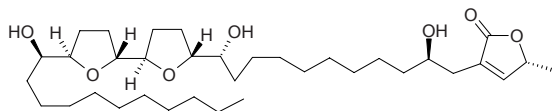
**16676 Parvifloracin**

[157110-12-8] $C_{35}H_{62}O_8$ (610.88). White-like wax, $[\alpha]_D^{22} = +18.75^\circ$ ($c = 0.08$, MeOH). **Pharm:** Cytotoxic (A549, $ED_{50} = 2.83 \times 10^{-11}\mu\text{g/mL}$, MCF7, $ED_{50} < 10^{-12}\mu\text{g/mL}$, BST, $LC_{50} = 0.0201\mu\text{g/mL}$). **Source:** XIAO HUA PAO PAO *Asimina parviflora*. **Ref:** 3730.

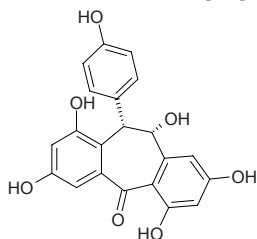


16677 Parviflorin

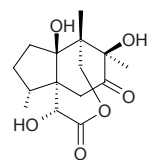
[152378-19-3] C₃₅H₆₂O₇ (594.88). White-like wax, $[\alpha]_D^{22} = +18.33^\circ$ ($c = 0.06$, alcohol). **Pharm:** Cytotoxic (A549, ED₅₀ < 10⁻¹² μg/mL, HT29, ED₅₀ = 0.549 μg/mL, BST, LC₅₀ = 0.08 μg/mL). **Source:** PAO PAO SHU *Asimina triloba*, PAO ZHUANG FAN LI ZHI *Annona bullata*, XIAO HUA PAO PAO *Asimina parviflora*. **Ref:** 3731, 3730, 3732, 3733.

**16678 Parviflorol**

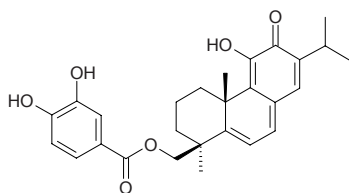
C₂₁H₁₆O₇ (380.36). Yellow solid, $[\alpha]_D = +62^\circ$ ($c = 0.18$, MeOH). **Source:** XIAO HUA PO LEI *Hopea parviflora* (bark). **Ref:** 3936.

**16679 Parviflorolide**

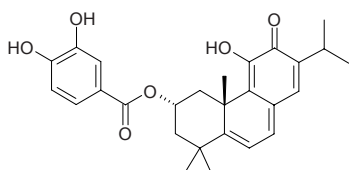
C₁₅H₂₂O₆ (298.34). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 3046.

**16680 Parvifloron E**

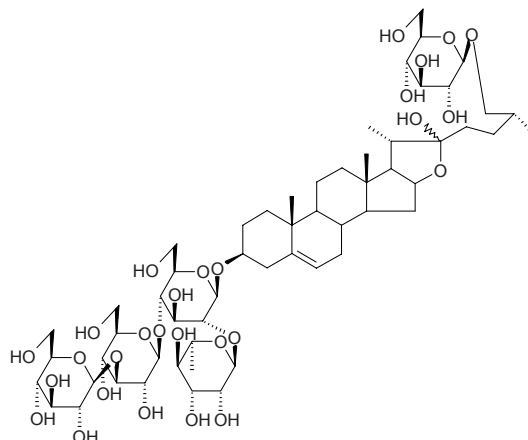
C₂₇H₃₀O₆ (450.54). **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ = 0.086 mmol/L, control Vitamin E, EC₅₀ = 0.134 mmol/L). **Source:** YUAN BAN XIANG CHA CAI *Plectranthus nummularius* (leaf). **Ref:** 4121.

**16681 Parvifloron F**

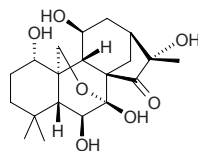
C₂₇H₃₀O₆ (450.54). **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ = 0.131 mmol/L, control Vitamin E, EC₅₀ = 0.134 mmol/L). **Source:** YUAN BAN XIANG CHA CAI *Plectranthus nummularius* (leaf). **Ref:** 4121.

**16682 Parvifloside**

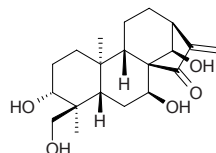
C₅₇H₉₄O₂₈ (1227.37). White powder, mp 214~218°C, $[\alpha]_D^{19.9} = -60.69^\circ$ ($c = 0.508$, pyridine). **Source:** XIAO HUA DUN YE SHU YU *Dioscorea parviflora* (fresh rhizome). **Ref:** 4858.

**16683 Parvifolin**

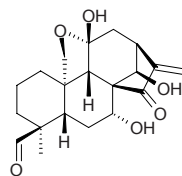
C₂₀H₃₀O₇ (382.46). Amorphous powder, $[\alpha]_D = -117^\circ$ (MeOH). **Source:** XIAO YE XIANG CHA CAI *Isodon parvifolia*. **Ref:** 4067.

**16684 Parvifoline A**

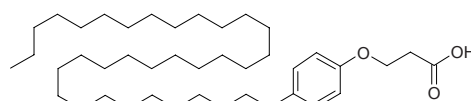
C₂₀H₃₀O₅ (350.46). mp 163~165°C, $[\alpha]_D^{20} = -23.5^\circ$ ($c = 0.45$, MeOH). **Source:** XIAO YE XIANG CHA CAI *Isodon parvifolia*. **Ref:** 4067.

**16685 Parvifoline B**

C₂₀H₂₆O₆ (362.43). mp 217~219°C, $[\alpha]_D^{20} = -65.96^\circ$ ($c = 0.10$, MeOH). **Source:** XIAO YE XIANG CHA CAI *Isodon parvifolia*. **Ref:** 4067.

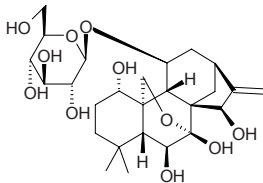
**16686 Parvifoloinic acid**

[133336-95-5] C₄₂H₇₆O₃ (629.07). White powder, mp 90~91.5°C (CHCl₃). **Pharm:** Cytotoxic (hmn liver cancer cell QGY-7703). **Source:** XIAO YE XIANG CHA CAI *Isodon parvifolia*. **Ref:** 3593.

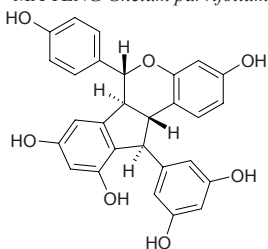


16687 Parvifoliside

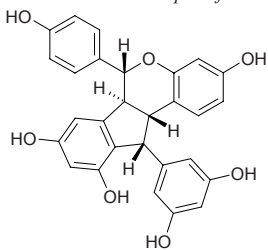
$C_{26}H_{40}O_{11}$ (528.60). mp 279~281°C, $[\alpha]_D^{20} = +0.5^\circ$ ($c = 0.4$, MeOH). Source: XIAO YE XIANG CHA CAI *Isodon parvifolia*. Ref: 4067.

**16688 Parvifolol A**

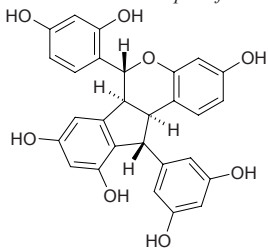
$C_{28}H_{22}O_7$ (470.48). Pale brownish amorphous solid. Source: XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark). Ref: 3550.

**16689 Parvifolol B**

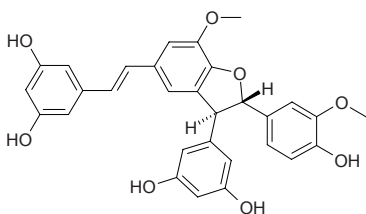
$C_{28}H_{22}O_7$ (470.48). Pale brownish amorphous solid. Source: XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark). Ref: 3550.

**16690 Parvifolol C**

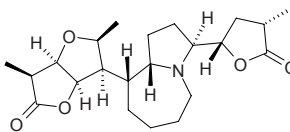
$C_{28}H_{22}O_8$ (486.48). Pale brownish amorphous solid. Source: XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark). Ref: 3550.

**16691 Parvifolol D**

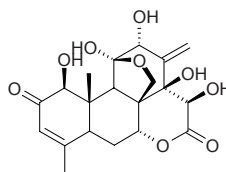
Shegansu B $C_{30}H_{26}O_8$ (514.54). Pale brownish amorphous solid. Source: SHE GAN *Belamcanda chinensis*, XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*] (bark). Ref: 2233, 2234, 3550.

**16692 Parvistemonine**

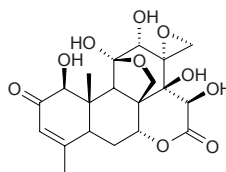
$C_{22}H_{33}NO_5$ (391.51). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, $LC_{50} > 200\text{mg/L}$, $EC_{50} = 163\text{mg/L}$). Source: *Stemona* sp. (HG915). Ref: 3409.

**16693 Pasakbumin A**

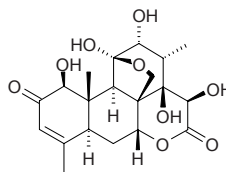
Eurycomanone $C_{20}H_{24}O_9$ (408.41). Pharm: Cytotoxic (KB cells, $IC_{50} = 0.40\mu\text{g/mL}$, MCF7 cells, $IC_{50} < 2.5\mu\text{g/mL}$, A549 cells, remarkable activity); antileishmanial (*Leishmania* sp., $IC_{50} = 0.11\mu\text{g/mL}$, control Thallioquin, $IC_{50} = 0.21\mu\text{g/mL}$); antiulcerative (induced by indomethacin, $ED_{50} = 0.27\mu\text{g/mL}$); $LD_{50} = 18.9\mu\text{g/kg}$. Source: *Eurycoma* sp. Ref: 4556.

**16694 Pasakbumin B**

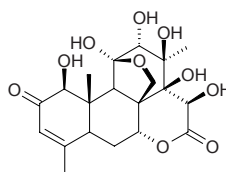
13 α (21)-Epoxyeurycomanone $C_{20}H_{24}O_{10}$ (424.41). Pharm: Cytotoxic (MCF7 cancer cells, $IC_{50} < 2.5\mu\text{g/mL}$); antiulcerative (induced by indomethacin, $ED_{50} = 0.19\mu\text{g/mL}$); $LD_{50} = 5.1\mu\text{g/kg}$. Source: *Eurycoma* sp. Ref: 4556.

**16695 Pasakbumin C**

13 β ,21-Dihydroeurycomanone $C_{20}H_{26}O_9$ (410.42). Pharm: Cytotoxic (KB cells, $IC_{50} = 0.33\mu\text{g/mL}$, P388 cells, $IC_{50} = 1.2\mu\text{g/mL}$, MCF7 cells $IC_{50} < 2.5\mu\text{g/mL}$)^[4556]. Source: *Eurycoma harmandiana* (root), *Eurycoma* sp. Ref: 4556, 5164.

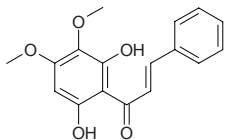
**16696 Pasakbumin D**

$C_{20}H_{26}O_{10}$ (426.42). Source: *Eurycoma* sp. Ref: 4556.

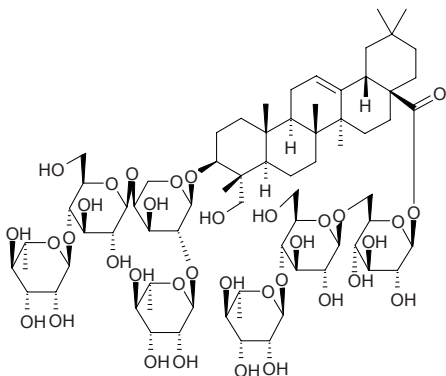


16697 Pashanone

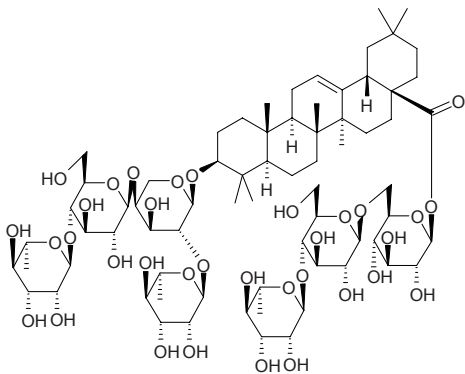
[42438-78-8] C₁₇H₁₆O₅ (300.31). Orange-red plates (C₆H₆-pet. ether), mp 147~149°C. Source: DIAO ZHANG ZHI YE *Lindera umbellata* [Syn. *Lindera erythrocarpa*], *Onychium auratum*, *Didymocarpus pedicellata*. Ref: 3145, 3146, 3147.

**16698 Pastuchoside A**

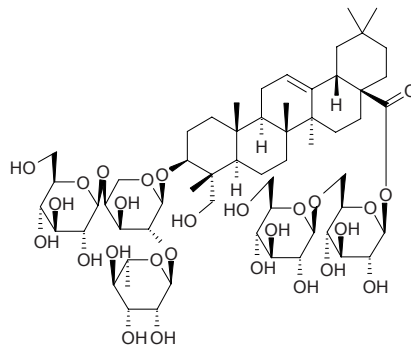
3 β -O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosyl}-28-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl]-hederagenin C₇₁H₁₁₆O₃₅ (1529.70). White powder, mp 198°C, [α]_D²⁰ = -16° (c = 0.1, MeOH). Source: *Hedera pastuchowii*. Ref: 2543.

**16699 Pastuchoside B**

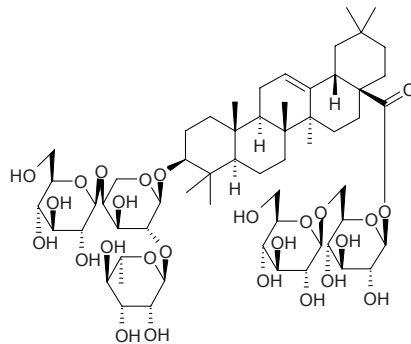
3 β -O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosyl}-28-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl]-oleanolate C₇₁H₁₁₆O₃₄ (1513.70). White powder, mp 212°C, [α]_D²⁰ = -40° (c = 0.1, MeOH). Source: *Hedera pastuchowii*. Ref: 2543.

**16700 Pastuchoside C**

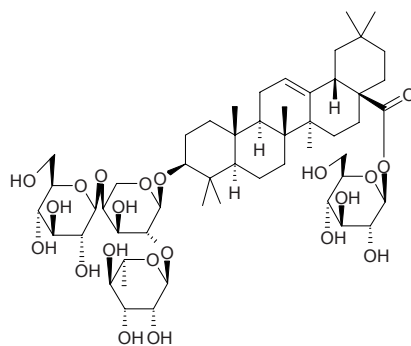
3 β -O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosyl}-28-O-[β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl]-hederagenin C₅₉H₉₆O₂₇ (1237.41). White powder, mp 201°C, [α]_D²⁰ = -18° (c = 0.1, MeOH). Source: *Hedera pastuchowii*. Ref: 2543.

**16701 Pastuchoside D**

3 β -O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosyl}-28-O-[β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl]-oleanolate C₅₉H₉₆O₂₆ (1221.41). White powder, mp 213°C, [α]_D²⁰ = -30° (c = 0.1, MeOH); amorphous solid, mp 228~229°C, [α]_D²⁵ = -11.8° (c = 0.17, MeOH). Pharm: Pancreatic lipase inhibitor inactive (*in vitro*, 1mg/mL)^[3021]. Source: HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00022%dw), *Hedera pastuchowii*. Ref: 2543, 3021.

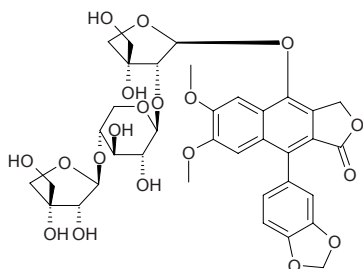
**16702 Pastuchoside E**

3 β -O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosyl}-28-O-[β -D-glucopyranosyl]-oleanolate C₅₃H₈₆O₂₁ (1059.26). White powder, mp 205°C, [α]_D²⁰ = +25° (c = 0.1, MeOH). Source: *Hedera pastuchowii*. Ref: 2543.

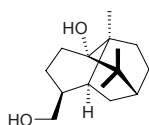


16703 Patavine

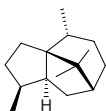
$C_{36}H_{40}O_{19}$ (776.71). Amorphous powder, $[\alpha]_D^{24} = -18^\circ$ ($c = 1.1$, MeOH). **Pharm:** Cytotoxic (hmn LoVo Cell Line *in Vitro*, $IC_{50} = (43.95 \pm 4.88) \mu\text{L/mL}$). **Source:** *Haplophyllum patavinum* (shoot). **Ref:** 4206.

**16704 Patchoulan-1,12-diol**

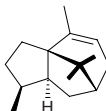
$C_{15}H_{26}O_2$ (238.37). Crystals (hexane- C_6H_6), mp 132.5~133°C. **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 3148.

**16705 Patchoulane**

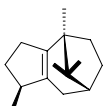
$C_{15}H_{26}$ (206.37). **Source:** HONG CHAI HU *Bupleurum scorzoniferifolium*. **Ref:** 2.

**16706 α -Patchoulene**

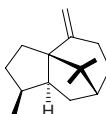
[560-32-7] $C_{15}H_{24}$ (204.36). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 2, 1521.

**16707 β -Patchoulene**

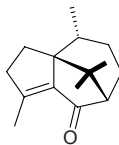
[514-51-2] $C_{15}H_{24}$ (204.36). Oil, bp 66.8°C/0.6mmHg, $[\alpha]_D^{30} = -42.6^\circ$ ($c = 10.5$, $CHCl_3$), $n_D^{25} = 1.4978$. **Source:** GAN SONG *Nardostachys chinensis*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], MAI DONG *Ophiopogon japonicus*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHI YE GAN SONG *Nardostachys jatamansi*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. **Ref:** 660, 1521.

**16708 γ -Patchoulene**

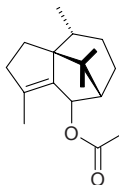
[508-55-4] $C_{15}H_{24}$ (204.36). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2, 1521.

**16709 Patchoulenone**

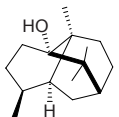
[5986-54-9] $C_{15}H_{22}O$ (218.34). mp 52.5°C. **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 6, 1521.

**16710 Patchouleny acetate**

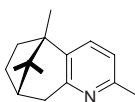
$C_{17}H_{26}O_2$ (262.40). **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 3149.

**16711 Patchoulic alcohol**

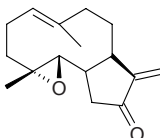
[5986-55-0] $C_{15}H_{26}O$ (222.37). White solid, mp 37~38°C, $[\alpha]_D = -119^\circ$ ($c = 1.0$, $CHCl_3$); colorless needles, mp 54~56°C, $[\alpha]_D = -124^\circ$ ($c = 0.22$, $CHCl_3$). **Pharm:** Antibacterial; calcium antagonist ($IC_{50} = 47 \mu\text{mol/L}$); used as a shampoo; antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, $MLC > 200 \text{mmol/L}$)^[2551]. **Source:** GAN SONG *Nardostachys chinensis*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*] (aerial parts: content scope = 0.26%~3.42%^[5501]), HUO XIANG *Agastache rugosus*, SHI YE GAN SONG *Nardostachys jatamansi*. **Ref:** 2, 505, 658, 1521, 2551, 5501.

**16712 Patchoulipyridine**

[6517-97-1] $C_{15}H_{21}N$ (215.34). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 2, 1521.

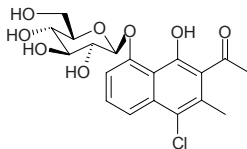
**16713 Pathenolide**

$C_{16}H_{22}O_2$ (246.35). **Pharm:** Anti-inflammatory (NF- κ B pathway)^[4415]; anti-inflammatory (NO production inhibitor, cultured rat aortic smooth muscle cells treated with LPS and interferon- γ ; inhibits iNOS expression, hmn monocyte cell line THP-1, caused by TPA)^[4415]. **Source:** HUANG MIAN GUI *Michelia champaca*, *Chrysanthemum parthenium*. **Ref:** 1521, 4415.

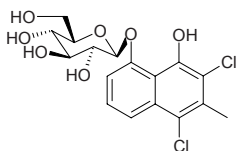


16714 Patientoside A

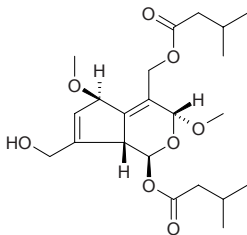
2-Acetyl-4-chloro-1,8-dihydroxy-3-methylnaphthalene-8-*O*- β -D-glucopyranoside C₁₉H₂₁ClO₈ (412.83). Pale yellow amorphous powder, $[\alpha]_D^{20} = -109.7^\circ$ ($c = 0.75$, MeOH). Source: NIU XI XI *Rumex patientia*. Ref: 3059.

**16715 Patientoside B**

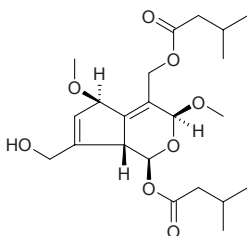
2,4-Dichloro-1,8-dihydroxy-3-methylnaphthalene-8-*O*- β -D-glucopyranoside C₁₇H₁₈Cl₂O₇ (405.23). Pale yellow amorphous powder, $[\alpha]_D^{20} = -235.8^\circ$ ($c = 0.72$, MeOH). Source: NIU XI XI *Rumex patientia*. Ref: 3059.

**16716 Patridoid I**

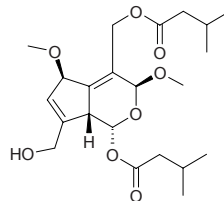
C₂₂H₃₄O₈ (426.51). Yellow oil, $[\alpha]_D^{23} = -74.0^\circ$ ($c = 0.5$, MeOH). Source: BIAN DOU CAI YE BAI JIANG *Patrinia saniculaefolia* (whole herb). Ref: 4341, 5467.

**16717 Patridoid II**

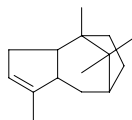
C₂₂H₃₄O₈ (426.51). Colorless oil, $[\alpha]_D^{23} = -36.0^\circ$ ($c = 0.5$, MeOH). Pharm: NO production inhibitor (dose-dependent manner, IC₅₀ = 14.1 μ mol/L, decrease in quantity of NO product was accompanied by a decrease in iNOS protein level, did not affect COX-2 protein expression level)^[5467]; TNF- α production inhibitor (dose-dependent manner, IC₅₀ = 17.6 μ mol/L)^[5467]. Source: BIAN DOU CAI YE BAI JIANG *Patrinia saniculaefolia* (whole herb). Ref: 4341, 5467.

**16718 Patridoid IIA**

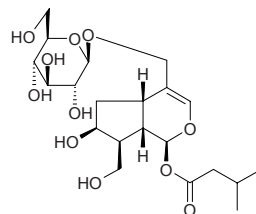
C₂₂H₃₄O₈ (426.51). Source: BIAN DOU CAI YE BAI JIANG *Patrinia saniculaefolia* (whole herb). Ref: 5467.

**16719 Patrinene**

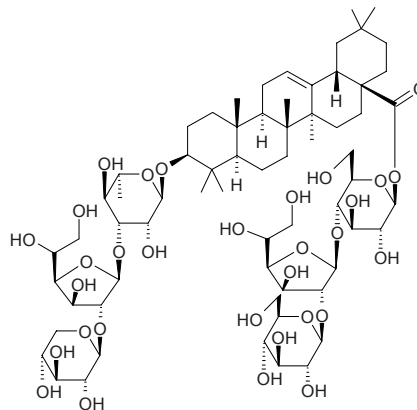
C₁₅H₂₄ (204.36). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2.

**16720 Patrinoside**

[53962-20-2] C₂₁H₃₄O₁₁ (462.50). Amorphous. Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 3150.

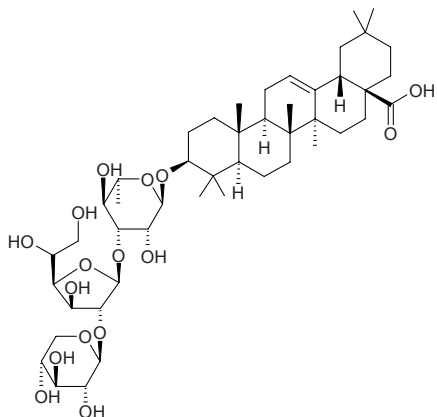
**16721 Patrinoside C**

[27004-24-6] C₆₅H₁₀₆O₃₁ (1383.55). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 6, 1521.

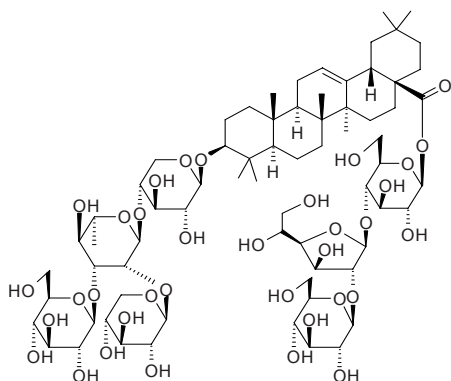


16722 Patrinoside C₁

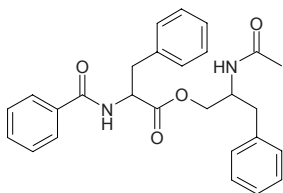
[24581-07-5] C₄₇H₇₆O₁₆ (897.12). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 6, 1521.

**16723 Patrinoside D**

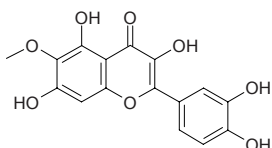
C₇₀H₁₁₄O₃₅ (1515.67). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2, 1521.

**16724 Patriscabratine**

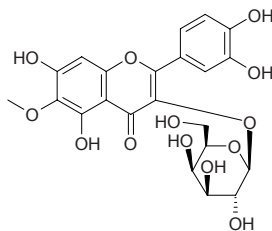
C₂₇H₂₈N₂O₄ (444.54). White needles, mp 182.0~184.0°C, [α]_D²⁵ = -32.8° (c = 1.0, MeOH). Source: CAO YE BAI JIANG *Patrinia scabra*. Ref: 2244.

**16725 Patuletin**

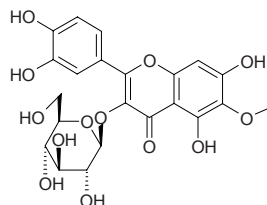
[519-96-0] C₁₆H₁₂O₈ (332.27). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 9.0 μg/mL, disoxidation of cytochrome C, IC₅₀ = 10.1 μg/mL); cytotoxic (hmn lung cancer strain GLC4, increases ID₅₀ of helenalin, ID₅₀ = 160 μmol/L; hmn colon carcinoma strain COLO320, ID₅₀ = 147 μmol/L). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 1823, 1824, 1825.

**16726 Patuletin-3-O-β-D-galactopyranoside**

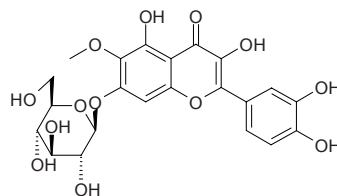
[90706-63-1] C₂₂H₂₂O₁₃ (494.41). Pharm: Aldose reductase inhibitor (10 μmol/L InRt = 84%, 1.0 μmol/L InRt = 38%). Source: JIAN CHI BU LI KE ER CAO *Brickellia arguta* var. *odontolepis*. Ref: 3734.

**16727 Patuletin 3-O-β-D-glycopyranoside**

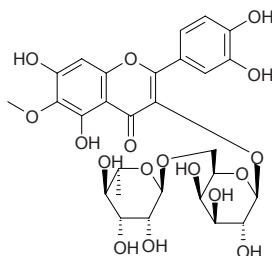
C₂₂H₂₂O₁₃ (494.41). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2.

**16728 Patuletin-7-O-β-D-glucopyranoside**

Patulitrin [19833-25-1] C₂₂H₂₂O₁₃ (494.41). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = (23.34±0.10) μmol/L, control Quercetin, IC₅₀ = (6.11±0.53) μg/mL)^[5318]. Source: KONG QUE CAO *Tagetes patula*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*], XUAN FU HUA *Inula britannica*, ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). Ref: 6, 660, 5318.

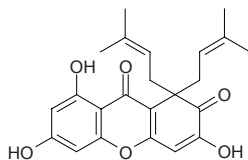
**16729 Patuletin-3-O-β-D-robinabioside**

[90706-6-3] C₂₈H₃₂O₁₇ (640.56). Pharm: Aldose reductase inhibitor (10 μmol/L InRt = 86%, 1.0 μmol/L InRt = 33%). Source: JIAN CHI BU LI KE ER CAO *Brickellia arguta* var. *odontolepis*. Ref: 3734.

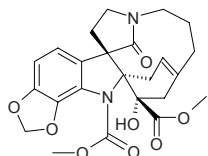


16730 Patulone

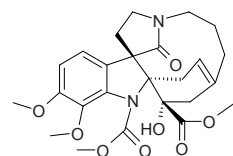
$C_{23}H_{24}O_6$ (396.44). **Pharm:** Anti-hypotension (PAF-induced, 10mg/kg, InRt = (65±9)%). **Source:** JIN SI MEI *Hypericum patulum* (cell suspension cultures). **Ref:** 5050.

**16731 Pauciflorine A**

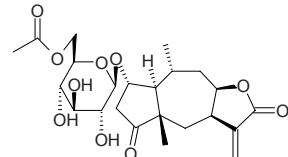
[181486-81-7] $C_{24}H_{26}N_2O_8$ (470.48). Amorphous solid, $[\alpha]_D = -50.7^\circ$ ($c = 0.2$, $CHCl_3$). **Pharm:** Antineoplastic (melanotic carcinoma, IC = 13μg/mL, inhibits formation of melanin, no cytotoxic action for normal cells). **Source:** SHAO HUA RUI MU *Kopsia pauciflora*. **Ref:** 3686.

**16732 Pauciflorine B**

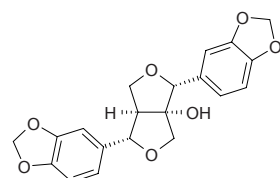
[181486-82-8] $C_{25}H_{30}N_2O_8$ (486.53). $[\alpha]_D = -25.0^\circ$ ($c = 0.4$, $CHCl_3$). **Pharm:** Antineoplastic (melanotic carcinoma, IC = 25μg/mL, inhibits formation of melanin, no cytotoxic action for normal cells). **Source:** SHAO HUA RUI MU *Kopsia pauciflora*. **Ref:** 3686.

**16733 Paucin**

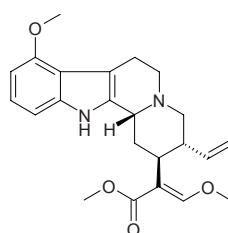
[26836-43-1] $C_{23}H_{32}O_{10}$ (468.51). mp 178–179°C. **Pharm:** Antineoplastic (mus P_{388} , *in vivo*, 35.22mg/kg, biotic prolonged rate = 35.37%, 9.6mg/kg, biotic prolonged rate = 37%); cytotoxic (mus, P_{388} *in vitro*, EC = 0.016μg/mL, KB, EC = 0.4μg/mL). **Source:** DUO BIAN HUA BAI LAI SHI JU *Baileya pleriradiata*, SHAO BIAN HUA BAI LAI SHI JU *Baileya pauciradiata*, DA HUA MO ZHI JU *Hymenoxys grandiflora*, XIANG MO ZHI JU *Hymenoxys odorata*. **Ref:** 5, 658.

**16734 Paulownin**

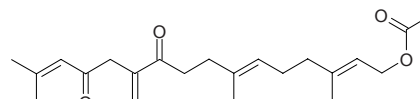
[13040-46-5] $C_{20}H_{18}O_7$ (370.36). mp 84°C, 104–105°C. **Pharm:** Pesticide. **Source:** MAO PAO TONG *Paulownia tomentosa*, XI NAN MAO WEI SHU *Dolichandrone stipulata*, YUN NAN SHI ZI *Gmelina arborea*. **Ref:** 6, 658.

**16735 Paynantheine**

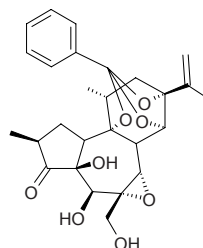
$C_{23}H_{28}N_2O_4$ (396.49). **Pharm:** Opioid agonist (gpg ileum, $pEC_{50} = 4.99 \pm 0.06$, control Morphine, $pEC_{50} = 7.15 \pm 0.05$). **Source:** MEI LI MAO ZHU MU *Mitragyna speciosa* (leaf). **Ref:** 5069.

**16736 PC-1999-52-1447-7b**

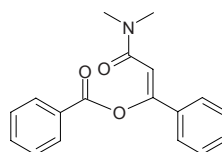
$C_{22}H_{32}O_4$ (360.50). Oil. **Source:** SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 2405.

**16737 PC-1999-52-1525-6**

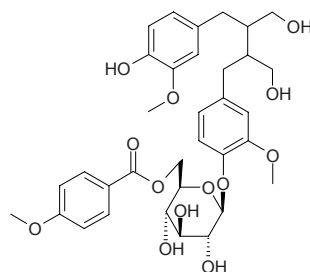
$C_{27}H_{32}O_8$ (484.55). **Source:** YOU RUI XIANG *Daphne oleoides*. **Ref:** 2410.

**16738 PC-2000-53-503-15**

$C_{18}H_{17}NO_3$ (295.34). **Source:** GUANG LIANG SHI SONG *Lycopodium lucidulum*. **Ref:** 3927.

**16739 PC-2004-65-2003-18**

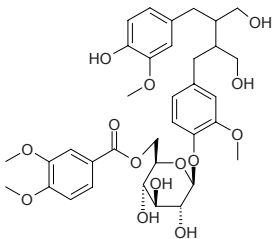
$C_{34}H_{42}O_{13}$ (658.71). Amorphous powder, $[\alpha]_D^{22} = -35^\circ$ ($c = 0.63$, MeOH). **Source:** BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). **Ref:** 3817.



16740 PC-2004-65-2003-19

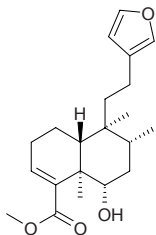
$C_{35}H_{44}O_{14}$ (688.73). Amorphous powder, $[\alpha]_D^{24} = -43^\circ$ ($c = 0.49$, MeOH).

Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). **Ref:** 3817.

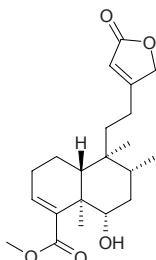
**16741 PC-66-633-5**

$C_{21}H_{30}O_4$ (346.47). Viscous, $[\alpha]_D^{25} = -33.8^\circ$ ($c = 1.12$, $CHCl_3$). **Pharm:**

Antibacterial (*Bacillus subtilis*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 12mm, control Penicillin G streptomycin, 30 μ g/mL, IZD = 15mm; *Bacillus sphaericus*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 14mm; *Staphylococcus aureus*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 12mm; *Klebsiella aerogenes*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 23mm; *Chromobacterium violaceum*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 10mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 24mm)^[5260]. **Source:** ZAO CAO *Pulicaria wightiana* (aerial parts). **Ref:** 5260.

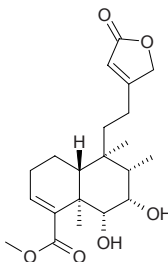
**16742 PC-66-633-1**

$C_{21}H_{30}O_5$ (362.47). White crystals, mp 200–201 $^\circ$ C (MeOH), $[\alpha]_D^{25} = -34.9^\circ$ ($c = 1.08$, $CHCl_3$). **Pharm:** Antibacterial (*Bacillus subtilis*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 12mm, control Penicillin G streptomycin, 30 μ g/mL, IZD = 15mm; *Bacillus sphaericus*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 11mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 14mm; *Staphylococcus aureus*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 12mm; *Klebsiella aerogenes*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 12mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 23mm; *Chromobacterium violaceum*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 24mm)^[5260]. **Source:** ZAO CAO *Pulicaria wightiana* (aerial parts). **Ref:** 5260.

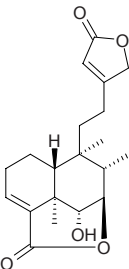
**16743 PC-66-633-2**

$C_{21}H_{30}O_6$ (378.47). Viscous, $[\alpha]_D^{25} = -31.1^\circ$ ($c = 0.6$, $CHCl_3$). **Pharm:**

Antibacterial (*Bacillus subtilis*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, control Penicillin G streptomycin, 30 μ g/mL, IZD = 15mm; *Bacillus sphaericus*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 12mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 14mm; *Staphylococcus aureus*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 11mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 12mm; *Klebsiella aerogenes*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 23mm; *Chromobacterium violaceum*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 12mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 24mm)^[5260]. **Source:** ZAO CAO *Pulicaria wightiana* (aerial parts). **Ref:** 5260.

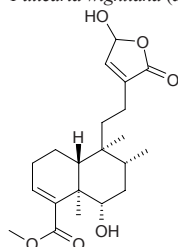
**16744 PC-66-633-3**

$C_{21}H_{26}O_5$ (346.43). White crystals, mp 205–206 $^\circ$ C (MeOH), $[\alpha]_D^{25} = -37.3^\circ$ ($c = 0.8$, $CHCl_3$). **Pharm:** Antibacterial (*Bacillus subtilis*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 11mm, control Penicillin G streptomycin, 30 μ g/mL, IZD = 15mm; *Bacillus sphaericus*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 14mm; *Staphylococcus aureus*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 12mm; *Klebsiella aerogenes*, 30 μ g/mL, IZD = 6mm, 100 μ g/mL, IZD = 8mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 23mm; *Chromobacterium violaceum*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 24mm)^[5260]. **Source:** ZAO CAO *Pulicaria wightiana* (aerial parts). **Ref:** 5260.

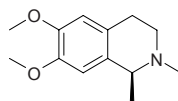


16745 PC-66-633-4

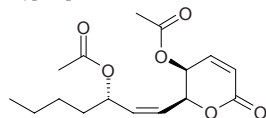
$C_{21}H_{30}O_6$ (378.47). Viscous, $[\alpha]_D^{25} = -16.3^\circ$ ($c = 0.4$, $CHCl_3$). **Pharm:** Antibacterial (*Bacillus subtilis*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 11mm, control Penicillin G streptomycin, 30 μ g/mL, IZD = 15mm; *Bacillus sphaericus*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 12mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 14mm; *Staphylococcus aureus*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 10mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 12mm; *Klebsiella aerogenes*, 30 μ g/mL, IZD = 7mm, 100 μ g/mL, IZD = 9mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 23mm; *Chromobacterium violaceum*, 30 μ g/mL, IZD = 8mm, 100 μ g/mL, IZD = 12mm, Penicillin G streptomycin, 30 μ g/mL, IZD = 24mm). **Source:** ZAO CAO *Pulicaria wightiana* (aerial parts). **Ref:** 5260.

**16746 Pectenine**

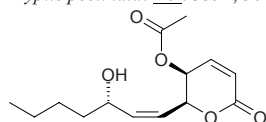
$C_{13}H_{19}NO_2$ (221.30). **Pharm:** Convulsant (warm-blooded animal). **Source:** JU REN ZHU *Carnegiea gigantea*, *Cereus pectenaboriginum*. **Ref:** 658.

**16747 Pectinolide A**

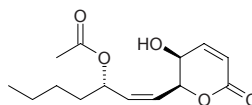
[149155-54-4] $C_{16}H_{22}O_6$ (310.35). Oil, $[\alpha]_D = +202^\circ$ ($c = 0.15$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 12.5 μ g/mL, *Bacillus subtilis*, MIC = 6.25 μ g/mL)^[3594]; antibacterial (*Staphylococcus aureus*: ATCC25923, MIC = 32 μ g/mL; XU-212, MIC = 128 μ g/mL; SA-1199B, MIC = 128 μ g/mL; EMRSA-15, MIC = 128 μ g/mL; control Tetracycline, MIC = 0.08 μ g/mL, 128 μ g/mL, 64 μ g/mL and 0.15 μ g/mL respectively)^[5075]; cytotoxic (many cancer cells, $ED_{50} < 4\mu$ g/mL)^[3594]; cytotoxic (KB, $ED_{50} = 0.63\mu$ g/mL, control Ellipticine, $ED_{50} = 0.10\mu$ g/mL)^[5075]. **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3594, 5075.

**16748 Pectinolide B**

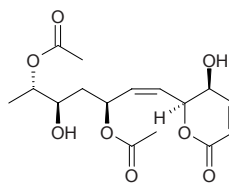
[149155-55-5] $C_{14}H_{20}O_5$ (268.31). Oil, $[\alpha]_D = +89.6^\circ$ ($c = 0.57$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 100 μ g/mL; *Bacillus subtilis*, MIC = 25 μ g/mL)^[3594]; antibacterial (*Staphylococcus aureus*: ATCC25923, MIC = 128 μ g/mL; XU-212, MIC = 256 μ g/mL; SA-1199B, MIC = 256 μ g/mL; EMRSA-15, MIC = 256 μ g/mL; control Tetracycline, MIC = 0.08 μ g/mL, 128 μ g/mL, 64 μ g/mL and 0.15 μ g/mL respectively)^[5075]; cytotoxic (many cancer cells, $ED_{50} < 4\mu$ g/mL)^[3594]; cytotoxic (KB, $ED_{50} > 20\mu$ g/mL, control Ellipticine, $ED_{50} = 0.10\mu$ g/mL)^[5075]. **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3594, 5075.

**16749 Pectinolide C**

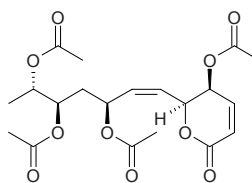
[149155-56-6] $C_{14}H_{20}O_5$ (268.31). Oil, $[\alpha]_D = +80.99^\circ$ ($c = 0.76$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 100 μ g/mL; *Bacillus subtilis*, MIC = 12.5 μ g/mL)^[3594]; antibacterial (*Staphylococcus aureus*: ATCC25923, MIC = 64 μ g/mL; XU-212, MIC = 256 μ g/mL; SA-1199B, MIC = 128 μ g/mL; EMRSA-15, MIC = 128 μ g/mL; control Tetracycline, MIC = 0.08 μ g/mL, 128 μ g/mL, 64 μ g/mL and 0.15 μ g/mL respectively)^[5075]; cytotoxic (many cancer cells, $ED_{50} < 4\mu$ g/mL)^[3594]; cytotoxic (KB, $ED_{50} = 2.52\mu$ g/mL, control Ellipticine, $ED_{50} = 0.10\mu$ g/mL)^[5075]. **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3594, 5075.

**16750 Pectinolide D**

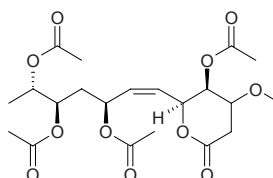
6*S*-[3*S*,6*S*-(Diaceoxy)-5*R*-hydroxy-1*Z*-hepteny]-5*S*-hydroxy-5,6-dihydro-2*H*-pyran-2-one $C_{16}H_{22}O_8$ (342.35). Yellow oil. **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3487.

**16751 Pectinolide E**

6*S*-[3*S*,5*R*,6*S*-(Triaceoxy)-1*Z*-hepteny]-5*S*-acetoxy-5,6-dihydro-2*H*-pyran-2-one $C_{20}H_{26}O_{10}$ (426.42). Yellow oil, $[\alpha]_D = +131.8^\circ$ ($c = 1.77$, $CHCl_3$). **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3487.

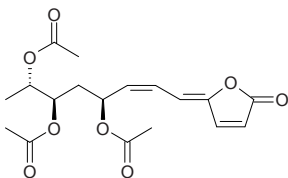
**16752 Pectinolide F**

6*S*-[3*S*,5*R*,6*S*-(triaceoxy)-1*Z*-hepteny]-5*S*-acetoxy-4*R*-methoxy-3,4,5,6-tetrahydro-4*H*pyran-2-one $C_{21}H_{30}O_{11}$ (458.47). Yellow oil, $[\alpha]_D = -10.0^\circ$ ($c = 0.67$, $CHCl_3$). **Source:** ZHI SHAN XIANG *Hyptis pectinata*. **Ref:** 3487.

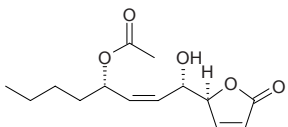


16753 Pectinolide G

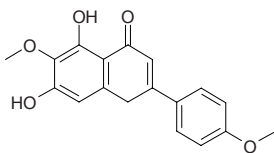
[2'Z,5(1'Z)]5-(4'S,6'R,7'S-triacetoxy-2-octenylidene)-2(5H)-furanone C₁₈H₂₂O₈ (366.37). Yellow oil, $[\alpha]_D = -4.4^\circ$ ($c = 1.0$, MeOH). Source: ZHI SHAN XIANG *Hyptis pectinata*. Ref: 3487.

**16754 Pectinolide H**

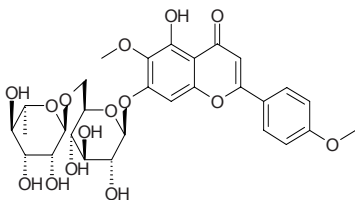
C₁₄H₂₀O₅ (268.31). Oil, $[\alpha]_{589\text{nm}}^{25} = -41^\circ$ ($c = 0.24$, CHCl₃). Pharm: Cytotoxic (KB, ED₅₀ > 20 μg/mL, control Ellipticine, ED₅₀ = 0.10 μg/mL); antibacterial (*Staphylococcus aureus*: ATCC25923, MIC = 32 μg/mL; XU-212, MIC = 64 μg/mL; SA-1199B, MIC = 64 μg/mL; EMRSA-15, MIC = 64 μg/mL; control Tetracycline, MIC = 0.08 μg/mL, 128 μg/mL, 64 μg/mL and 0.15 μg/mL respectively). Source: ZHI SHAN XIANG *Hyptis pectinata*. Ref: 5075.

**16755 Pectolarigenin**

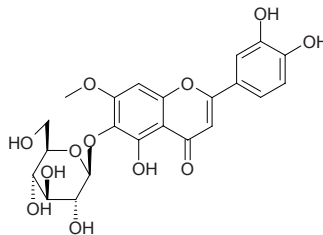
[520-12-7] C₁₇H₁₄O₆ (314.30). mp 215~216°C. Source: JIA LIAN QIAO YE *Duranta repens*. Ref: 6.

**16756 Pectolarin**

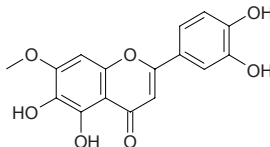
[28978-02-1] C₂₉H₃₄O₁₅ (622.59). mp 240~250°C (dec). Pharm: Diuretic and laxative (effective component in Yellow Toadflax, *Linaria vulgaris* (LIU CHUAN YU), used mainly in Russia); enhances myocardial contractility (rbt, iv); hemostatic Source: DA JI⁽⁴⁾ *Cirsium japonicum* (aerial parts or root: content scope = 0.78%~1.20%^[5501]), DI TANG HUA *Kerria japonica*, HONG CHE ZHOU CAO *Trifolium pratense*, LIU CHUAN YU *Linaria vulgaris*, TAI WAN JI *Cirsium japonicum* var. *takaense*. Ref: 6, 658, 5501.

**16757 Pedaliin**

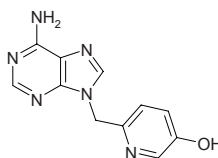
[22860-72-6] C₂₂H₂₂O₁₂ (478.41). mp 254°C (dec). Source: HU MA YE *Sesamum indicum*. Ref: 6.

**16758 Pedalitin**

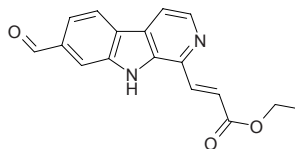
5,6,3',4'-Tetrahydroxy-7-methoxyflavone [22384-63-0] C₁₆H₁₂O₇ (316.27). Yellow acicular crystals, mp 300~301°C. Pharm: Δ⁵-Lipoxygenase inhibitor. Source: HU MA YE *Sesamum indicum*, LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00032%dw)^[4732], MAO LIAN HAO *Artemisia vestita*. Ref: 474, 658, 4732.

**16759 Pedatisectine A**

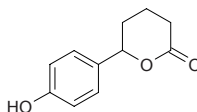
5-Hydroxy-2-pyridylmethyl-adenine [103823-31-0] C₁₁H₁₀N₆O (242.24). Colorless fine needles (MeOH), mp 282~284°C. Pharm: Inhibits sino-atrial rate and contraction of atrium Papillary muscle (dog); coronary vasodilator (*in vitro* heart, enhances blood flow through coronary arteries). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 3151, 3152.

**16760 Pedatisectine C**

[103805-66-9] C₁₇H₁₄N₂O₃ (294.31). mp 162~164°C. Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 3151.

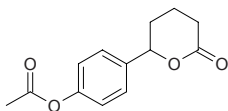
**16761 Pedicellanin**

[89647-77-8] C₁₁H₁₂O₃ (192.22). Plates (hexane-acetone), mp 125°C, $[\alpha]_D^{28} = 0^\circ$ (MeOH). Pharm: CNS activity (mus, 20mg/kg ip, has marked adaptogenic and anti-stress action). Source: HUA GENG LONG DAN *Gentiana pedicellata*. Ref: 3595.

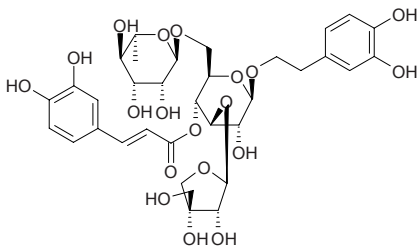


16762 Pedicellin

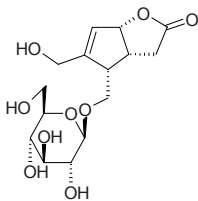
[6851-84-9] C₁₃H₁₄O₄ (234.25). Fine crystals (hexane–acetone), mp 110–112°C, [α]_D²⁸ = –12° (c = 0.34, CHCl₃). **Pharm:** CNS activity (mus, 20mg/kg ip, has marked adaptogenic and anti-stress action). **Source:** HUA GENG LONG DAN *Gentiana pedicellata*. **Ref:** 3595.

**16763 Pedicularioside A**

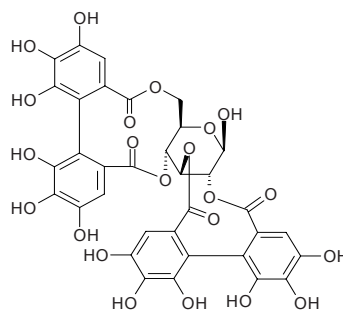
[135010-61-6] C₃₄H₄₄O₁₉ (756.72). Amorphous powder, [α]_D²² = –58.4° (c = 1.2, MeOH). **Pharm:** Antineoplastic (SMMC-7721 liver cancer, IC₅₀ = (94.8±2.0)μg/mL, MQc80-3 gastric adenocarcinoma cells, IC₅₀ = (101.6±2.8)μg/mL, L342 pulmonary adenoma, IC₅₀ = (97.6±5.0)μg/mL); antihemolytic (protects red blood cells against oxydation resulting in hemolysis); antioxidant (lipid peroxidization inhibitor, inhibits microsomal lipid peroxidization InRt = 15.6%, heperoxide InRt = 56.8%). **Source:** HONG WEN MA XIAN HAO *Pedicularis striata*, MEI GUAN MA XIAN HAO *Pedicularis decora*, SUI HUA MA XIAN HAO *Pedicularis spicata*, ZHU SI HONG WEN MA XIAN HAO *Pedicularis striata* ssp. *arachnoidea*. **Ref:** 3687, 3688, 3689, 3690, 3691, 3692.

**16764 Pedicularis lactone-1-O-β-D-glucoside**

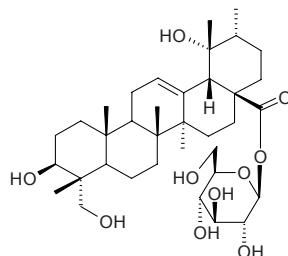
C₁₅H₂₂O₉ (346.34). White powder. **Source:** MEI GUAN MA XIAN HAO *Pedicularis decora*. **Ref:** 829.

**16765 Pedunculagin**

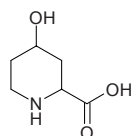
[7045-42-3] C₃₄H₂₄O₂₂ (784.56). Earthy yellow amorphous powder, easily soluble in MeOH and Me₂CO. **Pharm:** Antihepatotoxin (*in vitro*); antioxidant (hepatic cell mitochondria in cats, inhibits lipid peroxidization); antioxidant (SOD-like activity, EC₅₀ = 63.7μmol/L, control Gallic acid, EC₅₀ = 31.7μmol/L, L-Ascorbic acid, EC₅₀ = 34.6μmol/L)^[3408]; antioxidant (DPPH scavenger, EC₅₀ = 4.72μmol/L, control Gallic acid, EC₅₀ = 5.88μmol/L, L-Ascorbic acid, EC₅₀ = 6.25μmol/L)^[3408]. **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.219%fw)^[4695], HU TAO REN *Juglans regia*, JING JIE HUA *Stachyurus praecox*, SHAN CHA *Camellia japonica*, TAO JIN NIANG *Rhodomyrtus tomentosa*, XIAO MU MA HUANG *Casuarina stricta*, *Quercus* spp., *Rubus* spp., *Potentilla* spp., *Juglans* spp. **Ref:** 429, 658, 3408, 4695.

**16766 Pedunculoside**

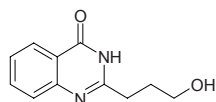
[42719-32-4] C₃₆H₅₈O₁₀ (650.86). White needles (MeOH), mp 212–214°C. **Source:** CHANG GENG DONG QING *Ilex pedunculosa*, GUANG LIANG YANG TONG *Adinandra nitida*, JIU BI YING *Ilex rotunda*, LUO TUO PENG *Peganum harmala*. **Ref:** 527, 1521, 2518.

**16767 Pegaline**

C₆H₁₁NO₃ (145.16). mp 294°C. **Source:** SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*]. **Ref:** 6.

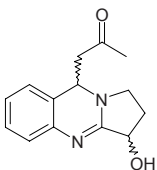
**16768 Pegamine**

[31431-93-3] C₁₁H₁₂N₂O₂ (204.23). **Source:** LUO TUO PENG *Peganum harmala*. **Ref:** 6.

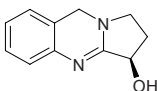


16769 Peganidine

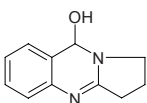
[28463-17-4] C₁₄H₁₆N₂O₂ (244.30). mp 189~190°C. Source: LUO TUO PENG *Peganum harmala*. Ref: 6, 1521.

**16770 Peganine**

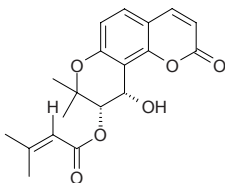
Vasicine C₁₁H₁₂N₂O (188.23). Acicular crystals (ethanol), mp 212°C, [α]_D¹⁴ = -254° (c = 2.4, chloroform), [α]_D¹⁴ = -62° (c = 2.4, ethanol). Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus sonne*, *Shigella* sp., *Bacillus proteus* and *Bacillus typhosus*); anthelmintic (roundworm); antispasmodic (*in vitro* and *in vivo*); choleric (cat, iv, ED = 5mg/kg; dog, sc, bile increases 40%~100%); gastric secretion promotor (ox); antihypertensive; oxytocic. Source: DA BO GU *Adhatoda vasica*, HUANG HUA ZI *Sida cordifolia*, LIU CHUAN YU *Linaria vulgaris*, LUO TUO PENG *Peganum harmala*, LUO TUO PENG ZI *Peganum harmala*. Ref: 6, 658, 1521.

**16771 Peganol**

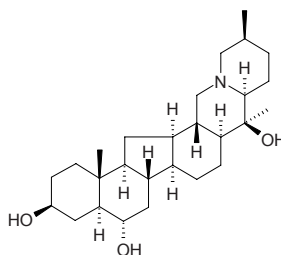
[36101-54-9] C₁₁H₁₂N₂O (188.23). mp 178~180°C. Source: LUO TUO PENG *Peganum harmala*. Ref: 6.

**16772 Peguangxienin**

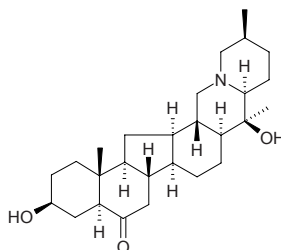
C₁₉H₂₀O₆ (344.37). White granular substance (acetone-cyclohexane), mp about 75°C, [α]_D¹² = +74° (c = 0.11, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**16773 Peimine**

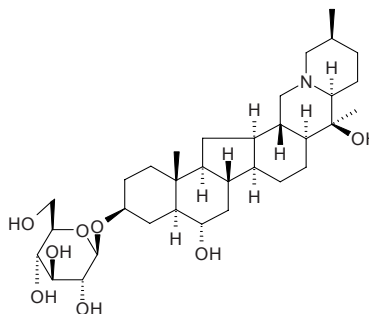
Verticine; Cevane-3,6,20-triol [23496-41-5] C₂₇H₄₅NO₃ (431.66). Acicular crystals (ethanol), mp 223~224°C, 268~270°C, [α]_D¹⁶ = -19.4° (ethanol), [α]_D¹⁷ = -20° (chloroform), [α]_D²⁵ = -15.8° (c = 0.19, EtOH), insoluble in water, soluble in most of organic solvents^[5507]. Pharm: ACE inhibitor (dose-dependent manner, IC₅₀ = 312.8 μmol/L)^[5414]; bronchial smooth muscle stimulant (cat and rbt, high dose, *in vitro*); bronchial smooth muscle relaxant (cat and rbt, low dose, *in vitro*); mydriatic (dog, cat and rbt); uterine stimulant (rbt, rat); LD₅₀ (mus, iv, hydrobromate) = 9.0mg/kg. Source: PING BEI MU *Fritillaria ussuriensis*, XI BEI MU *Fritillaria imperialis*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*] (dried bulb: content = 0.049%^[5508]); in 1932, the compound was isolated from the plant by Cheng-xia Zhao for the first time). Ref: 4, 528, 661, 5414, 5501, 5507, 5508.

**16774 Peiminine**

Verticinone [18059-10-4] C₂₇H₄₃NO₃ (429.65). mp 212~213°C, [α]_D = -62.5° (ethanol). [α]_D²⁵ = -75.0° (c = 0.2, EtOH), Pharm: ACE inhibitor (dose-dependent manner, IC₅₀ = 165.0 μmol/L)^[5414]; uterine stimulant. Source: PING BEI MU *Fritillaria ussuriensis*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*] (dried bulb: content = 0.019%^[5508]). Ref: 6, 658, 661, 5414, 5501, 5508.

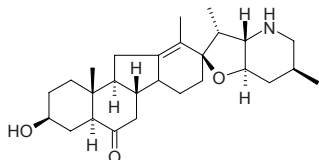
**16775 Peiminiside**

C₃₃H₅₅NO₈ (593.81). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 6.

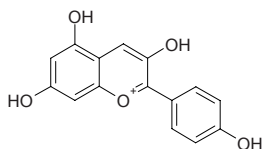


16776 Peimisine

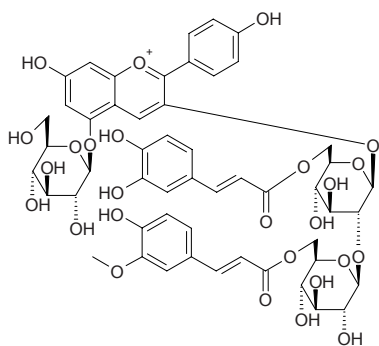
$C_{27}H_{41}NO_3$ (427.63). Colorless acicular crystals, mp 268–270°C (acetic ester–methanol), $[\alpha]_D^{20} = -34.8^\circ$ ($c = 0.24$, methanol); $[\alpha]_D^{25} = -16.7^\circ$ ($c = 0.12$, EtOH). **Pharm:** ACE inhibitor (dose-dependent manner, $IC_{50} = 526.5 \mu\text{mol/L}$)^[5414]. **Source:** HUA XI BEI MU *Fritillaria siechuanica*, NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*, YI BEI MU *Fritillaria pallidiflora*, PING BEI MU *Fritillaria ussuriensis*. **Ref:** 225, 271, 660, 5414.

**16777 Pelargonidin**

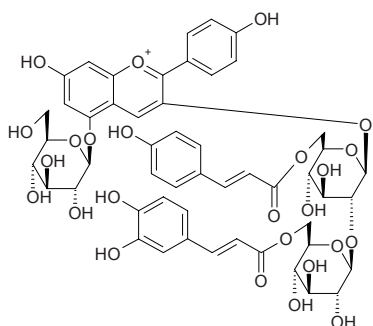
[7690-51-9] $C_{15}H_{11}O_5^+$ (271.25). **Pharm:** Antiviral; leukocyte elastase MMP-2/9 inhibitor^[4416]. **Source:** CHOU MO LI *Clerodendron fragrans*, FENG XIAN HUA *Impatiens balsamina*. **Ref:** 6, 658, 4416.

**16778 Pelargonidin-3-O-[6-O-(E)-caffeoyl-2-O-(6-(E)-feruloyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside]-5-O-(β-D-glucopyranoside)**

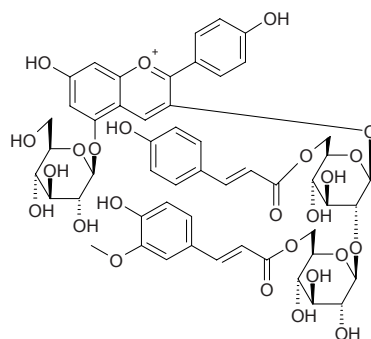
$C_{52}H_{55}O_{26}^+$ (1096.00). Red amorphous powder. **Source:** LAI FU *Raphanus sativus*. **Ref:** 1949.

**16779 Pelargonidin-3-O-[6-O-(E)-p-coumaroyl-2-O-(6-(E)-caffeoyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside]-5-O-(β-D-glucopyranoside)**

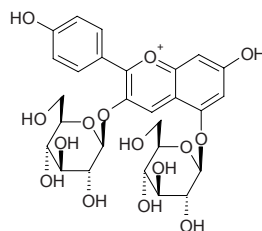
$C_{51}H_{53}O_{25}^+$ (1065.98). Red amorphous powder. **Source:** LAI FU *Raphanus sativus*. **Ref:** 1949.

**16780 Pelargonidin-3-O-[6-O-(E)-p-coumaroyl-2-O-(6-(E)-feruloyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside]-5-O-(β-D-glucopyranoside)**

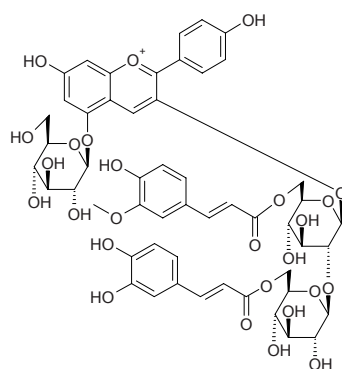
$C_{52}H_{55}O_{25}^+$ (1080.00). Red amorphous powder. **Source:** LAI FU *Raphanus sativus*. **Ref:** 1949.

**16781 Pelargonidin-3,5-diglucoside**

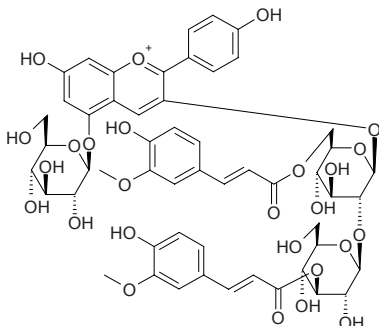
Polargonin $C_{27}H_{31}O_{15}^+$ (595.54). **Source:** BAI FAN DOU *Phaseolus vulgaris*, MA TI WEN TIAN ZHU KUI *Pelargonium zonale*, MU KU ER MO YAO *Commiphora mukul*, SHI LIU GEN *Punica granatum*, *Gladiolus* sp. **Ref:** 6, 658.

**16782 Pelargonidin-3-O-[6-O-(E)-feruloyl-2-O-(6-(E)-caffeoyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside]-5-O-(β-D-glucopyranoside)**

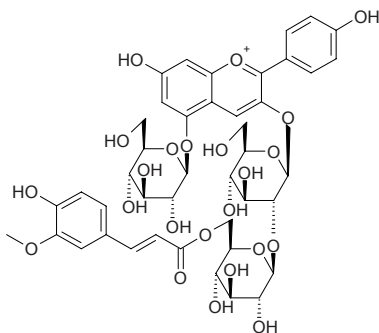
$C_{52}H_{55}O_{26}^+$ (1096.00). Red amorphous powder. **Source:** LAI FU *Raphanus sativus*. **Ref:** 1949.



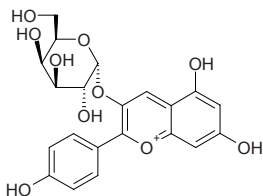
16783 Pelargonidin-3-O-[6-O-(E)-feruloyl-2-O-(2-(E)-feruloyl-β-D-glucopyranosyl)-(1→2)-β-D-glucopyranoside]-5-O-(β-D-glucopyranoside)
 $C_{53}H_{57}O_{26}^+$ (1110.03). Red amorphous powder. Source: LAI FU *Raphanus sativus*. Ref: 1949.



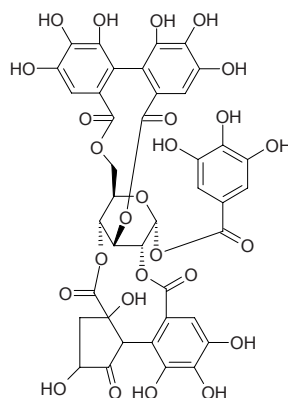
16784 Pelargonidin-3-O-[6-O-(E)-feruloyl-2-O-β-D-glucopyranosyl]-(1→2)-β-D-glucopyranoside(-5-O-β-D-glucopyranoside)
 $C_{43}H_{49}O_{23}^+$ (933.86). Red amorphous powder. Source: LAI FU *Raphanus sativus*. Ref: 1949.



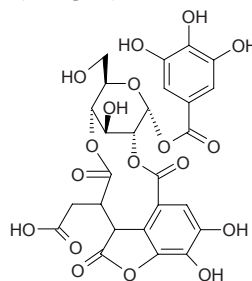
16785 Pelargonidin-3-galactoside
 $C_{21}H_{21}O_{10}$ (433.40). Source: QIU MU GUA *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*]. Ref: 6.



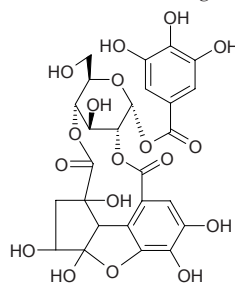
16786 Pelargoniin A
 $C_{40}H_{30}O_{26}$ (926.67). White amorphous powder, mp 220°C, $[\alpha]_D^{20} = -65.5^\circ$ ($c = 0.06$, MeOH). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). Ref: 3975.



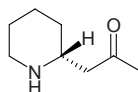
16787 Pelargoniin B
 $C_{26}H_{22}O_{18}$ (622.45). White amorphous powder, mp 214°C, $[\alpha]_D^{20} = -43.0^\circ$ ($c = 0.5$, MeOH). Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). Ref: 3975.



16788 Pelargoniin C
 $C_{26}H_{24}O_{18}$ (624.47). White amorphous powder, mp 210°C. Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). Ref: 3975.

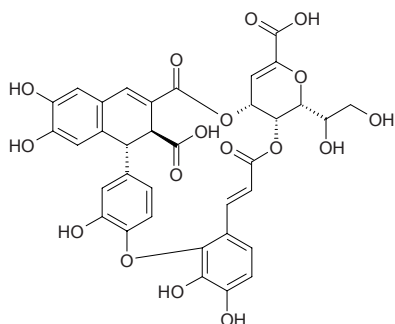


16789 Pelletierine
 Isopelletierine [4396-01-4] $C_8H_{15}NO$ (141.22). Pharm: Anthelmintic (racemate, liver flukes and tapeworm); LD_{50} (rbt, iv, racemate) = 40mg/kg. Source: AO ZHOU QIE *Solanum aviculare* [Syn. *Solanum laciniatum*], CUI MIAN SHUI QIE *Withania somnifera*, SHI LIU GEN *Punica granatum*, SHI LIU PI *Punica granatum*, TAI JING TIAN *Sedum acre*, *Lupinus formosus*. Ref: 6, 658, 1521.

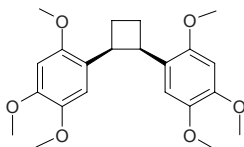


16790 Pelliatin

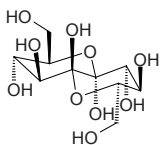
$C_{35}H_{28}O_{17}$ (720.60). Source: XI TAI *Pellia epiphylla*. Ref: 4549.

**16791 Pellucidin A**

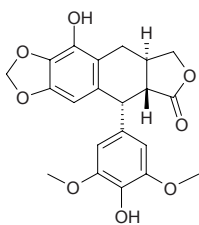
$C_{22}H_{28}O_6$ (388.46). Pale-white amorphous substance, mp 109.6~110.5°C (*n*-hexane-EtOAc). Source: CAO HU JIAO *Peperomia pellucida* (aerial parts). Ref: 5106.

**16792 Peltalosa**

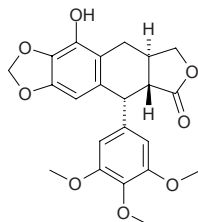
$C_{10}H_{18}O_{10}$ (298.25). Light brown solid, mp 187~189 °C, $[\alpha]_D^{20} = -310^\circ$ ($c = 0.01$, H_2O). Pharm: Hypoglycemic (alloxan diabetic mouse)^[4529]. Source: DUN ZHUANG LI JU *Psacalium peltatum* (root and rhizome). Ref: 4529.

**16793 α -Peltatin**

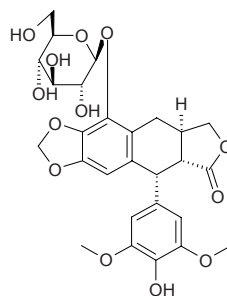
[568-53-6] $C_{21}H_{20}O_8$ (400.39). Colorless prismatic crystals (absolute ethanol), mp 238~241°C (dec); 236~246°C, $[\alpha]_D^{20} = -122.9^\circ$ ($c = 0.578$, chloroform). Pharm: Antineoplastic (mus, EAC cells, iv 0.1mg, inhibits cancer cell mitosis); anti-fertility agent (pregnant mus, orl 4mg); antiviral (HSV-1, measles virus). Source: BAI YA MA *Linum album*, DUN YE GUI JIU *Podophyllum peltatum*. Ref: 4, 5, 661.

**16794 β -Peltatin**

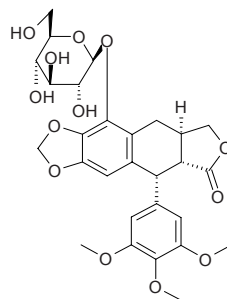
[518-29-6] $C_{22}H_{22}O_8$ (414.42). mp 238~241°C (dec). Source: BAI YA MA *Linum album*, DUN YE GUI JIU *Podophyllum peltatum*. Ref: 4, 5.

**16795 α -Peltatin glucoside**

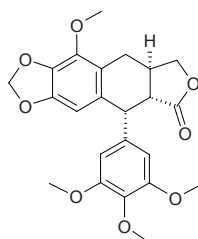
$C_{27}H_{30}O_{13}$ (562.53). mp 168~171°C. Pharm: Antineoplastic; inhibits mitosis (fibrocyte in chick, mus EAC cells, ip and lasts 6~20h); LD₅₀ (mus, ip) ≥ 200 mg/kg. Source: DUN YE GUI JIU *Podophyllum peltatum*. Ref: 5, 658.

**16796 β -Peltatin glucoside**

$C_{28}H_{32}O_{13}$ (576.56). mp 156~159°C. Pharm: Antineoplastic; inhibits mitosis (mus ascites carcinoma cells, 2mg iv, the action lasts 20h); inhibits herpes simplex; LD₅₀ (mus, ip) > 200 mg/kg. Source: DUN YE GUI JIU *Podophyllum peltatum*. Ref: 5, 658.

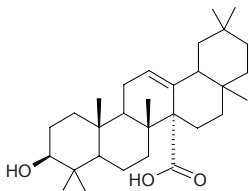
**16797 β -Peltatin A methyl ether**

$C_{23}H_{24}O_8$ (428.45). Pharm: Antineoplastic. Source: CHA ZI YUAN BAI *Juniperus sabina*, DUN YE GUI JIU *Podophyllum peltatum*. Ref: 658.

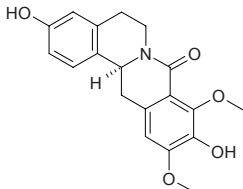


16798 β -Peltoboykinolic acid

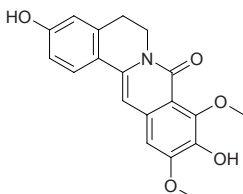
$C_{30}H_{48}O_3$ (456.72). White needles, mp 248~251°C. Source: ZANG YAO LUO JING JIN YAO *Chrysosplenium nudicaule*. Ref: 4547.

**16799 Pendulamine A**

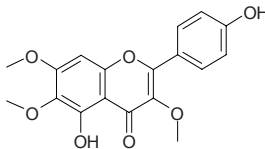
$C_{19}H_{19}NO_5$ (341.37). Brown solid, $[\alpha]_D^{26} = -25.0^\circ$ ($c = 0.4$, $CHCl_3$). Pharm: Antibacterial (gram-positive: *Bacillus subtilis*, MIC = 2.0 μ g/disc, control Konamycin sulphate, MIC = 1.25 μ g/disc; *Corynebacterium hoffmanii*, MIC = 0.02 μ g/disc, Konamycin sulphate, MIC = 0.62 μ g/disc; *Staphylococcus aureus*, MIC = 0.2 μ g/disc, Konamycin sulphate, MIC = 0.31 μ g/disc; *Streptococcus pyogenes*, MIC = 20 μ g/disc, Konamycin sulphate, MIC = 1.25 μ g/disc; *Streptococcus viridans*, MIC = 12.5 μ g/disc, Konamycin sulphate, MIC = 2.5 μ g/disc; *Micrococcus lysodicklycus*, MIC = 0.02 μ g/disc, Konamycin sulphate, MIC = 10 μ g/disc; gram negative: *Klebsiella pneumoniae*, MIC = 2 μ g/disc, Konamycin sulphate, MIC = 5 μ g/disc; *Pseudomonas aeruginosa*, MIC = 2 μ g/disc, Konamycin sulphate, MIC = 5 μ g/disc; *Salmonella paratyphi A*, MIC = 0.2 μ g/disc, Konamycin sulphate, MIC = 1.25 μ g/disc; *Salmonella typhi*, MIC = 0.02 μ g/disc, Konamycin sulphate, MIC = 2.5 μ g/disc). Source: BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*. Ref: 5386.

**16800 Pendulamine B**

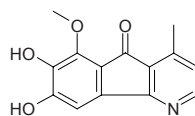
$C_{19}H_{17}NO_5$ (339.35). Reddish brown gum. Pharm: Antibacterial (gram-positive: *Corynebacterium hoffmanii*, MIC = 0.02 μ g/disc, control Konamycin sulphate, MIC = 0.62 μ g/disc; *Staphylococcus aureus*, MIC = 0.2 μ g/disc, Konamycin sulphate, MIC = 0.31 μ g/disc; *Streptococcus faecalis*, MIC = 2 μ g/disc, Konamycin sulphate, MIC = 0.31 μ g/disc; *Streptococcus pyogenes*, MIC = 20 μ g/disc, Konamycin sulphate, MIC = 1.25 μ g/disc; *Streptococcus viridans*, MIC = 0.02 μ g/disc, Konamycin sulphate, MIC = 2.5 μ g/disc; *Micrococcus lysodicklycus*, MIC = 0.02 μ g/disc, Konamycin sulphate, MIC = 10 μ g/disc; gram negative: *Bacillus pneumoniae*, MIC = 2 μ g/disc, Konamycin sulphate, MIC = 5 μ g/disc; *Salmonella paratyphi A*, MIC = 0.2 μ g/disc, Konamycin sulphate, MIC = 1.25 μ g/disc; *Salmonella typhi*, MIC = 0.2 μ g/disc, Konamycin sulphate, MIC = 2.5 μ g/disc). Source: BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*. Ref: 5386.

**16801 Penduletin**

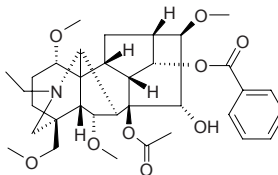
[569-80-2] $C_{18}H_{16}O_7$ (344.32). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2.

**16802 Penduline**

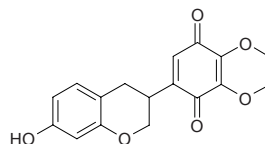
$C_{14}H_{11}NO_4$ (257.25). Orange crystals, mp 188~189°C. Pharm: Antibacterial (gram-positive: *Bacillus subtilis*, MIC = 25 μ g/disc, control Konamycin sulphate, MIC = 1.25 μ g/disc; *Corynebacterium hoffmanii*, MIC = 12.5 μ g/disc, Konamycin sulphate, MIC = 0.62 μ g/disc; *Staphylococcus aureus*, MIC = 12.5 μ g/disc, Konamycin sulphate, MIC = 0.31 μ g/disc; *Streptococcus faecalis*, MIC = 12.5 μ g/disc, Konamycin sulphate, MIC = 0.31 μ g/disc). Source: BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*. Ref: 5386.

**16803 Penduline**

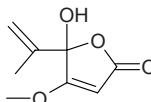
[81362-34-7] $C_{34}H_{47}NO_9$ (613.75). Crystals (absolute ethanol), mp 166~167°C. Pharm: Analgesic (animal trials); local anesthetic (animal trials). Source: TIE BANG CHUI *Aconitum pendulum*. Ref: 661, 1521.

**16804 Pendulone**

7-Hydroxy-3',4'-dimethoxyisoflavanquinone [69359-09-7] $C_{17}H_{16}O_6$ (316.31). Nacarat prismatic crystals, mp 154~156°C (chloroform-hexane), $[\alpha]_D^{20} = -42^\circ$ ($c = 2.0$, methanol). Pharm: Inhibits promotor of cancer. Source: KUN MING JI XUE TENG *Milletia dielsiana*. Ref: 900.

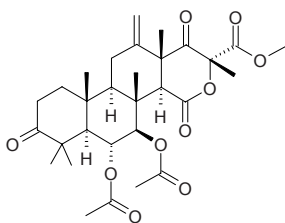
**16805 Penicillic acid**

$C_8H_{10}O_4$ (170.17). Pharm: Phytogrowth inhibitor (inhibits radicle growth of *Amaranthus hypochondriacus*, $IC_{50} = 6.57\mu$ mol/L); phytotoxic (highly toxic to corn seeds). Source: *Malbranchea aurantiaca*. Ref: 5273.

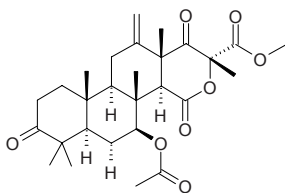


16806 Penisimplicin A

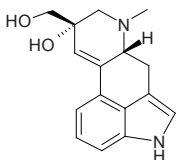
$C_{30}H_{40}O_{10}$ (560.65). Colorless needles, mp 242~245°C (benzene), $[\alpha]_D^{20} = -298^\circ$ ($c = 0.1$, $CHCl_3$). Source: JI JIAN DAN QING MEI *Penicillium simplicissimum*. Ref: 4501.

**16807 Penisimplicin B**

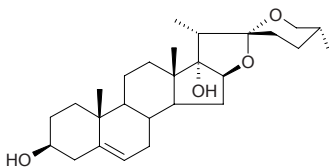
$C_{28}H_{38}O_8$ (502.61). Colorless needles, mp 252~254°C (MeOH), $[\alpha]_D^{20} = -118^\circ$ ($c = 0.11$, $CHCl_3$). Source: JI JIAN DAN QING MEI *Penicillium simplicissimum*. Ref: 4501.

**16808 Penniclavine**

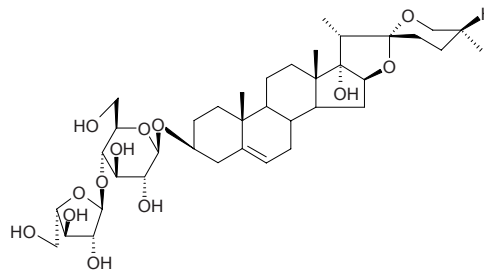
$C_{16}H_{18}N_2O_2$ (270.33). mp 222~225°C (dec). Pharm: Inhibits breeding (female rat); inhibits lactation hormone (10µg, InRt = 40%); similar action with ergotamine and ergometrine; used in treatment of bilious headache and obstetric process. Source: LIE YE QIAN NIU *Ipomoea hederacea*, MAI JIAO *Claviceps purpurea*, QIAN NIU ZI *Pharbitis nil*, TIE BANG CHUI *Aconitum pendulum*, YE MAI YIN BEI TENG *Argyrea nervosa*. Ref: 6, 658.

**16809 Pennogenin**

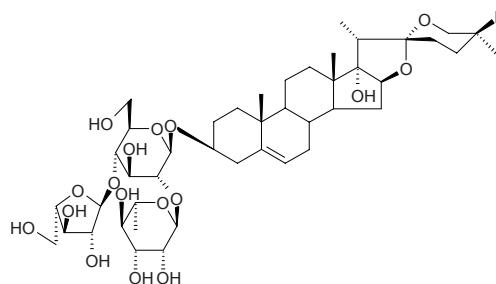
Spirost-5-ene-3,17-diol [507-89-1] $C_{27}H_{42}O_4$ (430.63). Crystals (MeOH or Et_2O), mp 245~247°C, 232~234°C, $[\alpha]_D = -104.3^\circ$ ($c = 1$, $CHCl_3$). Source: HE HUA YAN LING CAO *Trillium erectum*, RI BEN BAI SI CAO *Chionographis japonica*, YU ER QI *Trillium camtschaticum*, *Helioniopsis orientalis*, *Paris* spp. Ref: 6, 1521.

**16810 Pennogenin-3-O-α-L-arabinofuranosyl(1→4)-β-D-glucopyranoside**

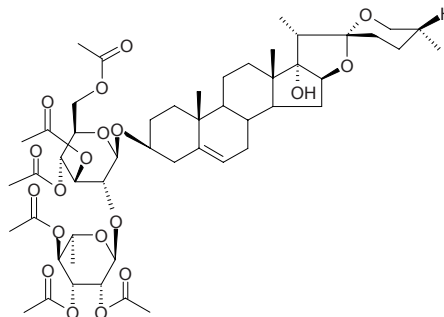
$C_{38}H_{60}O_{13}$ (724.89). Source: ZAO XIU *Paris polyphylla*. Ref: 2741.

**16811 Pennogenin-3-O-α-L-arabinofuranosyl(1→4)-[α-L-rhamnopyranosyl(1→2)]-β-D-glucopyranoside**

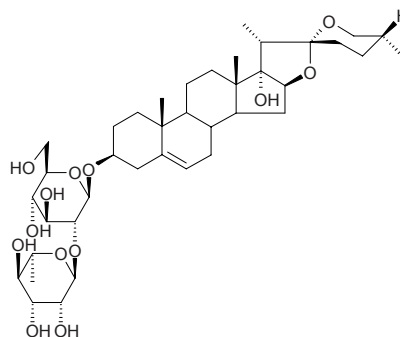
$C_{44}H_{70}O_{17}$ (871.04). Source: ZAO XIU *Paris polyphylla*. Ref: 2741.

**16812 Pennogenin-hexaacetyl-3-O-α-L-rhamnopyranosyl(1→2)-β-D-glucopyranoside**

$C_{51}H_{74}O_{19}$ (991.15). Source: ZAO XIU *Paris polyphylla*. Ref: 2741.

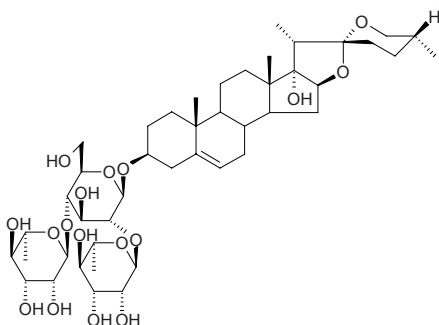
**16813 Pennogenin-3-O-α-L-rhamnopyranosyl(1→2)-β-D-glucopyranoside**

$C_{39}H_{62}O_{13}$ (738.92). Source: YUN NAN CHONG LOU *Paris polyphylla* var. *yunnanensis*. Ref: 2635.



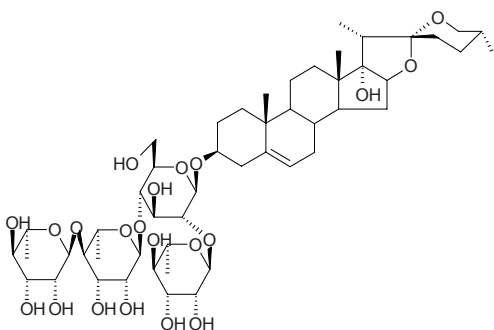
16814 Pennogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)-[α -L-rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranoside

C₄₅H₇₂O₁₇ (885.07). **Source:** YUN NAN CHONG LOU *Paris polyphylla* var. *yunnanensis*. **Ref:** 2635, 2673.



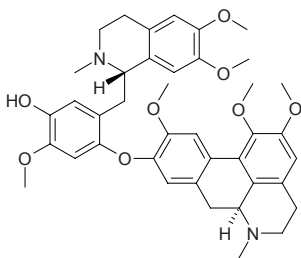
16815 Pennogenin rhamnosyl chactotrioseide

Pennogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 4)- α -L-rhamnopyranosyl(1 \rightarrow 4)-[α -L-rhamnopyranosyl(1 \rightarrow 2)]- β -D-glucopyranoside C₅₁H₈₂O₂₁ (1031.21). mp 223–227°C (dec). **Source:** HUA CHONG LOU *Paris polyphylla* var. *chinensis*, WANG SUN *Paris tetraphylla*, YUN NAN CHONG LOU *Paris polyphylla* var. *yunnanensis*, ZAO XIU *Paris polyphylla*. **Ref:** 6, 2741, 2635, 2673, 2991.



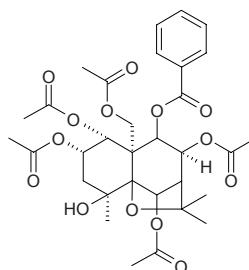
16816 Pennsylvanine

[53466-31-2] C₄₀H₄₆N₂O₈ (682.82). White powder, mp 110–112°C (Et₂O), [α]_D²⁵ = +138° (*c* = 0.6, MeOH). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 1000 μ g/mL). **Source:** WAI JUAN TANG SONG CAO *Thalictrum revolutum*, YI XING TANG SONG CAO *Thalictrum dioicum*, ZAXING TANG SONG CAO *Thalictrum polygamum*. **Ref:** 3596, 1648, 3597, 3598.



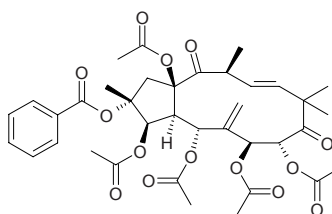
16817 1 α ,2 α ,6 β ,8 β ,13-Pentaacetoxy-9 β -benzoyloxy-4 β -hydroxy- β -dihydroagarofuran

C₃₂H₄₀O₁₄ (648.67). White amorphous powder, mp 117–118°C, [α]_D²⁴ = –23.2° (*c* = 0.46, CHCl₃). **Pharm:** Insecticidal (larvae of *Mythimna separata*, KD₅₀ = 159.8 μ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex): yield = 0.00053%dw). **Ref:** 3044.



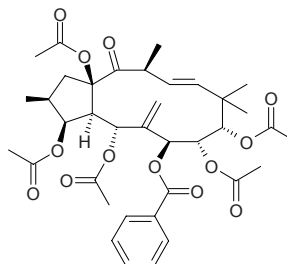
16818 3 β ,5 α ,7 β ,8 α ,15 β -Pentaacetoxy-2 α -benzoyloxyjatropa-6(17),11E-dien-9,14-dione

C₃₇H₄₄O₁₄ (712.75). **Pharm:** Cytotoxic (*in vitro*, B16 melanoma cell line, IC₅₀ > 5 μ g/mL, no significant cytotoxicity); irritant inactive (mouse ear inflammation model, ID₅₀ > 100 μ g/ear). **Source:** *Euphorbia turczanowii* (whole herb). **Ref:** 3078.

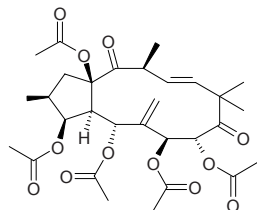


16819 3 β ,5 α ,8 α ,9 α ,15 β -Pentaacetoxy-7 β -benzoyloxyjatropa-6(17),11E-dien-14-one

C₃₇H₄₆O₁₃ (698.77). Colorless crystals, mp 160–161°C, [α]_D²⁵ = +45.8° (*c* = 0.46, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, B16 melanoma cell line, IC₅₀ > 5 μ g/mL, no significant cytotoxicity)^[3078]; irritant inactive (mouse ear inflammation model, ID₅₀ > 100 μ g/ear)^[3078]. **Source:** *Euphorbia turczanowii* (whole herb). **Ref:** 3078.

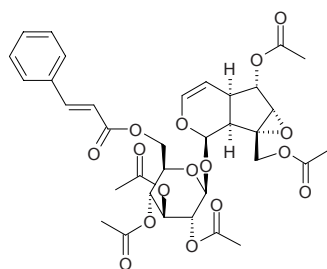


16820 *3β,5α,7β,8α,15β*-Pentaacetoxyjatropa-6(17),11*E*-dien-9,14-dione
 $C_{30}H_{40}O_{12}$ (592.65). Colorless crystals, mp 287~289°C, $[\alpha]_D^{25} = +41.9^\circ$ ($c = 0.48$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, B16 melanoma cell line, $IC_{50} > 5\mu g/mL$, no significant cytotoxicity); irritant inactive (mouse ear inflammation model, $ID_{50} > 100\mu g/ear$). **Source:** *Euphorbia turczaninowii* (whole herb). **Ref:** 3078.



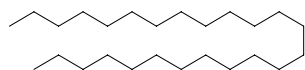
16821 Pentaacetyl-6'-cinnamoyl catalpol

$C_{34}H_{38}O_{16}$ (702.67). **Source:** HU HUANG LIAN *Picrorhiza kurrooa*. **Ref:** 3153.



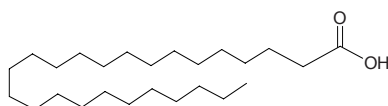
16822 Pentacosane

[629-99-2] $C_{25}H_{52}$ (352.69). **Source:** LU BIAN QING *Clerodendron cyrtophyllum*, PU HUANG *Typha angustata*, XIA YE XIANG PU *Typha angustifolia*. **Ref:** 2, 660.



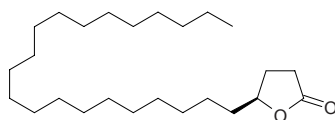
16823 *n*-Pentacosanoic acid

Neocerotic acid [506-38-7] $C_{25}H_{50}O_2$ (382.68). **Source:** BING GUO HU JI SHENG *Viscum multinerve*, MI LA *Apis cerana*, QIANG HUO *Notopterygium incisum*. **Ref:** 2, 660.



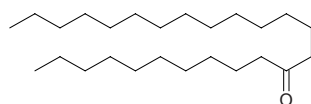
16824 Pentacosan-4-olide

$C_{25}H_{48}O_2$ (380.66). **Source:** FU CHUI FE LAO JU *Flourensia cernua*. **Ref:** 3433.



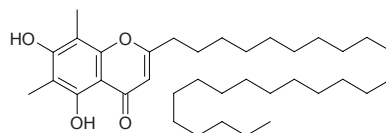
16825 11-Pentacosanone

$C_{25}H_{50}O$ (366.68). Solid, mp 66~68°C. **Source:** KU LANG SHU *Clerodendrum inerme*. **Ref:** 3382.



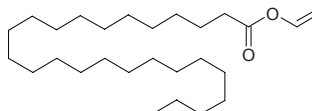
16826 2-*n*-Pentacosyl-5,7-dihydroxy-6,8-dimethyl chromone

$C_{36}H_{60}O_4$ (556.88). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2695.



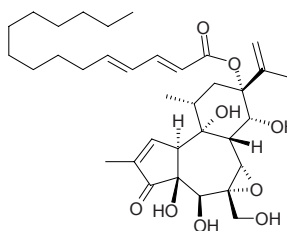
16827 Pentacosyl vinyl ester

$C_{27}H_{52}O_2$ (408.71). **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 3154.



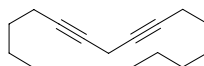
16828 Pentadecadienoic acid

$C_{15}H_{28}O_2$ (240.36). White amorphous powder, $[\alpha]_D^{26} = +6.1^\circ$ ($c = 0.6$, $CHCl_3$). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4159.



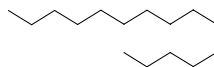
16829 7,10-Pentadecadiynoic acid

[22117-06-2] $C_{15}H_{24}$ (204.36). **Source:** DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. **Ref:** 2.



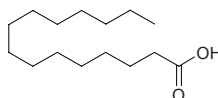
16830 *n*-Pentadecane

Pentadecane [629-62-9] $C_{15}H_{32}$ (212.42). **Source:** DANG SHEN *Codonopsis pilosula*, JIAN JIAN MU LAN *Magnolia acuminata*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], XI XIN *Asarum sieboldii*. **Ref:** 2, 658, 660.



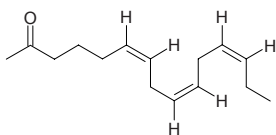
16831 Pentadecanoic acid

Pentadecylic acid [1002-84-2] $C_{15}H_{30}O_2$ (242.41). **Source:** DANG SHEN *Codonopsis pilosula*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUA LOU *Trichosanthes kirtlowii*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. **Ref:** 2, 660.

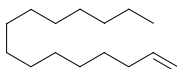


16832 (6Z,9Z,12Z)Pentadecatrien-2-one

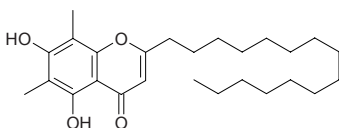
[139328-79-3] C₁₅H₂₄O (220.36). Oil. **Pharm:** Cytotoxic (MCF7, IC₅₀ = 5.15 μg/mL, HT29, IC₅₀ = 3.01 μg/mL). **Source:** GUI PI DIAO ZHANG *Lindera benzoin*. **Ref:** 1053.

**16833 1-Pentadecene**

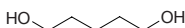
[13360-61-7] C₁₅H₃₀ (210.41). **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. **Ref:** 2.

**16834 2-n-Pentadecyl-5,7-dihydroxy-6,8-dimethyl chromone**

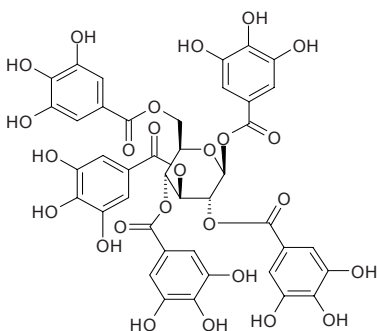
C₂₆H₄₀O₄ (416.61). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2695.

**16835 1,5-Pentadiol**

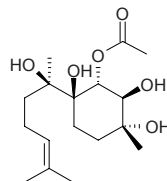
C₅H₁₂O₂ (104.15). **Source:** BAN XIA *Pinellia ternata*. **Ref:** 1401.

**16836 1,2,3,4,6-Pentagalloylglucose**

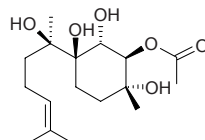
C₄₁H₃₂O₂₆ (940.70). **Pharm:** Anti-HIV; antioxidant (lipid peroxidation inhibitor in hepatic cellular mitochondria and microsome of rat); antihepatotoxin. **Source:** BAI LIAN *Ampelopsis japonica* [Syn. *Paullinia japonica*], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.043%fw)^[4695], HE ZI *Terminalia chebula*, MO SHI ZI *Quercus infectoria* (parasitic bee: *Cynips gallae-tinctoriae*), MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*], NUO WEI QI *Acer platanoides*, RI BEN PING PENG CAO *Nuphar japonicum*, XIAN XI LAO GUAN CAO *Geranium robertianum*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), *Rhus* sp., *Cotinus* sp., *Fuchsia* sp., *Epilobium* sp., *Rosa* sp. **Ref:** 2, 658, 660, 4205, 4695, 5501.

**16837 (1R*,2R*,3R*,6R*,7R*)1,2,3,6,7-Pentahydroxy-1-acetoxy-bisabol-10(11)-ene**

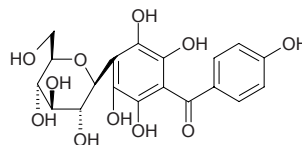
C₁₇H₃₀O₆ (330.43). [α]_D²⁴ = -24.1° (c = 0.45, CHCl₃). **Source:** JIN SE MU JU *Matricaria aurea*. **Ref:** 2301.

**16838 (1R*,2R*,3R*,6R*,7R*)1,2,3,6,7-Pentahydroxy-2-acetoxy-bisabol-10(11)-ene**

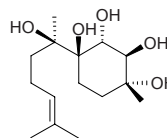
C₁₇H₃₀O₆ (330.43). **Source:** JIN SE MU JU *Matricaria aurea*. **Ref:** 2301.

**16839 2,3,4',5,6-Pentahydroxybenzophenone-4-C-glucoside**

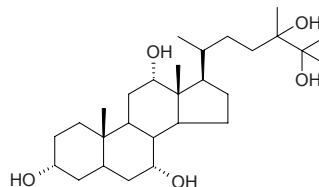
C₁₉H₂₀O₁₁ (424.36). Light-yellow powder, mp 168~171°C, [α]_D²¹ = +21° (c = 0.1, MeOH). **Source:** ZONG BAO GE NI DI MU *Gnidia involucrata* (aerial parts). **Ref:** 3996.

**16840 (1R*,2R*,3R*,6R*,7R*)1,2,3,6,7-Pentahydroxy-bisabol-10(11)-ene**

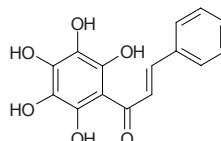
[248937-37-3] C₁₅H₂₈O₅ (288.39). [α]_D²⁴ = -39.9° (c = 0.36, CHCl₃). **Source:** JIN SE MU JU *Matricaria aurea*. **Ref:** 2301.

**16841 Pentahydroxybufostane**

C₂₈H₅₀O₅ (466.71). mp 172°C. **Source:** CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 6.

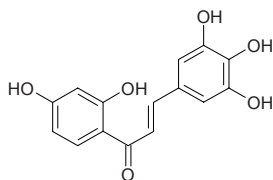
**16842 2',3',4',5',6'-Pentahydroxychalcone**

C₁₅H₁₂O₆ (288.26). Yellow solid. **Source:** BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (root and exudates). **Ref:** 3890.

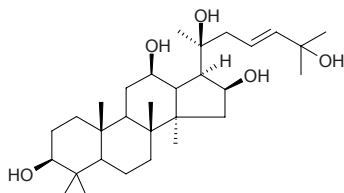


16843 3,4,5,2',4'-Pentahydroxychalcone

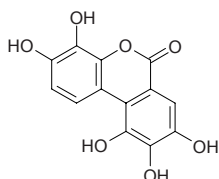
[2679-65-4] C₁₅H₁₂O₆ (288.26). Source: CI HUAI HUA *Robinia pseudoacacia*. Ref: 6.

**16844 (20S)-3β,12β,16β,25-Pentahydroxydammar-23-ene**

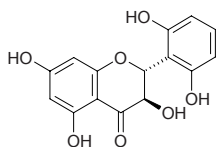
C₃₀H₅₂O₅ (492.75). Colorless needles, mp >250°C, [α]_D²⁵ = +47.6° (c = 0.5, CH₂Cl₂). Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.

**16845 3,4,8,9,10-Pentahydroxydibenzo[b,d]pyran-6-one**

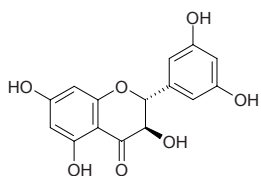
C₁₃H₈O₇ (276.20). Source: MAO CAO LONG *Ludwigia octovalvis* (fresh whole herb). Ref: 4827.

**16846 3,5,7,2',6'-Pentahydroxyflavanone**

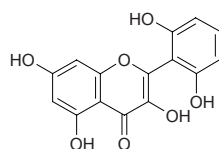
[82854-32-8] C₁₅H₁₂O₇ (304.26). Needles (MeOH), mp 221–225°C (dec). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660, 1521.

**16847 (+)-3,5,7,3',5'-Pentahydroxyflavanone**

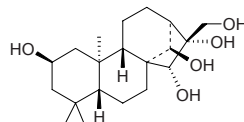
C₁₅H₁₂O₇ (304.26). Yellowish acicular crystals, mp 218–220°C, [α]_D¹⁵ = +23.7° (c = 0.11, methanol). Source: ZHI JU ZI *Hovenia dulcis*. Ref: 391.

**16848 3,5,7,2',6'-Pentahydroxy flavone**

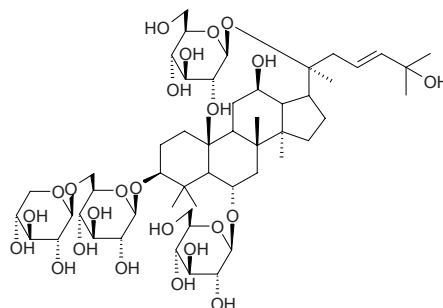
Viscudulin I [92519-95-4] C₁₅H₁₀O₇ (302.24). mp 293°C (dec). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660, 1521.

**16849 ent-2α,14α,15β,16S,17-Pentahydroxy kaurane**

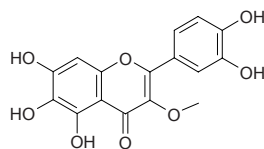
C₂₀H₃₄O₅ (354.49). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**16850 3β,6α,12β,20S,25-Pentahydroxyl-dammar-23-ene-6-O-β-D-glucopyranoside-20-O-β-D-glucopyranosyl-3-O-β-D-xylopyranosyl(1→6)-D-glucopyranoside**

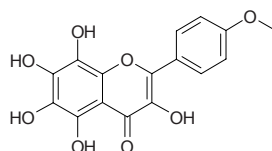
C₅₃H₉₀O₂₄ (1111.29). White powder, mp 201–203°C. Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2267.

**16851 5,6,7,3',4'-Pentahydroxy-3-methoxyflavone**

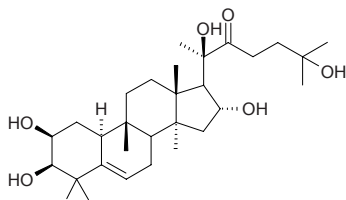
Quercetagenin 3-methyl ether [64190-88-1] C₁₆H₁₂O₈ (332.26). mp 218–220°C. Pharm: α-Glucosidase inhibitor (rat small intestine, 50 μmol/L, InRt = 62%, IC₅₀ = 31 μmol/L); invertase inhibitor (rat small intestine, IC₅₀ = 28 μmol/L, 50 μmol/L, InRt = 64%); aldose reductase inhibitor (rat eye lens, IC₅₀ = 0.058 μmol/L, ox eye lens, IC₅₀ = 0.37 μmol/L). Source: HUANG HUA HAO *Artemisia annua*. Ref: 900.

**16852 3,5,6,7,8-Pentahydroxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one**

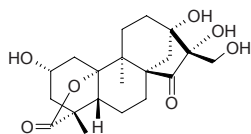
3,5,6,7,8-Pentahydroxy-4'-methoxy flavone C₁₆H₁₂O₈ (332.27). Colorless solid. Source: BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (shoot). Ref: 3890.



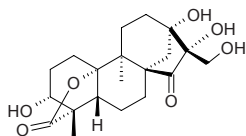
16853 2,3,16,20,25-Pentahydroxy-9-methyl-19-norlanost-5-en-22-one
 $C_{30}H_{50}O_6$ (506.73). Source: HU HUANG LIAN *Picrorhiza kurroa*. Ref: 3156.



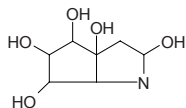
16854 2 α ,10 α ,13 α ,16 α ,17-Pentahydroxy-9 α -methyl-15-oxo-20-norkauran-19-oic acid (19,10)-lactone
 $C_{20}H_{28}O_7$ (380.44). White needles, mp 100~103°C, $[\alpha]_D^{25} = +15.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.



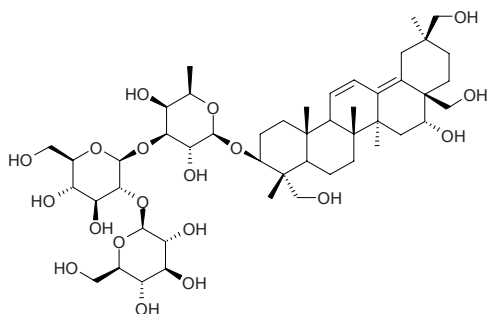
16855 3 α ,10 α ,13 α ,16 α ,17-Pentahydroxy-9 α -methyl-15-oxo-20-norkaur-an-19-oic acid γ -lactone
 $C_{20}H_{28}O_7$ (380.44). White crystals, mp 85~90°C, $[\alpha]_D^{25} = +5.3^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.



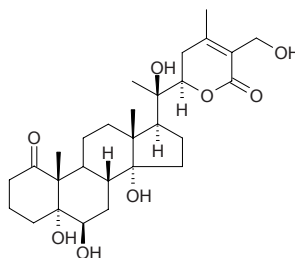
16856 1,2,3,4,7-Pentahydroxy-6-nitrobicyclo[3.3.0]octane
 $C_7H_{13}NO_5$ (191.19). Source: GOU QI GEN PI *Lycium chinense*. Ref: 3157.



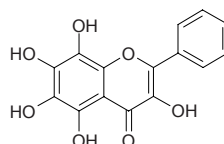
16857 3 β ,16 α ,23,28,30-Pentahydroxyolean-11,13(18)-diene 3-O- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranoside
 $C_{48}H_{78}O_{19}$ (959.15). Amorphous powder, $[\alpha]_D^{25} = -27.5^\circ$ ($c = 0.08$, MeOH). Source: DUO CI CHAI HU *Bupleurum spinosum* (root). Ref: 3980.



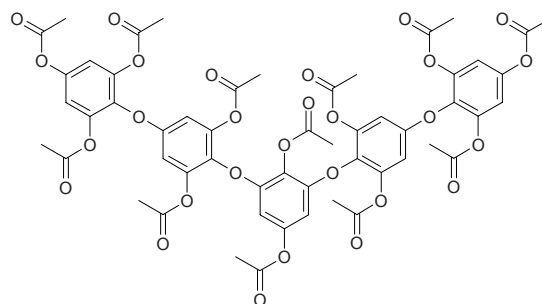
16858 (20R,22R)-5 α ,6 β ,14 α ,20,27-Pentahydroxy-1-oxowitha-24-enolide
 $C_{28}H_{42}O_8$ (506.64). Amorphous powder, $[\alpha]_D = +72.5^\circ$ ($c = 0.2$, MeOH). Source: DENG LONG CAO *Physalis peruviana*. Ref: 1915.



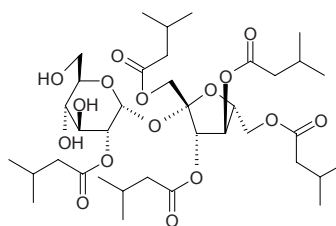
16859 3,5,6,7,8-Pentahydroxy-2-phenyl-4H-1-benzopyran-4-one
3,5,6,7,8-Pentahydroxy flavone $C_{15}H_{10}O_7$ (302.24). Colorless solid. Source: BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (root and exudates). Ref: 3890.



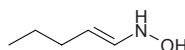
16860 Pentaisofulhalol dodecaacetate
 $C_{54}H_{46}O_{28}$ (1142.95). Source: SHENG ZAO *Chorda filum*. Ref: 3158.



16861 1',3,3',4',6'-Pentakis-O-(3-methylbutanoyl)- β -D-fructofuranosyl α -D-glucopyranoside
 $C_{37}H_{62}O_{16}$ (762.90). Yellowish oil, $[\alpha]_D^{20} = +2.71^\circ$ ($c = 0.7$, CH_2Cl_2). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 3412.

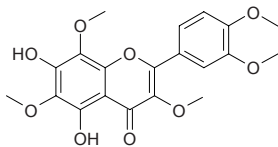


16862 Pentaldehyde oxime
 $C_5H_{11}NO$ (101.15). Source: BAN XIA *Pinellia ternata*. Ref: 1401.

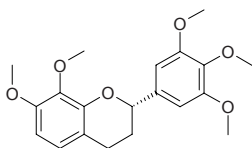


16863 3,6,8,3',4'-Pentamethoxy-5,7-dihydroxyflavone

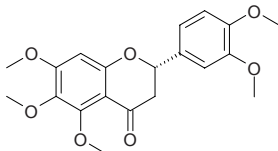
$C_{20}H_{20}O_9$ (404.38). Yellow crystals [Source](#): RU NI WENG DAO MI ZHU YU *Melicope coodeana*. [Ref](#): 1975.

**16864 (2S)-7,8,3',4',5'-Pentamethoxyflavan**

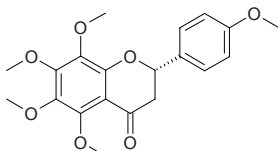
[133342-91-3] $C_{20}H_{24}O_6$ (360.41). Colorless oil, $[\alpha]_D^{20} = -75.0^\circ$ ($c = 0.30$, $CHCl_3$). [Pharm](#): Cytotoxic (hmn: melanotic carcinoma $ED_{50} = 8.9\mu g/mL$, colon cancer $ED_{50} = 15.8\mu g/mL$, nasopharyngeal carcinoma $ED_{50} = 13.3\mu g/mL$, vincristine-resistant KB $ED_{50} = 2.1\mu g/mL$; mus: lymph leukemia cell $ED_{50} = 5.4\mu g/mL$). [Source](#): YA MAI JIA YING TAO *Muntingia calabura*. [Ref](#): 3599.

**16865 (2S)-5,6,7,3',4'-Pentamethoxyflavanone**

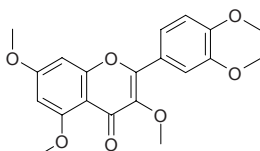
$C_{20}H_{22}O_7$ (374.39). Yellow oil, $[\alpha]_D = 0^\circ$ ($c = 0.1325$, MeOH). [Source](#): RU JU *Citrus kinokuni* (peel). [Ref](#): 4132.

**16866 (2S)-5,6,7,8,4'-Pentamethoxyflavanone**

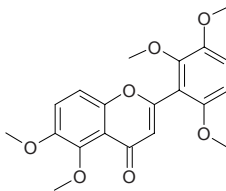
$C_{20}H_{22}O_7$ (374.39). Yellow oil, $[\alpha]_D = +8^\circ$ ($c = 0.074$, MeOH). [Source](#): RU JU *Citrus kinokuni* (peel). [Ref](#): 4132.

**16867 3,5,7,3',4'-Pentamethoxyflavone**

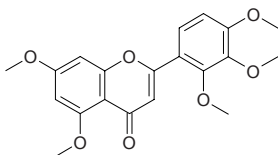
[1247-97-8] $C_{20}H_{20}O_7$ (372.38). Yellowish plate crystals (MeOH), mp 150–151°C. [Pharm](#): Vasodilator (rat aorta strip, contraction caused by arterenol, KCl); cAMP phosphodiesterase inhibitor (rat heart, $IC_{50} = 7.1\mu mol/L$, rat brain, $IC_{50} = 6.3\sim 10.2\mu mol/L$, bovine heart, $IC_{50} = 129\mu mol/L$); anti-inflammatory (rat, swollen foot model caused by carrageenan, 300mg/kg orl, $InRt = 25.3\%$); cytotoxic (KB, $ED_{50} = 25\mu g/mL$). [Source](#): DU HONG HUA *Callicarpa formosana*, QIN ZHUANG AO CHUN JIANG *Boesenbergia pandurata*, SAN YE MI ZHU YU *Melicope triphylla*. [Ref](#): 1555.

**16868 5,6,2',3',6'-Pentamethoxyflavone**

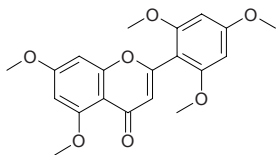
$C_{20}H_{20}O_7$ (372.38). Yellow amorphous solid. [Source](#): SI JI XIANG ROU GUO *Casimiroa tetramera* (leaf). [Ref](#): 5262.

**16869 5,7,2',3',4'-Pentamethoxyflavone**

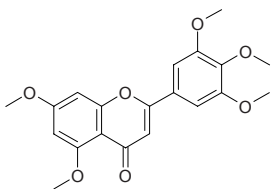
$C_{20}H_{20}O_7$ (372.38). Colorless needles ($CHCl_3$), mp 166–167°C. [Source](#): TIAO WEN CHUAN XIN LIAN *Andrographis lineata*. [Ref](#): 3390.

**16870 5,7,2',4',6'-Pentamethoxyflavone**

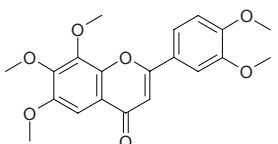
$C_{20}H_{20}O_7$ (372.38). Pale yellow solid, mp 192–194°C. [Source](#): NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula*. [Ref](#): 1936.

**16871 5,7,3',4',5'-Pentamethoxyflavone**

[53350-26-8] $C_{20}H_{20}O_7$ (372.38). Needles (MeOH), prisms ($CHCl_3$), mp 196–197°C, 193°C. [Source](#): JIU LI XIANG GEN *Murraya paniculata* [Syn: *Chalcas paniculata*], JU PI *Citrus reticulata*, LONG XU TENG *Bauhinia championii*. [Ref](#): 1295, 2910.

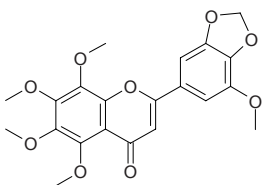
**16872 6,7,8,3',4'-Pentamethoxyflavone**

$C_{20}H_{20}O_7$ (372.38). [Source](#): XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0082%dw). [Ref](#): 3053.

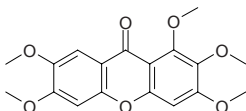


16873 5,6,7,8,5'-Pentamethoxy-3',4'-methylenedioxyflavone

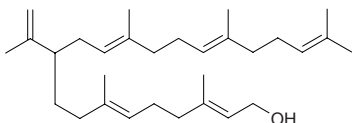
$C_{21}H_{20}O_9$ (416.39). **Pharm:** Cytotoxic inactive (HeLa, $IC_{50} > 200\mu\text{g/mL}$, control Mitomycin C, $IC_{50} = 1.7\mu\text{g/mL}$). **Source:** TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4092.

**16874 1,2,3,6,7-Pentamethoxyxanthone**

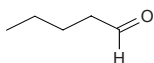
$C_{18}H_{18}O_7$ (346.34). **Source:** YUAN ZHI *Polygala tenuifolia*. **Ref:** 3159.

**16875 (2E,6E,12E,16E)-3,7,13,17,21-Pentamethyl-10-(1-methylethenyl)-2,6,12,16,20-docosapentaen-1-ol**

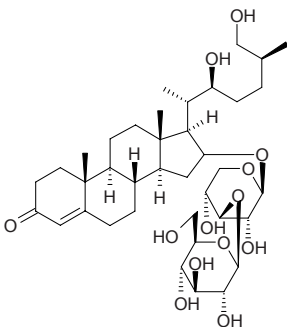
$C_{30}H_{50}O$ (426.73). Colorless oil. **Source:** *Cupania latifolia* (leaf). **Ref:** 4496.

**16876 Pentanal**

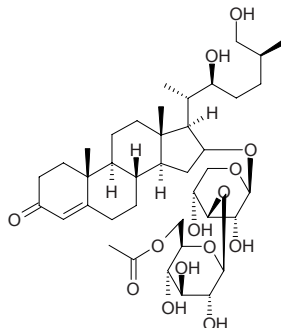
Valeric aldehyde [110-62-3] $C_5H_{10}O$ (86.13). bp 103°C. **Source:** DA SUAN *Allium sativum*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. **Ref:** 2, 6.

**16877 Pentandroside A**

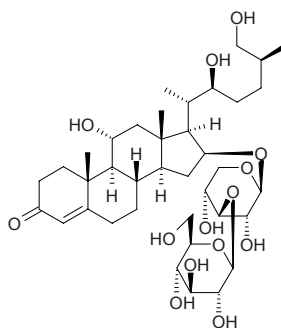
(22*S*,25*S*)-16 β ,22,26-Trihydroxycholest-4-en-3-one
16-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside $C_{38}H_{62}O_{13}$ (726.91).
Amorphous powder, $[\alpha]_D^{25} = +18^\circ$ ($c = 0.1$, MeOH). **Source:** WU XIONG
RUI JI LI *Tribulus pentandrus* (aerial parts). **Ref:** 3877.

**16878 Pentandroside B**

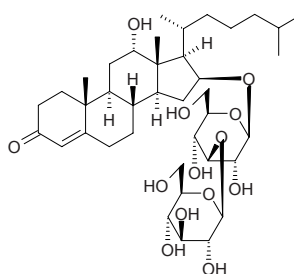
(22*S*,25*S*)-16 β ,22,26-Trihydroxycholest-4-en-3-one
16-*O*-[6-*O*-acetyl- β -D-glucopyranosyl]-(1 \rightarrow 3)- β -D-xylopyranoside
 $C_{40}H_{64}O_{14}$ (768.95). Amorphous powder, $[\alpha]_D^{25} = +25^\circ$ ($c = 0.1$, MeOH).
Source: WU XIONG RUI JI LI *Tribulus pentandrus* (aerial parts). **Ref:** 3877.

**16879 Pentandroside C**

(22*S*,25*S*)-11 α ,16 β ,22,26-Tetrahydroxycholest-4-en-3-one
16-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside $C_{38}H_{62}O_{14}$ (742.91).
Amorphous powder, $[\alpha]_D^{25} = +27.3^\circ$ ($c = 0.1$, MeOH). **Source:** WU XIONG
RUI JI LI *Tribulus pentandrus* (aerial parts). **Ref:** 3877.

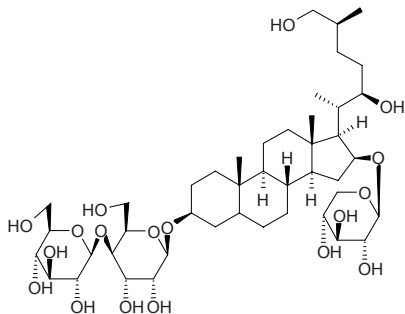
**16880 Pentandroside D**

(25*S*)-12 α ,16 β -Dihydroxycholest-4-en-3-one
16-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside $C_{39}H_{64}O_{13}$ (740.94).
Amorphous powder, $[\alpha]_D^{25} = +12^\circ$ ($c = 0.1$, MeOH). **Source:** WU XIONG
RUI JI LI *Tribulus pentandrus* (aerial parts). **Ref:** 3877.

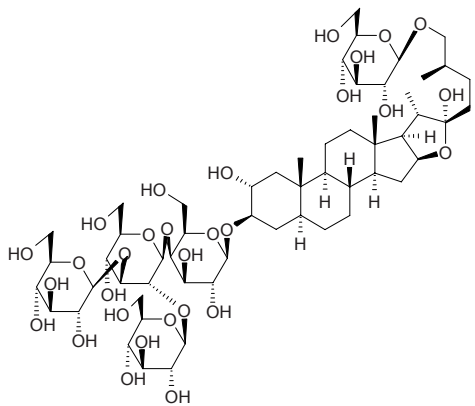


16881 Pentandroside E

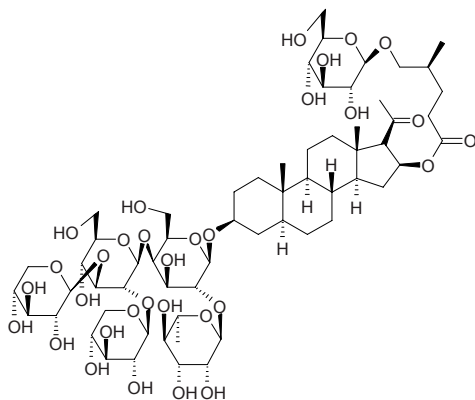
(2*S*,25*S*)-16-*O*- β -*D*-Xylopyranosyl-5 α -cholestan-3 β ,16 β ,22,26-tetraol
3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₄₄H₇₆O₁₈ (893.09).
Amorphous powder, $[\alpha]_D^{25} = +41^\circ$ ($c = 0.1$, MeOH). **Source:** WU XIONG
RUI JI LI *Tribulus pentandrus* (aerial parts). **Ref:** 3877.

**16882 Pentandroside F**

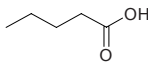
(2*S*)-26-*O*- β -*D*-Glucopyranosyl-5 α -furostan-2 α ,3 β ,22 α ,26-tetraol
3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-*O*- β -*D*-glu
copyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₅₇H₉₆O₃₀ (1261.38). Amorphous
powder, $[\alpha]_D^{25} = -53.0^\circ$ ($c = 0.1$, MeOH). **Source:** WU XIONG RUI JI LI
Tribulus pentandrus (aerial parts). **Ref:** 3877.

**16883 Pentandroside G**

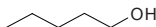
16 β -[(4'*S*)-5'-(β -*D*-Glucopyranosyloxy)-4'-methylpentanoyloxy]-3 β -hydroxy-
5 α -pregnan-20-one 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-xylopyranosyl-
syl-(1 \rightarrow 2)-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -
D-galactopyranoside} C₆₁H₁₀₀O₃₂ (1345.46). Amorphous powder, $[\alpha]_D^{25} =$
 -13° ($c = 0.1$, MeOH). **Source:** WU XIONG RUI JI LI *Tribulus pentandrus*
(aerial parts). **Ref:** 3877.

**16884 Pentanic acid**

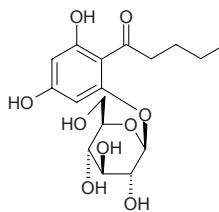
Valeric acid [109-52-4] C₅H₁₀O₂ (102.13). **Pharm:** LD₅₀ (mus, iv) =
1290mg/kg. **Source:** CHAI HU *Bupleurum chinense*, HAN QIN *Apium*
graveolens, KONG SHI CHUN *Ulvia pertusa*, MU HE *Rodgersia aesculifolia*,
QIAN NIU ZI *Pharbitis nil*, SANG YE *Morus alba*, SHUI LIAO *Polygonum*
hydropiper, TAO YE LIAO *Polygonum persicaria*, XIE CAO *Valeriana*
officinalis, YAN CAO *Nicotiana tabacum*, YING SHAN HONG
Rhododendron mucronulatum, ZHANG SHU PI *Cinnamomum camphora*, ZI
CAI *Porphyra tenera*. **Ref:** 2, 658, 660.

**16885 Pentanol**

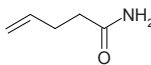
[71-41-0] C₅H₁₂O (88.15). **Source:** FANG FENG *Saposhnikovia divaricata*
[Syn. *Ledebouriella seseloides*]. **Ref:** 2.

**16886 1-[(Pentanoyl)phlorogluciny]- β -*D*-glucopyranoside**

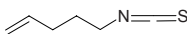
C₁₇H₂₄O₉ (372.38). Colorless gummy solid, $[\alpha]_D^{25} = -58.6^\circ$ ($c = 0.14$, MeOH).
Pharm: Lipoxygenase inhibitor (lipoxygenase (1.13.11.12) type I-B, IC₅₀ =
(44.9 \pm 0.5) μ mol/L, control Baicalein, IC₅₀ = (22.6 \pm 0.1) μ mol/L)^[442]. **Source:**
YI HUA MU LAN *Indigofera heteranthazha* (Whole herb). **Ref:** 4442.

**16887 4-Pentenamide**

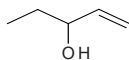
C₅H₉NO (99.13). Colorless lamellar crystals, mp 98.0~100.0°C. **Source:** BO
NIANG HAO *Descurainia Sophia* (seed). **Ref:** 4903.

**16888 4-Pentenyl isothiocyanate**

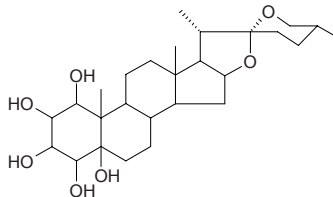
[18060-79-2] C₆H₉NS (127.21). bp 75°C/12mmHg. **Pharm:** Prevents cancer
(animal model). **Source:** JIE ZI *Brassica juncea*. **Ref:** 6, 1582.

**16889 1-Penten-3-ol**

[616-25-1] C₅H₁₀O (86.13). bp 114~116°C. **Source:** LUO HUA SHENG ZHI
YE *Arachis hypogaea*. **Ref:** 6.

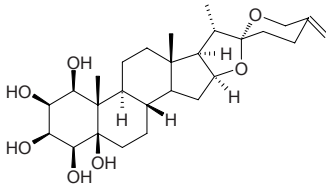
**16890 Pentolgenin**

C₂₇H₄₄O₇ (480.65). **Source:** JI XIANG CAO *Reineckea carnea*. **Ref:** 3160.

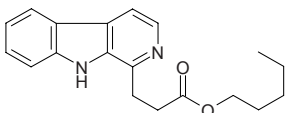


16891 $\Delta^{25(27)}$ -Pentrogenin

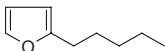
$C_{27}H_{42}O_7$ (478.63). **Pharm:** Cytotoxic (*in vitro*, hmn gastric tumor cell NUGC, 50 μ mol/L, InRt = 100%; hmn nasopharyngeal carcinoma cell HONE-1, 50 μ mol/L, InRt = 100%). **Source:** KAI KOU JIAN *Tupistra chinensis* (underground part). **Ref:** 4676.

**16892** *n*-Pentyl- β -carboline-1-propionate

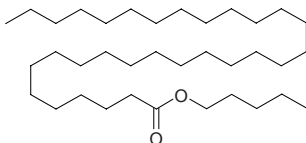
$C_{19}H_{22}N_2O_2$ (310.40). Yellow powder (benzene), mp 127°C (dec). **Pharm:** Antimalarial inactive (*Plasmodium falciparum* clones W2, D6, and TM91C235)^[4728]. **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000031%dw), *Eurycoma* sp. **Ref:** 4556, 4728.

**16893** 2-Pentylfuran

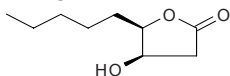
[3777-69-3] $C_9H_{14}O$ (138.21). Oil. **Source:** CHAI SHOU *Bupleurum chaishouii*, XIA YE XIANG PU *Typha angustifolia*, ZUO JIANG CAO *Oxalis corniculata* [Syn. *Oxalis repens*]. **Ref:** 3161, 3162, 1402.

**16894** Pentyl hentriacontanoate

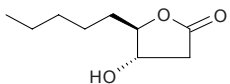
$C_{36}H_{72}O_2$ (536.97). White solid, mp 60–62°C. **Source:** RUAN GU ZAO *Chondria armata* [Syn. *Lophura armata*]. **Ref:** 5080.

**16895** erythro-5-*n*-Pentyl-4-hydroxytetrahydrofuran-2-one

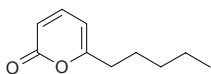
$C_9H_{16}O_3$ (172.23). Colorless liquid. **Source:** YANG HONG SHAN *Pimpinella thelungiana*. **Ref:** 817.

**16896** threo-5-*n*-Pentyl-4-hydroxy tetrahydrofuran-2-one

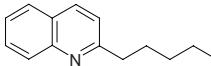
$C_9H_{16}O_3$ (172.23). Colorless liquid. **Source:** YANG HONG SHAN *Pimpinella thelungiana*. **Ref:** 817.

**16897** 6-*n*-Pentyl- α -pyrone

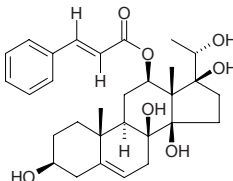
$C_{10}H_{14}O_2$ (166.22). **Pharm:** Tyrosinase inhibitor (IC₅₀ = 0.8 μ mol/L, control Kojic acid, IC₅₀ = 7.7 μ mol/L, used as a functional personal-care compound)^[4457]. **Source:** *Myrothecium* sp. **Ref:** 4457.

**16898** 2-*n*-Pentylquinoline

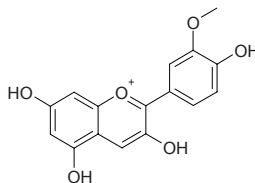
[93005-16-4] $C_{14}H_{17}N$ (199.30). Oil. **Pharm:** Antileishmanial (*in vitro*: *Leishmania* sp. 2903 IC₉₀ = 100 μ g/mL, *Trypanosoma cruzi* IC₉₀ = 100 μ g/mL, mus-infected *Leishmania amazonensis*); Antiplasmodial (*in vivo*, mus, infected by *Plasmodium vinckei*, 0.31mmol/L/kg, survival rate = 100%); plant growth and germination inhibitor (lettuce WO JU *Lactuca sativa*); molluscicide (kills snails, 20mg/L effective). **Source:** BAO PIAN TU LA SHU *Galipea bracteata*, CHANG HUA TU LA SHU *Galipea longiflora*. **Ref:** 3600, 3601, 3602, 3603.

**16899** Penupogenin

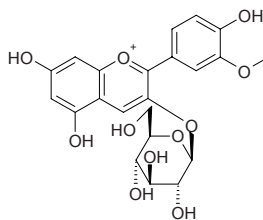
[27526-87-0] $C_{30}H_{40}O_7$ (512.65). mp 145–150°C. **Source:** BAI SHOU WU *Cynanchum bungei*. **Ref:** 6.

**16900** Peonidin

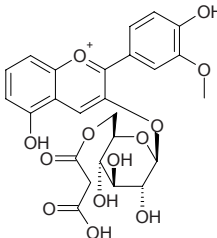
Peonidin $C_{16}H_{13}O_6^+$ (301.28). **Pharm:** Anti-inflammatory; prevents brittle rupture of blood capillary. **Source:** XI LA GANG LIU *Periploca graeca*, XIN YI *Magnolia liliflora*, *Rhododendron* spp., *Corydalis* spp. **Ref:** 6, 658, 1521.

**16901** Peonidin-3-glucoside

Oxycoccicyanin [6906-39-4] $C_{22}H_{23}O_{11}^+$ (463.42). Dark brown needles +2H₂O, (as chloride). **Source:** AO TOU XIAN *Amaranthus lividus*, PU⁽²⁾ TAO *Vitis vinifera*, MU JIN HUA *Hibiscus syriacus*, occurs in many plants. **Ref:** 660, 1521.

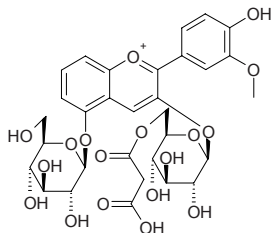
**16902** Peonidin-3-*O*-(6''-*O*-malonyl- β -glucopyranoside)

$C_{25}H_{25}O_{13}^+$ (533.47). **Source:** YANG CONG *Allium cepa*. **Ref:** 3497.

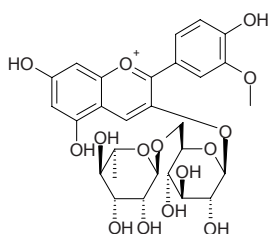


16903 Peonidin-3-O-(6''-O-malonyl-β-glucopyranoside)-5-O-β-glucopyranoside

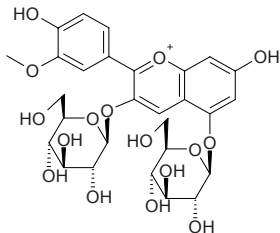
$C_{31}H_{35}O_{18}^+$ (695.61). **Source:** YANG CONG *Allium cepa*. **Ref:** 3497.

**16904 Peonidin-3-O-(6''-O-α-rhamnopyranosyl-β-glucopyranoside)**

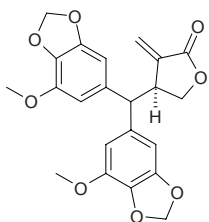
$C_{28}H_{33}O_{15}^+$ (609.57). **Source:** *Dracula chimaera*, *Dracula cordobae*. **Ref:** 3406.

**16905 Peonin**

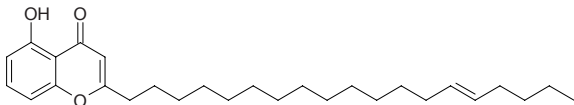
Peonin; Peonidin-3,5-diglucoside [132-37-6] $C_{28}H_{33}O_{16}^+$ (625.57). Reddish-violet crystals +1H₂O (HCl aq., as chloride), mp 165–167°C (dec, CHCl₃), [α]_D = +53.4°, chloride). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], DU JUAN HUA *Rhododendron simsii*, XIA KU CAO *Prunella vulgaris*, *Paeonia* spp. **Ref:** 2, 1521, 1239, 3163, 3164.

**16906 Peperomin E**

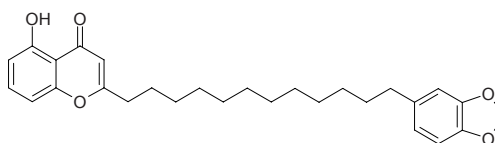
$C_{22}H_{20}O_8$ (412.40). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell line, 50μmol/L, cell growth InRt = 5%; NUGC-3 cell line, 50μmol/L, cell growth InRt = 1%)^[3401]. **Source:** *Peperomia sui*. **Ref:** 3401.

**16907 Peperovulcanone A**

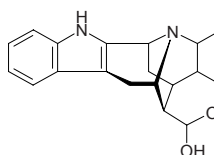
$C_{28}H_{42}O_3$ (426.65). Yellow oil. **Source:** HUO SHAN YAN CAO HU JIAO *Peperomia vulcanica*. **Ref:** 2017.

**16908 Peperovulcanone B**

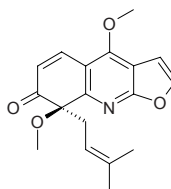
$C_{28}H_{34}O_5$ (450.58). White Crystals (hexane), mp 85–86°C. **Source:** HUO SHAN YAN CAO HU JIAO *Peperomia vulcanica*. **Ref:** 2017.

**16909 Peraksine**

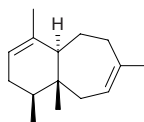
[15527-80-7] $C_{19}H_{22}N_2O_2$ (310.40). mp 196–198°C. **Source:** PI LI LUO FU MU *Rauwolfia perakensis*, CUI TU LUO FU MU *Rauwolfia vomitoria*. **Ref:** 6, 660.

**16910 Perfamine**

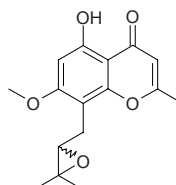
[59557-95-8] $C_{18}H_{19}NO_4$ (313.36). Prisms (hexane–Me₂CO), mp 175–178°C, 164–165°C, [α]_{546nm}^{26.5} = –20° (*c* = 1.00, CHCl₃), [α]_D = +53.4°. **Source:** DA YE YUN XIANG CAO *Haplophyllum perforatum*, *Haplophyllum glabrinum*. **Ref:** 1521.

**16911 (–)-Perfora-1,7-diene**

$C_{15}H_{24}$ (204.36). Colorless oil. **Source:** BO BAN HE YE TAI *Scapania undulata* (essential oil). **Ref:** 3752.

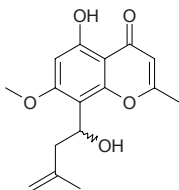
**16912 Perforamone A**

5-Hydroxy-7-methoxy-2-methyl-8-(2,3-epoxy-3-methylbutyl)chromone $C_{16}H_{18}O_5$ (290.32). Colorless needles, mp 119–120°C, [α]_D²⁵ = 19.4° (*c* = 0.07, MeOH). **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, IC₅₀ > 20μg/mL); antibacterial (*Mycobacterium tuberculosis*, MIC = 50μg/mL). **Source:** NIU JIN GUO *Harrisonia perforata* (branche: yield = 0.043%). **Ref:** 25.

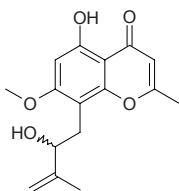


16913 Perforamone B

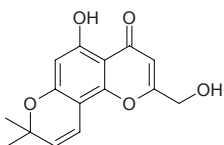
5-Hydroxy-7-methoxy-2-methyl-8-(1-hydroxy-3-methyl-3-butenyl)chromone
 $C_{16}H_{18}O_5$ (290.32). Colorless needles, evaporation, mp 162~163°C, $[\alpha]_D^{25} = 18.2^\circ$ ($c = 0.12$, MeOH). **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, $IC_{50} = 10.5\mu\text{g/mL}$); antibacterial (*Mycobacterium tuberculosis*, $MIC = 100\mu\text{g/mL}$). **Source:** NIU JIN GUO *Harrisonia perforata* (branche: yield = 0.013%). **Ref:** 25.

**16914 Perforamone C**

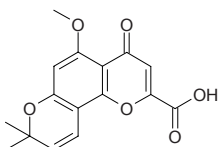
5-Hydroxy-7-methoxy-2-methyl-8-(2-hydroxy-3-methyl-3-butenyl)chromone
 $C_{16}H_{18}O_5$ (290.32). Pale yellow rhombs, mp 104~105°C, $[\alpha]_D^{25} = 70.6^\circ$ ($c = 0.10$, MeOH). **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, $IC_{50} > 20\mu\text{g/mL}$); antibacterial (*Mycobacterium tuberculosis*, $MIC > 200\mu\text{g/mL}$). **Source:** NIU JIN GUO *Harrisonia perforata* (branche: yield = 0.025%). **Ref:** 25.

**16915 Perforamone D**

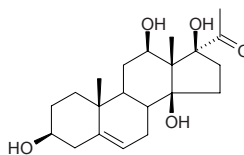
2-Hydroxymethylalloptaeroxilin $C_{15}H_{14}O_5$ (274.28). Pale yellow rhombs, mp 139~140°C. **Pharm:** Antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, $IC_{50} > 20\mu\text{g/mL}$); antibacterial (*Mycobacterium tuberculosis*, $MIC = 200\mu\text{g/mL}$). **Source:** NIU JIN GUO *Harrisonia perforata* (branche: yield = 0.0005%). **Ref:** 25.

**16916 Perforatic acid**

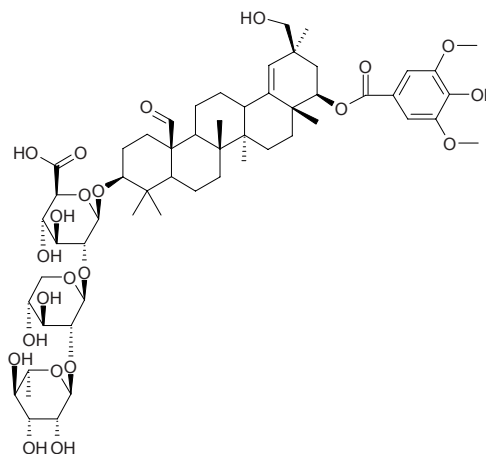
[94736-67-1] $C_{16}H_{14}O_6$ (302.29). Yellow fine needles (MeOH), mp 246.5~248°C (dec). **Pharm:** Antineoplastic (mus, 3H-TDR *in vitro* doped ascites liver cancer cell, $InRt = 91.2\%$). **Source:** NIU JIN GUO *Harrisonia perforata*. **Ref:** 3694.

**16917 Pergularin**

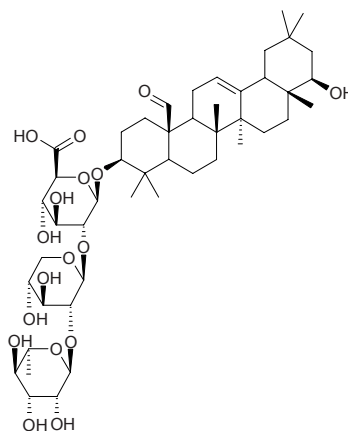
$C_{21}H_{32}O_5$ (364.49). mp 220~230°C. **Source:** FU SHOU CAO *Adonis amurensis*, LUO MO *Metaplexis japonica*. **Ref:** 6.

**16918 Periandradulcin A**

[135545-88-9] $C_{56}H_{82}O_{22}$ (1107.26). Maple amorphous powder, mp 220~225°C (dec), $[\alpha]_D^{25} = -55.0^\circ$ ($c = 0.2$, MeOH). **Pharm:** Phosphodiesterase inhibitor (phosphodiesterase in ox heart, $ID_{50} = 0.033\mu\text{mol/L}$). **Source:** TIAN ZHOU WEI JIA XIONG RUI *Periandra dulcis*. **Ref:** 3695, 3696.

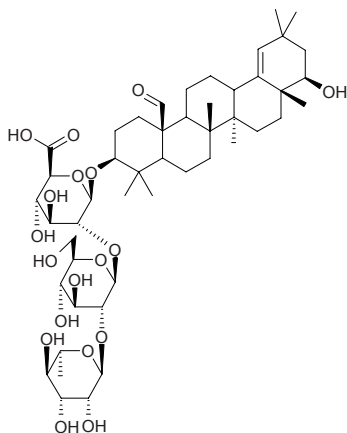
**16919 Periandradulcin B**

[135545-89-0] $C_{47}H_{74}O_{17}$ (911.10). White amorphous powder, mp 225~227°C (dec), $[\alpha]_D^{25} = +12.0^\circ$ ($c = 1.0$, MeOH). **Pharm:** Phosphodiesterase inhibitor (phosphodiesterase in ox heart, $ID_{50} = 7.6\mu\text{mol/L}$). **Source:** TIAN ZHOU WEI JIA XIONG RUI *Periandra dulcis*. **Ref:** 3695.

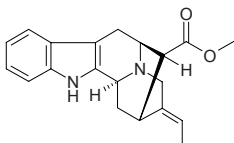


16920 Periandradulcin C

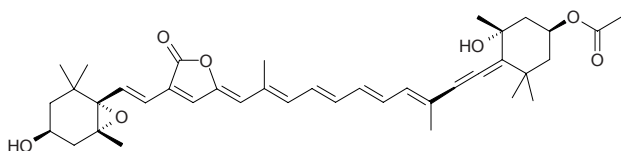
[135545-90-3] C₄₈H₇₆O₁₈ (941.13). Maple powder, mp 205~210°C (dec), [α]_D²⁵ = -17.4° (*c* = 0.5, pyridine). **Pharm:** Phosphodiesterase inhibitor (phosphodiesterase in ox heart, ID₅₀ = 7.7 μmol/L). **Source:** TIAN ZHOU WEI JIA XIONG RUI *Periandra dulcis*. **Ref:** 3695.

**16921 Pericyclivine**

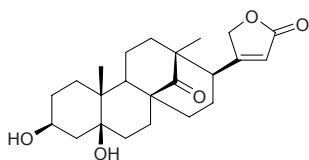
[975-77-9] C₂₀H₂₂N₂O₂ (322.41). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 1521.

**16922 Peridinin**

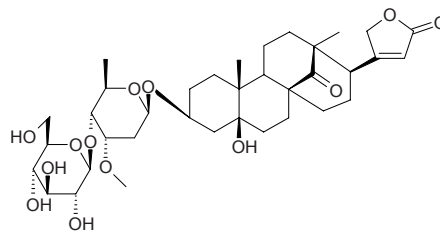
C₃₉H₅₀O₇ (630.83). **Pharm:** Anti-carcinogenic (inhibits 50nmol/L 12-*O*-tetradecanoyl phorbol 13-acetate (TPA)-stimulated ³²P-incorporation into the phospholipids of HeLa cells, 25 μg/mL, InRt = 28.2%). **Source:** ER JIAO DUO JIA ZAO *Peridinium bipes*. **Ref:** 4256.

**16923 Periforgenin A**

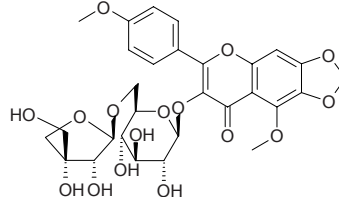
[130774-24-2] C₂₃H₃₂O₅ (388.51). mp 230~231°C, [α]_D = +79.8°. **Source:** XI NAN GANG LIU *Periploca forrestii*. **Ref:** 2498.

**16924 Periforoside I**

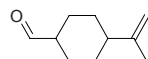
Periforoside 3-*O*-(2,6-dideoxy-4-*O*- β -*D*-glucopyranosidyl)-3-*O*-methyl- β -*D*-ribo-hexopyranoside [130812-53-2] C₃₆H₅₄O₁₃ (694.82). mp 240~241°C, [α]_D = +90.38°. **Source:** XI NAN GANG LIU *Periploca forrestii*. **Ref:** 2498.

**16925 Periginatorine**

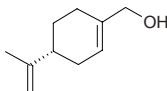
C₂₉H₃₂O₁₆ (636.57). Yellow crystals, mp 248~249°C, [α]_D²⁹ = -97° (*c* = 0.39, MeOH). **Source:** NI A LUO *Polygonum periginatoris* (root). **Ref:** 4554.

**16926 Perilal**

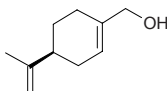
C₁₀H₁₆O (152.24). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2.

**16927 (R)-Perilla alcohol**

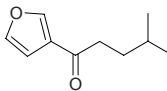
p-(*R*)-Mentha-1,8-dien-7-ol [57717-97-2] C₁₀H₁₆O (152.24). [α]_D = +73°. **Source:** GE LU ZI *Carum carvi*, *Cymbopogon polyneuros*. **Ref:** 1521.

**16928 (S)-Perilla alcohol**

p-(*S*)-Mentha-1,8-dien-7-ol [18457-55-1] C₁₀H₁₆O (152.24). Oil, bp 244.5°C, bp 118~121°C/11mmHg. **Source:** DING XIANG LUO LE *Ocimum gratissimum*. **Ref:** 1521.

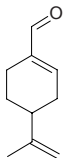
**16929 Perilla ketone**

Isoamyl-3-furyl ketone [553-84-4] C₁₀H₁₄O₂ (166.22). mp 149.5°C. **Pharm:** Cytotoxic; used in research on γ -radiation (strongly penetrates goat lung); promotes impetus of small intestine (stimulates mus circular muscle); LD₅₀ (mus, orl) = 78.9mg/kg, (rat, ip) = 5.0mg/kg, (dog, ip) = 106mg/kg, (pig, ip) \geq 158mg/kg. **Source:** BAI SU ZI *Perilla frutescens*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], ZI SU GENG *Perilla frutescens* var. *arguta*. **Ref:** 2, 660, 900.

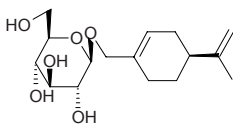


16930 Perillaldehyde

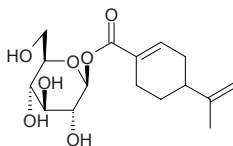
Perillylaldehyde [2111-75-3] $C_{10}H_{14}O$ (150.22). bp (+) 234~236°C/743mmHg, (-) 235~237°C/750mmHg. Pharm: Sweetener. Source: BAI SU ZI *Perilla frutescens*, HUI HUI SU *Perilla frutescens* var. *crispa*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JU PI *Citrus reticulata*, OU ZE QIN *Sium latifolium*, RUI ZI SU *Perilla arguta*, ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 6, 11, 658, 660.

**16931 Perilloside A**

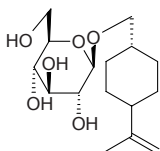
[141206-20-4] $C_{16}H_{26}O_6$ (314.38). Needles (MeOH-H₂O), mp 114.5~115°C, $[\alpha]_D^{22} = -92.7^\circ$ ($c = 0.77$, MeOH). Pharm: Aldose reductase inhibitor (rat eye lens, 0.1mmol/L, InRt = 54.5%, hmn recombinant cells); prevention and cure of diabetes syndrome (retinopathy, cataract, nervous system diseases); hypoglycemic (rat, injection into stomach 10mg/kg and cane sugar 1g/kg, markedly inhibits increase of level of blood sugar); sugar hydrolase inhibitor (inhibits digestion of sugar and its absorption in small intestine). Source: BAI SU YE *Perilla frutescens*, QING ZI SU *Perilla frutescens* f. *viridis*. Ref: 3165, 3166, 3167, 3168.

**16932 Perilloside B**

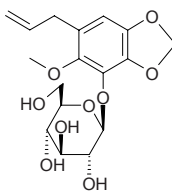
$C_{16}H_{24}O_7$ (328.37). Source: ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 3169.

**16933 Perilloside C**

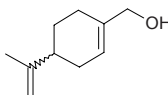
[146763-94-2] $C_{16}H_{28}O_6$ (316.40). Needles (MeOH-H₂O), mp 125.5~126.5°C, $[\alpha]_D^{22} = -32.3^\circ$ ($c = 0.6$, MeOH). Pharm: Aldose reductase inhibitor (rat eye lens, 0.1mmol/L, InRt = 46.4%, hmn recombinant cells); prevention and cure of diabetes syndrome (retinopathy, cataract, nervous system diseases). Source: QING ZI SU *Perilla frutescens* f. *viridis*. Ref: 3170, 3169, 3168, 3167.

**16934 Perilloside E**

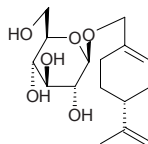
[149380-62-1] $C_{17}H_{22}O_9$ (370.36). Needles, mp 164~165°C, $[\alpha]_D = -22.8^\circ$ ($c = 0.3$, MeOH). Pharm: Antifungal. Source: BAI SU YE *Perilla frutescens*. Ref: 3171.

**16935 Perillyl alcohol**

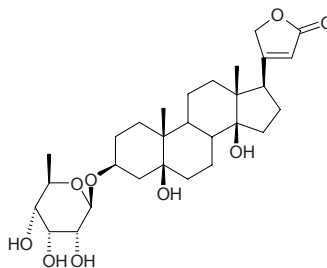
Perilla alcohol [536-59-4] $C_{10}H_{16}O$ (152.24). bp (+) 228~229°C/755mmHg, (-) 244.5°C. Pharm: Antineoplastic (treatment of pancreatic duct cancer, inhibits skin cancer and mastocytosis)^[2622]; cytotoxic (rat, liver cancer cell, inhibits growth of cells)^[2622]. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 6, 11, 660, 2622.

**16936 Perillylglucopyranoside**

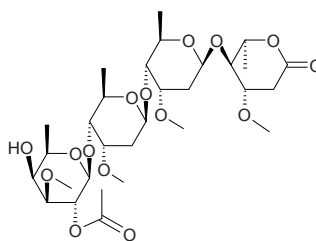
$C_{16}H_{26}O_6$ (314.38). Source: ZI SU YE *Perilla frutescens* var. *arguta*. Ref: 3172.

**16937 Peripalloside**

$C_{29}H_{44}O_9$ (536.67). Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. Ref: 3173.

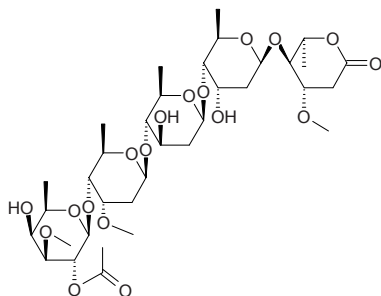
**16938 Periplocae oligosaccharide C₁**

$C_{30}H_{50}O_{15}$ (650.72). Source: XIANG JIA PI *Periploca sepium*. Ref: 3174.

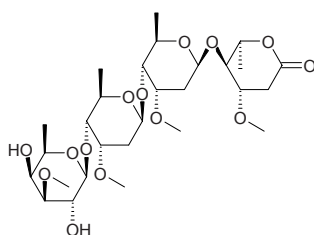


16939 Periplocae oligosaccharide D₂

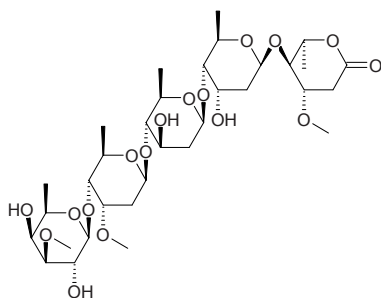
$C_{35}H_{58}O_{18}$ (766.84). Source: XIANG JIA PI *Periploca sepium*. Ref: 3174.

**16940 Periplocae oligosaccharide F₁**

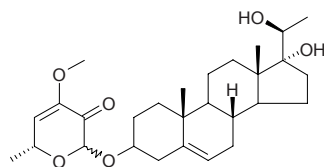
$C_{28}H_{48}O_{14}$ (608.69). Source: XIANG JIA PI *Periploca sepium*. Ref: 3174.

**16941 Periplocae oligosaccharide F₂**

$C_{33}H_{56}O_{17}$ (724.80). Source: XIANG JIA PI *Periploca sepium*. Ref: 3174.

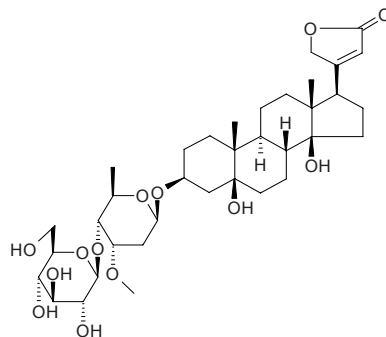
**16942 Periplocagenin**

2-[(17,20-Dihydroxypregn-5-en-3-yl)oxy]-4-methoxy-6-methyl-2H-pyran-3(6H)-one [112899-63-5] $C_{28}H_{42}O_6$ (474.64). Needles ($C_6H_6-CHCl_3$), mp 203–206°C, $[\alpha]_D^{20} = -51.2^\circ$ ($c = 0.3$, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 2498, 3175.

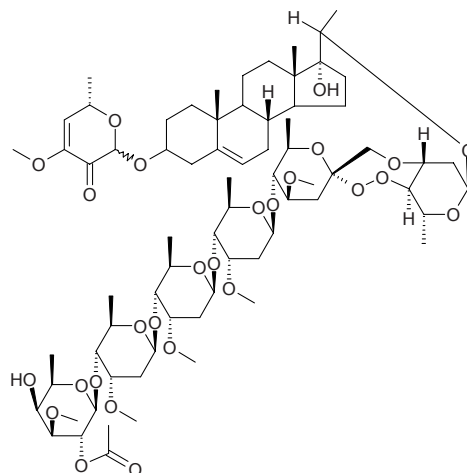
**16943 Periplocin**

Periplocoside [13137-64-9] $C_{36}H_{56}O_{13}$ (696.84). mp 209°C (dec), 232–233°C.

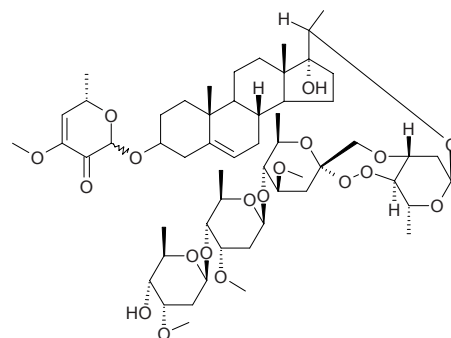
Pharm: Radioprotector (mus, microwave damage model, biotic prolonged rate = 146%); cardiac glucoside (similar action with digitalis). Source: KANG PI DU MAO XUAN HUA *Strophanthus kombe*, XI LA GANG LIU *Periploca graeca*, XIANG JIA PI *Periploca sepium*. Ref: 6, 658.

**16944 Periplocoside A**

[114828-46-5] $C_{72}H_{114}O_{27}$ (1411.70). Powder, mp 174–176°C, $[\alpha]_D^{20} = -1.2^\circ$ ($c = 1.4$, $CHCl_3$). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

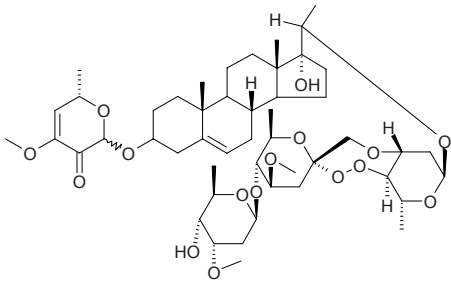
**16945 Periplocoside B**

[115742-49-2] $C_{56}H_{88}O_{19}$ (1065.31). Powder, mp 136–138°C, $[\alpha]_D^{20} = +1.9^\circ$ ($c = 0.2$, $CHCl_3$). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

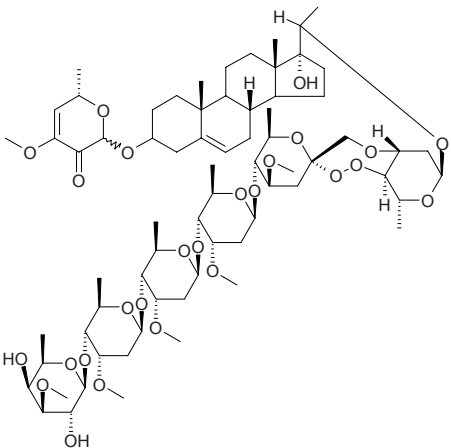


16946 Periplocoside C

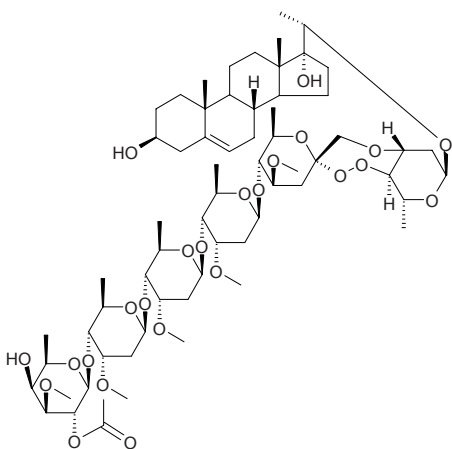
[114828-47-6] C₄₉H₇₆O₁₆ (921.14). Powder, mp 180~182°C, [α]_D²⁰ = -8.4° (*c* = 0.3, CHCl₃). [Source](#): XIANG JIA PI *Periploca sepium*. [Ref](#): 3175.

**16947 Periplocoside D**

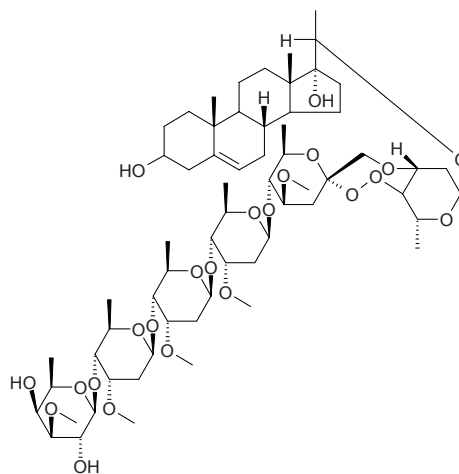
[116709-67-2] C₇₀H₁₁₂O₂₆ (1369.66). Powder, mp 191~193°C, [α]_D = -3.08° (*c* = 0.26, CHCl₃). [Source](#): XIANG JIA PI *Periploca sepium*. [Ref](#): 3175.

**16948 Periplocoside E**

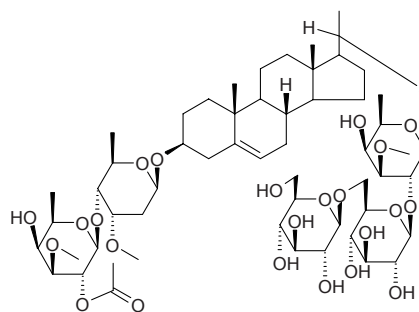
Pregn-5-ene-3,17,20-triol 20-*O*-[2-*O*-acetyl- β -*D*-digitalopyranosyl-(1→4)- β -*D*-cymaropyranosyl-(1→4)- β -*D*-cymaropyranosyl-(1→4)- β -*D*-cymaropyranosyl-(1→5)-3,7-dideoxy-4-*O*-methyl- α -*D*-gluco-2-heptulopyranosyl-(2→4)-dioxo-(1→3)- β -*D*-canaropyranoside] [116709-65-0] C₆₅H₁₀₆O₂₄ (1271.56). Powder, mp 183~189°C, [α]_D = -7.5° (*c* = 0.08, CHCl₃). [Source](#): XIANG JIA PI *Periploca sepium*, XI NAN GANG LIU *Periploca forrestii*. [Ref](#): 2498, 3175, 3176.

**16949 Periplocoside F**

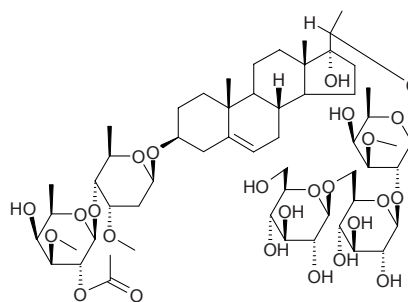
[119902-17-9] C₆₃H₁₀₄O₂₃ (1229.52). Powder, mp 195~198°C, [α]_D = +8.1° (*c* = 0.07, MeOH). [Source](#): XIANG JIA PI *Periploca sepium*. [Ref](#): 3175.

**16950 Periplocoside H₁**

C₅₆H₉₂O₂₄ (1149.34). [Source](#): XIANG JIA PI *Periploca sepium*. [Ref](#): 3353.

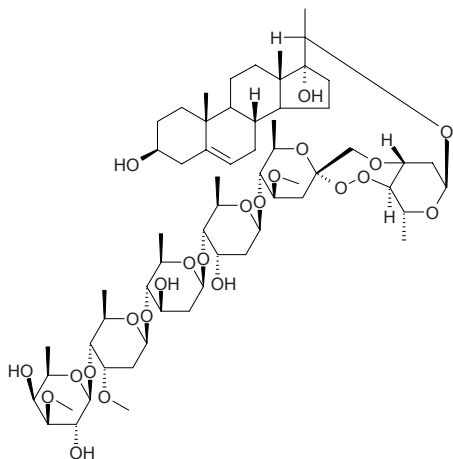
**16951 Periplocoside H₂**

C₅₆H₉₂O₂₅ (1165.34). [Source](#): XIANG JIA PI *Periploca sepium*. [Ref](#): 3177.

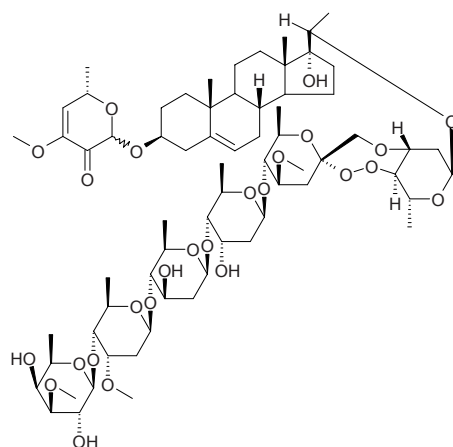


16952 Periplocoside J

[119902-15-7] C₆₁H₁₀₀O₂₃ (1201.46). Powder, mp 178~181°C, [α]_D²⁰ = +24.13° (c = 0.12, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

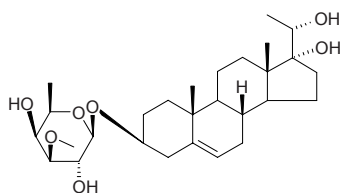
**16953 Periplocoside K**

C₆₈H₁₀₈O₂₆ (1341.60). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

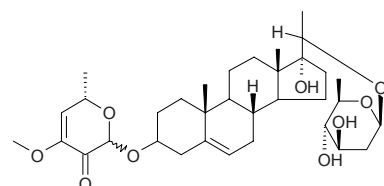
**16954 Periplocoside L**

C₂₈H₄₆O₇ (494.67). Needles, mp 238~240°C, [α]_D = -53.3° (c = 0.06, MeOH).

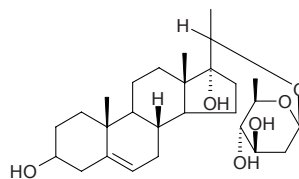
Source: XIANG JIA PI *Periploca sepium*. Ref: 2498, 3175.

**16955 Periplocoside M**

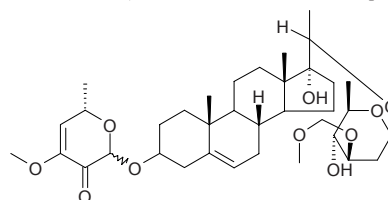
[116782-73-1] C₃₄H₅₂O₉ (604.79). Needles, mp 195~197°C, [α]_D = -89.91° (c = 0.23, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

**16956 Periplocoside N**

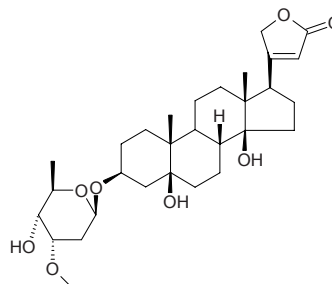
C₂₇H₄₄O₆ (464.65). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

**16957 Periplocoside O**

[116709-67-2] C₃₆H₅₆O₁₀ (648.84). Powder, mp 103~106°C, [α]_D²⁰ = -84.0° (c = 0.05, MeOH). Source: XIANG JIA PI *Periploca sepium*. Ref: 3175.

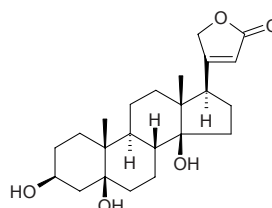
**16958 Periplocyamarin**

[32476-67-8] C₃₀H₄₆O₈ (534.70). Crystals (MeOH aq.), mp 145°C, [α]_D²⁰ = +29° (MeOH), mp 212°C (MeOH); mp 205~208°C, [α]_D = +25.25°. Pharm: Toxic; LD₅₀ (cat) = 0.154mg/kg. Source: XIANG JIA PI *Periploca sepium*, *Castilla elastica*, *Strophanthus* spp., *Pentopetia* spp. Ref: 1521, 2498.

**16959 Periplogenin**

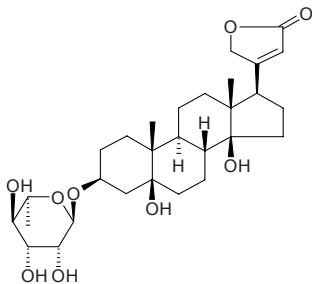
[514-39-6] C₂₃H₃₄O₅ (390.52). Crystals (MeOH aq.), mp 238°C (sinters at 140°C), [α]_D^{31.5} = +27° (c = 0.667, CHCl₃); mp 237~238°C, [α]_D = +29.5°.

Pharm: Toxic; LD₅₀ (cat) = 0.72mg/kg. Source: JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*], PEN TUO PO TI CAO *Pentopetia androsaernifolia*, QING SHE TENG *Periploca calophylla*, XIANG JIA PI *Periploca sepium*, XI LA GANG LIU *Periploca graeca*, XI NAN GANG LIU *Periploca forrestii*, *Strophanthus preussii*, *Castilla elastica*. Ref: 1521, 2498.

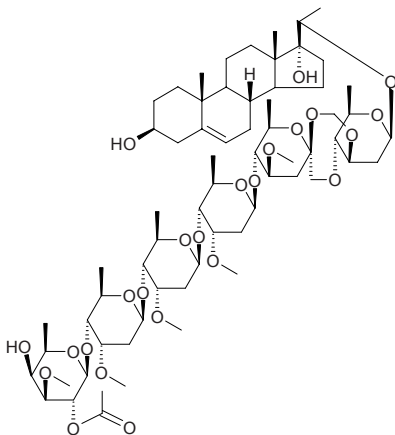


16960 Periplogenin-3-O- α -L-rhamnopyranoside

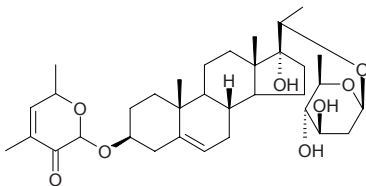
$C_{29}H_{44}O_9$ (536.67). mp 170~174°C, 219~226°C. Source: LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. Ref: 6.

**16961 Periploside A**

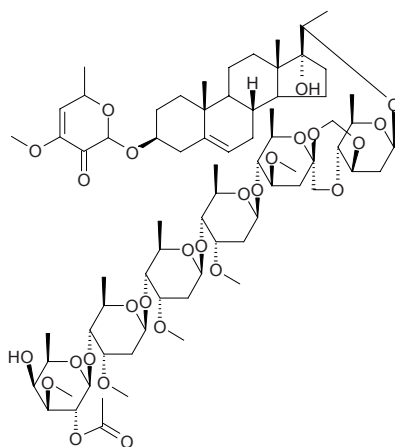
$C_{66}H_{108}O_{24}$ (1285.58). Source: XIANG JIA PI *Periploca sepium*. Ref: 3178.

**16962 Periploside B**

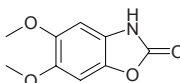
$C_{34}H_{52}O_8$ (588.79). Source: XIANG JIA PI *Periploca sepium*. Ref: 3178.

**16963 Periploside C**

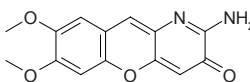
$C_{73}H_{116}O_{27}$ (1425.72). Source: XIANG JIA PI *Periploca sepium*. Ref: 3178.

**16964 Peristrophamide**

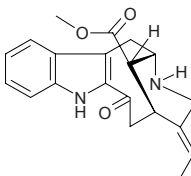
$C_9H_9NO_4$ (195.18). Reddish thin, clustered crystals; mp 221~222°C, easily soluble in ethanol, ketone, chloroform; insoluble in petroleum ether. Source: GUAN YIN CAO *Peristrophe roxburghiana*. Ref: 681.

**16965 Peristrophine**

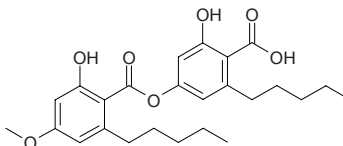
$C_{14}H_{12}N_2O_4$ (272.26). Dark red crystals, mp 250°C (dec); easy soluble in MeOH, EtOH, Me₂CO, CHCl₃; soluble in EtOAc; insoluble in petroleum ether. Source: GUAN YIN CAO *Peristrophe roxburghiana*. Ref: 681.

**16966 Perivine**

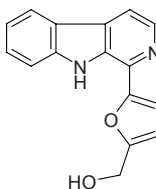
[2673-40-7] $C_{20}H_{22}N_2O_3$ (338.41). mp 218~221°C (dec). Pharm: Analgesic; antibacterial (1.5%, effective in ratio of 8/30 hmn pathogenic bacteria); antihypertensive; antipyretic; antispasmodic; cytotoxic (mus, P₃₈₈ *in vitro*, ED₅₀ = 20μg/mL, KB *in vitro*, ED₅₀ = 70μg/mL); LD₅₀ (mus, orl) = 145.9mg/kg, (mus, sc) = 133.4mg/kg, (mus, iv) = 89.6mg/kg. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], HE ER TI SHAN MA CHA *Tabernaemontana holstii*, YUE HAN SI TONG SHAN MA CHA *Tabernaemontana johnstonii*, ZHI ZHI SHAN MA CHA *Tabernaemontana chartacea*. Ref: 4, 5, 658.

**16967 Perlatolic acid**

[529-47-5] $C_{25}H_{32}O_7$ (444.53). mp 108°C. Source: TAI BAI HUA *Cladonia stellaris* [Syn. *Cladonia alpestris*]. Ref: 6.

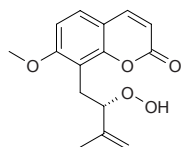
**16968 Perlolryrine**

[29700-20-7] $C_{16}H_{12}N_2O_2$ (264.29). mp 165°C. Source: CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.00019%)^[5508], DANG SHEN *Codonopsis pilosula* (dried root: content = 0.000028%)^[5508], SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: content = 0.000007%)^[5508], YUAN ZHI *Polygala tenuifolia*. Ref: 538, 5508.

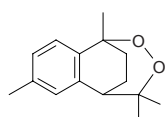


16969 Peroxyauraptenol

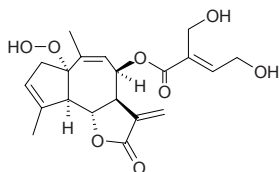
[109741-39-1] C₁₅H₁₆O₅ (276.29). Prisms, mp 114~116°C, [α]_D = +3.53° (CHCl₃). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 1272, 3179.

**16970 10,12-Peroxycalamenene**

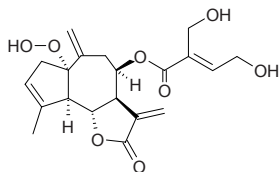
[168207-85-0] C₁₅H₂₀O₂ (232.33). Needles (CH₂Cl₂:hexane = 1:1), mp 67~68.5°C (cold hexane), [α]_D²⁰ = -67.22° (*c* = 0.2765, CHCl₃). Pharm: Antimalarial (*Plasmodium falciparum*, IC₅₀ = 2.33 μmol/L). Source: XIANG FU *Cyperus rotundus*. Ref: 1089.

**16971 Peroxyeupahakonin A**

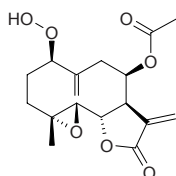
[82425-23-8] C₂₀H₂₄O₈ (392.41). Amorphous, mp 143~146°C, [α]_D²⁶ = -165° (*c* = 0.21, MeOH). Source: HUA ZE LAN *Eupatorium chinense*. Ref: 3180.

**16972 Peroxyeupahakonin B**

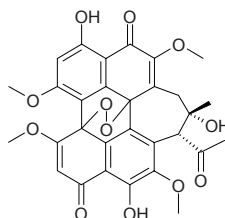
[82425-22-7] C₂₀H₂₄O₈ (392.41). Crystals (Me₂CO), mp 147~148°C, [α]_D²⁶ = +35.4° (*c* = 0.18, MeOH). Source: HUA ZE LAN *Eupatorium chinense*. Ref: 3180.

**16973 1-Peroxyferolide**

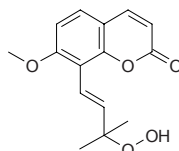
[61228-73-7] C₁₇H₂₂O₇ (338.36). Pharm: Insect antifeedant. Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*. Ref: 658.

**16974 Peroxyhypocrellin**

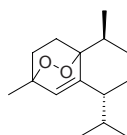
C₃₀H₂₆O₁₂ (578.53). Source: ZHU HONG JUN *Hypocrella bambusae*. Ref: 3181.

**16975 Peroxymurraol**

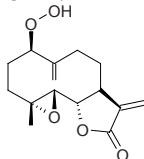
[121994-13-6] C₁₅H₁₆O₅ (276.29). Source: XIAO YE JIU LI XIANG *Murraya paniculata* var. *exotica*. Ref: 3134.

**16976 1,4-Peroxy-5-murolene**

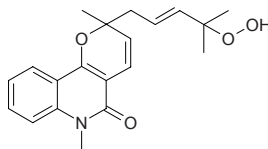
C₁₅H₂₆O₂ (236.36). Amorphous, [α]_D = +41.9° (*c* = 2.30). Source: BO BAN HE YE TAI *Scapania undulata*. Ref: 5132.

**16977 Peroxyparthenolide**

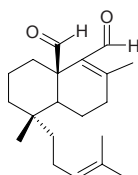
[64845-91-6] C₁₅H₂₀O₅ (280.32). Crystals (Me₂CO-Et₂O), mp 190°C (dec), [α]_D²⁵ = +27° (*c* = 0.21, Me₂CO). Source: HE HUA YU LAN *Magnolia grandiflora*. Ref: 3182.

**16978 Peroxysimulenoline**

C₂₀H₂₃NO₄ (341.41). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

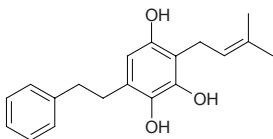
**16979 Perrottetianal**

C₂₀H₃₀O₂ (302.46). Source: SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 3932.

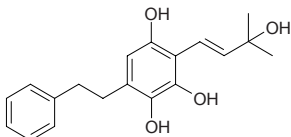


16980 Perrottetin A

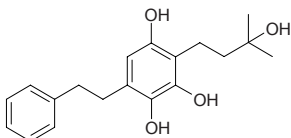
[85526-61-0] C₁₉H₂₂O₃ (298.39). Crystals, mp 99~100°C. Source: NING BIAN E TAI *Radula perrottetii*. Ref: 3697.

**16981 Perrottetin B**

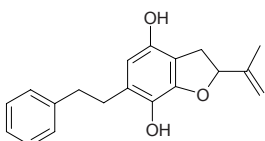
[85526-63-2] C₁₉H₂₂O₄ (314.38). Gum. Source: NING BIAN E TAI *Radula perrottetii*. Ref: 3697.

**16982 Perrottetin C**

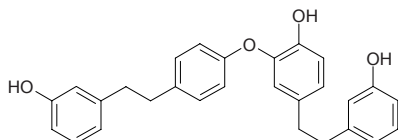
[85526-65-4] C₁₉H₂₄O₄ (316.40). Gum. Source: NING BIAN E TAI *Radula perrottetii*. Ref: 3697.

**16983 Perrottetin D**

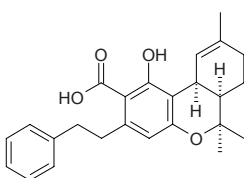
[133462-36-9] C₁₉H₂₀O₃ (296.37). Pharm: Antioxidant (lipid peroxidation inhibitor); 5-lipoxygenase inhibitor (IC₅₀ = 0.66 μmol/L); cyclooxygenase inhibitor. Source: NING BIAN E TAI *Radula perrottetii*. Ref: 3697, 3698, 3678.

**16984 Perrottetin E**

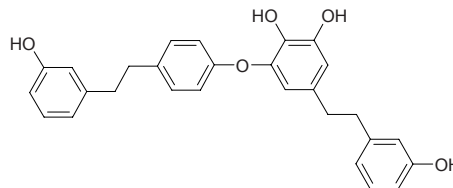
[89911-97-7] C₂₈H₂₆O₄ (426.52). Oil. Pharm: Cytotoxic (KB cells). Source: DI SUO LUO *Marchantia polymorpha*, NING BIAN E TAI *Radula perrottetii*, *Pollia endiviifolia*. Ref: 3183, 3184, 3185.

**16985 Perrottetinenic acid**

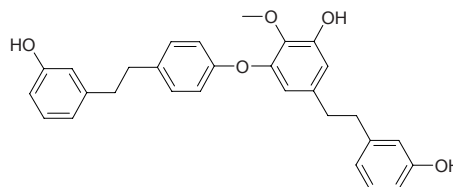
C₂₅H₂₈O₄ (392.50). Oil, [α]_D²² = -165.8° (c = 0.35, CHCl₃). Source: BIAN YUAN BIAN E TAI *Radula marginata*. Ref: 4236.

**16986 Perrottetin F**

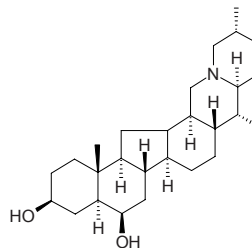
[89911-98-8] C₂₈H₂₆O₅ (442.52). Source: NING BIAN E TAI *Radula perrottetii*. Ref: 3697.

**16987 Perrottetin G**

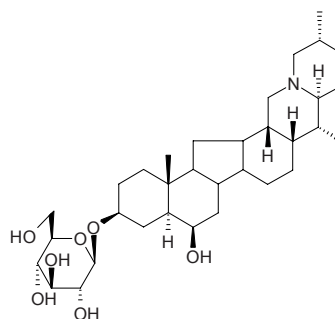
C₂₉H₂₈O₅ (456.54). Source: NING BIAN E TAI *Radula perrottetii*. Ref: 1521, 3697.

**16988 17αH-Persicanidine A**

C₂₇H₄₅NO₂ (415.67). Crystals (EtOH), mp 228~230°C (dec), [α]_D²³ = -9.7° (c = 0.5, CHCl₃). Pharm: AChE inhibitor (IC₅₀ = (352.2±4.0) μmol/L, control Eserine, IC₅₀ = (0.41±0.01) μmol/L)^[4217]; BChE inhibitor (IC₅₀ = (4.25±0.08) μmol/L, control Eserine, IC₅₀ = (0.857±0.008) μmol/L)^[4217]. Source: XI BEI MU *Fritillaria imperialis* (bulb). Ref: 4217.

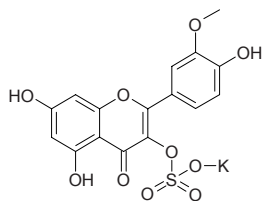
**16989 Persicanidine B-3-O-β-D-glucoside**

[144940-48-7] C₃₃H₅₅NO₇ (577.81). Amorphous powder, [α]_D²⁹ = -36.2° (c = 0.21, CHCl₃). Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 183 μmol/L). Source: TAO BEI MU *Fritillaria persica*, Ref: 1755.

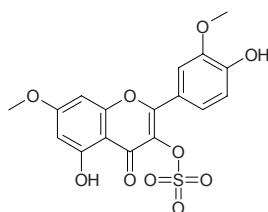


16990 Persicarin

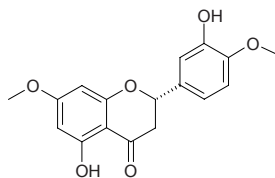
[549-31-5] C₁₆H₁₁KO₁₀S (434.43). mp 280°C. Source: QIN HUA *Oenanthe javanica*, SHUI LIAO *Polygonum hydropiper*, SHUI MA TIAO *Polygonum thunbergii*. Ref: 6.

**16991 Persicarin-7-methylether**

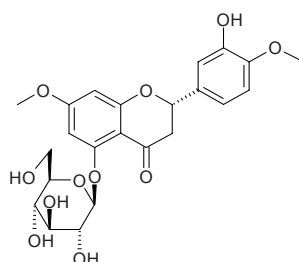
C₁₇H₁₃O₁₀S (409.35). Source: LA LIAO *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], SHUI LIAO *Polygonum hydropiper*. Ref: 660, 3186.

**16992 Persicogenin**

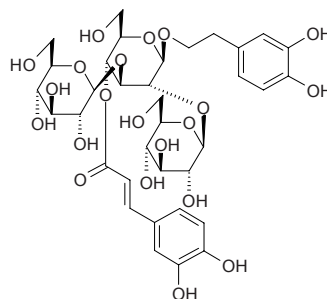
[28590-41-0] C₁₇H₁₆O₆ (316.31). Source: TAO ZHI *Prunus persica*, TAO JING BAI PI *Prunus persica*, SHAN TAO JING BAI PI *Prunus davidiana*. Ref: 6, 660.

**16993 Persicoside**

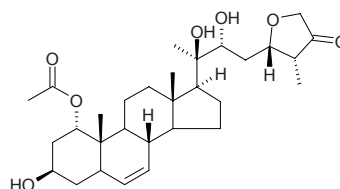
[28978-03-2] C₂₃H₂₆O₁₁ (478.46). mp 250~260°C. Source: TAO ZHI *Prunus persica*, TAO JING BAI PI *Prunus persica*, SHAN TAO JING BAI PI *Prunus davidiana*. Ref: 6, 660, 1521.

**16994 Persicoside**

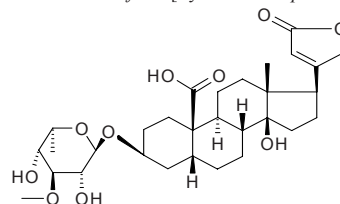
C₃₅H₄₆O₂₁ (802.74). Amorphous powder, [α]_D²³ = -63° (c = 0.17, EtOH). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 0.32mmol/L, control Vitamin E, IC₅₀ = 0.48mmol/L, BHA, IC₅₀ = 0.63mmol/L). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**16995 Perulactone**

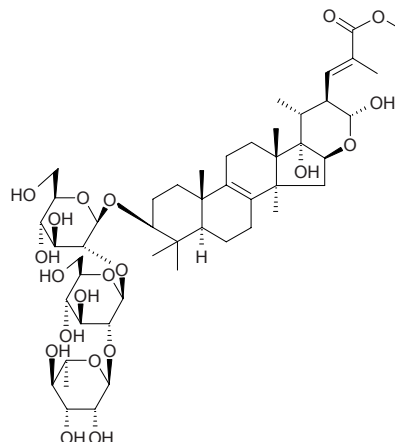
C₃₀H₄₆O₇ (518.70). Crystals (MeOH), mp 214~215°C, 239~240°C (dimorphism). Source: DENG LONG CAO *Physalis peruviana*. Ref: 3187.

**16996 Perusitin**

C₃₀H₄₄O₁₀ (564.68). mp 168~170°C. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6, 1521.

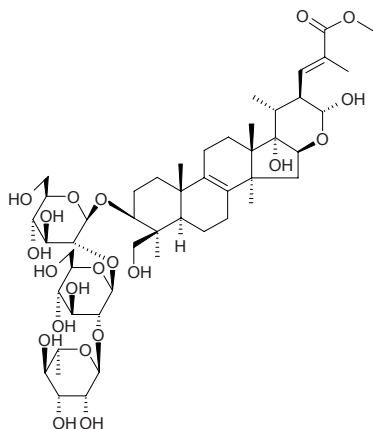
**16997 Peruvianoside A**

[145567-94-8] C₄₉H₇₈O₂₀ (987.16). White amorphous powder, [α]_D³⁰ = -23.2° (c = 0.21, MeOH). Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 235μmol/L); enhances myocardial contractility. Source: BI LU MIAN ZAO ER *Scilla peruviana*. Ref: 3609.

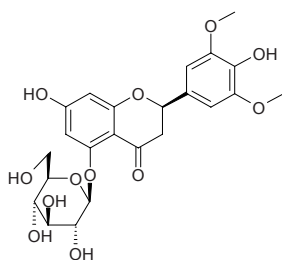


16998 Peruvianoside B

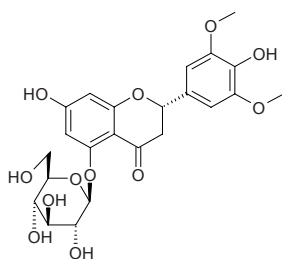
[149155-15-7] C₄₉H₇₈O₂₁ (1003.16). White amorphous powder, $[\alpha]_D^{30} = -24.0^\circ$ ($c = 0.50$, MeOH). **Pharm:** inhibits promotor of cancer (inhibits TPA-induced ³²P combines with phospholipid in HeLa cells, 50 μg/mL, InRt = 15.5%). **Source:** BI LU MIAN ZAO ER *Scilla peruviana*. **Ref:** 3609, 3610.

**16999 Peruvianoside I**

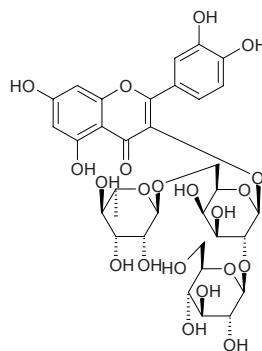
(2*R*)-5-*O*-β-*D*-Glucopyranosyl-7,4'-dihydroxy-3',5'-dimethoxyflavanone C₂₃H₂₆O₁₂ (494.46). White amorphous powder, mp 194–196°C, $[\alpha]_D^{25} = -93^\circ$ ($c = 0.02$, MeOH). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 27 μmol/L; DDDP inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 6 μmol/L; HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). **Ref:** 4187.

**17000 Peruvianoside II**

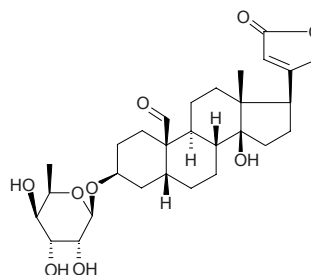
(2*S*)-5-*O*-β-*D*-Glucopyranosyl-7,4'-dihydroxy-3',5'-dimethoxyflavanone C₂₃H₂₆O₁₂ (494.46). White amorphous powder, mp 190–192°C, $[\alpha]_D^{25} = -127^\circ$ ($c = 0.02$, MeOH). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 27 μmol/L; DDDP inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 6 μmol/L; HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). **Ref:** 4187.

**17001 Peruvianoside III**

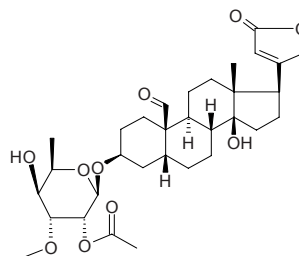
Quercetin-3-*O*-{β-*D*-glucopyranosyl-(1→2)-[α-*L*-rhamnopyranosyl-(1→6)]-β-*D*-galactopyranoside} C₃₃H₄₀O₂₁ (772.67). White amorphous powder, mp 205–207°C, $[\alpha]_D^{25} = +106^\circ$ ($c = 0.05$, MeOH). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 27 μmol/L; DDDP inhibitor, IC₅₀ > 100 μmol/L, positive control Adriamycin, IC₅₀ = 6 μmol/L; HIV-1 IN inhibitor, IC₅₀ > 100 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). **Ref:** 4187.

**17002 Peruvoside**

Encordin [1182-87-2] C₂₉H₄₂O₉ (534.65). mp 161–164°C. **Pharm:** Cardiac glucoside (cat model, cardiac bioactivity = (0.147±0.007)mg/kg). **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (seed: mean content = 0.70%^[5508]). **Ref:** 4, 658, 1521, 5508.

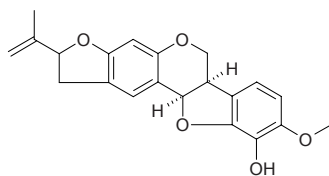
**17003 Peruvoside-2'-monoacetate**

C₃₂H₄₆O₁₀ (590.72). mp 212–217°C. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. **Ref:** 6.

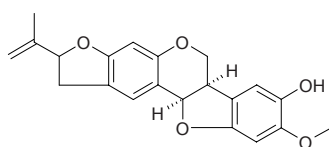


17004 Pervilline

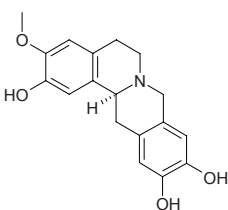
$C_{21}H_{20}O_5$ (352.39). White powder from n-hexane, mp 112~114°C, $[\alpha]_D^{20} = -192^\circ$ ($c = 0.12$, $CHCl_3$). Source: *Millettia pervilleana*. Ref: 3393.

**17005 Pervillinine**

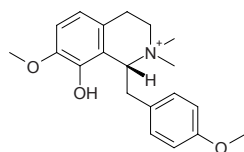
$C_{21}H_{20}O_5$ (352.39). Yellow powder from n-hexane, mp 152~154°C, $[\alpha]_D^{20} = -189^\circ$ ($c = 0.07$, $CHCl_3$). Source: *Millettia pervilleana*. Ref: 3393.

**17006 Pesseoine**

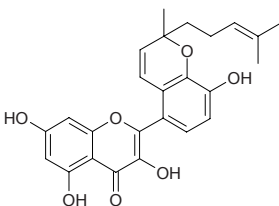
[88668-29-5] $C_{18}H_{19}NO_4$ (313.36). Amorphous substance, $[\alpha]_D^{20} = -160^\circ$ ($c = 0.2$, MeOH). Pharm: Antitrypanosomal (*Trypanosoma cruzi*, 250µg/mL, deactivation rate = 55%, control crystal violet deactivation rate = 100%). Source: CI ZHUANG FAN LI ZHI *Annona spinescens*. Ref: 3699.

**17007 Petaline**

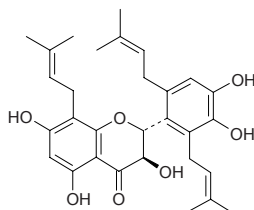
[7354-32-7] $C_{20}H_{26}NO_3^+$ (328.44). Pharm: CNS depressant (shows antiacetylcholine activity). Source: HUA BAN SHI ZU CAO *Leontice leontopetalum*. Ref: 3188.

**17008 Petalopurplenol**

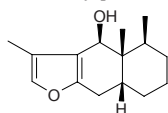
[173221-05-1] $C_{25}H_{24}O_7$ (436.47). Yellow solid, mp 92~95°C, $[\alpha]_D^{20} = -12^\circ$ ($c = 1.1$, $CHCl_3$). Pharm: Cytotoxic (BC1, $ED_{50} = 9.9\mu\text{g/mL}$, HT, $ED_{50} = 7.3\mu\text{g/mL}$, Lu1, $ED_{50} = 14.8\mu\text{g/mL}$, Mel-2, $ED_{50} = 17.1\mu\text{g/mL}$, KB, 18.9µg/mL, KB-V(+VLB), 1.0µg/mL, KB-V(-VLB), 6.7µg/mL, A-431, 11.9µg/mL, LNCaP, 14.8µg/mL, ZR-75-1, 4.1µg/mL, U373, 13.3µg/mL). Source: ZI SE BAN RUI DOU *Petalostemon purpureus*. Ref: 3612.

**17009 Petalostemumol**

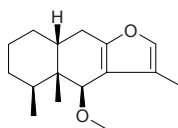
[152253-68-4] $C_{30}H_{36}O_7$ (508.62). Yellow lamellar crystals (20%Et₂O-n-hexane), mp 179~180°C, $[\alpha]_D = +6.4^\circ$ ($c = 0.032$, MeOH). Pharm: Antibacterial (gram-positive bacteria, strong activity; gram-negative bacteria, moderate activity); cytotoxic (HT $ED_{50} = 10.3\mu\text{g/mL}$; KB-V +VLB $ED_{50} = 1.2\mu\text{g/mL}$; ZR-75-1 $ED_{50} = 17.1\mu\text{g/mL}$); antineoplastic (25µg/mL, same activity with bleomycin sulfate). Source: HUANG SE BAN RUI DOU *Petalostemum purpureum*. Ref: 3611, 3612.

**17010 Petasalbin**

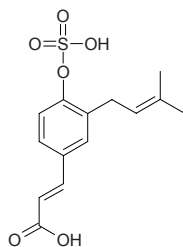
[4176-11-8] $C_{15}H_{22}O_2$ (234.34). mp 81~82°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**17011 Petasalbin methyl ether**

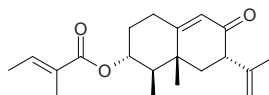
$C_{16}H_{24}O_2$ (248.37). bp 90~100°C/0.0004mmHg. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**17012 Petasiformin A**

$C_{14}H_{16}O_6S$ (312.34). White powder, mp > 300°C. Pharm: Antioxidant (DPPH scavenger, $IC_{50} = 0.21\text{mg/mL}$, control Vitamin E, $IC_{50} = 0.15\text{mg/mL}$). Source: TAI WAN FENG DOU CAI *Petasites formosanus* (leaf). Ref: 2587.

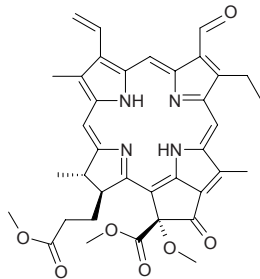
**17013 Petasin**

[26577-85-5] $C_{20}H_{28}O_3$ (316.44). mp 65~68°C. Pharm: Antispasmodic. Source: FENG DOU CAI *Petasites japonicus*, ZI FENG DOU CAI *Petasites officinalis* [Syn. *Petasites hybridu*]. Ref: 6, 658.

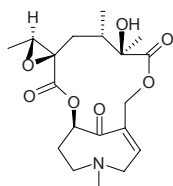


17014 Petasiphyll A

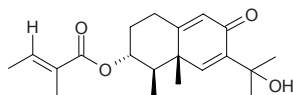
$C_{37}H_{38}N_4O_7$ (650.74). Deep green powder. Source: TAI WAN FENG DOU CAI *Petasites formosanus* (leaf). Ref: 2587.

**17015 Petasitenine**

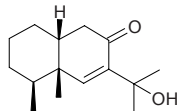
[60102-37-6] $C_{19}H_{27}NO_7$ (381.43). Source: FENG DOU CAI *Petasites japonicus*, ZI FENG DOU CAI *Petasites officinalis* [Syn. *Petasites hybridu*]. Ref: 658.

**17016 Petasitin**

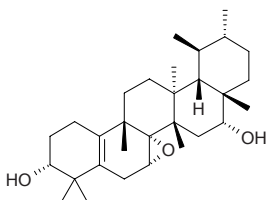
[19887-90-2] $C_{20}H_{28}O_4$ (332.44). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**17017 Petasitolone**

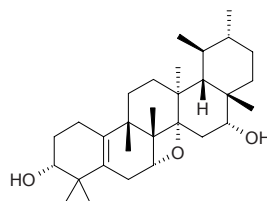
[35124-22-2] $C_{15}H_{24}O_2$ (236.36). bp 92°C/0.15mmHg. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**17018 Petatrachel A**

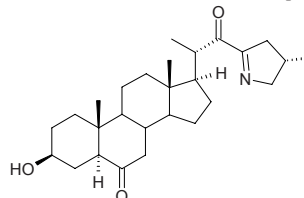
D:*B*-Friedoursane-3*a*,16*a*-dihydroxy-7*a*,8*a*-epoxy-5(10)-ene $C_{30}H_{48}O_3$ (456.72). White powder, mp 186~187°C, $[\alpha]_D^{17} = +43^\circ$ ($c = 0.24$, $CHCl_3$). Pharm: Antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 16~20mm; Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm)^[5315]. Source: MAO LIE FENG DOU CAI *Petasites tricholobus* (rhizome). Ref: 5315.

**17019 Petatrachel B**

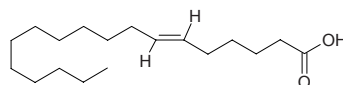
26(14→8)Abeo-*D*:*B*-friedo-ursane-3*β*,16*a*-dihydroxy-7*α*,14*α*-epoxy-5(10)-ene $C_{30}H_{48}O_3$ (456.72). White powder, mp 191~192°C, $[\alpha]_D^{22} = -20^\circ$ ($c = 0.12$, $CHCl_3$). Pharm: Antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 16~20mm; Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm)^[5315]. Source: MAO LIE FENG DOU CAI *Petasites tricholobus* (rhizome). Ref: 5315.

**17020 Petisidine**

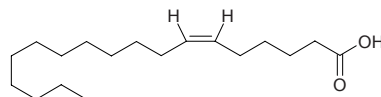
[79805-74-6] $C_{27}H_{41}NO_3$ (427.63). Amorphous powder, $[\alpha]_D^{29} = +18.4^\circ$ ($c = 0.50$, $CHCl_3$). Pharm: cAMP phosphodiesterase inhibitor (IC₅₀ = 106μmol/L). Source: TAO BEI MU *Fritillaria persica*. Ref: 1521, 3613.

**17021 Petroselaidic acid**

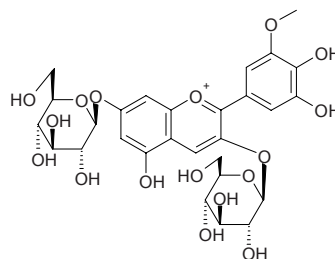
[593-40-8] $C_{18}H_{34}O_2$ (282.47). mp 54~59°C. Source: CHAI HU *Bupleurum chinense*, HAN QIN *Apium graveolens*. Ref: 6.

**17022 Petroselinic acid**

[593-39-5] $C_{18}H_{34}O_2$ (282.47). mp 33°C. Source: CHAI HU *Bupleurum chinense*. Ref: 6.

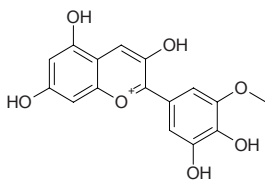
**17023 Petudin-3,7-di-O-(β-D-glucopyranoside)**

$C_{28}H_{33}O_{17}^+$ (641.57). Source: HE LAN ZHONG ZHI FAN HONG HUA *Crocus antalyensis* cv. Ref: 1897.

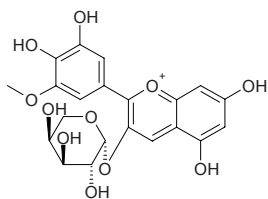


17024 Petunidin

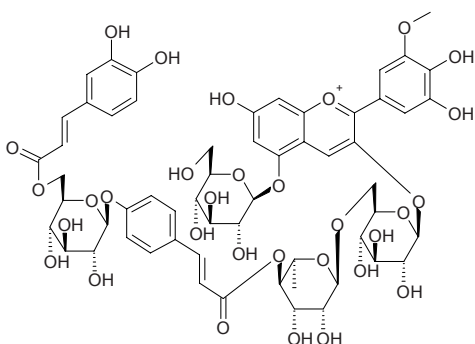
[13270-60-5] $C_{16}H_{13}O_7^+$ (317.28). **Pharm:** Anti-inflammatory; prevents brittle rupture of blood capillary. **Source:** MU XU *Medicago sativa*, PU⁽²⁾ TAO *Vitis vinifera*. **Ref:** 6, 658.

**17025 Petunidin-3-arabinoside**

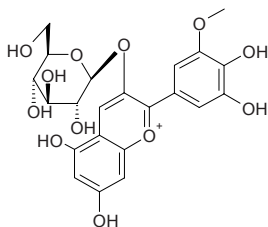
$C_{21}H_{21}O_{11}$ (449.39). **Source:** ZI WEI HUA *Lagerstroemia indica*. **Ref:** 6.

**17026 Petunidin 3-O-(6-O-(4-O-(4-O-(6-O-feruloyl-β-D-glucopyranosyl)-E-p-coumaroyl)-α-rhamnosyl)-β-D-glucopyranoside)-5-β-D-glucopyranoside**

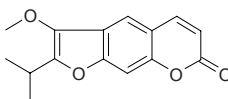
$C_{58}H_{65}O_{31}^+$ (1258.15). **Source:** BI DONG QIE *Petunia hybrida* (flower). **Ref:** 5240.

**17027 Petunidin-3-glucoside**

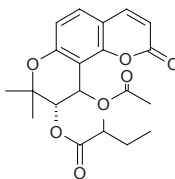
$C_{22}H_{23}O_{12}$ (479.42). **Source:** BAI FAN DOU *Phaseolus vulgaris*, HUANG LU ZHI YE *Cotinus coggygria* var. *cinerea*. **Ref:** 6.

**17028 Peucedanin**

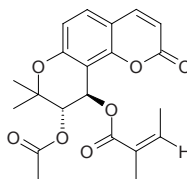
[133-26-6] $C_{15}H_{14}O_4$ (258.26). mp 97–99°C. **Pharm:** Antibacterial (aflatoxin B₁); antineoplastic (mus ascites carcinoma, InRt = 70%, mus mammary cancer *in vivo*, InRt = (30–40)%, hmn melanoma and granulation carcinoma); contracts blood vessels (frog); cytotoxic (mus ascites carcinoma, *in vitro*); estrogenic activity; LD₅₀ (mus, orl) = 315mg/kg. **Source:** E GUO QIAN HU *Peucedanum ruthenicum*, NAN HE SHI *Daucus carota*, OU ZHOU MO YAO *Myrrhis odorata*, QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], SHUAN CHI QIN *Prangos pabularia*, XIA GUO QIAN HU *Peucedanum stenocarpum*, XUE WEI CAI *Anthriscus cerefolium*, YAO YONG QIAN HU *Peucedanum officinale*, ZHUN GE ER QIAN HU *Peucedanum morisonii*, AO PA CAO *Oppopanax chironium* (root). **Ref:** 5, 658, 4071.

**17029 Peucedanocoumarin I**

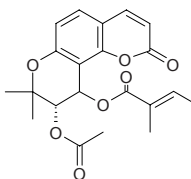
$C_{21}H_{24}O_7$ (388.42). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 660.

**17030 Peucedanocoumarin II**

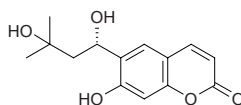
$C_{21}H_{22}O_7$ (386.41). mp 134.5–136.0°C (dec), $[\alpha]_D^{24} = +7.0^\circ$ ($c = 1.0$, CHCl₃). **Source:** LI JIANG QIAN HU *Peucedanum govanianum* var. *bicolor*. **Ref:** 557, 660.

**17031 Peucedanocoumarin III**

$C_{21}H_{22}O_7$ (386.41). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 660.

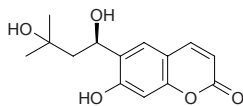
**17032 (R)-Peucedanol**

[20516-23-8] $C_{14}H_{16}O_5$ (264.28). Crystals (EtOAc), mp 177.5–178°C, 174–175°C, $[\alpha]_D^{23} = +50.2^\circ$ ($c = 0.5$, EtOH). **Source:** BIN HAI QIAN HU *Peucedanum japonicum*. **Ref:** 1521, .

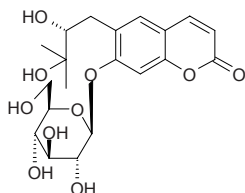


17033 (S)-Peucedanol

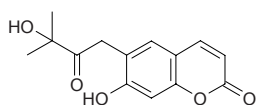
$C_{14}H_{16}O_5$ (264.28). mp 175°C, $[\alpha]_D = -47^\circ$ ($c = 0.68$, EtOH). Source: BAI HUA QIAN HU *Peucedanum praeruptorum*, *Evodia belaha*. Ref: 1521, 3189.

**17034 (R)-Peucedanol 7-O-β-D-glucopyranoside**

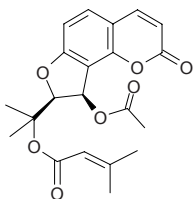
$C_{20}H_{26}O_{10}$ (426.42). Source: FEN CHA DANG GUI *Angelica furcijuga* (flower). Ref: 4454.

**17035 Peucedanone**

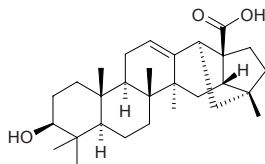
7-Hydroxy-6-(3-hydroxy-3-methyl-2-oxobutyl)-coumarin $C_{14}H_{14}O_5$ (262.26). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = 180\mu\text{mol/L}$). Source: CHAO XIAN DANG GUI *Angelica gigas* (underground part). Ref: 3058.

**17036 Peucenidin**

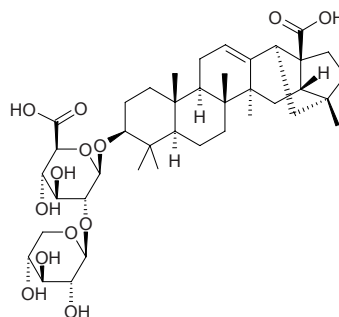
[33044-93-8] $C_{21}H_{22}O_7$ (386.41). Pharm: Antispasmodic; coronary vasodilator. Source: BO SHI QIAN HU *Peucedanum bourgaei*, SHAN QIAN HU *Peucedanum oreoselinum*, *Libanotis pyrenaicum*. Ref: 658.

**17037 Pfaffic acid**

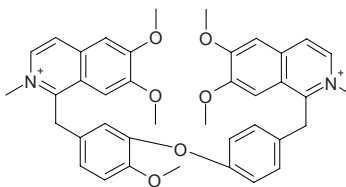
[86432-14-6] $C_{29}H_{44}O_3$ (440.67). Pharm: Cytotoxic (4–6μg/mL). Source: BA XI REN SHEN *Pfaffia paniculata*. Ref: 658.

**17038 Pfaffoside A**

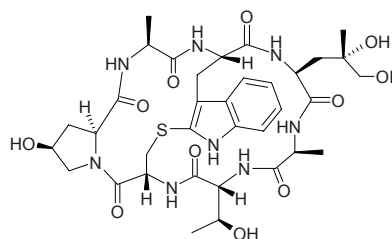
[90745-17-8] $C_{40}H_{60}O_{13}$ (748.92). Pharm: Cytotoxic (30–50μg/mL). Source: BA XI REN SHEN *Pfaffia paniculata*. Ref: 658.

**17039 Phaeantharine**

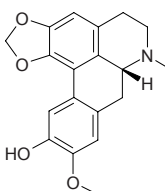
[22670-80-0] $C_{39}H_{40}N_2O_6^{2+}$ (632.76). Pharm: Antineoplastic (animal model). Source: *Phaeanthus ebracteolatus*. Ref: 658.

**17040 Phalloidin**

[17466-45-4] $C_{35}H_{48}N_8O_{11}S$ (788.88). Pharm: Hepatotoxin; toxin (genus *Mus*, fast action lasts 1–2h.). Source: DU E GAO *Amanita phalloides*. Ref: 658.

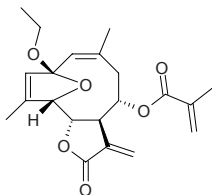
**17041 (-)-Phanostenine**

[25368-02-9] $C_{19}H_{19}NO_4$ (325.37). Colorless Featheriness crystals (MeOH), mp 126–128°C, $[\alpha]_D = -39^\circ$ ($c = 0.48$, $CHCl_3$). Pharm: Cytotoxic (hmn cancer cells); antimalarial (*Plasmodium falciparum*). Source: TAI WAN QIAN JIN TENG *Stephania sasakii*, XIAO YE DI BU RONG *Stephania succifera*, YUAN HUA FAN LI ZHI *Annona glabra*. Ref: 3614, 3615, 1756, 3616.

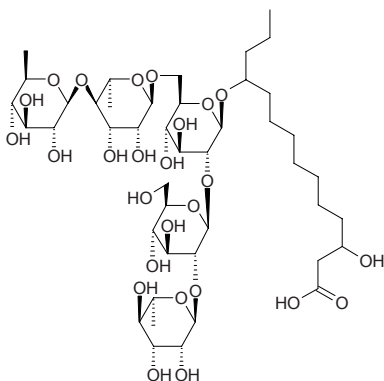


17042 Phantomolin

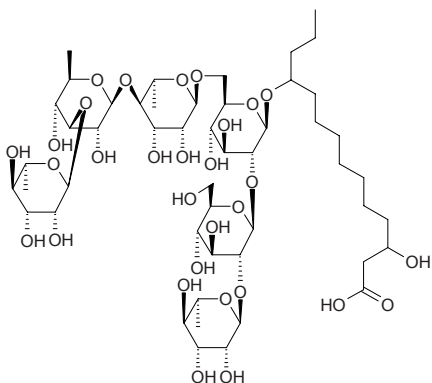
[55306-08-6] C₂₁H₂₆O₆ (374.44). Colorless oil. **Pharm:** Analgesic (mus, acetic acid-induced writhing model, 20mg/kg ip, InRt = (53±9)%, *p*<0.001); antineoplastic (mus EAC, 25mg/(kg·d) ip, InRt = 87%); anti-inflammatory (rat, swollen foot model caused by carrageenan, ip, InRt (54±19)%, *p*<0.001); cytotoxic (hmn throat epicytoma H.Ep.-2 cells *in vitro*, 0.66μg/mL). **Source:** ROU MAO DI DAN CAO *Elephantopus mollis*. **Ref:** 658, 661.

**17043 Pharbitic acid C**

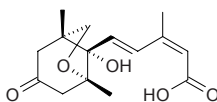
[30657-76-2] C₄₄H₇₈O₂₆ (1023.10). Crystals, +1H₂O, mp 120–129°C, [α]_D = –54.1° (MeOH). **Source:** QIAN NIU ZI *Pharbitis nil*. **Ref:** 1521.

**17044 Pharbitic acid D**

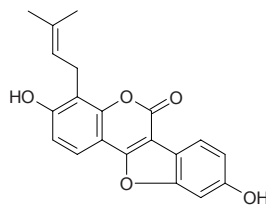
C₅₀H₈₈O₃₀ (1169.24). **Source:** QIAN NIU ZI *Pharbitis nil*. **Ref:** 6.

**17045 Phaseic acid**

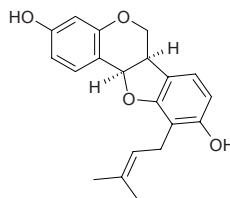
[24394-14-7] C₁₅H₂₀O₅ (280.32). mp 207–209°C, [α]_D = –3350° (MeOH). **Source:** HONG HUA CAI DOU *Phaseolus multiflorus*. **Ref:** 1521.

**17046 Phaseol**

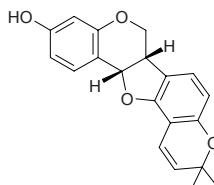
C₂₀H₁₆O₅ (336.35). **Source:** *Glycyrrhiza* sp. **Ref:** 2431.

**17047 (–)-Phaseollidin**

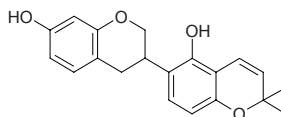
[37831-70-2] C₂₀H₂₀O₄ (324.38). **Pharm:** Antibacterial; antifungal; insect antifeedant. **Source:** JIANG DOU *Vigna unguiculata*, BIAN DOU *Lablab niger*, *Erythrina* spp., *Phaseolus* spp. **Ref:** 658.

**17048 Phaseollin**

3,9-Dihydroxy-10-*c,c*-dimethylallylpterocarpan [13401-40-6] C₂₀H₁₈O₄ (322.36). **Pharm:** Antibacterial (*Escherichia coli*, MIA = 5.00μg, control Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.50μg, Chloramphenicol, MIA = 0.0001μg; *Bacillus subtilis*, MIA = 0.50μg, Chloramphenicol, MIA = 0.0001μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.10μg, control Miconazole, MIA = 0.0001μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.1μg, IC₅₀ = 135μg/mL; control Quercetin, MIA < 0.05μg, IC₅₀ = 7μg/mL, Gallic acid, MIA < 0.05μg, IC₅₀ = 4μg/mL; Ascorbic acid, MIA < 0.10μg, IC₅₀ = 18μg/mL)^[5247]; insect antifeedant. **Source:** BAI FAN DOU *Phaseolus vulgaris*, JI KUAN CI TONG *Erythrina latissima* (stem wood), JIANG DOU *Vigna unguiculata*. **Ref:** 658, 5247.

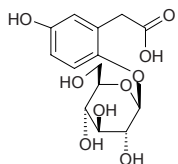
**17049 Phaseollinisoflavan**

[40323-57-7] C₂₀H₂₀O₄ (324.38). **Pharm:** Antibacterial (*Staphylococcus aureus in vitro*, MIC = 25μg/mL; *Mycobacterium smegmatis in vitro*, MIC = 12.5μg/mL); antifungal (*Blastomyces dermatitidis*, EC = 25μg/mL); insect antifeedant (*Costelytra zealandica* larva and *Heteronychus arator* larva). **Source:** BAI FAN DOU *Phaseolus vulgaris*, GAN CAO *Glycyrrhiza uralensis*, OU YA GAN CAO *Glycyrrhiza glabra* var. *typica*. **Ref:** 2, 658.

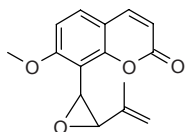


17050 Phaseolidin

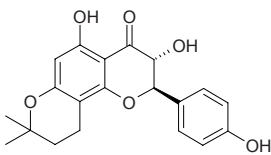
[118555-82-1] C₁₄H₁₈O₉ (330.29). Crystals (EtOAc–MeOH), mp 207–209°C, [α]_D²⁵ = –41.13° (c = 1.24, H₂O). Source: KE TENG ZI *Entada phaseoloides* [Syn. *Lens phaseoloides*]. Ref: 3190.

**17051 Phebalosin**

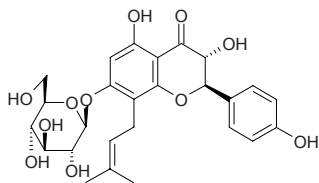
[6545-99-9] C₁₅H₁₄O₄ (258.28). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], *Murraya* spp. Ref: 11.

**17052 Phellamuretin**

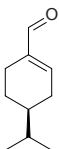
C₂₀H₂₀O₆ (356.38). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00044%dw). Ref: 4722.

**17053 Phellamurin**

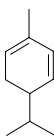
[52589-11-4] C₂₆H₃₀O₁₁ (518.52). mp 205°C. Pharm: Antioxidant (DPPH scavenger, 250μmol/L, InRt = 34.6%; control Vitamin E, IC₅₀ = 8.3μmol/L)^[4722]. Source: HUANG BAI *Phellodendron amurense*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: 2.61%dw)^[4722]. Ref: 5, 4502, 4722.

**17054 Phellandral**

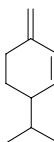
[21391-98-0] C₁₀H₁₆O (152.24). Oil, bp 220–230°C, [α]_D = –139° (CHCl₃). Source: RU XIANG *Boswellia carterii*, ZI RAN QIN *Cuminum cyminum*, *Eucalyptus* spp., *Lavandula* spp. Ref: 660, 1521.

**17055 α-Phellandrene**

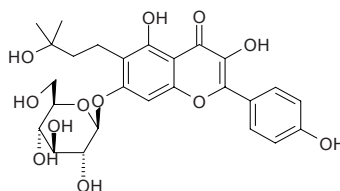
Phellandrene [99-83-2] C₁₀H₁₆ (136.24). Pharm: Bronchial smooth muscle stimulant. Source: A LU HA LIANG JIANG *Alpinia allughas*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FU SHE SONG *Pinus radiata*, GAN JIANG *Zingiber officinale*, JU PI *Citrus reticulata*, JU YUAN *Citrus medica*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], SHUI HUI XIANG AN *Eucalyptus phellandra*, XIANG HUANG LIAN MU *Pistacia lentiscus*. Ref: 2, 658, 660.

**17056 β-Phellandrene**

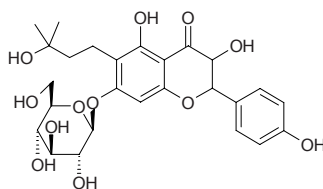
3-Methylene-6-(1-methylethyl)cyclohexene [550-10-2] C₁₀H₁₆ (136.24). Pharm: Bronchial smooth muscle stimulant. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DANG GUI *Angelica sinensis*, KA XI YA SONG *Pinus kesiya*, LIAN QIAO *Forsythia suspensa*, NAN DE WA MIAN *Gossypium sturtianum* var. *nandewarance*, SHAN NAI *Kaempferia galanga*, SHENG JIANG *Zingiber officinale*, WAN YAN XIANG MAO *Cymbopogon flexuosus*. Ref: 2, 658, 660, 1344.

**17057 Phellatin**

[32507-67-9] C₂₆H₃₀O₁₂ (534.52). Source: HUANG BAI *Phellodendron amurense*. Ref: 6.

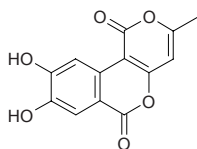
**17058 Phellavin**

[32507-67-8] C₂₆H₃₂O₁₂ (536.54). Source: HUANG BAI *Phellodendron amurense*. Ref: 6.

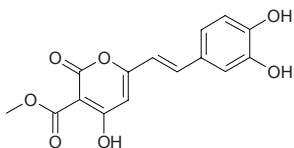


17059 Phelligridin A

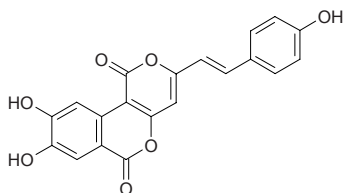
$C_{13}H_8O_6$ (260.21). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} > 0.192\mu\text{mol/L}$; BGC823, $IC_{50} = 0.181\mu\text{mol/L}$; MCF7, $IC_{50} = 0.109\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.11\mu\text{mol/L}$; Ketr3, $IC_{50} > 0.192\mu\text{mol/L}$; HCT8, $IC_{50} > 0.192\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp). **Ref:** 4747.

**17060 Phelligridin B**

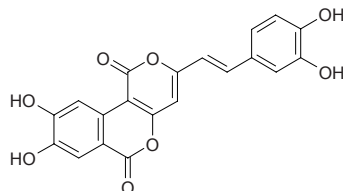
$C_{15}H_{12}O_7$ (304.26). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} > 0.164\mu\text{mol/L}$; BGC823, $IC_{50} = 0.146\mu\text{mol/L}$; MCF7, $IC_{50} = 0.143\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.05\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.144\mu\text{mol/L}$; HCT8, $IC_{50} = 0.139\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp). **Ref:** 4747.

**17061 Phelligridin C**

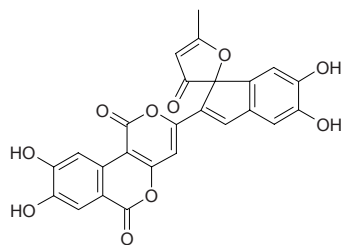
$C_{20}H_{12}O_7$ (364.31). Yellow powder, mp 272–275°C (MeOH). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 0.012\mu\text{mol/L}$; BGC823, $IC_{50} > 0.137\mu\text{mol/L}$; MCF7, $IC_{50} = 0.072\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.01\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.094\mu\text{mol/L}$; HCT8, $IC_{50} = 0.126\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp; yield = 0.0013%dw). **Ref:** 4747.

**17062 Phelligridin D**

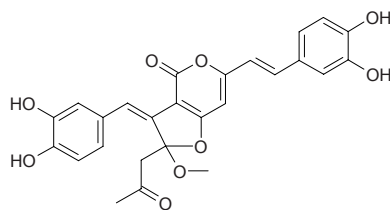
$C_{20}H_{12}O_8$ (380.31). Yellow powder (MeOH), mp > 300°C. **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 0.016\mu\text{mol/L}$; BGC823, $IC_{50} > 0.131\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0037\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.008\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.09\mu\text{mol/L}$; HCT8, $IC_{50} = 0.099\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp; yield = 0.00034%dw). **Ref:** 4747.

**17063 Phelligridin E**

$C_{25}H_{14}O_{10}$ (474.38). Orange powder (MeOH), mp 178–181°C, $[\alpha]_D^{18} = 0^\circ$ ($c = 0.16$, MeOH:DMSO = 1:1). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 0.079\mu\text{mol/L}$; BGC823, $IC_{50} = 0.096\mu\text{mol/L}$; MCF7, $IC_{50} = 0.07\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.055\mu\text{mol/L}$; Ketr3, $IC_{50} > 0.105\mu\text{mol/L}$; HCT8, $IC_{50} > 0.105\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp; yield = 0.00030%dw). **Ref:** 4747.

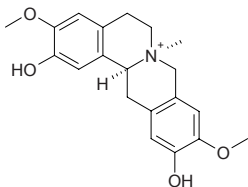
**17064 Phelligridin F**

$C_{26}H_{22}O_9$ (478.46). Orange powder (MeOH), mp²¹ 5–217°C, $[\alpha]_D^{18} = -3.23^\circ$ ($c = 0.31$, MeOH:DMSO = 1:1). **Pharm:** Cytotoxic (*in vitro*, A549, $IC_{50} = 0.084\mu\text{mol/L}$; BGC823, $IC_{50} = 0.092\mu\text{mol/L}$; MCF7, $IC_{50} = 0.085\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.046\mu\text{mol/L}$; Ketr3, $IC_{50} > 0.104\mu\text{mol/L}$; HCT8, $IC_{50} > 0.104\mu\text{mol/L}$; control Topotecan, A549, $IC_{50} = 0.0032\mu\text{mol/L}$; BGC823, $IC_{50} = 0.0043\mu\text{mol/L}$; MCF7, $IC_{50} = 0.0018\mu\text{mol/L}$; Bel7402, $IC_{50} = 0.0012\mu\text{mol/L}$; Ketr3, $IC_{50} = 0.0049\mu\text{mol/L}$; HCT8, $IC_{50} = 0.0015\mu\text{mol/L}$). **Source:** SANG HUANG *Phellinus igniarius* (sporocarp; yield = 0.00044%dw). **Ref:** 4747.

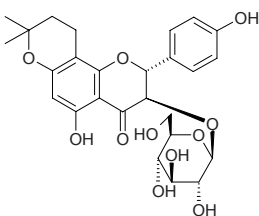


17065 Phellodendrine

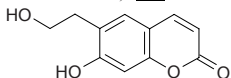
[6873-13-8] $C_{20}H_{24}NO_4^+$ (342.42). mp 258°C. Pharm: CNS depressant; inhibits spontaneous movement and reflex actions (mus). Source: HUANG BAI *Phellodendron amurense* (bark: mean content of 9 samples = 0.1468%^[5508]); HUANG PI SHU *Phellodendron chinense* (bark: mean content of 15 samples = 0.4210%^[5508]), TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*. Ref: 4, 658, 660, 5501, 5508.

**17066 Phellodendroside**

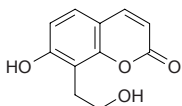
[40451-69-2] $C_{26}H_{30}O_{11}$ (518.52). Crystals, mp 154–156°C. Source: HUANG BAI *Phellodendron amurense*, RI BEN HUANG BAI *Phellodendron japonicum*. Ref: 1521.

**17067 Phellodenol A**

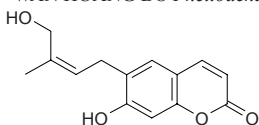
$C_{11}H_{10}O_4$ (206.2). White powder, mp 179–180°C (MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00008%dw). Ref: 4722.

**17068 Phellodenol B**

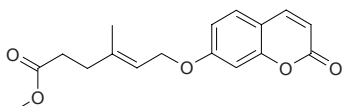
$C_{11}H_{10}O_4$ (206.2). White needles, mp 159–160°C (MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00072%dw). Ref: 4722.

**17069 Phellodenol C**

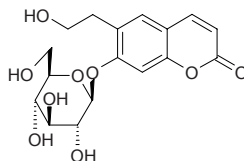
$C_{14}H_{14}O_4$ (246.27). White needles, mp 177–178°C (MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf). Ref: 4722.

**17070 Phellodenol D**

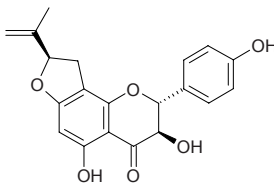
$C_{17}H_{18}O_5$ (302.33). Colorless powder, mp 88–89°C. Source: HUANG PI SHU *Phellodendron chinense* (leaf). Ref: 4941.

**17071 Phellodenol E**

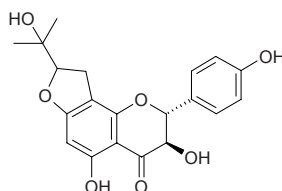
$C_{17}H_{20}O_9$ (368.34). Colorless powder, mp 166–167°C, $[\alpha]_D^{25} = -49.5^\circ$ ($c = 0.025$, MeOH). Source: HUANG PI SHU *Phellodendron chinense* (leaf). Ref: 4941.

**17072 Phellodensin A**

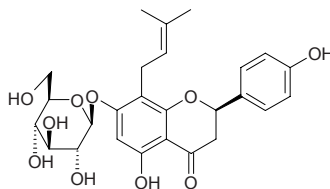
$C_{20}H_{18}O_6$ (354.36). White powder, mp 150–151°C (MeOH), $[\alpha]_D^{25} = -18.8^\circ$ ($c = 0.06$, MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00053%dw). Ref: 4722.

**17073 Phellodensin C**

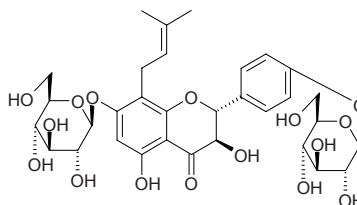
$C_{20}H_{20}O_7$ (372.38). White powder, mp 108–109°C (MeOH), $[\alpha]_D^{25} = -28.0^\circ$ ($c = 0.046$, MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00009%dw). Ref: 4722.

**17074 (2R)-Phellodensin F**

$C_{26}H_{30}O_{10}$ (502.52). White powder, mp 220–221°C, $[\alpha]_D^{25} = -67.5^\circ$ ($c = 0.15$, MeOH). Source: RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4502.

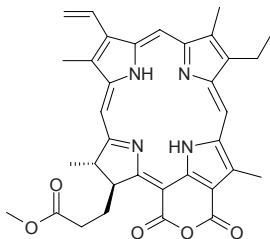
**17075 Phellodensin G**

$C_{32}H_{40}O_{16}$ (680.67). Colorless powder, mp 266–267°C, $[\alpha]_D^{25} = +66.78^\circ$ ($c = 0.023$, MeOH). Source: HUANG PI SHU *Phellodendron chinense* (leaf). Ref: 4941.

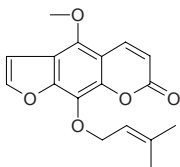


17076 Phellophyll a

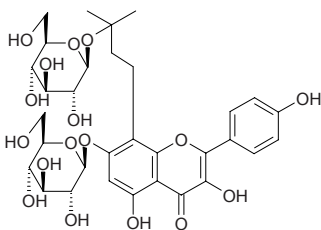
$C_{34}H_{34}N_4O_5$ (578.67). Deep green powder, mp 141~142°C, (MeOH), $[\alpha]_D^{25} = +298.0^\circ$ ($c = 0.007$, MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00031%dw). Ref: 4722.

**17077 Phellopterin**

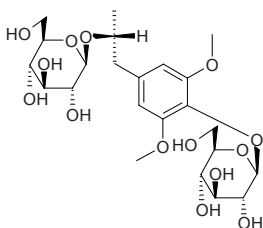
[2543-94-4] $C_{17}H_{16}O_5$ (300.31). mp 102°C. Pharm: PGE₂ production inhibitor (rat peritoneal macrophages, LPS-induced, 30 μmol/L; inhibits LPS-induced expression of COX-2 and mPGES, not directly inhibits COX-1 and COX-2)^[5392]. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DA YE NIU FANG FENG *Heracleum mantegazzianum*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], GUANG HUA DANG GUI *Angelica glabra*, HANG BAI ZHI *Angelica taiwaniana*, QI BAI ZHI *Angelica dahurica* cv. *qibaizhi*, QIANG HUO *Notopterygium incisum*, XIA YAN GU DANG GUI *Archangelica decurrens*, *Ferula alliacea*. Ref: 2, 566, 660, 1521, 5392.

**17078 Phelloside**

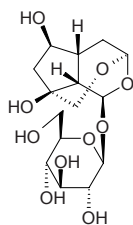
Phellizide [20194-51-8] $C_{32}H_{40}O_{17}$ (696.67). Yellow needles, mp 282~284°C. Source: HUANG BAI *Phellodendron amurense*, KU YE DAO HUANG BAI *Phellodendron sachalinense*. Ref: 3191.

**17079 Pheloside**

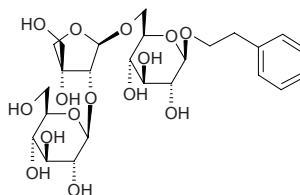
Feloside [58497-07-7] $C_{23}H_{36}O_{14}$ (536.53). mp 224~225°C, $[\alpha]_D^{20} = -27.7^\circ$ ($c = 0.99$, water). Source: *Ferula kopetdaghensis*. Ref: 2088.

**17080 Phelypaeside**

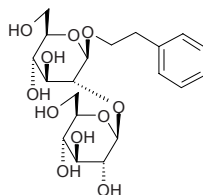
$C_{15}H_{24}O_{10}$ (364.35). Source: *Cistanche* sp. Ref: 2448.

**17081 Phenethylalcohol 8-O-β-D-glucopyranosyl-(1→2)-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

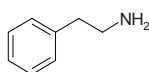
$C_{25}H_{38}O_{15}$ (578.57). Powder, $[\alpha]_D^{26} = -56.6^\circ$ ($c = 1.7$, MeOH). Source: ZI HU *Bupleurum falcatum*. Ref: 2317.

**17082 Phenethylalcohol 8-O-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside**

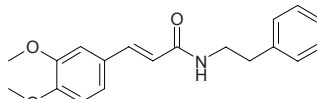
$C_{20}H_{30}O_{11}$ (446.46). Powder, $[\alpha]_D^{26} = -17.7^\circ$ ($c = 0.7$, MeOH). Source: ZI HU *Bupleurum falcatum*. Ref: 2317.

**17083 Phenethylamine**

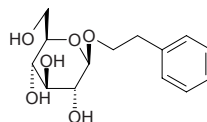
[64-04-0] $C_8H_{11}N$ (121.18). Liquid, $d_4^{24} = 0.958$, bp 197~198°C, bp 70~71°C/7mmHg, $n_D^{25} = 1.5290$. Pharm: Irritant (to skin); sensitizer. Source: GUI GAI *Coprinus atramentarius*, HUANG HUA ZI *Sida cordifolia*, HONG MU JI CAO *Desmodium gangeticum*, MA HUANG *Ephedra sinica*, *Acacia* spp., *Crataegus* spp. Ref: 2, 6, 658, 660, 1521.

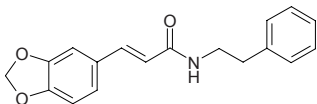
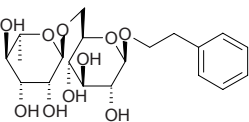
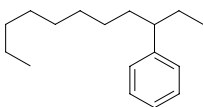
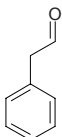
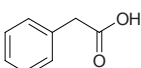
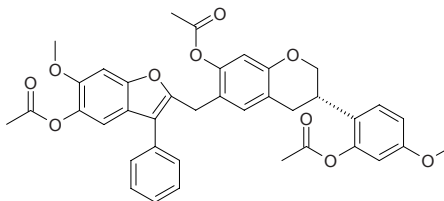
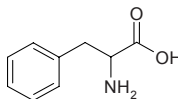
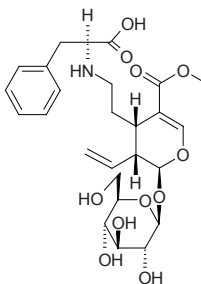
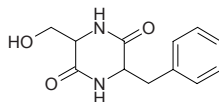
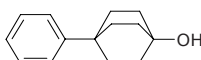
**17084 N-β-Phenethyl-3-(3,4-dimethoxy phenyl) propenamide**

$C_{19}H_{21}NO_3$ (311.38). Source: JI JI JING YE *Chloranthus serratus*. Ref: 3192.

**17085 Phenethyl β-D-glucopyranoside**

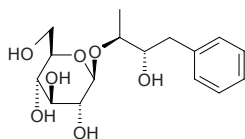
$C_{14}H_{20}O_6$ (284.31). Amorphous powder, $[\alpha]_D^{23} = -37^\circ$. Source: BEI SHA SHEN *Glehnia littoralis* (fruit), JIAN YE YIN YANG HUO *Epimedium sagittatum*, KUO BAO JU *Baccharis indica* [Syn. *Pluchea indica*]. Ref: 3193, 3194, 3525.



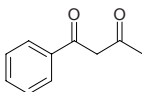
17086 N-β-Phenethyl-3-(3,4-methylenedioxy phenyl) propenamideC₁₈H₁₇NO₃ (295.34). Source: JI JI JING YE *Chloranthus serratus*. Ref: 3192.**17087 Phenethyl rutinose**Phenethyl α-L-rhamnopyranosyl(1→6)-β-D-glucopyranoside C₂₀H₃₀O₁₀ (430.46).Source: GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome), SHI LIU ZHONG ZI *Punica granatum* (seed; yield = 0.0005%). Ref: 4310, 4792.**17088 3-Phenylundecane**C₁₇H₂₈ (232.41). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.**17089 Phenol**Hydroxybenzene [108-95-2] C₆H₆O (94.11). Pharm: Antiseptic; relieves itching; toxin. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], CHAI HU *Bupleurum chinense*, CHAN YANG *Populus tremuloides*, CHUAN XU DUAN *Dipsacus asperoides*, DANG GUI *Angelica sinensis*, LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], MAN JING ZI *Vitex trifolia*, RI BEN XIANG RU *Elsholtzia nipponica*, YIN CHEN HAO *Artemisia capillaris*, ZHONG HUA JI SHI TENG *Paederia chinensis*. Ref: 2, 658, 660.**17090 Phenylacetaldehyde**[122-78-1] C₈H₈O (120.15). Crystals (H₂O), d₄^{19.6} = 1.027, mp 33–34°C, bp 195°C, bp 78°C/10mmHg. Source: BAI GUI BI *Phallus impudicus*, FAN QIE *Lycopersicon esculentum*, HONG HUA *Carthamus tinctorius*, MENG GU HAO *Artemisia mongolica*, NIU BANG GEN *Arctium lappa*, SUAN JIAO *Tamarindus indica*, WEI XIAO WAN SHOU JU *Tagetes minuta*, XING ZI *Prunus armeniaca*, *Citrus* spp. Ref: 660, 1521.**17091 Phenylacetic acid**[103-82-2] C₈H₈O₂ (136.15). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingsensis*]. Ref: 2.**17092 (3S)-6-(3-Phenyl-5-acetoxy-6-methoxybenzo[b]furan-2-ylmethyl)-vestitol-triacetate**C₃₈H₃₄O₁₀ (650.69). Light brown solid. Source: GUANG LIANG HUANG TAN *Dalbergia nitidula*. Ref: 1992.**17093 Phenylalanine**2-Amino-3-phenylpropanoic acid [3617-44-5] C₉H₁₁NO₂ (165.19). Pharm: Antidepressant; essential amino acid. Source: BAN XIA *Pinellia ternata* (dried tuber; content scope of 4 origins = 0.82%–1.61%, mean content = 1.05%)^[5521], BING LANG *Areca catechu*, CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, NING XIA GOU QI ZI *Lycium barbarum*, QIU HUA DANG SHEN *Codonopsis subglobosa*, ROU CONG RONG *Cistanche deserticola*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*]. Ref: 2, 658, 660, 5521.**17094 L-Phenylalaninosecologanin**C₂₆H₃₆NO₁₁ (537.57). Amorphous powder, [α]_D²⁶ = –112.4° (c = 0.214, MeOH). Source: JIN YIN HUA *Lonicera japonica* (stem and leaf). Ref: 4220.**17095 L-Phenylalanyl-L-serine anhydride**C₁₂H₁₄N₂O₃ (234.26). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 477.**17096 4-Phenylbicyclo[2.2.2]octan-1-ol**C₁₄H₁₈O (202.30). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

17097 (2S,3S)-1-Phenyl-2,3-butanediol 3-O-β-D-glucopyranoside

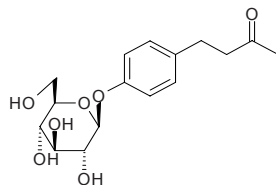
$C_{16}H_{24}O_7$ (328.37). White powder, $[\alpha]_D^{27} = -21.9^\circ$ ($c = 2.00$, $CHCl_3$). Pharm: Aldose reductase inhibitor (rat lens, $IC_{50} > 100\mu mol/L$, $100\mu mol/L$ InRt = 9.7%, control Epalrestat, $IC_{50} = 0.072\mu mol/L$). Source: YE JU HUA *Chrysanthemum indicum* (flower: yield = 0.019%). Ref: 4214.

**17098 1-Phenyl-1,3-butanediol**

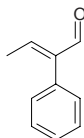
[93-91-4] $C_{10}H_{10}O_2$ (162.19). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**17099 Phenylbutanone-glucoside**

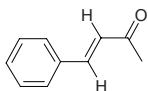
$C_{16}H_{22}O_7$ (326.35). Source: DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

**17100 2-Phenyl-2-butenal**

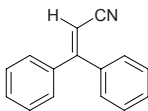
$C_{10}H_{10}O$ (146.19). Source: CHAYE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

**17101 (E)-4-Phenyl-3-buten-2-one**

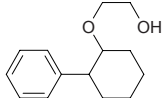
$C_{10}H_{10}O$ (146.19). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**17102 α-Phenylcinnamic acid nitrile**

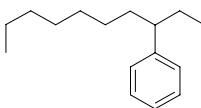
[3531-24-6] $C_{15}H_{11}N$ (205.26). mp 49~51°C, bp 213~214°C/23mmHg. Source: HAN LIAN HUA *Tropaeolum majus*. Ref: 6.

**17103 2-(2-Phenyl cyclohexyloxy) ethanol**

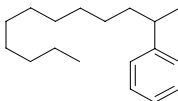
$C_{14}H_{20}O_2$ (220.31). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**17104 3-Phenyldecane**

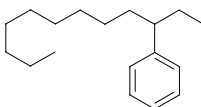
(1-Methylundecyl)benzene [2719-61-1] $C_{16}H_{26}$ (218.39). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17105 2-Phenyldecane**

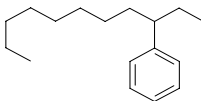
[4621-36-7] $C_{18}H_{30}$ (246.44). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17106 3-Phenyldecane**

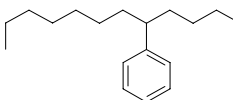
[2400-00-2] $C_{18}H_{30}$ (246.44). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17107 4-Phenyldecane**

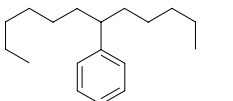
[2719-64-4] $C_{18}H_{30}$ (246.44). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17108 5-Phenyldecane**

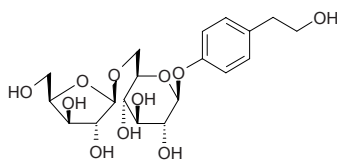
[2719-63-3] $C_{18}H_{30}$ (246.44). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17109 6-Phenyldecane**

[2719-62-2] $C_{18}H_{30}$ (246.44). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

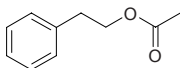
**17110 Phenyl ethanol 4-O-β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside**

$C_{19}H_{28}O_{11}$ (432.43). Colorless amorphous powder. Source: TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (root and rhizome). Ref: 4142.

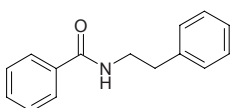


17111 Phenylethyl acetate

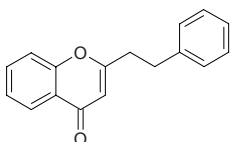
[103-45-7] C₁₀H₁₂O₂ (164.21). bp 224°C. Source: LU DOU LE HUA *Pandanus tectorius*, MEI GUI HUA *Rosa rugosa*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6.

**17112 N-(2-Phenylethyl)benzamide**

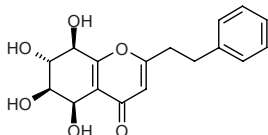
C₁₅H₁₅NO (225.29). White amorphous powder, mp 115.0–116.0°C, mp 117.0–118.0°C. Source: LIU ZHUANG DAN YE YUN XIANG *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*] (aerial parts). Ref: 5156.

**17113 2-(2-Phenylethyl) chromone**

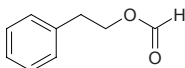
C₁₇H₁₄O₂ (250.30). White acicular crystals, mp 65°C. Source: BAI MU XIANG *Aquilaria sinensis*, CHEN XIANG *Aquilaria agallocha*. Ref: 13, 4173.

**17114 (5R,6R,7S,8R)-2-(2-Phenylethyl)-5e',6a,7e,8e'-tetrahydroxy-5,6,7,8-tetrahydrochromone**

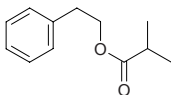
AH16 C₁₇H₁₈O₆ (318.33). White powder, mp 100–105°C, [α]_D = +4.76°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**17115 Phenyl ethyl formate**

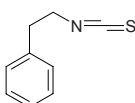
[104-62-1] C₉H₁₀O₂ (150.18). bp 94°C/9mmHg. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**17116 β-Phenylethyl isobutanoate**

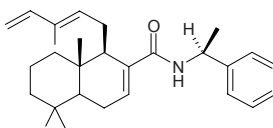
C₁₂H₁₆O₂ (192.26). Source: FU JIAN XI XIN *Asarum fukienense*. Ref: 3197.

**17117 β-Phenylethyl isothiocyanate**

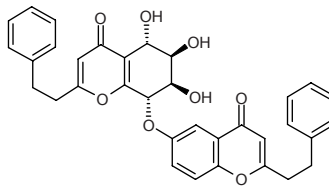
[2257-09-2] C₉H₉NS (163.24). Liquid, bp 142°C/13mmHg, 143–145°C/12mmHg, 106°C/2.5mmHg. Pharm: Insecticidal. Source: JIE CAI *Brassica juncea*, JIE ZI *Brassica juncea*, family Brassicaceae spp. Ref: 6, 1521.

**17118 N-[(S)-1-Phenylethyl]-labda-7,12(E),14-triene-17-amide**

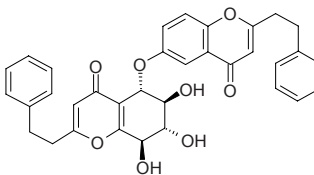
C₂₈H₃₉NO (405.63). mp 146–148°C, [α]_D²⁰ = +9.2° (c = 1.2, CHCl₃). Pharm: Cytotoxic inactive (*in vitro*, BT474, CHAGO, HepG2, Kato3, SW620: > 10μg/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

**17119 (5S,6R,7R,8S)-2-(2-Phenylethyl)-5,6,7-tri-hydroxy-5,6,7,8-tetrahydro-8-[2-(2-phenylethyl)chromonyl-6-oxy]chromone (AH13)**

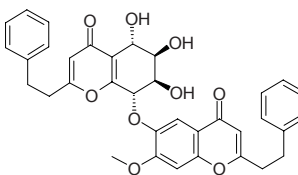
C₃₄H₃₀O₈ (566.61). Colorless acicular crystals, mp 193–194°C, [α]_D = +2°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**17120 (5S,6S,7S,8R)-2-(2-Phenylethyl)-6,7,8-trihydroxy-5,6,7,8-tetrahydro-5-[2-(2-phenylethyl)chromonyl-6-oxy]chromone (AH14)**

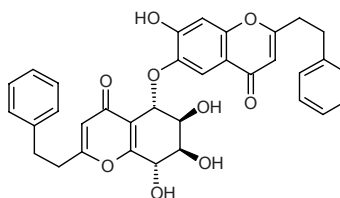
C₃₄H₃₀O₈ (566.61). White powder, mp 86–88°C, [α]_D = +64.4°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**17121 (5S,6S,7R,8S)-2-(2-Phenylethyl)-5,6,7-trihydroxy-5,6,7,8-tetrahydro-8-[2-(2-phenylethyl)-7-methoxychromonyl-6-oxy]chromone (AH12)**

C₃₅H₃₂O₉ (596.64). Colorless acicular crystals, mp 227°C, [α]_D = +0.7°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

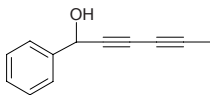
**17122 (5S,6S,7R,8S)-2-(2-Phenylethyl)-6,7,8-trihydroxy-5,6,7,8-tetrahydro-5-[2-(2-phenyl-ethyl)-7-hydroxy-chromonyl-6-oxy]-chromone (AH15)**

C₃₄H₃₀O₉ (582.61). Colorless acicular crystals, mp 244–245°C, [α]_D = +5.8°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

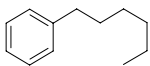


17123 1-Phenyl-2,4-hexadiyne-1-ol

[1574-95-4] C₁₂H₁₀O (170.21). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**17124 1-Phenylhexane**

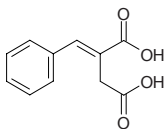
[1077-16-3] C₁₂H₁₈ (162.28). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17125 Phenyl isothiocyanate**

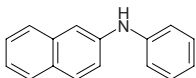
Isothiocyanato-benzene [103-72-0] C₇H₅NS (135.19). bp 221°C. Source: JIE ZI *Brassica juncea*. Ref: 6.

**17126 trans-Phenylitaconic acid**

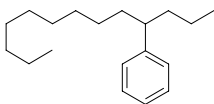
C₁₁H₁₀O₄ (206.20). Source: AI YE *Artemisia argyi*. Ref: 3198.

**17127 N-Phenyl-2-naphthylamine**

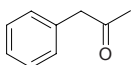
[135-88-6] C₁₆H₁₃N (219.29). Needles (MeOH), mp 108°C, 103–104°C, bp 395–399.5°C, 237°C/13mmHg. Pharm: Carcinogenic; LD₅₀ (mus, orl) = 8730mg/kg. Source: DING YU JU *Acroptilon repens*, DUO GEN WU TOU *Aconitum karakolicum*, JIAN HAI LONG *Syngnathus acus*, NAN HE SHI *Daucus carota*, SHUI HU LU *Eichhornia crassipes*. Ref: 1521, 3199.

**17128 4-Phenyltridecane**

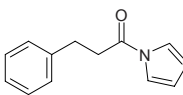
C₁₉H₃₂ (260.47). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**17129 Phenyl-2-propanone**

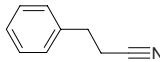
Phenylacetone [103-79-7] C₉H₁₀O (134.18). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**17130 N-(3-Phenylpropanoyl)pyrrole**

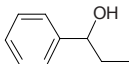
[112448-69-8] C₁₃H₁₃NO (199.25). mp 48.5–50°C. Source: JIA JU ZI *Piper sarmentosum*. Ref: 1510.

**17131 Phenyl propionitrile**

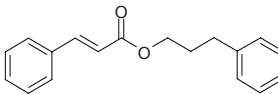
C₉H₉N (131.18). Source: DOU BAN CAI *Nasturtium officinale*. Ref: 1323.

**17132 Phenylpropyl alcohol**

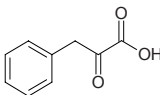
[93-54-9] C₉H₁₂O (136.20). bp (–) 94–95°C/10mmHg, (±) 217–221°C. Source: SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6.

**17133 Phenylpropyl cinnamate**

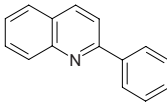
C₁₈H₁₈O₂ (266.34). Source: AN XI XIANG *Styrax benzoin*. Ref: 6.

**17134 Phenyl pyruvic acid**

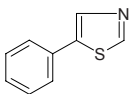
[156-06-9] C₉H₈O₃ (164.16). mp 157°C (dec). Source: LAI FU *Raphanus sativus*. Ref: 6.

**17135 2-Phenylquinoline**

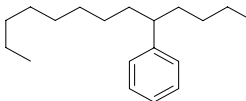
[612-96-4] C₁₅H₁₁N (205.26). mp 84°C (hexane). Pharm: Antileishmanial (*in vitro* *Leishmania* sp. 2903 IC₉₀ = 100µg/mL, *Trypanosoma cruzi* IC₉₀ = 100µg/mL, mus-infacted by *Leishmania amazonensis* H-142, IC₉₀ = 100µg/mL). Source: CHANG HUA TU LA SHU *Galipea longiflora*. Ref: 3617, 3601, 3618.

**17136 5-Phenyl thiazole**

C₉H₇NS (161.23). Source: SHAN NAI *Kaempferia galanga*. Ref: 1344.

**17137 5-Phenyltridecane**

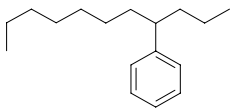
C₁₉H₃₂ (260.47). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.



17138 4-Phenylundecane

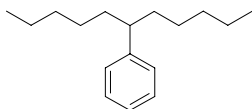
[4536-86-1] C₁₇H₂₈ (232.41). Source: XI YANG SHEN *Panax quinquefolium*.

Ref: 2.

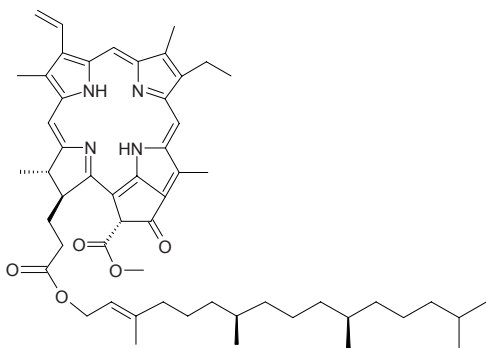
**17139 6-Phenylundecane**

[4537-14-8] C₁₇H₂₈ (232.41). Source: XI YANG SHEN *Panax quinquefolium*.

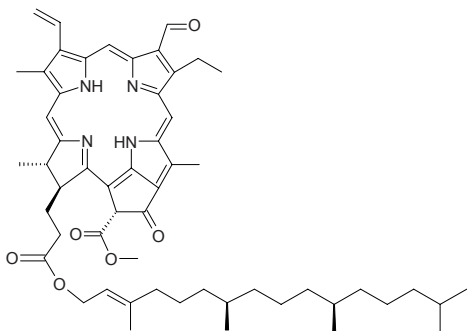
Ref: 2.

**17140 Pheophytin a**

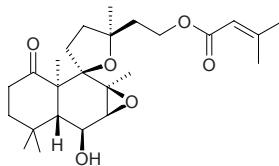
[603-17-8] C₅₅H₇₄N₄O₅ (871.23). Deep-greenish-black crystals (pet. ether), [α]_D²⁰ = -126°. Source: BAI SHU YE *Cupressus funebris*, BO CAI *Spinacia oleracea*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), YUAN CAN SHA *Bombyx mori*. Ref: 660, 1521, 4483.

**17141 Pheophytin b**

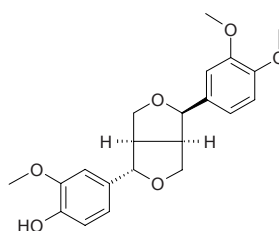
C₅₅H₇₂N₄O₆ (885.21). Deep-grey-green greasy solid (pet. ether), [α]_D²⁰ = -133°. Source: BO CAI *Spinacia oleracea*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), YUAN CAN SHA *Bombyx mori*. Ref: 660, 1521, 4483.

**17142 Philadelphinone**

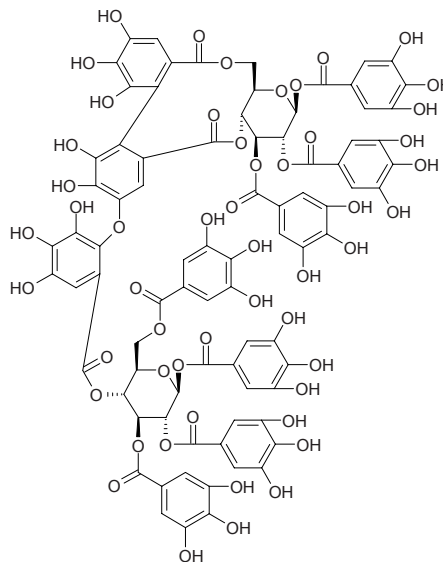
C₂₅H₃₈O₆ (434.58). Colorless amorphous solid, [α]_D²⁴ = -73.8° (c = 0.2, CHCl₃). Source: FEI CHENG FEI PENG *Erigeron philadelphicus* (aerial parts). Ref: 4338.

**17143 Phillygenin**

C₂₁H₂₄O₆ (372.42). Source: LIAN QIAO *Forsythia suspensa*. Ref: 660, 1521.

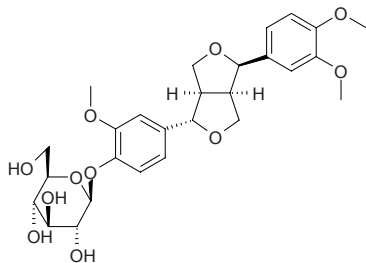
**17144 Phillyraeoidin A**

[125002-71-3] C₈₂H₆₀O₅₂ (1877.36). Maple amorphous powder, [α]_D³¹ = +75.8° (c = 1.1, acetone). Pharm: Cytotoxic (melanotic carcinoma RPMI-7951, ED₅₀ = 0.50 μg/mL); topoisomerase II inhibitor (IC₁₀₀ = 0.5 μmol/L). Source: FEI LI GUI LI *Quercus phillyraeoides*. Ref: 3619, 1728, 1706.

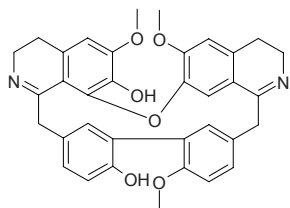


17145 Phillyrin

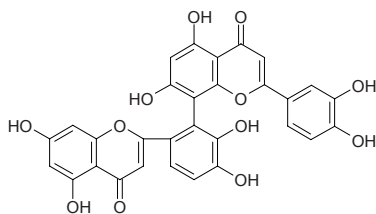
Forsythin [487-41-2] $C_{27}H_{34}O_{11}$ (534.57). mp (α) 155°C, (β) 185°C, $[\alpha]_D^{21} = +46.9^\circ$ ($c = 0.25$, CH_3OH). Pharm: Anti-inflammatory (inhibits production of COX metabolite PGE_2 , $IC_{50} = 45.6 \mu mol/L$; reduces TXB2 level, $IC_{50} = 168 \mu mol/L$)^[4415]. Source: KUO YE OU NV ZFEN *Phillyrea latifolia* (leaf), LIAN QIAO *Forsythia suspensa* (green fruit: mean content of 7 origins = 0.393%, ripe fruit: mean content of 5 origins = 0.113%^[5508]). Ref: 2, 660, 1521, 4415, 5508.

**17146 Philogaline**

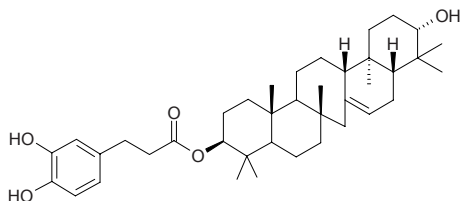
$C_{35}H_{32}N_2O_6$ (576.66). Amorphous, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.23$, $MeOH$). Source: *Guatteria boliviana* (stem cortex). Ref: 3976.

**17147 Philonotisflavone**

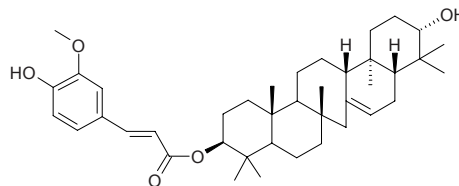
[124615-12-9] $C_{30}H_{18}O_{12}$ (570.47). Source: ZE XIAN *Philonotis fontana*, ZHOU SHUO XIAN *Aulacomnium androgynum*. Ref: 3120, 4549.

**17148 Phlegmanol A**

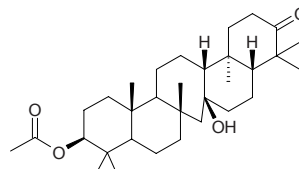
$C_{39}H_{58}O_5$ (606.89). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 3200, 2987.

**17149 Phlegmanol B**

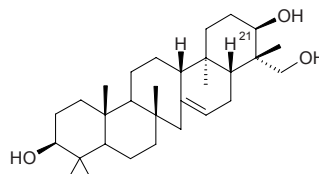
$C_{40}H_{58}O_5$ (618.91). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 2987.

**17150 Phlegmanol D**

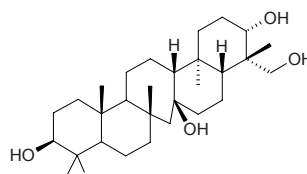
[35298-92-1] $C_{32}H_{52}O_4$ (500.77). Crystals (C_6H_6 -pet. ether), mp 304~305°C, $[\alpha]_D^{15} = +26^\circ$ ($c = 0.5$, $CHCl_3$). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], *Lycopodium megastachyum*. Ref: 2987.

**17151 Phlegmanol E**

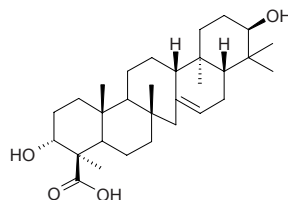
[35298-93-2] $C_{30}H_{50}O_3$ (458.73). Crystals (pet. ether, tri-Ac compound), mp 241~242°C (tri-Ac compound). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*, MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 2987.

**17152 Phlegmanol F**

[35345-81-4] $C_{30}H_{52}O_4$ (476.75). Crystals (as tri-Ac compound), mp 254~256°C (tri-Ac), $[\alpha]_D^{16} = +16^\circ$ ($c = 0.5$, $CHCl_3$, tri-Ac). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 3201.

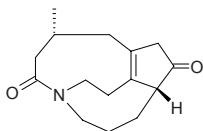
**17153 Phlegmaric acid**

[35298-94-3] $C_{30}H_{48}O_4$ (472.71). Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*]. Ref: 2987.

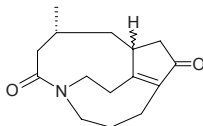


17154 Phlegmariurine A

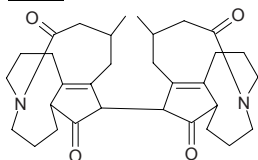
$C_{15}H_{21}NO_2$ (247.34). Source: HUA NAN MA WEI SHAN *Phlegmariurus fordii*. Ref: 3202.

**17155 Phlegmariurine B**

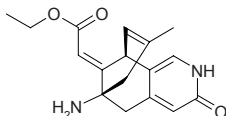
$C_{15}H_{21}NO_2$ (247.34). Source: HUA NAN MA WEI SHAN *Phlegmariurus fordii*. Ref: 3202.

**17156 Phlegmariurine C**

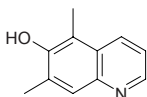
[115491-58-2] $C_{32}H_{44}N_2O_4$ (520.72). Acicular crystals, mp 151~152°C. Source: HUA NAN MA WEI SHAN *Phlegmariurus fordii*. Ref: 95.

**17157 Phlegmariurine M**

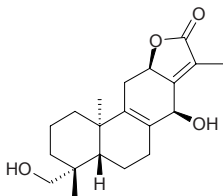
[125287-10-7] $C_{17}H_{20}N_2O_3$ (300.36). Source: HUA NAN MA WEI SHAN *Phlegmariurus fordii*. Ref: 3203.

**17158 Phlegmariurine N**

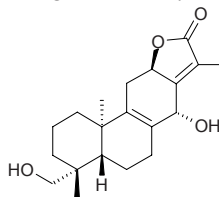
$C_{11}H_{11}NO$ (173.22). White acicular crystals, 179~181°C. Source: HUA NAN MA WEI SHAN *Phlegmariurus fordii*. Ref: 122.

**17159 Phlogacantholide B**

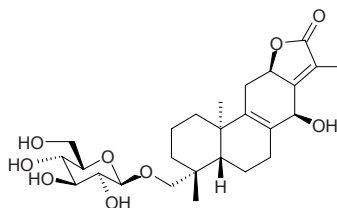
14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide $C_{20}H_{28}O_4$ (332.44). Colorless needles (MeOH), mp²¹ 1~213°C. Source: HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0523%dw). Ref: 4799.

**17160 Phlogacantholide C**

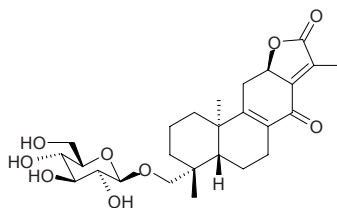
14 α ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide $C_{20}H_{28}O_4$ (332.44). Colorless needles (acetone), mp 181~183°C. Source: HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.00042%dw). Ref: 4799.

**17161 Phlogacanthoside A**

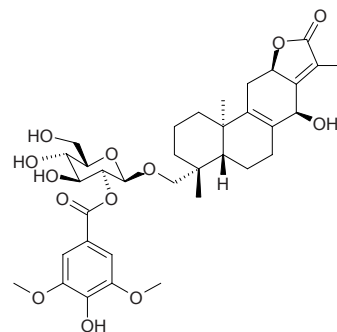
14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide 19-*O*- β -D-glucopyranoside $C_{26}H_{38}O_9$ (494.59). Colorless needles (MeOH), mp 148~149°C (MeOH). Source: HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0085%dw). Ref: 4799.

**17162 Phlogacanthoside B**

19-Hydroxy-14-oxoabieta-8,13(15)-dien-16,12-olide 19-*O*- β -D-glucopyranoside $C_{26}H_{36}O_9$ (492.57). Colorless needles (MeOH), mp 136~137°C (MeOH), $[\alpha]_D^{25} = -109.4^\circ$ ($c = 0.16$, MeOH). Source: HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.049%dw). Ref: 4799.

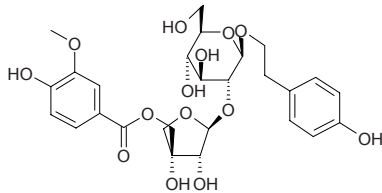
**17163 Phlogacanthoside C**

14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide 19-*O*-[2-(4-hydroxy-3,5-dimethoxybenzoyl)]- β -D-glucopyranoside $C_{35}H_{46}O_{13}$ (674.75). White powder, $[\alpha]_D^{25} = -137.1^\circ$ ($c = 0.14$, MeOH). Source: HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.000077%dw). Ref: 4799.

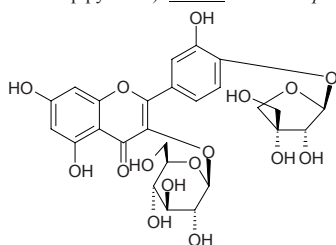


17164 Phlomisethanoside

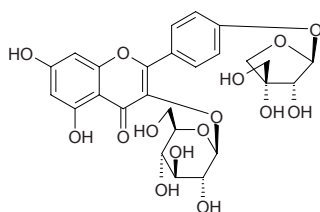
$C_{27}H_{34}O_{14}$ (582.56). Amorphous powder, $[\alpha]_D = -58.6^\circ$ ($c = 0.65$, MeOH).
 Source: DA HUA CAO SU *Phlomis grandiflora* var. *grandiflora*. Ref: 2287.

**17165 Phlomisflavoside A**

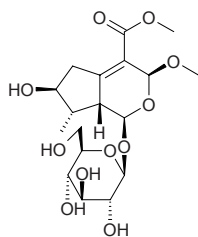
$C_{26}H_{28}O_{16}$ (596.50). Yellow amorphous powder, $[\alpha]_D^{21} = -140^\circ$ ($c = 0.55$, 50% aq. pyridine). Source: *Phlomis spinidens* (aerial parts). Ref: 4115.

**17166 Phlomisflavoside B**

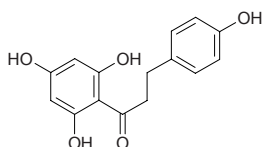
$C_{26}H_{28}O_{15}$ (580.50). Yellow amorphous powder, $[\alpha]_D^{22} = -93.5^\circ$ ($c = 0.64$, 50% aq. pyridine). Source: *Phlomis spinidens* (aerial parts). Ref: 4115.

**17167 Phlomurin**

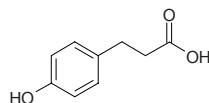
$C_{18}H_{28}O_{11}$ (420.42). $[\alpha]_D^{21} = +12.4^\circ$ ($c = 0.5$, MeOH). Source: JIN HUANG CAO SU *Phlomis aurea* (leaf). Ref: 5093.

**17168 Phloretin**

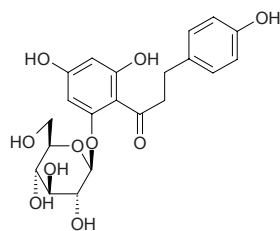
[60-82-2] $C_{15}H_{14}O_5$ (274.28). mp 262–264°C (dec). Pharm: Antibacterial; anti-inflammatory (COX-2 inhibitor, prevents COX-2 expression)^[4415]; platelet aggregation inhibitor^[4415]; induces lipid peroxidization (rat, brain mitochondria); iodine-induced thyronine deiodinase inhibitor; protein kinase C inhibitor; insect antifeedant (*Schizaphis graminum*). Source: NING MENG YE *Citrus limon*. Ref: 6, 658, 4415.

**17169 Phloretinic acid**

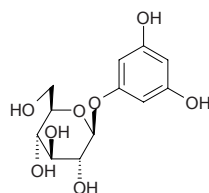
3-(4-Hydroxyphenyl)propanoic acid [501-97-3] $C_9H_{10}O_3$ (166.18). Fluorescent substance, prisms (Et₂O), mp 129–130°C, pKa = 4.76 (25°C). Pharm: Tyrosine kinase inhibitor (IC₅₀ = 64 μmol/L, interleukin-2 inducible T-cell kinase)^[5252]. Source: HUANG GAN CAO *Glycyrrhiza kansuensis*, MO LEI NAN YANG SHEN *Polyscias murrayi*, PENG ZI CAI *Galium verum*, PING GUO *Malus pumila*. Ref: 660, 1521, 5252.

**17170 Phloridzin**

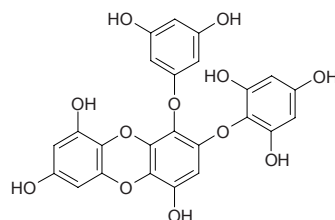
[60-81-1] $C_{21}H_{24}O_{10}$ (436.42). Pharm: Diabetogenic; insect antifeedant (*Schizaphis graminum*, *Myzus persicae*). Source: KUAN YE SHAN YUE GUI *Kalmia latifolia*, RI BEN MA ZUI MU *Pieris japonica*, *Rhododendron* sp., *Malus* sp. Ref: 658.

**17171 Phlorin**

1,3,5-Trihydroxybenzene 1-*O*-β-*D*-glucoside [28217-60-9] $C_{12}H_{16}O_8$ (288.26). mp 231–233°C. Pharm: α2-Macroglobulin inhibitor. Source: AN MO LE *Phyllanthus emblica* (root)^[3065], JI SU ZI *Cornus capitata* [Syn. *Dendrobenthamia capitata*], TIAN CHENG *Citrus sinensis*. Ref: 6, 3065.

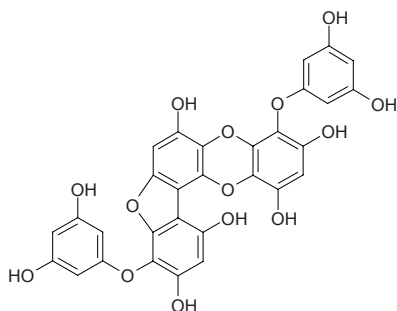
**17172 2-*O*-Phloroeckol**

[89444-89-3] $C_{24}H_{16}O_{12}$ (496.38). Crystals, mp 206–207°C. Pharm: Insect growth inhibitor; α2-macroglobulin inhibitor. Source: HEI KUN BU *Ecklonia kurome*. Ref: 955.

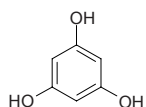


17173 Phlorofucofuroeckol A

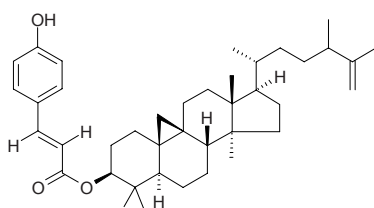
[128129-56-6] C₃₀H₁₈O₁₄ (602.47). Amorphous solid. **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 4.6 μmol/L, control Ascorbic acid, IC₅₀ = 10.3 μmol/L)^[4376]. **Source:** HEI KUN BU *Ecklonia kurome*, Brown alga *Ecklonia stolonifera*. **Ref:** 3204, 4376.

**17174 Phloroglucinol**

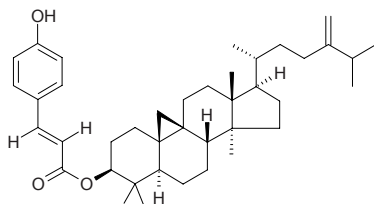
1,3,5-Trihydroxybenzene [108-73-6] C₆H₆O₃ (126.11). Leaflets or plates +2H₂O (H₂O), mp 117°C (dihydrate), mp 217~219°C (anhydrate, rapid heat), mp 200~209°C (anhydrate, slow heat), pK_{a1} = 7.97; pK_{a2} = 9.23 (20°C). **Pharm:** Antispasmodic; cytotoxic (Colon26-L5, ED₅₀ = 26.4 μmol/L; HT1080, ED₅₀ = 20.9 μmol/L)^[3042]. **Source:** A LA BO JIN HE HUAN *Acacia arabica*, LV SONG QIU MAO *Mallotus philippinensis*, PING GUO *Malus pumila*, YANG CONG *Allium cepa*, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00065%), *Eucalyptus kino*. **Ref:** 6, 658, 660, 1521, 3042.

**17175 Pholidotanin**

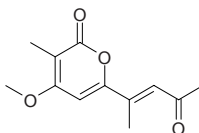
25-Methylenecycloartanyl-*p*-hydroxy-*trans*-cinnamate C₄₀H₅₈O₃ (586.91). White acicular crystals, mp 202~204°C, [α]_D¹⁴ = +45.6° (c = 0.19, chloroform). **Source:** YUN NAN SHI XIAN TAO *Pholidota yunnanensis*. **Ref:** 478.

**17176 Pholidotin**

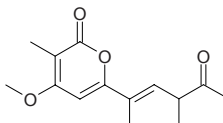
C₄₀H₅₈O₃ (586.91). Crystals, mp 196°C, [α]_D = +5.54° (chloroform). **Source:** HONG SHI XIAN TAO *Pholidota rubra*. **Ref:** 659.

**17177 Phomapyrone D**

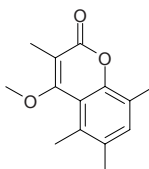
C₁₂H₁₄O₄ (222.24). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5246.

**17178 Phomapyrone E**

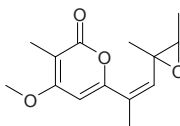
C₁₄H₁₈O₄ (250.30). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5246.

**17179 Phomapyrone F**

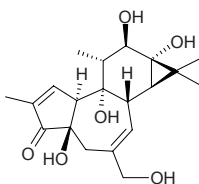
C₁₄H₁₆O₃ (232.28). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5246.

**17180 Phomapyrone G**

C₁₄H₁₈O₄ (250.30). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5246.

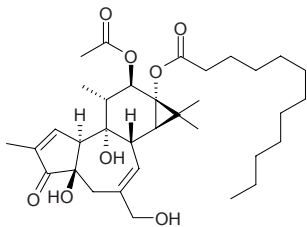
**17181 Phorbol**

4β,9α,12β,13α,20-Pentahydroxy-1,6-tigliadien-3-one [17673-25-5] C₂₀H₂₈O₆ (364.44). Crystals +MeOH (MeOH), mp 240~250°C, 250~251°C (dec, solvent free), [α]_D²⁰ = +118° (c = 0.4, dioxane). **Pharm:** Irritant (skin); Esters are potent tumor-promoting agents **Source:** BA DOU *Croton tiglium*, BEI MEI HONG SHAN *Sequoia sempervirens*, HONG JIAN QIU LUO *Lychnis dioica*, JU SHAN *Sequoia gigantea*, YANG CONG *Allium cepa*, *Euphorbia* spp., *Sapium* spp. **Ref:** 2, 1521.

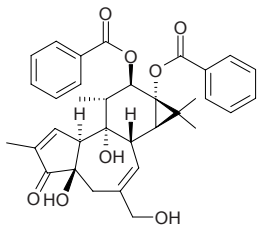


17182 Phorbol-12-acetate-13-laurate

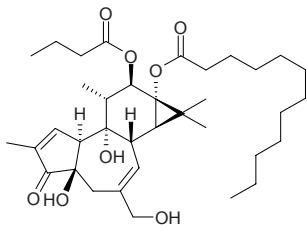
$C_{34}H_{52}O_8$ (588.79). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17183 Phorbol-12-benzoate-13-benzoate**

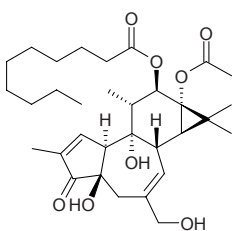
$C_{34}H_{36}O_8$ (572.66). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17184 Phorbol-12-butyrate-13-laurate**

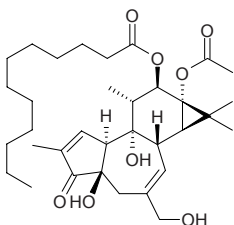
$C_{36}H_{56}O_8$ (616.84). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17185 Phorbol-12-caprate-13-acetate**

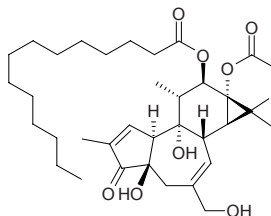
$C_{32}H_{48}O_8$ (560.73). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17186 Phorbol-12-laurate-13-acetate**

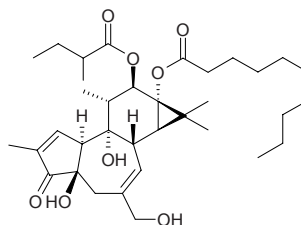
$C_{34}H_{52}O_8$ (588.79). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17187 Phorbol-4-methoxy-12-myristate-13-acetate**

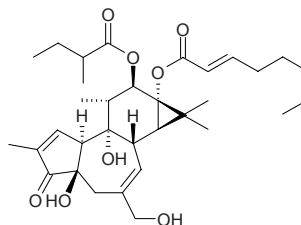
12-Tetradecanoylphorbol 13-acetate $C_{36}H_{56}O_8$ (616.84). [Pharm](#): Carcinogen assistant; irritant; anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 0.00048 \mu\text{g/mL}$, $CC_0 = 31.3 \mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9 \mu\text{g/mL}$, $CC_0 > 1000 \mu\text{g/mL}$)^[3921]; PKC activator (10ng/mL, activity rate = 96%)^[3921]. [Source](#): BA DOU *Croton tiglium*. [Ref](#): 658, 660, 3921.

**17188 Phorbol-12-α-methylbutyrate-13-caprate**

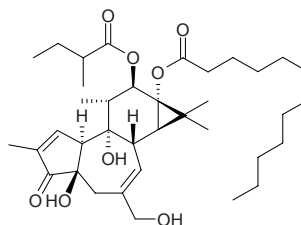
$C_{35}H_{54}O_8$ (602.82). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17189 Phorbol-12-α-methylbutyrate-13-caprylenate**

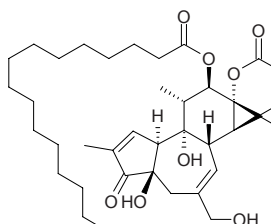
$C_{33}H_{48}O_8$ (572.75). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

**17190 Phorbol-12-α-methylbutyrate-13-laurate**

$C_{37}H_{58}O_8$ (630.87). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

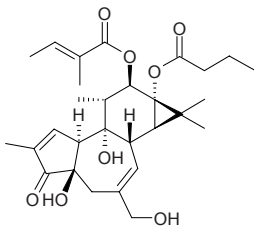
**17191 Phorbol-12-palmitate-13-acetate**

$C_{38}H_{60}O_8$ (644.90). [Source](#): BA DOU *Croton tiglium*. [Ref](#): 660.

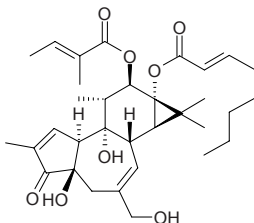


17192 Phorbol-12-tiglate-13-butyrate

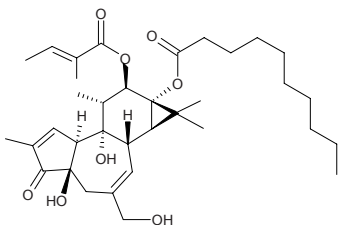
$C_{29}H_{40}O_8$ (516.64). Source: BA DOU *Croton tiglium*. Ref: 660.

**17193 Phorbol-12-tiglate-13-caprylate**

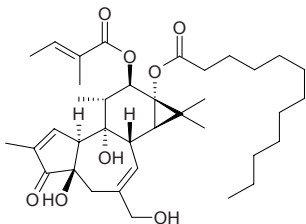
$C_{33}H_{46}O_8$ (570.73). Source: BA DOU *Croton tiglium*. Ref: 660.

**17194 Phorbol 12-tiglate 13-decanonate**

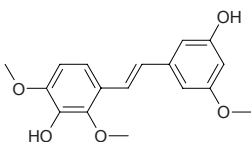
Phorbol-12-tiglate-13-caprate $C_{35}H_{52}O_8$ (600.80). Resinoid, $[\alpha]_D^{27} = +39^\circ$ ($c = 0.78$, dioxane). Pharm: Activates plasminogen; antineoplastic (mus P₃₈₈, 60~250mg/kg). Source: BA DOU *Croton tiglium*. Ref: 658, 660, 661.

**17195 Phorbol-12-tiglate-13-laurate**

$C_{37}H_{56}O_8$ (628.85). Source: BA DOU *Croton tiglium*. Ref: 660.

**17196 Phoyunbene A**

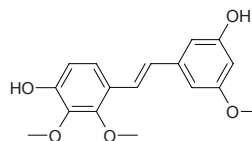
trans-3,3'-Dihydroxy-2',4',5-trimethoxystilbene $C_{17}H_{18}O_5$ (302.33). White needles, mp 170~171°C. Pharm: NO production inhibitor ($IC_{50} = 32.9\mu\text{mol/L}$ without cytotoxicity). Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb; yield = 0.0007%dw). Ref: 17.

**17197 Phoyunbene B**

trans-3,4'-Dihydroxy-2',3',5-trimethoxystilbene $C_{17}H_{18}O_5$ (302.33). Oil.

Pharm: NO production inhibitor ($IC_{50} = 7.5\mu\text{mol/L}$ without cytotoxicity).

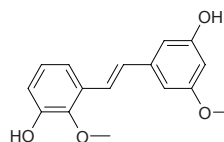
Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb; yield = 0.0037%dw). Ref: 17.

**17198 Phoyunbene C**

trans-3,3'-Dihydroxy-2',5-dimethoxystilbene $C_{16}H_{16}O_4$ (272.30). Oil. Pharm:

NO production inhibitor ($IC_{50} = 49.0\mu\text{mol/L}$ without cytotoxicity). Source:

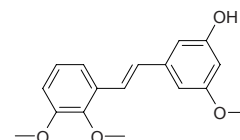
YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb; yield = 0.0077%dw). Ref: 17.

**17199 Phoyunbene D**

trans-3-Hydroxy-2',3',5-trimethoxystilbene(6) $C_{17}H_{18}O_4$ (286.33). Yellow

prisms, mp 128~129°C. Pharm: NO production inhibitor ($IC_{50} = 87.3\mu\text{mol/L}$

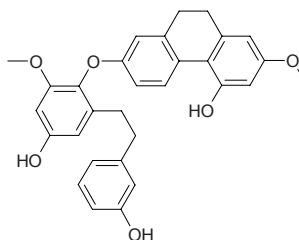
without cytotoxicity). Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb; yield = 0.0005%dw). Ref: 17.

**17200 Phoyunnanin A**

7-[2-(3-Hydroxyphenethyl)-4-hydroxy-6-methoxyphenoxy]-4-hydroxy-2-methoxy-9,10-dihydrophenanthrene $C_{30}H_{28}O_6$ (484.55). Amorphous powder.

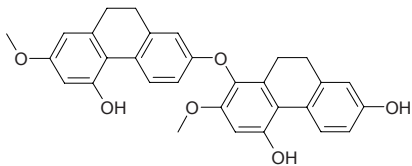
Pharm: NO production inhibitor (with cytotoxicity at the test concentration).

Source: YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb; yield = 0.0007%dw). Ref: 17.

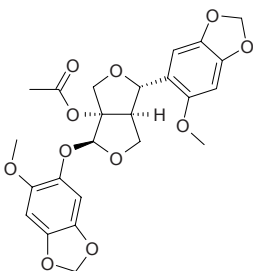


17201 Phoyunnanin B

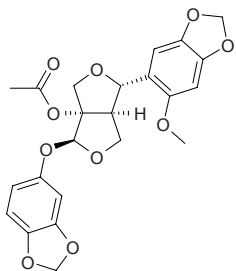
1-[(9,10-Dihydro-4-hydroxy-2-methoxy-7-phenanthrenyl)oxy]-4,7-dihydroxy-2-methoxy-9,10-dihydrophenanthrene C₃₀H₂₆O₆ (482.54). Amorphous powder. **Pharm:** NO production inhibitor (with cytotoxicity at the test concentration). **Source:** YUN NAN SHI XIAN TAO *Pholidota yunnanensis* (air-dried whole herb: yield = 0.0012%dw). **Ref:** 17.

**17202 Phrymarolin I**

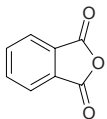
[38303-95-6] C₂₄H₂₄O₁₁ (488.46). **Pharm:** Synergist of pesticides. **Source:** TOU GU CAO *Speranskia tuberculata*, *Speranskia leptostachya* (in 1969, the compound was isolated from the plant)^[5505]. **Ref:** 658, 5505.

**17203 Phrymarolin II**

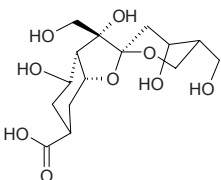
[23720-86-7] C₂₃H₂₂O₁₀ (458.43). mp 160~161°C. **Source:** LAO PO ZI ZHEN XIAN *Phryma leptostachya*. **Ref:** 6.

**17204 Phthalic anhydride**

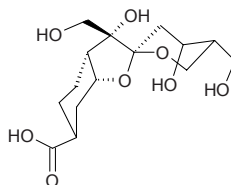
1,3-Phthalandione [85-44-9] C₈H₄O₃ (148.12). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

**17205 Phyllaemblic acid B**

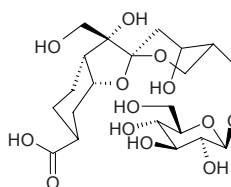
C₁₅H₂₄O₉ (348.35). Off-white amorphous powder, [α]_D¹⁷ = +58.7° (c = 0.46, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (root). **Ref:** 3065.

**17206 Phyllaemblic acid C**

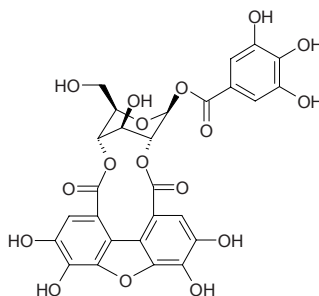
C₁₅H₂₄O₈ (332.35). Off-white amorphous powder, [α]_D¹⁷ = +80.6° (c = 0.32, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (root). **Ref:** 3065.

**17207 Phyllaemblicin D**

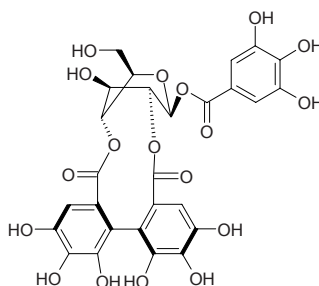
C₂₁H₃₄O₁₃ (494.50). Off-white amorphous powder, [α]_D¹⁷ = +32.5° (c = 0.31, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (root). **Ref:** 3065.

**17208 Phyllanemblinin A**

1-*O*-Galloyl-2,4-tetrahydroxydibenzofurancarboxyl-β-*D*-glucose C₂₇H₂₀O₁₇ (616.45). Off-white amorphous powder, [α]_D²² = -103.0° (c = 0.21, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice). **Ref:** 3094.

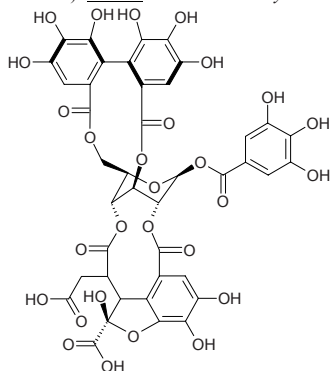
**17209 Phyllanemblinin B**

1-*O*-Galloyl-2,4-(*R*)-HHDP-β-*D*-glucose C₂₇H₂₂O₁₈ (634.47). White amorphous powder, [α]_D²² = -39.5° (c = 0.18, MeOH). **Source:** AN MO LE *Phyllanthus emblica* (leaf, branch). **Ref:** 3094.

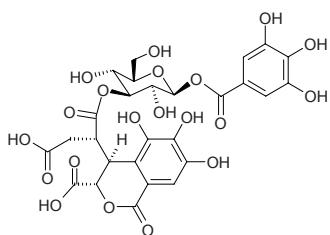


17210 Phyllanemblinin C

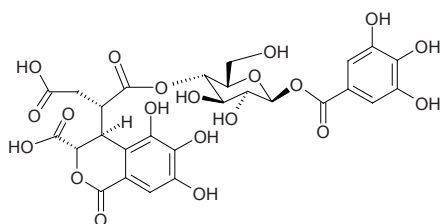
$C_{41}H_{30}O_{28}$ (970.68). Off-white amorphous powder, $[\alpha]_D^{22} = -26.0^\circ$ ($c = 0.13$, MeOH). Source: AN MO LE *Phyllanthus emblica* (leaf, branch). Ref: 3094.

**17211 Phyllanemblinin D**

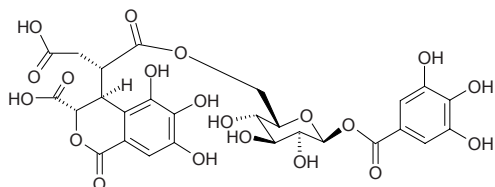
$C_{27}H_{26}O_{20}$ (670.5). White amorphous powder, $[\alpha]_D^{22} = -7.9^\circ$ ($c = 0.33$, MeOH). Source: AN MO LE *Phyllanthus emblica* (leaf, branch). Ref: 3094.

**17212 Phyllanemblinin E**

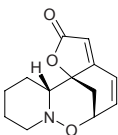
$C_{27}H_{26}O_{20}$ (670.5). White amorphous powder, $[\alpha]_D^{22} = -8.3^\circ$ ($c = 0.36$, MeOH). Source: AN MO LE *Phyllanthus emblica* (leaf, branch). Ref: 3094.

**17213 Phyllanemblinin F**

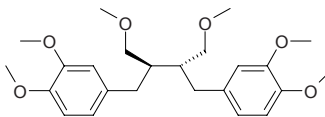
$C_{27}H_{26}O_{20}$ (670.5). White amorphous powder, $[\alpha]_D^{22} = -18.3^\circ$ ($c = 0.17$, MeOH). Source: AN MO LE *Phyllanthus emblica* (leaf, branch). Ref: 3094.

**17214 ent-Phyllanthidine**

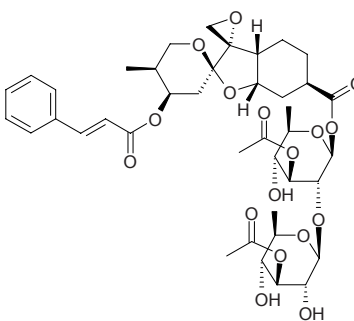
$C_{13}H_{15}NO_3$ (233.27). White needles (petroleum ether–acetone), mp 169–170°C, $[\alpha]_D^{20} = +300^\circ$ ($c = 0.1$, $CHCl_3$). Source: YI YE QIU *Securinega suffruticosa* (branch leaf). Ref: 4818.

**17215 Phyllanthin**

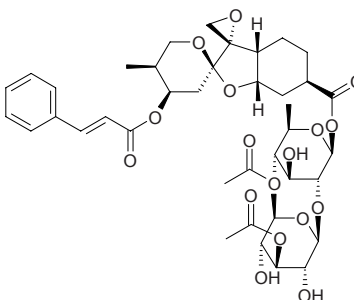
[10351-88-9] $C_{24}H_{34}O_6$ (418.54). Pharm: Bitter principle. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 658.

**17216 Phyllanthoside**

[63166-73-4] $C_{40}H_{52}O_{17}$ (804.85). Amorphous solid, mp 125–127°C, $[\alpha]_D^{22} = +16.9^\circ$ ($c = 0.71$, $CHCl_3$). Pharm: Antineoplastic (mus: melanotic carcinoma B16, 8mg/kg, cure rate = 12%, 4–16mg/kg, biotic prolonged rate = 62%–90%, P_{388} high activity; in stage of pre-clinic at NCI); antiviral (*in vivo*: mus genital, vagina administration, 1mg/mL tid, inhibits infection of herpes simplex virus 2; *in vitro*: cellculture, inhibits herpes simplex virus, vesicular stomatitis virus VSV, Gesak virus). Source: JIAN YE YE XIA ZHU *Phyllanthus acuminatus*. Ref: 3620, 3621, 3622.

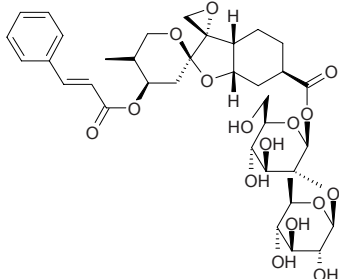
**17217 Phyllanthostatin 1**

[82209-93-6] $C_{40}H_{52}O_{17}$ (804.85). Amorphous solid, mp 125–126°C, $[\alpha]_D^{26} = -3.6^\circ$ ($c = 0.83$, $CHCl_3$). Pharm: Antineoplastic (mus: melanotic carcinoma B16, 6–48mg/kg, biotic prolonged rate = 52%–90%, P_{388} high activity); antiviral (*in vivo*: mus genital, inhibits infection of herpes simplex virus 2; *in vitro*: cellculture, inhibits herpes simplex virus, vesicular stomatitis virus VSV, Gesak virus). Source: JIAN YE YE XIA ZHU *Phyllanthus acuminatus*. Ref: 3620, 3621, 3622.

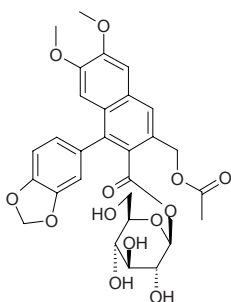


17218 Phyllanthostatin 6

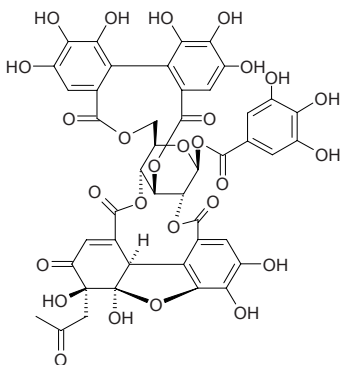
[132282-94-1] C₃₆H₄₈O₁₆ (736.77). Amorphous solid, mp 136–139°C, [α]_D²⁵ = +12.0° (*c* = 0.25, CH₂Cl₂). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 0.35 μg/mL). **Source:** JIAN YE YE XIA ZHU *Phyllanthus acuminatus*. **Ref:** 3700.

**17219 Phyllanthostatin A**

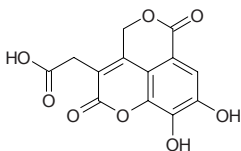
[119767-19-0] C₂₉H₃₀O₁₃ (586.56). **Pharm:** Inhibits activity of cells. **Source:** JIAN YE YE XIA ZHU *Phyllanthus acuminatus*. **Ref:** 658.

**17220 Phyllanthusiin D**

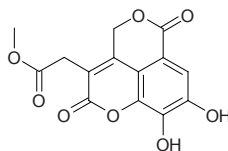
Acetonylgeraniin A [133145-19-4] C₄₄H₃₂O₂₇ (992.71). Colorless acicular crystals, mp 245–247°C (water–methanol). **Pharm:** Antiulcerative (mus, stomach ulcer induced by stress reaction of cold); increases blood pressure; reverses standing low blood pressure (conscious SHR rat, induced by hexamethonium); regulates cAMP level and hydrochloric acid in gastric juice. **Source:** LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*]. **Ref:** 900.

**17221 Phyllanthusiin E**

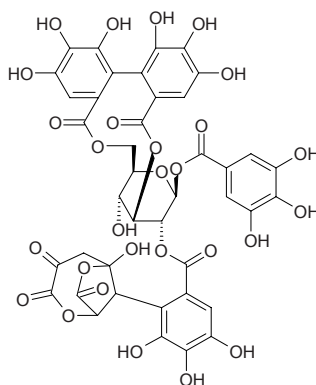
C₁₃H₈O₈ (292.20). White amorphous powder. **Source:** SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). **Ref:** 3975.

**17222 Phyllanthusiin E methyl ester**

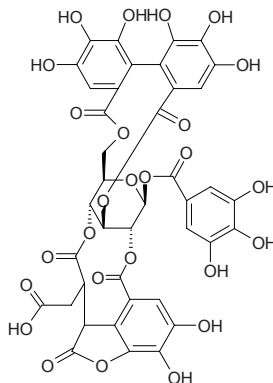
C₁₄H₁₀O₈ (306.23). White amorphous powder, mp 158–160°C. **Source:** SHEN YE TIAN ZHU KUI *Pelargonium reniforme* (aerial parts). **Ref:** 3975.

**17223 Phyllanthusiin G**

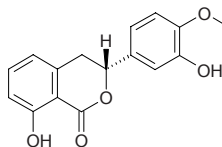
C₄₁H₃₀O₂₈ (970.68). Light yellow-brown amorphous powder, mp 270°C (dec, EtOH-H₂O), [α]_D²⁵ = +23.1° (*c* = 0.65, H₂O-acetone). **Source:** YE XIA ZHU *Phyllanthus urinaria* (fresh whole herb). **Ref:** 4832.

**17224 Phyllanthusiin U**

1-*O*-Galloyl-3,6-*O*-HHDP-2,4-*O*-dehydroxymethyl-chebuloyl- β -*D*-glucopyranos C₄₀H₂₈O₂₆ (924.65). Yellowish amorphous powder, mp 270°C (dec), [α]_D = -77° (*c* = 0.6, MeOH). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 680.

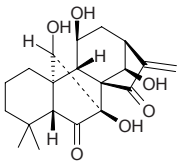
**17225 Phyllostulcin**

[480-46-6] C₁₆H₁₄O₅ (286.29). **Pharm:** Antifungal. **Source:** SE BO GE XIU QIU *Hydrangea macrophylla* var. *thunbergii* (in 1916, the compound was isolated from the plant)^[5505]. **Ref:** 658, 5505.

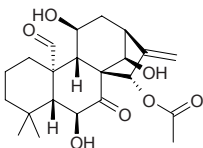


17226 Phyllostachysin A

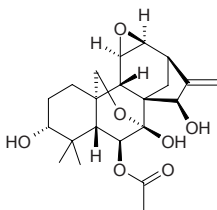
$C_{20}H_{26}O_6$ (362.43). mp 264–265°C, $[\alpha]_D^{20} = -30.5^\circ$ ($c = 1.25$, C_5H_5N). Source: YE SUI XIANG CHA CAI *Isodon phyllostachys*. Ref: 4067.

**17227 Phyllostachysin B**

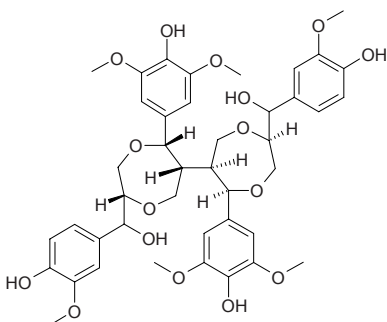
$C_{22}H_{30}O_7$ (406.48). mp 213–215°C. Source: YE SUI XIANG CHA CAI *Isodon phyllostachys*. Ref: 4067.

**17228 Phyllostachysin C**

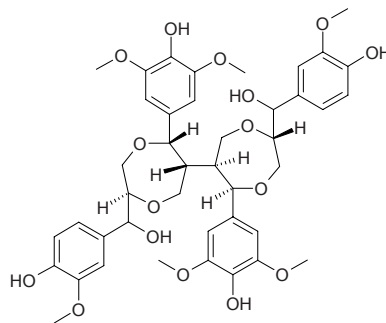
$C_{22}H_{30}O_7$ (406.48). mp 203–205°C, $[\alpha]_D^{13} = -102.0^\circ$ ($c = 0.55$, C_5H_5N). Source: YE SUI XIANG CHA CAI *Isodon phyllostachys*. Ref: 4067.

**17229 Phyllostadimer A**

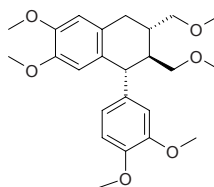
$C_{42}H_{50}O_{16}$ (810.86). Amorphous powder, mp 117–119°C, $[\alpha]_D = -4.0^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Antioxidant (liposomal lipid peroxidation inhibitor, ADP/Fe²⁺-induced, IC₅₀ = 15 μmol/L, control Vitamin E, IC₅₀ = 235 μmol/L)^[3475]. Source: MENG ZONG ZHU *Phyllostachys edulis* (bamboo stem). Ref: 3475.

**17230 Phyllostadimer B**

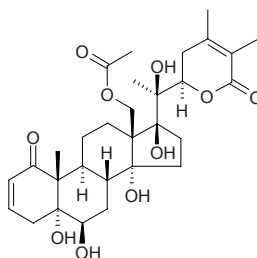
$C_{42}H_{50}O_{16}$ (810.86). Amorphous powder, mp 118–120°C, $[\alpha]_D = +19.0^\circ$ ($c = 1.0$, $CHCl_3$). Source: MENG ZONG ZHU *Phyllostachys edulis* (bamboo stem). Ref: 3475.

**17231 Phyltetralin**

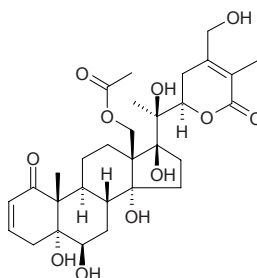
3',4',5,9,9'-Hexamethoxy-2,7'-cyclo lignan [123048-17-9] $C_{24}H_{32}O_6$ (416.52). mp 110–111°C, $[\alpha]_D^{30} = +17.5^\circ$ ($c = 0.16$, $CHCl_3$). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2676.

**17232 Physachenolide A**

$C_{30}H_{42}O_{10}$ (362.66). Colorless crystals, mp 204–205°C, $[\alpha]_D^{22} = +17.58^\circ$ ($c = 1.7$, MeOH). Source: *Physalis chenopodifolia* (flower, stem and leaf). Ref: 4922.

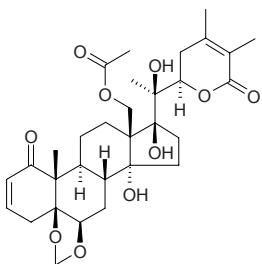
**17233 Physachenolide B**

$C_{30}H_{42}O_{11}$ (578.66). Colorless crystals (decompose on storage), mp 209–210°C, $[\alpha]_D^{22} = +62.09^\circ$ ($c = 1.53$, MeOH). Source: *Physalis chenopodifolia* (flower, stem and leaf). Ref: 4922.

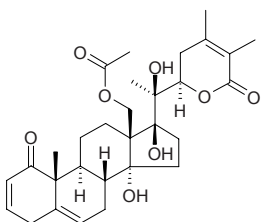


17234 Physachenolide C

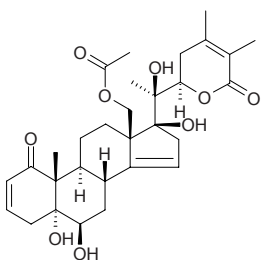
$C_{31}H_{42}O_{10}$ (574.67). Colorless crystals, mp 156–157°C. Source: *Physalis chenopodifolia* (flower, stem and leaf). Ref: 4922.

**17235 Physachenolide D**

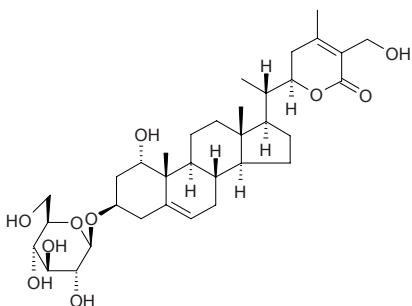
$C_{30}H_{40}O_8$ (528.65). Colorless crystals, mp 150–151°C, $[\alpha]_D^{25} = +17.5^\circ$ ($c = 2.05$, MeOH). Source: *Physalis chenopodifolia* (flower, stem and leaf). Ref: 4922.

**17236 Physachenolide E**

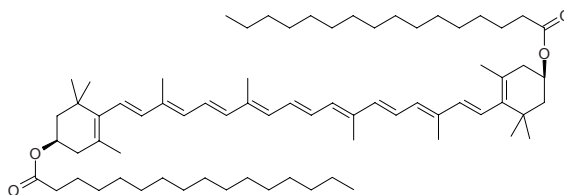
$C_{30}H_{40}O_9$ (544.65). Colorless crystals, mp 185–187°C, $[\alpha]_D^{25} = +7.77^\circ$ ($c = 0.9$, MeOH). Source: *Physalis chenopodifolia* (flower, stem and leaf). Ref: 4922.

**17237 Physagulin D**

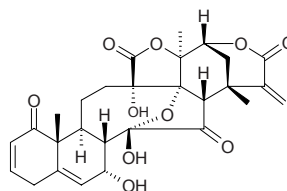
$C_{34}H_{52}O_{10}$ (620.79). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**17238 Physalien**

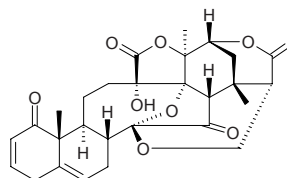
Zeaxanthin dipalmitate [144-67-2] $C_{72}H_{116}O_4$ (1045.72). Pharm: Yellow pigment. Source: GOU QI ZI *Lycium chinense*, GUA JIN DENG GEN *Physalis alkekengi* var. *franchetii*, MAO SUAN JIANG *Physalis pubescens*, NING XIA GOU QI ZI *Lycium barbarum*. Ref: 2, 658.

**17239 Physalin A**

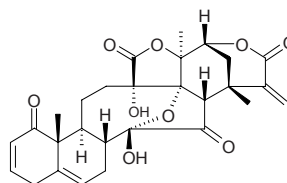
[23027-91-0] $C_{28}H_{30}O_{10}$ (526.55). mp 266°C. Pharm: Cytotoxic (mus, myelocytic leukemia M1, 50 μmol/L); inducing cell differentiation activity (mus, myelocytic leukemia M1, 10 μmol/L, 50% M1 cells differentiate to macrophage). Source: SUAN JIANG *Physalis alkekengi*. Ref: 6, 1703.

**17240 Physalin B**

[23133-56-4] $C_{28}H_{30}O_9$ (510.55). mp 250°C (acetone), 271°C (methanol). Pharm: Antineoplastic (mouse, leukemia 3PS, 300 mg/kg, T/C = 137%); cytotoxic (mouse lymph leukemia 9PS ED₅₀ = 0.01 μg/mL, 9KB ED₅₀ = 3.1 μg/mL; hmn leukemia cells HL-60, KG-1, CTV1, K562, APM1840); anti-inflammatory (modulator of cytokine network: inhibits generation of TNF-α, IL-6 and IL-12 in macrophages stimulated with LPS and IFNγ, IC₅₀ < 2 μg/mL; also reduces levels of TNF-α in the serum of LPS-treated mouse, 0.5 mg/mouse)^[4416]. Source: SUAN JIANG *Physalis alkekengi*, KU ZHI *Physalis angulata*. Ref: 6, 1722, 1723, 1724, 4416.

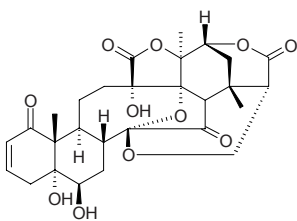
**17241 Physalin C**

[27503-33-9] $C_{28}H_{30}O_9$ (510.55). mp 274–277°C. Source: SUAN JIANG *Physalis alkekengi*. Ref: 6.

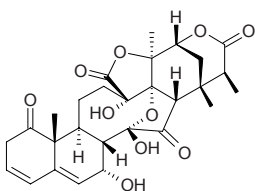


17242 Physalin D

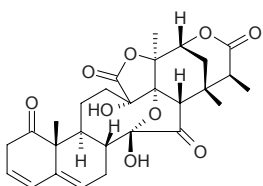
[54980-22-2] C₂₈H₃₂O₁₁ (544.56). Source: SUAN JIANG *Physalis alkekengi*.
Ref: 6.

**17243 Physalin L**

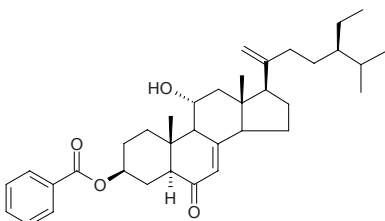
[113146-74-0] C₂₈H₃₂O₁₀ (528.56). Colorless prisms, mp 252~254°C (CHCl₃:MeOH = 1:1), [α]_D = -134° (c = 0.033, acetone). Pharm: Antineoplastic (50 μmol/L, inducing cell differentiation activity). Source: GUA JIN DENG *Physalis alkekengi* var. *franchetii*. Ref: 3623, 1703.

**17244 Physalin M**

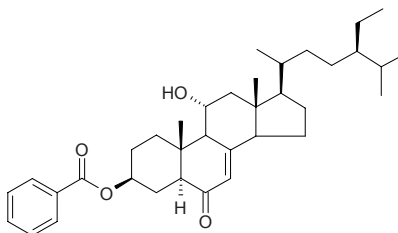
[117591-92-1] C₂₈H₃₂O₉ (512.56). Colorless prisms, mp 224~227°C, [α]_D²⁴ = -106° (c = 0.34, acetone). Pharm: Cytotoxic (HeLa, IC₅₀ = 27.6 μg/mL). Source: GUA JIN DENG *Physalis alkekengi* var. *franchetii*. Ref: 3735.

**17245 Physanol A**

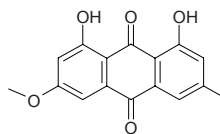
[54615-35-9] C₃₆H₅₀O₄ (546.80). Crystals (CHCl₃-MeOH), mp 234~236°C, [α]_D = +60° (CHCl₃). Source: GUA JIN DENG *Physalis alkekengi* var. *franchetii*. Ref: 3205.

**17246 Physanol B**

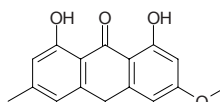
[54615-36-0] C₃₆H₅₂O₄ (548.81). Crystals (CHCl₃-MeOH), mp 232~233°C. Source: GUA JIN DENG *Physalis alkekengi* var. *franchetii*. Ref: 3205.

**17247 Physcion**

Emodin-3-monomethyl ether [521-61-9] C₁₆H₁₂O₅ (284.27). mp 206~207°C. Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*); mutagen (*Salmonella* TA1535); cytochrome P-450 inhibitor (slows NADPH's reduction to P-450, influence liver's metabolism to drugs); antioxidant inactive (DPPH scavenger, IC₅₀ > 100 μg/mL; control Ascorbic acid, IC₅₀ = 3.9 μg/mL)^[4711]; antioxidant inactive (DPPH scavenger assay)^[5232]; cytotoxic inactive (MCF, HM02, HepG2)^[5232]. Source: BA JI TIAN *Morinda officinalis*, DA HUANG *Rheum officinale*, DUN YE JUE MING *Cassia obtusifolia* (ripe seed: mean content = 0.0032%)^[5508], FAN XIE YE *Cassia angustifolia*, HE SHOU WU *Polygonum multiflorum* (dried tuberoid (raw): content scope of 8 batch samples = 0.004%~0.082%, mean content = 0.029%)^[5508], HE SHOU WU *Polygonum multiflorum* (dried tuberoid (preparing): content scope of 7 batch samples = 0.002%~0.095%, mean content = 0.067%)^[5508], HU ZHANG *Polygonum cuspidatum* (mean content = 0.228%)^[5508], JIAN YE FAN XIE YE *Cassia acutifolia*, JUE MING ZI *Cassia tora* (ripe seed: content = 0.0014%)^[5508], NI BO ER YANG TI *Rumex nepalensis*, NIU SHE CAO *Rumex dentatus* (root: mean content = 0.0249%)^[5508], NIU XI XI *Rumex patientia* (root: mean content = 0.0587%)^[5508], SUAN MO *Rumex acetosa* (root: mean content = 0.1133%)^[5508], TANG GU TE DA HUANG *Rheum tanguticum*, WANG JIANG NAN ZI *Cassia occidentalis* (ripe seed: content = 0.0068%)^[5508], YANG TI *Rumex japonicus* (root: mean content = 0.0754%)^[5508], YE JIAO TENG *Polygonum multiflorum*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.23%dw)^[4711], ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 6, 608, 660, 4711, 5232, 5501, 5508.

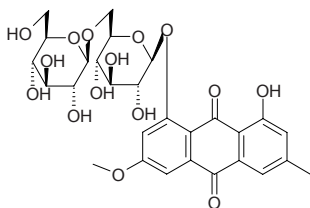
**17248 Physcion anthrone**

C₁₆H₁₄O₄ (270.29). Source: SUAN MO *Rumex acetosa*, Ref: 3206.

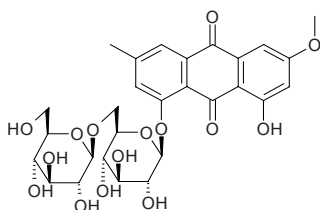


17249 Physciondiglucoside

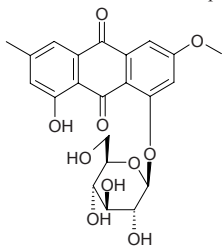
[84268-38-2] C₂₈H₃₂O₁₅ (608.56). Nacarat crystals (ethanol), mp 358~360°C, mp 221~223°C. **Pharm:** Laxative (mus, ori). **Source:** ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 900.

**17250 Physcion-8-O-β-D-gentiobioside**

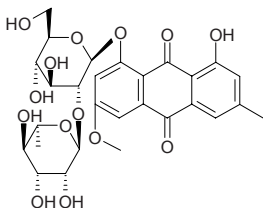
[84268-38-2] C₂₈H₃₂O₁₅ (608.56). **Source:** DA HUANG *Rheum officinale*, JUE MING ZI *Cassia tora*, TANG GU TE DA HUANG *Rheum tanguticum*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.083%dw)^[4711], ZHANG YE DA HUANG *Rheum palmatum*, ZHOU ZHI SHU LI *Rhamnus virgata*. **Ref:** 2, 658, 660, 4711.

**17251 Physcion-8-O-β-D-glucopyranoside**

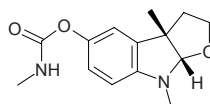
C₂₂H₂₂O₁₀ (446.42). **Pharm:** Laxative; antioxidant inactive (DPPH scavenger, IC₅₀ > 100μg/mL; control Ascorbic acid, IC₅₀ = 3.9μg/mL)^[4711]. **Source:** BO XI SHU LI *Rhamnus purshiana*, DA HUANG *Rheum officinale*, HU ZHANG *Polygonum cuspidatum*, TANG GU TE DA HUANG *Rheum tanguticum*, TIAN SHAN DA HUANG *Rheum wittrocki*, ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.53%dw)^[4711], ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 608, 658, 660, 4711.

**17252 Physcion-8-O-rhamnosyl-(1→2)-glucoside**

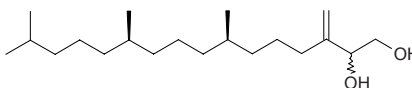
[132396-79-3] C₂₈H₃₂O₁₄ (592.56). Orange-yellow needles (CH₃OH), mp 174~176°C. **Pharm:** Cytotoxic (hmn hepatoma cell PLC/PRF/5, ED₅₀ = 2.50μg/mL, KB cell, ED₅₀ = 3.58μg/mL). **Source:** TAI WAN SHU LI *Rhamnus formosana*. **Ref:** 3624, 3625.

**17253 Physoveneine**

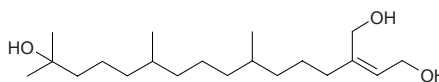
[6091-05-5] C₁₄H₁₈N₂O₃ (262.31). mp 123°C, [α]_D²² = -92° (EtOH). **Pharm:** Cholinesterase inhibitor; similar action with physostigmine; myotic agent (powerful). **Source:** DU BIAN DOU *Physostigma venenosum*. **Ref:** 658, 1521.

**17254 Phytene-1,2-diol**

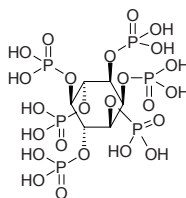
C₂₀H₄₀O₂ (312.54). Colorless oil. **Source:** HUANG HUA HAO *Artemisia annua* (seed). **Ref:** 3435.

**17255 2Z-Phytene-1,15,20-triol**

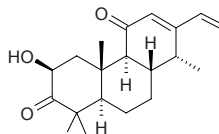
C₂₀H₄₀O₃ (328.54). Colorless oil, [α]_D²⁰ = -7.1° (c = 0.2, CHCl₃). **Source:** *Tylimanthus renifolius*. **Ref:** 3491.

**17256 Phytic acid**

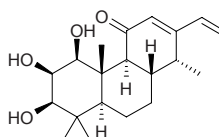
Myo-inositol hexaphosphate [83-86-3] C₆H₁₈O₂₄P₆ (660.04). **Source:** SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. **Ref:** 2.

**17257 Phytocassane A**

[166547-21-3] C₂₀H₂₈O₃ (316.44). Colorless mucus. **Pharm:** Antifungal (rice pathogenic fungus *Magnaporthe grisea*, ED₅₀ = 20μg/mL). **Source:** DAO CAO *Oryza sativa*. **Ref:** 1169.

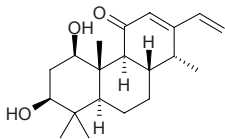
**17258 Phytocassane B**

[166547-22-4] C₂₀H₃₀O₄ (334.46). Colorless glue. **Pharm:** Antifungal (rice pathogenic fungus *Magnaporthe grisea*, inhibits sporular growth, ED₅₀ = 4μg/mL). **Source:** DAO CAO *Oryza sativa*. **Ref:** 1169.

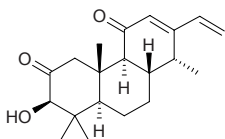


17259 Phytocassane C

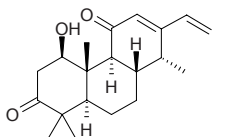
[166547-23-5] C₂₀H₃₀O₃ (318.46). Colorless glue. **Pharm:** Antifungal (rice pathogenic fungus *Magnaporthe grisea*, inhibits sporular growth, ED₅₀ = 7 μg/mL). **Source:** DAO CAO *Oryza sativa*. **Ref:** 1169.

**17260 Phytocassane D**

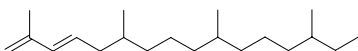
[166547-24-6] C₂₀H₂₈O₃ (316.44). Colorless glue. **Pharm:** Antifungal (rice pathogenic fungus *Magnaporthe grisea*, inhibits sporular growth, ED₅₀ = 25 μg/mL). **Source:** DAO CAO *Oryza sativa*. **Ref:** 1169.

**17261 Phytocassane E**

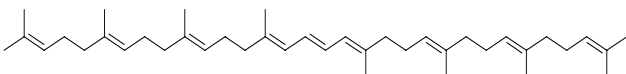
[181524-78-7] C₂₀H₂₈O₃ (316.44). Glue. **Pharm:** Antifungal (rice pathogenic fungus *Magnaporthe grisea*, inhibits sporular growth, ED₅₀ = 6 μg/mL). **Source:** DAO CAO *Oryza sativa*. **Ref:** 1169.

**17262 trans-1,3-Phytodiene**

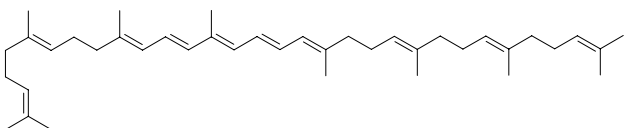
C₂₀H₃₈ (278.53). **Source:** FU PING *Lemna minor*. **Ref:** 3207.

**17263 Phytoene**

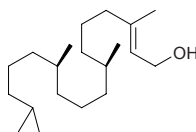
7,7',8,8',11,11',12,12'-Octahydrolycopene [540-04-5] C₄₀H₆₄ (544.96). Viscous oil with strong UV fluorescence. **Source:** FAN MU GUA *Carica papaya*, WAN SHOU JU *Tagetes erecta*, ZANG HONG HUA *Crocus sativus*, *Mycobacterium phlei*. **Ref:** 660, 1521.

**17264 Phytofluene**

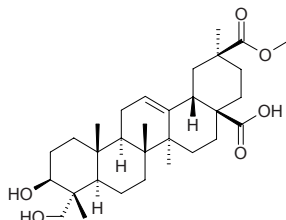
7,7',8,8',11,12-Hexahydrolycopene [540-05-6] C₄₀H₆₂ (542.94). Pale-yellow oil with brilliant green fluorescence. **Source:** FAN MU GUA *Carica papaya*, HU LUO BO *Daucus carota* var. *sativa*, JU YUAN *Citrus medica*, PI PA *Eriobotrya japonica*, SAN SE JIN *Viola tricolor*, WAN SHOU JU *Tagetes erecta*, XI GUA *Citrullus vulgaris* [Syn. *Citrullus lanatus*], YANG TAO *Averrhoa carambola*, ZANG HONG HUA *Crocus sativus*, *Neurospora* spp. **Ref:** 6, 660, 1521.

**17265 Phytol**

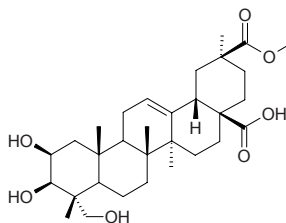
(E)-Phytol [150-86-7] C₂₀H₄₀O (296.54). bp 145°C/0.03mmHg. **Pharm:** Cytotoxic (HeLa, IC₅₀ = (13.8±1.3) μg/mL, control Camptothecin, IC₅₀ = 0.5 μmol/mL; HL-60, IC₅₀ = (16.4±2.0) μg/mL, Camptothecin, IC₅₀ = 0.1 μmol/mL; WI-38, IC₅₀ = (13.8±1.7) μg/mL, Camptothecin, IC₅₀ = 0.6 μmol/mL)^[3807]; raw material of synthesis of vitamins K₁ and E. **Source:** BAI MEI HUA *Prunus mume* (flower: yield = 0.0009%fw)^[4641], HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], QUN DAI CAI *Undaria pinnatifida*, YUAN CAN SHA *Bombyx mori*, ZAN BI XI BA DOU *Croton zambesicus* (leaf). **Ref:** 6, 658, 2537, 3807, 4641.

**17266 Phytolaccagenic acid**

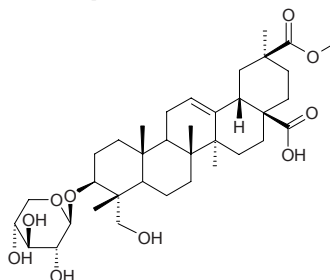
Phytolaccinic acid [54928-05-1] C₃₁H₄₈O₆ (516.72). Crystals (EtOAc), mp 295–299°C, [α]_D²⁵ = –66.5° (c = 1, MeOH). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 3208.

**17267 Phytolaccagenin**

[1802-12-6] C₃₁H₄₈O₇ (532.72). Crystals (MeOH), mp 317–318°C (dec), [α]_D²⁶ = +113.7° (c = 0.89, MeOH). **Pharm:** Anti-inflammatory. **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], *Phytolacca* spp. **Ref:** 660, 1521.

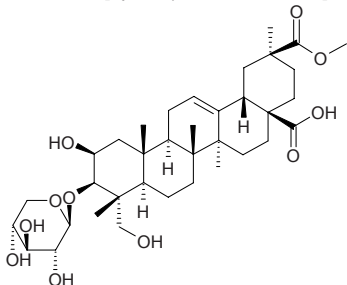
**17268 Phytolaccoside A**

[65608-00-6] C₃₆H₅₆O₁₀ (648.84). mp 273–274°C, [α]_D = +56.5° (c = 0.14, MeOH). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 3106, 3108.

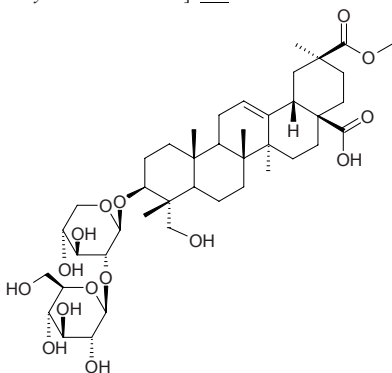


17269 Phytolaccoside B

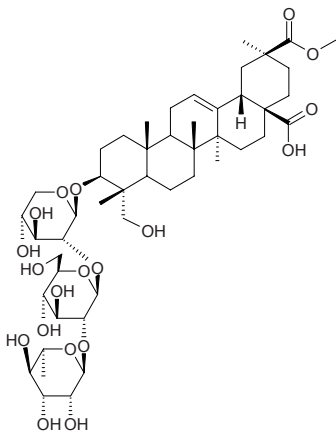
Phytolaccasaponin G [60820-94-2] C₃₆H₅₆O₁₁ (664.84). **Pharm:** Ectoparasiticide; molluscicide. **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 658, 1521.

**17270 Phytolaccoside D₂**

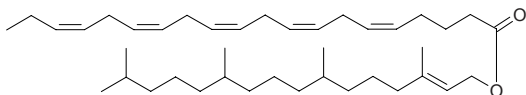
C₄₂H₆₆O₁₅ (810.99). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 3108.

**17271 Phytolaccoside F**

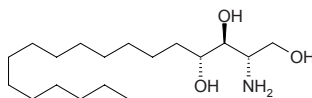
C₄₈H₇₆O₁₉ (957.13). **Source:** MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. **Ref:** 3108.

**17272 (E)-Phytol(5Z,8Z,11Z,14Z,17Z)-eicosapentaenoate**

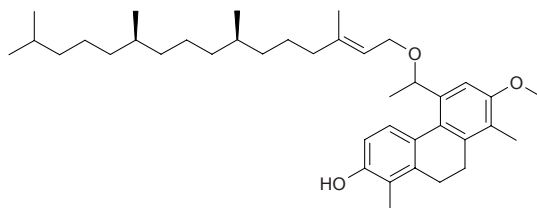
[94035-77-5] C₄₀H₆₈O₂ (580.99). Colorless oil. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Staphylococcus epidermidis* and *Salmonella typhimurium*, inhibits markedly). **Source:** TUO YUAN ZHOU XING ZAO *Navicula delognei* f. *elliptica*. **Ref:** 3736.

**17273 Phytosphingosine**

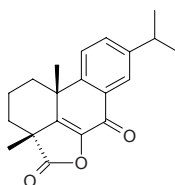
[15639-50-6] C₁₈H₃₉NO₃ (317.52). mp 108°C, [α]_D²⁸ = -14.1° (CHCl₃). **Source:** HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*]. **Ref:** 660, 1521.

**17274 5-(1-Phytoxy-ethyl)-2-hydroxy-7-methoxy-1,8-dimethyl-9,10-dihydrophenanthrene**

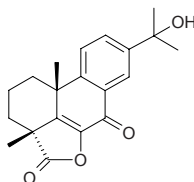
C₃₉H₆₀O₃ (576.91). **Source:** JIAN DENG XIN CAO *Juncus acutus*. **Ref:** 1965.

**17275 Picelactone A**

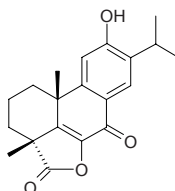
C₂₀H₂₂O₃ (310.40). Amorphous solid, [α]_D²⁰ = +14.5° (c = 0.45, CHCl₃). **Source:** TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). **Ref:** 4054.

**17276 Picelactone B**

C₂₀H₂₂O₄ (326.40). Amorphous solid, [α]_D¹⁹ = +23.5° (c = 0.25, CHCl₃). **Source:** TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). **Ref:** 4054.

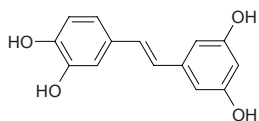
**17277 Picelactone C**

C₂₀H₂₂O₄ (326.40). Amorphous solid, [α]_D²⁶ = +20.1° (c = 0.17, CHCl₃). **Source:** TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). **Ref:** 4054.

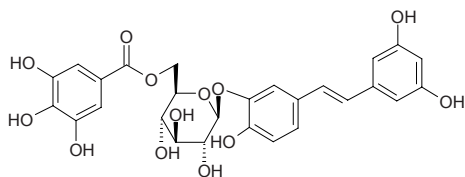


17278 E-Piceatannol

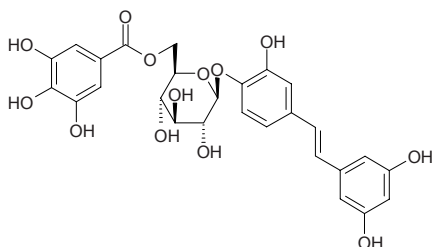
3,5,3',4'-Tetrahydroxystilbene [10083-24-6] C₁₄H₁₂O₄ (244.25). Yellowish crystals, mp 229°C; 222–223°C; needles (EtOAc–hexane), mp 231–232°C, 216°C. **Pharm:** Antineoplastic; antifungal; coronary vasodilator (gpg, ED₅₀ = 13.0 μg/heart); antihistamine (inhibits histamine release, rat); antioxidant (superoxide anion scavenger, inhibits lipid peroxidation); antioxidant (superoxide anion scavenger (IC₅₀ = (4.66±0.14) μmol/L, positive control (+)-Catechin, IC₅₀ = (3.67±0.14) μmol/L)^[4514]; aromatic L-amino-acid decarboxylase inhibitor (IC₅₀ = 5 μmol/L); lipoxygenase inhibitor (10 μmol/L, LTC₄ in leukemia basophiles, InRt = 100%, PGD₂ formation in leukemia basophiles, InRt = 75%); monoamine oxidase A inhibitor; antihypertensive (rat); plant growth inhibitor; supertoxic agent. **Source:** CHANG HUA BAN KE YA SHU *Vouacapoua macropetala*, FANG JI YE BA QIA *Smilax menispermoidea*, MAO CI JIN JI ER *Caragana tibetica* (stem), TIAN SHAN DA HUANG *Rheum wittrockii*, OU ZHOU YUN SHAN *Picea abies*, *Pericopsis angolensis*, SI CHUAN CHAN DA HUANG *Rheum* sp.^[2969], YU DA HUANG *Rheum* sp.^[4064]. **Ref:** 609, 900, 1521, 2834, 2969, 4064, 4514.

**17279 Piceatannol 3'-O-β-D-(6''-O-galloyl)glucopyranoside**

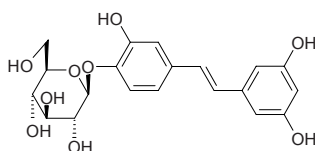
C₂₇H₂₆O₁₃ (558.50). **Source:** YU DA HUANG *Rheum* sp.^[4064]. **Ref:** 2834, 4064.

**17280 Piceatannol 4'-O-(6''-O-galloyl)β-D-glucopyranoside**

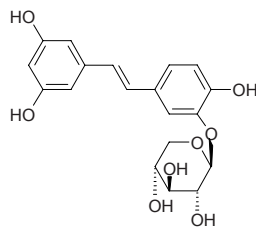
C₂₇H₂₆O₁₃ (558.50). **Source:** SI CHUAN CHAN DA HUANG *Rheum* sp.^[2969]. **Ref:** 2969.

**17281 Piceatannol 4'-O-β-D-glucopyranoside**

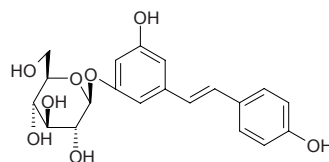
C₂₀H₂₂O₉ (406.39). **Source:** SI CHUAN CHAN DA HUANG *Rheum* sp.^[2969]. **Ref:** 2969.

**17282 Piceatannol 3'-O-β-D-xylopyranoside**

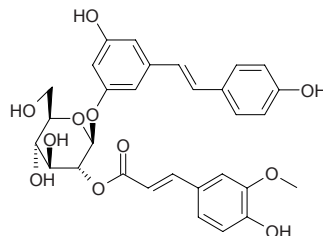
C₁₉H₂₀O₈ (376.37). **Source:** YU DA HUANG *Rheum* sp.^[4064]. **Ref:** 2834, 4064.

**17283 Piceid**

Polydatin; Resveraltrol 3-O-β-D-glucopyranoside [27208-80-6] C₂₀H₂₂O₈ (390.39). White needles, mp 219–223°C (220–225°C, 225–226°C, 229–231°C), [α]_D²⁵ = –59.9° (c = 0.25, MeOH); [α]_D²⁵ = –65.26°, [α]_D²⁰ = –61.0° (c = 0.02, CH₃OH). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Diplococcus pneumoniae*); antitussive (mus, cat); vasodilator (rat aortic rings, inhibits phenylephrine-induced vasoconstriction in the presences of indomethacin and N^o-L-nitroarginine (L-NA) at 10 μmol/L Ach, 10 μmol/L, relaxation = (65±2)%, control SNP, relaxation = (109±5)%)^[4086]; platelet aggregation inhibitor (2.5 μg/mL collagen-induced, IC₅₀ = (41.8±2.2) μmol/L, p < 0.01, control *trans*-Resveratrol, IC₅₀ = (11.6±2.1) μmol/L, p < 0.01; 6 μmol/L ADP-induced, IC₅₀ = (91.9±6.7) μmol/L, p < 0.01, *trans*-Resveratrol, IC₅₀ = (17.8±3.3) μmol/L, p < 0.01)^[5094]; antioxidant (DPPH radical scavenger, IC₅₀ = 82.4 μmol/L, control Vitamin E, IC₅₀ = 20.7 μmol/L, control BHT, IC₅₀ = 12.6 μmol/L)^[3452]; antioxidant (superoxide anion scavenger, 100 μmol/L, InRt < 50%, control Vitamin E, 100 μmol/L, InRt < 50%, control BHT, IC₅₀ = 24.6 μmol/L)^[3452]; antioxidant (lipid peroxidation inhibitor, IC₅₀ = 67.2 μmol/L, control Vitamin E, IC₅₀ = 5.3 μmol/L, control BHT, IC₅₀ = 1.0 μmol/L)^[3452]. **Source:** HE SHOU WU *Polygonum multiflorum*, HU ZHANG *Polygonum cuspidatum* (rhizome: content scope of 15 origins = 1.20%~3.63%, mean content = 2.23%)^[5508], MAO MAI LIAO *Pleuropterus ciliinervis*, QING MEI *Vatica rassak* (stem cortex), SA HA LIN YUN SHAN *Picea glehnii*, TANG GU TE DA HUANG *Rheum tanguticum*, WEI JING BAI HE *Schoenocaulon officinale* (rhizome), YI HUA *Lysidice rhodostegia* (root), ZHANG YE DA HUANG *Rheum palmatum*, *Rheum palaestinum* (aerial parts), *Eucalyptus* sp. **Ref:** 2, 658, 660, 3452, 3950, 4086, 4186, 4210, 5094, 5501, 5508.

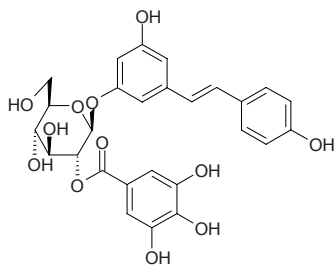
**17284 Piceid 2'-O-E-ferulate**

C₃₀H₃₀O₁₁ (566.57). White amorphous powder, [α]_D = –13° (c = 0.20, MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 3834.

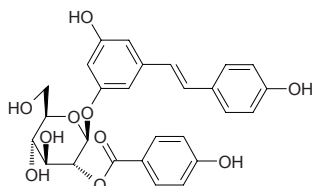


17285 Piccid-2''-O-gallate

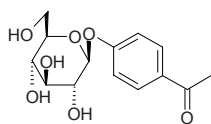
$C_{27}H_{26}O_{12}$ (542.50). White amorphous powder (MeOH-H₂O), $[\alpha]_D = -37.0^\circ$ ($c = 0.22$, MeOH). **Pharm:** Antioxidant (DPPH radical scavenger, $IC_{50} = 16.5\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 20.7\mu\text{mol/L}$, control BHT, $IC_{50} = 12.6\mu\text{mol/L}$)^[3452]; antioxidant (superoxide anion scavenger, $IC_{50} = 23.9\mu\text{mol/L}$, control Vitamin E, $100\mu\text{mol/L}$, InRt < 50%, control BHT, $IC_{50} = 24.6\mu\text{mol/L}$)^[3452]; antioxidant (lipid peroxidation inhibitor, $IC_{50} = 4.3\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 5.3\mu\text{mol/L}$, control BHT, $IC_{50} = 1.0\mu\text{mol/L}$)^[3452].
Source: MAO MAI LIAO *Pleuropterus ciliinervis*. **Ref:** 3452.

**17286 Piccid 2'-O-p-hydroxybenzoate**

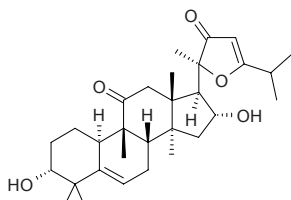
$C_{27}H_{26}O_{10}$ (510.50). White amorphous powder, $[\alpha]_D = -9^\circ$ ($c = 0.10$, MeOH).
Source: *Upuna borneensis* (stem). **Ref:** 3834.

**17287 Picein**

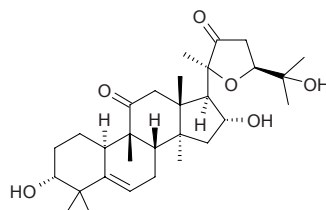
Piceoside [530-14-3] $C_{14}H_{18}O_7$ (298.30). Crystals +1H₂O (H₂O), mp 195°C, $[\alpha]_D = -88.9^\circ$ (H₂O). **Pharm:** Antihepatotoxin (rat, liver toxicosis induced by CCl₄ and GaIN, weak activity); antioxidant inactive (hydroxyl radical scavenger, $IC_{50} > 400\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} > 400\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$)^[4289]. **Source:** HU HUANG LIAN *Picrorhiza kurroa*, LIU ZHI *Salix babylonica*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root), *Amelanchier* spp., *Picea* spp. **Ref:** 1521, 3100, 4289.

**17288 Picfeltarraegenin I**

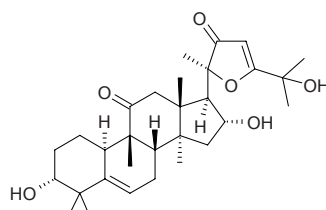
[82145-63-9] $C_{30}H_{44}O_5$ (484.68). Crystals, mp 209~210°C, $[\alpha]_D = +158.9^\circ$ ($c = 1$, MeOH). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3209.

**17289 Picfeltarraegenin II**

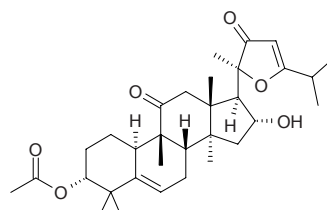
[82145-62-8] $C_{30}H_{46}O_6$ (502.70). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3210, 3211.

**17290 Picfeltarraegenin III**

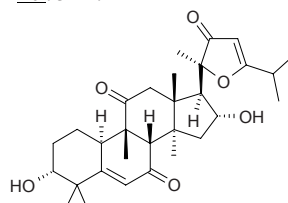
[80818-76-4] $C_{30}H_{44}O_6$ (500.68). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3210.

**17291 Picfeltarraegenin IV**

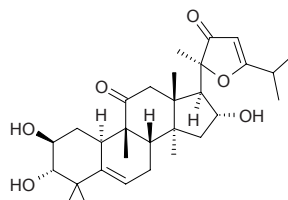
[82145-61-7] $C_{32}H_{46}O_6$ (526.72). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3354.

**17292 Picfeltarraegenin V**

[82452-27-5] $C_{30}H_{42}O_6$ (498.67). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3212.

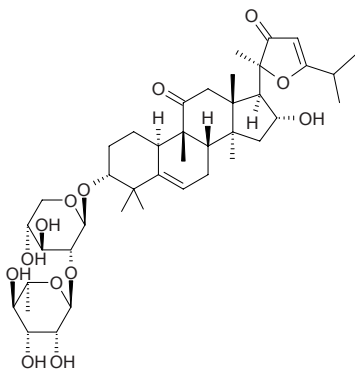
**17293 Picfeltarraegenin VI**

[82452-26-4] $C_{30}H_{44}O_6$ (500.68). **Source:** KU XUAN SHEN *Picria felterrae*. **Ref:** 3212.

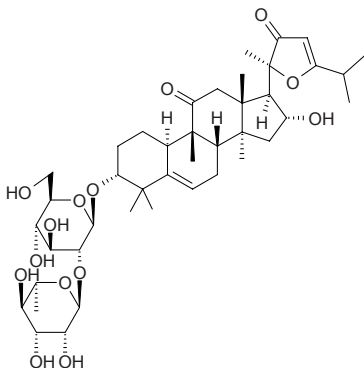


17294 Picfeltarraenin IA

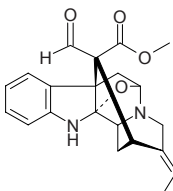
[97230-47-2] C₄₁H₆₂O₁₃ (762.94). Source: KU XUAN SHEN *Picria felterrae*.
Ref: 3213.

**17295 Picfeltarraenin IB**

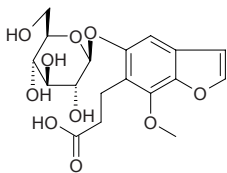
[97230-46-1] C₄₂H₆₄O₁₄ (792.97). Source: KU XUAN SHEN *Picria felterrae*.
Ref: 3213.

**17296 Picralinal**

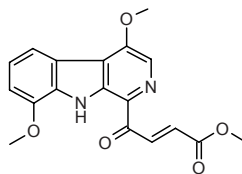
[20045-06-1] C₂₁H₂₂N₂O₄ (366.42). mp 179~180°C. Source: XIANG PI MU
Alstonia scholaris. Ref: 6, 1521.

**17297 Picraqquassioide A**

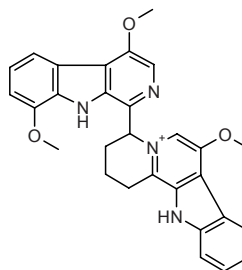
6-Carboxyethyl-7-methoxy-5-hydroxybenzofuran-5-*O*-β-*D*-glucopyranoside
 C₁₈H₂₂O₁₀ (398.37). Amorphous powder, [α]_D²¹ = -60° (c = 1.8, MeOH).
Source: BEI SHA SHEN *Glehnia littoralis* (fruit), CHOU CAO *Ruta graveolens* (dried aerial parts). Ref: 3073, 3525.

**17298 Picrasidine E**

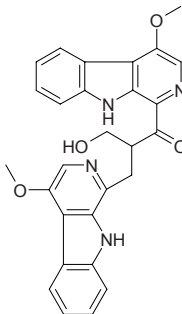
[94530-77-5] C₁₈H₁₆N₂O₅ (340.34). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17299 Picrasidine F**

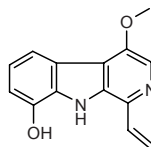
C₂₉H₂₇N₄O₃⁺ (479.56). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**17300 Picrasidine H**

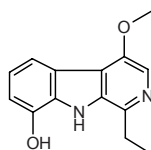
[105608-30-8] C₂₈H₂₄N₄O₄ (480.53). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**17301 Picrasidine I**

[100234-59-1] C₁₄H₁₂N₂O₂ (240.26). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

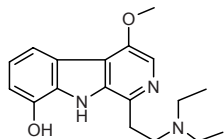
**17302 Picrasidine J**

[100234-62-6] C₁₄H₁₄N₂O₂ (242.28). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

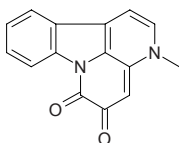


17303 Picrasidine K

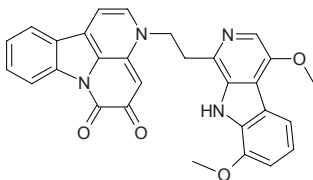
[100234-63-7] $C_{18}H_{23}N_3O_2$ (313.40). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17304 Picrasidine L**

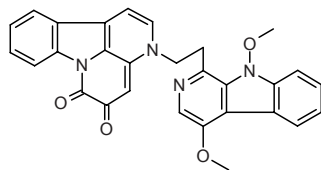
$C_{15}H_{10}N_2O_2$ (250.26). Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.000011%dw)^[4728]. Ref: 4556, 4728.

**17305 Picrasidine M**

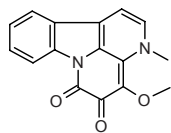
[99964-79-1] $C_{29}H_{22}N_4O_4$ (490.52). Nacarat acicular crystals (dimethyl sulfoxide), mp 294~295°C (dec). Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, $IC_{50} = 96\mu\text{mol/L}$). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1009, 1011, 1198.

**17306 Picrasidine N**

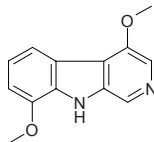
[101219-62-9] $C_{29}H_{22}N_4O_4$ (490.52). Nacarat acicular crystals (chloroform:methanol = 1:1), mp 171~172°C (dec). Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, $IC_{50} = 2\mu\text{mol/L}$). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1010, 1011, 1198.

**17307 Picrasidine O**

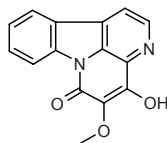
[101219-63-0] $C_{16}H_{12}N_2O_3$ (280.29). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17308 Picrasidine P**

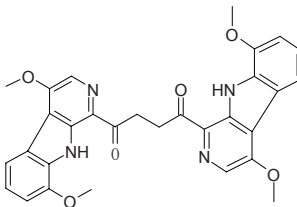
[99964-78-0] $C_{13}H_{12}N_2O_2$ (228.25). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**17309 Picrasidine Q**

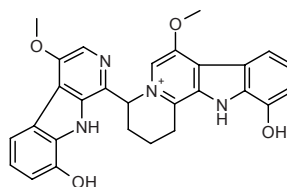
$C_{15}H_{10}N_2O_3$ (266.26). Pharm: Cytotoxic (*in vitro*, A549, $ED_{50} = 16.2\mu\text{g/mL}$; MCF7, $ED_{50} = 18.1\mu\text{g/mL}$; HIV, no significant effect)^[4728], antimalarial (*Plasmodium falciparum* W2, $IC_{50} = 3.5\mu\text{g/mL}$; *Plasmodium falciparum* D6, $IC_{50} = 3\mu\text{g/mL}$)^[4728]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (root: yield = 0.00001%dw)^[4728], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 4728.

**17310 Picrasidine R**

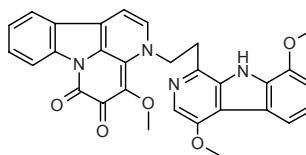
[106154-68-1] $C_{31}H_{28}N_4O_5$ (538.61). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**17311 Picrasidine T**

$C_{28}H_{25}N_4O_4$ (481.54). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

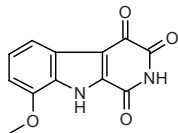
**17312 Picrasidine U**

[118636-90-1] $C_{30}H_{24}N_4O_5$ (520.55). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

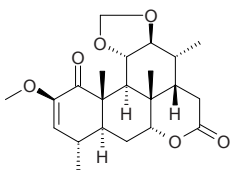


17313 Picrasidine V

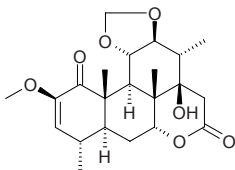
[131653-92-4] C₁₂H₈N₂O₄ (244.21). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17314 Picrasin D**

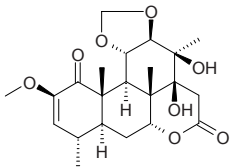
[33204-37-4] C₂₂H₃₀O₆ (390.48). mp 283.5~285.0°C. [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17315 Picrasin E**

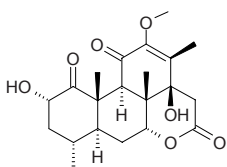
[33204-38-5] C₂₂H₃₀O₇ (406.48). mp 293~295°C. [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17316 Picrasin F**

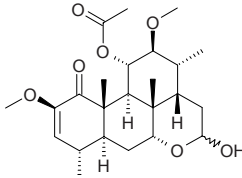
[35026-93-8] C₂₂H₃₀O₈ (422.48). mp 282~283°C. [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17317 Picrasin G**

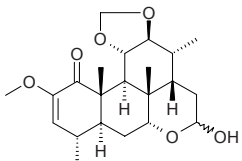
[35598-69-7] C₂₁H₂₈O₇ (392.45). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12, 1521.

**17318 Picrasinol A**

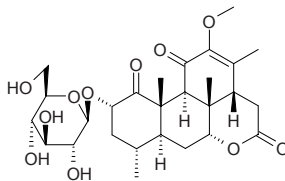
[89498-92-0] C₂₄H₃₆O₇ (436.55). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17319 Picrasinol B**

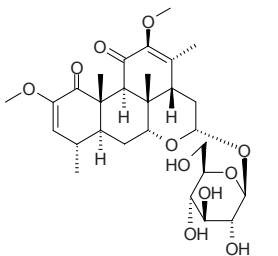
[89498-91-9] C₂₂H₃₂O₆ (392.50). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17320 Picrasinoside A**

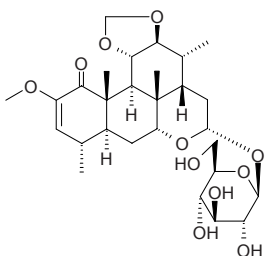
[83543-82-2] C₂₇H₃₈O₁₁ (538.60). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

**17321 Picrasinoside B**

[89200-08-8] C₂₈H₄₀O₁₁ (552.62). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

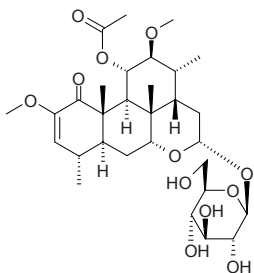
**17322 Picrasinoside C**

[89200-07-0] C₂₈H₄₂O₁₁ (554.64). [Source](#): KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. [Ref](#): 12.

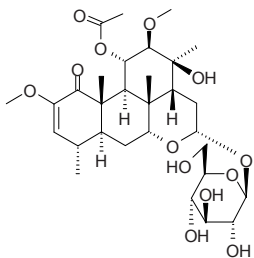


17323 Picrasinoides D

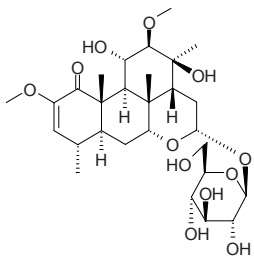
[89200-06-6] C₃₀H₄₆O₁₂ (598.69). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17324 Picrasinoides E**

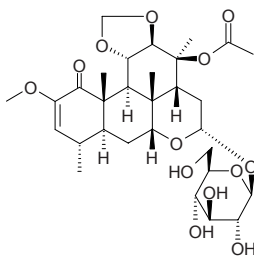
[89200-05-5] C₃₀H₄₆O₁₃ (614.69). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17325 Picrasinoides G**

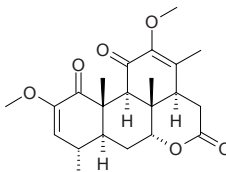
[89200-03-3] C₂₈H₄₄O₁₂ (572.66). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17326 Picrasinoides H**

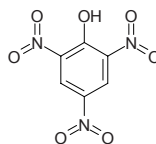
C₃₀H₄₄O₁₃ (612.68). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**17327 Picrasmin**

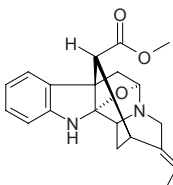
Isoquassin C₂₂H₂₈O₆ (388.46). Plates and rods (MeOH aq.), mp 222~225°C, mp 291°C, [α]_D²⁰ = +46.6° (CHCl₃). Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 6, 660, 1521.

**17328 Picric acid**

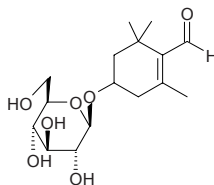
C₆H₃N₃O₇ (229.11). Source: WU MEI *Prunus mume*. Ref: 660.

**17329 Picrinine**

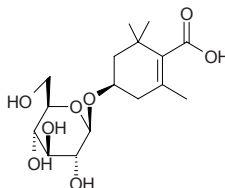
[4684-32-6] C₂₀H₂₂N₂O₃ (338.41). mp 223~225°C (dec). Source: XIANG PI MU *Alstonia scholaris*. Ref: 6.

**17330 Picrocrocin**

[138-55-6] C₁₆H₂₆O₇ (330.38). mp 156°C. Source: ZANG HONG HUA *Crocus sativus*, ZANG HONG HUA *Crocus sativus* (stigma: 1.39%dw)^[4653]. Ref: 6, 4653.

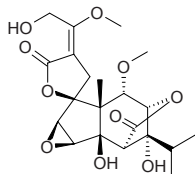
**17331 Picrocrocinic acid O-β-D-glucopyrinoside**

[62218-53-5] C₁₆H₂₆O₈ (346.38). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 626.

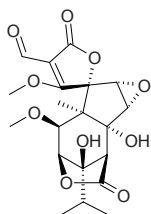


17332 Picrodendrin A

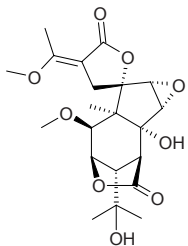
[123617-36-7] C₂₁H₂₈O₁₀ (440.45). Colorless prismatic crystals, mp 223°C, [α]_D²⁵ = -25° (*c* = 1.3, pyridine). **Pharm:** Pesticide (kills cockroach, LD₅₀ = 1.1 μg/cockroach). **Source:** JIANG GUO KU SHU *Picrodendron baccatum*. **Ref:** 1555.

**17333 Picrodendrin B**

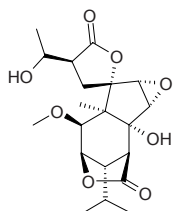
[135462-99-6] C₂₀H₂₄O₁₀ (414.41). Colorless prisms (MeOH), mp 245°C, [α]_D²⁵ = -50.4° (*c* = 1.8, pyridine). **Pharm:** Inhibits ³⁵S-TBPS specially combines with rat brain meninges (IC₅₀ = 0.16 μmol/L). **Source:** JIANG GUO KU SHU *Picrodendron baccatum*. **Ref:** 3737, 1198.

**17334 Picrodendrin M**

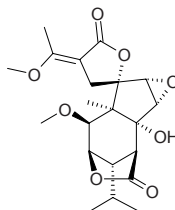
[142808-70-6] C₂₁H₂₈O₉ (414.45). Prisms (MeOH), mp 256–258°C, [α]_D²² = -23.1° (*c* = 0.3, pyridine). **Pharm:** Inhibits ³⁵S-TBPS specially combines with rat brain meninges (IC₅₀ = 0.16 μmol/L, the activity is double of that of tutin); pesticide (kills cockroach, LD₅₀ = 0.047 μg/cockroach). **Source:** JIANG GUO KU SHU *Picrodendron baccatum*. **Ref:** 3701, 1198.

**17335 Picrodendrin O**

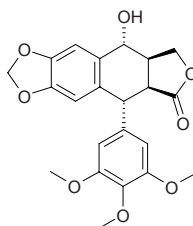
[142816-75-9] C₂₀H₂₈O₈ (396.44). Prisms (MeOH), mp 233–234°C, [α]_D²⁵ = +9.4° (*c* = 0.6, pyridine). **Pharm:** Inhibits ³⁵S-TBPS specially combines with rat brain meninges (IC₅₀ = 5.4 μmol/L); pesticide (kills cockroach, LD₅₀ = 0.37 μg/cockroach). **Source:** JIANG GUO KU SHU *Picrodendron baccatum*. **Ref:** 3701, 1198.

**17336 Picrodendrin Q**

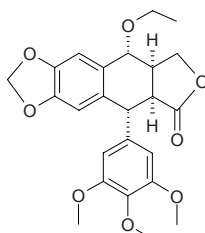
[142808-73-9] C₂₁H₂₈O₈ (408.45). Prisms (MeOH), mp 219°C, [α]_D²⁵ = -2.0° (*c* = 0.6, pyridine). **Pharm:** Inhibits ³⁵S-TBPS specially combines with rat brain meninges (IC₅₀ = 0.0075 μmol/L, the activity is 45 times of that of tutin); pesticide (kills cockroach, LD₅₀ = 0.071 μg/cockroach). **Source:** JIANG GUO KU SHU *Picrodendron baccatum*. **Ref:** 3701, 1198.

**17337 Picropodophyllin**

Picropodophyllotoxin [477-47-4] C₂₂H₂₂O₈ (414.42). Colorless fine needles, mp 229–230°C, [α]_D = +9.4°. **Pharm:** Anti-fertility agent; antiviral (measles virus, HSV-1, HSV/CV-1, IC₅₀ < 20 μg/mL, VSV/BHK, IC₅₀ < 10 μg/mL); antineoplastic (P₃₈₈ IC₅₀ < 2.5 μg/mL, control Adriamycin, IC₅₀ = 0.017 μg/mL, A549 IC₅₀ < 2.5 μg/mL, adriamycin, IC₅₀ = 0.053 μg/mL, HT29 IC₅₀ < 2.5 μg/mL, adriamycin, IC₅₀ = 0.11 μg/mL). **Source:** DUN YE GUI JIU *Podophyllum peltatum*, SHAN HE YE *Diphylleia grayi*, BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], CHA ZI YUAN BAI *Juniperus sabina*, DUO HUA BA JIAO LIAN *Dysosma aurantiocaulis*, RU XIANG BAI *Juniperus thurifera*, LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.034%)^[5508], TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (root and rhizome: mean content of 2 origins = 0.12%^[5508]), WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.52%^[5508]), ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 658, 1521, 2719, 2729, 3115, 3218, 3220, 3221, 3222, 3223, 3224, 3543, 5508.

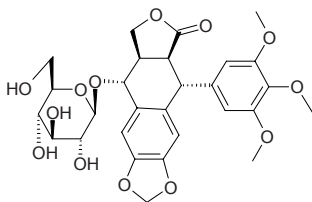
**17338 Picropodophyllin-1-ethyl ether**

C₂₄H₂₆O₈ (442.47). White thin acicular crystals (Me₂CO), mp 217–220°C, [α]_D¹⁷ = +69° (*c* = 0.01, CHCl₃). **Source:** SHAN HE YE *Diphylleia grayi*. **Ref:** 279.

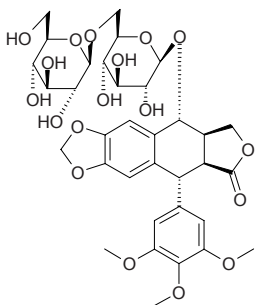


17339 L-Picropodophyllin 7'-O-β-D-glucopyranoside

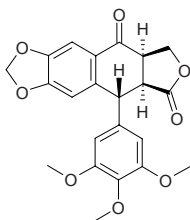
$C_{28}H_{32}O_{13}$ (576.56). Colorless needles, $[\alpha]_D^{26} = -91^\circ$ ($c = 0.08$, EtOH:H₂O = 1:1). **Source:** TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome). **Ref:** 4320.

**17340 L-Picropodophyllin 7'-O-(β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside)**

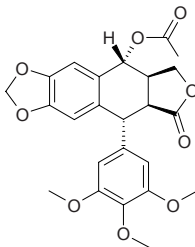
$C_{34}H_{42}O_{18}$ (738.70). Colorless needles, $[\alpha]_D^{29} = -46^\circ$ ($c = 0.6$, MeOH). **Source:** TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome). **Ref:** 4320.

**17341 Picropodophyllone**

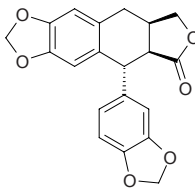
[477-48-5] $C_{22}H_{20}O_8$ (412.40). Colorless needles, mp 158–159°C, $[\alpha]_D^{25} = -142^\circ$ ($c = 0.83$, CHCl₃). **Pharm:** Antiviral (HSV/CV-1, IC₅₀ = 20 μg/mL, VSV/BHK, IC₅₀ = 10 μg/mL); antineoplastic (P₃₈₈ IC₅₀ = 5 μg/mL, control adriamycin IC₅₀ = 0.017 μg/mL, A549 IC₅₀ = 5 μg/mL, control adriamycin IC₅₀ = 0.053 μg/mL, HT29 IC₅₀ = 5 μg/mL, control adriamycin IC₅₀ = 0.11 μg/mL); antifungal (200 μg/mL: *Acrothesium floccosum*, *Curvularia lunata*, *Pleurotus ostreatus*). **Source:** BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], CHA ZI YUAN BAI *Juniperus sabina*, DUO HUA BA JIAO LIAN *Dysosma aurantiocaulis*, LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.031%^[5508]), SHAN XI WO ER QI *Diphylleia cymosa*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome: mean content of 2 origins = 0.042%^[5508]), WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.067%^[5508]). **Ref:** 3214, 3215, 2729, 3115, 3216, 3217, 3218, 3219, 5508.

**17342 Picropodophyllotoxin acetate**

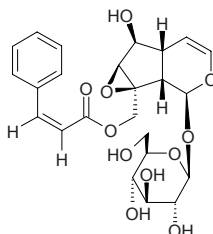
Anticancer Lignan PMV70P691-027 [38491-90-6] $C_{24}H_{24}O_9$ (456.45). Colorless needles, mp 217°C, $[\alpha]_D^{20} = +19.4^\circ$ ($c = 1.0$, CHCl₃). **Pharm:** Antiviral (HSV/CV-1, IC₅₀ < 20 μg/mL, VSV/BHK, IC₅₀ < 10 μg/mL); antineoplastic (P₃₈₈ IC₅₀ < 0.25 μg/mL, control adriamycin IC₅₀ = 0.017 μg/mL, A549 IC₅₀ < 0.25 μg/mL, adriamycin IC₅₀ = 0.053 μg/mL, HT29 IC₅₀ < 0.25 μg/mL, adriamycin IC₅₀ = 0.11 μg/mL); cytotoxic (soft agar transformation assay with JB6 cells)^[5038]. **Source:** CHA ZI YUAN BAI *Juniperus sabina*, LIAN YE TONG *Hernandia Sonora* [Syn. *Hernandia ovigera*] (seed). **Ref:** 3218, 3220, 5038.

**17343 Picropolygamain**

$C_{20}H_{16}O_6$ (352.35). Colorless oil. **Pharm:** Cytotoxic (hmn fibrosarcoma cells HT1080, ED₅₀ = 1.9 μg/mL, control Adriamycin, ED₅₀ = 0.1 μg/mL)^[4437]. **Source:** LIE WEI LIE LAN *Bursera graveolens* (stem). **Ref:** 4437.

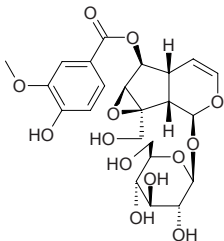
**17344 Picroside I**

6'-Cinnamoylcatalpol [76248-14-1] $C_{24}H_{28}O_{11}$ (492.48). White powder crystals (ethanol–water), mp 76–77°C. **Pharm:** Antihepatotoxic; anti-inflammatory (mus); antioxidant (free radical scavenger *in vitro*). **Source:** HU HUANG LIAN *Picrorhiza kurroa*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora*. **Ref:** 900, 1521.

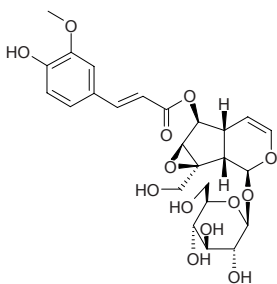


17345 Picroside II

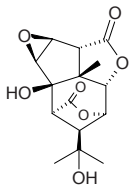
6-Vanilloylcatalpol [39012-20-9] C₂₃H₂₈O₁₃ (512.47). White acicular crystals (methanol), mp 186°C. **Pharm:** Antihepatotoxin (complement-dependent hepatotoxicity, inhibits increase of GTP); anti-inflammatory (mus, edema on ears induced by TPA). **Source:** HU HUANG LIAN *Picrorhiza kurroa* (dried rhizome:: mean content = 1.62%^[5508]), XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome:: mean content = 7.23%^[5508]). **Ref:** 6, 660, 900, 1521, 5508.

**17346 Picroside III**

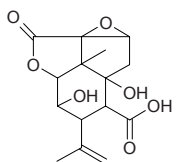
[64461-95-6] C₂₅H₃₀O₁₃ (538.51). mp 154–155°C, [α]_D²⁰ = –78° (CHCl₃). **Source:** HU HUANG LIAN *Picrorhiza kurroa*. **Ref:** 3225.

**17347 Picrotin**

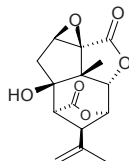
[21416-53-5] C₁₅H₁₈O₇ (310.31). Very bitter and very poisonous glittering trapezoidal leaflike crystals, mp 203°C, [α]_D¹⁶ = –29.3° (c = 4, absolute ethanol). **Pharm:** Antidote (poisoning from barbital); CNS stimulant; GABA_A receptor antagonist; used in treatment of skin disease. **Source:** DUN YE GUI JIU *Podophyllum peltatum*, SHAN HE YE *Diphylleia grayi*, CHA ZI YUAN BAI *Juniperus sabina*, YIN DU FANG JI *Anamirta paniculata*, YIN DU MU FANG JI *Cocculus indicus*. **Ref:** 658, 661, 1521.

**17348 Picrotoxic acid**

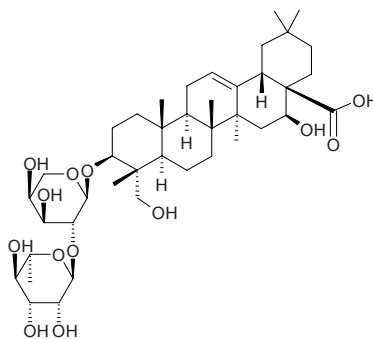
C₁₅H₁₈O₇ (310.31). White needles, mp 208–210 °C. **Source:** *Anamirta cocculus*. **Ref:** 1876.

**17349 Picrotoxinin**

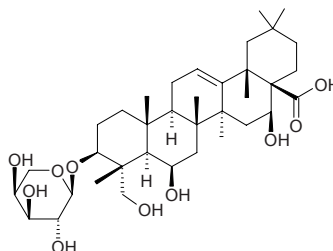
[17617-45-7] C₁₅H₁₆O₆ (292.29). **Source:** YIN DU MU FANG JI *Cocculus indicus*. **Ref:** 661, 1521.

**17350 Pictoside A**

Caulophyllogenin 3-*O*-*α*-L-rhamnopyranosyl(1→2)-*α*-L-arabinopyranoside C₄₁H₆₆O₁₃ (766.98). Colorless powder, mp 224–226°C (MeOH), [α]_D²⁰ = –1.8° (c = 0.23, MeOH). **Pharm:** Anti-inflammatory (male ICR mus, orl, dose = 50mg/kg). **Source:** ZHUO SE CI QIU *Kalopanax pictum* (stem cortex). **Ref:** 4212.

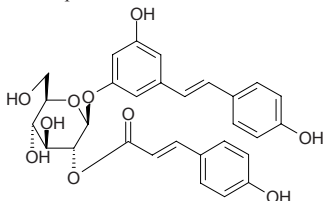
**17351 Pictoside B**

Pictogenin (3β,6β,16α,23-tetrahydroxyolean-12-ene-28-oic acid) 3-*O*-*α*-L-arabinopyranoside C₃₅H₅₆O₁₀ (636.83). Colorless powder, mp 218–220°C (MeOH), [α]_D²⁰ = +2.6° (c = 0.17, MeOH). **Pharm:** Anti-inflammatory inactive^[4212]. **Source:** ZHUO SE CI QIU *Kalopanax pictum* (stem cortex). **Ref:** 4212.

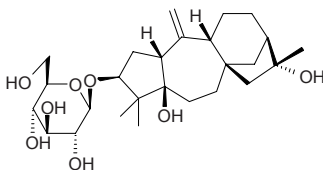


17352 Pieceid-2''-O-coumarate

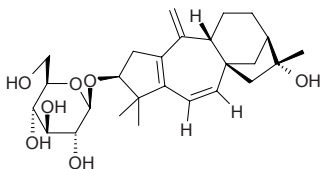
$C_{29}H_{28}O_{10}$ (536.54). White amorphous powder (MeOH), $[\alpha]_D^{25} = 2.5^\circ$ ($c = 0.22$, MeOH). **Pharm:** Antioxidant (DPPH radical scavenger, $IC_{50} = 84.3\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 20.7\mu\text{mol/L}$, control BHT, $IC_{50} = 12.6\mu\text{mol/L}$); antioxidant (superoxide anion scavenger, $IC_{50} = 74.6\mu\text{mol/L}$, control Vitamin E, $100\mu\text{mol/L}$, InRt < 50%, control BHT, $IC_{50} = 24.6\mu\text{mol/L}$); antioxidant (lipid peroxidation inhibitor, $IC_{50} = 5.1\mu\text{mol/L}$, control Vitamin E, $IC_{50} = 5.3\mu\text{mol/L}$, control BHT, $IC_{50} = 1.0\mu\text{mol/L}$). **Source:** MAO MAI LIAO *Pleuropterus ciliinervis*. **Ref:** 3452.

**17353 Pierisformoside B**

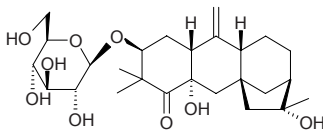
$C_{26}H_{42}O_8$ (482.62). Viscous syrup, $[\alpha]_D^{18} = -2.31^\circ$ ($c = 0.17$, MeOH). **Source:** MEI LI MA ZUI MU *Pieris formosa* (leaf). **Ref:** 3992.

**17354 Pierisformoside C**

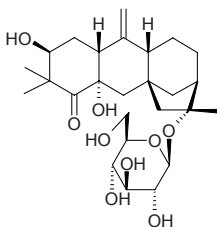
$C_{26}H_{38}O_7$ (462.59). Viscous syrup, $[\alpha]_D^{23} = +87.81^\circ$ ($c = 0.11$, MeOH). **Source:** MEI LI MA ZUI MU *Pieris formosa* (leaf). **Ref:** 3992.

**17355 Pierisformoside D**

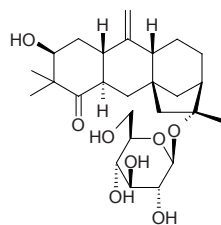
$C_{26}H_{40}O_9$ (496.60). Viscous syrup, $[\alpha]_D^{18} = -4.35^\circ$ ($c = 0.15$, MeOH). **Source:** MEI LI MA ZUI MU *Pieris formosa* (leaf). **Ref:** 3992.

**17356 Pierisformoside E**

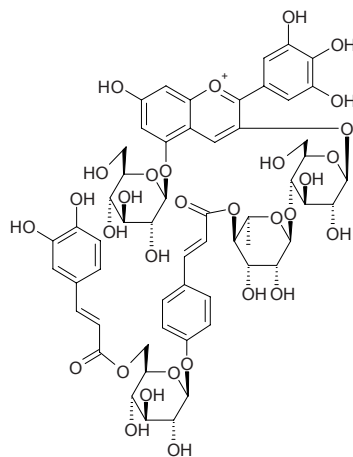
$C_{26}H_{40}O_9$ (496.60). Viscous syrup, $[\alpha]_D^{18} = -6.09^\circ$ ($c = 0.20$, MeOH). **Source:** MEI LI MA ZUI MU *Pieris formosa* (leaf). **Ref:** 3992.

**17357 Pierisformoside F**

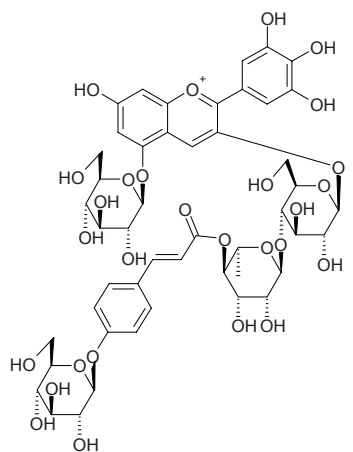
$C_{26}H_{40}O_8$ (480.60). Viscous syrup, $[\alpha]_D^{16} = -13.78^\circ$ ($c = 0.13$, MeOH). **Source:** MEI LI MA ZUI MU *Pieris formosa* (leaf). **Ref:** 3992.

**17358 Pigment 25**

Delphinidin 3-O-[6-O-(4-O-(4-O-(6-O-(*trans*-caffeoyl)- β -D-glucopyranosyl)-*trans*-*p*-coumaroyl)- α -L-rhamnopyranosyl)- β -D-glucopyranoside]-5-O-[β -D-glucopyranoside] $C_{57}H_{63}O_{31}^+$ (1244.12). **Source:** *Petunia reitzii*. **Ref:** 3998.

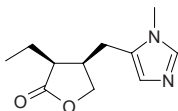
**17359 Pigment 26**

Delphinidin 3-O-[6-O-(4-O-(4-O-(β -D-glucopyranosyl)-*trans*-*p*-coumaroyl)- α -L-rhamnopyranosyl)- β -D-glucopyranoside]-5-O-[β -D-glucopyranoside] $C_{48}H_{57}O_{28}^+$ (1081.97). **Source:** *Petunia reitzii*. **Ref:** 3998.

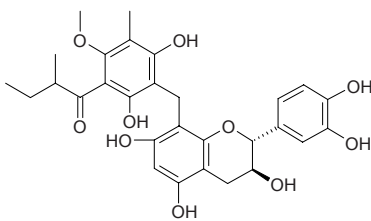


17360 Pilocarpine

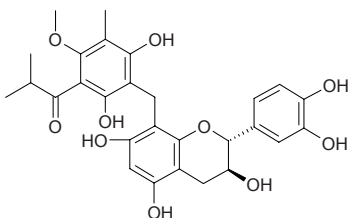
Ocusert pilo [92-13-7] $C_{11}H_{16}N_2O_2$ (208.26). Oil or crystals, mp 34°C, bp 260°C/5mmHg, (with some conversion into iso-pilocarpine), $[\alpha]_D^{18} = +106^\circ$ ($c = 2$, water), soluble in water, ethanol, chloroform, slightly soluble in ether, benzene, almost insoluble in petroleum spirit.^[5507] **Pharm:** Stimulates M-cholinergic receptor agonist; causes miosis; smooth muscle stimulant; perspiration; used in treatment of glaucoma. **Source:** MAO GUO YUN XING *Pilocarpus jaborandi* (in 1879, isolated from the plant by Petit for the first time^[5507]; in 1966, the compound was isolated from the plant by R.K.Hill et al.)^[5505]. **Ref:** 658, 5505, 5507.

**17361 Pilosanol A**

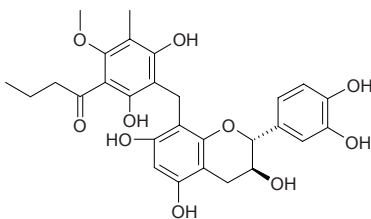
[142542-76-5] $C_{29}H_{32}O_{10}$ (540.57). Maple powder, mp 190–195°C (dec), $[\alpha]_D^{23} = -52.6^\circ$ ($c = 1.9$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MED = 100µg/disk). **Source:** LONG YA CAO *Agrimonia pilosa*. **Ref:** 3626.

**17362 Pilosanol B**

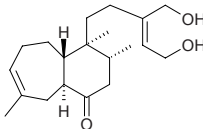
[142542-77-6] $C_{28}H_{32}O_{10}$ (526.55). Maple powder, mp 158–160°C (dec), $[\alpha]_D^{23} = -46.3^\circ$ ($c = 1.86$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MED = 100µg/disk). **Source:** LONG YA CAO *Agrimonia pilosa*. **Ref:** 3626.

**17363 Pilosanol C**

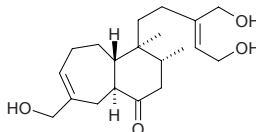
[142542-78-7] $C_{28}H_{30}O_{10}$ (526.55). Maple powder, mp 185–190°C (dec), $[\alpha]_D^{23} = -69.2^\circ$ ($c = 1.82$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MED = 100µg/disk). **Source:** LONG YA CAO *Agrimonia pilosa*. **Ref:** 3626.

**17364 Pilosanol A**

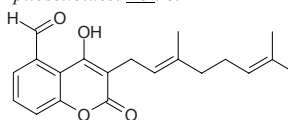
$C_{20}H_{32}O_3$ (320.48). Crystals, mp 98.5–99°C, $[\alpha]_D^{30.5} = -51.1^\circ$ ($c = 0.56$, EtOH). **Source:** MAO MA CHI XIAN *Portulaca pilosa*. **Ref:** 3226.

**17365 Pilosanol B**

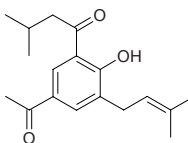
$C_{20}H_{32}O_4$ (336.48). Oil, $[\alpha]_D^{30.5} = -52.2^\circ$ ($c = 1.27$, EtOH). **Source:** MAO MA CHI XIAN *Portulaca pilosa*. **Ref:** 3226.

**17366 Piloselloidal**

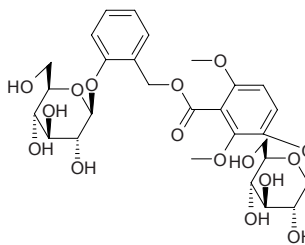
[54963-36-9] $C_{20}H_{22}O_4$ (326.40). **Source:** MAO DA DING CAO *Gerbera piloselloides*. **Ref:** 6.

**17367 Piloselloidone**

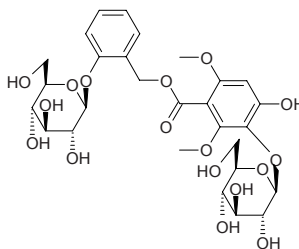
[54963-42-7] $C_{18}H_{24}O_3$ (288.39). **Source:** MAO DA DING CAO *Gerbera piloselloides*. **Ref:** 6.

**17368 Piloside A**

$C_{28}H_{36}O_{16}$ (628.59). Crystals (MeOH), mp 150–152°C, $[\alpha]_D^{20} = -50.2^\circ$ ($c = 0.6$, MeOH). **Source:** MAO XIAN MAO *Curculigo pilosa* (rhizome). **Ref:** 5095.

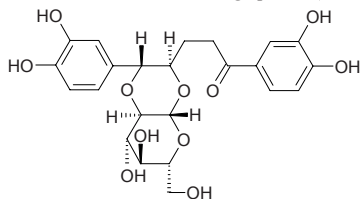
**17369 Piloside B**

$C_{28}H_{36}O_{17}$ (644.59). Amorphous powder, mp 132–136°C, $[\alpha]_D^{20} = -39.3^\circ$ ($c = 0.34$, MeOH). **Source:** MAO XIAN MAO *Curculigo pilosa* (rhizome). **Ref:** 5095.

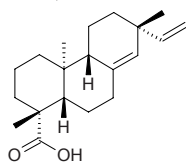


17370 Pisolidine

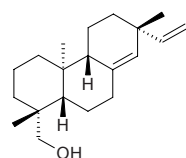
$C_{23}H_{26}O_{11}$ (478.46). Crystals (EtOAc), mp 165~167°C, $[\alpha]_D^{20} = +43.2^\circ$ ($c = 0.84$, MeOH). **Pharm:** Contracts blood vessels (*in vitro*, rabbit aorta, facilitating effect on adrenaline evoked contractions, 1~30 μ mol/L); contracts blood vessels (*in vitro*, rabbit aorta, dose dependent, 30~62 μ mol/L). **Source:** MAO XIAN MAO *Curculigo pilosa* (rhizome). **Ref:** 5095.

**17371 L-Pimara-8(14),15-dien-19-oic acid**

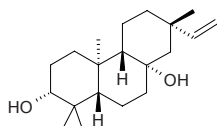
ent-Pimara-8(14),15-dien-19-oic acid $C_{20}H_{30}O_2$ (302.46). mp (-) 163~164°C; white crystals, mp 163~165°C, $[\alpha]_D^{25} = -120.0^\circ$ ($c = 0.50$, $CHCl_3$). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC > 100 μ g/mL; *Bacillus subtilis*, MIC = 50 μ g/mL)^[4144]; COX-1 inhibitor (*in vitro*, IC₅₀ = 0.19mmol/L)^[4957]. **Source:** RI BEN HUA BAI *Chamaecyparis pisifera* (leaf), TU DANG GUI *Aralia cordata*, CI SAN JIA *Acanthopanax trifoliatum* (stem cortex). **Ref:** 6, 4144, 4957.

**17372 L-Pimara-8(14),15-dien-19-ol**

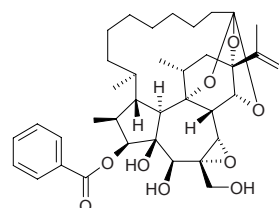
$C_{20}H_{32}O$ (288.48). mp (-) 109~110°C. **Source:** TU DANG GUI *Aralia cordata*. **Ref:** 6.

**17373 ent-Pimara-15-ene-3 α ,8 α -diol**

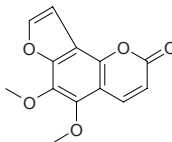
$C_{20}H_{34}O_2$ (309.49). White solid, mp 137.5~138.5°C, $[\alpha]_D^{25} = -17.5^\circ$ ($c = 1.36$, $CHCl_3$). **Source:** A GEN TING SHU QU CAO *Gnaphalium gaudichaudianum*. **Ref:** 2059.

**17374 Pimelea factor P₂**

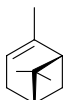
$C_{37}H_{50}O_9$ (638.81). **Pharm:** Irritant. **Source:** family Thymelaeaceae spp. **Ref:** 658.

**17375 Pimpinellin**

[131-12-4] $C_{13}H_{10}O_5$ (246.22). Crystals (EtOAc-hexane), mp 95~96°C, 119°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*). **Source:** DA HUI QIN *Pimpinella magna*, DIAN BAI ZHI *Heracleum scabridum*, DUAN JING GU DANG GUI *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*], DUAN MAO DU HUO *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], HU ER CAO YE HUI QIN *Pimpinella saxifraga*, JIA NA LI HAO *Artemisia canariensis*, LANG DU *Stellera chamaejasme*, LI JIANG QIAN HU *Peucedanum govanianum* var. *bicolor*, NIU FANG FENG *Heracleum sphondylium*, QU XI DANG GUI *Angelica genuflexa*, YANG JIAO MIAN *Alstonia mairei*, YONG NING DU HUO *Heracleum yungningense*, ZHI SHA CAO *Cyperus papyrus*, *Heracleum* spp. **Ref:** 6, 541, 557, 658, 660, 1521.

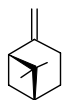
**17376 α -Pinene**

$C_{10}H_{16}$ (136.24). bp (+) 155~156°C/755mmHg, (-) 155~156°C/746mmHg, (\pm) 156.2°C/741mmHg. **Pharm:** Antifungal; antitussive (dispels phlegm); irritant. **Source:** BO HE *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], DANG SHEN *Codonopsis pilosula*, DONG LING CAO *Rabdosia rubescens*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], GAO LIANG JIANG *Alpinia officinarum* (dried rhizome: mean content = 0.42%)^[5508], HOU PO *Magnolia officinalis*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, HUO XIANG *Agastache rugosus*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN YIN HUA *Lonicera japonica*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, MA WEI SONG YE *Pinus massoniana* (dried leaf: mean content = 0.0221%)^[5508], NAN HE SHI *Daucus carota*, PI PA YE *Eriobotrya japonica*, QIANG HUO *Notopterygium incisum*, ROU DOU KOU *Myristica fragrans* (kernel: mean content = 0.78%)^[5508], SHENG JIANG *Zingiber officinale*, TOU HUA DU JUAN *Rhododendron capitatum*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*], *Citrus* sp., occurs in many plants. **Ref:** 2, 11, 658, 660, 5501, 5508.

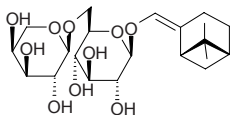


17377 β -Pinene

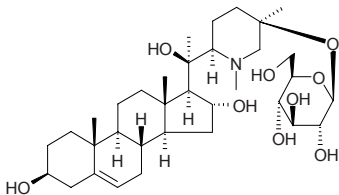
$C_{10}H_{16}$ (136.24). bp (+) 162~166°C, (–) 163.5~164.0°C/746mmHg. Pharm: Antifungal; anti-inflammatory (the most effective component of 10 compounds in Fineleaf Schizonepeta, JING JIE, *Schizonepeta tenuifolia*); antitussive (dispels phlegm). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, HUO XIANG *Agastache rugosus*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa* (green fruit: mean content of 7 origins = 1.16%, ripe fruit: mean content of 5 origins = 0.50%)^[5520], PI PA YE *Eriobotrya japonica*, QIANG HUO *Notopterygium incisum*, YIN CHEN HAO *Artemisia capillaris*. Ref: 2, 11, 658, 660, 5520.

**17378 (Z)-(1S,5R)- β -Pinen-10-yl- β -vicianoside**

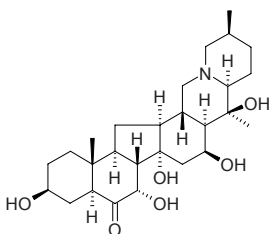
$C_{21}H_{34}O_{10}$ (446.50). Source: CHI SHAO *Paeonia lactiflora* wild. Ref: 2.

**17379 Pingbeidinioside**

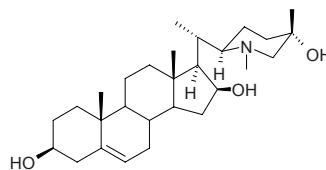
[125309-97-9] $C_{34}H_{57}NO_9$ (623.83). Colorless acicular crystals, mp 242.0~243.2°C, $[\alpha]_D^{25} = +6.9^\circ$ ($c = 0.145$, MeOH). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 138.

**17380 Pingbeimine C**

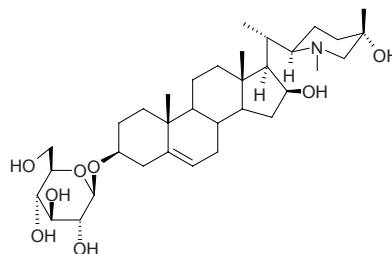
C-Nor-D-homosteroid alkaloid [128585-96-6] $C_{27}H_{43}NO_6$ (477.65). Colorless prismatic crystals, mp 171.53°C, $[\alpha]_D^{25} = -24.6^\circ$ ($c = 1.1$, methanol). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 150.

**17381 Pingbeinine**

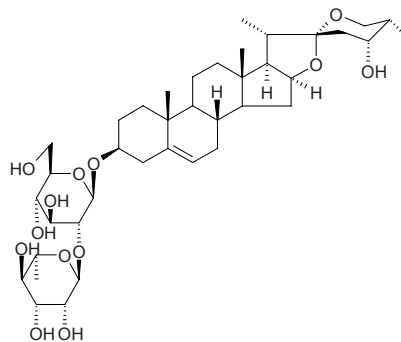
[131984-89-9] $C_{28}H_{47}NO_3$ (445.69). Needles (MeOH), mp 223~235°C, $[\alpha]_D = -32.8^\circ$ ($c = 0.09$, MeOH). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 3227.

**17382 Pingbeininoside**

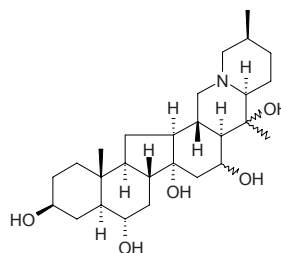
[131984-90-2] $C_{34}H_{57}NO_8$ (607.84). Needles (MeOH), mp 244~246°C, $[\alpha]_D = -4.57^\circ$ ($c = 0.164$, MeOH). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 3227.

**17383 Pingbeisaponin**

Pingbeisaponin [126453-84-7] $C_{39}H_{62}O_{13}$ (738.92). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 3228.

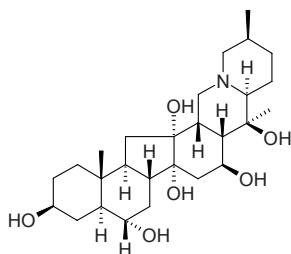
**17384 Pingpeimine A**

Pingpeimine A [82841-67-6] $C_{27}H_{45}NO_5$ (463.66). Pharm: Antitussive (dispels phlegm); antihypertensive. Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 658, 3114.

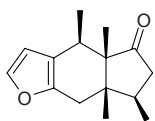


17385 Pingpeimine B

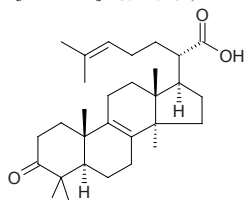
5 α ,17 β ,22 α -Cevanine-3 β ,6 α ,12 α ,14 α ,16 β ,20 β -hexol C₂₇H₄₅NO₆ (479.66). Colorless acicular crystals, mp 242~244°C, [α]_D = +24.9° (c = 0.08, methanol). Source: PING BEI MU *Fritillaria ussuriensis*. Ref: 117, 660.

**17386 Pinguisone**

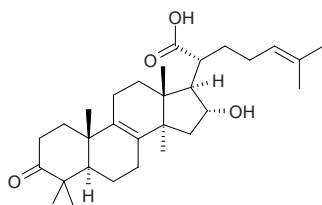
[22489-40-3] C₁₅H₂₀O₂ (232.33). Pharm: Insect antifeedant. Source: LONG YA CAO *Agrimonia pilosa*. Ref: 658.

**17387 Pinicolic acid A**

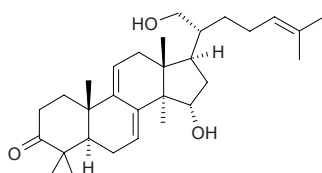
[466-05-7] C₃₀H₄₆O₃ (454.70). Source: FU LING *Poria cocos*. Ref: 2.

**17388 Pinicolic acid E**

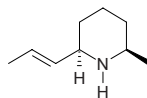
16 α -Hydroxy-3-oxolanosta-8,24-dien-21-oic acid C₃₀H₄₆O₄ (470.70). Waxy yellow solid. Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (crust). Ref: 3972.

**17389 Pinicolol C**

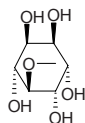
3-Oxolanosta-7,9(11),24-trien-15 α ,21-diol C₃₀H₄₆O₃ (454.70). Waxy yellow solid. Source: HONG YUAN CENG KONG JUN *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (crust). Ref: 3972.

**17390 Pinidine**

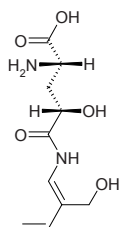
2-Methyl-6-(prop-2-enyl)piperidine [501-02-0] C₉H₁₇N (139.24). bp 176~177°C/751mmHg. Source: HAI SONG ZI *Pinus koraiensis*. Ref: 6.

**17391 Pinitol**

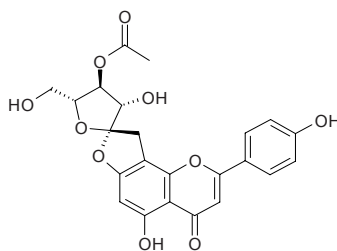
[10284-63-6] C₇H₁₄O₆ (194.19). mp 186°C. Source: YE GUAN MEN *Lespedeza cuneata*. Ref: 6.

**17392 Pinnatanine**

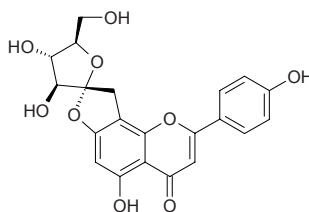
[35214-74-5] C₁₀H₁₆N₂O₅ (244.25). mp 175°C (dec), [α]_D²⁷ = +3.2° (c = 0.5, H₂O). Source: OU ZHOU SHENG GU YOU *Staphylea pinnata*, XUAN CAO GEN *Hemerocallis fulva*. Ref: 3229.

**17393 Pinnatifin I**

C₂₃H₂₀O₁₀ (456.41). yellowish acicular crystals, mp 251~253°C. Source: SHAN LI HONG *Crataegus pinnatifida* var. *major*. Ref: 2129.

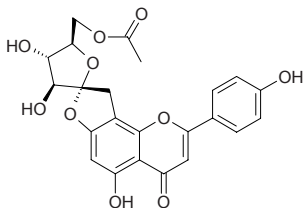
**17394 Pinnatifinoside A**

C₂₁H₁₈O₉ (414.37). Yellow needles, mp 185~187°C, [α]_D²⁵ = +79° (c = 0.24, MeOH). Source: SHAN LI HONG *Crataegus pinnatifida* var. *major* (leaf). Ref: 5170.

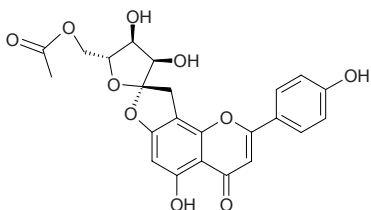


17395 Pinnatifinoside B

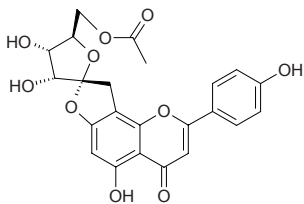
$C_{23}H_{20}O_{10}$ (456.41). Light yellow needles, 240~242°C, $[\alpha]_D^{25} = +58^\circ$ ($c = 0.12$, MeOH). Source: SHAN LI HONG *Crataegus pinnatifida* var. *major* (leaf). Ref: 5170.

**17396 Pinnatifinoside C**

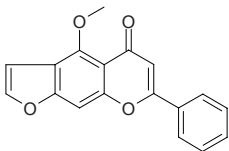
$C_{23}H_{20}O_{10}$ (456.41). Light yellow needles, 246~248°C, $[\alpha]_D^{25} = -34^\circ$ ($c = 0.16$, MeOH). Source: SHAN LI HONG *Crataegus pinnatifida* var. *major* (leaf). Ref: 5170.

**17397 Pinnatifinoside D**

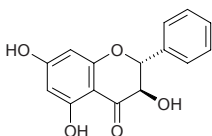
$C_{23}H_{20}O_{10}$ (456.41). Light yellow needles, 248~250°C, $[\alpha]_D^{25} = +25^\circ$ ($c = 0.11$, MeOH). Source: SHAN LI HONG *Crataegus pinnatifida* var. *major* (leaf). Ref: 5170.

**17398 Pinnatin**

[1232-43-5] $C_{18}H_{12}O_4$ (292.29). mp 176~177°C. Source: SHUI LIU DOU *Pongamia pinnata*. Ref: 6.

**17399 Pinobanksin**

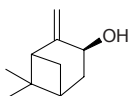
[548-82-3] $C_{15}H_{12}O_5$ (272.26). Long yellow prisms (MeOH), mp 177~178°C, $[\alpha]_D = +15^\circ$ ($c = 2$, MeOH). Source: BO LE SHU *Bretschneidera sinensis*, JIE LIAO *Polygonum nodosum*, MI HUA SHI DOU LAN *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], *Baccharis* spp., *Helichrysum* spp., *Larix* spp., *Pinus* spp., *Platanus* spp., *Polygonum* spp., *Prunus* spp., *Tilia* spp. Ref: 1521, 3230, 3231, 3232.

**17400 L-Pinocamphone**

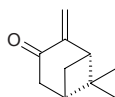
[22339-21-5] $C_{10}H_{16}O$ (152.24). bp 212~214°C. Source: JIN XIAN CAO *Glechoma longituba*. Ref: 6, 1521.

**17401 trans-Pinocarveol**

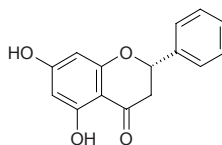
$C_{10}H_{16}O$ (152.24). mp (+) 7°C, (-) 5°C, (±) 14°C. Source: HU JIAO *Piper nigrum*. Ref: 6.

**17402 (-)-Pinocarvone**

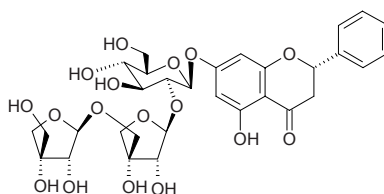
(-)-2(10)-Pinen-3-one $C_{10}H_{14}O$ (150.22). Oil, mp -1.8°C, bp 67~69°C/4mmHg, $[\alpha]_D = -68.5^\circ$. Pharm: Insect attractant (bark beetles). Source: AN YE *Eucalyptus globulus*, TU JING JIE *Chenopodium ambrosioides*, YUAN MAO JING JIE *Nepeta ciliaris*. Ref: 1521.

**17403 Pinocembrin**

(S)-Pinocembrin [480-39-7] $C_{15}H_{12}O_4$ (256.26). $[\alpha]_D^{25} = -32.8^\circ$ ($c = 0.39$, acetone). Pharm: Cytotoxic (aromatase inhibitor)^[5038]; antibacterial (*Bacillus subtilis*, 3µg/mL); antifungal (*Candida albicans*, EC = 0.1-3.0mg/mL, *Saccharomyces cerevisiae* and *Cryptococcus neoformans*); anti-inflammatory^[4415]. Source: DA HUA GE NA XIANG *Goniotalamus griffithii*, GOU SHU GUO *Broussonetia papyrifera*, GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf)^[4685], RUI SHI SHI SONG *Pinus cembra*, YI DA LI LA JU *Helichrysum italicum*, *Glycyrrhiza* sp., *Prunus* sp., *Helichrysum* sp., YANG PU TAO YE *Syzygium samarangense*. Ref: 658, 1521, 5038, 4100, 4415, 4685, 5453.

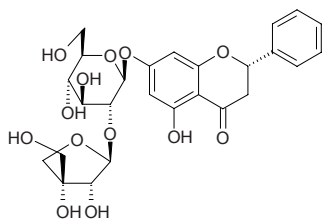
**17404 Pinocembrin 7-O-apiosyl(1→5)apiosyl(1→2)-β-D-glucopyranoside**

$C_{31}H_{38}O_{17}$ (682.64). Colorless amorphous solid, $[\alpha]_D = -119^\circ$ ($c = 0.3$, MeOH). Source: LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb: yield = 0.015%dw). Ref: 4626.

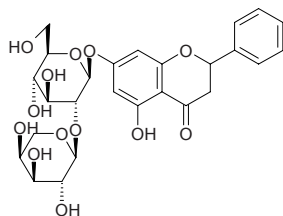


17405 (2S)-Pinocembrin 7-O-[β-D-apiosyl(1→2)]-β-D-glucoside

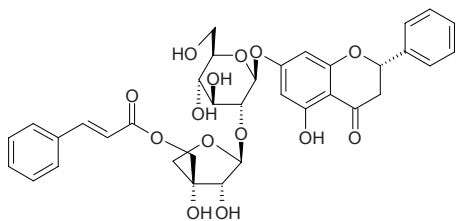
$C_{26}H_{30}O_{13}$ (550.52). Colorless powder (MeOH), mp 204–205°C, $[\alpha]_D = -107.6^\circ$ ($c = 0.01$, MeOH). Source: BIAN ZHI HU JI SHENG *Viscum articulatum*. Ref: 4053.

**17406 Pinocembrin-7-O-α-arabinopyranosyl-(1→2)-β-glucopyranoside**

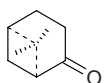
$C_{26}H_{30}O_{13}$ (550.52). Pale yellowish powder. Source: DONG AN NA TUO LI YA SHI CHE JU *Centaurea pseudoscabiosa* ssp. *pseudoscabiosa*. Ref: 1947.

**17407 (2S)-Pinocembrin****7-O-[cinnamoyl(1→5)-β-D-apiosyl(1→2)]-β-D-glucoside**

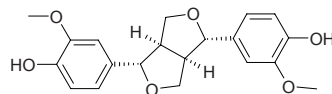
$C_{35}H_{36}O_{14}$ (680.67). White powder (MeOH), mp 170–172°C, $[\alpha]_D = -129.7^\circ$ ($c = 0.035$, MeOH). Source: BIAN ZHI HU JI SHENG *Viscum articulatum*. Ref: 4053.

**17408 (-)-β-Pinone**

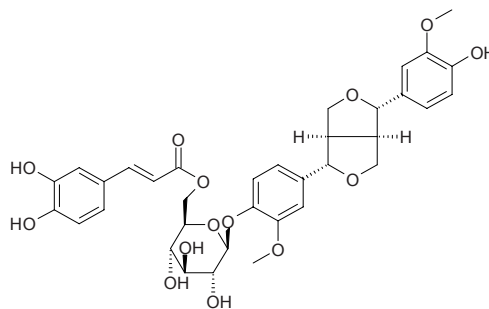
$C_9H_{14}O$ (138.21). bp 85°C/11mmHg, $[\alpha]_D = -18.35^\circ$ (semisynthetic). Source: YAO YONG XUN YI CAO *Lavandula officinalis*. Ref: 1521.

**17409 (+)-Pinoresinol**

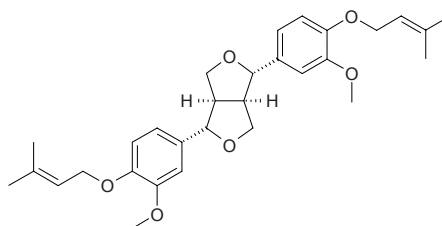
$C_{20}H_{22}O_6$ (358.40). Pharm: cAMP phosphodiesterase inhibitor; aldose reductase inhibitor ($IC_{50} > 100\mu\text{mol/L}$, $100\mu\text{mol/L}$ InRt = 34%, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4530]; EBV-EA inhibitor (TPA-induced, $IC_{50} = 398$ (mol ratio/32pmol TPA), control Curcuminc, $IC_{50} = 341$ (mol ratio/32pmol TPA))^[5028]; anti-inflammatory (modulator of cytokine network: inhibits LPS-activated production of TNF- α in RAW264.7 cells, $IC_{50} = 50\sim 100\mu\text{mol/L}$)^[4416]; inhibits inducible nitric oxide synthase (iNOS) expression (lipopolysaccharide (LPS)-induced, RAW264.7 cells)^[2582]; plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, $1\mu\text{mol/L}$, StRt > 61%, $10\mu\text{mol/L}$, StRt = (30–60)%, $100\mu\text{mol/L}$, StRt > 61%, 1mmol/L , StRt > 61%; *Raphanus sativus*, $1\mu\text{mol/L}$, StRt > 61%, $10\mu\text{mol/L}$, StRt > 61%, $100\mu\text{mol/L}$, StRt > 61%, 1mmol/L , StRt > 61%; *Allium cepa*, $1\mu\text{mol/L}$, StRt = (30–60)%, $10\mu\text{mol/L}$, StRt or InRt < 10%, $100\mu\text{mol/L}$, StRt = (10–30)%, 1mmol/L , StRt = (10–30)%)^[5217]. Source: DU ZHONG *Eucommia ulmoides*, LIAN QIAO *Forsythia suspensa* (fruit: content = 0.121%)^[5508], RI BEN BAI LA SHU *Fraxinus japonica*, RI BEN HUANG LIAN *Coptis japonica* (rhizome), RI BEN YU LIN SONG *Picea jezoensis*, SA HA LIN YUN SHAN *Picea glehnii* (stem cortex), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh leaf)^[4686], XI YANG JIE GU MU *Sambucus nigra*, YI YE TIE SHAN *Tsuga heterophylla*, ZHAI YE NAN YANG SHAN *Araucaria angustifolia*, *Wikstroemia* sp., *Pinus* sp. Ref: 658, 2582, 4416, 4530, 4686, 5028, 5217, 5508.

**17410 Pinoresinol O-[6-O-(E)-caffeoyl]-β-D-glucopyranoside**

$C_{35}H_{38}O_{14}$ (682.68). Amorphous powder, $[\alpha]_D^{22} = +39^\circ$ ($c = 0.69$, MeOH). Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

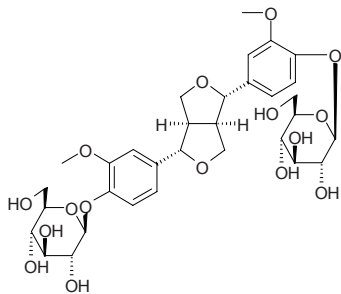
**17411 (+)-Pinoresinol-di-3,3-dimethylallyl ether**

$C_{30}H_{38}O_6$ (494.63). Pharm: Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. Source: *Zanthoxylum* sp. Ref: 2176.

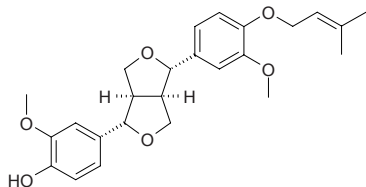


17412 (+)-Pinoresinol-di-O-β-D-glucoside

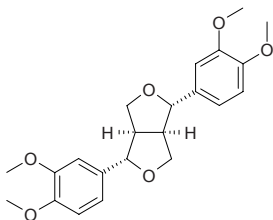
Pinoresinol-4,4'-di-O-β-D-glucoside C₃₂H₄₂O₁₆ (682.68). **Pharm:** Antihypertensive (spontaneous hypertensive rat, iv: 30mg/kg, lowers blood pressure by 25~35mmHg, 40mg/kg, 80mmHg, 100mg/kg, 90~120mmHg). **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DU ZHONG *Eucommia ulmoides* (bark: content scope of 7 origins = 0.043%~0.506%, mean content = 0.23%^[5508]), XIE CAO *Valeriana officinalis* (root: yield = 0.016%^[4656]). **Ref:** 2, 4656, 5501, 5508.

**17413 (+)-Pinoresinol-3,3-dimethylallyl ether**

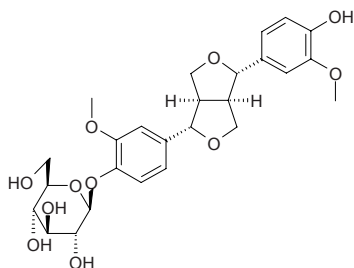
C₂₅H₃₀O₆ (426.51). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**17414 Pinoresinol dimethyl ether**

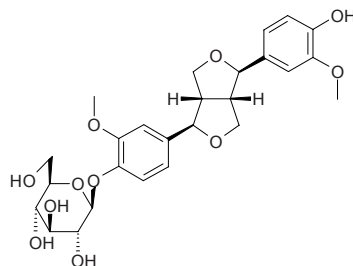
C₂₂H₂₆O₆ (386.45). **Source:** WANG CHUN YU LAN *Magnolia biondii* [Syn. *Magnolia fargesii*]. **Ref:** 543.

**17415 (+)-Pinoresinol O-β-D-glucopyranoside**

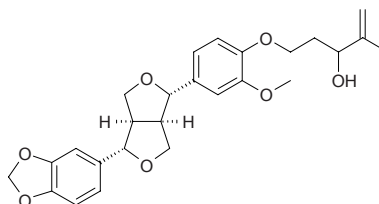
C₂₆H₃₂O₁₁ (520.54). **Pharm:** Aldose reductase inhibitor (IC₅₀ > 100μmol/L, 100μmol/L InRt = 37%, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4530]. **Source:** DU ZHONG *Eucommia ulmoides*, SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts), XIE CAO *Valeriana officinalis* (root)^[4656]. **Ref:** 2, 2545, 4184, 4530, 4656.

**17416 (-)-Pinoresinol O-β-D-glucopyranoside**

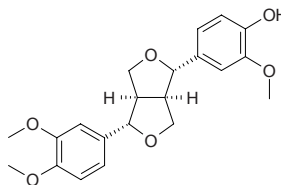
C₂₆H₃₂O₁₁ (520.54). **Pharm:** Antioxidant (*in vitro*, DPPH radical scavenger, IC₅₀ = 260μmol/L; control Vitamin E, IC₅₀ = 20.1μmol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.0113%^[dw]). **Ref:** 4787.

**17417 (+)-Pinoresinol-3-hydroxy-4-methyl-4-pentenyl ether**

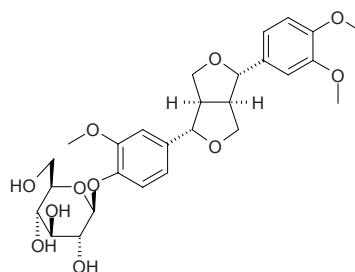
C₂₆H₃₀O₇ (454.52). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**17418 (+)-Pinoresinol monomethyl ether**

C₂₁H₂₄O₆ (372.42). **Source:** YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.0096%^[dw]). **Ref:** 4707.

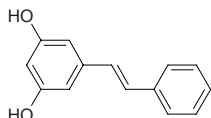
**17419 (+)-Pinoresinol monomethyl ether O-β-D-glucopyranoside**

C₂₇H₃₄O₁₁ (534.57). **Source:** YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.022%^[dw])^[4707], ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). **Ref:** 4292, 4707.

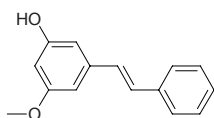


17420 Pinosylvin

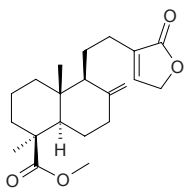
[22139-77-1] C₁₄H₁₂O₂ (212.25). **Pharm:** Antifungal (*Pyricularia grisea*, EC₅₀ = 7 μg/mL, EC₉₀ = 16 μg/mL; *Cladosporium herbarum*, EC₅₀ = 10 μg/mL, EC₉₀ = 58 μg/mL; *Fusarium avenaceum*, EC₅₀ = 36 μg/mL, EC₉₀ = 50 μg/mL; *Alternaria citri*, EC₅₀ = 35 μg/mL, EC₉₀ = 46 μg/mL; *Botrytis cinerea*, EC₅₀ = 11 μg/mL, EC₉₀ = 39 μg/mL)^[3751]; toxin (fungi, bacteria and some animals). **Source:** YIN DU HUANG TAN *Dalbergia sissoo*, XI BO DE QI MU *Alnus sieboldiana*, *Stemona cf. pierrei* (underground parts), *Pinus sp.*, *Nothofagus sp.* **Ref:** 658, 3751.

**17421 Pinosylvin methyl ether**

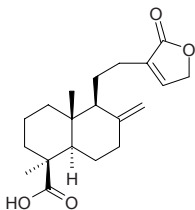
C₁₅H₁₄O₂ (226.28). **Pharm:** Antifungal; insect antifeedant ("Showshoe Hare" *Lepus americanus*). **Source:** MEI ZHOU LU QI MU *Alnus crispa*, XI BO DE QI MU *Alnus sieboldiana*, *Pinus sp.* **Ref:** 658.

**17422 Pinusolide**

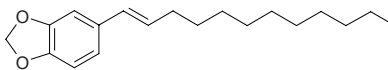
[31685-80-0] C₂₁H₃₀O₄ (346.47). Colorless oil, [α]_D²⁵ = +47° (c = 3.0, CHCl₃), [α]_D²³ = +58.5° (c = 0.1, CHCl₃); fine needles (pet. ether), mp 83–84°C, [α]_D²³ = +24° (MeOH). **Pharm:** PAF antagonist (*in vivo*, *in vitro*, IC₅₀ = 0.25 μmol/L, protects mus from lethality induced by PAF, ED₅₀ (iv) = 1.1 mg/kg, ED₅₀ (orl) = 69 mg/kg); Anti-inflammatory (mus, edema on ears caused by oleum crotonis, 2 mg/ear); antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (18.5 ± 1.6) μg/mL = (53.4 ± 4.6) μmol/L)^[3022]. **Source:** BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*], CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], HONG SONG *Pinus koraiensis*, TAI WAN GUO SONG *Pinus armandii* var. *mastersiana*, XI BO LI YA HONG SONG *Pinus sibirica*. **Ref:** 1521, 3022, 3233, 3234, 3235.

**17423 Pinusolidic acid**

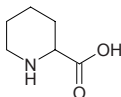
Pinusolide acid; Pinusolic acid C₂₀H₂₈O₄ (332.44). Colorless oil, [α]_D²⁵ = +53° (c = 0.36, CHCl₃), [α]_D²³ = +54.5° (c = 0.1, CHCl₃). **Pharm:** Antimalarial (*in vitro*, *Plasmodium falciparum* strain 3D7, IC₅₀ = (54.5 ± 1.4) μg/mL = (163.9 ± 4.2) μmol/L)^[3022]. **Source:** CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 3022.

**17424 Pipataline**

[18634-87-2] C₁₉H₂₈O₂ (288.43). mp 38°C. **Source:** *Piper peepuloides*. **Ref:** 3236.

**17425 Pipecolic acid**

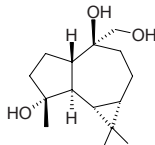
dl-Pipecolinic acid [535-75-1] C₆H₁₁NO₂ (129.16). mp (+) 270°C, (–) 270°C, (±) 264°C. **Pharm:** Germination inhibitor. **Source:** BAI FAN DOU *Phaseolus vulgaris*, BIAN DOU *Dolichos lablab*, CAN DOU *Vicia faba*, HAI JIU CAI *Triglochin maritimum*, SHENG JIANG *Zingiber officinale*, SUAN JIAO *Tamarindus indica*, WANG GUA ZI *Trichosanthes cucumeroides*. **Ref:** 6, 658.

**17426 D-α-Pipecoline**

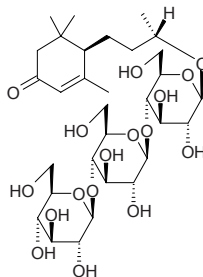
[109-05-7] C₆H₁₃N (99.18). bp (+) 117.0–117.5°C. **Source:** HAI SONG ZI *Pinus koraiensis*. **Ref:** 6.

**17427 Pipelol A**

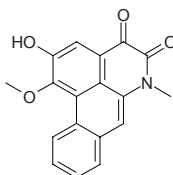
C₁₅H₂₆O₃ (254.37). Syrup, [α]_D¹⁹ = –14.3° (c = 1.2, MeOH). **Source:** CHANG HU JIAO *Piper elongatum* (aerial parts). **Ref:** 4239.

**17428 Pipeloside A**

C₃₁H₅₂O₁₇ (696.75). Syrup, [α]_D¹⁹ = +173.7° (c = 0.9, MeOH). **Source:** CHANG HU JIAO *Piper elongatum* (aerial parts). **Ref:** 4239.

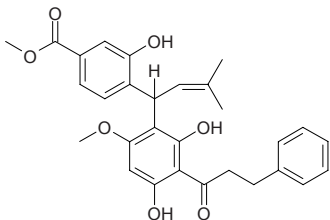
**17429 Piperadione**

Aristolodione [109771-09-7] C₁₈H₁₃NO₄ (307.31). Crystals (CHCl₃–MeOH), mp 273–276°C (dec). **Source:** BI BA GEN *Piper longum*, ZHI LI MA DOU LING *Aristolochia chilensis*. **Ref:** 3237, 3238.

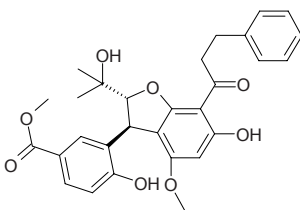


17430 Piperaduncin A

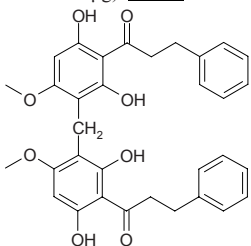
[155023-54-4] C₂₉H₃₀O₇ (490.56). Yellowish amorphous powder, $[\alpha]_D^{20} = -3.1^\circ$ ($c = 0.64$, MeOH). **Pharm:** Cytotoxic (KB, ED₅₀ = 2.3 μg/mL); antibacterial (*Bacillus subtilis* MIC = 1.6 μg on TLC plate, *Micrococcus luteus* MIC = 1.6 μg). **Source:** GOU ZHUANG HU JIAO *Piper aduncum*. **Ref:** 3702.

**17431 Piperaduncin B**

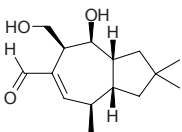
[155023-55-5] C₂₉H₃₀O₈ (506.56). Yellow oil, $[\alpha]_D^{20} = -15^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (KB, ED₅₀ = 4.7 μg/mL); antibacterial (*Bacillus subtilis* MIC = 0.2 μg on TLC plate, *Micrococcus luteus* MIC = 0.4 μg). **Source:** GOU ZHUANG HU JIAO *Piper aduncum*. **Ref:** 3702.

**17432 Piperaduncin C**

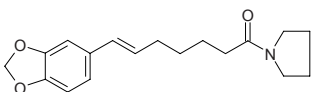
[155023-56-6] C₃₃H₃₂O₈ (556.62). Yellow amorphous powder. **Pharm:** Antibacterial (*Bacillus subtilis*, TLC plate, MIC = 1.5 μg, *Micrococcus luteus*, MIC = 3.0 μg). **Source:** GOU ZHUANG HU JIAO *Piper aduncum*. **Ref:** 3702.

**17433 Piperalol**

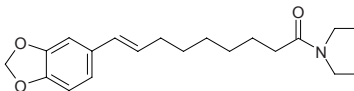
[100288-35-5] C₁₅H₂₄O₃ (252.36). Pungent oil, $[\alpha]_D^{23} = +57^\circ$ ($c = 4.3$, Et₂O). **Source:** LA RU GU *Lactarius piperatus* [Syn. *Agaricus piperatus*], MAO TOU RU GU *Lactarius torminosus*, *Lactarius necator*, *Russula queletii*. **Ref:** 3239.

**17434 Piperamide C 7:1(6E)**

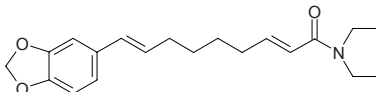
[117137-66-3] C₁₈H₂₃NO₃ (301.39). Oil. **Pharm:** Larvicidal. **Source:** HU JIAO *Piper nigrum*. **Ref:** 3240.

**17435 Piperamide C 9:1(8E)**

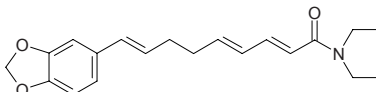
Tricholein [62510-52-5] C₂₀H₂₇NO₃ (329.44). Oil. **Pharm:** Larvicidal. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00019%dw), MAO SUI HU JIAO *Piper trichostachyon*. **Ref:** 3242, 3243, 3240, 4753.

**17436 Piperamide C 9:2(2E,8E)**

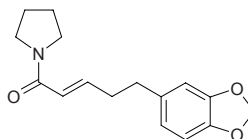
Brachyamide B [117137-67-4] C₂₀H₂₅NO₃ (327.43). Oil. **Pharm:** Larvicidal. **Source:** DUAN SUI HU JIAO *Piper brachystachyum*, HU JIAO *Piper nigrum* (root: yield = 0.000057%dw). **Ref:** 3240, 3244, 4753.

**17437 Piperamide C 9:3(2E,4E,8E)**

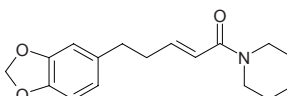
[117137-68-5] C₂₀H₂₃NO₃ (325.41). Yellow needles, mp 105~106°C. **Pharm:** Larvicidal. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.00011%dw). **Ref:** 3240, 4753.

**17438 Piperamine**

Piperamide C 5:1(2E); 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2E-pentenyl]pyrrolidine [117137-65-2] C₁₆H₁₉NO₃ (273.33). Oil. **Pharm:** Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0 μg, control Nystatin, MIA = 0.5 μg)^[5102]. **Source:** HU JIAO *Piper nigrum*, HU JIAO *Piper nigrum* (root: yield = 0.00016%dw), YING MAO HU JIAO *Piper hispidum* (stem). **Ref:** 3240, 3241, 4753, 5102.

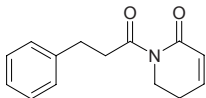
**17439 Piperanine**

1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2E-pentenyl]piperidine [23512-46-1] C₁₇H₂₁NO₃ (287.36). Colorless crystals. **Pharm:** Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (58.2±9.8)mm, control, length = (118.6±16.2)mm, InRt = 50.9%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (62.8±10.1)mm, control, length = (89.5±9.8)mm, InRt = 29.8%)^[4935]; antifungal (*Cladosporium sphaerospermum*, MIA = 5.0 μg, control Nystatin, MIA = 0.5 μg)^[5102]. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.000024%dw), LIU TU HU JIAO *Piper tuberculatum* (seed), *Piper chaba* (fruit). **Ref:** 6, 4753, 4935, 5102.

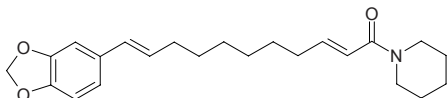


17440 Piperchabamide A

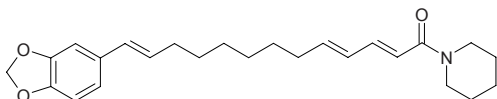
$C_{14}H_{15}NO_2$ (229.28). Colorless oil. Source: *Piper chaba* (fruit). Ref: 4935.

**17441 Piperchabamide B**

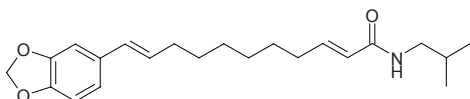
$C_{23}H_{31}NO_3$ (369.51). Colorless oil. Source: *Piper chaba* (fruit). Ref: 4935.

**17442 Piperchabamide C**

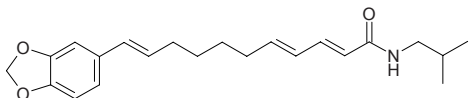
$C_{25}H_{33}NO_3$ (395.55). Colorless oil. Source: *Piper chaba* (fruit). Ref: 4935.

**17443 Piperchabamide D**

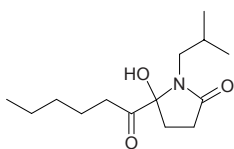
$C_{22}H_{31}NO_3$ (357.50). Colorless oil. Source: *Piper chaba* (fruit). Ref: 4935.

**17444 Pipericide**

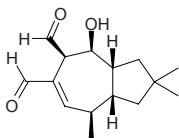
Retrofractamide B [54794-74-0] $C_{22}H_{29}NO_3$ (355.48). Crystals (EtOAc), mp 114–115°C. Pharm: Insecticidal. Source: CHANG GUO BI BA *Piper retrofractum*, HU JIAO *Piper nigrum*. Ref: 3245, 3240.

**17445 Pipericycliamide**

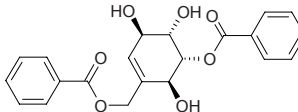
N-Isobutyl-4-hexanoyl-4-hydroxypyrrolidin-1-one $C_{14}H_{25}NO_3$ (255.36). Colorless oil, $[\alpha]_D^{25} = 0^\circ$ ($c = 1$, $CHCl_3$). Source: HU JIAO *Piper nigrum* (root: yield = 0.00056%dw). Ref: 4753.

**17446 Piperdial**

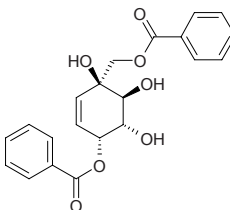
[100288-36-6] $C_{15}H_{22}O_3$ (250.34). Pungent oil, $[\alpha]_D^{23} = +77^\circ$ ($c = 0.8$, Et_2O). Source: LA RU GU *Lactarius piperatus* [Syn. *Agaricus piperatus*], MAO TOU RU GU *Lactarius torminosus*, *Lactarius necator*, *Russula queletii*. Ref: 3239.

**17447 Piperenol A**

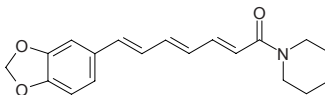
[134476-89-4] $C_{21}H_{20}O_7$ (384.39). Crystals (EtOAc–hexane), mp 48–49°C, $[\alpha]_D = +14.6^\circ$ ($c = 0.5$, MeOH). Source: BI CHENG QIE *Piper cubeba*, *Piper clarkii*. Ref: 3246.

**17448 Piperenol B**

[134476-91-8] $C_{21}H_{20}O_7$ (384.39). Semi-solid, $[\alpha]_D = +50^\circ$ ($c = 1$, MeOH). Source: BI CHENG QIE *Piper cubeba*, Ref: 3246.

**17449 Piperettine**

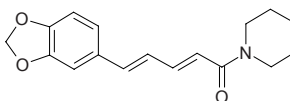
Piperamide A 7:3(2*E*,4*E*,6*E*) [583-34-6] $C_{19}H_{21}NO_3$ (311.38). Yellow needles (C_6H_6 –hexane), mp 148°C. Source: HU JIAO *Piper nigrum* (fruit: mean content = yield = 0.53%^[5508]; root: yield = 0.000014%dw^[4753]), *Piper aurantiacum*. Ref: 3240, 4753, 5508.

**17450 Piperidine**

Azacyclohexane [110-89-4] $C_5H_{11}N$ (85.15). mp –9°C, bp 106°C. Source: BI BA *Piper longum*, MA HUA *Cannabis sativa*. Ref: 6.

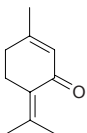
**17451 Piperine**

1,3-Benzodioxol-5-yl-1-oxo-2,4-pentadienylpiperine; (*E,E*)-Piperylpiperidine [94-62-2] $C_{17}H_{19}NO_3$ (285.35). Yellow needles, mp 129.5°C, almost insoluble in water, slightly soluble in ether, soluble in ethanol, easily soluble in chloroform, benzene, acetic acid.^[5507] Pharm: Anticonvulsant; pesticide; sedative; MAO-A inhibitor ($IC_{50} = 20.9\mu\text{mol/L}$); MAO-B inhibitor ($IC_{50} = 7.0\mu\text{mol/L}$); protective gastric lesions (rat, ethanol-induced, 6.25mg/kg orl, length = (113.0±13.1)mm, control, length = (122.6±11.3)mm, InRt = 7.8%; 25mg/kg orl, length = (54.8±6.3)mm, InRt = 55.3%; indomethacin-induced, 25mg/kg orl, length = (27.3±5.6)mm, control, length = (77.1±6.7)mm, InRt = 64.6%)^[4935]; LD_{50} (rat, ip) = 348.6mg/kg. Source: BI BA *Piper longum* (fruit-spike: content scope = 4%–6%^[5501]), BI BA GEN *Piper longum*, JI NEI YA HU JIAO *Piper guineense*, HU JIAO *Piper nigrum* (fruit: content scope = 3.15%–4.82%^[5501]), HU JIAO *Piper nigrum* (fruit: mean content = 4.32%^[5508]; root: yield = 0.000036%dw^[4753]), *Piper chaba* (fruit). Ref: 6, 658, 4482, 4753, 4935, 5501, 5507, 5508.

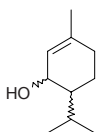


17452 Piperitenone

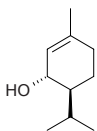
[491-09-8] C₁₀H₁₄O (150.22). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2.

**17453 Piperitol**

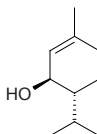
C₁₀H₁₈O (154.25). Source: AI YE *Artemisia argyi*, KUI HAO *Artemisia princeps*, MENG GU HAO *Artemisia mongolica*, ROU DOU KOU *Myristica fragrans*, YE AI HAO *Artemisia lavandulaefolia*. Ref: 3247, 3248, 1268.

**17454 (3R,4S)-(-)-trans-Piperitol**

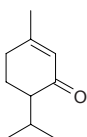
[25437-28-9] C₁₀H₁₈O (154.25). Oil, bp 98°C/15mmHg, [α]_D³⁵ = -25° (c = 2.1, C₆H₆). Source: *Mentha* spp., *Eucalyptus* spp. Ref: 1521, 3249.

**17455 (3S,4R)-(+)-cis-Piperitol**

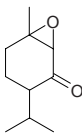
[65733-28-0] C₁₀H₁₈O (154.25). bp 101~104°C/16mmHg, [α]_D¹⁶ = +40.22° (+28°). Source: *Andropogon* sp. Ref: 1521, 3249.

**17456 Piperitone**

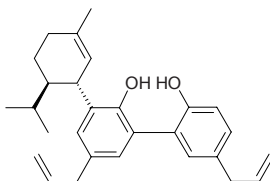
3-Methyl-6-(1-methylethyl)-2-cyclohexen-1-one [89-81-6] C₁₀H₁₆O (152.24). bp (+) 116.0~118.5°C/20mmHg, (-) 109.5~110.5°C/15mmHg, (±) 232~233°C/769mmHg. Pharm: Antiasthmatic (gpg, bronchospasm induced by histamine, im, 1.2mL/kg, tracheal smooth muscle relaxant); antibacterial (*α*-Streptococcus, *β*-Streptococcus, *Diplococcus pneumoniae* and *Staphylococcus aureus*); antitussive; LD₅₀ (mus, perfusion in stomach) = 4.32mg/kg. Source: FU AN *Eucalyptus dives*, HU JIAO *Piper nigrum*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], XI TE KA YUN SHAN *Picea sitchensis*, XIN NONG XIANG MAO *Cymbopogon sennaarensis*, YUN XIANG CAO *Cymbopogon distans*. Ref: 2, 4, 6, 658, 3112, 5501.

**17457 Piperitone oxide**

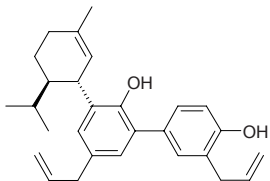
[5286-38-4] C₁₀H₁₆O₂ (168.24). Crystals (hexane), mp 14.5~15.5°C, [α]_D²² = -177.0° (c = 0.96, EtOH), d₂₅²⁵ = 1.01, n_D²⁰ = 1.4624. Source: SEN LIN BO HE *Mentha sylvestris*, YU XIANG CAO *Mentha rotundifolia*. Ref: 3250.

**17458 Piperitylmagnolol**

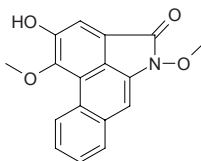
C₂₈H₃₄O₂ (402.58). Source: HOU PO *Magnolia officinalis*. Ref: 2.

**17459 Piperitylhonokiol**

C₂₈H₃₄O₂ (402.58). Source: HOU PO *Magnolia officinalis*. Ref: 2.

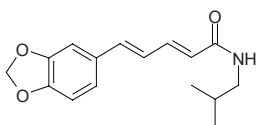
**17460 Piperlactam S**

Spiplactam S C₁₇H₁₃NO₄ (295.30). Pharm: Anti-inflammatory (modulator of cytokine network: inhibits C5a-induced release of TNF-α and IL-1β in RAW264.7 macrophages)^[4416]; antioxidant (1~20μmol/L, prevention of copper-induced LDL peroxidation; amelioration of freeradical-Induced oxidative stress of endothelial cells; attenuate Fe²⁺-in-duced oxidation of cell membrane; effectively minimizes H₂O₂/FeSO₄-induced loss of cell viability in cultured endothelial cells and significantly reversed H₂O₂/FeSO₄-induced impairment of endothelium-dependent relaxation to acetylcholine in rat aorta; may help to reduce the risk of atherosclerosis)^[5353]; anti-Inflammatory (modulation of C5a-induced chemotaxis and inflammatory cytokines production in macrophages: 1~30μmol/L Piperlactam S suppresses C5a-induced migration across a fibrinogen-coated barrier, IC₅₀ = (4.5±0.3)μmol/L; At 30μmol/L, piperlactam S inhibits chemotaxis by more than 95% and also decreased phagocytosis by 25% without reducing macrophage viability and adherent capacity; inhibits C5a-stimulated release of TNF-α and IL-1β; retardation of macrophage recruitment and suppression of cytokines production might underlie potential usefulness of piperlactam S as an anti-inflammatory agent)^[5354]. Source: HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*]. Ref: 4416, 5353, 5354.

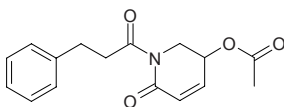


17461 Piperlonguminine

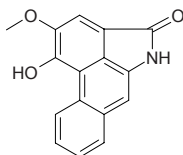
[5950-12-9] C₁₆H₁₉NO₃ (273.33). Colorless crystals, mp 166~168°C. **Pharm:** Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (51.7±9.7)mm, control, length = (118.6±16.2)mm, InRt = 56.4%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (73.6±12.8)mm, control, length = (89.5±9.8)mm, InRt = 17.8%)^[4935]; melanogenesis inhibitor (melanoma B16 cells, inhibits α -melanocyte-stimulating hormone (α -MSH)-induced melanogenesis, 25 μ mol/L, InRt = (85.1±4.9)%, 12.5 μ mol/L, InRt = (62.1±6.1)%, 6.3 μ mol/L, InRt = (36.4±4.6)%, 3.1 μ mol/L, InRt = (18.4±5.1)%, IC₅₀ = 9.6 μ mol/L; control, Kojic acid, IC₅₀ = 44.6 μ mol/L; inhibits α -MSH-induced tyrosinase synthesis, does not inhibit tyrosinase activity or directly depigments melanin)^[4083]. **Source:** BI BA GEN *Piper longum*, *Piper chaba* (fruit), BI BA *Piper longum* (fruit). **Ref:** 6, 4083, 4935.

**17462 Pipermethystine**

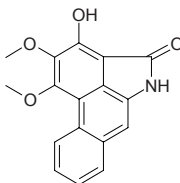
C₁₆H₁₇NO₄ (287.32). Colorless oil, [α]_D²³ = -176.4° (c = 0.49, Me₂CO). **Source:** KA WA HU JIAO *Piper methysticum*. **Ref:** 3373.

**17463 Piperolactam A**

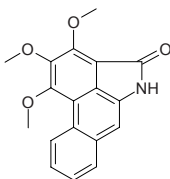
[112501-42-5] C₁₆H₁₁NO₃ (265.27). Crystals, (C₆H₆-MeOH), mp 303~306°C (dec), mp 271~273°C (EtOAc). **Pharm:** Platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μ g/mL, add thrombin 0.1u/mL, cause platelet aggregation, control AggRt = (92.6±0.4)%; add AA, 100 μ mol/L, 100 μ g/mL, cause platelet aggregation, 20 μ g/mL, AggRt = (83.0±0.3)%, control AggRt = (87.8±0.3)%; add collagen 10 μ g/mL, 100 μ g/mL, cause platelet aggregation, 20 μ g/mL, AggRt = (87.5±0.2)%, control AggRt = (89.3±0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 100 μ g/mL, cause platelet aggregation, control AggRt = (93.0±0.6)%)^[4938]. **Source:** BI BA GEN *Piper longum*, LUAN YE HU JIAO *Piper attenuatum*, TAI WAN HU JIAO *Piper taiwanense* (stem), YU XING CAO *Houttuynia cordata*, ZHU YE JU *Piper boehmeriaefolium*, *Piper hamiltonii*, *Parastolochia flos-avis*. **Ref:** 1521, 2428, 2713, 3238, 4938.

**17464 Piperolactam B**

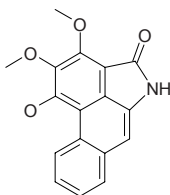
[116084-93-6] C₁₇H₁₃NO₄ (295.30). Crystals, (MeOH), mp 212~214°C. **Pharm:** Platelet aggregation inhibitor (rbt platelets induced by thrombin, 50 μ g/mL, add thrombin 0.1u/mL, AggRt = (51.0±0.7)%, control AggRt = (92.6±0.4)%; add AA 100 μ mol/L, 20 μ g/mL, AggRt = (72.0±0.7)%, control AggRt = (87.8±0.3)%, Aspirin 50 μ g/mL, AggRt = (11.7±10.1)%; add collagen 10 μ g/mL, 20 μ g/mL, AggRt = (64.7±3.0)%, control AggRt = (89.3±0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 50 μ g/mL, AggRt = (73.0±1.4)%, control AggRt = (93.0±0.6)%)^[4938]. **Source:** BI BA GEN *Piper longum*, TAI WAN HU JIAO *Piper taiwanense* (stem), ZHU YE JU *Piper boehmeriaefolium*. **Ref:** 1521, 2713, 3238, 4938.

**17465 Piperolactam C**

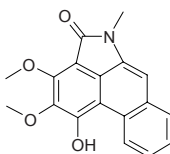
[116064-76-7] C₁₈H₁₅NO₄ (309.32). Crystals, (C₆H₆-MeOH), mp 187~188°C. **Source:** BI BA GEN *Piper longum*, TAI WAN HU JIAO *Piper taiwanense* (stem), ZHU YE JU *Piper boehmeriaefolium*. **Ref:** 2713, 4938.

**17466 Piperolactam D**

[128718-51-4] C₁₇H₁₃NO₄ (295.30). Yellow crystals, (C₆H₆-MeOH), mp 226~227°C. **Source:** BI BA GEN *Piper longum*, LUAN YE HU JIAO *Piper attenuatum*, ZHU YE JU *Piper boehmeriaefolium*. **Ref:** 3251.

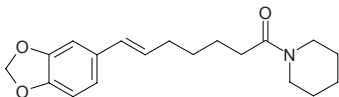
**17467 Piperolactam E**

C₁₈H₁₅NO₄ (309.32). Grayish needles (benzene-MeOH), mp 179~181°C. **Pharm:** Platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μ g/mL, add thrombin 0.1u/mL, AggRt = (79.7±1.2)%, control AggRt = (92.6±0.4)%; add AA 100 μ mol/L, 100 μ g/mL, AggRt = (49.3±3.8)%, control AggRt = (87.8±0.3)%, Aspirin 50 μ g/mL, AggRt = (11.7±10.1)%; add collagen 10 μ g/mL, 100 μ g/mL, AggRt = (0.0±0.0)%, 20 μ g/mL, AggRt = (74.0±2.5)%, control AggRt = (89.3±0.5)%, Aspirin 100 μ g/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 100 μ g/mL, AggRt = (66.7±4.3)%, control AggRt = (93.0±0.6)%). **Source:** TAI WAN HU JIAO *Piper taiwanense* (stem). **Ref:** 4938.

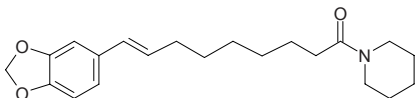


17468 Piperolein A

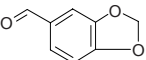
[30505-92-1] C₁₉H₂₅NO₃ (315.42). Pale-yellow oil. Source: HU JIAO *Piper nigrum*. Ref: 3252.

**17469 Piperolein B**

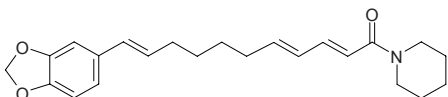
1-[1-Oxo-9(3,4-methylenedioxyphenyl)-8E-nonenyl]piperidine; Piperamide A 9:1(8E) C₂₁H₂₉NO₃ (343.47). Source: HU JIAO *Piper nigrum* (root: yield = 0.00049%dw). Ref: 3240, 4753.

**17470 Piperonal**

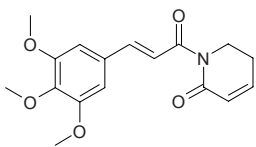
Piperonylaldehyde [120-57-0] C₈H₆O₃ (150.11). mp 37°C. Pharm: Kills body louse. Source: CI HUAI HUA *Robinia pseudoacacia*, HU JIAO *Piper nigrum*, PENG ZI CAI *Galium verum*, SHOU ZHANG SHEN *Gymnadenia conopsea*, *Heliotropium* sp., *Vanilla* sp., *Viola* sp. Ref: 6, 658.

**17471 Piperundecalidine**

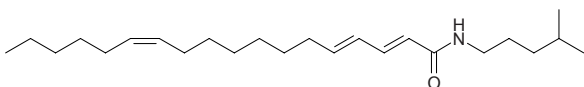
[88660-11-1] C₂₃H₂₉NO₃ (367.49). Crystals, (EtOAc-hexane), mp 64.5-65.5°C. Source: BI BA *Piper longum*. Ref: 3253.

**17472 Piplartine**

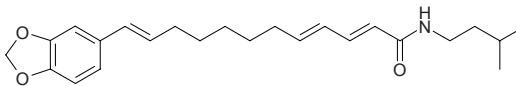
N-(3',4',5'-Trimethoxycinnamoyl)-2-pyridin-2-one [20069-09-4] C₁₇H₁₉NO₅ (317.34). Pale yellow needles (MeOH), mp 124-126°C. Pharm: Antiasthmatic (effective treatment for asthma and chronic bronchitis); antihypertensive (dog, 0.1mg/kg); inhibits ileac tension and contractility (rbt, rat). Source: BI BA *Piper longum*, CHANG BING HU JIAO *Piper sulvaticum*, BI BA GEN *Piper longum*, *Piper cenocladum* (leaf). Ref: 6, 658, 3896, 5501.

**17473 Pipnoohine**

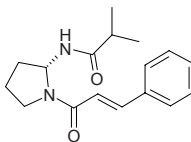
(2E,4E,12Z)-*N*-(4-Methylpentyl)octadeca-2,4,12-trienamide C₂₄H₄₃NO (361.62). Amorphous powder. Pharm: Pesticide (fourth instar larvae of *Aedes aegypti*, WHO method, 35.0mg/L)^[2559]. Source: HU JIAO *Piper nigrum*. Ref: 2559.

**17474 Pipyahyine**

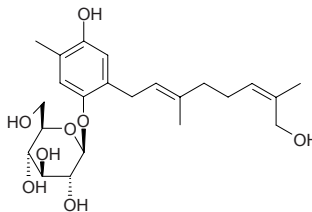
(2E,4E,11E)-12-(Benzo[1,3]dioxol-5-yl)-*N*-(3-methylbutyl)dodeca-2,4,11-triene n-amide C₂₄H₃₃NO₃ (383.54). White needles (pet. ether : EtOAc = 7:3), mp 109-110.5°C. Pharm: Pesticide (fourth instar larvae of *Aedes aegypti*, WHO method, 30.0mg/L). Source: HU JIAO *Piper nigrum*. Ref: 2559.

**17475 Piriferine**

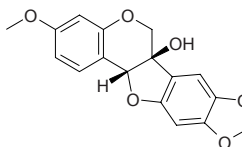
[113689-36-4] C₁₇H₂₂N₂O₂ (286.38). Crystals, mp 164-165.5°C (Et₂O-CHCl₃), [α]_D²⁸ = +30° (c = 0.01, absolute alcohol). Pharm: Promotes cytotoxic effects of vincalukoblastine (KB-VI ED₅₀ = 10μg/mL, with 1mg/mL vincalukoblastine ED₅₀ = 8.5μg/mL). Source: DA YE SHU LAN *Aglaia elliptifolia* (leaf: yield = 0.00015%dw)^[3031], LI MI ZI LAN *Aglaia pirifera*. Ref: 3031, 3628.

**17476 Pirolatin**

[23176-70-7] C₂₃H₃₄O₈ (438.52). Crystals +1H₂O (MeOH aq.), mp 168-170°C, [α]_D²⁵ = -35.3° (c = 1.015, EtOH). Source: RI BEN LU TI CAO *Pyrola japonica*, family Pyrolaceae spp. Ref: 3254.

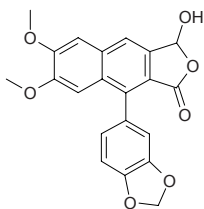
**17477 Pisatin**

[20186-22-5] C₁₇H₁₄O₆ (314.30). Crystals(petroleum ether), mp 72°C, [α]_{578nm}²⁰ = +280° (c = 0.11, ether). Pharm: Antifungal (genus *Sclerotinia*, ED₅₀ = 0.1mmol/L, CIC = 0.28mmol/L). Source: WAN DOU *Pisum sativum*. Ref: 661.

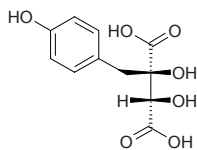


17478 Piscatorin

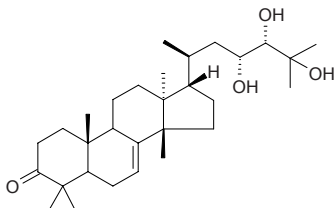
$C_{21}H_{16}O_7$ (380.36). White amorphous powder, mp 247°C. **Pharm:** Antifungal (*Aspergillus fumigatus*, MIC $\geq 3\mu\text{g/mL}$, Miconazole nitrate, MIC $\geq 0.5\mu\text{g/mL}$; *Candida albicans*, MIC $\geq 8\mu\text{g/mL}$, Miconazole nitrate, MIC $\geq 0.2\mu\text{g/mL}$; *Aspergillus flavus*, MIC $\geq 25\mu\text{g/mL}$, Miconazole nitrate, MIC $\geq 0.2\mu\text{g/mL}$; *Blastoschizomyces capitatus*, MIC $\geq 128\mu\text{g/mL}$, Miconazole nitrate, MIC $\geq 1\mu\text{g/mL}$; *Cryptococcus neoformans*, MIC $\geq 128\mu\text{g/mL}$); antiprotozoal (*Trypanosoma brucei rhodesiense*, IC₅₀ = 2.3 $\mu\text{g/mL}$, control Melarsoprol, IC₅₀ = 0.003 $\mu\text{g/mL}$; *Trypanosoma cruzi*, IC₅₀ > 4 $\mu\text{g/mL}$, control Benznidazol, IC₅₀ = 0.27 $\mu\text{g/mL}$; *Plasmodium falciparum* (strain K1), IC₅₀ > 5 $\mu\text{g/mL}$, control Chloroquine, IC₅₀ = 0.12 $\mu\text{g/mL}$); cytotoxic (Jurkat-T, IC₅₀ = 14 $\mu\text{g/mL}$, control Helenalin, IC₅₀ = 0.03 $\mu\text{g/mL}$; KB, IC₅₀ = 10 $\mu\text{g/mL}$, control Helenalin, IC₅₀ = 0.2 $\mu\text{g/mL}$; L-6, IC₅₀ > 15 $\mu\text{g/mL}$; PBMC, IC₅₀ > 15 $\mu\text{g/mL}$, control Helenalin, IC₅₀ = 0.03 $\mu\text{g/mL}$); piscicide (adult zebra fishes *Brachydanio rerio*, LC₁₀₀ = 1.0 $\mu\text{g/mL}$, time = 25–35min; control Rotenone, LC₁₀₀ = 1.0 $\mu\text{g/mL}$, time = 20–30min; negative control Catechin, LC₁₀₀ > 200 $\mu\text{g/mL}$, time > 120min). **Source:** YU FU YE XIA ZHU *Phyllanthus piscatorum*. **Ref:** 5393.

**17479 Piscidic acid**

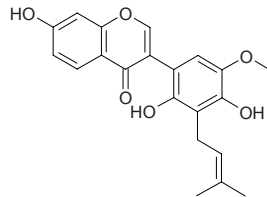
p-Hydroxybenzyltartaric acid [35388-57-9] $C_{11}H_{12}O_7$ (256.21). Elongated prisms (EtOAc-CHCl₃), mp 186–187°C, $[\alpha]_D^{20} = +41.03^\circ$ ($c = 2.65$, H₂O). **Source:** CHUAN LONG SHU YU *Dioscorea nipponica*, FAN MA *Agave americana*, HONG KOU SHUI XIAN *Narcissus poeticus*, LI GUO XIAN REN ZHANG *Opuntia ficus-indica*, YA MAI JIA DU YU DOU *Piscidia erythrina*. **Ref:** 3255, 3256, 3257.

**17480 Piscidinol A**

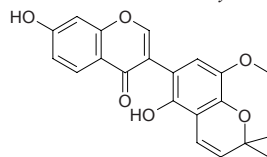
[100198-09-2] $C_{30}H_{50}O_4$ (474.73). Crystals (MeOH), mp 195°C, $[\alpha]_D^{25} = -90^\circ$ ($c = 1$, CHCl₃). **Source:** HUANG PI SHU *Phellodendron chinense*, PI XI DI GE SHE SHU *Walsura piscidia*, NI LUO HE JIN YIN LIAN *Turraea nilotica*, *Eurycoma* sp. **Ref:** 1521, 2663, 4556.

**17481 Piscisoflavone A**

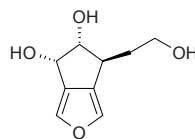
[141968-01-6] $C_{21}H_{20}O_6$ (368.39). Yellowish glue with modera fluorescence. **Pharm:** Antifungal (*Cladosporium* sp., TLC chromatoplate 50 μg , diameter of bacterial inhibition zone = 15mm). **Source:** YA MAI JIA DU YU DOU *Piscidia erythrina*. **Ref:** 3629.

**17482 Piscisoflavone B**

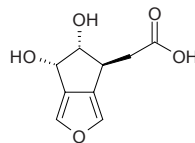
[141968-02-7] $C_{21}H_{18}O_6$ (366.37). Yellow prisms with modera fluorescence, mp 212–213°C. **Pharm:** Antifungal (*Cladosporium* sp., TLC chromatoplate 50 μg , diameter of bacterial inhibition zone = 12mm). **Source:** YA MAI JIA DU YU DOU *Piscidia erythrina*. **Ref:** 3629.

**17483 Piscirocin A**

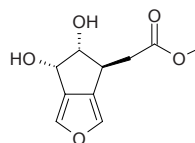
(4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta[*c*]furan-4-ethanol $C_9H_{12}O_4$ (184.19). Colorless plates, mp 88–90°C (MeOH), $[\alpha]_D^{20} = -50.2^\circ$ ($c = 1.0$, MeOH). **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4966.

**17484 Piscirocin B**

(4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta-*c*]furan-4-acetic acid $C_9H_{10}O_5$ (198.18). White amorphous powder, mp 160–162°C (MeOH), $[\alpha]_D^{20} = -50.2^\circ$ ($c = 0.3$, MeOH). **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4966.

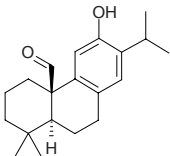
**17485 Piscirocin C**

(4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta-*c*]furan-4-acetic acid methyl ester $C_{10}H_{12}O_5$ (212.20). Colorless oil, mp 88–90°C (MeOH), $[\alpha]_D^{20} = -34.5^\circ$ ($c = 0.4$, MeOH). **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4966.

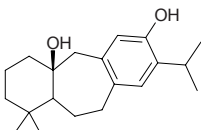


17486 Pisiferal

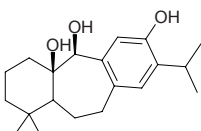
[24035-37-8] C₂₀H₂₈O₂ (300.44). Colorless needles (benzene–Et₂O), mp 80–82°C, [α]_D²⁵ = 164.1° (c = 0.61, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 25 μg/mL; *Bacillus subtilis*, MIC = 25 μg/mL)^[4144]; used in treatment of skin disease (acne, scurf)^[900]; deodorant (bad breath, foot osmyl, hircus)^[900]; antioxidant^[900]. **Source:** DU YU SHU WEI CAO *Salvia pisdica*, JU MI SHU WEI CAO *Salvia mellifera*, RI BEN HUA BAI *Chamaecyparis pisifera*, WEI SHI SHU WEI CAO *Salvia wiedemanni*, XIAO GAI SHU WEI CAO *Salvia microstegia*. **Ref:** 900, 4144.

**17487 Pisiferanol**

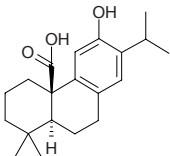
C₂₀H₃₀O₂ (302.46). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 25 μg/mL; *Bacillus subtilis*, MIC = 25 μg/mL)^[4144]. **Source:** GAN XI SHU WEI CAO *Salvia przewalskii*, RI BEN HUA BAI *Chamaecyparis pisifera*. **Ref:** 1521, 4144, 4538.

**17488 Pisiferdiol**

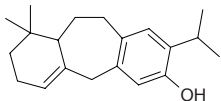
C₂₀H₃₀O₃ (318.46). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 100 μg/mL; *Bacillus subtilis*, MIC = 50 μg/mL). **Source:** RI BEN HUA BAI *Chamaecyparis pisifera* (leaf). **Ref:** 4144.

**17489 Pisiferic acid**

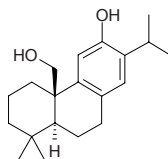
[67494-15-9] C₂₀H₂₈O₃ (316.44). Colorless prisms, mp 155–160°C, [α]_D²⁰ = +177° (c = 0.35, MeOH). **Pharm:** Cytotoxic (HeLa-S3, inhibits biosynthesis of DNA)^[900]; antibacterial (*Staphylococcus aureus*, MIC = 25 μg/mL; *Bacillus subtilis*, MIC = 25 μg/mL)^[4144]; antibacterial (gram-positive and gram-negative bacteria, *Proteus vulgaris*, *Pyricularia oryzae*, *Pseudomonas* sp.)^[900]; antioxidant (stronger than VE)^[900]. **Source:** JIAO NIAN XIANG CHA CAI *Isodon glutinosa*, RI BEN HUA BAI *Chamaecyparis pisifera*. **Ref:** 900, 4144.

**17490 Pisiferin**

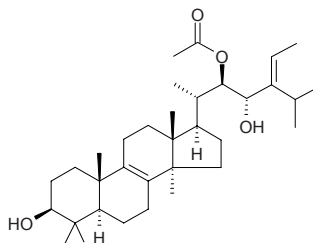
[76210-23-6] C₂₀H₂₈O (284.45). **Source:** GAN XI SHU WEI CAO *Salvia przewalskii*, RI BEN HUA BAI *Chamaecyparis pisifera*. **Ref:** 1521, 4538.

**17491 Pisiferol**

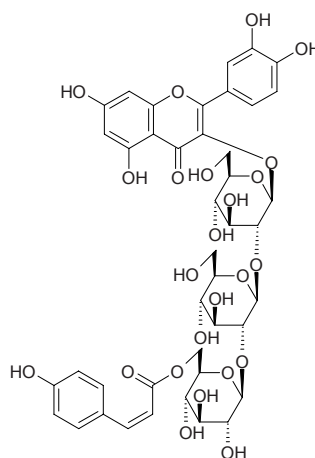
[24035-36-7] C₂₀H₃₀O₂ (302.46). Needles (benzene–Et₂O), mp 95–97°C (Et₂O/ethane), [α]_D²⁶ = +80.6° (c = 0.85, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, MIC = 25 μg/mL; *Bacillus subtilis*, MIC = 25 μg/mL)^[4144]; used in treatment of skin disease (acne, scurf)^[900]; deodorant (bad breath, foot osmyl, hircus)^[900]; antioxidant (stronger than VE)^[900]. **Source:** RI BEN HUA BAI *Chamaecyparis pisifera*. **Ref:** 900, 4144.

**17492 Pisosterol**

Mutumul [97091-00-4] C₃₄H₅₆O₄ (528.82). **Source:** DOU BAO JUN *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*]. **Ref:** 3258, 3259, 3260.

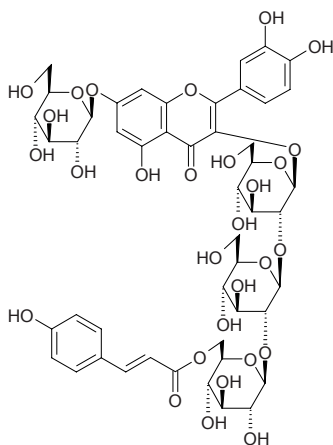
**17493 Pisumflavonoid I**

Quercetin-3-*O*-(6-*O*-*cis-p*-coumaroyl)-β-*D*-glucopyranosyl (1→2)-β-*D*-glucopyranosyl (1→2)-β-*D*-glucopyranoside C₄₂H₄₆O₂₄ (934.82). Yellow powder, [α]_D²⁵ = –38.2° (c = 0.3, MeOH). **Pharm:** Hepatoprotective (*in vitro*, mus primary cultured hepatocytes, inhibits liver cytotoxicity induced by GaIN, 100 μmol/L, InRt = (12.1±1.5)%, *p*<0.01). **Source:** WAN DOU *Pisum sativum* (young seedpot). **Ref:** 4110.

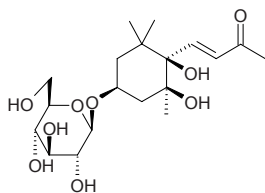


17494 Pisumflavonoid II

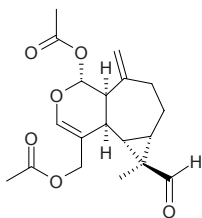
7-*O*- β -D-Glucopyranosyl-quercetin 3-*O*-(6-*O*-*trans*-*p*-coumaroyl)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside
 C₄₈H₅₆O₂₉ (1096.96). Yellow powder, $[\alpha]_D^{25} = -59.0^\circ$ ($c = 0.3$, MeOH).
Pharm: Hepatoprotective (*in vitro*, mus primary cultured hepatocytes, inhibits liver cytotoxicity induced by GaIn, 100 μ mol/L, InRt = (15.5 \pm 1.0)%, $p < 0.01$).
Source: WAN DOU *Pisum sativum* (young seedpot). **Ref:** 4110.

**17495 Pisumionoside**

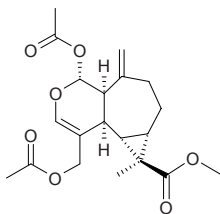
C₁₉H₃₂O₉ (404.46). White powder, $[\alpha]_D^{26} = -3.4^\circ$ ($c = 0.2$, MeOH). **Source:** WAN DOU *Pisum sativum* (young seedpot). **Ref:** 4110.

**17496 Plagiochiline T**

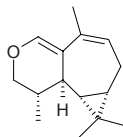
2 α ,15-Diacetoxy-2,3-epoxy-2,3-seco-(1 α ,5 α ,6 β ,7 β)-aromadendra-3,10(14)-dien-13-al C₁₉H₂₄O₆ (384.40). **Source:** *Plagiochila carringtonii*. **Ref:** 2307.

**17497 Plagiochiline U**

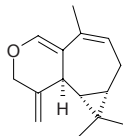
Methyl-2 α ,15-diacetoxy-2,3-epoxy-2,3-seco-(1 α ,5 α ,6 β ,7 β)-aromadendra-3,10(14)-dien-13-oate C₂₀H₂₆O₇ (378.43). **Source:** *Plagiochila carringtonii*. **Ref:** 2307.

**17498 (+)-Plagiochiline W**

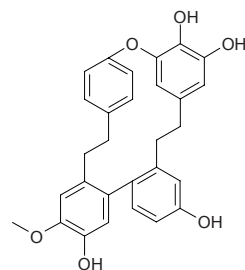
C₁₅H₂₂O (218.34). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

**17499 (+)-Plagiochiline X**

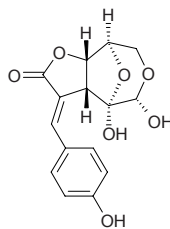
C₁₅H₂₀O (216.33). Colorless oil. **Source:** TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). **Ref:** 5257.

**17500 Plagiochin A**

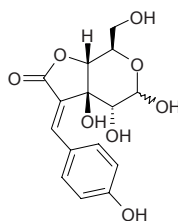
[112923-41-8] C₂₉H₂₆O₆ (470.53). / **Pharm:** Nourishes nerve (neurite outgrowth enhancer). **Source:** RI BEN DUO CI YU TAI *Plagiochila acanthophylla* ssp. *japonica*, *Plagiochila siophila*. **Ref:** 3703, 3704.

**17501 Plagiogyrin A**

[91486-94-1] C₁₅H₁₄O₇ (306.27). Needles (MeOH), mp 223~225°C, $[\alpha]_D^{25} = +438.0^\circ$ ($c = 1.0$, MeOH). **Source:** ER XING LIU ZU JUE *Plagiogyria stenoptera*, HUA ZHONG LIU ZU JUE *Plagiogyria euphlebia*, *Plagiogyria matsumureana*. **Ref:** 3261, 3262.

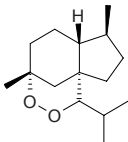
**17502 Plagiogyrin B**

[91486-95-2] C₁₅H₁₆O₈ (324.29). Oil, $[\alpha]_D^{22} = +94.1^\circ$ ($c = 1.0$, MeOH). **Source:** DAO YE LIU ZU JUE *Plagiogyria dumii*, *Plagiogyria matsumureana*. **Ref:** 3261, 3262.

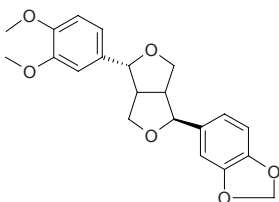


17503 (+)-Plagio-4,7-peroxide

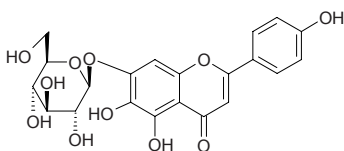
$C_{15}H_{26}O_2$ (238.37). Colorless oil. Source: TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). Ref: 5257.

**17504 L-Planinin**

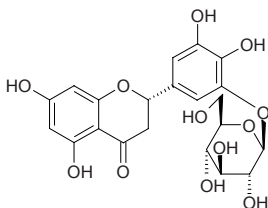
(1*R*,2*R*,5*R*,6*S*)-2-(3',4'-Dimethoxy-phenyl)-6-(3'',4''-methylene dioxyphenyl)-3,7-dioxabicyclo(3,3,0) octane $C_{21}H_{22}O_6$ (370.41). Colorless columnar crystals, mp 133.0~133.5°C. Source: ZHU YE JIAO *Zanthoxylum planispinum*. Ref: 106.

**17505 Plantaginin**

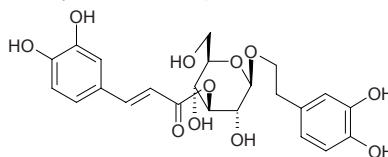
[26046-94-6] $C_{21}H_{20}O_{11}$ (448.39). mp 214°C. Pharm: Antitussive (dispels phlegm, effective component in *Plantago asiatica* CHE QIAN); CNS activity (causes heart beat to slow and amplitude to increasing in low dose; causes heart paralysis and hypotension in high dose); promotes intestinal and uterine motion; low toxin. Source: CHE QIAN *Plantago asiatica*, CHE QIAN *Plantago asiatica* (seed). Ref: 6, 658, 5501.

**17506 Plantagoside**

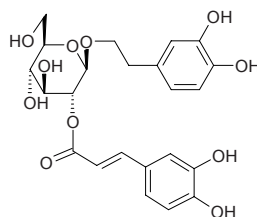
[78708-33-5] $C_{21}H_{22}O_{12}$ (466.40). Colorless acicular crystals (methanol), mp 208~211°C, 241~243°C (dec, two melting points), $[\alpha]_D^{25} = -44.4^\circ$ ($c = 0.61$, methanol). Pharm: Inhibits lymphocyte reproduction caused by sheep red blood cell antibody and concanavalin A (ConA, $IC_{50} = 1.8\mu\text{g/mL}$); selective α -mannosidase inhibitor. Source: CHE QIAN *Plantago asiatica*, DA CHE QIAN *Plantago major* (dried ripe fruit: mean content of 7 origins = 0.66%)^[5508]. Ref: 942, 1000, 1028, 5508.

**17507 Plantainoside A**

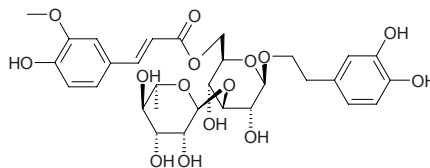
Plantagoside A [136172-59-3] $C_{23}H_{26}O_{11}$ (478.46). $[\alpha]_D^{23} = +4.5^\circ$ ($c = 1.47$, methanol). Pharm: Antioxidant (microsome of murine hepatic cells, inhibits lipid peroxidation induced by ADP+NADPH, $IC_{50} = 0.54\mu\text{mol/L}$). Source: CHE QIAN *Plantago asiatica*, JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.012%fw). Ref: 1127, 4664.

**17508 Plantainoside B**

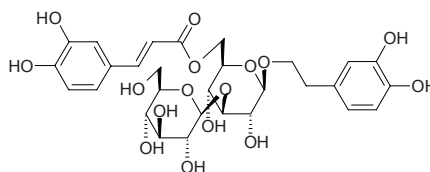
[136083-85-7] $C_{23}H_{26}O_{11}$ (478.46). Amorphous, $[\alpha]_D^{23} = -54.6^\circ$ ($c = 0.27$, MeOH). Pharm: Antioxidant (lipid peroxidation inhibitor, rat, hepatic cellular microsome, induced by ADP+NADPH, $IC_{50} = 0.49\mu\text{mol/L}$); platelet aggregation inhibitor (caused by collagen, marked inhibiting). Source: CHE QIAN *Plantago asiatica*, JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.00094%fw). Ref: 1127, 3263, 4254, 4664.

**17509 Plantainoside C**

[136083-86-8] $C_{30}H_{38}O_{15}$ (638.63). $[\alpha]_D^{23} = -238.1^\circ$ ($c = 0.07$, MeOH). Source: CHE QIAN *Plantago asiatica*, DA YE ZUI YU CAO *Buddleja davidii*. Ref: 1127, 3264.

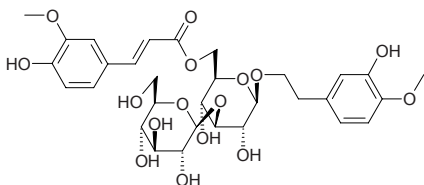
**17510 Plantainoside D**

[136083-87-9] $C_{29}H_{36}O_{16}$ (640.60). Amorphous powder, $[\alpha]_D^{23} = -24.8^\circ$ ($c = 1.07$, MeOH). Pharm: Antioxidant (hydroxyl radical scavenger, $IC_{50} = 39.3\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 74.8\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$)^[4289]; antioxidant (lipid peroxidation inhibitor, rat, hepatic cellular microsome, induced by ADP+NADPH, $IC_{50} = 0.36\mu\text{mol/L}$). Source: BIAN DA XIU QIU *Hemiphragma heterophyllum*, CHANG YE CHE QIAN *Plantago lanceolata*, CHE QIAN *Plantago asiatica*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root), YU ZAN YE CHE QIAN *Plantago hostifolia*. Ref: 1127, 3265, 3266, 4289, 5020.

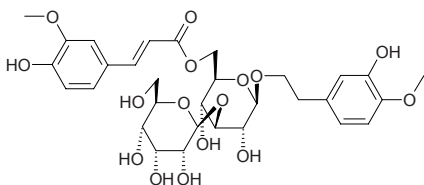


17511 Plantainoside E

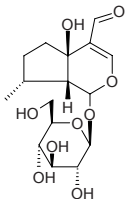
Scroside B [136083-88-0] C₃₁H₄₀O₁₆ (668.65). [α]_D²³ = -32.7° (*c* = 0.84, MeOH). **Pharm:** Antioxidant (hydroxyl radical scavenger, IC₅₀ = 94.9 μmol/L, control Ascorbic acid, IC₅₀ = 51.8 μmol/L, superoxide anion radical scavenger, IC₅₀ = 233.0 μmol/L, control Ascorbic acid, IC₅₀ = 86.2 μmol/L)^[4289]. **Source:** CHE QIAN *Plantago asiatica*, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 1127, 4289.

**17512 Plantainoside F**

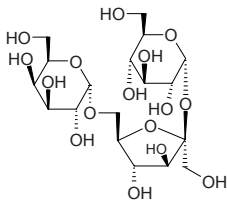
[136029-89-5] C₃₁H₄₀O₁₆ (668.65). [α]_D²³ = -60.6° (*c* = 0.31, MeOH). **Source:** CHE QIAN *Plantago asiatica*. **Ref:** 660, 1127.

**17513 Plantarenaloid**

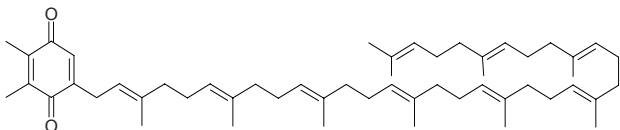
Yuheinoside [72396-01-1] C₁₆H₂₄O₉ (360.36). Amorphous, [α]_D²⁵ = -188.8° (*c* = 1.2, MeOH). **Source:** DA CHE QIAN *Plantago major*, HUANG ZHONG HUA *Tecoma stans*, SONG HAO *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], *Leucocarpus perfoliatus*. **Ref:** 1521, 3267, 1259.

**17514 Planteose**

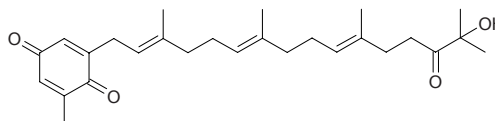
[470-57-5] C₁₈H₃₂O₁₆ (504.45). mp 123~124°C. **Source:** LUO LE ZI *Ocimum basilicum*. **Ref:** 6, 1521.

**17515 Plastoquinone**

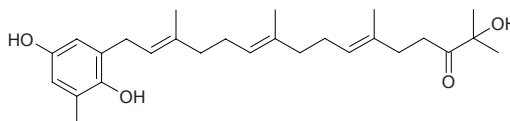
[4299-57-4] C₅₃H₈₀O₂ (749.23). mp 48~49°C. **Pharm:** Bioactive in connection with plant photosynthesis and path of respiration. **Source:** CAN DOU YE *Vicia faba*, HONG CAO *Polygonum orientale*, YAO YONG PU GONG YING *Taraxacum officinale*. **Ref:** 6, 658, 660.

**17516 Plastoquinone C₁**

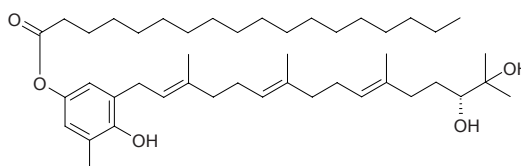
C₂₇H₃₈O₄ (426.60). Colorless oil. **Source:** Gulfweed *Sargassum micracanthum*. **Ref:** 4506.

**17517 Plastoquinone C₂**

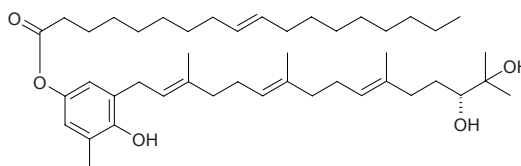
C₂₇H₄₀O₄ (428.62). Pale yellowish oil. **Pharm:** Antioxidant (lipid peroxidation inhibitor, IC₅₀ = 0.95 μg/mL, control Vitamin E, IC₅₀ = 40.4 μg/mL; DPPH scavenger, 100 μg/mL, reductive rate = 3.00%); cytotoxic (Colon26-L5 cell, IC₅₀ = 1.51 μg/mL, control *cis*-Platin, IC₅₀ = 0.67 μg/mL). **Source:** Gulfweed *Sargassum micracanthum*. **Ref:** 4506.

**17518 Plastoquinone C₃**

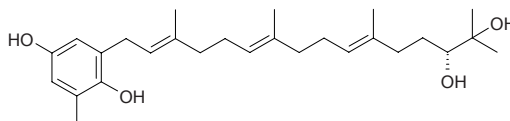
C₄₅H₇₆O₅ (697.10). Colorless oil, [α]_D²⁵ = +6.2° (*c* = 0.56, CHCl₃). **Pharm:** Antioxidant (lipid peroxidation inhibitor, IC₅₀ = 44.3 μg/mL, control Vitamin E, IC₅₀ = 40.4 μg/mL; DPPH scavenger, 100 μg/mL, reductive rate = 52.6%); cytotoxic (Colon26-L5 cell, IC₅₀ = 17.5 μg/mL, control *cis*-Platin, IC₅₀ = 0.67 μg/mL). **Source:** Gulfweed *Sargassum micracanthum*. **Ref:** 4506.

**17519 Plastoquinone C₄**

C₄₅H₇₄O₅ (695.09). Colorless oil, [α]_D²⁵ = +6.0° (*c* = 0.33, CHCl₃). **Pharm:** Antioxidant (lipid peroxidation inhibitor, IC₅₀ = 1.15 μg/mL, control Vitamin E, IC₅₀ = 40.4 μg/mL; DPPH scavenger, 100 μg/mL, reductive rate = 32.3%); cytotoxic (Colon26-L5 cell, IC₅₀ = 1.69 μg/mL, control *cis*-Platin, IC₅₀ = 0.67 μg/mL). **Source:** Gulfweed *Sargassum micracanthum*. **Ref:** 4506.

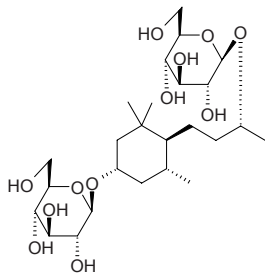
**17520 Plastoquinone from *Sargassum micracanthum***

C₂₇H₄₂O₄ (430.63). **Source:** Gulfweed *Sargassum micracanthum*. **Ref:** 4506.

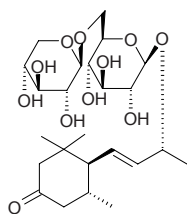


17521 Platanionoside D

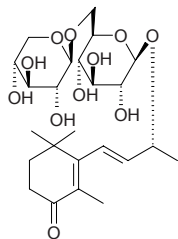
(3*S*,5*R*,6*S*,9*R*)-3,9-Dihydroxymegastigmane di-*O*- β -*D*-glucopyranoside C₂₅H₄₆O₁₂ (538.64). Amorphous powder, $[\alpha]_D^{20} = -41.0^\circ$ ($c = 0.61$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17522 Platanionoside E**

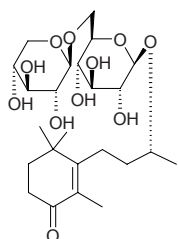
(5*R*,6*R*,7*E*)-9-Hydroxymegastigman-7-en-3-one *O*-primeveroside C₂₄H₄₀O₁₁ (504.58). Amorphous powder, $[\alpha]_D^{20} = -41.0^\circ$ ($c = 0.61$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17523 Platanionoside F**

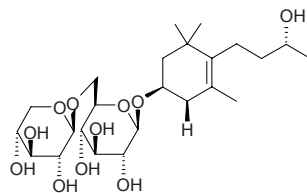
(9*R*,7*E*)-9-Hydroxymegastigman-5,7-dien-4-one *O*-primeveroside C₂₄H₃₈O₁₁ (502.56). Amorphous powder, $[\alpha]_D^{23} = -17.6^\circ$ ($c = 0.74$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17524 Platanionoside G**

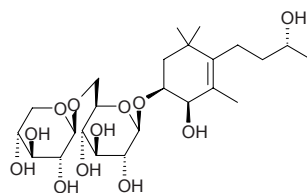
(9*R*)-9-Hydroxymegastigman-5-en-4-one *O*-primeveroside C₂₄H₄₀O₁₁ (504.58). Amorphous powder, $[\alpha]_D^{23} = -32.8^\circ$ ($c = 1.28$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17525 Platanionoside H**

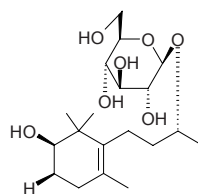
(3*S*,9*R*)-3,9-Dihydroxymegastigman-5-ene 3-*O*-primeveroside C₂₄H₄₂O₁₁ (506.60). Amorphous powder, $[\alpha]_D^{20} = -66.9^\circ$ ($c = 1.30$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17526 Platanionoside I**

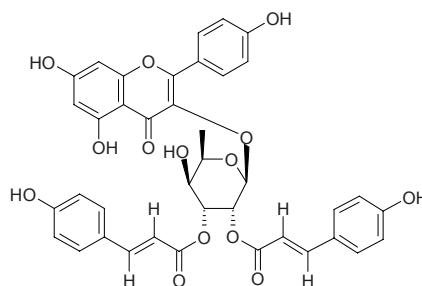
(3*S*,4*R*,9*\zeta*)-3,4,9-Trihydroxymegastigman-5-ene 3-*O*-primeveroside C₂₄H₄₂O₁₂ (522.60). Amorphous powder, $[\alpha]_D^{20} = -65.4^\circ$ ($c = 0.26$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

**17527 Platanionoside J**

(2*R*,9*R*)-2,9-Dihydroxymegastigman-5-ene 9-*O*- β -*D*-glucopyranoside C₁₉H₃₄O₇ (374.48). Amorphous powder, $[\alpha]_{405nm}^{20} = -7.8^\circ$ ($c = 0.51$, MeOH). Source: GUA MU BIAN ZHONG *Alangium paltanifolium* var. *platanifolium* (leaf). Ref: 4170.

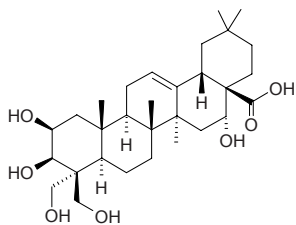
**17528 Platanoside**

Kaempferol 3-(2,3-di-*E*-*p*-coumaroyl- α -*L*-rhamnopyranoside) C₃₉H₃₂O₁₄ (724.67). Yellowish powder. Pharm: Antibacterial (*β* -*Streptococcus*, *Bacillus coli*, *Klebsiella pneumoniae* and *Bacillus pyocyaneus*); cytotoxic (KM3, HL-60, DAUDI, Jurkat-T and SDK). Source: HU SUI ZI *Coriandrum sativum*. Ref: 1115.

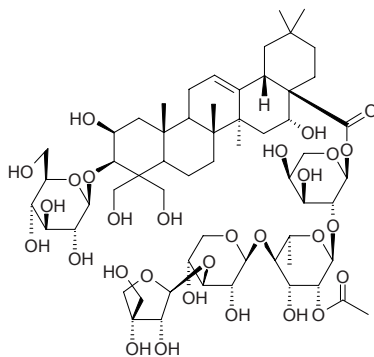


17529 Platycodigenin

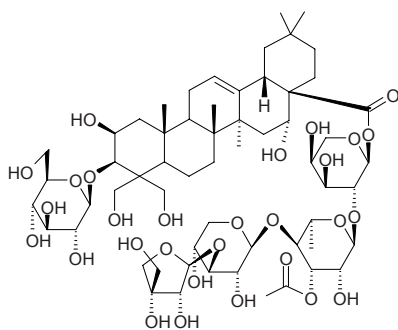
[22327-82-8] C₃₀H₄₈O₇ (520.71). mp 241~242°C. Source: JIE GENG *Platycodon grandiflorum*. Ref: 6.

**17530 Platycodin A**

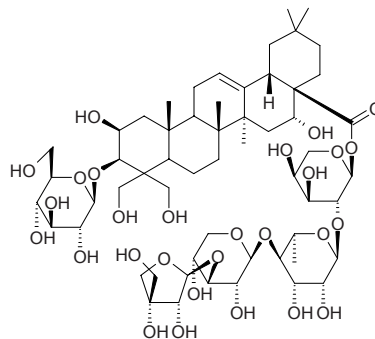
2''-*O*-Acetyl platycodin D [66779-34-8] C₅₉H₉₄O₂₉ (1267.39). Powder +1H₂O, mp 217~220.5°C (dec), [α]_D²⁸ = -26.6° (c = 1.7, MeOH). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1521, 3268.

**17531 Platycodin C**

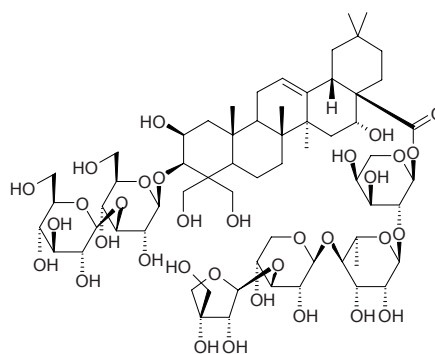
3''-*O*-Acetyl platycodin D [66779-35-9] C₅₉H₉₄O₂₉ (1267.39). Powder, mp 225~227°C (dec), [α]_D²⁸ = -28.3° (c = 1.14, MeOH). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1521, 3268.

**17532 Platycodin D**

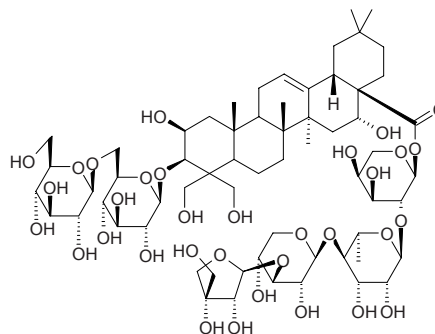
[58479-68-8] C₅₇H₉₂O₂₈ (1225.35). mp 228~237°C, [α]_D²³ = -30.5° (MeOH). Pharm: Anti-inflammatory (rat peritoneal macrophages, inhibits PGE2 production and inhibits COX-2 production, but not COX-1)^[4415]. Source: JIE GENG *Platycodon grandiflorum* (dried root: content scope of 10 origins = 0.28%~0.88%, mean content = 0.50%^[5508]). Ref: 1521, 3268, 4415, 5508.

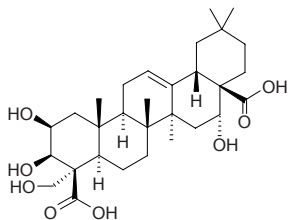
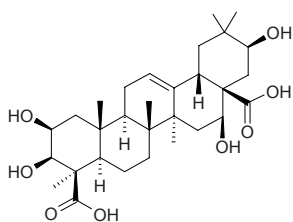
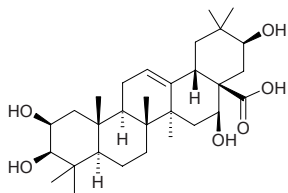
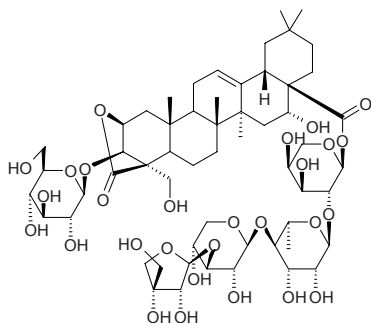
**17533 Platycodin D₂**

[66663-90-9] C₆₃H₁₀₂O₃₃ (1387.50). mp 227~235°C, [α]_D²³ = -27.9° (MeOH). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1521, 1382.

**17534 Platycodin D₃**

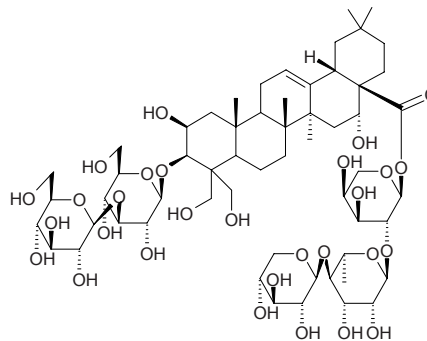
[67884-03-1] C₆₃H₁₀₂O₃₃ (1387.50). mp 218~225°C, [α]_D²³ = -24.3° (MeOH). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1521, 1382.



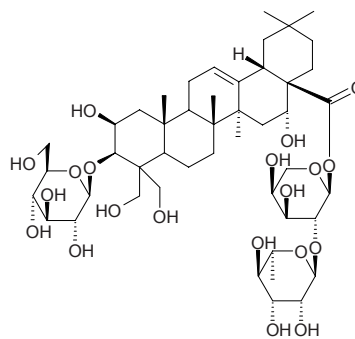
17535 Platycogenic acid A[26121-79-9] C₃₀H₄₆O₈ (534.70). mp 243~249°C. Source: JIE GENG*Platycodon grandiflorum*. Ref: 6.**17536 Platycogenic acid B**[26121-80-2] C₃₀H₄₆O₈ (534.70). mp 274~277°C (dec). Source: JIE GENG*Platycodon grandiflorum*. Ref: 6.**17537 Platycogenic acid C**[26121-81-3] C₃₀H₄₈O₆ (504.71). mp 282~288°C (dec). Source: JIE GENG*Platycodon grandiflorum*. Ref: 6.**17538 Platyconic acid A lactone-28-[β-D-apiofuranosyl(1→3)-β-D-xylopyranosyl(1→4)-α-L-rhamnopyranosyl(1→2)-L-arabinopyranosyl] 3-O-β-D-glucopyranoside**C₅₇H₈₈O₂₈ (1221.32). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1382.**17539 Platycoside A**

3-O-β-D-Glucopyranosyl-(1→3)-β-D-glucopyranosyl

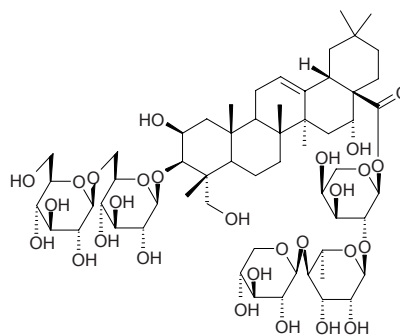
2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid

28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside C₅₈H₉₄O₂₉ (1255.38). Source: JIE GENG *Platycodon grandiflorum*.Ref: 4900.**17540 Platycoside F**

3-O-β-D-Glucopyranosyl-2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid

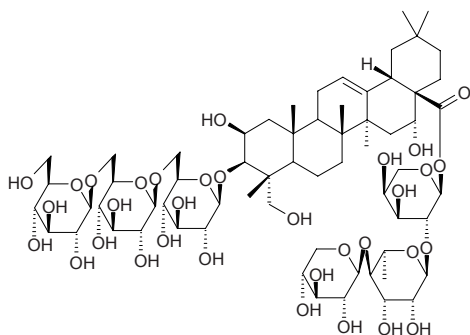
28-O-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside C₄₇H₇₆O₂₀(961.12). Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.**17541 Platycoside H**

3-O-β-D-Glucopyranosyl-(1→6)-β-D-glucopyranosyl-2β,3β,16α,23-tetrahydroxyolean-12-en-28-oic acid

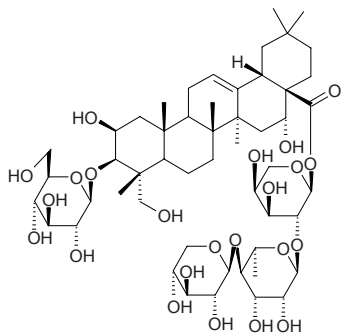
28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside C₅₈H₉₄O₂₈ (1239.38). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum* (root; yield = 0.00021% dw). Ref: 2172.

17542 Platycoside I

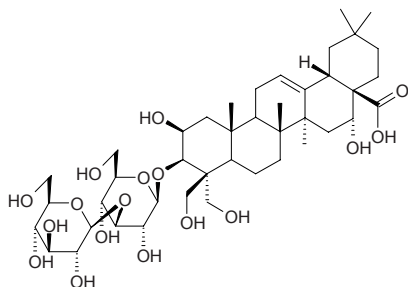
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23-tetrahydroxyolean-12-en-28-oic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₆₄H₁₀₄O₃₃ (1401.52). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum* (root; yield = 0.00005% dw). Ref: 2172.

**17543 Platycoside J**

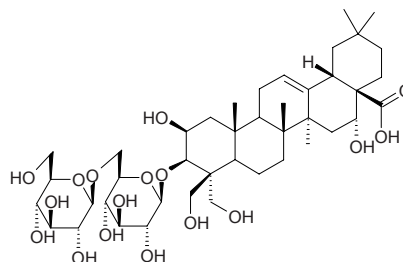
3-*O*- β -*D*-Glucopyranosyl-2 β ,3 β ,16 α ,23-tetrahydroxyolean-12-en-28-oic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₅₂H₈₄O₂₃ (1077.24). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum* (root; yield = 0.00018% dw). Ref: 2172.

**17544 Platycoside K**

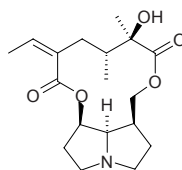
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-en-28-oic acid C₄₂H₆₈O₁₇ (845.00). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum* (root; yield = 0.00012% dw). Ref: 2172.

**17545 Platycoside L**

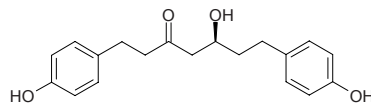
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-en-28-oic acid C₄₂H₆₈O₁₇ (845.00). White amorphous powder. Source: JIE GENG *Platycodon grandiflorum* (root; yield = 0.00013% dw). Ref: 2172.

**17546 Platyphylline**

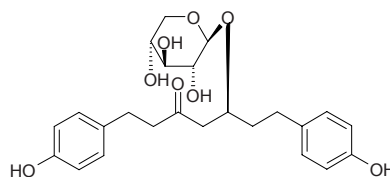
[480-78-4] C₁₈H₂₇NO₅ (337.42). Needles (H₂O), mp 129°C, mp 124~125°C, [α]_D = -56° (CHCl₃), [α]_D = -59° (EtOH). Pharm: Anticholinergic; antiulcerative (used in treatment of peptic ulcer of digestive tract). Source: DA BAI DING CAO *Senecio oryzetorum*, DA TOU TUO WU *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], GOU SHE CAO *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], KUAN YE QIAN LI GUANG *Senecio platyphyllus*, PING HUA FENG DOU CAI *Petasites laevigatus*, TIE SHENG QIAN LI GUANG *Senecio adnatus*, YAO YONG DAO TI HU *Cynoglossum officinale*, *Senecio* spp. Ref: 6, 658, 1521, 2971, 3107.

**17547 Platyphyllonol**

Hannokinin; 1,7-Bis(4-hydroxyphenyl)-5*S*-hydroxy-3-heptanone C₁₉H₂₂O₄ (314.38). Needles, mp 139~140°C, 131~142°C. Source: CHI YANG *Alnus japonica*, HUA MU PI *Betula platyphylla*, HONG HUA PI *Betula platyphylla* var. *japonica* (in 1973, the compound was isolated from the plant by M.terazawa et al.)^[5505], *Alnus* spp. Ref: 660, 1521, 5505.

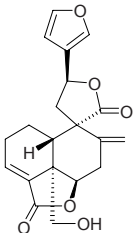
**17548 Platyphyllonol-5-*O*- β -*D*-xylopyranoside**

C₂₄H₃₀O₈ (446.50). Pharm: Antioxidant (3.125 μ g/mL, superoxide radical scavenging activity = 1.4%, control Urcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 2.0%, control Urcumin 50.0%). Source: CHI YANG *Alnus japonica* (leaf). Ref: 4535.

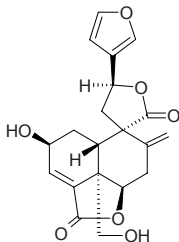


17549 Plaunol B

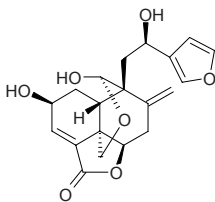
[69749-00-4] C₂₀H₂₀O₆ (356.38). mp 184°C, [α]_D²⁴ = +41.4° (*c* = 0.35, acetone). **Pharm:** Antiulcerative (inhibits gastric ulcer, rat, ip, 3mg/kg and 10mg/kg, InRt = 55% and 85% respectively). **Source:** JIN QIN ZHUANG BA DOU *Croton sublyratus*. **Ref:** 661.

**17550 Plaunol C**

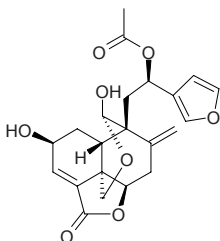
[69749-01-5] C₂₀H₂₀O₇ (372.38). mp 197~199°C, [α]_D²⁴ = -144° (*c* = 1.28, acetone). **Pharm:** Antiulcerative (inhibits gastric ulcer, rat, ip, 3mg/kg and 10mg/kg, InRt = 36% and 88% respectively). **Source:** JIN QIN ZHUANG BA DOU *Croton sublyratus*. **Ref:** 661.

**17551 Plaunol D**

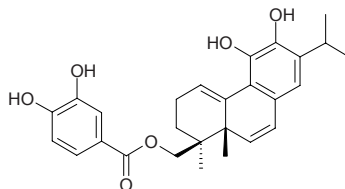
[66302-50-9] C₂₀H₂₂O₇ (374.40). mp 170~172°C, [α]_D²⁰ = -144° (*c* = 1.0, acetone). **Pharm:** Antiulcerative (inhibits gastric ulcer, rat, ip, 3mg/kg and 10mg/kg, InRt = 44% and 61% respectively). **Source:** JIN QIN ZHUANG BA DOU *Croton sublyratus*. **Ref:** 661.

**17552 Plaunol E**

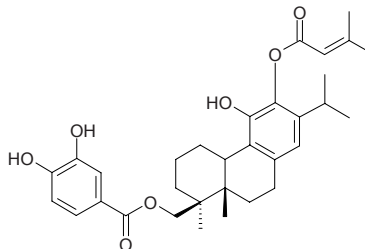
[69749-02-6] C₂₂H₂₄O₈ (416.43). mp 180~181°C, [α]_D²⁰ = -140° (*c* = 1.0, acetone). **Pharm:** Antiulcerative (inhibits gastric ulcer, rat, ip, 3mg/kg and 10mg/kg, InRt = 52% and 82% respectively). **Source:** JIN QIN ZHUANG BA DOU *Croton sublyratus*. **Ref:** 661.

**17553 Plectranthol A**

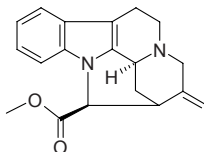
19-*O*-(3,4-Dihydroxybenzoyl)-11,12-dihydroxy-20(10→5)-abeo-abieta-1(10), 6,8,11,13-tetraene C₂₇H₃₀O₆ (450.54). Brownish oil, [α]_D²⁵ = -154.2° (*c* = 0.22, MeOH). **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ = 0.073mmol/L, control Vitamin E, EC₅₀ = 0.134mmol/L). **Source:** YUAN BAN XIANG CHA CAI *Plectranthus nummularius* (leaf). **Ref:** 4121.

**17554 Plectranthol B**

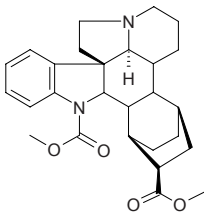
12-*O*-(3-Methyl-2-butenyl)-19-*O*-(3,4-dihydroxybenzoyl)-11-hydroxyabieta-8,11,13-triene C₃₂H₄₀O₇ (536.67). Brownish amorphous powder, [α]_D²⁵ = -20.6° (*c* = 0.20, MeOH). **Pharm:** Antioxidant (DPPH scavenger, EC₅₀ = 0.099mmol/L, control Vitamin E, EC₅₀ = 0.134mmol/L). **Source:** YUAN BAN XIANG CHA CAI *Plectranthus nummularius* (leaf). **Ref:** 4121.

**17555 Pleiocarpamine**

[6393-66-4] C₂₀H₂₂N₂O₂ (322.41). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*], HONG HUA RUI MU *Kopsia fruticosa* (leaf). **Ref:** 2, 1521, 3830.

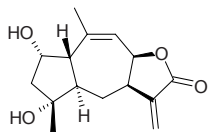
**17556 Pleiocarpine**

[559-52-4] C₂₇H₃₄N₂O₄ (450.58). Crystals (MeOH or pentane-MeOH), mp 142.5°C, [α]_D²⁵ = -145° (*c* = 1.1725, CHCl₃), pK_a = 6.19 (MAS). **Source:** YUN NAN RUI MU *Kopsia officinalis*. **Ref:** 1521, 3269.

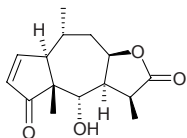


17557 Pleniradin

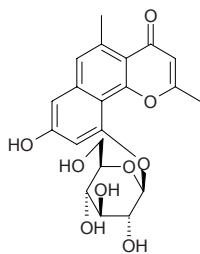
[25941-24-6] C₁₅H₂₀O₄ (264.32). **Pharm:** Antineoplastic (mus P₃₈₈ *in vivo*, 25mg/kg, biotic prolonged rate = 45%, mus B16 melanoma *in vivo*, 150mg/kg, biotic prolonged rate = 26%); cytotoxic (L₁₂₁₀, ED₅₀ = 4.3μg/mL; KB *in vitro*, ED₅₀ = 14μg/mL; mus P₃₈₈, *in vitro*). **Source:** BAI LAI SHI JU *Baileya multiradiata*. **Ref:** 5, 658.

**17558 Plenolin**

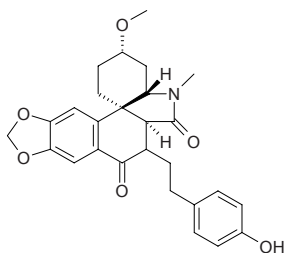
[34257-95-9] C₁₅H₂₀O₄ (264.33). **Pharm:** Antineoplastic; cytotoxic. **Source:** DUO BIAN HUA BAI LAI SHI JU *Baileya pleniradiata*, DUI XIN JU *Helenium autumnale*. **Ref:** 658.

**17559 Pleuropyrone A**

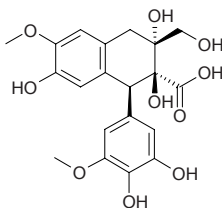
2,5-Dimethyl-8,10-dihydroxynaphthopyrone 10-*O*-β-*D*-glucopyranoside C₂₁H₂₂O₉ (418.40). White amorphous powder (MeOH), [α]_D²⁴ = -51° (c = 2.3, MeOH). **Pharm:** Antioxidant inactive (DPPH scavenger, IC₅₀ > 100μmol/L, control BHT, IC₅₀ = (15.3±0.6)μmol/L; superoxide radical inhibitor, IC₅₀ > 100μmol/L, control BHT, IC₅₀ = (48.9±2.5)μmol/L; lipid peroxidation scavenger, IC₅₀ > 100μmol/L, control BHT, IC₅₀ = (0.11±0.02)μmol/L)^[4402]. **Source:** MAO MAI LIAO *Pleuropterus ciliinervis* (root). **Ref:** 4402.

**17560 (+)-Plicamine**

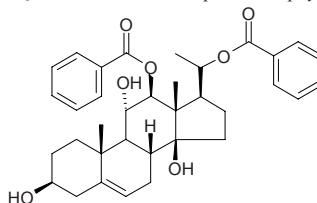
C₂₇H₂₉NO₆ (463.54). Amorphous solid, [α]_D = +74.4° (c = 0.117, MeOH). **Source:** TU ER QI XUE HUA LIAN *Galanthus plicatus* ssp. *byzantinus*. **Ref:** 1872.

**17561 Plicatic acid**

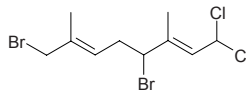
[16462-65-0] C₂₀H₂₂O₁₀ (422.40). **Pharm:** Causes asthma and nasitis; sensitizer. **Source:** BEI MEI XIANG BAI *Thuja plicata*. **Ref:** 658.

**17562 Plocigenin**

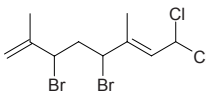
[97743-93-6] C₃₅H₄₂O₇ (574.72). mp 187~189°C, [α]_D = -18.6°. **Source:** QING SHE TENG *Periploca calophylla*. **Ref:** 2498.

**17563 Plocoralide A**

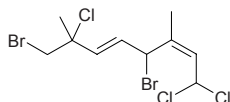
4,8-Dibromo-1,1-dichloro-3,7-dimethyl-2*E*,6*E*-octadiene C₁₀H₁₄Br₂Cl₂ (364.94). Colorless oil. **Source:** SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. **Ref:** 5277.

**17564 Plocoralide B**

4,6-Dibromo-1,1-dichloro-3,7-dimethyl-2*E*,7-octadiene C₁₀H₁₄Br₂Cl₂ (364.94). Colorless oil, [α]_D = -15° (c = 0.02, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, WHCO1, IC₅₀ = 9.3μmol/L, control *cis*-Platin, IC₅₀ = 13μmol/L)^[5277]. **Source:** SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. **Ref:** 5277.

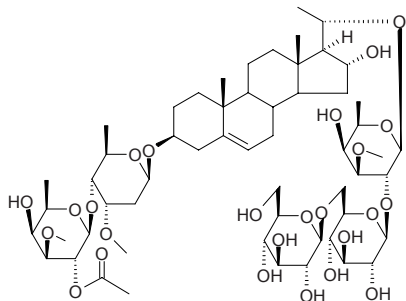
**17565 Plocoralide C**

4,8-Dibromo-1,1,7-trichloro-3,7-dimethyl-2*E*,5*Z*-octadiene C₁₀H₁₃Br₂Cl₃ (399.38). Colorless oil, [α]_D = -43° (c = 0.03, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, WHCO1, IC₅₀ = 33.8μmol/L, control *cis*-Platin, IC₅₀ = 13μmol/L). **Source:** SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. **Ref:** 5277.

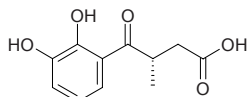


17566 Plocoside B

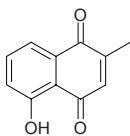
3-*O*-[2-Acetyl-3-*O*-methyl- β -*D*-fucopyranosyl-(1 \rightarrow 4)-2,6-dideoxy-3-*O*-methyl- β -*D*-ribo-hexopyranoside] 20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-3-*O*-methyl- β -*D*-fucopyranoside] [73528-21-9] C₅₆H₉₂O₂₅ (1165.34). $[\alpha]_D^{25} = +18.5^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.

**17567 Plumbagic acid**

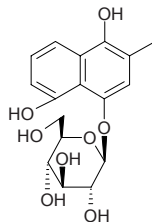
C₁₁H₁₂O₅ (224.21). Yellowish rhomboid crystals, mp 110°C. Pharm: Antibacterial; antitussive (dispels phlegm). Source: BAI HUA DAN *Plumbago zeylanica*. Ref: 661.

**17568 Plumbagin**

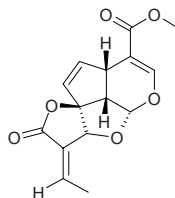
5-Hydroxy-2-methyl-1,4-naphthoquinone [481-42-5] C₁₁H₈O₃ (188.18). mp 78–79°C. Pharm: Antibacterial (*Mycobacterium tuberculosis*, MIC = 7.8 μg/mL); anti-fertility agent; antihypertensive; inhibits heart and relaxes artery; antitussive (mus, orl, dispels phlegm, 80mg/kg); enhances phagocytosis of granular leukocytes (hmn, *in vitro*); platelet aggregation inhibitor (zooperly); antithrombotic (platelet aggregation inhibitor *in vitro*: ADP-induced IC₅₀ = 39.4 μmol/L, AA-induced IC₅₀ = 82.7 μmol/L, PAF-induced IC₅₀ = 38.1 μmol/L; decreases binding between thrombin-stimulated platelets and neutrophils, IC₅₀ = 62.9 μmol/L; inhibits washed platelet aggregation stimulated by fMLP-activated neutrophils, IC₅₀ = 54.3 μmol/L, stimulated by PAF-activated neutrophils, IC₅₀ = 47.6 μmol/L; increases inhibition of intact neutrophils on platelet reactivity)^[5498]. Source: BAI HUA DAN *Plumbago zeylanica*, BU YING CAO *Dionaea muscipula*, JI WA CAO *Plumbagella micrantha*, JIAO ZHU HUA *Ceratostigma plumbaginoides*, MAO GAO CAI *Drosera peltata* var. *lunata*, OU ZHOU LAN MO LI *Plumbago europaea*, YUAN YE MAO GAO CAI *Drosera rotundifolia*, ZI JIN LIAN *Ceratostigma willmottianum*, ZI XUE HUA *Plumbago indica*, *Diospyros* sp., *Sparaxis* sp. Ref: 4, 621, 658, 5498.

**17569 Plumbaside A**

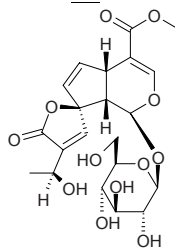
[126582-70-5] C₁₇H₂₀O₈ (352.34). Yellow-white powder. Pharm: Immunoenhancer (*in vitro*, promotes multiplication of lymphocyte T in 10–100pg/mL). Source: BU YING CAO *Dionaea muscipula*, XIAO JIAO ZHU HUA *Ceratostigma minus*, YUAN YE BU YING CAO *Dionaea rotundifolia*, ZHONG JIAN MAO GAO CAI *Drosera intermedia*. Ref: 3738, 3739, 3740, 3741.

**17570 Plumericin**

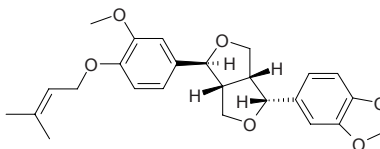
[77-16-7] C₁₅H₁₄O₆ (290.28). Thin oblong lamellar crystals (ethanol, methyl benzene or dichloroethane-ether), mp 211.5–212.5 (decomposition), under high vacuum 160–180°C (sub), $[\alpha]_D^{25} = +195.5^\circ$ (*c* = 0.982, chloroform). Pharm: Antibacterial (*Mycobacterium tuberculosis* 607, gram-negative and -positive bacteria); antifungal. Source: RUAN ZHI HUANG CHAN *Allemanda cathartica*. Ref: 661.

**17571 Plumieride**

[511-89-7] C₂₁H₂₆O₁₂ (470.44). Bitter monohydrate crystals (water), mp 156–158°C; anhydride colorless rhomboid crystals (methanol-acetone), mp 224–225°C, $[\alpha]_D^{16} = -114^\circ$ (*c* = 0.54, water), $[\alpha]_D^{20} = -80^\circ$ (methanol). Pharm: Antibacterial (gram-negative and -positive bacteria); diuretic (> 0.3g); laxative (mus, ED₅₀ = 0.12g/kg). Source: HONG JI DAN HUA *Plumeria rubra*. Ref: 661.

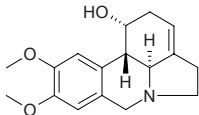
**17572 Pluviatilol- γ , γ -dimethylallyl ether**

[85994-79-2] C₂₅H₂₈O₆ (424.50). White granularity ceystals, mp 102°C (MeOH), $[\alpha]_D^{20} = -107.5^\circ$ (*c* = 0.9, CHCl₃). Pharm: CNS depressant. Source: BING GUO HUA JIAO *Zanthoxylum podocarpum*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, CI HUA JIAO *Zanthoxylum acanthopodium*, MEI GUO CI JIAO *Zanthoxylum clava-hercules*. Ref: 3742, 3743, 3744, 3745.

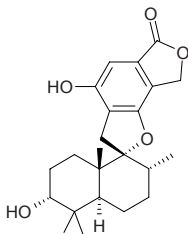


17573 Pluviine

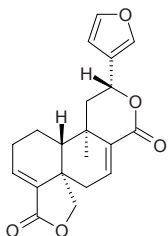
[548-11-8] C₁₇H₂₁NO₃ (287.36). mp 225~227°C, [α]_D²⁵ = -171° (c = 0.18, EtOH). Source: LU CONG *Lycoris squamigera*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], ZHONG GUO SHI SUAN *Lycoris chinensis*, *Narcissus* spp., family Amaryllidaceae spp. Ref: 6, 1521, 3270.

**17574 PM04701085-02**

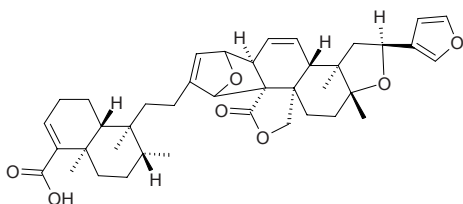
C₂₃H₃₀O₅ (386.49). Brown solid, [α]_D²⁸ = -18.9° (c = 0.33, MeOH). Pharm: Antiviral (HSV-1, 20µg/mL inactive, control Acyclovir IC₅₀ = (1.5±0.5)µg/mL, colorimetric method (P. Skehan, et al., J Natl Cancer Inst 1990, 82, 1107-1112)); antimalarial (*Plasmodium falciparum*, K1 multi-drug-resistant strain, cultivated *in vitro* by Trager and Jensen method (Science, 1976, 193, 673), IC₅₀ = (0.15±0.01)µg/mL, control Dihydroartemisinin IC₅₀ = (1.2±0.02)ng/mL); cytotoxic (Vero cells, 50µg/mL inactive, control Ellipticine IC₅₀ = (0.4±0.1)µg/mL, colorimetric method (P. Skehan, et al., J Natl Cancer Inst 1990, 82, 1107-1112)). Source: Fungus *Stachybotrys nephrospora*. Ref: 4078.

**17575 PM-2004-70-452-3**

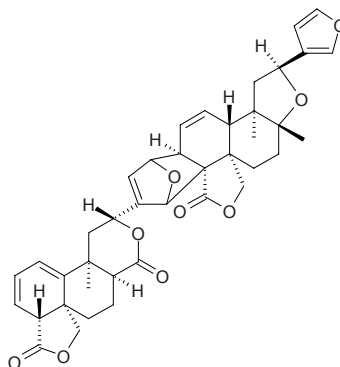
C₂₀H₂₀O₅ (340.38). Crystallized (CHCl₃-MeOH), mp 240~241°C, [α]_D²⁵ = -85.0° (c = 1.0, CHCl₃). Source: *Salvia wagneriana* (aerial parts). Ref: 4976.

**17576 PM-2004-70-452-4**

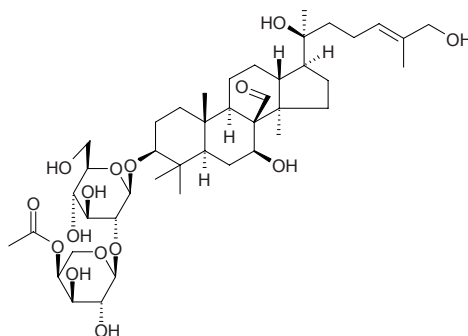
C₄₀H₅₀O₇ (642.84). Crystallized (CHCl₃-MeOH), mp 223~224°C, [α]_D²⁵ = -140.0° (c = 1.0, CHCl₃). Source: *Salvia wagneriana* (aerial parts). Ref: 4976.

**17577 PM-2004-70-452-5**

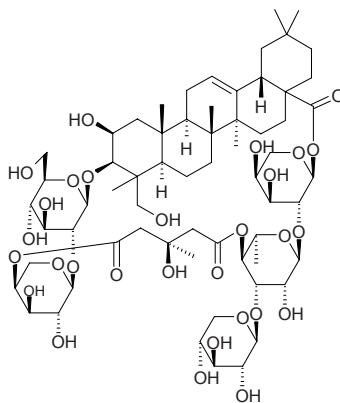
C₄₀H₄₂O₉ (666.78). Crystallized (CHCl₃-MeOH), mp 212~213°C, [α]_D²⁵ = +9.0° (c = 1.0, CHCl₃). Source: *Salvia wagneriana* (aerial parts). Ref: 4976.

**17578 PM-2004-70-458-3b**

C₄₃H₇₀O₁₅ (827.03). White crystalline powder (MeOH), mp 136~138°C, [α]_D²⁰ = +20.75° (c = 0.53, MeOH). Pharm: Antiviral (Vero cells, HSV-1, TC₅₀ = 852.1µg/mL, Acyclovir, TC₅₀ > 1000µg/mL). Source: JIA BEI MU *Bolbostemma paniculatum* (bulb). Ref: 4977.

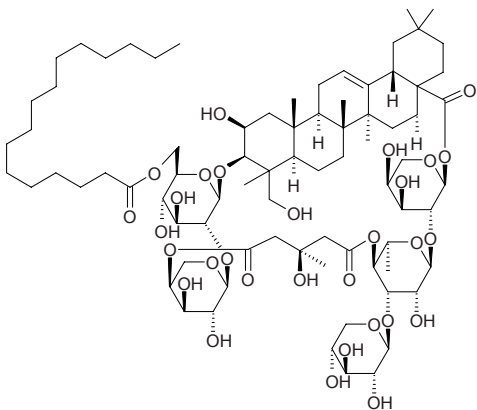
**17579 PM-2004-70-458-4**

C₆₃H₉₈O₂₉ (1319.27). Pharm: Antiviral (Vero cells, HSV-1, TC₅₀ = 1.37µg/mL, Acyclovir, TC₅₀ > 1000µg/mL). Source: JIA BEI MU *Bolbostemma paniculatum* (bulb). Ref: 4977.

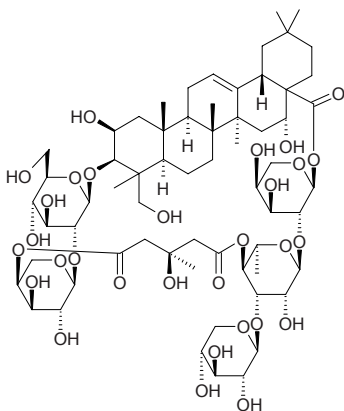


17580 PM-2004-70-458-4a

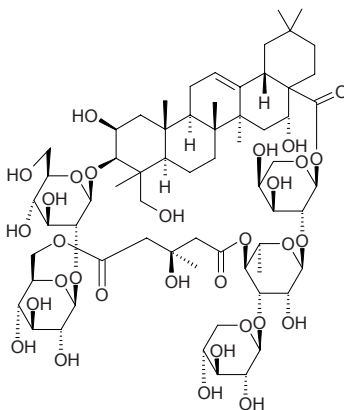
$C_{79}H_{128}O_{30}$ (1557.88). White crystalline powder (MeOH), mp 238~240°C, $[\alpha]_D^{20} = +12.57^\circ$ ($c = 0.56$, MeOH). **Pharm:** Antiviral (Vero cells, HSV-1, $TC_{50} = 4.11\mu\text{g/mL}$, Acyclovir, $TC_{50} > 1000\mu\text{g/mL}$). **Source:** JIA BEI MU *Bolbostemma paniculatum* (bulb). **Ref:** 4977.

**17581 PM-2004-70-458-5**

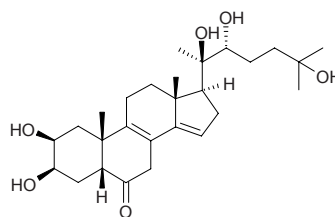
$C_{63}H_{98}O_{30}$ (1335.47). **Pharm:** Antiviral (Vero cells, HSV-1, $TC_{50} < 0.45\mu\text{g/mL}$, Acyclovir, $TC_{50} > 1000\mu\text{g/mL}$). **Source:** JIA BEI MU *Bolbostemma paniculatum* (bulb). **Ref:** 4977.

**17582 PM-2004-70-458-6**

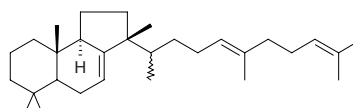
$C_{64}H_{100}O_{31}$ (1365.49). **Pharm:** Antiviral (Vero cells, HSV-1, $TC_{50} = 2.45\mu\text{g/mL}$, Acyclovir, $TC_{50} > 1000\mu\text{g/mL}$). **Source:** JIA BEI MU *Bolbostemma paniculatum* (bulb). **Ref:** 4977.

**17583 Podecdysone B**

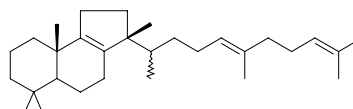
[22612-27-7] $C_{27}H_{42}O_6$ (426.63). **Pharm:** Insect ecdysone. **Source:** *Podocarpus* sp. **Ref:** 658.

**17584 7,17,21-Podiodatriene**

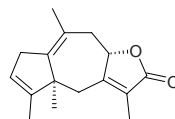
$C_{30}H_{50}$ (410.73). Oil, $[\alpha]_D^{23} = -11.5^\circ$ ($c = 0.2$, CHCl_3). **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 3271.

**17585 8,17,21-Podiodatriene**

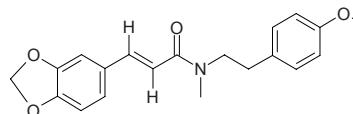
$C_{30}H_{50}$ (410.73). Oil, $[\alpha]_D^{23} = +11.7^\circ$ ($c = 0.2$, CHCl_3). **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 3271.

**17586 Podoandin**

[142279-47-8] $C_{15}H_{18}O_2$ (230.31). Prisms, mp 114~115°C. **Pharm:** Molluscicide (*Biomphalaria glabratus*, 250mg/L, 24h, kill ratio = 100%). **Source:** ZHI LI LUO HAN SONG *Podocarpus andina*. **Ref:** 3630.

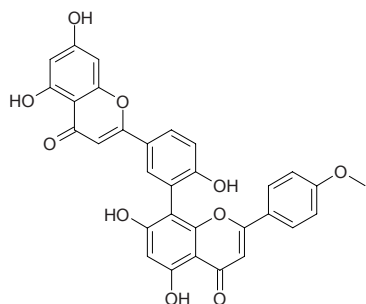
**17587 Podocarpamide**

[121880-09-9] $C_{20}H_{21}NO_4$ (339.39). Acicular clustered crystals, mp 85~86°C. **Pharm:** Platelet aggregation inhibitor (*in vitro*); antihepatotoxin (reduces level of transaminase *in vitro*). **Source:** BING GUO HUA JIAO *Zanthoxylum podocarpum*. **Ref:** 119.

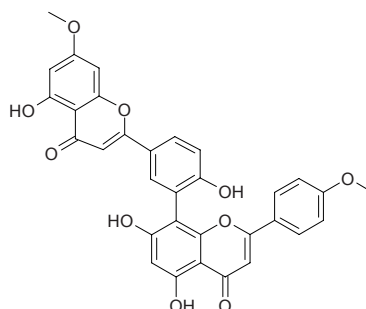


17588 Podocarpusflavone A

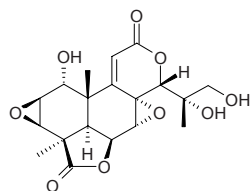
[22136-74-9] C₃₁H₂₀O₁₀ (552.50). Yellowish amorphous powder (MeOH), mp 321~323°C, [α]_D^{18.1} = +15.31° (c = 0.27, C₅H₅N). **Pharm:** Tissue proteinase B inhibitor (IC₅₀ = 1.68 μmol/L); cytotoxic (HT29, IC₅₀ = 11.16 μmol/L); antioxidant inactive (DPPH scavenger, 10 μmol/L, ScRt = 5%; control BHT, 10 μmol/L, ScRt = 43%, IC₅₀ = 19.00 μmol/L)^[4422]. **Source:** DU SONG SHI *Juniperus rigida*, JI MAO SONG *Podocarpus imbricatus*, LUO HAN SONG YE *Podocarpus macrophyllus*, MO XI GE LUO YU SHAN *Taxodium mucronatum* (twig and leaf), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 6, 544, 4422, 4571.

**17589 Podocarpusflavone B**

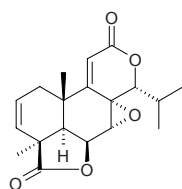
[23624-21-7] C₃₂H₂₂O₁₀ (566.53). **Source:** LUO HAN SONG YE *Podocarpus macrophyllus*. **Ref:** 6.

**17590 Podolactone B**

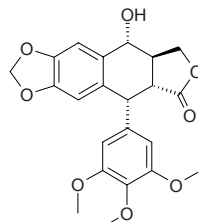
[26804-82-0] C₁₉H₂₂O₉ (394.38). **Pharm:** Inhibits mitosis (plant cells). **Source:** BAI RI QING *Podocarpus neriifolius*. **Ref:** 658, 1521.

**17591 Podolide**

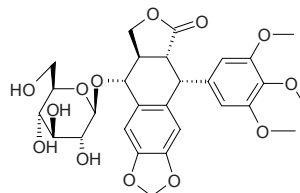
[55786-36-2] C₁₉H₂₂O₅ (330.38). mp 296~298°C. **Pharm:** Antineoplastic (mus P₃₈₈, *in vivo*); cytotoxic (KB *in vitro*, hmn P₃₈₈ *in vitro*, inhibits cell culture of Kichita sarcoma). **Source:** XI LUO HAN SONG *Podocarpus gracilior*. **Ref:** 5.

**17592 Podophyllotoxin**

Condyline; Podophyllinic acid lactone [518-28-5] C₂₂H₂₂O₈ (414.42). Solvated crystals, mp 114~118°C (bubble occurs), mp 183.3~184.0°C (after drying), [α]_D²⁰ = -132.7° (chloroform), slightly soluble in water, soluble in ethanol, chloroform, acetone, hot benzene, ice vinegar.^[5507] **Pharm:** Anti-fertility agent; antiviral (measles virus, HSV-1); cytotoxic (KB, IC₅₀ = 0.014 μmol/L^[3969], IC₅₀ = 0.01 μg/mL^[5176]); cytotoxic (BST assay, IC₅₀ = 4.5 μg/mL)^[5332]; cytotoxic (L-6, IC₅₀ = 0.0075 μg/mL)^[5008]; cytotoxic (L-6, IC₅₀ = 0.008 μg/mL)^[5009]; inhibits mitosis; immunosuppressant; intestinal smooth muscle stimulant; used in treatment of the fig wart (tincture in 5%, overall effective rate = 100%); LD₅₀ (mus, orl) = 90 mg/kg, (mus, ip) = 30~35 mg/kg. **Source:** BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*] (rhizome: content = 0.50%)^[5508], BEI MEI YUAN BAI *Juniperus virginiana*, BI LIN BA JIAO LIAN *Dysosma furfuracea* (rhizome: mean content in different seasons = 7.09%)^[5508], CHA ZI YUAN BAI *Juniperus sabina*, CHONG MING BA JIAO LIAN *Dysosma subrosea* (rhizome: content = 0.29%)^[5508], CHOU BAI *Sabina vulgaris*, CHUAN BA JIAO LIAN *Dysosma veitchii* (rhizome: content = 0.089%)^[5508], DUN YE GUI JIU *Podophyllum peltatum*, E SHEN *Anthriscus sylvestris*, GUANG XI BA JIAO LIAN *Dysosma guangxiensis* (rhizome: content = 0.12%)^[5508], GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*] (rhizome: content = 0.86%)^[5508], LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.24%)^[5508], SHAN HE YE *Diphylleia grayi* (rhizome: content = 2.8%)^[5508], TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome: mean content of 3 origins = 5.60%)^[5508], WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 2.99%)^[5508], XIAO BA JIAO LIAN *Dysosma difformis* (rhizome: content = 0.22%)^[5508]. **Ref:** 4, 6, 279, 658, 3543, 3969, 5008, 5009, 5176, 5332, 5499, 5507, 5508.

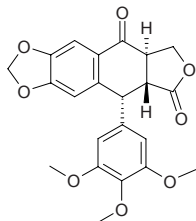
**17593 Podophyllotoxin 7'-O-β-D-glucopyranoside**

C₂₈H₃₂O₁₃ (576.56). Hygroscopic white amorphous flocculus, mp 152~154°C, [α]_D²⁰ = -76.4° (c = 0.576, methanol), [α]_D²⁰ = -117° (c = 0.668, pyridine). **Pharm:** Antineoplastic (mus EAC, ip); inhibits mitosis; antiviral (herpes simplex virus); LD₅₀ (mus, ip) = 200 mg/kg. **Source:** TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], DUN YE GUI JIU *Podophyllum peltatum*. **Ref:** 661, 3543.

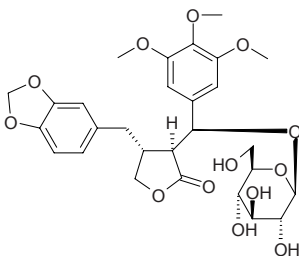


17594 Podophyllotoxone

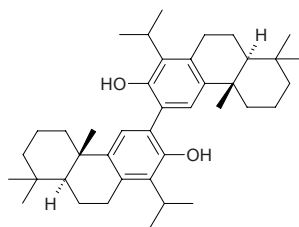
$C_{22}H_{20}O_8$ (412.40). **Pharm:** Cytotoxic. **Source:** BAI BA JIAO LIAN *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], DUN YE GUI JIU *Podophyllum peltatum*, LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.016%^[5508]), TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (rhizome: mean content of 2 origins = 0.306%^[5508]), WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.131%^[5508]). **Ref:** 658, 2719, 2729, 2997, 3115, 5508.

**17595 Podorhizol β-D-glucoside**

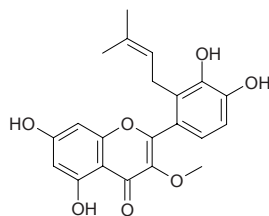
$C_{28}H_{34}O_{13}$ (578.58). **Pharm:** Inhibits mitosis. **Source:** DUN YE GUI JIU *Podophyllum peltatum*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*]. **Ref:** 658.

**17596 Podototarin**

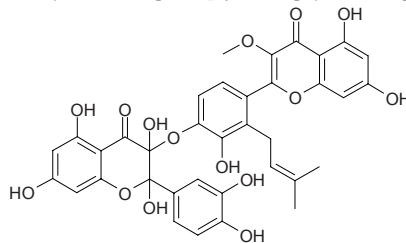
[2539-02-8] $C_{40}H_{58}O_2$ (570.91). mp 225–226°C. **Source:** LUO HAN SONG YE *Podocarpus macrophyllus*. **Ref:** 6.

**17597 Podoverin A**

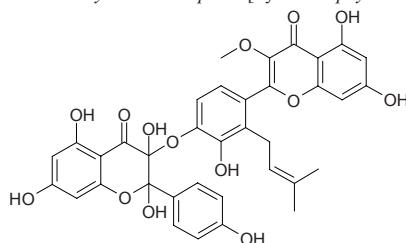
[107882-43-9] $C_{21}H_{20}O_7$ (384.38). White crystals, mp 82–84°C (Et₂O-pet. ether). **Pharm:** Anti-inflammatory (*in vitro*, IC₅₀ = 4.7 μmol/L). **Source:** GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*]. **Ref:** 3631.

**17598 Podoverin B**

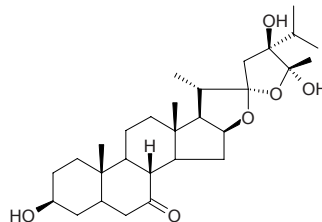
[107882-41-7] $C_{36}H_{30}O_{15}$ (702.63). Yellow crystals, mp 180–182°C (Et₂O-pet. ether). **Pharm:** Anti-inflammatory (*in vitro*, IC₅₀ = 6.4 μmol/L). **Source:** GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*]. **Ref:** 3631.

**17599 Podoverin C**

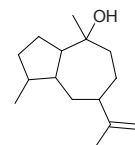
[107882-40-6] $C_{36}H_{30}O_{14}$ (686.63). Yellowish amorphous substance, mp 171–173°C. **Pharm:** Anti-inflammatory (*in vitro*, IC₅₀ = 89 μmol/L). **Source:** GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*]. **Ref:** 3631.

**17600 Pogosterol**

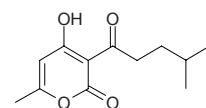
[149155-26-0] $C_{29}H_{46}O_6$ (490.69). Crystals (MeOH), mp 154–157°C, [α]_D²³ = –91.6° (*c* = 0.43, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, L₁₂₁₀ IC₅₀ = 1.7 μg/mL). **Source:** BO GE BAN JIU JU *Vernonia pogosperma*. **Ref:** 3632.

**17601 Pogostol**

[21698-41-9] $C_{15}H_{26}O$ (222.37). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 2, 660.

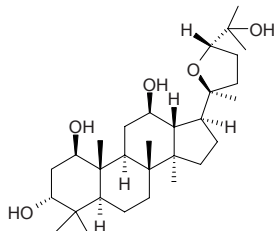
**17602 Pogostone**

$C_{12}H_{16}O_4$ (224.26). mp 33–34°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, α -hemolytic streptococcus); antifungal (*Candida albicans*, *Rhizopus niger*, *Cryptococcus neoformans*); antiseptic. **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*] (aerial parts: content scope = 0.004%–0.016%^[5501]). **Ref:** 2, 505, 660, 5501.

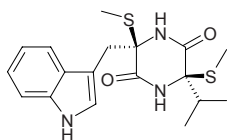


17603 Polacamdrin

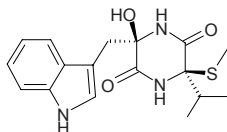
[145700-90-9] C₃₀H₅₂O₅ (492.75). Colorless prisms, mp 234~238°C, [α]_D = -86.5° (*c* = 0.89, CHCl₃). **Pharm:** Cytotoxic (KB, ED₅₀ = 0.6µg/mL, P₃₈₈ ED₅₀ = 0.9µg/mL, RPMI-7951 ED₅₀ = 0.62µg/mL). **Source:** SHI ER RUI CHOU SHI CAI *Polanisia dodecandra*. **Ref:** 3633.

**17604 Polanrazine B**

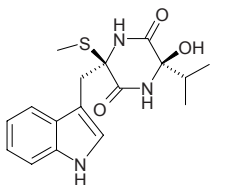
C₁₈H₂₃N₃O₂S₂ (377.53). [α]_D = -60° (*c* = 0.2, CHCl₃). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5213.

**17605 Polanrazine C**

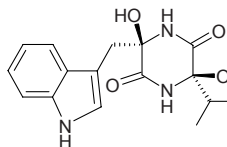
C₁₇H₂₁N₃O₃S (347.44). [α]_D = +16° (*c* = 0.18, MeOH). **Pharm:** Phytotoxin (brown mustard leaves, moderate but selective toxicity, causing necrotic and chlorotic lesions, 1~3mm diameter). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5213.

**17606 Polanrazine D**

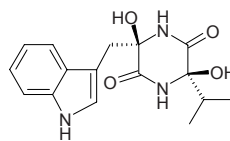
C₁₇H₂₁N₃O₃S (347.44). [α]_D = -8.2° (*c* = 0.18, MeOH). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5213.

**17607 Polanrazine E**

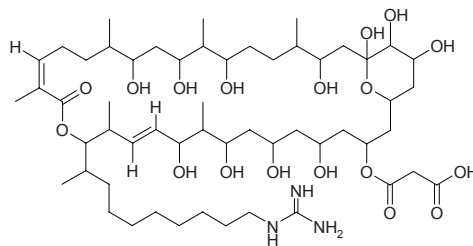
C₁₇H₂₁N₃O₄ (331.37). [α]_D = -6° (*c* = 0.07, MeOH). **Pharm:** Phytotoxin (brown mustard leaves, moderate but selective toxicity, causing necrotic and chlorotic lesions, 1~3mm diameter)^[5213]. **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5213.

**17608 Polanrazine F**

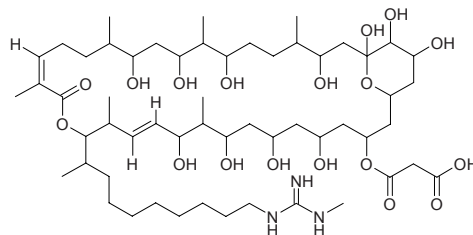
C₁₇H₁₉N₃O₄ (317.35). [α]_D = -10° (*c* = 0.26, MeOH). **Source:** BAN DIAN XIAO QIU QIANG JUN *Leptosphaeria maculans*, JING DIAN MEI *Phoma lingam*. **Ref:** 5213.

**17609 Polaramycin A**

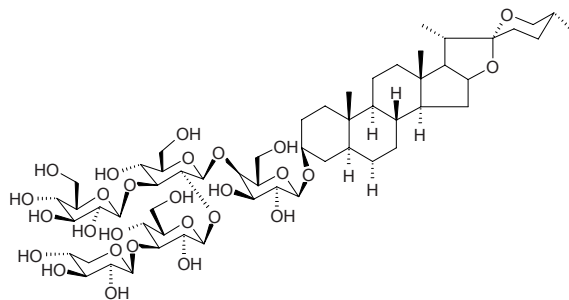
C₅₅H₉₉N₃O₁₈ (1090.41). White crystalline powder. **Source:** *Streptomyces hygroscopicus*. **Ref:** 380.

**17610 Polaramycin B**

C₅₆H₁₀₁N₃O₁₈ (1104.44). White crystalline powder. **Source:** *Streptomyces hygroscopicus*. **Ref:** 380.

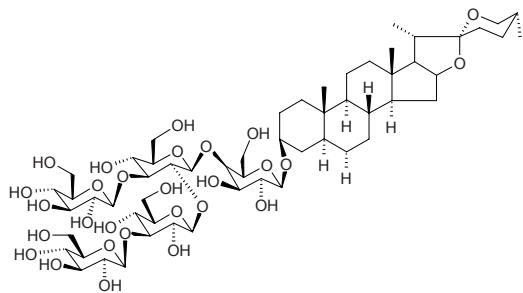
**17611 Polianthoside B**

Tigogenin 3-*O*- β -D-Xylopyranosyl-(1→3)- β -D-glucopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→3)]- β -D-glucopyranosyl-(1→4)- β -D-galactopyranoside C₅₆H₉₂O₂₇ (1197.34). White amorphous powder, [α]_D^{18.3} = -52.04° (*c* = 0.0221, pyridine). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, IC₅₀ > 20µg/mL; control cis-Platin, IC₅₀ = 0.75µg/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.00058%fw). **Ref:** 3002.

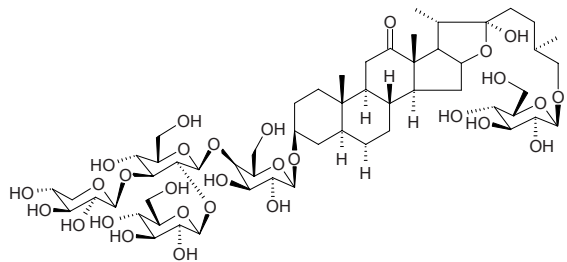


17612 Polianthoside C

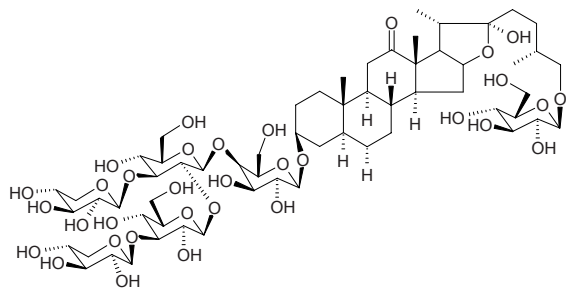
Tigogenin 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₅₇H₉₄O₂₈ (1227.37). White amorphous powder, $[\alpha]_D^{19.8} = -32.79^\circ$ ($c = 0.0183$, pyridine). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, IC₅₀ > 20 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.00028%fw). **Ref:** 3002.

**17613 Polianthoside D**

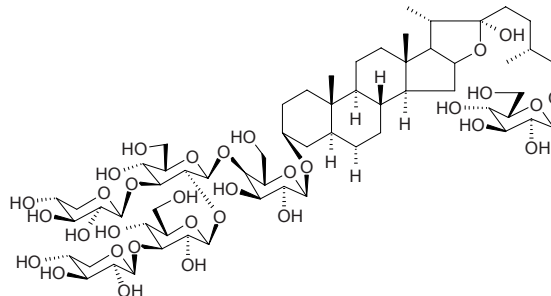
26-*O*- β -*D*-Glucopyranosyl-(25*R*)-5 α -furost-3 β ,22 α ,26-triol-12-one 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₅₆H₉₂O₂₉ (1229.34). White amorphous powder, $[\alpha]_D^{18.1} = -23.21^\circ$ ($c = 0.0474$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 7.9 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0062%fw). **Ref:** 3002.

**17614 Polianthoside E**

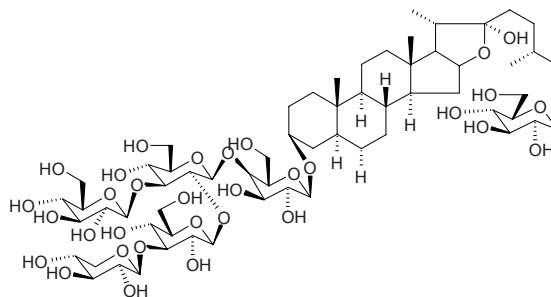
26-*O*- β -*D*-Glucopyranosyl-(25*R*)-5 α -furost-3 β ,22 α ,26-triol-12-one 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₆₁H₁₀₀O₃₃ (1361.46). White amorphous powder, $[\alpha]_D^{18.1} = -23.53^\circ$ ($c = 0.034$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 5.2 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.021%fw). **Ref:** 3002.

**17615 Polianthoside F**

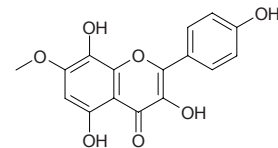
26-*O*- β -*D*-Glucopyranosyl-(25*R*)-5 α -furost-3 β ,22 α ,26-triol 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₆₁H₁₀₂O₃₂ (1347.47). White amorphous powder, $[\alpha]_D^{19.8} = -37.18^\circ$ ($c = 0.039$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 20.00 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.030%fw). **Ref:** 3002.

**17616 Polianthoside G**

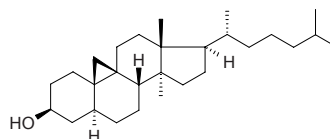
26-*O*- β -*D*-Glucopyranosyl-(25*R*)-5 α -furost-3 β ,22 α ,26-triol 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside C₆₂H₁₀₄O₃₃ (1377.5). White amorphous powder, $[\alpha]_D^{19.7} = -35.26^\circ$ ($c = 0.039$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 5.4 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.00075%fw). **Ref:** 3002.

**17617 Pollenitin**

3,5,8,4'-Tetrahydroxy-7-methoxy flavone C₁₆H₁₂O₇ (316.27). Yellow needles (AcOH), mp 285°C. **Source:** CHA HUA *Camellia sinensis* [Syn. *Thea sinensis*], *Notholaena* spp. **Ref:** 1521, 3272.

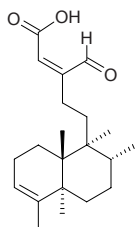
**17618 Pollinastanol**

[1912-66-9] C₂₈H₄₈O (400.69). mp 95°C. **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 6.

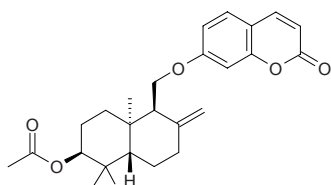


17619 Polyalthialdoic acid

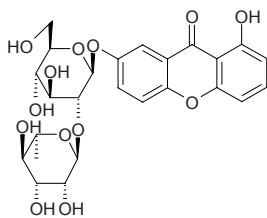
[137109-33-2] C₂₀H₃₀O₃ (318.46). White powder, mp 167~170°C, $[\alpha]_D^{22} = -36.7^\circ$ ($c = 0.03$, absolute alcohol). **Pharm:** Cytotoxic (hmn, markedly inhibits A549, MCF7, and HT29; hmn culture cancer cells ED₅₀ = 0.6 μg/mL; markedly inhibits Crown gall cancer). **Source:** CHANG YE AN LUO *Polyalthia longifolia*. **Ref:** 3634.

**17620 Polyanthinin**

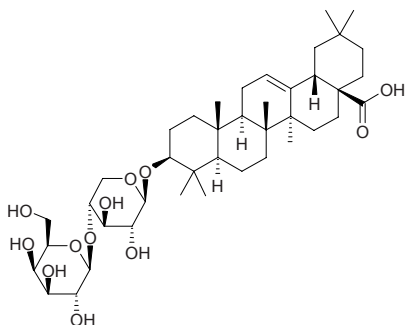
Polyanthin C₂₆H₃₂O₅ (424.54). mp 127~129°C, $[\alpha]_D^{20} = -32^\circ$ (EtOH). **Source:** A WEI *Ferula assafoetida* (root), DUO HUA A WEI *Ferula polyantha*. **Ref:** 1521, 3273, 5243.

**17621 Polycaudoside A**

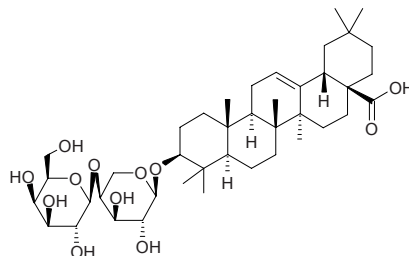
1,7-Dihydroxyxanthone-7-*O*- α -L-rhamnopyranosyl-(1→2)- β -D-glucopyranoside C₂₅H₂₈O₁₃ (536.49). Yellow needles, mp = 115~117°C. **Source:** SHUI HUANG YANG MU *Polygala caudata*. **Ref:** 2329.

**17622 Polyfolioliide A**

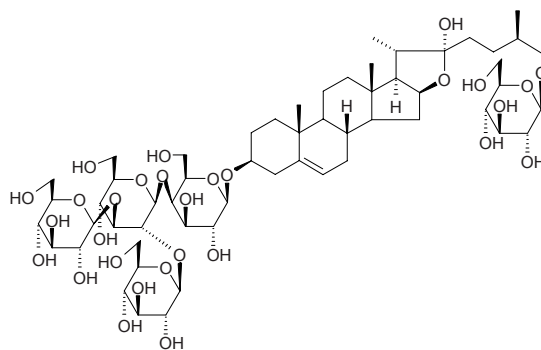
3-*O*- β -D-Galactopyranosyl-(1→4)- β -D-xylopyranosyloleanolic acid C₄₁H₆₆O₁₂ (750.98). Colorless solid, $[\alpha]_D^{25} = +12.4^\circ$ ($c = 1.42$, MeOH). **Pharm:** Cytotoxic (A2780, IC₅₀ = (6.7±0.4) μg/mL; control Actinomycin D, IC₅₀ = 2~5 ng/mL). **Source:** DA YE NAN YANG SHEN *Polyscias amplifolia* (infructescence). **Ref:** 5397.

**17623 Polyfolioliide B**

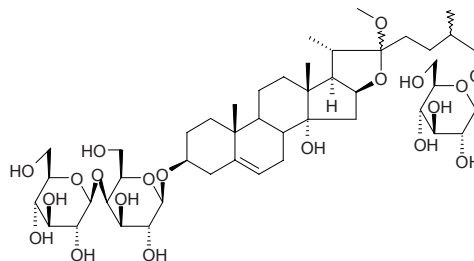
3-*O*- β -D-Galactopyranosyl-(1→4)- α -L-arabinopyranosyloleanolic acid C₄₁H₆₆O₁₂ (750.98). Colorless solid, $[\alpha]_D^{25} = +26.4^\circ$ ($c = 0.96$, MeOH). **Pharm:** Cytotoxic (A2780, IC₅₀ = (9.2±0.3) μg/mL; control Actinomycin D, IC₅₀ = 2~5 ng/mL). **Source:** DA YE NAN YANG SHEN *Polyscias amplifolia* (infructescence). **Ref:** 5397.

**17624 Polyfuroside**

C₅₇H₉₄O₂₉ (1243.37). **Source:** YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. **Ref:** 660.

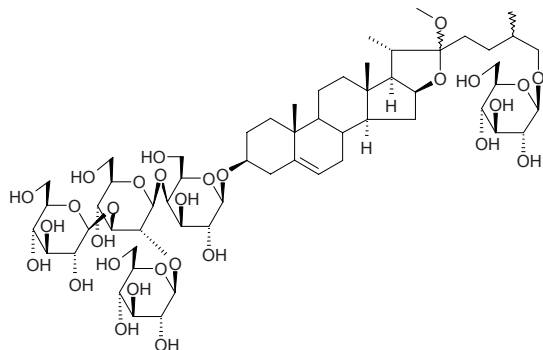
**17625 Polyfuroside PO₆**

C₄₆H₇₆O₂₀ (949.11). **Source:** YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. **Ref:** 660.

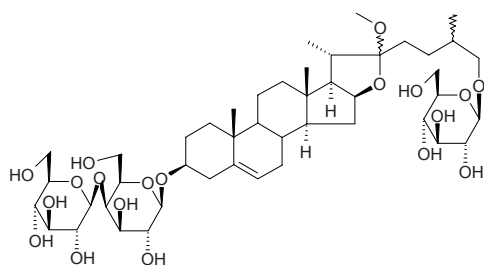


17626 Polyfuroside PO₇

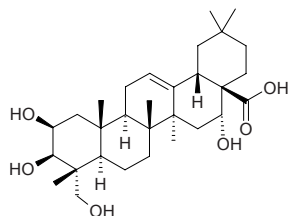
$C_{58}H_{96}O_{29}$ (1257.39). Source: YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. Ref: 660.

**17627 Polyfuroside PO₈**

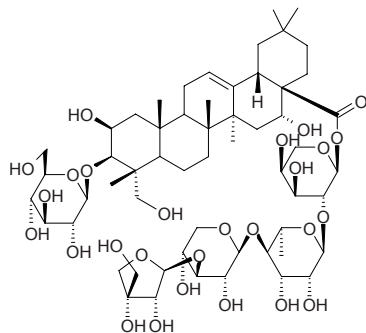
$C_{46}H_{76}O_{19}$ (933.11). Source: YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. Ref: 660.

**17628 Polygalacic acid**

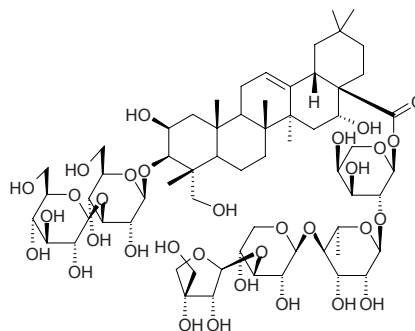
[22338-71-2] $C_{30}H_{48}O_6$ (504.71). mp 300~305°C. Source: JIE GENG *Platycodon grandiflorum*. Ref: 6.

**17629 Polygalacin D**

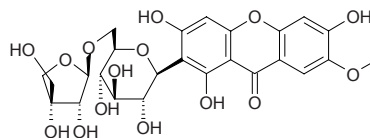
$C_{57}H_{92}O_{27}$ (1209.35). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1382.

**17630 Polygalacin D₂**

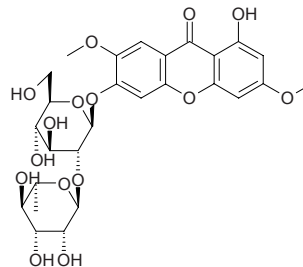
$C_{63}H_{102}O_{32}$ (1371.50). Source: JIE GENG *Platycodon grandiflorum*. Ref: 1382.

**17631 Polygalaxanthone III**

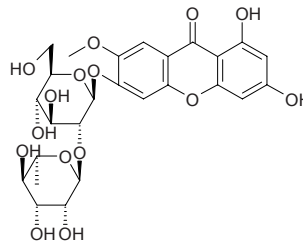
$C_{25}H_{28}O_{15}$ (568.39). Amorphous powder. Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**17632 Polygalaxanthone IV**

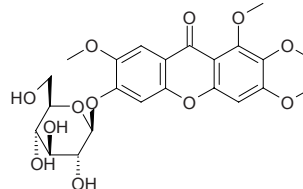
$C_{27}H_{32}O_{15}$ (596.55). Yellow powder, mp 273~275°C, $[\alpha]_D^{23} = -60^\circ$ ($c = 0.70$, MeOH). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 1974.

**17633 Polygalaxanthone V**

$C_{26}H_{30}O_{15}$ (582.52). Yellow powder, mp 232~235 °C, $[\alpha]_D^{23} = -81.7^\circ$ ($c = 0.71$, MeOH). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 1974.

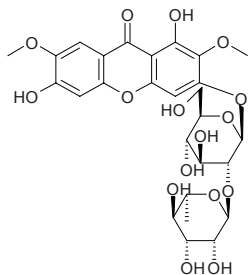
**17634 Polygalaxanthone VI**

$C_{23}H_{26}O_{12}$ (494.46). Yellow powder, mp 245~247 °C. Source: YUAN ZHI *Polygala tenuifolia*. Ref: 1974.

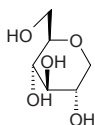


17635 Polygalaxanthone VII

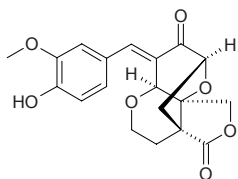
$C_{27}H_{32}O_{16}$ (612.55). Pale yellow powder, mp 182~184 °C. Source: YUAN ZHI *Polygala tenuifolia*. Ref: 1974.

**17636 Polygalitol**

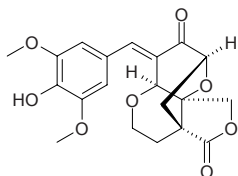
$C_6H_{12}O_5$ (164.16). mp 142~143°C. Source: HUANG HUA YUAN ZHI *Polygala arillata*, YUAN ZHI *Polygala tenuifolia*. Ref: 2.

**17637 Polygalolide A**

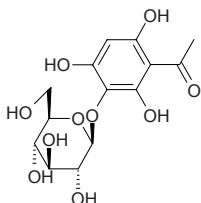
$C_{19}H_{18}O_7$ (358.35). Light brown amorphous powder, $[\alpha]_D^{24} = -14.4^\circ$ ($c = 0.018$, MeOH). Source: JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*] (root and stem: yield = 0.00054%). Ref: 4683.

**17638 Polygalolide B**

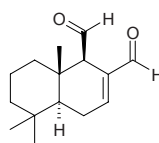
$C_{20}H_{20}O_8$ (388.38). Light brown amorphous powder, $[\alpha]_D^{24} = -21.3^\circ$ ($c = 0.015$, MeOH). Source: JIA HUANG HUA YUAN ZHI *Polygala fallax* [Syn. *Polygala aureocauda*] (root and stem: yield = 0.00049%). Ref: 4683.

**17639 Polygoacetophenoside**

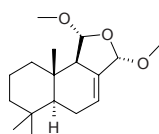
[110906-84-8] $C_{14}H_{18}O_{10}$ (346.29). Source: HE SHOU WU *Polygonum multiflorum*. Ref: 2.

**17640 Polygodial**

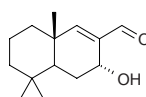
Tadeonal [6754-20-7] $C_{15}H_{22}O_2$ (234.34). mp 57°C, bp 138~140°C/0.8mmHg. Pharm: Insect antifeedant. Source: SHUI LIAO *Polygonum hydropiper*. Ref: 6, 658, 1521.

**17641 Polygodial acetal**

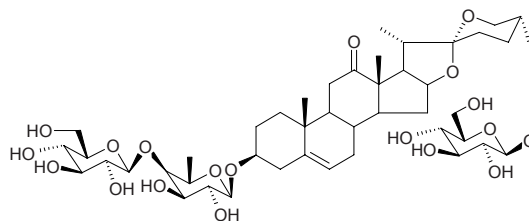
[98204-88-7] $C_{17}H_{28}O_3$ (280.41). Yellow oil. Source: SHUI LIAO *Polygonum hydropiper*. Ref: 3274.

**17642 Polygonal**

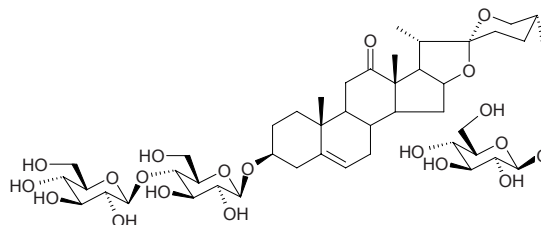
[72537-20-3] $C_{14}H_{22}O_2$ (222.33). Crystals, mp 116~117°C, $[\alpha]_D = -7.3^\circ$ ($c = 7.4$, $CHCl_3$). Source: LIAO SHI *Polygonum hydropiper*. Ref: 3275.

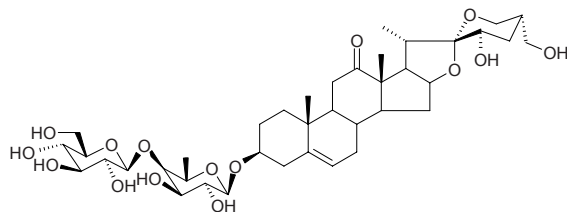
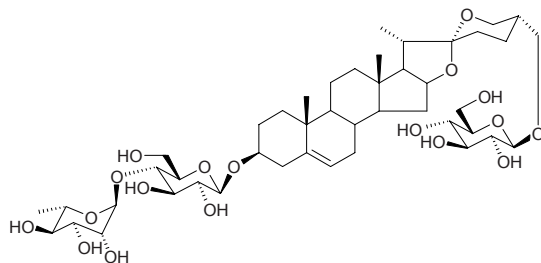
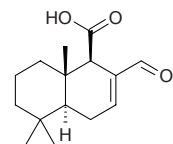
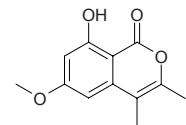
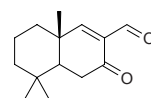
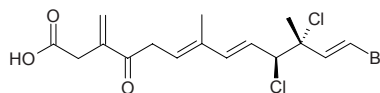
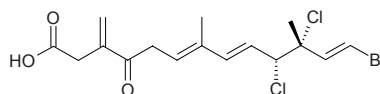
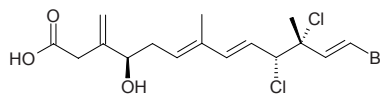
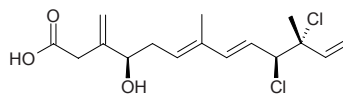
**17643 Polygonatoside A**

(25S)-3 β ,27-Dihydroxyspirost-5-en-12-one
27-O- β -D-glucopyranosyl-3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-fucopyranoside
de $C_{45}H_{70}O_{19}$ (915.05). White amorphous powder, $[\alpha]_D^{20} = -24.51^\circ$ ($c = 0.1489$, pyridine). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 5.06\mu g/mL$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu g/mL$). Source: HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00055%dw). Ref: 4788.

**17644 Polygonatoside B**

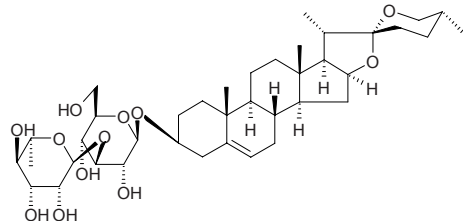
(25S)-3 β ,27-Dihydroxyspirost-5-en-12-one
27-O- β -D-glucopyranosyl-3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside
de $C_{45}H_{70}O_{20}$ (831.05). White amorphous powder, $[\alpha]_D^{20} = -19.19^\circ$ ($c = 0.0521$, pyridine). Pharm: Cytotoxic (*in vitro*, HeLa, $IC_{50} = 5.13\mu g/mL$; control Cisplatin, HeLa, $IC_{50} = 0.75\mu g/mL$). Source: HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00014%dw). Ref: 4788.



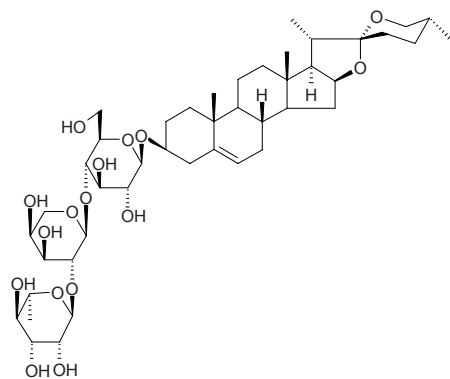
17645 Polygonatoside C(23*S*,25*S*)-3 β ,23,27-Trihydroxyspirost-5-en-12-one3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranoside C₃₉H₆₀O₁₅ (768.9).White solid, $[\alpha]_D^{20} = -48.43^\circ$ ($c = 0.0351$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 7.45 μ g/mL; control Cisplatin, HeLa, IC₅₀ = 0.75 μ g/mL).**Source:** HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00018%dw). **Ref:** 4788.**17646 Polygonatoside D**(25*S*)-Spirost-5-ene-3 β ,27-diol27-*O*- β -*D*-glucopyranosyl-3-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside C₄₅H₇₂O₁₈ (901.06). White amorphous powder, $[\alpha]_D^{20} = -50.31^\circ$ ($c = 0.0141$, pyridine).**Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 5.83 μ g/mL; control Cisplatin, HeLa, IC₅₀ = 0.75 μ g/mL). **Source:** HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00006%dw). **Ref:** 4788.**17647 Polygonic acid**[98204-84-3] C₁₅H₂₂O₃ (250.34). Crystals, mp 96–97°C, $[\alpha]_D^{23} = -31^\circ$ ($c = 1.06$, CHCl₃). **Source:** LA LIAO *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], SHUI LIAO *Polygonum hydropiper*. **Ref:** 660, 3274.**17648 Polygonolide**[100560-66-5] C₁₂H₁₂O₄ (220.23). **Pharm:** Anti-inflammatory. **Source:** SHUI LIAO *Polygonum hydropiper*. **Ref:** 658.**17649 Polygonone**[72581-67-0] C₁₄H₂₀O₂ (220.31). Oil. **Source:** SHUI LIAO *Polygonum hydropiper*. **Ref:** 3274.**17650 Polyhalogenated homosesquiterpenic fatty acid A**(6*E*,8*E*,12*E*)-3-Methylene-4-oxo-7,11-dimethyl-(10*S**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid C₁₆H₁₉BrCl₂O₃ (410.14). $[\alpha]_D = -43.1^\circ$ ($c = 0.17$, MeOH). **Source:** RUAN GU HAI TOU HONG *Plocamium cartilagineum*. **Ref:** 5158.**17651 Polyhalogenated homosesquiterpenic fatty acid B**(6*E*,8*E*,12*E*)-3-Methylene-4-oxo-7,11-dimethyl-(10*R**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid C₁₆H₁₉BrCl₂O₃ (410.14). $[\alpha]_D = +37.6^\circ$ ($c = 0.14$, MeOH). **Source:** RUAN GU HAI TOU HONG *Plocamium cartilagineum*. **Ref:** 5158.**17652 Polyhalogenated homosesquiterpenic fatty acid C**(6*E*,8*E*,12*E*)-3-Methylene-(4*R*)-hydroxy-7,11-dimethyl-(10*R**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid C₁₆H₂₁BrCl₂O₃ (412.15). $[\alpha]_D = +30.1^\circ$ ($c = 0.14$, MeOH). **Source:** RUAN GU HAI TOU HONG *Plocamium cartilagineum*. **Ref:** 5158.**17653 Polyhalogenated homosesquiterpenic fatty acid D**(6*E*,8*E*,12*E*)-3-Methylene-(4*R*)-hydroxy-7,11-dimethyl-(10*S**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid oil C₁₆H₂₂Cl₂O₃ (333.26). $[\alpha]_D = 15.4^\circ$ ($c = 0.18$, MeOH). **Source:** RUAN GU HAI TOU HONG *Plocamium cartilagineum*. **Ref:** 5158.

17654 Polyphyllin C

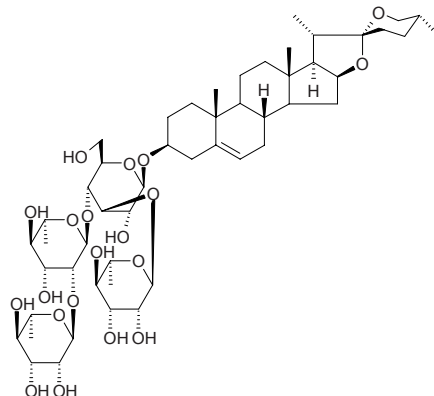
Diosgenin-3- α -L-rhamnopyranosyl(1 \rightarrow 3)- β -D-glucopyranoside C₃₉H₆₂O₁₂ (722.92). $[\alpha]_D^{25} = -97.3^\circ$ ($c = 0.07$, pyridine). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 6.23 μ g/mL; control *cis*-Platin, HeLa, IC₅₀ = 0.75 μ g/mL)^[4788]; cytotoxic (*in vitro*: A375, IC₅₀ = (3.31 \pm 2.51) μ mol/L, control Mithramycin, IC₅₀ = (0.37 \pm 0.05) μ mol/L; L929, IC₅₀ = (4.37 \pm 2.89) μ mol/L, Mithramycin, IC₅₀ = (0.31 \pm 0.03) μ mol/L; HeLa, IC₅₀ = (4.29 \pm 1.89) μ mol/L, Mithramycin, IC₅₀ = (0.19 \pm 0.03) μ mol/L)^[5000]. **Source:** HU BEI HUANG JING *Polygonatum zanlanscianense* (rhizome: yield = 0.00025%dw)^[4788], HUANG SHAN YAO *Dioscorea panthaica* (rhizome), ZAO XIU Paris *polyphylla*. **Ref:** 6, 2996, 4788, 5000.

**17655 Polyphyllin D**

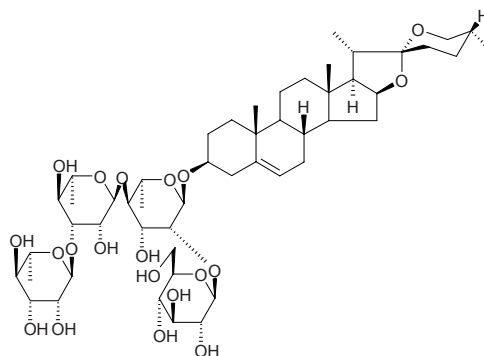
Diosgenin-3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside [76296-72-5] C₄₄H₇₀O₁₆ (855.04). Crystals (MeOH), mp 275~280°C, $[\alpha]_D = -113^\circ$ ($c = 0.53$, MeOH). **Pharm:** Hemostatic. **Source:** ZAO XIU Paris *polyphylla*. **Ref:** 2996, 3355.

**17656 Polyphyllin E**

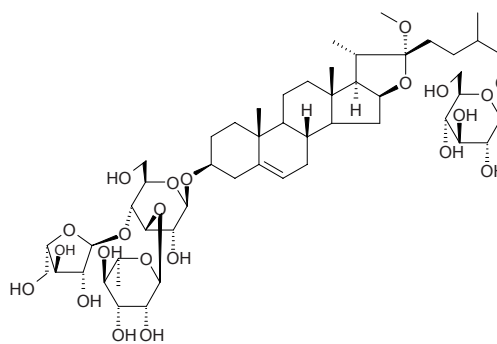
Diosgenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-rhamnopyranosyl(1 \rightarrow 4)[α -L-rhamnopyranosyl(1 \rightarrow 3)]- β -D-glucopyranoside C₅₁H₈₂O₂₀ (1015.21). **Source:** ZAO XIU Paris *polyphylla*. **Ref:** 2996.

**17657 Polyphyllin F**

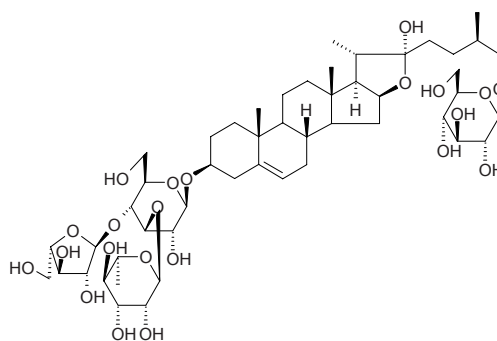
Diosgenin 3-O-[α -L-rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-rhamnopyranoside] C₅₁H₈₂O₂₀ (1015.21). **Source:** ZAO XIU Paris *polyphylla*. **Ref:** 2996.

**17658 Polyphyllin G**

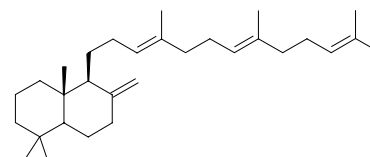
C₅₁H₈₄O₂₂ (1049.22). **Source:** ZAO XIU Paris *polyphylla*. **Ref:** 3276.

**17659 Polyphyllin H**

C₅₀H₈₂O₂₂ (1035.20). **Source:** ZAO XIU Paris *polyphylla*. **Ref:** 3276.

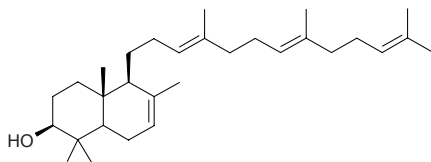
**17660 α -Polypodatetraene**

[88902-02-7] C₃₀H₅₀ (410.73). Oil, $[\alpha]_D^{23} = +27.4^\circ$ ($c = 0.4$, CHCl₃). **Source:** DUO ZU JUE *Polypodium vulgare*, FU RUI ER JUE *Polystichum fauriei*, LUO YAN CAO *Lemmaphyllum microphyllum*. **Ref:** 3277, 2839.

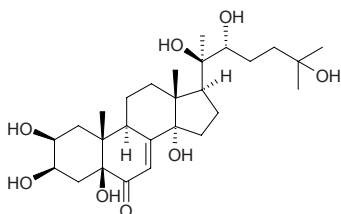


17661 (13E,17E)-Polypoda-7,13,17,21-tetraen-3 β -ol

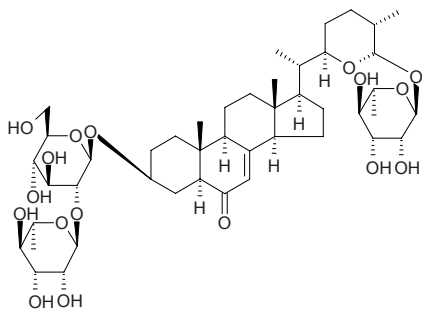
$C_{30}H_{50}O$ (426.73). Oil, $[\alpha]_D^{20} = +3.8^\circ$ ($c = 1.4$). Source: HUANG NIU MU *Cratogeomys cochinchinense*. Ref: 1907.

**17662 Polypodine B**

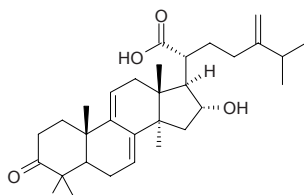
[18069-14-2] $C_{27}H_{44}O_8$ (496.65). White powder, mp 252~254°C. Pharm: Insect ecdysone; larvicide (larva growth inhibitor of *Acroepiopsis assectella*); antineoplastic (inhibits EBV-EA induction). Source: BAI MAO XIA KU CAO *Ajuga decumbens*, DA HUA JIAN QIU LUO *Lychnis fulgens*, DUO ZU JUE *Polypodium vulgare*, LU CAO *Rhaponticum carthamoides*, PU FU JIN GU CAO *Ajuga reptans*, MAO JIAN QIU LUO *Lychnis coronaria*. Ref: 658, 693, 2189.

**17663 Polypodoside A**

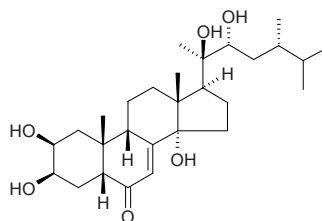
[119784-25-7] $C_{45}H_{72}O_{17}$ (885.07). Colorless needles (alcohol), mp 198~200°C, $[\alpha]_D^{20} = -37^\circ$ ($c = 0.3$, MeOH). Pharm: Sweetener. Source: DUO ZU JUE *Polypodium vulgare*, TIAN GEN DUO ZU JUE *Polypodium glycyrrhiza*. Ref: 3746, 3747.

**17664 Polyporenic acid C**

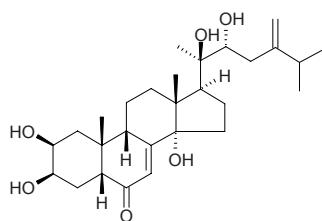
[465-18-9] $C_{31}H_{46}O_4$ (482.71). White columnar crystals, mp 258~260°C. Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%)^[4616]. Source: FU LING *Poria cocos* (sclerotium; yield = 0.00013%dw)^[4616]. Ref: 473, 4616.

**17665 Polyporusterone A**

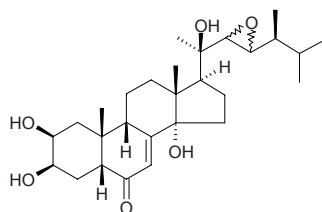
[141360-88-5] $C_{28}H_{46}O_6$ (478.68). Needles (MeOH), mp 261.5°C, $[\alpha]_D^{20} = +52.9^\circ$ ($c = 0.61$, EtOH). Pharm: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref: 3278.

**17666 Polyporusterone B**

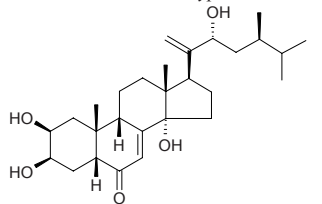
[141360-89-6] $C_{28}H_{44}O_6$ (476.66). Needles (MeOH), mp 250°C, $[\alpha]_D^{20} = +56.1^\circ$ ($c = 0.46$, EtOH). Pharm: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref: 3278.

**17667 Polyporusterone C**

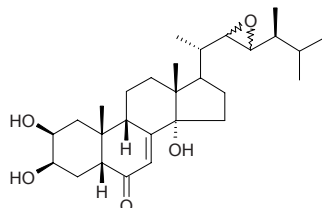
[141360-90-9] $C_{28}H_{44}O_6$ (476.66). Needles (MeOH), mp 250°C. Pharm: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref: 3278.

**17668 Polyporusterone D**

[141360-91-0] $C_{28}H_{44}O_5$ (460.66). Amorphous powder. Pharm: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref: 3278.

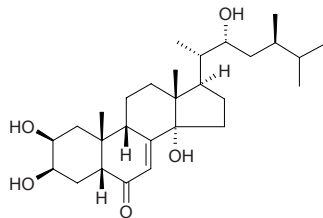
**17669 Polyporusterone E**

[141360-92-1] $C_{28}H_{44}O_5$ (460.66). Needles (MeOH), mp 232°C. Pharm: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref: 3278.

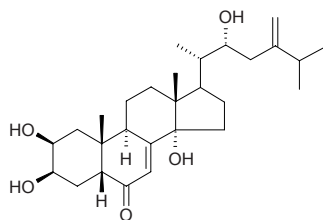


17670 Polyporusterone F

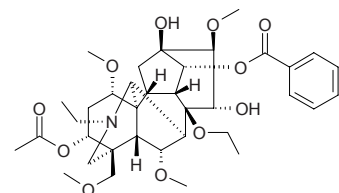
[141360-93-2] $C_{28}H_{46}O_5$ (462.68). Needles (MeOH), mp 251°C. Pharm.: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref.: 3278.

**17671 Polyporusterone G**

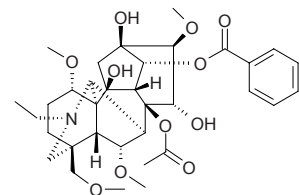
[141360-94-3] $C_{28}H_{44}O_5$ (460.66). Amorphous powder. Pharm.: Cytotoxic. Source: ZHU LING *Polyporus umbellatus*. Ref.: 3278.

**17672 Polyschistine A**

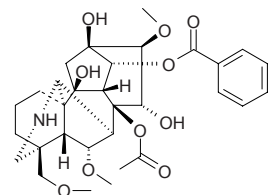
$C_{36}H_{51}NO_{11}$ (673.81). Source: BEI WU TOU *Aconitum kusnezoffii*, DUO LIE WU TOU *Aconitum polyschistum*. Ref.: 1521.

**17673 Polyschistine B**

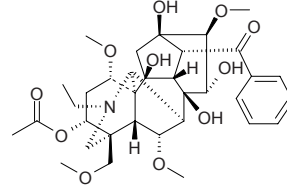
[96562-89-9] $C_{34}H_{47}NO_{11}$ (645.75). mp 182~185°C. Source: DUO LIE WU TOU *Aconitum polyschistum*. Ref.: 3279.

**17674 Polyschistine C**

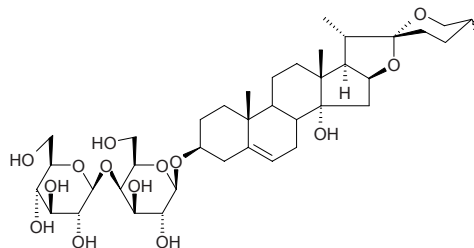
[96562-90-2] $C_{31}H_{41}NO_{10}$ (587.67). Amorphous solid. Source: DUO LIE WU TOU *Aconitum polyschistum*. Ref.: 3279.

**17675 Polyschistine D**

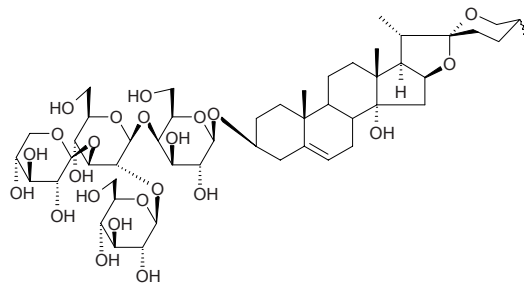
[119347-26-1] $C_{34}H_{47}NO_{11}$ (645.75). Needles (EtOAc), mp 251~252°C, $[\alpha]_D = +11.4^\circ$ (CHCl₃). Source: DUO LIE WU TOU *Aconitum polyschistum*. Ref.: 3280.

**17676 Polyspirostanol PO₁**

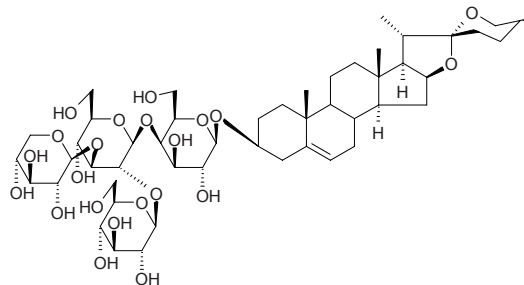
$C_{39}H_{62}O_{14}$ (754.92). Source: HUANG JING *Polygonatum sibiricum*. Ref.: 660.

**17677 Polyspirostanol PO₂**

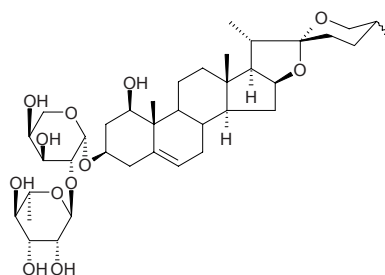
$C_{50}H_{80}O_{23}$ (1049.18). Source: HUANG JING *Polygonatum sibiricum*. Ref.: 660.

**17678 Polyspirostanol PO₃**

$C_{50}H_{80}O_{22}$ (1033.18). Source: HUANG JING *Polygonatum sibiricum*. Ref.: 660.

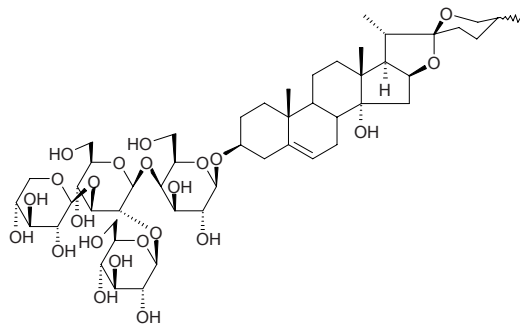
**17679 Polyspirostanol PO₅**

$C_{38}H_{60}O_{12}$ (708.89). Source: HUANG JING *Polygonatum sibiricum*. Ref.: 660.

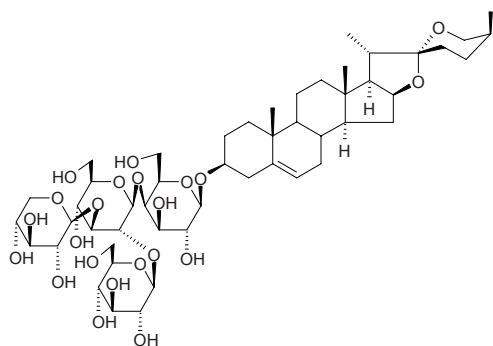


17680 Polyspirostanol PO₆

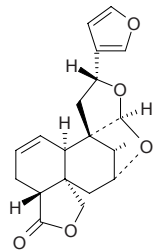
C₅₀H₈₀O₂₃ (1049.18). Source: HUANG JING *Polygonatum sibiricum*. Ref: 660.

**17681 Polyspirostanol PO₆**

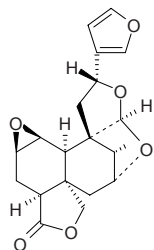
C₅₀H₈₀O₂₂ (1033.18). Source: HUANG JING *Polygonatum sibiricum*. Ref: 660.

**17682 Polystachyne A**

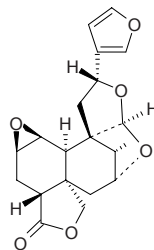
C₂₀H₂₂O₅ (342.40). mp 204~206°C, [α]_D²⁰ = 8.5° (c = 0.155, CHCl₃). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

**17683 Polystachyne B**

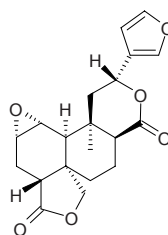
C₂₀H₂₂O₆ (358.39). mp 217~219°C, [α]_D²⁰ = 0.0° (c = 0.159, CHCl₃). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

**17684 Polystachyne C**

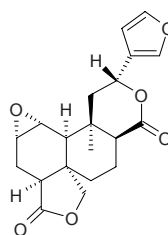
C₂₀H₂₂O₆ (358.39). mp 244~247°C, [α]_D²⁰ = -15.09° (c = 0.159, CHCl₃). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

**17685 Polystachyne D**

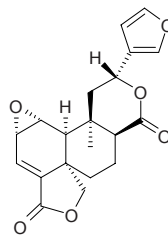
C₂₀H₂₂O₆ (358.39). mp 180~182°C, [α]_D²⁰ = -78.3° (c = 0.279, CHCl₃). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

**17686 4αH-Polystachyne D**

C₂₀H₂₂O₆ (358.39). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

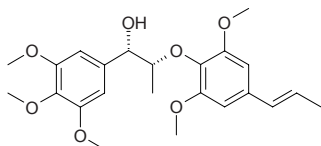
**17687 Polystachyne E**

C₂₀H₂₀O₆ (356.38). mp 251~253°C. Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

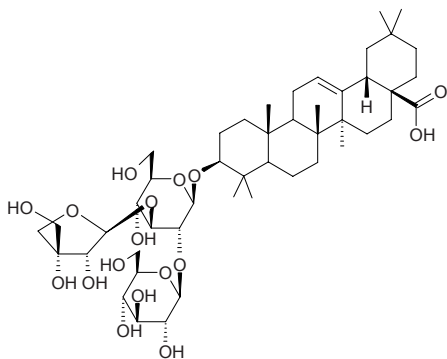


17688 Polysyphorin

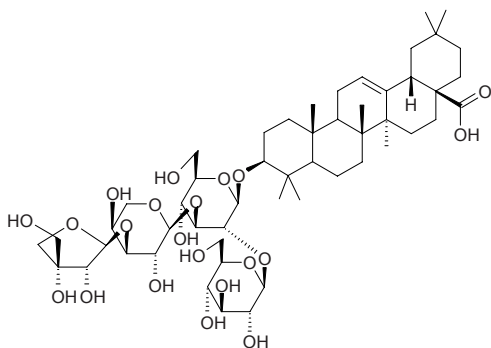
threo-*A*⁷-7-Hydroxy-3,4,5,3',5'-pentamethoxy-8-*O*-4'-neoligna [137196-25-9] C₂₃H₃₀O₇ (418.49). Colorless prismatic crystals, mp 147–148°C, [α]_D²⁵ = 0° (*c* = 0.40, chloroform). **Pharm:** Platelet aggregation inhibitor (25 μmol/L, InRt = 94%, IC₅₀ = 13.0 μmol/L); PAF receptor antagonist (12 μmol/L, InRt = 72%, IC₅₀ = 10 μmol/L). **Source:** ZHANG YE HU JIAO *Piper polysyphorum*. **Ref:** 191, 1578.

**17689 Pomertia ridleyi saponin 2**

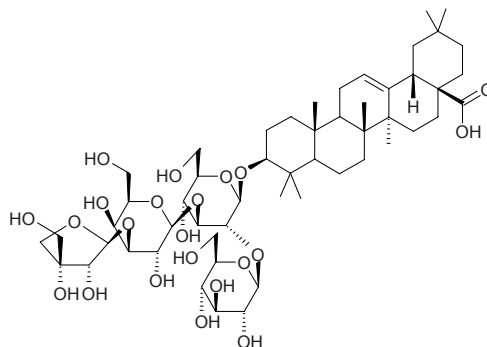
3-*O*-β-*D*-Apiofuranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-β-*D*-glucopyranosyl-oleanolic acid C₄₇H₇₆O₁₇ (913.12). [α]_D²¹ = +4.92° (*c* = 0.32, MeOH). **Source:** LI DE LI FAN LONG YAN *Pomertia ridleyi* (stem cortex). **Ref:** 3455.

**17690 Pomertia ridleyi saponin 3**

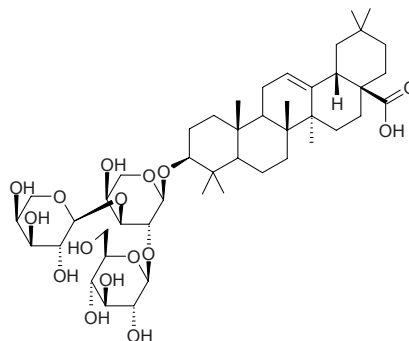
3-*O*-β-*D*-Apiofuranosyl-(1→3)-α-*L*-arabinopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-β-*D*-glucopyranosyl-oleanolic acid C₅₂H₈₄O₂₁ (1045.24). [α]_D²¹ = +16.0° (*c* = 0.25, MeOH). **Source:** LI DE LI FAN LONG YAN *Pomertia ridleyi* (stem cortex). **Ref:** 3455.

**17691 Pomertia ridleyi saponin 5**

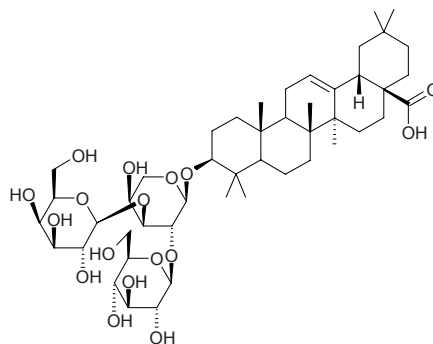
3-*O*-β-*D*-Apiofuranosyl-(1→3)-β-*D*-galactopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-β-*D*-glucopyranosyl-oleanolic acid C₅₃H₈₆O₂₂ (1075.26). [α]_D²¹ = +10.5° (*c* = 0.98, MeOH). **Source:** LI DE LI FAN LONG YAN *Pomertia ridleyi* (stem cortex). **Ref:** 3455.

**17692 Pomertia ridleyi saponin 6**

3-*O*-α-*L*-Arabinopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-α-*L*-arabinopyranosyl-oleanolic acid C₄₆H₇₄O₁₆ (883.09). [α]_D²¹ = -27.3° (*c* = 0.13, MeOH). **Source:** LI DE LI FAN LONG YAN *Pomertia ridleyi* (stem cortex). **Ref:** 3455.

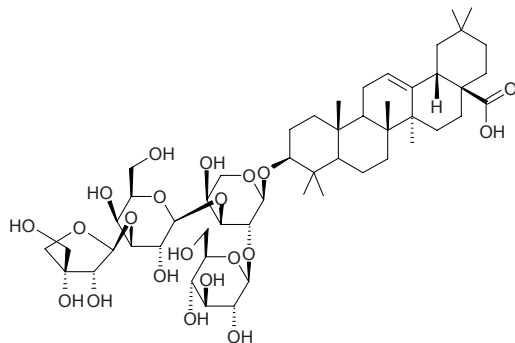
**17693 Pomertia ridleyi saponin 7**

3-*O*-β-*D*-Galactopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-α-*L*-arabinopyranosyl-oleanolic acid C₄₇H₇₆O₁₇ (913.12). [α]_D²¹ = +6.7° (*c* = 0.15, MeOH). **Source:** LI DE LI FAN LONG YAN *Pomertia ridleyi* (stem cortex). **Ref:** 3455.

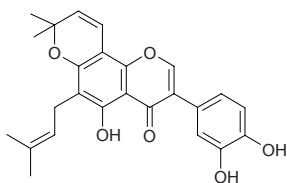


17694 Pomelia ridleyi saponin 8

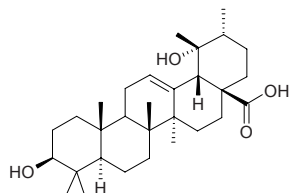
3-*O*- β -D-Apiofuranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl-oleanolic acid C₅₂H₈₄O₂₁ (1045.24).
 $[\alpha]_D^{21} = +12.8^\circ$ ($c = 0.22$, MeOH). **Source:** LI DE LI FAN LONG YAN
Pometia ridleyi (stem cortex). **Ref:** 3455.

**17695 Pomiferin**

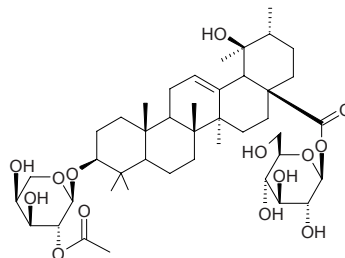
[572-03-2] C₂₅H₂₄O₆ (420.47). **Pharm:** Antimicrobial. **Source:** SANG CHENG
Maclura pomifera. **Ref:** 658.

**17696 Pomolic acid**

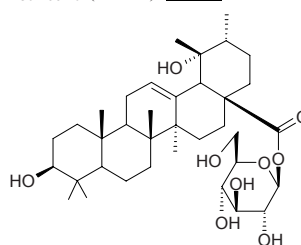
3 β ,19 α -Dihydroxyurs-12-en-28-oic acid; 19 α -Hydroxyursolic acid
 [13849-91-7] C₃₀H₄₈O₄ (472.71). Colorless thin acicular crystals
 (methanol–water), mp 293–295°C, $[\alpha]_D^{32} = +6.1^\circ$ ($c = 0.69$, pyridine); mp
 301–303°C, $[\alpha]_D^{20} = +37^\circ$ ($c = 2.0$, THF). **Pharm:** Antibacterial
 (*Staphylococcus aureus*, MIC = 25 μ g/mL, var. *Streptococcus*, MIC =
 12.5–25 μ g/mL; *Bacillus pyocyaneus*, MIC = 25 μ g/mL); cytotoxic (P₃₈₈, ED₅₀
 = 2.9 μ g/mL); cytotoxic inactive (HSC-2, IC₅₀ > 200 μ g/mL; HGF, IC₅₀ >
 200 μ g/mL)^[5160]. **Source:** CHI NAN *Syzygium buxifolium*, DI YU *Sanguisorba*
officinalis, MI DIE XIANG *Rosmarinus officinalis*, WU LING ZHI
Trogopterus xanthipes; *Pteromys volans*, SHE MEI *Duchesnea indica*, WU
 SE MEI *Lantana camara*. **Ref:** 6, 600, 638, 900, 5160.

**17697 Pomolic acid-3 β -*O*- α -L-2-acetoxyarabinopyranosyl-28-*O*- β -D-glucopyranoside**

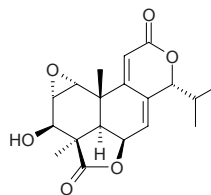
C₄₃H₆₈O₁₄ (809.01). **Pharm:** promotes biosynthesis of prostaglandin PGI₂.
Source: GOU GU YE *Ilex cornuta*. **Ref:** 660.

**17698 Pomolic acid-28-*O*- β -D-glucopyranoside**

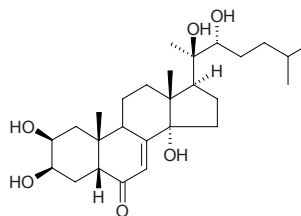
C₃₆H₅₈O₉ (634.86). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 3281.

**17699 Ponalactone A**

[33722-77-9] C₁₉H₂₂O₆ (346.39). **Pharm:** Inhibits mitosis (plant cells). **Source:**
 TAI WAN LUO HAN SONG *Podocarpus nakaii*. **Ref:** 658.

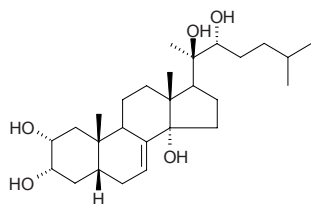
**17700 Ponasterone A**

[13408-56-5] C₂₇H₄₄O₆ (464.65). mp 259–260°C (dec). **Pharm:** Insect
 ecdysone. **Source:** DONG FANG GOU JI *Woodwardia orientalis*, DUAN YE
 LUO HAN SONG SHI *Podocarpus macrophyllus* var. *maki*, DUAN YE
 LUO HAN SONG YE *Podocarpus macrophyllus* var. *maki*, JUE *Pteridium*
aquilinum var. *latiusculum*, LUO HAN SONG SHI *Podocarpus macrophyllus*,
 LUO HAN SONG YE *Podocarpus macrophyllus*, TAI WAN LUO HAN
 SONG *Podocarpus nakaii* (in 1966, the compound was isolated from the plant
 by K.Nakanishi et al.)^[5505], XIAO YE GUAN ZHONG *Matteuccia*
struthiopteris, ZI QI *Osmunda japonica*, ZI SHAN *Taxus cuspidata*. **Ref:** 6,
 658, 660, 5505.

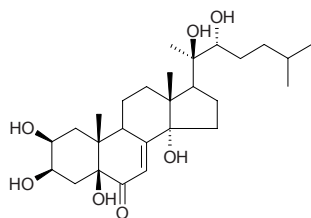


17701 Ponasterone B

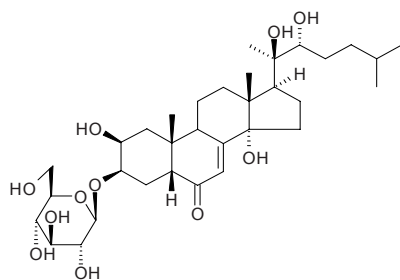
$C_{27}H_{46}O_5$ (450.66). Source: TAI WAN LUO HAN SONG *Podocarpus nakaii* (in 1966, the compound was isolated from the plant by K.Nakanishi et al.). Ref: 5505.

**17702 Ponasterone C**

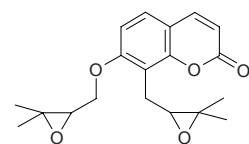
$C_{27}H_{44}O_7$ (480.65). Source: TAI WAN LUO HAN SONG *Podocarpus nakaii* (in 1966, the compound was isolated from the plant by K.Nakanishi et al.). Ref: 5505.

**17703 Ponasteroside A**

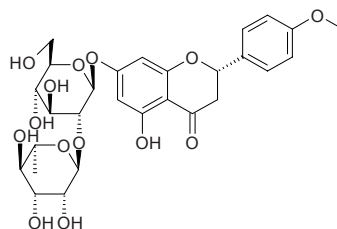
Warabisterone [20117-33-3] $C_{33}H_{54}O_{11}$ (626.79). mp 278.0~279.5°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6.

**17704 Poncimarin**

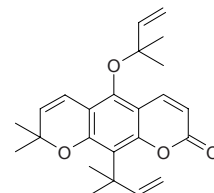
[55916-48-8] $C_{19}H_{22}O_5$ (330.38). Needles (MeOH), mp 140°C, $[\alpha]_D^{25} = -56.2^\circ$ ($c = 9.4$, $CHCl_3$). Source: GOU JU ZHI SHI *Poncirus trifoliata*. Ref: 3282.

**17705 Poncirin**

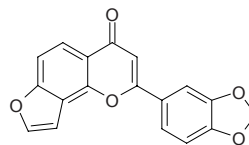
[14941-08-3] $C_{28}H_{34}O_{14}$ (594.57). mp 211~212°C. Pharm: Bitter principle; passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β -hexosaminidase release from RBL-2H3 cells, $IC_{50} > 500\mu\text{mol/L}$, control Azelastine, $IC_{50} = (35\pm 2)\mu\text{mol/L}$; PCA reaction inhibitor, 20mg/kg orl, InRt = $(75.7\pm 7.8)\%$)^[5041]. Source: GOU JU *Poncirus trifoliata*, GOU JU YE *Poncirus trifoliata*, YOU⁽⁴⁾ *Citrus grandis*, *Citrus* sp., *Eremocitrus* sp. Ref: 6, 658, 5041.

**17706 Pongolin**

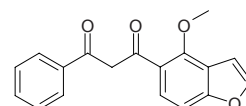
$C_{24}H_{28}O_4$ (380.49). Pharm: Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = $(40.3\pm 2.3)\%$ (viability > 80%), β -Carotene, EBV-EA-positive cells = $(34.3\pm 1.1)\%$ (viability > 80%), Curcumin, EBV-EA-positive cells = $(22.8\pm 1.8)\%$ (viability > 80%), compound $IC_{50} = 338\text{mol ratio}/32\text{ pmol TPA}$, β -Carotene, $IC_{50} = 400\text{mol ratio}/32\text{ pmol TPA}$, Curcumin, $IC_{50} = 341\text{mol ratio}/32\text{ pmol TPA}$). Source: CHENG ZI *Citrus junos*, *Citrus medica* var. *etrog*, LI HUA JU *Citrus tachibana*, *Citrus rugulosa*, *Citrus jambhiri*, *Citrus tamurana*. Ref: 5048.

**17707 Pongaglabrone**

$C_{18}H_{10}O_5$ (306.28). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00045%dw). Ref: 4624.

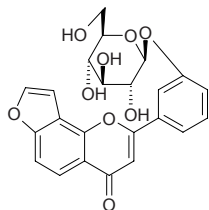
**17708 Pongamol**

Lanceolatin C [484-33-3] $C_{18}H_{14}O_4$ (294.31). Yellow prismatic crystals (methanol), mp 130~131°C. Pharm: Nematocide (0.1mg/mL, cultured with larva of *toxocara canis*, in 6 hours RM = 0); sedative; LD_{50} (ip) = 17.14mg/kg. Source: SHUI LIU DOU *Pongamia pinnata*, HUI YE GEN *Tephrosia purpurea*. Ref: 900, 1521.

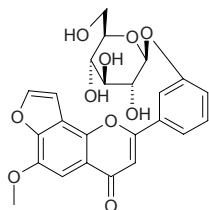


17709 Pongamoside A

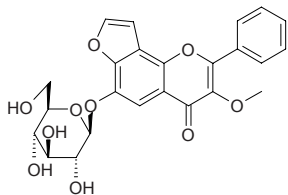
3'-*O*- β -D-Glucopyranosyl[2'',3'':7,8]furanoflavone C₂₃H₂₀O₉ (440.41). Pale yellow crystals (DMSO), mp 259~260°C, $[\alpha]_D^{31} = -33.6^\circ$ ($c = 0.280$, pyridine). Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3790.

**17710 Pongamoside B**

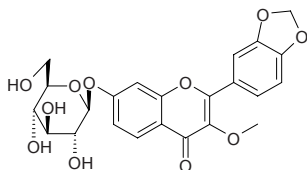
6-Methoxy-3'-*O*- β -D-glucopyranosyl[2'',3'':7,8]furanoflavone C₂₄H₂₂O₁₀ (470.44). Pale yellow solid. Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3790.

**17711 Pongamoside C**

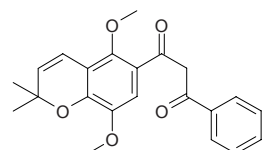
3-Methoxy-6-*O*- β -D-glucopyranosyl[2'',3'':7,8]furanoflavone C₂₄H₂₂O₁₀ (470.44). White crystals (DMSO), mp 237~238°C, $[\alpha]_D^{31} = -32.8^\circ$ ($c = 0.265$, pyridine). Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3790.

**17712 Pongamoside D**

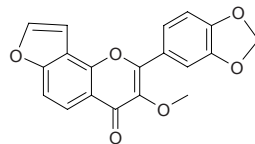
3-Methoxy-3',4'-methylenedioxy-7-*O*- β -D-glucopyranosyl flavone C₂₃H₂₂O₁₁ (474.43). White crystals (DMSO), mp 214~215°C, $[\alpha]_D^{31} = -56.6^\circ$ ($c = 0.265$, pyridine). Source: SHUI LIU DOU *Pongamia pinnata* (fruit). Ref: 3790.

**17713 Ponganone I**

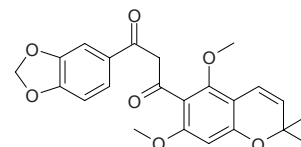
C₂₂H₂₂O₅ (366.42). Source: HONG E JI XUE TENG *Millettia erythrocalyx* (stem cortex: yield = 0.00010%dw). Ref: 4624.

**17714 Pongapin**

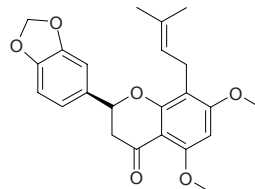
[481-99-2] C₁₉H₁₂O₆ (336.30). mp 190~191°C. Source: SHUI LIU DOU *Pongamia pinnata*. Ref: 6.

**17715 Pongapinone A**

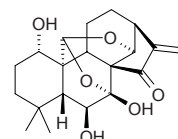
C₂₃H₂₂O₇ (410.43). Pharm: Cytotoxic (*in vitro*, Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 23.8μg/mL, CD = 5μg/mL, CI = 4.8; control Sulforaphane, IC₅₀ = 2.1μg/mL, CD = 0.087μg/mL, CI = 24.1). Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00052%). Ref: 4721.

**17716 Pongapinone B**

C₂₃H₂₄O₆ (396.44). Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0059%). Ref: 4721.

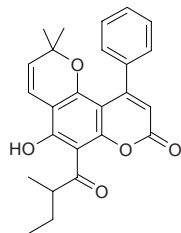
**17717 Ponicidin**

Rubescensine B [52617-37-5] C₂₀H₂₆O₆ (362.43). Colorless acicular crystals (methanol), mp 238~241; mp 236~241°C, $[\alpha]_D^{23} = -107^\circ$ ($c = 0.12$, pyridine), mp 236~238°C, $[\alpha]_D^{17} = -118^\circ$ ($c = 0.1$, pyridine). Pharm: Antineoplastic (many types of transplanted tumor); cytotoxic (K562, IC₅₀ = 2.26μmol/L, control Cisplatin IC₅₀ = 3.84μmol/L; Bcap37, IC₅₀ = 6.76μmol/L, control Cisplatin IC₅₀ = 1.54μmol/L; BGC823, IC₅₀ = 55.17μmol/L, control Cisplatin IC₅₀ = 2.54μmol/L; BIU87, IC₅₀ = 13.26μmol/L, control Cisplatin IC₅₀ = 4.34μmol/L; CA, IC₅₀ = 0.06μmol/L, control Cisplatin IC₅₀ = 0.88μmol/L; CNE, IC₅₀ = 13.26μmol/L, control Cisplatin IC₅₀ = 6.54μmol/L; HeLa, IC₅₀ = 11.31μmol/L, control Cisplatin IC₅₀ = 3.60μmol/L)^[4353], cytotoxic (EAC, *in vitro*); anti-angiogenic (*in vitro*, 1.5μg/mL)^[3001]; LD₅₀ (mus, ip) = 45.1mg/kg. Source: DONG LING CAO *Rabdosia rubescens* (leaf: mean content collected in Aug. = 0.206%^[5508]), LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 5, 504, 1521, 3001, 4067, 4353, 5508.

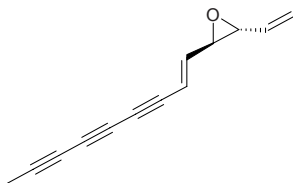


17718 Ponnalide

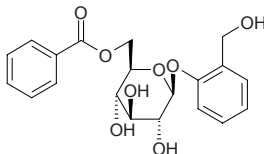
[5302-74-9] C₂₅H₂₄O₅ (404.47). Crystals, mp 159~160°C. Source: HAI TANG GUO *Calophyllum inophyllum*. Ref: 3283.

**17719 Ponticaepoxide**

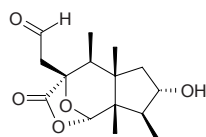
[3562-36-5] C₁₃H₁₀O (182.22). Crystals (pet. ether), mp 66°C, [α]_D²³ = +201° (c = 1.0, Me₂CO). Source: HUANG HUA HAO *Artemisia annua*, *Achillea* spp., *Artemisia* spp., *Chrysanthemum* spp., *Tanacetum* spp., family Asteraceae spp. Ref: 3284, 3285, 3286.

**17720 Populin**

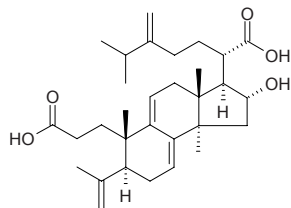
[99-17-2] C₂₀H₂₂O₈ (390.39). Crystals +2H₂O (H₂O), crystals (EtOH), mp 180°C, [α]_D = -2° (c = 5, pyridine), [α]_D²¹ = -29° (c = 20%, Me₂CO aq.). Source: MAO BAI YANG *Populus tomentosa*, *Populus* spp., *Salix* spp. Ref: 1521, 3287.

**17721 Porellapinguisanolid**

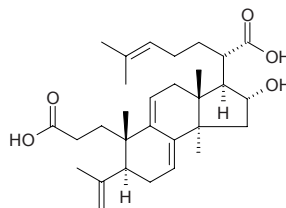
C₁₅H₂₂O₅ (282.34). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.

**17722 Poricoic acid A**

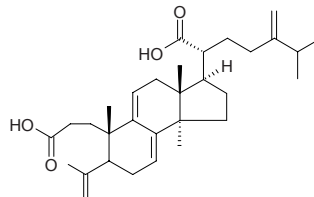
C₃₁H₄₆O₅ (498.71). Pharm: Cytotoxic (*in vitro*, for all NCI 60 hmn cancer cell lines, GI₅₀ = 15-30 μmol/L)^[4616]; antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32 pmol, 20 ng TPA = 100%), viability of Raji cells = 70%; reference compound β-Carotene, relative percentage = 8.6%)^[4616]. Source: FU LING *Poria cocos* (sclerotium: yield = 0.00050% dw)^[4616]. Ref: 2, 4616.

**17723 Poricoic acid B**

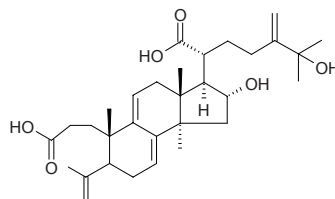
C₃₀H₄₄O₅ (484.68). Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32 pmol, 20 ng TPA = 100%), viability of Raji cells = 70%; reference compound β-Carotene, relative percentage = 8.6%). Source: FU LING *Poria cocos* (sclerotium: yield = 0.00066% dw). Ref: 2, 4616.

**17724 Poricoic acid C**

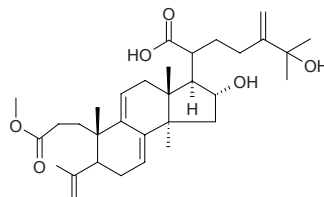
[151200-89-4] C₃₁H₄₆O₄ (482.71). Amorphous powder, [α]_D²⁶ = +40° (c = 0.5, MeOH). Source: FU LING *Poria cocos*. Ref: 3288.

**17725 Poricoic acid D**

[151200-90-7] C₃₁H₄₆O₆ (514.71). Amorphous powder, [α]_D²⁶ = +11° (c = 1, MeOH). Source: FU LING *Poria cocos*. Ref: 3288.

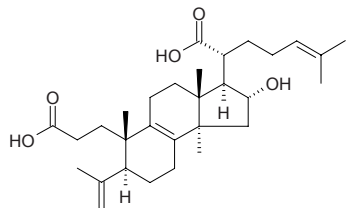
**17726 Poricoic acid DM**

[151200-91-8] C₃₂H₄₈O₆ (528.74). Amorphous powder, [α]_D²⁶ = +25° (c = 0.5, MeOH). Source: FU LING *Poria cocos*. Ref: 3288.

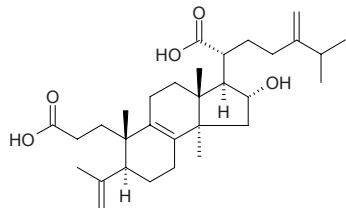


17727 Poricoic acid G

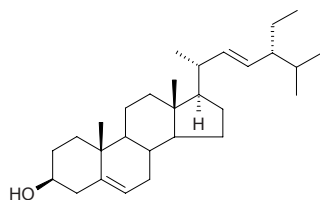
16 α -Hydroxy-3,4-seco-lanosta-4(28),8,24-triene-3,21-dioic acid C₃₀H₄₆O₅ (486.7). Colorless needles, mp 260°C (dec), [α]_D²⁰ = +38° (c = 0.36, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, GI₅₀ = 39.3nmol/L; for all the other NCI 59 hmn cancer cell lines, GI₅₀ > 22 μ mol/L); antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.00033%dw). **Ref:** 4616.

**17728 Poricoic acid H**

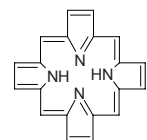
16 α -Hydroxy-3,4-seco-24-methyl-lanosta-4(28),8,24(24¹)-triene-3,21-dioic acid C₃₁H₄₈O₅ (500.73). Colorless needles, mp 270°C (dec), [α]_D²⁰ = +43° (c = 0.34, MeOH). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.00028%dw). **Ref:** 4616.

**17729 Poriferasterol**

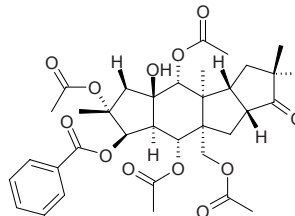
[481-16-3] C₂₉H₄₈O (412.71). Crystals (EtOH), mp 156°C, [α]_D = -46° (CHCl₃). **Source:** E ZHANG TENG *Schefflera arboricola*, Burrowing sponge *Cliona celata*, sponge *Haliclona variclonia*, sponge *Sphaeciospongia vesparia*, green algae *Chlorella* spp., protozoan *Ochromonas malhamensis*. **Ref:** 1521, 3289.

**17730 Porphyrin**

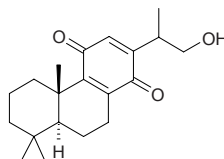
C₂₀H₁₄N₄ (310.36). **Source:** JI ZI KE *Gallus gallus domesticus*, ZHEN ZHU MU *Cristaria plicata*; *Hyriopsis cumingii*. **Ref:** 6, 3290.

**17731 Portlandicine**

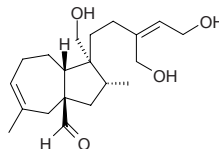
2 α ,5 α ,14 α ,17 α -Tetraacetoxy-3 β -benzoyloxy-15 β -hydroxy-9-oxoparaliane C₃₅H₄₄O₁₂ (656.73). Amorphous solid, [α]_D²⁵ = -57.7° (c = 0.10, CHCl₃). **Pharm:** Multidrug resistance (MDR) reversing activity (hmn MDR1 gene transfected mouse lymphoma cells, FSC: forward scatter count = 529.87, DMSO control = 519.74; SSC: side scatter count = 244.47, DMSO control = 234.67; FL-1: fluorescence intensity = 17.00, DMSO control = 5.92). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 4919.

**17732 Portlanquinol**

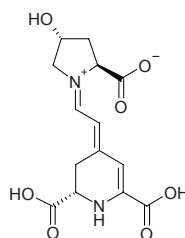
16-Hydroxy-abieta-8,12-diene-11,14-dione C₂₀H₂₈O₃ (316.44). Yellow oil, [α]_D²⁵ = +33.4° (c = 0.10, CHCl₃). **Pharm:** P-glycoprotein inhibitor (hmn MDR1 gene transfected mouse lymphoma cells, reverses multidrug resistance (MDR), toxic). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 5019.

**17733 Portulal**

[22571-65-9] C₂₀H₃₂O₄ (336.48). mp 113°C. **Pharm:** Plant growth regulator. **Source:** DA HUA MA CHI XIAN *Portulaca grandiflora*. **Ref:** 6, 658.

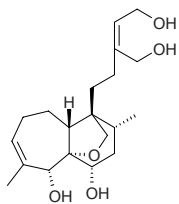
**17734 Portulaxanthine**

Portulaxanthin I [11042-69-6] C₁₄H₁₆N₂O₇ (324.30). **Source:** DA HUA MA CHI XIAN *Portulaca grandiflora*. **Ref:** 658.

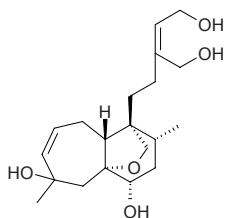


17735 Portulene

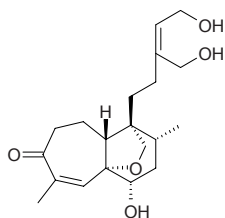
$C_{20}H_{32}O_5$ (352.48). Source: DA HUA MA CHI XIAN *Portulaca grandiflora*.
Ref: 3291.

**17736 Portulenol**

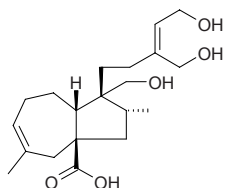
$C_{20}H_{32}O_5$ (352.48). Source: DA HUA MA CHI XIAN *Portulaca grandiflora*.
Ref: 3291.

**17737 Portulenone**

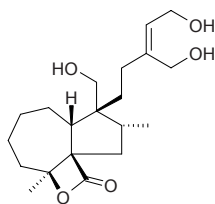
$C_{20}H_{30}O_5$ (350.46). Source: DA HUA MA CHI XIAN *Portulaca grandiflora*.
Ref: 3291.

**17738 Portulic acid**

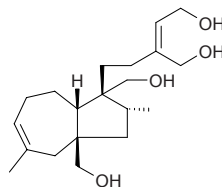
$C_{20}H_{32}O_5$ (352.48). Source: DA HUA MA CHI XIAN *Portulaca grandiflora*.
Ref: 3292.

**17739 Portulic lactone**

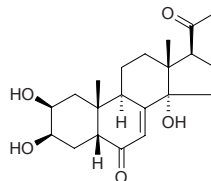
[98263-93-5] $C_{20}H_{32}O_5$ (352.48). Oil, $[\alpha]_D^{26.5} = +23.8^\circ$ ($c = 0.58$, EtOH).
Source: DA HUA MA CHI XIAN *Portulaca grandiflora*. Ref: 3292.

**17740 Portulol**

$C_{20}H_{34}O_4$ (338.49). Source: DA HUA MA CHI XIAN *Portulaca grandiflora*. Ref: 3292.

**17741 Poststerone**

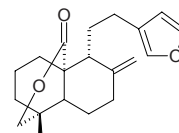
[10162-99-9] $C_{21}H_{30}O_5$ (362.47). Source: MA NIU XI *Cyathula capitata*. Ref: 6.

**17742 Potamogetonin**

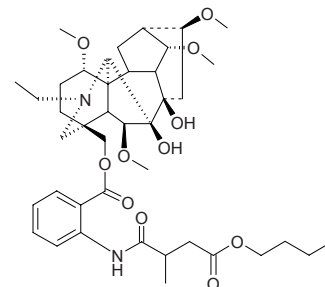
15,16-Epoxy-8(17),13(16),14-*ent*-labdatrien-20,19-olide $C_{20}H_{26}O_3$ (314.43).

White amorphous powder, $[\alpha]_D^{25} = -29.7^\circ$ ($c = 0.34$, $CHCl_3$). Pharm:

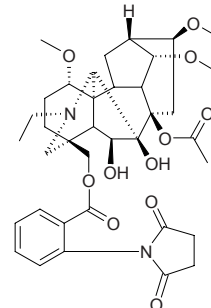
Phytotoxin (*Raphidocelis subcapitata*, $IC_{50} = 28.58 \mu\text{mol/L}$)^[5184]. Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**17743 Potanidine A**

$C_{41}H_{60}N_2O_{11}$ (756.94). White amorphous powder, $[\alpha]_D^{13} = +15.5^\circ$ ($c = 1.0$, methanol). Source: HEI SHUI CUI QUE *Delphinium potaninii*. Ref: 314.

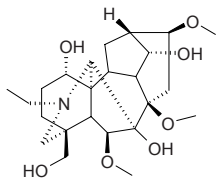
**17744 Potanidine B**

$C_{37}H_{48}N_2O_{11}$ (696.80). White amorphous powder, $[\alpha]_D^{24} = +28.6^\circ$ ($c = 0.07$, chloroform). Source: HEI SHUI CUI QUE *Delphinium potaninii*. Ref: 314.

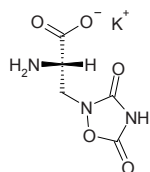


17745 Potanine

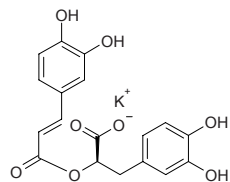
$C_{24}H_{39}NO_7$ (453.58). White amorphous powder. Source: E MEI CUI QUE HUA *Delphinium omeiense*. Ref: 2190.

**17746 Potassium quisqualate**

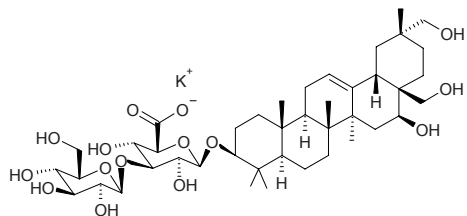
$C_5H_6KN_3O_5$ (227.22). Source: SHI JUN ZI *Quisqualis indica*, SHI JUN ZI YE *Quisqualis indica*. Ref: 3293, 3294.

**17747 Potassium rosmarinatate**

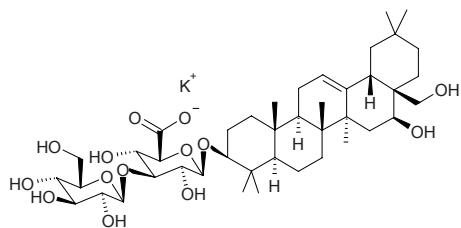
$C_{18}H_{15}KO_8$ (398.42). Tan amorphous powder. Source: XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2187.

**17748 Potassium salt of 29-hydroxylongispinogenin 3-O-β-D-glucopyranosyl(1→3)-β-D-glucuronopyranoside**

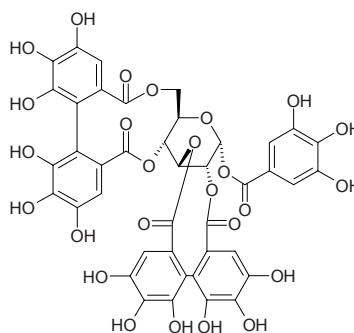
$C_{42}H_{67}KO_{15}$ (851.10). Amorphous powder, mp 290–293°C, $[\alpha]_D^{20} = +10.3^\circ$ ($c = 0.12$, MeOH). Source: CHI GENG TENG *Gymnema sylvestre* (leaf: yield = 0.0055%dw). Ref: 3037.

**17749 Potassium salt of longispinogenin 3-O-β-D-glucopyranosyl (1→3)-β-D-glucuronopyranoside**

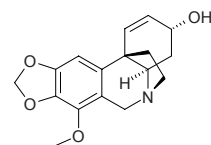
$C_{42}H_{67}KO_{14}$ (835.10). Amorphous powder, mp 305–310°C, $[\alpha]_D^{20} = +18.1^\circ$ ($c = 0.08$, MeOH). Source: CHI GENG TENG *Gymnema sylvestre* (leaf: yield = 0.0020%dw). Ref: 3037.

**17750 Potentillin**

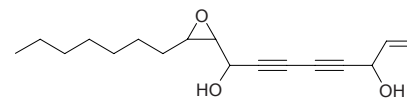
[82262-94-0] $C_{41}H_{28}O_{26}$ (936.66). Off-white amorphous powder +5H₂O, $[\alpha]_D^{20} = +108^\circ$ ($c = 0.7$, EtOH). Source: JIN YING YE *Rosa laevigata*, JIN YING ZI *Rosa laevigata*, LONG YA CAO *Agrimonia pilosa*, RI BEN LONG YA CAO *Agrimonia japonica*, SHE HAN WEI LING CAI *Potentilla kleiniana*, *Rubus* spp. Ref: 2988, 2884, 2970, 3104.

**17751 Powelline**

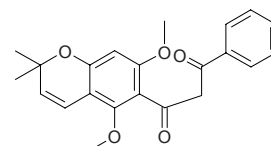
$C_{17}H_{19}NO_4$ (301.35). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb), *Crinum moorei*. Ref: 4000, 4952.

**17752 PQ-2**

[133921-58-1] $C_{17}H_{24}O_3$ (276.38). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2, 1521.

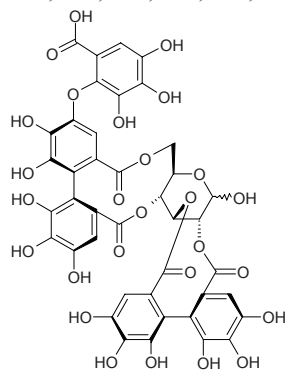
**17753 Praeacansone B**

$C_{22}H_{22}O_5$ (366.42). Pharm: Cytotoxic (*in vitro*, Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 6.5 μg/mL, CD = 3.6 μg/mL, CI = 1.8; control Sulforaphane, IC₅₀ = 2.1 μg/mL, CD = 0.087 μg/mL, CI = 24.1). Source: SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.00072%). Ref: 4721.

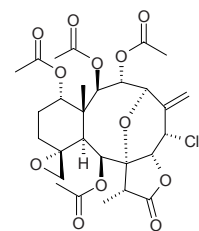


17754 Praecoxin A

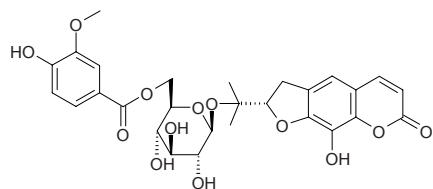
[85137-27-5] C₄₁H₂₈O₂₇ (952.66). Light brown powder, $[\alpha]_D^{22} = +45^\circ$ ($c = 0.5$, MeOH). **Pharm:** Antineoplastic (S₁₈₀ *in vivo*, 5mg/kg ip, biotic prolonged rate = 70%). **Source:** CHI YANG *Alnus japonica*, HONG RU CAO *Euphorbia makinoi*, HU LI *Quercus aliena*, HU TAO REN *Juglans regia*, JING JIE HUA *Stachyurus praecox*, XIAO YE YING MAO QI MU *Alnus hirsute* var. *microphylla*, *Terminalia calamansanai*, *Tibouchina semidecandra*. **Ref:** 2685, 3408, 3635, 3636, 3637, 2686, 3638, 3639, 3640.

**17755 Praelolide**

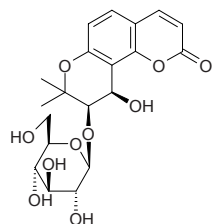
C₂₈H₃₅ClO₁₂ (599.04). White powder, mp 267~269°C, $[\alpha]_D^{25} = -26^\circ$ ($c = 2.4$, CHCl₃). **Source:** CUI DENG XIN LIU SHAN HU *Junceella fragilis*, DENG XIN LIU SHAN HU *Junceella juncea* (yield = 0.00032%). **Ref:** 4411, 4781.

**17756 Praeroside I**

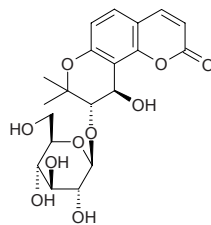
[121064-73-1] C₂₈H₃₀O₁₃ (574.54). Crystals, mp 143~145°C (dec), $[\alpha]_D^{24} = +202.3^\circ$ (H₂O). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 3295.

**17757 Praeroside II**

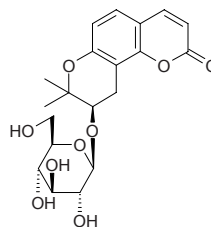
Campestrinoside [84458-87-7] C₂₀H₂₄O₁₀ (424.41). mp 172~173°C, $[\alpha]_D = -272.5^\circ$ (EtOH). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, FEN CHA DANG GUI *Angelica furcijuga* (flower), PING DI XI FENG QIN *Seseli campestre*. **Ref:** 1521, 4454.

**17758 Praeroside III**

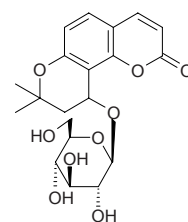
[117306-98-6] C₂₀H₂₄O₁₀ (424.41). Crystals, mp 134.5~136°C (dec), $[\alpha]_D^{24} = -31^\circ$ (MeOH). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 1521.

**17759 Praeroside IV**

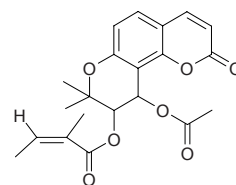
[117233-34-8] C₂₀H₂₄O₉ (408.41). mp 115~116.5°C, $[\alpha]_D^{24} = +4^\circ$ (MeOH). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 3356.

**17760 Praeroside V**

[117233-35-9] C₂₀H₂₄O₉ (408.41). Crystals, mp 130~131.5°C, $[\alpha]_D^{24} = 0^\circ$. **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 3356.

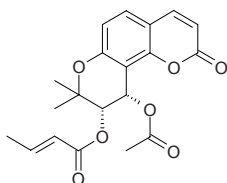
**17761 Praeruptorin A**

[73069-27-9] C₂₁H₂₂O₇ (386.41). **Pharm:** Used in treatment of acute arrhythmia. **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum* (root: content = 0.1%^[5501]). **Ref:** 658, 5501.

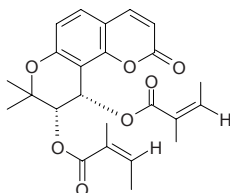


17762 Praeruptorin C

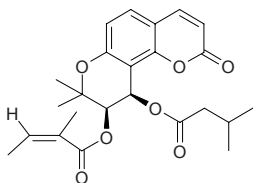
Pd-Ia C₂₀H₂₀O₇ (386.41). **Pharm:** Inhibits contraction of aorta strip *in vitro* (rbt, induced by Ca and K); inhibits contraction of blood vessel and cardiac muscle (*in vitro*); protects *in vitro* heart from damage during ischemic re-perfusion. **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum* (root: content scope of 7 origins = 0.040%~1.17%, mean content = 0.39%^[5508]). **Ref:** 9, 658, 5501, 5508.

**17763 Praeruptorin D**

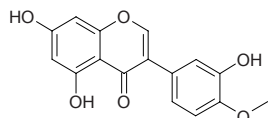
3'(S),4'(S)-Diangeloyloxy-3',4'-dihydroseselin; Pd-II [73069-28-0] C₂₄H₂₆O₇ (426.47). White needles (alcohol), mp 171~172°C, $[\alpha]_D^{24} = +34.6^\circ$ (*c* = 0.8, CHCl₃). **Pharm:** Antineoplastic (mus, *in vivo*, TPA-induced skin tumor; *in vitro* inhibits phosphorylated action of phospholipid, then inhibits cancer cell's growth and metabolism); platelet aggregation inhibitor (induced by PAF, IC₅₀ = 0.05mmol/L). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum* (root: mean content = 0.543%^[5508]), BIN HAI QIAN HU *Peucedanum japonicum*, GUANG XI QIAN HU *Peucedanum guangxiense*, SHUANG SE SUO ZI QIN *Pleurospermum govanianum* var. *bicolor*, TAI WAN QIAN HU *Peucedanum formosanum*. **Ref:** 557, 3296, 3297, 3298, 3299, 3300, 3301, 3357, 5508.

**17764 (+)-Praeruptorin E**

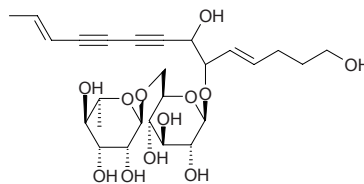
[78478-28-1] C₂₄H₂₈O₇ (428.46). White rhomboid crystals (absolute ethanol), mp 138~140°C, $[\alpha]_D = +36^\circ$ (*c* = 5.54, chloroform). **Pharm:** increases tolerance to anoxia (mus). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, XUAN NIU XIE HAO *Seseli tortuosum*. **Ref:** 658, 5501.

**17765 Pratensein**

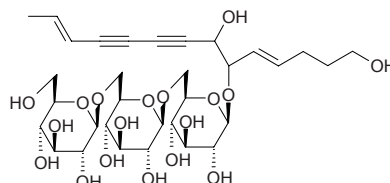
[2284-31-3] C₁₆H₁₂O₆ (300.27). mp 272~273°C. **Pharm:** Antihypercholesterolemic. **Source:** HUI HUI DOU *Cicer arietinum*, HONG CHE ZHOU CAO *Trifolium pratense*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, XUAN FU HUA *Inula britannica*. **Ref:** 6, 658, 660.

**17766 Pratalin A**

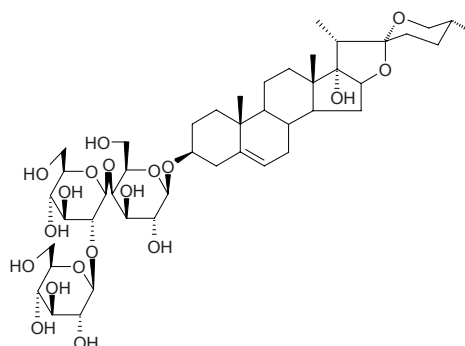
C₂₆H₃₈O₁₂ (542.59). **Source:** TONG CHUI YU DAI CAO *Pratia nummularia*. **Ref:** 3362.

**17767 Pratalin B**

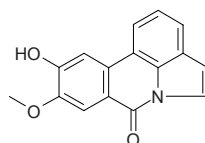
C₃₂H₄₈O₁₈ (720.73). **Source:** TONG CHUI YU DAI CAO *Pratia nummularia*. **Ref:** 3362.

**17768 Pratoside A**

[150205-55-3] C₄₅H₇₂O₁₉ (917.06). Powder (MeOH), $[\alpha]_D^{27} = -129.3^\circ$ (*c* = 0.75, MeOH). **Pharm:** Spermicidal (hmn, 1mg/mL, spermatoc activity = 43%, 2mg/mL, spermatoc activity = 0%). **Source:** KANG DING YU ZHU *Polygonatum prattii*. **Ref:** 3705, 1159.

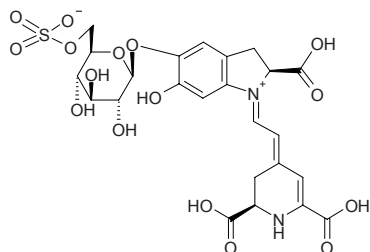
**17769 Pratorimine**

C₁₆H₁₁NO₃ (265.27). Pale brown needles (CH₃CN-H₂O), mp 224~226°C. **Pharm:** Cytotoxic (Meth-A cell, ED₅₀ = 4.1μg/mL, control Adriamycin, ED₅₀ < 0.09μg/mL; LLC cell, ED₅₀ > 10μg/mL, control Adriamycin, ED₅₀ = 0.1μg/mL). **Source:** RI BEN WEN SHU LAN *Crinum asiaticum* var. *japonicum* (bulb). **Ref:** 4125.

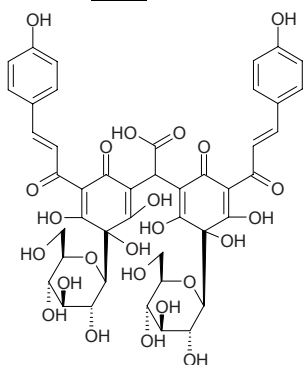


17770 Prebetanin

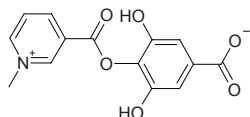
[13798-16-8] C₂₄H₂₆N₂O₁₆S (630.55). Source: TIAN CAI *Beta vulgaris*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 658.

**17771 Precarthamin**

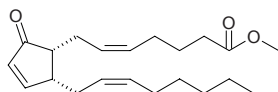
C₄₄H₄₄O₂₄ (956.83). Pharm: Yellow pigment; biosynthesis precursor of carthamin. Source: HONG HUA *Carthamus tinctorius*. Ref: 3303.

**17772 Precatorine**

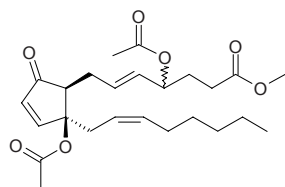
[36675-57-7] C₁₄H₁₁NO₆ (289.25). mp 218~220°C. Source: XIANG SI ZI *Abrus precatorius*. Ref: 6.

**17773 Preclavulone A methyl ester**

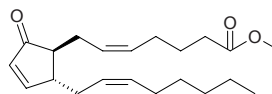
C₂₁H₃₂O₃ (332.49). Colorless viscous oil, [α]_D²⁵ = -13.9° (c = 0.05, THF), [α]_D²⁵ = -17.9° (c = 0.05, CHCl₃). Source: CHONG SHENG RUAN SHAN HU *Clavularia viridis*. Ref: 4367.

**17774 Preclavulone A methyl ester derivative CPB51-909-3**

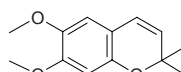
C₂₅H₃₆O₇ (448.56). Colorless viscous oil, [α]_D²⁵ = +22.8° (c = 0.08, CHCl₃). Source: CHONG SHENG RUAN SHAN HU *Clavularia viridis*. Ref: 4367.

**17775 Preclavulone A methyl ester 12-isomer**

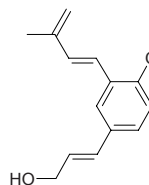
C₂₁H₃₂O₃ (332.49). Colorless viscous oil, [α]_D²⁵ = -49.8° (c = 0.08, THF), [α]_D²⁵ = -51.0° (c = 0.08, CHCl₃). Source: CHONG SHENG RUAN SHAN HU *Clavularia viridis*. Ref: 4367.

**17776 Precocene II**

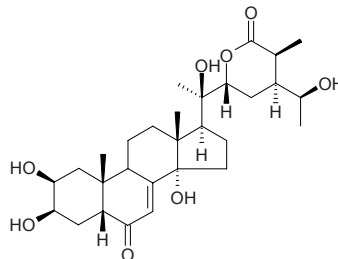
[644-06-4] C₁₃H₁₆O₃ (220.27). Pharm: Pesticide. Source: XIONG ER CAO *Ageratum houstonianum*, CHANG YE QIAN LI GUANG *Senecio longifolius*. Ref: 658.

**17777 Precolpuchol**

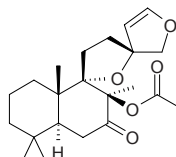
[194150-51-1] C₁₄H₁₆O₂ (216.28). Oil. Pharm: Antibacterial (*Staphylococcus aureus*, 0.5μg); antifungal (*Cladosporium* sp., strongly inhibition). Source: MEI LI BU KU *Coleonema pulchellum*. Ref: 3706.

**17778 Precyasterone**

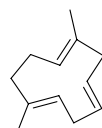
[27335-85-9] C₂₉H₄₄O₈ (520.67). Source: MA NIU XI *Cyathula capitata*. Ref: 6.

**17779 Pregaleopsin**

C₂₂H₃₂O₅ (376.50). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

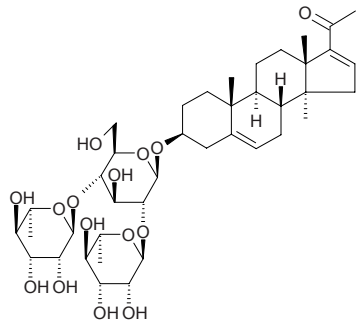
**17780 Pregeijerene B**

(E,E,E)-1,7-Dimethylcyclodeca-1,4,7-triene C₁₂H₁₈ (162.28). Oil. Source: ZHI LI CI BAI *Juniperus erectopatens*. Ref: 2066.

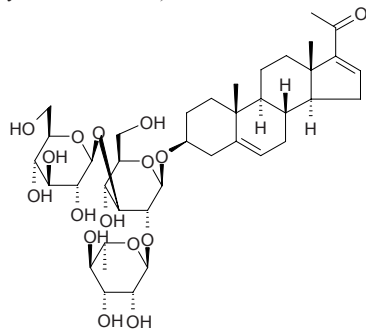


17781 Pregna-5,16-dien-3 β -ol-20-one 3-O- β -chacotrioside

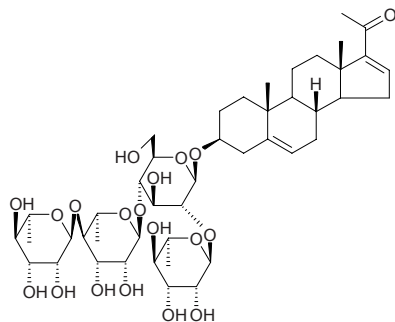
$C_{39}H_{60}O_{15}$ (768.90). mp 260–262°C (dec). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.0013%)^[4692], ZAO XIU *Paris polyphylla*. Ref: 6, 4692.

**17782 Pregnadienolone-3-O- β -gracillimatriose**

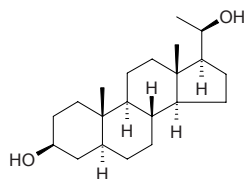
$C_{39}H_{60}O_{16}$ (784.90). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000072%). Ref: 4692.

**17783 Pregna-5,16-dien-3 β -ol-20-one-3 β -O- α -L-rhamnopyranosyl (1 \rightarrow 2)-[α -L-rhamnopyranosyl (1 \rightarrow 4)- α -L-rhamnopyranosyl (1 \rightarrow 4)]- β -D-glucopyranoside**

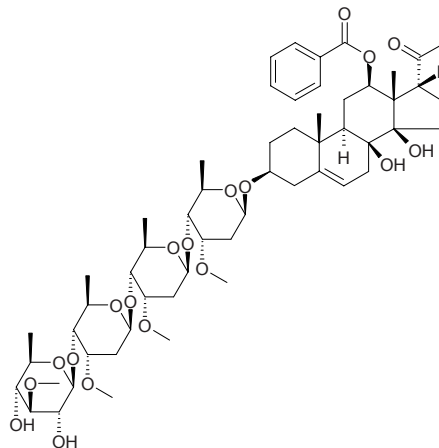
$C_{45}H_{70}O_{19}$ (915.05). Source: YUN NAN CHONG LOU *Paris polyphylla* var. *yunnanensis*. Ref: 2673.

**17784 5 α -Pregnane-3 β ,20 β -diol**

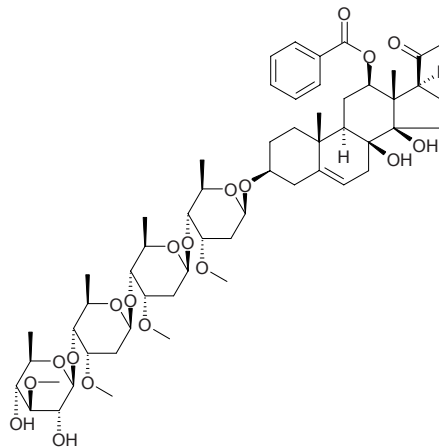
$C_{21}H_{36}O_2$ (320.52). Source: JIAN MA *Agave sisalana*. Ref: 6, 2983.

**17785 Pregnane glycoside AI**

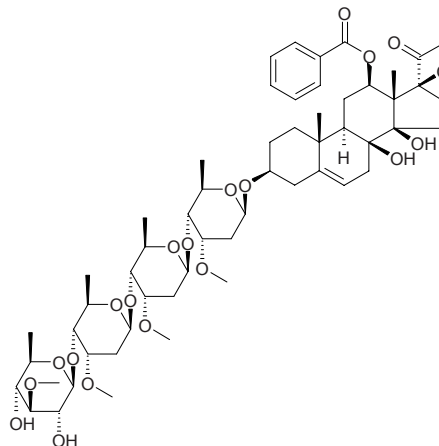
12-O-Benzoylneolon 3-O- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside
 $C_{56}H_{84}O_{19}$ (1061.28). Amorphous powder, $[\alpha]_D^{21} = -3.08^\circ$ ($c = 2.26$, MeOH). Source: *Araujia sericifera* (root). Ref: 4377.

**17786 Pregnane glycoside BI**

$C_{56}H_{84}O_{19}$ (1061.28). Amorphous powder, $[\alpha]_D^{24} = +37.6^\circ$ ($c = 1.58$, MeOH). Source: *Araujia sericifera* (root). Ref: 4377.

**17787 Pregnane glycoside CI**

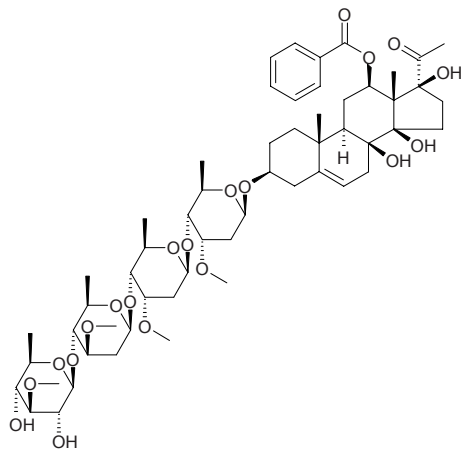
$C_{56}H_{84}O_{20}$ (1077.28). Amorphous powder, $[\alpha]_D^{21} = +11.9^\circ$ ($c = 2.2$, MeOH). Source: *Araujia sericifera* (root). Ref: 4377.



17788 Pregnane glycoside CII

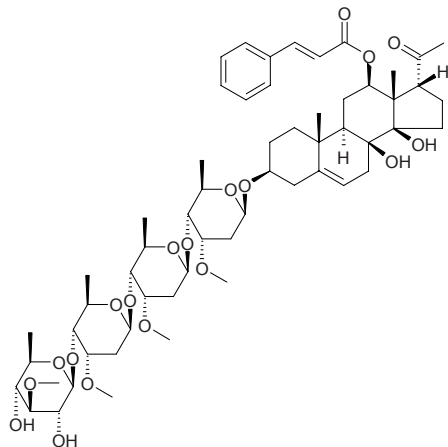
$C_{56}H_{84}O_{20}$ (1077.28). Amorphous powder, $[\alpha]_D^{24} = -0.66^\circ$ ($c = 0.38$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17789 Pregnane glycoside DI**

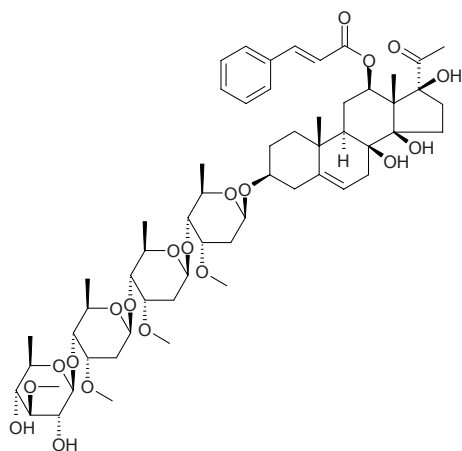
$C_{58}H_{86}O_{19}$ (1087.32). Amorphous powder, $[\alpha]_D^{23} = +22.9^\circ$ ($c = 1.52$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17790 Pregnane glycoside EI**

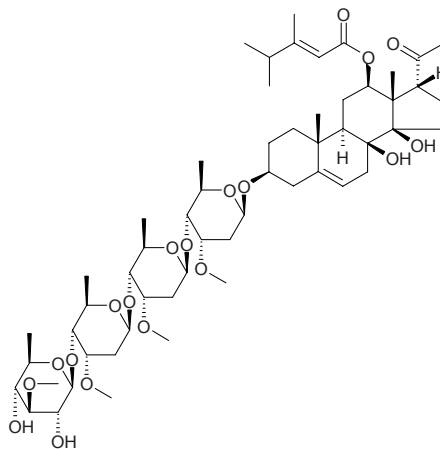
$C_{58}H_{86}O_{20}$ (1103.32). Amorphous powder, $[\alpha]_D^{22} = +38^\circ$ ($c = 0.78$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17791 Pregnane glycoside FI**

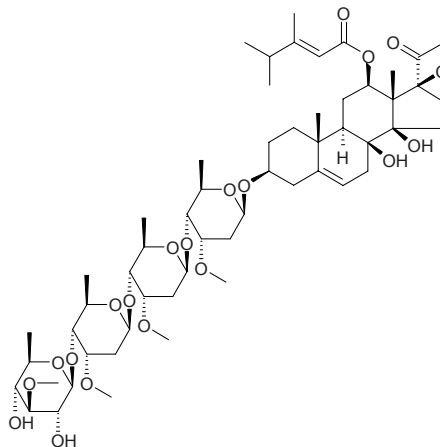
$C_{56}H_{90}O_{19}$ (1067.33). Amorphous powder, $[\alpha]_D^{23} = +2.8^\circ$ ($c = 0.98$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17792 Pregnane glycoside GI**

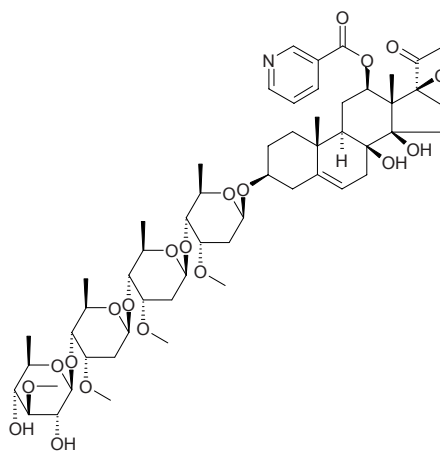
$C_{56}H_{90}O_{20}$ (1083.33). Amorphous powder, $[\alpha]_D^{23} = +19^\circ$ ($c = 0.81$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17793 Pregnane glycoside HI**

$C_{55}H_{83}NO_{20}$ (1078.27). Amorphous powder, $[\alpha]_D^{23} = +10^\circ$ ($c = 0.36$, MeOH).

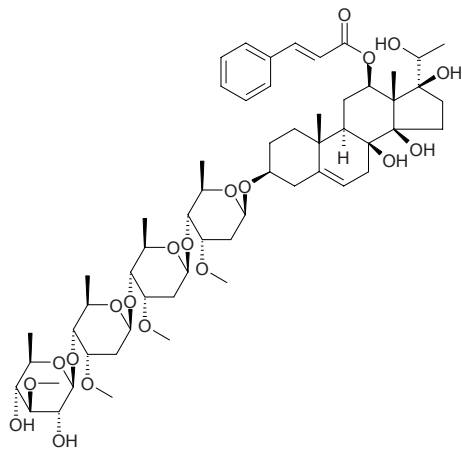
Source: *Araujia sericifera* (root). Ref: 4377.



17794 Pregnane glycoside NI

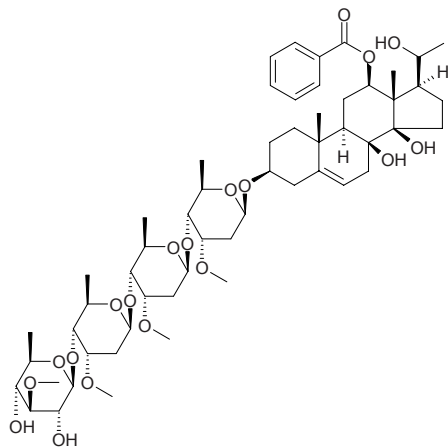
$C_{58}H_{88}O_{20}$ (1105.34). Amorphous powder, $[\alpha]_D^{24} = +34^\circ$ ($c = 0.27$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17795 Pregnane glycoside OI**

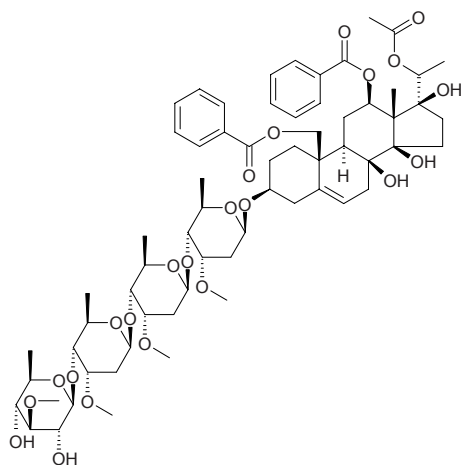
$C_{56}H_{86}O_{19}$ (1063.30). Amorphous powder, $[\alpha]_D^{22} = +28.1^\circ$ ($c = 1.67$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17796 Pregnane glycoside QI**

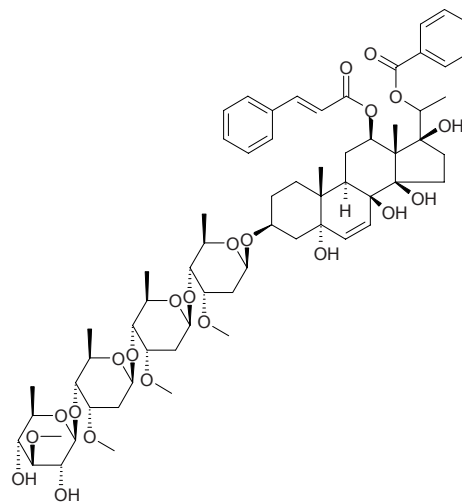
$C_{65}H_{92}O_{23}$ (1241.44). Amorphous powder, $[\alpha]_D^{23} = +59.5^\circ$ ($c = 1.36$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17797 Pregnane glycoside TI**

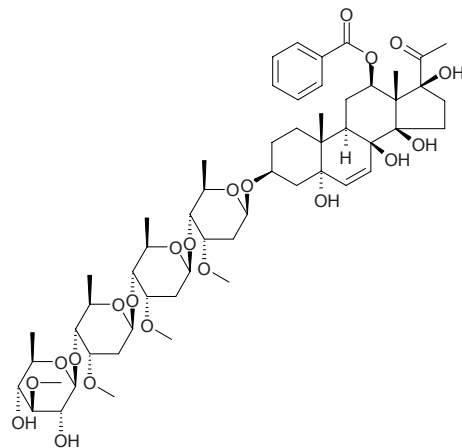
$C_{65}H_{92}O_{22}$ (1225.44). Amorphous powder, $[\alpha]_D^{22} = +141^\circ$ ($c = 1.67$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17798 Pregnane glycoside UI**

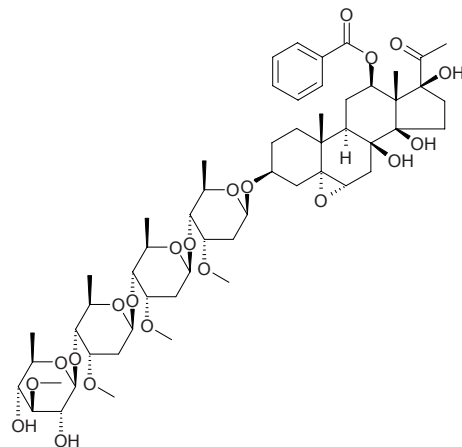
$C_{56}H_{84}O_{21}$ (1093.28). Amorphous powder, $[\alpha]_D^{22} = +19^\circ$ ($c = 0.72$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17799 Pregnane glycoside VI**

$C_{56}H_{84}O_{21}$ (1093.28). Amorphous powder, $[\alpha]_D^{24} = +1.8^\circ$ ($c = 0.56$, MeOH).

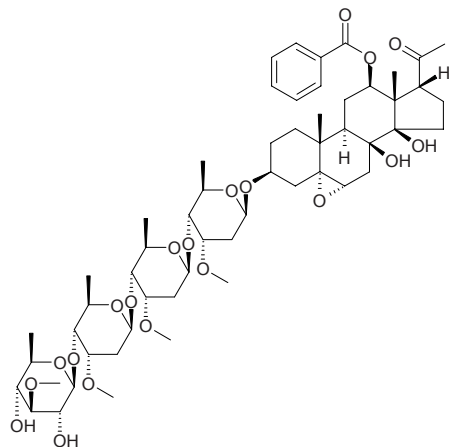
Source: *Araujia sericifera* (root). Ref: 4377.



17800 Pregnane glycoside WI

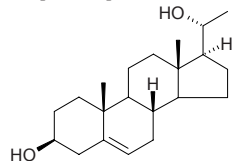
$C_{56}H_{84}O_{20}$ (1077.28). Amorphous powder, $[\alpha]_D^{24} = -13^\circ$ ($c = 0.51$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

**17801 5-Pregnene-3 β ,20 α -diol**

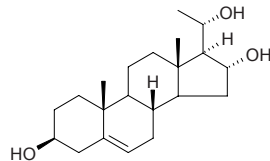
$C_{21}H_{34}O_2$ (318.50). mp 182°C, $[\alpha]_D = -55.5^\circ$. Source: XIANG JIA PI

Periploca sepium. Ref: 2498.

**17802 5-Pregnene-3 β ,16 α ,20 α -triol**

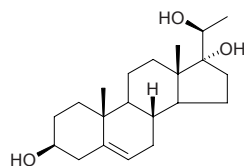
$C_{22}H_{36}O_3$ (348.53). mp 251°C, $[\alpha]_D = -65.0^\circ$. Source: XIANG JIA PI

Periploca sepium. Ref: 2498.

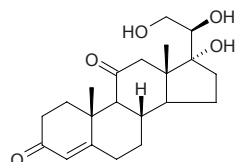
**17803 5-Pregnene-3 β ,17 α ,20 α -triol**

$C_{21}H_{34}O_3$ (334.50). mp 230°C, $[\alpha]_D = -69.2^\circ$. Source: XIANG JIA PI

Periploca sepium. Ref: 2498.

**17804 4-Pregnene-17 α ,20 β ,21-triol-3,11-dione**

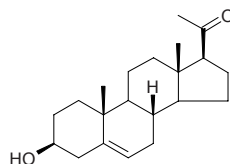
$C_{21}H_{30}O_5$ (362.47). Source: ZI HE CHE *Homo sapiens*. Ref: 660.

**17805 Pregnenolone**

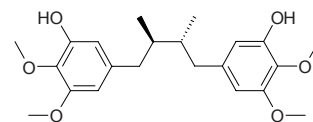
$C_{21}H_{32}O_2$ (316.49). Source: BAI XIAN PI *Dictamnus dasycarpus*, SHI LIU

YE *Punica granatum*, XIN JIANG GAO BEN *Conioselinum vaginatum*,

XING AN CHAI HU *Bupleurum sibiricum*. Ref: 3304, 3305, 3306, 3307.

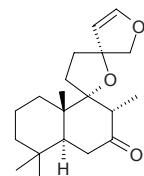
**17806 Pregomisin**

$C_{22}H_{30}O_6$ (390.48). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**17807 Prehispanolone**

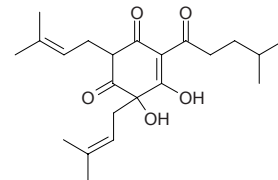
[132922-55-5] $C_{20}H_{30}O_3$ (318.46). Source: YI MU CAO *Leonurus*

heterophyllus [Syn. *Leonurus artemisia*]. Ref: 2.

**17808 Prehumulone**

$C_{22}H_{32}O_5$ (376.50). Oil, $[\alpha]_D^{23} = -172^\circ$ ($c = 0.12$, 2,2,3-trimethylpentane).

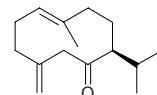
Source: PI JIU HUA *Humulus lupulus*. Ref: 3308.

**17809 Preisocalamendiol**

1(10),4(15)-Germacradien-6-one [25645-19-6] $C_{15}H_{24}O$ (220.36). Oil. Source:

BAI CHANG *Acorus calamus*, KUAN YE KUO BAO JU *Baccharis latifolia*,

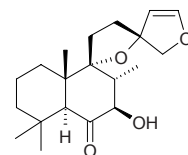
TOU HUA DU JUAN *Rhododendron capitatum*. Ref: 3309, 3310, 3311, 3312.

**17810 Preleoheterin**

9,13:15,16-Diepoxy-7-hydroxy-14-labden-6-one [151178-05-1] $C_{20}H_{30}O_4$

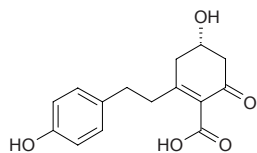
(334.46). Crystals; syrup, $[\alpha]_D^{25} = -15.99^\circ$ ($c = 0.5$, EtOH). Source: YI MU

CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*]. Ref: 1543, 2499.

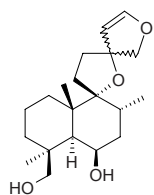


17811 Prelunularic acid

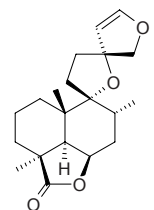
[85926-21-2] C₁₅H₁₆O₅ (276.29). Oil. Source: DI SUO LUO *Marchantia polymorpha*, SHE TAI *Conocephalum conicum*. Ref: 3313, 3314, 3315.

**17812 Premarrubenol**

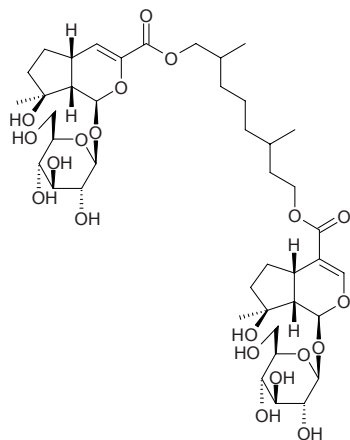
C₂₀H₃₂O₄ (336.48). Source: BAI HUA XIA ZHI CAO *Marrubium supinum* [Syn. *Lagopsis supina*], OU XIA ZHI CAO *Marrubium vulgare*. Ref: 1521, 5355.

**17813 Premarrubiin**

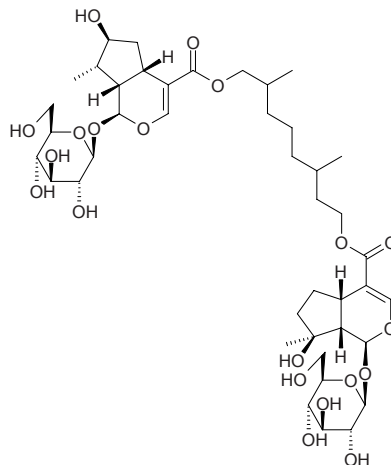
[72059-02-2] C₂₀H₂₈O₄ (332.44). Pharm: Astringent; antitussive (dispels phlegm). Source: OU XIA ZHI CAO *Marrubium vulgare*. Ref: 658, 5355.

**17814 Premnaodoroside A**

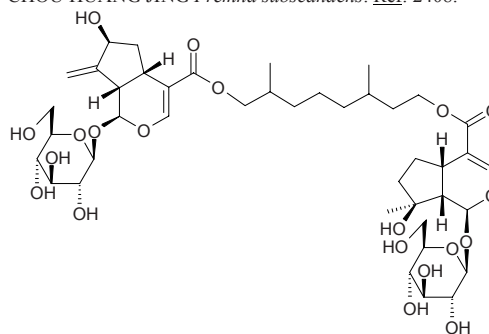
C₄₂H₆₆O₂₀ (890.98). [α]_D²² = -96.9° (c = 2.07, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17815 Premnaodoroside B**

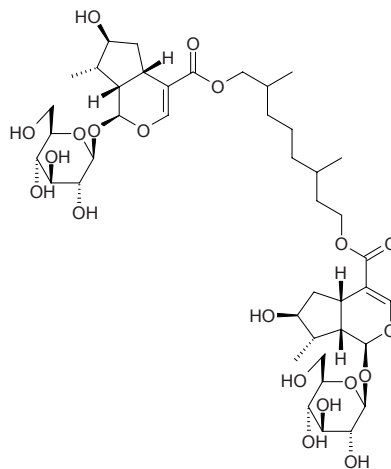
C₄₂H₆₆O₂₀ (890.98). [α]_D²² = -96.9° (c = 1.14, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17816 Premnaodoroside C**

C₄₂H₆₄O₂₀ (888.97). [α]_D²² = -85.7° (c = 1.59, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

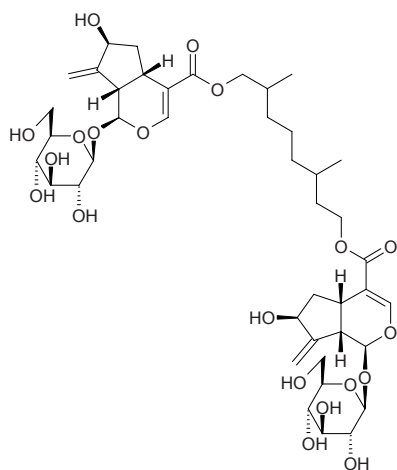
**17817 Premnaodoroside D**

[260803-62-1] C₄₂H₆₆O₂₀ (890.98). Amorphous powder, [α]_D²⁵ = -89.4° (c = 1.04, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

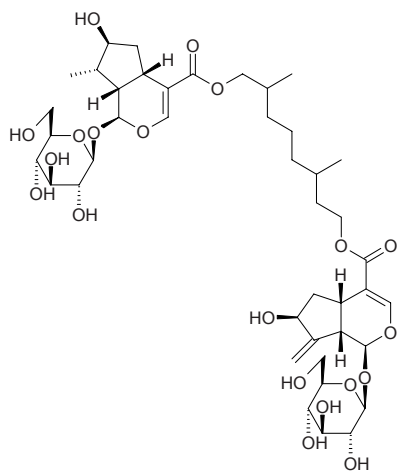


17818 Premnaodoroside E

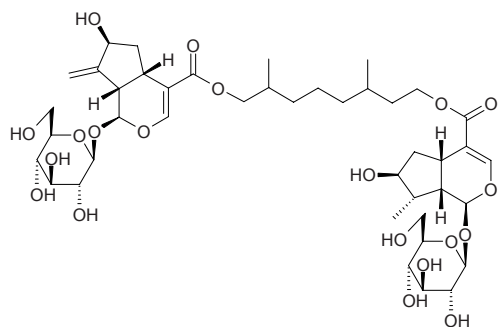
[260803-63-2] C₄₂H₆₂O₂₀ (886.95). Amorphous powder, $[\alpha]_D^{25} = -28.9^\circ$ ($c = 0.28$, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17819 Premnaodoroside F₁**

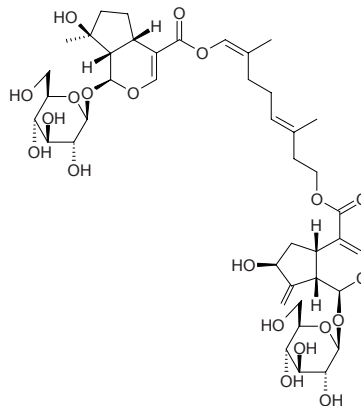
C₄₂H₆₄O₂₀ (888.97). Mixture with Premnaodoroside F₂: amorphous powder, $[\alpha]_D^{25} = -69.1^\circ$ ($c = 1.88$, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17820 Premnaodoroside F₂**

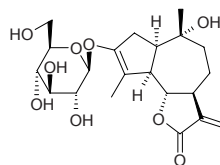
C₄₂H₆₄O₂₀ (888.97). Mixture with Premnaodoroside F₁: amorphous powder, $[\alpha]_D^{25} = -69.1^\circ$ ($c = 1.88$, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17821 Premnaodoroside G**

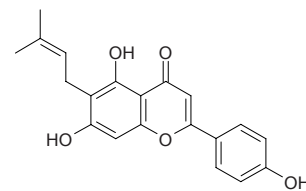
C₄₂H₆₀O₂₀ (884.93). Amorphous powder, $[\alpha]_D^{25} = -46.6^\circ$ ($c = 0.34$, MeOH). Source: PAN YUAN CHOU HUANG JING *Premna subscandens*. Ref: 2408.

**17822 Prenantheside A**

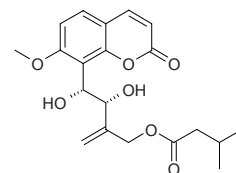
[112606-68-5] C₂₁H₃₀O₉ (426.47). Amorphous powder, $[\alpha]_D^{25} = +10.3^\circ$ ($c = 1.12$, pyridine). Pharm: Cytotoxic (L-5178Y, ID₅₀ = 4.0 μg/mL). Source: QI YE PAN GUO JU *Prenanthes acerifolia*. Ref: 3707, 1738.

**17823 6-Prenylapigenin**

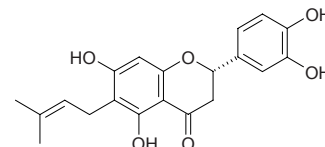
C₂₀H₁₈O₅ (338.36). Source: HUANG YAN MU *Chlorophora tinctoria*, *Dorstenia kameruniana*, *Erythrina vogelii*. Ref: 1521, 4421.

**17824 8-Prenylated coumarin microfalcatin isovalerate**

Micromarin B [260368-19-2] C₂₀H₂₄O₇ (376.41). Crystals (*n*-hexane–acetone), mp 100–105°C, $[\alpha]_D^{24} = 0^\circ$ ($c = 1.0$, CHCl₃). Source: XIAO GAN *Micromelum falcatum*. Ref: 2421.

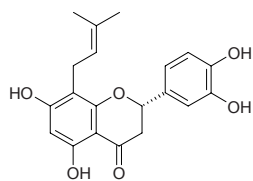
**17825 6-Prenylated eriodictyol**

C₂₀H₂₀O₆ (356.38). Source: *Glycyrrhiza* sp. Ref: 2431.

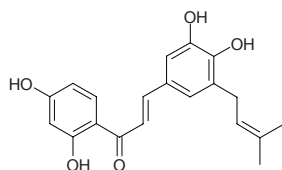


17826 8-Prenylated eriodictyol

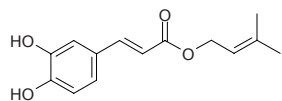
$C_{20}H_{20}O_6$ (356.38). **Source:** *Glycyrrhiza* sp. **Ref:** 2431.

**17827 5-Prenylbutein**

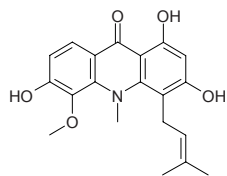
2',3,4,4'-Tetrahydroxy-5-prenylchalcone $C_{20}H_{20}O_5$ (340.38). Amorphous powder. **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (10.3 \pm 1.3) \mu\text{g/mL}$; control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (11.2 \pm 1.9) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.003) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex). **Ref:** 3879.

**17828 Prenyl caffeate**

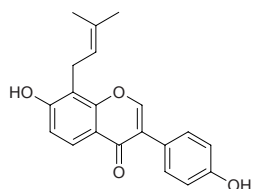
$C_{14}H_{16}O_4$ (248.28). **Pharm:** Allergenic. **Source:** *Populus* sp. **Ref:** 658.

**17829 Prenylcitpressine**

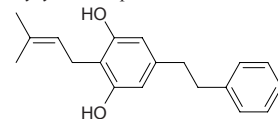
[81525-60-2] $C_{20}H_{21}NO_5$ (355.39). Yellow slice substance (Et_2O), mp 160–162°C. **Pharm:** Anti-inflammatory; antineoplastic (EBV-EA induced by TPA, InRt = 100% with molecular ratio of Euglobal-III/TPA 1000). **Source:** BAI YOU *Citrus grandis* f. *hakunikuju*, BIAN PING JU *Citrus depressa*, WEN DAN YOU *Citrus grandis* f. *buntan*, ZHOU CHANG JU *Citrus funadoko*, ZHU LUAN *Citrus decumana*. **Ref:** 3708, 3709, 3710, 3711, 3712, 3713.

**17830 8-Prenyldaidzein**

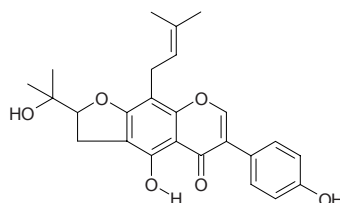
$C_{20}H_{18}O_4$ (322.36). **Pharm:** Cytotoxic (KB, $IC_{50} > 75 \mu\text{mol/L}$, control Helenalin, $IC_{50} = (0.64 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (6.0 \pm 0.5) \mu\text{mol/L}$; Mono-Mac-6, $IC_{50} > 75 \mu\text{mol/L}$, Helenalin, $IC_{50} = (3.1 \pm 0.3) \mu\text{mol/L}$; Jurkat-T, $IC_{50} > 75 \mu\text{mol/L}$, Helenalin, $IC_{50} = (1.14 \pm 0.08) \mu\text{mol/L}$, Melphalan, $IC_{50} = (9.1 \pm 0.8) \mu\text{mol/L}$). **Source:** *Bituminaria morisiana* (leaf). **Ref:** 5077.

**17831 4-Prenyldihdropinosylvin**

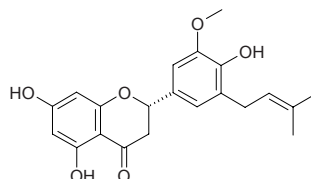
$C_{19}H_{22}O_2$ (282.39). **Pharm:** Antimicrobial. **Source:** MEI ZHOU GAN CAO *Glycyrrhiza lepidota*. **Ref:** 658.

**17832 8-Prenylerythrinin**

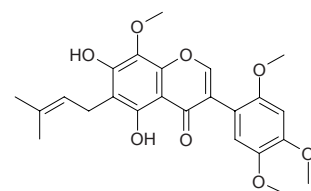
$C_{25}H_{26}O_6$ (422.48). **Pharm:** Cytotoxic (KB, $EC_{50} = 13 \mu\text{g/mL}$)^[5220]. **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex). **Ref:** 5220.

**17833 5'-Prenylhomoeiodictyol**

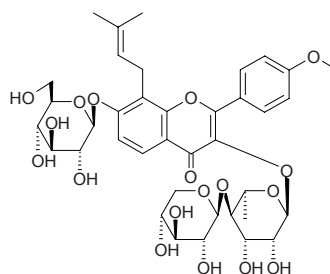
$C_{21}H_{22}O_6$ (370.41). **Pharm:** Antifungal (*Cladosporium cucumerinum*). **Source:** BO SHI CI TONG *Erythrina berteroaana*. **Ref:** 658.

**17834 6-Prenylisocaviunin**

[132923-42-3] $C_{24}H_{26}O_8$ (442.47). Creamy amorphous powder, mp 182–183°C. **Pharm:** Estrogenic activity (rat). **Source:** CUI QUE YE DUAN GUAN CAO *Sopubia delphinifolia*. **Ref:** 3641.

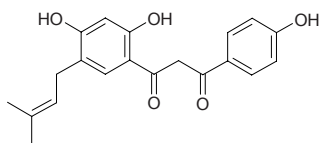
**17835 8-Prenylkaempferol-4'-methoxy-3-[xylosyl (1→4) rhamnoside]-7-glucoside**

$C_{38}H_{48}O_{18}$ (792.80). **Source:** WU SHAN YIN YANG HUO *Epimedium wushanense*. **Ref:** 3316.

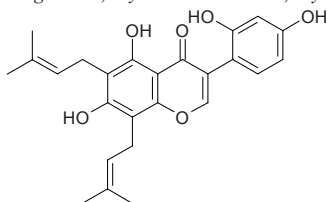


17836 5'-Prenyllicodione

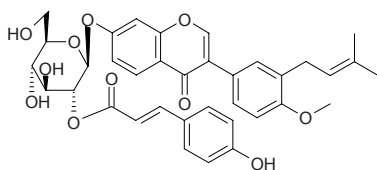
[107390-47-6] C₂₀H₂₀O₅ (340.38). Yellow needles, mp 130~135°C. Source: JI GAN CAO *Glycyrrhiza echinata* (cultured cell), ZHANG GUO GAN CAO *Glycyrrhiza inflata*. Ref: 3317, 3318.

**17837 8-Prenyluteone**

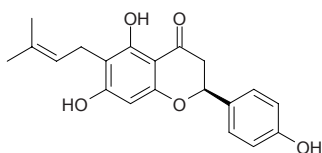
C₂₅H₂₆O₆ (422.48). Source: SAI NEI JIA ER CI TONG *Erythrina senegalensis*, *Erythrina eriotriocha*, *Erythrina vogelii*. Ref: 1521, 4421.

**17838 3'-Prenyl-4'-methoxy-isoflavone-7-O'-β-D-(2''-O-p-coumaroyl) glycopyranoside**

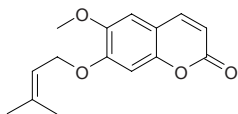
[126654-66-8] C₃₆H₃₆O₁₁ (644.68). Colorless microcrystals, mp 158~160°C. Pharm: Estrogenic activity. Source: CUI QUE YE DUAN GUAN CAO *Sopubia delphinifolia*. Ref: 3642.

**17839 6-Prenylnaringenin**

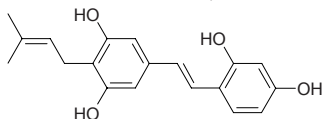
C₂₀H₂₀O₅ (340.38). Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**17840 7-Prenyloxy-6-methoxycoumarin**

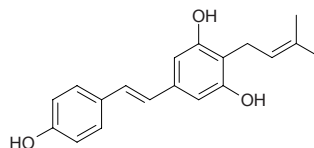
C₁₅H₁₆O₄ (260.29). mp 80~82°C (Me₂CO). Source: SHA DI YUAN ZHI *Polygala sabulosa*. Ref: 5110.

**17841 4'-Prenyloxyresveratrol**

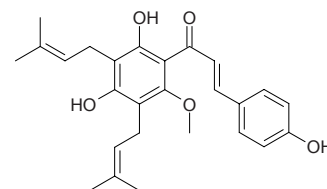
trans-4-Isopentenyl-3,5,2',4'-tetrahydroxystilbene C₁₉H₂₀O₄ (312.37). Pharm: Antifungal^[658]; antimalarial (*Plasmodium falciparum*, EC₅₀ = 8.2 μg/mL, control Chloroquine diphosphate, EC₅₀ = 0.16 μg/mL, EC₅₀ = 3.1 μmol/L)^[3963]. Source: QUAN YUAN GUI MU *Artocarpus integra* (aerial parts), SANG ZHI *Morus alba*. Ref: 658, 3963.

**17842 4-Prenylresveratrol**

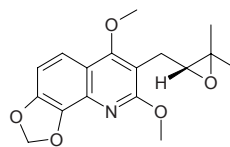
C₁₉H₂₀O₃ (296.37). Pharm: Antifungal (*Cladosporium cucumerinum*). Source: LUO HUA SHENG *Arachis hypogaea*. Ref: 658.

**17843 5'-Prenylxanthohumol**

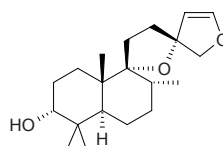
C₂₆H₃₀O₅ (422.53). Source: PI JIU HUA *Humulus lupulus* (strobile). Ref: 4789.

**17844 Preorixine**

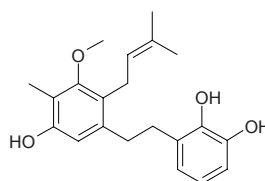
C₁₇H₁₉NO₅ (317.34). Pharm: NO production inhibitor inactive (RAW264.7 cells, LPS/IFN-γ-induced, 30 μmol/L; weak cytotoxic to RAW264.7 cells). Source: CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.027%dw). Ref: 4774.

**17845 Preotostegindiol**

9(13),15(16)-Diepoxy-3α-hydroxy-16-dihydro-14-ene C₂₀H₃₂O₃ (320.48). White crystals. Source: QUAN YUAN YE AO TUO SI TE CAO *Otostegia integrifolia* (leaf). Ref: 3823.

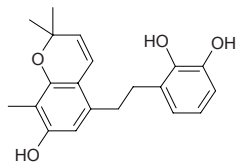
**17846 Preracemosol A**

C₂₁H₂₆O₄ (342.44). Brown viscous oil. Pharm: Antimalarial (*Plasmodium falciparum*, EC₅₀ = 18.0 μg/mL, control Chloroquine diphosphate, EC₅₀ = 0.16 μg/mL); cytotoxic inactive (KB, control Ellipticine, EC₅₀ = 0.3 μg/mL; BC, control Ellipticine, EC₅₀ = 0.3 μg/mL). Source: MA LA BA YANG TI JIA *Bauhinia malabarica* (root). Ref: 5092.

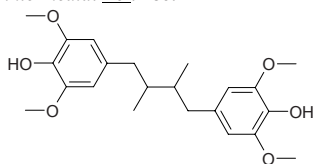


17847 Preracemosol B

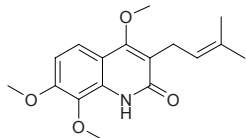
$C_{20}H_{22}O_4$ (326.40). Brown viscous oil. **Pharm:** Antimalarial (*Plasmodium falciparum*, EC_{50} = 3.0 μ g/mL, control Chloroquine diphosphate, EC_{50} = 0.16 μ g/mL); cytotoxic inactive (KB, control Ellipticine, EC_{50} = 0.3 μ g/mL; BC, control Ellipticine, EC_{50} = 0.3 μ g/mL). **Source:** MA LA BA YANG TI JIA *Bauhinia malabarica* (root). **Ref:** 5092.

**17848 Preschisanthrin**

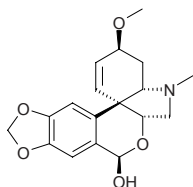
$C_{22}H_{30}O_6$ (390.48). White acicular crystals, mp 119~120°C, $[\alpha]_D^{19} = 0^\circ$ (MeOH). **Source:** ZHONG JIAN WU WEI ZI *Schisandra propinqua* var. *intermedia*. **Ref:** 486.

**17849 Preskimmianine**

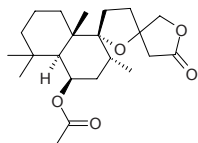
[38695-41-9] $C_{17}H_{21}NO_4$ (303.36). mp 151~152°C. **Source:** BAI SE BAI XIAN *Dictamnus albus*, BAI XIAN PI *Dictamnus dasycarpus*, CHOU SHAN YANG *Orixa japonica*. **Ref:** 660, 3319.

**17850 Pretazettine**

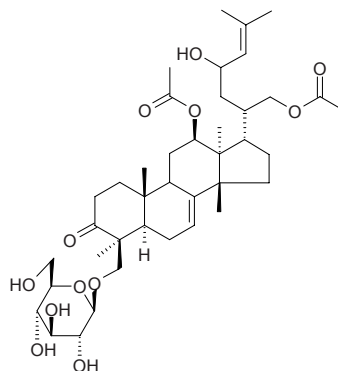
Isotazettine [17322-84-8] $C_{18}H_{21}NO_5$ (331.37). mp 234~236°C. **Pharm:** Antineoplastic (HeLa, leukemia caused by Rauscher leukemia virus, inhibits biosynthesis of protein in eukaryotic cells). **Source:** DUO HUA SHUI XIAN *Narcissus tazetta*, GAN FENG CAO *Zephyranthes candida*, QUAN NENG HUA *Pancreatium biflorum*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*. **Ref:** 5, 658.

**17851 Previtexilactone**

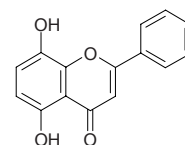
$C_{22}H_{34}O_5$ (378.51). Colorless prisms (hexane- $CHCl_3$), mp 224~225°C, mp 214~215°C, $[\alpha]_D = -20.2^\circ$ ($c = 0.85$, $CHCl_3$). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC > 245 μ mol/L)^[2550]. **Source:** MAN JING ZI *Vitex trifolia*. **Ref:** 2550.

**17852 Prieurianoside**

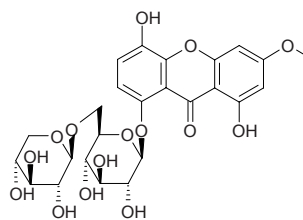
12 β ,21-Diacetoxy-29- β -D-glucopyranosyloxy-23 ζ -hydroxytirucalla-7,24-dien-3-one $C_{40}H_{62}O_{12}$ (734.93). Microcrystals, mp 113~115°C, $[\alpha]_D^{20} = -73.8^\circ$ (MeOH). **Pharm:** Cytotoxic inactive (KB, EC_{50} > 10 μ g/mL). **Source:** *Trichilia prieuriana* (leaf). **Ref:** 3994.

**17853 Primetin**

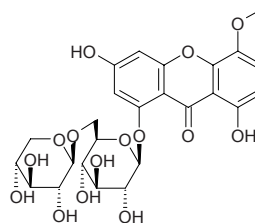
[548-58-3] $C_{15}H_{10}O_4$ (254.25). **Pharm:** Allergenic. **Source:** CHANG BAI SHAN BAO CHUN *Primula modesta*, JIA NA DA BAO CHUN *Primula mistassinica*. **Ref:** 658.

**17854 8-O-Primeverosylbellidifolin**

$C_{25}H_{28}O_{15}$ (568.49). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 2528.

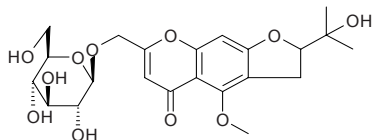
**17855 1-O-Primeverosyl-3,8-dihydroxy-5-methoxyxanthone**

$C_{25}H_{28}O_{15}$ (568.49). Yellow crystals, mp 207~209°C, $[\alpha]_D^{20} = -68.75^\circ$ ($c = 0.08$, DMSO). **Source:** XI DIAN ZHANG YA CAI *Swertia punctata*. **Ref:** 2155.

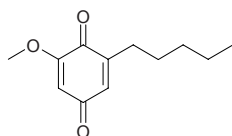


17856 Prim-O-glucosylcimifugin

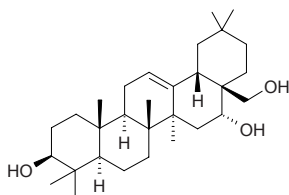
$C_{22}H_{28}O_{11}$ (468.42). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*]. Ref: 2.

**17857 Primin**

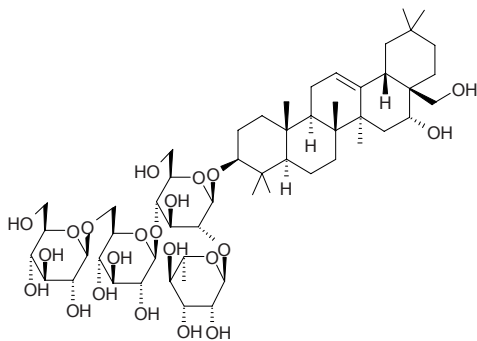
[15121-94-5] $C_{12}H_{16}O_3$ (208.26). Pharm: Insect antifeedant; irritant (to skin); molluscicide (toxic to shellfish). Source: E BAO CHUN *Primula obconica*, GAO BAO CHUN *Primula elatior*, *Miconia* sp. Ref: 658.

**17858 Primulagenin A**

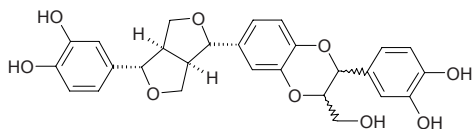
[465-95-2] $C_{30}H_{50}O_3$ (458.73). mp 249.5~250.0°C. Source: TIE ZI *Myrsine africana*, ZHEN ZHU CAI *Lysimachia clethroides*. Ref: 6.

**17859 Primulasaponin**

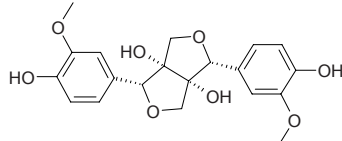
$C_{54}H_{90}O_{22}$ (1091.31). Pharm: Antibacterial; antineoplastic. Source: GAO BAO CHUN *Primula elatior*. Ref: 658.

**17860 Princepin**

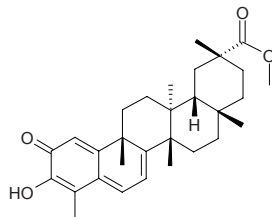
rel-((7 α ,7 α ,8 α ,8 α ,7 α ,8 β)-4',7'':7,9':7',9'-Triepoxy-3',8''-oxy-8,8'-sesquieolignan-3,3'',4,4'',9''-pentaol and *rel*-((7 α ,7 α ,8 α ,8 α ,7 β ,8 α)-4',7'':7,9':7',9'-Triepoxy-3',8''-oxy-8,8'-sesquieolignan-3,3'',4,4'',9''-pentaol) $C_{27}H_{26}O_9$ (494.50). Colorless amorphous solid. Source: BA XI QIAO AN MU *Joannesia princeps* (seed). Ref: 3369.

**17861 Prinsepiol**

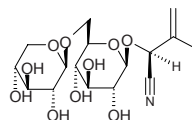
$C_{20}H_{22}O_8$ (390.39). Pharm: Antitubercular (*Mycobacterium tuberculosis*, MIC > 128 μ g/mL, cytotoxic, Vero cells, IC₅₀ = 13.0 μ g/mL, positive control Rifampin, MIC = 0.03 μ g/mL, IC₅₀ = 98.3 μ g/mL, SI = 3300). Source: SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). Ref: 4986.

**17862 Pristimerin**

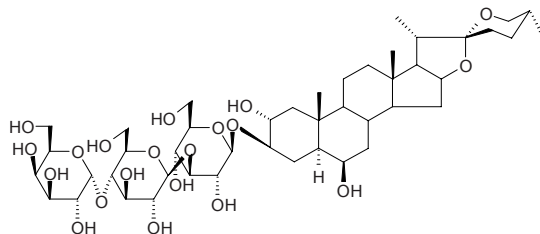
[1258-84-0] $C_{30}H_{40}O_4$ (464.65). Orange crystals (methanol), mp 214~217°C. Pharm: Antineoplastic; cytotoxic (KB, IC₅₀ = (0.60±0.01) μ mol/L, control Podophyllotoxin, IC₅₀ = 0.014 μ mol/L)^[3969]; cytotoxic (HeLa, ID₅₀ = 0.6 μ g/mL); antiamebic (used in treatment of dysentery); antibacterial (*Staphylococcus aureus*, *Diplococcus pneumoniae*, *Streptococcus pyogenes* and *Streptococcus varians*, 5~8 μ g/mL); antibacterial (*Bacillus cereus*, MIC = 8.62 μ mol/L, control Chloramphenicol, MIC = 6.19 μ mol/L; *Staphylococcus epidermidis*, MIC = 0.54 μ mol/L, Chloramphenicol, MIC = 12.38 μ mol/L; *Micrococcus luteus*, MIC = 8.62 μ mol/L, Chloramphenicol, MIC = 6.19 μ mol/L)^[3969]; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated IL-1 β production on hmn monocytes, mean IC₅₀ = 56 nmol/L)^[4416]; anti-inflammatory (NF- κ B pathway)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]. Source: BIAN SHUO TENG *Pristimera indica*, GAO MEI YING BAN *Crossopetalum gaumeri* (root), JIA NA LI MEI DENG MU *Maytenus canariensis*, QIAO CHA *Catha edulis*, *Prinostemma aspera*. Ref: 5, 661, 3969, 4416, 4415.

**17863 Proacaciberin**

[79197-21-0] $C_{16}H_{25}NO_{10}$ (391.38). Pharm: Toxin. Source: XI BO JIN HE HUAN *Acacia sieberiana*. Ref: 658.

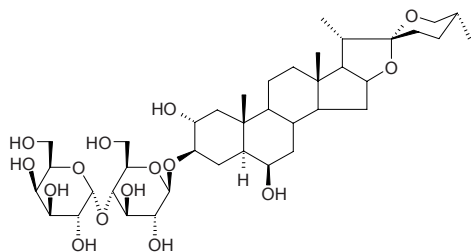
**17864 Proampeloside Bf₁**

$C_{45}H_{74}O_{20}$ (935.08). Pharm: Antifungal (*Candida albicans*). Source: DA TOU SUAN *Allium ampeloprasum*. Ref: 2165.

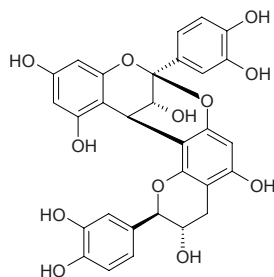


17865 Proampelosiide Bf₂

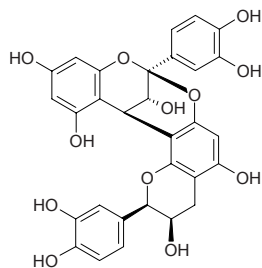
C₃₉H₆₄O₁₅ (772.94). **Pharm:** Antifungal (*Candida albicans*). **Source:** DA TOU SUAN *Allium ampeloprasum*. **Ref:** 2165.

**17866 Proanthocyanidin A₁**

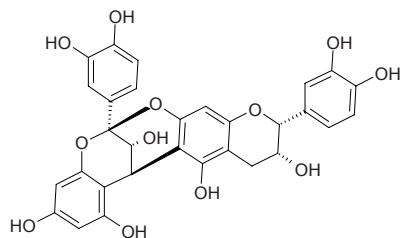
C₃₀H₂₄O₁₂ (576.52). Colorless needles (H₂O), mp 280°C (dec), [α]_D²² = +63.87° (c = 1.12, acetone). **Pharm:** Hyaluronidase inhibitor^[2284]. **Source:** LUO HUA SHENG *Arachis hypogaea*, DAO NIAN ZI *Garcinia mangostana* (fruit hull). **Ref:** 2284,3066.

**17867 Proanthocyanidin A₂**

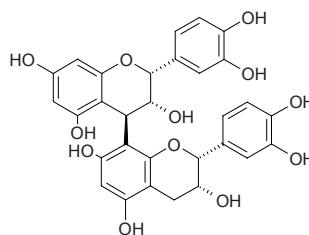
[41743-41-3] C₃₀H₂₄O₁₂ (576.52). Colorless needles (H₂O), mp 273°C (dec), [α]_D = +55.63° (c = 1.08, acetone). **Pharm:** Hyaluronidase inhibitor; tanning agent. **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], LUO HUA SHENG *Arachis hypogaea*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, SU DAN KE LE GUO *Cola acuminata*, YUE JU YE *Vaccinium vitis-idaea*. **Ref:** 658, 2284, 3066.

**17868 Proanthocyanidin A₆**

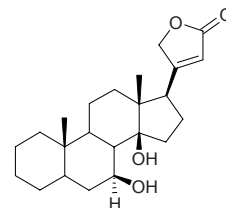
C₃₀H₂₄O₁₂ (576.52). Pale yellow amorphous powder, [α]_D²¹ = +17.3° (c = 1.68, MeOH). **Source:** CHANG JIE ZHU *Parameria laevigata* (bark). **Ref:** 3523.

**17869 Proanthocyanidin B₂**

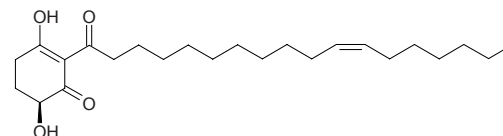
Procyanidin B₂ [29106-49-8] C₃₀H₂₆O₁₂ (578.53). Whitish amorphous powder, [α]_D = +34.1° (c = 1.0, acetone), [α]_D = +26° (H₂O). **Pharm:** Anticomplement activity (IC₅₀ = 55.7μg/mL); antihypertensive (inhibits sympathetic nerve and relaxes blood vessels directly); inhibits promotor of cancer (mus skin cancer induced by TPA, 10μmol/L); protein kinase C inhibitor (rat cerebrum, IC₅₀ = 1μmol/L); reverse transcriptase inhibitor; antioxidant (DPPH scavenger, IC₅₀ = (0.96±0.09)μmol/L; control EGG, IC₅₀ = (1.13±0.08)μmol/L)^[3848]; inhibits oxidation of LDL. **Source:** BING LANG *Areca catechu*, CHANG JI HUANG *Rheum* sp.^[4893], DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], DUAN MAO JIN XIAN CAO GEN *Antenoron neofiliforme*, DUN YE GUI PI *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], HAI ZHOU GU SUI BU *Davallia mariesii*, LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*], LUO HUA SHENG *Arachis hypogaea* (seed), MAO HANG ZI SHAO *Campylotropis hirtella*, PO LUO MEN ZAO JIA *Cassia fistula*, PU⁽²⁾ TAO *Vitis vinifera*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHU LIANG *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], ZHANG SHU PI *Cinnamomum camphora*, *Aesculus* spp., *Cotoneaster* spp., *Crataegus* spp., *Malus* spp., occurs in many plants. **Ref:** 660, 900, 1521, 2604, 2871, 2893, 2908, 2963, 2976, 2977, 2982, 3066, 3848, 4893.

**17870 Proceragenin**

[144334-40-7] C₂₃H₃₄O₄ (374.53). Fine needles (MeOH), mp 254–255°C, [α]_D = +6° (c = 1, alcohol). **Pharm:** Antibacterial (gram-positive and gram-negative bacteria). **Source:** CHANG NIU JIAO GUA *Calotropis procera*. **Ref:** 3643.

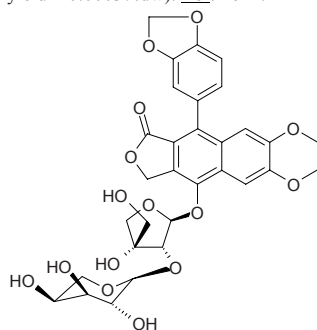
**17871 Proctorione C**

C₂₄H₄₀O₄ (392.58). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell line, 50μmol/L, cell growth InRt = 0%, IC₅₀ = 8.08μg/mL; NUGC-3 cell line, 50μmol/L, cell growth InRt = 0%, IC₅₀ = 10.3μg/mL)^[3401]. **Source:** *Peperomia sui*. **Ref:** 3401.

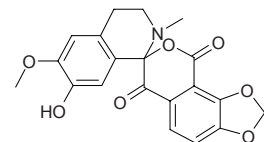


17872 Procumbenoside A

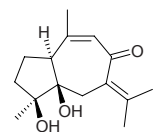
4-*O*- α -*L*-Arabinopyranosyl-(1" \rightarrow 2")- β -*D*-apiofuranosyldiphyllin C₃₁H₃₂O₁₅ (644.59). Colorless powder (MeOH), [α]_D²⁵ = -16° (*c* = 0.10, MeOH). **Pharm:** Cytotoxic (*in vitro*, 212, ED₅₀ = 3.1 μ g/mL, control Cisplatin, ED₅₀ = 1.3 μ g/mL; CaSKi, not determined, control Actinomycin D, ED₅₀ = 0.0019 μ g/mL; Hep3B, ED₅₀ = 3.1 μ g/mL, control 5-Fluorouracil, ED₅₀ = 0.0715 μ g/mL; SiHa, not determined, control Actinomycin D, ED₅₀ = 0.00081 μ g/mL; HepG2, ED₅₀ = 3.9 μ g/mL, control 5-Fluorouracil, ED₅₀ = 0.033 μ g/mL; HT29, ED₅₀ = 6.7 μ g/mL, control 5-Fluorouracil, ED₅₀ = 0.074 μ g/mL; HCT116, no significant activity, control 5-Fluorouracil, ED₅₀ = 0.48 μ g/mL; MCF7, not determined; MCF7-ras, not determined). **Source:** JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.0003%dw). **Ref:** 4612.

**17873 Procumbine**

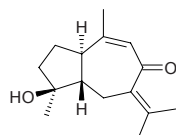
[109389-82-4] C₂₀H₁₇NO₇ (383.36). Orange-red needles, mp 191~192°C. **Source:** PING ZHAN JIAO HUI XIANG *Hypocoum procumbens*, XI GUO JIAO HUI XIANG *Hypocoum leptocarpum*. **Ref:** 3320, 3321.

**17874 Procurcumadiol**

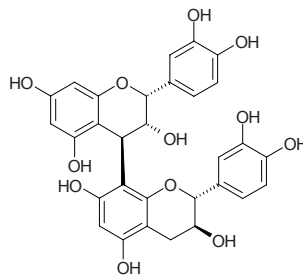
4 β ,5 β -Dihydroxy-7(11),9-guaiadien-8-one [129673-90-1] C₁₅H₂₂O₃ (250.34). Needles (C₆H₆), mp 150~150.5°C. **Source:** JIANG HUANG *Curcuma longa*. **Ref:** 1405.

**17875 Procurcumenol**

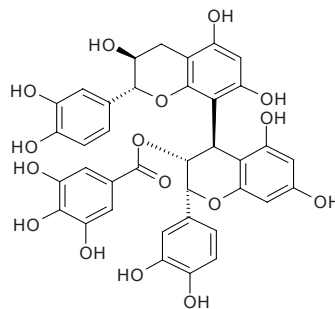
[21698-40-8] C₁₅H₂₂O₂ (234.34). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (67.8 \pm 4.4)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, *p* < 0.01)^[4150], TNF- α production inhibitor (LPS-activated macrophages, mean IC₅₀ = 310.5 μ mol/L)^[4416]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 4150, 4416.

**17876 Procyanidin B₁**

[20315-25-7] C₃₀H₂₆O₁₂ (578.53). Yellowish powder, crystals (MeOH, deca-Ac compound), mp 231~232°C (deca-Ac compound), RI [25, D] = +110.9° (*c* = 2, acetone, deca-Ac compound). **Pharm:** Antineoplastic (tumor caused by TPA, 10 μ mol/L); antioxidant (inhibits free-radical induced lysis of rat red blood cells and exhibits strong and dose-dependent protection of cell membrane)^[5341]; antioxidant (mitochondria of mus heart, inhibits oxygen consumption, IC₅₀ = 16.0 μ mol/L, inhibits formation of MDA, IC₅₀ = 15.5 μ mol/L, at 5 \times 10⁻⁵~100 \times 10⁻⁵%, pH 7~9, activity stronger than VC, γ -oryzanol, gallic acid and catechin); DPPH scavenger (stronger than VC and VE). **Source:** BING LANG *Areca catechu*, CHANG JI HUANG *Rheum* sp.^[4893], CHI DOU *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], DAN ZI SHAN *ZHA Crataegus monogyna*, HONG HUA LU TI CAO *Pyrola incarnata*, HUA GOU TENG *Uncaria sinensis*, HUANG YAO ZI *Dioscorea bulbifera*, KE KE *Theobroma cacao*, LUO HAN BAI *Thujopsis dolobrata*, LUO YE SONG *Larix gmelini*, MAO HANG ZI SHAO *Campylotropis hirtella*, MAO SHU *Dioscorea alata*, MAO ZHI HUA *Betula pubescens*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, PU⁽²⁾ TAO *Vitis vinifera*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHU LIANG *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], YE CAO MEI *Fragaria vesca*, YUE JU YE *Vaccinium vitis-idaea*, ZHANG SHU PI *Cinnamomum camphora*, *Betula* spp., occurs in many plants. **Ref:** 660, 1521, 1555, 2871, 2893, 2963, 2977, 3103, 3322, 3323, 3324, 4893, 5341.

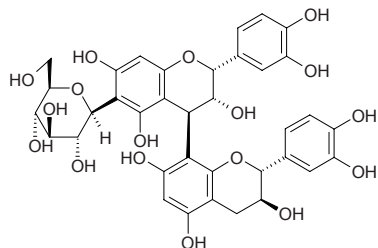
**17877 Procyanidin B₁ 3'-*O*-gallate**

C₃₇H₃₀O₁₆ (730.64). [α]_D²¹ = -21° (Me₂CO). **Source:** CHANG JI HUANG *Rheum* sp.^[4893], DA HUANG *Rheum officinale*, HE SHOU WU *Polygonum multiflorum*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 660, 1521, 2893, 4893.

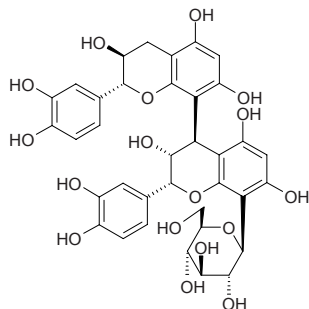


17878 Procyanidin B₁-6-C-β-D-glucopyranoside

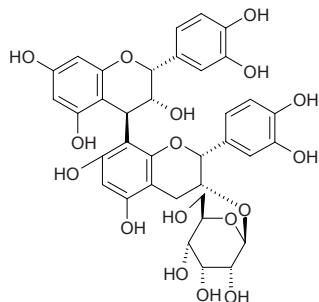
[105330-50-5] C₃₆H₃₆O₁₇ (740.68). Off-white amorphous powder +2H₂O or tan powder +1H₂O, [α]_D²¹ = +12.5° (c = 1.1, Me₂CO), [α]_D²¹ = +45.1° (c = 0.79, MeOH). Source: ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], *Rheum* spp. Ref: 3325, 2908.

**17879 Procyanidin B₁-8-C-β-D-glucopyranoside**

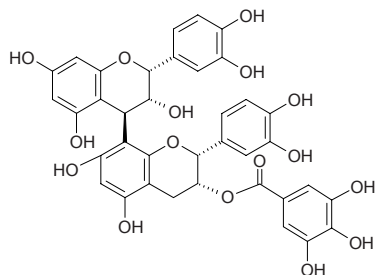
[105371-28-6] C₃₆H₃₆O₁₇ (740.68). Tan powder +1.5H₂O, [α]_D¹⁹ = +33.7° (c = 0.88, MeOH). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 2908, 3325, 4893.

**17880 Procyanidin B₂-3''-O-β-D-allopyranoside**

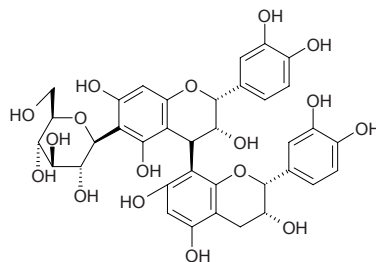
C₃₆H₃₆O₁₇ (740.68). Source: DAN YE XIN YUE JUE *Pronephrium simplex* [Syn. *Meniscium simplex*]. Ref: 660.

**17881 Procyanidin B₂-3'-O-gallate**

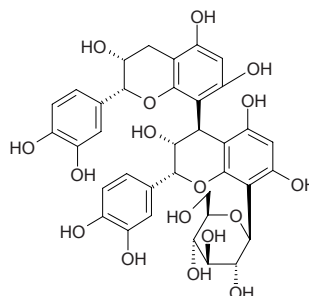
C₃₇H₃₀O₁₆ (730.64). Source: CHANG JI HUANG *Rheum* sp.^[4893], DUAN MAO JIN XIAN CAO GEN *Antenoron neofiliforme*, HONG HUA LU TI CAO *Pyrola incarnata*. Ref: 2893, 2976, 3103, 4893.

**17882 Procyanidin B₂-6-C-glucopyranoside**

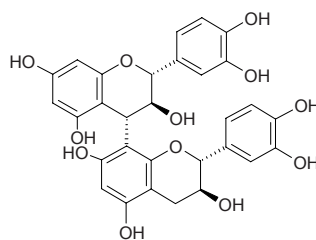
C₃₆H₃₆O₁₇ (740.68). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 3325, 4893.

**17883 Procyanidin B₂-8-C-β-D-glucopyranoside**

C₃₆H₃₆O₁₇ (740.68). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 3325, 4893.

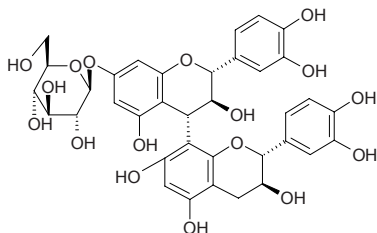
**17884 Procyanidin B₃**

[20315-25-7] C₃₀H₂₆O₁₂ (578.53). Brown amorphous powder, [α]_D¹⁸ = -158.0° (c = 0.5, acetone:H₂O = 1:1). Pharm: Antioxidant (inhibits oxidation of LDL, at (0.00005~0.005)%, pH 7~9, activity stronger than VC, γ-oryzanol, gallic acid and catechin); DPPH scavenger (stronger than VC and VE); antioxidant (DPPH scavenger, IC₅₀ = (1.11±0.15) μmol/L; control EGG, IC₅₀ = (1.13±0.08) μmol/L)^[3848]. Source: BING LANG *Areca catechu*, HONG HUA LU TI CAO *Pyrola incarnata*, HUANG HUA ER LIU *Salix caprea*, JIN YING ZI *Rosa laevigata*, LUO HUA SHENG *Arachis hypogaea* (seed), LUO YE SONG *Larix gmelini*, MAO ZHI HUA *Betula pubescens*, NIAN WEI LING CAI *Potentilla viscosa*, PU ER CHA *Camellia sinensis* var. *assamica*, PU⁽²⁾ TAO *Vitis vinifera*, RUAN TIAO QI QIANG WEI *Rosa henryi*, YAN BAI CAI *Bergenia purpurascens*, YUE JU YE *Vaccinium vitis-idaea*, *Betula* spp. Ref: 1555, 3848.

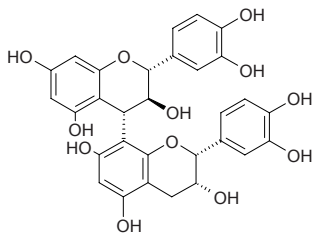


17885 Procyanidin B₃-7-O-β-D-glucopyranoside

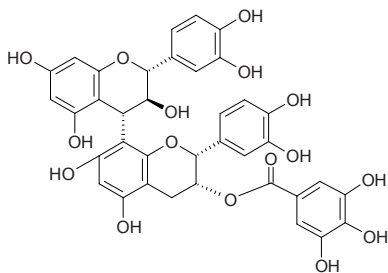
[105330-57-2] C₃₆H₃₆O₁₇ (740.68). Tan powder +1H₂O, [α]_D¹⁹ = -197.5° (c = 0.69, MeOH). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 1521, 3325, 4893.

**17886 Procyanidin B₄**

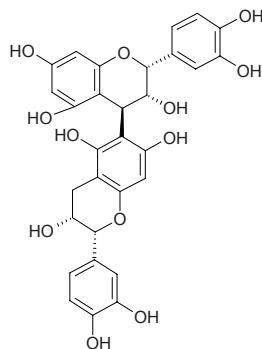
[29106-51-2] C₃₀H₂₆O₁₂ (578.53). mp 207~210°C. Pharm: Antioxidant; inhibits oxidation of LDL; antineoplastic (mus, TPA-induced skin tumor, 10 μmol/L with moderate action); antiulcerative; treatment of pediatric gastrointestinal functional disorder; antioxidant (DPPH scavenger, IC₅₀ = (1.02±0.09) μmol/L; control EGG, IC₅₀ = (1.13±0.08) μmol/L)^[3848]. Source: FU PEN ZI *Rubus idaeus*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LUO HUA SHENG *Arachis hypogaea* (seed). Ref: 612, 658, 1832, 1833, 3848.

**17887 Procyanidin B₄-3'-O-gallate**

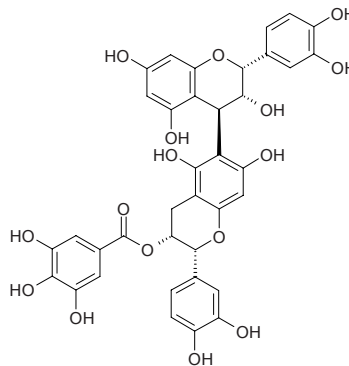
C₃₇H₃₀O₁₆ (730.64). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 2893, 4893.

**17888 Procyanidin B₅**

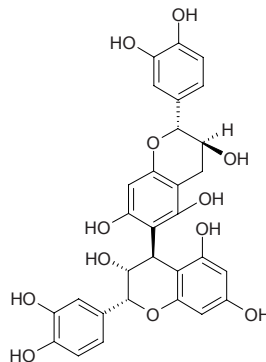
Proanthocyanidin B₅ [12798-57-1] C₃₀H₂₆O₁₂ (578.53). [α]_D = +102° (H₂O). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull)^[3066], DUN YE GUI PI *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], FU SHE SONG *Pinus radiata*, HAI ZHOU GU SUI BU *Davallia mariesii*, KE KE *Theobroma cacao*, MAO HANG ZI SHAO *Campylotropis hirtella*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHU LIANG *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], TAI DA SONG *Pinus taeda*. Ref: 1521, 2604, 2871, 2908, 2963, 2977, 3066.

**17889 Procyanidin B₅ 3'-O-gallate**

C₃₇H₃₀O₁₆ (730.64). White powder, [α]_D²² = 61° (c = 0.12, MeOH). Source: SHAN PU TAO *Vitis amurensis*. Ref: 772.

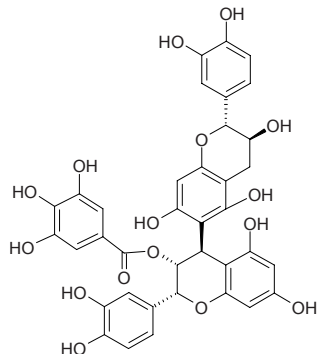
**17890 Procyanidin B₇**

[12798-59-3] C₃₀H₂₆O₁₂ (578.53). [α]_D = +142° (H₂O). Source: CHANG JI HUANG *Rheum* sp.^[4893], HUANG HUA ER LIU *Salix caprea*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], TAI DA SONG *Pinus taeda*, YUE JU YE *Vaccinium vitis-idaea*, ZHANG SHU PI *Cinnamomum camphora*. Ref: 1521, 2893, 2963, 3324, 4893.

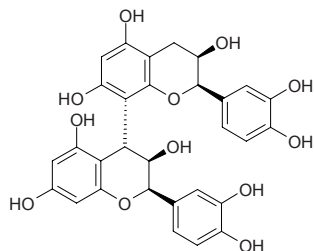


17891 Procyanidin B₇-3-O-gallate

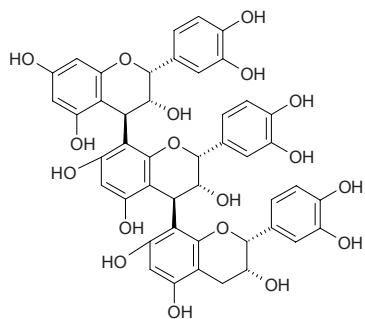
C₃₇H₃₀O₁₆ (730.64). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 2893, 4893.

**17892 Procyanidin C**

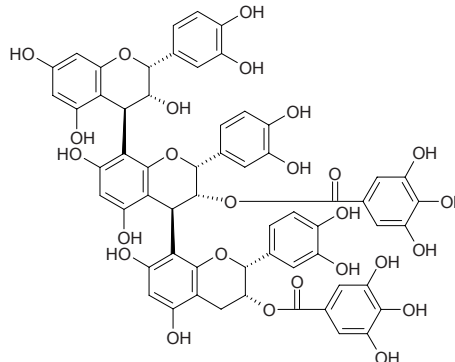
[35356-33-3] C₃₀H₂₆O₁₂ (578.53). mp 212~215°C, [α]_D²⁷ = -201° (methanol). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, HONG HUA LU TI CAO *Pyrola incarnata*. Ref: 612, 660.

**17893 Procyanidin C₁**

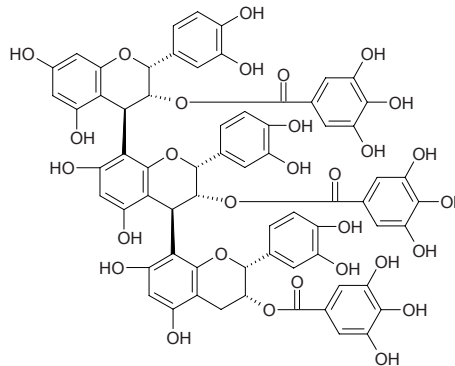
[65085-09-8] C₄₅H₃₈O₁₈ (866.79). [α]_D = +102° (H₂O). Source: MAO HANG ZI SHAO *Campylotropis hirtella*, ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHU LIANG *Dioscorea cirrhosa* [Syn. *Dioscorea poganoides*], ZHANG SHU PI *Cinnamomum camphora*, occurs in many plants. Ref: 660, 1521, 2871, 2963, 2977.

**17894 Procyanidin C₁-3',3''-di-O-gallate**

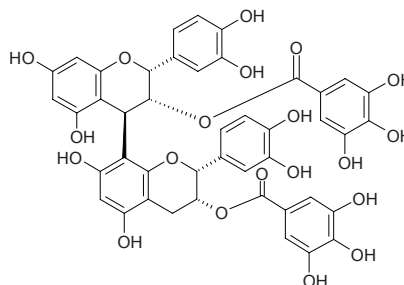
[106533-61-3] C₅₉H₄₆O₂₆ (1171.01). Tan amorphous powder +4H₂O, [α]_D²⁸ = -5.5° (c = 0.64, Me₂CO). Source: CHANG JI HUANG *Rheum* sp.^[4893]. Ref: 2893, 4893.

**17895 Procyanidin C₁-3,3',3''-tri-O-gallate**

[106533-62-4, 117772-85-7] C₆₆H₅₀O₃₀ (1323.12). Tan amorphous powder +3H₂O, [α]_D²⁸ = +13.4° (c = 0.93, Me₂CO). Pharm: Angiotensin I-converting enzyme inhibitor, ACEI (strong); xanthinoxidase inhibitor; antioxidant (peroxidized anion scavenger); cytotoxic (melanotic carcinoma RPMI-7951 ED₅₀ = 3.05 μg/mL). Source: CHANG JI HUANG *Rheum* sp.^[4893], HU ER CAO *Saxifraga stolonifera*. Ref: 1728, 2893, 3326, 3327, 4893.

**17896 Procyanidin B₂ 3,3'-di-O-gallate**

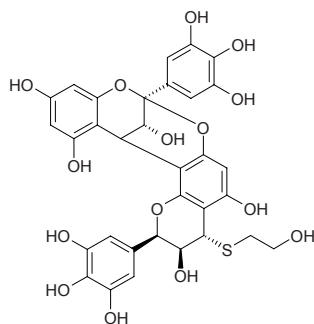
[79907-44-1] C₄₄H₃₄O₂₀ (882.75). Pharm: Antiviral (HSV-1, concentration for reducing spots by 50% PRD₅₀ = 15 μmol/L); cytotoxic (melanotic carcinoma RPMI-7951, ED₅₀ = 3.45 μg/mL); topoisomerase II inhibitor (*in vitro*, IC₅₀ = 12.5 μmol/L). Source: CHANG JI HUANG *Rheum* sp.^[4893], DA HUANG *Rheum officinale*, HONG HUA LU TI CAO *Pyrola incarnata*, TANG GU TE DA HUANG *Rheum tanguticum*, TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660, 1046, 1727, 1728, 2656, 2893, 3103, 4893.



17897 Prodelphinidin A₂ 4'-(2-hydroxyethyl)thio ether

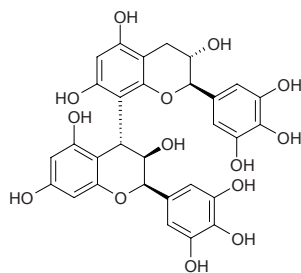
C₃₂H₂₈O₁₅S (684.63). Red amorphous powder, $[\alpha]_D = -18.6^\circ$ ($c = 0.2$, MeOH).

Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.

**17898 Prodelphinidin B₁**

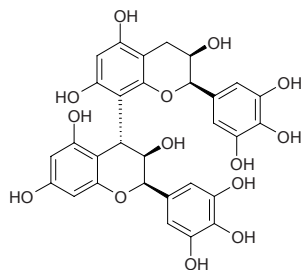
C₃₀H₂₆O₁₄ (610.53). Source: AN MO LE *Phyllanthus emblica* (leaf, branch).

Ref: 3094.

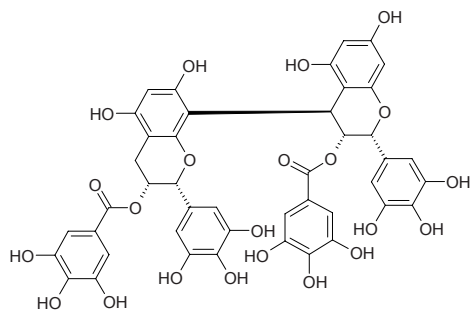
**17899 Prodelphinidin B₂**

C₃₀H₂₆O₁₄ (610.53). Source: AN MO LE *Phyllanthus emblica* (leaf, branch).

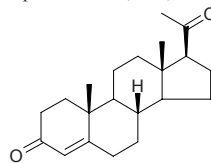
Ref: 3094.

**17900 Prodelphinidin B 23,3'-di-O-gallate**

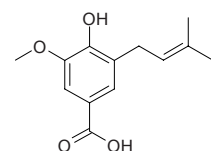
C₄₄H₃₄O₂₂ (914.75). Pharm: Anti-HSV-2 (*in vitro*, XTT and plaque reduction (PRA) assay, MOI (multiplicity of infection: Number of virus units (plaque forming units (PFU)) per cell) = 0.5, IC₅₀ = (5.3±0.1)μmol/L, CC₅₀ = (35.5±2.5)μmol/L, SI = 6.7, control Acyclovir IC₅₀ = (0.8±0.1)μmol/L, CC₅₀ > 1000μmol/L, SI > 1250; plaque reduction assay, IC₅₀ = (0.4±0.04)μmol/L, SI = 88.8, Acyclovir IC₅₀ = (0.4±0.1)μmol/L, SI > 2500). Source: YANG MEI SHU PI *Myrica rubra*. Ref: 5468.

**17901 Progesterone**

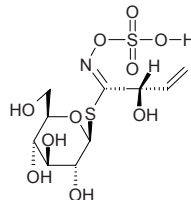
Pregn-4-ene-3,20-dione; Progestine; Progestone; Gestone; Nalutron; Luteol [57-83-0] C₂₁H₃₀O₂ (314.47). mp (α) 129~131°C, mp (β) 121°C, $[\alpha]_D^{20} (\beta) = +172\sim182^\circ$ ($c = 2$, dioxane), insoluble in water, soluble in ethanol, acetone, chloroform, dioxane.^[5507] Pharm: Steroid hormone (responsible for preparing the inner lining of the uterus for pregnancy). Source: ZI HE CHE *Homo sapiens*. Ref: 6, 658, 5507.

**17902 Proglobleflowery acid**

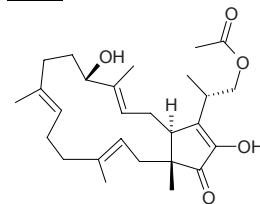
3-Methoxy-4-hydroxyl-5-(3'-methyl-2') butylenyl benzoic acid [146367-85-3] C₁₃H₁₆O₄ (236.27). White acicular crystals (ethanol-water), mp 141~142°C, hardly soluble in water, easily soluble in 5mol/L NaHCO₃. Source: CHANG BAN JIN LIAN HUA *Trollius macropetalus*. Ref: 245.

**17903 Progoitrin**

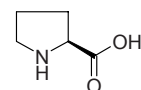
[585-95-5] C₁₁H₁₉NO₁₀S₂ (389.40). Pharm: Causes goitre; feeding irritant (*Plutella maculipennis*); promotes oviposition (*Delia brassicae*); toxin (animal model). Source: YOU CAI ZI *Brassica napus* var. *napus*, JIE ZI *Brassica juncea*, GAN LAN *Brassica oleracea* var. *capitata*. Ref: 658.

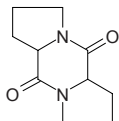
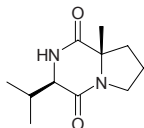
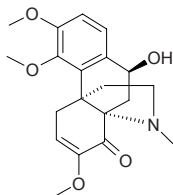
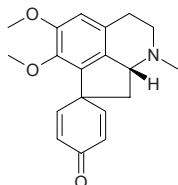
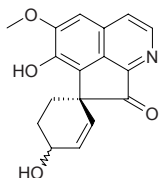
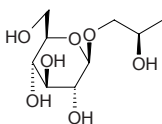
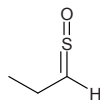
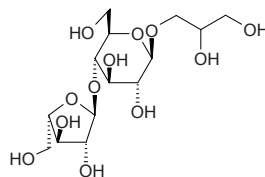
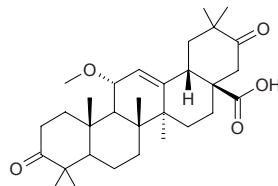
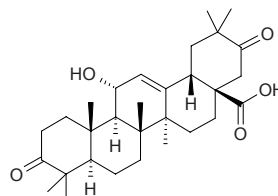
**17904 Proliferin**

Fysaproliferin [152469-17-5] C₂₇H₄₀O₅ (444.61). Amorphous solid, mp 142~147°C, $[\alpha]_D = -35^\circ$ ($c = 0.255$, methanol). Pharm: Toxin (*Artemia salina*). Source: DUN YE SHU YU *Dioscorea zingiberensis*. Ref: 1166.

**17905 Proline**

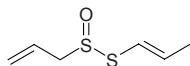
[147-85-3] C₅H₉NO₂ (115.13). Crystals (EtOH-Et₂O), mp 220~222°C (dec), $[\alpha]_D^{25} = -86.2^\circ$ ($c = 1$, H₂O), $[\alpha]_D = -60.4^\circ$ ($c = 1$, 5M HCl). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.07%~0.74%, mean content = 0.52%)^[5521], occurs in many plants. Ref: 1521, 5521.



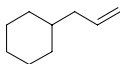
17906 L-Prolyl-L-proline anhydrideC₁₀H₁₄N₂O₂ (194.24). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*.Ref: 477.**17907 L-Prolyl-L-valine anhydride**C₁₁H₁₈N₂O₂ (210.28). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*.Ref: 3328.**17908 Prometaphanine**[6858-85-1] C₂₀H₂₅NO₅ (359.43). Source: QIAN JIN TENG *Stephania**japonica*. Ref: 6, 1521.**17909 Pronuciferine**[2128-60-1] C₁₉H₂₁NO₃ (311.38). mp (+) 127~129°C, (±) 148~1451°C. Pharm:Local anesthetic. Source: GUANG YE DI BU RONG *Stephania glabra*, HE YE *Nelumbo nucifera*, LIAN ZI *Nelumbo nucifera*, LIAN ZI XIN *Nelumbo nucifera*, XIAN YE BA DOU *Croton linearis*. Ref: 6, 658.**17910 Prooxocryprochine**C₁₇H₁₅NO₄ (297.31). Yellow syrup, [α]_D²⁰ = -17.2° (c = 0.0193, MeOH). Source:HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.**17911 (2S)-Propane-1,2-diol 1-O-β-D-glucopyranoside**C₉H₁₈O₇ (238.24). Amorphous powder, [α]_D²¹ = -8°. Source: HU SUI ZI*Coriandrum sativum*. Ref: 4302.**17912 Propanethial S-oxide**C₃H₆OS (90.15). Pharm: Lacrimator. Source: YANG CONG *Allium cepa*. Ref: 658.**17913 Propane-1-thiol**[107-03-9] C₃H₈S (76.16). Pharm: Flavorant. Source: BAI FAN DOU*Phaseolus vulgaris*, DA TOU SUAN *Allium ampeloprasum*, MA LING SHU *Solanum tuberosum*, WAN DOU *Pisum sativum*, YANG CONG *Allium cepa*.Ref: 658.**17914 Propane-2-thiol**[75-33-2] C₃H₈S (76.16). Pharm: Flavorant. Source: MA LING SHU *Solanum tuberosum*. Ref: 658.**17915 Propanetriol-α-L-arabinofuranosyl (1→4)-β-D-glucopyranoside**C₁₄H₂₆O₁₂ (386.36). Pharm: Antihypertensive. Source: HONG HUA*Carthamus tinctorius*. Ref: 3329.**17916 n-Propanol**[71-23-8] C₃H₈O (60.10). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.**17917 Propapyriogenin A₁**[72933-73-4] C₃₁H₄₆O₅ (498.71). Crystals (Et₂O-C₆H₆), mp 142~145°C, [α]_D²⁰ = -30° (c = 0.1, EtOH). Source: TONG TUO MU *Tetrapanax papyriferus*. Ref: 3135.**17918 Propapyriogenin A₂**[72933-74-5] C₃₀H₄₄O₅ (484.68). Pharm: Anti-inflammatory. Source: TONG TUO MU *Tetrapanax papyriferus*, YUAN YE CHAI HU *Bupleurum rotundifolium*. Ref: 658.

17919 1-Propenylallylthiosulfinate

$C_6H_{10}OS_2$ (162.27). Source: DA SUAN *Allium sativum*. Ref: 1392.

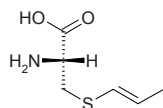
**17920 1-Propenyl-cyclohexane**

[2114-42-3] C_9H_{16} (124.23). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

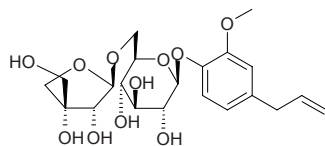
**17921 S-(1-Propenyl)-L-cystein**

[52438-09-2] $C_6H_{11}NO_2S$ (161.22). Needles (EtOH aq.), mp 195°C (dec), $[\alpha]_D^{10} = -15^\circ$ ($c = 0.4$, 2N HCl). Source: DA SUAN *Allium sativum*. Ref:

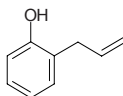
3110.

**17922 4-Propenyl-2-methoxyphenyl 6-O-β-D-apiofuranosyl (1→6)-β-D-glucopyranoside**

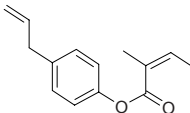
$C_{21}H_{30}O_{11}$ (458.47). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**17923 2-(2-Propenyl) phenol**

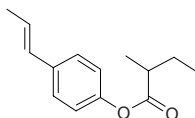
$C_9H_{10}O$ (134.18). Source: DA LIANG JIANG *Alpinia galanga*. Ref: 660.

**17924 4-(2-Propenyl)-phenyl angelate**

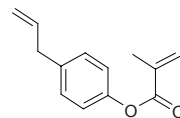
$C_{14}H_{16}O_2$ (216.28). Colorless oil. Pharm: Antimycobacterial (*Mycobacterium intracellulare*, $IC_{50} = 7.0\mu g/mL$, control Ciprofloxacin, $IC_{50} = 0.25\mu g/mL$); antifungal (*Cryptococcus neoformans*, $IC_{50} = 40\mu g/mL$, control Amphotericin B, $IC_{50} = 0.5\mu g/mL$); antimalarial (*Plasmodium falciparum* D6, $IC_{50} = 2.2\mu g/mL$, SI > 4.5, control Artemisinin, $IC_{50} = 0.006\mu g/mL$; *Plasmodium falciparum* W2, $IC_{50} = 1.8\mu g/mL$, SI > 5.5, control Artemisinin, $IC_{50} = 0.007\mu g/mL$). Source: *Pimpinella isaurica*. Ref: 5465.

**17925 4-(1-Propenyl)-phenyl 2-methylbutanoate**

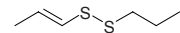
Anethol 2-methyl-butyrate $C_{14}H_{18}O_2$ (218.30). Colorless oil. Source: *Pimpinella corymbosa*. Ref: 5465.

**17926 4-(1-Propenyl)-phenyl tiglate**

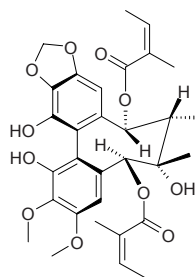
Anol tiglate $C_{14}H_{16}O_2$ (216.28). Colorless oil. Pharm: Antimycobacterial (*Mycobacterium intracellulare*, $IC_{50} = 15\mu g/mL$, control Ciprofloxacin, $IC_{50} = 0.25\mu g/mL$); antifungal (*Cryptococcus neoformans*, $IC_{50} = 25\mu g/mL$, control Amphotericin B, $IC_{50} = 0.5\mu g/mL$). Source: *Pimpinella isaurica*. Ref: 5465.

**17927 Propenyl propyl disulfide**

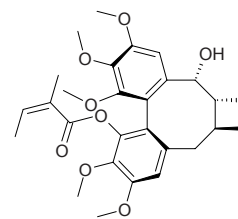
$C_6H_{12}S_2$ (148.29). Source: XI XIANG CONG *Allium schoenoprasum*. Ref: 6.

**17928 Propinquanin E**

$C_{31}H_{36}O_{11}$ (584.63). Colorless needles, mp 110–112°C, $[\alpha]_D^{20} = +34^\circ$ ($c = 0.22$, $CHCl_3$). Pharm: Cytotoxic (hmn hepatocellular carcinoma HepG2, $IC_{50} = 35.95\mu mol/L$, control Camptothecin, $IC_{50} = 1.23\mu mol/L$; hmn oropharyngeal epidermoid carcinoma KB, $IC_{50} = 46.23\mu mol/L$, Camptothecin, $IC_{50} = 1.78\mu mol/L$; hmn acute promyelocytic leukemia HL-60, $IC_{50} = 32.53\mu mol/L$, Camptothecin, $IC_{50} = 1.35\mu mol/L$; hepatocellular carcinoma Bel7402, $IC_{50} = 39.38\mu mol/L$, Camptothecin, $IC_{50} = 1.02\mu mol/L$). Source: HAN RUI WU WEI ZI *Schisandra propinqua* (stem: yield = 0.00086% dw). Ref: 2097.

**17929 Propinquanin F**

$C_{28}H_{36}O_8$ (500.59). Colorless needles, mp 109°C, $[\alpha]_D^{20} = +8.5^\circ$ ($c = 1.48$, $CHCl_3$). Pharm: Cytotoxic (hmn hepatocellular carcinoma HepG2, $IC_{50} = 59.91\mu mol/L$, control Camptothecin, $IC_{50} = 1.23\mu mol/L$; hmn oropharyngeal epidermoid carcinoma KB, $IC_{50} = 42.98\mu mol/L$, Camptothecin, $IC_{50} = 1.78\mu mol/L$; hmn acute promyelocytic leukemia HL-60, $IC_{50} = 60.02\mu mol/L$, Camptothecin, $IC_{50} = 1.35\mu mol/L$). Source: HAN RUI WU WEI ZI *Schisandra propinqua* (stem: yield = 0.0037% dw). Ref: 2097.

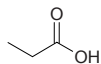
**17930 Propionaldehyde**

Propanal [123-38-6] C_3H_6O (58.08). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

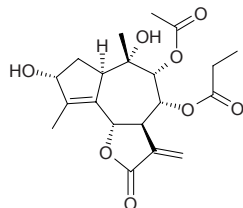


17931 Propionic acid

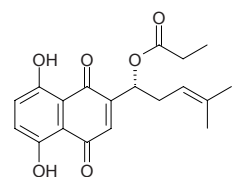
Propanoic acid [79-09-4] C₃H₆O₂ (74.08). bp 141.35°C. **Pharm:** Antifungal; antiseptic; inhibits molds. **Source:** BAI GUO *Ginkgo biloba*. **Ref:** 2, 658.

**17932 8α-Propionyloxanthemolide C**

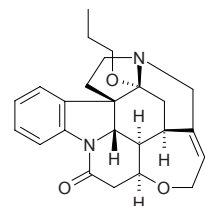
C₂₀H₂₆O₈ (394.43). Amorphous solid. **Source:** *Anthemis carpatica* (aerial parts). **Ref:** 3974.

**17933 Propionylshikonin**

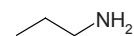
C₁₉H₂₀O₆ (344.37). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2193.

**17934 16-Propoxystrychnine**

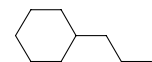
C₂₄H₂₈N₂O₃ (392.50). mp 174–175°C. **Source:** LV SONG GUO *Strychnos ignatii*. **Ref:** 6.

**17935 Propylamine**

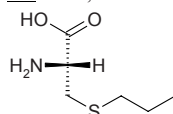
n-Propylamine [107-10-8] C₃H₉N (59.11). bp 49°C. **Source:** LING MAO XIANG *Viverra zibetha*. **Ref:** 6.

**17936 Propylcyclohexane**

[1678-92-8] C₉H₁₈ (126.24). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**17937 S-Propyl-L-cystein**

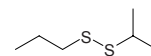
C₆H₁₃NO₂S (163.24). [α]_D = -24.9° (H₂O). **Source:** DA SUAN *Allium sativum*. **Ref:** 1521, 3330.

**17938 2-N-Propyl-1,3-dioxolane**

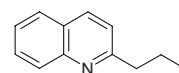
C₅H₁₁NO₂ (117.15). **Source:** AI YE *Artemisia argyi*. **Ref:** 1280.

**17939 Propyl isopropyl disulfide**

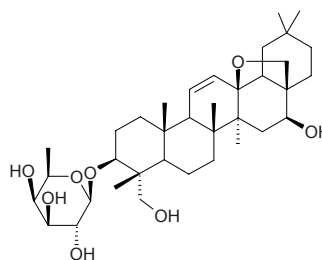
C₆H₁₄S₂ (150.31). **Source:** XIE BAI *Allium macrostemon*. **Ref:** 1391.

**17940 2-n-Propylquinoline**

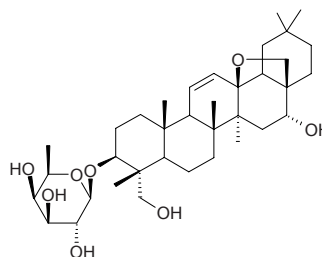
[1613-32-7] C₁₂H₁₃N (171.24). Oil. **Pharm:** Antileishmanial (*in vitro*: *Leishmania* sp. 2903 IC₅₀ = 50μg/mL, *Trypanosoma cruzi* IC₅₀ = 50μg/mL, mus-infected *Leishmania amazonensis*); antiplasmodial (*in vivo*: mus, infected by *Plasmodium vinckei*, 0.31mmol/L/kg, survival rate = 60%); plant growth and germination inhibitor (lettuce WO JU *Lactuca sativa*). **Source:** BAO PIAN TU LA SHU *Galipea bracteata*, CHANG HUA TU LA SHU *Galipea longiflora*. **Ref:** 3600, 3601, 3602, 3603.

**17941 Prosaikogenin F**

3-*O*-β-*D*-Fucopyranosyl saikogenin F C₃₆H₅₈O₈ (618.86). **Source:** ZHU YE CHAI HU *Bupleurum marginatum*. **Ref:** 660.

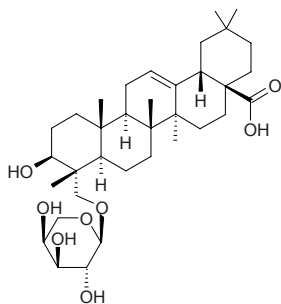
**17942 Prosaikogenin G**

C₃₆H₅₈O₈ (618.86). **Source:** WEN CHUAN CHAI HU *Bupleurum wenchuanense*. **Ref:** 3331.

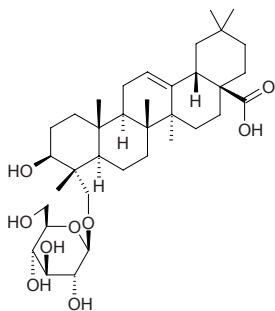


17943 Prosapogenin CP₀

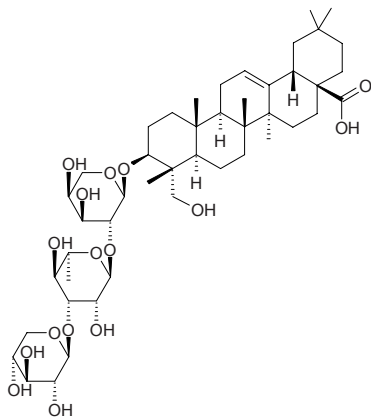
Hederagenin-23-*O*- α -*L*-arabinopyranoside C₃₅H₅₆O₈ (604.83). Source: WEI LING XIAN *Clematis chinensis*. Ref: 660.

**17944 Prosapogenin CP_{2a}**

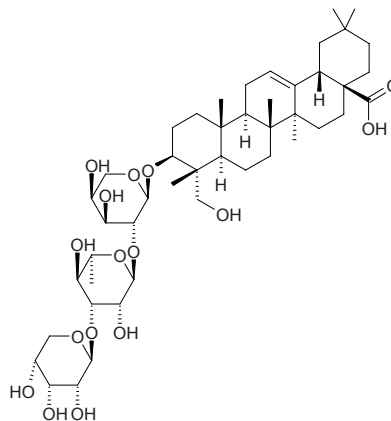
Hederagenin-23-*O*- β -*D*-glucopyranoside C₃₆H₅₈O₉ (634.86). Source: WEI LING XIAN *Clematis chinensis*. Ref: 660.

**17945 Prosapogenin CP₅**

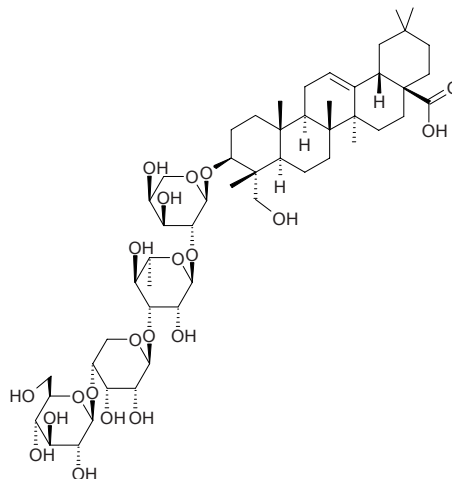
Hederagenin-3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₄₆H₇₄O₁₆ (883.09). Source: YU ZHI ZI *Akebia quinata*. Ref: 660.

**17946 Prosapogenin CP₆**

Hederagenin-3-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₄₆H₇₄O₁₆ (883.09). Source: WEI LING XIAN *Clematis chinensis*, XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 660, 3530.

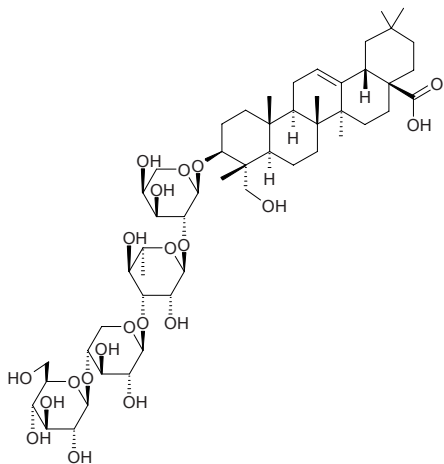
**17947 Prosapogenin CP₈**

Hederagenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-ribopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₅₂H₈₄O₂₁ (1045.24). Source: WEI LING XIAN *Clematis chinensis*, XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 660, 3530.

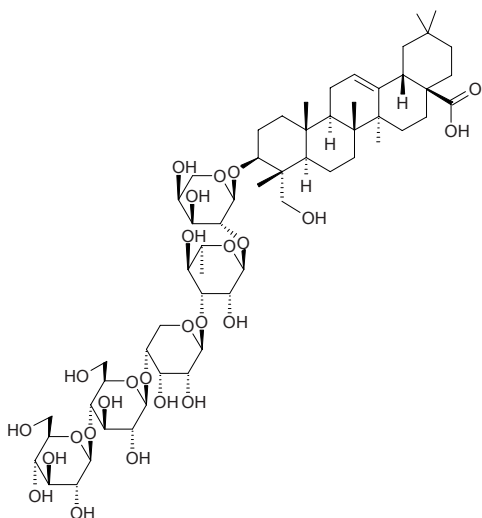


17948 Prosapogenin CP_{8a}

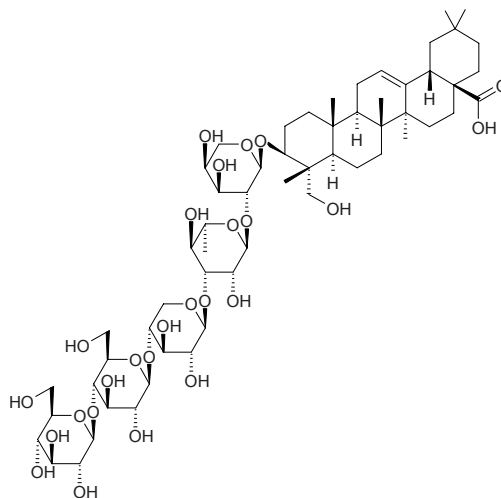
Hederagenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₅₂H₈₄O₂₁ (1045.24). Source: WEI LING XIAN *Clematis chinensis*. Ref: 660.

**17949 Prosapogenin CP₁₀**

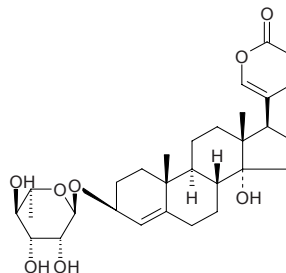
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-ribofuranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₅₈H₉₄O₂₆ (1207.38). Source: WEI LING XIAN *Clematis chinensis*, XI ZANG TIE XIAN LIAN *Clematis tibetana* (aerial parts). Ref: 660, 3530.

**17950 Prosapogenin CP_{10a}**

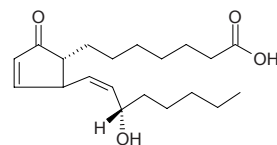
Hederagenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside C₅₈H₉₄O₂₆ (1207.38). Source: WEI LING XIAN *Clematis chinensis*. Ref: 660.

**17951 Proscillaridin A**

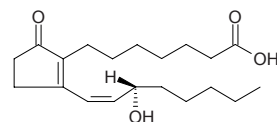
C₃₀H₄₂O₈ (530.66). mp 215–218°C. Source: MIAN ZAO ER *Scilla scilloides*. Ref: 6.

**17952 Prostaglandin A₁**

[14152-28-4] C₂₀H₃₂O₄ (336.48). Colorless powder, mp 42–44°C, easily soluble in MeOH, alcohol, CHCl₃; insoluble in water. Pharm: Antihypertensive; diuretic; antineoplastic; antiviral (poliomyelitis virus and Mayaro virus, inhibits reproduction); prostaglandin-like physio-activities. Source: FEN NIE CONG TOU *Allium cepa* var. *agrogatum*, XIE BAI *Allium macrostemon* (dried bulb: content = 0.589%^[5508]). Ref: 3644, 3645, 3646, 3647, 3648, 5508.

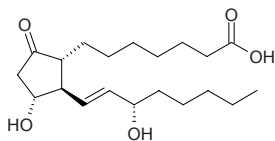
**17953 Prostaglandin B₁**

[13345-51-2] C₂₀H₃₂O₄ (336.48). Yellowish oil. Pharm: Strengthens vasoconstriction (stronger than PGE₂ and PGF_{2a}); prostaglandin-like physio-activities. Source: XIE BAI *Allium macrostemon*. Ref: 3645.

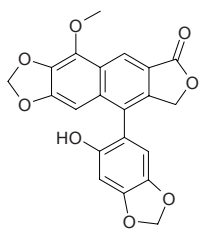


17954 Prostaglandin E₁

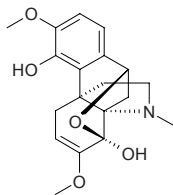
PGE₁ [745-65-3] C₂₀H₃₄O₅ (354.49). Crystals (EtOAc), mp 114–116.5°C, [α]_D²⁴ = –53.2° (*c* = 0.977, THF). Source: LU RONG *Cervus nippon*; *Cervus elaphus*. Ref: 1521, 3332, 5507.

**17955 Prostalidin A**

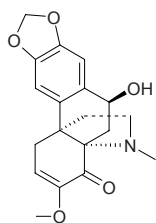
[73461-17-3] C₂₁H₁₄O₈ (394.34). Pharm: Antidepressant. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*]. Ref: 658.

**17956 Prostephabyssine**

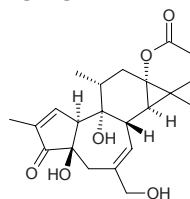
[36871-88-2] C₁₉H₂₃NO₅ (345.40). Pale-yellow glass. Source: FEN JI DU *Stephania longa*, *Stephania abyssinica*. Ref: 3333, 3334.

**17957 Prostephana aberrine**

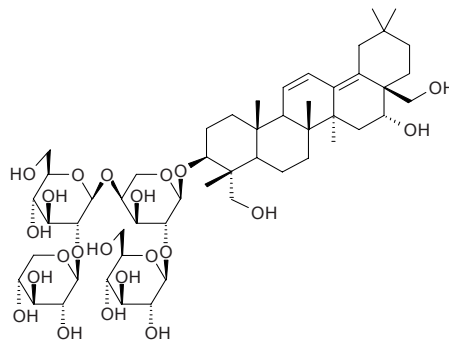
[105608-27-3] C₁₉H₂₁NO₅ (343.38). Light-yellow prisms (MeOH), mp 225°C (dec), [α]_D¹⁵ = –219.1° (*c* = 0.25, CHCl₃). Source: QIAN JIN TENG *Stephania japonica*. Ref: 3335.

**17958 Prostratin**

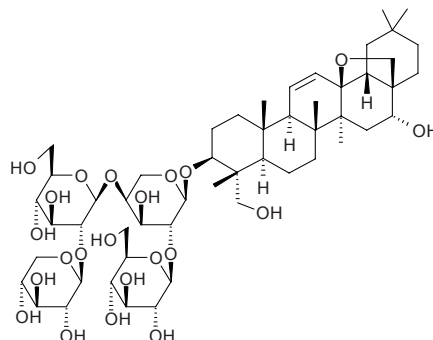
[60857-08-1] C₂₂H₃₀O₆ (390.48). Crystals (acetone), mp 225°C, 217–218°C, [α]_D = +64° (*c* = 0.13, MeOH). Pharm: Anti-HIV (CEM-SS cells infected by HIV-1, has anti-HIV-1 activity, inhibits produce of viral antigen P24 and plasmodia); used in treatment of AIDS; sedative (mus, 20mg/kg orl, InRt = 92%, 1 mg/kg sc, InRt = 62%); analgesic (mus, 20mg/kg orl, InRt = 96%, 1 mg/kg sc, InRt = 48%); inhibits hyperplasia induced by PMA (mus); ornithine decarboxylase inhibitor; anti-inflammatory (inhibits edema and inflammation induced by PMA). Source: CAO WU JIU *Stillingia sylvatica* [Syn. *Sapium sylvatica*], JIAN JIAN AO YANG *Homalanthus acuminatus*, LANG DU DA JI *Euphorbia fischeriana*, PING WO DAO HUA *Pimelea prostrata*, XIA CHUI AO YANG *Homalanthus nutans*, ZONG ZHUANG JIA RUI XIANG *Daphnopsis racemosa*. Ref: 900.

**17959 Prostratoside D**

3-*O*-{ β -*D*-Xylopyranosyl-(1→2)- β -*D*-glucopyranosyl-(1→4)-[β -*D*-glucopyranosyl-(1→2)]- α -*L*-arabinopyranoside}-saikogenin C₅₂H₈₄O₂₂ (1061.24). White powder, mp 246–248°C, [α]_D²⁵ = –21.0° (*c* = 0.58, MeOH). Source: DUO JIA CAO *Polycarpon prostratum*. Ref: 2136.

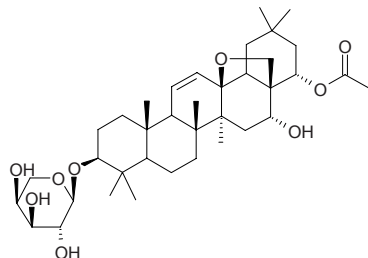
**17960 Prostratoside E**

3-*O*-{ β -*D*-Xylopyranosyl-(1→2)- β -*D*-glucopyranosyl-(1→4)-[β -*D*-glucopyranosyl-(1→2)]- α -*L*-arabinopyranoside}-saikogenin G C₅₂H₈₄O₂₂ (1061.24). White powder mp 223–226°C, [α]_D²⁵ = +14.7° (*c* = 0.51, MeOH). Source: DUO JIA CAO *Polycarpon prostratum*. Ref: 2136.

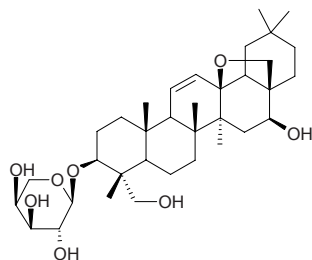


17961 Prostratoside I

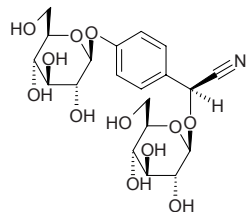
3-*O*- α -L-Arabinopyranosyl-16 α -hydroxy-22 α -acetoxy-saikogenin E
 $C_{37}H_{58}O_{19}$ (646.87). White powder. Source: DUO JIA CAO *Polycarpon prostratum*. Ref: 2086.

**17962 Prostratoside J**

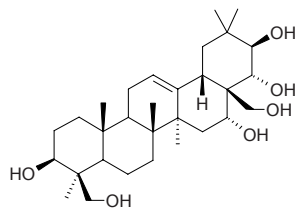
3-*O*- α -L-Arabinopyranosyl saikogenin F $C_{35}H_{56}O_8$ (604.83). White powder.
Source: DUO JIA CAO *Polycarpon prostratum*. Ref: 2086.

**17963 Proteacin**

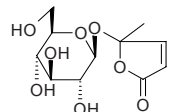
$C_{19}H_{27}NO_{12}$ (461.43). Pharm: Toxin. Source: AO ZHOU JIAN GUO
Macadamia ternifolia. Ref: 658.

**17964 Protoescigenin**

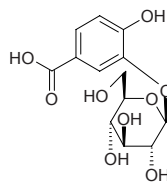
$C_{30}H_{50}O_6$ (506.73). mp 310°C. Source: RI BEN QI YE SHU *Aesculus turbinata*. Ref: 6, 660.

**17965 Protoanemonin hydrate glucoside**

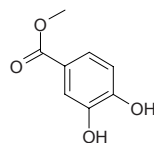
$C_{11}H_{16}O_8$ (276.25). Source: BAI HUA TENG *Clematis terniflora* [Syn.
Clematis maximowicziana]. Ref: 6.

**17966 Protocatechuic acid-3-glucoside**

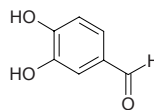
$C_{13}H_{16}O_9$ (316.27). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

**17967 Protocatechuic acid methyl ester**

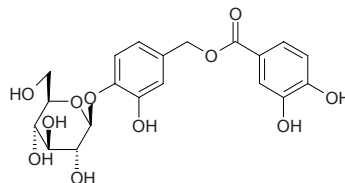
$C_8H_8O_4$ (168.15). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**17968 Protocatechuic aldehyde**

Protocatechualdehyde; 3,4-Dihydroxybenzyl aldehyde [139-85-5] $C_7H_6O_3$
(138.12). Light cream-color dacrular crystals (water), mp 153~154°C.
Pharm: Coronary vasodilator. Source: AI NA XIANG *Blumea balsamifera*
(leaf and twig: mean content = 0.0072%)^[5508], BAN XIA *Pinellia ternata*,
BIAN FU GE GEN *Menispermum dauricum*, DAN SHEN *Salvia miltiorrhiza*
(dried root: mean content of 9 origins = 0.0602%)^[5508], GAN XI SHU WEI
CAO *Salvia przewalskii* (dried root: content = 0.065%)^[5508], HONG GEN
CAO *Salvia prionitis* (dried root: content = 0.014%)^[5508], HUANG HUA
SHU WEI CAO *Salvia flava* (dried root: content = 0.024%)^[5508], JI YE SHU
WEI CAO *Salvia bulleyana* (dried root: content = 0.024%)^[5508], JIA LEI JUE
MING *Cassia garrettiana* (heartwood), LAN YU BAI JI *Bletilla formosana*
(whole herb), LI SE SHU WEI CAO *Salvia castanea* (dried root: content =
0.039%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried
root: content = 0.014%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root:
content = 0.060%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content =
0.015%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content =
0.044%)^[5508], SANG HUANG *Phellinus igniarius* (sporocarp: yield =
0.0060%dw), SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*], TIAN MA
Gastrodia elata, YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root:
content = 0.022%)^[5508], ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum*
(dried root: content = %) ^[5508], ZONG LV PI *Trachycarpus fortunei* (petiole
and fibre of sheath, roasted petiole: mean content of 5 origins = 0.156%)^[5508].
Ref: 2, 4, 6, 661, 1521, 3792, 4500, 4747, 5501, 5508.

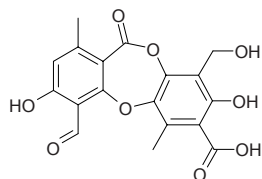
**17969 Protocatechuoyl calleryanin**

$C_{20}H_{22}O_{11}$ (438.39). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

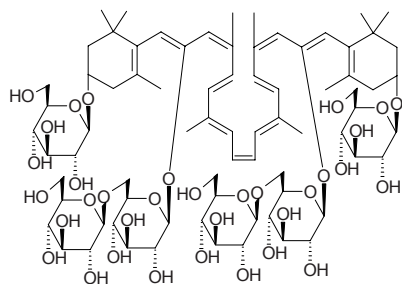


17970 Protocetraric acid

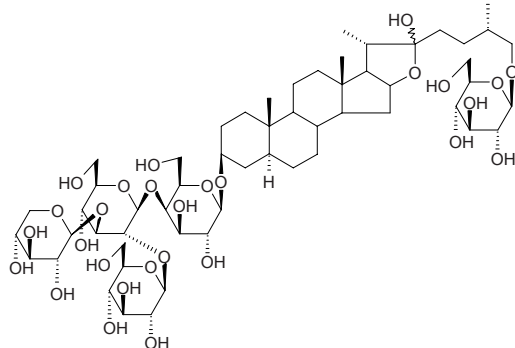
$C_{18}H_{14}O_9$ (374.31). Source: ZONG JUAN SHI RUI *Cladonia convoluta*. Ref: 5027.

**17971 Protocrocin**

$C_{76}H_{116}O_{34}$ (1573.75). Source: ZANG HONG HUA *Crocus sativus*. Ref: 6.

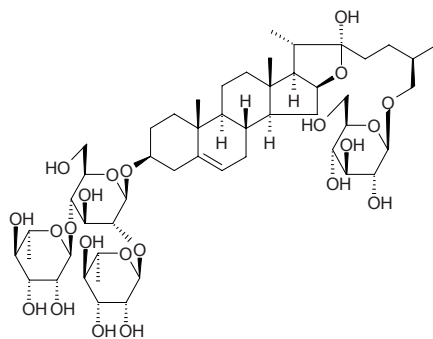
**17972 Protodesgalactotigonin**

$C_{56}H_{94}O_{28}$ (1215.36). Source: DA SUAN *Allium sativum*. Ref: 3336.

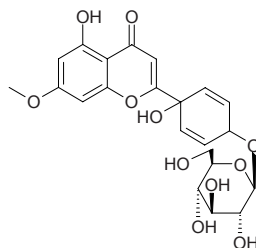
**17973 Protodioscin**

[54506-80-9] $C_{51}H_{84}O_{22}$ (1049.23). Colorless rhombic crystals (water), mp 190~196°C (dec), $[\alpha]_D = -79.8^\circ$ ($c = 0.99$, pyridine); mp 267~271°C (dec).

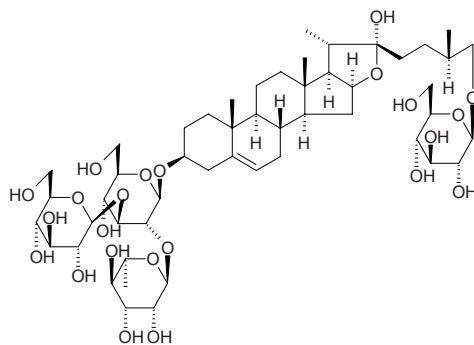
Pharm: Cytotoxic (hmn PC-6, $IC_{50} = 1.53\mu\text{g/mL}$, hmn MCF7, $IC_{50} = 1.86\mu\text{g/mL}$, hmn SW620, $IC_{50} = 1.83\mu\text{g/mL}$, hmn NUGC-3, $IC_{50} = 1.69\mu\text{g/mL}$, mus P₃₈₈, $IC_{50} = 1.67\mu\text{g/mL}$). Source: QIE ZI *Solanum melongena*, SHAN BI XIE *Dioscorea tokoro*, TIAN QIE ZI *Solanum indicum*, XIAN XI SHU YU *Dioscorea gracillima*, ZHANG LIU TOU *Costus speciosus*. Ref: 658, 900, 1462, 2730.

**17974 Protogenkwanin-4'-glucoside**

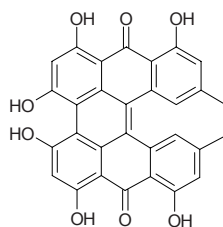
[78983-46-7] $C_{22}H_{24}O_{11}$ (464.43). Needles (MeOH), mp 129~131°C, $[\alpha]_D^{18} = -40^\circ$ ($c = 1$, pyridine). Source: GUANG NANG ZI BING JUE *Pseudophegopteris subaurita*, WEN JING *Equisetum arvense*, *Pseudophegopteris bukoensis*, *Pseudophegopteris hirtirachis*. Ref: 1521.

**17975 Protograccilin**

[54848-30-5] $C_{51}H_{84}O_{23}$ (1065.22). White rhombic crystals, mp 223~225°C, $[\alpha]_D^{25} = -75.1^\circ$ ($c = 1.00$, dimethylformamide). Pharm: Cytotoxic (K562 *in vitro*, $IC_{50} = 3.3\mu\text{mol/L}$, changes the shape of *Pyricularia oryzae* mycelium, MIC = 94.0 $\mu\text{mol/L}$). Source: CI JI LI *Tribulus terrestris*, DUN YE SHU YU *Dioscorea zingiberensis*, HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000072%)^[4692], SHAN BI XIE *Dioscorea tokoro*, XIAN XI SHU YU *Dioscorea gracillima*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*, ZHANG LIU TOU *Costus speciosus*. Ref: 10, 15, 900, 4692.

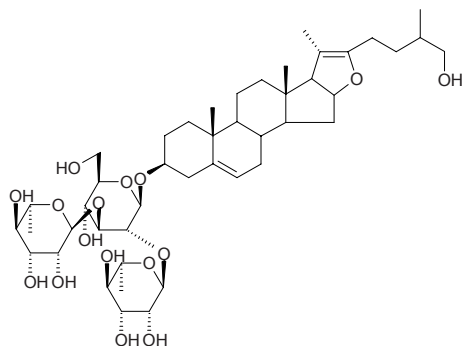
**17976 Protohypericin**

$C_{30}H_{18}O_8$ (506.47). Source: SHA DI YUAN ZHI *Polygala sabulosa* Ref: 5110.

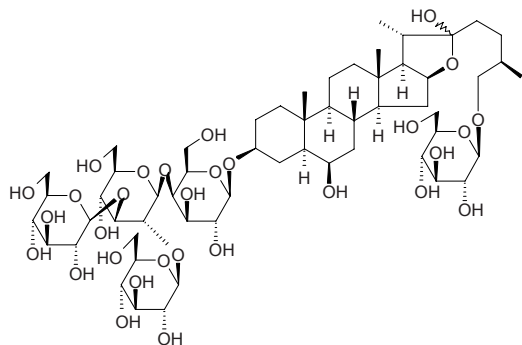


17977 Protohypoglauaine A

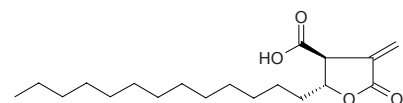
$C_{45}H_{72}O_{16}$ (869.07). **Source:** BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*]. **Ref:** 3337.

**17978 Proto-iso-erubioside B**

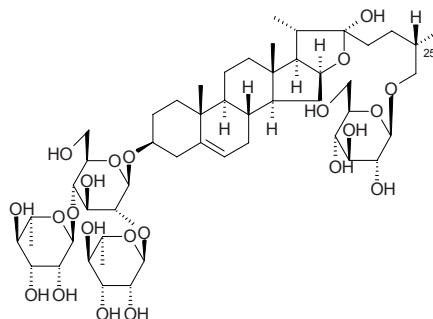
$C_{57}H_{96}O_{30}$ (1261.38). White powder, mp 218~220°C, $[\alpha]_D^{20} = -26^\circ$ ($c = 0.1$, C_5H_5N). **Pharm:** Antithrombotic; used in treatment of stroke. **Source:** DA SUAN *Allium sativum*. **Ref:** 362.

**17979 Protolichesterinic acid**

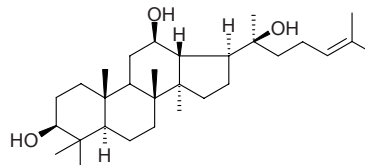
$C_{19}H_{32}O_4$ (324.46). **Pharm:** 5-LOX inhibitor (porcine leucocytes, *in vitro*, $IC_{50} = 20.0\mu\text{mol/L}$, control Zileuton, $IC_{50} = 0.4\mu\text{mol/L}$, LOX has been implicated in carcinogenesis in various cancer types); 12-LOX inhibitor (hmn platelet, *in vitro*); cytotoxic (acute promyelocytic leukemia (HL-60), $EC_{50} = (8.1\pm 1.8)\mu\text{g/mL}$, Zileuton, $EC_{50} = (38.8\pm 12.3)\mu\text{g/mL}$; colorectal adenocarcinoma (WiDr), $EC_{50} = (18.1\pm 6.2)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; erythro-leukemia (K562), $EC_{50} = (10.7\pm 0.1)\mu\text{g/mL}$, Zileuton, $EC_{50} = (38.5\pm 5.4)\mu\text{g/mL}$; gastric adenocarcinoma (AGS), $EC_{50} = (7.0\pm 0.9)\mu\text{g/mL}$, Zileuton, $EC_{50} = (70.5\pm 3.1)\mu\text{g/mL}$; breast carcinoma T47D, $EC_{50} = (3.7\pm 1.6)\mu\text{g/mL}$, Zileuton, $EC_{50} = (23.9\pm 4.1)\mu\text{g/mL}$; ovarian adenocarcinoma (NIH:OVCAR-3), $EC_{50} = (4.2\pm 1.3)\mu\text{g/mL}$, Zileuton, $EC_{50} = (53.1\pm 7.7)\mu\text{g/mL}$; pancreas cancer (Capan1), $EC_{50} = (2.4\pm 0.9)\mu\text{g/mL}$, Zileuton, $EC_{50} = (12.9\pm 11.7)\mu\text{g/mL}$; pancreas cancer (Capan2), $EC_{50} = (8.7\pm 4.5)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; pancreas cancer (PANC1), $EC_{50} = (3.1\pm 0.8)\mu\text{g/mL}$, Zileuton, $EC_{50} = (46.6\pm 5.4)\mu\text{g/mL}$; prostatic cancer (PC3), $EC_{50} = (2.6\pm 1.1)\mu\text{g/mL}$, Zileuton, $EC_{50} = (49.9\pm 9.0)\mu\text{g/mL}$; small cell lung cancer (NCI-H1417), $EC_{50} = (4.2\pm 0.2)\mu\text{g/mL}$, Zileuton, $EC_{50} > 80\mu\text{g/mL}$; T-cell leukemia (Jurkat-T), $EC_{50} = (4.3\pm 3.3)\mu\text{g/mL}$, Zileuton, $EC_{50} = (78.3\pm 5.0)\mu\text{g/mL}$). **Source:** BING DAO YI *Cetraria islandica*. **Ref:** 4082.

**17980 Protoneodioscin**

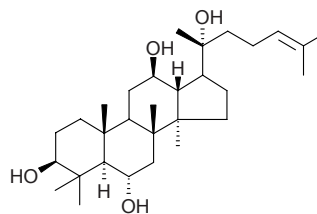
[60478-69-5] $C_{51}H_{84}O_{22}$ (1049.22). White amorphous powder, mp 166~168°C (dec), $[\alpha]_D^{13} = -70.1^\circ$ ($c = 0.001$, pyridine). **Pharm:** Cytotoxic (*in vitro*, K562, $IC_{50} = 2.7\mu\text{mol/L}$, changes the shape of *Pyricularia oryzae* mycelium, MIC = $95.4\mu\text{mol/L}$). **Source:** BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*]. **Ref:** 3714.

**17981 Protopanaxadiol**

[6892-79-1] $C_{30}H_{52}O_3$ (460.75). mp 236~238°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 6.

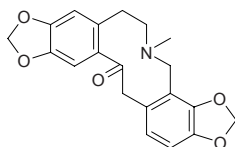
**17982 Protopanaxatriol**

20(R)-Protopanaxatriol [1453-93-6] $C_{30}H_{52}O_4$ (476.75). Colorless acicular crystals (chloroform-ether), mp 248~250°C; 233~235°C. **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], REN SHEN HUA LEI *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 6, 446.

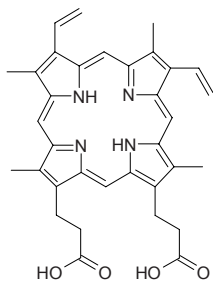


17983 Protopine

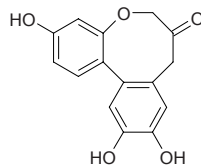
Biflorine [130-86-9] $C_{20}H_{19}NO_5$ (353.38). Colorless prisms, mp 214–216°C. **Pharm:** Antibacterial; antimalarial; antiasthmatic; choleric (bile secretion promotor); smooth muscle relaxant; sedative; pregnancy terminator (mus, stops pregnancy in early stage); anti-HIV inactive (H9 lymphocytes, control AZT, $IC_{50} = 500\mu\text{g/mL}$, $EC_{50} = 0.0317\mu\text{g/mL}$, $TI = 15,800$)^[5364]. **Source:** BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.035%)^[5508], BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.28%)^[5508], CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.02%)^[5508], DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], DA ZAO *Ziziphus jujuba*, DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (rhizome: content = 0.02%)^[5508], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.70%)^[5508], HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.44%)^[5508], JI YING SU *Argemone mexicana*, JIAN JU ZI JIN *Corydalis suaveolens* [Syn. *Corydalis sheareri*], JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)^[5508], KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 8 origins = 0.056%–0.121%, mean content = 0.093%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content < 0.001%)^[5508], NAN TIAN ZHU ZI *Nandina domestica*, QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.03%)^[5508], XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (dried tuber: content scope = 0.35%–0.65%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.34%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content < 0.001%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 2 origins = 0.048%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508], YING SU *Papaver somniferum*. **Ref:** 2, 658, 5364, 5501, 5508.

**17984 Protoporphyrin**

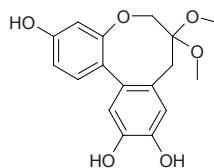
[553-12-8] $C_{34}H_{34}N_4O_4$ (562.67). mp 225–230°C. **Source:** NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*. **Ref:** 6.

**17985 Protosappanin A**

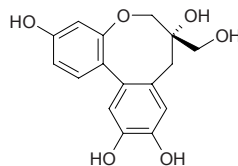
[102036-28-2] $C_{15}H_{12}O_5$ (272.26). mp 250–252°C. **Pharm:** Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, $IC_{50} = 55.6\mu\text{mol/L}$, $K_i = 34.7\mu\text{mol/L}$, control Allopurinol, $IC_{50} = 2.5\mu\text{mol/L}$, $K_i = 1.80\mu\text{mol/L}$)^[4494]. **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 508, 4494.

**17986 Protosappanin A dimethyl acetal**

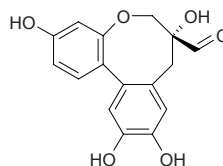
$C_{17}H_{18}O_6$ (318.33). Light yellow amorphous solid. **Pharm:** Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, $IC_{50} = 50.7\mu\text{mol/L}$, $K_i = 26.9\mu\text{mol/L}$, control Allopurinol, $IC_{50} = 2.5\mu\text{mol/L}$, $K_i = 1.80\mu\text{mol/L}$). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.

**17987 Protosappanin B**

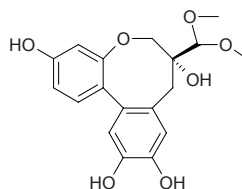
[102036-29-3] $C_{16}H_{16}O_6$ (304.30). Amorphous powder, $[\alpha]_D^{15} = -11.4^\circ$ (MeOH). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 3338, 4494.

**17988 Protosappanin C**

[111534-98-6] $C_{16}H_{14}O_6$ (302.29). $[\alpha]_D^{25} = -37.0^\circ$ ($c = 5.32$, MeOH). **Source:** RI BEN SU MU *Caesalpinia japonica*, SU MU *Caesalpinia sappan*. **Ref:** 1521, 3339.

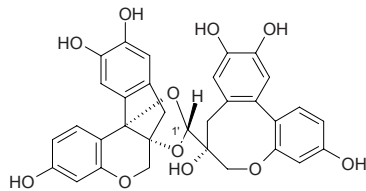
**17989 Protosappanin C dimethyl acetal**

$C_{18}H_{20}O_7$ (348.36). **Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.

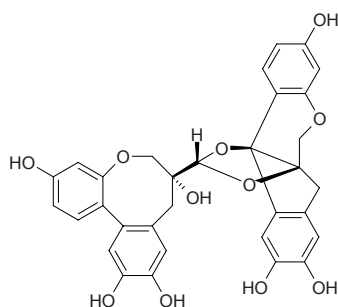


17990 Protosappanin E₁

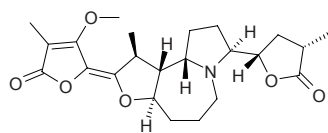
[130233-78-2] C₃₂H₂₆O₁₁ (586.56). An inseparable mixture with 1'-isomer Protosappanin E2 [Source](#): SU MU *Caesalpinia sappan*. [Ref](#): 3338.

**17991 Protosappanin E₂**

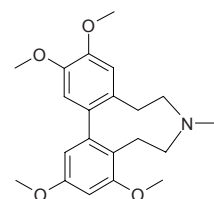
C₃₂H₂₆O₁₁ (586.56). Yellow amorphous solid, $[\alpha]_D^{20} = -16.9^\circ$ ($c = 0.175$, MeOH). [Pharm](#): Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, IC₅₀ = 18.9 μmol/L, K_i = 10.6 μmol/L, control Allopurinol, IC₅₀ = 2.5 μmol/L, K_i = 1.80 μmol/L). [Source](#): SU MU *Caesalpinia sappan* (heartwood). [Ref](#): 4494.

**17992 Protostemonine**

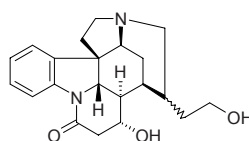
[27495-40-5] C₂₃H₃₁NO₆ (417.51). mp 172°C. [Pharm](#): Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 17.7 mg/L, EC₅₀ = 2.2 mg/L). [Source](#): DI TANG BAI BU *Stemona kerrii*, WAN SHENG BAI BU *Stemona japonica* (in 1970, the compound was isolated from the plant by H.Irie et al.)^[5505], YIN DU ZHI NA BAI BU *Stemona cochinchinensis*, ZHI LI BAI BU *Stemona sessilifolia*, *Stemona curtisii*, *Stemona cf. pierrei* (underground parts). [Ref](#): 6, 660, 3409, 3751, 5505.

**17993 Protostephanine**

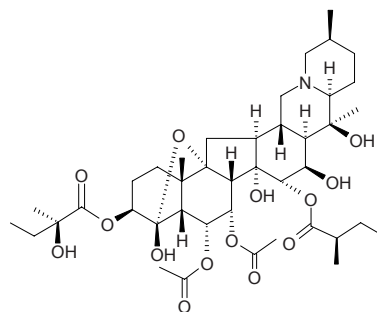
[549-28-0] C₂₁H₂₇NO₄ (357.45). mp 91°C. [Source](#): QIAN JIN TENG *Stephania japonica*. [Ref](#): 6.

**17994 Protostrychnine**

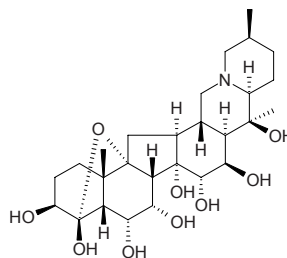
[71610-48-5] C₂₁H₂₆N₂O₃ (354.45). [Source](#): MA QIAN ZI *Strychnos nux-vomica*. [Ref](#): 2.

**17995 Protoveratrine A**

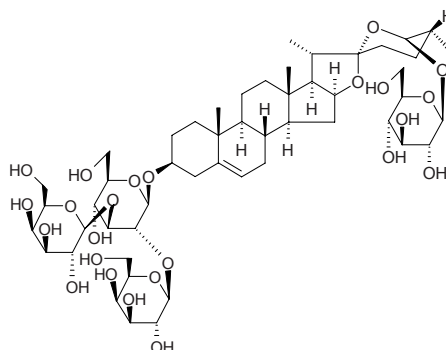
[143-57-7] C₄₁H₆₃NO₁₄ (793.96). Crystals (acetone), mp 267–269°C (dec), $[\alpha]_D^{25} = -40.5^\circ$ (pyridine), $[\alpha]_D^{25} = -10.5^\circ$ (chloroform). [Pharm](#): Antihypertensive; emetic. [Source](#): BAI LI LU *Veratrum album*. [Ref](#): 658.

**17996 Protoverine**

[76-45-9] C₂₇H₄₃NO₉ (525.65). [Pharm](#): Increases blood pressure. [Source](#): BAI LI LU *Veratrum album*. [Ref](#): 658.

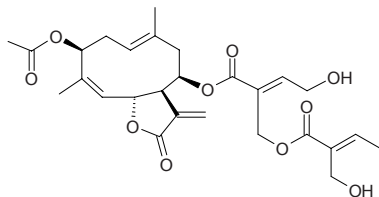
**17997 Protozingiberensisaponin**

C₅₁H₈₂O₂₄ (1079.21). [Source](#): DUN YE SHU YU *Dioscorea zingiberensis*. [Ref](#): 10.

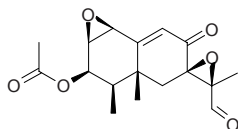


17998 Provincialin

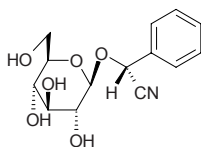
[40328-06-9] C₂₇H₃₄O₁₀ (518.57). Mucilage, difficult to crystallize, [α]_D = -85° (*c* = 0.6, chloroform). **Pharm:** Antineoplastic; cytotoxic (KB, ED₅₀ = 3.5 μg/mL). **Source:** TU ER FENG *Liatriis provincialis*. **Ref:** 661.

**17999 PR toxin**

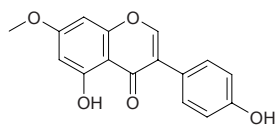
[56299-00-4] C₁₇H₂₀O₆ (320.35). **Pharm:** Supertoxic agent. **Source:** LOU DI QING MEI *Penicillium roqueforti*. **Ref:** 658.

**18000 Prunasin**

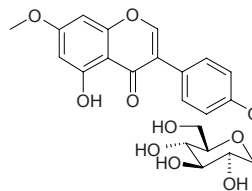
[99-18-3] C₁₄H₁₇NO₆ (295.29). **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, InRt = (10~30)%, 100 μmol/L, InRt = (31~60)%, 1 mmol/L, InRt > 61%; *Raphanus sativus*, 1 μmol/L, StRt = (10~30)%, 10 μmol/L, StRt = (10~30)%, 100 μmol/L, InRt = (10~30)%, 1 mmol/L, InRt > 61%; *Allium cepa*, 1 μmol/L, StRt or InRt < 10%, 10 μmol/L, InRt = (31~60)%, 100 μmol/L, InRt = (10~30)%, 1 mmol/L, InRt = (31~60)%)^[5217]; toxin. **Source:** OU ZHOU JUE *Pteridium aquilinum*, XI YANG JIE GU MU *Sambucus nigra*, XING REN *Prunus armeniaca*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], *Cystopteris* sp. **Ref:** 2, 658, 660, 5217.

**18001 Prunetin**

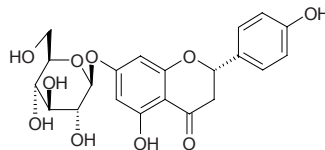
[552-59-0] C₁₆H₁₂O₅ (284.27). Colorless acicular crystals (methanol), mp 240°C; 208°C. **Pharm:** Antihypercholesterolemic (rat, hyperlipemia caused by triton WR1339). **Source:** AN GE LA ZI TAN *Pterocarpus angolensis*, GUANG GUO GAN CAO *Glycyrrhiza glabra*, MI SI KE HUANG TAN *Dalbergia miscolobium*, MU HU DIE *Oroxylum indicum*, PU DUN LI *Prunus puddun*, WEI RUI LI *Prunus verecunda*, MENG MAI ROU DOU KOU *Myristica malabarica* (heartwood). **Ref:** 661, 3906.

**18002 Prunetin 4'-O-β-D-glucopyranoside**

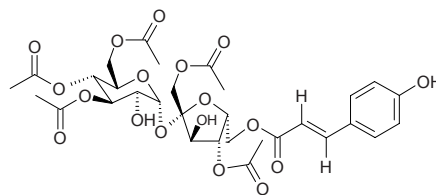
C₂₂H₂₂O₁₀ (446.41). **Source:** HUAI *Sophora japonica* (pericarp). **Ref:** 3080.

**18003 Prunin**

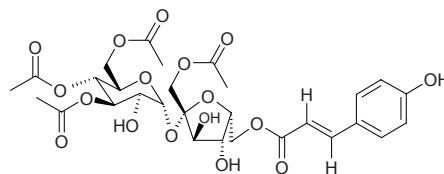
[529-55-5] C₂₁H₂₂O₁₀ (434.40). mp 224~226°C. **Pharm:** Antifungal (*Sporotrichum pulverulentum*). **Source:** FAN QIE *Lycopersicon esculentum*, TAO *Prunus persica*, MANG JING *Miscanthus sinensis*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), *Abies* sp., *Pinus* sp., *Podocarpus* sp. **Ref:** 6, 658, 4205.

**18004 Prunose I**

1,4,3',4',6'-Penta-O-acetyl-6-O-p-coumaroylsucrose C₃₁H₃₈O₁₈ (698.64). White powder, [α]_D²⁷ = +26.9° (*c* = 1.00, MeOH). **Pharm:** Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC₅₀ = 58 μmol/L; control Epalrestat, IC₅₀ = 0.072 μmol/L); platelet aggregation inhibitor (induced by thrombin, *in vitro*, 0.1 mmol/L, InRt = 30.5%, 0.3 mmol/L, InRt = 48.1%; control Aspirin, 0.1 mmol/L, InRt = 15.8%, 1.0 mmol/L, InRt = 53.5%). **Source:** BAI MEI HUA *Prunus mume* (flower: yield = 0.016%fw). **Ref:** 4641.

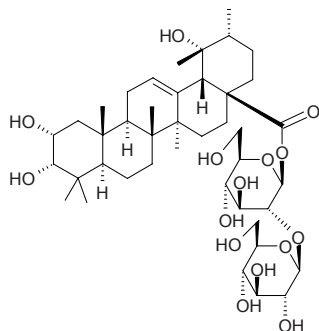
**18005 Prunose II**

1,3',4',6'-Tetra-O-acetyl-6-O-p-coumaroylsucrose C₂₉H₃₆O₁₇ (656.60). White powder, [α]_D²⁸ = +18.7° (*c* = 1.00, MeOH). **Pharm:** Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC₅₀ > 100 μmol/L, 100 μmol/L InRt = 21%; control Epalrestat, IC₅₀ = 0.072 μmol/L); platelet aggregation inhibitor (induced by thrombin, *in vitro*, 0.1 mmol/L, InRt = 27.9%, 0.3 mmol/L, InRt = 44.0%; control Aspirin, 0.1 mmol/L, InRt = 15.8%, 1.0 mmol/L, InRt = 53.5%). **Source:** BAI MEI HUA *Prunus mume* (flower: yield = 0.0084%fw). **Ref:** 4641.

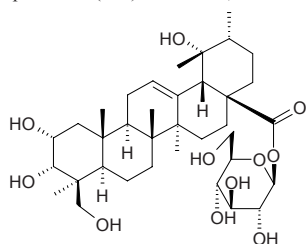


18006 Pruvuloside A

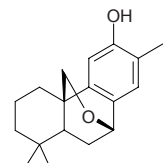
$C_{42}H_{68}O_{15}$ (813.00). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**18007 Pruvuloside B**

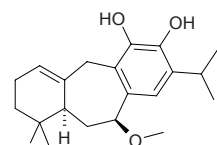
2 α ,3 α ,19 α ,24-Tetrahydroxyurs-12-en-28-oic acid 28-O- β -D-glucopyranoside
 $C_{36}H_{58}O_{11}$ (666.86). White amorphous powder. Source: XIA KU CAO
Prunella vulgaris, YE SHENG SHAN YING TAO *Prunus serrulata* var.
spontanea (leaf). Ref: 2508, 4263.

**18008 Przewalskin**

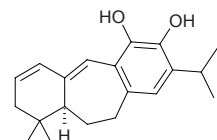
$C_{18}H_{24}O_2$ (272.39). Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref:
 1521, 4538.

**18009 Przewalskin C**

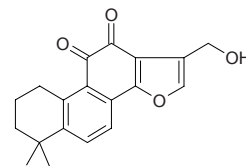
$C_{21}H_{30}O_3$ (330.47). White amorphous powder, $[\alpha]_D^{21.6} = -192.08^\circ$ ($c = 0.05$,
 $CHCl_3$). Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 4538.

**18010 Przewalskin D**

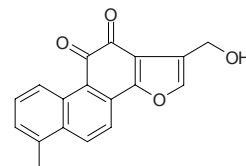
$C_{20}H_{26}O_2$ (298.43). White amorphous powder, $[\alpha]_D^{21.7} = +6.70^\circ$ ($c = 0.29$,
 $CHCl_3$). Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 4538.

**18011 Przewaquinone A**

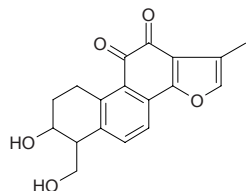
[76843-23-7] $C_{19}H_{18}O_4$ (310.35). mp 173–175°C (dec). Pharm: Cytotoxic
 (hum: A549, SK-OV-3, SK-MEL-2, XF-498, HCT15, $IC_{50} = 0.8\text{--}2.3\mu\text{g/mL}$);
 antineoplastic (mouse Lewis lung cancer, melanoma B16 and S180, 120 or
 150mg/kg ip, InRt = (35.8–67.8)%), mouse P388, biotic prolonged rate > 100%);
 antibacterial (*Staphylococcus aureus* 209P); tuberculostatic (hum,
Mycobacterium tuberculosis H37Rv, MIC = 1mg/L). Source: ZI DAN SHEN
Salvia przewalskii var. *mandarinorium*. Ref: 5, 658, 721, 1697, 1698.

**18012 Przewaquinone B**

[76829-01-1] $C_{18}H_{12}O_4$ (292.29). mp 242–243°C. Pharm: Antineoplastic.
Source: DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.002%^[5508]),
 GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content =
 0.158%^[5508]), HONG GEN CAO *Salvia prionitis* (dried root: content = trace)
^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)
^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = trace)
^[5508], LI SE SHU WEI CAO *Salvia castanea* (dried root: content =
 0.018%^[5508]), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried
 root: content = trace)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root:
 content = trace)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = trace)
^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content =
 0.003%^[5508]), YUN NAN SHU WEI CAO *Salvia yumnanensis* (dried root:
 content = 0.001%^[5508]), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorium*
 (dried root: content = %)^[5508]. Ref: 1697, 5508.

**18013 Przewaquinone F**

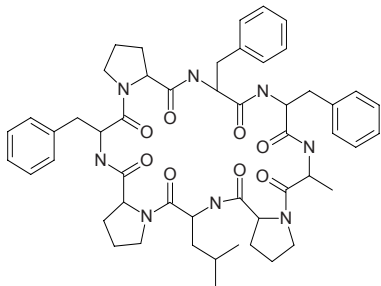
[96839-31-5] $C_{18}H_{16}O_5$ (312.33). mp 199–203°C. Source: ZI DAN SHEN
Salvia przewalskii var. *mandarinorium*. Ref: 2106.



18014 Psammosilenin A

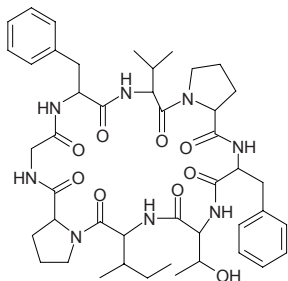
$C_{51}H_{64}N_8O_8$ (917.13). white powder, $[\alpha]_D^{24} = -108.1^\circ$ ($c = 0.39$, MeOH).

Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 898.

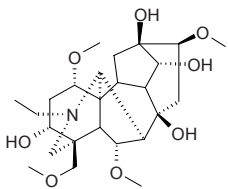
**18015 Psammosilenin B**

$C_{45}H_{62}N_8O_9$ (859.04). white powder, $[\alpha]_D^{24} = -73.6^\circ$ ($c = 0.39$, MeOH).

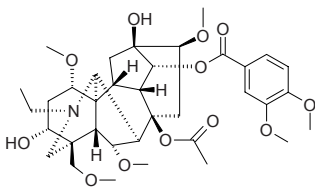
Source: JIN TIE SUO *Psammosilene tunicoides*. Ref: 898.

**18016 Pseudoaconine**

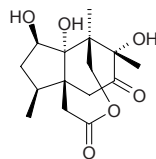
$C_{25}H_{41}NO_8$ (483.61). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*, GUA YE WU TOU *Aconitum hemsleyanum*. Ref: 2191, 2208.

**18017 Pseudoaconitine**

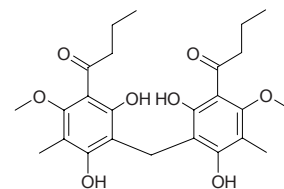
[127-29-7] $C_{36}H_{51}NO_{12}$ (689.81). mp 214°C (dec). Pharm: Antihypertensive; toxin. Source: FA KANG WU TOU *Aconitum falconeri*, NI BO ER WU TOU *Aconitum ferox*, SUI ZHUANG WU TOU *Aconitum spicatum*, YA DONG WU TOU *Aconitum balfourii*. Ref: 6, 658, 660.

**18018 Pseudoanisatin**

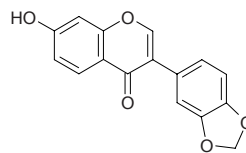
[31090-37-6] $C_{15}H_{22}O_6$ (298.34). Crystals (EtOAc), mp 207~208. Source: HONG HUI XIANG *Illicium henryi*, MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00046%dw)^[4697], RI BEN MANG CAO *Illicium anisatum*. Ref: 100, 3358, 4697.

**18019 Pseudoaspidin**

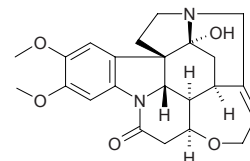
[478-28-4] $C_{25}H_{32}O_8$ (460.53). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 2, 1521.

**18020 Pseudobaptigenin**

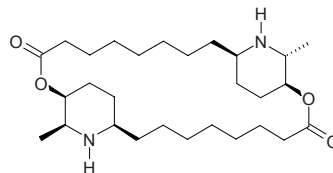
[90-29-9] $C_{16}H_{10}O_5$ (282.26). Pharm: Germination inhibitor (embryo sheath of wheat, *in vitro*). Source: *Pterocarpus* sp., *Maackia* sp., *Dalbergia* sp. Ref: 658.

**18021 Pseudobrucine**

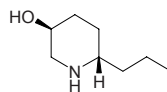
[560-30-5] $C_{23}H_{26}N_2O_5$ (410.47). mp 258°C. Source: MA QIAN ZI *Strychnos mxx-vomica*. Ref: 2.

**18022 Pseudocarpaine**

ψ -Carpaine [3760-91-6] $C_{28}H_{50}N_2O_4$ (478.72). mp 65~68°C. Source: FAN MU GUA YE *Carica papaya*. Ref: 6, 1521.

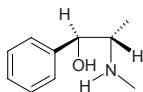
**18023 Pseudoconhydrine**

[140-55-6] $C_8H_{17}O$ (143.23). Pharm: Toxin. Source: DU SHEN *Conium maculatum*. Ref: 658.

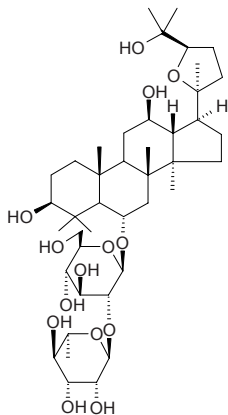


18024 D-Pseudoephedrine

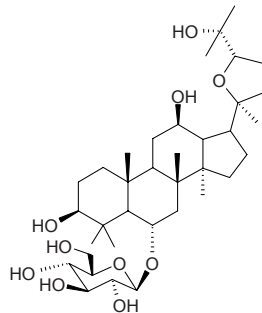
[90-82-4] $C_{10}H_{15}NO$ (165.24). mp (+) 117~118°C. **Pharm:** Contracts blood vessels (peripheral); adrenergic α -receptor agonist and β -receptor agonist (to produce sympathomimetic action); bronchial smooth muscle relaxant. **Source:** BAN ZI MA HUANG *Ephedra lepidosperma* (herbaceous twigs: content = 0.011%)^[5508], DAN ZI MA HUANG *Ephedra monosperma* (herbaceous twigs: content = 0.781%)^[5508], HUANG HUA ZI *Sida cordifolia*, LI JIANG MA HUANG *Ephedra likiangensis* (herbaceous twigs: mean content of 3 origins = 0.662%)^[5508], MA HUANG *Ephedra sinica* (herbaceous twigs: content scope = 0.037%~0.312%)^[5501], mean content of 5 origins = 0.169%^[5508], MO GUO MA HUANG *Ephedra przewalskii* (herbaceous twigs: mean content of 2 origins = 0.017%)^[5508], MU ZEI MA HUANG *Ephedra equisetina* (herbaceous twigs: content scope = 0.395%~0.654%)^[5501], mean content of 2 origins = 0.525%^[5508], SHAN LING MA HUANG *Ephedra gerardiana* (herbaceous twigs: content = 0.144%)^[5508], SHU ZHUANG MA HUANG *Ephedra procera* (herbaceous twigs: content = 0.19%)^[5508], SHUANG SUI MA HUANG *Ephedra distachya* (herbaceous twigs: content = 0.018%)^[5508], XI ZANG ZHONG MA HUANG *Ephedra intermedia* var. *tibetica* (herbaceous twigs: content = 0.070%)^[5508], XI ZI MA HUANG *Ephedra regeliana* (herbaceous twigs: content = 0.10%)^[5508], YI ZHU AI MA HUANG *Ephedra minuta* var. *dioeca* (herbaceous twigs: mean content of 2 origins = 0.230%)^[5508], ZANG MA HUANG *Ephedra saxatilis* (herbaceous twigs: content = 0.062%)^[5508], ZHONG MA HUANG *Ephedra intermedia* (herbaceous twigs: content scope = 0.798%~1.163%)^[5501], mean content of 3 origins = 0.958%^[5508], *Ephedra tweediana* (herbaceous twigs: content = 0.011%)^[5508]. **Ref:** 2, 6, 658, 660, 1521, 5501, 5508.

**18025 Pseudoginsenoside F₁₁**

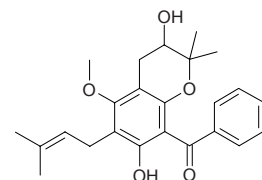
Ginsenoside A $C_{42}H_{72}O_{14}$ (801.03). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0038%dw)^[4610]. **Ref:** 2, 1521, 4610.

**18026 (24S)-Pseudoginsenoside RT₄**

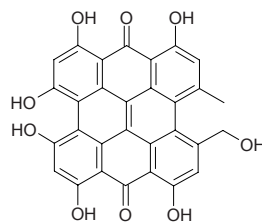
$C_{36}H_{62}O_{10}$ (654.89). **Source:** ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.013%dw). **Ref:** 4610.

**18027 Pseudoguttiaphenone-A**

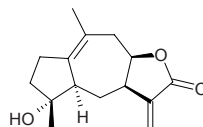
2,2-Dimethyl-8-benzoyl-3,7-dihydroxy-5-methoxy-6-(3-methyl-2-butenyl)-3,4-dihydrobenzopyran $C_{24}H_{28}O_5$ (396.49). $[\alpha]_D^{25} = +2.48^\circ$ ($c = 1.1$, $CHCl_3$). **Source:** FEI JI TENG HUANG *Garcinia pseudoguttifera* (heartwood). **Ref:** 3911.

**18028 Pseudohypericin**

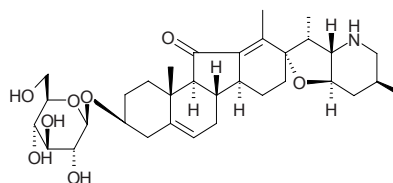
[55954-61-5] $C_{30}H_{16}O_9$ (520.46). **Pharm:** Antiviral (retrovirus, *in vitro* and *in vivo*). **Source:** SAN LENG YE JIN SI TAO *Hypericum triquetrifolium*. **Ref:** 658.

**18029 Pseudovalin**

[1461-34-3] $C_{15}H_{20}O_3$ (248.33). **Pharm:** Antifungal (*Candida albicans* and *Saccharomyces cerevisiae*). **Source:** *Iva microcephala*. **Ref:** 658.

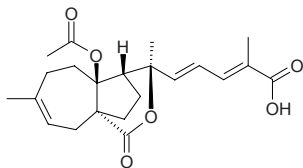
**18030 Pseudojervine**

[36069-05-3] $C_{33}H_{49}NO_8$ (587.76). mp 300~301°C (dec). **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

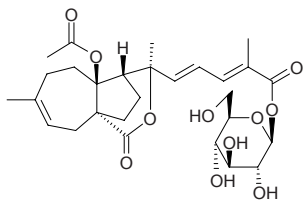


18031 Pseudolaric acid A

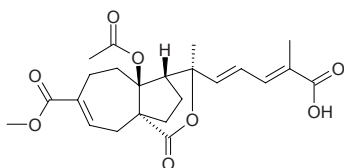
[82508-32-5] C₂₂H₂₈O₆ (388.46). mp 219°C (benzene). **Pharm:** Antifungal; LD₅₀ (mus, iv) = 485(430~548)mg/kg; LD₅₀ (mus, ip) = 396(347-453)mg/kg; LD₅₀ (mus, sc) = 311(303~319)mg/kg; LD₅₀ (rat orl) = 219(193~250)mg/kg. **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.0063%dw). **Ref:** 3340, 3341, 3342, 4637.

**18032 Pseudolaric acid A-O-β-D-glucopyranoside**

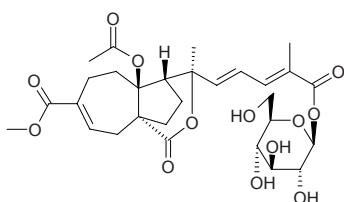
C₂₈H₃₈O₁₁ (550.61). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.0027%dw). **Ref:** 3343, 4637.

**18033 Pseudolaric acid B**

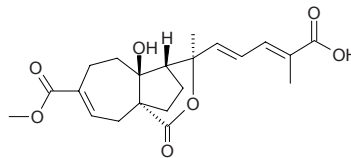
[82508-31-4] C₂₃H₂₈O₈ (432.47). Colorless powder, mp 139~141°C; crystals, mp 165~167°C (anhydro~benzene), [α]_D^{27.5} = -37.3° (c = 0.0233, MeOH). **Pharm:** Anti-fertility agent (mus, rbt, dog); antifungal; cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 0.32μg/mL; A549, IC₅₀ = 0.86μg/mL)^[4762]; LD₅₀ (mus, iv) = 423(404~442)mg/kg; LD₅₀ (mus, ip) = 316(285~351)mg/kg; LD₅₀ (rat, orl) = 130(114~149)mg/kg. **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.096%dw). **Ref:** 3340, 3341, 3342, 3344, 4637, 4762.

**18034 Pseudolaric acid B-O-β-D-glucopyranoside**

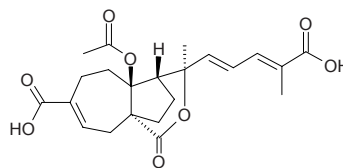
C₂₉H₃₈O₁₃ (594.62). **Pharm:** Cytotoxic (culture hmn liver cancer cell strain SMMC-7721, 10μg/mL, kill rate = 42.9%, InRt on cell proliferation = 56.7%~96.9%, InRt on protein content = 64.5%). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.0954%dw). **Ref:** 3343, 3345, 4637.

**18035 Pseudolaric acid C**

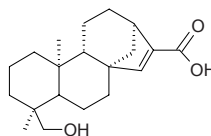
Desacetyl pseudolaric acid B [82601-41-0] C₂₁H₂₆O₇ (390.44). Colorless needles (MeOH), mp 198~200°C, [α]_D²⁵ = -78.6° (c = 0.2, MeOH); crystals, mp 220~222°C (CHCl₃). **Pharm:** Antifungal. **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. **Ref:** 3340, 3341, 3342, 3344.

**18036 Pseudolaric acid C₂**

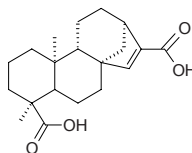
C₂₂H₂₆O₈ (418.45). **Pharm:** Antifungal. **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. **Ref:** 3359, 3341, 3342.

**18037 Pseudolaric acid D**

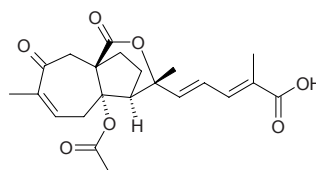
C₂₀H₃₀O₃ (318.46). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. **Ref:** 3346.

**18038 Pseudolaric acid E**

C₂₀H₂₈O₄ (332.44). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. **Ref:** 3346.

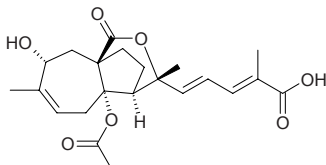
**18039 Pseudolaric acid F**

C₂₂H₂₆O₇ (402.45). White amorphous powder, [α]_D²⁰ = +25.1° (c = 0.93, Me₂CO). **Source:** TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00021%dw). **Ref:** 4637.

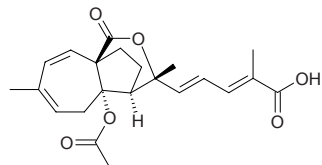


18040 Pseudolaric acid G

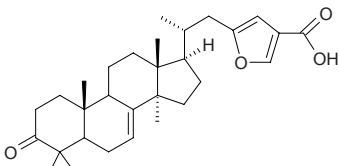
$C_{22}H_{28}O_7$ (404.46). White amorphous powder, $[\alpha]_D^{20} = -17.4^\circ$ ($c = 0.71$, Me_2CO). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.000033%dw). Ref: 4637.

**18041 Pseudolaric acid H**

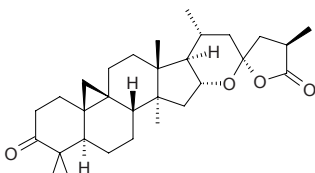
$C_{22}H_{26}O_6$ (386.45). Gum, $[\alpha]_D^{20} = +11.5^\circ$ ($c = 0.56$, Me_2CO). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.000046%dw). Ref: 4637.

**18042 Pseudolarifuroic acid**

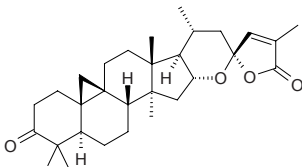
$C_{30}H_{42}O_4$ (466.67). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3347.

**18043 Pseudolarolide A**

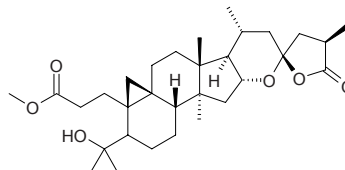
$C_{30}H_{44}O_4$ (468.68). Plates (MeOH), mp 257–259°C. Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3348.

**18044 Pseudolarolide B**

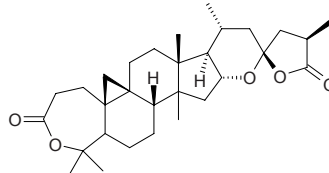
[151368-43-3] $C_{30}H_{42}O_4$ (466.67). Needles (Me_2CO), mp 229–231°C. Pharm: Cytotoxic (KB, $ED_{50} = 0.49\mu g/mL$, A549, $ED_{50} = 0.67\mu g/mL$, HCT8, $ED_{50} = 0.73\mu g/mL$, P388, $ED_{50} = 0.79\mu g/mL$). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3348.

**18045 Pseudolarolide C**

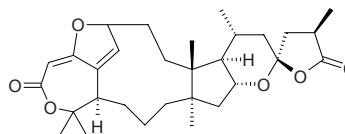
$C_{31}H_{48}O_6$ (516.72). Prisms (Me_2CO), mp 205–207.5°C. Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3348.

**18046 Pseudolarolide D**

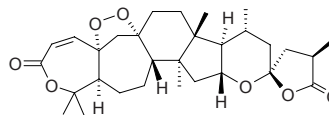
$C_{30}H_{44}O_5$ (484.68). Needles (Me_2CO), mp 222–223°C. Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3348.

**18047 Pseudolarolide E**

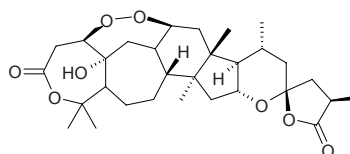
$C_{30}H_{42}O_6$ (498.67). Crystals, mp 209–210°C, $[\alpha]_D = +2.5^\circ$ ($c = 0.5$, EtOH). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3349.

**18048 Pseudolarolide H**

$C_{30}H_{42}O_7$ (514.67). Prisms (Me_2CO), mp 218–221°C. Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3350.

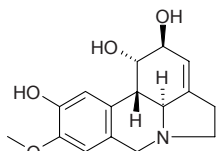
**18049 Pseudolarolide I**

$C_{30}H_{44}O_8$ (532.68). Needles (MeOH), mp 203–205°C. Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*]. Ref: 3351.

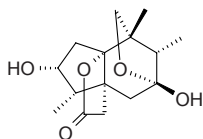


18050 Pseudolycorine

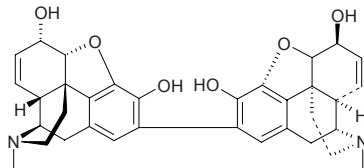
[29429-03-6] $C_{16}H_{19}NO_4$ (289.33). mp 247~248°C. **Pharm:** Antineoplastic; antiviral (meningitis virus, EMC virus and Japanese encephalitis virus); LD_{50} (rat, ip) = 110mg/kg. **Source:** DA YI ZHI JIAN *Lycoris aurea*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. **Ref:** 4, 5, 658.

**18051 Pseudomajucin**

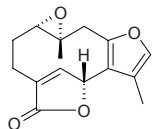
[125028-61-7] $C_{15}H_{22}O_5$ (282.34). **Source:** DA BA JIAO *Illicium majus*, MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.0073%dw), *Illicium merrillianum* (pericarp: yield = 0.037%dw). **Ref:** 1521, 3046, 4697.

**18052 Pseudomorphine**

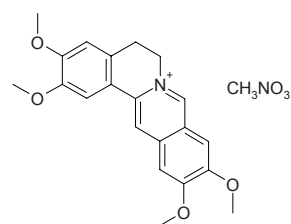
[125-24-6] $C_{34}H_{36}N_2O_6$ (568.68). mp 327°C (dec). **Source:** YA PIAN *Papaver somniferum*. **Ref:** 6.

**18053 Pseudoneolinderane**

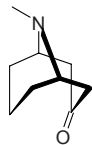
[20082-45-5] $C_{15}H_{16}O_4$ (260.29). **Pharm:** Anti-HIV-1 inactive (HIV-1 IN inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$)^[4224]. **Source:** DING HU DIAO ZHANG *Lindera chunii* (root). **Ref:** 4224.

**18054 Pseudopalmatine methyl nitrate**

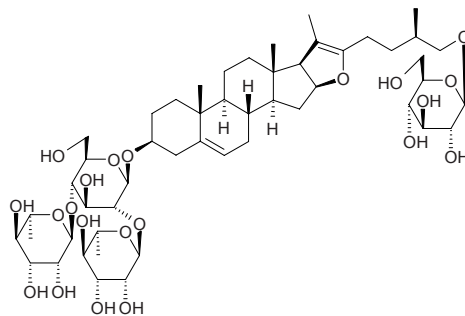
[153306-31-1] $C_{22}H_{25}N_2O_7$ (429.45). Yellow needles, mp 276~277°C (dec). **Pharm:** Cytotoxic (P_{388} , 10 $\mu\text{g/mL}$, InRt = 56%). **Source:** HUANG YE DI BU RONG *Stephania viridiflavens*. **Ref:** 3649.

**18055 Pseudopelletierine**

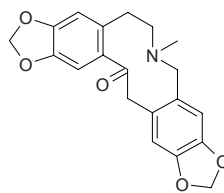
[552-70-5] $C_9H_{15}NO$ (153.23). mp 54°C. **Source:** SHI LIU GEN *Punica granatum*. **Ref:** 6.

**18056 Pseudoprotodioscin**

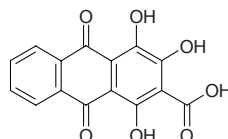
[102115-79-7] $C_{51}H_{82}O_{21}$ (1031.21). Powder (MeOH-EtOAc), mp 174~176°C (dec), $[\alpha]_D^{20} = -80.4^\circ$ ($c = 1$, pyridine), $[\alpha]_D^{25} = -66.4^\circ$ ($c = 0.1$, pyridine). **Pharm:** Cytotoxic (*in vitro*: A375, $IC_{50} = (7.38 \pm 2.32)\mu\text{mol/L}$, control Mithramycin, $IC_{50} = (0.37 \pm 0.05)\mu\text{mol/L}$; L929, $IC_{50} = (6.75 \pm 3.62)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.31 \pm 0.03)\mu\text{mol/L}$; HeLa, $IC_{50} = (5.02 \pm 2.19)\mu\text{mol/L}$, Mithramycin, $IC_{50} = (0.19 \pm 0.03)\mu\text{mol/L}$)^[5000]. **Source:** BA QIA *Smilax china* [Syn. *Smilax japonica*], HUANG SHAN YAO *Dioscorea panthaica* (rhizome), QIAO BING BA QIA *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], WA SHI ZONG LV *Trachycarpus wagnerianus*. **Ref:** 3352, 2639, 3553, 5000.

**18057 Pseudopropine**

[24240-05-9] $C_{20}H_{19}NO_5$ (353.38). White crystals, mp 201~203°C (acetone). **Pharm:** Cytotoxic (P_{388}). **Source:** FEI JI AI JIAO *Fagara vitiensis*, PIAN CHI TANG SONG CAO *Thalictrum delavayi*. **Ref:** 3650, 3651.

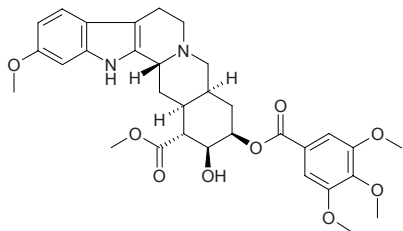
**18058 Pseudopurpurin**

[476-41-5] $C_{15}H_8O_7$ (300.23). mp 222~224°C (dec). **Pharm:** Genotoxic (hamster, mutagenesis experiment on fibrocyte). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 6, 658.

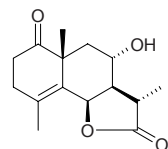


18059 Pseudoreserpine 16,17-stereoisomer

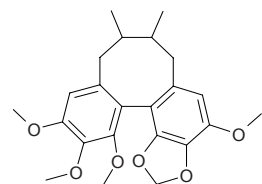
$C_{32}H_{38}N_2O_9$ (594.67). **Pharm:** Antihypertensive. **Source:** YUN NAN LUO FU MU *Rauvolfia yunnanensis*. **Ref:** 658.

**18060 Pseudosantonin**

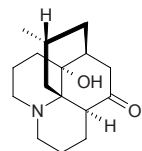
[474-05-5] $C_{15}H_{20}O_4$ (264.32). mp 183~184°C. **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 6.

**18061 Pseudo-γ-schisandrin**

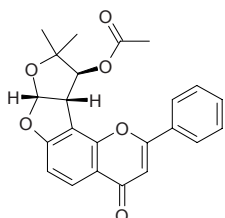
$C_{23}H_{28}O_6$ (400.48). mp 92~93°C. **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**18062 Pseudoselagine**

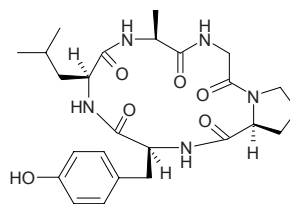
[21061-90-5] $C_{16}H_{25}NO_2$ (263.38). mp 163°C. **Source:** XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. **Ref:** 6.

**18063 Pseudosmiglabrin**

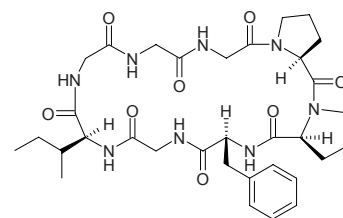
(-)-Pseudosemiglabrin [75444-25-6] $C_{23}H_{20}O_6$ (392.41). Colorless lamellar crystals (methanol), mp 171~174°C; mp 181~183°C, $[\alpha]_D^{25} = -384^\circ$ ($c = 0.49$, chloroform). **Pharm:** Platelet aggregation inhibitor (selective, caused by thromboxane A_2 , 6.5 μg/mL, InRt = (85±5)%, $IC_{50} = 12.5$ μmol/L). **Source:** HUI YE GEN *Tephrosia purpurea*. **Ref:** 900.

**18064 Pseudostellarin A**

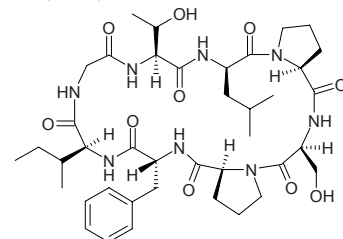
[156430-20-5] $C_{25}H_{35}N_5O_6$ (501.58). Colorless needles, mp 151~153°C (MeOH), $[\alpha]_D = -118.7^\circ$ ($c = 0.92$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 131$ μmol/L). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3652, 3653, 3654.

**18065 Pseudostellarin B**

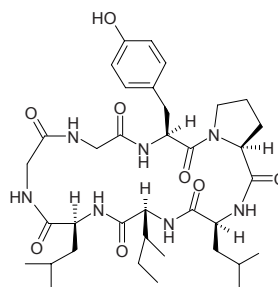
[156430-21-6] $C_{33}H_{46}N_8O_8$ (682.78). Colorless needles, mp 167~169°C (MeOH), $[\alpha]_D = -54.5^\circ$ ($c = 0.32$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 187$ μmol/L). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3652, 3653, 3654.

**18066 Pseudostellarin C**

[156430-22-7] $C_{40}H_{60}N_8O_{10}$ (812.97). Colorless needles, mp 185~187°C (MeOH), $[\alpha]_D = -39.1^\circ$ ($c = 0.52$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 63$ μmol/L). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3652, 3653, 3654.

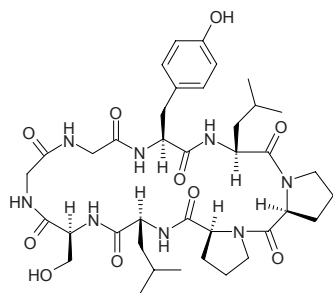
**18067 Pseudostellarin D**

[158335-65-0] $C_{36}H_{55}N_7O_8$ (713.88). Colorless needles, mp 177~179°C (MeOH), $[\alpha]_D = -64.8^\circ$ ($c = 0.54$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 100$ μmol/L); antineoplastic (inhibits formation of melanin, $IC_{50} = 49$ μmol/L). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3653, 3654.

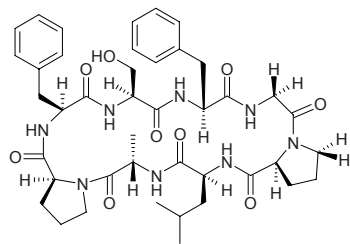


18068 Pseudostellarin F

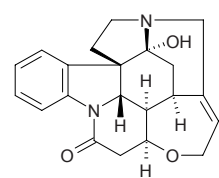
[158335-67-2] $C_{38}H_{56}N_8O_{10}$ (784.92). Colorless needles, mp 169~171°C (MeOH), $[\alpha]_D = -58.9^\circ$ ($c = 0.98$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 50\mu\text{mol/L}$). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3653, 3654.

**18069 Pseudostellarin G**

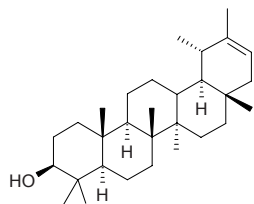
[156525-71-2] $C_{42}H_{56}N_8O_9$ (816.96). Colorless needles, mp 265°C (dec), $[\alpha]_D = -57.7^\circ$ ($c = 0.78$, MeOH). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 75\mu\text{mol/L}$); antineoplastic (inhibits formation of melanin, $IC_{50} = 102\mu\text{mol/L}$). **Source:** YI YE JIA FAN LV *Pseudostellaria heterophylla*. **Ref:** 3655, 3654.

**18070 Pseudostrychnine**

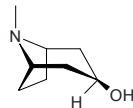
[465-62-3] $C_{21}H_{22}N_2O_3$ (350.42). mp 266°C. **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 2, 542.

**18071 Pseudotaraxterol**

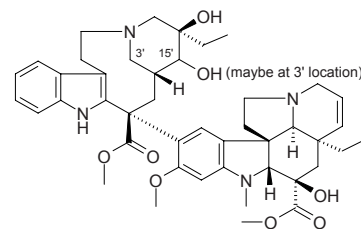
$C_{30}H_{50}O$ (426.73). **Pharm:** Antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD < 10mm, Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 10~12mm; Chloramphenicol, IZD = 16~20mm, DMSO (4%), IZD < 10 mm). **Source:** MAO LIE FENG DOU CAI *Petasites tricholobus* (rhizome). **Ref:** 5315.

**18072 Pseudotropine**

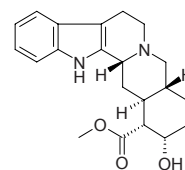
[135-97-7] $C_8H_{15}NO$ (141.21). mp 108~109°C, bp 240~241°C. **Source:** MAN TUO LUO GEN *Datura metel*, MAO MAN TUO LUO GEN *Datura innoxia*. **Ref:** 6, 660.

**18073 Pseudovincal leukoblastine diol**

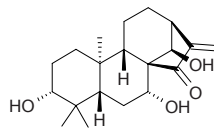
Pseudovincalastinediol [58511-80-1] $C_{44}H_{56}N_4O_8$ (768.96). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 1521.

**18074 Pseudoyohimbine**

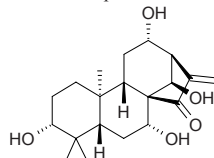
[84-37-7] $C_{21}H_{26}N_2O_3$ (354.45). White powder, $[\alpha]_D^{25.4} = +24.3^\circ$ ($c = 0.8$, pyridine). **Source:** YANG JIAO MIAN *Alstonia mairei*. **Ref:** 633.

**18075 Pseurata A**

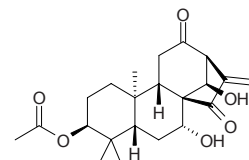
$C_{20}H_{30}O_4$ (334.46). mp 165~167°C. **Source:** CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. **Ref:** 4067.

**18076 Pseurata B**

$C_{20}H_{30}O_5$ (350.46). mp 238~241°C. **Source:** CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. **Ref:** 4067.

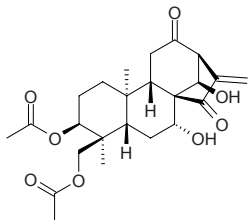
**18077 Pseurata C**

$C_{22}H_{30}O_6$ (390.48). mp 119~121°C. **Source:** CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. **Ref:** 4067.

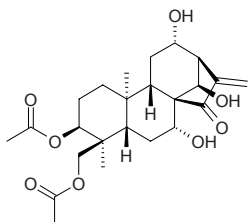


18078 Pseurata D

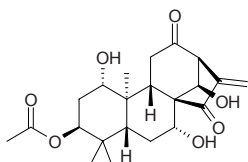
$C_{24}H_{32}O_8$ (448.52). mp 133~135°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**18079 Pseurata E**

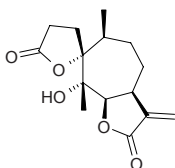
$C_{24}H_{34}O_8$ (450.53). mp 144~146°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**18080 Pseurata F**

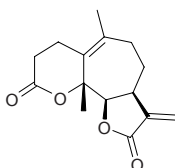
$C_{22}H_{30}O_7$ (406.48). mp 268~273°C. Source: CHUAN ZANG XIANG CHA CAI *Isodon pharicus*. Ref: 4067.

**18081 Psilostachyin**

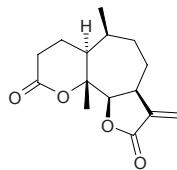
[3533-47-9] $C_{15}H_{20}O_5$ (280.32). mp 212~214°C. Source: LUO SUI TUN CAO *Ambrosia psilostachya*, TUN CAO *Ambrosia artemisiifolia*. Ref: 526, 1521.

**18082 Psilostachyin B**

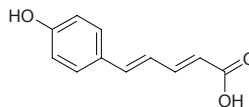
[6995-02-4] $C_{15}H_{18}O_4$ (262.31). mp 117~119°C. Source: LUO SUI TUN CAO *Ambrosia psilostachya*, TUN CAO *Ambrosia artemisiifolia*. Ref: 526, 1521.

**18083 Psilostachyin C**

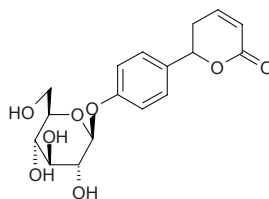
[6466-67-7] $C_{15}H_{20}O_4$ (264.32). mp 225~226°C. Source: LUO SUI TUN CAO *Ambrosia psilostachya*, TUN CAO *Ambrosia artemisiifolia*. Ref: 526, 1521.

**18084 Psilotic acid**

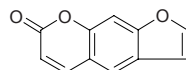
$C_{11}H_{10}O_3$ (190.20). Source: SHI SHUA BA *Psilotum nudum*. Ref: 3554.

**18085 Psilotin**

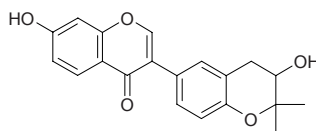
[4624-52-6] $C_{17}H_{20}O_8$ (352.34). mp 130~131°C. Source: SHI SHUA BA *Psilotum nudum*. Ref: 6.

**18086 Psoralen**

7*H*-Furo[3,2-g][1]benzopyran-7-one; Ficusin [66-97-7] $C_{11}H_6O_3$ (186.17). mp 171°C; 189~190°C. Pharm: Antibacterial (*Mycobacterium tuberculosis*); antineoplastic; hemostatic; photosensitizer; antioxidant (DPPH scavenger, $EC_{50} > 50\mu\text{g/mL}$, $50\mu\text{g/mL}$ InRt = 41%, control Ascorbic acid, $EC_{50} = 1.6\mu\text{g/mL} = 9.1\mu\text{mol/L}$)^[4154]; LD₅₀ (mus, orl) = 625mg/kg, (mus, sc) = 480mg/kg, (rat, orl) = 1330mg/kg, (rat, sc) = 830mg/kg. Source: BAI HUA QIAN HU *Peucedanum praeruptorum*, BEI SHA SHEN *Glehnia littoralis* (root: mean content of 6 origins = 0.00125%^[5508]), BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: content scope = 0.23%~0.98%^[5501], mean content of 10 origins = 0.420%^[5508]), CHOU CAO *Ruta graveolens* (whole herb: mean content of 2 origins = 0.192%^[5508]), CU YE RONG *Ficus simplicissima* (root: content = 0.062%^[5508]), DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*] (dried root: content = 0.0012%^[5508]), RUAN MAO DU HUO *Heracleum lanatum*, WU HUA GUO *Ficus carica*. Ref: 2, 4, 5, 268, 658, 4154, 5501, 5508.

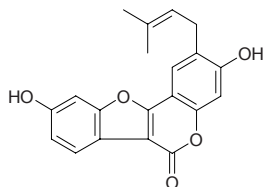
**18087 Psoralenol**

[70522-30-4] $C_{20}H_{18}O_5$ (338.36). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2, 545.

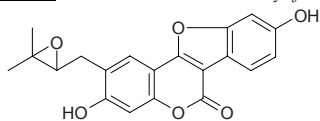


18088 Psoralidin

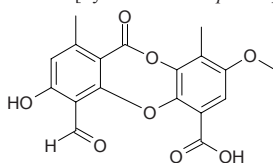
[18642-23-4] C₂₀H₁₆O₅ (336.35). mp 292°C (dec). **Pharm:** Antifungal; protein tyrosine phosphatase 1B (PTP1B) inhibitor (IC₅₀ = (9.4±0.5)μmol/L, control RK-682, IC₅₀ = 5.0μmol/L)^[5049]; cytotoxic (SNU-1, IC₅₀ = 53μg/mL, SNU-16, IC₅₀ = 203μg/mL). **Source:** BU GU ZHI *Psoralea corylifolia* (dried ripe fruit: mean content of 7 origins = 1.502%^[5508]). **Ref:** 2, 545, 1161, 1167, 5049, 5508.

**18089 Psoralidin-2',3'-oxide**

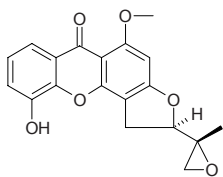
C₂₀H₁₆O₆ (352.35). Needles (EtOH, diacetate), mp 232~234°C (diacetate). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 3555.

**18090 Psoromic acid**

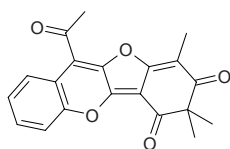
[7729-11-8] C₁₈H₁₄O₈ (358.31). mp 265°C. **Source:** TAI BAI HUA *Cladonia stellaris* [Syn. *Cladonia alpestris*]. **Ref:** 6.

**18091 Psorospermin**

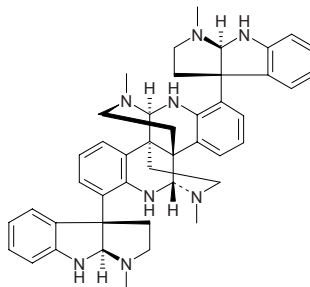
[74045-97-9] C₁₉H₁₆O₆ (340.34). Acicular crystals, mp 227~228°C. **Pharm:** Antineoplastic (mus P₃₈₈, *in vivo*, 8mg/kg, biotic prolonged rate = 58%); cytotoxic (KB, ED₅₀ = 0.1μg/mL). **Source:** PU SUO MU *Psorospermum febrifugum*. **Ref:** 5, 658.

**18092 Psorothamnone A**

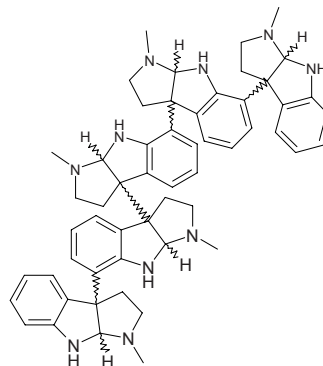
[208105-38-8] C₂₀H₁₆O₅ (336.35). Orange needles (EtOAc), mp 247~248°C (dec). **Pharm:** Protein kinase C inhibitor (IC₅₀ = 12μg/mL). **Source:** DENG XIN DAI ER DOU *Psorothamnus junceus*. **Ref:** 3656.

**18093 Psycholeine**

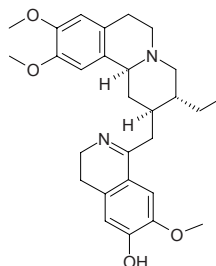
[144424-79-3] C₄₄H₅₀N₈ (690.94). [α]_D²⁰ = -150° (c = 0.4, alcohol). **Pharm:** Somatostatin antagonist. **Source:** YOU GAN LAN JIU JIE *Psychotria oleoides*. **Ref:** 3657, 3658.

**18094 Psychotridine**

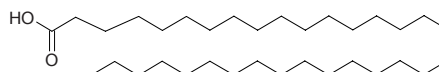
[51617-25-1] C₅₅H₆₂N₁₀ (863.17). **Pharm:** Anthelmintic; antitrypanosomal (*in vitro*). **Source:** BI CHUAN JIU JIE MU *Psychotria beccaroides*. **Ref:** 658.

**18095 Psychotrine**

[7633-29-6] C₂₈H₃₆N₂O₄ (464.61). **Pharm:** Antiamebic; antitussive (dispels phlegm); emetic. **Source:** AN GE LA BA JIAO FENG *Alangium lamarkii*. **Ref:** 658.

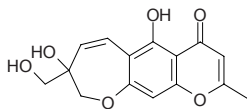
**18096 Psyllic acid**

C₃₃H₆₆O₂ (494.89). mp 94~95°C. **Source:** MI LA *Apis cerana*. **Ref:** 6.

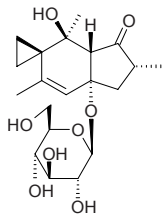


18097 Ptaeroglycol

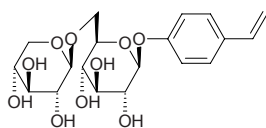
[18836-12-9] C₁₅H₁₄O₆ (290.28). Yellowish amorphous solid (alcohol), mp 234°C. **Pharm:** Cytotoxic (HeLa, ID₅₀ = 5 μg/mL); Antibacterial (5 mg/mL, *Staphylococcus aureus*, *Bacillus globisporus*). **Source:** BEI FEN NAI AO LE MU *Cneorum pulverulentum*, *Ptaeroxylon obliquum*. **Ref:** 1035, 3715, 3716, 3717.

**18098 Ptaquiloside**

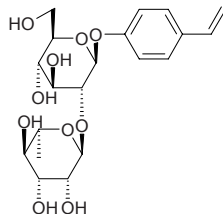
Aquilide A [87625-62-5] C₂₀H₃₀O₈ (398.46). Amorphous powder, mp 85–89°C, [α]_D²² = -188° (c = 1.00, MeOH). **Pharm:** Potent carcinogen. **Source:** JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*], WEI YE XI ZI JUE *Monachosorum flagellare*, WAN JUE *Dennstaedtia scabra* [Syn. *Dicksonia scabra*], CU MAO LIN GAI JUE *Microlepia strigosa* [Syn. *Trichomanes strigosa*], JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*], JUE *Pteridium aquilinum* var. *latiusculum*, FENG WEI JUE *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*]. **Ref:** 1521, 3102, 2931, 3556, 3557.

**18099 Ptelatoside A**

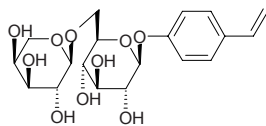
[90899-20-0] C₁₉H₂₆O₁₀ (414.41). Crystals (Me₂CO aq.), mp 183–185°C, [α]_D²² = -104° (c = 0.68, H₂O). **Source:** OU ZHOU JUE *Pteridium aquilinum*. **Ref:** 3556.

**18100 Ptelatoside B**

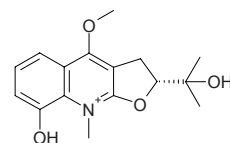
[90852-99-6] C₂₀H₂₈O₁₀ (428.44). Amorphous, [α]_D²³ = -94.8° (c = 1, H₂O). **Source:** OU ZHOU JUE *Pteridium aquilinum*. **Ref:** 3556.

**18101 Ptelatoside C**

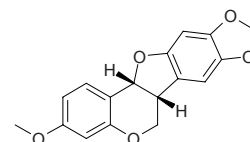
[98755-18-1] C₁₉H₂₆O₁₀ (414.41). Amorphous powder, [α]_D²² = -67.3° (c = 0.79, H₂O). **Source:** OU ZHOU JUE *Pteridium aquilinum*. **Ref:** 3557, 3556.

**18102 Pteleatin**

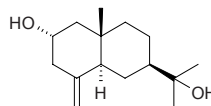
[34443-73-7] C₁₆H₂₀NO₄⁺ (290.34). **Pharm:** Antibacterial (*Mycobacterium smegmatis* and *Staphylococcus aureus*, chloride); antifungal (*Candida albicans*, chloride). **Source:** YU JU *Ptelea trifoliata*. **Ref:** 658.

**18103 Pterocarpin**

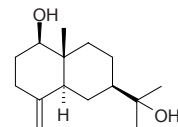
[524-97-0] C₁₇H₁₄O₅ (298.30). mp (+) 159–160°C, (-) 164–165°C, (±) 185–186°C. **Pharm:** Antineoplastic (S₁₈₀); antifungal (*Curvularia lunata*, 20 μg/mL, InRt > 50%); hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100 μmol/L, InRt = (14.6 ± 0.5)%, weak, control Silybin, 100 μmol/L, InRt = (77.0 ± 5.5)%)^[4095]. **Source:** SI ZI TAN *Pterocarpus santalinus*, ZI TAN *Pterocarpus indicus*, E SUN ZI TAN *Pterocarpus osun*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], GUANG BU DING GONG TENG *Erycibe expansa*. **Ref:** 5, 6, 658, 4095, 5505.

**18104 Pterocarpol**

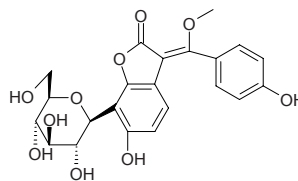
[21677-80-5] C₁₅H₂₆O₂ (238.37). mp 104–105°C. **Source:** ZI TAN *Pterocarpus indicus*. **Ref:** 6.

**18105 Pterocarpus marsupium sesquiterpene**

C₁₅H₂₆O₂ (238.37). **Source:** NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). **Ref:** 3789.

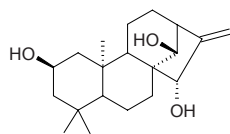
**18106 Pterisoauroside**

3-(α -Methoxy-4-hydroxybenzylidene)-6-hydroxybenzo-(2*H*)-furanone-7-*C*- β -*D*-glucopyranoside C₂₂H₂₂O₁₀ (446.41). Light yellow crystals, mp 197–199°C, [α]_D²⁹ = +11.4° (c = 0.07, MeOH). **Source:** NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). **Ref:** 3789.

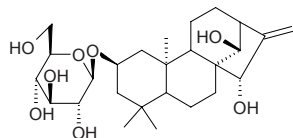


18107 Pterokaurane P₁

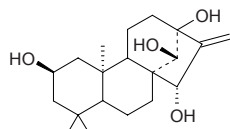
$C_{20}H_{32}O_3$ (320.48). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**18108 Pterokaurane P₁-2-O-β-D-glucoside**

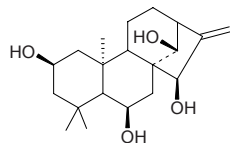
$C_{26}H_{42}O_8$ (482.62). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**18109 Pterokaurane P₂**

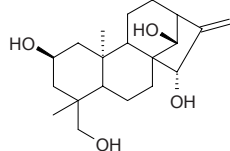
$C_{20}H_{32}O_4$ (336.48). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**18110 Pterokaurane P₃**

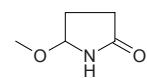
$C_{20}H_{32}O_4$ (336.48). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**18111 Pterokaurane P₄**

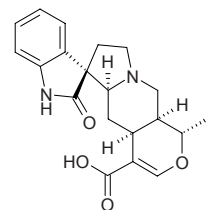
$C_{20}H_{32}O_4$ (336.48). Source: LI BING FENG WEI JUE *Pteris plumbea*. Ref: 3155.

**18112 Pterolactam**

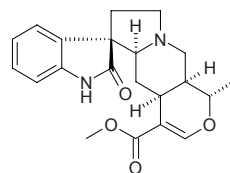
[63853-74-7] $C_5H_9NO_2$ (115.13). mp 56~57°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6.

**18113 Pteropodic acid**

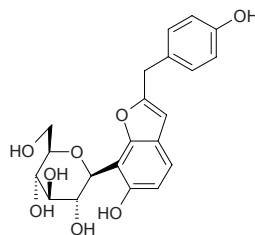
$C_{20}H_{22}N_2O_4$ (354.41). mp 227~229°C (dec), $[\alpha]_D = -126^\circ$ ($c = 0.1$, MeOH). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 3558, 5341.

**18114 Pteropodine**

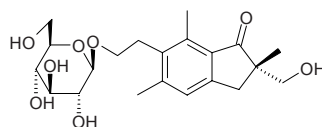
Uncarine C [5629-60-7] $C_{21}H_{24}N_2O_4$ (368.43). White acicular crystals, $[\alpha]_D^{17} = -123.8^\circ$ (chloroform). Pharm: Enhances phagocytic function (*in vitro*)^[900]; cytotoxic (SK-MEL, KB, BT549, SK-OV-3 and Vero cell lines)^[5341]; cytotoxic (mammalian cell lines, $IC_{50} = 17\sim 51\mu g/mL$)^[5341]; cytotoxic and DNA damaging activity (RS321 yeast assay, $IC_{12} = 140\mu g/mL$; RS322 yeast assay, $IC_{12} = 120\mu g/mL$)^[5341]; immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines)^[5341]; CNS activity (positively modulates both 5-HT2 receptor and muscarinic M1 receptor)^[5341]. Source: BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria perrottetii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. Ref: 900, 5341.

**18115 Pteroside**

6-Hydroxy-2-(4-hydroxybenzyl)-benzofuran-7-C-β-D-glucopyranoside $C_{21}H_{22}O_8$ (402.40). Light brown crystals ($H_2O:MeOH = 19:1$), mp 117~118°C, $[\alpha]_D^{29} = +9.15^\circ$ ($c = 0.295$, MeOH). Source: NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). Ref: 3789.

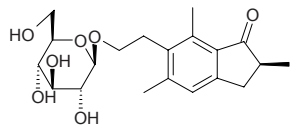
**18116 Pteroside A**

[35910-15-7] $C_{21}H_{30}O_8$ (410.47). Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

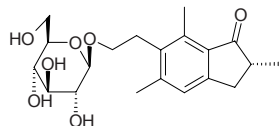


18117 (2S)-Pteroside B

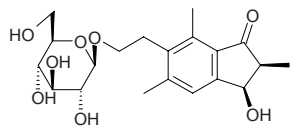
$C_{20}H_{28}O_7$ (380.44). mp 164~166°C, $[\alpha]_D = -13.6^\circ$. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 3559.

**18118 Pteroside B**

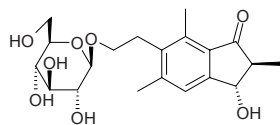
[29774-74-1] $C_{20}H_{28}O_7$ (380.44). mp 119~121°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18119 (2S,3R)-Pteroside C**

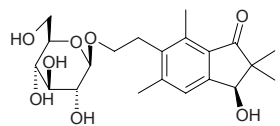
$C_{20}H_{28}O_8$ (396.44). Amorphous. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 3559.

**18120 Pteroside C**

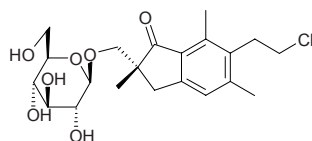
[35910-17-9] $C_{20}H_{28}O_8$ (396.44). Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18121 Pteroside D**

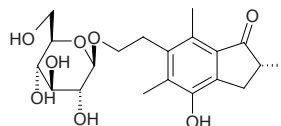
[35943-38-5] $C_{21}H_{30}O_8$ (410.47). Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18122 (2S)-Pteroside K**

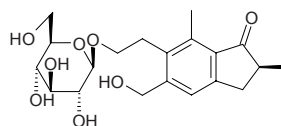
[69753-96-4] $C_{21}H_{29}ClO_7$ (428.91). mp 94~96°C, $[\alpha]_D = -26.4^\circ$. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 3559.

**18123 Pteroside M**

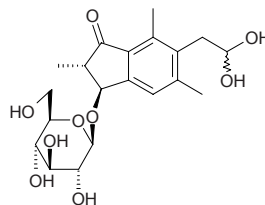
[52715-92-1] $C_{20}H_{28}O_8$ (396.44). Crystals (EtOH), mp 192°C, $[\alpha]_D^{18} = +129^\circ$ ($c = 1.2$, Me₂CO aq.). Source: XIAO YE JI WEI *Onychium japonicum* [Syn. *Tricomanes japonicum*]. Ref: 1521, 3560.

**18124 Pteroside P**

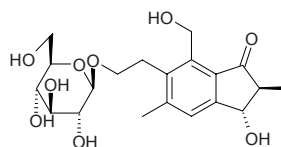
[54854-88-5] $C_{20}H_{28}O_8$ (396.44). Crystals (CHCl₃-MeOH), mp 191~193°C, $[\alpha]_D = -14.9^\circ$ (MeOH). Source: OU ZHOU JUE *Pteridium aquilinum*. Ref: 3559.

**18125 Pteroside Q**

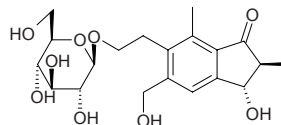
[54797-08-9] $C_{20}H_{28}O_9$ (412.44). Syrup, $[\alpha]_D^{25} = +24^\circ$ ($c = 1$, MeOH). Source: LI JUE *Histiopteris incisa*, SAN CHA FENG WEI JUE *Pteris wallichinan*, XIE YU FENG WEI JUE *Pteris oshimensis*. Ref: 1521, 3561.

**18126 Pteroside S**

[62043-50-9] $C_{20}H_{28}O_9$ (412.44). Source: BIAN YI FENG WEI JUE *Pteris inaequalis*, JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. Ref: 1521, 3562.

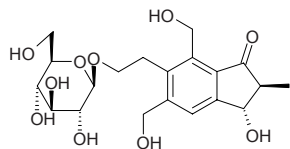
**18127 Pteroside T**

[62043-51-0] $C_{20}H_{28}O_9$ (412.44). Crystals, mp 118~121°C, $[\alpha]_D^{22} = +33^\circ$ ($c = 1.2$, MeOH). Source: BIAN YI FENG WEI JUE *Pteris inaequalis*, JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. Ref: 1521, 3562.

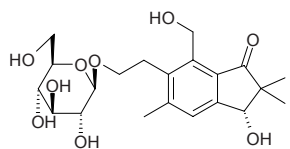


18128 Pteroside U

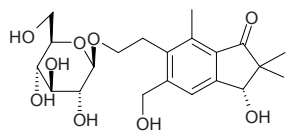
[62043-52-1] C₂₀H₂₈O₁₀ (428.44). Crystals, mp 149–151°C, [α]_D²² = +2.3° (c = 0.865, MeOH). [Source](#): JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. [Ref](#): 1521, 3562.

**18129 Pteroside W**

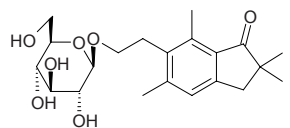
[62043-48-5] C₂₁H₃₀O₉ (426.47). [Source](#): JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. [Ref](#): 3562.

**18130 Pteroside X**

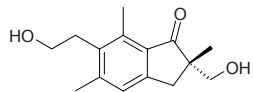
[62043-49-6] C₂₁H₃₀O₉ (426.47). Syrup, [α]_D²¹ = –10.3° (c = 0.58, MeOH). [Source](#): JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. [Ref](#): 3562.

**18131 Pteroside Z**

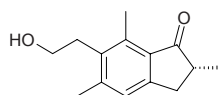
[35943-37-4] C₂₁H₃₀O₇ (394.47). [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18132 Pterosin A**

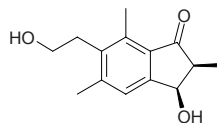
[35910-16-8] C₁₅H₂₀O₃ (248.32). mp 125–127°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18133 Pterosin B**

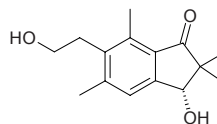
[34175-96-7] C₁₄H₁₈O₂ (218.30). mp 109–110°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18134 Pterosin C**

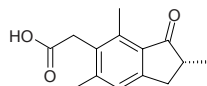
C₁₄H₁₈O₃ (234.30). mp 153–156°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18135 Pterosin D**

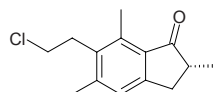
[61138-81-6] C₁₅H₂₀O₃ (248.32). mp 189–190°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18136 Pterosin E**

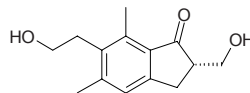
[52528-78-6] C₁₄H₁₆O₃ (232.28). mp 160–162°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18137 Pterosin F**

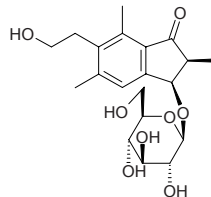
[34175-98-9] C₁₄H₁₇ClO (236.74). mp 66–67°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18138 Pterosin G**

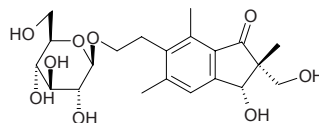
[35964-50-2] C₁₄H₁₈O₃ (234.30). mp 152–153°C. [Source](#): JUE *Pteridium aquilinum* var. *latiusculum*. [Ref](#): 6, 1521.

**18139 Pterosin C-3-O-glucoside**

C₂₀H₂₈O₈ (396.44). [Source](#): FENG WEI CAO *Pteris multifida*. [Ref](#): 3563.

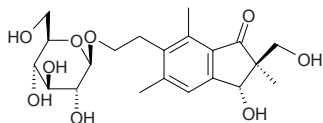
**18140 2R,3R-Pterosin L-2'-O-β-D-glucoside**

C₂₁H₃₀O₉ (426.47). Oil, [α]_D = +18.4°. [Source](#): JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. [Ref](#): 3564.

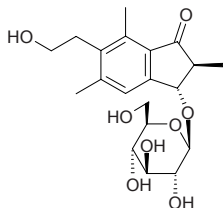


18141 2*S*,3*R*-Pterosin L-2'-*O*- β -D-glucoside

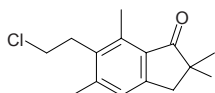
$C_{21}H_{30}O_9$ (426.47). Syrup, $[\alpha]_D^{23} = -19.0^\circ$ ($c = 1.21$, MeOH). Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 3564.

**18142 2*S*,3*S*-Pterosin C-3-*O*- β -D-glucoside**

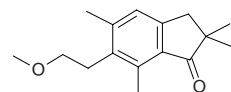
$C_{20}H_{28}O_8$ (396.44). Source: CU MAO LIN GAI JUE *Microlepia strigosa* [Syn. *Trichomanes strigosa*]. Ref: 3565.

**18143 Pterosin H**

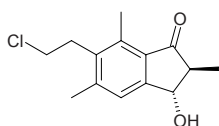
Hypolepin A [39004-41-6] $C_{15}H_{19}ClO$ (250.77). mp 87.5~88°C. Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 2931.

**18144 Pterosin I**

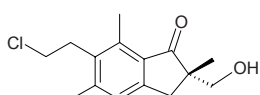
Hypolepin C $C_{16}H_{22}O_2$ (246.35). Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*]. Ref: 2931.

**18145 Pterosin J**

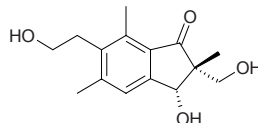
[41411-02-3] $C_{14}H_{17}ClO_2$ (252.74). mp 136~137°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18146 Pterosin K**

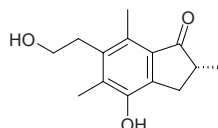
[41411-03-4] $C_{15}H_{19}ClO_2$ (266.77). mp 85~87°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18147 Pterosin L**

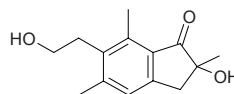
[41411-04-5] $C_{15}H_{20}O_4$ (264.32). mp 139~141°C. Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 1521.

**18148 Pterosin M**

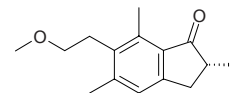
[52744-25-9] $C_{14}H_{18}O_3$ (234.30). Crystals (H_2O or EtOAc), mp 187°C. Source: XIAO YE JI WEI *Onychium japonicum* [Syn. *Trichomanes japonicum*]. Ref: 1521, 3560.

**18149 Pterosin N**

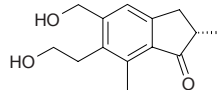
[54797-11-4] $C_{14}H_{18}O_3$ (234.30). Crystals (Me_2CO), mp 165~167°C, $[\alpha]_D = -18.8^\circ$ (MeOH). Source: JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 1521, 2732.

**18150 Pterosin O**

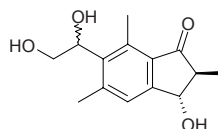
[54854-89-6] $C_{15}H_{20}O_2$ (232.33). Crystals (hexane), mp 45~46°C; oil, $[\alpha]_D = -14.1^\circ$ ($CHCl_3$). Source: CU MAO LIN GAI JUE *Microlepia strigosa* [Syn. *Trichomanes strigosa*], FENG WEI CAO *Pteris multifida*, JIN JI WEI *Pteris dactylina*, OU ZHOU JUE *Pteridium aquilinum*. Ref: 1521, 2732, 3563.

**18151 Pterosin P**

[56374-2-2] $C_{14}H_{18}O_3$ (234.30). Crystals ($CHCl_3-C_6H_6$), mp 115~117°C, $[\alpha]_D = +4.6^\circ$ (MeOH). Source: OU ZHOU JUE *Pteridium aquilinum*. Ref: 3559.

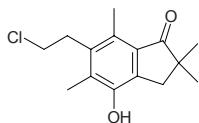
**18152 Pterosin Q**

[54797-09-0] $C_{14}H_{18}O_4$ (250.30). Syrup, $[\alpha]_D^{25} = +90^\circ$ ($c = 1$, MeOH). Source: LI JUE *Histiopteris incisa*, JIN JI WEI *Pteris dactylina*, XIE YU FENG WEI JUE *Pteris oshimensis*. Ref: 1521, 3563.

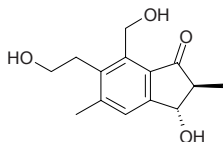


18153 Pterosin R

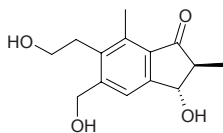
[76947-56-3] C₁₅H₁₉ClO₂ (266.77). mp 199.5~200°C. Source: JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*]. Ref: 2932.

**18154 Pterosin S**

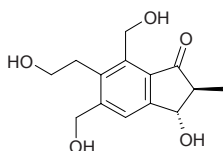
[56227-00-0] C₁₄H₁₈O₄ (250.30). mp 118~119°C, [α]_D²⁵ = +71° (c = 0.53, MeOH). Source: DA YE JING KOU BIAN CAO *Pteris cretica*, FENG WEI CAO *Pteris multifida*, FENG WEI JUE *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], *Pteris livida*, *Eriosorus flexuosus*, *Jamesonia scammanae*. Ref: 1521, 3563.

**18155 Pterosin T**

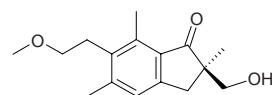
[56227-01-1] C₁₄H₁₈O₄ (250.30). Syrup, [α]_D²⁴ = +91° (c = 1, MeOH). Source: CHANG BING FENG WEI JUE *Pteris bella*, PING YU FENG WEI JUE *Pteris kiuschiuensis*, XIAN YU FENG WEI JUE *Pteris linearis*. Ref: 1521.

**18156 Pterosin U**

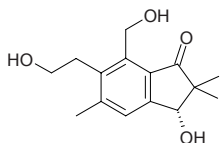
[56227-02-2] C₁₄H₁₈O₅ (266.30). mp 129~130°C, [α]_D²¹ = +73.1° (c = 0.47, MeOH). Source: PING YU FENG WEI JUE *Pteris kiuschiuensis*. Ref: 1521.

**18157 Pterosin V**

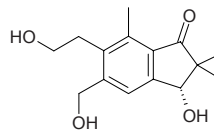
[56670-45-2] C₁₆H₂₂O₃ (262.35). Oil, [α]_D²² = -4° (c = 0.69, MeOH). Source: WAN JUE *Dennstaedtia scabra* [Syn. *Dicksonia scabra*]. Ref: 2929, 2931.

**18158 Pterosin W**

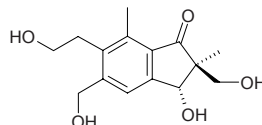
[62043-46-3] C₁₅H₂₀O₄ (264.32). Syrup, [α]_D²¹ = +51.2° (c = 0.215, MeOH). Source: JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. Ref: 3562.

**18159 Pterosin X**

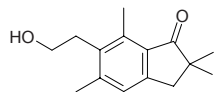
[62043-47-4] C₁₅H₂₀O₄ (264.32). Syrup, [α]_D²¹ = +31.1° (c = 0.29, MeOH). Source: FENG YA JUE *Coniogramme japonica* [Syn. *Hemionitis japonica*], JIN CHAI FENG WEI JUE *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*]. Ref: 3562, 2932.

**18160 Pterosin Y**

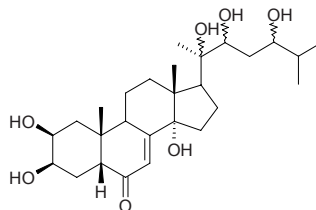
[76947-59-6] C₁₅H₂₀O₅ (280.32). Oil, [α]_D¹⁵ = +62.2° (c = 1.35, MeOH). Source: FENG YA JUE *Coniogramme japonica* [Syn. *Hemionitis japonica*]. Ref: 2932.

**18161 Pterosin Z**

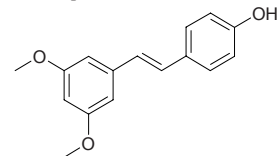
[34169-69-2] C₁₅H₂₀O₂ (232.33). mp 86~88°C. Source: JI JUE *Hypolepis punctata* [Syn. *Polypodium punctatum*], JIN MAO GOU *Cibotium barometz* [Syn. *Polypodium barometz*], JUE *Pteridium aquilinum* var. *latiusculum*. Ref: 6, 2732, 2931, 3102.

**18162 Pterosterone**

2,3,14,20,22,24-Hexahydroxycholest-7-en-6-one [18089-44-6] C₂₇H₄₄O₇ (480.65). Crystals +H₂O, mp 229~230°C, [α]_D = +7.4° (MeOH). Pharm: Insect ecdysone (molting hormone). Source: BEI MEI QIU ZI JUE *Onoclea sensibilis*, CANG BAI CHENG GOU FENG *Diploclisia glaucescens*, JUE *Pteridium aquilinum* var. *latiusculum*, LUO YAN CAO *Lemmaphyllum microphyllum*, XIAO YE GUAN ZHONG *Matteuccia struthiopteris*, *Vitex megapotamica*, *Lastrea thelpteris*. Ref: 6, 658, 660, 1521.

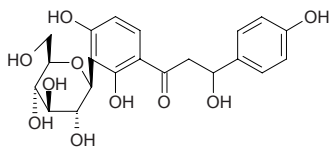
**18163 Pterostilbene**

[537-42-8] C₁₆H₁₆O₃ (256.30). mp 86°C. Pharm: Antifungal. Source: JIAN YE LONG XUE SHU *Dracaena cochinchinensis*, PU⁽²⁾ TAO *Vitis vinifera*, QI LIN JIE *Daemonorops draco* (balsam: mean content = 1.03%)^[5508], SI ZI TAN *Pterocarpus santalinus*, ZI TAN *Pterocarpus indicus*. Ref: 6, 616, 658, 1521, 5508.

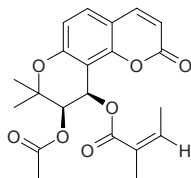


18164 Pterosupin

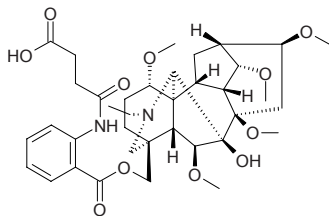
[81861-73-6] C₂₁H₂₄O₁₀ (436.42). mp 165~167°C (benzene-EtOAc), [α]_D²⁶ = +51° (c = 0.21, MeOH). **Pharm:** Antihypercholesterolemic (hypercholesterolemic rat caused by meals, markedly reduces the level of cholesterol, LDL in serum, LDL, triglyceride and index of artery atherosclerosis, increases the level of and ratio between HDL and all-cholesterol). **Source:** NANG ZHUANG ZI TAN *Pterocarpus marsupium*. **Ref:** 3659, 3660.

**18165 Pteryxin**

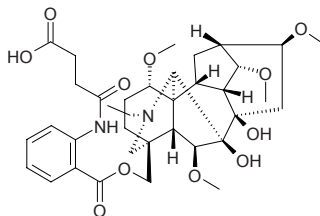
[13161-75-6] C₂₁H₂₂O₇ (386.41). mp 82°C; 87~88°C. **Pharm:** Anti-atherosclerotic; antihypercholesterolemic (reduces the level of cholesterol and lecithin in serum); antispasmodic (rbt and mus intestine, induced by BaCl₂, relaxes uterus *in vitro*); fish toxin; antihypertensive; slows heart rate; coronary vasodilator (increases coronary flow). **Source:** BEI FANG DANG GUI *Angelica ursina*, JI JI QIN *Zizia aptera*, LI JIANG QIAN HU *Peucedanum govianum* var. *bicolor*, MI HUA YAN FENG *Libanotis condensata*, MIAN MAO XIE HAO *Seseli ericephalum*. **Ref:** 4, 557, 658.

**18166 Puberaconitidine**

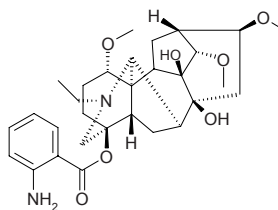
C₃₇H₅₂N₂O₁₁ (700.83). **Source:** NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*]. **Ref:** 660.

**18167 Puberaconitine**

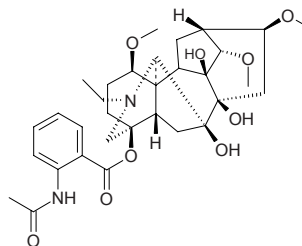
C₃₆H₅₀N₂O₁₁ (686.81). **Source:** NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*]. **Ref:** 660.

**18168 Puberanidine**

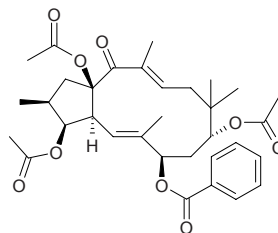
C₃₀H₄₂N₂O₇ (542.68). **Source:** BEI FANG WU TOU *Aconitum septentrionale*, GAN WAN WU TOU *Aconitum finetianum*, NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*]. **Ref:** 660, 1521.

**18169 Puberanine**

C₃₂H₄₄N₂O₉ (600.72). **Pharm:** Anti-inflammatory (modified assay of Berridge, 100µg/mL, InRt = 33.69%)^[5271]; tyrosinase inhibitor (IC₅₀ = (205.2±0.2)µmol/L, control Kojic acid, IC₅₀ = (16.67±0.52)µmol/L, L-Mimosine, IC₅₀ = (3.68±0.02)µmol/L)^[5271]; antioxidant (DPPH scavenger, 1µmol/L, ScRt = 12.2%; control 3-*t*-Butyl-4-hydroxyanisole, 1µmol/L, ScRt = 92.5%)^[5271]. **Source:** NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], *Aconitum leave* (aerial parts). **Ref:** 660, 1521, 5271.

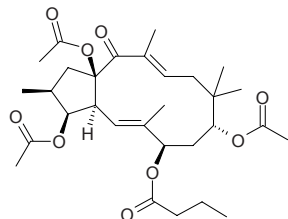
**18170 Pubescene A**

3β,9α,15β-Triacetoxo-7β-benzoyloxy-14-oxojatropha-5*E*,12*E*-diene C₃₃H₄₂O₉ (582.70). Amorphous solid, [α]_D²⁵ = -48° (c = 0.14, CHCl₃). **Pharm:** Cytotoxic (inhibits growth of hmn cancer cells, MCF7, GI₅₀ > 50µmol/L, control Doxorubicin, GI₅₀ = (42.8±8.2)µmol/L; NCI-H460, GI₅₀ = (31.7±2.4)µmol/L, Doxorubicin, GI₅₀ = (94.0±8.7)µmol/L; SF268, GI₅₀ > 50µmol/L, Doxorubicin, GI₅₀ = (93.0±7.0)µmol/L)^[5384]; multidrug resistance (MDR) reversing activities (16µmol/L, fluorescence intensity = 340.00, fluorescence activity ratio = 45.94, DMSO: 20µmol/L, fluorescence intensity = 5.84, fluorescence activity ratio = 0.78)^[4928]. **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4928, 5384.

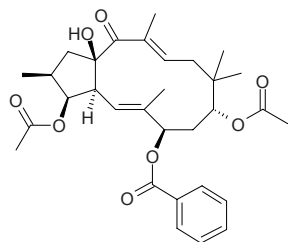


18171 Pubescene B

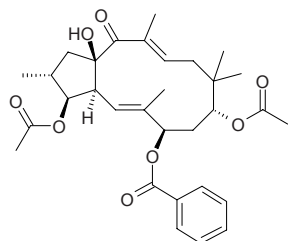
3 β ,9 α ,15 β -Triacetoxy-7 β -butyroyloxy-14-oxojatropha-5E,12E-diene C₃₀H₄₄O₉ (548.68). Amorphous solid, $[\alpha]_D^{25} = -20^\circ$ ($c = 0.13$, CHCl₃). **Pharm:** Cytotoxic (inhibits growth of hmn cancer cells, MCF7, GI₅₀ > 50 μ mol/L, control Doxorubicin, GI₅₀ = (42.8 \pm 8.2) μ mol/L; NCI-H460, GI₅₀ = (18.8 \pm 2.5) μ mol/L, Doxorubicin, GI₅₀ = (94.0 \pm 8.7) μ mol/L; SF268, GI₅₀ > 50 μ mol/L, Doxorubicin, GI₅₀ = (93.0 \pm 7.0) μ mol/L)^[5384]; Multidrug resistance (MDR) reversing activities (16 μ mol/L, fluorescence intensity = 142.67, fluorescence activity ratio = 19.76, DMSO: 20 μ mol/L, fluorescence intensity = 5.84, fluorescence activity ratio = 0.78)^[4928]. **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4928, 5384.

**18172 Pubescene C**

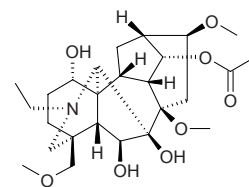
3 β ,9 α -Diacetoxy-7 β -benzoyloxy-15 β -hydroxy-14-oxojatropha-5E,12E-diene C₃₁H₄₀O₈ (540.66). Amorphous solid, $[\alpha]_D^{25} = -18^\circ$ ($c = 0.11$, CHCl₃). **Pharm:** Multidrug resistance (MDR) reversing activities (16 μ mol/L, fluorescence intensity = 122.20, fluorescence activity ratio = 16.51, DMSO: 20 μ mol/L, fluorescence intensity = 5.84, fluorescence activity ratio = 0.78)^[4928]; Cytotoxic (inhibits growth of hmn cancer cells, MCF7, GI₅₀ > 50 μ mol/L, control Doxorubicin, GI₅₀ = (42.8 \pm 8.2) μ mol/L; NCI-H460, GI₅₀ = (33.3 \pm 5.9) μ mol/L, Doxorubicin, GI₅₀ = (94.0 \pm 8.7) μ mol/L; SF268, GI₅₀ > 50 μ mol/L, Doxorubicin, GI₅₀ = (93.0 \pm 7.0) μ mol/L)^[5384]. **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4928, 5384.

**18173 Pubescene D**

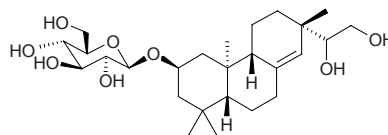
C₃₁H₄₀O₈ (540.66). Amorphous solid, $[\alpha]_D^{25} = +20.9^\circ$ ($c = 0.14$, CHCl₃). **Pharm:** Multidrug resistance (MDR) reversing activities (16 μ mol/L, fluorescence intensity = 243.71, fluorescence activity ratio = 32.93, DMSO: 20 μ mol/L, fluorescence intensity = 5.84, fluorescence activity ratio = 0.78). **Source:** DUAN ROU MAO DA JI *Euphorbia pubescens* (whole herb). **Ref:** 4928.

**18174 Pubescenine**

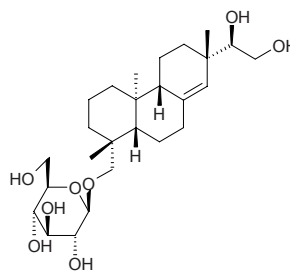
[116339-93-6] C₂₆H₄₁NO₈ (495.62). Crystals (EtOAc), mp 227–229°C, $[\alpha]_D = -1.3^\circ$ ($c = 0.15$, EtOH). **Source:** DUAN ROU MAO FEI YAN CAO *Consolida pubescens*. **Ref:** 1521.

**18175 Pubeside A**

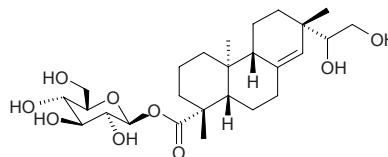
C₂₆H₄₄O₈ (484.64). mp 265–267°C, $[\alpha]_D^{26} = -36.78^\circ$ ($c = 0.2477$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00033%), XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. **Ref:** 9, 4764.

**18176 Pubeside B**

ent-(15R),16,19-Trihydroxypimar-8(14)-ene 19-*O*- β -D-glucopyranoside C₂₆H₄₄O₈ (484.64). White amorphous powder, $[\alpha]_D^{25} = -34.5^\circ$ ($c = 0.60$, MeOH); mp 257–260°C, $[\alpha]_D^{25} = -67.01^\circ$ ($c = 0.237$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00033%), XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. **Ref:** 9, 4438, 4764.

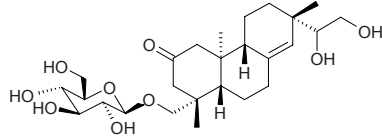
**18177 Pubeside C**

C₂₆H₄₂O₉ (498.62). mp 261–263°C, $[\alpha]_D^{26} = -9.6^\circ$ ($c = 0.626$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00033%), XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. **Ref:** 9, 4764.

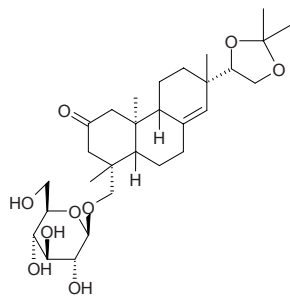


18178 Pubeside D

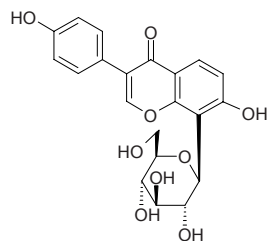
$C_{26}H_{42}O_9$ (498.62). mp 250~253°C. Source: XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.00047%), XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 9, 4764.

**18179 Pubeside E**

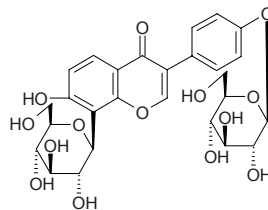
$C_{29}H_{46}O_9$ (538.68). mp 240~243°C. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 9.

**18180 Puerarin**

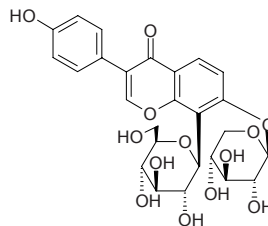
[3681-99-0] $C_{21}H_{20}O_9$ (416.39). mp 187°C (dec). Pharm: Antihypertensive (conscious hypertensive essential rat HER, 100mg/kg); antiarrhythmic (against ventricular premature beat and tachycardia); antiarrhythmic (rbt, 10mg/kg, induced by $CHCl_3$ -adrenalin); β -Adrenergic receptor blocker; anti-ischemia myocardial (rat, acute ischemia induced by hypophysin); improves barrier of microcirculation (mus, small intestine experiment); used in treatment of arterial blockage in retina; used in treatment of hypertension and angina pectoris (effective component in *Pueraria lobata* GE GEN); coronary vasodilator (increase of blood flow through coronary arteries, decrease of consumption of oxygen of cardiac muscle). Source: E MEI GE *Pueraria omeiensis* (root: mean content = 2.30%)^[5508], FEN GE *Pueraria lobata* var. *thomsonii* (root: mean content of 2 origins = 1.02%)^[5508], GAN GE TENG GEN *Pueraria thomsonii* (root: mean content of 2 origins = 1.03%)^[5508], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content = 3.19%)^[5508], HUANG MAO GE *Pueraria calycina* (root: content = 0.140%)^[5508], SAN LIE YE GE *Pueraria phaseoloides* (root: content = 2.92%)^[5508], SHI YONG GE *Pueraria edulis* (root: content = 0.25%)^[5508], YUN NAN GE TENG *Pueraria peduncularis* (root: content = 0.158%)^[5508], *Pueraria* spp. Ref: 4, 658, 660, 1521, 3113, 5501, 5508.

**18181 Puerarin-4'-O-D-glucoside**

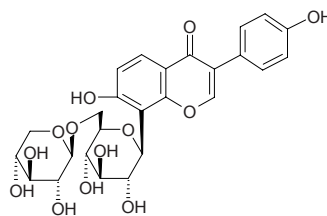
[117047-08-2] $C_{27}H_{30}O_{14}$ (578.53). mp 187°C, $[\alpha]_D^{22} = +28.8^\circ$ (NaOH aq.). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 1521, 3109.

**18182 Puerarin-xyloside I**

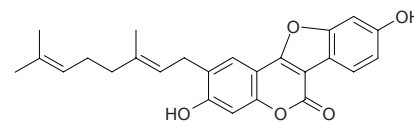
$C_{26}H_{28}O_{13}$ (548.51). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2.

**18183 Puerarin xyloside II**

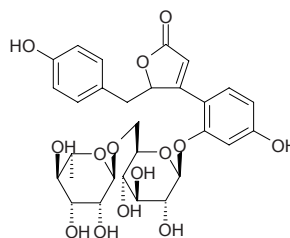
$C_{26}H_{28}O_{13}$ (548.51). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 1298.

**18184 Puerarol**

$C_{25}H_{24}O_5$ (404.47). Needles, mp 237°C (dec). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2, 1521, 3109.

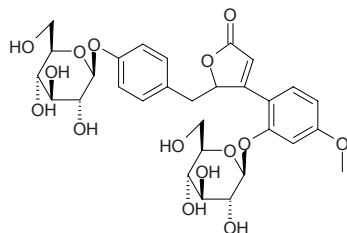
**18185 Pueroside A**

[100692-52-2] $C_{29}H_{34}O_{14}$ (606.59). Needles, mp 183~185°C, $[\alpha]_D = -107.5^\circ$ (MeOH). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 3566, 1521.

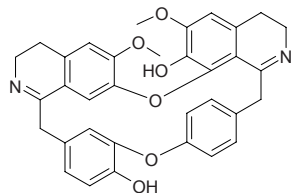


18186 Pueroside B

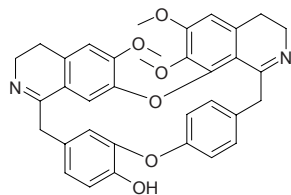
[100692-54-4] $C_{30}H_{36}O_{15}$ (636.61). Needles, mp 227~229°C, $[\alpha]_D = -37.6^\circ$ (MeOH). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 3566, 1521.

**18187 Puertogaline A**

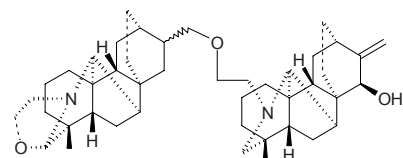
$C_{34}H_{30}N_2O_6$ (562.63). Amorphous, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.5$, $CHCl_3:MeOH = 3:1$). Pharm: Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, $IC_{50} = 136.3\mu g/mL$, $IC_{90} = 260.3\mu g/mL$). Source: *Guatteria boliviana* (stem cortex). Ref: 3976.

**18188 Puertogaline B**

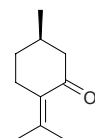
$C_{35}H_{32}N_2O_6$ (576.66). Amorphous, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.77$, $CHCl_3$). Pharm: Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, $IC_{50} = 43.9\mu g/mL$, $IC_{90} = 163.1\mu g/mL$); antimalarial (*Plasmodium falciparum* D6, $LC_{50} = 316.4ng/mL$, $SI = 15$; *Plasmodium falciparum* W2, $LC_{50} = 183.2ng/mL$, $SI = 26$); cytotoxic (KB, $LC_{50} = 4800ng/mL$). Source: *Guatteria boliviana* (stem cortex). Ref: 3976.

**18189 Pukeensine**

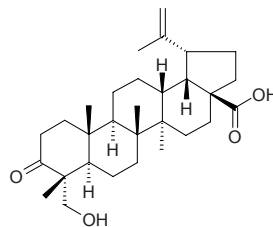
[144442-84-2] $C_{44}H_{64}N_2O_3$ (669.01). Amorphous powder. Source: PU GE WU TOU *Aconitum pukeense*. Ref: 229.

**18190 Pulegone**

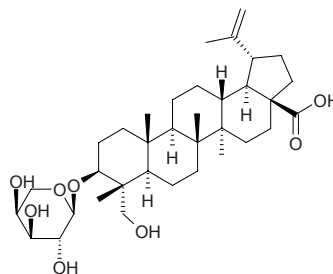
(R)-(+)-Pulegone [15932-80-6] $C_{10}H_{16}O$ (152.24). bp (+) 224°C, (-) 109°C/20mmHg. Pharm: Anti-inflammatory; uterine relaxant (oxytocin- and $PGF_{2\alpha}$ -stimulated contractions of isolated rat myometrium, oxytocin-stimulated, $IC_{50} = (21.8\pm 2.1)\mu g/mL$; $PGF_{2\alpha}$ -stimulated, $IC_{50} = (12.7\pm 4.6)\mu g/mL$)^[5066]. Source: CHAI HU *Bupleurum chinense*, HUA DONG LAN CI TOU *Echinops griesii*, JIN XIAN CAO *Glechoma longituba*, JIN ZHAN JU *Calendula officinalis*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], XI YANG SHEN *Panax quinquefolium*, YU XIANG CAO *Mentha rotundifolia*, CHUN E BO HE *Mentha pulegium*. Ref: 2, 11, 658, 660, 5066.

**18191 Pulsatillilic acid**

23-Hydroxy-3-oxo-20(29)-lupen-28-oic acid $C_{30}H_{46}O_4$ (470.70). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 2.

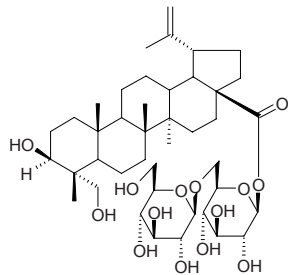
**18192 Pulsatilloside A**

3-O- α -L-Arabinopyranosyl-3 β ,23-dihydroxy-lup-20(29)-en-28-oic acid $C_{35}H_{56}O_8$ (604.83). Purity $\geq 98\%$, $[\alpha]_D^{20} = +102.5^\circ$ ($c = 0.15$, CH_3OH); amorphous powder, mp 160~165°C. Pharm: Anti-apoptosis (Protects PC12 Cells apoptosis Induced by sodium cyanide (NaCN, 10mmol/L) and glucose deprivation: MTT assay, control normal cells, survival rate = 100%, injured cells, survival rate = 73.9%, injured cells + 10.0 $\mu g/mL$ Pulsatilloside A, survival rate = 99.2%; LDH release assay, control normal cells, LDH activity = (71.4 \pm 5.3)unit/mL, injured cells, LDH activity = (134.4 \pm 1.1)unit/mL, injured cells + 10.0 $\mu g/mL$ Pulsatilloside A, LDH activity = (70.9 \pm 4.1)unit/mL; flow cytometry assay, control normal cells, apoptosis rate = (2.01 \pm 0.81)%, injured cells, apoptosis rate = (18.70 \pm 1.90)%, injured cells + 10.0 $\mu g/mL$ Pulsatilloside A, apoptosis rate = (4.64 \pm 0.96)%)^[5360]. Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 2, 9, 5360.

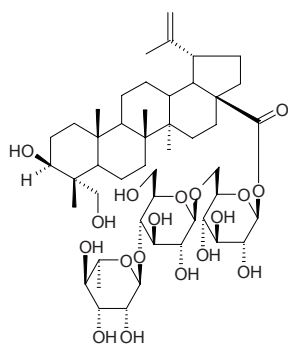


18193 Pulsatilloside B

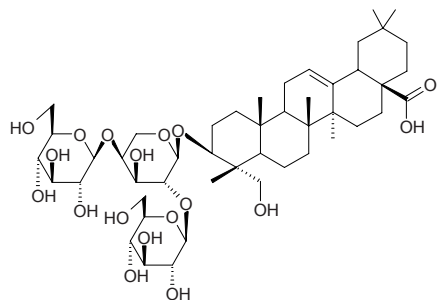
$C_{42}H_{68}O_{14}$ (797.00). Amorphous powder, mp 200–202°C. Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 9.

**18194 Pulsatilloside C**

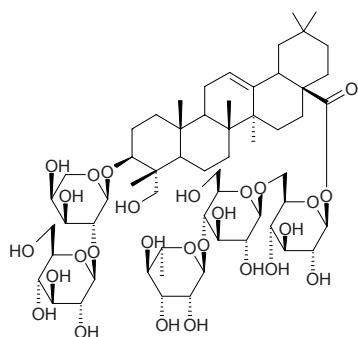
$C_{48}H_{78}O_{18}$ (943.15). Amorphous powder, mp 200–202°C, $[\alpha]_D^{25} = -8.3^\circ$ ($c = 0.522$, MeOH). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 9.

**18195 Pulsatilloside A**

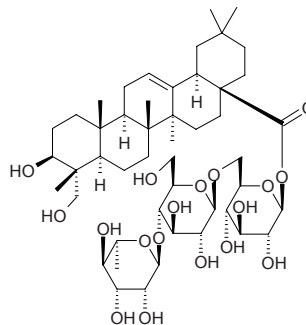
$C_{47}H_{76}O_{18}$ (929.12). Source: ZHONG E BAI TOU WENG *Pulsatilla campanella*. Ref: 3567, 3568.

**18196 Pulsatilloside B**

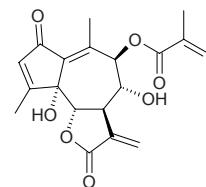
$C_{59}H_{96}O_{27}$ (1237.41). Source: ZHONG E BAI TOU WENG *Pulsatilla campanella*. Ref: 3567, 3568, 1521.

**18197 Pulsatilloside C**

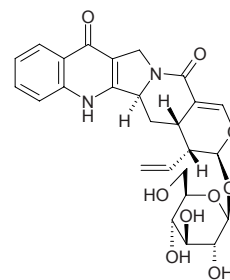
Kalopanaxsaponin G [57539-70-5] $C_{48}H_{78}O_{18}$ (943.13). Colorless amorphous powder, mp 190–195°C; colorless acicular crystals (watery ethanol), mp 213–215°C (dec), $[\alpha]_D = -2.8^\circ$ ($c = 0.3$, methanol). Pharm: Sedative (mus orl, 1mg/kg, inhibits spontaneous movement). Source: YE MU GUA *Stauntonia chinensis*. Ref: 900.

**18198 Pumilin**

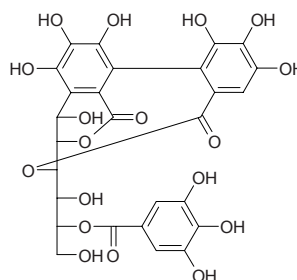
[1405-19-2] $C_{20}H_{22}O_7$ (374.39). mp 248–249°C (dec). Source: AI SHENG BO LAN DI *Berlandiera pumila*. Ref: 1521.

**18199 Pumiloside**

$C_{26}H_{28}N_2O_9$ (512.52). Colorless amorphous solid, mp 307–308°C (MeOH), $[\alpha]_D^{22} = -39.8^\circ$ ($c = 0.15$, MeOH); prisms, mp > 300°C. Source: DONG FANG WU TAN *Nauclea orientalis* (bark), DUAN XIAO SHE GEN CAO *Ophiorrhiza pumila*, LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), XI SHU *Camptotheca acuminata*. Ref: 1521, 3074, 4097, 4527.

**18200 Punicaortein A**

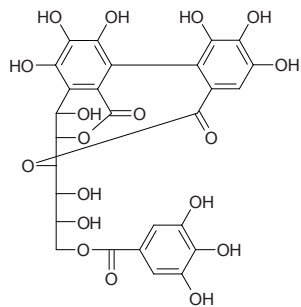
[103488-35-3] $C_{27}H_{22}O_{18}$ (634.47). Tan amorphous powder +0.5H₂O, $[\alpha]_D^{28} = -73.8^\circ$ ($c = 0.6$, MeOH). Source: SHI LIU PI *Punica granatum*. Ref: 3569, 3570.



18201 Punicacortein B

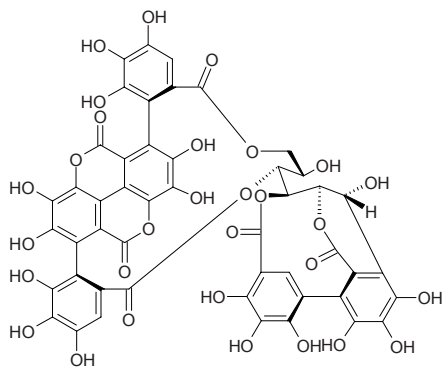
6-Galloyl-2,3-(*S*)-hexahydroxydiphenyl-*D*-glucose [103488-36-4] C₂₇H₂₂O₁₈ (634.47). Tan amorphous powder +0.5H₂O, [α]_D²⁸ = +11.9° (*c* = 0.5, MeOH).

Source: SHI LIU PI *Punica granatum*. Ref: 3569, 3570.

**18202 Punicacortein C**

[103488-37-5] C₄₈H₂₈O₃₀ (1084.74). Yellow amorphous powder, [α]_D²⁸ = -37.7°

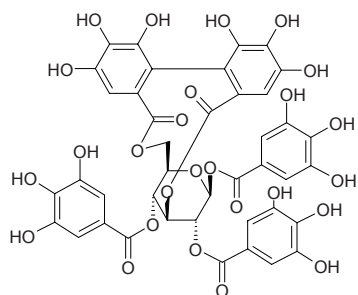
(*c* = 1.2, H₂O). Pharm: Cytotoxic (malanotic carcinoma RPMI-7951, ED₅₀ = 3.86 μg/mL); HIV reverse transcriptase inhibitor (IC₅₀ = 5 μmol/L, inhibits HIV replication); topoisomerase II inhibitor (IC₁₀₀ = 0.5 μmol/L); pesticide (dog roundworm larva). Source: QIAO MU ZHUANG LAN REN *Terminalia arborea*, SHI LIU PI *Punica granatum*. Ref: 3569, 3661, 3662, 1728, 1706, 3663.

**18203 Punicafolin**

[88847-11-4] C₄₁H₃₀O₂₆ (938.67). White powder, mp 235–237°C (dec), [α]_D²⁰ =

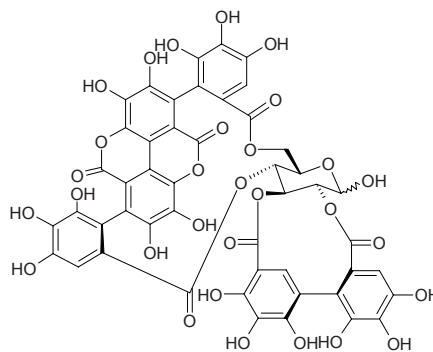
-59.5° (*c* = 0.4, methanol). Pharm: Hyaluronidase inhibitor (10 mmol/L, InRt = 96%); protein kinase C inhibitor (IC₅₀ = 4 μmol/L). Source: AN MO LE

Phyllanthus emblica (fruit juice)^[3094], ZE QI *Euphorbia helioscopia*, YE WU TONG *Mallotus japonicus*, SUAN SHI LIU *Punica granatum*. Ref: 900, 3094.

**18204 Punicalagin**

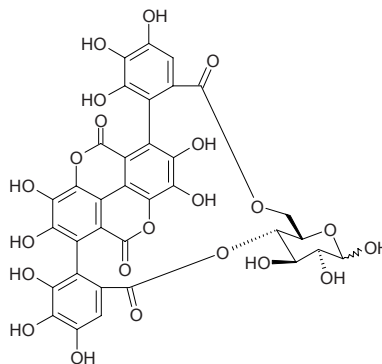
[65995-63-3] C₄₈H₂₈O₃₀ (1084.74). Yellow amorphous powder +1H₂O, [α]_D²⁰ = -181° (*c* = 1.0, H₂O), [α]_D²⁸ = +3.8° (*c* = 0.9, MeOH), anomeric mixture.

Pharm: Toxic to sheep and cattle. Source: SHI LIU PI *Punica granatum*, HE ZI *Terminalia chebula*. Ref: 3571, 3572, 3573, 3574.

**18205 Punicalin**

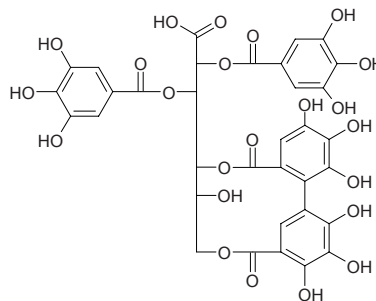
4,6-(*S,S*)-Gallagyl-*D*-glucose [65995-64-4] C₃₄H₂₂O₂₂ (782.54). Yellow amorphous powder +1H₂O, [α]_D²⁸ = -81.1° (*c* = 0.6, H₂O), anomeric mixture.

Source: SHI LIU PI *Punica granatum*. Ref: 3569.

**18206 Puniguconin**

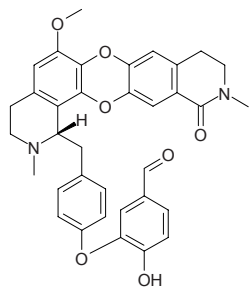
[103488-38-6] C₃₄H₂₆O₂₃ (802.57). Tan amorphous powder +2H₂O, [α]_D²⁵ =

+45.5° (*c* = 0.7, MeOH). Source: DA HUA ZI WEI *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*], SHI LIU PI *Punica granatum*. Ref: 3569, 3575.

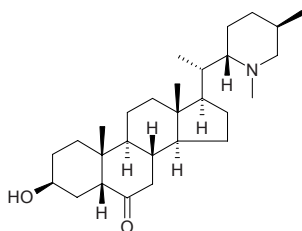


18207 Punjabine

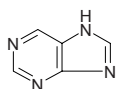
[84435-36-9] C₃₅H₃₂N₂O₇ (592.65). [α]_D²⁵ = -40° (c = 0.48, MeOH). Source: GOU QI XIAO BO *Berberis lycium*. Ref: 3576.

**18208 Puqietinone**

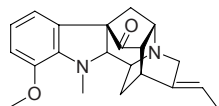
[133362-87-5] C₂₈H₄₇NO₂ (429.69). mp 240~245°C, [α]_D = +29.4° (c = 0.64, CHCl₃). Source: PU QI BEI MU *Fritillaria puqiensis*. Ref: 2201.

**18209 Purine**

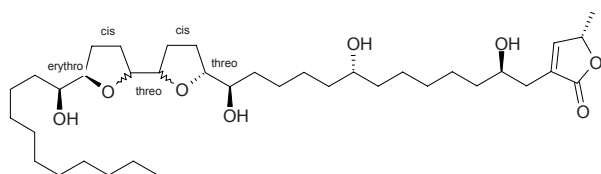
7*H*-Imidazo[4,5-*d*]pyrimidine [120-73-0] C₅H₄N₄ (120.11). mp 216~217°C. Source: LUO HUA SHENG *Arachis hypogaea*. Ref: 6.

**18210 Purpeline**

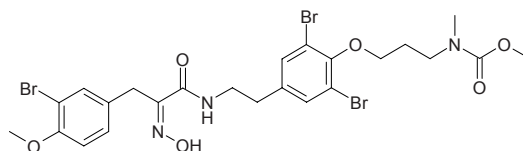
[2246-33-5] C₂₁H₂₄N₂O₂ (336.44). Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, KE MING XI LUO FU MU *Rauwolfia cumminsi*. Ref: 1521.

**18211 Purpuracenin**

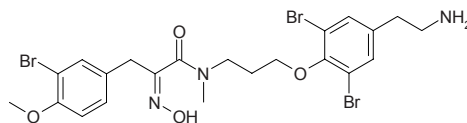
[227086-12-6] C₃₇H₆₆O₈ (638.93). Yellowish wax, mp 42~44°C, [α]_D = +26° (c = 0.1, MeOH). Pharm: Cytotoxic (A549, ED₅₀ = 0.048 μg/mL; A498, ED₅₀ < 0.001 μg/mL; PC3, ED₅₀ < 0.001 μg/mL; BST, LC₅₀ = 3.0 μg/mL). Source: ZI FAN LI ZHI *Annona purpurea*. Ref: 3748.

**18212 Purpuramine K**

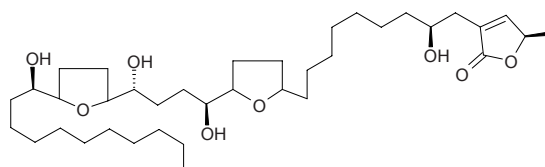
C₂₄H₂₈Br₃N₃O₆ (694.22). White solid, mp 190~195°C. Pharm: Antibacterial (disk susceptibility tests, standard NCCLS method, 50 μg/disk (control 30 μg/disk), gram-positive bacteria: *Staphylococcus aureus*, DIZ = 10mm, positive control Kanamycin, DIZ = 10mm, *Bacillus subtilis*, DIZ = 10mm, positive control Kanamycin, DIZ = 18mm, *Bacillus sphaericus*, DIZ = 9mm, positive control Kanamycin, DIZ = 20mm; gram-negative bacteria: *Chromobacterium violaceum*, DIZ = 8mm, positive control Kanamycin, DIZ = 17mm, *Klebsiella aerogenes*, DIZ = 11mm, positive control Kanamycin, DIZ = 15mm, *Pseudomonas aeruginosa*, DIZ = 12mm, positive control Kanamycin, DIZ = 27mm). Source: ZI SHA ROU HAI MIAN *Psammaphysilla purpurea*. Ref: 4372.

**18213 Purpuramine L**

C₂₂H₂₆Br₃N₃O₄ (636.18). White solid, mp 175~178°C. Pharm: Antibacterial (disk susceptibility tests, standard NCCLS method, 50 μg/disk (control 30 μg/disk), gram-positive bacteria: *Staphylococcus aureus*, DIZ = 14mm, positive control Kanamycin, DIZ = 10mm; *Bacillus subtilis*, DIZ = 14mm, positive control Kanamycin, DIZ = 18mm; *Bacillus sphaericus*, DIZ = 12mm, positive control Kanamycin, DIZ = 20mm; gram-negative bacteria: *Chromobacterium violaceum*, DIZ = 13mm, positive control Kanamycin, DIZ = 17mm; *Klebsiella aerogenes*, 10mm, positive control Kanamycin, DIZ = 15mm; *Pseudomonas aeruginosa*, DIZ = 16mm, positive control Kanamycin, DIZ = 27mm). Source: ZI SHA ROU HAI MIAN *Psammaphysilla purpurea*. Ref: 4372.

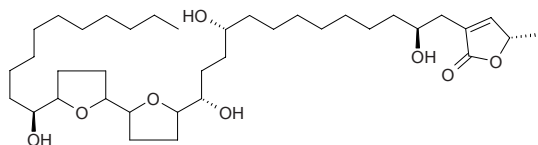
**18214 Purpureacin 1**

[150134-21-7] C₃₇H₆₆O₈ (638.93). White amorphous powder, [α]_D = -3.3° (c = 0.12, MeOH). Pharm: Cytotoxic (BST, LC₅₀ = 0.53 μg/mL); antibacterial (*Bacillus subtilis*, MED = 20 μg); antifungal (yeast *Candida albicans*, MED = 0.05 μg); larvacide (larva of *stegomyia calopus*, LC₁₀₀ = 2.0 μg/mL). Source: ZI FAN LI ZHI *Annona purpurea*. Ref: 3664.

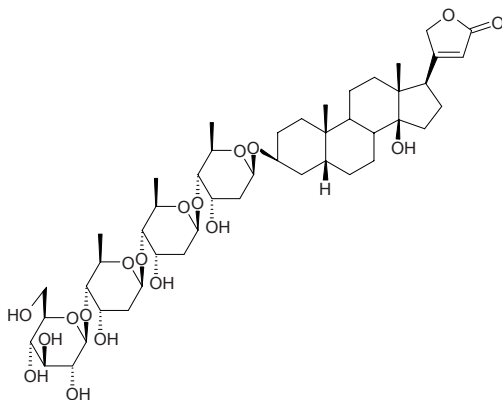


18215 Purpureacin 2

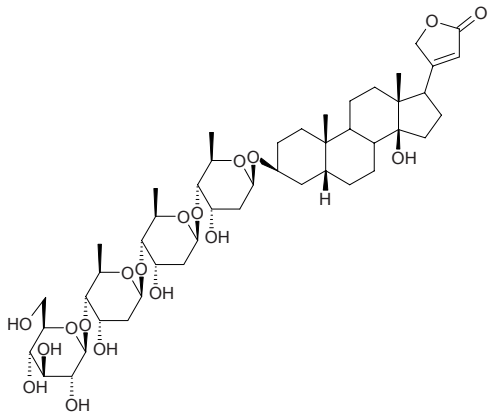
[149990-60-3] C₃₇H₆₆O₈ (638.93). White amorphous powder, $[\alpha]_D^{20} = +6.5^\circ$ ($c = 0.17$ MeOH). **Pharm:** Cytotoxic (BST, LC₅₀ = 0.38 μg/mL); antifungal (yeast *Candida albicans*, MED = 1 μg); larvicide (larva of *stegomyia calopus*, LC₁₀₀ = 1.0 μg/mL). **Source:** ZI FAN LI ZHI *Annona purpurea*. **Ref:** 3664.

**18216 Purpurea glycoside A**

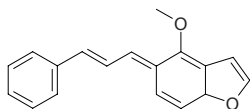
[19855-40-4] C₄₇H₇₄O₁₈ (927.10). Platelets (EtOH–Et₂O) or amorphous substance, mp 270~280°C (dec), $[\alpha]_D^{20} = +12^\circ$ (EtOH aq.). **Pharm:** Cardiotonic. **Source:** MAO DI HUANG *Digitalis purpurea* (dried leaf: content = 0.053%^[5508]), *Digitalis* spp. **Ref:** 660, 1521, 5508.

**18217 Purpurea glycoside B**

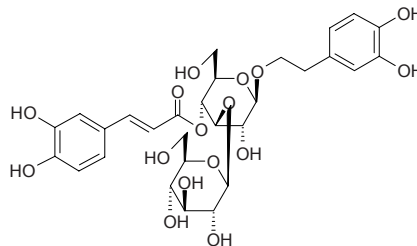
[19855-39-1] C₄₇H₇₄O₁₈ (927.10). Prisms or needles (CHCl₃–MeOH–Et₂O), mp 240°C (dec), $[\alpha]_D^{20} = +15.5^\circ$ (EtOH aq.). **Source:** MAO DI HUANG *Digitalis purpurea* (dried leaf: content = 0.051%^[5508]), *Digitalis* spp. **Ref:** 660, 1521, 5508.

**18218 Purpureamethide**

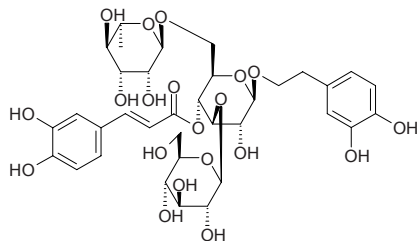
[83728-91-0] C₁₈H₁₆O₂ (264.33). Red crystals (C₆H₆–EtOAc), mp 127~128°C. **Source:** HUI YE *Tephrosia purpurea*. **Ref:** 3577.

**18219 Purpureaside A**

Plantamajoside; 3,4-Dihydroxy-β-phenethyl-O-β-D-glucopyranosyl-(1→3)-4-O-caffeoyl-β-D-glucopyranoside [104777-68-6] C₂₉H₃₆O₁₆ (640.60). Amorphous powder, mp 158~162°C; 142.7~152.0°C, $[\alpha]_D^{24.8} = -43.88^\circ$ ($c = 0.47$, methanol), $[\alpha]_D^{19} = -54.3^\circ$ ($c = 0.8$, MeOH). **Pharm:** Antiasthmatic; antibacterial (*Pseudomonas cepacia* and *Pseudomonas maltophilia* ED = 0.2~0.5 mg; *Corynebacterium fascians* MIC = 2.0 mg/mL; *Erwinia carotovora* var. *Carotovora* MIC = 1.0 mg/mL; *Escherichia coli*, *Staphylococcus aureus*, several plant pathogenic bacteria); anti-inflammatory (mus ears, caused by arachidonic acid, 1 mg/ear InRt = 12%, 2 mg/ear InRt = 25%); Δ⁵-lipoxygenase inhibitor (IC₅₀ = 0.373 μmol/L); cAMP phosphodiesterase inhibitor (*in vitro*, IC₅₀ = 160 μmol/L); decreases some hmn leukocyte functions. **Source:** CHANG YE CHE QIAN *Plantago lanceolata*, DA CHE QIAN *Plantago major*, CHE QIAN *Plantago asiatica*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], MAO DI HUANG *Digitalis purpurea*, PU FU JING TU ER CAO *Lagotis stolonifera*. **Ref:** 2, 658, 900, 3000, 3101, 5020.

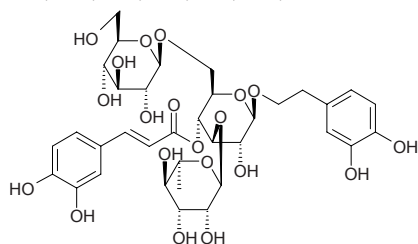
**18220 Purpureaside B**

3,4-Dihydroxy-β-phenethyl-O-β-D-glucopyranosyl-(1→3)-O-α-L-rhamnopyranosyl-(1→6)-4-O-caffeoyl-β-D-glucopyranoside [104777-69-7] C₃₅H₄₆O₂₀ (786.74). Amorphous powder, $[\alpha]_D^{19} = -14^\circ$ ($c = 1.0$, MeOH); $[\alpha]_D^{27} = -16^\circ$ ($c = 1.0$, MeOH). **Pharm:** Antibacterial (*Bacillus coli*, weak); decreases some hmn leukocyte functions. **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], MAO DI HUANG *Digitalis purpurea*. **Ref:** 2, 2999, 3000.

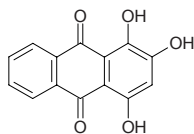


18221 Purpureaside C

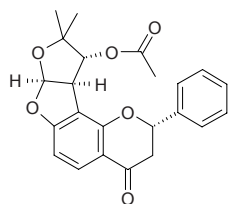
[108648-07-3] C₃₅H₄₆O₂₀ (786.74). Amorphous powder, $[\alpha]_D^{27} = -16.3^\circ$ ($c = 1.0$, MeOH), $[\alpha]_D^{24} = -60.3^\circ$ ($c = 0.61$, MeOH). **Pharm:** Anti-inflammatory (*in vivo*, swollen foot model caused by carrageenan); immunosuppressant (mus, 100mg/kg orl, inhibits formation of hemolytic patch formative cell HPFC in spleen, InRt = 26.3%); antibacterial (*Bacillus coli*); antihepatotoxin (anti-hepatotoxicity); immunosuppressant; antitrypanosomal (*Trypanosoma b. rhodesiense*, IC₅₀ = 8.9μg/mL, control Melarsoprol, IC₅₀ = 0.00098μg/mL; *Trypanosoma cruzi*, IC₅₀ > 90μg/mL, control Benznidazole, IC₅₀ = 1.06μg/mL)^[5009]; antileishmanial (*Leishmania donovani*, IC₅₀ = 13.1μg/mL, control Miltefosine, IC₅₀ = 0.102μg/mL)^[5009]; antimalarial (*Plasmodium falciparum*, IC₅₀ > 50μg/mL, control Artemisinin, IC₅₀ = 0.0022μg/mL)^[5009]; cytotoxic (L-6, IC₅₀ > 90μg/mL, control Podophyllotoxin, IC₅₀ = 0.008μg/mL)^[5009]. **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], MAO DI HUANG *Digitalis purpurea*, ROU CONG RONG *Cistanche deserticola*, XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], YAN SHENG ROU CONG RONG *Cistanche salsa*, ZI DI HUANG *Rehmannia glutinosa* var. *purpurea*, ZONG KUI CAO SU *Phlomis brunneogaleata*. **Ref:** 2, 628, 658, 660, 1521, 3000, 3578, 1785, 3579, 3580, 5009.

**18222 Purpurin**

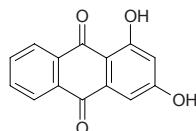
[81-54-9] C₁₄H₈O₅ (256.22). mp 263°C. **Pharm:** Genotoxic (hamster, mutagenesis experiment on fibrocyte); cytotoxic (KB, ED₅₀ = 3.1μg/mL, control Doxorubicin, ED₅₀ = 0.12μg/mL; Hep3B, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.14μg/mL; Colon205, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.10μg/mL; HeLa, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.11μg/mL)^[4369]. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), YANG QIAN CAO *Rubia tinctorum*, QIAN CAO GEN *Rubia cordifolia*, XIANG CHE YE CAO *Asperula odorata*, *Galium* sp. **Ref:** 6, 658, 4369.

**18223 (+)-Purpurin 2**

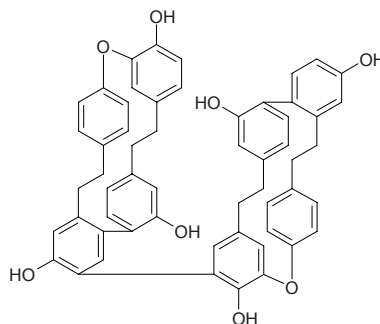
[93787-60-3] C₂₃H₂₂O₆ (394.43). Needles (pet. Ether-CHCl₃), mp 145~146°C, $[\alpha]_D^{27} = +20.3^\circ$ ($c = 1.05$, CHCl₃). **Pharm:** Induces quinone reductase (mus hepatic cytochrome, CD = 5.6μmol/L, IC₅₀ > 50.7μmol/L, chemical preventive index (CI = IC₅₀/CD) > 9.0). **Source:** HAN MI ER DUN HUI YE *Tephrosia hamiltonii*, HUI YE *Tephrosia purpurea*, HUI YE GEN *Tephrosia purpurea*. **Ref:** 3665, 3666, 1657.

**18224 Purpuroxanthin**

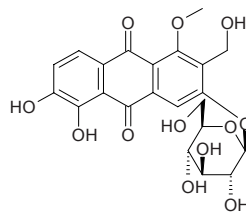
Xanthopurpurin; 1,3-Dihydroxy-9,10-anthraquinone [518-83-2] C₁₄H₈O₄ (240.22). mp 268~270°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 6.57μg/mL, control Doxorubicin, ED₅₀ = 0.12μg/mL; Hep3B, ED₅₀ = 1.7μg/mL, control Doxorubicin, ED₅₀ = 0.14μg/mL; Colon205, ED₅₀ = 1.9μg/mL, control Doxorubicin, ED₅₀ = 0.10μg/mL; HeLa, ED₅₀ > 25μg/mL, control Doxorubicin, ED₅₀ = 0.11μg/mL)^[4369]. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), QIAN CAO GEN *Rubia cordifolia*, YANG JIAO TENG *Morinda umbellata*. **Ref:** 6, 660, 4369.

**18225 Pusalatin C**

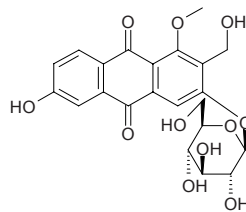
C₅₆H₄₆O₈ (846.99). **Source:** HU BAO TAI *Blasia pusilla*. **Ref:** 4549.

**18226 Putorinoside A**

2-Hydroxymethyl-1-methoxy-3,5,6-trihydroxyanthraquinone 3-O-β-glucopyranoside C₂₂H₂₂O₁₂ (478.41). $[\alpha]_D^{20} = -96^\circ$ ($c = 0.05$, MeOH). **Source:** *Putoria calabrica*. **Ref:** 4197.

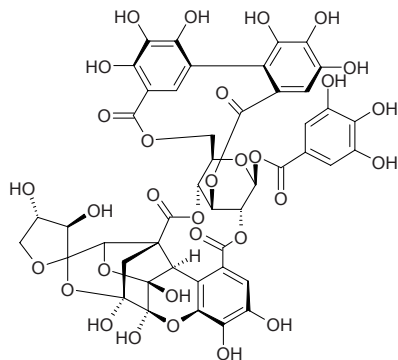
**18227 Putorinoside B**

2-Hydroxymethyl-1-methoxy-3,6-dihydroxyanthraquinone 3-O-β-glucopyranoside C₂₂H₂₂O₁₁ (462.41). $[\alpha]_D^{20} = -56^\circ$ ($c = 0.05$, MeOH). **Source:** *Putoria calabrica*. **Ref:** 4197.

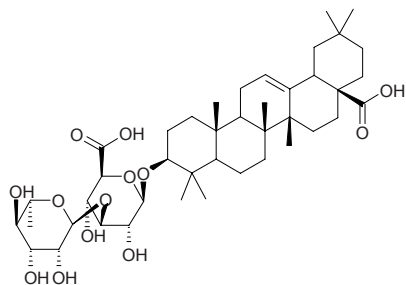


18228 Putranjivain A

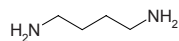
[131959-62-1] $C_{46}H_{36}O_{31}$ (1084.76). Amorphous powder, $[\alpha]_D = -89.0^\circ$ ($c = 0.1$, methanol). **Pharm:** HIV reverse transcriptase inhibitor ($IC_{50} = 3.9\mu\text{mol/L}$). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice)^[3094]. **Ref:** 900, 3094.

**18229 Putranoside A**

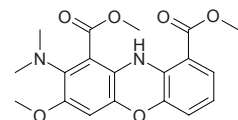
[51161-56-9] $C_{42}H_{66}O_{13}$ (778.99). White amorphous powder, mp 261–272°C (dec). **Pharm:** Spermaticidal (1.0–1.3mg/mL); molluscicide (*Biomphalaria glabrata* snail EC = 3mg/L; 3mg/L, 100% killed); hemolytic (0.01mg/mL). **Source:** AI JI TIAN JING *Sesbania sesban*, JIANG GUO XIAN *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], MA DAO SI WO CI DOU *Swartzia madagascariensis*, NIU YAN PENG QI JU *Zexmenia bupthalmiflora*, PU YE SHAN YOU ZI *Opilia celtidifolia*, *Diospyros zombensis*, *Putranjiva roxburghii*. **Ref:** 3667, 3668, 3669, 3670, 3671, 3672, 3673.

**18230 Putrescine**

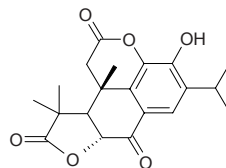
1,4-Diaminobutane [110-60-1] $C_4H_{12}N_2$ (88.15). mp 27–28°C, bp 158–159°C. **Pharm:** Reagent used in biochemistry research. **Source:** JIANG *Glycine max*, MAI YA *Hordeum vulgare*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]^[5508]. **Ref:** 6, 658, 5508.

**18231 Pycnosanguin**

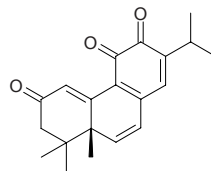
[133056-31-2] $C_{19}H_{20}N_2O_6$ (372.38). Yellow needles, mp 246–249°C. **Source:** XUE HONG SHUAN JUN *Pycnoporus sanguineus*. **Ref:** 3581.

**18232 Pygmaeocin A**

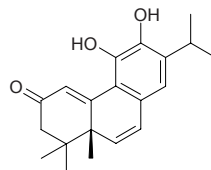
[122590-05-0] $C_{20}H_{22}O_6$ (358.39). Crystals (MeOH), mp 281–283°C. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3119.

**18233 Pygmaeocin B**

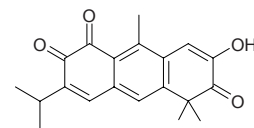
[128049-12-7] $C_{20}H_{22}O_3$ (310.40). Purple solid (CH_2Cl_2), mp 108.5–110°C. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3582.

**18234 Pygmaeocin C**

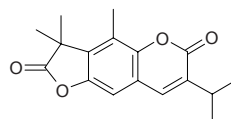
[128022-72-0] $C_{20}H_{24}O_3$ (312.41). Yellow foam. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3582.

**18235 Pygmaeocine E**

[115333-92-1] $C_{20}H_{20}O_4$ (324.38). Brownish-red prisms ($CHCl_3$ –MeOH), mp 192–193°C. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3583.

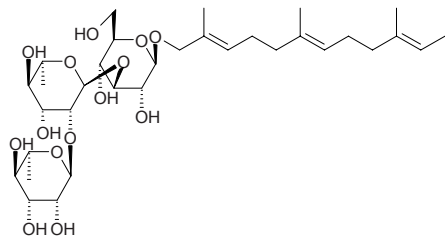
**18236 Pygmaeoherin**

[115028-58-5] $C_{17}H_{18}O_4$ (286.33). Needles ($CHCl_3$ –MeOH), mp 198–200°C. **Source:** QIAN JIE CAO *Pygmaeopremna herbacea* [Syn. *Premna herbacea*]. **Ref:** 3584.

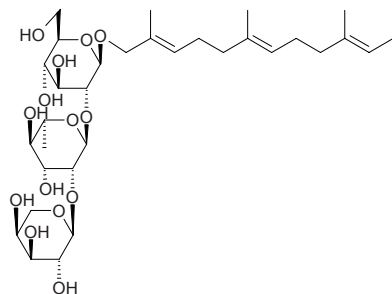


18237 Pyishiauoside I_b

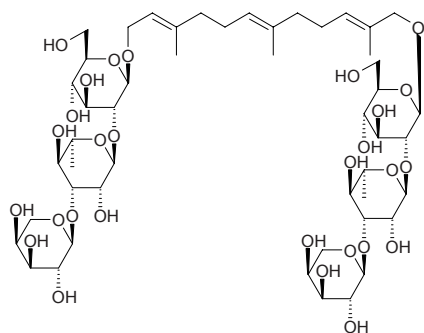
$C_{33}H_{56}O_{14}$ (676.81). Source: PI SHAO ZI *Sapindus delavayi* [Syn. *Pancovia delavayi*]. Ref: 3585.

**18238 Pyishiauoside II_b**

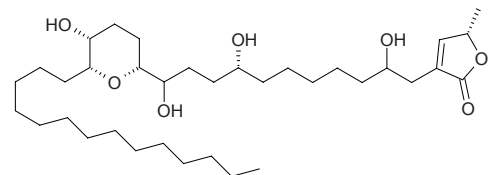
$C_{32}H_{54}O_{14}$ (662.78). Source: PI SHAO ZI *Sapindus delavayi* [Syn. *Pancovia delavayi*]. Ref: 3585.

**18239 Pyishiauoside IV_b**

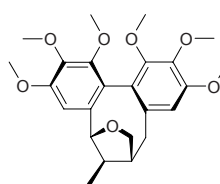
$C_{49}H_{82}O_{28}$ (1119.18). Source: PI SHAO ZI *Sapindus delavayi* [Syn. *Pancovia delavayi*]. Ref: 3585.

**18240 Pyragonicin**

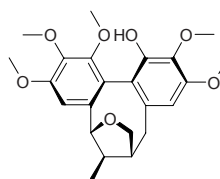
[209668-36-0] $C_{35}H_{64}O_7$ (596.90). White amorphous wax, $[\alpha]_D^{23} = -25.6^\circ$ ($c = 0.008$, $CHCl_3$). Pharm: Cytotoxic (PACA-2, $ED_{50} = 0.058 \mu g/mL$, BST, $LC_{50} = 0.9 \mu g/mL$, YFM, $LC_{50} = 73.8 \mu g/mL$). Source: DA GE NA XIANG *Goniothalamus giganteus*. Ref: 3749.

**18241 Pyramidatin A**

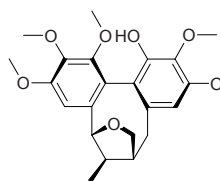
$C_{24}H_{30}O_7$ (430.50). Colorless crystals, mp 152~154°C ($CHCl_3$:EtOAc = 9:1). Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18242 Pyramidatin B**

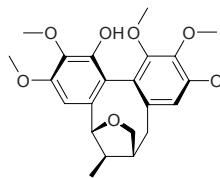
$C_{23}H_{28}O_7$ (416.48). Colorless crystals, mp 198~199°C ($CHCl_3$:EtOAc = 9:1). Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18243 Pyramidatin C**

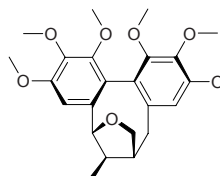
$C_{23}H_{28}O_7$ (416.48). Colorless oil. Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18244 Pyramidatin D**

$C_{23}H_{28}O_7$ (416.48). Amorphous solid. Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

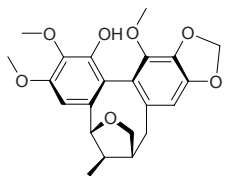
**18245 Pyramidatin E**

$C_{23}H_{28}O_7$ (416.48). Amorphous solid. Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

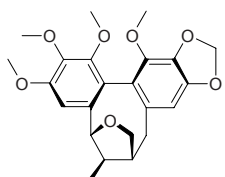


18246 Pyramidatin F

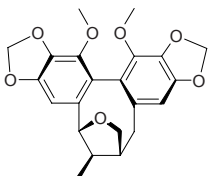
$C_{22}H_{24}O_7$ (400.43). Amorphous solid. Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18247 Pyramidatin G**

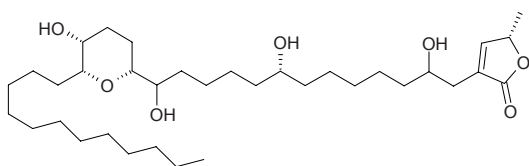
$C_{23}H_{26}O_7$ (414.46). Colorless oil. Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18248 Pyramidatin H**

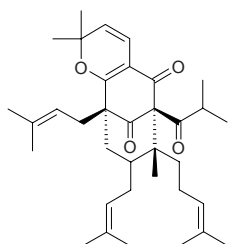
$C_{22}H_{22}O_7$ (398.42). Colorless crystals, mp 208~211°C (hexane-EtOAc). Source: JIN ZI TA MU LAN *Magnolia pyramidata* (leaf). Ref: 5103.

**18249 Pyranicin**

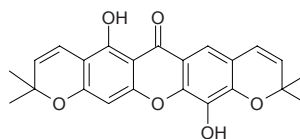
[209668-35-9] $C_{35}H_{64}O_7$ (596.90). White amorphous wax, $[\alpha]_D^{23} = -9.7^\circ$ ($c = 0.008$, $CHCl_3$). Source: DA GE NA XIANG *Goniothalamus giganteus*. Ref: 3749.

**18250 Pyrano-[7,28-b]hyperforin**

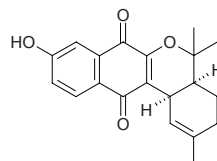
$C_{35}H_{50}O_4$ (534.79). Colorless viscous oil, $[\alpha]_D^7 = +83.5^\circ$ ($c = 0.28$, $CHCl_3$). Source: GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts: yield = 0.00012%dw). Ref: 3032.

**18251 Pyranojacaeubin**

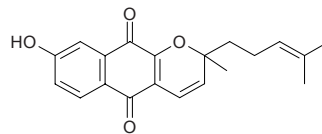
$C_{23}H_{20}O_6$ (392.41). Pharm: Antivirus (hmn coronavirus strain 229E (HCoV-229E), 15µg/mL). Source: *Calophyllum blancoi* (root). Ref: 4441.

**18252 Pyranokunthone A**

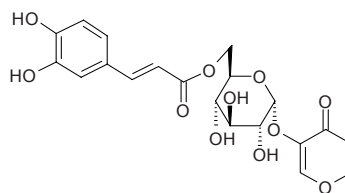
$C_{20}H_{20}O_4$ (324.38). Yellow solid, $[\alpha]_D^{20} = -38^\circ$ ($c = 0.04$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial); toxic (endothelial cell line ECV-304). Source: WU GAN DA YU YE QIU *Stereospermum kunthianum*. Ref: 2019.

**18253 Pyranokunthone B**

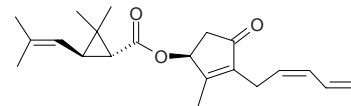
$C_{20}H_{20}O_4$ (324.38). Yellow solid, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.2$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial); toxic (endothelial cell line ECV-304). Source: WU GAN DA YU YE QIU *Stereospermum kunthianum*. Ref: 2019.

**18254 1-(2'-γ-Pyranone)-6-caffeoyl-α-D-pyranoglucose**

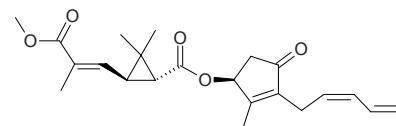
$C_{20}H_{20}O_{11}$ (436.38). Yellowish powder, mp 145~146°C. Source: DENG ZHAN XI XIN *Erigeron breviscapus*. Ref: 2115.

**18255 Pyrethrin I**

[121-21-1] $C_{21}H_{28}O_3$ (328.46). bp 146~150°C/0.0005mmHg. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 6, 1521.

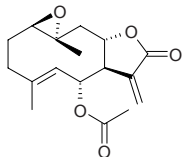
**18256 Pyrethrin II**

[121-29-9] $C_{22}H_{28}O_5$ (372.47). bp 192~193°C/0.007mmHg. Pharm: Pesticide; LD₅₀ (rat, orl) = 1.2g/kg. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*]. Ref: 6, 658, 1521.

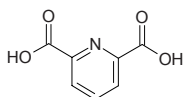


18257 Pyrethrosin

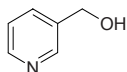
[28272-18-6] C₁₇H₂₂O₅ (306.36). **Pharm:** Dermatitic (causes contact dermatitis); molluscicide; plant growth regulator. **Source:** CHU CHONG JU *Chrysanthemum cinerariaefolium*, HONG HUA CHU CHONG JU *Chrysanthemum coccineum*. **Ref:** 658.

**18258 Pyridine-2,6-dicarboxylic acid**

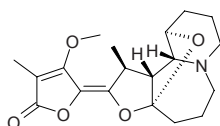
C₇H₅NO₄ (167.12). **Source:** YONG CHONG CAO *Cordyceps militaris*. **Ref:** 4784.

**18259 Pyridin-3-yl-methanol**

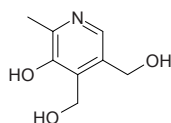
C₆H₇NO (109.13). **Source:** ZANG HONG HUA *Crocus sativus* (pollen), ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.00007%dw). **Ref:** 4233, 4653.

**18260 Pyridostemin**

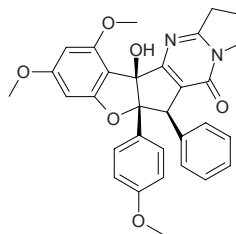
4-Methoxy-3-methyl-5-[(2Z,11aS)-3at,11t-epoxy-1c-methyl-(11ar,11bc)-dodecahydrofuro[3,2-c]pyrido[1,2-a]azepin-2-ylidene]-5H-furan-2-one C₁₉H₂₅NO₅ (347.41). Amorphous, [α]_D²⁰ = +473° (c = 0.4, MeOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 149mg/L, EC₅₀ = 96mg/L). **Source:** *Stemona* sp.(HG915). **Ref:** 3409.

**18261 Pyridoxine**

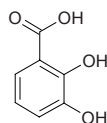
Vitamin B₆ [65-23-6] C₈H₁₁NO₃ (169.18). mp 160°C (sub). **Pharm:** Prevents atherosclerosis; coenzyme of amino transferase, decarboxylase, racemase and some other amino acids; improves appetite and symptoms in hepatitis patients; indispensable for cell growth (promotes biosynthesis of protein). **Source:** BA JIAO HUI XIANG *Illicium verum*, FENG MI *Apis cerana*, GAN ZHE *Saccharum sinensis*, MO GU *Agaricus campestris*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, YU SHU SHU *Zea mays*. **Ref:** 6, 658.

**18262 Pyrimidinone**

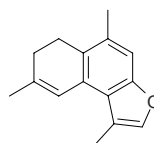
[15595-93-0] C₃₁H₂₈N₂O₆ (524.57). Colorless lamellar crystals (dichloromethane-methanol), mp 256~257°C [α]_D²⁰ = -50.1° (c = 0.41, chloroform). **Pharm:** Antineoplastic (inhibits K-ras-NRK, IC₅₀ = 81ng/mL, induces normal conformation of cells and inhibits biosynthesis of protein in 10~30ng/mL); pesticide. **Source:** MI ZI LAN *Aglaia odorata*. **Ref:** 900.

**18263 o-Pyrocatechuic acid**

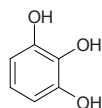
[303-38-8] C₇H₆O₄ (154.12). **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*. **Ref:** 6.

**18264 Pyrocurzerenone**

[20013-75-6] C₁₅H₁₆O (212.29). Crystals (pet. ether), mp 76.5~77.5°C. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 3586.

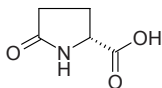
**18265 Pyrogallol**

[87-66-1] C₆H₆O₃ (126.11). **Pharm:** Antifungal (microzyme, such as *Candida albicans*); antimutagenic; inhibits degradation of insulin. **Source:** CHANG JIAO DOU *Ceratonia siliqua*, JIAN YING XUAN GOU ZI *Rubus rigidus*, LONG YAN JING *Phyllanthus reticulatus*, MA SHI DA HUANG *Rheum maximowiczii*, MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.000061%)^[4733], XIANG CAO SHUI YANG ME *Geum urbanum*, *Rosa* sp. **Ref:** 658, 4733.

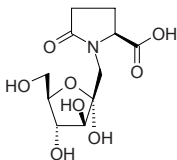


18266 Pyroglutamic acid

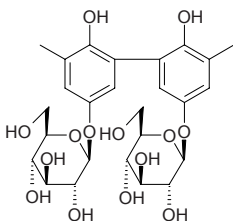
5-Oxoproline [4042-36-8] C₅H₇NO₃ (129.12). mp 182~183°C. Source: GOU QI YE *Lycium chinense*, MO GU *Agaricus campestris*, SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 6, 2928.

**18267 Pyroglutamic acid N-fructoside**

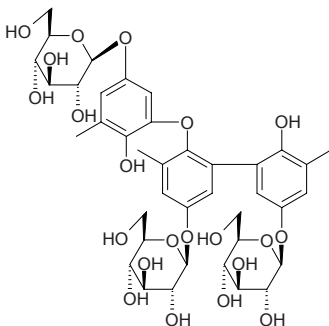
C₁₁H₁₇NO₈ (291.26). Source: DANG SHEN *Codonopsis pilosula*. Ref: 660.

**18268 Pyrolaside A**

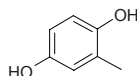
C₂₆H₃₄O₁₄ (570.55). White amorphous powder, [α]_D²⁰ = 0° (c = 0.10, H₂O). Source: YUAN YE LU TI CAO *Pyrola rotundifolia* (whole herb). Ref: 4498.

**18269 Pyrolaside B**

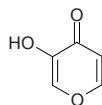
C₃₉H₅₀O₂₁ (854.82). White amorphous powder, [α]_D²⁰ = -47.4° (c = 0.10, H₂O). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 35.0 μg/mL, control Bakuchiol, MIC = 20.0 μg/mL; *Micrococcus luteus*, MIC = 20.5 μg/mL, control Bakuchiol, MIC = 10.0 μg/mL). Source: YUAN YE LU TI CAO *Pyrola rotundifolia* (whole herb). Ref: 4498.

**18270 Pyrolin**

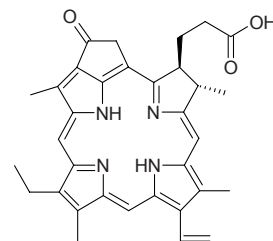
2,5-Dihydroxytoluene [95-71-6] C₇H₇O₂ (124.13). Lamellar crystals (benzene), mp 126~127°C, mp 124~125°C, bp 163°C/11 mmHg. Pharm: Antibacterial (broad spectrum and low toxicity, *Staphylococcus aureus*, MIC = 125.0 μg/mL; *Enterococcus* sp., MIC = 125.0 μg/mL; *Bacillus typhosus*, MIC = 1000 μg/mL); antifungal; pesticide (curculio, grasshopper, housefly and cockroach); used in treatment of infectious diseases (infection of respiratory tract, urethra, digestive tract and wounds). Source: LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], PU TONG LU TI CAO *Pyrola decorata*, YUAN YE LU TI CAO *Pyrola rotundifolia*. Ref: 6, 660, 661, 5501.

**18271 Pyromeconic acid**

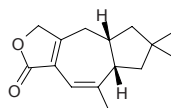
3-Hydroxy-4H-pyran-4-one [496-63-9] C₅H₄O₃ (112.09). mp 117°C, bp 227~228°C. Source: YI NIAN PENG *Erigeron annuus*. Ref: 6, 415, 1521.

**18272 Pyropheophorbide a**

[24533-72-0] C₃₃H₃₄N₄O₃ (534.66). Crystals (Et₂O), mp 210°C, [α]_D²⁰ = -342° (acetone). Pharm: Antiviral (HSV-2, EC₅₀ = 57 μg/mL); antineoplastic (concentrated in tumor tissue, produces cytotoxic activity under exposure of light with special wavelength). Source: DAN YE DONG FENG JU *Atalantia monophylla*. Ref: 1035, 3718, 3719.

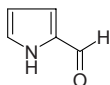
**18273 Pyrovellerolactone**

[68582-98-9] C₁₅H₂₀O₂ (232.33). Source: RONG BAI RU GU *Lactarius vellereus*, SI YANG PI ZHI RU GU *Lactarius pergamenus*, *Lactarius helvus*. Ref: 660, 1521.



18274 Pyrrole-2-aldehyde

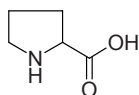
[1003-29-8] C₅H₅NO (95.10). mp 46~47°C. Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**18275 Pyrrolidine**

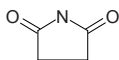
Tetrahydropyrrole [123-75-1] C₄H₉N (71.12). mp 88.5~89.0°C. Source: HU LUO BO *Daucus carota* var. *sativa*, HE SHI FENG *Daucus carota*. Ref: 6.

**18276 Pyrrolidine carboxylic acid**

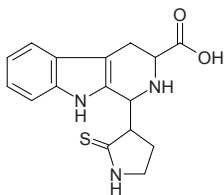
[609-36-9] C₅H₉NO₂ (115.13). mp (+) 215~220°C (dec), (-) 220~222°C (dec), (±) 213°C. Source: WU HUA GUO *Ficus carica*. Ref: 6.

**18277 Pyrrolidine-2,5-dione**

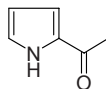
C₄H₅NO₂ (99.09). Source: REN SHEN LU *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 3587.

**18278 1-(2'-Pyrrolidinethion-3'-yl)-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid**

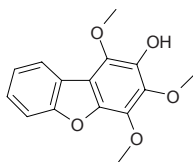
C₁₆H₁₇N₃O₂S (315.40). Source: LAI FU *Raphanus sativus*. Ref: 3588.

**18279 Pyrrolyl-α-methyl ketone**

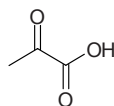
[1072-83-9] C₆H₇NO (109.13). Source: XIE CAO *Valeriana officinalis*. Ref: 6.

**18280 α-Pyrufuran**

[88256-05-7] C₁₅H₁₄O₅ (274.28). Pharm: Antifungal (*Cladosporium cucumerinum*). Source: XI YANG LI *Pyrus communis*. Ref: 658.

**18281 Pyruvic acid**

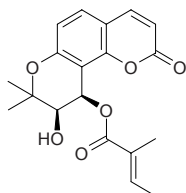
Pyroracemic acid [127-17-3] C₃H₄O₃ (88.06). Crystals or liquid with odour resembling acetic acid, mp 13.6°C, bp 165°C (partly dec), bp 65°C/10mmHg, pK_{a1} = 2.39 (25°C). Source: FENG HUANG MU *Delonix regia*, HONG HAI JIAO *Capsicum annum*, HUI HUI DOU *Cicer arietinum*, JI CAI *Capsella bursa-pastoris*, JI MAO CAI *Pterocladia tenuis*, KUAN YE XIANG PU *Typha latifolia*, LAN HU LU BA *Trigonella caerulea*, PING GUO *Malus pumila*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHUI LIAO *Polygonum hydropiper*, TAO YE LIAO *Polygonum persicaria*, WAN DOU *Pisum sativum*, ZI YANG TI JIA *Bauhinia purpurea*, ZUO JIANG CAO *Oxalis corniculata* [Syn. *Oxalis repens*]. Ref: 2, 660, 1521.



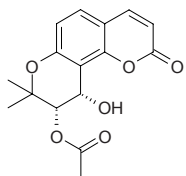
Q

18282 Qianhucoumarin A

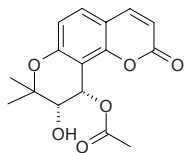
Lasertipin; 3'(*R*)-Hydroxy-4'(*R*)-tigloyloxy-3',4'-dihydroseselin C₁₉H₂₀O₆ (344.37). White prismatic crystals, mp 123~126°C, $[\alpha]_D^{20} = +209.6^\circ$ ($c = 0.5$, CHCl₃). **Pharm:** NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100μmol/L, InRt = (24.9±4.0)%), control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%^[4454]. **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, FEN CHA DANG GUI *Angelica furcijuga* (flower). **Ref:** 268, 4454.

**18283 Qianhucoumarin B**

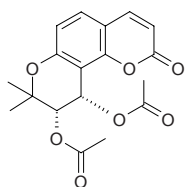
3'(*S*)-Acetoxy-4'(*S*)-hydroxy-3',4'-dihydroseselin C₁₆H₁₆O₆ (304.30). Colorless crystals (petroleum spirit-acetic ester), mp 159~161°C, $[\alpha]_D^{20} = +3.9^\circ$ ($c = 1.0$, CHCl₃). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 281.

**18284 Qianhucoumarin C**

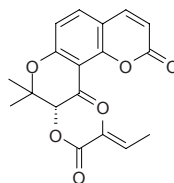
3'(*S*)-Hydroxy-4'(*S*)-acetoxy-3',4'-dihydroseselin C₁₆H₁₆O₆ (304.30). Colorless crystals (petroleum spirit-acetic ester), mp 186~188°C, $[\alpha]_D^{20} = +7.6^\circ$ ($c = 1.0$, CHCl₃). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 281.

**18285 Qianhucoumarin D**

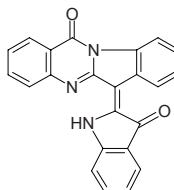
3'(*S*),4'(*S*)-Diacetoxy-3',4'-dihydroseselin C₁₈H₁₈O₇ (346.34). Colorless prismatic crystals, mp 160.5~162.5°C, $[\alpha]_D^{20} = +4.0^\circ$ ($c = 1.0$, chloroform). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 290.

**18286 Qianhucoumarin E**

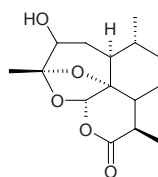
3'(*R*)-Tigloyloxy-4'-keto-3',4'-dihydroseselin C₁₉H₁₈O₆ (342.35). Colorless prismatic crystals, mp 103.5~105.5°C, $[\alpha]_D^{20} = +19.6^\circ$ ($c = 1.0$, chloroform). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*. **Ref:** 290.

**18287 Qingdainone**

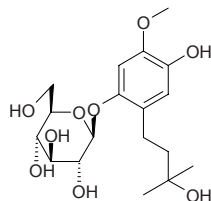
Indolo[2,1*b*]-quinazoline-6,12-dione [97457-31-3] C₂₃H₁₃N₃O₂ (363.38). Dark purple acicular crystals, mp 278~280°C. **Pharm:** Antineoplastic (mus, Lewis lung cancer, B16 melanoma). **Source:** DA QING YE *Isatis indigotica*, LIAO LAN GUO *Polygonum tinctorium*, LIAO LAN YE *Polygonum tinctorium*, MA LAN YE *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], OU ZHOU SONG LAN *Isatis tinctoria*. **Ref:** 21, 660.

**18288 Qinghaosu IV**

Artemisinin IV C₁₅H₂₂O₅ (282.34). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

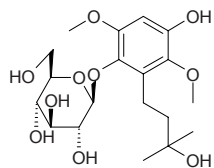
**18289 Qingjueine I**

2-(3'-Hydroxy-3'-methylbutyl)-4-hydroxy-5-methoxyphenol-1-*O*-β-*D*-glucopyranoside C₁₈H₂₈O₉ (388.42). Amorphous powder (EtOH), mp 212~214°C, $[\alpha]_D^{20} = -38.24^\circ$ ($c = 0.1$, MeOH). **Source:** FENG WEI CAO *Pteris multifida*. **Ref:** 4550.

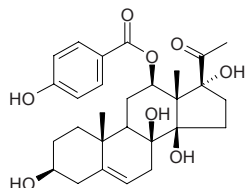


18290 Qingjueine II

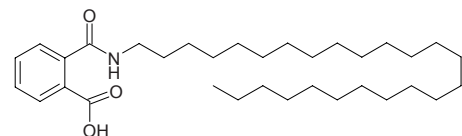
2-(3'-Hydroxy-3'-methylbutyl)-4-hydroxy-3,6-dimethoxyphenyl-1-*O*- β -D-glucopyranoside C₁₉H₃₀O₁₀ (418.44). White amorphous powder (MeOH), mp 234~236°C, $[\alpha]_D^{20} = -37.6^\circ$ ($c = 0.1$, MeOH). Source: FENG WEI CAO *Pteris multifida*. Ref: 4550.

**18291 Qingyangshengenin**

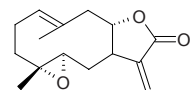
C₂₈H₃₆O₈ (500.59). Source: DUAN JIE SHEN *Cynanchum wallichii*, QING YANG SHEN *Cynanchum otophyllum*. Ref: 4038, 4039.

**18292 Qinjiaoamide**

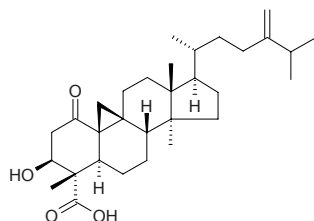
N-Pentacosyl-2-carboxy-benzoyl amide C₃₃H₅₇NO₃ (515.83). White needles, mp 103~105°C. Source: QIN JIAO *Gentiana macrophylla*. Ref: 4594.

**18293 Quadrangolide**

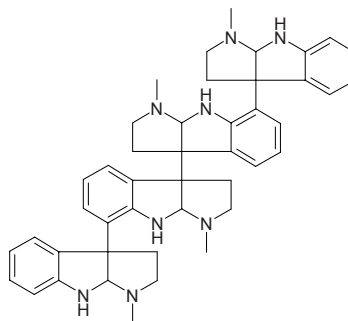
[110269-98-2] C₁₅H₂₀O₃ (248.32). Prisms (MeOH), mp 118~120°C, $[\alpha]_D^{20} = +134.6^\circ$ ($c = 0.575$, CHCl₃). Pharm: Anthelmintic (ants, 6.0mg/mL). Source: SI LENG ZE LAN *Eupatorium quadrangulare*, TAI PING YANG JIA ZE LAN *Mikania mendocina*. Ref: 4023, 4024.

**18294 Quadrangularic acid E**

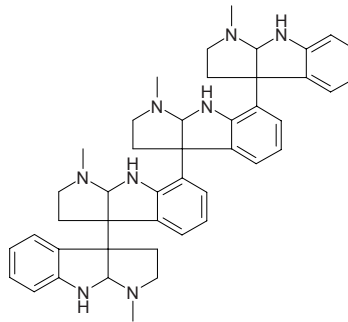
C₃₁H₄₈O₄ (484.73). Pharm: Anti-HIV-1 (syncytium assay: IC₅₀ = 18.5μg/mL, EC₅₀ = 6.8μg/mL; HIV-1 RT assay: 200μg/mL, InRt = 80.1%, IC₅₀ = 47.9μg/mL, control Fagaronine chloride, IC₅₀ = 10.9μg/mL, Nevirapine IC₅₀ = 1.8μg/mL). Source: TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). Ref: 4963.

**18295 Quadrigemine A**

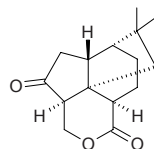
[69937-02-6] C₄₄H₅₀N₈ (690.94). White amorphous resinoid foam, $[\alpha]_D^{23} = +32^\circ$ (alcohol). Pharm: Platelet aggregation inhibitor (hmn, induced by ADP, collagen, thrombin, EC = 1~10μmol/L, acts in late stage of platelet activation); Cytotoxic (rat, cultural liver cancer cell HTC, 5μmol/L, cellular death rate = 100%). Source: FU SI TE JIU JIE *Psychotria forsteriana*, *Hodgkinsonia frutescens*. Ref: 4014, 4015, 4016.

**18296 Quadrigemine B**

[69937-10-6] C₄₄H₅₀N₈ (690.94). White crystals (MeOH), mp 229~234°C, $[\alpha]_D^{23} = +263^\circ$ (alcohol). Pharm: Platelet aggregation inhibitor (hmn, induced by ADP, collagen, thrombin, EC = 1~10μmol/L, acts in late stage of platelet activation); Cytotoxic (rat, cultural liver cancer cell HTC, 10μmol/L, cellular death rate = 100%). Source: FU SI TE JIU JIE *Psychotria forsteriana*, HUI ZHUANG JIU JIE *Psychotria rostrata*, *Hodgkinsonia frutescens*. Ref: 4014, 4015, 4016, 4017.

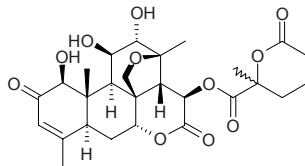
**18297 Quadrone**

[66550-08-1] C₁₅H₂₀O₃ (248.33). Pharm: Antineoplastic; cytotoxic. Source: *Aspergillus terreus*. Ref: 658.

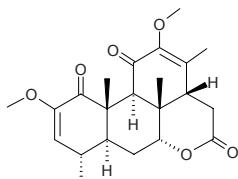


18298 Quassimarin

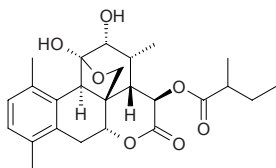
[59938-97-5] $C_{27}H_{36}O_{11}$ (536.58). Acicular crystals (ethyl acetate–hexane), mp 237.5–238.5°C (dec), $[\alpha]_D^{26} = +22.4^\circ$ ($c = 0.29$, chloroform). **Pharm:** Antineoplastic (mus, P_{388} , 4mg/kg, biotic prolonged rate = 65%, 50 μ g/kg, biotic prolonged rate > 25%); cytotoxic (KB, $ED_{50} = 0.01\mu$ g/mL). **Source:** MEI ZHOU KU MU *Quassia amara*. **Ref:** 661, 658.

**18299 Quassin**

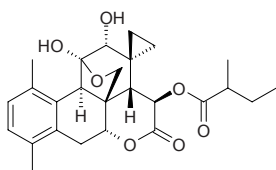
[76-78-8] $C_{22}H_{28}O_6$ (388.46). **Pharm:** Anthelmintic (anti-pinworm *Ascaris vermicularis*); bitter principle (very bitter taste); inhibits heart (mammal, heart rate and amplitude); stomachic; LD (rbt, iv) = 0.14g. **Source:** KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], CHU BAI PI *Ailanthus altissima*, KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], MEI ZHOU KU MU *Quassia amara* (in 1836, the compound was first isolated from the plant by Winkler)^[5505]. **Ref:** 12, 658, 5501, 5505.

**18300 Quassinoid PC03-579A**

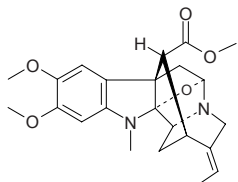
$C_{25}H_{32}O_7$ (444.53). Oil **Source:** GAO CHU *Ailanthus excelsa*. **Ref:** 2051.

**18301 Quassinoid PC03-579B**

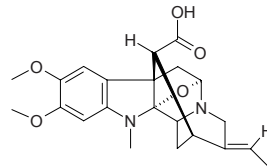
$C_{26}H_{32}O_7$ (456.54). Oil **Source:** GAO CHU *Ailanthus excelsa*. **Ref:** 2051.

**18302 Quaternine**

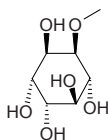
$C_{23}H_{28}N_2O_5$ (412.49). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0003%). **Ref:** 3020.

**18303 Quaternine**

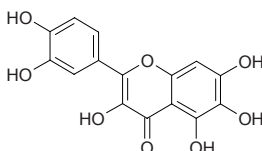
Alspopicalamine [57499-02-2] $C_{23}H_{28}N_2O_5$ (412.49). Crystals (MeOH), mp 153°C, $[\alpha]_D^{20} = -27^\circ$ ($c = 0.4$, $CHCl_3$). **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*, DA YE TANG JIAO SHU *Alstonia macrophylla*, SI SHU JI GU CHANG SHAN *Alstonia quaternata*, *Alstonia legouixiae*, *Rauwolfia oreogiton*, *Rauwolfia volkensii*. **Ref:** 660, 1521.

**18304 L-Quebrachitol**

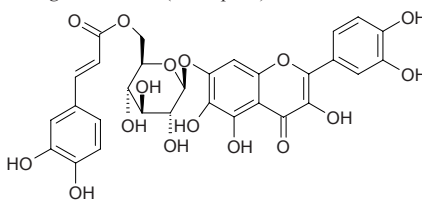
$C_7H_{14}O_6$ (194.19). mp (–) 191°C. **Pharm:** Biosynthetic precursor of some drugs. **Source:** XIANG JIAO SHU *Hevea brasiliensis*, AI YE *Artemisia argyi*. **Ref:** 6, 658.

**18305 Quercetagetin**

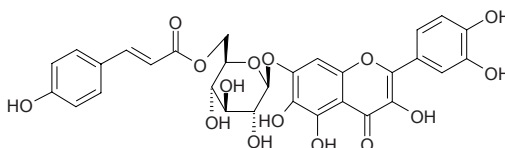
[90-18-6] $C_{15}H_{10}O_8$ (318.24). mp 318–320°C. **Pharm:** Antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*). **Source:** DA BAI DING CAO *Senecio oryzetorum*, HAI ER CHA *Acacia catechu*, KONG QUE CAO *Tagetes patula*. **Ref:** 6, 658.

**18306 Quercetagetin-7-O-(6-O-caffeoyl-β-D-glucopyranoside)**

$C_{30}H_{26}O_{16}$ (642.53). Yellow crystals, mp 198–200°C, $[\alpha]_D = -248^\circ$ ($c = 0.501$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (2.73 \pm 0.04)\mu$ mol/L, control Quercetin, $IC_{50} = (6.11 \pm 0.53)\mu$ g/mL). **Source:** ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). **Ref:** 5318.

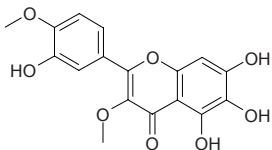
**18307 Quercetagetin-7-O-(6-O-p-coumaroyl-β-D-glucopyranoside)**

$C_{30}H_{26}O_{15}$ (626.53). Yellow powder, mp 224–226°C, $[\alpha]_D = -193^\circ$ ($c = 0.321$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (3.29 \pm 0.05)\mu$ mol/L, control Quercetin, $IC_{50} = (6.11 \pm 0.53)\mu$ g/mL). **Source:** ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). **Ref:** 5318.

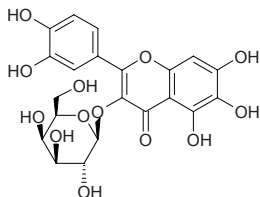


18308 Quercetagenin-3,4'-dimethyl ether

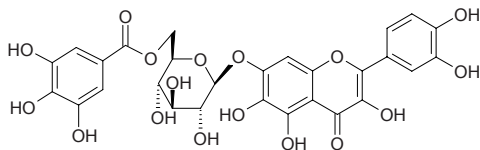
$C_{17}H_{14}O_8$ (346.30). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**18309 Quercetagenin-3-galactoside**

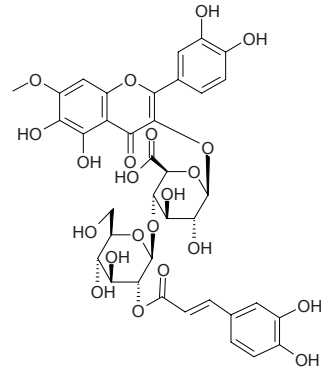
$C_{21}H_{20}O_{13}$ (480.39). mp 200°C. Source: DI YANG QUE *Lotus corniculatus*. Ref: 6.

**18310 Quercetagenin-7-O-(6-O-galloyl-β-D-glucopyranoside)**

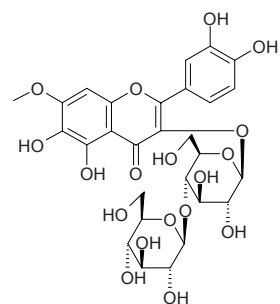
$C_{28}H_{24}O_{17}$ (632.49). Yellow amorphous powder, $[\alpha]_D^{25} = -235^\circ$ ($c = 0.085$, MeOH). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = (6.91 \pm 0.02) \mu\text{mol/L}$, control Quercetin, $IC_{50} = (6.11 \pm 0.53) \mu\text{g/mL}$). Source: ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). Ref: 5318.

**18311 Quercetagenin 7-methylether-3-O-[2-O-caffeoyl-β-D-glucopyranosyl(1→2)-O-β-D-glucuronopyranoside]**

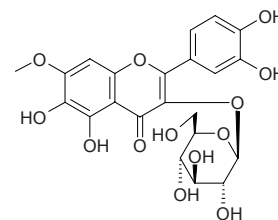
$C_{37}H_{36}O_{22}$ (832.69). $[\alpha]_D^{25} = -30.6^\circ$ ($c = 0.1$, MeOH). Source: *Paepalanthus vellozioides*, *Paepalanthus latipes*. Ref: 2290.

**18312 Quercetagenin 7-methylether 3-O-cellobioside**

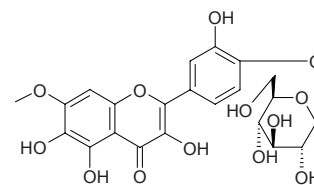
$C_{28}H_{32}O_{18}$ (656.56). $[\alpha]_D^{25} = -11.4^\circ$ ($c = 0.1$, MeOH). Source: *Paepalanthus vellozioides*, *Paepalanthus latipes*. Ref: 2290.

**18313 Quercetagenin 7-methylether-3-O-β-D-glucopyranoside**

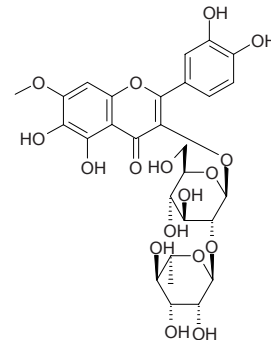
$C_{22}H_{22}O_{13}$ (494.41). $[\alpha]_D^{25} = -12.5^\circ$ ($c = 0.1$, MeOH). Source: *Paepalanthus vellozioides*, *Paepalanthus latipes*. Ref: 2290.

**18314 Quercetagenin 7-methylether-4'-O-β-D-glucopyranoside**

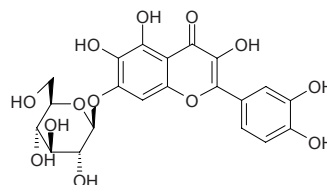
$C_{22}H_{22}O_{13}$ (494.41). $[\alpha]_D^{25} = -7.4^\circ$ ($c = 0.1$, MeOH). Source: *Paepalanthus vellozioides*, *Paepalanthus latipes*. Ref: 2290.

**18315 Quercetagenin 7-methylether 3-O-neohesperidoside**

$C_{28}H_{32}O_{17}$ (640.56). $[\alpha]_D^{25} = -47.2^\circ$ ($c = 0.1$, MeOH). Source: *Paepalanthus vellozioides*, *Paepalanthus latipes*. Ref: 2290.

**18316 Quercetagitrin**

Quercetagenin 7-O-β-D-glucopyranoside [548-75-4] $C_{21}H_{20}O_{13}$ (480.39). mp 236–238°C (dec). Pharm: Antioxidant (DPPH scavenger, $IC_{50} = (5.08 \pm 0.03) \mu\text{mol/L}$, control Quercetin, $IC_{50} = (6.11 \pm 0.53) \mu\text{g/mL}$)^[5318]. Source: DA BAI DING CAO *Senecio oryzetorum*, KONG QUE CAO *Tagetes patula*, XUAN FU HUA *Inula britannica*, ZUI DA WAN SHOU JU *Tagetes maxima* (aerial parts). Ref: 6, 660, 5318.



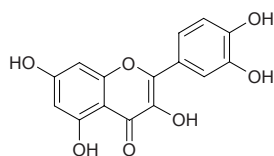
18317 Quercetin

2,(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one [117-39-5]
C₁₅H₁₀O₇ (302.24). Yellow acicular crystals (methanol), mp 313–314°C.

Pharm: Anti-HIV-1 (RT (RDDP)inhibitor, IC₅₀ = 43μmol/L, positive control Adriamycin, IC₅₀ = 27μmol/L; DDDP inhibitor, IC₅₀ > 100μmol/L, positive control Adriamycin, IC₅₀ = 6μmol/L; HIV-1 IN inhibitor, IC₅₀ = 15μmol/L, positive control suramin, IC₅₀ = 2.4μmol/L)^[4187]; antiasthmatic (used as a cure for chronic bronchitis); antibacterial; antihepatotoxin; antihypertensive; anti-inflammatory (COX-1 inhibitor, 200μmol/L, InRt = (44±2)%, positive control Indomethacin, 1.7μmol/L, InRt = (43±3)%); antitussive; antiviral; coronary vasodilator (increases coronary flow); antitussive (dispels phlegm); antihypercholesterolemic; 5-HT inhibitor; smooth muscle relaxant; platelet aggregation inhibitor; 3',5'-cAMP-phosphodiesterase inhibitor; fatty acid synthetase inhibitor; aldose reductase inhibitor (eye lens); protein kinase C inhibitor; antihypertensive; reduces blood capillary brittleness; antioxidant (DPPH scavenger, EC₅₀ = 1.5μg/mL = 5.0μmol/L, control Ascorbic acid, EC₅₀ = 1.6μg/mL = 9.1μmol/L)^[4154]; antioxidant (DPPH scavenger, IC₅₀ = 17.5μmol/L, control Vitamin E, IC₅₀ = 27.0μmol/L)^[4502]; DPPH scavenger (IC₅₀ = (11.6±0.7)μmol/L, control Trolox, IC₅₀ = (25.4±0.8)μmol/L)^[4244]; DPPH scavenger (SC₅₀ = 3.3μmol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazane formation activity = 72μmol/L)^[4247]; antioxidant (DPPH scavenger, IC₅₀ = 3.7nmol/mL^[3507], IC₅₀ = (6.11±0.53)μg/mL^[5318], IC₅₀ = (9.7±0.8)μmol/L^[5493]); antioxidant (DPPH scavenger, TLC, MIA < 0.05μg, IC₅₀ = 7μg/mL)^[3785, 5247]; antioxidant (DPPH scavenger, TLC, MIA = 1μg)^[5385]; antioxidant (chemiluminescence method, IC₅₀ = (0.53±0.01)μmol/L)^[3764]; antioxidant (PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced, IC₅₀ = (0.5±0.05)μmol/L)^[5371]; IL-10-like activity (proliferation assay, dose-dependent, maximal at 30μg/mL)^[4445]; aldose reductase inhibitor (IC₅₀ = 2.2μmol/L, control Epalrestat, IC₅₀ = 0.072μmol/L)^[4530]; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated TNF-α and IL-6 release in RAW264.7 macrophages, IC₅₀ = 1μmol/L)^[4416]; leukocyte elastase MMP-2/9 inhibitor^[4416]; TNF-α secretion inhibitor (LPS-stimulated RAW264.7 macrophages, IC₅₀ < 200μg/mL, by interfering with phosphorylation and activation of JNK/SAPK and its downstream substrates c-Jun and ATF-2, and ERK1/2 and p38 MAPK)^[4416]; inhibits activation of transcription factor AP-1^[4416]; TNF-α production inhibitor (murine macrophages, LPS-stimulated, IC₅₀ < 20μmol/mL)^[4416]; anti-inflammatory (macrophages, COX-2 inhibitor, inhibits COX-2 expression)^[4415]; anti-inflammatory (NF-κB pathway)^[4415]; anti-inflammatory (NO production inhibitor, mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, IC₅₀ = 26.8μmol/L)^[2537, 2556]; anti-inflammatory (NO production inhibitor, mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN-γ, IC₅₀ = 24.8μmol/L)^[2541]; xanthine oxidase inhibitor (IC₅₀ = 3.4μg/mL, IC₅₀ = 10μmol/L)^[5250]; LD₅₀ (mus, orl) = 160mg/kg. **Source:** A LA BO JIAO JIN HE HUAN *Acacia nilotica*, BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba* (leaf: mean content of 3 samples = 2.55%)^[5508], BEI SHA SHEN *Glehnia littoralis* (underground part), BIAN DI JIN *Hypericum wightianum* (dried whole herb: content = 0.1465%)^[5508], BIAN TAO *Mangifera persiciformis*, BIAN XU *Polygonum aviculare* (aerial parts: content = 0.0902%), CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*] (dried leaf: content scope of 14 origins = 0.17%–0.33%,

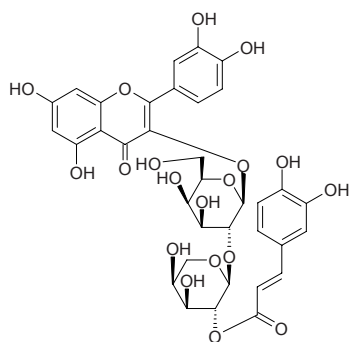
mean content = 0.25%)^[5508], CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: mean content = 0.095%)^[5508], CHENG LIU *Tamarix chinensis*, CHUAN BA JIAO LIAN *Dysosma veitchii*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (root and rhizome: content = 0.069%)^[5508], CU LIU GUO *Hippophae rhamnoides* (leaf: content = 0.016%)^[5508], DA JIN QIAN CAO *Lysimachia christinae*, DA TU SI ZI *Cuscuta japonica* (ripe fruit: mean content = 0.0141%)^[5508], DI JIN CAO *Euphorbia humifusa* (aerial parts: content = 0.0092%)^[5508], DU ZHONG YE *Eucommia ulmoides* (leaf: content = 0.019%)^[5508], DUO SUI LIAO *Polygonum polystachyum*, FENG JIAO *Apis mellifera ligustica* (bee glue: mean content of 5 beach samples = 0.41%)^[5508], GAO LIANG JIANG *Alpinia officinarum*, GUAN YE LIAN QIAO *Hypericum perforatum* (whole herb: mean content = 0.072%)^[5508], HONG HUA *Carthamus tinctorius* (flower: mean content of 4 origins = 0.49%)^[5508], HONG MA *Apocynum lancifolium*, HU ZHANG *Polygonum cuspidatum*, HUAI JIAO *Sophora japonica*, HUAI *Sophora japonica* (flower), HUANG HAI TANG *Hypericum ascyron* (dried whole herb: content = 0.1107%)^[5508], HUANG HUA HAO *Artemisia annua*, HUANG QI *Astragalus membranaceus* (Dried root: mean content of 5 origins = 0.018%)^[5519], HUANG SHU KUI HUA *Abelmoschus manihot*, JI WU BING JIN SI TAO *Hypericum subsessile* (dried whole herb: content = 0.0733%)^[5508], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0099%dw^[4723], yield = 0.021%dw^[3014]), JIAN YE YIN YANG HUO *Epimedium sagittatum*, JIN SI MEI *Hypericum patulum* (dried whole herb: content = 0.6401%)^[5508], KU HAO *Conyza blinii*, KUAN YE XIANG PU *Typha latifolia*, LANG PA CAO *Bidens tripartita* (whole herb: mean content = 0.061%)^[5508], LAO SHU LE *Acanthus ilicifolius*, LI JIANG QIAN HU *Peucedanum govanianum* var. *bicolor*, LIANG SHAN DU JUAN *Rhododendron huianum* (leaf: content = 0.048%)^[5508], LING NAN DU JUAN *Rhododendron mariae* (branchlet-leaf or flower: content = 0.6448%)^[5508], LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00026%dw)^[4732], LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], LUO BU MA *Apocynum venetum* (dried leaf: content scope = 0.0073%–0.0277%)^[5501]; content scope of 6 origins = 0.0018%–0.0165%, mean content = 0.0090%)^[5529], LUO YE SONG YE JIN SI TAO *Hypericum laricifolium* (aerial parts), MAN SHAN HONG *Rhododendron dauricum* (leaf: mean content of 11 origins = 0.099%)^[5508], MANG NIU ER MIAO *Erodium stephanianum*, MAO GUO DU JUAN *Rhododendron seniavinii* (branchlet-leaf or flower: content = 0.2097%)^[5508], MAO YAN CAO *Euphorbia lumulata* (whole herb), MU ZEI *Equisetum hiemale* (aerial parts: mean content = 0.179%)^[5508], NAN FANG TU SI ZI *Cuscuta australis* (ripe fruit: mean content = 0.0069%)^[5508], PI JIU HUA TU SI ZI *Cuscuta lupuliformis* (ripe fruit: mean content = 0.0061%)^[5508], PU HUANG *Typha angustata*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RI BEN LU TI CAO *Pyrola japonica*, RU YUAN DU JUAN *Rhododendron lingii* (branchlet-leaf or flower: content = 0.1752%)^[5508], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*] (content = 0.027%)^[5501], SANG YE *Morus alba* (leaf: mean content = 0.0107%)^[5508], SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.00063%fw)^[4689], SHI WEI *Pyrrosia lingua* (dried leaf: mean content = 0.11%)^[5508], SHI ZHI JIA *Sedum sarmentosum* (whole herb: mean content of 10 origins = 0.131%)^[5532], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii*

(leaf: yield = 0.00017%dw)^[4722], TU SI ZI *Cuscuta chinensis* (ripe fruit: content scope = 0.119%–0.204%^[5501], mean content = 0.150%^[5508]), WEI LING CAI *Potentilla chinensis*, WEN GUAN MU *Xanthoceras sorbifolia* (stem and trunk: mean content = 0.011%^[5508]), XI SHU *Camptotheca acuminata*, XIA YE XIANG PU *Typha angustifolia*, XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAN REN ZHANG *Opuntia dillenii* (fresh stem), XUAN FU HUA *Inula britannica*, YANG PU TAO YE *Syzygium samarangense*, YAO YONG PU GONG YING *Taraxacum officinale*, YE XIA ZHU *Phyllanthus urinaria* (whole herb: mean content = 0.042%^[5508]), YI BI LI YA LI *Quercus iberica*, YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), YOU SE ZI JIN NIU *Ardisia colorata* (fruit), YU XING CAO *Houttuynia cordata*, YUAN BAO CAO *Hypericum sampsonii* (dried whole herb: content = 0.0079%^[5508]), YUN SHI *Caesalpinia decapetala* (leaf), ZHAI YE BAN FENG HE *Pterospermum lanceaefolium*, ZHAN E JIN SI TAO *Hypericum lancasteri* (dried whole herb: content = 0.1595%^[5508]), ZHAO SHAN BAI *Rhododendron micranthum* (leaf: content scope from Feb. to Nov. 0.10%–0.47%, mean content = 0.29%^[5508]), ZHEN ZHU MEI *Sorbaria sorbifolia* (bark: content = 0.62%^[5508]), ZHONG GUO SHA JI *Hippophae rhamnoides* subsp. *sinensis* (leaf: content = 0.006%^[5508]), ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, ZHONG YA SHA JI *Hippophae rhamnoides* subsp. *turkestanica* (leaf: content = 0.007%^[5508]), ZI WAN *Aster tataricus* (root and rhizome: content = 0.0104%^[5508]), occurs in many plants (esp. in fruits, for example detected in almost all studied in family Apiaceae spp.). Ref: 2, 4, 468, 475, 550, 557, 594, 604, 615, 658, 660, 2080, 2537, 2541, 2556, 3014, 3507, 3764, 3785, 4013, 4097, 4154, 4187, 4205, 4244, 4247, 4413, 4415, 4416, 4445, 4456, 4502, 4530, 4689, 4722, 4723, 4732, 5247, 5250, 5318, 5371, 5375, 5385, 5493, 5501, 5508, 5519, 5529, 5532.



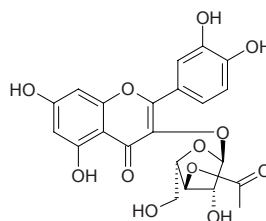
18318 Quercetin-3-O-(2-E-caffeoyl)- α -L-arabinopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside

C₃₅H₃₄O₁₉ (758.65). Yellow amorphous powder, $[\alpha]_D^{25} = -70^\circ$ ($c = 0.1$, MeOH). Source: LV TI GEN CAO *Helleborus viridis* (leaf). Ref: 3875.



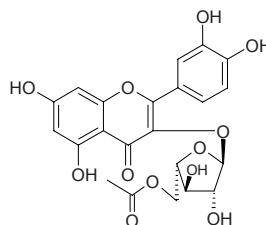
18319 Quercetin-3-O- α -L-(3''-O-acetyl)-arabinofuranoside

C₂₂H₂₀O₁₂ (476.40). Pharm: Hepatoprotective (primary cultures of rat hepatocytes, H₂O₂-induced toxicity, 50 μ mol/L, relative protection = 45.7%, H₂O₂-treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 4996.



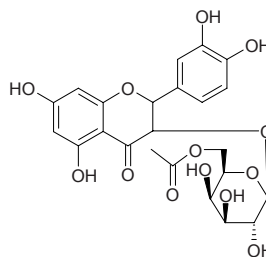
18320 Quercetin-3-O- α -L-(5''-O-acetyl)-arabinofuranoside

C₂₂H₂₀O₁₂ (476.40). Yellow powder, mp 186°C, $[\alpha]_D^{20} = -96.3^\circ$ ($c = 0.1$, MeOH). Pharm: Hepatoprotective (primary cultures of rat hepatocytes, H₂O₂-induced toxicity, 50 μ mol/L, relative protection = 44.5%, H₂O₂-treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts). Ref: 4996.



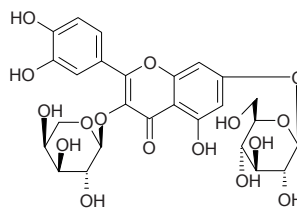
18321 Quercetin-3-O-(6''-acetyl)- β -D-galactopyranoside

C₂₃H₂₄O₁₃ (508.44). Source: SAN XIAO CAO *Trifolium repens* (flower). Ref: 3970.



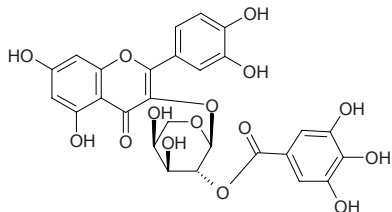
18322 Quercetin-3-L-arabino-7-D-glucoside

C₂₆H₂₈O₁₆ (596.50). Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 6.

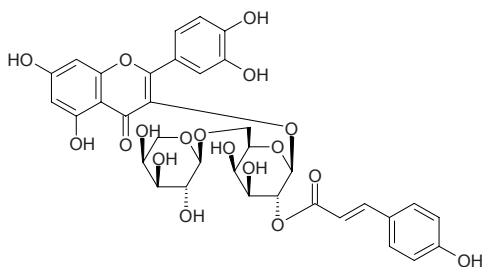


18323 Quercetin-3-O- α -arabinopyranoside-2''-gallate

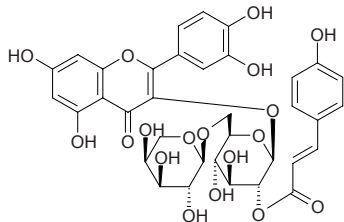
[128700-95-8] C₂₇H₂₂O₁₅ (586.47). Yellow prisms (MeOH-H₂O), mp 192–193°C, [α]_D = -125° (c = 0.33, MeOH). **Pharm:** antioxidant (rbt, peroxidation of erythrocytic membrane, IC₅₀ = 34 μ mol/L); xanthinoxidase inhibitor (IC₅₀ = 60 μ mol/L); SOD activity (activity = 90 units/mg). **Source:** CHANG HUI AN *Eucalyptus rostrata*, *Lasiobema japonica*. **Ref:** 1737, 4019, 4020.

**18324 Quercetin-3-O- α -L-arabinopyranosyl-(1→6)-[2''-O-(E)-p-coumaroyl]- β -D-galactopyranoside**

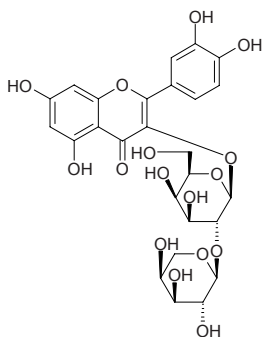
C₃₅H₃₄O₁₈ (742.65). Yellow solid, [α]_D¹⁷ = -46° (c = 0.44, MeOH). **Source:** ZHAI YE YE WAN DOU *Vicia angustifolia*. **Ref:** 1917.

**18325 Quercetin-3-O- α -L-arabinopyranosyl-(1→6)-[2''-O-(E)-p-coumaroyl]- β -D-glucopyranoside**

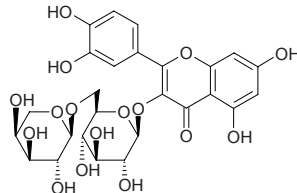
C₃₅H₃₄O₁₈ (742.65). Yellow solid, [α]_D¹⁷ = -90° (c = 0.73, MeOH). **Source:** ZHAI YE YE WAN DOU *Vicia angustifolia*. **Ref:** 1917.

**18326 Quercetin-3-O- α -L-arabinopyranosyl-(1→2)- β -D-galactopyranoside**

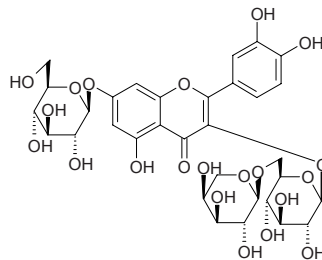
C₂₆H₂₈O₁₆ (596.50). Yellow amorphous powder, [α]_D²⁵ = -43° (c = 0.1, MeOH). **Source:** LV TI GEN CAO *Helleborus viridis* (leaf). **Ref:** 3875.



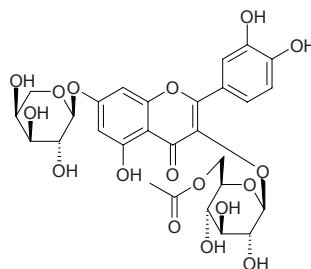
18327 Quercetin-3-O- α -arabinopyranosyl(1'''→6'')- β -glucopyranoside β -Vicianosyl-3-quercetin C₂₆H₂₈O₁₆ (596.50). Yellow solid (MeOH), mp 200–202°C. **Source:** KU DI DING *Corydalis bungeana* (whole herb), XING CAI *Nymphoides peltatum*. **Ref:** 6, 3880.

**18328 Quercetin-3-O- α -arabinopyranosyl(1'''→6'')- β -glucopyranoside 7-O- β -glucopyranoside**

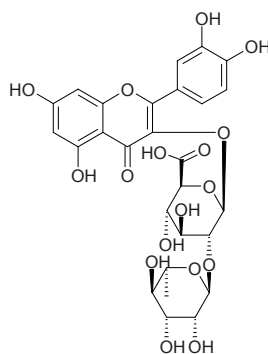
C₃₂H₃₈O₂₁ (758.65). Yellow solid (MeOH). **Source:** KU DI DING *Corydalis bungeana* (whole herb). **Ref:** 3880.

**18329 Quercetin-7-O- α -L-Arabinosyl-3-O- β -D''-acetyl glucopyranoside**

C₂₈H₃₀O₁₇ (638.54). Yellow amorphous powder, mp 223–225°C, [α]_D²³ = -26.19° (c = 0.420, DMSO). **Source:** HONG YA DA JI *Knoxia valerianoides*. **Ref:** 4841.

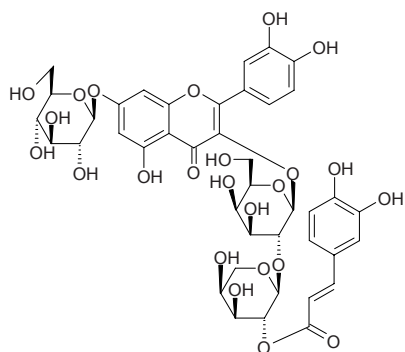
**18330 Quercetin-3-O-(2''-O-rhamnopyranosyl)- β -glucuronopyranoside**

C₂₇H₂₈O₁₇ (624.51). **Pharm:** Antioxidant (DPPH scavenger, SC₅₀ = 5.0 μ mol/L, control Vitamin E, SC₅₀ = 5.2 mmol/L). **Source:** LAO YA SHI *Diospyros rhombifolia* (leaf). **Ref:** 4464.



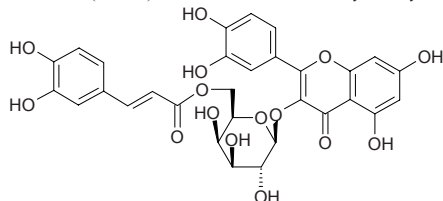
18331 Quercetin-3-O-(2-E-caffeoyl)- α -L-arabinopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside-7-O- β -D-glucopyranoside

C₄₁H₄₄O₂₄ (920.79). Yellow amorphous powder, $[\alpha]_D^{25} = -42^\circ$ ($c = 0.1$, MeOH). Source: LV TI GEN CAO *Helleborus viridis* (leaf). Ref: 3875.



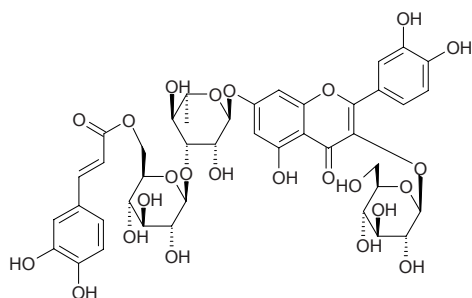
18332 Quercetin-3-O- β -D-(6''-caffeoyl galactoside)

C₃₀H₂₆O₁₅ (626.53). Source: TIAN HU SUI *Hydrocotyle sibthorpioides*. Ref: 4036.



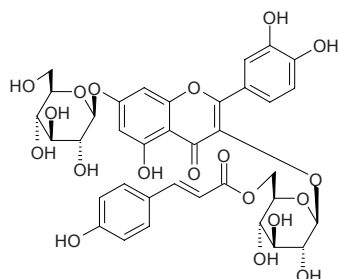
18333 Quercetin-7-O-(6-trans-caffeoyl)- β -glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranoside-3-O- β -glucopyranoside

C₄₂H₄₆O₂₃ (934.82). Amorphous orange-yellow powder, mp 185~187°C, $[\alpha]_D^{25} = -38.3^\circ$ ($c = 0.1$, MeOH). Source: *Aconitum napellus* ssp. *neomontanum* (flower). Ref: 5148.



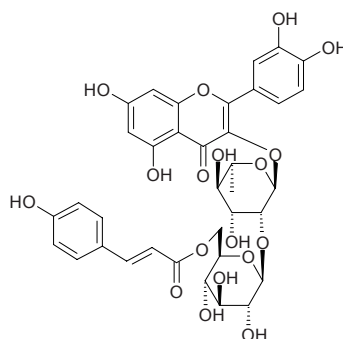
18334 Quercetin-3-O- β -(6''-E-p-coumaroyl)glucopyranoside)-7-O- β -glucopyranoside

C₃₆H₃₆O₁₉ (772.68). Faint yellow amorphous powder. Source: DUO YE BAI MAI GEN *Lotus polyphyllus*. Ref: 1973.



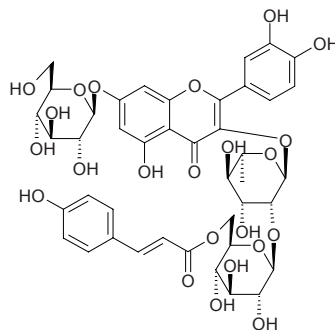
18335 Quercetin-3-O- α -L-[6'''-p-coumaroyl-(β -D)-glucopyranosyl-(1,2)-rhamnopyranoside]

C₃₆H₃₆O₁₈ (756.68). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 14.0 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ = 13.2 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL). Source: BAI GUO YE *Ginkgo biloba*. Ref: 5239.



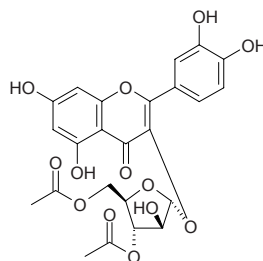
18336 Quercetin-3-O- α -L-[6'''-p-coumaroyl-(β -D)-glucopyranosyl-(1,2)-rhamnopyranoside]-7-O- β -D-glucopyranoside

C₄₂H₄₆O₂₃ (918.82). Pharm: Antioxidant (DPPH scavenger, IC₅₀ = 14.5 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ = 13.5 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL). Source: BAI GUO YE *Ginkgo biloba*. Ref: 5239.



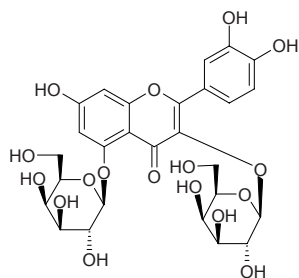
18337 Quercetin-3-O- α -L-3'',5''-diacetyl-arabinofuranoside

C₂₄H₂₂O₁₃ (518.44). Dark yellow powder, $[\alpha]_D^{20} = -102.3^\circ$ ($c = 0.17$, MeOH). Source: RI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts: yield = 0.00047%dw). Ref: 1179.

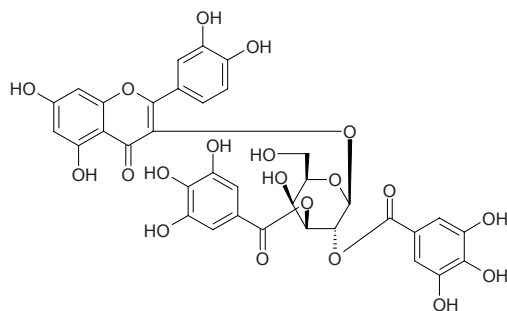


18338 Quercetin-3,5-di-*D*-galactoside

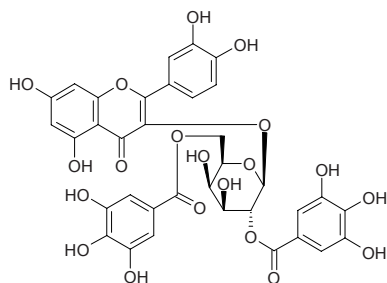
$C_{27}H_{30}O_{17}$ (626.53). mp 196~197°C, 219~220°C (solidifying), 270°C. Source: ZE QI *Euphorbia helioscopia*. Ref: 6.

**18339 Quercetin-3-*O*-(2'',3'''-digalloyl)- β -*D*-galactopyranoside**

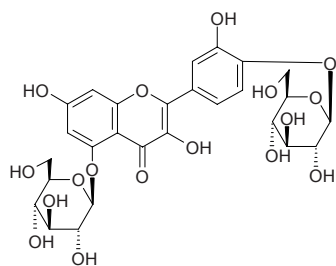
$C_{35}H_{28}O_{20}$ (768.60). Yellow amorphous powder, $[\alpha]_D^{23} = -28.7^\circ$ ($c = 0.30$, MeOH). Pharm: Insulin-like activity (proliferation assay, dose-dependent, maximal at 30 μ g/mL). Source: MAO YAN CAO *Euphorbia lunulata* (whole herb). Ref: 4445.

**18340 Quercetin-3-*O*-(2'',6''-digalloyl)- β -*D*-galactopyranoside**

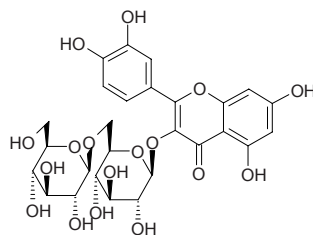
[200860-88-4] $C_{35}H_{28}O_{20}$ (768.60). Yellow amorphous powder, mp 222~224°C (dec), $[\alpha]_D^{21} = -45.9^\circ$ ($c = 0.4$, MeOH). Pharm: Anti-HIV (HIV-1 integrase inhibitor, $IC_{50} = (24.2 \pm 6.6)\mu$ g/mL). Source: CHAO XIAN WU JIAO FENG *Acer okamotoanum*. Ref: 4025.

**18341 Quercetin-5,4'-di-*O*- β -*D*-glucopyranoside**

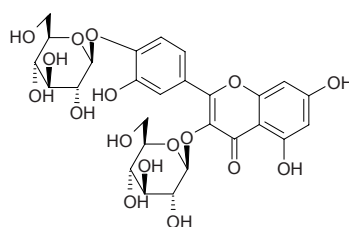
$C_{27}H_{30}O_{17}$ (626.53). Source: CAN JIAN *Bombyx mori*. Ref: 1983.

**18342 Quercetin-3-diglucoside**

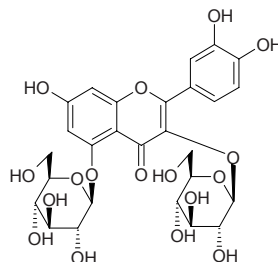
Meratin [27215-04-9] $C_{27}H_{30}O_{17}$ (626.53). mp 182~184°C. Source: DUO SUI LIAO *Polygonum polystachyum*, FU SANG HUA *Hibiscus rosa-sinensis*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*]. Ref: 6.

**18343 Quercetin-3,4'-diglucoside**

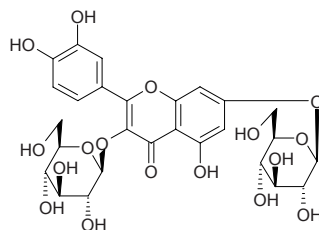
$C_{27}H_{30}O_{17}$ (626.53). Source: HU CONG *Allium ascalonicum*, YANG CONG *Allium cepa*. Ref: 6.

**18344 Quercetin-3,5-diglucoside**

$C_{27}H_{30}O_{17}$ (626.53). Source: NING MENG PI *Citrus limon*. Ref: 6, 660.

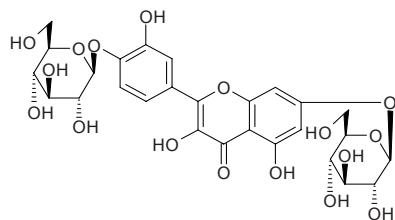
**18345 Quercetin-3,7-diglucoside**

Quercetin-3,7-di-*O*- β -*D*-glucopyranoside $C_{27}H_{30}O_{17}$ (626.53). mp 218~220°C. Pharm: Aldose reductase inhibitor (rat lens, $IC_{50} = 84\mu$ mol/L, control Epalrestat, $IC_{50} = 0.072\mu$ mol/L). Source: FU SANG HUA *Hibiscus rosa-sinensis*, YE JU HUA *Chrysanthemum indicum* (flower: yield = 0.0038%). Ref: 6, 4214.

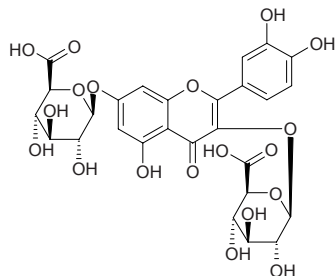


18346 Quercetin-7,4'-diglucoside

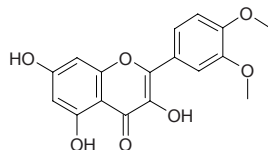
$C_{27}H_{30}O_{17}$ (626.53). Source: HU CONG *Allium ascalonicum*, YANG CONG *Allium cepa*. Ref: 6.

**18347 Quercetin-3,7-diglucuronide**

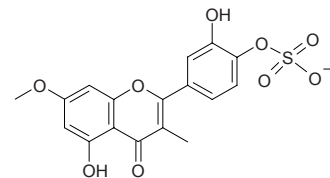
$C_{27}H_{26}O_{19}$ (654.50). Source: JIN JIN BANG *Potentilla reptans* var. *sericophylla*. Ref: 6.

**18348 Quercetin-3',4'-dimethyl ether**

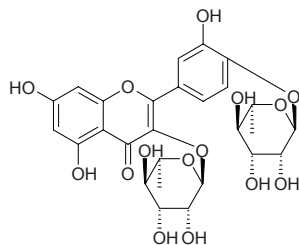
$C_{17}H_{14}O_7$ (330.30). Source: CHENG LIU *Tamarix chinensis* (dried tender branch-leaf: content = 0.115%^[5508]), DUO ZHI CHENG LIU *Tamarix ramosissima* (dried tender branch-leaf: content = 0.064%^[5508]). Ref: 115, 5508.

**18349 Quercetin-3-methyl-7-methyl ether-4'-sulfate**

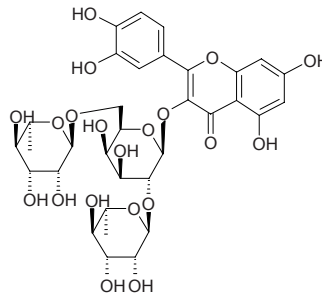
$C_{17}H_{13}O_9S$ (393.35). Source: RUI SHI QIAN NIU *Ipomoea regnellii*. Ref: 1891.

**18350 Quercetin-3,4'-di-O-α-L-rhamnopyranoside**

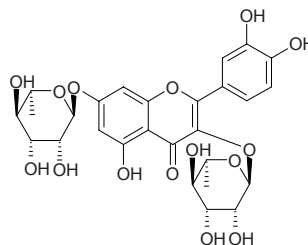
$C_{27}H_{30}O_{15}$ (594.53). Yellow amorphous powder. Source: SHUANG ZHONG ZI SHU LI *Rhamnus disperma*. Ref: 2380.

**18351 Quercetin-3-O-(2'',6''-α-L-dirhamnopyranosyl)-β-D-galactopyranoside**

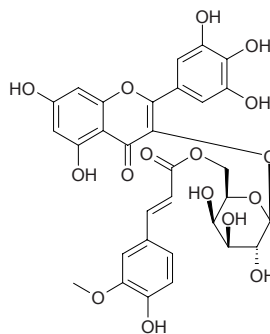
$C_{33}H_{40}O_{20}$ (756.67). Pharm: Aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, $IC_{50} > 30 \mu\text{mol/L}$, $30 \mu\text{mol/L}$ InRt = 40%; control Epalrestat, $IC_{50} = 0.072 \mu\text{mol/L}$). Source: BAI MEI HUA *Prunus mume* (flower: yield = 0.010%fw). Ref: 4641.

**18352 Quercetin-3,7-α-L-dirhamnoside**

$C_{27}H_{30}O_{15}$ (594.53). mp 185~186°C. Source: NAN SHE TENG YE *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 6.

**18353 Quercetin-3-O-(6''-feruloyl)-β-D-galactopyranoside**

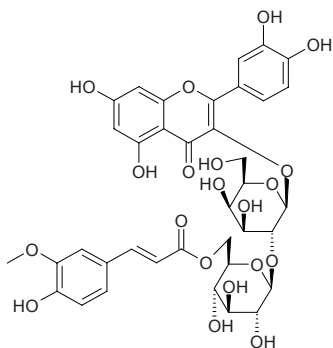
$C_{31}H_{28}O_{16}$ (656.56). Gum. Source: NIAN MAO LIAO *Polygonum viscosum* (whole herbs). Ref: 3955.



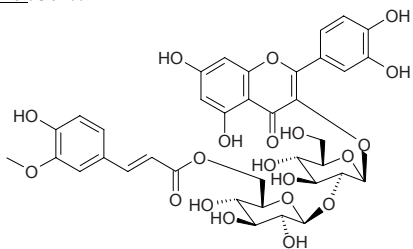
18354 Quercetin-3-O-[(6-O-feruloyl)-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside]

$C_{37}H_{38}O_{20}$ (802.70). Dark yellow amorphous powder, mp 207–210°C, $[\alpha]_D^{25} = -0.058^\circ$ ($c = 0.1$, MeOH). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} = 20\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 27\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} = 42\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; HIV-1 IN inhibitor, $IC_{50} = 5\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$)^[4187]; Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, $0.1\mu\text{mol/L}$, cell viability = $(62.7\pm 1.1)\%$, $p < 0.001$, $1.0\mu\text{mol/L}$, cell viability = $(72.9\pm 3.3)\%$, $p < 0.001$, $10\mu\text{mol/L}$, cell viability = $(75.0\pm 0.2)\%$, $p < 0.001$)^[3027].

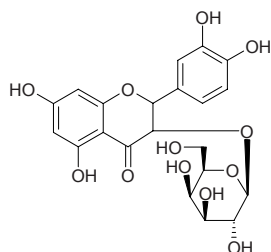
Source: HUANG HUA JIA ZHU TAO *Thevetia neriifolia* [Syn. *Thevetia peruviana*] (leaf), BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00036%). **Ref:** 4187, 3027.

**18355 Quercetin-3-O-[2-O-(6-O-E-feruloyl)-β-D-glucopyranosyl]-β-D-glucopyranoside**

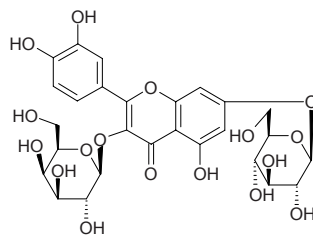
$C_{37}H_{38}O_{20}$ (802.7). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, $0.1\mu\text{mol/L}$, cell viability = $(62.6\pm 2.9)\%$, $p < 0.001$, $1.0\mu\text{mol/L}$, cell viability = $(71.5\pm 1.6)\%$, $p < 0.001$, $10\mu\text{mol/L}$, cell viability = $(73.7\pm 2.7)\%$, $p < 0.001$). **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00039%). **Ref:** 3027.

**18356 Quercetin-3-O-β-D-galactopyranoside**

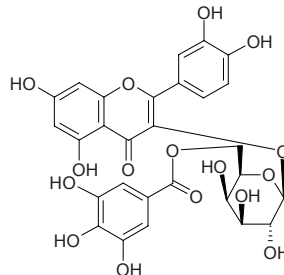
$C_{21}H_{22}O_{12}$ (466.40). **Source:** SAN XIAO CAO *Trifolium repens* (flower). **Ref:** 3970.

**18357 Quercetin-3-O-β-D-galactoside-7-O-β-D-glucoside**

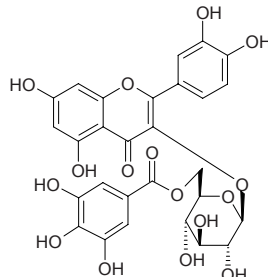
$C_{27}H_{30}O_{17}$ (626.53). **Source:** TU SI ZI *Cuscuta chinensis*. **Ref:** 4031.

**18358 Quercetin-3-O-(6''-galloyl)-galactoside**

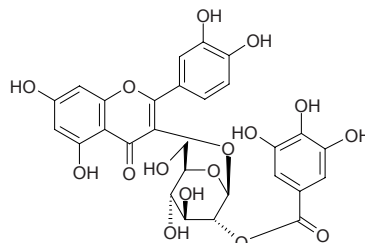
$C_{28}H_{24}O_{16}$ (616.49). **Pharm:** ACE inhibitor ($IC_{50} = 160\mu\text{mol/L}$, control Lisinopril, $IC_{50} = 1\text{nmol/L}$); NEP inhibitor ($IC_{50} = 120\mu\text{mol/L}$, control Phosphoramidon, $IC_{50} = 9\text{nmol/L}$); APN inhibitor inactive. **Source:** HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*]. **Ref:** 5034.

**18359 Quercetin-3-O-(6''-galloyl)-β-D-glucopyranoside**

$C_{28}H_{24}O_{16}$ (616.49). $[\alpha]_D^{25} = -20.8^\circ$ ($c = 0.1$, MeOH). **Pharm:** Antifungal (*Candida albicans* ATCC2091, MIC > 200μg/mL, control Amphotericin B, MIC = 1μg/mL; *Candida albicans* 32, MIC > 200μg/mL, Amphotericin B, MIC = 4μg/mL; *Candida albicans* 19, MIC = 200μg/mL, Amphotericin B, MIC = 2μg/mL); cytotoxic inactive (MIC > 200μg/mL); antibacterial inactive. **Source:** *Baseonema acuminatum* (leaf). **Ref:** 5021.

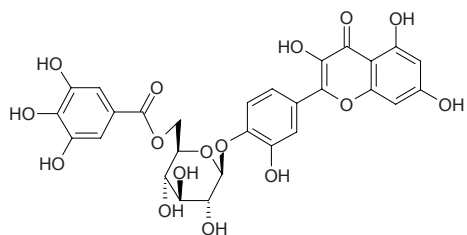
**18360 Quercetin-3-O-(2''-O-galloyl)-β-D-glucoside**

Quercetin-3-β-D-glucoside-2''-galloyl $C_{28}H_{24}O_{16}$ (616.49). **Source:** BAN DI JIN *Euphorbia maculata*, JIE LIAO *Polygonum nodosum*, YU LIAO *Polygonum lapathifolium*. **Ref:** 4032, 4033, 4034.

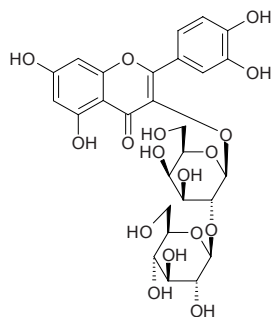


18361 Quercetin-4'-*O*- β -D-glucopyranoside-6''-gallate

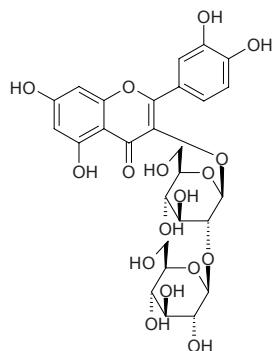
[149998-41-4] C₂₈H₂₄O₁₆ (616.49). Yellow powder. **Pharm:** Xanthinoxidase inhibitor (IC₅₀ = 1.3 μ mol/L); SOD activity (activity = 450units/mg). **Source:** CHANG HUI AN *Eucalyptus rostrata*. **Ref:** 1737, 4020, 4021, 4022.

**18362 Quercetin-3-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside]**

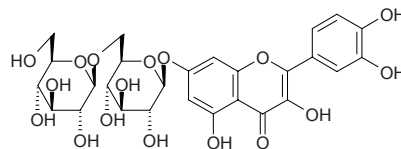
C₂₇H₃₀O₁₇ (626.53). **Pharm:** Neuroprotective (primary cultures of rat cortical cells, induced by *L*-glutamate, 0.1 μ mol/L, cell viability = (48.4 \pm 0.7)%, $p < 0.01$, 1.0 μ mol/L, cell viability = (66.0 \pm 1.6)%, $p < 0.001$, 10 μ mol/L, cell viability = (54.0 \pm 2.9)%, $p < 0.001$)^[3027]; anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ > 100 μ mol/L, positive control Adriamycin, IC₅₀ = 27 μ mol/L; DDDP inhibitor, IC₅₀ > 100 μ mol/L, positive control Adriamycin, IC₅₀ = 6 μ mol/L; HIV-1 IN inhibitor, IC₅₀ > 100 μ mol/L, positive control Suramin, IC₅₀ = 2.4 μ mol/L)^[4187]. **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: yield = 0.00039%)^[3027], HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf). **Ref:** 3027, 4187.

**18363 Quercetin-3-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside]**

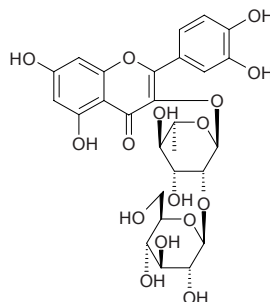
C₂₇H₃₀O₁₇ (626.53). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ = 41 μ mol/L, positive control Adriamycin, IC₅₀ = 27 μ mol/L; DDDP inhibitor, IC₅₀ > 100 μ mol/L, positive control Adriamycin, IC₅₀ = 6 μ mol/L; HIV-1 IN inhibitor, IC₅₀ = 45 μ mol/L, positive control Suramin, IC₅₀ = 2.4 μ mol/L)^[4187]. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf)^[4187], LUO BU MA *Apocynum venetum* (dried leaf: content scope of 6 origins = 0.0%-0.569%, mean content = 0.230%)^[5529]. **Ref:** 4187, 5529.

**18364 Quercetin-7-*O*- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside**

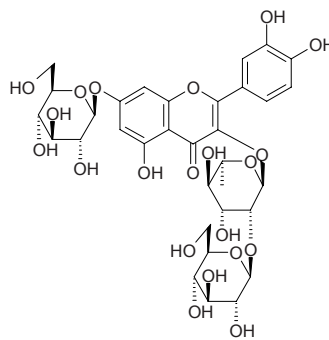
C₂₇H₃₀O₁₇ (626.53). Yellow powder, mp 220°C (dec). **Source:** BO NIANG HAO *Descurainia Sophia*. **Ref:** 2514, 2521.

**18365 Quercetin-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranoside**

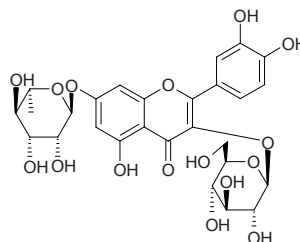
C₂₇H₃₀O₁₆ (610.53). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ = 16.1 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ = 14.8 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL). **Source:** BAI GUO YE *Ginkgo biloba*. **Ref:** 5239.

**18366 Quercetin-3-*O*- α -L-(2-*O*- β -D-glucopyranosyl)rhamnopyranoside-7-*O*- β -D-glucopyranoside**

C₃₃H₄₀O₂₁ (772.67). **Source:** SHUANG HUA FAN HONG HUA *Crocus chrysanthus-biflorus*. **Ref:** 2343.

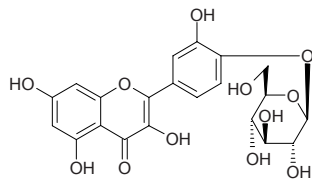
**18367 Quercetin-3- β -D-glucopyranosyl-7- α -L-rhamnoside**

C₂₇H₃₀O₁₆ (610.53). mp 186~188°C. **Source:** TIAO JING CAO *Euonymus japonicus*, NAN SHE TENG YE *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 6.

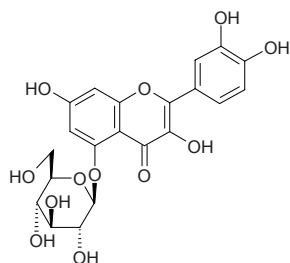


18368 Quercetin-4'-glucoside

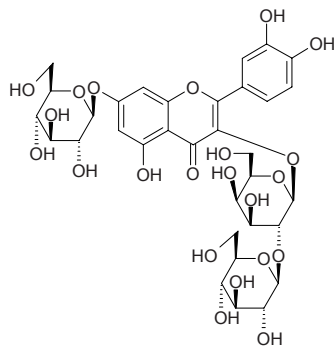
Spiraeoside [20229-56-5] $C_{21}H_{20}O_{12}$ (464.39). mp 209~211°C. **Pharm:** Aldose reductase inhibitor (rat, eye lens, 10 μ mol/L InRt = 51.2%, 1 μ mol/L InRt = 8.9%); antioxidant (rbt, peroxidization of erythrocytic membrane, IC₅₀ = 162 μ mol/L); xanthinoxidase inhibitor (IC₅₀ = 1.3 μ mol/L, 2.5 μ mol/L); cAMP phosphodiesterase inhibitor (IC₅₀ = 100 μ mol/L); hyaluronidase inhibitor. **Source:** HU CONG *Allium ascalonicum*, MU FU RONG HUA *Hibiscus mutabilis*. **Ref:** 6, 1631, 1652, 1653, 1699, 1737.

**18369 Quercetin-5-O-β-D-glucoside**

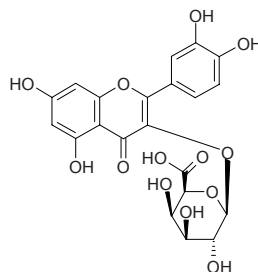
Saxifragin [34199-21-8] $C_{21}H_{20}O_{12}$ (464.39). Yellow needles (MeOH-pyridine), mp 244~246°C, 264°C (dec), $[\alpha]_D^{27} = -105^\circ$ ($c = 0.575$, pyridine). **Source:** HU ER CAO *Saxifraga stolonifera*, LU CAO *Rhaponticum carthamoides*. **Ref:** 1521, 4007, 4028.

**18370 Quercetin-3-O-β-D-glucosyl(1→2)-β-D-galactoside 7-O-β-D-glucoside**

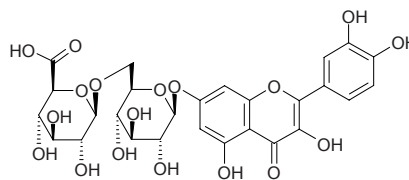
$C_{33}H_{40}O_{22}$ (788.67). Amorphous powder, mp 199~202°C, $[\alpha]_D^{26} = -37^\circ$ ($c = 0.09$, H₂O). **Source:** HU LU BA *Trigonella foenum-graecum* (stem). **Ref:** 5197.

**18371 Quercetin-3-O-glucuronide**

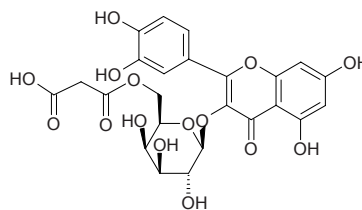
$C_{21}H_{18}O_{13}$ (478.37). **Pharm:** ACE inhibitor (IC₅₀ = 200 μ mol/L, control Lisinopril, IC₅₀ = 1nmol/L); NEP inhibitor (IC₅₀ = 250 μ mol/L, control Phosphoramidon, IC₅₀ = 9nmol/L); APN inhibitor inactive. **Source:** HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*]. **Ref:** 5034.

**18372 Quercetin-7-O-glucuronoglucoside**

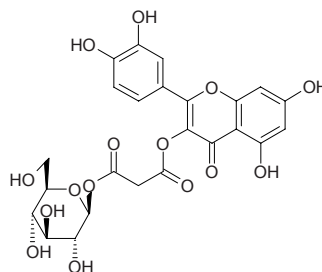
$C_{27}H_{28}O_{18}$ (640.51). **Source:** DA HUA XUAN FU HUA CAO *Imula britannica*. **Ref:** 4030.

**18373 Quercetin-3-O-(6''-malonyl)-D-galactoside**

$C_{24}H_{22}O_{15}$ (550.43). **Source:** ZHU ZONG CAO *Adiantum capillus-veneris*. **Ref:** 4029.

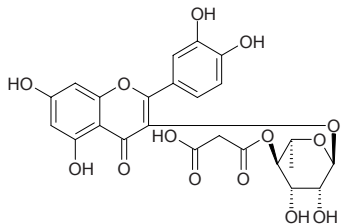
**18374 Quercetin-3-O-malonyl-β-D-glucoside**

$C_{24}H_{22}O_{15}$ (550.43). **Source:** WO JU *Lactuca sativa*. **Ref:** 6.

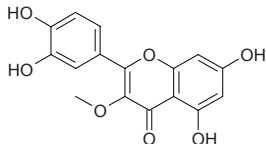


18375 Quercetin-3-O-(4''-O-malonyl)- α -L-rhamnopyranoside

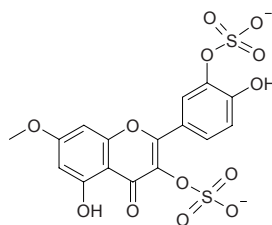
$C_{24}H_{22}O_{14}$ (534.43). Source: GAO SHAN CHA BIAO *Ribes alpinum* (leaf). Ref: 3541.

**18376 Quercetin-3-methyl ether**

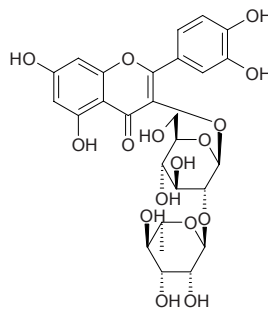
3-O-Methylquercetin; 3-MQ [1486-70-0] $C_{16}H_{12}O_7$ (316.27). Green crystals, mp 267~277°C; 259°C. Pharm: Antiarrhythmic; antibacterial; antiviral (*in vitro*, 0.01 μ g/mL epidemic poliomyelitis virus I and Gesak virus B₄, InRt = 90%); platelet aggregation inhibitor (due to collagen and arachidonic acid); cyclo-oxygenase inhibitor; PDE isozymes selective inhibitor (PDE subtypes 1, 5, 2, 4 from guinea pig lungs and PDE subtype 3 from guinea pig hearts, PDE Subtype 5, IC₅₀ = 86.9 μ mol/L; PDE Subtype 1, IC₅₀ = 31.9 μ mol/L; PDE Subtype 4, IC₅₀ = 28.5 μ mol/L; PDE Subtype 2, IC₅₀ = 18.6 μ mol/L; PDE Subtype 3, IC₅₀ = 1.6 μ mol/L; may has a potential in the treatment of asthma)^[5383]; TNF- α production inhibitor (murine macrophages, LPS-stimulated)^[4416]; total cAMP- and cGMP-phosphodiesterase (PDE) inhibitor (guinea pig trachea, at low concentrations)^[4085]; PDE3 more selective inhibitor (than PDE4)^[4085]; suppressive effects on ovalbumin (OVA)-induced airway hyperresponsiveness (*in vivo* and *in vitro*): (1)3-MQ (3~30 μ mol/kg, ip) significantly suppressed the enhanced pause (Penh) value induced by aerosolized methacholine (50mg/mL) in sensitized mouse after secondary allergen challenge; (2)3-MQ (3~30 μ mol/kg, ip) significantly suppressed total inflammatory cells, macrophages, neutrophils, and eosinophils, but not lymphocytes; (3)3-MQ (3 μ mol/kg, ip) significantly decreased the secretion of TNF- α , and at the highest dose (30 μ mol/kg, ip) even decreased the secretions of IL-4, IL-5, and TNF- α ; (4)3-MQ (1~10 μ mol/L) as well as Ro20-1724 (3~30 μ mol/L), a selective PDE4 inhibitor, significantly attenuated OVA (100 μ g/mL)-induced contractions; (5)3-MQ (30 μ mol/L) as well as milrinone (1~10 μ mol/L), a selective PDE3 inhibitor, significantly enhanced baseline contractions in isolated guinea pig left and right atria; (6)neither 3-MQ nor milrinone significantly affected baseline beating rate in the right atria; (7)3-MQ (3~30 μ mol/kg, ip) did not significantly affect systolic pressure in conscious mouse; (8)In conclusion, 3-MQ has both anti-inflammatory and bronchodilating effects, and has the potential for use in the treatment of asthma at a dose without affecting blood pressure)^[4085]; DPPH scavenger (SC₅₀ = 6.0 μ mol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazane formation activity = 11 μ mol/L)^[4247]. Source: E BU SHI CAO *Centipeda minima*, HUANG HUA HAO *Artemisia annua*, JI YING SU *Argemone mexicana*, TAI ZHONG SHU LI *Rhamnus nakaharai*, TAI ZHONG SHU LI *Rhamnus nakaharai*, XIAN REN ZHANG *Opuntia dillenii*. Ref: 2, 6, 658, 660, 900, 1320, 4085, 4247, 4416, 5383.

**18377 Quercetin-7-methyl ether-3,3'-disulfate**

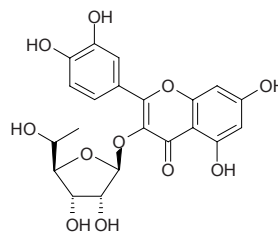
$C_{16}H_{10}O_{13}S_2$ (474.38). Source: RUAN YIN BEI TENG *Argyrea mollis*. Ref: 1891.

**18378 Quercetin-3-O-neohesperidoside**

Quercetin-3-O-(2''-O- α -rhamnopyranosyl)- β -glucopyranoside [32453-36-4] $C_{27}H_{30}O_{16}$ (610.53). Yellow crystals, mp 187~189°C. Pharm: Antithrombotic (promotes endothelial cells to produce protein, increases activity of TPA, against fibrin to damage endothelial cells); antioxidant (DPPH scavenger, SC₅₀ = 3.6 μ mol/L, positive control Vitamin E, SC₅₀ = 5.2 μ mol/L)^[4464]; aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC₅₀ = 18 μ mol/L; control Epalrestat, IC₅₀ = 0.072 μ mol/L)^[4641]. Source: BAI MEI HUA *Prunus mume* (flower: yield = 0.0023%fw)^[4641], FAN SHI LIU YE *Psidium guajava*, HOU PI SHU *Lannea grandis* [Syn. *Lannea coromandelica*], JIN ZHAN JU *Calendula officinalis*, JIN ZHAN JU *Calendula officinalis* (flower), LAO YA SHI *Diospyros rhombifolia* (leaf), PU HUANG *Typha angustata*, XIA YE XIANG PU *Typha angustifolia*. Ref: 2, 55, 3551, 4003, 4004, 4005, 4464, 4641.

**18379 Quercetin-3- α -L-rhamnofuranoside**

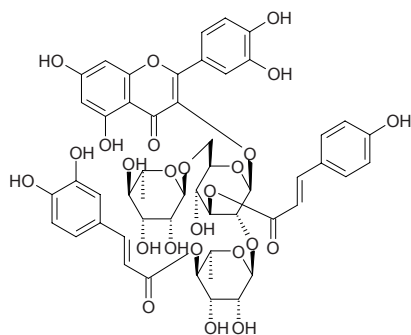
$C_{21}H_{20}O_{11}$ (448.39). Source: GUI JIAN JIN JI ER *Caragana jubata*. Ref: 6.



18380 Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)-[(4-*O*-*trans*-caffeoyl)- α -L-rhamnopyranosyl(1 \rightarrow 2)]-(3-*O*-*trans*-*p*-coumaroyl)- β -D-galactopyranoside

C₅₁H₅₂O₂₅ (1064.97). Yellow powder, $[\alpha]_D^{28} = -117^\circ$ ($c = 0.5$, MeOH).

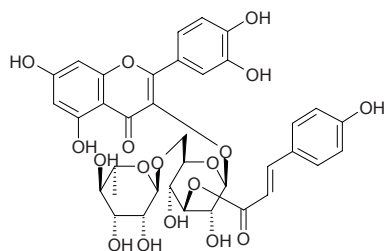
Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig; yield = 0.0028%dw). Ref: 3014.



18381 Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)-(3-*O*-*trans*-*p*-coumaroyl)- β -D-galactopyranoside

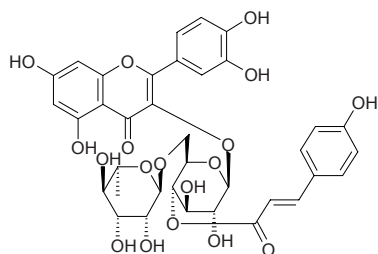
C₃₆H₃₆O₁₈ (756.68). Yellow powder, $[\alpha]_D^{22} = -86^\circ$ ($c = 0.6$, MeOH). Source:

JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig; yield = 0.00059%dw). Ref: 3014.



18382 Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)-(4-*O*-*trans*-*p*-coumaroyl)- β -D-galactopyranoside

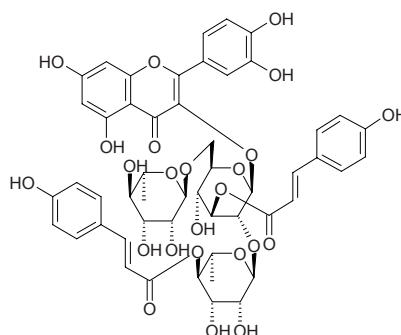
C₃₆H₃₆O₁₈ (756.68). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig; yield = 0.014%dw). Ref: 3014.



18383 Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)-[(4-*O*-*trans*-*p*-coumaroyl)- α -L-rhamnopyranosyl(1 \rightarrow 2)]-(3-*O*-*trans*-*p*-coumaroyl)- β -D-galactopyranoside

C₅₁H₅₂O₂₄ (1048.97). Yellow powder, $[\alpha]_D^{29} = -114^\circ$ ($c = 1.0$, MeOH).

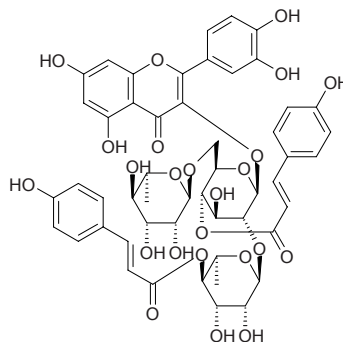
Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig; yield = 0.0016%dw). Ref: 3014.



18384 Quercetin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 6)-[(4-*O*-*trans*-*p*-coumaroyl)- α -L-rhamnopyranosyl(1 \rightarrow 2)]-(4-*O*-*trans*-*p*-coumaroyl)- β -D-galactopyranoside

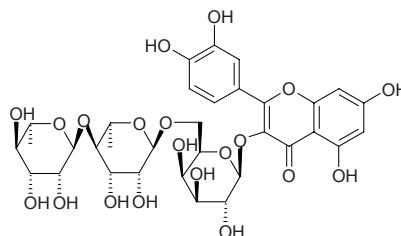
C₅₁H₅₂O₂₄ (1048.97). Yellow powder, $[\alpha]_D^{25} = -300^\circ$ ($c = 0.5$, MeOH).

Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig; yield = 0.0077%dw). Ref: 3014.



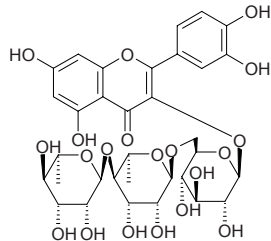
18385 Quercetin-3-*O*-[α -rhamnopyranosyl(1 \rightarrow 4)]-rhamnopyranosyl-(1 \rightarrow 6)]- β -galactopyranoside

C₃₃H₄₀O₂₀ (756.67). Source: MI HOU LI GEN *Actinidia arguta*, MU TIAN LIAO *Actinidia polygama*. Ref: 4040.



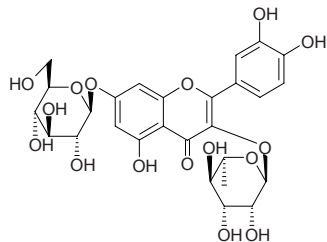
18386 Quercetin-3-*O*-[α -rhamnopyranosyl-(1 \rightarrow 4)- α -rhamnopyranosyl-(1 \rightarrow 6)- β -glucopyranoside]

$C_{33}H_{40}O_{20}$ (756.67). Source: HUA LING CAO *Eschscholzia californica*. Ref: 1898.



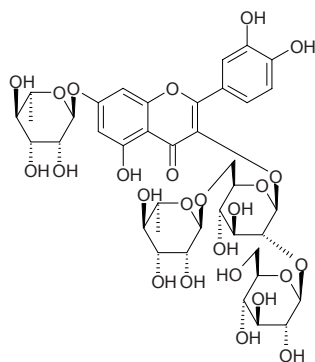
18387 Quercetin-3-rhamnoside-7-glucoside

$C_{27}H_{30}O_{16}$ (610.53). Source: MIAN TENG *Celastrus hypoleucus*. Ref: 6.



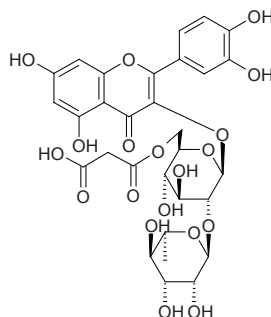
18388 Quercetin-3-*O*-[α -rhamnosyl (1 \rightarrow 6)] [β -glucosyl (1 \rightarrow 2)]- β -glucoside-7-*O*- α -rhamnoside

$C_{39}H_{50}O_{25}$ (918.82). Yellow powder. Source: *Warburgia ugandensis* (leaf). Ref: 3470.



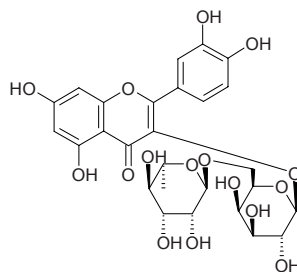
18389 Quercetin-3-*O*-[2''-*O*- α -rhamnosyl-6''-*O*-malonyl]- β -glucoside

$C_{30}H_{32}O_{19}$ (696.58). Dark~yellow amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea*. Ref: 2064.



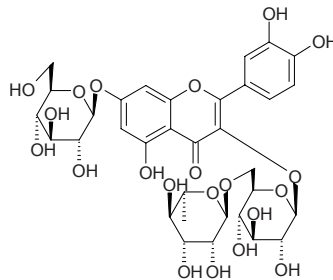
18390 Quercetin-3-robinobioside

Quercetin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-galactopyranoside $C_{27}H_{30}O_{16}$ (610.53). Source: DENG LONG CAO *Physalis peruviana*, HUANG SHU KUI HUA *Abelmoschus manihot*, BAI MEI HUA *Prunus mume* (flower: yield = 0.0016%fw)^[4641], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0062%dw)^[3014]. Ref: 3014, 4012, 4013, 4641.



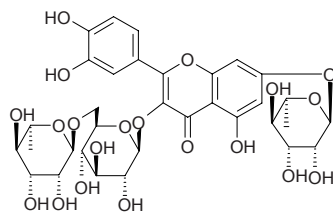
18391 Quercetin-3-rutinoside-7-glucoside

Quercetin-3-*O*-[6''-*O*- α -*L*-rhamnopyranosyl]- β -*D*-glucopyranoside-7-*O*- β -*D*-glucopyranoside $C_{33}H_{40}O_{21}$ (772.67). Source: CAO WEN JING *Equisetum pratense*, DENG LONG CAO *Physalis peruviana*, GU JIE CAO *Equisetum palustre*, LV DOU *Onobrychis viciifolia* (leaf). Ref: 4042, 4043, 5084.



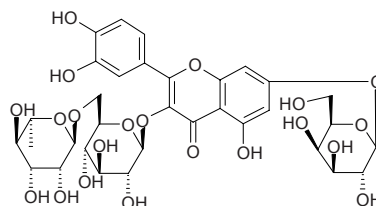
18392 Quercetin-3-rutinoside-7-rhamnoside

$C_{33}H_{40}O_{20}$ (756.67). Source: LIN WEN JING *Equisetum sylvaticum*. Ref: 4042.



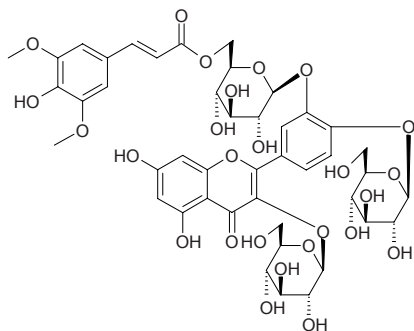
18393 Quercetin-3-rutinosyl-7-galactoside

$C_{33}H_{40}O_{21}$ (772.67). Source: HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*]. Ref: 2.



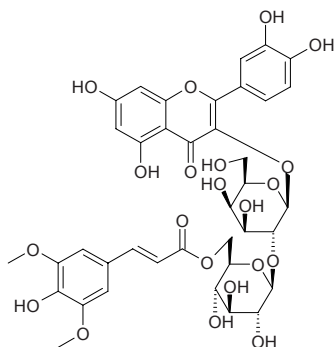
18394 Quercetin-3'-(6-sinapoyl-O-β-D-glucopyranosyl)-3,4'-di-O-β-D-glucopyranoside

C₄₄H₅₀O₂₆ (994.87). Source: ZHI MA CAI *Eruca sativa* (leaf). Ref: 5149.



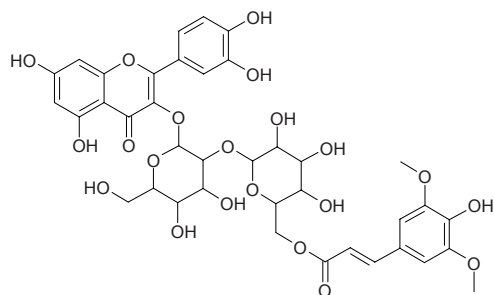
18395 Quercetin-3-O-[(6-O-sinapoyl)-β-D-glucopyranosyl-(1→2)-β-D-galactopyranoside]

C₃₈H₄₀O₂₁ (832.73). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ = 33 μmol/L, positive control Adriamycin, IC₅₀ = 27 μmol/L; DDDP inhibitor, IC₅₀ = 69 μmol/L, positive control Adriamycin, IC₅₀ = 6 μmol/L; HIV-1 IN inhibitor, IC₅₀ = 7 μmol/L, positive control Suramin, IC₅₀ = 2.4 μmol/L). Source: HUANG HUA JIA ZHU TAO *Thevetia neriiifolia* [Syn. *Thevetia peruviana*] (leaf). Ref: 4187.



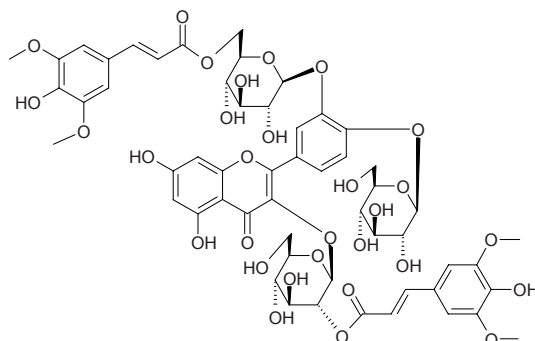
18396 Quercetin-3-O-[2-O-(6-O-E-sinapoyl)-β-D-glucopyranosyl]-β-D-glucopyranoside

C₃₈H₄₀O₂₁ (832.73). Yellowish powder, mp 208–210°C. Source: BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*]. Ref: 4882.



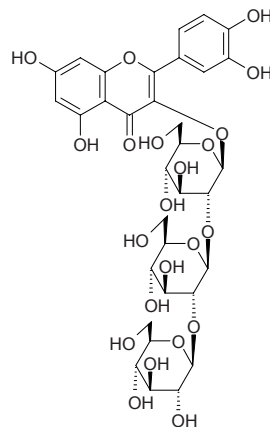
18397 Quercetin-3-(2-sinapoyl-O-β-D-glucopyranosyl)-3'-(6-sinapoyl-O-β-D-glucopyranosyl)-4'-O-β-D-glucopyranoside

C₅₅H₆₀O₃₀ (1201.07). Source: ZHI MA CAI *Eruca sativa* (leaf). Ref: 5149.



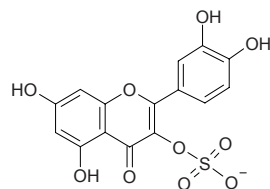
18398 Quercetin-3-sophorotrioside

C₃₃H₄₀O₂₂ (788.67). Pharm: Hepatoprotective (*in vitro*, mus primary cultured hepatocytes, inhibits liver cytotoxicity induced by GaIN, 100 μmol/L, InRt = (14.5±4.2)%, *p* < 0.01); hepatoprotective (mus, *in vivo*, inhibits liver damage induced by GaIN, LPS or CCl₄). Source: WAN DOU *Pisum sativum* (young seedpot). Ref: 4110.



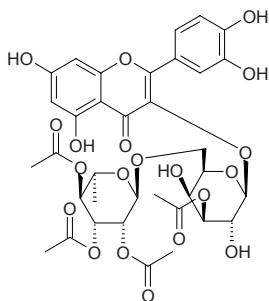
18399 Quercetin-3-sulphate

C₁₅H₉O₁₀S (381.30). Source: DA HUA XUAN FU HUA CAO *Inula britannica*, SHUI LIAO *Polygonum hydropiper*. Ref: 1388, 4027.



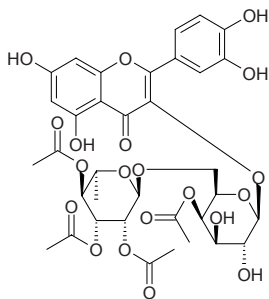
18400 Quercetin-3-O-[(2,3,4-triacetyl- α -rhamnopyranosyl)-(1 \rightarrow 6)]-3-acetyl- β -galactopyranoside

$C_{35}H_{38}O_{20}$ (778.68). **Pharm:** Anticomplement activity (classical pathway, IC_{50} = (36.4 \pm 1.8) μ mol/L, control Dextrane sulphate, IC_{50} = (0.00019 \pm 0.00005) μ mol/L); antioxidant (DPPH scavenger, IC_{50} = (17.8 \pm 0.1) μ mol/L, control Quercetin, IC_{50} = (9.7 \pm 0.8) μ mol/L). **Source:** SUI ZHUANG BAI JIN HUA *Centaurium spicatum*. **Ref:** 5493.



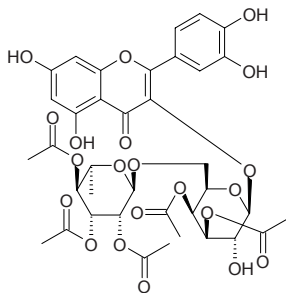
18401 Quercetin-3-O-[(2,3,4-triacetyl- α -rhamnopyranosyl)-(1 \rightarrow 6)]-4-acetyl- β -galactopyranoside

$C_{35}H_{38}O_{20}$ (778.68). **Pharm:** Anticomplement activity (classical pathway, IC_{50} = (22.8 \pm 4.9) μ mol/L, control Dextrane sulphate, IC_{50} = (0.00019 \pm 0.00005) μ mol/L); antioxidant (DPPH scavenger, IC_{50} = (14.3 \pm 0.4) μ mol/L, control Quercetin, IC_{50} = (9.7 \pm 0.8) μ mol/L). **Source:** SUI ZHUANG BAI JIN HUA *Centaurium spicatum*. **Ref:** 5493.



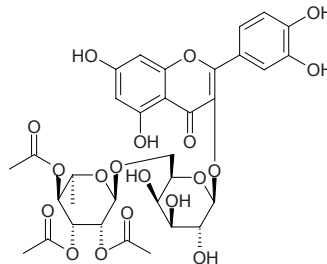
18402 Quercetin-3-O-[(2,3,4-triacetyl- α -rhamnopyranosyl)-(1 \rightarrow 6)]-3,4-diacetyl- β -galactopyranoside

$C_{37}H_{40}O_{21}$ (820.72). **Pharm:** Anticomplement activity (classical pathway, IC_{50} = 59.3 μ mol/L, control Dextrane sulphate, IC_{50} = (0.00019 \pm 0.00005) μ mol/L); antioxidant (DPPH scavenger, IC_{50} = (25.8 \pm 0.2) μ mol/L, control Quercetin, IC_{50} = (9.7 \pm 0.8) μ mol/L). **Source:** SUI ZHUANG BAI JIN HUA *Centaurium spicatum*. **Ref:** 5493.



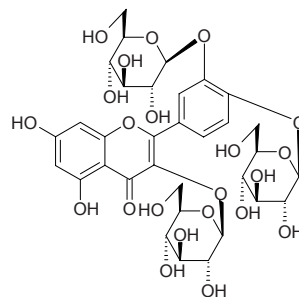
18403 Quercetin-3-O-[(2,3,4-triacetyl- α -rhamnopyranosyl)-(1 \rightarrow 6)]- β -galactopyranoside

$C_{33}H_{36}O_{19}$ (736.64). **Pharm:** Anticomplement activity (classical pathway, IC_{50} = (10.0 \pm 0.9) μ mol/L, control Dextrane sulphate, IC_{50} = (0.00019 \pm 0.00005) μ mol/L); antioxidant (DPPH scavenger, IC_{50} = (13.9 \pm 0.3) μ mol/L, control Quercetin, IC_{50} = (9.7 \pm 0.8) μ mol/L). **Source:** SUI ZHUANG BAI JIN HUA *Centaurium spicatum*. **Ref:** 5493.



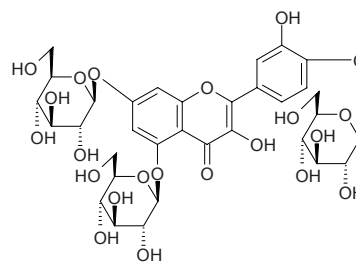
18404 Quercetin-3,3',4'-tri- O - β -D-glucopyranoside

$C_{33}H_{40}O_{22}$ (788.67). **Source:** ZHI MA CAI *Erica sativa* (leaf). **Ref:** 5149.



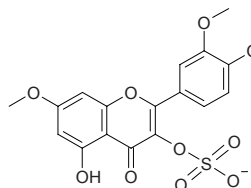
18405 Quercetin-5,7,4'-tri- O - β -D-glucopyranoside

$C_{33}H_{40}O_{22}$ (788.67). **Source:** CAN JIAN *Bombyx mori*. **Ref:** 1983.



18406 Quercetin-3',4',7-trimethyl ether-3-sulfate

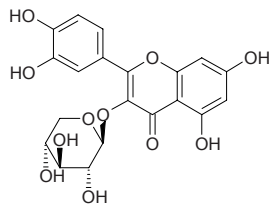
$C_{18}H_{15}O_{10}S$ (423.38). **Source:** RUI SHI QIAN NIU *Ipomoea regnellii*. **Ref:** 1891.



18407 Quercetin-3- β -D-xylopyranoside

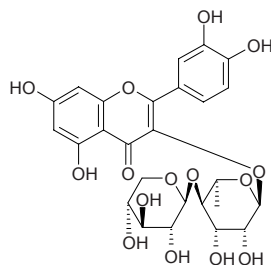
Reynoutrin [P00565in] C₂₀H₁₈O₁₁ (434.36). mp 210~211°C, 203~204°C.

Source: GUI JIAN JIN JI ER *Caragana jubata*, HU ZHANG *Polygonum cuspidatum*, ZHEN ZHU MEI *Sorbaria sorbifolia*, GAO CONG ZHEN ZHU MEI *Sorbaria arborea*, BA JIAO HUI XIANG *Illicium verum*, BI MA YE *Ricinus communis*, JIN JI LE *Cinchona ledgeriana*, KUO JIA HE HUAN *Albizia lebbbeck*. **Ref:** 6, 660, 1521.

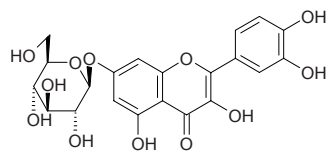
**18408 Quercetin-3-O- β -D-xylose-(1 \rightarrow 4)- α -L-rhamnoside**

[196310-24-4] C₂₆H₂₈O₁₅ (589.50). Yellow needles. **Pharm:**

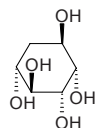
Anti-inflammatory (mus, 40mg/kg sc, edema InRt = 33%, with high therapy index). **Source:** LUO DI SHENG GEN *Bryophyllum pinnatum*. **Ref:** 4026.

**18409 Quercimeritrin**

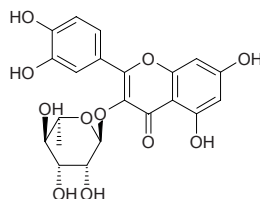
C₂₁H₂₀O₁₂ (464.39). **Pharm:** Anti-inflammatory (IL-5 inhibitor, concentration-dependent manner, mean IC₅₀ = 27.3 μ mol/L)^[4416]. **Source:** LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], JI YAN CAO *Kummerowia striata*. **Ref:** 658, 4416.

**18410 D-Quercitol**

C₆H₁₂O₅ (164.16). mp 235~237°C. **Source:** HU CONG *Allium ascalonicum*, RU LAN *Stephania hernandifolia*, TIE ZI *Myrsine africana*, XI SHENG TENG *Cissampelos pareira*, OU ZHOU BAI LI *Quercus robur*, YANG YE AN *Eucalyptus populnea*. **Ref:** 6, 658.

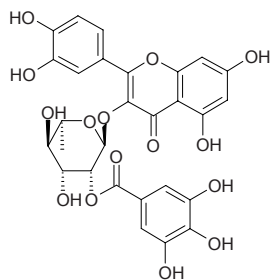
**18411 Quercitrin**

Quercetin-3-O- α -L-rhamnopyranoside C₂₁H₂₀O₁₁ (448.39). Yellow crystals, mp 166~168°C, mp 182~185°C, mp 178~182 °C. **Pharm:** Antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*); antineoplastic; antihepatotoxin; anti-inflammatory; antimutagenic; antiviral (murine tissue and chicken embryo, vesicular stomatitis virus, influenza virus A); diuretic; hemostatic; aldose reductase inhibitor (eye lens, strong); antioxidant (3.125 μ g/mL, superoxide radical scavenging activity = 15.6%, control Urcumin 16.1%; 6.25 μ g/mL, DPPH radical scavenging activity = 11.6%, control Urcumin 50.0%)^[4535]; inhibits cancer cell invasion inactive (MM1 cells, *in vitro*, 10 μ g/mL)^[4329]; insect antifeedant (*Bombyx mor*); insect phagostimulant (*Gastrophysa atricycaea*); hepatoprotective (primary cultures of rat hepatocytes, H₂O₂-induced toxicity, 50 μ mol/L, relative protection = 57.3% (H₂O₂-treated, relative protection = 0.0%, control, relative protection = 100%), positive control Silibinin, Relative protection = 74.9%)^[4996]; ACE inhibitor (IC₅₀ = 250 μ mol/L, control Lisinopril, IC₅₀ = 1 nmol/L); NEP inhibitor (IC₅₀ > 500 μ mol/L, control Phosphoramidon, IC₅₀ = 9 nmol/L); APN inhibitor inactive; inhibitory activity against NFAT transcription (IC₅₀ > 100 μ mol/L, positive control Cyclosporin A, IC₅₀ = (0.29 \pm 0.01) μ mol/L)^[2536]. **Source:** BAI GUO YE *Ginkgo biloba*, BIAN XU *Polygonum aviculare*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], CHI YANG *Alnus japonica* (leaf), DUO SUI LIAO *Polygonum polystachyum*, GUAN YE LIAN QIAO *Hypericum perforatum*, HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, HONG KUI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], HU ZHANG *Polygonum cuspidatum*, HU ZHANG YE *Polygonum cuspidatum*, LING NAN DU JUAN *Rhododendron mariae* (branchlet-leaf or flower: content = 0.76%)^[5508], LONG YAN YE *Euphorbia longan* [Syn. *Dimocarpus longan*], MAN SHAN HONG *Rhododendron dauricum* (branchlet-leaf or flower: content = 0.42%)^[5508], MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MAO YAN CAO *Euphorbia lunulata*, OU ZHOU QI YE SHU *Aesculus hippocastanum*, OU ZHOU YOU CAI *Brassica napus*, BI BEN GUI DENG QING *Rodgersia podophylla* (aerial parts), SAN BAI CAO *Saururus chinensis*, SANG JI SHENG *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], SHAN YING TAO *Prunus tomentosa*, SHUI LIAO *Polygonum hydropiper*, SHUI MA TIAO *Polygonum thunbergii*, TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0028%), YI ZHI HUANG HUA *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], YOU GAN YE *Phyllanthus emblica* (leaf and branch), YU XING CAO *Houttuynia cordata* (dried aerial parts: content = 0.026%)^[5508], ZHAI YE BAN FENG HE *Pterispermum lanceaefolium*, ZHUO SE LI *Quercus tinctoria*, ZI JIN NIU *Ardisia japonica*, occurs in many plants. **Ref:** 2, 6, 433, 658, 660, 2536, 4163, 4205, 4329, 4535, 4996, 5034, 5508.

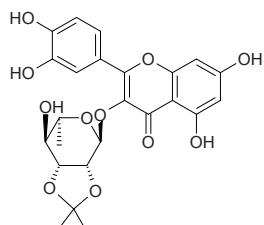


18412 Quercitrin-2''-gallate

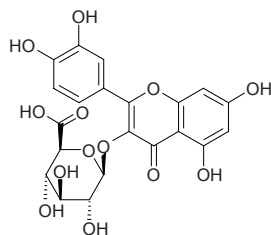
$C_{28}H_{24}O_{15}$ (600.49). Yellowish solid. Source: LUAN SHU *Koelerutera paniculata*. Ref: 677.

**18413 Quercitrin derivative CPB-50-208-18**

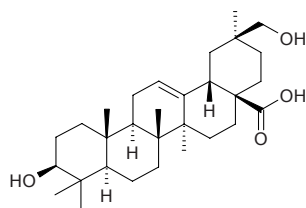
$C_{24}H_{24}O_{11}$ (488.45). Pharm: Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 μ mol/L, InRt = (39.8 \pm 1.4)%), control Curcumin, 100 μ mol/L, InRt = (62.6 \pm 1.0)%, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase). Source: YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0059%). Ref: 4163.

**18414 Querciturone**

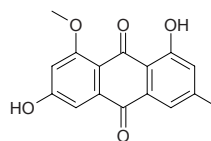
Quercetin-3-*O*- β -glucuronopyranoside [22688-79-5] $C_{21}H_{18}O_{13}$ (478.37). mp 190°C. Pharm: Antioxidant (DPPH scavenger, SC_{50} = 1.5 μ mol/L, positive control Vitamin E, SC_{50} = 5.2mmol/L)^[4464]. Source: LAO YA SHI *Diospyros rhombifolia* (leaf), ZHU ZONG CAO *Adiantum capillus-veneris*. Ref: 6, 4464.

**18415 Queretaroic acid**

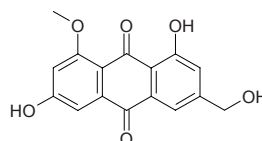
[511-82-0] $C_{30}H_{48}O_4$ (472.71). mp 318~323°C. Source: SAN TAI HONG HUA *Clerodendron serratum*. Ref: 6.

**18416 Questin**

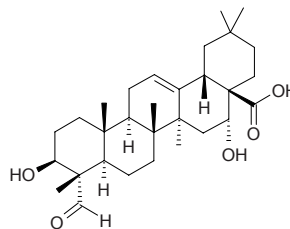
Emodin-1-monomethyl ether [3774-64-9] $C_{16}H_{12}O_5$ (284.27). mp 301~303°C. Source: HE SHOU WU *Polygonum multiflorum*, HU ZHANG *Polygonum cuspidatum*, NIU XI XI *Rumex patientia*, YE JIAO TENG *Polygonum multiflorum*. Ref: 2, 6, 660.

**18417 Questinol**

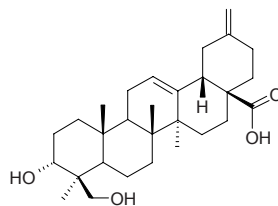
[35688-09-6] $C_{16}H_{12}O_6$ (300.27). Source: HU ZHANG *Polygonum cuspidatum*. Ref: 2.

**18418 Quillaic acid**

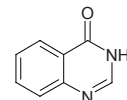
3,16-Dihydroxy-23-oxo-12-oleanen-28-oic acid [631-01-6] $C_{30}H_{46}O_5$ (486.70). Crystals (EtOH), mp 294°C, $[\alpha]_D^{20}$ = +56.1° (pyridine). Source: HAN MAI PING CAO *Silene jensisensis*, JIN TIE SUO *Psammosilene tunicoides*, ZAO PI SHU *Quillaja saponaria*. Ref: 658, 1521, 4037.

**18419 Quinatic acid**

3,24-Dihydroxy-30-nor-12,20(29)-oleanadien-28-oic acid [119863-89-7] $C_{29}H_{44}O_4$ (456.67). White powder; needles, mp 269~272°C, $[\alpha]_D^{18}$ = +66.6° (c = 0.375, pyridine). Source: E ZHANG TENG *Schefflera arboricola* (stem of branch), MU TONG *Akebia quinata*, SAN YE MU TONG *Akebia trifoliata* (stem), NA TENG *Stauntonia hexaphylla*. Ref: 1274, 1521, 4035, 4545, 4899.

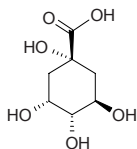
**18420 4-Quinazolone**

[491-36-1] $C_8H_6N_2O$ (146.15). mp 211~212°C. Pharm: Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. Source: CHANG SHAN *Dichroa febrifuga*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069]. Ref: 6, 3069.

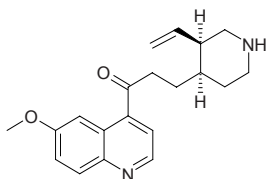


18421 Quinic acid

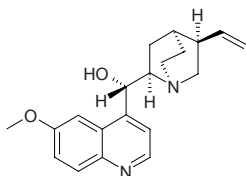
(1 α ,3 α ,4 α ,5 β)-1,3,4,5-Tetrahydroxy-cyclohexanecarboxylic acid [77-95-2] C₇H₁₂O₆ (192.17). mp (–) 172°C. **Pharm:** Acidic component of common plants. **Source:** BAI GUO *Ginkgo biloba*, HE ZI *Terminalia chebula*, HE ZI YE *Terminalia chebula*, HUI XIANG JING YE *Foeniculum vulgare*, JIN JI LE *Cinchona ledgeriana*, MEI GUI HUA *Rosa rugosa*, NING MENG *Citrus limon*, NING MENG AN YE *Eucalyptus citriodora*, PU TAO TENG YE *Vitis vinifera*, TAO YE *Prunus persica*, WU HUA GUO *Ficus carica*, XIANG RI KUI ZI *Helianthus annuus*, YI ZHU QIAN MA *Urtica dioica*. **Ref:** 2, 6, 658, 660.

**18422 Quinicine**

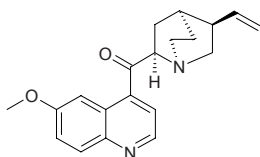
[845-5-9] C₂₀H₂₄N₂O₂ (324.43). mp (+) 60°C. **Source:** JIN JI LE *Cinchona ledgeriana*. **Ref:** 6.

**18423 Quinidine**

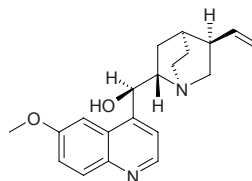
β -Quinine [56-54-2] C₂₀H₂₄N₂O₂ (324.43). mp (+) 174~175°C (anhydrate). **Pharm:** CYP2D6 inhibitor (IC₅₀ = 0.068 μ mol/L)^[4449], CYP2D6 inhibitor (*in vitro*, IC₅₀ = 0.082 μ mol/L)^[4797]. **Source:** JIN JI LE *Cinchona ledgeriana*. **Ref:** 4, 4449, 4797.

**18424 Quinidinone**

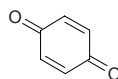
(8 α)-6'-Methoxycinchonan-9-one [84-31-1] C₂₀H₂₂N₂O₂ (322.41). mp 108°C. **Source:** JIN JI LE *Cinchona ledgeriana*. **Ref:** 6.

**18425 Quinine**

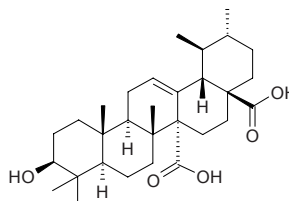
6-Methoxycinchonan-9-ol [130-95-0] C₂₀H₂₄N₂O₂ (324.43). [α]_D¹⁵ = –169° (ethanol), insoluble in water, soluble in benzene, ether, easily soluble in ethanol, chloroform.^[5507] **Pharm:** Antimalarial (formerly used to treat malaria, now largely replaced by more effective, less toxic drugs); antimalarial (*Plasmodium falciparum* D6, LC₅₀ = 9.2ng/mL, SI > 2174; *Plasmodium falciparum* W2, LC₅₀ = 59.8ng/mL, SI > 334)^[3976]; cytotoxic (KB, LC₅₀ > 20000ng/mL)^[3976]; bitter principle (one of the bitterest substances, in 10 μ mol/L being extremely bitter); stimulates horses (used in horse racing). **Source:** HONG SE JIN JI NA SHU *Cinchona succirubra*, JIN JI LE *Cinchona ledgeriana*. **Ref:** 4, 658, 3976, 5507.

**18426 Quinone**

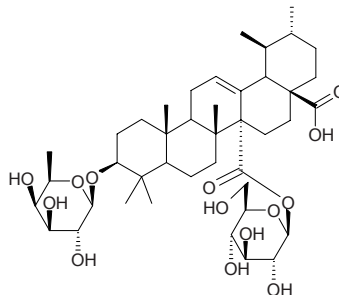
1,4-Benzoquinone [106-51-4] C₆H₄O₂ (108.10). Yellow crystals (pet. ether or H₂O), mp 117°C, soluble in EtOH, Et₂O. **Pharm:** Irritant (causes dermatitis and conjunctivitis); toxic (highly). **Source:** HUANG CHONG *Romalea microptera*, *Streptothris chromogena*. **Ref:** 1521.

**18427 Quinovic acid**

3-Hydroxy-12-ursene-27,28-dioic acid [465-74-7] C₃₀H₄₆O₅ (486.70). mp 298°C. **Source:** SHUI TUAN HUA *Adina pilulifera* [Syn. *Cephalanthus pilulifera*]. **Ref:** 6.

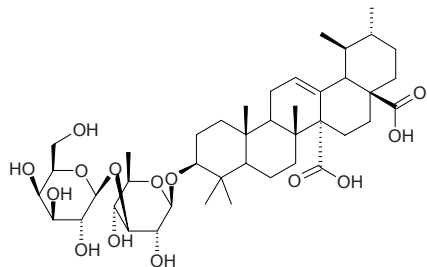
**18428 Quinovic acid 3 β -O- β -D-fucopyranosyl-(27-1)- β -D-glucopyranosyl ester**

C₄₂H₆₆O₁₄ (794.99). **Source:** BI LU GOU TENG *Uncaria tomentosa*, GUI YA NA GOU TENG *Uncaria guianensis*. **Ref:** 5341.



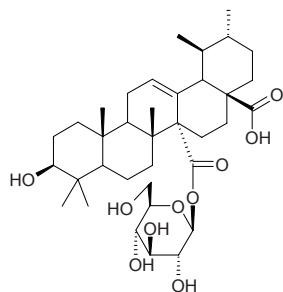
18429 Quinovic acid 3-*O*- β -D-galactopyranosyl-(1 \rightarrow 3)- β -D-quinovopyranoside

C₄₂H₆₆O₁₄ (794.99). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



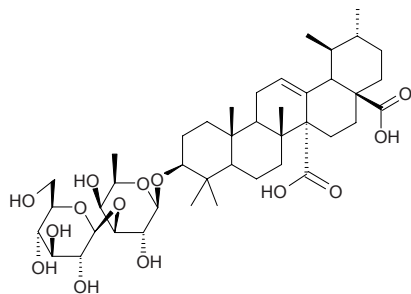
18430 Quinovic acid 27-*O*- β -D-glucopyranosyl ester

C₃₆H₅₆O₁₀ (648.84). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



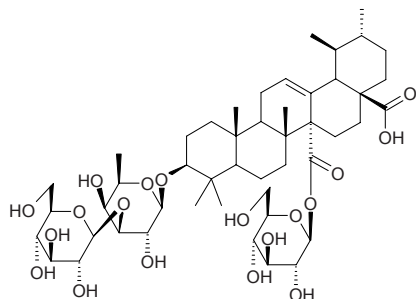
18431 Quinovic acid 3 β -*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranoside

C₄₂H₆₆O₁₄ (794.99). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



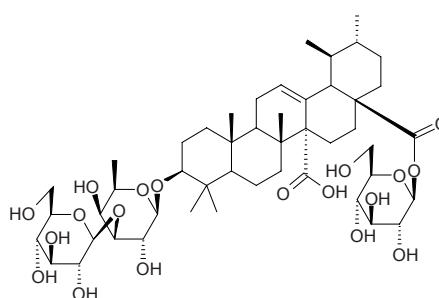
18432 Quinovic acid 3 β -*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-(27-1)- β -D-glucopyranosyl ester

C₄₈H₇₆O₁₉ (957.13). Source: BI LU GOU TENG *Uncaria tomentosa*, GUI YA NA GOU TENG *Uncaria guianensis*. Ref: 5341.



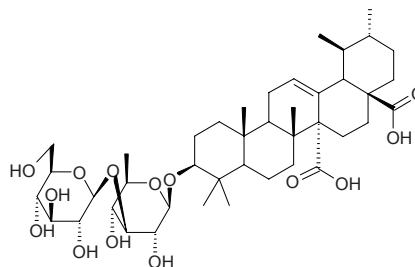
18433 Quinovic acid 3 β -*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-(28-1)- β -D-glucopyranosyl ester

C₄₈H₇₆O₁₉ (957.13). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



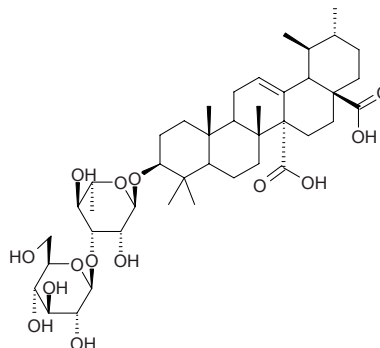
18434 Quinovic acid 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-quinovopyranoside

C₄₂H₆₆O₁₄ (794.99). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



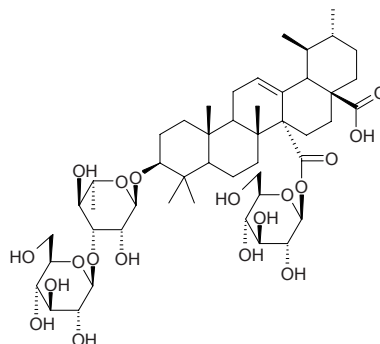
18435 Quinovic acid 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside

C₄₂H₆₆O₁₄ (794.99). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.



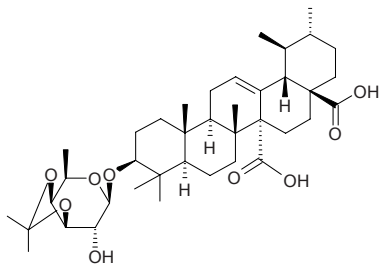
18436 Quinovic acid 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside 27-*O*- β -D-glucopyranosyl ester

C₄₈H₇₆O₁₉ (957.13). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.

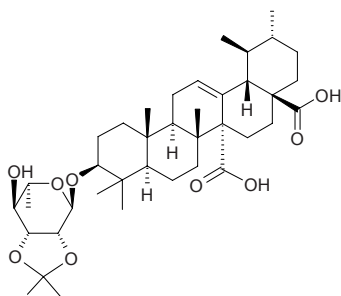


18437 Quinovic acid-3 β -O-(3',4'-O-isopropylidene)- β -D-fucopyranoside

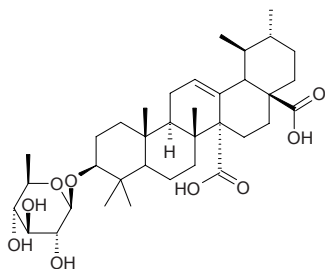
C₃₉H₆₀O₉ (672.91). White powder, mp 220°C (dec), [α]_D³⁰ = +48.77° (c = 0.611, MeOH). Source: XI YE SHUI TUAN HUA *Adina rubella*. Ref: 651.

**18438 Quinovic****acid-3 β -(2',3'-O-isopropylidene)- α -L-rhamnopyranoside**

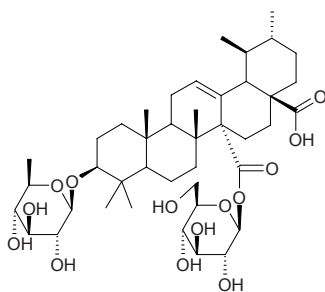
C₃₉H₆₀O₉ (672.91). White powder, mp 268~272°C (dec), [α]_D²² = +47.29° (c = 0.317, MeOH). Source: XI YE SHUI TUAN HUA *Adina rubella*. Ref: 651.

**18439 Quinovic acid 3 β -O- β -D-quinovopyranoside**

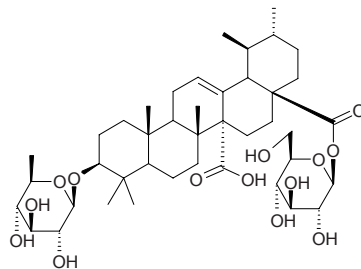
C₃₆H₅₆O₉ (632.84). Source: GUI YA NA GOU TENG *Uncaria guianensis*. Ref: 5341.

**18440 Quinovic acid 3-O- β -D-quinovopyranoside 27-O- β -D-glucopyranosyl ester**

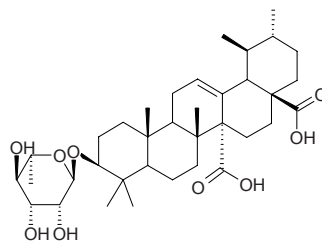
C₄₂H₆₆O₁₄ (794.99). Pharm: Anti-inflammatory (20mg/kg, InRt = 33%)^[5341]. Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.

**18441 Quinovic acid 3-O- β -D-quinovopyranoside 28-O- β -D-glucopyranosyl ester**

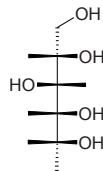
C₄₂H₆₆O₁₄ (794.99). Source: TUO YUAN GOU TENG *Uncaria elliptica*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig; yield = 0.0053%dw). Ref: 5341, 4723.

**18442 Quinovic acid 3 β -O- α -L-rhamnopyranoside**

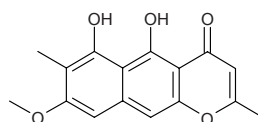
C₃₆H₅₆O₉ (632.84). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.

**18443 D-Quinovitrol**

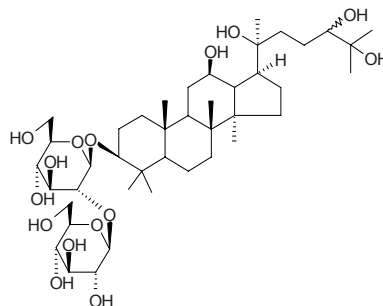
C₆H₁₄O₅ (166.18). Colorless syrup, [α]_D²⁴ = -11° (c = 0.2, MeOH). Source: SHE CHUANG ZI *Cnidium monnieri* (fruit). Ref: 5205.

**18444 Quinquangulin**

[64892-58-2] C₁₆H₁₄O₅ (286.29). Pharm: Cytotoxic (P₃₈₈). Source: WU LENG JUE MING *Cassia quinquangula*. Ref: 658.

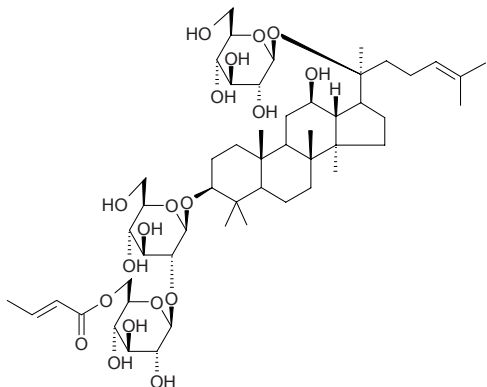
**18445 Quinquenoside F₁**

C₄₂H₇₄O₁₅ (819.05). White amorphous powder, mp 237~238°C. Source: XI YANG SHEN *Panax quinquefolium*. Ref: 789.

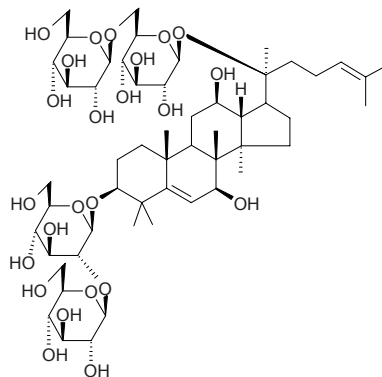


18446 Quinquenoside I

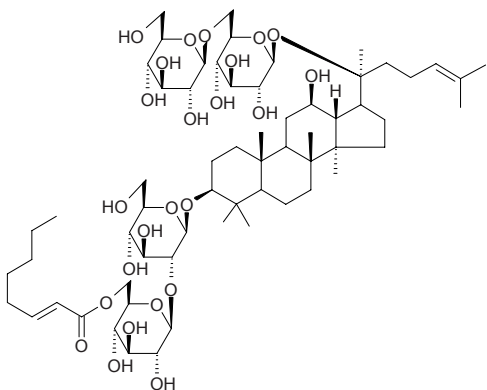
$C_{52}H_{86}O_{19}$ (1015.25). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 4139.

**18449 Quinquenoside IV**

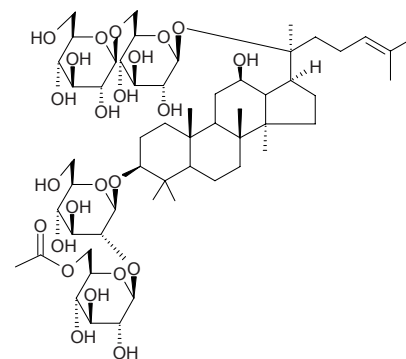
$C_{54}H_{90}O_{24}$ (1123.31). Pharm: Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 4139.

**18447 Quinquenoside II**

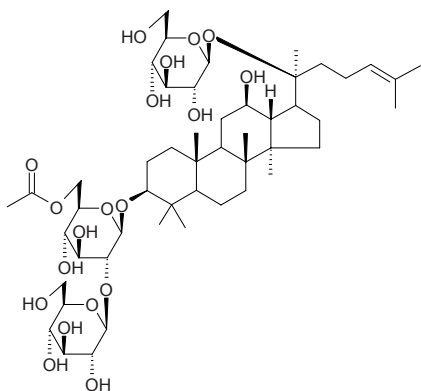
$C_{62}H_{104}O_{24}$ (1233.51). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 4139.

**18450 Quinquenoside R₁**

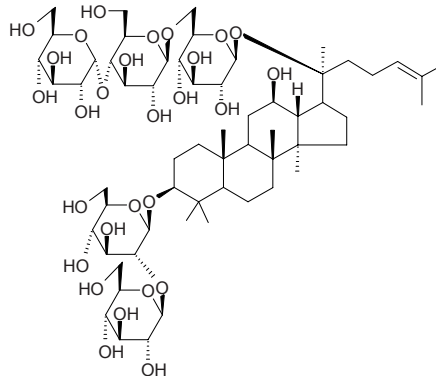
$C_{56}H_{94}O_{24}$ (1151.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XI YANG SHEN *Panax quinquefolium*. Ref: 660.

**18448 Quinquenoside III**

$C_{50}H_{84}O_{19}$ (989.22). Pharm: Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 4139.

**18451 Quinquenoside V**

$C_{60}H_{102}O_{28}$ (1271.47). Pharm: Immunological adjuvant activity (OVA-immunized mouse, ELISA assay, increases serum IgG level). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 4139.



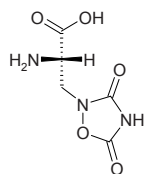
18452 Quisqualic acid

α -Amino-3,5-dioxo-1,2,4-oxadiazolidine-2-propanoic acid [52809-07-1]

C₅H₇N₃O₅ (189.13). mp 187~188 (dec). **Pharm:** Anthelmintic (roundworm).

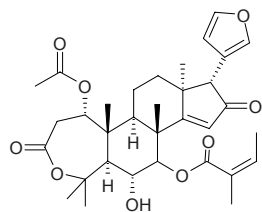
Source: SHI JUN ZI *Quisqualis indica*, MAO SHI JUN ZI *Quisqualis indica* var. *villosa* (in 1972 the compound was isolated from the plant)^[5505],

Quisqualis fructus. **Ref:** 1521, 5501, 5505.

**18453 Quivisianthone**

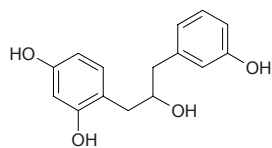
7-Deacetyl-7-angeloyl-16-ketohadalactone A C₃₃H₄₂O₉ (582.70). Pale

yellow gum, $[\alpha]_D = +0.0^\circ$. **Source:** *Quivisia papinae* (seed). **Ref:** 3759.

**18454 Quracol A**

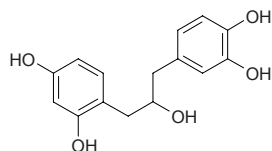
[108549-45-7] C₁₅H₁₆O₄ (260.29). mp 88~90°C, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.01$, alcohol).

Pharm: Ileal smooth muscle relaxant (gpg, *in vitro*, contraction induced by electrostimulation; 20 μ g/mL histamine antagonist). **Source:** NIU XUAN JIN HE HUAN *Acacia tortilis* ssp. *raddiana*. **Ref:** 4018.

**18455 Quracol B**

[108549-46-8] C₁₅H₁₆O₅ (276.29). mp 92~94°C, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.05$, alcohol).

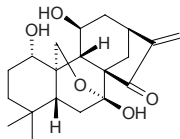
Pharm: Ileal smooth muscle relaxant (gpg, *in vitro*, contraction induced by electrostimulation; 20 μ g/mL histamine antagonist). **Source:** NIU XUAN JIN HE HUAN *Acacia tortilis* ssp. *raddiana*. **Ref:** 4018.



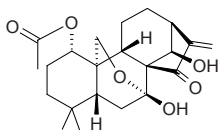
R

18456 Rabdocoetsin A

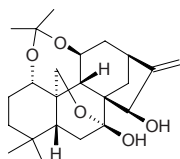
$C_{20}H_{28}O_5$ (348.44). mp 250–252°C, $[\alpha]_D = -100^\circ$ ($c = 0.40$, MeOH); $[\alpha]_D^{20} = -96.2^\circ$ ($c = 0.09$, MeOH). Source: XI ZHUI XIANG CHA CAI *Rabdosia coetsa*, ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). Ref: 4067, 5475.

**18457 Rabdocoetsin B**

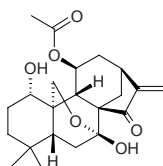
$C_{22}H_{30}O_6$ (390.48). $[\alpha]_D^{20} = -75.2^\circ$ ($c = 0.11$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, $IC_{50} = 0.13\mu\text{g/mL}$, control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[5475]. Source: XI ZHUI XIANG CHA CAI *Rabdosia coetsa*, ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). Ref: 660, 4067, 5475.

**18458 Rabdocoetsin C**

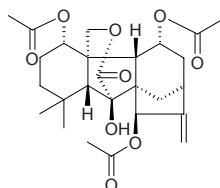
$C_{23}H_{34}O_5$ (390.52). mp 248–249°C. Source: XI ZHUI XIANG CHA CAI *Rabdosia coetsa*. Ref: 4067.

**18459 Rabdocoetsin D**

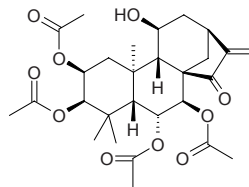
$C_{22}H_{30}O_6$ (390.48). $[\alpha]_D^{20} = -96.1^\circ$ ($c = 0.08$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, $IC_{50} = 0.87\mu\text{g/mL}$, control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$)^[5475]. Source: XI ZHUI XIANG CHA CAI *Rabdosia coetsa*, ZI MAO XIANG CHA CAI *Isodon enanderianus* (aerial parts). Ref: 660, 4067, 5475.

**18460 Rabdoepigibberellolide**

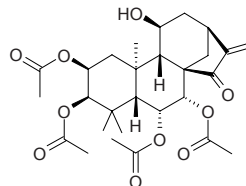
$C_{26}H_{34}O_9$ (490.56). mp 255.5–256.5°C, $[\alpha]_D = -89^\circ$ ($c = 0.28$, MeOH). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**18461 Rabdoforrestin A**

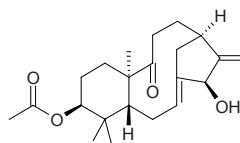
[117695-11-1] $C_{28}H_{38}O_{10}$ (534.61). Pharm: Cytotoxic (MG cells, EAC cells). Source: MAO GENG XIA YE XIANG CHA CAI *Isodon angustifolius* var. *glabrescens* (leaf: yield = 0.0093%), ZI E XIANG CHA CAI *Isodon forrestii* (leaf: yield = 0.28%). Ref: 4065, 4066.

**18462 Rabdoforrestin A'**

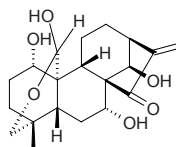
$C_{28}H_{38}O_{10}$ (534.61). mp 173–174°C, $[\alpha]_D^{22} = -38.7^\circ$ ($c = 0.58$, MeOH). Source: ZI E XIANG CHA CAI *Isodon forrestii*. Ref: 4067.

**18463 Rabdohakusin**

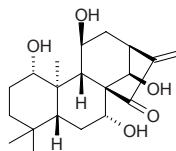
$C_{22}H_{32}O_4$ (360.50). mp 97–98°C, $[\alpha]_D = +78.7^\circ$ ($c = 0.127$, CHCl_3). Source: YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*. Ref: 4067.

**18464 Rabdoinflxin A**

$C_{20}H_{28}O_6$ (364.44). mp 214–216°C, $[\alpha]_D^{24} = -115.7^\circ$ ($c = 1.0$, MeOH). Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067.

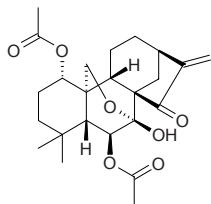
**18465 Rabdoinflxin B**

$C_{20}H_{30}O_5$ (350.46). mp 266–268°C, $[\alpha]_D^{24} = -74.9^\circ$ ($c = 0.45$, MeOH). Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]. Ref: 4067.

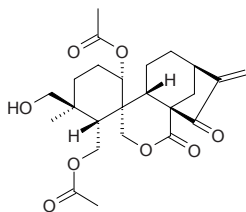


18466 Rabdokaurin A

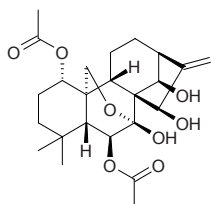
$C_{24}H_{32}O_7$ (432.52). mp 227–229°C, $[\alpha]_D^{26} = +57.0^\circ$ ($c = 0.84$, MeOH). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**18467 Rabdokaurin B**

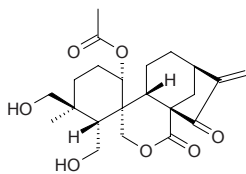
$C_{24}H_{32}O_8$ (448.52). Amorphous powder, $[\alpha]_D^{26} = -93.6^\circ$ ($c = 0.81$, MeOH). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**18468 Rabdokaurin C**

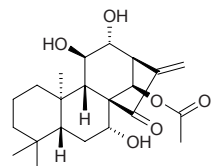
$C_{24}H_{34}O_8$ (450.53). mp 232–234°C, $[\alpha]_D^{22} = -17.5^\circ$ ($c = 1.16$, C_5H_5N). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**18469 Rabdokaurin D**

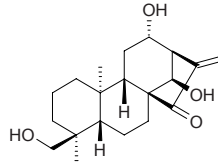
$C_{22}H_{30}O_7$ (406.48). mp 227–230°C, $[\alpha]_D^{21} = +34.1^\circ$ ($c = 0.62$, MeOH). Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 4067.

**18470 Rabdokunmin A**

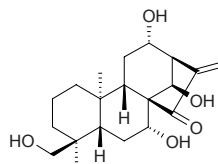
$C_{22}H_{32}O_6$ (392.50). mp 212–214°C, $[\alpha]_D^{21} = -51.0^\circ$ ($c = 0.51$, Me_2CO). Source: KUN MING XIANG CHA CAI *Isodon kunmingensis*. Ref: 4067.

**18471 Rabdokunmin B**

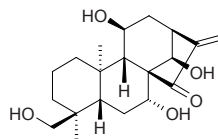
$C_{20}H_{30}O_4$ (334.46). mp 259.5–261.5°C, $[\alpha]_D^{21} = -46.2^\circ$ ($c = 0.52$, MeOH). Source: KUN MING XIANG CHA CAI *Isodon kunmingensis*. Ref: 4067.

**18472 Rabdokunmin C**

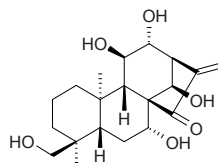
$7\alpha, 12\alpha, 14\beta, 18$ -Tetrahydroxy-*ent*-kaur-16-en-15-one $C_{20}H_{30}O_5$ (350.46). mp 145–146°C, $[\alpha]_D^{21} = -85.7^\circ$ ($c = 0.54$, MeOH). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 1.06\mu g/mL$)^[3012]. Source: KUN MING XIANG CHA CAI *Isodon kunmingensis*, WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial parts: yield = 0.0024%dw). Ref: 3012, 4067.

**18473 Rabdokunmin D**

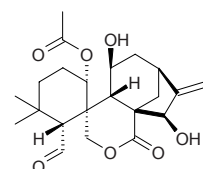
$C_{20}H_{30}O_5$ (350.46). mp 254–257°C, $[\alpha]_D^{21} = -113.3^\circ$ ($c = 0.57$, MeOH). Source: KUN MING XIANG CHA CAI *Isodon kunmingensis*. Ref: 4067.

**18474 Rabdokunmin E**

$C_{20}H_{30}O_6$ (366.46). mp 286–288°C, $[\alpha]_D^{21} = -110.5^\circ$ ($c = 0.51$, MeOH). Source: KUN MING XIANG CHA CAI *Isodon kunmingensis*. Ref: 4067.

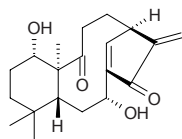
**18475 Rabdolasional**

$C_{22}H_{30}O_7$ (406.48). $[\alpha]_D^{27} = +7.5^\circ$ ($c = 0.27$, MeOH). Source: CU GUO XIANG CHA CAI *Isodon lasiocarpa*. Ref: 4067.

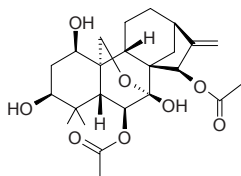


18476 Rabdolatifolin

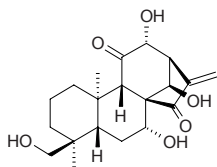
$C_{20}H_{28}O_4$ (332.44). Amorphous powder, $[\alpha]_D^{21} = -45.1^\circ$ ($c = 0.14$, MeOH).
 Source: YIN DI KUAN YE XIANG CHA CAI *Isodon umbrosa* var. *latifolia*.
 Ref: 4067.

**18477 Rabdolongin A**

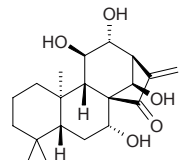
$C_{24}H_{34}O_8$ (450.53). mp 134–137°C, $[\alpha]_D^{23} = -75.5^\circ$ ($c = 1.02$, MeOH). Source:
 CHANG GUAN XIANG CHA CAI *Rabdosia longituba*. Ref: 660, 4067.

**18478 Rabdoloxin A**

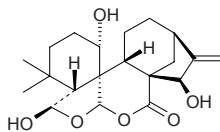
$C_{20}H_{28}O_6$ (364.44). mp 220–222°C, $[\alpha]_D^{25} = -62.9^\circ$ ($c = 0.70$, C_5H_5N). Source:
 WAN ZHUI XIANG CHA CAI *Isodon loxothyrsa*. Ref: 4067.

**18479 Rabdoloxin B**

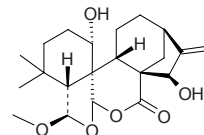
$C_{20}H_{30}O_5$ (350.46). mp 283–285°C, $[\alpha]_D^{25} = -59.5^\circ$ ($c = 0.84$, C_5H_5N). Source:
 WAN ZHUI XIANG CHA CAI *Isodon loxothyrsa*. Ref: 4067.

**18480 Rabdonervosin A**

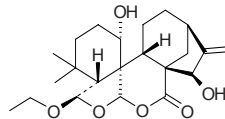
1 α ,6 β ,15 β -Trihydroxy-6,7-B-seco-ent-kaur-16-en-6,20-epoxy-7,20- δ -olide
 $C_{20}H_{28}O_6$ (364.44). White acicular crystals (ethyl acetate), mp 312–314°C.
 Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 496, 4067.

**18481 Rabdonervosin B**

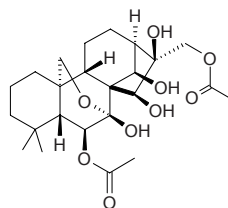
$C_{21}H_{30}O_6$ (378.47). White acicular crystals, mp 300–302°C. Source: XIAN
 MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 828, 4067.

**18482 Rabdonervosin C**

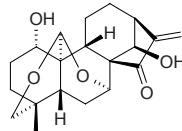
$C_{22}H_{32}O_6$ (392.5). White acicular crystals (ethyl acetate), mp 297–299°C.
 Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 786.

**18483 Rabdophyllin H**

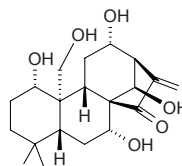
[102641-82-7] $C_{24}H_{36}O_9$ (468.55). White crystals, mp 234–236°C, mp
 220–222°C. Pharm: Antineoplastic (mus, EAC, biotic prolonged rate =
 188.9% $p < 0.01$); cytotoxic (hmn, liver cell strain QGY-7703, *in vitro*, IC_{50} =
 3.87 μ g/mL). Source: DA YE XIANG CHA CAI *Rabdosia macrophylla* (leaf).
 Ref: 45, 1409, 4067.

**18484 Rabdoserrin A**

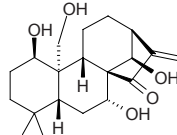
[96685-01-7] $C_{20}H_{26}O_5$ (346.43). Colorless lamellar crystals
 (chloroform–ethanol), mp 312–314°C, $[\alpha]_D^{20} = -98.2^\circ$ ($c = 1.4$, DMF) Pharm:
 Cytotoxic (HeLa, 4 μ g/mL, InRt = 87.6%). Source: NEI ZHE XIANG CHA
 CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*] (leaf: yield = 0.057%), XI
 HUANG CAO *Rabdosia serra* (stem and leaf). Ref: 29, 900, 4067.

**18485 Rabdoserrin B**

[96685-00-6] $C_{20}H_{30}O_6$ (366.46). mp 278–280°C, $[\alpha]_D^{20} = -95.8^\circ$ ($c = 0.6$,
 pyridine). Pharm: Cytotoxic (*in vitro*, P_{388} , ED_{50} = 1.01 μ g/mL; HeLa)^[3012].
 Source: NEI ZHE XIANG CHA CAI *Isodon inflexa* [Syn. *Rabdosia inflexa*]
 (leaf: yield = 0.011%), WEI YE XIANG CHA CAI *Rabdosia excisa* (aerial
 parts: yield = 0.00053% dw), XI HUANG CAO *Rabdosia serra*. Ref: 660, 900,
 3012, 4067.

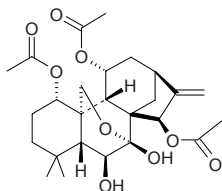
**18486 Rabdoserrin D**

$C_{20}H_{30}O_5$ (350.46). Source: XI HUANG CAO *Rabdosia serra*. Ref: 660,
 4067.

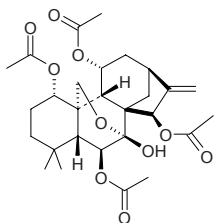


18487 Rabdosiainin A

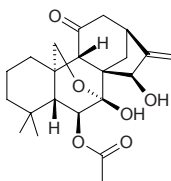
$C_{26}H_{36}O_9$ (492.57). Source: SI GUO XIANG CHA CAI *Rabdosisia shikokiana*.
Ref: 660, 4067.

**18488 Rabdosiainin B**

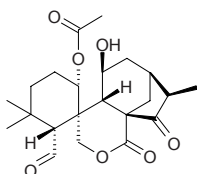
$C_{28}H_{38}O_{10}$ (534.61). Source: SI GUO XIANG CHA CAI *Rabdosisia shikokiana*.
Ref: 660, 4067.

**18489 Rabdosiainin C**

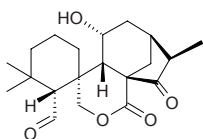
$C_{22}H_{30}O_6$ (390.48). mp 222~225°C, $[\alpha]_D^{20} = -170^\circ$ ($c = 0.15$, $CHCl_3$). Source:
 SI GUO XIANG CHA CAI *Rabdosisia shikokiana*. Ref: 4067.

**18490 Rabdosichuanin A**

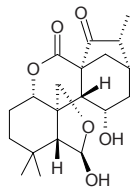
$C_{22}H_{30}O_7$ (406.48). mp 225~227°C, $[\alpha]_D^{25} = +107.27^\circ$ ($c = 0.55$, MeOH).
Source: SI CHUAN XIANG CHA CAI *Isodon setschwanensis*. Ref: 4067.

**18491 Rabdosichuanin B**

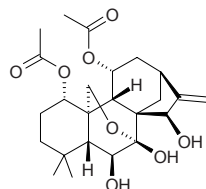
$C_{20}H_{28}O_5$ (348.33). mp 241~243°C, $[\alpha]_D^{24} = -58.16^\circ$ ($c = 0.576$, MeOH).
Source: SI CHUAN XIANG CHA CAI *Isodon setschwanensis*. Ref: 4067.

**18492 Rabdosichuanin C**

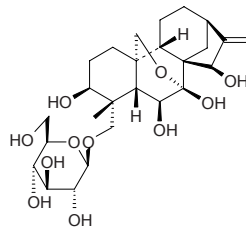
$C_{20}H_{28}O_6$ (364.44). mp 231~233°C, $[\alpha]_D^{25} = -120.94^\circ$ ($c = 0.55$, MeOH).
Source: SI CHUAN XIANG CHA CAI *Isodon setschwanensis*. Ref: 4067.

**18493 Rabdosichuanin D**

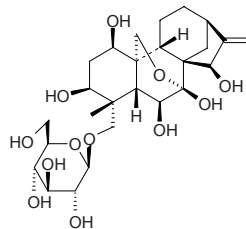
$C_{24}H_{34}O_8$ (450.53). mp 246~248°C, $[\alpha]_D^{25} = -32.79^\circ$ ($c = 0.427$, MeOH).
Source: SI CHUAN XIANG CHA CAI *Isodon setschwanensis*. Ref: 4067.

**18494 Rabdoside 1**

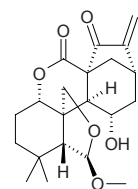
$C_{26}H_{40}O_{11}$ (528.60). mp 179~180°C, $[\alpha]_D^{26.5} = -4.6^\circ$ ($c = 1.0$, MeOH). Source:
 MAO E XIANG CHA CAI *Rabdosisia eriocalyx*. Ref: 660, 4067.

**18495 Rabdoside 2**

$C_{26}H_{40}O_{12}$ (544.60). mp 170~171°C, $[\alpha]_D^{26.5} = -4.5^\circ$ ($c = 1.0$, MeOH). Source:
 MAO E XIANG CHA CAI *Rabdosisia eriocalyx*. Ref: 660, 4067.

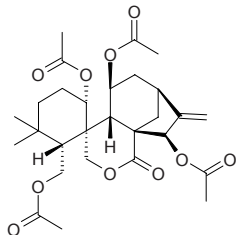
**18496 Rabdosin A**

$C_{21}H_{28}O_6$ (376.45). mp 200~202°C, $[\alpha]_D^{13} = -40.1^\circ$ ($c = 1.07$, C_5H_5N). Source:
 MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosisia japonica*]. Ref:
 4067.

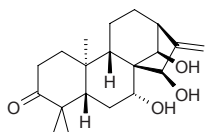


18497 Rabdosiolate

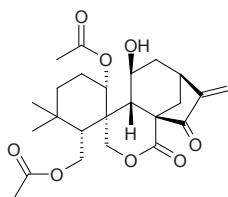
$C_{28}H_{38}O_{10}$ (534.61). mp 216~218°C, $[\alpha]_D = -47.2^\circ$ ($c = 0.44$, $CHCl_3$). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosisia japonica*]. Ref: 4067.

**18498 Rabdosiin**

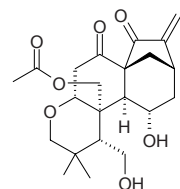
$C_{20}H_{30}O_4$ (334.46). mp 271~272.5°C, $[\alpha]_D^{16} = -108^\circ$ ($c = 0.001$, MeOH). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosisia japonica*]. Ref: 4067.

**18499 Rabdosisin B**

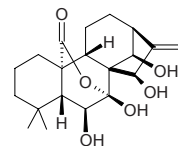
Exidonin $C_{24}H_{32}O_8$ (448.52). mp 182~184°C, $[\alpha]_D^{13} = 130.6^\circ$ ($c = 2.20$, C_5H_5N). Pharm: Cytotoxic (K562, $IC_{50} = 4.61 \mu\text{mol/L}$, control Cisplatin $IC_{50} = 3.84 \mu\text{mol/L}$; Bcap37, $IC_{50} = 15.84 \mu\text{mol/L}$, Cisplatin $IC_{50} = 1.54 \mu\text{mol/L}$; BGC823, $IC_{50} = 10.93 \mu\text{mol/L}$, Cisplatin $IC_{50} = 2.54 \mu\text{mol/L}$; CA, $IC_{50} > 100 \mu\text{mol/L}$, Cisplatin $IC_{50} = 0.88 \mu\text{mol/L}$; HeLa, $IC_{50} > 100 \mu\text{mol/L}$, Cisplatin $IC_{50} = 3.60 \mu\text{mol/L}$)^[4353]. Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosisia japonica*]. Ref: 5, 4067, 4353.

**18500 Rabdosisin C**

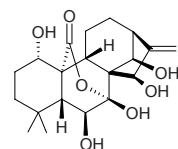
[82460-75-1] $C_{22}H_{30}O_7$ (406.48). mp 266~268°C. Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosisia japonica*]. Ref: 5.

**18501 Rabdotermin A**

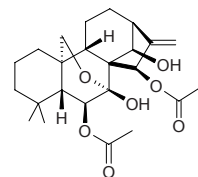
$C_{20}H_{28}O_6$ (364.44). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), NIU WEI CAO *Isodon ternifolia*. Ref: 660, 4067, 4353.

**18502 Rabdotermin B**

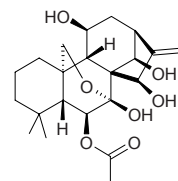
$C_{20}H_{28}O_7$ (380.44). Source: LU SHAN XIANG CHA CAI *Isodon rubescens* var. *lushanensis* (leaf), NIU WEI CAO *Isodon ternifolia*. Ref: 660, 4067, 4353.

**18503 Rabdotermin C**

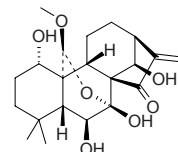
Rubescensin E $C_{24}H_{34}O_7$ (434.53). Source: DONG LING CAO *Rabdosisia rubescens*, NIU WEI CAO *Isodon ternifolia*. Ref: 660, 1521, 4067.

**18504 Rabdotermin D**

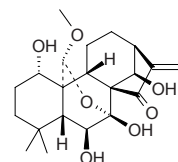
$C_{22}H_{32}O_7$ (408.50). $[\alpha]_D = -43.3^\circ$ ($c = 0.38$, MeOH). Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus* (leaf), NIU WEI CAO *Isodon ternifolia*. Ref: 4067, 5182.

**18505 Rabdotermin E**

$C_{21}H_{30}O_7$ (394.47). $[\alpha]_D^{21} = -47.2^\circ$ ($c = 0.67$, MeOH). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

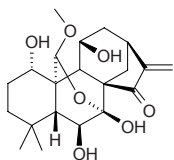
**18506 Rabdotermin F**

$C_{21}H_{30}O_7$ (394.47). $[\alpha]_D^{26} = -78.8^\circ$ ($c = 0.29$, MeOH). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

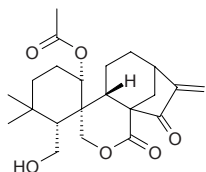


18507 Rabdoternin G

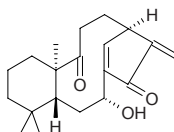
$C_{22}H_{30}O_7$ (394.47). $[\alpha]_D^{26} = -103.0^\circ$ ($c = 0.59$, MeOH). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

**18508 Rabdoternin H**

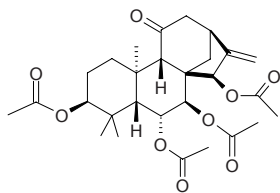
$C_{22}H_{30}O_6$ (390.48). Colorless needles (MeOH), mp 246~248°C, $[\alpha]_D^{24.9} = +36.3^\circ$ ($c = 0.903$, MeOH). Source: CHONG YA YAO *Isodon ternifolius*. Ref: 2265.

**18509 Rabdoubrosanin**

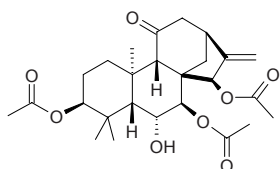
$C_{20}H_{28}O_3$ (316.44). $[\alpha]_D^{22} = -40.6^\circ$ ($c = 0.16$, MeOH). Source: YIN DI XIANG CHA CAI *Isodon umbrosa*. Ref: 4067.

**18510 Rabyuennane A**

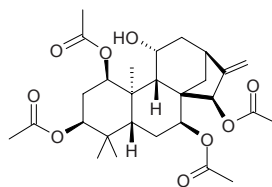
$C_{28}H_{38}O_9$ (518.61). Source: BU YU HONG *Rabdosia yuennanensis*. Ref: 660, 4067.

**18511 Rabyuennane B**

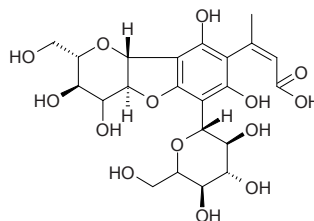
$C_{26}H_{36}O_8$ (476.57). Source: BU YU HONG *Rabdosia yuennanensis*. Ref: 660, 4067.

**18512 Rabyuennane C**

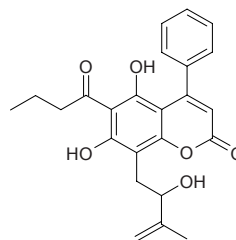
$C_{28}H_{40}O_9$ (520.63). Source: BU YU HONG *Rabdosia yuennanensis*. Ref: 660, 4067.

**18513 Racemosic acid**

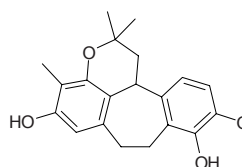
(*rel*)-4,6-Dihydroxy-5-[3-methyl-(*E*)-propenoic acid-3-yl]-7 β -glucopyranosyl-{2 α ,3 β -dihydrobenzofuran}-(3,2:b)-[4 α ,5 β -dihydroxy-6 α -hydroxymethyltetrahydro]dropyran $C_{27}H_{28}O_{14}$ (516.46). Pharm: Anti-Inflammatory (*in vitro*, COX-1 inhibitor, $IC_{50} = (90.1 \pm 3.4) \mu\text{mol/L}$, control Indomethacin, $IC_{50} = (9.5 \pm 0.1) \mu\text{mol/L}$; 5-LOX inhibitor, $IC_{50} = (18.5 \pm 0.3) \mu\text{mol/L}$, Indomethacin, $IC_{50} = 65.2 \mu\text{mol/L}$). Source: JU GUO RONG *Ficus racemosa* (bark). Ref: 4971.

**18514 Racemosol**

$C_{24}H_{24}O_6$ (408.46). Yellow prisms (C_6H_{14} :EtOAc = 9:1), mp 140.8°C, $[\alpha]_D = 0^\circ$ ($c = 0.8$, $CHCl_3$). Source: ZONG ZHUANG TIE LI MU *Mesua racemosa*. Ref: 1871.

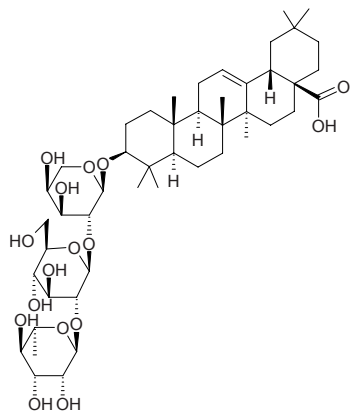
**18515 Racemosol†**

[103805-86-3] $C_{21}H_{24}O_4$ (340.42). Pharm: Cytotoxic (KB, $EC_{50} = 15.0 \mu\text{g/mL}$, control Ellipticine, $EC_{50} = 0.3 \mu\text{g/mL}$; BC, $EC_{50} = 6.1 \mu\text{g/mL}$, Ellipticine, $EC_{50} = 0.3 \mu\text{g/mL}$)^[5092]; antimalarial (*Plasmodium falciparum*, $EC_{50} = 0.9 \mu\text{g/mL}$, control Chloroquine diphosphate, $EC_{50} = 0.16 \mu\text{g/mL}$)^[5092]. Source: MA LA BA YANG TI JIA *Bauhinia malabarica* (root), ZONG ZHUANG HUA YANG TI JIA *Bauhinia racemosa*. Ref: 1521, 5092.

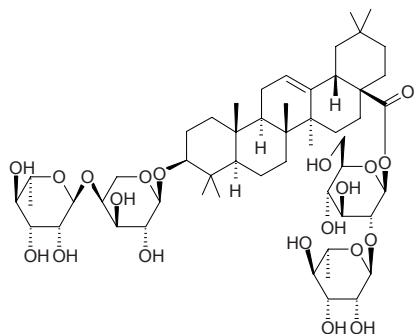


18516 Raddeanin A

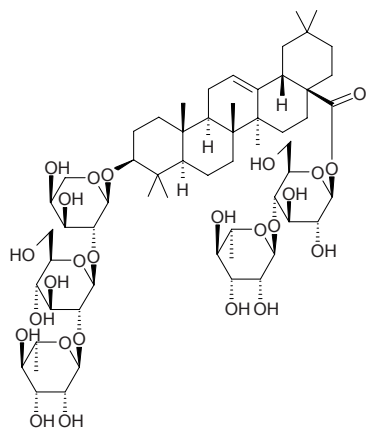
$C_{47}H_{76}O_{16}$ (897.12). Source: DUO BEI YIN LIAN HUA *Anemone raddeana* (dried rhizome: mean content = 0.32%^[5508]). Ref: 660, 5508.

**18517 Raddeanin C**

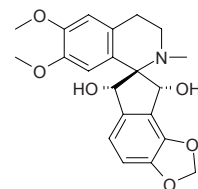
$C_{53}H_{86}O_{20}$ (1043.26). Source: DUO BEI YIN LIAN HUA *Anemone raddeana*. Ref: 660.

**18518 Raddeanin D**

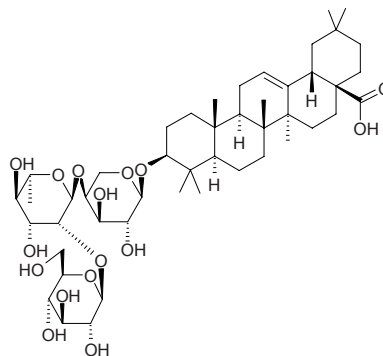
$C_{59}H_{96}O_{25}$ (1205.41). Source: DUO BEI YIN LIAN HUA *Anemone raddeana*. Ref: 660.

**18519 Raddeanine**

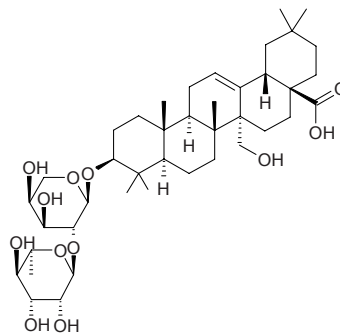
Sipeimine† $C_{21}H_{23}NO_6$ (385.42). Source: KU MANG HUANG JIN *Corydalis govaniana*, XIAO HUANG ZI JIN *Corydalis ochotensis* var. *raddeana*. Ref: 660, 1521.

**18520 Raddeanin E**

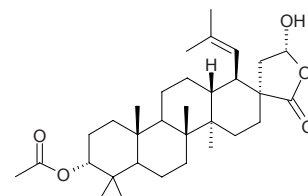
$C_{47}H_{76}O_{16}$ (897.12). Source: DUO BEI YIN LIAN HUA *Anemone raddeana*. Ref: 660.

**18521 Raddeanoside**

27-Hydroxyolean-12-en-28-oic-acid-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside $C_{41}H_{66}O_{12}$ (750.98). White powder, mp 274–276°C. Source: DUO BEI YIN LIAN HUA *Anemone raddeana*. Ref: 2240.

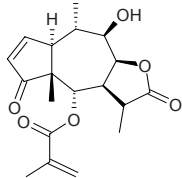
**18522 Radermasinin**

$C_{32}H_{50}O_5$ (514.75). Pharm: Cytotoxic. Source: CAI DOU SHU *Radermachera sinica*. Ref: 660, 1521.

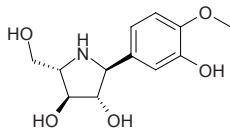


18523 Radiatin

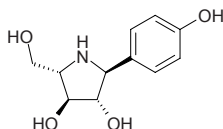
[25873-31-8] C₁₉H₂₄O₆ (348.40). mp 184~188°C, 202~204°C. **Pharm:** Antineoplastic (mus P₃₈₈ *in vivo*, 25mg/kg, biotic prolonged rate = 61%); cytotoxic (mus, P₃₈₈ *in vitro*, ED₅₀ = 0.39µg/mL; mus, L₁₂₁₀ *in vitro*, ED₅₀ = 1.2µg/mL; KB *in vitro*, ED₅₀ = 1.6µg/mL). **Source:** BAI LAI SHI JU *Baileya multiradiata*. **Ref:** 5, 658.

**18524 Radicamine A**

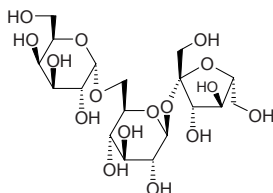
(2*S*,3*S*,4*S*,5*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(3-hydroxy-4-methoxyphenyl)-pyrrolidine C₁₂H₁₇NO₅ (255.27). Pale yellow oil, [α]_D = +43.7° (c = 0.13, H₂O). **Pharm:** α-Glucosidase inhibitor (IC₅₀ = 6.7µmol/L, control DMDP, IC₅₀ = 4.9µmol/L). **Source:** BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*]. **Ref:** 4134.

**18525 Radicamine B**

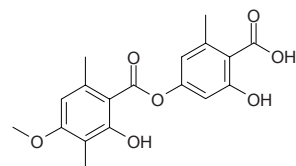
(2*S*,3*S*,4*S*,5*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(4-hydroxyphenyl)-pyrrolidine C₁₁H₁₅NO₄ (225.25). Pale yellow oil, [α]_D = +72.0° (c = 0.10, H₂O). **Pharm:** α-Glucosidase inhibitor (IC₅₀ = 9.3µmol/L, control DMDP, IC₅₀ = 4.9µmol/L). **Source:** BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*]. **Ref:** 4134.

**18526 Raffinose**

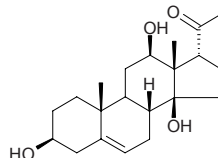
D-Raffinose pentahydrate [512-69-6] C₁₈H₃₂O₁₆ (504.45). mp 118~119°C. **Source:** CHE QIAN *Plantago asiatica*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 660.

**18527 Ramalic acid**

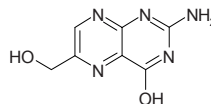
[500-37-8] C₁₈H₁₈O₇ (346.34). mp 203°C (dec). **Source:** SONG LUO *Usnea longissima*. **Ref:** 6.

**18528 Ramanone**

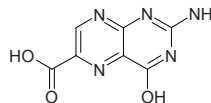
C₂₁H₃₂O₄ (348.49). **Source:** LUO MO ZI *Metaplexis japonica*. **Ref:** 660.

**18529 Ranachrome 3**

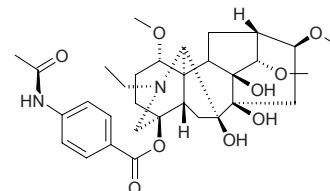
C₇H₇N₅O₂ (193.17). **Source:** QING WA *Rana nigromaculata*; *Rana plancyi*. **Ref:** 6.

**18530 Ranachrome 5**

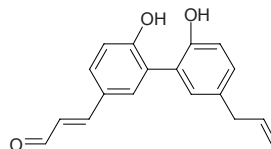
2-Amino-4-hydroxy-pteridine-6-carboxylic acid C₇H₅N₅O₃ (207.15). **Source:** QING WA *Rana nigromaculata*; *Rana plancyi*, JIN YU *Carassius auratus*. **Ref:** 6.

**18531 Ranaconitine**

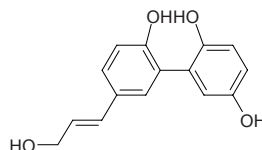
C₃₂H₄₄N₂O₉ (600.72). **Source:** GAN WAN WU TOU *Aconitum finetianum*, GAO WU TOU *Aconitum sinomontanum*, NIU BIAN *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*]. **Ref:** 660, 1521.

**18532 Randainal**

[87562-13-8] C₁₈H₁₆O₃ (280.33). **Source:** HOU PO *Magnolia officinalis*. **Ref:** 2.

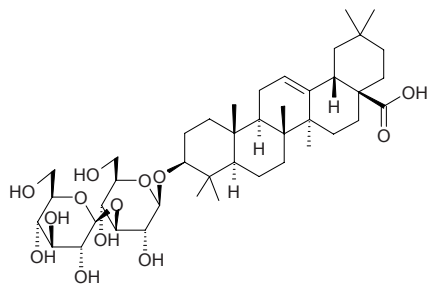
**18533 Randaiol**

5-Allyl-2,2',5'-trihydroxybiphenyl C₁₅H₁₄O₄ (258.28). **Source:** TAI WAN CHA MU *Sassafras randainense*. **Ref:** 427.

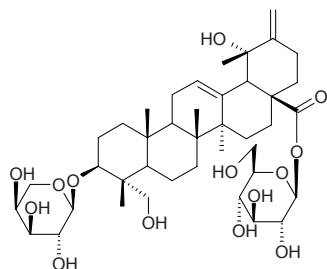


18534 Radianin

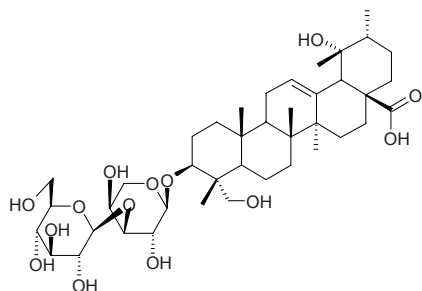
[72786-31-3] C₄₂H₆₈O₁₃ (780.79). Amorphous powder, mp 290~295°C (dec), [α]_D²⁵ = +0.22° (c = 0.036, methanol). Pharm: Immunoenhancer (*in vitro*, promotes multiplication of lymphocyte T in 10ng/mL~10pg/mL); hemolytic (ox erythrocyte, HC₅₀ = 2mg/L); molluscicide (planorbid test, LC₅₀ = 3mg/L). Source: LIAO DONG CONG MU *Aralia elata*. Ref: 900.

**18535 Radiansaponin I**

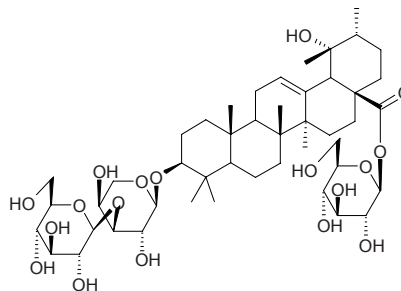
3-*O*-*α*-L-Arabinopyranosyl-3β,19α,23-trihydroxyursa-12,20(30)-dien-28-oic acid 28-β-*D*-glucopyranosyl ester C₄₁H₆₄O₁₄ (780.96). White powder, [α]_D²⁰ = +45.9° (c = 0.17, MeOH). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**18536 Radiansaponin II**

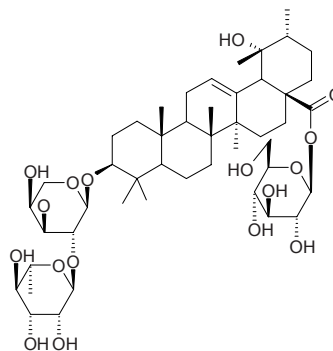
3-*O*-β-*D*-Glucopyranosyl-(1→3)-*α*-L-arabinopyranosyl rotundic acid C₄₁H₆₆O₁₄ (782.97). White powder, [α]_D²⁰ = +10.9° (c = 0.12, MeOH). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**18537 Radiansaponin III**

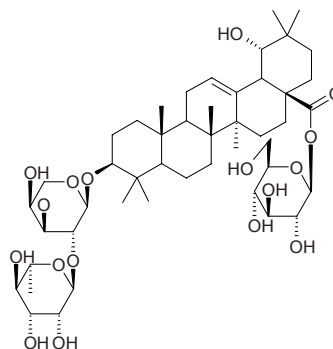
3-*O*-β-*D*-Glucopyranosyl-(1→3)-*α*-L-arabinopyranosyl pomolic acid 28-β-*D*-glucopyranosyl ester C₄₇H₇₆O₁₈ (929.12). White powder, [α]_D²⁰ = +6.67° (c = 0.33, MeOH). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**18538 Radiansaponin IV**

3-*O*-*α*-L-Rhamnopyranosyl-(1→2)-*α*-L-arabinopyranosyl pomolic acid 28-β-*D*-glucopyranosyl ester C₄₇H₇₆O₁₇ (913.12). White powder, [α]_D²⁰ = -65° (c = 0.24, MeOH). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

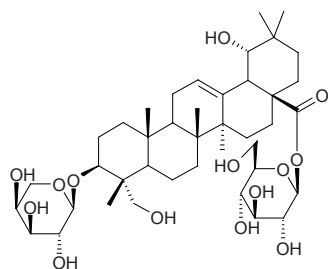
**18539 Radiansaponin V**

3-*O*-*α*-L-Rhamnopyranosyl-(1→2)-*α*-L-arabinopyranosyl siaresinolic acid 28-β-*D*-glucopyranosyl ester C₄₇H₇₆O₁₇ (913.12). White powder, [α]_D²⁰ = -29.6° (c = 0.24, MeOH). Source: BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

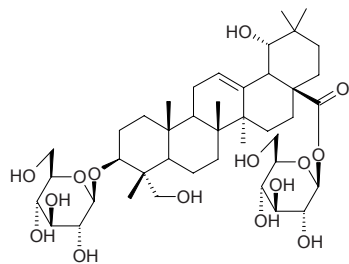


18540 Randiasaponin VI

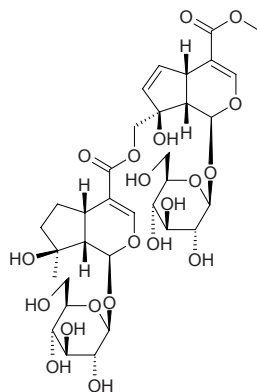
3-*O*- α -L-Arabinopyranosyl ilexosapogenin A 28- β -D-glucopyranosyl ester
 $C_{41}H_{66}O_{14}$ (782.97). White powder, $[\alpha]_D^{20} = +7.1^\circ$ ($c = 0.14$, MeOH). Source:
 BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**18541 Randiasaponin VII**

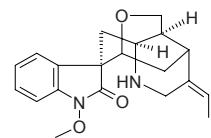
3-*O*- β -D-Glucopyranosyl ilexosapogenin A 28- β -D-glucopyranosyl ester
 $C_{42}H_{68}O_{15}$ (813.00). White powder, $[\alpha]_D^{20} = +16.6^\circ$ ($c = 0.35$, MeOH). Source:
 BA NA MA SHAN SHI LIU *Randia formosa* (leaf). Ref: 3951.

**18542 Randinoside**

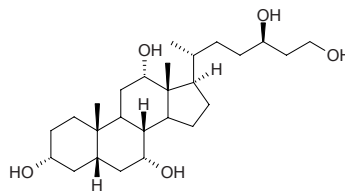
$C_{33}H_{46}O_{20}$ (762.72). White powder, $[\alpha]_D^{20} = -6.5^\circ$ ($c = 1.7$, MeOH). Source:
 SHAN SHI LIU *Randia spinosa*. Ref: 3380.

**18543 Rankinidine**

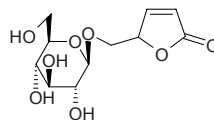
[106466-66-4] $C_{20}H_{24}N_2O_3$ (340.43). mp 175~178°C, $[\alpha]_D = -126^\circ$. Source:
 GOU WEN *Gelsemium elegans*. Ref: 214.

**18544 Ranol**

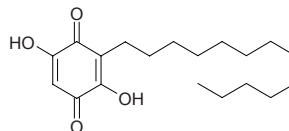
[67392-10-3] $C_{26}H_{46}O_5$ (438.65). Source: HA SHI MA *Rana temporaria*
chensinensis; *Rana amurensis*. Ref: 6.

**18545 Ranunculin**

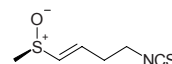
[644-69-9] $C_{11}H_{16}O_8$ (276.25). mp 141~142°C. Pharm: Cytotoxic (RB, $IC_{50} =$
 $0.21 \mu\text{mol/L}$, Bel7420, $IC_{50} = 0.35 \mu\text{mol/L}$); antimutagenic (back mutation of
Salmonella typhimurium TA₁₀₀ and TA₁₀₂ induced by mitomycin, InRt = 70%);
 causes blistering in cuticle. Source: BAI TOU WENG *Pulsatilla chinensis*
 (root: content = 0.66%^[5501]), SHI LONG RUI *Ranunculus sceleratus*. Ref: 6,
 658, 5501.

**18546 Rapanone**

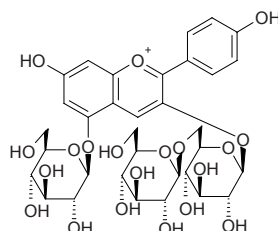
[573-40-0] $C_{19}H_{30}O_4$ (322.45). Brown lamellar crystals (hexane-ethanol), mp
 141~142°C; orange glittering lamellar crystals (CCl₄), mp 137~142°C. Pharm:
 Anthelmintic. Source: LA ZHU GUO *Aegiceras corniculatum*, DA WEI YAO
Heliotropium indicum, ZHU SHA GEN *Ardisia crenata*, *Ardisia* sp., *Myrsine*
 sp. Ref: 660, 658, 1521.

**18547 Raphanin**

$C_6H_9NOS_2$ (175.27). Pharm: Antibacterial (*Staphylococcus aureus*,
Escherichia coli, EC = 1 mg/mL); antifungal; cytotoxic (shows potential
 cancer protective properties) Source: LAI FU ZI *Raphanus sativus*. Ref: 1521,
 5501.

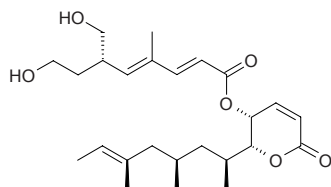
**18548 Raphanusin**

Rubrobrassicin [75093-88-8] $C_{33}H_{41}O_{20}^+$ (757.68). Source: LAI FU *Raphanus*
sativus. Ref: 660.

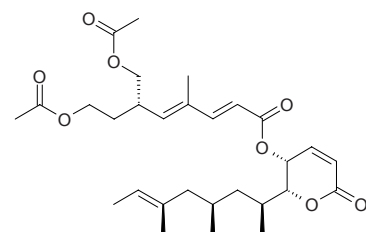


18549 Rasfonin

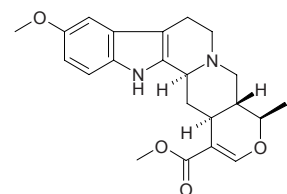
$C_{25}H_{38}O_6$ (434.58). White amorphous powder, $[\alpha]_D^{24} = -223.6^\circ$ ($c = 6.00$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 0.7\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 0.5\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**18550 Rasfonin diacetate**

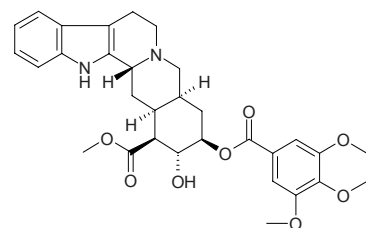
$C_{29}H_{42}O_8$ (518.65). Colorless amorphous powder, $[\alpha]_D^{23} = -95.7^\circ$ ($c = 0.72$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 6.0\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 6.9\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**18551 Raumitorine**

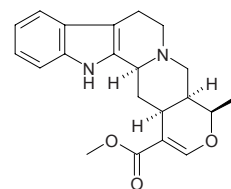
$C_{22}H_{26}N_2O_4$ (382.46). **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*. **Ref:** 660.

**18552 Raunescine**

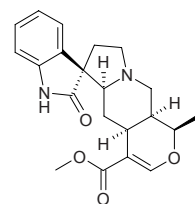
[117-73-7] $C_{31}H_{36}N_2O_8$ (564.64). mp 160~170°C. **Pharm:** Antihypertensive; sedative; used in treatment of arrhythmia. **Source:** LUO FU MU *Rauwolfia verticillata*. **Ref:** 6, 658.

**18553 Rauniticine**

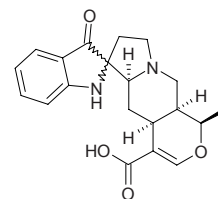
$C_{21}H_{24}N_2O_3$ (352.44). **Source:** GUANG LIANG LUO FU MU *Rauwolfia nitida*, MIAN MAO GOU TENG *Uncaria lanosa*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 1521, 5341.

**18554 Rauniticine oxindole A**

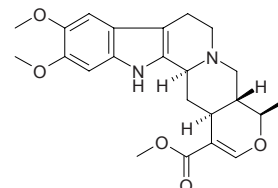
$C_{21}H_{24}N_2O_4$ (368.44). **Source:** TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

**18555 Rauniticine pseudoindoxyl**

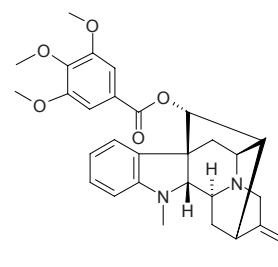
$C_{20}H_{22}N_2O_4$ (354.41). **Source:** TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

**18556 Rauvanine**

$C_{23}H_{28}N_2O_5$ (412.49). **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*. **Ref:** 660.

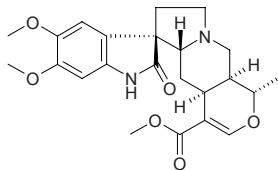
**18557 Rauvomitine**

$C_{30}H_{34}N_2O_5$ (502.62). **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*, GANG GUO LUO FU MU *Rauwolfia obscura*. **Ref:** 660, 1521.

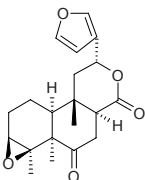


18558 Rauvoxine

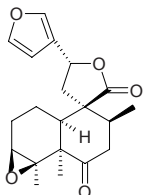
$C_{23}H_{28}N_2O_6$ (428.49). Source: CUI TU LUO FU MU *Rauvolfia vomitoria*.
Ref: 660.

**18559 Ravidin A**

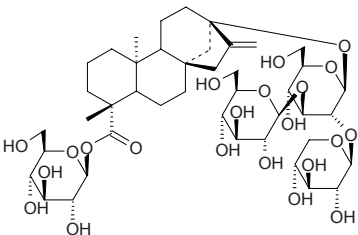
$C_{20}H_{24}O_5$ (344.41). Colorless crystals, mp 171~173°C, $[\alpha]_D^{25} = -22.45^\circ$ ($c = 0.530$, $CHCl_3$). Source: QIAN HUI MAO GUAN JU *Nannoglottis ravida* (root). Ref: 3852.

**18560 Ravidin B**

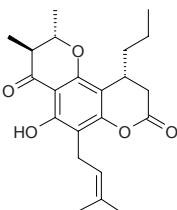
$C_{20}H_{24}O_5$ (344.41). White amorphous solid, $[\alpha]_D^{25} = -77.50^\circ$ ($c = 0.120$, $CHCl_3$).
Source: QIAN HUI MAO GUAN JU *Nannoglottis ravida* (root). Ref: 3852.

**18561 Rebaudioside F**

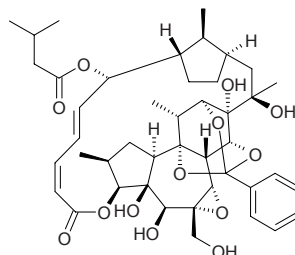
$C_{43}H_{68}O_{22}$ (937.01). Non-crystalline solid, $[\alpha]_D = 25.5^\circ$ ($c = 1.0$, MeOH).
Source: TIAN YE JU *Eupatorium rebaudianum*. Ref: 1987.

**18562 Recedensolide**

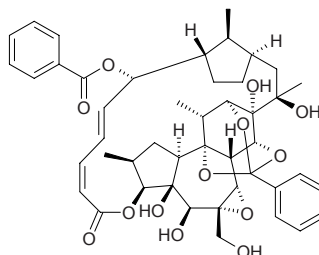
$C_{22}H_{28}O_5$ (372.47). Yellow oil, $[\alpha]_D^{25} = -76.1^\circ$ ($c = 1.0$, CH_2Cl_2). Pharm: Cytotoxic (KB, $ED_{50} = 6.81\mu g/mL$, HeLa, $ED_{50} = 6.27\mu g/mL$, hmn medulloblastoma, $ED_{50} = 12.49\mu g/mL$, control Doxorubicin, $ED_{50} = 0.15\mu g/mL$, $0.14\mu g/mL$, $0.19\mu g/mL$ respectively). Source: *Calophyllum blancoi* (seed). Ref: 4274.

**18563 Rediocide A**

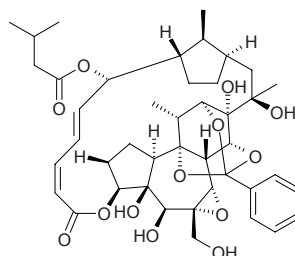
$C_{44}H_{58}O_{13}$ (794.95). White powder, mp 193~195°C, $[\alpha]_D^{30} = -124.0^\circ$ ($c = 0.1$, MeOH). Pharm: Acaricide (*Dermatophagoides pteronyssinus*, 7d, $LC_{50} = 2.53\mu g/cm^2$, control Benzyl benzoate, $LC_{50} = 6.6\mu g/cm^2$). Source: *Trigonostemon reidioides* (root). Ref: 4440.

**18564 Rediocide C**

$C_{46}H_{54}O_{13}$ (814.94). White powder, mp 191~193°C, $[\alpha]_D^{30} = -46.0^\circ$ ($c = 0.1$, MeOH). Pharm: Acaricide (*Dermatophagoides pteronyssinus*, 7d, $LC_{50} = 0.78\mu g/cm^2$, control Benzyl benzoate, $LC_{50} = 6.6\mu g/cm^2$). Source: *Trigonostemon reidioides* (root). Ref: 4440.

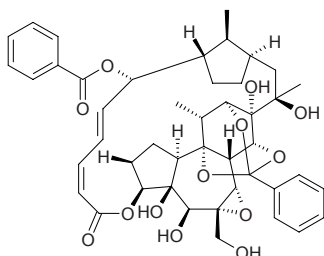
**18565 Rediocide E**

$C_{43}H_{56}O_{13}$ (780.92). White powder, mp 197~198°C, $[\alpha]_D^{30} = -14.0^\circ$ ($c = 0.1$, MeOH). Pharm: Acaricide (*Dermatophagoides pteronyssinus*, 7d, $LC_{50} = 5.59\mu g/cm^2$, control Benzyl benzoate, $LC_{50} = 6.6\mu g/cm^2$). Source: *Trigonostemon reidioides* (root). Ref: 4440.

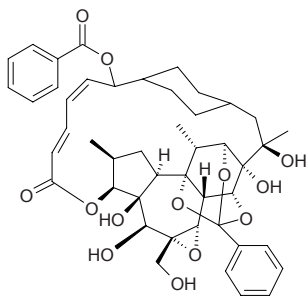


18566 Rediocide F

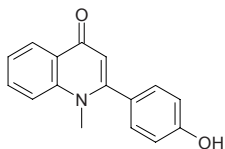
$C_{45}H_{52}O_{13}$ (800.91). White powder, mp 199–200°C, $[\alpha]_D^{30} = -292.0^\circ$ ($c = 0.1$, MeOH). **Pharm:** Acaricide (*Dermatophagoides pteronyssinus*, 7d, $LC_{50} = 0.92\mu\text{g}/\text{cm}^2$, control Benzyl benzoate, $LC_{50} = 6.6\mu\text{g}/\text{cm}^2$). **Source:** *Trigonostemon reidioides* (root). **Ref:** 4440.

**18567 Rediocide G**

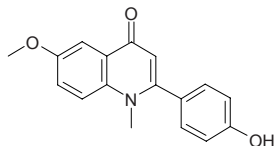
$C_{46}H_{54}O_{13}$ (814.94). White powder, mp >230°C (dec). **Pharm:** Cytotoxic. **Source:** *Trigonostemon reidioides* (root). **Ref:** 4519.

**18568 Reevesianine A**

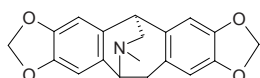
$C_{16}H_{13}NO_2$ (251.29). **Source:** YIN YU *Skimmia reevesiana*. **Ref:** 660.

**18569 Reevesianine B**

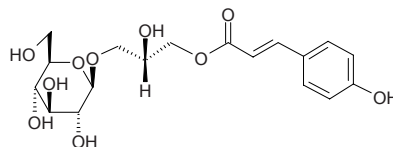
$C_{17}H_{15}NO_3$ (281.31). **Source:** YIN YU *Skimmia reevesiana*. **Ref:** 660.

**18570 Reframidine**

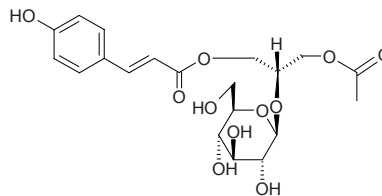
$C_{19}H_{17}NO_4$ (323.35). **Source:** LIE YE YE YING SU *Papaver nudicaule* var. *chinense*. **Ref:** 660.

**18571 Regaloside A**

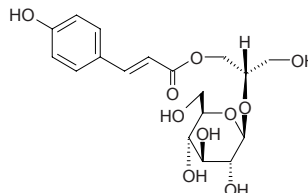
$C_{18}H_{24}O_{10}$ (400.39). **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], HEI BAI HE *Fritillaria camtschaticensis*, JUAN DAN *Lilium tigrinum* [Syn. *Lilium lancifolium*]. **Ref:** 660, 1521.

**18572 Regaloside B**

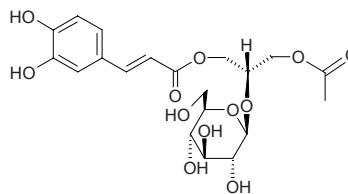
$C_{20}H_{26}O_{11}$ (442.42). **Source:** SHE XIANG BAI HE *Lilium longiflorum*. **Ref:** 660, 1521.

**18573 Regaloside D**

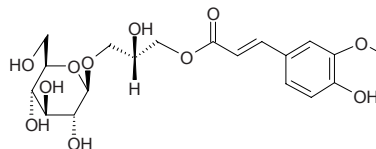
$C_{18}H_{24}O_{10}$ (400.39). **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], SHE XIANG BAI HE *Lilium longiflorum*. **Ref:** 660, 1521.

**18574 Regaloside E**

$C_{20}H_{26}O_{12}$ (458.42). **Source:** SHE XIANG BAI HE *Lilium longiflorum*. **Ref:** 660, 1521.

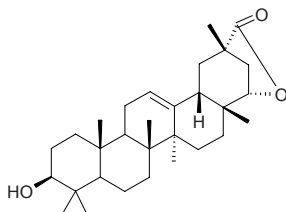
**18575 Regaloside F**

$C_{19}H_{26}O_{11}$ (430.41). **Source:** JUAN DAN *Lilium tigrinum* [Syn. *Lilium lancifolium*]. **Ref:** 660, 1521.

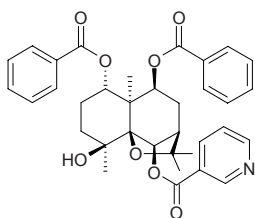


18576 Regelide

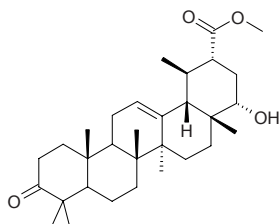
$C_{30}H_{46}O_3$ (454.70). Source: HEI MAN *Tripterygium regelii*, XIANG SI TENG *Abrus precatorius*. Ref: 660, 1521.

**18577 Regelidine**

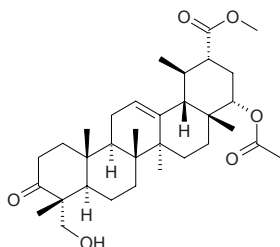
$C_{35}H_{37}NO_8$ (599.69). Source: HEI MAN *Tripterygium regelii*. Ref: 660, 1521.

**18578 Regelin**

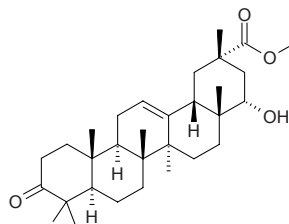
$C_{31}H_{48}O_4$ (484.73). Source: HEI MAN *Tripterygium regelii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 660, 1521.

**18579 Regelin C**

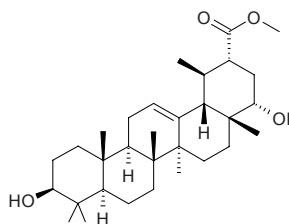
Methyl 3-oxo-22 α -acetoxy-23-hydroxy-urs-12-ene-30-oate [121880-06-6] $C_{33}H_{50}O_6$ (542.76). Colorless massive crystals, mp 161~163°C, $[\alpha]_D^{20} = +60^\circ$ ($c = 0.5$, $CHCl_3$). Source: HEI MAN *Tripterygium regelii*. Ref: 120.

**18580 Regelin D**

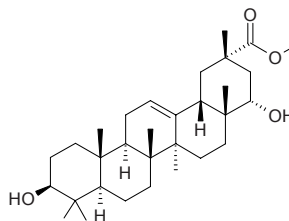
Methyl 3-oxo-22 α -hydroxy-olean-12-ene-29-oate [121880-07-7] $C_{31}H_{48}O_4$ (484.73). Colorless acicular crystals, mp 197~198°C, $[\alpha]_D^{20} = +54^\circ$ ($c = 0.3$, $CHCl_3$). Source: HEI MAN *Tripterygium regelii*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 120, 1521.

**18581 Regelindiol A**

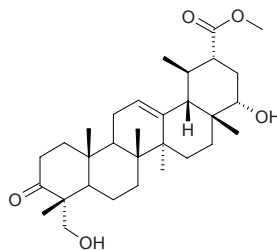
Methyl-3 β ,22 α -dihydroxy-urs-12-ene-30-oate [121880-08-8] $C_{31}H_{50}O_4$ (486.74). Colorless acicular crystals, mp 241~242°C, $[\alpha]_D^{20} = +57^\circ$ ($c = 0.2$, $CHCl_3$). Source: HEI MAN *Tripterygium regelii*. Ref: 120.

**18582 Regelindiol B**

Methylabrusgenate; Methyl-3 β ,22 α -dihydroxy-olean-12-ene-29-oate [84104-83-6] $C_{31}H_{50}O_4$ (486.74). Colorless acicular crystals, mp 198~199°C, $[\alpha]_D^{20} = +44^\circ$ ($c = 0.2$, $CHCl_3$). Source: HEI MAN *Tripterygium regelii*, XIANG SI TENG *Abrus precatorius*. Ref: 120, 1300.

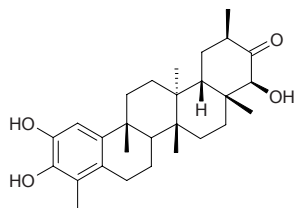
**18583 Regelinol**

$C_{31}H_{48}O_5$ (500.73). Source: HEI MAN *Tripterygium regelii*. Ref: 660, 1521.

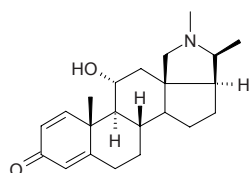


18584 Regeol A

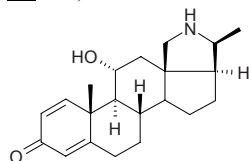
$C_{28}H_{40}O_4$ (440.63). **Pharm:** Antioxidant (DPPH scavenger, for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} = 10\mu\text{mol/L}$). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**18585 Regholarrhenine A**

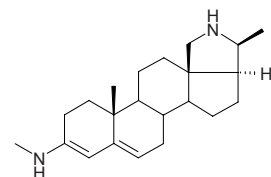
$C_{22}H_{31}NO_2$ (341.50). **Source:** ZHI XIE MU PI *Holarrhena antidysenterica*. **Ref:** 660, 1521.

**18586 Regholarrhenine B**

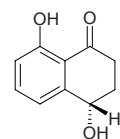
$C_{21}H_{29}NO_2$ (327.47). **Source:** ZHI XIE MU PI *Holarrhena antidysenterica*. **Ref:** 660, 1521.

**18587 Regholarrhenine C**

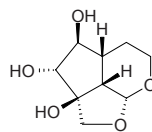
$C_{22}H_{34}N_2$ (326.53). **Source:** ZHI XIE MU PI *Holarrhena antidysenterica*. **Ref:** 660.

**18588 (-)-Regiolone**

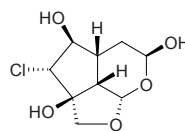
(4S)-4,8-Dihydroxy- α -tetralone $C_{10}H_{10}O_3$ (178.19). $[\alpha]_D^{26} = -11.3^\circ$ ($c = 0.20$, EtOH). **Pharm:** Cytotoxic inactive (MTT assay, HT29 cell line, MCF7 cell line)^[4321]. **Source:** DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana* (fruit), HU TAO QIU *Juglans mandshurica* (root), HU TAO SHU PI *Juglans regia* (bark), HUANG QI II *Engelhardia roxburghiana* (root). **Ref:** 660, 4321, 4492, 5059.

**18589 Rehmaglutin A**

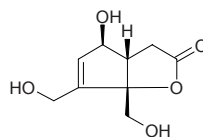
[103744-82-7] $C_9H_{14}O_5$ (202.21). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2, 660.

**18590 Rehmaglutin B**

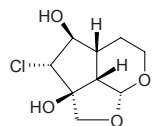
[103744-83-8] $C_9H_{13}ClO_5$ (236.65). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2, 660.

**18591 Rehmaglutin C**

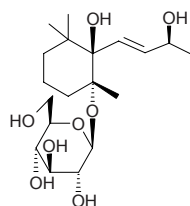
[103744-81-6] $C_9H_{12}O_5$ (200.19). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2, 660.

**18592 Rehmaglutin D**

[103744-84-9] $C_9H_{13}ClO_4$ (220.65). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2, 660, 5501.

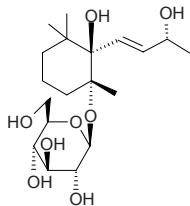
**18593 Rehmaionoside A**

[104112-06-3] $C_{19}H_{34}O_8$ (390.48). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2.

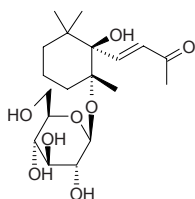


18594 Rehmaionoside B

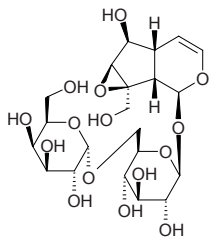
[104056-83-9] C₁₉H₃₄O₈ (390.48). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**18595 Rehmaionoside C**

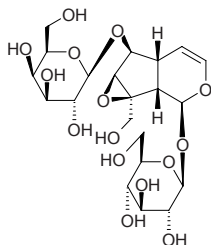
[104112-05-2] C₁₉H₃₂O₈ (388.46). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**18596 Rehmannioside A**

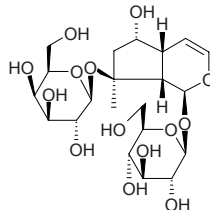
[81720-05-0] C₂₁H₃₂O₁₅ (524.48). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 660.

**18597 Rehmannioside B**

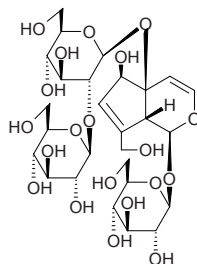
[81720-06-1] C₂₁H₃₂O₁₅ (524.48). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 660.

**18598 Rehmannioside C**

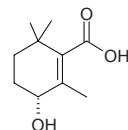
[81720-07-2] C₂₁H₃₄O₁₄ (510.50). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 660.

**18599 Rehmannioside D**

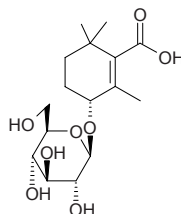
Melittoside 3''-O-β-glucopyranoside [81720-08-3] C₂₇H₄₂O₂₀ (686.62). Amorphous, [α]_D²⁰ = -36.1° (c = 0.7, MeOH). Pharm: Hypoglycemic (mus with spontaneous diabetes, orl, weak activity); antihepatotoxin (treatment of infection from hepatitis virus). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], KU LANG SHU *Clerodendrum inerme* (aerial parts), SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XIAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2, 660, 1787, 1788, 5186.

**18600 Rehmapicrogenin**

C₁₀H₁₆O₃ (184.24). Source: SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 660.

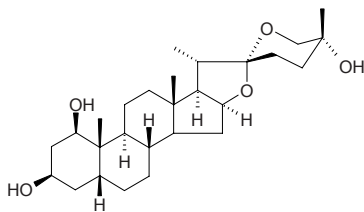
**18601 Rehmapicroside**

[104056-82-8] C₁₆H₂₆O₈ (346.38). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

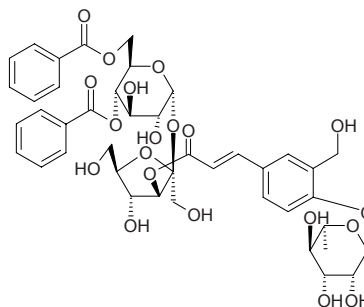


18602 Reineckiagenin

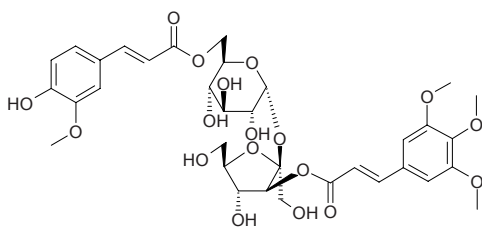
[6808-26-0] $C_{27}H_{44}O_5$ (448.65). mp 278~280°C. Source: JI XIANG CAO *Reineckea carnea*. Ref: 6.

**18606 Reinosio D**

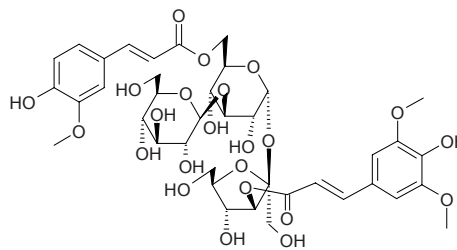
$C_{42}H_{48}O_{20}$ (872.84). $[\alpha]_D = -51.1^\circ$. Source: SHI YE CAO *Polygala reinii*, HUANG HUA YUAN ZHI *Polygala arillata*. Ref: 2184.

**18603 Reinosio A**

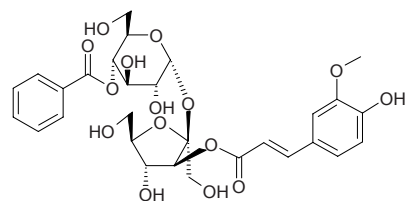
$C_{34}H_{42}O_{18}$ (738.70). $[\alpha]_D = -4.8^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18607 Reinosio E**

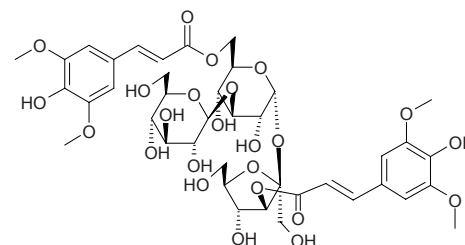
$C_{39}H_{50}O_{23}$ (886.82). $[\alpha]_D = -52.2^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18604 Reinosio B**

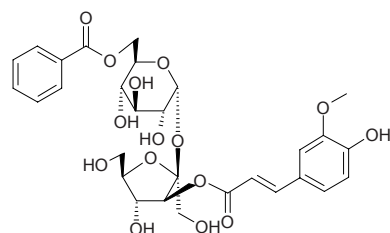
$C_{29}H_{34}O_{15}$ (622.59). $[\alpha]_D = -51.8^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18608 Reinosio F**

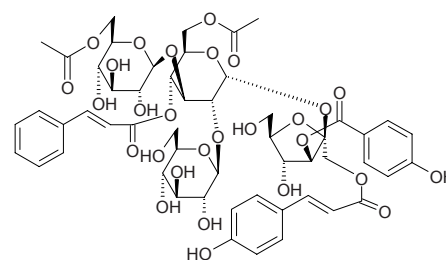
$C_{40}H_{52}O_{24}$ (916.85). $[\alpha]_D = -59.0^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18605 Reinosio C**

$C_{29}H_{34}O_{15}$ (622.59). $[\alpha]_D = -29.3^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

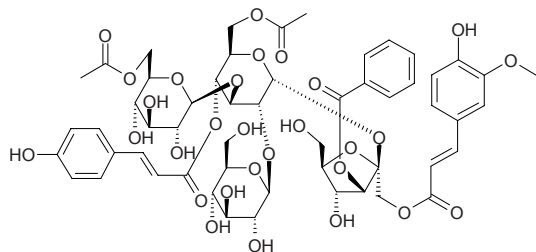
**18609 Reinosio G**

$C_{53}H_{62}O_{28}$ (1147.07). $[\alpha]_D = -30.6^\circ$. Source: GUANG LIANG YUAN ZHI *Polygala nitida*. Ref: 2184.

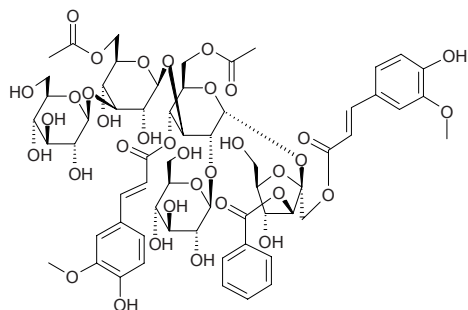


18610 Reiniose H

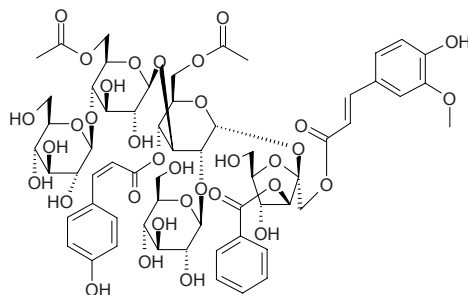
$C_{54}H_{64}O_{29}$ (1177.09). $[\alpha]_D = -15.7^\circ$. Source: GUANG LIANG YUAN ZHI *Polygala nitida*. Ref: 2184.

**18611 Reiniose I**

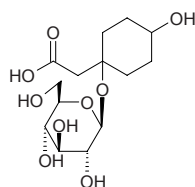
$C_{61}H_{76}O_{35}$ (1369.26). $[\alpha]_D = -21.0^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18612 Reiniose J**

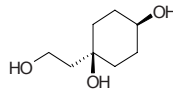
$C_{60}H_{74}O_{34}$ (1339.24). $[\alpha]_D = +2.6^\circ$. Source: SHI YE CAO *Polygala reinii*. Ref: 2184.

**18613 Rengynic acid 1'-O-β-D-glucoside**

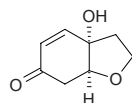
$C_{14}H_{24}O_9$ (336.34). White powder. Source: LIAN QIAO *Forsythia suspensa*. Ref: 2507.

**18614 Rengyol**

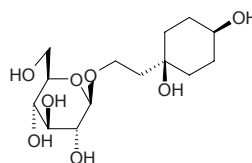
$C_8H_{16}O_3$ (160.21). Source: LIAN QIAO *Forsythia suspensa*, TONG LUO HAN *Milingtonia hortensis*. Ref: 660.

**18615 Rengyolone**

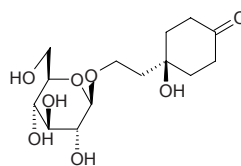
Halleridone; 3,3α,7,7α-Tetrahydro-3α-hydroxy-6(2H)-benzofuranone [$93675-87-7$] $C_8H_{10}O_3$ (154.17). Source: LIAN QIAO *Forsythia suspensa*, LING MU *Eurya japonica*, TONG LUO HAN *Milingtonia hortensis*. Ref: 660.

**18616 Rengyoside A**

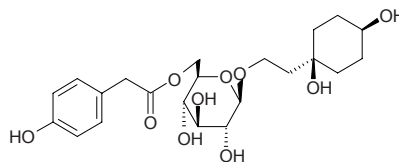
$C_{14}H_{26}O_8$ (322.36). Source: LIAN QIAO *Forsythia suspensa*, TONG LUO HAN *Milingtonia hortensis*. Ref: 660.

**18617 Rengyoside B**

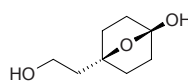
$C_{14}H_{24}O_8$ (320.34). Source: LIAN QIAO *Forsythia suspensa*, TONG LUO HAN *Milingtonia hortensis*. Ref: 660.

**18618 Rengyoside C**

$C_{22}H_{32}O_{10}$ (456.49). Source: LIAN QIAO *Forsythia suspensa*. Ref: 660.

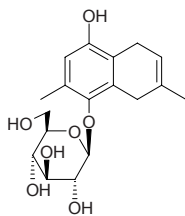
**18619 Rengyoxide**

$C_8H_{14}O_3$ (158.20). Source: LIAN QIAO *Forsythia suspensa*. Ref: 660.

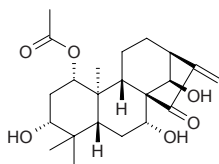


18620 Renifolin

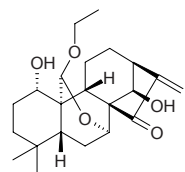
[36314-24-6] C₁₈H₂₄O₇ (352.39). mp 236~238°C (dec). Source: LU XIAN CAO *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], YUAN YE LU TI CAO *Pyrola rotundifolia*. Ref: 6, 660.

**18621 Reniformin B**

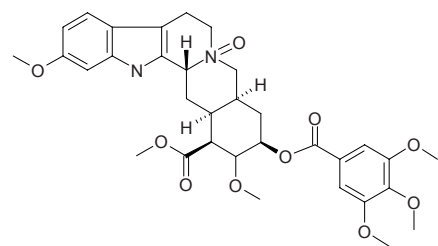
C₂₂H₃₂O₆ (392.50). mp 275~277°C, [α]_D²⁰ = -37.13° (c = 0.1, EtOH). Source: SHEN XING XIANG CHA CAI *Isodon latifolia* var. *reniformis*. Ref: 4067.

**18622 Reniformin C**

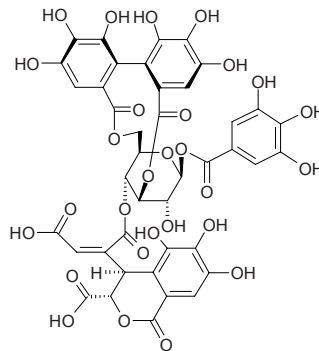
C₂₂H₃₂O₅ (376.50). mp 186.5~187.5°C, [α]_D²⁰ = -33.80° (c = 0.1, EtOH). Source: SHEN XING XIANG CHA CAI *Isodon latifolia* var. *reniformis*. Ref: 4067.

**18623 Renoxidine**

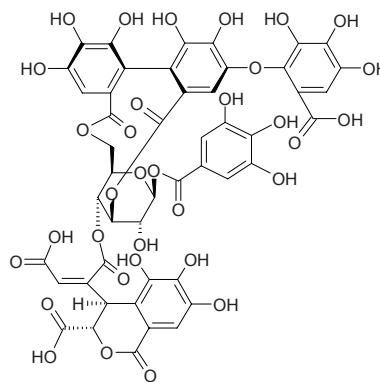
C₃₃H₄₀N₂O₉ (608.69). Pharm: Antiadrenergic; anticonvulsant; antineoplastic; sedative; antihypertensive. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, DA YE LUO FU MU *Rauwolfia macrophylla*, MAN CHANG CHUN HUA *Vinca minor*, SHU JI GU CHANG SHAN *Alstonia constricta*, YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 660, 1521.

**18624 Repandusinic acid A**

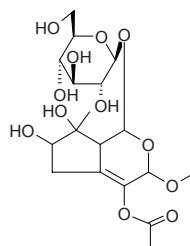
[125516-10-1] C₄₁H₃₀O₂₈ (970.68). Brown amorphous powder, [α]_D¹³ = -54.3° (c = 0.9, methanol). Pharm: Topoisomerase II inhibitor (IC₁₀₀ = 0.5 μmol/L); HIV reverse transcriptase inhibitor (IC₅₀ = 0.1 μg/mL); low toxin (mus, orl, 100mg/kg, no dying). Source: LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*], SHI YAN FENG *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], ZHU ZI CAO *Phyllanthus niruri*. Ref: 660, 900.

**18625 Repandusinic acid B**

C₄₈H₃₄O₃₃ (1138.79). Source: SHI YAN FENG *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*]. Ref: 660.

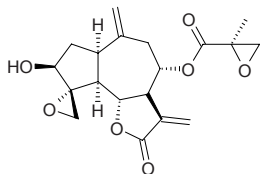
**18626 Reponside**

C₁₈H₂₈O₁₂ (436.42). Source: JIA LIAN QIAO *Duranta repens*. Ref: 660.

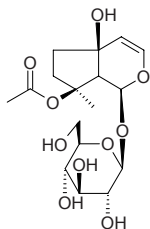


18627 Repin

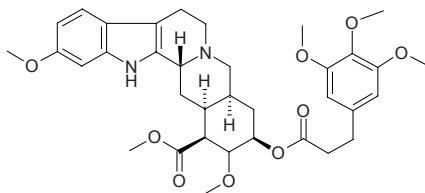
[11024-67-2] C₁₉H₂₂O₇ (362.37). Amorphous powder, $[\alpha]_D^{25} = +54^\circ$ ($c = 0.9$, chloroform). **Pharm:** Antiprotozoal (amebic and *Trichomonas vaginalis*, 0.24–7.80 μg/mL). **Source:** DING YU JU *Acroptilon repens*. **Ref:** 661.

**18628 Reptoside**

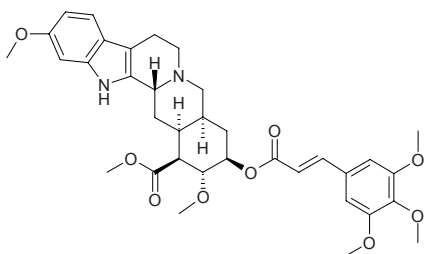
C₁₇H₂₆O₁₀ (390.39). **Source:** DU ZHONG *Eucommia ulmoides*, DU ZHONG YE *Eucommia ulmoides*, LONG TU ZHU *Clerodendrum thomsonae*, PU FU JIN GU CAO *Ajuga reptans*. **Ref:** 660.

**18629 Rescinnamidine**

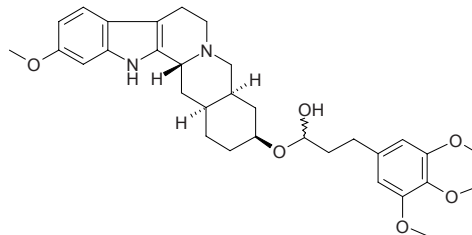
C₃₅H₄₄N₂O₉ (636.75). **Source:** YIN DU LUO FU MU *Rauwolfia serpentina*. **Ref:** 660, 1521.

**18630 Rescinnamine**

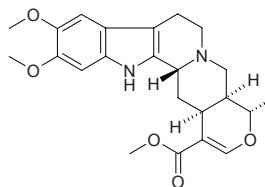
[84-34-4] C₃₅H₄₂N₂O₉ (634.74). Tiny acicular crystals (benzene), mp 238–239°C (vacuum), $[\alpha]_D^{24} = -97^\circ$ ($c = 1$, chloroform). **Pharm:** Antihypertensive; sedative. **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*, DAYE LUO FU MU *Rauwolfia macrophylla*, GUANG LIANG LUO FU MU *Rauwolfia nitida*, YIN DU LUO FU MU *Rauwolfia serpentina*. **Ref:** 661.

**18631 Rescinnaminol**

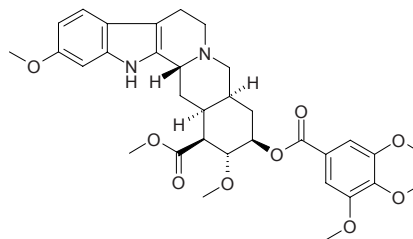
C₃₂H₄₂N₂O₆ (550.70). **Source:** YIN DU LUO FU MU *Rauwolfia serpentina*. **Ref:** 660, 1521.

**18632 Reserpiline**

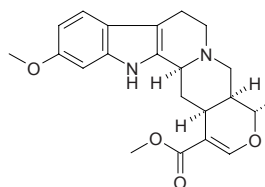
[131-02-2] C₂₃H₂₈N₂O₅ (412.47). Amorphous powder, $[\alpha]_D^{20} = -38^\circ$ (ethanol), ~ -14 ($c = 1.5$, pyridine), ~ -12 ($c = 1.7$, chloroform). **Pharm:** Antihypertensive. **Source:** YIN DU LUO FU MU *Rauwolfia serpentina*, GUANG LIANG LUO FU MU *Rauwolfia nitida*. **Ref:** 658.

**18633 Reserpine**

Serpasil; Serpax; Alserin [50-55-5] C₃₃H₄₀N₂O₉ (608.69). Prismatic crystals, mp 264–265°C (dec), $[\alpha]_D^{22} = -118^\circ$ (CHCl₃), easily soluble in CHCl₃, soluble in benzene, acetic ester, slightly soluble in ethanol, insoluble in water.^[5507] **Pharm:** Antihypertensive (effective component in total alkaloids of Common Devilpepper, *Rauwolfia verticillata*, LUO FU MU); sedative. **Source:** CUI TU LUO FU MU *Rauwolfia vomitoria*, DIAN JI GU CHANG SHAN *Alstonia yunnanensis*, KUO YE LUO FU MU *Rauwolfia latifrons*, LUO FU MU *Rauwolfia verticillata*, PI LI LUO FU MU *Rauwolfia perakensis*, YIN DU LUO FU MU *Rauwolfia serpentina* (isolated from the plant firstly in 1952^[5507]), YUN NAN LUO FU MU *Rauwolfia yunnanensis*. **Ref:** 5, 6, 658, 660, 5507.

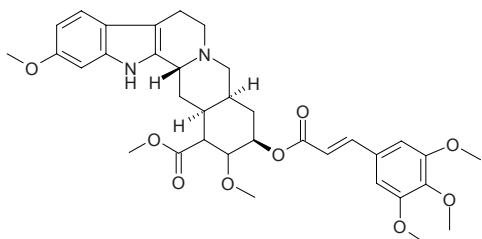
**18634 Reserpiline 1**

Pubescine C₂₂H₂₆N₂O₄ (382.46). **Source:** DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], LUO FU MU *Rauwolfia verticillata*, YIN DU LUO FU MU *Rauwolfia serpentina*. **Ref:** 660, 1521.

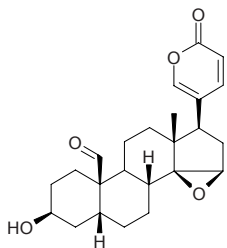


18635 Reserpinine 2

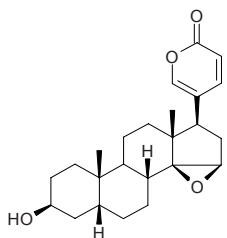
Anaprel C₃₅H₄₂N₂O₉ (634.73). Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, DA YE LUO FU MU *Rauwolfia macrophylla*, KA FU LA LUO FU MU *Rauwolfia caffra*, KE MING XI LUO FU MU *Rauwolfia cumminsii*, *Rauwolfia oreogiton*, *Rauwolfia volkensii*. Ref: 660, 1521.

**18636 Resibufagin**

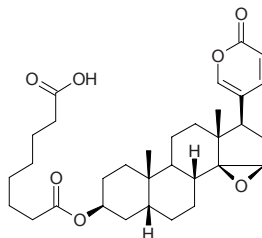
[20987-24-0] C₂₄H₃₀O₅ (398.50). mp 210~212°C. Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 6.

**18637 Resibufogenin**

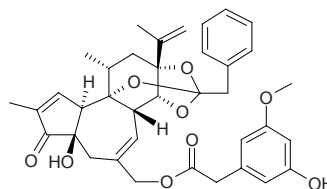
Bufogenin [465-39-4] C₂₄H₃₂O₄ (384.52). mp 113~140°C, 155~168°C. Pharm: Cardiotoxic; increases blood pressure; respiratory stimulant; used in treatment of heart failure and breathing inhibition; cytotoxic (*in vitro*, KB, IC₅₀ = 1.3 μg/mL; HL-60, IC₅₀ = 0.5 μg/mL; MH-60, IC₅₀ = 10 μg/mL)^[3082]; cytotoxic (*in vitro*, KB, IC₅₀ = 1.34 μg/mL; MH-60, IC₅₀ = 10.48 μg/mL)^[4634]. Source: CHAN PI *Bufo bufo gargarizans*; *Bufo melanostictus*, CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.51%^[5508]); *Bufo melanostictus* (dried secretion: content = 0.05%^[5508]), CHAN CHU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2, 6, 617, 658, 3082, 4634, 5508.

**18638 Resibufogenin 3-hydrogen suberate**

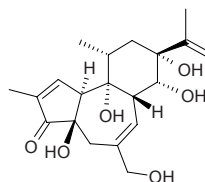
C₃₂H₄₄O₇ (540.70). Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 2.

**18639 Resiniferatoxin**

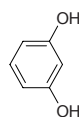
[57444-62-9] C₃₇H₄₀O₉ (628.73). Pharm: Irritant (to skin). Source: SHU ZHI DA JI *Euphorbia resinifera*, PO SEN DA JI *Euphorbia poissonii*. Ref: 658.

**18640 Resiniferonol**

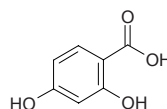
[57444-60-7] C₂₀H₂₈O₆ (364.44). Pharm: Carcinogen assistant (ester derivatives); Irritant (to skin, ester derivatives). Source: SHU ZHI DA JI *Euphorbia resinifera*. Ref: 658.

**18641 Resorcinol**

[108-46-3] C₆H₆O₂ (110.11). Source: GANG SONG *Pinus rigida*. Ref: 658.

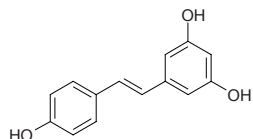
**18642 β-Resorcylic acid**

[89-86-1] C₇H₆O₄ (154.12). mp 218~219°C. Source: CI HUI HUA *Robinia pseudoacacia*. Ref: 6.

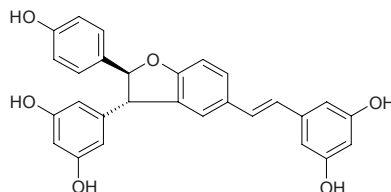


18643 Resveratrol

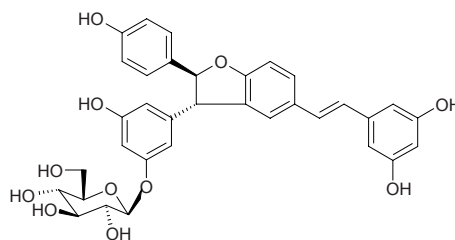
3,5,4'-Trihydroxystilbene [501-36-0] C₁₄H₁₂O₃ (228.25). Grey-white powder (methanol), mp 253~255°C (methanol), mp 261°C (diluted ethanol, dec), easily soluble in chloroform, ether, methanol, ethanol, acetone.^[507] **Pharm:** Cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; COX-2 inhibitor (IC₅₀ = 1.3 μmol/L)^[3869]; COX-1 inhibitor (IC₅₀ = 1.1 μmol/L)^[3869]; COX-1 inhibitor (IC₅₀ = 0.25 μg/mL)^[5030]; COX-2 inhibitor (IC₅₀ = 0.30 μg/mL)^[5030]; antibacterial; antifungal; antihypercholesterolemic (inhibits liver damage, glycoside); antioxidant (inhibits lipid peroxidation, rat mitochondria of hepatocyte, induced by ADP and NADPH); antioxidant (DPPH radical scavenger, IC₅₀ = 38.9 μmol/L, control Vitamin E, IC₅₀ = 20.7 μmol/L, control BHT, IC₅₀ = 12.6 μmol/L)^[3452]; antioxidant (superoxide anion scavenger, IC₅₀ = 51.1 μmol/L, control Vitamin E, 100 μmol/L, InRt < 50%, control BHT, IC₅₀ = 24.6 μmol/L)^[3452]; antioxidant (lipid peroxidation inhibitor, IC₅₀ = 3.3 μmol/L, control Vitamin E, IC₅₀ = 5.3 μmol/L, control BHT, IC₅₀ = 1.0 μmol/L)^[3452]; antioxidant (superoxide anion scavenger, 100 μmol/L, InRt = (50.5 ± 1.7)%, positive control (+)-Catechin, IC₅₀ = (3.67 ± 0.14) μmol/L)^[4514]; anti-inflammatory (modulator of cytokine network: blocks TNF-α-induced cell-cell adhesion between HUVECs and THP-1 cells)^[4416]; anti-inflammatory (COX-1/COX-2 inhibitor; prostanoid inhibitor via LOX pathway; K562 cells apoptosis via inhibition of both LOX and COX activity; causes a pronounced reduction in the *c-fos* and TGF-β1 expression in mouse skin stimulated by phorbol myristate acetate (PMA); inhibits COX-2 transcription and activity associated with inhibition of AP-1-mediated gene expression in PMA-treated mammary epithelial cells, by inhibiting signal transduction through PKC)^[4415]; anti-inflammatory (NF-κB pathway)^[4415]; anti-inflammatory (cultured cells, suppresses iNOS expression and NO production, by down-regulation of NF-κB binding activity via blockade of IκBα degradation)^[4415]; phytoalexin^[4415]; antiallergic^[4415]; antioxidant^[4415]; anti-carcinogenic^[4415]; platelet aggregation inhibitor (2.5 μg/mL collagen-induced, IC₅₀ = (11.6 ± 2.1) μmol/L, *p* < 0.01; 6 μmol/L ADP-induced, IC₅₀ = (17.8 ± 3.3) μmol/L, *p* < 0.01)^[5094]; aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]. **Source:** BAI LI LU *Veratrum album* (in 1940, isolated from the plant^[5507]), CHI CHI JUE MING *Cassia dentata*, DA DA HE MIAN BAO GUO *Artocarpus dadah*, DUN YE CHE ZHOU CAO *Trifolium dubium*, FANG JI YE BA QIA *Smilax menispermoides*, GOU SHU *Broussonetia papyrifera*^[3090], HE SHOU WU *Polygonum multiflorum*, HU ZHANG *Polygonum cuspidatum* (root: content = 1.10%^[5501]), LUO HUA SHENG *Arachis hypogaea*, MAO CI JIN JI ER *Caragana tibetica* (stem), MAO MAI LIAO *Pleuropterus ciliinervis*, MAO YE LI LU *Veratrum grandiflorum* (root), PU⁽²⁾ TAO *Vitis vinifera*, QING MEI *Vatica rassak* (stem cortex), SA HA LIN YUN SHAN *Picea glehnii*, SHE PU TAO *Ampelopsis brevipedunculata*, TIAN SHAN DA HUANG *Rheum wittrockii*, WO SHI AN *Eucalyptus wandoo*, WU SU LI LI LU *Veratrum nigrum* var. *ussuriense*, XI BO LI YA HONG SONG *Pinus sibirica* (bark), XIAO YE MAI MA TENG *Gnetum parvifolium* [Syn. *Gnetum indicum*], YUN SHI *Caesalpinia decapetala* (leaf), ZHAO WA ZHE SHU *Cudrania javanensis*, *Vitis* spp., occurs in many plants. **Ref:** 193, 438, 552, 609, 658, 1521, 2233, 2234, 3090, 3452, 3869, 3950, 4186, 4415, 4416, 4456, 4514, 5030, 5038, 5094, 5501, 5507, 5508.

**18644 Resveratrol E-dehydromer**

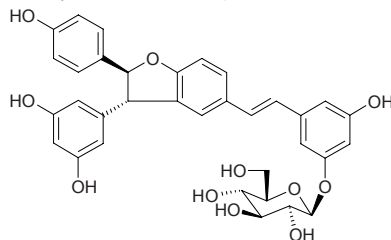
Anticancer Stilbenoid PMV70P691-144 C₂₈H₂₂O₆ (454.48). Oil, [α]_D²⁰ = -1.7° (*c* = 0.23, MeOH). **Pharm:** Anti-inflammatory (COX-1 inhibitor, IC₅₀ = 4.3 μmol/L; COX-2 inhibitor, IC₅₀ = 3.7 μmol/L)^[3033]; cytotoxic (cyclooxygenase-1 inhibitor)^[5038]; cytotoxic (cyclooxygenase-2 inhibitor)^[5038]. **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell cultures established from pulp fragments of young fruits: yield = 0.00048%fw). **Ref:** 3033, 5038.

**18645 Resveratrol (E)-dehydromer 11-O-β-D-glucopyranoside**

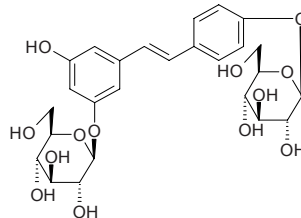
C₃₄H₃₂O₁₁ (616.63). Powder, [α]_D²⁰ = -18.9° (*c* = 0.38, MeOH). **Pharm:** Anti-inflammatory (COX-1 inhibitor, IC₅₀ = 5.2 μmol/L; COX-2 inhibitor, IC₅₀ = 7.5 μmol/L). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell cultures established from pulp fragments of young fruits: yield = 0.00056%fw). **Ref:** 3033.

**18646 Resveratrol (E)-dehydromer 11'-O-β-D-glucopyranoside**

C₃₄H₃₂O₁₁ (616.63). Powder, [α]_D²⁰ = -12.0° (*c* = 0.05, MeOH). **Source:** PU⁽²⁾ TAO *Vitis vinifera* (cell cultures established from pulp fragments of young fruits: yield = 0.00002%fw). **Ref:** 3033.

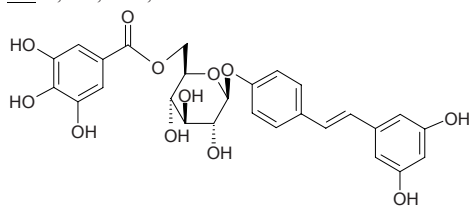
**18647 Resveratrol 3,4'-O,O'-di-β-D-glucopyranoside**

C₂₆H₃₂O₁₃ (552.54). Amorphous powder. [α]_D²¹ = -74.7° (*c* = 3.53, MeOH). **Source:** WEI JING BAI HE *Schoenocaulon officinale* (rhizome). **Ref:** 4210.

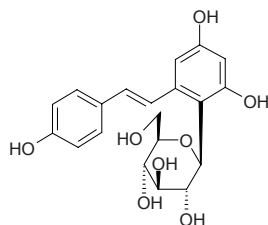


18648 Resveratrol-4'-O-(6"-O-galloyl)- β -D-glucopyranoside

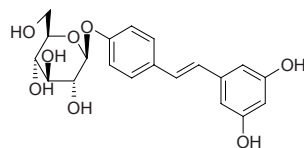
3,5,4'-Trihydroxystilbene-4'-(6"-galloyl)-glucoside $C_{27}H_{26}O_{12}$ (542.50).
Source: SI CHUAN CHAN DA HUANG *Rheum* sp.^[2969], TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*.
Ref: 2, 660, 2969, 4063.

**18649 Resveratrol-10-C- β -glucopyranoside**

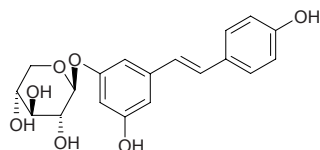
$C_{20}H_{22}O_8$ (390.39). White amorphous powder, $[\alpha]_D^{24} = +23^\circ$ ($c = 0.1$, MeOH).
Source: YOU YONG PO LEI *Hopea utilis* (stem wood). **Ref:** 3546.

**18650 Resveratrol-4'-O- β -D-glucoside**

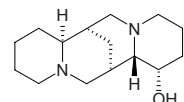
3,5,4'-Trihydroxystilbene-4'-glucoside; Resveratrolside $C_{20}H_{22}O_8$ (390.39).
Source: DA HUANG *Rheum officinale*, SI CHUAN CHAN DA HUANG *Rheum* sp.^[2969], TANG GU TE DA HUANG *Rheum tanguticum*, XI BO LI YA HONG SONG *Pinus sibirica*, ZHANG YE DA HUANG *Rheum palmatum*, *Rhizoma rhei*. **Ref:** 2, 660, 1521, 2969, 4063.

**18651 E-Resveratrol 3-O- β -D-xylopyranoside**

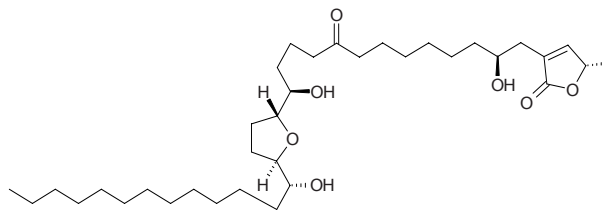
$C_{19}H_{20}O_7$ (360.37). White needles, mp 214~215°C; $[\alpha]_D^{20} = -12.2^\circ$ ($c = 0.02$, CH₃OH). **Pharm:** Vasodilator (rat aortic rings, inhibits Phenylephrine (Phe)-induced vasoconstriction in the presences of Indomethacin and N^o-L-nitroarginine (L-NA) at 10 μ mol/L Ach, 10 μ mol/L, relaxation = (57 \pm 7)%, control Sodium nitroprusside, relaxation = (109 \pm 5)%)^[4086].
Source: YI HUA *Lysidice rhodostegia* (root). **Ref:** 4086.

**18652 Retamine**

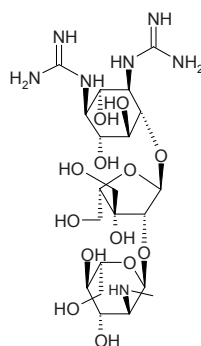
[2122-29-4] $C_{15}H_{26}N_2O$ (250.39). **Pharm:** Uterine stimulant; diuretic; antihypertensive. **Source:** family Fabaceae spp. **Ref:** 658.

**18653 Reticulacinone**

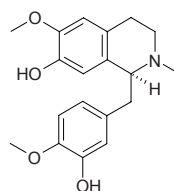
$C_{35}H_{62}O_7$ (594.88). Yellowish wax solid, mp 68~70°C. **Source:** NIU XIN FAN LI ZHI *Annona reticulata*. **Ref:** 432.

**18654 Reticulin**

[6835-00-3] $C_{21}H_{39}N_7O_{13}$ (599.60). mp 200°C (dec). **Source:** YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*], YA PIAN *Papaver somniferum*. **Ref:** 6.

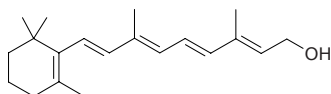
**18655 Reticuline**

Laudanosoline 4',6-dimethyl ethe [485-19-8] $C_{19}H_{23}NO_4$ (329.40). Yellowish powder, mp 146°C, $[\alpha]_D^{16} = +98.4^\circ$ ($c = 0.77$, ethanol). **Pharm:** Platelet aggregation inhibitor (due to ADP and arachidonic acid); uterine relaxant; neuromuscular blocker (frog, MIC = 100 μ g/mL); promotes hair growth. **Source:** FAN LI ZHI *Annona squamosa*, HE BAO MU DAN GEN *Dicentra spectabilis*, HENG ZHOU WU YAO *Cocculus laurifolius*, HONG NAN PI *Machilus thunbergii*, MA WEI LIAN *Thalictrum foliolosum*, NIU XIN FAN LI ZHI *Annona reticulata*, YING SU *Papaver somniferum*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem and leaf)^[3083], YUAN HUA FAN LI ZHI *Annona glabra*, ZHANG MU *Cinnamomum camphora*, ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6, 658, 660, 900, 3083.

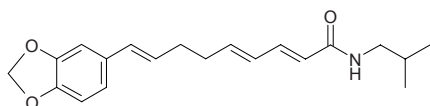


18656 Retinol

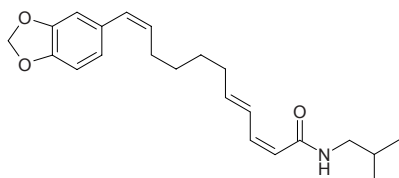
Vitamin A; Afaxin; Oleovitamin A [68-26-8] C₂₀H₃₀O (286.46). **Pharm:** Essential for growth, vision in dim light, and the maintenance of soft mucous tissue. **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], CU LIU GUO *Hippophae rhamnoides*, DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], DANG GUI *Angelica sinensis*, JI GUAN ZI *Celosia cristata* (seed), LU RONG *Cervus nippon*; *Cervus elaphus*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], YE GU *Aeginetia indica*. **Ref:** 2, 658, 660, 1521.

**18657 Retrofractamide A**

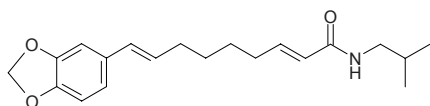
Piperamide B 9: 3(2*E*,4*E*,8*E*) C₂₀H₂₅NO₃ (327.43). **Source:** CHANG GUO BI BA *Piper retrofractum*, HU JIAO *Piper nigrum*. **Ref:** 660.

**18658 Retrofractamide B**

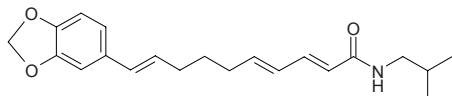
C₂₂H₂₉NO₃ (355.48). Colorless crystals. **Pharm:** Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (39.9±13.3)mm, control, length = (118.6±16.2)mm, InRt = 66.4%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (36.4±12.8)mm, control, length = (89.5±9.8)mm, InRt = 59.3%). **Source:** *Piper chaba* (fruit). **Ref:** 4935.

**18659 Retrofractamide C**

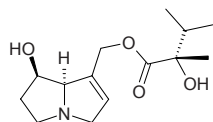
C₂₀H₂₇NO₃ (329.44). **Source:** CHANG GUO BI BA *Piper retrofractum*. **Ref:** 660.

**18660 Retrofractamide D**

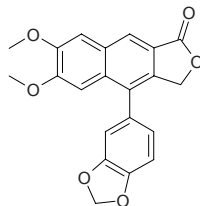
C₂₁H₂₇NO₃ (341.45). **Source:** CHANG GUO BI BA *Piper retrofractum*. **Ref:** 660.

**18661 Retrohoustine**

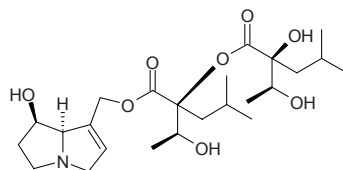
O⁹-(2*S*-2β-Hydroxy-2,3-dimethyl-butanoyl) C₁₄H₂₃NO₄ (269.34). **Source:** XIONG ER CAO *Ageratum houstonianum* (aerial parts). **Ref:** 5173.

**18662 Retrojusticidin B**

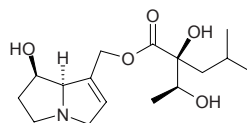
C₂₁H₁₆O₆ (364.36). **Pharm:** Anti-HIV (HIV-1 reverse transcriptase highly selective inhibitor, IC₅₀ = 5.5μmol/L, pharmacokinetic and Metabolic Studies in rats). **Source:** YIN DU SI LI LAN KA YE XIA ZHU *Phyllanthus myritifolius*. **Ref:** 4090.

**18663 Retronecine 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-2*S*-[(1'*S*-hydroxyethyl)-4-methylpentanoyl]-4-methylpentanoyl ester**

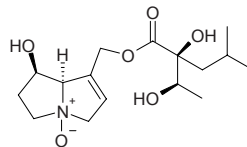
C₂₄H₄₁NO₈ (471.60). Red oil, [α]_D²⁵ = -4.0° (c = 0.1, MeOH). **Source:** CU MAO NIU SHE CAO *Anchusa strigosa*. **Ref:** 5441.

**18664 Retronecine 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester**

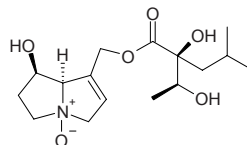
C₁₆H₂₇NO₅ (313.40). Yellow-orange oil, [α]_D²⁵ = +2.2° (c = 0.05, MeOH). **Source:** CU MAO NIU SHE CAO *Anchusa strigosa*. **Ref:** 5441.

**18665 Retronecine N-oxide 2*S*-hydroxy-2*S*-(1*R*-hydroxyethyl)-4-methylpentanoyl ester**

C₁₆H₂₇NO₆ (329.40). Red oil, [α]_D²⁵ = +2.3° (c = 0.1, MeOH). **Source:** CU MAO NIU SHE CAO *Anchusa strigosa*. **Ref:** 5441.

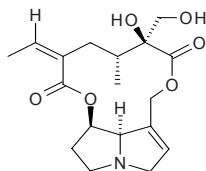
**18666 Retronecine N-oxide 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester**

Platynecine N-oxide 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methyl-pentanoyl ester C₁₆H₂₇NO₆ (329.40). Orange oil, [α]_D²⁵ = +4° (c = 0.05, MeOH); [α]_D²⁵ = +3.0° (c = 0.1, MeOH). **Source:** CU MAO NIU SHE CAO *Anchusa strigosa* (flower, leaf and root). **Ref:** 5298, 5441.

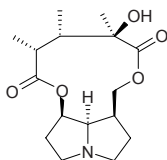


18667 Retrorsine

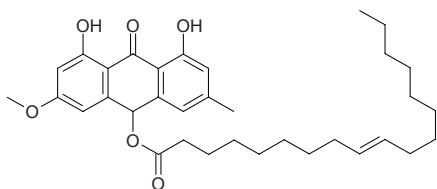
[480-54-6] $C_{18}H_{25}NO_6$ (351.40). mp 207~208°C, 216.0~216.5°C. **Pharm:** Mutagen (drosophila and Ames experiments); Toxic (hepatic and pulmonary toxicity). **Source:** DA BAI DING CAO *Senecio oryzetorum*, FEI LV BIN QIAN LI GUANG *Senecio phillicus*, GUANG E ZHU SHI DOU *Crotalaria usaramoensis*, OU ZHOU QIAN LI GUANG *Senecio vulgaris*, WAN QU QIAN LI GUANG *Senecio retrorsus*, YING ZHAO DOU ZHU SHI DOU *Crotalaria spartioides*. **Ref:** 6, 658.

**18668 Retusine**

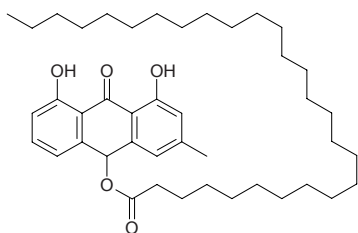
[480-86-4] $C_{16}H_{25}NO_5$ (311.38). mp 163~164°C. **Pharm:** Cytotoxic (KB, $ED_{50} = 41 \mu\text{g/mL}$); β -glucuronidase inhibitor (rbt, neutrocyte, $ED_{50} = 60 \mu\text{mol/L}$); Ca^{2+} -ATPase inhibitor (brawn reticulum, $100 \mu\text{mol/L}$, $\text{InRt} = 100\%$). **Source:** HUO XIANG *Agastache rugosus*. **Ref:** 505, 1767, 1768.

**18669 Revandchinone 1**

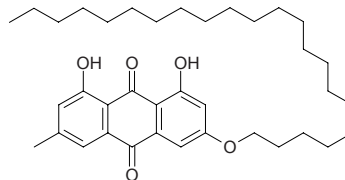
$C_{34}H_{46}O_6$ (550.74). Yellow needles (EtOAc), mp 214°C. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*]. **Ref:** 2061.

**18670 Revandchinone 2**

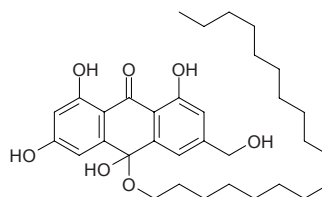
$C_{43}H_{66}O_5$ (663.00). Orange yellow needles (EtOAc), mp 201°C. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*]. **Ref:** 2061.

**18671 Revandchinone 3**

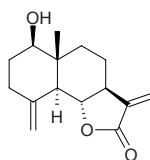
$C_{37}H_{54}O_5$ (578.84). Yellow needles (EtOAc), mp 220 °C. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*]. **Ref:** 2061.

**18672 Revandchinone 4**

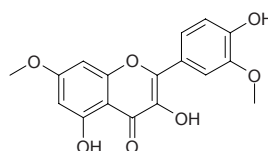
$C_{33}H_{48}O_7$ (556.75). yellow needles (EtOAc), mp 235 °C. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*]. **Ref:** 2061.

**18673 Reynosin**

[28254-53-7] $C_{15}H_{20}O_3$ (248.32). Colorless acicular crystals, mp 145~146°C. **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits formation of CINC-1, concentration-dependent manner, in NRK-52E rat kidney epithelial cells stimulated with LPS, $IC_{50} = 1 \mu\text{mol/L}$; inhibits TNF- α production in LPS-activated RAW264.7 cells, $IC_{50} = 87.4 \mu\text{mol/L}$)^[4416]; cytotoxic (KB ATCC CCL17, $IC_{50} = 2.7 \mu\text{g/mL}$)^[5399]; cytotoxic (*in vitro*, HepG₂, $CD_{50} = 11 \mu\text{g/mL}$; HeLa, $CD_{50} = 7.5 \mu\text{g/mL}$; OVCAR-3, $CD_{50} = 7.5 \mu\text{g/mL}$; control Cisplatin, HepG₂, $CD_{50} = 2.8 \mu\text{g/mL}$; HeLa, $CD_{50} = 5.2 \mu\text{g/mL}$; OVCAR-3, $CD_{50} = 3 \mu\text{g/mL}$; without significant antibacterial effect)^[4720]. **Source:** MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0022%dw)^[4720], YUN NAN HAN XIAO *Michelia yunnanensis*, *Warionia saharae*. **Ref:** 426, 5399, 4416, 4720.

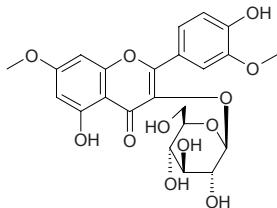
**18674 Rhamnazin**

[552-54-5] $C_{17}H_{14}O_7$ (330.30). mp 216~218°C. **Pharm:** Antioxidant inactive (DPPH radical scavenger, $10 \mu\text{mol/L}$, $\text{ScRt} = 8\%$; control BHT, $10 \mu\text{mol/L}$, $\text{ScRt} = 43\%$, $IC_{50} = 19.00 \mu\text{mol/L}$)^[4422]; antibacterial (*Staphylococcus aureus*, penicillin-sensitive strain ATCC 25923, $\text{MIC} > 128 \mu\text{g/mL}$; methicillin-resistant strain MRSA SK1, $\text{MIC} > 128 \mu\text{g/mL}$)^[4422]. **Source:** DUO SUI LIAO *Polygonum polystachyum*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 6, 4422.

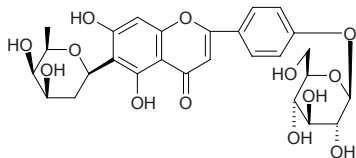


18675 Rhamnazin-3-O-β-D-glucoside

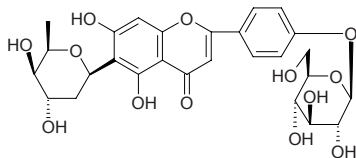
C₂₃H₂₄O₁₂ (492.44). **Source:** BING GUO HU JI SHENG *Viscum multinerve*, HU JI SHENG *Viscum coloratum*. **Ref:** 660.

**18676 Rhamnellaflavoside A**

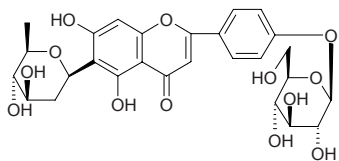
6-C-β-D-Oliopyranosyl-4'-O-β-D-glucopyranosylapigenin C₂₇H₃₀O₁₃ (562.53). Yellow amorphous powder, [α]_D²⁶ = +51.4° (c = 1.50, MeOH). **Source:** BU DUI CHENG MAO RU *Rhamnella inaequilatera* (leaf). **Ref:** 3770.

**18677 Rhamnellaflavoside B**

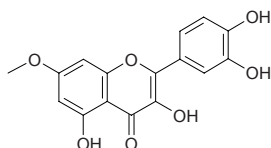
6-C-β-D-Boivinopyranosyl-4'-O-β-D-glucopyranosylapigenin C₂₇H₃₀O₁₃ (562.53). Yellow amorphous powder, [α]_D²⁶ = +4.1° (c = 0.50, MeOH). **Source:** BU DUI CHENG MAO RU *Rhamnella inaequilatera* (leaf). **Ref:** 3770.

**18678 Rhamnellaflavoside C**

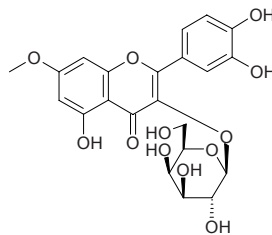
6-C-β-D-4-Epioliosyl-4'-O-β-D-glucopyranosylapigenin C₂₇H₃₀O₁₃ (562.53). Yellow amorphous powder, [α]_D²⁶ = +33.6° (c = 0.83, MeOH). **Source:** BU DUI CHENG MAO RU *Rhamnella inaequilatera* (leaf). **Ref:** 3770.

**18679 Rhamnetin**

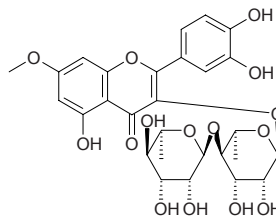
[90-19-7] C₁₆H₁₂O₇ (316.27). Yellow powdery crystals (MeOH), mp 288–290°C. **Pharm:** Allergenic (moderate activity); antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*); antineoplastic; cytotoxic; mutagen (*Salmonella aertrycke* TA98). **Source:** DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], FENG JIAO *Apis mellifera ligustica*, GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], HUANG HUA HAO *Artemisia annua*, XI YE TENG *Tetracera asiatica*. **Ref:** 2, 6, 463, 658, 660.

**18680 Rhamnetin-3-galactoside**

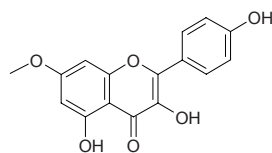
C₂₂H₂₂O₁₂ (478.41). **Source:** BIAN XU *Polygonum aviculare*. **Ref:** 660.

**18681 Rhamnetin-3-O-rhamnosyl (1→4)-rhamnopyranoside**

C₂₈H₃₂O₁₅ (608.56). **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 660.

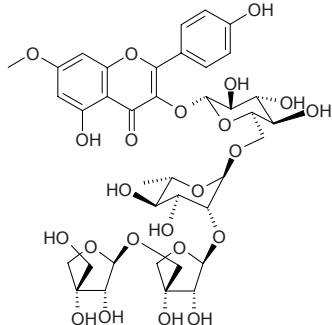
**18682 Rhamnocitrin**

Kaempferol-7-methylether [569-92-6] C₁₆H₁₂O₆ (300.27). Yellow amorphous powder, mp 225–227°C, mp 221–222°C. **Pharm:** Antioxidant (*in vitro*, PEP inhibitor, IC₅₀ = (32.64±0.84)μmol/L, control Bacitracin, IC₅₀ = (129.3±3.2)μmol/L)^[4923]; cytotoxic inactive (Lu1, 20μg/mL, control Ellipticine, ED₅₀ = 0.02μg/mL; Col2, 20μg/mL, control Ellipticine, ED₅₀ = 0.3μg/mL; KB, 20μg/mL, control Ellipticine, ED₅₀ = 0.04μg/mL; LN CaP, 20μg/mL, control Ellipticine, ED₅₀ = 0.8μg/mL; KB in absence of 1μg/mL vinblastine, 20μg/mL, control Ellipticine, ED₅₀ = 0.3μg/mL; KB in presence of 1μg/mL vinblastine, 20μg/mL, control Ellipticine, ED₅₀ = 0.2μg/mL; BC1, 20μg/mL, control Ellipticine, ED₅₀ = 0.5μg/mL)^[3479]. **Source:** GANG MAO CHENG LIU *Tamarix hispida* (aerial parts), HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, NING MENG AN YE *Eucalyptus citriodora*, SHE GAN *Belamcanda chinensis* (rhizome), TU SHA REN *Alpinia japonica*, XI YE TENG *Tetracera asiatica*, YIN CHEN HAO *Artemisia capillaris*, *Alomia myriadenia* (aerial parts). **Ref:** 2, 6, 372, 660, 3479, 4128, 4923.



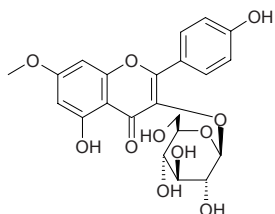
18683 Rhannocitrin 3-O-apiosyl(1→5)-apiosyl(1→2)-[α-L-rhamnopyranosyl(1→6)]-β-D-glucopyranoside

C₃₈H₄₈O₂₃ (872.79). Yellowish amorphous solid. Source: LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb; yield = 0.00086%dw). Ref: 4626.



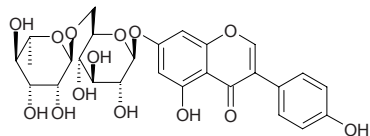
18684 Rhannocitrin-3-O-β-D-glucoside

C₂₂H₂₂O₁₁ (462.41). Source: BIAN JING HUANG QI *Astragalus complanatus*. Ref: 660.



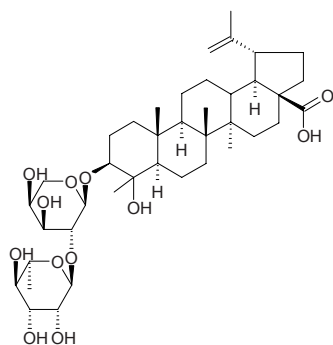
18685 7-O-α-Rhamno(1→6)-β-glucosylgenistein

C₂₇H₃₀O₁₄ (578.53). White amorphous powder, mp 216–219°C. Pharm: Anti-Inflammatory (inhibit brain liposomal peroxidation, 62.5μg/mL, optical density of DMSO control = (100.1±0.2)%; positive control Propyl gallate, 7.5μmol/mL, optical density of DMSO control = (20.6±0.2)%); granular release inhibitor. Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 4984.



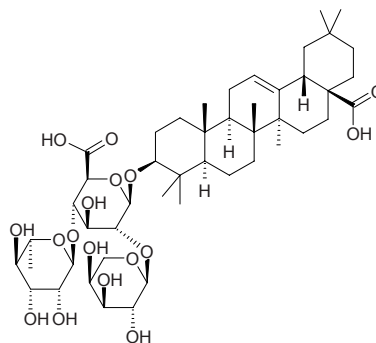
18686 3-O-α-L-Rhamnopyranosyl(1→2)-α-L-arabinopyranosyl-3β,23-dihydroxylup-20(29)-en-28-oic-acid

C₄₀H₆₄O₁₂ (736.95). Source: BAI TOU WENG *Pulsatilla chinensis*. Ref: 660.



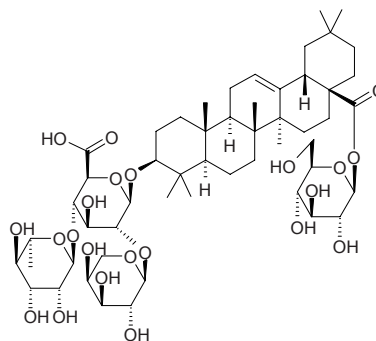
18687 3-O-α-L-Rhamnopyranosyl-(1→4)-[α-L-arabinopyranosyl-(1→2)]-β-D-glucuronopyranosyl oleanolic acid

C₄₇H₇₄O₁₇ (911.10). Amorphous powder, [α]_D²³ = -4.2° (c = 0.91, MeOH). Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.



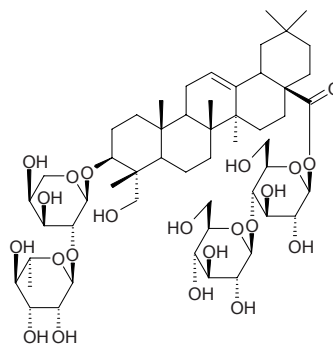
18688 3-O-α-L-Rhamnopyranosyl-(1→4)-[α-L-arabinopyranosyl-(1→2)]-β-D-glucuronopyranosyl oleanolic acid 28-O-β-D-glucopyranosyl ester

C₅₃H₈₄O₂₂ (1073.25). Amorphous powder, [α]_D²³ = -10.2° (c = 2.06, MeOH). Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.



18689 3β-O-(α-L-Rhamnopyranosyl(1→2)-α-L-arabinopyranosyl)-hederagenin-28-O-β-D-glucopyranosyl(1→4)-β-D-glucopyranosyl ester

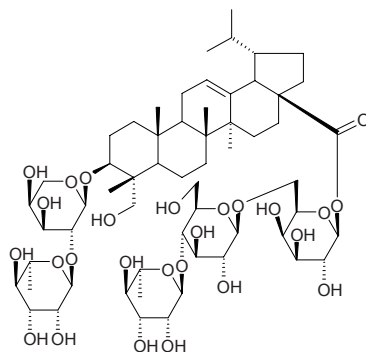
C₅₃H₈₆O₂₂ (1075.26). Source: YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). Ref: 5036.



18690 3 β -O-(α -Rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-23-hydroxylup-12-en-28-O-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl)ester

C₅₉H₉₆O₂₆ (1221.41). White amorphous powder, $[\alpha]_D^{25} = +93^\circ$ ($c = 1$, MeOH).

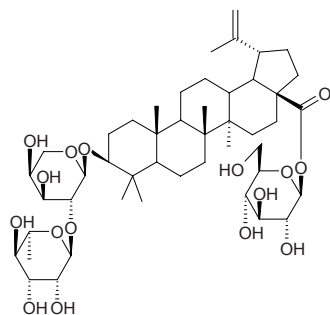
Pharm: Antiproliferative (*in vitro*, J774 cell line, IC₅₀ = 0.60 μ mol/L, control 6-Mercaptopurine, IC₅₀ = 0.003 μ mol/L; WEHI-164, IC₅₀ = 0.6 μ mol/L, 6-Mercaptopurine, IC₅₀ = 0.017 μ mol/L). **Source:** *Schefflera faguetai*. **Ref:** 5436.



18691 3 β -D-O-(α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-lup-20(29)-ene-28-O- β -D-glucopyranosyl ester

C₄₇H₇₆O₁₆ (897.12). White powder, $[\alpha]_D^{25} = +71^\circ$, ($c = 0.1$, MeOH). **Pharm:**

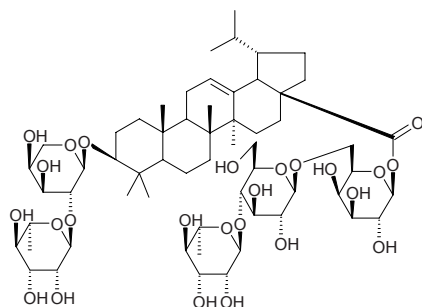
Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 0.32 μ mol/L; HEK-293 cell line, IC₅₀ = 0.44 μ mol/L; WEHI-164 cell line, IC₅₀ = 0.79 μ mol/L; control 6-Mercaptopurine, J774.A1 cell line, IC₅₀ = 0.003 μ mol/L; HEK-293 cell line, IC₅₀ = 0.007 μ mol/L; WEHI-164 cell line, IC₅₀ = 0.015 μ mol/L). **Source:** YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). **Ref:** 5036.



18692 3 β -O-(α -Rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-lup-12-en-28-O-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester

C₅₉H₉₆O₂₅ (1205.41). White amorphous powder, $[\alpha]_D^{25} = +86^\circ$ ($c = 1$, MeOH).

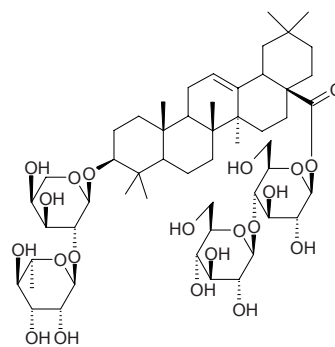
Pharm: Antiproliferative (*in vitro*, J774 cell line, IC₅₀ = 0.70 μ mol/L; control 6-Mercaptopurine, IC₅₀ = 0.003 μ mol/L) **Source:** *Schefflera faguetai*. **Ref:** 5436.



18693 3 β -D-O-(α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-olean-12-ene-28-O-(β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) ester

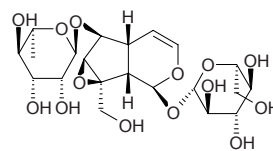
C₅₃H₈₆O₂₁ (1059.26). White powder, $[\alpha]_D^{25} = +37^\circ$, ($c = 1$, MeOH). **Pharm:**

Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 0.45 μ mol/L; HEK-293 cell line, IC₅₀ = 1.85 μ mol/L; WEHI-164 cell line, IC₅₀ = 0.67 μ mol/L; control 6-Mercaptopurine, J774.A1 cell line, IC₅₀ = 0.003 μ mol/L; HEK-293 cell line, IC₅₀ = 0.007 μ mol/L; WEHI-164 cell line, IC₅₀ = 0.015 μ mol/L). **Source:** YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). **Ref:** 5036.



18694 6-O- α -L-Rhamnopyranosylcatalpol

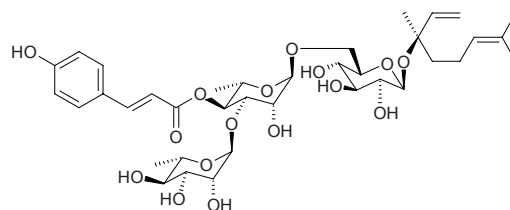
C₂₁H₃₂O₁₄ (508.48). **Source:** FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). **Ref:** 3954.



18695 (3S)-O- α -L-Rhamnopyranosyl-(1 \rightarrow 3)-[4-O-(E)-coumaroyl]- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-linalool

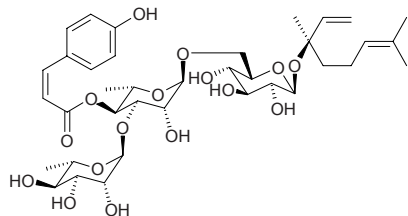
C₃₇H₅₄O₁₆ (754.83). White amorphous powder, mp 144–146°C, $[\alpha]_D^{25} =$

-31.8° ($c = 0.67$, MeOH). **Pharm:** Immunosuppressant inactive (hmm mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100 μ mol/L). **Source:** TAI WAN PI PA *Eriobotrya deflexa* (leaf). **Ref:** 3064.



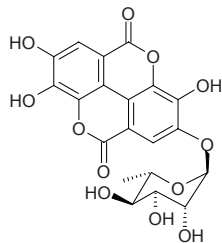
18696 (3S)-O- α -L-Rhamnopyranosyl-(1 \rightarrow 3)-[4-O-(Z)-coumaroyl]- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-linalool

C₃₇H₅₄O₁₆ (754.83). White amorphous powder, mp 136–137°C, $[\alpha]_D^{25} = -87.4^\circ$ ($c = 0.39$, MeOH). **Pharm:** Immunosuppressant inactive (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, 100 μ mol/L). **Source:** TAI WAN PI PA *Eriobotrya deflexa* (leaf). **Ref:** 3064.



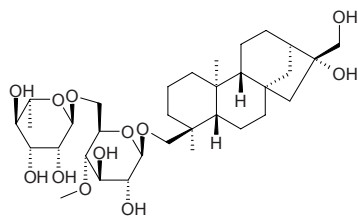
18697 4-(α -Rhamnopyranosyl)ellagic acid

C₂₀H₁₆O₁₂ (448.34). **Pharm:** Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 62 μ g/mL; P₃₈₈/ADM, IC₅₀ = 53 μ g/mL; K562, IC₅₀ = 82 μ g/mL; K562/ADM, IC₅₀ = 67 μ g/mL; B16, IC₅₀ = 88 μ g/mL; HeLa, IC₅₀ = 86.5 μ g/mL; KB, IC₅₀ = 98 μ g/mL; HIV-1 protease inhibitor (IC₅₀ = 4.8 μ g/mL). **Source:** YUN NAN FENG CHE ZI *Combretum yunnanensis* (branch) **Ref:** 4693.



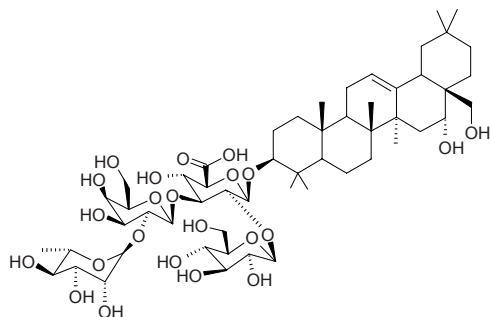
18698 6'-O- α -L-Rhamnopyranosyl-4-epimicrolepin

C₃₃H₅₆O₁₂ (644.81). **Source:** BIAN YUAN LIN GAI JUE *Microlepia marginata*. **Ref:** 660.



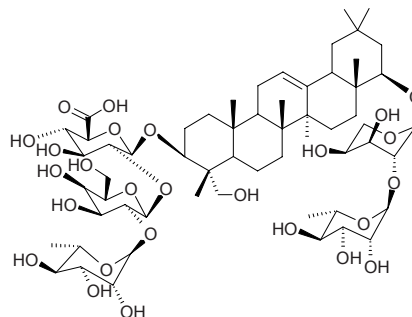
18699 3-O-{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-primulagenin A

C₅₄H₈₈O₂₃ (1105.29). **Source:** RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.0021%fw). **Ref:** 4730.



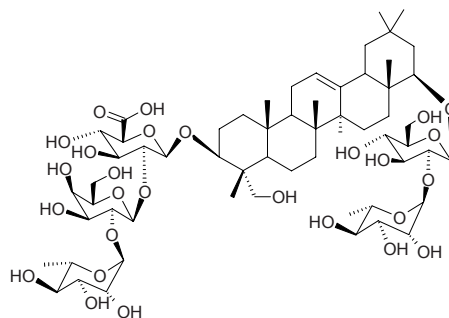
18700 3-O-{{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-22-O-{{ α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl]-3 β ,22 β ,24-trihydroxyolean-12-ene

C₅₉H₉₆O₂₆ (1221.41). White amorphous powder, $[\alpha]_D^{25} = -14.20^\circ$ ($c = 0.50$, MeOH). **Pharm:** Cytotoxic (*in vitro*, Hs740T, ED₅₀ = 3.53 μ g/mL; Hs756T, ED₅₀ = 2.47 μ g/mL; Hs578T, ED₅₀ = 2.39 μ g/mL; Hs742T, ED₅₀ = 17.51 μ g/mL; DU145, ED₅₀ = 3.12 μ g/mL; LNCaP-FGC, ED₅₀ = 27.5 μ g/mL). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0039%dw). **Ref:** 4630.



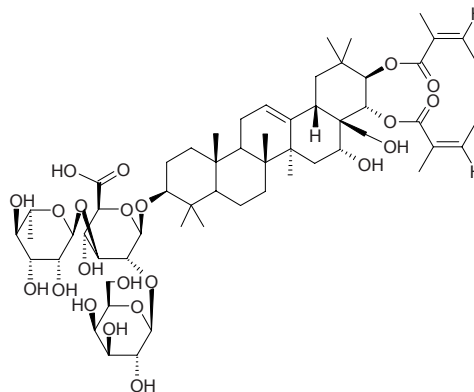
18701 3-O-{{ α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-22-O-{{ α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-3 β ,22 β ,24-trihydroxyolean-12-ene

C₆₀H₉₈O₂₇ (1251.43). White amorphous powder, $[\alpha]_D^{25} = -23.00^\circ$ ($c = 0.53$, MeOH). **Pharm:** Cytotoxic (*in vitro*, Hs740T, ED₅₀ = 4.1 μ g/mL; Hs756T, ED₅₀ = 3.94 μ g/mL; Hs578T, ED₅₀ = 2.12 μ g/mL; Hs742T, ED₅₀ = 14.63 μ g/mL; DU145, ED₅₀ = 3.25 μ g/mL; LNCaP-FGC, ED₅₀ = 24.1 μ g/mL). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0051%dw). **Ref:** 4630.

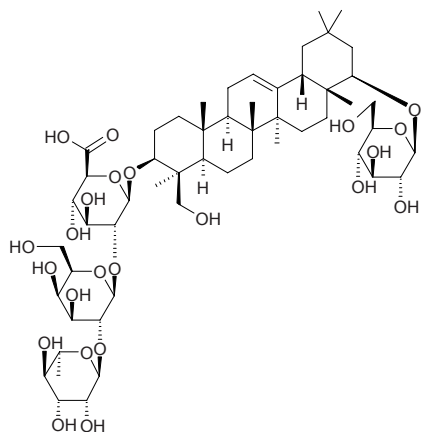


18702 3-O- α -L-Rhamnopyranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β ,22 α -di-O-angeloylbarringtonol C

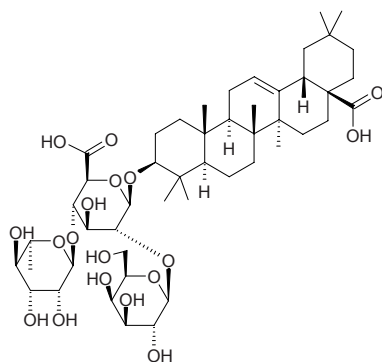
C₅₈H₉₀O₂₂ (1139.35). $[\alpha]_D^{21} = -10.0^\circ$ ($c = 0.66$, MeOH). **Pharm:** Hemolytic. **Source:** NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem cortex). **Ref:** 5269.



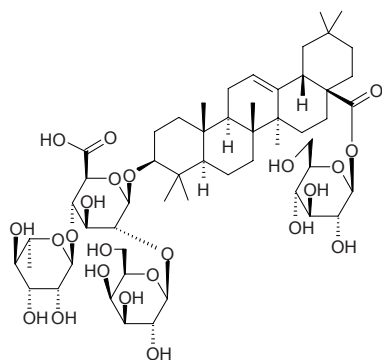
18703 3-*O*-[α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-22-*O*- β -*D*-glucopyranosylsoyasapogenol B
[142449-92-1] C₅₄H₈₈O₂₃ (1105.29). White needles, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.4$, MeOH). Source: *Trifolium resupinatum*. Ref: 2339.



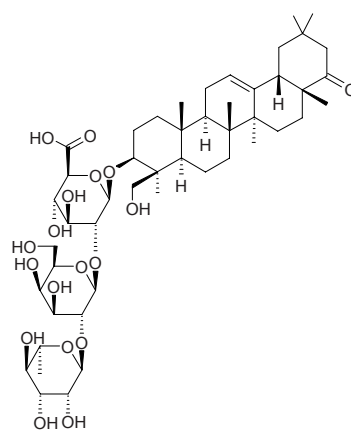
18704 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl oleanolic acid
C₄₈H₇₆O₁₈ (941.13). Amorphous powder, $[\alpha]_D^{23} = -10.4^\circ$ ($c = 1.95$, MeOH). Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.



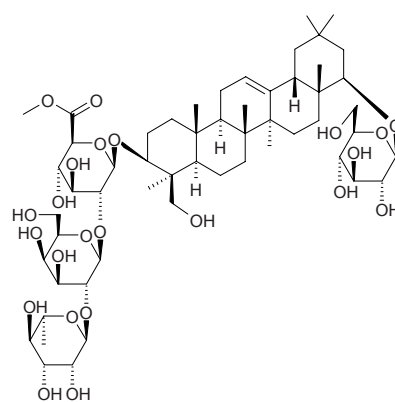
18705 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl oleanolic acid 28-*O*- β -*D*-Glucopyranosylester
C₅₄H₈₆O₂₃ (1103.27). Amorphous powder, $[\alpha]_D^{23} = -12.1^\circ$ ($c = 1.28$, MeOH). Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.



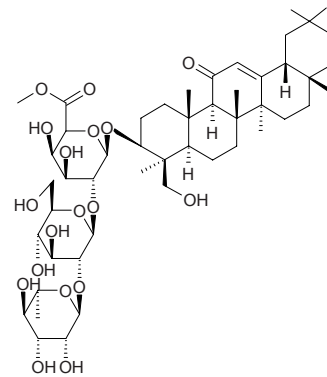
18706 3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-galactopyranosyl (1 \rightarrow 2)- β -*D*-glucuronopyranosyl] soyasapogenol E
C₄₈H₇₆O₁₈ (941.13). Source: GUANG JIN QIAN CAO *Desmodium styracifolium*. Ref: 660.



18707 3-*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-galactopyranosyl (1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-soyasapogenol B-22-*O*- β -*D*-glucopyranoside
C₅₅H₉₀O₂₃ (1119.32). Source: BIAN JING HUANG QI *Astragalus complanatus*. Ref: 660.

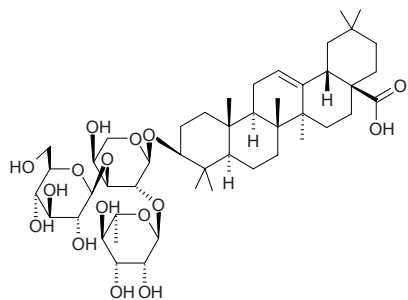


18708 3-*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-galactopyranosyl (1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-3 β ,22 β ,24-trihydroxy-11-oxo-olean-12-ene
C₄₉H₇₈O₁₈ (955.16). Source: BIAN JING HUANG QI *Astragalus complanatus*. Ref: 660.



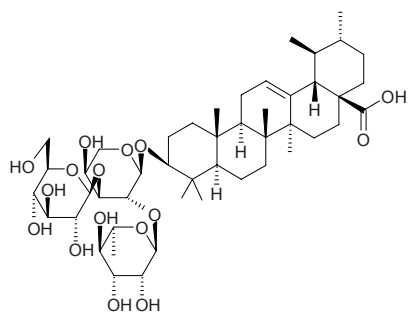
18709 3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)]-[β -*D*-glucopyranosyl (1 \rightarrow 3)]- α -*L*-arabinopyranosyl oleanolic acid

Patrinia-glycoside B-II C₄₇H₇₆O₁₆ (897.12). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 660.



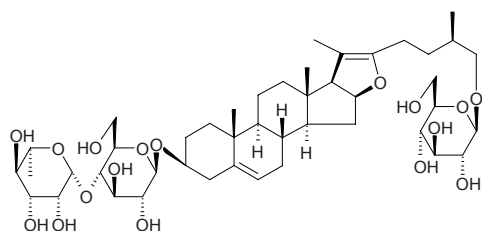
18710 3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)]-[β -*D*-glucopyranosyl (1 \rightarrow 3)]- α -*L*-arabinopyranosyl ursolic acid

C₄₇H₇₆O₁₆ (897.12). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 660.



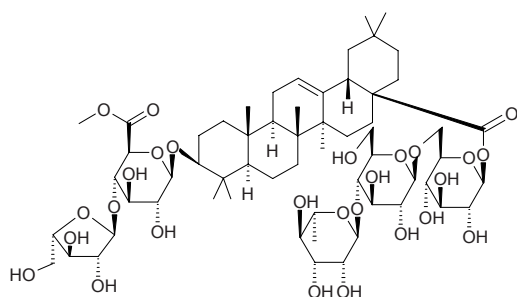
18711 3-*O*-[α -*L*-Rhamnopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl]-26-*O*-[β -*D*-glucopyranosyl)-(25*R*)-furosta-5,20-dien-3 β , 26-diol

C₄₅H₇₂O₁₇ (885.07). Source: TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*]. Ref: 660.



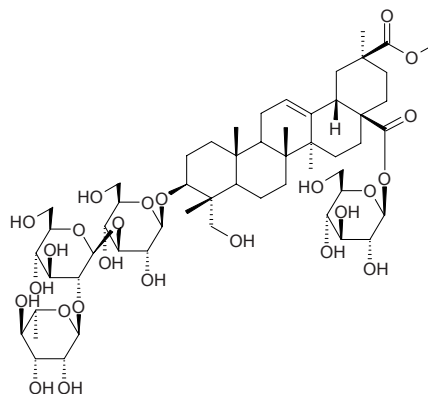
18712 α -*L*-Rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl-oleanate-3- α -*L*-arabinofuranosyl(1 \rightarrow 4)-methyl- β -*D*-glucuronopyranosideuronate

C₆₀H₉₆O₂₇ (1249.42). Source: TONG HUA GEN *Tetrapanax papyriferus*. Ref: 660.



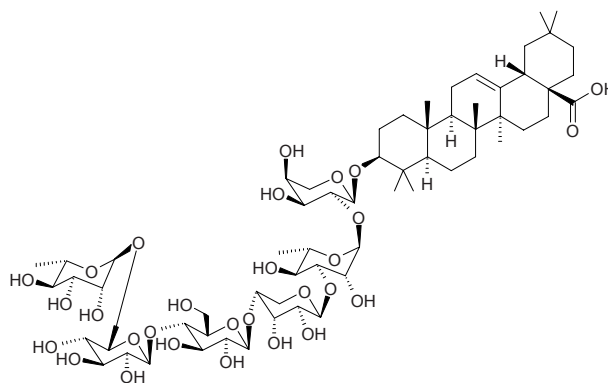
18713 3-*O*-[α -*L*-Rhamnopyranosyl(1 \rightarrow 2)]- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl] phytolaccagenic acid 28-*O*- β -*D*-glucopyranosyl ester

C₅₅H₈₈O₂₅ (1149.30). mp 227~230°C, [α]_D²⁵ = +5.3° (*c* = 0.7, MeOH). Source: CANG BAI CHENG GOU FENG *Diploclisia glaucescens*. Ref: 2054.



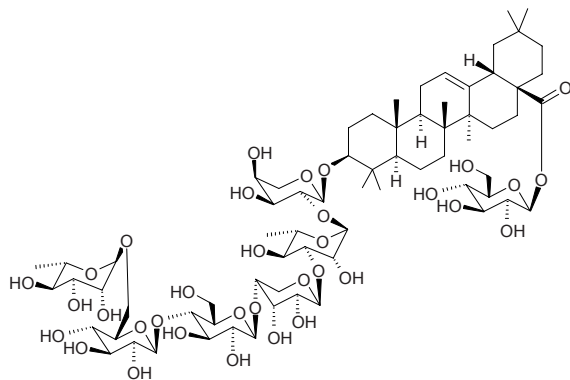
18714 3 β -[(*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)-*O*- β -*D*-ribosepyranosyl(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-*oic* acid

C₆₄H₁₀₄O₂₉ (1337.53). Amorphous solid, [α]_D²⁵ = -82.0° (*c* = 0.25, MeOH). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 2.8 μ mol/L; BSY1, IC₅₀ = 5.9 μ mol/L; U251, IC₅₀ = 6.3 μ mol/L; SF295 IC₅₀ = 6 μ mol/L; PC3, IC₅₀ = 6 μ mol/L; NCI-H460, IC₅₀ = 40 μ mol/L; OVCAR-3, IC₅₀ = 47 μ mol/L; OVCAR-8, IC₅₀ = 71 μ mol/L; stomach MKN28, IC₅₀ = 30 μ mol/L; no significant differential cellular sensitivities when it was evaluated in the Japanese Foundation for Cancer Research 39 cell line assay). Source: WEI LING XIAN *Clematis chinensis* (root: yield = 0.0087%). Ref: 4763.



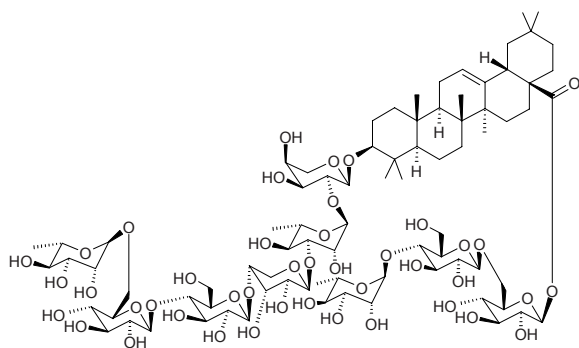
18715 3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-ribofuranosyl-(1 \rightarrow 3)-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)oxy]olean-12-en-28-oic acid β -D-glucopyranosyl ester

C₇₀H₁₁₄O₃₄ (1499.67). Amorphous solid, $[\alpha]_D^{25} = -70.0^\circ$ ($c = 0.25$, MeOH). Source: WEI LING XIAN *Clematis chinensis* (root; yield = 0.00042%). Ref: 4763.



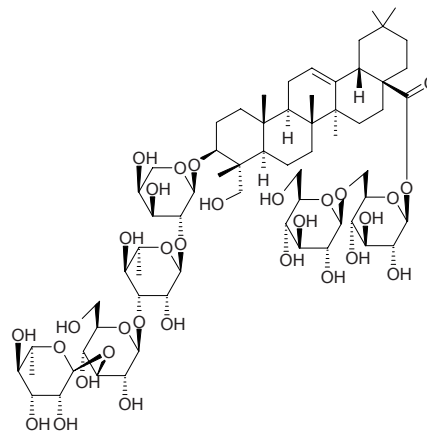
18716 3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-ribofuranosyl-(1 \rightarrow 3)-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester

C₈₂H₁₃₄O₄₃ (1807.96). Amorphous solid, $[\alpha]_D^{25} = -94.0^\circ$ ($c = 0.25$, MeOH). Pharm: Cytotoxic inactive (*in vitro*, HL-60, 20 μ mol/L; but it can be converted to the cytotoxic saponin 1 (3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-ribofuranosyl-(1 \rightarrow 3)-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)oxy]olean-12-en-28-oic acid) by cleavage of the C-28 triglycosyl ester linkage and is concluded to have a cytotoxic potentiality). Source: WEI LING XIAN *Clematis chinensis* (root; yield = 0.11%). Ref: 4763.



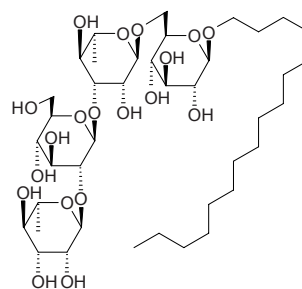
18717 3-*O*-2-L-Rhamnopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl hederagenin 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester

C₆₅H₁₀₆O₃₁ (1385.55). White powder, mp 220–224°C, $[\alpha]_D^{19} = -27.6^\circ$ ($c = 0.2$, methanol). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 211.



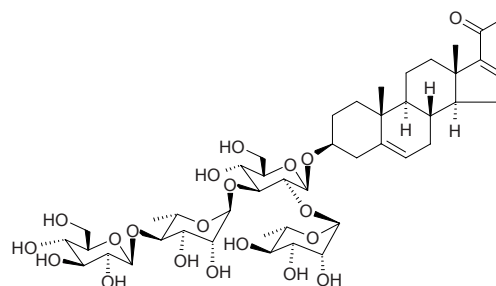
18718 1-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl]hexadecanol

C₄₀H₇₄O₁₉ (859.02). $[\alpha]_D = -37.2^\circ$ ($c = 0.492$, CH₃OH). Source: YAN SE LONG YAN *Dimocarpus fumatus*. Ref: 1853.



18719 3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl)oxy]pregna-5,16-dien-20-one

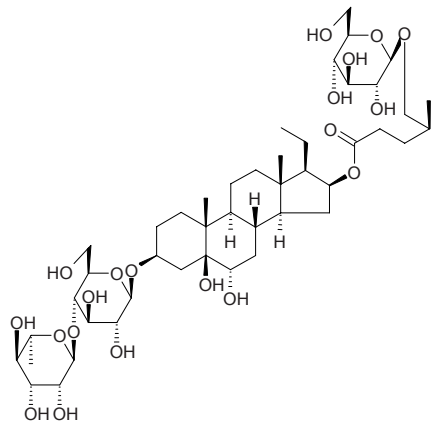
C₄₅H₇₀O₂₀ (931.05). Amorphous solid, $[\alpha]_D^{25} = -44.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (rhizome; yield = 0.00041%dw). Ref: 4648.



18720 3-O- α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl 3 β ,5 β ,6 α ,16 β -tetrahydroxypregnane 16-(5-O- β -D-glucopyranosyl-4(S)-methyl-5-hydroxypentanoic acid) ester

$C_{45}H_{76}O_{20}$ (937.10). Amorphous powder, $[\alpha]_D^{29} = -28.4^\circ$ ($c = 0.15$, pyridine).

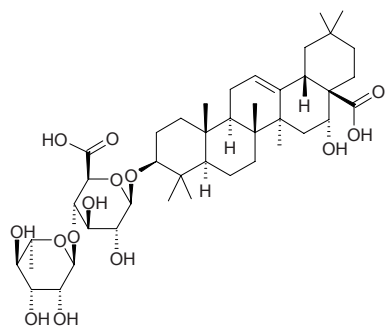
Source: JIU ZI *Allium tuberosum*. Ref: 4262.



18721 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucuronopyranosyl] echinocystic acid

$C_{42}H_{66}O_{14}$ (794.99). Amorphous powder, $[\alpha]_D^{23} = -27.8^\circ$ ($c = 1.10$, MeOH).

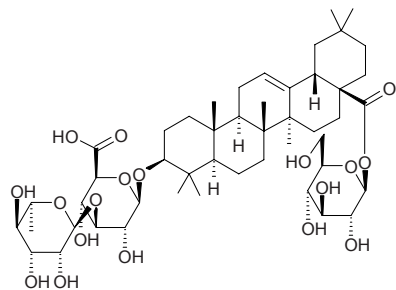
Source: E ZHANG TENG *Schefflera arboricola*. Ref: 3381.



18722 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 3)- β -D-glucuronopyranosyl]-28-O-(β -D-glucopyranosyl)-3 β -hydroxyolean-12-en-28-oate

$C_{48}H_{76}O_{18}$ (941.13). Source: JIU CENG FENG *Cladostachys amaranthoides*

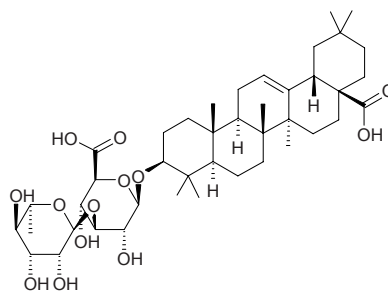
[Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*] (fruit). Ref: 660.



18723 3-O- α -L-Rhamnopyranosyl (1 \rightarrow 3)- β -D-glucuronopyranosyl-3 β -hydroxyolean-12-en-28-oate

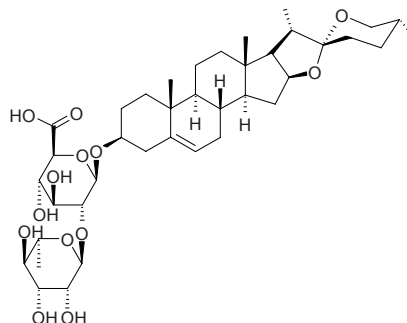
$C_{42}H_{66}O_{13}$ (778.99). Source: JIU CENG FENG *Cladostachys amaranthoides*

[Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*] (fruit). Ref: 660.



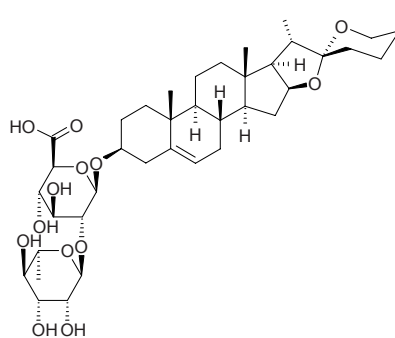
18724 3-O- α -L-Rhamnopyranosyl (1 \rightarrow 2)- β -D-glucuronopyranosyl-3 β -hydroxy-25R-spirost-5-ene

$C_{39}H_{60}O_{13}$ (736.91). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.



18725 3-O- α -L-Rhamnopyranosyl (1 \rightarrow 2)- β -D-glucuronopyranosyl-3 β -hydroxy-25S-spirost-5-ene

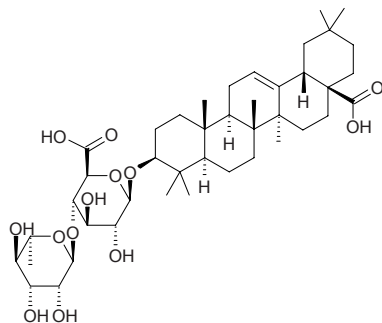
$C_{39}H_{60}O_{13}$ (736.91). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.



18726 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucuronopyranosyl] oleanolic acid

$C_{42}H_{66}O_{13}$ (778.99). Amorphous powder, $[\alpha]_D^{23} = -8.4^\circ$ ($c = 2.34$, MeOH).

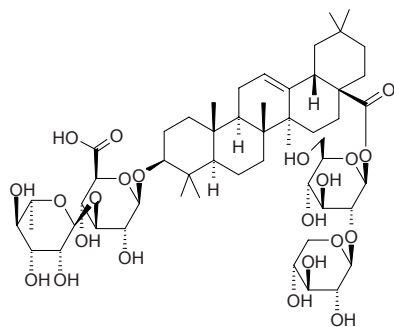
Source: E ZHANG TENG *Schefflera arborecola*. Ref: 3381.



18727 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 3)- β -D-glucuronopyranosyl]-28-O-[β -D-xylopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl]-3 β -hydroxy-olean-12-en-28-oate

$C_{53}H_{84}O_{22}$ (1073.25). Source: JIU CENG FENG *Cladostachys amaranthoides*

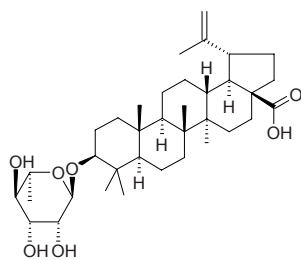
[Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*] (fruit). Ref: 660.



18728 α -L-Rhamnopyranosyl-3 β -hydroxy-lup-20(29)-en-28-oic acid

$C_{36}H_{58}O_7$ (602.86). Source: XIAO HUA WU YA GUO *Dillenia pentagyna*.

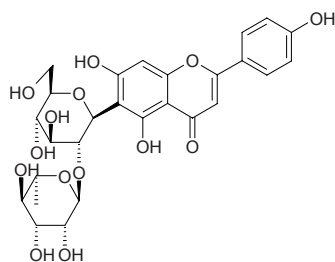
Ref: 1521.



18729 2''-O- α -L-Rhamnopyranosylisovitexin

$C_{27}H_{30}O_{14}$ (578.53). $[\alpha]_D^{27} = -122.4^\circ$ ($c = 0.65$, pyridine). Source: RI BEN

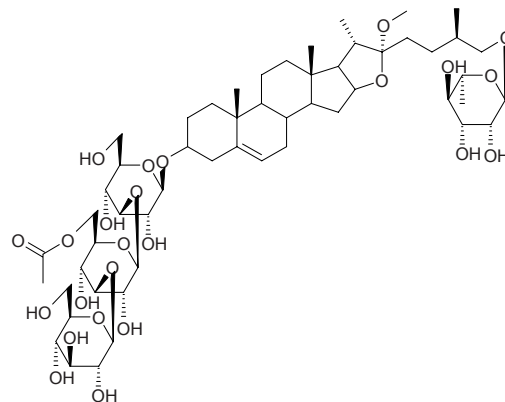
SHUANG HU DIE *Tripterispermum japonicum*. Ref: 3533.



18730 (25R)-26-[(α -L-Rhamnopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O-[6-acetyl- β -D-glucopyranosyl-(1 \rightarrow 3)]-O- β -D-glucopyranoside

$C_{54}H_{88}O_{24}$ (1121.29). Amorphous powder, $[\alpha]_D^{25} = -46^\circ$ ($c = 0.05$, MeOH).

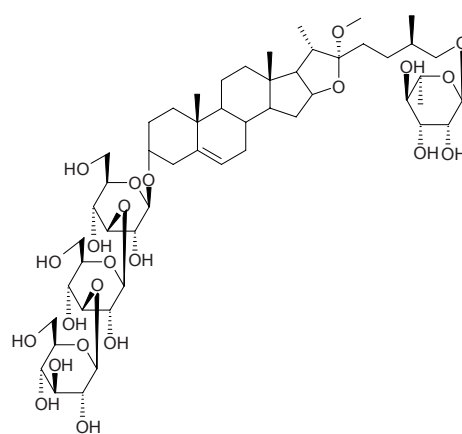
Source: LV TI GEN CAO *Helleborus viridis* (leaf). Ref: 3875.



18731 (25R)-26-[(α -L-Rhamnopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranoside

$C_{52}H_{86}O_{23}$ (1079.25). Amorphous powder, $[\alpha]_D^{25} = -70^\circ$ ($c = 0.1$, MeOH).

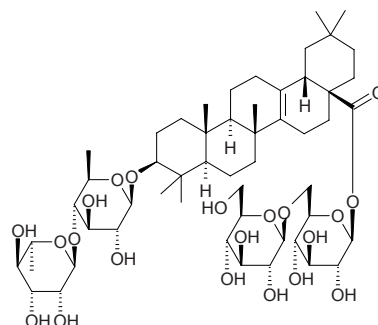
Source: LV TI GEN CAO *Helleborus viridis* (leaf). Ref: 3875.



18732 3-O- α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-quinovopyranosyl pyrocincholic acid 28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester

$C_{53}H_{86}O_{21}$ (1059.26). Amorphous powder, $[\alpha]_D^{25} = -43^\circ$ ($c = 0.5$, MeOH).

Source: WU BING XIN WU TAN *Neonauclea sessilifolia* [Syn. *Nauclea sessilifolia*; *Adina sessilifolia*](root). Ref: 4405.

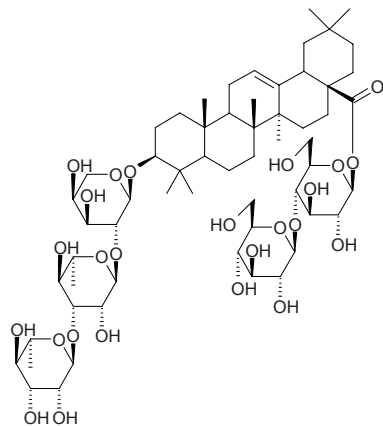


18733 3-*O*-(α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamno-pyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-olean-12-ene-28-*O*-(β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) ester

C₅₉H₉₆O₂₅ (1205.41). White powder, $[\alpha]_D^{25} = +22^\circ$, ($c = 1$, MeOH). **Pharm:** Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 1.78 μ mol/L; HEK-293 cell line, IC₅₀ = 2.2 μ mol/L; control 6-Mercaptopurine, J774.A1 cell line, IC₅₀ = 0.003 μ mol/L; HEK-293 cell line, IC₅₀ = 0.007 μ mol/L).

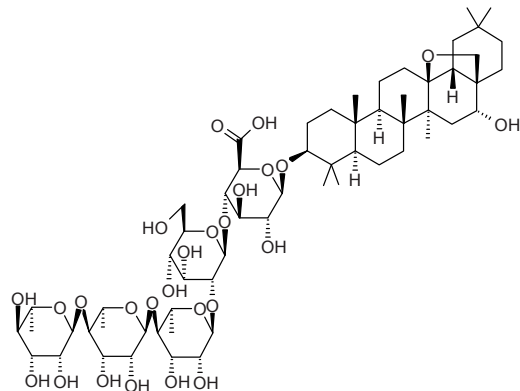
Source: YUAN YE E ZHANG CHAI *Schefflera roundifolia* (aerial parts).

Ref: 5036.



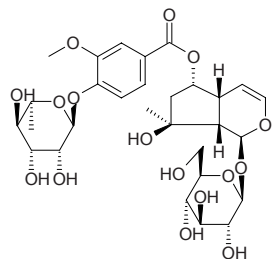
18734 3 β -{*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 4)-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-[*O*- α -L-rham-nopyranosyl-(1 \rightarrow 2)-*O*- β -D-glucopyranosyl(1 \rightarrow 4)-*O*- β -D-glucuronopyranosyl]}-16 α -hydroxy-13 β , 28-epoxyoleanane

C₆₀H₉₈O₂₆ (1235.43). **Source:** CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. **Ref:** 2.



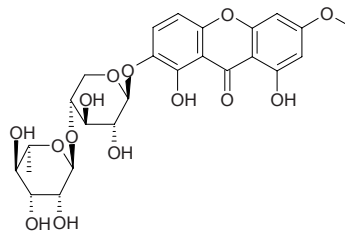
18735 6-*O*-(4''-*O*- α -L-Rhamnopyranosyl) vanilloylajugol

C₂₉H₄₀O₁₆ (644.63). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. **Ref:** 2.



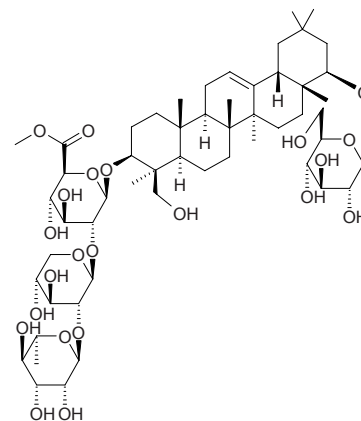
18736 2-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl]-1,8-dihydroxy-6-methoxyxanthone

C₂₅H₂₈O₁₄ (552.49). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 2528.



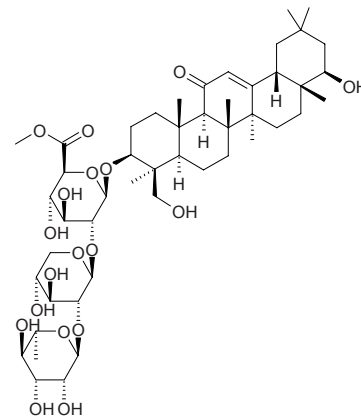
18737 3-*O*- α -L-Rhamnopyranosyl(1 \rightarrow 2)- β -D-xylopyranosyl(1 \rightarrow 2)-6-*O*-methyl- β -D-glucuronopyranosyl-soyasapogenol B 22-*O*- β -D-glucopyranoside

C₅₄H₈₈O₂₂ (1089.29). **Source:** BIAN JING HUANG QI *Astragalus complanatus*. **Ref:** 660.



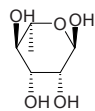
18738 3-*O*- α -L-Rhamnopyranosyl(1 \rightarrow 2)- β -D-xylopyranosyl(1 \rightarrow 2)-6-*O*-methyl- β -D-glucuronopyranosyl-3 β ,22 β ,24-trihydroxy-11-oxo-olean-12-ene

C₄₈H₇₆O₁₈ (941.13). **Source:** BIAN JING HUANG QI *Astragalus complanatus*. **Ref:** 660.

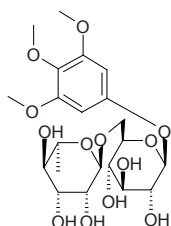


18739 Rhamnose

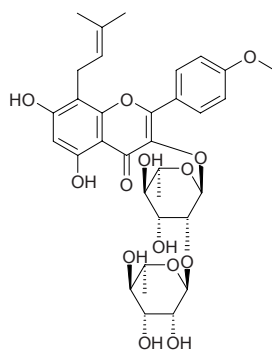
6-Deoxy-*L*-mannose [3615-41-6] C₆H₁₂O₅ (164.16). (L) White powdery crystals, mp 289–290°C (MeOH), mp (L) (α) 105°C, (β) 123–125°C. Source: DANG SHEN *Codonopsis pilosula*, DONG BEI CI REN SHEN *Oplopanax elatus*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], QIANG HUO *Notopterygium incisum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XIA YE XIANG PU *Typha angustifolia*. Ref: 2, 6, 450, 660.

**18740 1-[α -*L*-Rhamnosyl-(1→6)- β -*D*-glucopyranosyl]-3,4,5-trimethoxybenzene**

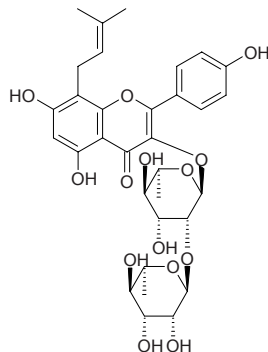
C₂₁H₃₂O₁₃ (492.48). Source: MAO GUO QI *Acer nikoense* (stem cortex: yield = 0.0010%). Ref: 4304.

**18741 2''-*O*-Rhamnosyl icariside II**

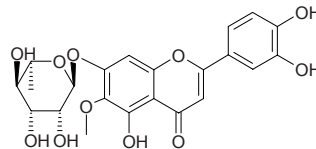
C₃₃H₄₀O₁₄ (660.68). Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 660.

**18742 2''-*O*-Rhamnosylkariside A**

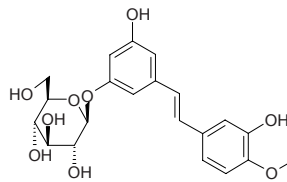
C₃₂H₃₈O₁₄ (646.65). Source: CHAO XIAN YIN YANG HUO *Epimedium koreanum*. Ref: 660.

**18743 7 α -*L*-Rhamnosyl-6-methoxyluteolin**

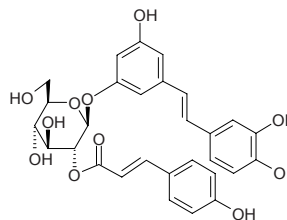
C₂₂H₂₂O₁₁ (462.41). Source: KONG XIN XIAN *Alternanthera philoxeroides*. Ref: 6.

**18744 Rhaponticin**

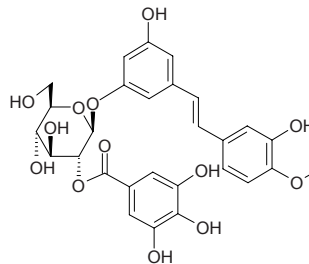
Rhapontigenin 3-*O*- β -*D*-glucopyranoside [155-58-8] C₂₁H₂₄O₉ (420.42). Colorless needles (acetone), mp 245–247°C, mp 246–248°C, mp 231°C, [α]_D²⁵ = –56° (*c* = 0.88, acetone:H₂O = 1:1) (lit. [α]_D²⁵ = –56.3°). Pharm: Platelet aggregation inhibitor (2.5 μ g/mL collagen-induced, IC₅₀ = (52.3 \pm 4.1) μ mol/L, *p* < 0.05, control *trans*-Resveratrol, IC₅₀ = (11.6 \pm 2.1) μ mol/L, *p* < 0.01; 6 μ mol/L ADP-induced, IC₅₀ = (112 \pm 17) μ mol/L, *p* < 0.05, *trans*-Resveratrol, IC₅₀ = (17.8 \pm 3.3) μ mol/L, *p* < 0.01)^[5094]. Source: DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, *Rheum palaestinum* (aerial parts). Ref: 2, 660, 1521, 5094.

**18745 Rhaponticin 2''-*O*-*p*-coumarate**

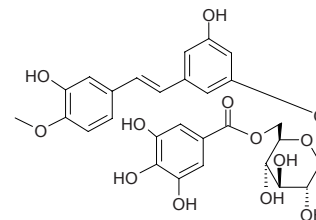
C₃₀H₃₀O₁₁ (566.57). Source: YU DA HUANG *Rheum* sp.^[4064]. Ref: 660, 4064.

**18746 Rhaponticin 2''-*O*-gallate**

C₂₈H₂₈O₁₃ (572.53). Source: YU DA HUANG *Rheum* sp.^[4064]. Ref: 660, 4064.

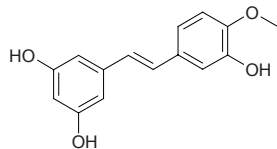
**18747 Rhaponticin 6''-*O*-gallate**

C₂₈H₂₈O₁₃ (572.53). Source: YU DA HUANG *Rheum* sp.^[4064]. Ref: 660, 4064.

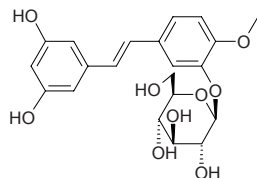


18748 Rhapontigenin

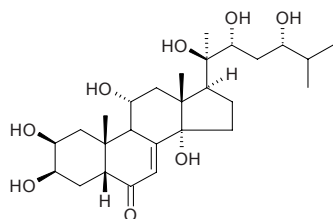
Pontigenin [500-65-2] $C_{15}H_{14}O_4$ (258.28). mp 186~187°C. Source: DA HUANG *Rheum officinale*. Ref: 6.

**18749 Rhapontigenin 3'-O-β-D-glucopyranoside**

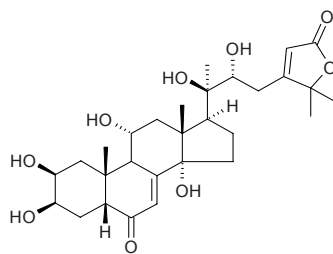
$C_{21}H_{24}O_9$ (420.42). Source: YU DA HUANG *Rheum* sp.^[4064]. Ref: 660, 4064.

**18750 Rhapontisterone**

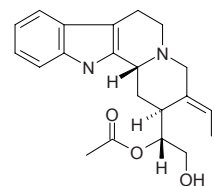
(20*R*,22*R*,24*S*)-2β,3β,11α,14α,20,22,24-Hepta-hydroxy-5β-cholest-7-en-6-one $C_{27}H_{44}O_8$ (496.65). White acicular crystals, mp 234~236°C. Source: LOU LU *Rhaponticum uniflorum*. Ref: 194.

**18751 Rhapontisterone R₁**

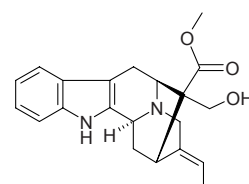
$C_{29}H_{42}O_9$ (534.65). Source: LOU LU *Rhaponticum uniflorum*. Ref: 365.

**18752 Rhazimanine**

$C_{21}H_{26}N_2O_3$ (354.45). Source: XIANG PI MU *Alstonia scholaris*. Ref: 660.

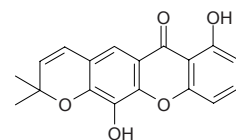
**18753 Rhazine**

[639-36-1] $C_{21}H_{24}N_2O_3$ (352.44). mp 245.0~247.5°C (ethanol), 243~246°C (benzene). Source: XIANG PI MU *Alstonia scholaris*. Ref: 6.

**18754 Rheediachromenoxanthone**

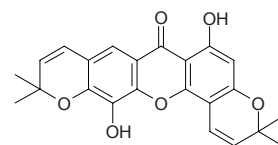
[82667-93-4] $C_{18}H_{14}O_5$ (310.31). Crystals (Et₂O-hexane), mp 223~224°C.

Pharm: Cytotoxic (P₃₈₈ ED₅₀ = 1.67μg/mL, control Mithramycin ED₅₀ = 0.06μg/mL; HT29 ED₅₀ = 4.68μg/mL, control Mithramycin ED₅₀ = 0.08μg/mL). Source: TAI WAN LV DAO TENG HUANG *Garcinia linii*, *Rheedia gardneriana*. Ref: 4094.

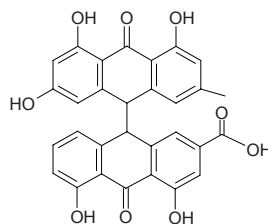
**18755 Rheediaxanthone A**

$C_{23}H_{20}O_6$ (392.41). Pharm: Antioxidant inactive (DPPH scavenger, 10μmol/L, ScRt = 8%; control BHT, 10μmol/L, ScRt = 43%, IC₅₀ = 19.00μmol/L)^[4422].

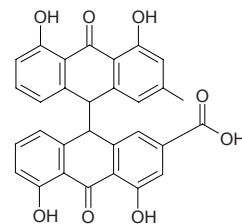
Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark), TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 3482, 4422.

**18756 Rheidin A**

Reidin A $C_{30}H_{20}O_9$ (524.49). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

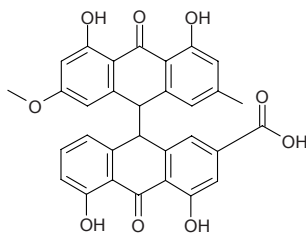
**18757 Rheidin B**

Reidin B $C_{30}H_{20}O_8$ (508.49). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

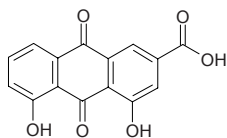


18758 Rheidin C

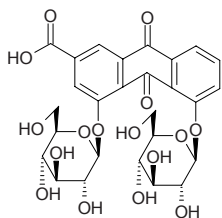
Rheidin C $C_{31}H_{22}O_9$ (538.52). Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. Ref: 2, 660.

**18759 Rhein**

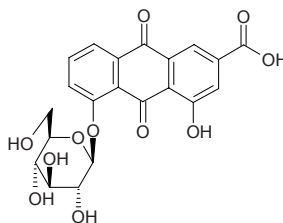
Cassic acid [478-43-3] $C_{15}H_8O_6$ (284.23). mp 321–322°C. Pharm: Antineoplastic (mus, melanoma, 50mg/(kg·d), InRt = 76%, mammary cancer and EAC); antiproliferative (liver cancer cell HepG2, IC_{50} = 39.3 μ mol/L, control 5-FU, 200 μ mol/L, inhibition rate = 50%)^[4915]; antibacterial (*Streptococcus* sp., *Staphylococcus aureus*, *Bacillus diphtheriae*, *Bacillus subtilis*, *Bacillus anthracis*, *B. typhosus*, *Bacillus paratyphosus*, and *Bacillus dysenteriae*, MIC = 15 μ g/mL); antifungal (dermatophyte); diuretic; laxative (very strong). Source: CHOU CAO *Ruta graveolens*, DA HUANG *Rheum officinale*, FAN XIE YE *Cassia angustifolia*, HE SHOU WU *Polygonum multiflorum* (dried tuberoid (preparing): content scope of 2 batch samples = 0.082%–0.094%, mean content = 0.088%)^[5508], HU ZHANG *Polygonum cuspidatum*, JIAN YE FAN XIE YE *Cassia acutifolia*, JUE MING ZI *Cassia tora*, SHAN BIAN DOU ZI *Cassia mimosoides*, SHE XIANG XUAN *Hemerocallis thunbergii*, TANG GU TE DA HUANG *Rheum tanguticum*, XUAN CAO GEN *Hemerocallis fulva* (root: mean content collected in Apr. To Jun. = 0.02016%)^[5508], ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (stem and rhizome: content < 0.05%)^[5508], ZHANG YE DA HUANG *Rheum palmatum* (stem and rhizome: content scope = 0.50%–4.50%). Ref: 2, 4, 555, 658, 660, 4915, 5508.

**18760 Rhein diglucoside**

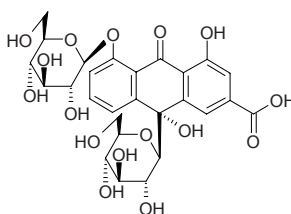
$C_{27}H_{28}O_{16}$ (608.51). Source: ZHANG YE DA HUANG *Rheum palmatum*. Ref: 6.

**18761 Rhein-8-O-β-D-glucopyranoside**

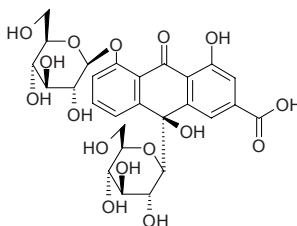
Rhein-8-monoglucoside $C_{21}H_{18}O_{11}$ (446.37). mp 260–266°C. Source: DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum* (dried stem and rhizome: mean content of 3 origins = 1.07%)^[5517], ZHANG YE DA HUANG *Rheum palmatum* (dried stem and rhizome: mean content of 4 origins = 1.27%)^[5517]. Ref: 2, 6, 660, 5517.

**18762 Rheinoside A**

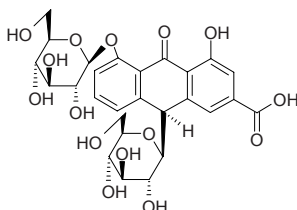
$C_{27}H_{30}O_{16}$ (610.53). Source: ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.

**18763 Rheinoside B**

$C_{27}H_{30}O_{16}$ (610.53). Source: ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.

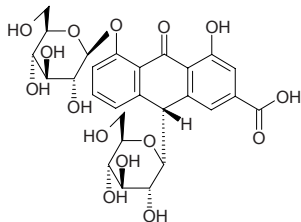
**18764 Rheinoside C**

$C_{27}H_{30}O_{15}$ (594.53). Source: ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.

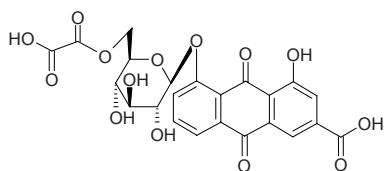


18765 Rheinoside D

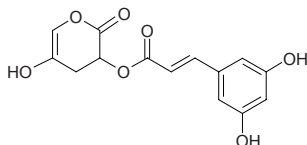
$C_{27}H_{30}O_{15}$ (594.53). Source: ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.

**18766 Rhein-8-O-β-D-(6'-oxalyl)-glucopyra-noside**

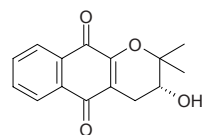
$C_{23}H_{18}O_{14}$ (518.39). Source: DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*. Ref: 2, 660.

**18767 Rheumin**

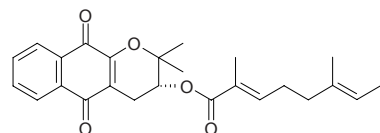
$C_{14}H_{12}O_7$ (292.25). Yellow acicular crystals, mp 245~248°C. Source: HE TAO DA HUANG *Rheum hotaense*. Ref: 818.

**18768 Rhinacanthin A**

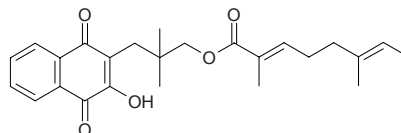
$C_{15}H_{14}O_4$ (258.28). Pharm: Cytotoxic (KB ED₅₀ = 6.75μg/mL; P₃₈₈ ED₅₀ = 0.72μg/mL; A549 ED₅₀ = 3.06μg/mL; HT29 ED₅₀ = 2.17μg/mL; HL-60 ED₅₀ = 1.16μg/mL); platelet aggregation inhibitor (rbt: due to 10μg/mL collagen, 50μg/mL InRt = 100%; due to 100μmol/L arachidonic acid, 100μg/mL InRt = 100%). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.049%dw). Ref: 660, 1555.

**18769 Rhinacanthin B**

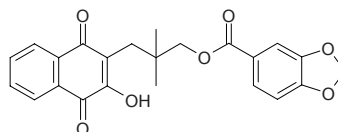
$C_{25}H_{28}O_5$ (408.50). Pharm: Cytotoxic (KB ED₅₀ = 8.01μg/mL; P₃₈₈ ED₅₀ = 0.35μg/mL; A549 ED₅₀ = 6.50μg/mL; HT29 ED₅₀ = 3.01μg/mL; HL-60 ED₅₀ = 2.57μg/mL); platelet aggregation inhibitor (rbt: due to 10μg/mL collagen, 50μg/mL InRt = 87.8%, 100μg/mL InRt = 100%; due to 2ng/mL PAF, 100μg/mL InRt = 63.1%). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0058%dw). Ref: 660, 1555.

**18770 Rhinacanthin C**

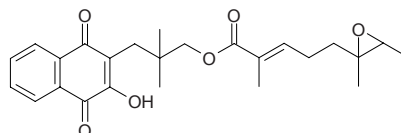
$C_{25}H_{30}O_5$ (410.51). Pharm: Cytotoxic (KB ED₅₀ = 6.26μg/mL; P₃₈₈ ED₅₀ = 0.26μg/mL; A549 ED₅₀ = 0.35μg/mL; HT29 ED₅₀ = 0.68μg/mL; HL-60 ED₅₀ = 0.68μg/mL); platelet aggregation inhibitor (rbt: due to 10μg/mL collagen, 100μg/mL InRt = 75.2%; due to 100μmol/L arachidonic acid, 100μg/mL InRt = 100%); antiviral (hmn, CMV, EC₅₀ = 0.02μg/mL, SI = 28; mus, CMV, EC₅₀ = 0.57μg/mL, SI = 4.6). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.114%dw). Ref: 1555.

**18771 Rhinacanthin D**

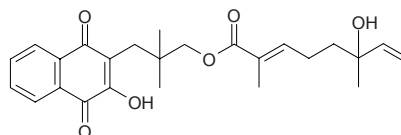
$C_{23}H_{20}O_7$ (408.41). Pharm: Cytotoxic (KB ED₅₀ = 25.0μg/mL; P₃₈₈ ED₅₀ = 3.79μg/mL; A549 ED₅₀ = 8.26μg/mL; HT29 ED₅₀ = 8.89μg/mL; HL-60 ED₅₀ = 11.8μg/mL); antiviral (hmn, CMV, EC₅₀ = 0.22μg/mL; mus, CMV, EC₅₀ = 9.5μg/mL). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0025%). Ref: 1555.

**18772 Rhinacanthin G**

$C_{25}H_{30}O_6$ (426.51). Pharm: Cytotoxic (KB ED₅₀ = 4.45μg/mL; P₃₈₈ ED₅₀ = 0.14μg/mL; A549 ED₅₀ = 0.75μg/mL; HT29 ED₅₀ = 0.57μg/mL; HL-60 ED₅₀ = 1.14μg/mL); platelet aggregation inhibitor (rbt: due to 100μmol/L arachidonic acid, 100μg/mL InRt = (42.6±8.9)%). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0046%). Ref: 1555.

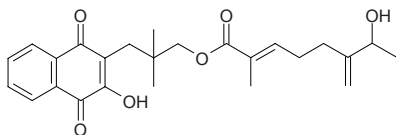
**18773 Rhinacanthin H**

$C_{25}H_{30}O_6$ (426.51). Pharm: Cytotoxic (KB ED₅₀ = 23.8μg/mL; P₃₈₈ ED₅₀ = 6.43μg/mL; A549 ED₅₀ = 9.97μg/mL; HT29 ED₅₀ = 11.5μg/mL; HL-60 ED₅₀ = 8.87μg/mL); platelet aggregation inhibitor (rbt: due to 100μmol/L arachidonic acid, 100μg/mL InRt = (54.8±4.4)%; due to 10μg/mL collagen, 100μg/mL InRt = (31.0±3.9)%). Source: BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0028%). Ref: 1555.

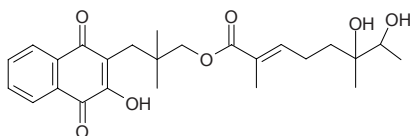


18774 Rhinacanthin I

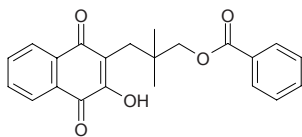
$C_{25}H_{30}O_6$ (426.51). **Pharm:** Cytotoxic (KB ED_{50} = 13.2 μ g/mL; P_{388} ED_{50} = 4.88 μ g/mL; A549 ED_{50} = 7.18 μ g/mL; HT29 ED_{50} = 6.30 μ g/mL; HL-60 ED_{50} = 5.12 μ g/mL); platelet aggregation inhibitor (rbt: due to 100 μ mol/L arachidonic acid, 100 μ g/mL InRt = (54.9 \pm 8.2)%; due to 2ng/mL PAF, 100 μ g/mL InRt = (22.2 \pm 3.9)%). **Source:** BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0037%). **Ref:** 1555.

**18775 Rhinacanthin K**

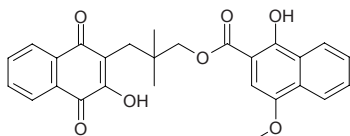
$C_{25}H_{30}O_7$ (444.53). **Pharm:** Cytotoxic (KB ED_{50} = 17.3 μ g/mL, P_{388} ED_{50} = 3.17 μ g/mL, A549 ED_{50} = 16.4 μ g/mL, HT29 ED_{50} = 7.75 μ g/mL, HL-60 ED_{50} = 6.81 μ g/mL); platelet aggregation inhibitor (rbt: due to 100 μ mol/L arachidonic acid, 100 μ g/mL InRt = (36.8 \pm 8.9)%). **Source:** BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0017%). **Ref:** 1555.

**18776 Rhinacanthin M**

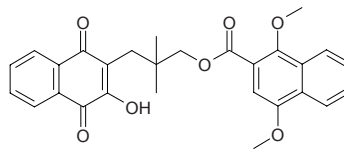
$C_{22}H_{20}O_5$ (364.40). **Pharm:** Cytotoxic (KB ED_{50} = 19.2 μ g/mL; P_{388} ED_{50} = 3.95 μ g/mL; A549 ED_{50} = 8.90 μ g/mL; HT29 ED_{50} = 10.1 μ g/mL; HL-60 ED_{50} = 19.9 μ g/mL); platelet aggregation inhibitor (rbt: due to 100 μ mol/L arachidonic acid, 100 μ g/mL InRt = (100 \pm 1)%). **Source:** BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0037%). **Ref:** 1555.

**18777 Rhinacanthin N**

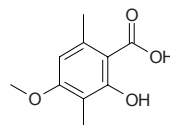
$C_{27}H_{24}O_7$ (460.49). **Pharm:** Cytotoxic (KB ED_{50} = 4.80 μ g/mL; P_{388} ED_{50} = 0.71 μ g/mL; A549 ED_{50} = 1.97 μ g/mL; HT29 ED_{50} = 2.67 μ g/mL; HL-60 ED_{50} = 1.38 μ g/mL). **Source:** BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.0012%). **Ref:** 1555.

**18778 Rhinacanthin Q**

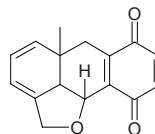
$C_{28}H_{26}O_7$ (474.52). **Pharm:** Cytotoxic (P_{388} ED_{50} = 0.61 μ g/mL; A549 ED_{50} = 3.61 μ g/mL; HT29 ED_{50} = 7.60 μ g/mL; HL-60 ED_{50} = 8.90 μ g/mL); platelet aggregation inhibitor (rbt: due to 100 μ mol/L arachidonic acid, 100 μ g/mL InRt = (55 \pm 11)%; due to 10 μ g/mL collagen, 100 μ g/mL InRt = (20.4 \pm 3.7)%). **Source:** BAI HE LING ZHI *Rhinacanthus nasutus* (root; yield = 0.00021%). **Ref:** 1555.

**18779 Rhizonic acid**

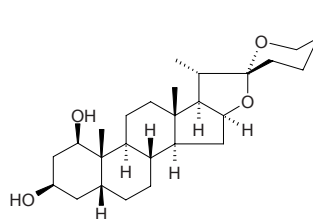
Coccellinic acid $C_{10}H_{12}O_4$ (196.20). **Source:** DI TU YI *Rhizocarpon geographicum*, LI BIAN ZHI YI *Evernia prunastri*. **Ref:** 1521.

**18780 Rhizonone**

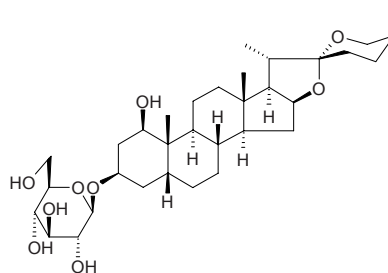
$C_{16}H_{14}O_3$ (254.29). Colorless oil. **Pharm:** Antifungal (*Cladosporium fulvum*, inhibits spore germination). **Source:** ZI CAO *Lithospermum erythrorhizon*. **Ref:** 2298.

**18781 Rhodeasapogenin**

[514-30-7] $C_{27}H_{44}O_4$ (432.65). mp 293~295°C. **Source:** LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. **Ref:** 6.

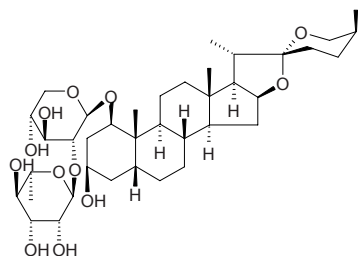
**18782 Rhodeasapogenin-3-O-β-D-glucopyranoside**

$C_{33}H_{54}O_9$ (594.79). **Source:** WAN NIAN QING GEN *Rhodea japonica* [Syn. *Orontium japonicum*]. **Ref:** 660.



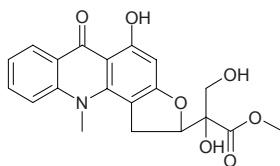
18783 Rhodexasopogenin-1-O- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-xylopyranoside

C₃₈H₆₂O₁₂ (710.91). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.



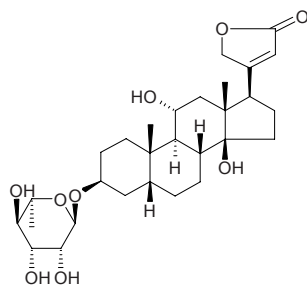
18784 Rhodesiacidrone

Methyl 2,3-dihydroxy-2-(5-hydroxy-11-methyl-6-oxo-1,2,6,11-tetrahydrofuro [2,3-c]acridin-2-yl) propanoate C₂₀H₁₉NO₇ (385.38). Yellow amorphous powder, [α]_D = -47.7° (c = 0.1, MeOH). Pharm: Antileishmanial (*Leishmania major* promastigote, 10 μ mol/L, survival = (30.7 \pm 3.2)%, 1 μ mol/L, survival = (96.0 \pm 1.8)%, control Amphotericin B, 10 μ mol/L, survival = (0.2 \pm 0.04)%, 1 μ mol/L, survival = (71.9 \pm 4.4)%; *Leishmania major* amastigote, 10 μ mol/L, survival = (6.2 \pm 0.7)%, 1 μ mol/L, survival = (48.6 \pm 2.7)%, control Amphotericin B, 10 μ mol/L, survival = (0.4 \pm 0.02)%, 1 μ mol/L, survival = (0.5 \pm 0.03)%); antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2 μ g). Source: *Thamnosma rhodesica* (root). Ref: 3797.



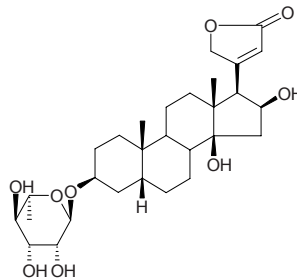
18785 Rhodexin A

[545-49-3] C₂₉H₄₄O₉ (536.67). mp 265°C (dec). Pharm: Cardiotonic; toxin (vertebrate). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 6, 658.



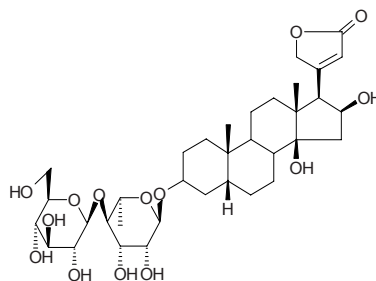
18786 Rhodexin B

[50906-58-6] C₂₉H₄₄O₉ (536.67). mp 262°C (dec). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660, 1521.



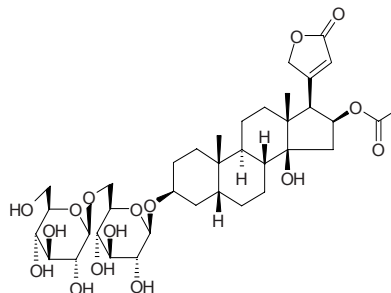
18787 Rhodexin C

[50906-57-5] C₃₅H₅₄O₁₄ (699.81). mp 275°C (dec). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660, 1521.



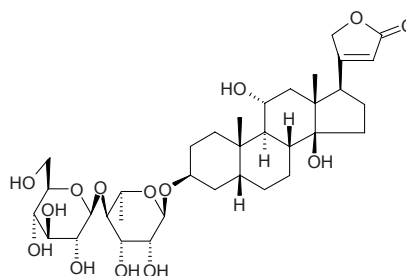
18788 Rhodexin D

C₃₇H₅₆O₁₆ (756.85). mp 181~184°C. Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 6.



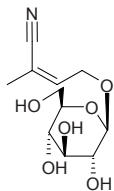
18789 Rhodexoside

C₃₅H₅₄O₁₄ (698.81). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.

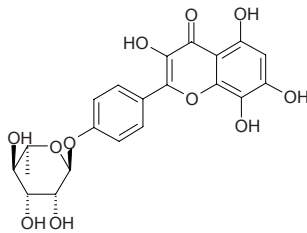


18790 Rhodiocyanoside A

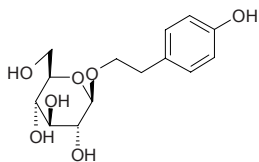
(Z)-4-(β -D-Glucopyranosyloxy)-2-methyl-2-butenenitrile; Multifidin [168433-86-1] C₁₁H₁₇NO₆ (259.26). **Pharm:** Antiallergic (rat, passive skin allergy, 100mg/kg, 20min InRt = 26.9%). **Source:** SHENG DI HONG JING TIAN *Rhodiola sacra*. **Ref:** 742, 1726.

**18791 Rhodiolatuntoside**

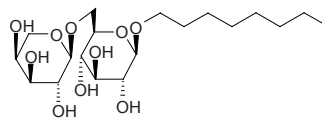
3,5,7,8-Tetrahydroxyl flavone 4'-O- α -L-rhamnopyranoside C₂₁H₂₀O₁₁ (448.39). Yellow amorphous powder, mp 350°C. **Source:** DE QIN HONG JING TIAN *Rhodiola atuntsuensis*. **Ref:** 885.

**18792 Rhodiolioside**

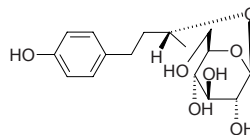
Salidroside; *p*-Hydroxyphenethyl- β -D-glucoside [10338-51-9] C₁₄H₂₀O₇ (300.31). **Pharm:** Anti-inflammatory (inhibits production of COX metabolite PGE₂, IC₅₀ = 72.1 μ mol/L; reduces TXB₂ level, IC₅₀ = 154 μ mol/L)^[44151]. **Source:** DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*] (root: content = 1.26%^[5508]), HU SHENG HONG JING TIAN *Rhodiola subopposita* (whole herb: content = 0.25%^[5508]), JI SHI HONG JING TIAN *Rhodiola algida* (root: content = 3.13%^[5508]), KUO YE OU NV ZFEN *Phillyrea latifolia* (leaf), MA QIAN ZI *Strychnos nux-vomica*, NV ZHEN ZI *Ligustrum lucidum* (ripe fruit: content scope of 6 origins = 6.11%–9.17%; mean content = 7.22%^[5508]), SHEN HONG HONG JING TIAN *Rhodiola coccinea* (root: content = 0.98%^[5508]), SHENG DI HONG JING TIAN *Rhodiola sacra*, SI LIE HONG JING TIAN *Rhodiola quadrifida* (root: content = 2.12%^[5508]), XI MA HONG JING TIAN *Rhodiola himalansis* (whole herb: content = 0.014%^[5508]), XIA YE HONG JING TIAN *Rhodiola kirilowii* (root: content = 2.51%^[5508]), YUAN CONG HONG JING TIAN *Rhodiola juparensis* (root: content = 0.64%^[5508]), YUE JU YE *Vaccinium vitis-idaea*, YUN NAN HONG JING TIAN *Rhodiola yunnanensis* (whole herb: content = 0.031%^[5508]). **Ref:** 2, 6, 218, 516, 660, 1521, 4415, 5508.

**18793 Rhodioctanoside**

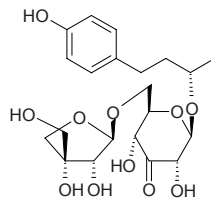
Octyl 6-O- α -L-arabinopyranosyl- β -D-glucopyranoside [168288-07-1] C₁₉H₃₆O₁₀ (424.49). **Source:** SHENG DI HONG JING TIAN *Rhodiola sacra*. **Ref:** 742.

**18794 Rhododendrin**

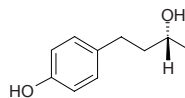
[497-78-9] C₁₆H₂₄O₇ (328.36). **Pharm:** Diuretic; causes perspiration. **Source:** NIU PI CHA *Rhododendron chrysanthum*, FU LEI SHI DU JUAN HUA *Rhododendron fauriei*, *Betula* sp. **Ref:** 658.

**18795 Rhododendroketoside**

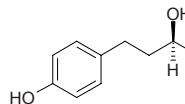
C₂₁H₃₀O₁₁ (458.47). White powder, [α]_D²² = -84.6° (*c* = 0.20, EtOH). **Source:** MAO GUO QI *Acer nikoense* (stem cortex: yield = 0.0009%). **Ref:** 4304.

**18796 Rhododendrol**

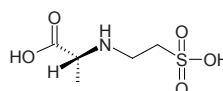
[501-96-2] C₁₀H₁₄O₂ (166.22). mp (-) 82°C. **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*, MAN SHAN HONG *Rhododendron dauricum*. **Ref:** 6.

**18797 (+)-Rhododendrol**

C₁₀H₁₄O₂ (166.22). **Pharm:** β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (2.2 \pm 0.5)%). **Source:** MAO GUO QI *Acer nikoense* (stem cortex). **Ref:** 4304.

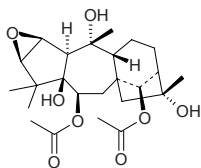
**18798 D-Rhodioc acid**

C₅H₁₁NO₅S (197.21). **Source:** JIAO CHA CAI *Chondrus ocelladus*. **Ref:** 660.

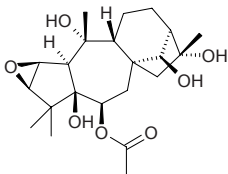


18799 Rhodojaponin I

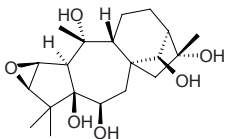
$C_{24}H_{36}O_8$ (452.55). Source: RI BEN DU JUAN HUA *Rhododendron japonicum* (in 1969, the compound was isolated from the plant). Ref: 5505.

**18800 Rhodojaponin II**

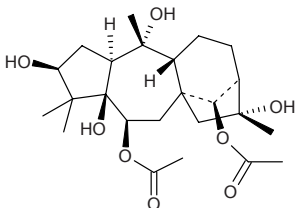
$C_{22}H_{34}O_7$ (410.51). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.0063%dw), RI BEN DU JUAN HUA *Rhododendron japonicum* (in 1969, the compound was isolated from the plant). Ref: 4780, 5505.

**18801 Rhodojaponin III**

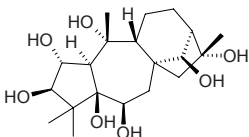
$C_{20}H_{32}O_6$ (368.47). Source: RI BEN DU JUAN HUA *Rhododendron japonicum* (the compound was isolated from the plant by Kuni Ito et al. in 1969)^[5505], NAO YANG HUA *Rhododendron molle* (flower: yield = 0.0042%dw)^[4780], NAO YANG HUA ZI *Rhododendron molle* (fruit). Ref: 660, 4780, 5505.

**18802 Rhodojaponin IV**

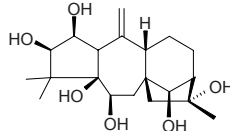
[30460-34-5] $C_{24}H_{38}O_8$ (454.57). Pharm: Phytotoxin. Source: RI BEN DU JUAN HUA *Rhododendron japonicum*. Ref: 658.

**18803 Rhodojaponin VI**

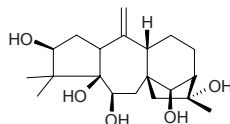
$C_{20}H_{34}O_7$ (386.49). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.0042%dw). Ref: 4780.

**18804 Rhodomollein I**

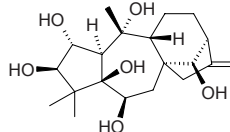
$C_{20}H_{32}O_6$ (368.47). Source: NAO YANG HUA ZI *Rhododendron molle* (fruit). Ref: 660.

**18805 Rhodomollein II**

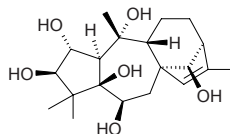
$C_{20}H_{32}O_5$ (352.48). Source: NAO YANG HUA ZI *Rhododendron molle* (fruit). Ref: 660.

**18806 Rhodomollein IX**

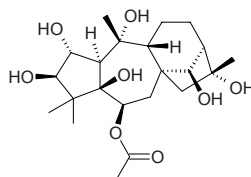
2 α ,3 β ,5 β ,6 β ,10 α ,14 β -Hexahydroxygrayan-16-ene $C_{20}H_{32}O_6$ (368.47). Amorphous powder, mp 133~135°C, $[\alpha]_D^{25} = -32.8^\circ$ ($c = 0.24$, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00021%dw). Ref: 4780.

**18807 Rhodomollein X**

2 α ,3 β ,5 β ,6 β ,10 α ,14 β -Hexahydroxygrayan-15-ene $C_{20}H_{32}O_6$ (368.47). Amorphous powder, mp 223~224°C, $[\alpha]_D^{25} = -11.0^\circ$ ($c = 0.45$, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00017%dw). Ref: 4780.

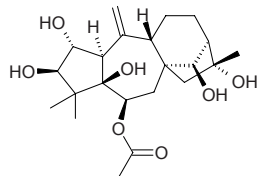
**18808 Rhodomollein XI**

6 β -Acetoxy-2 α ,3 β ,5 β ,14 β ,16 α -pentahydroxygrayanane $C_{22}H_{36}O_8$ (428.53). Amorphous powder, mp 170~172°C, $[\alpha]_D^{25} = -24.5^\circ$ ($c = 0.89$, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.0042%dw). Ref: 173, 4780.

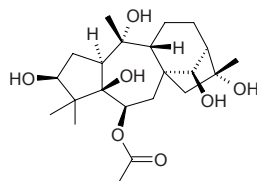


18809 Rhodomollein XII

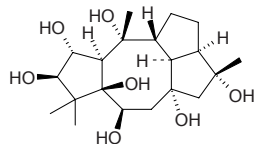
6 β -Acetoxy-2 α ,3 β ,5 β ,14 β ,16 α -pentahydroxygrayan-10(20)-ene C₂₂H₃₄O₇ (410.51). Amorphous powder, mp 75~77°C, [α]_D²⁵ = -14.5° (c = 1.09, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00013%dw). Ref: 4780.

**18810 Rhodomollein XIII**

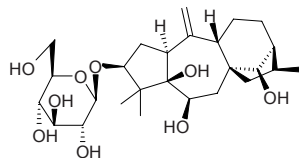
6 β -Acetyloxy-3 β ,5 β ,10 α ,14 β ,16 α -pentahydroxygrayanane C₂₂H₃₆O₇ (412.53). Amorphous powder, mp > 255°C, [α]_D²⁵ = -14.7° (c = 0.16, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00025%dw). Ref: 4780.

**18811 Rhodomollein XIV**

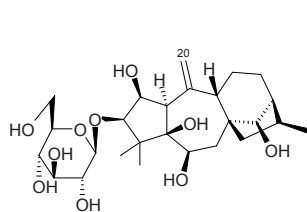
2 α ,3 β ,5 β ,6 β ,8 α ,10 α ,16 α -Heptahydroxykalmene C₂₀H₃₄O₇ (386.49). Amorphous powder, mp 133~135°C, [α]_D²⁵ = -17.1° (c = 0.08, MeOH). Source: NAO YANG HUA *Rhododendron molle* (flower: yield = 0.00021%dw). Ref: 4780.

**18812 Rhodoside A**

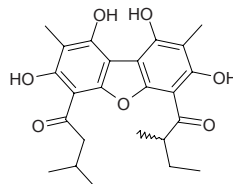
C₂₆H₄₂O₉ (498.62). Viscous syrup, [α]_D²⁰ = -31.2° (c = 0.50, MeOH). Source: NAO YANG HUA *Rhododendron molle*. Ref: 5396.

**18813 Rhodoside B**

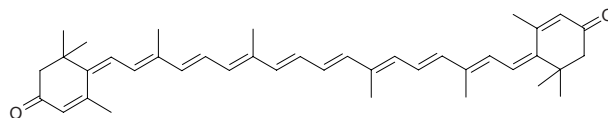
C₂₆H₄₂O₁₀ (514.62). Viscous syrup, [α]_D²⁰ = -26.9° (c = 1.18, MeOH). Source: NAO YANG HUA *Rhododendron molle*. Ref: 5396.

**18814 ψ -Rhodomyrtxin**

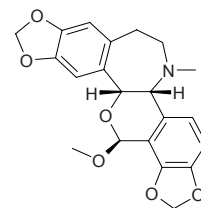
[24563-20-0] C₂₄H₂₈O₇ (428.49). Pharm: Toxin (mus). Source: DA GUO TAO JIN NIANG *Rhodomyrtus macrocarpa*. Ref: 658.

**18815 Rhodoxanthin**

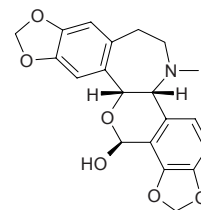
[116-30-3] C₄₀H₅₀O₂ (562.84). Source: FU YE YAN ZI CAI *Potamogeton natans*, JIANG GUO ZI SHAN *Taxus baccata*, *Equisetum* sp., *Adiantum* sp. Ref: 658.

**18816 Rhoeadine**

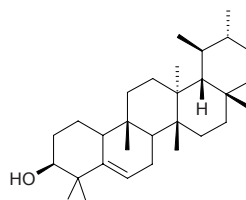
[2718-25-4] C₂₁H₂₁NO₆ (383.40). mp 256~257°C. Pharm: Cytotoxic (ascites carcinoma cells, *in vitro*); antitussive (dispels phlegm); sedative; toxin (induces spasm of tested animals in high dose); LD₅₀ (rat, ip) = 530mg/kg. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], YA PIAN *Papaver somniferum*. Ref: 6, 658.

**18817 Rhoegenine**

[5574-77-6] C₂₀H₁₉NO₆ (369.38). mp 236~238°C. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*]. Ref: 6.

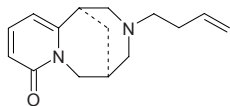
**18818 Rhoiptelenol**

C₃₀H₅₀O (426.73). Source: YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0036%). Ref: 4163.

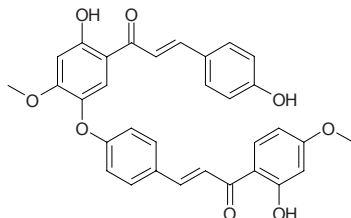


18819 Rhombifoline

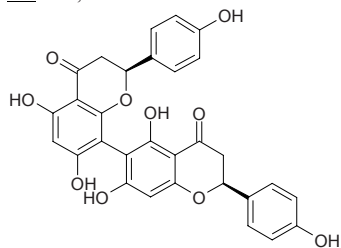
[529-78-2] $C_{15}H_{20}N_2O$ (244.34). bp 120°C/0.2mmHg. Source: MU MA DOU *Thermopsis lanceolata*. Ref: 6.

**18820 Rhuschalcone 1**

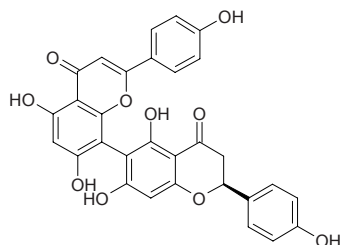
2',4'',2'''-Trihydroxy-4',4'''-dimethoxy-4-O-5'''-bichalcone $C_{32}H_{26}O_8$ (538.56). Yellow needles (methanol), mp 232–234°C. Source: *Rhus pyroides* (twig). Ref: 3934.

**18821 Rhusflavanone**

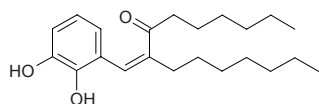
$C_{30}H_{22}O_{10}$ (542.50). Source: YE QI SHU ZI *Rhus sylvestris* (fruit and seed). Ref: 660, 1521.

**18822 Rhusflavone**

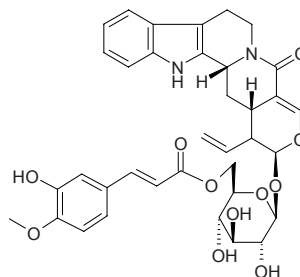
$C_{30}H_{20}O_{10}$ (540.49). Source: YE QI SHU ZI *Rhus sylvestris* (fruit and seed). Ref: 660.

**18823 Rhusone**

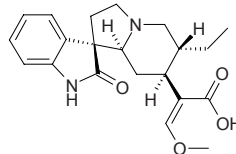
1-(2',3'-Dihydroxyphenyl)-2-n-heptyl-1-nonene-3-one $C_{22}H_{34}O_3$ (346.51). Light grey amorphous powder, mp 60–62°C, soluble in liposoluble organic solvents, insoluble in water. Source: TAI SHAN YAN FU ZI *Rhus taishanensis*. Ref: 494.

**18824 Rhynchophine**

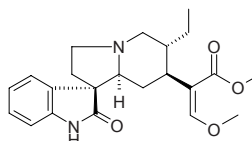
[84638-29-9] $C_{36}H_{38}N_2O_{11}$ (674.71). Pharm: Anti-inflammatory^[5341], antiviral^[5341]. Source: BI LU GOU TENG *Uncaria tomentosa*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2, 5341.

**18825 Rhynchophyllic acid**

$C_{21}H_{26}N_2O_4$ (370.45). Source: HUA GOU TENG *Uncaria sinensis*. Ref: 660, 5341.

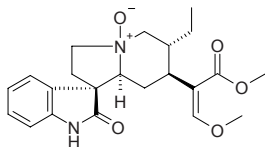
**18826 Rhynchophylline**

Mitrinermine [76-66-4] $C_{22}H_{28}N_2O_4$ (384.48). Colorless acicular crystals (MeOH), mp 216°C, $[\alpha]_D^{13} = -14.7^\circ$ ($c = 2.5$, $CHCl_3$), soluble in $CHCl_3$, acetone, ethanol, slightly soluble in ether, acetic ester, almost insoluble in petroleum ether.^[5507] Pharm: Antihypertensive (spontaneous hypertensive rats)^[5341]; smooth muscle relaxant (gpg colonic); antihypertensive (primary hypertensive rat, 50mg/kg perfusion in stomach, blood pressure reduced by 18mmHg; cat, iv, 20mg/kg, blood pressure reduced 32% and the action lasts 4h, in clinic for 254 patients treated, overall effective rate = 77.2%); reduces consumption of oxygen in myocardium; sedative (hypnotic, 100mg/kg, prolongation of thiopental-induced hypnosis)^[5341]; slows heart rate; slows myocardial contractility; immunostimulant inactive^[5341]; LD₅₀ (mus, ip)= 162.3mg/kg, (mus, sc)= 165mg/kg. Source: BAI GOU TENG *Uncaria sessilifrutus* [Syn. *Nauclea sessilifrutus*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DA YE GOU TENG *Uncaria macrophylla* (hooked stem-branch: mean content = 0.065%^[5508]), FEI ZHOU GOU TENG *Uncaria africana*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*] (hooked stem-branch: mean content = 0.018%^[5508]), GUI YA NA GOU TENG *Uncaria guianensis*, HOU YE GOU TENG *Uncaria callophylla*, HUA GOU TENG *Uncaria sinensis* (hooked stem-branch: mean content = 0.032%^[5508]), MAO GOU TENG *Uncaria hirsuta* (hooked stem-branch: mean content = 0.020%^[5508]), PI ZHEN YE GOU TENG *Uncaria lancifolia* (hooked stem-branch: mean content = 0.035%^[5508]), PO LUO ZHOU GOU TENG *Uncaria borneensis*, SUAN GOU TENG *Uncaria acida*, TUO YUAN GOU TENG *Uncaria elliptica*, WU CI MAO ZHU MU *Mitragyna inermis*^[5507], XIA GOU TENG *Uncaria attenuata*, XIN XING GOU TENG *Uncaria cordata*, *Uncaria bernaysii*, *Uncaria kunstleri*, *Uncaria sterrophylla*, *Uncaria talbotii*. Ref: 4, 658, 660, 5341, 5501, 5507, 5508.

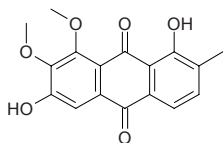


18827 Rhynchophylline N-oxide

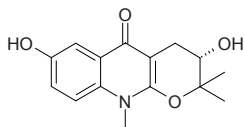
$C_{22}H_{28}N_2O_5$ (400.48). Source: FENG XIANG SHU YE *Cephalanthus occidentalis*, HUA GOU TENG *Uncaria sinensis*. Ref: 6, 660.

**18828 Rhynchotechol**

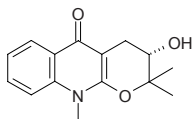
1,6-Dihydroxy-7,8-dimethoxy-2-methyl-9,10-anthraquinone [133086-78-9] $C_{17}H_{14}O_6$ (314.30). Orange acicular crystals, mp 236.5~238.0°C. Source: MAO XIAN ZHU JU TAI *Rhynchotechum vestitum*. Ref: 168.

**18829 Ribalinidine**

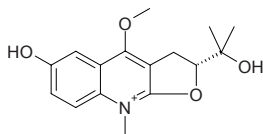
$C_{15}H_{17}NO_4$ (275.31). mp 257~258°C (dec). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**18830 Ribalinine**

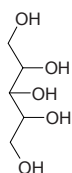
$C_{15}H_{17}NO_3$ (259.31). Source: SAN CHA KU *Evodia lepta* [Syn. *Ilex lepta*], YE HUA JIAO PI *Zanthoxylum simulans*. Ref: 660.

**18831 Ribalinium**

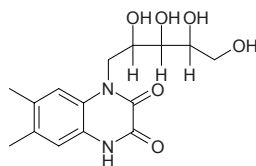
[6883-22-3] $C_{16}H_{20}NO_4$ (290.34). Pharm: Antibacterial (*Mycobacterium smegmatis*). Source: CHOU CAO *Ruta graveolens*. Ref: 6, 658.

**18832 Ribitol**

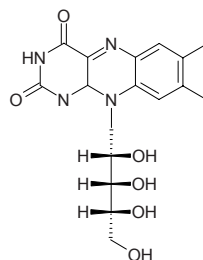
[488-81-3] $C_5H_{12}O_5$ (152.15). mp 102°C. Source: E SHEN *Anthriscus sylvestris*. Ref: 6.

**18833 1-Ribityl-2,3-diketo-1,2,3,4-tetrahydro-6,7-dimethyl-quinoxaline**

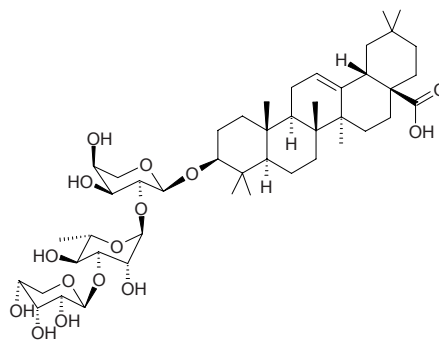
$C_{15}H_{20}N_2O_6$ (324.34). Colorless crystals, mp 259~261°C. Pharm: Antihypertensive (distinctly reduces blood pressure). Source: HONG HUA *Carthamus tinctorius*. Ref: 4580.

**18834 Riboflavine**

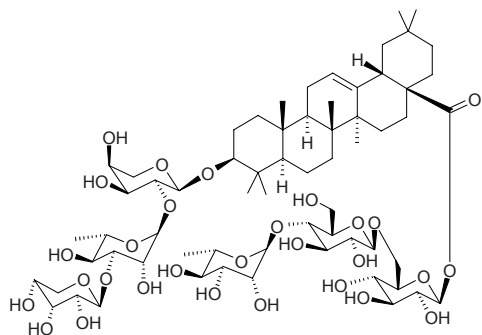
Vitamin B₂; Vitamin G; 7,8-Dimethyl-10-*D*-ribityl-isoalloxazine; 6,7-Dimethyl-9-*D*-ribitylisoalloxazine [83-88-5] $C_{17}H_{20}N_4O_6$ (376.38). mp 278~282°C. Pharm: Antineoplastic (rat, sarcoma 45); maintains normal vision; LD₅₀ (mus, ip) = 340mg/kg, (rat, ip) = 560mg/kg. Source: BAI GUO *Ginkgo biloba*, DA ZAO *Ziziphus jujuba*, GOU QI ZI *Lycium chinense*, LU GEN *Phragmites communis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SANG YE *Morus alba* (leaf: content scope of 8 origins = 0.00069%~0.0049%, mean content = 0.0016%)^[5508], WU CI ZAO *Ziziphus jujuba* var. *inermis*, ZANG HONG HUA *Crocus sativus*. Ref: 2, 5, 661, 658, 5508.

**18835 3β-[(O-β-D-Ribopyranosyl-(1→3)-O-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl)oxy]olean-12-en-28-oic acid**

$C_{46}H_{74}O_{15}$ (867.09). Pharm: Cytotoxic (*in vitro*, HL-60, IC₅₀ = 2.3 μmol/L). Source: WEI LING XIAN *Clematis chinensis* (root: yield = 0.0004%). Ref: 4763.

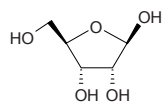


18836 3β-[(O-β-D-Ribopyranosyl-(1→3)-O-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl)oxy]olean-12-en-28-oic acid O-α-L-rhamnopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl ester
 $C_{64}H_{104}O_{29}$ (1337.53). Source: WEI LING XIAN *Clematis chinensis* (root: yield = 0.00064%). Ref: 4763.



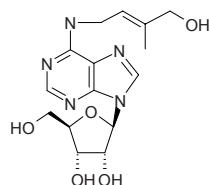
18837 Ribose

$C_5H_{10}O_5$ (150.13). mp (D) 86–87°C, 95°C. Source: FAN SHI LIU GAN *Psidium guajava*, DANG SHEN *Codonopsis pilosula*. Ref: 6, 660, 1521.



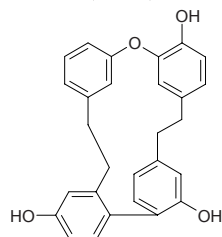
18838 9-Ribosylzeatin

$C_{15}H_{21}N_5O_5$ (351.37). Source: MI HOU TAO *Actinidia chinensis*. Ref: 660.



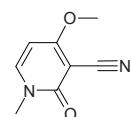
18839 Riccardin C

$C_{28}H_{24}O_4$ (424.50). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.



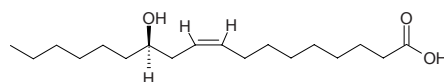
18840 Ricinine

Ricidine; 4-Methoxy-N-methyl-3-cyano-2-pyridone [524-40-3] $C_8H_8N_2O_2$ (164.17). Columnar crystals, (ethanol), mp 201.5°C, slightly soluble in water, ethanol, chloroform, ether, soluble in hot water.^[5507] Pharm: Toxin. Source: BI MA ZI *Ricinus communis*, BI MA YE *Ricinus communis*. Ref: 6, 658, 5507.



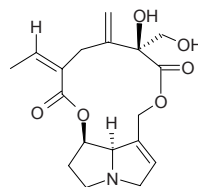
18841 Ricinoleic acid

(12*R*)-Hydroxy-*cis*-9-octadecenoic acid; Ricinolic acid [141-22-0] $C_{18}H_{34}O_3$ (298.47). mp 5.5°C, bp 245°C/10mmHg. Pharm: Contraceptive; herbicide; inhibits biosynthesis of cholesterol (*in vitro*); inhibits transport of gall; laxative. Source: BI MA ZI *Ricinus communis*, BI MA YOU *Ricinus communis*, LING ZHI *Ganoderma lucidum*. Ref: 4, 658.



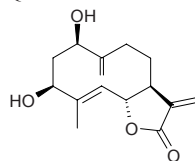
18842 Riddelline

[23246-96-0] $C_{18}H_{23}NO_6$ (349.39). Pharm: Anticholinergic; hepatotoxin. Source: AI JI QIAN LI GUANG *Senecio aegypticus*, OU ZHOU QIAN LI GUANG *Senecio vulgaris*, RUI DE QIAN LI GUANG *Senecio riddellii*, SHA SHENG QIAN LI GUANG *Senecio eremophilus*, SHU MA *Crotalaria juncea*, TUN CAO QIAN LI GUANG *Senecio ambrosioides*. Ref: 658.



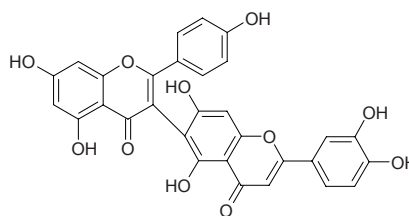
18843 Ridentin

[28148-84-7] $C_{15}H_{20}O_4$ (264.32). mp 215–218°C (dec). Pharm: Antineoplastic; cytotoxic. Source: AI YE *Artemisia argyi*, SAN CHI HAO *Artemisia tridentata*, QING AI *Artemisia cana*, SAN LIE HAO *Artemisia tripartita*. Ref: 6, 658.



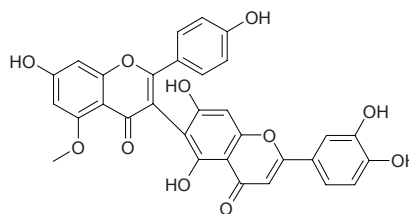
18844 Ridiculuflavone A

3''',4',4''',5,5'',7,7''-Heptahydroxy-3,6''-biflavone $C_{30}H_{18}O_{11}$ (554.47). Yellow solid, mp 230.5–232.2°C, $[\alpha]_D^{26} = +47.9^\circ$ ($c = 0.046$, MeOH). Source: *Aristolochia ridicula* (leaf). Ref: 5263.



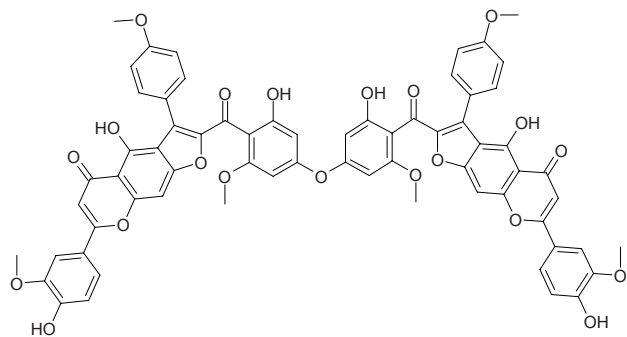
18845 Ridiculuflavone B

3''',4',4''',5'',7,7''-Hexahydroxy-5-methoxy-3,6''-biflavone $C_{31}H_{20}O_{11}$ (568.50). Yellow solid, mp 224.1–225.7°C, $[\alpha]_D^{25} = +18.2^\circ$ ($c = 0.10$, MeOH). Source: *Aristolochia ridicula* (leaf). Ref: 5263.

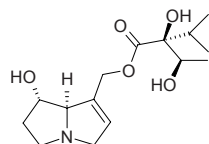


18846 RidiculoflavonylchalconeA

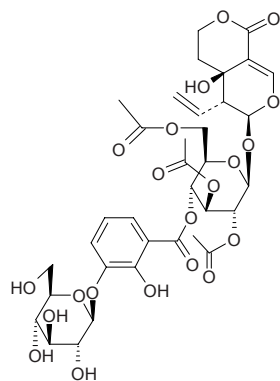
Oxy{bis[5''(4',5,7''-trihydroxy-3',4''-trimethoxy-7-O- α -6- β -flavone-chalcone e)]} C₆₆H₄₆O₂₁ (1175.09). Yellow solid, mp 153.6–156.5°C, [α]_D²⁸ = –30.8° (*c* = 0.088, MeOH). Source: *Aristolochia ridicula* (leaf). Ref: 5263.

**18847 Rinderine**

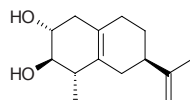
[6029-84-1] C₁₅H₂₅NO₅ (299.37). Pharm: Toxic (hepatic and pulmonary toxicity). Source: CHANG RUI LIU LI CAO *Solenanthes circinatus*, GAO ZE LAN *Eupatorium altissimum*, DA MA YE ZE LAN *Eupatorium cannabinum*. Ref: 658.

**18848 Rindoside**

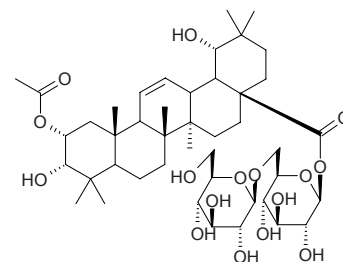
Gelidoside [128420-44-0] C₃₅H₄₂O₂₁ (798.71). Amorphous powder, [α]_D²⁰ = –149.5° (*c* = 0.4, MeOH). [α]_D²⁰ = –102.8° (MeOH). Source: LONG DAN *Gentiana scabra*. Ref: 2, 1521.

**18849 Rishitin**

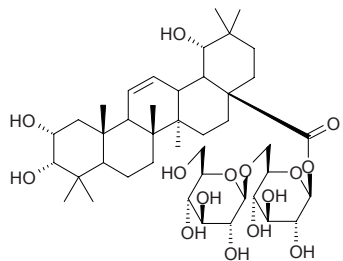
[18178-54-6] C₁₄H₂₂O₂ (222.33). Pharm: Antibacterial; antifungal; toxin (plants). Source: MA LING SHU *Solanum tuberosum*, YAN CAO *Nicotiana tabacum*. Ref: 658.

**18850 Rivaloside C**

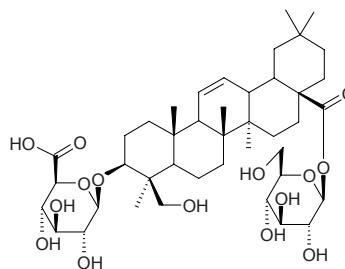
2 α -Acetoxy-3 α ,19 α -dihydroxy-olean-12-en-28-oic acid 28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₄₄H₇₀O₁₆ (855.04). Amorphous solid, [α]_D = –3.6° (*c* = 0.2, MeOH). Source: XI LIU ZHU YANG YANG *Galium rivale* (aerial parts). Ref: 3981.

**18851 Rivaloside D**

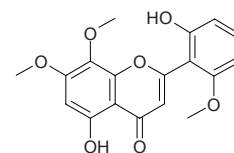
2 α ,3 α ,19 α -Trihydroxy-olean-12-en-28-oic acid 28-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside C₄₂H₆₈O₁₅ (813.00). Amorphous solid, [α]_D = –25.9° (*c* = 0.1, MeOH). Source: XI LIU ZHU YANG YANG *Galium rivale* (aerial parts). Ref: 3981.

**18852 Rivaloside E**

3-O- β -D-Glucuronosyl-24-hydroxy-olean-12-en-28-oic acid 28-O- β -D-glucopyranoside C₄₂H₆₆O₁₅ (810.99). Amorphous solid, [α]_D = –7.6° (*c* = 0.2, MeOH). Source: XI LIU ZHU YANG YANG *Galium rivale* (aerial parts). Ref: 3981.

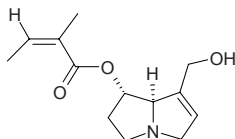
**18853 Rivularin**

C₁₈H₁₆O₇ (344.32). Source: BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*] (root). Ref: 660.

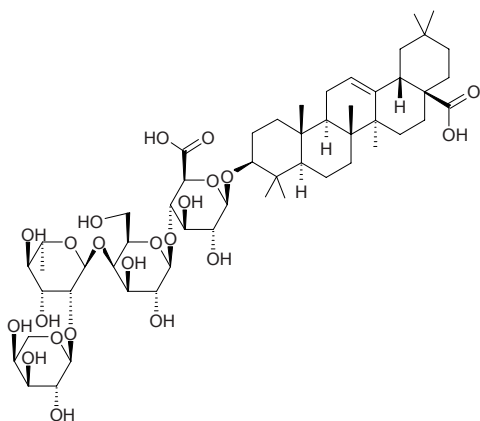


18854 Rivularine

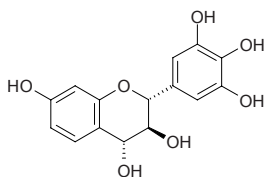
[723-78-4] $C_{13}H_{19}NO_3$ (237.30). **Pharm:** Hepatotoxin (sheep). **Source:** XI QIAN LI GUANG *Senecio rivularis*. **Ref:** 658.

**18855 Rivularinin**

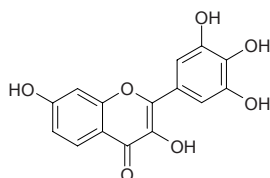
$C_{53}H_{84}O_{22}$ (1073.25). **Source:** HU ZHANG CAO *Anemone rivularis* (root). **Ref:** 660.

**18856 Robidandiol**

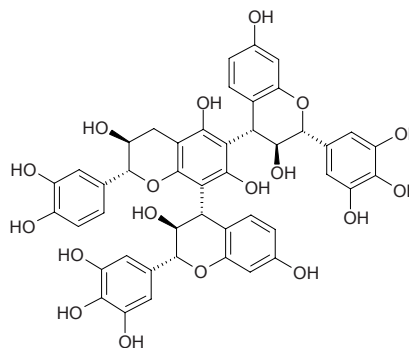
3,3',4,4',5',7-Hexahydroxyflavan [4382-45-0] $C_{15}H_{14}O_7$ (306.27). **Source:** A LA BO JIAO JIN HE HUAN *Acacia nilotica*. **Ref:** 5375.

**18857 Robinetin**

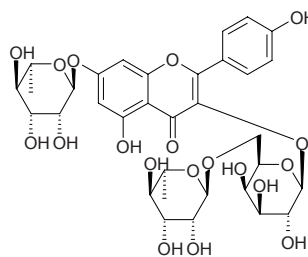
[490-31-3] $C_{15}H_{10}O_7$ (302.24). mp 325~330°C (dec). **Pharm:** Antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*). **Source:** CI HUI HUA *Robinia pseudoacacia*, DAN ZHONG ZAO JIA *Gleditsia monosperma*, HEI JING SHU *Acacia mearnsii*, JI CAI *Capsella bursa-pastoris*, SI TU JI XUE TENG *Milletia stuhlmannii*. **Ref:** 6, 658.

**18858 Robinetinidol-(4α→8)-catechin-(6→4α)-robinetinidol**

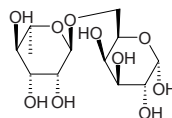
[85820-29-7] $C_{45}H_{38}O_{18}$ (866.79). **Pharm:** Tanning agent. **Source:** HEI JING SHU *Acacia mearnsii*. **Ref:** 658.

**18859 Robinin**

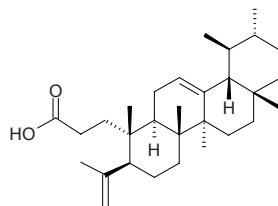
Kaempferol-3-*O*- α -L-rhamnopyranosyl-(1→6)- β -D-galactopyranosyl-7-*O*- α -L-rhamnopyranoside [301-19-9] $C_{33}H_{40}O_{19}$ (740.68). mp (α) 195~197°C (water), (β) 249~250°C (ethanol). **Pharm:** Antibacterial (*Pseudomonas maltophilia* and *Enteromorpha cloacae*); anti-inflammatory (rat, rbt); diuretic; LD (rat and mouse, ip) > 100mg/kg. **Source:** JIA DAN BAO JUN YANG HUI *Robinia pseudoacacia*, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], LIAN XING HUANG QI *Astragalus falcatus*, LUO FU MU *Rauvolfia verticillata*, LUO FU MU JING YE *Rauvolfia verticillata*, SI GUO HUANG QI *Astragalus shikokianus* (aerial parts), *Vigna* sp. **Ref:** 5, 6, 658, 3922.

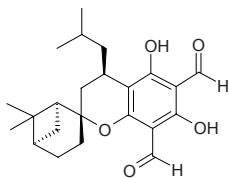
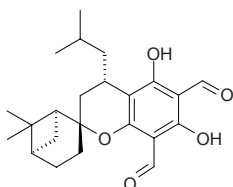
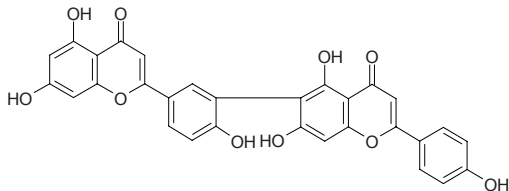
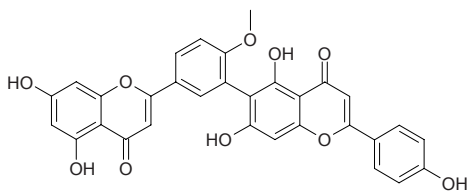
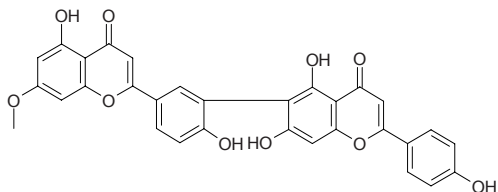
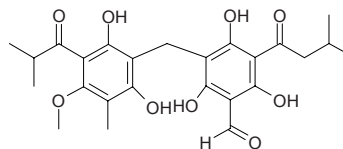
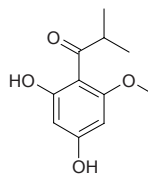
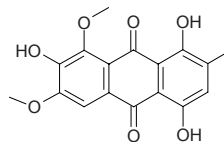
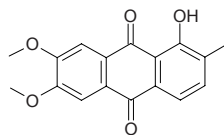
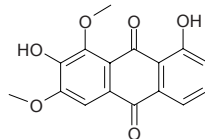
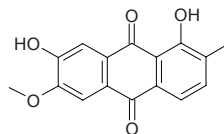
**18860 Robinobiose**

[17074-00-9] $C_{12}H_{22}O_{10}$ (326.30). **Source:** occurs in many plants (the sugar presents in various glycosides; esp. flavonoids). **Ref:** 660.

**18861 Roburic acid**

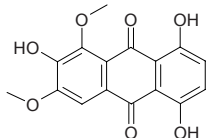
$C_{30}H_{48}O_2$ (440.72). **Source:** QIN JIAO *Gentiana macrophylla*. **Ref:** 660.



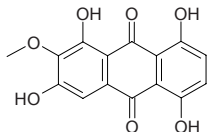
18862 Robustadial A[88130-99-8] C₂₃H₃₀O₅ (386.49). **Pharm:** Antimalarial (*Plasmodium berghei*).**Source:** DA YE AN YE *Eucalyptus robusta*. **Ref:** 658.**18863 Robustadial B**[88197-30-2] C₂₃H₃₀O₅ (386.48). **Source:** DA YE AN YE *Eucalyptus robusta*.**Ref:** 660.**18864 Robustaflavone**[49620-13-5] C₃₀H₁₈O₁₀ (538.47). **Pharm:** Cyclonucleotide phosphodiesteraseinhibitor. **Source:** JI MAO SONG *Podocarpus imbricatus*, *Araucaria* sp.,*Juniperus* sp., *Rhus* sp. **Ref:** 544, 658.**18865 Robustaflavone 4'-O-methyl ether**C₂₁H₂₂O₁₀ (552.50). Amorphous powder. **Source:** DA YE CAI *Selaginella**doederleinii*. **Ref:** 4567.**18866 Robustaflavone-7''-methyl ether**[136638-91-0] C₃₁H₂₀O₁₀ (552.50). **Pharm:** Cytotoxic (hmn, *in vitro*: BC-1 EC₅₀ = 3.3 μg/mL; HT1080 EC₅₀ = 0.9 μg/mL; Lu1 EC₅₀ = 0.4 μg/mL; Co1-2 EC₅₀ = 6.0 μg/mL; KB EC₅₀ = 3.6 μg/mL; drug-resistant KB+Vinblastine EC₅₀ = 8.9 μg/mL; drug-resistant KB EC₅₀ = 7.5 μg/mL; LNCaP EC₅₀ = 3.7 μg/mL; ZR-75-1 EC₅₀ = 1.4 μg/mL; U373 EC₅₀ = 0.7 μg/mL). **Source:** JI MAO SONG *Podocarpus imbricatus*. **Ref:** 544, 1811.**18867 Robustaol A**C₂₅H₃₀O₉ (474.52). Yellowish acicular crystals (petroleum ether), mp163–164°C. **Pharm:** Antimalarial (*Plasmodium berghei*). **Source:** DA YE ANYE *Eucalyptus robusta*, BO SHI AN *Eucalyptus berghei*. **Ref:** 658.**18868 Robustaol B**[102092-19-3] C₁₁H₁₄O₄ (210.23). Yellow acicular crystals, mp 138–142°C.**Pharm:** Antibacterial (*Staphylococcus aureus* and *Bacillus* sp., MIC = 63 μg/mL); Antiviral (HSV-1 virus and poliomyelitis 1, 5 μg/disk). **Source:** DAYE AN YE *Eucalyptus robusta*. **Ref:** 1067, 1181.**18869 Robustaquinone A**1,4,7-Trihydroxy-6,8-dimethoxy-1-methylantraquinone C₁₇H₁₄O₇ (330.30).**Source:** CU ZHUANG JIN JI NA *Cinchona robusta*. **Ref:** 2276.**18870 Robustaquinone B**1-Hydroxy-6,7-dimethoxy-2-methylantraquinone C₁₇H₁₄O₅ (298.30). **Source:**CU ZHUANG JIN JI NA *Cinchona robusta*. **Ref:** 2276.**18871 Robustaquinone C**2,8-Dihydroxy-1,3-dimethoxyanthraquinone C₁₆H₁₂O₆ (300.27). **Source:** CUZHUANG JIN JI NA *Cinchona robusta*. **Ref:** 2276.**18872 Robustaquinone D**1,7-Dihydroxy-6-methoxy-2-methylantraquinone C₁₆H₁₂O₅ (284.27). **Source:**CU ZHUANG JIN JI NA *Cinchona robusta*. **Ref:** 2276.

18873 Robustaquinone E

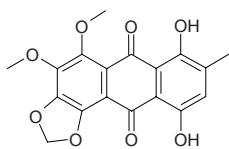
2,5,8-Trihydroxy-1,3-dimethoxyanthraquinone C₁₆H₁₂O₇ (316.27). [Source](#): CU ZHUANG JIN JI NA *Cinchona robusta*. [Ref](#): 2276.

**18874 Robustaquinone F**

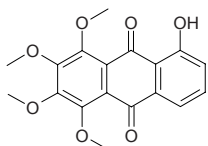
1,3,5,8-Tetrahydroxy-2-methoxyanthraquinone C₁₅H₁₀O₇ (302.24). [Source](#): CU ZHUANG JIN JI NA *Cinchona robusta*. [Ref](#): 2276.

**18875 Robustaquinone G**

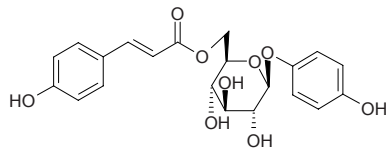
1,4-Dihydroxy-7,8-dimethoxy-2-methyl-5,6-methylenedioxyanthraquinone C₁₈H₁₄O₈ (358.31). [Source](#): CU ZHUANG JIN JI NA *Cinchona robusta*. [Ref](#): 2276.

**18876 Robustaquinone H**

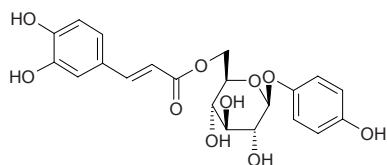
5-Hydroxy-1,2,3,4-tetramethoxyanthraquinone C₁₈H₁₆O₇ (344.32). [Source](#): CU ZHUANG JIN JI NA *Cinchona robusta*. [Ref](#): 2276.

**18877 Robustaside A**

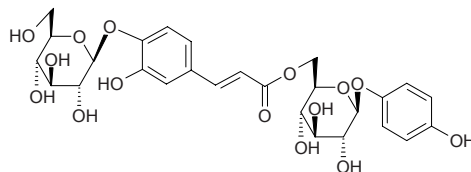
6'-(4"-Hydroxycinnamoyl)arbutin [148810-39-3] C₂₁H₂₂O₉ (418.40). Amorphous powder. $[\alpha]_D = -34.3^\circ$ ($c = 1.61$, MeOH). [Source](#): YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf), YIN HUA *Grevillea robusta*, YIN HUA *Grevillea robusta* (leaf). [Ref](#): 1521, 2583, 3905.

**18878 Robustaside B**

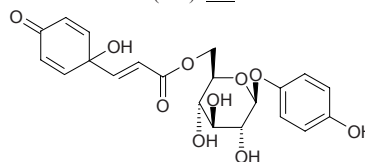
6'-(3",4"-Dihydroxycinnamoyl)arbutin C₂₁H₂₂O₁₀ (434.40). Amorphous powder. $[\alpha]_D = -49.9^\circ$ ($c = 6.95$, MeOH). [Source](#): YIN HUA *Grevillea robusta* (leaf). [Ref](#): 3905.

**18879 Robustaside C**

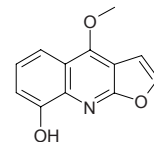
6'-(4"-O-β-Glucopyranosyl-3"-hydroxycinnamoyl)arbutin C₂₇H₃₂O₁₅ (596.55). Amorphous powder. $[\alpha]_D = -57.2^\circ$ ($c = 0.58$, MeOH). [Source](#): YIN HUA *Grevillea robusta* (leaf). [Ref](#): 3905.

**18880 Robustaside D**

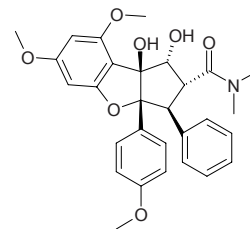
C₂₁H₂₂O₁₀ (434.40). Gum, $[\alpha]_D = -46.1^\circ$ ($c = 1.84$, EtOH). [Source](#): YIN HUA *Grevillea robusta* (leaf). [Ref](#): 3905.

**18881 Robustine**

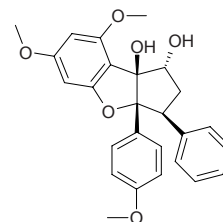
[2255-50-7] C₁₂H₉NO₃ (215.21). [Pharm](#): Potentiates hypnotic effect of barbiturates. [Source](#): GAO JIA SUO BAI XIAN *Dictamnus caucasicus*, FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. [Ref](#): 658.

**18882 Rocaglamide**

[84573-16-0] C₂₉H₃₁NO₇ (505.57). mp 129–130°C. [Pharm](#): Antineoplastic (leukemia); insecticidal. [Source](#): MI ZI LAN *Aglaia odorata*. [Ref](#): 1521.

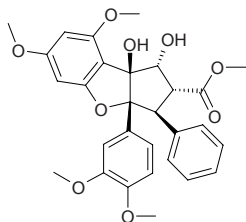
**18883 Rocaglamide derivative 1**

C₂₆H₂₆O₆ (434.49). [Pharm](#): Insecticidal (neonate larvae of *Spodoptera littoralis*, EC₅₀ = 0.80mg/L, LC₅₀ = 17.4mg/L; control Azadirachtin, EC₅₀ = 0.06mg/L, LC₅₀ = 0.7mg/L)^[3978]. [Source](#): MI ZI LAN *Aglaia odorata*, *Aglaia spectabilis* (bark), *Aglaia duperreana*. [Ref](#): 3978.

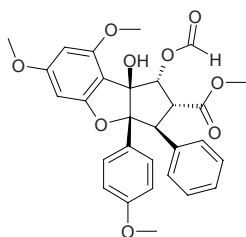


18884 Rocaglamide derivative 4

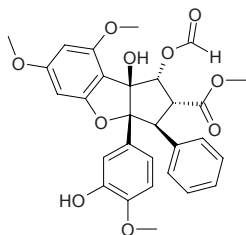
$C_{29}H_{30}O_9$ (522.56). $[\alpha]_D^{20} = -164.5^\circ$ ($c = 0.75$, EtOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.88\text{mg/L}$, $LC_{50} = 5.2\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** *Aglaia spectabilis* (bark). **Ref:** 3978.

**18885 Rocaglamide derivative 5**

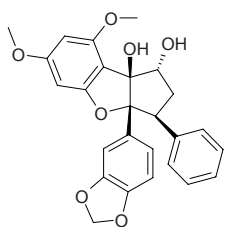
$C_{29}H_{28}O_9$ (520.54). $[\alpha]_D^{20} = -140.9^\circ$ ($c = 2.15$, EtOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.30\text{mg/L}$, $LC_{50} = 5.2\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** *Aglaia spectabilis* (bark). **Ref:** 3978.

**18886 Rocaglamide derivative 6**

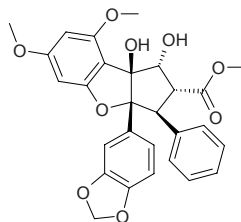
$C_{29}H_{28}O_{10}$ (536.54). $[\alpha]_D^{20} = -37.4^\circ$ ($c = 2.93$, EtOH). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.30\text{mg/L}$, $LC_{50} = 5.2\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** *Aglaia spectabilis* (bark). **Ref:** 3978.

**18887 Rocaglamide derivative 7**

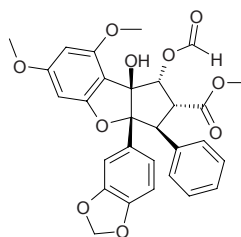
$C_{26}H_{24}O_7$ (448.48). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 4.10\text{mg/L}$, $LC_{50} > 80.0\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** TUE YUAN MI ZI LAN *Aglaia elliptica*, *Aglaia spectabilis* (bark). **Ref:** 3978.

**18888 Rocaglamide derivative 8**

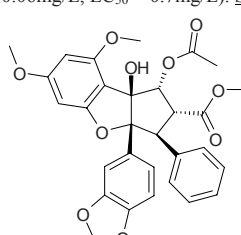
$C_{28}H_{26}O_9$ (506.51). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.69\text{mg/L}$, $LC_{50} = 7.7\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** TUE YUAN MI ZI LAN *Aglaia elliptica*, *Aglaia spectabilis* (bark). **Ref:** 3978.

**18889 Rocaglamide derivative 9**

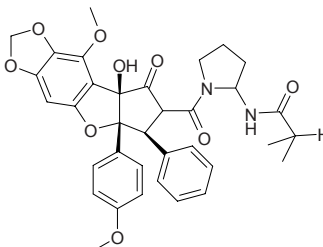
$C_{29}H_{26}O_{10}$ (534.52). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.27\text{mg/L}$, $LC_{50} = 5.6\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** TUE YUAN MI ZI LAN *Aglaia elliptica*, *Aglaia spectabilis* (bark). **Ref:** 3978.

**18890 Rocaglamide derivative 10**

$C_{30}H_{28}O_{10}$ (548.55). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.25\text{mg/L}$, $LC_{50} = 8.7\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** *Aglaia spectabilis* (bark). **Ref:** 3978.

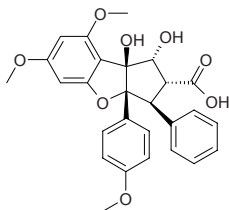
**18891 Rocaglamide derivative 11**

$C_{35}H_{36}N_2O_9$ (628.69). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, $EC_{50} = 0.99\text{mg/L}$, $LC_{50} = 6.5\text{mg/L}$, control Azadirachtin, $EC_{50} = 0.06\text{mg/L}$, $LC_{50} = 0.7\text{mg/L}$). **Source:** *Aglaia spectabilis* (bark), *Aglaia oligophylla*. **Ref:** 3978.

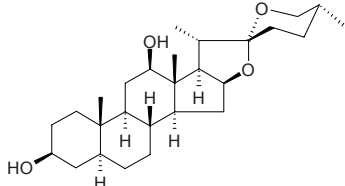


18892 Rocagloic acid

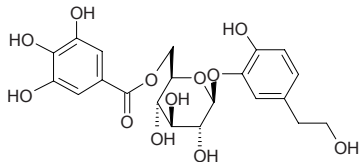
Ferrugin [143901-35-3] $C_{27}H_{26}O_8$ (478.50). White powder, mp 145~146°C, $[\alpha]_D^{22} = -47.6^\circ$ ($c = 0.02$, $CHCl_3$). **Pharm:** Cytotoxic (A549, $ED_{50} = 0.00074\mu g/mL$; HL-60, $ED_{50} = 0.00084\mu g/mL$; HT29, $ED_{50} = 0.00084\mu g/mL$; KB, $ED_{50} = 0.0023\mu g/mL$; P₃₈₈, $ED_{50} = 0.0012\mu g/mL$)^[3031]. **Source:** DA YE SHU LAN *Aglai elliptifolia* (leaf: yield = 0.00035%dw). **Ref:** 3031, 4046.

**18893 Rockogenin**

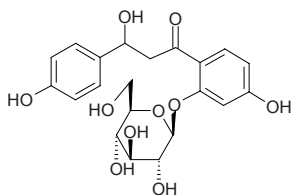
[16653-52-4] $C_{27}H_{44}O_4$ (432.65). mp 208~210°C (methanol), 217~220°C (ether). **Source:** DONG YI HAO JIAN MA *Agave east-one*, FAN MA *Agave americana*, JIAN MA *Agave sisalana*. **Ref:** 10.

**18894 Rocymosin A**

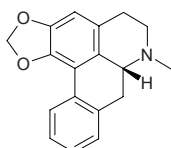
$C_{21}H_{24}O_{12}$ (468.42). **Source:** XIAO GUO QIANG WEI GEN *Rosa cymosa*. **Ref:** 660.

**18895 Rocymosin B**

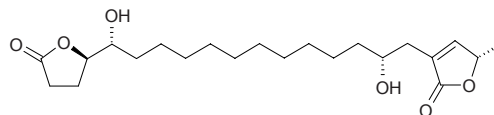
$C_{21}H_{24}O_{10}$ (436.42). **Source:** XIAO GUO QIANG WEI GEN *Rosa cymosa*. **Ref:** 660.

**18896 Roemerine**

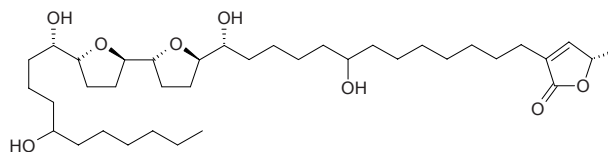
[548-08-3] $C_{18}H_{17}NO_2$ (279.34). mp 102~103°C. **Source:** HE YE *Nelumbo nucifera*, HE GENG *Nelumbo nucifera*, HE YE DI *Nelumbo nucifera*. **Ref:** 6.

**18897 Rollicosin**

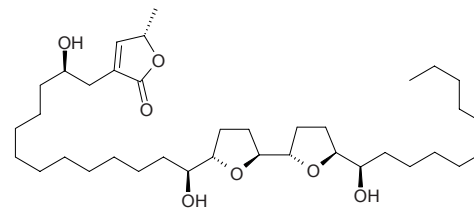
$C_{22}H_{36}O_6$ (396.53). White amorphous powder, $[\alpha]_D^{24} = -26^\circ$ ($c = 0.05$, $CHCl_3$). **Pharm:** Cytotoxic (HepG2, $IC_{50} = 0.10\mu g/mL$; Hep2,2,15, $IC_{50} = 0.021\mu g/mL$; control Adriamycin, $IC_{50} = 0.045\mu g/mL$; the first compound of this type to contain lactone moieties on both sides of the aliphatic chain and to lack either tetrahydrofuran or tetrahydropyran rings, may serve as a new prototype molecule to develop Annonaceous acetogenins as potential antitumor agents). **Source:** NIAN ZHI LUO LIN *Rollinia mucosa* (Fresh, unripe fruit: yield = 0.000018%fw). **Ref:** 4679.

**18898 Rollimusin**

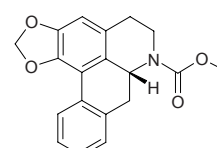
$C_{37}H_{66}O_8$ (638.93). Waxy solid, $[\alpha]_D^{25} = -7.8^\circ$ ($c = 0.55$, $CHCl_3$). **Pharm:** Cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.0215\mu g/mL$, control Adriamycin, $IC_{50} = 0.241\mu g/mL$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.00145\mu g/mL$, Adriamycin, $IC_{50} = 0.450\mu g/mL$). **Source:** CI GUO FAN LI ZHI *Annona muricata*. **Ref:** 5377.

**18899 Rolliniastatin 1**

[111056-97-4] $C_{37}H_{66}O_7$ (622.93). Oleaginous, mp 81~83°C (acetone), $[\alpha]_{589nm} = +25.2^\circ$, $[\alpha]_{578nm} = +26.2^\circ$, $[\alpha]_{546nm} = +30.1^\circ$, $[\alpha]_{436nm}^{28} = +48.5^\circ$, $[\alpha]_{365nm} = +76.7^\circ$ ($c = 1.03$, dichloromethane). **Pharm:** Antineoplastic (P₃₈₈, $ED_{50} = 0.045ng/mL$); cytotoxic (BST, $LD_{50} = 0.0049\mu g/mL$); larvicide (larva of *stegomyia calopus*, $LD_{50} = 0.2\mu g/mL$); mitochondrial complex I selective inhibitor (NADH oxidase $IC_{50} = (0.51\pm 0.03)nmol/L$, $p < 0.001$, control Rotenone, $IC_{50} = (5.10\pm 0.09)nmol/L$)^[5024]. **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed), NIU XIN FAN LI ZHI *Annona reticulata*. **Ref:** 900, 5024.

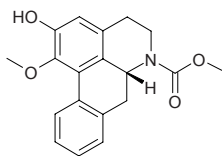
**18900 Romucosine**

$C_{19}H_{17}NO_4$ (323.35). **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521.

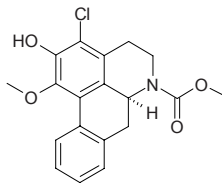


18901 Romucosine A

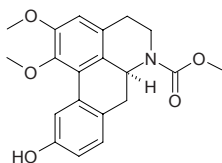
2-Hydroxy-1-methoxy-4,5,6a,7-tetrahydro-dibenzo[de,g]quinoline-6-carboxylic acidmethyl ester C₁₉H₁₉NO₄ (325.37). Brown amorphous powder, $[\alpha]_D^{25} = -105^\circ$ ($c = 0.1$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g: 0.1U/mL thrombin-induced, AggRt = (89.0 \pm 0.3)%, $p < 0.001$; 10 μ mol/L AA-induced, AggRt = (0.0 \pm 0.0)%, $p < 0.001$; 10 μ mol/L collagen-induced, AggRt = (15.7 \pm 5.2)%, $p < 0.001$; 2ng/mL PAF-induced, AggRt = (37.0 \pm 11.7)%, $p < 0.001$)^[5143]. **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521, 5143.

**18902 Romucosine B**

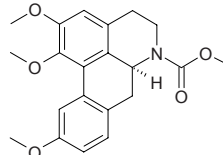
3-Chloro-2-hydroxy-4,5,6a,7-tetrahydro-dibenzo[de,g]quinoline-6-carboxylic acidmethyl ester C₁₉H₁₈ClNO₄ (359.81). White amorphous powder, $[\alpha]_D^{25} = +153^\circ$ ($c = 0.05$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g: 0.1U/mL thrombin-induced, AggRt = (89.0 \pm 0.3)%, $p < 0.001$; 10 μ mol/L AA-induced, AggRt = (75.2 \pm 3.2)%, $p < 0.05$; 10 μ mol/L collagen-induced, AggRt = (87.2 \pm 0.7)%, $p < 0.01$; 2ng/mL PAF-induced, AggRt = (88.3 \pm 0.9)%, $p < 0.05$)^[5143]. **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521, 5143.

**18903 Romucosine C**

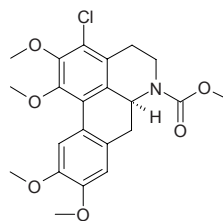
10-Hydroxy-1,2-dimethoxy-4,5,6a,7-tetrahydro-dibenzo[de,g]quinoline-6-carboxylic acidmethyl ester C₂₀H₂₁NO₅ (355.39). White amorphous powder, $[\alpha]_D^{25} = +140^\circ$ ($c = 0.05$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g: 0.1U/mL thrombin-induced, AggRt = (90.4 \pm 0.4)%, $p < 0.01$; 10 μ mol/L AA-induced, AggRt = (21.1 \pm 2.7)%, $p < 0.001$; 10 μ mol/L collagen-induced, AggRt = (62.5 \pm 7.9)%, $p < 0.05$; 2ng/mL PAF-induced, AggRt = (87.4 \pm 0.3)%, $p < 0.001$)^[5143]. **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521, 5143.

**18904 Romucosine D**

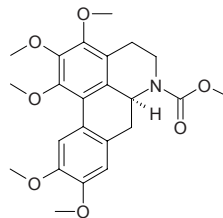
C₂₁H₂₃NO₅ (369.42). White amorphous powder, $[\alpha]_D^{25} = +145^\circ$ ($c = 0.05$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g: 0.1U/mL thrombin-induced, AggRt = (87.2 \pm 1.1)%, $p < 0.001$; 10 μ mol/L AA-induced, AggRt = (0.0 \pm 0.0)%, $p < 0.001$; 10 μ mol/L collagen-induced, AggRt = (0.0 \pm 0.0)%, $p < 0.001$; 2ng/mL PAF-induced, AggRt = (6.1 \pm 5.0)%, $p < 0.001$)^[5143]. **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521, 5143.

**18905 Romucosine F**

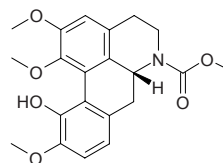
C₂₂H₂₄ClNO₆ (433.89). **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521.

**18906 Romucosine G**

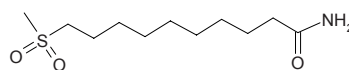
C₂₃H₂₇NO₇ (429.47). **Source:** NIAN ZHI LUO LIN *Rollinia mucosa*. **Ref:** 1521.

**18907 Romucosine H**

C₂₁H₂₃NO₆ (385.42). Brown amorphous powder, mp 230–233°C, $[\alpha]_D^{24} = -43^\circ$ ($c = 0.01$, CHCl₃). **Source:** MAO YE FAN LI ZHI *Annona cherimolia*. **Ref:** 751.

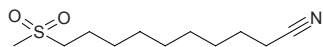
**18908 Rorifamide**

C₁₁H₂₃NO₃S (249.37). **Source:** HAN CAI *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dublium*]. **Ref:** 660.

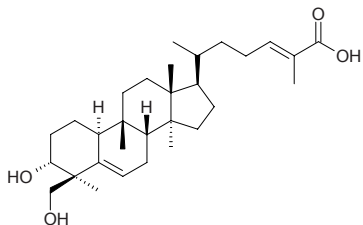


18909 Rorifone

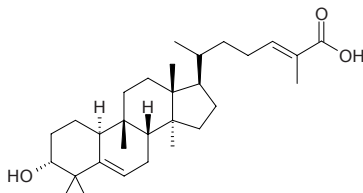
[53078-90-3] C₁₁H₂₁NO₂S (231.36). mp 40~46°C, bp 188~192°C/1mmHg. Source: HAN CAI *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dublium*]. Ref: 4.

**18910 Rosacea acid A**

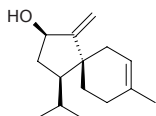
C₃₀H₄₈O₄ (472.71). White powder, mp 266~267°C (methanol), [α]_D¹⁸ = +16.8° (c = 0.05, pyridine). Source: KU HONG GU *Russula rosacea*. Ref: 289.

**18911 Rosacea acid B**

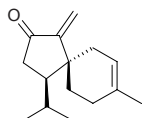
C₃₀H₄₈O₃ (456.72). White powder, mp 198~201°C (methanol), [α]_D¹⁸ = +16.6° (c = 0.10, pyridine). Source: KU HONG GU *Russula rosacea*. Ref: 289.

**18912 Rosacorenon**

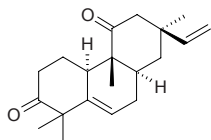
C₁₅H₂₄O (220.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**18913 Rosacorenone**

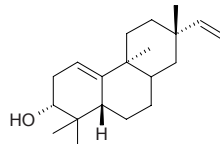
C₁₅H₂₂O (218.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**18914 5,15-Rosadiene-3,11-dione**

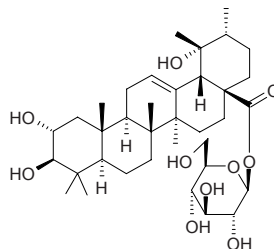
C₂₀H₂₈O₂ (300.44). Colorless oil, [α]_D²⁰ = +40.3° (c = 0.4, CHCl₃). Source: *Tylimanthus renifolius*. Ref: 3491.

**18915 (3R)-ent-1(10),15-Rosadien-3-ol**

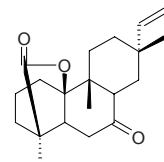
C₂₀H₃₂O (288.48). [α]_D²⁰ = +3.9° (c = 1.91, CHCl₃). Source: *Heteroscyphus billardieri*, *Plagiochila deltoidea*. Ref: 4284.

**18916 Rosamultin**

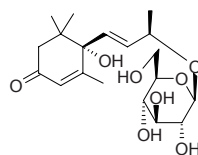
Tormentic acid β-D-glucopyranosyl ester; 2α,3β,19α-Trihydroxyurs-12-en-28-oic acid 28-β-D-glucopyranosyl ester [88515-58-6] C₃₆H₅₈O₁₀ (650.86). Pharm: Antihypercholesterolemic (mus, hyperlipemia caused by triton, reduces the level of cholesterol and triglyceride in serum); hemolytic; antiviral (*in vitro*); cytotoxic inactive (HSC-2, IC₅₀ > 200μg/mL; HGF, IC₅₀ > 200μg/mL)^[5160]. Source: DI YU *Sanguisorba officinalis*, JIN YING ZI *Rosa laevigata*, SHE MEI *Duchesnea indica*. Ref: 660, 1560, 1561, 5160.

**18917 Rosenonolactone**

C₂₀H₂₈O₃ (316.44). Crystals, mp 214°C, [α]_D²⁰ = -107.5° (c = 1.2, CHCl₃). Pharm: Prolyl endopeptidase inhibitor (flavobacterium origin, IC₅₀ = (675±0.03)μmol/L, control Z-pro-prolinal, IC₅₀ = (0.884±0.025)μmol/L)^[4179]; thrombin inhibitor (bovine source, IC₅₀ = (875±0.02)μmol/L control Leupeptin, IC₅₀ = (45.4±0.03)μmol/L)^[4179]. Source: JIA LIAN QIAO *Duranta repens* (whole herb). Ref: 4179, 1521.

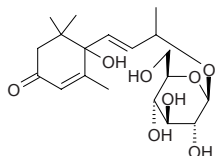
**18918 (6S,9R)-Roseoside**

[54835-70-0] C₁₉H₃₀O₈ (386.45). Amorphous powder, crystals (as tetra-Ac-compound), mp 153°C (tetra-Ac-compound), [α]_D = +62° (c = 0.8, CHCl₃, tetra-Ac-compound). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHA RU SHI WAN CUO *Asystasia intrusa*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0025%dw)^[4723], LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), PI PA YE *Eriobotrya japonica* (stem, leaf)^[3061], SANG YE *Morus alba* (leaf: yield = 0.0012%)^[3507], WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2, 660, 1521, 2589, 3061, 3507, 4527, 4723.

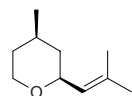


18919 Roseoside II

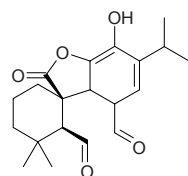
$C_{19}H_{30}O_8$ (386.45). Source: *Morus* sp. Ref: 2513.

**18920 Rose oxide**

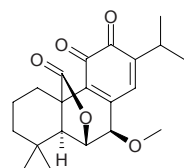
$C_{10}H_{18}O$ (154.25). Source: XIANG YE *Pelargonium graveolens*. Ref: 660.

**18921 Rosmadial**

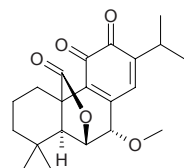
$C_{20}H_{26}O_5$ (346.43). Source: GAN XI SHU WEI CAO *Salvia przewalskii*, MI DIE XIANG *Rosmarinus officinalis*. Ref: 1521, 4538.

**18922 Rosmaquinone A**

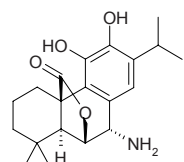
7β-Methoxyabieta-8,13-diene-11,12-dione-(20,6β)-olide $C_{21}H_{26}O_5$ (358.44). Reddish yellow oil, $[\alpha]_D^{25} = +3.2^\circ$ ($c = 0.08$, MeOH). Source: MI DIE XIANG *Rosmarinus officinalis* (aerial parts). Ref: 5306.

**18923 Rosmaquinone B**

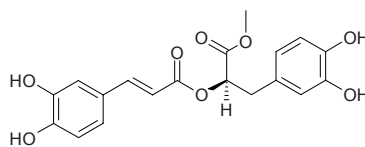
7α-Methoxyabieta-8,13-diene-11,12-dione-(20,6β)-olide $C_{21}H_{26}O_5$ (358.44). Reddish yellow oil, $[\alpha]_D^{25} = -6.1^\circ$ ($c = 0.05$, MeOH). Source: MI DIE XIANG *Rosmarinus officinalis* (aerial parts). Ref: 5306.

**18924 Rosmaricine**

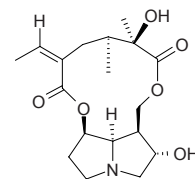
$C_{20}H_{27}NO_4$ (345.44). mp 199–200°C. Source: MI DIE XIANG *Rosmarinus officinalis*. Ref: 6.

**18925 Rosmarinic acid methyl ester**

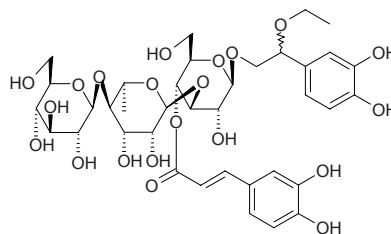
Methyl rosmarinate $C_{19}H_{18}O_8$ (374.35). Pharm: Antioxidant (DPPDPPH scavenger, $IC_{50} = 0.1456$ mmol/L, control Propyl gallate, $IC_{50} = 0.03$ mol/L; superoxide radical inhibitor, $IC_{50} = 0.443$ mmol/L, control Propyl gallate, $IC_{50} = 0.106$ mmol/L; iron chelating assay, $IC_{50} = 0.092$ mmol/L, control propyl gallate, $IC_{50} = 0.064$ mmol/L)^[4533]. Source: CHANG GUAN XIANG CHA CAI *Rabdosia longituba*, DAN SHEN *Salvia miltiorrhiza*, JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], MING XIAN HUA ZHU CHANG ZHU LIU LI CAO *Lindelofia stylosa* (aerial parts). Ref: 660, 1458, 1459, 4533.

**18926 Rosmarinine**

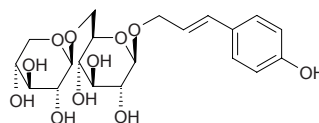
[520-65-0] $C_{18}H_{27}NO_6$ (353.42). Source: MI DIE XIANG YE QIAN LI GUANG *Senecio rosmarinifolius*. Ref: 658.

**18927 Rossicaside F**

2-(3,4-Dihydroxyphenyl)-*R,S*-2-ethoxy-ethyl-*O*-β-*D*-glucopyranosyl(1→4)-*L*-rhamnopyranosyl(1→3)(4-*O*-*trans*-caffeoyl)-β-*D*-glucopyranoside $C_{37}H_{50}O_{21}$ (830.80). Brown syrup, $[\alpha]_D^{23} = -70.9^\circ$ ($c = 0.79$, H₂O). Source: CAO CONG RONG *Boschniakia rossica* (whole herb: yield = 0.00036%). Ref: 1559.

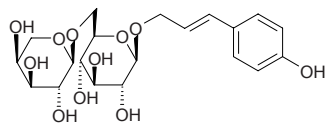
**18928 Rossicasin A**

trans-p-Coumaryl-(6'-*O*-β-*D*-xylopyranosyl)-*O*-β-*D*-glucopyranoside $C_{20}H_{28}O_{11}$ (444.44). Colorless needles (MeOH), mp 168–170°C, $[\alpha]_D^{23} = -92.5^\circ$ ($c = 0.4$, H₂O). Source: CAO CONG RONG *Boschniakia rossica* (whole herb: yield = 0.00068%). Ref: 1559.

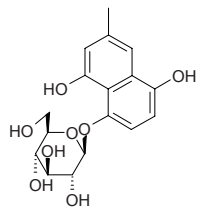


18929 Rossicasin B

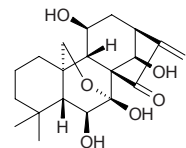
trans-p-Coumaryl-(6'-*O*- α -L-arabinopyranosyl)-*O*- β -D-glucopyranoside
 $C_{20}H_{28}O_{11}$ (444.44). Brown syrup, $[\alpha]_D^{23} = -51.7^\circ$ ($c = 0.29$, H_2O). Source:
 CAO CONG RONG *Boschniakia rossica* (whole herb: yield = 0.00014%).
Ref: 1559.

**18930 Rossoliside**

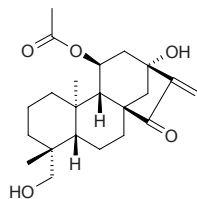
$C_{17}H_{20}O_8$ (352.34). Source: YUAN YE MAO GAO CAI *Drosera rotundifolia*.
Ref: 660.

**18931 Rosthorin A**

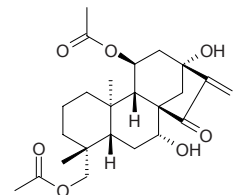
$C_{20}H_{28}O_6$ (364.44). mp 257~260°C, $[\alpha]_D^{16} = -87.9^\circ$ ($c = 0.38$, MeOH). Pharm:
 Cytotoxic (K562, $IC_{50} = 5.20\mu g/mL$, control Mitoxantrone, $IC_{50} = 0.29\mu g/mL$;
 HL-60, $IC_{50} > 1000\mu g/mL$, Mitoxantrone, $IC_{50} = 0.29\mu g/mL$; HCT, $IC_{50} =$
 13.69 $\mu g/mL$, Mitoxantrone, $IC_{50} = 1.54\mu g/mL$; MKN28, $IC_{50} = 0.92\mu g/mL$,
 Mitoxantrone, $IC_{50} = 0.02\mu g/mL$)^[5182]. Source: YING HUA XIANG CHA
 CAI *Isodon rosthornii*, HAN SHENG XIANG CHA CAI *Isodon xerophilus*
 (leaf). Ref: 4067, 5182.

**18932 Rosthornin A (Isodopharin C)**

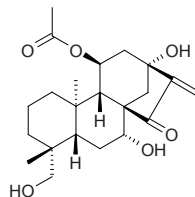
$C_{22}H_{32}O_5$ (376.50). mp 168~170°C, $[\alpha]_D^{21} = -150.98^\circ$ ($c = 0.51$, $CHCl_3$).
Source: YING HUA XIANG CHA CAI *Isodon rosthornii*. Ref: 4067.

**18933 Rosthornin B**

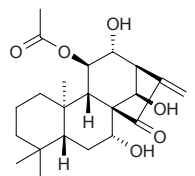
$C_{24}H_{34}O_7$ (434.53). mp 147~149°C, $[\alpha]_D^{25} = -156.3^\circ$ ($c = 0.56$, MeOH).
Source: YING HUA XIANG CHA CAI *Isodon rosthornii*. Ref: 4067.

**18934 Rosthornin C**

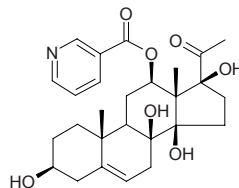
$C_{22}H_{32}O_6$ (392.50). mp 174~176°C. Source: YING HUA XIANG CHA CAI
Isodon rosthornii. Ref: 4067.

**18935 Rosthornin D**

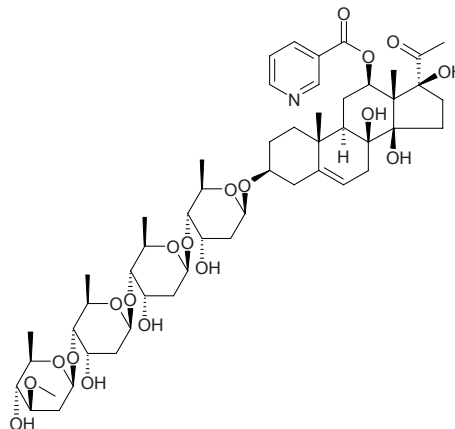
$C_{22}H_{32}O_6$ (392.50). mp 152~154°C. Source: YING HUA XIANG CHA CAI
Isodon rosthornii. Ref: 4067.

**18936 Rostratamine**

$C_{27}H_{35}NO_7$ (485.58). Source: DUAN JIE SHEN *Cynanchum wallichii*, QING
 YANG SHEN *Cynanchum otophyllum*. Ref: 660.

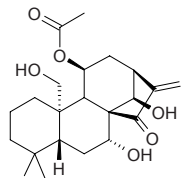
**18937 Rostratamine 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside**

$C_{52}H_{77}NO_{19}$ (1020.19). Amorphous powder, $[\alpha]_D^{24} = -4.6^\circ$ ($c = 0.61$, MeOH).
Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

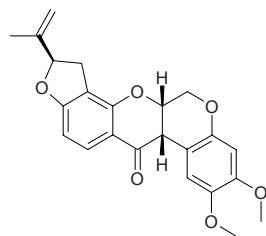


18938 Rostronol F

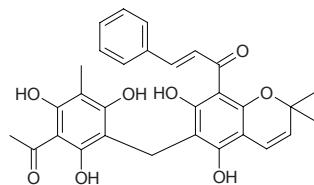
$C_{22}H_{32}O_6$ (392.50). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

**18939 Rotenone**

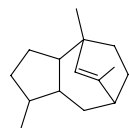
[83-79-4] $C_{23}H_{22}O_6$ (394.43). mp (-) 163°C. Pharm: Mitochondrial respiratory chain complex I inhibitor ($IC_{50} = (5.10 \pm 0.90) \text{ nmol/L}$)^[4954]; NADH oxidase inhibitor (submitochondrial particles from bovine heart, $IC_{50} = (0.0051 \pm 0.0009) \mu\text{mol/L}$)^[5356]; mitochondrial complex I selective inhibitor (NADH oxidase, $IC_{50} = (5.10 \pm 0.09) \text{ nmol/L}$)^[5024]; antiprotozoal; piscicide (adult zebra fishes *Brachydanio rerio*, $LC_{100} = 1.0 \mu\text{g/mL}$, time = 20~30min)^[5393]; pesticide; anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100(mol ratio/32pmol TPA), EBV-EA positive cells = 69.2% viability, positive control β -Carotene, EBV-EA positive cells = 82.7% viability)^[4982]; LD (dog, iv) = 0.5mg/kg; LD₅₀ (mus, ip) = 2.8mg/kg. Source: DI GUA ZI *Pachyrhizus erosus*, DOU SHU *Pachyrhizus erosus* (seed), HUI YE GEN *Tephrosia purpurea*, JI XUE TENG GEN *Millettia reticulata*, KU TAN ZI *Millettia pachycarpa*, MAO RUI HUA *Verbascum thapsus*, MAO YU TENG *Derris elliptica*, YU TENG *Derris trifoliata*, YU TENG *Derris trifoliata* (stem). Ref: 6, 658, 4180, 4954, 4982, 5024, 5356, 5393.

**18940 Rottlerin**

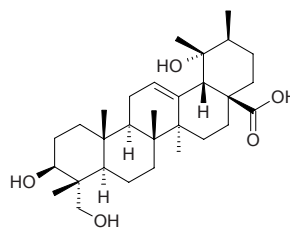
[82-08-6] $C_{30}H_{28}O_8$ (516.55). mp 212°C. Pharm: Anthelmintic (veterinary); toxin; used in clinical treatment of cancer. Source: LV SONG QIU MAO *Mallotus philippinensis*. Ref: 6, 658.

**18941 Rotundene**

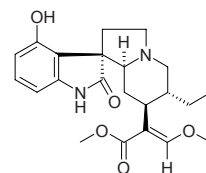
$C_{15}H_{24}$ (204.36). Source: KAN MAI NIANG ZHUANG SHA CAO *Cyperus alopecuroides* (essential oil). Ref: 5129.

**18942 Rotundic acid**

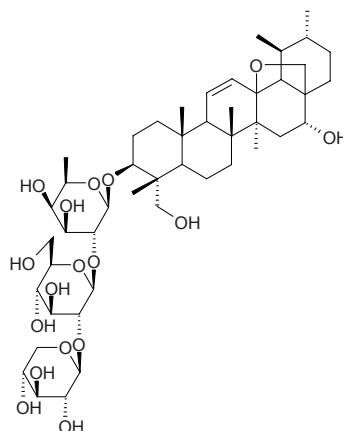
[20137-37-5] $C_{30}H_{48}O_5$ (488.71). Source: JIU BI YING *Ilex rotunda*, SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*]. Ref: 6, 527.

**18943 Rotundifoline**

[6883-25-6] $C_{22}H_{28}N_2O_5$ (400.48). mp 238~240°C. Source: BI LU GOU TENG *Uncaria tomentosa*, ER CHA GOU TENG *Uncaria gambir*, HOU YE GOU TENG *Uncaria callophylla*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*. Ref: 6, 5341.

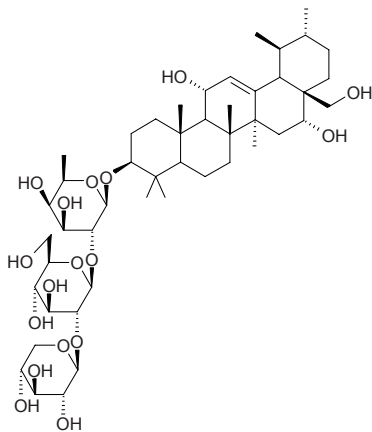
**18944 Rotundifolioside A**

13 β ,28-Epoxy-16 α ,23-dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside $C_{47}H_{76}O_{17}$ (913.12). White powder, $[\alpha]_D^{24} = -62.0^\circ$ ($c = 0.18$, pyridine). Pharm: Cytotoxic (antiproliferative activity *in vitro*, MTT assay, hmn MK1, $GI_{50} = 48 \mu\text{mol/L}$; hmn HeLa, $GI_{50} = 71 \mu\text{mol/L}$; murine B16F10, $GI_{50} = 31 \mu\text{mol/L}$). Source: YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). Ref: 4331.

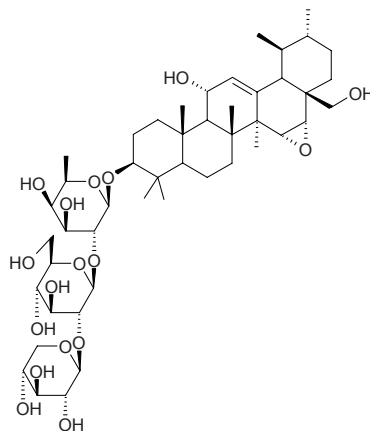


18945 Rotundifolioside B

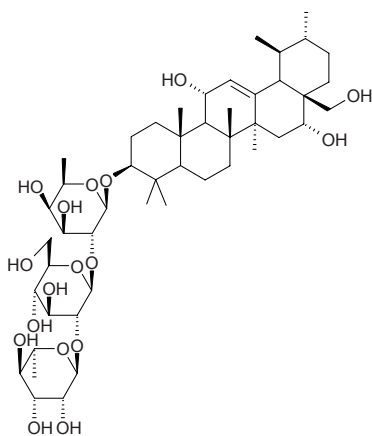
11 α ,16 α ,28-Trihydroxyurs-12-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₇H₇₈O₁₇ (915.14). White powder, $[\alpha]_D^{24} = -60.5^\circ$ ($c = 0.62$, pyridine). **Pharm:** Cytotoxic inactive (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ > 100 μ g/mL; hmn HeLa, GI₅₀ > 100 μ g/mL; murine B16F10, GI₅₀ > 100 μ g/mL). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18947 Rotundifolioside D**

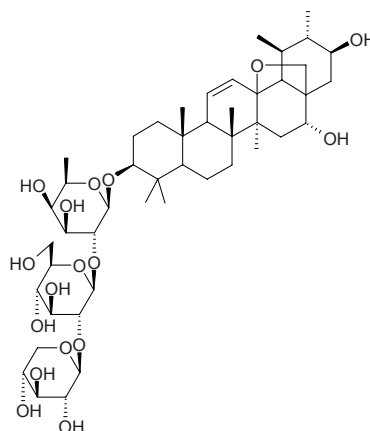
15 α ,16 α -Epoxy-11 α ,28-dihydroxyurs-12-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₇H₇₆O₁₇ (913.12). White powder, $[\alpha]_D^{24} = -40.4^\circ$ ($c = 1.11$, pyridine). **Pharm:** Cytotoxic inactive (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ > 100 μ g/mL; hmn HeLa, GI₅₀ > 100 μ g/mL; murine B16F10, GI₅₀ > 100 μ g/mL). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18946 Rotundifolioside C**

11 α ,16 α ,28-Trihydroxyurs-12-en-3 β -yl α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₈H₈₀O₁₇ (929.16). White powder, $[\alpha]_D^{24} = -93.0^\circ$ ($c = 0.29$, pyridine). **Pharm:** Cytotoxic inactive (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ > 100 μ g/mL; hmn HeLa, GI₅₀ > 100 μ g/mL; murine B16F10, GI₅₀ > 100 μ g/mL). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

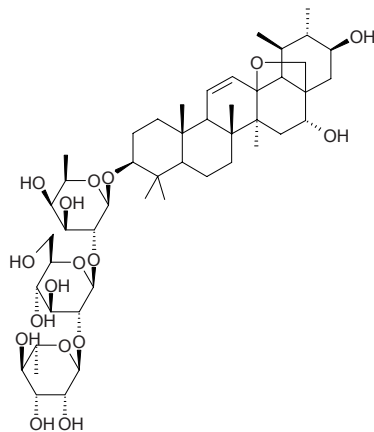
**18948 Rotundifolioside E**

13 β ,28-Epoxy-16 α ,21 β -dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₇H₇₆O₁₇ (913.12). White powder, $[\alpha]_D^{24} = -16.8^\circ$ ($c = 0.59$, pyridine). **Pharm:** Cytotoxic inactive (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ > 100 μ g/mL; hmn HeLa, GI₅₀ > 100 μ g/mL; murine B16F10, GI₅₀ > 100 μ g/mL). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

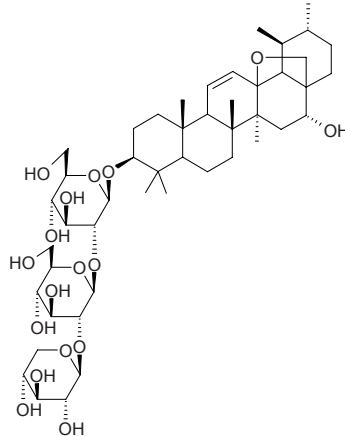


18949 Rotundifolioside F

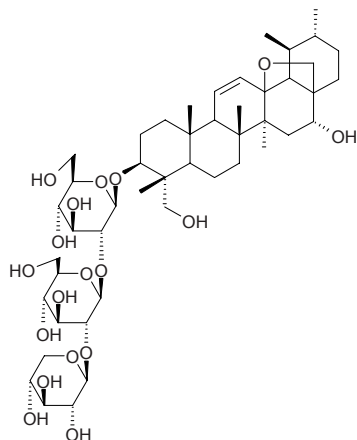
13 β ,28-Epoxy-16 α ,21 β -dihydroxyurs-11-en-3 β -yl α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₈H₇₈O₁₇ (927.15). White powder, $[\alpha]_D^{24} = -12.9^\circ$ ($c = 0.47$, pyridine). **Pharm:** Cytotoxic inactive (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ > 100 μ g/mL, hmn HeLa, GI₅₀ > 100 μ g/mL, murine B16F10, GI₅₀ > 100 μ g/mL). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18951 Rotundifolioside H**

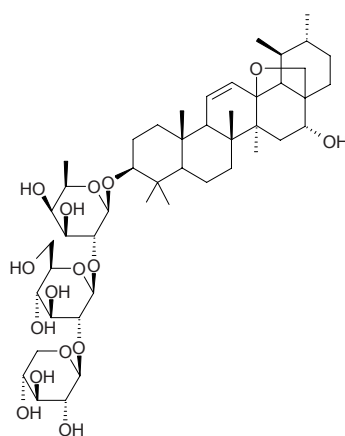
13 β ,28-Epoxy-16 α -hydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside C₄₇H₇₆O₁₇ (913.12). White powder, $[\alpha]_D^{24} = -9.4^\circ$ ($c = 0.64$, pyridine). **Pharm:** Cytotoxic (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ = 18 μ mol/L, hmn HeLa, GI₅₀ = 31 μ mol/L, murine B16F10, GI₅₀ = 18 μ mol/L). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18950 Rotundifolioside G**

13 β ,28-Epoxy-16 α ,23-dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside C₄₇H₇₆O₁₈ (929.12). White powder, $[\alpha]_D^{24} = +3.8^\circ$ ($c = 0.90$, pyridine). **Pharm:** Cytotoxic (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ = 84 μ mol/L; hmn HeLa, GI₅₀ > 100 μ g/mL; murine B16F10, GI₅₀ = 46 μ mol/L). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

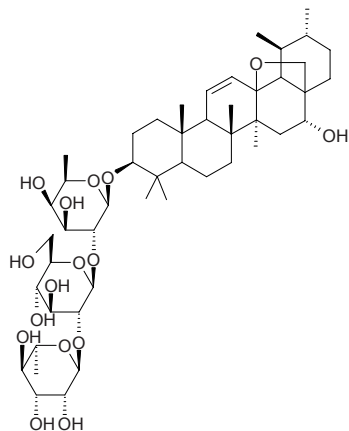
**18952 Rotundifolioside I**

13 β ,28-Epoxy-16 α -hydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₇H₇₆O₁₆ (897.12). White powder, $[\alpha]_D^{24} = -10.1^\circ$ ($c = 0.99$, pyridine). **Pharm:** Cytotoxic (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ = 20 μ mol/L; hmn HeLa, GI₅₀ = 37 μ mol/L; murine B16F10, GI₅₀ = 18 μ mol/L). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

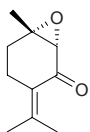


18953 Rotundifolioside J

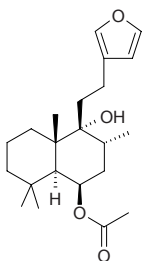
13 β ,28-Epoxy-16 α -hydroxyurs-11-en-3 β -yl α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fucopyranoside C₄₈H₇₈O₁₆ (911.15). White powder, $[\alpha]_D^{24} = +31.3^\circ$ ($c = 1.00$, pyridine). **Pharm:** Cytotoxic (antiproliferative activity *in vitro*, MTT assay, hmn MK1, GI₅₀ = 16 μ mol/L; hmn HeLa, GI₅₀ = 21 μ mol/L; murine B16F10, GI₅₀ = 11 μ mol/L). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18954 Rotundifolone**

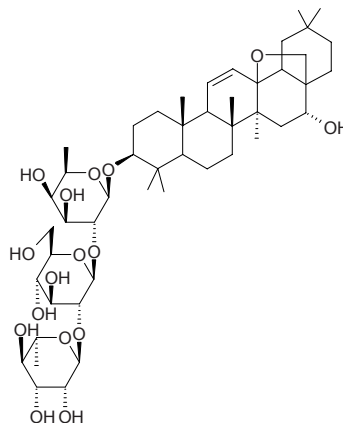
Piperitene oxide [5945-46-0] C₁₀H₁₄O₂ (166.22). Crystals, mp 27.5°C, bp 86°C/1mmHg, $[\alpha]_D^{10} = +166.5^\circ$ (MeOH). **Source:** YU XIANG CAO *Mentha rotundifolia*, *Mentha* spp. **Ref:** 6, 2674, 3105.

**18955 Rotundifuran**

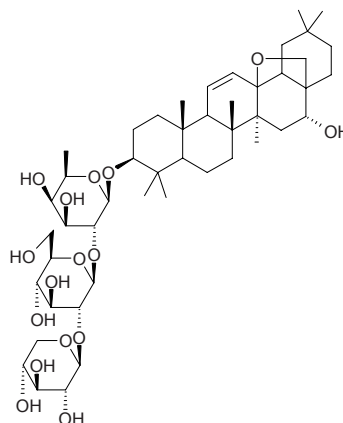
[50656-65-0] C₂₂H₃₄O₄ (362.51). **Source:** MAN JING ZI *Vitex trifolia*. **Ref:** 746.

**18956 Rotundioside F**

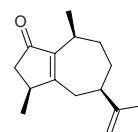
C₄₈H₇₈O₁₆ (911.15). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18957 Rotundioside G**

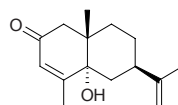
C₄₇H₇₆O₁₆ (897.12). **Source:** YUAN YE CHAI HU *Bupleurum rotundifolium* (fruit). **Ref:** 4331.

**18958 Rotundone**

[18374-76-0] C₁₅H₂₂O (218.34). bp 128–129°C/1mm **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 6.

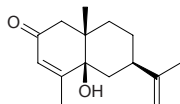
**18959 alpha-Rotunol**

[24405-56-9] C₁₅H₂₂O₂ (234.34). mp (α) 87.5–88.5°C **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 6.

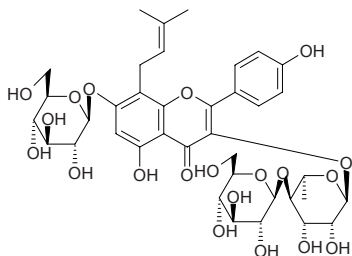


18960 β -Rotunol

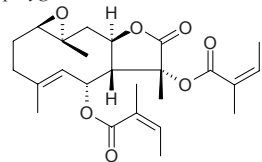
[24405-57-0] $C_{15}H_{22}O_2$ (234.34). mp (β) 118~119°C. Source: XIANG FU *Cyperus rotundus*. Ref: 6.

**18961 Rouhuoside**

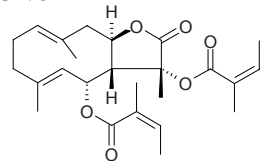
[131862-37-8] $C_{38}H_{48}O_{20}$ (824.71). Source: WU SHAN YIN YANG HUO *Epimedium wushanense*, ROU MAO YIN YANG HUO *Epimedium pubescens*. Ref: 2, 660.

**18962 Rouyolide A**

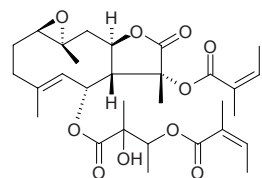
$C_{25}H_{34}O_7$ (446.55). Oil, $[\alpha]_D^{25} = +75.3^\circ$ ($c = 0.473$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18963 Rouyolide B**

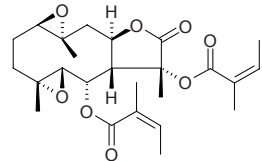
$C_{25}H_{34}O_6$ (430.55). Oil, $[\alpha]_D^{25} = +57.3^\circ$ ($c = 0.041$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18964 Rouyolide C**

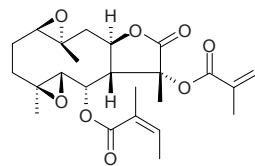
$C_{30}H_{42}O_{10}$ (562.66). Oil, $[\alpha]_D^{25} = +141.4^\circ$ ($c = 0.082$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18965 Rouyolide D**

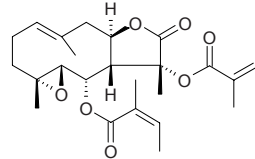
$C_{25}H_{34}O_8$ (462.54). Oil, $[\alpha]_D^{25} = +16.6^\circ$ ($c = 0.042$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18966 Rouyolide E**

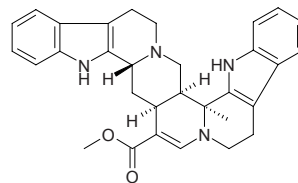
$C_{25}H_{34}O_8$ (462.54). Oil, $[\alpha]_D^{25} = +2.95^\circ$ ($c = 0.206$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18967 Rouyolide F**

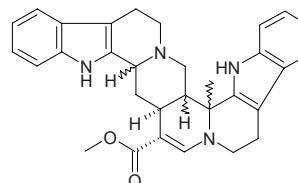
$C_{25}H_{34}O_7$ (446.55). Oil, $[\alpha]_D^{25} = +85.5^\circ$ ($c = 110$, $CHCl_3$). Source: *Rouya polygama*. Ref: 3414.

**18968 Roxburghine**

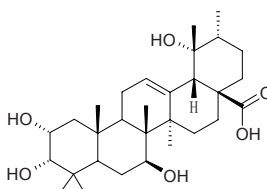
$C_{31}H_{32}N_4O_2$ (492.63). Source: ER CHA GOU TENG *Uncaria gambir*. Ref: 660.

**18969 Roxburghine X**

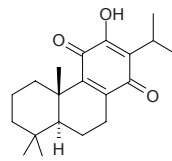
$C_{31}H_{32}N_4O_2$ (492.63). Source: TUO YUAN GOU TENG *Uncaria elliptica*. Ref: 5341.

**18970 Roxburic acid**

2 β ,3 β ,7 β ,19 α -Tetrahydroxyurs-12-en-28-oic acid [108657-25-6] $C_{30}H_{48}O_6$ (504.71). White amorphous powder, mp 292°C (dec), $[\alpha]_D^{18} = 0^\circ$ ($c = 0.1550$, pyridine). Source: CI LI *Rosa roxburghii*. Ref: 74.

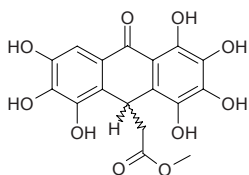
**18971 Royleanone**

$C_{20}H_{28}O_3$ (316.44). Source: XI MA XUAN FU HUA *Inula royleana*, XIN XI LAN LUO HAN SONG *Podocarpus ferrugineus*. Ref: 1521.

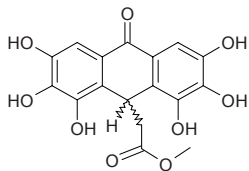


18972 Rubanthrone A

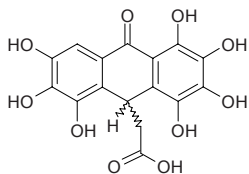
$C_{17}H_{14}O_{10}$ (378.30). $[\alpha]_D = +6.1^\circ$ ($c = 0.09$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus*, EC = 4.5mg/mL). **Source:** YU YE MAO MEI *Rubus ulmifolius*. **Ref:** 2017.

**18973 Rubanthrone B**

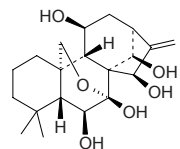
$C_{17}H_{14}O_9$ (362.30). **Source:** YU YE MAO MEI *Rubus ulmifolius*. **Ref:** 2010.

**18974 Rubanthrone C**

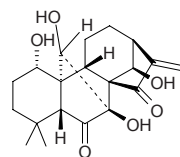
$C_{16}H_{12}O_{10}$ (364.27). $[\alpha]_D = +2.1^\circ$ ($c = 0.05$, MeOH). **Source:** YU YE MAO MEI *Rubus ulmifolius*. **Ref:** 2010.

**18975 Rubescensin C**

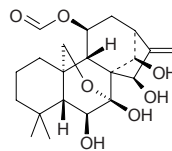
[81661-34-9] $C_{20}H_{30}O_6$ (366.46). Crystals (MeOH), mp 239–241°C, $[\alpha]_D^{25} = -68.6^\circ$ ($c = 0.14$, pyridine). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 2087, 4067.

**18976 Rubescensin D**

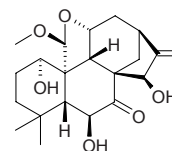
$C_{20}H_{26}O_6$ (362.43). mp 264–266°C, $[\alpha]_D^{20} = -57.2^\circ$ ($c = 0.236$, C_5H_5N). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4067.

**18977 Rubescensin H**

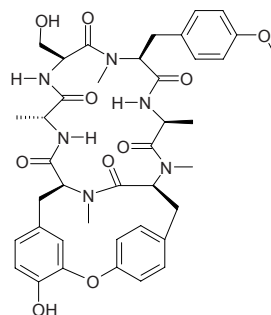
6 β ,7 β ,14 β ,15 R -Tetrahydroxy-11 β -O-formyl-7 α ,20-epoxy-ent-kaur-16-ene $C_{21}H_{30}O_7$ (394.47). Colorless crystals mp 140–142°C, $[\alpha]_D^{28} = 11.9^\circ$ ($c = 0.1265$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 879.

**18978 Rubescensin W**

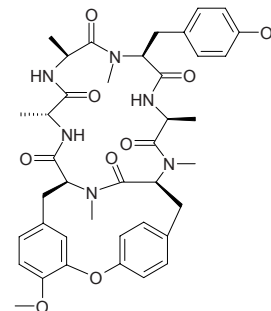
$C_{21}H_{30}O_6$ (378.47). Colorless cubes, $[\alpha]_D^{26.9} = +57.69^\circ$ ($c = 0.34$, MeOH). **Pharm:** Cytotoxic inactive (K562 cells, $IC_{50} = 38.96\mu\text{g/mL}$, positive control *cis*-Platinum, $IC_{50} = 1.14\mu\text{g/mL}$). **Source:** MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. **Ref:** 4998.

**18979 Rubia akane RA-I**

$C_{40}H_{48}N_6O_{10}$ (772.86). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660.

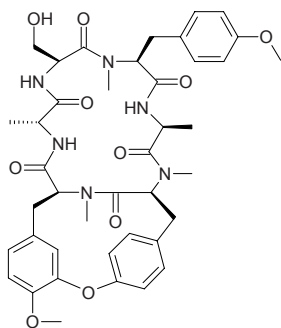
**18980 Rubia akane RA-II**

$C_{40}H_{48}N_6O_9$ (756.89). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660.

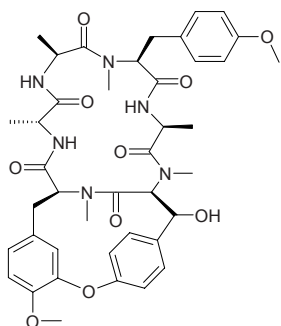


18981 Rubia akane RA-III

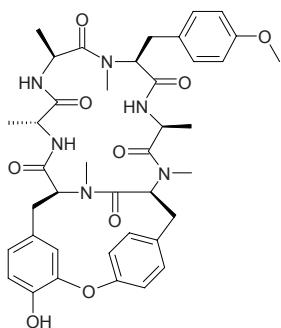
$C_{41}H_{50}N_6O_{10}$ (786.89). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18982 Rubia akane RA-IV**

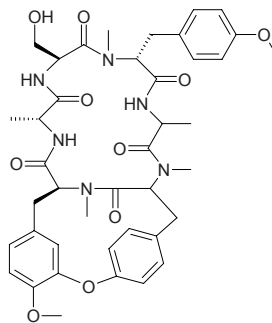
$C_{41}H_{50}N_6O_{10}$ (786.89). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18983 Rubia akane RA-V**

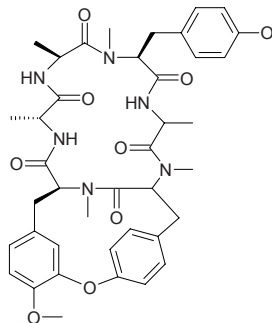
$C_{40}H_{48}N_6O_9$ (756.86). Pharm: Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $0.03\mu\text{mol/L}$, InRt = $(77.1\pm 1.9)\%$, $IC_{50} = 0.015\mu\text{mol/L}$, control Herbimycin A, $IC_{50} = 0.094\mu\text{mol/L}$); β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, InRt = $(1.2\pm 2.5)\%$)^[4347]. Source: QIAN CAO GEN *Rubia cordifolia*, XIAO HONG SHEN *Rubia yunnanensis* (root). Ref: 660, 4347.

**18984 Rubia akane RA-VI**

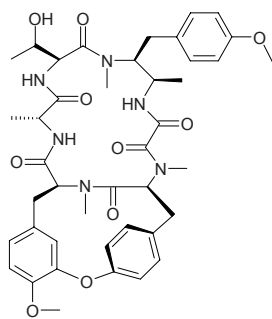
$C_{41}H_{50}N_6O_{10}$ (786.89). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18985 Rubia akane RA-VII**

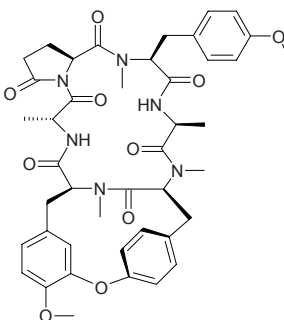
$C_{41}H_{50}N_6O_9$ (770.89). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18986 Rubia akane RA-VIII**

$C_{42}H_{52}N_6O_{10}$ (800.92). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

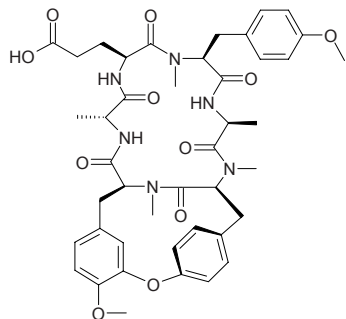
**18987 Rubia akane RA-IX**

$C_{43}H_{50}N_6O_{10}$ (810.91). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

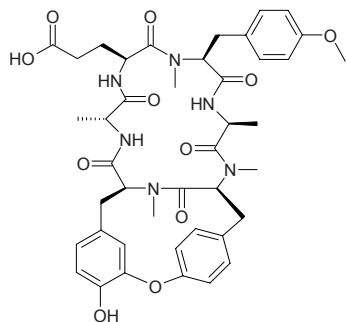


18988 Rubia akane RA-X

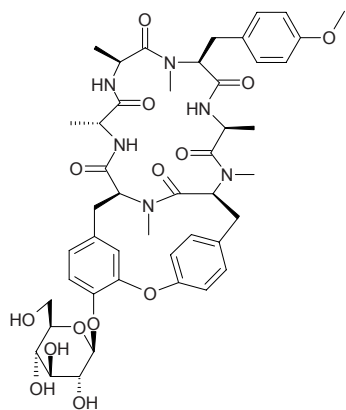
$C_{43}H_{52}N_6O_{11}$ (828.93). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18989 Rubia akane RA-XI**

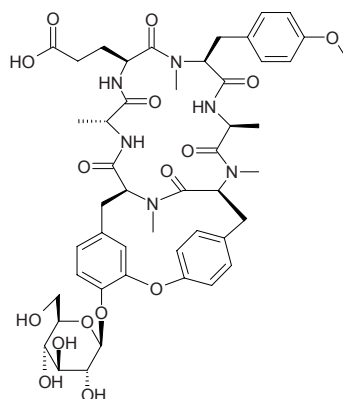
$C_{42}H_{50}N_6O_{11}$ (814.90). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18990 Rubia akane RA-XII**

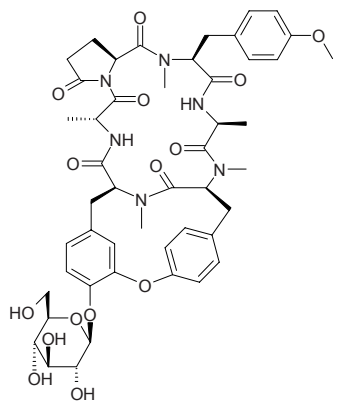
$C_{46}H_{58}N_6O_{14}$ (919.01). Pharm: Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $1\mu\text{mol/L}$, $\text{InRt} = (54.0 \pm 4.2)\%$, $\text{IC}_{50} = 0.85\mu\text{mol/L}$, control *L*-NMMA, $\text{IC}_{50} = 57\mu\text{mol/L}$); β -hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (35.7 \pm 4.0)\%$, $p < 0.01$)^[4347]. Source: QIAN CAO GEN *Rubia cordifolia*, XIAO HONG SHEN *Rubia yunnanensis* (root). Ref: 660, 4347.

**18991 Rubia akane RA-XIII**

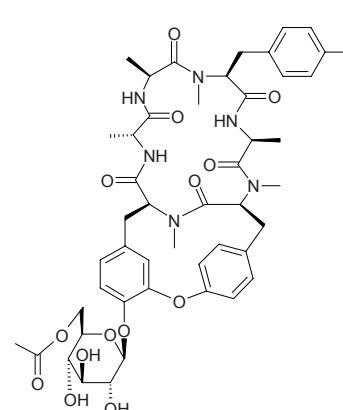
$C_{48}H_{60}N_6O_{16}$ (977.04). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**18992 Rubia akane RA-XIV**

$C_{48}H_{58}N_6O_{15}$ (959.03). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

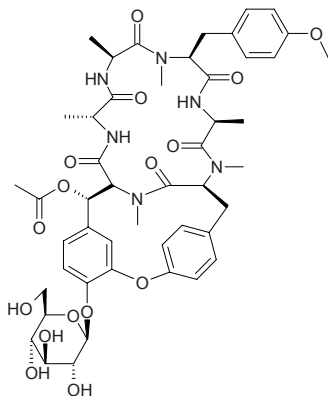
**18993 Rubia akane RA-XV**

$C_{48}H_{60}N_6O_{15}$ (961.04). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

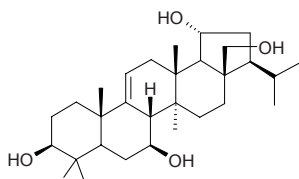


18994 Rubia akane RA-XVI

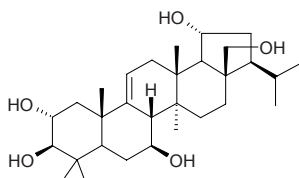
[150373-89-0] C₄₈H₆₀N₆O₁₆ (977.04). Acicular crystals, mp 220°C (dec), [α]_D = -179.7° (c = 0.06, methanol). **Pharm:** Cytotoxic (P₃₈₈, ED₅₀ = 1.5 μg/mL). **Source:** QIAN CAO GEN *Rubia cordifolia* (root: yield = 0.0000036%dw). **Ref:** 660, 1105.

**18995 Rubiarbonol A**

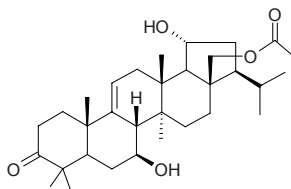
C₃₀H₅₀O₄ (474.73). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 4.2%, -4.2%, 2.9%, 86.3%, respectively; control *L*-NMMA, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (1.2 ± 2.3)%)^[4347]; platelet aggregation promoter or inhibitor (a promoter at low concentration of 30.9 μg/mL; a inhibitor at high concentration, 100 μmol/L AA induced: control AggRt = 87.1%, 100 μmol/L, AggRt = 83.8%; 10 μg/mL collagen induced: control AggRt = 91.0%, 100 μmol/L, AggRt = 89.6%; 0.1 U/mL thrombin induced: control AggRt = 91.7%, 100 μmol/L, AggRt = 90.7%; 2 ng/mL PAF induced: control AggRt = 92.6%, 100 μmol/L, AggRt = 91.3%)^[4646]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.011%dw)^[4691]. **Ref:** 4347, 4691, 4646.

**18996 Rubiarbonol F**

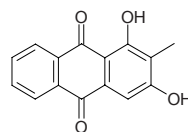
C₃₀H₅₀O₅ (490.73). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 7.9%, 15.4%, 22%, 60%, respectively; control *L*-NMMA, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β-hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (42.5 ± 2.9)%, *p* < 0.01)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0020%dw)^[4691]. **Ref:** 4347, 4691, 4646.

**18997 Rubiarbonone C'**

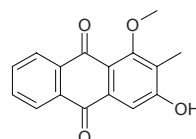
C₃₂H₅₀O₅ (514.75). **Pharm:** β-Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (15.1 ± 4.5)%). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**18998 Rubiadin**

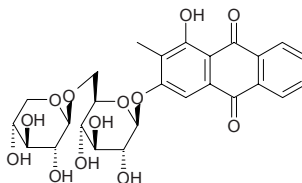
[117-02-2] C₁₅H₁₀O₄ (254.24). mp 270~271°C. **Pharm:** Cytotoxic (KB, ED₅₀ > 25 μg/mL, control Doxorubicin, ED₅₀ = 0.12 μg/mL; Hep3B, ED₅₀ > 25 μg/mL, control Doxorubicin, ED₅₀ = 0.14 μg/mL; Colon205, ED₅₀ > 25 μg/mL, control Doxorubicin, ED₅₀ = 0.10 μg/mL; HeLa, ED₅₀ > 25 μg/mL, control Doxorubicin, ED₅₀ = 0.11 μg/mL)^[4369]. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), TU LIAN QIAO *Hymenodictyon excelsum*, YANG JIAO TENG *Morinda umbellata*. **Ref:** 6, 4369.

**18999 Rubiadin-1-methyl ether**

C₁₆H₁₂O₄ (268.27). mp 291°C. **Source:** TU LIAN QIAO *Hymenodictyon excelsum*, YANG JIAO TENG *Morinda umbellata*. **Ref:** 6.

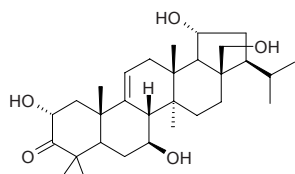
**19000 Rubiadin primeveroside**

C₂₆H₂₈O₁₃ (548.51). mp 248~250°C. **Source:** GUANG JING QIAN CAO *Rubia wallichiana* (stem), PENG ZI CAI *Galium verum*. **Ref:** 6, 4369.

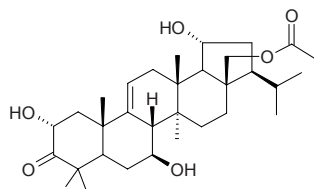


19001 Rubianol A

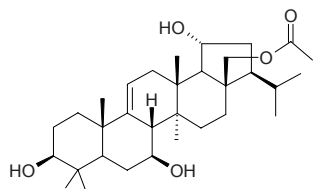
$C_{30}H_{48}O_5$ (488.71). White powder, $[\alpha]_D^{25} = +10.0^\circ$ ($c = 0.30$, MeOH). **Pharm:** β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(5.8 \pm 5.2)\%$)^[4347]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = -10.3%, 2.1%, 1.8%, 40.3%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0039%dw). **Ref:** 4347, 4691.

**19002 Rubianol B**

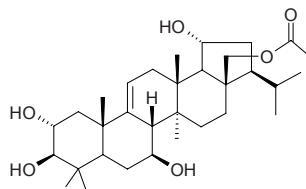
$C_{32}H_{50}O_6$ (530.75). **Pharm:** β -Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(1.9 \pm 7.3)\%$)^[4347]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = -1.5%, 0.0%, -5.8%, 15.4%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0011%dw). **Ref:** 4347, 4691.

**19003 Rubianol C**

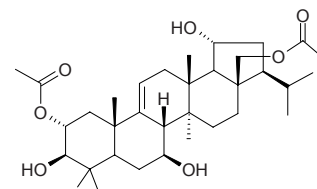
$C_{32}H_{52}O_5$ (516.77). White powder, $[\alpha]_D^{25} = +36.4^\circ$ ($c = 0.10$, MeOH). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 11.1%, 4.7%, -7.4%, 25.5%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(0.3 \pm 5.9)\%$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0092%dw)^[4691]. **Ref:** 4347, 4691.

**19004 Rubianol D**

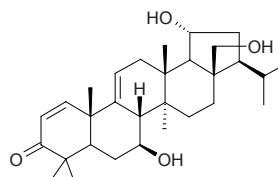
$C_{32}H_{52}O_6$ (532.77). White powder, $[\alpha]_D^{25} = +63.6^\circ$ ($c = 0.10$, MeOH). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 5.3%, 4.3%, -11.1%, 76.5%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β -hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(39.7 \pm 2.4)\%$, $p < 0.01$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0041%dw)^[4691]. **Ref:** 4347, 4691.

**19005 Rubianol E**

$C_{34}H_{54}O_7$ (574.81). White powder, $[\alpha]_D^{25} = +18.1^\circ$ ($c = 0.10$, MeOH). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 21.3%, -12%, -7.9%, 77.1%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β -hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(17.5 \pm 4.7)\%$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0053%dw)^[4691]. **Ref:** 4347, 4691.

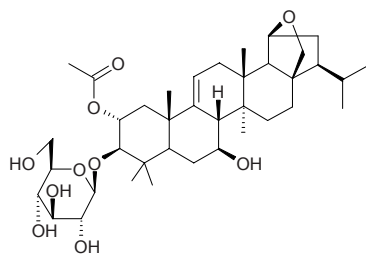
**19006 Rubianol G**

$C_{30}H_{46}O_4$ (470.70). White powder, $[\alpha]_D^{25} = +206.1^\circ$ ($c = 0.10$, MeOH). **Pharm:** Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = $(70.5 \pm 3.4)\%$, $IC_{50} = 70 \mu$ mol/L, control *L*-NMMA, $IC_{50} = 57 \mu$ mol/L); β -hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = $(21.4 \pm 3.4)\%$, $p < 0.01$). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

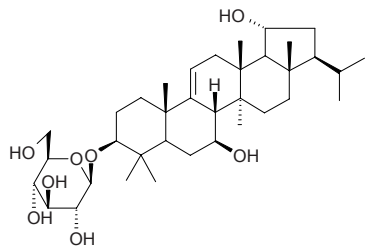


19007 Rubianoside I

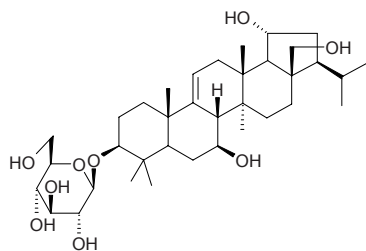
$C_{38}H_{60}O_{10}$ (676.90). White powder, $[\alpha]_D^{25} = +10.9^\circ$ ($c = 0.10$, MeOH). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, $3\mu\text{mol/L}$, $10\mu\text{mol/L}$, $30\mu\text{mol/L}$, $100\mu\text{mol/L}$, InRt = -0.3% , -8% , 1.5% , -3.2% , respectively; control *L*-NMMA, $3\mu\text{mol/L}$, $10\mu\text{mol/L}$, $30\mu\text{mol/L}$, $100\mu\text{mol/L}$, InRt = 10.3% , 15% , 34.1% , 63.1% , respectively)^[4691]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, InRt = $(4.4\pm 1.6)\%$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root; yield = 0.0018% dw)^[4691]. **Ref:** 4347, 4691.

**19008 Rubianoside II**

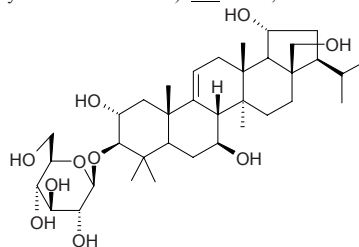
$C_{36}H_{60}O_8$ (620.87). White powder, $[\alpha]_D^{25} = +2.2^\circ$ ($c = 0.20$, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**19009 Rubianoside III**

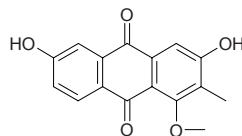
$C_{36}H_{60}O_9$ (636.87). White powder, $[\alpha]_D^{25} = +3.5^\circ$ ($c = 0.10$, MeOH). **Pharm:** Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $3\mu\text{mol/L}$, InRt = $(10.3\pm 9.4)\%$, control *L*-NMMA, $IC_{50} = 57\mu\text{mol/L}$); β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, InRt = $(-2.9\pm 3.5)\%$). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**19010 Rubianoside IV**

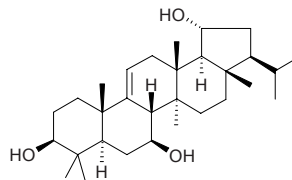
Rubiarboside F $C_{36}H_{60}O_{10}$ (652.87). Colorless powder (MeOH), mp $294\text{--}295^\circ\text{C}$, $[\alpha]_D = +98.1^\circ$ ($c = 0.05$, MeOH); white powder, $[\alpha]_D^{25} = +90.5^\circ$ ($c = 0.10$, MeOH). **Pharm:** Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $3\mu\text{mol/L}$, InRt = $(10.2\pm 5.3)\%$, control *L*-NMMA, $IC_{50} = 57\mu\text{mol/L}$)^[4347]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, InRt = $(-3.4\pm 3.6)\%$)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root; yield = 0.00013% dw). **Ref:** 4347, 4646.

**19011 Rubianthraquinone**

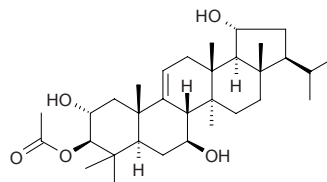
$C_{16}H_{12}O_5$ (284.27). Yellow powder. **Pharm:** Anti-inflammatory (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, $100\mu\text{mol/L}$, InRt = $(38.5\pm 2.1)\%$, control *L*-NMMA, $IC_{50} = 57\mu\text{mol/L}$); β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, $100\mu\text{mol/L}$, InRt = $(4.4\pm 1.5)\%$). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**19012 Rubiarbonol B**

$C_{30}H_{50}O_3$ (458.73). **Pharm:** Platelet aggregation inhibitor ($100\mu\text{mol/L}$ AA induced: control AggRt = 87.1% , $150\mu\text{mol/L}$, AggRt = 80.4% , $p < 0.01$; $10\mu\text{g/mL}$ collagen induced: control AggRt = 91.0% , $100\mu\text{mol/L}$, AggRt = 82.2% , $p < 0.01$, $150\mu\text{mol/L}$, AggRt = 79.8% , $p < 0.01$; 0.1U/mL thrombin induced: control AggRt = 91.7% , $150\mu\text{mol/L}$, AggRt = 89.6% , $p < 0.01$; 2ng/mL PAF induced: control AggRt = 92.6% , $150\mu\text{mol/L}$, AggRt = 90.4% , $p < 0.05$). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root; yield = 0.000071% dw). **Ref:** 4646.

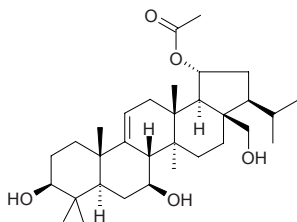
**19013 Rubiarbonol D**

$C_{32}H_{52}O_5$ (516.77). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660.

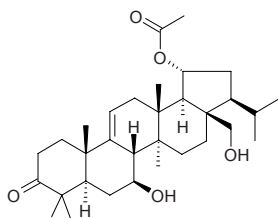


19014 Rubiarbonol G

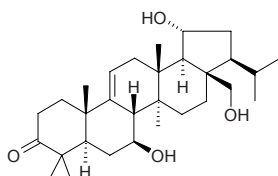
$C_{32}H_{52}O_5$ (516.77). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.000071%dw). **Ref:** 4646.

**19015 Rubiarbonone A**

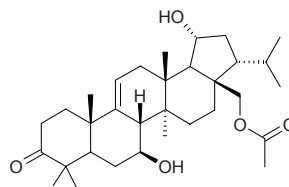
$C_{32}H_{50}O_5$ (514.75). **Pharm:** Platelet aggregation promoter or inhibitor (a promoter at low concentration of 28.4 μ g/mL; a inhibitor at high concentration, 100 μ mol/L AA induced: control AggRt = 87.1%, 100 μ mol/L, AggRt = 85.4%; 10 μ g/mL collagen induced: control AggRt = 91.0%, 100 μ mol/L, AggRt = 88.1%; 0.1U/mL thrombin induced: control AggRt = 91.7%, 100 μ mol/L, AggRt = 91.1%; 2ng/mL PAF induced: control AggRt = 92.6%, 100 μ mol/L, AggRt = 90.3%). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.00012%dw). **Ref:** 4646.

**19016 Rubiarbonone B**

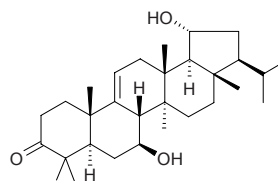
$C_{30}H_{48}O_4$ (472.71). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = -9.7%, -13.7%, 16.9%, 19.7%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (5.2 \pm 11.2)%^[4347]). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.00024%–0.0041%dw). **Ref:** 4347, 4646, 4691.

**19017 Rubiarbonone C**

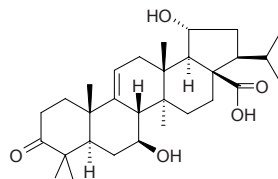
$C_{32}H_{55}O_5$ (514.75). **Pharm:** NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 3.7%, -2.3%, 8%, 90.3%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.012%dw). **Ref:** 4691.

**19018 Rubiarbonone D**

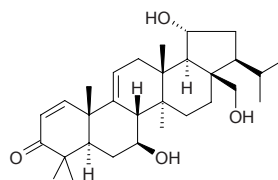
7 β ,19 α -Dihydroxyarbor-9(11)-en-3-one $C_{30}H_{48}O_3$ (456.72). Colorless needles (CHCl₃), mp 231–232°C, [α]_D = +94.4° (*c* = 0.03, CHCl₃). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.000076%dw). **Ref:** 4646.

**19019 Rubiarbonone F**

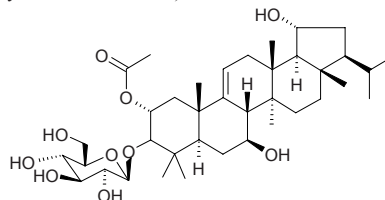
28-Carboxy-7 β ,19 α -dihydroxyarbor-9(11)-en-3-one $C_{30}H_{46}O_5$ (486.7). Colorless needles (MeOH), mp 253–254°C, [α]_D = +26.4° (*c* = 0.06, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.00006%dw). **Ref:** 4646.

**19020 Rubiarbonone E**

$C_{30}H_{46}O_4$ (470.70). Colorless powder (MeOH), mp 258–259°C, [α]_D = +233.4° (*c* = 0.03, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.000071%dw). **Ref:** 4646.

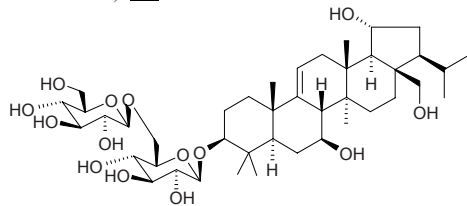
**19021 Rubiarboside A**

$C_{38}H_{62}O_{10}$ (678.91). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.00036%dw). **Ref:** 4646.

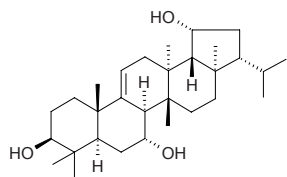


19022 Rubiarboside G

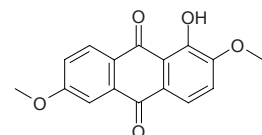
$C_{42}H_{70}O_{14}$ (799.02). Colorless powder (MeOH), mp > 290°C, $[\alpha]_D = +56.4^\circ$ (c = 0.05, MeOH). Source: XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.00012%dw). Ref: 4646.

**19023 Rubiatriol**

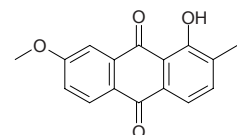
$C_{30}H_{50}O_3$ (458.73). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**19024 Rubiawallin A**

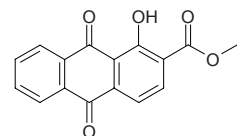
$C_{16}H_{12}O_5$ (284.27). Red needles (acetone), mp > 280°C. Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**19025 Rubiawallin B**

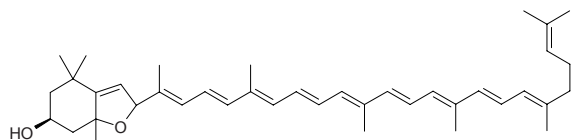
$C_{16}H_{12}O_4$ (268.27). Yellow needles (acetone), mp 136–137°C. Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**19026 Rubiawallin C**

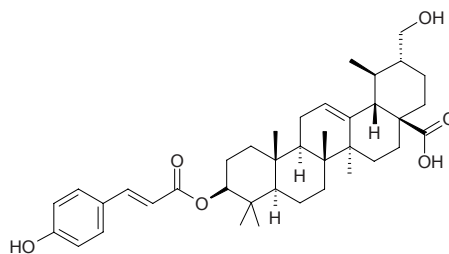
$C_{16}H_{10}O_5$ (282.26). Yellow needles (acetone), mp 136–137°C. Source: GUANG JING QIAN CAO *Rubia wallichiana* (stem). Ref: 4369.

**19027 Rubichrome**

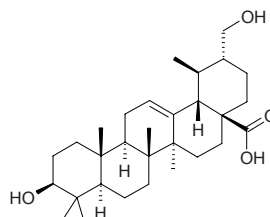
$C_{40}H_{56}O_2$ (568.89). mp 154°C (vaccum). Source: KONG QUE CAO *Tagetes patula*. Ref: 6, 1521.

**19028 Rubicoumaric acid**

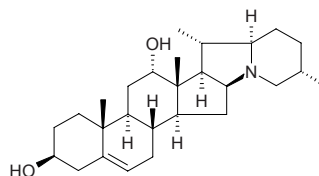
$C_{39}H_{54}O_6$ (618.86). Source: QIAN CAO TENG *Rubia cordifolia* (aerial parts). Ref: 660.

**19029 Rubifolic acid**

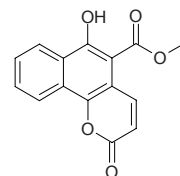
$C_{30}H_{48}O_4$ (472.71). Source: QIAN CAO TENG *Rubia cordifolia* (aerial parts). Ref: 660.

**19030 Rubijervine**

[79-58-3] $C_{27}H_{43}NO_2$ (413.65). mp 242°C. Source: LI LU *Veratrum nigrum*. Ref: 6.

**19031 Rubilactone**

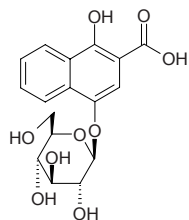
$C_{15}H_{10}O_5$ (270.24). Yellowish crystals, mp 216–218°C. Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 226.



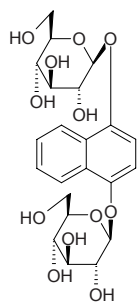
19032 Rubinaphthin A

2-Carboxyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranoside C₁₇H₁₈O₉ (366.33). Pale yellow powder (MeOH), mp 194–195°C, [α]_D = –96.0° (*c* = 0.15, MeOH). **Pharm:** β -Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (14.2 \pm 6.3)%^[4347]).

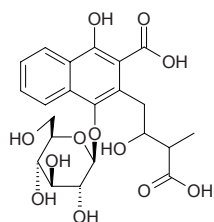
anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (4.5 \pm 5.2)%, control L-NMMA, IC₅₀ = 57 μ mol/L)^[4347]. **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4165, 4347.

**19033 Rubinaphthin B**

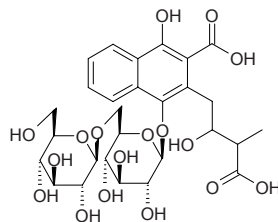
1,4-Naphthohydroquinone-1,4-di-*O*- β -*D*-glucopyranoside C₂₂H₂₈O₁₂ (484.42). Pale yellow powder (MeOH), mp 272–273°C, [α]_D = –183.3° (*c* = 0.075, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4165.

**19034 Rubinaphthin C**

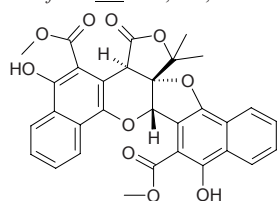
2-Carboxyl-3-(3'-carboxyl-2'-hydroxy)-butyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranoside C₂₂H₂₆O₁₂ (482.45). Orange syrup (MeOH), [α]_D = –159.5° (*c* = 0.47, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4165.

**19035 Rubinaphthin D**

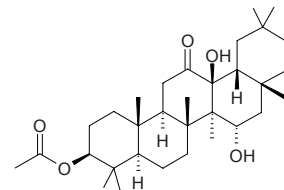
2-Carboxyl-3-(3'-carboxyl-2'-hydroxy)-butyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₂₈H₃₆O₁₇ (644.59). Dark orange syrup (MeOH), [α]_D = –48.0° (*c* = 0.38, MeOH). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4165.

**19036 Rubioncolin B**

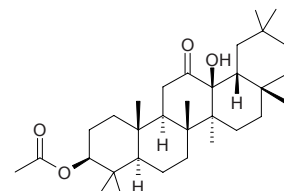
[132268-06-5] C₃₁H₂₄O₁₀ (556.53). Jacinth rhombic crystals, mp 235–236°C, [α]_D = 0° (*c* = 0.3, chloroform). **Pharm:** Antineoplastic (S₁₈₀, *in vivo*, 10mg/kg). **Source:** GOU MAO QIAN CAO *Rubia oncotricha*, QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660, 958, 1016.

**19037 Rubiprasin A**

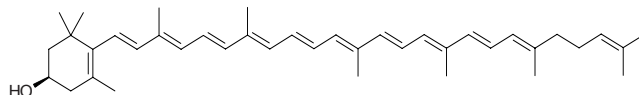
C₃₂H₅₂O₅ (516.77). **Source:** HEI GUO QIAN CAO *Rubia cordifolia* var. *pratensis*, QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660, 1521.

**19038 Rubiprasin B**

C₃₂H₅₂O₄ (500.77). **Source:** HEI GUO QIAN CAO *Rubia cordifolia* var. *pratensis*, QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660, 1521.

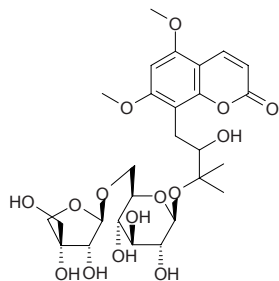
**19039 Rubixanthin**

[3763-55-1] C₄₀H₅₆O (552.89). mp 160°C. **Source:** JIN ZHAN JU *Calendula officinalis*, JU PI *Citrus reticulata*, KONG QUE CAO *Tagetes patula*, MEI GUI HUA *Rosa rugosa*, QUAN CHI QIANG WEI *Rosa canina*, XIANG RI KUI ZI *Helianthus annuus*, XING REN *Prunus armeniaca*, XIU HONG QIANG WEI *Rosa rubiginosa*, XUAN GOU ZI *Rubus chamaemorus*. **Ref:** 6.

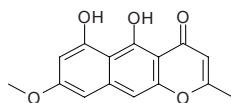


19040 Rubricauloside

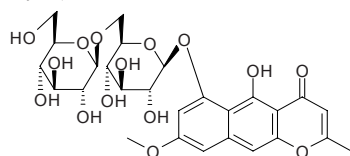
5,7-Dimethoxy-8-[2'-hydroxy-3'-methyl, 3'-*O*- β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranosylbutyl]-coumarin C₂₇H₃₈O₁₅ (602.59). White amorphous powder, mp 123–127°C, $[\alpha]_D^{16} = -38.5^\circ$ ($c = 0.31$, DMSO). Source: YUN QIAN HU *Peucedanum rubricaula*. Ref: 177, 476.

**19041 Rubrofusarin**

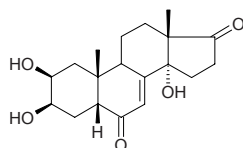
[3567-00-8] C₁₅H₁₂O₅ (272.26). mp 210–211°C. Pharm: Cytotoxic (P₃₈₈); CNS depressant (animal model); toxin. Source: JUE MING ZI *Cassia tora*, WU LENG JUE MING *Cassia quinquangula*, MANG GUO *Mangifera indica*. Ref: 2, 658.

**19042 Rubrofusarin-6- β -gentiobioside**

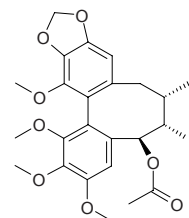
Rubrofusarin gentiobioside [24577-90-0] C₂₇H₃₂O₁₅ (596.55). Pharm: Antihepatotoxin (liver damage caused by galactosamine, stronger than silybin). Source: JUE MING ZI *Cassia tora*. Ref: 2, 725, 1686.

**19043 Rubrosterone**

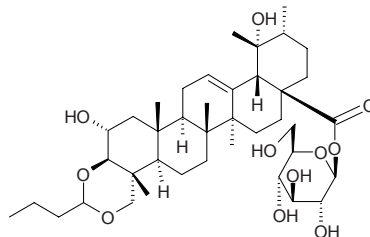
[19466-41-2] C₁₉H₂₆O₅ (334.42). Source: NIU XI *Achyranthes bidentata*. Ref: 2.

**19044 Rubschisantherin**

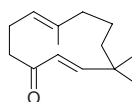
Acetylgomisin O [102637-03-6] C₂₅H₃₀O₈ (458.51). Amorphous powder, $[\alpha]_D^{18} = -69^\circ$ (ethanol). Source: HONG HUA WU WEI ZI *Schisandra rubriflora*, WU WEI ZI *Schisandra chinensis*. Ref: 39.

**19045 Rubusside A**

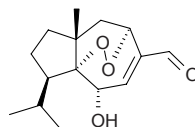
C₄₀H₆₄O₁₁ (720.95). Amorphous powder, $[\alpha]_D^{25} = +30.5^\circ$ ($c = 0.2$, MeOH). Source: PU TONG XUAN GOU ZI *Rubus allegheniensis* (fruit). Ref: 4314.

**19046 Rudbeckianone**

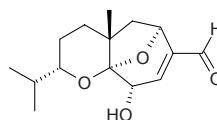
C₁₄H₂₂O (206.33). Source: JIN GUANG JU *Rudbeckia laciniata* (leaf), YU LIN CAI *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*] (root). Ref: 660.

**19047 Rugosal A**

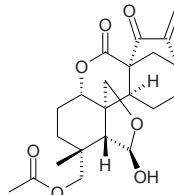
Rugosal [121387-05-1] C₁₅H₂₂O₄ (266.34). Pharm: Antimicrobial. Source: MEI GUI HUA *Rosa rugosa* (injured leaf). Ref: 658.

**19048 Rugosal D**

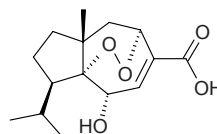
C₁₅H₂₂O₄ (266.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**19049 Rugosanin**

C₂₂H₂₈O₇ (404.46). mp 234–239°C, $[\alpha]_D^{20} = -197.6^\circ$ ($c = 0.21$, C₅H₅N). Source: ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. Ref: 4067.

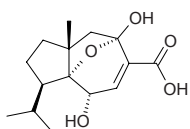
**19050 Rugosic acid A**

C₁₅H₂₂O₅ (282.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

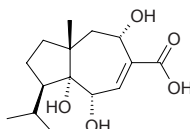


19051 Rugosic acid B

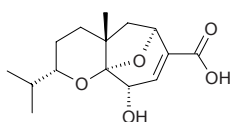
$C_{15}H_{22}O_5$ (282.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**19052 Rugosic acid C**

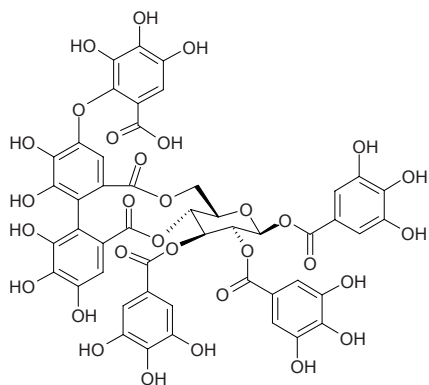
$C_{15}H_{24}O_5$ (284.36). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**19053 Rugosic acid D**

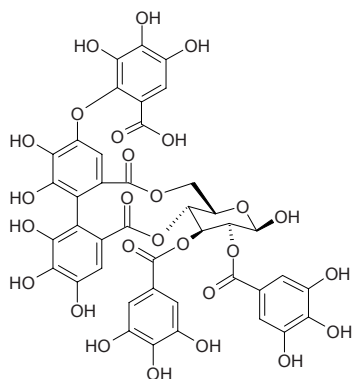
$C_{15}H_{22}O_5$ (282.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.

**19054 Rugosin A**

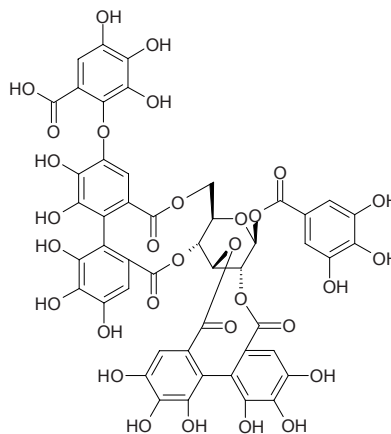
$C_{48}H_{34}O_{31}$ (1106.79). Source: MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660.

**19055 Rugosin B**

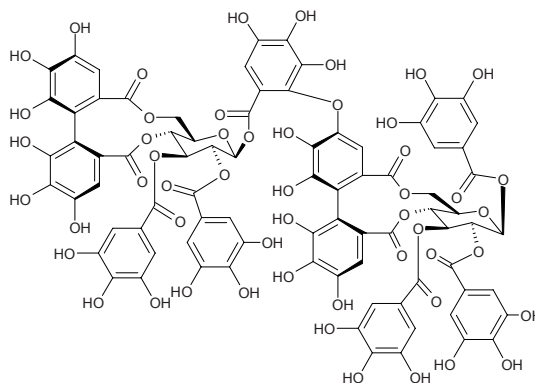
$C_{41}H_{30}O_{27}$ (954.68). Source: MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660.

**19056 Rugosin C**

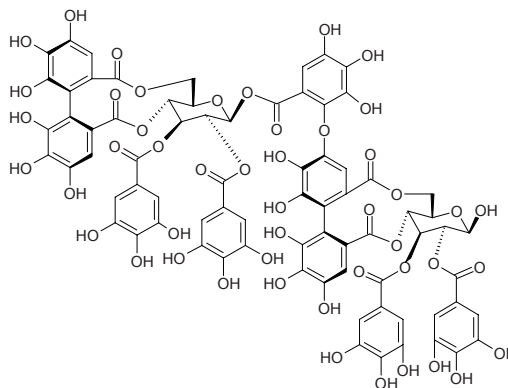
$C_{48}H_{32}O_{31}$ (1104.77). Pharm: Antioxidant (SOD-like activity, $EC_{50} = 45.3 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6 \mu\text{mol/L}$)^[3408]; antioxidant (DPPH free radical scavenger, $EC_{50} = 0.34 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25 \mu\text{mol/L}$)^[3408]. Source: HU TAO REN *Juglans regia*, MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660, 3408.

**19057 Rugosin D**

[84754-11-0] $C_{82}H_{58}O_{52}$ (1875.35). Pharm: Antineoplastic (potent *in vivo*); cytotoxic (P_{388}); CNS depressant; toxin. Source: LING *Trapa bispinosa*, MEI GUI HUA *Rosa rugosa* (receptacle), RI BEN MA SANG *Coriaria japonica*, XIAO GUO QIANG WEI GEN *Rosa cymosa*, XUAN GUO WEN ZI CAO *Filipendula ulmaria*. Ref: 658, 660, 1521.

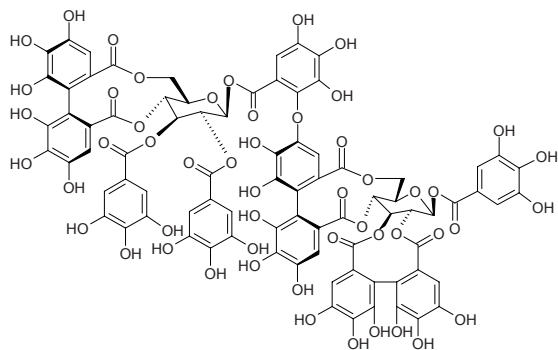
**19058 Rugosin E**

$C_{75}H_{54}O_{48}$ (1723.24). Source: MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660.

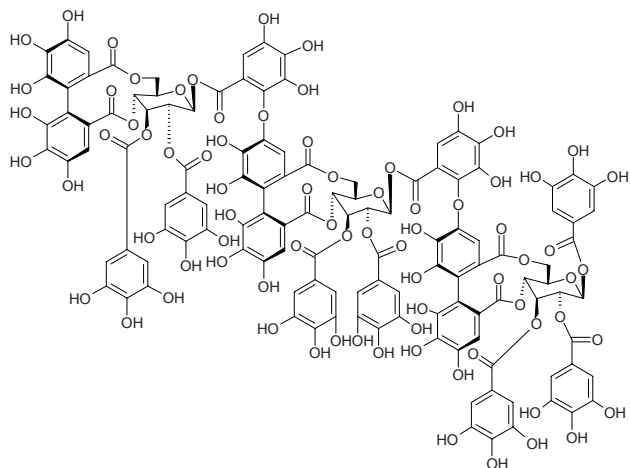


19059 Rugosin F

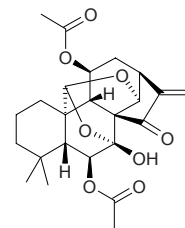
$C_{82}H_{56}O_{52}$ (1873.33). Source: MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660.

**19060 Rugosin G**

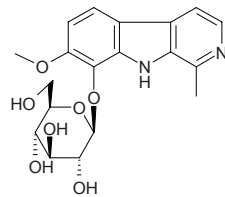
$C_{123}H_{86}O_{78}$ (2812.01). Light-tan amorphous powder +18H₂O, $[\alpha]_D = +109^\circ$ ($c = 1$, Me₂CO). Source: MEI GUI HUA *Rosa rugosa* (receptacle). Ref: 660, 1521.

**19061 Rugosinin**

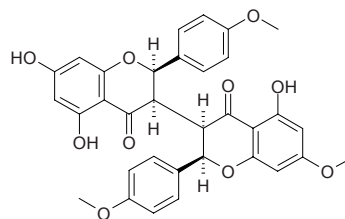
$C_{24}H_{30}O_8$ (446.50). Colorless prisms (EtOAc-hexane), mp 156~158°C, $[\alpha]_D^{23} = -127^\circ$ ($c = 0.4$, MeOH). Pharm: Cytotoxic (DNA-damaging activity, mutant yeast strain RAD 52Y, IC₁₂ = 25µg/mL, control Streptonigrin, IC₁₂ = 0.4µg/mL; wild type yeast strain RAD+, IC₁₂ = 45µg/mL, control Streptonigrin, IC₁₂ = 1.0µg/mL)^[5348]. Source: ZHOU YE XIANG CHA CAI *Isodon rugosus* [Syn. *Rabdosia rugosa*]. Ref: 5348.

**19062 Ruine**

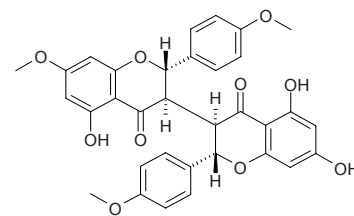
[32472-23-4] $C_{19}H_{22}N_2O_7$ (390.40). mp 227~229°C. Source: LUO TUO PENG *Peganum harmala*. Ref: 6.

**19063 Ruixianglangdusu A**

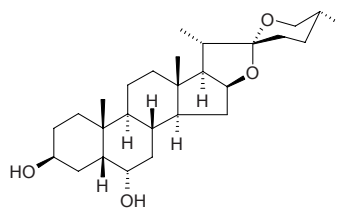
$C_{33}H_{28}O_{10}$ (584.59). White lamellar crystals, $[\alpha]_D^{19} = +176^\circ$ ($c = 0.106$, MeOH). Source: LANG DU *Stellera chamaejasme*. Ref: 2125.

**19064 Ruixianglangdusu B**

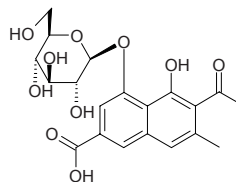
$C_{33}H_{28}O_{10}$ (584.59). Amorphous powder, $[\alpha]_D^{15} = +181^\circ$ ($c = 0.28$, MeOH). Source: LANG DU *Stellera chamaejasme*. Ref: 2125.

**19065 Ruizgenin**

[74609-42-0] $C_{27}H_{44}O_4$ (432.65). mp 221°C. Source: *Agave lecheguilla*. Ref: 2503.

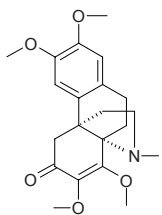
**19066 Rumexoside**

2-Acetyl-3-methyl-6-carboxy-1,8-dihydroxynaphthalene-8-*O*-β-*D*-glucopyranoside $C_{20}H_{22}O_{10}$ (422.39). Amorphous. Source: NIU XI XI *Rumex patientia*. Ref: 5138.

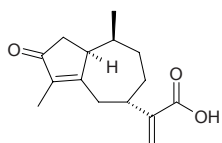


19067 Runanine

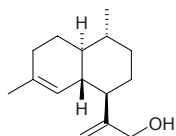
$C_{27}H_{27}NO_5$ (373.45). Source: JIN BU HUAN *Stephania sinica*. Ref: 660.

**19068 Rupestic acid**

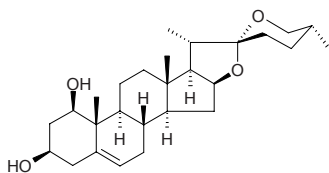
[115473-63-7] $C_{15}H_{20}O_3$ (248.32). Colorless acicular crystals, mp 132~133°C, $[\alpha]_D^{25} = +150^\circ$ ($c = 0.176$, ethanol). Source: XIN JIANG YI ZHI HAO *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*] (whole herb: mean content of 3 batch samples = 0.158%^[5518]). Ref: 96, 5518.

**19069 Rupestrenol**

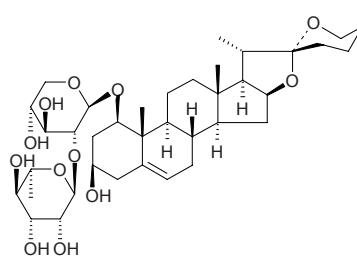
(+)-(1*R**,6*S**,7*S**,10*S**)-12-hydroxy-4,11(13)-cadinadiene $C_{15}H_{24}O$ (220.36). Colorless solid, mp 50~52°C, $[\alpha]_D = +43.9^\circ$ ($c = 0.86$, $CHCl_3$). Source: ZI BEI TAI *Plagiochasma rupestre*. Ref: 2392.

**19070 Ruscogenin**

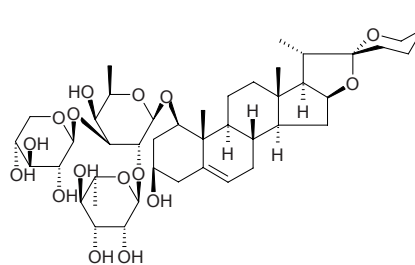
[35882-30-5] $C_{27}H_{42}O_4$ (430.63). mp 205~211°C. Pharm: Anti-atherosclerosis; antihypertensive; antihypercholesterolemic (reduces the level of cholesterol in serum); used in treatment of pile. Source: BIAN JING YAN JIE CAO *Ophiopogon planiscapus*, CI JI LI *Tribulus terrestris*, JI LI GEN *Tribulus terrestris*, JIA YE SHU *Ruscus aculeatus*, KUO YE SHAN MAI DONG *Liriope platyphylla* (dried tuberoid: mean content = 0.014%^[5508]), MAI DONG *Ophiopogon japonicus* (dried tuberoid: mean content = 0.033%^[5508]), SHAN MAI DONG *Liriope spicata* (dried tuberoid: mean content = 0.021%^[5508]). Ref: 6, 658, 5508.

**19071 25(S)-Ruscogenin 1-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-xylopyranoside**

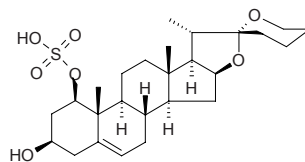
$C_{38}H_{60}O_{12}$ (708.89). White powder, mp 232~234°C (dec). Source: HU BEI SHAN MAI DONG *Liriope spicata* var. *prolifera*. Ref: 142.

**19072 25(S)-Ruscogenin 1-O-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-[β -D-xylopyranosyl-(1 \rightarrow 3)]-[β -D-fucopyranoside**

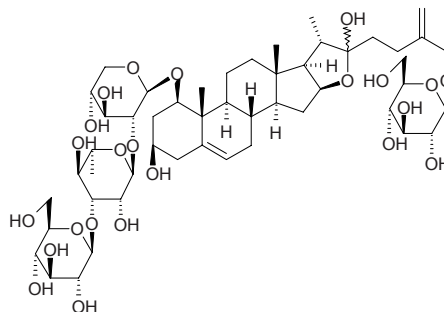
(25*S*)-Ruscogenin 1-*O*-{*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-[β -D-fucopyranoside} [125150-67-6] $C_{44}H_{70}O_{16}$ (855.04). Colorless acicular crystals (methanol), mp 201~202°C (dec), $[\alpha]_D^{23} = -93.4^\circ$ ($c = 0.41$, pyridine); colorless acicular crystals, mp 240~242°C, $[\alpha]_D^{24} = -100.9^\circ$. Pharm: cAMP phosphodiesterase inhibitor (*in vitro*, $IC_{50} = 103\mu\text{mol/L}$). Source: HU BEI SHAN MAI DONG *Liriope spicata* var. *prolifera*, MAI DONG *Ophiopogon japonicus* (dried tuberoid: mean content = 0.099%^[5508]). Ref: 142, 999, 1085, 1131, 5508.

**19073 Ruscogenin 1-O-sulfate**

$C_{27}H_{42}O_7S$ (510.70). Source: MAI DONG *Ophiopogon japonicus*. Ref: 660.

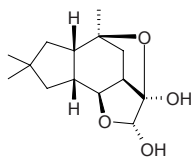
**19074 Ruscoside**

[51024-64-7] $C_{50}H_{80}O_{23}$ (1049.18). Pharm: Anti-inflammatory. Source: JIA YE SHU *Ruscus aculeatus*, BIAN JING YAN JIE CAO *Ophiopogon planiscapus*. Ref: 658.

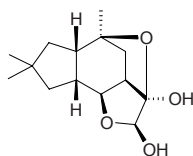


19075 Russulanorol A

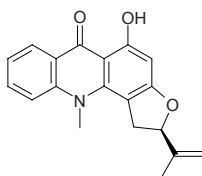
$C_{14}H_{22}O_4$ (254.33). Amorphous powder. Source: MEI WEI HONG GU *Russula delica* (sporocarp). Ref: 4374.

**19076 Russulanorol B**

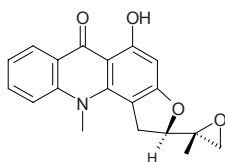
$C_{14}H_{22}O_4$ (254.33). Amorphous powder. Source: MEI WEI HONG GU *Russula delica* (sporocarp). Ref: 4374.

**19077 Rutacridone**

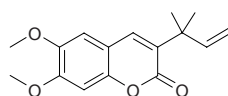
[17948-33-3] $C_{19}H_{17}NO_3$ (307.35). Yellow amorphous powder, mp 161~162°C, $[\alpha]_D = -44.9^\circ$ ($c = 0.1$, MeOH); yellow crystals. Pharm: Antileishmanial (*Leishmania major* promastigote, 10 $\mu\text{mol/L}$, survival = (34.9±1.5)%, 1 $\mu\text{mol/L}$, survival = (69.9±2.8)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.2±0.04)%, 1 $\mu\text{mol/L}$, survival = (71.9±4.4)%); *Leishmania major* amastigote, 10 $\mu\text{mol/L}$, survival = (88.0±5.1)%, 1 $\mu\text{mol/L}$, survival = (82.0±4.0)%, control Amphotericin B, 10 $\mu\text{mol/L}$, survival = (0.4±0.02)%, 1 $\mu\text{mol/L}$, survival = (0.5±0.03)%^[3797]; antifungal inactive (silica gel TLC, *Cladosporium cucumerinum*, control Nystatin, MIA = 0.2 μg)^[3797]; algicidal (*Oscillatoria perornata*, LCIC > 100mg/L; *Selenastrum capricornutum*, LCIC > 100mg/L)^[5328]. Source: CHOU CAO *Ruta graveolens*, *Thamnosma rhodesica* (root). Ref: 6, 3797, 5328.

**19078 Rutacridone epoxide**

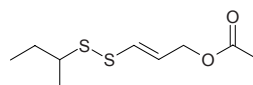
[77996-03-3] $C_{19}H_{17}NO_4$ (323.35). Bright yellow powder. Pharm: Antibacterial; algicidal (*Oscillatoria perornata*, LCIC = 0.1mg/L, $IC_{50} = 0.009 \mu\text{mol/L}$; *Selenastrum capricornutum*, LCIC = 1mg/L, $IC_{50} = 0.00173 \mu\text{mol/L}$)^[5328]; antifungal (*Colletotrichum acutatum*, *Colletotrichum fragariae*, *Colletotrichum gloeosporioides*, $IC_{50} = 0.125\text{--}1.0 \mu\text{mol/L}$; 0.5 $\mu\text{mol/L}$, *Colletotrichum fragariae*, *Colletotrichum gloeosporioides*, GI = 100%; 1.0 $\mu\text{mol/L}$, *Colletotrichum acutatum*, GI = 100%)^[5328]. Source: CHOU CAO *Ruta graveolens*. Ref: 658, 5328.

**19079 Rutacultin**

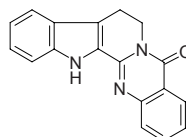
[31526-60-0] $C_{16}H_{18}O_4$ (274.32). mp 100~102°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**19080 Rutadisulfide A**

$C_9H_{16}O_2S_2$ (220.35). Source: CHOU A WEI *Ferula foetida* (root: yield = 0.00038%). Ref: 4659.

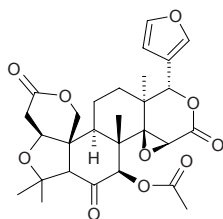
**19081 Rutaecarpine**

[84-26-4] $C_{18}H_{13}N_3O$ (287.32). Acicular crystals (EtOAc), mp 259.5~260.0°C, 256°C) Pharm: Antihypertensive (vasodilator, activates vanilloid receptors to evoke calcitonin gene-related peptide (CGRP) release)^[5358]; analgesic; promotes uterine contraction (chloride, $EC_{50} \leq 1.0 \mu\text{g/mL}$); raises body temperature; vanilloid receptor activator (to evoke calcitonin gene-related peptide (CGRP) release, CGRP alleviates cardiac anaphylactic injury)^[4087], a detail study on protective effects of rutaecarpine on cardiac anaphylaxis (the protective effects of rutaecarpine on cardiac anaphylactic injury are related to inhibition of TNF- α production by stimulation of CGRP release)^[4087]; anti-inflammatory (RAW264.7 cells, inhibits LPS-induced PGE₂ production)^[4415]. Source: BO SHI WU ZHU YU *Evodia rutaecarpa* var. *bodinieri* (dried and almost ripe fruit: content scope of 4 origins = 0.173%~0.568%, mean content = 0.331%)^[5508], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SHI HU⁽³⁾ *Evodia rutaecarpa* var. *officinalis* (dried and almost ripe fruit: content scope of 14 origins = 0.119%~0.832%, mean content = 0.364%)^[5508], WU ZHU YU *Evodia rutaecarpa* (dried and almost ripe fruit: content scope of 14 origins = 0.392%~1.331%, mean content = 0.791%)^[5508], WU ZHU YU *Evodia rutaecarpa* (dried unripe fruit), YI HUA WU ZHU YU *Evodia baberi* (dried and almost ripe fruit: content scope of 2 origins = 0.087%~0.110%, mean content = 0.098%)^[5508]. Ref: 2, 347, 661, 4087, 4415, 4502, 5358, 5501, 5508.

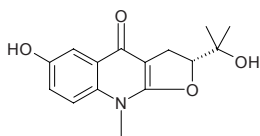


19082 Rutaevin acetate

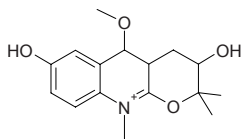
O-Acetylrutaevin [62306-81-4] C₂₈H₃₂O₁₀ (528.56). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2.

**19083 Rutalinidine**

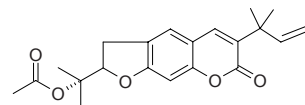
Ribaline [50894-68-3] C₁₅H₁₇NO₄ (275.31). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**19084 Rutalinium**

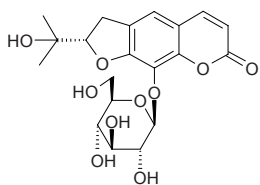
[27539-40-8] C₁₆H₂₂NO₄⁺ (292.36). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**19085 Rutamarin**

Chalepin acetate [14882-94-1] C₂₁H₂₄O₅ (356.42). mp 107~108°C. Pharm: Antispasmodic (pig, contraction of coronary artery *in vitro* caused by acetyl- β -methylcholine, *in vitro* fundus ventriculi of rat, ileum of rat, gpg and rbt, spasm reduced by methylcholine and BaCl₂); cytotoxic (HeLa, blocks DNA synthesis). Source: CHOU CAO *Ruta graveolens*, YAN JIAO CAO *Boeninghausenia albiflora*, RI BEN CHOU JIE CAO *Boeninghausenia japonica*. Ref: 5, 658.

**19086 Rutarin**

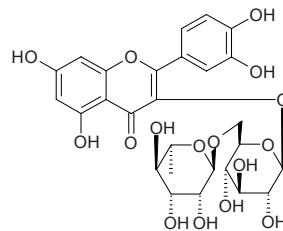
[20320-81-4] C₂₀H₂₄O₁₀ (424.41). Pharm: Antifungal. Source: CHOU CAO *Ruta graveolens*, SUI ZHUANG YUN XIANG *Ruta chalepensis*. Ref: 658.

**19087 Rutin**

Quercetin-3-O-(6"-O- α -rhamnopyranosyl)- β -glucopyranoside; Quercetin-3-rutinoside; Rutoside; Sophorin [153-18-4] C₂₇H₃₀O₁₆ (610.53). Yellow crystals, +3H₂O, mp 188~190°C, mp 214~215°C (dec, anhyd.), [α]_D²³ = +13.8° (EtOH), soluble in water, EtOH, acetone, insoluble in benzene, ether, chloroform.^[5507] Pharm: Anti-inflammatory (rat, inflammation model induced by embedding woolball, sulfate of rutin being strong anti-inflammatory for edema due to heat stimulation in rat, free radical scavenger); antiviral (vesicular stomatitis virus, max. inhibition in 200 μ g/mL); aldose reductase inhibitor (*in vitro*, rat lens aldose reductase, IC₅₀ = 13 μ mol/L; control Epalrestat, IC₅₀ = 0.072 μ mol/L)^[4641]; aldose reductase inhibitor (eye lens, 10 μ mol/L, InRt = 95%); insect antifeedant (*Heliothis zea*); insect phagostimulant (*Gastrophysa atrocynaea*); irritant of contact-ovipositing (*Papilio xuthus*); removes fat from liver of fatty infiltration; antioxidant (DPPH scavenger, EC₅₀ = 5.0 μ g/mL = 8.2 μ mol/L, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]; antioxidant (DPPH scavenger, SC₅₀ = 3.6 μ mol/L, positive control Vitamin E, SC₅₀ = 5.2mmol/L)^[4464]; antioxidant (DPPH scavenger, SC₅₀ = 4.3 μ mol/L)^[4247]; antioxidant (DPPH scavenger, IC₅₀ = (0.15 \pm 0.00) μ mol/L)^[3764]; antioxidant (Chemiluminescence Method, IC₅₀ = (0.11 \pm 0.01) μ mol/L)^[3764]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity = 15 μ mol/L)^[4247]; antioxidant (DPPH scavenger, IC₅₀ = 16.2 μ g/mL, control Gallic acid, IC₅₀ = 3.6 μ g/mL; Cytochrome-C reduction, IC₅₀ = 14.9 μ g/mL, control Gallic acid, IC₅₀ = 3.0 μ g/mL)^[5239]; inhibits cancer cell invasion inactive (MM1 cells, *in vitro*, 10 μ g/mL)^[4329]; cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100 μ mol/L)^[4607]; anti-inflammatory (macrophages, COX-2 inhibitor, inhibits COX-2 expression)^[4415]; reduces blood capillary permeability and brittleness; used in treatment of blood capillary ailments^[5341]; LD₅₀ (mus, iv) = 950mg/kg. Source: BAI GUO *Ginkgo biloba*, BAI MEI HUA *Prunus mume* (flower: yield = 0.0007%fw)^[4641], BEI SHA SHEN *Glehnia littoralis* (underground part), BIAN DI JIN *Hypericum wightianum* (dried whole herb: content = 0.0191%)^[5508], CHI AN *Eucalyptus camaldulensis*, CHOU CAO *Ruta graveolens* (dried aerial parts)^[3073], CU LIU GUO *Hippophae rhamnoides* (leaf: content = 0.238%)^[5508], DA ZAO *Ziziphus jujuba*, DUN BAO XUE LIAN *Saussurea nigrescens* (whole herb: content = 0.0051%)^[5508], FAN QIE *Lycopersicon esculentum* (fruit: yield = 0.00044%fw), GAN CAO *Glycyrrhiza uralensis*, GAN SU SHAN ZHA *Crataegus kansuensis* (dried ripe fruit: content = 0.027%), GUAN YE LIAN QIAO *Hypericum perforatum* (dried whole herb: content = 0.3095%)^[5508], GUANG ZHI GOU ER CHA *Berberis polyphylla* var. *leioclada*, HE YE FENG MAO JU *Saussurea graminea* (whole herb: content = 0.0515%)^[5508], HEI ZI LI GUO JI SHENG *Scurrula atropurpurea*, HONG HUA *Carthamus tinctorius* (flower: mean content of 4 origins = 1.24%)^[5508], HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content of 5 origins = 0.012%)^[5508], HU ZHANG YE *Polygonum cuspidatum*, HUAI JIAO *Sophora japonica* (dried ripe fruit: content = 3.15%)^[5508], HUAI *Sophora japonica* (flower: content scope = 8%~28%)^[5501], mean content = 9.33%, bud: mean content = 22.08%)^[5508], HUAI *Sophora japonica* (pericarp)^[3080], HUANG HAI TANG *Hypericum ascyron* (dried whole herb: content = 0.0176%)^[5508], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, JI LI MIAO *Tribulus terrestris*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0049%dw)^[3014], JIAN PU ZHAI GU KE *Erythroxylum*

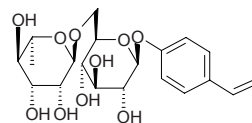
cambodianum (aerial parts), JIANG ZI SHA JI *Hippophae rhamnoides* subsp. *gyantsensis* (leaf: content = 0.009%)^[5508], JIAO GU LAN *Gynostemma pentaphyllum*, JIN SI MEI *Hypericum patulum* (dried whole herb: content = 0.2661%)^[5508], KU QIAO MAI *Fagopyrum tataricum* (seed: content = 4%)^[5507], KUAN DONG HUA *Tussilago farfara* (flower bud: content = 2.64%(wild); content = 1.62%(cultivate)^[5508]), LAN YU LUO YE RONG *Ficus ruficaulis* var. *antaensis* (leaf: yield = 0.0105%fw)^[4794], LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.001%dw)^[4607], LAO YA SHI *Diospyros rhombifolia* (leaf), LEI GUO SHA JI *Hippophae neurocarpa* (leaf: content = 0.271%)^[5508], LIAO NING SHAN ZHA *Crataegus sanguinea* (dried ripe fruit: content = 0.035%)^[5508], LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MAO GOU TENG *Uncaria hirsuta*, MAO GUO YI ZHI HUANG HUA *Solidago virgaurea*, MAO SHAN ZHA *Crataegus maximowiczii* (dried ripe fruit: content = 0.056%)^[5508], MEI HUA FENG MAO JU *Saussurea pulchella* (whole herb: content = 0.215%)^[5508], MIAN TOU YE *Kleinhovia hospita*, PU HUANG *Typha angustata*, QIAO MAI *Fagopyrum esculentum*, QIAO MAI JIE *Fagopyrum esculentum*, QU ZHOU HAI JIN SHA *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, SANG YE *Morus alba* (leaf: mean content = 0.364%)^[5508], SHAN LI HONG *Crataegus pinnatifida* var. *major* (dried ripe fruit: mean content of 4 origins = 0.007%), SHAN WO JU *Lactuca indica* (Fresh whole herb: yield = 0.0010%fw)^[4689], SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: content scope = 0.008%–0.22%)^[5501]; mean content of 3 origins = 0.020%^[5508], SHU QU FENG MAO JU *Saussurea gnaphaloides* (whole herb: content = 0.0557%)^[5508], TIAN CONG *Philydrum lanuginosum*, TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], TING JING BIAN DI JIN *Hypericum elodeoides* (dried whole herb: content = 0.0087%)^[5508], TUO YUAN GOU TENG *Uncaria elliptica*, WAN E JIN SI TAO *Hypericum curvisepalum* (dried whole herb: content = 0.0211%)^[5508], WU MAO SHAN ZHA *Crataegus pinnatifida* var. *psilosa* (dried ripe fruit: content = 0.033%)^[5508], XI ZANG SHA JI *Hippophae thibetana* (leaf: content = 0.018%)^[5508], XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00014%), XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO HUA FENG MAO JU *Saussurea parviflora* (whole herb: content = 0.0564%)^[5508], XIAO JI *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*] (whole herb or root: content scope of 6 origins = trace–0.64%, mean content = 0.154%)^[5508], XUE LIAN *Saussurea involucrata* (whole herb: content = 0.0704%)^[5508], YANG ZI XIAO LIAN QIAO *Hypericum faberi* (dried whole herb: content = 0.0661%)^[5508], YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 2 origins = 0.167%)^[5508], YE WU TONG *Mallotus japonicus*, YE XIA ZHU *Phyllanthus urinaria*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], YI ZHU QIAN MA *Urtica dioica*, YOU GAN YE *Phyllanthus emblica* (leaf and branch), YU XING CAO *Houttuynia cordata*, YUN NAN SHA JI *Hippophae rhamnoides* subsp. *yunnanensis* (leaf: content = 0.202%)^[5508], YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: content = 0.010%)^[5508], ZHONG GUO SHA JI *Hippophae rhamnoides* subsp. *sinensis* (leaf: content = 0.352%)^[5508], ZHONG YA SHA JI *Hippophae rhamnoides* subsp. *turkestanica* (leaf: content = 0.389%)^[5508], *Polygonum* sp., *Saussurea amarafisch* (whole herb: content = 0.0723%)^[5508], *Saussurea prostrata* (whole herb: content = 0.109%)^[5508], *Saussurea soroseris* (whole herb: content = 0.0043%)^[5508], occurs in many plants (Presence in over 30 families. mostly

dicotyledons). Ref: 2, 4, 6, 231, 283, 594, 658, 660, 1521, 2545, 2986, 3014, 3018, 3073, 3080, 3764, 4154, 4205, 4247, 4329, 4415, 4461, 4464, 4607, 4641, 4689, 4794, 5239, 5341, 5501, 5507, 5508.



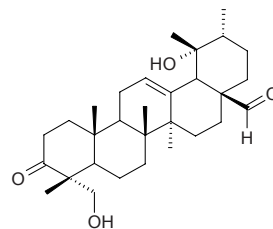
19088 *p*-β-Rutinosyloxy styrene

C₂₀H₂₈O₁₀ (428.44). Source: MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*]. Ref: 660.



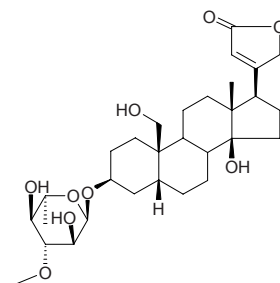
19089 Rutundanonic acid

C₃₀H₄₆O₄ (470.70). Source: JIU BI YING *Ilex rotunda*. Ref: 2160.



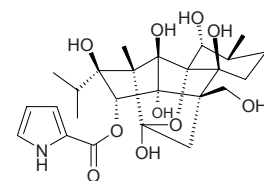
19090 Ruvoside

C₃₀H₄₆O₉ (550.70). mp 232–234°C. Pharm: Cardiac glycoside (cat, cardiac bioactivity (0.0019±0.0055)mg/kg). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6, 658.



19091 Ryanodine

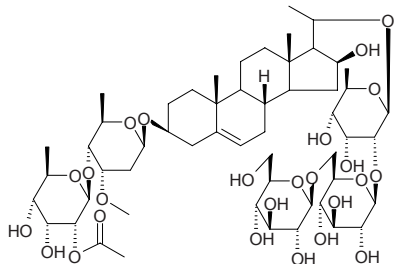
C₂₅H₃₅NO₁₀ (509.56). Crystals (CHCl₃:Me₂CO = 3:1), mp 180°C, [α]_D = +9° (c = 0.7). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC₅₀ = 14nmol/L). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.



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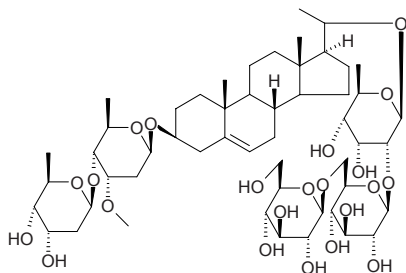
19092 S-4a

$C_{54}H_{88}O_{25}$ (1137.29). mp 182–184°C, $[\alpha]_D = -16.24^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.



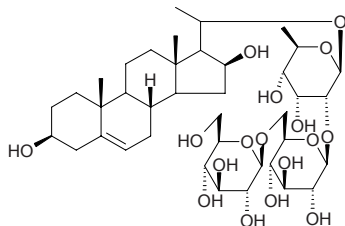
19093 S-5

$C_{52}H_{86}O_{22}$ (1063.25). mp 175–177°C, $[\alpha]_D = -25.22^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.



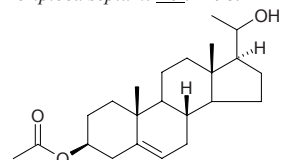
19094 S-10

$C_{39}H_{64}O_{17}$ (804.93). mp 167–169°C, $[\alpha]_D = -2.6^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.



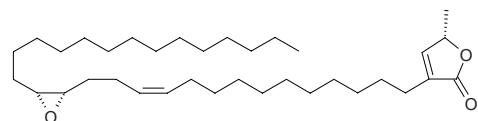
19095 S-20

$C_{23}H_{36}O_3$ (360.54). mp 165–167°C, $[\alpha]_D = -65.2^\circ$. Source: XIANG JIA PI *Periploca sepium*. Ref: 2498.



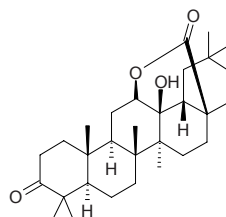
19096 Sabadelin

$C_{35}H_{62}O_3$ (530.88). White waxy solid, $[\alpha]_D = +12^\circ$ ($c = 0.19$, MeOH). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 2401.



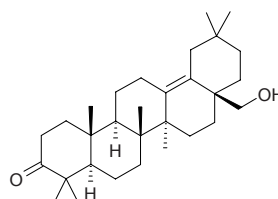
19097 Sabialactone

$C_{30}H_{46}O_4$ (470.70). Colorless granular crystals, mp 273–275°C, $[\alpha]_D^{13} = +78.65^\circ$ ($c = 0.09$, chloroform). Source: JIAN YE QING FENG TENG *Sabia swinhoei*. Ref: 326, 403, 407, 377.



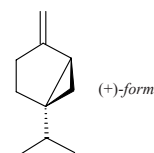
19098 Sabianone

$C_{30}H_{48}O_2$ (440.72). White amorphous powder, mp 185°C. Source: JIAN YE QING FENG TENG *Sabia swinhoei*. Ref: 326.



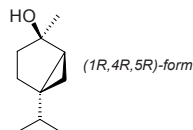
19099 Sabinene

4-Methylene-1-(1-methylethyl)bicyclo[3.1.0]hexane [3387-41-5] $C_{10}H_{16}$ (136.24). bp (+) 163–165°C, (–) 162–166°C. Source: KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, XI XIN *Asarum sieboldii*. Ref: 2, 660.



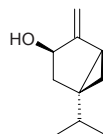
19100 Sabinene hydrate

$C_{10}H_{18}O$ (154.25). mp (+) 36.5–37.2°C. Source: JU PI *Citrus reticulata*. Ref: 2.



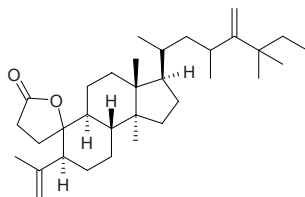
19101 Sabinol

$C_{10}H_{16}O$ (152.24). bp 208°C. Pharm: Anthelmintic; inhibits small intestinal movement (rbt, *in vitro*, immediately action). Source: CHOU BAI *Sabina vulgaris*, CHA ZI YUAN BAI *Juniperus sabina*, XIAO RU XIANG *Schinus terebinthifolius*. Ref: 6, 658.

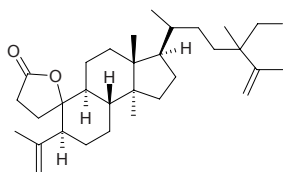


19102 Sablaurin A

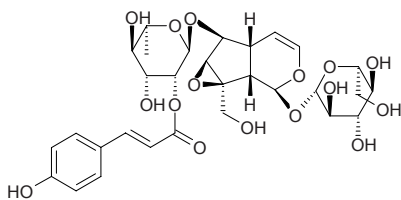
25-Ethyl,23-methyl-19-*nor*-24-methylene-3,4-*seco*-4(28)-lanosten-10,3-olide
 $C_{32}H_{54}O_2$ (482.80). Creamy white solid. Source: *Sabal causerianum* (leaf). Ref: 3805.

**19103 Sablaurin B**

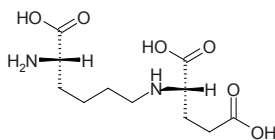
24-Ethyl,24-methyl-19-*nor*-3,4-*seco*-4(28),25(26)-lanostadiene-10,3-olide
 $C_{32}H_{52}O_2$ (468.77). Creamy white solid. Source: *Sabal blackburniana* (leaf).
Ref: 3805.

**19104 Saccatoside**

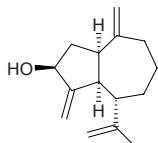
6-*O*-*a*-L-(2''-*O*-*trans*-*p*-Coumaroyl)rhamnopyranosylcatalpol $C_{30}H_{38}O_{16}$
 (654.63). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts),
 NANG ZHUANG MAO RUI HUA *Verbascum saccatum*. Ref: 1521, 3954.

**19105 Saccharopine**

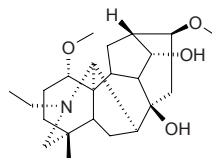
[13429-91-9] $C_{11}H_{20}N_2O_6$ (276.29). Source: XIANG XUN *Lentinus edodes*,
 YAN CAO *Nicotiana tabacum*. Ref: 660.

**19106 Saccogynol**

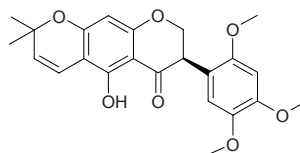
(+)-(1*R**,3*S**,5*R**,6*S**)-Saccogynol $C_{15}H_{22}O$ (218.34). Source: *Saccogyna*
viticulosa (essential oil). Ref: 3839.

**19107 Sachaconitine**

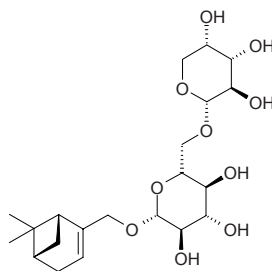
Vilmorrianine D $C_{23}H_{37}NO_4$ (391.56). White amorphous powder. Source:
 GONG GA SHAN WU TOU *Aconitum liljestrandii*, GUA YE WU TOU
Aconitum hemsleyanum. Ref: 2191, 2208.

**19108 (R)-Saclenone**

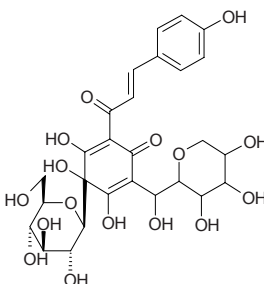
(*R*)-5-Hydroxy-2',4',5'-trimethoxy-2'',2''-dimethylpyrano[5'',6'':6,7]isoflavanon
 e $C_{23}H_{24}O_7$ (412.44). Amorphous powder, $[\alpha]_D = -22^\circ$ ($c = 0.1$, MeOH).
Source: *Erythrina saclouxii* (stem cortex). Ref: 5097.

**19109 Sacranoside A**

$C_{21}H_{34}O_{10}$ (446.5). Source: SHENG DI HONG JING TIAN *Rhodiola sacra*.
Ref: 742.

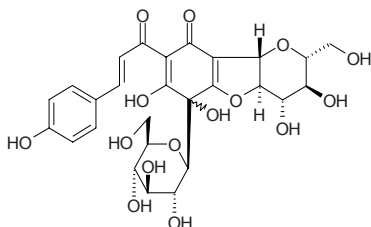
**19110 Saffloin A**

[78281-02-4] $C_{27}H_{32}O_{16}$ (612.55). Source: HONG HUA *Carthamus tinctorius*
 (flower: mean content of 4 origins = 1.17%^[5526]). Ref: 660, 1545, 5526.

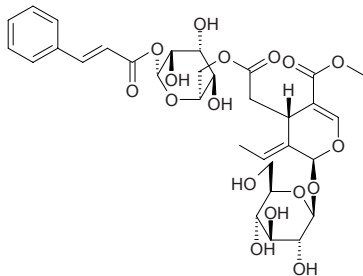


19111 Safflower yellow A

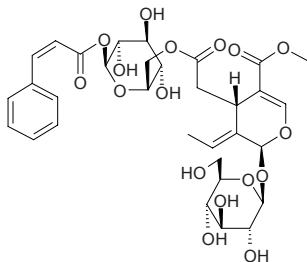
Safflor yellow A [85532-77-0] $C_{27}H_{30}O_{15}$ (594.53). **Pharm:** Anticonvulsant (rat, ip, 1.1g/kg); sedative (mus, ip, 0.55g/kg, extends sleeping time induced by pentobarbital or aquachloral); inhibits blood capillary permeability (rat, ip, 1.1g/kg, induced by histamine); anti-inflammatory (rat, ip, 1.1g/kg, paw edema model caused by formaldehyde); LD_{50} (mus, iv) = 2.35g/kg. **Source:** HONG HUA *Carthamus tinctorius* (flower: mean content of 4 origins = 0.70%^[5526]). **Ref:** 2, 5501, 5526.

**19112 Safghanoside A**

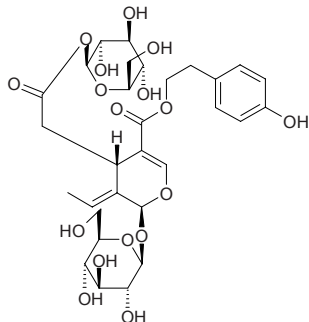
$C_{32}H_{40}O_{17}$ (692.67). Colorless amorphous powder, $[\alpha]_D^{27} = -143^\circ$ ($c = 0.96$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**19113 Safghanoside B**

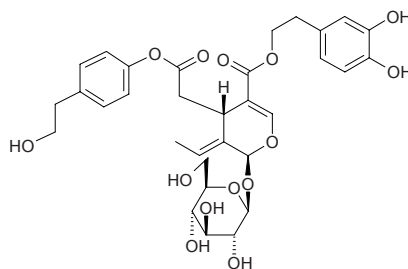
$C_{32}H_{40}O_{17}$ (692.67). Colorless amorphous powder, $[\alpha]_D^{26} = -158^\circ$ ($c = 0.33$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**19114 Safghanoside C**

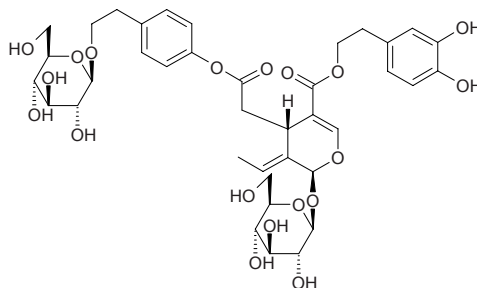
$C_{30}H_{40}O_{17}$ (672.64). Colorless amorphous powder, $[\alpha]_D^{27} = -102^\circ$ ($c = 0.83$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**19115 Safghanoside D**

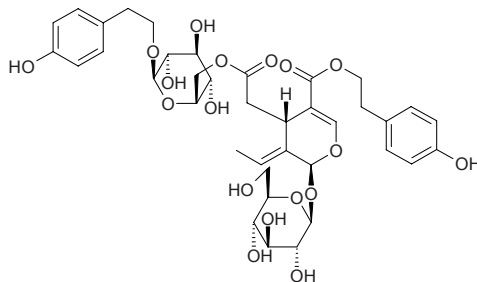
$C_{32}H_{38}O_{14}$ (646.65). Colorless amorphous powder, $[\alpha]_D^{27} = -129^\circ$ ($c = 1.05$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**19116 Safghanoside E**

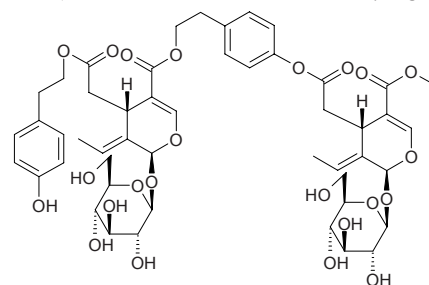
$C_{38}H_{48}O_{19}$ (808.79). Colorless amorphous powder, $[\alpha]_D^{26} = -104^\circ$ ($c = 0.69$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

**19117 Safghanoside F**

$C_{38}H_{48}O_{18}$ (792.80). Colorless amorphous powder, $[\alpha]_D^{27} = -101^\circ$ ($c = 0.27$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

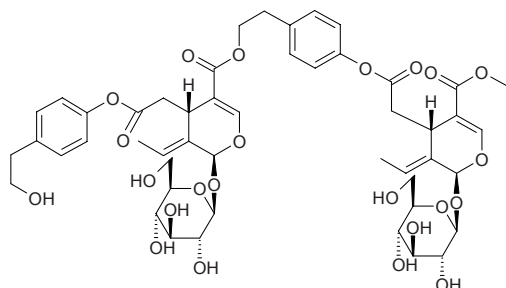
**19118 Safghanoside G**

$C_{49}H_{60}O_{23}$ (1017.01). Colorless amorphous powder, $[\alpha]_D^{27} = -182^\circ$ ($c = 0.62$, MeOH). **Source:** A FU HAN DING XIANG *Syringa afghanica*. **Ref:** 2006.

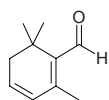


19119 Safghanoside H

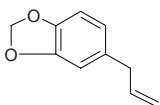
$C_{49}H_{60}O_{23}$ (1017.01). Colorless amorphous powder, $[\alpha]_D^{28} = -142^\circ$ ($c = 0.33$, MeOH). Source: A FU HAN DING XIANG *Syringa afghanica*. Ref: 2006.

**19120 Safranal**

[116-26-7] $C_{10}H_{14}O$ (150.22). bp 172°C. Source: ZANG HONG HUA *Crocus sativus*, GOU QI ZI *Lycium chinense*. Ref: 6, 660.

**19121 Saffrole**

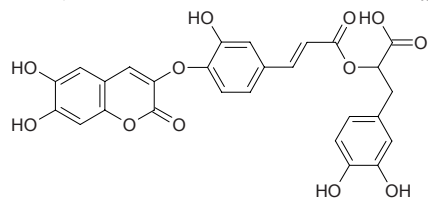
1,2-Methylenedioxy-4-allyl-benzene [94-59-7] $C_{10}H_{10}O_2$ (162.19). Pharm: Antifungal (broad spectrum); carcinogen (liver, low dose); toxin (hmn). Source: DONG DU HUI *Illicium religiosum*, DU HENG *Asarum forbesii*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, LIU YE MU LAN *Magnolia salicifolia*, LUO JI SHAN YUAN BAI *Juniperus scopulorum*, LUO LE *Ocimum basilicum*, MEI ZHOU CHA MU *Sassafras albidum*, ROU DOU KOU *Myristica fragrans* (kernel: content scope = 0.27%~0.39%, mean content = 0.31%^[5508]), SHENG JIANG *Zingiber officinale*, XI XIN *Asarum sieboldii* (whole herb = content scope = 0.014%~0.96%)^[5501], ZHANG MU *Cinnamomum camphora*. Ref: 2, 658, 660, 5501, 5508.

**19122 Safynol**

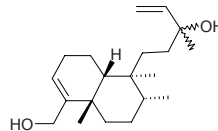
$C_{13}H_{12}O_2$ (200.24). Yellowish powder, mp 97~99°C. Pharm: Cytotoxic (HL-60, $IC_{50} = 4.7 \mu\text{g/mL}$, K562, $IC_{50} = 6.0 \mu\text{g/mL}$)^[4596]; plant antitoxin^[658]. Source: GUI ZHEN CAO *Bidens bipinnata* (whole herb), HONG HUA *Carthamus tinctorius*, *Centaurea* sp. Ref: 658, 4596.

**19123 Sagecoumarin**

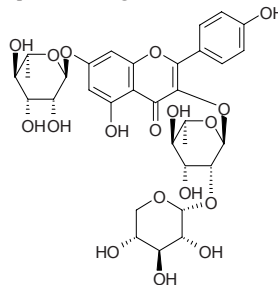
$C_{27}H_{20}O_{12}$ (536.45). Freeze-dried light-brown powder, $[\alpha]_D^{20} = +52^\circ$ ($c = 0.2$, MeOH). Source: YAO YONG DAN SHEN *Salvia officinalis*. Ref: 2388.

**19124 Sagittariol**

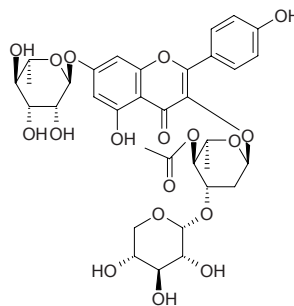
[56497-92-8] $C_{20}H_{34}O_2$ (306.49). mp 109~110°C. Source: CI GU *Sagittaria sagittifolia*. Ref: 6, 1521.

**19125 Sagittatin A**

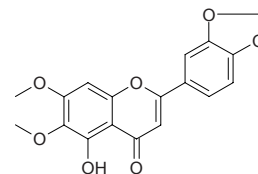
[124704-85-4] $C_{32}H_{38}O_{18}$ (710.65). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 2, 660, 1521.

**19126 Sagittatin B**

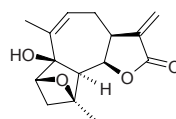
[124723-15-5] $C_{34}H_{40}O_{18}$ (736.69). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 2, 1521.

**19127 Sagittin**

5-Hydroxy-6,7-dimethoxy-3',4'-methylene-dioxy-flavone $C_{18}H_{14}O_7$ (342.31). Yellow acicular crystals, mp 254~257°C (230°C, sub). Source: JIAN YE YIN YANG HUO *Epimedium sagittatum*. Ref: 485, 660.

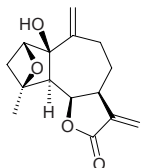
**19128 Saharanolide A**

5 α H-2,4 β -Epoxy-1-hydroxyguaia-9(10),11(13)-dien-6 β ,12-olide $C_{15}H_{18}O_4$ (262.31). Colorless gum, $[\alpha]_D^{22} = -86^\circ$ ($c = 0.1$, EtOH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 3.3 \mu\text{g/mL}$). Source: *Warionia saharae* (leaf: yield = 0.0004%dw). Ref: 4620.

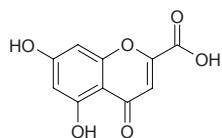


19129 Saharanolide B

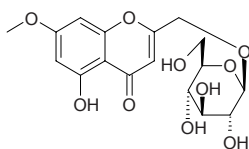
5 α H-2,4 β -Epoxy-1-hydroxyguaia-10(14),11(13)-dien-6 β ,12-olide C₁₅H₁₈O₄ (262.31). Colorless gum, $[\alpha]_D^{22} = -86^\circ$ ($c = 0.1$, EtOH). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ = 5.5 μ g/mL). **Source:** *Warionia saharae* (leaf: yield = 0.0005%dw). **Ref:** 4620.

**19130 Saikochromic acid**

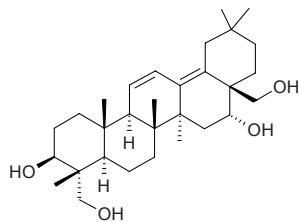
C₁₀H₆O₆ (222.16). Yellowish needles. **Source:** CHAI HU *Bupleurum chinense*. **Ref:** 8.

**19131 Saikochromoside A**

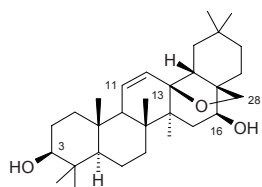
C₁₇H₂₀O₁₀ (384.34). White needles, mp 189–191°C. **Source:** CHAI HU *Bupleurum chinense*. **Ref:** 8.

**19132 Saikogenin D**

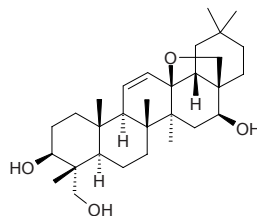
[5573-16-0] C₃₀H₄₈O₄ (472.71). **Source:** ZI HU *Bupleurum falcatum*. **Ref:** 2247.

**19133 Saikogenin E**

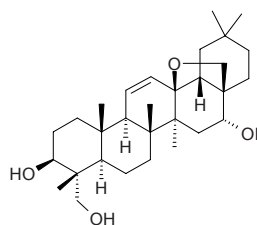
[13715-23-6] C₃₀H₄₈O₃ (456.72). mp 289°C (dec). **Source:** CHAI HU *Bupleurum chinense*. **Ref:** 2.

**19134 Saikogenin F**

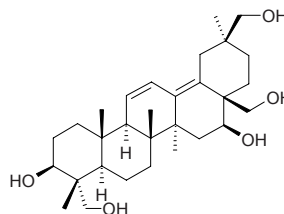
[14356-59-3] C₃₀H₄₈O₄ (472.71). mp 265–273°C. **Source:** CHAI HU *Bupleurum chinense*, XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*. **Ref:** 2, 598.

**19135 Saikogenin G**

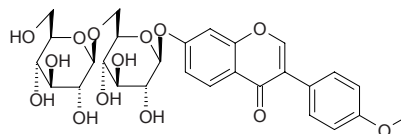
[18175-79-6] C₃₀H₄₈O₄ (472.71). mp 238–245°C. **Source:** CHAI HU *Bupleurum chinense*, XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*. **Ref:** 2, 598.

**19136 Saikogenin Q**

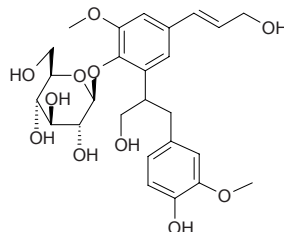
Olean-11,13(18)-diene-3 β ,16 β ,23,28,30-pentol [168146-19-8] C₃₀H₄₈O₅ (488.71). White powder, mp 302–304°C. **Source:** XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*, HEI CHAI HU *Bupleurum smithii*. **Ref:** 327, 1521, 2247.

**19137 Saikoisoflavonoside A**

C₂₈H₃₂O₁₄ (592.56). Yellow-white powder, mp 245–246°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*. **Ref:** 8.

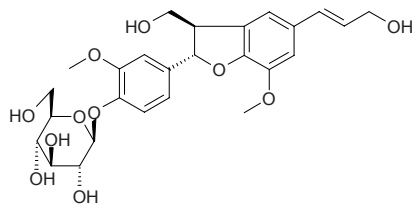
**19138 Saikolignanoside A**

C₂₆H₃₄O₁₁ (522.55). Yellow-white powder, mp 110–112°C, $[\alpha]_D^{23} = +32.8^\circ$ ($c = 0.131$, MeOH). **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*. **Ref:** 8.

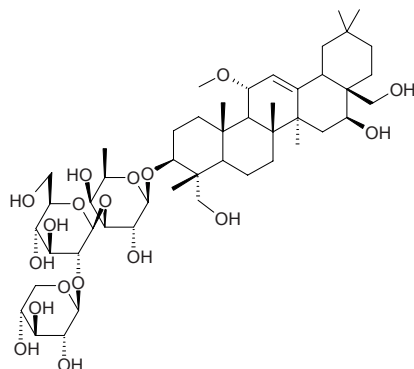


19139 Saikolignanoside D

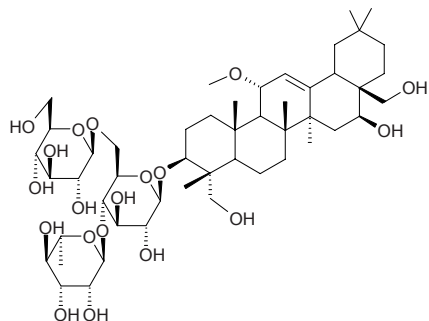
$C_{26}H_{32}O_{11}$ (520.54). Yellow-white powder, mp 102~104°C, $[\alpha]_D^{28} = +0.63^\circ$ ($c = 0.156\text{g}/100\text{ml}$ in MeOH). Source: HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 8.

**19140 Saikosaponin 15**

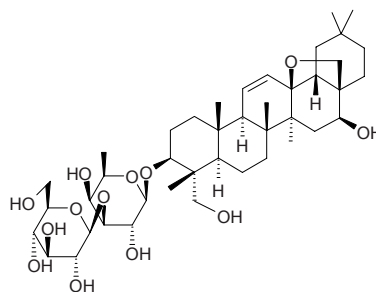
$C_{48}H_{80}O_{18}$ (945.16). Source: ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. Ref: 660.

**19141 Saikosaponin 16**

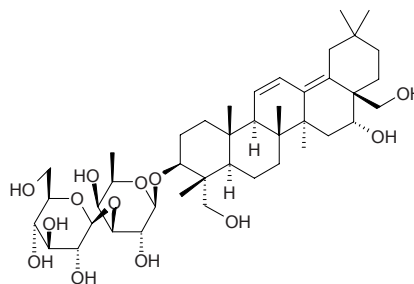
$C_{49}H_{82}O_{19}$ (975.19). Source: ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*. Ref: 660.

**19142 Saikosaponin A**

[20736-09-8] $C_{42}H_{68}O_{13}$ (781.00). mp 225~232°C. Pharm: Antineoplastic (EAC); antihepatotoxin (rat, hepatotoxin induced by CCl_4); anti-inflammatory; antiviral (influenza virus A_2 *in vitro*, 50 $\mu\text{g}/\text{mL}$, InRt = 69%); antihypercholesterolemic. Source: CHAI HU *Bupleurum chinense* (dried root: content scope = 0.11%~0.34%, mean content = 0.185%^[5508]), HEI CHAI HU *Bupleurum smithii* (dried root: mean content = 0.470%^[5508]), HONG CHAI HU *Bupleurum scorzonerifolium* (dried root: content scope = 0.03%~0.07%, mean content = 0.05%^[5508]), XIAN YE CHAI HU *Bupleurum angustissimum* (dried root: content = 0.05%^[5508]), XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium* (dried root: content scope = 0.13%~0.24%, mean content = 0.176%^[5508]), YIN ZHOU CHAI HU *Bupleurum yinchowense* (dried root: content scope = 0.08%~0.13%, mean content = 0.105%^[5508]), ZHU YE CHAI HU *Bupleurum marginatum* (dried root: content = 0.41%^[5508]), ZHUI YE CHAI HU *Bupleurum bicaule* (dried root: content scope = 0.07%~0.08%, mean content = 0.075%^[5508]), ZI HU *Bupleurum falcatum* (dried root: content = 0.07%^[5508]), *Bupleurum* spp. Ref: 5, 403, 598, 658, 660, 5426, 5501, 5508.

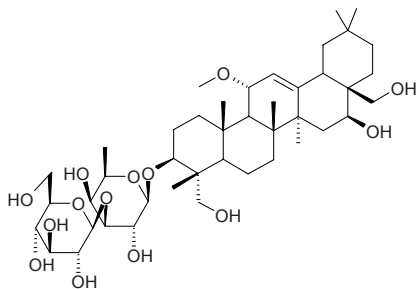
**19143 Saikosaponin B₂**

[58316-41-9] $C_{42}H_{68}O_{13}$ (781.00). White powder (methanol-diethyl ether), mp 235~240°C, $[\alpha]_D^{25} = -32.1^\circ$ ($c = 0.518$). Pharm: Anti-inflammatory; cytotoxic (P_{388} , $\text{ED}_{50} = 0.3\mu\text{g}/\text{mL}$, inhibits growth of B16 melanoma, MH_1C_1 and EL_4 , induces apoptosis of B16 melanoma); immunoenhancer (prolongs survival time of immunologic injury mus); inhibits lipolysis (selectively); stimulates synthesis of PGE_2 . Source: DUO ZHI CHAI HU *Bupleurum polyclonum*, HEI CHAI HU *Bupleurum smithii*, LI JIANG CHAI HU *Bupleurum rockii*, YIN ZHOU CHAI HU *Bupleurum yinchowense*, ZI HU *Bupleurum falcatum*. Ref: 660, 900.

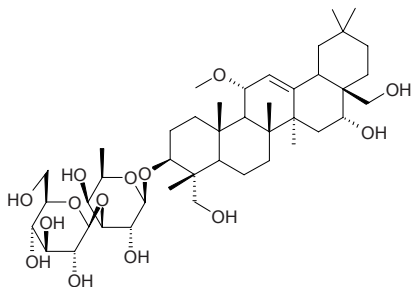


19144 Saikosaponin B₃

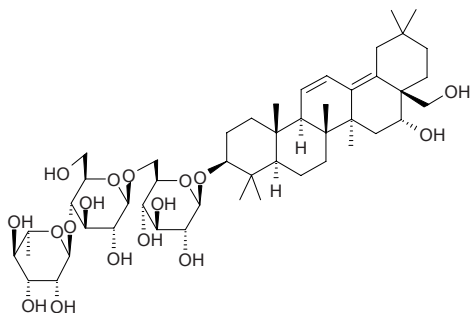
$C_{43}H_{72}O_{14}$ (813.04). Source: ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*, ZHU YE CHAI HU *Bupleurum marginatum*, ZI HU *Bupleurum falcatum*. Ref: 660.

**19145 Saikosaponin B₄**

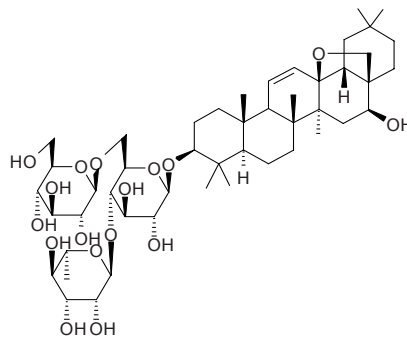
$C_{43}H_{72}O_{14}$ (813.04). Source: ZHAI ZHU YE CHAI HU *Bupleurum marginatum* var. *stenophyllum*, ZI HU *Bupleurum falcatum*. Ref: 660.

**19146 Saikosaponin BK₁**

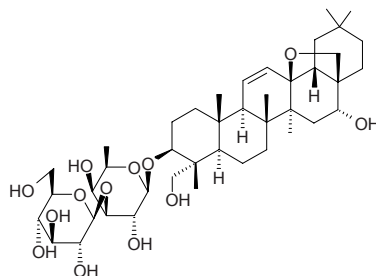
$C_{48}H_{78}O_{17}$ (927.15). Pharm: cytotoxic (*in vitro*, leukemia). Source: KUN MING CHAI HU *Bupleurum kunmingense*. Ref: 658.

**19147 Saikosaponin C**

[20736-08-7] $C_{48}H_{78}O_{17}$ (927.15). mp 202~210°C. Pharm: Anti-HBV (significantly inhibits expression of HBsAg in 2,2,15 cells, $p < 0.05$; inhibits secretion of HBsAg, $IC_{50} = 11 \mu\text{g/mL}$; inhibits expression of HBV DNA, $IC_{50} = 13.4 \mu\text{g/mL}$)^[5426]. Source: CHAI HU *Bupleurum chinense* (dried root: mean content = 0.430%^[5508]), HEI CHAI HU *Bupleurum smithii* (dried root: mean content = 0.628%^[5508]), HONG CHAI HU *Bupleurum scorzonerifolium*, ZHU YE CHAI HU *Bupleurum marginatum* (dried root: content = 0.26%^[5508]), *Bupleurum* spp. Ref: 2, 403, 660, 5426, 5508.

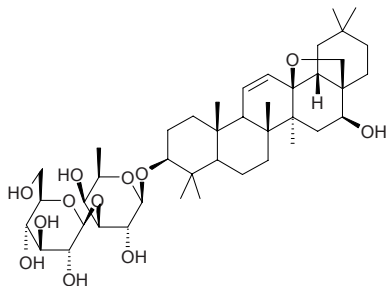
**19148 Saikosaponin D**

[20874-52-6] $C_{42}H_{68}O_{13}$ (781.00). White powder, mp 212~218°C, $[\alpha]_D^{23} = +37^\circ$ (ethanol), $+36.8^\circ$ ($c = 1.9$, ethanol). Pharm: Antibacterial (*Bacillus pyocyaneus*); antineoplastic (EAC); antihepatotoxin (liver damage caused by CCl_4 and galactosamine); anti-inflammatory ($P < 0.001$); antiviral (measles virus and herpes simplex virus *in vitro*, $> 5 \mu\text{mol/L}$); cytotoxic (KB, $ED_{50} = 9.2 \mu\text{g/mL}$; P₃₈₈, $ED_{50} = 1.1 \mu\text{g/mL}$); cytotoxic (HepG2 hmn hepatocellular carcinoma cells, $10 \mu\text{g/mL}$)^[5426]; immunoenhancer (prolongs life time of immunologically impaired animal); hemolytic (*in vivo*); antihypercholesterolemic; stimulates release of CRF and CRF gene express (in rat hypothalamus); stimulates synthesis of PGE_2 . Source: CHAI HU *Bupleurum chinense* (dried root: content scope = 0.12%~0.35%, mean content = 0.217%^[5508]), DA YE CHAI HU *Bupleurum longiradiatum*, HEI CHAI HU *Bupleurum smithii* (dried root: mean content = 0.227%^[5508]), HONG CHAI HU *Bupleurum scorzonerifolium* (dried root: content scope = 0.05%~0.16%, mean content = 0.09%^[5508]), XIAN YE CHAI HU *Bupleurum angustissimum* (dried root: content = 1.42%^[5508]), XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium* (dried root: content scope = 0.15%~0.26%, mean content = 0.21%^[5508]), YIN ZHOU CHAI HU *Bupleurum yinchowense* (dried root: content scope = 0.14%~0.23%, mean content = 0.185%^[5508]), ZHU YE CHAI HU *Bupleurum marginatum* (dried root: content = 0.44%^[5508]), ZHUI YE CHAI HU *Bupleurum bicaule* (dried root: content scope = 1.74%~2.36%, mean content = 2.05%^[5508]), ZI HU *Bupleurum falcatum* (dried root: content = 0.16%^[5508]), *Bupleurum* spp. Ref: 5, 403, 598, 660, 900, 5426, 5501, 5508.

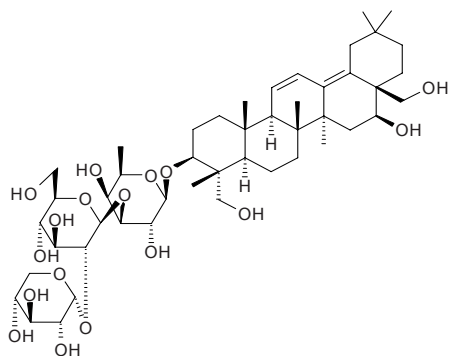


19149 Saikosaponin E

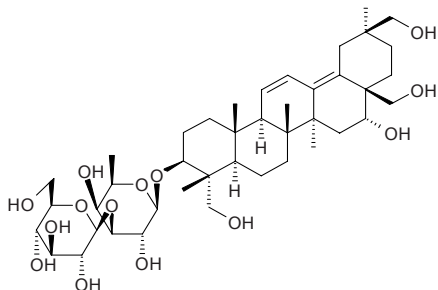
$C_{42}H_{68}O_{12}$ (765.00). Source: DUO ZHI CHAI HU *Bupleurum polyclonum*, LI JIANG CHAI HU *Bupleurum rockii*, ZHU YE CHAI HU *Bupleurum marginatum*, ZI HU *Bupleurum falcatum*. Ref: 660.

**19150 Saikosaponin K**

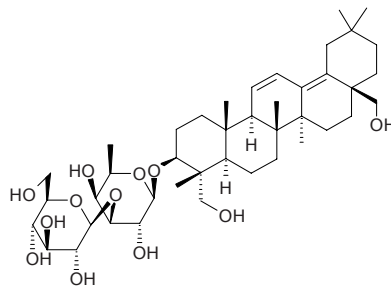
$3\beta,16\beta,23,28$ -Tetrahydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside $C_{47}H_{76}O_{17}$ (913.12). White powder, mp 241~245°C, $[\alpha]_D^{21} = -20.9^\circ$ ($c = 0.12$, EtOH). Source: HEI CHAI HU *Bupleurum smithii*. Ref: 264.

**19151 Saikosaponin L**

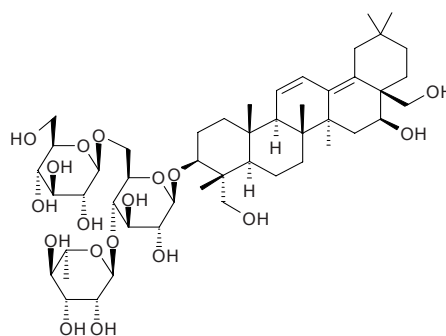
$3\beta,16\alpha,23,28,30$ -Pentahydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside $C_{42}H_{68}O_{14}$ (797.00). White powder, mp 208~212°C. Source: HEI CHAI HU *Bupleurum smithii*. Ref: 264, 407.

**19152 Saikosaponin M**

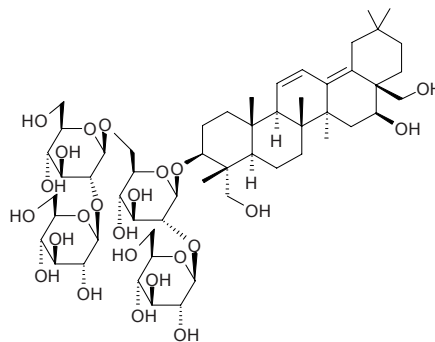
$3\beta,23,28$ -Trihydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside $C_{42}H_{68}O_{12}$ (765.00). White powder, mp 205~210°C, $[\alpha]_D^{21} = -117.6^\circ$ ($c = 0.03$, ethanol). Source: HEI CHAI HU *Bupleurum smithii*. Ref: 313.

**19153 Saikosaponin N**

$3\beta,16\beta,23,28$ -Tetrahydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside $C_{48}H_{78}O_{18}$ (943.15). White powder, mp 217~221°C, $[\alpha]_D^{21} = +81.6^\circ$ ($c = 0.10$, ethanol). Source: HEI CHAI HU *Bupleurum smithii*. Ref: 313.

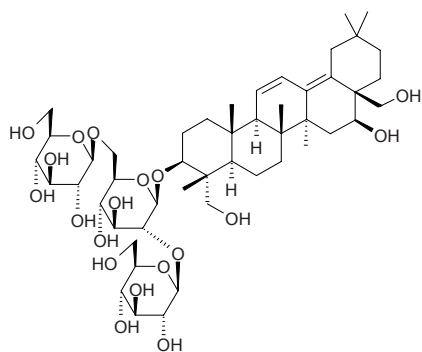
**19154 Saikosaponin O**

[179981-97-6] $C_{54}H_{88}O_{24}$ (1121.29). Source: XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*. Ref: 2247.

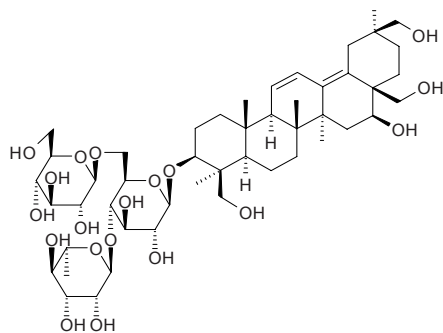


19155 Saikosaponin P

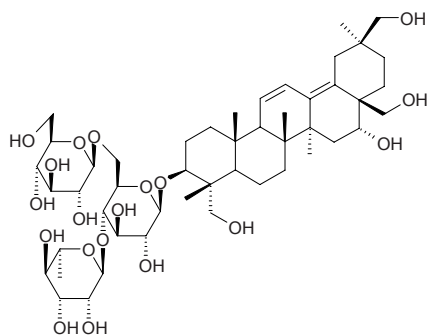
$C_{48}H_{78}O_{19}$ (959.15). Source: XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*. Ref: 2247.

**19156 Saikosaponin Q**

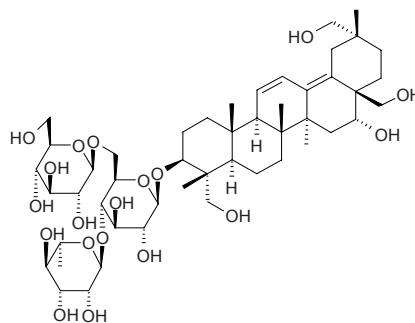
3 β ,16 β ,23,28,30-Pentahydroxyoleana-11,13,(18)-diene-3 β -D-glucopyranosyl-(1 \rightarrow 6)-[α -L-rhamno-pyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside $C_{48}H_{78}O_{19}$ (959.15). White powder, mp 224~227°C. Source: XIAO YE HEI CHAI HU *Bupleurum smithii* var. *parvifolium*. Ref: 327.

**19157 Saikosaponin Q₁**

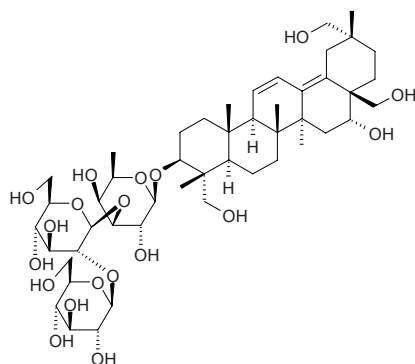
$C_{48}H_{78}O_{19}$ (958.15). White powder, mp 230~246°C. Source: CHAI HU *Bupleurum chinense*. Ref: 8.

**19158 Saikosaponin Q₂**

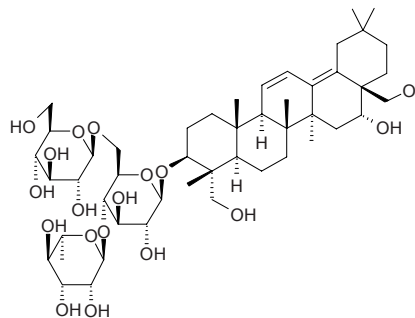
$C_{48}H_{78}O_{19}$ (959.15). Source: CHAI HU *Bupleurum chinense*. Ref: 2247.

**19159 Saikosaponin R**

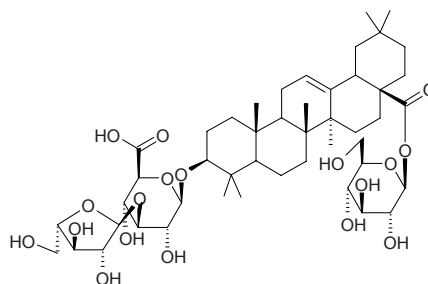
$C_{48}H_{78}O_{19}$ (959.15). Source: HONG CHAI HU *Bupleurum scorzoniferolium*. Ref: 2247.

**19160 Saikosaponin S**

$C_{48}H_{78}O_{18}$ (943.15). Source: HONG CHAI HU *Bupleurum scorzoniferolium*. Ref: 2247.

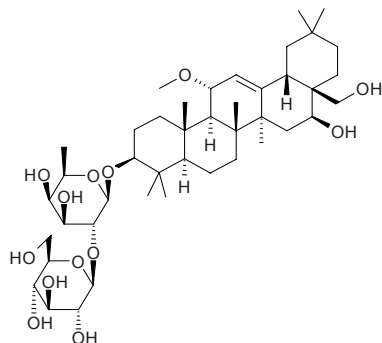
**19161 Saikosaponin S₁**

$C_{47}H_{74}O_{18}$ (927.10). Source: CHAI HU *Bupleurum chinense*. Ref: 660.

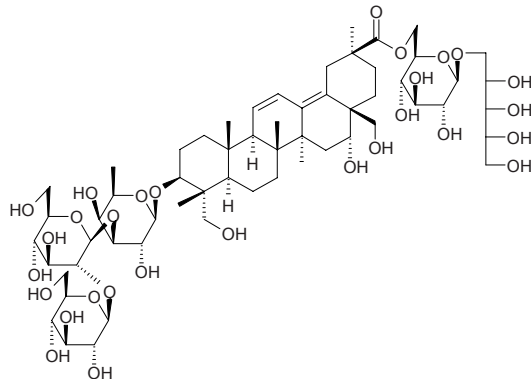


19162 Saikosaponin T

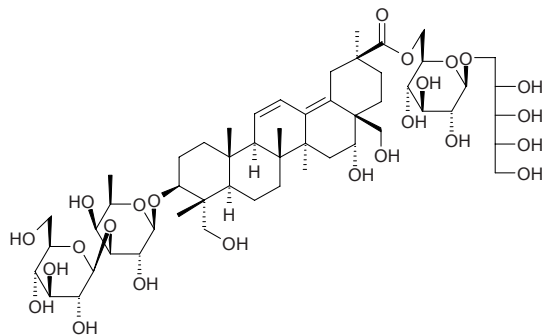
3 β ,16 β ,28-Trihydroxy-11- α - β -methoxy-olean-12-ene-3-*O*- β -*D*-glucosyl-(1 \rightarrow 3)- β -*D*-fucoside C₄₃H₇₂O₁₃ (797.05). White powder, mp 223~225°C, mp 237~240°C. Source: CHAI HU *Bupleurum chinense*, HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 403, 1521.

**19163 Saikosaponin U**

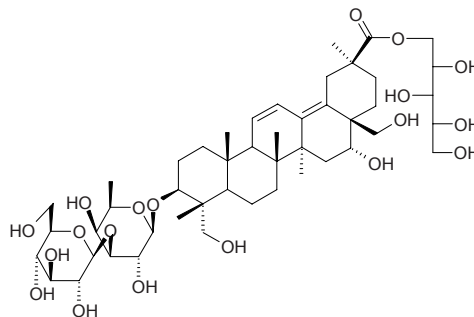
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranosyl]-3 β ,16 α ,23,28-tetrahydroxy-olean-11,13(18)-dien-30-oic acid-30-*O*-[pentito(1 \rightarrow 1)- β -*D*-glucopyranosyl-6-ester C₅₉H₉₆O₂₉ (1269.41). White powder, mp 276~278°C. Source: HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 1879, 2247.

**19164 Saikosaponin V**

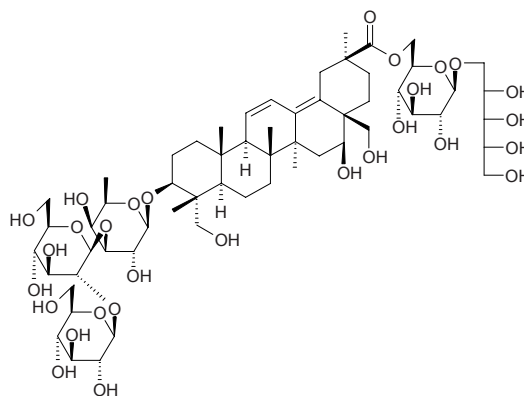
3-*O*-[β -*D*-Glucopyranosyl(1 \rightarrow 3)- β -*D*-fucopyranosyl]-3 β ,16 α ,23,28-tetrahydroxy-olean-11,13(18)-dien-30-oic acid 30-*O*-[pentito(1 \rightarrow 1)- β -*D*-glucopyranosyl-6-ester C₅₃H₈₆O₂₄ (1107.26). White powder, mp 198~201°C. Source: CHAI HU *Bupleurum chinense*, HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 407, 1879.

**19165 Saikosaponin V₁**

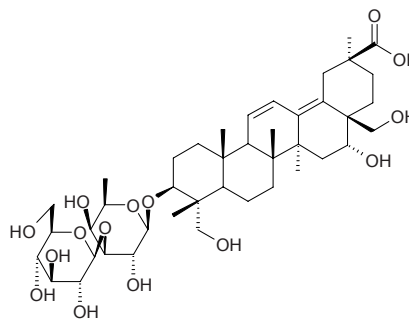
C₄₇H₇₆O₁₉ (945.12). White powder, mp 232~239°C. Source: CHAI HU *Bupleurum chinense*. Ref: 8.

**19166 Saikosaponin V₂**

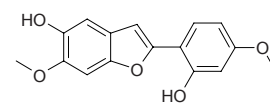
C₅₉H₉₆O₂₉ (1269.41). Source: CHAI HU *Bupleurum chinense*. Ref: 2247.

**19167 Saikosaponin X**

C₄₂H₆₆O₁₅ (810.99). White powder, mp 245~246°C. Source: HONG CHAI HU *Bupleurum scorzonerifolium*. Ref: 8.

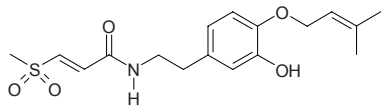
**19168 Sainfuran**

C₁₆H₁₄O₅ (286.29). Pharm: Antifungal (*Cladosporium cladosporioides*); insect antifeedant. Source: LV DOU *Onobrychis viciifolia*. Ref: 658.

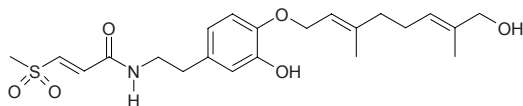


19169 Sakambullin

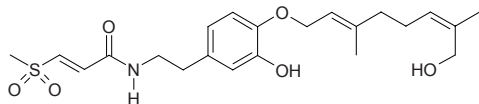
(*E*)-3-(Methylsulfonyl)-propenoic acid 3-hydroxy-4-(3-methyl-2-butenyloxy)-phenethyl amide C₁₇H₂₃NO₅S (353.44). Colorless crystals (Et₂O), mp 111~113°C. Source: LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). Ref: 3956.

**19170 Sakerinol A**

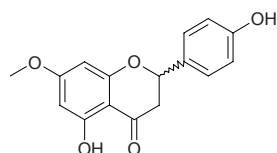
(*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-3-hydroxy-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide C₂₂H₃₁NO₆S (437.56). Colorless crystals (Et₂O), mp 133~135°C. Source: LV ZI SHAN XIAO JU *Glycosmis chlorosperma* (leaf). Ref: 3956.

**19171 Sakerinol B**

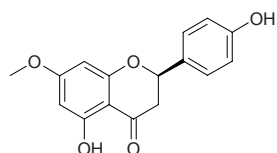
(*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*Z*)-3-hydroxy-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide C₂₂H₃₁NO₆S (437.56). Colorless crystals (Et₂O), mp 98~100°C. Source: JIA ZONG ZHUANG HUA XU SHAN XIAO JU *Glycosmis pseudoracemosa* (leaf). Ref: 3956.

**19172 Sakuranetin**

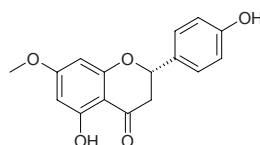
C₁₆H₁₄O₅ (286.29). Pharm: Antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 1.0μg, control Miconazole, MA = 1.0μg; *Cladosporium sphaerospermum*, MA = 1.0μg, control Miconazole, MA = 1.0μg). Source: CU YE MAI HU JIAO *Piper crassinervium*. Ref: 3440.

**19173 (R)-Sakuranetin**

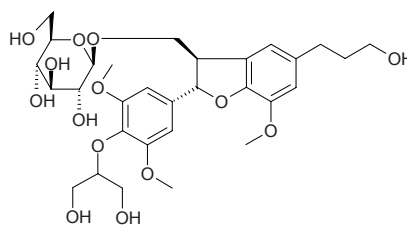
C₁₆H₁₄O₅ (286.29). mp 131~133°C. Source: RI BEN YING HUA *Prunus yedoensis*. Ref: 1521.

**19174 (S)-Sakuranetin**

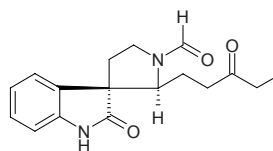
7-*O*-Methylnaringenin [2957-21-3] C₁₆H₁₄O₅ (286.29). mp 152~154°C. Pharm: Antifungal (*Ribes nigrum*, *Grossulariaceae* family); cytotoxic (HeLa, IC₅₀ = 93.1μg/mL, control Mitomycin C, IC₅₀ = 1.7μg/mL)^[4092]; antifungal (*Candida albicans*, *Candida krusei*, MIC = 100μg/mL, control Nystatin, MIC = 2.0μg/mL)^[5201]; antibacterial (*Staphylococcus aureus*, MIC ≈ 100μg/mL, control Chloramphenicol, MIC = 4.0μg/mL; *Mycobacterium smegmatis*, *Mycobacterium intracellulare*, *Mycobacterium xenopi*, MIC ≈ 100μg/mL, control Isoniazide, MIC = 10.0μg/mL)^[5201]. Source: SHU ZHI YAN FU MU *Rhus retinorrhoea* (leaf), TIAN YE HAO *Artemisia campestris*, YING TAO *Prunus pseudocerasus*, *Juglans* sp., *Betula* sp., TUAN JI AI NA XIANG *Blumea glomerata*. Ref: 6, 658, 4092, 5201.

**19175 (-)-Sakuraresinoside**

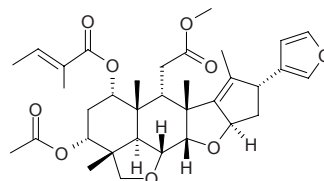
C₃₀H₄₂O₁₄ (626.66). White powder, [α]_D²² = -8.8° (c = 0.20, EtOH). Source: MAO GUO QI *Acer nikoense* (stem cortex: yield = 0.0002%). Ref: 4304.

**19176 Salacin**

C₁₇H₂₀N₂O₃ (300.36). Source: XIA GOU TENG *Uncaria attenuata*. Ref: 5341.

**19177 Salannin**

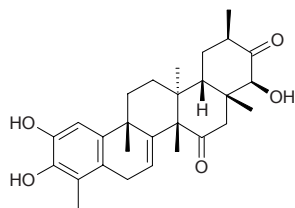
C₃₄H₄₄O₉ (596.73). Pharm: Insect antifeedant. Source: KU LIAN PI *Melia azedarach*. Ref: 658.



19178 Salaquinone B

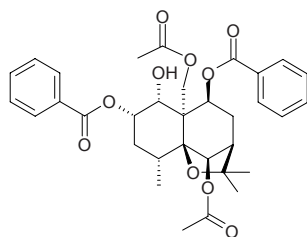
$C_{28}H_{36}O_5$ (452.60). Amorphous powder, $[\alpha]_D^{26} = +69.4^\circ$ ($c = 0.20$, $CHCl_3$).

Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**19179 Salasol B**

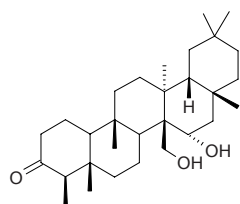
$C_{33}H_{38}O_{10}$ (594.66). White powder, $[\alpha]_D^{26} = +59.0^\circ$ ($c = 0.10$, $CHCl_3$). **Source:**

SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**19180 Salasone D**

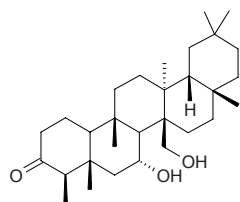
$C_{30}H_{50}O_3$ (458.73). White powder, $[\alpha]_D^{22} = -19.6^\circ$ ($c = 0.50$, $CHCl_3$). **Source:**

SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

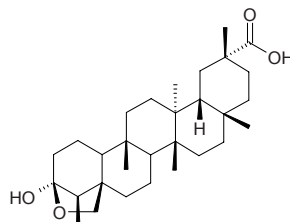
**19181 Salasone E**

$C_{30}H_{50}O_3$ (458.73). White powder, $[\alpha]_D^{23} = -18.5^\circ$ ($c = 0.50$, $CHCl_3$). **Source:**

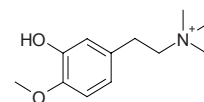
SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

**19182 Salaspermic acid**

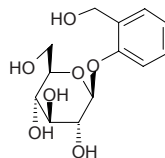
[71247-78-4] $C_{30}H_{48}O_4$ (472.71). **Pharm:** Anti-HIV (inhibits HIV's replication in H9 lymphocyte, $EC_{50} = 10\mu\text{mol/L}$, for non-infected H9 lymphocyte $IC_{50} = 53\mu\text{mol/L}$); HIV reverse transcriptase inhibitor; DPPH scavenger inactive (for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} > 40\mu\text{mol/L}$)^[4378]. **Source:** LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 2, 1763, 4378.

**19183 Salicifoline**

[6882-07-1] $C_{12}H_{20}NO_2^+$ (210.30). **Source:** BAI LAN HUA *Michelia alba*, HE HUA YU LAN *Magnolia grandiflora*, HOU PO *Magnolia officinalis*, RI BEN XIN YI *Magnolia kobus*, YE HE HUA *Magnolia coco*, YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*], ZI YU LAN PI *Magnolia liliiflora*. **Ref:** 6, 625, 1521.

**19184 Salicin**

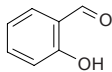
2-(Hydroxymethyl)phenyl- β -D-glucopyranoside; Salicoside [138-52-3] $C_{13}H_{18}O_7$ (286.28). White columnar crystals, mp $199\text{--}202^\circ\text{C}$, $[\alpha]_D^{20} = -45.6^\circ$ (EtOH), soluble in water, hot EtOH, insoluble in $CHCl_3$, ether.^[5507] **Pharm:** Analgesic; antipyretic; antirheumatic; bitter principle (stomachic for sheep); local anesthetic. **Source:** BEI JING YANG *Populus beijingensis* (bark: content = 1.03%)^[5508], DA QING YANG *Populus ussuriensis* (bark: content = 1.42%)^[5508], DA YE YANG *Populus lasiocarpa* (bark: content = 0.52%)^[5508], HE BEI YANG *Populus hopeiensis* (bark: content = 1.89%)^[5508], JIA YANG *Populus canadensis* (bark: content = 0.69%)^[5508], JIAN GAN YANG *Populus nigra* var. *thevestina* (bark: content = 0.49%)^[5508], LIU BAI PI *Salix babylonica*, LIU ZHI *Salix babylonica*, MAO BAI YANG *Populus tomentosa* (bark: content = 0.57%)^[5508], QING YANG *Populus cathayana* (bark: content = 0.70%)^[5508], SHAN YANG *Populus davidiana* (bark: content = 1.87%)^[5508], SHUI YANG MU BAI PI *Salix purpurea*, SHUI YANG ZHI YE *Salix purpurea*, XIANG YANG *Populus koreana* (bark: content = 0.68%)^[5508], XIANG YE YANG *Populus adenopoda* (bark: content = 1.24%)^[5508], XIAO HEI YANG *Populus xiaohei* (bark: content = 0.72%)^[5508], XIAO QING YANG *Populus pseudo-simonii* (bark: content = 1.01%)^[5508], XIAO YE YANG *Populus simonii* (bark: content = 2.16%)^[5508], XIN JIANG YANG *Populus alba* var. *pyramidalis* (bark: content = 1.25%)^[5508], YIN BAI YANG *Populus alba* (bark: content = 2.63%)^[5508], YING YE JIA MI *Viburnum prunifolium*, *Populus* sp., *Salix* sp. (2%–4%; the compound was isolated from the plant in 1942)^[5505]. **Ref:** 6, 269, 658, 5505, 5507, 5508.



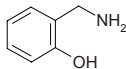
19185 Salicylaldehyde

$C_7H_6O_2$ (122.12). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*].

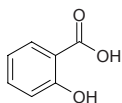
Ref: 660.

**19186 Salicylamine**

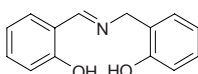
[932-30-9] C_7H_9NO (123.16). mp 129°C. Source: QIAO MAI *Fagopyrum esculentum*. Ref: 6.

**19187 Salicylic acid**

Phenol-2-carboxylic acid [69-72-7] $C_7H_6O_3$ (138.12). mp 159°C, bp 211°C/20mmHg. Pharm: Anti-fertility agent (inhibits spermatogenesis); antiseptic; used in treatment of dermatosis and tinea. Source: BAN LAN GEN *Isatis indigotica* (dried root: mean content of 5 origins = 0.00063%)^[5508], BIAN FU GE GEN *Menispermum dauricum*, DA CHE QIAN *Plantago major*, DIAN BAI ZHU SHU *Gaultheria yunnanensis* (root: content scope of 3 origins = 0.0035%–0.0063%, mean content = 0.0050%)^[5508], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA HAO *Artemisia annua*, KU BAO *Sauromatum guttatum*, MA LIU YE *Pterocarya stenoptera*, MIAN HUA *Gossypium herbaceum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHENG MA *Cimicifuga foetida*, XUAN FU HUA *Inula britannica*, YU JIN XIANG *Tulipa gesneriana*. Ref: 2, 658, 660, 3792, 5508.

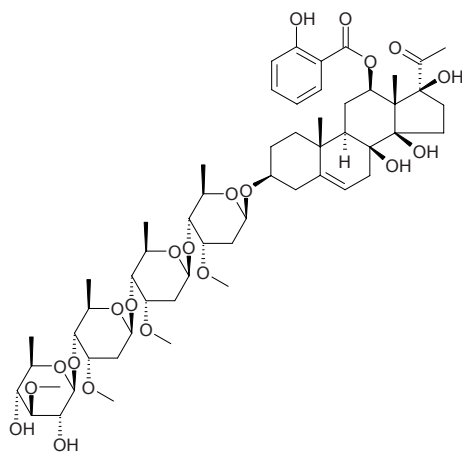
**19188 N-Salicylidene-salicylamine**

$C_{14}H_{13}NO_2$ (227.27). Source: QIAO MAI *Fagopyrum esculentum*. Ref: 6.

**19189 12-O-Salicyloyldeacetylmetaplexigenin**

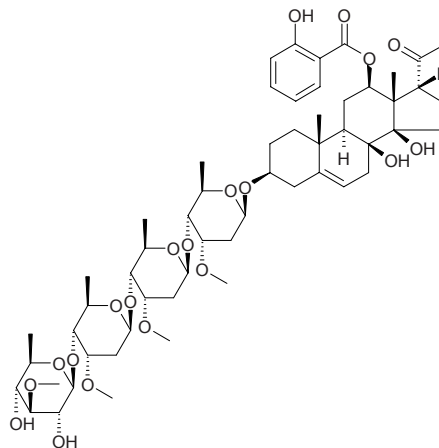
$C_{56}H_{84}O_{21}$ (1093.28). Amorphous powder, $[\alpha]_D^{22} = +6.48^\circ$ ($c = 1.06$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

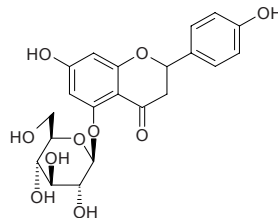
**19190 12-O-Salicyloyllineolon**

$C_{56}H_{84}O_{20}$ (1077.28). Amorphous powder, $[\alpha]_D^{24} = -6.0^\circ$ ($c = 0.39$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

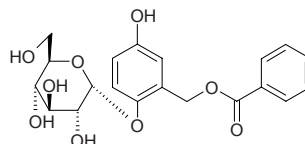
**19191 Salipurposide**

$C_{21}H_{22}O_{10}$ (434.40). mp 227°C. Source: SHUI YANG MU BAI PI *Salix purpurea*, TAO ZHI *Prunus persica*. Ref: 6.

**19192 Salireposide**

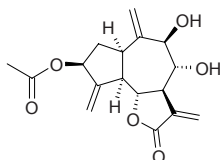
1-Benzoylmethyl-5-hydroxyphenyl- α -D-glucopyranoside $C_{20}H_{22}O_9$ (406.39).

White powder, $[\alpha]_D^{23} = -9.1^\circ$ ($c = 0.21$, MeOH). Pharm: Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (544 \pm 0.02) \mu\text{mol/L}$, control Cysteine, $IC_{50} = (274 \pm 0.07) \mu\text{mol/L}$)^[4093]; thymidine phosphorylase inhibitor (*in vitro*, $IC_{50} = (354.2 \pm 5.7) \mu\text{mol/L}$, control 7-Deazaxanthine, $IC_{50} = (38.68 \pm 4.42) \mu\text{mol/L}$)^[4093]. Source: BEI JING YANG *Populus beijingensis* (bark: content = 0.05%)^[5508], DA QING YANG *Populus ussuriensis* (bark: content = 0.40%)^[5508], HE BEI YANG *Populus hopeiensis* (bark: content = 0.53%)^[5508], MAO BAI YANG *Populus tomentosa* (bark: content = 0.54%)^[5508], QING YANG *Populus cathayana* (bark: content = 0.22%)^[5508], SHAN YANG *Populus davidiana* (bark: content = 0.69%)^[5508], XIANG YANG *Populus koreana* (bark: content = 0.93%)^[5508], XIANG YE YANG *Populus adenopoda* (bark: content = 0.16%)^[5508], XIAO HEI YANG *Populus xiaohai* (bark: content = 0.09%)^[5508], XIAO QING YANG *Populus pseudo-simonii* (bark: content = 0.05%)^[5508], XIN JIANG YANG *Populus alba* var. *pyramidalis* (bark: content = 0.76%)^[5508], YIN BAI YANG *Populus alba* (bark: content = 0.80%)^[5508], ZHU ZI SHU *Symplocos racemosa*. Ref: 3374, 4093, 5508.

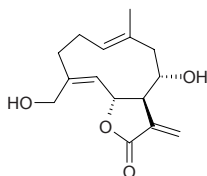


19193 Salograviolide A

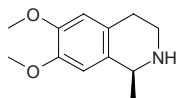
[145274-56-2] C₁₇H₂₀O₆ (320.35). **Pharm:** Antifungal (*Aspergillus niger*, MIC = 6.25 μg/mL; *Aspergillus ochraceus*, MIC = 3.13 μg/mL; *Penicillium ochrocloron*, MIC = 25 μg/mL; *Cladosporium cladosporioides*, MIC = 3.13 μg/mL; *Fusarium tricinctum*, MIC = 12.5 μg/mL; *Phomopsis helianthi*, MIC = 1.56 μg/mL, *Trichoderma viride*, inactive). **Source:** NI GU LA SHI CHE JU *Centaurea nicolai*. **Ref:** 2361.

**19194 Salonenolide**

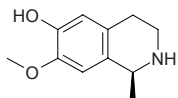
C₁₅H₂₀O₄ (264.33). **Pharm:** Antineoplastic; cytotoxic; insect antifeedant. **Source:** family Asteraceae spp. **Ref:** 658.

**19195 Salsolidine**

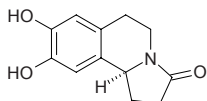
C₁₂H₁₇NO₂ (207.26). Lamellar crystals (water), mp 69~70°C, [α]_D = -63° (ethanol), hydrochloride, white or yellowish crystals powder, mp 235~236°C, [α]_D¹⁸ = -25 (water). **Pharm:** Antispasmodic (rat intestine, spasm caused by BaCl₂); antihypertensive (inhibits vasomotorium in medulla); LD₅₀ (rat, ip) = 300 mg/kg. **Source:** ZHU MAO CAI *Salsola collina*. **Ref:** 661, 658.

**19196 Salsoline**

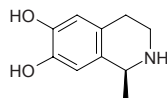
C₁₁H₁₅NO₂ (193.25). Grass-yellow acicular crystals (methanol or ethanol), mp 221°C, [α]_D²⁰ = +34.5° (c = 1, 0.1 mol/L hydrochloric acid). **Pharm:** Analgesic; antihypertensive (inhibits vasomotorium in medulla); increases tolerance to anoxia (mus); LD₅₀ (mus, iv) = 140 mg/kg. **Source:** ZHU MAO CAI *Salsola collina*. **Ref:** 661.

**19197 Salsoline A**

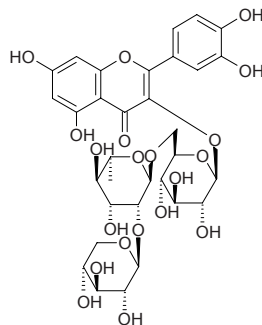
C₁₂H₁₃NO₃ (219.24). Light purple lamellar crystals (Me₂CO), mp 257~259°C, [α]_D²⁵ = -82.6° (c = 0.1, MeOH). **Source:** ZHU MAO CAI *Salsola collina* (aerial parts). **Ref:** 4846.

**19198 (-)-Salsolinol**

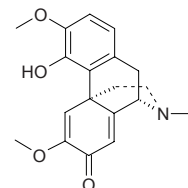
C₁₀H₁₃NO₂ (179.22). Unsteady hydrobromide, tiny cream-colored prismatic crystals (ethanol-ether), mp 195~198°C. **Pharm:** Analgesic; increases blood pressure and raises heart rate (rat, iv); monoamine oxidase inhibitor; neuromuscular blocker; stimulates atrium (gpg, *in vitro*). **Source:** FEN BA JIAO *Musa paradisiaca*, KE KE *Theobroma cacao*, NIU XIN FAN LI ZHI *Annona reticulata*, WU TOU *Aconitum carnichaeli*. **Ref:** 661.

**19199 Saluenin**

Cetin 3-*O*-β-*D*-xylopyranosyl-(1→2)-α-*L*-rhamnopyranosyl-(1→6)-β-*D*-glucopyranoside C₃₂H₃₈O₂₀ (742.65). Green-yellow powder. **Source:** NU JIANG SHAN CHA *Camellia saluenensis*. **Ref:** 889.

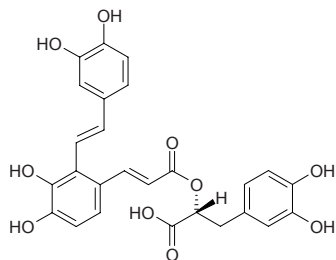
**19200 (-)-Salutaridine**

Sinoacutine [4090-18-0] C₁₉H₂₁NO₄ (327.38). mp 198°C. **Pharm:** Cytotoxic (*in vitro*, HepG₂, IC₅₀ = 10.2 μg/mL; Hep2,2,15, IC₅₀ = 10.4 μg/mL)^[3083]; analgesic (cat). **Source:** JU HUA HUANG LIAN *Corydalis pallida*, QING FENG TENG *Sinomenium acutum*, XI SHEN SHAN ZI JIN *Corydalis pallida* var. *tenuis*, XUE SAN SHU *Stephania dielsiana*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem, leaf), ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6, 658, 3083, 5501.

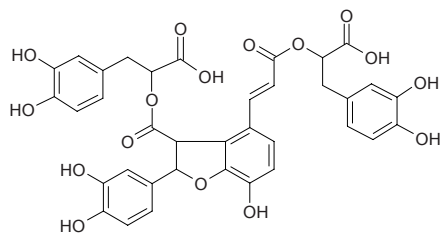


19201 Salvianolic acid A

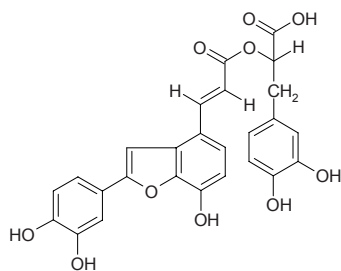
[96574-01-5] $C_{26}H_{22}O_{10}$ (494.46). Amorphous yellow compound, $[\alpha]_D^{18} = +41^\circ$ ($c = 0.099$, ethanol). **Pharm:** Antineoplastic; free radical scavenger (against damage in mitochondria of rat hepatic and cardiac cells caused by oxygen free radicals); inhibits gastric secretion (rat); antioxidant (inhibits lipid peroxidation strongly, induced by vitamin C-nicotinamide ADP and Fe^{2+} -cysteine in microsome of murine cerebral, hepatic and renal cells); antioxidant (*in vitro*, Cu^{2+} induced LDL peroxidation assay, $IC_{50} = 0.59 \mu\text{mol/L}$; control Probuocol, $IC_{50} = 4.7 \mu\text{mol/L}$)^[4628]; H^+ , K^+ -ATPase inhibitor (inhibits secretion and ulcer, $IC_{50} = 0.52 \mu\text{mol/L}$); pNPPase inhibitor (inhibits secretion and ulcer, $IC_{50} = 1.7 \mu\text{mol/L}$); 5-lipoxygenase inhibitor ($IC_{50} = 0.38 \mu\text{mol/L}$); aldose reductase inhibitor (eye lens, $IC_{50} = 9.80 \text{nmol/L}$); protects against damage of cardiac muscle (rat, *in vitro*, caused by ischemia-perfusion); reduces learning disorder in mus caused by ischemia-perfusion; reverses action of potassium channel in myocardium membrane. **Source:** DAN SHEN *Salvia miltiorrhiza*, ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00093%)^[4628]. **Ref:** 658, 900, 4628.

**19202 Salvianolic Acid B**

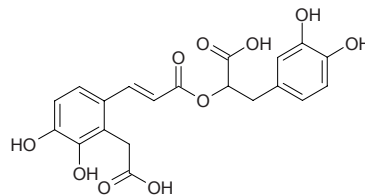
$C_{36}H_{33}O_{16}$ (718.63). Purity $\geq 96\%$. **Pharm:** Angiogenesis enhancer (*in vitro* murine SVR endothelial cells, up-regulation of vascular endothelial growth factor (VEGF) and its receptors VEGF-R1, VEGF-R2 gene)^[5350]. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 5350.

**19203 Salvianolic acid C**

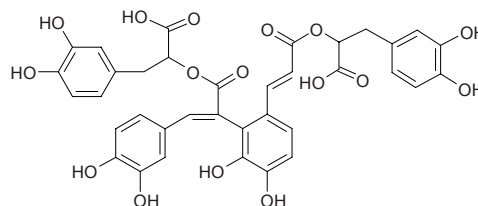
[115841-09-3] $C_{26}H_{20}O_{10}$ (492.44). Amorphous yellow compound, $[\alpha]_D^{14} = +70^\circ$ ($c = 0.12$, ethanol). **Pharm:** Free radical scavenger; platelet aggregation inhibitor. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 900.

**19204 Salvianolic acid D**

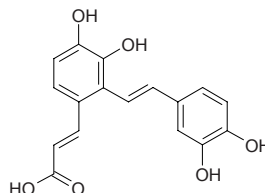
$C_{20}H_{18}O_{10}$ (418.36). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660.

**19205 Salvianolic acid E**

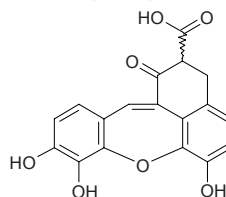
$C_{36}H_{30}O_{16}$ (718.63). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660.

**19206 Salvianolic acid F**

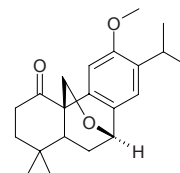
$C_{17}H_{14}O_6$ (314.3). **Pharm:** Antioxidant (*in vitro*, Cu^{2+} induced LDL peroxidation assay, $IC_{50} = 5.44 \mu\text{mol/L}$; control Probuocol, $IC_{50} = 4.7 \mu\text{mol/L}$)^[4628]. **Source:** ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00016%). **Ref:** 4628.

**19207 Salvianolic acid G**

$C_{18}H_{12}O_7$ (340.29). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660.

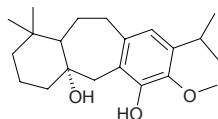
**19208 Salvibracteone**

1-Oxo-12-methoxy-7,20-epoxyabieta-8,11,13-trienestructureforsalvibractone $C_{21}H_{28}O_3$ (328.46). $[\alpha]_D = 0^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** BAO PIAN SHU WEI CAO *Salvia bracteata* (root). **Ref:** 2406.

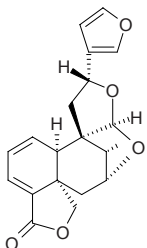


19209 Salvicanol

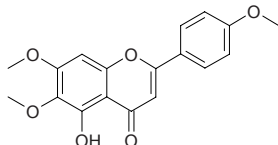
$C_{21}H_{32}O_3$ (332.49). Source: GAN XI SHU WEI CAO *Salvia przewalskii*, JIA NA LI SHU WEI CAO *Salvia canariensis*. Ref: 1521, 4538.

**19210 Salvifarcin**

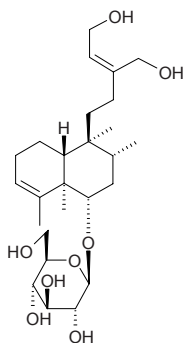
$C_{20}H_{20}O_5$ (340.38). Source: DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). Ref: 3901.

**19211 Salvigenin**

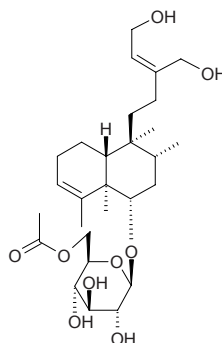
7-*O*-Methylpectolinarigenin; Psathyrotin [19103-54-9] $C_{18}H_{16}O_6$ (328.32). Yellowish acicular crystals, mp 212–218°C (benzene–methanol). Pharm: Induces cell differentiation (mus myelocytic leukemia cells, strongly, in 50 μmol/L and 5 μmol/L, growing rate = 67% and 76% respectively, activity of macrophage the former > 10%); inhibits influenza virus sialoma (InRt = 8.2%); antioxidant inactive (ferric thiocyanate method, 0.5 mmol/L, peroxidation value = 100%, control BHA, 0.5 mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5 mmol/L, peroxidation value = 14.7%)^[4508]. Source: CHI YANG *Alnus japonica*, JU PI *Citrus reticulata*, LIU JI NU *Artemisia anomala* (whole herb with flowers), MAO XU CAO *Clerodendranthus spicatus*, SHUI HU MAN *Clerodendron inerme*, TIAN SHE CAO *Lippia dulcis* (aerial parts), YANG SHI CAO *Achillea millefolium*. Ref: 660, 900, 4508.

**19212 Salvigreside A**

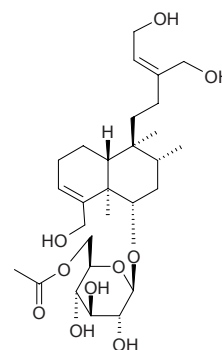
6 α -*O*-(β -*D*-Glucopyranosyl)-15,16-dihydroxycleroda-3,13(14)-dien $C_{26}H_{44}O_8$ (484.64). Colorless amorphous powder, $[\alpha]_D^{20} = -17.8^\circ$ ($c = 0.09$, MeOH). Source: GE SHI SHU WEI CAO *Salvia greggii* (aerial parts). Ref: 3859.

**19213 Salvigreside B**

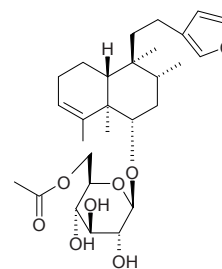
6 α -*O*-(6-*O*-Acetyl- β -*D*-glucopyranosyl)-15,16-dihydroxycleroda-3,13(14)-dien $C_{28}H_{46}O_9$ (526.67). Colorless amorphous powder, $[\alpha]_D^{25} = -17.2^\circ$ ($c = 0.61$, MeOH). Source: GE SHI SHU WEI CAO *Salvia greggii* (aerial parts). Ref: 3859.

**19214 Salvigreside C**

6 α -*O*-(6-*O*-Acetyl- β -*D*-glucopyranosyl)-15,16,18-trihydroxycleroda-3,13(14)-dien $C_{28}H_{46}O_{10}$ (542.67). Colorless amorphous powder, $[\alpha]_D^{25} = -12.5^\circ$ ($c = 0.28$, MeOH). Source: GE SHI SHU WEI CAO *Salvia greggii* (aerial parts). Ref: 3859.

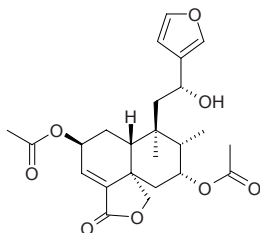
**19215 Salvigreside D**

6 α -*O*-(6-*O*-Acetyl- β -*D*-glucopyranosyl)-15,16-epoxycleroda-3,13(16),14-trien $C_{28}H_{42}O_8$ (506.64). Colorless amorphous powder, $[\alpha]_D^{25} = -16.1^\circ$ ($c = 0.74$, MeOH). Source: GE SHI SHU WEI CAO *Salvia greggii* (aerial parts). Ref: 3859.

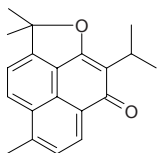


19216 Salvigresin

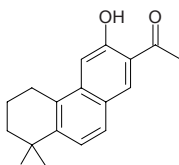
$C_{24}H_{30}O_8$ (446.50). Colorless prisms [*n*-hexane:EtOAc = 1:1], mp 242~245°C, $[\alpha]_D^{25} = -118.6^\circ$ ($c = 0.22$, $CHCl_3$). Source: GE SHI SHU WEI CAO *Salvia greggii*. Ref: 3413.

**19217 Salvilenone**

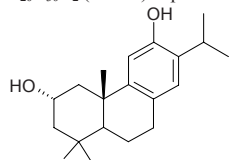
$C_{20}H_{20}O_2$ (292.38). mp 141°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2090.

**19218 Salvinone**

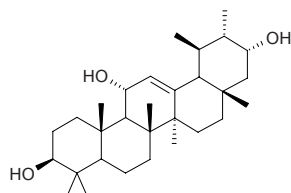
$C_{18}H_{20}O_2$ (268.36). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 660.

**19219 Salviol**

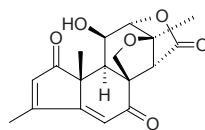
$C_{20}H_{30}O_2$ (302.46). mp 108°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2.

**19220 Salvistamineol**

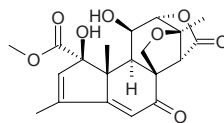
3 β ,11 α ,21 α -Trihydroxyurs-12-ene $C_{30}H_{50}O_3$ (458.73). mp 268~270°C, $[\alpha]_D^{25} = +44^\circ$ ($c = 0.16$, $CHCl_3$). Pharm: Cytotoxic (A2780, $IC_{50} = 21.0\mu g/mL$, control Actinomycin D, $IC_{50} = 0.001\mu g/mL$; LNCaP, $IC_{50} > 20\mu g/mL$; KB, $IC_{50} > 20\mu g/mL$; Col2, $IC_{50} > 20\mu g/mL$; LU1, $IC_{50} > 20\mu g/mL$). Source: XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5400.

**19221 Samaderine A**

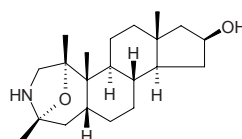
$C_{18}H_{18}O_6$ (330.34). Pharm: Cytotoxic (leukemia). Source: MA DAO HUANG LIAN SHU *Samadera madagascariensis* (leaf), family Simarubaceae spp. Ref: 658, 5334.

**19222 Samaderolactone A**

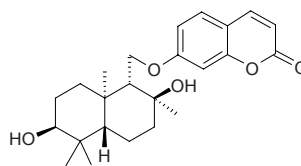
$C_{20}H_{22}O_8$ (390.39). Yellow amorphous solid, $[\alpha]_D = +14^\circ$ ($c = 0.066$, $CHCl_3$). Source: MA DAO HUANG LIAN SHU *Samadera madagascariensis* (leaf). Ref: 5334.

**19223 Samandarine**

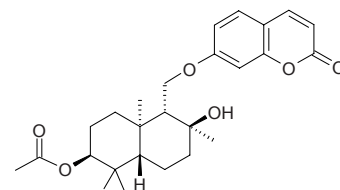
[467-51-6] $C_{19}H_{31}NO_2$ (305.46). Pharm: Causes local paralysis; increases blood pressure; neurotoxin; LD (rbt) = $1\mu g/kg$. Source: BAN YUAN *Necturus maculosus*. Ref: 658.

**19224 Samarcandin**

$C_{24}H_{32}O_5$ (400.52). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

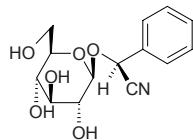
**19225 Samarcandin acetate**

$C_{26}H_{34}O_6$ (442.56). Source: *Ferula pseudooreoselinum*. Ref: 660.

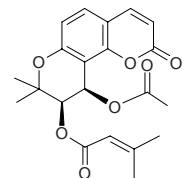


19226 Sambunigrin

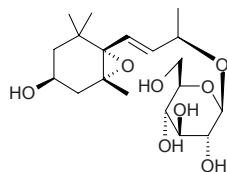
$C_{14}H_{17}NO_6$ (295.29). **Pharm:** Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, $1\mu\text{mol/L}$, StRt or InRt < 10%, $10\mu\text{mol/L}$, InRt = (10~30)%, $100\mu\text{mol/L}$, InRt = (31~60)%, 1mmol/L , InRt > 61%; *Raphanus sativus*, $1\mu\text{mol/L}$, StRt = (10~30)%, $10\mu\text{mol/L}$, StRt = (10~30)%, $100\mu\text{mol/L}$, StRt or InRt < 10%, 1mmol/L , InRt > 61%; *Allium cepa*, $1\mu\text{mol/L}$, StRt or InRt < 10%, $10\mu\text{mol/L}$, InRt = (10~30)%, $100\mu\text{mol/L}$, InRt = (31~60)%, 1mmol/L , InRt = (31~60)%). **Source:** XI YANG JIE GU MU *Sambucus nigra*. **Ref:** 5217.

**19227 Samidin**

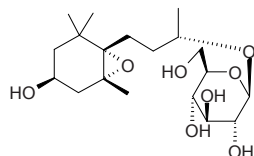
[477-33-8] $C_{21}H_{22}O_7$ (386.41). Prismatic crystals(ethanol), mp 135~137°C, $[\alpha]_D^{20} = +26^\circ$ ($c = 1.0$, chloroform), $+100^\circ$ ($c = 1.0$, dioxane). **Pharm:** Coronary vasodilator; LD_{50} (rat, orl) = 1469mg/kg. **Source:** CHI A MI *Ammi visnaga*, XUAN NIU XIE HAO *Seseli tortuosum*. **Ref:** 661.

**19228 Sammangaoside A**

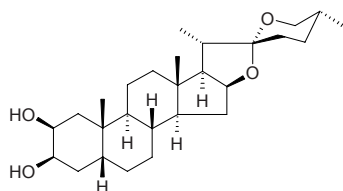
(3*S*,5*R*,6*S*,7*E*,9*S*)-3-Hydroxy-5,6-epoxy- β -ionyl-9-*O*- β -glucopyranoside $C_{19}H_{32}O_8$ (388.46). Amorphous, $[\alpha]_D^{20} = -99.1^\circ$ ($c = 0.8$, MeOH). **Source:** KU LANG SHU *Clerodendrum inerme* (aerial parts). **Ref:** 5186.

**19229 Sammangaoside B**

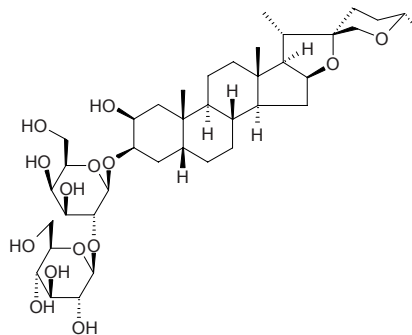
(3*S*,5*R*,6*S*,9*R*)-3-Hydroxy-5,6-epoxy- β -dihydroionyl-9-*O*- β -glucopyranoside $C_{19}H_{34}O_8$ (390.48). Amorphous, $[\alpha]_D^{20} = -35.0^\circ$ ($c = 0.4$, MeOH). **Source:** KU LANG SHU *Clerodendrum inerme* (aerial parts). **Ref:** 5186.

**19230 Samogenin**

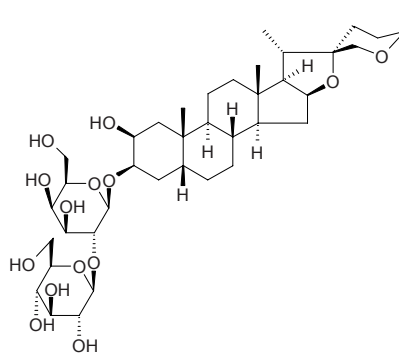
$C_{27}H_{44}O_4$ (432.65). mp 212°C. **Source:** *Agave yuccaeifolia*. **Ref:** 2503.

**19231 (25*R*)-Samogenin 3-*O*- β -*D*-glucopyranosyl (1→2)- β -*D*-galactopyranoside**

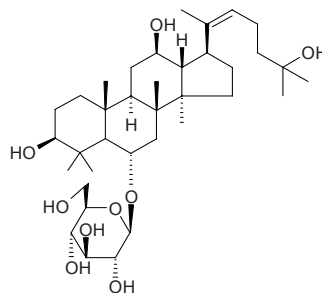
$C_{39}H_{64}O_{14}$ (756.94). White amorphous powder, mp 270~272°C. **Pharm:** Platelet aggregation inhibitor. **Source:** GUA LOU *Trichosanthes kirilowii*, XIE BAI *Allium macrostemon*. **Ref:** 2466.

**19232 (25*S*)-Samogenin 3-*O*- β -*D*-glucopyranosyl (1→2)- β -*D*-galactopyranoside**

$C_{39}H_{64}O_{14}$ (756.94). White amorphous powder. **Pharm:** Platelet aggregation inhibitor. **Source:** GUA LOU *Trichosanthes kirilowii*, XIE BAI *Allium macrostemon*. **Ref:** 2466.

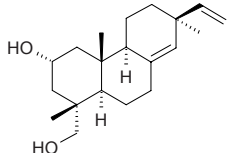
**19233 Sanchinoside B₁**

Notoginsenoside B₁ $C_{36}H_{62}O_9$ (638.89). White powder, mp 144~146°C. **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. **Ref:** 28, 2762

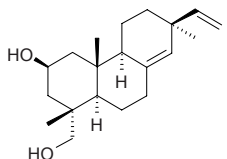


19234 ent-8(14),15-Sandaracopimaradiene-2 α ,18-diol

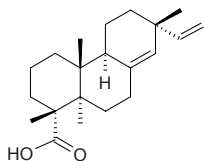
$C_{20}H_{32}O_2$ (304.48). Colorless crystals (methanol), mp 182°C, $[\alpha]_D = +8.77^\circ$ ($c = 0.001$, $CHCl_3$). **Pharm:** Antileishmanial (*Leishmania donovani* promastigotes, $IC_{50} = 16.8\mu\text{mol/L}$, SI = 1.12, control Pentamidine, $IC_{50} = 0.40\mu\text{mol/L}$, SI = 0.42, amastigotes, $IC_{50} > 90\mu\text{mol/L}$, control Pentostam, $IC_{50} = 9.75\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 166\mu\text{mol/L}$, SI = 0.29, control Chloroquine, $IC_{50} = 0.59\mu\text{mol/L}$, SI = 272.20); antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, $IC_{50} > 30\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.00034\mu\text{mol/L}$); cytotoxic (KB cells, $IC_{50} = 48\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.17\mu\text{mol/L}$). **Source:** *Guarea rhopalocarpa* (leaf). **Ref:** 5127.

**19235 ent-8(14),15-Sandaracopimaradiene-2 β ,18-diol**

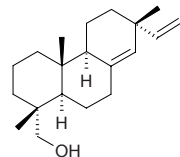
$C_{20}H_{32}O_2$ (304.48). Colorless crystals (methanol), mp 156°C, $[\alpha]_D = +11.36^\circ$ ($c = 0.001$, $CHCl_3$). **Pharm:** Antileishmanial (*Leishmania donovani* promastigotes, $IC_{50} = 49.7\mu\text{mol/L}$, SI = 1.52, control Pentamidine, $IC_{50} = 0.40\mu\text{mol/L}$, SI = 0.42, amastigotes, $IC_{50} > 90\mu\text{mol/L}$, control Pentostam, $IC_{50} = 9.75\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum* K1, $IC_{50} = 104\mu\text{mol/L}$, SI = 0.73; control Chloroquine, $IC_{50} = 0.59\mu\text{mol/L}$, SI = 272.20); antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, $IC_{50} > 30\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.00034\mu\text{mol/L}$); cytotoxic (KB cells, $IC_{50} = 75.8\mu\text{mol/L}$, control Pentamidine, $IC_{50} = 0.17\mu\text{mol/L}$). **Source:** *Guarea rhopalocarpa* (leaf). **Ref:** 5127.

**19236 Sandaracopimaric acid**

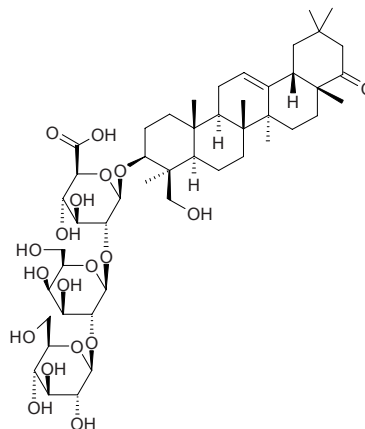
Cryptopimaric acid $C_{20}H_{30}O_2$ (302.46). mp 170–172°C (MeOH– $CHCl_3$), $[\alpha]_D^{25} = -18.1^\circ$ ($c = 0.95$, $CHCl_3$); mp 165–168°C, $[\alpha]_D^{25} = -19.8^\circ$. **Pharm:** Cytotoxic (EBV-EA inhibitor TPA-induced, mol ratio/TPA = 1000, InRt = 100%)^[5352]. **Source:** QI LIN JIE *Daemonorops draco*, RI BEN XIANG BAI JING PI *Thuja standishii*. **Ref:** 660, 5352.

**19237 Sandaracopimarinol**

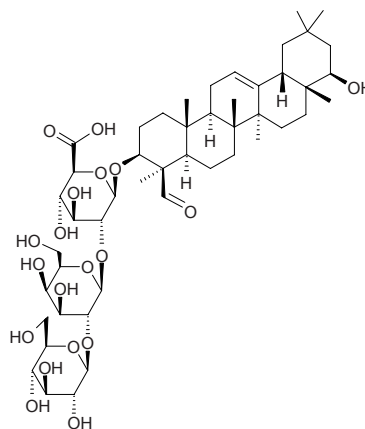
$C_{20}H_{32}O$ (288.48). mp 63–65°C. **Source:** LIU SHAN *Cryptomeria fortunei*. **Ref:** 6.

**19238 Sandosaponin A**

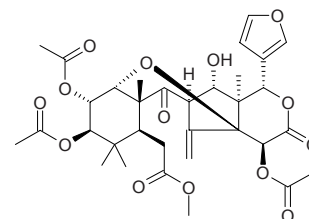
Soyasaponin Bd $C_{48}H_{76}O_{19}$ (957.12). Colorless crystals (water–MeOH), mp 200–201°C, $[\alpha]_D^{23} = -5.8^\circ$ ($c = 0.8$, MeOH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneum oozing cells, caused by antigen-antibody reaction, $10\mu\text{mol/L}$, InRt = 58.2%). **Source:** BAI FAN DOU *Phaseolus vulgaris*. **Ref:** 990.

**19239 Sandosaponin B**

$C_{48}H_{76}O_{19}$ (957.12). Colorless thin crystals (water–MeOH), mp 212–213°C, $[\alpha]_D^{28} = +34.8^\circ$ ($c = 0.3$, methanol). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneum oozing cells, caused by antigen-antibody reaction, $10\mu\text{mol/L}$, InRt = 59.4%). **Source:** BAI FAN DOU *Phaseolus vulgaris*. **Ref:** 990.

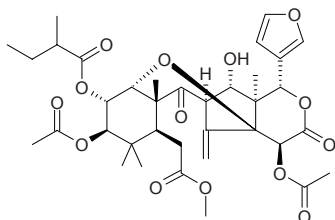
**19240 Sandrapin A**

$C_{33}H_{40}O_{14}$ (660.68). Colorless needles, mp 252–255°C, $[\alpha]_D^{25} = +6.6^\circ$ ($c = 1.1$, $CHCl_3$). **Source:** YIN DU SHAN DAO LIAN YE *Sandoricum koetjape* [Syn. *Sandoricum indicum*]. **Ref:** 2585, 3494.

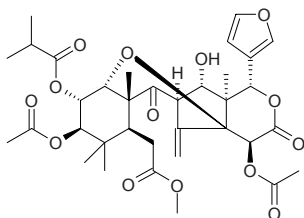


19241 Sandrapin B

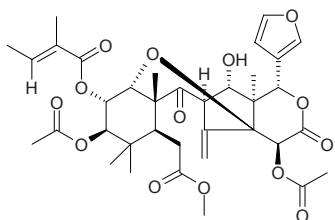
$C_{36}H_{46}O_{14}$ (702.76). Colorless needles, mp 210~213°C, $[\alpha]_D^{25} = +6.0^\circ$ ($c = 0.8$, $CHCl_3$). Source: YIN DU SHAN DAO LIAN YE *Sandoricum koetjape* [Syn. *Sandoricum indicum*]. Ref: 2585, 3494.

**19242 Sandrapin C**

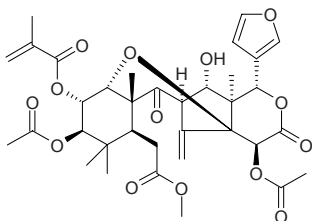
$C_{35}H_{44}O_{14}$ (688.73). Colorless needles, mp 205~208°C, $[\alpha]_D^{25} = +7.0^\circ$ ($c = 0.8$, $CHCl_3$). Source: YIN DU SHAN DAO LIAN YE *Sandoricum koetjape* [Syn. *Sandoricum indicum*]. Ref: 2585, 3494.

**19243 Sandrapin D**

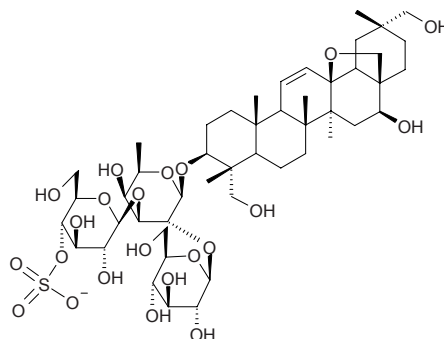
$C_{36}H_{44}O_{14}$ (700.74). Colorless needles, mp 209~211°C, $[\alpha]_D = +12.5^\circ$ ($c = 0.7$, MeOH). Source: YIN DU SHAN DAO LIAN YE *Sandoricum koetjape* [Syn. *Sandoricum indicum*]. Ref: 2585.

**19244 Sandrapin E**

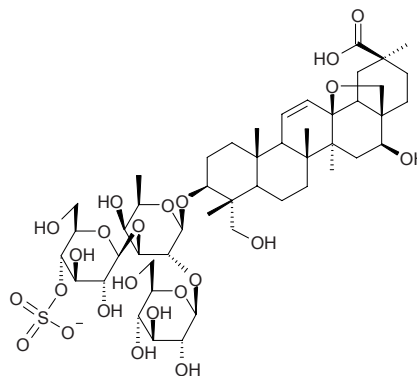
$C_{35}H_{42}O_{14}$ (686.72). Colorless needles, mp 209~210°C, $[\alpha]_D = +11.5^\circ$ ($c = 0.4$, MeOH). Source: YIN DU SHAN DAO LIAN YE *Sandoricum koetjape* [Syn. *Sandoricum indicum*]. Ref: 2585.

**19245 Sandrosaponin II**

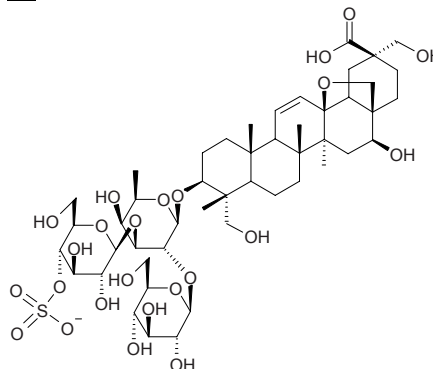
13,28-Epoxy-3 β ,16 β ,23,29-tetrahydroxyolean-11-en-3- β -yl β -D-glucopyranosyl-(1 \rightarrow 2)-[4-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 3)] β -D-fucopyranoside $C_{48}H_{77}O_{22}S^-$ (1038.20). Amorphous powder, $[\alpha]_D = +47.8^\circ$ ($c = 0.2$, MeOH). Source: JIAN YING CHAI HU *Bupleurum rigidum* (aerial parts). Ref: 3985.

**19246 Sandrosaponin III**

13,28-Epoxy-3 β ,16 β ,23-trihydroxyolean-11-en-3- β -yl-30-oic acid β -D-glucopyranosyl-(1 \rightarrow 2)-[4-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 3)] β -D-fucopyranoside $C_{48}H_{75}O_{23}S^-$ (1052.18). Amorphous powder, $[\alpha]_D = +53.5^\circ$ ($c = 0.18$, MeOH). Source: JIAN YING CHAI HU *Bupleurum rigidum* (aerial parts). Ref: 3985.

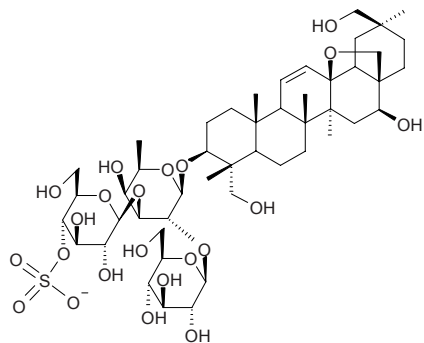
**19247 Sandrosaponin IV**

13,28-Epoxy-3 β ,16 β ,23,29-tetrahydroxyolean-11-en-3- β -yl 30-oic acid β -D-glucopyranosyl-(1 \rightarrow 2)-[4-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 3)] β -D-fucopyranoside $C_{48}H_{75}O_{24}S^-$ (1068.18). Amorphous powder, $[\alpha]_D = +48.5^\circ$ ($c = 0.1$, MeOH). Source: JIAN YING CHAI HU *Bupleurum rigidum* (aerial parts). Ref: 3985.

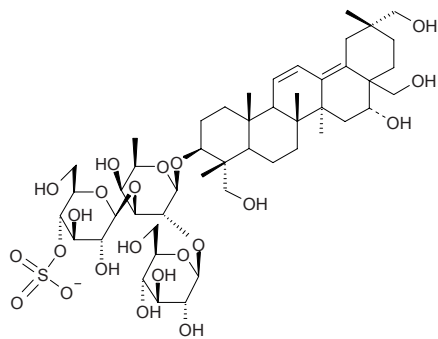


19248 Sandrosaponin V

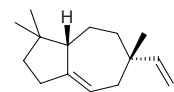
13,28-Epoxy-3 β ,16 β ,23,30-tetrahydroxyolean-11-en-3 β -yl β -D-glucopyranosyl-(1 \rightarrow 2)-[4-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-fucopyranoside
 $C_{48}H_{77}O_{22}S^-$ (1038.20). Amorphous powder, $[\alpha]_D^{20} = +30.6^\circ$ ($c = 0.07$, MeOH).
 Source: JIAN YING CHAI HU *Bupleurum rigidum* (aerial parts). Ref: 3985.

**19249 Sandrosaponin VI**

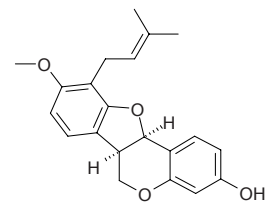
3 β ,16 α ,23,28,29-Pentahydroxy-11,13(18)-oleanedien-3 β -yl β -D-glucopyranosyl-(1 \rightarrow 2)-[4-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-fucopyranoside
 $C_{48}H_{77}O_{22}S^-$ (1038.20). Amorphous powder, $[\alpha]_D^{20} = +17.5^\circ$ ($c = 0.14$, MeOH).
 Source: JIAN YING CHAI HU *Bupleurum rigidum* (aerial parts). Ref: 3985.

**19250 (+)-Sandvicene**

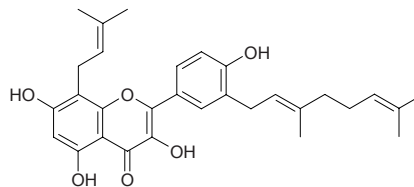
$C_{15}H_{24}$ (204.36). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 735.

**19251 Sandwicensin**

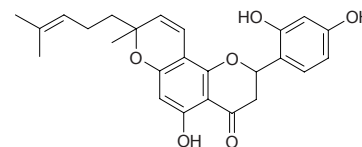
[74515-46-1] $C_{21}H_{22}O_4$ (338.41). Source: HUI CI TONG *Erythrina glauca*.
 Ref: 2268.

**19252 Sanggenol B**

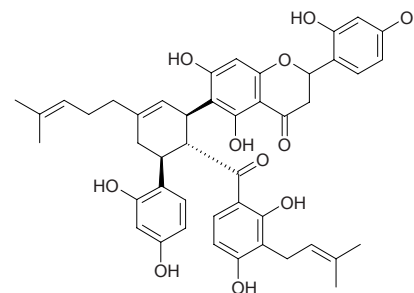
$C_{30}H_{34}O_6$ (490.60). Source: HUA SANG *Morus cathayana*. Ref: 2513.

**19253 Sanggenol L**

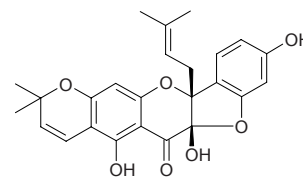
$C_{25}H_{26}O_6$ (422.48). A diastereomeric mixture: pale yellow amorphous solid,
 $[\alpha]_D^{22} = -18^\circ$ ($c = 0.1$, MeOH). Source: MENG SANG *Morus mongolica*
 (root cortex: yield = 0.00018%semi-dw). Ref: 3034.

**19254 Sanggenol M**

$C_{45}H_{46}O_{11}$ (762.86). A diastereomeric mixture: pale yellow amorphous solid,
 $[\alpha]_D^{22} = -126^\circ$ ($c = 0.1$, MeCN). Pharm: Cytotoxic (racemic mixture, HSC-2,
 $CC_{50} = 13\mu\text{mol/L}$, $10\mu\text{g/mL}$; HSG, $CC_{50} = 13\mu\text{mol/L}$, $10\mu\text{g/mL}$; HGF, $CC_{50} =$
 $32\mu\text{mol/L}$, $24\mu\text{g/mL}$)^[3034]. Source: MENG SANG *Morus mongolica* (root
 cortex: yield = 0.0014%semi-dw). Ref: 3034.

**19255 Sanggenon A**

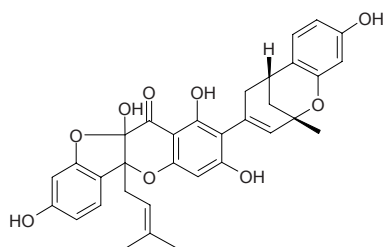
$C_{25}H_{24}O_7$ (436.47). Pharm: Protein kinase C inhibitor (inhibits protein kinase
 C of teleocidin, a promotor of cancer, with dose-dependent relationship)^[2513];
 ornithine decarboxylase inhibitor (inhibits reducing activity of ornithine
 decarboxylase, ODC, a promotor of cancer)^[2513]; cytotoxic (HSC-2, $CC_{50} =$
 $53\mu\text{mol/L}$, $23\mu\text{g/mL}$; HSG, $CC_{50} = 46\mu\text{mol/L}$, $20\mu\text{g/mL}$; HGF, $CC_{50} =$
 $110\mu\text{mol/L}$, $49\mu\text{g/mL}$)^[3034]. Source: HUA SANG *Morus cathayana* (root
 cortex.), SANG BAI PI *Morus alba*. Ref: 660, 1521, 2513, 3034.



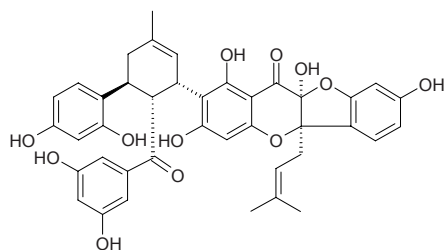
19256 Sanggenon B

$C_{33}H_{30}O_9$ (570.60). **Pharm:** Cytotoxic (HSC-2, $CC_{50} = 39\mu\text{mol/L}$, $22\mu\text{g/mL}$; HSG, $CC_{50} = 47\mu\text{mol/L}$, $27\mu\text{g/mL}$; HGF, $CC_{50} = 98\mu\text{mol/L}$, $56\mu\text{g/mL}$)^[3034].

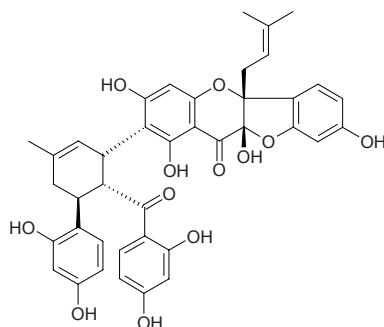
Source: HUA SANG *Morus cathayana* (root cortex), SANG BAI PI *Morus alba*. **Ref:** 660, 1521, 3034.

**19257 Sanggenon C**

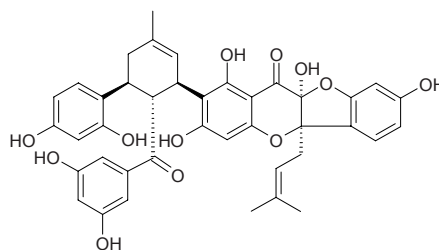
$C_{40}H_{36}O_{12}$ (708.73). **Pharm:** Antimicrobial (*Staphylococcus aureus*, *Bacillus subtilis*, *Trichophyton mentagrophytes*, *Pyricularia oryzae*); antihypertensive; cytotoxic (HSC-2, $CC_{50} = 18\mu\text{mol/L}$, $13\mu\text{g/mL}$; HSG, $CC_{50} = 23\mu\text{mol/L}$, $16\mu\text{g/mL}$; HGF, $CC_{50} = 42\mu\text{mol/L}$, $30\mu\text{g/mL}$)^[3034]. **Source:** HUA SANG *Morus cathayana* (root cortex), SANG BAI PI *Morus alba* (root cortex: content scope of 10 origins = 0.020%–0.55%, mean content = 0.130%)^[5508]. **Ref:** 658, 3034, 5508.

**19258 Sanggenon C₁**

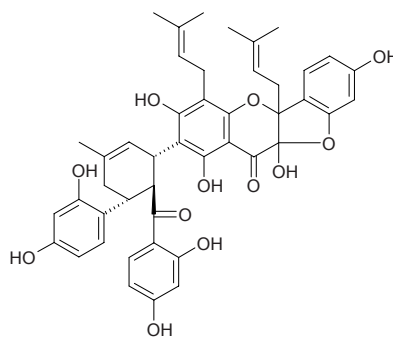
$C_{40}H_{36}O_{12}$ (708.73). **Source:** HUA SANG *Morus cathayana* (root cortex). **Ref:** 5169.

**19259 Sanggenon D**

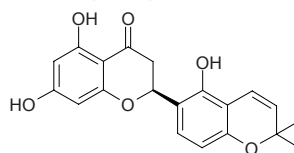
[81422-93-7] $C_{40}H_{36}O_{12}$ (708.73). Amorphous powder, mp 175–185°C, $[\alpha]_D^{26} = -145^\circ$ ($c = 0.17$, methanol). **Pharm:** Antimicrobial (*Staphylococcus aureus*, *Bacillus subtilis*, *Trichophyton mentagrophytes* and *Pyricularia oryzae*); inhibits teleocidin; protein kinase C inhibitor; antihypertensive (rat, iv, 0.5–2.0mg/kg); inhibits metabolism of arachidonic acid (in rat platelet aggregation, inhibits formation of HHT $IC_{50} = 43.3\mu\text{mol/L}$ and thromboxane B_2 , $IC_{50} = 48.3\mu\text{mol/L}$); cAMP phosphodiesterase inhibitor ($IC_{50} = 26\mu\text{mol/L}$); anti-inflammatory (NO production inhibitor)^[4415]; cytotoxic (HSC-2, $CC_{50} = 44\mu\text{mol/L}$, $31\mu\text{g/mL}$; HSG, $CC_{50} = 64\mu\text{mol/L}$, $45\mu\text{g/mL}$; HGF, $CC_{50} = 140\mu\text{mol/L}$, $100\mu\text{g/mL}$)^[3034]. **Source:** HUA SANG *Morus cathayana* (root cortex), SANG BAI PI *Morus alba*. **Ref:** 658, 900, 3034, 4415.

**19260 Sanggenon E**

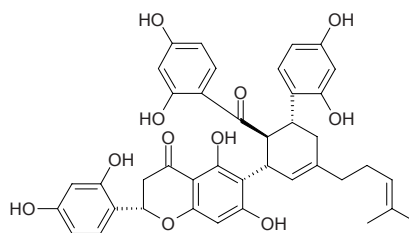
$C_{45}H_{44}O_{12}$ (776.85). **Source:** SANG BAI PI *Morus alba*. **Ref:** 660.

**19261 Sanggenon F**

$C_{20}H_{18}O_6$ (354.36). **Source:** SANG BAI PI *Morus alba*. **Ref:** 660.

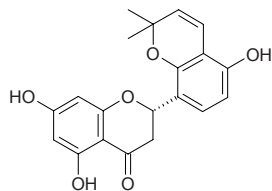
**19262 Sanggenon G**

Sanggenone G [85698-31-3] $C_{40}H_{38}O_{11}$ (694.74). Amorphous powder, $[\alpha]_D^{16} = -277^\circ$ ($c = 0.93$, MeOH). **Source:** MENG SANG *Morus mongolica* (root cortex: yield = 0.0018% semi-dw), SANG BAI PI *Morus alba*. **Ref:** 660, 2513, 3034.

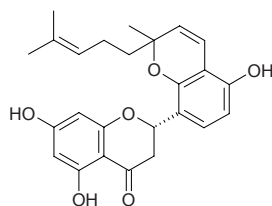


19263 Sanggenon H

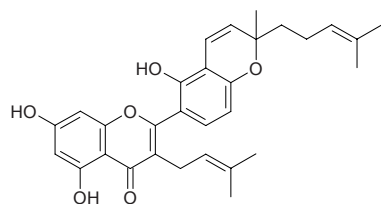
$C_{20}H_{18}O_6$ (354.36). Source: SANG BAI PI *Morus alba*. Ref: 660.

**19264 Sanggenon I**

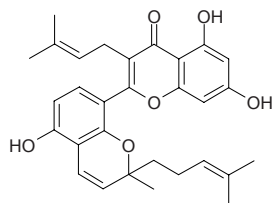
$C_{25}H_{26}O_6$ (422.48). Source: SANG BAI PI *Morus alba*. Ref: 660.

**19265 Sanggenon J**

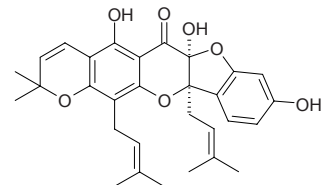
$C_{30}H_{32}O_6$ (488.59). Source: SANG BAI PI *Morus alba*, *Morus* sp. Ref: 660, 2513.

**19266 Sanggenon K**

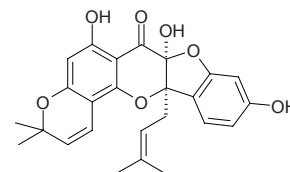
$C_{30}H_{32}O_6$ (488.59). Source: SANG BAI PI *Morus alba*. Ref: 660.

**19267 Sanggenon L**

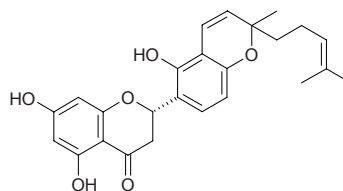
$C_{30}H_{32}O_7$ (504.59). Source: SANG BAI PI *Morus alba*. Ref: 660.

**19268 Sanggenon M**

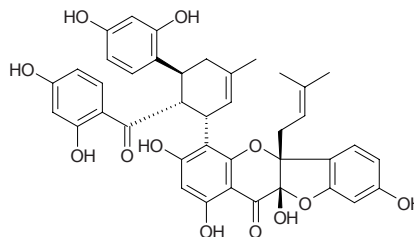
$C_{25}H_{24}O_7$ (436.47). Pharm: Cytotoxic (HSC-2, CC_{50} = 48 μ mol/L, 21 μ g/mL; HSG, CC_{50} = 53 μ mol/L, 23 μ g/mL; HGF, CC_{50} = 110 μ mol/L, 49 μ g/mL)^[3034]. Source: HUA SANG *Morus cathayana* (root cortex), SANG BAI PI *Morus alba*. Ref: 660, 1521, 3034.

**19269 Sanggenon N**

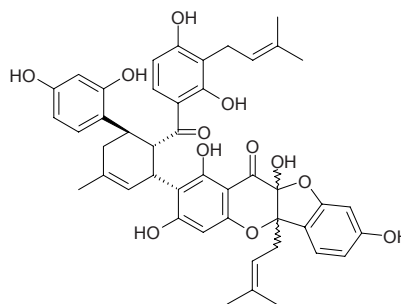
$C_{25}H_{26}O_6$ (422.48). Source: SANG BAI PI *Morus alba*. Ref: 660.

**19270 Sanggenon O**

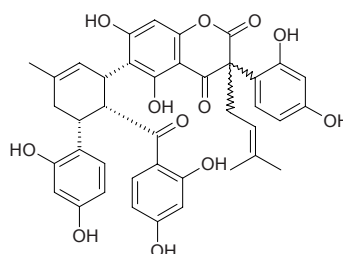
$C_{40}H_{36}O_{12}$ (708.73). Source: HUA SANG *Morus cathayana* (root cortex), SANG BAI PI *Morus alba*. Ref: 660, 5169.

**19271 Sanggenon P**

$C_{45}H_{44}O_{12}$ (776.85). Source: SANG BAI PI *Morus alba*. Ref: 660.

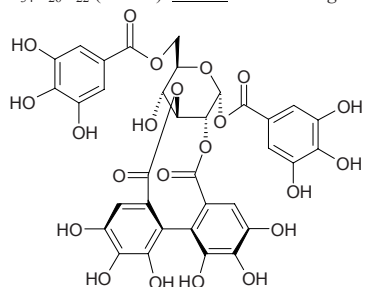
**19272 Sanggenon Q**

$C_{40}H_{36}O_{12}$ (708.73). Source: MENG SANG *Morus mongolica*. Ref: 2513.

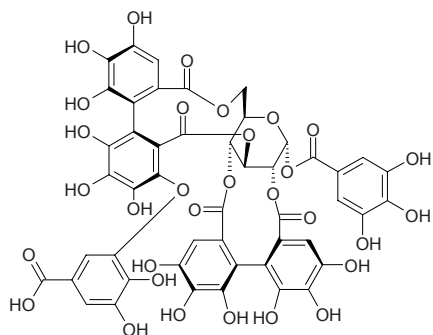


19273 Sanguiin H₁

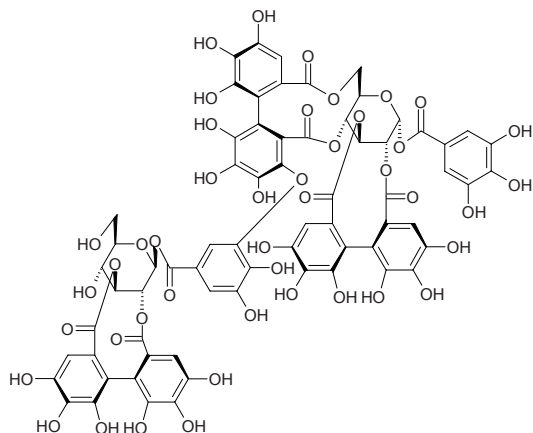
$C_{34}H_{26}O_{22}$ (786.57). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19274 Sanguiin H₂**

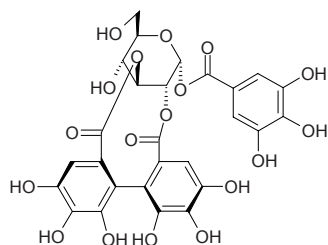
$C_{48}H_{32}O_{31}$ (1104.77). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19275 Sanguiin H₃**

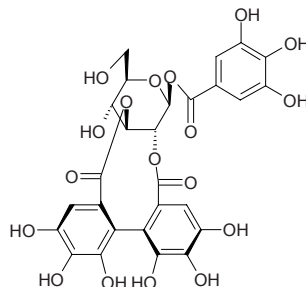
$C_{68}H_{48}O_{44}$ (1569.11). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19276 Sanguiin H₄**

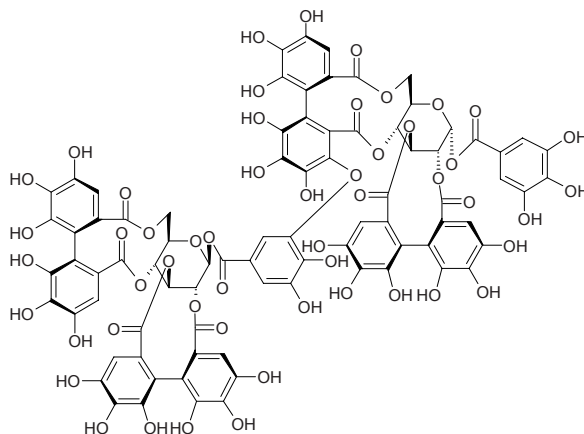
$C_{27}H_{22}O_{18}$ (634.47). Source: DI YU *Sanguisorba officinalis*, JIN YING ZI *Rosa laevigata*. Ref: 660.

**19277 Sanguiin H₅**

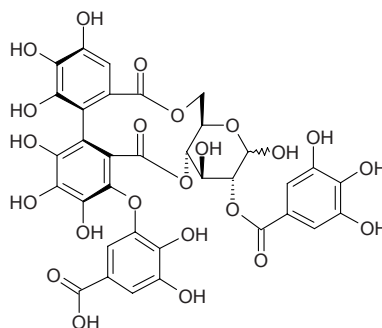
Isostrictinin $C_{27}H_{22}O_{18}$ (634.47). Pharm: Antioxidant (SOD-like activity, $EC_{50} = 47.3\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6\mu\text{mol/L}$)^[3408]; antioxidant (DPPH free radical scavenger, $EC_{50} = 1.73\mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88\mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25\mu\text{mol/L}$)^[3408]. Source: BAN LI *Castanea mollissima* (leaf), DI YU *Sanguisorba officinalis*, HU TAO REN *Juglans regia*, MEI GUI HUA *Rosa rugosa*. Ref: 660, 3408.

**19278 Sanguiin H₆**

$C_{82}H_{54}O_{52}$ (1871.31). Pharm: Cytotoxic (HeLa, $ED_{50} = 12\text{mmol/L}$); DNA topoisomerase inhibitor. Source: DI YU *Sanguisorba officinalis*. Ref: 660.

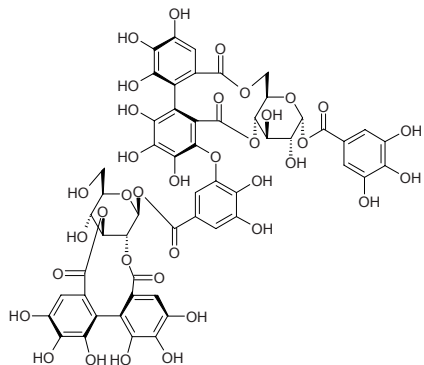
**19279 Sanguiin H₇**

[[98917-86-3]] $C_{34}H_{26}O_{23}$ (802.57). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

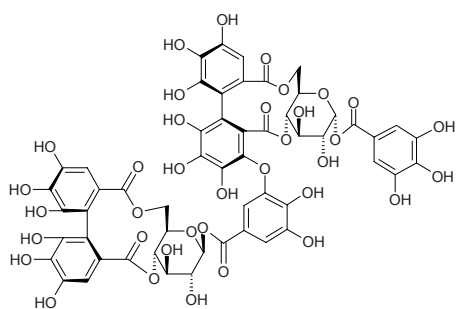


19280 Sanguiin H₈

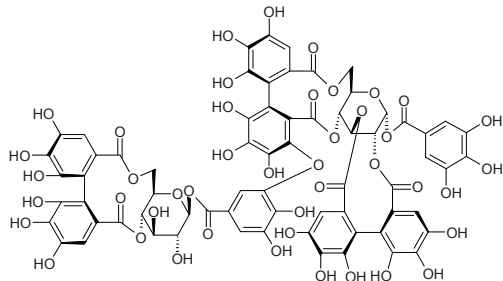
$C_{54}H_{42}O_{36}$ (1266.92). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19281 Sanguiin H₉**

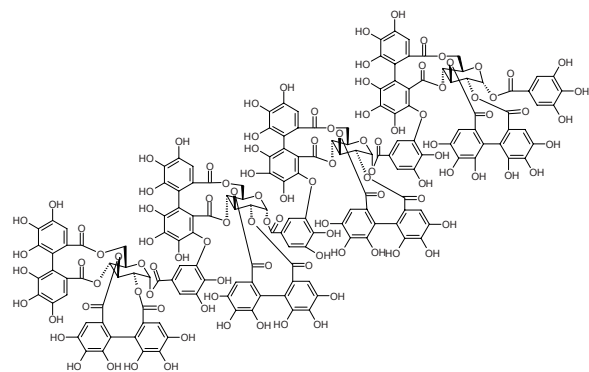
$C_{54}H_{42}O_{36}$ (1266.92). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19282 Sanguiin H₁₀**

$C_{68}H_{48}O_{44}$ (1569.11). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

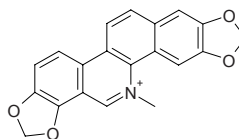
**19283 Sanguiin H₁₁**

$C_{164}H_{106}O_{104}$ (3740.61). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

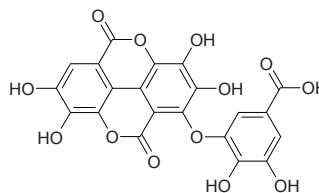
**19284 Sanguinarine**

ψ -Cheierythrine [2447-54-3.] $C_{20}H_{14}NO_4$ (332.34). mp 242–243°C (dec).

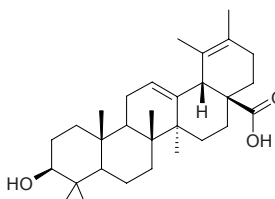
Pharm: PKA inhibitor (catalytic subunit of rat liver protein kinase A, $IC_{50} = 6\mu\text{mol/L}$)^[5369]; PKC inhibitor ($IC_{50} > 200\mu\text{mol/L}$)^[5369]; Cytotoxic (hmn keratinocytes, inhibits growth of cells, $IC_{50} = 0.2\mu\text{mol/L}$)^[5369]; Cytotoxic (decreases concentration-dependently viability of hmn epidermoid carcinoma A431 cells at lower concentrations than of normal hmn epidermal keratinocytes, results in an induction of apoptosis but did not lead to formation of a DNA in normal keratinocytes)^[5369]; Cytotoxic (interacts with calf thymus DNA and alters its secondary structure)^[5369]; anti-HIV inactive (H9 lymphocytes, control AZT, $IC_{50} = 500\mu\text{g/mL}$, $EC_{50} = 0.0317\mu\text{g/mL}$, $TI = 15800$)^[5364]. Source: BAI QU CAI *Chelidonium majus*, BO LUO HUI *Macleaya cordata* (whole herb: content = 5.69%^[5508]), HE BAO MU DAN GEN *Dicentra spectabilis*, HE QING HUA *Hylomecon japonica*, JI YING SU *Argemone mexicana*, JU HUA HUANG LIAN *Corydalis pallida*, LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], MEI ZHOU XUE GEN CAO *Sanguinaria canadensis*, XI GUO JIAO HUI XIANG *Hypecoum leptocarpum*, YA PIAN *Papaver somniferum*, YAO YONG QIU GUO ZI JIN *Fumaria officinalis*, YI YANG HE BAO MU DAN *Dicentra peregrina*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*, ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 4, 6, 658, 5364, 5369, 5508.

**19285 Sanguisobiac acid dilactone**

$C_{21}H_{10}O_{13}$ (470.31). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

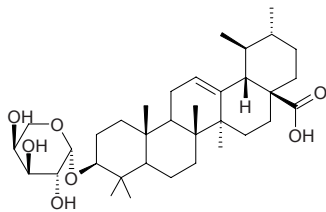
**19286 Sanguisorbigenin**

$C_{30}H_{46}O_3$ (454.70). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

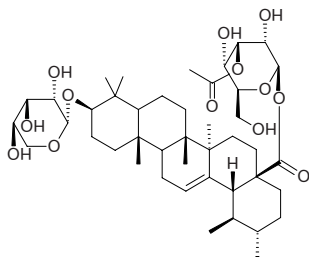


19287 Sanguisorbin B

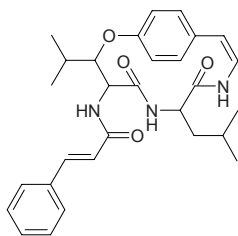
$C_{35}H_{56}O_7$ (588.83). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19288 Sanguisorbin E**

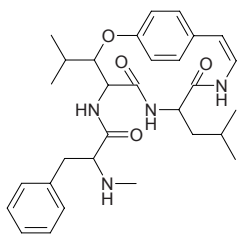
$C_{43}H_{68}O_{13}$ (793.01). Source: DI YU *Sanguisorba officinalis*. Ref: 660.

**19289 Sanjoinine**

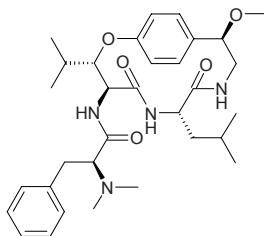
$C_{29}H_{35}N_3O_4$ (489.62). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19290 Sanjoinine B**

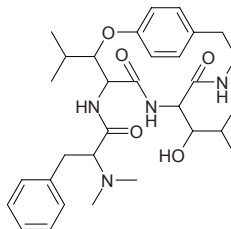
$C_{30}H_{40}N_4O_4$ (520.68). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19291 Sanjoinine D**

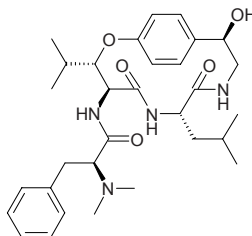
$C_{32}H_{46}N_4O_5$ (566.75). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19292 Sanjoinine F**

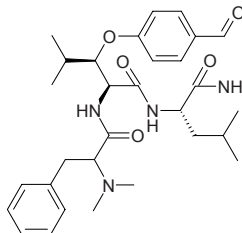
$C_{31}H_{44}N_4O_5$ (552.72). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19293 Sanjoinine G₁**

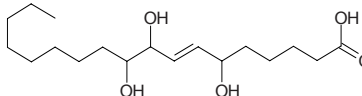
$C_{31}H_{44}N_4O_5$ (552.72). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19294 Sanjoinine G₂**

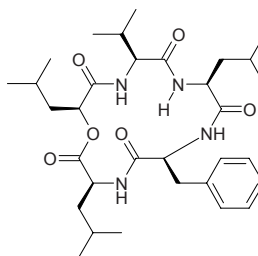
$C_{30}H_{42}N_4O_5$ (538.69). Source: SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**19295 Sanleng acid**

$C_{18}H_{34}O_5$ (330.47). White amorphous powder, mp 116~118°C, soluble in ethanol, ethyl acetate. Source: SAN LENG *Sparganium stoloniferum*. Ref: 480.

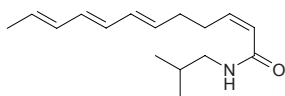
**19296 Sansalvamide**

$C_{32}H_{50}N_4O_6$ (586.78). Pharm: Cytotoxic (in vitro, NCI hm tumor cell line screen, mean GI₅₀ = 3.6 μmol/L). Source: *Fusarium* sp. Ref: 5087.

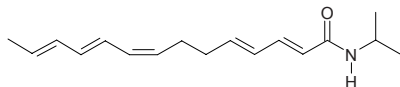


19297 Sanshool

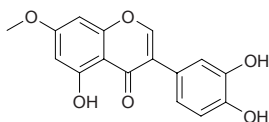
$C_{16}H_{25}NO$ (247.38). mp 69°C. Source: YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 6.

**19298 γ -Sanshool**

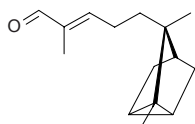
$C_{17}H_{25}NO$ (259.39). Pharm: Platelet aggregation inhibitor. Source: QUAN YUAN YE HUA JIAO *Zanthoxylum integrifolium*. Ref: 2176.

**19299 Santal**

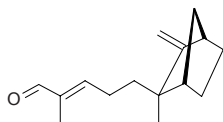
$C_{16}H_{12}O_6$ (300.27). Pharm: Antioxidant (DPPH scavenger, ScRt = 86.84%, control BHT, ScRt = 71.5%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC = 128 μ g/mL, Vancomycin, MIC = 0.5 μ g/mL; MRSA SK1, MIC = 2 μ g/mL, Vancomycin, MIC = 1.0 μ g/mL); increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 4.0mg/kg, 21.7mmHg). Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 3810.

**19300 α -Santalal**

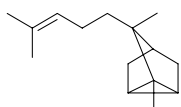
$C_{15}H_{22}O$ (218.34). Source: TAN XIANG *Santalum album*. Ref: 660.

**19301 β -Santalal**

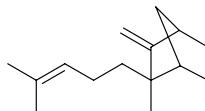
$C_{15}H_{22}O$ (218.34). Source: TAN XIANG *Santalum album*. Ref: 660.

**19302 α -Santalene**

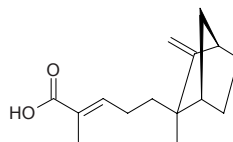
$C_{15}H_{24}$ (204.36). bp 252°C/753mmHg. Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex)^[3075], FENG DOU CAI *Petasites japonicus*, HUA DONG LAN CI TOU *Echinops grysii*, TAN XIANG *Santalum album*, ZHANG MU *Cinnamomum camphora*. Ref: 6, 660, 3075.

**19303 β -Santalene**

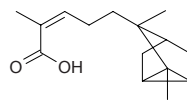
β -Santalal(3,15),10-diene $C_{15}H_{24}$ (204.36). bp 125~127°C/9mmHg, mp 263~264°C. Pharm: Smell of cedar. Source: HUA DONG LAN CI TOU *Echinops grysii*, WU WEI ZI *Schisandra chinensis*, TAN XIANG *Santalum album*, ZHANG MU *Cinnamomum camphora*. Ref: 2, 6, 658, 660.

**19304 β -Santallic acid**

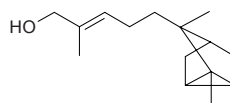
$C_{15}H_{22}O_2$ (234.34). Source: TAN XIANG *Santalum album*. Ref: 660.

**19305 Santallic acid**

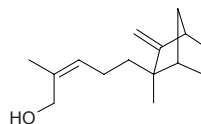
$C_{15}H_{22}O_2$ (234.34). mp (β) 202°C, (γ) 189°C, bp (α) 193°C/9mmHg. Source: TAN XIANG *Santalum album*. Ref: 6.

**19306 α -Santalol**

$C_{15}H_{24}O$ (220.36). bp 166~167°C/14mmHg. Pharm: Antibacterial. Source: HOU PO *Magnolia officinalis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], WU WEI ZI *Schisandra chinensis*, TAN XIANG *Santalum album* (1.08%~2.37%). Ref: 6, 658, 5501.

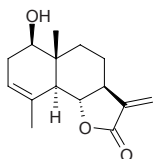
**19307 β -Santalol**

$C_{15}H_{24}O$ (220.36). bp 177~178°C/17mmHg. Pharm: Antibacterial. Source: TAN XIANG *Santalum album* (heartwood: content scope = 0.75%~1.40%^[5501]), SHENG JIANG *Zingiber officinale*. Ref: 6, 658, 5501.



19308 Santamarin

Santamarine C₁₅H₂₀O₃ (248.33). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits TNF α production in LPS-activated RAW264.7 cells, IC₅₀ = 105 μ mol/L)^[4416]; antineoplastic; cytotoxic (*in vitro*, HepG₂, CD₅₀ = 7.5 μ g/mL; HeLa, CD₅₀ = 10 μ g/mL; OVCAR-3, CD₅₀ = 10 μ g/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μ g/mL; HeLa, CD₅₀ = 5.2 μ g/mL; OVCAR-3, CD₅₀ = 3 μ g/mL; without significant antibacterial effect)^[4720]. **Source:** MI HUA TUN CAO *Ambrosia confertiflora*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.00056%dw)^[4720], WU XIN SHI *Michelia compressa* var. *formosana*, *Artemisia* sp., *Tanacetum* sp., *Chrysanthemum* sp. **Ref:** 658, 4416, 4720.

**19309 Santene**

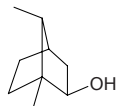
C₉H₁₄ (122.21). bp 140~141°C. **Source:** TAN XIANG *Santalum album*, YU XIANG CAO *Mentha rotundifolia*. **Ref:** 6.

**19310 Santenone**

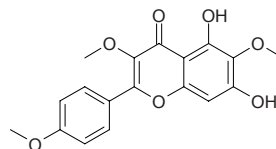
C₉H₁₄O (138.21). mp (-) 58~61°C, (\pm) 55~57°C, bp (-) 193~195°C, (\pm) 197°C. **Source:** TAN XIANG *Santalum album*. **Ref:** 6.

**19311 Santenone alcohol**

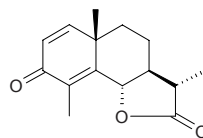
C₉H₁₆O (140.23). mp 86°C; 58~62°C. **Source:** TAN XIANG *Santalum album*. **Ref:** 6.

**19312 Santin**

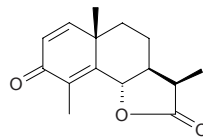
Betuletol 3-methyl ether; Centauridin; Tanetin; 6-Hydroxykaempferol 3,6,4'-trimethylether; 5,7-Dihydroxy-3,6,4'-trimethoxyflavone [27782-63-4] C₁₈H₁₆O₇ (344.32). mp 159~161°C. **Pharm:** Cyclo-oxygenase inhibitor (relative inhibition of thromboxane B₂, IC₅₀ = 27 μ mol/L)^[2292]; 5-lipoxygenase inhibitor (relative inhibition of leukotriene B₄, IC₅₀ = 58 μ mol/L)^[2292]; NO production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 7.8 μ mol/L or 6.2 μ mol/L)^[4918]; PGE₂ production inhibitor (LPS-induced, concentration-dependent manner, IC₅₀ = 3.9 μ mol/L or 4.3 μ mol/L)^[4918]; antitubercular (*Mycobacterium tuberculosis*, MIC = 46.2 μ g/mL, cytotoxic, Vero cells, IC₅₀ = 28.7 μ g/mL, SI (IC₅₀/MIC) = 0.62, positive control Rifampin, MIC = 0.03 μ g/mL, IC₅₀ = 98.3 μ g/mL, SI = 3300)^[4986]. **Source:** CHI YANG *Alnus japonica*, CHU AI JU *Tanacetum parthenium*^[2292], JU HAO *Tanacetum vulgare*^[2292], SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root)^[4986], XIAO YE JU HAO *Tanacetum microphyllum* (aerial parts), *Alnus* spp., *Betula* spp., *Achillea* spp., *Dodonaea* spp. **Ref:** 660, 1512, 2292, 4918, 4986.

**19313 α -Santonin**

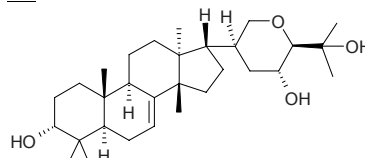
C₁₅H₁₈O₃ (246.31). mp (-) 174~176°C. **Pharm:** Anthelmintic; antineoplastic; cytotoxic; insect antifeedant; plant growth regulator. **Source:** HUI HAO *Seriphidium cinum* [Syn. *Artemisia cina*], BIN HAO *Artemisia maritima*, *Artemisia* sp. **Ref:** 6, 658.

**19314 β -Santonin**

C₁₅H₁₈O₃ (246.31). mp (-) 216~218°C. **Pharm:** Anthelmintic but is highly toxic and is no longer used clinically. **Source:** DONG BEI HUI HAO *Seriphidium finitum* [Syn. *Artemisia finita*], HUANG HUA HAO *Artemisia annua*, MI HAO *Artemisia compacta*, XUE LING HAO *Artemisia schrenkiana*, YA LIE XING HAO *Artemisia sublessingiana*. **Ref:** 6, 658.

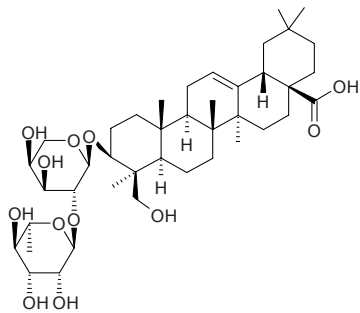
**19315 Sapelin A**

C₃₀H₅₀O₄ (474.73). **Pharm:** Cytotoxic. **Source:** *Entandrophragma cylindricum*. **Ref:** 658.

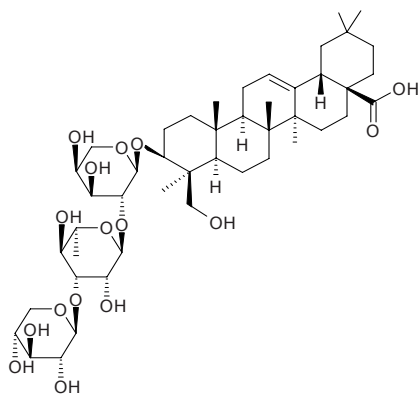


19316 Sapindoside A

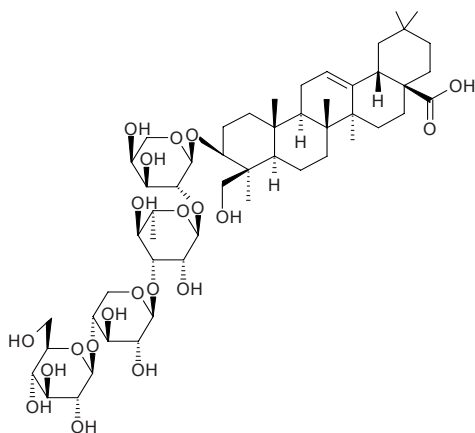
Akebiasaponin P_D C₄₁H₆₆O₁₂ (750.98). mp 214~216°C. Pharm: Antineoplastic; antifungal; hemolytic; antihypercholesterolemic; antihypertensive (rbt, sc, 0.04mg/kg, blood pressure being reduced by 25%); molluscicide (*Biomphalaria glabrata*, EC = 8mg/L); LD₅₀ (mus, iv or ip) = 270mg/kg, (mus, sc) = 659mg/kg, (mus, orl) = 1625mg/kg. Source: CHAO XIAN BAI TOU WENG *Pulsatilla cernua*, LING XING CHANG CHUN TENG *Hedera rhombea*, MU TONG *Akebia quinata*, WU HUAN ZI PI *Sapindus mukorossi*, WU HUAN ZI YE *Sapindus mukorossi*, YANG CHANG CHUN TENG *Hedera helix*. Ref: 6, 658.

**19317 Sapindoside B**

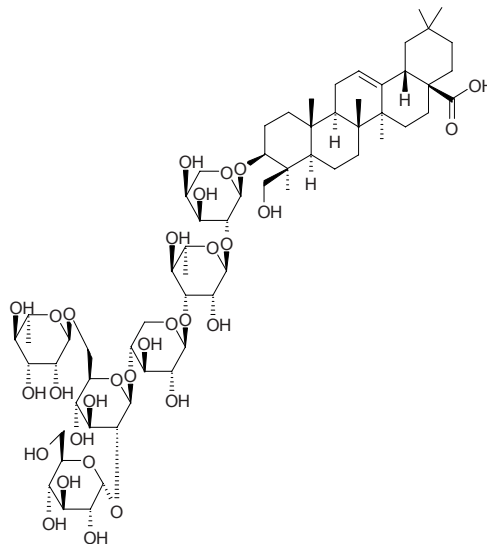
Akebiasaponin P_G C₄₆H₇₄O₁₆ (883.09). mp 276~278°C. Source: HUANG HE MAO REN DONG *Lonicera fulvotomentosa*, WU HUAN ZI YE *Sapindus mukorossi*, WU HUAN ZI PI *Sapindus mukorossi*. Ref: 6, 660.

**19318 Sapindoside C**

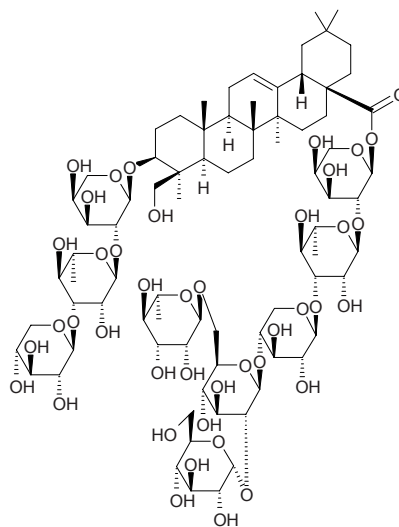
Prosapogenin CP_{8a} C₅₂H₈₄O₂₁ (1045.24). mp 235°C. Source: WU HUAN ZI PI *Sapindus mukorossi*. Ref: 6.

**19319 Sapindoside D**

C₆₄H₁₀₄O₃₀ (1353.52). Source: WU HUAN ZI PI *Sapindus mukorossi*. Ref: 6.

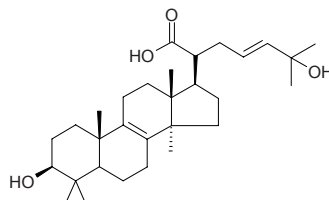
**19320 Sapindoside E**

C₈₀H₁₃₀O₄₂ (1763.90). Source: WU HUAN ZI PI *Sapindus mukorossi*. Ref: 6.

**19321 Saponaceic acid I**

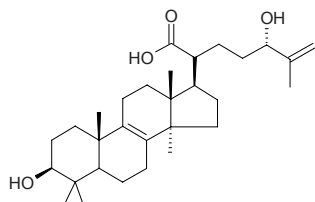
3β,25-Dihydroxylanosta-8,23E dien-21-oic acid C₃₀H₄₈O₄ (472.71).

Amorphous powder, [α]_D²⁵ = +10.0° (c = 0.2, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

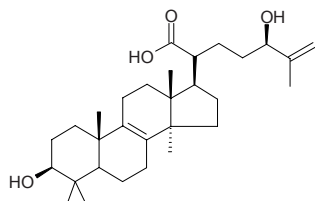


19322 Saponaceoic acid II

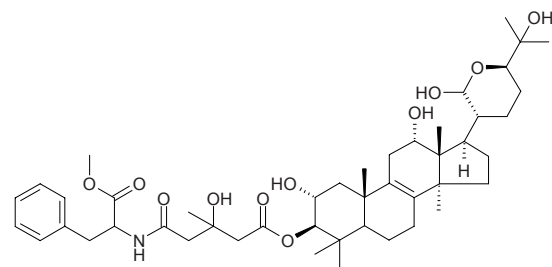
3,24-Dihydroxyylanosta-8,25-dien-21-oic acid C₃₀H₄₈O₄ (472.71). Amorphous powder, $[\alpha]_D^{25} = +3.8^\circ$ ($c = 0.2$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

**19323 Saponaceoic acid III**

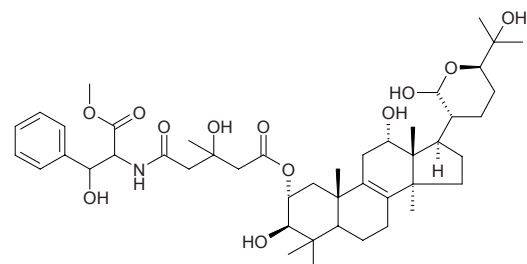
3 β ,24R-Dihydroxyylanosta-8,25-dien-21-oic acid C₃₀H₄₈O₄ (472.71). Amorphous powder, $[\alpha]_D^{25} = -5.0^\circ$ ($c = 0.2$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

**19324 Saponaceol A**

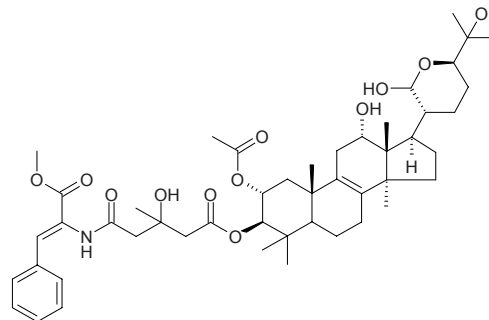
C₄₆H₆₉NO₁₁ (812.06). Amorphous powder, $[\alpha]_D^{25} = -10.4^\circ$ ($c = 0.6$, MeOH). Pharm: Cytotoxic (HL-60 hmn leukemia cell, IC₅₀ = 8.9 μ mol/L). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4059.

**19325 Saponaceol B**

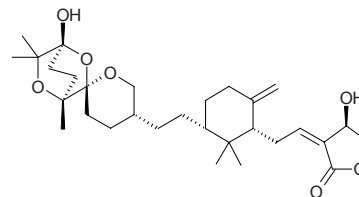
C₄₆H₆₉NO₁₂ (828.06). Amorphous powder, $[\alpha]_D^{25} = -4.45^\circ$ ($c = 0.4$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4059.

**19326 Saponaceol C**

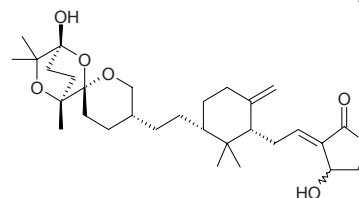
C₄₈H₆₉NO₁₂ (852.08). Amorphous powder, $[\alpha]_D^{25} = -20.6^\circ$ ($c = 0.5$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4059.

**19327 Saponaceolide A**

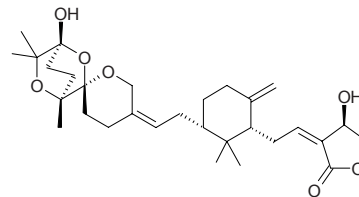
C₃₀H₄₆O₇ (518.70). Colorless needles, mp 147–150°C, $[\alpha]_D^{25} = +73.4^\circ$ ($c = 0.9$, CHCl₃). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

**19328 Saponaceolide E**

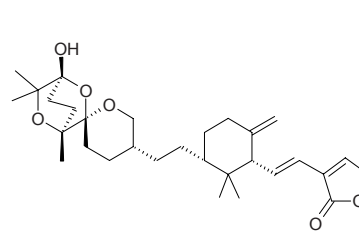
C₃₀H₄₆O₇ (518.70). Amorphous powder, $[\alpha]_D^{25} = +15.4^\circ$ ($c = 0.8$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

**19329 Saponaceolide F**

C₃₀H₄₄O₇ (516.68). Amorphous powder, $[\alpha]_D^{25} = +26.8^\circ$ ($c = 0.3$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

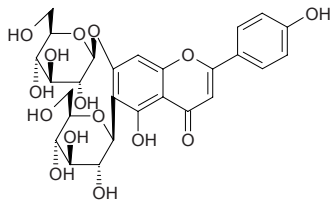
**19330 Saponaceolide G**

C₃₀H₄₄O₆ (500.68). Amorphous powder, $[\alpha]_D^{25} = +27.7^\circ$ ($c = 0.3$, MeOH). Source: ZAO WEI KOU MO *Tricholoma saponaceum*. Ref: 4252.

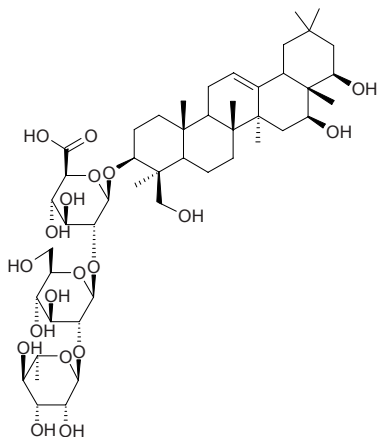


19331 Saponarin

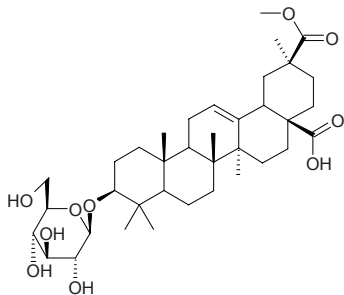
Isovitexin 7-*O*- β -D-glucopyranoside [20310-89-8] C₂₇H₃₀O₁₅ (594.53). mp 231~232°C (dec). **Pharm:** Antihepatotoxin. **Source:** MU JIN HUA *Hibiscus syriacus*, SHUI MU CAO *Mnium cuspidatum*, FEI ZAO CAO *Saponaria officinalis* (in 1944, the compound was isolated from the plant)^[5505]. **Ref:** 6, 1563, 5505.

**19332 Spartium junceum saponin**

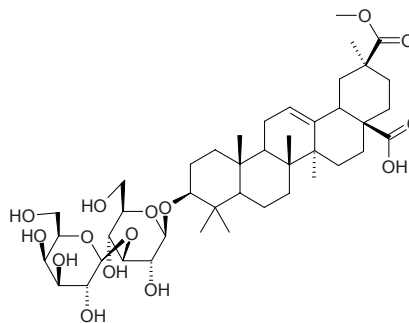
3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-3 β ,16 β ,22 β ,24-tetrahydroxy-olean-12-ene C₄₈H₇₈O₁₉ (959.15). White powder. **Pharm:** Anti-ulcerogenic activity. **Source:** YING ZHAO DOU *Spartium junceum*. **Ref:** 2324.

**19333 Saponin 1**

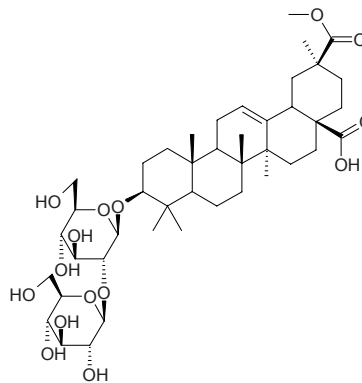
3-*O*- β -D-Glucopyranosylserjanic acid C₃₇H₅₈O₁₀ (662.87). White amorphous powder, $[\alpha]_D^{25} = +62^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ = 3.1 μ g/mL, control 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ = 700 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE = 1.9 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

**19334 Saponin 2**

3-*O*-(β -D-Galactopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl)serjanic acid C₄₃H₆₈O₁₅ (825.01). White amorphous powder, $[\alpha]_D^{25} = +60^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ = 3.1 μ g/mL, control 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ = 500 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE = 3.8 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

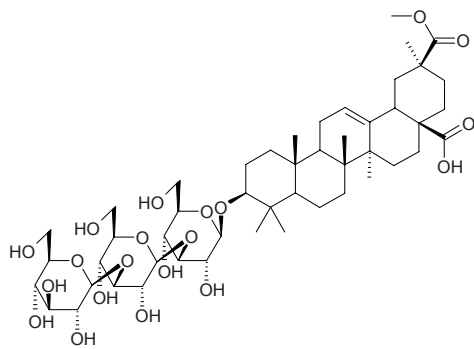
**19335 Saponin 3**

3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl)serjanic acid C₄₃H₆₈O₁₅ (825.01). White amorphous powder, $[\alpha]_D^{25} = +49^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ = 10.0 μ g/mL, control 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ = 250 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE = 7.5 μ g/mL, 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

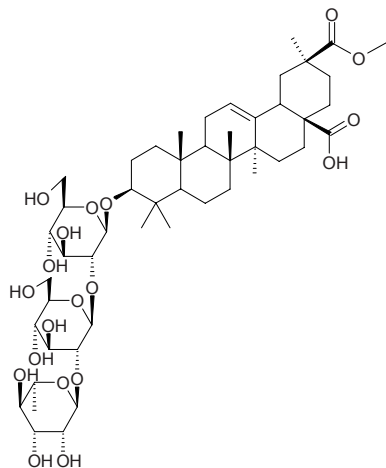


19336 Saponin 4

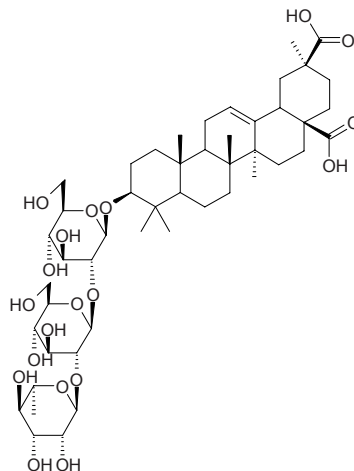
3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl)serjanic acid C₄₉H₇₈O₂₀ (987.16). White amorphous powder, $[\alpha]_D^{23} = +47^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ = 12.5 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ = 1333 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE = 7.5 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

**19337 Saponin 5**

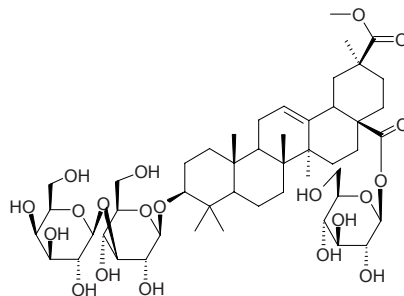
3-*O*-(α -*L*-Rhamnopyranosyl-(\rightarrow)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl)serjanic acid C₄₉H₇₈O₁₉ (971.16). White amorphous powder, $[\alpha]_D^{23} = +21^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ = 50.0 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ > 2000 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE > 60 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

**19338 Saponin 6**

3-*O*-(α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl)serpergulenigenic acid C₄₈H₇₆O₁₉ (957.13). White amorphous powder, $[\alpha]_D^{23} = +22^\circ$ ($c = 0.1$, MeOH). **Pharm:** Molluscicide (LC₁₀₀ > 50.0 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ > 2000 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE > 60 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

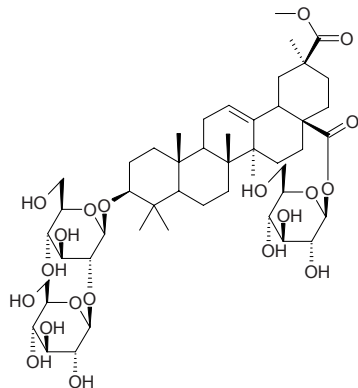
**19339 Saponin 7**

3-*O*-(β -*D*-Galactopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl)serjanic acid 28-*O*- β -*D*-glucopyranoside C₄₉H₇₈O₂₀ (987.16). **Pharm:** Molluscicide (LC₁₀₀ > 50.0 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ > 2000 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE > 60 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

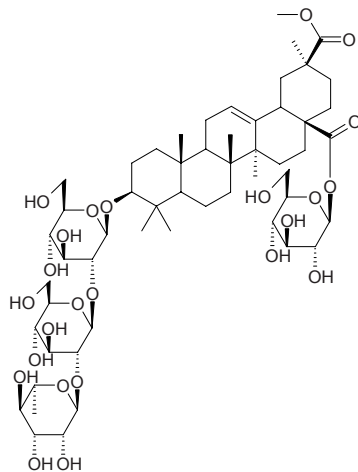


19340 Saponin 8

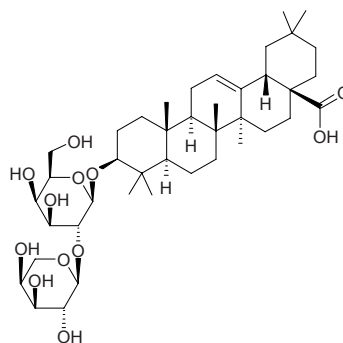
3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl)serjanic acid 28-*O*- β -*D*-glucopyranoside C₄₉H₇₈O₂₀ (987.16). **Pharm:** Molluscicide (LC₁₀₀ > 50.0 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ > 2000 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE > 60 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

**19341 Saponin 9**

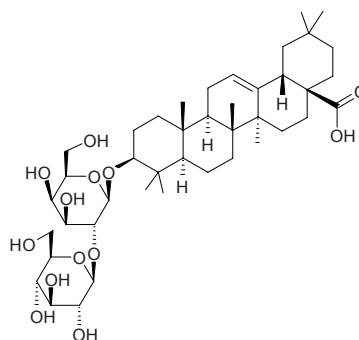
3-*O*-(α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl)serjanic acid 28-*O*- β -*D*-glucopyranoside C₅₅H₈₈O₂₄ (1133.30). **Pharm:** Molluscicide (LC₁₀₀ > 50.0 μ g/mL, control 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, LC₁₀₀ = 12.5 μ g/mL); spermicidal (IC₁₀₀ > 2000 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, IC₁₀₀ = 500 μ g/mL); haemolytic (MCTHBE > 60 μ g/mL, 3-*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)bayogenin, MCTHBE = 7.5 μ g/mL). **Source:** ER SHI RUI SHANG LU *Phytolacca icosandra* (berry). **Ref:** 5101.

**19342 Saponin E₃**

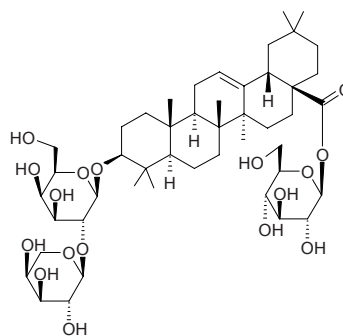
C₄₁H₆₆O₁₂ (750.98). **Source:** GUAN CONG DONG QING *Ilex dumosa*. **Ref:** 2160.

**19343 Saponin E₆**

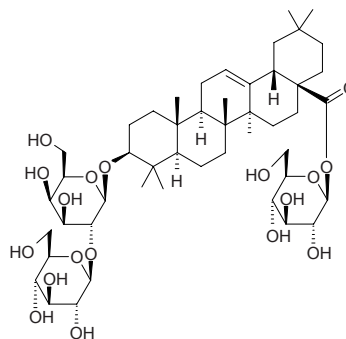
C₄₂H₆₈O₁₃ (781.00). **Source:** GUAN CONG DONG QING *Ilex dumosa*. **Ref:** 2160.

**19344 Saponin E₇**

C₄₇H₇₆O₁₇ (913.12). **Source:** GUAN CONG DONG QING *Ilex dumosa*. **Ref:** 2160.

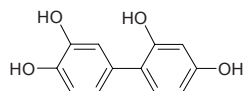
**19345 Saponin E₈**

C₄₈H₇₈O₁₈ (943.15). **Source:** GUAN CONG DONG QING *Ilex dumosa*. **Ref:** 2160.

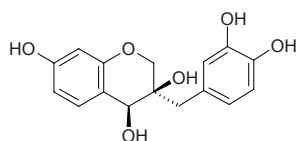


19346 Sappanin

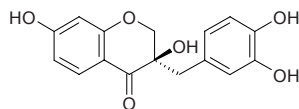
$C_{12}H_{10}O_4$ (218.21). mp 210–211°C. Source: SU MU *Caesalpinia sappan*. Ref: 6.

**19347 Sappanol**

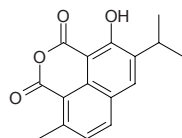
$C_{16}H_{16}O_6$ (304.30). Pharm: Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, $IC_{50} = 93.2 \mu\text{mol/L}$, $K_i = 61.6 \mu\text{mol/L}$, control Allopurinol, $IC_{50} = 2.5 \mu\text{mol/L}$, $K_i = 1.80 \mu\text{mol/L}$)^[4494]. Source: SU MU *Caesalpinia sappan*, SU MU *Caesalpinia sappan* (heartwood). Ref: 660, 4494.

**19348 Sappanone B**

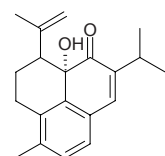
$C_{16}H_{14}O_6$ (302.29). Pharm: Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, $IC_{50} = 34.2 \mu\text{mol/L}$, $K_i = 20.7 \mu\text{mol/L}$, control Allopurinol, $IC_{50} = 2.5 \mu\text{mol/L}$, $K_i = 1.80 \mu\text{mol/L}$)^[4494]. Source: SU MU *Caesalpinia sappan*, SU MU *Caesalpinia sappan* (heartwood). Ref: 660, 4494.

**19349 Saprionide**

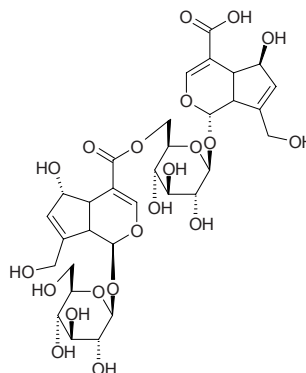
$C_{16}H_{14}O_4$ (270.29). Pale yellow powder. Pharm: Antibacterial inactive (*in vitro*, *Staphylococcus aureus*, *Micrococcus luteus*); topoisomerase I inhibitor inactive (*in vitro*); cytotoxic inactive (HL-60, SGC7901 and MKN-28). Source: HONG GEN CAO *Salvia prionitis* (root: yield = 0.00020%dw). Ref: 4635.

**19350 Sappirearine**

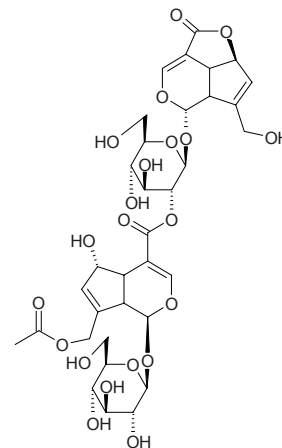
$C_{20}H_{24}O_2$ (296.41). Pale yellow prisms, mp 45°C. Pharm: Antibacterial inactive (*in vitro*, *Staphylococcus aureus*, *Micrococcus luteus*); topoisomerase I inhibitor inactive (*in vitro*); cytotoxic inactive (HL-60, SGC7901 and MKN-28). Source: HONG GEN CAO *Salvia prionitis* (root: yield = 0.0018%dw). Ref: 4635.

**19351 Saprosmoside G**

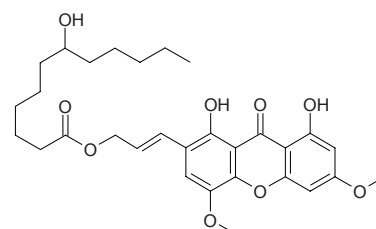
$C_{32}H_{42}O_{21}$ (762.68). White amorphous powder, $[\alpha]_D^{19} = -1.2^\circ$ ($c = 0.25$, MeOH). Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (bustem and leaf). Ref: 4219.

**19352 Saprosmoside H**

$C_{34}H_{42}O_{21}$ (786.70). Yellow amorphous powder, $[\alpha]_D^{19} = -46.4^\circ$ ($c = 0.11$, MeOH). Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (bustem and leaf). Ref: 4219.

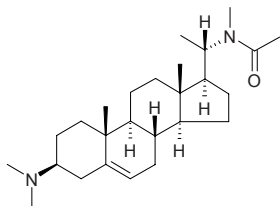
**19353 Sappxanthone**

$C_{30}H_{38}O_9$ (542.63). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

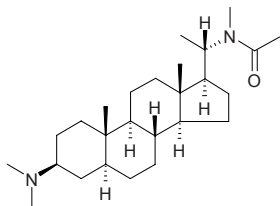


19354 Saracocine

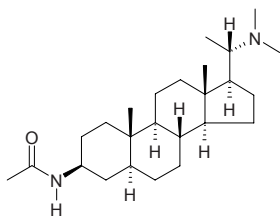
$C_{26}H_{44}N_2O$ (400.65). Yellowish gum, mp 226–228°C, $[\alpha]_D^{20} = +56^\circ$ ($c = 0.23$, MeOH). **Pharm:** Antispasmodic (spontaneous contraction of rabbit jejunum, $EC_{50} = 5.9\mu\text{g/mL}$, control Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$; K^+ 80mmol/L contracted rabbit jejunum, $EC_{50} = 24.5\mu\text{g/mL}$, Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$); AChE inhibitor ($EC_{50} = 8.0\mu\text{g/mL}$, Verapamil, $EC_{50} = 8.9\mu\text{g/mL}$). **Source:** YE SHAN HUA *Sarcococca saligna* (whole herb). **Ref:** 5054.

**19355 Saracodine**

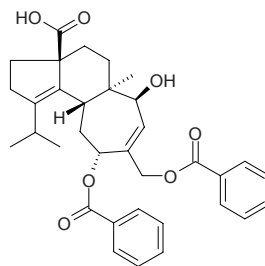
$C_{26}H_{46}N_2O$ (402.67). White amorphous material, mp 240–241°C, $[\alpha]_D^{20} = -14.4^\circ$ ($c = 0.02$, $CDCl_3$). **Pharm:** Antispasmodic (spontaneous contraction of rabbit jejunum, $EC_{50} = 7.0\mu\text{g/mL}$, control Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$; K^+ 80mmol/L contracted rabbit jejunum, $EC_{50} = 17.5\mu\text{g/mL}$, Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$) AChE inhibitor ($EC_{50} = 20.0\mu\text{g/mL}$, Verapamil, $EC_{50} = 8.9\mu\text{g/mL}$). **Source:** YE SHAN HUA *Sarcococca saligna* (whole herb). **Ref:** 5054.

**19356 Saracorine**

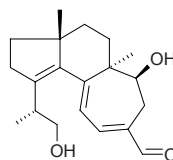
$C_{25}H_{44}N_2O$ (388.64). White amorphous material, $[\alpha]_D^{20} = +49^\circ$ ($c = 0.81$, $CDCl_3$). **Pharm:** Antispasmodic (spontaneous contraction of rabbit jejunum, $EC_{50} = 16.1\mu\text{g/mL}$, control Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$; K^+ 80mmol/L contracted rabbit jejunum, $EC_{50} = 62.3\mu\text{g/mL}$, Verapamil, $EC_{50} = 0.1\mu\text{g/mL}$); AChE inhibitor ($EC_{50} = 27.2\mu\text{g/mL}$, Verapamil, $EC_{50} = 8.9\mu\text{g/mL}$). **Source:** YE SHAN HUA *Sarcococca saligna* (whole herb). **Ref:** 5054.

**19357 Sarbronine B**

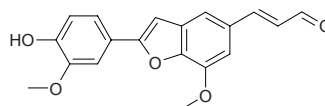
$C_{34}H_{38}O_7$ (558.68). Yellowish oil, $[\alpha]_D^{25} = +10.3^\circ$ ($c = 0.01$, MeOH). **Source:** MEI WEI CHI JUN *Hydnum repandum*. **Ref:** 4804.

**19358 Sarcodonin A**

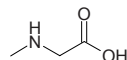
[125882-71-5] $C_{20}H_{28}O_3$ (316.44). Yellow-green syrup, $[\alpha]_D^{25} = +91.7^\circ$ ($c = 0.1$, $CHCl_3$). **Source:** MEI WEI CHI JUN *Hydnum repandum*. **Ref:** 4804.

**19359 Sarcomeginal**

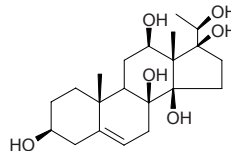
$C_{19}H_{16}O_5$ (324.34). Colorless amorphous solid. **Source:** *Sarcomelicope megistophylla*. **Ref:** 5408.

**19360 Sarcosine**

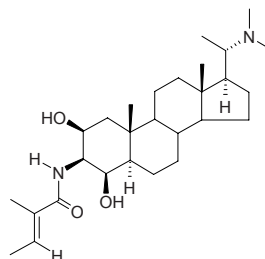
[107-97-1] $C_3H_7NO_2$ (89.09). mp 212–213°C (dec). **Source:** LI YU *Cyprinus carpio*, MO GU *Agaricus campestris*. **Ref:** 6.

**19361 Sarcostin**

$C_{21}H_{34}O_6$ (382.50). **Source:** BAI SHOU WU *Cynanchum bungei*, LUO MO *Metaplexis japonica*, XU CHANG QING *Cynanchum paniculatum*. **Ref:** 6.

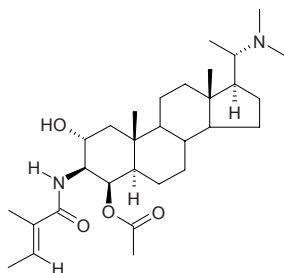
**19362 Sarcovagine A**

$C_{28}H_{48}N_2O_3$ (460.71). White acicular crystals, mp 277–278°C, $[\alpha]_D^{25} = +21.2^\circ$ ($c = 0.11$, chloroform). **Source:** HAI NAN YE SHAN HUA *Sarcococca vagans*. **Ref:** 399.

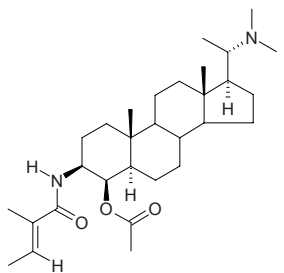


19363 Sarcovagine B

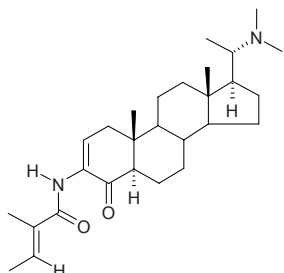
$C_{30}H_{50}N_2O_4$ (502.74). White crystals, mp 205~206°C, $[\alpha]_D^{25} = +19.6^\circ$ ($c = 0.06$, chloroform). Source: HAI NAN YE SHAN HUA *Sarcococca vagans*. Ref: 399.

**19364 Sarcovagine C**

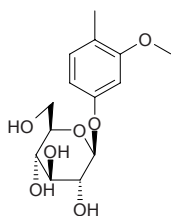
$C_{30}H_{50}N_2O_3$ (486.74). White acicular crystals, mp 192~194°C, $[\alpha]_D^{13} = -9.01^\circ$ ($c = 0.122$, chloroform). Source: HAI NAN YE SHAN HUA *Sarcococca vagans*. Ref: 399.

**19365 Sarcovagine D**

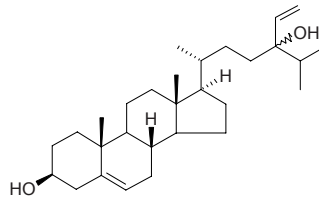
$C_{28}H_{44}N_2O_2$ (440.68). White crystals, mp 170~172°C, $[\alpha]_D^{25} = +39.5^\circ$ ($c = 0.07$, chloroform). Source: HAI NAN YE SHAN HUA *Sarcococca vagans*. Ref: 399.

**19366 Sargencuneside**

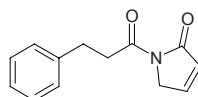
$C_{14}H_{20}O_7$ (300.31). Colorless acicular crystals (ethanol), mp 161~162°C. Source: DA XUE TENG *Sargentodoxa cuneata*. Ref: 481.

**19367 Saringosterol**

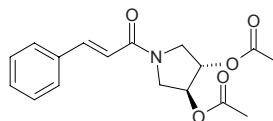
Stigmasta-5,28-diene-3,24-diol $C_{29}H_{48}O_2$ (428.70). mp 160~161°C. Source: QUN DAI CAI *Undaria pinnatifida*. Ref: 6.

**19368 Sarmentamide A**

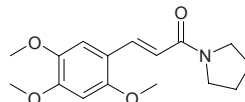
N-(Phenylpropanoyl)- Δ^3 -2-pyrrolidone $C_{13}H_{13}NO_2$ (215.25). Colorless oil. Source: JIA JU ZI *Piper sarmentosum* (fresh root: yield = 0.007%fw). Ref: 973.

**19369 Sarmentamide B**

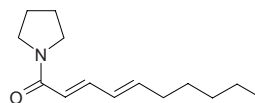
N-Cinnamoyl-*trans*-3,4-diacetoxypyrrolidine $C_{17}H_{19}NO_5$ (317.34). Colorless wax, $[\alpha]_D^{25} = 68.3^\circ$ ($c = 0.12$, MeOH). Source: JIA JU ZI *Piper sarmentosum* (fresh root: yield = 0.0016%fw). Ref: 973.

**19370 Sarmentamide C**

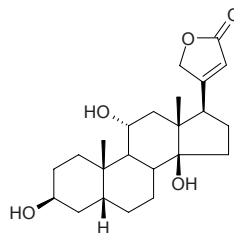
N-(2,4,5-Trimethoxycinnamoyl)pyrrolidine $C_{16}H_{21}NO_4$ (291.35). Colorless solid, mp 159~162°C. Source: JIA JU ZI *Piper sarmentosum* (fresh root: yield = 0.0025%fw). Ref: 973.

**19371 Sarmentine**

1-(1-Oxo-2*E*,4*E*-decadienyl)pyrrolidine $C_{14}H_{23}NO$ (221.35). Source: HU JIAO *Piper nigrum* (root: yield = 0.0034%dw), JIA JU ZI *Piper sarmentosum*. Ref: 660, 4753.

**19372 Sarmentogenin**

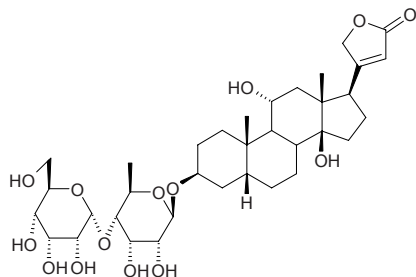
$C_{23}H_{34}O_5$ (390.52). Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 660.



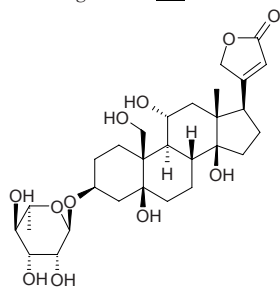
19373 Sarmentogenin-3 β -O-[α -allosyl-(1 \rightarrow 4)- β -6-deoxyalloside]

C₃₅H₅₄O₁₄ (698.81). White-brown powder, $[\alpha]_D^{24} = -5.2^\circ$ ($c = 2.3$, MeOH).

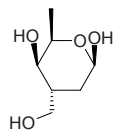
Pharm: Cytotoxic (KB, IC₅₀ = (0.075 \pm 0.004) μ mol/L, control Podophyllotoxin, IC₅₀ = 0.014 μ mol/L). **Source:** GAO MEI YING BAN *Crossopetalum gaumeri* (root). **Ref:** 3969.

**19374 Sarmentoloside**

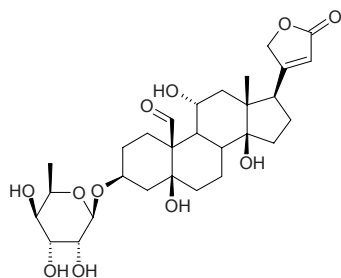
C₂₉H₄₄O₁₁ (568.67). **Pharm:** Toxin (vertebrate). **Source:** YANG JIAO AO ZI *Strophanthus divaricatus*, XI FEI YANG JIAO AO *Strophanthus sarmentosus* var. *senegambiae*. **Ref:** 658.

**19375 Sarmentose**

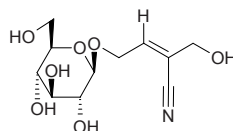
C₇H₁₄O₄ (162.19). mp 78~79°C. **Source:** FU SHOU CAO *Adonis amurensis*, LUO MO ZI *Metaplexis japonica*. **Ref:** 6.

**19376 Sarmentosigenin-3 β -O- β -6-deoxyguloside**

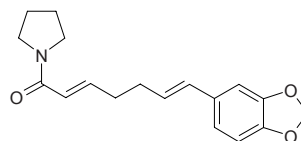
C₂₉H₄₂O₁₁ (566.65). White powder, $[\alpha]_D^{24} = -26.0^\circ$ ($c = 2.3$, MeOH). **Pharm:** Cytotoxic (KB, IC₅₀ = (0.074 \pm 0.009) μ mol/L, control Podophyllotoxin, IC₅₀ = 0.014 μ mol/L). **Source:** GAO MEI YING BAN *Crossopetalum gaumeri* (root). **Ref:** 3969.

**19377 Sarmentosin**

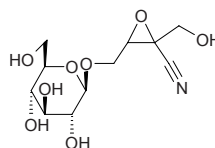
(E)-4-(β -D-Glucopyranosyloxy)-2-(hydroxymethyl)-2-butenitrile [71933-54-5] C₁₁H₁₇NO₇ (275.26). White gum, $[\alpha]_D^{22} = +39.99^\circ$ ($c = 0.5$, CHCl₃). **Pharm:** Reduces level of SGPT; antihepatotoxin (mus orl, repairs acute hepatic injury induced by CCl₄-liquid paraffin); inhibitory activity against NFAT transcription (IC₅₀ > 100 μ mol/L, positive control Cyclosporin A, IC₅₀ = (0.29 \pm 0.01) μ mol/L)^[2536]. **Source:** HUA CHA BIAO *Ribes fasciculatum* var. *chinense*, SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI ZHI JIA *Sedum sarmentosum* (whole herb: mean content of 2 origins = 0.415%^[5508]). **Ref:** 742, 2536, 5501, 5508.

**19378 Sarmentosine**

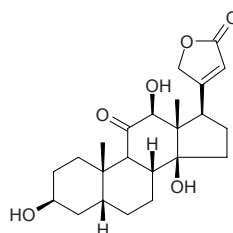
Piperamide C 7:2(2E,6E); 1-[1-Oxo-7(3,4-methylenedioxyphenyl)-2E,6E-heptadienyl]pyrrolidine [112448-68-7] C₁₈H₂₁NO₃ (299.37). mp 77.5~79.5°C. **Pharm:** Larvicidal. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.000071%dw), JIA JU ZI *Piper sarmentosum*. **Ref:** 660, 1510, 3240, 4753.

**19379 Sarmentosin epoxide**

C₁₁H₁₇NO₈ (291.26). **Pharm:** Toxin. **Source:** XI PA JING TIAN *Sedum cepaea*. **Ref:** 658.

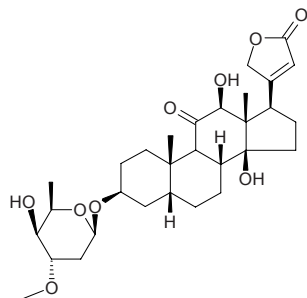
**19380 Sarmutogenin**

C₂₃H₃₂O₆ (404.51). **Source:** YANG JIAO AO ZI *Strophanthus divaricatus*. **Ref:** 660.

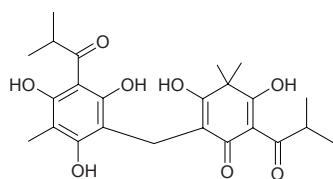


19381 Sarmutoside

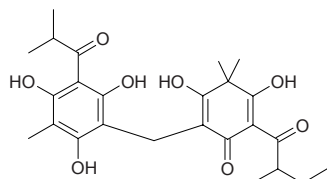
$C_{30}H_{44}O_9$ (548.68). mp 150~152°C, 233~245°C, 250~252°C. Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 6.

**19382 Saroaspidin A**

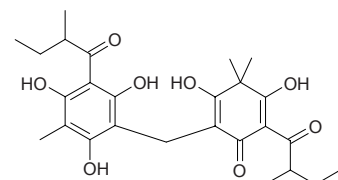
$C_{24}H_{30}O_8$ (446.50). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**19383 Saroaspidin B**

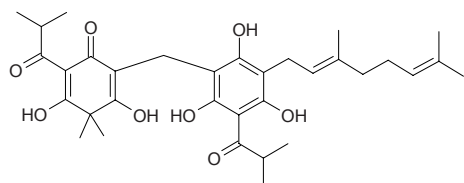
$C_{25}H_{32}O_8$ (460.53). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**19384 Saroaspidin C**

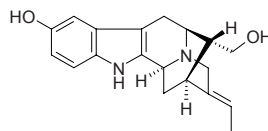
$C_{26}H_{34}O_8$ (474.56). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**19385 Sarothralen A**

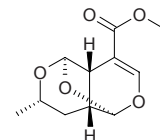
$C_{33}H_{44}O_8$ (568.71). Source: DI ER CAO *Hypericum japonicum*. Ref: 660.

**19386 Sarpagine**

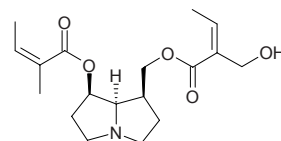
$C_{19}H_{22}N_2O_2$ (310.40). White prismatic crystals, mp 300~310°C, $[\alpha]_D^{24.4} = +48.65^\circ$ ($c = 1.483$, pyridine). Pharm: Adrenergic receptor blocker; antihypertensive (hypertensive dog, iv, 1~2mg/kg); nicotine antagonist. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, KA FU LA LUO FU MU *Rauwolfia caffra*, KE MING XI LUO FU MU *Rauwolfia cumminsii*, PI LI LUO FU MU *Rauwolfia perakensis*, YANG JIAO MIAN *Alstonia mairei*, YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 633, 658, 660.

**19387 Sarracenin**

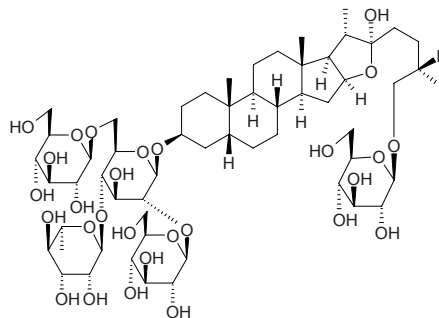
[59653-37-1] $C_{11}H_{14}O_5$ (226.23). mp 127~128°C (dec). Pharm: Antineoplastic (mus, P_{388} , 50mg/kg, *in vivo*, biotic prolonged rate = 50%). Source: HUANG PING ZI CAO *Sarracenia flava*. Ref: 5, 658.

**19388 Sarracine**

[2492-09-3] $C_{18}H_{27}NO_5$ (337.42). mp 45~46°C, 51~52°C. Pharm: Anticholinergic (inhibits acetylcholine); antispasmodic (relieves spasm of intestinal canal in gpg and rat); antiulcerative, used in treatment of gastric ulcer (in former USSR); bidirectional action to CNS (first stimulates center and then inhibits it); antihypertensive. Source: DA BAI DING CAO *Senecio oryzetorum*, HUANG WAN *Senecio nemorensis*, PING QIAN LI GUANG *Senecio sarracenicus*, YE SHENG QIAN LI GUANG *Senecio sylvaticus*. Ref: 5, 6, 658.

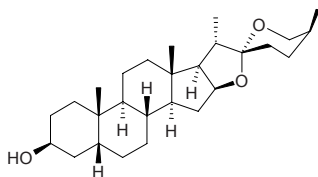
**19389 Sarsaparilloside**

$C_{57}H_{96}O_{28}$ (1229.38). Source: HUI BA QIA *Smilax aristolochiaefolia*. Ref: 658.

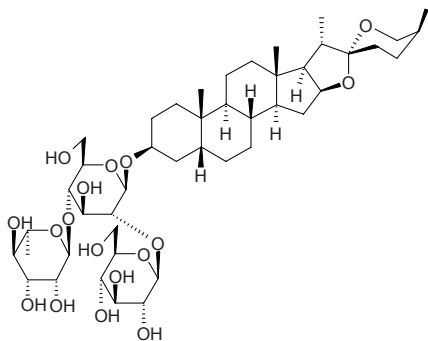


19390 Sarsasapogenin

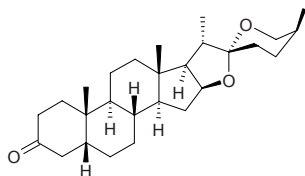
(25S)-5 β -Spirostan-3 β -ol [126-19-2] C₂₇H₄₄O₃ (416.65). **Pharm:** Raw material of synthesis of pregnane. **Source:** TIAN MEN DONG *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (dried tuberoid: 3 mean content of 3 origins = 0.2879%)^[5508], ZHI MU *Anemarrhena asphodeloides* (dried rhizome: content scope of 5 origins = 0.844%~1.832%, mean content = 1.354%)^[5508]. **Ref:** 2, 658, 5508.

**19391 Sarsasapogenin 3-O-4^C-rhamnosyl-sophorose**

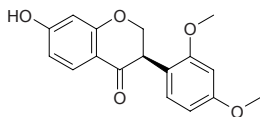
C₄₅H₇₄O₁₇ (887.09). **Pharm:** Molluscicide (*Biomphalaria glabrata*, LD₁₀₀ = 20mg/L). **Source:** WAN QU TIAN MEN DONG *Asparagus curillus*. **Ref:** 658.

**19392 Sarsasapogenone**

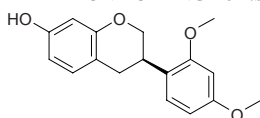
C₂₇H₄₂O₃ (414.63). mp 176~178°C, [α]_D²⁹ = -56.0° (c = 0.30, CHCl₃), existing in moldy source plant only. **Source:** CHA RUI SHU YU *Dioscorea collettii*. **Ref:** 10, 24, 660.

**19393 Sativanone**

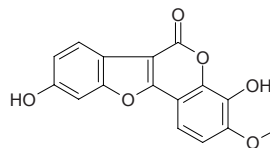
[70561-31-8] C₁₇H₁₆O₅ (300.31). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 716.

**19394 Sativin**

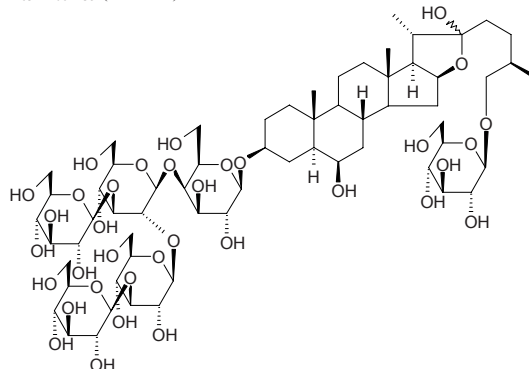
Sativan C₁₇H₁₈O₄ (286.33). **Pharm:** Antifungal. **Source:** HUA XU GENG BAI MAI GEN *Lotus pedunculatus*, MAO CI JIN JI ER *Caragana tibetica* (stem), YA MA XUN YU TENG *Derris amazonica*. **Ref:** 658, 4514.

**19395 Sativol**

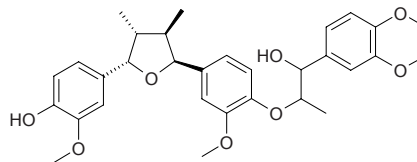
C₁₆H₁₀O₆ (298.25). mp 303°C. **Source:** MU XU *Medicago sativa*. **Ref:** 6.

**19396 Sativoside B₁**

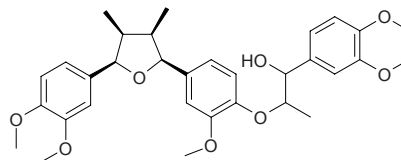
C₆₃H₁₀₆O₃₅ (1423.53). **Source:** DA SUAN *Allium sativum*. **Ref:** 660.

**19397 Saucerneol**

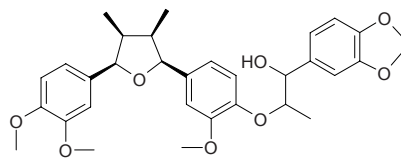
[88497-86-3] C₃₁H₃₈O₈ (538.64). **Source:** YU XING CAO *Houttuynia cordata*, *Saururus* sp. **Ref:** 2428.

**19398 Saucerneol A**

C₃₂H₄₀O₈ (552.67). Amorphous powder, [α]_D = -83° (c = 0.7, CHCl₃). **Source:** SAN BAI CAO *Saururus chinensis* (underground part). **Ref:** 4122.

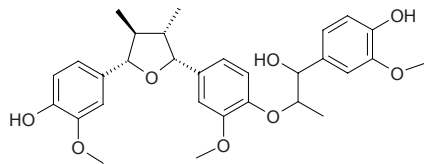
**19399 Saucerneol B**

C₃₁H₃₆O₈ (536.63). Amorphous powder, [α]_D = -58° (c = 0.6, CHCl₃). **Source:** SAN BAI CAO *Saururus chinensis* (underground part). **Ref:** 4122.

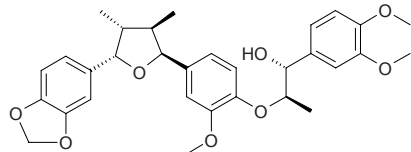


19400 Saucerneol C

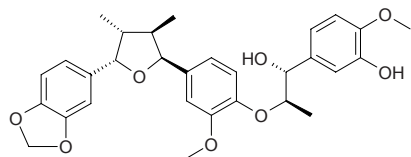
$C_{30}H_{36}O_8$ (524.62). Amorphous powder, $[\alpha]_D^{25} = -66^\circ$ ($c = 0.7$, $CHCl_3$). Source: SAN BAI CAO *Saururus chinensis* (underground part). Ref: 4122.

**19401 Saucerneol D**

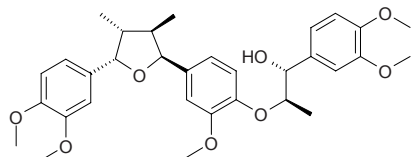
$C_{31}H_{36}O_8$ (536.63). Colorless powder, mp 75~76°C, $[\alpha]_D^{25} = -88.1^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Anti-inflammatory (NF- κ B inhibitor, $IC_{50} = 6.1 \mu\text{mol/L}$). Source: SAN BAI CAO *Saururus chinensis* (root). Ref: 3453.

**19402 Saucerneol E**

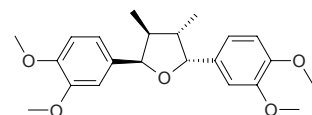
$C_{30}H_{34}O_8$ (522.60). Colorless powder, mp 76~78°C, $[\alpha]_D^{25} = -83.0^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Anti-inflammatory (NF- κ B inhibitor, $IC_{50} = 12.7 \mu\text{mol/L}$). Source: SAN BAI CAO *Saururus chinensis* (root). Ref: 3453.

**19403 (-)-Saucerneol methyl ether**

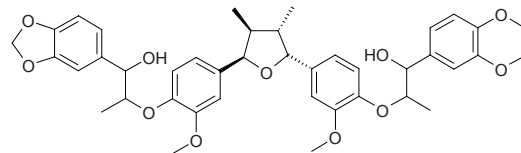
$C_{32}H_{40}O_8$ (552.67). Colorless powder, mp 72~74°C, $[\alpha]_D^{25} = -63.0^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Anti-inflammatory (NF- κ B inhibitor, $IC_{50} = 16.9 \mu\text{mol/L}$). Source: SAN BAI CAO *Saururus chinensis* (root). Ref: 3453.

**19404 Saucernefin**

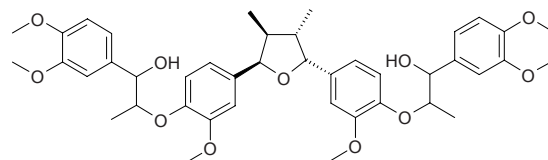
(+)-Saucernefin $C_{22}H_{28}O_5$ (372.47). Colorless powder, mp 78~80°C, $[\alpha]_D^{25} = +48.1^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: PAF antagonist^[658], anti-inflammatory (NF- κ B inhibitor, $IC_{50} > 30 \mu\text{mol/L}$)^[3453]. Source: MEI ZHOU SAN BAI CAO *Saururus cernuus*, SAN BAI CAO *Saururus chinensis* (root). Ref: 658, 3453.

**19405 Saucernefin 7**

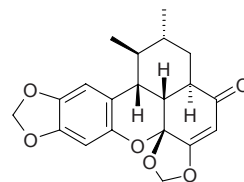
$C_{41}H_{48}O_{11}$ (716.83). Pale brown solid, $[\alpha]_D^{25} = -13.4^\circ$ ($c = 0.01$, MeOH). Pharm: Anti-inflammatory (NO production inhibitor, LPS-induced Raw264.7 cells; PGE₂ production inhibitor, LPS-induced Raw264.7 cells; suppresses expression of iNOS and COX-2 protein in a dose-dependent manner)^[5466]. Source: YU XING CAO *Houttuynia cordata*, SAN BAI CAO *Saururus chinensis*, *Saururus* sp. Ref: 2428, 5466.

**19406 Saucernefin 8**

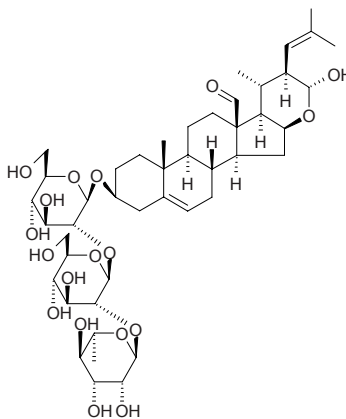
$C_{42}H_{52}O_{11}$ (732.88). Pale brown solid, $[\alpha]_D^{25} = -15.1^\circ$ ($c = 0.01$, MeOH). Pharm: Anti-inflammatory (NO production inhibitor, LPS-induced Raw264.7 cells; PGE₂ production inhibitor, LPS-induced Raw264.7 cells; suppresses expression of iNOS and COX-2 protein in a dose-dependent manner)^[5466]. Source: YU XING CAO *Houttuynia cordata*, SAN BAI CAO *Saururus chinensis*, *Saururus* sp. Ref: 2428, 5466.

**19407 Sauchinone**

$C_{20}H_{20}O_6$ (356.38). Colorless needles, mp 223~225°C, $[\alpha]_D^{25} = -96.2^\circ$ ($c = 1.7$, $CHCl_3$). Pharm: Anti-inflammatory (LPS-stimulated RAW264.7 cells, NO production inhibitor through suppression of NF- κ B by inhibiting transactivation activity of RelA subunit). Source: SAN BAI CAO *Saururus chinensis*. Ref: 5487.

**19408 Saundersioside C**

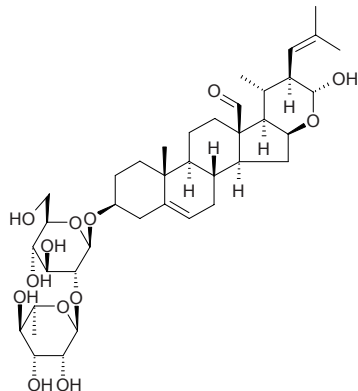
$C_{45}H_{70}O_{18}$ (899.05). Amorphous solid, $[\alpha]_D^{30} = -49.6^\circ$ ($c = 0.10$, MeOH). Source: *Ornithogalum saundersiae*. Ref: 2363.



19409 Saundersioside D

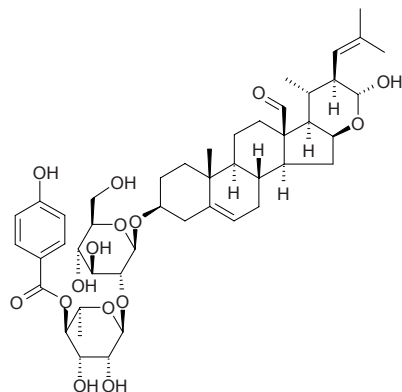
$C_{39}H_{60}O_{13}$ (736.91). Amorphous solid, $[\alpha]_D^{28} = -60.0^\circ$ ($c = 0.10$, MeOH).

Source: *Ornithogalum saundersiae*. Ref: 2363.

**19410 Saundersioside E**

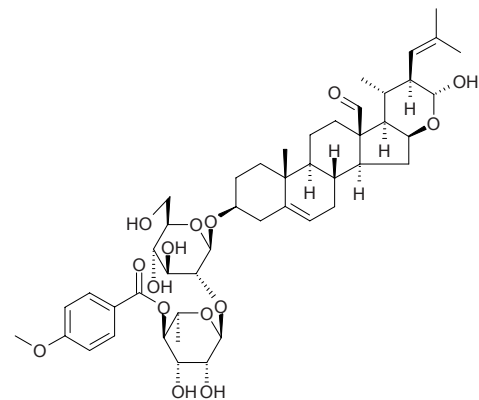
$C_{46}H_{64}O_{15}$ (857.01). Amorphous solid, $[\alpha]_D^{27} = -32.8^\circ$ ($c = 0.25$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, $IC_{50} = 0.021\mu\text{mol/L}$). Source: *Ornithogalum saundersiae*. Ref: 2363.

**19411 Saundersioside F**

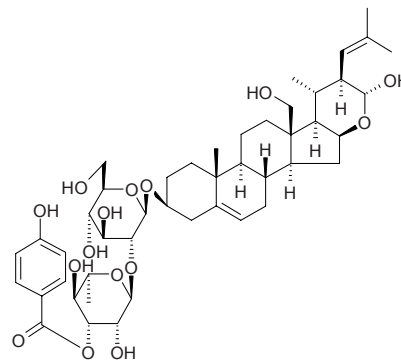
$C_{47}H_{66}O_{15}$ (871.04). Amorphous solid, $[\alpha]_D^{26} = -4.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, $IC_{50} = 0.019\mu\text{mol/L}$). Source: *Ornithogalum saundersiae*. Ref: 2363.

**19412 Saundersioside G**

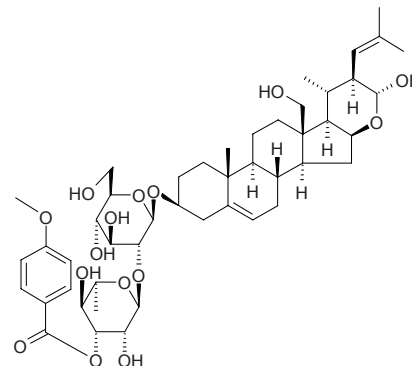
$C_{46}H_{66}O_{15}$ (859.03). Amorphous solid, $[\alpha]_D^{26} = -20.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, $IC_{50} = 0.063\mu\text{mol/L}$). Source: *Ornithogalum saundersiae*. Ref: 2363.

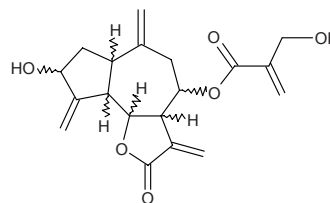
**19413 Saundersioside H**

$C_{47}H_{68}O_{15}$ (873.06). Amorphous solid, $[\alpha]_D^{26} = -16.0^\circ$ ($c = 0.10$, MeOH).

Pharm: Cytotoxic (cytostatic, HL-60 cells, $IC_{50} = 0.052\mu\text{mol/L}$). Source: *Ornithogalum saundersiae*. Ref: 2363.

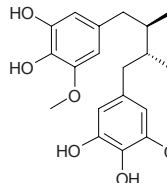
**19414 Saupirin**

$C_{19}H_{22}O_6$ (346.39). Pharm: Antiprotozoal (pathogenic amoeba and *Trichomonas vaginalis*). Source: MEI HUA FENG MAO JU *Saussurea pulchella*, XIN MEI FENG MAO JU *Saussurea neopulchella*. Ref: 658.

**19415 Sauriol A**

$C_{20}H_{26}O_6$ (362.43). White amorphous solid, $[\alpha]_D = -240^\circ$ ($c = 0.03$, $CHCl_3$).

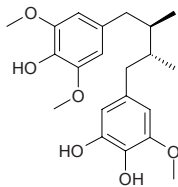
Source: MEI ZHOU SAN BAI CAO *Saururus cernuus*. Ref: 3959.



19416 Sauriol B

$C_{21}H_{28}O_6$ (376.45). White amorphous solid, $[\alpha]_D = -92^\circ$ ($c = 0.13$, $CHCl_3$).

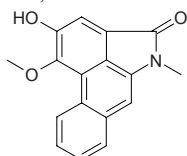
Source: MEI ZHOU SAN BAI CAO *Saururus cernuus*. Ref: 3959.

**19417 Sauristolactam**

Sauristolactam $C_{17}H_{13}NO_3$ (279.30). Source: MEI ZHOU SAN BAI CAO

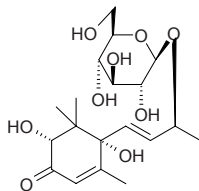
Saururus cernuus, SAN BAI CAO *Saururus chinensis* (aerial parts). Ref:

2428, 4968.

**19418 Sauroposide**

$C_{19}H_{30}O_9$ (402.45). Amorphous powder, $[\alpha]_D^{31} = -37.9^\circ$ ($c = 1.11$, MeOH).

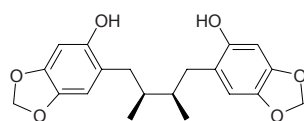
Source: TONG XU SHOU GONG MU *Sauropus androgynus*. Ref: 3432.

**19419 Saururin A**

$C_{20}H_{22}O_6$ (358.39). Pale brown solid, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.45$, $CHCl_3$). Pharm:

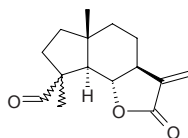
Antioxidant (*in vitro*, low-density lipoprotein peroxidation, $IC_{50} = 8.5 \mu\text{mol/L}$; control Probulcol, $IC_{50} = 1.3 \mu\text{mol/L}$). Source: SAN BAI CAO *Saururus*

chinensis. (underground part). Ref: 3096.

**19420 Saussureal**

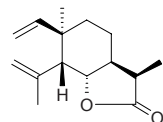
$C_{15}H_{20}O_3$ (248.32). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia*

lappa]. Ref: 660.

**19421 Saussurea lactone**

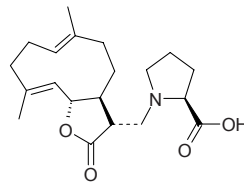
$C_{15}H_{22}O_2$ (234.34). mp 148–149°C. Source: MU XIANG *Saussurea lappa*

[Syn. *Aucklandia lappa*]. Ref: 2, 6.

**19422 Saussureamine A**

[148245-82-3] $C_{20}H_{29}NO_4$ (347.46). Colorless prismatic crystals, mp

135–139°C, $[\alpha]_D^{24} = +36.7^\circ$ (methanol). Pharm: Antiulcerative (stomach ulcer caused by HCl/ethanol, rat, 100mg/kg, InRt = 59.8%, mus, 200mg/kg, InRt = 57%). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 986.

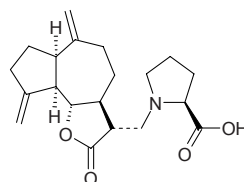
**19423 Saussureamine B**

[126209-82-3] $C_{20}H_{27}NO_4$ (345.44). White powder, $[\alpha]_D = -25.9^\circ$ (methanol).

Pharm: Antiulcerative (rat, stomach ulcer caused by HCl/ethanol, 50mg/kg,

InRt = 87.2%). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia*

lappa]. Ref: 986.

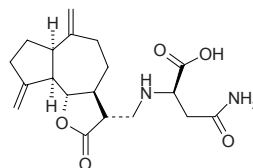
**19424 Saussureamine C**

[148245-83-4] $C_{19}H_{26}N_2O_5$ (362.43). White powder, $[\alpha]_D = -17.2^\circ$ (methanol).

Pharm: Antiulcerative (rat, stomach ulcer caused by HCl/ethanol, 100mg/kg,

InRt = 68.1%). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia*

lappa]. Ref: 986.

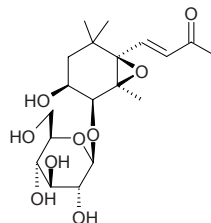
**19425 Saussureoside A**

$C_{19}H_{30}O_9$ (402.45). White powder, $[\alpha]_D^{24} = -45.0^\circ$ ($c = 0.80$, MeOH). Pharm:

Aldose reductase inhibitor inactive ($IC_{50} > 100 \mu\text{mol/L}$, 100 $\mu\text{mol/L}$ InRt = 3%,

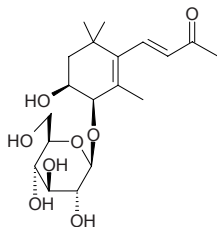
control Epalrestat, $IC_{50} = 0.072 \mu\text{mol/L}$). Source: SHUI MU XUE LIAN HUA

Saussurea medusa (whole herb). Ref: 4530.

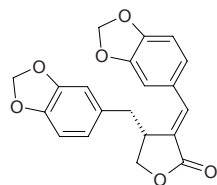


19426 Saussureoside B

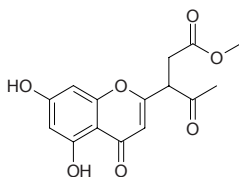
$C_{19}H_{30}O_8$ (386.45). White powder, $[\alpha]_D^{26} = -39.5^\circ$ ($c = 0.98$, MeOH). **Pharm:** Aldose reductase inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, $100\mu\text{mol/L}$ InRt = 13%, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$). **Source:** SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb). **Ref:** 4530.

**19427 Savinin**

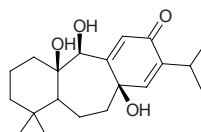
Saussurine $C_{20}H_{16}O_6$ (352.35). mp 146.4~148.4°C. **Pharm:** Antirheumatic; regulates menstrual cycle; anti-inflammatory (modulator of cytokine network: inhibits LPS-activated production of TNF- α in RAW264.7 cells, $IC_{50} = 31.9\mu\text{mol/L}$)^[4416]; cytotoxic (A549, $ED_{50} = 6.7\mu\text{mol/L}$, $ED_{50} = 19.1\mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01\mu\text{mol/L}$, $ED_{50} = 0.02\mu\text{g/mL}$; MCF7, $ED_{50} = 0.5\mu\text{mol/L}$, $ED_{50} = 1.5\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$; HT29, $ED_{50} = 1.5\mu\text{mol/L}$, $ED_{50} = 4.3\mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1\mu\text{mol/L}$, $ED_{50} = 0.1\mu\text{g/mL}$)^[5088]. **Source:** CHA ZI YUAN BAI *Juniperus sabina*, CHOU CAO *Ruta graveolens*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], TAI WAN SHAN *Taiwania cryptomerioides* (heartwood), WU GENG WU JIA PI *Acanthopanax sessiliflorus*, XIAO GUO YUN XIANG *Ruta microcarpa*, SI ZI TAN *Pterocarpus santalinus* (heartwood), *Justicia hyssopifolia* (aerial parts). **Ref:** 2, 6, 658, 4259, 4416, 5088, 5501.

**19428 Sawarachromone**

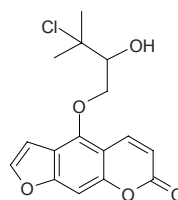
5,7-Dihydroxy-2-(1-acetyl-2-methoxycarbonylethyl)-chromone $C_{15}H_{14}O_7$ (306.27). Fine crystals, mp 191~19°C (MeOH). **Pharm:** Antibacterial inactive (*Staphylococcus aureus*, MIC > 100 $\mu\text{g/mL}$; *Bacillus subtilis*, MIC > 100 $\mu\text{g/mL}$). **Source:** RI BEN HUA BAI *Chamaecyparis pisifera* (leaf). **Ref:** 4144.

**19429 Sawaradienone**

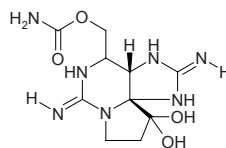
rel-(8*R*,10*R*,20*S*)-8,10,20-Trihydroxy-9(10 \rightarrow 20)-abeo-abieta-9,13-dien-12-one $C_{20}H_{30}O_4$ (334.46). Colorless viscous oil. **Pharm:** Antibacterial inactive (*Staphylococcus aureus*, MIC > 100 $\mu\text{g/mL}$; *Bacillus subtilis*, MIC > 100 $\mu\text{g/mL}$). **Source:** RI BEN HUA BAI *Chamaecyparis pisifera* (leaf). **Ref:** 4144.

**19430 Saxalin**

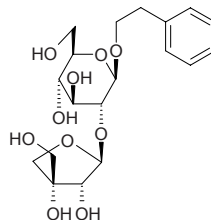
$C_{16}H_{15}ClO_5$ (322.75). **Source:** *Niphogeton ternata*. **Ref:** 4156.

**19431 Saxitoxin**

Mussel poison; Clam poison $C_{10}H_{17}N_7O_4$ (299.29). Easily soluble in water, methanol, slightly soluble in ethanol, ice vinegar, insoluble in lipidic solvents. **Pharm:** Blocks nerve; LD (hmn, orl) = 0.10-0.12mg or 0.54-0.90mg. **Source:** BAI TA GE *Saxidomus giganteus*, *Platypodia granulosa*, *Emerita analoga*. **Ref:** 658, 5507.

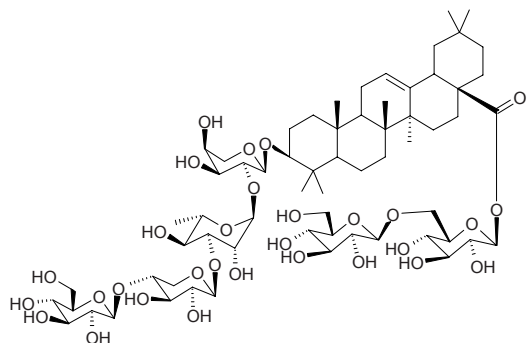
**19432 Sayaendoside**

Phenethyl 1-*O*- β -D-apiofuranosyl (1 \rightarrow 2)- β -D-glucopyranoside $C_{19}H_{28}O_{10}$ (416.43). Yellow powder, $[\alpha]_D^{25} = -18.6^\circ$ ($c = 0.05$, MeOH). **Source:** WAN DOU *Pisum sativum* (young seedpot). **Ref:** 4110.

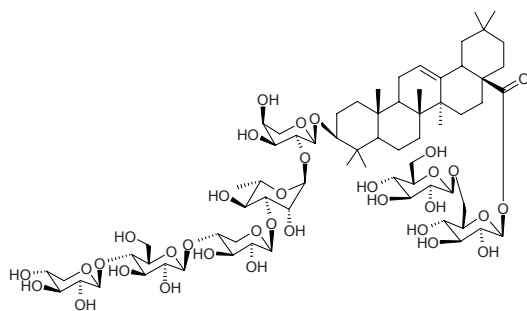


19433 Scabiosaponin A

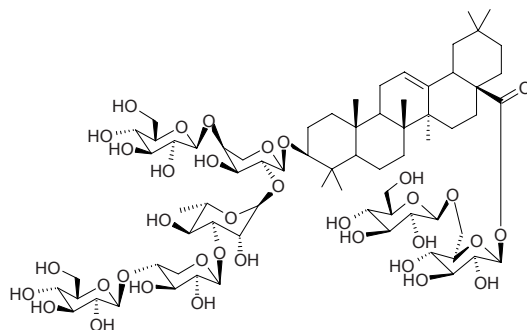
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₄H₁₀₄O₃₀ (1353.52). Amorphous solid, mp 216–218°C, $[\alpha]_D^{20} = -6.6^\circ$ ($c = 0.10$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, weak). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.0052%dw). **Ref:** 3021.

**19434 Scabiosaponin B**

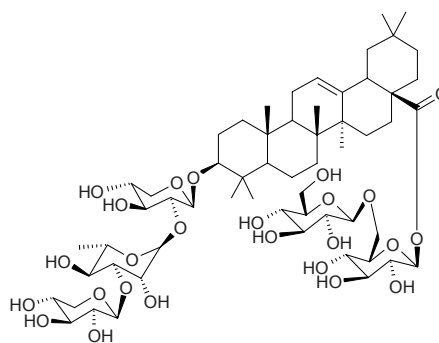
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₉H₁₁₂O₃₄ (1485.64). Amorphous solid, mp 230–231°C, $[\alpha]_D^{25} = -28.9^\circ$ ($c = 0.30$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, weak). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.0010%dw). **Ref:** 3021.

**19435 Scabiosaponin C**

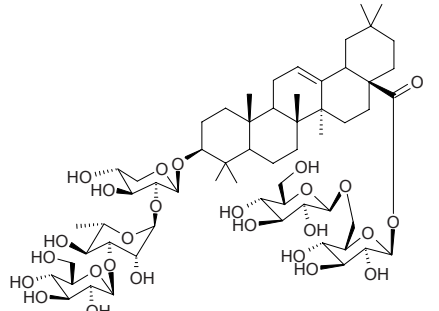
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)] [β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₇₀H₁₁₄O₃₅ (1515.67). Amorphous solid, mp²¹9–220°C, $[\alpha]_D^{25} = -19.3^\circ$ ($c = 0.20$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, weak). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00058%dw). **Ref:** 3021.

**19436 Scabiosaponin E**

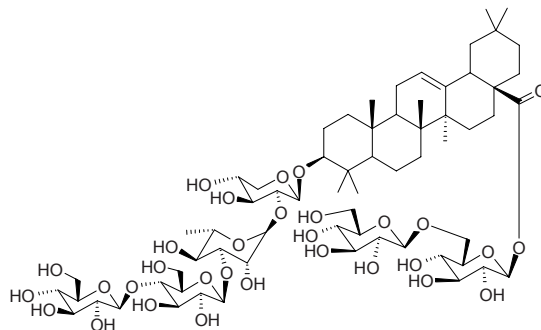
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₈H₉₄O₂₅ (1191.38). Amorphous solid, mp 208–210°C, $[\alpha]_D^{20} = -22.9^\circ$ ($c = 0.56$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 80%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00052%dw). **Ref:** 3021.

**19437 Scabiosaponin F**

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₉H₉₆O₂₆ (1221.41). Amorphous solid, mp²¹8–219°C, $[\alpha]_D^{25} = -11.1^\circ$ ($c = 0.10$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 73%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00033%dw). **Ref:** 3021.

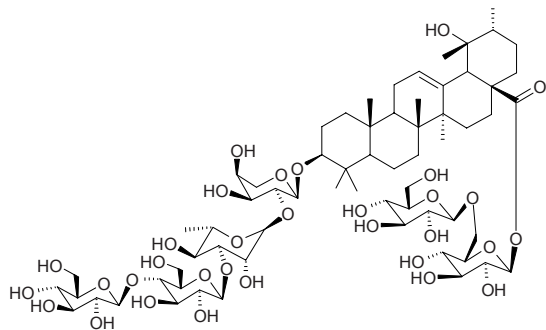
**19438 Scabiosaponin G**

3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyloleanoic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₅H₁₀₆O₃₁ (1383.55). Amorphous solid, mp 228–230°C, $[\alpha]_D^{21} = -20.3^\circ$ ($c = 1.28$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 78%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00026%dw). **Ref:** 3021.

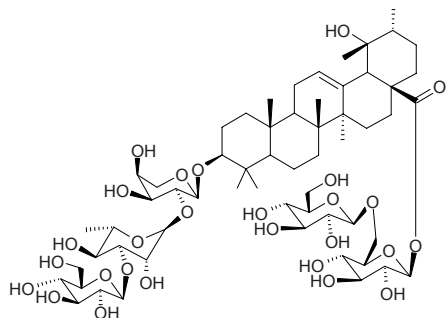


19439 Scabiosaponin H

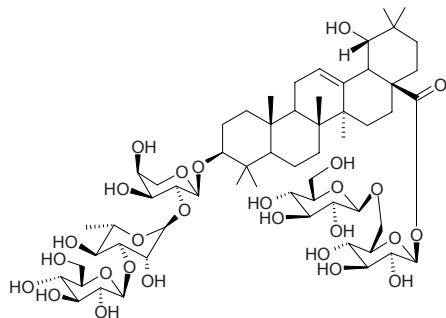
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylpomolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₅H₁₀₆O₃₂ (1399.55). Amorphous solid, mp 230–232°C, $[\alpha]_D^{20} = -11.3^\circ$ ($c = 0.10$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 57%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.0023%dw). **Ref:** 3021.

**19440 Scabiosaponin I**

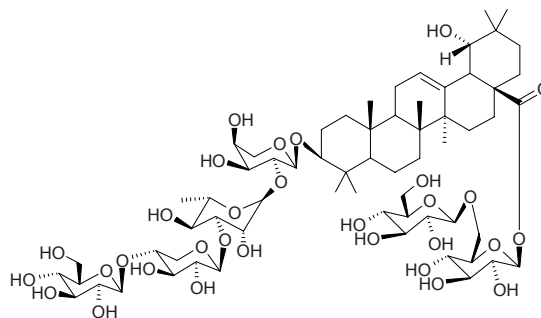
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylpomolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₉H₉₆O₂₇ (1237.41). Amorphous solid, mp²¹ 3–215°C, $[\alpha]_D^{20} = -15.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 71%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.0025%dw). **Ref:** 3021.

**19441 Scabiosaponin J**

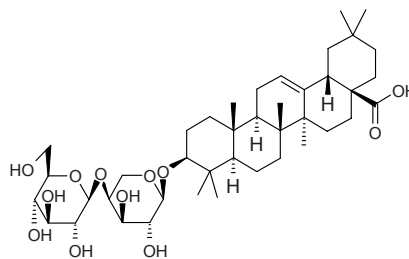
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylsaresinolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₅₉H₉₆O₂₇ (1237.41). Amorphous solid, mp²¹ 2–214°C, $[\alpha]_D^{20} = -6.5^\circ$ ($c = 0.10$, MeOH). **Pharm:** Pancreatic lipase inhibitor (*in vitro*, 1mg/mL, InRt comparing the control = 69%). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00069%dw). **Ref:** 3021.

**19442 Scabiosaponin K**

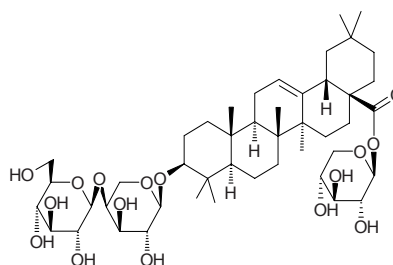
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylsaresinolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₆₄H₁₀₄O₃₁ (1369.52). Amorphous solid, mp 220–222°C, $[\alpha]_D^{20} = -36^\circ$ ($c = 0.10$, MeOH). **Source:** HUA BEI LAN PEN HUA *Scabiosa tschiliensis* (whole herb: yield = 0.00014%dw). **Ref:** 3021.

**19443 Scabioside B**

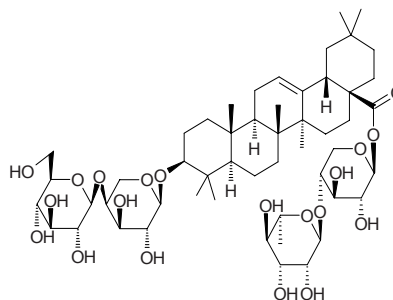
C₄₁H₆₆O₁₂ (750.98). mp 210–212°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. **Ref:** 2.

**19444 Scabioside D**

C₄₆H₇₄O₁₆ (883.09). mp 224–226°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. **Ref:** 2.

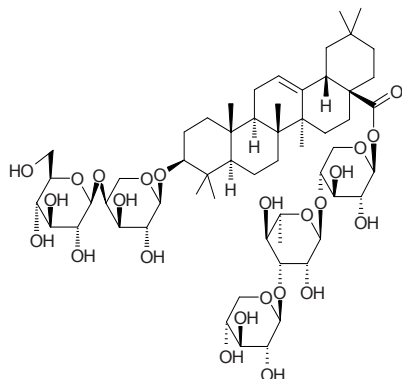
**19445 Scabioside E**

C₅₂H₈₄O₂₀ (1029.24). mp 224–227°C. **Source:** HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. **Ref:** 2.

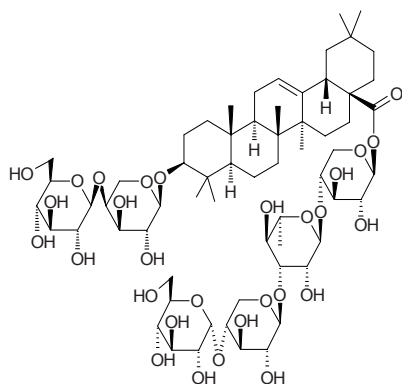


19446 Scabioside F

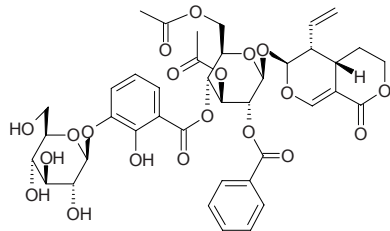
$C_{57}H_{92}O_{24}$ (1161.35). Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2.

**19447 Scabioside G**

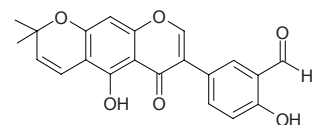
$C_{63}H_{102}O_{29}$ (1323.50). mp 235–236°C. Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2.

**19448 Scaboside**

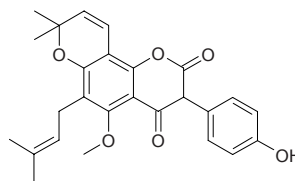
$C_{40}H_{44}O_{20}$ (844.78). Source: LONG DAN *Gentiana scabra*. Ref: 2.

**19449 Scandenal**

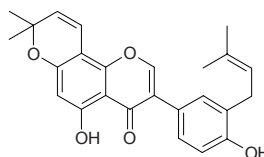
3'-Formyl-4',5'-dihydroxy-2'',2''-dimethylchromeno-[6,7:5'',6'']isoflavone $C_{21}H_{16}O_6$ (364.36). Yellow solid, mp 79–80°C. Pharm: Increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 0.4mg/kg, 11.67mmHg). Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 3810.

**19450 Scandenin**

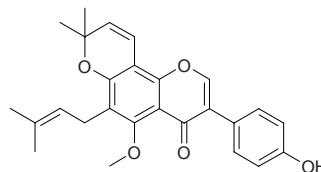
$C_{26}H_{26}O_6$ (434.49). Pharm: Anti-Inflammatory (inhibit brain liposomal peroxidation, 50μg/mL, optical density of DMSO control = (16.9±0.1)%, $p < 0.001$; positive control Propyl gallate, 7.5μmol/mL, optical density of DMSO control = (20.6±0.2)%). Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 4984.

**19451 Scanderone**

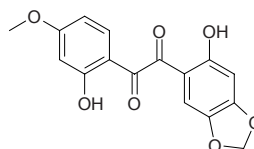
4',5-Dihydroxy-3'-prenyl-2'',2''-dimethylchromeno-[7,8:6'',5'']isoflavone $C_{25}H_{24}O_5$ (404.47). Yellow solid, mp 115–116°C. Pharm: Increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 4.0mg/kg, 20mmHg). Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 3810.

**19452 Scandinone**

$C_{26}H_{26}O_5$ (418.49). Yellow amorphous. Pharm: Antifungal (*Trichophyton mentagrophytes*, 500–1000μg/mL)^[2347]; antioxidant (DPPH scavenger, ScRt = 63.16%, control BHT, ScRt = 71.5%)^[3810]; antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 256μg/mL, control Vancomycin, MIC = 0.5μg/mL; MRSA SK1, MIC > 256μg/mL, Vancomycin, MIC = 1.0μg/mL)^[3810]; increases blood pressure (anesthetized rats, increases in mean arterial blood pressure, 4.0mg/kg, 9.17mmHg)^[3810]. Source: PAN YUAN YU TENG *Derris scandens*. Ref: 2347, 3810.

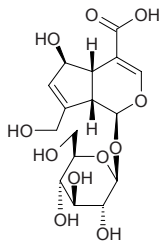
**19453 Scandione**

2',2''-Dihydroxy-4'-methoxy-4'',5''-methylenedioxybenzil $C_{16}H_{12}O_7$ (316.27). Yellow solid, mp 132–133°C. Source: PAN YUAN YU TENG *Derris scandens* (stem). Ref: 3810.

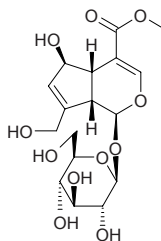


19454 Scandoside

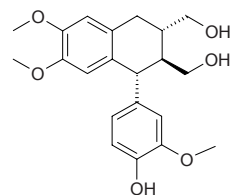
[18842-99-4] C₁₆H₂₂O₁₁ (390.35). mp 139~143°C. Source: JI SHI TENG *Paederia scandens*. Ref: 6.

**19455 Scandoside methyl ester**

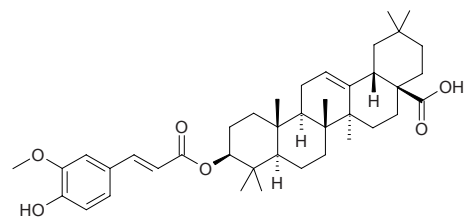
C₁₇H₂₄O₁₁ (404.37). Pharm: Antineoplastic (strong). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 626, 658.

**19456 Scaphopetalone**

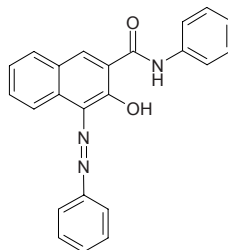
9,4,9'-Trihydroxy 4,5,3'-trimethoxy aryltetralin lignan C₂₁H₂₆O₆ (374.44). Brown sticky oil. Source: *Scaphopetalum thonneri* (stem cortex). Ref: 3363.

**19457 Scaphopetalumate**

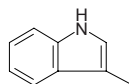
3β-O-E-Feruloyl oleanolic acid C₄₀H₅₆O₆ (632.89). Amorphous powder. Source: *Scaphopetalum thonneri* (stem cortex). Ref: 3363.

**19458 Scarlet808**

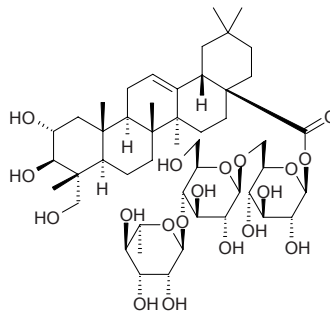
2-Hydroxy-3-(phenylaminocarbonyl)naphthalene-1-azobenzene C₂₃H₁₇N₃O₂ (367.41). Red needles (CHCl₃), mp 249~250°C. Pharm: Cytotoxic (K562, inhibits cell proliferation). Source: MI MAI E ZHANG CHAI *Schefflera venulosa* (stem cortex). Ref: 4600.

**19459 Scatole**

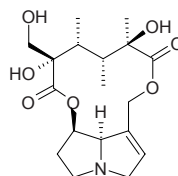
Skatole [83-34-1] C₉H₉N (131.18). mp 95°C, bp 265~266°C/755mmHg. Pharm: Funk. Source: LING MAO XIANG *Viverra zibetha*, TIAN CAI *Beta vulgaris*, *Arum* sp. Ref: 6, 658.

**19460 Scaffoleoside A**

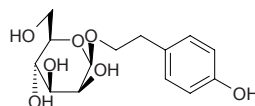
C₄₈H₇₈O₁₉ (959.15). Source: JI XUE CAO *Centella asiatica* (aerial parts). Ref: 4135.

**19461 Sceleratine**

[6190-25-6] C₁₈H₂₇NO₇ (369.42). mp 178°C, [α]_D²¹ = +54° (ethanol). Pharm: Uterine stimulant (gpg, *in vitro*, EC = 1:20000); toxin (humans and livestock, liver). Source: LA QIAN LI GUANG *Senecio sceleratus*. Ref: 661.

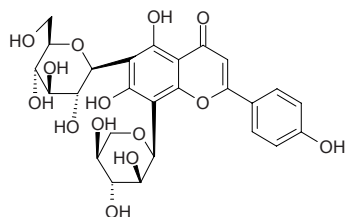
**19462 Sceptroside**

C₁₄H₂₀O₇ (300.31). Amorphous solid, [α]_D²⁰ = -51° (c = 0.5, MeOH). Source: *Isoplexis sceptrum* (fresh leaf). Ref: 5291.

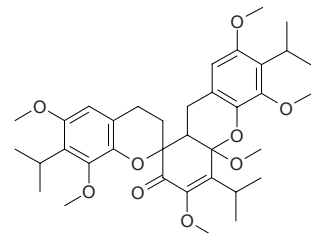


19463 Schaftoside

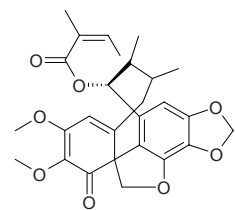
[51938-32-0] C₂₆H₂₈O₁₄ (564.50). **Pharm:** Insect phagostimulant (*Plant hoppers*). **Source:** GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content = 0.038%)^[5508], GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.015%)^[5508], JING MI *Oryza sativa*^[658], TIAN NAN XING *Arisaema consanguineum* (dried tuber: content scope of 9 origins = 0.0102%–0.185%, mean content = 0.038%)^[5508], YI YE TIAN NAN XING *Arisaema heterophyllum* (dried tuber: content scope of 7 origins = 0.009%–0.0555%, mean content = 0.052%)^[5508], ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.038%)^[5508]. **Ref:** 658, 5508.

**19464 (±)-Schefflone**

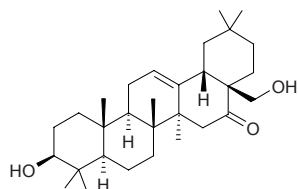
C₃₆H₄₈O₉ (624.78). Creamy crystals, mp 210°C, [α]_D = 0.0° (c = 0.16, CHCl₃). **Source:** XIE FEI ZI YU PAN *Uvaria scheffleri* (root cortex). **Ref:** 3763.

**19465 Schiarisanrin E**

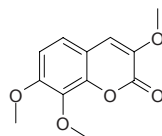
C₂₇H₃₀O₈ (482.54). Pale yellow solid. **Pharm:** Antihepatitis inactive (anti-HBsAg, 100μg/mL, InRt < 25%, inactive; anti-HBeAg, 100μg/mL, InRt < 25%, inactive). **Source:** A LI SHAN WU WEI ZI *Schisandra arisanensis* (stem). **Ref:** 4397.

**19466 Schimperinone**

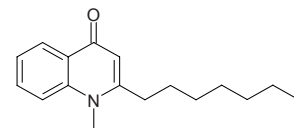
3β,28-dihydroxy-16-oxo-12-oleanene C₃₀H₄₈O₃ (456.72). Colorless needles, mp 269–271°C, [α]_D²⁵ = –11° (c = 0.6, CHCl₃). **Source:** KEN NI YA XIAN SUAN QIANG *Embelia schimperi*. **Ref:** 2058.

**19467 Schinicooumarin**

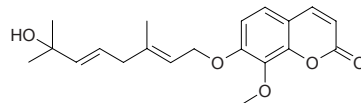
3,7,8-Trimethoxycoumarin [168074-91-7] C₁₂H₁₂O₅ (236.22). Acicular crystals (Benzene–ethyl formate), mp 147–151°C. **Pharm:** Platelet aggregation inhibitor (caused by arachidonic acid, 100μg/mL InRt = 100%). **Source:** QING JIAO *Zanthoxylum schinifolium*. **Ref:** 1098.

**19468 Schinifoline**

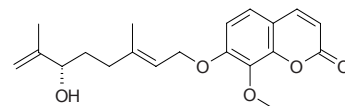
N-methyl-2-heptyl-4(1*H*)-quinolone [80554-58-1] C₁₇H₂₃NO (257.38). White acicular crystals (hexane:chloroform = 7:3), mp 81–82°C. **Pharm:** Antibacterial (gram-positive bacteria); platelet aggregation inhibitor; DNA isomerase inhibitor; cytotoxic. **Source:** HUA JIAO *Zanthoxylum bungeanum* (dried ripe pericarp: content = 0.007%)^[5508], QING JIAO *Zanthoxylum schinifolium* (dried ripe pericarp: content = 0.047%)^[5508]. **Ref:** 207, 660, 2176, 5508.

**19469 Schinilenol**

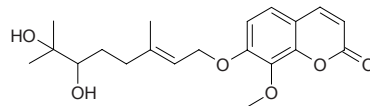
C₂₀H₂₄O₅ (344.41). **Pharm:** Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**19470 Schininallyl**

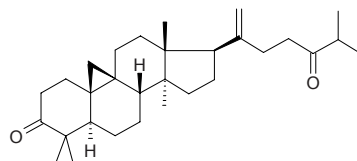
[168074-92-8] C₂₀H₂₄O₅ (344.41). Prismatic crystals, mp 78–80°C, [α]_D²² = –16.4° (c = 0.07, chloroform). **Pharm:** Platelet aggregation inhibitor (*in vitro*, caused by arachidonic acid, collagen and PAF, 100μg/mL, P < 0.001). **Source:** QING JIAO *Zanthoxylum schinifolium*. **Ref:** 1098.

**19471 Schinindiol**

C₂₀H₂₆O₆ (362.43). **Pharm:** Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

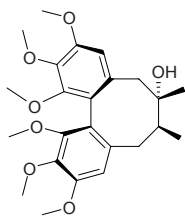
**19472 Schisandraflorin**

C₃₀H₄₆O₂ (438.70). **Pharm:** Antineoplastic; anti-HIV. **Source:** DA HUA WU WEI ZI *Schisandra grandiflora*. **Ref:** 2523.

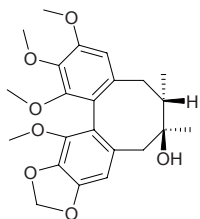


19473 Schisandrol A

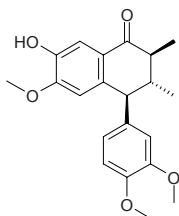
Wuweizichun A [7432-28-2] $C_{24}H_{32}O_7$ (432.52). mp 118~119°C, 133°C, $[\alpha]_D^{23} = +76.1^\circ$ ($c = 0.71$, $CHCl_3$). **Pharm:** Analgesic; antipyretic; antispasmodic; smooth muscle relaxant; choleric; antihepatotoxin (repairs hepatic injury induced by CCl_4 and galactosamine, reduces SGPT and SGOT); CNS depressant; inhibits gastric secretion; slows heart rate; tonic (effective component in *Schisandra chinensis* WU WEI ZI); NFAT transcription inhibitor ($IC_{50} = (1.34 \pm 0.05) \mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (1.20 \pm 0.29) \text{nmol/L}$)^[5343]. **Source:** HU LU BA *Trigonella foenum-graecum*, HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 3 origins = 0.004%~0.079%, mean content = 0.04%)^[5508], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 2.24%~9.87%, mean content = 4.39%)^[5508]. **Ref:** 2, 4, 6, 588, 5343, 5508.

**19474 Schisandrol B**

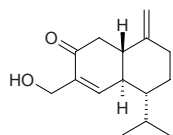
$C_{23}H_{28}O_7$ (416.48). $[\alpha]_D^{23} = +72.2^\circ$ ($c = 0.53$, $CHCl_3$). **Pharm:** NFAT (nuclear factor of activated T cells) transcription inhibitor ($IC_{50} = (16.37 \pm 1.00) \mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (1.20 \pm 0.29) \text{nmol/L}$)^[5343]. **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 3 origins = 0.027%~0.038%, mean content = 0.032%)^[5508], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 0.74%~3.75%, mean content = 1.40%)^[5508]. **Ref:** 5343, 5508.

**19475 Schisandrone**

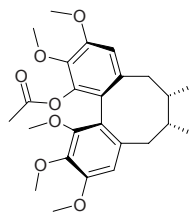
$C_{21}H_{24}O_5$ (356.42). **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660.

**19476 Schisandronol**

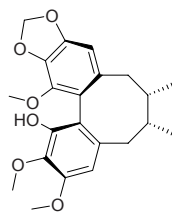
[61206-02-8] $C_{15}H_{22}O_2$ (234.34). **Source:** NEI FENG XIAO WU WEI ZI *Schisandra nigra*. **Ref:** 1521.

**19477 Schisanhenol acetate**

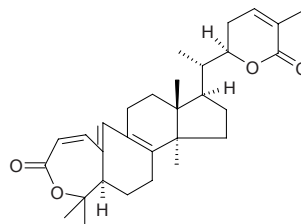
$C_{25}H_{32}O_7$ (444.53). Acicular crystals, mp 157~159°C, $[\alpha]_D^{35} = +31.6^\circ$ (ethanol). **Source:** HONG HUA WU WEI ZI *Schisandra rubriflora*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 39.

**19478 Schisanhenol B**

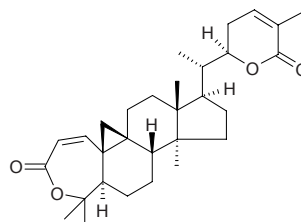
$C_{22}H_{26}O_6$ (386.45). Granular crystals (petroleum spirit-ether), mp 144~146°C. **Source:** HONG HUA WU WEI ZI *Schisandra rubriflora*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 39.

**19479 Schisanlactone A**

[87164-31-6] $C_{30}H_{40}O_4$ (464.65). Crystals, mp 227~229°C, $[\alpha]_D^{23} = +365^\circ$ ($c = 0.20$, $CHCl_3$). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], *Schisandra* sp. **Ref:** 2437, 2438, 2523.

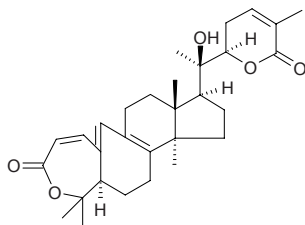
**19480 Schisanlactone B**

$C_{30}H_{42}O_4$ (466.67). Crystals, mp 205~207°C, $[\alpha]_D^{20} = +80.2^\circ$ ($c = 0.94$, $CHCl_3$). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], *Schisandra* sp. **Ref:** 1185, 2437, 2523.

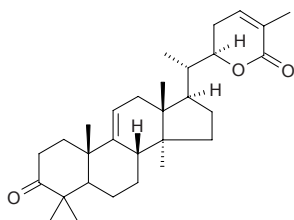


19481 Schisanlactone C

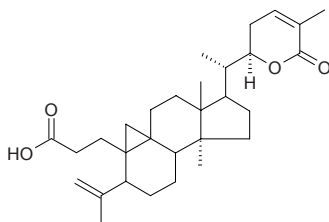
[92051-27-9] C₃₀H₄₀O₅ (480.65). Source: *Schisandra* sp. Ref: 2441.

**19482 Schisanlactone D**

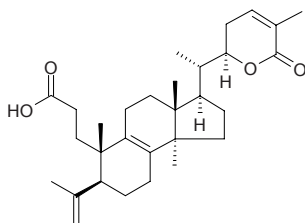
[92051-26-8] C₃₀H₄₄O₃ (452.68). Source: *Schisandra* sp. Ref: 2441.

**19483 Schisanlactone E**

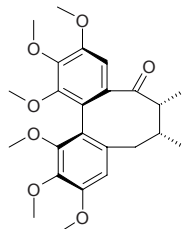
[136040-43-2] C₃₀H₄₄O₄ (468.68). mp 120~122°C, [α]_D¹⁵ = -113.0° (c = 0.330, chloroform). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 10 μg/mL)^[2523]. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1185, 2523.

**19484 Schisanlactone F**

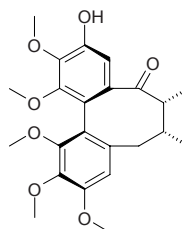
C₃₀H₄₄O₄ (468.68). Pharm: Antineoplastic^[2523]; anti-HIV^[2523]. Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 2438, 2440, 2523.

**19485 Schisanlignone A**

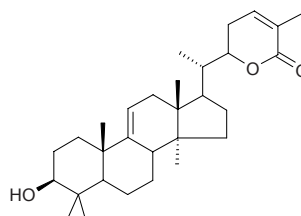
[13557-67-4] C₂₄H₃₀O₇ (430.50). Crystals (ethyl formate), mp 104~105°C, [α]_D²⁴ = -74.8° (c = 0.210, chloroform). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 10 μg/mL). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1184.

**19486 Schisanlignone B**

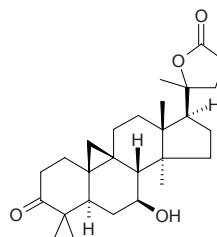
[135459-86-8] C₂₃H₂₈O₇ (416.47). mp 151~152°C, [α]_D²⁴ = -36.9° (c = 0.2355, chloroform). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 10 μg/mL). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1184.

**19487 Schisanol**

C₃₀H₄₆O₃ (454.70). Pharm: Antineoplastic; anti-HIV. Source: HUA ZHONG WU WEI ZI *Schisandra sphenanthera*. Ref: 2523.

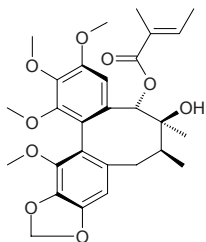
**19488 Schisanterpene B**

C₂₇H₄₀O₄ (428.62). Colorless needles, mp 193~194°C, [α]_D²⁰ = +20°C (c = 0.1, CHCl₃). Pharm: Cytotoxic (hmn hepatocellular carcinoma HepG2, IC₅₀ = 61.32 μmol/L, control Camptothecin, IC₅₀ = 1.23 μmol/L; hmn acute promyelocytic leukemia HL-60, IC₅₀ = 58.07 μmol/L, Camptothecin, IC₅₀ = 1.35 μmol/L; hepatocellular carcinoma Bel7402, IC₅₀ = 72.93 μmol/L, Camptothecin, IC₅₀ = 1.02 μmol/L). Source: HAN RUI WU WEI ZI *Schisandra propinqua* (stem: yield = 0.0001% dw). Ref: 2097.

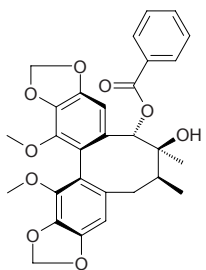


19489 Schisantherin C

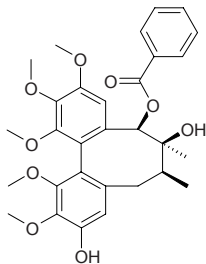
[58546-55-7] $C_{28}H_{34}O_9$ (514.58). **Pharm:** Antihepatotoxin (mus, orl, 50mg/(kg·d), 15 days, reduces activity of SGPT). **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 658.

**19490 Schisantherin D**

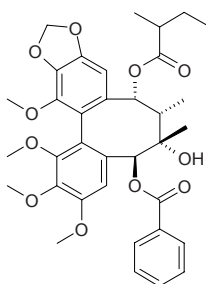
Schisantherin D [64917-82-4] $C_{29}H_{28}O_9$ (520.54). **Pharm:** Antihepatotoxin (mus, orl, 50mg/(kg·d), 15 days, reduces activity of SGPT). **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 658.

**19491 Schisantherin E**

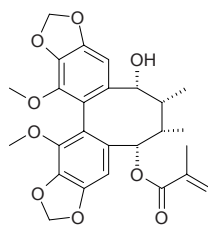
[64917-83-5] $C_{30}H_{34}O_9$ (538.60). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**19492 Schisantherin J**

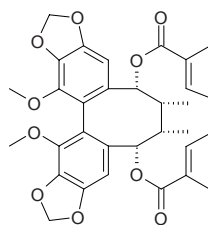
[135432-28-9] $C_{35}H_{40}O_{11}$ (636.70). **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. **Ref:** 2436.

**19493 Schisantherin L**

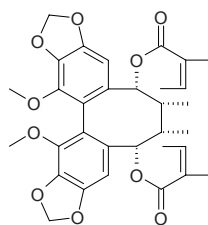
[149990-51-2] $C_{27}H_{30}O_9$ (498.53). **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 2436.

**19494 Schisantherin M**

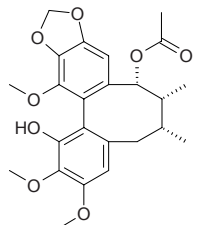
[149990-52-3] $C_{32}H_{36}O_{10}$ (580.64). **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 2436.

**19495 Schisantherin N**

[150132-86-8] $C_{32}H_{36}O_{10}$ (580.64). **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 2436.

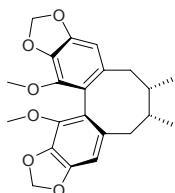
**19496 Schisantherin O**

[150132-87-9] $C_{24}H_{28}O_8$ (444.49). **Source:** LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. **Ref:** 2436.

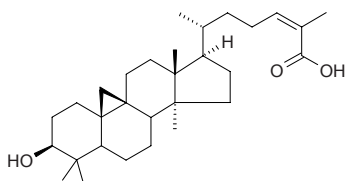


19497 Schizandrin C

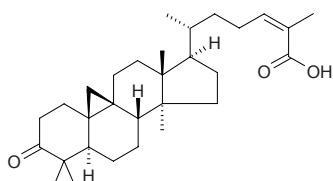
Schisandrin C; Wuweizisu C [61301-33-5] $C_{22}H_{24}O_6$ (384.43). $[\alpha]_D^{23} = -57.4^\circ$ ($c = 0.85$, $CHCl_3$). **Pharm:** Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = $(2.6 \pm 0.2)\%$ (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%)^[4644]; antihepatotoxin (mus, hepatotoxin induced by CCl_4 or thioacetamide, 100mg/kg orl, lowers SGPT); NFAT transcription inhibitor ($IC_{50} = (7.54 \pm 0.22)\mu\text{mol/L}$, control Cyclosporin A, $IC_{50} = (1.20 \pm 0.29)\text{nmol/L}$)^[5343]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], HONG HUA WU WEI ZI *Schisandra rubriflora*, HUA ZHONG WU WEI ZI *Schisandra sphenanthera* (dried ripe fruit: content scope of 2 origins = 0.08%~0.12%, mean content = 0.10%^[5508]), NEI NAN WU WEI ZI *Kadsura interior* (stem)^[4644], WU WEI ZI *Schisandra chinensis* (dried ripe fruit: content scope of 6 origins = 0.20%~1.32%, mean content = 0.60%^[5508]). **Ref:** 2, 39, 658, 4644, 5343, 5508.

**19498 Schizandrollic acid**

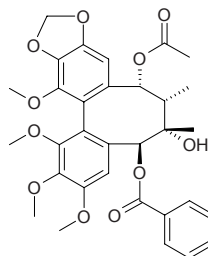
$C_{30}H_{48}O_3$ (456.72). **Pharm:** Antineoplastic; anti-HIV. **Source:** HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 2523.

**19499 Schizandronic acid**

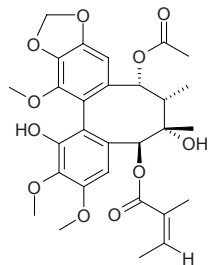
Schizandronic acid; Ganwuweizic acid [55511-14-3] $C_{30}H_{46}O_3$ (454.70). **Pharm:** Antineoplastic^[2523]; anti-HIV^[2523]. **Source:** CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], NEI FENG XIAO WU WEI ZI *Schisandra nigra*, XIAO HUA WU WEI ZI *Schisandra micrantha* (bustem and leaf). **Ref:** 2436, 2523, 4389.

**19500 Schizanrin F**

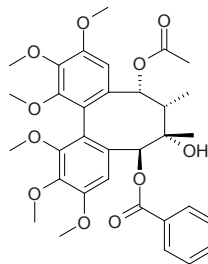
$C_{32}H_{34}O_{11}$ (594.62). White solid, mp 141~143°C. **Pharm:** Antihepatitis inactive (anti-HBsAg, 100μg/mL, InRt < 25%, inactive; anti-HBeAg, 100μg/mL, InRt < 25%, inactive). **Source:** *Kadsura matsudai* (stem). **Ref:** 4397.

**19501 Schizanrin G**

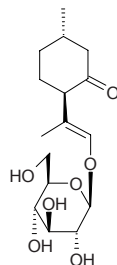
$C_{29}H_{34}O_{11}$ (558.58). White needles, mp 179~182°C. **Pharm:** Antihepatitis inactive (anti-HBsAg, 100μg/mL, InRt < 25%, inactive; anti-HBeAg, 100μg/mL, InRt < 25%, inactive). **Source:** *Kadsura matsudai* (stem). **Ref:** 4397.

**19502 Schizanrin H**

$C_{33}H_{38}O_{11}$ (610.66). White needles, mp 193~195°C. **Pharm:** Antihepatitis inactive (anti-HBsAg, 100μg/mL, InRt < 25%, inactive; anti-HBeAg, 100μg/mL, InRt < 25%, inactive). **Source:** *Kadsura matsudai* (stem). **Ref:** 4397.

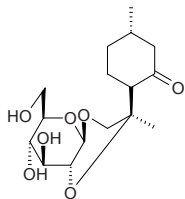
**19503 Schizonepetoside A**

[78887-75-9] $C_{16}H_{26}O_7$ (330.38). **Source:** JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. **Ref:** 2.

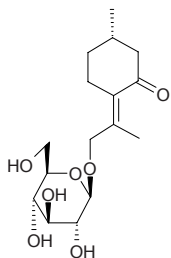


19504 Schizonepetoside B

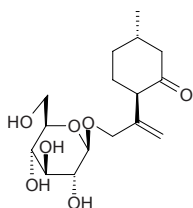
[78897-60-6] C₁₆H₂₆O₇ (330.38). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2, 660.

**19505 Schizonepetoside C**

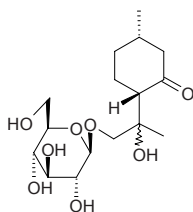
[105351-69-7] C₁₆H₂₆O₇ (330.38). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2, 1521.

**19506 Schizonepetoside D**

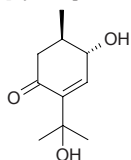
C₁₆H₂₆O₇ (330.38). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 660.

**19507 Schizonepetoside E**

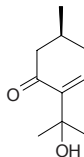
C₁₆H₂₈O₈ (348.40). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 660.

**19508 Schizonodiol**

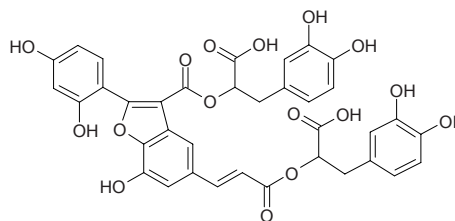
[121693-13-8] C₁₀H₁₆O₃ (184.24). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2.

**19509 Schizonol**

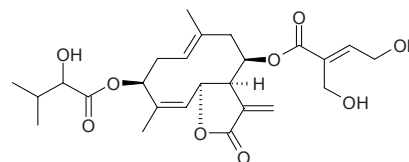
C₁₀H₁₆O₂ (168.24). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 2.

**19510 Schizotenuin A**

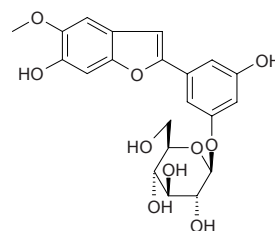
C₃₆H₂₈O₁₆ (716.61). Source: JING JIE *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*]. Ref: 660.

**19511 Schkuhrin II**

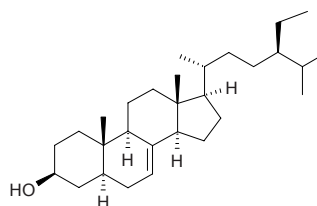
[70434-09-2] C₂₅H₃₄O₉ (478.54). Pharm: Antibacterial; cytotoxic (KB, 5.5µg/mL); insect antifeedant. Source: SHI KU JU *Schkuhria pinnata*. Ref: 5, 658.

**19512 Schoenoside**

C₂₁H₂₂O₁₀ (434.40). Amorphous powder. [α]_D²¹ = -84.2° (c = 0.48, MeOH). Source: WEI JING BAI HE *Schoenocaulon officinale* (rhizome). Ref: 4210.

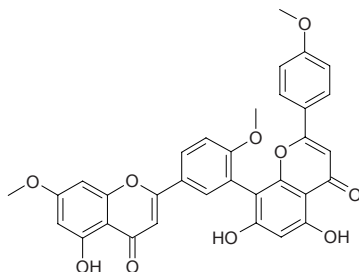
**19513 Schottenol**

[521-03-9] C₂₉H₅₀O (414.72). Pharm: Precursor to biosynthesis of ecdysone (*Drosophila pachea*). Source: family Cactaceae spp. Ref: 658.

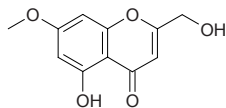


19514 Sciadopitysin

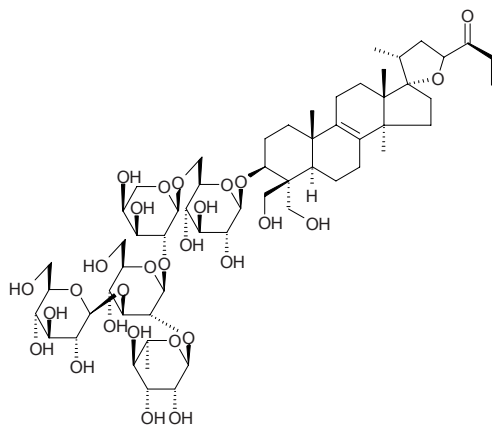
7,4',4'''-Tri-*O*-methyl amentoflavone [521-34-6] C₃₃H₂₄O₁₀ (580.55). mp 295–297°C. **Source:** BAI GUO YE *Ginkgo biloba* (in 1956 the compound was isolated from leaf of the plant)^[5505], SAN JIAN SHAN *Cephalotaxus fortunei*, YUN NAN FEI SHU *Torreya yunnanensis* (twig and leaf: yield = 0.00038%dw)^[4707], ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root), ZI SHAN *Taxus cuspidata*. **Ref:** 660, 4707, 5098, 5505.

**19515 Scikochromone A**

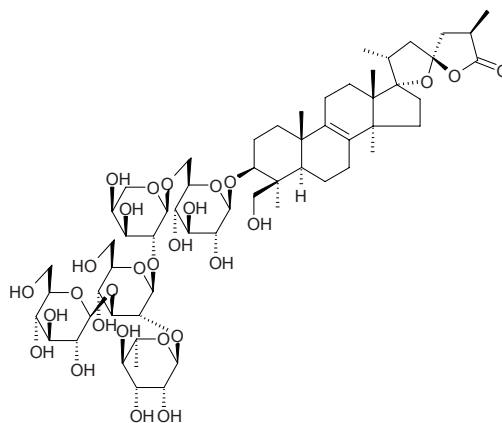
C₁₁H₁₀O₅ (222.20). **Pharm:** Cytotoxic (hmn peripheral blood T cells, dose = 5.0μg/mL, T cell survival rate = 90%); immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 5.0μg/mL, InRt = 63%). **Source:** HONG CHAI HU *Bupleurum scorzonerifolium* (root). **Ref:** 3498.

**19516 Scillanoside L₁**

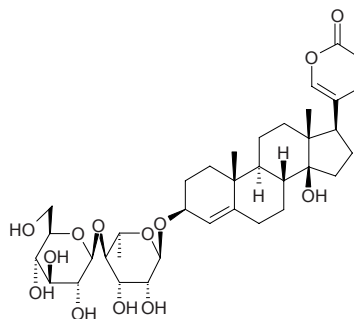
15-Deoxy-30-hydroxyeucosterol 3-*O*- α -L-rhamnopyranosyl-(1→2)-[(β -D-glucopyranosyl-(1→3))- β -D-glucopyranosyl-(1→2)- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranoside C₅₈H₉₄O₂₈ (1239.38). White amorphous powder, [α]_D²⁵ = -57.1° (c = 0.08, MeOH). **Pharm:** Cytotoxic (HT1080 ED₅₀ = (2.62±1.79)nmol/L; B16(F-10) ED₅₀ = (2.38±2.10)nmol/L; 3LL ED₅₀ = (4.07±1.05)nmol/L; MCF7 ED₅₀ = (7.96±4.83)nmol/L; PC3 ED₅₀ = (5.08±3.95)nmol/L; HT29 ED₅₀ = (6.56±5.21)nmol/L; LOX-IMVI ED₅₀ = (3.82±1.68)nmol/L; A549 ED₅₀ = (4.51±3.23)nmol/L; control adriamycin ED₅₀ = (0.09±0.03)nmol/L, (0.06±0.10)nmol/L, (0.09±0.03)nmol/L, (0.38±0.34)nmol/L, (0.83±0.18)nmol/L, (1.07±0.12)nmol/L, (0.38±0.33)nmol/L, (0.67±0.21)nmol/L, respectively). **Source:** MIAN ZAO ER *Scilla scilloides* (fresh bulb). **Ref:** 4225.

**19517 Scillanoside L₂**

(23S,25R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1→2)-*O*- β -D-glucopyranosyl-(1→3))-*O*- β -D-glucopyranosyl-(1→2)- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl]oxy]lanost-8-en-23,26-olide C₅₉H₉₄O₂₈ (1251.39). Amorphous solid, [α]_D²⁶ = -102.0° (c = 0.1, MeOH); white amorphous powder, [α]_D²⁵ = -34.7° (c = 0.08, MeOH). **Pharm:** Cytotoxic (HT1080 ED₅₀ = (2.34±0.11)nmol/L; B16(F-10) ED₅₀ = (5.27±2.71)nmol/L; 3LL ED₅₀ = (3.53±3.53)nmol/L; MCF7 ED₅₀ > 10)nmol/L; PC3 ED₅₀ = (4.82±3.52)nmol/L; HT29 ED₅₀ > 10)nmol/L; LOX-IMVI ED₅₀ = (4.51±1.82)nmol/L; A549 ED₅₀ = (5.60±2.99)nmol/L; control Adriamycin ED₅₀ = (0.09±0.03)nmol/L, (0.06±0.10)nmol/L, (0.09±0.03)nmol/L, (0.38±0.34)nmol/L, (0.83±0.18)nmol/L, (1.07±0.12)nmol/L, (0.38±0.33)nmol/L, (0.67±0.21)nmol/L, respectively)^[4225]; cytotoxic (Hmn oral squamous cell carcinoma cells HSC-2, IC₅₀ = 14μg/mL, control Etoposide, IC₅₀ = 24μg/mL)^[4308]. **Source:** MIAN ZAO ER *Scilla scilloides* (fresh bulb), XUE GUANG HUA *Chionodoxa luciliae* (fresh bulb). **Ref:** 4225, 4308.

**19518 Scillaren A**

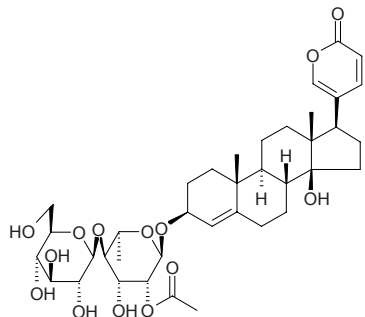
C₃₆H₅₂O₁₃ (692.81). Very bitter, two crystals type. acicular crystals(methanol), mp 184–186°C; tiny leaflike crystals (methanol), mp 208–211°C, [α]_D²³ = -71.9° (c = 1.011, methanol). **Pharm:** LD₅₀ (cat, iv) = 0.143mg/kg. **Source:** HAI CONG *Urginea maritima*. **Ref:** 661.



19519 Scillarenin 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-2'-*O*-acetyl- α -L-rhamnopyranoside

$C_{38}H_{54}O_{14}$ (734.85). Amorphous powder, $[\alpha]_D^{26} = -67.3^\circ$ ($c = 0.50$, MeOH).

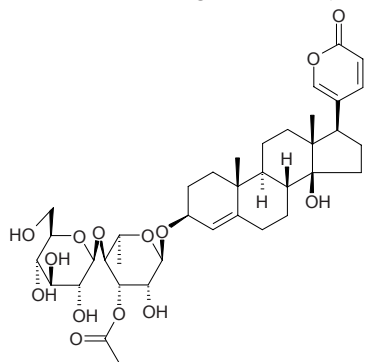
Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.



19520 Scillarenin 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-3'-*O*-acetyl- α -L-rhamnopyranoside

$C_{38}H_{54}O_{14}$ (734.85). Amorphous powder, $[\alpha]_D^{26} = -60.6^\circ$ ($c = 0.57$, MeOH).

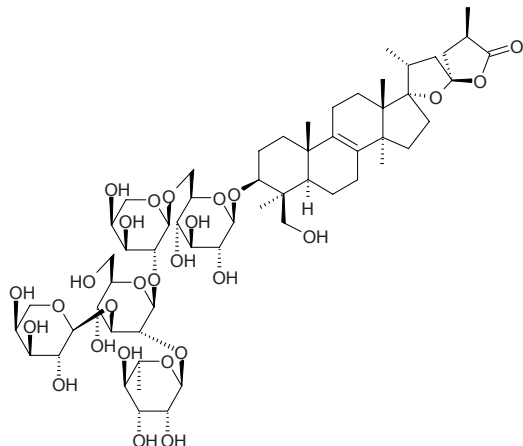
Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.



19521 Scillasaponin E

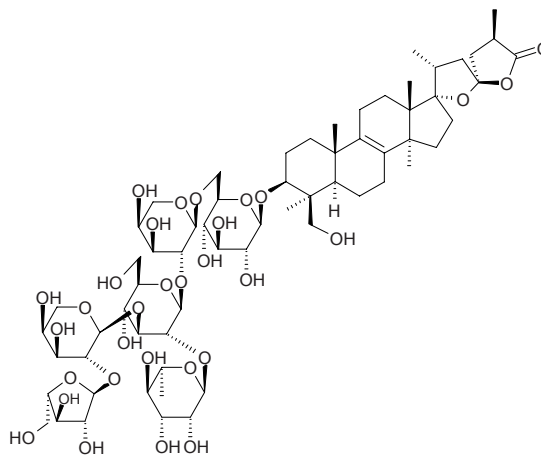
(23*S*,25*R*)-3 β -[(*O*- α -L-Arabinopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-29-hydroxylanost-8-en-23,26-olide $C_{58}H_{92}O_{27}$ (1221.36). Amorphous solid, $[\alpha]_D^{27} = 22.0^\circ$ ($c = 0.10$, MeOH). Pharm:

Cytotoxic (HSC-2 hmn oral squamous cell carcinoma cells, $IC_{50} = 6.3\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). Source: QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). Ref: 3495.



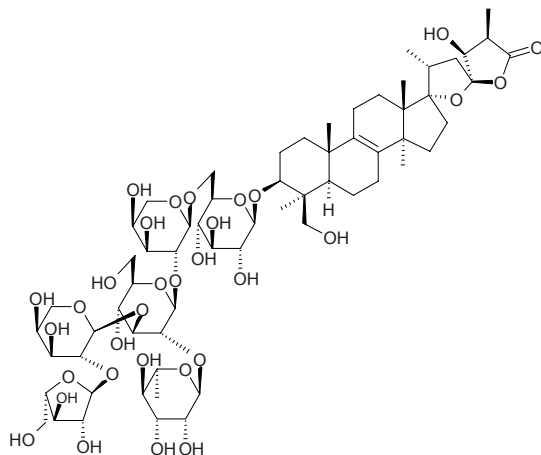
19522 Scillasaponin F

(23*S*,25*R*)-3 β -[(*O*- α -L-Arabinofuranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-29-hydroxylanost-8-en-23,26-olide $C_{63}H_{100}O_{31}$ (1353.48). Amorphous solid, $[\alpha]_D^{28} = 40.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HSC-2 hmn oral squamous cell carcinoma cells, $IC_{50} = 23\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). Source: QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). Ref: 3495.



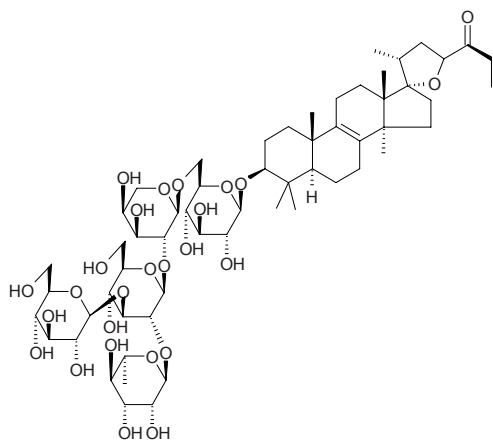
19523 Scillasaponin G

(23*S*,24*S*,25*R*)-3 β -[(*O*- α -L-Arabinofuranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-17 α ,23-epoxy-24,29-dihydroxylanost-8-en-23,26-olide $C_{63}H_{100}O_{32}$ (1369.48). Amorphous solid, $[\alpha]_D^{28} = 36.0^\circ$ ($c = 0.10$, MeOH). Pharm: Cytotoxic (HSC-2 hmn oral squamous cell carcinoma cells, $IC_{50} = 59\mu\text{g/mL}$, control Etoposide, $IC_{50} = 24\mu\text{g/mL}$). Source: QI YI PU TAO FENG XIN ZI *Muscari paradoxum* (bulb). Ref: 3495.

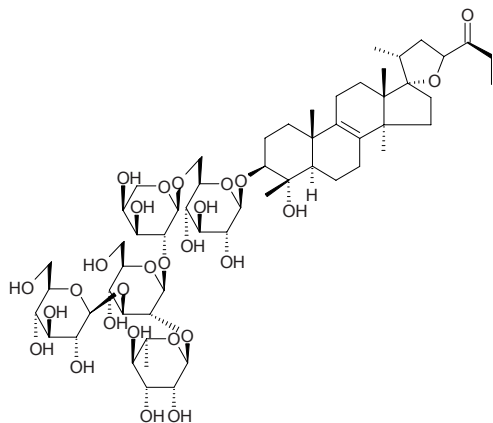


19524 Scillascilloside E₁

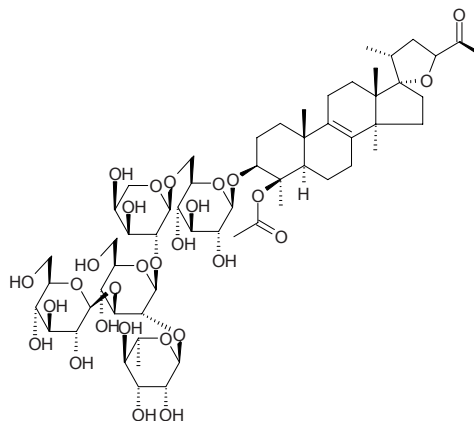
C₅₈H₉₄O₂₆ (1207.38). White amorphous powder (aq. MeOH), mp 221~223°C, $[\alpha]_D^{25} = -57.1^\circ$ ($c = 0.08$, MeOH). **Pharm:** Cytotoxic (HT1080 ED₅₀ = (1.66±0.04)nmol/L; B16(F-10) ED₅₀ = (2.66±0.21)nmol/L; 3LL ED₅₀ = (2.59±0.49)nmol/L; MCF7 ED₅₀ = (3.06±2.35)nmol/L; PC3 ED₅₀ = (1.53±0.28)nmol/L; HT29 ED₅₀ = (3.00±2.76)nmol/L; LOX-IMVI ED₅₀ = (2.44±0.43)nmol/L; A549 ED₅₀ = (1.98±1.80)nmol/L; control Adriamycin ED₅₀ = (0.09±0.03)nmol/L, (0.06±0.10)nmol/L, (0.09±0.03)nmol/L, (0.38±0.34)nmol/L, (0.83±0.18)nmol/L, (1.07±0.12)nmol/L, (0.38±0.33)nmol/L, (0.67±0.21)nmol/L, respectively); antineoplastic (*in vivo*, apparently increased the life span of mouse bearing Sarcoma 180 tumor cell, 3mg/kg, T/C = 239%). **Source:** MIAN ZAO ER *Scilla scilloides* (fresh bulb). **Ref:** 4225.

**19525 Scillascilloside E₂**

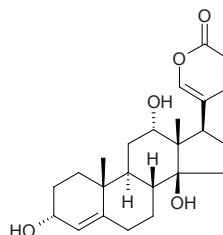
C₅₇H₉₂O₂₇ (1209.35). **Pharm:** Cytotoxic (HT1080 ED₅₀ = (2.30±0.04)nmol/L; B16(F-10) ED₅₀ = (7.06±4.07)nmol/L; 3LL ED₅₀ = (3.83±3.98)nmol/L; MCF7 ED₅₀ = (4.80±1.72)nmol/L; PC3 ED₅₀ = (3.95±0.43)nmol/L; HT29 ED₅₀ = (3.23±3.09)nmol/L; LOX-IMVI ED₅₀ = (3.70±4.32)nmol/L; A549 ED₅₀ = (3.54±0.74)nmol/L; control Adriamycin ED₅₀ = (0.09±0.03)nmol/L, (0.06±0.10)nmol/L, (0.09±0.03)nmol/L, (0.38±0.34)nmol/L, (0.83±0.18)nmol/L, (1.07±0.12)nmol/L, (0.38±0.33)nmol/L, (0.67±0.21)nmol/L, respectively). **Source:** MIAN ZAO ER *Scilla scilloides* (fresh bulb). **Ref:** 4225.

**19526 Scillascilloside E₃**

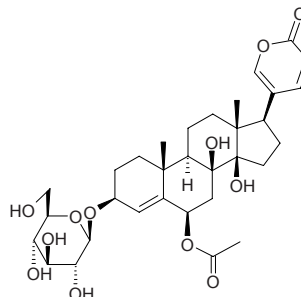
C₅₉H₉₄O₂₈ (1251.39). **Pharm:** Cytotoxic (HT1080 ED₅₀ = (1.69±1.65)nmol/L; B16(F-10) ED₅₀ = (3.82±1.79)nmol/L; 3LL ED₅₀ = (2.61±0.26)nmol/L; MCF7 ED₅₀ = (4.34±2.46)nmol/L; PC3 ED₅₀ = (2.33±0.95)nmol/L; HT29 ED₅₀ = (5.96±2.73)nmol/L; LOX-IMVI ED₅₀ = (4.89±0.12)nmol/L; A549 ED₅₀ = (3.09±1.98)nmol/L; control Adriamycin ED₅₀ = (0.09±0.03)nmol/L, (0.06±0.10)nmol/L, (0.09±0.03)nmol/L, (0.38±0.34)nmol/L, (0.83±0.18)nmol/L, (1.07±0.12)nmol/L, (0.38±0.33)nmol/L, (0.67±0.21)nmol/L, respectively). **Source:** MIAN ZAO ER *Scilla scilloides* (fresh bulb). **Ref:** 4225.

**19527 3- α ,12 α -Scilliphaeosidin**

C₂₄H₃₂O₅ (400.52). Amorphous powder, $[\alpha]_D^{26} = +110.3^\circ$ ($c = 1.07$, MeOH). **Source:** HAI CONG *Urginea maritima* (bulb). **Ref:** 3513.

**19528 Scilliroside**

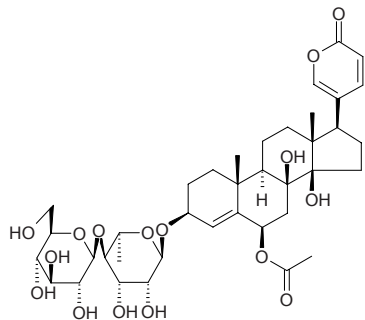
C₃₂H₄₄O₁₂ (620.76). **Pharm:** Rodenticide; LD₅₀ (male rat, orl) = 0.7mg/kg. **Source:** HAI CONG *Urginea maritima*. **Ref:** 658.



19529 Scillirosidin 3-O-β-D-glucopyranosyl-(1→4)-α-L-rhamnopyranoside

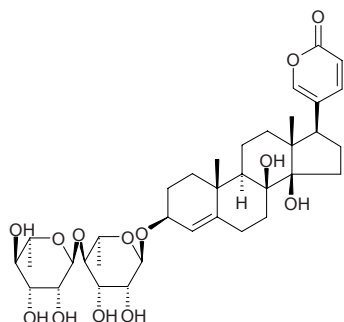
$C_{38}H_{54}O_{16}$ (766.84). Amorphous powder, $[\alpha]_D^{26} = -71.1^\circ$ ($c = 1.0$, MeOH).

Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

**19530 Scillirubrosidin 3-O-α-L-rhamnopyranosyl-(1→4)-α-L-rhamnopyranoside**

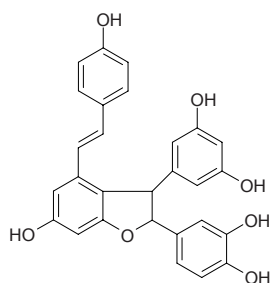
$C_{36}H_{52}O_{13}$ (692.81). Amorphous powder, $[\alpha]_D^{26} = -94.5^\circ$ ($c = 2.5$, MeOH).

Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

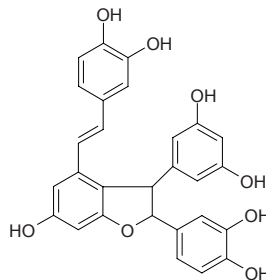
**19531 Scirpusin A**

[69297-51-4] $C_{28}H_{22}O_7$ (470.48). Pharm: Antioxidant (superoxide anion scavenger, $IC_{50} = (4.68 \pm 0.14) \mu\text{mol/L}$, control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$). Source: MAO CI JIN JI ER *Caragana tibetica* (stem).

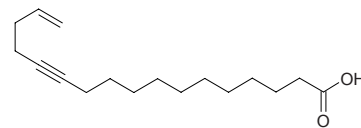
Ref: 4514.

**19532 Scirpusin B**

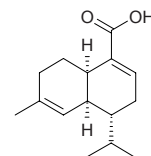
[69297-49-0] $C_{28}H_{22}O_8$ (486.48). Pharm: Antioxidant (superoxide anion scavenger, $IC_{50} = (2.83 \pm 0.03) \mu\text{mol/L}$, control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$). Source: MAO CI JIN JI ER *Caragana tibetica* (stem). Ref: 4514.

**19533 Scleropyric acid**

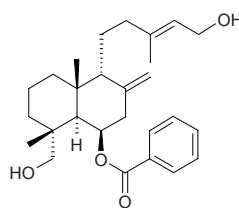
$C_{17}H_{28}O_2$ (264.41). Colorless sticky solid. Pharm: Antitubercular (*Mycobacterium tuberculosis* H₃₇Ra, MIC = 25 μg/mL, control Rifampicin, MIC = 0.004 μg/mL, Isoniazid, MIC = 0.06 μg/mL, Kanamycin sulfate, MIC = 2.5 μg/mL); anti-plasmodial (parasite *Plasmodium falciparum* K1 multidrug-resistant strain, $IC_{50} = 7.2 \mu\text{g/mL}$). Source: YING HE *Scleropyrum wallichianum* (twig). Ref: 4520.

**19534 Sclerosporin**

[66419-03-2] $C_{15}H_{22}O_2$ (234.34). Pharm: Induces formation of spore (mycelium in fungi, under illumination, 0.001 μg/mL). Source: *Sclerotinia fruticola*. Ref: 658.

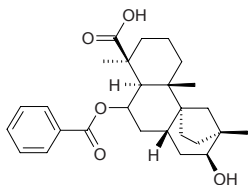
**19535 Scopadiol**

$C_{27}H_{38}O_4$ (426.6). Pharm: Cytotoxic (*in vitro*, SCL, $ED_{50} = 22.8 \mu\text{mol/L}$; SCL-6, $ED_{50} = 12.2 \mu\text{mol/L}$; SCL-376, $ED_{50} = 8.9 \mu\text{mol/L}$; SCL-9, $ED_{50} = 12.2 \mu\text{mol/L}$; Kato3, $ED_{50} = 9.7 \mu\text{mol/L}$; NuGc-4, $ED_{50} = 16.6 \mu\text{mol/L}$; control Vinblastine Sulfate: SCL, $ED_{50} = 5.9 \mu\text{mol/L}$; SCL-6, $ED_{50} = 6.1 \mu\text{mol/L}$; SCL-376, $ED_{50} = 5.3 \mu\text{mol/L}$; SCL-9, $ED_{50} = 5.3 \mu\text{mol/L}$; Kato3, $ED_{50} = 6.1 \mu\text{mol/L}$; NUGC-4, $ED_{50} = 5.3 \mu\text{mol/L}$). Source: YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.0185% dw). Ref: 4703.

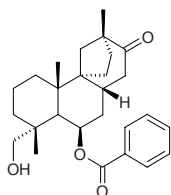


19536 Scopadulcic acid C

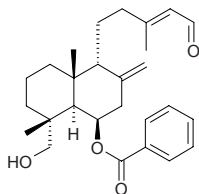
$C_{27}H_{36}O_5$ (440.58). Amorphous powder, $[\alpha]_D^{25} = -21.7^\circ$ ($c = 0.23$, $CHCl_3$). **Pharm:** Cytotoxic (MTT assay, KB cells, $IC_{50} = 50\mu g/mL$); NO production inhibitor (murine macrophages LPS/IFN γ -induced, $IC_{50} = 900\mu g/mL$, Note: inorganic free radical NO is produced by the oxidation of L-arginine by NO synthase and its overproduction can stimulate tumor growth and metastasis by promoting the migratory, invasive, and angiogenic potentials of tumor cells); multidrug resistance protein (MRP) inhibitor ($IC_{50} = 20\mu g/mL$). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00023%dw). **Ref:** 2098.

**19537 Scopadulciol**

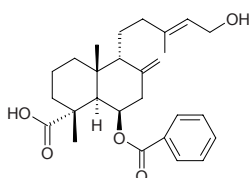
Dulcinol [136565-26-9] $C_{27}H_{36}O_4$ (424.58). Colorless amorphous powder, $[\alpha]_D^{25} = -2.3^\circ$ ($c = 0.5$, chloroform). **Pharm:** Cytotoxic (*in vitro*, SCL, $ED_{50} = 22\mu mol/L$; SCL-6, $ED_{50} = 32.8\mu mol/L$; SCL-37'6, $ED_{50} = 24.4\mu mol/L$; SCL-9, $ED_{50} = 37.7\mu mol/L$; Kato3, $ED_{50} = 35.5\mu mol/L$; NuGc-4, $ED_{50} = 33.3\mu mol/L$; control Vinblastine Sulfate: SCL, $ED_{50} = 5.9\mu mol/L$; SCL-6, $ED_{50} = 6.1\mu mol/L$; SCL-37'6, $ED_{50} = 5.3\mu mol/L$; SCL-9, $ED_{50} = 5.3\mu mol/L$; Kato3, $ED_{50} = 6.1\mu mol/L$; NUGC-4, $ED_{50} = 5.3\mu mol/L$)^[4703]; inhibits replication of HSV-1; H^+ , K^+ -ATPase inhibitor (pig, $10\mu mol/L$, InRt = 21%, $100\mu mol/L$, InRt = 45%, inhibits secretion and ulcer). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.0154%dw)^[4703]. **Ref:** 950, 1068, 1125, 4703.

**19538 Scopanolal**

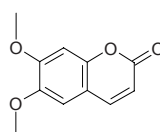
$C_{27}H_{36}O_4$ (424.59). Gum, $[\alpha]_D^{25} = -7.1^\circ$ ($c = 0.48$, $CHCl_3$). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.00077%dw). **Ref:** 4703.

**19539 Scoparic acid A**

[116425-30-0] $C_{27}H_{36}O_5$ (440.58). Colorless amorphous powder, $[\alpha]_D = -38.3^\circ$ (chloroform). **Pharm:** Ileal smooth muscle relaxant (gpg, *in vitro*, $IC_{50} = 32\mu mol/L$); β -glucuronidase inhibitor (ox liver, $IC_{50} = 6.8\mu mol/L$). **Source:** YE GAN CAO *Scoparia dulcis*. **Ref:** 975.

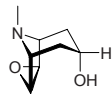
**19540 Scoparone**

6,7-Dimethoxycoumarin; Aesculetin dimethylether [120-08-1] $C_{11}H_{10}O_4$ (206.20). Needles (H_2O), mp $114^\circ C$, mp $144-145^\circ C$. **Pharm:** Analgesic (hot plate model and acetic acid-induced writhing model); antiasthmatic (for asthmatic bronchitis, effective rate = 83%); anti-inflammatory (swollen foot model caused by carrageenan); choleric (anesthetic rat and dog, effective component in Virgate Wormwood, *Artemisia scoparia* HUANG HAO); coronary vasodilator; vasodilator ($1-100\mu mol/L$, relaxation of rat aortic rings arterenol precontracted with in a concentration-dependent manner, in presence of endothelium $EC_{50} = (2.49 \pm 0.13)\mu mol/L$, in absence of endothelium $EC_{50} = (52 \pm 4)\mu mol/L$)^[5368]; diuretic (dog); estrogenic activity (rat); antihypertensive (dog, iv, $10mg/kg$, blood pressure reduces by 56%, action maintains 160min); increases cerebral blood flow; inhibits calcium activation and release (blood vessel smooth muscle); antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = $500mol$ ratio/32 pmol TPA, EBV-EA-positive cells = $(45.3 \pm 1.5)\%$ (viability >80%), β -Carotene, EBV-EA-positive cells = $(34.3 \pm 1.1)\%$ (viability >80), Curcumin, EBV-EA-positive cells = $(22.8 \pm 1.8)\%$ (viability >80%); $IC_{50} = 457mol$ ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400mol$ ratio/32 pmol TPA, Curcumin $IC_{50} = 341mol$ ratio/32 pmol TPA)^[5048]; platelet aggregation inhibitor ($50\mu mol/L$, InRt = 31%; $100\mu mol/L$, InRt = 64%)^[5171]; cytotoxic (KB, $ED_{50} > 25\mu g/mL$, control Doxorubicin, $ED_{50} = 0.12\mu g/mL$; Hep3B, $ED_{50} = 7.5\mu g/mL$, Doxorubicin, $ED_{50} = 0.14\mu g/mL$; Colon205, $ED_{50} > 25\mu g/mL$, Doxorubicin, $ED_{50} = 0.10\mu g/mL$; HeLa, $ED_{50} > 25\mu g/mL$, Doxorubicin, $ED_{50} = 0.11\mu g/mL$)^[4369]; LD_{50} (mus, orl) = $940mg/kg$; **Source:** BEI MEI E ZHANG QIU *Liriodendron tulipifera*, CI HUA JIAO *Zanthoxylum acanthopodium*, CONG MU *Aralia chinensis*, DIE QIAO SHI HU *Dendrobium aurantiacum* var. *denneanum* (stem: content = 0.0032%)^[5508], DUAN BANG SHI HU *Dendrobium capillipes* (stem: content = 0.0085%)^[5508], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GUANG JING QIAN CAO *Rubia wallichiana* (stem), HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (aerial parts: content = 0.46%)^[5501], HUANG HUA HAO *Artemisia annua*, JIA LIAN QIAO *Duranta repens* (whole herb), JU HUA SHI HU *Dendrobium thyrsiflorum*, KU RUO LONG DAN *Gentiana kuroo*, LIAN QIAO *Forsythia suspensa*, LONG YAN DU HUO *Aralia fargesii*, MI HUA SHI HU *Dendrobium densiflorum* (stem: content = 0.068%)^[5508], MU CHAI HU *Bupleurum frutescens*, MU⁽⁴⁾ JU *Aegle marmelos*, QING JIAO *Zanthoxylum schinifolium*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RU DI JIN NIU *Zanthoxylum nitidum*, TAI WAN FU RONG *Hibiscus taiwanensis*, YE HUA JIAO YE *Zanthoxylum simulans*, YIN CHEN HAO *Artemisia capillaris* (aerial parts: content scope = 2.0%~2.6%)^[5501], *Cedrelopsis grevei* (trunk bark), *Citrus medica* var. *etrog*, *Citrus sulcata*, *Citrus tamurana*, occurs in many plants. **Ref:** 2, 4, 6, 571, 642, 658, 660, 1521, 2529, 4179, 4369, 4502, 5171, 5048, 5368, 5501, 5508.



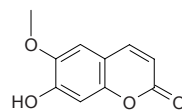
19541 Scopine

[498-45-3] C₈H₁₃NO₂ (155.20). mp 76°C. Source: SAI LANG DANG *Anisodius luridus*. Ref: 6.

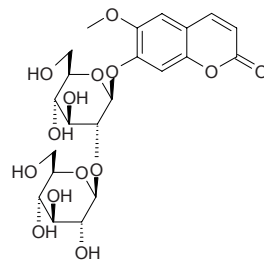
**19542 Scopoletin**

6-Methoxy-7-hydroxycoumarin; Chrysatroic acid; Baogongteng B [92-61-5] C₁₀H₈O₄ (192.17). Needles or prisms (EtOH), mp 204°C; 207~208°C. Pharm: Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.11µg/mL)^[4369]; antineoplastic (KB *in vitro*, ED₅₀ = 100µg/mL, mus lymphocyte leukemia *in vivo*); antibacterial; antifungal; anti-inflammatory; antispasmodic (gpg ileum and trachea); antitussive (dispels phlegm, reduces viscosity of phlegm and neutrophil in phlegm); germination inhibitor (shoot of pea); stimulates germination (*Striga asiatica*); used in treatment of rheumatism and neuralgia (one of effective components in *Erycibe obtusifolia* DING GONG TENG); antioxidant (DPPH scavenger, EC₅₀ > 33µg/mL, 33µg/mL InRt = 34%, control Ascorbic acid, EC₅₀ = 1.6µg/mL = 9.1µmol/L)^[4154]; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100µmol/L, InRt = (1.9±3.4%)^[4304]); antileishmanial (*Leishmania donovani* promastigotes, IC₅₀ = 374µmol/L, SI = 0.35; control Pentamidine, IC₅₀ = 0.40µmol/L, SI = 0.42; amastigotes, IC₅₀ > 90µmol/L, control Pentostam, IC₅₀ = 9.75µg/mL)^[5127]; antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, IC₅₀ > 30µmol/L, control Pentamidine, IC₅₀ = 0.00034µmol/L)^[5127]; cytotoxic (KB cells, IC₅₀ = 130.2µmol/L, control Pentamidine, IC₅₀ = 0.17µmol/L)^[5127]; cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA, EBV-EA-positive cells = (53.3±2.0)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); IC₅₀ = 510mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400mol ratio/32 pmol TPA, Curcumin IC₅₀ = 341mol ratio/32 pmol TPA)^[5048]; platelet aggregation inhibitor (50µmol/L, InRt = 5%; 100µmol/L, InRt = 21%)^[5171]; antioxidant inactive (*in vitro*, rat liver microsomes lipid peroxidation)^[3088]; MAO inhibitor (IC₅₀ = 19.4µg/mL)^[3088]; LD₅₀ (mus, ip) = 0.85g/kg, (mus, orl) = 1.39g/kg. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], BEI FANG GOU QI GEN PI *Lycium chinense* var. *potaninii* (root cortex: content = 0.00076%)^[5508], BEI SHA SHEN *Glehnia littoralis* (underground part), BIAN XU *Polygonum aviculare*, DANG GUI *Angelica sinensis*, DI JIN CAO *Euphorbia humifusa*, DIAN QIE *Atropa belladonna*, DIAN QIN *Sinodielsia yunnanensis* (root), DING GONG TENG *Erycibe obtusifolia*, DONG LANG DANG *Scopolia japonica*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DUAN ROU MAO DA JI *Euphorbia pubescens*, DUO BIAN XIAO GUAN HUA *Coronilla varia*, FU SHOU CAO *Adonis amurensis*, GOU QI GEN PI *Lycium chinense* (root cortex: content = 0.0019%)^[5508], GOU QI ZI *Lycium chinense*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), GUANG YE DING GONG TENG *Erycibe schmidtii*, HAI SHI *Diospyros maritima*, HONG NAN

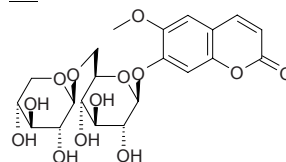
PI *Machilus thunbergii*, HU LU BA *Trigonella foenum-graecum*, HUA GOU TENG *Uncaria sinensis*, HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], HUANG HUA BAI JIANG *Patrinia scabiosaeifolia*, HUANG HUA HAO *Artemisia annua*, HUANG HUA REN *Sida acuta*, JIAN YE CEN *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb), LONG YAN DU HUO *Aralia fargesii*, MA TI YE *Caltha palustris*, MAN SHAN HONG *Rhododendron dauricum*, MAO GUO QI *Acer nikoense* (stem cortex), MI HUA SHI HU *Dendrobium densiflorum* (stem), MU JIN HUA *Hibiscus syriacus*^[3088], NAN CHUAN GUAN CHUN HUA *Microtoena prainiana* (stem: yield = 0.00007%dw)^[4752], NING XIA GOU QI GEN PI *Lycium barbarum* (root cortex: content = 0.00095%)^[5508], NING XIA GOU QI ZI *Lycium barbarum*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), SANG BAI PI *Morus alba* (root cortex: content scope of 10 origins = 0.0020%~0.0173%, mean content = 0.0100%)^[5508], SANG YE *Morus alba*, SI GE MENG XUAN HAU *Convolvulus scammonia*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00016%dw)^[4722], TIAN QIE ZI *Solanum indicum* (root)^[3087], TU MAO DONG QING *Ilex pubescens* var. *glaber*, XIAO YUN MU *Micromelum integerrimum*, XUAN FU HUA *Inula britannica*, YE HEI YING *Prunus serotina*, YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, ZHAI YE BAN FENG HE *Pterospermum lanceaeifolium*, ZHAO SHAN BAI *Rhododendron micranthum*, *Citrus medica* var. *etrog*, *Guarea rhopalocarpa* (leaf), occurs in many plants. Ref: 2, 4, 11, 415, 571, 585, 588, 658, 660, 1424, 1493, 1494, 1495, 2529, 3087, 3088, 4154, 4304, 4305, 4369, 4502, 4527, 4722, 4752, 5038, 5048, 5127, 5171, 5384, 5501, 5508.

**19543 Scopoletin 7-O-β-D-sophoroside**

C₂₂H₂₈O₁₄ (516.46). Off-white amorphous powder. Source: *Viburnum tinus* (leaf). Ref: 5339.

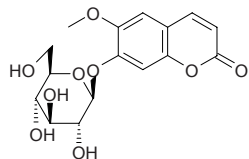
**19544 Scopoletin β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside**

C₂₁H₂₆O₁₃ (486.43). Colorless needles (MeOH), mp 243~245°C, [α]_D²³ = -148° (c = 0.5, H₂O). Source: CANG ZHU *Atractylodes lancea* (rhizome). Ref: 4384.

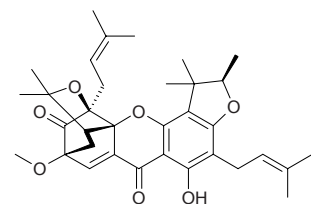


19545 Scopolin

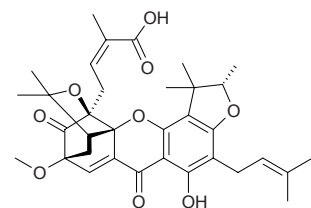
[531-44-2] $C_{16}H_{18}O_9$ (354.32). mp 219°C. **Pharm:** Anti-inflammatory; used in treatment of rheumatism and neuralgia (one of the effective components in DING GONG TENG). **Source:** DING GONG TENG *Erycibe obtusifolia*, DONG LANG DANG *Scopolia japonica*, GUANG YE DING GONG TENG *Erycibe schmidtii*, HUANG HUA HAO *Artemisia annua*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], PI ZHEN QI SHU *Rhus lanceolata*, SANG YE *Morus alba* (leaf: yield = 0.0003%), XIANG RI KUI JING SUI *Helianthus annuus*, XIANG RI KUI YE *Helianthus annuus*, XIANG RI KUI ZI *Helianthus annuus*, YAN CAO *Nicotiana tabacum*, *Hedera* sp., *Swertia* sp., *Anthemis* sp., *Artemisia* sp., *Celtis* sp. **Ref:** 6, 11, 658, 3507, 5501.

**19546 Scortechinone A**

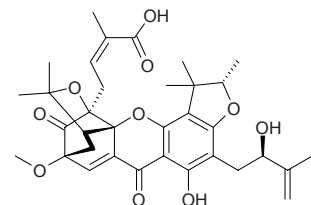
$C_{34}H_{42}O_7$ (652.71). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 128 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC = 128 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19547 Scortechinone B**

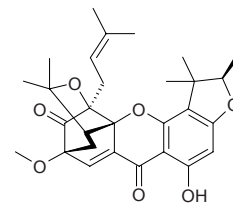
$C_{34}H_{40}O_9$ (592.69). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 8 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC = 2 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19548 Scortechinone C**

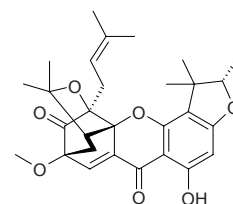
$C_{34}H_{40}O_{10}$ (608.69). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 32 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC = 32 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19549 Scortechinone D**

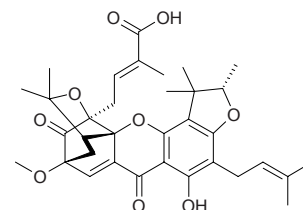
$C_{29}H_{34}O_7$ (494.59). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 256 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC > 256 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19550 Scortechinone E**

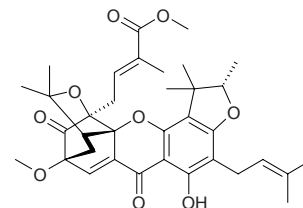
$C_{29}H_{34}O_7$ (494.59). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 256 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC > 256 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19551 Scortechinone F**

$C_{34}H_{40}O_9$ (592.69). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 16 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC = 4 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

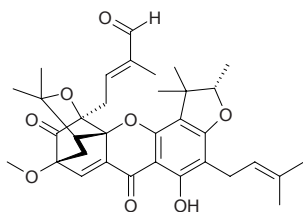
**19552 Scortechinone G**

$C_{35}H_{42}O_9$ (606.72). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 64 µg/mL, control Vancomycin, MIC = 1 µg/mL; *Staphylococcus aureus* SK1, MIC > 64 µg/mL, Vancomycin, MIC = 1 µg/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

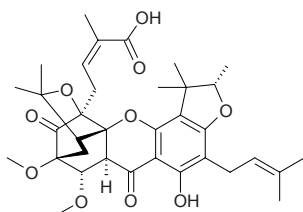


19553 Scortechinone H

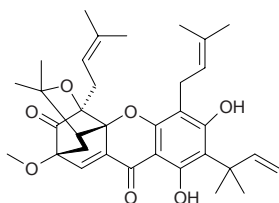
$C_{34}H_{40}O_8$ (576.69). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 64 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 4 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19554 Scortechinone I**

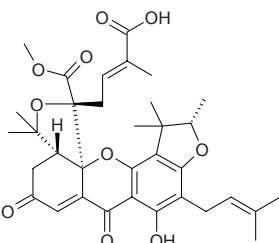
$C_{35}H_{44}O_{10}$ (624.73). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 8 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 8 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19555 Scortechinone J**

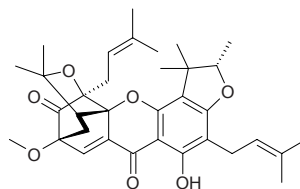
$C_{34}H_{42}O_7$ (562.71). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 32 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 8 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19556 Scortechinone K**

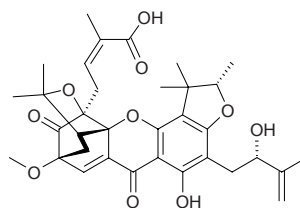
$C_{34}H_{40}O_{10}$ (608.59). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 128 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 128 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19557 Scortechinone L**

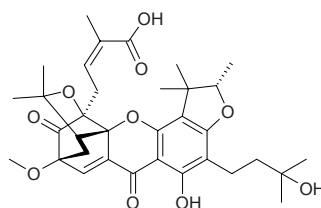
$C_{34}H_{42}O_7$ (562.71). Yellow gum, $[\alpha]_D^{29} = -176^\circ$ ($c = 0.017$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 64 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC > 64 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19558 Scortechinone M**

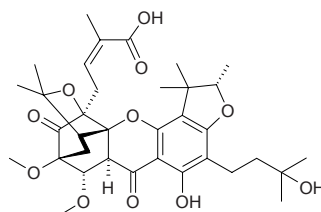
$C_{34}H_{40}O_{10}$ (608.69). Yellow gum, $[\alpha]_D^{29} = -353^\circ$ ($c = 0.017$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 32 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 32 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19559 Scortechinone N**

$C_{34}H_{42}O_{10}$ (610.71). Yellow gum, $[\alpha]_D^{29} = -263^\circ$ ($c = 0.019$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 32 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC = 32 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

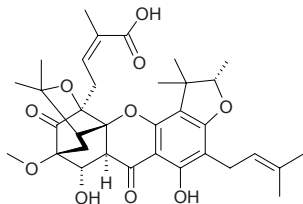
**19560 Scortechinone O**

$C_{35}H_{46}O_{11}$ (642.75). Pale yellow gum, $[\alpha]_D^{29} = +77^\circ$ ($c = 0.013$, MeOH). **Pharm:** Antibacterial (*Staphylococcus aureus* ATCC25923, MIC > 128 μ g/mL, control Vancomycin, MIC = 1 μ g/mL; *Staphylococcus aureus* SK1, MIC > 128 μ g/mL, Vancomycin, MIC = 1 μ g/mL). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

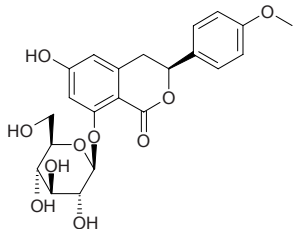


19561 Scortechinone P

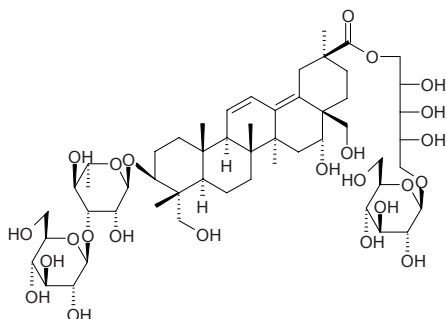
$C_{34}H_{42}O_{10}$ (610.71). Pale yellow gum, $[\alpha]_D^{29} = +83^\circ$ ($c = 0.012$, MeOH).
Pharm: Antibacterial (*Staphylococcus aureus* ATCC25923, MIC = 32 $\mu\text{g/mL}$, control Vancomycin, MIC = 1 $\mu\text{g/mL}$; *Staphylococcus aureus* SK1, MIC = 16 $\mu\text{g/mL}$, Vancomycin, MIC = 1 $\mu\text{g/mL}$). **Source:** *Garcinia scortechinii* (stem cortex). **Ref:** 5058.

**19562 Scorzoeticoside I**

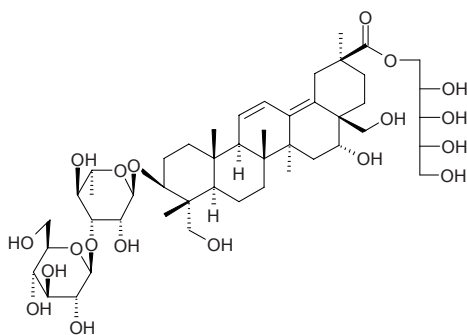
$C_{22}H_{24}O_{10}$ (448.43). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = (59.15 \pm 7.38)$ $\mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = (2.49 \pm 0.32)$ $\mu\text{g/mL}$, Caffeic acid, $IC_{50} = (1.78 \pm 0.03)$ $\mu\text{g/mL}$, Chlorogenic acid, $IC_{50} = (1.28 \pm 0.38)$ $\mu\text{g/mL}$). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**19563 Scorzoneroside A**

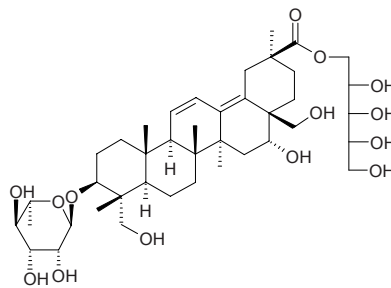
$C_{53}H_{86}O_{24}$ (1107.26). **Source:** HONG CHAI HU *Bupleurum scorzoniferolium*. **Ref:** 2247.

**19564 Scorzoneroside B**

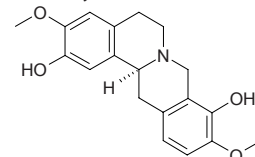
$C_{47}H_{76}O_{19}$ (945.12). **Source:** HONG CHAI HU *Bupleurum scorzoniferolium*. **Ref:** 2247.

**19565 Scorzoneroside C**

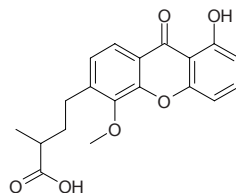
$C_{41}H_{66}O_{14}$ (782.97). **Source:** HONG CHAI HU *Bupleurum scorzoniferolium*. **Ref:** 2247.

**19566 Scoulerine**

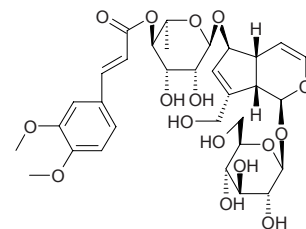
(*S*)-5,8,13,13a-Tetrahydro-3,10-dimethoxy-6*H*-dibenzo[*a,g*]quinolizine-2,9-diol [6451-73-6] $C_{19}H_{21}NO_4$ (327.38). mp (+) 197°C, (-) 204°C. **Source:** HE BAO MU DAN GEN *Dicentra spectabilis*, JU HUA HUANG LIAN *Corydalis pallida*, YA PIAN *Papaver somniferum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*], ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 6.

**19567 Scriblitifolic acid**

$C_{19}H_{18}O_6$ (342.35). mp 163–164°C, mp 164–167°C (petrol- $CHCl_3$). **Source:** TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). **Ref:** 3937.

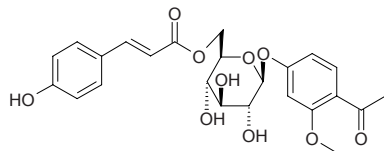
**19568 Scrolepidoside**

6-*O*-[4'-*O*-*trans*-(3,4-Dimethoxycinnamoyl)- α -*L*-rhamnopyranosyl]aucubin $C_{32}H_{42}O_{16}$ (682.68). Amorphous powder, $[\alpha]_D^{22} = -140^\circ$ ($c = 0.23$, MeOH). **Pharm:** Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} = 33.3$ $\mu\text{g/mL}$, control Melarsoprol, $IC_{50} = 0.0033$ $\mu\text{g/mL}$; *Trypanosoma cruzi*, $IC_{50} > 90$ $\mu\text{g/mL}$, control Benznidazole, $IC_{50} = 0.70$ $\mu\text{g/mL}$); antileishmanial (*Leishmania donovani*, $IC_{50} = 6.1$ $\mu\text{g/mL}$, control Miltefosine, $IC_{50} = 0.32$ $\mu\text{g/mL}$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 50$ $\mu\text{g/mL}$, control Artemisinin, $IC_{50} = 0.002$ $\mu\text{g/mL}$); cytotoxic (L6 cells, $IC_{50} > 90$ $\mu\text{g/mL}$, control Podophyllotoxin, $IC_{50} = 0.0075$ $\mu\text{g/mL}$). **Source:** LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). **Ref:** 5251.

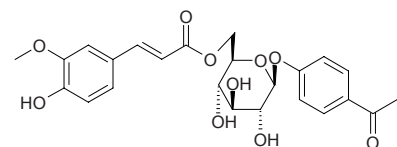


19569 Scrophuloside A

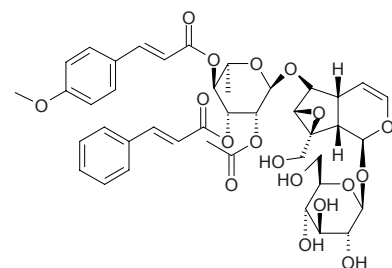
$C_{24}H_{26}O_{10}$ (474.47). Colorless amorphous powder, $[\alpha]_D^{24} = -29.5^\circ$ ($c = 0.88$, MeOH). **Source:** *Neopicrorhiza scrophulariiflora* (rhizome: yield = 0.0059%dw). **Ref:** 1584.

**19570 Scrophuloside B**

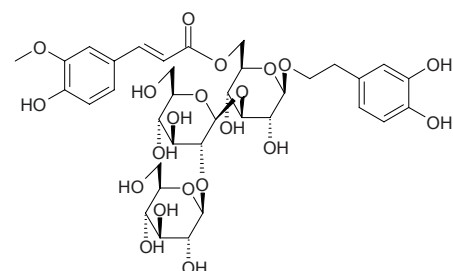
$C_{24}H_{26}O_{10}$ (474.47). Colorless amorphous powder, $[\alpha]_D^{24} = -36.0^\circ$ ($c = 0.50$, MeOH). **Source:** *Neopicrorhiza scrophulariiflora* (rhizome: yield = 0.0022%dw). **Ref:** 1584.

**19571 Scrophuloside B_a**

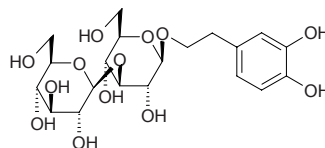
6-*O*-(2''-*O*-Acetyl-3''-*O*-cinnamoyl-4''-*O*-*p*-methoxycinnamoyl- α -*L*-rhamnopyranosyl)catalpol $C_{42}H_{48}O_{18}$ (840.84). Yellowish powder, $[\alpha]_D^{25} = -31.8^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (MCF7, $IC_{50} > 100\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (1.5 \pm 0.2)\mu\text{mol/L}$; K562, $IC_{50} = (44.6 \pm 6.4)\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.07 \pm 0.01)\mu\text{mol/L}$; Bowes, $IC_{50} = (90.2 \pm 7.7)\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.45 \pm 0.01)\mu\text{mol/L}$; T24S, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (5.8 \pm 0.6)\mu\text{mol/L}$; A549, $IC_{50} > 100\mu\text{mol/L}$, Adriamycin, $IC_{50} = (15.8 \pm 6.7)\mu\text{mol/L}$). **Source:** XUAN SHEN *Scrophularia ningpoensis*. **Ref:** 5288.

**19572 Scroside A**

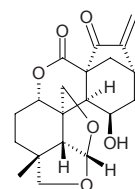
$C_{36}H_{48}O_{21}$ (816.77). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 98.0\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 167.7\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$). **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4289.

**19573 Scroside D**

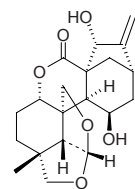
$C_{20}H_{30}O_{13}$ (478.45). White amorphous powder, mp 240–242°C (MeOH), $[\alpha]_D^{20} = -42.6^\circ$ ($c = 0.8$, MeOH). **Pharm:** Antioxidant (hydroxyl radical scavenger, $IC_{50} = 48.7\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 51.8\mu\text{mol/L}$, superoxide anion radical scavenger, $IC_{50} = 84.5\mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 86.2\mu\text{mol/L}$). **Source:** XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (root). **Ref:** 4289.

**19574 Sculponeatin A**

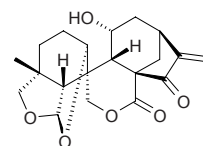
$C_{20}H_{24}O_6$ (360.41). Crystals, mp $> 300^\circ\text{C}$, $[\alpha]_D^{25} = -139^\circ$ ($c = 0.21$, pyridine). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus dysenteriae* and *Bacillus subtilis*, MIC = 62.5 $\mu\text{g/mL}$). **Source:** CAO SU *Phlomis umbrosa*, HUANG HUA XIANG CHA CAI *Isodon sculponeata* [Syn. *Rabdosia sculponeata*]. **Ref:** 4067.

**19575 Sculponeatin B**

[85287-60-1] $C_{20}H_{26}O_6$ (362.43). White crystals, mp 316–318°C, $[\alpha]_D^{27} = -161.4^\circ$ ($c = 0.5$, pyridine); mp 244–246°C, $[\alpha]_D^{25} = -109^\circ$ ($c = 0.14$, C_5H_5N). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus dysenteriae* and *Bacillus subtilis*, MIC = 62.5 $\mu\text{g/mL}$). **Source:** HUANG HUA XIANG CHA CAI *Isodon sculponeata* [Syn. *Rabdosia sculponeata*]. **Ref:** 661, 4067.

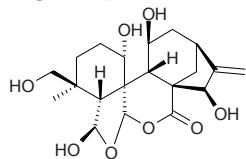
**19576 Sculponeatin C**

$C_{20}H_{24}O_6$ (360.41). mp 292–294°C, $[\alpha]_D^{24} = -163^\circ$ ($c = 0.21$, C_5H_5N). **Source:** HUANG HUA XIANG CHA CAI *Isodon sculponeata* [Syn. *Rabdosia sculponeata*]. **Ref:** 4067.

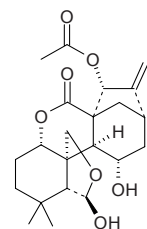


19577 Sculponeatin D

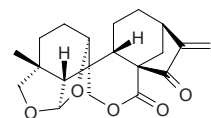
$C_{20}H_{28}O_8$ (396.44). mp 288~290.5°C, $[\alpha]_D^{19} = -100.0^\circ$ (MeOH). Source: HUANG HUA XIANG CHA CAI *Isodon sculponeata* [Syn. *Rabdosia sculponeata*]. Ref: 4067.

**19578 Sculponeatin E**

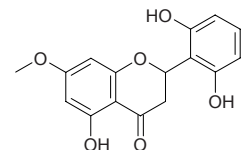
$C_{22}H_{30}O_7$ (406.48). White crystals mp 136~137°C, $[\alpha]_D^{14.5} = -145.56^\circ$ ($c = 0.564$). Source: HUANG HUA XIANG CHA CAI *Isodon sculponeata* [Syn. *Rabdosia sculponeata*]. Ref: 2113.

**19579 Sculponeatin J**

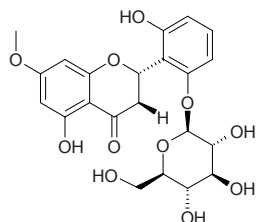
$C_{20}H_{24}O_5$ (344.41). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 0.83\mu\text{g/mL}$; control *cis*-Platin, $IC_{50} = 0.52\mu\text{g/mL}$). Source: LU SHI DONG LING CAO *Isodon rubescens* var. *lushiensis* (leaf: yield = 0.00022%dw). Ref: 4732.

**19580 Scuteamoenin**

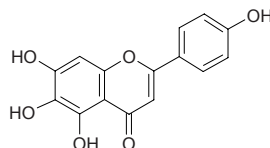
(2*S*)-2',5,6'-Trihydroxy-7-methoxyflavanone $C_{16}H_{14}O_6$ (302.29). Colorless acicular crystals, mp 250°C. Source: DIAN HUANG QIN *Scutellaria amoena*. Ref: 153.

**19581 Scuteamoenoside**

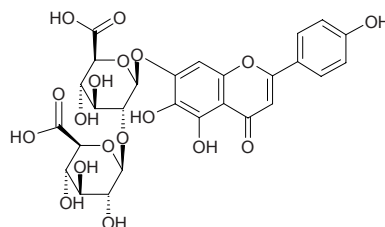
(2*S*)-2',5,6'-trihydroxy-7-methoxyflavanone-2'-*O*- β -*D*-glucopyranoside $C_{22}H_{24}O_{11}$ (464.43). Colorless crystalline powder, mp 236~239°C. Source: DIAN HUANG QIN *Scutellaria amoena*. Ref: 124.

**19582 Scutellarein**

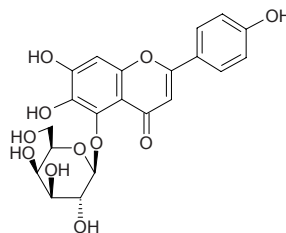
[529-53-3] $C_{15}H_{10}O_6$ (286.24). mp 350°C. Pharm: Inhibits formation of indole-3-acetic acid oxidase and ATP; larvacide (inhibits larva of *Heliothis zea* growth). Source: BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], CHOU MO LI *Clerodendron fragrans*, HAN XIN CAO *Scutellaria indica*, JIA LIAN QIAO YE *Duranta repens*, MU HU DIE *Oroxylum indicum*, MU HU DIE SHU PI *Oroxylum indicum*, ZI MEI SHU *Millingtonia hortensis*. Ref: 6, 658.

**19583 Scutellarein-7-O-digluconide**

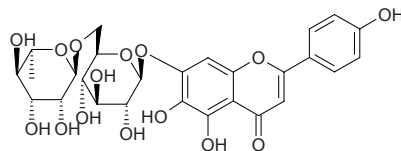
$C_{27}H_{26}O_{18}$ (638.50). Source: HUI HUI SU GENG *Perilla frutescens* var. *crispa*. Ref: 660.

**19584 Scutellarein-5-galactoside**

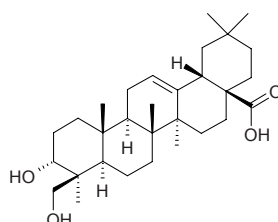
$C_{21}H_{20}O_{11}$ (448.39). Source: ZI MEI SHU *Millingtonia hortensis*. Ref: 6.

**19585 Scutellarein-7-rutinoside**

$C_{27}H_{30}O_{15}$ (488.71). Source: MU HU DIE SHU PI *Oroxylum indicum*. Ref: 6.

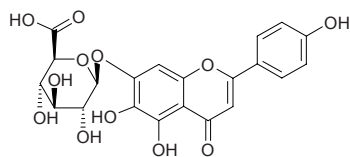
**19586 Scutellaric acid**

$C_{30}H_{48}O_4$ (472.71). White amorphous powder, mp 273~276°C, $[\alpha]_D^{23} = +34.6^\circ$ ($c = 0.85$, pyridine). Pharm: Quinone reductase inducer inactive (mouse Hepalc7 hepatoma cells, $CD > 10\mu\text{g/mL}$). Source: *Coussarea brevicaulis*. Ref: 3434.

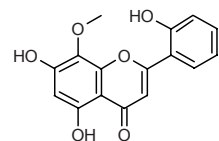


19587 Scutellarin

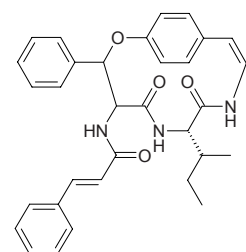
[27740-01-8] $C_{21}H_{18}O_{12}$ (462.37). mp > 300°C. **Pharm:** Improves permeability of BBB; increases cerebral blood flow; platelet aggregation inhibitor (induced by ADP); main component of breviscapin in *Erigeron breviscapus* DENG ZHAN XI XIN to cure post-palsy paralysis; reduces resistance of cerebral blood vessels; used in treatment of post-palsy paralysis (for 469 cases in clinic, effective rate = 89.3%); antioxidant (PC12 cells, against oxidative toxicity induced by glutamate: control, LDH released = (25.94±5.92)%; glutamate, LDH released = (76.26±7.01)%; 0.1μmol/L+Glu, LDH released = (58.98±9.20)%; 1.0μmol/L+Glu, LDH released = (52.23±7.74)%; 10μmol/L+Glu, LDH released = (42.27±3.84)%; Vitamin E 10μmol/L+Glu, LDH released = (55.70±8.84%)^[4972]; LD₅₀ (mus, iv) = 1314mg/kg. **Source:** BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], CHOU MO LI *Clerodendron fragrans*, DA CHE QIAN *Plantago major*, DENG ZHAN XI XIN *Erigeron breviscapus*, GAO CONG ZHEN ZHU MEI *Sorbaria arborea*, GAO HUANG QIN *Scutellaria altissima*, HUANG QIN *Scutellaria baicalensis*, HUANG QIN *Scutellaria baicalensis*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], MU HU DIE *Oroxylum indicum*, ZHEN ZHU MEI *Sorbaria sorbifolia*. **Ref:** 6, 658, 660, 4972, 5501.

**19588 Scutevulin**

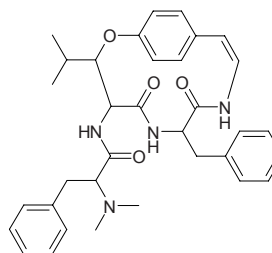
5,7,2'-Trihydroxy-8-methoxyflavone [80713-32-2] $C_{16}H_{12}O_6$ (300.27). **Pharm:** cAMP phosphodiesterase inhibitor (ox heart, IC₅₀ = 6μmol/L). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2, 1652.

**19589 Scutianene D**

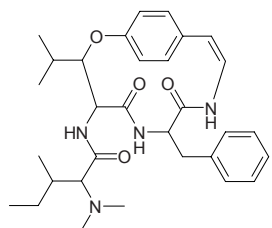
$C_{32}H_{33}N_3O_4$ (523.64). **Pharm:** Antibacterial inactive (gram-positive: *Staphylococcus aureus*, control Chloramphenicol, MIA = 0.7μg; *Staphylococcus epidermidis*, Chloramphenicol, MIA = 0.7μg; *Micrococcus luteus*, Chloramphenicol, MIA = 0.7μg; gram-negative: *Salmonella setubal*, Chloramphenicol, MIA = 0.7μg; *Escherichia coli*, Chloramphenicol, MIA = 0.5μg; *Klebsiella pneumoniae*, Chloramphenicol, MIA = 0.5μg); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100μg). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

**19590 Scutianine B**

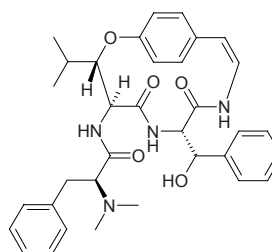
$C_{34}H_{40}N_4O_4$ (568.72). **Pharm:** Antibacterial (gram-negative: *Escherichia coli*, MIA = 6.25μg or 12.5μg, control Chloramphenicol, MIA = 0.5μg); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100μg). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

**19591 Scutianine C**

$C_{31}H_{42}N_4O_4$ (534.70). **Pharm:** Antibacterial inactive (gram-positive: *Staphylococcus aureus*, control Chloramphenicol, MIA = 0.7μg; *Staphylococcus epidermidis*, Chloramphenicol, MIA = 0.7μg; *Micrococcus luteus*, Chloramphenicol, MIA = 0.7μg; gram-negative: *Salmonella setubal*, Chloramphenicol, MIA = 0.7μg; *Escherichia coli*, Chloramphenicol, MIA = 0.5μg; *Klebsiella pneumoniae*, Chloramphenicol, MIA = 0.5μg); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100μg). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

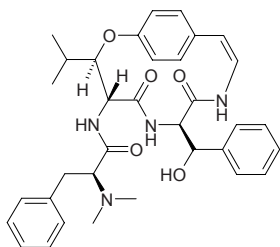
**19592 Scutianine D**

$C_{34}H_{40}N_4O_5$ (584.72). **Pharm:** Antibacterial (gram-positive: *Staphylococcus epidermidis*, MIA = 50.0μg, control Chloramphenicol, MIA = 0.7μg; *Micrococcus luteus*, MIA = 25.0μg, Chloramphenicol, MIA = 0.7μg; gram-negative: *Escherichia coli*, MIA = 50.0μg, Chloramphenicol, MIA = 0.5μg); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100μg). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

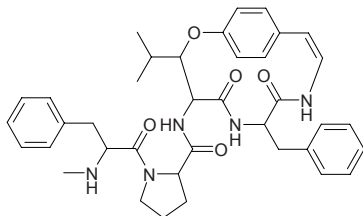


19593 Scutianine E

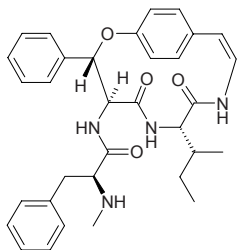
$C_{34}H_{40}N_4O_5$ (584.72). **Pharm:** Antibacterial (gram-positive: *Staphylococcus aureus*, MIA = 25.0 μ g, control Chloramphenicol, MIA = 0.7 μ g; *Staphylococcus epidermidis*, MIA = 6.25 μ g, Chloramphenicol, MIA = 0.7 μ g; *Micrococcus luteus*, MIA = 6.25 μ g, Chloramphenicol, MIA = 0.7 μ g; gram-negative: *Escherichia coli*, MIA = 6.25 μ g, Chloramphenicol, MIA = 0.5 μ g; *Klebsiella pneumoniae*, MIA = 12.5 μ g, Chloramphenicol, MIA = 0.5 μ g); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100 μ g). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

**19594 Scutianine F**

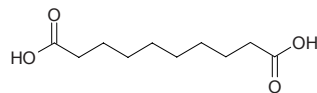
$C_{38}H_{45}N_5O_5$ (651.81). **Pharm:** Antibacterial inactive (gram-positive: *Staphylococcus aureus*, control Chloramphenicol, MIA = 0.7 μ g; *Staphylococcus epidermidis*, Chloramphenicol, MIA = 0.7 μ g; *Micrococcus luteus*, Chloramphenicol, MIA = 0.7 μ g; gram-negative: *Salmonella setubal*, Chloramphenicol, MIA = 0.7 μ g; *Escherichia coli*, Chloramphenicol, MIA = 0.5 μ g; *Klebsiella pneumoniae*, Chloramphenicol, MIA = 0.5 μ g); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100 μ g). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

**19595 Scutianine M**

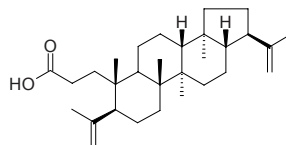
$C_{33}H_{38}N_4O_4$ (554.70). White powder, mp 257~259°C, $[\alpha]_D^{25} = +120^\circ$ ($c = 0.018$, $CHCl_3$). **Pharm:** Antibacterial inactive (gram-positive: *Staphylococcus aureus*, control Chloramphenicol, MIA = 0.7 μ g; *Staphylococcus epidermidis*, Chloramphenicol, MIA = 0.7 μ g; *Micrococcus luteus*, Chloramphenicol, MIA = 0.7 μ g; gram-negative: *Salmonella setubal*, Chloramphenicol, MIA = 0.7 μ g; *Escherichia coli*, Chloramphenicol, MIA = 0.5 μ g; *Klebsiella pneumoniae*, Chloramphenicol, MIA = 0.5 μ g); antifungal inactive (*Candida albicans* and *Saccharomyces cerevisiae*, 100 μ g). **Source:** HUANG YANG YE DUI CI TENG *Scutia buxifolia* (root cortex). **Ref:** 5323.

**19596 Sebacic acid**

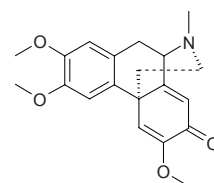
Decanedioic acid [111-20-6] $C_{10}H_{18}O_4$ (202.25). **Source:** BI MA ZI *Ricinus communis*, DANG GUI *Angelica sinensis*. **Ref:** 2.

**19597 Sebiferic acid**

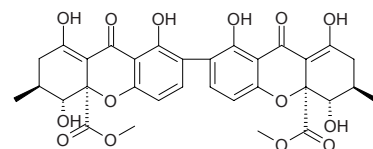
[52809-09-3] $C_{30}H_{48}O_2$ (440.72). mp 178~180°C. **Source:** WU JIU MU GEN PI *Sapium sebiferum*. **Ref:** 6.

**19598 (+)-Sebiferine**

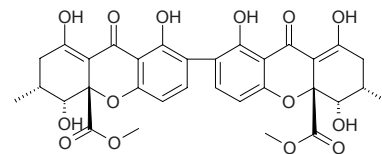
$C_{20}H_{23}NO_4$ (341.41). **Source:** *Stephania* sp. **Ref:** 3404.

**19599 Secalonic acid A**

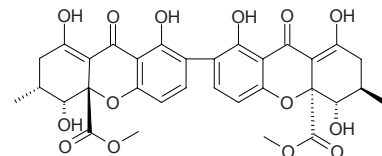
$C_{32}H_{30}O_{14}$ (638.59). mp 246~247°C (dec). **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6.

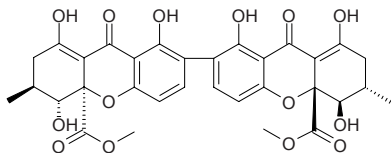
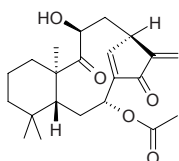
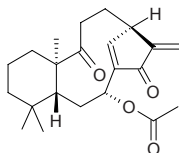
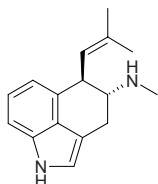
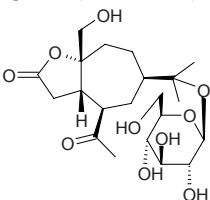
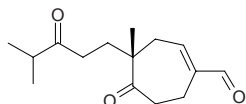
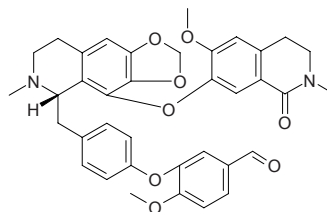
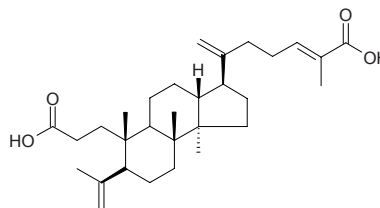
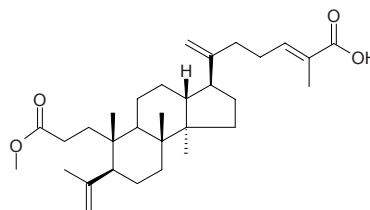
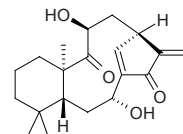
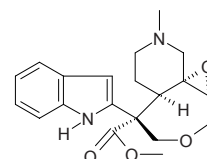
**19600 Secalonic acid B**

$C_{32}H_{30}O_{14}$ (638.59). mp 254~256°C (dec). **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6.

**19601 Secalonic acid C**

$C_{32}H_{30}O_{14}$ (638.59). mp 159~161°C. **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 6.

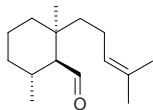


19602 Secalonic acid DC₃₂H₃₀O₁₄ (638.59). mp 253–255°C. Source: MAI JIAO *Claviceps purpurea*.Ref: 6.**19603 ent-8,9-Seco-7 α -acetoxy-11 β -hydroxykaura-(14),16-dien-9,15-dione**C₂₂H₃₀O₅ (374.48). Colorless oil, [α]_{589nm}²⁰ = 2°, [α]_{578nm}²⁴ = +3°, [α]_{546nm} = +6°,[α]_{435nm} = +50°, (c = 0.2, MeOH). Source: *Lepidolaena taylorii*. Ref: 1901.**19604 ent-8,9-Seco-7 α -acetoxykaura-8(14),16-dien-9,15-dione**C₂₂H₃₀O₄ (358.48). Colorless oil, [α]_{589nm}²⁰ = -72°, [α]_{577nm} = -82°,[α]_{546nm} = -98°, [α]_{435nm} = -173°, [α]_{405nm} = -111° (c = 0.2, CHCl₃).Source: *Lepidolaena taylorii*. Ref: 1901.**19605 6,7-Seco-agroclavine**C₁₆H₂₂N₂ (240.35). Source: MAI JIAO *Claviceps purpurea*. Ref: 660.**19606 (1S,5R,7R,10R)-Secoatractylolactone 11-O- β -D-glucopyranoside**C₂₁H₃₄O₁₀ (446.50). Amorphous powder, [α]_D²² = +36° (c = 1.3, MeOH).Source: CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310, 4348.**19607 Secocarotanal**C₁₅H₂₂O₃ (250.34). Source: MEI GUI HUA *Rosa rugosa*. Ref: 660.**19608 Secocepharantine**C₃₇H₃₆N₂O₈ (636.71). Source: TAI WAN QIAN JIN TENG *Stephania sasakii*.Ref: 660.**19609 (24E)-3,4-Secodammara-4(28),20,24-trien-3,26-dioic acid**C₃₀H₄₆O₄ (470.70). Source: CHI YANG *Alnus japonica*. Ref: 660.**19610 24(E)-3,4-Secodammara-4(28),20,24-trien-3,26-dioic acid-3-methylester**C₃₁H₄₈O₄ (484.73). Source: CHI YANG *Alnus japonica*. Ref: 660.**19611 ent-8,9-Seco-7 α ,11 β -dihydroxykaura-14(14),16-dien-9,15-dione**C₂₀H₂₈O₄ (332.44). Colorless oil, [α]_{589nm}¹⁹ = -3°, [α]_{577nm} = -2°, [α]_{546nm} =+1°, [α]_{435nm} = +53°, [α]_{405nm} = +165° (c = 0.2, CHCl₃). Source: *Lepidolaena taylorii*. Ref: 1901.**19612 6,7-Seco-19,20-epoxyangustilobine B**C₂₀H₂₄N₂O₄ (356.43). Amorphous solid, [α]_D²⁹ = +73.6° (c = 1.25, MeOH).Source: XIANG PI MU *Alstonia scholaris* (leaf). Ref: 2806.

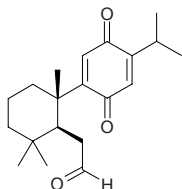
19613 (-)-6,7-Seco-eudesm-7(11)-en-6-ol

$C_{15}H_{26}O$ (222.36). Colorless oil. Source: *Tritomaria polita* (essential oil).

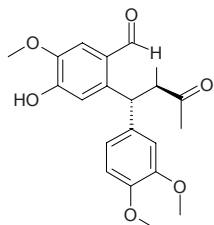
Ref: 3446.

**19614 7,8-Seco-para-ferruginone**

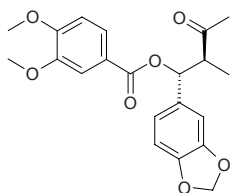
$C_{20}H_{28}O_3$ (316.44). Yellow needles, mp 151~152°C. Pharm: Antibacterial (*in vitro*, *Staphylococcus aureus*, MIC = 20 μ mol/L; *Micrococcus luteus*, MIC = 15 μ mol/L). Source: HONG GEN CAO *Salvia prionitis* (root: yield = 0.00030%dw). Ref: 4635.

**19615 7,8-Seco-holostylone A**

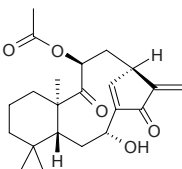
(7*S*,8*R*)-4-Hydroxy-3',4',5-trimethoxy-7,8-seco-2,7'-cycloignan-7,8-dione $C_{21}H_{24}O_6$ (372.42). Amorphous yellow solid, $[\alpha]_D^{25} = -181.8^\circ$ ($c = 0.44$, $CHCl_3$). Source: *Holostylis reniformis* (root). Ref: 3784.

**19616 7,8-Seco-holostylone B**

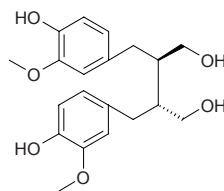
(7*R*,8*S*)-3,4-Dimethoxy-3',4'-methylenedioxy-7,8-seco-7,7'-epoxyignan-7,8-dione $C_{21}H_{22}O_7$ (386.41). Amorphous yellow solid, $[\alpha]_D^{25} = +37.0^\circ$ ($c = 0.13$, $CHCl_3$). Source: *Holostylis reniformis* (root). Ref: 3784.

**19617 ent-8,9-Seco-7a-hydroxy-11-acetoxykaura-8(14),16-dien-9,15-dione**

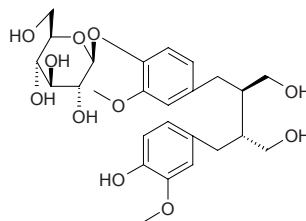
$C_{22}H_{30}O_5$ (374.48). Colorless oil, $[\alpha]_{589nm}^{20} = -31^\circ$, $[\alpha]_{577nm} = -42^\circ$, $[\alpha]_{546nm} = -54^\circ$, $[\alpha]_{435nm} = -131^\circ$, $[\alpha]_{405nm} = -126^\circ$ ($c = 0.2$, $CHCl_3$) Source: *Lepidolaena taylorii*. Ref: 1901.

**19618 (-)-Secoisolariciresinol**

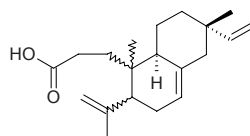
(8*R*,8'*R*)-(-)-Secoisolariciresinol $C_{20}H_{26}O_6$ (362.43). Pale yellow amorphous powder. Pharm: Antioxidant (DPPH scavenger, $EC_{50} = 7.7\mu$ g/mL = 21.3 μ mol/L, control Ascorbic acid, $EC_{50} = 1.6\mu$ g/mL = 9.1 μ mol/L)^[4154]; antioxidant (DPPH scavenger, $IC_{50} = 28.9\mu$ mol/L, control Caffeic acid, $IC_{50} = 25.5\mu$ mol/L)^[5407]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = -7.3%, 6.5%, 0.9%, -12.5%, respectively; control *L*-NMMA, 3 μ mol/L, 10 μ mol/L, 30 μ mol/L, 100 μ mol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; NO production inhibitor ($IC_{50} = 148\mu$ mol/L, control *L*-NMMA, $IC_{50} = 28.5\mu$ mol/L)^[5407]; β -hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (-2.8 \pm 5.3%)^[4347]; aldose reductase inhibitor ($IC_{50} > 100\mu$ mol/L, 100 μ mol/L InRt = 26%, control Epalrestat, $IC_{50} = 0.072\mu$ mol/L)^[4530]; cytotoxic (*in vitro*, 26-L5, $EC_{50} = 5.9\mu$ g/mL; HT1080, $EC_{50} = 60.2\mu$ g/mL; control 5-Fluorouracil, Colon26-L5, $EC_{50} = 0.29\mu$ g/mL; HT1080, $EC_{50} = 0.07\mu$ g/mL)^[4661]; estrogenic^[5408]. Source: BEI SHA SHEN *Glehnia littoralis* (underground part), CHU YE HUA JIAO *Zanthoxylum ailanthoides*, SHUI GUI JIAO YE *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancretium littoralis*], SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0054%dw)^[4691], YI YE TIE SHAN *Tsuga heterophylla* (sapwood), YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.607%dw), *Sarcomelicope megistophylla*. Ref: 660, 3965, 4154, 4347, 4530, 4661, 4691, 5407, 5408.

**19619 (-)-Secoisolariciresinol 4-O-β-D-glucopyranoside**

$C_{26}H_{36}O_{11}$ (524.57). Colorless amorphous solid, $[\alpha]_D = -182.1^\circ$ ($c = 0.05$, MeOH). Pharm: Antioxidant (DPPH scavenger, $EC_{50} = 21.0\mu$ g/mL = 40.0 μ mol/L, control Ascorbic acid, $EC_{50} = 1.6\mu$ g/mL = 9.1 μ mol/L). Source: BEI SHA SHEN *Glehnia littoralis* (underground part). Ref: 4154.

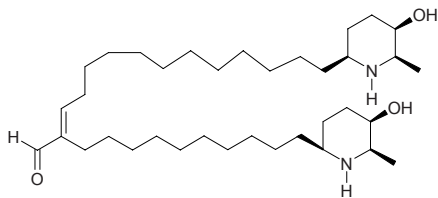
**19620 3,4-Secoisopi-mara-4(18),7,15-trien-3-oic acid**

$C_{20}H_{30}O_2$ (302.46). Pharm: Inhibits intestinal motility (mouse, *in vivo*)^[4964]. Source: ZHU HONG SHU WEI CAO *Salvia cinnabarina* (aerial parts). Ref: 4942, 4964.

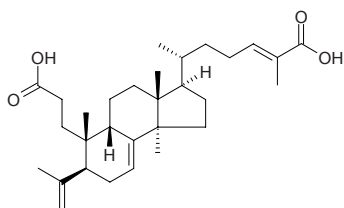


19621 Secojuliprosopinal

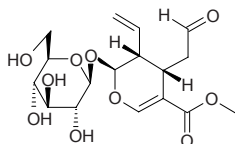
$C_{30}H_{68}N_2O_3$ (576.95). Colorless gum, $[\alpha]_D^{28} = +5.0^\circ$ ($c = 1.0$, MeOH). Source: MU DOU SHU *Prosopis juliflora* (leaf). Ref: 3778.

**19622 24(E)-3,4-Seco-9βH-lanosta-4(28),7,24-triene-3,26-dioic acid**

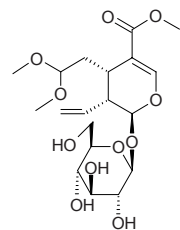
$C_{30}H_{46}O_4$ (470.70). White amorphous powder, mp 232~236 °C, $[\alpha]_D^{20} = -13.4^\circ$ ($c = 0.2$, EtOH). Pharm: Cytotoxic (weak activity: A549, $ED_{50} = 28.3\mu\text{g/mL}$; SK-OV-3, $ED_{50} = 20.9\mu\text{g/mL}$; SK-MEL-2, $ED_{50} = 29.9\mu\text{g/mL}$; HCT15, $ED_{50} = 30.4\mu\text{g/mL}$). Source: CHAO XIAN LENG SHAN *Abies koreana* (root cortex). Ref: 3854.

**19623 Secologanin**

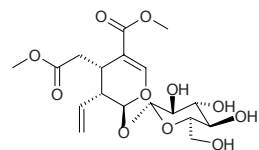
Loniceroside $C_{17}H_{24}O_{10}$ (388.37). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0013%dw)^[4723], SHUI CAI *Menyanthes trifoliata* (in 1968, the compound was isolated from the plant by Battersby et al.)^[5505]. Ref: 6, 4723, 5505.

**19624 Secologanin dimethyl acetal**

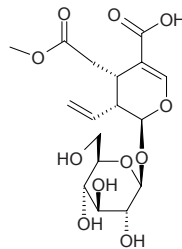
$C_{19}H_{30}O_{11}$ (434.44). Source: REN DONG TENG *Lonicera japonica*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00057%dw). Ref: 660, 4723.

**19625 Secologanoside dimethyl ester**

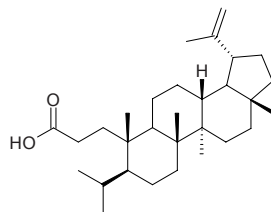
$C_{18}H_{26}O_{11}$ (418.4). Source: JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0078%dw). Ref: 4723.

**19626 Secologanoside 7-methyl ester**

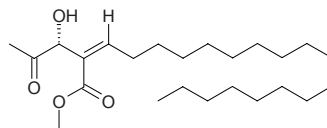
$C_{17}H_{24}O_{11}$ (404.37). Amorphous powder, $[\alpha]_D^{25} = -106.1^\circ$ ($c = 0.337$, MeOH). Source: BAO MA ZI *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (leaf), JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0059%dw). Ref: 4363.

**19627 3,4-Seco-20(29)-lupen-3-oic acid**

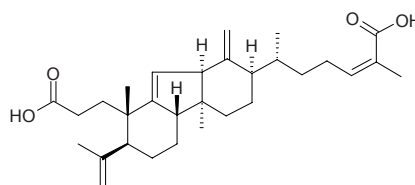
$C_{30}H_{50}O_2$ (442.73). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00094%dw). Ref: 4722.

**19628 Secomahubanolide**

(2Z)-2-[(1R)-1-Hydroxy-2-oxo-propyl]-icos-2-enoic acid methyl ester $C_{24}H_{44}O_4$ (396.62). Colorless oil, $[\alpha]_D^{25} = -11.16^\circ$ ($c = 0.029$, $CHCl_3$). Source: TAI WAN RUI FANG RUN NAN *Machilus zuihoensis* (stem wood). Ref: 5287.

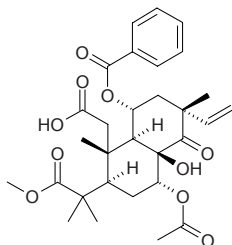
**19629 Seco-neokadsuranic acid A**

$C_{30}H_{44}O_4$ (468.68). Pharm: Antineoplastic^[2523]; anti-HIV^[2523]. Source: YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. Ref: 660, 2436, 2523.

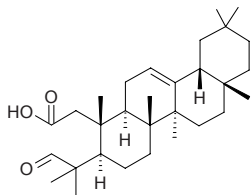


19630 Secoorthosiphol B

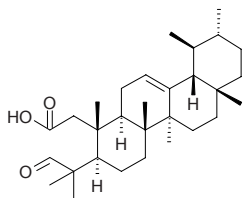
$C_{30}H_{38}O_{10}$ (558.63). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 Cells, $IC_{50} = 127 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0 \mu\text{mol/L}$; Polymixin B, $IC_{50} = 27.8 \mu\text{g/mL}$)^[4677]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00018%dw^[4677]; yield = 0.00094%dw^[4741]). **Ref:** 4677, 4741.

**19631 2,3-seco-3-Oxoolean-12-en-2-oic acid**

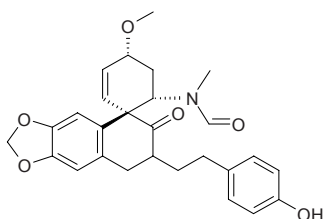
$C_{30}H_{48}O_3$ (456.72). Amorphous powder, $[\alpha]_D^{23} = +52.7^\circ$ ($c = 0.4$, CHCl_3). **Source:** HUANG LONG DAN *Gentiana lutea* (rhizome and root). **Ref:** 4307.

**19632 2,3-Seco-3-oxours-12-en-2-oic acid**

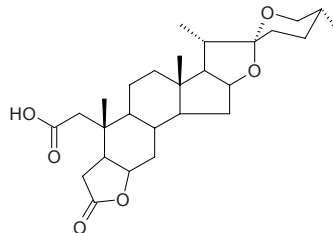
$C_{30}H_{48}O_3$ (456.72). Amorphous powder, $[\alpha]_D^{23} = +68.1^\circ$ ($c = 0.8$, CHCl_3). **Source:** HUANG LONG DAN *Gentiana lutea* (rhizome and root). **Ref:** 4307.

**19633 (-)-Secoplicamine**

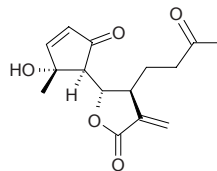
$C_{27}H_{29}NO_6$ (463.54). Amorphous solid, $[\alpha]_D = -16.9^\circ$ ($c = 0.142$, MeOH). **Source:** TU ER QI XUE HUA LIAN *Galanthus plicatus* ssp. *byzantinus*. **Ref:** 1872.

**19634 2,3-Seco-porrigenin**

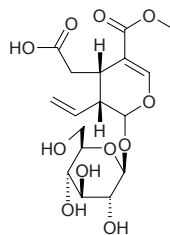
$C_{27}H_{40}O_6$ (460.62). **Pharm:** Cytotoxic (inhibits cancer cell proliferation *in vitro*). **Source:** JIU CONG *Allium porrum*. **Ref:** 2165.

**19635 Secotanapartholide A**

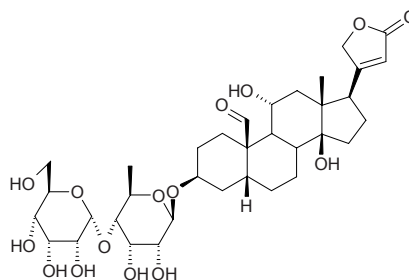
$C_{15}H_{18}O_5$ (278.31). **Source:** LIU JI NU *Artemisia anomala* (whole herb with flowers). **Ref:** 660.

**19636 Secoxyloganin**

[58822-47-2] $C_{17}H_{24}O_{11}$ (404.37). **Pharm:** Antitrypanosomal (trypomastigotes of *Trypanosoma cruzi*, *in vitro*, $IC_{50} = 74.2 \mu\text{g/mL}$, control Gentian violet, $IC_{50} = 7.5 \mu\text{g/mL}$)^[3439]. **Source:** JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.338%dw)^[4723], REN DONG TENG *Lonicera japonica*, *Calycophyllum spruceanum*. **Ref:** 660, 3439, 4723.

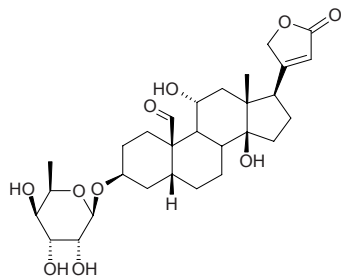
**19637 Securigenin-3β-O-[α-allosyl-(1→4)-β-6-deoxyalloside]**

$C_{35}H_{52}O_{15}$ (712.80). White-yellow powder, $[\alpha]_D^{24} = -28.7^\circ$ ($c = 2.2$, MeOH). **Pharm:** Cytotoxic (KB, $IC_{50} = (0.104 \pm 0.005) \mu\text{mol/L}$, control Podophyllotoxin, $IC_{50} = 0.014 \mu\text{mol/L}$). **Source:** GAO MEI YING BAN *Crossopetalum gaumeri* (root). **Ref:** 3969.

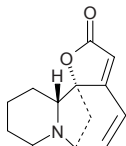


19638 Securigenin-3 β -O- β -6-deoxyguloside

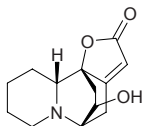
C₂₉H₄₂O₁₀ (550.65). White powder, $[\alpha]_D^{24} = -61.0^\circ$ ($c = 1.0$, MeOH). **Pharm:** Cytotoxic (KB, IC₅₀ = (0.164 \pm 0.015) μ mol/L, control Podophyllotoxin, IC₅₀ = 0.014 μ mol/L). **Source:** GAO MEI YING BAN *Crossopetalum gaumeri* (root). **Ref:** 3969.

**19639 Securinine**

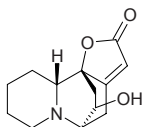
Securinan-11-one [5610-40-2] C₁₃H₁₅NO₂ (217.27). Light yellow crystals, mp 142~143°C, $[\alpha]_D^{20} = 1042.3^\circ$ (ethanol), easily soluble in chloroform, ethanol, slightly soluble in ether, acetone, water.^[5507] **Pharm:** Enhances myocardial contractility (anesthetic animal iv); increases blood pressure (anesthetic animal, iv); cholinesterase inhibitor; CNS stimulant; respiratory stimulant (anesthetic animal, iv); LD₅₀ (mus, iv) = 3.5mg/kg or 6.3mg/kg, (mus, ip) = 25mg/kg, (rat, ip) = 41mg/kg. **Source:** YI YE QIU *Securinega suffruticosa* (in 1956, isolated from the plant for the first time^[5507]), PAN ZHUANG YE XIA ZHU *Phyllanthus discoides*. **Ref:** 6, 658, 5507.

**19640 Securinol A**

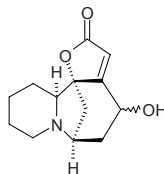
[5008-48-0] C₁₃H₁₇NO₃ (235.29). mp (+) 135~136°C. **Source:** YI YE QIU *Securinega suffruticosa*. **Ref:** 6, 1521.

**19641 Securinol B**

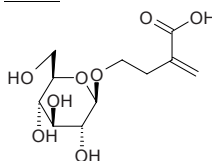
[30155-10-3] C₁₃H₁₇NO₃ (235.29). mp (+) 158~160°C. **Source:** YI YE QIU *Securinega suffruticosa*. **Ref:** 6, 1521.

**19642 Securinol C**

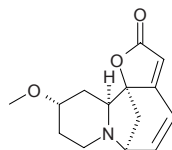
C₁₃H₁₇NO₃ (235.29). mp (-) 114~115°C. **Source:** YI YE QIU *Securinega suffruticosa*. **Ref:** 6.

**19643 Securiterpenoside**

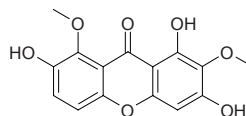
C₁₁H₁₈O₈ (278.26). White crystals, easily solving in methanol, mp 80~83°C. **Source:** CHAN YI TENG *Securidaca inappendiculata*. **Ref:** 2228.

**19644 Securitinine**

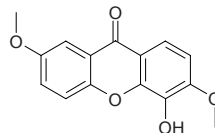
C₁₄H₁₇NO₃ (247.30). mp 129~130°C. **Source:** YI YE QIU *Securinega suffruticosa*. **Ref:** 6.

**19645 Securixanthone A**

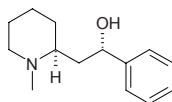
1,3,7-Trihydroxy-2,8-dimethoxyxanthone C₁₅H₁₂O₇ (304.26). Fine yellow needles (MeOH), mp 218°C. **Source:** CHAN YI TENG *Securidaca inappendiculata* (stem). **Ref:** 5238.

**19646 Securixanthone B**

3,7-Dimethoxy-4-hydroxyxanthone C₁₅H₁₂O₅ (272.26). Fine yellow needles (MeOH), mp 178°C. **Source:** CHAN YI TENG *Securidaca inappendiculata* (stem). **Ref:** 5238.

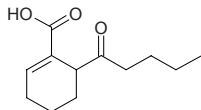
**19647 (2S,2'S)-Sedamine**

C₁₄H₂₁NO (219.33). **Source:** TAI JING TIAN *Sedum acre*, *Sedum* spp. **Ref:** 1521.

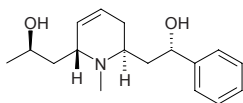


19648 Sedanonic acid

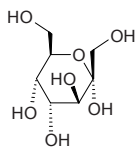
$C_{12}H_{18}O_3$ (210.38). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19649 (-)-Sedinine**

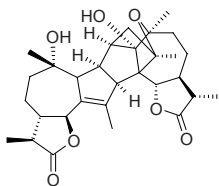
$C_{17}H_{25}NO_2$ (275.39). Source: FEI CAI *Sedum aizoon*, TAI JING TIAN *Sedum acre*. Ref: 660, 1521.

**19650 Sedoheptulose**

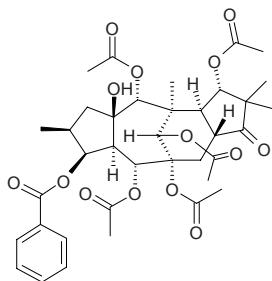
$C_7H_{14}O_7$ (210.19). Source: FAN MU GUA *Carica papaya*, FEI CAI *Sedum aizoon*, SHI ZHI JIA *Sedum sarmentosum*, YING SU KE *Papaver somniferum*. Ref: 660.

**19651 Seemarin**

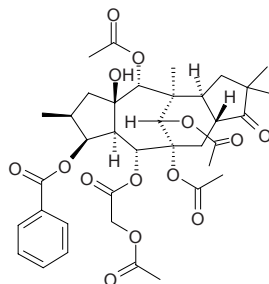
$C_{30}H_{40}O_7$ (512.65). mp 256–257°C, $[\alpha]_D = +114.5^\circ$ ($c = 0.10$, MeOH/CHCl₃). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2302.

**19652 Segetene 3**

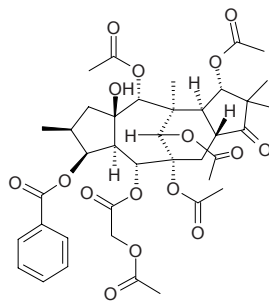
$C_{37}H_{46}O_{14}$ (714.77). Pharm: Antifeedant (*Spodopetra littoralis*, 1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, $EC_{50} > 100\mu\text{g/mL}$); cytotoxic (MT-4, $CC_{50} > 100\mu\text{g/mL}$). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

**19653 Segetene 4**

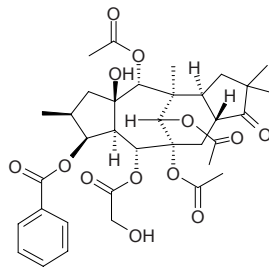
$C_{37}H_{46}O_{14}$ (714.77). Pharm: Antifeedant (*Spodopetra littoralis*, 1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, $EC_{50} > 100\mu\text{g/mL}$); cytotoxic (MT-4, $CC_{50} > 100\mu\text{g/mL}$). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

**19654 Segetene 5**

$C_{39}H_{48}O_{16}$ (772.81). Pharm: Antifeedant (*Spodopetra littoralis*, 500mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, $EC_{50} = 51\mu\text{g/mL}$); cytotoxic (MT-4, $CC_{50} = 51\mu\text{g/mL}$). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

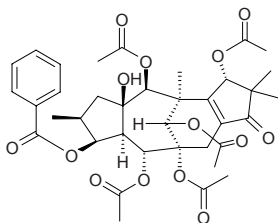
**19655 Segetene 6**

$C_{35}H_{44}O_{13}$ (672.73). Pharm: Anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, $EC_{50} > 100\mu\text{g/mL}$); cytotoxic (MT-4, $CC_{50} > 100\mu\text{g/mL}$). Source: HAI YANG DA JI *Euphorbia paralias* (aerial parts). Ref: 5221.

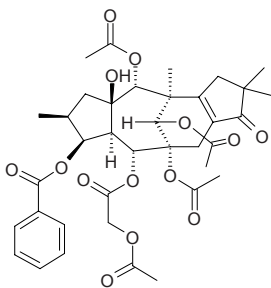


19656 Segetene A

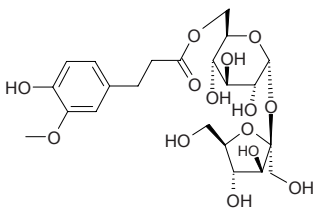
5 α ,6,11 α ,14 β ,17(*R*)-Pentaacetoxy-3 β -benzoyloxy-15 β -hydroxyseget-8(12)-en-9-one C₃₇H₄₄O₁₄ (712.75). White amorphous powder, $[\alpha]_D = -4^\circ$ ($c = 0.17$, MeOH). **Pharm:** Antifeedant (*Spodopetra littoralis*, > 1000mg/L); anti-HIV-1 (inhibition of virus-induced cytopathicity in MT-4 cells, EC₅₀ > 100 μ g/mL); cytotoxic (MT-4, CC₅₀ > 100 μ g/mL). **Source:** HAI YANG DA JI *Euphorbia paralias* (aerial parts). **Ref:** 5221.

**19657 Segetene B**

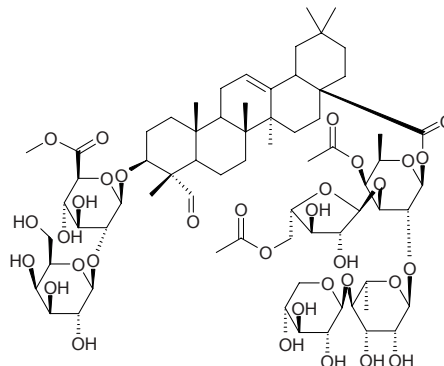
6,14 α ,17(*R*)-Triacetoxy-5 α -(2-acetoxyacetoxy)-3 β -benzoyloxy-15 β -hydroxyseget-8(12)-en-9-one C₃₇H₄₄O₁₄ (712.75). White amorphous powder, $[\alpha]_D = -51^\circ$ ($c = 0.13$). **Pharm:** Antifeedant (*Spodopetra littoralis*, > 1000mg/L). **Source:** HAI YANG DA JI *Euphorbia paralias* (aerial parts). **Ref:** 5221.

**19658 Segetoside A**

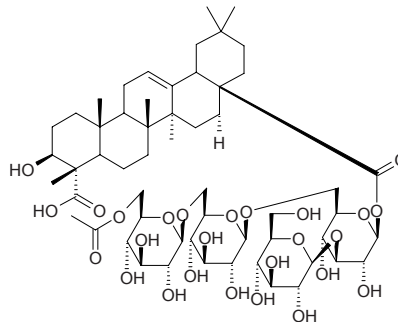
α -D-(6-*O*-Dihydroferuloyl)-glucuronosyl(1 \rightarrow 2)- β -D-fructofuranoside C₂₂H₃₂O₁₅ (536.49). Colorless oil, $[\alpha]_D^{24} = +38.21^\circ$ ($c = 0.56$, MeOH). **Source:** WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. **Ref:** 8.

**19659 Segetoside B**

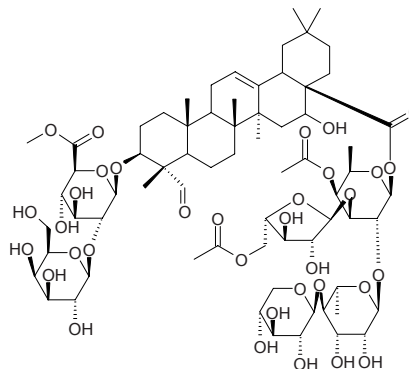
28-*O*- β -D-Xylopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-[α -L-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -D-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -D-galactopyranosyl(1 \rightarrow 2)- β -D-(6-*O*-methyl ester)-glucuronopyranoside C₆₉H₁₀₆O₃₃ (1463.59). White powder, $[\alpha]_D^{24} = -8.70^\circ$ ($c = 0.52$, MeOH). **Source:** WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. **Ref:** 8.

**19660 Segetoside C**

Gypsogenic acid-28-*O*- β -D-(6-*O*-acetyl)-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 6)-[β -D-glucopyranosyl(1 \rightarrow 3)]- β -D-glucopyranoside C₅₆H₈₈O₂₆ (1177.31). White powder, $[\alpha]_D^{22} = +8.86^\circ$ ($c = 0.43$, MeOH). **Source:** WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. **Ref:** 8.

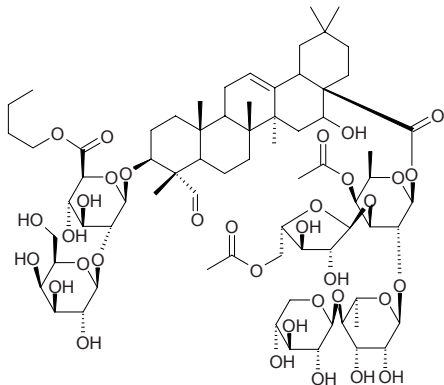
**19661 Segetoside D**

28-*O*- β -D-Xylopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-[α -L-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -D-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -D-galactopyranosyl(1 \rightarrow 2)- β -D-(6-*O*-methyl ester)-glucuronopyranoside C₆₉H₁₀₆O₃₄ (1479.59). White powder, $[\alpha]_D^{24} = -13.97^\circ$ ($c = 1.40$, MeOH). **Source:** WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. **Ref:** 8.

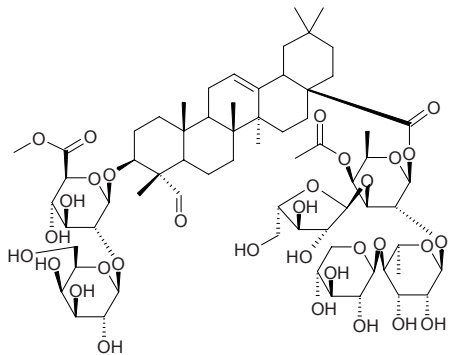


19662 Segetoside E

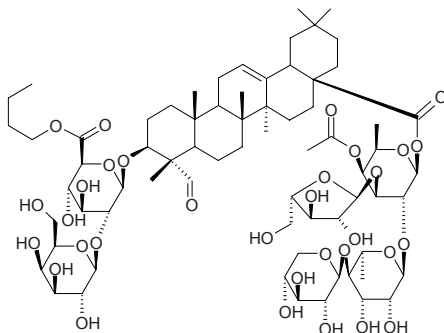
28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-*a*-rabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-*n*-butyl ester)-glucuronopyranoside C₇₂H₁₁₂O₃₄ (1521.68). White powder, $[\alpha]_D^{24} = -17.93^\circ$ (c = 0.50, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

**19663 Segetoside F**

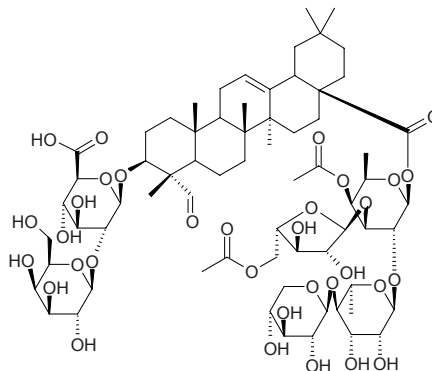
28-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinofuranosyl(1 \rightarrow 3)- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-methyl ester)-glucuronopyranoside C₆₇H₁₀₄O₃₂ (1461.56). White powder, $[\alpha]_D^{24} = -5.03^\circ$ (c = 0.52, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

**19664 Segetoside G**

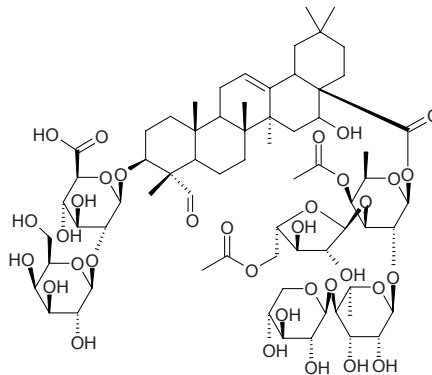
28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-*n*-butyl ester)-glucuronopyranoside C₇₀H₁₁₀O₃₂ (1463.64). White powder, $[\alpha]_D^{24} = -6.39^\circ$ (c = 0.36, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

**19665 Segetoside H**

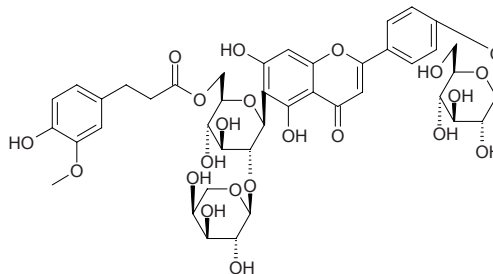
28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-*a*-rabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranoside C₆₈H₁₀₄O₃₃ (1449.57). White powder, $[\alpha]_D^{24} = -36.71^\circ$ (c = 0.14, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

**19666 Segetoside I**

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-*a*-rabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranoside C₆₈H₁₀₄O₃₄ (1465.57). White powder, $[\alpha]_D^{24} = -13.94^\circ$ (c = 1.27, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

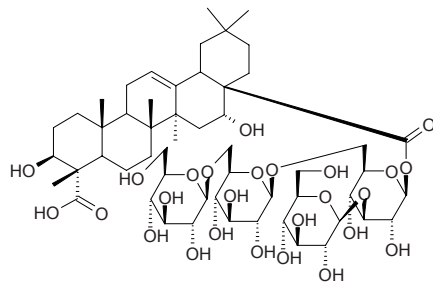
**19667 Segetoside J**

4'-*O*-Glucopyranosyl apigenin-6-*C*- α -*L*-arabinopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-dihydroferuloyl)-glucopyranoside C₄₂H₄₈O₂₂ (904.84). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

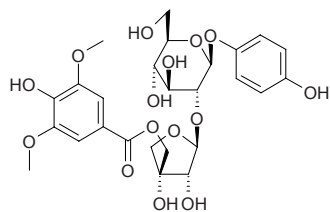


19668 Segetoside K

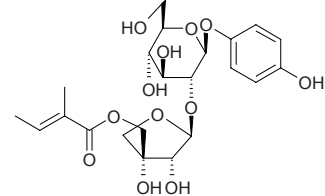
Olean-12-ene-23 α ,28 β -dioic acid-3 β -,16 α -dihydroxy-28-*O*- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 6)-[β -D-glucopyranosyl(1 \rightarrow 3)]- β -D-glucopyranoside C₅₄H₈₆O₂₆ (1151.27). White powder, $[\alpha]_D^{24} = -20.53^\circ$ ($c = 0.28$, MeOH). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 8.

**19669 Seguiniside F**

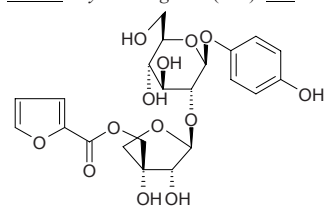
C₂₆H₃₂O₁₅ (584.54). Source: JIU BING YE *Glycosmis pentaphylla* (stem). Ref: 4424.

**19670 Seguiniside G**

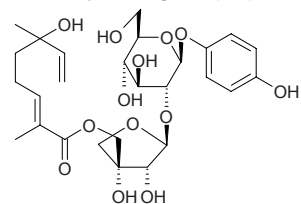
C₂₂H₃₀O₁₂ (486.48). Amorphous powder, $[\alpha]_D^{22} = -85.1^\circ$ ($c = 0.48$, MeOH). Source: *Myrsine seguinii* (leaf). Ref: 2378.

**19671 Seguiniside H**

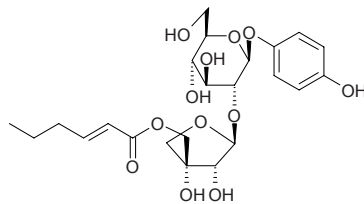
C₂₂H₂₆O₁₃ (498.44). Amorphous powder, $[\alpha]_D^{22} = -72.1^\circ$ ($c = 0.89$, MeOH). Source: *Myrsine seguinii* (leaf). Ref: 2378.

**19672 Seguiniside I**

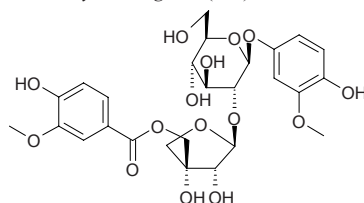
C₂₇H₃₈O₁₃ (570.60). Amorphous powder, $[\alpha]_D^{22} = -53.7^\circ$ ($c = 0.99$, MeOH). Source: *Myrsine seguinii* (leaf). Ref: 2378.

**19673 Seguiniside J**

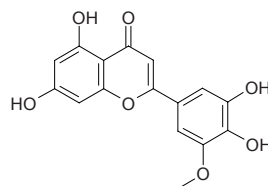
C₂₃H₃₂O₁₂ (500.50). Amorphous powder, $[\alpha]_D^{23} = -70.2^\circ$ ($c = 0.41$, MeOH). Source: *Myrsine seguinii* (leaf). Ref: 2378.

**19674 Seguiniside K**

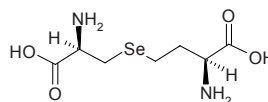
C₂₆H₃₆O₁₅ (584.54). Amorphous powder, $[\alpha]_D^{22} = -52.4^\circ$ ($c = 0.21$, MeOH). Source: *Myrsine seguinii* (leaf). Ref: 2378.

**19675 Selagin**

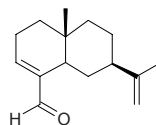
C₁₆H₁₂O₇ (316.27). Source: XIAO JIE JIN CAO *Huperzia selago* [Syn. *Lycopodium selago*]. Ref: 660.

**19676 L-Selenocystathionine**

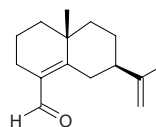
C₇H₁₄N₂O₄Se (269.16). Pharm: Toxin. Source: *Astragalus* sp. Ref: 658.

**19677 (-)-Selina-3,11-dien-14-al**

C₁₅H₂₂O (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

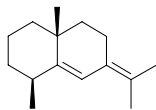
**19678 (+)-Selina-4,11-dien-14-al**

C₁₅H₂₂O (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

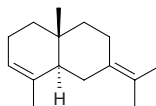


19679 (-)-Selina-5,7(11)-diene

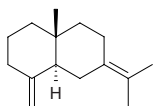
$C_{15}H_{24}$ (204.36). Colorless oil. Source: TIE JIAO JUE YU TAI *Plagiochila asplenioides* (essential oil). Ref: 5257.

**19680 3,7(11)-Selinadiene**

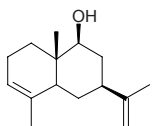
$C_{15}H_{24}$ (204.36). Source: MA HUA *Cannabis sativa*. Ref: 660.

**19681 Selina-4(15),7(11)-diene**

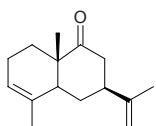
Selina-4(15),7(11)-diene $C_{15}H_{24}$ (204.36). Source: MA HUA *Cannabis sativa*, PI JIU HUA *Humulus lupulus*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 660.

**19682 (+)-Selina-3,11-dien-9-ol**

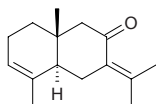
$C_{15}H_{24}O$ (220.36). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**19683 (-)-Selina-3,11-dien-9-one**

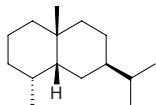
$C_{15}H_{22}O$ (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**19684 Selina-3,7(11)-dien-8-one**

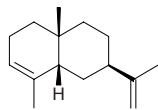
$C_{15}H_{22}O$ (218.34). Source: SHUANG YE XI XIN *Asarum caulescens*. Ref: 660.

**19685 Selinane**

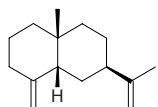
Selinane $C_{15}H_{28}$ (208.39). Source: CHEN XIANG *Aquilaria agallocha*, MAN SHAN HONG *Rhododendron dauricum*. Ref: 6.

**19686 α-Selinene**

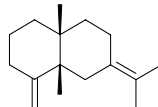
$C_{15}H_{24}$ (204.36). bp 268~272°C. Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**19687 β-Selinene**

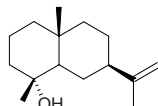
$C_{15}H_{24}$ (204.36). Source: BEI CANG ZHU *Atractylodes chinensis*, CANG ZHU *Atractylodes lancea*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], NAN HE SHI *Daucus carota*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], WU WEI ZI *Schisandra chinensis*. Ref: 2, 660.

**19688 γ-Selinene**

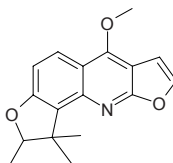
$C_{15}H_{24}$ (204.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2.

**19689 Selin-11-en-4α-ol**

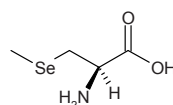
$C_{15}H_{26}O$ (222.37). Pharm: NO production Inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, $IC_{50} = 39\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 28\mu\text{mol/L}$)^[4655]; β-hexosaminidase release inhibitor (RBL-2H3 Cells, $100\mu\text{mol/L}$, InRt = 11.9%; control Curcumin, InRt = 62.6%)^[4655]. Source: YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0009%dw). Ref: 4655.

**19690 Semecarpine**

$C_{17}H_{17}NO_3$ (283.33). Pale yellow needles ($CHCl_3$ - Me_2CO), mp 145~147°C, $[\alpha]_D^{24} = +2.6$ ($c = 0.14$, MeOH). Pharm: Cytotoxic (P_{388} cell line, $ED_{50} = 28.1\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.06\mu\text{g/mL}$; HT29, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.07\mu\text{g/mL}$; A549, $ED_{50} = 29.3\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.08\mu\text{g/mL}$). Source: SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*. Ref: 5405.

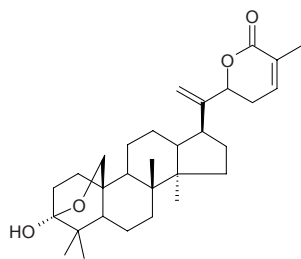
**19691 Se-Methyl-L-selenocysteine**

$C_4H_9NO_2Se$ (182.08). Pharm: Causes selenium poisoning. Source: ER GOU HUANG QI *Astragalus bisulcatus*. Ref: 658.

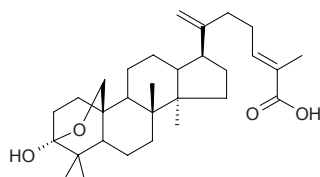


19692 Semialactone

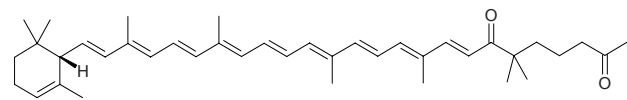
$C_{30}H_{44}O_4$ (468.68). White powder, $[\alpha]_D^{25} = +73^\circ$ ($c = 0.15$, $CHCl_3$). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (stem cortex). Ref: 4111.

**19693 Semialatic acid**

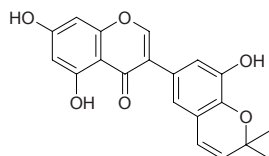
$C_{30}H_{46}O_4$ (470.70). White powder, $[\alpha]_D^{25} = +71^\circ$ ($c = 0.40$, $CHCl_3$). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (stem cortex). Ref: 4111.

**19694 Semi- α -carotenone**

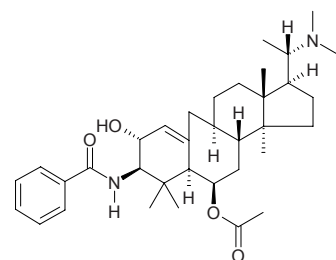
$C_{40}H_{56}O_2$ (568.89). mp $135^\circ C$. Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*]. Ref: 6.

**19695 Semilicoisoflavone B**

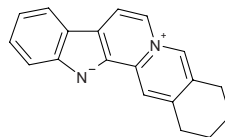
[129280-33-7] $C_{20}H_{16}O_6$ (352.35). Source: CU MAO GAN CAO *Glycyrrhiza aspera*, *Glycyrrhiza* sp. Ref: 660, 2431.

**19696 Semperviraminol**

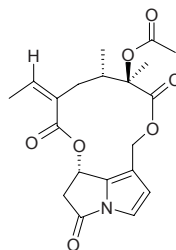
$C_{35}H_{52}N_2O_4$ (564.82). Pharm: AChE inhibitor inactive (control Physostigmine), $IC_{50} = (0.041 \pm 0.001) \mu mol/L$. Source: DUO RU TOU HUANG YANG *Buxus papillosa* (leaf). Ref: 5216.

**19697 Sempervirine II**

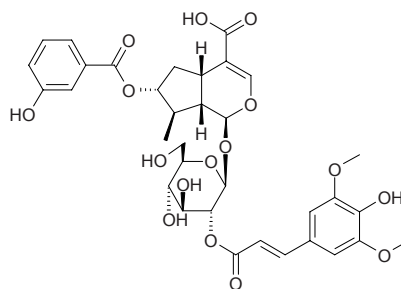
Sempervirine; Sempervine $C_{19}H_{16}N_2$ (272.35). Pharm: Antineoplastic. Source: CHANG LV GOU WEN *Gelsemium sempervirens*. Ref: 658.

**19698 Senaetnine**

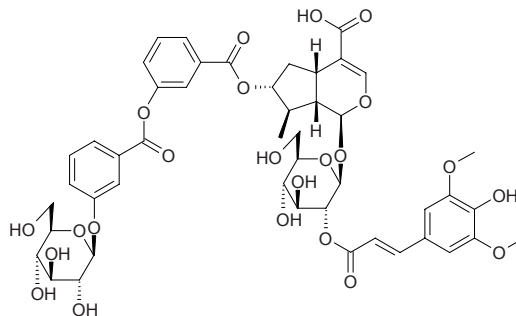
[64191-69-1] $C_{20}H_{23}NO_7$ (389.41). Crystals, mp $183.5^\circ C$, $[\alpha]_D^{24} = 10.6^\circ$ ($c = 2.5$, $CHCl_3$). Pharm: Toxin (rat, harmful to lung not liver). Source: *Senecio aetnensis*. Ref: 658, 1521.

**19699 Senburiside I**

$C_{34}H_{38}O_{16}$ (702.67). Source: BAO JING ZHANG YA CAI *Swertia franchetiana* (whole herb). Ref: 4469.

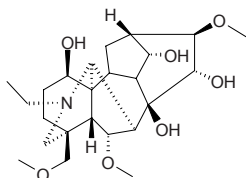
**19700 Senburiside III**

$C_{47}H_{52}O_{23}$ (984.92). White amorphous powder (MeOH-H₂O), $[\alpha]_D^{25} = -60.0^\circ$ ($c = 1.03$, MeOH). Source: BAO JING ZHANG YA CAI *Swertia franchetiana* (whole herb). Ref: 4469.

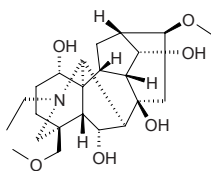


19701 Senbusine C

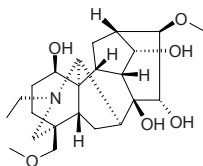
Fuziline [80665-72-1] $C_{24}H_{39}NO_7$ (453.58). White mass crystals, mp 202.5~206.0°C; colorless powder, $[\alpha]_D^{26} = +10.8^\circ$ ($c = 1.564$, $CHCl_3$). Source: WU TOU *Aconitum carmichaeli*, ZHONG BA E ZHANG YE FU ZI *Aconitum carmichaeli* cv. Ref: 461, 2502.

**19702 Senbusine A**

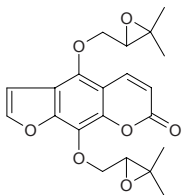
[82202-95-7] $C_{23}H_{37}NO_6$ (423.55). White amorphous powder. Source: GUA YE WU TOU *Aconitum hemsleyanum*, WU TOU *Aconitum carmichaeli*. Ref: 2208.

**19703 Senbusine B**

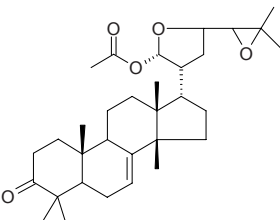
$C_{23}H_{37}NO_6$ (423.55). Source: WU TOU *Aconitum carmichaeli*. Ref: 660.

**19704 Sen-byakangelicol**

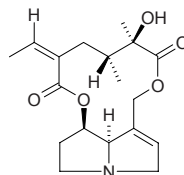
$C_{21}H_{22}O_7$ (386.41). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**19705 Sendanone acetate**

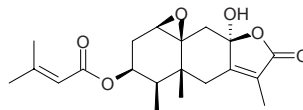
$C_{32}H_{48}O_5$ (512.74). mp 184~186°C. Source: RI BEN KU LIAN *Melia azedarach* var. *japonica*. Ref: 6, 660.

**19706 Senecionine**

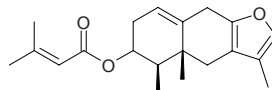
12-Hydroxysenecionan-11,16-dione [130-01-8] $C_{18}H_{25}NO_5$ (335.40). mp 232~233°C. Pharm: Antispasmodic (intestinal smooth muscle relaxant); mutagen; reduces arteriotony; toxin (poison for liver, lung and reproductive system); LD_{50} (mus, ip) = 64.9mg/kg. Source: CAO DIAN QIAN LI GUANG *Senecio jacobaea*, DA BAI DING CAO *Senecio oryzetorum*, DA TOU TUO WU *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], OU ZHOU QIAN LI GUANG *Senecio vulgaris*. Ref: 6, 658.

**19707 3β-Seneciyoxy-1β,10β-epoxy-8α-hydroxyeremophil-7(11)-en-8β(12)-olide**

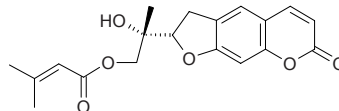
$C_{20}H_{26}O_6$ (362.43). White needles (MeOH), mp 182~184°C, $[\alpha]_D^{25} = -123^\circ$ ($c = 0.75$, acetone). Pharm: Antibacterial (*Bacillus subtilis*, 100μg/mL, IZD = 13~15mm, moderate, control Chloromycetin, IZD = 16~20mm; *Escherichia coli*, 100μg/mL, IZD = 13~15mm, Chloromycetin, IZD = 16~20mm)^[4627]. Source: JIA TUO WU *Ligulariopsis shichuana* (whole herb: yield = 0.0012%dw). Ref: 4627.

**19708 Seneciyoxyeryopsin**

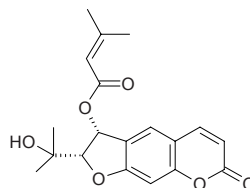
$C_{20}H_{26}O_3$ (314.43). Source: HUANG SE QIAN LI GUANG *Senecio flavus*. Ref: 2409.

**19709 (+)-2''-Seneciyoxyarmesin**

$C_{19}H_{20}O_6$ (344.37). mp 100~102°C (hexane- CH_2Cl_2), $[\alpha]_D^{20} = +28^\circ$ ($c = 0.7$, $CHCl_3$). Source: JU MAO LEI A WEI *Ferulago capillaries* (root). Ref: 3938.

**19710 (-)-(2''S,3'R)-3'-Seneciyoxyarmesin**

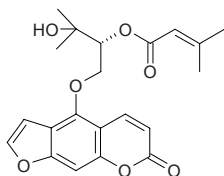
$C_{19}H_{20}O_6$ (344.37). mp 148~149°C (*n*-hexane- CH_2Cl_2), $[\alpha]_D^{20} = -236^\circ$ ($c = 1.3$, $CHCl_3$). Source: JU MAO LEI A WEI *Ferulago capillaries* (root). Ref: 3938.



19711 (+)-Senecioplpranol

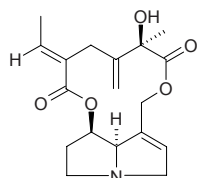
$C_{21}H_{22}O_7$ (386.41). mp 164~165°C (MeOH), $[\alpha]_D^{20} = +9.0^\circ$ ($c = 1.0$, Me_2CO_3).

Source: JU MAO LEI A WEI *Ferulago capillaries* (root). Ref: 3938.

**19712 (E)-Seneciophylline**

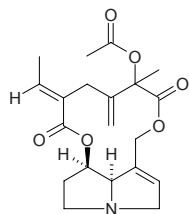
[480-81-9] $C_{18}H_{23}NO_5$ (333.39). White acicular crystals, mp 217~218°C.

Pharm: Antispasmodic (rat and rbt, isolated intestinal tube, spasm induced by carbachol); toxin (poison for heart, liver and lung). Source: CAO DIAN QIAN LI GUANG *Senecio jacobaea*, DA BAI DING CAO *Senecio oryzetorum*, FEI LV BIN QIAN LI GUANG *Senecio phillicus*, KUAN YE QIAN LI GUANG *Senecio platyphyllus*, OU ZHOU QIAN LI GUANG *Senecio vulgaris*, SHU MA *Crotalaria juncea*, TU SAN QI *Senecio chrysanthemoides*. Ref: 6, 151, 658.

**19713 Seneciophyllinine**

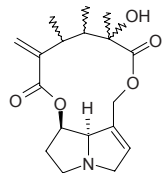
$C_{20}H_{25}NO_6$ (375.43). White acicular crystals, mp 82.0~82.5°C. Source: SAN

QI CAO *Gynura segetum* [Syn. *Gynura japonica*]. Ref: 151.

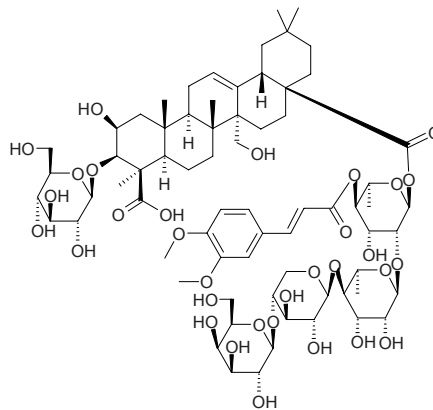
**19714 Senecivernine**

[72755-25-0] $C_{18}H_{25}NO_5$ (335.41). Pharm: Hepatotoxin. Source: CHUN

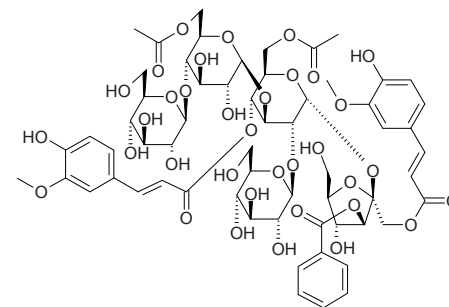
QIAN LI GUANG *Senecio vernalis*. Ref: 658.

**19715 Senegin II**

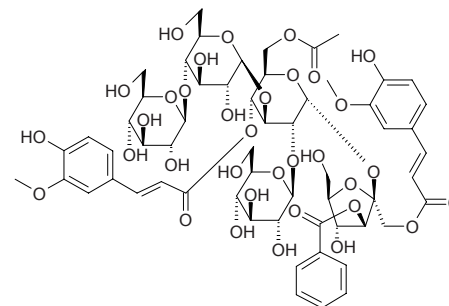
2,3,27-Trihydroxy-12-oleanene-23,28-dioic acid 3-O- β -D-glucopyranoside, 28-O-[β -D-galactopyranosyl-(1→4)- β -D-xylopyranosyl-(1→4)- α -L-rhamnopyranosyl-(1→2)-[3,4-dimethoxycinnamoyl-(1→4)]- α -L-fucopyranosyl] ester [34366-31-9] $C_{70}H_{104}O_{32}$ (1457.60). Pharm: Antineoplastic; antitussive (dispels phlegm). Source: MEI YUAN ZHI *Polygala senega*. Ref: 658, 1521.

**19716 Senegose A**

[151466-60-3] $C_{61}H_{76}O_{35}$ (1369.26). $[\alpha]_D = -9.9^\circ$. Source: KUAN YE MEI YUAN ZHI *Polygala senega* var. *latifolia*. Ref: 2184.

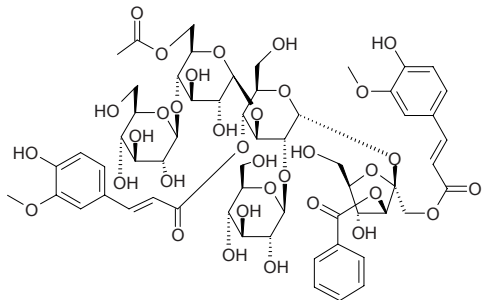
**19717 Senegose B**

$C_{59}H_{74}O_{34}$ (1327.23). $[\alpha]_D = -10.2^\circ$. Source: KUAN YE MEI YUAN ZHI *Polygala senega* var. *latifolia*. Ref: 2184.

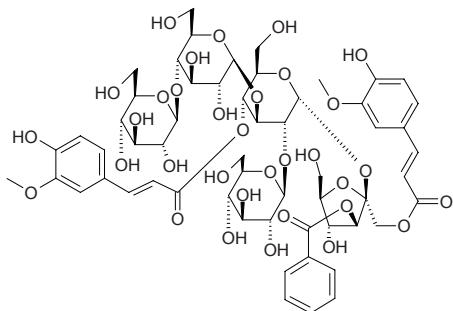


19718 Senegose C

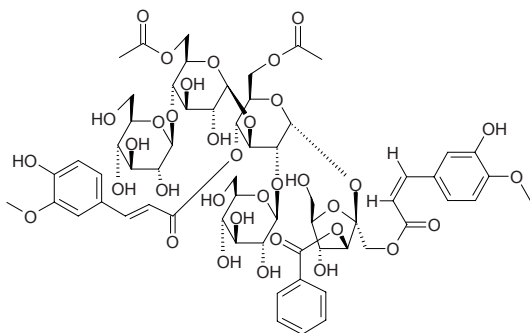
$C_{59}H_{74}O_{34}$ (1327.23). $[\alpha]_D = -16.0^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19719 Senegose D**

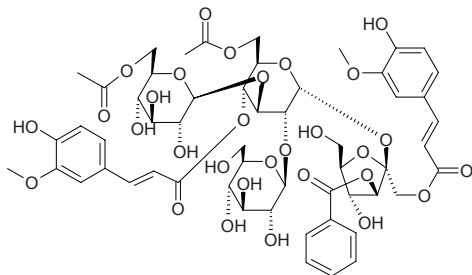
$C_{57}H_{72}O_{33}$ (1285.19). $[\alpha]_D = -6.9^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19720 Senegose E**

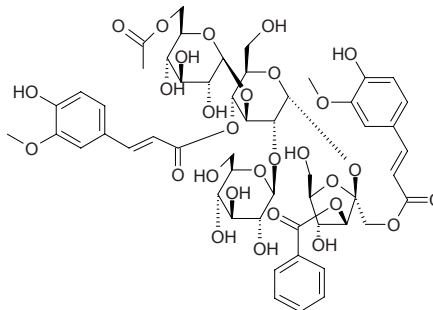
$C_{61}H_{76}O_{35}$ (1329.26). $[\alpha]_D = +64.5^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19721 Senegose F**

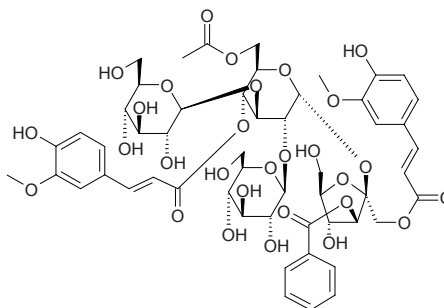
$C_{55}H_{66}O_{30}$ (1207.12). $[\alpha]_D = -11.5^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19722 Senegose G**

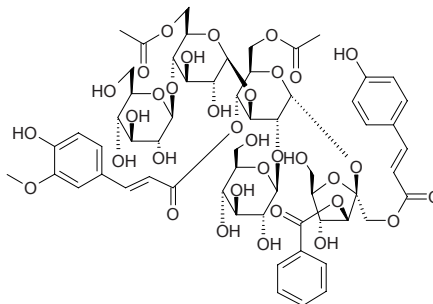
$C_{53}H_{64}O_{29}$ (1165.08). $[\alpha]_D = +1.2^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19723 Senegose H**

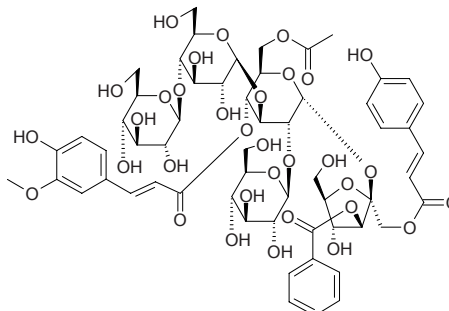
$C_{53}H_{64}O_{29}$ (1165.08). $[\alpha]_D = -3.0^\circ$. Source: KUAN YE MEI YUAN ZHI
Polygala senega var. *latifolia*. Ref: 2184.

**19724 Senegose J**

$C_{60}H_{74}O_{34}$ (1339.24). $[\alpha]_D = -6.6^\circ$. Source: MEI YUAN ZHI *Polygala senega*.
Ref: 2184.

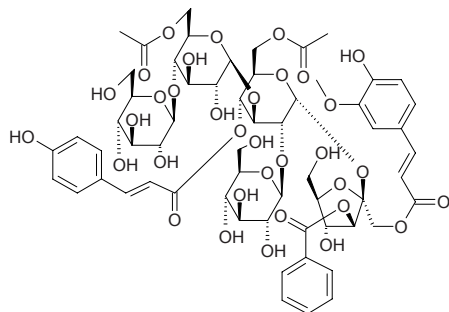
**19725 Senegose K**

$C_{58}H_{72}O_{33}$ (1297.20). $[\alpha]_D = -2.6^\circ$. Source: MEI YUAN ZHI *Polygala senega*.
Ref: 2184.

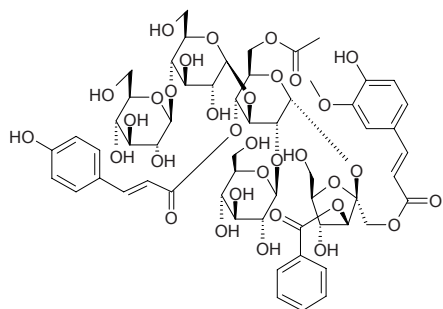


19726 Senegose L

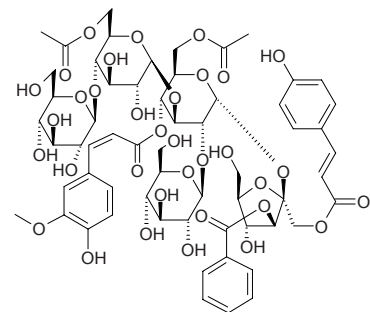
$C_{60}H_{74}O_{34}$ (1339.24). $[\alpha]_D = -6.3^\circ$. Source: MEI YUAN ZHI *Polygala senega*.
Ref: 2184.

**19727 Senegose M**

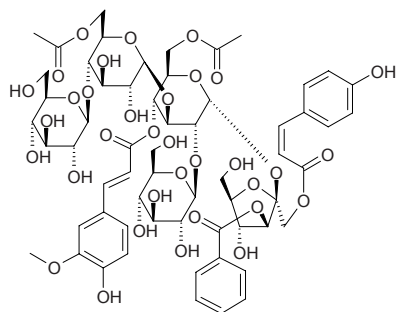
$C_{58}H_{72}O_{33}$ (1297.20). $[\alpha]_D = -4.4^\circ$. Source: MEI YUAN ZHI *Polygala senega*.
Ref: 2184.

**19728 Senegose N**

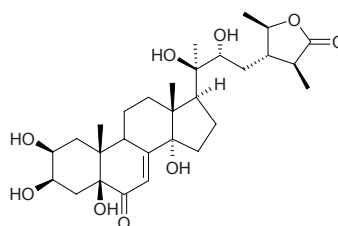
$C_{60}H_{74}O_{34}$ (1339.24). $[\alpha]_D = +39.6^\circ$. Source: MEI YUAN ZHI *Polygala senega*. Ref: 2184.

**19729 Senegose O**

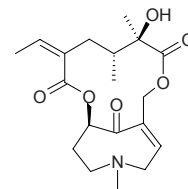
$C_{60}H_{74}O_{34}$ (1339.24). $[\alpha]_D = -13.1^\circ$. Source: MEI YUAN ZHI *Polygala senega*. Ref: 2184.

**19730 Sengosterone**

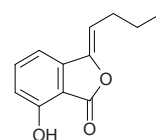
[22799-11-7] $C_{29}H_{44}O_9$ (536.67). mp 159~161°C. Source: MA NIU XI *Cyathula capitata*. Ref: 6.

**19731 Senkirkine**

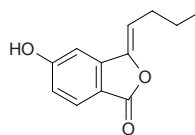
[2318-18-5] $C_{19}H_{27}NO_6$ (365.43). Pharm: Carcinogen (liver); mutagen (Ames experiment, cell culture, and fruit fly experiment). Source: CAO DIAN QIAN LI GUANG *Senecio jacobaea*, CHUN QIAN LI GUANG *Senecio vernalis*, FENG DOU CAI *Petasites japonicus*, JIN LIAN HUA ZHU SHI DOU *Crotalaria laburnifolia*, KUAN DONG HUA *Tussilago farfara*, LEI SHI QIAN LI GUANG *Senecio renardii*, LIAN PENG CAO *Farfugium japonicum*, YI DIAN HONG *Emilia sonchifolia*. Ref: 658, 660.

**19732 Senkyunolide B**

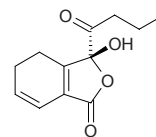
$C_{12}H_{12}O_3$ (204.23). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19733 Senkyunolide C**

(Z)-5-Hydroxy-3-butylidene-phthalide $C_{12}H_{12}O_3$ (204.23). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2, 660.

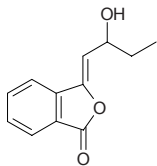
**19734 Senkyunolide D**

$C_{12}H_{14}O_4$ (222.24). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

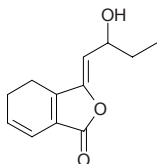


19735 Senkyunolide E

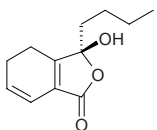
$C_{12}H_{12}O_3$ (204.23). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19736 Senkyunolide F**

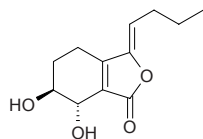
$C_{12}H_{14}O_3$ (206.24). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19737 Senkyunolide G**

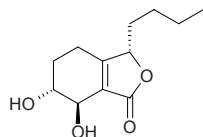
[94530-85-5] $C_{12}H_{16}O_3$ (208.26). Pharm: Anticonvulsant (rat, cerebral section, inhibits release of Glu-transmitter). Source: CHA XIONG *Ligusticum sinense* cv. *chaxiong*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], GAO BEN *Ligusticum sinense*. Ref: 531, 660, 1596.

**19738 Senkyunolide H**

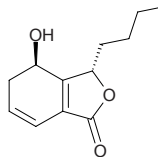
[94596-27-7] $C_{12}H_{16}O_4$ (224.26). Pharm: Anticonvulsant (rat, cerebral section, inhibits release of Glu-transmitter); anti-arteriosclerosis (mus, inhibits proliferation of cultured cell in aortal smooth muscle $IC_{50} < 0.1 \mu g/mL$). Source: CHA XIONG *Ligusticum sinense* cv. *chaxiong*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], GAO BEN *Ligusticum sinense*. Ref: 531, 660, 1596, 1600.

**19739 Senkyunolide J**

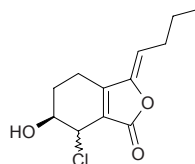
$C_{12}H_{18}O_4$ (226.27). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19740 Senkyunolide K**

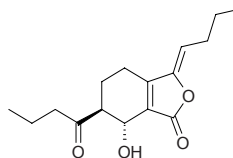
$C_{12}H_{16}O_3$ (208.26). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**19741 Senkyunolide L**

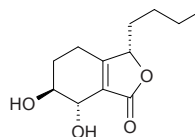
$C_{12}H_{15}ClO_3$ (242.70). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**19742 Senkyunolide M**

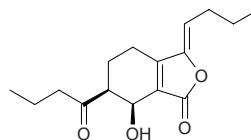
$C_{16}H_{22}O_4$ (278.35). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**19743 Senkyunolide N**

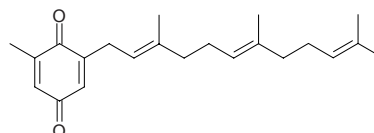
3*S*,6*S*,7*S*-3-Butyl-4,5-dihydro-6,7-dihydroxy phthalide $C_{12}H_{18}O_4$ (226.27). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**19744 Senkyunolide Q**

$C_{16}H_{22}O_4$ (278.35). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

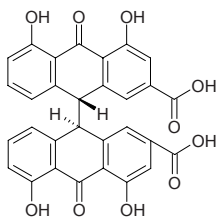
**19745 Senkyunone**

$C_{22}H_{30}O_2$ (326.48). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

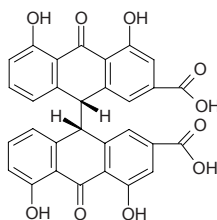


19746 Sennidin A

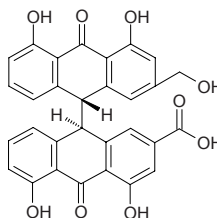
$C_{30}H_{18}O_{10}$ (538.47). **Source:** DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 660.

**19747 Sennidin B**

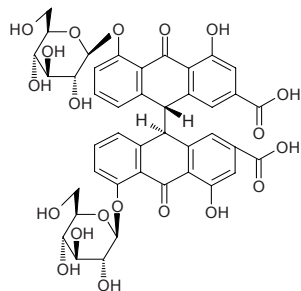
$C_{30}H_{18}O_{10}$ (538.47). **Source:** ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 660.

**19748 Sennidin C**

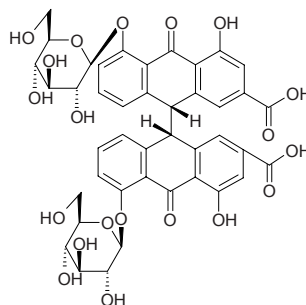
$C_{30}H_{20}O_9$ (524.49). **Source:** DA HUANG *Rheum officinale*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 660.

**19749 Sennoside A**

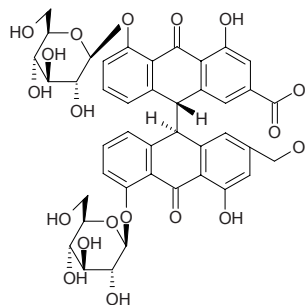
$C_{42}H_{38}O_{20}$ (862.76). **Pharm:** Laxative; hemostatic; LD_{50} (mus) = 1.414g/kg. **Source:** DA HUANG *Rheum officinale*, FAN XIE YE *Cassia angustifolia*, HE ZI *Terminalia chebula*, JIAN YE FAN XIE YE *Cassia acutifolia* (in 1950, the compound was isolated from the plant by A. Stoll et al.)^[5505], TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 658, 660, 5501, 5505.

**19750 Sennoside B**

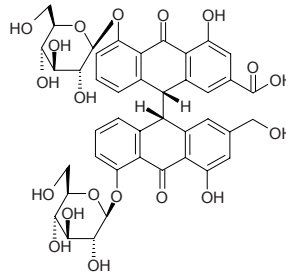
$C_{42}H_{38}O_{20}$ (862.76). **Pharm:** Laxative; hemostatic. **Source:** DA HUANG *Rheum officinale*, FAN XIE YE *Cassia angustifolia*, JIAN YE FAN XIE YE *Cassia acutifolia*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 660, 5501.

**19751 Sennoside C**

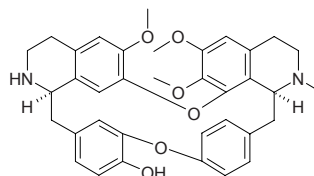
$C_{42}H_{40}O_{19}$ (848.78). **Source:** DA HUANG *Rheum officinale*, FAN XIE YE *Cassia angustifolia*, JIAN YE FAN XIE YE *Cassia acutifolia*, TANG GU TE DA HUANG *Rheum tanguticum*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 2, 660.

**19752 Sennoside D**

$C_{42}H_{40}O_{19}$ (848.78). **Source:** FAN XIE YE *Cassia angustifolia*, JIAN YE FAN XIE YE *Cassia acutifolia*, ZHANG YE DA HUANG *Rheum palmatum*. **Ref:** 660.

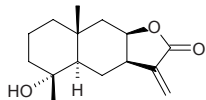
**19753 Sepeperine**

$C_{36}H_{38}N_2O_6$ (594.71). **Pharm:** Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, IC_{50} = 78.1 μ g/mL, IC_{90} = 285.3 μ g/mL); antimalarial (*Plasmodium falciparum* D6, LC_{50} = 73.6 ng/mL, SI = 92; *Plasmodium falciparum* W2, LC_{50} = 100.1 ng/mL, SI = 68); cytotoxic (KB, LC_{50} = 6800 ng/mL). **Source:** *Guatteria boliviana* (stem cortex). **Ref:** 3976.

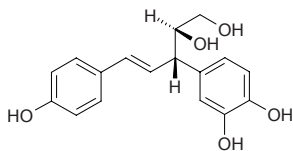


19754 Septuplinolide

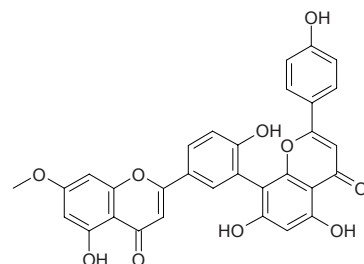
$C_{15}H_{22}O_3$ (250.34). Source: HE AN FU LAO JU *Flourensia riparia* (aerial parts). Ref: 3820.

**19755 Sequirin C**

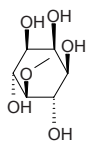
$C_{17}H_{18}O_5$ (302.33). $[\alpha]_D^{21} = +38.1^\circ$ ($c = 1.00$, Me_2CO). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**19756 Sequoiaflavone**

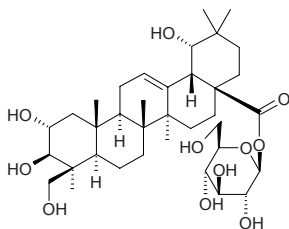
$C_{31}H_{20}O_{10}$ (552.5). Source: YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (leaf and twig; yield = 0.00025%dw). Ref: 4707.

**19757 Sequoyitol**

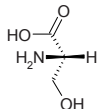
$C_7H_{14}O_6$ (194.19). Source: BAI GUO YE *Ginkgo biloba*., SAN JIAN SHAN *Cephalotaxus fortunei*, YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (leaf and twig; yield = 0.00017%dw). Ref: 660, 4707.

**19758 Sericoside**

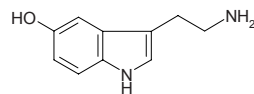
[55306-04-2] $C_{36}H_{58}O_{11}$ (666.86). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**19759 (S)-Serine**

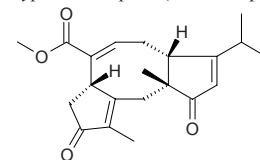
(L)-Serine $C_3H_7NO_3$ (105.09). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.66%~1.02%, mean content = 0.80%)^[5521], widely distributed in nature (from wide variety of protein hydrolysates). Ref: 660, 5521.

**19760 Serotonin**

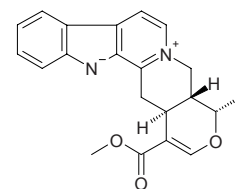
[65099-56-1] $C_{10}H_{12}N_2O$ (176.22). Pharm: Neurotransmitter. Source: CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, CI YANG LI DOU *Mucuna pruriens*, FAN QIE *Lycopersicon esculentum*, XIANG JIAO *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], YI ZHU QIAN MA *Urtica dioica*. Ref: 2, 658.

**19761 Serpendione**

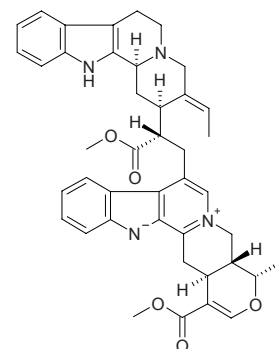
$C_{21}H_{26}O_4$ (342.44). $[\alpha]_D = +109.7^\circ$ ($c = 0.58$, $CHCl_3$). Pharm: Vasodilator (isolated rat aorta, 0.05mg/mL, strongly depressed the maximal responses to the contractile agent, InRt = 92.2%). Source: PU FU QIANG DAO YAO *Hypoestes serpens* (dried and powdered aerial parts). Ref: 3036.

**19762 Serpentine**

$C_{21}H_{20}N_2O_3$ (348.41). Pharm: Antineoplastic (mus, mammary cancer MS310); antihypertensive; CNS activity (increases atrial and ventricular thresholds, also reduces atrial conduction, dog heart iv, 0.5~2.0mg/kg). Source: BI SHI LUO FU MU *Rauwolfia beddomei*, CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], GUAN MU LUO FU MU *Rauwolfia fruticosa*, YIN DU LUO FU MU *Rauwolfia serpentina*. Ref: 2, 658.

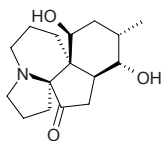
**19763 Serpentinine**

[36519-42-3] $C_{42}H_{44}N_4O_5$ (684.84). mp 265~270°C. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, YUN NAN LUO FU MU *Rauwolfia yunnanensis*. Ref: 6, 660.

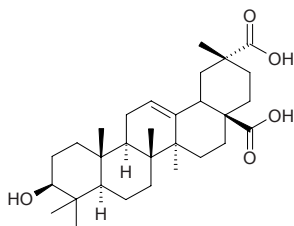


19764 Serrantinine

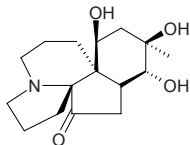
$C_{16}H_{25}NO_3$ (279.38). mp 244~245°C. Source: JU CHI SHI SONG *Lycopodium serratum* var. *thunbergii* (in 1966, the compound was isolated from the plant by K.Nishikawa et al.). Ref: 5505.

**19765 Serratagenic acid**

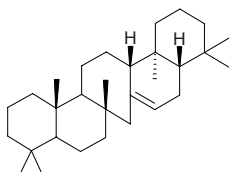
$C_{30}H_{46}O_5$ (486.70). mp > 310°C. Source: SAN TAI HONG HUA *Clerodendron serratum*. Ref: 6.

**19766 Serratanidine**

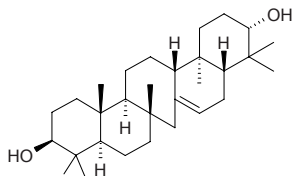
$C_{16}H_{25}NO_4$ (295.38). mp 210~211°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

**19767 Serratene**

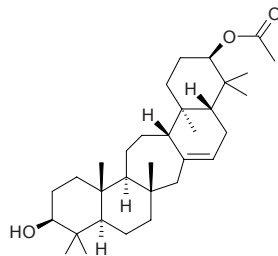
Serrat-14-ene $C_{30}H_{50}$ (410.73). mp 239.5~240.0°C. Source: DONG BEI DUO ZU JUE *Polypodium virginianum*, SHUI LONG GU *Polypodium niponicum*. Ref: 6, 660.

**19768 Serratenediol**

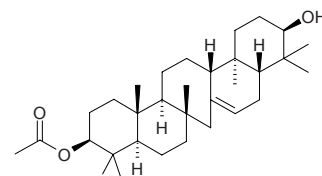
Serrat-14-en-3 β ,21 α -diol [2239-24-9] $C_{30}H_{50}O_2$ (442.73). Colorless powder, mp 302.5~304.5°C, mp 298~299°C (MeOH), $[\alpha]_D^{26} = +21.5^\circ$ ($c = 0.30$, $CHCl_3$). Source: GUO JIANG LONG *Lycopodium complanatum*, PU DI WU GONG *Lycopodium cernuum* (root, stem and leaf: yield = 0.0025%dw)^[4633], QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*] (2%; in 1964, the compound was isolated from the plant)^[5505]. Ref: 6, 4633, 5505.

**19769 Serratenediol-21-acetate**

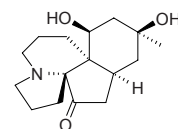
$C_{32}H_{52}O_3$ (484.77). White lamellar crystals, mp > 300°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 109.

**19770 Serratenediol-3-acetate**

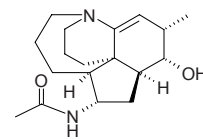
Phlegmanol C [1260-05-5] $C_{32}H_{52}O_3$ (484.77). Crystals (C_6H_6), mp 336~338°C, $[\alpha]_D^{15} = -20^\circ$ ($c = 0.5$, $CHCl_3$), mp 317~319°C. Source: MA WEI SHAN *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*], *Lycopodium megastachyum*. Ref: 6, 2987.

**19771 Serratine**

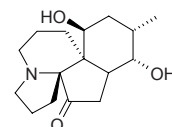
[15252-93-4] $C_{16}H_{25}NO_3$ (279.38). mp 253°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

**19772 Serratinidine**

[7689-04-5] $C_{18}H_{28}N_2O_2$ (304.44). mp 232~234°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

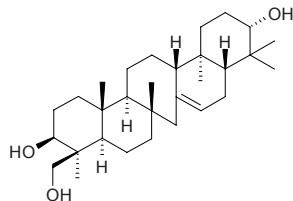
**19773 Serratinine**

[5545-99-3] $C_{16}H_{25}NO_3$ (279.38). mp 244~245°C. Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

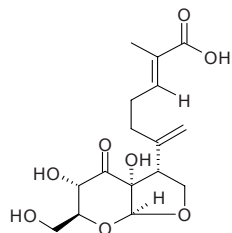


19774 Serratriol

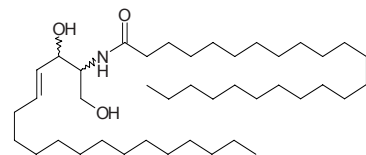
$C_{30}H_{50}O_3$ (458.73). mp 335~336°C. Source: PU DI WU GONG *Lycopodium cornu*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

**19775 Serratumin A**

$C_{16}H_{22}O_8$ (342.35). Brown gum, $[\alpha]_D^{16.7} = +11.53^\circ$ ($c = 0.009$, pyridine). Source: SAN TAI HUA *Clerodendrum serratum* var. *amplexifolium*. Ref: 887.

**19776 Sertularamide**

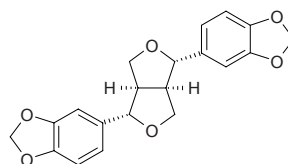
$C_{41}H_{81}NO_3$ (636.11). White amorphous powder. Source: BANG YE JUE ZAO *Caulerpa sertularioides*. Ref: 808.

**19777 Sesamin**

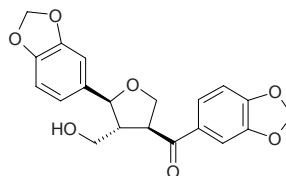
$C_{20}H_{18}O_6$ (354.36). Yellow needles, mp 122~124°C, mp 123~124°C, $[\alpha]_D^{23} = +42^\circ$ ($c = 0.1$, $CHCl_3$); (-) 122~124°C, (\pm) 129~130°C; mp 124°C, $[\alpha]_D^{25} = +63.2^\circ$ ($c = 0.34$, $CHCl_3$). Pharm: Antibacterial (*Mycobacterium tuberculosis*); antiviral (influenza virus, Sendai virus); antifungal (TLC bioautography method at very low concentration); antifungal (TLC-based assay, *Cladosporium cucumerinum*, MIQ = 0.1 μ g, control Moiconazole, MIQ = 1 μ g)^[5385]; cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 6.0 \mu$ g/mL, LLC cell line, $ED_{50} > 10 \mu$ g/mL)^[3510]; antioxidant (TLC-based assay, DPPH scavenger, MIQ = 10 μ g; control Quercetin, MIQ = 1 μ g)^[5385]; neuroprotective (glutamate-induced neurotoxicity in primary cultures of cortical cells, 0.1 μ mol/L, protection rate = (16.6 \pm 1.3)%), MK-801, 1.0 μ mol/L, protection rate = (83.6 \pm 2.0)%, $p < 0.001$, CNQX, 1.0 μ mol/L, protection rate = (70.5 \pm 1.5)%, $p < 0.001$)^[4927].

Source: BI BA *Piper longum*, BIAN XING MU LAN *Magnolia mutabilis*, CI HUA JIAO *Zanthoxylum acanthopodium*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], HAN CHENG XI XIN *Asarum sieboldii* var. *seoulensis* (the compound was isolated from the plant by T. Kaku et al. in 1931)^[5505], HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)] (seed: content scope = 0.18%~0.21%)^[5501], HONG NAN PI *Machilus thunbergii*, HU JIAO HUA JIAO *Zanthoxylum piperitum*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum* (dried whole herb: mean content = 0.0375%)^[5508], MAO PAO TONG *Paulownia*

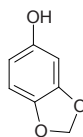
tomentosa, MENG DA NA YUN XIANG *Ruta montana*, QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0036%dw)^[4712], QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts), RONG MAO SHAN XIANG *Hyptis tomentosa*, RU DI JIN NIU *Zanthoxylum nitidum* (dried root: mean content = 0.115%)^[5508], SI LI LAN KA TU MI SHU *Bridelia retusa*, WU GENG WU JIA PI *Acanthopanax sessiliflorus*, WU JIA PI *Acanthopanax gracilistylus*, XI XIN *Asarum sieboldii* (dried whole herb: mean content = 0.0292%)^[5508], ZHONG YA KU HAO *Artemisia absinthium*, ZHOU YE MU LAN *Magnolia praecocissima* (seed), *Fagara xanthoxyloides*, *Fagara* sp., occurs in many plants. Ref: 2, 658, 660, 2021, 3510, 4181, 4712, 4927, 5385, 5501, 5505, 5508.

**19778 Sesaminone**

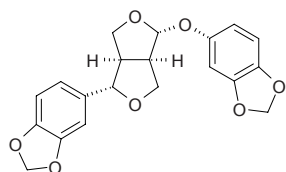
$C_{20}H_{18}O_7$ (370.36). $[\alpha]_D^{25} = -30.6^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Bone resorption inhibitor (bones were cultured with PTH 200 μ mol/L, ^{45}Ca release = (13.6 \pm 1.0)%, $p < 0.001$, control ^{45}Ca release = (15.4 \pm 1.3)%). Source: HAI JIN BI XIE *Dioscorea spongiosa* (rhizome). Ref: 4921.

**19779 Sesamol**

1,3-Benzodioxol-5-ol [533-31-3] $C_7H_6O_3$ (138.12). mp 65.8°C. Pharm: Causes allergic reaction (hmn skin). Source: BAI ZHI MA *Sesamum indicum* (white seed) [Syn. *Sesamum orientale* (white seed)], HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)]. Ref: 6, 658.

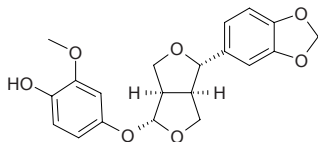
**19780 Sesamol**

$C_{20}H_{18}O_7$ (370.36). mp 94°C. Source: HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)]. Ref: 6.

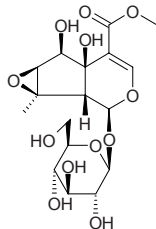


19781 Sesamolol

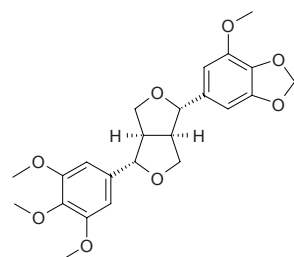
$C_{20}H_{20}O_7$ (372.38). **Pharm:** Antioxidant. **Source:** HEI ZHI MA *Sesamum indicum* (black seed) [Syn. *Sesamum orientale* (black seed)]. **Ref:** 658.

**19782 Sesamoside**

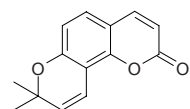
$C_{17}H_{24}O_{12}$ (420.37). **Source:** MENG GU CAO SU *Phlomis mongolica*, XIAN SHENG MA XIAN HAO *Pedicularis muscicola*. **Ref:** 560, 579.

**19783 Sesartemin**

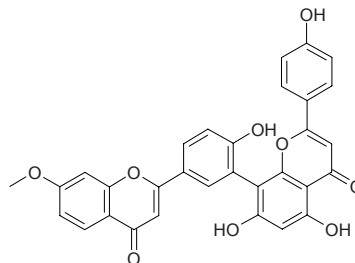
$C_{23}H_{26}O_8$ (430.46). **Pharm:** Monoamine oxidase inhibitor (microsome in digestive tract of *Ostrinia nubilalis*); lowers isolation-induced aggression (mouse); cytotoxic (Meth-A sarcoma cell line, $ED_{50} = 9.7\mu\text{g/mL}$, LLC cell line, $ED_{50} > 10\mu\text{g/mL}$)^[3510]. **Source:** QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts), ZHONG YA KU HAO *Artemisia absinthium*. **Ref:** 658, 3510.

**19784 Seselin**

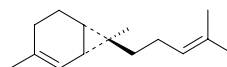
$C_{14}H_{12}O_3$ (228.25). mp 119~120°C. **Pharm:** Antifungal (*Curvularia lunata*, *Aspergillus niger*); antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500(mol ratio/32pmol TPA), EBV-EA-positive cells = (46.5±1.9)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); $IC_{50} = 461$ (mol ratio/32pmol TPA), β -Carotene, $IC_{50} = 400$ (mol ratio/32pmol TPA), Curcumin $IC_{50} = 341$ (mol ratio/32pmol TPA))^[5048]. **Source:** CHENG ZI *Citrus junos*, GOU JU *Poncirus trifoliata*, HAN QIN *Apium graveolens*, HUI XIANG *Foeniculum vulgare*, LI HUA JU *Citrus tachibana*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00012%dw)^[4722], XIAN YE QIN *Apium leptophyllum*, YIN DU XIE HAO *Seseli indicum*, ZHI GEN PI *Poncirus trifoliata*, ZHI KE *Citrus aurantium*, *Citrus rugulosa*, *Citrus hassaku*. **Ref:** 6, 658, 4722, 5048.

**19785 Sesguoiaflavone**

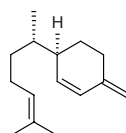
$C_{31}H_{20}O_9$ (536.50). **Source:** SAN JIAN SHAN *Cephalotaxus fortunei*. **Ref:** 2.

**19786 Sesquicarene**

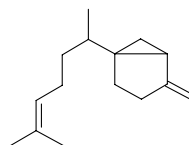
[20479-23-6] $C_{15}H_{24}$ (204.36). **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**19787 β -Sesquiphellandrene**

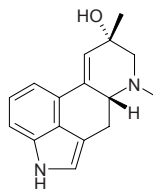
[20307-83-9] $C_{15}H_{24}$ (204.36). **Source:** GAN JIANG *Zingiber officinale*. **Ref:** 2.

**19788 Sesquisabinene**

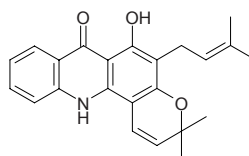
$C_{15}H_{24}$ (204.36). **Source:** HU JIAO *Piper nigrum*. **Ref:** 660.

**19789 Setoclavine**

$C_{16}H_{18}N_2O$ (254.33). **Source:** MAI JIAO *Claviceps purpurea*. **Ref:** 660.

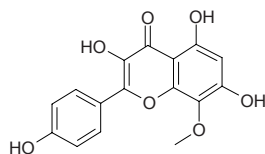
**19790 Severifoline**

$C_{23}H_{23}NO_3$ (361.44). **Pharm:** Cytotoxic (*in vitro*, Colon205, $ED_{50} > 25\mu\text{g/mL}$, inactive; Hep3B, $ED_{50} > 25\mu\text{g/mL}$, inactive; KB, $ED_{50} = 0.09\mu\text{g/mL}$). **Source:** DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). **Ref:** 3075.

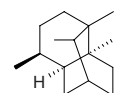


19791 Sexangularetin

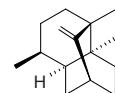
[571-74-4] C₁₆H₁₂O₇ (316.27). **Pharm:** Mutagen (*Salmonella typhimurium* TA100). **Source:** XI ZE LAN *Eupatorium gracile*. **Ref:** 658.

**19792 Seychellane**

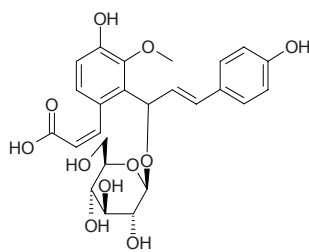
C₁₅H₂₆ (202.37). **Source:** SHI YE GAN SONG *Nardostachys jatamansi*. **Ref:** 660.

**19793 Seychellene**

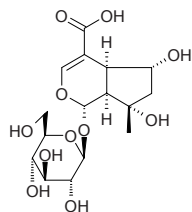
C₁₅H₂₄ (204.36). **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], SHI YE GAN SONG *Nardostachys jatamansi*. **Ref:** 660.

**19794 Shakuchirin**

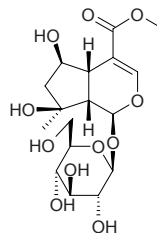
C₂₅H₂₈O₁₁ (504.50). mp 100~110°C. **Source:** HUO TAN MU CAO *Polygonum chinense*, TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*]. **Ref:** 6.

**19795 Shanzhiside**

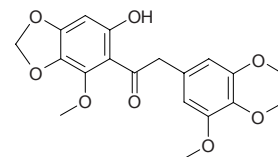
[29836-27-9] C₁₆H₂₄O₁₁ (392.36). mp 82~90°C; [α]_D²⁹ = -125.4° (c = 0.102, MeOH). **Pharm:** Cytotoxic inactive (Vero cells)^[5456]; COX-2 inhibitor inactive^[5456]. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 2, 5456.

**19796 Shanzhiside methyl ester**

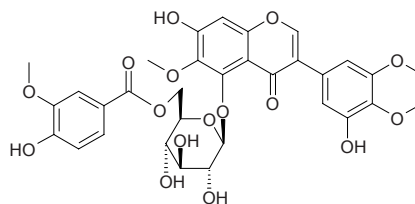
C₁₇H₂₆O₁₁ (406.39). [α]_D²⁷ = -105.2° (c = 0.104, MeOH). **Pharm:** Cytotoxic inactive (Vero cells); COX-2 inhibitor inactive. **Source:** HUA YE JIA DU JUAN *Barleria lupulina* (flower). **Ref:** 5456.

**19797 Sheganone**

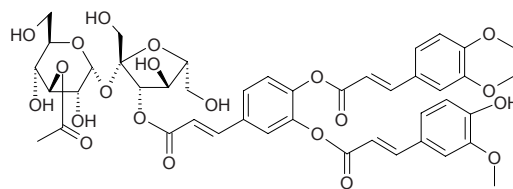
C₁₉H₂₀O₈ (376.37). **Source:** SHE GAN *Belamcanda chinensis*. **Ref:** 660.

**19798 Shegansu A**

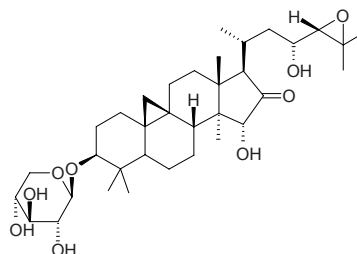
Irigenin-5-*O*-(6''-*O*-vanillin acid)-β-*D*-glucoside C₃₂H₃₂O₁₆ (672.60). Yellow crystals, mp 140~143°C, [α]_D¹⁴ = -17.3° (c = 0.22, EtOH). **Source:** SHE GAN *Belamcanda chinensis*. **Ref:** 9.

**19799 Shegansu C**

C₄₄H₄₈O₂₁ (912.86). Yellowish amorphous, [α]_D³¹ = +51.3° (c = 0.075, EtOH). **Source:** SHE GAN *Belamcanda chinensis*. **Ref:** 9.

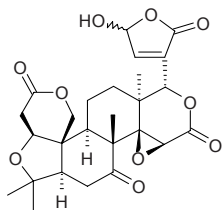
**19800 Shengmanol xyloside**

C₃₅H₅₆O₉ (620.83). **Source:** SAN MIAN DAO *Cimicifuga acerina*, XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 660.

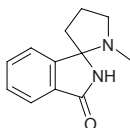


19801 Shihulimonin A

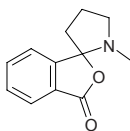
21-Hydroxy-23-oxo-20-en-limonin $C_{26}H_{30}O_{10}$ (502.525). Colorless acicular crystals, mp 284–288°C, $[\alpha]_D = -70^\circ$ ($c = 0.16$, MeOH). Source: SHI HU⁽³⁾ *Evodia rutaecarpa* var. *officinalis*. Ref: 2126.

**19802 Shihunidine**

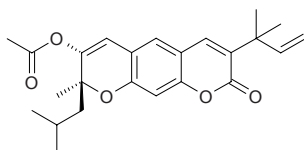
[135626-84-5] $C_{12}H_{14}N_2O$ (202.26). Colorless columnar crystals (C_6H_6), mp 173–174°C, $[\alpha]_D^{22} = 0^\circ$. Pharm: Na^+ , K^+ -ATP inhibitor (rat, microsome in kidney, strong action). Source: MEI HUA SHI HU *Dendrobium loddigesii*. Ref: 189.

**19803 Shihunine**

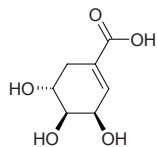
[4031-12-3] $C_{12}H_{13}NO_2$ (203.24). mp 79°C. Pharm: Na^+ , K^+ -ATP inhibitor (rat, microsome in kidney, strong action). Source: MEI HUA SHI HU *Dendrobium loddigesii*. Ref: 6, 189.

**19804 Shijiaocao lactone**

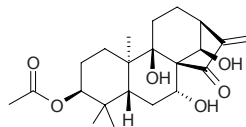
$C_{24}H_{28}O_5$ (396.49). mp 95–97°C. Source: SHI JIAO CAO *Boenninghausenia sessilicarpa*. Ref: 2495.

**19805 Shikimic acid**

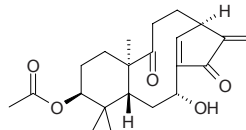
3,4,5-Trihydroxy-1-cyclohexene-1-carboxylic acid [138-59-0] $C_7H_{10}O_5$ (174.15). Pharm: Mutagen (strong). Source: DONG DU HUI *Illicium religiosum*, BAI GUO *Ginkgo biloba*, LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MIN WAN BA JIAO *Illicium minwanense*. Ref: 2, 315, 658, 660, 4544.

**19806 Shikoccidin**

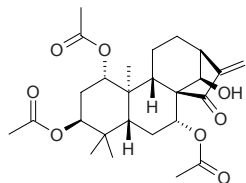
$C_{22}H_{32}O_6$ (392.50). mp 178–179°C, $[\alpha]_D^{27} = -3.2^\circ$ ($c = 0.20$, MeOH). Source: XI SI GUO XIANG CHA CAI *Isodon shikokiana* var. *occidentalis*. Ref: 4067.

**19807 Shikoccin**

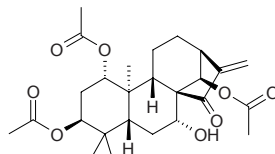
$C_{22}H_{30}O_5$ (374.48). mp 150–152°C, $[\alpha]_D^{25} = -37^\circ$ ($c = 0.24$, $CHCl_3$). Source: XI SI GUO XIANG CHA CAI *Isodon shikokiana* var. *occidentalis*. Ref: 4067.

**19808 Shikodokaurin A**

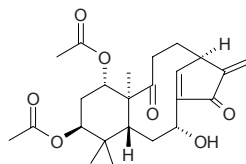
$C_{26}H_{36}O_8$ (476.57). mp 232–234°C. Source: JIAN XING SI GUO XIANG CHA CAI *Isodon shikokiana* var. *intermedius*. Ref: 4067.

**19809 Shikodokaurin B**

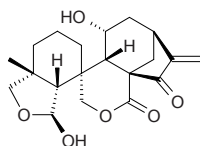
$C_{26}H_{36}O_8$ (476.57). Amorphous powder. Source: JIAN XING SI GUO XIANG CHA CAI *Isodon shikokiana* var. *intermedius*. Ref: 4067.

**19810 Shikodomedin**

$C_{24}H_{32}O_7$ (432.52). mp 193–194°C, $[\alpha]_D^{22} = -67.0^\circ$ ($c = 0.46$, $CHCl_3$). Source: JIAN XING SI GUO XIANG CHA CAI *Isodon shikokiana* var. *intermedius*. Ref: 4067.

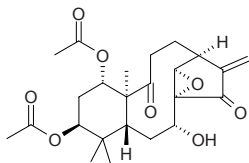
**19811 Shikodonin**

[66548-00-3] $C_{20}H_{26}O_6$ (362.43). mp 206–209°C. Pharm: Antineoplastic; pesticide (insects). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*, ZHONG JIAN XIANG CHA CAI *Isodon shikokianus* var. *intermedius*. Ref: 658, 4067.

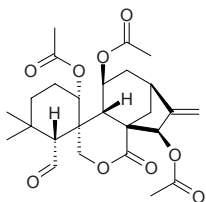


19812 Shikokiamedin

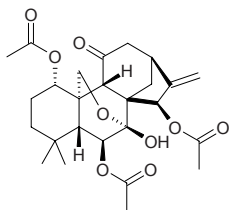
$C_{24}H_{32}O_8$ (448.52). Amorphous powder, $[\alpha]_D^{22} = -42.5^\circ$ ($c = 0.26$, $CHCl_3$). Source: JIAN XING SI GUO XIANG CHA CAI *Isodon shikokiana* var. *intermedius*. Ref: 4067.

**19813 Shikokianal acetate**

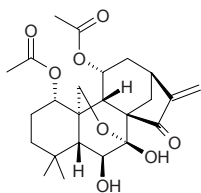
$C_{26}H_{34}O_9$ (490.56). mp 192~194°C, $[\alpha]_D^{22} = +89^\circ$ ($c = 0.26$, $CHCl_3$). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**19814 Shikokianidin**

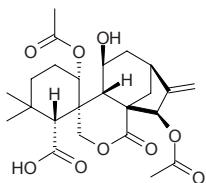
$C_{26}H_{34}O_9$ (490.56). mp 218~219°C, $[\alpha]_D = -109^\circ$ (C_5H_5N). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**19815 Shikokianin**

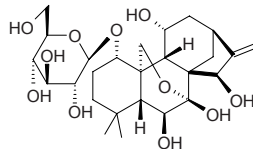
[24267-69-4] $C_{24}H_{32}O_8$ (448.52). mp 284~287°C, $[\alpha]_D^{25} = -38.7^\circ$ ($c = 0.2$, C_5H_5N). Source: MAO YE XIANG CHA CAI *Isodon japonica* [*Syn. Rabdosia japonica*], SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 575, 4067.

**19816 Shikokianoic acid**

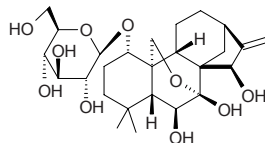
$C_{24}H_{32}O_9$ (464.52). mp 134~135°C, $[\alpha]_D^{22} = +3^\circ$ ($c = 0.35$, $CHCl_3$). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**19817 Shikokiaside A**

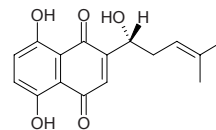
$C_{26}H_{40}O_{11}$ (528.60). mp 235~240°C, $[\alpha]_D^{25} = +0.5^\circ$ ($c = 0.8$, C_5H_5N). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**19818 Shikokiaside B**

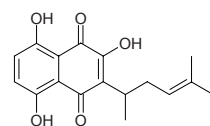
$C_{26}H_{40}O_{10}$ (512.60). mp 265~268°C, $[\alpha]_D^{25} = -15.3^\circ$ ($c = 1.2$, C_5H_5N). Source: SI GUO XIANG CHA CAI *Rabdosia shikokiana*. Ref: 4067.

**19819 Shikonin**

[517-89-5] $C_{16}H_{16}O_5$ (288.30). Pharm: Antibacterial (lactic acid bacteria and vinegar organism, EC = 20~30 µg/mL; *Bacillus coli*, *B. typhosus*, *Bacillus dysenteriae*, *Bacillus pyocyaneus* and *Staphylococcus aureus*); antineoplastic (mus, S_{180} , 10mg/(kg·d) ip, complete inhibition); antiprotozoal; platelet aggregation inhibitor; antiviral; used in treatment of amoebic dysentery (0.5~10 µg/mL); used in treatment of cirrhosis with ascites (animals, biotic prolonged rate = 92.5%); used in treatment of hepatitis (acute icteric, acute non-icteric, chronic); contracts blood vessels (inhibits ACh-induced relaxation on intact thoracic aorta, $IC_{50} = (0.244 \pm 0.039) \mu\text{mol/L}$, control 1,4-Naphthoquinone $IC_{50} = (1.50 \pm 0.17) \mu\text{mol/L}$)^[4916]; antioxidant; anti-inflammatory (modulator of cytokine network: blocks RANTES (regulated upon activation on normal T-cell expressed and secreted) and macrophage inflammatory protein (MIP-1a) binding to hmn monocytes, $IC_{50} = 3.6 \mu\text{mol/L}$ and $2.6 \mu\text{mol/L}$, respectively; blocks RANTES and MIP-1a binding to hmn embryonic kidney (HEK)/293 cells transfected with stable CC chemokine receptor-1 (CCR1) ($IC_{50} = 2.63 \mu\text{mol/L}$ and $2.57 \mu\text{mol/L}$, respectively); inhibits RANTES-induced CCR1 cell migration, without interfering with CCR1 cell migration induced by epidermal growth factor (EGF); appears to be a highly specific antagonist for the CCR1 receptor)^[4416]. Source: BAI GUO ZI CAO *Lithospermum officinale*, DIAN ZI CAO *Onosma paniculatum* (root: content = 0.02%^[5508]), JIA ZI CAO *Arnebia guttata* (root: mean content of 2 origins = 0.02%^[5508]), XIN ZANG JIA ZI CAO *Arnebia euchroma* (root: mean content of 3 origins = 0.14%^[5508]), ZI CAO *Lithospermum erythrorhizon* (root: mean content of 7 origins = 0.07%^[5508]). Ref: 2, 658, 660, 2193, 4416, 4916, 5501, 5508.

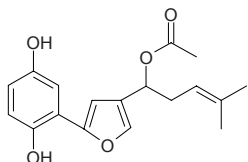
**19820 Shikonine**

$C_{17}H_{18}O_5$ (302.33). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2193.

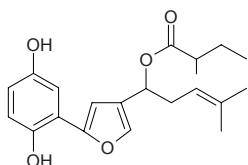


19821 Shikonofuran A

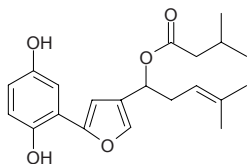
$C_{18}H_{20}O_5$ (316.36). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2193.

**19822 Shikonofuran B**

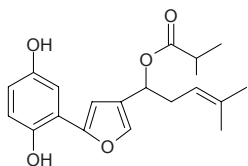
$C_{21}H_{26}O_5$ (358.44). Pharm: Prostaglandin biosynthesis inhibitor (20 μ g/mL, InRt = 72.5%). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 660, 2193.

**19823 Shikonofuran C**

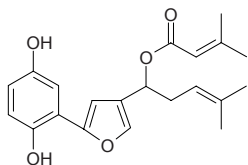
$C_{21}H_{26}O_5$ (358.44). Pharm: Prostaglandin biosynthesis inhibitor (20 μ g/mL, InRt = 72.5%). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 660, 2193.

**19824 Shikonofuran D**

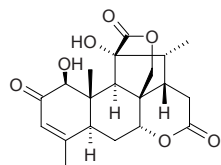
$C_{20}H_{24}O_5$ (344.41). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2193.

**19825 Shikonofuran E**

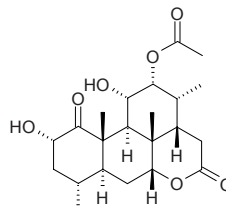
$C_{21}H_{24}O_5$ (356.42). Source: ZI CAO *Lithospermum erythrorhizon*. Ref: 2193.

**19826 Shinjudilactone**

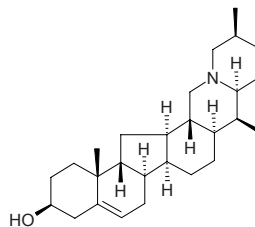
$C_{20}H_{24}O_7$ (376.41). Source: CHU BAI PI *Ailanthus altissima*. Ref: 660.

**19827 Shinjulactone K**

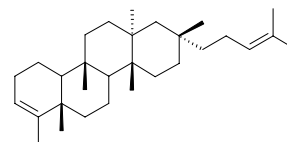
[94451-22-6] $C_{22}H_{32}O_7$ (408.49). Colorless prismatic crystals (chloroform-hexane), mp 135~139°C, $[\alpha]_D^{24} = +33^\circ$ ($c = 1.0$, chloroform). Pharm: Tuberculostatic (*in vivo*, *Mycobacterium tuberculosis* H37Rv, 12.5 μ g/mL, InRt = 19%). Source: CHU BAI PI *Ailanthus altissima*. Ref: 934, 996.

**19828 Shinonomenine**

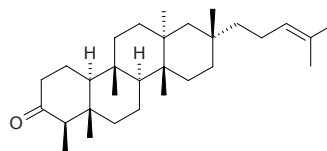
$C_{27}H_{43}NO$ (397.65). Source: XI BEI MU *Fritillaria imperialis* (bulb). Ref: 4217.

**19829 Shiona-3,21-diene**

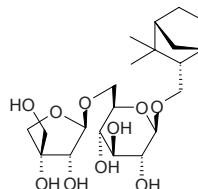
$C_{30}H_{50}$ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**19830 Shionone**

[10376-48-4] $C_{30}H_{50}O$ (426.73). mp 161~162°C. Source: ZI WAN *Aster tataricus* (root and rhizome: mean content of 25 origins = 0.131%). Ref: 6, 5508.

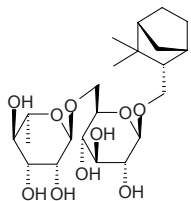
**19831 Shionoside A**

$C_{21}H_{36}O_{10}$ (448.52). Source: ZI WAN *Aster tataricus*. Ref: 660.

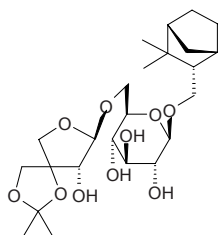


19832 Shionoside B

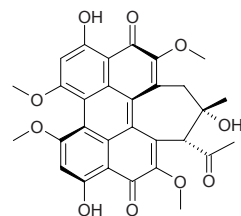
$C_{22}H_{38}O_{10}$ (462.54). Source: ZI WAN *Aster tataricus*. Ref: 660.

**19833 Shionoside C**

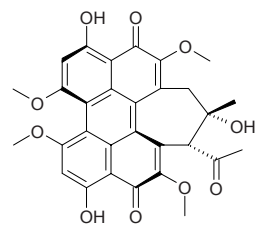
$C_{24}H_{40}O_{10}$ (488.58). Source: ZI WAN *Aster tataricus*. Ref: 660.

**19834 Shiraiachrome A**

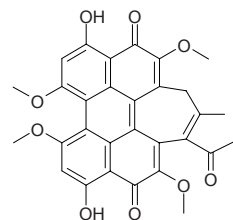
$C_{30}H_{26}O_{10}$ (546.54). Source: ZHU XUANG *Shiraiia bambusicola*. Ref: 660.

**19835 Shiraiachrome B**

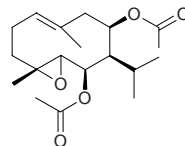
$C_{30}H_{26}O_{10}$ (546.54). Source: ZHU XUANG *Shiraiia bambusicola*. Ref: 660.

**19836 Shiraiachrome C**

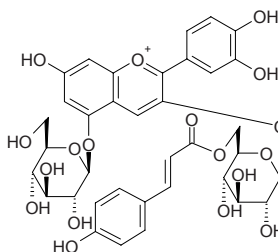
$C_{30}H_{24}O_9$ (528.52). Source: ZHU XUANG *Shiraiia bambusicola*. Ref: 660.

**19837 Shiromodiol diacetate**

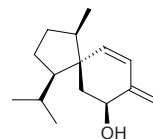
$C_{19}H_{30}O_5$ (338.45). Pharm: Insect antifeedant. Source: SAN YE DIAO ZHANG *Lindera triloba*. Ref: 658.

**19838 Shisonin**

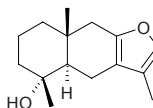
$C_{36}H_{37}O_{18}^+$ (757.69). Source: QIE ZI *Solanum melongena*, *Perilla* spp. Ref: 660.

**19839 Shizuka-acoradienol**

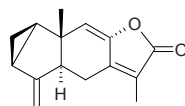
$C_{15}H_{24}O$ (220.36). Source: YIN XIAN CAO *Chloranthus japonicus*. Ref: 660.

**19840 Shizukafuranol**

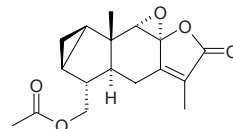
$C_{15}H_{22}O_2$ (234.34). Source: JIN SU LAN *Chloranthus spicatus*, YIN XIAN CAO *Chloranthus japonicus*. Ref: 660.

**19841 Shizukanolide B**

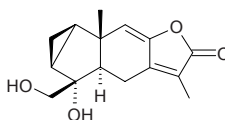
$C_{15}H_{16}O_2$ (228.29). Source: YIN XIAN CAO *Chloranthus japonicus*. Ref: 660.

**19842 Shizukanolide D**

$C_{17}H_{20}O_5$ (304.35). Source: YIN XIAN CAO *Chloranthus japonicus*. Ref: 660.

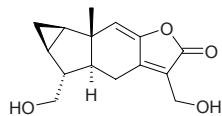
**19843 Shizukanolide E**

$C_{15}H_{18}O_4$ (262.31). Source: JI JI *Chloranthus serratus*, YIN XIAN CAO *Chloranthus japonicus*. Ref: 660, 1521.

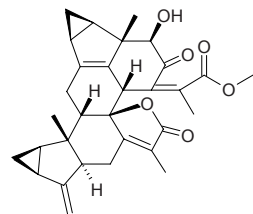


19844 Shizukanolide F

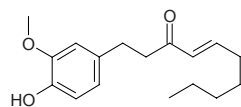
$C_{15}H_{18}O_4$ (262.31). **Source:** JI JI *Chloranthus serratus*, YIN XIAN CAO *Chloranthus japonicus*. **Ref:** 660, 1521.

**19845 Shizukaol A**

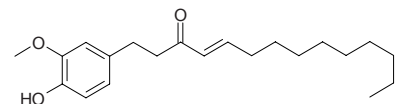
$C_{31}H_{34}O_6$ (5002.61). **Source:** YIN XIAN CAO *Chloranthus japonicus*. **Ref:** 660.

**19846 6-Shogaol**

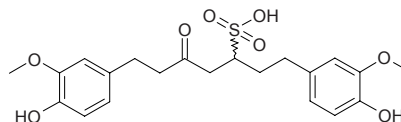
Shogaol; *trans*-6-Shogaol [555-66-8] $C_{17}H_{24}O_3$ (276.38). Grey-yellow oil. **Pharm:** Antemetic (frog, 100mg/kg); antihypertensive (rat, 0.5mg/mL iv); free radical scavenger; enhances myocardial contractility and raises heart rate (*in vitro* rat heart, 3.6 μ mol/L); antihistamine (inhibits histamine release, rat peritoneal giant cells, caused by calcium); inhibits mesenteric venous contraction (mus, caused by arterenol and PGF₂); platelet aggregation inhibitor (due to arachidonic acid, *in vitro*, IC₅₀ = 2.23 μ mol/L); inhibits rat skin passive allergy; 5-lipoxygenase inhibitor; cyclo-oxygenase inhibitor; prostaglandin biosynthese inhibitor (IC₅₀ = 1.6 μ mol/L); insect antifeedant (termites, 1000mg/L); irritant; mutagen (TA100, TA535); nematocide; antagonist to body temperature reduction caused by 5-HT (mus, orl, 10mg/kg); molluscicide (toxic to shellfish); CYP3A4 inhibitor (IC₅₀ = 77.7 μ mol/L, control Ketoconazole, IC₅₀ = 0.245 μ mol/L)^[4669]; CYP2D6 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Quinidine, IC₅₀ = 0.078 μ mol/L)^[4669]. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.000047%dw)^[4669], GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*. **Ref:** 2, 900, 4669.

**19847 trans-10-Shogaol**

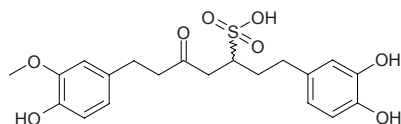
$C_{21}H_{32}O_3$ (332.49). **Pharm:** CYP3A4 inhibitor (IC₅₀ = 90.2 μ mol/L, control Ketoconazole IC₅₀ = 0.24 μ mol/L); CYP2D6 inhibitor (IC₅₀ = 45.7 μ mol/L, control Quinidine IC₅₀ = 0.068 μ mol/L). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome). **Ref:** 4449.

**19848 Shogasulfonic acid A**

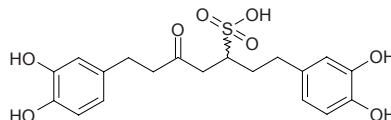
5-Sulfonyl-1,7-bis(4-hydroxy-3-methoxyphenyl)-heptan-3-one $C_{21}H_{26}O_8S$ (438.50). Pale yellowish amorphous powder, mp 205°C (dec), $[\alpha]_D^{21} = -0.5^\circ$ ($c = 2.00$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

**19849 Shogasulfonic acid B**

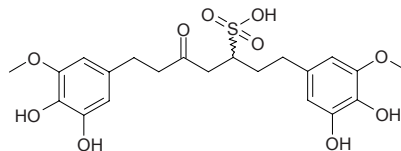
5-Sulfonyl-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxyphenyl)-heptan-3-one $C_{20}H_{24}O_8S$ (424.47). Pale green oil, $[\alpha]_D^{21} = -1.0^\circ$ ($c = 1.60$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

**19850 Shogasulfonic acid C**

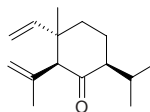
5-Sulfonyl-1,7-bis(3,4-dihydroxyphenyl)-heptan-3-one $C_{19}H_{22}O_8S$ (410.45). Pale yellowish oily substance, $[\alpha]_D^{21} = -5.6^\circ$ ($c = 0.25$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

**19851 Shogasulfonic acid D**

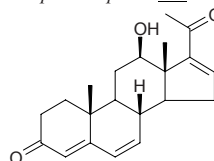
5-Sulfonyl-1,7-bis(4,5-dihydroxy-3-methoxyphenyl)-heptan-3-one $C_{21}H_{26}O_{10}S$ (470.50). Pale yellowish crystalline powder, mp 154~158°C (dec), $[\alpha]_D^{21} = -0.3^\circ$ ($c = 1.00$, MeOH). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3361.

**19852 Shyobunone**

$C_{13}H_{24}O$ (220.36). **Source:** BAI CHANG *Acorus calamus*. **Ref:** 6.

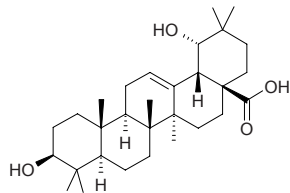
**19853 S-I**

$C_{21}H_{26}O_3$ (326.44). mp 210~212°C, $[\alpha]_D = +69.5^\circ$. **Source:** XIANG JIA PI *Periploca septium*. **Ref:** 2498.

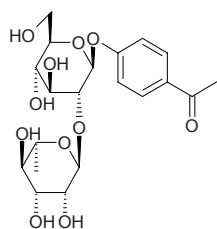


19854 Siaresinolic acid

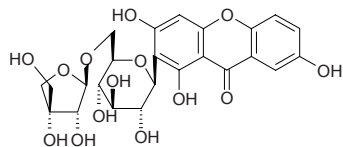
$C_{30}H_{48}O_4$ (472.71). mp 274~275°C. Source: YUE NAN AN XI XIANG *Styrax tonkinensis*. Ref: 6, 660.

**19855 Sibiricaphenone**

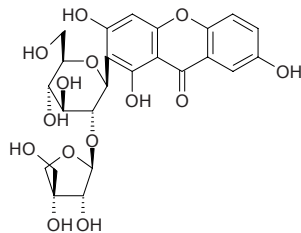
$C_{20}H_{28}O_{11}$ (444.44). Amorphous powder, $[\alpha]_D^{23} = -62^\circ$ ($c = 0.97$, MeOH). Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19856 Sibiricaxanthone A**

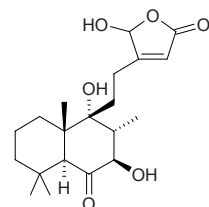
$C_{24}H_{26}O_{14}$ (538.47). Yellow amorphous powder; $[\alpha]_D^{23} = +312^\circ$ ($c = 0.85$, MeOH). Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19857 Sibiricaxanthone B**

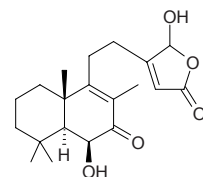
$C_{24}H_{26}O_{14}$ (538.47). Yellow amorphous powder; $[\alpha]_D^{23} = -11^\circ$ ($c = 1.44$, MeOH). Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19858 Sibiricinone A**

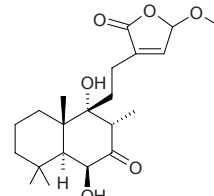
$C_{20}H_{30}O_6$ (366.46). Colorless oil, $[\alpha]_D^{20} = +18.4^\circ$ ($c = 0.64$, $CHCl_3$). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts: yield = 0.00022%). Ref: 4744.

**19859 Sibiricinone B**

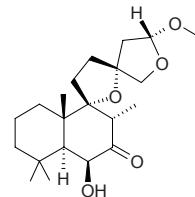
$C_{20}H_{28}O_5$ (348.44). Colorless oil, $[\alpha]_D^{20} = +4.4^\circ$ ($c = 0.18$, $CHCl_3$). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts: yield = 0.00026%). Ref: 4744.

**19860 Sibiricinone C**

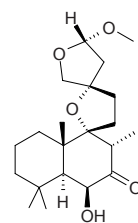
$C_{21}H_{32}O_6$ (380.49). Colorless oil, $[\alpha]_D^{20} = +4.7^\circ$ ($c = 1.58$, $CHCl_3$). Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts: yield = 0.00056%). Ref: 4744.

**19861 Sibiricinone D**

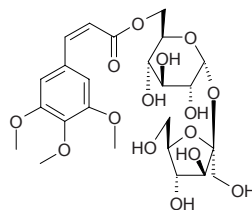
$C_{21}H_{34}O_5$ (366.5). Colorless oil. Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4744.

**19862 Sibiricinone E**

$C_{21}H_{34}O_5$ (366.5). Colorless oil. Source: XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). Ref: 4744.

**19863 Sibiricose A₂**

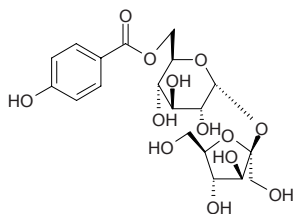
$C_{24}H_{34}O_{15}$ (562.53). Amorphous powder; $[\alpha]_D^{23} = +19^\circ$ ($c = 0.56$, MeOH). Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.



19864 Sibiricose A₃

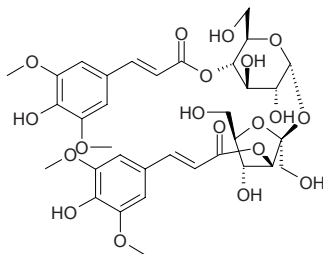
C₁₉H₂₆O₁₃ (462.41). Amorphous powder; $[\alpha]_D^{23} = +29^\circ$ ($c = 1.30$, MeOH).

Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19865 Sibiricose A₄**

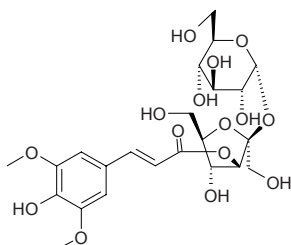
C₃₄H₄₂O₁₉ (754.70). Amorphous powder; $[\alpha]_D^{23} = -23^\circ$ ($c = 1.13$, MeOH).

Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19866 Sibiricose A₆**

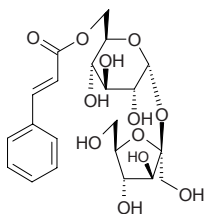
C₂₃H₃₂O₁₅ (548.50). Amorphous powder; $[\alpha]_D^{23} = -2^\circ$ ($c = 0.72$, MeOH).

Source: XI BO LI YA YUAN ZHI *Polygala sibirica*. Ref: 691.

**19867 Sibirioside A**

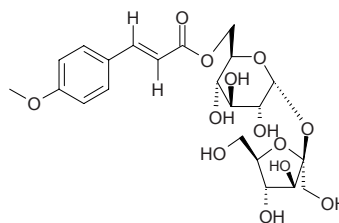
C₂₁H₂₈O₁₂ (472.45). Colorless prismatic crystals, mp 110–112°C, $[\alpha]_D =$

-29.6° ($c = 0.20$, methanol). Source: ZHAN LONG JIAN *Veronicastrum sibiricum*. Ref: 337.

**19868 Sibirioside B**

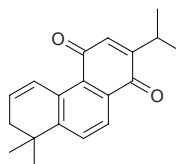
C₂₂H₃₀O₁₃ (502.48). Colorless prismatic crystals, mp 108–110°C, $[\alpha]_D =$

-20.18° ($c = 0.34$, methanol). Source: ZHAN LONG JIAN *Veronicastrum sibiricum*. Ref: 337.

**19869 Sibiriquinone A**

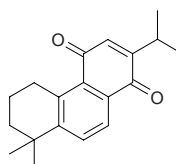
C₁₉H₂₀O₂ (280.37). Red solid, $[\alpha]_D^{25} = +16.6^\circ$ ($c = 0.2$, MeOH). Pharm:

Immunosuppressant (lymphocyte transformation assay, control Concanavalin A, 5µg/mL, InRt = -12%, 20µg/mL, InRt = 32%, 80µg/mL, InRt = 41%; control Dexamethasone, 50µg/mL, InRt = 63%). Source: ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts). Ref: 4260.

**19870 Sibiriquinone B**

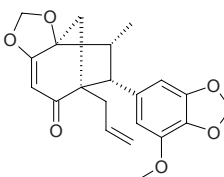
C₁₉H₂₂O₂ (282.39). Red solid, $[\alpha]_D^{25} = +7.8^\circ$ ($c = 0.2$, MeOH). Pharm:

Immunosuppressant (lymphocyte transformation assay, control Concanavalin A, 5µg/mL, InRt = 12%, 20µg/mL, InRt = 35%, 80µg/mL, InRt = 52%; control Dexamethasone, 50µg/mL, InRt = 63%). Source: ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts). Ref: 4260.

**19871 Sibyllenone**

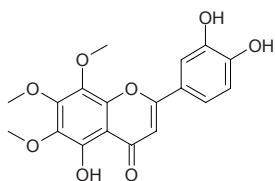
C₂₁H₂₂O₆ (370.41). Colorless crystals, mp 160°C, $[\alpha]_D^{23} = 0^\circ$ ($c = 0.0021$,

CHCl₃). Pharm: Anti-inflammatory (5-LOX inhibitor, IC₅₀ = 18.6µmol/L; COX-1 inhibitor, > 500µmol/L, inactive, control Indomethacin, IC₅₀ = 3.1µmol/L, COX-2 inhibitor, > 500µmol/L, inactive, Indomethacin, IC₅₀ = 188µmol/L). Source: NAN FEI ZHANG GUI *Ocotea bullata* (stem cortex). Ref: 3971.

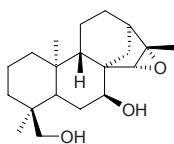


19872 Sideritiflavone

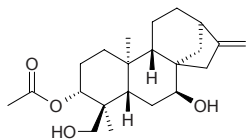
[70360-12-2] C₁₈H₁₆O₈ (360.32). Yellow columnar crystals, mp 223~226°C (MeOH). Source: DONG LING CAO *Rabdosia rubescens* (stem and leaf). Ref: 1521, 4906.

**19873 Sideroxol**

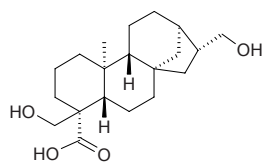
C₂₀H₃₂O₃ (320.48). Colorless needles (CHCl₃). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**19874 Sidol**

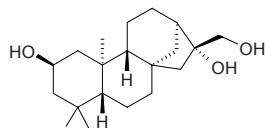
C₂₂H₃₄O₄ (362.51). White resin (CHCl₃). Source: *Sideritis ozturkii* (aerial parts). Ref: 3827.

**19875 Siegesbeckic acid**

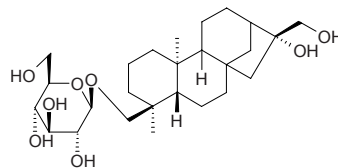
C₂₀H₃₂O₄ (336.48). mp 251~251.5°C, [α]_D²⁶ = -108° (c = 0.277, C₅H₅N). Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XI XIAN *Siegesbeckia orientalis*. Ref: 9, 660.

**19876 Siegesbeckiol**

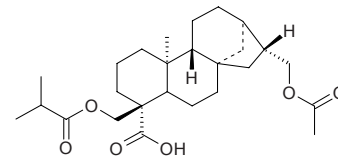
C₂₀H₃₄O₃ (322.49). mp 271~273°C, [α]_D²⁸ = -27.6° (c = 0.290, C₅H₅N), mp 268~269°C, [α]_D²² = -26.7° (c = 0.74, CHCl₃). Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XI XIAN *Siegesbeckia orientalis*, DAN HUANG XIANG CHA CAI *Isodon flavidus*. Ref: 9, 660, 4067.

**19877 Siegesbeckioside**

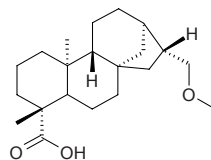
C₂₆H₄₄O₈ (484.64). mp 276.5~277.5°C, [α]_D²⁵ = -29.2° (c = 0.290, C₅H₅N). Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 9.

**19878 Siegesetheric acid I**

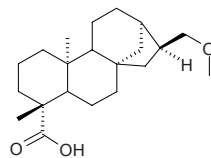
ent-17-Acetoxy-18-isobutyryloxy-16(α)-kauran-19-oic acid C₂₆H₄₀O₆ (448.61). White acicular crystals (acetic ester), mp 152~153°C. Source: XI XIAN *Siegesbeckia orientalis*. Ref: 377.

**19879 Siegesetheric acid II**

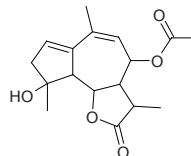
ent-17-Ethoxy-16(α)-kauran-19-oic acid C₂₂H₃₆O₃ (348.53). White lamellar crystals (acetic ester), mp 202~204°C. Source: XI XIAN *Siegesbeckia orientalis*. Ref: 377.

**19880 Siegesmethyletheric acid**

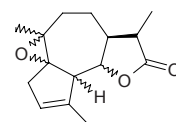
C₂₁H₃₄O₃ (334.5). Colorless acicular crystals (acetone) mp 231~232°C. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 798.

**19881 Sieversin**

C₁₇H₂₂O₅ (306.36). mp 128~131°C. Source: BAI HAO *Artemisia sieversiana*. Ref: 6.

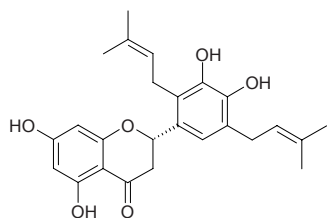
**19882 Sieversinin**

C₁₅H₂₀O₃ (248.32). mp 141~142°C. Source: BAI HAO *Artemisia sieversiana*. Ref: 6.

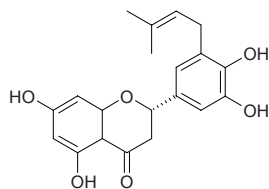


19883 Sigmoidin A

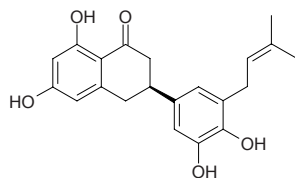
$C_{26}H_{30}O_5$ (422.53). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (5.8 \pm 0.6) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (5.9 \pm 1.1) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.01) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]; antioxidant (DPPH scavenger, $100 \mu\text{mol/L}$, InRt = 93%, control Quercetin 3-*O*-glucoside, InRt = 92%)^[4932]; LTB₄ production inhibitor (rat peritoneal leukocytes, $100 \mu\text{mol/L}$, InRt = 95%, $IC_{50} = 31 \mu\text{mol/L}$, control Apigenin $IC_{50} = 14 \mu\text{mol/L}$)^[4932]; anti-inflammatory (*in vivo*, mouse ear edema induced by phospholipase A2, 5mg/kg, orl, InRt = 20%, Cyproheptadine, InRt = 74%)^[4932]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), AI SI XING CI TONG *Erythrina sigmoidea*. **Ref:** 1521, 3879, 4932.

**19884 Sigmoidin B**

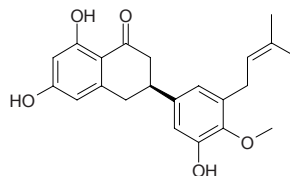
$C_{20}H_{22}O_6$ (358.39). **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 660.

**19885 Sigmoidin B**

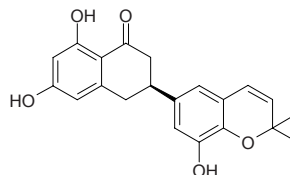
$C_{21}H_{22}O_5$ (354.41). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (8.1 \pm 2.2) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (9.3 \pm 2.7) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.01) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]; antioxidant (DPPH scavenger, $100 \mu\text{mol/L}$, InRt = 86%, control Quercetin 3-*O*-glucoside, InRt = 92%)^[4932]; LTB₄ production inhibitor (rat peritoneal leukocytes, $100 \mu\text{mol/L}$, InRt = 44%, control Apigenin $IC_{50} = 14 \mu\text{mol/L}$)^[4932]; anti-inflammatory (*in vivo*, mouse ear edema induced by phospholipase A2, 5mg/kg, orl, InRt = 59%, cyproheptadine, InRt = 74%)^[4932]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), AI SI XING CI TONG *Erythrina sigmoidea*. **Ref:** 1521, 3879, 4932.

**19886 Sigmoidin B-4'-methyl ether**

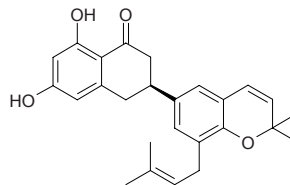
$C_{22}H_{24}O_5$ (368.43). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (13.0 \pm 2.0) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (12.7 \pm 2.9) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.01) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), BO SHI CI TONG *Erythrina berteroaana*. **Ref:** 1521, 3879.

**19887 Sigmoidin C**

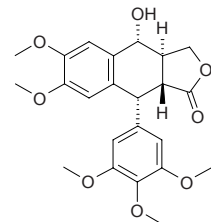
$C_{21}H_{20}O_5$ (352.39). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (17.8 \pm 3.6) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (15.8 \pm 3.9) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.01) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), AI SI XING CI TONG *Erythrina sigmoidea*. **Ref:** 1521, 3879.

**19888 Sigmoidin E**

$C_{26}H_{28}O_4$ (404.51). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, $IC_{50} = (9.1 \pm 2.3) \mu\text{g/mL}$, control Chloroquine, $IC_{50} = (0.009 \pm 0.002) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.04 \pm 0.01) \mu\text{g/mL}$; *Plasmodium falciparum* W2, $IC_{50} = (11.8 \pm 2.5) \mu\text{g/mL}$, Chloroquine, $IC_{50} = (0.08 \pm 0.01) \mu\text{g/mL}$, Quinine, $IC_{50} = (0.21 \pm 0.01) \mu\text{g/mL}$)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem cortex), AI SI XING CI TONG *Erythrina sigmoidea*. **Ref:** 1521, 3879.

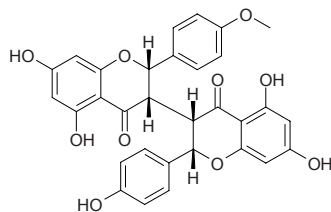
**19889 Sikkimotoxin**

[18651-67-7] $C_{23}H_{26}O_8$ (430.46). mp 120°C. **Pharm:** Antineoplastic (cutaneous carcinoma); toxin (used only externally in clinic). **Source:** TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*]. **Ref:** 5.

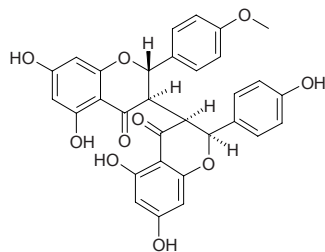


19890 Sikokianin A

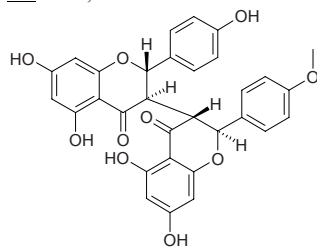
[106293-99-6] C₃₁H₂₄O₁₀ (556.53). Needles (MeOH aq.), mp 230–232°C, [α]_D = +150° (c = 0.74, MeOH). **Pharm:** Antimitotic and antifungal (*Pyricularia oryzae*, 400µg/mL, middle inhibition)^[4476]. **Source:** LANG DU *Stellera chamaejasme*, SI GUO YAO HUA *Wikstroemia sikokiana*. **Ref:** 2542, 4476.

**19891 Sikokianin B**

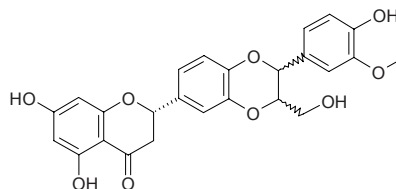
[106235-33-0] C₃₁H₂₄O₁₀ (556.53). Amorphous powder, [α]_D³⁰ = +199.7° (c = 1.0, MeOH). **Pharm:** Antimalarial (chloroquine-resistant K1 strain of *Plasmodium falciparum*, IC₅₀ = 0.54µg/mL, control Chloroquine, IC₅₀ = 0.56µg/mL, Artemisinin, IC₅₀ = 0.0097µg/mL; drug-sensitive FCR3 strain, IC₅₀ = 0.54µg/mL, control Chloroquine, IC₅₀ = 0.014µg/mL, Artemisinin, IC₅₀ = 0.0068µg/mL)^[4926]; cytotoxic (MRC-5 cells, IC₅₀ = 22.54µg/mL, control Chloroquine, IC₅₀ = 18.54µg/mL, Artemisinin, IC₅₀ = 45.12µg/mL)^[4926]; NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , IC₅₀ = 50–60µmol/L, control Quercetin, IC₅₀ = 24.8µmol/L)^[2541]. **Source:** LIAO GE WANG GEN *Wikstroemia indica*. **Ref:** 2541, 4926.

**19892 Sikokianin C**

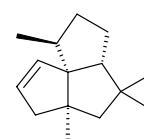
[159813-69-1] C₃₁H₂₄O₁₀ (556.53). Amorphous powder, [α]_D³⁰ = +3.1° (c = 1.0, MeOH). **Pharm:** Antimalarial (chloroquine-resistant K1 strain of *Plasmodium falciparum*, IC₅₀ = 0.56µg/mL, control Chloroquine, IC₅₀ = 0.56µg/mL, Artemisinin, IC₅₀ = 0.0097µg/mL; drug-sensitive FCR3 strain, IC₅₀ = 0.34µg/mL, control Chloroquine, IC₅₀ = 0.014µg/mL, Artemisinin, IC₅₀ = 0.0068µg/mL)^[4926]; cytotoxic (MRC-5 cells, IC₅₀ = 11.21µg/mL, control Chloroquine, IC₅₀ = 18.54µg/mL, Artemisinin, IC₅₀ = 45.12µg/mL)^[4926]; NO production inhibitor (mus, macrophage-like cell line, RAW264.7, activated by LPS and recombinant mouse IFN- γ , IC₅₀ = 50–60µmol/L, control Quercetin, IC₅₀ = 24.8µmol/L)^[2541]. **Source:** LIAO GE WANG GEN *Wikstroemia indica*. **Ref:** 2541, 4926.

**19893 Silandrin**

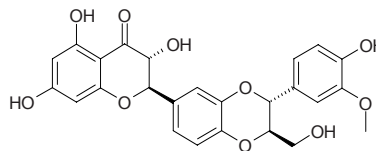
[70815-32-6] C₂₅H₂₂O₉ (466.45). **Pharm:** Antihepatotoxin. **Source:** SHUI FEI JI *Silybum marianum*. **Ref:** 658.

**19894 Silphinene**

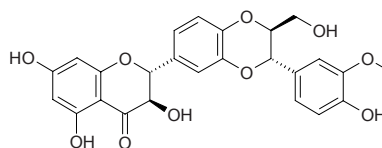
C₁₅H₂₄ (204.36). **Pharm:** Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100µg/cm² mixture with modhephene and isocomene, oedema = (4.9±0.4)mg, p<0.05, reduction = 37%, Indomethacin oedema = (3.4±0.3)mg, p<0.05, reduction = 56%). **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 4985.

**19895 Silybin**

Silybin A; Silibinin [22888-70-6] C₂₅H₂₂O₁₀ (482.45). Yellowish flat crystals (MeOH–H₂O), mp 162–163°C, [α]_D = +20° (c = 0.21, acetone); soluble in acetone, methanol, acetic ester, ethanol, slightly soluble in chloroform, insoluble in water.^[5507] **Pharm:** Antihepatotoxin; used in treatment of hepatitis; LOX inhibitor^[4415]; COX inhibitor^[4415]; anti-inflammatory (NO production inhibitor, peritoneal macrophages in LPS-treated mouse, reduces NO production and iNOS gene expression, by inhibiting NF- κ B)^[4415]; LD₅₀ (mus, iv) = (1056±35)mg/kg. **Source:** SHUI FEI JI *Silybum marianum* (dried ripe fruit: content = 1.31%^[5508]). **Ref:** 658, 4415, 4719, 5507, 5508.

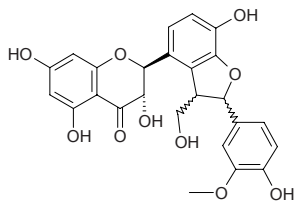
**19896 Silybin B**

C₂₅H₂₂O₁₀ (482.45). Yellow grain crystals (MeOH–H₂O), mp 158–160°C, [α]_D = –1.07° (c = 0.28, acetone). **Source:** SHUI FEI JI *Silybum marianum* (seed). **Ref:** 4719.

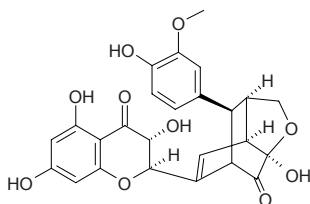


19897 Silychristin

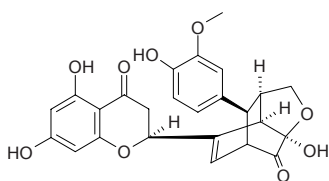
[33889-69-9] C₂₅H₂₂O₁₀ (482.45). mp 174~176°C (water), [α]_D²³ = +81.4° (pyridine). **Pharm:** Plant growth inhibitor; used in treatment of hepatitis; LOX inhibitor^[4415]; COX inhibitor^[4415]. **Source:** SHUI FEI JI *Silybum marianum*. **Ref:** 661, 658, 4415.

**19898 Silydianin**

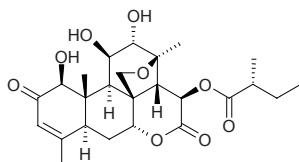
[29782-68-1] C₂₅H₂₂O₁₀ (482.45). mp 191°C, [α]_D²⁴ = +175° (acetone). **Pharm:** Antihepatotoxin; peroxidase inhibitor; plant growth inhibitor; LOX inhibitor^[4415]; COX inhibitor^[4415]. **Source:** SHUI FEI JI *Silybum marianum*. **Ref:** 661, 4415.

**19899 Silymonin**

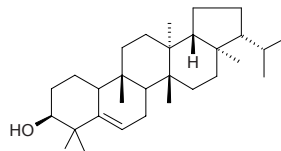
C₂₅H₂₂O₉ (466.45). **Source:** SHUI FEI JI *Silybum marianum*. **Ref:** 660.

**19900 Simalikalactone D**

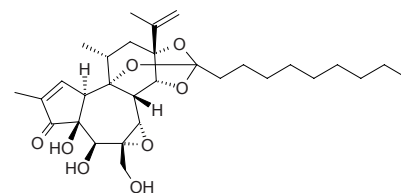
[35321-80-3] C₂₅H₃₄O₉ (478.54). mp 228~230°C. **Pharm:** Antiamebic; anti-neoplastic (mus P₃₈₈, 1mg/kg, biotic prolonged rate = (65~75)%, KB *in vitro*, ED₅₀ = 0.01~0.001 μg/mL); antimalarial (*Plasmodium falciparum*, CIC = 0.002 μg/mL); antiviral. **Source:** FEI ZHOU KU MU *Quassia africana*, KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], MEI ZHOU KU MU *Quassia amara*. **Ref:** 5, 658.

**19901 Simiarenol**

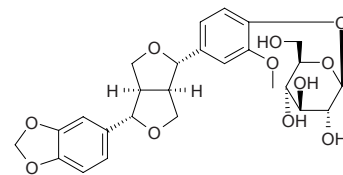
C₃₀H₅₀O (426.73). **Source:** BAI MAO GEN⁽¹⁾ *Imperata cylindrica* var. *major*, DONG GUA PI *Benincasa hispida*, DONG GUA ZI *Benincasa hispida*, LIU JI NU *Artemisia anomala* (whole herb with flowers), YI DIAN HONG *Emilia sonchifolia*. **Ref:** 660.

**19902 Simplexin**

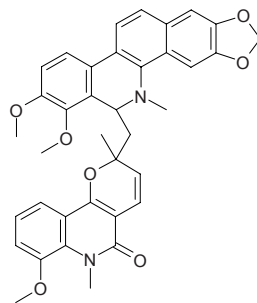
Wikstrotoxin [1404-62-2] C₃₀H₄₄O₈ (532.68). **Pharm:** Causes pulmonary heart disease (taken long-term); causes St. George disease (ox). **Source:** LANG DU *Stellera chamaejasme*, SHAN DI YAO HUA *Wikstroemia monticola*, DAN ZHI DAO HUA *Pimelea simplex*. **Ref:** 658, 660, 1521.

**19903 Simplexoside**

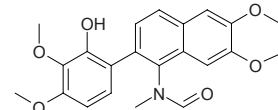
C₂₆H₃₀O₁₁ (518.53). **Pharm:** Antioxidant; CNS depressant. **Source:** DAN JUE CHUANG *Justicia simplex*. **Ref:** 658.

**19904 Simlanoquinoline**

[155416-22-1] C₃₇H₃₄N₂O₇ (618.69). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO GEN *Zanthoxylum simulans*. **Ref:** 2176.

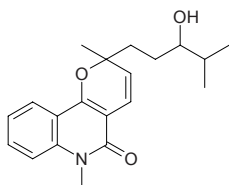
**19905 Simlansamide**

[176713-29-4] C₂₂H₂₃NO₆ (397.43). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO GEN *Zanthoxylum simulans*. **Ref:** 1521, 2176.

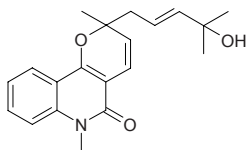


19906 Simulansine

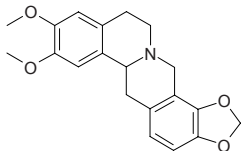
[176520-66-4] C₂₀H₂₅NO₃ (327.43). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO GEN *Zanthoxylum simulans*. **Ref:** 2176.

**19907 Simulenoline**

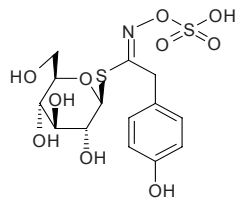
C₂₀H₂₃NO₃ (325.41). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO GEN *Zanthoxylum simulans*. **Ref:** 2176.

**19908 Sinactine**

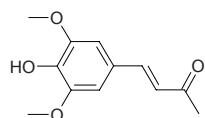
C₂₀H₂₁NO₄ (339.39). mp (-) 175°C, (±) 168°C. **Source:** LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], QING FENG TENG *Sinomenium acutum*. **Ref:** 6.

**19909 Sinalbine**

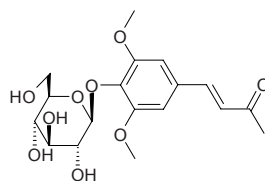
Inapine glucosinalbate C₁₄H₁₉NO₁₀S₂ (425.44). mp 139°C (anhydrate). **Pharm:** Antifungal (*Trichophyton* sp., *Oidium porriginis*); irritant. **Source:** BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*], BAN LAN GEN *Isatis indigotica*, BO NIANG HAO *Descurainia sophia*, LAI FU ZI *Raphanus sativus*, TING LI ZI *Lepidium apetalum* [Syn. *Lepidium micranthum*], YE OU BAI JIE *Sinapis arvensis*. **Ref:** 6, 658, 660.

**19910 Sinapaldehyde**

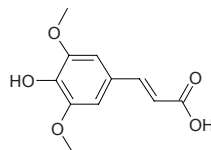
[4206-58-0] C₁₁H₁₂O₄ (208.22). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; detumescent (rat ears); prostaglandin biosynthetase inhibitor. **Source:** HEI HU TAO *Juglans nigra*, HOU PO *Magnolia officinalis*, TAI WAN FU RONG *Hibiscus taiwanensis*, YIN BAI QI *Acer saccharinum*, *Quercus* sp., *Aglaia ponapensis*. **Ref:** 2, 658, 2529, 5038.

**19911 Sinapaldehyde glucoside**

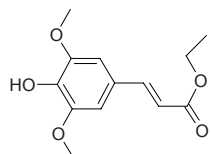
C₁₇H₂₂O₉ (370.36). **Source:** JIU BI YING *Ilex rotunda*. **Ref:** 660.

**19912 Sinapic acid**

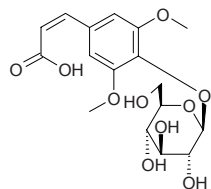
C₁₁H₁₂O₅ (224.22). mp 192°C. **Pharm:** Antibacterial; antifungal; antihepatotoxin. **Source:** DI SHAO GUA *Cynanchum thesioides*, HUI XIANG JING YE *Foeniculum vulgare*, JIA DU XING CAI *Lepidium sativum*, JIE ZI *Brassica juncea*, LAO SHU GUA *Capparis spinosa*, LI MENG GEN *Citrus limonia*, LI MENG YE *Citrus limonia*, NAN FANG OU SHI NAN *Erica australis*, NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, OU XI XIN *Asarum europaeum*, PU⁽²⁾ TAO *Vitis vinifera*, SI ZI TAN *Pterocarpus santalinus*, YANG CONG *Allium cepa*, YE JIE *Brassica oleracea*, YI ZHU QIAN MA *Urtica dioica*, occurs in many plants (a common constit. of plants and fruits. Found by Bate-Smith in 26% of investigated dicotyledonous and 57% of monocotyledonous spp.). **Ref:** 6, 658, 660, 1521.

**19913 Sinapic acid ethyl ester**

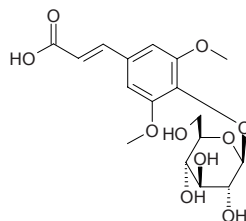
C₁₃H₁₆O₅ (252.27). **Source:** BO NIANG HAO *Descurainia Sophia* (seeds). **Ref:** 2548.

**19914 cis-Sinapic acid glucoside**

C₁₇H₂₂O₁₀ (386.36). **Source:** BO NIANG HAO *Descurainia sophia* **Ref:** 660.

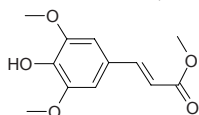
**19915 trans-Sinapic acid glucoside**

C₁₇H₂₂O₁₀ (386.36). **Source:** BO NIANG HAO *Descurainia sophia* **Ref:** 660.

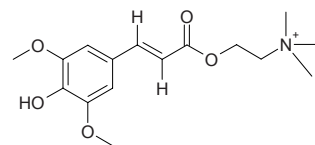


19916 trans-Sinapic acid methylester

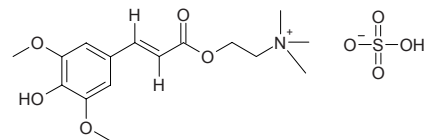
3-(4-Hydroxy-3,5-dimethoxy-phenyl)-acrylic acid methyl ester $C_{12}H_{14}O_5$ (238.24). Slightly yellow powder; colorless crystals, mp 83~85°C, $[\alpha]_D^{22} = -8.1^\circ$ ($CHCl_3$). **Pharm:** Cytotoxic (*in vitro* antiproliferative activity, LoVo, $IC_{50} > 40 \mu\text{mol/L}$, control Doxorubicin, $IC_{50} = (0.04 \pm 0.01) \mu\text{mol/L}$). **Source:** PU TONG YUAN ZHI *Polygala vulgaris*, SHUI GAN CAO *Amsonia sinensis*. **Ref:** 2092, 4246.

**19917 Sinapine**

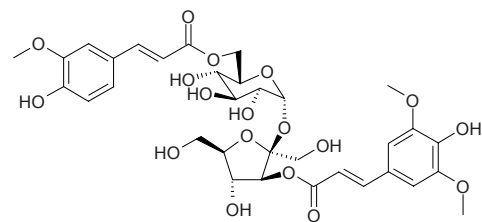
$C_{16}H_{24}NO_5$ (310.37). mp 179°C. **Source:** BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (dried ripe seed: content (sulfofyanate) = 0.45%^[5508]), JIE ZI *Brassica juncea*, LAI FU ZI *Raphanus sativus* (ripe seed: content scope of 5 origins = 0.17%~0.36%, mean content = 0.25%^[5508]). **Ref:** 6, 5508.

**19918 Sinapine bisulfate**

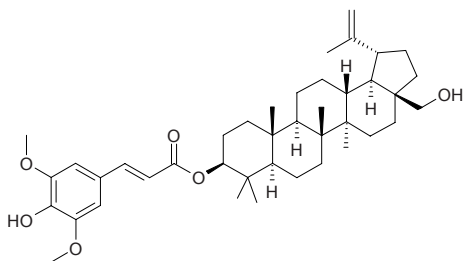
$C_{16}H_{25}NO_9S$ (414.44). **Pharm:** Antihypertensive. **Source:** LAI FU ZI *Raphanus sativus* (seed: content = 0.21%). **Ref:** 5501.

**19919 3'-Sinapoyl-6-feruloylsucrose**

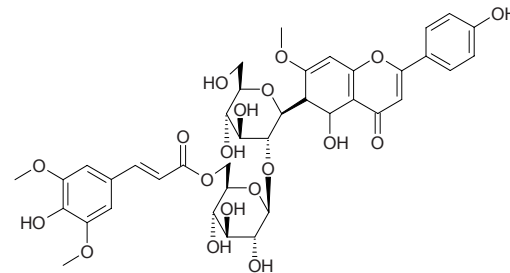
$C_{33}H_{40}O_{18}$ (724.68). Amorphous powder, $[\alpha]_D^{25} = -69.11^\circ$ ($c = 0.34$, MeOH). **Source:** CHOU CAO *Ruta graveolens* (dried aerial parts). **Ref:** 3073.

**19920 3β-trans-Sinapoyloxylyp-20(29)-en-28-ol**

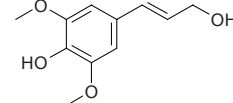
$C_{41}H_{60}O_6$ (648.93). Pale yellow amorphous powder ($CHCl_3$ -MeOH), mp 200°C (dec), $[\alpha]_D^{22} = +22.5^\circ$ ($c = 0.16$, MeOH). **Source:** FEI LV BIN PIAO SHU *Celtis philippinensis*. **Ref:** 2060.

**19921 6'''-Sinapoylspinosin**

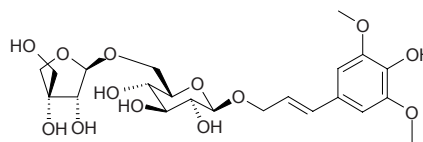
$C_{39}H_{44}O_{19}$ (816.77). **Source:** DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 2.

**19922 Sinapyl alcohol**

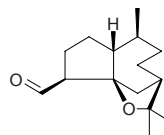
3-(4-Hydroxy-3,5-dimethoxyphenyl)-prop-2-enol [537-33-7] $C_{11}H_{14}O_4$ (210.23). **Pharm:** Precursor to biosynthesis of lignin (in angiosperms); anti-inflammatory (mouse, inhibits increased vascular permeability by acetic acid, 30mg/(kg-d), orl, InRt = 38%, control Indomethacin, 100mg/(kg-d), orl, InRt = 45%^[4073]), anti-inflammatory (rat, acute paw edema by carrageen, 30mg/(kg-d), orl, 1h, 3h, 5h, InRt = 17%, 41%, 21%, control ibuprofen, 100mg/(kg-d), orl, 1h, 3h, 5h, InRt = 42%, 55%, 47%^[4073]); analgesic (mouse: acetic acid induced writhing, 30mg/(kg-d), orl, InRt = 55%, control Aspirin, 100mg/(kg-d), orl, InRt = 68%; hot plate test, 30mg/(kg-d), orl, increased action time = 83%; control Morphine, increased action time = 138%^[4073]). **Source:** MAO PAO TONG *Paulownia tomentosa*, QIAN MA *Urtica cannabina*, TIAN NV MU LAN *Magnolia sieboldii* (stem cortex), *Viscum* sp. **Ref:** 658, 660, 4073.

**19923 Sinapyl 9-O-[β-D-apiofuranosyl(1→6)]-O-β-D-glucopyranoside**

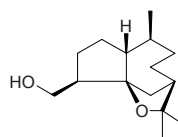
$C_{22}H_{32}O_{13}$ (504.49). White powder, mp 284~286°C, $[\alpha]_D^{20} = +13.2^\circ$ ($c = 0.50$, H_2O). **Pharm:** Antioxidant (*in vitro*, effect on conjugated diene formation of LDL or MDA level in rat brain). **Source:** SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.0003%). **Ref:** 4792.

**19924 Sinenofuranal**

$C_{15}H_{24}O_2$ (236.36). **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13.

**19925 Sinenofuranol**

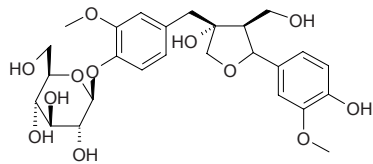
$C_{15}H_{26}O_2$ (238.37). **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13.



19926 Sinenoside

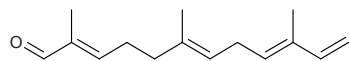
$C_{26}H_{34}O_{12}$ (538.55). White crystals, $[\alpha]_D^{19} = -46.67^\circ$ ($c = 0.015$, C_5H_5N).

Source: NV ZHEN XIAO LA SHU *Ligustrum sinense*. **Ref:** 2444.

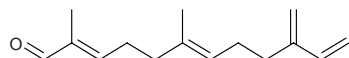
**19927 α -Sinensal**

2,6,10-Trimethyl-2,6,9,11-dodecatetraenal $C_{15}H_{22}O$ (218.34). **Pharm:** Flavorant.

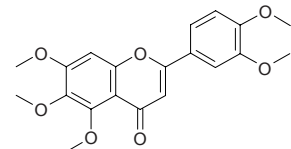
Source: JU PI *Citrus reticulata*, TIAN CHENG *Citrus sinensis*. **Ref:** 658, 660.

**19928 β -Sinensal**

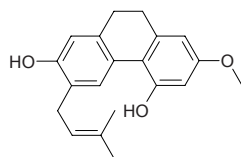
$C_{15}H_{22}O$ (218.34). **Pharm:** Flavorant. **Source:** TIAN CHENG *Citrus sinensis*. **Ref:** 658.

**19929 Sinensetin**

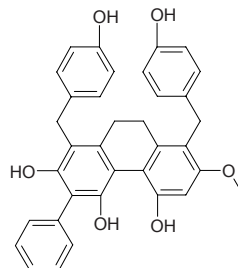
5,6,7,3',4'-Pentamethoxyflavone [2306-27-6] $C_{20}H_{20}O_7$ (372.38). Colorless prismatic crystals, mp 169–171°C (methanol); pale-yellow prisms, mp 179°C, 172–173°C. **Pharm:** Antifungal; cytotoxic (EAC *in vitro*, 30 $\mu\text{g}/\text{mL}$, InRt = 50%); induces cell differentiation (mus myelocytic leukemia cells, 50 $\mu\text{mol}/\text{L}$, growing rate = 62%, 5 $\mu\text{mol}/\text{L}$, growing rate = 81%, 50 $\mu\text{mol}/\text{L}$ and 5 $\mu\text{mol}/\text{L}$, activity of macrophages >10%, HL-60 cells, 100 $\mu\text{mol}/\text{L}$, growing rate = 50%, 50 $\mu\text{mol}/\text{L}$, growing rate = 73%, 50 $\mu\text{mol}/\text{L}$, activity of macrophages >25%, 5 $\mu\text{mol}/\text{L}$, activity of macrophages = 10%); antihistamine (inhibits histamine release, basophiles, due to antigen and TPA, $IC_{50} = 44$ and 26 $\mu\text{mol}/\text{L}$ respectively); inhibits oxidation of linoleic acid ($IC_{50} = 114 \mu\text{mol}/\text{L}$); inhibits tissue factor express (induced by hmn interleukin-1 in hyalin leukocyte, $IC_{50} = 10 \mu\text{mol}/\text{L}$); 15-lipoxygenase inhibitor. **Source:** HUA ZHOU YOU *Citrus grandis* var. *tomentosus*, JIAO GAN *Citrus tankan*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JU PI *Citrus reticulata*, LONG XU TENG *Bauhinia championii*, MAO XU CAO *Clerodendranthus spicatus*, SHENG HONG JI *Ageratum conyzoides*, TIAN CHENG *Citrus sinensis*, ZHI KE *Citrus aurantium*, ZHI SHI *Citrus aurantium*, ZONG ZHUANG HUA LI *Chenopodium championii*. **Ref:** 658, 900, 979, 2648, 2867, 2910, 2974, 2998.

**19930 Sinensol G**

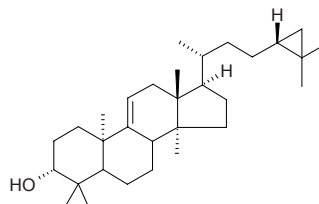
2-Methoxy-4,7-dihydroxy-6-isopentenyl-9,10-dihydrophenanthrene $C_{20}H_{22}O_3$ (310.40). Colorless amorphous powder. **Source:** ZHONG GUO SHOU CAO *Spiranthes sinensis* (aerial parts). **Ref:** 4120.

**19931 Sinensol H**

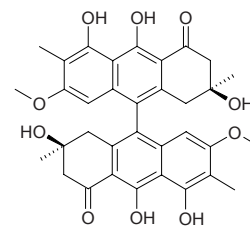
4,5,7-Trihydroxy-1,8-bis(4-hydroxybenzyl)-3-methoxy-6-phenyl-9,10-dihydrophenanthrene $C_{35}H_{30}O_6$ (546.63). Pale yellow amorphous powder, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.5$, MeOH). **Source:** ZHONG GUO SHOU CAO *Spiranthes sinensis* (aerial parts). **Ref:** 4120.

**19932 Sinetirucallol**

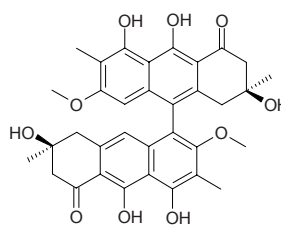
24,31-Homocyclotirucall-9(11)-ene-3 β -ol $C_{31}H_{52}O$ (440.76). Colorless needles, mp 96–97°C, $[\alpha]_D^{25} = -66^\circ$ ($c = 0.5$, CHCl_3). **Source:** ZHONG GUO SHOU CAO *Spiranthes sinensis* (aerial parts). **Ref:** 4120.

**19933 Singueanol I**

$C_{34}H_{34}O_{10}$ (602.64). **Pharm:** Antibacterial^[4418]; antispasmodic^[4418]. **Source:** WANG JIANG NAN *Cassia occidentalis*, DONG FEI JUE MING *Cassia singueana*. **Ref:** 660, 4418.

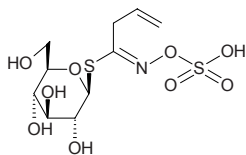
**19934 Singueanol II**

$C_{34}H_{34}O_{10}$ (602.64). **Pharm:** Antibacterial; antispasmodic. **Source:** DONG FEI JUE MING *Cassia singueana*. **Ref:** 4418.

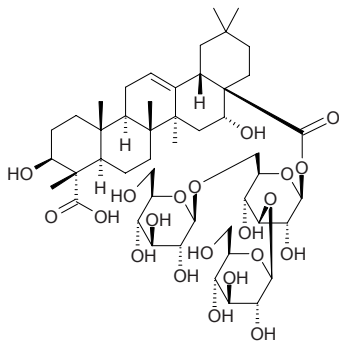


19935 Sinigrin

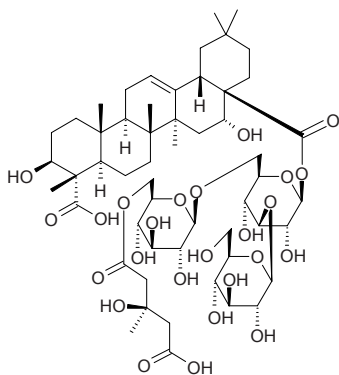
[3952-98-5] C₁₀H₁₇NO₉S₂ (359.38). mp 127~129°C. **Pharm:** Antibacterial; irritant; promotes secretion of digestive juice. **Source:** BAI JIANG *Patrinia villosa*, BAN LAN GEN *Isatis indigotica*, JI CAI *Capsella bursa-pastoris*, JIE ZI *Brassica juncea*, LA GEN *Armoracia lapathifolia*, XI MING *Thlaspi arvense*, XI MING ZI *Thlaspi arvense*. **Ref:** 4, 6, 658, 660.

**19936 Sinocrassulose I**

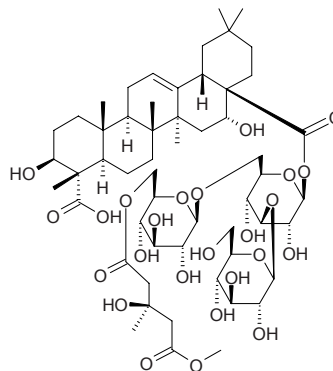
3 β ,16 α -Dihydroxyolean-12-en-23,28-dioic acid 28-O-[β -D-glucopyranosyl (1 \rightarrow 3)][β -D-glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl ester C₄₈H₇₆O₂₁ (989.13). White amorphous powder, $[\alpha]_D^{26} = +17.6^\circ$ ($c = 0.051$, MeOH). **Source:** SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). **Ref:** 4264.

**19937 Sinocrassulose II**

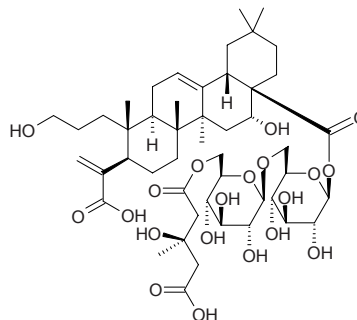
3 β ,16 α -Dihydroxyolean-12-en-23,28-dioic acid 28-O-[β -D-glucopyranosyl (1 \rightarrow 3)][β -D-6-O-((3R)-3-hydroxy-3-methylglutaryl)glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl ester C₅₄H₈₄O₂₅ (1133.26). White amorphous powder, $[\alpha]_D^{26} = +13.9^\circ$ ($c = 0.074$, MeOH). **Source:** SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). **Ref:** 4264.

**19938 Sinocrassulose III**

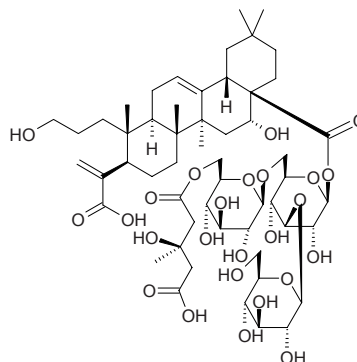
3 β ,16 α -Dihydroxyolean-12-en-23,28-dioic acid 28-O-[β -D-glucopyranosyl(1 \rightarrow 3)][β -D-6-O-(3-hydroxy-5-methoxy-3-methyl-5-oxopentanyl)glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl ester C₅₅H₈₆O₂₅ (1147.28). White amorphous powder, $[\alpha]_D^{26} = +30.4^\circ$ ($c = 0.023$, MeOH). **Source:** SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). **Ref:** 4264.

**19939 Sinocrassulose IV**

3,16 α -Dihydroxy-3,4-seco-olean-4(24),12-dien-23,28-dioic acid 28-O-[β -D-6-O-(3-hydroxy-3-methylglutaryl)-glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl ester C₄₈H₇₄O₂₀ (971.11). White amorphous powder, $[\alpha]_D^{26} = +22.6^\circ$ ($c = 0.031$, MeOH). **Source:** SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). **Ref:** 4264.

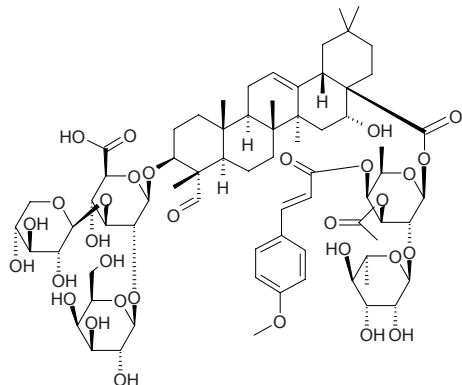
**19940 Sinocrassulose V**

3,16 α -Dihydroxy-3,4-seco-olean-4(24),12-dien-23,28-dioic acid 28-O-[β -D-glucopyranosyl(1 \rightarrow 3)]{ β -D-6-O-[(3R)-3-hydroxy-3-methylglutaryl]-glucopyranosyl(1 \rightarrow 6)}- β -D-glucopyranosyl ester C₅₄H₈₄O₂₅ (1133.26). White amorphous powder, $[\alpha]_D^{26} = +39.7^\circ$ ($c = 0.026$, MeOH). **Source:** SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). **Ref:** 4264.

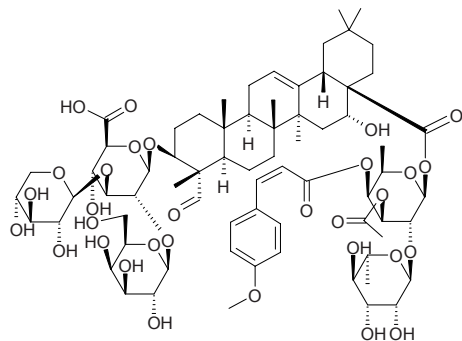


19941 Sinocrassuloside VI

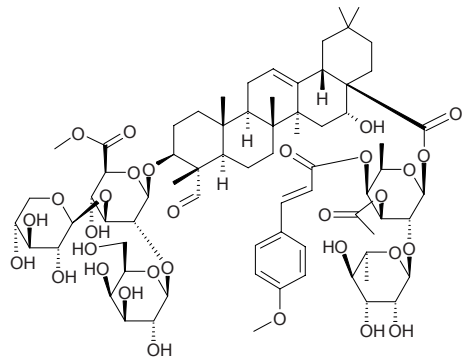
3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester C₇₁H₁₀₂O₃₁ (1451.59). White amorphous powder, $[\alpha]_D^{26} = +18.4^\circ$ ($c = 0.076$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

**19942 Sinocrassuloside VII**

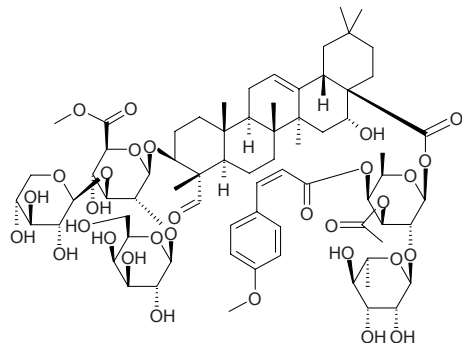
3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*Z*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester C₇₁H₁₀₂O₃₁ (1451.59). White amorphous powder, $[\alpha]_D^{26} = +8.3^\circ$ ($c = 0.004$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

**19943 Sinocrassuloside VIII**

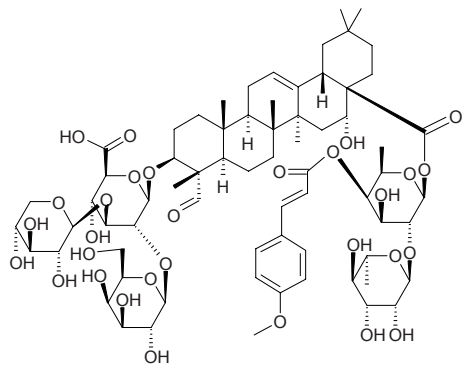
3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]-[6-*O*-methyl- β -*D*-glucuronopyranosyl] quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-[3-*O*-acetyl-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl] ester C₇₂H₁₀₄O₃₁ (1465.61). White amorphous powder, $[\alpha]_D^{26} = +12.1^\circ$ ($c = 0.022$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

**19944 Sinocrassuloside IX**

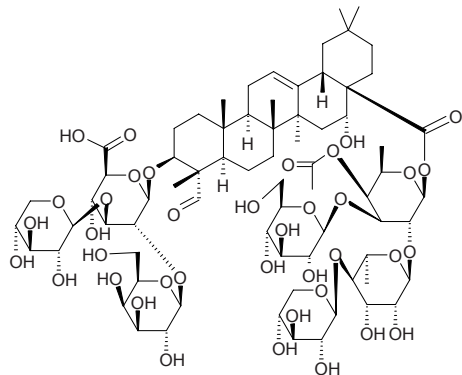
3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]-[6-*O*-methyl- β -*D*-glucuronopyranosyl] quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*Z*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester C₇₂H₁₀₄O₃₁ (1465.61). White amorphous powder, $[\alpha]_D^{26} = +37.5^\circ$ ($c = 0.016$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

**19945 Sinocrassuloside X**

3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester C₆₉H₁₀₀O₃₀ (1409.55). White amorphous powder, $[\alpha]_D^{26} = +38.5^\circ$ ($c = 0.026$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

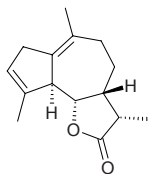
**19946 Sinocrassuloside XI**

3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-{[β -*D*-xylopyranosyl(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl(1 \rightarrow 2)}-[β -*D*-glucopyranosyl(1 \rightarrow 3)]-4-*O*-acetyl- β -*D*-fucopyranosyl ester C₇₂H₁₁₂O₃₈ (1585.67). White amorphous powder, $[\alpha]_D^{26} = +3.5^\circ$ ($c = 0.019$, MeOH). Source: SI MA LI JIN SHI LIAN *Sinocrassula asclepiadea* (root). Ref: 4264.

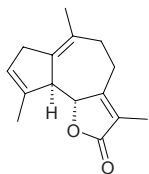


19947 Sinodiellide A

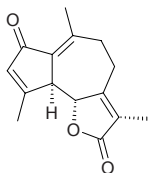
5 α ,6 β ,7 β -H-1(10),3-Guaiadien-12,6 α -olide C₁₅H₂₀O₂ (232.33). Colorless needles, mp 145.5~146.5°C; white powder (EtOAc), mp 127~128°C, [α]_D²¹ = -59.82° (*c* = 0.56, CHCl₃). Source: DIAN QIN *Sinodielsia yunnanensis* (root: yield = 0.062%). Ref: 4305, 5470.

**19948 Sinodiellide B**

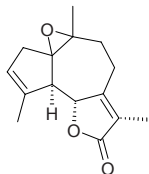
5 α ,6 β -H-1(10),3,7(11)-Guaiatrien-12,6 α -olide C₁₅H₁₈O₂ (230.31). Colorless needles (EtOAc), mp 91~92°C, [α]_D²¹ = -30.09° (*c* = 0.62, CHCl₃); mp 104.3~105.0°C. Source: DIAN QIN *Sinodielsia yunnanensis* (root: yield = 0.024%). Ref: 4305, 5470.

**19949 Sinodiellide C**

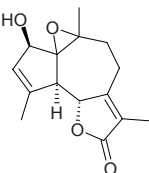
C₁₅H₁₆O₃ (244.29). Colorless crystalline powder, mp 140.5~141.0°C. Source: DIAN QIN *Sinodielsia yunnanensis* (root: yield = 0.0015%). Ref: 4305.

**19950 Sinodiellide D**

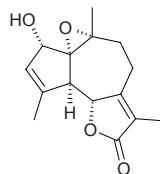
C₁₅H₁₈O₃ (246.31). Colorless amorphous powder. Source: DIAN QIN *Sinodielsia yunnanensis* (root: yield = 0.0010%). Ref: 4305.

**19951 Sinodiellide E**

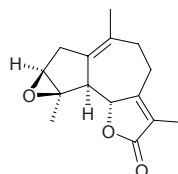
C₁₅H₁₈O₄ (262.31). Colorless needles, mp 163.6~164.0°C, [α]_D²² = +46.3° (*c* = 0.549, CHCl₃). Source: DIAN QIN *Sinodielsia yunnanensis* (root). Ref: 4336.

**19952 Sinodiellide F**

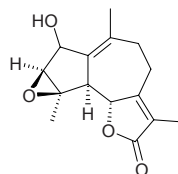
C₁₅H₁₈O₄ (262.31). Colorless needles, mp 102.8~103.0°C, [α]_D²² = -168.7° (*c* = 0.435, CHCl₃). Source: DIAN QIN *Sinodielsia yunnanensis* (root). Ref: 4336.

**19953 Sinodiellide G**

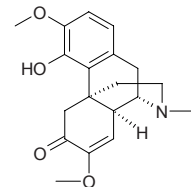
C₁₅H₁₈O₃ (246.31). Colorless amorphous powder, [α]_D²² = +6.1° (*c* = 0.405, CHCl₃). Source: DIAN QIN *Sinodielsia yunnanensis* (root). Ref: 4336.

**19954 Sinodiellide H**

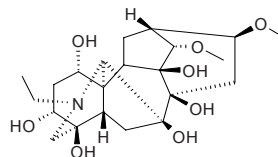
C₁₅H₁₈O₄ (262.31). Pale yellow viscous oil, [α]_D²² = -7.3° (*c* = 0.379, CHCl₃). Source: DIAN QIN *Sinodielsia yunnanensis* (root). Ref: 4336.

**19955 Sinomenine**

Coculine [115-53-7] C₁₉H₂₃NO₄ (329.40). mp 162°C. Pharm: Analgesic (mus, rbt); antiarrhythmic (*in vitro* atrium of gpg); anti-inflammatory (rat, arthritis model due to methanol or egg white); antitussive (mus, cat); inhibits intestinal smooth muscle (*in vitro*); antihypertensive (dog, cat and rat, iv and orl); negative chronotropic action; releases histamine; LD₅₀ (mus, orl) = 580mg/kg, (mus, sc) = 535mg/kg, (mus, ip) = 285mg/kg, (dog, orl) = 45mg/kg, (monkey, orl) = 95mg/kg. Source: BIAN FU GE *Menispermum dauricum*, BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content = 0.107%^[5508]), QING FENG TENG *Sinomenium acutum* (stem: content = 0.81%^[5501]). Ref: 4, 6, 658, 5501, 5508.

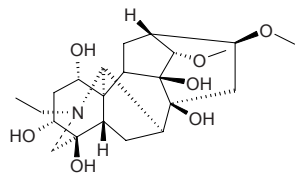
**19956 Sinomontanine D**

C₂₂H₃₅O₈N (441.53). White amorphous powder. Source: GAO WU TOU *Aconitum sinomontanum*. Ref: 844.

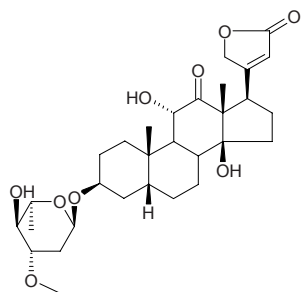


19957 Sinomontanine E

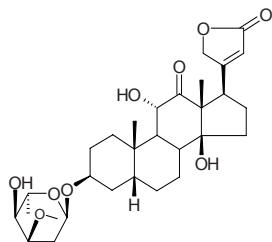
$C_{22}H_{35}O_7N$ (425.53). White amorphous powder. Source: GAO WU TOU *Aconitum sinomontanum*. Ref: 844.

**19958 Sinoside**

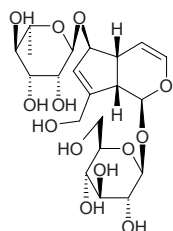
$C_{30}H_{44}O_9$ (548.68). mp 197~202°C, 233~244°C. Pharm: Cardiotonic. Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 6, 658.

**19959 Sinostroside**

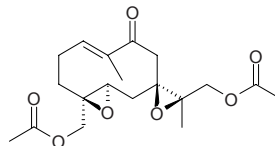
$C_{30}H_{44}O_9$ (548.68). mp 183~193°C. Source: YANG JIAO AO ZI *Strophanthus divaricatus*. Ref: 6.

**19960 Sinuatol**

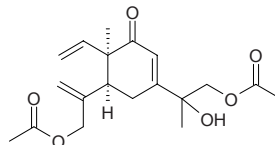
6-*O*- α -*L*-Rhamnopyranosyl-aucubin $C_{21}H_{32}O_{13}$ (492.48). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense*, $IC_{50} > 100\mu g/mL$, control Melarsoprol, $IC_{50} = 0.0033\mu g/mL$; *Trypanosoma cruzi*, $IC_{50} > 90\mu g/mL$, control Benznidazole, $IC_{50} = 0.70\mu g/mL$); antileishmanial (*Leishmania donovani*, $IC_{50} > 100\mu g/mL$, control Miltefosine, $IC_{50} = 0.32\mu g/mL$); antimalarial (*Plasmodium falciparum*, $IC_{50} > 50\mu g/mL$, control Artemisinin, $IC_{50} = 0.002\mu g/mL$); cytotoxic (L6 cells, $IC_{50} > 90\mu g/mL$, control Podophyllotoxin, $IC_{50} = 0.0075\mu g/mL$). Source: LIN PIAN XUAN SHEN *Scrophularia lepidota* (root). Ref: 5251.

**19961 Sipaucin A**

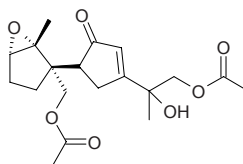
$C_{19}H_{26}O_7$ (366.41). Yellow oil, $[\alpha]_D^{20} = -4^\circ$ ($c = 0.10$, $CHCl_3$). Source: SHAO HUA XI PA MU *Siparuna pauciflora*. Ref: 3376.

**19962 Sipaucin B**

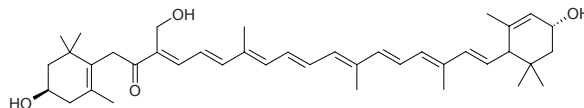
$C_{19}H_{26}O_6$ (350.42). Yellow oil, $[\alpha]_D^{20} = +8^\circ$ ($c = 0.25$, $CHCl_3$). Source: SHAO HUA XI PA MU *Siparuna pauciflora*. Ref: 3376.

**19963 Sipaucin C**

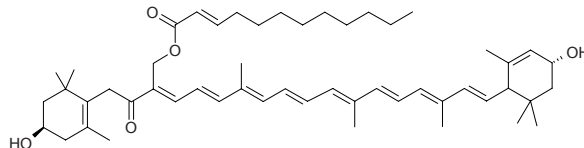
$C_{19}H_{26}O_7$ (366.41). Yellow oil, $[\alpha]_D^{20} = +3^\circ$ ($c = 0.30$, $CHCl_3$). Source: SHAO HUA XI PA MU *Siparuna pauciflora*. Ref: 3376.

**19964 Siphonaxanthin**

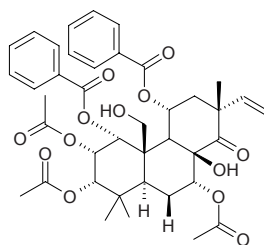
$C_{40}H_{56}O_4$ (600.89). Source: SHUI SONG *Codium fragile*. Ref: 660.

**19965 Siphonein**

$C_{52}H_{76}O_5$ (781.18). Source: SHUI SONG *Codium fragile*. Ref: 660.

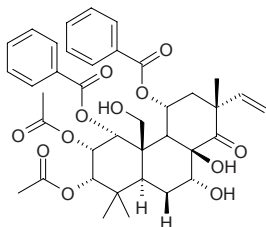
**19966 Siphonol A**

$C_{40}H_{46}O_{13}$ (734.80). Colorless amorphous solid, $[\alpha]_D^{25} = -146.5^\circ$ ($c = 0.07$, $CHCl_3$). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 10.8\mu mol/L$; control *L*-NMMA, $IC_{50} = 26.0\mu mol/L$; Polymixin B, $IC_{50} = 27.8\mu g/mL$; Dexamethasone $IC_{50} = 170\mu mol/L$). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

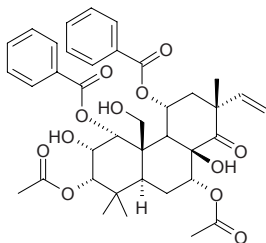


19967 Siphonol B

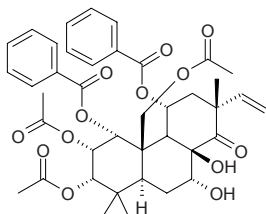
$C_{38}H_{44}O_{12}$ (692.77). Colorless amorphous solid, $[\alpha]_D^{25} = -103.4^\circ$ ($c = 0.08$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 17.3\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$, Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$, Dexamethasone, $IC_{50} = 170\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

**19968 Siphonol C**

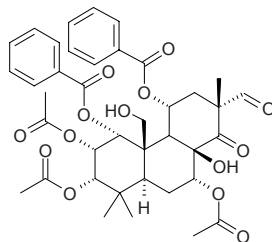
$C_{38}H_{44}O_{12}$ (692.77). Colorless amorphous solid, $[\alpha]_D^{25} = -49.9^\circ$ ($c = 0.06$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 22.9\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$, Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$, Dexamethasone $IC_{50} = 170\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

**19969 Siphonol D**

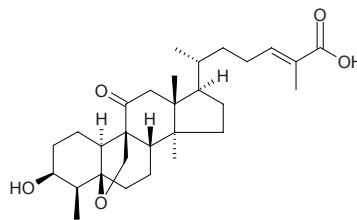
$C_{40}H_{46}O_{13}$ (734.80). Colorless amorphous solid, $[\alpha]_D^{25} = -92.8^\circ$ ($c = 0.09$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 46.5\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$, Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$, Dexamethasone $IC_{50} = 170\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

**19970 Siphonol E**

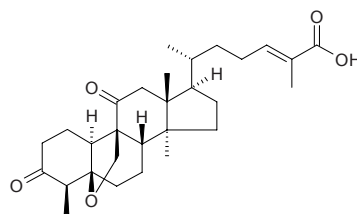
$C_{39}H_{44}O_{14}$ (736.78). Colorless amorphous solid, $[\alpha]_D^{25} = -135.7^\circ$ ($c = 0.06$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 23.0\mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 26.0\mu\text{mol/L}$, Polymixin B, $IC_{50} = 27.8\mu\text{g/mL}$, Dexamethasone $IC_{50} = 170\mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

**19971 Siraitic acid A**

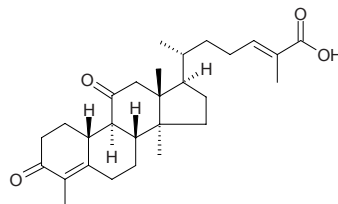
$C_{29}H_{44}O_5$ (472.67). White columnar crystals, mp 210–211°C, $[\alpha]_D^{22} = +58.6^\circ$ ($c = 0.50$, EtOH). **Source:** LUO HAN GUO *Siraitia grosvenorii* [Syn: *Momordica grosvenorii*]. **Ref:** 495.

**19972 Siraitic acid B**

$C_{29}H_{42}O_5$ (470.66). White columnar crystals, mp 171–172°C, $[\alpha]_D^{22} = +41.4^\circ$ ($c = 0.50$, EtOH). **Source:** LUO HAN GUO *Siraitia grosvenorii* [Syn: *Momordica grosvenorii*]. **Ref:** 495.

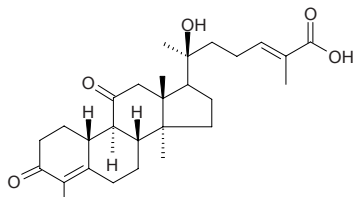
**19973 Siraitic acid C**

$C_{28}H_{40}O_4$ (440.63). White columnar crystals mp 217–218°C. **Source:** LUO HAN GUO *Siraitia grosvenorii* [Syn: *Momordica grosvenorii*]. **Ref:** 812.

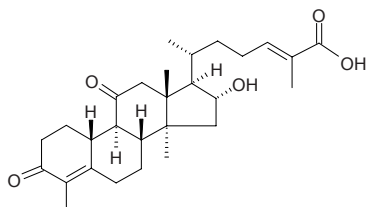


19974 Siraitic acid D

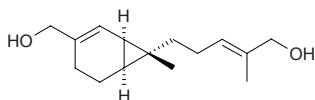
$C_{28}H_{40}O_5$ (456.63). White columnar crystals mp 194–195°C. Source: LUO HAN GUO *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*]. Ref: 812.

**19975 Siraitic acid E**

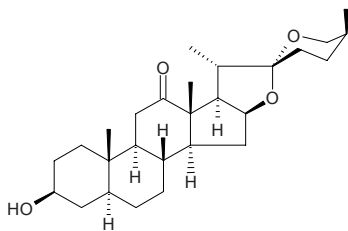
$C_{28}H_{40}O_5$ (456.63). White acicular crystals mp 246–248°C. Source: LUO HAN GUO *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*]. Ref: 836.

**19976 Sirenin**

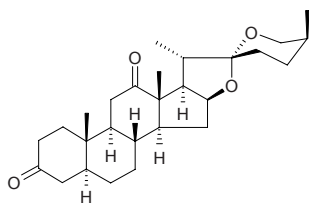
$C_{15}H_{24}O_2$ (236.36). Pharm: Alluring action (male gamete of Allomyces, 1×10^{-10} mol/L). Source: *Saprolegnia ferax*. Ref: 658.

**19977 Sisalagenin**

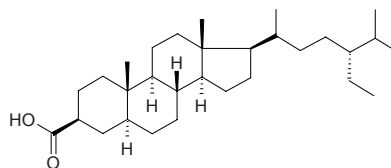
$C_{27}H_{42}O_4$ (430.63). Source: JIAN MA *Agave sisalana*. Ref: 10.

**19978 Sisalagenone**

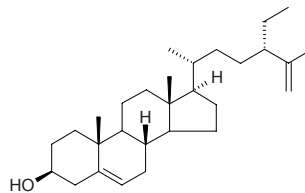
$C_{27}H_{40}O_4$ (428.62). Source: SHUI QIE *Solanum torvum*. Ref: 6.

**19979 Sitostanyl formate**

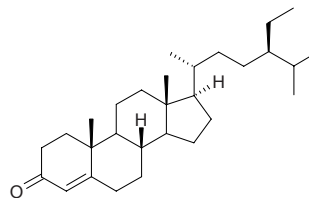
$C_{30}H_{52}O_2$ (444.75). mp 107°C, $[\alpha]_D = +9.9^\circ$ ($c = 0.3$, $CHCl_3$). Source: BING YE SUO LUO *Yathea podophylla* (fresh frond). Ref: 4401.

**19980 5,25-Sitost-dienol**

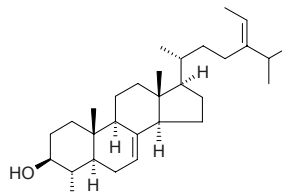
$C_{29}H_{48}O$ (412.71). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 2.

**19981 β -Sitostenone**

Stigmast-4-en-3-one $C_{29}H_{48}O$ (412.71). $[\alpha]_D^{25} = +83^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Cytotoxic (P_{388} , $ED_{50} = 20.14 \mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.58 \mu\text{g/mL}$; A549, $ED_{50} > 50 \mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.073 \mu\text{g/mL}$; HT29, $ED_{50} > 50 \mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.076 \mu\text{g/mL}$)^[5421]. Source: MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0019% dw), XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 1521, 3026, 5400, 5421.

**19982 α_1 -Sitosterol**

[474-40-8] $C_{30}H_{50}O$ (426.73). mp 162–164°C. Source: AI QIE *Solanum demissum*, MA LING SHU *Solanum tuberosum*, WAN DOU *Pisum sativum*. Ref: 1521.

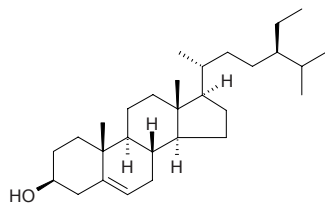


19983 β -Sitosterol

(3 β ,24R)Stigmast-5-en-3-ol [83-46-5] C₂₉H₅₀O (414.72). mp 136~137°C, [α]_D²² = -35° (CHCl₃), [α]_D²⁵ = -36° (c = 1.0, C HCl₃); [α]_D²⁵ = -36.0° (c = 0.2, CHCl₃). **Pharm:** Antineoplastic (mus Lewis lung cancer and adenocarcinoma 715, rat W₂₅₆); antimutagenic (*E. coli* PQ37, antigenotoxicity test, for mutagen MNNG shows 45% reduction of induction factor, for mutagen NQO, shows 55% reduction of induction factor)^[4459]; anti-inflammatory; antitussive (mus, cough induced by ammonia, orl, ED = 250mg/kg); antihypercholesterolemic (mus and jockos, reduces cholesterol); antifungal inactive (hmn pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*); 12(S)-LOX inhibitor (hmn Platelets, 12(S)-HETE Production inhibitor, 100 μ g/mL, inhibitive rate = (25.0 \pm 2.2)%, control Baicalein, IC₅₀ = 24.6 μ mol/L)^[4980]; gastroprotective (30 mg/kg, Gp = (42.5 \pm 7.5)%, control Carbenoxolone, Gp = (88.4 \pm 5.4)%, *p*<0.05)^[5461]; platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L AA-induced, InRt = 18.6%, control 50 μ mol/L Aspirin, InRt = 100%; 10 μ g/mL collagen-induced, InRt = 8.4%, 100 μ mol/L Aspirin, InRt = 4.9%; 0.1U/mL Thrombin-induced, InRt = 16.3%, 100 μ mol/L Aspirin, InRt = 1.7%; 2ng/mL PAF-induced, InRt = 1.3%, 100 μ mol/L Aspirin, InRt = 2.1%)^[5427]; platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (195 \pm 8) μ mol/L, control ASA, IC₅₀ = (420 \pm 3) μ mol/L; 1~4 μ mol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (174 \pm 8) μ mol/L, ASA, IC₅₀ = (53 \pm 5) μ mol/L; 10~40 μ mol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (145 \pm 5) μ mol/L, ASA, IC₅₀ = (66.0 \pm 2.1) μ mol/L; 1~5 μ mol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (170 \pm 9) μ mol/L, ASA, IC₅₀ = (340 \pm 12) μ mol/L)^[4994]; cytotoxic (P₃₈₈, ED₅₀ = 15.87 μ g/mL, control Mithramycin, ED₅₀ = 0.58 μ g/mL; A549, ED₅₀ > 50 μ g/mL, Mithramycin, ED₅₀ = 0.073 μ g/mL; HT29, ED₅₀ > 50 μ g/mL, Mithramycin, ED₅₀ = 0.076 μ g/mL)^[5421]; cytotoxic (MCF7, IC₅₀ > 100 μ mol/L, control Adriamycin, IC₅₀ = (1.5 \pm 0.2) μ mol/L; K562, IC₅₀ > 100 μ mol/L, Adriamycin, IC₅₀ = (0.07 \pm 0.01) μ mol/L; Bowes, IC₅₀ = (36.5 \pm 3.8) μ mol/L, Adriamycin, IC₅₀ = (0.45 \pm 0.01) μ mol/L; T24S, IC₅₀ > 100 μ mol/L, Adriamycin, IC₅₀ = (5.8 \pm 0.6) μ mol/L; A549, IC₅₀ > 100 μ mol/L, Adriamycin, IC₅₀ = (15.8 \pm 6.7) μ mol/L)^[5288]; cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]; cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100 μ mol/L)^[4607]; antitrypanosomal inactive (epimastigotes of *Trypanosoma cruzi*, 400 μ mol/L)^[2579]; tyrosinase inhibitor (333 μ mol/L, InRt = 14.3%, control Kojic acid, IC₅₀ = 125 μ mol/L)^[4722]; CYP3A4 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Ketoconazole, IC₅₀ = 0.245 μ mol/L)^[4669]; CYP2D6 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Quinidine, IC₅₀ = 0.078 μ mol/L)^[4669]. **Source:** AN ZI BEI MU *Fritillaria unibracteata*, BA DOU *Croton tiglium*, BA JI TIAN *Morinda officinalis* (root: content scope = 0.059%~0.062%)^[5501], BA QIA *Smilax china* [Syn. *Smilax japonica*] (tuberoid: mean content = 0.0050%)^[5508], BAI GUO *Ginkgo biloba*, BAI JIE ZI *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (dried ripe seed: content = 0.03%)^[5508], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*], BAN LAN GEN *Isatis indigotica*, BAN XIA *Pinellia ternata*, BEI JIA ER TANG SONG CAO *Thalictrum baicalense*, BEI MA DOU LING *Aristolochia contorta*, BEI MA DOU LING GEN *Aristolochia contorta*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, CHANG YE TIAN MING JING *Carpesium longifolium* (aerial parts: yield = 0.0036%dw)^[4736], CHAO XIAN LENG SHAN *Abies koreana* (root cortex), CHE QIAN *Plantago asiatica*, CHI SHAO *Paeonia lactiflora* wild, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], CHUAN XU DUAN

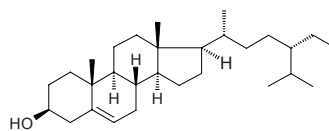
Dipsacus asperoides, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA QING YE *Isatis indigotica*, DAN SHEN *Salvia miltiorrhiza*, DIAN HUANG QIN *Scutellaria amoena*, DIAN LONG DAN *Gentiana rigescens*, DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.020%dw)^[4767], DONG BEI TIAN NAN XING *Arisaema amurense* (dried tuber: content = 0.25%)^[5508], DONG CHONG XIA CAO *Cordyceps sinensis*, DONG FANG WU TAN *Nauclea orientalis* (bark)^[3074], DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex)^[3075], DU ZHONG *Eucommia ulmoides*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.00025%dw)^[4669], GAN CAO *Glycyrrhiza uralensis*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], GOU QI GEN PI *Lycium chinense*, GOU QI ZI *Lycium chinense*, GU SUI BU *Drynaria fortunei*, GUAN MU TONG *Aristolochia manshuriensis* (stem)^[4706], GUANG FANG JI *Aristolochia fangchi*, GUANG JING QIAN CAO *Rubia wallichiana* (stem), GUI ZHI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HE SHOU WU *Polygonum multiflorum*, HEI DA DOU *Glycine max*, HONG HUA *Carthamus tinctorius*, HUA DONG LAN CI TOU *Echinops grijsii*, HUAI TONG *Aristolochia moupinensis*, HUANG BAI *Phellodendron amurense*, HUANG GAN CAO *Glycyrrhiza kansuensis*, HUANG HUA HAO *Artemisia annua*, HUANG QI *Astragalus membranaceus*, HUANG QI II *Engelhardia roxburghiana* (root), HUANG QIN *Scutellaria baicalensis*, HUI HUI SU *Perilla frutescens* var. *crispa*, HUO XIANG *Agastache rugosus*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0062%dw)^[4799], JIAN YE TOU WU GEN *Ligularia sagitta*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIN YIN HUA *Lonicera japonica*, JU PI *Citrus reticulata*, KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.00024%dw)^[4607], LI MENG PI *Citrus limonia*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), LIU SU SHI HU *Dendrobium fimbriatum* var. *oculatum*, LONG XUE SHU *Dracaena draco* (stem cortex)^[4696], LU SHAN SHI WEI *Pyrosia sheareri*, MA TI YE *Caltha palustris*, MAN JING ZI *Vitex trifolia*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MENG GU HUANG QI *Astragalus mongholicus*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.012%dw)^[3026], MO ZHI JIAO GU CUI *Casearia membranacea* (stem), MU JIN PI *Hibiscus syriacus*, MU TONG *Akebia quinata*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], OU ZHOU CI BAI *Juniperus communis* (wood), PI PA YE *Eriobotrya japonica* (stem and leaf)^[3061], PU HUANG *Typha angustata*, QIANG HUO *Notopterygium incisum*, QIANG XIANG *Celosia argentea* (seed), QING FENG TENG *Sinomenium acutum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RI BEN LU TI CAO *Pyrola japonica*, ROU CONG RONG *Cistanche deserticola*, SAI ER WEI YA SHI CAO *Achillea alexandri-regis*, SAN LENG *Sparganium stoloniferum* (tuber: content = 0.0353%)^[5508], SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*],

SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI WEI *Pyrrosia lingua*, SHOU LIAN LIANG YI MU *Amphipterygium adstringens* (stem cortex), SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.0012%dw)^[4665], TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh bustem and leaf)^[4686], TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.0016%dw)^[4722], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TAI WAN XIU XIAN JU *Spiraea formosana*, TIAN MA *Gastrodia elata*, TIAN NAN XING *Arisaema consanguineum* (dried tuber: content scope of 3 origins = 0.11%–0.13%, mean content = 0.12%^[5508]), TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*, WU GENG WU JIA PI *Acanthopanax sessiliflorus*, WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), WU JIA PI *Acanthopanax gracilistylus*, XIA YE XIANG PU *Typha angustifolia*, XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XIAN HE CAO *Agrimonia pilosa* var. *japonica*, XIAO HONG SHEN *Rubia yunnanensis* (root)^[4646], XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)^[4769], XIAO YE GUAN ZHONG *Matteuccia struthiopteris*, XIN JIANG LAN CI TOU *Echinops ritro*, XING AN SHENG MA *Cimicifuga dahurica*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, XUAN SHEN *Scrophularia ningpoensis*, YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.0036%), YAO YONG PU GONG YING *Taraxacum officinale*, YE ZI RANG *Cocos nucifera*, YI LANG QING LAN *Dracocephalum kotschyi*, YI YE TIAN NAN XING *Arisaema heterophyllum*, YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, YING HE *Scleropyrum wallichianum* (twig), YU SHU SHU *Zea mays*, YU XING CAO *Houttuynia cordata*, YUN NAN GAN CAO *Glycyrrhiza yunnanensis*, YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (twig and leaf: yield = 0.0005%dw)^[4707], ZAN BI XI BA DOU *Croton zambesicus* (leaf), ZAO JIA CI *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (thorn), ZHAI YE BAN FENG HE *Pterospermum lanceaefolium*, ZHANG GUO GAN CAO *Glycyrrhiza inflata*, ZHANG YE BAN XIA *Pinellia pedatisecta* (dried tuber: content = 0.15%^[5508]), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069], ZI SU YE *Perilla frutescens* var. *arguta*, *Juliania adstringens* (bark), occurs in many plants (the commonest sterol of higher plants). Ref: 2, 4, 377, 519, 658, 660, 1521, 2529, 2545, 2575, 2576, 2579, 3026, 3061, 3069, 3074, 3075, 3786, 3807, 3854, 4163, 4369, 4459, 4483, 4488, 4502, 4520, 4527, 4607, 4646, 4665, 4669, 4676, 4686, 4696, 4706, 4707, 4722, 4736, 4767, 4769, 4799, 4980, 4994, 5059, 5288, 5382, 5400, 5421, 5427, 5461, 5501, 5508.



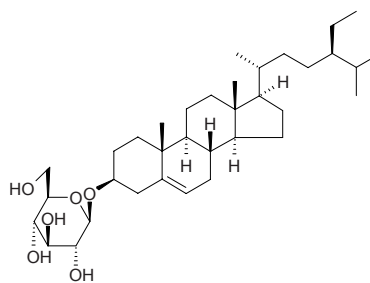
19984 γ -Sitosterol

(3 β ,24S)Stigmast-5-en-3-ol C₂₉H₅₀O (414.72). mp 147~148°C, [α]_D = -47.7° (CHCl₃). Source: BAN LAN GEN *Isatis indigotica*, DA QING YE *Isatis indigotica*, LI MENG PI *Citrus limonia*, LU BIAN QING *Clerodendron cyrtophyllum*, YUN QIAN HU *Peucedanum rubricaulae*. Ref: 2, 177, 660, 1521.



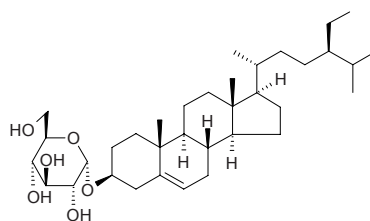
19985 β -Sitosterol-3-O- β -D-glucoside

β -Sitosteryl 3-O- β -D-glucoside C₃₅H₆₀O₆ (576.86). mp 135~136°C, [α]_D²³ = +40.2° (c = 0.85, pyridine). Pharm: Antibacterial (oral pathogens: *Streptococcus mutans*, MIC > 500 μ g/mL, control Chlorhexidine gluconate, MIC = 1.25 μ g/mL; *Fusobacterium nucleatum*, MIC > 500 μ g/mL, Chlorhexidine gluconate, MIC = 2.5 μ g/mL)^[5418]; cytotoxic (P₃₈₈, ED₅₀ = 6.12 μ g/mL, control Mithramycin, ED₅₀ = 0.58 μ g/mL; A549, ED₅₀ > 50 μ g/mL, Mithramycin, ED₅₀ = 0.073 μ g/mL; HT29, ED₅₀ = 26.55 μ g/mL, Mithramycin, ED₅₀ = 0.076 μ g/mL)^[5421]. Source: BAI MAO GEN⁽⁴⁾ *Hydrastis canadensis* (root), MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 5418, 5421.



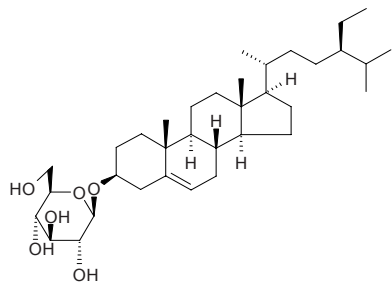
19986 β -Sitosterol- α -D-glucoside

C₃₅H₆₀O₆ (576.86). mp 300~302°C. Source: CHUAN CHI SHAO *Paeonia veitchii*. Ref: 448.

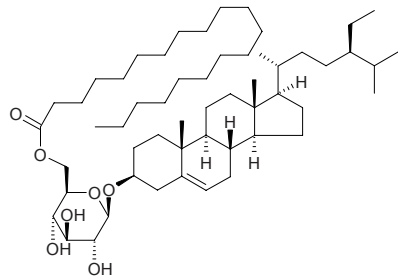


19987 β -Sitosterol- β -D-glucoside

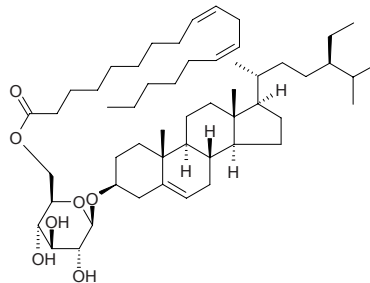
3-*O*- β -D-Glycopyranosylsitosterol C₅₅H₁₀₂O₆ (576.86). White powder; mp 283~286°C (dec), $[\alpha]_D^{25} = -51^\circ$ ($c = 1.0$, MeOH). **Pharm:** Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]; CYP3A4 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Ketoconazole IC₅₀ = 0.24 μ mol/L)^[4449]; CYP2D6 inhibitor inactive (IC₅₀ > 100 μ mol/L, control Quinidine IC₅₀ = 0.068 μ mol/L)^[4449]. **Source:** DUN XING BAI YE TENG *Cryptolepis obtusa* (root), BAN XIA *Pinellia ternata*, CHAO XIAN LENG SHAN *Abies koreana* (root cortex), CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], DONG FANG GOU JI *Woodwardia orientalis*, DONG FANG WU TAN *Nauclera orientalis* (bark)^[3074], FANG XIANG JIANG *Zingiber aromaticum* (rhizome), GOU QI YE *Lycium chinense*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.0027%)^[4706], HONG SAN QI *Polygonum suffutum*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, HUANG KUI *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], JIN YIN HUA *Lonicera japonica*, KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], KU GUA *Momordica charantia*, LI MU *Lyonia ovalifolia*, MAN JING ZI *Vitex trifolia*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MU TONG *Akebia quinata*, MU TONG GEN *Akebia quinata*, PI JIU HUA *Humulus lupulus* (strobile)^[4789], SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.0035%dw)^[4702], SANG YE *Morus alba*, SHUI QIE *Solanum torvum*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), WU SE MEI *Lantana camara* (aerial parts), XIANG JIA PI *Periploca sepium*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YA PIAN *Papaver somniferum*, YU BAI FU *Typhonium giganteum*, YUAN CAN SHA *Bombyx mori*, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00023%^[3042]; yield = 0.000050%dw^[3048]), ZHANG LIU TOU *Costus speciosus*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)^[3069], *Nuxia sphaerocephala* (leaf), occurs in many plants. **Ref:** 6, 377, 535, 562, 660, 2529, 3042, 3048, 3069, 3074, 3854, 3920, 4309, 4419, 4449, 4483, 4676, 4702, 4706, 4789, 5400.

**19988 β -Sitosterol-3-*O*- β -D-glucoside-6'-*O*-eicosanate**

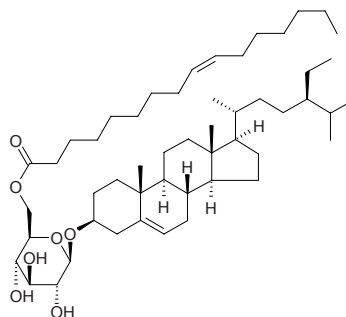
C₅₅H₉₈O₇ (871.39). White crystals, mp 121~123°C. **Source:** SHENG TENG *Stelmatocrypton khasianum*. **Ref:** 2157.

**19989 β -Sitosterol-3-(6-linoleoyl)glucopyranoside**

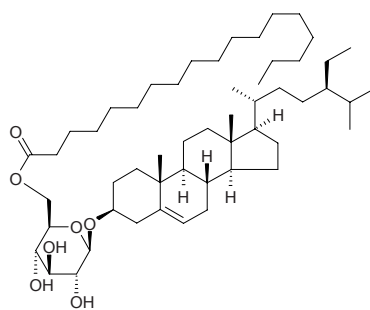
C₅₃H₉₀O₇ (839.30). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 660.

**19990 β -Sitosterol-3-(6-palmitoleoyl)glucopyranoside**

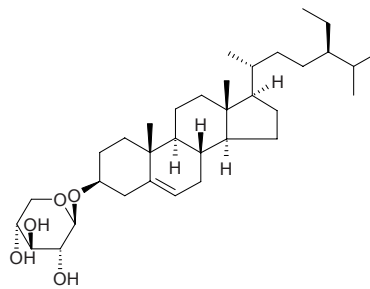
C₅₁H₈₈O₇ (813.27). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 660.

**19991 β -Sitosterol-3-(6-stearoyl)glucopyranoside**

C₅₃H₉₄O₇ (843.34). **Source:** REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 660.

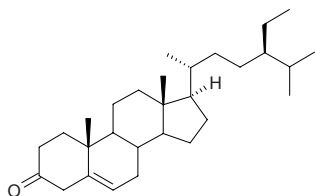
**19992 β -Sitosterol-3-*O*- β -D-xylopyranoside**

C₃₄H₅₈O₅ (546.84). Colorless acicular crystals (methanol), mp 285~287°C, $[\alpha]_D = -55.2^\circ$ ($c = 0.39$, pyridine). **Source:** NAN FANG TU SI ZI *Cuscuta australis*. **Ref:** 468.

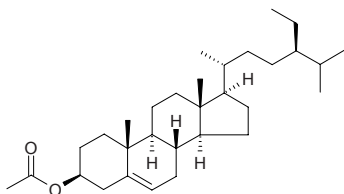


19993 β -Sitosterone

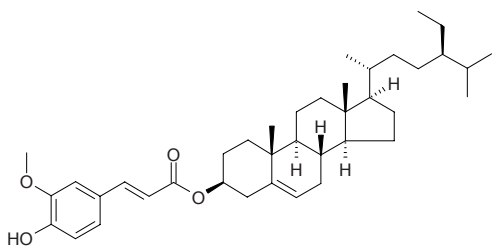
Stigmast-5-en-3-one; Δ^5 -Sitosterol-3-one C₂₉H₄₈O (412.71). Needles (MeOH-Et₂O), mp 94°C, $[\alpha]_D^{27} = +80.3^\circ$ ($c = 0.4$, CHCl₃). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L AA-induced, AggRt = 2.4%, control 50 μ mol/L Aspirin, AggRt = 100%; 10 μ g/mL collagen-induced, AggRt = 4.6%, 100 μ mol/L Aspirin, AggRt = 4.9%; 0.1U/mL thrombin-induced, AggRt = 4.9%, 100 μ mol/L Aspirin, AggRt = 1.7%; 2ng/mL PAF-induced, AggRt = 2.4%, 100 μ mol/L Aspirin, AggRt = 2.1%)^[5427]. **Source:** SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), occurs in many plants. **Ref:** 1521, 5427.

**19994 β -Sitoseryl acetate**

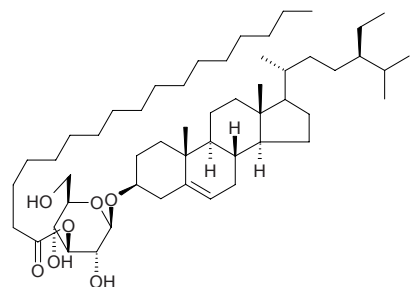
C₃₁H₅₂O₂ (456.76). mp 134°C. **Source:** QIAO MU ZI ZHU *Callicarpa arborea*. **Ref:** 6.

**19995 β -Sitoseryl ferulate**

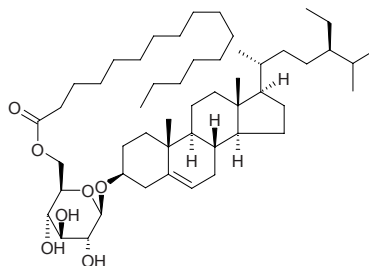
C₃₉H₅₈O₄ (590.89). mp 131.0~131.5°C. **Source:** MI PI KANG *Oryza sativa*. **Ref:** 6.

**19996 β -Sitoseryl glucoside 3'-O-heptadecoate**

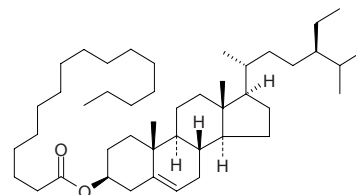
C₅₂H₉₂O₇ (829.31). **Source:** ROU CONG RONG *Cistanche deserticola*. **Ref:** 2448.

**19997 β -Sitoseryl-D-glucoside-6'-palmitate**

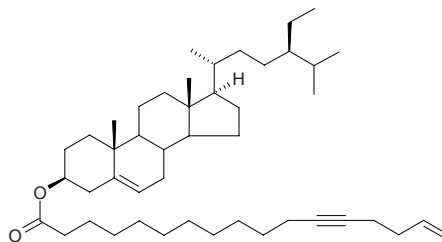
6'-O-Palmityl-sitoseryl-3-O- β -D-glucoside, Stoindoside I C₅₁H₉₀O₇ (815.28). $[\alpha]_D^{21} = -43^\circ$ ($c = 1.70$, CHCl₃). **Pharm:** Antiemetic (young male chicks, copper sulfate induced emesis assay, 50mg/kg, InRt = 50.9%, $p < 0.001$)^[4649]. **Source:** GAO LIANG JIANG *Alpinia officinarum* (rhizome: yield = 0.00087%dw), LONG XUE SHU *Dracaena draco* (stem cortex), DONG FANG GOU JI *Woodwardia orientalis*, YA PIAN *Papaver somniferum*, YI ZHU QIAN MA *Urtica dioica*, GE BI TIAN MEN *Asparagus gobicus* (root). **Ref:** 6, 2989, 4649, 4696, 4975.

**19998 β -Sitoseryl palmitate**

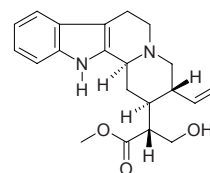
C₄₅H₈₀O₂ (653.14). mp 89°C. **Source:** PU HUANG *Typha angustata*, XIA YE XIANG PU *Typha angustifolia*. **Ref:** 2, 660.

**19999 β -Sitoseryl-3-O-scleropyrate**

C₄₆H₇₆O₂ (661.12). Amorphous. **Pharm:** Antitubercular inactive (*Mycobacterium tuberculosis* H₃₇Ra); antiplasmodial inactive (parasite *Plasmodium falciparum* K1 multidrug-resistant strain). **Source:** YING HE *Scleropyrum wallichianum* (twig). **Ref:** 4520.

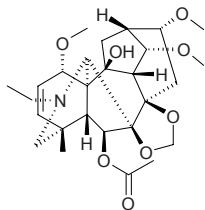
**20000 Sitsirikine**

[1245-00-7] C₂₁H₂₆N₂O₃ (354.45). mp 206~208°C. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2.

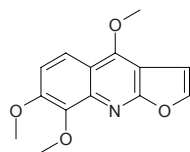


20001 Siwanine A

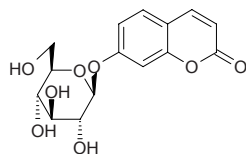
$C_{27}H_{39}NO_8$ (505.61). White amorphous powder. Source: QIN LING CUI QUE HUA *Delphinium giraldii*. Ref: 2506.

**20002 Skimmianine**

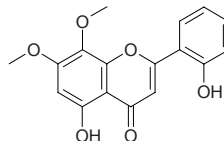
$C_{14}H_{13}NO_4$ (259.26). mp 176°C, Note: commonly in family *Rutaceae*. Pharm: Analgesic; anticonvulsant; antipyretic; CNS depressant; phototoxic (*Saccharomyces cerevisiae*, *Candida albicans*); photo-activated antibacterial (*Staphylococcus aureus*)^[4989]; photo-activated antifungal (*Candida albicans* weak)^[4989]; photo-activated DNA binding (restriction enzymes Xba I, Bci V I, Sal I, Pst I, Sph I and Hind III)^[4989]; cytotoxic (P₃₈₈ cell line, ED₅₀ = 2.5 μg/mL, control Mithramycin, ED₅₀ = 0.06 μg/mL; HT29, ED₅₀ = 7.2 μg/mL, Mithramycin, ED₅₀ = 0.07 μg/mL; A549, ED₅₀ = 0.12 μg/mL, Mithramycin, ED₅₀ = 0.08 μg/mL)^[5405]; LD₅₀ (mus, ip) = 150–250 mg/kg. Source: BAI SE BAI XIAN *Dictamnus albus*, BAI XIAN PI *Dictamnus dasycarpus*, CHOU CAO *Ruta graveolens*, CHOU SHAN YANG *Orixa japonica* (stem: yield = 0.00061% dw)^[4774], CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], GOU JU *Poncirus trifoliata*, HUA JIAO GEN *Zanthoxylum bungeanum*, HUA JIAO *Zanthoxylum bungeanum* (dried ripe pericarp: content scope = 0.0025%–0.0071%^[5501], content = 0.005%^[5508]), JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], QING JIAO *Zanthoxylum schinifolium* (dried ripe pericarp: content scope = 0.0251%–0.0471%^[5501], content = 0.045%^[5508]), SI ROU TUO GUO YE MI ZHU YU *Melicope semecarpifolia*, XIANG YIN YU *Skimmia japonica*, YIN YU *Skimmia reevesiana*, ZHU YE JIAO GEN *Zanthoxylum planispinum*, *Sarcomelicope glauca*. Ref: 6, 11, 658, 4774, 4989, 5405, 5501, 5508.

**20003 Skimmin**

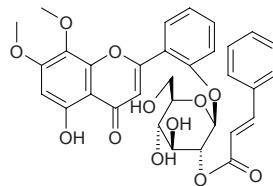
Umbelliferone 7-*O*-β-*D*-glucopyranoside $C_{15}H_{16}O_8$ (324.29). Amorphous powder, $[\alpha]_D^{24} = -48^\circ$, mp 219–221°C; mp 219–221°C. Source: BEI SHA SHEN *Glehnia littoralis* (fruit), CONG ZHU XUE LIAN *Saussurea tridactyla* var. *maidugonla*, GUANG RONG YIN YU *Skimmia laureola*, SANG YE *Morus alba* (leaf: yield = 0.0013%^[3507]), YIN YU *Skimmia reevesiana*, XIANG YIN YU *Skimmia japonica* (the compound was isolated from the plant by J.F.Eykman in 1844)^[5505], XIANG YIN YU *Skimmia japonica* (leaf), *Morus* sp. Ref: 6, 660, 1521, 2513, 3507, 3525, 5055.

**20004 Skullcapflavone I**

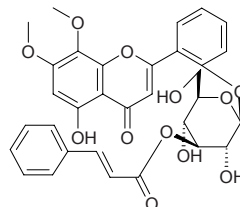
Panicolin [41060-16-6] $C_{17}H_{14}O_6$ (314.30). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], HUANG QIN *Scutellaria baicalensis*, SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 2, 4149.

**20005 Skullcapflavone I 2'-*O*-β-*D*-(2''-*E*-cinnamoyl)glucopyranoside**

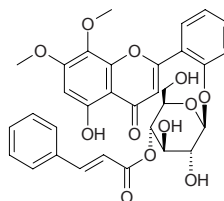
$C_{32}H_{30}O_{12}$ (606.59). Yellow amorphous powder (MeOH), mp 196–197°C, $[\alpha]_D^{25} = -0.15^\circ$ ($c = 4.0$, MeOH). Source: BAI LI XIANG YE CHUN XIN LIAN *Andrographis serpyllifolia*. Ref: 2354.

**20006 Skullcapflavone I 2'-*O*-β-*D*-(3''-*E*-cinnamoyl)glucopyranoside**

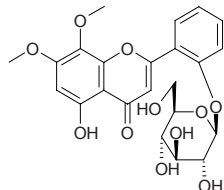
$C_{32}H_{30}O_{12}$ (606.59). Yellow amorphous powder (MeOH), mp 236–237°C, $[\alpha]_D^{25} = -0.09^\circ$ ($c = 5.0$, MeOH). Source: BAI LI XIANG YE CHUN XIN LIAN *Andrographis serpyllifolia*. Ref: 2354.

**20007 Skullcapflavone I 2'-*O*-β-*D*-(4''-*E*-cinnamyl)glucopyranoside**

$C_{32}H_{30}O_{12}$ (606.59). Yellow amorphous powder, mp 247–249°C (MeOH), $[\alpha]_D^{25} = -12.0^\circ$ ($c = 4.0$, MeOH). Source: SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 4149.

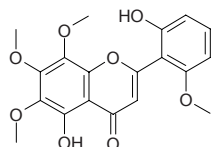
**20008 Skullcapflavone I 2'-*O*-β-*D*-glucopyranoside**

$C_{23}H_{24}O_{11}$ (476.44). Source: SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 4149.

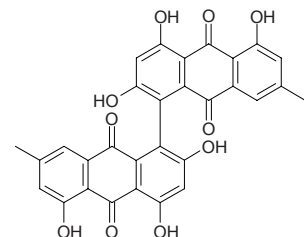


20009 Skullcapflavone II

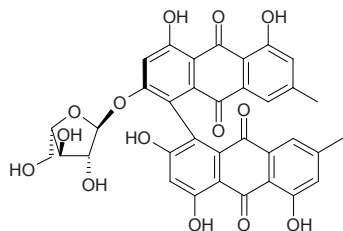
5,2'-Dihydroxy-6,7,8,6'-tetamethoxyflavone [55084-08-7] C₁₉H₁₈O₈ (374.35). Yellow pillar crystals, mp 180–181°C; yellow lamellar crystals (methanol), mp 194–196°C. **Pharm:** Antineoplastic (ICR mus S₁₈₀, biotic prolonged rate = 172%); antithrombotic (1.0mmol/L, inhibits platelet aggregation due to collagen, InRt = 32.5%); bradykinin antagonist; cytotoxic (*in vitro*, L₁₂₁₀ ED₅₀ = 1.5µg/mL); antihistamine (inhibits histamine release, *in vitro*, rat peritoneal giant cells, IC₅₀ = 15.0µmol/L); trypsin inhibitor (IC₅₀ = 18µmol/L); cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)^[5369]; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC₅₀ > 60µmol/L)^[5369]. **Source:** DIAN HUANG QIN *Scutellaria amoena*, HUANG QIN *Scutellaria baicalensis* (dried root: mean content = 0.055%^[5508]), NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 658, 660, 900, 5369, 5508.

**20010 Skyrin**

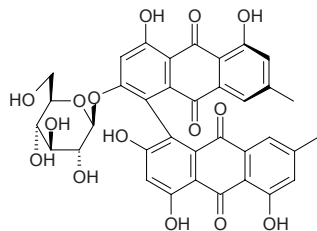
C₃₀H₁₈O₁₀ (538.47). **Pharm:** Cytotoxic (*in vitro*, Calu1, IC₅₀ = (14.3±2.5)µmol/L; HeLa, IC₅₀ = (11.3±3.5)µmol/L; K562, IC₅₀ = (27.3±5.0)µmol/L; Raji, IC₅₀ = (12.3±4.1)µmol/L; Vero, IC₅₀ = (18.3±2.6)µmol/L; Wish, IC₅₀ = (21.3±3.2)µmol/L, 1,3,8-trihydroxy for anthraquinone plays a significant role in the cytotoxic activity). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**20011 S-(+)-Skyrin-6-O-α-arabinofuranoside**

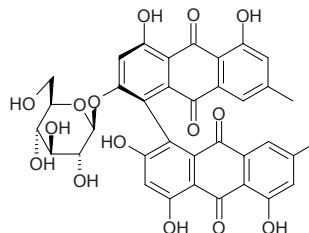
C₃₅H₂₆O₁₄ (670.59). Red-orange amorphous powder. **Source:** GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts). **Ref:** 5119.

**20012 R(-)-Skyrin-6-O-β-glucopyranoside**

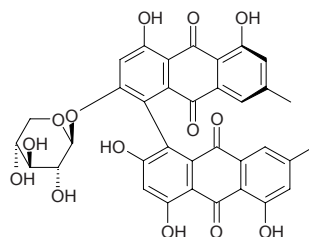
C₃₆H₂₈O₁₅ (700.62). Red-orange amorphous powder, mp > 300°C. **Pharm:** Inhibits [¹²⁵I]sauvagine binding to CRH-1 receptor (IC₅₀ = 4µmol/L). **Source:** GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts). **Ref:** 5119.

**20013 S-(+)-Skyrin-6-O-β-glucopyranoside**

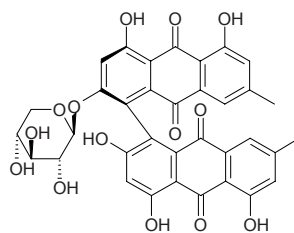
C₃₆H₂₈O₁₅ (700.62). Red-orange amorphous powder, mp > 300°C. **Pharm:** Inhibits [¹²⁵I]sauvagine binding to CRH-1 receptor (IC₅₀ = 1µmol/L). **Source:** GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts). **Ref:** 5119.

**20014 R(-)-Skyrin-6-O-β-D-xylopyranoside**

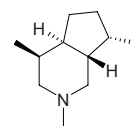
C₃₅H₂₆O₁₄ (670.59). Orange-red amorphous powder. **Source:** YUAN BAO CAO *Hypericum sampsonii* (whole herb). **Ref:** 4055.

**20015 S-(+)-Skyrin-6-O-β-D-xylopyranoside**

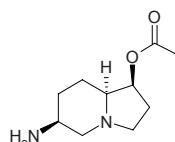
C₃₅H₂₆O₁₄ (670.59). Red-orange amorphous powder. **Source:** GUAN YE LIAN QIAO *Hypericum perforatum* (aerial parts). **Ref:** 5119.

**20016 β-Skytanthine**

C₁₁H₂₁N (167.30). **Pharm:** Low toxin; tremorigenic agent. **Source:** family Asteraceae spp. **Ref:** 658.

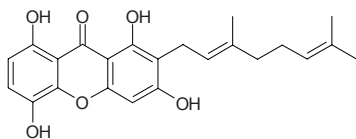
**20017 Slaframine**

C₁₀H₁₈N₂O₂ (198.27). **Pharm:** Parasympathomimetic. **Source:** SAN XIAO CAO *Trifolium repens*. **Ref:** 658

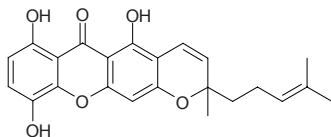


20018 Smeathxanthone A

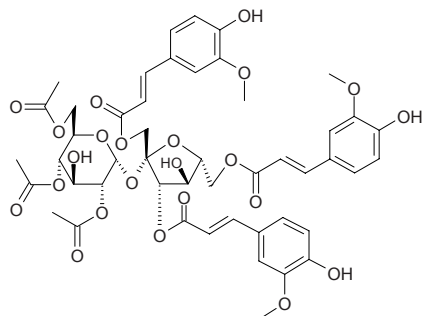
2-(3,7-Dimethyl-2,6-octadienyl)-1,3,5,8-tetrahydroxyxanthone C₂₃H₂₄O₆ (396.44). Yellow crystals, mp 216~218°C. **Pharm:** Antibacterial (*In vitro*, *Escherichia coli*, MIC = 156.25µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Klebsiella pneumoniae*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Proteus vulgaris*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 5µg/mL; *Salmonella typhimurium*, MIC = 156.25µg/mL, Gentamicin/Nystatin, MIC = 5µg/mL; *Staphylococcus aureus*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Streptococcus faecalis*, MIC = 156.25µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL); antifungal (*Candida albicans*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 30µg/mL; *Candida krusei*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 30µg/mL). **Source:** *Garcinia smeathmannii* (stem cortex). **Ref:** 5310.

**20019 Smeathxanthone B**

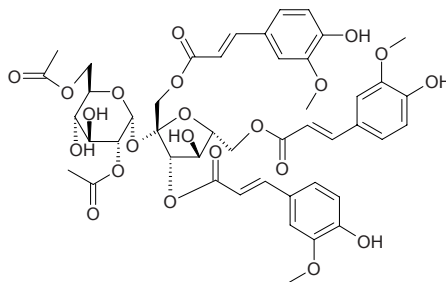
5,7,10-Trihydroxy-2-methyl-2-(4-methylpent-3-enyl)[2*H*,6*H*]pyran[3,2-*b*]xanthen-6-one C₂₃H₂₂O₆ (394.43). Yellow crystals, mp 187~189°C, [α]_D²² = +30.3° (*c* = 0.02, MeOH). **Pharm:** Antibacterial (*In vitro*, *Escherichia coli*, MIC = 625µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Klebsiella pneumoniae*, MIC = 625µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Proteus vulgaris*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 5µg/mL; *Salmonella typhimurium*, MIC = 625µg/mL, Gentamicin/Nystatin, MIC = 5µg/mL; *Staphylococcus aureus*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL; *Streptococcus faecalis*, MIC = 625µg/mL, Gentamicin/Nystatin, MIC = 10µg/mL); antifungal (*Candida albicans*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 30µg/mL; *Candida krusei*, MIC = 312.5µg/mL, Gentamicin/Nystatin, MIC = 30µg/mL). **Source:** *Garcinia smeathmannii* (stem cortex). **Ref:** 5310.

**20020 Smiglaside A**

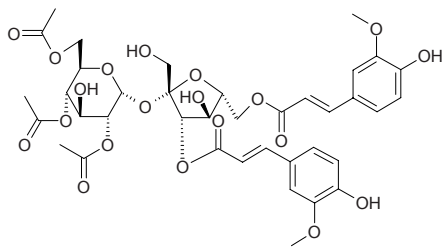
C₄₈H₅₂O₂₃ (996.94). Amorphous powder, [α]_D = 79.53° (*c* = 0.4, MeOH). **Source:** TU FU LING *Smilax glabra*. **Ref:** 771.

**20021 Smiglaside B**

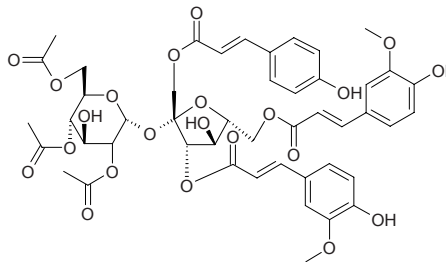
C₄₆H₅₀O₂₂ (954.9). Yellowish amorphous powder, [α]_D = 36.65° (*c* = 0.7, MeOH). **Source:** TU FU LING *Smilax glabra*. **Ref:** 771.

**20022 Smiglaside C**

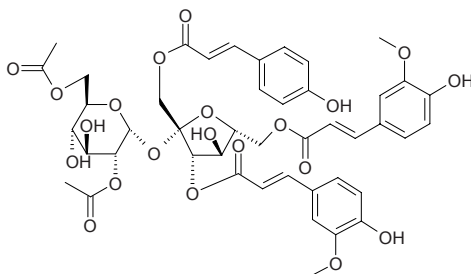
C₃₈H₄₄O₂₀ (820.76). Amorphous powder, [α]_D = 32.86° (*c* = 0.6, MeOH). **Source:** TU FU LING *Smilax glabra*. **Ref:** 771.

**20023 Smiglaside D**

C₄₇H₅₀O₂₂ (966.91). Amorphous powder, [α]_D = 67.14° (*c* = 0.5, MeOH). **Source:** TU FU LING *Smilax glabra*. **Ref:** 771.

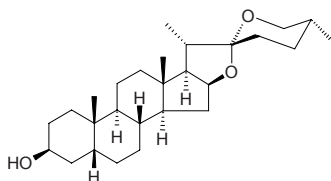
**20024 Smiglaside E**

C₄₅H₄₈O₂₁ (924.87). Amorphous powder, [α]_D = 123.84° (*c* = 0.4, MeOH). **Source:** TU FU LING *Smilax glabra*. **Ref:** 771.

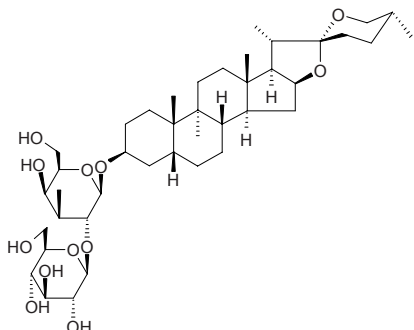


20025 Smilagenin

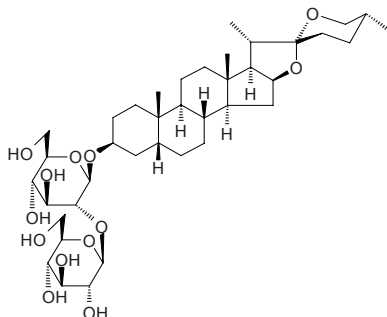
Isosarsapogenin $C_{27}H_{44}O_3$ (416.65). mp 183~184°C. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2.

**20026 Smilagenin-3-O-β-D-glucopyranosyl (1→2)-β-D-galactopyranoside**

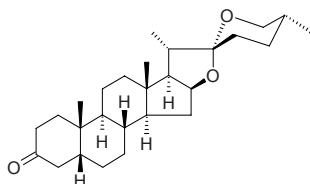
$C_{40}H_{66}O_{12}$ (738.96). Source: XIE BAI *Allium macrostemon*. Ref: 660.

**20027 Smilagenin-3-O-[β-D-glucopyranosyl(1→2)]-β-D-mannopyranoside**

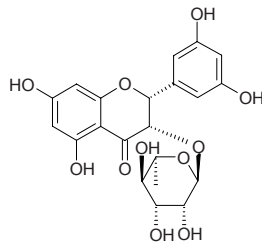
Isosarsapogenin-3-O-[β-D-glucopyranosyl(1→2)]-β-D-mannopyranoside $C_{39}H_{64}O_{13}$ (740.94). White granular crystals, mp 265~267°C, $[\alpha]_D^{12} = -189.3^\circ$. Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 199.

**20028 Smilagenone**

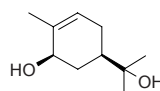
$C_{27}H_{42}O_3$ (414.63). It only exists in moldy source plants and causes the quality of the diosgenin products to decrease. Source: CHA RUI SHU YU *Dioscorea collettii*, CHUAN LONG SHU YU *Dioscorea nipponica*, DUN YE SHU YU *Dioscorea zingiberensis*, FU ZHOU SHU YU *Dioscorea futschauensis*, SHU KUI YE SHU YU *Dioscorea althaeoides*. Ref: 10.

**20029 Smitilbin**

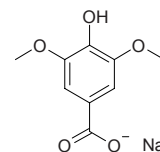
$C_{21}H_{22}O_{11}$ (450.40). Source: TU FU LING *Smilax glabra*. Ref: 714.

**20030 Sobrerol**

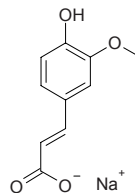
Sobrepin [498-71-5] $C_{10}H_{18}O_2$ (170.25). Pharm: Antineoplastic (reduces markedly morbidity of mammary cancer). Source: occurs in many plants (vegetables and fruits). Ref: 1521, 1582.

**20031 Sodium syringate**

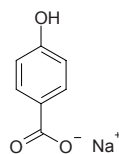
$C_9H_9NaO_5$ (220.16). Source: *Eurycoma* sp. Ref: 4556.

**20032 Sodium ferulate**

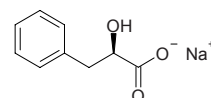
$C_{10}H_9NaO_4$ (216.17). White amorphous powder. Source: XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2187.

**20033 Sodium p-hydroxybenzoate**

$C_7H_5NaO_3$ (160.11). Source: *Eurycoma* sp. Ref: 4556.

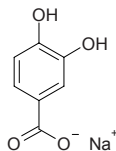
**20034 (2R)-Sodium 3-phenyllactate**

$C_9H_9NaO_3$ (188.16). Colorless needles, mp > 280°C, (MeOH), $[\alpha]_D^{25} = -26.8^\circ$ ($c = 0.0025$, MeOH). Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = yield = 0.00051%dw). Ref: 4722.

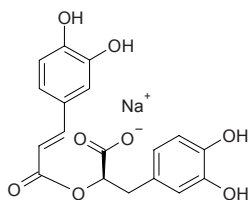


20035 Sodium protocatechuate

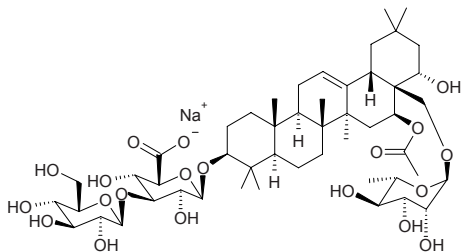
$C_7H_5NaO_4$ (176.11). Source: *Eurycoma* sp. Ref: 4556.

**20036 Sodium rosmarinate**

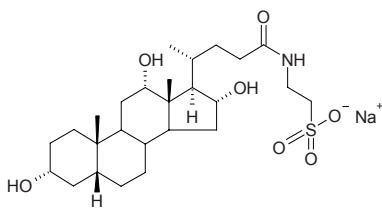
$C_{18}H_{15}NaO_8$ (382.31). White amorphous powder. Source: XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2187.

**20037 Sodium salt of alternoside II**

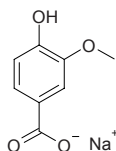
$C_{50}H_{79}NaO_{20}$ (1023.16). Amorphous powder, mp 294–296°C, $[\alpha]_D^{20} = +1.5^\circ$ ($c = 0.19$, MeOH). Pharm: Anti-sweetener. Source: CHI GENG TENG *Gymnema sylvestris* (leaf: yield = yield = 0.0040%dw). Ref: 3037.

**20038 Sodium taurophythocholate**

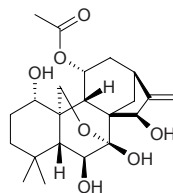
$C_{26}H_{44}NNaO_7S$ (537.70). White powder, mp 192–194°C. Source: MANG SHE *Python molurus bivittatus*. Ref: 240.

**20039 Sodium vanillate**

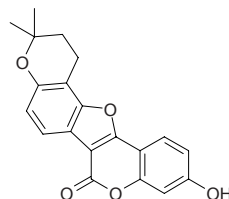
$C_8H_7NaO_4$ (190.13). Source: *Eurycoma* sp. Ref: 4556.

**20040 Sodopinin**

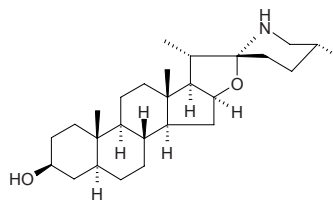
$C_{22}H_{32}O_7$ (408.50). mp 229–231.5°C, $[\alpha]_D^{28} = +45.7^\circ$ ($c = 1.0$, $CHCl_3$). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). Ref: 3808, 4067.

**20041 Sojagol**

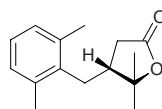
$C_{20}H_{16}O_5$ (336.35). Pharm: Antifungal; estrogenic activity. Source: HEI DA DOU *Glycine max*. Ref: 658.

**20042 Soladulcidine**

Soladulcidine $C_{27}H_{45}NO_2$ (415.67). mp 209–211°C, $[\alpha]_D = -50^\circ$ ($c = 0.4$, chloroform). Pharm: Antifungal (*Claviceps purpurea*, *Sclerotinia*, *Trichothecium roseum*). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*, BAI MAO TENG *Solanum lyratum*. Ref: 6, 658, 660.

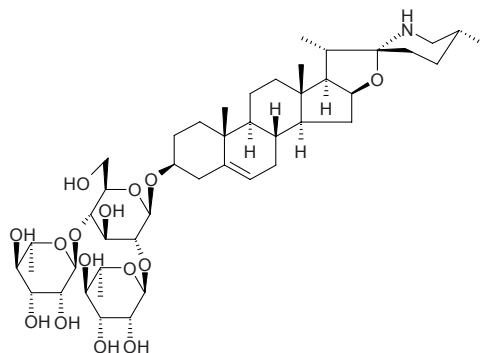
**20043 Solafuranone**

$C_{15}H_{20}O_2$ (232.33). White solid (EtOAc/hexane), mp 132–133°C, $[\alpha]_D^{25} = +14.0^\circ$ ($c = 1.0$, CH_3CN). Source: TIAN QIE ZI *Solanum indicum* (root). Ref: 3087.

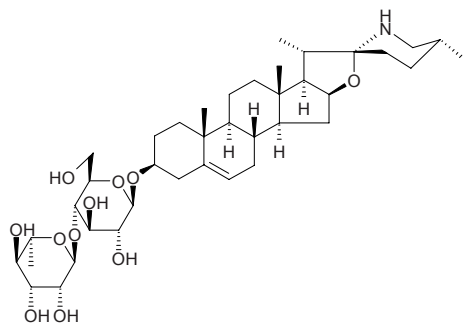


20044 Solamargine

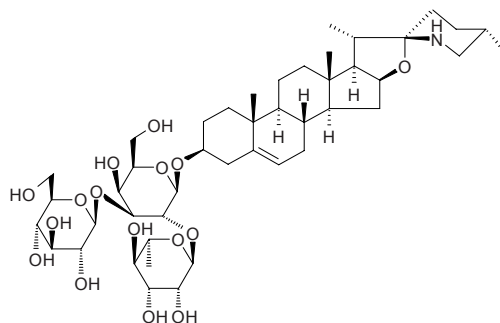
$C_{45}H_{73}NO_{15}$ (868.08). mp 293–295°C. Pharm: Antibacterial; antineoplastic (mus, S_{180} , ED = 30mg/kg). Source: BAI MAO TENG *Solanum lyratum*, CI TIAN QIE *Solanum khasianum*, LA JIAO *Capsicum frutescens*, LONG KUI *Solanum nigrum* (whole herb: content = 0.20%^[5508]), QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 658, 660, 5508.

**20045 β -Solamargine**

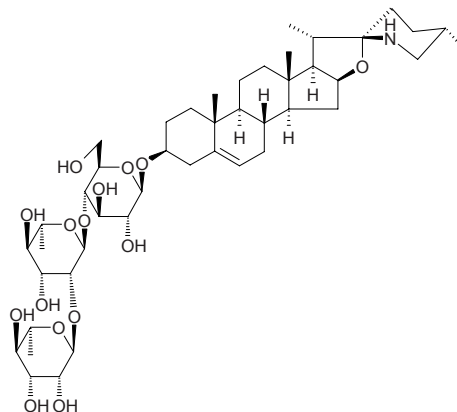
$C_{39}H_{63}NO_{11}$ (721.94). Source: YE DIAN QIE *Solanum surattense*. Ref: 6.

**20046 α -Solamarine**

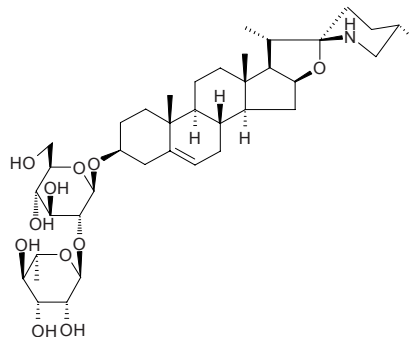
$C_{45}H_{73}NO_{16}$ (884.08). mp 278–281°C (dec). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 660.

**20047 β -Solamarine**

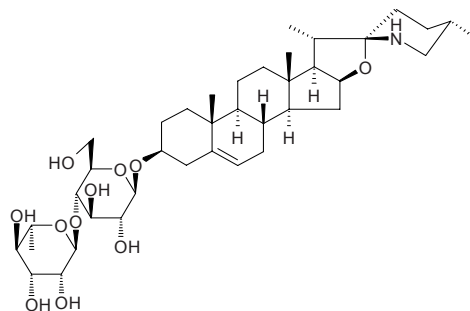
[3671-38-3] $C_{45}H_{73}NO_{15}$ (868.08). mp 275–277°C (dec). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 5, 6, 660.

**20048 γ_1 -Solamarine**

$C_{39}H_{63}NO_{11}$ (721.94). mp 268–271°C (dec). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6.

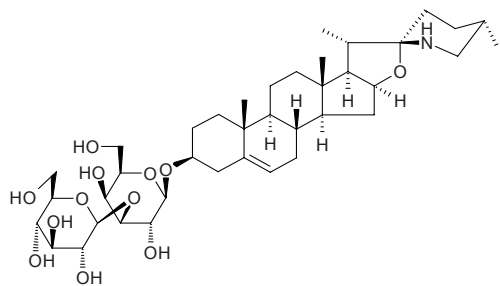
**20049 γ_2 -Solamarine**

$C_{39}H_{63}NO_{11}$ (721.94). mp 243–248°C (dec). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6.

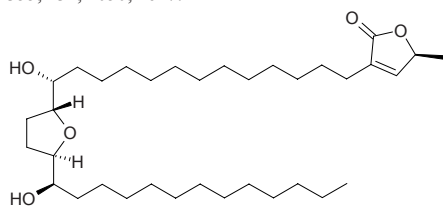


20050 δ -Solamarine

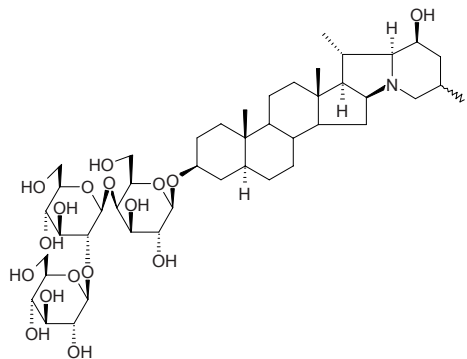
$C_{39}H_{63}NO_{12}$ (737.94). mp 265–269°C (dec). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6.

**20051 Solamin**

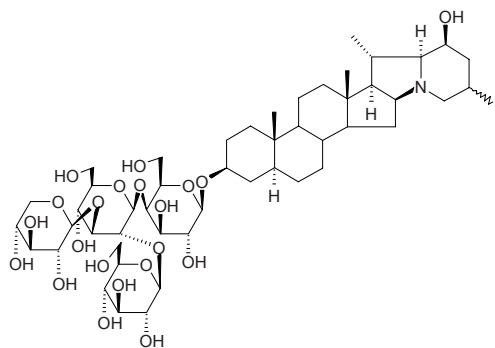
[138682-32-3] $C_{35}H_{64}O_5$ (564.90). White crystals, mp 74–75°C. Pharm: Cytotoxic (P_{388} , $ED_{50} = 0.04\mu\text{g/mL}$; KB, $ED_{50} = 0.3\mu\text{g/mL}$). Source: CI GUO FAN LI ZHI *Annona muricata* (leaf: yield = 0.00025%dw)^[4617], GUANG YE ZI YU PAN *Uvaria boniana*, NIU XIN FAN LI ZHI *Annona reticulata*. Ref: 355, 432, 1050, 4617.

**20052 (25 ζ)-Solanidan-3 β ,23 β -dihydroxy 3-O- β -D-glucopyranosyl (1 \rightarrow 2)- β -D-glucopyranosyl (1 \rightarrow 4)- β -D-galactopyranoside**

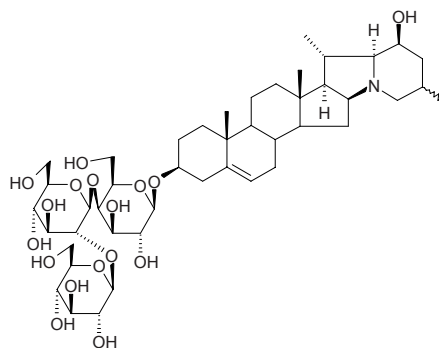
$C_{45}H_{75}NO_{17}$ (902.10). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.

**20053 (25 ζ)-Solanidan-3 β ,23 β -dihydroxy 3-O- β -D-glucopyranosyl (1 \rightarrow 2)- β -D-xylopyranosyl (1 \rightarrow 3)- β -D-glucopyranosyl (1 \rightarrow 4)- β -D-galactopyranoside**

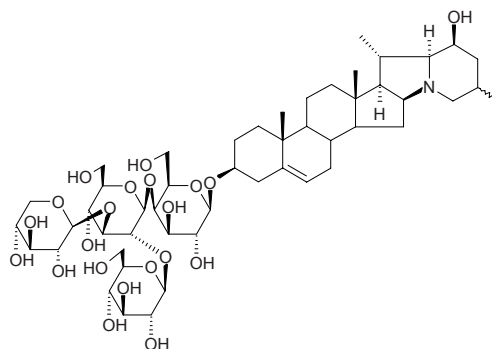
$C_{50}H_{83}NO_{21}$ (1034.21). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.

**20054 (25 ζ)-Solanid-5-en-3 β ,23 β -dihydroxy 3-O- β -D-glucopyranosyl (1 \rightarrow 2)- β -D-glucopyranosyl (1 \rightarrow 4)- β -D-galactopyranoside**

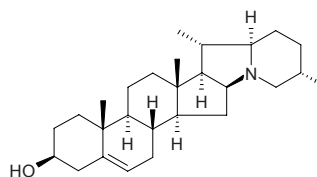
$C_{45}H_{73}NO_{17}$ (900.08). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.

**20055 (25 ζ)-Solanid-5-en-3 β ,22 β -dihydroxy 3-O- β -D-glucopyranosyl (1 \rightarrow 2)- β -D-xylopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside**

$C_{50}H_{81}NO_{21}$ (1032.20). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.

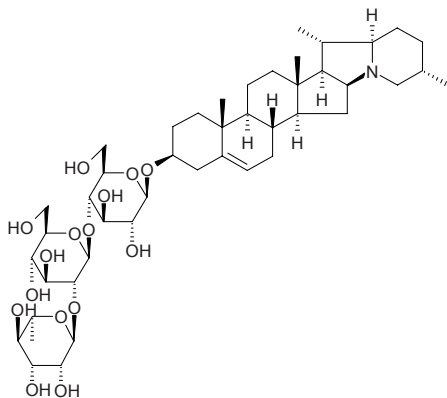
**20056 Solanidine**

[80-78-4] $C_{27}H_{43}NO$ (397.65). mp 218–219°C. Pharm: Cardiotonic (frog heart, *in vitro*); toxin. Source: CHUAN BEI MU *Fritillaria cirrhosa*, HEI BAI HE *Fritillaria camtschaticensis*, LA JIAO *Capsicum frutescens*, LI LU *Veratrum nigrum*, LONG KUI *Solanum nigrum*, MA LING SHU *Solanum tuberosum*, MAO YE LI LU *Veratrum grandiflorum*, ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 6, 658, 2201.



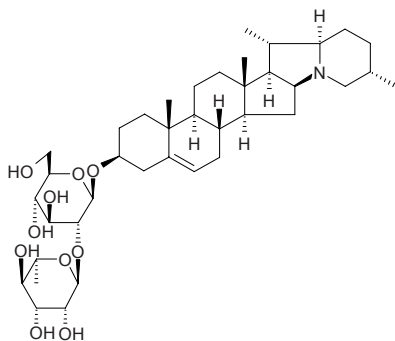
20057 Solanidine-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside

[81942-09-8] C₄₅H₇₃NO₁₅ (868.08). mp 278~283°C, [α]_D = -58.4° (c = 0.9, pyridine). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2201.



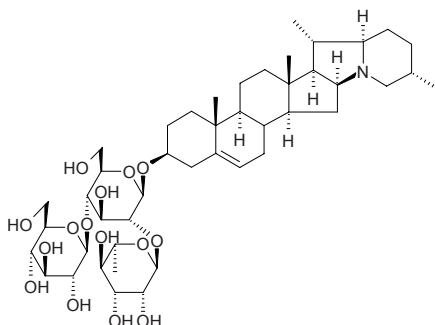
20058 Solanidine-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside

C₃₉H₆₃NO₁₀ (705.94). mp 287~292°C, [α]_D = -52.5° (c = 0.9, pyridine). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 2201.



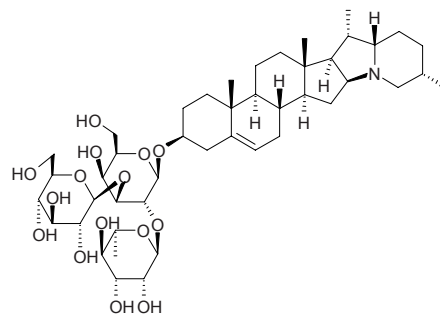
20059 Solanidine 3-O- α -L-rhamnopyranosyl (1 \rightarrow 2)-[β -D-glucopyranosyl (1 \rightarrow 4)]- β -D-glucopyranoside

C₄₅H₇₃NO₁₅ (868.08). Source: JIA BAI HE *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*]. Ref: 660.



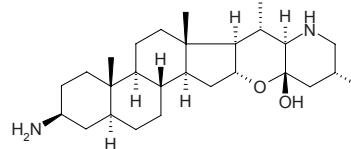
20060 Solanine

α -Solanine [20562-02-1] C₄₅H₇₃NO₁₅ (868.08). Tiny acicular crystals(85% ethanol), mp 190°C turn brown lump, 285 (dec), [α]_D²² = -60° (pyridine). Pharm: Antineoplastic (S₁₈₀ and ascites carcinoma); antifungal (*Aspergillus niger* and *Candida albicans*); hemolytic; increases level of blood sugar (rat, ip, 5~30mg/kg, inhibits use of glucose); smooth muscle stimulant; teratogen (pregnant mus); toxin (hmn, orl, 2.8mg/kg poisoning); LD₅₀ (mus, ip, chloride) = 42mg/kg, (rat, ip, chloride) = 67mg/kg. Source: MA LING SHU *Solanum tuberosum*, LONG KUI *Solanum nigrum*, FAN QIE *Lycopersicon esculentum*. Ref: 658, 6, 1371.



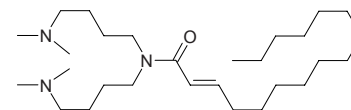
20061 Solanocapsine

[639-86-1] C₂₇H₄₆N₂O₂ (430.68). mp 222°C. Pharm: Antibacterial (in serum, *Mycobacterium tuberculosis*, *Diplococcus pneumoniae*); slows heart rate; toxin (hmn, tolerance dose = 60~84mg). Source: YE HAI JIAO *Solanum capsicastrum*, YU SHAN HU GEN *Solanum pseudo-capsicum*. Ref: 6, 658.



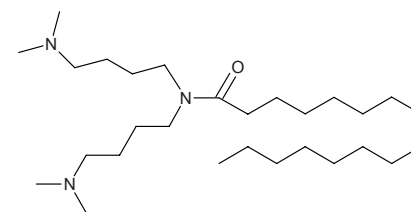
20062 Solapalmitine

[17232-86-9] C₂₈H₅₇N₃O (451.79). Oil, bp 153°C/0.08mmHg (bath). Pharm: Antineoplastic (rat, W₂₅₆, ED₅₀ = 0.36mg/kg); cytotoxic (KB, *in vitro*). Source: SAN LIE QIE *Solanum tripartitum*. Ref: 661.



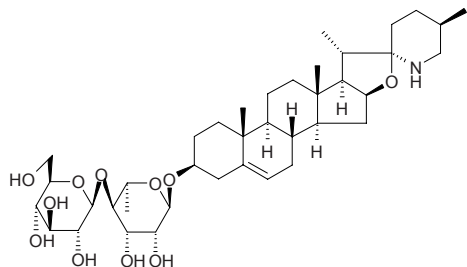
20063 Solapalmitine

[17232-85-8] C₂₈H₅₉N₃O (453.80). Oil, bp 150°C/0.05mmHg (bath). Pharm: Antineoplastic (rat, W₂₅₆, ED₅₀ = 0.36mg/kg); cytotoxic (KB, *in vitro*). Source: SAN LIE QIE *Solanum tripartitum*. Ref: 661.

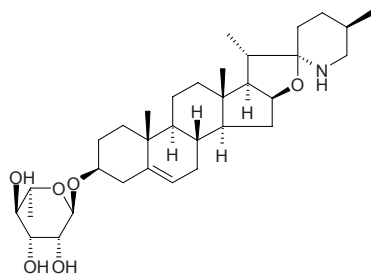


20064 Solaplumbine

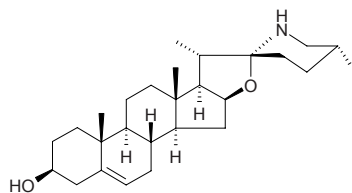
[54302-48-6] C₃₉H₆₃NO₁₁ (721.94). Yellowish acicular crystals(ethanol-benzene), mp 180°C, $[\alpha]_D^{22} = -90^\circ$ ($c = 1$, methanol). **Pharm:** Antineoplastic (mus, W₂₅₆, 15mg/kg, InRt = 87%). **Source:** HUI YE YAN CAO *Nicotiana plumbaginifolia*. **Ref:** 661.

**20065 Solaplumbinine**

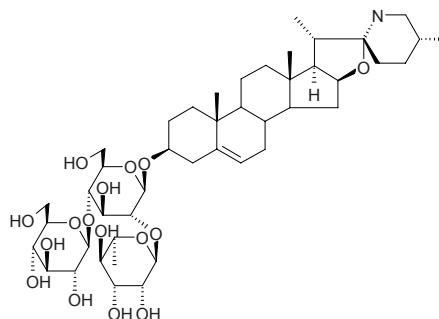
C₃₃H₅₃NO₆ (559.79). White amorphous powder, mp 184–185°C, $[\alpha]_D^{22} = -39.5^\circ$ ($c = 1$, methanol). **Pharm:** Antineoplastic (mus W₂₅₆, 10mg/kg, InRt = 83%, 20mg/kg, InRt = 89%). **Source:** HUI YE YAN CAO *Nicotiana plumbaginifolia*. **Ref:** 661.

**20066 Solasodine**

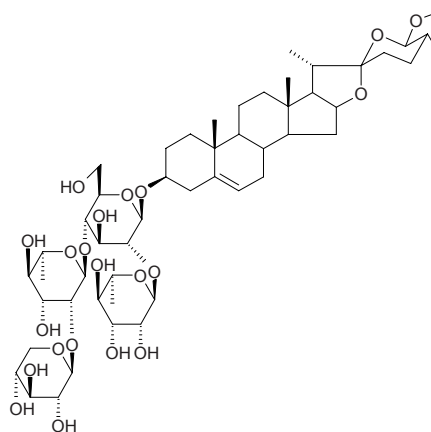
[126-17-0] C₂₇H₄₃NO₂ (413.65). mp 202°C. **Pharm:** Anti-inflammatory (reduces permeability of blood capillary and activity of hyaluronidase); antipyretic (rat, 3mg/kg sc, body temperature goes down 1.5°C and maintains 24h, mus, body temperature goes down 2.0°C and maintains 48h); increases level of blood sugar (glucocorticoid); teratogen (pregnant rat, 180mg orl, defect rate = 25.8%); LD₅₀ (mus, ip) = 898mg/kg, (rat, ip) = 395mg/kg, (gpg, ip) = 103mg/kg. **Source:** AO ZHOU QIE *Solanum aviculare* [Syn. *Solanum laciniatum*], CI TIAN QIE *Solanum khasianum*, HEI BAI HE *Fritillaria camtschaticensis*, LA JIAO *Capsicum frutescens*, LONG KUI *Solanum nigrum* (whole herb: content = 0.25%^[5508]), QIAN NIAN BU LAN XIN *Solanum dulcamara*, QIE YE *Solanum melongena*, SU XIN YE BAI YING *Solanum jasminoides*, TIAN QIE ZI *Solanum indicum*. **Ref:** 6, 658, 660, 5508.

**20067 Solasodine 3-O-α-L-rhamnopyranosyl (1→2)-O-β-D-glucopyranosyl (1→4)-β-D-glucopyranoside**

C₄₅H₇₃NO₁₆ (884.08). **Source:** BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*]. **Ref:** 660.

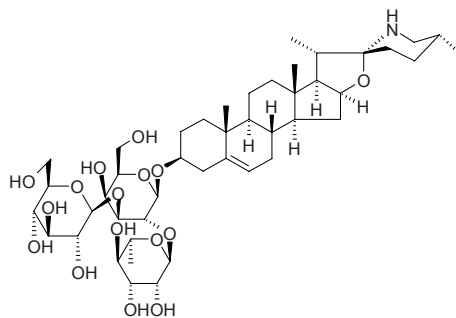
**20068 Solasodoside A**

(2*R*,26*R*)-26-Methoxyspirost-5-en-3β-ol 3-O-{O-α-L-rhamnopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→2)-O-α-L-rhamnopyranosyl-(1→4)}-β-D-glucopyranoside; C₅₁H₈₂O₂₁ (1031.21). Amorphous powder. **Pharm:** Cytotoxic (antiproliferative, HL-60 cells *in vitro*, GI₅₀ > 80.0μmol/L, control Cisplatin, GI₅₀ = 8.5μmol/L). **Source:** SUO DUO MI QIE *Solanum sodomeum* [Syn. *Solanum sodomaemum*] (underground parts: yield = 0.0036%fw). **Ref:** 1158.

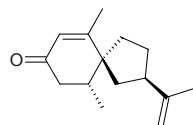


20069 Solasonine

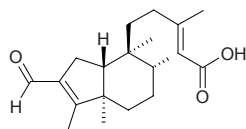
[19121-58-5] $C_{45}H_{73}NO_{16}$ (884.08). mp 301~303°C. **Pharm:** Antineoplastic (S₁₈₀); bidirectional action to CNS system (rat and rbt, stimulates in low dose, inhibits in high dose); hemolytic; platelet aggregation inhibitor; increases level of blood sugar (rat, ip, 50~100mg/kg); stimulates heart; toxin. **Source:** AO ZHOU QIE *Solanum aviculare* [Syn. *Solanum laciniatum*], BAI MAO TENG *Solanum lyratum*, CI TIAN QIE *Solanum khasianum*, HUANG GUO QIE *Solanum xanthocarpum*, HUI BAI QIE *Solanum incanum*, LA JIAO *Capsicum frutescens*, LONG KUI *Solanum nigrum*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, QIE ZI *Solanum melongena*, SHUI QIE *Solanum torvum*, SU XIN YE BAI YING *Solanum jasminoides*, SUO DUO MI QIE *Solanum sodomeum* [Syn. *Solanum sodomaemum*], XIAO LU QIE *Solanum viarum*, YE DIAN QIE *Solanum surattense*, YE YAN YE *Solanum verbascifolium*, *Solanum* sp. **Ref:** 6, 658, 660.

**20070 Solavetivone**

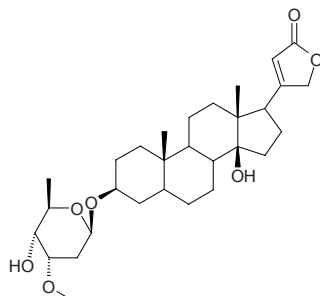
[54878-25-0] $C_{15}H_{22}O$ (218.34). **Pharm:** Cytotoxic (*in vitro*, OVCAR-3, IC₅₀ = 0.1mmol/L)^[3087]; antifungal. **Source:** MA LING SHU *Solanum tuberosum*, TIAN QIE ZI *Solanum indicum* (root)^[3087], YAN CAO *Nicotiana tabacum*. **Ref:** 658, 3087.

**20071 Solidagonal acid**

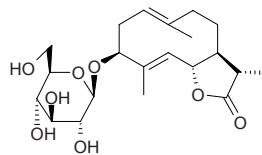
[97868-05-8] $C_{20}H_{30}O_3$ (318.46). **Source:** GAO YI ZHI HUANG HUA *Solidago altissima*. **Ref:** 4049.

**20072 Somalin**

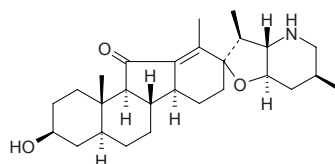
$C_{30}H_{46}O_7$ (518.70). mp 240~246°C. **Source:** FU SHOU CAO *Adonis amurensis* (root: content = 0.056%^[5508]) **Ref:** 6, 1521, 5508.

**20073 Sonchuside A**

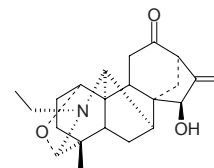
$C_{21}H_{32}O_8$ (412.48). **Source:** DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*. **Ref:** 5357.

**20074 Songbeisine**

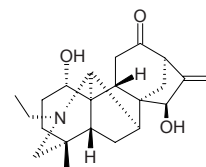
$C_{27}H_{41}NO_3$ (427.63). **Source:** AN ZI BEI MU *Fritillaria unibracteata*. **Ref:** 2.

**20075 Songoramine**

[23179-78-4] $C_{22}H_{29}NO_3$ (355.48). Colorless oil, mp 211~212°C, $[\alpha]_D^{26} = -44.2^\circ$ ($c = 0.266$, $CHCl_3$). **Source:** XUAN WEI WU TOU *Aconitum nagarum* var. *lasiandrum*, WU TOU *Aconitum carmichaeli*. **Ref:** 660, 461.

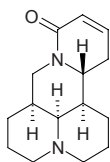
**20076 Songorine**

[509-24-0] $C_{22}H_{31}NO_3$ (350.51). Crystals (acetone-ether), mp 201~203°C, $[\alpha]_D^{25} = 136^\circ$ ($c = 2.5$, methanol). hydrochloride crystals, mp 257~258, $[\alpha]_D^{22} = -114^\circ$ ($c = 2$, water). **Pharm:** CNS depressant (high dose); CNS stimulant (low dose); antihypertensive (high dose); inhibits spontaneous movement (mus, 400mg/kg, sc); sedative; antipyretic (rbi); LD₅₀ (mus, orl) = 1575mg/kg, (mus, sc) = 630mg/kg, (mus, ip) = 485mg/kg, (mus, iv) = 142.5mg/kg. **Source:** DUO GEN WU TOU *Aconitum karakolicum*, SHAN DI WU TOU *Aconitum monticola*, WU TOU *Aconitum carmichaeli*, XUAN WEI WU TOU *Aconitum nagarum* var. *lasiandrum*, ZHUN GE ER WU TOU *Aconitum soongaricum*. **Ref:** 6, 658.

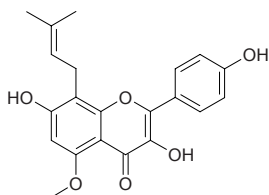


20077 Sophocarpine

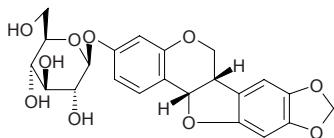
[6483-15-4] $C_{15}H_{22}N_2O$ (246.36). mp 52~53°C, 57~58°C. **Pharm:** Antiasthmatic (gpg, asthma induced by acetylcholine chloride and histamine, mus, 12.8mg/kg orl, InRt = 88%, $p < 0.01$); antineoplastic (animals, transplant tumor, InRt = (31~56)%); increases blood pressure (rbt, iv, bromide 20mg/kg, 2.23kPa); inhibits spontaneous movement (mus); stimulates heart (homother- mal animals, poikilotherms, *in vitro*); LD₅₀ (mus, orl) = 241.5mg/kg, (mus, im) = 92.41mg/kg, (rat, ip) = 120mg/kg, (rat, im) = 130mg/kg, (rat, sc) = 185mg/kg, (rat, orl) = 198mg/kg, (mus, orl, bromide) = 297.5mg/kg, (mus, im, bromide) = 101.4mg/kg, (mus, iv, bromide) = 73.64mg/kg. **Source:** BAI CI HUA *Sophora vicifolia*, GAN SU HUAI SHU *Sophora pachycarpa*, KU DOU ZI *Sophora alopecuroides* (seed: content = 0.058%^[5508]), KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = 0.08%~0.73%, mean content = 0.34%^[5508]), SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 4, 546, 564, 593, 658, 5501, 5508.

**20078 Sophoflavescenol**

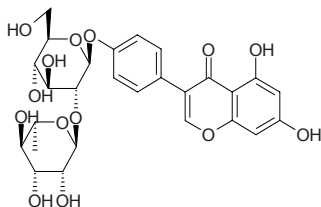
$C_{21}H_{20}O_6$ (368.39). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 4430.

**20079 Sophojaponicin**

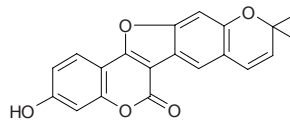
$C_{22}H_{22}O_{10}$ (446.40). Colorless prismatic or acicular crystals (methanol), mp 202~204 (dec), $[\alpha]_D^{17} = -104^\circ$ ($c = 0.70$, acetic acid). **Pharm:** Antineoplastic (mus S₁₈₀ entity tumor); LD₅₀ (mus, ip) = 200~250mg/kg, (rat, ip) = 300mg/kg. **Source:** HUAI *Sophora japonica*. **Ref:** 661.

**20080 Sophorabioside**

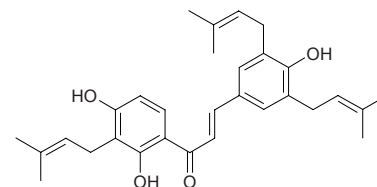
$C_{27}H_{30}O_{14}$ (578.53). mp 247°C. **Source:** HUAI *Sophora japonica* (pericarp)^[3080], HUAI JIAO *Sophora japonica*. **Ref:** 6, 3080.

**20081 Sophoracoumestan A**

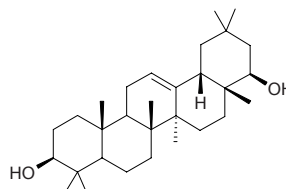
$C_{20}H_{14}O_5$ (334.33). **Source:** BU GU ZHI *Psoralea corylifolia*. **Ref:** 660.

**20082 Sophoradin**

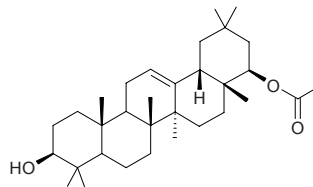
[23057-54-7] $C_{30}H_{36}O_4$ (460.62). Yellow acicular crystals (diethyl ether-hexane), mp 161°C. **Pharm:** Antiulcerative; gastric secretion inhibitor (rat); H⁺, K⁺-ATPase inhibitor (gpg stomach *in vitro*). **Source:** SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 6, 900.

**20083 Sophoradiol**

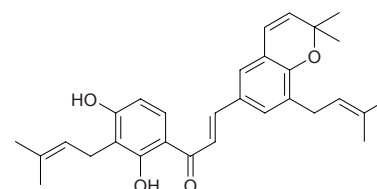
$C_{30}H_{50}O_2$ (442.73). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HUAI *Sophora japonica*, JI GU CAO *Abrus fruticosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], XIANG SI ZI *Abrus precatorius*. **Ref:** 660.

**20084 Sophoradiol-22-O-acetate**

$C_{32}H_{52}O_3$ (484.77). **Source:** XIANG SI ZI *Abrus precatorius*. **Ref:** 660.

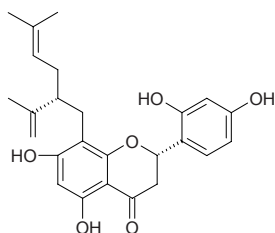
**20085 Sophoradachromene**

$C_{30}H_{34}O_4$ (458.60). mp 154°C. **Source:** SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 6.

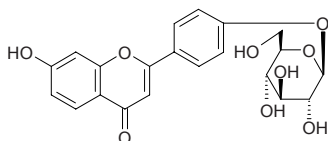


20086 Sophoraflavanone G

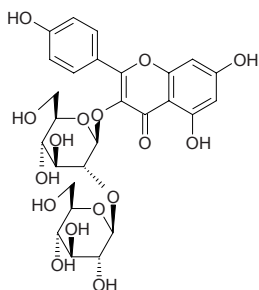
$C_{25}H_{28}O_6$ (424.50). **Pharm:** Tyrosinase inhibitor ($IC_{50} = 44.7\mu\text{mol/L}$, control Kojic acid, $IC_{50} = 11.3\mu\text{mol/L}$)^[5409]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 4430, 5409.

**20087 Sophoraflavone B**

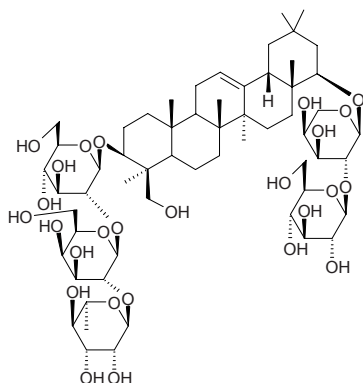
$C_{21}H_{20}O_9$ (416.39). **Source:** HUANG GAN CAO *Glycyrrhiza kansuensis*. **Ref:** 660.

**20088 Sophoraflavonolide**

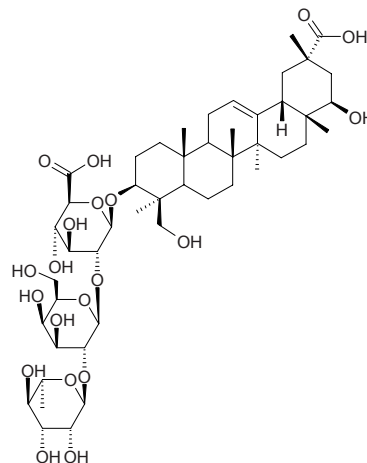
Kaempferol-3-O- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside $C_{27}H_{30}O_{16}$ (610.53). mp 207~208°C. **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} = 75\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 27\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; HIV-1 IN inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$)^[4187]. **Source:** HUAI JIAO *Sophora japonica*, HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (leaf), ZANG HONG HUA *Crocus sativus*. **Ref:** 6, 660, 4187.

**20089 Sophoraflavoside I**

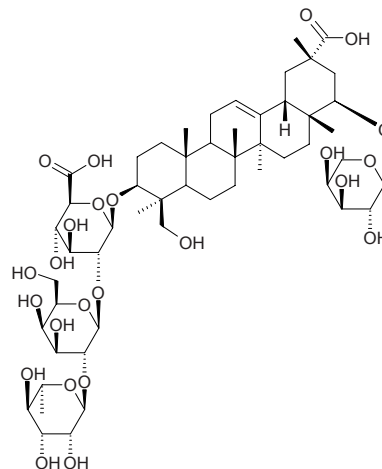
$C_{59}H_{98}O_{26}$ (1223.42). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 660, 1521.

**20090 Sophoraflavoside II**

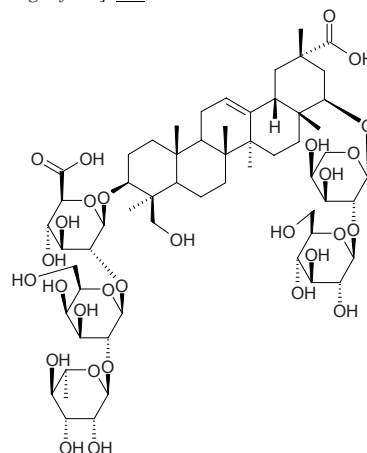
$C_{48}H_{76}O_{20}$ (973.13). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

**20091 Sophoraflavoside III**

$C_{53}H_{84}O_{24}$ (1105.25). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

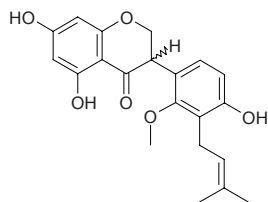
**20092 Sophoraflavoside IV**

$C_{59}H_{94}O_{29}$ (1267.39). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

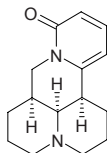


20093 Sophoraisoflavanone A

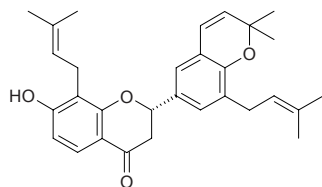
$C_{21}H_{22}O_6$ (370.41). **Pharm:** Antimicrobial (*in vitro*, *Staphylococcus aureus*, *Escherichia coli*, *Bacillus subtilis*, *Penicillium citrinum* and *Candida albicans*). **Source:** LING NAN HUAI SHU *Sophora tomentosa*. **Ref:** 658.

**20094 Sophoramine**

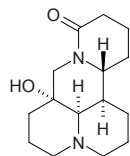
(-)-Sophoramide [6882-66-2] $C_{15}H_{20}N_2O$ (244.34). White acicular crystals (hexane), mp 164~165°C, $[\alpha]_D = -98^\circ$ (ethanol). **Pharm:** Antiarrhythmic (caused by aconitine, BaCl₂, CHCl₃, adrenalin, CaCl₂); enhances myocardial contractility; immunosuppressant; reduces activity of LDH; reduces area of myocardial infarction; raises dopamine metabolite HVA (in rat striatum and marginal zone of forebrain). **Source:** BAI CI HUA *Sophora viciifolia*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], KU DOU ZI *Sophora alopecuroides*. **Ref:** 2, 6, 546, 564, 900.

**20095 Sophoranochromene**

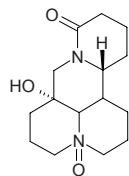
$C_{30}H_{34}O_4$ (458.60). mp 152°C. **Source:** SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 6.

**20096 Sophoranol**

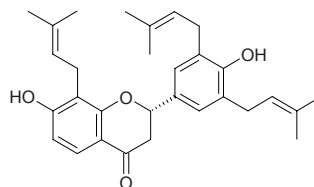
5-Hydroxymatine [3411-37-8] $C_{15}H_{24}N_2O_2$ (264.37). mp 171°C, $[\alpha]_D^{20} = +66^\circ$ (H₂O). **Source:** FU MAO SHAN DOU GEN *Euchresta strigillosa*, KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 5 origins = 0.050%~0.074%, mean content = 0.060%^[5508]), SAN XIAU YE SHAN DOU GEN *Euchresta japonica*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 6, 660, 1521, 5508.

**20097 Sophoranol N-oxide**

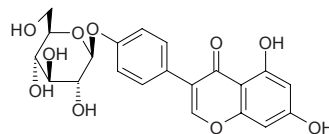
$C_{15}H_{24}N_2O_3$ (280.37). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2.

**20098 Sophoranone**

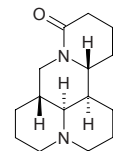
$C_{30}H_{36}O_4$ (460.62). mp 108°C. **Pharm:** Antineoplastic (gastric cancer). **Source:** SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. **Ref:** 6, 658.

**20099 Sophoricoside**

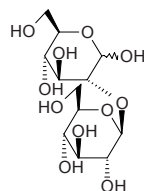
[152-95-4] $C_{21}H_{20}O_{10}$ (432.39). mp 297°C. **Pharm:** Anti-inflammatory (rat, inflammation model induced by embedding woolball, 20mg/(kg·d) ip, 7 days, obvious effect); reduces GPT (glutamine-pyruvic transaminase). **Source:** HUAI *Sophora japonica*, HUANG HUA MU *Piptanthus nepalensis*, HUAI JIAO *Sophora japonica*. **Ref:** 6, 658.

**20100 Sophoridine**

$C_{15}H_{24}N_2O$ (248.37). **Pharm:** bidirectional action to blood pressure (iv, first increases then decreases); contracts blood vessels (peripheral and visceral); positive inotropic effect; antiarrhythmic (animal model); stimulates heart (homothermal animal, poikilotherm, *in vitro*); immunoenhancer (mus, red blood cells). **Source:** KU DOU GEN *Sophora alopecuroides*, KU DOU ZI *Sophora alopecuroides* (seed: content = 0.116%^[5508]), KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*] (dried root: content scope of 7 origins = trace~0.66%, mean content = 0.29%^[5508]). **Ref:** 1521, 5501, 5508.

**20101 Sophorose**

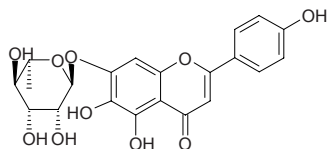
[534-46-3] $C_{12}H_{22}O_{11}$ (342.30). mp (α) 196~198°C. **Source:** HUAI JIAO *Sophora japonica*. **Ref:** 6.



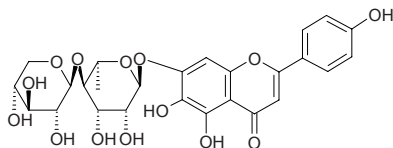
20102 Sorbarin

[24512-68-3] $C_{21}H_{20}O_{10}$ (432.39). mp > 300°C. **Pharm:** Aldose reductase inhibitor (rat, eye lens, 10 μ mol/L InRt = 70.3%, 1 μ mol/L InRt = 13.9%).

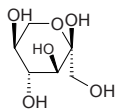
Source: ZHEN ZHU MEI *Sorbaria sorbifolia*. **Ref:** 6, 1631.

**20103 Sorbifolin**

$C_{26}H_{28}O_{14}$ (564.50). **Source:** ZHEN ZHU MEI *Sorbaria sorbifolia*. **Ref:** 660.

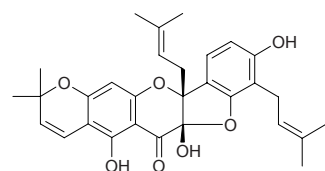
**20104 Sorbose**

$C_6H_{12}O_6$ (180.16). **Source:** OU ZHOU HUA QIU *Sorbus aucuparia*. **Ref:** 658.

**20105 Sorocein D**

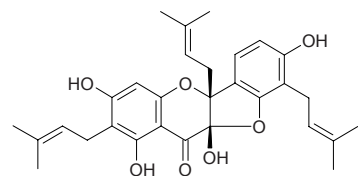
$C_{30}H_{32}O_7$ (504.59). **Pharm:** Cytotoxic (HSC-2, CC_{50} = 190 μ mol/L, 97 μ g/mL; HSG, CC_{50} = 120 μ mol/L, 61 μ g/mL; HGF, CC_{50} = 270 μ mol/L, 135 μ g/mL)^[3034].

Source: *Sorocea bonplandii* (root cortex). **Ref:** 1521, 3034.

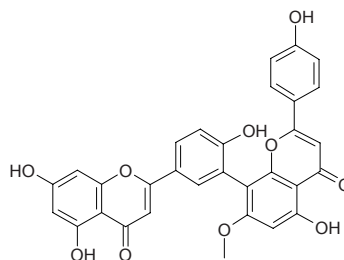
**20106 Sorocein F**

$C_{30}H_{34}O_7$ (506.6). **Pharm:** Cytotoxic (HSC-2, CC_{50} = 47 μ mol/L, 24 μ g/mL; HSG, CC_{50} = 49 μ mol/L, 25 μ g/mL; HGF, CC_{50} = 110 μ mol/L, 57 μ g/mL)^[3034].

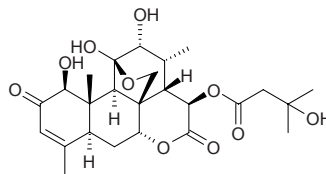
Source: *Sorocea ilicifolia* (root). **Ref:** 1521, 3034.

**20107 Sotetsuflavone**

$C_{31}H_{20}O_{10}$ (552.50). **Source:** YUN NAN SUI HUA SHAN *Amentotaxus yunnanensis* (leaf and twig: yield = 0.00033%dw), YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.00008%dw), JUAN BAI *Selaginella tamariscina*, SU TIE YE *Cycas revoluta*. **Ref:** 660, 4707.

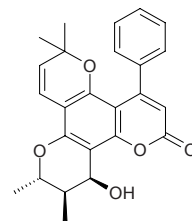
**20108 Soularbinone**

$C_{25}H_{34}O_{10}$ (494.55). **Pharm:** Antineoplastic (leukemia); antimalarial (ED = 0.006 μ g/mL). **Source:** family Simarubaceae spp. **Ref:** 658.

**20109 Soulattrolide**

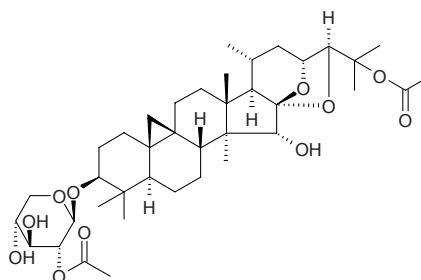
[65025-62-9] $C_{25}H_{24}O_5$ (404.47). **Pharm:** Anti-HIV (strong HIV-RT inhibitor).

Source: TE SI MAN NI HU TONG *Calophyllum teysmannii*. **Ref:** 2268.

**20110 Soulieoside A**

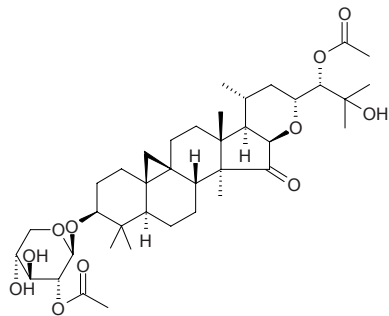
25-O-Acetylcimigenol-3-O- β -D-(2-acetyl)xylopyranoside $C_{39}H_{60}O_{11}$ (704.91).

White amorphous powder, mp 150~152°C (MeOH), $[\alpha]_D^{20}$ = +22.0° (c = 0.05, CHCl₃:CH₃OH = 1:1). **Source:** HUANG SAN QI *Souliea vaginata* (Rhizome). **Ref:** 4291.

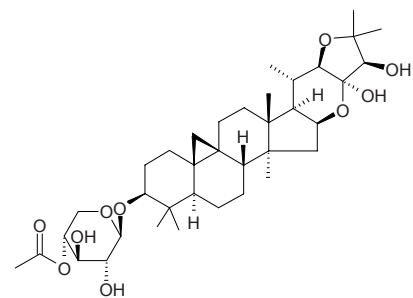


20111 Soulieoside B

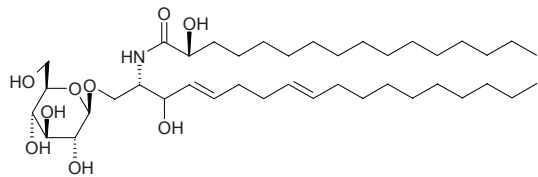
24-*O*-Acetyl-isodahurinol-3-*O*- β -*D*-(2-acetyl)xylopyranoside C₃₉H₆₀O₁₁ (704.91). White amorphous powder, mp 157~160°C (MeOH), $[\alpha]_D^{20} = +14.0^\circ$ ($c = 0.05$, CHCl₃:CH₃OH = 1:1). Source: HUANG SAN QI *Souliea vaginata* (Rhizome). Ref: 4291.

**20112 Soulieoside C**

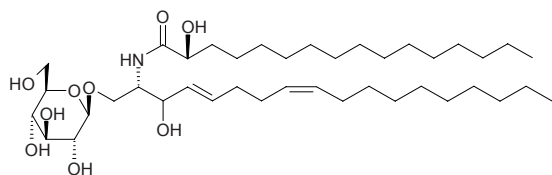
20(*S*),22(*R*),23(*S*),24(*R*)-16 β :23,22:25-Diepoxy-3 β ,23,24-trihydroxy-9,19-cyclolanostane-3-*O*- β -*D*-(4-acetyl)xylopyranoside C₃₇H₅₈O₁₀ (662.87). White amorphous powder, mp 237~239°C (MeOH), $[\alpha]_D^{20} = -8.6^\circ$ ($c = 0.07$, CHCl₃:CH₃OH = 1:1). Source: HUANG SAN QI *Souliea vaginata* (Rhizome). Ref: 4291.

**20113 Soyacerebroside I**

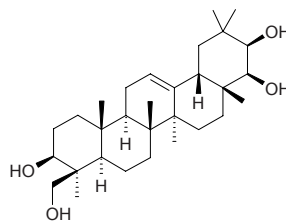
C₄₀H₇₅NO₉ (714.05). White rounded grain crystals, mp 192~197°C, $[\alpha]_D = +9.2^\circ$ ($c = 0.60$, *i*-PrOH). Pharm: PAF antagonist. Source: XI LAN ROU GUI *Cinnamomum zeylanicum*. Ref: 2199.

**20114 Soyacerebroside II**

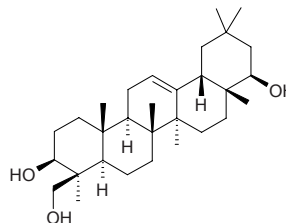
C₄₀H₇₅NO₉ (714.05). White amorphous powder, mp 262~264°C, $[\alpha]_D = +7.9^\circ$ ($c = 0.64$, *i*-PrOH). Pharm: PAF antagonist. Source: XI LAN ROU GUI *Cinnamomum zeylanicum*. Ref: 2199.

**20115 Soyasapogenol A**

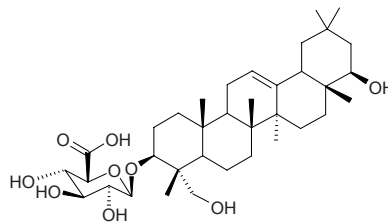
C₃₀H₅₀O₄ (474.73). mp 308~312°C. Source: HEI DA DOU *Glycine max*. Ref: 6.

**20116 Soyasapogenol B**

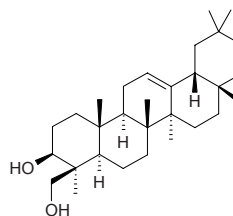
C₃₀H₅₀O₃ (458.73). mp 258~259°C. Source: HEI DA DOU *Glycine max*. Ref: 6.

**20117 Soyasapogenol B monoglucuronide**

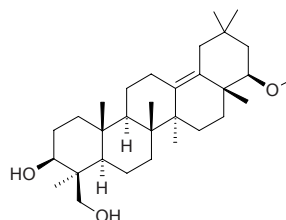
3-*O*-[β -*D*-Glucuronopyranosyl]soyasapogenol B C₃₆H₅₈O₉ (634.86). Pharm: Cytotoxic (*in vitro*, Hs740.T, ED₅₀ = 9.61 μ g/mL; Hs756T, ED₅₀ = 9.59 μ g/mL; Hs578T, ED₅₀ = 8.77 μ g/mL; HS742.T, ED₅₀ = 28.68 μ g/mL; DU145, ED₅₀ = 9.13 μ g/mL; LNCaP-FGC, ED₅₀ = 37.29 μ g/mL). Source: DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0022%dw). Ref: 4630.

**20118 Soyasapogenol C**

C₃₀H₄₈O₂ (440.72). mp 238~239°C. Source: HEI DA DOU *Glycine max*. Ref: 6.

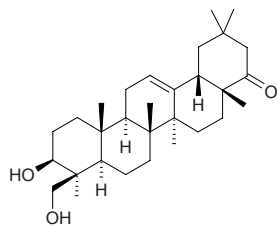
**20119 Soyasapogenol D**

[65892-76-4] C₃₁H₅₂O₃ (472.76). mp 298~299°C. Source: HEI DA DOU *Glycine max*. Ref: 6.

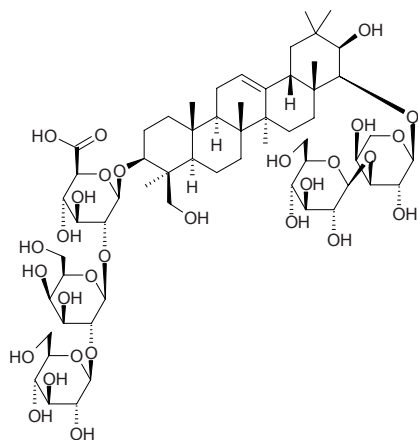


20120 Soyasapogenol E

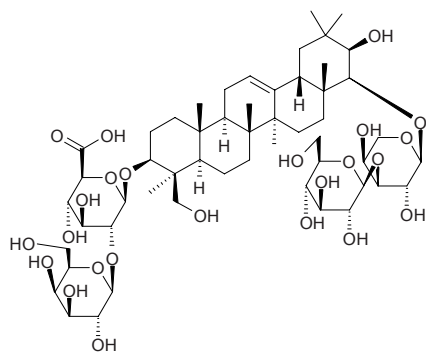
$C_{30}H_{48}O_3$ (456.72). Source: HEI DA DOU *Glycine max.* Ref: 6, 1521.

**20121 Soyasaponin A₁**

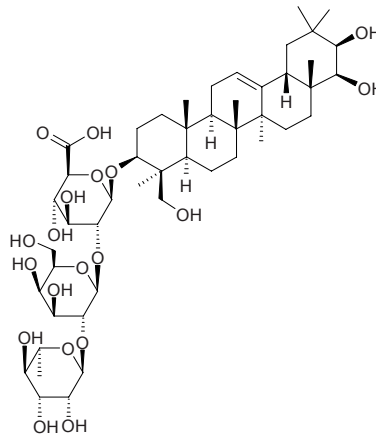
[78693-94-4] $C_{59}H_{96}O_{29}$ (1269.41). Colorless acicular crystals (water–methanol), mp 240~242°C, $[\alpha]_D^{26} = +23.2^\circ$ ($c = 0.91$, methanol). Pharm: Antithrombotic; calcium antagonist; antihypercholesterolemic; cytotoxic; antioxidant (mus heart, inhibits lipid peroxidization due to adriamycin); inhibits liver damage. Source: HEI DA DOU *Glycine max.* Ref: 658, 900.

**20122 Soyasaponin A₂**

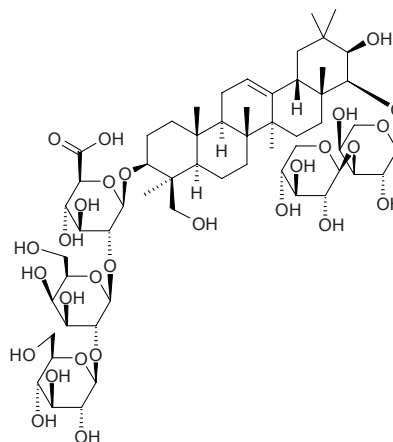
3-*O*-{[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]}-22-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranosyl] soyaapogenol A [78693-93-3] $C_{53}H_{86}O_{24}$ (1107.26). Colorless thin acicular crystals (water–methanol), mp 231~232°C, $[\alpha]_D^{26} = +25.3^\circ$ ($c = 1.0$, methanol). Pharm: Calcium antagonist; antihypercholesterolemic; antioxidant (mus heart, inhibits lipid peroxidization due to adriamycin, $ED_{50} = 17.8\text{mg/kg}$); inhibits liver damage; cytotoxic (*in vitro*, Hs740T, $ED_{50} = 3.15\mu\text{g/mL}$; Hs756T, $ED_{50} = 3.22\mu\text{g/mL}$; Hs578T, $ED_{50} = 4.84\mu\text{g/mL}$; Hs742T, $ED_{50} = 30.1\mu\text{g/mL}$; DU145, $ED_{50} = 2.11\mu\text{g/mL}$; LNCaP-FGC, $ED_{50} = 30.7\mu\text{g/mL}$)^[4630]. Source: DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0048%dw), HEI DA DOU *Glycine max.* Ref: 900, 1521, 4630.

**20123 Soyasaponin A₃**

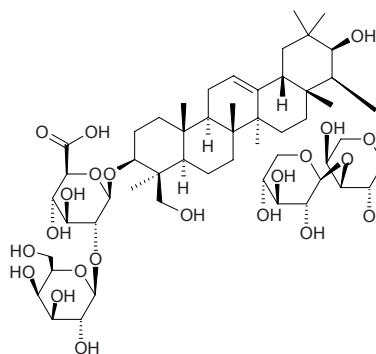
[114077-04-2] $C_{48}H_{78}O_{19}$ (959.15). White amorphous powder, $[\alpha]_D^{27} = -14.2^\circ$ ($c = 0.55$, pyridine). Pharm: Lipoxygenase inhibitor. Source: HEI DA DOU *Glycine max*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 962, 1044, 1123.

**20124 Soyasaponin A₄**

[117210-06-7] $C_{58}H_{94}O_{28}$ (1239.38). Colorless thin crystals, mp 281~285°C, $[\alpha]_D^{16} = +21.3^\circ$ ($c = 0.3$, methanol). Pharm: Lipoxygenase inhibitor; prevents AIDS. Source: HEI DA DOU *Glycine max.* Ref: 900.

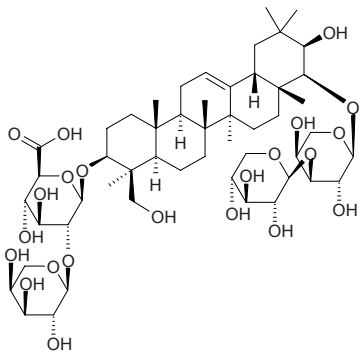
**20125 Soyasaponin A₅**

[117226-04-7] $C_{52}H_{84}O_{23}$ (1077.24). Colorless thin crystals, mp 276~279°C, $[\alpha]_D^{16} = +19.6^\circ$ ($c = 0.4$, methanol). Pharm: Lipoxygenase inhibitor; prevents AIDS. Source: HEI DA DOU *Glycine max.* Ref: 900.

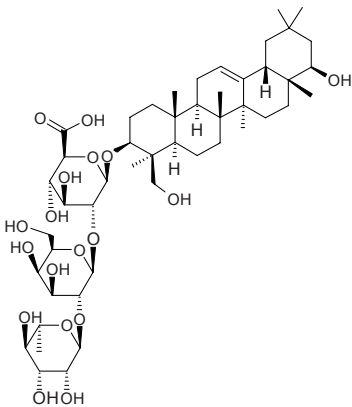


20126 Soyasaponin A₆

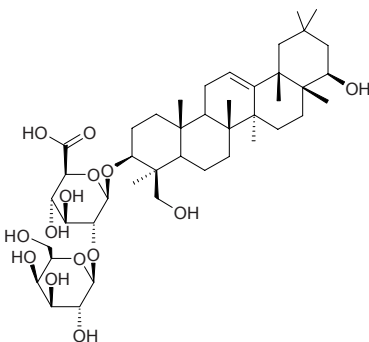
[117210-07-8] C₅₁H₈₂O₂₂ (1047.21). Colorless thin crystals, mp 282–285°C, [α]_D¹⁶ = +20.2° (c = 0.3, methanol). **Pharm:** Lipoxygenase inhibitor; prevents AIDS. **Source:** HEI DA DOU *Glycine max*. **Ref:** 1015.

**20127 Soyasaponin I**

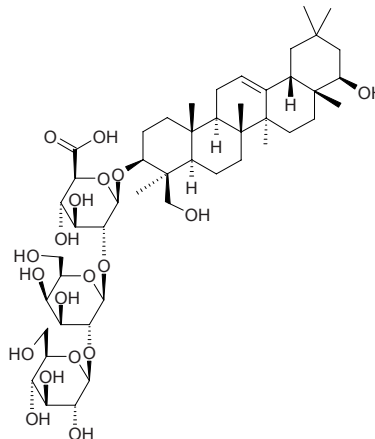
Soyasaponin Bb C₄₈H₇₈O₁₈ (943.15). **Pharm:** Inhibits formation of peroxidase. **Source:** BING DOU *Lens culinaris*, HEI DA DOU *Glycine max*, HUI HUI DOU *Cicer arietinum*, JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 2, 658, 718.

**20128 Soyasaponin III**

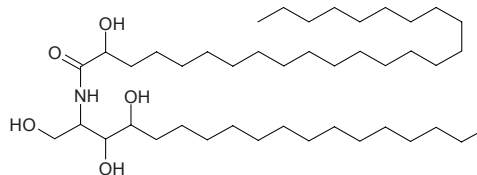
C₄₂H₆₈O₁₄ (797.00). **Source:** HUA I *Sophora japonica*. **Ref:** 660.

**20129 Soyasaponin V**

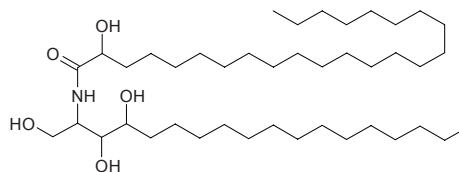
3-O-[β-D-Glucopyranosyl-(1→2)-β-D-galactopyranosyl(1→2)-β-D-glucuronopyranosyl]soyasapogenol B [114590-20-4] C₄₈H₇₈O₁₉ (959.15). Colorless acicular crystals, mp 217–219°C (ethanol–water), [α]_D²² = +17.8° (c = 0.5, methanol). **Pharm:** Lipoxygenase inhibitor; cytotoxic (*in vitro*, Hs740.T, ED₅₀ = 8.97μg/mL; Hs756T, ED₅₀ = 7.36μg/mL; Hs578T, ED₅₀ = 9.87μg/mL; Hs742.T, ED₅₀ = 31.55μg/mL; DU145, ED₅₀ = 5.75μg/mL; LNCaP-FGC, ED₅₀ = 40.68μg/mL)^[4630]. **Source:** BAI FAN DOU *Phaseolus vulgaris*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0036%^[4630]), HEI DA DOU *Glycine max*. **Ref:** 900, 4630.

**20130 Soyasphingosine A**

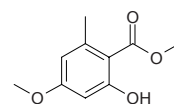
C₄₃H₈₇NO₅ (698.18). White powder (CHCl₃), mp 150–151°C. **Source:** HEI DA DOU *Glycine max*. **Ref:** 2519.

**20131 Soyasphingosine B**

C₄₂H₈₅NO₅ (684.15). White powder (CHCl₃), mp 150–151°C. **Source:** HEI DA DOU *Glycine max*. **Ref:** 2519.

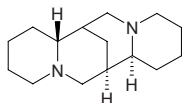
**20132 Sparassol**

C₁₀H₁₂O₄ (196.20). mp 67–68°C. **Source:** NAO YANG HUA *Rhododendron molle*. **Ref:** 6.

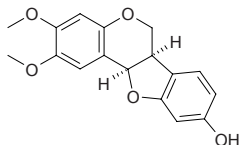


20133 Sparteine

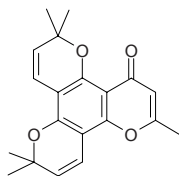
6 β ,7 α ,9 α ,11 α -Pachycarpine; Lupinidine [90-39-1] C₁₅H₂₆N₂ (234.39). bp (-) 188°C/18mmHg; [α]_D²¹ = -16.4° (c = 10, absolute ethanol), easily soluble in ethanol, chloroform, ether, slightly soluble in water^[5507]. **Pharm:** Diuretic; oxytocic; uterine stimulant (*in vitro* and *in vivo*); toxin (insects); used in treatment of ventricular tachycardia, reduces myocardial excitability and conductivity, slows heart rate and inhibits myocardial contractility. **Source:** BAI QU CAI *Chelidonium majus*, HUANG YU SHAN DOU *Lupinus luteus*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], MU MA DOU *Thermopsis lanceolata*. **Ref:** 6, 658, 5507.

**20134 (-)-Sparticarpin**

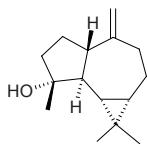
C₁₇H₁₆O₅ (300.32). **Pharm:** Antifungal. **Source:** YING ZHAO DOU *Spartium junceum*. **Ref:** 658.

**20135 Spathelia bischromene**

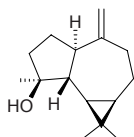
C₂₀H₂₀O₄ (324.38). **Pharm:** Antibacterial; cytotoxic (HeLa). **Source:** family Rutaceae spp. **Ref:** 658.

**20136 (-)-ent-Spathulenol**

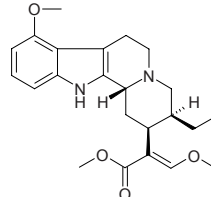
C₁₅H₂₄O (220.36). Colorless oil, [α]_D²⁶ = -2.9° (c = 1.3, CHCl₃). **Source:** KUAN DONG HUA *Tussilago farfara* (flower bud). **Ref:** 3531.

**20137 Spathulenol**

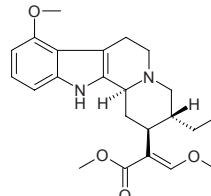
Caryolane-5 β ,9 β -diol [6750-60-3] C₁₅H₂₄O (220.36). [α]_D²⁶ = +60° (c = 0.1, CHCl₃). **Pharm:** Cytotoxic (Mel-2, ED₅₀ = 6.3 μ g/mL); antibacterial (*Staphylococcus aureus*, moderate)^[4929]; antiasthmatic; dispels phlegm; LD₅₀ (mus) = 1.726g/kg. **Source:** CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, YUN SHI *Caesalpinia decapetala* (leaf), *Esenbeckia yaaxhokob* (leaf). **Ref:** 2, 660, 1821, 1822, 4456, 4929, 5400.

**20138 Speciociliatine**

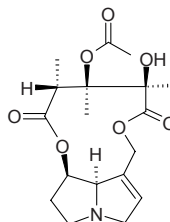
C₂₃H₃₀N₂O₄ (398.51). **Pharm:** Opioid agonist (gpg ileum, pEC₅₀ = 5.55±0.15, control Morphine, pEC₅₀ = 7.15±0.05). **Source:** MEI LI MAO ZHU MU *Mitragyna speciosa* (leaf). **Ref:** 5069.

**20139 Speciogynine**

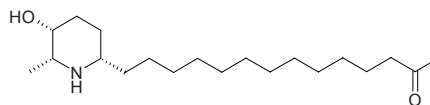
C₂₃H₃₀N₂O₄ (398.51). **Pharm:** Opioid agonist (gpg ileum, pEC₅₀ = 5.61±0.06, control Morphine, pEC₅₀ = 7.15±0.05). **Source:** MEI LI MAO ZHU MU *Mitragyna speciosa* (leaf). **Ref:** 5069.

**20140 Spectabiline**

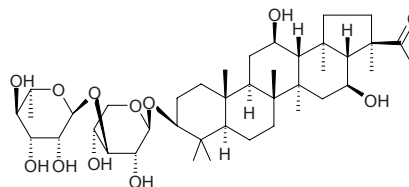
C₁₈H₂₅NO₇ (367.39). mp 185.5~186.0°C (ethanol), [α]_D²² = +121° (c = 1.7, chloroform), +143° (c = 1.38, ethanol). **Pharm:** Antineoplastic (rat Walker carcinoma, 50mg/kg, InRt = 95%, mus glandular carcinoma 755, 60mg/kg, InRt = 82%); antispasmodic (gpg, ileum); cardiotoxic. **Source:** MEI LI ZHU SHI DOU *Crotalaria spectabilis*, AO ZHU SHI DOU *Crotalaria retusa*. **Ref:** 661.

**20141 (-)-Spectaline**

C₂₀H₃₉NO₂ (325.54). **Pharm:** Analgesic (male Swiss mouse, capsaicin- induced neurogenic pain model, ID₅₀ = 20.81 μ g/paw, control Dipyron ID₅₀ = 19.89 μ g/paw). **Source:** XIA YE JUE MING *Cassia leptophylla*. **Ref:** 5440.

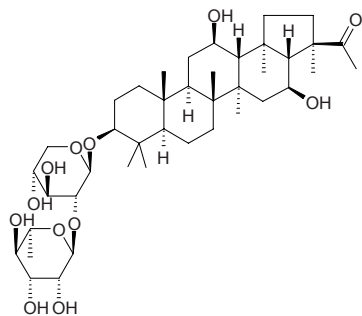
**20142 Spergulacin**

C₄₁H₆₈O₁₂ (752.99). Microneedles (MeOH), mp 280~282°C (dec), [α]_D²⁰ = -13.7° (c = 0.76, pyridine). **Source:** *Mollugo spergula* (aerial parts). **Ref:** 5227.

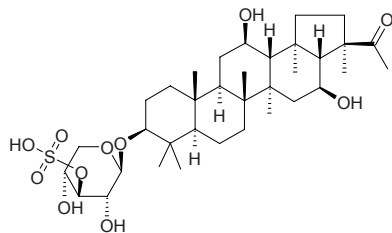


20143 Spergulacin A

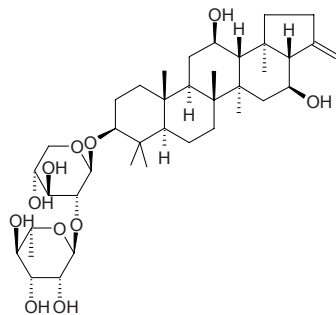
$C_{41}H_{68}O_{12}$ (752.99). Colorless needles (methanol), mp 260–262°C (dec), $[\alpha]_D^{20} = -16.1^\circ$ ($c = 0.77$, pyridine). Source: *Mollugo spergula* (aerial parts). Ref: 5227.

**20144 Spergulin A**

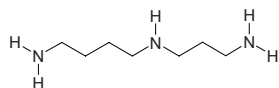
3-*O*-(β -*D*-Xylopyranosyl 4-sulphate)-spergulagenin A $C_{35}H_{58}O_{11}S$ (686.91). Colorless needles, mp 220–221°C (dec), $[\alpha]_D^{25} = +19.1^\circ$ ($c = 0.66$, DMSO). Source: *Mollugo spergula* (aerial parts). Ref: 5227.

**20145 Spergulin B**

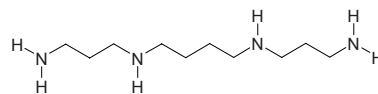
3-*O*-[α -Rhamnopyranosyl (1→2)- β -*D*-xylopyranosyl]-spergulatriol $C_{39}H_{64}O_{11}$ (708.94). Colorless powder, mp 271–273°C (dec), $[\alpha]_D^{20} = -20.0^\circ$ ($c = 0.85$, pyridine). Source: *Mollugo spergula* (aerial parts). Ref: 5227.

**20146 Spermidine**

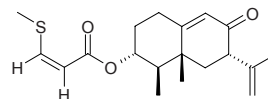
[124-20-9] $C_7H_{19}N_3$ (145.25). Pharm: Germination inhibitor (spores of *Penicillium notatum*) Source: FAN QIE *Lycopersicon esculentum*, HEI DA DOU *Glycine max*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]^[5508], YAN CAO *Nicotiana tabacum*, YAN MAI *Avena sativa*. Ref: 658, 5508.

**20147 Spermine**

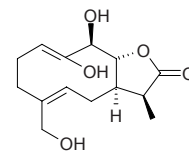
[71-44-3] $C_{10}H_{26}N_4$ (202.35). Pharm: Germination inhibitor (spores of *Penicillium notatum*). Source: JU YU *Helianthus tuberosus*, MAI YA *Hordeum vulgare*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]^[5508], YAN MAI *Avena sativa*. Ref: 658, 5508.

**20148 Spetasin**

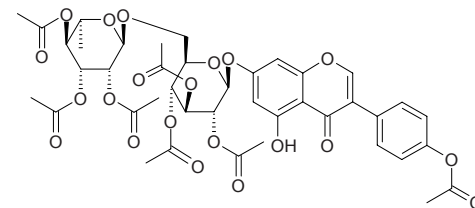
[70238-61-6] $C_{19}H_{26}O_3S$ (334.48). mp 134–136°C, $[\alpha]_D^{18} = +78.8^\circ$ (chloroform). Pharm: Antispasmodic; inhibits L-type Calcium current (NG108-15 neuronal cells)^[5365]. Source: HUANG HUA JIA ZHU TAO *Thevetia neriifolia* [Syn. *Thevetia peruviana*], TAI WAN FENG DOU CAI *Petasites formosanus*. Ref: 661, 5365.

**20149 Sphaelactone A**

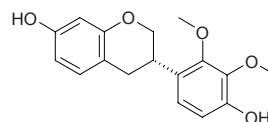
9,14-dihydroxy-1(10),4-germacatrien-12,8-olide[1(10)*E,4E,8a,9β*] $C_{14}H_{20}O_5$ (268.31). Yellow oleaginous substance. Source: MAO GUO HAN XIAO *Michelia spaerantha*. Ref: 668.

**20150 Sphaerobioside acetate**

$C_{41}H_{44}O_{21}$ (872.80). Pharm: Antioxidant (DPPH scavenger, 10 μ mol/L, ScRt = 18%, control BHT, 10 μ mol/L, ScRt = 43%); antibacterial (*Staphylococcus aureus* ATCC 25923, MIC > 128 μ g/mL, control Vancomycin, MIC = 2 μ g/mL; *Staphylococcus aureus* MRSA SK1, MIC > 128 μ g/mL, Vancomycin, MIC = 2 μ g/mL). Source: TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 5319.

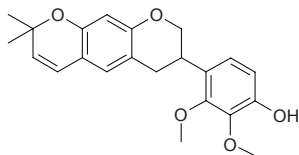
**20151 Spherosin**

$C_{17}H_{18}O_5$ (302.33). mp 151°C. Source: KU MA DOU *Swainsonia salsula* [Syn. *Sphaerophysa salsula*]. Ref: 6, 660.

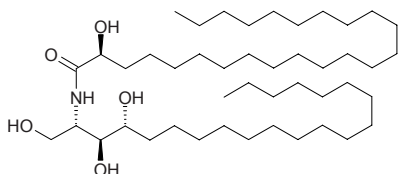


20152 Spherosinin

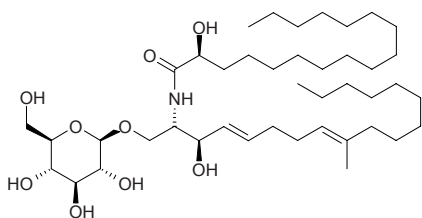
$C_{22}H_{24}O_5$ (368.43). mp 97~98°C. Source: KU MA DOU *Swainsonia salsula* [Syn. *Sphaerophysa salsula*]. Ref: 6.

**20153 Sphingolipid Lipids01-175**

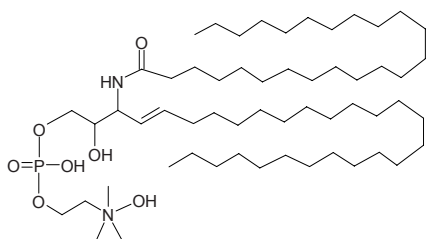
$C_{45}H_{91}NO_5$ (726.23). Source: LAN HUANG HONG GU *Russula cyanoxantha*. Ref: 2077.

**20154 Sphingolipid Lipids01-521**

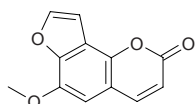
$C_{42}H_{79}NO_9$ (742.10). Source: AI LI SI DUO KONG JUN *Polyporus ellisii*. Ref: 2079.

**20155 Sphingomyelin**

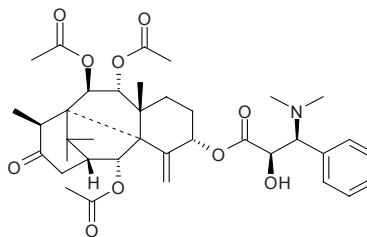
$C_{57}H_{117}N_2O_7P$ (973.55). mp 196~198°C. Source: MU ER *Auricularia auricula*, ZHANG YU *Octopus vulgaris*. Ref: 6.

**20156 Sphondin**

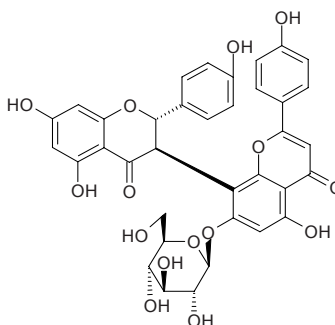
$C_{12}H_8O_4$ (216.20). mp 183~186°C, 189~191°C. Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], LANG DU *Stellera chamaejasme*, LI JIANG QIAN HU *Peucedanum govianum* var. *bicolor*, YONG NING DU HUO *Heracleum yungningense*. Ref: 6.

**20157 Spicaledonine**

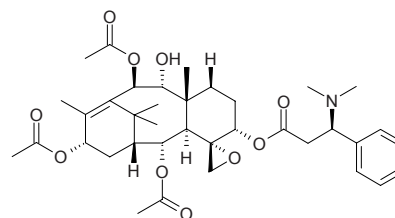
$C_{37}H_{49}NO_{10}$ (667.80). $[\alpha]_D^{25} = +29^\circ$ (CHCl₃). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**20158 Spicataside**

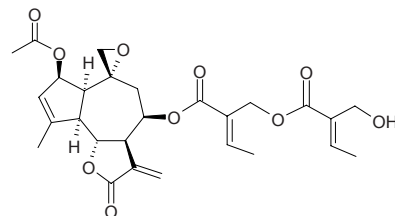
$C_{36}H_{30}O_{15}$ (702.63). mp 232~233°C (dec). Source: SHAN ZHU ZI *Garcinia multiflora*. Ref: 6.

**20159 Spicataxine**

$C_{37}H_{51}NO_{10}$ (669.82). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

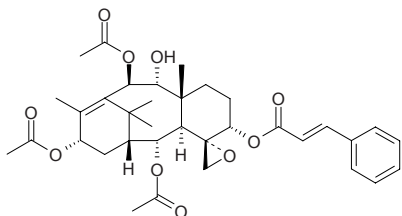
**20160 Spicatin**

$C_{27}H_{32}O_{10}$ (516.55). Resinoid, difficult to crystallize, $[\alpha]_{H_g}^{22} = -146^\circ$ ($c = 0.20$, chloroform). Pharm: Antineoplastic; cytotoxic (KB). Source: CU SHE BIAN JU *Liatris squarrosa*, MI SUI HUA SHE BIAN JU *Liatris pycnostachya*, SHE BIAN JU *Liatris spicata*, XI YE SHE BIAN JU *Liatris tenuifolia*. Ref: 661.

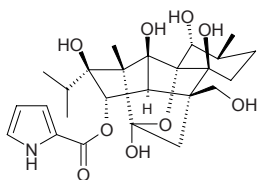


20161 Spicatine

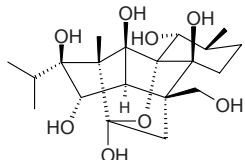
$C_{35}H_{44}O_{10}$ (624.73). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**20162 Spiganthine**

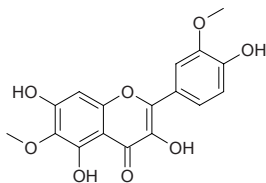
$C_{25}H_{35}NO_9$ (493.56). Crystals ($CHCl_3:Me_2CO = 3:1$), mp 159°C, $[\alpha]_D^{25} = +35^\circ$ ($c = 0.5$). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, $EC_{50} = 25\text{nmol/L}$). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**20163 Spiganthol**

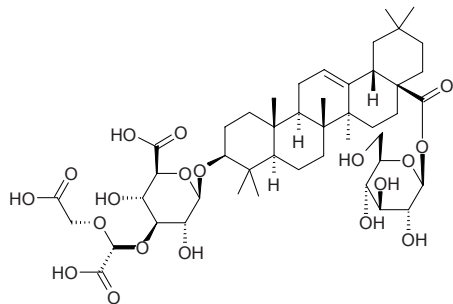
$C_{20}H_{32}O_8$ (400.47). Amorphous. Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**20164 Spinacetin**

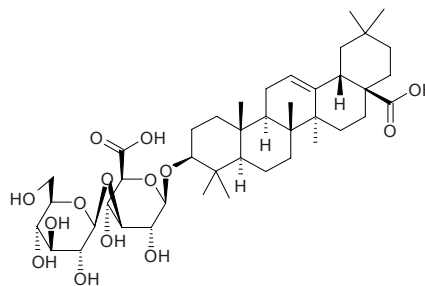
$C_{17}H_{14}O_8$ (346.30). mp 235–236°C. Source: BO CAI *Spinacia oleracea*. Ref: 6.

**20165 Spinacoside C**

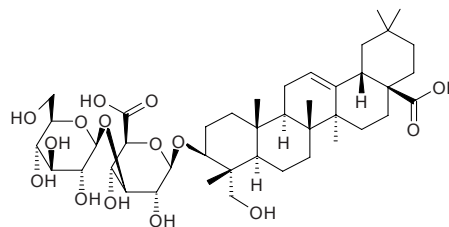
$C_{46}H_{70}O_{19}$ (927.06). Source: LUO KUI HUA *Basella rubra* (aerial parts). Ref: 3544.

**20166 Spinasaponin A**

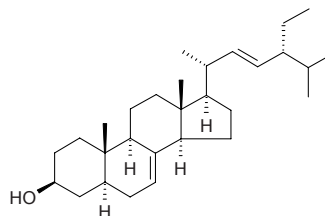
$C_{42}H_{66}O_{14}$ (794.99). Pharm: Antibacterial. Source: BO CAI *Spinacia oleracea*. Ref: 6, 658.

**20167 Spinasaponin B**

$C_{42}H_{66}O_{15}$ (810.99). Pure substance, separated by layer chromatography, sugarlike, difficult to crystallize, softening point, 195–198°C, $[\alpha]_D^{22} = +100^\circ$ ($c = 0.42$, methanol). Pharm: Antibacterial. Source: BO CAI *Spinacia oleracea*. Ref: 6, 658.

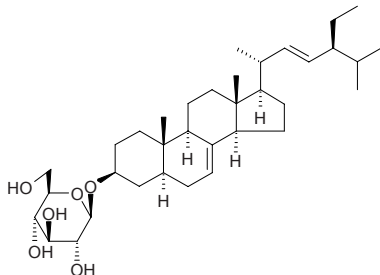
**20168 α -Spinasterol**

24 α -ethyl-5 α -cholesta-7-*trans*,22-dien-3 β -ol [481-17-4] $C_{29}H_{48}O$ (412.71). Colorless acicular crystals (ethanol), mp 159–160°C; mp 157–159°C, $[\alpha]_D^{22} = -0.05^\circ$ ($c = 0.055$, $CHCl_3$). Pharm: Anti-inflammatory; diuretic; cell proliferation inhibitor (glomerular mesangial caused by high-ambient glucose, $IC_{50} = 3.9\text{ng/mL}$, 9.5pmol/L , inhibitory potency is about 1,000 times higher than that of positive control Simvastatin, a HMG-CoA reductase inhibitor; significantly reduces increases of serum triglycerides, renal weight and urinary protein excretion in streptozotocin-induced diabetic mouse, action can be comparable with insulin)^[5012]. Source: BAI QU CAI *Chelidonium majus*, BO CAI *Spinacia oleracea*, CHAI HU *Bupleurum chinense*, DA YE CHAI HU *Bupleurum longiradiatum*, DANG SHEN *Codonopsis pilosula*, GUA LOU *Trichosanthes kirilowii* (fruit: mean content = 0.0171%^[5508]), HUANG JIN FENG *Impatiens sicutifer*, JIE GENG *Platycodon grandiflorum*, JIN HUANG CHAI HU *Bupleurum aureum*, KU CAO *Vallisneria spiralis*, KU HAO *Conyza blinii*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], MEI YUAN ZHI *Polygala senega*, MU XU *Medicago sativa*, NIU XI *Achyranthes bidentata*, SHUI CAI *Menyanthes trifoliata*, SI GUA *Luffa cylindrica*, TU JING JIE *Chenopodium ambrosioides*, WANG GUA *Trichosanthes cucumeroides*, XIAO HUA SUAN TENG ZI *Embelia parviflora*, YAO XI GUA *Citrullus colocynthis*, YE ZI RANG *Cocos nucifera*, occurs in many plants. Ref: 2, 6, 437, 548, 582, 604, 5012, 5508.

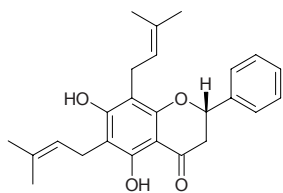


20169 α -Spinasterol- β -D-glucoside

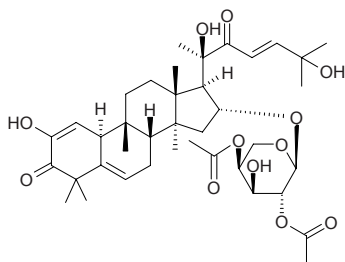
α -Spinasterol glucoside C₃₅H₅₈O₆ (574.85). mp 291~292°C (gasoline), [α]_D²⁷ = -35.0°, acicular crystals (benzene-ethanol), mp 282~283°C, [α]_D = -35° (*c* = 0.4, pyridine). **Pharm:** Diuretic. **Source:** DANG SHEN *Codonopsis pilosula*, GAO YI ZHI HUANG HUA *Solidago altissima*, HUI YE DU JING SHAN *Maesa chisia*, JIE GENG *Platycodon grandiflorum*, NIU TI DOU *Pithecolobium dulce*, NIU XI *Achyranthes bidentata*, TIAN HUA FEN *Trichosanthes kirilowii*, YIN CHAI HU *Stellaria dichotoma* var. *lanceolata*, ZI HU *Bupleurum falcatum*. **Ref:** 2, 582, 661, 5501.

**20170 Spiniavanone-B**

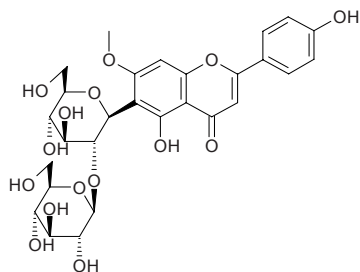
5,7-Dihydroxy-6,8-di(3-methylbut-2-enyl)flavanone C₂₅H₂₈O₄ (392.50). Oil. **Source:** *Lonchocarpus xuuli* (stem cortex). **Ref:** 3973.

**20171 Spinosiide A**

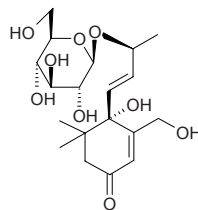
C₃₉H₅₆O₁₂ (716.87). **Pharm:** Cytotoxic. **Source:** DUO CI DI SHI MU *Desfontainia spinosa*. **Ref:** 658.

**20172 Spinisin**

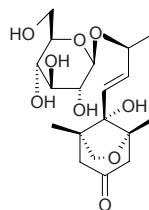
2''-O- β -D-Glucopyranosylswertisin C₂₈H₃₂O₁₅ (608.56). **Source:** DA ZAO *Ziziphujuba*, SUAN ZAO REN *Ziziphujuba* var. *spinosa*. **Ref:** 2.

**20173 Spionoside A**

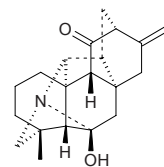
(6*S*,9*S*)-6-Hydroxyinamoside;
(-)-(6*S*,9*S*)-9-O- β -D-Glucopyranosyloxy-6,13-dihydroxy-3-oxo- α -ionol
C₁₉H₃₀O₉ (402.45). Amorphous, [α]_D²² = -43.0° (*c* = 0.3, MeOH). **Source:** LAO SHU GUA *Capparis spinosa*. **Ref:** 1998.

**20174 Spionoside B**

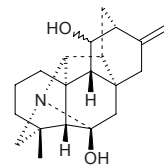
(9*S*)-Drummondol-9-O- β -D-glucoopyranoside C₁₉H₃₀O₉ (402.45). Amorphous, [α]_D²² = -51.2° (*c* = 2.0, MeOH). **Source:** LAO SHU GUA *Capparis spinosa*. **Ref:** 1998.

**20175 Spiradine A**

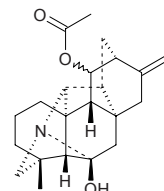
C₂₀H₂₅NO₂ (311.43). mp 281~282°C. **Source:** XIU XIAN JU YE *Spiraea japonica*. **Ref:** 6.

**20176 Spiradine B**

[19741-51-6] C₂₀H₂₇NO₂ (313.44). mp 259~260°C. **Source:** XIU XIAN JU YE *Spiraea japonica*. **Ref:** 6.

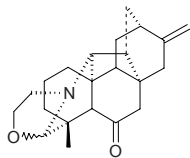
**20177 Spiradine C**

C₂₂H₂₉NO₃ (355.48). mp 248~249°C. **Source:** XIU XIAN JU YE *Spiraea japonica*. **Ref:** 6.

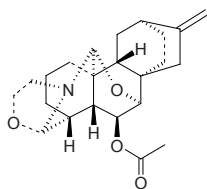


20178 Spiradine D

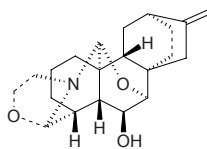
$C_{22}H_{29}NO_2$ (339.48). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20179 Spiradine F**

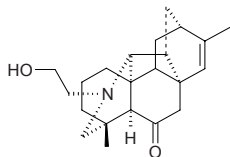
[21040-64-2] $C_{23}H_{31}NO_4$ (385.51). **Source:** XIU XIAN JU YE *Spiraea japonica*. **Ref:** 6.

**20180 Spiradine G**

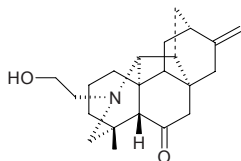
[21040-66-4] $C_{21}H_{29}NO_3$ (343.47). mp 168~170°C. **Source:** XIU XIAN JU YE *Spiraea japonica*. **Ref:** 6.

**20181 Spirafine II**

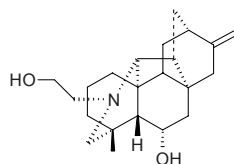
$C_{22}H_{31}NO_2$ (341.50). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, $IC_{50} = (40.8 \pm 11.7) \text{ mg/L}$ or $(119.6 \pm 34.3) \mu\text{mol/L}$). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20182 Spirafine III**

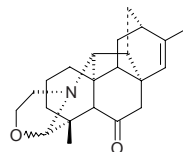
$C_{22}H_{31}NO_2$ (341.50). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, $IC_{50} = (43.5 \pm 17.1) \text{ mg/L}$ or $(127.5 \pm 50.1) \mu\text{mol/L}$). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20183 Spirafine III A**

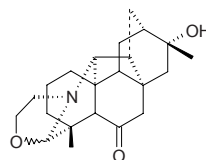
$C_{22}H_{33}NO_2$ (343.51). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20184 Spirafine IV**

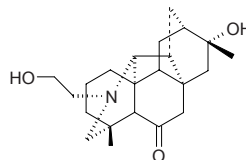
$C_{22}H_{29}NO_2$ (339.48). **Pharm:** Platelet aggregation inhibitor (*in vitro*). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20185 Spirafine V**

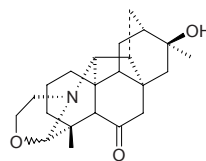
$C_{22}H_{31}NO_3$ (357.50). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20186 Spirafine VA**

$C_{22}H_{33}NO_3$ (359.51). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

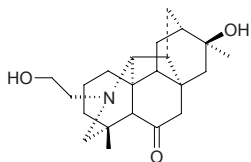
**20187 Spirafine VI**

$C_{22}H_{31}NO_3$ (357.50). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

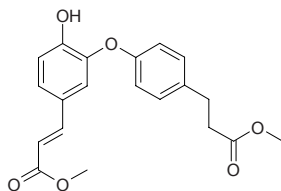


20188 Spirafine VIA

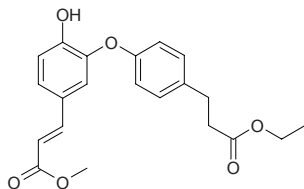
$C_{22}H_{33}NO_3$ (359.51). **Pharm:** Platelet aggregation inhibitor (*in vitro*, induced by PAF, distinct effect). **Source:** XIAO YE HUA BEI XIU XIAN JU *Spiraea fritschiana* var. *parvifolia*. **Ref:** 2198.

**20189 Spiraformin A**

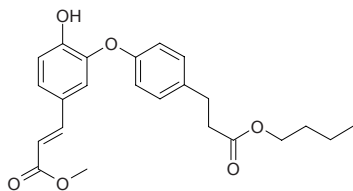
$C_{20}H_{22}O_6$ (356.38). Colorless syrup. **Source:** TAI WAN XIU XIAN JU *Spiraea formosana*. **Ref:** 2575.

**20190 Spiraformin B**

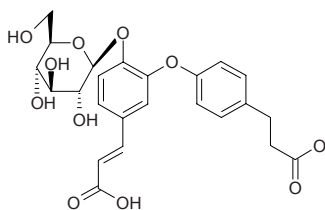
$C_{21}H_{22}O_6$ (370.41). Colorless syrup. **Source:** TAI WAN XIU XIAN JU *Spiraea formosana*. **Ref:** 2575.

**20191 Spiraformin C**

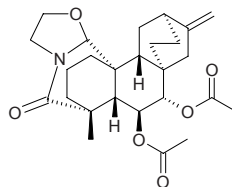
$C_{23}H_{26}O_6$ (398.46). Colorless syrup. **Source:** TAI WAN XIU XIAN JU *Spiraea formosana*. **Ref:** 2575.

**20192 Spiraformin D**

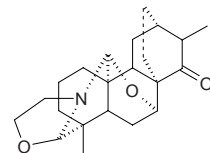
$C_{24}H_{26}O_{11}$ (490.47). Colorless syrup, $[\alpha]_D^{25} = -2.1^\circ$ ($c = 0.9$, MeOH). **Source:** TAI WAN XIU XIAN JU *Spiraea formosana*. **Ref:** 2575.

**20193 Spiramide**

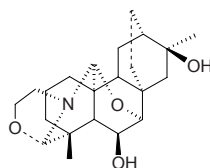
$C_{26}H_{35}NO_6$ (457.57). Amorphous powder, $[\alpha]_D^{26} = -63.40^\circ$ ($c = 4.2$, $CHCl_3$). **Source:** JI JIAN XIU XIAN JU *Spiraea japonica* var. *acuta* (root: yield = 0.000011%). **Ref:** 3045.

**20194 Spiramine N₆**

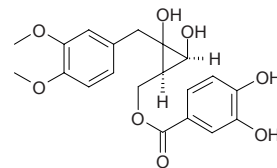
$C_{22}H_{31}NO_3$ (357.50). **Pharm:** Platelet aggregation inhibitor (*in vitro*, selectively inhibits aggregation induced by PAF with dose-response relationship, $IC_{50} = 26\mu\text{mol/L}$; reduces 5-HT release induced by AA or PAF in a concentration-dependent manner, $IC_{50} = 4.7\mu\text{mol/L}$ or $3.5\mu\text{mol/L}$; obviously reduces conglutination between activated platelet and neutrophile granulocytes, $IC_{50} = 78.6\mu\text{mol/L}$). **Source:** XIU XIAN JU *Spiraea japonica*. **Ref:** 4429.

**20195 Spiramine W**

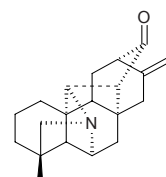
$C_{22}H_{33}NO_4$ (375.51). Acicular crystals. **Source:** JI JIAN XIU XIAN JU *Spiraea japonica* var. *acuta*. **Ref:** 896.

**20196 Spiramongolin**

$C_{20}H_{22}O_8$ (390.39). Colorless rhomboid crystals (EtOH), mp 194–196°C, $[\alpha]_D^{22} = +70.7^\circ$ ($c = 0.3$, MeOH). **Source:** MENG GU XIU XIAN JU *Spiraea mongolica*. **Ref:** 421.

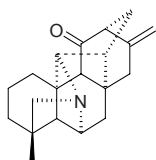
**20197 Spirasine IV**

$C_{20}H_{25}NO$ (295.43). Amorphous white powder, $[\alpha]_D^{17} = -95.7^\circ$ ($c = 1.1$, chloroform). **Source:** GUANG YE FEN HUA XIU XIAN JU *Spiraea japonica* var. *fortunei*. **Ref:** 43.

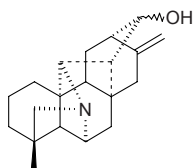


20198 Spirasine IX

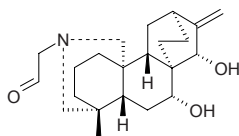
$C_{20}H_{25}NO$ (295.43). Colorless columnar crystals, mp 157–158°C, $[\alpha]_D^{21} = +135.5^\circ$ ($c = 1.0$, chloroform). [Source](#): GUANG YE FEN HUA XIU XIAN JU *Spiraea japonica* var. *fortunei*. [Ref](#): 43.

**20199 Spirasine XI**

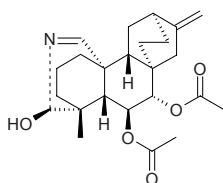
$C_{20}H_{27}NO$ (297.44). White acicular crystals, mp 286–288°C, $[\alpha]_D^{11} = -23.8^\circ$ ($c = 0.84$, chloroform). [Source](#): GUANG YE FEN HUA XIU XIAN JU *Spiraea japonica* var. *fortunei*. [Ref](#): 43.

**20200 Spiratine A**

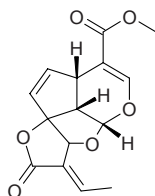
$C_{22}H_{33}NO_3$ (359.51). Amorphous powder, $[\alpha]_D^{24} = -6.25^\circ$ ($c = 1.0$, CH_3OH). [Source](#): JI JIAN XIU XIAN JU *Spiraea japonica* var. *acuta* (root: yield = 0.00022%). [Ref](#): 3045.

**20201 Spiratine B**

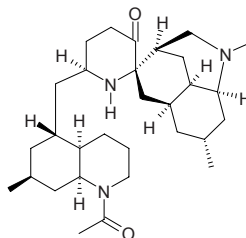
$C_{24}H_{33}NO_5$ (415.53). Amorphous powder, $[\alpha]_D^{25} = +129.48^\circ$ ($c = 5.0$, $CHCl_3$). [Source](#): JI JIAN XIU XIAN JU *Spiraea japonica* var. *acuta* (root: yield = 0.00018%). [Ref](#): 3045.

**20202 Spirolactone iridoid**

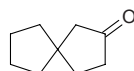
$C_{15}H_{14}O_6$ (290.28). [Source](#): SU KU BA DOU HUA *Himatanthus sucuba*. [Ref](#): 4143.

**20203 Spirolucidine**

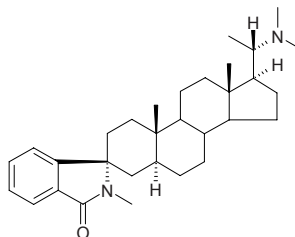
$C_{30}H_{49}N_3O_2$ (483.74). [Source](#): GUANG LIANG SHI SONG *Lycopodium lucidulum*. [Ref](#): 3927.

**20204 Spiro[4,4]nonane-2-one**

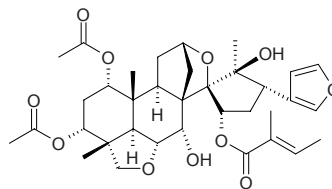
$C_9H_{14}O$ (138.21). [Source](#): YI ZHI REN *Alpinia oxyphylla*. [Ref](#): 660.

**20205 Spiropachysine**

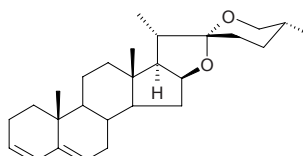
(+)-Spiropachysine [19587-41-8] $C_{31}H_{46}N_2O$ (462.72). Acicular crystals, mp 278–280°C, mp 290–292°C, $[\alpha]_D^{22} = +31.9^\circ$ (chloroform). [Pharm](#): Antiulcerative (mus, sc, 50mg/kg); sedative (mus, ip, 50–200mg/mL). [Source](#): XUE SHAN LIN *Pachysandra terminalis*. [Ref](#): 6, 1111, 1141.

**20206 Spirosendan**

$C_{35}H_{46}O_{11}$ (642.75). Amorphous powder, $[\alpha]_D = -2^\circ$ ($c = 0.07$). [Source](#): CHUAN LIAN PI *Melia toosendan*. [Ref](#): 2374.

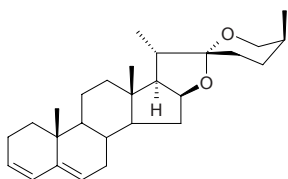
**20207 25α-Spirosta-3,5-diene**

25R-Spirosta-3,5-diene [1672-65-7] $C_{27}H_{40}O_2$ (396.62). mp 164–165°C. [Source](#): SHAN BI XIE *Dioscorea tokoro*, CHUAN LONG SHU YU *Dioscorea nipponica*, HU LU BA *Trigonella foenum-graecum*. [Ref](#): 6, 660, 2458.

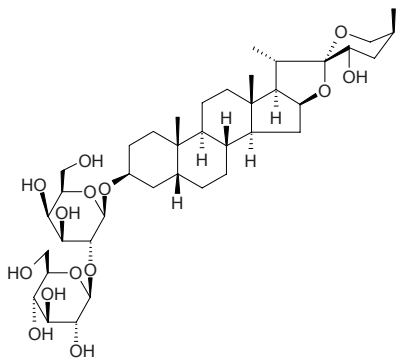


20208 25 β -Spirosta-3,5-diene

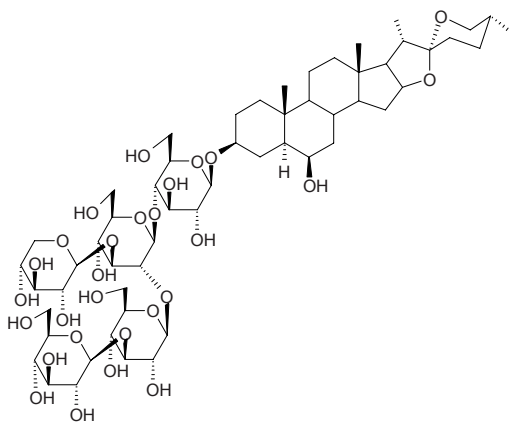
25S-Spirosta-3,5-diene [37064-21-4] C₂₇H₄₀O₂ (396.62). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**20209 (5 β ,25S)-Spirostan-3 β ,15 α ,23 α -diol-3-O-D-glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranoside**

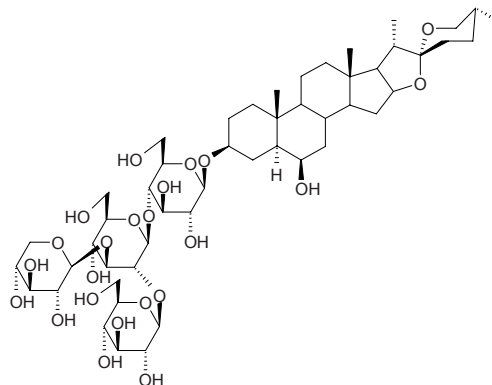
Timosaponin G C₃₉H₆₄O₁₄ (756.96). White powder, mp > 210°C (dec), [α]_D²⁵ = -42.2° (MeOH). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 675.

**20210 (25R)-5 α -Spirostan-3 β ,6 β -diol 3-O-{O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside}**

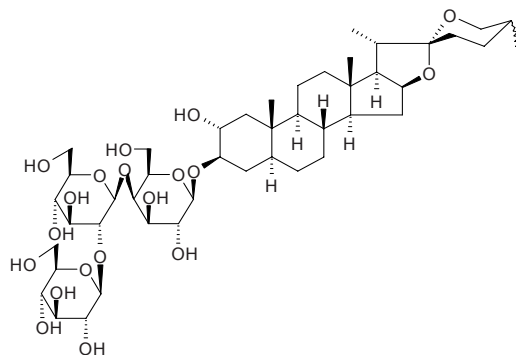
[244764-96-3] C₅₆H₉₂O₂₈ (1213.34). [α]_D²⁵ = -56° (MeOH). Pharm: Antifungal (*Fusarium culmorum*, ED₅₀ = 30~35 μ g/mL). Source: JIU CONG *Allium porrum*. Ref: 2340.

**20211 (25R)-5 α -Spirostan-3 β ,6 β -diol 3-O-{O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-xylopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside}**

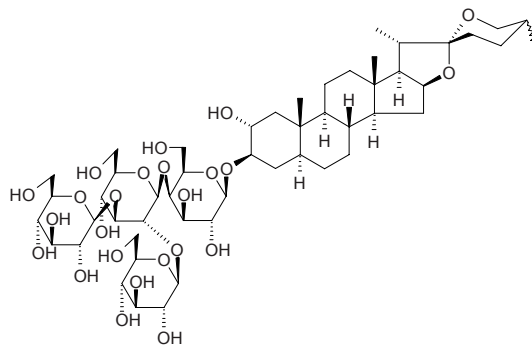
C₅₀H₈₂O₂₃ (1051.20). [α]_D²⁵ = -57° (MeOH). Pharm: Antifungal (*Fusarium culmorum*, ED₅₀ = 30~35 μ g/mL). Source: JIU CONG *Allium porrum*. Ref: 2340.

**20212 (25R,S)-5 α -Spirostane-2 α ,3 β -diol 3-O-[O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside]**

C₄₅H₇₄O₁₉ (919.08). Amorphous solid, [α]_D²⁸ = -52° (c = 0.1, pyridine). Source: QIAO TOU *Allium chinense*. Ref: 710.

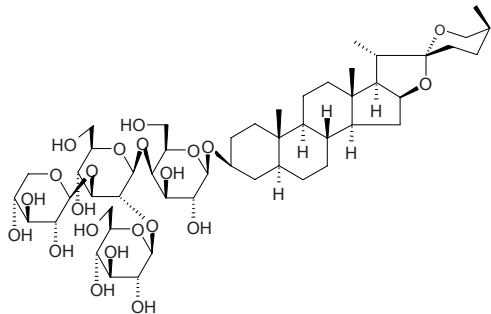
**20213 (25R,S)-5 α -Spirostane-2 α ,3 β -diol 3-O-[O- β -D-glucopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 3)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside]**

C₅₁H₈₄O₂₄ (1081.22). Amorphous solid, [α]_D²⁶ = -42° (c = 0.1, pyridine). Source: QIAO TOU *Allium chinense*. Ref: 710.



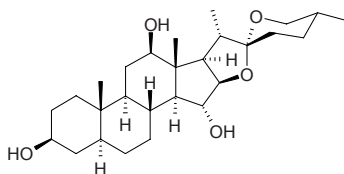
20214 (2*S*,25*S*)-5 α -Spirostan-3 β -ol 3-*O*-[*O*- β -*D*-galactopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside]

C₅₀H₈₂O₂₂ (1035.20). Amorphous powder, $[\alpha]_D^{28} = -7.3^\circ$ ($c = 0.1$, CHCl₃:MeOH = 1:1). Source: *Dichelostemma multiflorum*. Ref: 738.



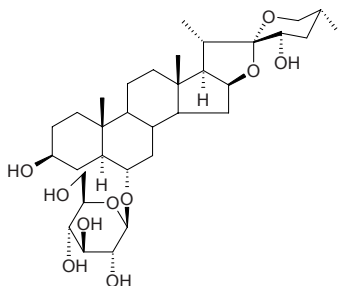
20215 5 α -Spirostan-3 β ,12 β ,15 α -triol

C₂₇H₄₄O₅ (448.65). White powder, $[\alpha]_D^{25} = -19.3^\circ$ ($c = 0.07$, CH₂Cl₂). Source: PA KE YE XIANG SHU *Cestrum parqui* (fresh leaf). Ref: 5327.



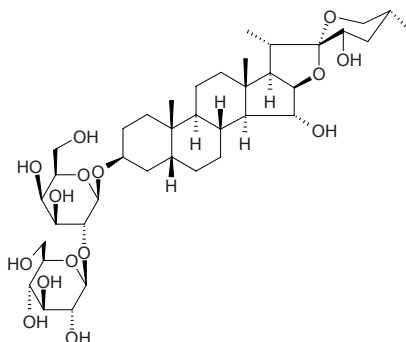
20216 (2*S*)-5 α -Spirostan-3 β ,6 α ,23 α -triol-6-*O*- β -*D*-glucopyranoside

C₃₃H₅₄O₁₀ (610.79). White amorphous powder. Source: FAN MA *Agave americana*. Ref: 2250.



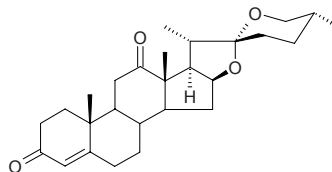
20217 (5 β ,25*S*)-Spirostan-3 β ,15 α ,23 α -triol-3-*O*-*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside

Timosaponin F C₃₉H₆₄O₁₅ (772.94). White powder, mp > 200°C (dec), $[\alpha]_D^{25} = -47.8^\circ$ (MeOH). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 675.



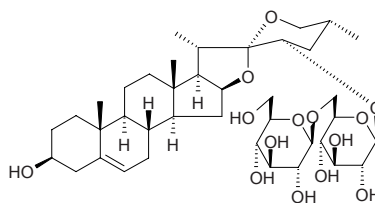
20218 25*R*-Spirost-4-en-3,12-dione

C₂₇H₃₈O₄ (426.60). Colorless powder (CHCl₂), mp 240–241°C. Source: CI JI LI *Tribulus terrestris*. Ref: 1881.



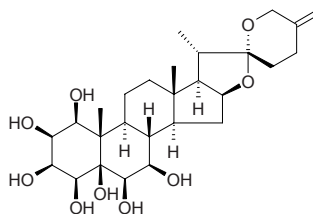
20219 (23*S*,25*R*)-Spirost-5-ene-3 β ,23-diol 23-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside]

[239105-68-1] C₃₉H₆₂O₁₄ (754.92). Amorphous solid, $[\alpha]_D^{25} = -44.0^\circ$ ($c = 0.10$, MeOH). Source: JIA YE SHU *Ruscus aculeatus*. Ref: 2311.



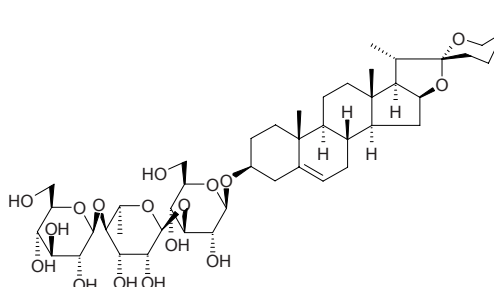
20220 Spirost-25(27)-ene-1,2,3,4,5,6,7-heptol

C₂₇H₄₂O₉ (510.63). Source: WAN NIAN QING GEN *Rohdea japonica* [Syn. *Orontium japonicum*]. Ref: 660.



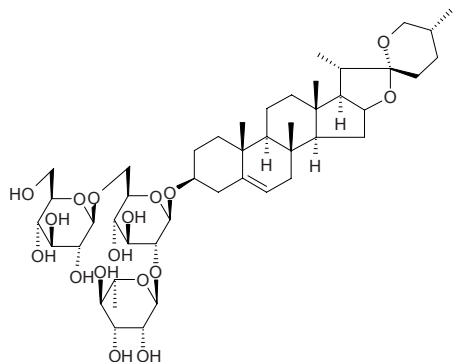
20221 (25*S*)-Spirost-5-en-3 β -yl *O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranoside

C₄₅H₇₂O₁₇ (885.07). Amorphous solid, $[\alpha]_D^{25} = -86.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). Pharm: Cytotoxic (hmn, HL-60 promyelocytic leukemia cells, 10 μ g/mL, InRt > 50%). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2026.



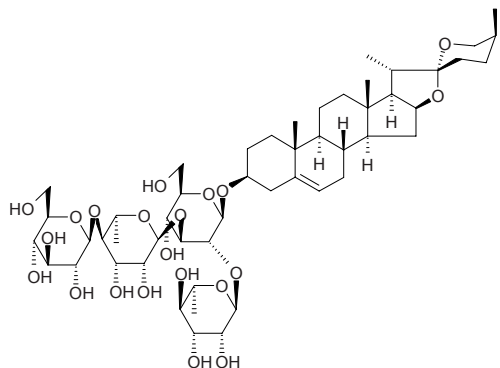
20222 (25R)-Spirost-5-en-3 β -yl-O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside

[244160-59-6] C₄₅H₇₂O₁₇ (885.07). Amorphous solid, $[\alpha]_D^{29} = -89.6^\circ$ ($c = 0.27$, MeOH) **Pharm**: Na⁺, K⁺-ATPase inhibitor (IC₅₀ = 22 μ mol/L, control Ouabain, IC₅₀ = 1.0 μ mol/L). **Source**: QING LIANG BAI HE *Lilium candidum*. **Ref**: 2303.



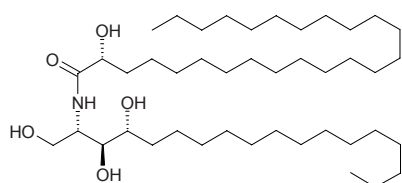
20223 (25S)-Spirost-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[O- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside

C₅₁H₈₂O₂₁ (1031.21). Amorphous solid, $[\alpha]_D^{25} = -86.0^\circ$ ($c = 0.10$, CHCl₃:MeOH = 1:1). **Pharm**: Cytotoxic (hmn, HL-60 promyelocytic leukemia cells, 10 μ g/mL, InRt > 50%). **Source**: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. **Ref**: 2026.



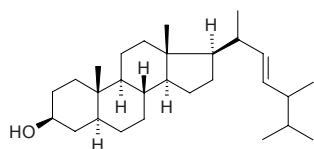
20224 Sponge sphingolipid

C₄₃H₈₇NO₅ (698.18). $[\alpha]_D^{28} = +10.2^\circ$ ($c = 0.45$, pyridine). **Source**: XIAO BANG XIU QIU HAI MIAN *Iatrochota baculifera*. **Ref**: 4391.



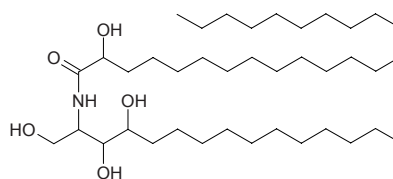
20225 Spongesterol

C₂₈H₄₈O (400.69). **Source**: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. **Ref**: 6.



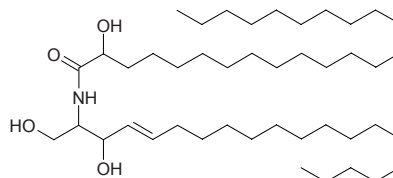
20226 Spongiamine A

N-(2'-Hydroxy-*n*-tetracosanoyl)-1,3,4-trihydroxy-*n*-pentadeca-sphingosine C₃₉H₇₉NO₅ (642.07). White powder, mp 138~139°C. **Source**: *Spongia* sp. **Ref**: 4884.



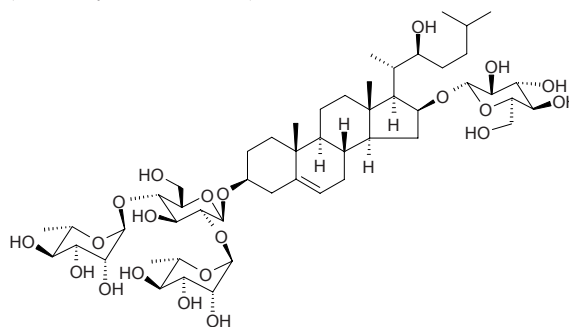
20227 Spongiamine B

N-(2'-Hydroxy-*n*-tetracosanoyl)-*n*-eicosasphinga-(4*E*)-ene C₄₄H₈₇NO₄ (694.19). White solid. **Source**: *Spongia* sp. **Ref**: 4884.



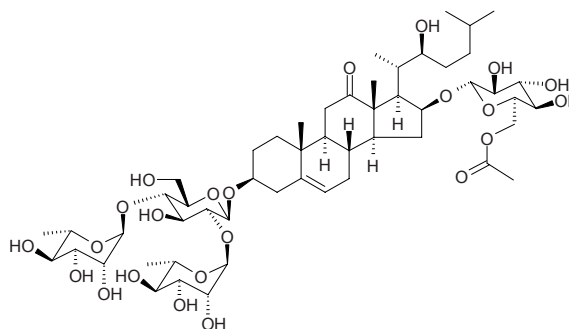
20228 Spongioside A

(22*S*)-16 β -[(β -D-Glucopyranosyl)oxy]-22-hydroxycholest-5-en-3 β -yl O- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside C₅₁H₈₆O₂₁ (1035.24). Colorless amorphous solid, $[\alpha]_D = -67.8^\circ$ ($c = 0.10$, CH₃OH). **Pharm**: Bone resorption inhibitor (PTH-induced in a bone organ culture system). **Source**: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000048%). **Ref**: 4692.



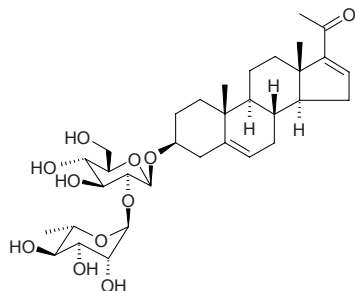
20229 Spongioside B

(22*S*)-16 β -[(6-*O*-Acetyl- β -D-glucopyranosyl)oxy]-22-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]cholest-5-en-12-one C₅₃H₈₆O₂₃ (1091.26). Colorless amorphous solid, $[\alpha]_D = -46.3^\circ$ ($c = 0.25$, CH₃OH). **Source**: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000084%). **Ref**: 4692.

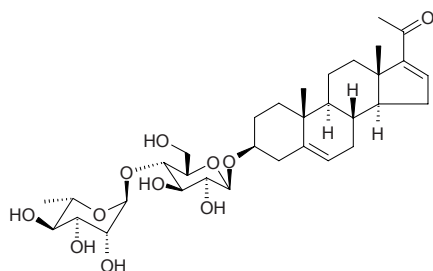


20230 Spongipregnoside A

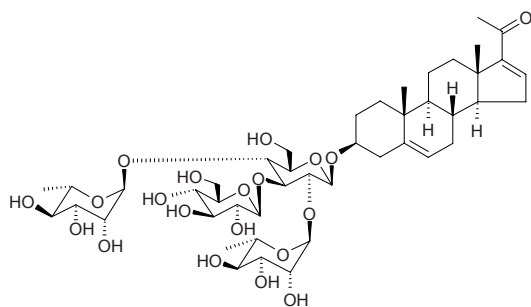
3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl)oxy]-pregna-5,16-dien-20-one C₃₃H₅₀O₁₁ (622.76). Colorless amorphous solid, [α]_D = -18.2° (*c* = 0.15, CH₃OH). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000096%). Ref: 4692.

**20231 Spongipregnoside B**

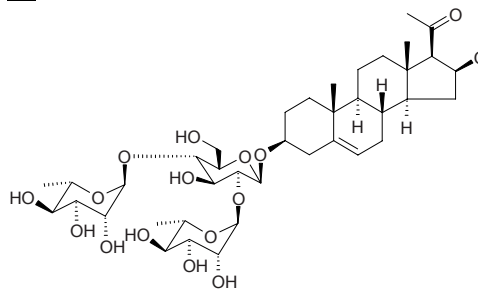
3 β -[(*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl)oxy]pregna-5,16-dien-20-one C₃₃H₅₀O₁₁ (622.76). Colorless amorphous solid, [α]_D = -64.6° (*c* = 0.05, CH₃OH). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000060%). Ref: 4692.

**20232 Spongipregnoside C**

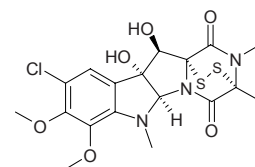
3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]pregna-5,16-dien-20-one C₄₅H₇₀O₂₀ (931.05). Colorless amorphous solid, [α]_D = -68.7° (*c* = 0.10, CH₃OH). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000048%). Ref: 4692.

**20233 Spongipregnoside D**

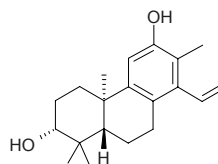
16 β -Methoxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]pregna-5,16-dien-20-one C₄₀H₆₄O₁₆ (800.95). Colorless amorphous solid, [α]_D = -54.2° (*c* = 0.20, CH₃OH). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.000048%). Ref: 4692.

**20234 Sporidesmin**

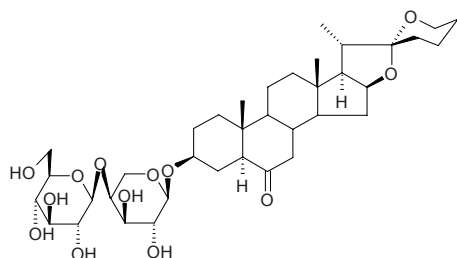
C₁₈H₂₀CIN₃O₆S₂ (473.96). Pharm: Antineoplastic. Source: *Pithomyces chartarum*. Ref: 658.

**20235 Spruceanol**

C₂₀H₂₈O₂ (300.44). Pharm: Cytotoxic. Source: family Euphorbiaceae spp. Ref: 658.

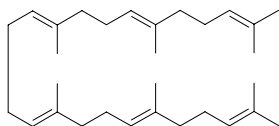
**20236 SQD₄**

C₃₈H₆₀O₁₃ (724.89). Pharm: Antineoplastic (inhibits growth of HeLa cells, SMMC-7721 liver cancer cells, MQc80-3 gastric adenocarcinoma cells). Source: CU CAO BA QIA *Smilax lebrunii*. Ref: 2165.

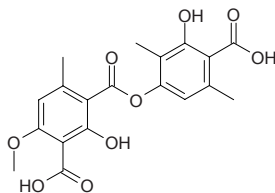


20237 Squalene

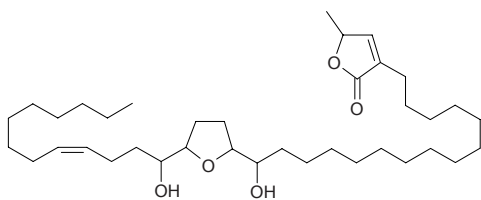
2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene [7683-64-9] $C_{30}H_{50}$ (410.73). bp 284–285°C/25mmHg. **Pharm:** NFAT transcription factor inhibitor inactive ($IC_{50} > 50\mu\text{mol/L}$, positive control Cyclosporin A, $IC_{50} = (0.31 \pm 0.01)\mu\text{mol/L}$)^[4511]; cytotoxic (P_{388} , $ED_{50} > 50\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.58\mu\text{g/mL}$; A549, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.073\mu\text{g/mL}$; HT29, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.076\mu\text{g/mL}$)^[5421]. **Source:** A LI HONG *Fomes officinalis*, CHAO XIAN LUO WAN *Gymnaster koraiensis* (leaf), DONG FENG CAI *Doellingeria scaber* [Syn. *Aster scaber*], DOU YOU *Glycine max*, DUAN SHU *Tilia vulgaris*, HEI DA DOU *Glycine max*, JING MI *Oryza sativa*, MI PI KANG *Oryza sativa*, SI GUA *Luffa cylindrica*, SI GUA ZI *Luffa cylindrica*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*], XIANG SI ZI *Abrus precatorius*, YUN SHI *Caesalpinia decapetala* (leaf), MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 6, 4456, 4511, 5421.

**20238 Squamatic acid**

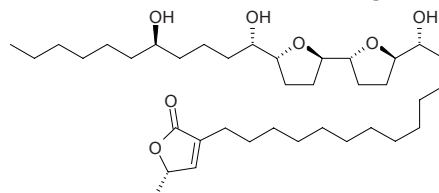
$C_{19}H_{18}O_9$ (390.35). mp 219°C. **Source:** XUE CHA *Thamnia vermicularis*. **Ref:** 6.

**20239 Squamocenin**

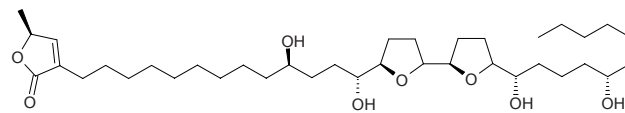
$C_{37}H_{66}O_5$ (590.94). White waxy substance. **Source:** FAN LI ZHI *Annona squamosa* (seed). **Ref:** 4860.

**20240 Squamocin**

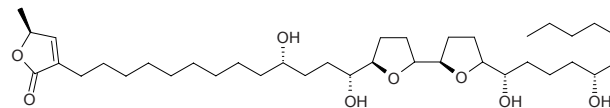
Annonin I [120298-30-8] $C_{37}H_{66}O_7$ (622.93). Ceraceous solid, mp < 30°C, $[\alpha]_D^{22} = +0.15^\circ$ ($c = 1.7$, methanol); colorless oil, $[\alpha]_D^{24} = +20.0^\circ$ ($c = 0.05$, $CHCl_3$). **Pharm:** Cytotoxic (L_{1210} *in vitro*, $ID_{50} = 0.58\mu\text{g/mL}$; P_{388} , $ED_{50} = 10^{-8}\mu\text{g/mL}$); cytotoxic (hmn hepatoma cell lines HepG2, $IC_{50} = 0.547\text{ng/mL}$, control Adriamycin, $IC_{50} = 0.241\mu\text{g/mL}$; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15, $IC_{50} = 0.923\text{ng/mL}$, Adriamycin, $IC_{50} = 0.450\mu\text{g/mL}$)^[5377]; NADH ubiquinone reductase inhibitor ($IC_{50} = 2.5\text{nmol/L}$); anthelmintic (*Caenorhabditis elegans*); insecticidal. **Source:** CI GUO FAN LI ZHI *Annona muricata*, FAN LI ZHI *Annona squamosa*. **Ref:** 900, 5377.

**20241 Squamocin O₁**

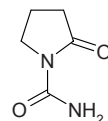
$C_{37}H_{66}O_8$ (638.93). White wax, $[\alpha]_D^{25} = +17.7^\circ$ ($c = 0.6$, MeOH). **Source:** FAN LI ZHI *Annona squamosa*. **Ref:** 1944.

**20242 Squamocin O₂**

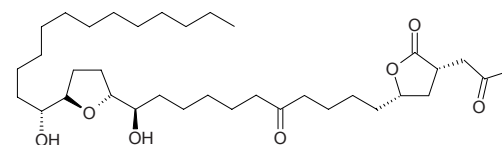
$C_{37}H_{66}O_8$ (638.93). White wax, $[\alpha]_D^{25} = +17.4^\circ$ ($c = 1.0$, MeOH). **Source:** FAN LI ZHI *Annona squamosa*. **Ref:** 1944.

**20243 Squamolone**

$C_5H_8N_2O_2$ (128.13). **Pharm:** Cytotoxic (*in vitro*, HepG2, $IC_{50} = 2.8\mu\text{g/mL}$; Hep2,2,15, $IC_{50} = 1.6\mu\text{g/mL}$). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). **Ref:** 3083.

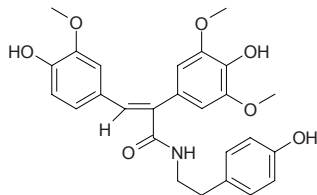
**20244 Squamone**

[126655-24-1] $C_{35}H_{62}O_7$ (594.88). Yellowish amorphous powder, mp 87–89°C, $[\alpha]_D^{25} = +7.0^\circ$ ($c = 0.12$, chloroform); white crystals, mp 95–97°C, $[\alpha]_D^{25} = +29^\circ$ ($c = 0.1$, methanol). **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 5.6\mu\text{g/mL}$; A549, $ED_{50} = 1.34\mu\text{g/mL}$; HT29, $ED_{50} = 1.5\mu\text{g/mL}$; MCF7, $ED_{50} = 2.14\mu\text{g/mL}$). **Source:** NIU XIN FAN LI ZHI *Annona reticulata*, FAN LI ZHI *Annona squamosa*. **Ref:** 401, 1050, 1070.

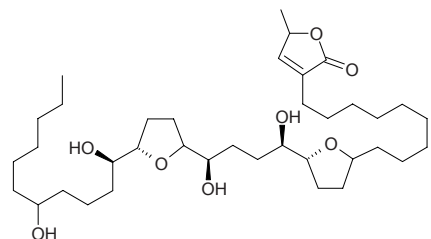


20245 Squamosamide

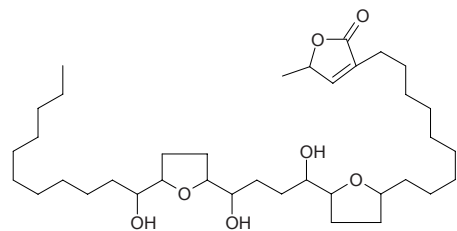
$C_{26}H_{27}NO_7$ (465.51). Yellowish crystals, mp 200~202°C. Source: FAN LI ZHI *Annona squamosa*. Ref: 221.

**20246 Squamostatin B**

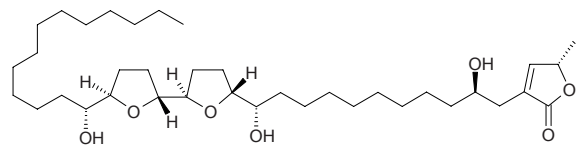
$C_{37}H_{66}O_8$ (638.93). White crystals, mp 105~106°C, $[\alpha]_D^{22} = +13.5^\circ$ ($c = 0.14$, chloroform). Source: FAN LI ZHI *Annona squamosa*. Ref: 303.

**20247 Squamostatin D**

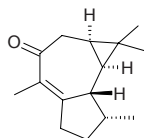
$C_{37}H_{66}O_7$ (622.93). White crystals, mp 51~53°C, $[\alpha]_D = 8.6^\circ$ ($c = 0.088$, MeOH), mp 51~55°C. Source: FAN LI ZHI *Annona squamosa*. Ref: 883.

**20248 Squamotacin**

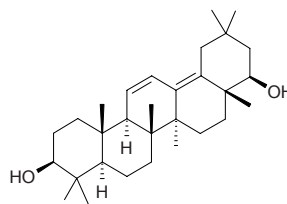
[174158-66-8] $C_{37}H_{66}O_7$ (622.93). White powder, $[\alpha]_D = 2.59^\circ$ ($c = 0.0027$). Pharm: Cytotoxic (BST, $LC_{50} = 0.0068\mu\text{g/mL}$; PC3, $ED_{50} = 0.00000172\text{ng/mL}$). Source: FAN LI ZHI *Annona squamosa*. Ref: 1045.

**20249 Squamulone**

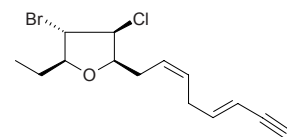
Aromadendr-1(10)-en-9-one $C_{15}H_{22}O$ (218.34). Needles (acetone), mp 50~51°C, $[\alpha]_D^{25} = -202^\circ$ ($c = 1.43$, CHCl_3) (lit. mp 45~46°C, $[\alpha]_D = -234^\circ$ ($c = 1.2$, CHCl_3)). Pharm: Insecticidal (adult *Cylas formicarius elegantulus*, 0.04mg/insect, 24h mortality = 10%, 48h mortality = 60%, 72h mortality = 100%). Source: LUN SHENG SHAN XIANG *Hyptis verticillata* (green stem and leaf), *Curvularia lunata*. Ref: 5140.

**20250 Squasapogenol**

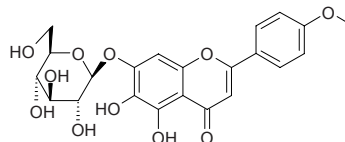
Olean-11,13(18)-diene-3 β ,22 β -diol $C_{30}H_{48}O_2$ (440.72). Colorless acicular crystals (di-Ac), mp > 300°C (di-Ac). Source: YUAN GUO GAN CAO *Glycyrrhiza squamulosa*. Ref: 257.

**20251 Srilankenyne**

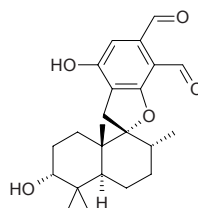
$C_{14}H_{18}BrClO$ (317.66). Source: *Aplysia oculifera*. Ref: 2306.

**20252 Stachannin A**

Scutellarein 4'-O-methylether 7-O- β -glucopyranoside $C_{22}H_{22}O_{11}$ (462.41). Source: *Paederota lutea*. Ref: 3832.

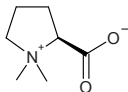
**20253 Stachybotrydial (Mer-NF5003F)**

$C_{23}H_{30}O_5$ (386.49). Yellow solid, $[\alpha]_D^{28} = -20.8^\circ$ ($c = 0.25$, CHCl_3). Pharm: Antiviral (HSV-1, $IC_{50} = (4.32 \pm 0.57)\mu\text{g/mL}$, control Acyclovir $IC_{50} = (1.5 \pm 0.5)\mu\text{g/mL}$, colorimetric method (P. Skehan, et al., J Natl Cancer Inst 1990, 82, 1107-1112)); antimalarial (*Plasmodium falciparum*, K1 multi-drug-resistant strain, cultivated *in vitro* by Trager and Jensen method (Science, 1976, 193, 673), $IC_{50} = (0.85 \pm 0.20)\mu\text{g/mL}$ ($n = 3$), control Dihydroartemisinin $IC_{50} = (1.2 \pm 0.02)\text{ng/mL}$); cytotoxic (Vero cells, $IC_{50} = (24.3 \pm 0.2)\mu\text{g/mL}$ ($n = 3$), control Ellipticine $IC_{50} = (0.4 \pm 0.1)\mu\text{g/mL}$, colorimetric method (P. Skehan, et al., J Natl Cancer Inst 1990, 82, 1107~1112)). Source: Fungus *Stachybotrys nephrospora*. Ref: 4078.

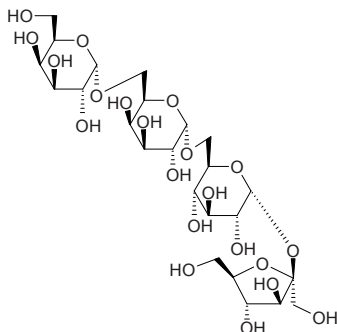


20254 Stachydrine

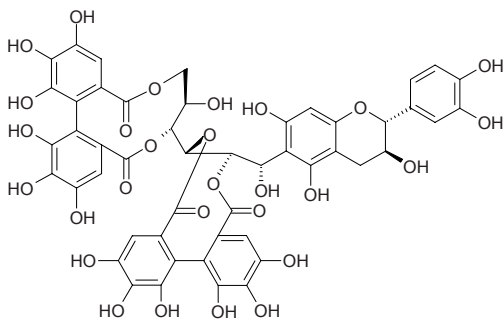
Cadabine [471-87-4] $C_7H_{13}NO_2$ (143.19). mp 235–240°C (dec). **Pharm:** Antitussive (dispels phlegm); hemostatic (dog, rbt, rat); antiasthmatic (bronchial smooth muscle relaxant); slows heart rate (frog heart); uterine stimulant; low toxin. **Source:** KUAI JING SHUI SU *Stachys tubrifera*, LAO SHU GUA *Capparis spinosa*, MU XU *Medicago sativa*, QIAN MA *Urtica cannabina*, SI CHUAN QING FENG TENG *Sabia schumanniana*, XI YE YI MU CAO *Leonurus sibiricus*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (dried aerial parts: mean content = 0.48%^[5508]), ZHE SHU *Cudrania tricuspidata*. **Ref:** 4, 658, 660, 5508.

**20255 Stachyose**

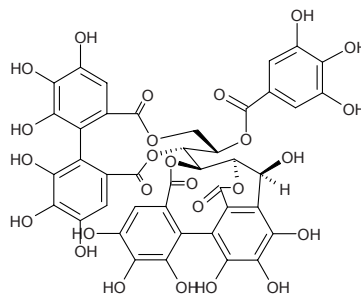
α -D-Galactosyl- α -D-galactosyl- α -D-glucosyl- β -D-fructose [10094-58-3] $C_{24}H_{42}O_{21}$ (666.59). **Source:** CHE QIAN *Plantago asiatica*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], WU SE MEI *Lantana camara*. **Ref:** 2, 234, 660.

**20256 Stachyuranin B**

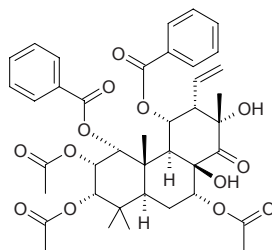
$C_{49}H_{38}O_{28}$ (1074.83). **Source:** HU TAO REN *Juglans regia*. **Ref:** 3408.

**20257 Stachyurin**

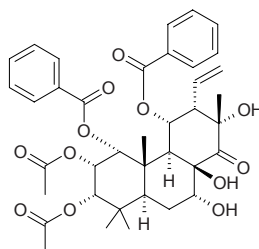
$C_{41}H_{28}O_{26}$ (936.66). **Source:** BAN LI *Castanea mollissima* (leaf), CI LI *Rosa roxburghii*. **Ref:** 660.

**20258 Staminol A**

$C_{40}H_{46}O_{13}$ (734.80). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC_{50} = 25.5 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L, Polymixin B, IC_{50} = 27.8 μ g/mL, Dexamethasone IC_{50} = 170 μ mol/L). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

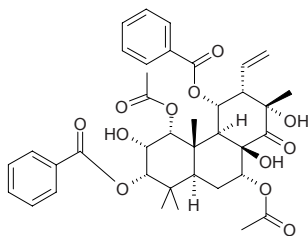
**20259 Staminol B**

$C_{38}H_{44}O_{12}$ (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC_{50} = 67.9 μ mol/L; control *L*-NMMA, IC_{50} = 26.0 μ mol/L, Polymixin B, IC_{50} = 27.8 μ g/mL, Dexamethasone IC_{50} = 170 μ mol/L)^[4322]. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). **Ref:** 4322.

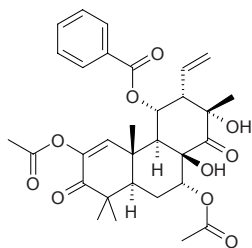


20260 Staminol C

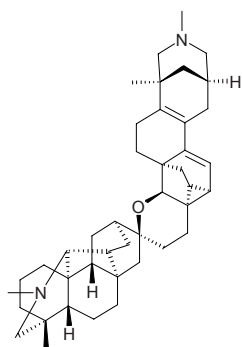
$C_{38}H_{44}O_{12}$ (692.77). Colorless amorphous solid, $[\alpha]_D^{25} = -81.7^\circ$ ($c = 0.067$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 61.1 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 35.7 \mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00005%dw). **Ref:** 4741.

**20261 Staminol D**

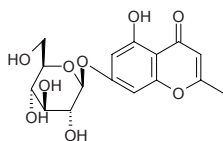
$C_{31}H_{36}O_{10}$ (568.63). Colorless amorphous solid, $[\alpha]_D^{25} = -18.8^\circ$ ($c = 0.293$, $CHCl_3$). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells, $IC_{50} = 92 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 35.7 \mu\text{mol/L}$). **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.00018%dw). **Ref:** 4741.

**20262 Staphidine**

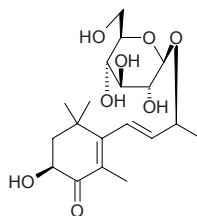
$C_{42}H_{58}N_2O$ (606.93). **Pharm:** Ectoparasiticide (floral seeds). **Source:** SI TA WEI CUI QUE HUA *Delphinium staphisagria*. **Ref:** 658.

**20263 Staphylin**

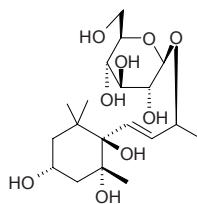
Noreugenin-7-*O*- β -*D*-glucoside $C_{16}H_{18}O_9$ (354.32). mp 248–251°C. **Source:** JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0012%dw), SHENG GU YOU *Staphylea bumalda*. **Ref:** 6, 4723.

**20264 Staphylioside A**

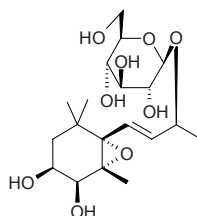
(3*S*,9*S*,5*Z*,7*E*)-Megastigma-5,7-diene-3,9-dihydroxy-4-one 9-*O*- β -*D*-glucopyranoside $C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{26} = -110.7^\circ$ ($c = 0.41$, MeOH). **Source:** SHENG GU YOU *Staphylea bumalda* (leaf). **Ref:** 4478.

**20265 Staphylioside B**

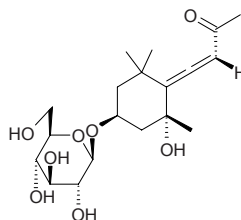
(3*R*,5*R*,6*R*,9*S*,7*E*)-Megastigman-7-ene-3,5,6,9-tetrol 9-*O*- β -*D*-glucopyranoside $C_{19}H_{34}O_9$ (406.48). Amorphous powder, $[\alpha]_D^{26} = -30.0^\circ$ ($c = 0.80$, MeOH). **Source:** SHENG GU YOU *Staphylea bumalda* (leaf). **Ref:** 4478.

**20266 Staphylioside C**

(3*S*,4*S*,5*R*,6*S*,9*S*,7*E*)-Megastigman-7-ene-5,6-epoxy-3,4,9-triol 9-*O*- β -*D*-glucopyranoside $C_{19}H_{32}O_9$ (404.46). Amorphous powder, $[\alpha]_D^{26} = -90.0^\circ$ ($c = 0.47$, MeOH). **Source:** SHENG GU YOU *Staphylea bumalda* (leaf). **Ref:** 4478.

**20267 Staphylioside D**

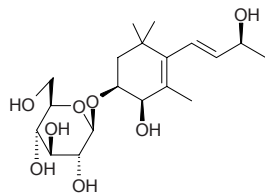
$C_{19}H_{30}O_8$ (386.45). Amorphous powder, $[\alpha]_D^{26} = -60.8^\circ$ ($c = 0.21$, MeOH). **Source:** SHENG GU YOU *Staphylea bumalda* (leaf). **Ref:** 4478.



20268 Staphylioside E

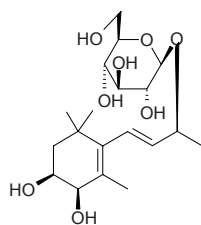
$C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{23} = -99.0^\circ$ ($c = 0.67$, MeOH).

Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

**20269 Staphylioside F**

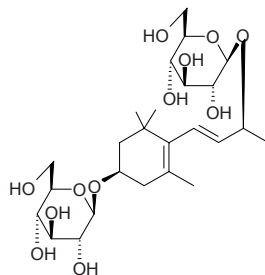
$C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{26} = -118.1^\circ$ ($c = 0.53$, MeOH).

Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

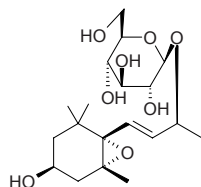
**20270 Staphylioside G**

$C_{25}H_{42}O_{12}$ (534.61). Amorphous powder, $[\alpha]_D^{26} = -99.4^\circ$ ($c = 1.21$, MeOH).

Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

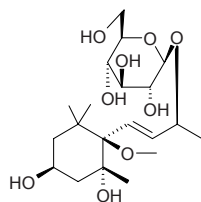
**20271 Staphylioside H**

Epoxyactinidinonide; (3*S*,5*R*,6*R*,9*S*,7*E*)-Megastigman-5-ene-3,9-diol 3,9-di-*O*- β -*D*-glucopyranoside $C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{26} = -78.8^\circ$ ($c = 3.40$, MeOH). Source: MAO JIAN QIU LUO *Lychnis coranaria*, SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 2189, 4478.

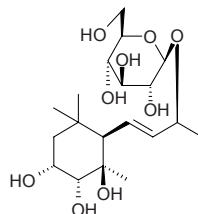
**20272 Staphylioside I**

$C_{20}H_{36}O_9$ (420.50). Amorphous powder, $[\alpha]_D^{28} = -34.4^\circ$ ($c = 0.41$, MeOH).

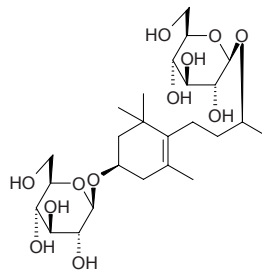
Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

**20273 Staphylioside J**

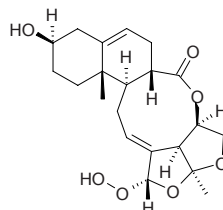
(3*R*,4*R*,5*R*,6*R*,9*S*,7*E*)-Megastigman-7-ene-3,4,5,9-tetra 9-*O*- β -*D*-glucopyranoside $C_{19}H_{34}O_9$ (406.48). Amorphous powder, $[\alpha]_D^{28} = -37.6^\circ$ ($c = 1.46$, MeOH). Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

**20274 Staphylioside K**

(3*S*,9*S*)-Megastigman-5-ene-3,9-diol 3,9-di-*O*- β -*D*-glucopyranoside $C_{25}H_{44}O_{12}$ (536.62). Amorphous powder, $[\alpha]_D^{28} = -67.5^\circ$ ($c = 0.53$, MeOH). Source: SHENG GU YOU *Staphylea bumalda* (leaf). Ref: 4478.

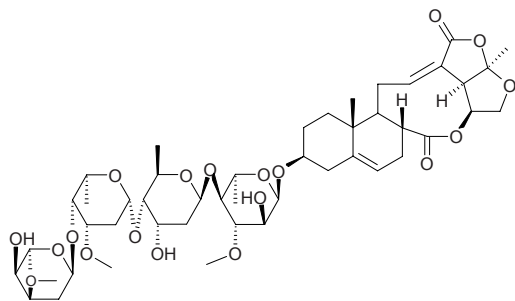
**20275 Stauntonine**

3 β -Hydroxy-18-hydroperoxy-15,20*a*:18,20 β -diepoxy-13,14:14,15-disecopregna-5,12-dien-14-oic acid 16-oxy-lactone $C_{21}H_{28}O_7$ (392.45). Colorless prisms, mp 173~175°C (EtOAc), $[\alpha]_D^{25} = -46.97^\circ$ ($c = 0.132$, MeOH). Pharm: Vasodilator (*in vitro*, rat isolated aortic rings with endothelium, pre-contracted by 0.1 μ mol/L Phenylephrine, $IC_{50} = 5.37 \mu$ mol/L, $pIC_{50} = 5.24 \pm 0.87$, control Nitroglycerine $pIC_{50} = 8.28 \pm 0.63$; with endothelium pre-contracted by 100mmol/L KCl, 10mmol/L, relaxation percentage = (53.4 \pm 7.3)%, control 1.0 μ mol/L Verapamil, relaxation percentage = (97.36 \pm 8.51)%). Source: LIU YE BAI QIAN *Cynanchum stauntonii*. Ref: 4077.

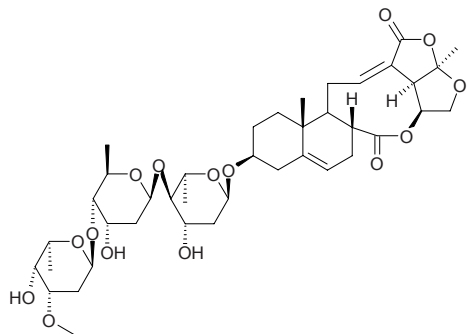


20276 Stauntoside A

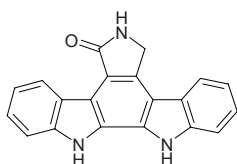
Stauntogenin 3-*O*-[α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*L*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranoside] [261636-64-0]
 $C_{48}H_{72}O_{19}$ (953.10). Amorphous powder, $[\alpha]_D = -63.4^\circ$ ($c = 0.88$, MeOH).
 Source: LIU YE BAI QIAN *Cynanchum stauntonii*. Ref: 2395.

**20277 Stauntoside B**

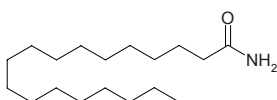
Stauntogenin 3-*O*-[α -*L*-Cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-3-demethyl-2-deoxy-thevetopyranoside]; Stauntogenin 3-*O*-[α -*L*-Cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)-2,6-dideoxy- β -*D*-ribo-hexopyranoside] [261636-66-2] $C_{40}H_{58}O_{15}$ (778.90). Amorphous powder, $[\alpha]_D = -39.10^\circ$ ($c = 0.585$, MeOH). Source: LIU YE BAI QIAN *Cynanchum stauntonii*. Ref: 2395.

**20278 Staurosporinone**

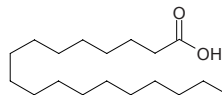
[85753-43-1] $C_{20}H_{13}N_3O$ (311.35). Pharm: Cytotoxic (HeLa cells, $IC_{50} = 8.9\mu g/mL$). Source: FEN LIU JUN *Lycogala epidendrum* (wild sporocarp). Ref: 4465.

**20279 Stearamide**

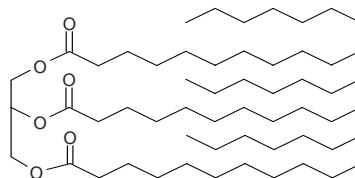
$C_{18}H_{37}NO$ (283.50). Source: BAI JIANG CAN *Bombyx mori*. Ref: 660.

**20280 Stearic acid**

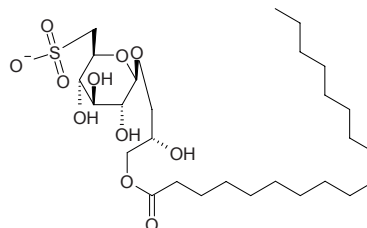
Octadecanoic acid [57-11-4] $C_{18}H_{36}O_2$ (284.49). mp $71.5\sim 72.0^\circ C$. Source: AN ZI BEI MU *Fritillaria unibracteata*, BA DOU *Croton tiglium*, BAN WEN LU HUI *Aloe vera* var. *chinensis*, BING LANG *Areca catechu*, BU GU ZHI *Psoralea corylifolia*, CHAI HU *Bupleurum chinense*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DONG CHONG XIA CAO *Cordyceps sinensis*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUA LOU *Trichosanthes kirilowii*, GUANG JIN QIAN CAO *Desmodium styracifolium*, HONG HUA *Carthamus tinctorius*, JI GUAN ZI *Celosia cristata* (seed), LANG DANG ZI *Hyoscyamus niger* (dried ripe seed: content = 1.6%)^[5508], LI JIANG QIAN HU *Peucedanum govianum* var. *bicolor*, MAN JING ZI *Vitex trifolia*, PU HUANG *Typha angustata*, QIANG HUO *Notopterygium incisum*, QUAN XIE *Buthus martensi*, ROU CONG RONG *Cistanche deserticola*, SHAN ZHA *Crataegus pinnatifida*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0015%)^[4721], WU JIA PI *Acanthopanax gracilistylus*, WU SE MEI *Lantana camara* (aerial parts), XI YANG SHEN *Panax quinquefolium*, XING REN *Prunus armeniaca*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], YIN CHEN HAO *Artemisia capillaris*, YIN YANG HUO *Epimedium brevicornum*, YONG NING DU HUO *Heracleum yungningense*, YU XING CAO *Houttuynia cordata*, YUN QIAN HU *Peucedanum rubricaulis*, occurs in many plants. Ref: 2, 177, 260, 530, 541, 557, 660, 4307, 4721, 5508.

**20281 Stearin**

[555-43-1] $C_{57}H_{110}O_6$ (891.51). mp (α -) $55^\circ C$, (β -) $73^\circ C$, (β' -) $64^\circ C$. Source: BAI E GAO *Anser cygnoides domestica*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. Ref: 6, 660.

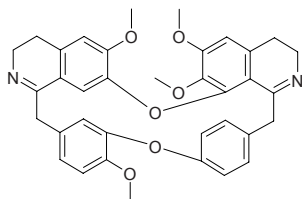
**20282 (2S)-1-Stearoyl-3-O-(6-sulpho- α -D-quinovopyranosyl)-glycerol**

$C_{27}H_{51}O_{11}S^-$ (583.76). Source: KA SHI QIAN GOU ZAO *Amphidinium carterae*. Ref: 4448.

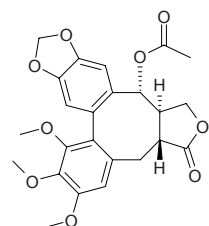


20283 Stebisimine

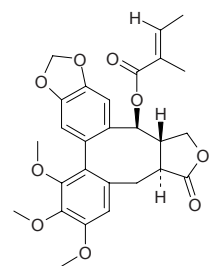
[5692-04-6] $C_{36}H_{34}N_2O_6$ (590.68). mp 233~235°C. **Pharm:** Cytotoxic (HeLa, $ED_{50} = 16\mu\text{g/mL}$). **Source:** QIAN JIN TENG *Stephania japonica*. **Ref:** 6, 1791.

**20284 Steganacin**

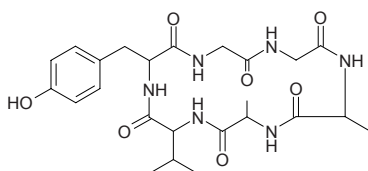
$C_{24}H_{24}O_9$ (456.46). $[\alpha]_D^{23} = -114^\circ$ ($c = 0.74$, chloroform). **Pharm:** Antimitotic; cytotoxic (mus P₃₈₈ and hmn KB, 0.001~0.1 $\mu\text{g/mL}$; HeLa). **Source:** WU JIA QIAN HU *Steganotaenia araliacea*. **Ref:** 661.

**20285 Steganagin**

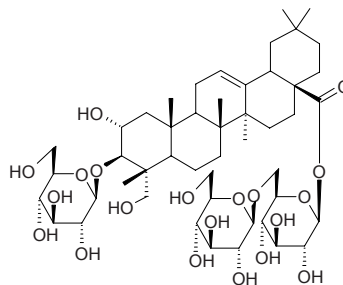
$C_{27}H_{28}O_9$ (496.52). mp 142.5~143°C, $[\alpha]_D^{23} = -113^\circ$ ($c = 0.72$, chloroform). **Pharm:** Cytotoxic (mus P₃₈₈ and hmn KB, 0.001~0.1 $\mu\text{g/mL}$). **Source:** WU JIA QIAN HU *Steganotaenia araliacea*. **Ref:** 661.

**20286 Stellarria cyclopeptide**

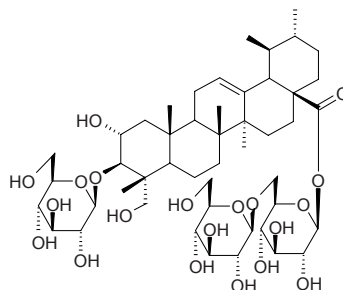
$C_{24}H_{34}N_6O_7$ (518.57). White lamellar crystals, mp > 300°C, $[\alpha]_D^{22} = +0.151^\circ$ ($c = 1.0$, C_5H_5N). **Source:** YIN CHAI HU *Stellaria dichotoma* var. *lanceolata*. **Ref:** 238.

**20287 Stelmatotriterpenoside E**

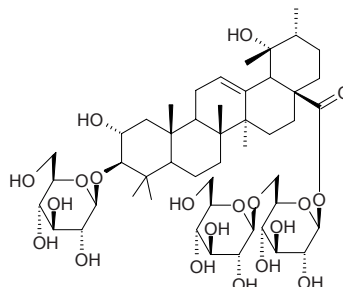
2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid-3-*O*- β -D-glucopyranosyl-28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester $C_{48}H_{78}O_{20}$ (975.14). White powder, mp 226~229°C (dec), $[\alpha]_D^{25} = -43.5^\circ$ ($c = 0.18$, MeOH). **Source:** SHENG TENG *Stelmatocrypton khasianum* (stem). **Ref:** 4340.

**20288 Stelmatotriterpenoside F**

2 α ,3 β ,23-Trihydroxy-urs-12-en-28-oic acid-3-*O*- β -D-glucopyranosyl-28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosylester $C_{48}H_{78}O_{20}$ (975.14). White powder, mp 217~220°C (dec), $[\alpha]_D^{25} = -14.9^\circ$ ($c = 0.27$, MeOH). **Source:** SHENG TENG *Stelmatocrypton khasianum* (stem). **Ref:** 4340.

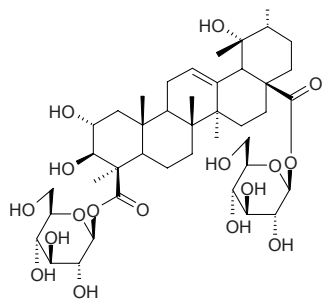
**20289 Stelmatotriterpenoside G**

2 α ,3 β ,19 α -Trihydroxy-urs-12-en-28-oic acid-3-*O*- β -D-glucopyranosyl-28-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl ester $C_{48}H_{78}O_{20}$ (975.14). White powder, mp 185~187°C, $[\alpha]_D^{25} = -138.0^\circ$ ($c = 0.06$, MeOH). **Source:** SHENG TENG *Stelmatocrypton khasianum* (stem). **Ref:** 4340.

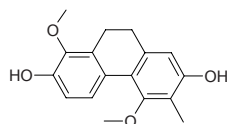


20290 Stelmatotriterpenoside H

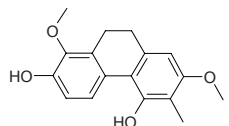
2 β ,3 β ,19 α -Trihydroxy-urs-12-en-24,28-dioic acid-24-*O*- β -D-glucopyranosyl-28-*O*- β -D-glucopyranosyl diester C₄₂H₆₆O₁₇ (842.98). White powder, mp 219~221°C, [α]_D²⁵ = +200° (*c* = 0.02, MeOH). Source: SHENG TENG *Stelmatocrypton khasianum* (stem). Ref: 4340.

**20291 Stemanthrene A**

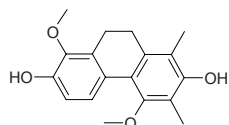
2,7-Dihydroxy-1,5-dimethoxy-6-methyl-9,10-dihydrophenanthrene C₁₇H₁₈O₄ (286.33). Colorless crystals, mp 130~132°C. Source: *Stemona* cf. *pierrei* (underground parts). Ref: 3751.

**20292 Stemanthrene B**

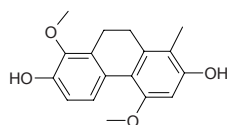
2,5-Dihydroxy-1,7-dimethoxy-6-methyl-9,10-dihydrophenanthrene C₁₇H₁₈O₄ (286.33). Colorless crystals, mp 198~200°C. Source: *Stemona* cf. *pierrei* (underground parts). Ref: 3751.

**20293 Stemanthrene C**

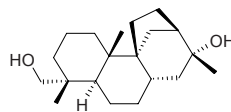
2,7-Dihydroxy-4,8-dimethoxy-1,3-dimethyl-9,10-dihydrophenanthrene C₁₈H₂₀O₄ (300.36). Colorless crystals, mp 169~171°C. Source: *Stemona* cf. *pierrei* (underground parts). Ref: 3751.

**20294 Stemanthrene D**

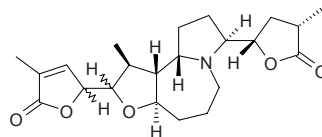
C₁₇H₁₈O₄ (286.33). Source: *Stemona* cf. *pierrei* (underground parts). Ref: 3751.

**20295 Stemarin**

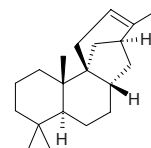
Stemodinol C₂₀H₃₄O₂ (306.49). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20296 Stemocochinin**

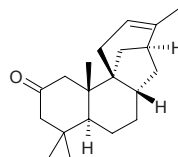
3-Methyl-5-[(2*Z*,3*aR*)-1*t*-methyl-8*t*-((2*S*)-4*c*-methyl-5-oxo-tetrahydrofuran-2*r*-yl)-(3*ar*,10*at*,10*bt*)-decahydro-2*H*-furo[3,2-*c*]pyrrolo[1,2-*a*]azepin-2-yl]-5*H*-furan-2-one C₂₂H₃₁NO₅ (389.50). Amorphous, [α]_D²⁰ = -52° (*c* = 0.2, MeOH). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 170mg/L, EC₅₀ = 61mg/L). Source: DI TANG BAI BU *Stemona kerrii*, YIN DU ZHI NA BAI BU *Stemona cochinchinensis*, *Stemona curtisii*. Ref: 3409.

**20297 Stemod-12-ene**

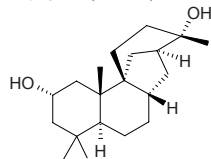
C₂₀H₃₂ (272.48). Amorphous solid, mp 43~45°C, [α]_D²⁷ = +33.6° (*c* = 5.77, CHCl₃). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20298 Stemod-12-en-2-one**

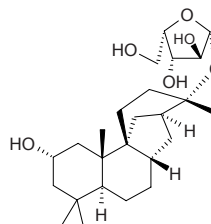
C₂₀H₃₀O (286.46). Amorphous crystals, mp 73~75°C, [α]_D²⁷ = +34.2° (*c* = 1.90, Me₂CO). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20299 Stemodin**

C₂₀H₃₄O₂ (306.49). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

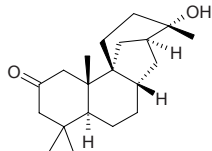
**20300 Stemodin- α -L-arabinofuranoside**

C₂₅H₄₂O₆ (438.61). Needles, mp 215~217°C, [α]_D²⁷ = -40.8° (*c* = 0.91, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

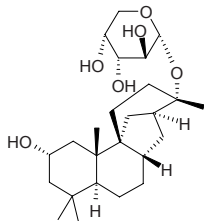


20301 Steminone

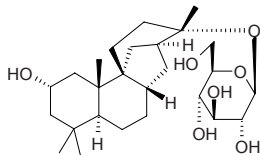
$C_{20}H_{32}O_2$ (304.48). Needles, mp 209–210°C, $[\alpha]_D^{27} = +10.2^\circ$ ($c = 1.25$, Me₂CO). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20302 Steminoside A**

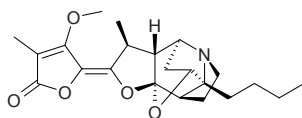
Stemin- α -L-arabinopyranoside $C_{25}H_{42}O_6$ (438.61). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20303 Steminoside B**

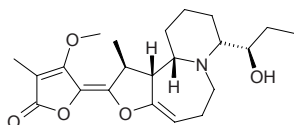
Stemin- β -D-glucopyranoside $C_{26}H_{44}O_7$ (468.64). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**20304 Stemofoline**

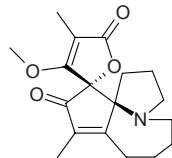
[29881-57-0] $C_{22}H_{29}NO_5$ (387.48). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 2.0mg/L, EC₅₀ = 1.5mg/L)^[3409]. Source: WAN SHENG BAI BU *Stemona japonica* (in 1970, the compound was isolated from the plant by H.Irie et al.)^[5505], YIN DU ZHI NA BAI BU *Stemona cochinchinensis*, *Stemona curtisii*. Ref: 660, 3409, 5505.

**20305 Stemokerrin**

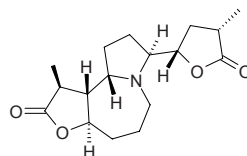
4-Methoxy-3-methyl-5-[(2Z,11aS)-8t-((1R)-1-hydroxypropyl)-1c-methyl-(11a r,11bc)-1,2,5,6,8,9,10,11,11a,11b-decahydro-furo[3,2-c]pyrido[1,2-a]azepin-2-ylidene]-5H-furan-2-one $C_{22}H_{31}NO_5$ (389.50). Colorless plates, mp 138–141°C, $[\alpha]_D^{20} = +136^\circ$ ($c = 0.3$, MeOH). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 58mg/L, EC₅₀ = 14.1mg/L). Source: DI TANG BAI BU *Stemona kerrii*. Ref: 3409.

**20306 Stemonamine**

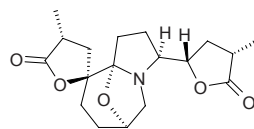
$C_{19}H_{27}NO_4$ (333.43). Source: WAN SHENG BAI BU *Stemona japonica*. Ref: 660.

**20307 Stemonine**

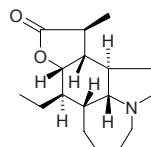
[27498-90-1] $C_{17}H_{25}NO_4$ (307.39). mp 169°C. Pharm: Antibacterial; antiviral; antitussive; CNS depressant; analgesic. Source: BAI BU *Stemona tuberosa*, WAN SHENG BAI BU *Stemona japonica* (in 1970, the compound was isolated from the plant by H.Irie et al.)^[5505], ZHI LI BAI BU *Stemona sessilifolia*, *Stemona cf. pierrei* (underground parts). Ref: 6, 660, 3751, 5501, 5505.

**20308 Stemotinine**

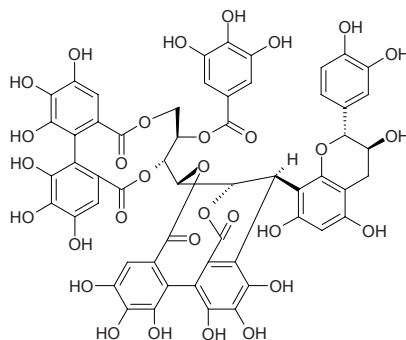
[85644-15-1] $C_{18}H_{25}NO_5$ (335.40). Source: BAI BU *Stemona tuberosa*. Ref: 660.

**20309 Stenine**

$C_{17}H_{27}NO_2$ (277.41). mp 65–67°C. Source: BAI BU *Stemona tuberosa*. Ref: 6.

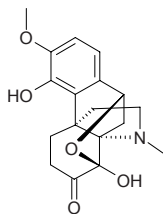
**20310 Stenophyllanin A**

[97775-88-7] $C_{56}H_{40}O_{31}$ (1208.92). Pharm: Antioxidant (SOD-like activity, EC₅₀ = 35.6μmol/L, control Gallic acid, EC₅₀ = 31.7μmol/L, L-Ascorbic acid, EC₅₀ = 34.6μmol/L); antioxidant (DPPH free radical scavenger, EC₅₀ = 0.41μmol/L, control Gallic acid, EC₅₀ = 5.88μmol/L, L-Ascorbic acid, EC₅₀ = 6.25μmol/L). Source: HU TAO REN *Juglans regia*. Ref: 3408.

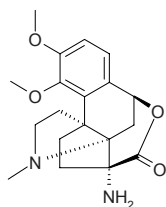


20311 Stephabyssine

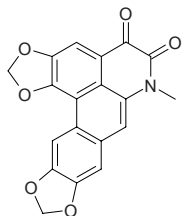
$C_{18}H_{21}NO_5$ (331.37). Source: FEN JI DU *Stephania longa*. Ref: 660.

**20312 Stephadamine**

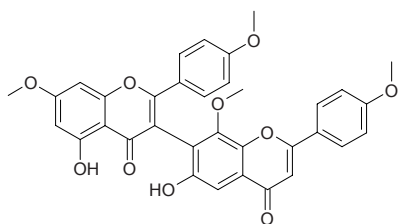
$C_{19}H_{24}N_2O_4$ (344.41). Source: QIAN JIN TENG *Stephania japonica*. Ref: 660.

**20313 Stephadione**

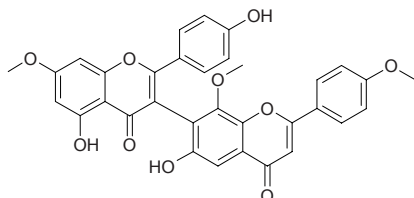
$C_{19}H_{11}NO_6$ (349.30). Red powder, mp > 300°C. Source: FANG JI *Stephania tetrandra*. Ref: 9.

**20314 Stephaflavone A**

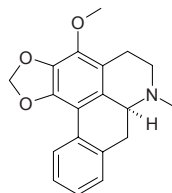
Stephaniaflavone A; 5,5''-Dihydroxy-7,4',7'',4'''-tetramethoxy-[3→6'']-biflavone $C_{34}H_{26}O_{10}$ (594.58). Yellow cubic crystals (C_6H_6), mp 237~239°C. Source: FANG JI *Stephania tetrandra* (aerial parts). Ref: 9, 5194.

**20315 Stephaflavone B**

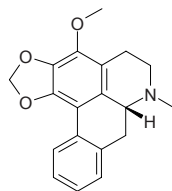
Stephaniaflavone B; 5,4',5''-Trihydroxy-7,7'',4'''-trimethoxy-[3→6'']-biflavone $C_{33}H_{24}O_{10}$ (580.55). Yellow cubic crystals ($CHCl_3$), mp 192~194°C. Source: FANG JI *Stephania tetrandra* (aerial parts). Ref: 9, 5194.

**20316 Stephalagine**

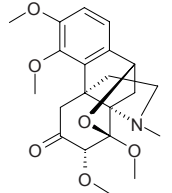
$C_{19}H_{19}NO_3$ (309.37). Pharm: Cytotoxic inactive (yeast assay: RS321NYCp50(gal), RS321NpRAD52(gal), RS321NpRAD52(glu)). Source: DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem). Ref: 5457.

**20317 (-)-Stephalagine**

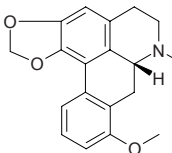
$C_{19}H_{19}NO_3$ (309.37). Source: YOU GOU YING ZHAO *Artabotrys uncinatus* (stem). Ref: 3083.

**20318 Stephamiersine**

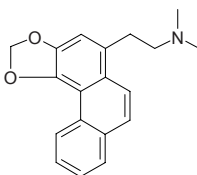
$C_{21}H_{27}NO_6$ (389.45). Source: QIAN JIN TENG *Stephania japonica*. Ref: 660.

**20319 Stephanine**

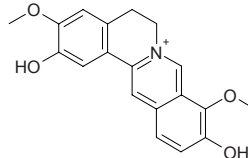
[517-63-5] $C_{19}H_{19}NO_3$ (309.37). mp (-) 160~161°C, (±) 131~133°C. Source: DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*], QIAN JIN TENG *Stephania japonica*, YE HE HUA *Magnolia coco*. Ref: 4.

**20320 Stephanthrine**

Stephanthrine $C_{19}H_{19}NO_2$ (293.37). White acicular crystals (methanol), mp 234~236°C (HBr). Source: FANG JI *Stephania tetrandra*. Ref: 2, 44, 660.

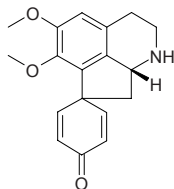
**20321 Stepharanine**

$C_{19}H_{18}NO_4^+$ (324.36). Source: QING NIU DAN *Tinospora sagittata*. Ref: 660.

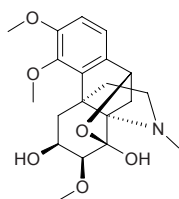


20322 Stepharine

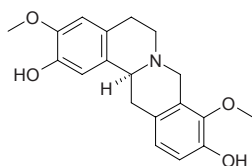
$C_{18}H_{19}NO_3$ (297.36). mp 179~181°C. Source: DA ZAO *Ziziphus jujuba*, QING FENG TENG *Sinomenium acutum*, YOU GOU YING ZHAO *Artabotrys uncinatus* (root, stem and leaf)^[3083]. Ref: 2, 660, 3083.

**20323 Stephasunoline**

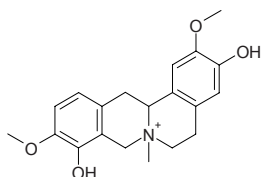
$C_{20}H_{27}NO_6$ (377.44). Source: QIAN JIN TENG *Stephania japonica*. Ref: 660.

**20324 Stepholidine**

[16562-13-3] $C_{19}H_{21}NO_4$ (327.38). mp 126~128°C, 161~163°C. Pharm: Dopamine receptor antagonist (stronger than levo-tetrahydropalmatine and tetrahydroberberine); dopamine D_2 receptor antagonist (rat, anterior pituitary); used in treatment of restless extrapyramidal dyskinesia); antispasmodic (mus, inhibits spontaneous motion, ED_{50} = 258mg/kg); analgesic (mus, acetic acid-induced writhing model ED_{50} = 223mg/kg, electrostimulation model, hot plate model); used in treatment of vascular headache and bilious headache; antihypertensive (dog and rat; treatment of primary hypertension, slow action with enduring curative effects); antioxidant (microsome, lipid peroxidation induced by Fe^{2+}/VC , $CCl_4/NADPH$, or $Fe^{3+}/NADPH$, presents dose-response relationship). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 6, 627, 630, 647, 695, 919, 922.

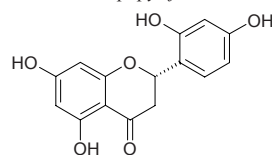
**20325 Steponine**

$C_{20}H_{24}NO_4$ (342.42). Source: QIAN JIN TENG *Stephania japonica*. Ref: 6.

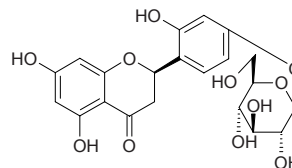
**20326 Steppogenin**

(2*S*)-5,7,2',4'-Tetrahydroxyflavanone $C_{15}H_{12}O_6$ (288.26). Pharm: Cytotoxic (cyclooxygenase-1 inhibitor, IC_{50} = 1.7 μ g/mL)^[5038]; cytotoxic (mouse mammary organ culture assay, 67% at 10 μ g/mL)^[5038]; aromatase inhibitor (*in vitro*, IC_{50} = 2.2 μ mol/L; control Aminoglutethimide, IC_{50} = 6.4 μ mol/L)^[3090].

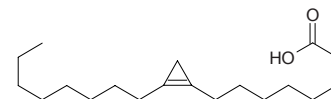
Source: DA DA HE MIAN BAO GUO *Artocarpus dadah*, GOU SHU *Broussonetia papyrifera*. Ref: 3090, 5038.

**20327 Steppogenin 4'-O- β -D-glucoside**

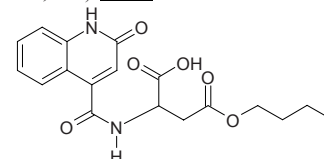
$C_{21}H_{24}O_{11}$ (450.40). Colorless amorphous solid, mp 259~263°C (MeOH/H₂O). Source: ZHUO SE SANG CHENG *Maclura tinctoria*. Ref: 2353.

**20328 Sterculic acid**

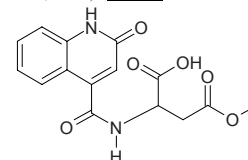
$C_{19}H_{34}O_2$ (294.48). mp 18.2~18.3°C. Source: JIA MA SHU *Sterculia foetida*, MU JIN ZI *Hibiscus syriacus*, WU TONG ZI *Firmiana simplex*. Ref: 6.

**20329 Sterculinine I**

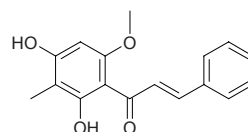
2-[(2-Oxo-1,2-dihydro-quinoline-4-carbonyl)-amino]-succinic acid 4-*n*-butyl ester $C_{18}H_{20}N_2O_6$ (360.37). White powder, mp 184~186°C, $[\alpha]_D^{20}$ = +24.2° (c = 0.50, H₂O). Source: PANG DA HAI *Sterculia lychnophora* (seed). Ref: 3394.

**20330 Sterculinine II**

2-[(2-Oxo-1,2-dihydro-quinoline-4-carbonyl)-amino]-succinic acid 4-methyl ester $C_{15}H_{14}N_2O_6$ (318.29). White powder, mp 176~178°C, $[\alpha]_D^{20}$ = +25° (c = 0.50, H₂O). Source: PANG DA HAI *Sterculia lychnophora* (seed). Ref: 3394.

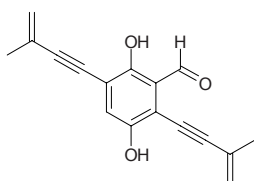
**20331 Stercurensin**

$C_{17}H_{16}O_4$ (284.31). Source: YANG PU TAO YE *Syzygium samarangense*. Ref: 4100.

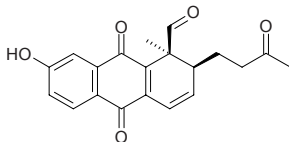


20332 Sterehirsutinal

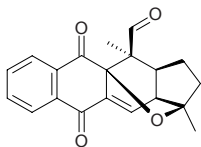
$C_{17}H_{14}O_3$ (266.30). Yellow solid. Pharm: Phytotoxin (callus of *Vitis vinifera*, GI₅₀ = 100 μ mol/L). Source: MAO REN GE JUN *Stereum hirsutum*. Ref: 3930.

**20333 Sterekunthal A**

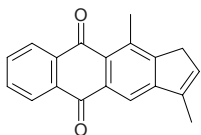
$C_{20}H_{18}O_5$ (338.36). Yellow oil, $[\alpha]_D^{22} = -10^\circ$ ($c = 0.44$, $CHCl_3$). Pharm: Antimalarial (antiplasmodial); toxic (endothelial cell line ECV-304). Source: WU GAN DA YU YE QIU *Stereospermum kunthianum*. Ref: 2019.

**20334 Sterekunthal B**

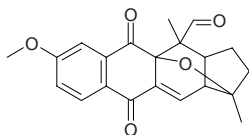
$C_{20}H_{18}O_4$ (322.36). Colorless oil. Pharm: Antimalarial (antiplasmodial); toxic (endothelial cell line ECV-304). Source: WU GAN DA YU YE QIU *Stereospermum kunthianum*. Ref: 2019.

**20335 Sterequinone A**

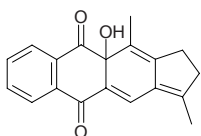
$C_{19}H_{14}O_2$ (274.32). Pale yellow semi solid. Source: JIA MIAN YU YE QIU *Stereospermum personatum*. Ref: 3424.

**20336 Sterequinone B**

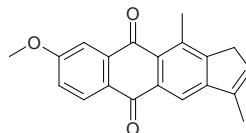
$C_{21}H_{20}O_5$ (352.39). Yellow solid, mp 138°C. Source: JIA MIAN YU YE QIU *Stereospermum personatum*. Ref: 3424.

**20337 Sterequinone C**

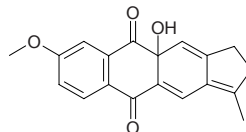
$C_{19}H_{16}O_3$ (292.34). Pale yellow solid, mp 199°C. Source: JIA MIAN YU YE QIU *Stereospermum personatum*. Ref: 3424.

**20338 Sterequinone D**

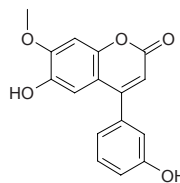
$C_{20}H_{16}O_3$ (304.35). Yellow syrup. Source: JIA MIAN YU YE QIU *Stereospermum personatum*. Ref: 3424.

**20339 Sterequinone E**

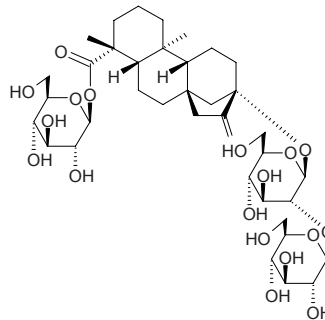
$C_{19}H_{16}O_4$ (308.34). Semi solid. Source: JIA MIAN YU YE QIU *Stereospermum personatum*. Ref: 3424.

**20340 Stevenin**

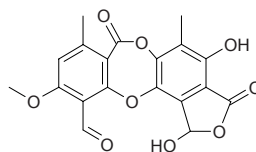
Stevein; Stevenine [36286-69-8] $C_{16}H_{12}O_5$ (284.27). Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 716.

**20341 Stevioside**

$C_{38}H_{60}O_{18}$ (804.89). Hygroscopic crystals, mp 198°C, $[\alpha]_D^{25} = -39.3^\circ$ ($c = 5.7$, water). Pharm: Hypoglycemic; antihypertensive; promotes metabolism; used in treatment of gastric hyperacidity; toxin (rat, orl, 5g/(kg-d) for 90 days, no pathological change observed); LD₅₀ (rat, ip) ≥ 3400 mg/kg. Source: TIAN CHA *Rubus suavissimus*, TIAN YE JU *Eupatorium rebaudianum* (dried leaf: content scope = 3.47%~16.00%, mean content = 9.66%^[5508]). Ref: 661, 5508.

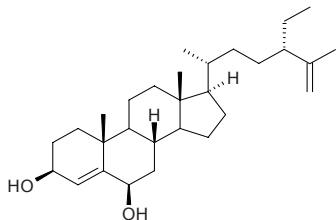
**20342 Stictic acid**

$C_{19}H_{14}O_9$ (386.32). Source: XIAO LA BA *Cladonia verticillata*. Ref: 660.

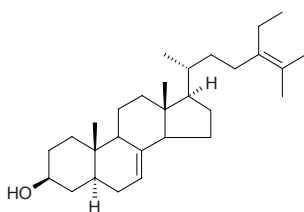


20343 Stigmasta-4,25-dien-3 β ,6 β -diol

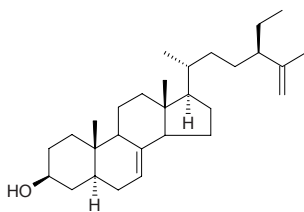
$C_{29}H_{48}O_2$ (428.70). Colorless acicular crystals, mp 242~243°C. Source: LUE DA AO DING ZAO *Laurencia majuscula*. Ref: 2152.

**20344 7,24-Stigmastadienol**

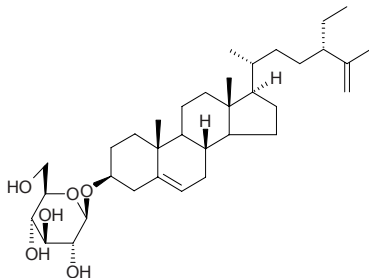
$C_{29}H_{48}O$ (412.71). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 2.

**20345 7,25-Stigmastadienol**

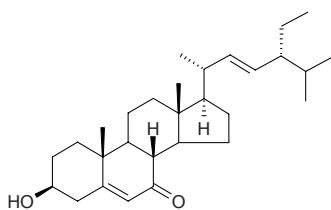
$C_{29}H_{48}O$ (412.71). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 2.

**20346 5,25-Stigmastadien-3 β -ol- β -D-glucoside**

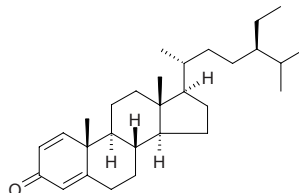
$C_{35}H_{58}O_6$ (574.85). Source: KU GUA *Momordica charantia*. Ref: 6.

**20347 Stigmasta-5,22-dien-3 β -ol-7-one**

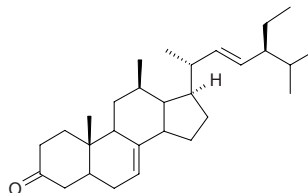
$C_{29}H_{46}O_2$ (426.69). Source: MA GEN *Cannabis sativa*. Ref: 660.

**20348 (22E,24R)-Stigmasta-1,4-dien-3-one**

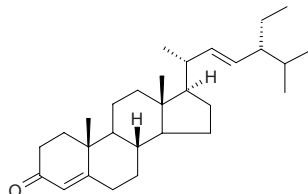
$C_{29}H_{46}O$ (410.69). Colorless needles (MeOH), mp 89~91°C, $[\alpha]_D^{24} = +22.8^\circ$ ($c = 0.33$, $CHCl_3$). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L AA-induced, AggRt = 2.4%, control 50 μ mol/L Aspirin, AggRt = 100%; 10 μ g/mL collagen-induced, AggRt = 1.8%, 100 μ mol/L Aspirin, AggRt = 4.9%; 0.1U/mL thrombin-induced, AggRt = 5.2%, 100 μ mol/L Aspirin, AggRt = 1.7%; 2ng/mL PAF-induced, AggRt = 4.2%, 100 μ mol/L Aspirin, AggRt = 2.1%). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.

**20349 (22E,20S,24S)-Stigmasta-7,22-dien-3-one**

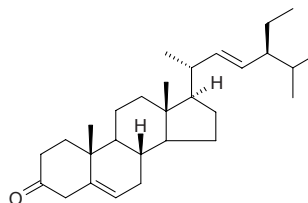
$C_{29}H_{46}O$ (410.69). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**20350 Stigmasta-4,22-dien-3-one**

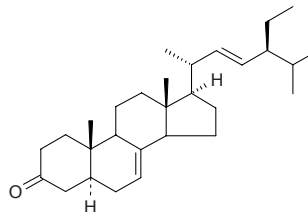
$C_{29}H_{46}O$ (410.69). Source: MA GEN *Cannabis sativa*. Ref: 660.

**20351 Stigmasta-5,22-dien-3-one**

$C_{29}H_{46}O$ (410.69). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

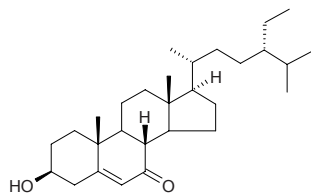
**20352 5 α -Stigmasta-7,22-dien-3-one**

$C_{29}H_{46}O$ (410.69). Source: DANG SHEN *Codonopsis pilosula*. Ref: 2.

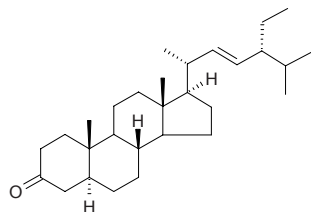


20353 Stigmasta-5-en-3 β -ol-7-one

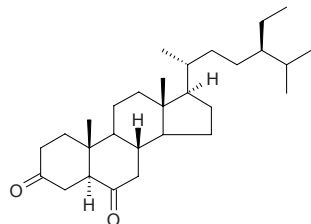
$C_{29}H_{48}O_2$ (428.70). Source: MA GEN *Cannabis sativa*. Ref: 660.

**20354 5 α -Stigmasta-22-en-3-one**

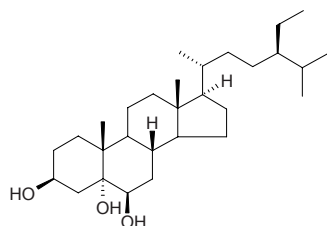
$C_{29}H_{48}O$ (412.71). Source: MA GEN *Cannabis sativa*. Ref: 660.

**20355 5 α -Stigmastan-3,6-dione**

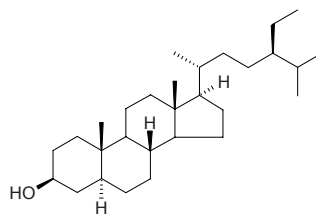
$C_{29}H_{48}O_2$ (428.70). Colorless amorphous crystals, mp 192–194°C, $[\alpha]_D^{25} = +26.7^\circ$ ($c = 0.19$, $CHCl_3$). Pharm: Antimutagenic (*E. coli* PQ37, antigenotoxicity test, for mutagen MNNG shows 30% reduction of induction factor, for mutagen NQO, shows 40% reduction of induction factor)^[4459]. Source: BAO XING WEI MAO *Euonymus mupinensis*, PU HUANG *Typha angustata*, ZAO JIA CI *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (thorn). Ref: 2, 278, 4459.

**20356 Stigmastane-3 β ,5 α ,6 β -triol**

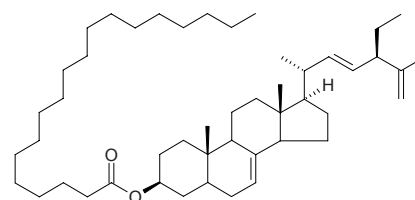
$C_{29}H_{52}O_3$ (448.74). Pharm: Cytotoxic (P_{388} , $ED_{50} > 50\mu g/mL$, control Mithramycin, $ED_{50} = 0.58\mu g/mL$; A549, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.073\mu g/mL$; HT29, $ED_{50} > 50\mu g/mL$, Mithramycin, $ED_{50} = 0.076\mu g/mL$). Source: MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 5421.

**20357 Stigmastanol**

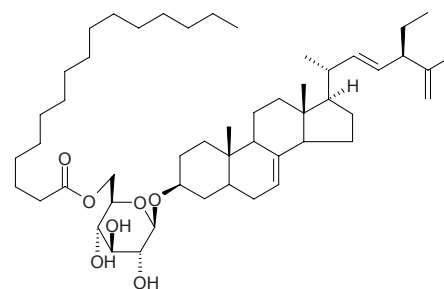
[19466-47-8] $C_{29}H_{52}O$ (416.74). White lamellar crystals, mp 110–112°C. Source: GUA LOU *Trichosanthes kirilowii*, LU CAO *Rhaponticum carthamoides*. Ref: 2, 698.

**20358 Stigmasta-7,22,25-triene-3-nonadecanoic acid ester**

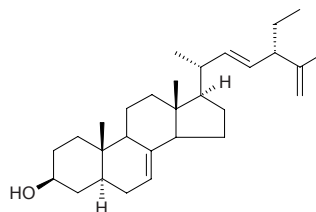
$C_{48}H_{82}O_2$ (691.19). Colorless lamellar crystals (acetone), mp 100–101°C. Source: JIA BEI MU *Bolbostemma paniculatum* (bulb). Ref: 4819.

**20359 Stigmasta-7,22,25-triene-3-O- β -D-(6'-palmitoyl)glucopyranoside**

$C_{51}H_{86}O_7$ (811.25). White waxy solid, mp 84–86°C. Source: JIA BEI MU *Bolbostemma paniculatum* (bulb). Ref: 4819.

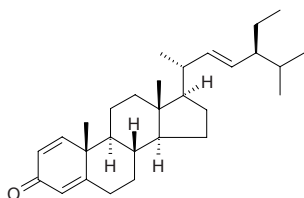
**20360 7,22,25-Stigmastatrienol**

$C_{29}H_{46}O$ (410.69). Source: GUA LOU *Trichosanthes kirilowii*. Ref: 2.

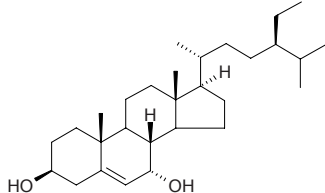


20361 (22E,24S)-Stigmasta-1,4,22-trien-3-one

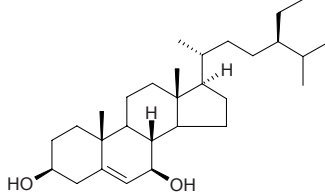
$C_{29}H_{44}O$ (408.67). Colorless needles (MeOH), mp 100~101°C, $[\alpha]_D^{27} = +25.5^\circ$ ($c = 0.03$, $CHCl_3$). **Pharm:** Platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L AA-induced, AggRt = 1.5%, control 50 μ mol/L Aspirin, AggRt = 100%; 10 μ g/mL collagen-induced, AggRt = 0.4%, 100 μ mol/L Aspirin, AggRt = 4.9%; 0.1U/mL thrombin-induced, AggRt = 4.2%, 100 μ mol/L Aspirin, AggRt = 1.7%; 2ng/mL PAF-induced, AggRt = 3.4%, 100 μ mol/L Aspirin, AggRt = 2.1%). **Source:** SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). **Ref:** 5427.

**20362 Stigmast-5-ene-3 β ,7 α -diol**

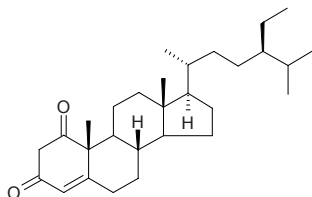
$C_{29}H_{50}O_2$ (430.72). **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 31.31\mu$ g/mL, control Mithramycin, $ED_{50} = 0.58\mu$ g/mL; A549, $ED_{50} > 50\mu$ g/mL, Mithramycin, $ED_{50} = 0.073\mu$ g/mL; HT29, $ED_{50} = 28.87\mu$ g/mL, Mithramycin, $ED_{50} = 0.076\mu$ g/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**20363 Stigmast-5-ene-3 β ,7 β -diol**

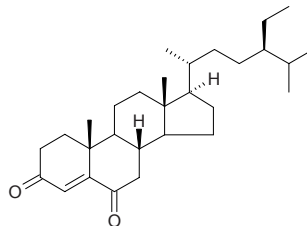
$C_{29}H_{50}O_2$ (430.72). **Pharm:** Cytotoxic (P_{388} , $ED_{50} = 6.39\mu$ g/mL, control Mithramycin, $ED_{50} = 0.58\mu$ g/mL; A549, $ED_{50} = 10.95\mu$ g/mL, Mithramycin, $ED_{50} = 0.073\mu$ g/mL; HT29, $ED_{50} = 8.09\mu$ g/mL, Mithramycin, $ED_{50} = 0.076\mu$ g/mL). **Source:** MO ZHI JIAO GU CUI *Casearia membranacea* (stem). **Ref:** 5421.

**20364 Stigmast-4-ene-1,3-dione**

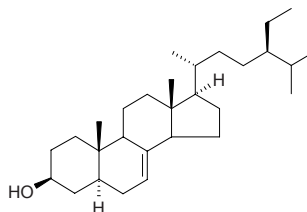
$C_{29}H_{46}O_2$ (426.69). White plate crystals, mp 144~146°C. **Source:** SHA REN *Amomum villosum*. **Ref:** 518.

**20365 Stigmast-4-ene-3,6-dione**

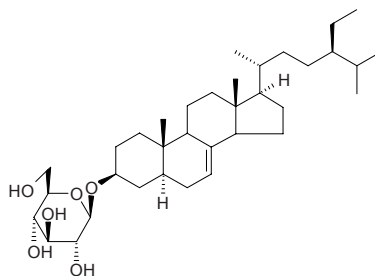
$C_{29}H_{46}O_2$ (426.69). Colorless amorphous crystals, mp 168~169°C, $[\alpha]_D^{25} = -21.4^\circ$ ($c = 0.15$, $CHCl_3$). **Pharm:** Antimutagenic (*E. coli* PQ37, antigenotoxicity test, for mutagen MNNG shows 30% reduction of induction factor, for mutagen NQO, shows 25% reduction of induction factor). **Source:** ZAO JIA CI *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (thorn). **Ref:** 4459.

**20366 5 α -Stigmast-7-en-3 β -ol**

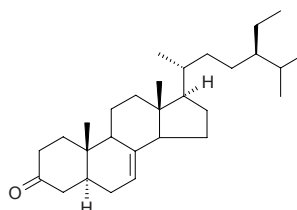
$C_{29}H_{50}O$ (414.72). mp 137~140°C. **Source:** XIA KU CAO *Prunella vulgaris*, YAO YONG PU GONG YING *Taraxacum officinale*. **Ref:** 6, 660, 2508.

**20367 7-Stigmastenol-3-O- β -D-glucoside**

$C_{35}H_{60}O_6$ (576.86). **Source:** DANG SHEN *Codonopsis pilosula*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], TIAN HUA FEN *Trichosanthes kirilowii*, SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.0006%dw). **Ref:** 2, 660, 4702.

**20368 7-Stigmastenone-3**

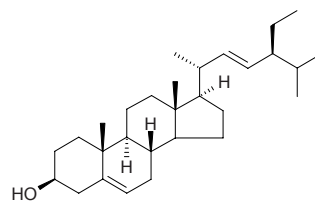
$C_{29}H_{48}O$ (412.71). **Source:** DANG SHEN *Codonopsis pilosula*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. **Ref:** 2, 660.



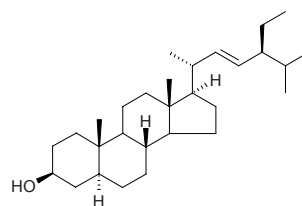
20369 Stigmasterol

(22E)-Stigmasta-5,22-dien-3 β -ol [83-48-7] C₂₉H₄₈O (412.71). mp 170°C, [α]_D²⁷ = -42.9° (c = 1.2, CHCl₃). **Pharm:** Antihypercholesterolemic (chick, reduces the level of cholesterol in serum); antimutagenic (*E. coli* PQ37, antigenotoxicity test, for mutagen MNNG shows 51.2% reduction of induction factor, for mutagen NQO, shows 64.2% reduction of induction factor)^[4459]; cytotoxic inactive (A2780 ovarian cancer cell line, IC₅₀ = 26.3mg/mL)^[5379]; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100 μ mol/L)^[3057]; antileishmanial (*Leishmania donovani* promastigotes, IC₅₀ > 1209 μ mol/L, control Pentamidine, IC₅₀ = 0.40 μ mol/L, amastigotes, IC₅₀ > 90 μ mol/L, control Pentostam, IC₅₀ = 9.75 μ g/mL)^[5127]; antimalarial (*Plasmodium falciparum* K1, IC₅₀ > 1209 μ mol/L, control Chloroquine, IC₅₀ = 0.59 μ mol/L)^[5127]; antitrypanosomal (*Trypanosoma brucei brucei* blood stream trypomastigotes, IC₅₀ > 30 μ mol/L, control Pentamidine, IC₅₀ = 0.00034 μ mol/L)^[5127]; cytotoxic (KB cells, IC₅₀ > 1272 μ mol/L, control Pentamidine, IC₅₀ = 0.17 μ mol/L)^[5127]; platelet aggregation inhibitor (washed rabbit platelets, 100 μ g/mL, 100 μ mol/L AA-induced, InRt = 0.5%, control 50 μ mol/L Aspirin, InRt = 100%; 10 μ g/mL collagen-induced, InRt = 1.7%, 100 μ mol/L Aspirin, InRt = 4.9%; 0.1U/mL Thrombin-induced, InRt = 4.6%, 100 μ mol/L Aspirin, InRt = 1.7%; 2ng/mL PAF-induced, InRt = 2.8%, 100 μ mol/L Aspirin, InRt = 2.1%)^[5427]; antiviral (*in vitro*, Para3 Virus, IC₅₀ = 10.3 μ g/mL, TC₅₀ = 165 μ g/mL, TI = 3.6; control Ribavirin, IC₅₀ = 2.6 μ g/mL, TC₅₀ = 62.5 μ g/mL, TI = 24.0)^[3089]. **Source:** AI YE *Artemisia argyi*, BAI FAN DOU *Phaseolus vulgaris*, BAI GUO *Ginkgo biloba*, BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], BEI SHA SHEN *Glehnia littoralis* (root: mean content = 0.0178%)^[5508], BIAN DOU *Dolichos lablab*, BU GU ZHI *Psoralea corylifolia*, CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], CHAI HU *Bupleurum chinense*, CHAO XIAN BAI TOU WENG *Pulsatilla cernua*, CHE QIAN *Plantago asiatica*, CHE SANG ZI YE *Dodonaea viscosa*, CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0227%)^[5508], CU LIU GUO *Hippophae rhamnoides*, DA CHE QIAN *Plantago major*, DA JI⁽⁴⁾ *Cirsium japonicum*, DA ZAO *Ziziphus jujuba*, DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0125%)^[5508], DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex), DU BIAN DOU *Physostigma venenosum*, E BU SHI CAO *Centipeda minima*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GAN ZHE *Saccharum sinensis*, GOU QI ZI *Lycium chinense*, GU SUI BU *Drynaria fortunei*, GUA LOU *Trichosanthes kirilowii*, GUAN MU TONG *Aristolochia manshuriensis* (stem)^[4706], GUANG JING QIAN CAO *Rubia wallichiana* (stem), *Guarea rhopalocarpa* (leaf), HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HEI DA DOU *Glycine max*, HUANG HUA HAO *Artemisia annua*, HUANG HUA YUAN ZHI *Polygala arillata*, HUANG QIN *Scutellaria baicalensis*, HUI HUI SU *Perilla frutescens* var. *crispa*, HUI XIANG *Foeniculum vulgare*, JIA SUAN JIANG *Nicandra physaloides*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], JIAO GAN *Citrus tankan*, JIN YIN HUA *Lonicera japonica*, JING MI *Oryza sativa*, KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], KU DI DAN *Elephantopus scaber*, KU SHI LIAN *Caesalpinia minax* (seed)^[3089], KUAI JING GE

Pueraria tuberosa, LANG YU PI *Ulmus parvifolia*, LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*], LU BIAN QING *Clerodendron cyrtophyllum*, LU ZHU GEN *Arundo donax*, LUO HUA SHENG *Arachis hypogaea*, MAI DONG *Ophiopogon japonicus*, MAN JIU JIE *Psychotria serpens*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0031%^[3026]), MING DANG SHEN *Changium smyrnioides*, MU SHU DI SHANG BU FEN *Manihot esculenta*, MU TONG *Akebia quinata*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PU DI WU GONG *Lycopodium cernuum*, QING FENG TENG *Sinomenium acutum*, QIU HUA DANG SHEN *Codonopsis subglobosa* (dried root: content = 0.0283%^[5508]), REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SAN ZUAN FENG *Lindera obtusiloba*, SHAN GAN CAO *Mussaenda pubescens*, SHAN WO JU *Lactuca indica*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], SHENG HONG JI *Ageratum conyzoides*, SHUI TUAN HUA *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], SHUI XIAN CAO *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: mean content = 0.0176%)^[5508], TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN GE NA XIANG *Goniothalamus amuyon* (fresh stem and leaf)^[4686], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TIAN MING JING *Carpesium abrotanoides*, WU GENG WU JIA PI *Acanthopanax sessiliflorus*, XI XIAN *Siegesbeckia orientalis*, XIANG PI MU *Alstonia scholaris*, XIANG SI ZI *Abrus precatorius*, XIAO HONG SHEN *Rubia yunnanensis* (root)^[4646], YANG JIAO TENG *Morinda umbellata*, YANG SHI CAO *Achillea millefolium*, YAO YONG PU GONG YING *Taraxacum officinale*, YE ZI RANG *Cocos nucifera*, YI HE GUO *Ventilago leiocarpa* (stem)^[3057], YI MI *Coix lacryma-jobi*, YING HE *Scleropyrum wallichianum* (twig), YING SU *Papaver somniferum*, YU SHU SHU *Zea mays*, YU SHU *Ulmus pumila*, YUN SHI *Caesalpinia decapetala* (leaf), ZAN BI XI BA DOU *Croton zambesicus* (leaf), ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZHU YE LAN *Arundina chinensis*, occurs in many plants. **Ref:** 2, 345, 372, 511, 658, 660, 2529, 3026, 3057, 3075, 3089, 3807, 4369, 4456, 4459, 4483, 4488, 4520, 4646, 4676, 4686, 4706, 5127, 5379, 5427, 5501, 5508.

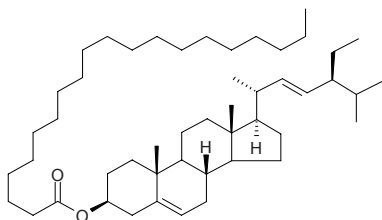
**20370 22-Stigmasterol**

C₂₉H₅₀O (414.72). mp 158–159°C. **Source:** CHAI HU *Bupleurum chinense*. **Ref:** 6.

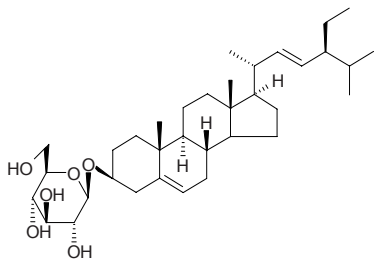


20371 Stigmasterol arachidate

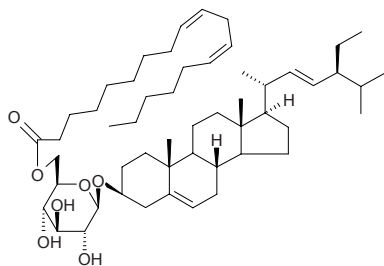
$C_{49}H_{86}O_2$ (707.23). White lamellar crystals, (*n*-hexane) mp 96–98°C. Source: KUI BAN ER YE TAI *Frullania muscicola*. Ref: 2117.

**20372 Stigmasterol- β -D-glucoside**

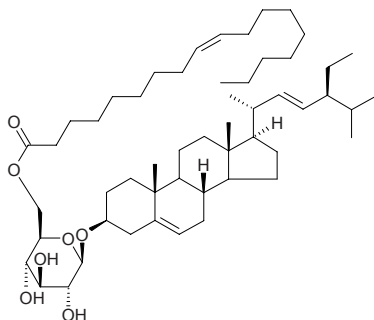
Stigmasterol 3-*O*- β -D-glucoside $C_{35}H_{58}O_6$ (574.85). Source: BIAN ZHONG CHANG YE AN LUO *Polyalthia longifolia* var. *pendula*, DANG SHEN *Codonopsis pilosula*, DANG GUI *Angelica sinensis*, HUANG HUA YUAN ZHI *Polygala arillata*, MANG QI GU *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], SAN QI HUA LEI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (flower bud: yield = 0.0047%dw)^[4702], SHUI LIU DOU *Pongamia pinnata* (stem cortex: yield = 0.0013%)^[4721]. Ref: 2, 345, 4702, 4721, 5386.

**20373 Stigmasterol-3-(6-linoleoyl)glucopyranoside**

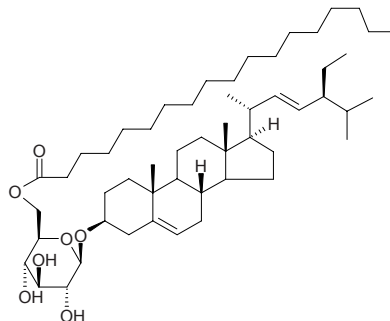
$C_{53}H_{88}O_7$ (837.29). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 660.

**20374 Stigmasterol-3-(6-oleoyl)glucopyranoside**

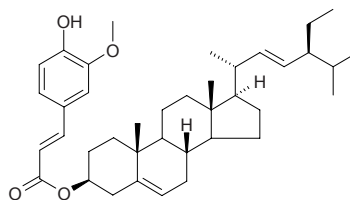
$C_{53}H_{90}O_7$ (839.30). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 660.

**20375 Stigmasterol-3-(6-stearoyl)glucopyranoside**

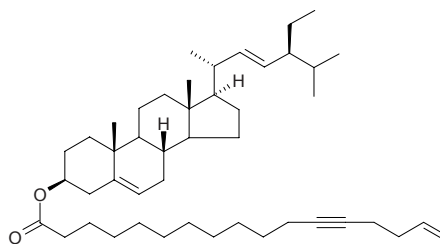
$C_{53}H_{92}O_7$ (841.32). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 660.

**20376 Stigmasteryl ferulate**

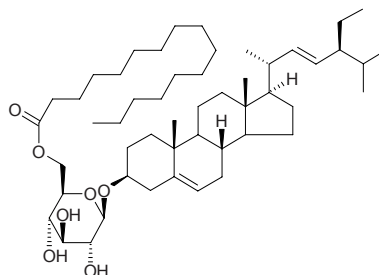
$C_{39}H_{56}O_4$ (588.88). Source: MI PI KANG *Oryza sativa*. Ref: 6.

**20377 Stigmasteryl-3-*O*-scleropyrate**

$C_{46}H_{74}O_2$ (659.10). Amorphous. Pharm: Antitubercular inactive (*Mycobacterium tuberculosis* H₃₇Ra); antiplasmodial inactive (parasite *Plasmodium falciparum* K1 multidrug-resistant strain). Source: YING HE *Scleropyrum wallichianum* (twig). Ref: 4520.

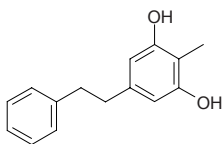
**20378 Stigmast-3-*O*- β -D-glucopyranosyl-6-hexadecanoate**

$C_{51}H_{88}O_7$ (813.27). White amorphous powder (methanol). Source: JI YE QIU HAI TANG *Begonia limprichtii*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 431, 660.

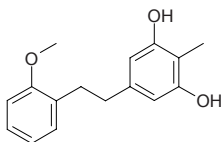


20379 Stilbostemin B

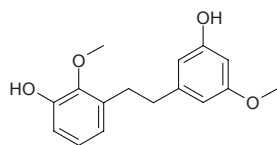
$C_{15}H_{16}O_2$ (228.29). Source: *Stemona cf. pierrei* (underground parts). Ref: 3751.

**20380 Stilbostemin D**

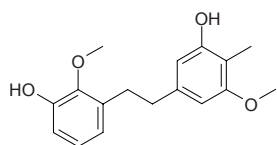
$C_{16}H_{18}O_3$ (256.32). Source: *Stemona cf. pierrei* (underground parts). Ref: 3751.

**20381 Stilbostemin E**

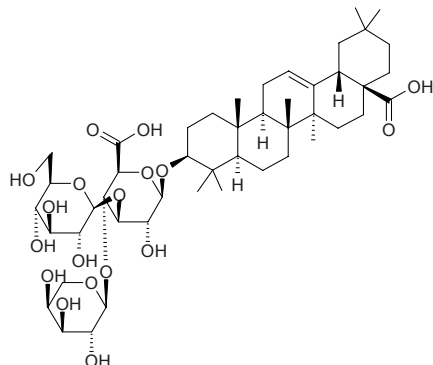
$C_{16}H_{18}O_4$ (274.32). Source: *Stemona cf. pierrei* (underground parts). Ref: 3751.

**20382 Stilbostemin G**

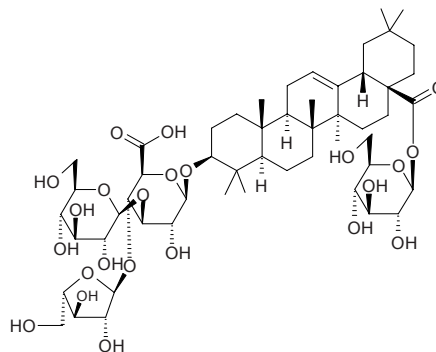
1-(3-Hydroxy-5-methoxy-4-methylphenyl)-2-(3-hydroxy-2-methoxyphenyl)-ethane $C_{17}H_{20}O_4$ (288.35). Pharm: Antifungal (*Pyricularia grisea*, $EC_{50} > 200\mu\text{g/mL}$, $EC_{90} > 200\mu\text{g/mL}$; *Cladosporium herbarum*, $EC_{50} = 71\mu\text{g/mL}$, $EC_{90} > 200\mu\text{g/mL}$; *Fusarium avenaceum*, $EC_{50} = 48\mu\text{g/mL}$, $EC_{90} > 200\mu\text{g/mL}$; *Alternaria citri*, $EC_{50} = 144\mu\text{g/mL}$, $EC_{90} > 200\mu\text{g/mL}$; *Botrytis cinerea*, $EC_{50} > 200\mu\text{g/mL}$, $EC_{90} > 200\mu\text{g/mL}$). Source: *Stemona cf. pierrei* (underground parts). Ref: 3751.

**20383 Stipuleanoside R₁**

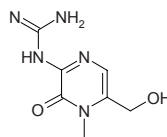
Tatasaponin I [96627-79-1] $C_{47}H_{74}O_{18}$ (927.10). White amorphous powder, mp 223–225°C; 285–290°C. Pharm: Hypoglycemic (rat, 100mg/mL orl); inhibits alcohol in blood (rat, orl, 100mg/kg). Source: LIAO DONG CONG MU *Aralia elata*. Ref: 900.

**20384 Stipuleanoside R₂**

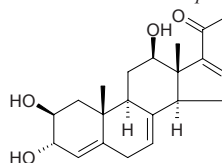
[96627-72-4] $C_{53}H_{84}O_{23}$ (1089.25). White powder crystals, mp 260–263°C (dec) (methanol–acetone), $[\alpha]_D^{23.8} = -17.92^\circ$ ($c = 1$, methanol). Pharm: Inhibits alcohol in blood (rat orl, 100mg/kg). Source: LIAO DONG CONG MU *Aralia elata*. Ref: 900.

**20385 Stizolamine**

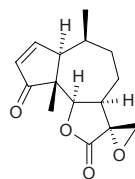
$C_7H_{11}N_5O_2$ (197.20). Source: HUI JIAO *Sophora japonica*, YE GUAN MEN *Lespedeza cuneata*. Ref: 660.

**20386 Stizophyllin**

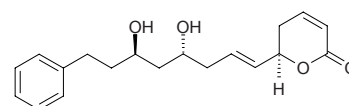
2 β ,3 α ,12 β -Trihydroxypregna-4,7,16-trien-20-one $C_{21}H_{28}O_4$ (344.45). Amorphous yellowish solid, $[\alpha]_D^{20} = +79.1^\circ$ ($c = 0.58$, $CHCl_3$). Source: LU SHENG GE JUN *Thelephora terrestris*. Ref: 4446.

**20387 Stramonin B**

$C_{15}H_{18}O_4$ (262.31). Pharm: Antineoplastic; cytotoxic. Source: family Asteraceae spp. Ref: 658.

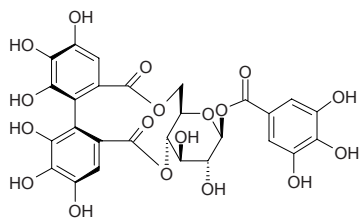
**20388 Strictifolione**

$C_{19}H_{24}O_4$ (316.40). Fine colorless needles, mp 119–121°C, $[\alpha]_D^{24} = +81.5^\circ$ ($c = 0.52$, $CHCl_3$). Source: ZHI LI YE HOU KE GUI *Cryptocarya strictifolia* (stem cortex). Ref: 5082.

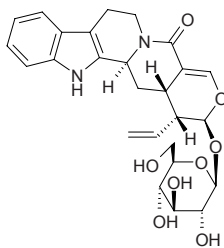


20389 Strictinin

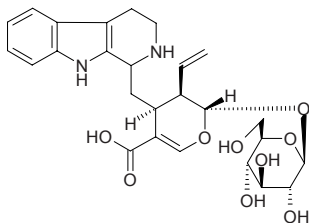
[517-46-4] C₂₇H₂₂O₁₈ (634.46). white-like amorphous powder, [α]_D = -3° (*c* = 0.4, methanol). **Pharm:** Cytotoxic (malanotic carcinoma RPMI-7951, ED₅₀ = 4.86 μg/mL); inhibits lipolysis (rat fat cells, induced by adrenalin); DNA topoisomerase II inhibitor (*in vitro*, IC₁₀₀ = 0.5 μmol/L); HIV-1 reverse transcriptase inhibitor (IC₅₀ = 0.087 μmol/L); antioxidant (SOD-like activity, EC₅₀ = 48.9 μmol/L, control Gallic acid, EC₅₀ = 31.7 μmol/L, *L*-Ascorbic acid, EC₅₀ = 34.6 μmol/L)^[3408]; antioxidant (DPPH scavenger, EC₅₀ = 26.8 μmol/L, control Gallic acid, EC₅₀ = 5.88 μmol/L, *L*-Ascorbic acid, EC₅₀ = 6.25 μmol/L)^[3408]. **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0076%fw)^[4695], BAN LI *Castanea mollissima* (leaf), CHI YANG *Alnus japonica*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], FAN SHI LIU YE *Psidium guajava*, HU TAO REN *Juglans regia*, HUA XIANG SHU YE *Platycarya strobilacea*, MEI GUI HUA *Rosa rugosa*. **Ref:** 660, 900, 3408, 4695.

**20390 Strictosamide**

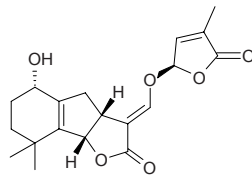
C₂₆H₃₀N₂O₈ (498.54). Yellowish amorphous solid, mp 176~177°C (MeOH), [α]_D²² = -56.3° (*c* = 0.15, MeOH). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark)^[3074], GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00024%dw)^[4723], KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.15%), LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb). **Ref:** 2, 2178, 3074, 4303, 4527, 4723.

**20391 Strictosidinic acid**

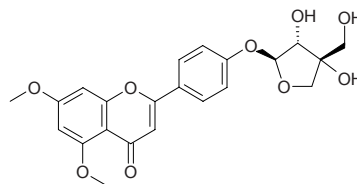
C₂₆H₃₂N₂O₉ (516.55). **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 4097.

**20392 Strigol**

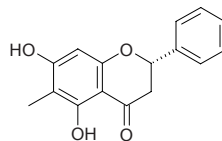
C₁₉H₂₂O₆ (346.39). **Pharm:** Promotes germination (seeds of *Striga lutea*). **Source:** LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*]. **Ref:** 658.

**20393 Strobilanthin**

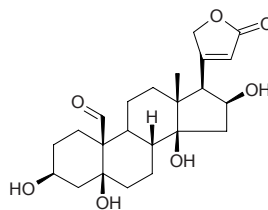
5,7-Dimethoxy-4'-hydroxyflavone-4'-*O*-apioside C₂₂H₂₂O₉ (430.42). Yellowish crystalline powder, mp 214~216°C. **Source:** HONG ZE LAN *Strobilanthes japonicus* [Syn. *Championella japonica*]. **Ref:** 654.

**20394 (-)-Strobopinin**

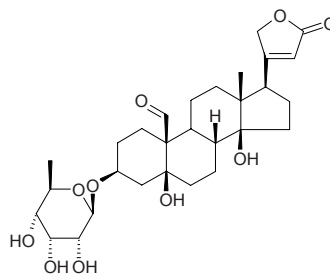
6-Methylpinocembrin C₁₆H₁₄O₄ (270.29). [α]_D²⁵ = -83.3° (*c* = 0.42, acetone). **Pharm:** Inhibits cell proliferation of PBMC (activated by phytohemagglutinin (PHA), IC₅₀ = 36.3 μmol/L, inhibitory mechanism may involve the blocking of IL-2 and IFN-γ production). **Source:** YANG PU TAO YE *Syzygium samarangense*. **Ref:** 4100.

**20395 Strophadogenin**

[808-18-4] C₂₃H₃₂O₇ (420.51). mp 233~237°C, [α]_D = +50.1°. **Source:** HEI GANG LIU *Periploca nigrescens*. **Ref:** 1521, 2498.

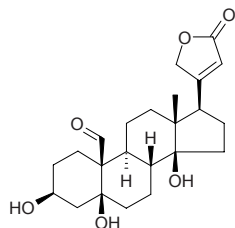
**20396 Strophalloside**

C₂₉H₄₂O₁₀ (550.65). **Source:** JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. **Ref:** 660.

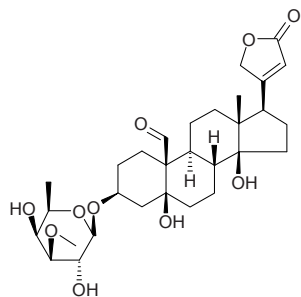


20397 Strophanthidin

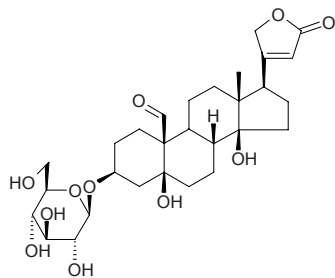
Apocynarin [66-28-4] $C_{23}H_{32}O_6$ (404.51). Crystals, +2H₂O (H₂O), mp 169~170°C, $[\alpha]_D^{25} = +43.1^\circ$ (MeOH); mp 235°C (anhydride). **Pharm:** Cytotoxic (*in vitro*, HL-60 IC₅₀ > 10µg/mL; PC-3M-1E8 IC₅₀ = 4.48µg/mL; BGC823 IC₅₀ = 0.0225µg/mL; MDA-MB-435 IC₅₀ = 0.142µg/mL; Bel7402 IC₅₀ = 2.34µg/mL; HeLa IC₅₀ = 0.541µg/mL)^[2548]. **Source:** BO NIANG HAO *Descurainia Sophia* (seeds), KANG PI DU MAO XUAN HUA *Strophanthus kombe*, HEI GANG LIU *Periploca nigrescens*, LUO BU MA *Apocynum venetum*, GUI ZHU TANG JIE *Erysimum cheiranthoides*, FU SHOU CAO *Adonis amurensis*. **Ref:** 5, 1521, 2498, 2548.

**20398 Strophanthidin-β-D-digitaloside**

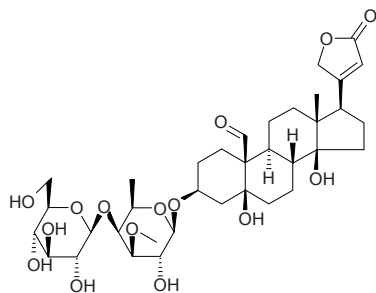
$C_{30}H_{44}O_{10}$ (564.68). **Source:** LUO BU MA *Apocynum venetum*. **Ref:** 2.

**20399 Strophanthidin-glucoside**

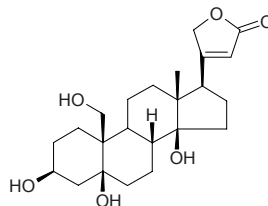
$C_{29}H_{42}O_{11}$ (566.65). mp 163~168°C. **Source:** HEI GANG LIU *Periploca nigrescens*. **Ref:** 1521, 2498.

**20400 Strophanthidin-β-D-glucosyl-(1→4)-β-D-digitaloside**

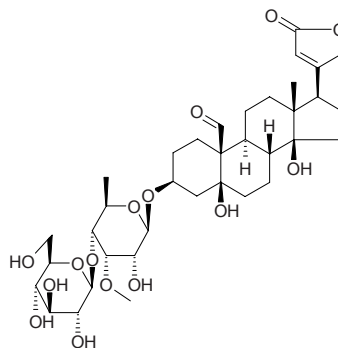
$C_{36}H_{54}O_{15}$ (726.82). **Source:** LUO BU MA *Apocynum venetum*. **Ref:** 2.

**20401 Strophanthidol**

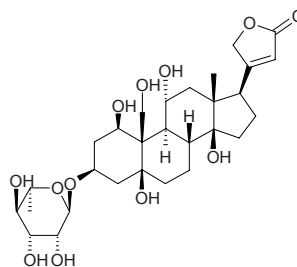
$C_{23}H_{34}O_6$ (406.52). **Source:** HEI GANG LIU *Periploca nigrescens*. **Ref:** 1521, 2498.

**20402 Strophanthin**

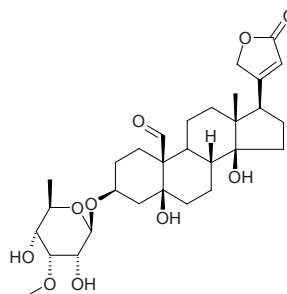
$C_{36}H_{54}O_{15}$ (726.82). mp 195°C. **Source:** FU SHOU CAO *Adonis amurensis*. **Ref:** 6.

**20403 Strophanthin G**

Ouabain $C_{29}H_{44}O_{12}$ (584.67). **Pharm:** Cardiotonic; used in treatment of acute heart failure with edema of lungs and cardiogenic shock; toxin (vertebrate); LD₅₀ (rat, iv) = 14mg/kg, (cat, iv) = 0.11g/kg, (male Swiss webster mus, ip) = 6.5mg/kg. **Source:** XUAN HUA YANG JIAO AO *Strophanthus gratus*, YANG JIAO AO ZI *Strophanthus divaricatus*. **Ref:** 658, 661, 1395.

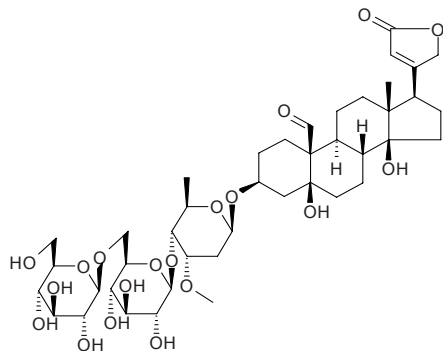
**20404 Strophanthojavoside**

$C_{30}H_{40}O_{10}$ (564.68). **Source:** JIAN XUE FENG HOU *Antiaris toxicaria* [Syn. *Ambora toxicaria*]. **Ref:** 660.

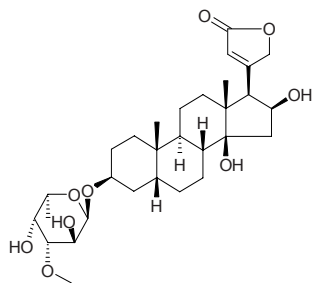


20405 k-Strophantylside

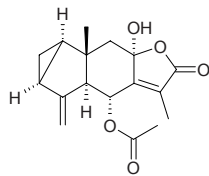
$C_{42}H_{64}O_{19}$ (872.97). mp 199~200°C. **Pharm:** Cardiac glycoside (fast-acting); LD₅₀ (rat, iv) = 15mg/kg. **Source:** FU SHOU CAO *Adonis amurensis* (root: content = 0.26%), KANG PI DU MAO XUAN HUA *Strophanthus kombe*, YANG JIAO AO ZI *Strophanthus divaricatus*. **Ref:** 4, 5508.

**20406 Strosposide**

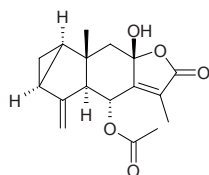
[595-21-1] $C_{30}H_{46}O_9$ (550.70). mp 246~250°C. **Source:** JIA ZHU TAO *Nerium indicum*, MAO DI HUANG *Digitalis purpurea* (dried leaf: content = 0.002%)^[5508]. **Ref:** 6, 5508.

**20407 Strychnistenolide 6-O-acetate A**

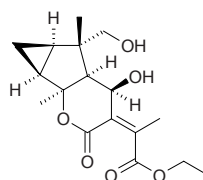
$C_{17}H_{20}O_5$ (304.35). **Pharm:** Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100μmol/L, positive control Suramin, IC₅₀ = 2.4μmol/L). **Source:** DING HU DIAO ZHANG *Lindera chunii* (root). **Ref:** 4224.

**20408 Strychnistenolide 6-O-acetate B**

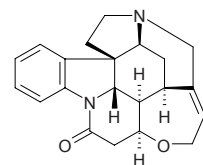
$C_{17}H_{20}O_5$ (304.35). **Pharm:** Anti-HIV-1 inactive (HIV-1 IN inhibitor, IC₅₀ > 100μmol/L, positive control Suramin, IC₅₀ = 2.4μmol/L). **Source:** DING HU DIAO ZHANG *Lindera chunii* (root). **Ref:** 4224.

**20409 Strychnilactone**

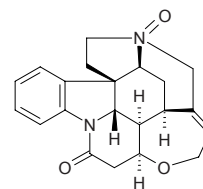
$C_{17}H_{24}O_6$ (324.38). Colorless rods (CHCl₃-MeOH), mp 181~182°C, $[\alpha]_D^{20} = -267.6^\circ$ ($c = 0.2$, MeOH). **Source:** WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*] (root: yield = 0.00059%). **Ref:** 3041.

**20410 Strychnine**

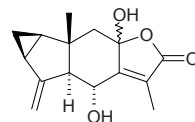
(-)-Strychnine; Strychnidin-10-one [57-24-9] $C_{21}H_{22}N_2O_2$ (334.42). Colorless cubes (chloroform-ether), mp 286~288°C, bp 270°C/5mmHg, $[\alpha]_D^{18} = -104.3^\circ$ ($c = 0.254$, ethanol), $[\alpha]_D^{25} = -139^\circ$ ($c = 0.4$, chloroform), soluble in chloroform, slightly soluble in ethanol, methanol, benzene, ether, very slightly soluble in peridine^[5507]. **Pharm:** Stimulant; LD₅₀ (mus, orl) = 5.0mg/kg, (mus, orl, nitrate) = 3.0mg/kg, (mus, sc, nitrate) = 0.83mg/kg, (mus, im, nitrate) = 0.63mg/kg, (mus, ip, nitrate) = 1.46mg/kg, (mus, iv, nitrate) = 0.5mg/kg, (rat, orl, nitrate) = 9.75mg/kg, (rat, im, nitrate) = 1.40mg/kg, (rat, ip, nitrate) = 1.67mg/kg, (rat, iv, nitrate) = 0.58mg/kg. **Source:** LI JI SAN CHU MAI MA QIAN *Strychnos triplinervia*, LV SONG GUO *Strychnos ignatii* (discovered by P. J. Pelletier and J. B. Caventou from seed of the plant in 1818)^[5507], MA QIAN ZI *Strychnos nux-vomica* (dried ripe seed: mean content = 3.67%)^[5508], MAO ZHU MA QIAN *Strychnos nitida*. **Ref:** 4, 542, 576, 658, 5501, 5507, 5508.

**20411 Strychnine N-oxide**

$C_{21}H_{22}N_2O_3$ (350.42). **Source:** MA QIAN ZI *Strychnos nux-vomica*. **Ref:** 542.

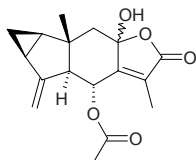
**20412 Strychnistenolide**

$C_{13}H_{18}O_4$ (262.31). Colorless needles (*n*-hexane-EtOAc), mp 185~186°C, $[\alpha]_D^{20} = +36.3^\circ$ ($c = 0.3$, MeOH). **Source:** WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*] (root: yield = 0.014%). **Ref:** 3041.

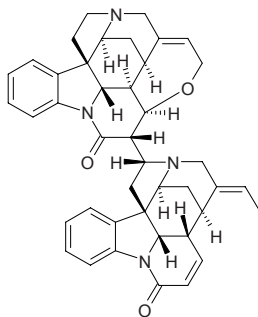


20413 Strychnistenolide 6-O-acetate

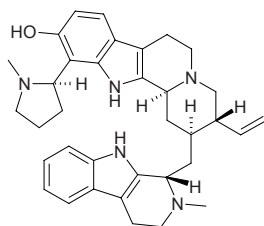
$C_{17}H_{20}O_5$ (304.35). Colorless amorphous powder (*n*-hexane–EtOAc). Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*] (root; yield = 0.0035%). Ref: 3041.

**20414 Strychnogucine C**

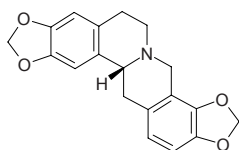
$C_{42}H_{42}N_4O_3$ (650.83). White-yellowish amorphous powder. Pharm: Antimalarial (antiplasmodial). Source: ZHONG FEI MA QIAN *Strychnos icaja*. Ref: 2018.

**20415 Strychnopentamine**

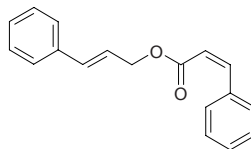
$C_{35}H_{43}N_5O$ (549.77). Pharm: Antiplasmodial (chloroquine-sensitive line: $IC_{50} = (117 \pm 33) \text{ nmol/L}$, $IC_{90} = 443 \text{ nmol/L}$, control Quinine, $IC_{50} = (269 \pm 6) \text{ nmol/L}$, $IC_{90} = 1910 \text{ nmol/L}$; chloroquine-resistant line: $IC_{50} = (145 \pm 20) \text{ nmol/L}$, $IC_{90} = 2982 \text{ nmol/L}$, Quinine, $IC_{50} = (413 \pm 11) \text{ nmol/L}$, $IC_{90} = 1720 \text{ nmol/L}$). Source: DONG FEI MA QIAN *Strychnos usambarensis* (leaf). Ref: 4925.

**20416 Stylopine**

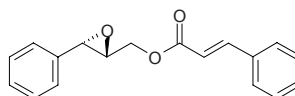
$C_{19}H_{17}NO_4$ (323.35). mp (–) 204°C; (±) 222–223°C. Source: BAI QU CAI *Chelidonium majus*, HE QING HUA *Hylomecon japonica*, JU HUA HUANG LIAN *Corydalis pallida*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *Yanhusuo*]. Ref: 6.

**20417 Styrcin**

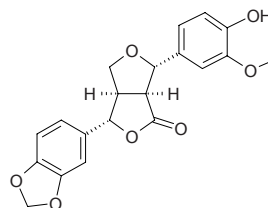
Cinnamoyl cinnamate $C_{18}H_{16}O_2$ (264.33). Source: AN XI XIANG *Styrax benzoin*, LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], SU HE XIANG *Liquidambar orientalis*. Ref: 660.

**20418 Styrcin epoxide**

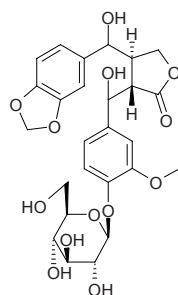
$C_{18}H_{16}O_3$ (280.33). Source: LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*]. Ref: 660.

**20419 Styrcin**

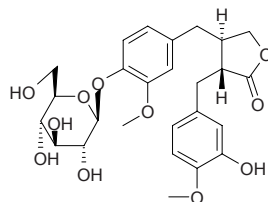
$C_{20}H_{18}O_7$ (370.36). Pharm: Antineoplastic. Source: YAO YONG AN XI XIANG *Styrax officinalis*. Ref: 658.

**20420 Styrcin japonoside A**

7,7'-Dihydroxyburshehnerin 4- β -D-glucoside $C_{26}H_{30}O_{13}$ (550.52). Colorless crystals, mp 156.8–156.9°C (dec), $[\alpha]_D^{25} = +0.25^\circ$ ($c = 0.5$, MeOH). Source: RI BEN AN XI XIANG JING PI *Styrax japonica*. Ref: 2546.

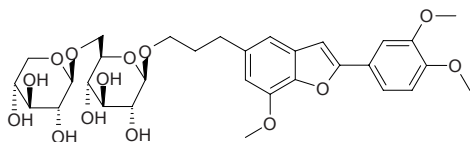
**20421 Styrcin japonoside B**

$C_{26}H_{32}O_{11}$ (520.54). Colorless crystals, mp 84–86°C (dec), $[\alpha]_D^{25} = -5.09^\circ$ ($c = 0.3$, MeOH). Pharm: Matrix metalloproteinase-1 (MMP-1) inhibitor; prevents UV-induced changes in MMP-1 expression. Source: RI BEN AN XI XIANG JING PI *Styrax japonica*. Ref: 2546.

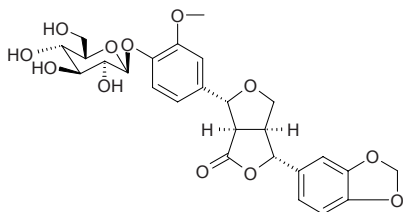


20422 Styxalignolide A

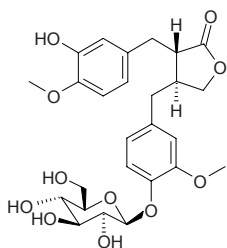
5-(3''-Hydroxypropyl)-7-methoxy-2-(3',4'-dimethoxyphenyl)-benzofuran 3''-*O*-(β -*D*-xylopyranoside-(1 \rightarrow 6)- β -*D*-glucopyranoside) C₃₁H₄₀O₁₄ (636.66). White amorphous powder, $[\alpha]_D^{22} = -53.7^\circ$ ($c = 0.8$, MeOH). **Pharm:** Anticomplement activity (IC₅₀ = 123 μ mol/L, ligand only inactive, control Rosmarinic acid, IC₅₀ = 182 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica*. **Ref:** 4096.

**20423 Styxalignolide B**

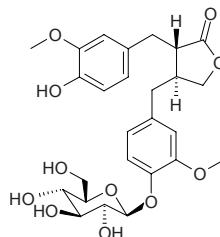
2 α -(4'-Hydroxy-3'-methoxyphenyl)-6 α -(3'',4''-methylenedioxyphenyl)-8-oxo-3,7-dioxabicyclo[3.3.0]octane 4'-*O*-(β -*D*-glucopyranoside) C₂₆H₂₈O₁₂ (532.51). Brown plates (MeOH), mp 111~113°C, $[\alpha]_D^{23} = -96.8^\circ$ ($c = 0.31$, MeOH). **Pharm:** Antioxidant inactive (*in vitro*, DPPH radical scavenger, IC₅₀ > 500 μ mol/L; control Vitamin E, IC₅₀ = 20.1 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.00017%dw). **Ref:** 4787.

**20424 Styxalignolide C**

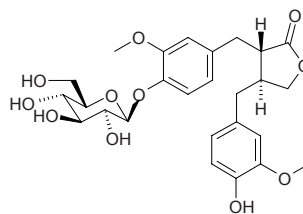
(2*S*,3*S*)-2 α -(3''-Hydroxy-4''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) C₂₆H₃₂O₁₁ (520.54). Colorless plates (MeOH), mp 106~108°C, $[\alpha]_D^{23} = -8.7^\circ$ ($c = 0.23$, MeOH). **Pharm:** Antioxidant (*in vitro*, DPPH radical scavenger, IC₅₀ = 380 μ mol/L; control Vitamin E, IC₅₀ = 20.1 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.0058%dw). **Ref:** 4787.

**20425 Styxalignolide D**

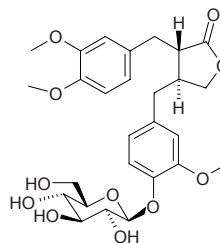
(2*S*,3*S*)-2 α -(4''-Hydroxy-3''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) C₂₆H₃₂O₁₁ (520.54). Colorless plates (MeOH), mp 100~102°C, $[\alpha]_D^{23} = -10.0^\circ$ ($c = 0.28$, MeOH). **Pharm:** Antioxidant (*in vitro*, DPPH radical scavenger, IC₅₀ = 278 μ mol/L; control Vitamin E, IC₅₀ = 20.1 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.0028%dw). **Ref:** 4787.

**20426 Styxalignolide E**

(2*S*,3*S*)-2 α -(4''-Hydroxy-3''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) C₂₆H₃₂O₁₁ (520.54). Colorless plates (MeOH), mp 102~104°C, $[\alpha]_D^{23} = -10.4^\circ$ ($c = 0.23$, MeOH). **Pharm:** Antioxidant (*in vitro*, DPPH radical scavenger, IC₅₀ = 194 μ mol/L; control Vitamin E, IC₅₀ = 20.1 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.0021%dw). **Ref:** 4787.

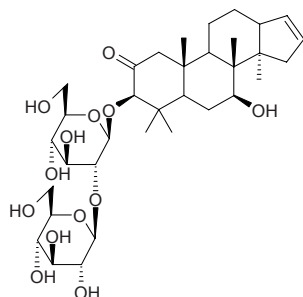
**20427 Styxalignolide F**

(2*S*,3*S*)-2 α -(3'',4''-Dimethoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) C₂₇H₃₄O₁₁ (534.57). Colorless plates (MeOH), mp 128~130°C, $[\alpha]_D^{23} = -24.8^\circ$ ($c = 0.25$, MeOH). **Pharm:** Antioxidant inactive (*in vitro*, DPPH radical scavenger, IC₅₀ > 500 μ mol/L; control Vitamin E, IC₅₀ = 20.1 μ mol/L). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.0089%dw). **Ref:** 4787.

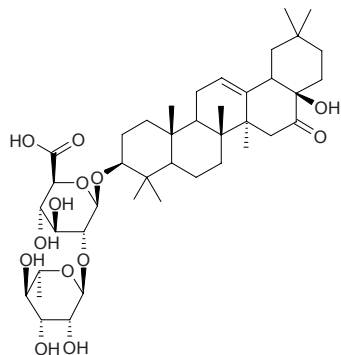


20428 Styraxoside A

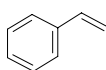
3 β ,7 β -Dihydroxy-4 α -4 β ,8 β ,10 β ,14 α -pentamethyl-5 α -gon-16-en-2-one
3-*O*-[β -D-glucopyranoside-(1 \rightarrow 2)- β -D-glucopyranoside] C₃₄H₅₄O₁₃ (670.80).
White amorphous powder, $[\alpha]_D^{26} = -11.0^\circ$ ($c = 0.1$, MeOH). **Pharm:** Anticomplement activity ($IC_{50} > 200\mu\text{mol/L}$, inactive, control Rosmarinic acid, $IC_{50} = 182\mu\text{mol/L}$). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica*. **Ref:** 4096.

**20429 Styraxoside B**

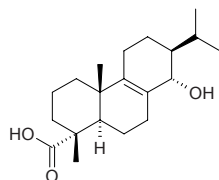
3 β ,17 β -Dihydroxy-28-norolean-12-en-16-one
3-*O*-[α -L-rhamopyranoside-(1 \rightarrow 2)- β -D-glucuronopyranoside] C₄₁H₆₄O₁₃
(764.96). White amorphous powder, $[\alpha]_D^{26} = -43.7^\circ$ ($c = 0.9$, MeOH). **Pharm:** Anticomplement activity ($IC_{50} = 65\mu\text{mol/L}$, ligand only inactive, control Rosmarinic acid, $IC_{50} = 182\mu\text{mol/L}$). **Source:** RI BEN AN XI XIANG JING PI *Styrax japonica*. **Ref:** 4096.

**20430 Styrene**

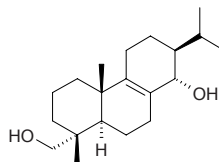
Phenylethylene [100-42-5] C₈H₈ (104.15). mp -55°C , bp 145.0~145.8 $^\circ\text{C}$.
Source: AN XI XIANG *Styrax benzoin*. **Ref:** 6.

**20431 Suaveolic acid**

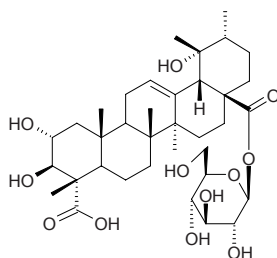
C₂₀H₃₂O₃ (320.48). mp 198~201 $^\circ\text{C}$ (dec). **Source:** SHE BAI ZI *Hyptis suaveolens*. **Ref:** 6.

**20432 Suaveolol**

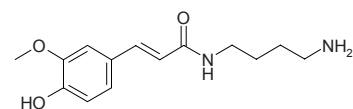
C₂₀H₃₄O₂ (306.49). mp 186~187 $^\circ\text{C}$. **Source:** SHE BAI ZI *Hyptis suaveolens*.
Ref: 6.

**20433 Suavissimoside R₁**

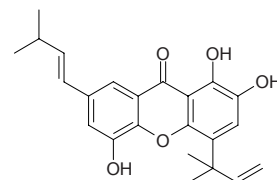
Suavissimoside F₁ C₃₆H₅₆O₁₂ (680.84). **Source:** DI YU *Sanguisorba officinalis*,
RI BEN LUO SHI *Trachelospermum asiaticum*, TIAN CHA *Rubus suavissimus*. **Ref:** 660, 1521.

**20434 Subaphylline**

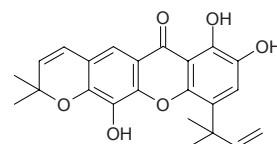
C₁₄H₂₀N₂O₃ (264.33). **Pharm:** Antiviral; antihypertensive. **Source:** FENG LI
Ananas comosus, PU TAO YOU *Citrus paradisi*, QIAN RI HONG
Gomphrena globosa, YU SHU SHU *Zea mays*, ZHI KE *Citrus aurantium*,
Salix sp. **Ref:** 658.

**20435 Subelliptenone B**

[155545-30-5] C₂₃H₂₄O₅ (380.44). **Source:** *Garcinia vilsersiana* (bark). **Ref:** 3902.

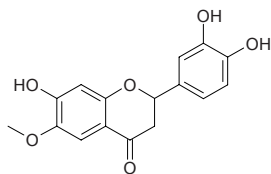
**20436 Subelliptenone H**

C₂₃H₂₂O₆ (394.43). **Source:** *Garcinia vilsersiana* (bark). **Ref:** 3902.

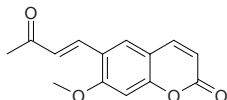


20437 Suberectin

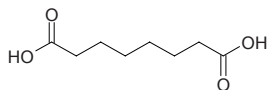
$C_{16}H_{14}O_6$ (302.29). Yellow-green powder, mp 164–165°C. Source: MI HUA DOU *Spatholobus suberectus*. Ref: 2241.

**20438 Suberenone**

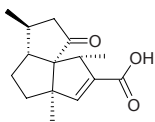
$C_{14}H_{12}O_4$ (244.25). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**20439 Suberic acid**

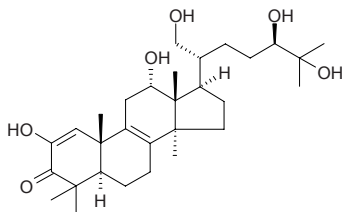
1,6-Hexanedicarboxylic acid [505-48-6] $C_8H_{14}O_4$ (174.20). mp 144°C. Source: BI MA ZI *Ricinus communis*, CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, MU JIN PI *Hibiscus syriacus*. Ref: 2, 6, 519.

**20440 Suberogorgin**

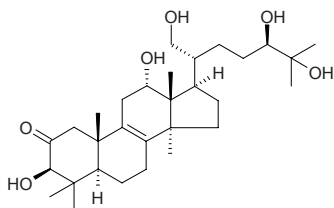
$C_{15}H_{20}O_3$ (248.32). Pharm: AChE inhibitor. Source: LIU SHAN HU *Gorgonia suberogorgia*. Ref: 658.

**20441 Sublateriol A**

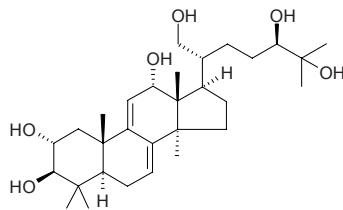
(24*R*)-2,12 α ,21,24,25-Pentahydroxylanosta-1,8-dien-3-one $C_{30}H_{48}O_6$ (504.71). Amorphous powder, $[\alpha]_D^{30} = +82.4^\circ$ ($c = 0.09$, $CHCl_3$). Source: ZHUAN HONG REN SAN *Naematoloma sublateritium*. Ref: 3526.

**20442 Sublateriol B**

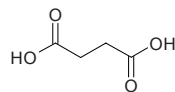
(24*R*)-3 β ,12 α ,21,24,25-Pentahydroxylanost-8-en-2-one $C_{30}H_{50}O_6$ (506.73). Amorphous powder, $[\alpha]_D^{32} = +89.7^\circ$ ($c = 0.2$, $CHCl_3$). Source: ZHUAN HONG REN SAN *Naematoloma sublateritium*. Ref: 3526.

**20443 Sublateriol C**

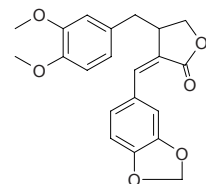
(24*R*)-Lanosta-7,9(11)-diene-2 α ,3 β ,12 α ,21,24,25-hexaol $C_{30}H_{50}O_6$ (506.73). Amorphous powder, $[\alpha]_D^{28} = +63.4^\circ$ ($c = 0.07$, $CHCl_3$). Source: ZHUAN HONG REN SAN *Naematoloma sublateritium*. Ref: 3526.

**20444 Succinic acid**

1,2-Ethanedicarboxylic acid [110-15-6] $C_4H_6O_4$ (118.09). mp 150°C, 185–189°C, bp 235°C. Pharm: Analgesic (hot plate method); antibacterial (*Staphylococcus aureus*, *Coccus catarrhal*, *Bacillus pyocyaneus*, *Bacillus proteus*, *B. Typhosus* and *Bacillus dysenteriae*, EC = 2mg/mL); antiulcerative (rat, gastric ulcer induced by pylorus ligation, 50mg/kg, ip or orl); antidote (mus, cobra-poisoning); CNS depressant (mus, rat, gpg, rbt, cat and dog, ip, anti-convulsion); Antipyretic; sedative; used in treatment of tympanitis, onychia lateralis, viral herpes, burn infection, suppurative amygdalitis and enteritis. Source: BAI BU *Stemona tuberosa*, BAI RUI CAO *Thesium chinense*, BAN BIAN LIAN *Lobelia chinensis* [Syn. *Lobelia radicans*], CU LIU GUO *Hippophae rhamnoides*, DANG GUI *Angelica sinensis*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], JIU JIE CHA *Sarcandra glabra* [Syn. *Chloranthus glaber*], JU YUAN *Citrus medica*, KU HAO *Conyza blinii*, KUAN YE XIANG PU *Typha latifolia*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], MING DANG SHEN *Changium smyrnioides*, MU XU *Medicago sativa*, MU ZEI *Equisetum hiemale*, PU HUANG *Typha angustata*, QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ROU CONG RONG *Cistanche deserticola*, SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: mean content of 2 origins = 1.55%^[5508]), SHI GAN ZI *Pothos chinensis*, TIAN MA *Gastrodia elata*, TIAN QIAO MAI GEN *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)^[4769], YE GUAN MEN *Lespedeza cuneata*, YI ZHU QIAN MA *Urtica dioica*, YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: mean content of 2 origins = 1.58%^[5508]), ZI QI *Osmunda japonica*, occurs in many plants. Ref: 2, 4, 411, 476, 502, 515, 529, 594, 604, 658, 660, 4769, 5501, 5508.

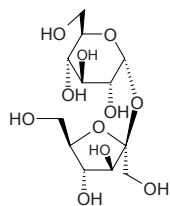
**20445 Suchilactone**

$C_{21}H_{20}O_6$ (368.39). Source: DA JIN NIU CAO *Polygala chinensis* [Syn. *Polygala glomerata*]. Ref: 6.

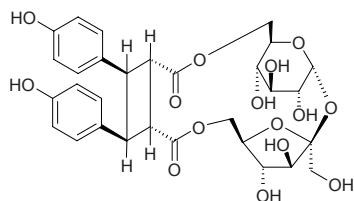


20446 Sucrose

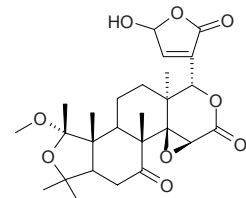
D-(+)-Sucrose [57-50-1] C₁₂H₂₂O₁₁ (342.30). mp 184–185°C. Source: AN ZI BEI MU *Fritillaria unibracteata*, CHE QIAN *Plantago asiatica*, CHUAN XU DUAN *Dipsacus asperoides*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DA QING YE *Isatis indigotica*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], HUANG QI *Astragalus membranaceus*, HUANG QIN *Scutellaria baicalensis*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], LU SHAN SHI WEI *Pyrrosia shearerii*, MENG GU HUANG QI *Astragalus mongholicus*, QIANG HUO *Notopterygium incisum*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN FAN GEN *Symplocos caudata*, SHI WEI *Pyrrosia lingua*, TANG QI *Acer saccharum*, TIAN CAI *Beta vulgaris*, TIAN MA *Gastrodia elata*, XI YANG SHEN *Panax quinquefolium*, YAO YONG GAN ZHE *Saccharum officinarum*, YAO YONG PU GONG YING *Taraxacum officinale*, occurs in many plants. Ref: 2, 660, 2535.

**20447 6,6'-Sucrose ester of (1a,2a,3β,4β)-3,4-bis(4-hydroxyphenyl)-1,2-cyclobutanedicarboxylic acid**

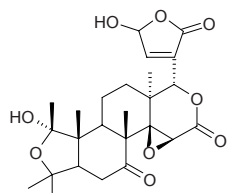
C₃₀H₃₄O₁₅ (634.60). White amorphous powder, [α]_D = +37.1° (*c* = 0.65, MeOH). Pharm: Antihistamine (inhibits histamine release, rat mast cell, induced by antigen-antibody reaction, IC₅₀ = 41.2 μg/mL, control Indomethacin, IC₅₀ = 89.5 μg/mL); PGE₂ production inhibitor inactive (30 μg/mL, InRt = 1%). Source: XIAO HUA GUI ZHEN *Bidens parviflora*. Ref: 3364.

**20448 Sudachinoid A**

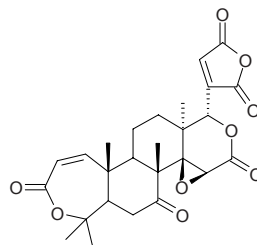
C₂₆H₃₄O₉ (490.56). Colorless oil, [α]_D²⁵ = +51.1° (*c* = 0.6, MeOH). Source: SU DA QI GAN JU *Citrus sudachii* (seed). Ref: 3532.

**20449 Sudachinoid B**

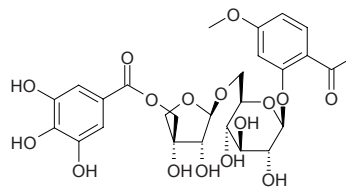
C₂₅H₃₂O₉ (476.53). Colorless oil, [α]_D²⁵ = +18.5° (*c* = 0.7, MeOH). Source: SU DA QI GAN JU *Citrus sudachii* (seed). Ref: 3532.

**20450 Sudachinoid C**

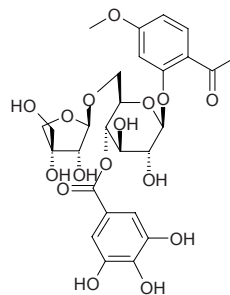
C₂₆H₂₈O₉ (484.51). Colorless oil, [α]_D²⁵ = -31.7° (*c* = 0.4, MeOH). Source: SU DA QI GAN JU *Citrus sudachii* (seed). Ref: 3532.

**20451 Suffruticoside A**

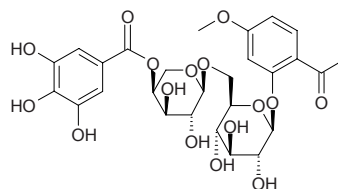
[145898-94-8] C₂₇H₃₂O₁₆ (612.54). White powder, [α]_D = -57.8° (methanol). Pharm: Antioxidant (stronger than vitamin E). Source: MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. Ref: 985.

**20452 Suffruticoside B**

[145898-95-9] C₂₇H₃₂O₁₆ (612.54). White powder, [α]_D = -32.7° (methanol). Pharm: Antioxidant (stronger than vitamin E). Source: MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. Ref: 985.

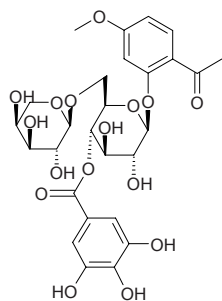
**20453 Suffruticoside C**

[145898-96-0] C₂₇H₃₂O₁₆ (612.54). White powder, [α]_D = -8.8° (methanol). Pharm: Antioxidant (stronger than vitamin E). Source: MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. Ref: 985.

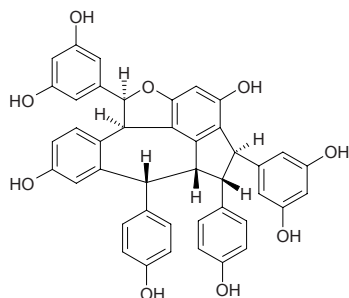


20454 Suffruticoside D

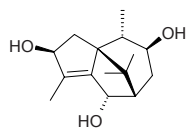
[145898-97-1] C₂₇H₃₂O₁₆ (612.54). White powder, $[\alpha]_D = -5.3^\circ$ (methanol).
Pharm: Antioxidant (stronger than vitamin E). **Source:** MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. **Ref:** 985.

**20455 Suffruticosol A**

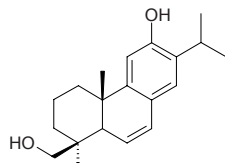
C₄₂H₃₂O₉ (680.72). **Source:** MU DAN PI *Paeonia moutan* [Syn. *Paeonia suffruticosa*]. **Ref:** 2234.

**20456 Sugetriol**

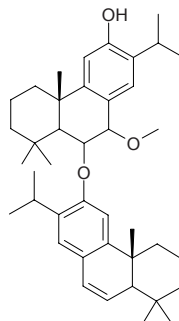
C₁₅H₂₄O₃ (252.36). **Source:** XIANG FU *Cyperus rotundus*. **Ref:** 660.

**20457 Sugikurojin A**

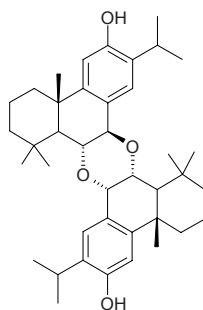
C₂₀H₂₈O₂ (300.44). Colorless solid, $[\alpha]_D^{25} = +32.8^\circ$ ($c = 0.39$, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). **Ref:** 4268.

**20458 Sugikurojin B**

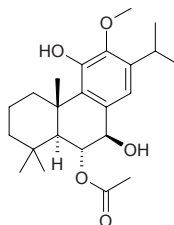
C₄₁H₅₈O₃ (598.92). Colorless solid, $[\alpha]_D^{25} = +148.2^\circ$ ($c = 1.57$, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). **Ref:** 4268.

**20459 Sugikurojin C**

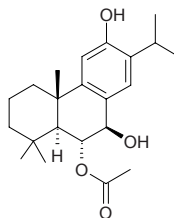
C₄₀H₅₆O₄ (600.89). Colorless solid, $[\alpha]_D^{20} = -35.9^\circ$ ($c = 0.62$, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (black heartwood). **Ref:** 4268.

**20460 Sugikurojin D**

6 α -Acetoxy-7 β ,11-dihydroxy-12-methoxy-8,11,13-abietatriene C₂₃H₃₄O₅ (390.52). Colorless solid, $[\alpha]_D^{25} = +45.5^\circ$ ($c = 1.2$, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (bark: yield = 0.0009%). **Ref:** 1710.

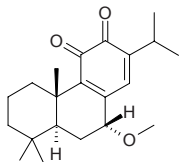
**20461 Sugikurojin E**

6 α -Acetoxy-7 β ,12-dihydroxy-8,11,13-abietatriene C₂₂H₃₂O₄ (360.50). Colorless solid, $[\alpha]_D^{25} = +30.0^\circ$ ($c = 1.2$, CHCl₃). **Source:** RI BEN LIU SHAN *Cryptomeria japonica* (bark: yield = 0.0004%). **Ref:** 1710.

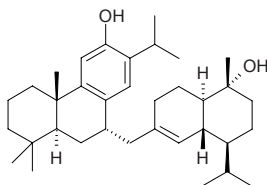


20462 Sugikurojin F

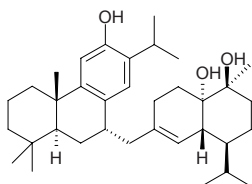
7 α -Methoxy-8,13-abietadien-11,12-dione C₂₁H₃₀O₃ (330.47). Colorless solid, [α]_D²⁵ = -43.9° (*c* = 0.4, CHCl₃). Source: RI BEN LIU SHAN *Cryptomeria japonica* (bark: yield = 0.00095%). Ref: 1710.

**20463 Sugikurojin G**

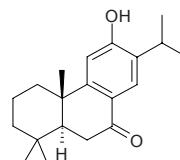
C₃₅H₅₄O₂ (506.82). Colorless solid, [α]_D²⁵ = -5.2° (*c* = 1.5, CHCl₃). Pharm: Cytotoxic (HL-60, IC₅₀ = 35.4 μ mol/L; HCT15, IC₅₀ = 100 μ mol/L). Source: RI BEN LIU SHAN *Cryptomeria japonica* (bark: yield = 0.00085%). Ref: 1710.

**20464 Sugikurojin H**

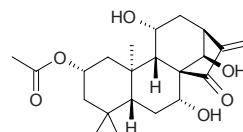
C₃₅H₅₄O₃ (522.82). Colorless solid, [α]_D²⁵ = -6.1° (*c* = 0.2, CHCl₃). Source: RI BEN LIU SHAN *Cryptomeria japonica* (bark: yield = 0.00075%). Ref: 1710.

**20465 Sugiol**

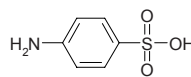
[511-05-7] C₂₀H₂₈O₂ (300.44). [α]_D²⁵ = +28.3° (*c* = 2.0, pyridine); mp 289–291°C (*n*-hexane–EtOAc), [α]_D²⁵ = +24.8° (*c* = 0.44, EtOH); mp 292–294°C, [α]_D²⁵ = +26°, mp (+) 298–299°C (dec); mp 281.3°C, [α]_D²² = -5.0° (*c* = 0.5, EtOH). Pharm: Cytotoxic (EBV-EA inhibitor TPA-induced, mol ratio/TPA = 1000, InRt = 100%)^[5352]; cytotoxic inactive (KB oral epidermoid carcinoma, ED₅₀ > 10 μ g/mL, Hep3B hepatoma cells, ED₅₀ > 10 μ g/mL, HeLa, ED₅₀ > 10 μ g/mL, Colon205, ED₅₀ > 10 μ g/mL)^[4253]; antiproliferative (*in vitro*, MTT assay, CEM, IC₅₀ = 10.3 μ mol/L, control Doxorubicin, IC₅₀ = 0.036 μ mol/L, HeLa, IC₅₀ = 7.7 μ mol/L, control Doxorubicin, IC₅₀ = 0.027 μ mol/L, HCT8, IC₅₀ = 75.0 μ mol/L, control Doxorubicin, IC₅₀ = 0.024 μ mol/L, MCF7, IC₅₀ > 83.3 μ mol/L, control Doxorubicin, IC₅₀ = 0.183 μ mol/L, B-16, IC₅₀ > 83.3 μ mol/L, control Doxorubicin, IC₅₀ = 0.056 μ mol/L)^[4940]; 12(S)-LOX inhibitor inactive (hmn Platelets, 100 μ g/mL, 12(S)-HETE Production inhibitor inactive)^[4980]. Source: CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*, DU SONG SHI *Juniperus rigida*, GAN XI SHU WEI CAO *Salvia przewalskii*, LU BIAN QING *Clerodendron cyrtophyllum*, RI BEN XIANG BAI JING PI *Thuja standishii*, SAN YE SHU WEI CAO *Salvia trijuga*, TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig), ZHU TAI SHU WEI CAO *Salvia candelabrum*, *Aegiphila lhotzkyana* (root), OU ZHOU CI BAI *Juniperus communis* (wood). Ref: 6, 182, 660, 4253, 4538, 5352, 5376, 5401, 4940, 4980.

**20466 Suimiyain A**

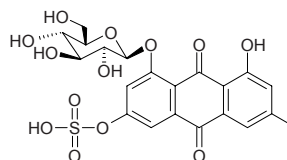
C₂₂H₃₂O₆ (392.50). mp 248–249°C. Source: DONG LING CAO *Rabdosia rubescens*. Ref: 4067.

**20467 Sulfanilic acid**

4-Aminobenzenesulfonic acid [121-57-3] C₆H₇NO₃S (173.19). Source: JI CAI *Capsella bursa-pastoris*. Ref: 6.

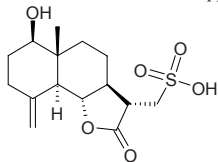
**20468 Sulfemodin-8-O- β -D-glucoside**

Emodin 8-O- β -D-glucopyranosyl-6-O-sulfate C₂₁H₂₀O₁₃S (512.45). Dark orange amorphous substance. Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.0011%dw). Ref: 4711.

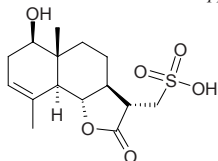


20469 13-Sulfo-dihydroreynosin

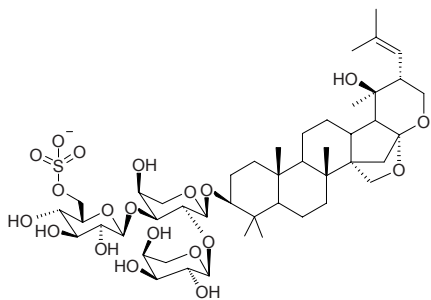
$C_{15}H_{22}O_6S$ (330.40). mp >300°C, $[\alpha]_D^{20} = +48.3^\circ$ ($c = 0.002$, MeOH). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 4485.

**20470 13-Sulfo-dihydrosantamarine**

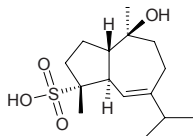
$C_{15}H_{22}O_6S$ (330.40). mp >300°C, $[\alpha]_D^{20} = +22.5^\circ$ ($c = 0.002$, MeOH). Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*]. Ref: 4485.

**20471 3-O-[6-O-Sulfonyl-β-D-glucopyranosyl-(1→3)]-[α-L-arabinopyranosyl-(1→2)]-α-L-arabinopyranosyl-pseudojubilogenin**

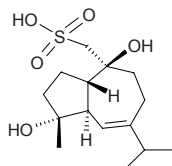
$C_{46}H_{73}O_{20}S^-$ (978.15). Source: JIA MA CHI XIAN *Bacopa monniera* (whole herb: yield = 0.0020%fw). Ref: 4664.

**20472 Sulfoorientalol A**

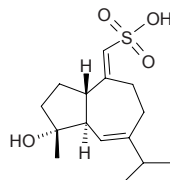
[151171-36-7] $C_{15}H_{26}O_4S$ (302.44). White powder, $[\alpha]_D^{22} = \pm 0^\circ$ ($c = 1.0$, methanol). Pharm: Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μmol/L, contractive rate = 52%). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.002%^[5501]). Ref: 987, 988, 5501.

**20473 Sulfoorientalol B**

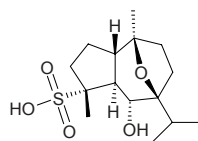
[151171-38-9] $C_{15}H_{26}O_5S$ (318.43). White powder, $[\alpha]_D^{22} = \pm 0^\circ$ ($c = 1.0$, methanol). Pharm: Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μmol/L, contractive rate = 51.3%). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.0008%^[5501]). Ref: 987, 988, 5501.

**20474 Sulfoorientalol C**

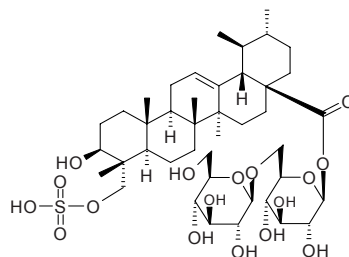
[150975-28-3] $C_{15}H_{24}O_4S$ (300.42). White powder, $[\alpha]_D^{22} = \pm 0^\circ$. Pharm: Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.0002%^[5501]). Ref: 987, 5501.

**20475 Sulfoorientalol D**

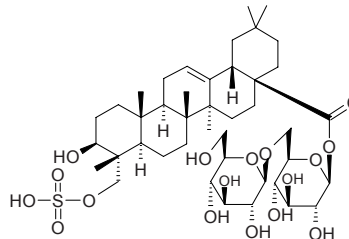
[151171-37-8] $C_{15}H_{26}O_5S$ (318.43). White powder, $[\alpha]_D^{22} = \pm 0.9^\circ$ ($c = 0.9$, methanol). Pharm: Bladder smooth muscle relaxant (gpg, *in vitro*, induced by carbacholine, 100 μmol/L, contractive rate 46.2%). Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (tuber: content = 0.0004%^[5501]). Ref: 987, 988, 5501.

**20476 Sulfopatrinoside I**

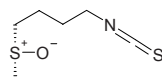
Sulfopatrinoside I $C_{42}H_{68}O_{17}S$ (877.06). Pharm: Anti-HIV. Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2, 660, 1843.

**20477 Sulfopatrinoside II**

Sulfopatrinoside II $C_{42}H_{68}O_{17}S$ (877.06). Pharm: Anti-HIV. Source: HUANG HUA BAI JIANG *Patrinia scabiosaefolia*. Ref: 2, 660, 1843.

**20478 Sulforathane**

[4478-93-7] $C_6H_{11}NOS_2$ (177.29). bp 130–135°C/0.03 mmHg, $[\alpha]_D = -79.3^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Cancer-preventing activity (animal trial, stronger). Source: MAO DU XING CAI *Lepidium draba*. Ref: 1521, 1582.

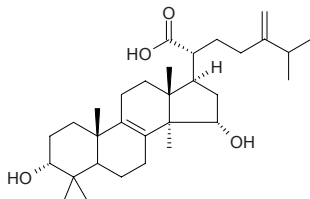


20479 Sulfur dioxide

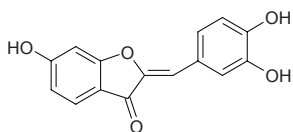
[7446-09-5] O₂S (64.06). Source: DA SUAN *Allium sativum*. Ref: 2.

**20480 3 α -Sulfurenic acid**

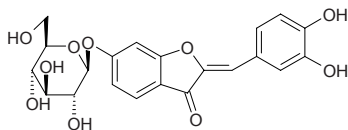
3 α ,15 α -Dihydroxy-24-methylene-lanost-8-en-21-oic acid C₃₁H₅₀O₄ (486.74). White amorphous powder, mp 252–254°C, mp 203–205°C, [α]_D²² = +26.7° (c = 0.04, CHCl₃:MeOH = 1:1). Source: ALI HONG *Fomes officinalis*. Ref: 6, 2566.

**20481 Sulfuretin**

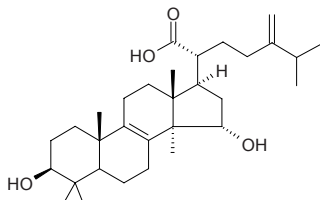
C₁₅H₁₀O₅ (270.24). Orange-yellow prisms (MeOH), mp 280–285°C (dec). Pharm: Iodine-induced thyronine deiodinase inhibitor (rat, microsome membrane of hepatic cells); cytotoxic (antioxidant assay)^[5038]; anti-rheumatoid arthritis (oral administration 30mg/kg, significantly decreased rheumatoid arthritis (RA) and C-reactive protein (CRP) factors in Freund's complete adjuvant)^[5460]. Source: HUANG LU *Cotinus coggygia*, QI ZI *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], *Cotinus* sp, XIAO YE HONG *GUANG SHU Knema globularia*. Ref: 6, 658, 2209, 5038, 5460.

**20482 Sulfuretin glucoside**

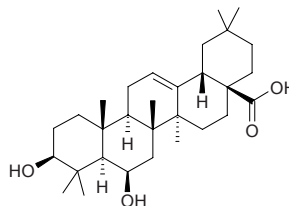
C₂₁H₂₀O₁₀ (432.39). mp 200°C (dec). Pharm: Cytotoxic (antioxidant assay). Source: HUANG LU *Cotinus coggygia*. Ref: 6, 5038.

**20483 3 β -Sulphurenic acid**

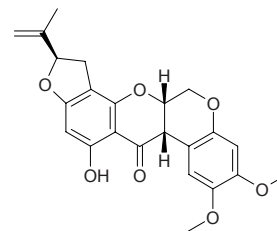
C₃₁H₅₀O₄ (486.74). Source: ALI HONG *Fomes officinalis*. Ref: 660.

**20484 Sumaresinolic acid**

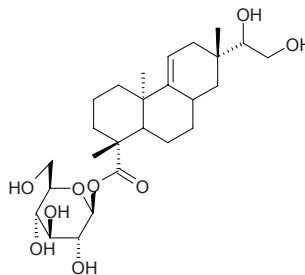
C₃₀H₄₈O₄ (472.71). mp 298–299°C. Source: AN XI XIANG *Styrax benzoin*. Ref: 6.

**20485 Sumatrol**

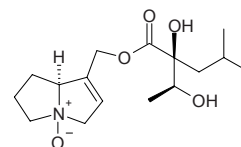
C₂₃H₂₂O₇ (410.43). Pharm: Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, IC₅₀ > 47 μmol/L; control Sulforaphane, IC₅₀ = 11 μmol/L)^[4718], pesticide. Source: DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.0093% dw)^[4718], MA LIU JIA YU TENG *Derris malaccensis*. Ref: 658, 4718.

**20486 Sumogaside**

[132210-61-8] C₂₆H₄₂O₉ (498.62). White crystals, mp 210–214°C. Pharm: IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1 μmol/L, 10 μmol/L and 100 μmol/L, InRt = 14.0%, 34.7% and 42.5%, respectively); TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1 μmol/L, 10 μmol/L and 100 μmol/L, InRt = 0.2%, 7.9% and 10.2%, respectively). Source: CHAO XIAN WU JIA *Acanthopanax koreanum* (root). Ref: 4346.

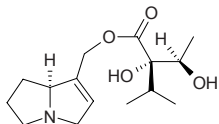
**20487 Supinidine N-oxide 2S-hydroxy-2S-(1S-hydroxyethyl)-4-methylpentanoyl ester**

C₁₆H₂₇NO₅ (313.40). Orange oil, [α]_D²⁵ = -4.3° (c = 0.1, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.

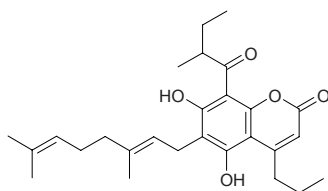


20488 Supinine

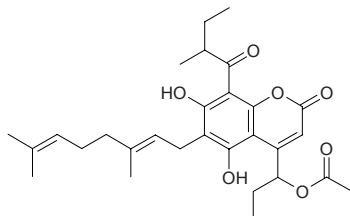
$C_{15}H_{25}NO_4$ (283.37). **Pharm:** Anticholinergic; teratogen (chromosome in plant cells); hepatotoxin. **Source:** DA MA YE ZE LAN *Eupatorium cannabinum*, DA WEI YAO *Heliotropium indicum*, DUO XU GONG *Eupatorium stoechadosmum*, WAN HUA ZE LAN *Eupatorium serotinum*, YANG XIN TIAN JIE CAI *Heliotropium supinum*. **Ref:** 658.

**20489 Surangin A**

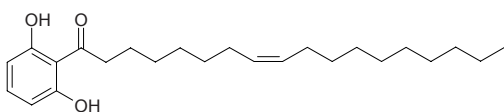
$C_{27}H_{36}O_5$ (440.58). Crystals (hexane), mp 83–85°C, $[\alpha]_D^{26} = -1.6^\circ$ ($c = 0.3$, chloroform). **Pharm:** Antibacterial (*Staphylococcus* sp., *in vitro*, 7.8 µg/mL). **Source:** CHANG YE MAN MI PING GUO *Mammea longifolia*. **Ref:** 661.

**20490 Surangin B**

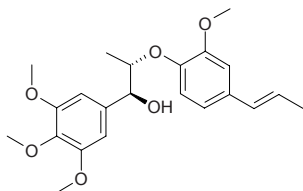
$C_{29}H_{38}O_7$ (498.62). Crystals (dichloroethane–hexane), mp 98–100°C, $[\alpha]_D^{24} = -30^\circ$. **Pharm:** Against neurovaccine; pesticide (larvae of mosquito, mustard beetles and houseflies, 0.05 µg/mL); LD₅₀ (mus, ip) = 50 mg/kg. **Source:** CHANG YE MAN MI PING GUO *Mammea longifolia*, MEI ZHOU MAN MI PING GUO *Mammea americana*. **Ref:** 661.

**20491 Suranone**

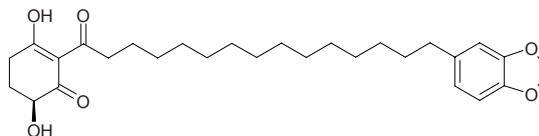
1-(2,6-Dihydroxyphenyl)-octadec-8-en-1-one $C_{24}H_{38}O_3$ (374.57). Yellowish oil, $[\alpha]_D^{25} = \pm 0^\circ$ ($c = 0.15$, $CHCl_3$). **Source:** *Peperomia sui*. **Ref:** 3401.

**20492 Surinamensin**

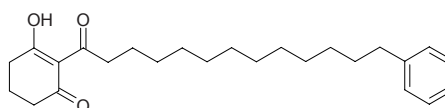
$C_{22}H_{28}O_6$ (388.47). **Pharm:** Schistosomacide. **Source:** SU LI NAN ROU DOU KOU *Virola surinamensis* [Syn. *Myristica surinamensis*] (leaf). **Ref:** 658, 5099.

**20493 Surinone A**

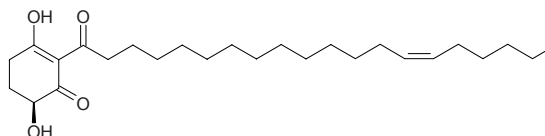
(-)-2-(15-Benzo[1,3]dioxol-5-yl-pentadecanoyl)-3,6-dihydroxy-cyclohex-2-enone $C_{28}H_{40}O_6$ (472.63). Yellowish oil, $[\alpha]_D^{25} = -15.8^\circ$ ($c = 0.070$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell line, 50 µmol/L, cell growth InRt = 31%; NUGC-3 cell line, 50 µmol/L, cell growth InRt = 38%). **Source:** *Peperomia sui*. **Ref:** 3401.

**20494 Surinone B**

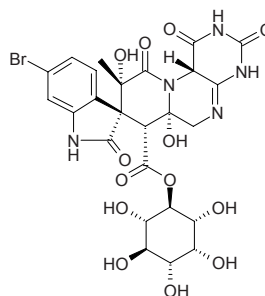
3-Hydroxy-2-(13-phenyltridecanoyl)-cyclohex-2-enone $C_{25}H_{36}O_3$ (384.56). Yellowish oil. **Source:** *Peperomia sui*. **Ref:** 3401.

**20495 Surinone C**

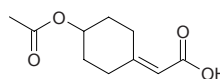
(Z)-(-)-3,6-Dihydroxy-2-icos-14-enoyl-cyclohex-2-enone $C_{26}H_{44}O_4$ (420.64). Colorless gum, $[\alpha]_D^{25} = -29.1^\circ$ ($c = 0.075$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell line, 50 µmol/L, cell growth InRt = 39%; NUGC-3 cell line, 50 µmol/L, cell growth InRt = 27%). **Source:** *Peperomia sui*. **Ref:** 3401.

**20496 Surugatoxin**

Surugatoxin $C_{25}H_{26}BrN_5O_{13}$ (684.42). **Pharm:** Blocks self-discipline nerve; cytotoxic; mydriatic (mus, MED = 0.02 µg/kg); nicotine antagonist. **Source:** NI DONG FENG LUO *Babylonia lutosa*. **Ref:** 658.

**20497 Suspenolic acid**

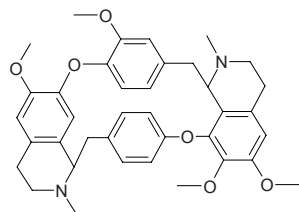
$C_{10}H_{14}O_4$ (198.22). Amorphous powder, mp 74–76°C, $[\alpha]_D^{20} = +4.7^\circ$ ($c = 0.1010$, $CHCl_3$). **Source:** LIAN QIAO *Forsythia suspensa*. **Ref:** 8.



20498 Sutchuensine

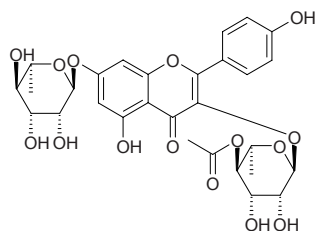
C₃₈H₄₂N₂O₆ (622.77). Colorless powder, $[\alpha]_D^{27} = -110^\circ$ ($c = 0.13$, EtOH).

Source: LUN HUAN TENG *Cyclea racemosa*. **Ref:** 274.

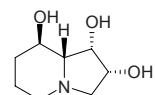
**20499 Sutchuenside A**

Kaempferol 3-*α*-L-(4-*O*-acetyl)rhamnopyranoside-7-*α*-L-rhamnopyranoside

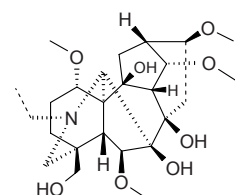
C₂₉H₃₁O₁₅ (620.57). Pale yellow amorphous powder, $[\alpha]_D = -170^\circ$ ($c = 0.1$, MeOH). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, IC₅₀ = 405 μmol/L, positive control Adriamycin, IC₅₀ = 46 μmol/L; DDDP inhibitor, IC₅₀ = 23 μmol/L, positive control Adriamycin, IC₅₀ = 6 μmol/L; RnaseH inhibitor, IC₅₀ > 500 μmol/L, positive control Illimaquinone, IC₅₀ = 50 μmol/L). **Source:** GUAN ZHONG *Dryopteris crassirhizoma*. **Ref:** 3522.

**20500 Swainsonine**

C₈H₁₅NO₃ (173.22). **Pharm:** *α*-Mannosidase inhibitor^[2617]; toxin (livestock)^[2617]; antineoplastic (potent activity)^[2617]. **Source:** DAN HUANG KU MA DOU *Swainsonia luteola*, HUI BAI KU MA DOU *Swainsonia canescens*, SHAN YANG DOU YE KU MA DOU *Swainsonia galegifolia*. **Ref:** 658, 2617.

**20501 Swatinine**

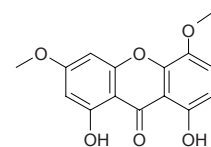
C₂₅H₄₁NO₈ (483.61). Amorphous powder, $[\alpha]_D^{30} = +12.5^\circ$ ($c = 2$, CHCl₃). **Pharm:** Anti-inflammatory (modified assay of Berridge, 100 μg/mL, InRt = 22.82%); tyrosinase inhibitor inactive (control Kojic acid, IC₅₀ = (16.67 ± 0.52) μmol/L, *L*-Mimosine, IC₅₀ = (3.68 ± 0.02) μmol/L); antioxidant (DPPH scavenger, 1 μmol/L, ScRt = 54.1%; control 3-*t*-Butyl-4-hydroxyanisole, 1 μmol/L, ScRt = 92.5%). **Source:** *Aconitum leave* (aerial parts). **Ref:** 5271.

**20502 Swerchirin**

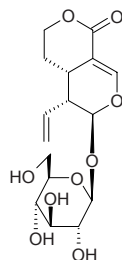
C₁₅H₁₂O₆ (288.26). Yellow acicular crystals, mp 194~195°C. **Pharm:**

Antihepatotoxin (animal model); monoamine oxidase A inhibitor (*in vitro*).

Source: BAO E ZHANG YA CAI *Swertia calycina*, RU BAI LONG DAN *Gentiana lactea*, QI RUI TA ZHANG YA CAI *Swertia chirata*. **Ref:** 634, 658.

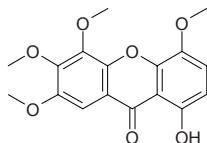
**20503 Sweroside**

[14215-86-2] C₁₆H₂₂O₉ (358.35). $[\alpha]_D^{27} = -190.6^\circ$ ($c = 0.83$, MeOH). **Pharm:** Hepatoprotective (inhibits SGPT, SGOT, ALP (reduces the raised activity of SGPT, SGOT, ALP due to acute liver injury induced by GAIN)). **Source:** BAO E ZHANG YA CAI *Swertia calycina* (whole herb: content = 0.1543%)^[5508], CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHUAN XU DUAN *Dipsacus asperoides*, CU HUA ZHANG YA CAI *Swertia fasciculata* (whole herb: content = 3.540%)^[5508], CU JING QIN JIAO *Gentiana crassicaulis* (root: mean content = 0.04%)^[5534], DA ZI ZHANG YA CAI *Swertia macrosperma* (whole herb: content = 0.3242%)^[5508], DANG YAO *Swertia chinensis* (the compound was isolated from the plant by H.Inouye et al. in 1966)^[5505], HONG ZHI ZHANG YA CAI *Swertia erythrosticta* (whole herb: content = 3.138%)^[5508], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.019%dw)^[4723], LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), LONG DAN *Gentiana scabra*, MAO ZHANG YA CAI *Swertia pubescens* (whole herb: content = 1.705%)^[5508], QING YE DAN *Swertia mileensis* (whole herb: content = 0.696%)^[5501], RI BEN SHUANG HU DIE *Tripterosperrum japonicum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], WU SHI REN DONG *Lonicera quinquelocularis* (root), XI NAN ZHANG YA CAI *Swertia cincta* (whole herb: content = 0.4531%)^[5508], XIA YE ZHANG YA CAI *Swertia angustifolia*, XIAN MAI ZHANG YA CAI *Swertia nervosa* (whole herb: content = 0.7165%)^[5508], ZHANG YA CAI *Swertia pseudochinensis* (whole herb: content = 0.2965%)^[5508], ZI HONG ZHANG YA CAI *Swertia punicea* (whole herb: content = 1.179%)^[5508]. **Ref:** 2, 6, 220, 272, 660, 3533, 3926, 4527, 4723, 5501, 5505, 5508, 5534.

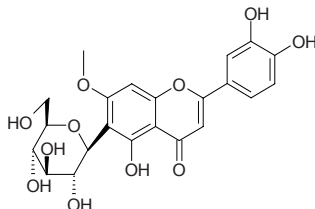


20504 Swertiadecoraxanthone

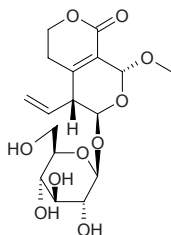
1-Hydroxy-4,5,6,7-tetramethoxy-9*H*-xanthen-9-one C₁₇H₁₆O₇ (332.31). Orange-yellow cuboid mass crystals, mp 163~165°C (acetone). Source: GUAN SHANG ZHANG YA CAI *Swertia decora*. Ref: 4598.

**20505 Swertiajaponin**

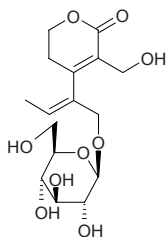
C₂₂H₂₂O₁₁ (462.41). mp 265°C (dec). Pharm: Hepatoprotective (rat, inhibits SGPT, reduces the raised SGPT due to acute liver injury induced by CCl₄). Source: DOU CHI CAO *Iris sanguinea*, QING YE DAN *Swertia mileensis*, RI BEN ZHANG YA CAI *Swertia japonica*, XI YE SHI *Achillea leptophylla*, XIAN ZHOU MAI MA TENG *Gnetum gnemon*, *Tragopogon* sp. Ref: 6, 658, 5501.

**20506 Swertiajaposide A**

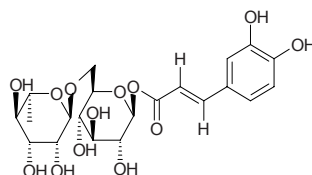
C₁₇H₂₄O₁₀ (388.37). Amorphous powder, [α]_D²⁵ = -121° (c = 0.061, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2528.

**20507 Swertiajaposide B**

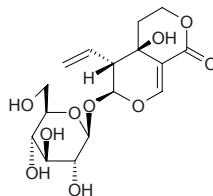
C₁₆H₂₄O₉ (360.36). Amorphous powder, [α]_D²⁵ = -25.6° (c = 0.117, MeOH). Source: RI BEN ZHANG YA CAI *Swertia japonica*. Ref: 2528.

**20508 Swertiamacroside**

trans-Caffeic acid-1-*O*-rutinose ester C₂₁H₂₈O₁₃ (488.45). Yellowish amorphous powder. Source: DA ZI ZHANG YA CAI *Swertia macrosperma*. Ref: 149.

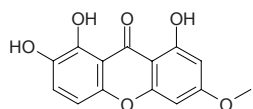
**20509 Swertiamarin**

[17388-39-5] C₁₆H₂₂O₁₀ (374.35). mp 103~104°C. Pharm: Analgesic; anticonvulsant (mus, ip, inhibits spontaneous movement and convulsion induced by corazol); anti-inflammatory (rat, swollen foot model caused by carrageenan); sedative. Source: BAO E ZHANG YA CAI *Swertia calycina* (whole herb: content = 0.0222%)^[5508], BAO JING ZHANG YA CAI *Swertia franchetiana* (whole herb: content = 1.08%)^[5508], CHUAN DONG ZHANG YA CAI *Swertia davidii* (whole herb: content = 1.70%)^[5508], CU HUA ZHANG YA CAI *Swertia fasciculata* (whole herb: content = 0.765%)^[5508], CU JING QIN JIAO *Gentiana crassicaulis* (root: mean content = 0.94%)^[5534], CU ZHUANG LONG DAN *Gentiana robusta* (root: content = 0.55%)^[5508], DA ZI ZHANG YA CAI *Swertia macrosperma* (whole herb: mean content = 0.08%)^[5508], DAN HUANG ZHANG YA CAI *Swertia punicea* var. *lutescens* (whole herb: content = 1.15%)^[5508], DANG YAO *Swertia chinensis* (the compound was isolated from the plant by T.Kubota et al. in 1961)^[5505], DIAN LONG DAN *Gentiana rigescens* (root: mean content of 8 origins = 0.06%)^[5508], DONG BEI LONG DAN *Gentiana manshurica* (root: mean content of 3 origins = 0.04%)^[5508], GUI ZHOU ZHANG YA CAI *Swertia kouitchensis* (whole herb: content = 4.08%)^[5508], HONG HUA LONG DAN *Gentiana rhodantha* (aerial parts: mean content of 2 origins = 0.03%)^[5508], HONG ZHI ZHANG YA CAI *Swertia erythrosticta* (whole herb: content = 0.113%)^[5508], LONG DAN *Gentiana scabra* (root: mean content collected in Jun. to Sep. = 0.157%)^[5508], MAO ZHANG YA CAI *Swertia pubescens* (whole herb: content = 0.095%)^[5508], QI RUI TA ZHANG YA CAI *Swertia chirata*, RI BEN ZHANG YA CAI *Swertia japonica*, TOU HUA LONG DAN *Gentiana cephalantha* (whole herb: content = 0.11%)^[5508], XI NAN ZHANG YA CAI *Swertia cincta* (whole herb: mean content = 0.05%)^[5508], XIE JING ZHANG YA CAI *Swertia angustifolia* (whole herb: content = 3.420%)^[5508], XIA YE ZHANG YA CAI *Swertia patens*, XIAN MAI ZHANG YA CAI *Swertia nervosa* (whole herb: content = 0.072%)^[5508], ZHANG YA CAI *Swertia pseudochinensis* (whole herb: mean content = 0.52%)^[5508], ZHE JIANG ZHANG YA CAI *Swertia hickinii* (whole herb: content = 7.67%)^[5508], ZI HONG ZHANG YA CAI *Swertia punicea* (whole herb: mean content = 1.85%)^[5508]. Ref: 6, 220, 272, 658, 5501, 5505, 5507, 5508, 5534.

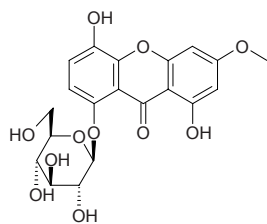


20510 Swertianin

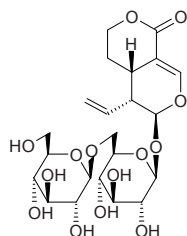
1,2,8-Trihydroxy-6-methoxyxanthone; C₁₄H₁₀O₆ (274.23). **Pharm:** Vasodilator (rat aortic preparations, pre-contracted by 3 μmol/L arterenol, pIC₅₀ = 4.95 ± 0.068; 20 μmol/L KCl, pIC₅₀ = 4.59 ± 0.069)^[5434]; mutagen (*Salmonella typhimurium*); **Source:** BA FA LI YA LONG DAN *Gentiana bavarica*, BAO E ZHANG YA CAI *Swertia calycina* (whole herb: content = 0.0315%)^[5508], CU HUA ZHANG YA CAI *Swertia fasciculata* (whole herb: content = 2.670%)^[5508], DA ZI ZHANG YA CAI *Swertia macrosperma* (whole herb: content = 0.1020%)^[5508], DAN HUANG ZHANG YA CAI *Swertia punicea* var. *lutescens* (whole herb: content = 0.6130%)^[5508], DUAN YE LONG DAN *Gentiana brachyphylla*, HONG ZHI ZHANG YA CAI *Swertia erythrosticta* (whole herb: content = 0.9507%)^[5508], KU HE LONG DAN *Gentiana kochiana*, RI BEN LONG DAN *Gentiana japonica*, XIA YE ZHANG YA CAI *Swertia angustifolia* (whole herb: content = trace)^[5508], XIAN MAI ZHANG YA CAI *Swertia nervosa* (whole herb: content = 0.0303%)^[5508], XUE LONG DAN *Gentiana nivalis*, ZHANG YA CAI *Swertia pseudochinensis* (whole herb: content = 0.0201%)^[5508], ZI HONG ZHANG YA CAI *Swertia punicea* (whole herb: content = 0.3990%)^[5508]. **Ref:** 658, 5434, 5508.

**20511 Swertianolin**

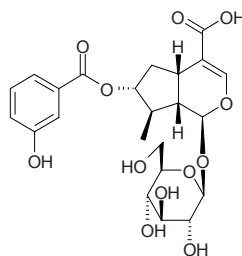
Bellidifolin 8-*O*-β-glucopyranoside C₂₀H₂₀O₁₁ (436.38). Yellowish powder, mp 227–229°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*); AChE inhibitor (MIC = 0.08 μg = 0.18 nmol; control Galanthamine MIC = 0.01 μg = 0.03 nmol, Physostigmine MIC = 0.005 μg = 0.002 nmol, Huperzine A MIC = 0.002 μg = 0.0008 nmol)^[5039]. **Source:** BAO E ZHANG YA CAI *Swertia calycina*, DE GUO LONG DAN *Gentiana germanica*, DUO ZHI LONG DAN *Gentiana ramosa*, RI BEN ZHANG YA CAI *Swertia japonica*, SHANG ZUO ZHOU ZHANG YA CAI *Swertia tosaensis*, SU GEN ZHANG YA CAI *Swertia perennis*, TIAN YE LONG DAN *Gentiana campestris*, ZI SE ZHANG YA CAI *Swertia purpurascens*. **Ref:** 634, 658, 5039.

**20512 Swertiapunimarin**

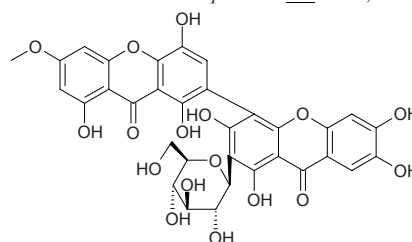
6'-*O*-β-D-Glucopyranosylsweroside C₂₂H₃₂O₁₄ (520.49). White powder, mp 95–97°C, [α]_D²⁶ = -169° (H₂O). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*, ZI HONG ZHANG YA CAI *Swertia punicea*. **Ref:** 272, 2573.

**20513 Swertiaside A**

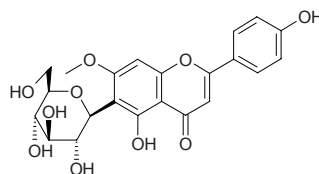
C₂₃H₂₈O₁₂ (496.47). **Source:** LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb). **Ref:** 4527.

**20514 Swertipunicoside**

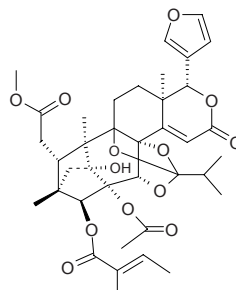
[137570-21-9] C₃₃H₂₆O₁₇ (694.55). Yellow powder, mp > 360°C. **Pharm:** HIV-1 reverse transcriptase inhibitor (EC₅₀ = 3 μg/mL). **Source:** ZI HONG ZHANG YA CAI *Swertia punicea*. **Ref:** 1055, 1076.

**20515 Swertisin**

[6991-10-2] C₂₂H₂₂O₁₀ (446.41). mp 248°C (dec). **Pharm:** Xanthinoxidase inhibitor (50 μg/mL, InRt = 24.9%); flu virus sialidase inhibitor (91 μg/mL, InRt = 7.5%); antihepatotoxin (rat, liver toxicosis induced by CCl₄ and GalN, 1.0 mg/mL); hepatic sialidase inhibitor (mus). **Source:** DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 2, 1632, 1675, 1676, 1677.

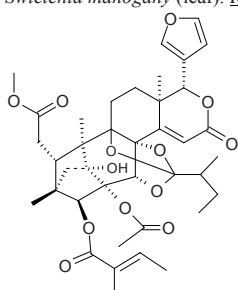
**20516 Swietephragmin A**

C₃₈H₄₆O₁₃ (710.78). White amorphous powder. **Source:** TAO HUA XIN MU *Swietenia mahogany* (leaf). **Ref:** 4420.

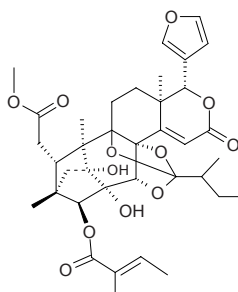


20517 Swietephragmin B

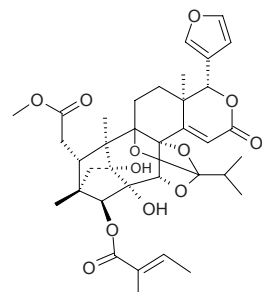
$C_{39}H_{48}O_{13}$ (724.81). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20518 Swietephragmin C**

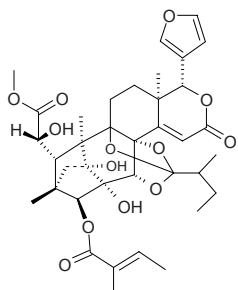
$C_{37}H_{46}O_{12}$ (682.77). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20519 Swietephragmin D**

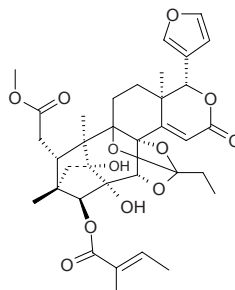
$C_{36}H_{44}O_{12}$ (668.74). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20520 Swietephragmin E**

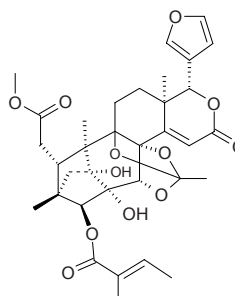
$C_{37}H_{46}O_{13}$ (698.77). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20521 Swietephragmin F**

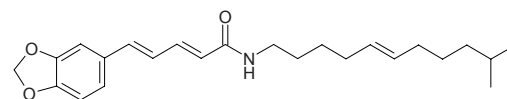
$C_{35}H_{42}O_{12}$ (654.72). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20522 Swietephragmin G**

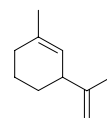
$C_{34}H_{40}O_{12}$ (640.69). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

**20523 Sylvatine**

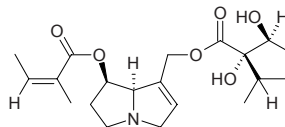
$C_{24}H_{33}NO_3$ (383.54). Source: BI BA *Piper longum*. Ref: 660.

**20524 Sylvestrene**

(*R*)-(+)-*m*-Mentha-6,8-diene [1461-27-4] $C_{10}H_{16}$ (136.24). Source: DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

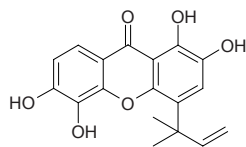
**20525 Symlandine**

$C_{20}H_{31}NO_6$ (381.47). Gum, $[\alpha]_D = +4.4^\circ$ ($c = 0.3$, $CHCl_3$). Source: XI MEN FEI CAO *Symphytum officinale* (root; yield = 0.00015%dw). Ref: 3039.

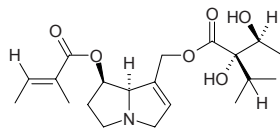


20526 Symphoxanthone

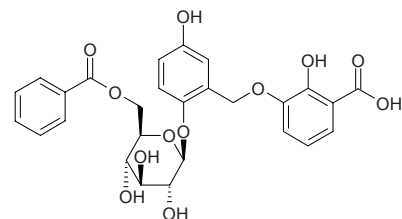
$C_{18}H_{16}O_6$ (328.32). Source: KA MAI LONG XIN FO NI A *Symphonia globulifera*, *Garcinia vilsersiana* (bark). Ref: 1521, 3902.

**20527 Symphytine**

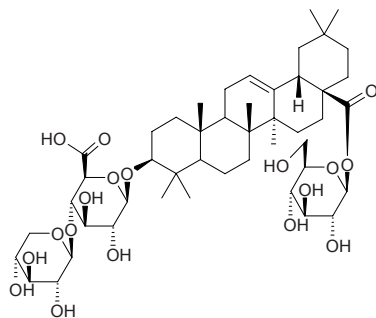
$C_{20}H_{31}NO_6$ (381.48). Pharm: Carcinogen (liver). Source: E GUO XI MEN FEI CAO *Symphytum x uplandicum*, DONG FANG XI MEN FEI CAO *Symphytum orientale*, XI MEN FEI CAO *Symphytum officinale* (root: yield = 0.00040%dw)^[3039]. Ref: 658, 3039.

**20528 Symplocoside**

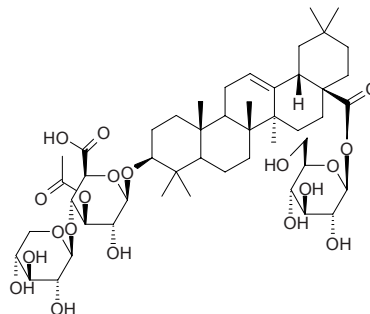
$C_{27}H_{26}O_{12}$ (542.50). White powder. Pharm: Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (122 \pm 0.02) \mu\text{mol/L}$, control Cysteine, $IC_{50} = (274 \pm 0.07) \mu\text{mol/L}$); thymidine phosphorylase inhibitor (*in vitro*, $IC_{50} = (190 \pm 1) \mu\text{mol/L}$, control 7-Deazaxanthine, $IC_{50} = (38.68 \pm 4.42) \mu\text{mol/L}$); urease inhibitor ($IC_{50} = (54.13 \pm 0.71) \mu\text{mol/L}$, control Thiourea, $IC_{50} = (21.01 \pm 0.93) \mu\text{mol/L}$). Source: ZHU ZI SHU *Symplocos racemosa*. Ref: 4093.

**20529 Symplocos glomerata saponin 1**

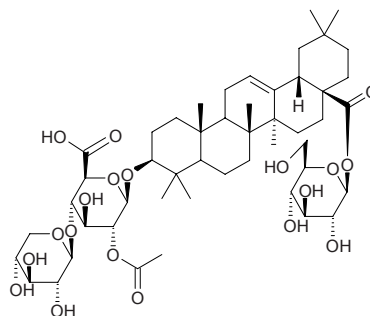
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid; Salsoside C $C_{47}H_{74}O_{18}$ (927.10). Source: TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex), TU DANG GUI *Aralia cordata*, *Salsola micranthera*. Ref: 3783.

**20530 Symplocos glomerata saponin 2**

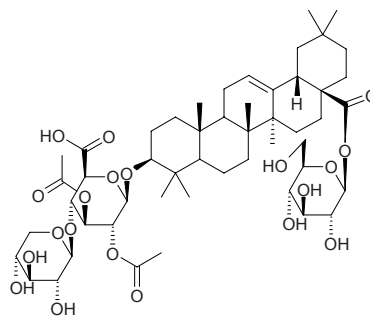
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid; 3'-*O*-Acetylsalsoside C $C_{49}H_{76}O_{19}$ (969.14). White powder, $[\alpha]_D^{21} = +9^\circ$ ($c = 0.5$, MeOH). Source: TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). Ref: 3783.

**20531 Symplocos glomerata saponin 3**

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)-[2-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid; 2'-*O*-Acetylsalsoside C $C_{49}H_{76}O_{19}$ (969.14). White powder, $[\alpha]_D^{21} = 0^\circ$ ($c = 0.46$, MeOH). Source: TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). Ref: 3783.

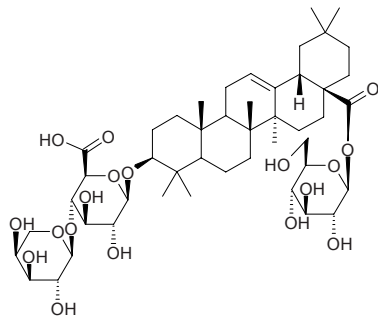
**20532 Symplocos glomerata saponin 4**

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)-[2,3-*O*-diacetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid; 2',3'-*O*-Diacetylsalsoside C $C_{51}H_{78}O_{20}$ (1011.18). White powder, $[\alpha]_D^{21} = +1.5^\circ$ ($c = 0.2$, MeOH). Source: TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). Ref: 3783.

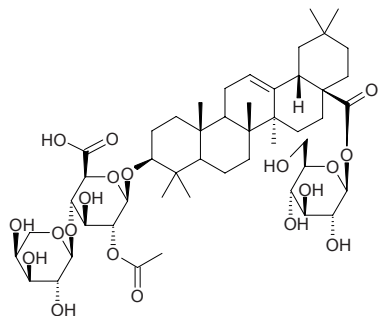


20533 *Symplocos glomerata* saponin 5

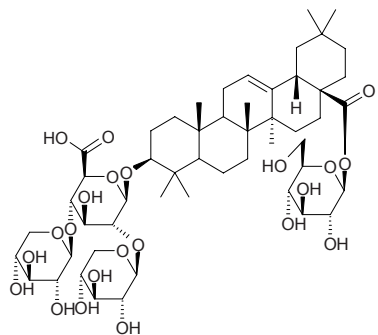
3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid C₄₇H₇₄O₁₈ (927.10). White powder, $[\alpha]_D^{21} = +4.7^\circ$ ($c = 0.38$, MeOH). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

**20534 *Symplocos glomerata* saponin 6**

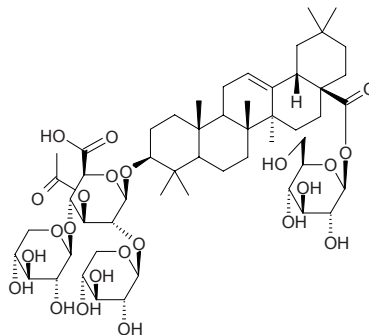
3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 4)]-2-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid C₄₉H₇₆O₁₉ (969.14). White powder, $[\alpha]_D^{21} = +8^\circ$ ($c = 0.55$, MeOH). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

**20535 *Symplocos glomerata* saponin 7**

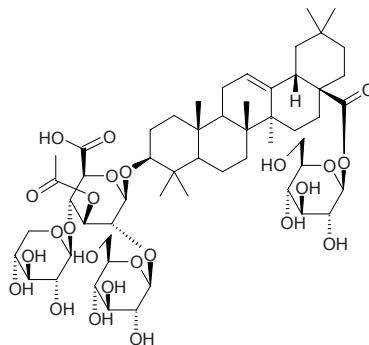
3-*O*-{[β -*D*-Xylopyranosyl(1 \rightarrow 2)]-[β -*D*-xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl}-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid; Salsolside E C₅₂H₈₂O₂₂ (1059.22). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

**20536 *Symplocos glomerata* saponin 8**

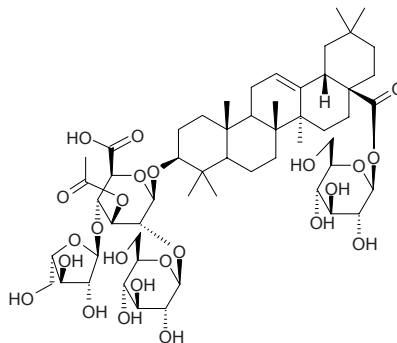
3-*O*-{[β -*D*-Xylopyranosyl-(1 \rightarrow 2)]-[β -*D*-xylopyranosyl-(1 \rightarrow 4)]-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid C₅₄H₈₄O₂₃ (1101.26). White powder, $[\alpha]_D^{21} = +1.4^\circ$ ($c = 0.416$, pyridine). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

**20537 *Symplocos glomerata* saponin 9**

3-*O*-{[β -*D*-Glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-xylopyranosyl-(1 \rightarrow 4)]-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid C₅₅H₈₆O₂₄ (1131.28). White powder, $[\alpha]_D^{21} = +7.7^\circ$ ($c = 0.21$, pyridine). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

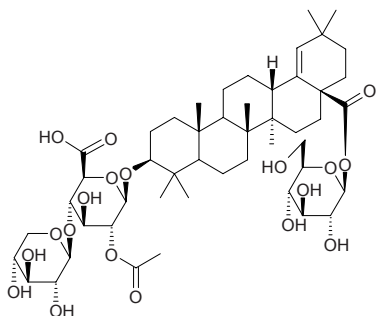
**20538 *Symplocos glomerata* saponin 10**

3-*O*-{[β -*D*-Glucopyranosyl(1 \rightarrow 2)][α -*L*-arabinofuranosyl-(1 \rightarrow 4)]-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid C₅₅H₈₆O₂₄ (1131.28). White powder, $[\alpha]_D^{21} = -10.8^\circ$ ($c = 0.61$, MeOH). **Source:** TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). **Ref:** 3783.

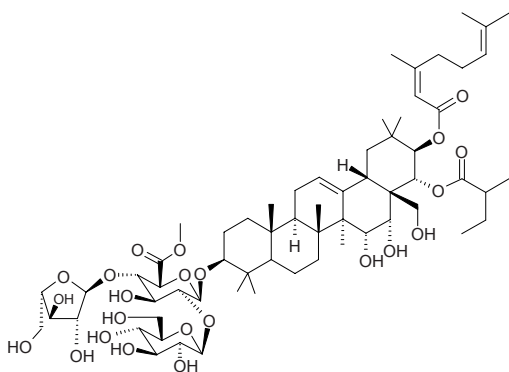


20539 Symplocos glomerata saponin 11

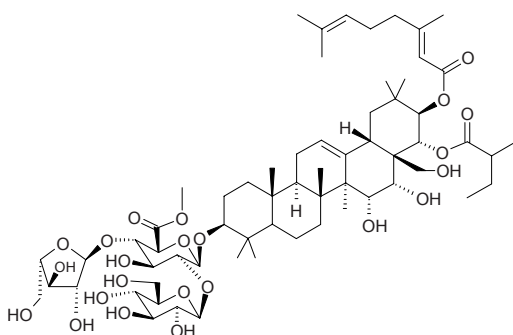
3 β -O-[β -D-Xylopyranosyl(1 \rightarrow 4)-[2-O-acetyl]- β -D-glucuronopyranosyl]-28-O-[β -D-glucopyranosyl]-morolic acid C₄₉H₇₆O₁₉ (969.14). [α]_D²¹ = -8.1° (*c* = 0.28, MeOH). Source: TUAN HUA SHAN FAN *Symplocos glomerata* (stem cortex). Ref: 3783.

**20540 Symplocoside A**

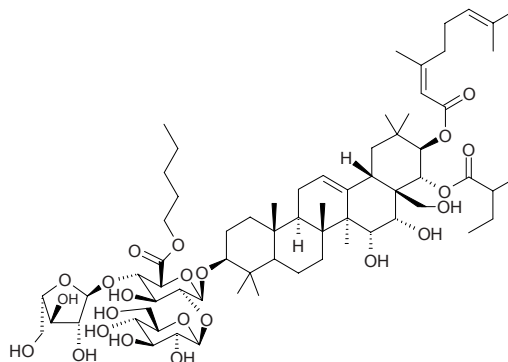
C₆₃H₁₀₀O₂₃ (1225.49). White amorphous powder, mp 189–191°C, [α]_D¹⁸ = -29° (*c* = 0.99, MeOH). Pharm: Cytotoxic (*in vitro*, KB, IC₅₀ = 1.72 μg/mL; HCT8, IC₅₀ = 4.31 μg/mL; A549, IC₅₀ = 0.67 μg/mL; normal hmn embryo lung fibroblasts HELF, IC₅₀ = 4.62 μg/mL). Source: HUA SHAN FAN *Symplocos chinensis* (root). Ref: 4785.

**20541 Symplocoside B**

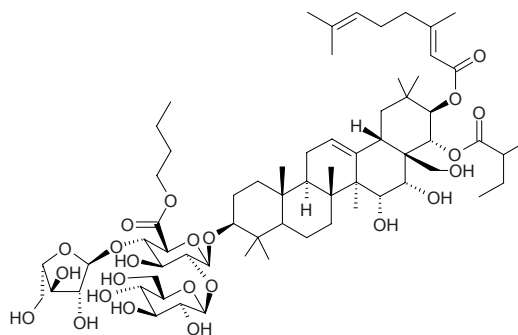
C₆₃H₁₀₀O₂₃ (1225.49). White amorphous powder, mp 189–191°C, [α]_D¹⁸ = -23° (*c* = 1.02, MeOH). Source: HUA SHAN FAN *Symplocos chinensis* (root). Ref: 4785.

**20542 Symplocoside C**

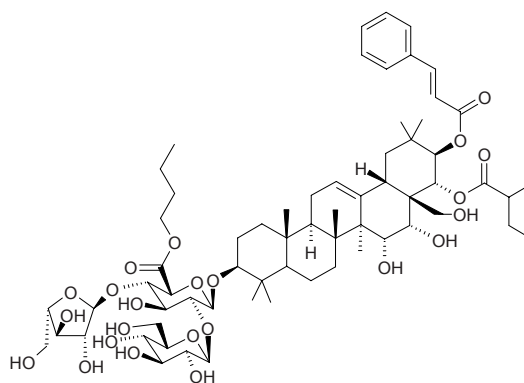
C₆₆H₁₀₆O₂₃ (1267.57). White amorphous powder, mp²¹ 7–219°C, [α]_D²⁴ = -23.3° (*c* = 1.03, MeOH). Pharm: Cytotoxic (*in vitro*, HCT8, IC₅₀ = 2.86 μg/mL; BGC823, IC₅₀ = 7.29 μg/mL). Source: HUA SHAN FAN *Symplocos chinensis* (root). Ref: 4785.

**20543 Symplocoside D**

C₆₆H₁₀₆O₂₃ (1267.57). White amorphous powder, mp 213–215°C, [α]_D²⁴ = -15.8° (*c* = 0.70, MeOH). Source: HUA SHAN FAN *Symplocos chinensis* (root). Ref: 4785.

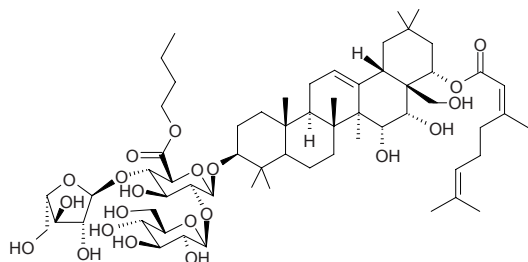
**20544 Symplocoside E**

C₆₅H₉₈O₂₃ (1247.49). White amorphous powder, mp 211–213°C, [α]_D²⁴ = -21.4° (*c* = 1.02, MeOH). Source: HUA SHAN FAN *Symplocos chinensis* (root). Ref: 4785.

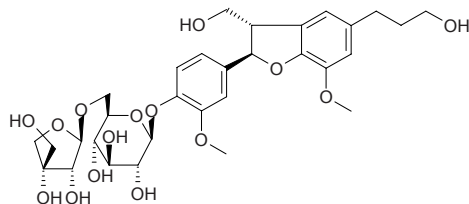


20545 Symplocoside F

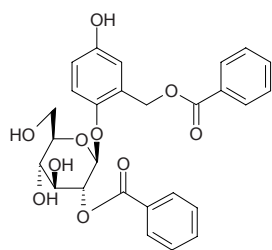
$C_{61}H_{98}O_{21}$ (1167.45). White amorphous powder, mp 234~236°C, $[\alpha]_D^{24} = -24.3^\circ$ ($c = 0.70$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HCT8, $IC_{50} = 4.04\mu\text{g/mL}$).
Source: HUA SHAN FAN *Symplocos chinensis* (root). **Ref:** 4785.

**20546 Symploglignanoside A**

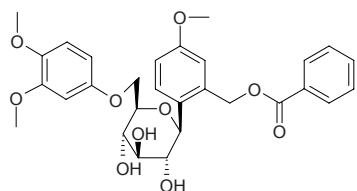
$C_{31}H_{42}O_{15}$ (654.67). White powder, mp 130~132°C, $[\alpha]_D^{25} = -24.8^\circ$ ($c = 0.05$, MeOH). **Source:** SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535.

**20547 Symploside**

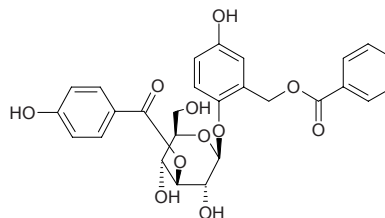
$C_{27}H_{26}O_{10}$ (510.50). White powder. **Pharm:** Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (722\pm 0.03)\mu\text{mol/L}$, control Cysteine, $IC_{50} = (274\pm 0.07)\mu\text{mol/L}$); thymidine phosphorylase inhibitor (*in vitro*, $IC_{50} = (208\pm 1)\mu\text{mol/L}$, control 7-Deazaxanthine, $IC_{50} = (38.68\pm 4.42)\mu\text{mol/L}$). **Source:** ZHU ZI SHU *Symplocos racemosa*. **Ref:** 4093.

**20548 Symploveroside**

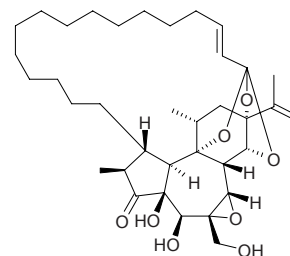
$C_{29}H_{32}O_{10}$ (540.57). Colorless amorphous solid. **Pharm:** Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (909\pm 0.1)\mu\text{mol/L}$, control Cysteine, $IC_{50} = (274\pm 0.07)\mu\text{mol/L}$); thymidine phosphorylase inhibitor (*in vitro*, $IC_{50} = (489\pm 4)\mu\text{mol/L}$, control 7-Deazaxanthine, $IC_{50} = (38.68\pm 4.42)\mu\text{mol/L}$). **Source:** ZHU ZI SHU *Symplocos racemosa*. **Ref:** 4093.

**20549 Symponoside**

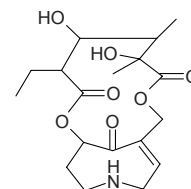
$C_{27}H_{26}O_{11}$ (526.50). White powder. **Pharm:** Phosphodiesterase I inhibitor (*in vitro*, $IC_{50} = (698\pm 0.06)\mu\text{mol/L}$, control Cysteine, $IC_{50} = (274\pm 0.07)\mu\text{mol/L}$); thymidine phosphorylase inhibitor (*in vitro*, $IC_{50} = (196\pm 2)\mu\text{mol/L}$, control 7-Deazaxanthine, $IC_{50} = (38.68\pm 4.42)\mu\text{mol/L}$). **Source:** ZHU ZI SHU *Symplocos racemosa*. **Ref:** 4093.

**20550 Synaptolepis factor K₁**

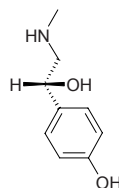
$C_{36}H_{54}O_8$ (614.83). **Pharm:** Irritant. **Source:** family Thymelaeaceae spp. **Ref:** 658.

**20551 Syneilesine**

$C_{18}H_{27}NO_7$ (369.42). **Source:** TU ER SAN *Syneilesis palmata* (in 1974, the compound was isolated from the plant by M.Hikichi et al.). **Ref:** 5505.

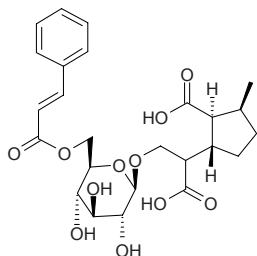
**20552 Synephrine**

Oxedrine [94-07-5] $C_9H_{13}NO_2$ (167.21). mp 151~152°C, 184~185°C, 118~119°C (dec). **Source:** GAN PI *Citrus chachiensis* (dried ripe pericarp: content = 0.023%)^[5508], JU PI *Citrus reticulata* (dried ripe pericarp: content = 0.28%)^[5508], content = 0.058%^[5501], WU ZHU YU *Evodia rutaecarpa* (fruit: content = 0.19%)^[5501], ZHI SHI *Citrus aurantium* (young fruit: content scope = 0.24%~1.45%)^[5501]. **Ref:** 4, 5501, 5508.

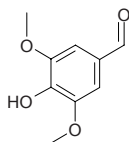


20553 Syringafghanoside

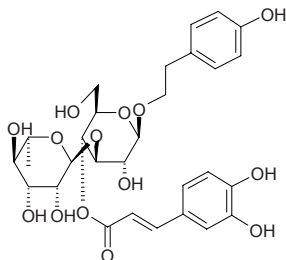
$C_{25}H_{32}O_{11}$ (508.53). Colorless amorphous powder, $[\alpha]_D^{28} = -28^\circ$ ($c = 1.01$, MeOH). Source: A FU HAN DING XIANG *Syringa afghanica*. Ref: 2006.

**20554 Syringaldehyde**

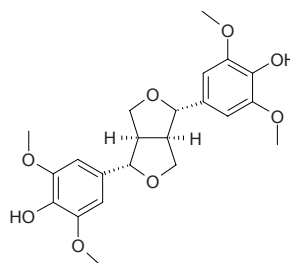
[134-96-3] $C_9H_{10}O_4$ (182.18). Pharm: Cytotoxic (P_{388} , $ED_{50} > 50\mu\text{g/mL}$, control Mithramycin, $ED_{50} = 0.58\mu\text{g/mL}$; A549, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.073\mu\text{g/mL}$; HT29, $ED_{50} > 50\mu\text{g/mL}$, Mithramycin, $ED_{50} = 0.076\mu\text{g/mL}$)^[5421]; cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]. Source: DANG SHEN *Codonopsis pilosula*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), ZHONG GUO XIU QIU *Hydrangea chinensis* (root), MO ZHI JIAO GU CUI *Casearia membranacea* (stem). Ref: 2, 2529, 3069, 4488, 5421.

**20555 Syringalide 3'- α -L-rhamnopyranoside**

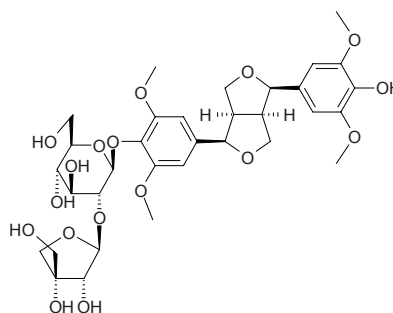
$C_{29}H_{36}O_{14}$ (608.60). Source: ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. Ref: 2448.

**20556 (+)-Syringaresinol**

Lirioresinol B [21453-69-0] $C_{22}H_{26}O_8$ (418.45). Colorless prismatic crystals (CH_3OH), mp 169–171°C; $[\alpha]_D^{24} = -7.47^\circ$ ($c = 0.3$, CHCl_3). Pharm: Cytotoxic (Meth-A sarcoma cell line, $ED_{50} > 10\mu\text{g/mL}$, LLC cell line, $ED_{50} > 10\mu\text{g/mL}$); aldose reductase inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, $100\mu\text{mol/L}$ InRt = 13%, control Epalrestat, $IC_{50} = 0.072\mu\text{mol/L}$)^[4530]; NO production inhibitor ($IC_{50} = 53.5\mu\text{mol/L}$)^[4526]; DPPH scavenger ($IC_{50} = 19.5\mu\text{mol/L}$)^[4526]; antioxidant (superoxide anion scavenger ($100\mu\text{mol/L}$, InRt = $(55.1 \pm 0.3)\%$, positive control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14)\mu\text{mol/L}$)^[4514]; bone resorption inhibitor (bones were cultured with PTH $200\mu\text{mol/L}$, ^{45}Ca release = $(23.3 \pm 1.9)\%$, $p < 0.001$, control ^{45}Ca release = $(15.4 \pm 1.3)\%$)^[4921]. Source: HAI JIN BI XIE *Dioscorea spongiosa* (rhizome), HOU PO *Magnolia officinalis*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.00031%dw)^[4799], KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], LANG DU *Stellera chamaejasme*, LEI GONG TENG *Tripterygium wilfordii*, LIAO GE WANG GEN *Wikstroemia indica*, MAO CI JIN JI ER *Caragana tibetica* (stem), OU ZHOU SHUI QING GANG *Fagus sylvatica*, QING FENG TENG *Sinomenium acutum*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (aerial parts), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole herb), TAI WAN FU RONG *Hibiscus taiwanensis*, WU GENG WU JIA PI *Acanthopanax sessiliflorus*, *Populus* sp., *Wikstroemia* sp. Ref: 2, 660, 683, 658, 2529, 3510, 4514, 4526, 4530, 4676, 4799, 4921.

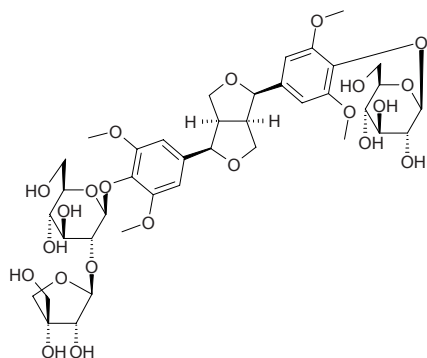
**20557 Syringaresinol-4-O- β -D-apiofuranosyl-(1 \rightarrow 2)- β -D-glucopyranoside**

[136997-64-3] $C_{33}H_{44}O_{17}$ (712.71). Source: HE HUAN PI *Albizzia julibrissin*. Ref: 660.



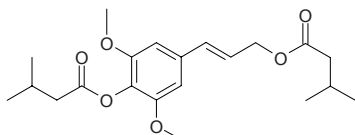
20558 Syringaresinol-4-O-β-D-apiofuranosyl-(1→2)-β-D-glucopyranosyl-4'-O-β-D-glucopyranoside

[136997-65-4] C₃₉H₅₄O₂₂ (874.85). Source: HE HUAN PI *Albizia julibrissin*. Ref: 660.



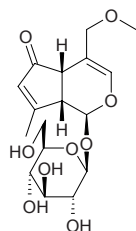
20559 Syringenin diisovalerate

Sinapyl alcohol diisovalerate [112561-77-0] C₂₁H₃₀O₆ (378.47). Crystals (hexane), mp 68–59°C. Source: *Artemisia assoana*. Ref: 1521.



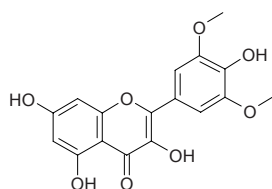
20560 Syringenone

[58546-53-5] C₁₇H₂₄O₉ (372.37). Amorphous. Source: OU DING XIANG *Syringa vulgaris*. Ref: 1521.



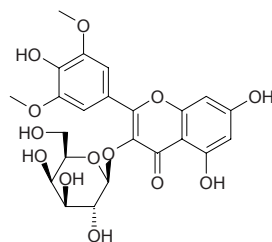
20561 Syringetin

C₁₇H₁₄O₈ (346.30). Source: BAI GUO YE *Ginkgo biloba*. Ref: 660.



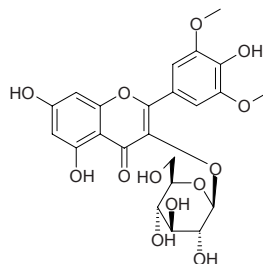
20562 Syringetin-3-O-β-D-galactopyranoside

C₂₃H₂₄O₁₃ (508.44). Source: TIAN CONG *Philydrum lanuginosum*. Ref: 6.



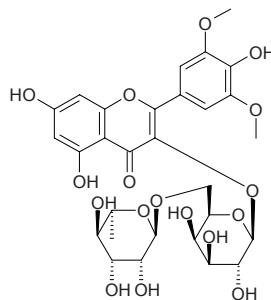
20563 Syringetin-3-O-β-D-glucoside

C₂₃H₂₄O₁₃ (508.44). Yellow powder. Source: LUO TUO CI *Alhagi pseudalhagi*. Ref: 498.



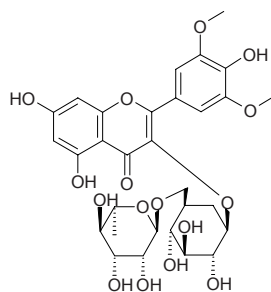
20564 Syringetin-3-O-robinobioside

Syringetin-3-O-α-L-rhamnopyranosyl-(1→6)-β-D-galactopyranoside C₂₉H₃₄O₁₇ (654.58). Amorphous yellow powder. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 1885.



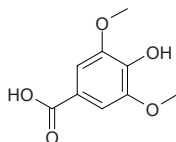
20565 Syringetin-3-rutinoside

C₃₀H₃₆O₁₆ (652.61). Source: BAI GUO YE *Ginkgo biloba*. Ref: 660.

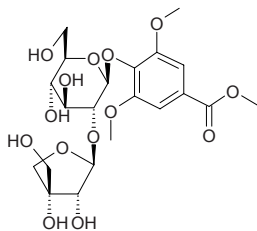


20566 Syringic acid

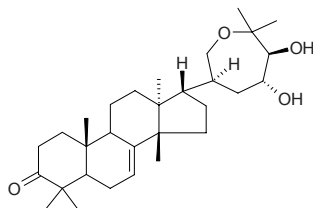
4-Hydroxy-3,5-dimethoxybenzoic acid [530-57-4] C₉H₁₀O₅ (198.18). mp 204–205°C. **Pharm:** Antioxidant (hydroxyl radical scavenger, IC₅₀ = 2.61 μmol/L, control EGCG, IC₅₀ = 0.43 μmol/L, superoxide anion radical scavenger, IC₅₀ = 3.46 μmol/L, control EGCG, IC₅₀ = 0.53 μmol/L)^[4499]; antibacterial; antifungal; local anesthetic; sedative; β-Hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (7.6±5.4)%^[4347]); NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 9.3%, 7.5%, 7.2%, 28%, respectively; control L-NMMA, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]. **Source:** BAI HUA YING SHAN HONG *Rhododendron mucronatum*, BAN LAN GEN *Isatis indigotica* (dried root: mean content of 5 origins = 0.00029%)^[5508], DA CHE QIAN *Plantago major*, DA YE JIN HUA CAO *Stenoloma chusanum*, HEI DA DOU *Glycine max*, HUI XIANG *Foeniculum vulgare*, HUI XIANG JING YE *Foeniculum vulgare*, JI XING ZI *Impatiens balsamina*, KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], MAN SHAN HONG *Rhododendron dauricum*, MO SHI ZI *Quercus infectoria* (parasitic bee: *Cynips gallae-tinctoriae*), QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*], SANG HUANG *Phellinus igniarius* (sporocarp: yield = 0.00060%^[4747]), TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TU FU LING *Smilax glabra*, XIAN MAO *Curculigo orchioides* (rhizome), XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0021%^[4747]), XUAN FU HUA *Inula britannica*, YAO SHU KUI *Althaea officinalis*, YING SHAN HONG *Rhododendron mucronulatum*, ZHAO SHAN BAI *Rhododendron micranthum*, ZI BAI PI *Catalpa ovata*, *Citrus* sp., occurs in many plants. **Ref:** 6, 336, 658, 660, 2529, 4347, 4488, 4499, 4676, 4691, 4747, 5508.

**20567 Syringic acid methyl ester-4-O-β-D-apiofuranosyl-(1→2)-β-D-glucopyranoside**

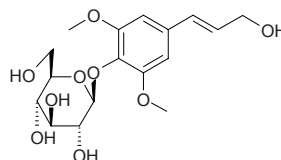
C₂₁H₃₀O₁₄ (506.46). **Source:** HE HUAN PI *Albizia julibrissin*. **Ref:** 660.

**20568 Syringic aldehyde**

C₃₀H₄₈O₄ (472.71). **Source:** *Eurycoma* sp. **Ref:** 4556.

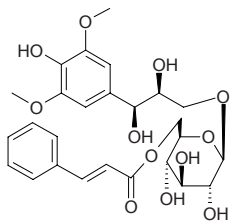
**20569 Syringin**

Sinapyl alcohol 4'-O-β-glucopyranoside; Magnolenin; Shashenoside I; Syringopicroside [118-34-3] C₁₇H₂₄O₆ (372.38). White granular crystals, mp 192°C (MeOH). **Pharm:** Anti-inflammatory (mouse, inhibits increased vascular permeability by acetic acid, 30mg/(kg·d), orl, InRt = 25%, control Indomethacin, 100mg/(kg·d), orl, InRt = 45%)^[4073]; anti-inflammatory (rat, acute paw edema by carrageen, 30mg/(kg·d), orl, 1h,3h,5h, InRt = 8%, 31%, 16%, control Ibuprofen, 100mg/(kg·d), orl, 1h,3h,5h, InRt = 42%, 55%, 47%)^[4073]; analgesic (mouse: acetic acid induced writhing, 30mg/(kg·d), orl, InRt = 37%, control Aspirin, 100mg/(kg·d), orl, InRt = 68%; hot plate test, 30mg/(kg·d), orl, increased action time = 51%; control Morphine, increased action time = 138%)^[4073]; anti-inflammatory (inhibits production of COX metabolite PGE₂, IC₅₀ = 35.5 μmol/L; reduces TXB2 level, IC₅₀ = 29.3 μmol/L)^[4415]; antioxidant inactive (*in vitro*, DPPH scavenger, IC₅₀ > 500 μmol/L; control Vitamin E, IC₅₀ = 20.1 μmol/L)^[4787]; α-glucosidase inhibitor inactive (type VI, control 1-Deoxyojirimycin, IC₅₀ = 0.3 mmol/L)^[4155]; thrombin inhibitor inactive^[4155]; β-glucuronidase inhibitor inactive^[4155]. **Source:** CANG ZHU *Atractylodes lancea*, CHANG MAO FENG MAO JU *Saussurea superba* [Syn. *Saussurea hieracioides*] (whole herb: content = 0.0304%)^[5508], CHUAN DANG SHEN *Codonopsis tangshen*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (root and rhizome: mean content = 0.069%^[5508]), DANG SHEN *Codonopsis pilosula*, DONG BEI CI REN SHEN *Oplopanax elatus*, DU ZHONG *Eucommia ulmoides*, DUN BAO XUE LIAN *Saussurea nigrescens* (whole herb: content = 0.0304%)^[5508], HE HUA XUE LIAN *Saussurea phaeantha* (whole herb: content = 0.0102%)^[5508], HE HUA YU LAN *Magnolia grandiflora*, HE YE FENG MAO JU *Saussurea graminea* (whole herb: content = 0.0154%)^[5508], HONG MAO WU JIA PI *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*] (root and stem: content = 0.035%)^[5508], KUO YE OU NV ZFEN *Phillyrea latifolia* (leaf), LIU CHUAN YU *Linaria vulgaris*, LIU YE CEN *Fraxinus stylosa*, MAO PAO TONG *Paulownia tomentosa*, MEI HUA FENG MAO JU *Saussurea pulchella* (whole herb: content = 0.0138%)^[5508], MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PAO TONG *Paulownia fortunei*, RI BEN AN XI XIANG JING PI *Syrax japonica* (stem cortex: yield = 0.00077%^[4787]), *Saussurea amarafisch* (whole herb: content = 0.0241%)^[5508], *Saussurea prostrata* (whole herb: content = 0.0636%)^[5508], *Saussurea soroseris* (whole herb: content = 0.0044%)^[5508], SHI LUO ZI *Anethum graveolens* (fruit), SHU QU FENG MAO JU *Saussurea gnaphaloides* (whole herb: content = 0.0327%)^[5508], SI JI QING *Ilex chinensis* [Syn. *Ilex purpurea*], TIAN NV MU LAN *Magnolia sieboldii* (stem cortex), WU JIA PI *Acanthopanax gracilistylus* (dried root cortex: mean content = 0.0228%)^[5508], XIAO HUA FENG MAO JU *Saussurea parviflora* (whole herb: content = 0.0176%)^[5508], XUE LIAN *Saussurea involucreta* (whole herb: content = 0.0232%)^[5508], YUN NAN TU SI ZI *Cuscuta reflexa*, ZI DING XIANG *Syringia oblata* (leaf: content = 0.144%)^[5508]. **Ref:** 2, 6, 450, 523, 527, 660, 1227, 4073, 4155, 4177, 4237, 4348, 4415, 4787, 5508.

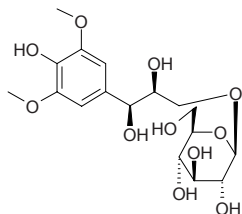


20570 (7*S*,8*S*)-Syringoylglycerol 9-*O*-(6'-*O*-cinnamoyl)- β -*D*-glucopyranoside

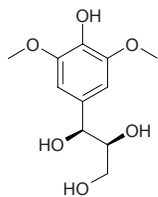
$C_{26}H_{32}O_{12}$ (536.54). Colorless oil, $[\alpha]_D^{23} = -31.5^\circ$ ($c = 1.0$, MeOH). **Pharm:** α -Glucosidase inhibitor (rat intestinal α -glucosidase, 3mmol/L, InRt = 54%; control 1-Deoxynojirimycin, 0.3 μ mol/L, InRt = 58%). **Source:** SHEN XIANG CAO *Hyssopus officinalis* (leaf). **Ref:** 3750.

**20571 (7*S*,8*S*)-Syringoylglycerol 9-*O*- β -*D*-glucopyranoside**

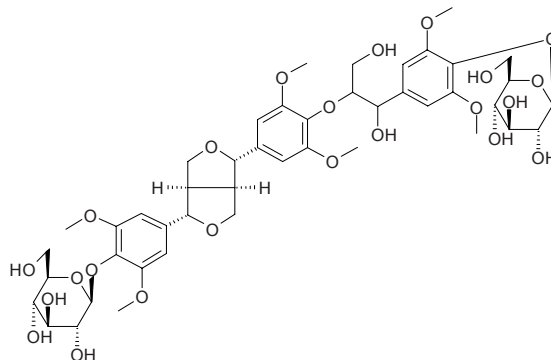
$C_{17}H_{26}O_{11}$ (406.39). Colorless oil, $[\alpha]_D^{23} = -17.7^\circ$ ($c = 0.5$, MeOH). **Pharm:** α -Glucosidase inhibitor (rat intestinal α -glucosidase, 3mmol/L, InRt = 53%; control 1-Deoxynojirimycin, 0.3 μ mol/L, InRt = 58%). **Source:** SHEN XIANG CAO *Hyssopus officinalis* (leaf). **Ref:** 3750.

**20572 erythro-1-*C*-Syringylglycerol**

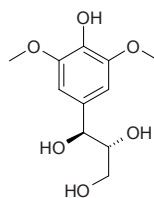
$C_{11}H_{16}O_6$ (244.25). **Source:** *Eurycoma* sp. **Ref:** 4556.

**20573 Syringylglycerol- β -syringaresinol ether-4'',4'''-di-*O*- β -*D*-glucopyranoside**

$C_{45}H_{60}O_{23}$ (968.97). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**20574 threo-1-*C*-Syringylglycerol**

$C_{11}H_{16}O_6$ (244.25). **Source:** *Eurycoma* sp. **Ref:** 4556.



Jiaju Zhou · Guirong Xie · Xinjian Yan

Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Vol.5

Isolated Compounds T-Z
References, TCM Plants and Congeners

 Springer

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Molecular Structures, Pharmacological Activities,
Natural Sources and Applications

Jiaju Zhou • Guirong Xie • Xinjian Yan

Encyclopedia of
Traditional Chinese Medicines
Molecular Structures, Pharmacological
Activities, Natural Sources and Applications

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Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

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- [3] Jiaju Zhou, Guirong Xie and Xinjian Yan, *Handbook of Chemical Components in Plant Origins of Traditional Chinese Medicines*, Chemical Industry Press, Beijing, 2004 (in Chinese)
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Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

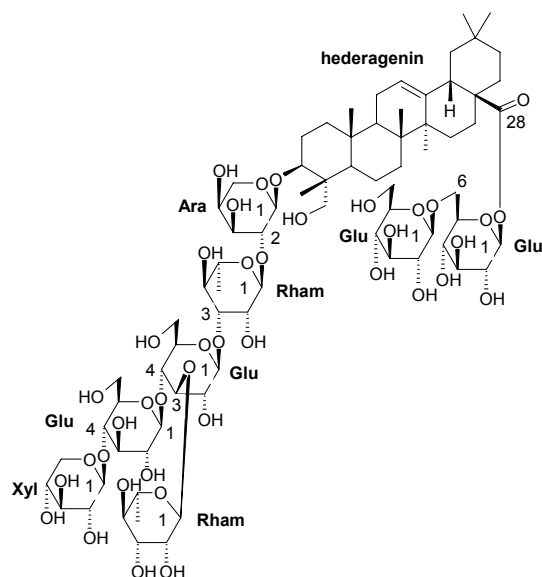
Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl(1 \rightarrow 4)]
 [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)-
 α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-
 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside

Normalization of Pharmacological Data. More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD₅₀, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

Term name (*in vitro/in vivo*,
 target cell **1**, quantitative data,
 control Compound, control's data;
 target cell **2**, quantitative data,
 control Compound, control's data;
 target cell **3**, quantitative data,
 control Compound, control's data;
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, $IC_{50} = 4.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.08\mu\text{g/mL}$;
 CHAGO human undifferentiated lung cancer cell, $IC_{50} = 5.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$;
 HepG2 human liver cancer cell, $IC_{50} = 6.5\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$;
 Kato3 human gastric cancer cell, $IC_{50} = 5.3\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$;
 SW620 human colorectal adenocarcinoma cell, $IC_{50} = 5.6\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

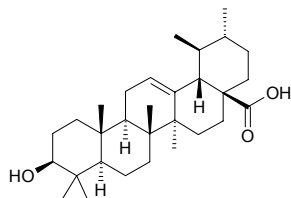
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.11µg/mL)^[4369];

cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)µmol/L, control Etoposide, IC₅₀ = (0.5±0.2)µmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)µmol/L; KB cell, IC₅₀ = (8.2±2.7)µmol/L, Etoposide, IC₅₀ = (0.9±0.3)µmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)µmol/L; HT29 cell, IC₅₀ = (4.7±1.5)µmol/L, Etoposide, IC₅₀ = (2.4±0.5)µmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)µmol/L)^[5254];

antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);

antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];

antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50~400µg/mL, gram-negative bacteria *in vitro*, MIC = 200~800µg/mL, microzyme *in vitro*, MIC = 100~700µg/mL);

antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5µg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3277)^[4986];

anticonvulsant (induced by corazol);

anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);

anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];

COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130µmol/L)^[4415];

COX-2 enzyme inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];

antipyretic (clearly reduces normal body temperature of rat);

reduces serum transaminase (animal, 100mg/kg);

antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)^[2579];

mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];

platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (511±4)µmol/L, control ASA, IC₅₀ = (420±3)µmol/L; 1~4µmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)µmol/L, ASA, IC₅₀ = (53.0±4.5)µmol/L; 10~40µmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)µmol/L, ASA, IC₅₀ = (66.0±2.1)µmol/L; 1~5µmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000µmol/L, ASA, IC₅₀ = (340±12)µmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)µmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (Itn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	D-GalN	D-galactosamine
c	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	N-methyl-D-aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmn Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccina open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermatoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGc803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

Volume 5

Isolated Compounds (T-Z)

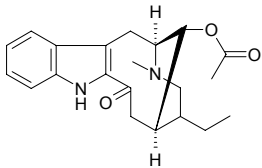
References

TCM Plants and Congeners

T

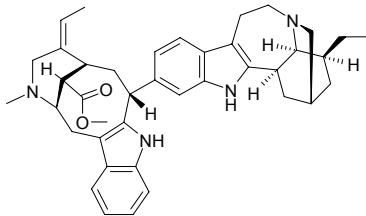
20575 Tabernaemontanine

$C_{21}H_{26}N_2O_3$ (354.45). Acicular crystals (ethyl acetate), mp 219–222°C, $[\alpha]_D^{25} = -57.5^\circ$ ($c = 1$, chloroform); hydrochloride crystals (acetone), mp 230–233°C. **Pharm:** Antibacterial (against 30 different pathogenic bacterial strains, 3.7% solution, InRt = 17%); cytotoxic (KB); used in treatment of arteriosclerosis, cerebral wounds and dysemia; vasodilator (dog, iv, 0.5–5.0mg/kg). **Source:** DONG FANG GOU YA HUA *Ervatamia orientalis*. **Ref:** 658.



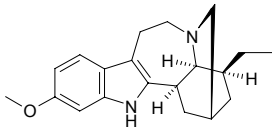
20576 Tabernamine

$C_{40}H_{48}N_4O_2$ (616.85). **Pharm:** Antineoplastic (P₃₈₈). **Source:** YUE HAN SI TONG SHAN MA CHA *Tabernaemontana johnstonii*. **Ref:** 658.



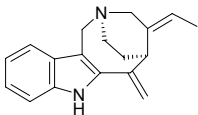
20577 Tabernanthine

$C_{20}H_{26}N_2O$ (310.44). **Pharm:** CNS activity; binding activity to benzodiazepine receptor. **Source:** family Apocynaceae spp. **Ref:** 658.



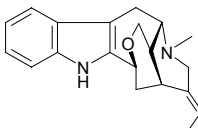
20578 Tabernoschizine

Pericalline [2122-36-3] $C_{18}H_{20}N_2$ (264.37). mp 198–199°C. **Pharm:** Analgesic; antibacterial (*Shigella* sp., *Salmonella* sp., *Escherichia* sp., *Bacillus termo*, *Pseudomonas maltophilia*, *Staphylococcus* sp.); antiviral (spodiomyelitis virus). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CU MAO GUO BAI JIAN MU *Aspidosperma dasycarpon*. **Ref:** 6, 658, 1521.



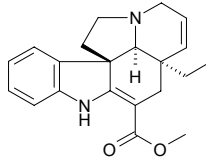
20579 19-(Z)-Taberpsychine

$C_{20}H_{24}N_2O$ (308.43). Oil, $[\alpha]_D = -180^\circ$. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14, 411, 416.



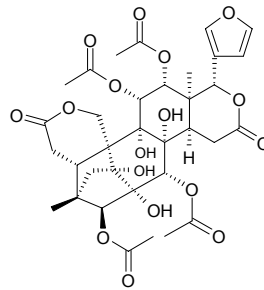
20580 Tabersonine

$C_{21}H_{24}N_2O_2$ (336.44). **Pharm:** Antihypertensive. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 658.



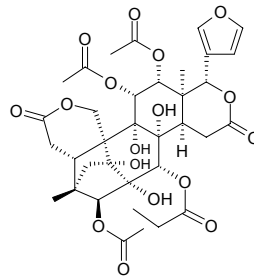
20581 Tabulalide A

$C_{34}H_{40}O_{17}$ (720.69). White amorphous powder, $[\alpha]_D = -44^\circ$ ($c = 0.21$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



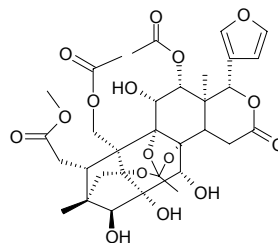
20582 Tabulalide B

$C_{35}H_{42}O_{17}$ (734.71). White amorphous powder, $[\alpha]_D = -37^\circ$ ($c = 0.14$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



20583 Tabulalide C

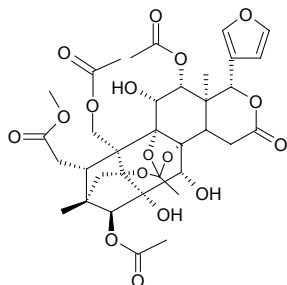
$C_{33}H_{40}O_{16}$ (692.68). White amorphous powder, $[\alpha]_D = -49^\circ$ ($c = 0.28$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



20584 Tabulalide D

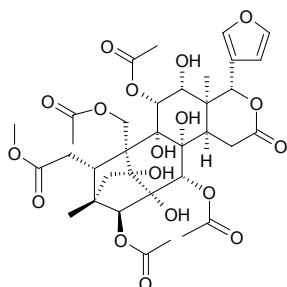
$C_{35}H_{42}O_{17}$ (734.71). White amorphous powder, $[\alpha]_D = -52^\circ$ ($c = 0.16$, MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20585 Tabulalide E**

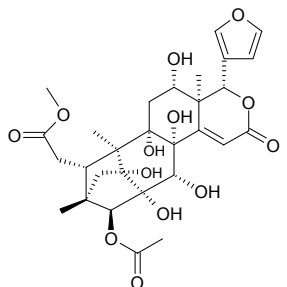
$C_{35}H_{44}O_{18}$ (752.73). White amorphous powder, $[\alpha]_D = -2.9^\circ$ ($c = 0.07$, MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20586 Tabularin**

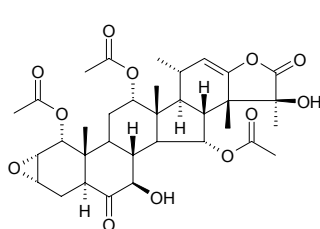
$C_{29}H_{36}O_{13}$ (592.60). White amorphous powder, $[\alpha]_D = +41^\circ$ ($c = 0.19$, MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20587 Taccalonolide E**

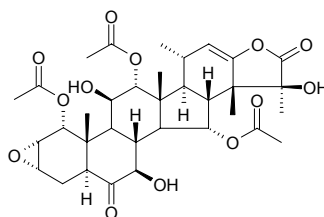
$C_{34}H_{44}O_{12}$ (644.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

Schizocapsa plantaginea]. Ref: 293.

**20588 Taccalonolide F**

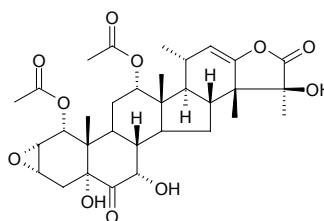
$C_{34}H_{44}O_{13}$ (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

Schizocapsa plantaginea]. Ref: 293.

**20589 Taccalonolide G**

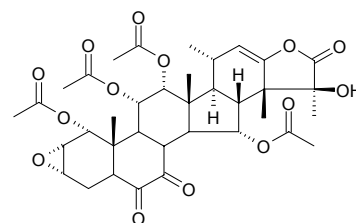
$C_{32}H_{42}O_{11}$ (602.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

Schizocapsa plantaginea]. Ref: 293.

**20590 Taccalonolide H**

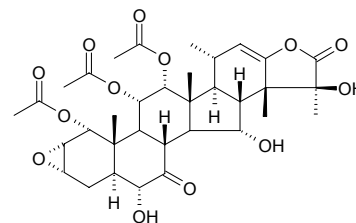
$C_{36}H_{44}O_{14}$ (700.74). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

Schizocapsa plantaginea]. Ref: 293.

**20591 Taccalonolide I**

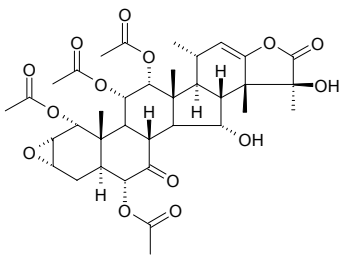
$C_{34}H_{44}O_{13}$ (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

Schizocapsa plantaginea]. Ref: 293.

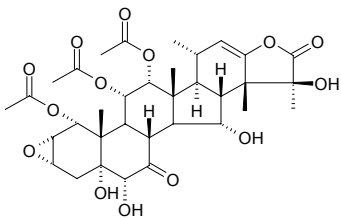


20592 Taccalonolide J

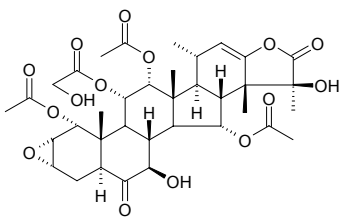
$C_{36}H_{46}O_{14}$ (702.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20593 Taccalonolide K**

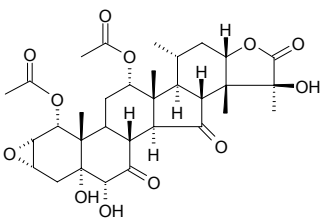
$C_{34}H_{44}O_{14}$ (676.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20594 Taccalonolide L**

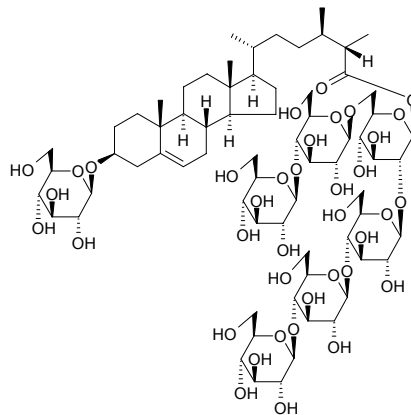
$C_{36}H_{46}O_{15}$ (718.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20595 Taccalonolide M**

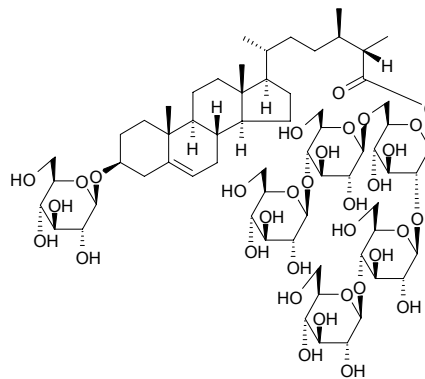
$C_{32}H_{42}O_{12}$ (618.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20596 Taccasteroside A**

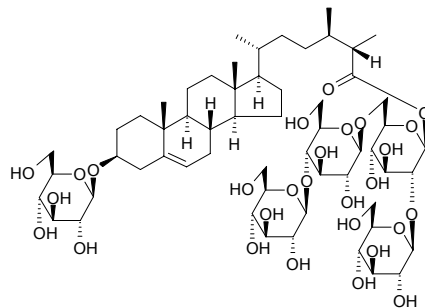
(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{70}H_{116}O_{38}$ (1565.68). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

**20597 Taccasteroside B**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{64}H_{106}O_{33}$ (1403.54). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

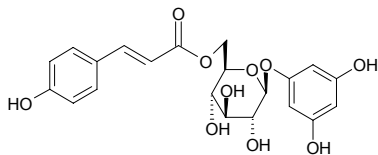
**20598 Taccasteroside C**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)-oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{58}H_{96}O_{28}$ (1241.40). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

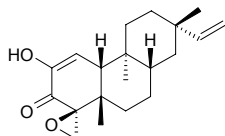


20599 Tadehaginoside

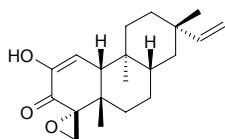
$C_{21}H_{22}O_{10}$ (434.40). White acicular crystals (CH_3OH), mp 121~123°C, $[\alpha]_D^{28} = -14.7^\circ$ ($c = 0.2$, CH_3OH). Source: HU LU CHA *Tadehagi triquetrum*. Ref: 777.

**20600 Tagalsin A**

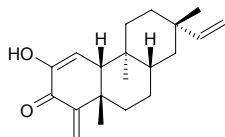
$C_{20}H_{28}O_3$ (316.44). Pale yellow needle crystals, mp 67~69°C, $[\alpha]_D^{25} = +69.26^\circ$ ($c = 0.054$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20601 Tagalsin B**

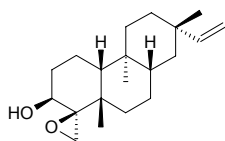
$C_{20}H_{28}O_3$ (316.44). White solid, mp 66~68°C, $[\alpha]_D^{25} = +165^\circ$ ($c = 0.06$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20602 Tagalsin C**

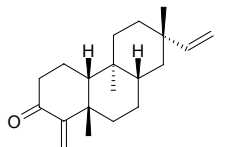
$C_{20}H_{28}O_2$ (300.44). Yellow oil, $[\alpha]_D^{25} = +92.3^\circ$ ($c = 0.05$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20603 Tagalsin D**

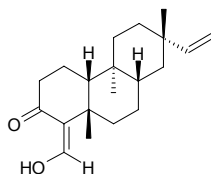
$C_{20}H_{32}O_2$ (304.48). White solid, mp 64~66°C, $[\alpha]_D^{25} = +38.4^\circ$ ($c = 0.074$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20604 Tagalsin E**

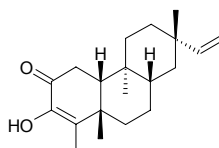
$C_{20}H_{30}O$ (286.46). Yellow solid, mp 73~75°C, $[\alpha]_D^{25} = +7.85^\circ$ ($c = 0.07$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20605 Tagalsin F**

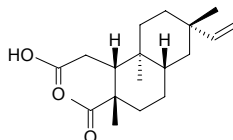
$C_{20}H_{30}O_2$ (302.46). White solid, mp 98~99°C, $[\alpha]_D^{25} = +34.86^\circ$ ($c = 0.072$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20606 Tagalsin G**

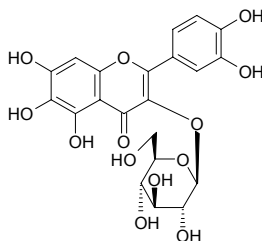
$C_{20}H_{30}O_2$ (302.46). Colorless oil, $[\alpha]_D^{25} = +55.97^\circ$ ($c = 0.09$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20607 Tagalsin H**

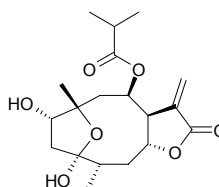
$C_{19}H_{30}O_3$ (306.45). White powder, mp 101~102°C. Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20608 Tagetiin**

$C_{21}H_{20}O_{13}$ (480.39). mp 203°C (dec). Source: WAN SHOU JU *Tagetes erecta*. Ref: 6.

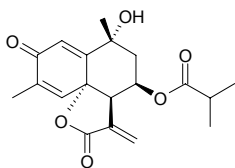
**20609 Tagitinin A**

$C_{19}H_{28}O_7$ (368.43). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.

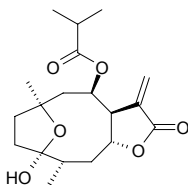


20610 Tagitinin C

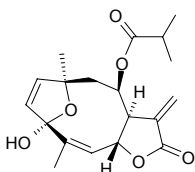
$C_{19}H_{22}O_6$ (346.38). **Pharm:** Cytotoxic (antiproliferative, Col2 cells, $IC_{50} = 0.7\mu\text{g/mL}$); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, $4\mu\text{g/mL}$, activity denotes percentage of cells differentiated = 20.2%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, $10\mu\text{g/mL}$, rel-InRt = 44.4%, control DMBA, rel-InRt = 100%). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts, 13.9%dw). **Ref:** 4622.

**20611 Tagitinin D**

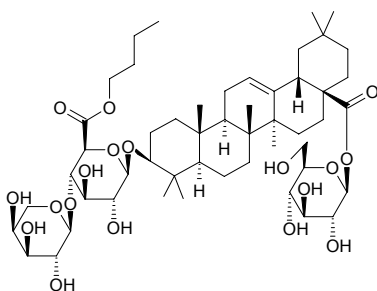
Tirotundin [56377-67-4] $C_{19}H_{28}O_6$ (352.43). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts). **Ref:** 4622.

**20612 Tagitinin F**

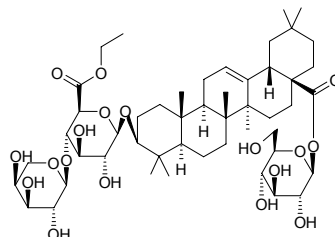
$C_{19}H_{24}O_6$ (348.40). Colorless acicular crystals (benzene-hexane), mp $128\sim 130^\circ\text{C}$, $[\alpha]_D = -144^\circ$ ($c = 1$, ethanol). **Pharm:** Antineoplastic (mus P₃₈₈, 1.25mg/kg, biotic prolonged rate = 61%). **Source:** MO XI GE XIANG RI KUI *Tithonia tagiliflora*. **Ref:** 661.

**20613 Taibaienoside I**

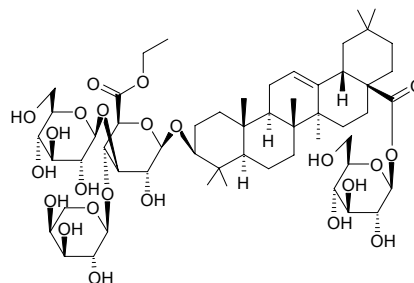
3-*O*-[α -*L*-Arabinofuranosyl (1 \rightarrow 4)-6'-*O*-*n*-butyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{51}H_{82}O_{18}$ (983.21). White acicular crystals (chloroform-methanol), mp $177\sim 180^\circ\text{C}$, $[\alpha]_D^{20} = -20.23^\circ$ ($c = 0.54$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20614 Taibaienoside II**

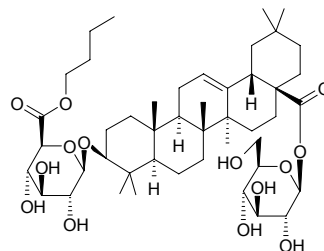
3-*O*-[α -*L*-Arabinofuranosyl-(1 \rightarrow 4)-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{49}H_{78}O_{18}$ (955.16). White crystalline powder, mp $194\sim 195^\circ\text{C}$, $[\alpha]_D^{20} = -22.85^\circ$ ($c = 0.41$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20615 Taibaienoside III**

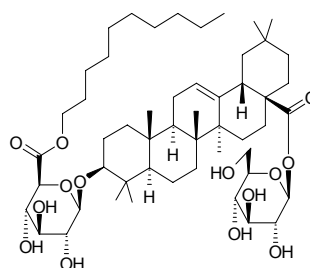
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{55}H_{88}O_{23}$ (1117.30). White crystalline powder, mp $194\sim 195^\circ\text{C}$, $[\alpha]_D^{20} = -22.85^\circ$ ($c = 0.41$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20616 Taibaienoside IV**

$C_{46}H_{74}O_{14}$ (851.09). White crystalline powder, mp $181\sim 184^\circ\text{C}$, $[\alpha]_D^{20} = +8.12^\circ$ ($c = 0.23$, MeOH). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.

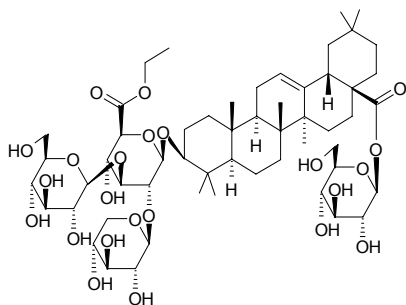
**20617 Taibaienoside V**

$C_{52}H_{86}O_{14}$ (935.26). White crystalline powder, mp $162\sim 164^\circ\text{C}$. **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.

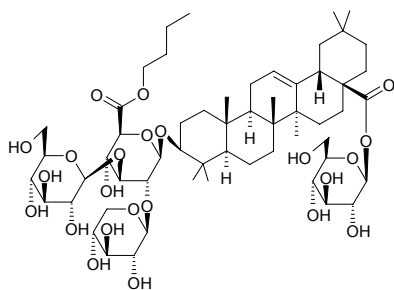


20618 Taibaienoside VII

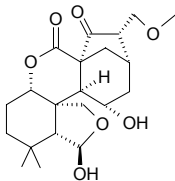
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)][β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl] oleanolic acid-28-*O*- β -*D*-glucopyranoside C₅₅H₈₈O₂₃ (1117.30). White crystalline powder, mp 207~209°C. Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20619 Taibaienoside VIII**

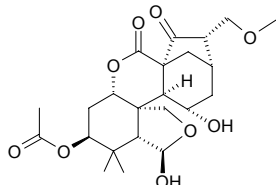
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)][β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-butyl- β -*D*-glucuronopyranosyl]oleano-lic acid-28-*O*- β -*D*-glucopyranoside C₅₇H₉₂O₂₃ (1145.35). White crystalline powder, mp 212~213°C, [α]_D²⁰ = +4.90° (*c* = 0.82, methanol). Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20620 Taibaijaponicain A**

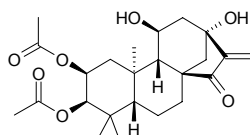
6 β ,11 α -Dihydroxy-16 α -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C₂₁H₃₀O₇ (394.47). Amorphous powder, [α]_D¹⁷ = -104.7° (*c* = 0.49, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20621 Taibaijaponicain B**

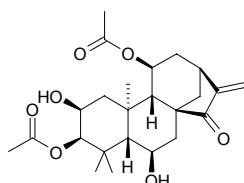
3 β -Acetoxy-6 β ,11 α -dihydroxy-16 α -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C₂₃H₃₂O₉ (452.51). Amorphous powder, [α]_D¹⁷ = -98.6° (*c* = 0.5, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20622 Taibairubescensin A**

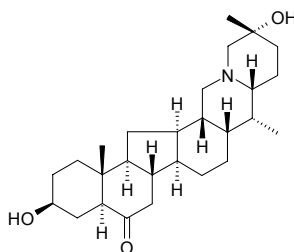
2 β ,3 β -Diacetoxy-11 β ,13 α -dihydroxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Amorphous powder, [α]_D¹⁷ = 49.3° (*c* = 0.5, CHCl₃). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20623 Taibairubescensin B**

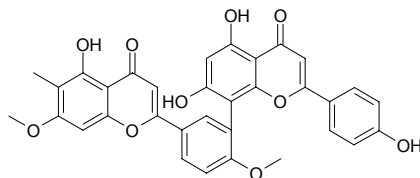
3 β ,11 β -Diacetoxy-2 β ,6 α -dihydroxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Amorphous powder, [α]_D¹⁷ = -34° (*c* = 1, CHCl₃). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20624 Taipaienine**

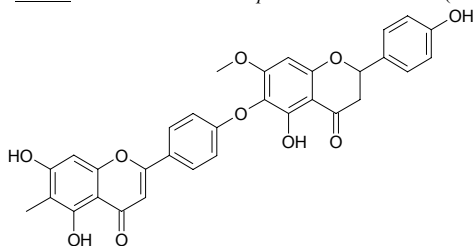
C₂₇H₄₃NO₃ (429.65). Acicular crystals, mp 120~122°C, [α]_D²⁸ = +12.9° (*c* = 0.31, MeOH). Source: NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*. Ref: 271.

**20625 Taiwanhomoflavone A**

C₃₃H₂₄O₁₀ (580.55). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00087%dw). Ref: 4759.

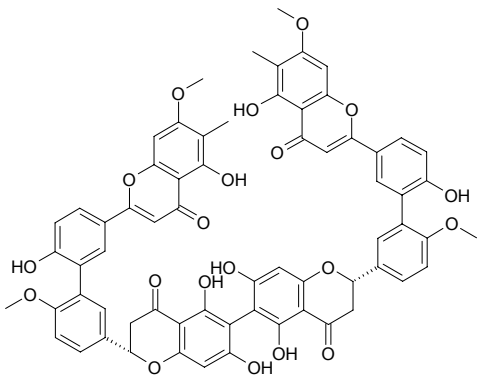
**20626 Taiwanhomoflavone B**

C₃₂H₂₄O₁₀ (568.54). Pale yellow powder. Pharm: Cytotoxic (KB oral epidermoid carcinoma, ED₅₀ = 3.8 μ g/mL, Hep3B hepatoma cells, ED₅₀ = 3.5 μ g/mL). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253.

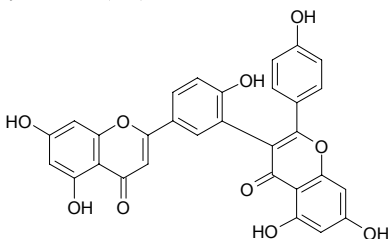


20627 Taiwanhomoflavone C

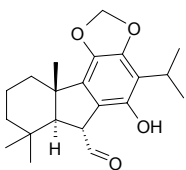
Di(5,7,4"-trihydroxy-2,3-dihydro-4',7"-dimethoxy-6"-methyl-3',3"-biflavanyl)-6,6-tetraflavone C₆₆H₅₀O₂₀ (1163.12). Yellow amorphous solid, $[\alpha]_D^{28} = +44^\circ$ ($c = 0.114$, MeOH). **Source:** TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf; yield = 0.00096%dw). **Ref:** 4759.

**20628 Taiwaniaflavone**

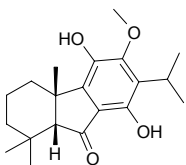
C₃₀H₁₈O₁₀ (538.47). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). **Ref:** 4297.

**20629 Taiwaniaquinol A**

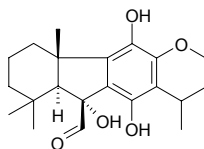
C₂₁H₂₈O₄ (344.45). $[\alpha]_D^{22} = +80.5^\circ$ ($c = 0.38$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ = (8.3±0.4)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20630 Taiwaniaquinol B**

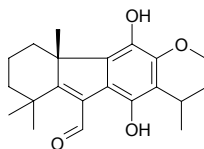
C₂₀H₂₈O₄ (332.44). $[\alpha]_D^{22} = -50.1^\circ$ ($c = 0.27$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20631 Taiwaniaquinol C**

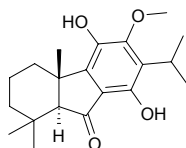
C₂₁H₃₀O₅ (362.47). Yellowish amorphous, $[\alpha]_D^{23} = -10.5^\circ$ ($c = 0.32$, CHCl₃); $[\alpha]_D^{22} = -10.5^\circ$ ($c = 0.32$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ = (8.1±0.7)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L)^[5045]. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20632 Taiwaniaquinol D**

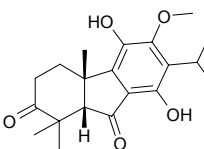
C₂₁H₂₈O₄ (344.45). Red-orange gum, $[\alpha]_D^{23} = -80.2^\circ$ ($c = 0.32$, CHCl₃); $[\alpha]_D^{22} = -80.2^\circ$ ($c = 0.32$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ = (3.5±0.1)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L)^[5045]. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20633 Taiwaniaquinol E**

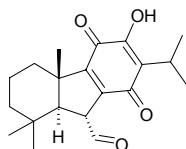
C₂₀H₂₈O₄ (332.44). Yellowish gum, $[\alpha]_D^{22} = -8.3^\circ$ ($c = 0.32$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20634 Taiwaniaquinol F**

C₂₀H₂₆O₅ (346.43). Yellowish gum, $[\alpha]_D^{22} = -5.2^\circ$ ($c = 0.32$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

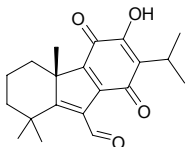
**20635 Taiwaniaquinone A**

C₂₀H₂₆O₄ (330.43). $[\alpha]_D^{22} = -210.5^\circ$ ($c = 0.34$, CHCl₃). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC₅₀ = (6.9±0.3)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

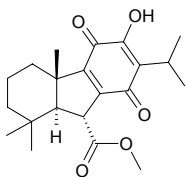


20636 Taiwaniaquinone D

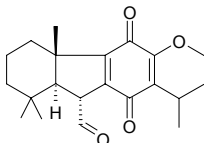
$C_{20}H_{24}O_4$ (328.41). $[\alpha]_D^{22} = -5.6^\circ$ ($c = 0.54$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} = (7.2 \pm 0.05) \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20637 Taiwaniaquinone E**

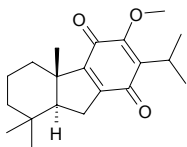
$C_{21}H_{28}O_5$ (360.45). $[\alpha]_D^{22} = -205.5^\circ$ ($c = 0.34$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20638 Taiwaniaquinone F**

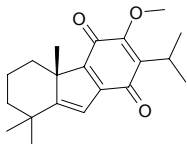
$C_{21}H_{28}O_4$ (344.45). Orange amorphous, $[\alpha]_D^{23} = -166.2^\circ$ ($c = 0.29$, $CHCl_3$); $[\alpha]_D^{22} = -116.2^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} = (4.4 \pm 0.34) \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$)^[5045]. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20639 Taiwaniaquinone G**

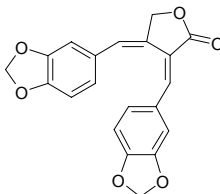
$C_{20}H_{28}O_3$ (316.44). Yellowish amorphous solid, $[\alpha]_D^{22} = -120.8^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20640 Taiwaniaquinone H**

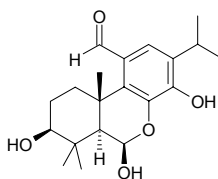
$C_{20}H_{26}O_3$ (314.43). Red-orange amorphous solid, $[\alpha]_D^{22} = -9.0^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20641 Taiwanin A**

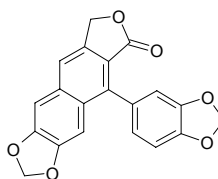
$C_{20}H_{14}O_6$ (350.33). **Pharm:** Cytotoxic (A549, $ED_{50} = 0.2 \mu\text{mol/L}$, $ED_{50} = 0.4 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 0.2 \mu\text{mol/L}$, $ED_{50} = 0.5 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.3 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

**20642 Taiwaninal**

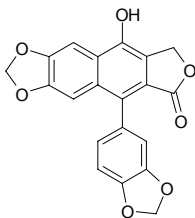
$C_{20}H_{28}O_5$ (348.44). Yellowish solid, mp 160~162°C, $[\alpha]_D^{25} = -23.5^\circ$ ($c = 0.19$, $CHCl_3$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

**20643 Taiwanin C**

$C_{20}H_{12}O_6$ (348.32). **Pharm:** Cytotoxic (A549, $ED_{50} = 5.8 \mu\text{mol/L}$, $ED_{50} = 16.7 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 4.1 \mu\text{mol/L}$, $ED_{50} = 11.7 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 14.3 \mu\text{mol/L}$, $ED_{50} = 41.1 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

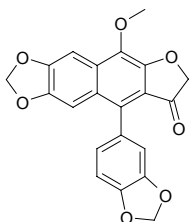
**20644 Taiwanin E**

$C_{20}H_{12}O_7$ (364.31). **Pharm:** Cytotoxic (A549, $ED_{50} = 1.2 \mu\text{mol/L}$, $ED_{50} = 3.4 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 0.5 \mu\text{mol/L}$, $ED_{50} = 1.4 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 0.6 \mu\text{mol/L}$, $ED_{50} = 1.5 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

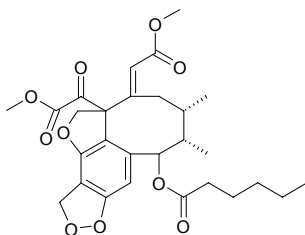


20645 Taiwanin E methyl ether

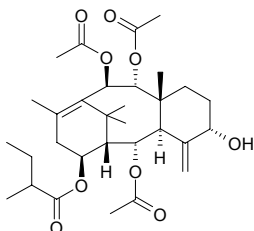
$C_{21}H_{14}O_7$ (378.34). mp 227~230°C. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*], QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0045%dw). Ref: 6, 4712.

**20646 Taiwanschirin D**

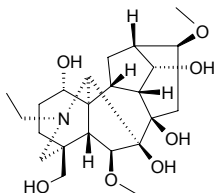
$C_{28}H_{34}O_{10}$ (530.58). Source: *Kadsura matsudai*. Ref: 2436.

**20647 Taiwanxan**

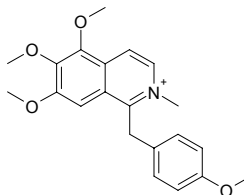
$C_{31}H_{46}O_9$ (562.71). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20648 Takaosamine**

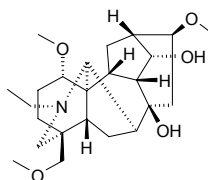
[71239-56-0] $C_{23}H_{37}NO_7$ (439.55). mp 174~175°C, $[\alpha]_D^{20} = +61.2^\circ$ ($c = 0.41$, $CHCl_3$). Source: RI BEN WU TOU *Aconitum japonicum*. Ref: 1521.

**20649 Takatonine**

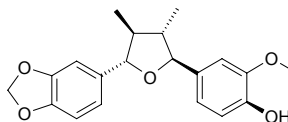
$C_{21}H_{24}NO_4$ (354.43). Source: XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii*. Ref: 6, 1521.

**20650 Talatisamine**

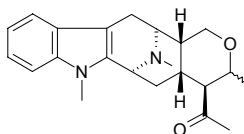
$C_{24}H_{39}NO_5$ (421.58). Colorless crystals, mp 151~152°C. Pharm: Anti-inflammatory; blocks sympathetic ganglia (dog iv, 20mg/kg); antihypertensive; LD₅₀ (mus iv) = 115mg/kg. Source: BAN HUA WU TOU *Aconitum variegatum*, DA DU WU TOU *Aconitum franchetii* (dried tuberoid: content = 0.017%)^[5508], FU ZI *Aconitum carmichaeli*, GAN QING WU TOU *Aconitum tanguticum*, GUA YE WU TOU *Aconitum hemsleyanum*, LIN DI WU TOU *Aconitum nemorum*, MIAN NING WU TOU *Aconitum legendrei*, TA LA WU TOU *Aconitum talassicum*, WU TOU *Aconitum carmichaeli*, ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (tuberoid: yield = 0.019%dw)^[4678]. Ref: 2, 658, 2203, 3171, 4678, 5508.

**20651 Talaumidin**

(7*S*,7'*S*,8*S*,8'*S*)-4-Hydroxy-3-methoxy-3',4'-methylenedioxy-7,7'-epoxilignan $C_{20}H_{22}O_5$ (342.40). Pharm: Neurotrophic (primary culture of rat cortical neurons; trophic withdrawal model, 3~30μmol/L, protects cell death caused by deprivation of serum). Source: GONG XING MA DOU LING *Aristolochia arcuata* (root). Ref: 4999.

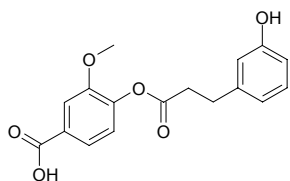
**20652 Talcarpine**

$C_{22}H_{28}N_2O_2$ (352.48). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0026%). Ref: 3020.

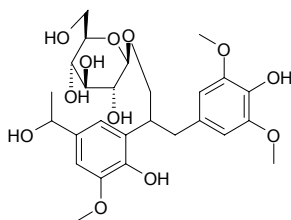


20653 Tamariscina ester A

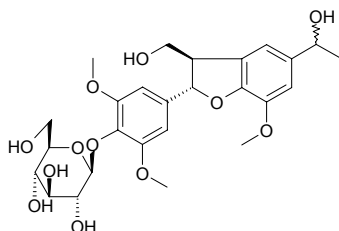
$C_{17}H_{16}O_6$ (316.31). White needles (MeOH), mp 109~110°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4828.

**20654 Tamariscinoid B**

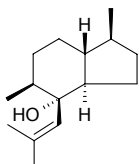
1-Hydroxy-2-[2-hydroxy-3-methoxy-5-(1-hydroxyethyl)-phenyl]-3-(4-hydroxy-3,5-dimethoxy)propane-1-*O*- β -D-glucuronopyranoside $C_{26}H_{36}O_{12}$ (540.57). White amorphous powder, mp 241~242°C, $[\alpha]_D^{25} = -24^\circ$ ($c = 0.75$, H_2O). Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4835.

**20655 Tamariscinoid C**

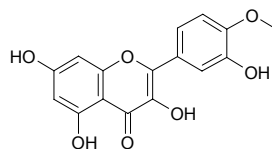
(7*S*,8*R*)-7,8-Dihydro-7-(4-hydroxy-3,5-dimethoxyphenyl)-8-hydroxymethyl-[1'-(7-hydroxyethyl)-5'-methoxyl] benzofuran-4-*O*- β -D-glucopyranoside $C_{26}H_{34}O_{12}$ (538.55). Colorless powder, easily soluble in MeOH and H_2O , mp 238~240°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4850.

**20656 Tamariscol**

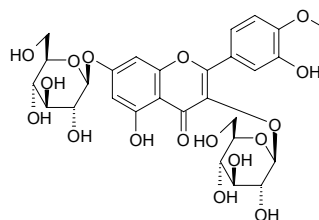
$C_{15}H_{26}O$ (222.37). Source: CHUAN ZHU ER YE TAI *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*]. Ref: 660.

**20657 Tamarixetin**

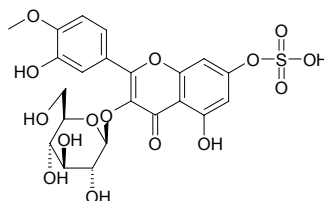
3,5,7,3'-Tetrahydroxy-4'-methoxy flavone $C_{16}H_{12}O_7$ (316.27). Source: HUANG HUA HAO *Artemisia annua*. Ref: 660.

**20658 Tamarixetin 3-*O*- β -D-glucopyranoside 7-*O*- β -D-glucopyranoside**

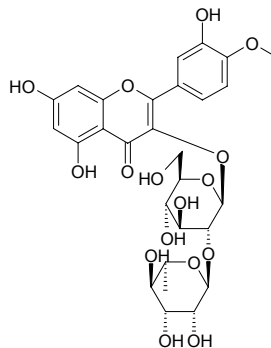
$C_{28}H_{32}O_{17}$ (640.56). Source: *Zanthoxylum* sp. Ref: 2176.

**20659 Tamarixetin 3-glucoside-7-sulphate**

$C_{23}H_{22}O_{15}S$ (538.42). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

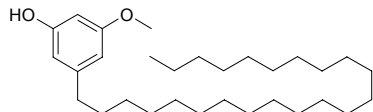
**20660 Tamarixetin 3-*O*-neohesperidoside**

3-[[2-*O*-(6-Deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4*H*-1-benzopyran-4-one $C_{28}H_{32}O_{16}$ (624.56). Yellow amorphous powder (MeOH), mp 180~190°C (dec), $[\alpha]_D^{20} = -78^\circ$ ($c = 0.001$, DMSO). Pharm: Nitric oxide production inhibitor inactive ($IC_{50} > 100\mu g/mL$). Source: SUI ZHUANG BI QIAO JIANG *Costus spicatus* (leaf) Ref: 3898.

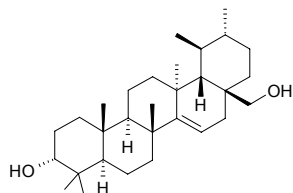


20661 Tamarixinol

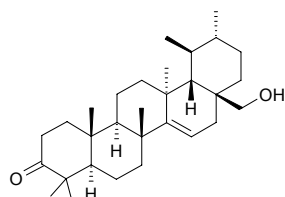
$C_{30}H_{54}O_2$ (446.75). Yellow white granular crystals, mp 77~78°C (anhydrous ethanol), easily soluble in hexane, chloroform and anhydrous ethanol. Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20662 Tamarixol**

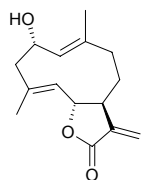
$C_{30}H_{50}O_2$ (442.73). White acicular crystals, mp 252~253°C (acetic ester). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20663 Tamarixone**

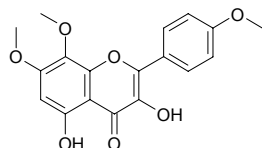
$C_{30}H_{48}O_2$ (440.72). White crystalline powder, mp 238~240°C (anhydrous ethanol). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20664 Tamaulipin A**

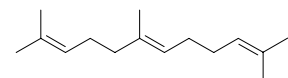
$C_{15}H_{20}O_3$ (248.33). Pharm: Antineoplastic; cytotoxic. Source: MI HUA TUN CAO *Ambrosia confertiflora*, BAI CI GUO TUN CAO *Ambrosia dumosa*. Ref: 658.

**20665 Tambulin**

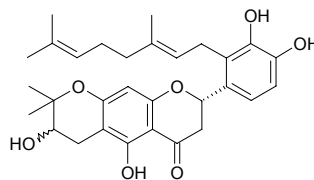
$C_{18}H_{16}O_7$ (344.32). Source: CI HUA JIAO *Zanthoxylum acanthopodium*, SHUANG SE JIN GUANG JU *Rudbeckia bicolor*. Ref: 1521.

**20666 Tanacetene**

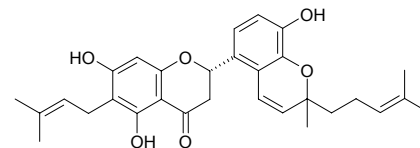
2,6,11-Trimethyl-dodesa-2,6,10-triene $C_{15}H_{26}$ (206.37). Yellowish oil. Source: CHANG YE AI JU *Tanacetum longifolium*. Ref: 1934.

**20667 Tanariflavanone A**

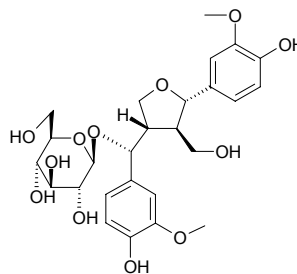
$C_{30}H_{36}O_7$ (508.62). Greenish oil, $[\alpha]_D^{24.6} = +26.8^\circ$ ($c = 0.6$, $CHCl_3$). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20668 Tanariflavanone B**

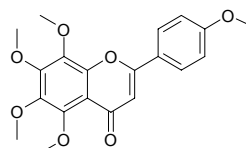
$C_{30}H_{34}O_6$ (490.6). Brownish oil, $[\alpha]_D^{24.6} = +28.2^\circ$ ($c = 0.5$, $CHCl_3$). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20669 Tanegoside**

$C_{26}H_{34}O_{12}$ (538.55). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**20670 Tangeretin**

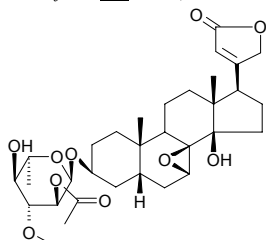
5,6,7,8,4'-Pentamethoxyflavone [481-53-8] $C_{20}H_{20}O_7$ (372.38). Rods or needles (EtOAc), mp 154°C, mp 150~151°C. Pharm: Antineoplastic (induces leucocyte inhibiting growth of HL-60 leukemia cell, dissolves cancer cell); cytotoxic (number of tumor cell lines, antiproliferative, induces differentiation of HL-60 cells *in vitro* in a concentration-dependent manner)^[5369]; cytotoxic (inhibits invasion of mus MO4 cells into embryonic chick heart fragments *in vitro*)^[5369]; antiviral; antibacterial; antifungal; feeding pregnant rat (10mg/kg, death rate of filial generation 83%); smooth muscle relaxant. Source: HUA ZHOU YOU *Citrus grandis* var. *tomentosa*, JIN GAN *Fortunella japonica*, JIN JU *Fortunella margarita*, JU PI *Citrus reticulata*, ZHI SHI *Citrus aurantium*, *Citrus* sp. Ref: 2, 6, 658, 979, 1521, 2194, 2867, 5369.



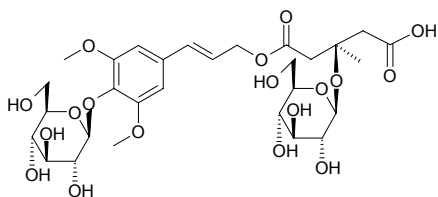
20671 Tanghinin

[25390-16-3] C₃₂H₄₆O₁₀ (590.72). **Pharm:** Cytotoxic (KB, ED₅₀ = 1.29 μg/mL, BC, ED₅₀ = 0.77 μg/mL, NCI-H187, ED₅₀ = 2.3 μg/mL)^[2594]; cardiotoxic.

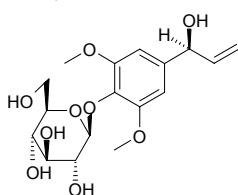
Source: NIU XIN QIE ZI *Cerbera manghas*, TAN MANG GUO *Tanghinia venenifera*. **Ref:** 1521, 2594.

**20672 Tangshenoside I**

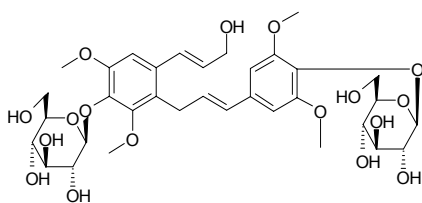
C₂₉H₄₂O₁₈ (678.65). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.073%^[5508]). **Ref:** 2, 660, 5508.

**20673 Tangshenoside II**

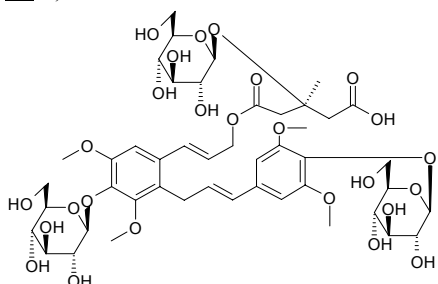
C₁₇H₂₄O₉ (372.38). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20674 Tangshenoside III**

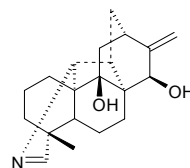
C₃₄H₄₆O₁₇ (726.74). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20675 Tangshenoside IV**

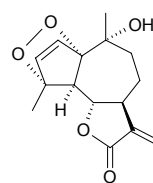
C₄₆H₆₄O₂₆ (1033.01). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20676 Tangutimine**

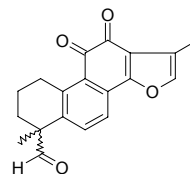
C₂₀H₂₇NO₂ (313.44). Colorless crystals, mp 252–253°C, [α]_D²⁰ = +93.0° (c = 0.166, CH₃OH). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 2203.

**20677 Tanparthin-α-peroxide**

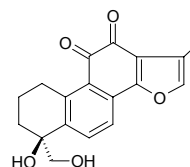
C₁₅H₁₈O₅ (278.31). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**20678 Tanshinaldehyde**

Tanshinaldehyde II C₁₉H₁₆O₄ (308.34). Dark red acicular crystals, mp 223–225°C. **Source:** BAI HUA DAN SHEN *Salvia miltiorrhiza* f. *alba*. **Ref:** 185.

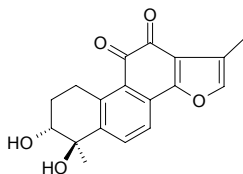
**20679 Tanshindiol A**

(+)-Tanshindiol A [97411-46-6] C₁₈H₁₆O₅ (312.33). Orange red scale substance (EtOAc), mp 222°C; jacinth acicular crystals, mp 222–223°C, [α]_D = +10.5° (c = 0.55, methanol). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv, MIC = 5 mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.2–0.8 μg/mL); restores miocardia force after anoxia (rat, 5 μmol/L, restoring rate = 33.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900, 1521.

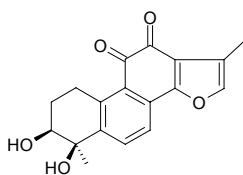


20680 Tanshindiol B

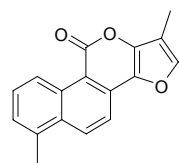
Przewaquinone D [97465-70-8] C₁₈H₁₆O₅ (312.33). Jacinth lamellar crystals (ethyl acetate), mp 210°C, [α]_D = -30.0° (c = 0.02, chloroform). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.4~1.0μg/mL); restores miocardia force after anoxia (rat, 25μmol/L, restoring rate = 34.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900.

**20681 Tanshindiol C**

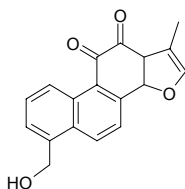
Przewaquinone E [97465-71-9] C₁₈H₁₆O₅ (312.33). Jacinth lamellar crystals (ethyl acetate), mp 222°C; 213~215°C. **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.3~0.9μg/mL); restores miocardia force after anoxia (rat, 25μmol/L, restoring rate = 27.5%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721.

**20682 Tanshinlactone**

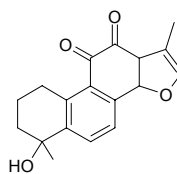
C₁₇H₁₂O₃ (264.28). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2.

**20683 Tanshinol A**

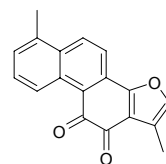
[189290-28-6] C₁₈H₁₂O₄ (292.29). Amaranth acicular crystals (dichloromethane), mp 230~235°C. **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.7~3.0μg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

**20684 Tanshinol B**

[319490-69-2] C₁₈H₁₆O₄ (296.33). Red acicular crystals (dichloromethane), mp 185~189°C, [α]_D = 0° (c = 0.1, methanol). **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.8~3.7μg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

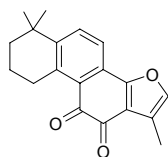
**20685 Tanshinone I**

[568-73-0] C₁₈H₁₂O₃ (276.29). mp 233~234°C. **Pharm:** Antibacterial; estrogenic activity; acetylcholinesterase (AChE) inhibitor (IC₅₀ > 50μmol/L, Argentatin A, IC₅₀ = 42.8μmol/L)^[4944]; MAO A inhibitor (hmn recombinant MAO A, IC₅₀ = 84μmol/L)^[5032]; iNOS inhibitor (RAW267.4 cells, LPS-induced, IC₅₀ = 13.5μmol/L)^[5032]; immunosuppressant (lymphocyte transformation assay control group concanavalin A, 5μg/mL, InRt = 12%, 20μg/mL, InRt = 22%, 80μg/mL, InRt = 37%, control Dexamethasone, 50μg/mL, InRt = 63%)^[4260]. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.123%^[5508]), the compound was isolated from the plant by Manzo Nakao et al. in 1941^[5505], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.16%^[5508]), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.035%^[5508]), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.002%^[5508]), JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.002%^[5508]), KA LA BA DAN SHEN *Salvia karabachensis*, LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.021%^[5508]), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.007%^[5508]), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.024%^[5508]), NI DAN SHEN *Salvia sinica* (dried root: content = 0.009%^[5508]), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.154%^[5508]), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: mean content = 0.12%^[5508]), ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.090%^[5508]). **Ref:** 4, 658, 4260, 4538, 4944, 5032, 5505, 5508.



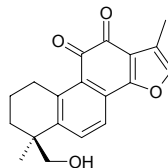
20686 Tanshinone IIa

[568-72-9] C₁₉H₁₈O₃ (294.35). mp 198~200°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 50µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 100µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 50µg/mL; hemolytic streptococcus, MIC = 12.5µg/mL); antithrombotic; used in treatment of myocardial ischemia and myocardial infarction; acetylcholinesterase (AChE) inhibitor (IC₅₀ > 140µmol/L, Argentinin A, IC₅₀ = 42.8µmol/L)^[4944]; iNOS inhibitor (RAW267.4 cells, LPS-induced, IC₅₀ > 50µmol/L)^[5032]; anti-inflammatory (NO, IL-1β, IL-6 and TNF-α production inhibitor, suppresses expression of iNOS)^[5481]; immunosuppressant (lymphocyte transformation assay, control group Concanavalin A, 5µg/mL, InRt = -24%, 20µg/mL, InRt = 35%, 80µg/mL, InRt = 46%, control Dexamethasone, 50µg/mL, InRt = 63%)^[4260]. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content scope = 0.068%~1.52%, mean content = 0.609%^[5508]), GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: mean content = 0.942%^[5508]), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.019%^[5508]), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.004%^[5508]), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.168%^[5508]), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.118%^[5508]), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.095%^[5508]), NAN OU DAN SHEN *Salvia sclarea*, NI DAN SHEN *Salvia sinica* (dried root: content = 0.002%^[5508]), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.462%^[5508]), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.193%^[5508]), ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.398%^[5508]). **Ref:** 2, 4, 658, 4260, 4538, 4909, 4944, 5032, 5481, 5501, 5508.

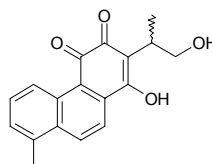
**20687 Tanshinone IIb**

C₁₉H₁₈O₄ (310.35). mp 200~204°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 25µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 50µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 25µg/mL; hemolytic streptococcus, MIC = 25µg/mL; *Staphylococcus aureus* and its drug-resistant strains). **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.020%^[5508]), GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.015%^[5508]), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.001%^[5508]), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace^[5508]), JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = trace^[5508]), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.003%^[5508]), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content =

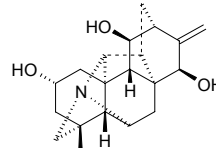
0.001%^[5508]), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.006%^[5508]), NI DAN SHEN *Salvia sinica* (dried root: content = 0.001%^[5508]), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.034%^[5508]), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.015%^[5508]), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.026%^[5508]). **Ref:** 2, 4, 658, 4909, 5508.

**20688 Tanshinone VI**

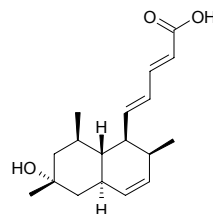
[121064-74-2] C₁₈H₁₆O₄ (296.32). Jacinth acicular crystals, mp 185~189°C (dec), [α]_D³⁰ = +47.0° (c = 0.1, chloroform). **Pharm:** Protects cardiac muscle from lack of blood; restores miocardia force after anoxia. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 932, 1162.

**20689 Tanwusine**

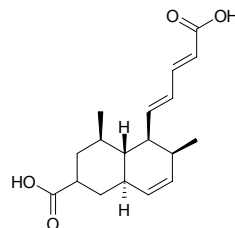
C₂₀H₂₇NO₃ (329.44). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 660.

**20690 Tanzawaic acid E**

C₁₈H₂₆O₃ (290.41). Yellowish oil, [α]_D²⁰ = +45.5° (c = 0.110, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

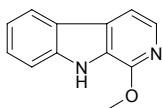
**20691 Tanzawaic acid F**

C₁₈H₂₄O₄ (304.39). Yellowish oil, [α]_D²⁰ = +10.0° (c = 0.040, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

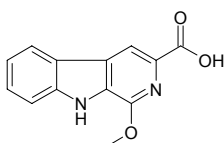


20692 Taraxacine A

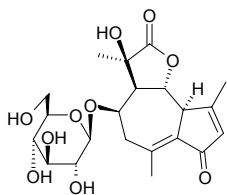
$C_{12}H_{10}N_2O$ (198.23). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20693 Taraxacine B**

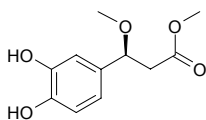
$C_{13}H_{10}N_2O_3$ (242.24). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20694 Taraxafolide**

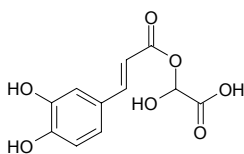
$C_{21}H_{28}O_{10}$ (440.45). Colorless oil, $[\alpha]_D = -9.47^\circ$ ($c = 0.09$, H_2O). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20695 Taraxafolin**

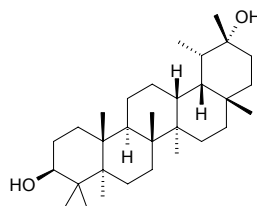
$C_{11}H_{14}O_5$ (226.23). Colorless syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20696 (+)-Taraxafolin B**

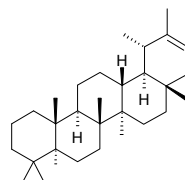
$C_{11}H_{10}O_7$ (254.20). Brown powder (MeOH). mp > 280°C, $[\alpha]_D = +130^\circ$ ($c = 0.56$, H_2O). Pharm: Antioxidant (DPPH scavenger, weaker than control Vitamin E). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20697 Taraxastane-3β,20α-diol**

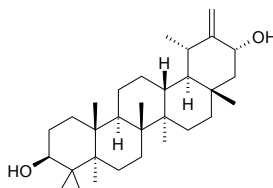
$C_{30}H_{50}O_2$ (444.75). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (104.1 \pm 4.3) \mu g/mL$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu g/mL$; B16, $IC_{50} = (79.7 \pm 5.6) \mu g/mL$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu g/mL$; HeLa, $IC_{50} = (71.8 \pm 4.4) \mu g/mL$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu g/mL$); antibacterial (*Bacillus subtilis*, IZD = $(13.7 \pm 0.7) mm$, control Chloramphenicol, IZD = $(14.5 \pm 1.1) mm$; *Escherichia coli*, IZD = $(14.8 \pm 0.8) mm$, Chloramphenicol, IZD = $(14.9 \pm 1.3) mm$; *Staphylococcus aureus*, IZD = $(14.5 \pm 1.6) mm$, Chloramphenicol, IZD = $(15.1 \pm 1.2) mm$). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20698 ψ-Taraxastene**

20-Taraxastene $C_{30}H_{50}$ (410.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 660.

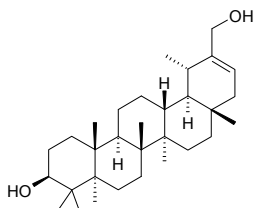
**20699 Taraxast-20(30)-ene-3β,21α-diol**

$C_{30}H_{50}O_2$ (442.73). Colorless crystals, mp 256~258°C ($CHCl_3$ -MeOH), $[\alpha]_D^{25} = +225^\circ$ ($c = 0.09$, $CHCl_3$). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (125.3 \pm 4.7) \mu g/mL$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu g/mL$; B16, $IC_{50} = (87.4 \pm 4.7) \mu g/mL$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu g/mL$; HeLa, $IC_{50} = (98.7 \pm 2.2) \mu g/mL$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu g/mL$); antibacterial (*Bacillus subtilis*, IZD = $(11.5 \pm 0.7) mm$, control Chloramphenicol, IZD = $(14.5 \pm 1.1) mm$; *Escherichia coli*, IZD = $(14.5 \pm 1.9) mm$, Chloramphenicol, IZD = $(14.9 \pm 1.3) mm$; *Staphylococcus aureus*, IZD = $(8.5 \pm 1.9) mm$, Chloramphenicol, IZD = $(15.1 \pm 1.2) mm$). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

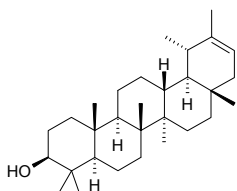


20700 Taraxast-20-ene-3 β ,30-diol

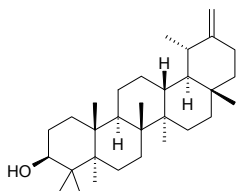
$C_{30}H_{50}O_2$ (442.73). Colorless crystals, mp 198–200°C (CHCl₃–MeOH), $[\alpha]_D^{25} = +116^\circ$ ($c = 0.35$, CHCl₃). **Pharm:** Cytotoxic (SMMC-7721, IC₅₀ = (176.3±2.4)μg/mL, control Vincristine, IC₅₀ = (63.2±1.8)μg/mL; B16, IC₅₀ = (20.1±2.6)μg/mL, Vincristine, IC₅₀ = (70.7±2.8)μg/mL; HeLa, IC₅₀ = (86.3±5.0)μg/mL, Vincristine, IC₅₀ = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (14.0±1.0)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (13.7±1.4)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (14.7±1.5)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20701 Taraxast-20-ene-3 β -ol**

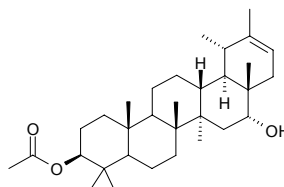
$C_{30}H_{50}O$ (426.73). **Pharm:** Cytotoxic (SMMC-7721, IC₅₀ = (131.8±1.9)μg/mL, control Vincristine, IC₅₀ = (63.2±1.8)μg/mL; B16, IC₅₀ = (86.4±4.5)μg/mL, Vincristine, IC₅₀ = (70.7±2.8)μg/mL; HeLa, IC₅₀ = (123.6±2.2)μg/mL, Vincristine, IC₅₀ = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (12.0±0.6)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (13.6±0.6)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (9.1±1.4)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20702 Taraxast-20(30)-ene-3 β -ol**

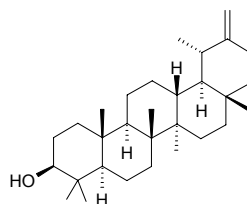
$C_{30}H_{50}O$ (426.73). **Pharm:** Cytotoxic (SMMC-7721, IC₅₀ = (142.7±3.3)μg/mL, control Vincristine, IC₅₀ = (63.2±1.8)μg/mL; B16, IC₅₀ = (98.2±3.1)μg/mL, Vincristine, IC₅₀ = (70.7±2.8)μg/mL; HeLa, IC₅₀ = (117.3±4.6)μg/mL, Vincristine, IC₅₀ = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (11.1±1.2)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (12.8±1.3)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (8.3±0.5)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20703 Taraxaster-20-en-3 β ,16 α -diol-3-acetate**

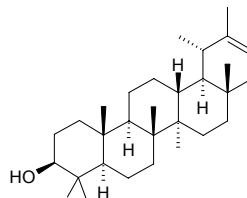
$C_{32}H_{52}O_3$ (484.77). Colorless acicular crystals (CHCl₃), mp 244–246°C, $[\alpha]_D^{20} = -32.0^\circ$ ($c = 0.1$, CHCl₃). **Source:** BAO JING KU MAI CAI *Ixeris sonchifolia*. **Ref:** 2110.

**20704 Taraxasterol**

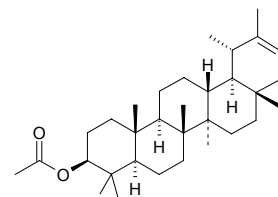
[1059-14-9] $C_{30}H_{50}O$ (426.73). **Source:** JIN FEI CAO *Inula japonica*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PU GONG YING *Taraxacum mongolicum*, XUAN FU HUA *Inula britannica*, YAO YONG PU GONG YING *Taraxacum officinale*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. **Ref:** 2, 660.

**20705 ψ -Taraxasterol**

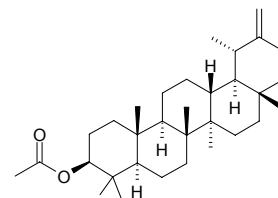
$C_{30}H_{50}O$ (426.73). mp 217–219°C. **Source:** YAO YONG PU GONG YING *Taraxacum officinale*. **Ref:** 6, 660.

**20706 ψ -Taraxasteryl acetate**

$C_{32}H_{52}O_2$ (468.77). **Source:** DA JI⁽⁴⁾ *Cirsium japonicum*, XIAO JI *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], XU DUAN JU *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*]. **Ref:** 660.

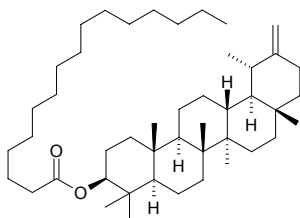
**20707 Taraxasteryl acetate**

$C_{32}H_{52}O_2$ (468.77). mp 256–257°C. **Source:** CHENG GAN CAO *Eupatorium japonicum*, DA JI⁽⁴⁾ *Cirsium japonicum*. **Ref:** 6.

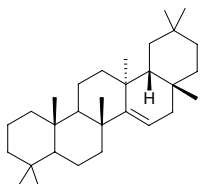


20708 Taraxasteryl palmitate

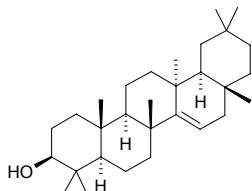
$C_{46}H_{80}O_2$ (665.15). **Source:** CHENG GAN CAO *Eupatorium japonicum*, E BU SHI CAO *Centipeda minima*, PEI LAN *Eupatorium fortunei*, ZAN SHI LONG DAN *Gentiana thunbergii*. **Ref:** 6, 660.

**20709 Taraxer-14-ene**

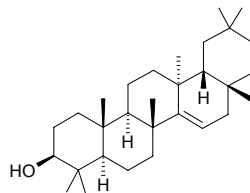
$C_{30}H_{50}$ (410.73). **Source:** DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*, SHUI LONG GU *Polypodium niponicum*. **Ref:** 660.

**20710 Taraxer-14-en-3β-ol**

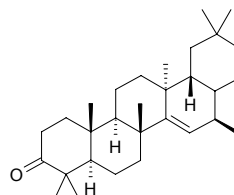
$C_{30}H_{50}O$ (426.73). mp 278~280°C, $[\alpha]_D^{20} = +2^\circ$. **Pharm:** Anti-inflammatory (*in vivo*, mouse ear edema induced by TPA, 0.5mg/ear, orl, InRt = 57.06%). **Source:** JIA MA SHU *Sterculia foetida* (leaf). **Ref:** 4924.

**20711 Taraxerol**

[127-22-0] $C_{30}H_{50}O$ (426.73). mp 282~283°C. **Pharm:** Antiulcerative; inhibits gastric acid secretion; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$)^[3057]; cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 16.6\text{mg/mL}$)^[5379]; inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 $\mu\text{mol/L}$, InRt = (-3.0±0.9)%, control Curcumin, 100 $\mu\text{mol/L}$, InRt = (62.6±1.0)%, did not affect the enzyme activity of β -hexosaminidase)^[4163]; antioxidant inactive (*in vitro*, DPPH scavenger, $IC_{50} > 500\mu\text{mol/L}$; control Vitamin E, $IC_{50} = 20.1\mu\text{mol/L}$)^[4784]. **Source:** BIAN TAO *Mangifera persiciformis*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0117%)^[5508], DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0100%)^[5508], JIN CAO *Hedyotis acutangula*, MU SHU DI SHANG BU FEN *Manihot esculenta*, QIU HUA DANG SHEN *Codonopsis subglobosa* (dried root: content = 0.0050%)^[5508], QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*], RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.00073%dw)^[4787], SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: mean content = 0.0276%)^[5508], YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.014%), YAO YONG PU GONG YING *Taraxacum officinale*, YI HE GUO *Ventilago leiocarpa* (stem)^[3057], *Diospyros* sp., *Lithocarpus* sp., *Canarium* sp. **Ref:** 2, 515, 550, 658, 660, 3057, 4163, 4787, 5379, 5508.

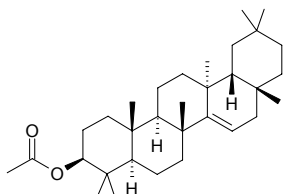
**20712 Taraxerone**

$C_{30}H_{48}O$ (424.72). mp 242~244°C. **Pharm:** Cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 25.8\text{mg/mL}$)^[5379]. **Source:** FU RONG JU GEN *Crossostephium chinense*, HUO YANG LE *Euphorbia antiquorum*, JU QU *Cichorium intybus*, MU SHU DI SHANG BU FEN *Manihot esculenta*. **Ref:** 6, 620, 5379.

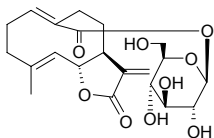


20713 Taraxeryl acetate

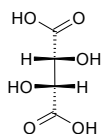
$C_{32}H_{52}O_2$ (468.77). mp 301~302°C (C_6H_6 -EtOAc), 304~305°C. Source: BI LI *Ficus pumila*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0077%^[5508]), CI SAN JIA *Acanthopanax trifoliatum*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0041%^[5508]), FU SANG YE *Hibiscus rosa-sinensis*, FU RONG JU GEN *Crossostephium chinense*, MAO LIAN HAO *Artemisia vestita*, QIU HUA DANG SHEN *Codonopsis subglobosa*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: content = 0.0075%^[5508]), XIE WEI JU *Koelipnia linearis* (aerial parts). Ref: 2, 6, 474, 660, 3912, 5508.

**20714 Taraxinic acid-1'-O-β-D-glucopyranoside**

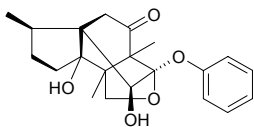
$C_{21}H_{28}O_9$ (424.45). Colorless needles (EtOH-Et₂O), mp 186~188°C, $[\alpha]_D^{22} = -57.7^\circ$ (CH_3OH , $c = 0.45$). Pharm: Antiulcer (gastrelcoma, mus *in vivo*, protects gastric mucosa, in dose 80mg/kg orl effectly inhibits stomach damaga due to aspirin). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 2216, 4488, 5357.

**20715 Tartaric acid**

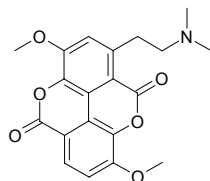
2,3-Dihydroxybutanedioic acid [526-83-0] $C_4H_6O_6$ (150.09). mp (L) 170°C. Source: CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DU ZHONG *Eucommia ulmoides*, HU ZHANG YE *Polygonum cuspidatum*, PU⁽²⁾ TAO *Vitis vinifera*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SUAN JIAO *Tamarindus indica*, *Pelargonium* sp. Ref: 2, 660.

**20716 Tashironin**

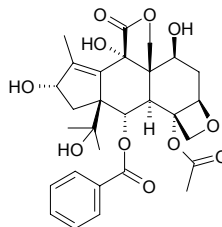
$C_{21}H_{26}O_5$ (358.44). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1~10μmol/L). Source: *Illicium merrillianum* (pericarp). Ref: 3046.

**20717 Taspine**

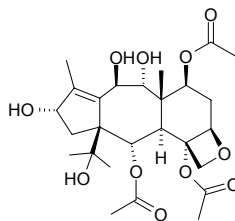
Thaspine $C_{20}H_{19}NO_6$ (369.38). Pharm: Antibacterial (*Mycobacterium tuberculosis*, EC = 1:1000000); antineoplastic (RNA tumor virus); anti-inflammatory (rat, swollen foot model caused by carrageenan); LD₅₀ (orl, chloride) = 518mg/kg. Source: DE LA KE BA DOU *Croton draconoide*, HONG MAO QI *Leontice robustum*, LAI KE BA DOU *Croton lechleri*, SI MI SHI MU DAN CAO *Leontice smirnowii*. Ref: 6, 658, 660.

**20718 Tasumatrol A**

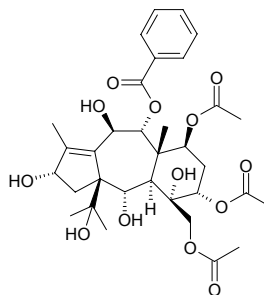
$C_{29}H_{34}O_{11}$ (558.59). Amorphous solid, $[\alpha]_D^{25} = -12^\circ$ ($c = 0.1$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

**20719 Tasumatrol B**

$C_{26}H_{38}O_{11}$ (526.59). Amorphous solid, $[\alpha]_D^{25} = -7.6^\circ$ ($c = 0.2$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

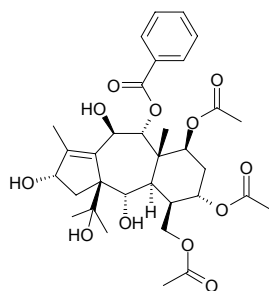
**20720 Tasumatrol E**

$C_{33}H_{44}O_{13}$ (648.71). Colorless powder, $[\alpha]_D^{25} = +36^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 100%; NCI-H226, InRt = 84.8%; A549, InRt = 91.3%; PC3, InRt = 94.7%; control Taxol, 30μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

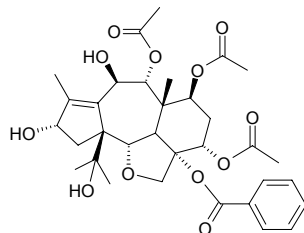


20721 Tasumatrol F

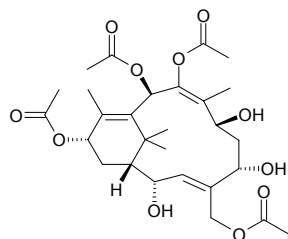
$C_{33}H_{44}O_{12}$ (632.71). Colorless powder, $[\alpha]_D^{25} = +28^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 83.0%; NCI-H226, InRt = 78.5%; A549, InRt = 72.6%; PC3, InRt = 95.0%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4800.

**20722 Tasumatrol G**

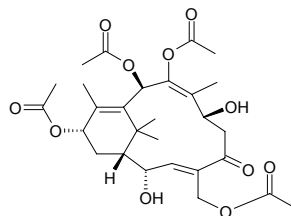
$C_{33}H_{42}O_{12}$ (630.70). Colorless powder, $[\alpha]_D^{25} = -32^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 15.3%; NCI-H226, InRt = 78.9%; A549, InRt = 24.1%; PC3, InRt = 58.9%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4800.

**20723 Tasumatrol M**

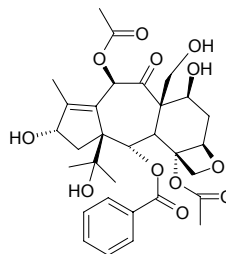
$C_{28}H_{40}O_{11}$ (552.62). Colorless powder, $[\alpha]_D^{25} = +43^\circ$ ($c = 0.2$, MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20724 Tasumatrol N**

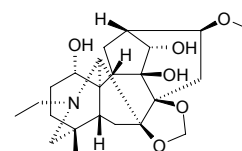
$C_{28}H_{38}O_{11}$ (550.61). Colorless powder, $[\alpha]_D^{25} = +14^\circ$ ($c = 0.2$, MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20725 Tasumatrol O**

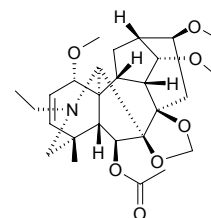
$C_{31}H_{38}O_{12}$ (602.64). Colorless powder, $[\alpha]_D^{25} = -40^\circ$ ($c = 0.2$, MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20726 Tatsidine**

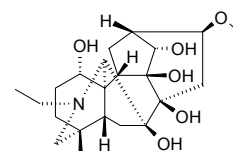
$C_{23}H_{35}NO_6$ (421.54). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

**20727 Tatsiensine**

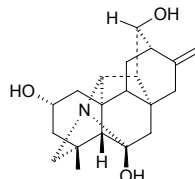
$C_{27}H_{39}NO_7$ (489.61). White amorphous powder. **Source:** QIN LING CUI QUE HUA *Delphinium giraldii*, KANG DING CUI QUE HUA *Delphinium tatsienense*, ZHAN MAO CUI QUE HUA *Delphinium kamaonense* var. *glabrescens*. **Ref:** 660, 2506.

**20728 Tatsinine**

$C_{22}H_{35}NO_6$ (409.53). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

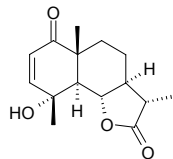
**20729 Tatsirine**

$C_{20}H_{27}NO_3$ (329.44). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

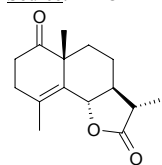


20730 Tauremisin A

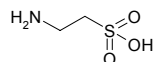
Vulgarin; Tauremisin; Judaicin $C_{15}H_{20}O_4$ (264.32). Colorless acicular crystals (ethanol), mp 174–175°C, $[\alpha]_{546nm}^{27} = +48.7^\circ$ ($c = 3.86$, chloroform). **Pharm:** Antineoplastic; cardiotoxic; cytotoxic; diuretic (rat, orl, 10mg/kg, amount of urine increases 44%); CNS activity (increases coronary flow and slows heart rate, cat and rbt, 1mg/kg iv). **Source:** NIU HAO *Artemisia taurica*, BEI AI *Artemisia vulgaris*, LU DE WEI HAO *Artemisia ludoviciana*. **Ref:** 660, 661.

**20731 Taurin**

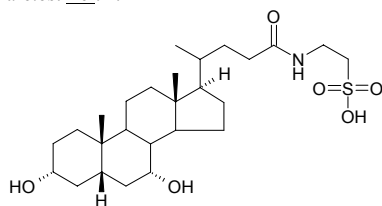
[23522-05-6] $C_{15}H_{20}O_3$ (248.32). Colorless acicular crystals, mp 110–113°C. **Source:** MAO LIAN HAO *Artemisia vestita*. **Ref:** 474.

**20732 Taurine**

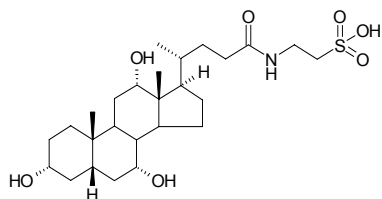
[107-35-7] $C_2H_7NO_3S$ (125.15). mp 317°C (dec), 328°C. **Pharm:** Antiarrhythmic; antibacterial (*Staphylococcus* spp.); anti-inflammatory; antipyretic; cardiotoxic; choleric; antihepatotoxic; hypoglycemic (rbt, iv; dog, orl); antihypertensive (rat, cat and rbt, injection in ventricle); skeletal muscle relaxant; antagonist to muscle rigidity. **Source:** QUAN XIE *Buthus martensi*, GOU QI ZI *Lycium chinense*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: content scope = 0.54%–0.89%^[5501]). **Ref:** 2, 658, 660, 5501.

**20733 Taurochenodeoxycholic acid**

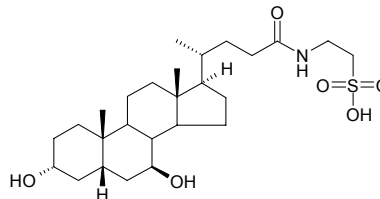
$C_{26}H_{45}NO_6S$ (499.72). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 2.

**20734 Taurocholic acid**

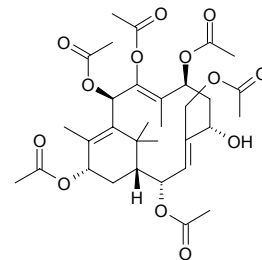
Cholaic acid; Cholytaurine; N-Choloyl-taurine [81-24-3] $C_{26}H_{45}NO_7S$ (515.72). mp 125°C (dec). **Pharm:** Lipase accelerator; Choleric (bile secretion promotor). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 2, 658.

**20735 Tauroursodeoxycholic acid**

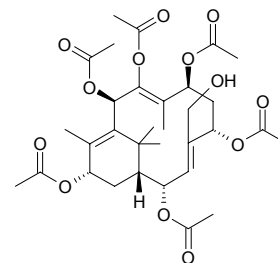
$C_{26}H_{45}NO_6S$ (499.72). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 1496, 1521.

**20736 Taxachitriene A**

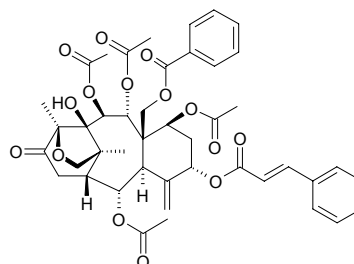
$C_{32}H_{44}O_{13}$ (636.70). mp 99–101°C, $[\alpha]_D = -9.9^\circ$ ($CHCl_3$). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20737 Taxachitriene B**

$C_{32}H_{44}O_{13}$ (636.70). mp 22.5–22.7°C, $[\alpha]_D = +29^\circ$ ($CHCl_3$). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20738 Taxacin**

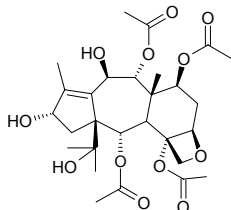
$C_{44}H_{48}O_{15}$ (816.86). **Source:** ZI SHAN *Taxus cuspidata* (seed). **Ref:** 660, 662.



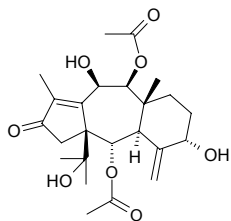
20739 Taxacustin

10,13-Deacetyl-abeo-baccatin IV $C_{28}H_{40}O_{12}$ (568.62). mp 225–227°C, $[\alpha]_D = -38.4^\circ$ (MeOH); mp 220–222°C, $[\alpha]_D = -34^\circ$ (MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu\text{g}/\text{mL}$: A498, InRt = 21.7%; NCI-H226, InRt = 19.9%; A549, InRt = 27.1%; PC3, InRt = 1.9%; control Taxol, 30 $\mu\text{g}/\text{mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800].

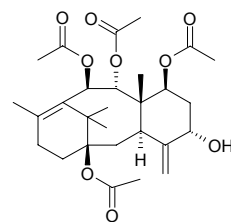
Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, ZI SHAN *Taxus cuspidata*. **Ref:** 291, 662, 4800.

**20740 Taxacustone**

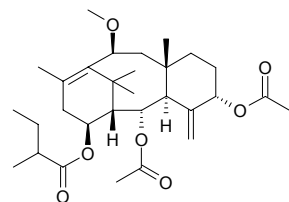
$C_{24}H_{34}O_8$ (450.53). $[\alpha]_D = -14.6^\circ$ (CHCl_3), mp 268–270°C. **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20741 Taxa-4(20),11-diene-5 α -hydroxy-1 β ,7 β ,9 α ,10 β -tetraacetate**

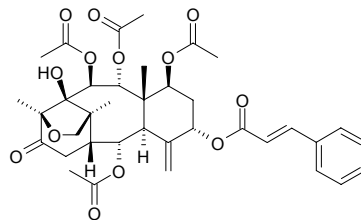
$C_{28}H_{40}O_9$ (520.63). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20742 Taxa-4(20),11-diene-10 β -methoxy-2 α ,5 α -diacetoxy-14 β -(α -methyl)butyrate**

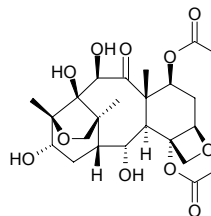
$C_{30}H_{46}O_7$ (518.70). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20743 Taxagifin**

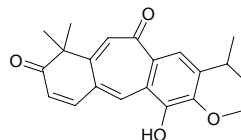
[81489-69-2] $C_{37}H_{44}O_{13}$ (696.76). Colorless needles. **Pharm:** Cytotoxic (L_{1210} , $IC_{50} = 1.3 \mu\text{g}/\text{mL}$; KB, $IC_{50} = 0.86 \mu\text{g}/\text{mL}$). **Source:** HONG DOU SHAN *Taxus chinensis*, JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), JIANG GUO ZI SHAN *Taxus baccata*, ZI SHAN *Taxus cuspidata* (seed). **Ref:** 660, 662, 1775, 3958.

**20744 Taxagifin III**

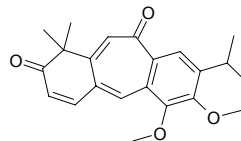
$C_{24}H_{34}O_{11}$ (498.53). $[\alpha]_D = +31.4^\circ$ (MeOH), mp 246–247°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20745 Taxamairin A**

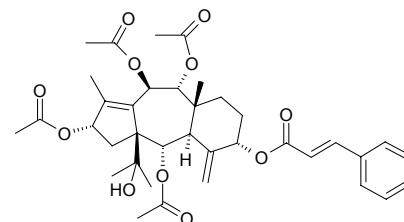
[110300-76-0] $C_{21}H_{22}O_4$ (338.40). Golden crystals (ethanol), mp 223–224°C. **Pharm:** Antineoplastic (hepatocarcinoma, $IC_{50} = 30.21 \mu\text{g}/\text{mL}$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

**20746 Taxamairin B**

[110300-77-1] $C_{22}H_{24}O_4$ (352.43). mp 138–139°C (ethanol). **Pharm:** Antineoplastic (hepatocarcinoma, $IC_{50} = 26.78 \mu\text{g}/\text{mL}$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

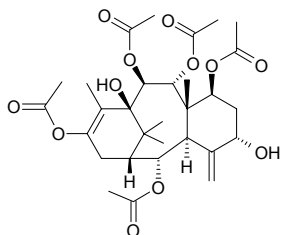
**20747 Taxamedin A**

$C_{37}H_{46}O_{11}$ (666.77). **Source:** ZA JIAO JIE ZHI HONG DOU SHAN *Taxus media*. **Ref:** 662.

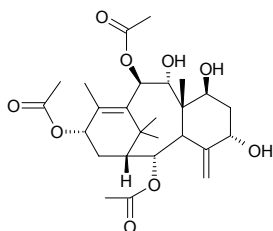


20748 Taxane 1

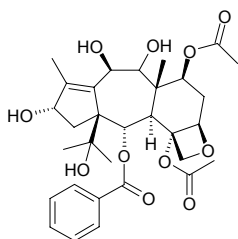
2,7,9,10,13-Pentaacetyl-4(20),12-taxadiene-2,5,7,9,10,11,13-heptol
[247116-45-6] C₃₀H₄₂O₁₂ (594.66). [Source](#): JIA NA DA HONG DOU SHAN
Taxus canadensis. [Ref](#): 694.

**20749 Taxane 2**

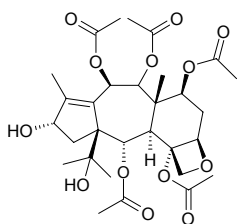
2,10,13-Triacetyl-4(20),11-taxadiene-2,5,7,9,10,13-hexol [247116-46-7]
C₂₆H₃₈O₉ (494.59). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*
canadensis. [Ref](#): 694.

**20750 Taxane 3**

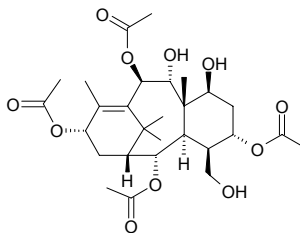
Taxuspinanane F [205436-31-3] C₃₁H₄₀O₁₁ (588.66). [Source](#): JIA NA DA
HONG DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20751 Taxane 4**

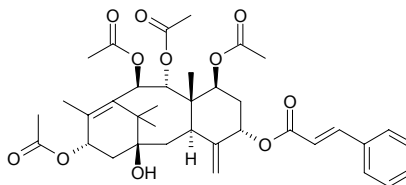
Taxayuntin H [214211-87-7] C₃₀H₄₂O₁₃ (610.66). [Source](#): JIA NA DA HONG
DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20752 Taxane 5**

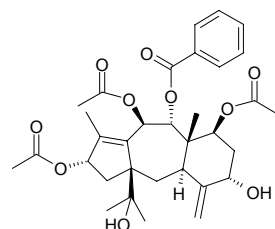
2,5,10,13-Tetraacetyl-11-taxene-2,5,7,9,10,13,20-heptol [247116-47-8]
C₂₈H₄₂O₁₁ (554.64). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*
canadensis. [Ref](#): 694.

**20753 Taxawallin A**

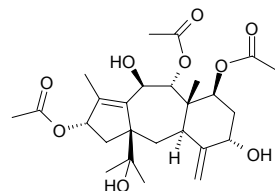
1-Hydroxy-2-deacetoxytaxinine J C₃₇H₄₆O₁₁ (666.77). mp 122~124°C, [α]_D =
+64° (CHCl₃), [α]_D = +60.45° (CHCl₃), [Source](#): XI MA LA YA HONG DOU
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20754 Taxawallin D**

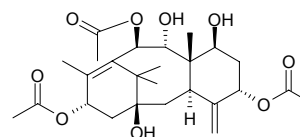
9-Benzoyl-2-deacetoxy-9-deacetyl-10-debenzoyl-10,13-diacetyltaxchinin A
C₃₃H₄₂O₁₀ (598.70). mp 122~124°C. [Source](#): XI MA LA YA HONG DOU
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20755 Taxawallin F**

13-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A C₂₆H₃₈O₉ (494.59). mp
124~125°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus wallichiana*.
[Ref](#): 662.

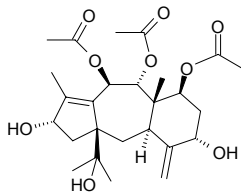
**20756 Taxawallin G**

1β,7β,9α-Trihydroxy-5α,10β,13α-triacetoxytaxa-4(20),11-diene C₂₆H₃₈O₉
(494.59). mp 270°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus*
wallichiana. [Ref](#): 662.

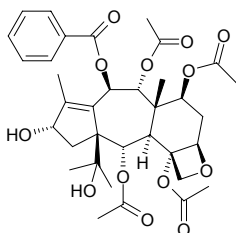


20757 Taxawallin H

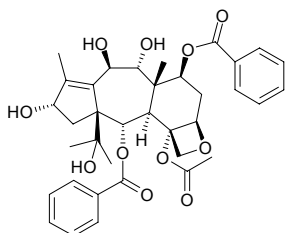
10-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A $C_{26}H_{38}O_9$ (494.59). mp 72~74°C. Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**20758 Taxayunnansin A**

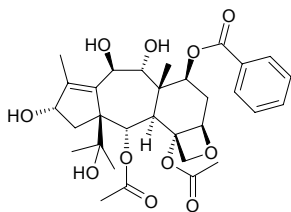
Taxayuntin $C_{35}H_{44}O_{13}$ (672.73). Colorless massive crystals, mp 249~250°C (Me₂CO), $[\alpha]_D^{27} = -53.3^\circ$ (methanol), mp 225~226°C, $[\alpha]_D = -38^\circ$ (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 300, 662.

**20759 Taxayuntin A**

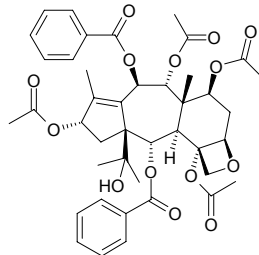
2 α ,7 β ,9 α -Triacetyl-2 α ,7 β -dibenzoyl-10 β -debenzoyltaxayuntin $C_{36}H_{42}O_{11}$ (650.73). White powder, mp 160~163°C, $[\alpha]_D^{22} = \pm 0^\circ$ ($c = 0.05$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20760 Taxayuntin B**

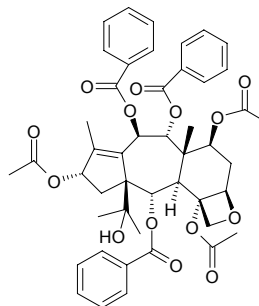
2 α -Debenzoyl-2 α -acetyl taxayuntin $C_{31}H_{40}O_{11}$ (588.66). White acicular crystals, mp 225~228°C (methanol), $[\alpha]_D^{12} = +25.1^\circ$ ($c = 0.13$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20761 Taxayuntin C**

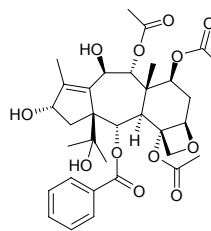
2 α -Deacetyl-2 α -benzoyl-13 α -acetyltaxayuntin $C_{42}H_{48}O_{14}$ (776.84). White granular crystals, mp 226~230°C (Abs ethanol), $[\alpha]_D^{17} = -36.2^\circ$ ($c = 0.17$, methanol). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662, 2488.

**20762 Taxayuntin D**

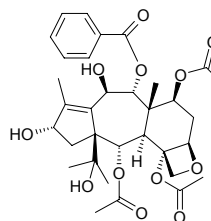
9 α -Deacetyl-9 α -debenzoyl taxayuntin; Taxchinin C [152110-14-0] $C_{47}H_{50}O_{14}$ (838.91). White granular crystals, mp 210~214°C (methanol), $[\alpha]_D^{17} = -40.4^\circ$ ($c = 0.16$, methanol); $[\alpha]_D = -45.6^\circ$ (CH₂Cl₂), mp 212~214°C. Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 291, 383, 662.

**20763 Taxayuntin E**

$C_{33}H_{42}O_{12}$ (630.70). mp 185~186°C, $[\alpha]_D = +8.7^\circ$ (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**20764 Taxayuntin F**

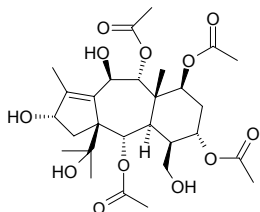
Taxchinin L $C_{33}H_{42}O_{12}$ (630.70). mp 185~186°C, $[\alpha]_D = -19.0^\circ$ (MeOH), mp 263~264°C, $[\alpha]_D = -40^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



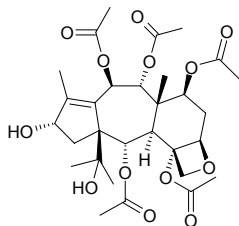
20765 Taxayuntin G

$C_{28}H_{42}O_{12}$ (570.64). mp 205–206°C, $[\alpha]_D = +56^\circ$ (MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 21.2%; NCI-H226, InRt = 29.3%; A549, InRt = 0%; PC3, InRt = 1.4%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800].

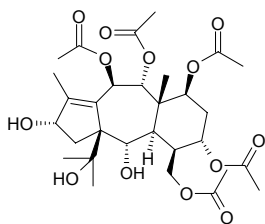
Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800], YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662, 4800.

**20766 Taxayuntin H**

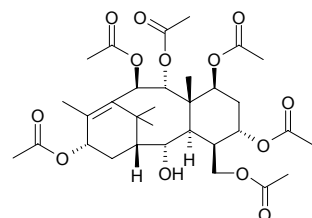
$C_{30}H_{42}O_{13}$ (610.66). mp 249–250°C, $[\alpha]_D = -66.7^\circ$ (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20767 Taxayuntin J**

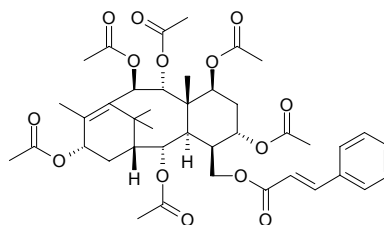
$C_{30}H_{44}O_{13}$ (612.68). mp 125–127°C, $[\alpha]_D = -54^\circ$ (MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20768 Taxchin A**

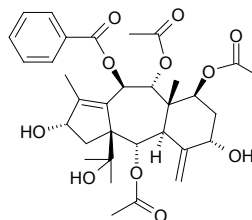
$C_{32}H_{46}O_{13}$ (638.72). mp 284–286°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20769 Taxchin B**

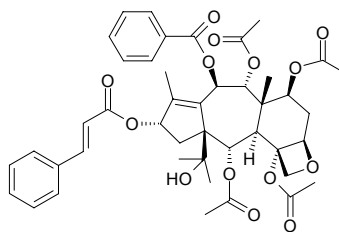
$C_{41}H_{52}O_{14}$ (768.86). mp 124–126°C, $[\alpha]_D = +39.74^\circ$ (CHCl₃). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20770 Taxchinin A**

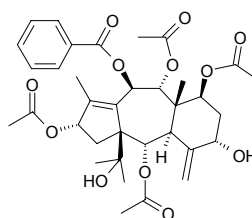
2 α -Acetoxybrevifoliol [158243-08-4] $C_{33}H_{42}O_{11}$ (614.70). mp 208–210°C, $[\alpha]_D = -34.62^\circ$ (CH₂Cl₂); mp 198°C, $[\alpha]_D = -24^\circ$ (CHCl₃). **Source:** HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20771 Taxchinin B**

[152110-13-9] $C_{44}H_{50}O_{14}$ (802.88). mp 176–178°C, $[\alpha]_D = +7.40^\circ$ (CH₂Cl₂). **Pharm:** Cytotoxic (L₁₂₁₀, IC₅₀ = 3.8 μ g/mL). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662, 1775.

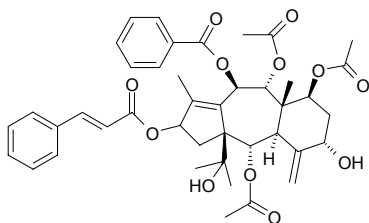
**20772 Taxchinin D**

$C_{35}H_{44}O_{12}$ (656.73). mp 138–141°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

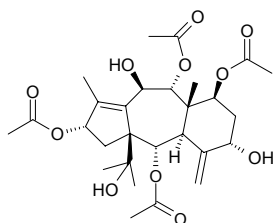


20773 Taxchinin E

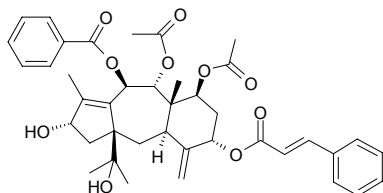
$C_{42}H_{48}O_{12}$ (744.84). mp 134~136°C, $[\alpha]_D = -17.49^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20774 Taxchinin G**

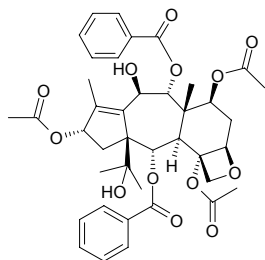
$C_{28}H_{40}O_{11}$ (552.62). mp 140~143°C. Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20775 Taxchinin H**

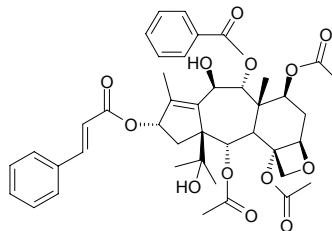
Taxawallin C $C_{40}H_{46}O_{10}$ (686.81). mp 115~118°C, $[\alpha]_D = -65.29^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20776 Taxchinin I**

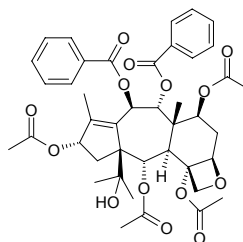
9-*O*-Benzoyl-9,10-dide-*O*-acetyl-11(15→1)-abeo-baccatin VI $C_{40}H_{46}O_{13}$ (734.80). mp 238°C, $[\alpha]_D = -30.5^\circ$ ($CHCl_3$), mp 235~237°C, $[\alpha]_D = -6.08^\circ$ ($CHCl_3$). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20777 Taxchinin J**

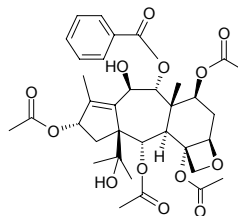
$C_{42}H_{48}O_{13}$ (760.84). mp 238~240°C, $[\alpha]_D = +23.36^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20778 Taxchinin K**

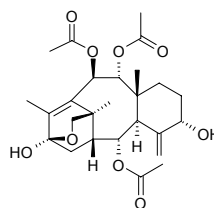
$C_{42}H_{48}O_{14}$ (776.84). mp 217~219°C, $[\alpha]_D = -30.0^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20779 Taxchinin M**

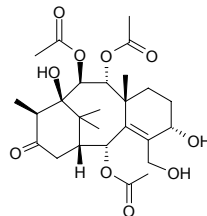
$C_{35}H_{44}O_{13}$ (672.73). mp 239~242°C, $[\alpha]_D = -19.6^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**20780 Taxezopidine A**

$C_{26}H_{36}O_9$ (492.57). $[\alpha]_D = +5^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

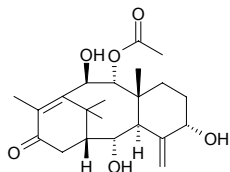
**20781 Taxezopidine B**

$C_{26}H_{38}O_{10}$ (510.59). $[\alpha]_D = +10.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

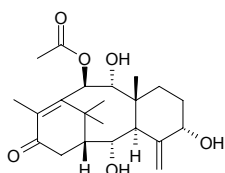


20782 Taxezopidine C

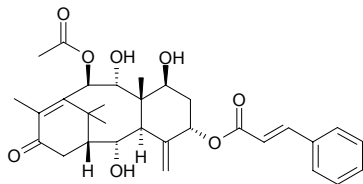
$C_{22}H_{32}O_6$ (392.50). $[\alpha]_D = +17.3^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*.
Ref: 662.

**20783 Taxezopidine D**

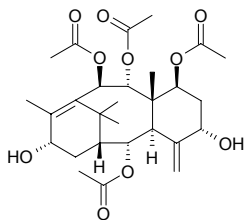
$C_{22}H_{32}O_6$ (392.50). $[\alpha]_D = +8.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*.
Ref: 662.

**20784 Taxezopidine E**

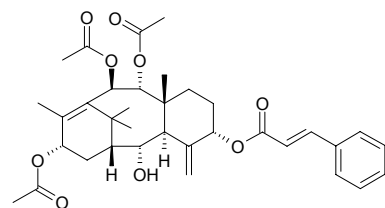
$C_{31}H_{38}O_8$ (538.64). $[\alpha]_D = +24^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*.
Ref: 662.

**20785 Taxezopidine F**

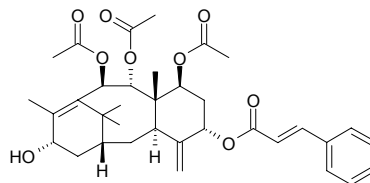
$C_{28}H_{40}O_{10}$ (536.63). $[\alpha]_D = -13.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20786 Taxezopidine G**

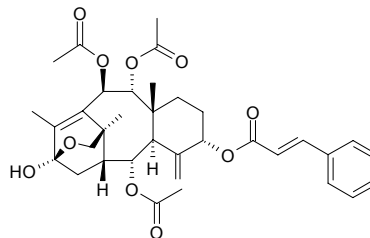
$C_{35}H_{44}O_9$ (608.74). $[\alpha]_D = +25.2^\circ$ ($CHCl_3$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20787 Taxezopidine H**

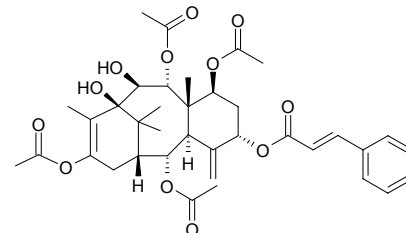
$C_{35}H_{44}O_9$ (608.74). $[\alpha]_D = +5.6^\circ$ ($CHCl_3$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20788 Taxezopidine J**

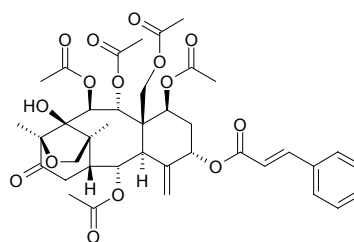
$C_{35}H_{42}O_{10}$ (622.72). $[\alpha]_D = +48^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*.
Ref: 662.

**20789 Taxezopidine K**

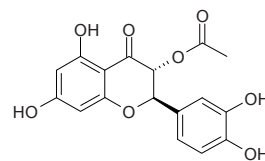
$C_{37}H_{46}O_{12}$ (682.77). $[\alpha]_D = +53^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*.
Ref: 662.

**20790 Taxezopidine L**

19-Acetoxytaxagifine $C_{39}H_{46}O_{15}$ (754.79). mp 106~108°C, $[\alpha]_D = +94^\circ$ ($CHCl_3$), $[\alpha]_D = -2.4^\circ$ (MeOH). Source: HONG DOU SHAN *Taxus chinensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

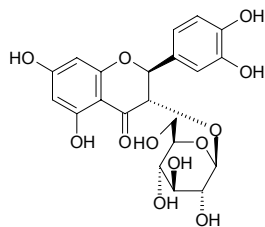
**20791 Taxifolin 3-O-acetate**

$C_{17}H_{14}O_8$ (346.30). Pharm: Sweetener. Source: NIAN XING TU MU XIANG *Inula viscosa*. Ref: 658.

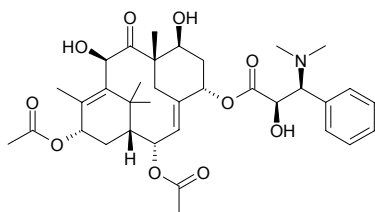


20792 (2S,3S)-(-)-Taxifolin-3-O-β-D-glucopyranoside

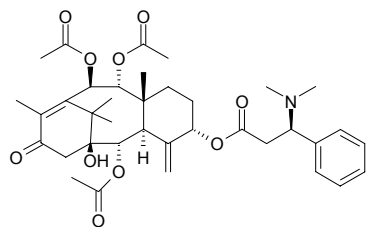
$C_{21}H_{22}O_{12}$ (466.40). White acicular crystals, mp 166~168°C, $[\alpha]_D^{14} = -119.4^\circ$ ($c = 0.5$, methanol). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 152.

**20793 Taxine A**

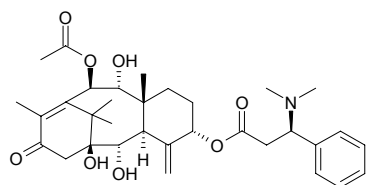
[1361-49-5] $C_{35}H_{47}NO_{10}$ (641.77). $[\alpha]_D = -140^\circ$ ($CHCl_3$), mp 204~206°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**20794 Taxine A'**

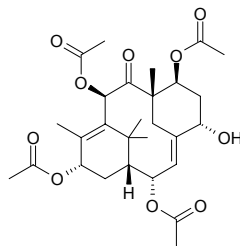
Diacetyltaxine B $C_{37}H_{49}NO_{10}$ (667.80). mp 121~124°C. Source: ZI SHAN *Taxus cuspidata*. Ref: 6.

**20795 Taxine B**

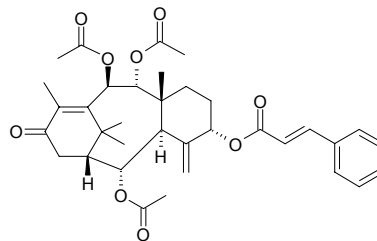
Taxine I $C_{33}H_{45}NO_8$ (583.73). mp 115°C, mp 113°C, $[\alpha]_D = +119^\circ$ ($CHCl_3$), $[\alpha]_D = +116^\circ$ (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20796 Taxine B'**

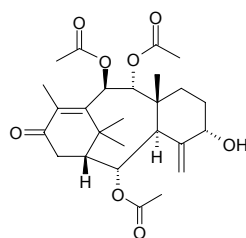
$C_{28}H_{38}O_{10}$ (534.61). mp 166~167°C, $[\alpha]_D = -239.5^\circ$ ($CHCl_3$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.00005%dw)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4666.

**20797 Taxinine**

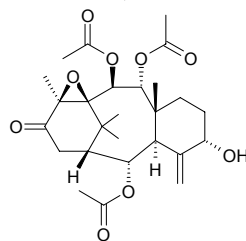
O-Cinnamoyltaxicin II triacetate [3835-52-7] $C_{35}H_{42}O_9$ (606.72). mp 265~267°C, mp 266~267°C, mp 264~265°C, mp 237~239°C, $[\alpha]_D = +137^\circ$ ($CHCl_3$), $[\alpha]_D = +128^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus, L_{1210} , 10μg/mL InRt = 10.5%; hmn, KB, 10μg/mL InRt = 4.8%). Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[4611], ZI SHAN *Taxus cuspidata*. Ref: 6, 291, 662, 1776, 4611.

**20798 Taxinine A**

[18530-09-1] $C_{26}H_{36}O_8$ (476.57). mp 254~255°C, $[\alpha]_D = +106^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus L_{1210} , $IC_{50} = 8.9\mu g/mL$, hmn KB, 10μg/mL InRt = 30.7%). Source: ZI SHAN *Taxus cuspidata*, HONG DOU SHAN *Taxus chinensis*. Ref: 6, 662, 1776.

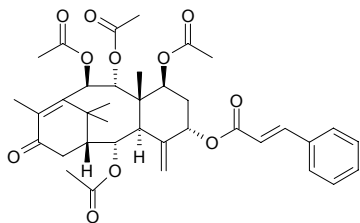
**20799 Taxinine A 11,12-epoxide**

5α-Hydroxy-2α,9α,10β-triacetoxy-11,12-epoxy-taxa-4(20)-en-13-one $C_{26}H_{36}O_9$ (492.57). White amorphous solid, mp 162~163°C, $[\alpha]_D^{17} = +7.5^\circ$ ($c = 0.06$, MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 2415.

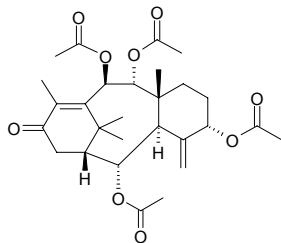


20800 Taxinine B

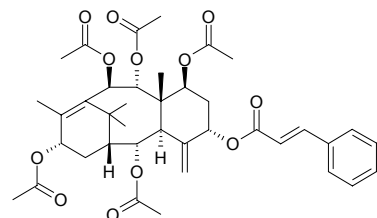
7 β -Acetate-*O*-taxinine A [18457-44-8] C₃₇H₄₄O₁₁ (664.76). mp 261~262°C, mp 265~266°C, [α]_D = +84.4° (CHCl₃), [α]_D = +93.8° (CHCl₃). **Pharm:** Cytotoxic (mus, L₁₂₁₀, 10 μ g/mL InRt = 45.9%; hmn, KB, 10 μ g/mL InRt = 28.8%; inhibits Ca²⁺-induced depolymerization of tubulin to overcome resistance of cancer cells). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00001%dw)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079,4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1776, 3079, 4611, 4666.

**20801 Taxinine H**

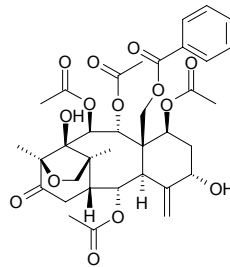
C₂₈H₃₈O₉ (518.61). mp 166~167°C, [α]_D = +96° (CHCl₃). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 6, 662.

**20802 Taxinine J**

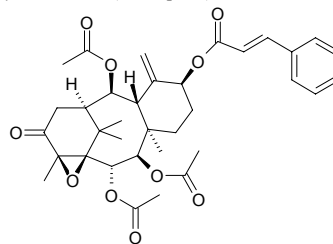
[18457-46-0] C₃₉H₄₈O₁₂ (708.81). Colorless crystals (acetone), mp 260~262°C, [α]_D¹⁴ = -37.7° (*c* = 0.09, chloroform); [α]_D²⁸ = +36.0° (*c* = 1.1, chloroform). **Pharm:** Antineoplastic (hepatocarcinoma). **Source:** HONG DOU SHAN *Taxus chinensis*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*^[4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 900, 4611.

**20803 Taxinine M**

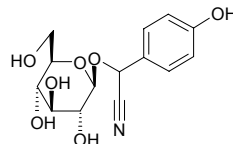
[135730-55-1] C₃₅H₄₂O₁₄ (686.72). [α]_D = -24° (MeOH). **Pharm:** Cytotoxic (BST, LC₅₀ = 620 μ g/mL; KB, IC₅₀ = 9.4 μ g/mL); cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 24.3%; NCI-H226, InRt = 11.1%; A549, InRt = 14.6%; PC3, InRt = 0%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800]: yield = 0.0021%dw^[4666]. **Ref:** 662, 1775, 4666, 4800.

**20804 Taxinine N,N-4**

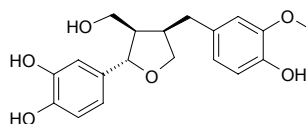
C₃₅H₄₂O₁₀ (622.72). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.

**20805 Taxiphyllin**

Phyllanthin; Phyllanthoside C₁₄H₁₇NO₇ (311.29). **Source:** HAI JIU CAI *Triglochin maritimum*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], *Taxus* spp. **Ref:** 660.

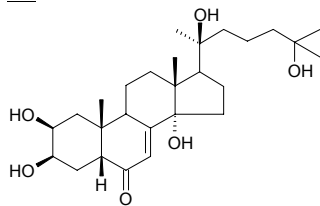
**20806 Taxiresinol**

[40951-69-7] C₁₉H₂₂O₆ (346.38). **Pharm:** Hepatoprotective (mouse, 50mg/kg, TNF- α level = (264.1 \pm 103.4)pg/mL, 10mg/kg, TNF- α level = (350.0 \pm 194.2)pg/mL)^[4917]; antioxidant (DPPH free radical scavenger, IC₅₀ = 18.4 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L)^[5407]; NO production inhibitor (IC₅₀ = 163 μ mol/L, control *L*-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.10%dw). **Ref:** 1521, 4661, 4917, 5407.

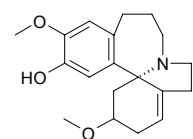


20807 Taxisterone

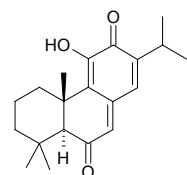
22-Deoxyecdysterone C₂₇H₄₄O₆ (464.65). Source: ZI SHAN *Taxus cuspidata*. Ref: 660.

**20808 Taxodine**

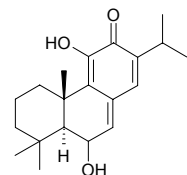
C₁₉H₂₅NO₃ (315.42). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**20809 Taxodione**

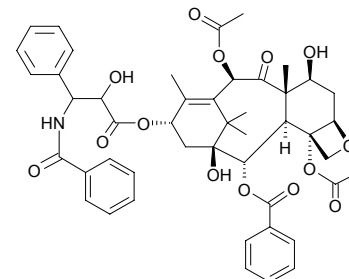
[19026-31-4] C₂₀H₂₆O₃ (314.43). mp 115~116°C, [α]_D²⁵ = +525° (c = 1.0, CHCl₃). Pharm: Antineoplastic (rat W₂₅₆, 50mg/kg, InRt = 93%); cytotoxic (KB, ED₅₀ = 3μg/mL); cytotoxic (Col2, IC₅₀ = 0.7μg/mL, control Ellipticine, IC₅₀ = 0.3μg/mL; LNCaP, IC₅₀ = 0.7μg/mL, Ellipticine, IC₅₀ = 0.8μg/mL; P₃₈₈, IC₅₀ = 0.3μg/mL, Ellipticine, IC₅₀ = 0.1μg/mL; A2780, IC₅₀ = 9.0μg/mL, control Actinomycin D, IC₅₀ = 0.001μg/mL; KB-VI, IC₅₀ = 4.1μg/mL, Ellipticine, IC₅₀ = 0.3μg/mL; KB, IC₅₀ = 3.4μg/mL, Ellipticine, IC₅₀ = 0.04μg/mL; Lu1, IC₅₀ = 5.1μg/mL, Ellipticine, IC₅₀ = 0.02μg/mL; BC1, IC₅₀ = 1.2μg/mL, Ellipticine, IC₅₀ = 0.2μg/mL)^[5400]. Source: LUO YU SHAN *Taxodium distichum*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5, 658, 5400.

**20810 Taxodone**

[19039-02-2] C₂₀H₂₈O₃ (316.44). mp 164~166°C. Pharm: Antineoplastic (rat W₂₅₆, 25mg/kg, InRt = 91%); cytotoxic (KB, ED₅₀ = 1.8μg/mL or 0.6μg/mL). Source: LUO YU SHAN *Taxodium distichum*. Ref: 5, 658.

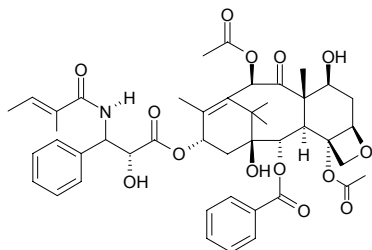
**20811 Taxol**

Paclitaxel [33069-62-4] C₄₇H₅₁NO₁₄ (853.93). [α]_D = -49° (MeOH), mp 213~216°C, [α]_D = -54° (MeOH), mp 194~197°C, [α]_D = -42° (MeOH), mp 198~203°C, [α]_D = -54° (MeOH), mp 205~208°C, [α]_D = -21° (pyridine). Pharm: Cytotoxic (MCF7, GI₅₀ = (0.102±0.009)μg/mL; MDA-MB-231, GI₅₀ = (0.099±0.001)μg/mL; OVCAR-3, GI₅₀ = (0.028±0.006)μg/mL; A549, GI₅₀ = (0.030±0.001)μg/mL; HT29, GI₅₀ = (0.032±0.003)μg/mL; ACHN, GI₅₀ = (0.088±0.004)μg/mL); cytotoxic (*in vitro*, PC3, IC₅₀ = 0.016μmol/L; Hep3B, IC₅₀ = 0.031μmol/L)^[3010]; cytotoxic (hmn PC3 tumor cells, IC₅₀ = 0.16μmol/L)^[4258]; cytotoxic (*in vitro*, KB, IC₅₀ = 0.001μg/mL; Hepa59T/VGH, IC₅₀ = 0.001μg/mL)^[4666]; antiproliferative and cytotoxic (*in vitro*, L-929, GI₅₀ = 0.1μg/mL; K562, GI₅₀ = 0.01μg/mL; HeLa, CC₅₀ = 0.01μg/mL)^[4770]; cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]; cytotoxic (Lu1, ED₅₀ = 0.002μg/mL, Col2, ED₅₀ = 0.003μg/mL, KB, ED₅₀ = 0.0005μg/mL, LNCaP, ED₅₀ = 0.001μg/mL, hTERT-RPE1, ED₅₀ = 0.004μg/mL, HUVEC, ED₅₀ = 0.008μg/mL)^[4991]; cytotoxic (HL-60, IC₅₀ = (4.1±1.1)×10⁻⁴μmol/L; MCF7, IC₅₀ = (15.3±2.6)μmol/L; Bel7402, IC₅₀ = (0.3±0.1)μmol/L; HeLa, IC₅₀ = (33.0±6.1)μmol/L; KB, IC₅₀ > 100μmol/L)^[5015]; apoptosis inducer (HL-60 cells, 15μmol/L, control sub-G1 population = (5.4±3.2)%, sub-G1 population = (40.5±0.2)%)^[5015]; cytotoxic (Bel7402 cancer cell, IC₅₀ = (0.3±0.1)μmol/L; HeLa, IC₅₀ = (33.0±6.1)μmol/L; HL-60, IC₅₀ = (4.1±1.1)×10⁻⁴μmol/L; MCF7, IC₅₀ = (15.3±2.6)μmol/L)^[5410]; cytotoxic (K562, GI₅₀ > 100ng/mL; HL-60, GI₅₀ = 77ng/mL; DU145, GI₅₀ = 40ng/mL; PC3, GI₅₀ = 44ng/mL; A549, GI₅₀ = 30ng/mL; NCI-H460, GI₅₀ = 20ng/mL; MCF7, GI₅₀ = 80ng/mL; MDA-MB-231, GI₅₀ = 40ng/mL; ACHN, GI₅₀ > 100ng/mL; UO-31, GI₅₀ > 100ng/mL; HT29, GI₅₀ = 40ng/mL; Colon205, GI₅₀ = 40ng/mL)^[5450]; cytotoxic (Bel7402 cell lines, IC₅₀ = 0.52μmol/L; BGC₈₂₃, IC₅₀ > 500μmol/L; HeLa, IC₅₀ = 34.25μmol/L; HL-60, IC₅₀ = 3.5×10⁻⁴μmol/L; MCF7, IC₅₀ = 12.64μmol/L)^[5454]; antineoplastic (used in treatment of ovarian cancer, breast cancer, lung cancer, and nasopharyngeal carcinoma). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia* (bark: content = 0.0630%, needle leaf: content = 0.0110%)^[5508], HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mamui*], HONG DOU SHAN *Taxus chinensis* (branch-leaf: content = 0.0025%)^[5508], JIANG GUO ZI SHAN *Taxus baccata* (branch-leaf: content = 0.0043%)^[5508], JIE ZHI HONG DOU SHAN *Taxus media* (bark: content = 0.0350%, needle leaf: content = 0.0130%)^[5508], MEI LI HONG DOU SHAN *Taxus mairei* (branch-leaf: content = 0.0030%)^[5508], SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00009%dw)^[4666], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (branch-leaf: content = 0.0100%)^[5508], ZI SHAN *Taxus cuspidata* (branch-leaf: content = 0.0038%)^[5508]. Ref: 5, 6, 202, 662, 3010, 4258, 4666, 4770, 4800, 4991, 4992, 5015, 5410, 5450, 5454, 5508.

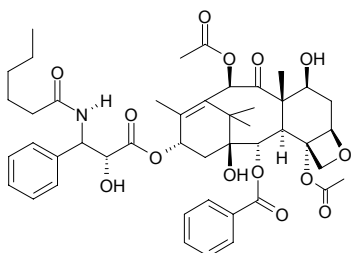


20812 Taxol B

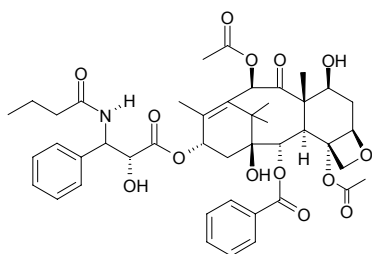
Cephalomannine [71610-00-9] $C_{45}H_{53}NO_{14}$ (831.92). $[\alpha]_D = -41^\circ$ (MeOH), mp 181~184°C, $[\alpha]_D = -41^\circ$ (MeOH), mp 184~186°C, mp 180~183°C. Source: JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563, 662.

**20813 Taxol C**

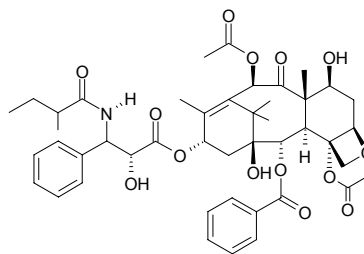
Taxuyunnanine A; *N*-Debenzoyl-*N*-hexanoyltaxol [153415-45-3] $C_{46}H_{57}NO_{14}$ (847.97). Yellow amorphous solid, mp 150°C (methanol), $[\alpha]_D^{14} = -107^\circ$ ($c = 0.054$, methanol), mp 204~205°C, $[\alpha]_D^{20} = -64.7^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Cytotoxic (in NCI hm clonal selection, showing strongly selective cytotoxic, especially against parvicellular and non-parvicellular lung cancer; L_{1210} , $IC_{50} = 0.21 \mu\text{g/mL}$; KB, $IC_{50} = 0.0066 \mu\text{g/mL}$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662, 900.

**20814 Taxol D**

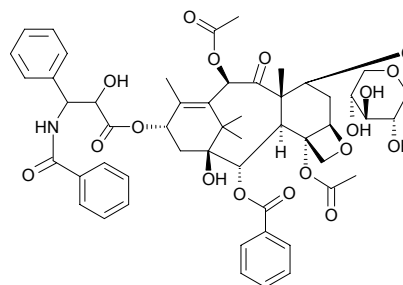
Taxcultine; *N*-Debenzoyl-*N*-butanoyltaxol [153415-46-4] $C_{44}H_{53}NO_{14}$ (819.91). $[\alpha]_D = -7.54^\circ$ (MeOH), mp 155°C, $[\alpha]_D = -16^\circ$ ($CHCl_3$), mp 206~208°C. Pharm: Cytotoxic (L_{1210} , $IC_{50} = 0.21 \mu\text{g/mL}$; KB, $IC_{50} = 0.0016 \mu\text{g/mL}$); antineoplastic (ox brain, tubulin assay, $ED_{50} = 2.35 \mu\text{g/mL}$). Source: JIANG GUO ZI SHAN *Taxus baccata*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662, 1649, 1775.

**20815 Taxoline**

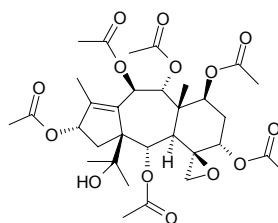
[213539-42-5] $C_{45}H_{55}NO_{14}$ (833.94). White powdery crystals, mp 184~186°C. Pharm: Antineoplastic (P_{388} , inhibits DNA synthesize, $ID_{50} = 1.12 \mu\text{g/mL}$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 813.

**20816 Taxol C-7-xylose**

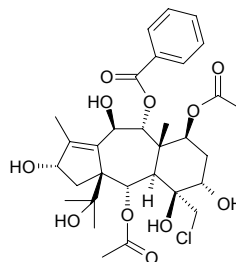
$C_{52}H_{59}NO_{18}$ (986.05). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563.

**20817 Taxuchin A**

$C_{32}H_{44}O_{14}$ (652.70). mp 248~250°C, $[\alpha]_D = -64.8^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

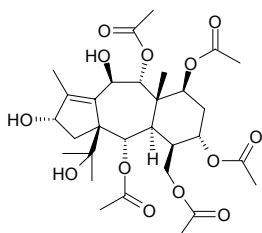
**20818 Taxuchin B**

$C_{31}H_{41}ClO_{11}$ (625.12). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

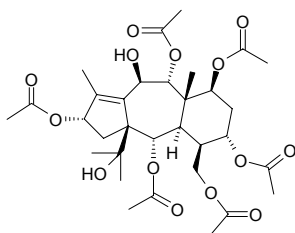


20819 Taxumain A

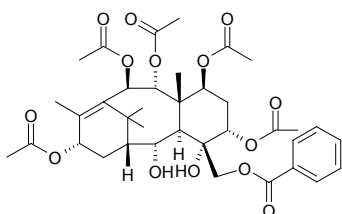
$C_{30}H_{44}O_{13}$ (612.68). mp 284–286°C, $[\alpha]_D = -11.1^\circ$ ($CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20820 Taxumain B**

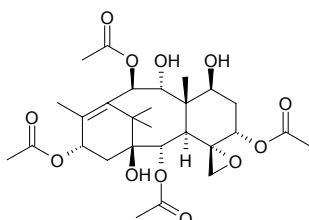
$C_{32}H_{46}O_{14}$ (654.72). $[\alpha]_D = -15.2^\circ$ ($CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20821 Taxumairol A**

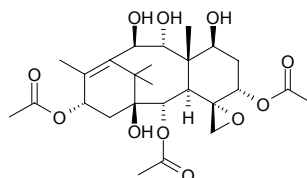
5 α ,7 β ,9 α ,10 β ,13 α -Pentaacetoxy-20(benzoyloxy)-2 α ,4 α -dihydroxytax-11-ene $C_{37}H_{48}O_{14}$ (716.79). $[\alpha]_D = +46^\circ$ (MeOH). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20822 Taxumairol B**

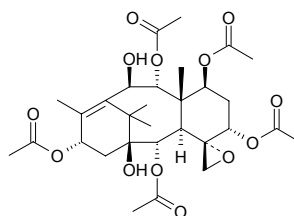
$C_{28}H_{40}O_{12}$ (568.62). $[\alpha]_D = +65.84^\circ$ ($CHCl_3$), $[\alpha]_D = +15^\circ$ (MeOH). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*, MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00060%dw)^[4666]. Ref: 662, 4666.

**20823 Taxumairol C**

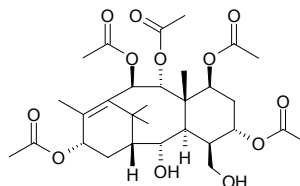
7 β ,9 α ,10 β -Triacetetyl-1 β -hydroxybaccatin I $C_{28}H_{38}O_{11}$ (526.59). $[\alpha]_D = +78^\circ$ ($CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00016%dw)^[4666]. Ref: 662, 4666.

**20824 Taxumairol D**

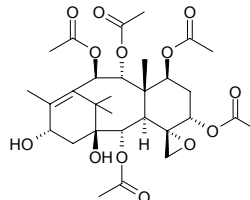
1 β -Hydroxy-10-deacetyl baccatin I $C_{30}H_{42}O_{13}$ (610.66). $[\alpha]_D = +75^\circ$ ($CHCl_3$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20825 Taxumairol E**

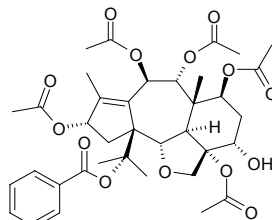
5 α ,7 β ,9 α ,10 β ,13 α -Pentaacetoxy-2 α ,20-dihydroxytax-11-ene $C_{30}H_{44}O_{12}$ (596.68). $[\alpha]_D = +54.9^\circ$ ($CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20826 Taxumairol F**

$C_{30}H_{42}O_{13}$ (610.66). $[\alpha]_D = +13^\circ$ ($CHCl_3$). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20827 Taxumairol G**

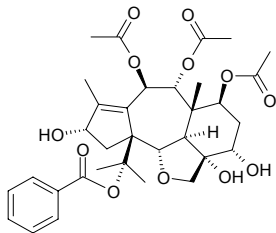
$C_{37}H_{46}O_{14}$ (714.77). Amorphous solid, $[\alpha]_D^{25} = +5.5^\circ$ ($c = 0.2$, CH_2Cl_2). Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.



20828 Taxumairol H

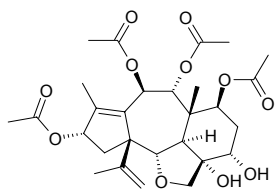
$C_{33}H_{42}O_{12}$ (630.70). Amorphous solid, $[\alpha]_D^{25} = +2.6^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

**20829 Taxumairol I**

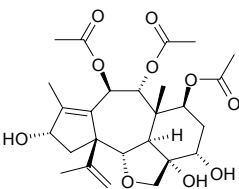
$C_{28}H_{38}O_{11}$ (550.61). Amorphous solid, $[\alpha]_D^{25} = +73.5^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

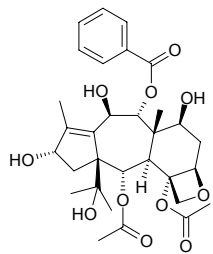
**20830 Taxumairol J**

$C_{26}H_{36}O_{10}$ (508.57). Amorphous solid, $[\alpha]_D^{25} = +9.8^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

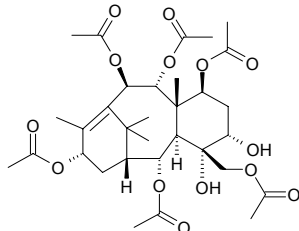
**20831 Taxumairol K**

9 α -(Benzyloxy)-2 α ,4 α -diacetoxy-5 β ,20-epoxy-1 β ,7 β ,10 β ,13 α -tetrahydroxy-11(15 \rightarrow 1)-abeo-taxene $C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -8.5^\circ$ (MeOH). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

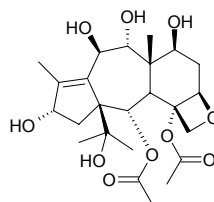
**20832 Taxumairol L**

$C_{32}H_{46}O_{14}$ (654.72). Amorphous solid, $[\alpha]_D^{25} = +12.8^\circ$ ($c = 0.2$, MeOH).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

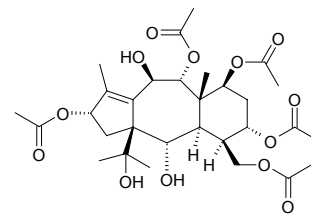
**20833 Taxumairol Q**

$C_{24}H_{36}O_{10}$ (484.55). White amorphous solid. Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 16.25\mu g/mL$; Hepa59T/VGH, $IC_{50} = 14.52\mu g/mL$; control Paclitaxel, KB, $IC_{50} = 0.001\mu g/mL$; Hepa59T/VGH, $IC_{50} = 0.001\mu g/mL$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.000076%dw). Ref: 4666.

**20834 Taxumairol U**

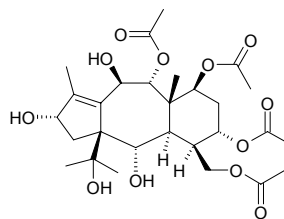
5 α ,7 β ,9 α ,13 α ,20-Pentaacetoxy-2 α ,10 β ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene $C_{30}H_{44}O_{13}$ (612.68). Amorphous solid, $[\alpha]_D^{25} = -18^\circ$ ($c = 0.05$, CH_2Cl_2).

Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 10.3\mu g/mL$; Hepa, $IC_{50} = 0.3\mu g/mL$)^[3070]. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00022%dw)^[4666]. Ref: 3070, 4666.

**20835 Taxumairol V**

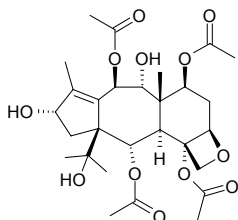
5 α ,7 β ,9 α ,20-Tetraacetoxy-2 α ,10 β ,13 α ,15-tetrahydroxy-11-(15 \rightarrow 1)-abeo-taxene $C_{28}H_{42}O_{12}$ (570.64). Amorphous powder, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.05$, CH_2Cl_2).

Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 3.9\mu g/mL$; Hepa, $IC_{50} = 1.6\mu g/mL$)^[3070]. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00006%dw)^[4666]. Ref: 3070, 4666.

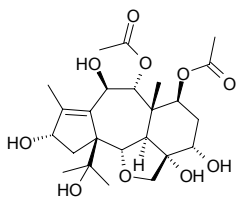


20836 Taxumairol W

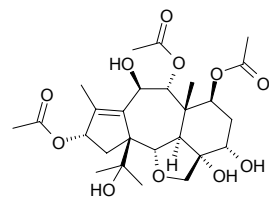
2 α ,4 α ,7 β ,10 β -Tetraacetoxy-5 β ,20-epoxy-9 α ,13 α ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene C₂₈H₄₀O₁₂ (568.62). Amorphous solid, $[\alpha]_D^{25} = -54^\circ$ ($c = 0.05$, CH₂Cl₂). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ > 20 μ g/mL; Hepa, IC₅₀ = 7 μ g/mL)^[3070]. **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00004%dw)^[4666]. **Ref:** 3070, 4359, 4666.

**20837 Taxumairol X**

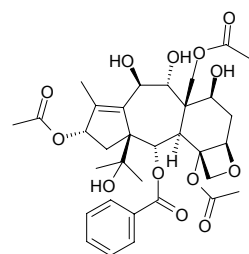
C₂₄H₃₆O₁₀ (484.55). Amorphous powder, $[\alpha]_D^{25} = +14.6^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20838 Taxumairol Y**

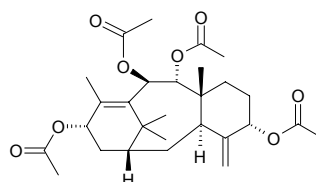
C₂₆H₃₈O₁₁ (526.59). Amorphous powder, $[\alpha]_D^{25} = +72.6^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20839 Taxumairol Z**

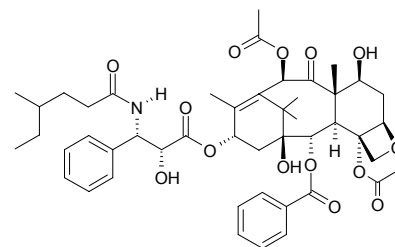
C₃₃H₄₂O₁₃ (646.69). Amorphous powder, $[\alpha]_D^{25} = -25^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20840 Taxusin**

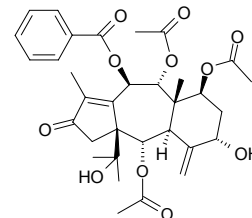
5 α ,9 α ,10 β ,13 α -Tetraacetoxytaxa-4(20),11-diene C₂₈H₄₀O₈ (504.63). mp 126°C, mp 129~131°C, mp 124~126°C, mp 124~126°C, mp 131~132°C, $[\alpha]_D = +110^\circ$, $[\alpha]_D = +120^\circ$ (CHCl₃), $[\alpha]_D = +95^\circ$ (MeOH), $[\alpha]_D = +168^\circ$ (CHCl₃). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC₅₀ = 61.4 μ g/mL; HT1080, EC₅₀ = 51.7 μ g/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μ g/mL; HT1080, EC₅₀ = 0.07 μ g/mL)^[4661]; antioxidant (DPPH scavenger, IC₅₀ > 200 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L); NO production inhibitor (IC₅₀ = 22.1 μ mol/L, control L-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.011%dw)^[4661], ZI SHAN *Taxus cuspidata*. **Ref:** 6, 563, 662, 4661, 5407.

**20841 Taxuspinanane A**

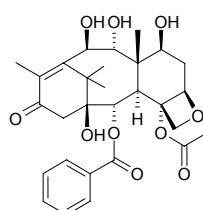
C₄₇H₅₀NO₁₄ (861.99). $[\alpha]_D = -40.2^\circ$ (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20842 Taxuspinanane B**

C₃₃H₄₀O₁₁ (612.68). $[\alpha]_D = +26.6^\circ$ (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

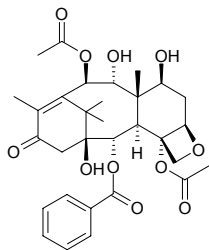
**20843 Taxuspinanane C**

[198207-98-6] C₂₉H₃₆O₁₀ (544.60). mp 152~154°C, $[\alpha]_D = +60^\circ$ (MeOH). **Pharm:** Cytotoxic (P₃₈₈, IC₅₀ = 10 μ g/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1790.

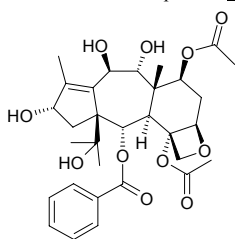


20844 Taxuspinanane D

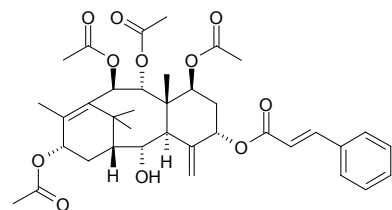
13-Oxo-7,9-bis-deacetylbaaccatin VI C₃₁H₃₈O₁₁ (586.64). [α]_D = -40.2° (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20845 Taxuspinanane F**

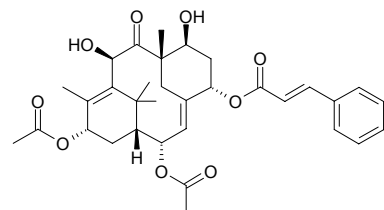
9-Deacetyltaayuntin E C₃₁H₄₀O₁₁ (588.66). [α]_D = -23.2° (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20846 Taxuspinanane G**

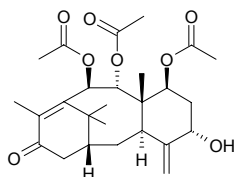
2 α -Deacetyltaxinine J C₃₇H₄₆O₁₁ (666.77). [α]_D = -54.9° (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20847 Taxuspinanane H**

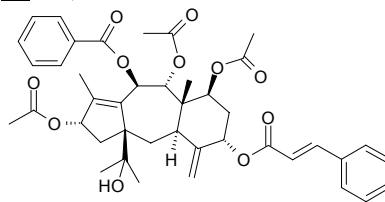
Deaminoacylcinnamoyltaxine A C₃₃H₄₀O₉ (580.68). [α]_D = -42° (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20848 Taxuspinanane K**

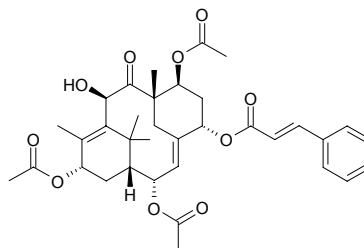
C₂₆H₃₆O₈ (476.57). [α]_D = +95.2° (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20849 Taxuspine A**

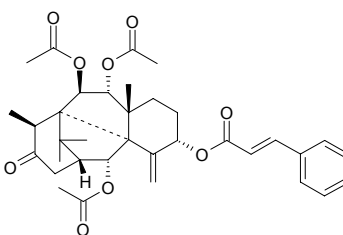
[157374-28-2] C₄₂H₄₈O₁₁ (728.84). [α]_D = -3.4° (CHCl₃). Pharm: Cytotoxic (mus, L₁₂₁₀, IC₅₀ = 5.8 μ g/mL; hmn, KB, 10 μ g/mL InRt = 8.9%). Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662, 1776.

**20850 Taxuspine B**

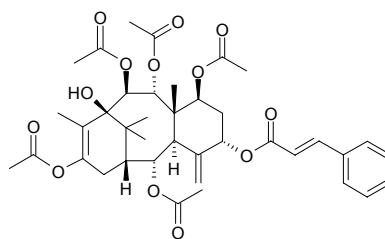
[157414-05-6] C₃₅H₄₂O₁₀ (622.72). [α]_D = -40.6° (CHCl₃). Pharm: Cytotoxic (mus, L₁₂₁₀, IC₅₀ = 18 μ g/mL; hmn, KB, 10 μ g/mL InRt = 11.8%; inhibits Ca²⁺-induced depolymerization of tubulin to overcome resistance of cancer cells). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079], *Taxus* sp. Ref: 662, 1776, 3079.

**20851 Taxuspine C**

[146278-50-4] C₃₅H₄₂O₉ (606.72). [α]_D = +7.4° (CHCl₃). Pharm: Cytotoxic (mus, L₁₂₁₀, IC₅₀ = 5.8 μ g/mL; hmn, KB, 10 μ g/mL InRt = 8.9%). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079], ZI SHAN *Taxus cuspidata*. Ref: 662, 1776, 3079.

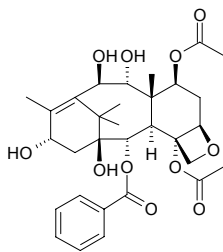
**20852 Taxuspine D**

[166990-12-1] C₃₉H₄₈O₁₃ (724.81). [α]_D = -32.2° (MeOH). Pharm: Cytotoxic (*in vitro*, L₁₂₁₀, IC₅₀ = 3.0 μ g/mL; KB, IC₅₀ = 1.8 μ g/mL). Source: ZI SHAN *Taxus cuspidata*. Ref: 662, 1777.

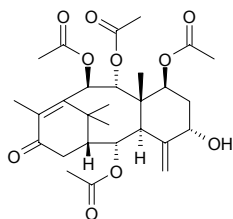


20853 Taxuspine E

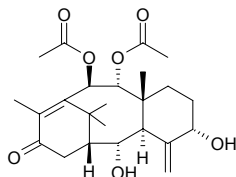
[165074-73-7] $C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -17^\circ$ ($CHCl_3$). **Pharm:** Cytotoxic (L_{1210} , $IC_{50} = 0.27\mu g/mL$; KB, $IC_{50} = 0.08\mu g/mL$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1775.

**20854 Taxuspine F**

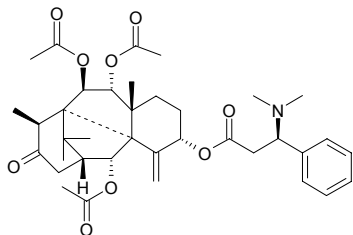
$C_{28}H_{38}O_{10}$ (534.61). $[\alpha]_D = +50^\circ$ ($CHCl_3$). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00023%dw)^[4666], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 4666.

**20855 Taxuspine G**

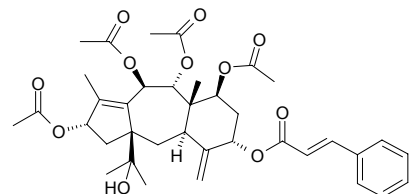
2-Deacetyltaxinine A $C_{24}H_{34}O_7$ (434.53). mp 295–298°C, $[\alpha]_D = +97^\circ$ ($CHCl_3$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20856 Taxuspine H**

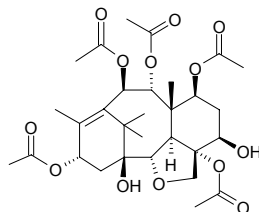
[164991-81-5] $C_{37}H_{49}NO_9$ (651.80). $[\alpha]_D = +6.8^\circ$ ($CHCl_3$). **Pharm:** Cytotoxic (KB, $IC_{50} = 1.6\mu g/mL$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1775.

**20857 Taxuspine J**

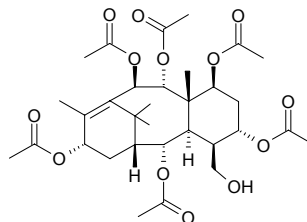
$C_{37}H_{46}O_{11}$ (666.77). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20858 Taxuspine K**

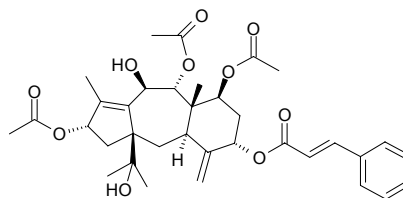
$C_{30}H_{42}O_{13}$ (610.66). $[\alpha]_D = +14^\circ$ ($CHCl_3$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20859 Taxuspine L**

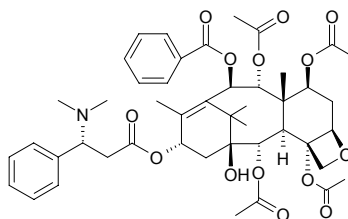
$C_{32}H_{46}O_{13}$ (638.72). $[\alpha]_D = +108^\circ$ ($CHCl_3$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20860 Taxuspine M**

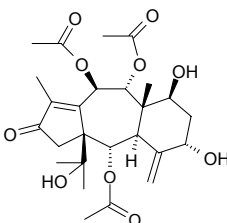
$C_{35}H_{44}O_{10}$ (624.73). $[\alpha]_D = +35^\circ$ ($CHCl_3$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20861 Taxuspine N**

$C_{46}H_{57}NO_{14}$ (847.97). $[\alpha]_D = -6.0^\circ$ ($CHCl_3$). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

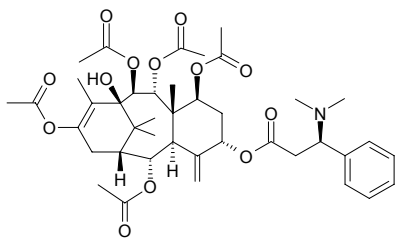
**20862 Taxuspine O**

$C_{26}H_{36}O_{10}$ (508.57). $[\alpha]_D = +79.7^\circ$ (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

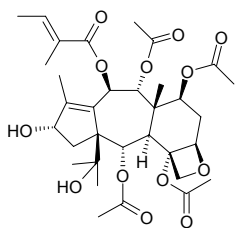


20863 Taxuspine P

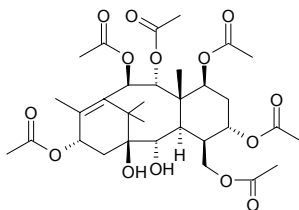
2 α ,7 β ,9 α ,10 β ,13-Pentaacetoxy-11 β -hydroxy-5 α -(3'-*N,N*-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),12-diene C₄₁H₅₅NO₁₃ (769.89). Amorphous solid, $[\alpha]_D^{22} = +39^\circ$ ($c = 0.2$, CHCl₃), $[\alpha]_D = +32.7^\circ$ (MeOH). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), ZI SHAN *Taxus cuspidata*. Ref: 662, 3886.

**20864 Taxuspine Q**

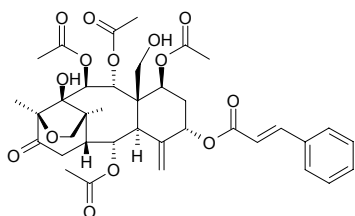
C₃₃H₄₆O₁₃ (650.73). $[\alpha]_D = -8.2^\circ$ (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20865 Taxuspine R**

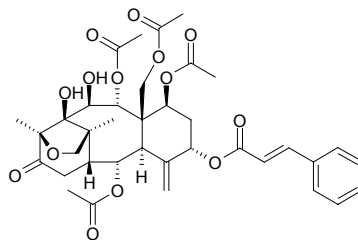
C₃₂H₄₆O₁₄ (654.72). $[\alpha]_D = +68^\circ$ (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20866 Taxuspine S**

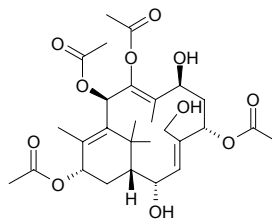
C₃₇H₄₄O₁₄ (712.75). $[\alpha]_D = -4.4^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20867 Taxuspine T**

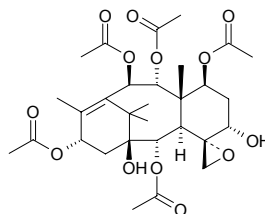
C₃₇H₄₄O₁₄ (712.75). $[\alpha]_D = -13.4^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20868 Taxuspine U**

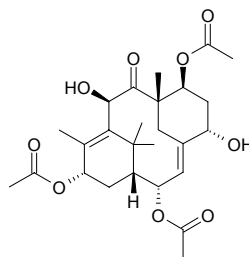
C₂₈H₄₀O₁₁ (552.62). $[\alpha]_D = +18^\circ$ (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20869 Taxuspine V**

1 β -Hydroxy-5 α -deacetylbaccatin I C₃₀H₄₂O₁₃ (610.66). mp 230~232°C, $[\alpha]_D = +56^\circ$ (CHCl₃), mp 273~275°C, $[\alpha]_D = +138.7^\circ$ (CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

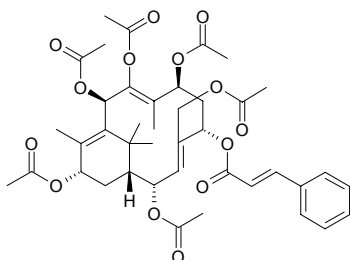
**20870 Taxuspine W**

2 α ,7 β ,13 α -Triacetoxy-5 α ,10 β -dihydroxy-9-keto-2(3 \rightarrow 20)-abeo-taxane C₂₆H₃₆O₉ (492.57). mp 172~174°C, $[\alpha]_D = -94.7^\circ$ (MeOH), $[\alpha]_D = -147^\circ$. Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662.

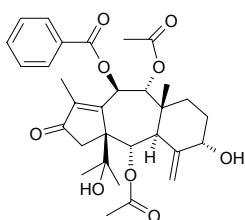


20871 Taxuspine X

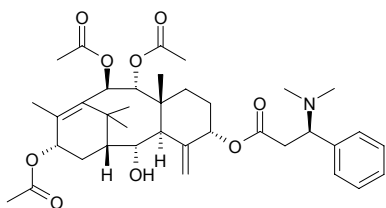
[194782-02-0] C₄₁H₅₀O₁₄ (766.85). Colorless amorphous solid, [α]_D²² = +31.7° (*c* = 0.13, chloroform). **Pharm:** Cytotoxic (mus, L₁₂₁₀, *in vitro*, IC₅₀ = 4.2 μg/mL). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963, 4611.

**20872 Taxuspine Y**

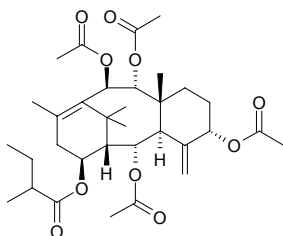
[194782-03-1] C₃₁H₃₈O₉ (554.64). Colorless amorphous solid, [α]_D³¹ = -25.4° (*c* = 0.17, chloroform). **Pharm:** Cytotoxic (mus, L₁₂₁₀, *in vitro*, IC₅₀ = 5.4 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20873 Taxuspine Z**

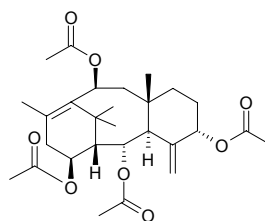
[194782-04-2] C₃₇H₅₁NO₉ (653.82). Colorless amorphous solid, [α]_D²⁸ = +31.2° (*c* = 0.08, chloroform). **Pharm:** Cytotoxic (KB, *in vitro*, IC₅₀ = 6.2 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20874 Taxuyunnanine B**

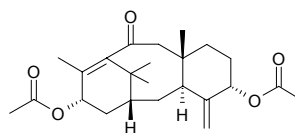
C₃₃H₄₈O₁₀ (604.74). [α]_D = +58.2° (*c* = 1.2, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20875 Taxuyunnanine C**

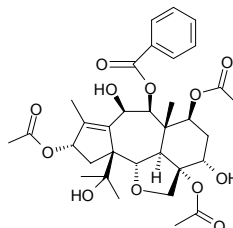
2 α ,5 α ,10 β ,14 β -Tetraacetoxytaxa-4(20),11-diene C₂₈H₄₀O₈ (504.63). [α]_D = +41.1° (*c* = 1.2, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*^[3079], HONG DOU SHAN *Taxus chinensis*. **Ref:** 662, 3079.

**20876 Taxuyunnanine D**

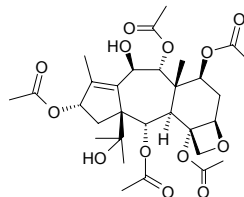
C₂₄H₃₄O₅ (402.54). [α]_D = -61.0° (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20877 Taxuyunnanine E**

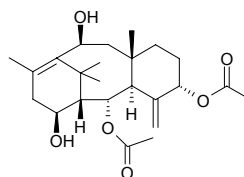
[167425-73-2] C₃₃H₄₂O₁₂ (630.70). [α]_D = +3.3° (CHCl₃). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC₅₀ > 100 μg/mL; HT1080, EC₅₀ > 100 μg/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μg/mL; HT1080, EC₅₀ = 0.07 μg/mL)^[4661]; NO production inhibitor (IC₅₀ = 54.8 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood; yield = 0.0022% dw)^[4661]. **Ref:** 662, 4661, 5407.

**20878 Taxuyunnanine F**

C₃₀H₄₂O₁₃ (610.66). [α]_D = -22.6° (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

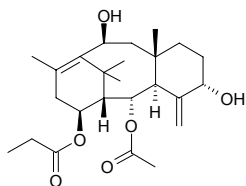
**20879 Taxuyunnanine G**

C₂₄H₃₆O₆ (420.55). [α]_D = +40.6° (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

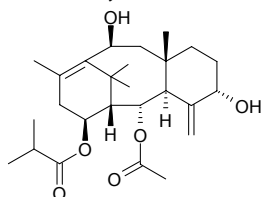


20880 Taxuyunnanine H

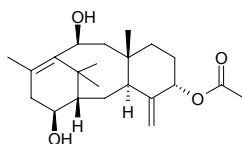
$C_{25}H_{38}O_6$ (434.58). $[\alpha]_D^{25} = +101.8^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20881 Taxuyunnanine I**

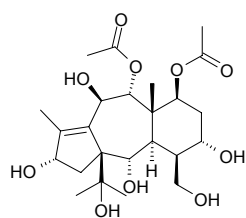
$C_{26}H_{40}O_6$ (448.61). $[\alpha]_D^{25} = +27.1^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20882 Taxuyunnanine J**

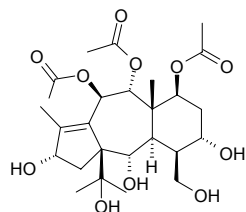
$C_{22}H_{34}O_4$ (362.51). $[\alpha]_D^{25} = +71.3^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20883 Taxuyunnanine P**

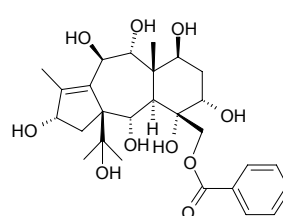
$C_{24}H_{38}O_{10}$ (486.56). White powder, $[\alpha]_D^{28} = -12.7^\circ$ ($c = 0.65$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20884 Taxuyunnanine Q**

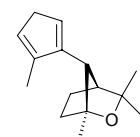
$C_{26}H_{40}O_{11}$ (528.60). White powder, $[\alpha]_D^{28} = -44.0^\circ$ ($c = 0.25$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20885 Taxuyunnanine R**

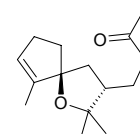
$C_{27}H_{38}O_{10}$ (522.60). White powder, $[\alpha]_D^{28} = -5.0^\circ$ ($c = 0.10$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20886 (-)-(6S,7S,10R)-Taylocyclane**

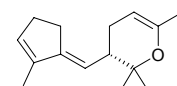
1,3,3-Trimethyl-7-(5-methylcyclopenta-1,4-dien-1-yl)-2-oxabicyclo[2,2,1]heptane $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20887 (5S*,7S*)-Taylofuran**

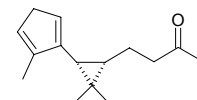
4-(2,2,6-Trimethyl-1-oxaspiro[4,4]non-6-en-3-yl)-butan-2-one $C_{15}H_{24}O_2$ (236.36). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20888 (-)-(7S)-(E)-Taylopyran**

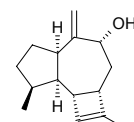
2,2,6-Trimethyl-3-[(E)(2-methylcyclopenta-2-en-1-ylidene)methyl]-3,4-dihydro-2-H-pyran $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20889 (-)-(6R,7S)-α-Taylorione**

4-[2,2-Dimethyl-3-(5-methylcyclopenta-1,4-dien-1-yl)-cyclopropyl]-butan-2-one $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

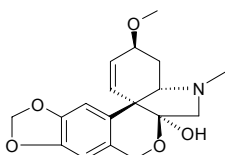
**20890 (1R*,4S*,5S*,6R*,7S*,9R*)-Taynudol**

2,8-Dimethyl-5-methylene-2a,3,4,5,5a,6,7,8,8a,8b-decahydro-cyclobuta[e]azulen-4-ol $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

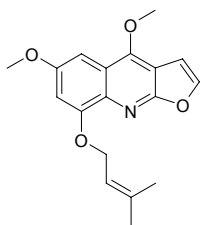


20891 Tazettine

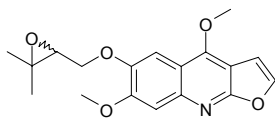
Sekisanine; Seqisanoline; Ungermine [507-79-9] $C_{18}H_{21}NO_5$ (331.37). mp 210~211°C (vacuum), mp 237~238°C, $[\alpha]_D^{25} = +150.3^\circ$ (chloroform), soluble in methanol, ethanol, chloroform, slightly soluble in ether.^[5507] **Pharm:** AChE inhibitor ($IC_{50} = (705 \pm 63) \mu\text{mol/L}$; control Galanthamine, $IC_{50} = (1.9 \pm 0.16) \mu\text{mol/L}$)^[4944]. **Source:** DA YI ZHI JIAN *Lycoris aurea*, GAN FENG CAO *Zephyranthes candida*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI GUI JIAO YE *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*], DUO HUA SHUI XIAN *Narcissus tazetta* (in 1956, the compound was isolated from the plant by T.Ikeda et al.)^[5505], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, WEN SHU LAN *Crinum asiaticum* var. *sinicum*, *Cyrtanthus falcatius*. **Ref:** 6, 4952, 5505, 5507.

**20892 Tecleabine**

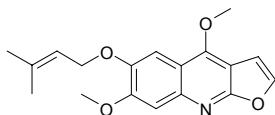
4,6-Dimethoxy-8-prenyloxyfuroquinoline $C_{18}H_{19}NO_4$ (313.36). Needles, mp 107~108°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**20893 Tecleanatalensine A**

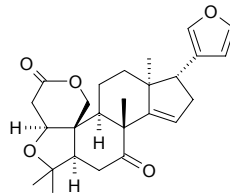
Tecleoxine; 6-[(2,3-Epoxy-3-methylbutyl)oxy]-4,7-dimethoxyfuro[2,3-b]quinoline $C_{18}H_{19}NO_5$ (329.36). Needles, mp 120~12°C, $[\alpha]_D = +10^\circ$ ($c = 0.05$, MeOH); pale yellow gum, $[\alpha]_D = +11^\circ$ ($c = 0.19$, CH_2Cl_2). **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts), *Teclea natalensis* (leaf). **Ref:** 3503, 5267.

**20894 Tecleanatalensine B**

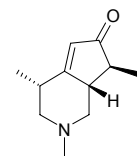
4,7-Dimethoxy-6-[(3-methyl-2-butenyl)oxy]furo[2,3-b]quinoline $C_{18}H_{19}NO_4$ (313.36). Pale yellow gum. **Source:** *Teclea natalensis* (leaf). **Ref:** 5267.

**20895 Tecleanin**

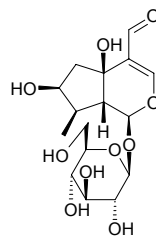
$C_{26}H_{32}O_5$ (424.54). **Source:** DA YE YOU MU YUN XIANG *Teclea grandifolia*, *Teclea oubanguiensis*, *Turraea wakefieldii* (root cortex). **Ref:** 3459.

**20896 Tecomanine**

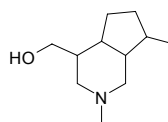
$C_{11}H_{17}NO$ (179.26). Liquid, bp 125°C/0.1mmHg, $[\alpha]_D^{24} = -175^\circ$ ($c = 1.17$, chloroform). **Pharm:** Hypoglycemic; LD (mus) = 300mg/kg. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 1437.

**20897 Tecomoside**

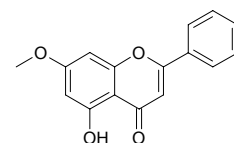
$C_{16}H_{24}O_{10}$ (376.36). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 660.

**20898 Tecostanine**

$C_{11}H_{21}NO$ (183.30). mp 85°C, $[\alpha]_D^{20} = (0 \pm 2)^\circ$ (methanol); hydrochloride: mp 262°C, methyl iodide: mp 245°C. **Pharm:** Hypoglycemic. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 661.

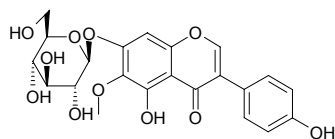
**20899 Tectochrysin**

5-Hydroxy-7-methoxyflavone $C_{16}H_{12}O_4$ (268.27). Yellow slice crystals (methanol), mp 163°C. **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, LPS-activated mouse peritoneal macrophages, $IC_{50} = 23 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 28 \mu\text{mol/L}$)^[4655]; β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 $\mu\text{mol/L}$, InRt = 75.1%; control Curcumin, InRt = 62.6%)^[4655]. **Source:** SHAN YANG *Populus davidiana*, *Nuxia sphaerocephala* (leaf), YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0013%dw)^[4655]. **Ref:** 2212, 4419, 4655.

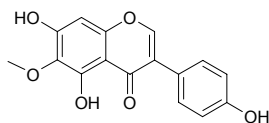


20900 Tectoridin

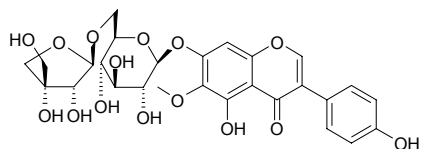
Tectorigin; Shekanin C₂₂H₂₂O₁₁ (462.41). mp 258°C. **Pharm:** Antioxidant (OH• radical scavenger)^[2452]; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE₂ production)^[4415]; anti-angiogenic (chick embryo, 30μg/egg, InRt = 35.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)^[5423]; antiproliferative (CPAE cell, 100μmol/L, InRt = 43.6%, control Genistein, InRt = 56.4%, IC₅₀ = 66.9μmol/L)^[5423]; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 24.8%)^[5423]. **Source:** BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: mean content = 0.86%)^[5508], HE AN HUANG TAN *Dalbergia riparia*, SHE GAN *Belamcanda chinensis* (dried rhizome: mean content = 1.72%)^[5508], YUAN WEI *Iris tectorum*. **Ref:** 6, 658, 2452, 4128, 4415, 5423, 5508.

**20901 Tectorigenin**

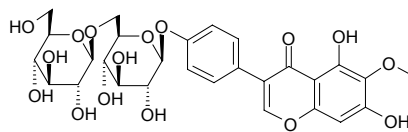
C₁₆H₁₂O₆ (300.27). mp 227°C (dec). **Pharm:** Antifungal^[2452]; free radical scavenger (O₂⁻, ·OH and H₂O₂ free radical)^[2452]; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE₂ production)^[4415]; anti-angiogenic (chick embryo, 30μg/egg, InRt = 80.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)^[5423]; antiproliferative (CPAE cell, 100μmol/L, InRt = 55.0%, IC₅₀ = 67.9μmol/L, control Genistein, InRt = 56.4%, IC₅₀ = 66.9μmol/L)^[5423]; antineoplastic (mouse implanted with murine Lewis lung carcinoma (LLC), sc dose of 30mg/(kg·d) for²⁰ days, inhibition of tumor volume by 30.8%)^[5423]; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 44.2%)^[5423]. **Source:** BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: content = 0.87%)^[5508], CI MANG BING HUA *Ononis spinosa*, DE GUO YUAN WEI *Iris germanica*, SHE GAN *Belamcanda chinensis* (dried rhizome: content = 1.37%)^[5508], YUAN WEI *Iris tectorum* (dried rhizome: content = 3.14%)^[5508], *Dalbergia* sp. **Ref:** 6, 658, 2452, 4128, 4415, 5423, 5501, 5508.

**20902 Tectorigenin-7-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

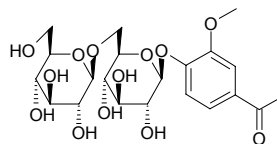
C₂₇H₃₀O₁₅ (594.53). Yellow amorphous powder, [α]_D²⁵ = -67.0° (c = 0.28, MeOH). **Source:** YIN DU HUANG TAN *Dalbergia sissoo* (stem and leaf-bark). **Ref:** 5172.

**20903 Tectorigenin-4'-glucosyl(1→6)glucoside**

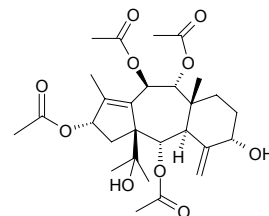
C₂₈H₃₂O₁₆ (624.56). Yellow amorphous powder. **Source:** AI JI ZHONG ZHI YUAN WEI *Iris carthaliniae*. **Ref:** 1880.

**20904 Tectoruside**

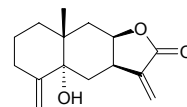
C₂₁H₃₀O₁₃ (490.47). mp 207~209°C. **Source:** YUAN WEI *Iris tectorum* (rhizome). **Ref:** 6, 660.

**20905 Teixidol**

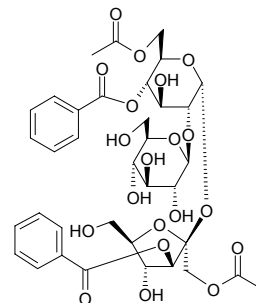
C₂₈H₄₀O₁₀ (536.63). mp 159°C, [α]_D = -15.91° (CHCl₃). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20906 Telekin**

C₁₅H₂₀O₃ (248.32). **Source:** TIAN MING JING *Carpesium abrotanoides*, MEI LI TE LE JU *Telekia spectiosa*. **Ref:** 660.

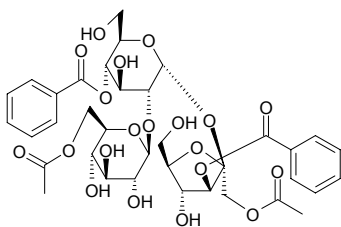
**20907 Telephiose A**

C₃₆H₄₄O₂₀ (796.74). [α]_D = -11.0°. **Source:** XIAO HUA YUAN ZHI *Polygala telephioides*. **Ref:** 2184, 4044.

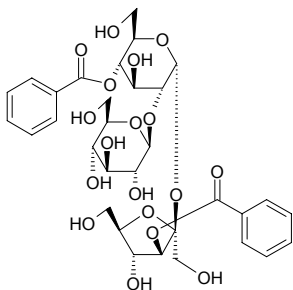


20908 Telephiose B

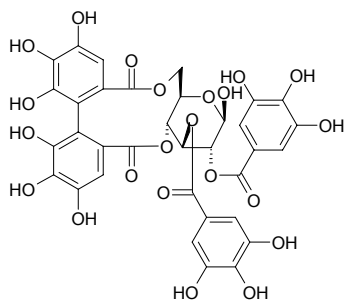
$C_{36}H_{44}O_{20}$ (796.74). $[\alpha]_D = -17.6^\circ$. Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20909 Telephiose C**

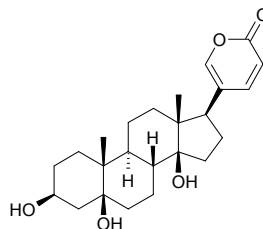
$C_{32}H_{40}O_{18}$ (712.66). $[\alpha]_D = -19.5^\circ$. Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20910 Tellimagrandin I**

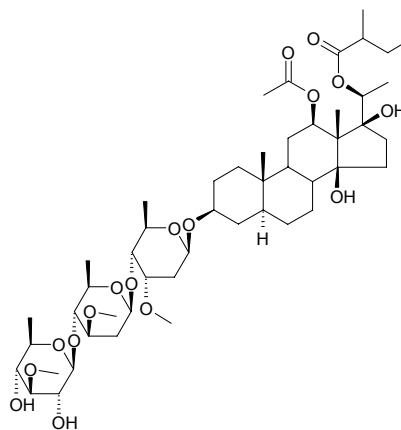
1-Desgalloylloganin $C_{34}H_{26}O_{22}$ (786.57). Pharm: Antihepatotoxin; inhibits lipolysis (rat fat cells, induced by adrenaline); antioxidant (SOD-like activity, $EC_{50} = 53.4 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6 \mu\text{mol/L}$)^[3408]; antioxidant (DPPH scavenger, $EC_{50} = 0.79 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25 \mu\text{mol/L}$)^[3408]. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.019%fw)^[4695], DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DUO ZHI AN *Eucalyptus viminalis*, FAN SHI LIU GAN *Psidium guajava*, FEI YUE GUO *Feijoa sellowiana*, HU TAO REN *Juglans regia*, SHAN CHA *Camellia japonica*, SHUI YANG MEI *Geum japonicum*, XIN SHAO NA CAO *Tellima grandifolia*, *Rosa* sp., *Quercus* sp., *Fuchsia* sp. Ref: 658, 3408, 4695.

**20911 Telocinobufagin**

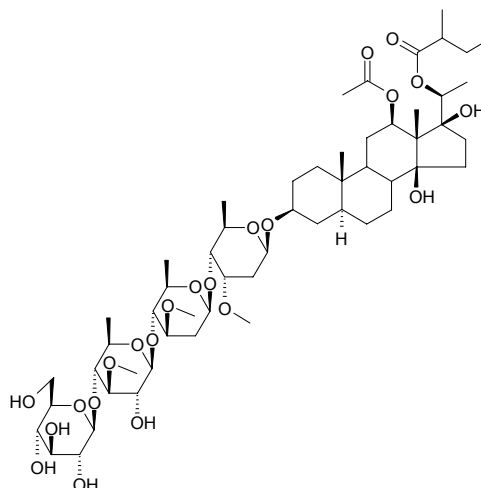
$C_{24}H_{34}O_5$ (402.54). mp 160°C , $207\sim 211^\circ\text{C}$. Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 1.3 \mu\text{g/mL}$; HL-60, $IC_{50} < 0.01 \mu\text{g/mL}$; MH-60, $IC_{50} > 25 \mu\text{g/mL}$)^[3082]. Source: CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.44%)^[5508]; *Bufo melanostictus* (dried secretion: content = 0.03%)^[5508]. Ref: 2, 3082, 5508.

**20912 Telosmoside A₁**

Telosmogenin I 3-*O*- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside $C_{49}H_{82}O_{17}$ (943.19). White amorphous powder, $[\alpha]_D^{30} = -9.6^\circ$ ($c = 2.80$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

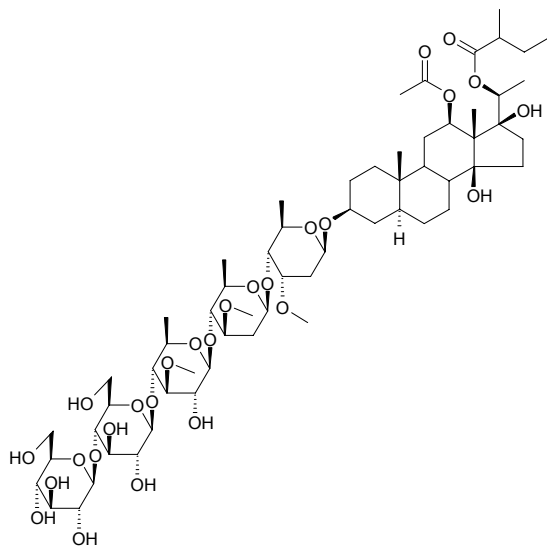
**20913 Telosmoside A₂**

Telosmogenin I 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside $C_{55}H_{92}O_{22}$ (1105.33). White amorphous powder, $[\alpha]_D^{31} = -2.2^\circ$ ($c = 1.79$, MeOH). Pharm: Bitter. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

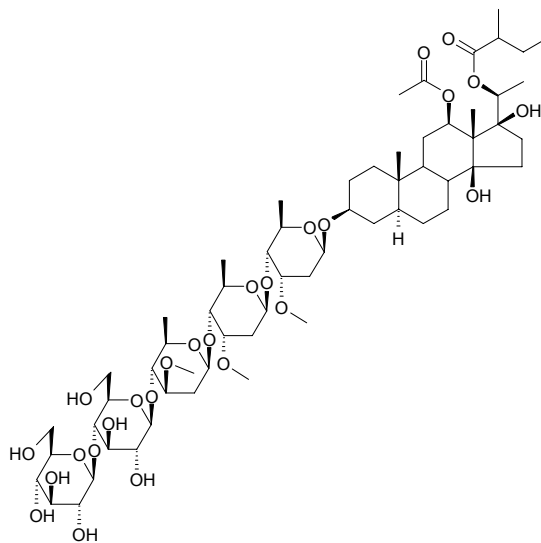


20914 Telosmoside A₃

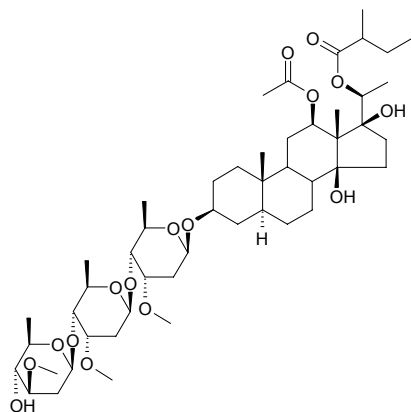
C₆₁H₁₀₂O₂₇ (1267.48). White amorphous powder, $[\alpha]_D^{31} = -0.7^\circ$ ($c = 1.49$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20916 Telosmoside A₅**

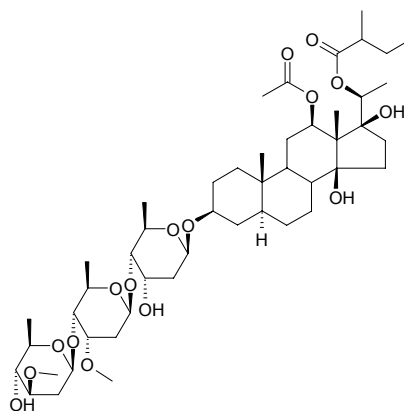
C₆₁H₁₀₂O₂₆ (1251.48). White amorphous powder, $[\alpha]_D^{21} = +2.0^\circ$ ($c = 0.51$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20915 Telosmoside A₄**

Telosmogenin I 3-O-β-D-oleandropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside C₄₉H₈₂O₁₆ (927.19). White amorphous powder, $[\alpha]_D^{30} = +1.2^\circ$ ($c = 0.87$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

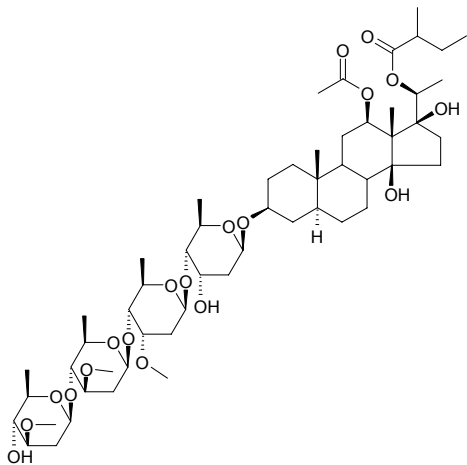
**20917 Telosmoside A₆**

Telosmogenin I 3-O-β-D-oleandropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-digitoxopyranoside C₄₈H₈₀O₁₆ (913.16). White amorphous powder, $[\alpha]_D^{30} = -6.8^\circ$ ($c = 1.76$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

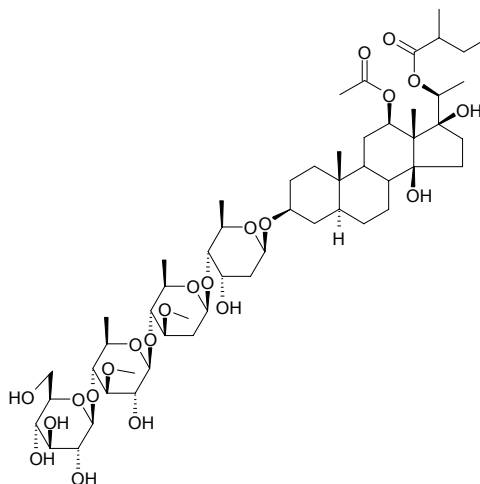


20918 Telosmoside A₇

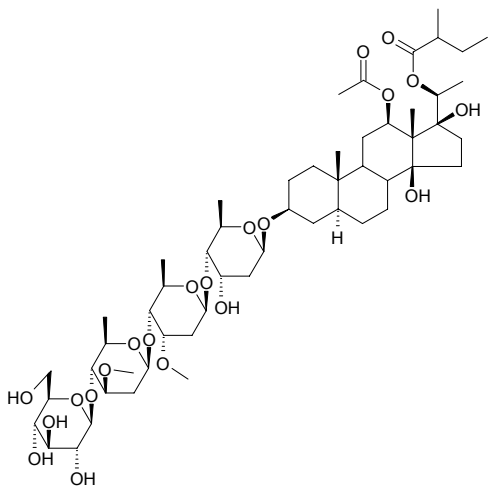
C₅₅H₉₂O₁₉ (1057.19). White amorphous powder, $[\alpha]_D^{30} = -8.3^\circ$ ($c = 1.92$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20920 Telosmoside A₉**

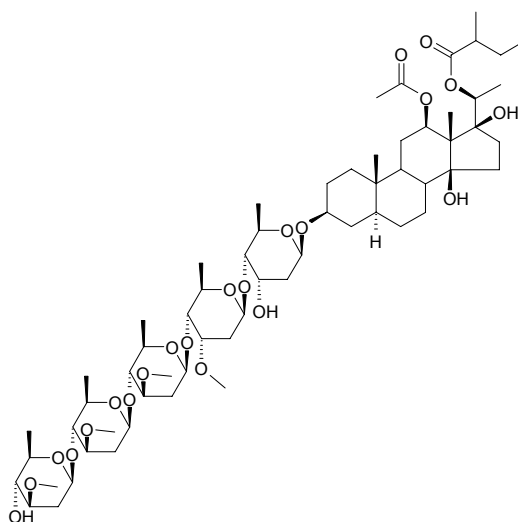
Telosmogenin I 3-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-thevetopyranosyl-(1→4)-β-*D*-oleandropyranosyl-(1→4)-β-*D*-digitoxopyranoside C₅₄H₉₀O₂₂ (1091.31). White amorphous powder, $[\alpha]_D^{30} = -6.0^\circ$ ($c = 0.67$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20919 Telosmoside A₈**

C₅₄H₉₀O₂₁ (1075.31). White amorphous powder, $[\alpha]_D^{30} = -2.3^\circ$ ($c = 0.89$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

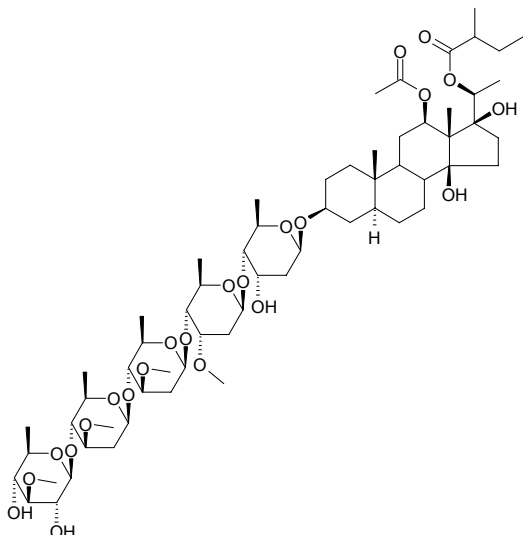
**20921 Telosmoside A₁₀**

C₆₂H₁₀₄O₂₂ (1201.51). White amorphous powder, $[\alpha]_D^{21} = +7.6^\circ$ ($c = 0.53$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

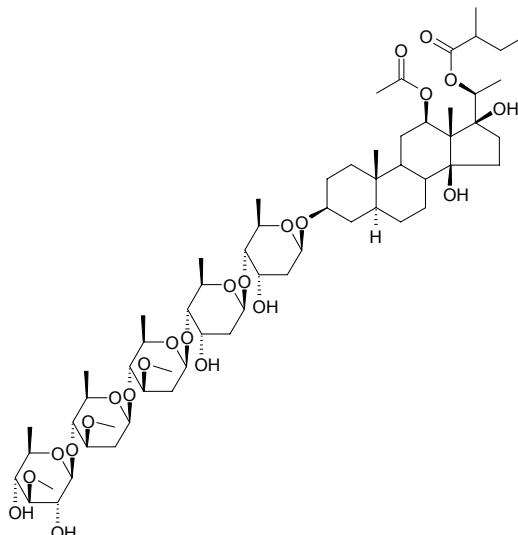


20922 Telosmoside A₁₁

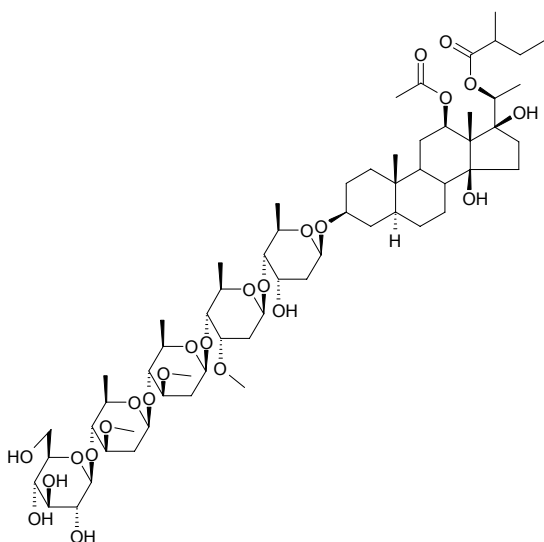
C₆₂H₁₀₄O₂₃ (1217.51). White amorphous powder, $[\alpha]_D^{31} = -7.0^\circ$ ($c = 1.85$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20924 Telosmoside A₁₃**

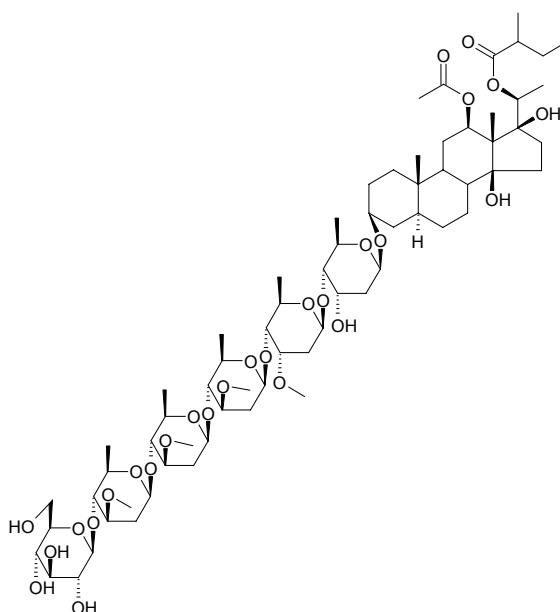
C₆₁H₁₀₂O₂₃ (1203.48). White amorphous powder, $[\alpha]_D^{31} = -16.3^\circ$ ($c = 1.41$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20923 Telosmoside A₁₂**

C₆₁H₁₀₂O₂₄ (1219.48). White amorphous powder, $[\alpha]_D^{30} = -5.0^\circ$ ($c = 2.38$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

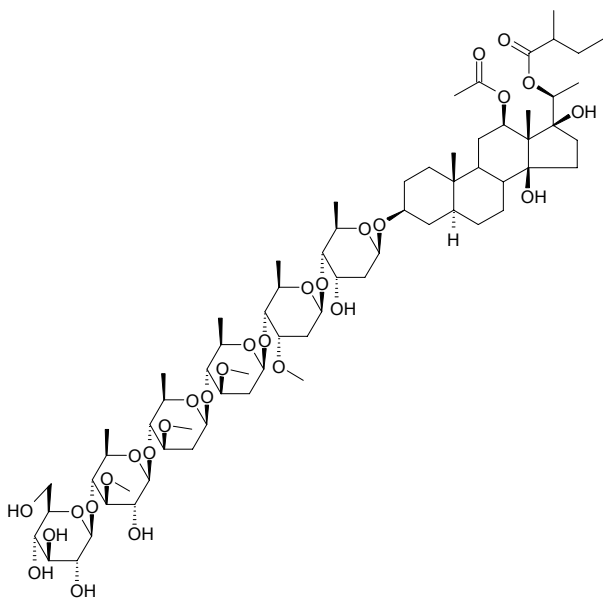
**20925 Telosmoside A₁₄**

C₆₈H₁₁₄O₂₇ (1363.65). White amorphous powder, $[\alpha]_D^{21} = -7.5^\circ$ ($c = 3.05$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

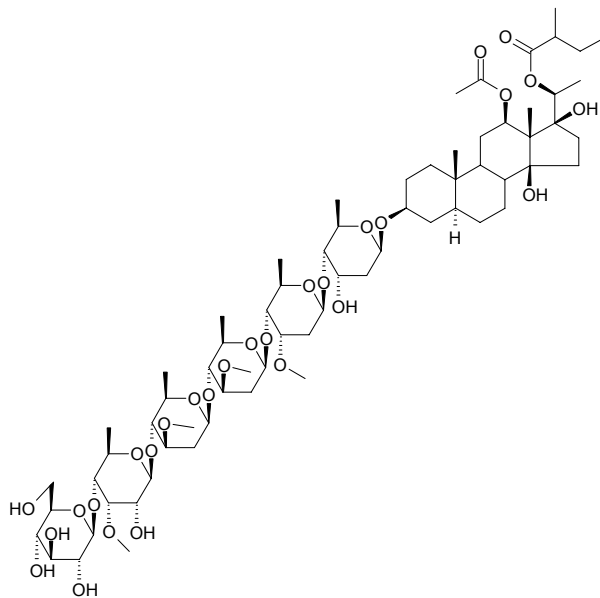


20926 Telosmoside A₁₅

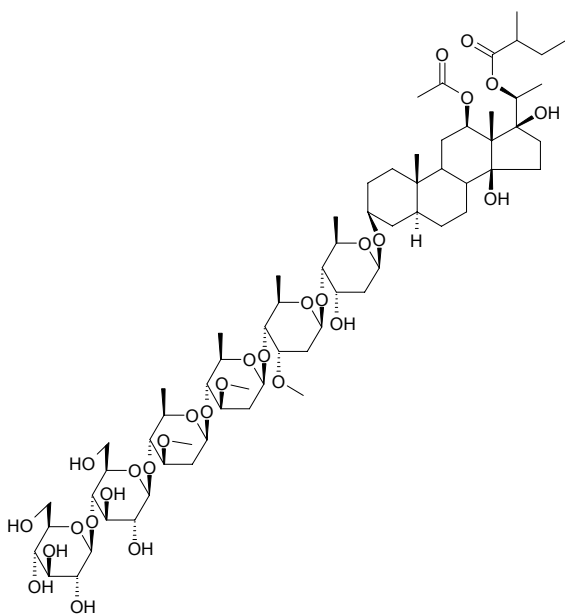
$C_{68}H_{114}O_{28}$ (1379.65). White amorphous powder, $[\alpha]_D^{31} = +3.7^\circ$ ($c = 1.35$, MeOH). **Pharm:** Sweetener (its sweetness intensity is 1000 times greater than that of sucrose). **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20928 Telosmoside A₁₇**

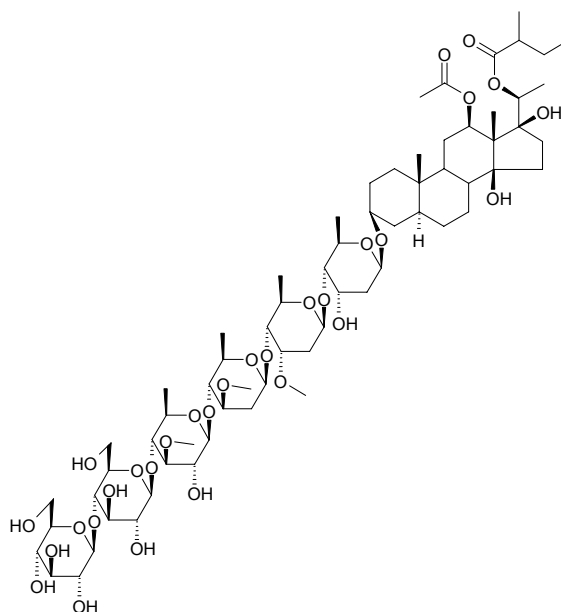
$C_{68}H_{114}O_{28}$ (1379.65). White amorphous powder, $[\alpha]_D^{30} = +2.0^\circ$ ($c = 2.51$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20927 Telosmoside A₁₆**

$C_{67}H_{112}O_{29}$ (1381.62). White amorphous powder, $[\alpha]_D^{30} = +6.0^\circ$ ($c = 2.51$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

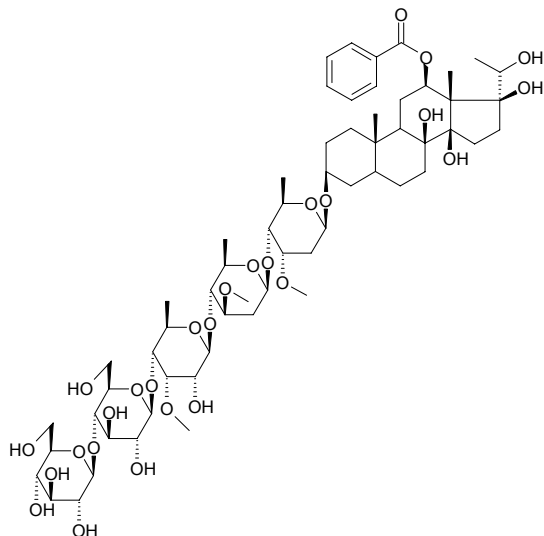
**20929 Telosmoside A₁₈**

$C_{67}H_{112}O_{30}$ (1397.62). White amorphous powder, $[\alpha]_D^{31} = +4.7^\circ$ ($c = 1.93$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

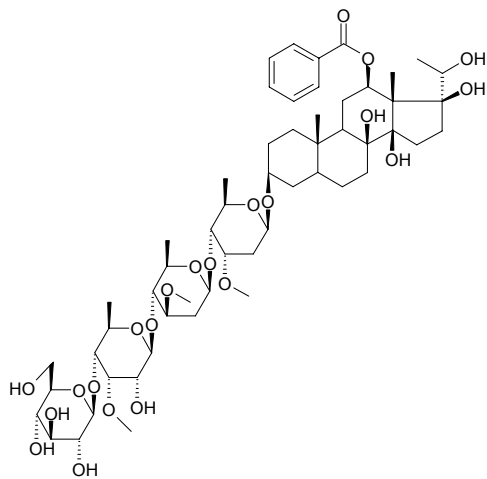


20930 Tenacissoside J

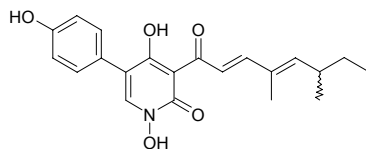
$C_{61}H_{96}O_{27}$ (1261.43). White powder ($CHCl_3$). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20931 Tenacissoside K**

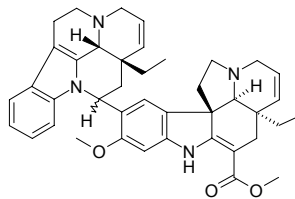
$C_{55}H_{86}O_{22}$ (1099.29). White powder ($CHCl_3$). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20932 Tenellin**

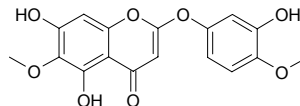
$C_{21}H_{23}NO_5$ (369.42). Source: BAI JIANG CAN *Bombyx mori*, BAI JIANG JUN *Beauveria bassiana*. Ref: 660.

**20933 Tenuicausine**

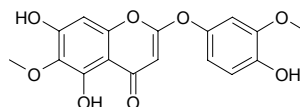
[119212-24-7] $C_{41}H_{46}N_4O_3$ (642.85). Source: BO YE SHAN CHENG *Melodinus tenuicaudatus*. Ref: 553.

**20934 Tenuiflorin A**

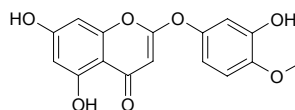
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)-6-methoxychromone $C_{17}H_{14}O_8$ (346.30). White-brownish crystals, mp 185~187°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20935 Tenuiflorin B**

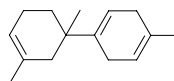
5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenoxy)-6-methoxychromone $C_{17}H_{14}O_8$ (346.30). White-brownish crystals, mp 212~214°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20936 Tenuiflorin C**

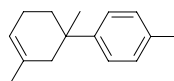
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)chromone $C_{16}H_{12}O_7$ (316.27). White-brownish crystals, mp 283~285°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20937 Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methyl-1,4-cyclohexadiene $C_{15}H_{20}$ (200.33). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

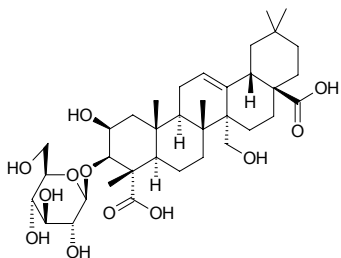
**20938 ar-Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methylbenzene $C_{15}H_{22}$ (202.34). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

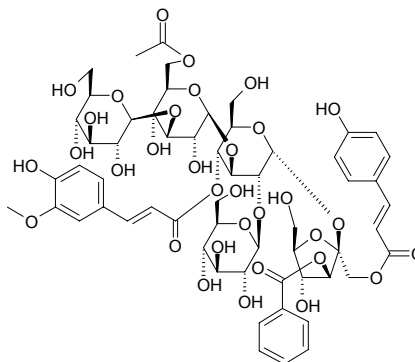


20939 Tenuifolin

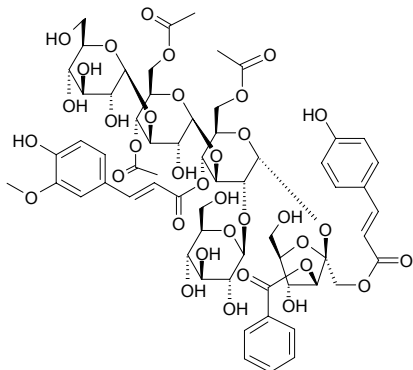
$C_{36}H_{56}O_{12}$ (680.84). mp 298–300°C. Source: YUAN ZHI *Polygala tenuifolia*.
Ref: 2.

**20942 Tenuifoliose C**

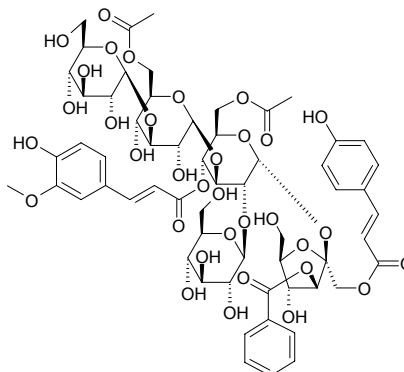
$C_{58}H_{72}O_{33}$ (1297.20). $[\alpha]_D = -52.8^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20940 Tenuifoliose A**

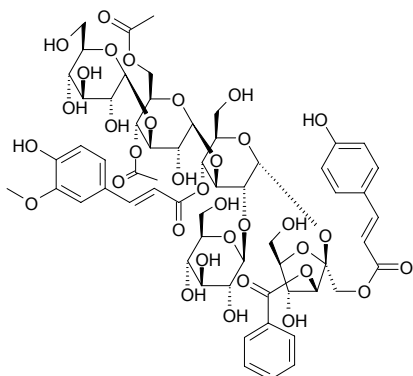
$C_{62}H_{76}O_{35}$ (1381.28). $[\alpha]_D = -32.8^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20943 Tenuifoliose D**

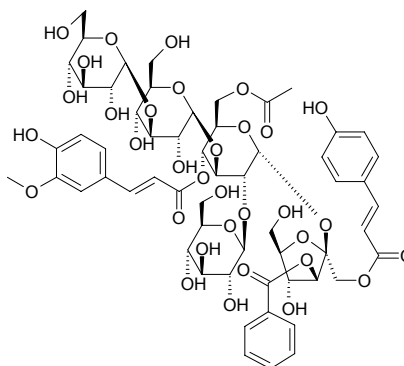
$C_{60}H_{74}O_{34}$ (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20941 Tenuifoliose B**

$C_{60}H_{74}O_{34}$ (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

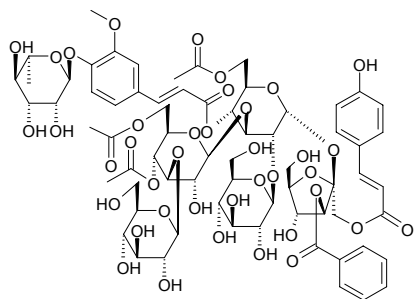
**20944 Tenuifoliose E**

$C_{58}H_{72}O_{33}$ (1297.20). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

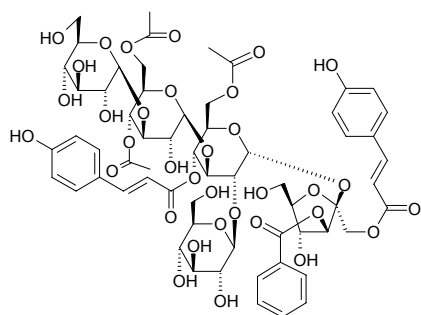


20945 Tenuifoliose F

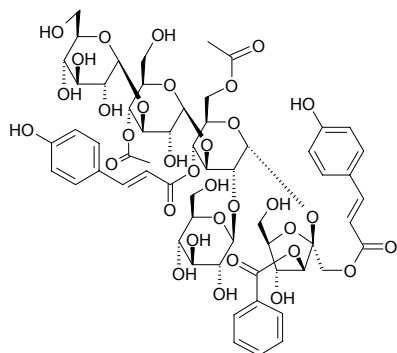
$C_{68}H_{86}O_{39}$ (1527.42). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20946 Tenuifoliose H**

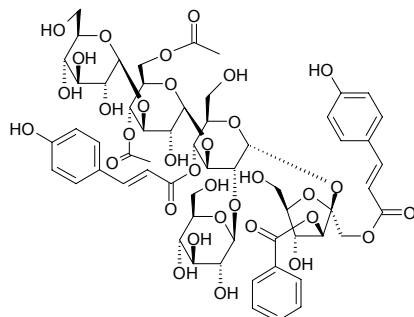
$C_{61}H_{74}O_{34}$ (1351.25). $[\alpha]_D = -26.3^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20947 Tenuifoliose I**

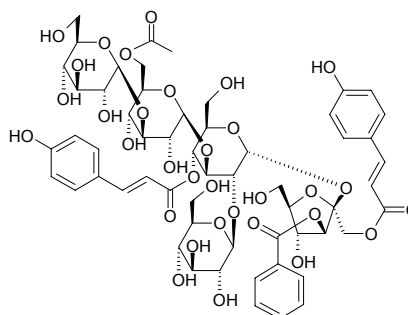
$C_{59}H_{72}O_{33}$ (1309.21). $[\alpha]_D = -9.1^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20948 Tenuifoliose J**

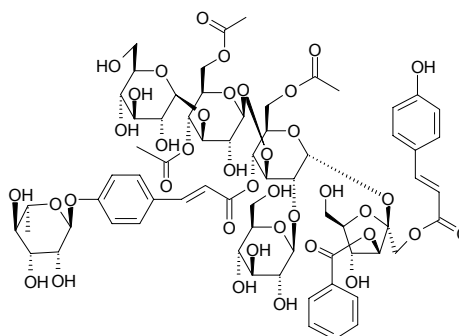
$C_{59}H_{72}O_{33}$ (1309.21). $[\alpha]_D = -35.9^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20949 Tenuifoliose K**

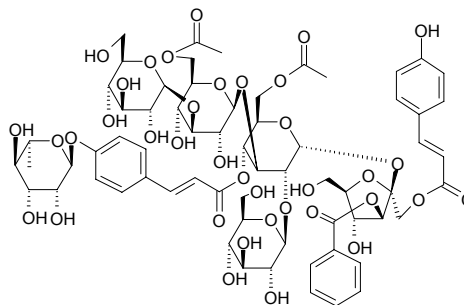
$C_{57}H_{70}O_{32}$ (1267.17). $[\alpha]_D = -3.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20950 Tenuifoliose L**

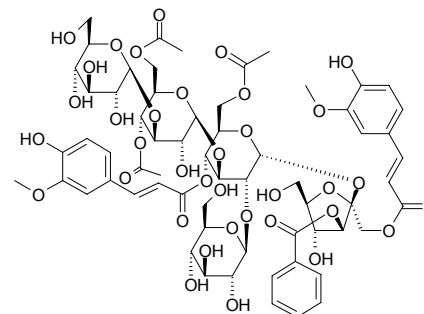
$C_{67}H_{84}O_{39}$ (1513.39). $[\alpha]_D = -59.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

**20951 Tenuifoliose M**

$C_{65}H_{82}O_{37}$ (1455.36). $[\alpha]_D = -29.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

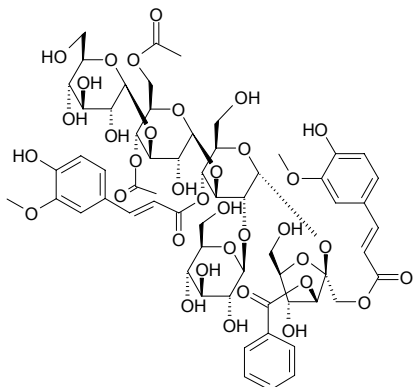
**20952 Tenuifoliose N**

$C_{63}H_{78}O_{36}$ (1411.30). $[\alpha]_D = -26.6^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

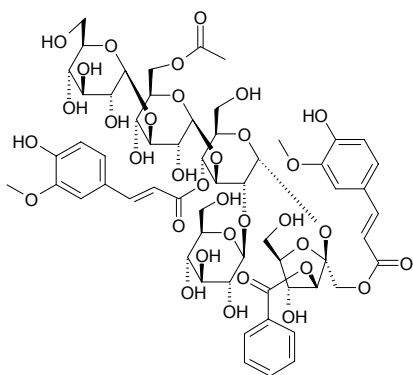


20953 Tenuifoliose O

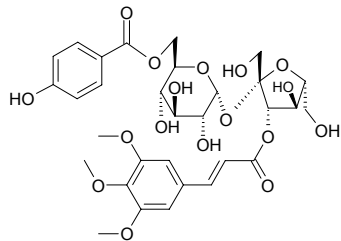
$C_{61}H_{76}O_{35}$ (1369.26). $[\alpha]_D = -17.4^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20954 Tenuifoliose P**

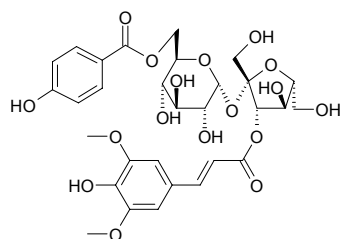
$C_{59}H_{74}O_{34}$ (1327.23). $[\alpha]_D = -7.7^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20955 Tenuifolioside A**

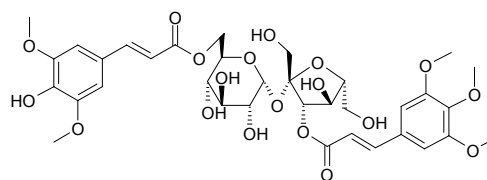
$C_{31}H_{38}O_{17}$ (682.64). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20956 Tenuifolioside B**

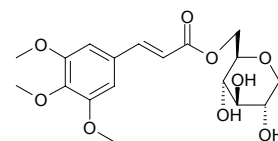
$C_{30}H_{36}O_{17}$ (668.61). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20957 Tenuifolioside C**

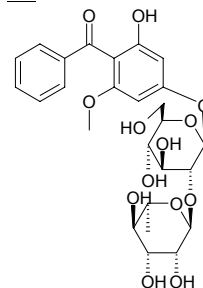
[139726-37-7] $C_{35}H_{44}O_{19}$ (768.73). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20958 Tenuifolioside D**

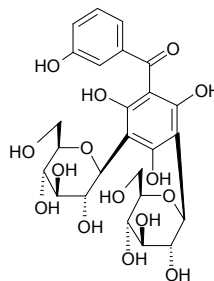
[139726-38-8] $C_{18}H_{24}O_9$ (384.39). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20959 Tenuiphenone A**

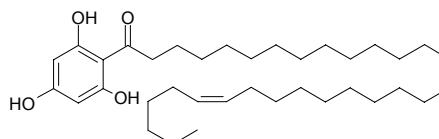
4-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-2-hydroxyl-6-methoxybenzophenone $C_{26}H_{32}O_{13}$ (552.54). Yellow amorphous powder, $[\alpha]_D^{25} = +62.3^\circ$ ($c = 0.10$, MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20960 Tenuiphenone B**

3,5-Di-C- β -glucopyranosyl-2,4,6,3'-tetrahydroxybenzophenone $C_{25}H_{30}O_{15}$ (570.51). Yellow amorphous powder, $[\alpha]_D^{25} = +61.3^\circ$ ($c = 0.11$, MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

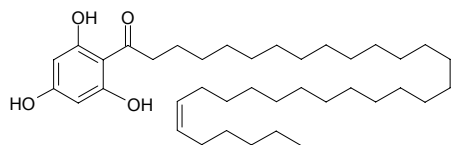
**20961 Tenuiphenone C**

2',4',6'-Trihydroxyphenyl-(24Z)-triacontene-1-one $C_{36}H_{62}O_4$ (558.89). White solid (acetone), mp 197–200°C. Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

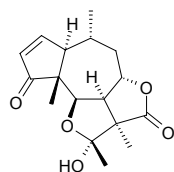


20962 Tenuiphenone D

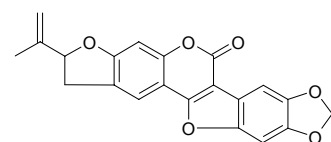
2',4',6'-Trihydroxyphenyl-(26Z)-dotriacontene-1-one C₃₈H₆₆O₄ (586.95).
White solid (acetone), mp 197~200°C. Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20963 Tenulin**

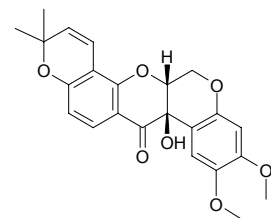
[19202-92-7] C₁₇H₂₂O₅ (306.36). mp 188~189°C, 196~198°C. Pharm: Anti-neoplastic (rat 2.5mg/(kg·d), mus 25mg/(kg·d), ip, W₂₅₆, biotic prolonged rate = 166%; leukemia P₃₈₈, biotic prolonged rate = 35%; EAC, InRt = 97%; KB *in vitro*, ED₅₀ = 26mg/mL); cytotoxic (Hep2 cells); toxin (field mus, mus and sheep); LD₅₀ (rat, ip) = 184.65mg/kg. Source: DUI XIN JU *Helenium autumnale*, KU WEI DUI XIN JU *Helenium amarum*, WEI MAO DUI XIN JU *Helenium puberulum*, XI YE DUI XIN JU *Helenium tenuifolium*, YA MEI DUI XIN JU *Helenium elegans*. Ref: 5, 658.

**20964 Tephcalostan**

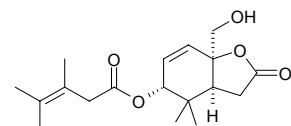
C₂₁H₁₄O₆ (362.34). Colorless needles (CHCl₃), mp 251~252°C, [α]_D²⁵ = -52° (c = 0.001, MeOH). Source: MEI LI YE HUI MAO DOU *Tephrosia calophylla* (whole herb). Ref: 4312.

**20965 (-)-Tephrosin**

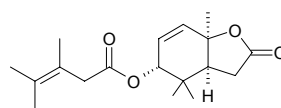
C₂₃H₂₂O₇ (410.43). mp 198°C. Pharm: Insect antifeedant. Source: GAO HUI MAO DOU *Tephrosia elata*, HUI YE GEN *Tephrosia purpurea*, YU TENG *Derris trifoliata*, ZI SUI HUAI *Amorpha fruticosa*. Ref: 6, 658, 4982.

**20966 3-Teracrylmelazolide A**

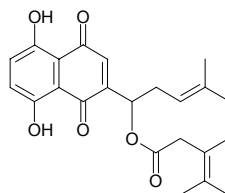
(-)-(3a*S*,5*R*,7a*R*)-4,4-Dimethyl-7a-hydroxymethyl-2-oxo-2,3,3a,4,5,7a-hexahydrobenzo[b]furan-5-yl 3,4-dimethyl-3-pentenoate C₁₈H₂₆O₅ (322.40). [α]_D = -226° (c = 0.26, EtOH). Source: KU LIAN PI *Melia azedarach*. Ref: 1962.

**20967 3-Teracrylmelazolide B**

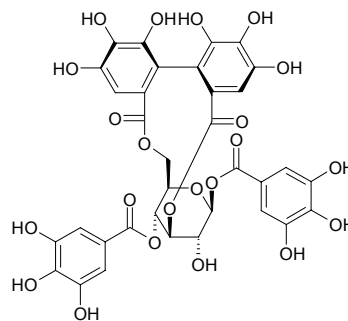
(3a*S*,5*R*,7a*R*)-4,4,7a-Trimethyl-2-oxo-2,3,3a,4,5,7a-hexahydrobenzo[b]furan-5-yl 3,4-dimethyl-3-pentenoate C₁₈H₂₆O₄ (306.41). Source: KU LIAN PI *Melia azedarach*. Ref: 1962.

**20968 3,4-Teracrylshikonin**

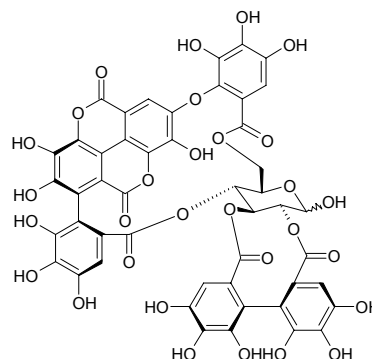
Teracrylshikonin [52438-11-6] C₂₃H₂₆O₆ (398.46). Red-purple amorphous substance, [α]_{600nm}²² = -92° (ethanol). Pharm: Antibacterial (*Bacillus subtilis*, *Staphylococcus aureus*, *Sarcina gamboge*); enhances contractility of main artery (rat, caused by adrenalin); platelet aggregation inhibitor (due to collagen, IC₅₀ = 2.8 μmol/L). Source: XIN ZANG JIA ZI CAO *Arnebia euchroma*, JIA ZI CAO *Arnebia guttata*, ZI CAO *Lithospermum erythrorhizon*. Ref: 2, 900, 2193.

**20969 Tercatain**

C₃₄H₂₆O₂₂ (786.57). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3094.

**20970 Terchebulin**

C₄₈H₂₈O₃₀ (1084.74). Source: HE ZI *Terminalia chebula*. Ref: 660.

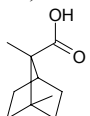


20971 Teresantaldehyde

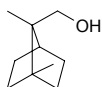
Teresantaldehyde $C_{10}H_{14}O$ (150.22). Source: TAN XIANG *Santalum album*. Ref: 660.

**20972 α -Teresantallic acid**

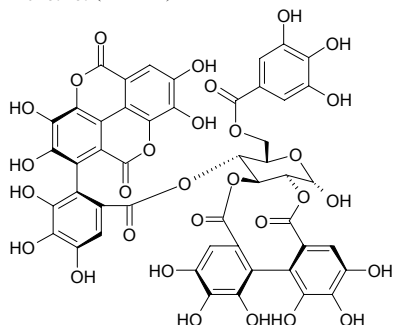
$C_{10}H_{14}O_2$ (166.22). mp 158°C. Source: TAN XIANG *Santalum album*. Ref: 6, 660, 1521.

**20973 Teresantalol**

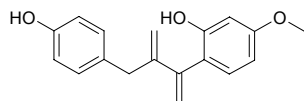
$C_{10}H_{16}O$ (152.24). Source: TAN XIANG *Santalum album*. Ref: 660.

**20974 Terflavin A**

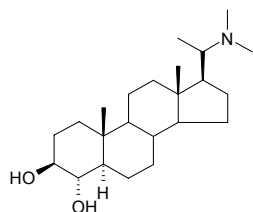
$C_{48}H_{30}O_{30}$ (1086.76). Source: HE ZI *Terminalia chebula*. Ref: 660.

**20975 Termilignan**

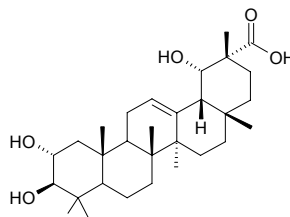
$C_{18}H_{18}O_3$ (282.34). Pharm: Anti-HIV; antimalarial; antifungal. Source: WEI MAO HE ZI *Terminalia chebula* var. *tomentella*. Ref: 2268.

**20976 Terminaline**

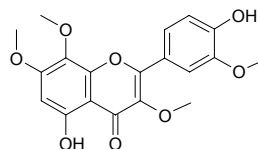
$C_{23}H_{41}NO_2$ (363.59). mp 243~244°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**20977 Terminoic acid**

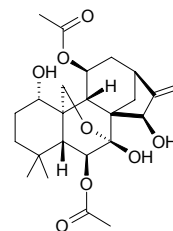
$C_{30}H_{48}O_5$ (488.71). Source: HE ZI *Terminalia chebula*. Ref: 660.

**20978 Ternatin**

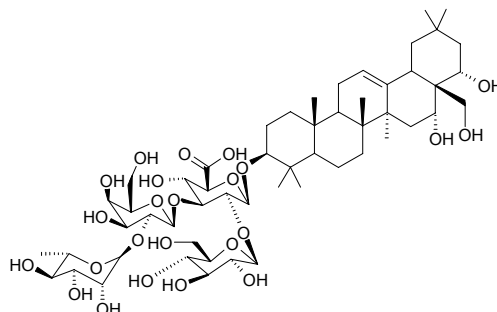
4',5-Dihydroxy-3,3',7,8-tetramethoxyflavone $C_{19}H_{18}O_8$ (374.35). Pharm: Anti-inflammatory (inhibits thioglycolate-elicited rat peritoneal neutrophil accumulation and LPS-activated nitric oxide production in murine macrophages)^[5448]. Source: GUANG JIE QIU HAI TANG *Begonia glabra*, MAO CHOU TAN *Evodia madagascariensis*, NIAN XING AI LEI JU *Egletes viscosa*, SAN CHI LA RUI A *Larrea tridentata*, *Melicope* spp. Ref: 660, 1521, 5448.

**20979 Ternifolin**

$C_{24}H_{34}O_8$ (450.53). mp 223~225°C, $[\alpha]_D^{29} = -48.09^\circ$ ($c = 0.815$, C_5H_5N). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

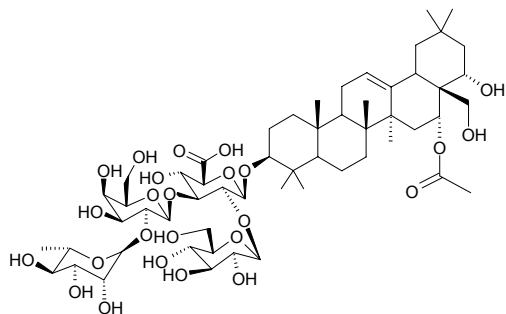
**20980 Ternstroemiaside A**

$C_{54}H_{88}O_{24}$ (1121.29). Colorless needles, mp 239~242°C, $[\alpha]_D^{20} = -29.3^\circ$ ($c = 0.3$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00061%fw). Ref: 4730.

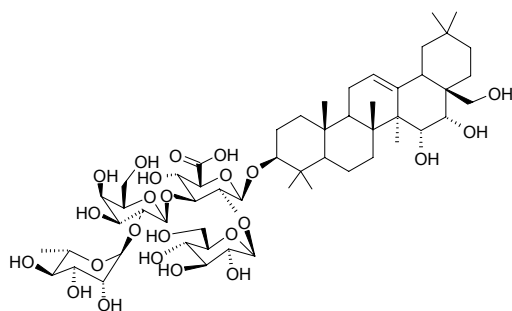


20981 Ternstroemiaside B

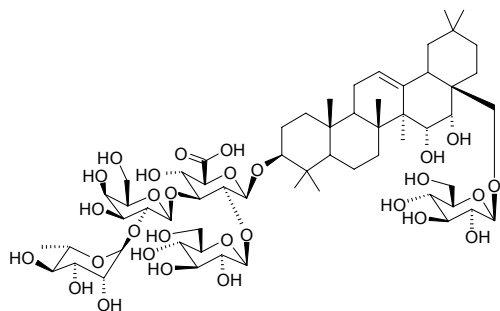
$C_{56}H_{90}O_{25}$ (1163.33). Colorless needles, mp 225–230°C, $[\alpha]_D^{20} = -30.9^\circ$ ($c = 0.5$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.0012%fw). Ref: 4730.

**20982 Ternstroemiaside C**

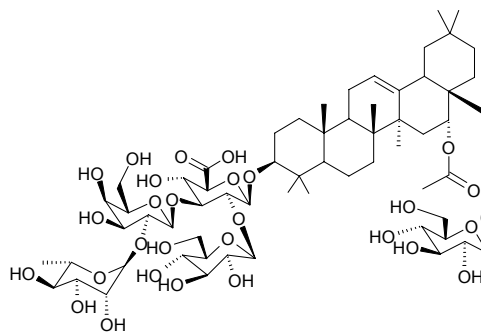
$C_{54}H_{88}O_{24}$ (1121.29). Colorless needles, mp 230–237°C, $[\alpha]_D^{20} = -18.3^\circ$ ($c = 0.5$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00077%fw). Ref: 4730.

**20983 Ternstroemiaside D**

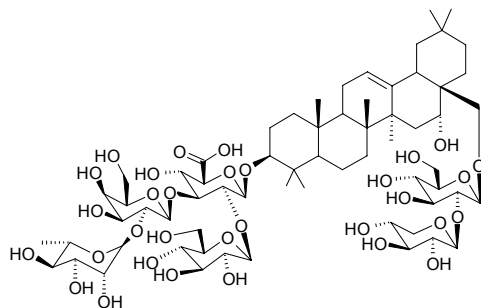
$C_{60}H_{98}O_{29}$ (1283.43). Colorless crystals, mp 231°C, $[\alpha]_D^{20} = -32.1^\circ$ ($c = 1.3$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.0043%fw). Ref: 4730.

**20984 Ternstroemiaside E**

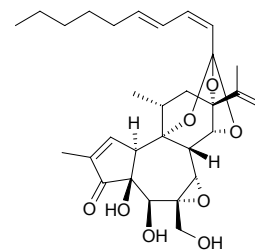
$C_{62}H_{100}O_{29}$ (1309.47). Colorless crystals, mp 228–230°C, $[\alpha]_D^{20} = -38.2^\circ$ ($c = 1.6$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00027%fw). Ref: 4730.

**20985 Ternstroemiaside F**

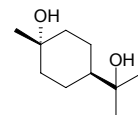
$C_{65}H_{106}O_{32}$ (1399.55). Colorless crystals, mp 216–222°C, $[\alpha]_D^{20} = -39.0^\circ$ ($c = 0.5$, MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00093%fw). Ref: 4730.

**20986 Terpenoid EA-1**

Excoecariatoxin; Excoecaria factor A₃; Excoecaria factor B₃ [92219-48-2]
 $C_{30}H_{40}O_8$ (528.65). Pharm: Fish toxin. Source: HAI QI *Excoecaria agallocha*.
Ref: 658, 1515.

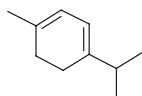
**20987 Terpin**

$C_{10}H_{20}O_2$ (172.27). *R*-hydrate, rhomboid crystals (water), mp 116–117°C, heated slowly to 100°C, sublimating; anhydride, mp 104–105°C, bp 258°C. Pharm: Antitussive (dispels phlegm, *cis*-form hydrate). Source: XUE SONG *Cedrus deodara*. Ref: 661.

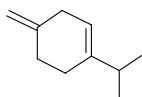


20988 α -Terpinene

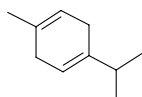
[99-86-5] C₁₀H₁₆ (136.24). bp 173.5~174.8°C/755mmHg. **Pharm:** Anti-inflammatory (NO production inhibitor)^[4415]. **Source:** DA YE XIANG RU *Mosla dianthera*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DU QIN GEN *Cicuta virosa*, FENG XIANG SHU *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], HU SUI ZI *Coriandrum sativum*, HUI XIANG *Foeniculum vulgare*, HUO MA REN *Cannabis sativa*, JU PI *Citrus reticulata*, NAN HE SHI *Daucus carota*, TIAN MING JING *Carpesium abrotanoides*, WU WEI ZI *Schisandra chinensis*, XIANG ZHANG *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 660, 4415.

**20989 β -Terpinene**

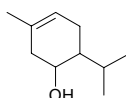
C₁₀H₁₆ (136.24). bp 173~174°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**20990 γ -Terpinene**

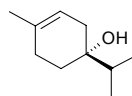
[99-85-4] C₁₀H₁₆ (136.24). bp 183°C. **Pharm:** Antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 6.25mg/mL; *Candida albicans* KCCM11282, MFC > 6.25mg/mL; *Candida utilis* KCCM11356, MFC > 6.25mg/mL; *Cryptococcus neoformans* KCCM0564, MFC > 6.25mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 3.12mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.39mg/mL; *Blastoschizomyces capitatus* KCCM50270, MFC > 6.25mg/mL)^[4079]. **Source:** HUANG HUA HAO *Artemisia annua*, JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*. **Ref:** 2, 660, 4079.

**20991 1-Terpinen-5-ol**

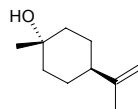
C₁₀H₁₈O (154.25). **Source:** HU JIAO *Piper nigrum*. **Ref:** 660.

**20992 Terpinen-4-ol**

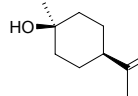
Terpinen-4-ol [562-74-3] C₁₀H₁₈O (154.25). **Pharm:** Antiasthmatic; antibacterial (*Bacillus thuringiensis*, *in vitro*); anti-inflammatory (modulator of cytokine network: suppresses formation of TNF- α , IL-1 β , IL-8, IL-10 in LPS-activated hmn peripheral blood monocytes)^[4416]. **Source:** AI YE *Artemisia argyi* (leaf: content scope = 0.013%~0.018%^[5501]), HOU PO *Magnolia officinalis*, HUA JIAO *Zanthoxylum bungeanum*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAN QIAO *Forsythia suspensa*, NAN HE SHI *Daucus carota*, QIANG HUO *Notopterygium incisum*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, HU SHENG YE BAI QIAN CENG *Melaleuca alternifolia*. **Ref:** 2, 658, 660, 4416, 5501.

**20993 cis- β -Terpineol**

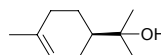
C₁₀H₁₈O (154.25). mp 32~33°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, MI DIE XIANG *Rosmarinus officinalis*, MA HUANG *Ephedra sinica*. **Ref:** 2, 6, 660.

**20994 trans- β -Terpineol**

C₁₀H₁₈O (154.25). mp 32~33°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, MI DIE XIANG *Rosmarinus officinalis*, MA HUANG *Ephedra sinica*. **Ref:** 2, 6, 660.

**20995 α -Terpineol**

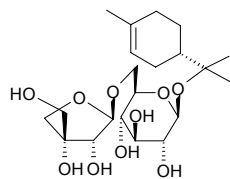
[98-55-5] C₁₀H₁₈O (154.25). mp (+) 36.9°C, (-) 37°C, (\pm) 40~41°C, bp (+) 104°C/15mmHg, (\pm) 218.8~219.4°C/752mmHg. **Pharm:** Antiasthmatic (bronchial smooth muscle relaxant, gpg); LD₅₀ (mus, orl) = 12.08mL/kg. **Source:** AI YE *Artemisia argyi* (leaf: content scope = 0.0094%~0.0105%^[5501]), BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BAI LI XIANG *Thymus serpyllum*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], CHAI HU *Bupleurum chinense*, GANG SONG *Baeckea frutescens*, HOU PO *Magnolia officinalis*, HUA JIAO *Zanthoxylum bungeanum* (pericarp: content scope = 0.00302%~0.00604%^[5501]), HUANG HUA HAO *Artemisia annua*, JIN XIAN CAO *Glechoma longituba*, JIN YIN HUA *Lonicera japonica*, JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, LUO HUA SHENG *Arachis hypogaea*, MA HUANG *Ephedra sinica*, MAN JING ZI *Vitex trifolia*, MI DIE XIANG *Rosmarinus officinalis*, SHAN XING REN *Prunus armeniaca* var. *ansu*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, XING REN *Prunus armeniaca*, YIN CHEN HAO *Artemisia capillaris*, occurs in many plants. **Ref:** 2, 658, 660, 5501.



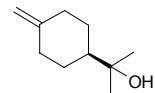
20996 (4S)- α -Terpineol**O- β -D-Apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

C₂₁H₃₆O₁₀ (448.52). Amorphous powder, $[\alpha]_D^{22} = -65^\circ$ ($c = 0.28$, MeOH).

Source: XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). Ref: 4184.

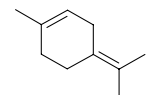
**20997 δ -Terpineol**

C₁₀H₁₈O (154.25). Source: BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*]. Ref: 6.

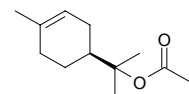
**20998 Terpinolene**

p-Mentha-1,4(8)-diene; Isoterpinene [586-62-9] C₁₀H₁₆ (136.24). bp 186°C.

Source: DAI DAI HUA *Citrus aurantium* var. *amara*, FEI ZHOU LUO LE *Ocimum kilimandscharicum*, HUI XIANG *Foeniculum vulgare*, JU PI *Citrus reticulata*, KONG SHI CHUN *Ulva pertusa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHAN XING REN *Prunus armeniaca* var. *ansu*, SHENG JIANG *Zingiber officinale*, SHUI QIN *Oenanthe javanica*, SHUI SONG *Codium fragile*, XI XIN *Asarum sieboldii*, XIE CAO *Valeriana officinalis*, XING REN *Prunus armeniaca*, ZI CAI *Porphyra tenera*. Ref: 2, 660.

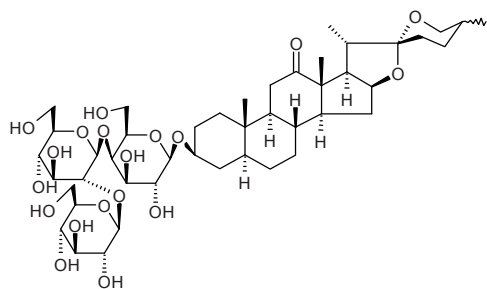
**20999 Terpinyl acetate**

Terpeneol acetate [80-26-2] C₁₂H₂₀O₂ (196.29). bp (+) 140°C/40mmHg, (\pm) 104–106°C/11mmHg. Source: MAN JING YE *Vitex trifolia*, HUANG HUA HAO *Artemisia annua*. Ref: 6, 660.

**21000 Terreside A**

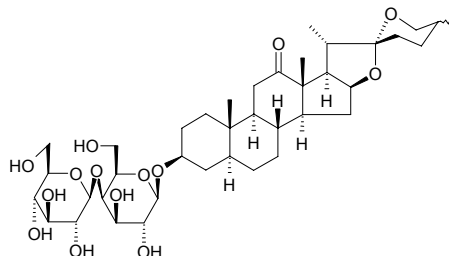
Neohecogenin-3-O- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside C₄₅H₇₂O₁₉ (917.06). White powder, mp 273–275°C.

Source: CI JI LI *Tribulus terrestris*. Ref: 2128.

**21001 Terreside B**

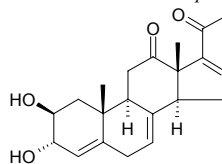
Neohecogenin-3-O- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₃₉H₆₂O₁₄ (754.92). White powder, mp 263–265°C. Source: CI JI LI *Tribulus terrestris*. Ref: 2128.

**21002 Terresterone A**

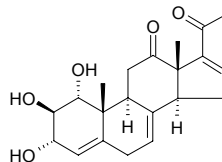
2 β ,3 α -Dihydroxypregna-4,7,16-trien-12,20-dione C₂₁H₂₆O₄ (342.44).

Amorphous yellowish solid, $[\alpha]_D^{20} = +502.5^\circ$ ($c = 0.04$, CHCl₃). Source: LU SHENG GE JUN *Thelephora terrestris*. Ref: 4446.

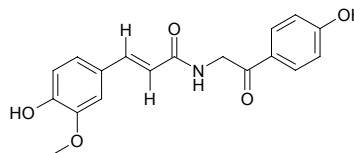
**21003 Terresterone B**

1 α ,2 β ,3 α -Trihydroxypregna-4,7,16-trien-12,20-dione C₂₁H₂₆O₅ (358.44).

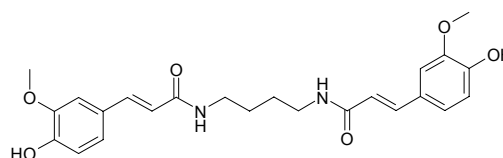
Amorphous colorless solid, $[\alpha]_D^{20} = +108.6^\circ$ ($c = 1.0$, CHCl₃). Source: LU SHENG GE JUN *Thelephora terrestris*. Ref: 4446.

**21004 Terrestriamide**

C₁₈H₁₇NO₅ (327.34). Yellowish crystals, mp 218–220°C. Source: CI JI LI *Tribulus terrestris*. Ref: 295.

**21005 Terrestribisamide**

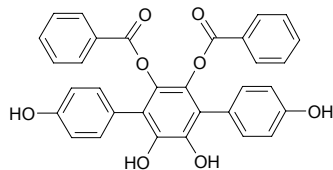
C₂₄H₂₈N₂O₆ (440.50). Colorless powder (MeOH), mp 143–145°C. Source: CI JI LI *Tribulus terrestris*. Ref: 1881.



21006 Terrestrin A

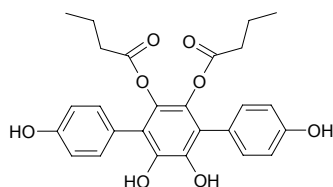
$C_{34}H_{26}O_8$ (562.58). Colorless crystals (methanol–water), mp 220–223°C.

Source: LU SHENG GE JUN *Thelephora terrestris*. Ref: 5276.

**21007 Terrestrin B**

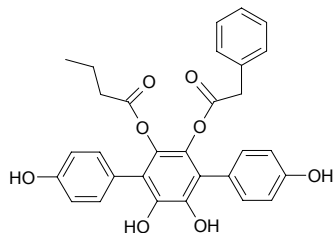
$C_{26}H_{26}O_8$ (466.49). Reddish violet solid. Source: LU SHENG GE JUN

Thelephora terrestris. Ref: 5276.

**21008 Terrestrin C**

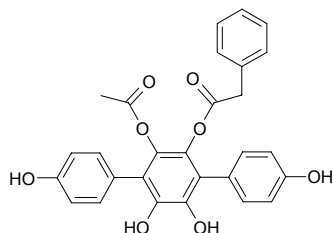
$C_{30}H_{26}O_8$ (514.54). Reddish solid. Source: LU SHENG GE JUN *Thelephora*

terrestris. Ref: 5276.

**21009 Terrestrin D**

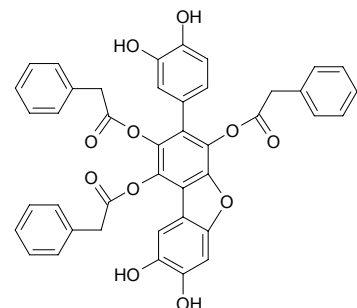
$C_{28}H_{22}O_8$ (486.48). Grayish violet solid. Source: LU SHENG GE JUN

Thelephora terrestris. Ref: 5276.

**21010 Terrestrin E**

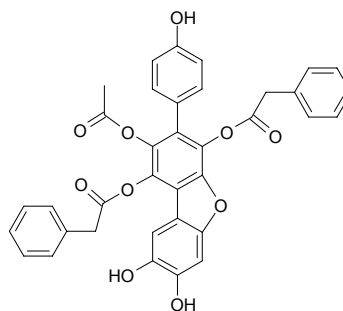
$C_{42}H_{30}O_{11}$ (710.70). Greenish gray solid. Source: LU SHENG GE JUN

Thelephora terrestris. Ref: 5276.

**21011 Terrestrin F**

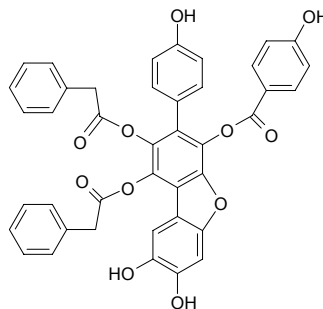
$C_{36}H_{26}O_{10}$ (618.60). Bluish solid. Source: LU SHENG GE JUN *Thelephora*

terrestris. Ref: 5276.

**21012 Terrestrin G**

$C_{41}H_{28}O_{11}$ (696.67). Grayish solid. Source: LU SHENG GE JUN *Thelephora*

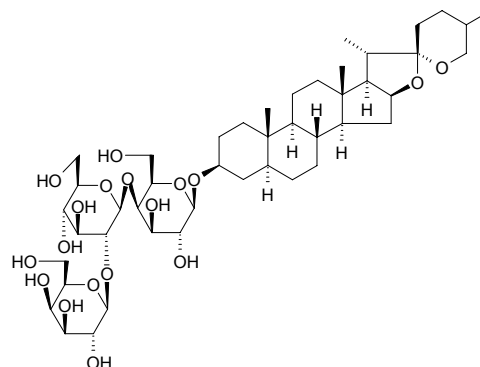
terrestris. Ref: 5276.

**21013 Terrestrosin A**

(3 β ,5 α)-Spirostan-3-yl *O*- β -D-galactopyranosyl-(1 \rightarrow 2)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside [179799-23-6] $C_{45}H_{74}O_{18}$ (903.08).

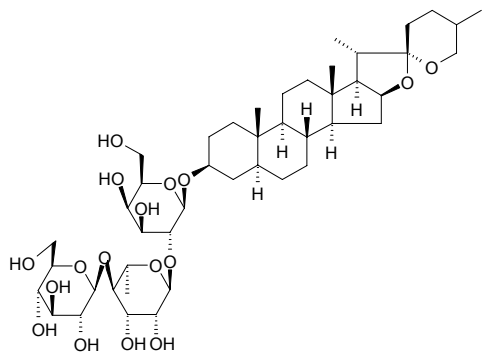
Acicular crystals (MeOH), mp 227–230°C, $[\alpha]_D^{24} = -56.5^\circ$ ($c = 0.65$, pyridine).

Source: CI JI LI *Tribulus terrestris*. Ref: 706.

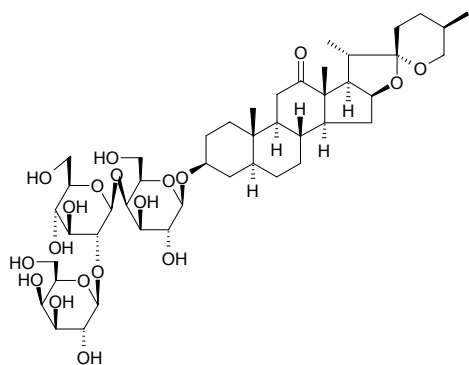


21014 Terrestrosin B

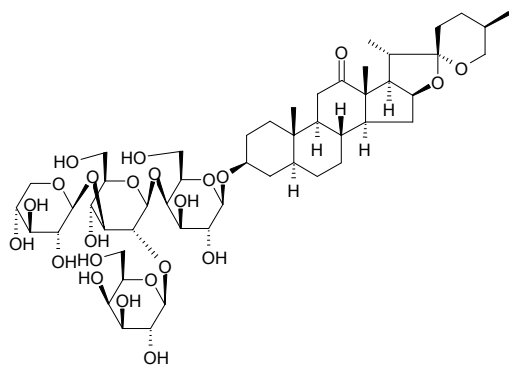
(3 β ,5 α)-Spirostan-3-yl *O*-6-deoxy- α -*L*-mannopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-galactopyranoside [179464-22-3] C₄₅H₇₄O₁₇ (887.08). Acicular crystals (MeOH-CHCl₃), mp 296~300°C, [α]_D²⁴ = -90.5° (*c* = 0.22, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21015 Terrestrosin C**

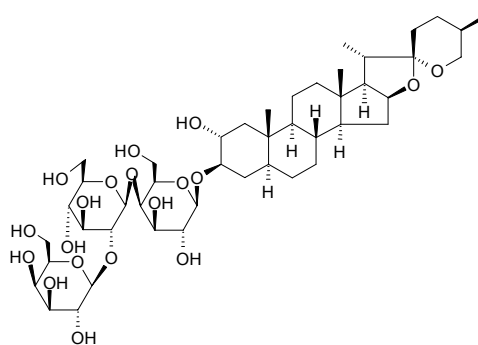
(3 β ,5 α)-3-[(*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-spirostan-12-one [179799-24-7] C₄₅H₇₂O₁₉ (917.06). Microneedles (MeOH), mp 213~215°C, [α]_D²⁴ = -16.4° (*c* = 0.91, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21016 Terrestrosin D**

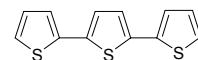
(3 β ,5 α ,25*R*)-3-[(*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-spirostan-12-one [179464-23-4] C₅₀H₈₀O₂₃ (1049.18). Microneedles (MeOH), mp 277~279°C, [α]_D²⁴ = -20.4° (*c* = 1.13, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21017 Terrestrosin E**

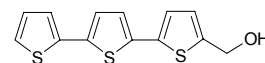
(2 α ,3 β ,5 α)-Hydroxyspirostan-3-yl *O*- β -*D*-galactopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside [179799-25-8] C₄₅H₇₂O₁₉ (919.08). Acicular crystals (MeOH), mp 222~225°C, [α]_D²⁴ = -30° (*c* = 1.14, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21018 α -Terthienyl**

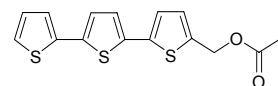
[1081-34-1] C₁₂H₈S₃ (248.39). mp 92~93°C. Pharm: Antibacterial; nematocide. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*], WAN SHOU JU *Tagetes erecta*. Ref: 6, 619, 658.

**21019 α -Terthienyl methanol**

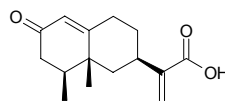
C₁₃H₁₀OS₃ (278.42). mp 150~151°C. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. Ref: 6.

**21020 α -Terthienyl methyl acetate**

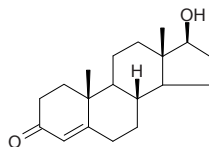
C₁₅H₁₂O₂S₃ (320.45). mp 114~116°C. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. Ref: 6.

**21021 Tessaric acid**

C₁₅H₂₀O₃ (248.32). Colorless needles (Me₂CO), mp 157~158°C, [α]_D²⁰ = -156.2° (*c* = 0.3, CHCl₃). Source: LIU LENG JU *Laggera alata* (aerial parts; yield = 0.00083%dw). Ref: 4709.

**21022 Testosterone**

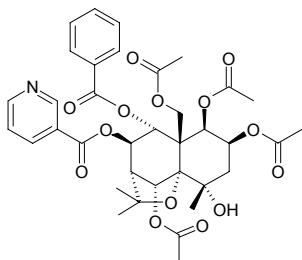
17 β -Hydroxyandros-4-en-3-one [58-22-0] C₁₉H₂₈O₂ (288.43). mp 154.0~154.5°C. Pharm: Androgen; antibacterial (*Bacillus subtilis*, *Escherichia coli* and *Sarcina citrea*). Source: OU ZHOU CHI SONG *Pinus sylvestris*, SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2, 658.



21023 1 β ,2 β ,5 α ,11-Tetraacetoxy-8 α -benzoyl-4 α -hydroxy-7 β -nicotinoyl-dihydroagarofuran

C₃₆H₄₁NO₁₄ (711.73). Amorphous powder, $[\alpha]_D^{25} = -38.4^\circ$ ($c = 1.0$, MeOH).

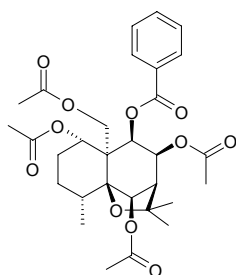
Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 758.



21024 1 α ,6 β ,8 β ,14-Tetraacetoxy-9 β -benzoyloxydihydro- β -agarofuran

C₃₀H₃₈O₁₁ (574.63). White amorphous powder, $[\alpha]_D^{25} = -4.18^\circ$ ($c = 0.19$, MeOH).

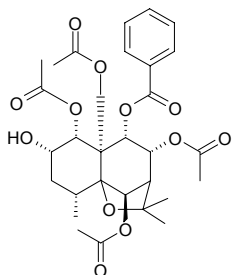
Pharm: Intestinal smooth muscle relaxant (*in vitro*, rat ileum, 1 μ g/mL, relaxant effect = (26.9 \pm 3.7)%, control Papaverine, relaxant effect = (28.6 \pm 7.3)%, $p < 0.05$). Source: DENG YOU TENG ZI *Celastrus paniculatus*. Ref: 5002.



21025 1 α ,6 β ,8 α ,13-Tetraacetoxy-9 α -benzoyloxy-2 α -hydroxy- β -dihydro-agarofuran

C₃₀H₃₈O₁₂ (590.63). Amorphous white powder, mp 99~100°C, $[\alpha]_D^{24} = -19.9^\circ$

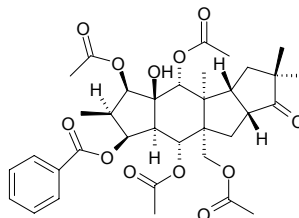
($c = 0.66$, CHCl₃). Pharm: Insecticidal (*Mythimna separata*, KD₅₀ = 388.0 μ g/g). Source: DIAO GAN MA *Celastrus angulatus* (root cortex). Ref: 5228.



21026 1 β ,5 α ,14 α ,17 α -Tetraacetoxy-3 β -benzoyloxy-15 β -hydroxy-9-oxo-paraliane

C₃₅H₄₄O₁₂ (656.73). Amorphous solid, $[\alpha]_D^{25} = -31.8^\circ$ ($c = 0.10$, CHCl₃).

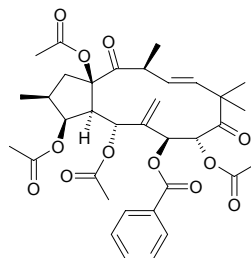
Pharm: Multidrug resistance (MDR) reversing activity (hmn MDR1 gene transfected mouse lymphoma cells, FSC: forward scatter count = 558.42, DMSO control = 519.74; SSC: side scatter count = 235.41, DMSO control = 234.67; FL-1: fluorescence intensity = 25.68, DMSO control = 5.92). Source: BO TE LAN DA JI *Euphorbia portlandica* (whole herb). Ref: 4919.



21027 3 β ,5 α ,8 α ,15 β -Tetraacetoxy-7 β -benzoyloxyjatropa-6(17),11E-dien-9,14-dione

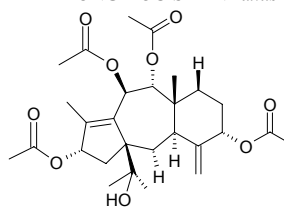
C₃₅H₄₂O₁₂ (654.72). Colorless crystals, mp 230~231°C, $[\alpha]_D^{25} = +88.3^\circ$ ($c = 0.49$,

CHCl₃). Pharm: Cytotoxic (*in vitro*, B16 melanoma cell line, IC₅₀ > 5 μ g/mL, no significant cytotoxicity); irritant inactive (mouse ear inflammation model, ID₅₀ > 100 μ g/ear). Source: *Euphorbia turczaninowii* (whole herb). Ref: 3078.

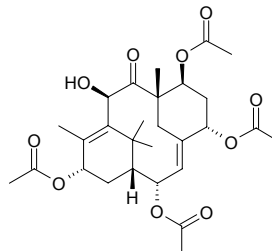


21028 5 α ,9 α ,10 β ,13 α -Tetraacetoxy-15-hydroxy-11(15→1)-abeo-taxa-4(20),11-diene

C₂₈H₄₀O₉ (520.63). Oily compound, $[\alpha]_D^{20} = +85^\circ$ (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (bark). Ref: 4245.

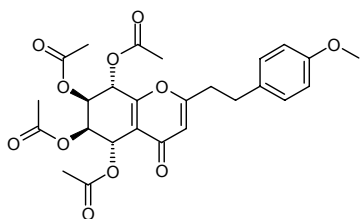


21029 2 α ,5 α ,7 β ,13 α -Tetraacetoxy-10 β -hydroxy-2(3→20)abeotaxan-9-one
[260367-31-5] C₂₈H₃₈O₁₀ (534.61). Colorless gum, $[\alpha]_D^{25} = -11.2^\circ$ ($c = 0.002$, CHCl₃). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 2414.



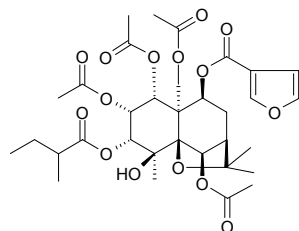
21030 5 α ,6 β ,7 β ,8 α -Tetraacetoxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydro-chromone

AH1a C₂₆H₂₈O₁₁ (516.51). Amorphous crystals, mp 58~60°C (dec), [α]_D = -14.3°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



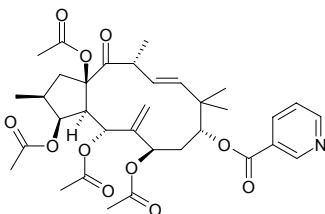
21031 1 α ,2 α ,6 β ,15-Tetraacetoxy-3 α -(α -methyl)-butanoyl-4 β -hydroxy-9 β -(β -)furoxyloxy- β -dihydroagarofuran

C₃₃H₄₄O₁₅ (680.71). Colorless gum, [α]_D²⁰ = +26° (c = 1.10, CHCl₃). Pharm: Cytotoxic (*in vitro*, Bel7402 liver carcinoma, IC₅₀ = 50.69 μ g/mL, control Etoposide, IC₅₀ = 7.00 μ g/mL). Source: *Euonymus nanoides* (seed). Ref: 4962.



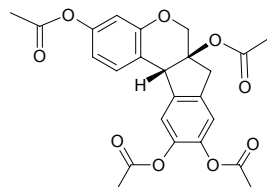
21032 3,5,7,15-Tetraacetoxy-9-nicotinoyloxy-14-oxojatropha-6(17),11- diene

C₃₄H₄₃NO₁₁ (641.72). Source: BO AI DA JI *Euphorbia peplus*. Ref: 2309.



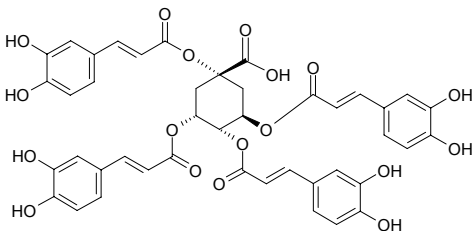
21033 Tetraacetylbrasilin

C₂₄H₂₂O₉ (454.44). mp 155~157°C. [α]_D²³ = +64.0° (c = 1.08, CHCl₃). Source: SU MU *Caesalpinia sappan*. Ref: 508.



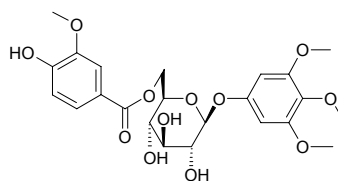
21034 1,3,4,5-Tetracaffeoylquinic acid

C₄₃H₃₆O₁₈ (840.75). Pharm: Antibacterial (*Bacillus subtilis*, *Escherichia coli* and *Sarcina citrea*). Source: family Asteraceae spp. Ref: 658.



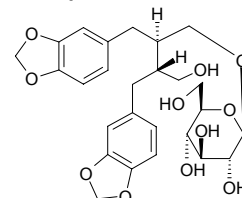
21035 Tetracentronside A

3,4,5-Trimethoxyphenyl-*O*-6'-*O*-vanilloyl- β -*D*-glucopyranoside C₂₃H₂₈O₁₂ (496.47). White acicular crystals, mp 125~126°C, [α]_D²⁵ = -43.6° (c = 0.234, MeOH). Source: SHUI QING SHU *Tetracentron sinense*. Ref: 770.



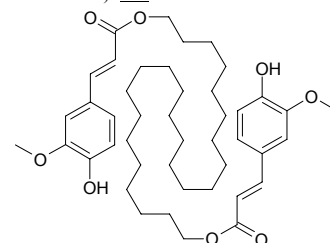
21036 Tetracentronside B

(8*R*,8'*R*) 9- β -*D*-Glucopyranosyl dihydrocubebin C₂₆H₃₂O₁₁ (520.54). White acicular crystals, mp 156~157°C, [α]_D²⁵ = -12.1° (c = 0.28, MeOH). Source: SHUI QING SHU *Tetracentron sinense*. Ref: 770.



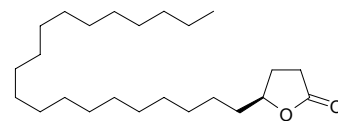
21037 1,24-Tetracosanediol diferulate

C₄₄H₆₆O₈ (723.01). Pharm: Cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100 μ mol/L). Source: LANG DANG ZI *Hyoscyamus niger* (seed; yield = 0.0002%dw). Ref: 4607.



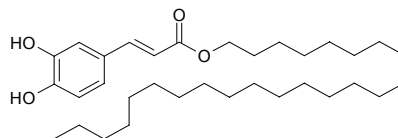
21038 Tetracosan-4-olide

C₂₄H₄₆O₂ (366.63). White powder, mp 68°C (Hexane:EtOAc = 9:1). Pharm: Phytotoxin inactive (doesn't inhibit radicle growth of *Amaranthus hypochondriacus* and *Echinochloa crusgalli*); CaM interactor inactive. Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.



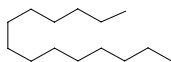
21039 Tetracosyl caffeate

C₃₃H₅₆O₄ (516.81). Brown grained crystals (EtOAc), mp 93.2~94.7°C. Source: XIA CAO *Gypsophila oldhamiana* (root), ZI CAO *Lithospermum erythrorhizon*. Ref: 2193, 4877.

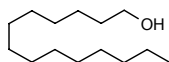


21040 Tetradecane

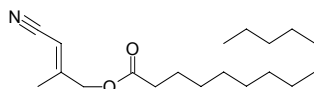
[629-59-4] C₁₄H₃₀ (198.40). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**21041 1-Tetradecanol**

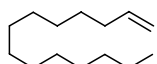
Myristic alcohol [112-72-1] C₁₄H₃₀O (214.39). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DANG GUI *Angelica sinensis*. Ref: 2.

**21042 3-O-Tetradecanoyl-1-cyano-2-methyl-1-propene**

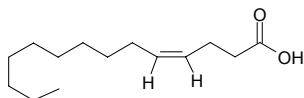
3-Methyl-4-tetradecanoyloxy-2-butenitrile C₁₉H₃₃NO₂ (307.48). White solid, mp 49–51°C. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 849.

**21043 1-Tetradecene**

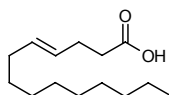
[1120-36-1] C₁₄H₂₈ (196.38). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**21044 cis-4-Tetradecenoic acid**

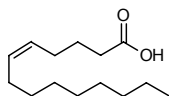
C₁₄H₂₆O₂ (226.36). mp 18.0–18.5°C, bp 185–188°C/13mmHg. Source: ZHEN CAI *Litsea pungens*. Ref: 6.

**21045 Tetradecenoic acid A**

Tsuzuic acid C₁₄H₂₆O₂ (226.36). Source: BING LANG *Areca catechu*, SAN ZUAN FENG *Lindera obtusiloba* (seed oil). Ref: 2, 660.

**21046 Tetradecenoic acid B**

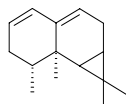
Physeteric acid; 5-Tetradecenoic acid [5684-70-8] C₁₄H₂₆O₂ (226.36). mp 20°C, bp 192–197°C/15mmHg, d₄¹⁵ = 0.908, n_D¹⁵ = 1.4571. Source: BING LANG *Areca catechu*, MO XIANG JING *Physeter catodon*, XI XIAO LUO ZAO *Euglena gracilis*. Ref: 2, 1521.

**21047 Tetradec-8,10,12-triyn-6-ene-3-one**

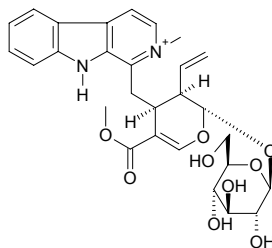
C₁₄H₁₄O (198.27). Source: AI YE *Artemisia argyi*. Ref: 6.

**21048 1,2,9,10-Tetrahydroaristolane**

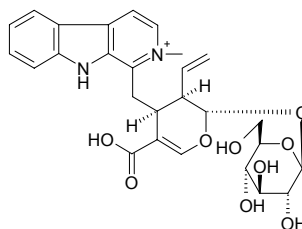
C₁₅H₂₂ (202.34). Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**21049 3,4,5,6-Tetrahydrodolicchantoside**

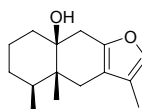
C₂₈H₃₃N₂O₉⁺ (541.58). Brownish-yellow amorphous powder. Source: *Strychnos meliodora*. Ref: 2345.

**21050 3,4,5,6-Tetrahydropalicoside**

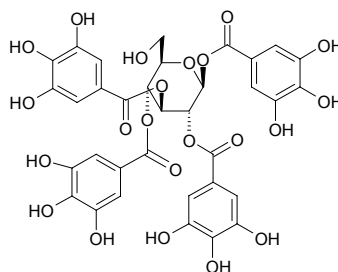
C₂₇H₃₁N₂O₉⁺ (527.56). Brownish-yellow amorphous powder. Source: *Strychnos meliodora*, *Strychnos vanprukii* (stem). Ref: 2345, 3471.

**21051 Tetradyamol**

C₁₅H₂₂O₂ (234.34). Pharm: Hepatotoxin; LD₅₀ (mus, orl) = 250mg/kg. Source: GUANG SI SHI JU *Tetradymia glabrata*. Ref: 658.

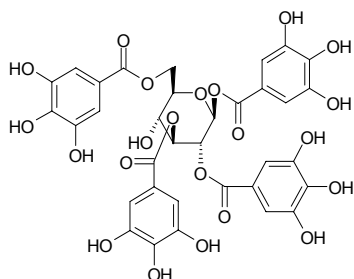
**21052 1,2,3,4-Tetragalloyl-α-D-glucose**

C₃₄H₂₈O₂₂ (788.59). Pharm: Antibacterial (*Staphylococcus aureus* and *Proteus vulgaris*). Source: BAN YE PING PENG CAO *Nuphar variegatum*. Ref: 658.

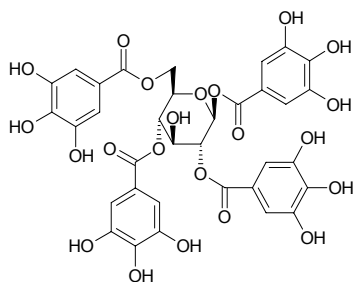


21053 1,2,3,6-Tetra-O-galloyl- β -D-glucose

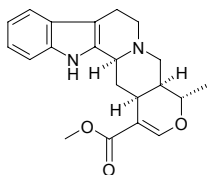
[79886-50-3] $C_{34}H_{28}O_{22}$ (788.59). **Pharm:** Aldose reductase inhibitor (rat, eye lens, $1.0\mu\text{mol/L}$ InRt = 77.6%, $IC_{50} = 0.63\mu\text{g/mL}$); xanthinoxidase inhibitor ($IC_{50} = 12\mu\text{mol/L}$); topoisomerase II inhibitor ($IC_{100} = 0.2\mu\text{mol/L}$). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice)^[3094], BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0017%fw)^[4695], CHI SHAO *Paeonia lactiflora* wild, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 2, 660, 1704, 1705, 1706, 3094, 4205, 4695.

**21054 1,2,4,6-Tetra-O-galloyl- β -D-glucose**

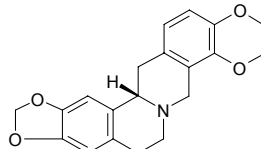
$C_{34}H_{28}O_{22}$ (788.59). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**21055 Tetrahydroalstonine**

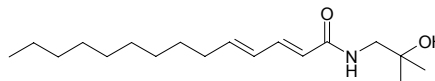
(3 α)-3,4,5,6-Tetrahydroalstonine $C_{21}H_{24}N_2O_3$ (352.44). White crystals, mp 300~310°C, $[\alpha]_D^{23.2} = -106.77^\circ$ ($c = 0.48$, $CHCl_3$). **Pharm:** Antibacterial (40 types of bacteria and fungi); anti-inflammatory (rat, swollen foot caused by carrageenan, 125mg/kg orl); hypoglycemic (rat, hyperglycemia induced by alloxan, 125mg/kg, orl); used in treatment of cerebral thrombosis and atherosclerosis; vasodilator (cerebral and peripheral). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CUI TU LUO FU MU *Rauwolfia vomitoria*, XIANG PI MU *Alstonia scholaris*, YANG JIAO MIAN *Alstonia mairei*, YOU XIAN YA JIAO SHU *Alstonia stricta*. **Ref:** 4, 633, 658, 660.

**21056 (-)-Tetrahydroberberine**

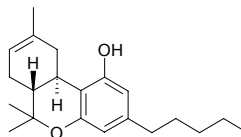
[29074-38-2] $C_{20}H_{21}NO_4$ (339.39). **Pharm:** Anti-HIV inactive (H9 lymphocytes, control AZT, $IC_{50} = 500\mu\text{g/mL}$, $EC_{50} = 0.0317\mu\text{g/mL}$, TI = 15800)^[5364]. **Source:** JI YING SU *Argemone mexicana*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtchaninovi* f. *yanhusuo*] (rhizome: mean content of 4 origins = yield = 0.019%^[5508]). **Ref:** 2, 5364, 5508.

**21057 Tetrahydrobungeanol**

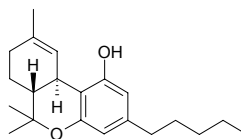
$C_{18}H_{33}NO_2$ (295.47). **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifolium*. **Ref:** 2176.

**21058 Δ^8 -Tetrahydrocannabinol**

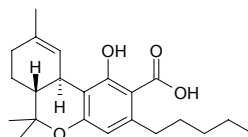
Δ^8 -THC $C_{21}H_{30}O_2$ (314.47). **Source:** MA HUA *Cannabis sativa*. **Ref:** 6.

**21059 Δ^9 -Tetrahydrocannabinol**

Δ^9 -THC [1972-08-3] $C_{21}H_{30}O_2$ (314.47). bp $D(-)$ 155~157°C/0.05mmHg, 200°C/0.05mmHg. **Pharm:** Antemetic; anti-inflammatory; antiviral (HSV-1, HSV-2); hallucinogen; used in treatment of glaucoma. **Source:** HUO MA REN *Cannabis sativa* (seed oil: content = 0.024%^[5508]), MA HUA *Cannabis sativa*. **Ref:** 4, 658, 5508.

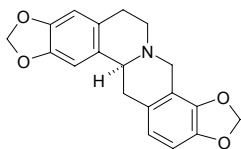
**21060 Δ^1 -Tetrahydrocannabinolic acid A**

Δ^1 -THC; Δ^1 -Tetrahydrocannabinolic acid $C_{22}H_{30}O_4$ (358.48). mp 158~160°C (dec). **Pharm:** Antispasmodic (rat ileum, spasm caused by acetylcholine, $BaCl_2$, or histamine, rat uterus, spasm caused by neurohypophyseal hormone). **Source:** HUO MA REN *Cannabis sativa*, MA YE *Cannabis sativa*. **Ref:** 6, 658.

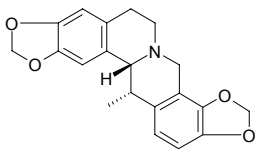


21061 (-)-Tetrahydrocoptisine

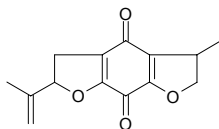
$C_{19}H_{17}NO_4$ (323.35). mp (-) 204°C, (\pm) 222~223°C, bp (\pm) 260°C/0.01mmHg. Source: BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.025%)^[5508], CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.01%)^[5508], KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 4 origins = 0.007%~0.069%, mean content = 0.033%)^[5508], QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.01%)^[5508], XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.03%)^[5508], YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 5 origins = 0.020%)^[5508]. Ref: 2, 6, 5508.

**21062 Tetrahydrocorysamine**

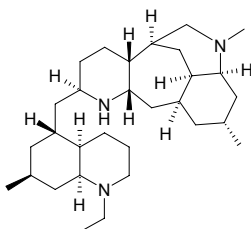
$C_{20}H_{19}NO_4$ (337.38). mp (-) 136~137°C, (\pm) 202~203°C. Source: JU HUA HUANG LIAN *Corydalis pallida*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

**21063 Tetrahydrocyperaguinone**

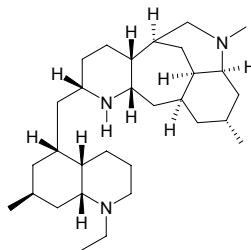
$C_{14}H_{14}O_4$ (246.27). mp 138~140°C. Source: PIAO FU CAO *Fimbristylis dichotoma*. Ref: 6.

**21064 Tetrahydrodeoxylicudine A**

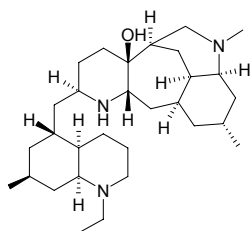
$C_{30}H_{53}N_3$ (455.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21065 Tetrahydrodeoxylicudine B**

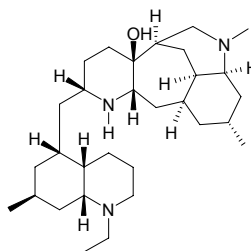
$C_{30}H_{53}N_3$ (455.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21066 Tetrahydrodeoxyoxolucidine A**

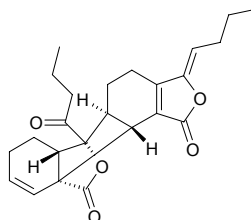
$C_{30}H_{53}N_3O$ (471.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21067 Tetrahydrodeoxyoxolucidine B**

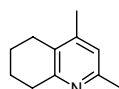
$C_{30}H_{53}N_3O$ (471.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21068 Z-3',8',3'a,7'a-Tetrahydro-6,3',7,7'a-diligustilide-8'-one**

$C_{24}H_{28}O_5$ (396.49). White amorphous powder, mp 110°C, $[\alpha]_D^{25} = +50^\circ$ ($c = 0.08$, $CHCl_3$). Source: DANG GUI *Angelica sinensis*. Ref: 4857.

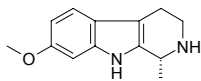
**21069 5,6,7,8-Tetrahydro-2,4-dimethylquinoline**

$C_{11}H_{15}N$ (161.25). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

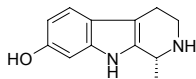


21070 Tetrahydroharmine

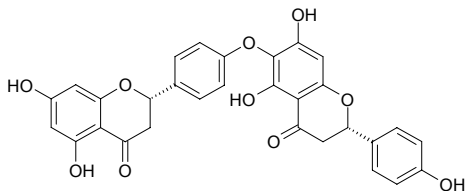
$C_{13}H_{16}N_2O$ (216.29). mp (+) 198.4~199.8°C. Source: LUO TUO PENG ZI *Peganum harmala*. Ref: 6.

**21071 Tetrahydroharmol**

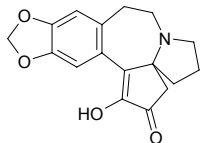
$C_{12}H_{14}N_2O$ (202.26). mp 254~255°C. Source: SHA ZAO SHU PI *Elaeagnus angustifolia*. Ref: 6.

**21072 Tetrahydrohinokiflavone**

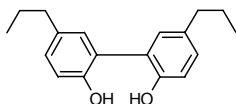
$C_{30}H_{22}O_{10}$ (542.50). Source: NAN YIN DU SU TIE SHU GUO *Cycas beddomei* (stem). Ref: 3929.

**21073 5,6,8,9-Tetrahydro-1-hydro-4H-cyclopenta[a]-[1,3]dioxolo[4,5-h]pyrrolo[2,1-b][3]benzaepin-2(3H)-one**

$C_{17}H_{17}NO_4$ (299.33). Brownish powder, $[\alpha]_D^{28} = +52^\circ$ ($c = 0.03$, MeOH). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (heartwood: yield = 0.00019%dw). Ref: 4759.

**21074 Tetrahydromagnolol**

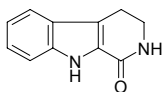
$C_{18}H_{22}O_2$ (270.37). Source: HOU PO *Magnolia officinalis*, AO YE HOU PO *Magnolia biloba*. Ref: 2, 660.

**21075 5,6,7,8-Tetrahydro-4-methylquinoline**

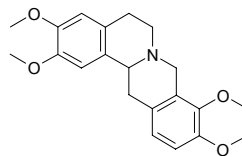
$C_{10}H_{13}N$ (147.22). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**21076 1,2,3,4-Tetrahydro-1-oxo-β-carboline**

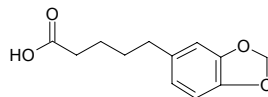
1-Oxo-1,2,3,4-tetrahydro-β-carboline $C_{11}H_{10}N_2O$ (186.22). White acicular crystals, mp 168~170°C; white crystals, mp 168~167°C. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 9, 347, 877.

**21077 Tetrahydropalmatine**

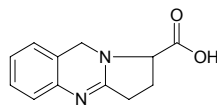
Caseanine; Corydalis; Hyndarine; Rotundine [2934-97-6] $C_{21}H_{25}NO_4$ (355.44). mp (+) 143°C, (-) 141~142°C, (±) 148°C. Pharm: Analgesic (mus, hot plate method, ip, 15~20mg/kg); hypnotic (potentiates hypnotic effect of cyclobarital); antiarrhythmic (selective, arrhythmia induced by $CHCl_3$, $BaCl_2$, $CHCl_3$ -adrenalin, Strophanthin G, no action for arrhythmia induced by aconitine); antispasmodic (rat *in vitro*, relaxes uterus, induced by KCl or pitocin); calcium antagonist (uterine smooth muscle); LD_{50} (mus, iv) = 151~158mg/kg. Source: CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.03%^[5508]), JIN BU HUAN *Stephania sinica*, JU HUA HUANG LIAN *Corydalis pallida*, TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.18%^[5508]), XIAO HUA HUANG JIN *Corydalis racemosa*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtshchaninovii* f. *yanhusuo*] (rhizome: mean content of 22 origins = 0.066%^[5508]; 0.042%~0.130%^[5501]). Ref: 4, 6, 660, 5501, 5507, 5508.

**21078 Tetrahydropiperic acid**

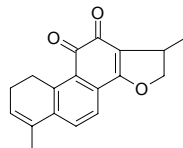
Tetrahydropiperinic acid $C_{12}H_{14}O_4$ (222.24). Source: BI BA *Piper longum*. Ref: 6.

**21079 1,2,3,9-Tetrahydropyrrolo(2,1-b)quinazolin-1-carboxylic acid**

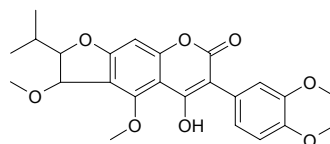
$C_{12}H_{12}N_2O_2$ (216.24). Colorless needles (MeOH), mp 218 °C (dec), $[\alpha]_D^{18} = -217^\circ$ ($c = 0.01$, MeOH). Source: LIU CHUAN YU *Linaria vulgaris*. Ref: 4237.

**21080 1,2,15,16-Tetrahydrotanshinone I**

1,2,15,16-Tetrahydrotanshinone I [126979-84-8] $C_{18}H_{16}O_3$ (280.33). Violet-red columnar crystals (methanol), mp 140~142°C. Pharm: Cytotoxic (P_{388}). Source: BAI HUA DAN SHEN *Salvia miltiorrhiza* f. *alba*. Ref: 185.

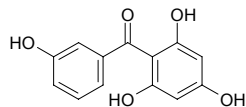
**21081 1'',2'',3'',4''-TetrahydrothoningineC**

$C_{24}H_{26}O_8$ (442.47). Colorless oil. Source: *Millettia thonningii*. Ref: 2326.

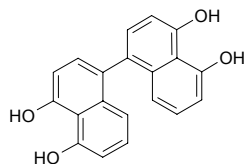


21082 2,4,6,3'-Tetrahydroxybenzophenone

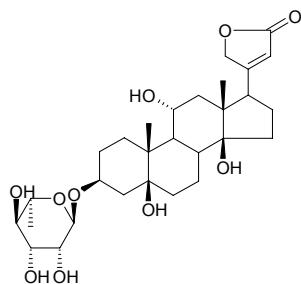
$C_{13}H_{10}O_5$ (246.22). **Pharm:** Cytotoxic (BST, $LD_{50} > 100 \mu\text{mol/L}$; control Berberine, $LD_{50} = 67 \mu\text{mol/L}$); antioxidant (DPPH radical scavenger, $IC_{50} = 66.3 \mu\text{mol/L}$; control Catechin, $IC_{50} = 2.53 \mu\text{mol/L}$). **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00011%dw). **Ref:** 4708.

**21083 4,5,4',5'-Tetrahydroxy-1:1'-binaphthyl**

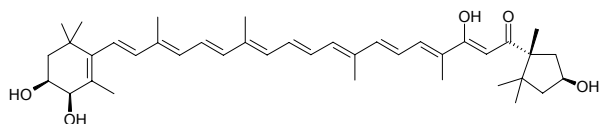
$C_{20}H_{14}O_4$ (318.33). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 18.2 \mu\text{mol/L}$, control Ascorbic acid, $IC_{50} = 16.5 \mu\text{mol/L}$). **Source:** AN ZONG TAN TUAN *JUN Hypoxylon fuscum*. **Ref:** 3771.

**21084 3β,5β,11α,14β-Tetrahydroxy-5β-card-20(22)enolide-3α-L-rhamnoside**

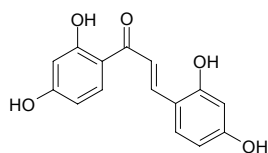
$C_{29}H_{44}O_{10}$ (552.67). **Source:** LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. **Ref:** 6.

**21085 3,4,3',8'-Tetrahydroxy-β,κ-caroten-6'-one**

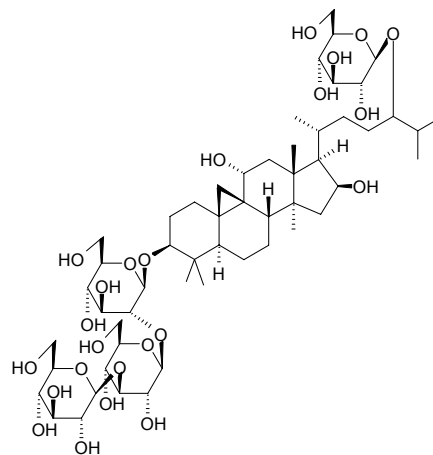
$C_{40}H_{56}O_5$ (616.89). Reddish solid. **Source:** MU LI (Oyster) *Crassostrea gigas*. **Ref:** 4515.

**21086 2,4,2',4'-Tetrahydroxychalcone**

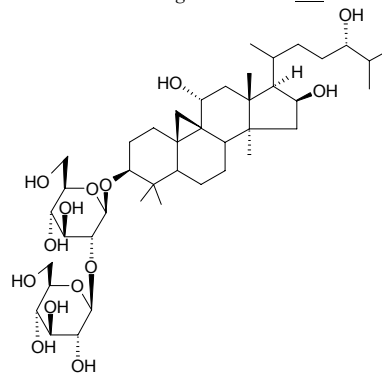
$C_{15}H_{12}O_5$ (272.26). **Pharm:** Aromatase inhibitor inactive (*in vitro*, $IC_{50} > 40 \mu\text{mol/L}$; control Aminoglutethimide, $IC_{50} = 6.4 \mu\text{mol/L}$). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090.

**21087 (24S)-3β,11α,16β,24-Tetrahydroxycycloartane-3-O-[\beta-D-glucopyranosyl(1→3)-\beta-D-glucopyranosyl(1→2)-\beta-D-glucopyranosyl]-24-O-\beta-D-glucopyranoside**

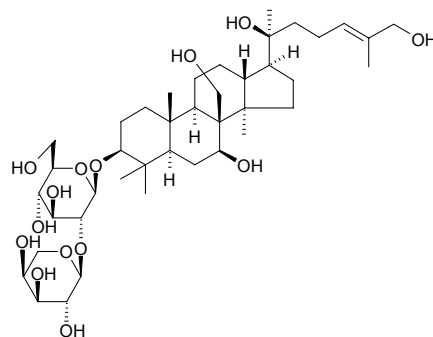
$C_{54}H_{92}O_{24}$ (1125.32). White amorphous powder, $[\alpha]_D^{25} = -9.33^\circ$ ($c = 0.75$, MeOH). **Source:** XIAN MAO *Curculigo orchoides*. **Ref:** 2485.

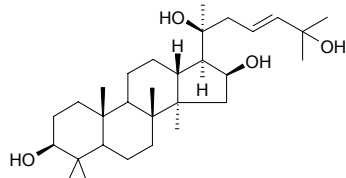
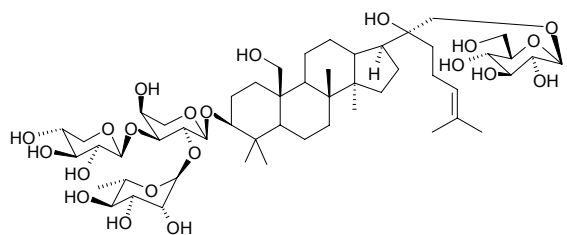
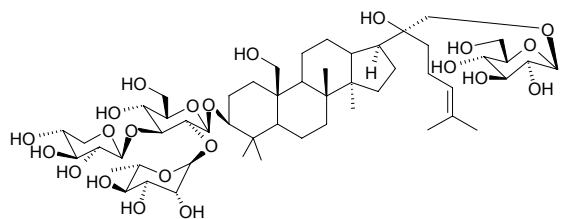
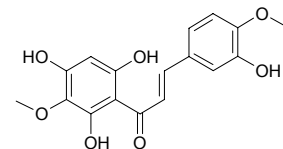
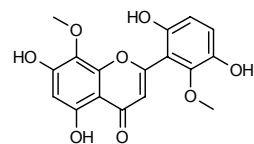
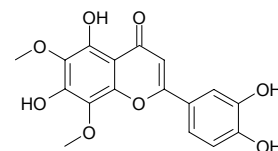
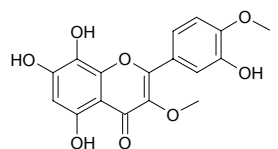
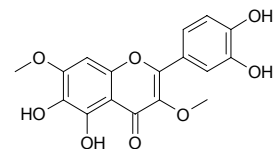
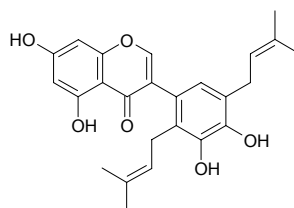
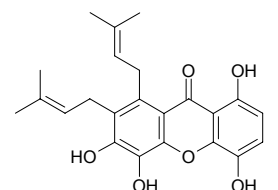
**21088 24S,3β,11α,16β,24-Tetrahydroxycycloartanol-3-O-\beta-D-glucopyranosyl-(1→2)-\beta-D-glucopyranoside**

$C_{42}H_{72}O_{14}$ (801.03). White powder (MeOH), mp 215~217°C (dec). **Source:** XIAN MAO *Curculigo orchoides*. **Ref:** 884.

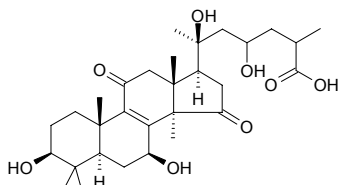
**21089 7β,18,20,26-Tetrahydroxy-(20S)-dammar-24E-en-3-O-\alpha-L-arabinopyranosyl-(1→2)-\beta-D-glucopyranoside**

$C_{41}H_{70}O_{14}$ (787.01). Microneedles (MeOH), mp 184~186°C, $[\alpha]_D^{20} = +5.38^\circ$ ($c = 0.56$, MeOH). **Pharm:** Antiviral (Vero cells, HSV-1, $TC_{50} = 577.3 \mu\text{g/mL}$, Acyclovir, $TC_{50} > 1000 \mu\text{g/mL}$). **Source:** JIA BEI MU *Bolbostemma paniculatum* (bulb). **Ref:** 4977.

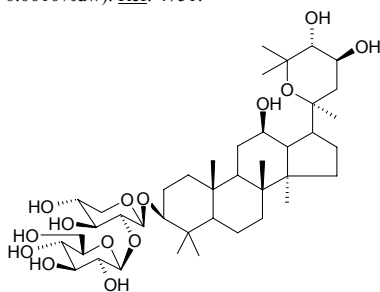


21090 3 β ,16 β ,20(S),25-Tetrahydroxydammar-23-eneC₃₀H₅₂O₄ (476.75). Colorless needles, [α]_D²⁵ = +13.6° (c = 1.0, CH₂Cl₂).Source: KU A MO YAO *Commiphora kua* (resin). Ref: 4334.**21091 3 β ,19,20S,21-Tetrahydroxydammar-24-ene 3-O-[[α -L-rhamnopyranosyl(1→2)][β -D-xylopyranosyl(1→3)]- α -L-arabinopyranosyl]-21-O- β -D-glucopyranoside**C₅₂H₈₈O₂₁ (1049.27). Amorphous powder, [α]_D²⁰ = -12.2° (c = 1.14, MeOH).Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0036%dw). Ref: 4751.**21092 3 β ,19,20S,21-Tetrahydroxydammar-24-ene 3-O-[[α -L-rhamnopyranosyl(1→2)][β -D-xylopyranosyl(1→3)]- β -D-glucopyranosyl]-21-O- β -D-glucopyranoside**C₅₃H₉₀O₂₂ (1079.3). Amorphous powder, [α]_D²⁰ = -6.0° (c = 1.00, MeOH).Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0015%dw). Ref: 4751.**21093 3,2',4',6'-Tetrahydroxy-4,3'-dimethoxy chalcone**C₁₇H₁₆O₇ (332.31). Source: DA JIN QIAN CAO *Lysimachia christinae*. Ref: 2.**21094 5,7,2',5'-Tetrahydroxy-8,6'-dimethoxy flavone**C₁₇H₁₄O₈ (346.30). Source: CHUAN HUANG QIN *Scutellaria hypericifolia*, GAN SU HUANG QIN *Scutellaria rehderiana*, HUANG QIN *Scutellaria baicalensis*, NIAN MAO HUANG QIN *Scutellaria viscidula*. Ref: 2, 660.**21095 5,7,3',4'-Tetrahydroxy-6,8-dimethoxy flavone**[57093-50-2] C₁₇H₁₄O₈ (346.30). Yellow acicular crystals, mp 254~256°C.Source: MAO LIAN HAO *Artemisia vestita*. Ref: 474.**21096 5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy flavone**C₁₇H₁₄O₈ (346.30). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.**21097 5,6,3',4'-Tetrahydroxy-3,7-dimethoxyflavone**[59171-23-2] C₁₇H₁₄O₈ (346.29). Pharm: Aldose reductase inhibitor (ox eye lens, IC₅₀ = 2.1 μmol/L, rat eye lens, IC₅₀ = 0.8 μmol/L). Source: HUANG HUA HAO *Artemisia annua*. Ref: 900.**21098 5,7,3',4'-Tetrahydroxy-2',5'-di(3-methylbut-2-enyl)isoflavone**C₂₅H₂₆O₆ (422.48). Amorphous yellow solid. Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.**21099 1,4,5,6-Tetrahydroxy-7,8-di(3-methylbut-2-enyl)xanthone**C₂₃H₂₄O₆ (396.44). Yellow needles, mp 188~190°C. Pharm: Neurite outgrowth activity (NGF-mediated, PC12D cells, EC = 10 μmol/L). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 3473.

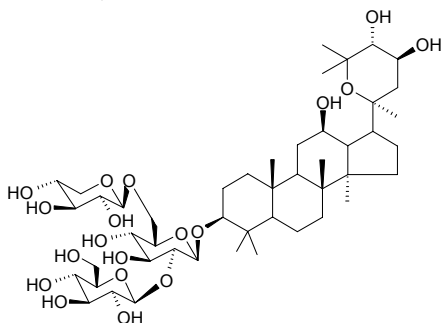
21100 **3 β ,7 β ,20,23 ξ -Tetrahydroxy-11,15-dioxolanosta-8-en-26-oic acid**
 C₃₀H₄₆O₈ (534.7). Colorless amorphous solid, $[\alpha]_D^{26} = +117.5^\circ$ ($c = 0.211$, CHCl₃). **Source:** SHU SHE *Ganoderma applanatum* (sporocarp: yield = 0.0057%). **Ref:** 4756.



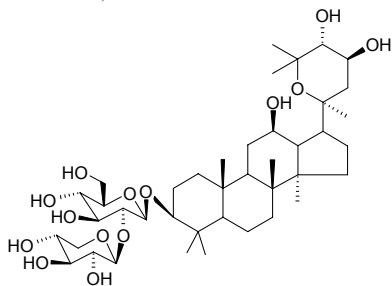
21101 **3 β ,12 β ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-glucopyranosyl(1 \rightarrow 2)]- β -D-xylopyranoside**
 C₄₁H₇₀O₁₄ (787.01). Amorphous powder, $[\alpha]_D^{20} = +17.8^\circ$ ($c = 0.30$, MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0010%dw). **Ref:** 4751.



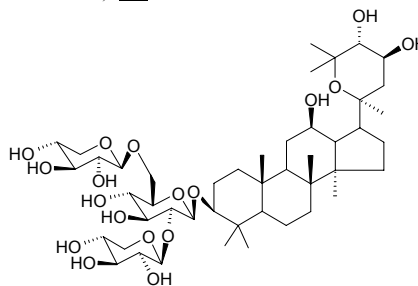
21102 **3 β ,12 β ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-glucopyranosyl(1 \rightarrow 2)] β -D-xylopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside**
 C₄₇H₈₀O₁₉ (949.15). Amorphous powder, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.54$, MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0012%dw). **Ref:** 4751.



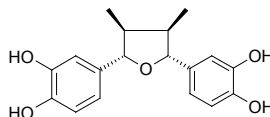
21103 **3 β ,12 β ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-xylopyranosyl(1 \rightarrow 2)]- β -D-glucopyranoside**
 C₄₁H₇₀O₁₄ (787.01). Amorphous powder, $[\alpha]_D^{20} = +18.1^\circ$ ($c = 0.48$, MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0010%dw). **Ref:** 4751.



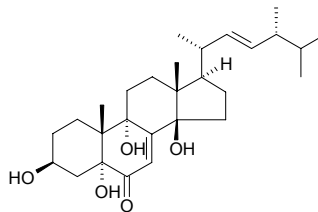
21104 **3 β ,12 β ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- β -D-xylopyranosyl(1 \rightarrow 2)] β -D-xylopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside**
 C₄₆H₇₈O₁₈ (919.12). Amorphous powder, $[\alpha]_D^{20} = 0^\circ$ ($c = 0.34$, MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0019%dw). **Ref:** 4751.



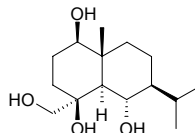
21105 **meso-(rel-7S,8S,7'R,8'R)-3,4,3',4'-Tetrahydroxy-7,7'-epoxyignan**
 C₁₈H₂₀O₅ (316.36). Off-white powder, $[\alpha]_D^{25} = 0^\circ$ ($c = 0.0012$, MeOH). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC₅₀ = (7.5±2.0)μg/mL; control NDGA, IC₅₀ = (0.7±0.3)μg/mL, Vitamin C, IC₅₀ = (1.9±0.7)μg/mL, Trolox, IC₅₀ = (1.4±0.5)μg/mL); cytotoxic (XTT assay, HL-60 cells, IC₅₀ > 50.0μg/mL; control NDGA, IC₅₀ = (2.6±0.2)μg/mL, Vitamin C, IC₅₀ > 10.0μg/mL, Trolox, IC₅₀ > 10.0μg/mL). **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 3850.



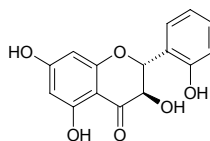
21106 **3 β ,5 α ,9 α ,14 β -Tetrahydroxy-(22E)-ergosta-7,22-dien-6-one**
 C₂₈H₄₄O₅ (460.66). Amorphous powder, $[\alpha]_D^{18} = -73.7^\circ$ ($c = 0.1$, CHCl₃). **Source:** SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*]. **Ref:** 3526.



21107 **1 β ,4 β ,6 α ,15-Tetrahydroxyeudesmane**
 C₁₅H₂₈O₄ (272.39). $[\alpha]_D^{17} = -200^\circ$ ($c = 0.20$, CHCl₃). **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts). **Ref:** 5073.

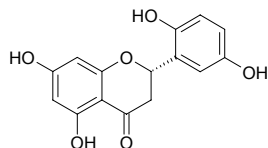


21108 **(2R,3R)-2',3,5,7-tetrahydroxyflavanone**
 C₁₅H₁₂O₆ (288.26). Yellowish rhomboid crystals, mp 119~120°C. **Source:** DIAN HUANG QIN *Scutellaria amoena*. **Ref:** 124.

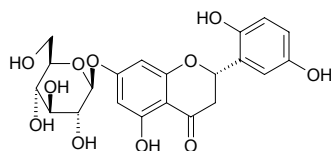


21109 (2S)-5,7,2',5'-Tetrahydroxyflavanone

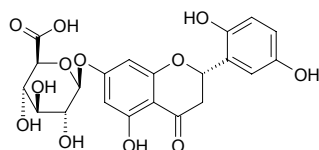
C₁₅H₁₂O₆ (288.26). Colorless needles (MeOH), mp 266~267°C (dec). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0053%dw). Ref: 2072.

**21110 (2S)-5,7,2',5'-Tetrahydroxy-flavanone 7-O-β-D-glucopyranoside**

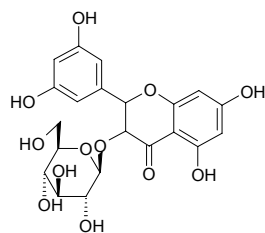
C₂₁H₂₂O₁₁ (450.40). Colorless needles (MeOH), mp 194~195°C (dec), [α]_D²⁵ = -151.0° (c = 0.045, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0009%dw). Ref: 2072.

**21111 (2S)-5,7,2',5'-Tetrahydroxyflavanone 7-O-β-D-glucuronopyranoside**

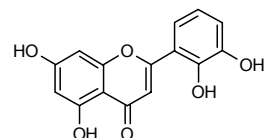
C₂₁H₂₀O₁₂ (464.39). Colorless needles (MeOH), mp 179~180°C (dec), [α]_D²⁵ = -129.8° (c = 0.045, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0049%dw). Ref: 2072.

**21112 5,7,3',5'-Tetrahydroxyflavanonol-3-O-β-D-glucoside**

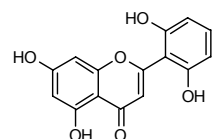
C₂₁H₂₂O₁₂ (466.40). mp 187~189°C. Source: SAN LENG *Sparganium stoloniferum*. Ref: 573.

**21113 5,7,2',3'-Tetrahydroxyflavone**

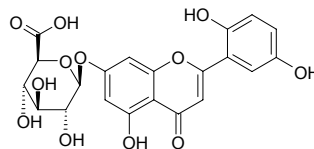
C₁₅H₁₀O₆ (286.24). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21114 5,7,2',6'-Tetrahydroxyflavone**

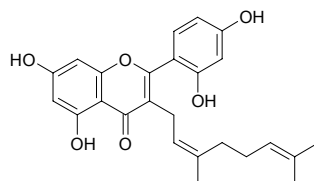
C₁₅H₁₀O₆ (286.24). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660.

**21115 5,7,2',5'-Tetrahydroxyflavone 7-O-β-D-glucuronopyranoside**

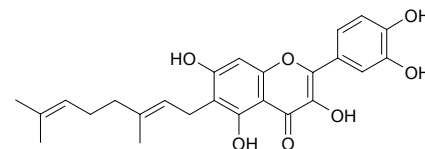
C₂₁H₁₈O₁₂ (462.37). Yellow needles (MeOH), mp 226~227°C (dec), [α]_D²⁵ = -69.1° (c = 0.039, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0011%dw). Ref: 2072.

**21116 5,7,2',4'-Tetrahydroxy-3-geranylflavone**

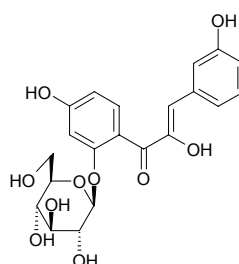
C₂₅H₂₆O₆ (422.48). Brown powder, mp 94~95°C. Pharm: Aromatase inhibitor (*in vitro*, IC₅₀ = 24μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**21117 5,7,3',4'-Tetrahydroxy-6-geranylflavonol**

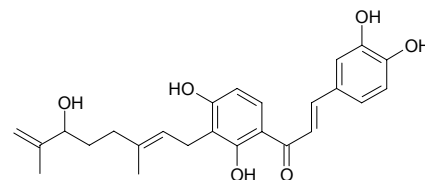
C₂₅H₂₆O₇ (438.48). Brown powder, mp 158~156°C. Pharm: Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**21118 1α,3,2',4'-Tetrahydroxy-2'-O-β-D-glucopyranosylchalcone**

C₂₁H₂₂O₁₀ (434.40). Yellow powder, [α]_D²⁰ = -89.2° (c = 0.24, MeOH). Source: GUI ZHEN CAO *Bidens bipinnata* (aerial parts). Ref: 4566.

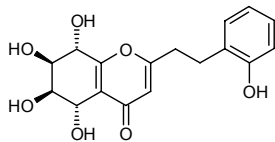
**21119 2',3,4,4'-Tetrahydroxy-3'-[6-hydroxy-3,7-dimethyl-2(E),7-octadienyl]chalcone**

C₂₅H₂₈O₆ (424.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 15μg/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1μg/spot, control Vitamin E, 1μg/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.



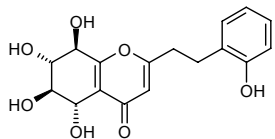
21120 5 α ,6 β ,7 β ,8 α -Tetrahydroxy-2-[2-(2'-hydroxy phenyl)ethyl]-5,6,7,8-tetrahydrochromone

AH23 C₁₇H₁₈O₇ (334.33). Colorless acicular crystals, mp 143~145°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



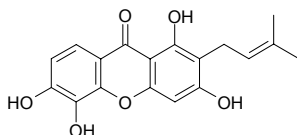
21121 5 α ,6 β ,7 α ,8 β -Tetrahydroxy-2-[2-(2'-hydroxyphenyl)ethyl]-5,6,7,8-tetrahydrochromone

AH2b C₁₇H₁₈O₇ (334.33). Colorless acicular crystals, mp 135~137°C (dec), [α]_D = -40.0°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



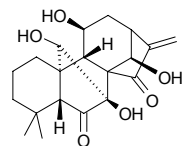
21122 1,3,5,6-Tetrahydroxy-2-isoprenylxanthone

C₁₈H₁₆O₆ (328.32). Pharm: Anti-hypotension (PAF-induced, ID₅₀ = (17.0±3.2)μmol/kg, control Ginkgolide B, ID₅₀ = (38.5±2.7)μmol/kg, CV-3988, ID₅₀ = (2.4±1.2)μmol/kg). Source: *Calophyllum austroindium* (stem wood). Ref: 5050.



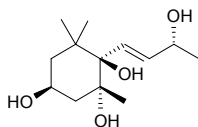
21123 7 β ,11 β ,14 β ,20-Tetrahydroxy-ent-kaur-16-en-6,15-dione

C₂₀H₂₆O₆ (362.43). Colorless acicular crystals, mp 262~264°C. Source: ZI MAO XIANG CHA CAI *Isodon enanderianus*. Ref: 653.



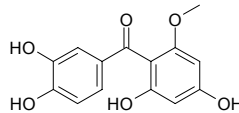
21124 (3S,5R,6R,7E,9R)-3,5,6,9-Tetrahydroxy-7-megastigmene

C₁₃H₂₄O₄ (244.33). Colorless oil, [α]_D²⁵ = +33.8° (c = 0.53, MeOH). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.



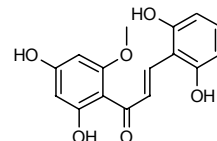
21125 4,6,3',4'-Tetrahydroxy-2-methoxybenzophenone

C₁₄H₁₂O₆ (276.25). Yellow oil. Pharm: Cytotoxic (BST, LD₅₀ > 100μmol/L; control Berberine, LD₅₀ = 67μmol/L); antioxidant (DPPH radical scavenger, IC₅₀ = 7.8μmol/L; control Catechin, IC₅₀ = 2.53μmol/L). Source: SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.0002%dw). Ref: 4708.



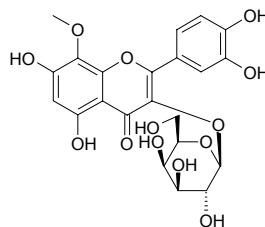
21126 2,6,2',4'-Tetrahydroxy-6'-methoxychalcone

C₁₆H₁₄O₆ (302.29). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.



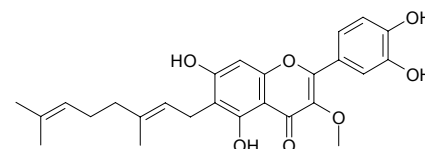
21127 5,7,3',4'-Tetrahydroxy-8-methoxyflavonol-3-O-β-D-galactoside

C₂₂H₂₂O₁₃ (494.41). Source: DI YANG QUE *Lotus corniculatus*. Ref: 6.



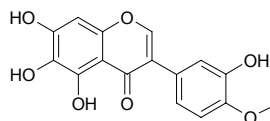
21128 5,7,3',4'-Tetrahydroxy-3-methoxy-6-geranylflavone

C₂₆H₂₈O₇ (452.51). Brown powder, mp 98~99°C. Pharm: Aromatase inhibitor inactive (*in vitro*, IC₅₀ > 40μmol/L; control Aminoglutethimide, IC₅₀ = 6.4μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.



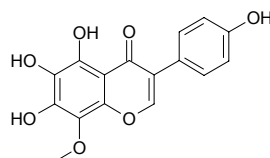
21129 5,6,7,3'-Tetrahydroxy-4'-methoxyisoflavone

C₁₆H₁₂O₇ (316.27). Pale yellow amorphous powder. Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.



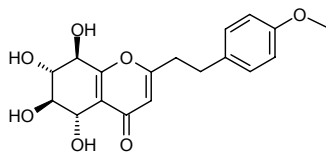
21130 5,6,7,4'-Tetrahydroxy-8-methoxyisoflavone

C₁₆H₁₂O₇ (316.27). Pharm: Free radical scavenger (-OH free radical)^[2542]. Source: SHE GAN *Belamcanda chinensis*. Ref: 1521, 2452.

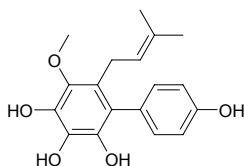


21131 5 α ,6 β ,7 β ,8 α -Tetrahydroxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydrochromone

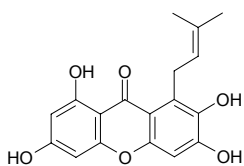
AH2a C₁₈H₂₀O₇ (348.36). Colorless acicular crystals, mp 198–199°C (dec), [α]_D = -67.7°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**21132 2,3,4,4'-Tetrahydroxy-5-methoxy-6-prenyl-biphenyl**

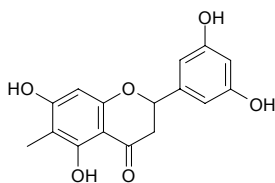
C₁₈H₂₀O₅ (316.36). Colorless viscous liquid. Pharm: Antibacterial (methicillin-resistant *Staphylococcus aureus* (MRSA), MIC = 64 μg/mL). Source: *Garcinia bancana* (twig and leaf). Ref: 4452.

**21133 1,3,6,7-Tetrahydroxy-8-(3-methyl-2-butenyl)-9H-xanthen-9-one**

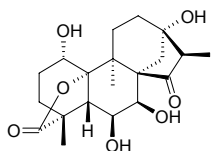
C₁₈H₁₆O₆ (328.32). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

**21134 5,7,3',5'-Tetrahydroxy-6-methylflavanone**

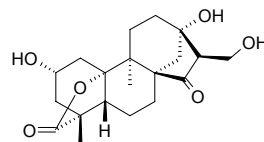
C₁₆H₁₄O₆ (302.29). Colorless powder, mp 243–245°C. Source: HUANG SHAN *Pseudotsuga sinensis*. Ref: 2229.

**21135 1 α ,7 β ,10 α ,13 α -Tetrahydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone**

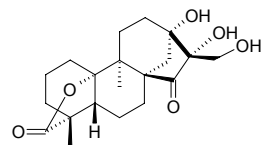
C₂₀H₂₈O₇ (380.44). Pale-yellow crystals, mp 152–160°C, [α]_D²⁵ = +20.0° (c = 0.1, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μg/mL, 0.003 μg/mL, 0.0005 μg/mL, 0.001 μg/mL, 0.004 μg/mL, 0.008 μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21136 2 α ,10 α ,13 α ,17-Tetrahydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid (19,10)-lactone**

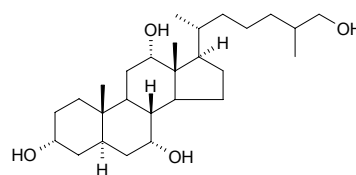
C₂₀H₂₈O₆ (364.44). White solid, mp 200°C (dec), [α]_D²⁵ = +18.0° (c = 0.1, MeOH). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21137 10 α ,13 α ,16 α ,17-Tetrahydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone**

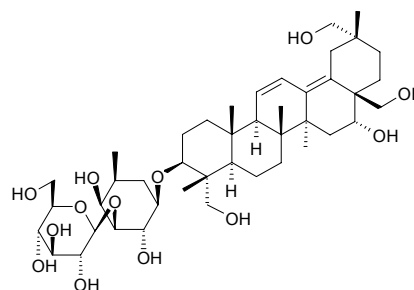
C₂₀H₂₈O₆ (364.44). Yellow crystals, mp 88–93°C, [α]_D²⁵ = +24.3° (c = 0.1, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μg/mL, 0.003 μg/mL, 0.0005 μg/mL, 0.001 μg/mL, 0.004 μg/mL, 0.008 μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21138 Tetrahydroxynorbufostane**

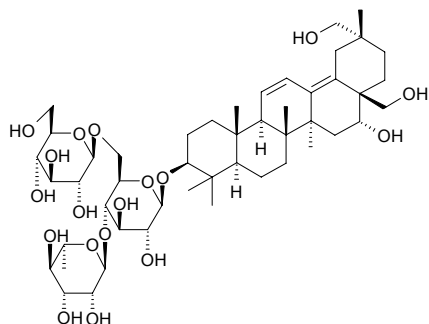
Cholestane-3,7,12,26-tetrol C₂₇H₄₈O₄ (436.68). mp 148°C. Source: CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

**21139 16 α ,23,28,30-Tetrahydroxyolean-11,13(18)-dien-3 β -yl- β -D-glucopyranosyl-(1→3)- β -D-fucopyranoside**

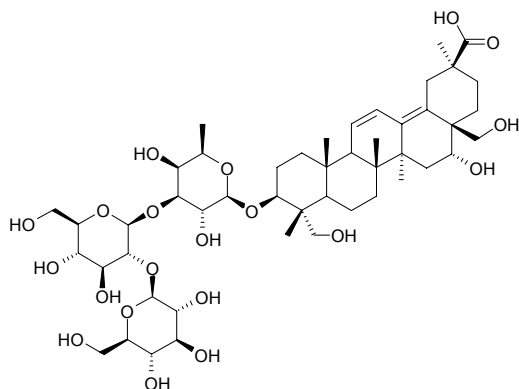
C₄₃H₇₀O₁₃ (795.03). Source: CHAI HU *Bupleurum chinense*, ZI HU *Bupleurum falcatum*, HEI CHAI HU *Bupleurum smithii*. Ref: 2247.



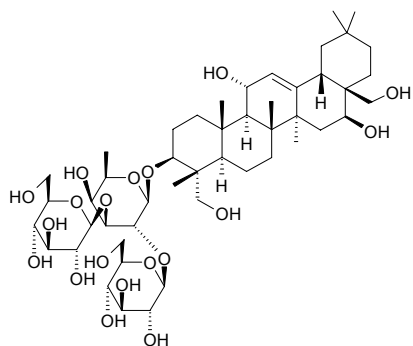
21140 3 β ,16 α ,28,30-Tetrahydroxyolean-11,13(18)-dien-3 β -yl- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside
C₄₈H₇₈O₁₈ (943.15). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



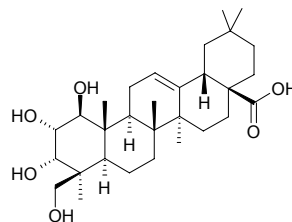
21141 3 β ,16 α ,23,28-Tetrahydroxyolean-11,13(18)-dien-30-oic acid 3- O - β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranoside
C₄₈H₇₆O₂₀ (973.13). White powder, mp 210–213°C, [α]_D²⁵ = +17.1° (*c* = 0.1, MeOH). Source: ZHI BU LUO TUO CAI HU *Bupleurum gibraltarium* (root). Ref: 3980.



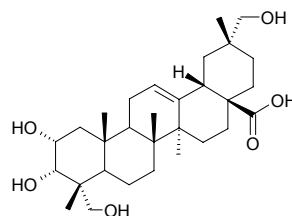
21142 11 α ,16 β ,23,28-Tetrahydroxyolean-12-en-3 β -yl- β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-fucopyranoside
C₄₈H₈₀O₁₉ (961.16). Source: GUAN MU CHAI HU *Bupleurum fruticosum*. Ref: 2247.



21143 1 β ,2 α ,3 α ,24-Tetrahydroxyolean-12-en-28-oic acid
C₃₀H₄₈O₆ (504.71). Pharm: Antifungal. Source: TAO *Prunus persica* (peel of unripe fruits). Ref: 2371.

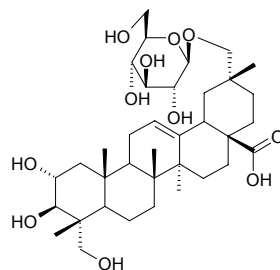


21144 2 α ,3 α ,23,29-Tetrahydroxyolean-12-en-28-oic acid
C₃₀H₄₈O₆ (504.71). White needles (MeOH), mp 271–273°C, [α]_D²⁰ = +22.4° (*c* = 0.20, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00007%dw). Ref: 4665.



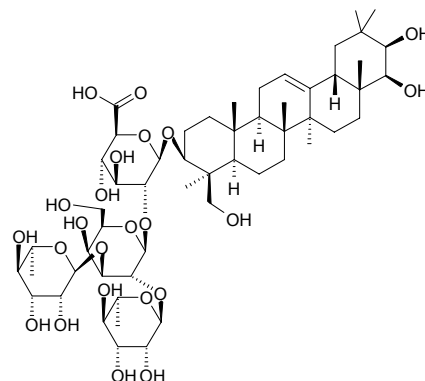
21145 2 α ,3 β ,23,29-Tetrahydroxyolean-12-en-28-oic acid 29- O - β -D-glucopyranoside

C₃₆H₅₈O₁₁ (666.86). Amorphous powder, [α]_D²⁵ = +14° (*c* = 0.1, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.



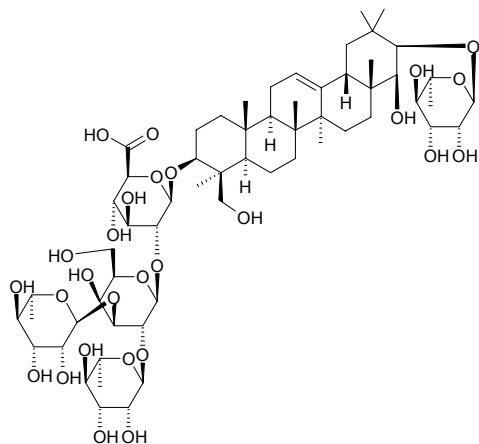
21146 3 β ,21 β ,22 β ,24-Tetrahydroxyolean-12-en-3- O - α -L-rhamnopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside

C₅₄H₈₈O₂₃ (1105.29). white amorphous solid, [α]_D²⁵ = -2.9° (*c* = 0.83, MeOH). Pharm: Antifungal (*Candida albicans*, MIC = 25 μg/mL). Source: AI SAI E BI YA YU SHAN DOU *Lupinus angustifolius*. Ref: 2025.

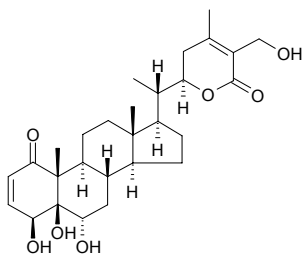


21147 3 β ,21 β ,22 β ,24-Tetrahydroxyolean-12-en-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21-O- α -L-rhamnopyranoside

C₆₀H₉₈O₂₇ (1251.43). white amorphous solid, $[\alpha]_D^{25} = -8.4^\circ$ ($c = 0.83$, MeOH). **Pharm:** Antifungal (*Candida albicans*, MIC = 30 μ g/mL). **Source:** AI SAI E BI YA YU SHAN DOU *Lupinus angustifolius*. **Ref:** 2025.

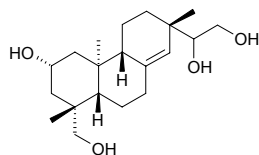


21148 (20S,22R)-4 β ,5 β ,6 α ,27-Tetrahydroxy-1-oxowitha-2,24-dienolide
C₂₈H₄₀O₇ (488.63). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 μ mol/L). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.



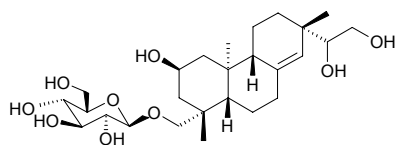
21149 ent-2 α ,15,16,19-Tetrahydroxypimar-8(14)-ene

C₂₀H₃₄O₄ (338.49). White amorphous powder, $[\alpha]_D^{20} = -18.4^\circ$ ($c = 0.50$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0002%). **Ref:** 4764.



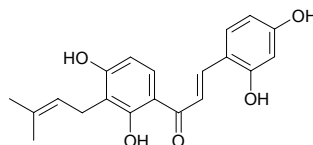
21150 ent-2 β ,15,16,19-Tetrahydroxypimar-8(14)-en-19-O- β -glucopyranoside

C₂₆H₄₄O₉ (500.64). Pale gum, $[\alpha]_D^{20} = -35.9^\circ$ ($c = 1.32$, MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0011%). **Ref:** 4764.



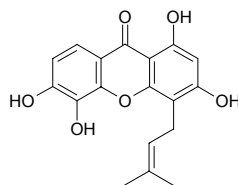
21151 2,4,2',4'-Tetrahydroxy-3'-prenylchalcone

Anticancer Flavonoid PMV70P691-113 C₂₀H₂₀O₅ (340.38). **Pharm:** Aromatase inhibitor (*in vitro*, IC₅₀ = 4.6 μ mol/L; control Aminoglutethimide, IC₅₀ = 6.4 μ mol/L). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.



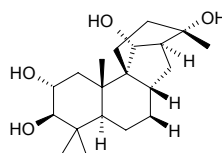
21152 1,3,5,6-Tetrahydroxy-4-prenylxanthone

C₁₈H₁₆O₆ (328.32). Pale yellow crystals. **Source:** DI ER CAO *Hypericum japonicum*, HENG LI DI ER CAO *Hypericum henryi*. **Ref:** 775.



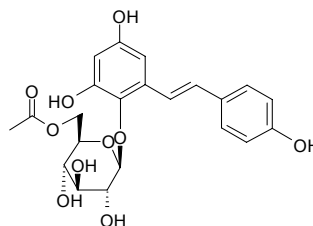
21153 2 α ,3 β ,13(S),16 α -Tetrahydroxystemodane

C₂₀H₃₄O₄ (338.49). Prisms, mp 239–240°C, $[\alpha]_D^{27} = -17.9^\circ$ ($c = 0.47$, MeOH). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



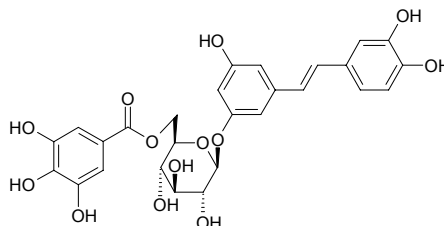
21154 2,3,5,4'-Tetrahydroxystilbene-2-O-(6''-O-acetyl)- β -D-glucopyranoside

C₂₂H₂₄O₁₀ (448.43). Colorless acicular crystals, mp 173–174°C. **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 847.



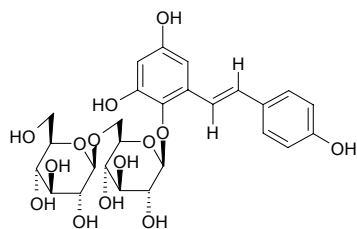
21155 (E)-3,5,3',4'-Tetrahydroxystilbene 3-O- β -D-(6-O-galloyl)glucopyranoside

C₂₇H₂₆O₁₃ (558.50). Colorless needles, mp 173–174°C, $[\alpha]_D^{27} = -84.6^\circ$ ($c = 0.14$, MeOH). **Source:** *Eskemukerjea megacarpum* (underground part: yield = 0.010%dw). **Ref:** 924.



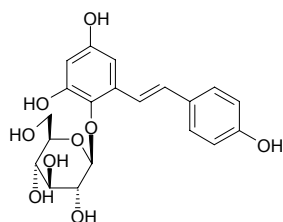
21156 2,3,5,4'-Tetrahydroxystilbene-2-O-(6''-O- α -D-glucopyranosyl)- β -D-glucopyranoside

C₂₆H₃₂O₁₄ (568.54). Light brown acicular crystals, mp 203~204°C. **Pharm:** Inhibits cell proliferation (SMC, strong). **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 864.



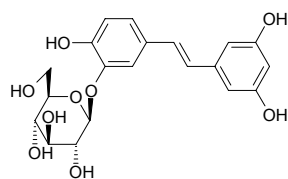
21157 2,3,5,4'-Tetrahydroxystilbene-2-O- β -D-glucoside

[55327-45-2] C₂₀H₂₂O₉ (406.39). Yellowish acicular crystals, mp 183~184°C, [α]_D¹⁷ = +31.6° (c = 0.95, methanol). **Pharm:** Antithrombotic; protects liver; antioxidant (inhibits lipid peroxidation induced by ADP and NADPH in microsome of rat hepatic cells, 50~100mg/kg, orl, reduces GOT and GPT level in rat serum). **Source:** HU ZHANG *Polygonum cuspidatum*, HE SHOU WU *Polygonum multiflorum* (dried tuberoid (crude): content scope of 9 batch samples = 0.143%~6.852%, mean content = 3.474%^[5508]). **Ref:** 2, 900, 5501, 5508.



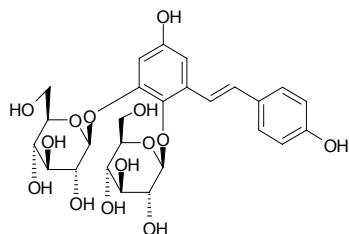
21158 3,4,3',5'-Tetrahydroxystilbene-3-glucoside

Piceatannol 3'-O- β -D-glucopyranoside C₂₀H₂₂O₉ (406.39). **Source:** ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*, YU DA HUANG *Rheum* sp.^[4064]. **Ref:** 2, 660, 2834, 4064.



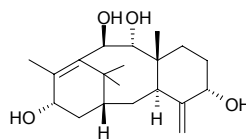
21159 2,3,5,4'-Tetrahydroxystilbene-2,3-O- β -D-diglucoside

C₂₆H₃₂O₁₄ (568.54). Colorless acicular crystals, mp 265~267°C. **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 292.



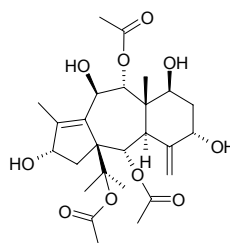
21160 Tetrahydroxytaxadiene

5 α ,9 α ,10 β ,13 α -Tetrahydroxy-4(20),11-taxadiene C₂₀H₃₂O₄ (336.48). mp 195~198°C, [α]_D = +134°. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



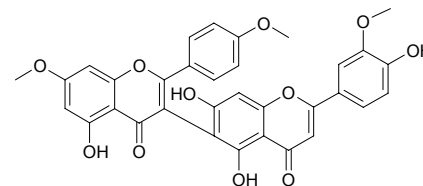
21161 5 α ,7 β ,10 β ,13 α -Tetrahydroxy-2 α ,9 α ,15-triacetoxy-11(15→1)-abeo-taxa-4(20),11-diene

C₂₆H₃₈O₁₀ (510.59). Oily compound, [α]_D²⁰ = +112° (MeOH). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (bark). **Ref:** 4245.



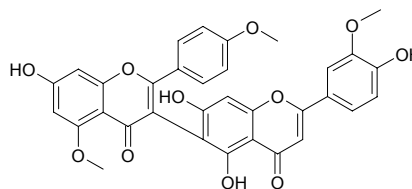
21162 4''',5',7''-Tetrahydroxy-3''',4',7-trimethoxy-3,6''-biflavone

C₃₃H₂₄O₁₁ (596.55). Yellow solid, mp 230~232°C (Me₂CO), [α]_D²⁵ = -33.7° (c = 0.6100, Me₂CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.



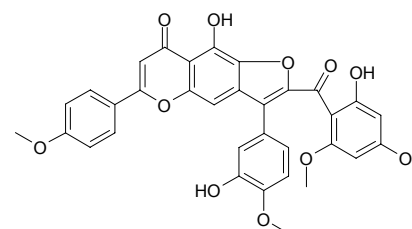
21163 4''',5',7,7''-Tetrahydroxy-3''',4',7-trimethoxy-3,6''-biflavone

C₃₃H₂₄O₁₁ (596.55). Yellow solid, mp 224~226°C (Me₂CO), [α]_D²⁵ = +30.1° (c = 2.0000, Me₂CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.



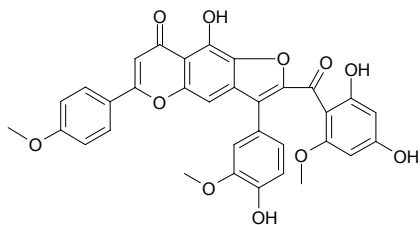
21164 3''',5,5'',7''-Tetrahydroxy-3''',4',4''-trimethoxy-6-O- α ,7- β -flavone-chalcone

C₃₃H₂₄O₁₁ (596.55). Yellow solid, mp 254~256°C (Me₂CO), [α]_D²⁵ = +17.4° (c = 0.9000, Me₂CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.

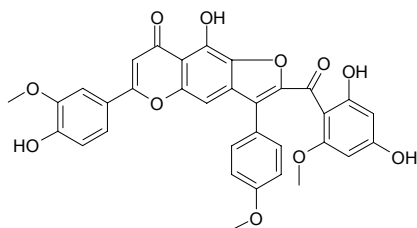


21165 4''',5,5'',7''-Tetrahydroxy-3',3''',4'-trimethoxy-6-O- α ,7- β -flavone-chalcone

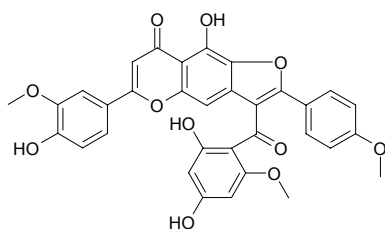
$C_{33}H_{24}O_{11}$ (596.55). Yellow solid, mp 253~255°C (Me₂CO), $[\alpha]_D^{25} = +15.5^\circ$ ($c = 1.0000$, Me₂CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.

**21166 4',5,5'',7''-Tetrahydroxy-3',3''',4''-trimethoxy-6-O- α ,7- β -flavone-chalcone**

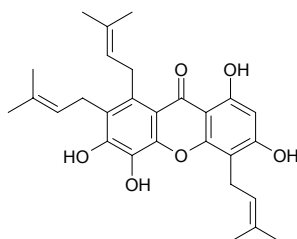
$C_{33}H_{24}O_{11}$ (596.55). Yellow solid, mp 236~238°C (Me₂CO), $[\alpha]_D^{25} = +23.1^\circ$ ($c = 0.8002$, Me₂CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.

**21167 4',5,5'',7''-Tetrahydroxy-3',3''',4''-trimethoxy-6-O- β ,7- α -flavone-chalcone**

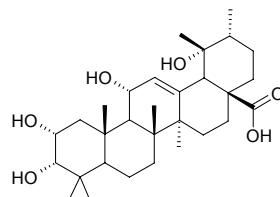
$C_{33}H_{24}O_{11}$ (596.55). Yellow solid, mp 250~253°C (Me₂CO), $[\alpha]_D^{25} = -30.1^\circ$ ($c = 0.90$, Me₂CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.

**21168 1,3,5,6-Tetrahydroxy-4,7,8-tri(3-methyl-2-butenyl)xanthone**

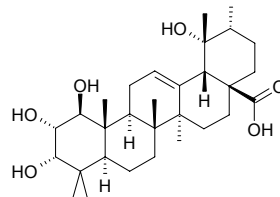
$C_{28}H_{32}O_6$ (464.56). Yellow powder (MeOH), mp 190~192°C. Pharm: Neurite outgrowth enhancer (PC12D cells, 3 μ mol/L, NGF-mediated neurite outgrowth, to enhance the ability of NGF, may be useful in the treatment of neurological disorders). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 4404.

**21169 2 α ,3 α ,11 α ,19 α -Tetrahydroxy-urs-12-en-28-oic acid**

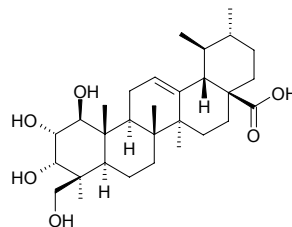
$C_{30}H_{48}O_6$ (504.71). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.

**21170 1 β ,2 α ,3 α ,19 α -Tetrahydroxyurs-12-en-28-oic acid**

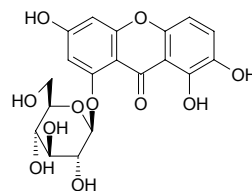
$C_{30}H_{48}O_6$ (504.71). Pharm: Cytotoxic (HSC-2, IC₅₀ = 100 μ g/mL; HGF, IC₅₀ > 200 μ g/mL). Source: DI YU *Sanguisorba officinalis*. Ref: 5160.

**21171 1 β ,2 α ,3 α ,24-Tetrahydroxyurs-12-en-28-oic acid**

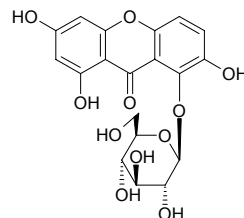
$C_{30}H_{48}O_6$ (504.71). Pharm: Antifungal. Source: TAO *Prunus persica* (peel of unripe fruits). Ref: 2371.

**21172 1,3,7,8-Tetrahydroxyxanthone-1-O- β -D-glucopyranoside**

$C_{19}H_{18}O_{11}$ (422.35). Yellow crystalline powder, mp 255~258°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.

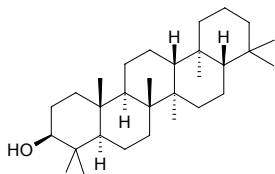
**21173 1,3,7,8-Tetrahydroxyxanthone-8-O- β -D-glucopyranoside**

$C_{19}H_{18}O_{11}$ (422.35). Cream white powder, mp 256~260°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.

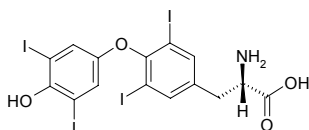


21174 Tetrahymanol

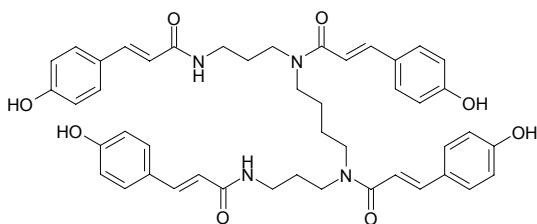
3 β -Hydroxy γ -cerane C₃₀H₅₂O (428.75). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21175 3,5,3',5'-Tetraiodothyronine**

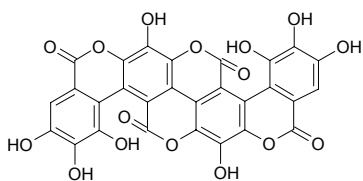
Thyrosine [300-30-1] C₁₅H₁₁I₄NO₄ (776.88). mp (-) 235°C, (\pm) 220°C (changing to black), 231–233°C (dec). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21176 N1,N5,N10,N14-Tetrakis[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane**

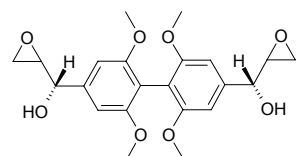
C₄₆H₅₀N₄O₈ (786.93). Pharm: Nonpeptide tachykinin NK₁ receptor antagonist (guinea pig ileum, K_i = 21.9nmol/L, hmN NK₁ receptors on CHO cells, K_i = 3.3nmol/L, K_i is the concentration of compound which displaces the log concentration response curve by log 2). Source: GAO GUI CHUN HUANG JU *Anthemis nobilis*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*] (dried flower). Ref: 4062.

**21177 Tetrameric gallic acid**

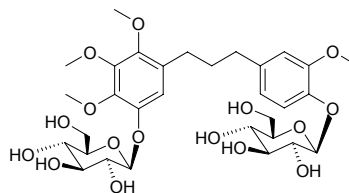
C₂₈H₁₀O₁₆ (602.38). Source: SHI LIU PI *Punica granatum*. Ref: 660.

**21178 2,6,2',6'-Tetramethoxy-4,4'-bis(2,3-epoxy-1-hydroxypropyl) biphenyl**

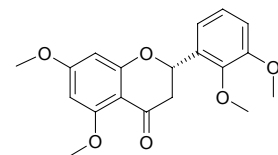
C₂₂H₂₆O₈ (418.45). Colorless needles (CHCl₃), mp 175–176°C, [α]_D²⁵ = +75° (c = 0.11, CHCl₃). Source: BAI WEI *Cynanchum atratum* (root). Ref: 3054.

**21179 2',3',4',3''-Tetramethoxy-1,3-diphenylpropane 5',4''-di-O- β -D-glucopyranoside**

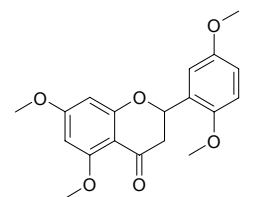
C₃₁H₄₄O₁₆ (672.69). Colorless amorphous solid. Source: LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb: yield = 0.00086%dw). Ref: 4626.

**21180 (2S)-5,7,2',3'-Tetramethoxyflavanone**

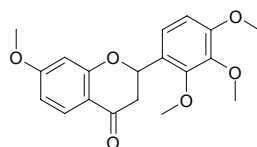
C₁₉H₂₀O₆ (344.37). Colorless solid (CHCl₃), mp 164–166°C, [α]_D²⁵ = -34.8° (c = 0.01, MeOH). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (whole herb). Ref: 3841.

**21181 5,7,2',5'-Tetramethoxyflavanone**

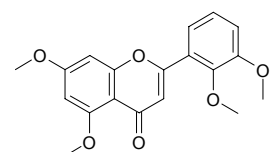
C₁₉H₂₀O₆ (344.37). Colorless solid (MeOH), mp 198–200°C, [α]_D²⁵ = -18.6° (c = 0.14, MeOH). Source: *Andrographis rothii* (whole herb). Ref: 4311.

**21182 7,2',3',4'-Tetramethoxyflavanone**

C₁₉H₂₀O₆ (344.37). Amorphous powder, mp 180–182°C (MeOH), [α]_D²⁸ = -16.3° (c = 0.12, MeOH). Source: WU CI ZHU YING HUA *Calliandra inermis*. Ref: 2588.

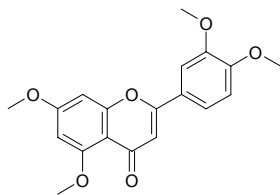
**21183 5,7,2',3'-Tetramethoxyflavone**

C₁₉H₁₈O₆ (342.35). Yellowish solid (MeOH), mp 152–154°C. Source: NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula* (whole herb). Ref: 4406.

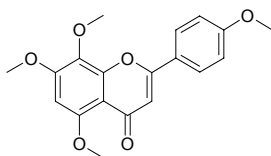


21184 5,7,3',4'-Tetramethoxyflavone

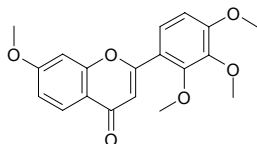
$C_{19}H_{18}O_6$ (342.35). Yellow crystals. Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 2489.

**21185 5,7,8,4'-Tetramethoxyflavone**

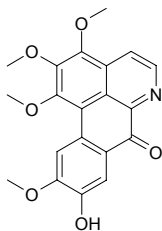
Tetra-*O*-methylisoscutelearein [6601-66-7] $C_{19}H_{18}O_6$ (342.35). Colorless rhombic crystals (methanol), mp 216–217°C. Pharm: Induces cell differentiation (mus myelocytic leukemia cells, 50 μ mol/L, growing rate = 47%, 5 μ mol/L, growing rate = 78%, 50 μ mol/L, activity of macrophages > 25%, 5 μ mol/L, activity of macrophages > 78%, HL-60, 100 μ mol/L, growing rate = (50–65%), 50 μ mol/L, growing rate = (73–79%), 100 μ mol/L, activity of macrophages > 25%, 50 μ mol/L, activity of macrophages > 10%). Source: ZHI SHI *Citrus aurantium*, YOU⁽⁴⁾ *Citrus grandis*, JU PI *Citrus reticulata*, JIAO GAN *Citrus tankan*. Ref: 900.

**21186 7,2',3',4'-Tetramethoxyflavone**

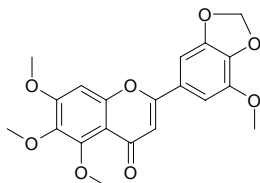
$C_{19}H_{18}O_6$ (342.35). Amorphous powder, mp 192–194°C (MeOH). Source: WU CI ZHU YING HUA *Calliandra inermis*. Ref: 2588.

**21187 1,2,3,10-Tetramethoxy-9-hydroxy-4,5,6,6 α -dehydro-7-aporphhinone**

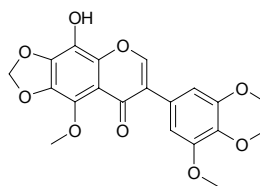
$C_{20}H_{17}NO_6$ (367.36). Nacarat powder (MeOH), mp 166–168°C. Source: XIAO YE TANG SONG CAO *Thalictrum elegans* (whole herb). Ref: 4579.

**21188 5,6,7,5'-Tetramethoxy-3',4'-methylenedioxyflavone**

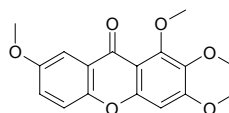
$C_{20}H_{18}O_8$ (386.36). White needles (acetone). Source: LONG XU TENG *Bauhinia championii* (stem). Ref: 4548.

**21189 5,3',4',5'-Tetramethoxy-6,7-methylenedioxyisoflavone**

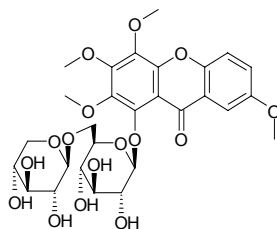
$C_{20}H_{18}O_9$ (402.36). Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 4235.

**21190 1,2,3,7-Tetramethoxyxanthone**

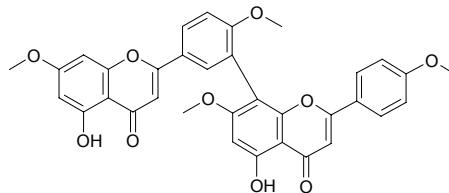
$C_{17}H_{16}O_6$ (316.31). Source: HONG CHAI HU *Bupleurum scorzoniferolium* (root). Ref: 3498.

**21191 2,3,4,7-Tetramethoxyxanthone-1-*O*- β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

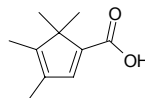
$C_{28}H_{34}O_{16}$ (626.57). Yellowish acicular crystals, mp 134–135°C, $[\alpha]_D^{25} = -125^\circ$ ($c = 0.4\%$, pyridine). Source: HUANG QIN JIAO *Veratilla baillonii*. Ref: 328.

**21192 7,4',7'',4'''-Tetra-*O*-methylamentoflavone**

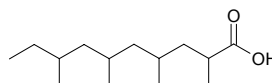
$C_{34}H_{26}O_{10}$ (594.58). Source: DA YE CAI *Selaginella doederleinii*. Ref: 660.

**21193 3,4,5,5-Tetramethylcyclopenta-1,3-dienecarboxylic acid**

$C_{10}H_{14}O_2$ (166.22). White solid. Source: *Lavandula luisieri* (essential oil). Ref: 5301.

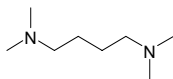
**21194 (-)-2*D*,4*D*,6*D*,8*D*-Tetramethyl decanoic acid**

$C_{14}H_{28}O_2$ (228.38). Source: E CUI *Anser cygnoides domestica*. Ref: 6.

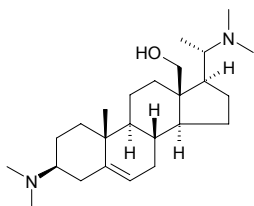


21195 Tetramethyl diaminobutane

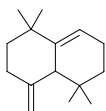
[111-51-3] C₈H₂₀N₂ (144.26). bp 169°C. Source: LANG DANG GEN *Hyoscyamus niger*, LANG DANG ZI *Hyoscyamus niger*. Ref: 6.

**21196 N,N,N',N'-Tetramethyl-holarrhimine**

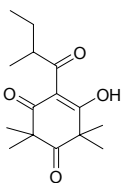
C₂₅H₄₄N₂O (388.64). mp 233~235°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 660.

**21197 1,1,5,5-Tetramethyl-4-methano-2,3,4,6,7,10-hexahydronaphthalene**

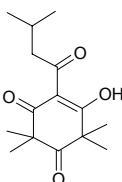
C₁₅H₂₄ (204.36). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**21198 2,2,4,4-Tetramethyl-6-(2-methyl-1-oxobutyl)-1,3,5-cyclohexanetrione**

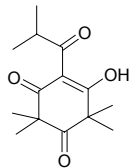
[5009-05-2] C₁₅H₂₂O₄ (266.34). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21199 2,2,4,4-Tetramethyl-6-(3-methyl-1-oxobutyl)-1,3,5-cyclohexanetrione**

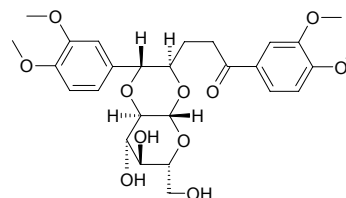
Leptospermon; Leptospermol [567-75-9] C₁₅H₂₂O₄ (266.34). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21200 2,2,4,4-Tetramethyl-6-(2-methyl-1-oxopropyl)-1,3,5-cyclohexanetrione**

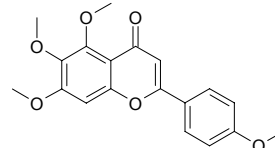
Flavesone [22595-45-5] C₁₄H₂₀O₄ (252.31). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21201 Tetra-O-methylpilosidine**

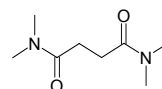
C₂₇H₃₄O₁₁ (534.57). Crystals (MeOH-EtOAc), mp 166~168°C, [α]_D²⁰ = +58.4° (c = 0.5, CHCl₃:MeOH = 1:1). Source: MAO XIAN MAO *Curculigo pilosa* (rhizome). Ref: 5095.

**21202 Tetramethylscutellarein**

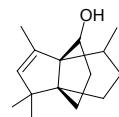
[1168-42-9] C₁₉H₁₈O₆ (342.35). Source: RI BEN ZI ZHU *Callicarpa japonica*, XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0028%dw), YANG OU XIA ZHI CAO *Marrubium peregrinum*, YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 1521, 3053.

**21203 N,N,N',N'-Tetramethylsuccinamide**

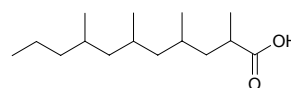
C₈H₁₆N₂O₂ (172.23). Source: XIAN MAO *Curculigo orchioides*. Ref: 660.

**21204 6,6,8,9-Tetramethyltricyclo[3.3.3.0]undec-7-en-2-ol**

C₁₅H₂₄O (220.36). Colorless to white needles, mp 62°C, [α]_D²⁰ = +8° (c = 1, CH₂Cl₂). Source: *Psiadia anchusifolia* (fresh leaf). Ref: 3787.

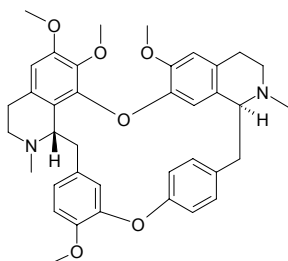
**21205 (-)-2D,4D,6D,8D-Tetramethyl undecanoic acid**

C₁₅H₃₀O₂ (242.41). Source: E CUI *Anser cygnoides domestica*. Ref: 6.

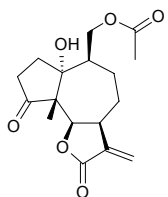


21206 Tetrandrine

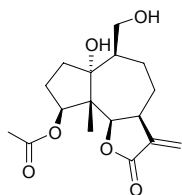
Fanchinin; Hanfangchin A [518-34-3] $C_{38}H_{42}N_2O_6$ (622.77). mp (\pm) 257~258°C, mp (+) 217~218°C, $[\alpha]_D^{26} = +252.4^\circ$ (chloroform), soluble in ethanol, ether, chloroform, insoluble in water, petroleum ether^[5507]. **Pharm:** Analgesic; antiallergic; antiarrhythmic (negative inotropic action); antibacterial (*Mycobacterium tuberculosis*, *in vitro* and *in vivo*); antineoplastic (mus, EAC and S₁₈₀, *in vivo*); anti-inflammatory (modulator of cytokine network: prevents integrin-mediated neutrophil adhesion and fMLP- or leukotriene B₄-induced transmigration, IC₅₀ = 1~5 μ g/mL)^[4416]; IL-6 inhibitor (*in vitro*, IC₅₀ > 6 μ mol/L)^[4416]; cytotoxic (HeLa, *in vitro*); platelet aggregation inhibitor (rbt); antihypertensive; muscle relaxant; used in treatment of silicosis. **Source:** BAI YAO ZI *Stephania cepharantha*, BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content = 0.994%^[5508]), CAI WEN QIAN JIN TENG *Stephania discolor*, FANG JI *Stephania tetrandra* (dried root: content scope = 1.187%~3.537%^[5501], mean content of 6 origins = 1.915%^[5508]), HAN FANG JI *Aristolochia heterophylla*, QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*], XI SHENG TENG *Cissampelos pareira*, YIN BU HUAN *Cyclea barbata*. **Ref:** 5, 658, 660, 4416, 5501, 5507, 5508.

**21207 Tetraneurin A**

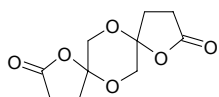
$C_{17}H_{22}O_6$ (322.36). **Pharm:** Dermatitic (causes contact dermatitis); insect antifeedant. **Source:** family Asteraceae spp. **Ref:** 658.

**21208 Tetraneurin E**

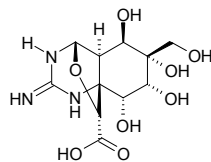
$C_{17}H_{24}O_6$ (324.38). **Pharm:** larvacide (insect larva growth inhibitor). **Source:** family Asteraceae spp. **Ref:** 658.

**21209 (5R,8R)-1,6,9,13-Tetraoxadispiro[4.2.4.2]tetradecane-2,10-dione**

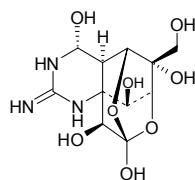
$C_{10}H_{12}O_6$ (228.20). **Source:** A ER TAI YIN LIAN HUA *Anemone altaica* **Ref:** 660.

**21210 Tetrodonic acid**

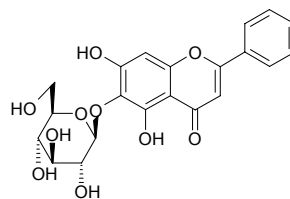
$C_{11}H_{17}N_3O_8$ (319.27). **Source:** HE TUN *Fugu ocellatus*. **Ref:** 6.

**21211 Tetrodotoxin**

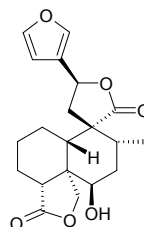
Tarichatoxin; Spheridine; Tetrodotoxin; Fugu poison; Maculotoxin; Araregai toxin $C_{11}H_{17}N_3O_8$ (319.27). Colorless prismatic crystals, $[\alpha]_D^{25} = -8.64^\circ$ ($c = 8.55$, diluted acetic acid), soluble in diluted acetic acid, slightly soluble in water, absolute ethanol, ether, insoluble in other common organic solvents.^[5507] **Pharm:** Blocks permeation of sodium through membranes of nerval fibrocyte; MLD (hmn) = 7 μ g/kg; LD₅₀ (mus, ip) = 10 μ g/kg. **Source:** HE TUN *Fugu ocellatus* (in 1909, isolated for the first time^[5507]). **Ref:** 6, 658, 5507.

**21212 Tetuin**

$C_{21}H_{20}O_{10}$ (432.39). mp 114°C. **Source:** MU HU DIE *Oroxylum indicum*. **Ref:** 6.

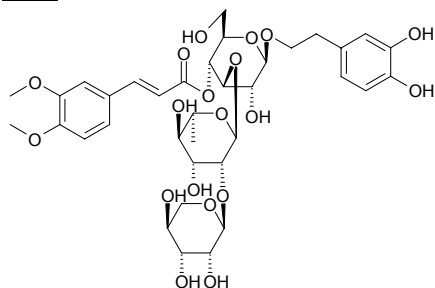
**21213 Teucrins H₂**

$C_{20}H_{24}O_6$ (360.41). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 μ g/cm², antifeedant activity = (72.0 \pm 2.7)%; control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (79 \pm 2)%; *Plutella xylostella*, 10 μ g/cm², antifeedant activity = (78.7 \pm 2.3)%, control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (71 \pm 2)%). **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts), SUAN WEI XIANG KE KE *Teucrium scordium*. **Ref:** 3478.

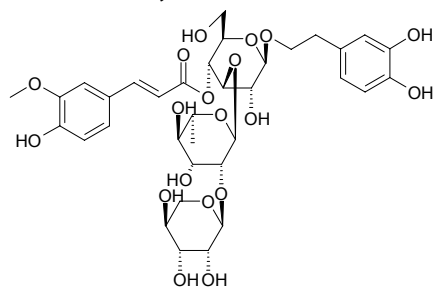


21214 Teucroside-3'''',4''''-O-dimethylether

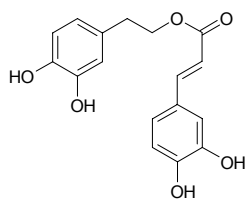
2-(3,4-Dihydroxyphenethyl)-*O*- α -L-lyxopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-4-*O*-3,4-dimethoxy-*trans*-cinnamoyl- β -D-glucopyranoside C₃₆H₄₈O₁₉ (784.77). White powder, $[\alpha]_D^{25} = -60.0^\circ$ ($c = 0.0007$, MeOH). Source: SHI CAN XIANG KE KE *Teucrium chamaedrys*. Ref: 3431.

**21215 Teucroside-3'''',-O-methylether**

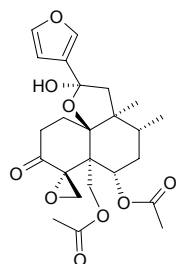
2-(3,4-Dihydroxyphenethyl)-*O*- α -L-lyxopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-4-*O*-*trans*-feruloyl- β -D-glucopyranoside C₃₅H₄₆O₁₉ (770.75). $[\alpha]_D^{25} = -87.5^\circ$ ($c = 0.0008$, MeOH). Source: SHI CAN XIANG KE KE *Teucrium chamaedrys*. Ref: 3431.

**21216 Teucrol**

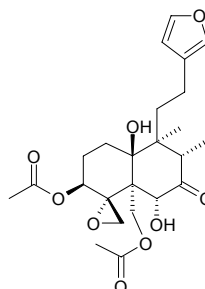
3,4-Dihydroxy- β -phenylethyl caffeate, 9'-Decarboxyrosmarinic acid C₁₇H₁₆O₆ (316.31). Off-white amorphous powder. Source: CHANG MAO XIANG KE KE *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (whole herb). Ref: 5117.

**21217 Teucrolivin A**

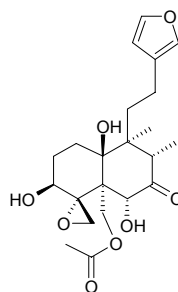
C₂₄H₃₀O₉ (462.50). Pharm: Insect antifeedant (*Spodoptera littoralis* FI₅₀ = 3mg/L, *Heliocoverpa armigera* FI₅₀ = 70mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21218 Teucrolivin B**

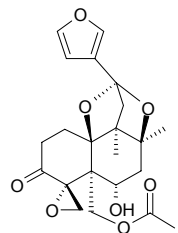
C₂₄H₃₂O₉ (464.52). Pharm: Insect antifeedant (*Spodoptera littoralis* FI₅₀ = 650mg/L, *Heliocoverpa armigera* FI₅₀ > 1000mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21219 Teucrolivin C**

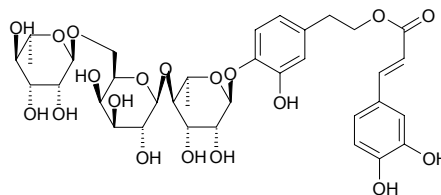
C₂₂H₃₀O₈ (422.48). Pharm: Insect antifeedant (*Spodoptera littoralis* FI₅₀ > 1000mg/L, *Heliocoverpa armigera* FI₅₀ > 1000mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21220 Teucrolivin H**

C₂₂H₂₆O₈ (418.45). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

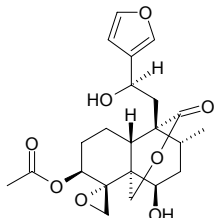
**21221 Teucroside**

Teucrol-4'-*O*- α -rhamnopyranosyl-(1''' \rightarrow 6''')- β -*O*-galacto-pyranosyl-(1''' \rightarrow 4''')- α -*O*-rhamnopyranoside; 9'-Decarboxyrosmarinic acid 4'-*O*- α -rhamnosyl-(1''' \rightarrow 6''')-*O*- β -galactosyl-(1''' \rightarrow 4''')-*O*- α -rhamnoside C₃₅H₄₆O₁₉ (770.75). Faint brown amorphous powder. Source: CHANG MAO XIANG KE KE *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (whole herb). Ref: 5117.

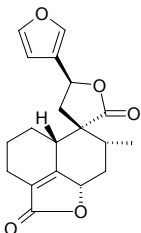


21222 Teuctosin

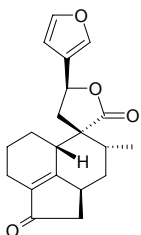
$C_{22}H_{28}O_8$ (420.46). White solid, mp 198~200°C, $[\alpha]_D = +88^\circ$ ($c = 0.25$, MeOH). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 μ g/cm², antifeedant activity = (71.5 \pm 2.0)%; control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (79 \pm 2)%; *Plutella xylostella*, 10 μ g/cm², antifeedant activity = (77.4 \pm 2.1)%; control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (71 \pm 2)%). **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts). **Ref:** 3478.

**21223 Teucvin**

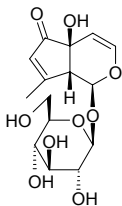
[51918-98-0] $C_{19}H_{20}O_5$ (328.37). **Source:** ER CHI XIANG KE KE *Teucrium bidentatum*. **Ref:** 577.

**21224 Teuffin**

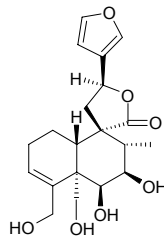
$C_{20}H_{22}O_4$ (326.40). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 μ g/cm², antifeedant activity = (80.2 \pm 2.1)%; control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (79 \pm 2)%; *Plutella xylostella*, 10 μ g/cm², antifeedant activity = (84.2 \pm 2.9)%; control Azadirachtin A, 0.5 μ g/cm², antifeedant activity = (71 \pm 2)%). **Source:** MAN HUO XIANG KE KE *Teucrium viscidum* var. *miquelianum*, RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts). **Ref:** 3478.

**21225 Teuhircoside**

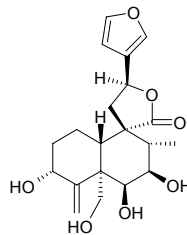
$C_{15}H_{20}O_9$ (344.32). **Source:** TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 4483.

**21226 Teulolin A**

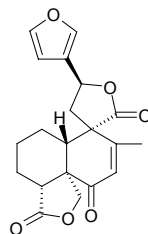
15,16-Epoxy-6 β ,7 β ,18,19-tetrahydroxy-neo-cleroda-3(4),13(16),14-trien-20,12(*S*)-olide $C_{20}H_{26}O_7$ (378.43). Colorless amorphous powder, $[\alpha]_D^{20} = -34^\circ$ ($c = 0.2$, $CHCl_3$). **Source:** HUI BAI SHI CAN *Teucrium polium*. **Ref:** 2325.

**21227 Teulolin B**

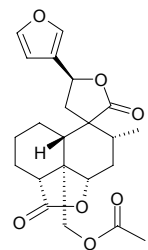
15,16-Epoxy-3 α ,6 β ,7 β ,18,19-tetrahydroxy-neo-cleroda-4(18),13(16),14-trien-20,12(*S*)-olide $C_{20}H_{26}O_7$ (378.43). Colorless amorphous powder, $[\alpha]_D^{20} = +14^\circ$ ($c = 0.31$, $CHCl_3$). **Source:** HUI BAI SHI CAN *Teucrium polium*. **Ref:** 2325.

**21228 Teuperinin A**

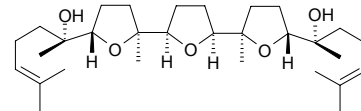
[135650-34-9] $C_{20}H_{20}O_6$ (356.38). mp 196~198°C. **Source:** ER CHI XIANG KE KE *Teucrium bidentatum*. **Ref:** 577.

**21229 Teuquadrin B**

$C_{22}H_{26}O_7$ (402.45). Colorless acicular crystals, mp 236~239°C, $[\alpha]_D^{26} = +46.27^\circ$ ($c = 0.13$, $CHCl_3$). **Source:** TIE ZHOU CAO *Teucrium quadrifarium*. **Ref:** 277.

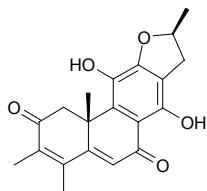
**21230 Teurilene**

$C_{30}H_{52}O_5$ (492.75). **Source:** *Eurycoma* sp. **Ref:** 4556.

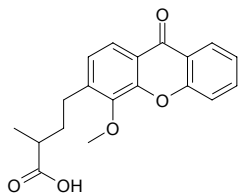


21231 Teuvinenone E

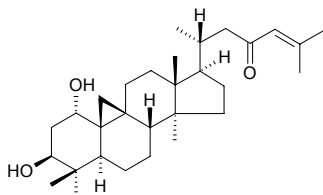
$C_{20}H_{20}O_5$ (340.38). mp 197.3°C, $[\alpha]_D^{20} = +32.0^\circ$ ($c = 0.85$, $CHCl_3$). **Pharm:** Antiproliferative (*in vitro*, MTT assay, CEM, $IC_{50} = 19.4\mu\text{mol/L}$, control Doxorubicin, $IC_{50} = 0.036\mu\text{mol/L}$, HeLa, $IC_{50} = 18.4\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.027\mu\text{mol/L}$, HCT8, $IC_{50} = 37.8\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.024\mu\text{mol/L}$, MCF7, $IC_{50} = 35.6\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.183\mu\text{mol/L}$, B16, $IC_{50} > 78.1\mu\text{mol/L}$, Doxorubicin, $IC_{50} = 0.056\mu\text{mol/L}$). **Source:** *Aegiphila thotzkiana* (root). **Ref:** 4940.

**21232 Teysmannic acid**

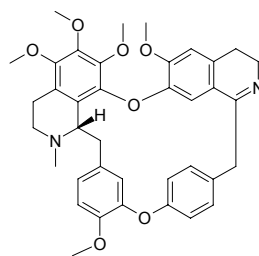
3-(3'-Carboxybutyl)-4-methoxyxanthone $C_{19}H_{18}O_5$ (326.35). Viscous liquid. **Source:** TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). **Ref:** 3937.

**21233 Thailandiol**

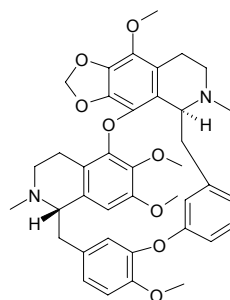
$C_{30}H_{48}O_3$ (456.72). Colorless needles, mp 75.5~76.4°C (MeOH), $[\alpha]_{589\text{nm}}^{30} = +40^\circ$ ($c = 0.15$, MeOH). **Pharm:** Anti-HIV-1 (syncytium assay: $IC_{50} = 33.4\mu\text{g/mL}$, $EC_{50} = 14.2\mu\text{g/mL}$; HIV-1 RT assay: $200\mu\text{g/mL}$, InRt = 61.5%, $IC_{50} = 156.8\mu\text{g/mL}$, Fagaronine chloride $IC_{50} = 10.9\mu\text{g/mL}$, Nevirapine $IC_{50} = 1.8\mu\text{g/mL}$). **Source:** TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). **Ref:** 4963.

**21234 Thalcimine**

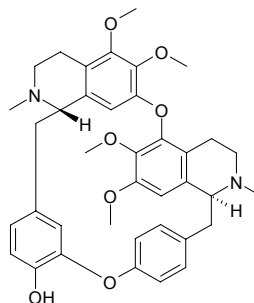
Thalsimine $C_{38}H_{40}N_2O_7$ (636.75). mp 140~142°C. **Pharm:** Analgesic; antineoplastic (mus and rat, lymphatic carcinoma NK/CY, hepatoma PC-1 and lymphatic sarcoma); anti-inflammatory; antihypertensive (anesthetic cat, 1~5mg/kg iv, blood pressure is lowered by 2.67~10.00kPa); antipyretic (mus, 1000mg/kg, sc, body temperature lowers by 2.5~2.7°C in 2h and 5.5~6.0°C in 18h); nootropic (mus, maze model, reduces completion time); sedative (mus, 500mg/kg sc, potentiates hypnotic effect of cyclobarbital by factor of 2); LD (anesthetic cat) = 10mg/kg. **Source:** MA WEI LIAN *Thalictrum foliolosum*, YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 5, 6, 658.

**21235 Thalfinine**

Thalpinine $C_{39}H_{42}N_2O_8$ (666.78). Amorphous solid, mp 117~119°C, $[\alpha]_D^{26} = +141^\circ$ ($c = 0.25$, methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, 50μg/mL); antihypertensive (rbt, 0.1~1.0mg/kg iv, blood pressure lowers by 1.33~3.07kPa and the action lasts 0.5min). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO TANG SONG CAO *Thalictrum minus*, DA YE TANG SONG CAO *Thalictrum faberi*. **Ref:** 6, 660, 661.

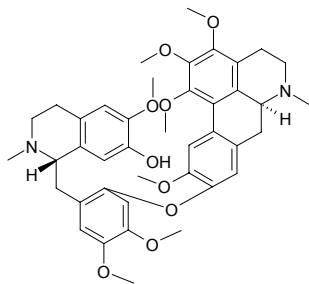
**21236 Thalfotidine**

$C_{38}H_{42}N_2O_7$ (638.77). mp 168~170°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, EC (without serum) = 62.5μg/mL, EC (with serum) = 125μg/mL); antineoplastic (rat W_{256} and mus Lewis lung cancer). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*. **Ref:** 6, 658, 660.

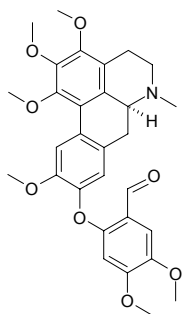


21237 Thaliadanine

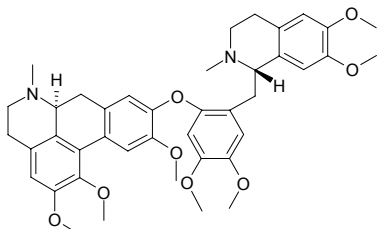
$C_{41}H_{48}N_2O_9$ (712.85). Amorphous solid, $[\alpha]_D^{26} = +81^\circ$ ($c = 0.41$, methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 100 μ g/mL); antihypertensive (rbt, 0.1mg/kg, blood pressure lowers by 2.00kPa and the action lasts 1.5min). **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21238 Thaliadine**

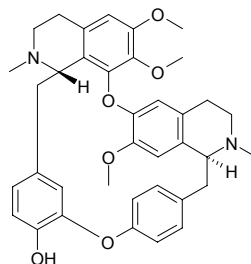
$C_{30}H_{33}NO_8$ (353.60). Yellow petaline crystals (methanol), mp 143.5–144.5°C, $[\alpha]_D^{26} = 0^\circ$ ($c = 0.22$, chloroform or methanol). **Pharm:** Antihypertensive (rbt, 0.1mg/kg, blood pressure lowers by 2.93–3.59kPa and the action lasts 2.0–3.5min). **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21239 Thalicarpine**

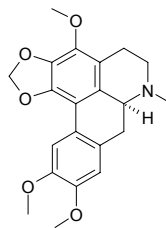
$C_{41}H_{48}N_2O_8$ (696.85). Acicular crystals (ethyl acetate), mp 160–161°C, $[\alpha]_D^{25} = +133^\circ$ ($c = 0.83$, methanol), $[\alpha]_D^{25} = +89^\circ$ ($c = 0.88$, chloroform). **Pharm:** Antibacterial (*Mycobacterium* sp., MIC = 100 μ g/mL; *Staphylococcus aureus*, MIC = 1mg/mL); antineoplastic (rat W_{256} , InRt = 90%; mus Lewis lung cancer, InRt = 74%; mus EAC, 250mg/kg ip, biotic prolonged rate = 114%; mus, ascites lymphoma, 250mg/kg ip, biotic prolonged rate = 137.2%); antifungal (*Candida albicans*, MIC = 1mg/mL); cytotoxic (HeLa, $ED_{50} = 5\mu$ mol/L); inhibits cardiac muscles (dog and monkey, iv, *in vivo*, reduces myocardial contractility and slows heart rate); antihypertensive (vasodilator, dog and monkey, *in vivo*). **Source:** CU GUO TANG SONG CAO *Thalictrum dasycarpum*, HUANG TANG SONG CAO *Thalictrum flavum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, YI XING TANG SONG CAO *Thalictrum dioicum*, ZA XING TANG SONG CAO *Thalictrum polygamum*. **Ref:** 661.

**21240 Thalicerine**

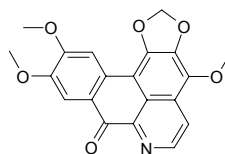
[602-83-5] $C_{37}H_{40}N_2O_6$ (608.74). Needles, +1H₂O, mp 161°C, $[\alpha]_D = +231.2^\circ$, $[\alpha]_D^{25} = +210^\circ$ ($c = 0.02$, MeOH). **Pharm:** Antineoplastic (mus, EAC, 62.5mg/mL, biotic prolonged rate = 50%); cytotoxic (HeLa, *in vitro*, $ED_{50} = 13\mu$ g/mL). **Source:** TOU MING TANG SONG CAO *Thalictrum lucidum*, XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii* (in 1959, the compound was isolated from the plant)^[5505]. **Ref:** 6, 1521, 1791, 5505.

**21241 Thalicine**

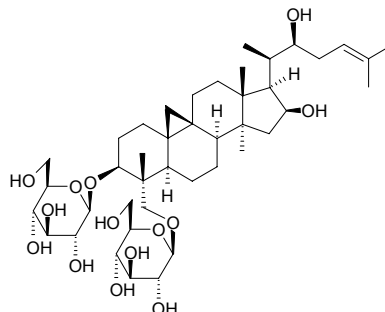
Ocoteine [3246-21-7] $C_{21}H_{23}NO_5$ (369.42). mp 137–138°C. **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 5, 6.

**21242 Thaliminine**

$C_{20}H_{15}NO_6$ (365.35). mp 263–265°C (chloroform), 274–275°C (chloroform-ethanol). **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 6.

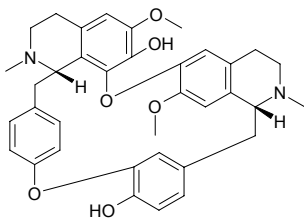
**21243 Thalicoside A**

$C_{42}H_{70}O_{14}$ (799.02). **Pharm:** Antineoplastic. **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 658.

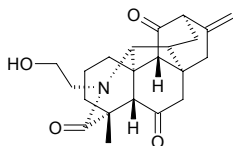


21244 Thalicerine

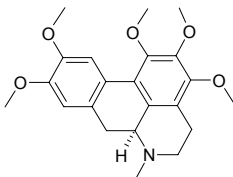
$C_{36}H_{38}N_2O_6$ (594.71). Source: YAN GUO CAO *Thalictrum thunbergii*. Ref: 6.

**21245 Thalicesessine**

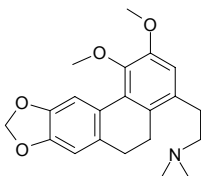
$C_{22}H_{27}NO_4$ (369.47). Pharm: Analgesic; anti-inflammatory. Source: WU BING TANG SONG CAO *Thalictrum sessile*. Ref: 658.

**21246 Thalicsimidine**

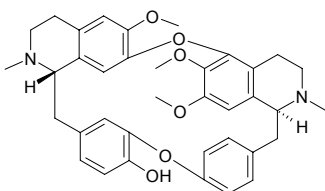
Purpureine [19775-47-4] $C_{22}H_{27}NO_5$ (385.46). Crystals (Me_2CO), mp 131~132°C, $[\alpha]_D = +66.9^\circ$ ($c = 1.42$, EtOH). Source: BI ZHI TANG SONG CAO *Thalictrum strictum*, DUN YE TANG SONG CAO *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], GAO YUAN TANG SONG CAO *Thalictrum cultratum*, HUA TANG SONG CAO *Thalictrum filamentosum*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.184%^[5508]), YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], ZI FAN LI ZHI *Annona purpurea*, *Phoebe molicella*. Ref: 6, 1521, 2981, 3111, 3116, 5508.

**21247 Thaliithuberine**

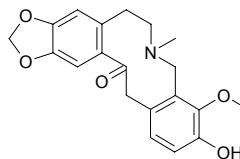
$C_{21}H_{25}NO_4$ (355.44). mp 126~127°C. Source: YAN GUO CAO *Thalictrum thunbergii*. Ref: 6.

**21248 Thalictine**

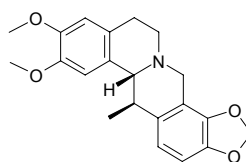
$C_{37}H_{40}N_2O_6$ (608.74). Source: GAO YUAN TANG SONG CAO *Thalictrum cultratum*, YAN GUO CAO *Thalictrum thunbergii*. Ref: 660.

**21249 Thalicticine**

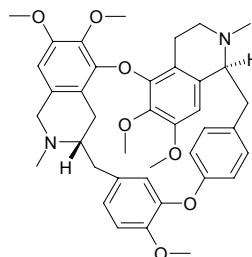
Thalicticine $C_{20}H_{21}NO_5$ (355.39). mp 261~263°C. Source: YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. Ref: 6.

**21250 Thalictrifoline**

$C_{21}H_{23}NO_4$ (353.42). Source: YAN HUANG LIAN *Corydalis thalictrifolia*. Ref: 660.

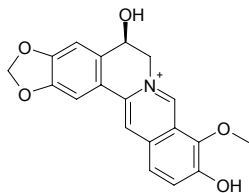
**21251 Thalidasine**

$C_{39}H_{44}N_2O_7$ (652.79). Yellowish amorphous solid, mp 105~107°C, $[\alpha]_D^{27} = -70^\circ$ ($c = 0.89$, methanol). Pharm: Antibacterial (*Staphylococcus* sp., *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus septicus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Salmonella typhimurium* and *Salmonella gallinarum*, MIC = 100µg/mg, *Bacillus mycoides*, MIC = 25µg/mL, *Mycobacterium smegmatis*, *in vivo*); antineoplastic (rat W_{256} , ED = 200mg/kg; mus EAC, 70mg/(kg·d), InRt = 50%; mus S_{180} , 70mg/(kg·d), InRt = 50%; mus Lewis lung cancer, 100mg/(kg·d), InRt = 58%); antihypertensive (rbt, 4mg/kg iv, *in vivo*, blood pressure lowers by 2.40kPa and the action lasts 3min); used in treatment of cancer of stomach; LD₅₀ (mus, ip) = 520mg/kg, (mus, iv) = 120mg/kg. Source: CHENG KOU TANG SONG CAO *Thalictrum fargesii* (root: content = 0.196%^[5508]), CU GUO TANG SONG CAO *Thalictrum dasycarpum*, DA YE TANG SONG CAO *Thalictrum faberi*, GAO SHAN TANG SONG CAO *Thalictrum alpinum*, TOU MING TANG SONG CAO *Thalictrum lucidum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZHAN ZHI TANG SONG CAO *Thalictrum squarrosum* (root: mean content of 3 origins = 0.108%^[5508]), ZOU WEN TANG SONG CAO *Thalictrum rugosum*. Ref: 661, 658, 5508.

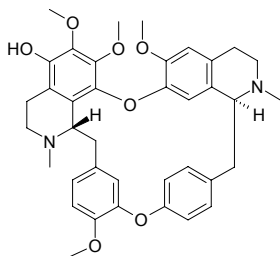


21252 Thalidastine

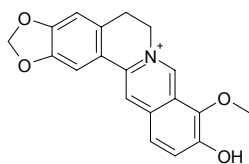
$C_{19}H_{17}NO_5$ (339.35). Source: NAN TIAN ZHU GENG *Nandina domestica*, XIANG TANG SONG CAO *Thalictrum foetidum*. Ref: 660.

**21253 Thalidezine**

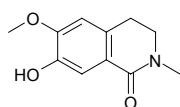
$C_{38}H_{42}N_2O_7$ (638.77). mp 158~159°C. Pharm: Antibacterial (*Bacillus pneumoniae* and *Mycobacterium* sp.); antifungal (*Candida albicans*, MIC = 100µg/mL). Source: BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)^[5508], BING GUO TANG SONG CAO *Thalictrum podocarpum*, DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)^[5508], FEN SHI TANG SONG CAO *Thalictrum fendleri*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)^[5508], MA WEI LIAN *Thalictrum foliolosum* (root: content = 0.50%)^[5508], XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)^[5508], XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)^[5508], YAN GUO CAO *Thalictrum thunbergii* (root: content = 0.16%)^[5508], YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)^[5508]. Ref: 6, 658, 5508.

**21254 Thalifendine**

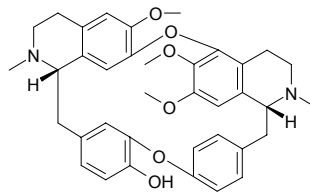
[18207-71-1] $C_{19}H_{16}NO_4$ (322.34). Source: HE NAN TANG SONG CAO *Thalictrum honanense*, MA WEI LIAN *Thalictrum foliolosum*. Ref: 537, 660.

**21255 Thalifoline**

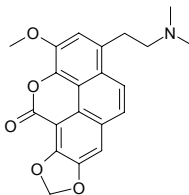
$C_{11}H_{13}NO_3$ (207.23). Source: JI YING SU *Argemone mexicana*, BIAN FU GE GEN *Menispermum dauricum*, CHANG YE HOU KE GUI *Cryptocarya longifolia* (leaf, stem, root and fruit), TIE XIAN JUE YE TANG SONG CAO *Thalictrum minus* var. *adiantifolium* (root). Ref: 660, 1521, 3792.

**21256 Thalifortine**

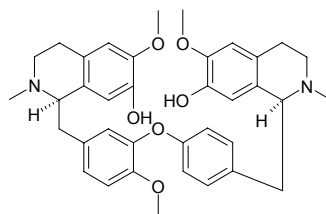
$C_{37}H_{40}N_2O_6$ (608.74). Source: HUA DONG TANG SONG CAO *Thalictrum fortunei*. Ref: 660.

**21257 Thaligluconone**

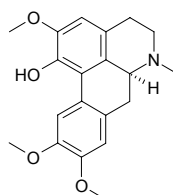
$C_{21}H_{19}NO_5$ (365.39). Yellow acicular crystals (methanol), mp 197°C; 190~191°C, 115°C melts then resolidifies, 188~190°C, melts again. Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus coli* and *Bacillus pneumoniae*, MIC = 100µg/mL, *Mycobacterium smegmatis*, MIC = 25µg/mL); antifungal (*Candida albicans*, MIC = 50µg/mL); antihypertensive (dog, 1.0mg/kg, blood pressure lowers by 4.00kPa, rbt). Source: BING GUO TANG SONG CAO *Thalictrum podocarpum*, LV TANG SONG CAO *Thalictrum glaucum*, TOU MING TANG SONG CAO *Thalictrum lucidum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZA XING TANG SONG CAO *Thalictrum polygamum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. Ref: 661.

**21258 (+)-Thaligrisine**

$C_{37}H_{42}N_2O_6$ (610.76). Pharm: Mitochondrial respiratory chain complex I inhibitor (IC₅₀ = (1.27±0.18)µmol/L, Rolliniastatin-1, IC₅₀ = (0.6±0.04)nmol/L, Rotenone, IC₅₀ = (5.10±0.90)nmol/L)^[4954]. Source: GE LUN BI YA MU BAN SHU *Xylopia columbiana* (fruit). Ref: 4954.

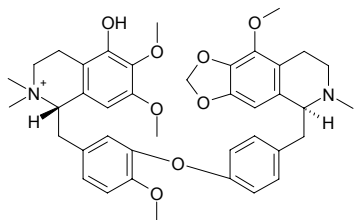
**21259 Thaliporphine**

$C_{20}H_{23}NO_4$ (341.41). Source: DUN YE TANG SONG CAO *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], GAO SHAN TANG SONG CAO *Thalictrum alpinum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 660.

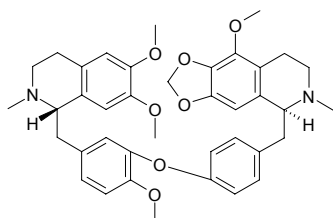


21260 Thalirabine

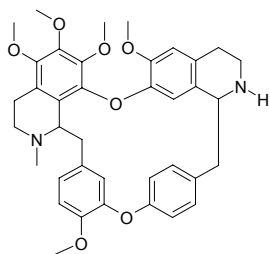
$C_{40}H_{47}N_2O_8^+$ (683.83). Hydroxide, cream-colored amorphous solid, mp 131~132°C (dec), $[\alpha]_D^{26} = +142^\circ$ ($c = 0.548$, methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, EC = 100 μ g/mL); antihypertensive. **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21261 Thaliracebine**

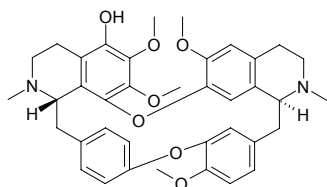
$C_{39}H_{44}N_2O_7$ (652.79). Amorphous solid, mp 83~84°C, $[\alpha]_D^{26} = +121^\circ$ ($c = 0.28$, methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, EC = 100 μ g/mL); antihypertensive (rbt, 0.1mg/kg iv, blood pressure lowers by 2.67~2.93kPa and the action lasts 0.5min). **Source:** DA YE TANG SONG CAO *Thalictrum faberi*, XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21262 Thaliamine**

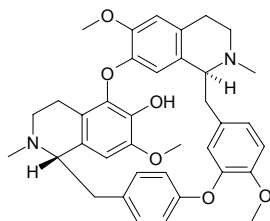
$C_{38}H_{42}N_2O_7$ (638.77). mp 191~194°C. **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 6.

**21263 Thalispine**

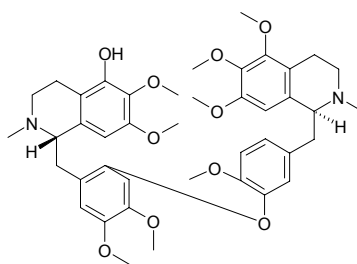
$C_{38}H_{42}N_2O_7$ (638.77). Colorless acicular crystals (water-methanol), mp 151~153°C, 143~145°C, $[\alpha]_D = -109^\circ$ ($c = 0.17$, methanol). **Pharm:** Antiarrhythmic (animal, induced by aconitine); antispasmodic (rbt and rat intestine); inhibits cardiac fibrillation (animal, induced by electrostimulation, 10mg/kg iv); CNS depressant (mus); antihypertensive (dog, cat and rbt); LD (rat, orl, death on third day) = 612mg/kg. **Source:** MA WEI LIAN *Thalictrum foliolosum*, ZI JIN YE TANG SONG CAO *Thalictrum isopyroides*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 658.

**21264 Thalmine**

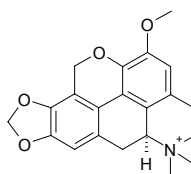
$C_{37}H_{40}N_2O_6$ (608.74). Crystals (50% ethanol), mp 140~142°C, $[\alpha]_D^{25} = +36.1^\circ$ ($c = 0.92$, ethanol). **Pharm:** Antineoplastic (rat and mus, ascites lymphoma, *in vivo*); anti-inflammatory (animal model). **Source:** *Thalictrum* sp. **Ref:** 658.

**21265 Thalmineline**

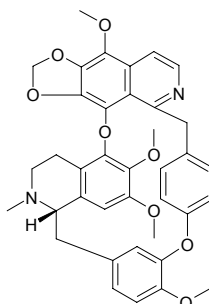
$C_{45}H_{52}N_2O_{10}$ (744.89). **Source:** GAO YUAN TANG SONG CAO *Thalictrum cultratum*, E MEI TANG SONG CAO *Thalictrum omeiense*. **Ref:** 660.

**21266 Thalphenine**

$C_{21}H_{22}NO_4^+$ (352.39). Chloride: colorless acicular crystals (acetone-methanol), mp 186~187°C (dec), $[\alpha]_D = +69^\circ$ ($c = 1.3$, ethanol); bitter acid salt: mp 180~182°C (dec). **Pharm:** Antibacterial (*Staphylococcus aureus* and *Mycobacterium smegmatis*, MIC = 1000 μ g/mL); antifungal (*Candida albicans*, MIC = 1000 μ g/mL). **Source:** TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZA XING TANG SONG CAO *Thalictrum polygamum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

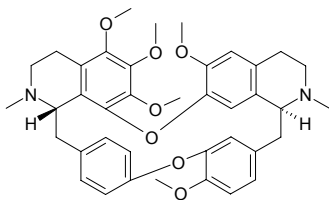
**21267 Thalphine**

$C_{38}H_{36}N_2O_8$ (648.72). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*. **Ref:** 6, 660.

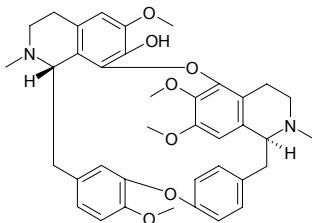


21268 Thalrugosaminine

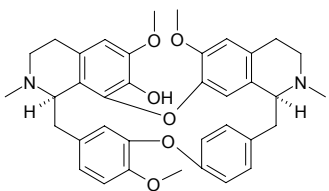
$C_{39}H_{44}N_2O_7$ (652.79). Yellowish amorphous solid, mp 103~105°C, $[\alpha]_D^{25} = -90.4^\circ$ ($c = 0.104$, methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 50µg/mL); antihypertensive (rbt). **Source:** GAO SHAN TANG SONG CAO *Thalictrum alpinum*, MA WEI LIAN *Thalictrum foliolosum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21269 Thalrugosidine**

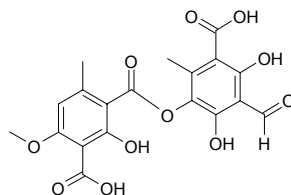
$C_{38}H_{42}N_2O_7$ (638.77). Colorless acicular crystals (methanol), mp 172~174°C, $[\alpha]_D^{30} = -185^\circ$ (methanol). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Bacillus septicus*, *Mycobacterium smegmatis* and *Salmonella typhimurium*, MIC = 100µg/mL). **Source:** GAO SHAN TANG SONG CAO *Thalictrum alpinum*, MA WEI LIAN *Thalictrum foliolosum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21270 Thalrugosine**

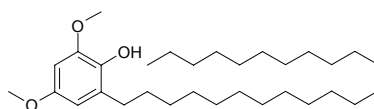
$C_{37}H_{40}N_2O_6$ (608.74). Colorless acicular crystals (absolute ether), mp 216~218°C, $[\alpha]_D^{30} = +128^\circ$ (methanol), $[\alpha]_D^{21} = +162.9^\circ$ ($c = 1.16$, methanol). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Bacillus septicus*, *Mycobacterium smegmatis* and *Salmonella typhimurium*, MIC = 100µg/mL); antifungal (*Candida albicans*, MIC = 100µg/mL); antihypertensive (dog, 0.5mg/kg and 1.0mg/kg, blood pressure lowered by 1.33kPa and 6.90kPa respectively). **Source:** PU FU SHI DA GONG LAO *Mahonia repens*, TOU MING TANG SONG CAO *Thalictrum lucidum*, XIAO TANG SONG CAO *Thalictrum minus*, YIN BU HUAN *Cyclea barbata*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21271 Thamnic acid**

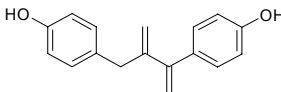
$C_{19}H_{16}O_{11}$ (420.33). mp 223°C. **Source:** XUE CHA *Thamnia vermicularis*. **Ref:** 6.

**21272 Thamnin**

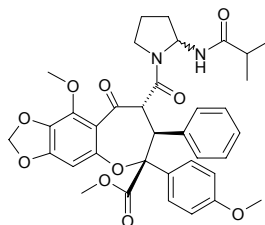
$C_{31}H_{56}O_3$ (476.79). Amorphous substance. **Source:** XUE CHA *Thamnia vermicularis*. **Ref:** 2256.

**21273 Thannilignan**

$C_{17}H_{16}O_2$ (252.32). **Source:** WEI MAO HE ZI *Terminalia chebula* var. *tomentella*. **Ref:** 2268.

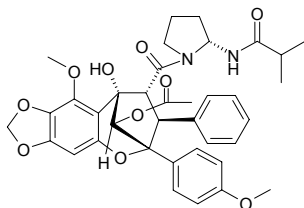
**21274 Thapoxepine A**

(+)-(2*R*,3*S*,4*R*,2'*RS*)-1-[2,3,4,5-Tetrahydro-2-methoxycarbonyl-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-5-oxo-3-phenyl-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine $C_{36}H_{38}N_2O_{10}$ (658.71). Epimeric mixture of (2'*S*:2'*R* = 2:1), $[\alpha]_D^{20} = +55^\circ$ ($c = 0.6$, $CHCl_3$). **Pharm:** Insecticidal inactive (neonate larvae of *Spodoptera littoralis*, survival rate $LC_{50} > 50\mu\text{g/g}$, control Azadirachtin, survival rate $LC_{50} = 6.1\mu\text{g/g}$; growth inhibition $EC_{50} > 50\mu\text{g/g}$, Azadirachtin, growth inhibition $EC_{50} = 0.11\mu\text{g/g}$). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

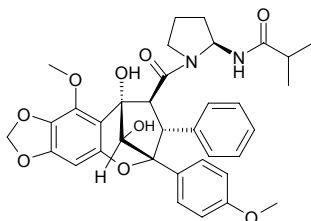


21275 Thapsakin A 10-O-acetate

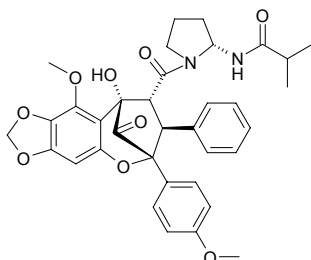
(-)-(2*R*,3*S*,4*R*,5*R*,10*S*,2'*S*)-1-[2,3,4,5-Tetrahydro-10-acetyloxy-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C₃₇H₄₀N₂O₁₀ (672.74). mp. 150~152°C, [α]_D²⁰ = -24° (c = 0.5, CHCl₃). **Pharm:** Insecticidal inactive (neonate larvae of *Spodoptera littoralis*, survival rate LC₅₀ > 50μg/g, control Azadirachtin, survival rate LC₅₀ = 6.1μg/g; growth inhibition EC₅₀ > 50μg/g, Azadirachtin, growth inhibition EC₅₀ = 0.11μg/g). **Source:** KE SHI MI ZI LAN *Aglaiia edulis*. **Ref:** 2355.

**21276 Thapsakin B**

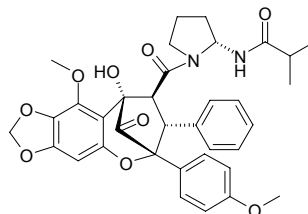
(+)-(2*R*,3*R*,4*S*,5*R*,10*S*,2'*R**S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine [250161-87-6] C₃₅H₃₈N₂O₉ (630.70). [α]_D²⁰ = +24° (c = 0.4, CHCl₃). **Source:** KE SHI MI ZI LAN *Aglaiia edulis*. **Ref:** 2355.

**21277 Thapsakone A**

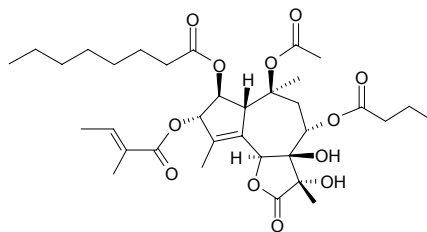
(+)-(2*R*,3*S*,4*R*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C₃₅H₃₆N₂O₉ (628.69). [α]_D²⁰ = +23° (c = 0.6, CHCl₃). **Source:** KE SHI MI ZI LAN *Aglaiia edulis*. **Ref:** 2355.

**21278 Thapsakone B**

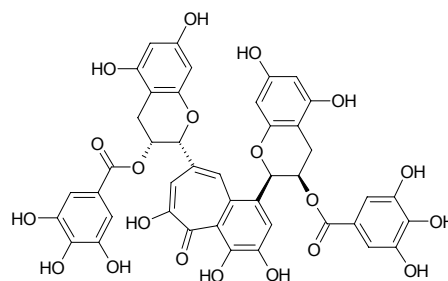
(+)-(2*R*,3*R*,4*S*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C₃₅H₃₆N₂O₉ (628.69). [α]_D²⁰ = +8° (c = 0.2, CHCl₃). **Source:** KE SHI MI ZI LAN *Aglaiia edulis*. **Ref:** 2355.

**21279 Thapsigargin**

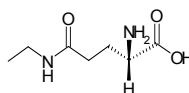
C₃₄H₅₀O₁₂ (650.77). **Pharm:** Activates basophylic cells; activates mastocytes; activates neutrophile granulocytes (during inflammatory reaction). **Source:** DU HU LUO BO *Thapsia garganica*. **Ref:** 658.

**21280 Theaflavin 3,3'-digallate**

C₄₃H₃₂O₂₀ (868.72). **Pharm:** Anti-inflammatory (NO production inhibitor)^[4415]. **Source:** WU LONG CHA *Camellia sinensis* var. *viridis*. **Ref:** 1521. 4415.

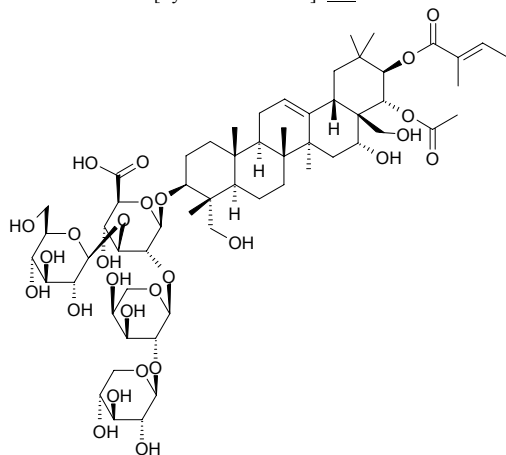
**21281 Theanine**

C₇H₁₄N₂O₃ (174.20). mp 217~218°C (dec). **Source:** CHA ZI XIN *Camellia oleifera*, CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*], YOU CHA GEN PI *Camellia oleifera*. **Ref:** 6.

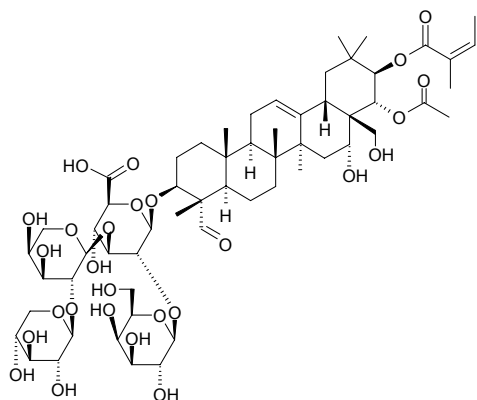


21282 Theasaponin

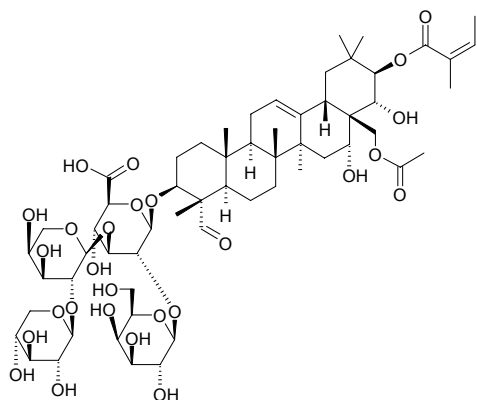
$C_{59}H_{92}O_{27}$ (1233.37). **Pharm:** Hemolytic; anti-exudation. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 658.

**21283 Theasaponin E₁**

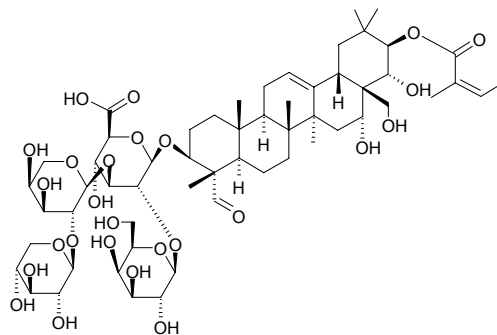
$C_{59}H_{90}O_{27}$ (1231.36). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21284 Theasaponin E₂**

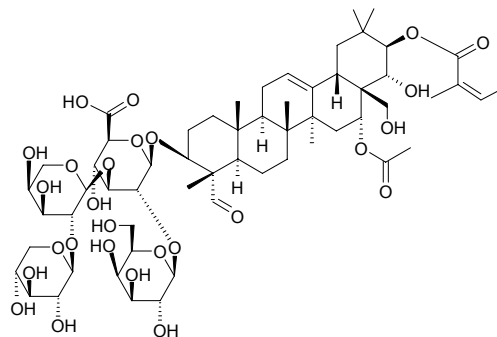
$C_{59}H_{90}O_{27}$ (1231.36). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21285 Theasaponin E₃**

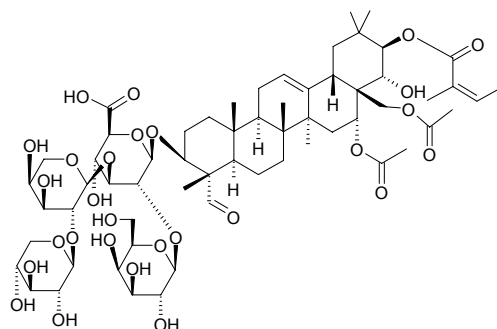
21-*O*-Angeloyltheasa-21-*O*-angeloyltheasapogenol E 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)[β -*D*-xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{57}H_{88}O_{26}$ (1189.32). Colorless fine crystals ($CHCl_3$ -MeOH), mp 214.4~215.5°C, $[\alpha]_D^{27} = +17.0^\circ$ ($c = 0.95$, MeOH). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21286 Theasaponin E₄**

16-*O*-Acetyl-21-*O*-angeloyltheasapogenol E 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)[β -*D*-xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{59}H_{90}O_{27}$ (1231.36). Colorless fine crystals ($CHCl_3$ -MeOH), mp 238.8~224.3°C, $[\alpha]_D^{27} = +17.4^\circ$ ($c = 1.00$, MeOH). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

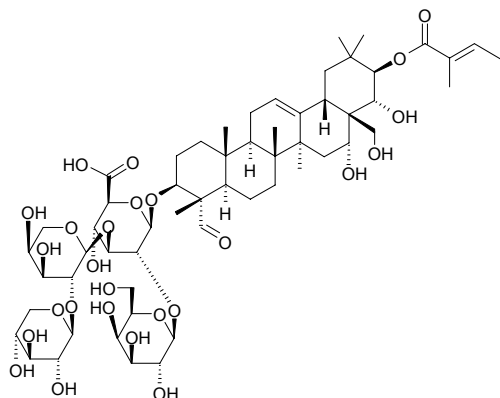
**21287 Theasaponin E₅**

16,28-Di-*O*-acetyl-21-*O*-angeloyltheasapogenol E 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)[β -*D*-xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid $C_{61}H_{92}O_{28}$ (1273.40). Colorless fine crystals ($CHCl_3$ -MeOH), mp 216.2~216.4°C, $[\alpha]_D^{27} = +21.5^\circ$ ($c = 1.00$, MeOH). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

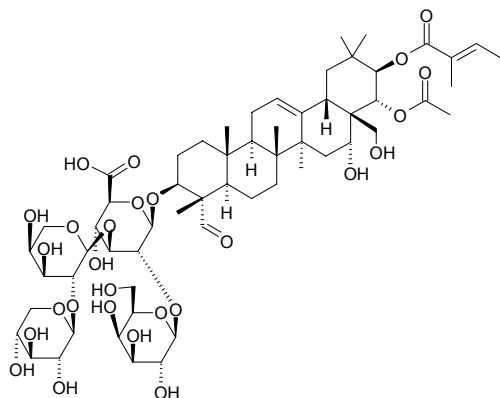


21288 Theasaponin E₆

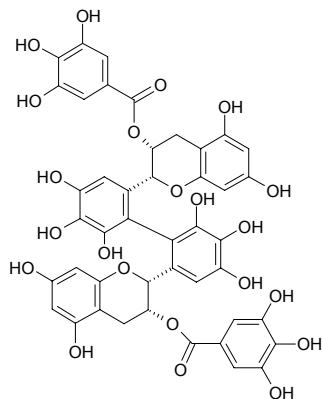
21-*O*-Tigloyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid C₅₇H₈₈O₂₆ (1189.32). Colorless fine crystals (CHCl₃-MeOH), mp 209.1~210.0°C, [α]_D²⁷ = +18.2° (c = 1.50, MeOH). Source: CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 4537.

**21289 Theasaponin E₇**

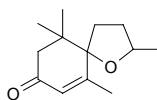
21-*O*-Tigloyl-22-*O*-acetyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid C₅₉H₉₀O₂₇ (1231.36). Colorless fine crystals (CHCl₃-MeOH), mp 196.4~198.0°C, [α]_D²⁷ = +10.9° (c = 3.00, MeOH). Source: CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 4537.

**21290 Theasinensin A**

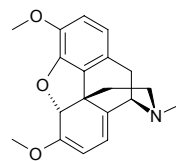
C₄₄H₃₄O₂₂ (914.75). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 658.

**21291 Theaspirone**

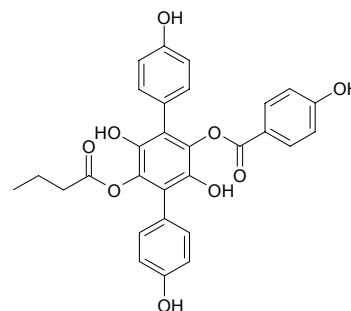
C₁₃H₂₀O₂ (208.30). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**21292 Thebaine**

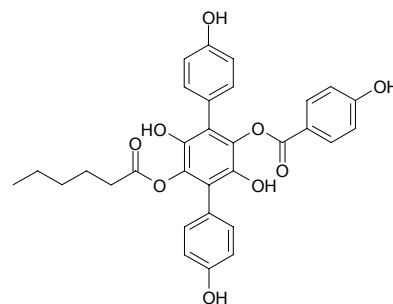
[115-37-7] C₁₉H₂₁NO₃ (311.38). mp 193°C. Pharm: Analgesic (habit forming); anesthetic; CNS depressant (low dose); paralyzes respiration (high dose); spasmogenic (high dose); LD₅₀ (mus, ip) = 20mg/kg, (mus, sc) = 31mg/kg, (rbt, sc) = 14mg/kg. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658.

**21293 Thelephantin A**

C₂₉H₂₄O₉ (516.51). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

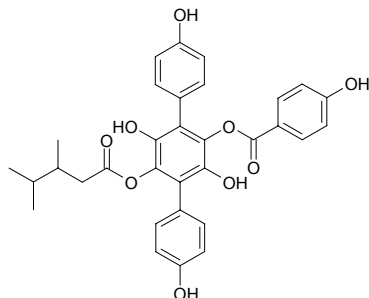
**21294 Thelephantin B**

C₃₁H₂₈O₉ (544.56). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

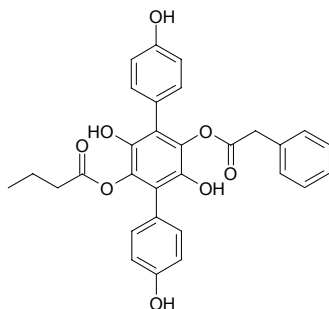


21295 Thelephantin C

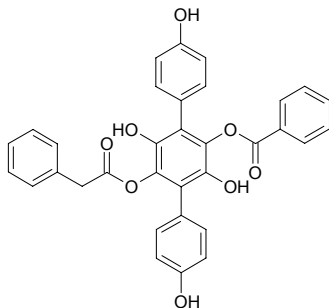
$C_{32}H_{30}O_9$ (558.58). Grayish solid, $[\alpha]_D^{20} = +3.75^\circ$ ($c = 1.01$, MeOH). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

**21296 Thelephantin D**

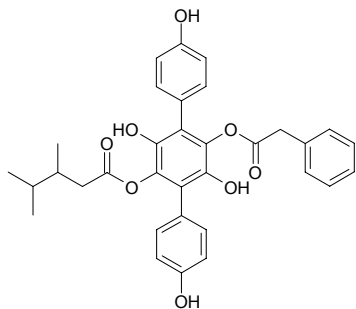
$C_{30}H_{26}O_8$ (514.54). Light red brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21297 Thelephantin E**

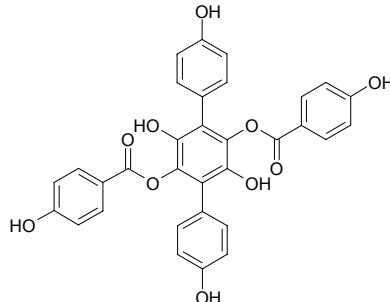
$C_{33}H_{24}O_8$ (548.55). Light red brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21298 Thelephantin F**

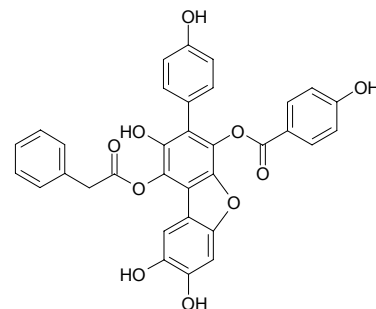
$C_{33}H_{32}O_8$ (556.62). Grayish solid, $[\alpha]_D^{20} = +2.93^\circ$ ($c = 0.82$, CH_3OH). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21299 Thelephantin G**

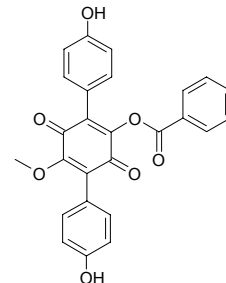
$C_{32}H_{22}O_{10}$ (556.53). Light green brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21300 Thelephantin H**

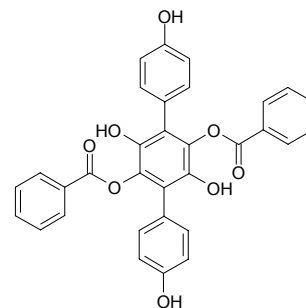
$C_{33}H_{22}O_{10}$ (578.54). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21301 Thelephantin I**

4,4''-Dihydroxy-2'-benzoyloxy-5'-methoxy [1,1':4',1''-terphenyl]-3',6'-dione $C_{26}H_{18}O_7$ (442.43). Reddish orange solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

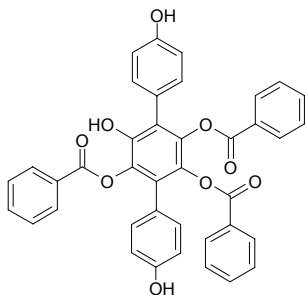
**21302 Thelephantin J**

3',4,4'',6'-Tetrahydroxy-2',5'-dibenzoyloxy [1,1':4',1''-terphenyl] $C_{32}H_{22}O_8$ (534.53). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

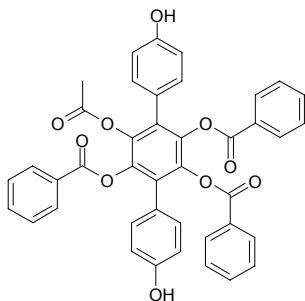


21303 Thelephantin K

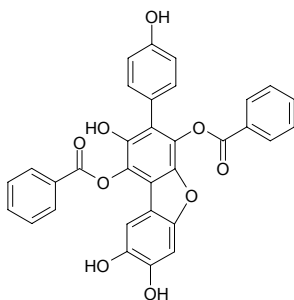
4,4'',6''-Trihydroxy-2',3',5'-tribenzoyloxy [1,1':4',1''-terphenyl] C₃₉H₂₆O₉ (638.64). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21304 Thelephantin L**

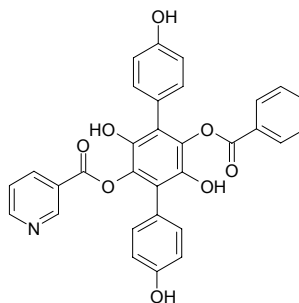
4,4''-Dihydroxy-2',3',5'-tribenzoyloxy-6'-acetyloxy[1,1':4',1''-terphenyl] C₄₁H₂₈O₁₀ (680.67). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21305 Thelephantin M**

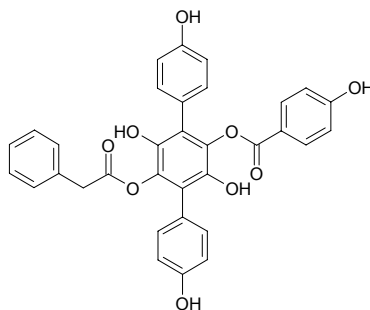
Di[benzoic acid]2,7,8-trihydroxy-3-(4-hydroxyphenyl)dibenzofuran-1,4-diyl C₃₂H₂₀O₉ (548.51). Yellow brown solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21306 Thelephantin N**

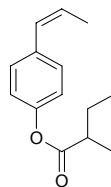
3',4,4'',6''-Tetrahydroxy-2'-benzoyloxy-5'-(3-pyridinecarboxyl)[1,1':4',1''-terphenyl] C₃₁H₂₁NO₈ (535.51). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21307 Thelephorin A**

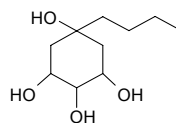
C₃₃H₂₄O₉ (564.55). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21308 Thellungianin F**

C₁₄H₁₈O₂ (218.30). Colorless liquid. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 806.

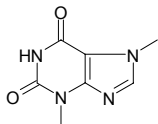
**21309 Thellungianol**

1-Butyl-3,4,5-trihydroxy-cyclohexanol C₁₀H₂₀O₄ (204.27). Colorless acicular crystals, mp 156~160°C. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 805.

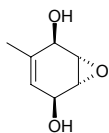


21310 Theobromine

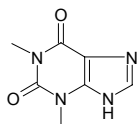
3,7-Dimethylxanthine [83-67-0] C₇H₈N₄O₂ (180.17). Acicular crystals, mp 357°C, 290~295°C (sub), slightly soluble in ethanol, water, almost insoluble in benzene, chloroform, ether.^[5507] **Pharm:** Coronary vasodilator; diuretic; CNS stimulant; used in treatment of hepatic edema; inhibits cancer cell invasion inactive (MM1 cells, *in vitro*, 10µg/mL)^[4329]. **Source:** BA XI XIANG WU HUAN ZI *Paullinia cupana*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, KE KE *Theobroma cacao*, SU DAN KE LE GUO *Cola acuminata*. **Ref:** 6, 658, 4329, 5507.

**21311 Theobroxide**

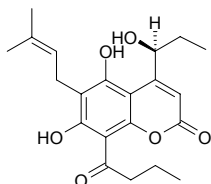
C₇H₁₀O₃ (142.16). **Pharm:** Potato micro-tuber inducer (10µmol/L). **Source:** *Lasiodiplodia theobromae*. **Ref:** 3966.

**21312 Theophylline**

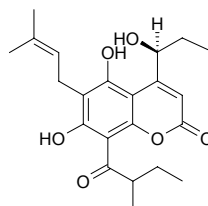
Theocin; Theolix; Theograd; Armophylline [58-55-9] C₇H₈N₄O₂ (180.17). mp 264°C; soluble in water, ethanol, chloroform, slightly ether.^[5507] **Pharm:** Coronary vasodilator; diuretic; reduces vasa publica permeability and prevents exudative pulmonary edema (gpg); antiasthmatic (bronchial smooth muscle relaxant); stimulates center and cardiac muscles; used in treatment of angina pectoris, asthma, and cardiac edema. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*] (in 1889, discovered by Kossel^[5507]), BA XI XIANG WU HUAN ZI *Paullinia cupana*. **Ref:** 6, 658, 5507.

**21313 Theraphin A**

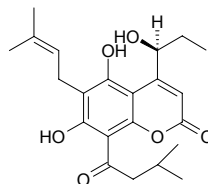
C₂₁H₂₆O₆ (374.44). Yellowish oil, [α]_D = -6.2° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, IC₅₀ = 7.5µmol/L, Col2, IC₅₀ = 7.2µmol/L, KB, IC₅₀ = 3.5µmol/L, LNCaP, IC₅₀ = 3.5µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC₅₀ = 9.7µmol/L, SI = 0.36; *Plasmodium falciparum* clone W2, IC₅₀ = 7.7µmol/L, SI = 0.45; control Chloroquine, IC₅₀ = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21314 Theraphin B**

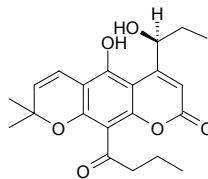
C₂₂H₂₈O₆ (388.46). Yellowish oil, [α]_D = -12.7° (c = 0.2, MeOH). **Pharm:** Cytotoxic (Lu1, IC₅₀ = 16.2µmol/L, Col2, IC₅₀ = 7.2µmol/L, KB, IC₅₀ = 5.7µmol/L, LNCaP, IC₅₀ = 3.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC₅₀ = 9.8µmol/L, SI = 0.58; *Plasmodium falciparum* clone W2, IC₅₀ = 9.6µmol/L, SI = 0.59; control Chloroquine, IC₅₀ = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21315 Theraphin C**

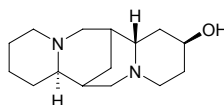
C₂₂H₂₈O₆ (388.46). Yellowish oil, [α]_D = -7.1° (c = 0.2, MeOH). **Pharm:** Cytotoxic (Lu1, IC₅₀ = 42.8µmol/L, Col2, IC₅₀ = 13.1µmol/L, KB, IC₅₀ = 6.2µmol/L, LNCaP, IC₅₀ = 6.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC₅₀ = 9.5µmol/L, SI = 0.65; *Plasmodium falciparum* clone W2, IC₅₀ = 5.1µmol/L, SI = 1.22; control Chloroquine, IC₅₀ = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21316 Theraphin D**

C₂₁H₂₄O₆ (372.42). Yellowish oil, [α]_D = -118.8° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, IC₅₀ > 53.8µmol/L, Col2, IC₅₀ > 53.8µmol/L, KB, IC₅₀ = 52.2µmol/L, LNCaP, IC₅₀ = 6.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC₅₀ = 11.1µmol/L, SI = 4.70; *Plasmodium falciparum* clone W2, IC₅₀ = 10.4µmol/L, SI = 5.0; control Chloroquine, IC₅₀ = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

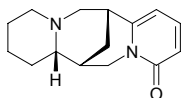
**21317 Thermopsamine**

C₁₅H₂₆N₂O (250.39). mp 154-155°C. **Source:** MU MA DOU *Thermopsis lanceolata*. **Ref:** 6.

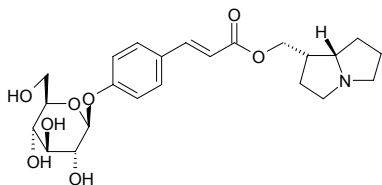


21318 Thermopsine

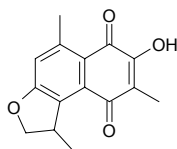
$C_{15}H_{20}N_2O$ (244.34). mp (+) 207°C, (-) 206.5°C, (\pm) 171~172°C. Source: GAO SHAN HUANG HUA *Thermopsis alpina*, MU MA DOU *Thermopsis lanceolata*, YE JUE MING *Thermopsis lupinoides*. Ref: 6.

**21319 Thesinine-4'-O- β -D-glucoside**

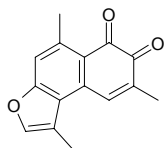
$C_{23}H_{31}NO_8$ (449.50). Colorless amorphous solid. Source: LIU LI JU *Borago officinalis*. Ref: 1958.

**21320 Thespesone**

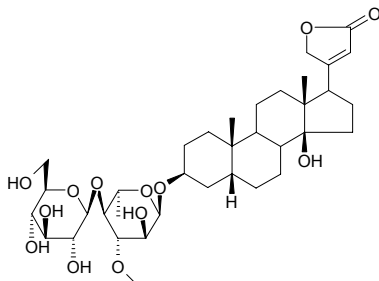
$C_{15}H_{14}O_4$ (258.28). Pharm: Antineoplastic (hmn thymocyte MCF7); inhibits cytochrome C and P450; antioxidant, inhibits lipid peroxidation. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069, 2074.

**21321 Thespone**

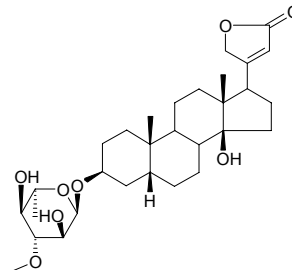
$C_{15}H_{12}O_3$ (240.26). Pharm: Antineoplastic (hmn thymocyte MCF7); inhibits cytochrome C and P450; antioxidant, inhibits lipid peroxidation. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069, 2074.

**21322 Thevebioside**

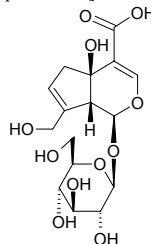
$C_{36}H_{56}O_{13}$ (696.84). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

**21323 Thevefoline**

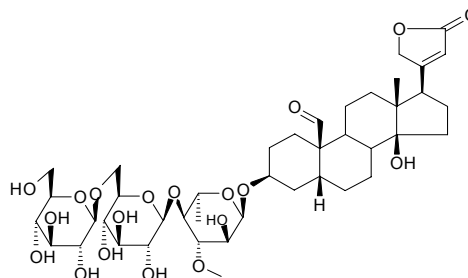
$C_{30}H_{46}O_8$ (534.70). mp 260°C. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

**21324 Theveside**

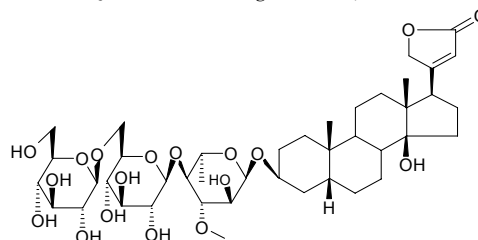
$C_{16}H_{22}O_{11}$ (390.35). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 27\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; HIV-1 IN inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6, 4187.

**21325 Thevetin A**

$C_{42}H_{64}O_{19}$ (872.97). mp 208~210°C. Pharm: Antiarrhythmic; cardiotoxic; toxin (vertebrates). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], AO DAO LA MU HAI MANG GUO *Cerbera odollam*. Ref: 6, 658.

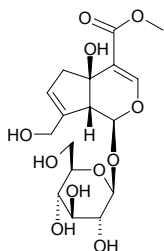
**21326 Thevetin B**

$C_{42}H_{66}O_{18}$ (858.98). mp 197~201°C. Pharm: Antiarrhythmic; cardiotoxic; toxin. Source: AO DAO LA MU HAI MANG GUO *Cerbera odollam*, HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], NIU XIN QIE ZI *Cerbera manghas*. Ref: 6, 658.

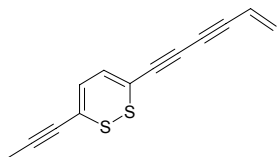


21327 Theviridoside

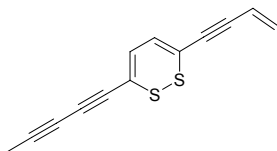
$C_{17}H_{24}O_{11}$ (404.37). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 27\mu\text{mol/L}$; DDDP inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Adriamycin, $IC_{50} = 6\mu\text{mol/L}$; HIV-1 IN inhibitor, $IC_{50} > 100\mu\text{mol/L}$, positive control Suramin, $IC_{50} = 2.4\mu\text{mol/L}$)^[4187]. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], WU SE MEI *Lantana camara*. **Ref:** 6, 234, 4187.

**21328 Thiarubrin A**

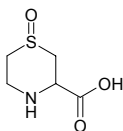
[63543-09-9] $C_{13}H_8S_2$ (228.32). **Pharm:** Antibacterial; antifungal (*Candida albicans*); antiviral; cytotoxic (*Bacillus coli*, *Bacillus subtilis* and nematode); light sensitive; nematocide; photosensitive agent. **Source:** TUN CAO *Ambrosia artemisiifolia*, family Asteraceae spp. **Ref:** 658, 900.

**21329 Thiarubrin B**

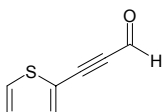
$C_{13}H_8S_2$ (228.34). **Pharm:** Antifungal. **Source:** family Asteraceae spp. **Ref:** 658.

**21330 1,4-Thiazane-3-carboxylic acid S-oxide**

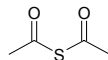
$C_5H_9NO_3S$ (163.20). mp 248~250°C (dec). **Source:** QUN DAI CAI *Undaria pinnatifida*. **Ref:** 6, 660.

**21331 3-(2-Thienyl) propargyl aldehyde**

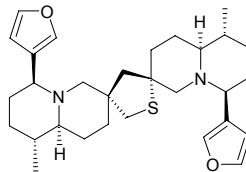
C_7H_4OS (136.17). **Source:** YANG SHI CAO *Achillea millefolium*. **Ref:** 6.

**21332 Thioacetic anhydride**

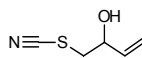
$C_4H_6O_2S$ (118.16). Colorless crystals, mp 141~145°C. **Source:** HUANG BAI HONG GU *Russula ochroleuca*. **Ref:** 2143.

**21333 Thiobinupharidine**

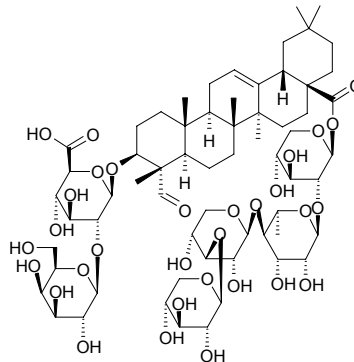
$C_{30}H_{42}N_2O_2S$ (494.75). **Pharm:** Antibacterial. **Source:** OU ZHOU PING PENG CAO *Nuphar luteum*. **Ref:** 658.

**21334 1-Thiocyanato-2-hydroxy-3-butene**

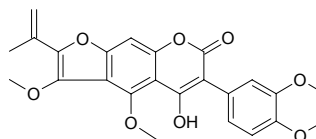
C_5H_7NOS (129.18). **Source:** DA QING YE *Isatis indigotica*. **Ref:** 2.

**21335 Thladioside H₁**

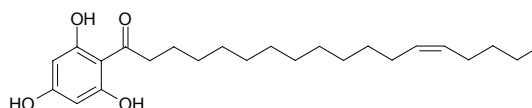
$C_{63}H_{98}O_{31}$ (1351.46). White powder, mp 220°C (dec). **Source:** XIN YE CHI BO *Thladiantha cordifolia*. **Ref:** 425.

**21336 Thonningine C**

5-Hydroxy-4,9-dimethoxy-6-(3,4-dimethoxyphenyl)-2-(1-methylethenyl)-7H-furan[3,2-g]chromen-7-one $C_{24}H_{22}O_8$ (438.44). Yellow granules (petrol), mp 199~200°C. **Source:** *Millettia thonningii*. **Ref:** 2326.

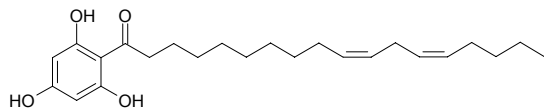
**21337 Thouvenol A**

$C_{24}H_{38}O_4$ (390.57). Colorless oil. **Pharm:** Cytotoxic (*in vitro*, A2780 ovarian cancer cell line, $IC_{50} = 11\mu\text{g/mL}$, marginal activity, control Actinomycin D, $IC_{50} = 1\sim 3\text{ng/mL}$). **Source:** *Protorhus thouvenotii* (dried fruit). **Ref:** 5006.

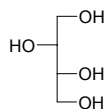


21338 Thouvenol B

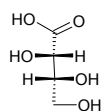
$C_{24}H_{36}O_4$ (388.55). Colorless oil. **Pharm:** Cytotoxic (*in vitro*, A2780 ovarian cancer cell line, $IC_{50} = 11\mu\text{g/mL}$, marginal activity, control Actinomycin D, $IC_{50} = 1\sim 3\text{ng/mL}$). **Source:** *Protorus thouvenotii* (dried fruit). **Ref:** 5006.

**21339 (D)-Threitol**

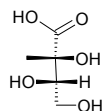
$C_4H_{10}O_4$ (122.12). Amorphous powder, $[\alpha]_D^{23} = -7^\circ$. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit), SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 3525, 4177.

**21340 (D)-Threonic acid**

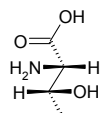
$C_4H_8O_5$ (136.11). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21341 (L)-Threonic acid**

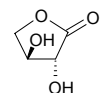
$C_4H_8O_5$ (136.11). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21342 Threonine**

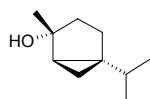
$C_4H_9NO_3$ (119.12). **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.27%~0.82%, mean content = 0.59%)^[5521], widely distributed in nature (a product of protein hydrolysates). **Ref:** 660, 5521.

**21343 Threono-1,4-lactone**

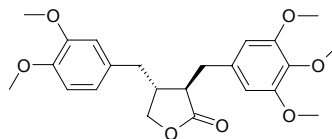
$C_4H_6O_4$ (118.09). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21344 Thujanol-4**

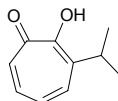
$C_{10}H_{18}O$ (154.25). *cis*-(+) mp 36.5~7.2°C, *trans*-(+) mp 60~61°C, bp 193~198°C. **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 6.

**21345 (-)-Thujaplicatin trimethyl ether**

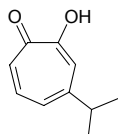
$C_{23}H_{28}O_7$ (416.48). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, $IC_{50} = 1.1\mu\text{mol/L}$; CYP2D6, $IC_{50} > 100\mu\text{mol/L}$; control Ketoconazole, CYP3A4, $IC_{50} = 0.72\mu\text{mol/L}$; control Quinidine, CYP2D6, $IC_{50} = 0.082\mu\text{mol/L}$). **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.000069%dw). **Ref:** 4797.

**21346 α-Thujaplicin**

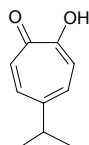
$C_{10}H_{12}O_2$ (164.21). mp 82°C. **Source:** SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6.

**21347 β-Thujaplicin**

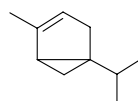
$C_{10}H_{12}O_2$ (164.21). mp 52.0~52.5°C. **Pharm:** Antifungal. **Source:** AI SHI BAI MU *Cupressus abramsiana*, BEI MEI XIANG BAI *Thuja plicata*, DA GUO BAI MU *Cupressus macrocarpa*, SA JIN TE BAI MU *Cupressus sargentii*, SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6, 658.

**21348 γ-Thujaplicin**

$C_{10}H_{12}O_2$ (164.21). **Pharm:** Antifungal. **Source:** AI SHI BAI MU *Cupressus abramsiana*, BEI MEI XIANG BAI *Thuja plicata*, DA GUO BAI MU *Cupressus macrocarpa*, SA JIN TE BAI MU *Cupressus sargentii*, SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6, 658.

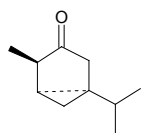
**21349 Thujene**

$C_{10}H_{16}$ (136.24). bp (+) 152.0~152.5°C, (-) 151°C. **Source:** JU PI *Citrus reticulata*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

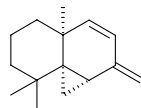


21350 1-Thujone

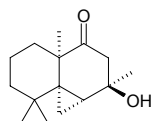
$C_{10}H_{16}O$ (152.24). **Pharm:** Anthelmintic; anti-stimulation; spasmogenic; LD (mus, ip) = 240mg/kg. **Source:** AI YE *Artemisia argyi*, BEI AI *Artemisia vulgaris*, BEI MEI YA BAI *Thuja occidentalis*, BEI YE JU *Chrysanthemum boreale*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], JU HAO *Tanacetum vulgare*, MU HAO *Artemisia japonica*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], YAN XIANG JU *Chrysanthemum lavandulifolium*, YANG SHI CAO *Achillea millefolium*, YE JU *Chrysanthemum indicum*, YIN CHEN HAO *Artemisia capillaris*, ZHONG YA KU HAO *Artemisia absinthium*. **Ref:** 2, 658, 660, 5501.

**21351 Thujopsadiene**

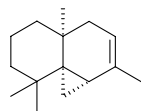
$C_{15}H_{22}$ (202.34). bp 115°C/10mmHg. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**21352 Thujopsan-7β-ol**

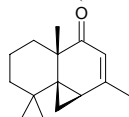
$C_{15}H_{24}O_2$ (236.36). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**21353 Thujopsene**

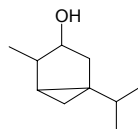
[470-40-6] $C_{15}H_{24}$ (204.36). bp 121~122°C/12mmHg. **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**21354 Thujopsenone**

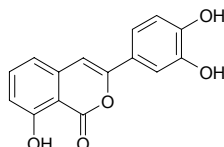
$C_{15}H_{22}O$ (218.34). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**21355 Thujylalcohol**

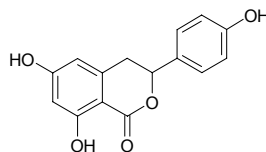
$C_{10}H_{16}O$ (152.24). mp (-) 66~67°C. **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**21356 Thunberginol A**

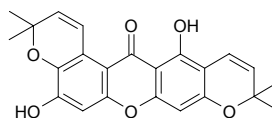
[147666-80-6] $C_{15}H_{10}O_5$ (270.24). Yellow rhombic crystals, mp 240°C (methanol-water). **Pharm:** Antiallergic; antibacterial (*Fusobacterium nucleatum*, MIC = 10mg/L; *Ristella melaninogenica*, MIC = 5mg/L). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 900.

**21357 Thunberginol C**

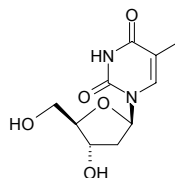
$C_{15}H_{12}O_5$ (272.26). **Pharm:** Antioxidant (DPPH scavenger, IC_{50} = (115.6±12.6)μg/mL; control Ascorbic acid, IC_{50} = (2.49±0.32)μg/mL; Caffeic acid, IC_{50} = (1.78±0.03)μg/mL; Chlorogenic acid, IC_{50} = (1.28±0.38)μg/mL). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**21358 Thwaitesixanthone**

$C_{23}H_{20}O_6$ (392.41). **Pharm:** Cytotoxic inactive (KB cancer cell lines; BC-1; NCI-H187). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0034%dw). **Ref:** 1619.

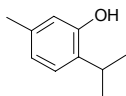
**21359 Thymidine**

Thymine-2-desoxyribose [50-89-5] $C_{10}H_{14}N_2O_5$ (242.23). Colorless acicular crystals, mp 184.0~186.5°C (methanol), $[\alpha]_D^{25}$ = +30.6° (water)^[5507]. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*, GAN SU BEI MU *Fritillaria przewalskii*, NAN FANG TU SI ZI *Cuscuta australis*, PING BEI MU *Fritillaria ussuriensis*, SHI LUO ZI *Anethum graveolens* (fruit), ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], *Tylotella* sp. **Ref:** 459, 569, 689, 4177, 5507.

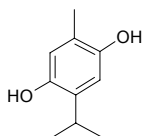


21360 Thymol

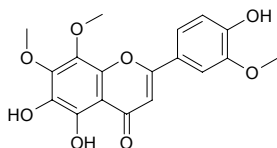
[89-83-8] C₁₀H₁₄O (150.22). mp 51.5°C, bp 211~212°C/745mmHg. **Pharm:** Antibacterial; anthelmintic; acaricide (1% solution, 30min, mortality = 100%; 0.03% solution, 24h, mortality = 100%); antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 0.39mg/mL; *Candida albicans* KCCM11282, MFC = 0.39mg/mL; *Candida utilis* KCCM11356, MFC = 0.39mg/mL; *Cryptococcus neoformans* KCCM0564, MFC = 0.39mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 0.19mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.09mg/mL; *Blastoschyzomyces capitatus* KCCM50270, MFC = 0.39mg/mL)^[4079]; antiseptic (tooth decay cavity); dispels phlegm (promotes movement of trachea cilium, benefits mucous secretion); free radical scavenger; LD₅₀ (rat, orl) = 980mg/kg. **Source:** A YU WEI *Trachyspermum ammi*, BAI LI XIANG *Thymus serpyllum*, CHAI HU *Bupleurum chinense*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], JU PI *Citrus reticulata*, SHE XIANG CAO *Thymus vulgaris*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*] (dried aerial parts: content scope of 10 origins = 0.06%~0.46%, mean content = 0.22%^[5508]), TU XIANG RU *Origanum vulgare*, XIANG QING LAN *Dracocephalum moldavicum*, CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*. **Ref:** 2, 4, 658, 4079, 5501, 5508.

**21361 Thymolhydroquinone**

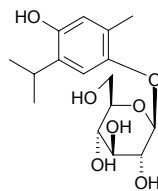
C₁₀H₁₄O₂ (166.22). mp 143°C, bp 290°C. **Source:** PEI LAN *Eupatorium fortunei*. **Ref:** 6.

**21362 Thymonin**

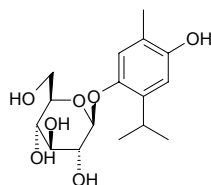
[76844-67-2] C₁₈H₁₆O₈ (360.33). **Pharm:** Aldose reductase inhibitor (rat eye lens, 10μmol/L InRt = 33%, 1μmol/L InRt = 16%; ox eye lens, 10μmol/L InRt = 46%, 1μmol/L InRt = 11%); sucrose inhibitor (in small intestine, 50μmol/L, InRt = 14%); maltase inhibitor (50μmol/L, InRt = 9%); antispasmodic; smooth muscle relaxant; antibacterial (*Staphylococcus aureus*, 62.5μg/mL); low toxic (mus, orl, 2g/kg, innocuity) **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 658, 1771, 1772, 1773, 1774.

**21363 Thymoquinol 2-O-β-glucopyranoside**

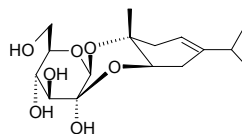
C₁₆H₂₄O₇ (328.37). **Source:** XU LI YA NIU ZHI *Origanum syriacum* (aerial parts). **Ref:** 5223.

**21364 Thymoquinol 5-O-β-glucopyranoside**

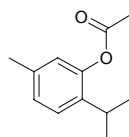
C₁₆H₂₄O₇ (328.37). **Source:** XU LI YA NIU ZHI *Origanum syriacum* (aerial parts). **Ref:** 5223.

**21365 Thymuside A**

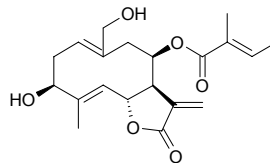
C₁₆H₂₆O₇ (330.38). Amorphous powder, [α]_D²² = +2° (c = 0.5, MeOH). **Source:** SHE XIANG CAO *Thymus vulgaris* (leaf). **Ref:** 3895.

**21366 Thymyl acetate**

C₁₂H₁₆O₂ (192.26). **Pharm:** Analgesic; antiseptic. **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 658.

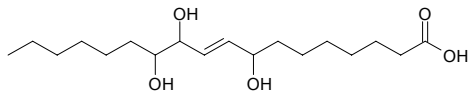
**21367 8β-Tigloyloxy-3β,14-dihydroxy-6βH,7αH-germacra-1(10)Z,AE, 11(13)-trien-6,12-olide**

C₂₀H₂₆O₆ (362.43). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00041%dw). **Ref:** 4762.

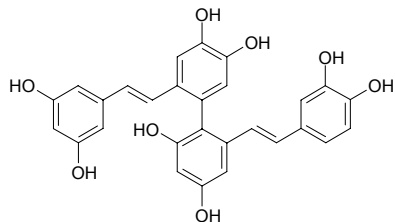


21368 Tianshic acid

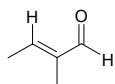
$C_{18}H_{34}O_5$ (330.47). White powder, mp 102~103°C. Source: SUO LUO ZI *Aesculus wilsonii*. Ref: 843.

**21369 Tibeticanol**

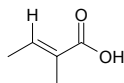
$C_{28}H_{22}O_8$ (486.48). Amorphous brown powders. Pharm: Antioxidant (superoxide anion scavenger, $IC_{50} = (1.33 \pm 0.01) \mu\text{mol/L}$, control (+)-Catechin, $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$). Source: MAO CI JIN JI ER *Caragana tibetica* (stem). Ref: 4514.

**21370 Tiglaldehyde**

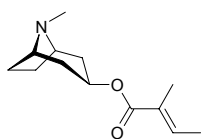
(*E*)-2-Methyl-2-butenal; Tiglic aldehyde; *trans*-Tiglaldehyde; (*E*)-2-Methylcrotonaldehyde; *trans*-2-Methyl-2-butenal; α -Methylcrotonaldehyde; (*E*)-2-Methylbut-2-en-1-al [497-03-0] C_5H_8O (84.12). bp 116.5~117.5°C/738mmHg. Source: XI XIANG CONG *Allium schoenoprasum*. Ref: 6.

**21371 Tiglic acid**

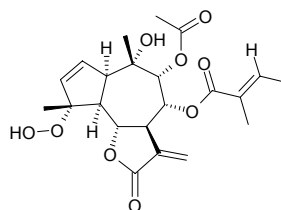
(*E*)-2-Methyl-2-butenic acid; *trans*-2-Methyl-2-butenic acid [80-59-1] $C_5H_8O_2$ (100.12). Source: YUAN DANG GUI *Angelica archangelica*, BA DOU *Croton tiglium*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], NAN HE SHI *Daucus carota*. Ref: 2, 660.

**21372 Tigloidine**

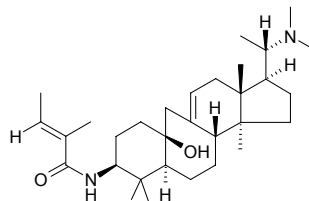
3 α -Tigloyloxytropine $C_{13}H_{21}NO_2$ (223.32). mp 181.5~183.0°C. Pharm: Anticholinergic; CNS depressant; used in treatment of muscle rigidity and Parkinson's disease. Source: SUAN JIANG *Physalis alkekengi*, GUA JIN DENG *Physalis alkekengi* var. *franchetii*, MAO MAN TUO LUO HUA *Datura innoxia*, YANG JIN HUA *Datura metel*. Ref: 6, 658, 1521.

**21373 8-O-Tigloyl-9-O-acetylanthemolide B**

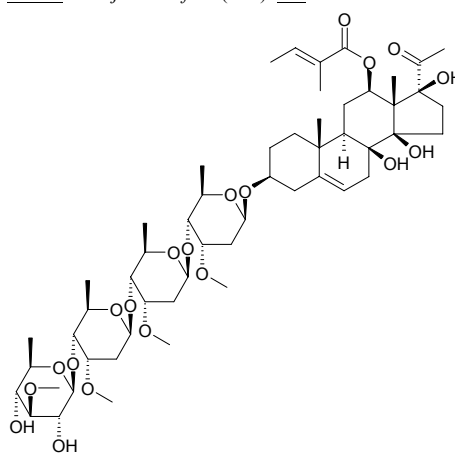
$C_{22}H_{28}O_9$ (436.46). Colorless gum. Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**21374 N-Tigloylbuxahyrcanine**

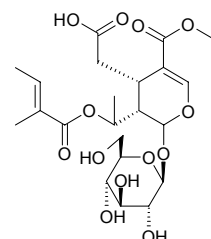
$C_{31}H_{52}N_2O_2$ (484.77). Colorless amorphous powder, mp 245.5°C, $[\alpha]_D^{29} = +62^\circ$ ($c = 0.096$, $CHCl_3$). Pharm: AChE inhibitor (*in vitro*, $IC_{50} = 443.6 \mu\text{mol/L}$; control Eserine, $IC_{50} = 0.041 \mu\text{mol/L}$); BChE inhibitor (*in vitro*, $IC_{50} = 31.2 \mu\text{mol/L}$; control Eserine, $IC_{50} = 0.0857 \mu\text{mol/L}$). Source: HE KAN I YA HUANG YANG *Buxus hyrcana* (leaf). Ref: 4694.

**21375 12-O-Tigloyldeacylmetaplexigenin**

$C_{54}H_{86}O_{20}$ (1055.28). Amorphous powder, $[\alpha]_D^{22} = +15.8^\circ$ ($c = 1.27$, MeOH). Source: *Araujia sericifera* (root). Ref: 4377.

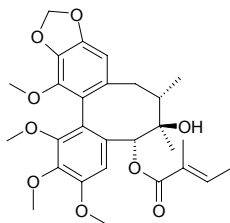
**21376 8-O-Tigloyldideroside**

$C_{22}H_{32}O_{13}$ (504.49). Amorphous powder, $[\alpha]_D^{25} = -78.8^\circ$ ($c = 1.5$, MeOH). Source: *Calycophyllum spruceanum*. Ref: 3439.



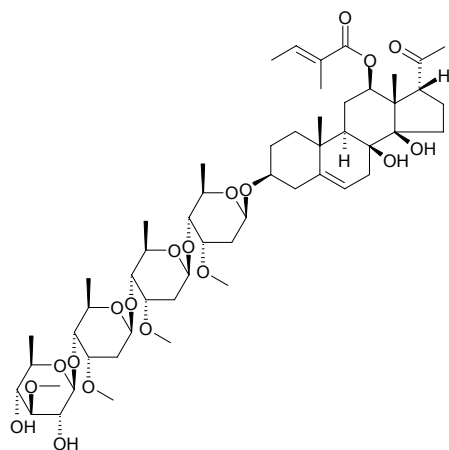
21377 Tigloylgomisin P

$C_{28}H_{34}O_9$ (514.58). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**21378 12-O-Tigloyllineolon**

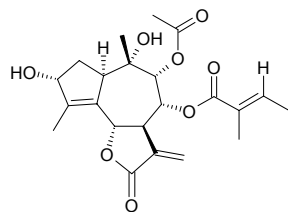
$C_{54}H_{86}O_{19}$ (1039.28). Amorphous powder, $[\alpha]_D^{22} = +2.1^\circ$ ($c = 0.66$, MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

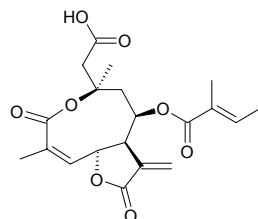
**21379 8 α -Tigloyloxyanthemolide C**

$C_{22}H_{28}O_8$ (420.46). Colorless gum, $[\alpha]_D^{25} = +57^\circ$ ($c = 0.11$, MeOH). Source:

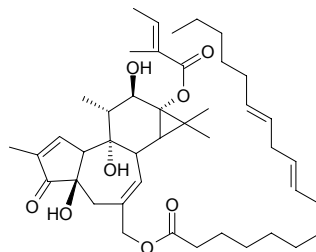
Anthemis carpatica (aerial parts). Ref: 3974.

**21380 8 β -Tigloyloxy-2,3-seco-6 β H,7 α H-helianga-4Z,11(13)-diene-3,10 β ; 6,12-diolid-2-oic acid**

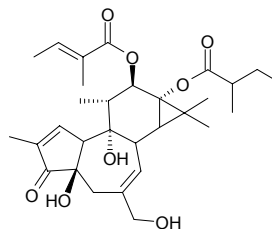
$C_{20}H_{24}O_8$ (392.41). Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00036%dw). Ref: 4762.

**21381 13-O-Tigloylphorbol-20-linoleate**

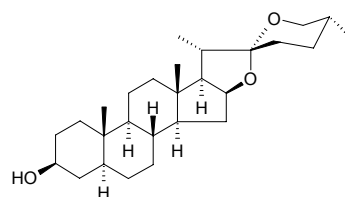
13-O-Tigloylphorbol-20-(9Z,12Z-octadecadienoate) $C_{43}H_{64}O_8$ (708.98). Oil, $[\alpha]_D = +98.3^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 7.81 \mu\text{g/mL}$, $CC_0 = 62.5 \mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9 \mu\text{g/mL}$, $CC_0 > 1000 \mu\text{g/mL}$); PKC activator (10ng/mL, activity rate = 14%). Source: BA DOU *Croton tiglium*. Ref: 3921.

**21382 12-O-Tigloylphorbol-13-(2-methylbutyrate)**

$C_{30}H_{42}O_8$ (530.66). Oil, $[\alpha]_D = +20.0^\circ$ ($c = 0.03$, $CHCl_3$). Pharm: Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor, $IC_{100} = 31.3 \mu\text{g/mL}$, $CC_0 = 62.5 \mu\text{g/mL}$, control DS8000, $IC_{100} = 3.9 \mu\text{g/mL}$, $CC_0 > 1000 \mu\text{g/mL}$); PKC activator (10ng/mL, activity rate = 10%). Source: BA DOU *Croton tiglium*. Ref: 3921.

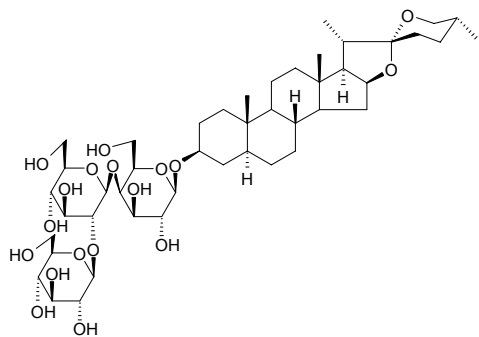
**21383 Tigogenin**

[77-60-1] $C_{27}H_{44}O_3$ (416.65). mp 201~203°C; mp 205~206°C. Pharm: Raw material for synthesis of hormonal corticosteroid drugs. Source: DAN SHEN *Salvia miltiorrhiza*, DONG YI HAO JIAN MA *Agave east-one*, DUAN YE LONG SHE LAN *Agave angustifolia*, FAN MA *Agave americana*, HU LU BA *Trigonella foenum-graecum*, JIAN MA *Agave sisalana*, JIAN YE TIE SHU YE *Cordyline stricta*, LONG KUI *Solanum nigrum*, NIAN YU XU *Smilax sieboldii*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, QIE ZI *Solanum melongena*, WAN XIANG YU *Polianthes tuberosa*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*, ZHANG LIU TOU *Costus speciosus*, *Agave lecheguilla*. Ref: 6, 10, 660, 2503.



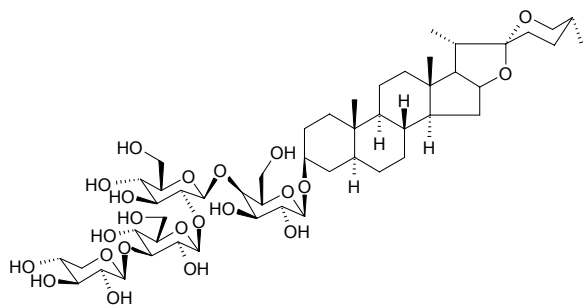
21384 Tigogenin-3-O- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₄₅H₇₄O₁₈ (903.08). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.



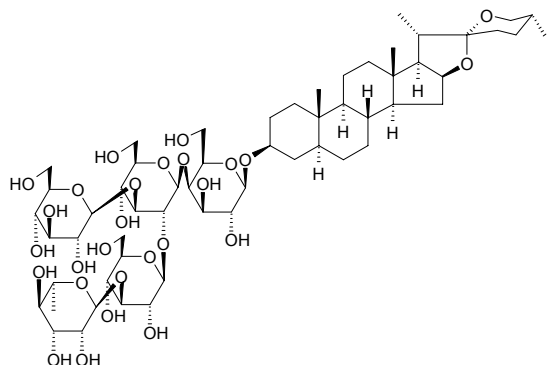
21385 Tigogenin 3-O- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-xylopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₅₀H₈₂O₂₂ (1035.2). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 3.5 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.017%fw). Ref: 3002.



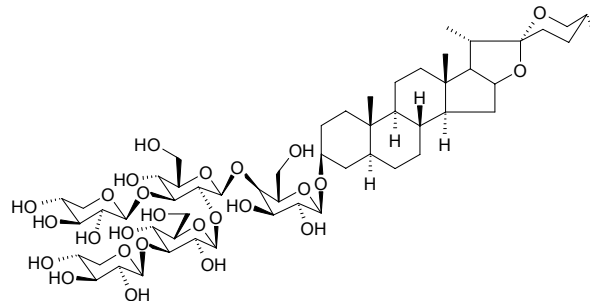
21386 Tigogenin-3-O- α -L-rhamnopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₅₇H₉₄O₂₇ (1211.37). Amorphous. Source: FAN MA *Agave americana*. Ref: 2259.



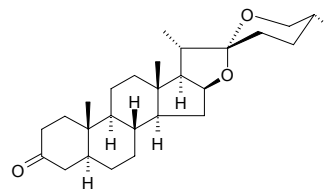
21387 Tigogenin 3-O- β -D-xylopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-xylopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-galactopyranoside

C₅₅H₉₀O₂₆ (1167.31). Pharm: Cytotoxic (*in vitro*, HeLa, IC₅₀ = 7.2 μ g/mL; control cis-Platin, IC₅₀ = 0.75 μ g/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0040%fw). Ref: 3002.



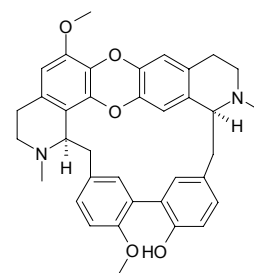
21388 Tigogenone

C₂₇H₄₂O₃ (414.63). Source: WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*]. Ref: 10.



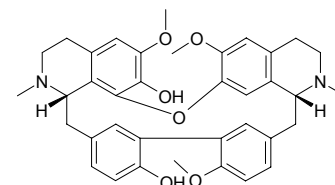
21389 Tiliacorine

C₃₆H₃₆N₂O₅ (576.70). Pharm: Antimalarial (*Plasmodium falciparum*). Source: family Menispermaceae spp. Ref: 658.



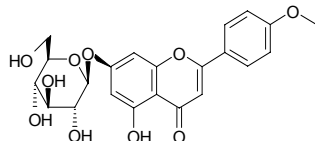
21390 Tiliageine

C₃₇H₄₀N₂O₆ (608.74). Pharm: Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, IC₅₀ = 175.1 μ g/mL, IC₉₀ = 370.7 μ g/mL); antimalarial (*Plasmodium falciparum* D6, LC₅₀ = 48.9 ng/mL, SI = 65; *Plasmodium falciparum* W2, LC₅₀ = 107.7 ng/mL, SI = 30); cytotoxic (KB, LC₅₀ = 3200 ng/mL). Source: *Guatteria boliviana* (stem cortex). Ref: 3976.

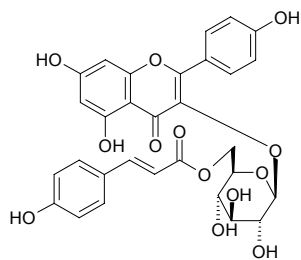


21391 Tilianin

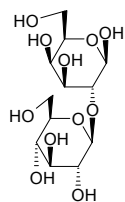
Acacetin-7-O-glucoside $C_{22}H_{22}O_{10}$ (446.41). Crystals (+2.5H₂O, MeOH), mp 259–260°C (anhyd.), $[\alpha]_D^{20} = -63.3^\circ$ (pyridine:EtOH = 7:3). **Source:** BAN BIAN SU *Elsholtzia ciliata*, DA LI HUA *Dahlia pinnata* [Syn. *Dahlia variabilis*], HUA DONG DUAN *Tilia japonica* (leaf), HUO XIANG *Agastache rugosus*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], XIANG RU *Elsholtzia splendens*, ZHI JIA HUA YE *Lawsonia inermis*. **Ref:** 2, 660, 1521.

**21392 Tiliroside**

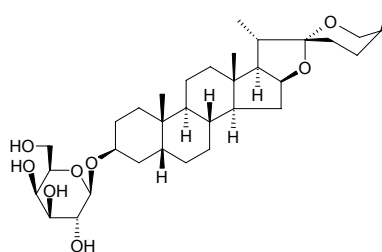
Potengriffoside A; Kaempferol-3-O-(6''-coumaroyl)-glucoside $C_{30}H_{26}O_{13}$ (594.53). Yellow needles, mp 246–248°C, $[\alpha]_D^{26} = -57^\circ$ ($c = 0.045$, MeOH); yellow powder, mp 214–215°C, $[\alpha]_D^{26} = -62^\circ$ ($c = 0.28$, MeOH). **Pharm:** Anti-inflammatory (inhibits mouse paw oedema induced by phospholipase A₂, ID₅₀ = 35.6mg/kg; inhibits mouse ear inflammation induced by TPA, ID₅₀ = 357mg/ear)^[4415]; antioxidant (inhibits lipid peroxidation: enzymatic, IC₅₀ = 12.6μmol/L; non-enzymatic, IC₅₀ = 28μmol/L)^[4415]; CYP3A4 inhibitor (hmn CYP3A4, enzyme activity was monitored by nifedipine oxidation, IC₅₀ = 0.7μmol/L)^[4778]; ACE inhibitor (IC₅₀ > 350μmol/L, control Lisinopril, IC₅₀ = 1nmol/L)^[5034]; NEP inhibitor (IC₅₀ = 250μmol/L, control Phosphoramidon, IC₅₀ = 9nmol/L)^[5034]; APN inhibitor inactive^[5034]; CYP3A4 inhibitor (hmn CYP3A4, enzyme activity was monitored by nifedipine oxidation, IC₅₀ = 0.7μmol/L)^[4778]. **Source:** CAO MEI *Fragaria ananassa* (fruit: yield = 0.00038%)^[4778], CHANG ROU MAO WEI LING CAI *Potentilla griffithii* var. *velutina*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], YI DA LI LA JU *Helichrysum italicum*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.176%)^[5535], *Tilia* spp. **Ref:** 6, 784, 1521, 2522, 4415, 4778, 5034, 5535.

**21393 Timobiose**

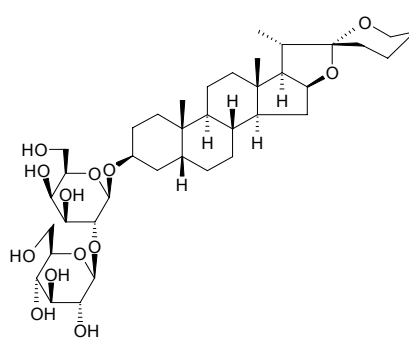
$C_{12}H_{22}O_{11}$ (342.30). mp 164–170°C. **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2.

**21394 Timosaponin A¹**

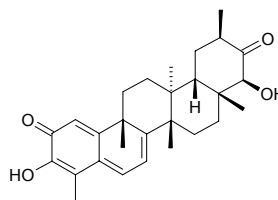
$C_{33}H_{54}O_8$ (578.79). **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2.

**21395 Timosaponin A₃**

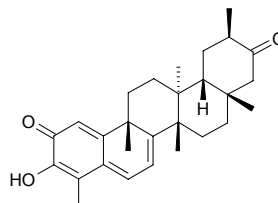
$C_{39}H_{64}O_{13}$ (740.94). mp 317–322°C (dec). **Source:** ZHI MU *Anemarrhena asphodeloides*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 6.

**21396 Tingenin B**

[50656-68-3] $C_{28}H_{36}O_4$ (436.60). **Pharm:** Antioxidant (DPPH scavenger, for 40μmol/L DPPH radical, SC₅₀ = 8.5μmol/L). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

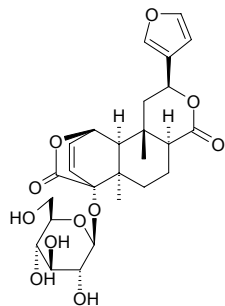
**21397 Tingenone**

[50802-21-6] $C_{28}H_{36}O_3$ (420.60). Crystals, mp 203–204°C. **Pharm:** Antitrypanosomal; germination inhibitor (seeds of haricot); inhibits biosynthesis of DNA, RNA and protein; antineoplastic; antioxidant (DPPH scavenger, for 40μmol/L DPPH radical, SC₅₀ = 13μmol/L)^[4378]; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated IL-1β production on hmn monocytes, mean IC₅₀ = 58nmol/L)^[4416]. **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*], JIA NA LI MEI DENG MU *Maytenus canariensis*, *Maytenus* sp., *Salacia* sp. **Ref:** 658, 1521, 4378, 4416.

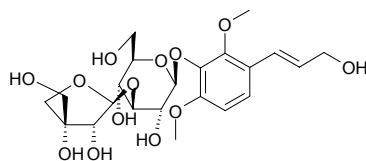


21398 Tinoside

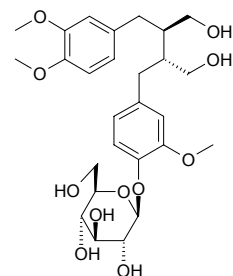
Palmitoside D C₂₆H₃₂O₁₁ (520.54). Source: QING NIU DAN *Tinospora sagittata*. Ref: 660.

**21399 Tinosinen**

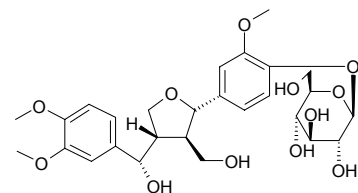
C₂₂H₃₂O₁₃ (504.49). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21400 Tinosposide A**

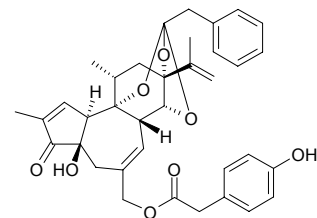
C₂₇H₃₈O₁₁ (538.60). Amorphous powder, $[\alpha]_D^{25} = -39^\circ$ ($c = 1.0$, MeOH). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21401 Tinosposide B**

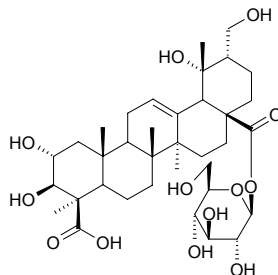
C₂₇H₃₈O₁₂ (552.58). Amorphous powder, $[\alpha]_D^{25} = -10^\circ$ ($c = 0.3$, MeOH). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21402 Tinyatoxin**

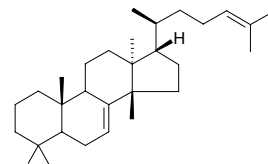
C₃₆H₃₈O₈ (598.70). Pharm: Toxin (causes inflammation of skin). Source: PO SEN DA JI *Euphorbia poisonii*. Ref: 658.

**21403 Tirlocularoside A**

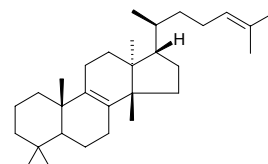
2 α ,3 β ,19 α ,30-Tetrahydroxyurs-12-en-24,28-dioic acid 28-O- β -D-glucopyranosyl ester C₃₆H₅₆O₁₃ (696.84). Amorphous solid, mp 187~189°C (dec), $[\alpha]_D^{25} = +12.12^\circ$ ($c = 0.198$, MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21404 Tirucalla-7,24-diene**

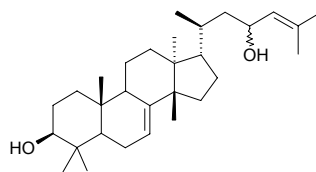
Eupha-7,24-diene [87827-68-7] C₃₀H₅₀ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21405 Tirucalla-8,24-diene**

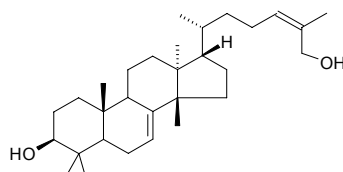
Eupha-8,24-diene C₃₀H₅₀ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21406 Tirucalla-7,24-diene-3 β ,23-diol**

C₃₀H₅₀O₂ (442.73). White powder, mp 80~83°C. Source: HAI NAN JIAN MU *Dysoxylum hainanense* (bark). Ref: 3987.

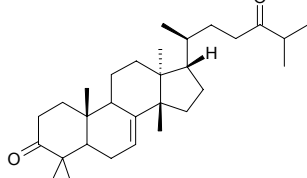
**21407 (24Z)-7,24-Tirucalladien-3 β ,26-diol**

(24Z)-7,24-Euphadien-3 β ,26-diol [6138-94-9] C₃₀H₅₀O₂ (442.73). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

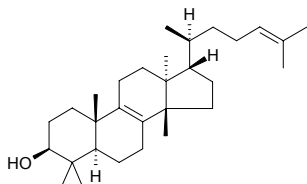


21408 Tirucall-7-en-3,24-dione

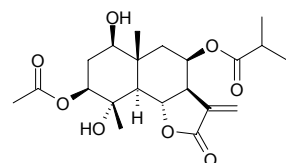
Eupha-7-en-3,24-dione C₃₀H₄₈O₂ (470.72). Amorphous powder, $[\alpha]_D^{25} = +5.93^\circ$ ($c = 0.3$, MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.

**21409 Tirucallol**

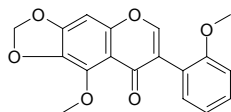
Kanzuol; 20-Epieuphol C₃₀H₅₀O (426.73). Source: GAN SUI *Euphorbia kansui*, RU XIANG *Boswellia carterii*. Ref: 660.

**21410 Tithofolinolide**

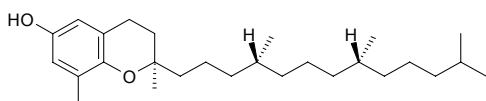
(1*R*,3*S*,4*S*)-3-Acetoxy-1,4-dihydroxy-8-isobutyloxyeudesm-11(13)-en-6,12-olide; Anticancer Sesquiterpene Lactone PMV70P691-037 C₂₁H₃₀O₈ (410.47). Colorless gel, $[\alpha]_D^{25} = -33.5^\circ$ ($c = 0.47$, MeOH). Pharm: Cytotoxic (antiproliferative, Col2 cells, IC₅₀ > 20 μg/mL)^[4622]; cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μg/mL, activity denotes percentage of cells differentiated = 37.4%)^[4622, 5038]; cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, 10 μg/mL, rel-InRt = 40.2%, control DMBA, rel-InRt = 100%)^[4622]. Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0021%dw). Ref: 4622, 5038.

**21411 Tlatancuayin**

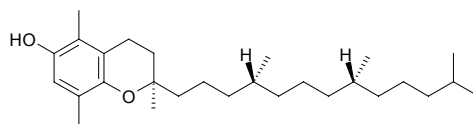
C₁₈H₁₄O₆ (326.31). Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**21412 δ-Tocopherol‡**

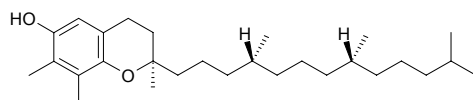
C₂₇H₄₆O₂ (402.67). Source: MU JIN ZI *Hibiscus syriacus*. Ref: 660. ‡Note: see compound 22560.

**21413 β-Tocopherol‡**

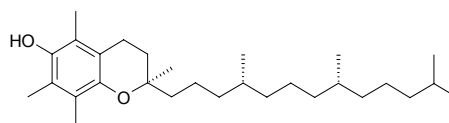
C₂₈H₄₈O₂ (416.69). Source: MU JIN ZI *Hibiscus syriacus*, ZUO JIANG CAO *Oxalis corniculata* [Syn. *Oxalis Repens*], YOU GAN LAN *Olea europaea*. Ref: 660. ‡Note: See compound 22559.

**21414 γ-Tocopherol‡**

C₂₈H₄₈O₂ (416.69). Source: MAN JING ZI *Vitex trifolia*. Ref: 660. ‡Note: See compound 22561.

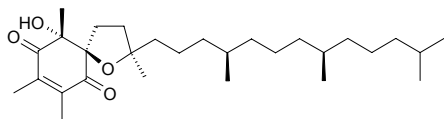
**21415 α-Tocopherol**

Vitamin E; 5,7,8-Trimethyltolcal; Covitol; Viteolin [59-02-9] C₂₉H₅₀O₂ (430.72). Brown oleaginous liquid, bp (+) 140°C/0.000001 mmHg, insoluble in water, easily soluble in ether, acetone, benzene, chloroform^[5507]. Pharm: Antioxidant (prevents oxidation of unsaturated fatty acid components to stabilize cell membranes); antioxidant (DPPH scavenger, EC₅₀ = 0.134 mmol/L^[4121], IC₅₀ = 0.48 mmol/L^[4211], SC₅₀ = 5.2 mmol/L^[4464], IC₅₀ = 20.7 μmol/L^[3452], IC₅₀ = 22.8 μmol/L^[5483], IC₅₀ = 20.1 μmol/L^[4787], EC₅₀ = 0.138 μg/mL^[3874], IC₅₀ = 0.15 mg/mL^[2587]); antioxidant (DPPH scavenger, DPPH 15 μmol/L, Vitamin E, 10 μmol/L, ScRt = 41.1%)^[3846]; antioxidant (DPPH radical scavenger, TLC bioautography method, 1 μg/spot)^[3813]; antioxidant (lipid peroxidation inhibitor, IC₅₀ = 5.3 μmol/L)^[3452]; antioxidant (lipid peroxidation inhibitor, IC₅₀ = 40.4 μg/mL)^[4506]; antioxidant (lipid peroxidation inhibitor, microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, 10 μmol/L, InRt = 18.2%)^[2570]; antioxidant (lipid peroxidation inhibitor, ADP/Fe²⁺-induced, IC₅₀ = 235 μmol/L^[3475], IC₅₀ = 250 μmol/L^[4710]); antioxidant (to determine inhibitory rates of malondialdehyde (MDA) (Lu and Liu, 1991), 10 μmol/L, InRt = 33.4%)^[3891]; antioxidant (superoxide anion scavenger, 100 μmol/L, InRt < 50%)^[3452]; antioxidant (0.5 mmol/L, peroxidation value = 14.7%)^[4508]; antioxidant (100 μmol/L, InRt of MDA = 81.5%; 10 μmol/L, InRt of MDA = 33.9%)^[5013]. Source: BO CAI *Spinacia oleracea*, CU LIU GUO *Hippophae rhamnoides* (fruit oil: content = 0.17%)^[5508], HONG HUA *Carthamus tinctorius* (flower oil: content scope of 4 origins = 0.0718%~0.1051%, mean content = 0.0865%)^[5508], LUO HUA SHENG *Arachis hypogaea*, MAO JIAN QIU LUO *Lychnis coronaria*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*, XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], YE ZI RANG *Cocos nucifera*, occurs in many plants (in many vegetable oils). Ref: 2, 6, 658, 660, 1521, 2189, 2570, 2587, 3452, 3475, 3813, 3846, 3874, 3891, 4121, 4211, 4464, 4506, 4508, 4710, 4787, 5013, 5483, 5507, 5508.

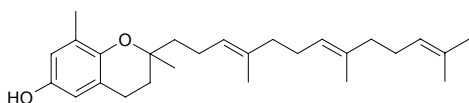


21416 (-)- α -Tocospirone

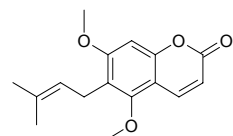
$C_{29}H_{50}O_4$ (462.72). Colorless oil, $[\alpha]_D^{21} = -50.8^\circ$ ($c = 0.045$, $CHCl_3$). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.

**21417 δ -Tocotrienol**

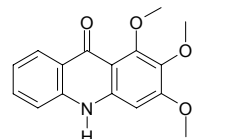
$C_{27}H_{40}O_2$ (396.62). Pharm: Antioxidant (DPPH scavenger, $EC_{50} = 0.160\mu g/mL$, control BHA, $EC_{50} = 0.136\mu g/mL$, Vitamin E, $EC_{50} = 0.138\mu g/mL$). Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**21418 Toddaculine**

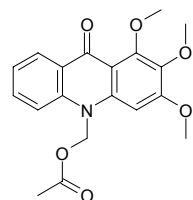
$C_{16}H_{18}O_4$ (274.32). mp $95^\circ C$. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**21419 Toddaliopsin A**

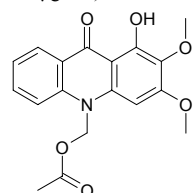
1,2,3-Trimethoxyacridone $C_{16}H_{15}NO_4$ (285.30). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay, $IC_{50} = 27.3\mu g/mL$). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21420 Toddaliopsin B**

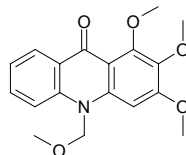
1,2,3-Trimethoxy-10-acetoxymethylacridone $C_{19}H_{19}NO_6$ (357.37). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay, $IC_{50} = 48.3\mu g/mL$). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21421 Toddaliopsin C**

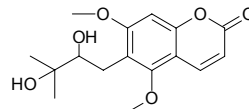
1-Hydroxy-2,3-dimethoxy-10-acetoxymethylacridone $C_{18}H_{17}NO_6$ (343.34). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay, $IC_{50} = 4.21\mu g/mL$). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21422 Toddaliopsin D**

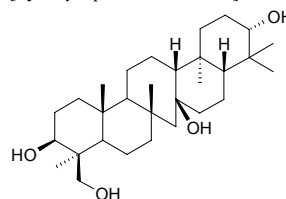
1-2,3-Trimethoxy-10-methoxymethylacridone $C_{18}H_{19}NO_5$ (329.36). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay, $IC_{50} = 79.1\mu g/mL$). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21423 Toddalolactone**

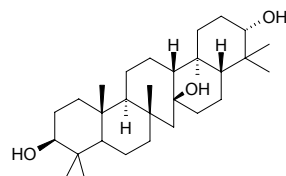
$C_{16}H_{20}O_6$ (308.33). mp $132^\circ C$. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**21424 Tohogeninol**

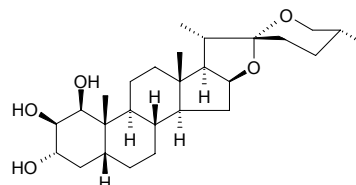
Serratetetrol $C_{30}H_{52}O_4$ (476.75). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 660.

**21425 Tohogenol**

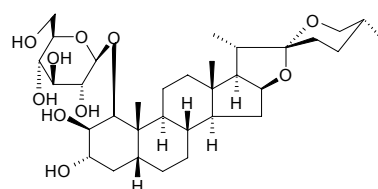
$C_{30}H_{52}O_3$ (460.75). mp $242\text{--}244^\circ C$. Source: GUO JIANG LONG *Lycopodium complanatum*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

**21426 Tokorogenin**

$C_{27}H_{44}O_5$ (448.65). mp $266\text{--}268^\circ C$. Source: SHAN BI XIE *Dioscorea tokoro*, XI BING SHU YU *Dioscorea tenuipes*. Ref: 6, 660, 1521.

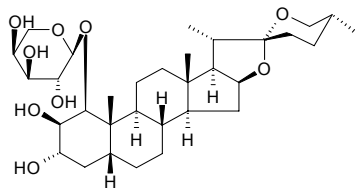
**21427 Tokorogenin-L-O- β -D-glucopyranoside**

$C_{33}H_{54}O_{10}$ (610.79). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

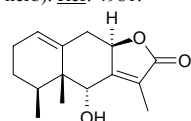


21428 Tokoronin

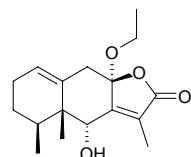
$C_{33}H_{54}O_9$ (594.79). mp 270~274°C (dec). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

**21429 Toluccanolide A**

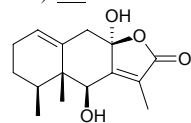
$C_{15}H_{20}O_3$ (248.32). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21430 Toluccanolide B**

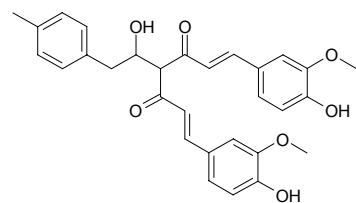
$C_{17}H_{24}O_4$ (292.38). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21431 Toluccanolide C**

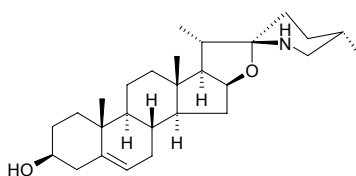
$C_{15}H_{20}O_4$ (248.32). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21432 p-Tolyl-methyl carbinol diferuloyl methane**

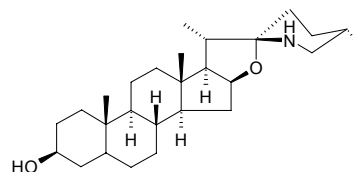
$C_{30}H_{30}O_7$ (502.57). Source: YU JIN *Curcuma aromatica*. Ref: 6.

**21433 Tomatidenol**

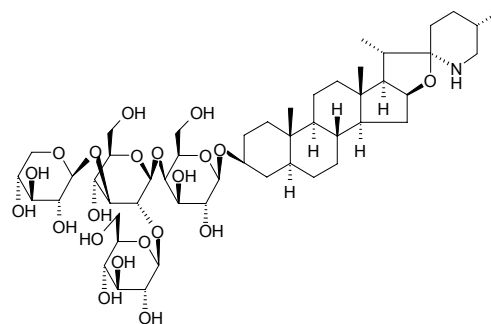
[546-40-7] $C_{27}H_{43}NO_2$ (413.65). mp 235~238°C, 206°C. Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 660.

**21434 Tomatidine**

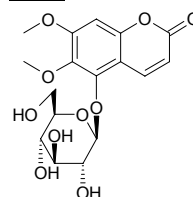
$C_{27}H_{45}NO_2$ (415.66). Pharm: Antifungal; detumescent; cholinesterase inhibitor; dermatitis suppressant (used in treatment of dermatitis). Source: FAN QIE *Lycopersicon esculentum*, AI QIE *Solanum demissum*. Ref: 658.

**21435 Tomatine**

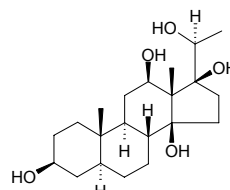
Lycopersicin; Lycopersidin; Tomatin; α -Tomatine [17406-45-0] $C_{50}H_{83}NO_{21}$ (1034.21). mp 263~268°C, $[\alpha]_D^{20} = -18^\circ$ ($c = 0.55$, pyridine), soluble in MeOH, EtOH, dioxane, glycol, insoluble in water, ether, petroleum ether^[5507]. Pharm: Antineoplastic (rat lymphatic sarcoma, ip); cytotoxic (MCF7 cells, $IC_{50} = 15\mu\text{mol/L}$, cytotoxicity of compounds was measured using the WST-8 proliferation reagent, see M. Ishiyama, et al., *Talanta*, 1999, 44, 1299)^[4317]; antihypertensive (rat, iv, 0.5~2.0mg/kg, action lasts short time); antifungal (dermatophyte, *Trichophyton mentagrophytes*, *Microsporum audouini* and *Aspergillus niger*, CIC = 0.1mg/mL, *Candida albicans*, CIC = 0.1mg/mL); antihistamine (*in vitro*); anti-inflammatory (rat, swollen foot model caused by carrageenan, im 1.0~10mg/kg or orl 15~30mg/kg); cardiotoxic (frog heart); LD_{50} (mus, iv) = 18mg/kg. Source: FAN QIE *Lycopersicon esculentum* (fruit: yield = 0.0032%fw). Ref: 4, 658, 4317, 5507.

**21436 Tomenin**

5-Hydroxy-6,7-dimethoxy-coumarin-5-O-glucoside $C_{17}H_{20}O_{10}$ (384.34). Source: SHAN YING TAO *Prunus tomentosa*. Ref: 6.

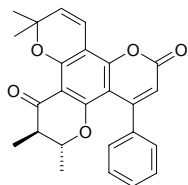
**21437 Tomentogenin**

$C_{21}H_{36}O_5$ (368.52). mp 256.5~259.5°C. Source: XU CHANG QING *Cynanchum paniculatum*. Ref: 6.

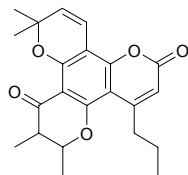


21438 Tomentolide A

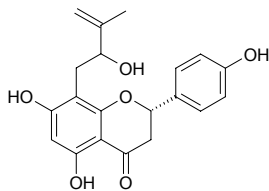
$C_{25}H_{22}O_5$ (402.45). mp 201~205°C. **Pharm:** Anti-inflammatory (rat, swollen foot model caused by carrageenan, 40mg/kg ip, InRt = 39.2%). **Source:** RONG MAO HU TONG *Calophyllum tomentosum*. **Ref:** 661.

**21439 Tomentolide B**

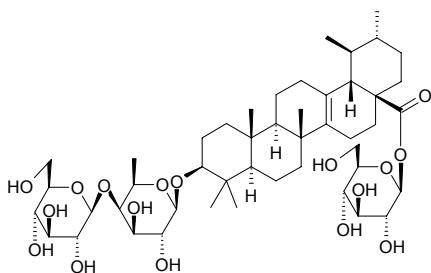
$C_{22}H_{24}O_5$ (368.43). mp 158~160°C. **Pharm:** Anti-inflammatory (rat, swollen foot model caused by carrageenan, 40mg/kg ip, InRt = 24.5%). **Source:** RONG MAO HU TONG *Calophyllum tomentosum*. **Ref:** 661.

**21440 Tomentosanol D**

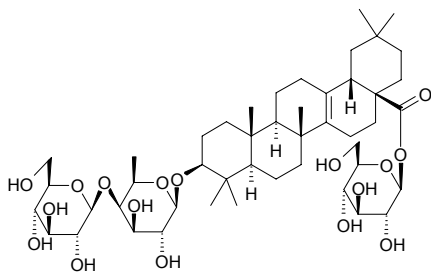
$C_{20}H_{20}O_6$ (356.38). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor, $IC_{50} = 9.8\mu\text{g/mL}$); cytotoxic (mouse mammary organ culture assay, 68% at $10\mu\text{g/mL}$). **Source:** ZHEN YE XUE TONG *Macaranga conifera*. **Ref:** 5038.

**21441 Tomentoside A**

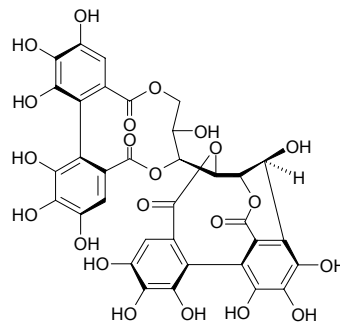
$C_{47}H_{76}O_{17}$ (913.12). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**21442 Tomentoside B**

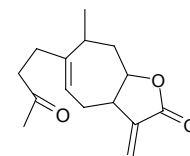
$C_{47}H_{76}O_{17}$ (913.12). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**21443 Tomentosin**

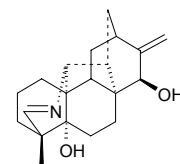
$C_{34}H_{24}O_{22}$ (784.56). Brown amorphous powder; easily soluble in MeOH and Me_2CO . **Source:** TAO JIN NIANG *Rhodomyrtus tomentosa*, JIN FEI CAO *Inula japonica*. **Ref:** 429, 660.

**21444 Tomentosin‡**

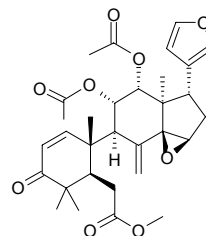
Xanthalongin $C_{15}H_{20}O_3$ (248.32). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 660.

**21445 Tongolinine**

$C_{20}H_{27}NO_2$ (313.44). Colorless needles. **Source:** QIN LING CUI QUE HUA *Delphinium giraldii*. **Ref:** 2504.

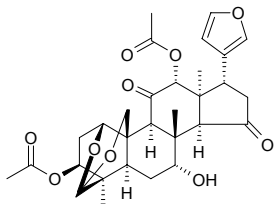
**21446 Toonacilin**

$C_{31}H_{38}O_9$ (554.65). Acicular crystals (methanol), mp 118~119°C, $[\alpha]_D^{20} = +69^\circ$ ($c = 1$, chloroform). **Pharm:** Insect antifeedant (*Epilachna varivestis*). **Source:** HONG CHUN *Toona ciliata*. **Ref:** 658.

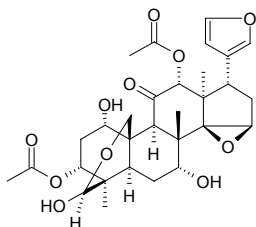


21447 Toosendanal

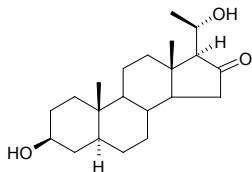
$C_{30}H_{36}O_{10}$ (556.62). Colorless needles, mp 272.0~273.5°C, $[\alpha]_D^{18} = -32.7^\circ$ ($c = 0.1$, MeOH). **Pharm:** Cytotoxic (inhibits KB cell's growth, $IC_{50} > 10\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.066\mu\text{g/mL}$). **Source:** CHUAN LIAN PI *Melia toosendan*. **Ref:** 2314.

**21448 Toosendanin**

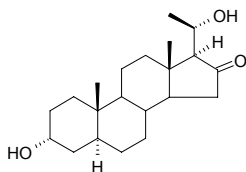
Azedarachin; Chuanliansu; 12- α -Acetoxymoorastatin $C_{30}H_{38}O_{11}$ (574.63). mp 178~180°C, $[\alpha]_D^{28} = -13.1^\circ$ (acetone), easily soluble in methanol, ethanol, acetone, slightly soluble in benzene, chloroform, almost insoluble in water.^[5507] **Pharm:** Cytotoxic (inhibits KB cell's growth, $IC_{50} = 3.82\mu\text{g/mL}$, control Adriamycin, $IC_{50} = 0.066\mu\text{g/mL}$)^[2314]; anthelmintic (roundworm, slow and persistent); neuromuscular blocker (mus, *in vitro*); LD_{50} (mus, ip) = 13.8mg/kg, (mus, iv) = 14.6mg/kg, (mus, sc) = 14.3mg/kg, (mus, orl) = 244.2mg/kg, (rat, sc) = 9.8mg/kg, (rbt, iv) = 4.2mg/kg. **Source:** CHUAN LIAN ZI *Melia toosendan*, CHUN BAI PI *Toona sinensis*, KU LIAN PI *Melia azedarach* (dried stem or root cortex: content = 0.4%), CHUAN LIAN PI *Melia toosendan* (dried stem or root cortex: content = 0.4%). **Ref:** 4, 660, 2314, 5501, 5507.

**21449 Toosendansterol A**

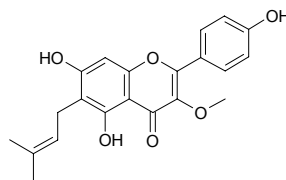
$C_{21}H_{34}O_3$ (334.50). **Source:** KU LIAN YE *Melia azedarach*. **Ref:** 660.

**21450 Toosendansterol B**

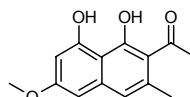
$C_{21}H_{34}O_3$ (334.50). **Source:** KU LIAN YE *Melia azedarach*. **Ref:** 660.

**21451 Topazolin**

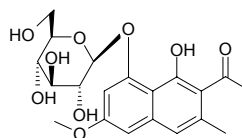
4',5,7-Trihydroxy-3-methoxy-6-prenylflavone $C_{21}H_{20}O_6$ (368.39). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*. **Ref:** 660.

**21452 Torachryson**

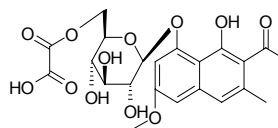
$C_{14}H_{14}O_4$ (246.27). **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2.

**21453 Torachryson-8-O- β -D-glucoside**

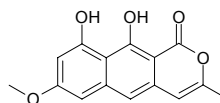
$C_{20}H_{24}O_9$ (408.41). **Pharm:** Antioxidant (DPPH scavenger, $IC_{50} = 18.5\mu\text{g/mL}$; control Ascorbic acid, $IC_{50} = 3.9\mu\text{g/mL}$)^[4711]. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.067%dw)^[4711], DA HUANG *Rheum officinale*, HU ZHANG *Polygonum cuspidatum*. **Ref:** 2, 4711.

**21454 Torachryson-8-O- β -D-(6'-oxayl)-glucoside**

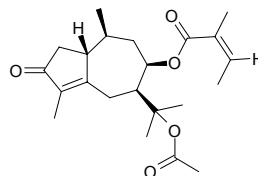
$C_{22}H_{24}O_{12}$ (480.43). **Source:** DA HUANG *Rheum officinale*. **Ref:** 2.

**21455 Toralactone**

$C_{15}H_{12}O_5$ (272.26). mp 253~254°C. **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2, 6.

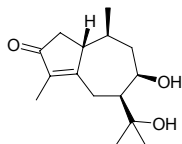
**21456 Torilin**

[13018-10-5] $C_{22}H_{32}O_5$ (376.50). White needles, mp 76~77°C, $[\alpha]_D^{20} = -38.92^\circ$ ($c = 10.25$, MeOH); mp 77~78°C, $[\alpha]_D^{14} = -45.3^\circ$ ($c = 0.085$, EtOH). **Pharm:** 5 α -Reductase inhibitor ($IC_{50} = (31.7\pm 4.2)\mu\text{mol/L}$; control Finasteride, $IC_{50} = (0.38\pm 0.06)\mu\text{mol/L}$; α -Linolenic acid, $IC_{50} = (160.3\pm 24.6)\mu\text{mol/L}$)^[5398]. **Source:** HUA NAN HE SHI *Torilis japonica*. **Ref:** 6, 5398.

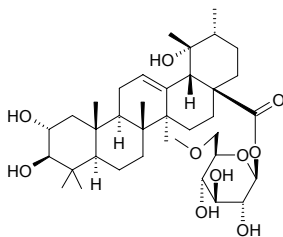


21457 Torilolone

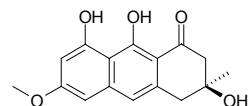
$C_{15}H_{24}O_3$ (252.36). mp 136~137°C. Source: HUA NAN HE SHI *Torilis japonica*. Ref: 6.

**21458 Tormentic acid-6-methoxy β -D-glucopyranosyl ester**

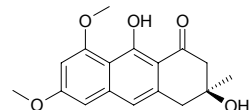
$C_{37}H_{60}O_{10}$ (664.88). Source: JIN YING ZI *Rosa laevigata*. Ref: 660.

**21459 Torosachryson**

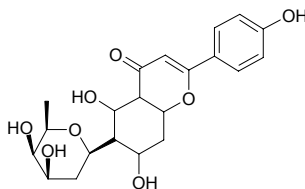
$C_{16}H_{16}O_5$ (288.30). Source: DUN YE JUE MING *Cassia obtusifolia*, *Cortinarius* spp. Ref: 660, 3799.

**21460 Torosachryson 8-O-methyl ether**

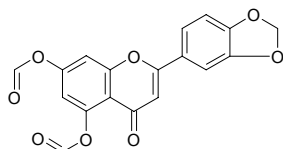
$C_{17}H_{18}O_5$ (302.33). Source: *Cortinarius* spp. Ref: 3799.

**21461 Torosaflavone A**

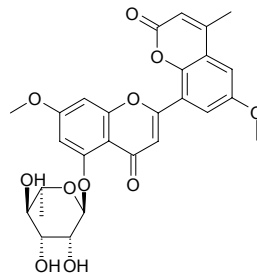
$C_{21}H_{26}O_8$ (406.44). Source: ER RUI HE LIAN DOU *Driedmaria diandra* [Syn. *Driedmaria cordata* ssp. *diandra*] (whole herb: yield = 0.00016%dw). Ref: 4758.

**21462 Torreyaflavone**

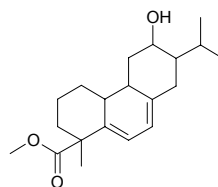
$C_{18}H_{10}O_8$ (354.28). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21463 Torreyaflavonoid**

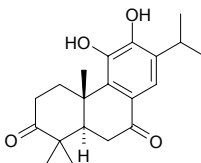
$C_{27}H_{26}O_{11}$ (526.50). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21464 Torreyagrandate**

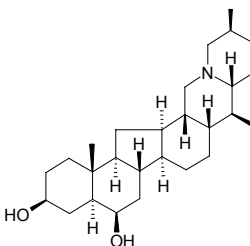
$C_{20}H_{30}O_3$ (318.46). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21465 Torreayunnin**

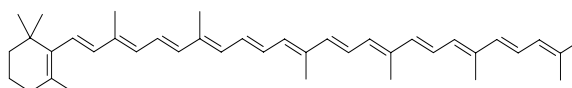
$C_{20}H_{26}O_4$ (330.43). Pale yellow needles (from acetone), mp 232°C, $[\alpha]_D^{19.8} = +87.09^\circ$ ($c = 0.24$, MeOH). Source: YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.000044%dw). Ref: 4707.

**21466 Tortifoline**

$C_{27}H_{45}NO_2$ (415.67). Source: XI BEI MU *Fritillaria imperialis* (bulb). Ref: 4217.

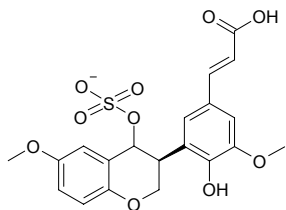
**21467 Torulene**

$C_{40}H_{54}$ (534.87). Source: occurs in many fungi. Ref: 658.

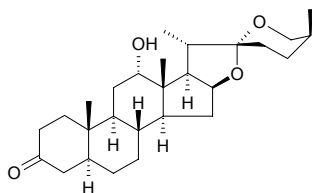


21468 Torvanol A

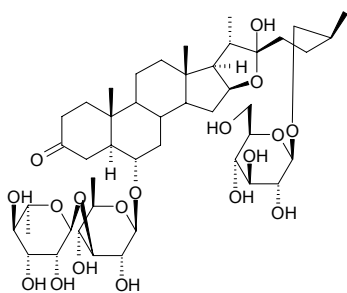
$C_{20}H_{19}O_{10}S^-$ (451.43). Amorphous powder, mp > 300°C, $[\alpha]_D^{29} = -50^\circ$ ($c = 0.280$, H₂O). Source: SHUI QIE *Solanum torvum*. Ref: 1999.

**21469 Torvogenin**

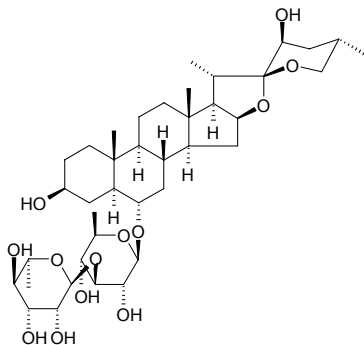
Torvogenin $C_{27}H_{42}O_4$ (430.63). Source: SHUI QIE *Solanum torvum*. Ref: 6.

**21470 Torvoside H**

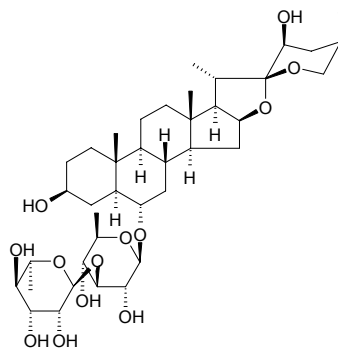
(25*S*)-26-*O*-β-*D*-Glucopyranosyl-6α-26-dihydroxy-5α-spirosten-3-one 6-*O*-[α-*L*-rhamnopyranosyl-(1→3)-β-*D*-quinovopyranoside] $C_{45}H_{74}O_{18}$ (903.08). Amorphous powder, mp 170–172°, $[\alpha]_D^{29} = -58.15^\circ$ ($c = 0.114$, MeOH). Source: SHUI QIE *Solanum torvum*. Ref: 1999.

**21471 Torvoside J**

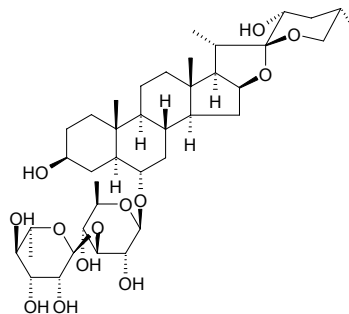
6-*O*-α-*L*-Ghamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl-(22*R*,23*S*,25*S*)-3β,6α,23-trihydroxy-5α-spirostan-3-one $C_{39}H_{64}O_{13}$ (740.94). Amorphous powder, $[\alpha]_D = -53.1^\circ$ ($c = 0.4$, MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21472 Torvoside K**

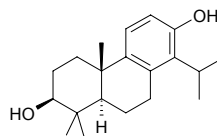
6-*O*-α-*L*-Ghamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl (22*R*,23*S*,25*R*)-3β,6α,23-trihydroxy-5α-spirostan-3-one $C_{39}H_{64}O_{13}$ (740.94). Amorphous powder, $[\alpha]_D = -59.3^\circ$ ($c = 0.4$, MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21473 Torvoside L**

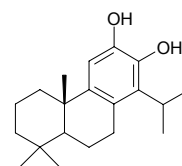
6-*O*-α-*L*-Rhamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl (22*R*,23*R*,25*S*)-3β,6α,23-trihydroxy-5α-spirostan-3-one $C_{39}H_{64}O_{13}$ (740.94). Amorphous powder, $[\alpha]_D = -3.8^\circ$ ($c = 0.4$, MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21474 Totaradiol**

$C_{20}H_{30}O_2$ (302.46). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 660.

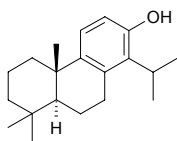
**21475 (+)-8,11,13-Totaratriene-12,13-diol**

$C_{20}H_{30}O_2$ (302.46). Orange crystalline solid, $[\alpha]_D^{26.5} = +95.0^\circ$ ($c = 0.842$, CHCl₃). Pharm: Antiplasmodial (*in vitro Plasmodium falciparum* K1, IC₅₀ = (0.83±0.07)μg/mL, Chloroquine IC₅₀ = (0.18±0.01)μg/mL; D10, IC₅₀ = (0.76±0.09)μg/mL, Chloroquine IC₅₀ = (0.012±0.001)μg/mL); cytotoxic (*in vitro* Chinese hamster ovarian CHO cells, IC₅₀ = (51.45±7.76)μg/mL; control Daunorubicin IC₅₀ = (1.53±0.15)μg/mL; HepG2 IC₅₀ = (59.01±5.76)μg/mL, Daunorubicin IC₅₀ = (1.46±0.20)μg/mL). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5438.

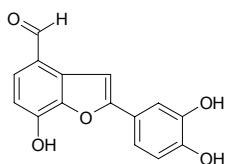


21476 Totarol

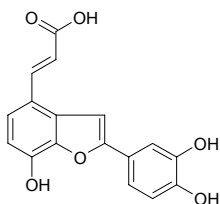
$C_{20}H_{30}O$ (286.46). mp 132°C. Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6.

**21477 Tournefolal**

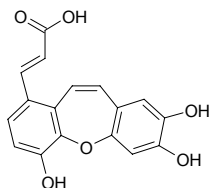
7-Hydroxy-2-(3,4-dihydroxyphenyl)benzofuran-4-al $C_{15}H_{10}O_5$ (270.24). Pale yellow crystals (ethanol), mp 210–212°C. Pharm: Antioxidant (*in vitro*, Cu^{2+} -induced LDL peroxidation assay, $IC_{50} = 4.3\mu mol/L$; control Probuco, $IC_{50} = 4.7\mu mol/L$). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00013%). Ref: 4628.

**21478 Tournefolic acid A**

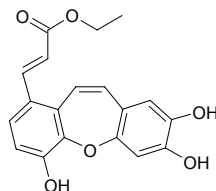
7-Hydroxy-2-(3,4-dihydroxyphenyl)-4-(1*E*-propenoyl-3-oic acid)benzofuran $C_{17}H_{12}O_6$ (312.28). Yellow crystals (EtOH), mp 197–198°C. Pharm: Antioxidant (*in vitro*, Cu^{2+} -induced LDL peroxidation assay, $IC_{50} = 4.81\mu mol/L$; control Probuco, $IC_{50} = 4.7\mu mol/L$). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00011%). Ref: 4628.

**21479 Tournefolic acid B**

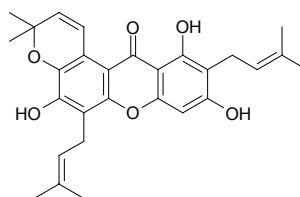
3-(4,7,8-Trihydroxydibenzo-[*b,f*]oxepin-1-yl)acrylic acid $C_{17}H_{12}O_6$ (312.28). Yellow crystals (EtOH), mp 242–245°C. Pharm: Antioxidant (*in vitro*, Cu^{2+} -induced LDL peroxidation assay, $IC_{50} = 2.32\mu mol/L$; control Probuco, $IC_{50} = 4.7\mu mol/L$). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00063%). Ref: 4628.

**21480 Tournefolic acid B ethyl ester**

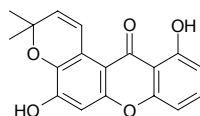
$C_{19}H_{16}O_6$ (340.34). Yellow crystals (EtOH), mp 225–227°C. Pharm: Antioxidant (*in vitro*, Cu^{2+} -induced LDL peroxidation assay, $IC_{50} = 0.51\mu mol/L$; control Probuco, $IC_{50} = 4.7\mu mol/L$). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00075%). Ref: 4628.

**21481 Tovophyllin A**

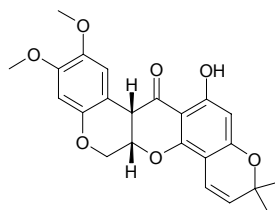
$C_{28}H_{30}O_6$ (462.55). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 3066, 5319.

**21482 Tovoxanthone**

$C_{18}H_{14}O_5$ (310.31). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21483 α -Toxicarol**

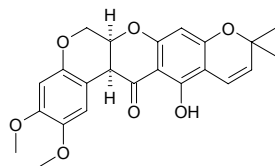
[82-09-7] $C_{23}H_{22}O_7$ (410.43). Yellowish solid, mp 98–102°C; mp (–) 125–127°C, (\pm) 219–223°C. Pharm: Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, $IC_{50} > 47\mu mol/L$; control Sulforaphane, $IC_{50} = 11\mu mol/L$)^[4718]; cytotoxic (mouse mammary organ culture assay, 80% at 10 $\mu g/mL$)^[5038]; nematocide (*in vitro*, 0.1mg/mL, larva *Toxocara canis*, after 6h cultivation, RM = 4h, after 24h, RM = 0); pesticide; anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100 mol ratio/32pmol TPA, EBV-EA positive cells = 71.9% viability, positive control β -Carotene, EBV-EA positive cells = 82.7% viability)^[4982]. Source: DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.023%dw)^[4718], HUI YE GEN *Tephrosia purpurea*, MAO YU TENG *Derris elliptica*, YU TENG *Derris trifoliata*, YU TENG *Derris trifoliata* (stem). Ref: 6, 900, 4718, 4982, 5038.



21484 β -Toxicarol

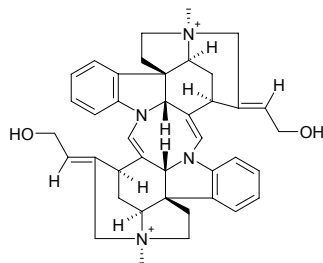
$C_{23}H_{22}O_7$ (410.43). mp (\pm) 169~170°C. Source: YU TENG *Derris trifoliata*.

Ref: 6.

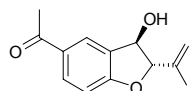
**21485 Toxiferine I**

$C_{40}H_{46}N_4O_2^{2+}$ (614.84). Dichloride: $C_{40}H_{46}Cl_2N_4O_2$ crystals, $[\alpha]_D^{22} = -546^\circ$ ($c = 0.30$); di-bitter acid salt: $C_{52}H_{50}N_{10}O_{16}$, dark yellow tiny lamellar crystals,

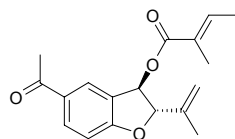
mp 257~260°C (dec). Pharm: Paralyzes muscle (monkey iv, $ED_{50} = 5.5$ or $6.5 \mu\text{g}/\text{kg}$ bi-chloride, gpg, iv, $ED_{50} = 9.35 \mu\text{g}/\text{kg}$); muscle relaxant (neuromuscular blocker of competitive type); LD_{50} (monkey, iv) = $8.9 \mu\text{g}/\text{kg}$, (monkey, sc) = $17.82 \mu\text{g}/\text{kg}$, (gpg, sc) = $14.4 \mu\text{g}/\text{kg}$. Source: DU MA QIAN *Strychnos toxifera*, FU SHI MA QIAN ZI *Strychnos froesii*. Ref: 661.

**21486 Toxol**

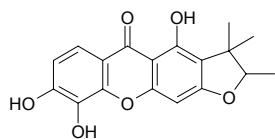
$C_{13}H_{14}O_3$ (218.26). Pharm: Antibacterial; antineoplastic. Source: family Asteraceae spp. Ref: 658.

**21487 Toxyl angelate**

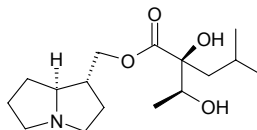
$C_{18}H_{20}O_4$ (300.36). Pharm: Antineoplastic (P₃₈₈). Source: family Asteraceae spp. Ref: 658.

**21488 Toxyloxanthone C**

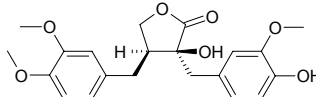
$C_{18}H_{16}O_6$ (328.32). Pharm: Antifungal (*Candida glabrata*, *Cryptococcus neoformans* and *Aspergillus fumigatus*, MIC = $8 \mu\text{g}/\text{mL}$)^[4713]. Source: GOU JI *Cudrania cochinchinensis* (root: yield = 0.00023%dw^[3025]; yield = 0.00039%dw^[4713]). Ref: 3025, 4713.

**21489 Trachelanthamidine 2S-hydroxy-2S-(1S-hydroxyethyl)-4-methylpentanoyl ester**

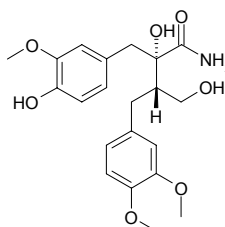
$C_{16}H_{29}NO_4$ (299.41). Yellow oil, $[\alpha]_D^{25} = +2.0^\circ$ ($c = 0.1$, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.

**21490 Trachelogenin**

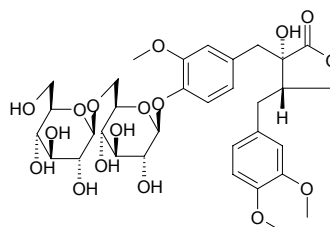
$C_{21}H_{24}O_7$ (388.42). Pharm: Calcium antagonist; cytotoxic (lymphoma cells). Source: WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*]. Ref: 658.

**21491 Trachelogenin amide**

$C_{21}H_{27}NO_7$ (405.45). White amorphous solid, $[\alpha]_D^{25} = -9^\circ$ ($c = 0.55$, MeOH). Source: LUO SHI TENG *Trachelospermum jasminoides* (leaf and stem). Ref: 5051.

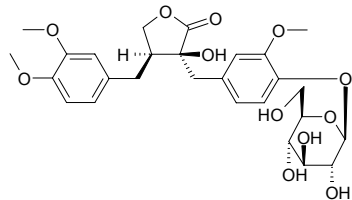
**21492 Trachelogenin 4'-O- β -gentiobioside**

$C_{33}H_{44}O_{17}$ (712.71). Source: LUO SHI TENG *Trachelospermum jasminoides* (leaf and stem). Ref: 5051.

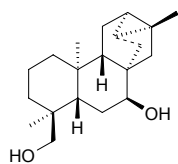


21493 Tracheloside

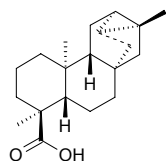
$C_{27}H_{34}O_{12}$ (550.56). mp 168–170°C. **Pharm:** Activity of trachelogenin: calcium antagonist (gpg, K^+ -induced contraction of colon bands, IC_{50} = 1.1 μ mol/L); antihypertensive (spontaneous hypertensive rat, strong and permanent action); cAMP phosphodiesterase inhibitor (IC_{50} = 227 μ mol/L); antihistamine (inhibits histamine release, rat mastocyte, ConA-reduced histamine release, IC_{50} = 19 μ mol/L); platelet aggregation inhibitor (due to ADP, 0.5mg/mL InRt = 35.4%); PAF antagonist; smooth muscle relaxant (tracheal, EC = 0.1mg/mL); cytotoxic (mus, lymphoma L5178Y cell, ED_{50} = 2.0 μ mol/L); anti-HIV (*in vitro*, inhibits replication of HIV-1, 0.5 μ mol/L, InRt to HIV-1 protein p17 and p24 = 60%–70%). **Source:** LUO SHI TENG *Trachelospermum jasminoides*, RI BEN LUO SHI *Trachelospermum asiaticum* (the compound was isolated from the plant by Chugi Kono in 1958)^[5505]. **Ref:** 6, 1757, 1758, 1759, 1760, 1761, 1762, 5505.

**21494 Trachyloban-7 β ,18-diol**

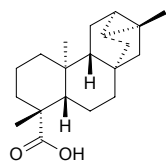
$C_{20}H_{32}O_2$ (304.48). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 4552.

**21495 Trachyloban-18-oic acid**

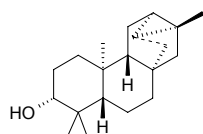
$C_{20}H_{30}O_2$ (302.46). **Source:** CHANG SUI BA DOU *Croton macrostachys*. **Ref:** 4552.

**21496 Trachyloban-19-oic acid**

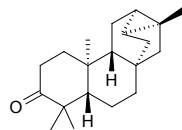
$C_{20}H_{30}O_2$ (302.46). **Source:** CHANG SUI BA DOU *Croton macrostachys*. **Ref:** 4552.

**21497 ent-Trachyloban-3 β -ol**

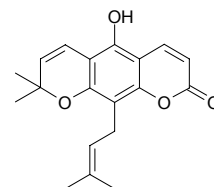
$C_{20}H_{32}O$ (288.48). **Pharm:** Cytotoxic (hmn cervical carcinoma cells, IC_{50} = 7.3 μ g/mL). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 4552.

**21498 ent-Trachyloban-3-one**

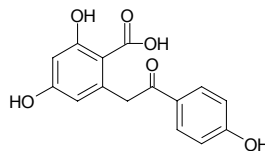
$C_{20}H_{30}O$ (286.46). Colorless oil, $[a]_D^{22} = -37^\circ$ ($c = 0.1$, CH_2Cl_2). **Pharm:** Cytotoxic (HeLa, IC_{50} = (9.6 \pm 1.6) μ g/mL, control Camptothecin, IC_{50} = 0.5 μ mol/mL; HL-60, IC_{50} = (12.4 \pm 1.9) μ g/mL, Camptothecin, IC_{50} = 0.1 μ mol/mL; WI-38, IC_{50} = (23.8 \pm 3.2) μ g/mL, Camptothecin, IC_{50} = 0.6 μ mol/mL). **Source:** ZAN BI XI BA DOU *Croton zambesicus* (leaf). **Ref:** 3807.

**21499 Trachyphyllin**

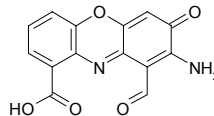
$C_{19}H_{20}O_4$ (312.37). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (45.3 \pm 1.5)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3 \pm 1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8 \pm 1.8)% (viability > 80%), compound IC_{50} = 467mol ratio/32 pmol TPA, β -Carotene, IC_{50} = 400mol ratio/32 pmol TPA, Curcumin, IC_{50} = 341mol ratio/32 pmol TPA). **Source:** LI HUA JU *Citrus tachibana*, *Citrus tamurana*. **Ref:** 5048.

**21500 Tragopogonic acid**

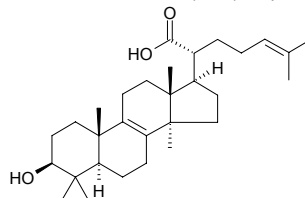
$C_{15}H_{12}O_6$ (288.26). Colorless crystals, 161°C (dec). **Pharm:** Antioxidant (DPPH scavenger, IC_{50} = (14.22 \pm 3.79) μ g/mL; control Ascorbic acid, IC_{50} = (2.49 \pm 0.32) μ g/mL; Caffeic acid, IC_{50} = (1.78 \pm 0.03) μ g/mL; Chlorogenic acid, IC_{50} = (1.28 \pm 0.38) μ g/mL). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**21501 Tramesanguin**

$C_{14}H_8N_2O_5$ (284.23). **Source:** HONG SHUAN JUN *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*]. **Ref:** 660.

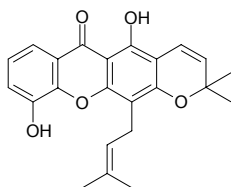
**21502 Trametenolic acid**

Trametenolic acid B $C_{30}H_{48}O_3$ (456.72). **Source:** FU LING *Poria cocos*, YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). **Ref:** 660, 4414.

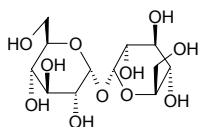


21503 Trapezifolixanthone

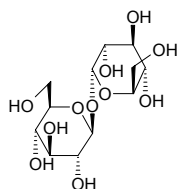
Toxyloxanthone A [50816-23-4] $C_{23}H_{22}O_5$ (378.43). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 12.5 μ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit). **Ref:** 4358.

**21504 Trehalose ($\alpha:\alpha$)**

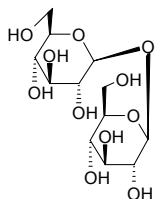
$C_{12}H_{22}O_{11}$ (342.30). mp 97°C (containing water), 210°C (anhydrite). **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21505 Trehalose ($\alpha:\beta$)**

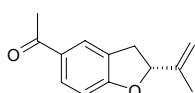
$C_{12}H_{22}O_{11}$ (342.30). mp 210~220°C. **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21506 Trehalose ($\beta:\beta$)**

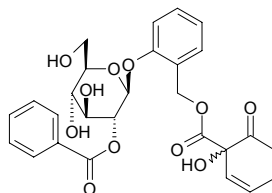
$C_{12}H_{22}O_{11}$ (342.30). mp 135~140°C. **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21507 Tremetone**

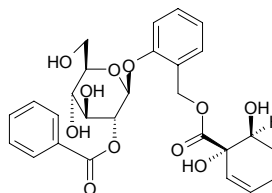
$C_{13}H_{14}O_2$ (202.26). **Pharm:** Causes hmn mammary diseases; fish toxin. **Source:** QIAN MA YE ZE LAN *Eupatorium urticaefolium*, ZHOU YE ZE LAN *Eupatorium rugosum*, *Ligularia* sp., *Grindelia* sp., *Liatis* sp. **Ref:** 658.

**21508 Tremulacin**

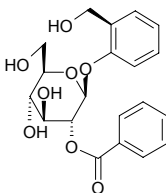
$C_{27}H_{28}O_{11}$ (528.52). Colorless crystals (ethyl acetate), mp 122~123°C; Colorless prisms, mp 122~125°C. **Pharm:** Antiviral (HSV-1, EC₅₀ = 87 μ mol/L; HSV-2, EC₅₀ = 86 μ mol/L; HIV-1, EC₅₀ = 52 μ mol/L; control Acyclovir, HSV-1, EC₅₀ = 1.1 μ mol/L; HSV-2, EC₅₀ = 1 μ mol/L; control Azidothymidine, HIV-1, EC₅₀ = 0.02 μ mol/L)^[4742]; antipyretic; diuretic; used in treatment of trachitis. **Source:** CHAN YANG *Populus tremuloides*, OU ZHOU SHAN YANG *Populus tremula*, TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.438%)^[4742], YI YE YANG *Populus heterophylla*. **Ref:** 661, 4742.

**21509 Tremulacinal**

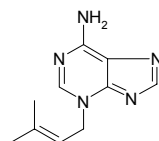
$C_{27}H_{30}O_{11}$ (530.53). Colorless amorphous mass. **Pharm:** Antiviral inactive (HSV-1 and HSV-2). **Source:** TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.114%). **Ref:** 4742.

**21510 Tremuloidin**

$C_{20}H_{22}O_8$ (390.39). Colorless powder, mp 162~168°C. **Pharm:** Antiviral inactive (HSV-1 and HSV-2)^[4742]. **Source:** TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.002%), CHAN YANG *Populus tremuloides*, MAO BAI YANG *Populus tomentosa*. **Ref:** 660, 4742.

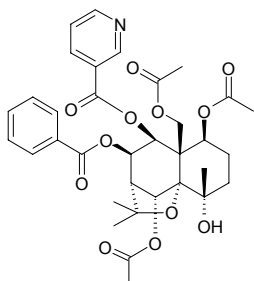
**21511 Triacanthine**

Triacanthin [10091-84-6] $C_{10}H_{13}N_5$ (203.25). mp 228~229°C. **Pharm:** Antineoplastic (Zajdela ascites carcinoma); antispasmodic (gpg); coronary vasodilator (dog, iv); vulnerary; inhibits respiration; antihypertensive (cat, rbt, and gpg iv); enhances myocardial contractility (rbt, heart, *in vitro*); sedative (mus); slows heart rate ((rbt, iv, increases amplitude and controlling rhythm); used in treatment of hypertension, bronchial asthma, ulcer of digestive tract, and chronic enteritis; LD₅₀ (mus iv) = 147mg/kg. **Source:** SAN CI ZAO JIA *Gleditsia triacanthos*, WEN ROU ZHI XIE MU *Holarrhena mitis*, ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZAO JIA YE *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZAO JIA GEN PI *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 4, 658.



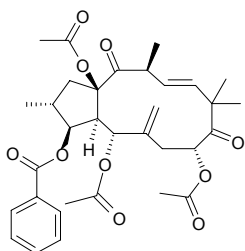
21512 1 β ,5 α ,11-Triacetoxo-7 β -benzoyl-4 α -hydroxy-8 β -nicotinoyl-dihydroagarofuran

C₃₄H₃₉NO₁₂ (653.69). Amorphous powder, $[\alpha]_D^{25} = -52.4^\circ$ ($c = 0.4$, MeOH). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 758.



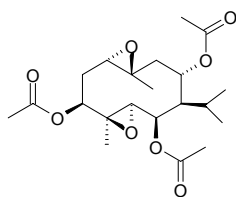
21513 (2R*,3S*,4R*,5R*,8R*,13S*,15R*)-5,8,15-Triacetoxo-3-benzoyloxy-9,14-dioxajatropha-6(17),11E-diene

C₃₃H₄₀O₁₀ (596.68). Colorless to white needles. Source: HAI BO NA DA JI *Euphorbia hyberna*. Ref: 2153.



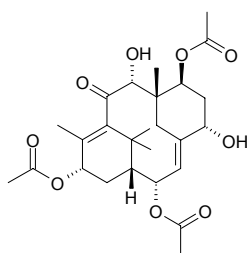
21514 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α :1 α ,10 β -diepoxygermacrane

C₂₁H₃₂O₈ (412.48). Colorless gum, $[\alpha]_D^{26} = +5.0^\circ$ ($c = 2.0$, CHCl₃). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



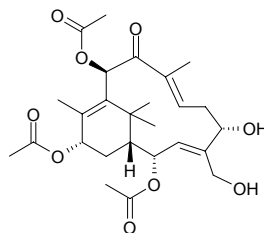
21515 2 α ,7 β ,13 α -Triacetoxo-5 α ,9 α -dihydroxy-2(3→20)abeotaxa-4(20),11-dien-10-one

C₂₆H₃₆O₉ (492.57). Colorless gum, $[\alpha]_D^{24} = -13^\circ$ ($c = 0.01$, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (seed). Ref: 3991.



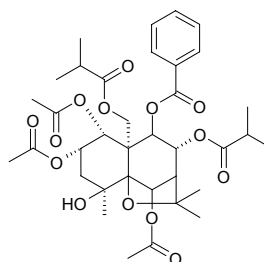
21516 (3E,7E)-2 α ,10 β ,13 α -Triacetoxo-5 α ,20-dihydroxy-3,8-seco-taxa-3,7,11-trien-9-one

C₂₆H₃₆O₉ (492.57). mp 77~78°C, $[\alpha]_D = -60^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.



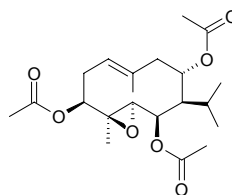
21517 1 α ,2 α ,6 β -Triacetoxo-8 α ,13-diisobutanoyloxy-9 β -benzoyloxy-4 β -hydroxy- β -dihydroagarofuran

C₃₆H₄₈O₁₄ (704.78). White amorphous powder, mp 94~95°C, $[\alpha]_D^{24} = -34.3^\circ$ ($c = 0.35$, CHCl₃). Pharm: Insecticidal (larval of *Mythimna separata*, KD₅₀ = 271.5 μ g/g). Source: DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00032%dw). Ref: 3044.



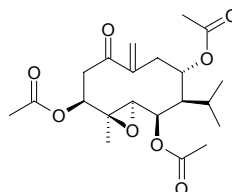
21518 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α -epoxygermacr-1(10)E-ene

C₂₁H₃₂O₇ (396.48). Colorless gum, $[\alpha]_D^{26} = -12.7^\circ$ ($c = 16.5$, CHCl₃). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



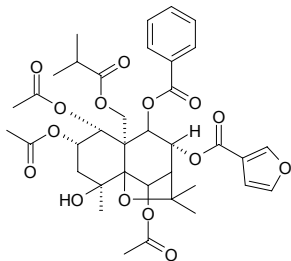
21519 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α -epoxy-1-oxogermacr-10(14)-ene

C₂₁H₃₀O₈ (410.47). Colorless gum, $[\alpha]_D^{26} = +29.0^\circ$ ($c = 2.0$, CHCl₃). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



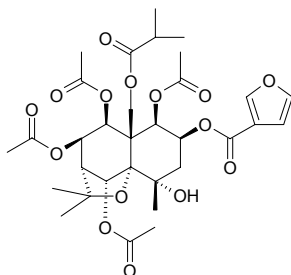
21520 1 α ,2 α ,6 β -Triacetoxo-8 α -(β -furancarboxyloxy)-9 β -benzoyloxy-13-isobutanoyloxy-4 β -hydroxy- β -dihydroagarofuran

C₃₇H₄₄O₁₅ (728.75). White amorphous powder, mp 109~110°C, [α]_D²⁴ = -25.9° (c = 0.58, CHCl₃). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD₅₀ = 58.9 μ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00048%dw). **Ref:** 3044.



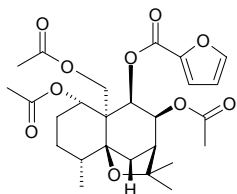
21521 1 β ,7 β ,8 α -Triacetoxo-2 β -furanoyl-4 α -hydroxy-11-isobutyryloxy-dihydroagarofuran

C₃₂H₄₂O₁₅ (666.68). Amorphous powder, [α]_D²⁵ = -13.1° (c = 1.7, MeOH). **Pharm:** Immunosuppressant (inhibits lymphocyte transformation, 80 μ g/mL, InRt = 28%, control Dexamethasone, 50 μ g/mL, InRt = 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.



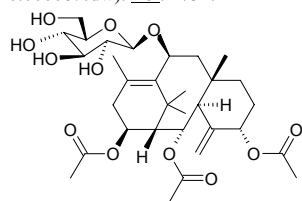
21522 1 α ,8 β ,14-Triacetoxo-9 β -furoxyldihydro- β -agarofuran

C₂₆H₃₄O₁₀ (506.55). White amorphous powder, [α]_D²⁵ = -8.68° (c = 0.32, MeOH). **Pharm:** Intestinal smooth muscle relaxant (*in vitro*, rat ileum, 1 μ g/mL, relaxant effect = (30.6 \pm 7.2)%, control Papaverine, relaxant effect = (28.6 \pm 7.3)%, *p* < 0.05). **Source:** DENG YOU TENG ZI *Celastrus paniculatus*. **Ref:** 5002.



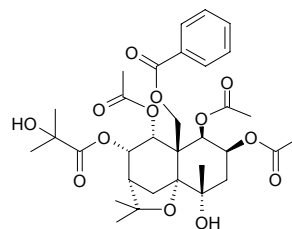
21523 2 α ,5 α ,14 β -Triacetoxo-10 β -O-(β -D-glucopyranosyl)taxa-4(20),11-diene

C₃₂H₄₈O₁₂ (624.73). Amorphous solid, [α]_D²² = +39° (c = 0.2, CHCl₃). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle: yield = 0.00008%dw). **Ref:** 4734.



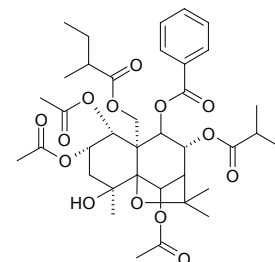
21524 1 β ,2 β ,9 α -Triacetoxo-8 α -(2-hydroxy-isobutyryoxy)-15-benzoyloxy-4 α -hydroxy- β -dihydroagarofuran

C₃₂H₄₂O₁₃ (634.68). Amorphous white powder. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 824.



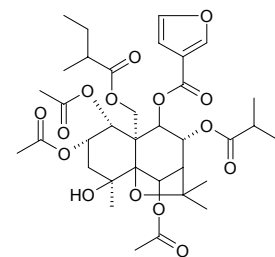
21525 1 α ,2 α ,6 β -Triacetoxo-8 α -isobutanoyloxy-9 β -benzoyloxy-13-(α -methyl)butanoyloxy-4 β -hydroxy- β -dihydroagarofuran

C₃₇H₅₀O₁₄ (718.8). White amorphous powder, mp 95~96°C, [α]_D²⁴ = -17.9° (c = 0.60, CHCl₃). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD₅₀ = 168.8 μ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00042%dw). **Ref:** 3044.



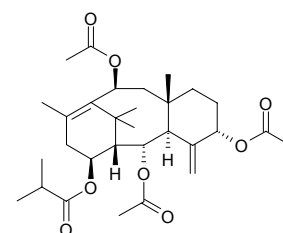
21526 1 α ,2 α ,6 β -Triacetoxo-8 β -isobutanoyloxy-9 β -(β -furancarboxyloxy)-13-(α -methyl)butanoyloxy-4 β -hydroxy- β -dihydroagarofuran

C₃₅H₄₈O₁₅ (708.76). White amorphous powder, mp 78~79°C, [α]_D²⁴ = -25.8° (c = 0.60, CHCl₃). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD₅₀ = 91.4 μ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00098%dw). **Ref:** 3044.



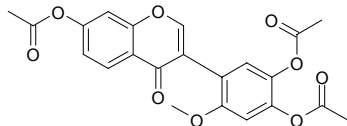
21527 2 α ,5 α ,10 β -Triacetoxo-14 β -iso-butyryloxytaxa-4(20),11-diene

C₃₀H₄₄O₈ (532.68). mp 183°C, [α]_D = +33.96° (MeOH). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

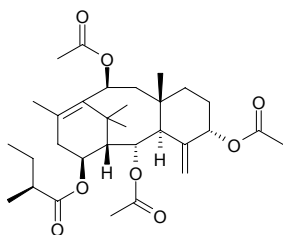


21528 4',5',7-Triacetoxy-2'-methoxyisoflavone

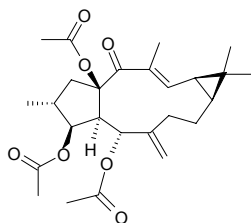
$C_{22}H_{18}O_9$ (426.38). Yellow-brown solid. Source: GUANG LIANG HUANG TAN *Dalbergia nitidula*. Ref: 1992.

**21529 2 α ,5 α ,10 β -Triacetoxy-14 β -((S)2-methyl)butyryloxytaxa-4(20),11-diene**

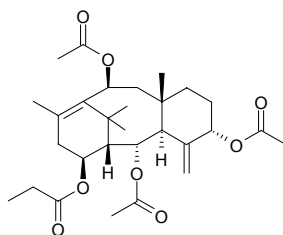
$C_{31}H_{46}O_8$ (546.71). mp 106°C, $[\alpha]_D = +36.96^\circ$ (MeOH). Pharm: Cytotoxic (*in vitro*, Colon26-L5, $EC_{50} = 84.9 \mu\text{g/mL}$; HT1080, $EC_{50} = 84.1 \mu\text{g/mL}$; control 5-Fluorouracil, Colon26-L5, $EC_{50} = 0.29 \mu\text{g/mL}$; HT1080, $EC_{50} = 0.07 \mu\text{g/mL}$)^[4661]. Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0080%dw)^[4661], ZI SHAN *Taxus cuspidata*. Ref: 662, 4661, 5407.

**21530 (2R*,3S*,4R*,5R*,9S*,11S*,15R*)-3,5,15-Triacetoxy-14-oxolathra-6(17),12E-diene**

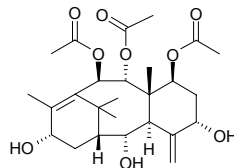
$C_{26}H_{36}O_7$ (460.57). Colorless oil. Source: HAI BO NA DA JI *Euphorbia hyberna*. Ref: 2153.

**21531 2 α ,5 α ,10 β -Triacetoxy-14 β -propionyloxytaxa-4(20),11-diene**

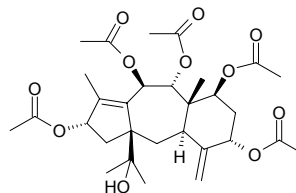
$C_{29}H_{42}O_8$ (518.65). mp 195°C, $[\alpha]_D = +41.37^\circ$ (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**21532 7 β ,9 α ,10 β -Triacetoxy-2 α ,5 α ,13 α -trihydroxy-4(20),11-taxadiene**

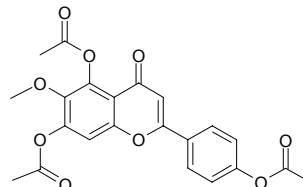
$C_{26}H_{38}O_9$ (494.59). $[\alpha]_D = +129^\circ$ (CHCl₃). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**21533 5,10,13-Triacetyl-10-debenzoyl brevifoliol**

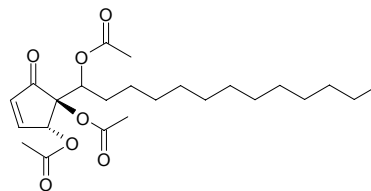
5,10,13-Acetyl-10-debenzoyl brevifoliol $C_{30}H_{42}O_{11}$ (578.66). Oil, $[\alpha]_D = -50^\circ$ ($c = 1.0$, CHCl₃). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662, 1874.

**21534 Triacetylhispidulin**

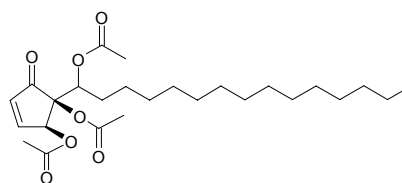
$C_{22}H_{18}O_9$ (426.38). mp 168.7°C. Source: CHANG GUAN JIA MO LI *Clerodendron indicum*. Ref: 6.

**21535 4,5,6-Tri-O-acetyl hygrophorone A¹²**

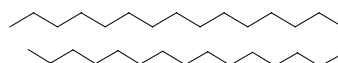
4,5-trans-4,5-Diacetoxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one $C_{24}H_{38}O_7$ (438.57). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**21536 4,5,6-Tri-O-acetyl hygrophorone B¹⁴**

4,5-cis-4,5-Diacetoxy-(1-acetoxypentadecyl)-2-cyclopenten-1-one $C_{26}H_{42}O_7$ (466.62). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

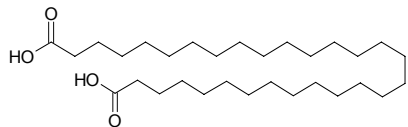
**21537 Triacontane**

[638-68-6] $C_{30}H_{62}$ (422.83). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2.

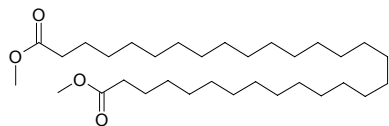


21538 Triacontanedioic acid

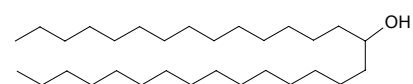
$C_{30}H_{58}O_4$ (482.79). mp 108°C; 123~125°C. Source: WEN JING *Equisetum arvense*. Ref: 6.

**21539 Triacontanedioic acid dimethyl ester**

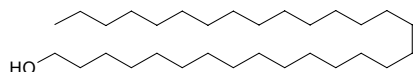
$C_{32}H_{62}O_4$ (510.85). Source: WEN JING *Equisetum arvense*. Ref: 6.

**21540 16-Triacontanol**

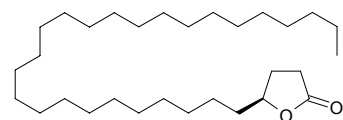
$C_{30}H_{62}O$ (438.83). Source: LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*]. Ref: 6.

**21541 n-Triacontanol**

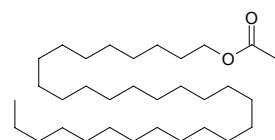
[593-50-0] $C_{30}H_{62}O$ (438.83). mp 76~78°C; 83~84°C. Pharm: Plant growth regulator. Source: DU ZHONG *Eucommia ulmoides*, KU HAO *Conyza blinii*, MA HUANG *Ephedra sinica*, ROU CONG RONG *Cistanche deserticola*, SAN XIAO CAO *Trifolium repens*, XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)^[4769], YE JIE *Brassica oleracea*. Ref: 2, 529, 614, 658, 660, 4769.

**21542 Triacontan-4-olide**

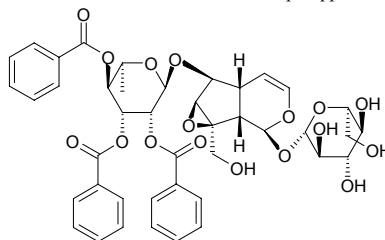
$C_{30}H_{58}O_2$ (450.80). Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

**21543 Triacontanyl acetate**

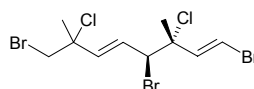
$C_{32}H_{64}O_2$ (480.87). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

**21544 6-O-α-L-(2''-O-,3''-O-,4''-O-Tribenzoyl)rhamnopyranosylcatalpol**

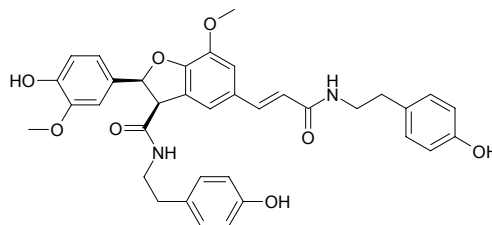
$C_{42}H_{44}O_{17}$ (820.81). White amorphous powder, $[\alpha]_D^{22} = -56^\circ$ (c = 0.11, MeOH). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.

**21545 1,4,8-Tribromo-3,7-dichloro-3,7-dimethyl-1E,5E-octadiene**

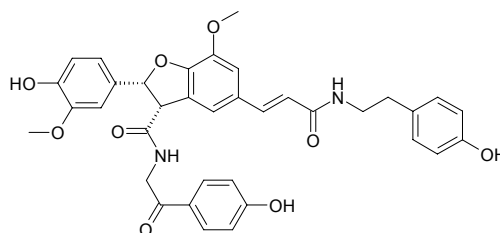
$C_{10}H_{13}Br_3Cl_2$ (443.83). Pharm: Cytotoxic (*in vitro*, WHCO1, $IC_{50} = 18.1\mu\text{mol/L}$ control *cis*-Platin, $IC_{50} = 13\mu\text{mol/L}$). Source: SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. Ref: 5277.

**21546 Tribulusamide A**

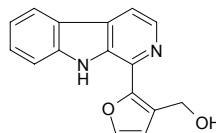
[218622-84-5] $C_{36}H_{36}N_2O_8$ (624.70). $[\alpha]_D^{25} = -10.9^\circ$. Source: CI JI LI *Tribulus terrestris*. Ref: 715.

**21547 Tribulusamide B**

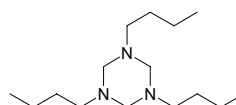
$C_{36}H_{34}N_2O_9$ (638.68). Source: CI JI LI *Tribulus terrestris*. Ref: 715.

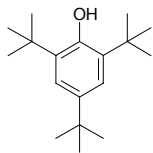
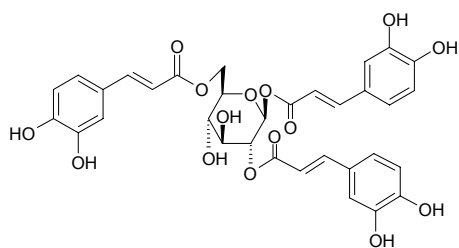
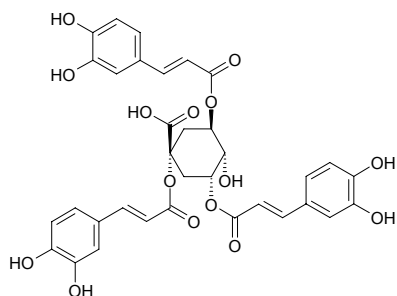
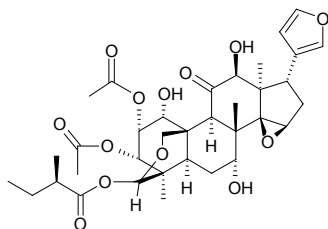
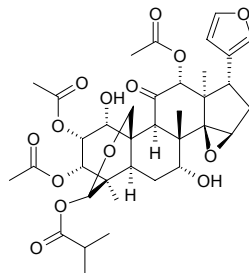
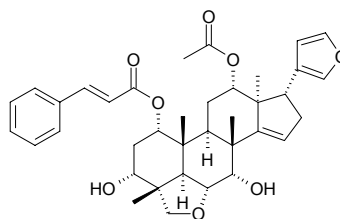
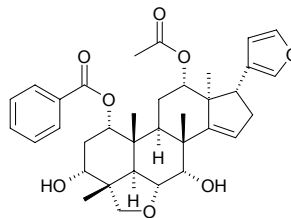
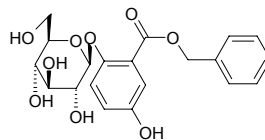
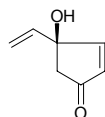
**21548 Tribusterin**

$C_{16}H_{12}N_2O_2$ (264.29). Yellowish powder ($CHCl_3$), mp 184~185°C. Source: CI JI LI *Tribulus terrestris*. Ref: 1881.

**21549 1,3,5-Tributylhexahydro-1,3,5-triazine**

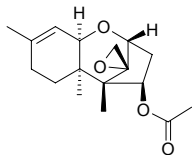
$C_{13}H_{33}N_3$ (255.45). Source: LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*]. Ref: 660.



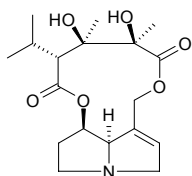
21550 2,4,6-Tri-*t*-butyl phenolC₁₈H₃₀O (262.44). Source: CHUAN XU DUAN *Dipsacus asperoides*.Ref: 660.**21551 1,2,6-Tri-*O*-(*E*)-caffeoyl- β -*D*-glucopyranose**C₃₃H₃₀O₁₅ (666.60). Yellow amorphous powder, $[\alpha]_D^{15} = -218.6^\circ$ ($c = 0.4$, MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0150%). Ref: 4101.**21552 1,3,5-Tri-*O*-caffeoyl quinic acid**C₃₄H₃₀O₁₅ (678.61). Source: CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*] (fruit). Ref: 660.**21553 Trichilin A**C₃₅H₄₆O₁₃ (674.75). Pharm: Insect antifeedant. Source: family Meliaceae spp. Ref: 658.**21554 Trichilin H**C₃₆H₄₆O₁₄ (702.76). Pharm: Cytotoxic (inhibits KB cell's growth, IC₅₀ = 0.11 μg/mL, control Adriamycin, IC₅₀ = 0.066 μg/mL)^[2314]. Source: CHUAN LIAN PI *Melia toosendan*, KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 2314, 4528.**21555 Trichilin D**C₃₇H₄₄O₈ (616.76). Amorphous powder, $[\alpha]_D = +96^\circ$ ($c = 0.14$). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.**21556 Trichilin E**C₃₅H₄₂O₈ (590.72). Amorphous powder, $[\alpha]_D = +45^\circ$ ($c = 0.03$). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.**21557 Trichocarpin**C₂₀H₂₂O₉ (406.40). Pharm: Antifungal (*Dothichiza populea*). Source: MAO GUO YANG *Populus trichocarpa*. Ref: 658.**21558 Trichodenone A**[203243-21-4] C₇H₈O₂ (124.14). Source: *Myrothecium* sp. Ref: 4457.

21559 Trichodermin

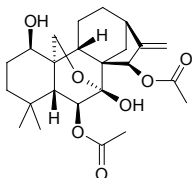
$C_{17}H_{24}O_4$ (292.38). **Pharm:** Antifungal (*Candida albicans*); cytotoxic. **Source:** LV SE MU MEI *Trichoderma virida*, *Myrothecium roridum*. **Ref:** 658.

**21560 Trichodesmine**

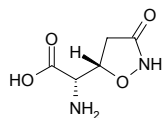
$C_{18}H_{27}NO_6$ (353.42). mp 160~161°C. **Source:** HUA JIN DAN *Crotalaria tetragona*, SHU MA *Crotalaria juncea*, YE BAI HE *Crotalaria sessiliflora*. **Ref:** 6, 660, 1521.

**21561 Trichokaurin**

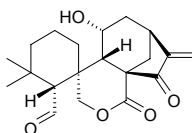
Enmenin $C_{24}H_{34}O_7$ (434.53). mp 184~185°C, $[\alpha]_D^{17} = -93^\circ$ ($c = 1.0$, $CHCl_3$). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808, 4067.

**21562 Tricholomic acid**

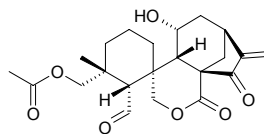
$C_5H_8N_2O_4$ (160.13). Colorless columnar crystals (water), mp 207°C (dec), $[\alpha]_D = +80^\circ$ ($c = 0.2$, water). **Pharm:** Antineoplastic (mus, 5~50mg/kg); CNS stimulant. **Source:** *Tricholoma muscarium*. **Ref:** 661.

**21563 Trichorabdal A**

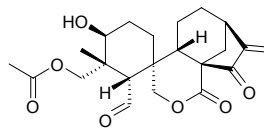
$C_{20}H_{26}O_5$ (346.43). mp 202~204°C, $[\alpha]_D^{25} = -63.9^\circ$ ($c = 0.001$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808, 4067.

**21564 Trichorabdal B**

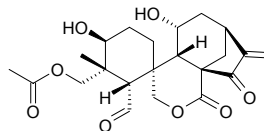
$C_{22}H_{28}O_7$ (404.46). Colorless acicular crystals, mp 160~162°C, $[\alpha]_D^{25} = -120.3^\circ$ ($c = 1.0$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 653, 4067.

**21565 Trichorabdal C**

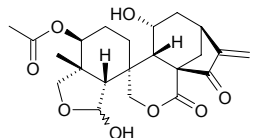
$C_{22}H_{28}O_7$ (404.46). mp 146.5~149°C, $[\alpha]_D^{25} = +31.5^\circ$ ($c = 1.0$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21566 Trichorabdal D**

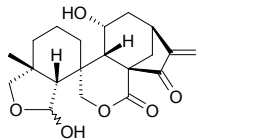
$C_{22}H_{28}O_8$ (420.46). mp 213~215°C, $[\alpha]_D^{25} = -89.2^\circ$ ($c = 0.01$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21567 Trichorabdal E**

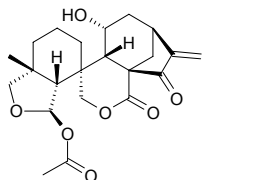
$C_{22}H_{28}O_8$ (420.46). mp 291°C, $[\alpha]_D^{25} = -98.4^\circ$ ($c = 0.02$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21568 Trichorabdal F**

$C_{20}H_{26}O_6$ (362.43). mp 227~230°C. **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21569 Trichorabdal F acetate**

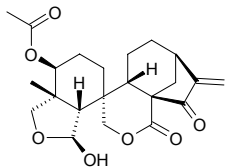
$C_{22}H_{28}O_7$ (404.46). mp 221~223°C, $[\alpha]_D^{25} = -78.0^\circ$ ($c = 0.05$, EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.



21570 Trichorabdal G

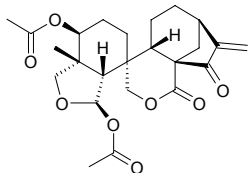
$C_{22}H_{28}O_7$ (404.46). Amorphous powder, $[\alpha]_D^{27} = -48.9^\circ$ ($c = 0.47$, MeOH).

Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21571 Trichorabdal G acetate**

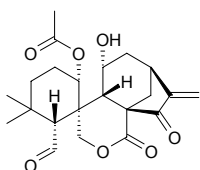
$C_{24}H_{30}O_8$ (446.50). mp 214~215°C, $[\alpha]_D^{25} = -65.2^\circ$ ($c = 0.05$, EtOH). Source:

MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21572 Trichorabdal H**

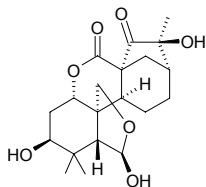
Trichodonin [92533-54-5] $C_{22}H_{28}O_7$ (404.46). mp 217~219°C, $[\alpha]_D^{25} = +19.4^\circ$ ($c = 0.05$, MeOH). Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*,

MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 575, 4067.

**21573 Trichorabdonin**

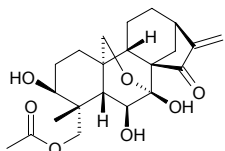
$C_{20}H_{28}O_7$ (380.44). mp > 300°C, $[\alpha]_D^{24} = -75.0^\circ$ ($c = 0.12$, MeOH). Source:

MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

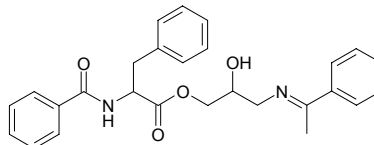
**21574 Trichoranin**

$C_{22}H_{30}O_7$ (406.48). mp 210~212°C, $[\alpha]_D^{29} = -88.9^\circ$ ($c = 0.90$, MeOH). Source:

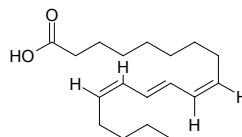
MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21575 Trichosanatine**

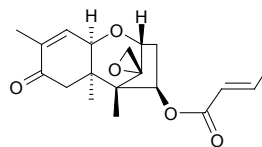
3-[(1-Phenyl)ethylidene]amino-2-hydroxy-propyl α -(benzoyl amino)benzenepropanoate $C_{27}H_{28}N_2O_4$ (444.54). Colorless acicular crystals, mp 175.5~176.0°C. Source: SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. Ref: 331.

**21576 Trichosanic acid**

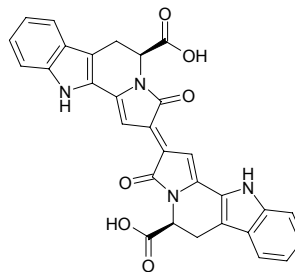
$C_{18}H_{30}O_2$ (278.44). mp 44°C. Pharm: Platelet aggregation inhibitor (induced by ADP, collagen and adrenaline). Source: GUA LOU *Trichosanthes kirilowii*, GUA LOU ZI *Trichosanthes kirilowii*, SUAN SHI LIU *Punica granatum*, WANG GUA ZI *Trichosanthes cucumeroides*. Ref: 2, 660, 5501.

**21577 Trichothecin**

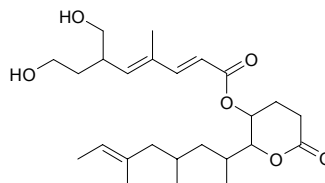
$C_{19}H_{24}O_5$ (332.40). Pharm: Antibacterial; LD₅₀ (mus, iv) = 300mg/kg. Source: *Trichothecium roseum*. Ref: 658.

**21578 Trichotomine**

$C_{30}H_{20}N_4O_6$ (532.52). Pharm: Bronchial smooth muscle relaxant; antihypertensive; sedative. Source: CHOU WU TONG *Clerodendron trichotomum*, DOU FU CHAI *Premna microphylla*. Ref: 658.

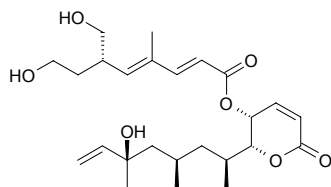
**21579 Trichurusin B**

$C_{25}H_{40}O_6$ (436.59). Colorless amorphous powder, $[\alpha]_D^{24} = +18.4^\circ$ ($c = 0.71$, MeOH). Pharm: Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, IC₅₀ = 2.0µg/mL, control Cyclosporin, IC₅₀ = 0.04µg/mL; LPS-induced proliferation, IC₅₀ = 0.8µg/mL, control Cyclosporin, IC₅₀ = 0.07µg/mL). Source: MAO SHU MEI *Trichurus terrophilus*. Ref: 4491.

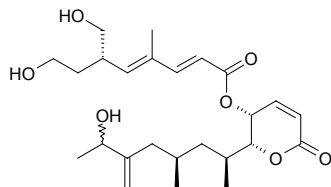


21580 Trichurusin C

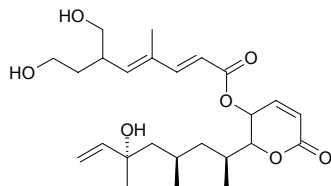
$C_{25}H_{38}O_7$ (450.58). Colorless amorphous powder, $[\alpha]_D^{25} = -166.6^\circ$ ($c = 1.08$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 1.2\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 0.4\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21581 Trichurusin D**

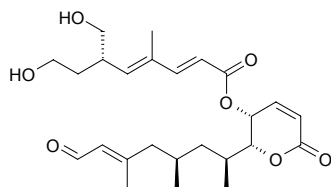
$C_{25}H_{38}O_7$ (450.58). White amorphous powder, $[\alpha]_D^{25} = -78.1^\circ$ ($c = 1.44$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 0.9\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 0.4\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21582 Trichurusin E**

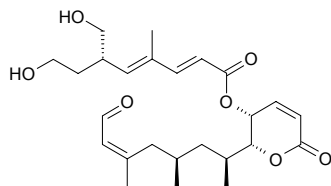
$C_{25}H_{38}O_7$ (450.38). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21583 Trichurusin F**

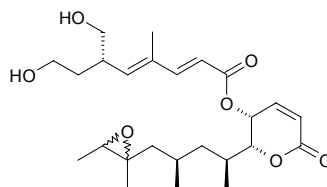
$C_{25}H_{36}O_7$ (448.56). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21584 Trichurusin G**

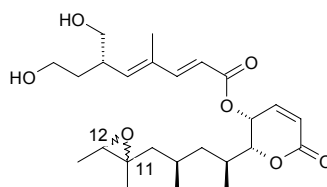
$C_{25}H_{36}O_7$ (448.56). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21585 Trichurusin H**

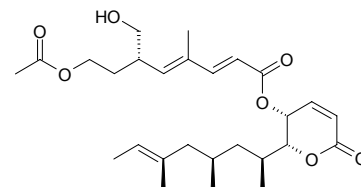
$C_{25}H_{38}O_7$ (450.58). White amorphous powder, $[\alpha]_D^{25} = -124.9^\circ$ ($c = 0.80$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 6.2\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 6.0\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21586 Trichurusin I**

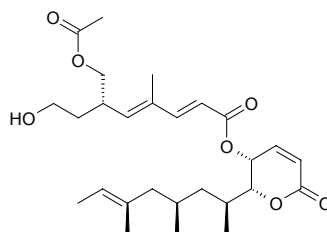
$C_{25}H_{38}O_7$ (450.58). White amorphous powder, $[\alpha]_D^{25} = -167.3^\circ$ ($c = 2.9$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 4.7\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 4.5\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21587 Trichurusin J**

$C_{27}H_{40}O_7$ (476.62). Colorless amorphous powder, $[\alpha]_D^{24} = -135.1^\circ$ ($c = 0.17$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, LPS-induced proliferation, $IC_{50} = 6.4\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

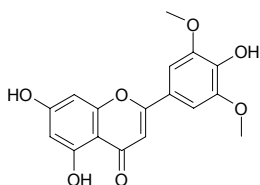
**21588 Trichurusin K**

$C_{27}H_{40}O_7$ (476.62). White amorphous powder, $[\alpha]_D^{25} = -122.3^\circ$ ($c = 0.23$, MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, $IC_{50} = 6.9\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.04\mu\text{g/mL}$; LPS-induced proliferation, $IC_{50} = 6.9\mu\text{g/mL}$, control Cyclosporin, $IC_{50} = 0.07\mu\text{g/mL}$). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

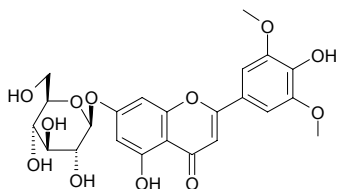


21589 Tricin

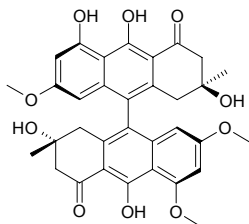
[520-32-1] $C_{17}H_{14}O_7$ (330.30). Yellow powder. **Pharm:** Antineoplastic; smooth muscle relaxant; antitubercular (*Mycobacterium tuberculosis*, MIC = 58.5 $\mu\text{g}/\text{mL}$; cytotoxic, Vero cells, IC_{50} = 20.2 $\mu\text{g}/\text{mL}$, SI (IC_{50}/MIC) = 0.35, positive control Rifampin, MIC = 0.03 $\mu\text{g}/\text{mL}$, IC_{50} = 98.3 $\mu\text{g}/\text{mL}$, SI = 3300)^[4986]. **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum*, CU MAO YIN YANG HUO *Epimedium acuminatum*, HU LU BA *Trigonella foenum-graecum*, LIAO GE WANG GEN *Wikstroemia indica*, LU GEN *Phragmites communis*, MANG JING *Miscanthus sinensis*, MU XU *Medicago sativa*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YAN DI HE *Spartina cynosuroides*, ZHEN KUI *Phoenix canariensis*, SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). **Ref:** 4, 458, 539, 615, 658, 660, 4986.

**21590 Tricin-7-O- β -D-glucopyranoside**

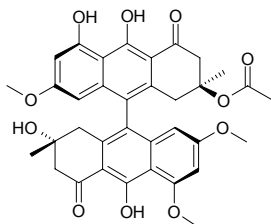
$C_{23}H_{24}O_{12}$ (492.44). Yellow needle crystals (methanol), mp 186–188°C, mp 246–248°C. **Source:** HU LU BA *Trigonella foenum-graecum*, MAO JIAN QIU LUO *Lychnis coronaria*. **Ref:** 615, 2189.

**21591 Tricolorin A**

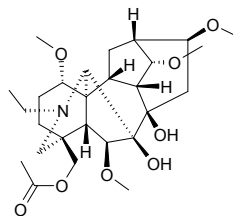
$C_{33}H_{32}O_{10}$ (588.62). **Source:** SAN SE BAI ZHUANG GU *Leucopaxillus tricolor*. **Ref:** 3799.

**21592 Tricolorin A acetate**

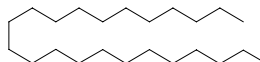
$C_{35}H_{34}O_{11}$ (630.65). **Source:** SAN SE BAI ZHUANG GU *Leucopaxillus tricolor*. **Ref:** 3799.

**21593 Tricornine**

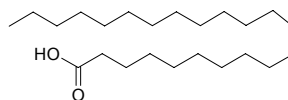
$C_{27}H_{43}NO_8$ (509.65). **Pharm:** Bidirectional action to neuromuscular transmission (in high dose, first enhances and then inhibits); enhances neuromuscular transmission (low dose). **Source:** SAN JU AI CUI QUE *Delphinium tricorne*. **Ref:** 658.

**21594 n-Tricosane**

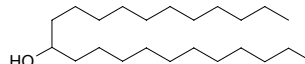
$C_{23}H_{48}$ (324.64). **Source:** GAN CAO *Glycyrrhiza uralensis*, GOU QI GEN PI *Lycium chinense*. **Ref:** 660.

**21595 n-Tricosanoic acid**

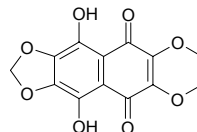
[2433-96-7] $C_{23}H_{46}O_2$ (354.62). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2.

**21596 12-Tricosanol**

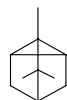
$C_{23}H_{48}O$ (340.64). **Source:** BEI AI *Artemisia vulgaris*. **Ref:** 660.

**21597 Tricozarin A**

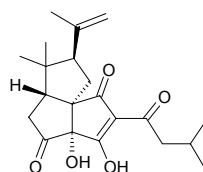
$C_{13}H_{10}O_8$ (294.22). **Pharm:** Antimicrobial (gram-positive bacteria, fungi and microzymes). **Source:** XIONG HUANG LAN *Tritonia crocosmaeflora*. **Ref:** 658.

**21598 Tricyclene**

Cyclene; Teresantanane [508-32-7] $C_{10}H_{16}$ (136.24). **Source:** SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

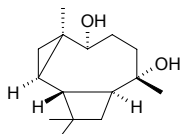
**21599 Tricyclodehydroisohumulone**

$C_{21}H_{28}O_5$ (360.45). **Pharm:** Bitter principle. **Source:** PI JIU HUA *Humulus lupulus*. **Ref:** 658.

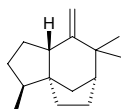


21600 Tricyclohumuladiol

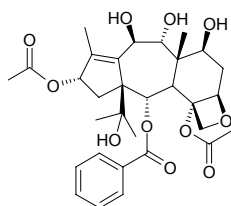
$C_{15}H_{26}O_2$ (238.37). **Pharm:** CYP3A4 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Ketoconazole $IC_{50} = 0.24\mu\text{mol/L}$); CYP2D6 inhibitor inactive ($IC_{50} > 100\mu\text{mol/L}$, control Quinidine $IC_{50} = 0.068\mu\text{mol/L}$). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome). **Ref:** 4449.

**21601 Tricyclovetivene**

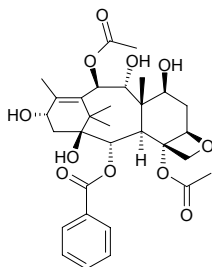
$C_{15}H_{24}$ (204.36). bp 120~122°C/10mmHg. **Source:** HUA JIN DAN *Crotalaria tetragona*. **Ref:** 6.

**21602 7,9,10-Trideacetyl-abeo-baccatin VI**

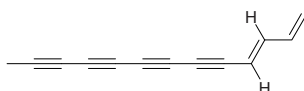
$C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -25^\circ$ (CHCl_3). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**21603 7,9,13-Trideacetyl-baccatin VI**

$C_{31}H_{40}O_{11}$ (588.66). Gum. **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). **Ref:** 3958.

**21604 1,3E-Tridecadiene-5,7,9,11-tetrayne**

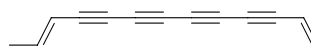
$C_{13}H_8$ (164.21). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.

**21605 1,3Z-Tridecadiene-5,7,9,11-tetrayne**

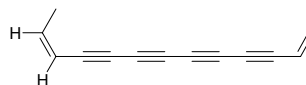
$C_{13}H_8$ (164.21). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.

**21606 1,11E-Tridecadiene-3,5,7,9-tetrayne**

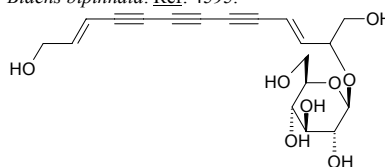
$C_{13}H_8$ (164.21). **Source:** NIU BANG GEN *Arctium lappa*. **Ref:** 6.

**21607 1,11Z-Tridecadiene-3,5,7,9-tetrayne**

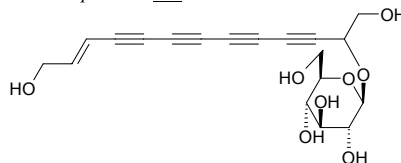
$C_{13}H_8$ (164.21). **Source:** HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*. **Ref:** 660.

**21608 Trideca-2β-D-glucopyranosyl-1,13-dihydroxy-3(E),11(E)-dien-5,7,9-triyn**

$C_{19}H_{22}O_8$ (378.38). Off-white powder (30% EtOH). **Source:** GUI ZHEN CAO *Bidens bipinnata*. **Ref:** 4595.

**21609 Trideca-2β-D-glucopyranosyl-1,13-dihydroxy-11(E)-en-3,5,7,9-tetrayne**

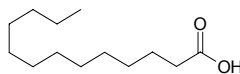
$C_{19}H_{20}O_8$ (376.37). Off-white powder (30% EtOH). **Source:** GUI ZHEN CAO *Bidens bipinnata*. **Ref:** 4595.

**21610 n-Tridecane**

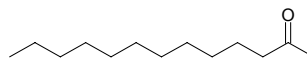
Tridecane [629-50-5] $C_{13}H_{28}$ (184.37). **Source:** CHAI HU *Bupleurum chinense*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], LANG DU *Stellera chamaejasme*. **Ref:** 2, 660.

**21611 Tridecanoic acid**

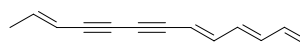
[638-53-9] $C_{13}H_{26}O_2$ (214.35). **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. **Ref:** 2.

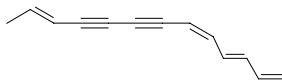
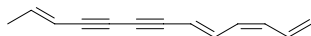
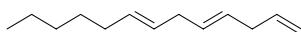
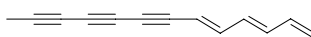
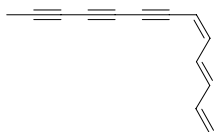
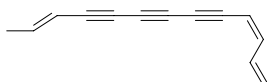
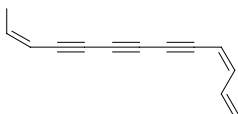
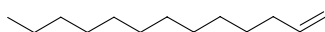
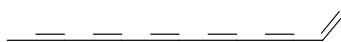
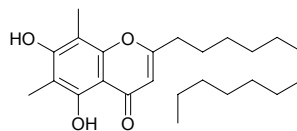
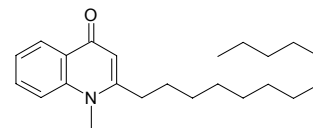
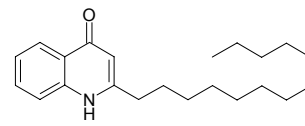
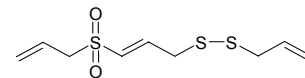
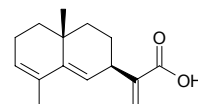
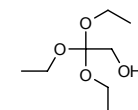
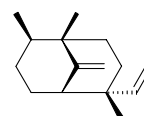
**21612 2-Tridecanone**

$C_{13}H_{26}O$ (198.35). **Source:** DENG XIN CAO *Juncus effusus*, MEI GUI HUA *Rosa rugosa*, TIAN SHAN HUA QIU *Sorbus tianschanica*, YAN CAO *Nicotiana tabacum*. **Ref:** 660.

**21613 (E,E,E)-1,3,5,11-Tridecatetraene-7,9-diyne**

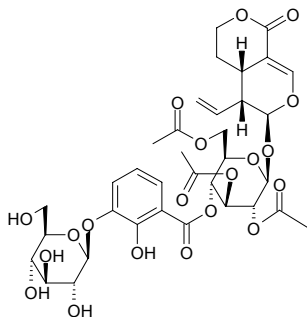
$C_{13}H_{12}$ (168.24). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.



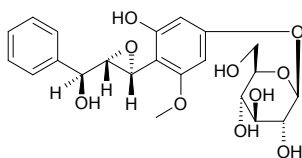
21614 (E,Z,E)-1,3,5,11-Tridecatetraene-7,9-diyneC₁₃H₁₂ (168.24). [Source](#): HONG HUA *Carthamus tinctorius*. [Ref](#): 660.**21615 (Z,E,E)-1,3,5,11-Tridecatetraene-7,9-diyne**C₁₃H₁₂ (168.24). [Source](#): HONG HUA *Carthamus tinctorius*. [Ref](#): 660.**21616 1,4,7-Tridecatriene**C₁₃H₂₂ (178.32). [Source](#): FENG DOU CAI *Petasites japonicus*. [Ref](#): 6.**21617 (E,E)-1,3,5-Tridecatriene-7,9,11-triyne**C₁₃H₁₀ (166.22). [Source](#): HONG HUA *Carthamus tinctorius*. [Ref](#): 660.**21618 (E,Z)-1,3,5-Tridecatriene-7,9,11-triyne**C₁₃H₁₀ (166.22). mp 88~93°C. [Source](#): HONG HUA *Carthamus tinctorius*, YANG SHI CAO *Achillea millefolium*. [Ref](#): 6, 660.**21619 (Z,E)-1,3,11-Tridecatriene-5,7,9-triyne**C₁₃H₁₀ (166.22). [Source](#): HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*, NIU BANG GEN *Arctium lappa*. [Ref](#): 6.**21620 (Z,Z)-1,3,11-Tridecatriene-5,7,9-triyne**C₁₃H₁₀ (166.22). [Source](#): HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*. [Ref](#): 660.**21621 Tridecene**[2437-56-1] C₁₃H₂₆ (182.35). mp -22.2°C, bp 102°C/10mmHg. [Source](#): SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. [Ref](#): 2.**21622 1-Tridecene-3,5,7,9,11-pentyne**C₁₃H₆ (162.19). [Source](#): BI MA GEN *Ricinus communis*, HONG TOU CAO *Blumea lacera*. [Ref](#): 6.**21623 2-n-Tridecyl-5,7-dihydroxy-6,8-dimethyl chromone**C₂₄H₃₆O₄ (388.55). [Source](#): KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. [Ref](#): 660.**21624 2-Tridecyl-1-methyl-4(1H)-quinolone**C₂₃H₃₅NO (341.54). [Source](#): WU ZHU YU *Evodia rutaecarpa*. [Ref](#): 877, 2085.**21625 2-Tridecyl-4(1H)-quinolone**C₂₂H₃₃NO (327.51). Amorphous powder, mp 132~134°C. [Source](#): WU ZHU YU *Evodia rutaecarpa*. [Ref](#): 9.**21626 E-1,7,11-Triene-4,5,9-trithiadodeca-9,9-dioxide**C₉H₁₄O₂S₃ (250.40). Yellowish oil liquid. [Source](#): DA SUAN *Allium sativum*. [Ref](#): 2118.**21627 3,5,11(13)-Trieneudesma-12-oic acid**C₁₃H₂₀O₂ (232.33). Colorless gum, [α]_D²⁰ = +7.5° (c = 0.4, CHCl₃). [Source](#): LIU LENG JU *Laggeta alata* (aerial parts: yield = 0.00031%dw). [Ref](#): 4709.**21628 2,2,2-Triethoxyl-ethanol**C₈H₁₈O₄ (178.23). [Source](#): SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. [Ref](#): 2.**21629 (-)-Trifara-9,14-diene**C₁₅H₂₄ (204.36). [Source](#): YE TAI *Trocholejeunea sandvicensis*. [Ref](#): 735.

21630 Trifloroside

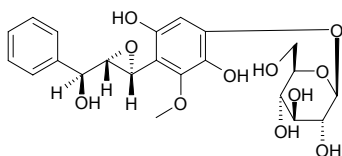
$C_{35}H_{42}O_{20}$ (782.71). Source: LONG DAN *Gentiana scabra*. Ref: 2.

**21631 Trifoalcanolioside I**

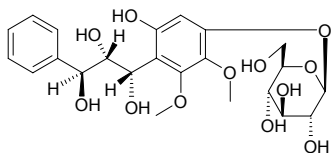
2-Methoxy-4,6-dihydroxy- α' -chalcanol- α,β -epoxide-4-*O*- β -D-glucopyranoside $C_{22}H_{26}O_{10}$ (450.45). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21632 Trifoalcanolioside II**

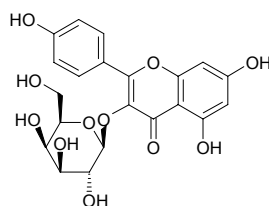
2-Methoxy-3,4,6-trihydroxy- α' -chalcanol- α,β -epoxide-4-*O*- β -D-glucopyranoside $C_{22}H_{26}O_{11}$ (466.45). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21633 Trifoalcanolioside III**

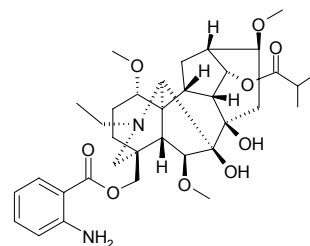
2,3-Dimethoxy-4,6, α,β -tetrahydroxy- α' -chalcanol-4-*O*- β -D-glucopyranoside $C_{23}H_{30}O_{12}$ (498.48). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21634 Trifolin**

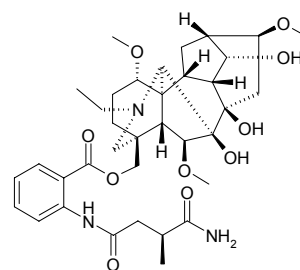
Kaempferol 3-*O*- β -D-galactopyranoside [23627-87-4] $C_{21}H_{20}O_{11}$ (448.39). mp 260°C. Pharm: Xanthinoxidase inhibitor (50 μ g/mL, InRt = 16.1%); antioxidant (DPPH scavenger, 250 μ mol/L, InRt = 4.5%; control Vitamin E, IC₅₀ = 8.3 μ mol/L)^[4722]. Source: CI BO *Rubus hirsutus*, DA JIN QIAN CAO *Lysimachia christinae*, GAO CONG ZHEN ZHU MEI *Sorbaria arborea*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HONG CHE ZHOU CAO *Trifolium pratense*, HU ZHI ZI *Lespedeza bicolor*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0031%dw)^[4723], LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN XIAO CAO *Trifolium repens*, SHI WEI *Pyrrosia lingua*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00072%dw)^[4722], TAO HUA *Prunus persica*, XI SHU *Camptotheca acuminata*, XIAO XUE REN SHEN *Lespedeza tomentosa*, ZHEN ZHU MEI *Sorbaria sorbifolia*. Ref: 2, 6, 660, 1841, 4097, 4544, 4722, 4723.

**21635 Trifoliolasine A**

$C_{35}H_{50}N_2O_9$ (642.80). Colorless granule crystals, mp 125~127°C, $[\alpha]_D^{20} = +44.2^\circ$ ($c = 0.53$, $CHCl_3$). Source: SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). Ref: 4272.

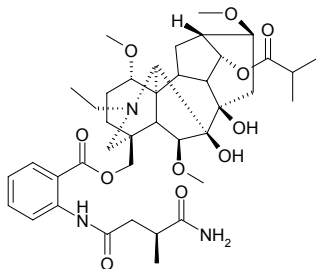
**21636 Trifoliolasine B**

$C_{36}H_{51}N_3O_{10}$ (685.82). White amorphous powder, mp 103~105°C, $[\alpha]_D^{20} = +36.6^\circ$ ($c = 0.48$, $CHCl_3$). Source: SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). Ref: 4272.

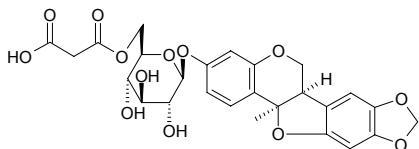


21637 Trifolioliasine C

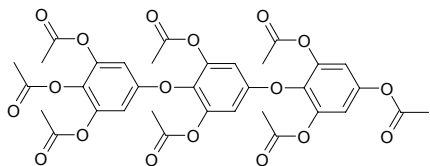
$C_{40}H_{58}N_3O_{11}$ (755.91). White amorphous powder, mp 117~118°C, $[\alpha]_D^{20} = +24.0^\circ$ ($c = 0.3$, $CHCl_3$). **Source:** SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). **Ref:** 4272.

**21638 Trifolirhizin-6''-O-malonate**

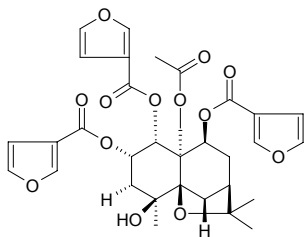
$C_{25}H_{24}O_{13}$ (532.46). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

**21639 Trifuhalol A octaacetate**

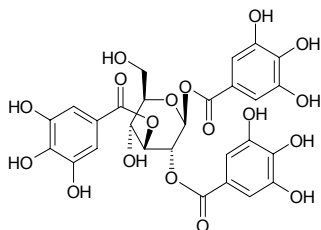
$C_{34}H_{30}O_{18}$ (726.61). **Source:** SHENG ZAO *Chorda filum*. **Ref:** 660.

**21640 1α,2α,9β-Tri-(β)-furoxyloxy-4β-hydroxy-15-acetoxy-β-dihydroagarofuran**

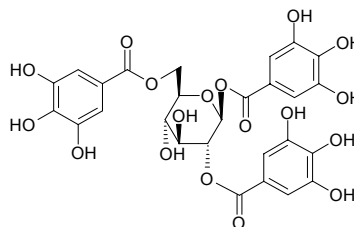
$C_{32}H_{34}O_{13}$ (626.62). Colorless gum, $[\alpha]_D^{20} = +73^\circ$ ($c = 1.04$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, Bel7402 liver carcinoma, $IC_{50} = 49.86\mu g/mL$, control Etoposide, $IC_{50} = 7.00\mu g/mL$). **Source:** *Euonymus nanoides* (seed). **Ref:** 4962.

**21641 1,2,3-Tri-O-galloyl-β-D-glucose**

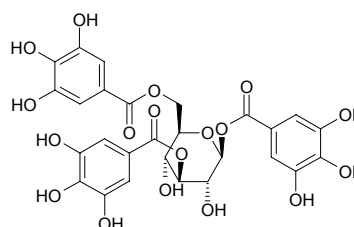
$C_{27}H_{24}O_{18}$ (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0060%fw), SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 4695.

**21642 1,2,6-Tri-O-galloyl-β-D-glucose**

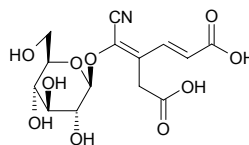
$C_{27}H_{24}O_{18}$ (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0058%fw), DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], TANG GU TE DA HUANG *Rheum tanguticum*. **Ref:** 2, 660, 4695.

**21643 1,3,6-Trigalloyl-β-D-glucose**

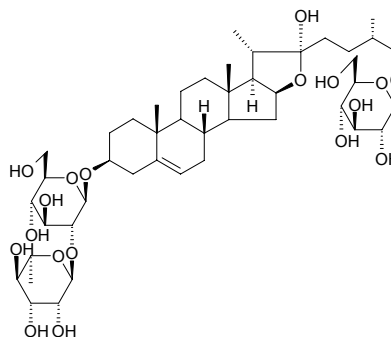
$C_{27}H_{24}O_{18}$ (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0014%fw), HE ZI *Terminalia chebula*. **Ref:** 4695.

**21644 Triglochinin**

$C_{14}H_{17}NO_{10}$ (359.25). **Pharm:** Toxin (ox, sheep). **Source:** HAI JIU CAI *Triglochin maritimum*, YUAN YE FENG LING CAO *Campanula rotundifolia*. **Ref:** 6, 658, 1521.

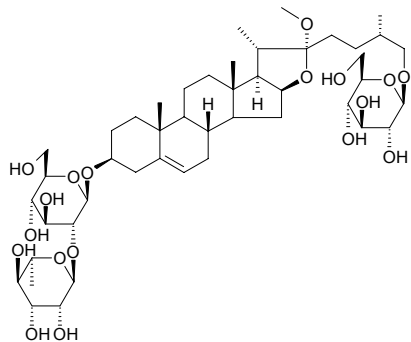
**21645 Trigofenoside A**

[99705-66-5] $C_{45}H_{74}O_{18}$ (903.08). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

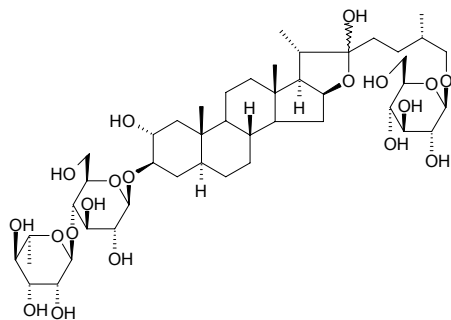


21646 Trigofenoside A₁

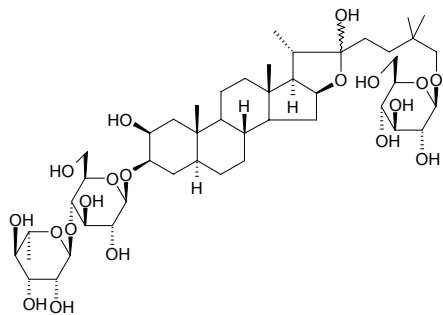
$C_{46}H_{76}O_{18}$ (917.11). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21647 Trigofenoside B**

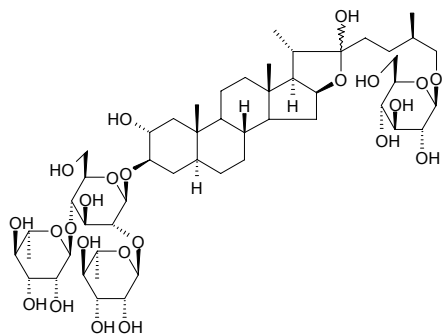
[99753-11-4] $C_{45}H_{76}O_{19}$ (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21648 Trigofenoside B₁**

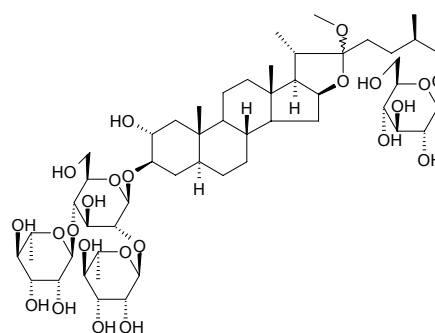
$C_{46}H_{78}O_{19}$ (935.12). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21649 Trigofenoside C**

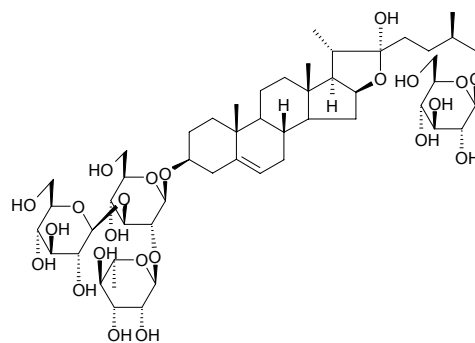
[99753-12-5] $C_{51}H_{86}O_{23}$ (1067.24). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21650 Trigofenoside C₁**

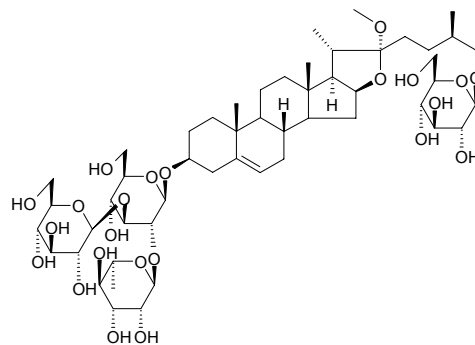
$C_{52}H_{88}O_{23}$ (1081.27). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21651 Trigofenoside D**

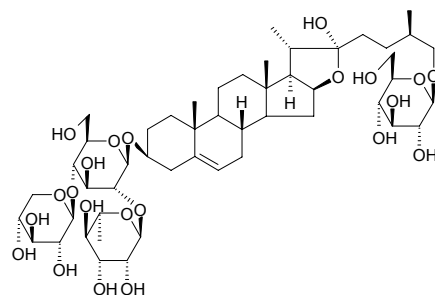
[99664-39-8] $C_{51}H_{84}O_{23}$ (1065.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21652 Trigofenoside D₁**

$C_{52}H_{86}O_{23}$ (1079.25). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

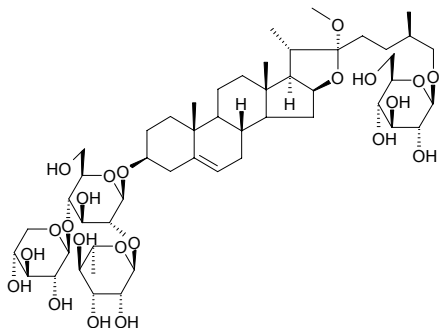
**21653 Trigofenoside E**

$C_{50}H_{82}O_{22}$ (1035.20). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

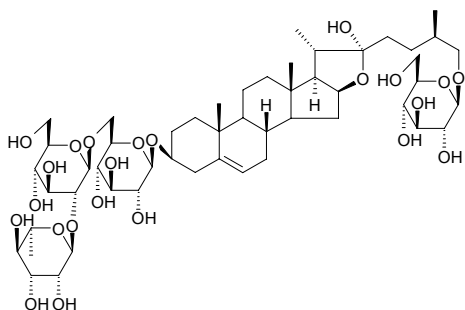


21654 Trigofenoside E₁

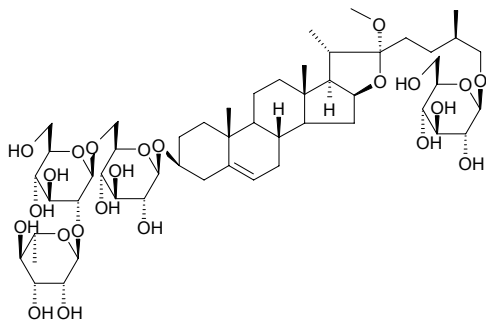
[191910-70-7] C₅₁H₈₄O₂₂ (1049.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21655 Trigofenoside F**

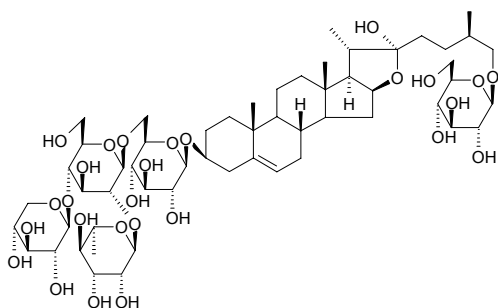
[94714-56-4] C₅₁H₈₄O₂₃ (1065.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21656 Trigofenoside F₁**

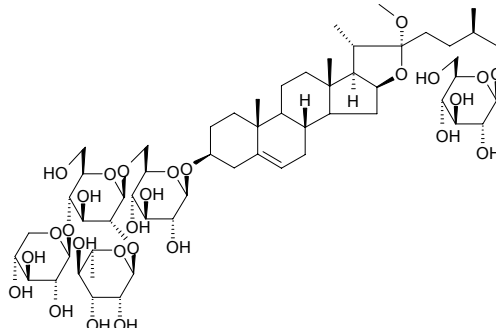
C₅₂H₈₆O₂₃ (1079.25). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21657 Trigofenoside G**

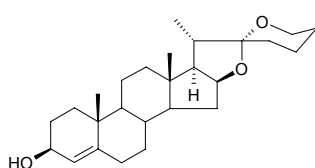
[94714-57-5] C₅₆H₉₂O₂₇ (1197.34). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21658 Trigofenoside G₁**

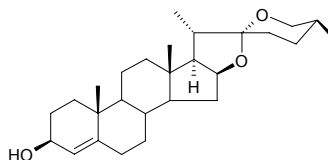
C₅₇H₉₄O₂₇ (1211.37). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21659 Trigonegenin A**

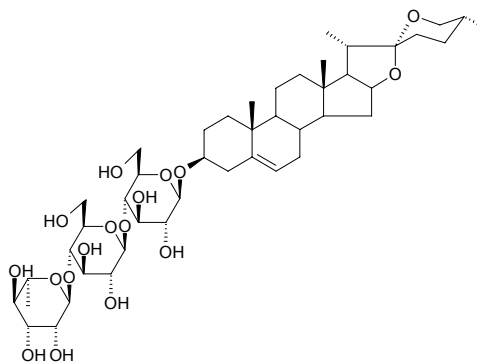
C₂₇H₄₂O₃ (414.63). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21660 Trigonegenin B**

C₂₇H₄₂O₃ (414.63). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

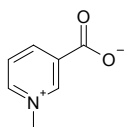
**21661 Trigonella-glucoside A**

Diosgenin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-glucopyranoside C₄₅H₇₂O₁₇ (885.07). White granular crystals, mp 208~211°C (dec), [α]_D²⁵ = -67.42° (c = 0.5636, MeOH). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2454.

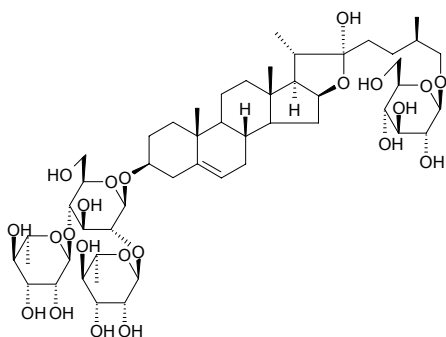


21662 Trigonelline

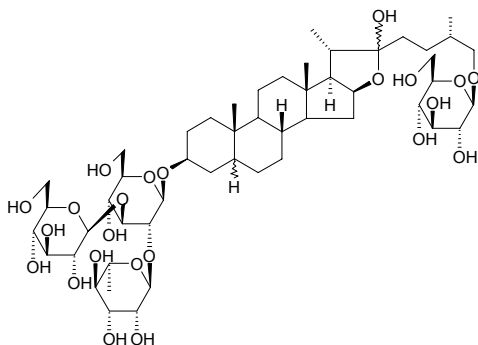
[535-83-1] $C_7H_7NO_2$ (137.14). mp 218°C (dec). **Pharm:** Antineoplastic (mus, leukemia P₃₈₈, 12.5mg/kg, biotic prolonged rate = 31%); inhibits growth of cell and tissue (animals and plants); causes glucopenia; LD₅₀ (rat, sc) = 5.0mg/kg. **Source:** BAI XIAN PI *Dictamnus dasycarpus*, BAN XIA *Pinellia ternata*, DONG GUA ZI *Benincasa hispida*, FAN QIE *Lycopersicon esculentum*, HU LU BA *Trigonella foenum-graecum* (dried ripe seed: content scope of 18 origins = 0.132%~0.343%, mean content = 0.261%^[5508]), HUO MA REN *Cannabis sativa*, MA HUA *Cannabis sativa*, MU XU *Medicago sativa*, NAN GUA *Cucurbita moschata*, QIE YE *Solanum melongena*, QIE ZI *Solanum melongena*, SANG YE *Morus alba*, SHI JUN ZI *Quisqualis indica*, SHI JUN ZI YE *Quisqualis indica*, WAN DOU *Pisum sativum*, XIANG SI ZI *Abrus precatorius*, YANG SHI CAO *Achillea millefolium*, ZI MO LI YE *Mirabilis jalapa*, ZI YUN YING *Astragalus sinicus*, *Strophanthus* sp. **Ref:** 6, 658, 5501, 5508.

**21663 Trigonelloside C**

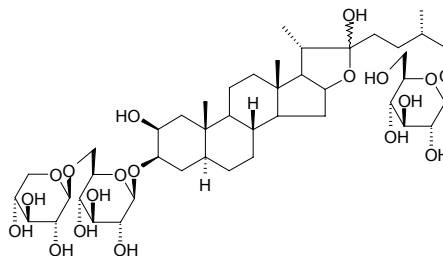
[60478-69-5] $C_{51}H_{84}O_{22}$ (1049.22). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21664 Trigoneoside 1**

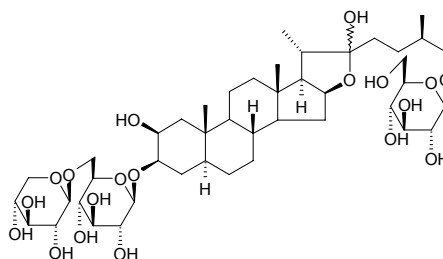
$C_{51}H_{86}O_{23}$ (1067.24). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21665 Trigoneoside Ia**

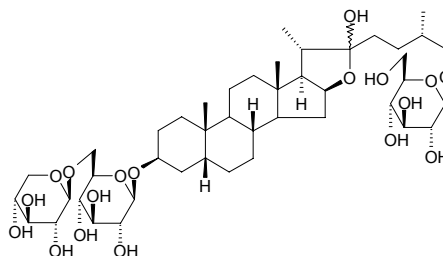
$C_{44}H_{74}O_{19}$ (907.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21666 Trigoneoside Ib**

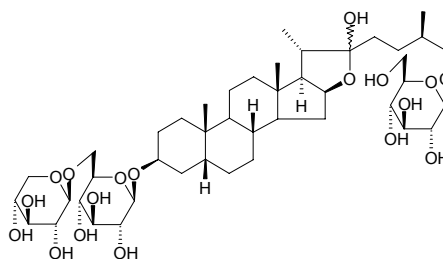
$C_{44}H_{74}O_{19}$ (907.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21667 Trigoneoside IIa**

$C_{44}H_{74}O_{18}$ (891.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

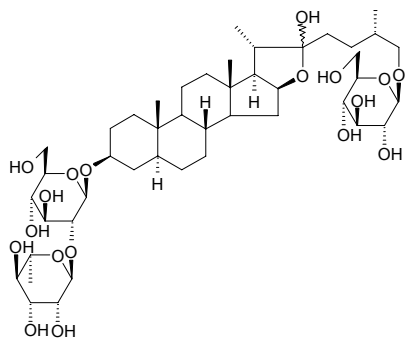
**21668 Trigoneoside IIb**

$C_{44}H_{74}O_{18}$ (891.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

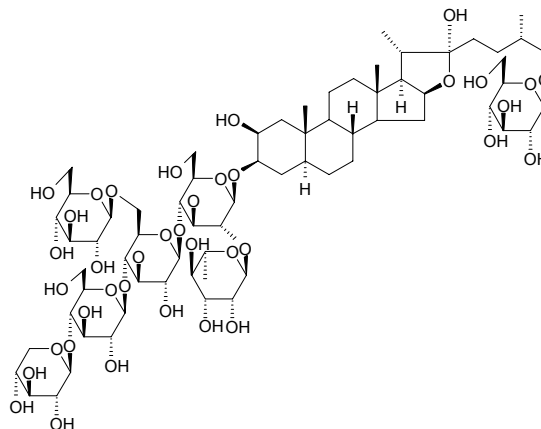


21669 Trigoneoside IIIa

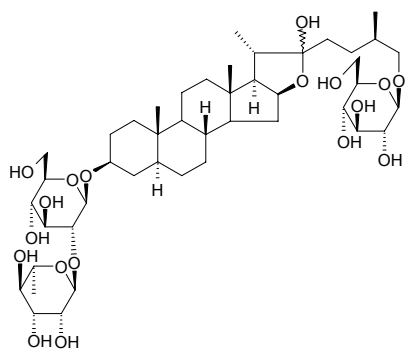
$C_{45}H_{76}O_{18}$ (905.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21672 Trigoneoside Vb**

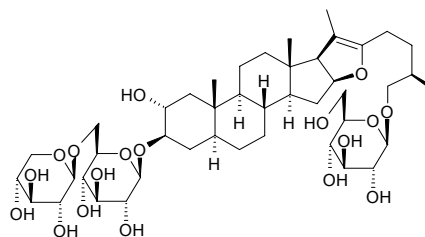
$C_{68}H_{114}O_{38}$ (1539.64). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21670 Trigoneoside IIIb**

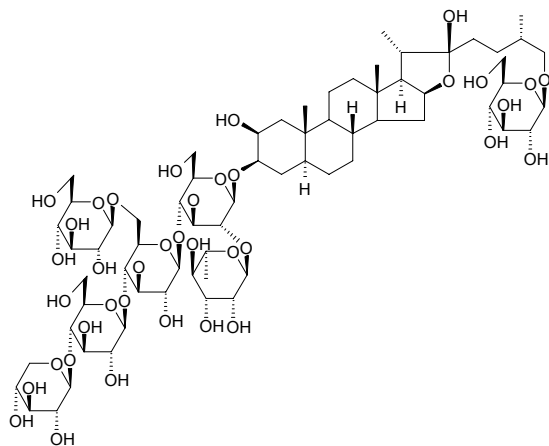
$C_{45}H_{76}O_{18}$ (905.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21673 Trigoneoside VIII**

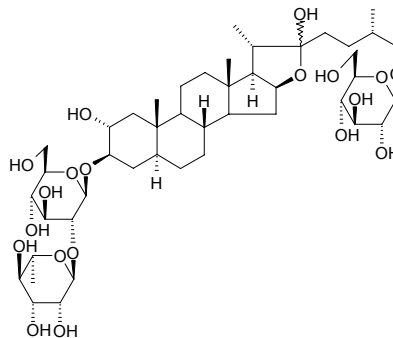
26-*O*- β -*D*-Glucopyranosyl-25(*R*)-5 α -furostan-20(22)-en-2 α ,3 β ,26-triol-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside $C_{44}H_{72}O_{18}$ (889.05). Colorless acicular crystals, mp 173~175°C. Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2132.

**21671 Trigoneoside Va**

$C_{68}H_{114}O_{38}$ (1539.64). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

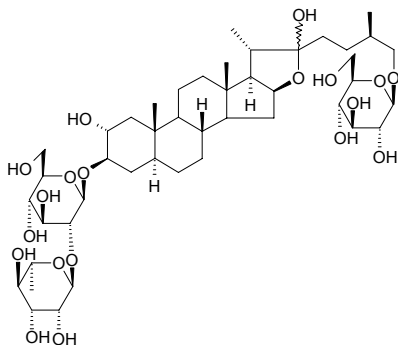
**21674 Trigoneoside Xa**

[290347-38-5] $C_{45}H_{76}O_{19}$ (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

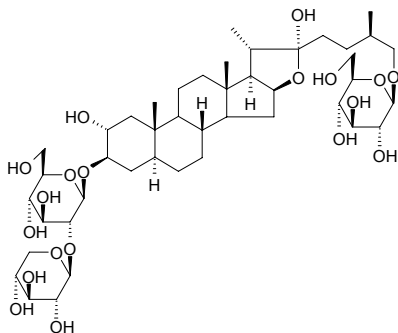


21675 Trioneoside Xb

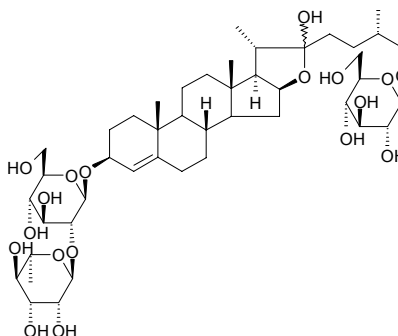
[290347-51-2] C₄₅H₇₆O₁₉ (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21676 Trioneoside XIb**

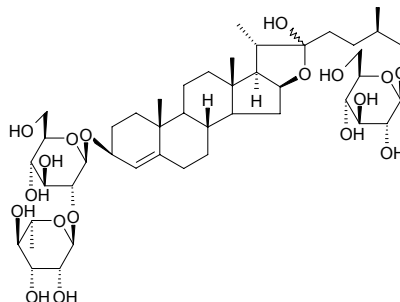
[290347-58-9] C₄₄H₇₄O₁₉ (907.07). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21677 Trioneoside XIIa**

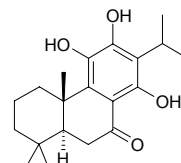
[290347-97-6] C₄₅H₇₄O₁₈ (903.08). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21678 Trioneoside XIIb**

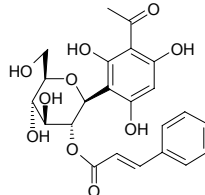
[290348-00-4] C₄₅H₇₄O₁₈ (903.08). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21679 11,12,14-Trihydroxyabieta-8,11,13-trien-7-one**

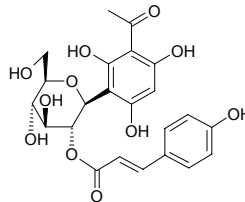
C₂₀H₂₈O₄ (332.44). Yellowish solid, [α]_D²³ = +92.0° (c = 0.4, CHCl₃). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4443.

**21680 2,4,6-Trihydroxyacetophenone 3-C-β-(2'-O-E-cinnamoyl)-glucopyranoside**

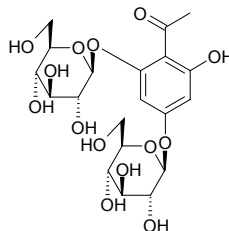
C₂₃H₂₄O₁₀ (460.44). White amorphous powder, [α]_D = -79° (c = 0.08, MeOH). Source: *Upuna borneensis* (stem). Ref: 3834.

**21681 2,4,6-Trihydroxyacetophenone 3-C-β-(2'-O-E-coumaroyl)-glucopyranoside**

C₂₃H₂₄O₁₁ (476.44). White amorphous powder, [α]_D = -104° (c = 0.10, MeOH). Source: *Upuna borneensis* (stem). Ref: 3834.

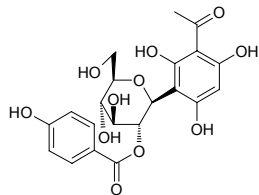
**21682 2,4,6-Trihydroxyacetophenone-2,4-di-O-β-D-glucopyranoside**

C₂₀H₂₈O₁₄ (492.44). White amorphous powder, [α]_D = -75.4° (c = 0.77, MeOH). Source: TU FU LING *Smilax glabra* (rhizome). Ref: 4589.

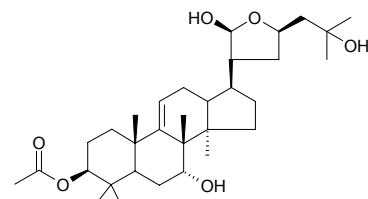


21683 2,4,6-Trihydroxyacetophenone 3-C- β -(2'-O-*p*-hydroxybenzoyl)-glucopyranoside

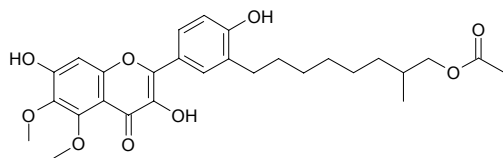
C₂₁H₂₂O₁₁ (450.40). White amorphous powder, $[\alpha]_D = -70^\circ$ ($c = 0.24$, MeOH).
 Source: *Upuna borneensis* (stem). Ref: 3834.

**21684 7 α ,21S,25-Trihydroxy-3 β -acetoxy-21S,23R-epoxy-9(11)-en-dammarane**

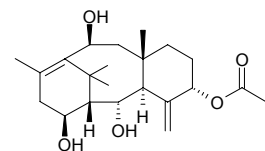
C₃₂H₅₂O₆ (532.77). Colorless acicular crystals (CHCl₃), mp 201°C, $[\alpha]_D^{21.5} = -32^\circ$ ($c = 1.0$, CHCl₃). Source: XIANG GANG JIAN MU *Dysoxylum hongkongense*. Ref: 422.

**21685 3,7,4'-Trihydroxy-3'-(8''-acetoxy-7''-methyloctyl)-5,6-dimethoxyflavone**

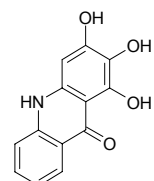
C₂₈H₃₄O₉ (514.58). Yellowish gummy solid, $[\alpha]_D^{24} = +11.8^\circ$ ($c = 0.06$, MeOH).
 Pharm: α -Glucosidase inhibitor (IC₅₀ = (757.8 \pm 65.5) μ mol/L, control Deoxynojirimycin, IC₅₀ = (425.6 \pm 8.1) μ mol/L). Source: JIA LIAN QIAO YE *Duranta repens*. Ref: 4050.

**21686 2 α ,10 β ,14 β -Trihydroxy-5 α -acetoxytaxa-4(20),11-diene**

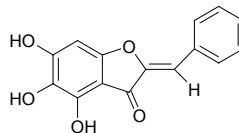
C₂₂H₃₄O₅ (378.51). mp 67–69°C, $[\alpha]_D = +39.2^\circ$ (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**21687 1,2,3-Trihydroxyacridone**

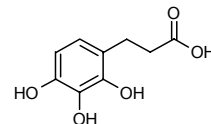
C₁₃H₉NO₄ (243.22). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**21688 4,5,6-Trihydroxy-aurone**

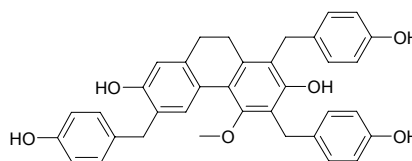
C₁₅H₁₀O₅ (270.24). Yellow acicular crystals (CHCl₃–MeOH), mp 190–192°C.
 Source: CAO CONG RONG *Boschniakia rossica*. Ref: 686.

**21689 2,3,4-Trihydroxy-benzenepropanoic acid**

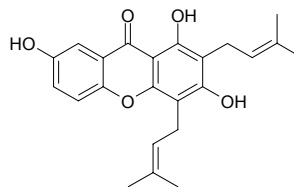
C₉H₁₀O₅ (198.18). Source: HUANG LIAN *Coptis chinensis*. Ref: 2.

**21690 1,3,6-Tri(4-hydroxybenzyl)-4-methoxydihydrophenanthrene-2,7-diol**

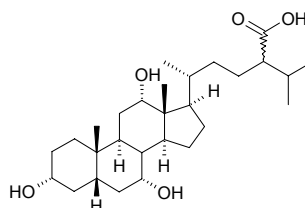
C₃₆H₃₂O₆ (560.65). Pale yellow amorphous powder. Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.

**21691 1,3,7-Trihydroxy-2,4-bis(3-methyl-2-butenyl)-xanthone**

C₂₃H₂₄O₅ (388.40). Pharm: Antioxidant (DPPH scavenger, 50 μ mol/L, ScRt = 20.7%; control BHT, 50 μ mol/L, ScRt = 51.7%, IC₅₀ = 28.9 μ mol/L). Source: HUANG NIU MU *Cratogeomys cochinchinense* (root). Ref: 4423.

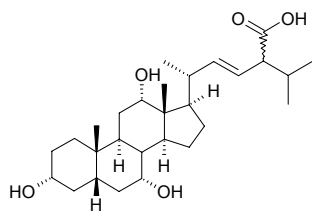
**21692 Trihydroxybufosterocholanic acid**

C₂₈H₄₈O₅ (464.69). mp 200°C. Source: CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

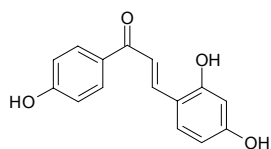


21693 Trihydroxybufosterolenic acid

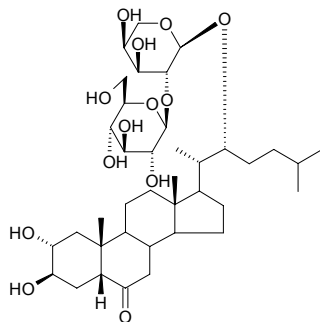
(3 α ,5 β ,7 α ,12 α ,24 ζ)-3,7,12-Trihydroxy-ergost-22-en-28-oic acid [53939-26-7]
 C₂₈H₄₆O₅ (462.68). mp 160°C. Source: CHAN CHU DAN *Bufo bufo*
gargarizans; *Bufo melanostictus*. Ref: 6.

**21694 2,4,4'-Trihydroxychalcone**

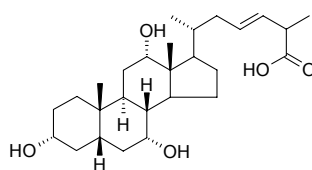
Isoliquiritigenin C₁₅H₁₂O₄ (256.26). Source: GAN CAO *Glycyrrhiza uralensis*.
Ref: 6.

**21695 2 α ,3 β -(22R)-Trihydroxycholestan-6-one-22-O- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside**

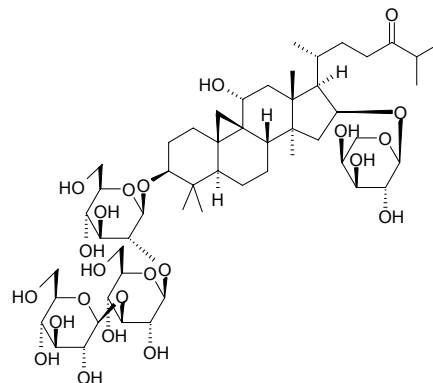
[235741-24-9] C₃₈H₆₄O₁₃ (728.93). Needles (MeOH), mp 219°C, [α]_D = -30.5° (c = 0.1, MeOH). Source: WU SU LI WA WEI *Lepisorus ussuriensis*.
Ref: 2294.

**21696 2²³-3 α ,7 α ,12 α -Trihydroxy coprostenic acid**

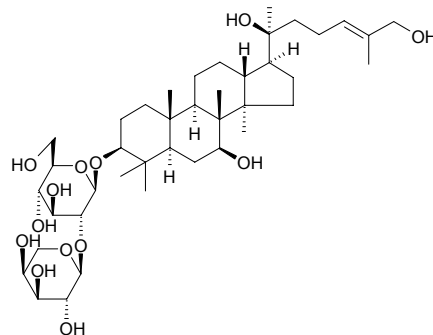
C₂₇H₄₄O₅ (448.65). mp 176–179°C. Source: CHAN CHU DAN *Bufo bufo*
gargarizans; *Bufo melanostictus*. Ref: 6.

**21697 3 β ,11 α ,16 β -Trihydroxycycloartane-24-one-3-O-[β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-16-O- α -L-arabinopyranoside**

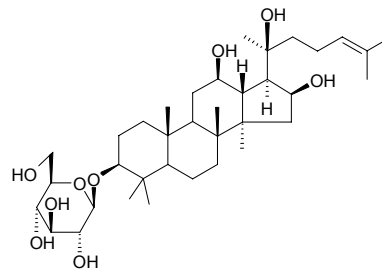
C₅₃H₈₈O₂₃ (1093.28). White amorphous powder, [α]_D²⁵ = +5.59° (c = 1.70, MeOH). Source: XIAN MAO *Curculigo orchoides*. Ref: 2485.

**21698 7 β ,20,26-Trihydroxy-(20S)-dammar-24E-en-3-O- α -L-arabinopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside**

C₄₁H₇₀O₁₃ (771.01). White crystalline powder (MeOH), mp 164–166°C, [α]_D²⁰ = +3.85° (c = 0.52, MeOH). Pharm: Antiviral (Vero cells, HSV-1, TC₅₀ = 1414.2 μ g/mL, Acyclovir, TC₅₀ > 1000 μ g/mL; IC₅₀ = 500 μ g/mL, Acyclovir, IC₅₀ = 2.60 μ g/mL). Source: JIA BEI MU *Bolbostemma paniculatum* (bulb).
Ref: 4977.

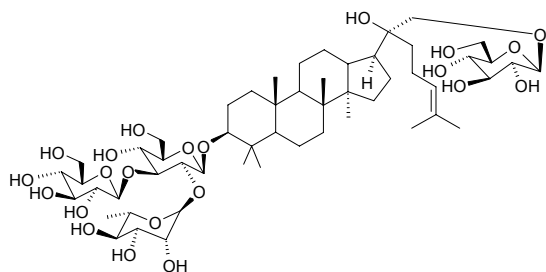
**21699 (20S)-12 β ,16 β -Trihydroxydammar-24-ene-3 β -O- β -glucopyranoside**

C₃₆H₆₂O₉ (638.89). Colorless crystals, mp >250°C, [α]_D²⁵ = +40° (c = 0.5, CH₂Cl₂).
Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.



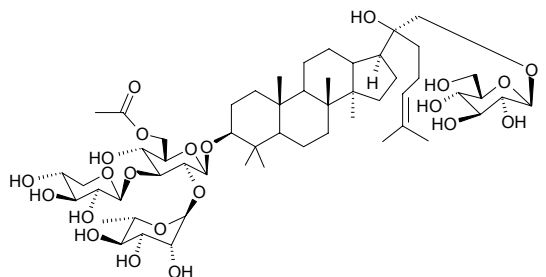
21700 3 β ,20S,21-Trihydroxydammar-24-ene 3-O-[[α -L-rhamnopyranosyl(1 \rightarrow 2)] β -D-glucopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosyl]-21-O- β -D-glucopyranoside

C₅₄H₉₀O₂₂ (1093.32). Amorphous powder, $[\alpha]_D^{20} = -1.9^\circ$ ($c = 1.29$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0055%dw). **Ref:** 4751.



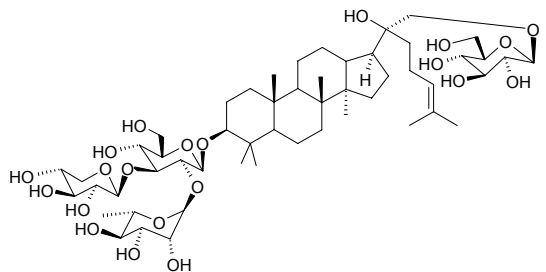
21701 3 β ,20S,21-Trihydroxydammar-24-ene 3-O-[[α -L-rhamnopyranosyl(1 \rightarrow 2)] β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-[6-O-acetylglucopyranosyl]-21-O- β -D-glucopyranoside

C₅₅H₉₂O₂₂ (1105.33). Amorphous powder, $[\alpha]_D^{20} = -2.6^\circ$ ($c = 0.97$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.005%dw). **Ref:** 4751.



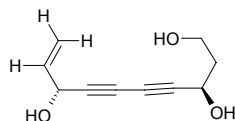
21702 3 β ,20S,21-Trihydroxydammar-24-ene 3-O-[[α -L-rhamnopyranosyl(1 \rightarrow 2)] β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosyl]-21-O- β -D-glucopyranoside

C₅₃H₉₀O₂₁ (1063.3). Amorphous powder, $[\alpha]_D^{20} = -6.6^\circ$ ($c = 0.69$, MeOH).
Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.015%dw). **Ref:** 4751.



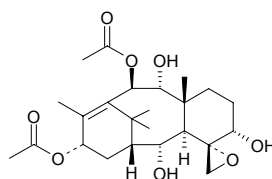
21703 1,3R,8R-Trihydroxydec-9-en-4,6-yne

C₁₀H₁₂O₃ (180.21). **Pharm:** 12-Lipoxygenase inhibitor (10 μ g/mL, InRt = 32.17%; 30 μ g/mL, InRt = 18.15%; control Baicalein, 10 μ g/mL, InRt = 56.23%). **Source:** DAN ZI HAO *Artemisia monosperma*. **Ref:** 5249.



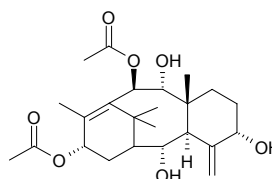
21704 2 α ,5 α ,9 α -Trihydroxy-10 β ,13 α -diacetoxy-4 β ,20-epoxytaxa-11-ene

C₂₄H₃₆O₈ (452.55). mp 216–218°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



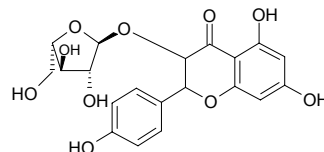
21705 2 α ,5 α ,9 α -Trihydroxy-10 β ,13 α -diacetoxytaxa-4(20),11-diene

Trihydroxydiacetoxytaxadiene C₂₄H₃₆O₇ (436.55). mp 186–188°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



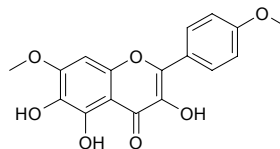
21706 5,7,4'-Trihydroxy dihydroflavonol-3-O- α -L-arabinofuranoside

C₂₀H₂₀O₁₀ (420.38). Yellow crystals (CHCl₃-MeOH), mp 120–122°C. **Source:** XI QUE MEI TENG *Sageretia gracilis*. **Ref:** 2501.



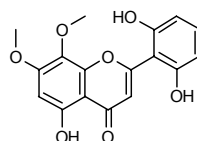
21707 3,5,6-Trihydroxy-7,4'-dimethoxyflavone

C₁₇H₁₄O₇ (330.30). Yellow crystals, mp 234–235°C, soluble in acetone and methanol, hardly soluble in chloroform and water. **Source:** FO SHOU *Citrus medica* var. *sarcodactylis*. **Ref:** 31.



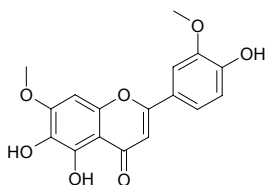
21708 5,2',6'-Trihydroxy-7,8-dimethoxyflavone

C₁₇H₁₄O₇ (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

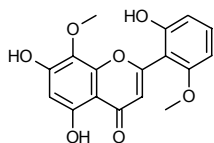


21709 5,6,4'-Trihydroxy-7,3'-dimethoxyflavone

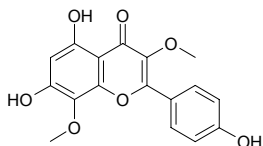
[25782-25-6] C₁₇H₁₄O₇ (330.30). Pale yellow powder, mp 268–270°C. **Pharm:** PFTase inhibitor (100µg/mL, InRt = 84%, IC₅₀ = 63µg/mL)^[5378]; cytotoxic (inhibits growth of hmn cancer cells: SW620, GI₅₀ = (5.0±0.4)µmol/L, control Adriamycin, GI₅₀ = 0.34µmol/L; A549, GI₅₀ = (11±3)µmol/L, Adriamycin, GI₅₀ = 0.21µmol/L; PC3, GI₅₀ = (3.4±0.3)µmol/L, Adriamycin, GI₅₀ = 0.39µmol/L; LOX-IMVI, GI₅₀ = (2.6±0.3)µmol/L, Adriamycin, GI₅₀ = 0.12µmol/L; HCT15, GI₅₀ = (4.1±0.3)µmol/L, Adriamycin, GI₅₀ = 0.84µmol/L)^[5378]; cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20µg/mL)^[5378]; angiogenesis inhibitor (chicken embryo chorioallantoic membrane (CAM) assay, 10µg, InRt = 55%)^[5378]; antineoplastic (nude mouse, hum,an tumor xenograft model, SW620 hmn colon cancer, 0.5% tween 80, ip 60mg/(kg·d) for 22 days, reduces tumor volume 14.6% at final day and no loss of body weight; good candidate as antitumor agents)^[5378]. **Source:** AI YE *Artemisia argyi*, TA HUA BAI LI XIANG *Thymus saturoide* (aerial parts), *Thymra* spp. **Ref:** 1521, 5378.

**21710 5,7,2'-Trihydroxy-8,6'-dimethoxyflavone**

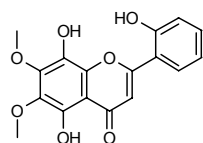
C₁₇H₁₄O₇ (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21711 5,7,4'-Trihydroxy-3,8-dimethoxyflavone**

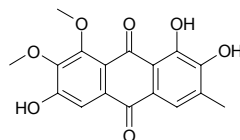
C₁₇H₁₄O₇ (330.30). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC₅₀ = (21.1±4.5)µg/mL; control NDGA, IC₅₀ = (0.7±0.3)µg/mL, Vitamin C, IC₅₀ = (1.9±0.7)µg/mL, Trolox, IC₅₀ = (1.4±0.5)µg/mL)^[3850]; cytotoxic (XTT assay, HL-60 cells, IC₅₀ = (36.7±4.4)µg/mL; control NDGA, IC₅₀ = (2.6±0.2)µg/mL, Vitamin C, IC₅₀ > 10.0µg/mL, Trolox, IC₅₀ > 10.0µg/mL)^[3850]. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf), SAN JIAO FEN YE JUE *Pityrogramma triangularis*, *Baccharis sarothroides*, *Gutierrezia microcephala*, *Cyanostegia angustifolia* (leaf), *Cyanostegia microphylla*, *Geraea canescens*. **Ref:** 1521, 3850.

**21712 5,8,2'-Trihydroxy-6,7-dimethoxyflavone**

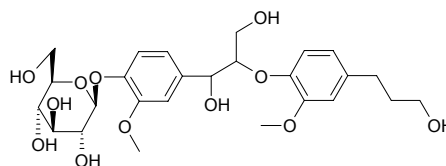
C₁₇H₁₄O₇ (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21713 1,2,6-Trihydroxy-7,8-dimethoxy-3-methylanthraquinone**

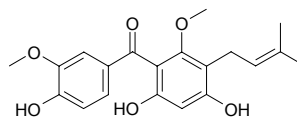
C₁₇H₁₄O₇ (330.3). Yellow needles (EtOAc-*n*-hexane), mp 271–273°C. **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC₅₀ > 100µmol/L). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**21714 7,9,9'-Trihydroxy-3,3'-dimethoxy-8-O-4'-neolignan-4-O-β-D-glucopyranoside**

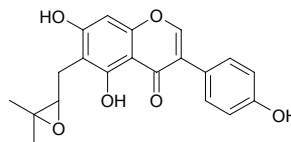
C₂₆H₃₆O₁₂ (540.57). [α]_D²⁵ = -68.6° (c = 0.11, MeOH). **Source:** SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535.

**21715 4,6,4'-Trihydroxy-2,3'-dimethoxy-3-prenylbenzophenone**

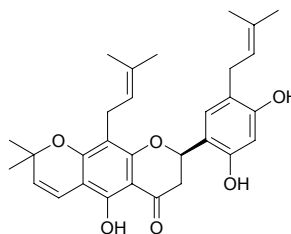
C₂₀H₂₂O₆ (358.39). Yellow oil. **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00052%dw). **Ref:** 4708.

**21716 5,7,4'-Trihydroxy-6-(3,3-dimethylallyloxiranylmethyl)isoflavone**

C₂₀H₁₈O₆ (354.36). Yellow amorphous powder, mp 252–254°C, [α]_D²⁰ = 10.8° (c = 0.1, MeOH). **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex: yield = 0.000008%fw). **Ref:** 2269.

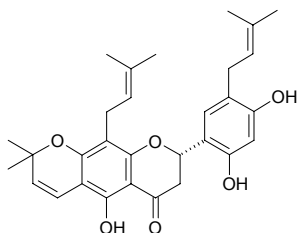
**21717 (2R)-5,2',4'-Trihydroxy-8,5'-di(3-methylbut-2-enyl)-6,7-(3,3-dimethylpyrano)flavanone**

C₃₀H₃₄O₆ (490.60). Yellow oil, [α]_D = +73.3° (c = 0.15, CHCl₃). **Source:** FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). **Ref:** 3500.



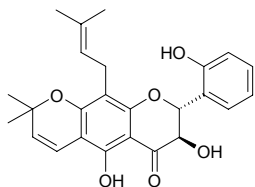
21718 (2S)-5,2',4'-Trihydroxy-8,5'-di(3-methylbut-2-enyl)-6,7-(3,3-dimethylpyrano)flavanone

C₃₀H₃₄O₆ (490.60). Yellow oil, $[\alpha]_D = -84.0^\circ$ ($c = 0.25$, CHCl₃). Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.



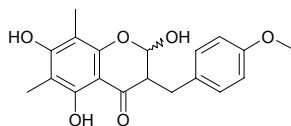
21719 2',3,5-Trihydroxy-6,7-(2'',2''-dimethylchromene)-8-(3''',3'''-dimethylallyl)-flavanone

Jayacanol C₂₅H₂₆O₆ (422.48). Viscous yellowish oil, $[\alpha]_D^{20} = -54.43^\circ$ ($c = 0.625$, CH₂Cl₂). Source: *Lonchocarpus atropurpureus*. Ref: 2423.



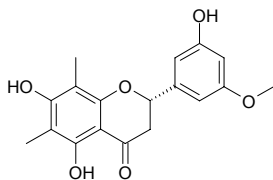
21720 2,5,7-Trihydroxy-6,8-dimethyl-3-(4'-methoxybenzyl)chroman-4-one

C₁₉H₂₀O₆ (344.37). Amorphous powder, $[\alpha]_D^{22} = -8^\circ$ ($c = 0.22$, MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 2044.



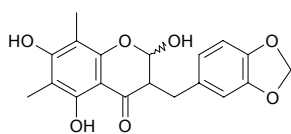
21721 2(S)-5,7,3'-Trihydroxy-6,8-dimethyl-5'-methoxy-flavanone

C₁₈H₁₈O₆ (330.34). Pale yellow powder, mp 202°C, $[\alpha]_D^{23} = -4.54^\circ$ ($c = 0.56$, MeOH). Source: QIAN LIE LIN MAO JUE *Dryopteris sublaeta*. Ref: 4869.



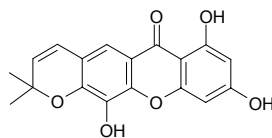
21722 2,5,7-Trihydroxy-6,8-dimethyl-3-(3',4'-methylenedioxybenzyl)-chroman-4-one

C₁₉H₁₈O₇ (358.35). Amorphous powder, $[\alpha]_D^{22} = -0.5^\circ$ ($c = 0.5$, MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 2044.



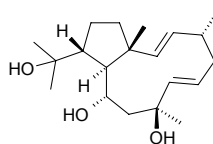
21723 1,3,5-Trihydroxy-13,13-dimethyl-2H-pyran[6,7-b]-xanthen-9-one

C₁₈H₁₄O₆ (326.31). Yellow solid, mp 275–277°C. Source: DAO NIAN ZI *Garcinia mangostana* (heartwood). Ref: 5311.



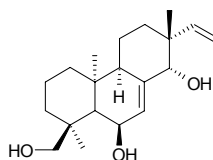
21724 8,10,18-Trihydroxy-2,6-dolabelladiene

C₂₀H₃₂O₃ (322.49). Colorless needles, mp 168–170°C, $[\alpha]_D^{25} = -22^\circ$ ($c = 0.5$, CHCl₃). Pharm: Anti-HSV-1 (Vero cells infected by HSV-1, 50 μmol/L, (81±4)% of cytopathic effect inhibition of herpes virus); cytotoxic inactive (200 μmol/L); HIV-1 RT inhibitor (40 μmol/L, InRt = 80%, positive control AZT, 0.01 μmol/L, InRt = 85%). Source: BA XI ZONG ZAO *Dictyota paffii*. Ref: 5023.



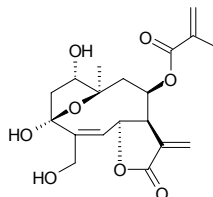
21725 6β,14α,18-Trihydroxy-9-epi-ent-pimara-7,15-diene

C₂₀H₃₂O₃ (320.48). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.



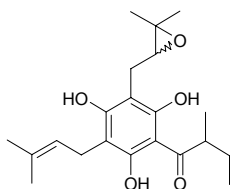
21726 1α,3α,15-Trihydroxy-3,10-epoxy-8β-O-methacryloyl-4,11-germacradiene,6α,12-olide

C₁₉H₂₄O₈ (380.40). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 5090.



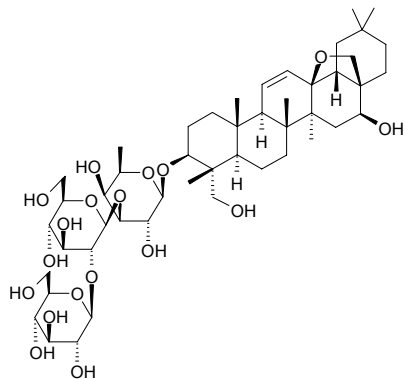
21727 1,3,5-Trihydroxy-6-[2''',3'''-epoxy-3'''-methyl-butyl]-2-[2''-methyl-butanoyl]-4-[3'-methyl-2'-butenyl]-benzene

$C_{21}H_{30}O_5$ (362.47). Pale yellow oil, $[\alpha]_D^{21} = +80^\circ$ ($c = 0.075$, $CHCl_3$). **Pharm:** Antibacterial (multidrug-resistant strains of *Staphylococcus aureus*: ATCC 25923, MIC = 32 μ g/mL, control Norfloxacin, MIC = 2 μ g/mL, Erythromycin, MIC = 0.25 μ g/mL, Tetracycline, MIC = 0.25 μ g/mL; SA-1199B(NorA), MIC = 16 μ g/mL, Norfloxacin, MIC = 32 μ g/mL, Erythromycin MIC = 0.25 μ g/mL, Tetracycline MIC = 0.25 μ g/mL; RN4220(MsrA), MIC = 16 μ g/mL, Norfloxacin, MIC = 2 μ g/mL, Erythromycin MIC = 128 μ g/mL, Tetracycline MIC = 0.25 μ g/mL; XU212(TetK, *mecA*), MIC = 16 μ g/mL, Norfloxacin, MIC = 16 μ g/mL, Erythromycin MIC > 256 μ g/mL, Tetracycline MIC = 128 μ g/mL). **Source:** DUO YE JIN SI TAO *Hypericum foliosum*. **Ref:** 5294.



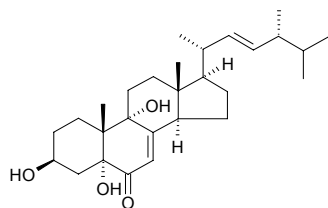
21728 3 β ,16 β ,23-Trihydroxy-13,28-epoxyolean-11-en-3 β -yl-[β -D-glucopyranosyl-(1 \rightarrow 2)]-[β -D-glucopyranosyl-(1 \rightarrow 3)]-[β -D-fucopyranoside

$C_{48}H_{78}O_{18}$ (943.15). Amorphous powder, $[\alpha]_D^{25} = +15.7^\circ$ ($c = 0.06$, MeOH). **Source:** GUAN MU CHAI HU *Bupleurum fruticosum*, ZHI BU LUO TUO CAI HU *Bupleurum gibraltarium* (root). **Ref:** 2247, 3980.



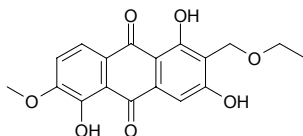
21729 3 β ,5 α ,9 α -Trihydroxy-(22E)-ergosta-7,22-dien-6-one

$C_{28}H_{44}O_4$ (444.66). **Source:** *Pleurotus eryngii*. **Ref:** 4183.



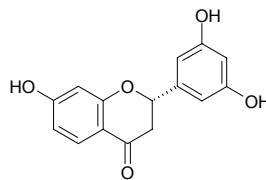
21730 1,3,5-Trihydroxy-2-ethoxymethyl-6-methoxy-anthraquinone

$C_{18}H_{16}O_7$ (344.32). Orange-red needles ($CHCl_3$), mp 189–191°C. **Source:** HONG YA DA JI *Knoxia valerianoides* (root). **Ref:** 4866.



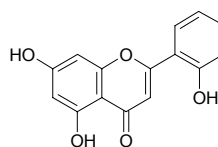
21731 7,3',5'-Trihydroxyflavanone

$C_{15}H_{12}O_5$ (272.26). Yellow powder, mp 223–225°C, $[\alpha]_D^{25} = -22.88^\circ$ ($c = 0.08$, acetone). **Source:** ZHONG JIAN JIN JI ER *Caragana intermedia*. **Ref:** 2472.



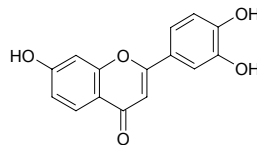
21732 5,7,2'-Trihydroxyflavone

[73046-40-9] $C_{15}H_{10}O_5$ (270.24). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.



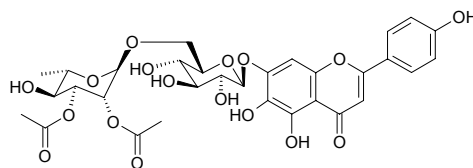
21733 7,3',4'-Trihydroxyflavone

[2150-11-0] $C_{15}H_{10}O_5$ (270.24). **Source:** BAI CI HUA ZI *Sophora viciifolia*. **Ref:** 561.



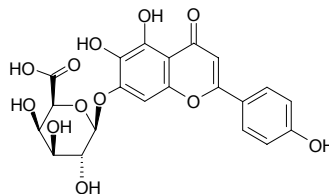
21734 5,6,4'-Trihydroxyflavone 7-O- α -L-2,3-di-O-acetyl-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside

$C_{31}H_{34}O_{17}$ (678.61). Yellow powder (MeOH), mp 168–171°C, $[\alpha]_D^{27} = -55.4^\circ$ ($c = 0.9$, MeOH). **Pharm:** Neurite outgrowth enhancer inactive (PC12D cells, nerve growth factor-mediated, 10–100 μ mol/L). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.001%). **Ref:** 4745.



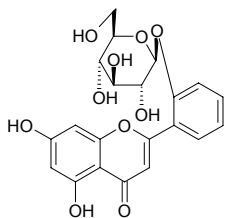
21735 5,6,4'-Trihydroxyflavone 7-O- β -D-galactonic acid

$C_{21}H_{18}O_{12}$ (462.37). Yellow powder. **Source:** DENG ZHAN XI XIN *Erigeron breviscapus*. **Ref:** 785.

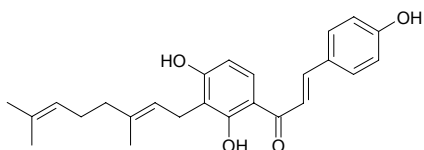


21736 5,7,2'-Trihydroxyflavone 2'-O-β-D-glucopyranoside

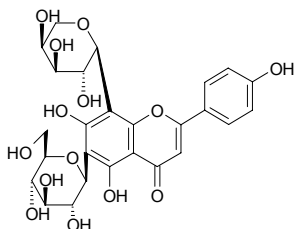
C₂₁H₂₀O₁₀ (432.39). Yellow needles (MeOH), mp 252~253°C (dec), [α]_D²⁵ = -67.6° (c = 0.042, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root). Ref: 2072.

**21737 2',4,4'-Trihydroxy-3'-geranylchalcone**

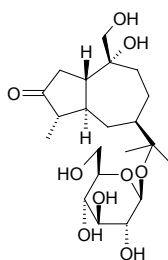
C₂₅H₂₈O₄ (392.50). mp 141~143°C. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5μg/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1μg/spot, control Vitamin E, 1μg/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21738 5,7,4'-Trihydroxy-6-C-glucoside-8-C-arabinoside flavone**

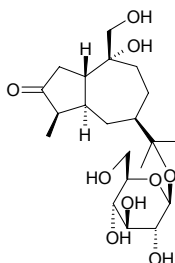
C₂₆H₂₈O₁₄ (564.50). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21739 (1S,4S,5S,7R,10R)-10,11,14-Trihydroxyguai-3-one 11-O-β-D-glucopyranoside**

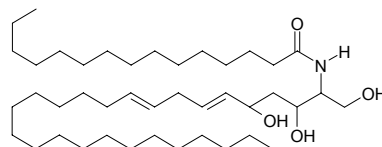
C₂₁H₃₆O₉ (432.52). Amorphous powder, [α]_D²² = +3° (c = 1.2, MeOH). Source: CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310, 4348.

**21740 (1S,4S,5S,7R,10S)-10,11,14-Trihydroxyguai-3-one 11-O-β-D-glucopyranoside**

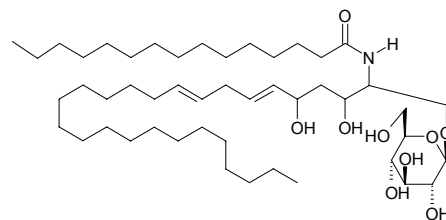
C₂₁H₃₆O₉ (432.52). Amorphous powder, [α]_D²² = +1° (c = 0.7, MeOH). Source: CANG ZHU *Atractylodes lancea*. Ref: 4348.

**21741 1,3,5-Trihydroxy-2-hexadecanoylamino-(6E,9E)-heptacosdiene**

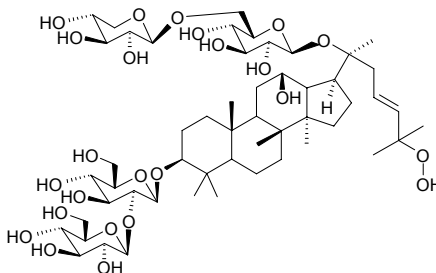
C₄₂H₈₁NO₄ (664.12). Colorless gummy solid, [α]_D²⁵ = -26.2° (c = 0.10, pyridine). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 4249.

**21742 1,3,5-Trihydroxy-2-hexadecanoylamino-(6E,9E)-heptacosdiene-1-O-glucopyranoside**

C₄₈H₉₁NO₉ (826.26). Colorless gummy solid, [α]_D²⁵ = -33.2° (c = 0.12, pyridine). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 4249.

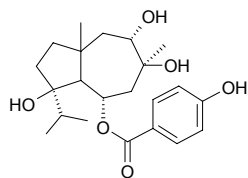
**21743 3β,12,20S-Trihydroxy-25-hydroperoxydammar-23-ene 3-O-[[β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl]-20-O-[[β-D-xylopyranosyl(1→6)]-β-D-glucopyranoside]**

C₅₃H₉₀O₂₄ (1111.29). Amorphous powder, [α]_D²⁰ = +20.3° (c = 0.83, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0015%dw). Ref: 4751.

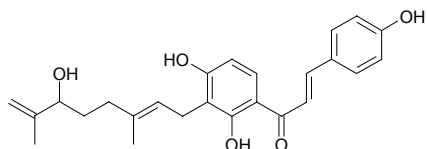


21744 4 β ,8 β ,9 α -Trihydroxy-6 α -*p*-hydroxybenzoyloxydaucane

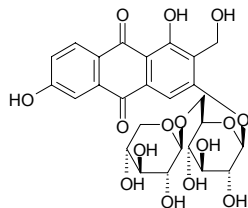
C₂₂H₃₂O₆ (392.50). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**21745 2',4,4'-Trihydroxy-3'-[6-hydroxy-3,7-dimethyl-2(*E*),7-octadienyl] chalcone**

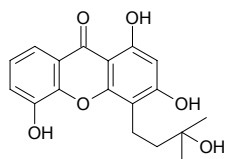
C₂₅H₂₈O₅ (408.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5 μ g/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1 μ g/spot, control Vitamin E, 1 μ g/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21746 1,3,6-Trihydroxy-2-hydroxymethyl-9,10-anthraquinone 3-O- β -Primeveroside**

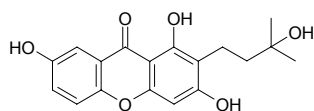
C₂₆H₂₈O₁₅ (580.50). Yellow powder. Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (leaf and stem). Ref: 4219.

**21747 1,3,5-Trihydroxy-4-(3-hydroxy-3-methylbutyl)xanthone**

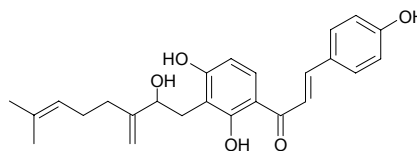
C₁₈H₁₈O₆ (330.34). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21748 1,3,7-Trihydroxy-2-(3-hydroxy-3-methylbutyl)xanthone**

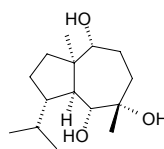
C₁₈H₁₈O₆ (330.34). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21749 2',4',4'-Trihydroxy-3'-[2-hydroxy-7-methyl-3-methylene-6-octae-nyl]chalcone**

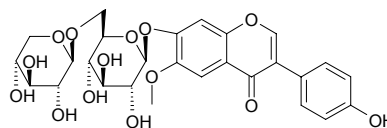
C₂₅H₂₈O₅ (408.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5 μ g/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1 μ g/spot, control Vitamin E, 1 μ g/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21750 6,7,10-Trihydroxyisodaucane**

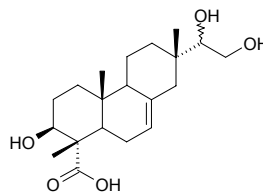
C₁₅H₂₀O₃ (256.39). Colorless crystals (*n*-hexane:CH₂Cl₂ = 7:3), mp 143–145°C, [α]_D²² = -5.6° (*c* = 0.55, MeOH). Source: *Reneilmia cincinnata* (fruits). Ref: 2383.

**21751 4',6,7-Trihydroxyisoflavone-6-methylether-7-O- β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside**

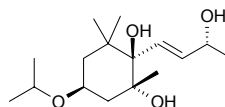
C₂₇H₃₀O₁₄ (578.53). Colorless needles (MeOH), mp > 300°C, [α]_D²⁵ = -54.3° (*c* = 0.15, DMSO). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2281.

**21752 3 β ,15 α ,16-Trihydroxy-isopimaric acid**

C₂₀H₃₂O₅ (352.48). White acicular crystals, mp 256–258°C, [α]_D²¹ = +27.9° (*c* = 0.05, methanol). Source: WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. Ref: 88.

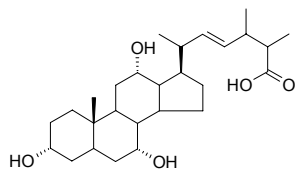
**21753 (3*S*,5*R*,6*R*,7*E*,9*R*)-5,6,9-Trihydroxy-3-isopropoxy-7-megastigmene**

C₁₆H₃₀O₄ (286.42). Colorless oil, [α]_D²⁵ = -11.7° (*c* = 0.02, MeOH). Source: PA KE YE XIANG SHU *Cestrum parqui* (fresh leaf). Ref: 5327.

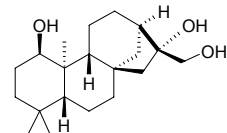


21754 Trihydroxy-isosterocholenic acid

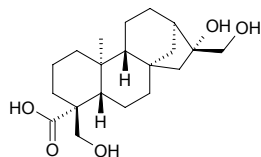
$C_{27}H_{44}O_5$ (448.65). mp 227°C. Source: CHAN CHU DAN *Bufo bufo* gargarizans; *Bufo melanostictus*. Ref: 6.

**21755 1 β ,16 α ,17-Trihydroxy-ent-kaurane**

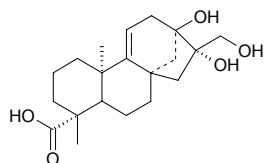
$C_{20}H_{34}O_3$ (322.49). White solid, mp 182°C, $[\alpha]_D^{25} = +6.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, $ED_{50} = 0.002\mu\text{g/mL}$, $0.003\mu\text{g/mL}$, $0.0005\mu\text{g/mL}$, $0.001\mu\text{g/mL}$, $0.004\mu\text{g/mL}$, $0.008\mu\text{g/mL}$, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21756 ent-16 β ,17,18-Trihydroxy-kauran-19-oic acid**

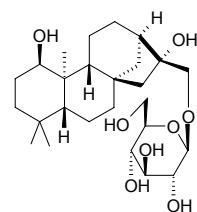
$C_{20}H_{30}O_5$ (352.48). White acicular crystals, mp 244–246°C, solving in methanol and acetone, hard to solve in water. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 2174.

**21757 13,16 α ,17-Trihydroxy-ent-9(11)-kauren-19-oic acid**

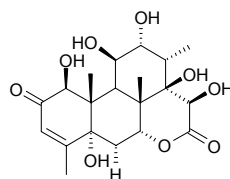
$C_{20}H_{30}O_5$ (350.46). White amorphous solid, $[\alpha]_D^{20} = +67.4^\circ$ ($c = 0.5$, $\text{CHCl}_3:\text{MeOH} = 1:1$). Source: MU LAN⁽³⁾ *Bruguiera gymnorrhiza* (stem; yield = 0.000084%). Ref: 4770.

**21758 1 β ,16 α ,17-Trihydroxy-ent-kaur-17-O- β -D-glucopyranoside**

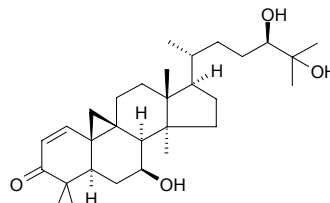
$C_{26}H_{44}O_8$ (484.64). White amorphous solid, mp 270°C (dec), $[\alpha]_D^{25} = +9.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, $ED_{50} = 0.002\mu\text{g/mL}$, $0.003\mu\text{g/mL}$, $0.0005\mu\text{g/mL}$, $0.001\mu\text{g/mL}$, $0.004\mu\text{g/mL}$, $0.008\mu\text{g/mL}$, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21759 5 α ,14 β ,15 β -Trihydroxyklaineaneone**

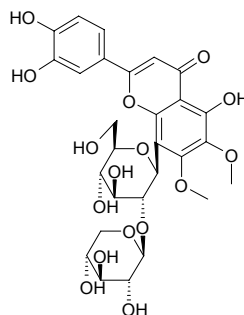
$C_{20}H_{28}O_9$ (412.44). Source: *Eurycoma* sp. Ref: 4556.

**21760 (24R)-7 β ,24,25-Trihydroxy-9,19-cycloart-1-en-3-one**

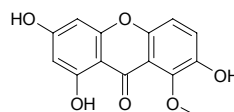
Sphaerophysone A $C_{30}H_{48}O_4$ (472.71). Colorless needles (MeOH), mp 178–180°C. Source: KU MA DOU *Swainsonia salsula* [Syn. *Sphaerophysa salsula*]. Ref: 2512.

**21761 5,3',4'-Trihydroxyl-6,7-dimethoxyl-8-C-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl flavone**

$C_{28}H_{32}O_{16}$ (624.56). Yellow amorphous powder, mp 192–194°C, $[\alpha]_D^{25} = -22.9^\circ$ ($c = 0.46$, MeOH). Source: SHI DAN CAO *Coraliodiscus flabellatus* [Syn. *Didissandra flabellata*] (whole herb). Ref: 4830.

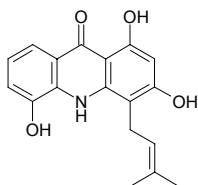
**21762 1,3,7-Trihydroxyl-8-methoxyxanthone**

$C_{14}H_{10}O_6$ (274.23). Yellow long acicular crystals, mp 224–225°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.

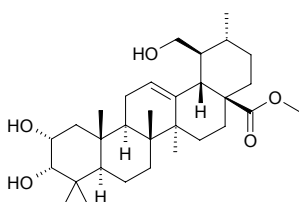


21763 1,3,5-Trihydroxy-4-prenylacridone

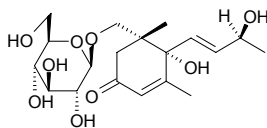
1,3,5-Trihydroxy-4-(γ , γ -dimethylallyl)acridone C₁₈H₁₇NO₄ (311.34). Yellow powder (MeOH), mp 250°C, $[\alpha]_D^{25} = +51.6^\circ$ ($c = 0.62$, MeOH). **Pharm:** α -Glucosidase inhibitor (IC₅₀ = (17±1)μmol/L, control Deoxyynojirimycin, IC₅₀ = (330±8)mmol/L); antioxidant (DPPH Scavenger, IC₅₀ = (119±4)μmol/L, control BHA, IC₅₀ = (44.20±0.02)μmol/L). **Source:** *Oriopsis glaberrima* (stem cortex: yield = 0.00063%dw). **Ref:** 1590.

**21764 2 α ,3 α ,24-Trihydroxyursa-12-en-28-oate**

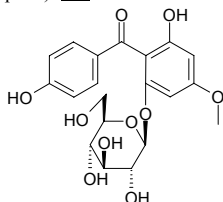
C₃₁H₅₀O₅ (502.74). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.

**21765 (1R,6R,9S)-6,9,11-Trihydroxy-4,7-megastigmadien-3-one 11-O-β-D-glucopyranoside**

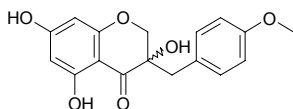
C₁₉H₃₀O₉ (402.45). White powder, $[\alpha]_D = +85.9^\circ$ ($c = 0.32$, MeOH). **Pharm:** Antibacterial (*Helicobacter pylori* NCTC11637, MIC = 100μg/mL, NCTC11916, MIC = 100μg/mL, OCO1, MIC = 100μg/mL, control Hinokitiol (Nat. or Syn.), MIC = 100μg/mL, 100μg/mL, 50μg/mL, respectively). **Source:** OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). **Ref:** 4477.

**21766 2,4',6-Trihydroxy-4-methoxybenzophenone-2-O-glucoside**

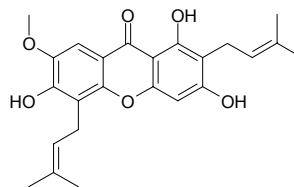
C₂₀H₂₂O₁₀ (422.39). Light-yellow powder, mp 133~135°C, $[\alpha]_D^{21} = -23^\circ$ ($c = 0.1$, MeOH). **Source:** ZONG BAO GE NI DI MU *Gnidia involucrata* (aerial parts). **Ref:** 3996.

**21767 3,5,7-Trihydroxy-3-(4'-methoxybenzyl)-4-chromanone**

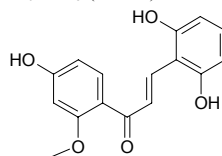
C₁₇H₁₆O₆ (316.31). Brown gum. **Source:** HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). **Ref:** 3368.

**21768 1,3,6-Trihydroxy-7-methoxy-2,5-bis(3-methyl-2-butenyl)-xanthone**

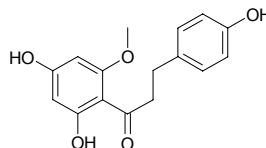
C₂₄H₂₆O₆ (410.47). **Pharm:** Antioxidant (DPPH scavenger, IC₅₀ > 200μmol/L, control BHT, IC₅₀ = 5.10μg/mL; crude latex of *Garcinia cowa*, IC₅₀ = 13.20μg/mL)^[5281]. **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 4422, 5281.

**21769 7,2',6'-Trihydroxy-5-methoxychalcone**

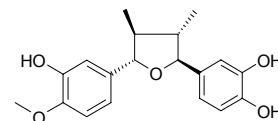
C₁₆H₁₄O₅ (286.29). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21770 4,2',4'-Trihydroxy-6'-methoxydihydrochalcone**

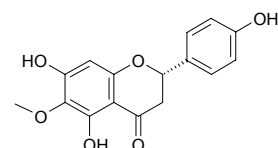
C₁₆H₁₆O₅ (288.30). Pale amorphous solid. **Source:** CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). **Ref:** 5096.

**21771 (7S,8S,7'S,8'S)-3,3',4'-Trihydroxy-4-methoxy-7,7'-epoxyignan**

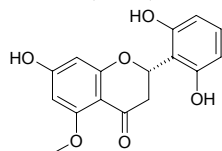
C₁₉H₂₂O₅ (330.38). Reddish-brown powder, $[\alpha]_D^{25} = -60^\circ$ ($c = 0.001$, MeOH). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC₅₀ = (1.3±0.4)μg/mL; control NDGA, IC₅₀ = (0.7±0.3)μg/mL, Vitamin C, IC₅₀ = (1.9±0.7)μg/mL, Trolox, IC₅₀ = (1.4±0.5)μg/mL); cytotoxic (XTT assay, HL-60 cells, IC₅₀ = (17.3±1.5)μg/mL; control NDGA, IC₅₀ = (2.6±0.2)μg/mL, Vitamin C, IC₅₀ > 10.0μg/mL, Trolox, IC₅₀ > 10.0μg/mL). **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 3850.

**21772 5,7,4'-Trihydroxy-6-methoxyflavanone**

C₁₆H₁₄O₆ (302.29). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

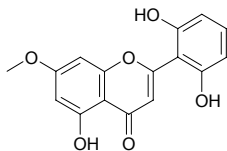
**21773 7,2',6'-Trihydroxy-5-methoxyflavanone**

C₁₆H₁₄O₆ (302.39). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

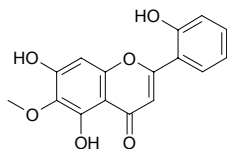


21774 5,2',6'-Trihydroxy-7-methoxyflavone

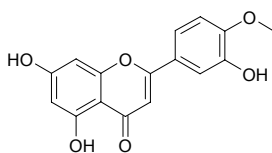
$C_{16}H_{12}O_6$ (300.27). Yellow needles, mp 210~211°C (MeOH). Source: SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 4149.

**21775 5,7,2'-Trihydroxy-6-methoxyflavone**

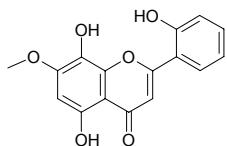
$C_{16}H_{12}O_6$ (300.27). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660.

**21776 5,7,3'-Trihydroxy-4'-methoxyflavone**

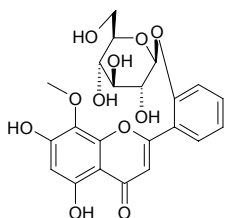
$C_{16}H_{12}O_6$ (300.27). Pharm: Antitubercular (*Mycobacterium tuberculosis*, MIC > 128µg/mL, cytotoxic, Vero cells, IC₅₀ = 65.0µg/mL, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3300). Source: SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). Ref: 4986.

**21777 5,8,2'-Trihydroxy-7-methoxyflavone**

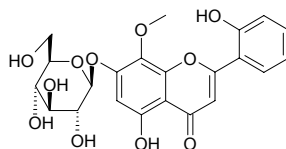
$C_{16}H_{12}O_6$ (300.27). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21778 5,7,2'-Trihydroxy-8-methoxyflavone 2'-O-β-D-glucopyranoside**

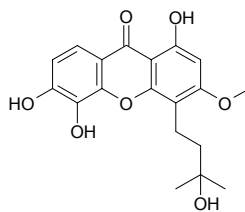
$C_{22}H_{22}O_{11}$ (462.41). Yellow needles (MeOH), mp 266~267°C (dec), $[\alpha]_D^{25} = -51.3$ ($c = 0.048$, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0025%dw). Ref: 2072.

**21779 5,7,2'-Trihydroxy-8-methoxyflavone 7-O-β-D-glucopyranoside**

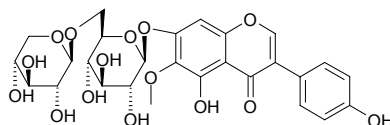
$C_{22}H_{22}O_{11}$ (462.41). Yellow needles (MeOH), mp 263~264°C (dec), $[\alpha]_D^{25} = -77.5^\circ$ ($c = 0.035$, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0006%dw). Ref: 2072.

**21780 1,5,6-Trihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)xanthone**

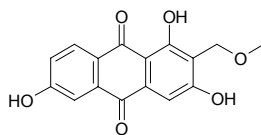
$C_{19}H_{20}O_7$ (360.37). Pale yellow amorphous powder. Source: YUN NAN SHAN ZHU ZI *Garcinia cowa* (stem: yield = 0.0010%dw). Ref: 916.

**21781 4',5,7-Trihydroxy-6-methoxyisoflavone 7-O-β-D-xylopyranoside (1→6)-β-D-glucopyranoside**

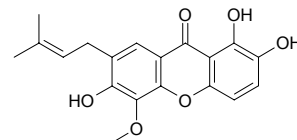
$C_{27}H_{30}O_{15}$ (594.53). Pale yellowish powder (MeOH), mp = > 300°C, $[\alpha]_D^{25} = -43.3^\circ$ ($c = 0.15$, DMSO). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2281.

**21782 1,3,6-Trihydroxy-2-methoxymethyl-9,10-anthraquinone**

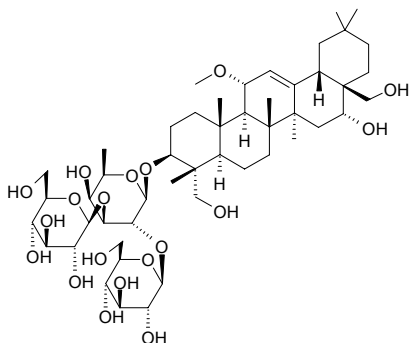
$C_{16}H_{12}O_6$ (300.27). Orange powder. Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (leaf and stem). Ref: 4219.

**21783 1,2,6-Trihydroxy-5-methoxy-7-(3-methylbut-2-enyl)xanthone**

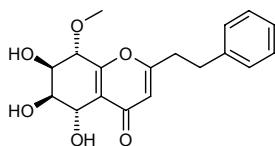
$C_{19}H_{18}O_6$ (342.35). Yellow needles, mp 220~222°C. Pharm: Neurite outgrowth activity (NGF-mediated, PC12D cells, EC = 10-30µmol/L). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 3473.



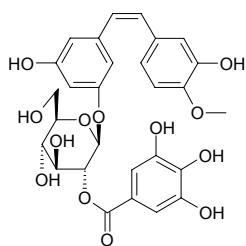
21784 16 α ,23,28-Trihydroxy-11 α -methoxyolean-12-en-3 β -yl- β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-fucopyranoside
C₄₉H₈₂O₁₉ (975.19). Source: GUAN MU CHAI HU *Bupleurum fruticosum*.
Ref: 2247.



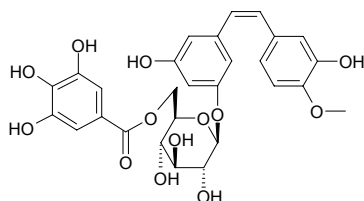
21785 5 α ,6 β ,7 β -Trihydroxy-8 α -methoxy-2-(2-phenylethyl)-5,6,7,8-tetrahydro chromone
C₁₈H₂₀O₆ (332.36). White powder, mp 130~135°C, [α]_D = +1.94°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



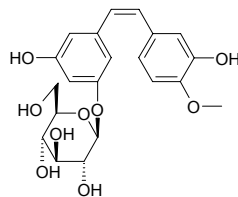
21786 *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- β -D-(2''-O-galloyl) glucopyranoside
C₂₈H₂₈O₁₃ (572.53). Source: ZHANG YE DA HUANG *Rheum palmatum*. Ref: 660.



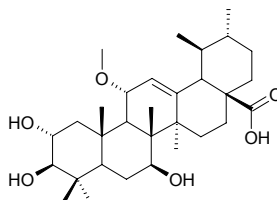
21787 *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- β -D-(6''-O-galloyl) glucopyranoside
C₂₈H₂₈O₁₃ (572.53). Source: ZHANG YE DA HUANG *Rheum palmatum*.
Ref: 660.



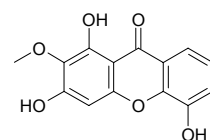
21788 *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- β -D-glucopyranoside
C₂₁H₂₄O₉ (420.42). Source: ZHANG YE DA HUANG *Rheum palmatum*. Ref: 660.



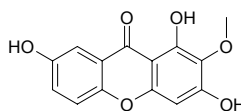
21789 2 α ,3 β ,7 β -Trihydroxy-11 α -methoxyurs-12-en-28-oic acid
C₃₁H₅₀O₆ (518.74). Source: DUN XING CHI AN YE *Eucalyptus camaldulensis* var. *obtus* (fresh leaf). Ref: 3993.



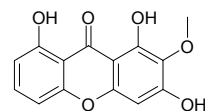
21790 1,3,5-Trihydroxy-2-methoxyxanthone
C₁₄H₁₀O₆ (274.23). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26, MIC₈₀ = 31 μ g/mL, control Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus flavus* IHEM37.19, MIC₈₀ = 31 μ g/mL, Amphotericin B, MIC₈₀ = 8 μ g/mL; *Aspergillus niger* IHEM2951, MIC₈₀ = 62 μ g/mL, Amphotericin B, MIC₈₀ = 16 μ g/mL; *Aspergillus terreus* 5029.2000, MIC₈₀ = 125 μ g/mL; Amphotericin B, MIC₈₀ = 16 μ g/mL; *Candida albicans* ATCC663.90, MIC₈₀ = 62 μ g/mL; Amphotericin B, MIC₈₀ = 1 μ g/mL). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). Ref: 4995.



21791 1,3,7-Trihydroxy-2-methoxyxanthone
C₁₄H₁₀O₆ (274.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

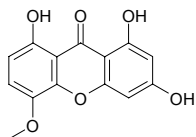


21792 1,3,8-Trihydroxy-2-methoxyxanthone
C₁₄H₁₀O₆ (274.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.

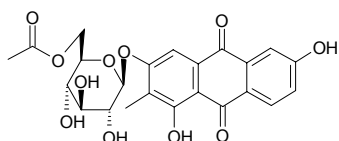


21793 1,3,8-Trihydroxy-5-methoxyxanthone

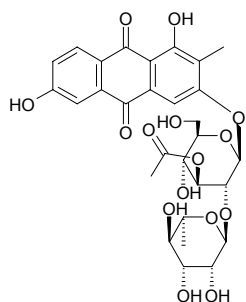
$C_{14}H_{10}O_6$ (274.23). Yellow needles, mp 262–264°C (sub.). Source: CHUAN DONG ZHANG YA CAI *Swertia davidii*. Ref: 2214.

**21794 1,3,6-Trihydroxy-2-methyl-9,10-anthra-quinone-3-O-(6'-O-acetyl)-β-D-glucoside**

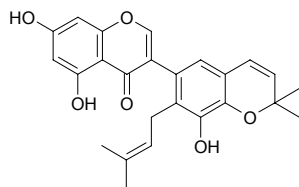
$C_{23}H_{22}O_{11}$ (474.43). Yellow crystals powder (methanol), mp 263–264°C; yellow needles (MeOH), mp 268–269°C. Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 8, 174, 660.

**21795 1,3,6-Trihydroxy-2-methylanthraquinone-3-O-α-rhamnosyl (1→2)-3'-O-acetylglucoside**

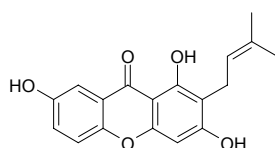
$C_{29}H_{32}O_{15}$ (620.57). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**21796 5,7,3'-Trihydroxy-2'-(3-methylbut-2-enyl)-4',5'-(3,3-dimethylpyrano)isoflavone**

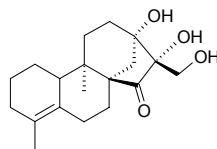
$C_{25}H_{24}O_6$ (420.47). Amorphous yellow solid. Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.

**21797 1,3,7-Trihydroxy-2-(3-methylbut-2-enyl)xanthone**

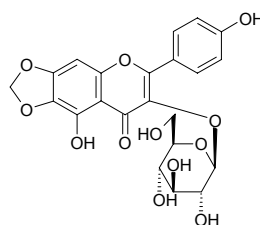
$C_{18}H_{16}O_5$ (312.33). Pharm: Cytotoxic (HSC-2 cells, $CC_{50} > 0.64$ mmol/L; HGF, $CC_{50} > 0.64$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root): yield = 0.00057%dw). Ref: 3025.

**21798 13α,16α,17-Trihydroxy-9α-methyl-19,20-di-nor-kauran-4-en-15-one**

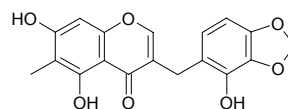
$C_{19}H_{28}O_4$ (320.43). Pale-yellow crystals, mp 100–103°C, $[\alpha]_D^{25} = +23.3^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, $ED_{50} = 0.002$ μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21799 3,5,4'-Trihydroxy-6,7-methylenedioxyflavone-3-O-β-D-glucopyranoside**

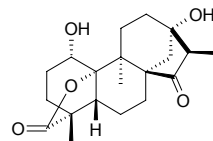
$C_{22}H_{20}O_{12}$ (476.40). Source: LIAO LAN YE *Polygonum tinctorium*. Ref: 660.

**21800 5,7,2'-Trihydroxy-6-methyl-3-(3',4'-methylenedioxybenzyl) chromone**

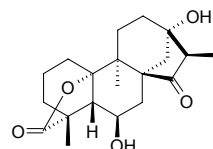
$C_{18}H_{14}O_7$ (342.31). Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 4663.

**21801 1α,10α,13α-Trihydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid γ-lactone**

$C_{20}H_{28}O_5$ (348.44). White amorphous solid, mp 187–200°C, $[\alpha]_D^{25} = +23.0^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, $ED_{50} = 0.002$ μg/mL, 0.003μg/mL, 0.0005μg/mL, 0.001μg/mL, 0.004μg/mL, 0.008μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

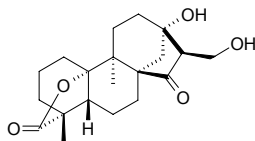
**21802 6β,10α,13α-Trihydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid (19,10)-lactone**

$C_{20}H_{28}O_5$ (348.44). White amorphous solid, mp 167–170°C, $[\alpha]_D^{25} = +18.0^\circ$ ($c = 0.1$, MeOH). Source: *Parinari sprucei* (leaf). Ref: 4991.



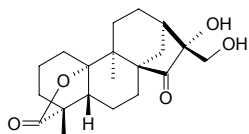
21803 10 α ,13 α ,17-Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone

C₂₀H₂₈O₅ (348.44). White amorphous solid, mp 193~200°C (dec), [α]_D²⁵ = +24.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC, ED₅₀ = 10~20 μ g/mL; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



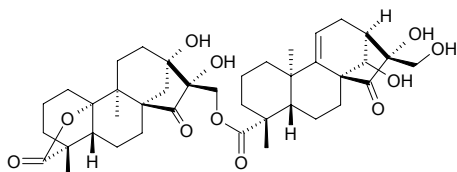
21804 10 α ,16 α ,17-Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone

C₂₀H₂₈O₅ (348.44). White crystals, mp 95°C, [α]_D²⁵ = +16.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



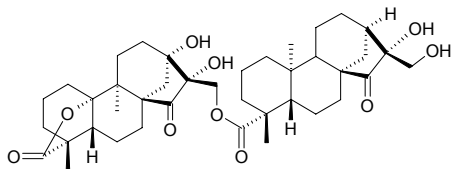
21805 10 α ,13 α ,16 α -Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone-17-yl-14' α ,16' α ,17'-trihydroxy-15'-oxo-ent-kaur-11'-en-19'-oate

C₄₀H₅₄O₁₁ (710.87). White amorphous solid, mp 175~180°C, [α]_D²⁵ = +28.3° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL and 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



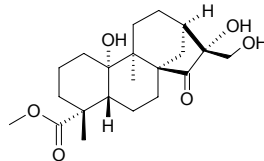
21806 10 α ,13 α ,16 α -Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone-17-yl-16' α ,17'-dihydroxy-15'-oxo-ent-kaur-19'-oate

C₄₀H₅₆O₁₀ (696.89). White crystals, mp 100~104°C, [α]_D²⁵ = +11.3° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



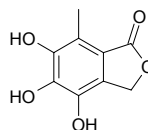
21807 10 α ,16 α ,17-Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid methyl ester

C₂₁H₃₂O₆ (380.49). White solid, mp 103~108°C, [α]_D²⁵ = +23.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED₅₀ = 0.002 μ g/mL, 0.003 μ g/mL, 0.0005 μ g/mL, 0.001 μ g/mL, 0.004 μ g/mL, 0.008 μ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



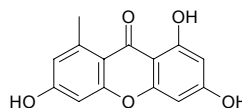
21808 4,5,6-Trihydroxy-7-methylphthalide

C₉H₈O₅ (196.16). White transparent crystalline solid, mp 249~250°C. **Pharm:** Antioxidant (DPPH scavenger, 25 μ g/mL, ScRt = 95%; control BHT, 25 μ g/mL, ScRt = 18.6%); antioxidant (TBARS assay, inhibits peroxidation of linolenic acid, 37mg/mL, InRt = 62%, control BHT, 37mg/mL, InRt = 73.9%). **Source:** fungus *Epicoccum* sp. **Ref:** 5445.



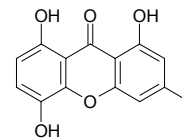
21809 1,3,6-Trihydroxy-8-methylxanthone

C₁₄H₁₀O₅ (258.23). Yellow powder, mp 226~228°C. **Source:** HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). **Ref:** 3368.



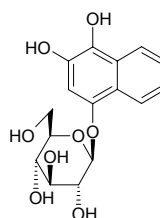
21810 1,5,8-Trihydroxy-3-methylxanthone

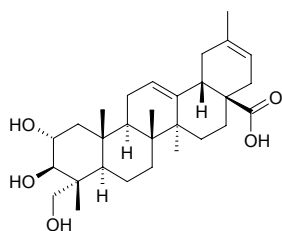
C₁₄H₁₀O₅ (258.23). Yellow needles (MeOH), mp 276.5~278°C. **Source:** RI BEN XIAO HE YI *Pyrenula japonica*. **Ref:** 2362.



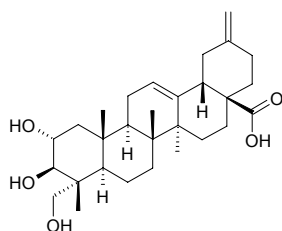
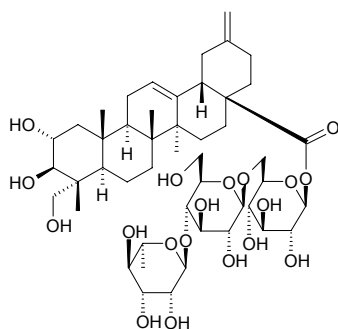
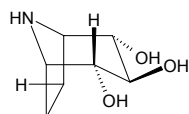
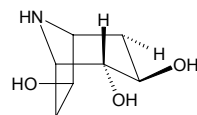
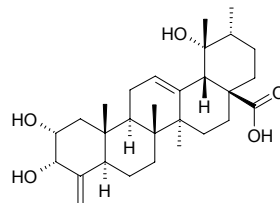
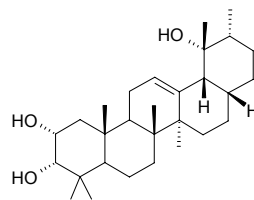
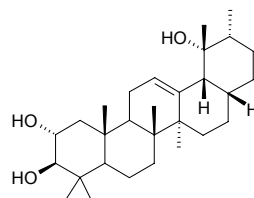
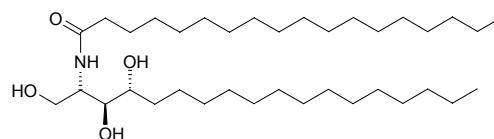
21811 1,2,4-Trihydroxynaphthalene-4-glucoside

C₁₆H₁₈O₈ (338.32). **Source:** FENG XIAN *Impatiens balsamina*. **Ref:** 6.

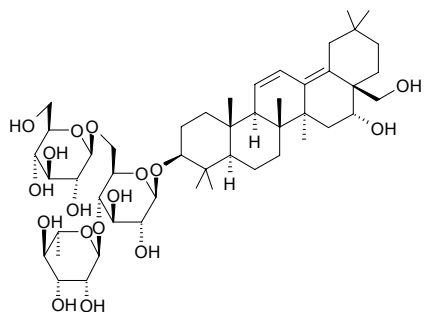


21812 2 α ,3 β ,23-Trihydroxy-30-noroleana-12,20(21)-dien-28-oic acidC₂₉H₄₄O₅ (472.67). Amorphous solid, [α]_D²⁷ = +72.0° (*c* = 0.10, MeOH).Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.**21813 2 α ,3 β ,23-Trihydroxy-30-noroleana-12,20(29)-dien-28-oic acid**C₂₉H₄₄O₅ (472.67). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref:

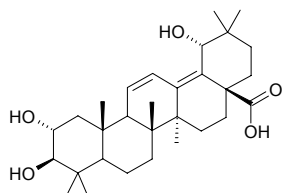
4545.

**21814 2 α ,3 β ,23-Trihydroxy-30-norolean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester**C₄₇H₇₄O₁₉ (943.10). Source: SAN YE MU TONG *Akebia trifoliata* (stem).Ref: 4545.**21815 2 α ,3 β ,4 α -Trihydroxynortropane**C₇H₁₃NO₃ (159.19). Colorless powder, [α]_D = 0° (*c* = 0.40, H₂O). Pharm: α -Glucosidase inhibitor (IC₅₀ = 15mmol/L, control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). Source: SANG SHI *Morus alba*.Ref: 4161.**21816 2 α ,3 β ,6-*exo*-Trihydroxynortropane**C₇H₁₃NO₃ (159.19). Colorless powder, [α]_D = -27.3° (*c* = 0.55, H₂O). Pharm: α -Glucosidase inhibitor (IC₅₀ = 25mmol/L, control 1-Deoxynojirimucin, IC₅₀ = 0.98mmol/L, Fagoming, IC₅₀ = 15mmol/L). Source: SANG SHI *Morus alba*.Ref: 4161.**21817 2 α ,3 α ,19 α -Trihydroxy-24-norurs-4(23),12-dien-28-oic acid**C₂₉H₄₄O₅ (472.67). White powder, mp 234~236°C, [α]_D²⁵ = +73.0° (*c* = 0.05,MeOH). Source: YANG TI *Rumex japonicus* (stem). Ref: 4541.**21818 2 α ,3 α ,19 α -Trihydroxy-28-norurs-12-ene**C₂₉H₄₈O₃ (444.70). Amorphous powder, mp [α]_D²⁰ = +8° (*c* = 0.125, MeOH).Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.**21819 2 α ,3 β ,19 α -Trihydroxy-28-norurs-12-ene**C₂₉H₄₈O₃ (444.70). Amorphous powder, mp [α]_D²⁰ = -14° (*c* = 0.125, MeOH).Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.**21820 (2S,3S,4R)-N-[2-(1,3,4-Trihydroxy-octadecanyl)]-octadecamide**C₃₆H₇₃NO₄ (583.99). White amorphous powder, mp 113~115°C, [α]_D²⁰ =+13.2° (*c* = 0.2, pyridine). Source: *Lophytum* sp. Ref: 4885.

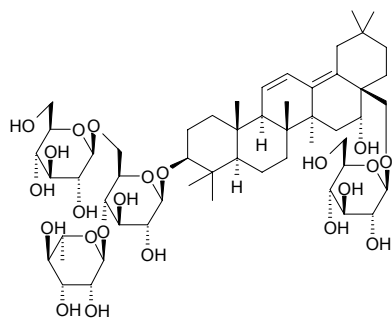
21821 3 β ,16 α ,28-Trihydroxyolean-11,13(18)-dien-3 β -yl- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside
 C₄₈H₇₈O₁₇ (927.15). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



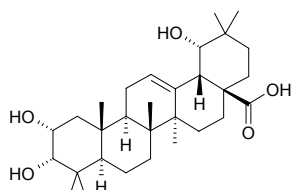
21822 2 α ,3 β ,19 α -Trihydroxy-olean-11,13(18)-dien-28-oic acid
 C₃₀H₄₆O₅ (486.70). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.



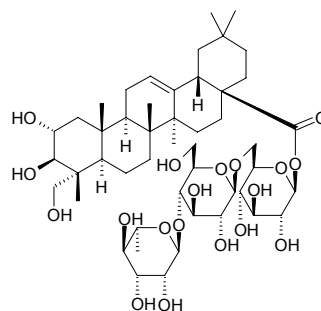
21823 3 β ,16 α ,28-Trihydroxyolean-11,13(18)-dien-3 β -yl- β -D-glucopyranosyl-(1 \rightarrow 6)-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside-28-O- β -D-glucopyranoside
 C₅₄H₈₈O₂₂ (1089.29). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



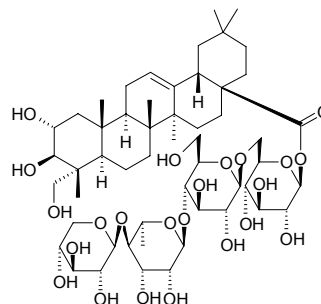
21824 2 α ,3 α ,19 α -Trihydroxy-12-oleanen-28-oic acid
 C₃₀H₄₈O₅ (488.71). White powder. Source: SAN YE MU TONG *Akebia trifoliata* (stem), TAI WAN PI PA *Eriobotrya deflexa* (leaf), WU PAO ZI *Rubus parkeri*. Ref: 2162, 3064, 4545.



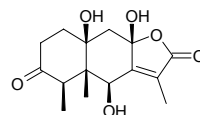
21825 2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid O- α -L-rhamnopyranosyl-(1 \rightarrow 4)-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester
 C₄₈H₇₈O₁₉ (959.15). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



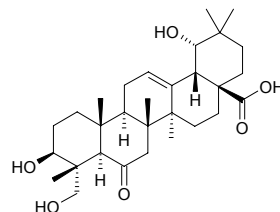
21826 2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid O- β -D-xylopyranosyl-(1 \rightarrow 3)-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)-O- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester
 C₅₃H₈₆O₂₃ (1091.26). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



21827 6 β ,8 β ,10 β -Trihydroxy-3-oxoeremophilenolide
 C₁₅H₂₀O₆ (296.32). Colorless gum, [α]_D²⁰ = +143.0° (c = 0.20, CHCl₃). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

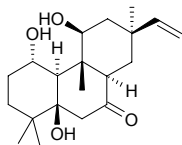


21828 3 β ,19 α ,23-Trihydroxy-6-oxo-olean-12-en-28-oic acid
 C₃₀H₄₆O₆ (502.70). Colorless amorphous powder, [α]_D²⁵ = +17.2° (c = 0.11, MeOH). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 2581.

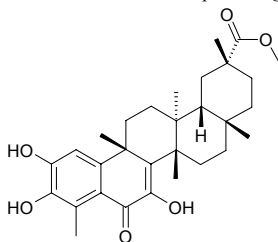


21829 1 α ,5 β ,11 β -Trihydroxy-7-oxo-ros-15-ene

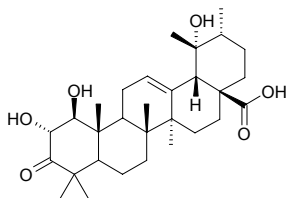
C₂₀H₃₂O₄ (336.48). [α]_D²⁰ = +76° (c = 0.17, CHCl₃). Source: *Gackstroemia decipiens*. Ref: 3907.

**21830 2,3,7-Trihydroxy-6-oxo-1,3,5(10),7-tetraene-24-nor-friedelane-29-oic acid methylester**

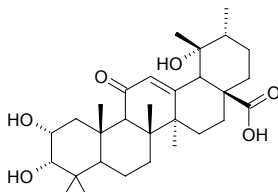
C₃₀H₄₀O₆ (496.65). Yellow powder, [α]_D²⁴ = -45.5° (c = 3.03, MeOH). Pharm: Cytotoxic (KB, IC₅₀ = (9.48±0.35)μmol/L, control Podophyllotoxin, IC₅₀ = 0.014μmol/L); antibacterial (*Bacillus cereus*, MIC = 129.03μmol/L, control Chloramphenicol, MIC = 6.19μmol/L; *Staphylococcus epidermidis*, MIC = 129.03μmol/L, Chloramphenicol, MIC = 12.38μmol/L; *Micrococcus luteus*, MIC = 32.26μmol/L, Chloramphenicol, MIC = 6.19μmol/L). Source: GAO MEI YING BAN *Crossopetalum gaumeri* (root). Ref: 3969.

**21831 1 β ,2 α ,19 α -Trihydroxy-3-oxo-12-ursen-28-oic acid**

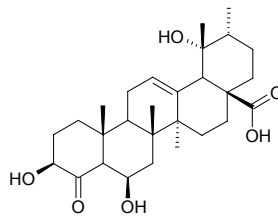
C₃₀H₄₆O₆ (502.7). White amorphous powder, mp 218–220°C, [α]_D²⁵ = +29.7° (c = 0.59, MeOH). Pharm: Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC₅₀ = 26.9μmol/L; control Cyclosporine A, IC₅₀ = 0.012μmol/L). Source: TAI WAN PI PA *Eriobotrya deflexa* (leaf). Ref: 3064.

**21832 2 α ,3 α ,19 α -Trihydroxy-11-oxo-urs-12-en-28-oic acid**

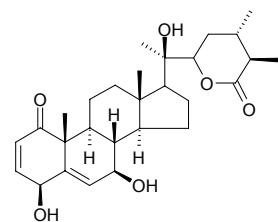
C₃₀H₄₆O₆ (502.70). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.

**21833 3 β ,6 β ,19 α -Trihydroxy-23-oxo-urs-12-en-28-oic acid**

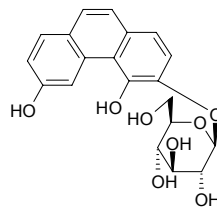
C₂₈H₄₂O₆ (474.64). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.

**21834 4 β ,7 β ,20R-Trihydroxy-1-oxowitha-2,5-dien-22,26-olide**

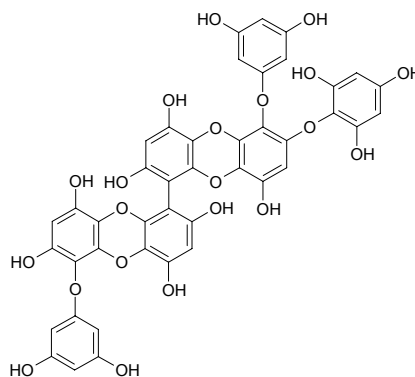
C₂₈H₄₀O₆ (472.63). White amorphous solid, [α]_D²⁰ = -26° (c = 0.082, CH₃CN). Pharm: Quinone reductase inducer (mus Hepa1c1c7 cells, CD = (1.12±0.46)μmol/L, IC₅₀ = (23.9±5.2)μmol/L, CI = 21, positive control Sulforaphane, CD = (0.36±0.17)μmol/L, IC₅₀ = (9.9±2.1)μmol/L, CI = 28). Source: FEI CHENG SUAN JIANG *Physalis philadelphica* (leaf and stem). Ref: 4337.

**21835 3,4,6-Trihydroxyphenanthrene-3-O- β -D-glucopyranoside**

C₂₀H₂₀O₈ (388.38). Amorphous solid, [α]_D²⁰ = -16° (c = 0.25, MeOH). Pharm: Antifungal inactive (hmn pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*). Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. Ref: 2576.

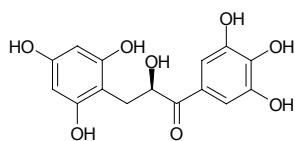
**21836 2-O-(2,4,6-Trihydroxyphenyl)-6,6'-bieckol**

2-O-Phloro-6,6'-bieckol [89079-38-9] C₄₂H₂₆O₂₁ (866.65). Colorless amorphous powder. Pharm: Antifibrinolysis (α_2 -macroglobulin *in vitro*, IC₅₀ = 1.9μg/mL, α_2 -fibrinolysin *in vitro*, IC₅₀ = 0.7μg/mL, fibrinolysin *in vitro*, IC₅₀ = 13μg/mL). Source: HEI KUN BU *Ecklonia kurome*. Ref: 1020.



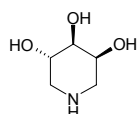
21837 1-(3,4,5-Trihydroxyphenyl)-3-(2,4,6-trihydroxyphenyl)-2-hydroxy-1-propanone

$C_{15}H_{14}O_8$ (322.27). Red amorphous powder, $[\alpha]_D = +234.6^\circ$ ($c = 0.8$, MeOH).
Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.



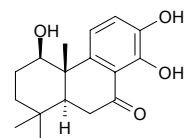
21838 3β,4β,5α-Trihydroxypiperidine

[130114-77-1] $C_5H_{11}NO_3$ (133.15). Colorless oil, $[\alpha]_D = +66.7^\circ$ ($c = 0.3$, methanol). Pharm: α -Glucosidase inhibitor ($IC_{50} = 1.88\mu\text{mol/L}$); β -galactosidase inhibitor ($IC_{50} = 3.76\mu\text{mol/L}$). Source: PEI LAN *Eupatorium fortunei*. Ref: 1192.



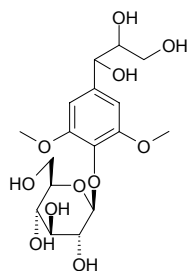
21839 1β,13,14-Trihydroxy-8,11,13-podocarpatrien-7-one

$C_{17}H_{22}O_4$ (290.36). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4182.



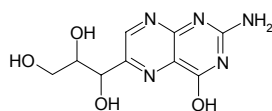
21840 4-(1,2,3-Trihydroxypropyl)-2,6-dimethoxyphenyl-1-O-β-D-glucopyranoside

$C_{17}H_{26}O_{11}$ (406.39). Colorless crystals (MeOH), mp 185–187°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 4599.



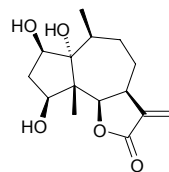
21841 Trihydroxypropylpterisin

$C_9H_{11}N_5O_4$ (253.22). mp 250°C (dec). Source: CHAN PI *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.



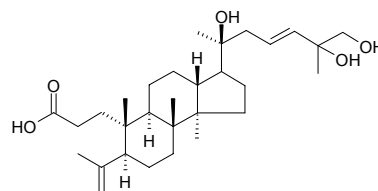
21842 1α,2β,4β-Trihydroxypseudoguaian-6β,12-olide

$C_{15}H_{22}O_5$ (282.34). Amorphous solid (Me₂CO). Source: YIN JIAO JU *Parthenium hysterophorus* (aerial parts). Ref: 5106.



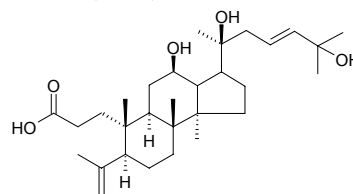
21843 (23E,20S)-20,25,26-Trihydroxy-3,4-secodammara-4(28),23-dien-3-oic acid

$C_{30}H_{50}O_5$ (490.73). Source: CHI YANG *Alnus japonica*. Ref: 660.



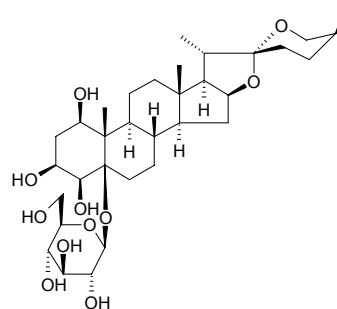
21844 (23E,12R,20S)-12,20,25-Trihydroxy-3,4-secodammara-4(28),23-dien-3-oic acid

$C_{30}H_{50}O_5$ (490.73). Source: CHI YANG *Alnus japonica*. Ref: 660.



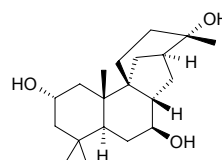
21845 (25S)-1β,3β,4β-Trihydroxyspirostan-5β-yl-O-β-D-glucopyranoside

Convallagenin B 5-O-β-D-glucopyranoside $C_{33}H_{54}O_{11}$ (626.79). Pharm: Cytotoxic (MTT assay, K562, $IC_{50} = 44.52\mu\text{mol/L}$; positive control *cis*-dichlorodiamine platinum, $IC_{50} = 69.33\mu\text{mol/L}$). Source: WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). Ref: 4324.



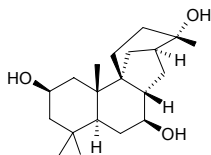
21846 2α,7β,13(S)-Trihydroxystemodane

$C_{30}H_{39}O_3$ (322.49). Cubes, mp 240–241°C, $[\alpha]_D^{27} = +22.6^\circ$ ($c = 0.44$, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

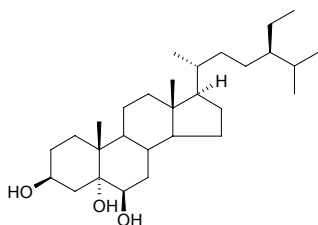


21847 2 β ,7 β ,13(S)-Trihydroxystemodane

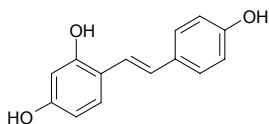
C₂₀H₃₄O₃ (322.49). Gum, $[\alpha]_D^{27} = +24.6^\circ$ ($c = 3.6$, MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**21848 3 β ,5 α ,6 β -Trihydroxystigmastane**

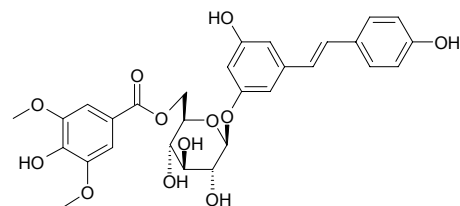
C₂₉H₅₂O₃ (448.74). Source: YU BAI SHI SONG *Lycopodium obscurum*. Ref: 660.

**21849 2,4,4'-Trihydroxystilbene**

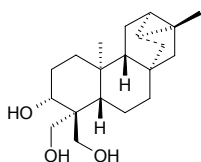
C₁₄H₁₂O₃ (228.25). Pharm: Cytotoxic (cyclooxygenase-1 inhibitor)^[5038]. Source: PU⁽²⁾ TAO *Vitis vinifera* (cell culture). Ref: 5038.

**21850 (E)-3,5,4'-Trihydroxystilbene 3-O- β -D-(6-O-galloyl)glucopyranoside**

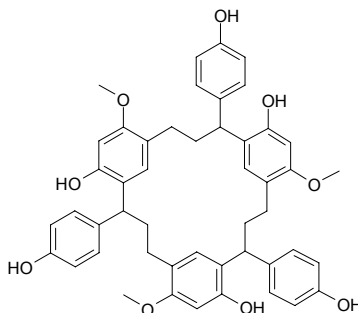
C₂₉H₃₀O₁₂ (570.56). Colorless needles, mp 168–169°C, $[\alpha]_D^{27} = -60.3^\circ$ ($c = 0.12$, MeOH). Source: Eskemurjea megacarpum (underground part: yield = 0.0025%dw). Ref: 924.

**21851 3 α ,18,19-Trihydroxy trachylobane**

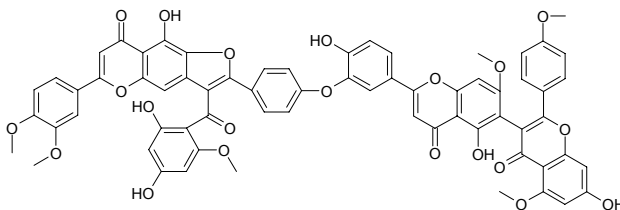
C₂₀H₃₂O₃ (320.48). mp 180–181°C, $[\alpha]_D^{18} = -39^\circ$ ($c = 3$, CHCl₃:MeOH = 1:1). Source: CHANG SUI BA DOU *Croton macrostachys*. Ref: 3983, 4552.

**21852 3,12,21-Trihydroxy-1,10,19-tri(4-hydroxyphenyl)-5,14,23-trimethoxy[3.3.3]metacyclopentane**

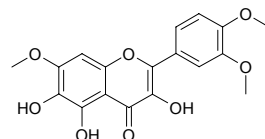
C₄₈H₄₈O₉ (768.91). Pinkish amorphous powder, mp 293°C. Source: ZHU HONG LONG XUE SHU *Dracaena cinnabari*. Ref: 1941.

**21853 (4''',5''',7'-Trihydroxy-4',5,7''-trimethoxy-3,6''-bi-flavone)-3'''-O-4'''-(5,5'',7''-trihydroxy-3',3'',4'-trimethoxy-6-O- β -7- α -flavone-chalcone)**

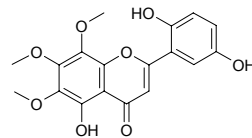
C₆₆H₄₆O₂₁ (1175.09). Yellow solid, mp 243–246°C (Me₂CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.

**21854 3,5,6-Trihydroxy-7,3',4'-trimethoxyflavone**

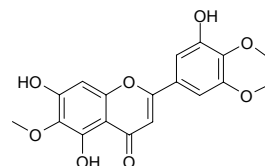
C₁₈H₁₆O₈ (360.32). Orange crystals, mp 272°C (dec), soluble in acetone and methanol, hardly soluble in chloroform and water. Source: FO SHOU *Citrus medica* var. *sarcodactylis*. Ref: 31.

**21855 5,2',5'-Trihydroxy-6,7,8-trimethoxyflavone**

C₁₈H₁₆O₈ (360.32). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21856 5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone**

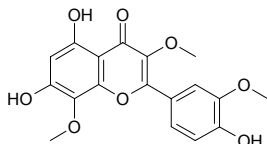
C₁₈H₁₆O₈ (360.32). Pale yellow powder, mp 252–256°C. Pharm: PFTase inhibitor (100 μ g/mL, InRt = 65%); cytotoxic inactive (hmn breast cancer lines: MDA-MB-231, MCF7, T47D, 20 μ g/mL); angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10 μ g). Source: AI YE *Artemisia argyi*. Ref: 5378.



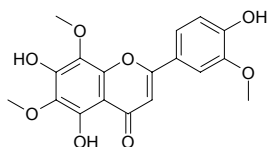
21857 5,7,4'-Trihydroxy-3,8,3'-trimethoxyflavone

$C_{18}H_{16}O_8$ (360.32). **Pharm:** Antioxidant inactive (Takamatsu DCFH method, myelomonocytic HL-60 cells, control NDGA, $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$, Vitamin C, $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$, Trolox, $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$)^[3850]; cytotoxic (XTT assay, HL-60 cells, $IC_{50} > 50.0 \mu\text{g/mL}$; control NDGA, $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$, Vitamin C, $IC_{50} > 10.0 \mu\text{g/mL}$, Trolox, $IC_{50} > 10.0 \mu\text{g/mL}$)^[3850].

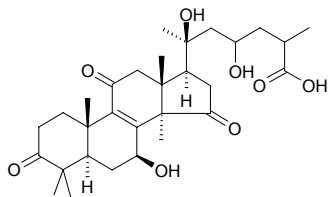
Source: SAN CHI LA RUI A *Larrea tridentata* (leaf), *Cyanostegia angustifolia* (leaf), *Geraea canescens*, *Gutierrezia* spp. **Ref:** 1521, 3850.

**21858 5,7,4'-Trihydroxy-6,8,3'-trimethoxy flavone**

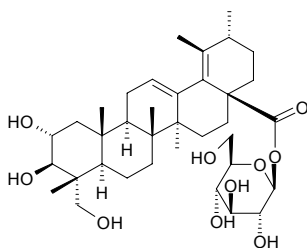
Sudachiflavone $C_{18}H_{16}O_8$ (360.32). **Source:** JU PI *Citrus reticulata*. **Ref:** 660.

**21859 7β,20,23ξ-Trihydroxy-3,11,15-trioxolanosta-8-en-26-oic acid**

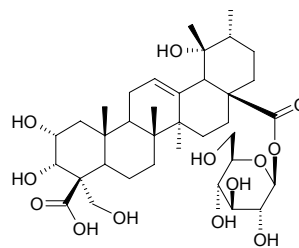
$C_{30}H_{44}O_8$ (532.68). Colorless amorphous solid, $[\alpha]_D^{26} = +225.5^\circ$ ($c = 0.216$, CHCl_3). **Source:** SHU SHE *Ganoderma applanatum* (sporocarp; yield = 0.0071%). **Ref:** 4756.

**21860 2α,3β,24-Trihydroxyurs-12,18-dien-28-oic acid 28-O-β-D-glucopyranosyl ester**

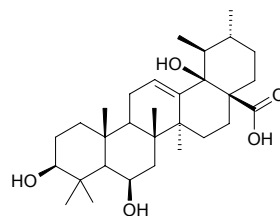
$C_{36}H_{56}O_{10}$ (648.84). White powder, $[\alpha]_D^{25} = +77.4^\circ$ ($c = 0.19$, MeOH). **Source:** GANG MAO TENG SHAN LIU *Clematoclethra scanden*. **Ref:** 2133.

**21861 2α,3α,23-Trihydroxyurs-12-en-24,28-dioic acid 28-β-D-glucopyranosylester**

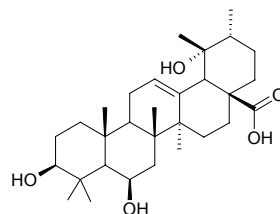
$C_{36}H_{56}O_{13}$ (696.84). White amorphous powder, $[\alpha]_D^{23} = +34.1^\circ$ ($c = 2.7$, MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.

**21862 3β,6β,18β-Trihydroxyurs-12-en-28-oic acid**

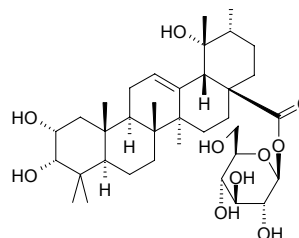
$C_{30}H_{48}O_5$ (488.71). **Pharm:** Anti-inflammatory; antiviral. **Source:** TUO YUAN GOU TENG *Uncaria elliptica*, *Uncaria thwaitesii*. **Ref:** 5341.

**21863 3β,6β,19α-Trihydroxyurs-12-en-28-oic acid**

$C_{30}H_{48}O_5$ (488.71). **Source:** BI LU GOU TENG *Uncaria tomentosa*, MIAN MAO GOU TENG *Uncaria lanosa*, TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

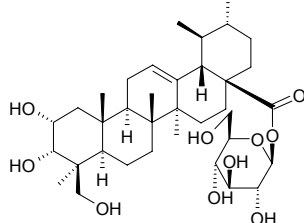
**21864 2α,3α,19α-Trihydroxyurs-12-en-28-oic acid 28-β-D-glucopyranosyl ester**

Kajjichigoside F1 $C_{36}H_{58}O_{10}$ (650.86). White needles (MeOH), mp 231–233°C. **Pharm:** Cytotoxic inactive (HSC-2, $IC_{50} > 200 \mu\text{g/mL}$; HGF, $IC_{50} > 200 \mu\text{g/mL}$)^[5160]. **Source:** DI YU *Sanguisorba officinalis*, GUANG LIANG YANG TONG *Adinandra nitida*. **Ref:** 5160, 2518.

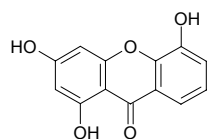


21865 2 α ,3 α ,24-Trihydroxyurs-12-en-28-oic acid-28-O- β -D-glucopyranosyl ester

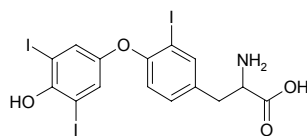
$C_{36}H_{58}O_{10}$ (650.86). White amorphous powder, $[\alpha]_D^{20} = -25^\circ$ ($c = 0.08$, MeOH). Source: YE SHENG SHAN YING TAO *Prunus serrulata* var. *spontanea* (leaf). Ref: 4263.

**21866 1,3,5-Trihydroxyxanthone**

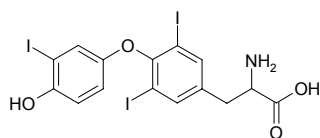
$C_{13}H_8O_5$ (244.21). Pharm: Antibacterial (*Mycobacterium tuberculosis*). Source: *Allanblackia floribunda*. Ref: 658.

**21867 3,3',5'-Triiodothyronine**

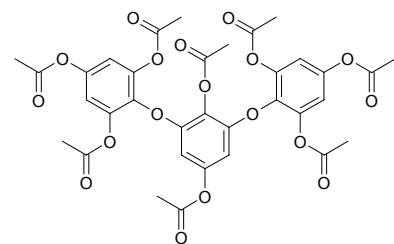
$C_{15}H_{12}I_3NO_4$ (650.98). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21868 3,5,3'-Triiodothyronine**

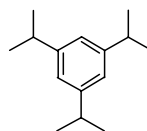
[6893-02-3] $C_{15}H_{12}I_3NO_4$ (650.98). mp 236–237°C (dec). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21869 Triisofulhalol octaacetate**

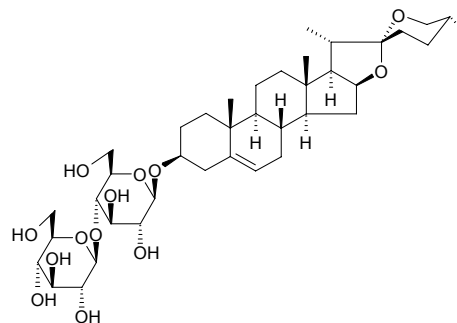
$C_{34}H_{30}O_{18}$ (726.61). Source: SHENG ZAO *Chorda filum*. Ref: 660.

**21870 1,3,5-Triisopropylphene**

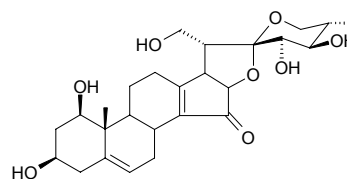
[717-74-8] $C_{15}H_{24}$ (204.36). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**21871 Trillarlin**

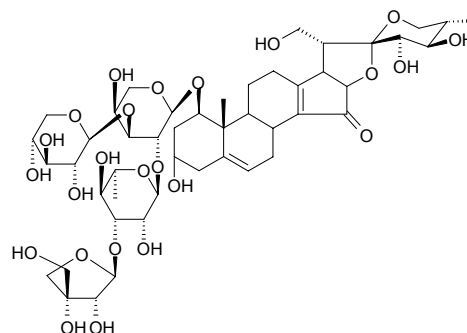
[55639-73-1] $C_{39}H_{62}O_{13}$ (738.92). mp 197–200°C. Source: HE HUA YAN LING CAO *Trillium erectum*, YAN LING CAO *Trillium tschonoskii*. Ref: 6, 660, 1521.

**21872 Trillenogenin**

$C_{26}H_{36}O_8$ (476.57). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

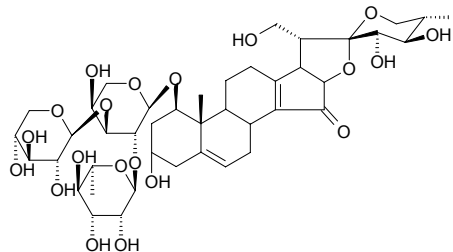
**21873 Trillenoside A**

$C_{47}H_{70}O_{24}$ (1019.07). Amorphous powder, $[\alpha]_D^9 = -92.0^\circ$ ($c = 2.7$, MeOH). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

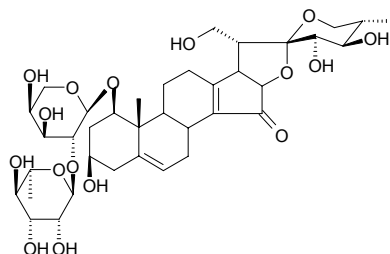


21874 Trillenoside B

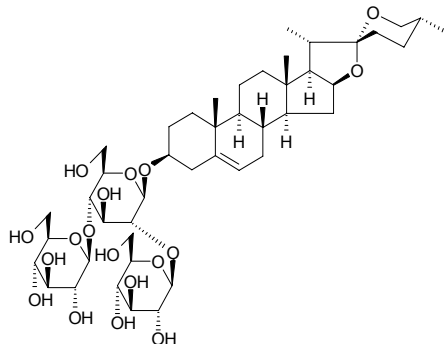
$C_{42}H_{62}O_{20}$ (886.95). Amorphous powder, $[\alpha]_D^{20} = -132.0^\circ$ ($c = 0.8$, MeOH).
 Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part).
 Ref: 4403.

**21875 Trillenoside C**

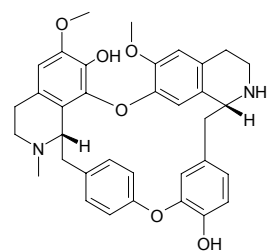
$C_{37}H_{54}O_{16}$ (754.83). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

**21876 Trilloside B**

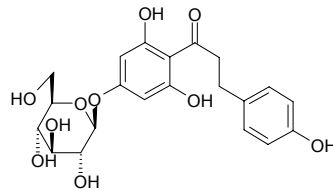
$C_{45}H_{72}O_{18}$ (901.06). Source: YU ER QI *Trillium kamschaticum*. Ref: 6.

**21877 Trilobamine**

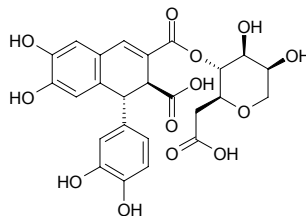
$C_{35}H_{36}N_2O_6$ (580.69). Crystals (chloroform), mp 194~196°C, $[\alpha]_D^{20} = +459^\circ$ ($c = 0.3$, chloroform). Pharm: CNS depressant; paralyzes respiration; vasodilator.
 Source: MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 6, 658, 660.

**21878 Trilobatin**

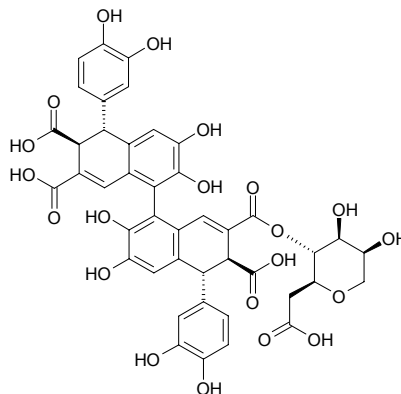
$C_{21}H_{24}O_{10}$ (436.42). Source: DUO SUI SHI KE YE *Lithocarpus polystachyus*.
 Ref: 660.

**21879 Trilobatin D**

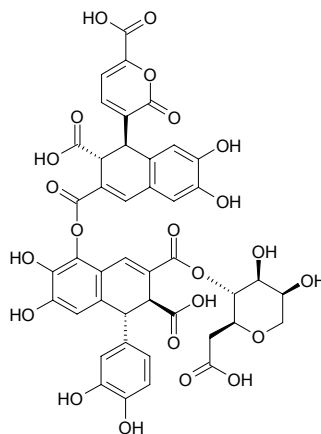
$C_{25}H_{24}O_{13}$ (532.46). $[\alpha]_D^{20} = -146.7^\circ$ ($c = 0.23$, MeOH). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

**21880 Trilobatin E**

$C_{43}H_{36}O_{21}$ (888.75). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

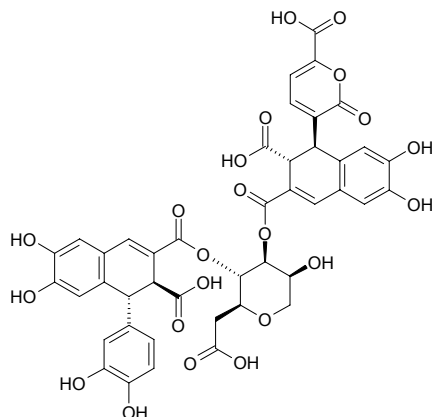
**21881 Trilobatin F**

$C_{43}H_{34}O_{23}$ (918.74). $[\alpha]_D^{20} = -75.3^\circ$ ($c = 0.27$, MeOH). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

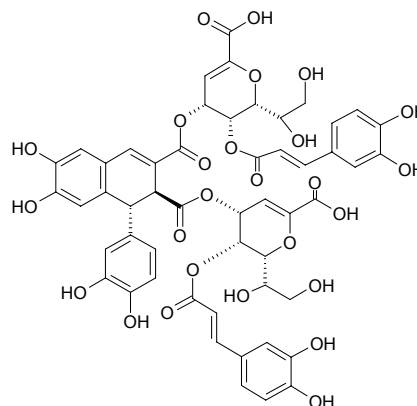


21882 Trilobatin G

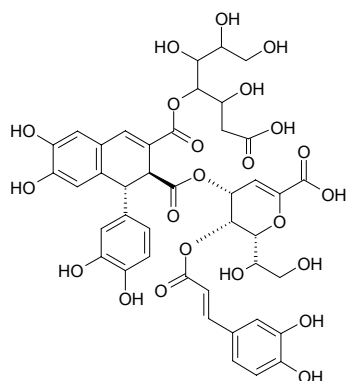
$C_{43}H_{34}O_{22}$ (902.74). $[\alpha]_D^{20} = -20.0^\circ$ ($c = 0.11$, MeOH). Source: BIAN TAI
Bazzania trilobata. Ref: 3366.

**21885 Trilobatin J**

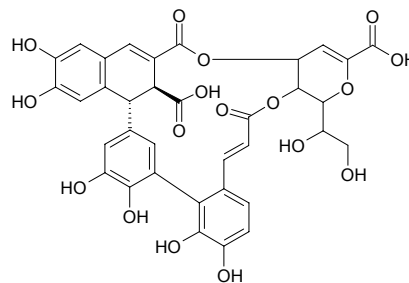
$C_{52}H_{46}O_{26}$ (1086.93). $[\alpha]_D^{20} = -164.6^\circ$ ($c = 0.33$, MeOH). Source: BIAN TAI
Bazzania trilobata. Ref: 3366.

**21883 Trilobatin H**

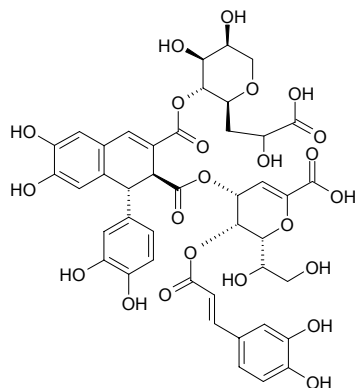
$C_{42}H_{42}O_{23}$ (914.79). $[\alpha]_D^{20} = -164.6^\circ$ ($c = 0.33$, MeOH). Source: BIAN TAI
Bazzania trilobata. Ref: 3366.

**21886 Trilobatin K**

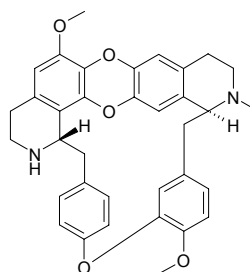
$C_{35}H_{28}O_{17}$ (720.60). $[\alpha]_D^{20} = -12.3^\circ$ ($c = 0.23$, MeOH). Source: BIAN TAI
Bazzania trilobata. Ref: 3366.

**21884 Trilobatin I**

$C_{43}H_{42}O_{23}$ (926.80). $[\alpha]_D^{20} = -84.0^\circ$ ($c = 0.07$, MeOH). Source: BIAN TAI
Bazzania trilobata. Ref: 3366.

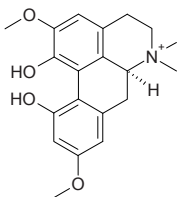
**21887 Trilobine**

[6138-73-4] $C_{35}H_{34}N_2O_5$ (562.67). mp 237°C. Pharm: Analgesic (rbt); anti-inflammatory; antipyretic (rbt); cytotoxic (HeLa-S3 cells); CNS depressant; platelet aggregation inhibitor (rat, induced by ADP, *in vitro* and *in vivo*); antihypertensive; muscle relaxant; paralyzes cardiac and skeletal muscle (frog); used in treatment of hypertension and rheumatalgia; MLD (rbt, iv) = 50mg/kg, (rbt, sc) = 150mg/kg, (frog, sc) = 500-100mg/kg, (mus, sc) = 500-100mg/kg. Source: BAI YAO ZI *Stephania cepharantha*, HENG ZHOU WU YAO *Cocculus laurifolius*, MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 4, 658, 660.

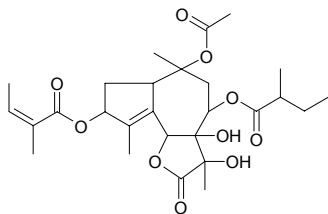


21888 Trilobinine

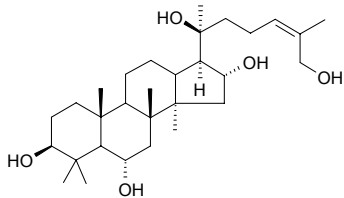
$C_{20}H_{24}NO_4^+$ (342.42). Source: JIAN YE TANG SONG CAO *Thalictrum acutifolium*. Ref: 660.

**21889 Trilobolide**

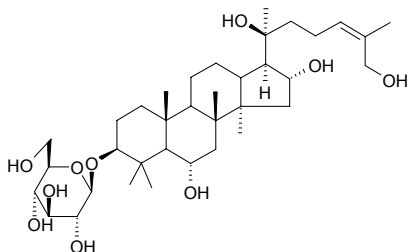
Silerin [50657-07-3] $C_{27}H_{38}O_{10}$ (522.60). mp 191~192°C. Pharm: Antineoplastic; cytotoxic; insect antifeedant. Source: *Siler trilobum*. Ref: 5, 658, 1521.

**21890 Trilocularol A**

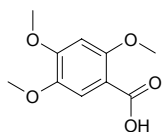
3 β ,6 α ,16 α ,20(S),27-Pentahydroxydammar-24(Z)-ene $C_{30}H_{52}O_5$ (492.75). Amorphous solid, mp 90~92°C (dec), $[\alpha]_D^{25} = +17.39^\circ$ ($c = 0.138$, MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21891 Trilocularol A 3-glucoside**

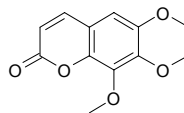
3 β -D-Glucopyranosyloxy-6 α ,16 α ,20(S),27-tetrahydroxydammar-24(Z)-ene $C_{36}H_{62}O_{10}$ (654.89). Gummy material, $[\alpha]_D^{25} = +10.0^\circ$ ($c = 0.15$, MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21892 2,4,5-Trimethoxybenzoic acid**

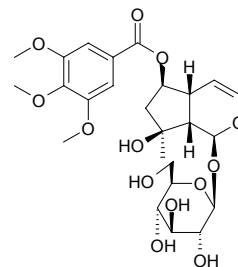
$C_{10}H_{12}O_5$ (212.20). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf; yield = 0.0014%dw). Ref: 4614.

**21893 6,7,8-Trimethoxy-2H-1-benzopyran-2-one**

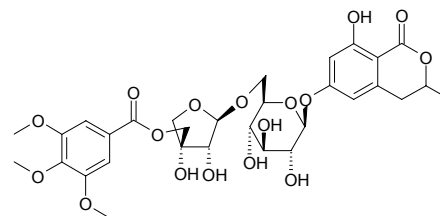
[6035-49-0] $C_{12}H_{12}O_5$ (236.23). Pharm: α -Glucosidase inhibitor inactive (type VI, control 1-Deoxynojirimycin, $IC_{50} = 0.3\text{mmol/L}$); thrombin inhibitor inactive; β -glucuronidase inhibitor inactive. Source: YUN NAN TU SI ZI *Cuscuta reflexa*. Ref: 4155.

**21894 6-O-(3,4,5-Trimethoxybenzoyl)-ajugol**

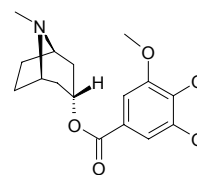
$C_{25}H_{34}O_{13}$ (542.54). Amorphous powder, $[\alpha]_D^{22} = -130^\circ$ ($c = 2.65$, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21895 β -D-[5-O-(3,4,5-Trimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl**

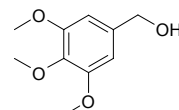
$C_{31}H_{38}O_{17}$ (682.64). Amorphous powder, $[\alpha]_D^{24} = -95^\circ$ ($c = 0.40$, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21896 3 α -(3',4',5'-Trimethoxybenzoyloxy)tropane**

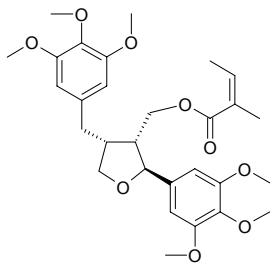
$C_{18}H_{25}NO_5$ (335.40). Colorless semisolid. Source: XI LAN GU KE *Erythroxylum zeylanicum* (root). Ref: 3919.

**21897 3,4,5-Trimethoxy-benzyl alcohol**

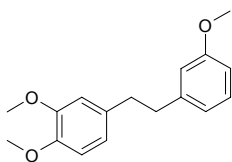
$C_{10}H_{14}O_4$ (198.22). Source: MAO GUO QI *Acer nikoense* (stem cortex). Ref: 4304.



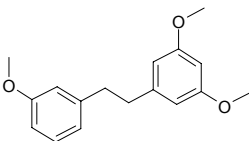
21898 [(2*S*,3*R*,4*R*)-4-(3,4,5-Trimethoxybenzyl)-2-(3,4,5-trimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate
 $C_{29}H_{38}O_9$ (530.62). Colorless gum, $[\alpha]_D^{20} = +21.37^\circ$, ($c = 0.496$, MeOH).
 Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 5037.



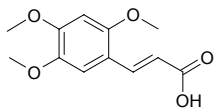
21899 3,4,3'-Trimethoxybibenzil
 $C_{17}H_{20}O_3$ (272.35). Colorless oil. Source: BA XI ER YE TAI *Frullania brasiliensis*. Ref: 1981.



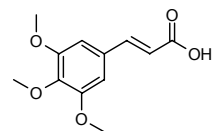
21900 3,5,3'-Trimethoxybibenzil
 $C_{17}H_{20}O_3$ (272.35). Source: BAI JI *Bletilla striata*. Ref: 660.



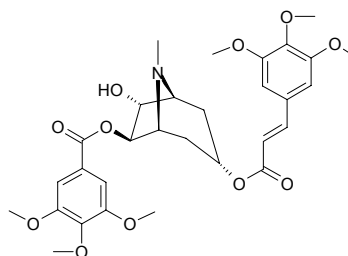
21901 2,4,5-Trimethoxycinnamic acid
 $C_{12}H_{14}O_5$ (238.24). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf: yield = 0.00024%dw). Ref: 4614.



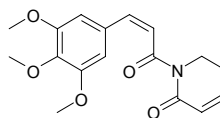
21902 3,4,5-Trimethoxy cinnamic acid
 [90-50-6] $C_{12}H_{14}O_5$ (238.24). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 2.



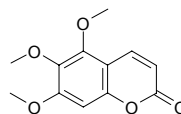
21903 3 α -(3,4,5-Trimethoxy-cinnamoyloxy)-7 β -(3,4,5-trimethoxybenzoyloxy)-6 α -hydroxy-tropane
 $C_{30}H_{37}NO_{11}$ (587.63). mp 176°C, $[\alpha]_D^{25} = -20.8^\circ$ ($c = 0.1$, EtOH). Source: YUAN XING YE GU KE *Erythroxylon rotundifolium* (leaf and stem cortex). Ref: 3999.



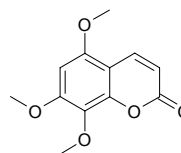
21904 8(*Z*)-*N*-(12,13,14-Trimethoxycinnamoyl)-*D*³-pyridin-2-one
 $C_{17}H_{19}NO_5$ (317.34). Amorphous solid. Pharm: Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0 μ g, control Nystatin, MIA = 0.5 μ g). Source: LIU TU HU JIAO *Piper tuberculatum* (seed). Ref: 5102.



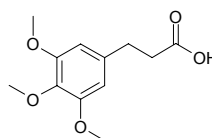
21905 5,6,7-Trimethoxycoumarin
 $C_{12}H_{12}O_5$ (236.23). Pharm: Tyrosinase inhibitor ($IC_{50} = (8.65 \pm 0.95) \mu\text{mol/L}$, control Kojic acid, $IC_{50} = (16.67 \pm 0.52) \mu\text{mol/L}$, *L*-Mimosine $IC_{50} = (3.68 \pm 0.02) \mu\text{mol/L}$)^[2544]; antimalarial. Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*], A FU HAN DU JUAN HUA *Rhododendron collettianum*. Ref: 658, 2544.



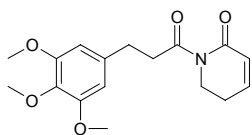
21906 5,7,8-Trimethoxycoumarin
 $C_{12}H_{12}O_5$ (236.23). mp 179–180°C. Source: YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.



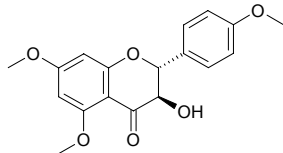
21907 3,4,5-Trimethoxydihydrocinnamic acid
 $C_{12}H_{16}O_5$ (240.26). Source: CHANG GUO BI BA *Piper retrofractum*. Ref: 660.



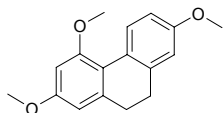
21908 *N*-(12,13,14-Trimethoxydihydrocinnamoyl)-*A*³-pyridin-2-one
 C₁₇H₂₁NO₅ (319.36). **Pharm:** Antifungal (*Cladosporium sphaerospermum*,
 MIA = 0.1μg, control Nystatin, MIA = 0.5μg). **Source:** LIU TU HU JIAO
Piper tuberculatum (seed). **Ref:** 5102.



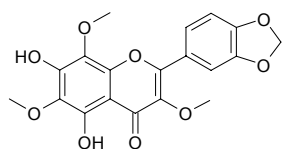
21909 (2*R*,3*R*)-(+)-4',5,7-Trimethoxydihydroflavonol
 C₁₈H₁₈O₆ (330.34). Colorless powder (EtOAc), [α]_D²⁴ = 30° (c = 0.2, MeOH).
Source: HOU PI SHU *Lansea grandis* [Syn. *Lansea coromandelica*]. **Ref:** 739.



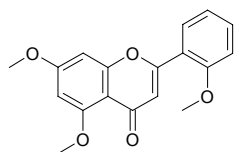
21910 2,4,7-Trimethoxy-9,10-dihydrophenanthrene
 C₁₇H₁₈O₃ (270.33). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.



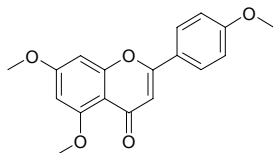
21911 3,6,8-Trimethoxy-5,7-dihydroxy-3',4'-methylenedioxyflavone
 C₁₉H₁₆O₉ (388.33). Yellow crystals. **Source:** RU NI WENG DAO MI ZHU
 YU *Melicope coodeana*. **Ref:** 1975.



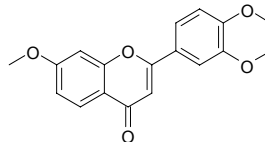
21912 5,7,2'-Trimethoxyflavone
 C₁₈H₁₆O₅ (312.33). Colorless needles (CHCl₃), mp 177~178°C. **Source:** NAN
 YIN DU CHUAN XIN LIAN *Andrographis viscosula*. **Ref:** 1936.



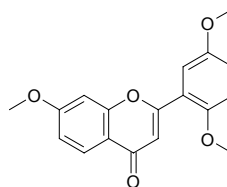
21913 5,7,4'-Trimethoxyflavone
 5,7,4'-Trimethoxyapigenin; Apigenin trimethyl ether [5631-70-9] C₁₈H₁₆O₅
 (312.32). Colorless rhombic crystals (methanol), mp 158.5~159.5°C. **Pharm:**
 Induces cell differentiation (mus myelocytic leukemia cells, 50μmol/L,
 growing rate =35%, 5μmol/L, growing rate =85%); inhibits activity of EBV
 early antigen EBV-EA induced by TPA; AMV-reverse transcriptase inhibitor
 (1.0mmol/L, InRt = 45.6%). **Source:** HUA ZHOU YOU *Citrus grandis* var.
tomentosa, JU PI *Citrus reticulata*, TIAN CHENG *Citrus sinensis*, YOU⁽⁴⁾
Citrus grandis, ZHI SHI *Citrus aurantium*. **Ref:** 660, 900.



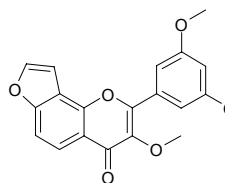
21914 7,2',4'-Trimethoxyflavone
 C₁₈H₁₆O₅ (312.33). Yellow amorphous powder, mp 128~130°C (MeOH).
Source: XIANG HE HUAN *Albizzia odoratissima* (root cortex). **Ref:** 4229.



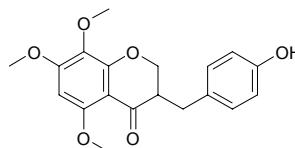
21915 7,2',5'-Trimethoxyflavone
 C₁₈H₁₆O₅ (312.33). Yellow amorphous solid (MeOH), mp 136~138°C. **Source:**
 NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula* (whole herb). **Ref:**
 4406.



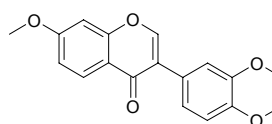
21916 3,3',5'-Trimethoxy furo[8,7:4'',5'']flavone
 C₂₀H₁₆O₆ (352.35). White crystals (MeOH), mp 184°C. **Source:** SHUI LIU
 DOU *Pongamia pinnata* (fruit). **Ref:** 3767.



21917 5,7,8-Trimethoxy-3-(4'-hydroxybenzyl)-4-chromanone
 C₁₉H₂₀O₆ (344.37). Yellow gum. **Source:** HE CAO YE JIA BEI FANG FENG
Ledebouria graminifolia (tuber). **Ref:** 3368.

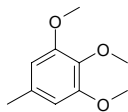


21918 7,3',4'-Trimethoxyisoflavone
 Anticancer Flavonoid PMV70P691-115 C₁₈H₁₆O₅ (312.33). **Pharm:**
 Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced
 by *D*-galactosamine (GalN), 100μmol/L, InRt = (6.6±0.8)%, inactive, control
 Silybin, 100μmol/L, InRt = (77.0±5.5)%^[4095]), cytotoxic (quinone reductase
 induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]. **Source:**
 GUANG BU DING GONG TENG *Erycibe expansa*, YA MAI JIA YING TAO
Muntingia calabura. **Ref:** 4095, 5038.

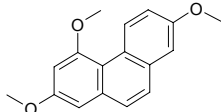


21919 1,2,3-Trimethoxy-5-methyl benzene

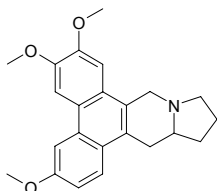
3,4,5-Trimethoxytoluene [6443-69-2] C₁₀H₁₄O₃ (182.22). Source: HONG HUA *Carthamus tinctorius*, XI XIN *Asarum sieboldii*. Ref: 2, 660.

**21920 2,4,7-Trimethoxyphenanthrene**

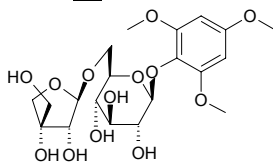
C₁₇H₁₆O₃ (268.32). Source: BAI JI *Bletilla striata*. Ref: 660.

**21921 3,6,7-Trimethoxyphenanthroindolizidine**

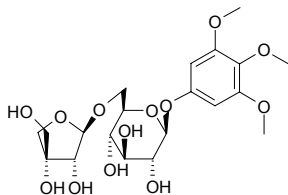
C₂₃H₂₅NO₃ (363.46). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

**21922 2,4,6-Trimethoxyphenyl 1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

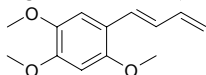
C₂₀H₃₀O₁₃ (478.45). Yellow powder. Source: XI YE SHUI TUAN HUA *Adina rubella*. Ref: 797.

**21923 3,4,5-Trimethoxyphenyl 1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

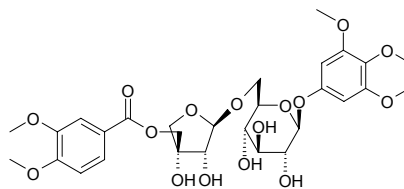
Kelampayoside A C₂₀H₃₀O₁₃ (478.45). Amorphous powder, [α]_D¹⁹ = -137.5° (c = 0.6, MeOH); [α]_D²⁵ = +27.5° (c = 0.52, MeOH). Source: DONG FANG WU TAN *Nauclea orientalis* (bark)^[3074], MAO GUO QI *Acer nikoense* (stem cortex), ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHAN FAN GEN *Symplocos caudata*, TAI GUO BA JI *Morinda coreia*. Ref: 660, 2002, 2535, 3074, 4304.

**21924 4-(2,4,5-Trimethoxyphenyl)-but-1,3-diene**

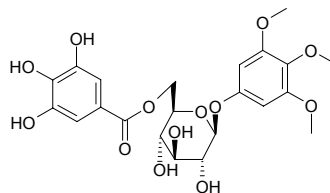
C₁₃H₁₆O₃ (220.27). Pharm: Cytotoxic (A549, Col2, SNU638, HT1080, all IC₅₀ > 50 μmol/L, control Ellipticine, IC₅₀ = 0.8~1.6 μmol/L)^[4081]; COX-2 inhibitor (RAW264.7 cells, LPS-induced PGE₂ production, IC₅₀ = 14.97 μmol/L, control Celecoxib, IC₅₀ = 0.52 nmol/L)^[4532]. Source: YE JIANG *Zingiber cassumunar* (rhizome). Ref: 4081, 4532.

**21925 3,4,5-Trimethoxyphenyl 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**

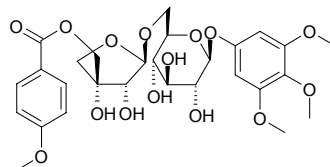
C₂₉H₃₈O₁₆ (642.62). Amorphous powder, [α]_D²² = -78° (c = 0.76, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21926 3,4,5-Trimethoxyphenyl (6'-O-galloyl)-β-D-glucopyranoside**

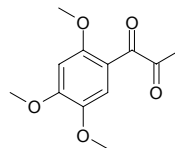
C₂₂H₂₆O₁₃ (498.44). Pharm: Antiplasmodial. Source: *Tristanopsis calobuxus* (bark). Ref: 5361.

**21927 3,4,5-Trimethoxyphenyl 1-O-β-D-[5-O-(4-methoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**

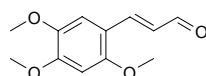
C₂₈H₃₆O₁₅ (512.59). Amorphous powder, [α]_D²² = -79.1° (c = 2.05, MeOH). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC₅₀ = 35.6 μg/mL, control L-NMMA, IC₅₀ = 27.4 μg/mL)^[4473]. Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). Ref: 3817, 4473.

**21928 1-(2,4,5-Trimethoxyphenyl)-1,2-propanedione**

C₁₂H₁₄O₅ (238.24). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC₅₀ = 74 μmol/L; CYP2D6, IC₅₀ > 100 μmol/L; control Ketoconazole, CYP3A4, IC₅₀ = 0.72 μmol/L; control Quinidine, CYP2D6, IC₅₀ = 0.082 μmol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.000019% dw). Ref: 4797.

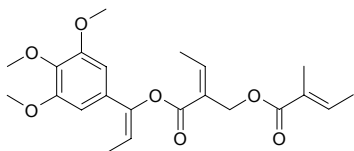
**21929 Z-3-(2,4,5-Trimethoxyphenyl)-2-propenal**

C₁₂H₁₄O₄ (222.24). Source: BAI CHANG *Acorus calamus*. Ref: 660.



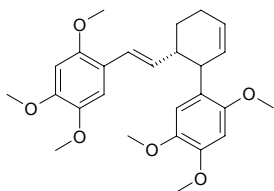
21930 1-(3,4,5-Trimethoxyphenyl)-2-propenyl 2-(2-methyl-2Z-butenoyloxymethyl)-2Z-butenate

$C_{22}H_{28}O_7$ (404.46). Pharm: Anti-inflammatory (NF- κ B inhibitor, hmn monocytes, prevents LPS-induced cytokines (IL-1, IL-6, TNF, IL-8) release and PGE₂ synthesis: unstimulated control: PGE₂ = 0.54pg/mL, IL-6 = 0.97pg/mL, IL-1 β = 0pg/mL, TNF- α = 0.02pg/mL, IL-8 = 3.45pg/mL; LPS (10ng/mL): PGE₂ = 19.24pg/mL, IL-6 = 71.42pg/mL, IL-1 β = 3.61pg/mL, TNF- α = 2.66pg/mL, IL-8 = 235.18pg/mL; LPS (10ng/mL + compound 1 μ g/mL): PGE₂ = 3.49pg/mL, IL-6 = 21.94pg/mL, IL-1 β = 0.86pg/mL, TNF- α = 0.53pg/mL, IL-8 = 41.78pg/mL). Source: GUAN MU CHAI HU *Bupleurum fruticosum* (aerial parts). Ref: 5033.



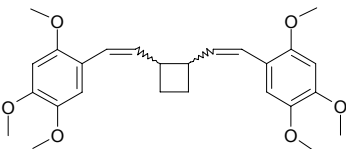
21931 (\pm)-trans-3-(2,4,5-Trimethoxyphenyl)-4-[(E)-2,4,5-trimethoxystyryl]-cyclohexene

$C_{26}H_{32}O_6$ (440.54). Colorless powder (ether-hexane), mp 115–116°C, $[\alpha]_D^{30} = 0^\circ$ ($c = 1.0$, CHCl₃). Source: SHAN SHAN JIANG *Alpinia flabellata*. Ref: 1884.



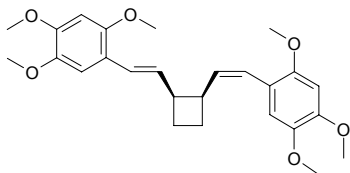
21932 1,2-bis(2,4,5-Trimethoxy-Z-styryl)cyclobutane

$C_{26}H_{32}O_6$ (440.54). Oil. Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



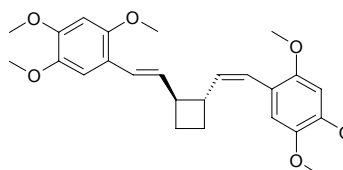
21933 cis-1-(2,4,5-Trimethoxy-E-styryl)-2-(2,4,5-trimethoxy-Z-styryl)cyclobutane

$C_{26}H_{32}O_6$ (440.54). White powder, mp 122–124°C, $[\alpha]_D^{21} = -11.5^\circ$ ($c = 0.1$, CHCl₃). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



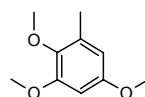
21934 trans-1-(2,4,5-Trimethoxy-E-styryl)-2-(2,4,5-trimethoxy-Z-styryl)cyclobutane

$C_{26}H_{32}O_6$ (440.54). Powder, mp 94–96°C, $[\alpha]_D^{21} = +0.2^\circ$ ($c = 0.1$, CHCl₃). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



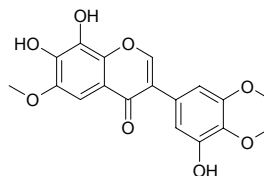
21935 2,3,5-Trimethoxytoluene

$C_{10}H_{14}O_3$ (182.22). Source: XI XIN *Asarum sieboldii*. Ref: 2.



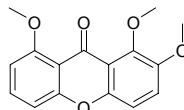
21936 6,3',4'-Trimethoxy-7,8,5'-trihydroxyisoflavone

$C_{18}H_{16}O_8$ (360.32). Amorphous powder. Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 4235.



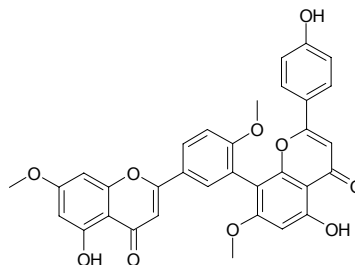
21937 1,2,8-Trimethoxyxanthone

$C_{16}H_{14}O_5$ (286.29). mp 139–141°C (MeOH). Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 3937.



21938 7,4',7''-Tri-O-methyl amentoflavone

[23132-13-0] $C_{33}H_{24}O_{10}$ (580.55). Source: ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root), TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253, 5098.



21939 Trimethylamine

N-Trimethylamine [75-50-3] C_3H_9N (59.11). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], QUAN XIE *Buthus martensi*. Ref: 2.

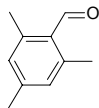


21940 Trimethylamine oxide

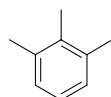
Triox; *N,N*-Dimethylmethanamine *N*-oxide [1184-78-7] C₃H₉NO (75.11). mp 255~257°C. Source: HAI XIA *Penaeus orientalis*. Ref: 6.

**21941 2,4,6-Trimethylbenzaldehyde**

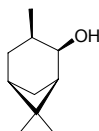
C₁₀H₁₂O (148.21). Source: DANG GUI *Angelica sinensis*. Ref: 660.

**21942 1,2,3-Trimethylbenzene**

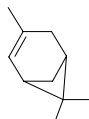
[526-73-8] C₉H₁₂ (120.20). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21943 3,6,6-Trimethyl bicyclo[3.1.1]-2-heptanol**

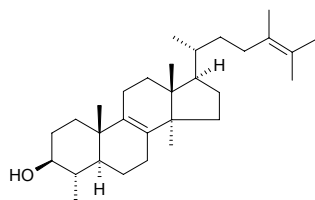
C₁₀H₁₈O (154.25). Source: MENG GU HAO *Artemisia mongolica*. Ref: 660.

**21944 3,6,6-Trimethyl-bicyclo[3.1.1]-2-heptene**

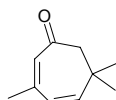
C₁₀H₁₆ (136.24). Source: HANG BAI ZHI *Angelica taiwaniana*. Ref: 2, 660.

**21945 4α,14α,24-Trimethylcholesta-8,24-dienol**

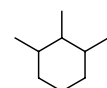
C₃₀H₅₀O (426.73). Source: GOU QI ZI *Lycium chinense*. Ref: 660.

**21946 3,6,6-Trimethyl-2,4-cycloheptadien-1-one**

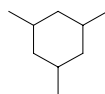
C₁₀H₁₄O (150.22). Source: AI YE *Artemisia argyi*. Ref: 660.

**21947 1,2,3-Trimethyl-cyclohexane**

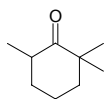
[1678-97-3] C₉H₁₈ (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21948 1,3,5-Trimethylcyclohexane**

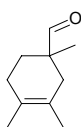
[1839-63-0] C₉H₁₈ (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21949 2,2,6-Trimethyl cyclohexanone**

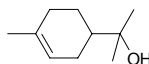
C₉H₁₆O (140.23). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

**21950 1,3,4-Trimethyl-3-cyclohexene-1-carboxaldehyde**

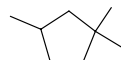
[40702-26-9] C₁₀H₁₆O (152.24). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**21951 α,α,4-Trimethyl-3-cyclohexene methanol**

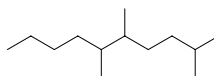
C₁₀H₁₈O (154.25). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.

**21952 1,1,3-Trimethylcyclopentane**

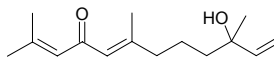
C₈H₁₆ (112.22). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21953 2,5,6-Trimethyldecane**

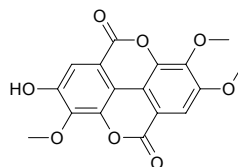
C₁₃H₂₈ (184.37). Source: SHAN NAI *Kaempferia galanga* Ref: 660.

**21954 3,7,11-Trimethyldodeca-1,7,10-trien-3-ol-9-one**

C₁₅H₂₄O₂ (236.36). Source: ZHANG SHU YE *Cinnamomum camphora*. Ref: 6.

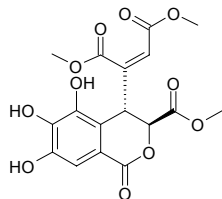
**21955 3,3',4-Tri-O-methyl ellagic acid**

3,3',4'-Tri-*O*-methyl ellagic acid [5145-53-9] C₁₇H₁₂O₈ (344.28). mp 297°C (dec). Pharm: Antioxidant (*in vitro*, effect on conjugated diene formation of LDL or MDA level in rat brain)^[4792]; hemostatic; analgesic; astringent. Source: DI YU *Sanguisorba officinalis*, SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.00045%)^[4792], XI SHU *Camptotheca acuminata*, ZI WEI GEN *Lagerstroemia indica*. Ref: 6, 658, 4097, 4792, 5501.

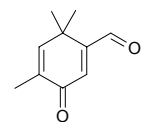


21956 Trimethyl ester dehydrochebulic acid

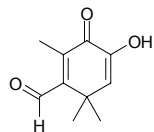
$C_{17}H_{16}O_{11}$ (396.31). White acicular crystals, mp 204~206°C, $[\alpha]_D = +28.5^\circ$ (MeOH). Source: YE XIA ZHU *Phyllanthus urinaria*. Ref: 283.

**21957 1,1,5-Trimethyl-2-formyl-cyclohexa-2,5-diene-4-one**

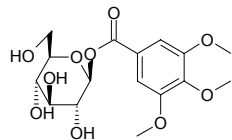
$C_{10}H_{12}O_2$ (164.21). Source: DANG GUI *Angelica sinensis*. Ref: 660.

**21958 2,4,4-Trimethyl-3-formyl-6-hydroxy-2,5-cyclohexadien-1-one**

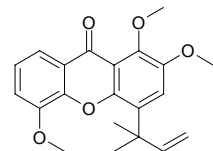
$C_{10}H_{12}O_3$ (180.21). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**21959 Trimethylgalloylglucose**

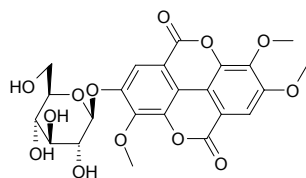
$C_{16}H_{22}O_{10}$ (374.35). Source: HUANG LU ZHI YE *Cotinus coggygia* var. *cinerea*. Ref: 6.

**21960 1,2,5-Tri-O-methylglobuxanthone**

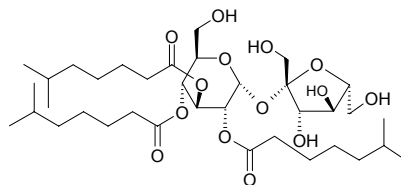
$C_{21}H_{22}O_5$ (354.41). Pale yellow needles, mp 124~126°C (CH₂Cl₂-hexane). Source: *Garcinia vilersiana* (bark). Ref: 3902.

**21961 3,3',4'-O-Trimethyl-4'-O-β-D-glucopyranosyllellagic acid**

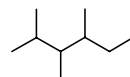
$C_{23}H_{22}O_{13}$ (506.42). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.

**21962 2,3,4-Tri(6-methylheptanoyl)-α-D-glucopyranosyl-β-D-fructofuranoside**

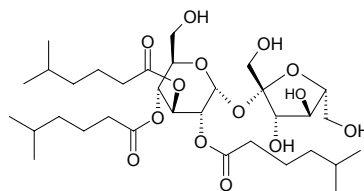
$C_{36}H_{64}O_{14}$ (720.92). Source: ZI MO LI HUA BI DONG QIE *Petunia nyctaginiflora*. Ref: 3396.

**21963 2,3,4-Trimethylhexane**

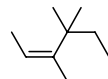
C_9H_{20} (128.26). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21964 2,3,4-Tri(5-methylhexanoyl)-α-D-glucopyranosyl-β-D-fructofuranoside**

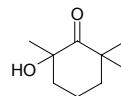
$C_{33}H_{58}O_{14}$ (678.82). Source: ZI MO LI HUA BI DONG QIE *Petunia nyctaginiflora*. Ref: 3396.

**21965 3,4,4-Trimethyl-2-hexene**

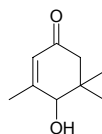
[53941-19-8] C_9H_{18} (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21966 2,6,6-Trimethyl-2-hydroxycyclohexanone**

$C_9H_{16}O_2$ (156.23). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

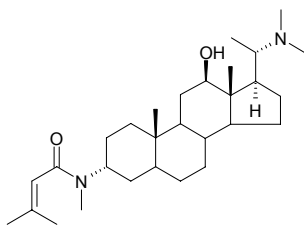
**21967 3,5,5-Trimethyl-4-hydroxy-1-cyclohexanon-2-ene**

4-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1-one $C_9H_{14}O_2$ (154.21). Pharm: Tyrosinase inhibitor (333.3 μmol/L, InRt = 13.3%; control Kojic acid, 333.3 μmol/L, InRt = 59.8%). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.



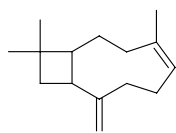
21968 *N*³,*N*²⁰,*N*²⁰-Trimethyl-*N*³-(3-methyl-2-butenyl)-3,20-diamino-pregnan-12-ol

Anticancer Alkaloid PMV70P691-002 C₂₉H₅₀N₂O₂ (458.73). **Pharm:** Cytotoxic (estrone sulfatase assay). **Source:** YANG WO BAN DENG GUO *Pachysandra procumbens*. **Ref:** 5038.



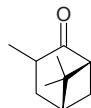
21969 *cis*-4,11,11-Trimethyl-8-methylenebicyclo[7.2.0]-undeca-4-ene

C₁₅H₂₄ (204.36). **Source:** HANG BAI ZHI *Angelica taiwaniana*, MAN SHAN HONG *Rhododendron dauricum*. **Ref:** 2, 660.



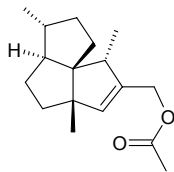
21970 3,6,6-Trimethyl norpinan-2-one

C₁₀H₁₆O (152.24). **Source:** RU XIANG *Boswellia carterii*. **Ref:** 660.



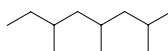
21971 [(1*R**,3*aS*,6*R*)-1,3*a*,6-Trimethyl-1,3*a*,4,5,5*a*,6,7,8-octahydrocyclopenta[*c*]pentalen-2-yl]methyl acetate

C₁₇H₂₆O₂ (262.40). **Pharm:** Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100µg/cm², oedema = (4.3±0.4)mg, *p*<0.05, reduction = 45%, Indomethacin oedema = (3.4±0.3)mg, *p*<0.05, reduction = 56%). **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 4985.



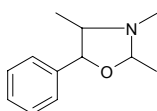
21972 2,4,6-Trimethyl octane

C₁₁H₂₄ (156.31). **Source:** SHAN NAI *Kaempferia galanga*. **Ref:** 660.



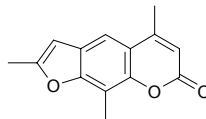
21973 2,3,4-Trimethyl-5-phenyloxazolidine

C₁₂H₁₇NO (191.28). **Source:** MA HUANG *Ephedra sinica*. **Ref:** 2.



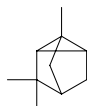
21974 4,5',8-Trimethyl psoralen

[3902-71-4] C₁₄H₁₂O₃ (228.25). **Pharm:** Dermatitic (causes contact dermatitis). **Source:** HAN QIN *Apium graveolens*. **Ref:** 658.



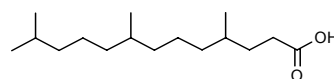
21975 1,3,3-Trimethyltricyclo[2.2.1.0^{2,6}]heptane

C₁₀H₁₆ (136.24). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2.



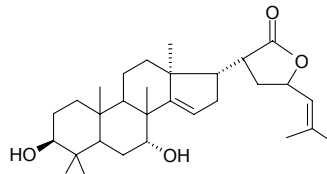
21976 4,8,12-Trimethyl tridecanoic acid

C₁₆H₃₂O₂ (256.43). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2.



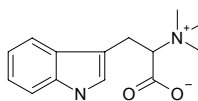
21977 4,4,8-Trimethyl-3β,7α,23-trihydroxy-chola-14,24-dien-21-oic acid-21,23-lactone

C₃₀H₄₆O₄ (470.70). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.



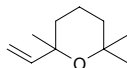
21978 Trimethyl tryptophan

C₁₄H₁₈N₂O₂ (246.13). **Source:** XIANG SI ZI *Abrus precatorius*. **Ref:** 660.



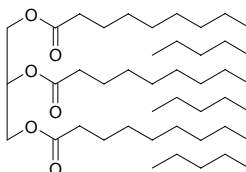
21979 2,2,6-Trimethyl-6-vinyl-tetrahydropyran

[7392-19-0] C₁₀H₁₈O (154.25). **Source:** XIANG YE *Pelargonium graveolens*. **Ref:** 6.



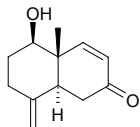
21980 Trimyristin

C₄₅H₈₆O₆ (723.18). **Source:** ROU DOU KOU *Myristica fragrans*. **Ref:** 660.

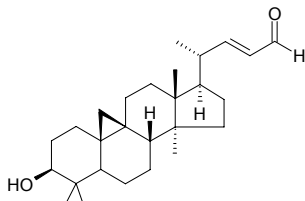


21981 7-Trinoreudesm-4(15),8-dien-1 β -ol-7-one

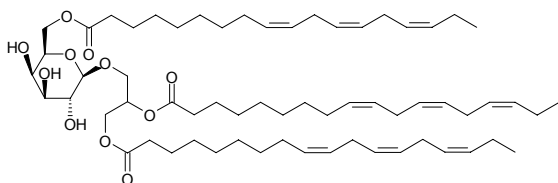
C₁₂H₁₆O₂ (192.26). Colorless gum, [α]_D²⁰ = +128° (c = 0.1, CHCl₃). Source: ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). Ref: 4786.

**21982 (22E)-25,26,27-Trinor-3 β -hydroxycycloart-22-en-24-al**

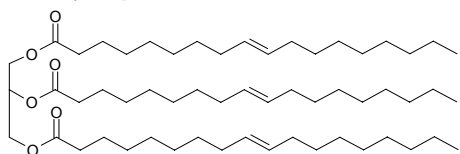
C₂₇H₄₂O₂ (398.36). mp 110–113°C, [α]_D²⁵ = +47.9° (c = 0.2, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.

**21983 (2S)-1,2,6'-Tri-O-[(9Z,12Z,15Z)-octadeca-9,12,15-trienoyl]-3-O- β -D-galactopyranosyl glycerol**

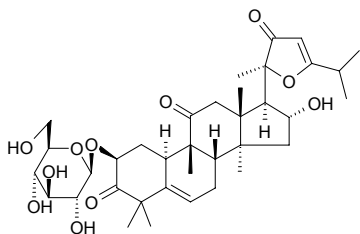
C₆₃H₁₀₂O₁₁ (1035.51). Oil, [α]_D = +6.9° (c = 1.11, EtOH). Source: FEI YUE GUO *Feijoa sellowiana* (leaf). Ref: 3878.

**21984 Triolein**

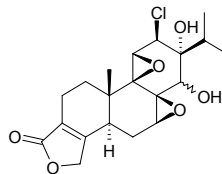
[537-39-3] C₅₇H₁₀₄O₆ (885.46). mp -4°C, bp 235–240°C/18mmHg. Source: BAI E GAO *Anser cygnoides domestica*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*]. Ref: 6.

**21985 3,11,22-Trioxo-16 α -hydroxy-(20S,24)-epoxy-cucurbit-5,23-diene-2 β -O- β -D-glucopyranoside**

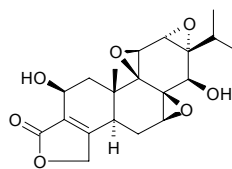
C₃₆H₅₂O₁₁ (660.81). White amorphous powder, [α]_D²⁶ = +35.9° (c = 0.167, MeOH). Source: KU XUAN SHEN *Picria felterrae* (whole herb). Ref: 4856.

**21986 Tripchlorolide**

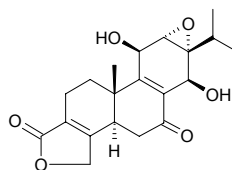
C₂₀H₂₅ClO₆ (396.87). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**21987 Triptidiolide**

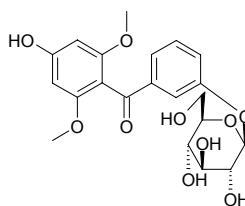
C₂₀H₂₄O₇ (376.41). mp 210–211°C, 226–228°C. Pharm: Antineoplastic (KB, ED₅₀ = 0.0042 μ g/mL); antineoplastic (mus L₁₂₁₀, 1mg/kg, biotic prolonged rate \geq 130%). Source: LEI GONG TENG *Tripterygium wilfordii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 4, 256, 658.

**21988 Triptiotolide**

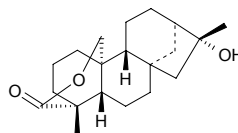
C₂₀H₂₄O₆ (360.41). Colorless hyaloid rhabdoid crystals, mp 222–224°C. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 256.

**21989 Triptephenoside**

C₂₁H₂₄O₁₀ (436.42). Amorphous powder, [α]_D²⁷ = -54.5° (c = 0.56, MeOH). Source: RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 3533.

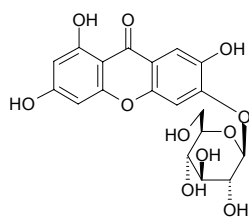
**21990 Tripterfordin**

Tripterifordine [139122-81-9] C₂₀H₃₀O₃ (318.46). White loose crystals (CHCl₃), mp 253–255°C. Pharm: Anti-HIV (lymphocyte H9, against HIV replication, EC₅₀ = 1 μ g/mL). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660, 683, 1764.

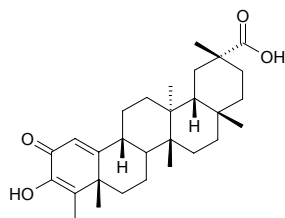


21991 Tripteroside

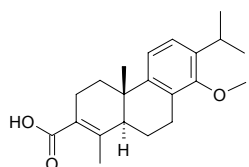
$C_{19}H_{18}O_{11}$ (422.35). **Pharm:** CNS depressant (animal model). **Source:** TAI WAN SHUANG HU DIE *Tripterospermum taiwanense*. **Ref:** 658.

**21992 Tripterygone**

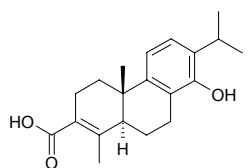
3-Hydroxy-25-norfriedel-3,1(10)-dien-2-one-30-oic acid $C_{29}H_{42}O_4$ (454.66). Colorless acicular crystals, mp 286~287°C. **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 190, 660.

**21993 Triptinin A**

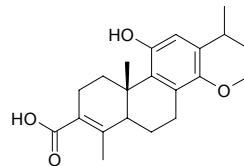
Triptoditerpenic acid B [189389-02-4] $C_{21}H_{28}O_3$ (328.45). Amorphous powder, $[\alpha]_D = +26^\circ$ ($c = 0.42$, methanol); white acicular crystals, mp 209~211°C. **Pharm:** Antiallergic (50µg/mL, leukotriene D₄ antagonist, dissociation constant $K_D = 0.000124$). **Source:** KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 252, 1102.

**21994 Triptinin B**

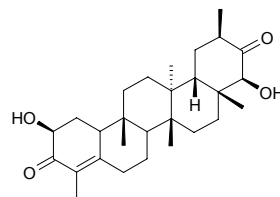
[189389-05-7] $C_{20}H_{26}O_3$ (314.43). Amorphous powder, $[\alpha]_D = +17.1^\circ$ ($c = 0.49$, methanol). **Pharm:** Antiallergic (50µg/mL, leukotriene D₄ antagonist, dissociation constant $K_D = 0.000034$). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 1102.

**21995 Triptobenzene H**

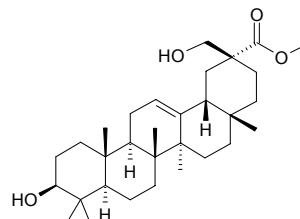
$C_{21}H_{28}O_4$ (344.45). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2073.

**21996 Triptocalline A**

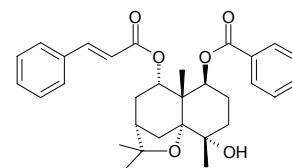
[201534-10-3] $C_{28}H_{42}O_4$ (442.64). **Pharm:** DPPH scavenger inactive (for 40µmol/L DPPH radical, $SC_{50} > 40\mu\text{mol/L}$)^[4378]. **Source:** LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 1521, 4378.

**21997 Triptodihydroxy acid methyl ester**

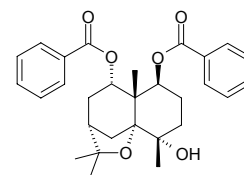
$C_{31}H_{50}O_4$ (486.74). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

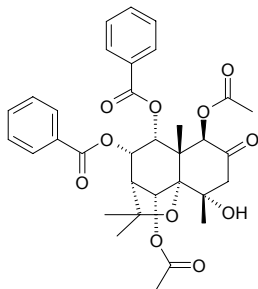
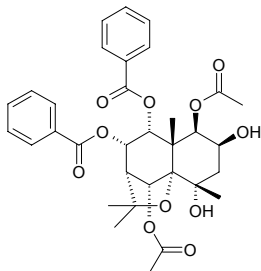
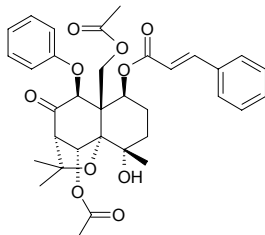
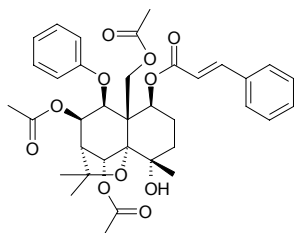
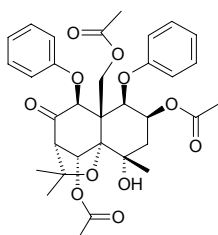
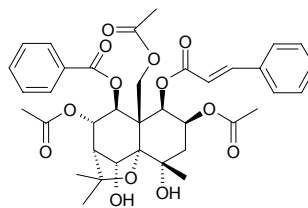
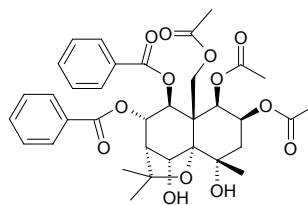
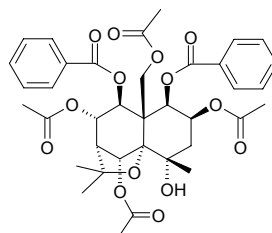
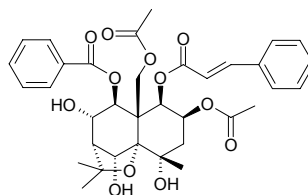
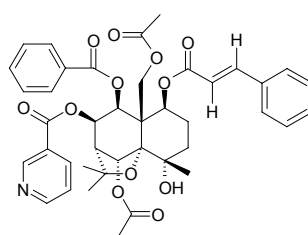
**21998 Triptofordin A**

$C_{31}H_{36}O_6$ (504.63). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**21999 Triptofordin B₁**

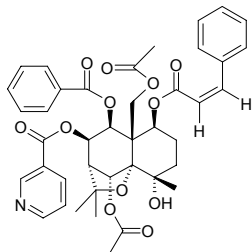
$C_{29}H_{34}O_6$ (478.59). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.



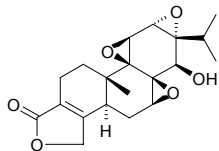
22000 Triptofordin B₂C₃₃H₃₆O₁₁ (608.65). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22001 Triptofordin C₂**C₃₃H₃₈O₁₁ (610.66). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22002 Triptofordin D₁**C₃₄H₃₈O₁₀ (606.68). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22003 Triptofordin D₂**C₃₆H₄₂O₁₁ (650.73). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22004 Triptofordin E**C₃₃H₃₈O₁₁ (610.66). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22005 Triptofordin F₁**C₃₇H₄₂O₁₃ (694.74). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22006 Triptofordin F₂**C₃₅H₄₀O₁₃ (668.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22007 Triptofordin F₃**C₃₇H₄₂O₁₄ (710.74). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22008 Triptofordin F₄**C₃₅H₄₀O₁₂ (652.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22009 Triptofordinine A₁**C₄₁H₄₃NO₁₂ (741.80). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

22010 Triptofordinine A₂

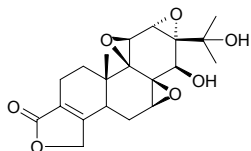
C₄₁H₄₃NO₁₂ (741.80). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22011 Triptolide**

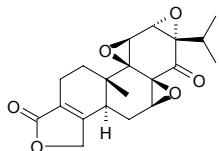
C₂₀H₂₄O₆ (360.41). mp 227~228°C. Pharm: Antineoplastic (mus L₁₂₁₀, 0.1mg/kg, biotic prolonged rate > 159%; mus P₃₈₈, 0.25mg/kg, biotic prolonged rate > 159%; mus KB, *in vitro*, ED₅₀ = 0.0017μg/mL; mus S37 liver cancer and rat W₂₅₆); anti-fertility agent; mutagen; used in treatment of psoriasis, rheumatic arthritis and leukemia; cytotoxic (Bel7402 cell lines, IC₅₀ > 100μmol/L, control Taxol, IC₅₀ = 0.52μmol/L; BGC₈₂₃, IC₅₀ = 0.09μmol/L, Taxol, IC₅₀ > 500μmol/L; HeLa, IC₅₀ = 0.04μmol/L, Taxol, IC₅₀ = 34.25μmol/L; HL-60, IC₅₀ = 0.03μmol/L, Taxol, IC₅₀ = 3.5 × 10⁻⁴ μmol/L; KB, IC₅₀ = 0.03μmol/L, Taxol, not tested; MCF7, IC₅₀ = 0.07μmol/L, Taxol, IC₅₀ = 12.64μmol/L)^[5454]; LD₅₀ (rat, orl) = 1195μg/kg, (rat, sc) = 1136μg/kg. Source: LEI GONG TENG *Tripterygium wilfordii* (root: mean content of 3 origins = 0.0013%^[5508]), LEI GONG TENG *Tripterygium wilfordii* (structural modification of triptonide by *Aspergillus niger*), KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 4, 658, 5454, 5508.

**22012 Triptolidenol**

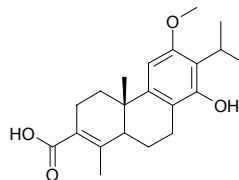
C₂₀H₂₄O₇ (376.41). Source: LEI GONG TENG *Tripterygium wilfordii* (root heart: mean content = 0.0033%^[5508]). Ref: 256, 5508.

**22013 Triptonide**

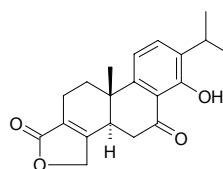
[38647-11-9] C₂₀H₂₂O₆ (358.39). Colorless crystals (dichloroethane-ether), mp 227~228°C, [α]_D²⁵ = -154° (c = 0.369, dichloromethane). Pharm: Cytotoxic (KB, ED₅₀ = 10⁻⁴~10⁻³ μg/mL and 0.021μg/mL); cytotoxic (Bel7402 cell lines, IC₅₀ > 100μmol/L, control Taxol, IC₅₀ = 0.52μmol/L; BGC₈₂₃, IC₅₀ = 0.85μmol/L, Taxol, IC₅₀ > 500μmol/L; HeLa, IC₅₀ = 0.03μmol/L, Taxol, IC₅₀ = 34.25μmol/L; HL-60, IC₅₀ = 0.02μmol/L, Taxol, IC₅₀ = 3.5E-4μmol/L; KB, IC₅₀ = 0.01μmol/L, Taxol, not tested; MCF7, IC₅₀ = 0.10μmol/L, Taxol, IC₅₀ = 12.64μmol/L)^[5454]. Source: LEI GONG TENG *Tripterygium wilfordii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 5, 661, 5454.

**22014 Triptonoditerpenic acid**

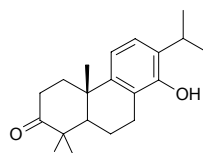
C₂₁H₂₈O₄ (344.45). White acicular crystals, mp 189~191°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 197.

**22015 Triptonolide**

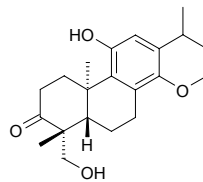
[79548-61-1] C₂₀H₂₂O₄ (326.40). Pharm: Inhibits hyperplasia of lymphocyte (ConA induced, 1ng/mL, InRt = 32.6%, 0.1ng/mL, InRt = 8.7%). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2, 923.

**22016 Triptonoterpene**

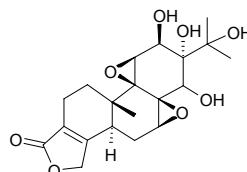
14-Hydroxy-abieta-8,11,13-trien-3-one C₂₀H₂₈O₂ (300.45). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22017 Triptonoterpenol**

C₂₁H₃₀O₄ (346.47). Colorless columnar crystals, mp 197~199°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 78, 660.

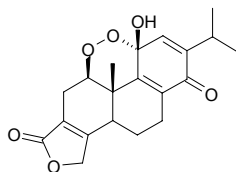
**22018 Triptotetraolide**

C₂₀H₂₆O₈ (394.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

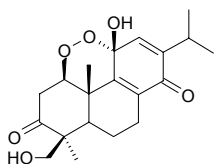


22019 Triptotin A

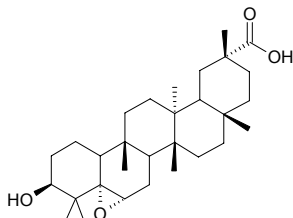
$C_{20}H_{22}O_6$ (358.39). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2076.

**22020 Triptotin B**

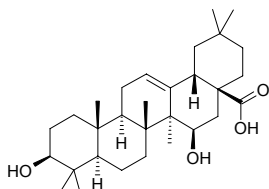
$C_{20}H_{26}O_6$ (362.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2076.

**22021 Triptotin C**

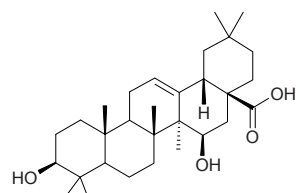
$C_{30}H_{48}O_4$ (472.71). White acicular crystals, mp 250–252°C. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 670.

**22022 Triptotriterpenic acid A**

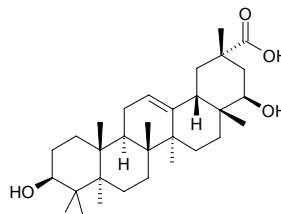
[95753-41-6] $C_{30}H_{48}O_4$ (472.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22023 Triptotriterpenic acid A*‡**

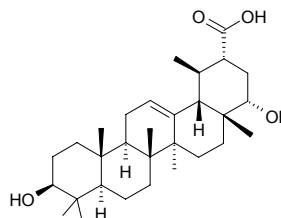
$C_{30}H_{48}O_4$ (472.71). White acicular crystals, mp 249–251°C, 304–308°C (dec), (two melting points), $[\alpha]_D^{13} = +61.5^\circ$ ($c = 0.2$, absolute ethanol). Pharm: Anti-inflammatory (mus, edema on ears caused by oleum crotonis, edema in rat joints caused by agar); Ileal smooth muscle relaxant (gpg, due to histamine). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 903, 905. ‡Note: see compound 22022.

**22024 Triptotriterpenic acid B**

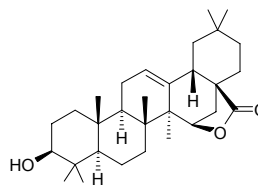
[128301-32-6] $C_{30}H_{48}O_4$ (472.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22025 Triptotriterpenic acid C**

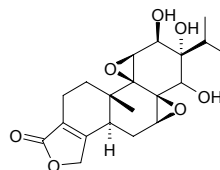
Tripterygic acid A $C_{30}H_{48}O_4$ (472.71). White amorphous powder, mp 247.5–249.5°C. Pharm: DPPH scavenger inactive (for 40μmol/L DPPH radical, $SC_{50} > 40\mu\text{mol/L}$)^[4378]. Source: LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 660, 125, 4378.

**22026 Triptotriterpenoid lactone A**

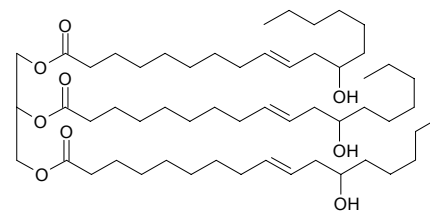
$C_{30}H_{46}O_3$ (454.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22027 Triptriolide**

$C_{20}H_{26}O_7$ (378.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

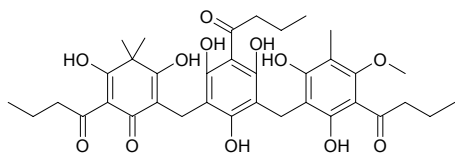
**22028 Triricinolein**

$C_{57}H_{104}O_9$ (933.46). Source: BI MA YOU *Ricinus communis*. Ref: 6.

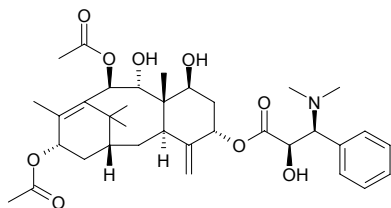


22029 Trisaspidin

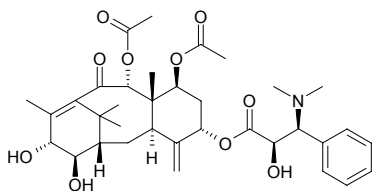
$C_{36}H_{44}O_{12}$ (668.74). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*.
Ref: 660.

**22030 2',7β,9α-Trisdeacetylaustrospicatine**

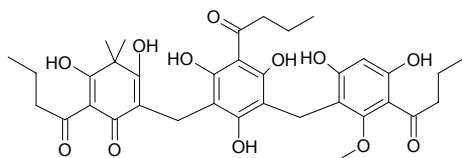
$C_{35}H_{49}NO_9$ (627.78). $[\alpha]_D = +41^\circ$ (CHCl₃). Source: AO DA LI YA HONG
DOU SHAN *Austrotaxus spicata*. Ref: 662.

**22031 2',13α,14β-Trisdeacetylaustrotaxine**

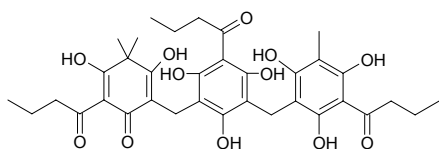
$C_{35}H_{47}NO_{10}$ (641.77). $[\alpha]_D = -21^\circ$ (CHCl₃). Source: AO DA LI YA HONG
DOU SHAN *Austrotaxus spicata*. Ref: 662.

**22032 Trisdesaspidin BBB**

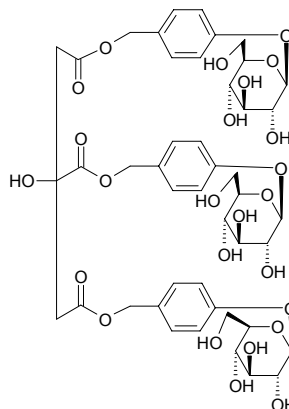
Trisdesaspidin $C_{35}H_{42}O_{12}$ (654.72). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*, MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.

**22033 Trisflavaspidic acid**

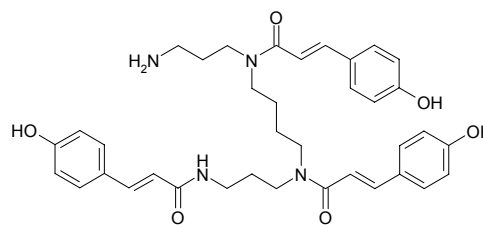
$C_{35}H_{42}O_{12}$ (654.72). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*,
MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.

**22034 Tris-[4-(β-D-glucopyranosyloxy)benzyl]citrate**

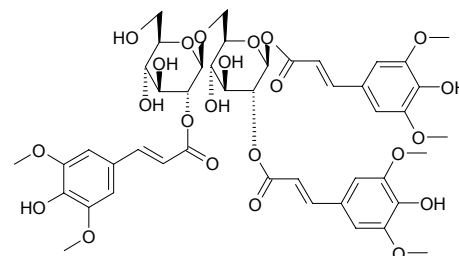
$C_{45}H_{56}O_{25}$ (996.93). Source: TIAN MA *Gastrodia elata*. Ref: 660.

**22035 N1,N5,N10-Tris[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane**

$C_{37}H_{44}N_4O_6$ (640.79). Pharm: Nonpeptide tachykinin NK1 receptor antagonist inactive (guinea pig ileum, $K_i > 1000\text{nmol/L}$, hmn NK₁ receptors on CHO cells, $K_i > 1000\text{nmol/L}$, K_i is the concentration of compound which displaces the log concentration response curve by log 2). Source: DA BO SI JU *Cosmos bipinnata*, GAO GUI CHUN HUANG JU *Anthemis nobilis*, MU⁽³⁾ JU *Matricaria chamomilla* [Syn. *Matricaria recutita*] (dried flower). Ref: 4062.

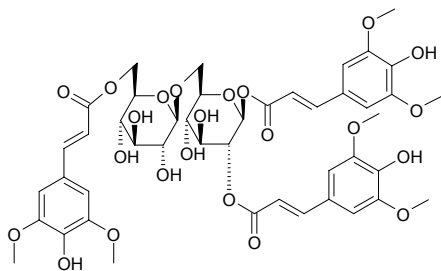
**22036 1,2,2'-Tri-O-E-sinapoyl-β-gentiobiose**

$C_{45}H_{52}O_{23}$ (960.90). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

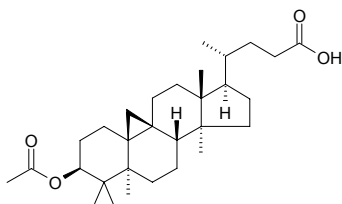


22037 1,2,6'-Tri-*O*-*E*-sinapoyl- β -gentiobiose

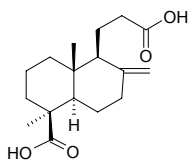
$C_{45}H_{52}O_{23}$ (960.90). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**22038 Trisnorcycloartenoloic acid acetate**

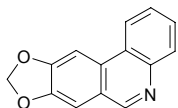
$C_{29}H_{46}O_4$ (458.69). Source: HONG ZU HAO *Artemisia rubripes*. Ref: 660.

**22039 14,15,16-Trisnor-8(17)-labdene-13,19-dioic acid**

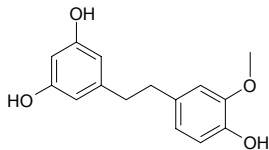
$C_{17}H_{26}O_4$ (294.39). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*]. Ref: 660.

**22040 Trisphaeridine**

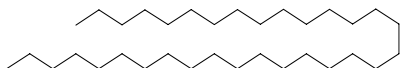
$C_{14}H_9NO_2$ (223.23). Pharm: Antiretroviral and cytotoxic ($ID_{50} = 5.0 \mu\text{g/mL}$, $TC_{50} = 7.5 \mu\text{g/mL}$, TI_{50} (TC_{50}/ID_{50}) = 1.5)^[5026]. Source: SAN QIU BO SI SHI SUAN *Ungernia trisphaera* (leaf), *Pancreatium maritimum* (aerial parts). Ref: 1521, 5026.

**22041 Tristin**

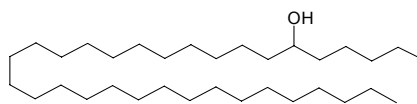
$C_{15}H_{16}O_4$ (260.29). Source: MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 5171.

**22042 n-Tritriacontane**

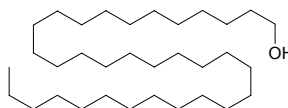
[630-05-7] $C_{33}H_{68}$ (464.91). mp 72°C, bp 208°C/0mmHg. Source: GUANG JIN QIAN CAO *Desmodium styracifolium*, JI CHANG LANG DU *Euphorbia esula*. Ref: 6.

**22043 6-Tritriacontanol**

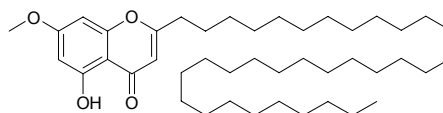
$C_{33}H_{68}O$ (480.91). Source: XIA YE XIANG PU *Typha angustifolia*. Ref: 2, 660.

**22044 Tritriacontanol**

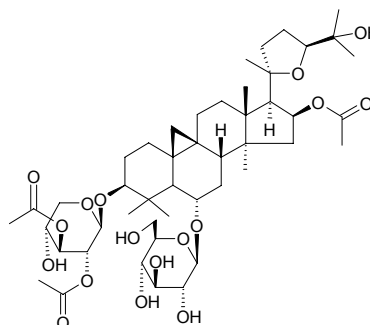
$C_{33}H_{68}O$ (480.91). Source: JI CHANG LANG DU *Euphorbia esula*, JIA MA BIAN *Stachytarpheta jamaicensis*, QIU SUI QIAN JIN BA *Flemingia strobilifera*, TU NIU XI *Achyranthes aspera*, ZHI KE *Citrus aurantium*. Ref: 660, 1521.

**22045 2-Tritriacontyl-5-hydroxy-7-methoxychromone**

[144049-68-3] $C_{43}H_{74}O_4$ (655.06). Colorless rhombic crystals (petroleum ether-ethyl acetate), mp 83°C. Pharm: Antibacterial (*Bacillus pyocyaneus*, *Bacillus coli*). Source: FAN MA *Agave americana*. Ref: 1170.

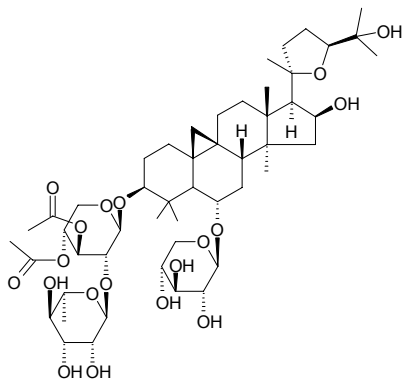
**22046 Trojanoside I**

3-*O*- β -(2',3'-Di-*O*-acetyl)-*D*-xylopyranosyl-6-*O*- β -*D*-glucopyranosyl-16-*O*-acetoxy-20(*R*),24(*S*)-epoxycycloartane-3 β ,6 α ,16 β ,25-tetrol $C_{47}H_{74}O_{17}$ (911.10). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

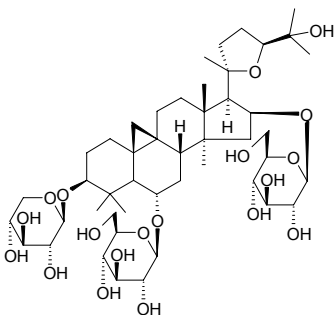


22047 Trojanoside J

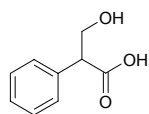
3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -(3',4'-di-*O*-acetyl)-*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 β ,6 α ,16 β ,25-tetrol C₅₀H₈₀O₁₉ (985.18). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

**22048 Trojanoside K**

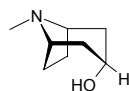
3-*O*- β -*D*-Xylopyranosyl-6,16-di-*O*- β -*D*-glucopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 β ,6 α ,16 β ,25-tetrol C₄₇H₇₈O₁₉ (947.13). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

**22049 Tropic acid**

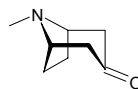
[529-64-6] C₉H₁₀O₃ (166.18). mp (\pm) 118°C. Source: OU MAN TUO LUO GEN *Datura stramonium*. Ref: 6, 660.

**22050 Tropine**

3-Tropanol [120-29-6] C₈H₁₅NO (141.21). mp 63°C, bp 229°C. Source: LANG DANG GEN *Hyoscyamus niger*, MAN TUO LUO GEN *Datura metel*, MAN TUO LUO ZI *Datura metel*, MAO MAN TUO LUO GEN *Datura innoxia*, SAI LANG DANG *Anisodus luridus*, ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*]. Ref: 6, 660.

**22051 Tropinone**

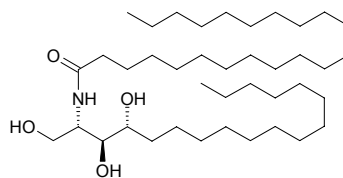
[532-24-1] C₈H₁₃NO (139.20). mp 42°C, bp 224~225°C. Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 6.

**22052 Tropolone**

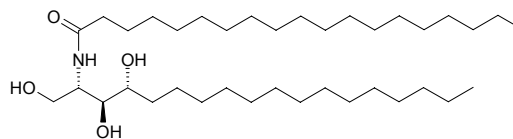
Purpurocatechol; 2-Hydroxy-2,4,6-cycloheptatrien-1-one [533-75-5] C₇H₆O₂ (122.12). mp 49~50°C. Source: SHAN CI BAI *Juniperus taiwaniana*. Ref: 6.

**22053 Trufflesphingolipid A**

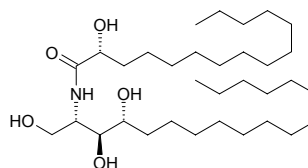
C₄₀H₈₁NO₄ (640.10). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22054 Trufflesphingolipid B**

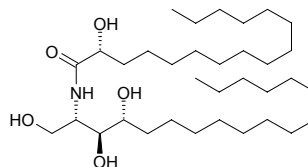
C₃₇H₇₅NO₄ (598.01). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22055 Trufflesphingolipid C**

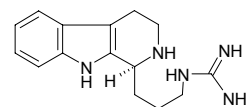
C₃₃H₆₇NO₅ (557.91). Pharm: Phospholipase PLA₂inhibitor. Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22056 Trufflesphingolipid D**

C₃₄H₆₉NO₅ (571.93). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

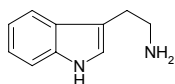
**22057 Trypargine**

C₁₅H₂₁N₅ (271.37). Pharm: LD (mus, iv) = 10mg/kg. Source: African frog. Ref: 658.

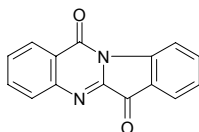


22058 Tryptamine

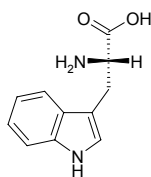
3-(2-Aminoethyl)indole [61-54-1] $C_{10}H_{12}N_2$ (160.22). mp 116–117°C, bp 137°C/0.15mmHg. **Pharm:** Precursor of indoleacetic acid. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, FAN QIE *Lycopersicon esculentum*, HUANG GUA *Cucumis sativus*, MA LING SHU *Solanum tuberosum*, MAI YA *Hordeum vulgare*, YAN CAO *Nicotiana tabacum*, YU SHU SHU *Zea mays*. **Ref:** 2, 658.

**22059 Tryptanthrine**

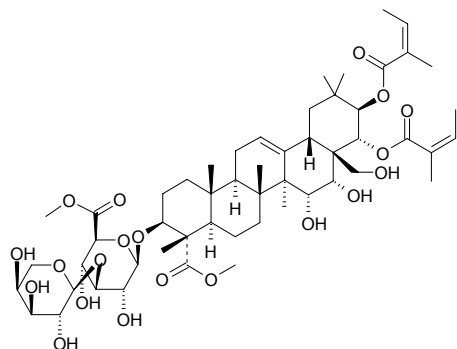
[13220-57-0] $C_{15}H_8N_2O_2$ (248.24). **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 25 µg/mL, *Bacillus* spp.); antifungal (*Trichophyton* spp., MIC = 3.1 µg/mL, cutaneous fungi); anti-inflammatory (inhibits synthesis of prostaglandin and leukotriene; iNOS inhibitor)^[4986]. **Source:** BAN LAN GEN *Isatis indigotica*, DA QING YE *Isatis indigotica*, LIAO LAN GUO *Polygonum tinctorium*, MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], OU ZHOU SONG LAN *Isatis tinctoria*, OU ZHOU SONG LAN *Isatis tinctoria* (leaf). **Ref:** 2, 658, 660, 4967, 5001.

**22060 Tryptophan**

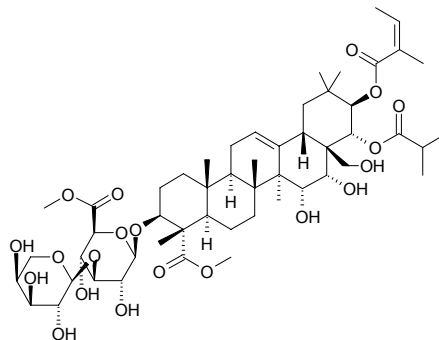
2-Amino-3-(3-indolyl)propanoic acid [73-22-3] $C_{11}H_{12}N_2O_2$ (204.23). mp (+) 275–282°C, (–) 289°C (dec), (±) 283–285°C. **Pharm:** Antidepressant; essential amino acid. **Source:** CAN JIAN *Bombyx mori*, CANG ZHU *Atractylodes lancea*, DA QING YE *Isatis indigotica*, GUI GAI *Coprinus atramentarius*, GOU QI ZI *Lycium chinense*, HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HU ZHANG *Polygonum cuspidatum*. **Ref:** 6, 658, 660, 1521, 2537, 4186, 4348.

**22061 TR-saponin A**

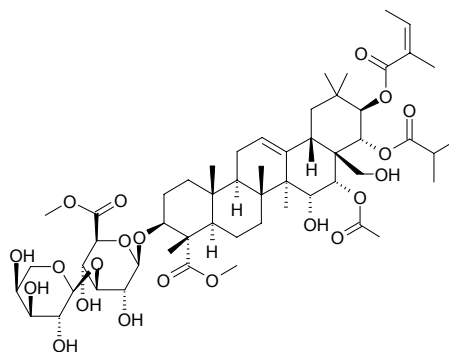
$C_{53}H_{80}O_{20}$ (1037.22). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22062 TR-saponin B**

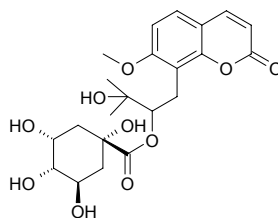
$C_{53}H_{82}O_{20}$ (1039.23). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22063 TR-saponin C**

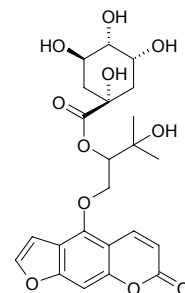
$C_{53}H_{84}O_{21}$ (1081.27). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22064 Tschimganic ester A**

$C_{22}H_{28}O_{10}$ (452.46). $[\alpha]_D^{25} = -5.0^\circ$ ($c = 0.2$, MeOH). **Source:** *Prangos tschimganica* (aerial parts). **Ref:** 3552.

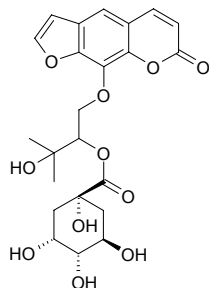
**22065 Tschimganic ester B**

$C_{23}H_{26}O_{11}$ (478.46). $[\alpha]_D^{25} = -8.0^\circ$ ($c = 0.2$, MeOH). **Source:** *Prangos tschimganica* (aerial parts). **Ref:** 3552.

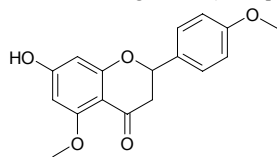


22066 Tschimganic ester C

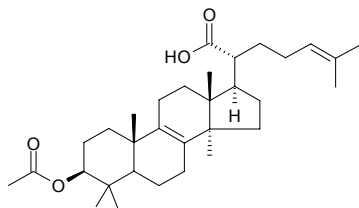
$C_{23}H_{26}O_{11}$ (478.46). $[\alpha]_D^{25} = -8.4^\circ$ ($c = 0.2$, MeOH). Source: *Prangos tschimganica* (aerial parts). Ref: 3552.

**22067 Tsugafolin**

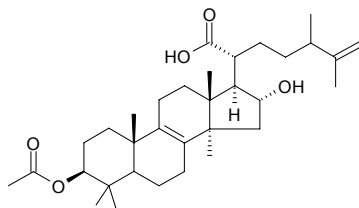
7-Hydroxy-5,4'-dimethoxyflavanone $C_{17}H_{16}O_5$ (300.31). Prisms (EtOH), mp 203°C (lit. mp $208\text{--}210^\circ\text{C}$), $[\alpha]_D^{19.9} = -32.2^\circ$ ($c = 0.310$, C_5H_5N); $[\alpha]_D^{23} = +7.0^\circ$ ($c = 0.46$, C_5H_5N). Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**22068 Tsugaric acid A**

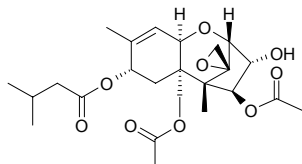
$C_{32}H_{50}O_4$ (498.75). mp $181\text{--}182^\circ\text{C}$, $[\alpha]_D = +6^\circ$. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235, 4045.

**22069 Tsugaric acid B**

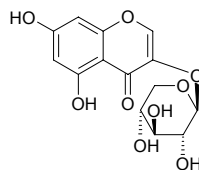
$C_{33}H_{52}O_5$ (528.78). mp $240\text{--}242^\circ\text{C}$, $[\alpha]_D = +6^\circ$. Source: LING ZHI *Ganoderma lucidum*. Ref: 2235, 4045.

**22070 T2 Toxin**

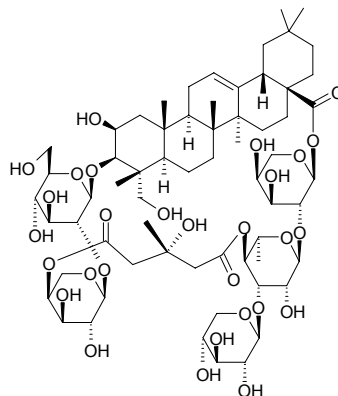
$C_{24}H_{34}O_9$ (466.54). Pharm: Irritant (to skin); supertoxic agent. Source: *Fusarium tricinctum*. Ref: 658.

**22071 3,5,7-Trihydroxychromone 3-O-β-D-xylopyranoside**

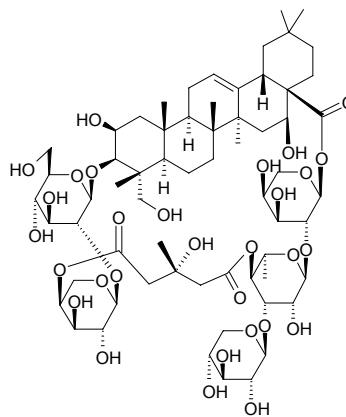
$C_{14}H_{14}O_9$ (326.26). Achromatous prisms, mp $226\text{--}228^\circ\text{C}$, $[\alpha]_D^{25} = -81.4^\circ$ ($c = 0.07$, MeOH). Source: MA YIN HUA *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*]. Ref: 4859.

**22072 Tubeimoside A**

Tubeimoside I $C_{63}H_{98}O_{29}$ (1319.47). Pharm: Antineoplastic (*in vivo*); cytotoxic (strong activity against cancer and cancer promoter). Source: JIA BEI MU *Bolbostemma paniculatum* (tuber: content scope of 10 batch samples = $0.84\%\text{--}2.01\%$ ^[5501, 5508]; mean content = 1.204% ^[5508]). Ref: 658, 5501, 5508.

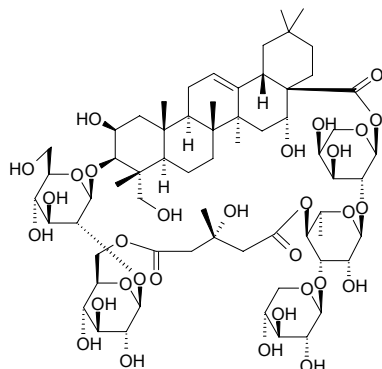
**22073 Tubeimoside B**

Tubeimoside II $C_{63}H_{98}O_{30}$ (1335.47). Source: JIA BEI MU *Bolbostemma paniculatum*. Ref: 5501.

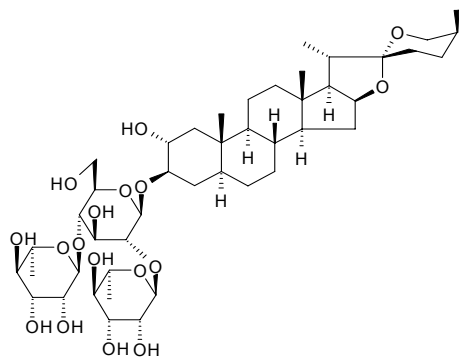


22074 Tubeimoside C

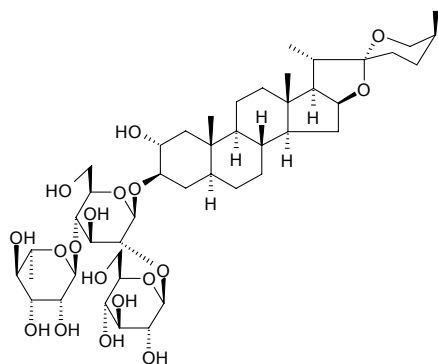
Tubeimoside III C₆₄H₁₀₀O₃₁ (1365.49). Source: JIA BEI MU *Bolbostemma paniculatum*. Ref: 5501.

**22075 Tubeimoside D**

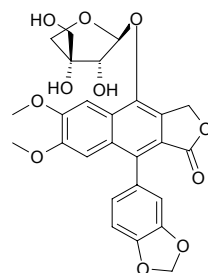
C₄₅H₇₄O₁₇ (887.08). Amorphous solid, $[\alpha]_D^{24} = -31.2$ ($c = 0.33$, MeOH). Source: JIA BEI MU *Bolbostemma paniculatum*, JIU CAI *Allium tuberosum*. Ref: 692, 5501.

**22076 Tubeimoside E**

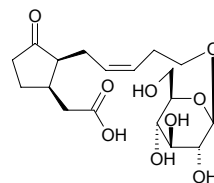
C₄₅H₇₄O₁₈ (903.08). Amorphous solid, $[\alpha]_D^{24} = -29.5^\circ$ ($c = 0.30$, MeOH). Source: JIA BEI MU *Bolbostemma paniculatum*, JIU CAI *Allium tuberosum*. Ref: 692, 5501.

**22077 Tuberculatin**

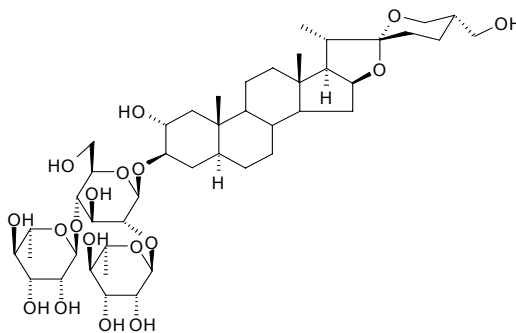
[90706-10-8] C₂₆H₂₄O₁₁ (512.47). Pharm: Cytotoxic (hmn LoVo Cell Line *in Vitro*, IC₅₀ = (13.92±1.26)μl/mL)^[4206]; cytotoxic (*in vitro*, ED₅₀ = 0.0019μg/mL; Hep3B, ED₅₀ = 0.014μg/mL, control 5-Fluorouracil, ED₅₀ = 0.0715μg/mL; SiHa, ED₅₀ = 0.12μg/mL, control Actinomycin D, ED₅₀ = 0.00081μg/mL; HepG2, ED₅₀ = 0.040μg/mL, control 5-Fluorouracil, ED₅₀ = 0.033μg/mL; HT29, ED₅₀ = 0.29μg/mL, control 5-Fluorouracil, ED₅₀ = 0.074μg/mL; HCT116, ED₅₀ = 0.28μg/mL, control 5-Fluorouracil, ED₅₀ = 0.48μg/mL; MCF7, ED₅₀ = 0.97μg/mL; MCF7-ras, ED₅₀ = 0.090μg/mL)^[4612]; enhances TNF-α formation (mouse macrophage-like TRAW264.7 cells, stimulated by LPS, strong activity)^[4612]. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.0004%*dw*)^[4612], LIU ZHUANG DAN YE YUN XIANG *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*], *Haplophyllum patavinum* (shoot). Ref: 1521, 4206, 4612.

**22078 Tuberonic acid glucoside**

C₁₈H₂₈O₉ (388.42). Source: YOU GAN YE *Phyllanthus emblica* (leaf and branch). Ref: 4205.

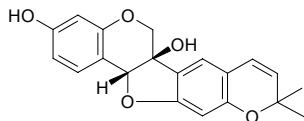
**22079 Tuberoside A**

(2α,3β,5α,25S)-2,3,27-Trihydroxyspirosterane 3-O-α-L-rhamnopyranoyl-(1→2)-O-[α-L-rhamnopyranoyl-(1→4)]-β-D-glucopyranoside C₄₅H₇₄O₁₈ (903.08). Amorphous powder, mp 292~293°C, $[\alpha]_D^{25} = -33^\circ$ ($c = 0.02$, MeOH). Source: JIU CAI *Allium tuberosum* (seed). Ref: 5166.

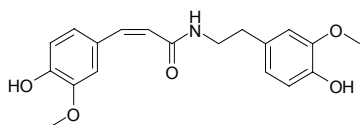


22080 Tuberosin

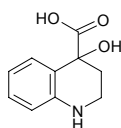
Kakkonein C₂₀H₁₈O₅ (338.36). Acicular crystals (chloroform–ethane), mp 213°C, [α]_D = +216° (acetone). **Pharm:** Antibacterial (*Staphylococcus* sp., EC = 250µg/mL; *Mycobacterium tuberculosis*, EC = 125µg/mL); antifungal; anti-inflammatory (swollen foot caused by carrageenan). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], KUAI JING GE *Pueraria tuberosa*, MA LING SHU *Solanum tuberosum*. **Ref:** 2, 661.

**22081 Tuberosine A**

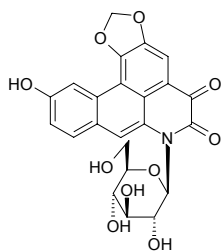
N-cis-Feruloyl-3-methylidopamine C₁₉H₂₁NO₅ (343.38). Colorless oil. **Source:** JIU ZI *Allium tuberosum*. **Ref:** 782.

**22082 Tuberosine B**

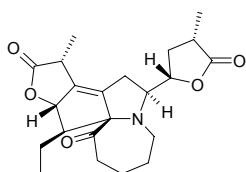
1,2,3,4-Tetrahydro-4-hydroxy-4-quinolin carboxylic acid C₁₀H₁₁NO₃ (193.20). Yellowish powder, [α]_D¹⁷ = +3.65° (*c* = 0.62, acetone). **Source:** JIU ZI *Allium tuberosum*. **Ref:** 878.

**22083 Tuberosinone-N-β-glucoside**

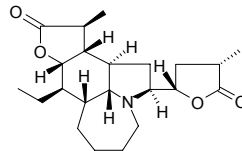
C₂₃H₁₉NO₁₀ (469.41). **Source:** KUAI JING MA DOU LING *Aristolochia tuberosa*. **Ref:** 660.

**22084 Tuberostemoenone**

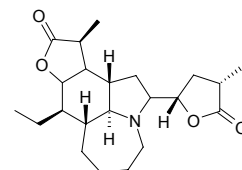
C₂₂H₂₉NO₅ (387.48). Colorless oleaginous substance. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 673.

**22085 Tuberostemonine**

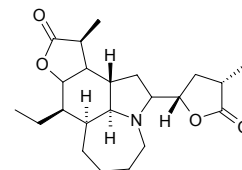
[6879-01-2] C₂₂H₃₃NO₄ (375.51). mp 86–88°C. **Source:** BAI BU *Stemona tuberosa* (in 1934, the compound was isolated from the plant)^[5505], ZHI LI BAI BU *Stemona sessilifolia*. **Ref:** 6, 660, 5505.

**22086 Tuberostemonine H**

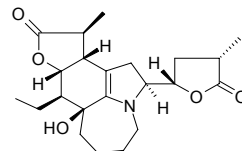
C₂₂H₃₃NO₄ (375.51). mp 183–185°C, [α]_D²⁰ = +77.6° (*c* = 0.1, MeOH). **Pharm:** Antitussive (guinea pig cough model, 133µmol/kg ip, cough InRt = 57%, *p* < 0.05). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.

**22087 Tuberostemonine J**

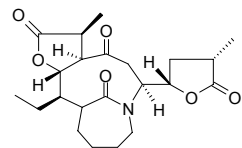
C₂₂H₃₃NO₄ (375.51). mp 180–182°C, [α]_D²⁰ = +36.4° (*c* = 0.1, MeOH). **Pharm:** Antitussive (guinea pig cough model, 133µmol/kg ip, cough InRt = 45%, *p* < 0.05). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.

**22088 Tuberostemonol**

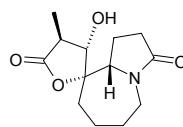
C₂₂H₃₁NO₅ (389.50). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660.

**22089 Tuberostemonone**

C₂₂H₃₁NO₆ (405.50). Colorless prismatic crystals. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660, 673.

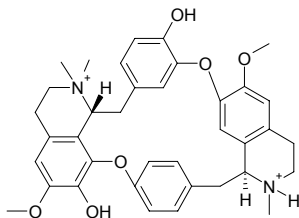
**22090 Tuberostemospirine**

C₁₃H₁₉NO₄ (253.30). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660.

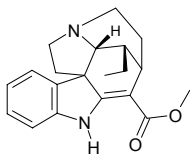


22091 (+)-Tubocurarine

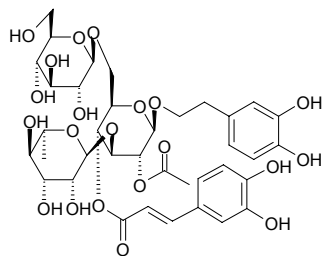
$C_{37}H_{42}N_2O_6^{2+}$ (610.76). **Pharm:** Skeletal muscle relaxant. **Source:** NAN MEI FANG JI *Chondrodendron tomentosum*. **Ref:** 658, 1521.

**22092 20(S)-Tubotaiwine**

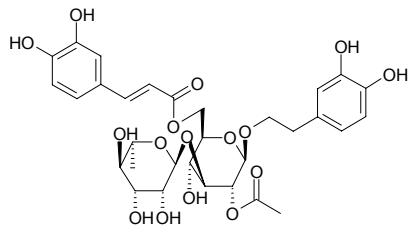
$C_{20}H_{24}N_2O_2$ (324.43). **Source:** XIANG PI MU *Alstonia scholaris* (leaf). **Ref:** 5283.

**22093 Tubuloside A**

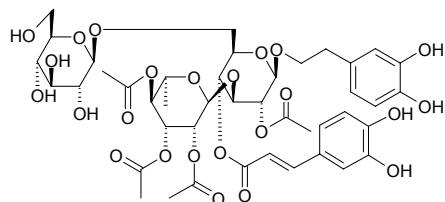
$C_{37}H_{48}O_{21}$ (828.78). **Source:** ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22094 Tubuloside B**

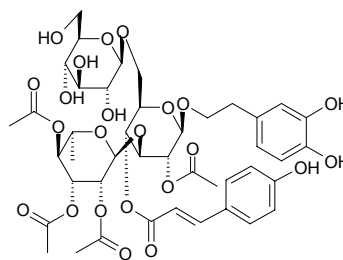
[112516-04-8] $C_{31}H_{38}O_{16}$ (666.64). **Pharm:** inhibits onset of senility (rat, hepatic microsome, Fe^{2+}/VC -induced lipid peroxidation $IC_{50} = 8.6\text{mmol/L}$, $Fe^{3+}/ADP/NADPH$ -induced lipid peroxidation $IC_{50} = 28.0\text{mmol/L}$; free radical scavenger). **Source:** ROU CONG RONG *Cistanche deserticola*. **Ref:** 717, 1707.

**22095 Tubuloside C**

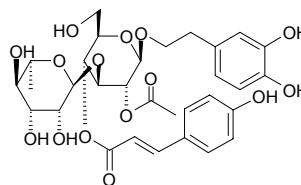
$C_{43}H_{54}O_{24}$ (954.90). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22096 Tubuloside D**

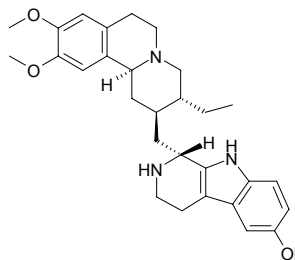
$C_{43}H_{54}O_{23}$ (938.90). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22097 Tubuloside E**

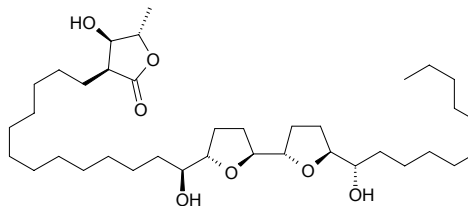
$C_{31}H_{38}O_{15}$ (650.64). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22098 Tubulosine**

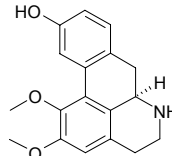
$C_{29}H_{37}N_3O_3$ (475.64). **Pharm:** Antiamebic; antineoplastic; supertoxic agent. **Source:** TU GEN *Cephaelis ipecacuanha*. **Ref:** 658.

**22099 Tucumanin**

$C_{37}H_{68}O_7$ (624.95). **Wax. Pharm:** Mitochondrial complex I selective inhibitor (NADH oxidase $IC_{50} = (0.57 \pm 0.07)\text{nmol/L}$, $p < 0.001$, control Rotenone, $IC_{50} = (5.10 \pm 0.09)\text{nmol/L}$). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 5024.

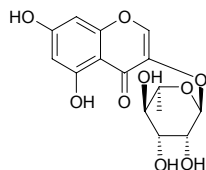
**22100 Tuduranine**

$C_{18}H_{19}NO_3$ (297.36). **Source:** QING FENG TENG *Sinomenium acutum*. **Ref:** 6.



22101 Tufulingoside

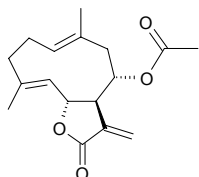
5,7-Dihydroxy-chromone-3- α -L-rhamnopyranoside C₁₅H₁₆O₉ (340.29). Yellowish clustered crystals (MeOH-CHCl₃), mp 227~229°C. Source: TU FU LING *Smilax glabra*. Ref: 499.

**22102 Tulipalin**

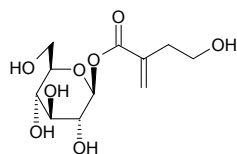
Tulipalin A [547-65-9] C₅H₆O₂ (98.10). mp 85~86°C. Source: YU JIN XIANG *Tulipa gesneriana*. Ref: 5.

**22103 Tulipinolide**

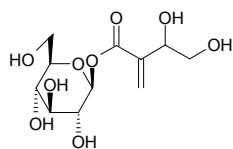
[24164-12-3] C₁₇H₂₂O₄ (290.36). mp 181°C (dec). Pharm: Cytotoxic (KB, ED₅₀ = 0.46µg/mL). Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*, MO XI GE HAO *Artemisia mexicana* var. *angustifolia*, SHE TAI *Conocephalum conicum*, *Pyrethrum* sp. Ref: 5.

**22104 Tuliposide A**

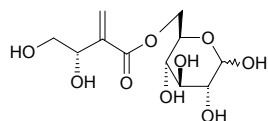
C₁₁H₁₈O₈ (278.26). Pharm: Allergen; antifungal. Source: YU JIN XIANG ZA JIAO ZHONG *Tulipa hybrida*, YU JIN XIANG *Tulipa gesneriana*. Ref: 6, 658.

**22105 Tuliposide B**

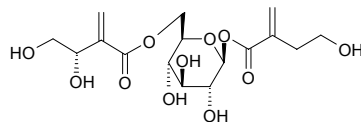
C₁₁H₁₈O₉ (294.26). Pharm: Allergen; antifungal. Source: YU JIN XIANG ZA JIAO ZHONG *Tulipa hybrida*, YU JIN XIANG *Tulipa gesneriana*. Ref: 6, 658.

**22106 6-Tuliposide B**

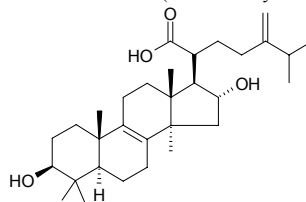
6-((S)-3,4-Dihydroxy-2-methylenebutanoate)-D-glucopyranose C₁₁H₁₈O₉ (294.26). Syrup. Source: TU ER QI YU JIN XIANG *Tulipa turkestanii*. Ref: 2330.

**22107 Tuliposide F**

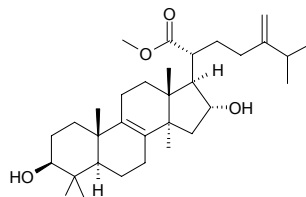
1-(4-Hydroxy-2-methylenebutanoate)-6-((S)-3,4-dihydroxy-2-methylenebutanoate)- β -D-glucopyranose C₁₆H₂₄O₁₁ (392.36). Syrup. Source: TU ER QI YU JIN XIANG *Tulipa turkestanii*. Ref: 2330.

**22108 Tumulosic acid**

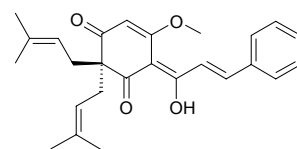
C₃₁H₅₀O₄ (486.74). mp 306°C (dec). Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound β -Carotene, relative percentage = 8.6%)^[4616]. Source: FU LING *Poria cocos* (sclerotium: yield = 0.00025%dw)^[4616]. Ref: 2, 6, 4616.

**22109 Tumulosic acid methyl ester**

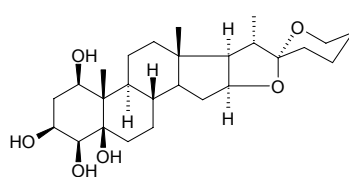
C₃₂H₅₂O₄ (500.77). Source: FU LING *Poria cocos*. Ref: 660.

**22110 Tunicatachalcone**

3',3'-Di-(γ,γ -dimethylallyl)-2',4'-di-oxo-enolchalcone C₂₆H₃₀O₄ (406.53). mp 68~69°C. Source: BAO MO HUI MAO DOU *Tephrosia tunicata*. Ref: 5109.

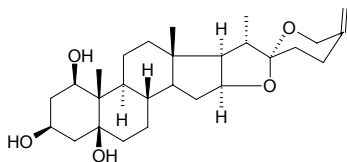
**22111 Tupichigenin D**

Spirost-25(27)-en-1 β ,3 α ,4 β ,5 β -tetraol C₂₇H₄₂O₆ (462.63). White amorphous powder, [α]_D²⁴ = -83.6° (c = 0.16, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

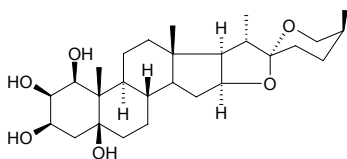


22112 Tupichigenin E

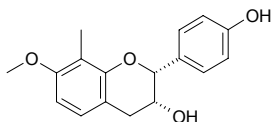
Spirost-25(27)-en-1 β ,3 β ,5 β -triol C₂₇H₄₂O₅ (446.63). White amorphous powder, $[\alpha]_D^{24} = -24.4^\circ$ ($c = 0.18$, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22113 Tupichigenin F**

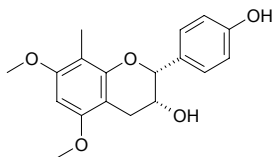
(25S)-Spirost-1 β ,2 β ,3 β ,5 β -tetraol C₂₇H₄₄O₆ (464.65). White amorphous powder, $[\alpha]_D^{24} = -61.8^\circ$ ($c = 0.17$, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22114 Tupichinol A**

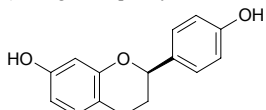
(2*R*,3*R*)-3,4'-Dihydroxy-7-methoxy-8-methylflavan C₁₇H₁₈O₄ (286.33). Colorless prisms (EtOAc), mp 141~142°C, $[\alpha]_D^{24} = -40.1^\circ$ ($c = 0.034$, MeOH). Pharm: Cytotoxic (*in vitro*, hmh gastric tumor cell NUGC, 50 μ mol/L, InRt = 80%)^[4676]. Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.083%dw). Ref: 4676.

**22115 Tupichinol B**

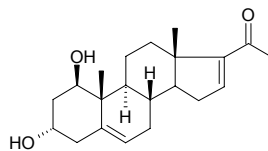
(2*R*,3*R*)-3,4'-Dihydroxy-5,7-dimethoxy-8-methylflavan C₁₈H₂₀O₅ (316.36). Colorless prisms (CHCl₃-MeOH), mp 158~159°C, $[\alpha]_D^{24} = -64.5^\circ$ ($c = 0.048$, MeOH). Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.066%dw). Ref: 4676.

**22116 Tupichinol C**

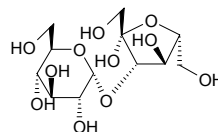
(2*R*)-7,4'-Dihydroxyflavan C₁₅H₁₄O₃ (242.28). Colorless plates, $[\alpha]_D^{24} = +190.0^\circ$ ($c = 0.04$, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.007%dw). Ref: 4676.

**22117 Tupipregnenolone**

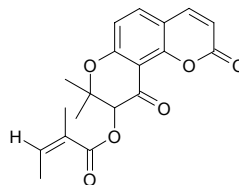
1 β ,3 α -Dihydroxypregna-5,16-dien-20-one C₂₁H₃₀O₃ (330.47). White amorphous solid, $[\alpha]_D^{24} = -19.3^\circ$ ($c = 0.88$, CHCl₃). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22118 Turanose**

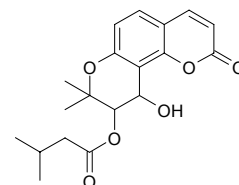
3-*O*- α -D-Glucopyranosyl- β -D-fructopyranose [58166-22-6] C₁₂H₂₂O₁₁ (342.30). mp 157°C (dec). Source: KUAN YE XIANG PU *Typha latifolia*. Ref: 6, 660.

**22119 Turgeniifolin A**

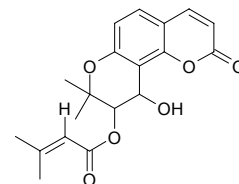
C₁₉H₁₈O₆ (342.35). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**22120 Turgeniifolin B**

C₁₉H₂₂O₆ (346.38). Colorless needles (petroleum ether), mp 132~134°C, $[\alpha]_D^{12} = 0^\circ$ ($c = 0.51$, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

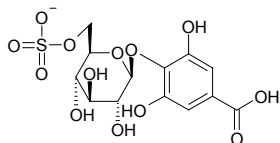
**22121 Turgeniifolin C**

C₁₉H₂₀O₆ (344.37). Colorless needles (petroleum ether), mp 202~203°C, $[\alpha]_D^{12} = 0^\circ$ ($c = 0.23$, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

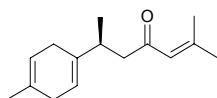


22122 Turgorin

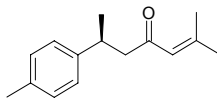
$C_{13}H_{15}O_{13}S^-$ (411.33). **Pharm:** Phytohormone. **Source:** CI HUAI HUA *Robinia pseudoacacia*, HAN XIU CAO *Mimosa pudica*, KA LUO JIN HE HUAN *Acacia karroo*, SAN CI ZAO JIA *Gleditsia triacanthos*, SHAN ZUO JIANG CAO *Oxalis acetosella*. **Ref:** 658.

**22123 Turmerone**

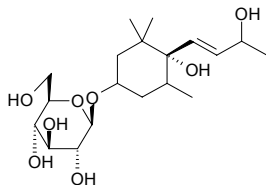
β -Turmerone $C_{15}H_{22}O$ (218.34). bp 159–160°C/10mmHg. **Pharm:** Anti-inflammatory (RAW264.7 cells, inhibits LPS-induced PGE₂ production)^[44151]. **Source:** JIANG HUANG *Curcuma longa*, YU JIN *Curcuma aromatica*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 660, 4415.

**22124 (+)-*ar*-Turmerone**

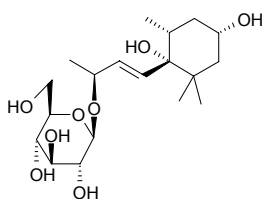
$C_{15}H_{20}O$ (216.33). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (52.9 \pm 2.8)%), control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]; anti-inflammatory (RAW264.7 cells, inhibits LPS-induced PGE₂ production)^[44151]. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660, 4150, 4415.

**22125 Turpinionoside A**

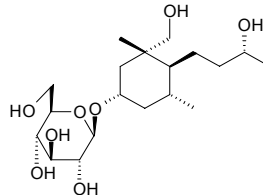
(3*S*,5*R*,6*S*,9*S*)-3,6,9-Trihydroxymegastigman-7-ene 3-*O*- β -D-glucopyranoside $C_{19}H_{34}O_8$ (390.48). Amorphous powder, $[\alpha]_D^{22} = -38.4^\circ$ ($c = 0.86$, MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22126 Turpinionoside B**

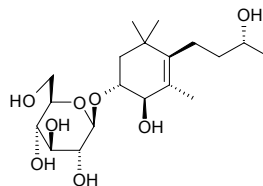
(3*S*,5*R*,6*S*,9*S*)-3,6,9-Trihydroxymegastigman-7-ene 9-*O*- β -D-glucopyranoside $C_{19}H_{34}O_8$ (390.48). Amorphous powder, $[\alpha]_D^{22} = -76.3^\circ$ ($c = 0.77$, MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf), YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). **Ref:** 2583, 4188.

**22127 Turpinionoside C**

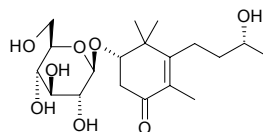
(1*S*,3*S*,5*R*,6*S*,9*R*)-3,9,12-Trihydroxymegastigmane 3-*O*- β -D-glucopyranoside $C_{19}H_{36}O_8$ (392.49). Amorphous powder, $[\alpha]_D^{22} = -17.3^\circ$ ($c = 0.87$, MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22128 Turpinionoside D**

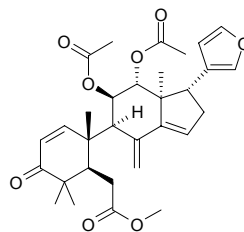
(3*S*,4*R*,9*R*)-3,4,6-Trihydroxymegastigman-5-ene 3-*O*- β -D-glucopyranoside $C_{19}H_{34}O_8$ (390.48). Amorphous powder, $[\alpha]_D^{22} = -58.6^\circ$ ($c = 0.43$, MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22129 Turpinionoside E**

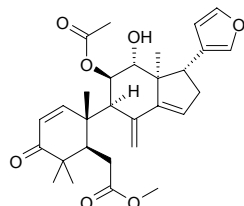
(2*S*,9*R*)-2,9-Dihydroxymegastigman-5-en-4-one 2-*O*- β -D-glucopyranoside $C_{19}H_{32}O_8$ (388.46). Amorphous powder, $[\alpha]_D^{22} = -9.7^\circ$ ($c = 0.21$, MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22130 Turraflorin A**

$C_{31}H_{38}O_8$ (538.64). White crystals, mp 142–144°C, $[\alpha]_D = +17^\circ$ ($c = 0.071$, $CHCl_3$). **Source:** DUO HUA U LIAN *Turraea floribunda* (seed). **Ref:** 3819.

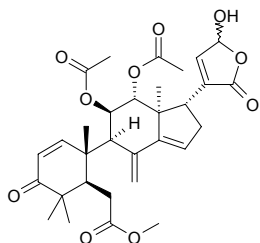
**22131 Turraflorin B**

$C_{29}H_{36}O_7$ (496.61). White crystals, mp 139–142°C, $[\alpha]_D = +89^\circ$ ($c = 0.178$, $CHCl_3$). **Source:** DUO HUA U LIAN *Turraea floribunda* (seed). **Ref:** 3819.

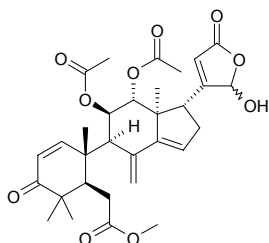


22132 Turraflorin D

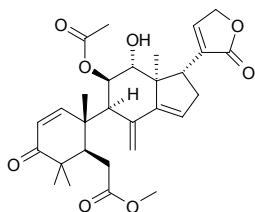
$C_{31}H_{38}O_{10}$ (570.64). Amorphous. Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22133 Turraflorin E**

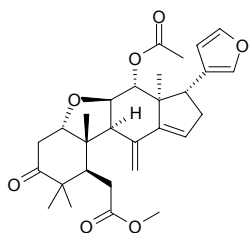
$C_{31}H_{38}O_{10}$ (570.64). Yellow amorphous. Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22134 Turraflorin F**

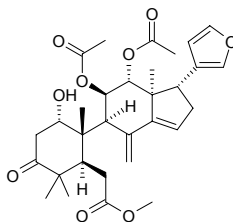
$C_{29}H_{36}O_8$ (512.61). Pale yellow amorphous, $[\alpha]_D = +97^\circ$ ($c = 0.092$, $CHCl_3$). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22135 Turraflorin G**

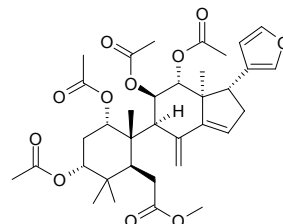
$C_{29}H_{36}O_7$ (496.61). White crystals, mp 122~124°C ($CH_2Cl_2-CH_3OH$), $[\alpha]_D = +77^\circ$ ($c = 0.218$, $CHCl_3$). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22136 Turraflorin H**

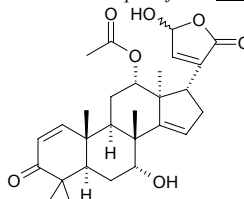
$C_{31}H_{40}O_9$ (556.66). Fine white crystals, mp 134~135°C, $[\alpha]_D = +23^\circ$ ($c = 0.119$, $CHCl_3$). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22137 Turraflorin I**

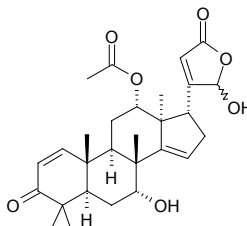
$C_{35}H_{46}O_{11}$ (642.75). Fine white crystals, mp 143~145°C ($CH_2Cl_2-CH_3OH$), $[\alpha]_D = +14^\circ$ ($c = 0.074$, $CHCl_3$). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22138 Turraparvin A**

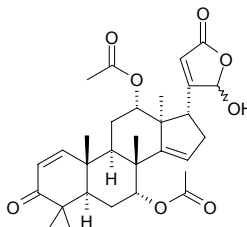
$C_{28}H_{36}O_7$ (484.59). White crystals, mp 108~110°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**22139 Turraparvin B**

$C_{28}H_{36}O_7$ (484.59). White crystals, mp 142~144°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

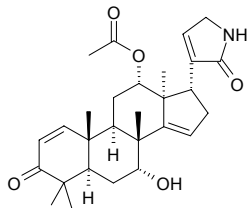
**22140 Turraparvin C**

$C_{30}H_{38}O_8$ (526.63). White crystals, mp 117~119°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

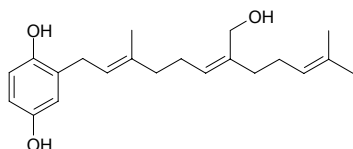


22141 Turrarparvin D

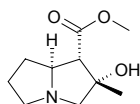
$C_{28}H_{37}NO_5$ (467.61). White crystals, mp 131~133°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**22142 Turricolol E**

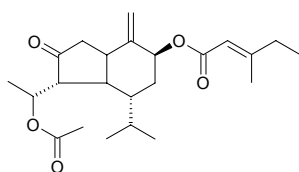
$C_{21}H_{30}O_3$ (330.47). Pharm: Dermatitic (causes contact dermatitis). Source: family Hydrophyllaceae spp. Ref: 658.

**22143 Tussilagine**

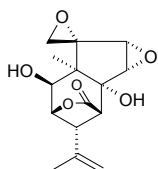
$C_{10}H_{17}NO_3$ (199.25). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660.

**22144 Tussilagone**

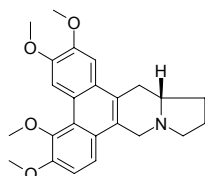
Tussilagin [80489-85-6] $C_{23}H_{34}O_5$ (390.52). White pillar crystals, mp 100~102°C. Pharm: Increases blood pressure (cat, spinal cord iv, 0.2mg/kg, blood pressure is increased by (16.6±3.5)kPa ((125±27)mmHg); cat, vertebral artery ia, 0.02mg/kg, blood pressure is lowered by (1.73±0.4)kPa ((13±3)mmHg), respiratory stimulant); Contracts blood vessels (dog, stronger than dopamine, increases blood pressure of hemorrhagic shock for long time); calcium antagonist ($IC_{50} = 1\mu\text{g/mL}$); platelet aggregation inhibitor (due to PAF). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660, 1092, 1178, 5501.

**22145 Tutin**

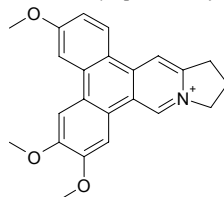
$C_{15}H_{18}O_6$ (294.31). mp 211~213°C. Pharm: CNS activity (stimulates cerebral respiration center, vasomotor center and cardiac inhibitory center). Source: MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*], MA SANG YE *Coriaria sinica* [Syn. *Coriaria nepalensis*], RI BEN MA SANG *Coriaria japonica* (seed), XIA MA SANG *Coriaria angustissima*, *Coriaria* sp. Ref: 4, 6, 658, 4497.

**22146 Tylocrebrine**

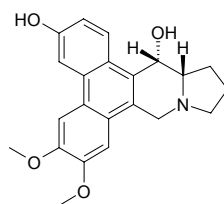
$C_{24}H_{27}NO_4$ (393.49). mp (-) 218~220°C (dec). Pharm: Antiamebic; antineoplastic (*L*-tylocrebrine, adenocarcinoma 755, lymphatic sarcoma, KB, P₃₈₈ and L₁₂₁₀); toxin (hmn); vesicant. Source: MI HUA WA ER TENG *Tylophora crebriflora*, WA ER TENG *Tylophora floribunda*. Ref: 6, 658.

**22147 Tylophoridicine C**

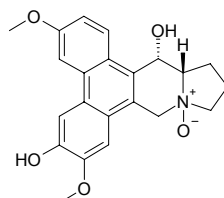
$C_{23}H_{22}NO_3^+$ (360.44). Yellow amorphous powder, mp 295~310°C, $[\alpha]_D^{16} = +0.5^\circ$ ($c = 1.0$, MeOH). Pharm: Cytotoxic (*in vitro*, KB cell, $IC_{50} > 25.00\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$; HCT8 cell, $IC_{50} = (8.09\pm 3.40)\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

**22148 Tylophoridicine D**

$C_{22}H_{23}NO_4$ (365.43). Brown amorphous solid (CHCl₃-MeOH), mp 225~226°C, $[\alpha]_D^{16} = +21.0^\circ$ ($c = 0.74$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cell, $IC_{50} < 0.01\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$; HCT8 cell, $IC_{50} < 0.01\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

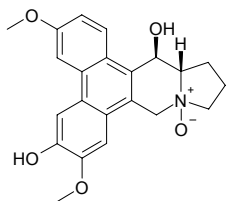
**22149 Tylophoridicine E**

$C_{22}H_{23}NO_5$ (381.43). White powder(CHCl₃), mp 234~237°C, $[\alpha]_D^{16} = +17.1^\circ$ ($c = 0.37$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cell, $IC_{50} > 25.00\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$; HCT8 cell, $IC_{50} = (11.54\pm 4.67)\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

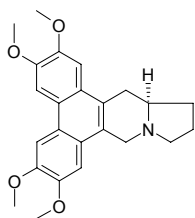


22150 Tylophoridicine F

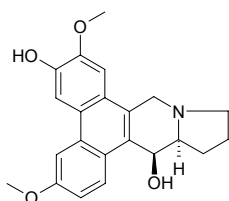
$C_{22}H_{23}NO_5$ (381.43). White solid($CHCl_3$), mp 214~217°C, $[\alpha]_D^{16} = -17.0^\circ$ ($c = 0.40$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cell, $IC_{50} = (18.99 \pm 4.02)\mu\text{mol/L}$, control Adriamycin, $IC_{50} = (0.40 \pm 0.12)\mu\text{mol/L}$; HCT8 cell, $IC_{50} > 25.00\mu\text{mol/L}$, Adriamycin, $IC_{50} = (0.20 \pm 0.11)\mu\text{mol/L}$). **Source:** SAN FEN DAN *Tylophora atrofoliculata* (root). **Ref:** 4974.

**22151 Tylophorine**

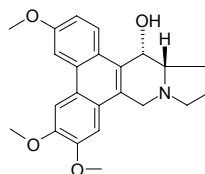
[482-20-2] $C_{24}H_{27}NO_4$ (393.49). mp 292°C (dec). **Pharm:** Antineoplastic; inhibits biosynthesis of protein; anti-inflammatory (rat, swollen foot model caused by carrageenan, tampon granuloma model); CNS depressant; toxin (high toxicity for frog, low toxicity for higher animals); used in treatment of trachitis and dysentery. **Source:** FU YE RONG *Ficus septica*, MI HUA WA ER TENG *Tylophora crebriflora*, WA ER TENG *Tylophora floribunda*, YAO YONG BAI QIAN *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*], YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 4, 658.

**22152 Tylophorinidine**

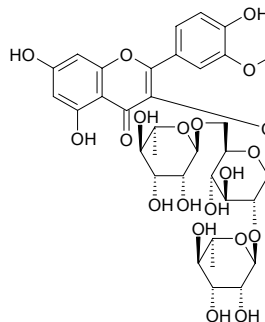
$C_{22}H_{23}NO_4$ (365.43). mp 213~214°C (dec), $[\alpha]_D^{25} = +108^\circ$ ($c = 1.91$, methanol). white lamellar crystals (chloroform–acetone–methanol), mp 219~222°C (dec), $[\alpha]_D^{29} = -139.6^\circ$ ($c = 0.8$, chloroform). **Pharm:** Antineoplastic. **Source:** LUAN YE WA ER TENG *Tylophora ovata*, MIAN MAO WA ER TENG *Tylophora mollissima*, SAN FEN DAN *Tylophora atrofoliculata*, YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 658.

**22153 Tylophorinine**

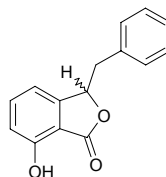
$C_{23}H_{25}NO_4$ (379.46). mp 248~249°C. **Pharm:** Antineoplastic; inhibits cardiac muscles; stimulates striated muscles and smooth muscles; toxin (high toxicity for paramecia, low toxicity for higher animals); used in treatment of trachitis and dysentery. **Source:** LUAN YE WA ER TENG *Tylophora ovata*, MI HUA WA ER TENG *Tylophora crebriflora*, MIAN MAO WA ER TENG *Tylophora mollissima*, SAN FEN DAN *Tylophora atrofoliculata*, WA ER TENG *Tylophora floribunda*, YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 5, 658, 1521.

**22154 Typhaneoside**

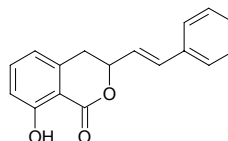
Isorhamnetin-3-*O*-(2^G- α -L-rhamnopyranosyl)- α -L-rhamnopyranosyl-(1→6)- β -D-glucopyranoside $C_{34}H_{42}O_{20}$ (770.70). Yellow amorphous powder, mp 148~150°C, $[\alpha]_D^{20} = -58^\circ$ ($c = 1.3$, methanol), easily soluble in water, methanol; soluble in ethanol; slightly soluble in acetone and acetic ester. **Source:** JIN ZHAN JU *Calendula officinalis*, KUAN YE XIANG PU *Typha latifolia* (dried pollen: content = 0.214%)^[5508], PU HUANG *Typha angustata* (dried pollen: content = 0.293%)^[5508], XIA YE XIANG PU *Typha angustifolia*. **Ref:** 55, 660, 5508.

**22155 Typhaphthalide**

7-Hydroxy-3-benzylphthalide $C_{15}H_{12}O_3$ (240.26). mp 75~77°C, $[\alpha]_D^{25} = -9.2^\circ$ ($c = 0.136$, MeOH). **Source:** HAO WANG JIAO XIANG PU *Typha capensis*. **Ref:** 1939.

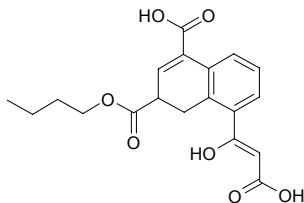
**22156 Typharin**

$C_{17}H_{14}O_3$ (266.30). Yellow solid, $[\alpha]_D^{25} = +3.6^\circ$ ($c = 0.07$, MeOH). **Source:** HAO WANG JIAO XIANG PU *Typha capensis*. **Ref:** 1939.

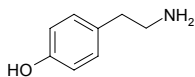


22157 Typhic acid

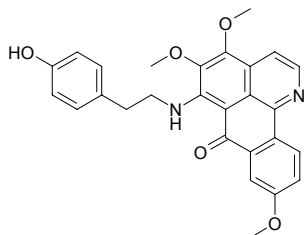
$C_{19}H_{20}O_7$ (360.37). White massive crystals, mp 248–250°C. Source: PU HUANG *Typha angustata*. Ref: 2, 80, 660.

**22158 Tyramine**

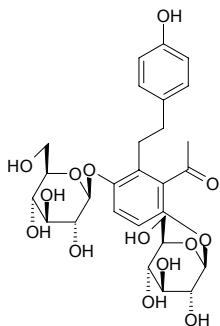
[51-67-2] $C_8H_{11}NO$ (137.18). mp 164.0–164.5°C. Pharm: Antifungal; radioprotector (rat); parasymphomimetic; respiratory center stimulant. Source: AN LU LONG SHE LAN *Lophophora williamsii*, BAI QU CAI *Chelidonium majus*, DUO HUA HEI MAI CAO *Lolium multiflorum*, GE CONG *Allium victorialis*, JI CAI *Capsella bursa-pastoris*, JIANG *Glycine max*, LUAN YE HU JI SHENG *Viscum album*, MAI JIAO *Claviceps purpurea*, MAI YA *Hordeum vulgare*, MAO MAN TUO LUO HUA *Datura innoxia*, MAO MAN TUO LUO YE *Datura innoxia*, SHUI FEI JI *Silybum marianum*, YE HUA HUI MAO DOU *Tephrosia noctiflora*, YE ZHI MA *Lamium barbatum*. Ref: 6, 658, 660.

**22159 Tyraminoporphine**

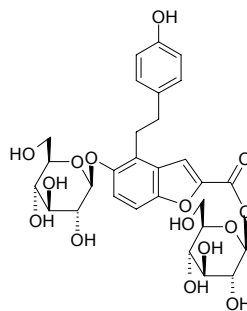
$C_{27}H_{24}N_2O_5$ (456.50). mp 229°C (dec). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 2402.

**22160 Tyrolobibenzyll E**

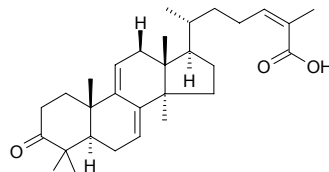
$C_{28}H_{36}O_{14}$ (596.59). Amorphous solid. Source: AI SHENG YA CONG *Scorzonera humilis*. Ref: 2067.

**22161 Tyrolobibenzyll F**

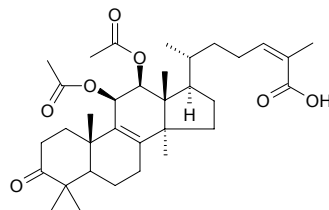
$C_{29}H_{34}O_{15}$ (622.59). Amorphous solid. Source: AI SHENG YA CONG *Scorzonera humilis*. Ref: 2067.

**22162 Tyromycic acid**

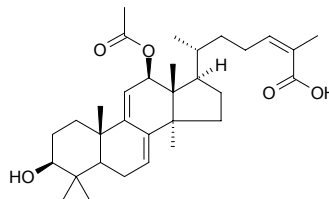
$C_{30}H_{44}O_3$ (452.68). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22163 Tyromycic acid B**

(24Z)-3-Oxo-11R,12S-diacetoxylanosta-8,24-dien-26-oic acid $C_{34}H_{50}O_7$ (570.55). Oil, $[\alpha]_D^{20} = -9.6^\circ$ ($c = 0.1$, $CHCl_3$). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp; yield = 0.083%dw). Ref: 3008.

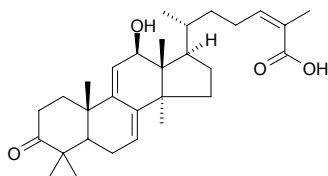
**22164 Tyromycic acid C**

3β-Hydroxy-12β-acetoxylanosta-7,9(11),24(Z)-trien-26-oic acid $C_{32}H_{48}O_5$ (512.74). Oil, $[\alpha]_D^{20} = -53.1^\circ$ ($c = 0.11$, $CHCl_3$). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp; yield = 0.0072%dw). Ref: 3008.

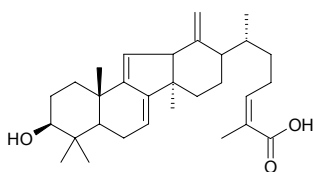


22165 Tyromyctic acid D

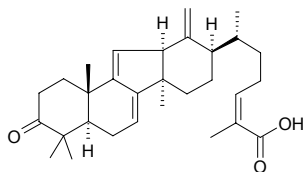
3-Oxo-12 β -hydroxy lanosta-7,9(11),24(Z)-trien-26-oic acid C₃₀H₄₄O₄ (468.68). Oil, [α]_D²⁰ = -52.2° (*c* = 0.1, CHCl₃). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp: yield = 0.036%dw). Ref: 3008.

**22166 Tyromyctic acid E**

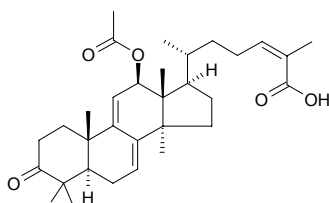
(24Z)-3 β -Hydroxy-14(13 \rightarrow 12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid C₃₀H₄₄O₃ (452.68). Oil, [α]_D²⁰ = -94.3° (*c* = 0.11, CHCl₃). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp: yield = 0.077%dw). Ref: 3008.

**22167 Tyromyctic acid F**

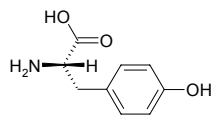
(24Z)-3-Oxo-14(13 \rightarrow 12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid C₃₀H₄₂O₃ (450.67). Oil, [α]_D²⁰ = -103.1° (*c* = 0.1, CHCl₃). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22168 Tyromyctic acid G**

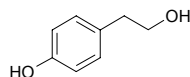
(24Z)-12 β -Acetoxylanosta-7,9(11),24-trien-26-oic acid C₃₂H₄₆O₅ (510.72). Oil, [α]_D²⁰ = -99.1° (*c* = 0.08, CHCl₃). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22169 (S)-Tyrosine**

C₉H₁₁NO₃ (181.19). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.39%~0.87%, mean content = 0.54%)^[5521], occurs in many plants. Ref: 660, 5508.

**22170 Tyrosol**

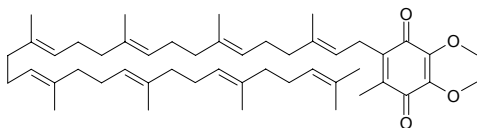
4-Hydroxyphenethyl alcohol [501-94-0] C₈H₁₀O₂ (138.17). mp 93°C. Source: DA CHE QIAN *Plantago major*, DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*], MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.0032%)^[4733], SHENG DI HONG JING TIAN *Rhodiola sacra*, XIA YE HONG JING TIAN *Rhodiola kirilowii*, ZANG HONG HUA *Crocus sativus* (pollen). Ref: 218, 516, 660, 4233, 4733.



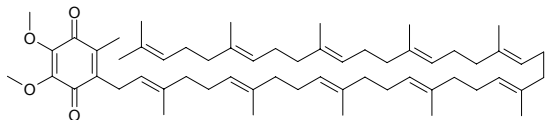
U

22171 Ubiquinone 8

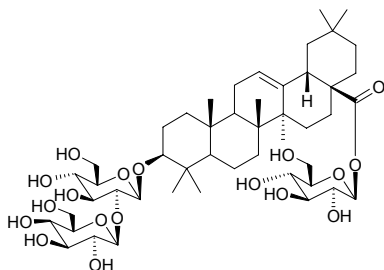
$C_{49}H_{74}O_4$ (727.13). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.

**22172 Ubiquinone 10**

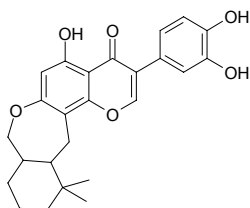
[303-98-0] $C_{59}H_{90}O_4$ (863.37). Pharm: Used to treatment of congestive heart failure, assists in treatment of heart failure, coronary heart disease, hypertension and arrhythmia, involved with electron-transfer in cyto blasts; anti-myocardial infarction; anti-ischemia, myocardial. Source: occurs in many plants. Ref: 658.

**22173 Udosaponin B**

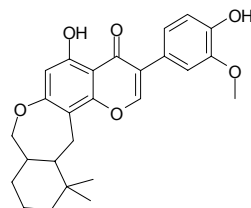
3-*O*-[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucopyranosylolean-12-en-28-oic acid $C_{48}H_{78}O_{18}$ (943.15). Source: TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = yield = 0.0037%dw), WU JIA QIAN HU *Steganotaenia araliacea*. Ref: 3013.

**22174 Ugonin A**

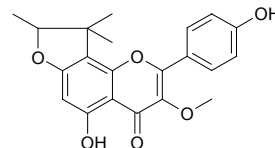
[50982-42-8] $C_{25}H_{26}O_6$ (422.48). mp 225~226°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22175 Ugonin B**

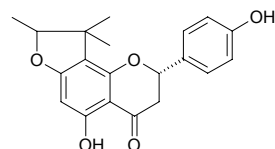
[50982-43-9] $C_{26}H_{28}O_6$ (436.51). mp 252~254°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22176 Ugonin C**

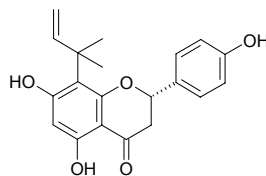
[50868-48-9] $C_{21}H_{20}O_6$ (368.39). mp (-) 236~237°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22177 Ugonin D**

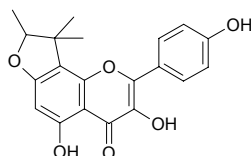
[50868-49-0] $C_{20}H_{20}O_5$ (340.38). mp 183°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22178 Ugonin E**

5,7,4'-Trihydroxy-8-(1,1-dimethylallyl)flavanone $C_{20}H_{20}O_5$ (340.38). Yellow powder, $[\alpha]_D^{25} = -45.4^\circ$ ($c = 0.11$, MeOH). Source: RU DI WU GONG *Helminthostachys zeylanica* (rhizome). Ref: 3484.

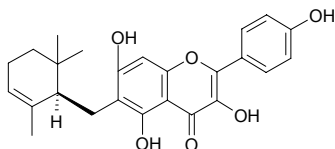
**22179 Ugonin F**

4'',5''-Dihydro-3,5,4'-trihydroxy-4'',4'',5''-trimethylfuran[2'',3'':7,8]flavanone $C_{20}H_{18}O_6$ (354.36). Yellow powder, $[\alpha]_D^{25} = 3.1^\circ$ ($c = 0.32$, MeOH). Source: RU DI WU GONG *Helminthostachys zeylanica* (rhizome). Ref: 3484.

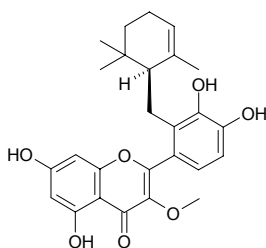


22180 Ugonin G

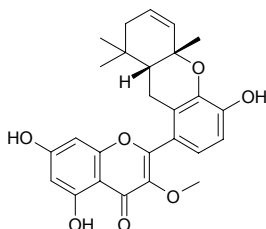
3,5,7,4'-Tetrahydroxy-6-(2,6,6-trimethyl-2-cyclohexenylmethyl)flavone C₂₅H₂₆O₆ (422.48). Yellow powder, $[\alpha]_D^{25} = 98.9^\circ$ ($c = 0.94$, MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC₂₀ = (12.63±0.42)μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22181 Ugonin H**

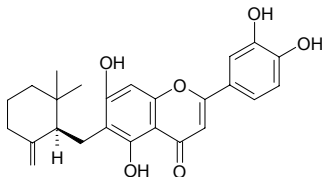
5,7,3',4'-Tetrahydroxy-3-methoxy-2'-(2,6,6-trimethyl-2-cyclohexenylmethyl)flavone C₂₆H₂₈O₇ (452.51). Yellow powder, $[\alpha]_D^{25} = 130.5^\circ$ ($c = 0.95$, MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC₂₀ = (9.84±0.22)μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22182 Ugonin I**

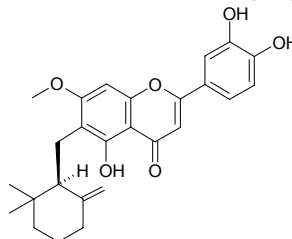
4''a,5'',6'',7'',8''a-Hexahydro-3',4'-dihydroxy-7-methoxy-5'',5'',8''a-trimethyl-4H-chromeno[2'',3'':3',2']flavone C₂₆H₂₆O₇ (450.49). Yellow powder, $[\alpha]_D^{25} = -45^\circ$ ($c = 0.10$, MeOH). **Pharm:** Antioxidant inactive (DPPH free radical scavenger, IC₂₀ > 100μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22183 Ugonin J**

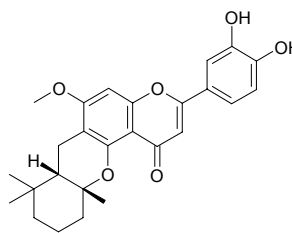
5,7,3',4'-Tetrahydroxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone C₂₅H₂₆O₆ (422.48). Yellow powder, $[\alpha]_D^{25} = 50^\circ$ ($c = 0.30$, MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC₂₀ = (5.29±0.32)μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22184 Ugonin K**

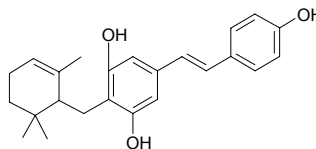
5,3',4'-Trihydroxy-7-methoxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone C₂₆H₂₈O₆ (436.51). Yellow powder, $[\alpha]_D^{25} = -18.7^\circ$ ($c = 0.16$, MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC₂₀ = (7.23±0.22)μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22185 Ugonin L**

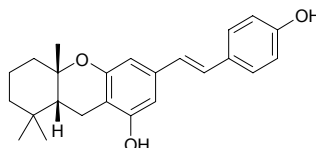
4''a,5'',6'',7'',8''a-Hexahydro-3',4'-dihydroxy-7-methoxy-5'',5'',8''a-trimethyl-4H-chromeno[2'',3'':5,6]flavone C₂₆H₂₈O₆ (436.51). Yellow powder, $[\alpha]_D^{25} = 81.8^\circ$ ($c = 0.22$, MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC₂₀ = (7.93±0.31)μmol/L, control Trolox, IC₂₀ = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22186 Ugonstilbene A**

C₂₄H₂₈O₃ (364.49). Yellow powder, $[\alpha]_D^{25} = +162^\circ$ ($c = 1.18$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, IC₂₀ = (11.31±1.11)μmol/L, control Trolox, IC₂₀ = (8.70±0.95)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

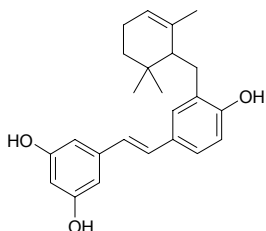
**22187 Ugonstilbene B**

C₂₄H₂₈O₃ (364.49). Yellow powder, $[\alpha]_D^{25} = -25^\circ$ ($c = 0.54$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, IC₂₀ = (38.72±0.47)μmol/L, control Trolox, IC₂₀ = (8.70±0.95)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

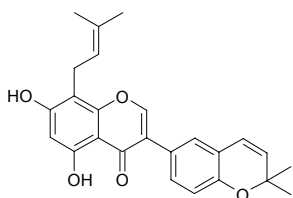


22188 Ugonstilbene C

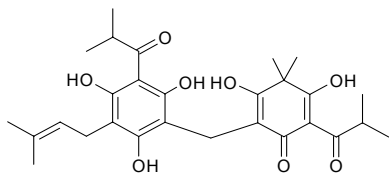
$C_{24}H_{28}O_3$ (364.49). Yellow powder, $[\alpha]_D^{25} = +46^\circ$ ($c = 0.30$, MeOH). **Pharm:** Antioxidant (DPPH scavenger, $IC_{20} = (30.80 \pm 1.19) \mu\text{mol/L}$, control Trolox, $IC_{20} = (8.70 \pm 0.95) \mu\text{mol/L}$). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

**22189 Ulexone A**

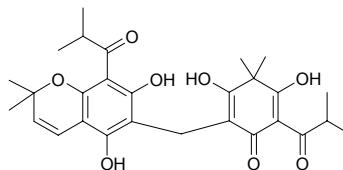
$C_{25}H_{24}O_5$ (404.47). **Source:** PAN YUAN YU TENG *Derris scandens* (stem). **Ref:** 3810.

**22190 Uliginosin A**

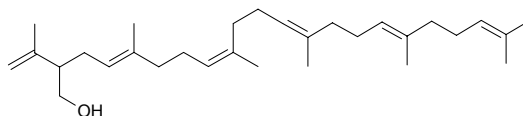
[19809-78-0] $C_{28}H_{36}O_8$ (500.65). Yellowish crystals (acetonitrile–chloroform), mp 160.5–161.5°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *in vitro*); antifungal (*Trichophyton mentagrophytes*); used in treatment of diarrhea. **Source:** SHI SHENG JIN SI TAO *Hypericum uliginosum*. **Ref:** 661.

**22191 Uliginosin B**

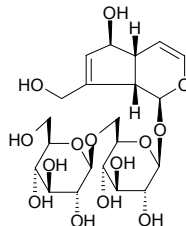
[19809-79-1] $C_{28}H_{34}O_8$ (498.58). Yellowish tiny lamellar crystals (nitromethane), mp 139.5–142.0°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *in vitro*); antifungal (*Trichophyton mentagrophytes*). **Source:** SHI SHENG JIN SI TAO *Hypericum uliginosum*. **Ref:** 661.

**22192 Ulmoprenol**

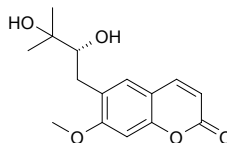
[70475-06-8] $C_{30}H_{50}O$ (426.73). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**22193 Ulmoside**

[67708-72-9] $C_{21}H_{32}O_{14}$ (508.48). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2, 1521.

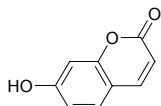
**22194 Ulopterol**

$C_{15}H_{18}O_5$ (278.31). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (10.6±1.5)% (viability > 80%), β -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound $IC_{50} = 126 \text{mol ratio/32 pmol TPA}$, β -Carotene, $IC_{50} = 400 \text{mol ratio/32 pmol TPA}$, Curcumin, $IC_{50} = 341 \text{mol ratio/32 pmol TPA}$). **Source:** SAN ZHONG JU ZA JIAO ZHONG [*Citrus unshiu* x *Citrus sinensis*] x *Citrus iyo*. **Ref:** 5048.

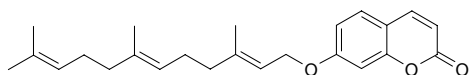


22195 Umbelliferone

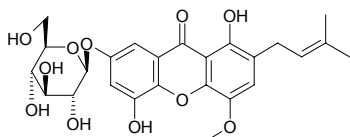
7-Hydroxycoumarin [93-35-6] $C_9H_6O_3$ (162.15). mp 225~228°C. **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA, EBV-EA-positive cells = $(56.3 \pm 2.3)\%$ (viability > 80%), β -Carotene, EBV-EA-positive cells = $(34.3 \pm 1.1)\%$ (viability > 80%), Curcumin, EBV-EA-positive cells = $(22.8 \pm 1.8)\%$ (viability > 80%); $IC_{50} = 571$ mol ratio/32 pmol TPA, β -Carotene, $IC_{50} = 400$ mol ratio/32 pmol TPA, Curcumin $IC_{50} = 341$ mol ratio/32 pmol TPA)^[5048]; cytotoxic (KB, $ED_{50} = 33.0 \mu\text{g/mL}$); cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)^[3069]; NO Production inhibitor (LPS-activated mouse peritoneal macrophages, $100 \mu\text{mol/L}$, InRt = $(44.7 \pm 9.6)\%$, control *L*-NMMA, $100 \mu\text{mol/L}$, InRt = $(79.2 \pm 0.9)\%$)^[4454]; AChE inhibitor (*in vitro*, $IC_{50} = 29 \text{ mmol/L}$)^[3058]; antihypertensive (dog iv, 10mg/kg, blood pressure is lowered by 10% for 7min); antibacterial (*Bacillus coli* and *Bacillus subtilis*, CIC = 65mg/L, the main antibacterial effective component of DI JIN CAO *Euphorbia humifusa*); antifungal (*Trichophyton mentagrophytes*, *Trichophyton purpureatum* and *Candida albicans*); antispasmodic; sedative. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], CHOU CAO *Ruta graveolens*, DI JIN CAO *Euphorbia humifusa*, DIAN QIE *Atropa belladonna*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DUO BIAN XIAO GUAN HUA *Coronilla varia*, FEN CHA DANG GUI *Angelica furcijuga* (flower), FEN TUAN HUA *Hydrangea paniculata*, FU SHOU CAO *Adonis amurensis*, HUI XIANG *Foeniculum vulgare*, LANG DU *Stellera chamaejasme*, LONG YAN DU HUO *Aralia fargesii*, MA TI YE *Caltha palustris*, MU⁽⁴⁾ JU *Aegle marmelos*, NAN HE SHI *Daucus carota*, PI HAN CAO *Melilotus suaveolens*, QING JIAO *Zanthoxylum schinifolium*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RUI XIANG HUA *Daphne odora*, SHENG DI HONG JING TIAN *Rhodiola sacra*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00061%dw), CHAO XIAN DANG GUI *Angelica gigas* (underground part), XUN DAO NIU *Biebersteinia heterostemon*, YOU⁽⁴⁾ *Citrus grandis*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root), *Citrus medica* var. *etrog*, *Citrus sulcata*, *Apium* sp., *Pimpinella* sp., *Heraclium* sp., occurs in many plants (including *Angelica* spp.; *Artemisia* spp.; *Coronilla* spp.; *Ferula* spp.; *Ruta* spp.). **Ref:** 4, 207, 324, 556, 571, 658, 660, 3058, 3069, 4454, 4502, 4722, 5048, 5501.

**22196 Umbelliprenin**

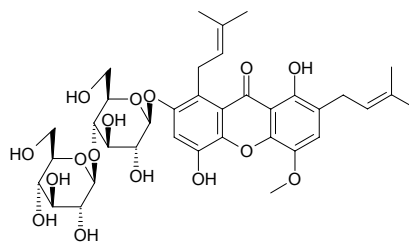
7-Hydroxycoumarin farnesyl ether [23838-17-7] $C_{24}H_{30}O_3$ (366.50). mp 61~63°C. **Source:** SHI LUO ZI *Anethum graveolens*. **Ref:** 6.

**22197 Umbilicaxanthoside A**

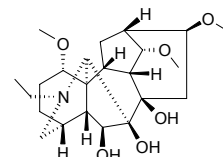
$C_{25}H_{28}O_{11}$ (504.50). Pale yellow needles, mp 114°C, $[\alpha]_D^{23} = -35^\circ$. **Source:** WU LA ER DI YI *Umbilicaria proboscidea*. **Ref:** 2048.

**22198 Umbilicaxanthoside B**

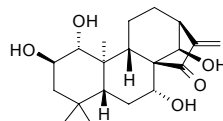
$C_{36}H_{46}O_{16}$ (734.76). Pale yellow needles, mp 133 °C, $[\alpha]_D^{23} = -47^\circ$. **Source:** WU LA ER DI YI *Umbilicaria proboscidea*. **Ref:** 2048.

**22199 Umbrofine**

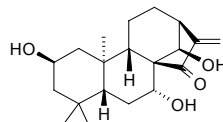
$C_{23}H_{37}NO_6$ (423.55). **Source:** BEI FANG WU TOU *Aconitum septentrionale*, CAO DI WU TOU *Aconitum umbrosum*. **Ref:** 1521.

**22200 Umbrosianin**

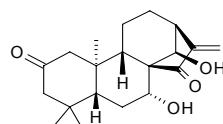
$C_{20}H_{30}O_5$ (350.46). mp 180~182°C, $[\alpha]_D^{22} = -81.5^\circ$ ($c = 0.18$, MeOH). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

**22201 Umbrosin A**

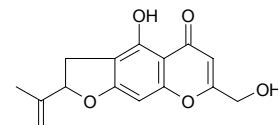
$C_{20}H_{30}O_4$ (334.46). mp 225~228°C, $[\alpha]_D = -126^\circ$ ($c = 1.0$, C_5H_5N). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

**22202 Umbrosin B**

$C_{20}H_{28}O_4$ (332.44). mp 262~265°C, $[\alpha]_D = -150^\circ$ ($c = 1.0$, C_5H_5N). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

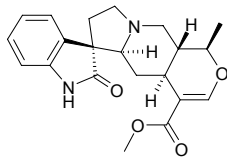
**22203 Umtatin**

$C_{15}H_{14}O_5$ (274.28). **Source:** SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 660.

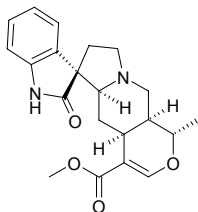


22204 Uncarine B

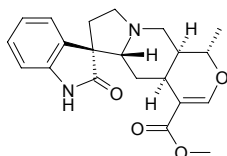
Formosanine C₂₁H₂₄N₂O₄ (368.44). **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], DONG FANG GOU TENG *Uncaria orientalis*, ER CHA GOU TENG *Uncaria gambir*, MAO GOU TENG *Uncaria hirsuta*, PING HUA FA LIANG GOU TENG *Uncaria laevigata*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 5341.

**22205 Uncarine C**

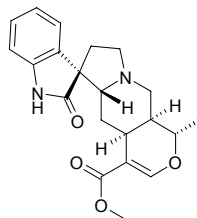
[5629-60-7] C₂₁H₂₄N₂O₄ (368.44). **Pharm:** Cytotoxic (SK-MEL, IC₅₀ > 50 μg/mL, control Doxorubicin, IC₅₀ < 1.1 μg/mL; KB, IC₅₀ > 50 μg/mL, Doxorubicin, IC₅₀ = 1.7 μg/mL; BT549, IC₅₀ > 50 μg/mL, Doxorubicin, IC₅₀ = 2.0 μg/mL; SK-OV-3, IC₅₀ = 37 μg/mL, Doxorubicin, IC₅₀ = 1.9 μg/mL; Vero, IC₅₀ > 50 μg/mL, Doxorubicin, IC₅₀ > 10 μg/mL). **Source:** BI LU GOU TENG *Uncaria tomentosa* (inner bark). **Ref:** 5161.

**22206 Uncarine D**

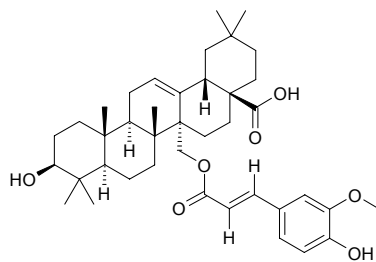
Speciophylline [4697-68-1] C₂₁H₂₄N₂O₄ (368.44). **Pharm:** Cytotoxic (SK-MEL, IC₅₀ = 30 μg/mL, control Doxorubicin, IC₅₀ < 1.1 μg/mL; KB, IC₅₀ = 35 μg/mL, Doxorubicin, IC₅₀ = 1.7 μg/mL; BT549, IC₅₀ = 34 μg/mL, Doxorubicin, IC₅₀ = 2.0 μg/mL; SK-OV-3, IC₅₀ = 30 μg/mL, Doxorubicin, IC₅₀ = 1.9 μg/mL; Vero, IC₅₀ = 39 μg/mL, Doxorubicin, IC₅₀ > 10 μg/mL)^[5161]; cytotoxic (SKMEL, KB, BT549, SK-OV-3 and Vero cell lines, IC₅₀ = 30-40 μg/mL)^[5341]; immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines)^[5341]. **Source:** BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], PING HUA FA LIANG GOU TENG *Uncaria laevigata*, XIA GOU TENG *Uncaria attenuata*, *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria perrottetii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. **Ref:** 5161, 5341.

**22207 Uncarine F**

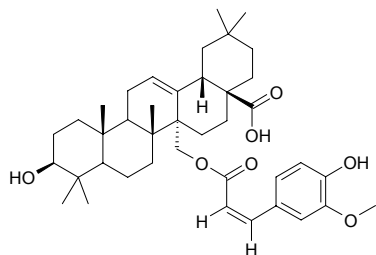
C₂₁H₂₄N₂O₄ (368.44). **Pharm:** Immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines). **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria perrottetii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. **Ref:** 5341.

**22208 Uncarinic acid A**

C₄₀H₅₆O₇ (648.89). **Pharm:** Anti-HIV (H9 lymphocytic cells, inhibits replication, IC₅₀ (concentration that inhibits uninfected H9 cell growth by 50%) = 19.87 μg/mL, EC₅₀ (concentration that inhibits viral replication by 50%) = 1.53 μg/mL, TI(IC₅₀/EC₅₀) = 12.95, control AZT IC₅₀ = 500 μg/mL, EC₅₀ = 0.0007 μg/mL, TI = 740000)^[2529]; cytotoxic (hmn, A549 EC₅₀ = 4.6 μg/mL, MCF7 EC₅₀ = 7.7 μg/mL)^[2529]; cytotoxic (inhibits growth of hmn cancer cell lines A549, HCT15, MCF7 and HT1197)^[5341]; phospholipase PLCγ1 inhibitor (IC₅₀ = 35.66 μmol/L)^[5341]. **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], TAI WAN FU RONG *Hibiscus taiwanensis*. **Ref:** 1521, 2529, 5341.

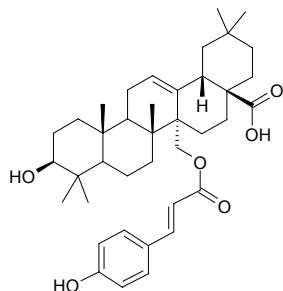
**22209 Uncarinic acid B**

C₄₀H₅₆O₇ (648.89). **Pharm:** Cytotoxic (inhibits growth of hmn cancer cell lines A549, HCT15, MCF7 and HT1197); phospholipase PLCγ1 inhibitor (IC₅₀ = 35.66 μmol/L). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

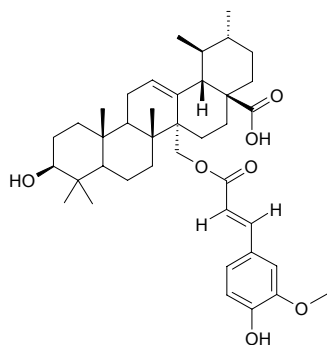


22210 Uncarinic acid C

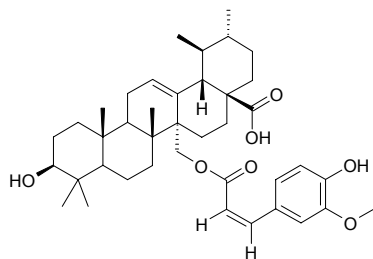
$C_{39}H_{54}O_6$ (618.86). **Pharm:** Cytotoxic (phospholipase PLC γ 1 inhibitor, IC_{50} = 4.6~9.5 μ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines, IC_{50} = 0.5~6.5 μ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22211 Uncarinic acid D**

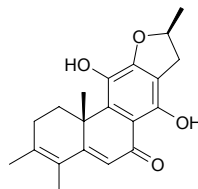
$C_{40}H_{56}O_7$ (648.89). **Pharm:** Cytotoxic (phospholipase PLC γ 1 inhibitor, IC_{50} = 4.6~9.5 μ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines, IC_{50} = 0.5~6.5 μ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22212 Uncarinic acid E**

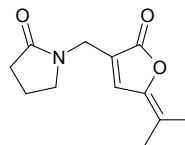
$C_{40}H_{56}O_7$ (648.89). **Pharm:** Phospholipase PLC γ 1 inhibitor (IC_{50} = 4.6~9.5 μ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines, IC_{50} = 0.5~6.5 μ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22213 Uncinatone**

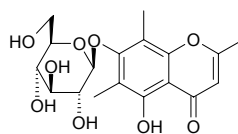
$C_{20}H_{22}O_4$ (326.40). mp 193.2°C, $[\alpha]_D^{20}$ = -111.0° (c = 0.5, $CHCl_3$). **Pharm:** Antiproliferative (*in vitro*, MTT assay, CEM, IC_{50} = 5.5 μ mol/L, control Doxorubicin, IC_{50} = 0.036 μ mol/L, HeLa, IC_{50} = 4.6 μ mol/L, Doxorubicin, IC_{50} = 0.027 μ mol/L, HCT8, IC_{50} = 56.7 μ mol/L, Doxorubicin, IC_{50} = 0.024 μ mol/L, MCF7, IC_{50} = 50.3 μ mol/L, Doxorubicin, IC_{50} = 0.183 μ mol/L, B16, IC_{50} > 76.7 μ mol/L, Doxorubicin, IC_{50} = 0.056 μ mol/L)^[4940]; antifungal (*Cladosporium cucumerinum*). **Source:** *Clerodendrum nucinatum*, *Aegiphila thotzkyana* (root). **Ref:** 658, 4940.

**22214 Uncinine**

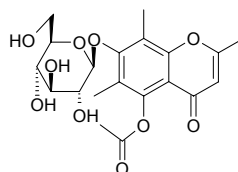
$C_{12}H_{15}NO_3$ (221.26). White amorphous powder. **Pharm:** Cytotoxic (*in vitro*, HepG $_2$, IC_{50} = 6.1 μ g/mL; Hep2,2,15, IC_{50} = 7.4 μ g/mL). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (leaf). **Ref:** 3083.

**22215 Uncinoside A**

5-Hydroxy-2,6,8-trimethylchromone 7-*O*- β -D-glucopyranoside $C_{18}H_{22}O_9$ (382.37). Slight-yellow powder, mp 273~274°C. **Pharm:** Antiviral (respiratory syncytial virus (RSV), IC_{50} = 6.9 μ g/mL, TC_{50} = 82.5 μ g/mL, TI = TC_{50}/IC_{50} = 12.0, control Ribavirin, IC_{50} = 2.6 μ g/mL, TC_{50} = 62.5 μ g/mL, TI = TC_{50}/IC_{50} = 24.0; parainfluenza type 3 virus (Para-3), IC_{50} = 13.8 μ g/mL, TC_{50} = 82.5 μ g/mL, TI = TC_{50}/IC_{50} = 6.0, control Ribavirin, IC_{50} = 5.2 μ g/mL, TC_{50} = 62.5 μ g/mL, TI = TC_{50}/IC_{50} = 12.0). **Source:** CUI YUN CAO *Selaginella uncinata* (whole herb). **Ref:** 4398.

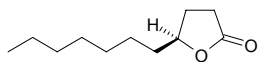
**22216 Uncinoside B**

5-Acetoxy-2,6,8-trimethylchromone 7-*O*- β -D-glucopyranoside $C_{20}H_{24}O_{10}$ (424.41). White powder, mp 165~167°C. **Pharm:** Antiviral (respiratory syncytial virus (RSV), IC_{50} = 1.3 μ g/mL, TC_{50} = 83.3 μ g/mL, TI = TC_{50}/IC_{50} = 64.0, control Ribavirin, IC_{50} = 2.6 μ g/mL, TC_{50} = 62.5 μ g/mL, TI = TC_{50}/IC_{50} = 24.0; parainfluenza type 3 virus (Para-3), IC_{50} = 20.8 μ g/mL, TC_{50} = 83.3 μ g/mL, TI = TC_{50}/IC_{50} = 4.0, control Ribavirin, IC_{50} = 5.2 μ g/mL, TC_{50} = 62.5 μ g/mL, TI = TC_{50}/IC_{50} = 12.0). **Source:** CUI YUN CAO *Selaginella uncinata* (whole herb). **Ref:** 4398.

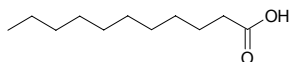


22217 γ -Undecalactone

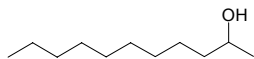
5-Heptyldihydrofuranone [104-67-6] C₁₁H₂₀O₂ (184.28). Pharm: Flavorant. Source: CHAI HU *Bupleurum chinense*, TAO *Prunus persica*. Ref: 2, 658.

**22218 Undecanoic acid**

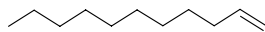
Undecanoic acid [112-37-8] C₁₁H₂₂O₂ (186.30). Source: FU LING *Poria cocos*. Ref: 2.

**22219 Undecan-2-ol**

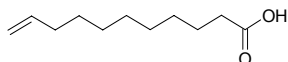
C₁₁H₂₄O (172.31). mp (+) 12°C, bp (-) 231~233°C, (\pm) 228~229°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**22220 Undecene**

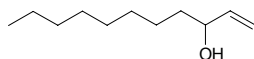
[821-95-4] C₁₁H₂₂ (154.30). bp 192~195°C. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**22221 10-Undecenoic acid**

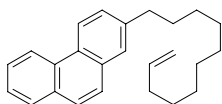
Undecylenic acid. [112-38-9] C₁₁H₂₀O₂ (184.28). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**22222 1-Undecen-3-ol**

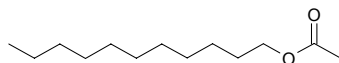
C₁₁H₂₂O (170.30). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660.

**22223 Undecenyl phenanthrene**

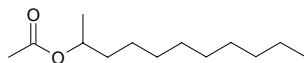
C₂₅H₃₀ (330.52). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*. Ref: 660.

**22224 n-Undecyl acetate**

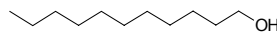
[1731-81-3] C₁₃H₂₆O₂ (214.35). Source: HEI MA YI *Formica fusca*. Ref: 6.

**22225 2-Undecyl acetate**

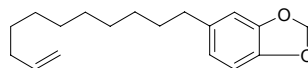
C₁₃H₂₆O₂ (214.35). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**22226 Undecyl alcohol**

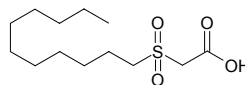
Undecanol [112-42-5] C₁₁H₂₄O (172.31). mp 19~11°C, bp 147°C/25mmHg. Source: HEI MA YI *Formica fusca*. Ref: 6.

**22227 1-Undecylenyl-3,4-methylenedioxybenzene**

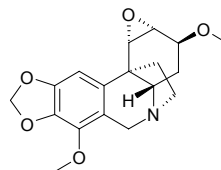
C₁₈H₂₈O₂ (276.42). Source: BI BA *Piper longum*. Ref: 6.

**22228 Undecyl sulfonyl acetic acid**

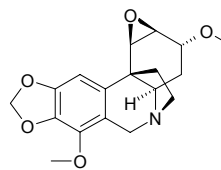
C₁₃H₂₆O₄S (278.41). Source: A WEI *Ferula assafoetida*. Ref: 660.

**22229 (+)-Undulatine**

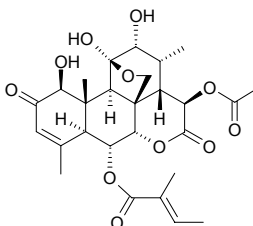
C₁₈H₂₁NO₅ (331.37). Source: *Crinum moorei*. Ref: 4952.

**22230 (-)-Undulatine**

C₁₈H₂₁NO₅ (331.37). Pharm: Antimalarial inactive (*Plasmodium falciparum* strain NF-54, stage IEF). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

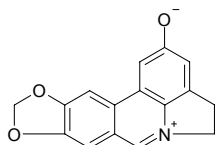
**22231 Undulatone**

[70993-77-0] C₂₇H₃₄O₁₁ (534.57). Pharm: Antineoplastic (leukemia). Source: BO YE KU MU *Hannoa undulata*. Ref: 658.

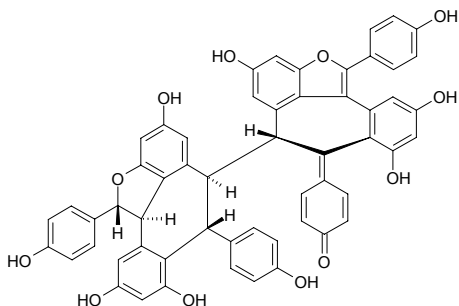


22232 Ungeremine

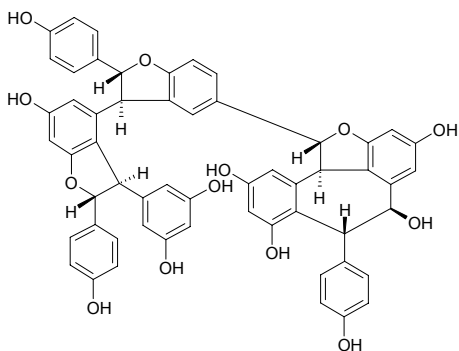
Lecobettaine [2121-12-2] $C_{16}H_{11}NO_3$ (265.27). mp 270~272°C. **Pharm:** Antineoplastic (active in the treatment of cervical, ovarian, gastric and other cancers in clinical trials; overall response in 233 cases of different cancers was reported to be about 35%; no significant myelotoxic, cardiotoxic and hepatotoxic side effects have been observed)^[5369]; antineoplastic (mouse or rats ip, Ehrlich ascites carcinoma, ascites hepatoma, leukemia L₁₂₁₀, leukemia P₃₈₈, Lewis lung carcinoma and Yoshida ascites sarcoma)^[5369]; antineoplastic (nude mouse bearing hmn gastric cancer xenografts, extends survival time and decreases the tumor size)^[5369]; cytotoxic (*in vitro*, S180, KB)^[5369]; cytotoxic (*in vitro*, stomach cancer cells, direct cytotoxic effect to arrest carcinoma cells in the G2/M phase)^[5369]; cytotoxic (calf thymus DNA, intercalates with DNA base pairs, especially the GC-pair, does not bind covalently to DNA)^[5369]; topoisomerase I and II inhibitor (strongly inhibits growth of hmn tumor xenografts *in vitro* and *in vivo*, in the clonogenic assay against 21 hmn tumor xenografts of various tumor types $IC_{50} = 0.002\sim 27.5\mu\text{mol/L}$ with mean $IC_{50} = 0.8\mu\text{mol/L}$)^[5369]; LD₅₀ (rat, ori) = 90mg/kg^[5369]. **Source:** SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], XIAO BO SI SHI SUAN *Ungernia minor* (leaf), YA ZHOU WEN SHU LAN *Crinum asiaticum* (fruit). **Ref:** 4, 1521, 5369.

**22233 Upunaphenol B**

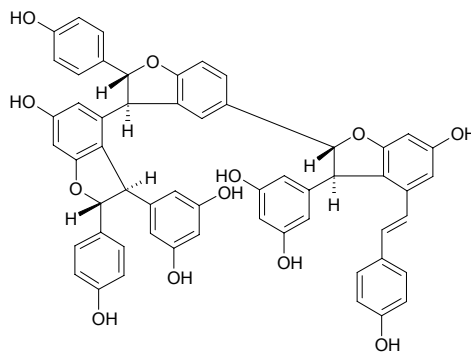
$C_{56}H_{38}O_{12}$ (902.92). Yellow amorphous powder, $[\alpha]_D^{25} = -530^\circ$ ($c = 0.1$, MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22234 Upunaphenol C**

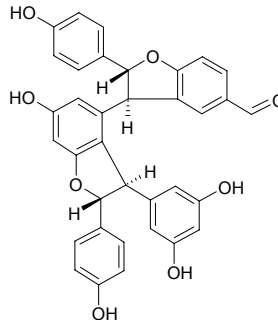
$C_{56}H_{42}O_{13}$ (922.95). Pale yellow amorphous powder, $[\alpha]_D^{25} = -175^\circ$ ($c = 0.1$, MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22235 Upunaphenol D**

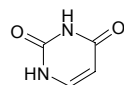
$C_{56}H_{42}O_{12}$ (906.95). Yellow amorphous powder, $[\alpha]_D^{25} = -229^\circ$ ($c = 0.1$, MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22236 Upunaphenol E**

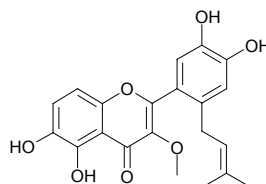
$C_{35}H_{26}O_8$ (574.59). Yellow amorphous powder, $[\alpha]_D^{25} = -147^\circ$ ($c = 0.1$, MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22237 Uracil**

2,4-Pyrimidinediol [66-22-8] $C_4H_4N_2O_2$ (112.09). mp 335°C. **Pharm:** Tyrosinase inhibitor (333.3 $\mu\text{mol/L}$, InRt = 5.3%; control Kojic acid, 333.3 $\mu\text{mol/L}$, InRt = 59.8%)^[4233]; enhances myocardial contractility; strengthens vasoconstriction. **Source:** DANG GUI *Angelica sinensis*, DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.050%^[5512]), FU ZI *Aconitum carmichaeli* (daughter root: mean content = 0.021%^[5508]), REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.054%^[5512]), WU TOU *Aconitum carmichaeli*, ZANG HONG HUA *Crocus sativus* (pollen), ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.0020%dw), ZHANG YE BAN XIA *Pinellia pedatisecta*. **Ref:** 2, 239, 658, 660, 4233, 4653, 5508, 5512.

**22238 Uralene**

5,6,3',4'-Tetrahydroxy-3-methoxy-6'-isoprenyl flavone $C_{21}H_{20}O_7$ (384.39). Yellowish lamellar crystals, mp 216~218°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 251, 660.



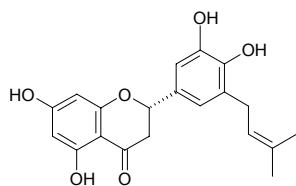
22239 Uralenin

5,7,3',4'-Tetrahydroxy-5'-prenylflavoanone [87746-47-2] C₂₀H₂₀O₆ (356.38).

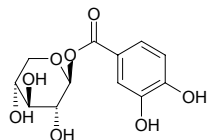
White crystalline powder, mp 212.5~214.0°C; yellow acicular, mp 213~215°C.

Pharm: Antibacterial (gram-positive bacteria, *Staphylococcus aureus* and *Bacillus subtilis* EC = 50mg/L); antioxidant (inhibits formation of superoxide in macrophage). **Source:** GAN CAO *Glycyrrhiza uralensis*, CHAO XIAN

YIN YANG HUO *Epimedium koreanum*. **Ref:** 171, 342, 1747, 1748.

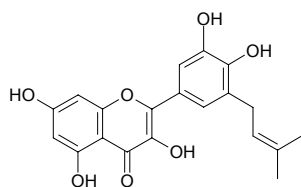
**22240 Uralenneoside**

1-*O*-Protocatechuy- β -*D*-xylopyranose C₁₂H₁₄O₈ (286.24). White granular crystals, mp 185~187°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 231.

**22241 Uralenol**

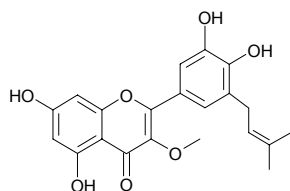
3,5,7,3',4'-Pentahydroxy-5'-isoprenylflavone C₂₀H₁₈O₇ (370.36). Yellow

acicular crystals, mp 170.5~172.5°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 171.

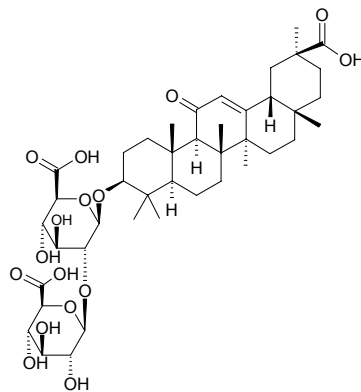
**22242 Uralenol-3-methylether**

5,7,3',4'-Tetrahydroxy-3-methoxy-5'-isoprenyl flavone C₂₁H₂₀O₇ (384.39).

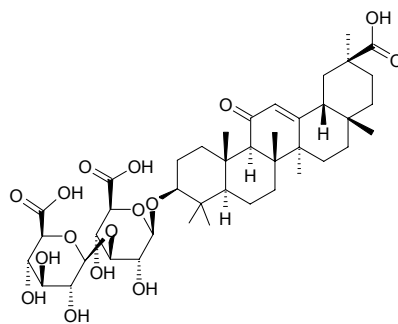
Dark yellow lamellar crystals, mp 104~109°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 251, 660.

**22243 Uralsaponin A**

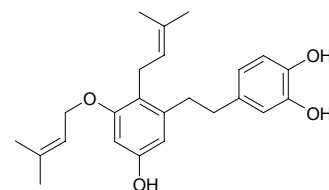
3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-glucuronopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranoside [103000-77-7] C₄₂H₆₂O₁₆ (822.95). White granular crystals, mp 235°C, [α]_D¹⁸ = +42.7° (*c* = 0.45, 90% methanol). **Source:** GAN CAO *Glycyrrhiza uralensis*, HUANG GAN CAO *Glycyrrhiza kansuensis*. **Ref:** 57, 660.

**22244 Uralsaponin B**

3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-glucuronopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranoside [105038-43-5] C₄₂H₆₂O₁₆ (822.95). White granular crystals, mp 244°C, [α]_D¹⁸ = +31.0° (*c* = 0.29, 90% methanol). **Source:** GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content = 0.436%^[5508]), GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.813%^[5508]), HUANG GAN CAO *Glycyrrhiza kansuensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.932%^[5508]). **Ref:** 57, 195, 660, 5508.

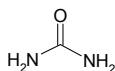
**22245 Uralstilbene**

C₂₄H₃₀O₄ (382.50). Amorphous solid. **Source:** GAN CAO *Glycyrrhiza uralensis* (leaf). **Ref:** 4387.

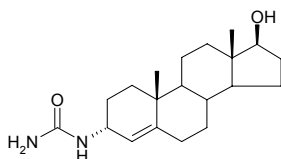


22246 Urea

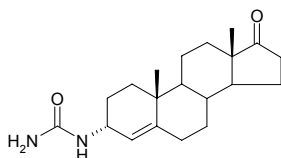
Carbamoylamine [57-13-6] CH₄N₂O (63.06). mp 132°C. Source: DONG GUA ZI *Benincasa hispida*, LI SHU PI *Castanea mollissima*, MA BO *Lasiosphaera fenzlii*, NIU DAN *Bos taurus domesticus*; *Bubalus bubalis*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*, REN ZHONG BAI *Homo sapiens*, WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*, XIA TIAN GAO *Bos taurus domesticus*, YE MING SHA *Vespertilio superans*. Ref: 6.

**22247 3 α -Ureido-androst-4-en-17 β -ol**

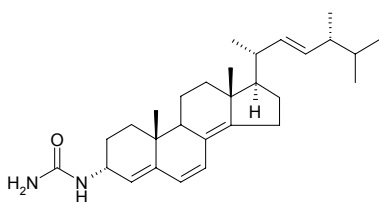
C₂₀H₃₂N₂O₂ (332.49). Amorphous powder, mp 220~223°C °, [α]_D²⁵ = +115° (c = 0.002, MeOH). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 4190.

**22248 3 α -Ureido-androst-4-en-17-one**

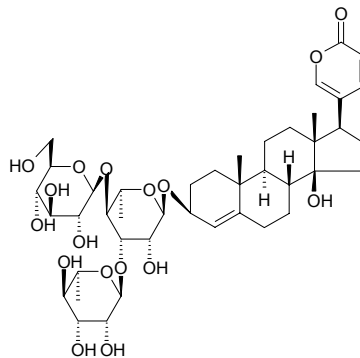
C₂₀H₃₀N₂O₂ (330.47). Amorphous powder, mp 210~212°C (>215°C), [α]_D²⁵ = +250° (c = 0.02, MeOH). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 4190.

**22249 (22E,24R)-3 α -Ureido-ergosta-4,6,8(14),22-tetraene**

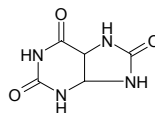
C₂₉H₄₄NO (436.69). Amorphous powder, [α]_D²⁵ = +364.5° (c = 0.3, MeOH). Source: *Chlorophyllum molybdites*. Ref: 4112.

**22250 Uarginin**

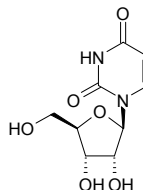
14 β -Hydroxybuta-4,20,22-trienolide 3 β -O-{ α -L-rhamnopyranosyl-[(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside]} C₄₂H₆₂O₁₇ (838.95). Pale yellow crystals, mp 178~182°C (MeOH), [α]_D = -55.15° (c = 0.0068). Source: GAO HAI CONG *Urginea altissima* (bulb), *Drimia robusta* (bulb). Ref: 5193.

**22251 Uric acid**

2,6,8-Trihydroxy-purine [69-93-2] C₅H₄N₄O₃ (170.13). No melting point, > 400°C (dec). Source: MA BO *Lasiosphaera fenzlii*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*, REN ZHONG BAI *Homo sapiens*, XIA TIAN GAO *Bos taurus domesticus*, YE MING SHA *Vespertilio superans*, YUAN CAN ZI *Bombyx mori*. Ref: 6.

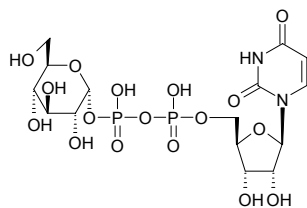
**22252 Uridine**

C₉H₁₂N₂O₆ (244.21). Pharm: Antioxidant inactive (DPPH scavenger, EC₅₀ > 200 μ g/mL, control Ascorbic acid, EC₅₀ = 1.6 μ g/mL = 9.1 μ mol/L)^[4154]. Source: BEI SHA SHEN *Glehnia littoralis* (underground part), CANG ZHU *Atractylodes lancea*, DANG GUI *Angelica sinensis* (root: content = 0.015%)^[5514], DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.111%)^[5512], GUAN HUA ROU CONG RONG *Cistanche tubulosa* (fleshy stem: content = 0.016%)^[5514], HUANG QI *Astragalus membranaceus* (root: content = 0.027%)^[5514], MAI DONG *Ophiopogon japonicus* (tuberoid: content = 0.005%)^[5514], REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.306%)^[5512], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (root: content = 0.028%)^[5514], SHI LUO ZI *Anethum graveolens* (fruit), SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (steamed and shined root: content = 0.017%)^[5514]. Ref: 4154, 4177, 4348, 5512, 5514.

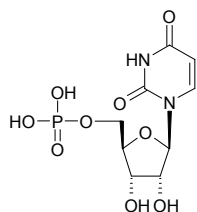


22253 Uridine diphosphate glucose

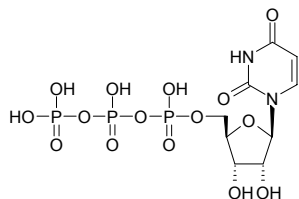
[133-89-1] $C_{15}H_{24}N_2O_{17}P_2$ (566.32). **Pharm:** Involves the metabolism of carbohydrates. **Source:** occurs in many plants (biosynthetic product from the uridyl transferase catalysed reaction of UTP and glucose 1-phosphate). **Ref:** 658.

**22254 Uridine monophosphate**

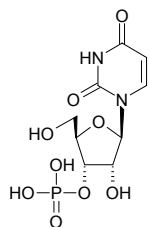
5'-Uridylic acid $C_9H_{13}N_2O_9P$ (324.19). mp 198.5°C. **Source:** MO GU *Agaricus campestris*. **Ref:** 6.

**22255 Uridine-5'-triphosphatemonophosphate**

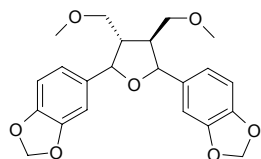
[63-39-8] $C_9H_{15}N_2O_{15}P_3$ (484.15). **Source:** Yeast and other biological sources. **Ref:** 1521.

**22256 Uridylic acid**

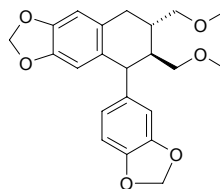
$C_9H_{13}N_2O_9P$ (324.19). mp 195°C (dec). **Source:** GOU QI YE *Lycium chinense*. **Ref:** 6.

**22257 Urinaligran**

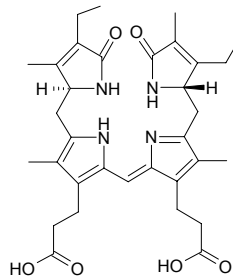
$C_{22}H_{24}O_7$ (400.43). Colorless liquid, $[\alpha]_D^{25} = +19.0^\circ$ ($c = 1.0$). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**22258 Urinatetralin**

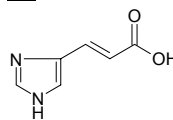
$C_{22}H_{24}O_6$ (384.43). Liquid, $[\alpha]_D^{25} = +7.0^\circ$ ($c = 1.0$). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**22259 Urobilin**

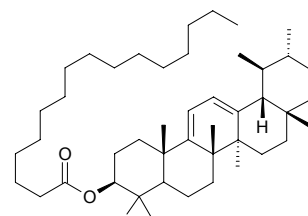
[1856-98-0] $C_{33}H_{42}N_4O_6$ (590.73). mp 177°C. **Source:** REN NIAO *Homo sapiens*. **Ref:** 6.

**22260 Urocanic acid**

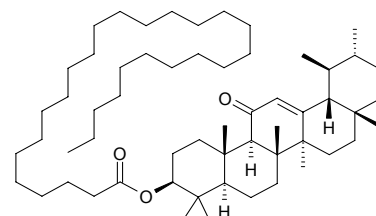
4-Imidazoleacrylic acid [104-98-3] $C_6H_6N_2O_2$ (138.13). mp [α (*trans*)] 218–224°C, [β (*cis*)] 175–176°C. **Source:** GUI GAI *Coprinus atramentarius*. **Ref:** 6.

**22261 9(11),12-Ursadien-3β-ol 3-O-palmitate**

$C_{46}H_{78}O_2$ (663.13). Amorphous, $[\alpha]_D^{25} = +150.2^\circ$ ($c = 0.36$, $CHCl_3$), artificial diene derivative. **Source:** HUANG LONG DAN *Gentiana lutea* (rhizomes and root). **Ref:** 4364.

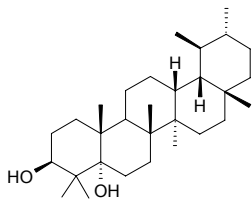
**22262 Ursa-12-ene-11-one-3-ol octocosate**

Ursa-12-ene-11-one-3-ol octocosate $C_{58}H_{102}O_3$ (847.46). White solid mp 80–82°C. **Source:** TONG QIAO SHE GU *Balanophora involucreta*. **Ref:** 793.

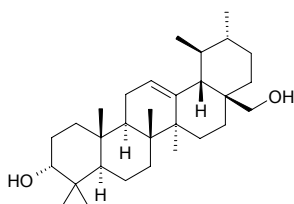


22263 Ursan-3 β ,5 α -diol

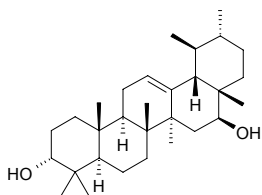
C₃₀H₅₂O₂ (444.75). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**22264 Urs-12-en-3 β ,28-diol**

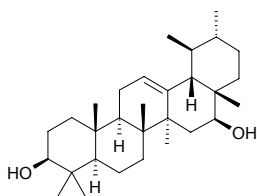
C₃₀H₅₀O₂ (442.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**22265 Urs-12-ene-3 α ,16 β -diol**

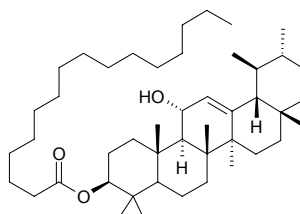
[122475-43-8] C₃₀H₅₀O₂ (442.73). mp 127~128°C, [α]_D²³ = +43° (*c* = 1.0, chloroform). Pharm: Antihepatotoxin (rat, hepatodamage caused by galactosamine). Source: QING GUO *Canarium album*. Ref: 660, 1147.

**22266 Urs-12-ene-3 β ,16 β -diol**

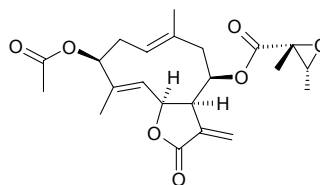
[465-08-7] C₃₀H₅₀O₂ (442.73). mp 225~227°C, [α]_D 28 = +49° (*c* = 1.0, chloroform). Pharm: Antihepatotoxin (rat, hepatodamage caused by galactosamine). Source: QING GUO *Canarium album*. Ref: 660, 1147.

**22267 12-Ursene-3 β , 11 α -diol 3-O-palmitate**

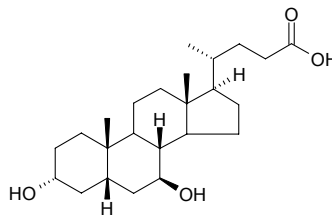
C₄₆H₈₀O₃ (681.15). Amorphous, [α]_D²⁵ = +31.1° (*c* = 0.27, CHCl₃). Source: HUANG LONG DAN *Gentiana lutea* (rhizomes and root). Ref: 4364.

**22268 Ursiniolide A**

[52677-96-0] C₂₂H₂₈O₇ (404.47). Pharm: Antineoplastic; cytotoxic. Source: *Ursinia anthemoides*. Ref: 658.

**22269 Ursodeoxycholic acid**

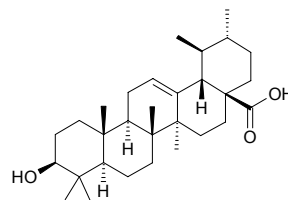
[128-13-2] C₂₄H₄₀O₄ (392.58). Pharm: Antispasmodic (mus, small intestine); choleric; antidote; enhances activity of esterase; hypoglycemic (rht, hyperglycemia model induced by alloxan, 0.4g/(kg-d) orl 5 days, having obvious effect, also lowers urine sugar); antihypercholesterolemic (reduces the level of cholesterol and triglyceride in serum); LD₅₀ (mus, sc) = 1250mg/kg. Source: XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 2, 658.



22270 Ursolic acid

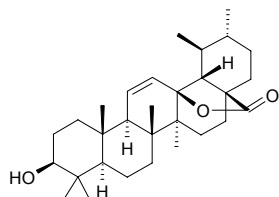
β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72). White solid powder (chloroform–methanol), mp 298–294°C, 265–267°C. **Pharm:** Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = (0.11µg/mL)^[4369]; cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)µmol/L, control Etoposide, IC₅₀ = (0.5±0.2)µmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)µmol/L; KB cell, IC₅₀ = (8.2±2.7)µmol/L, Etoposide, IC₅₀ = (0.9±0.3)µmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)µmol/L; HT29 cell, IC₅₀ = (4.7±1.5)µmol/L, Etoposide, IC₅₀ = (2.4±0.5)µmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)µmol/L)^[5254]; antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged); antibacterial (*Escherichia coli*, IZD = 13–15mm, control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10–12mm, control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13–15mm; control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm)^[5315]; antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50–400µg/mL, gram-negative bacteria *in vitro*, MIC = 200–800µg/mL, microzyme *in vitro*, MIC = 100–700µg/mL); antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5µg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3277)^[4986]; anticonvulsant (induced by corazol); anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective); anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016]; COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130µmol/L)^[4415]; COX-2 inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415]; antipyretic (clearly reduces normal body temperature in rat); reduces serum transaminase (animal, 100mg/kg); antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)^[2579]; mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40–50)% above control at the highest concentrations 0.0001–0.001mol/L, possible use to treatment of chronic airway diseases)^[4084]; platelet aggregation inhibitor (2–5mg/mL collagen-induced, IC₅₀ = (511±4)µmol/L, control ASA, IC₅₀ = (420±3)µmol/L; 1–4µmol/L epinephrine-induced with 0.8–1.0mg/mL collagen, IC₅₀ = (82.6±2.8)µmol/L, ASA, IC₅₀ = (53.0±4.5)µmol/L; 10–40µmol/L Sodium arachidonate-induced with 0.8–1.0mg/mL collagen, IC₅₀ = (669±12)µmol/L, ASA, IC₅₀ = (66.0±2.1)µmol/L; 1–5µmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8–1.0mg/mL collagen, IC₅₀ > 1000µmol/L, ASA, IC₅₀ = (340±12)µmol/L)^[4994]; tissue factor inhibitor inactive^[5387]; antirheumatic^[5341]; anti-diabetic^[5341]; antiulcer^[5341]; hypolipidemic^[5341]; anti-atherosclerotic^[5341]; anti-HIV^[5341]; TGF- β 1 antagonist (inhibits the binding of ¹²⁵I-TGF- β 1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)µmol/L, suggests TGF- β 1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496]; glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles); LD₅₀ (mus, ip) = 680mg/kg. **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn.

Hedyotis diffusa] (whole herb: mean content of 16 origins = 0.211%^[5508]), BI LU GOU TENG *Uncaria tomentosa*, CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%–2.32%, mean content = 0.97%^[5508]), CHI NAN *Syzygium buxifolium*, CHONG YA YAO *Isodon ternifolius*, CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DA CHE QIAN *Plantago major*, DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%^[5508]), DAN SHEN *Salvia miltiorrhiza*, DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw), DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%^[5508]; leaf: mean content = 0.573%^[5508]), DU ZHONG *Eucommia ulmoides*, DUAN TING SHAN MAI DONG *Liriope muscari* (tuber), GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%^[5508]), GUANG JING QIAN CAO *Rubia wallichiana* (stem), HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%^[5508]), HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%), JIAN YE TOU WU GEN *Ligularia sagitta*, LIAN QIAN CAO *Glechoma lungituba*, LIAN QIAO *Forsythia suspensa*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%^[5508]), MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw), MAO PAO TONG *Paulownia tomentosa*, MAO XU CAO *Clerodendranthus spicatus*, MU GUA *Chaenomeles sinensis*, NV ZHEN ZI *Ligustrum lucidum*, PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%^[5508]), PI PA YE *Eriobotrya japonica* (stem and leaf), PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%^[5508]), RI BEN LU TI CAO *Pyrola japonica*, RONG SHU *Ficus microcarpa* (aerial root), SHAN DI XIANG CHA CAI *Isodon oresbia*, SHAN LI HONG *Crataegus pinnatifida* var. *major*, SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%–0.56%^[5501]), SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content scope = 0.24%–0.32%^[5501], mean content = 0.263%^[5508]), SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%^[5508]), SHI SHENG BIAN LEI *Gentianopsis paludosa*, SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%^[5508]), SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%^[5508]), SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%^[5508]), WEI LING CAI *Potentilla chinensis*, WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%^[5508]), YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%), YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins = 0.399%^[5508]), YI LANG QING LAN *Dracocephalum kotschyi*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 0.041%^[5508]), ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%^[5508]), *Cussonia bancoensis*, occurs in many plants. **Ref:** 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369, 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501, 5508.

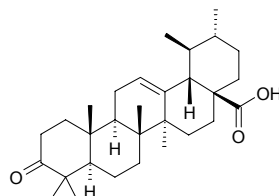


22271 Ursolic acid lactone

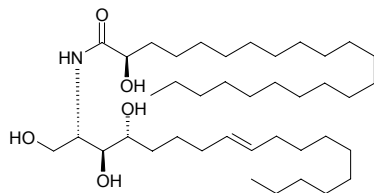
$C_{30}H_{46}O_3$ (454.70). Needles (EtOH), mp 262–264°C. **Pharm:** Nerve growth factor (NGF) enhancer. **Source:** MA BIAN CAO *Verbena officinalis* (white herb). **Ref:** 4902.

**22272 Ursonic acid**

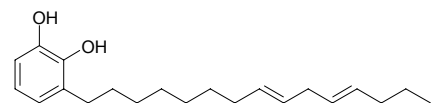
$C_{30}H_{46}O_3$ (454.70). Colorless solid, mp 271–275°C, $[\alpha]_D^{25} = +56.7^\circ$ ($c = 0.9$, $CHCl_3$). **Pharm:** Inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 μ mol/L, InRt = (20.2 \pm 1.3)%), control Curcumin, 100 μ mol/L, InRt = (62.6 \pm 1.0)%, $p < 0.01$, did not affect the enzyme activity of β -hexosaminidase^[4163]; cytotoxic (*in vitro*, HONE-1 cell, $IC_{50} = (5.2 \pm 0.7) \mu$ mol/L, control Etoposide, $IC_{50} = (0.5 \pm 0.2) \mu$ mol/L, *cis*-Platin, $IC_{50} = (3.2 \pm 0.5) \mu$ mol/L; KB cell, $IC_{50} = (4.0 \pm 2.1) \mu$ mol/L, Etoposide, $IC_{50} = (0.9 \pm 0.3) \mu$ mol/L, *cis*-Platin, $IC_{50} = (4.4 \pm 0.9) \mu$ mol/L; HT29 cell, $IC_{50} = (6.3 \pm 1.8) \mu$ mol/L, Etoposide, $IC_{50} = (2.4 \pm 0.5) \mu$ mol/L, *cis*-Platin, $IC_{50} = (5.7 \pm 1.1) \mu$ mol/L)^[5254]. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), RONG SHU *Ficus microcarpa* (aerial root), YANG MEI SHU PI *Myrica rubra* (bark; yield = 0.0067%). **Ref:** 4106, 4163, 5254.

**22273 Urtica ceramide**

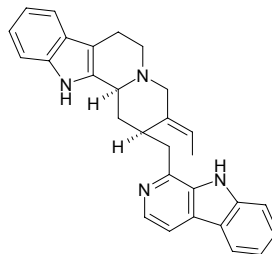
$C_{40}H_{79}NO_5$ (654.08). **Source:** LIAO DONG CONG MU YE *Aralia elata*. **Ref:** 4471.

**22274 Urushiol III**

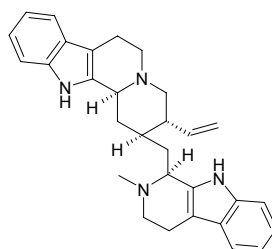
$C_{21}H_{32}O_2$ (316.49). **Pharm:** Dermatitis (causes contact dermatitis); inhibits metabolism of arachidonic acid. **Source:** DU QI TENG *Toxicodendron radicans*. **Ref:** 658.

**22275 Usambarensine**

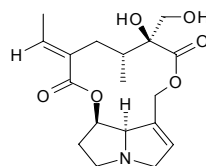
[36150-14-8] $C_{29}H_{28}N_4$ (432.57). **Pharm:** Muscarinic inhibitor (rat intestine, *in vitro*). **Source:** DONG FEI MA QIAN *Strychnos usambarensis*. **Ref:** 658.

**22276 Usambarine**

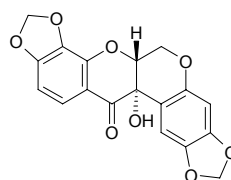
[35226-29-0] $C_{30}H_{34}N_4$ (450.63). **Pharm:** Toxin. **Source:** DONG FEI MA QIAN *Strychnos usambarensis*. **Ref:** 658.

**22277 Usaramine**

[15503-87-4] $C_{18}H_{25}NO_6$ (351.40). mp (*trans*) 182.5–183.5°C. **Pharm:** Antihypertensive; similar action with atropine; toxic (hepatic and pulmonary toxicity). **Source:** DUAN YE ZHU SHI DOU *Crotalaria brevifolia*, GUANG E ZHU SHI DOU *Crotalaria usaramoensis*, GUANG YE ZHU SHI DOU *Crotalaria incana*, XI YE ZHU SHI DOU *Crotalaria intermedia*, XIANG LING CAO *Crotalaria ferruginea*, ZHU SHI DOU *Crotalaria mucronata*. **Ref:** 6, 658.

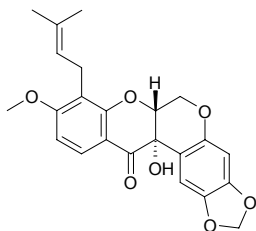
**22278 Usararotenoid A**

$C_{18}H_{12}O_8$ (356.29). **Pharm:** Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, $IC_{50} = 66.6 \mu$ mol/L, control Chloroquine, $IC_{50} = 0.094 \mu$ mol/L, control Quinine, $IC_{50} = 0.209 \mu$ mol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, $IC_{50} = 60.7 \mu$ mol/L, control Chloroquine, $IC_{50} = 0.009 \mu$ mol/L, control Quinine, $IC_{50} = 0.044 \mu$ mol/L). **Source:** *Milletia usaramensis* ssp. *usaramensis*. **Ref:** 3454.

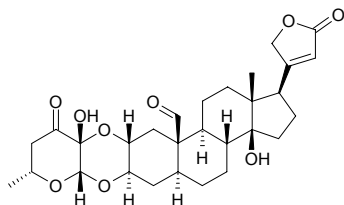


22279 Usararotenoid C

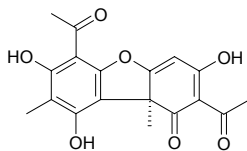
(6a*R*,12a*S*)-2,3-Methylenedioxy-9-methoxy-8-(3,3-dimethylallyl)-12ahydroxy rotenoid C₂₃H₂₂O₇ (410.43). White crystals (CH₂Cl₂), mp 162–164°C, [α]_D²⁰ = +342° (c = 0.6, MeOH). **Pharm:** Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, IC₅₀ = 25.8 μmol/L, control Chloroquine, IC₅₀ = 0.094 μmol/L, control Quinine, IC₅₀ = 0.209 μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, IC₅₀ = 70.1 μmol/L, control Chloroquine, IC₅₀ = 0.009 μmol/L, control Quinine, IC₅₀ = 0.044 μmol/L). **Source:** *Millettia usaramensis* ssp. *usaramensis*. **Ref:** 3454.

**22280 Uscharidin**

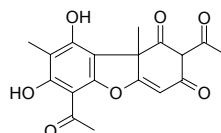
[20304-48-7] C₂₉H₃₈O₉ (530.62). **Pharm:** Toxin (vertebrate); LD₅₀ (cat, iv) = 1.4 mg/kg, (male Swiss Webster mus, ip) = 11.8 mg/kg. **Source:** CHANG NIU JIAO GUA *Calotropis procera*. **Ref:** 658.

**22281 (–)-Usnic acid**

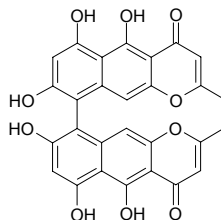
C₁₈H₁₆O₇ (344.32). Yellow powder, [α]_D²⁰ = –486° (c = 0.4, CHCl₃). **Pharm:** Cytotoxic (L1210, IC₅₀ = (6.0±0.5) μg/mL, control Etoposide, IC₅₀ = (0.3±0.2) μg/mL; 3LL, IC₅₀ = (12.1±3.7) μg/mL, Etoposide, IC₅₀ = (2.6±0.8) μg/mL; DU145, IC₅₀ = (15.8±2.4) μg/mL, Etoposide, IC₅₀ = (0.9±0.2) μg/mL; MCF7, IC₅₀ = (17.8±2.5) μg/mL, Etoposide, IC₅₀ = (12.2±0.5) μg/mL; K562, IC₅₀ = (8.2±1.3) μg/mL, Etoposide, IC₅₀ = (2.1±1.3) μg/mL; U251, IC₅₀ = (6.8±1.6) μg/mL, Etoposide, IC₅₀ = (0.28±0.06) μg/mL). **Source:** ZONG JUAN SHI RUI *Cladonia convoluta*. **Ref:** 5027.

**22282 Usnic acid**

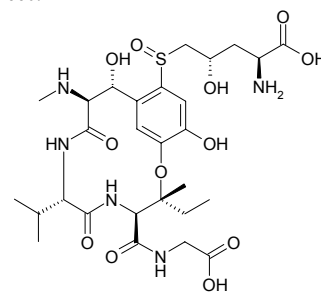
Usnic acid [125-46-2] C₁₈H₁₆O₇ (344.32). mp 202–204°C. **Pharm:** Antibacterial (*Diplococcus pneumoniae*, *Bacillus diphtheriae*, *Mycobacterium tuberculosis* and hemolytic streptococcus *in vitro*, EC = 1–5 μg/mL, CIC = 50 μg/mL, hmn *Mycobacterium tuberculosis in vitro*, CIC = 20–50 μg/mL, *Bacillus pertussis*, *Bacillus subtilis*, *Bacillus coli* and *Bacillus proteus*); antineoplastic (rat, ascites carcinoma AH130 and AH1974); novel α-glycero-phosphoric acid tetrazole reductase inhibitor (mitochondria); anti-inflammatory; antiprotozoal and *Trichomonas vaginalis*; antispasmodic (gpg aorta, *in vitro*, 0.6 mmol/L, action of antihistamine); used in treatment of suppurated wound, burn, and skin infection; LD₅₀ (mus, iv) = 25 mg/kg, (mus, sc, *d*-usnic acid) = 700 mg/kg, (mus, sc, usnic acid sodium) = 35 mg/kg, (rbt, iv, *D*-usnic acid) = 30 mg/kg, (rbt, orl, usnic acid sodium) = 100–150 mg/kg, (dog iv) = 40 mg/kg. **Source:** JIN SHUA BA *Cladonia fallax*, SONG LUO *Usnea longissima*, HUAN JIE SONG LUO *Usnea diffracta*, TAI BAI HUA *Cladonia stellaris* [Syn. *Cladonia alpestris*], *Cladonia* sp. **Ref:** 4, 658, 660.

**22283 Ustilaginoidin A**

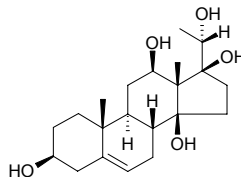
C₂₈H₁₈O₁₀ (514.45). mp > 300°C. **Source:** JING GU NU *Ustilagoidea vires*. **Ref:** 6.

**22284 Ustiloxin**

C₂₈H₄₃N₅O₁₂S (673.75). **Source:** JING GU NU *Ustilagoidea vires*. **Ref:** 660.

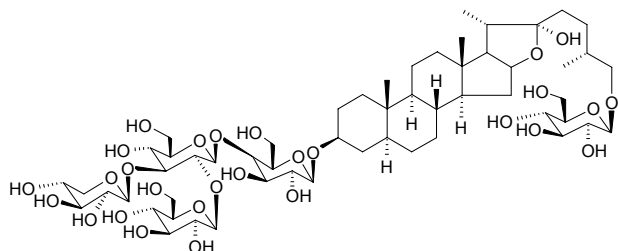
**22285 Utendin**

[28417-32-5] C₂₁H₃₄O₅ (366.50). **Source:** LUO MO *Metaplexis japonica*. **Ref:** 6, 1521.

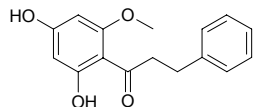


22286 Uttroside B

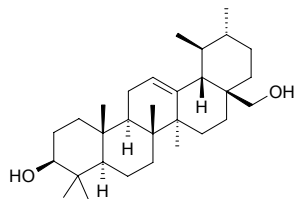
26-*O*- β -D-Glucopyranosyl-(25*R*)-5 α -furost-3 β ,22 α ,26-triol 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside C₅₆H₉₄O₂₈ (1215.36). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC₅₀ = 18.8 μ g/mL; control *cis*-Platin, IC₅₀ = 0.75 μ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0043%fw). **Ref:** 3002.

**22287 Uvangoletin**

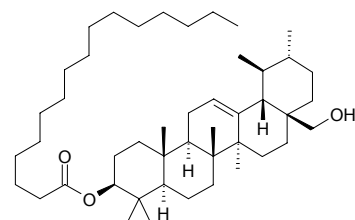
[76444-56-9] C₁₆H₁₆O₄ (272.30). Needles (EtOAc–petroleum ether), mp 189–190°C, colorless crystals, mp 185–187°C (CHCl₃). **Pharm:** Cytotoxic inactive (hmn promyelocytic leukemia HL-60 cells, IC₅₀ > 50 μ mol/L)^[4261]. **Source:** GUAN ZI YU PAN *Uvaria angolensis*, JIAN ZI YU PAN *Uvaria acuminata* (root), YANG PU TAO YE *Syzygium samarangense*. **Ref:** 1521, 4100, 4261.

**22288 Uvaol**

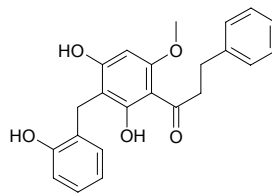
[545-46-0] C₃₀H₅₀O₂ (442.73). mp 233°C. **Source:** DA YE DONG QING *Ilex latifolia*. **Ref:** 6.

**22289 Uvaol 3-*O*-palmitate**

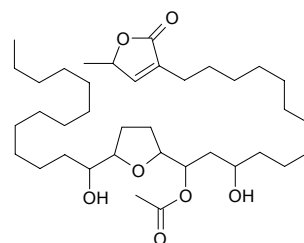
C₄₆H₈₀O₃ (681.15). **Source:** HUANG LONG DAN *Gentiana lutea* (rhizome and root). **Ref:** 4307.

**22290 Uvaretin**

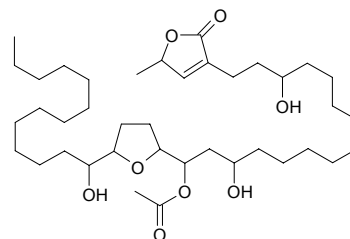
[58449-06-2] C₂₃H₂₂O₅ (378.43). Colorless crystals, mp 167–169°C (CHCl₃). **Pharm:** Cytotoxic (hmn promyelocytic leukemia HL-60 cells, IC₅₀ = 9.3 μ mol/L)^[4261]; antimicrobial. **Source:** GUAN ZI YU PAN *Uvaria angolensis*, JIAN ZI YU PAN *Uvaria acuminata* (root). **Ref:** 658, 4261.

**22291 Uvaribonianin**

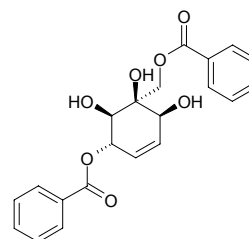
C₃₇H₆₆O₇ (622.93). Colorless gelatinoid, [α]_D¹⁵ = +13° (*c* = 0.01, chloroform). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 355.

**22292 Uvaribonin**

C₃₀H₇₀O₈ (666.99). White waxy solid, mp 50–52°C, [α]_D¹⁵ = +13° (*c* = 0.02, chloroform). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 355.

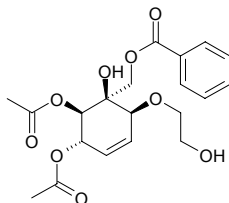
**22293 Uvaribonol D**

C₂₁H₂₀O₇ (384.39). White solid, mp 65–67°C, [α]_D²⁰ = +40.1° (*c* = 0.02, methanol). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 406.

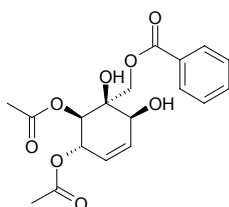


22294 Uvaribonol E

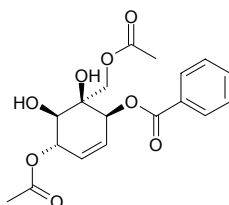
$C_{20}H_{24}O_9$ (408.41). White solid, mp 125~127°C, $[\alpha]_D^{24} = -33.4^\circ$ ($c = 0.04$, methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22295 Uvaribonol F**

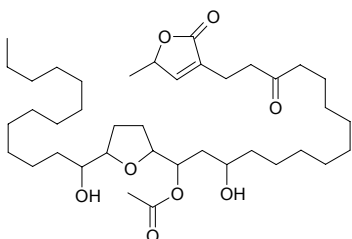
$C_{18}H_{20}O_8$ (364.36). White acicular crystals, mp 148~149°C, $[\alpha]_D^{24} = +40.0^\circ$ ($c = 0.02$, methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22296 Uvaribonol G**

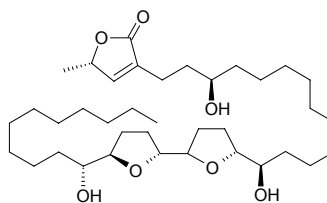
$C_{18}H_{20}O_8$ (364.32). White prismatic crystals, mp 98~100°C, $[\alpha]_D^{24} = -120.6^\circ$ ($c = 0.07$, methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22297 Uvaribonone**

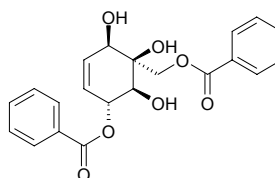
$C_{39}H_{68}O_8$ (664.97). White waxy solid, mp 42~44°C, $[\alpha]_D^{15} = +15^\circ$ ($c = 0.06$, chloroform). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 355.

**22298 Uvarigrandin A**

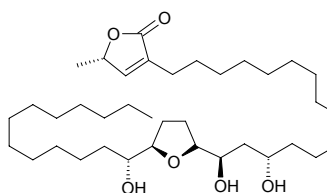
$C_{37}H_{66}O_7$ (622.93). White waxy solid. Source: DA HUA ZI YU PAN *Uvaria grandiflora*. Ref: 378.

**22299 Uvarigranol G**

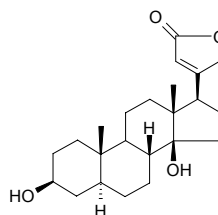
$C_{21}H_{20}O_7$ (384.39). Pharm: Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell, $IC_{50} = 28\mu\text{g/mL}$, SK-MES-1 bronchogenic carcinoma cell, $IC_{50} = 26\mu\text{g/mL}$, NCI-H446 bronchogenic carcinoma cell, $IC_{50} = 30\mu\text{g/mL}$)^[4481]. Source: DA HUA ZI YU PAN *Uvaria grandiflora*, LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). Ref: 1521, 4481.

**22300 Uvarigrin**

$C_{37}H_{68}O_6$ (608.95). Colorless lamellar crystals (acetone), mp 85~86°C, $[\alpha]_D^{21} = +30.5^\circ$ ($c = 0.02$, methanol). Source: DA HUA ZI YU PAN *Uvaria grandiflora*. Ref: 378.

**22301 Uzarigenin**

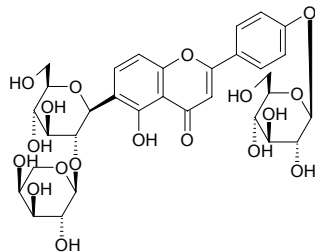
[466-09-1] $C_{23}H_{34}O_4$ (374.53). mp 246°C. Pharm: Cardiotonic; cytotoxic (KB, $EC = 1.0\text{--}3.5\mu\text{g/mL}$); diuretic. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*, BIAN BAI MA LI JIN *Asclepias albicans*. Ref: 5, 6, 658.



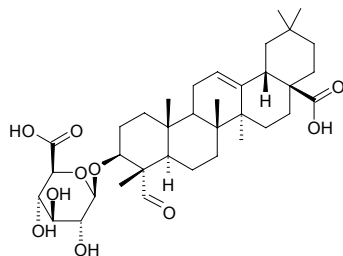
V

22302 Vaccarin

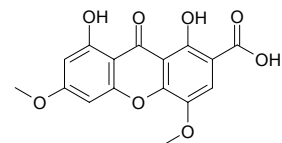
$C_{32}H_{38}O_{18}$ (710.65). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22303 Vaccaroside**

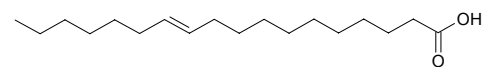
Gypsogenin-3- β -D-glucuronoside $C_{36}H_{54}O_{10}$ (646.83). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22304 Vaccaxanthone**

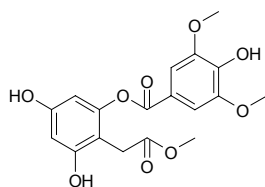
$C_{16}H_{12}O_8$ (332.27). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22305 Vaccenic acid**

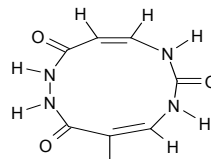
[693-72-1] $C_{18}H_{34}O_2$ (282.47). Pharm: Growth-Stimulating factor (rat). Source: XU LI YA MA LI JIN *Asclepias syriaca*. Ref: 658.

**22306 Vaccihehin A**

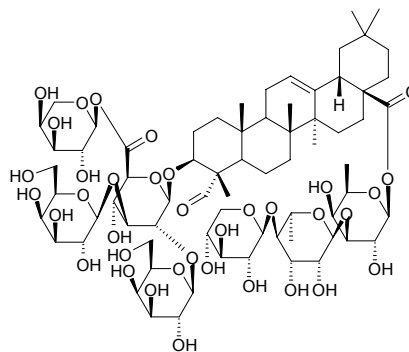
$C_{18}H_{18}O_9$ (378.34). White powder. Pharm: Antioxidant (ferric thiocyanate method, moderate activity); DPPH scavenger. Source: *Vaccinium ashei* (fruit). Ref: 4240.

**22307 Vachellin**

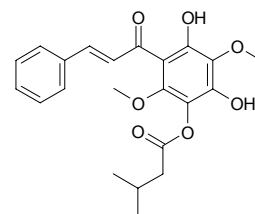
$C_8H_{10}N_4O_3$ (210.19). White powder, mp 228~230°C. Source: WA SHI MA WEI ZAO *Sargassum vachellianum*. Ref: 837.

**22308 Vacsegoside B**

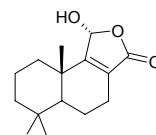
$C_{70}H_{110}O_{36}$ (1527.64). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22309 Valalofone**

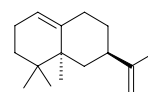
$C_{22}H_{24}O_7$ (400.43). Source: YU LIAO *Polygonum lapathifolium*. Ref: 660.

**22310 Valdiviolide**

$C_{15}H_{22}O_3$ (250.34). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

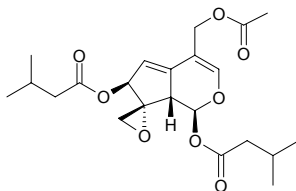
**22311 Valencene**

[4630-07-3] $C_{16}H_{26}$ (218.39). bp 123°C/11mmHg. Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 2, 660, 3932.

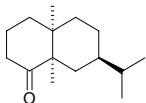


22312 Valepotriate

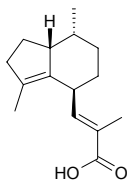
Valtrate; Valtratum [18296-44-1] $C_{22}H_{30}O_8$ (422.48). **Pharm:** Sedative. **Source:** CHANG XU XIE CAO *Valeriana hardwickii* (root and rhizome: content = 2.3%)^[5508], HEI SHUI XIE CAO *Valeriana amurensis* (root and rhizome: content = 3.1%)^[5508], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia* (root and rhizome: content = 2.7%)^[5508], MAO JIE XIE CAO *Valeriana alternifolia* var. *stolonifera* (root and rhizome: content = 2.9%)^[5508], XIE CAO *Valeriana officinalis* (root and rhizome: content = 1.1%)^[5508], ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (rhizome and root: yield = 0.000040%dw), *Valeriana* spp., *Centranthus* spp. **Ref:** 6, 658, 660, 4672, 5508.

**22313 Valeranone**

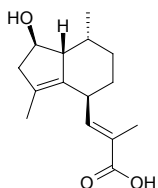
Jatamansone [5090-54-0] $C_{15}H_{26}O$ (222.37). bp (-) 155–156°C/11mmHg. **Source:** GAN SONG *Nardostachys chinensis*, XIE CAO *Valeriana officinalis*, KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. **Ref:** 6, 660.

**22314 Valerenic acid**

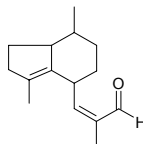
[3569-10-6] $C_{15}H_{22}O_2$ (234.34). mp 140–142°C. **Pharm:** Antispasmodic; CNS depressant. **Source:** CHANG XU XIE CAO *Valeriana hardwickii* (root and rhizome: content = 0.00007%)^[5508], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia* (root and rhizome: content = 0.00053%)^[5508], XIE CAO *Valeriana officinalis* (root and rhizome: content = 0.08%)^[5508]. **Ref:** 6, 658, 660, 5508.

**22315 Valerenolic acid**

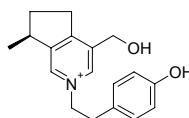
[1619-16-5] $C_{15}H_{22}O_3$ (250.34). mp 171–173°C. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6, 660, 1521.

**22316 Valerenone**

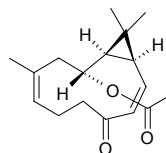
$C_{15}H_{22}O$ (218.34). bp 87–89°C/0.05mmHg. **Source:** XIE CAO *Valeriana officinalis* (root and rhizome: content = 0.01%)^[5508]. **Ref:** 6, 5508.

**22317 Valerianae alkaloid B**

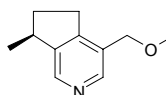
$C_{18}H_{22}NO_2$ (284.38). mp 220–227°C (dec). **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6.

**22318 Valeriana-sesquiterpene CPB2006542**

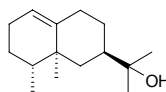
$C_{17}H_{24}O_3$ (276.38). White powder. **Pharm:** Neurite outgrowth enhancer (PC 12D cells, NGF-induced). **Source:** XIE CAO *Valeriana officinalis* (rhizome and root: yield = 0.0002%). **Ref:** 915.

**22319 Valerianine**

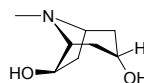
[30634-66-3] $C_{11}H_{15}NO$ (177.25). mp 134°C. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6.

**22320 Valerianol**

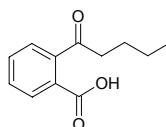
[20489-45-6] $C_{15}H_{26}O$ (222.37). bp 120°C/0.01mmHg. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6, 1521.

**22321 Valerine**

$C_8H_{15}NO_2$ (157.21). mp 209–210°C. **Pharm:** Antibacterial (gram-positive bacteria). **Source:** XIE CAO *Valeriana officinalis*, BI LU GU KE *Erythroxylum novogranatense*. **Ref:** 6, 658.

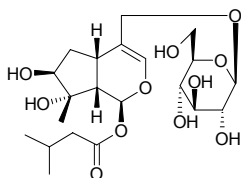
**22322 n-Valerophenone-O-carboxylic acid**

[550-37-8] $C_{12}H_{14}O_3$ (206.24). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

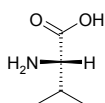


22323 Valerosidatum

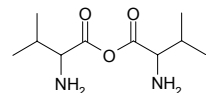
[29505-31-5] $C_{21}H_{34}O_{11}$ (462.50). mp 78~80°C. Source: XIE CAO *Valeriana officinalis*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 6.

**22324 Valine**

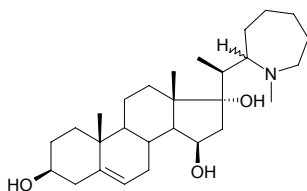
$C_5H_{11}NO_2$ (117.15). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.43%~1.11%, mean content = 0.84%), widely distributed in nature (as one of the principal protein amino acids). Ref: 660, 5521.

**22325 L-Valine-L-valine anhydride**

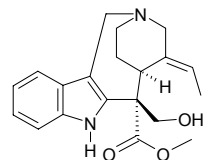
$C_{10}H_{20}N_2O_3$ (216.28). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**22326 Valivine**

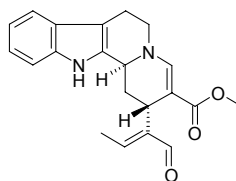
$C_{28}H_{47}NO_3$ (445.69). Source: XIN JIANG BEI MU *Fritillaria walujewii*. Ref: 660.

**22327 19,20-(E)-Vallesamine**

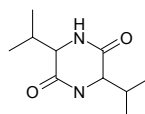
$C_{20}H_{24}N_2O_3$ (340.43). Source: XIANG PI MU *Alstonia scholaris* (leaf). Ref: 5283.

**22328 Vallesiachotamine**

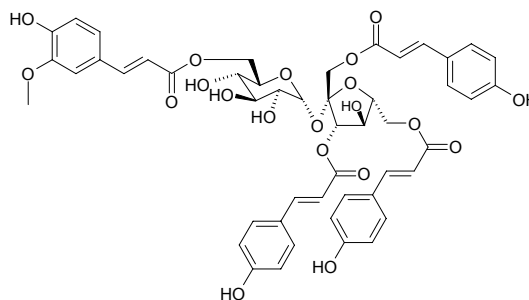
[5523-37-5] $C_{21}H_{22}N_2O_3$ (350.42). Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2.

**22329 L-Valyl-L-valine anhydride**

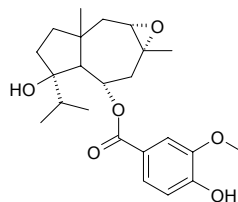
$C_{10}H_{18}N_2O_2$ (198.27). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 660.

**22330 Vanicoside B**

$C_{49}H_{48}O_{20}$ (956.92). Amorphous powder, $[\alpha]_D = 29.47^\circ$ ($c = 0.54$, MeOH). Source: YU LIAO *Polygonum lapathifolium* (aerial parts). Ref: 3091.

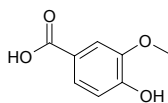
**22331 5α-Vanillate of 2,3-epoxy-jaeschkeanadiol**

$C_{23}H_{32}O_6$ (404.51). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

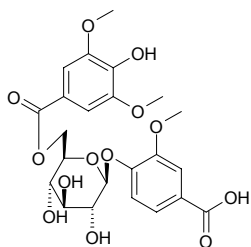


22332 Vanillic acid

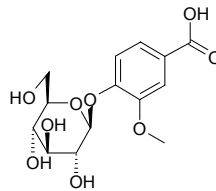
p-Hydroxy-*m*-methoxy-benzonic acid [121-34-6] C₈H₈O₄ (168.15). mp 210°C (sub). **Pharm:** Antibacterial; antifungal; anti-inflammatory (*in vitro*); anti-sickling of cells; anthelmintic; DPPH scavenger (SC₅₀ = 60 μmol/L)^[4247]; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC₅₀ for Formazan formation activity > 100 μmol/L)^[4247]; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3, 10, 30, 100 μmol/L, InRt = 16.2%, 8.2%, -3.6%, 5.9%, respectively; control *L*-NMMA, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)^[4691]; antioxidant (DPPH free radical scavenger, EC₅₀ > 50 μg/mL, 50 μg/mL InRt = 43%, control Ascorbic acid, EC₅₀ = 1.6 μg/mL = 9.1 μmol/L)^[4154]; antioxidant (DPPH free radical scavenger, IC₅₀ = 59.4 μmol/L, control Vitamin E, IC₅₀ = 27.0 μmol/L)^[4502]; cytotoxic (P₃₈₈, ED₅₀ > 50 μg/mL, control Mithramycin, ED₅₀ = 0.58 μg/mL; A549, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.073 μg/mL; HT29, ED₅₀ > 50 μg/mL, Mithramycin, ED₅₀ = 0.076 μg/mL)^[5421]; cytotoxic inactive (*in vitro*, LNCaP, IC₅₀ > 100 μmol/L)^[4607]; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (12.1 ± 1.5)%)^[4304]; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (-6.6 ± 6.0)%)^[4347]. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part), GUA LOU *Trichosanthes kirilowii*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.0006%)^[4706], XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 1.40%~3.32%)^[5508], KAI KOU JIAN *Tupistra chinensis* (underground part)^[4676], LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0008% dw)^[4607], MAO GUO QI *Acer nikoense* (stem cortex), MO ZHI JIAO GU CUI *Casearia membranacea* (stem), QIANG HUO *Notopterygium incisum*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00032% dw)^[4722], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 1.40%~3.32%)^[5508], XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00035%)^[4247], XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0019% dw)^[4691]. **Ref:** 507, 1521, 2529, 4154, 4247, 4304, 4347, 4483, 4488, 4502, 4607, 4676, 4691, 4706, 4722, 5421, 5501, 5508

**22333 1-O-Vanillic acid-6-O-(3'',5''-dimethoxy-galloyl)-β-D-glycoside**

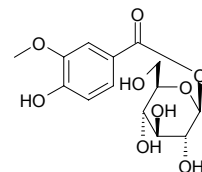
C₂₃H₂₆O₁₃ (510.46). White needles (MeOH), mp 234~235°C. **Source:** DA XUE TENG *Sargentodoxa cuneata* (stem). **Ref:** 4870.

**22334 Vanillic acid 4-O-β-D-glucopyranoside**

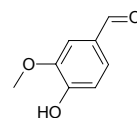
C₁₄H₁₈O₉ (330.29). **Source:** HAI ZHOU GU SUI BU *Davallia mariesii*. **Ref:** 660.

**22335 Vanillic acid β-D-glucopyranosyl ester**

C₁₄H₁₈O₉ (330.29). **Source:** SUO SHA MI *Amomum xanthioides* (seed). **Ref:** 4365.

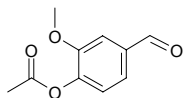
**22336 Vanillin**

[121-33-5] C₈H₈O₃ (152.15). mp 80~81°C. **Pharm:** Antifungal; sedative (mus, ip, 200mg/kg, clearly inhibits spontaneous motion); hypnotic (mus, ip, 200mg/kg, potentiates hypnotic effect of hexobarbital); anticonvulsant (rbt, iv, 40mg/kg, raises electroconvulsive threshold value; mouse ip, 300mg/kg, anti-convulsion induced by corazol); antioxidant (DPPH free radical scavenger, IC₅₀ > 200 μmol/L, control Caffeic acid, IC₅₀ = 25.5 μmol/L)^[5407]; NO production inhibitor (IC₅₀ > 200 μmol/L, control *L*-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]; platelet aggregation inhibitor (washed rabbit platelets, 100 μg/mL, 100 μmol/L AA-induced, InRt = 100%, control 50 μmol/L Aspirin, InRt = 100%; 10 μg/mL collagen-induced, InRt = 6.9%, 100 μmol/L Aspirin, InRt = 4.9%; 0.1 U/mL Thrombin-induced, InRt = 1.9%, 100 μmol/L Aspirin, InRt = 1.7%; 2 ng/mL PAF-induced, InRt = 3.8%, 100 μmol/L Aspirin, InRt = 2.1%)^[5427]; LD₅₀ (mus, ip) = 946 mg/kg, (rat, orl) = 3000 mg/kg. **Source:** AN XI XIANG *Styrax benzoin*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG GUI *Angelica sinensis*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], KAI KOU JIAN *Tupistra chinensis* (underground part), KONG SHI CHUN *Ulva pertusa*, LI MENG *Citrus limonia*, MAN JING ZI *Vitex trifolia*, MU ZEI *Equisetum hiemale*, SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SU HE XIANG *Liquidambar orientalis*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TIAN MA *Gastrodia elata*, XIANG ZI LAN *Vanilla planifolia*, XIN JIANG GAO BEN *Conioselinum vaginatum*, YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood), *Ruta* sp., *Spiraea* sp., *Gymnadenia* sp., *Vanilla* sp., *Dahlia* sp., *Asparagus* sp., *Beta* sp., occurs in many plants. **Ref:** 2, 4, 333, 648, 658, 660, 2529, 4488, 4676, 5407, 5427, 5501.

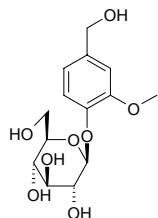


22337 Vanillin acetate

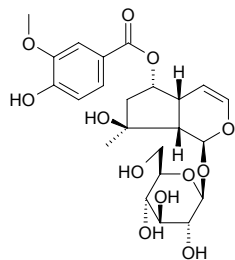
[881-68-5] C₁₀H₁₀O₄ (194.19). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**22338 Vanilloside**

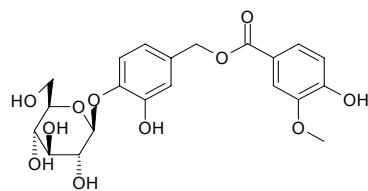
C₁₄H₂₀O₈ (316.31). Pharm: Proliferation stimulator (B cells *in vitro*, 0.00001mol/L, $p < 0.05$); proliferation inhibitor (T cells *in vitro*, 0.0000001mol/L, $p < 0.05$, without any obvious cytotoxic effects). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0003%dw). Ref: 4717.

**22339 6-O-Vanilloylajugol**

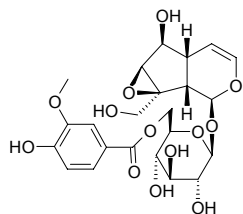
C₂₃H₃₀O₁₂ (498.49). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**22340 Vanilloyl calleryanin**

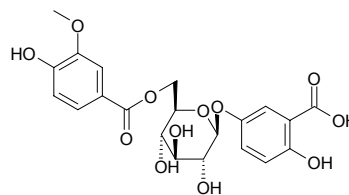
C₂₁H₂₄O₁₁ (452.42). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

**22341 6'-O-Vanilloyl catalpol**

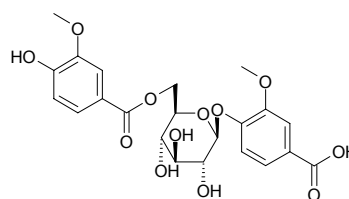
C₂₃H₂₈O₁₃ (512.47). Source: HU HUANG LIAN *Picrorhiza kurrooa*. Ref: 660.

**22342 5-O-β-D-(6-O-Vanilloyl glucopyranosyl) gentisic acid**

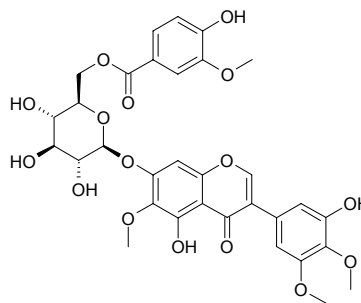
C₂₁H₂₂O₁₂ (466.40). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**22343 4-O-β-D-(6-O-Vanilloyl glucopyranosyl) vanillic acid**

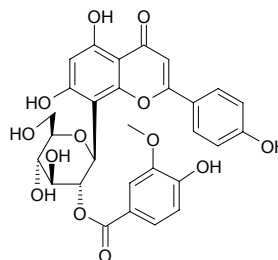
C₂₂H₂₄O₁₂ (480.43). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**22344 6''-O-Vanilloyliridin**

C₃₂H₃₂O₁₆ (672.60). Pale yellow amorphous powder, $[\alpha]_D^{20} = +5.7^\circ$ ($c = 1.0$, MeOH). Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.

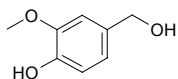
**22345 2''-O-Vanilloylvitexin**

C₂₉H₂₆O₁₃ (582.52). Yellow powder, mp 266–267°C, $[\alpha]_D^{20} = -221.1^\circ$ ($c = 0.038$, MeOH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower). Ref: 5278.

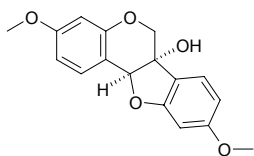


22346 Vanillyl alcohol

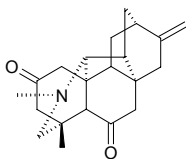
4-Hydroxy-3-methoxybenzyl alcohol [498-00-0] C₈H₁₀O₃ (154.17). mp 115°C. **Pharm:** Sedative (mus, ip, 200mg/kg, clearly inhibits spontaneous motion); hypnotic (mus, ip, 200mg/kg, potentiates hypnotic effect of hexobarbital); anticonvulsant (rbt, iv, 400mg/kg, raises electroconvulsive threshold value, effective arrest effectively arrests epilepsy attack, control epileptic discharge in electro-encephalogram, anticonvulsant caused by corazol); choleric (bile secretion promotor); LD₅₀ (mouse, ip) = (891.3±31.7)mg/kg. **Source:** TIAN MA *Gastrodia elata*. **Ref:** 4, 5501.

**22347 (-)-Variabilin**

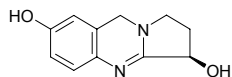
[3187-52-8] C₁₇H₁₆O₅ (300.32). **Pharm:** Antifungal. **Source:** YI BIAN HUANG TAN *Dalbergia variabilis*. **Ref:** 658.

**22348 Variegatine**

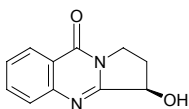
C₂₁H₂₇NO₂ (325.45). Amorphous solid, [α]_D²⁰ = +20.5° (c = 0.41, CHCl₃). **Source:** BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

**22349 Vasicinol**

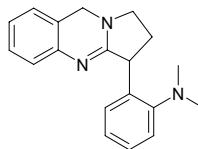
[5081-51-6] C₁₁H₁₂N₂O₂ (204.23). mp 260°C. **Pharm:** Reduces fertility in insects; antihistamine; cholinesterase inhibitor; insect antifeedant; antihypertensive. **Source:** DA BO GU *Adhatoda vasica*, HUANG HUA ZI *Sida cordifolia*. **Ref:** 6, 658.

**22350 Vasicinone**

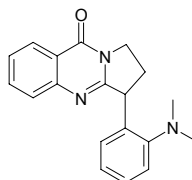
L-Vasicinone; (*R*)-2,3-Dihydro-3-hydroxy-pyrrolo[2,1-*b*]quinazolin-9(1*H*)-one [486-64-6] C₁₁H₁₀N₂O₂ (202.21). mp (-) 200~201°C, (±) 211~212°C. **Pharm:** Antiallergic; antispasmodic (gpg, bronchial contraction induced by histamine). **Source:** DA BO GU *Adhatoda vasica*, HUANG HUA ZI *Sida cordifolia*, LUO TUO HAO *Peganum nigellastrum*, LUO TUO PENG *Peganum harmala*, LUO TUO PENG ZI *Peganum harmala*. **Ref:** 6, 658.

**22351 Vasicoline**

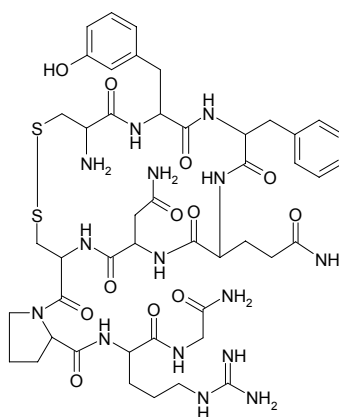
[33903-13-8] C₁₉H₂₁N₃ (291.40). mp 135°C. **Source:** DA BO GU *Adhatoda vasica*. **Ref:** 6.

**22352 Vasicolinone**

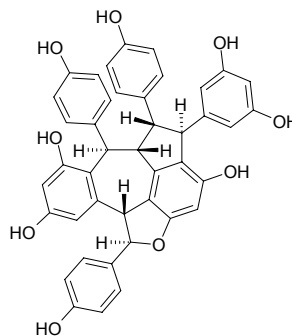
[33903-15-0] C₁₉H₁₉N₃O (305.38). mp 152°C. **Source:** DA BO GU *Adhatoda vasica*. **Ref:** 6.

**22353 Vasopressin**

C₄₆H₆₅N₁₅O₁₂S₂ (1084.25). **Source:** NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. **Ref:** 6.

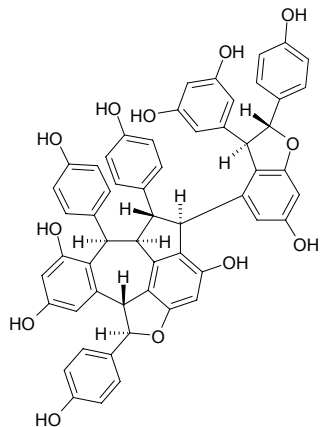
**22354 Vaticanol A**

C₄₂H₃₂O₉ (680.72). Pale yellow amorphous solid, [α]_D²⁴ = -165° (c = 0.1, MeOH). **Source:** QING MEI *Vatica rassak* (stem cortex). **Ref:** 3950.

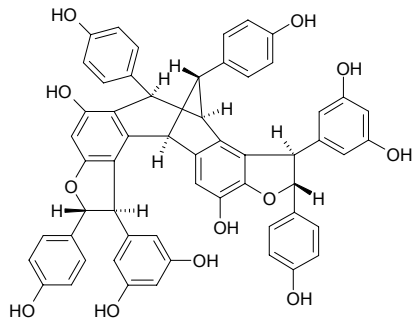


22355 Vaticanol B

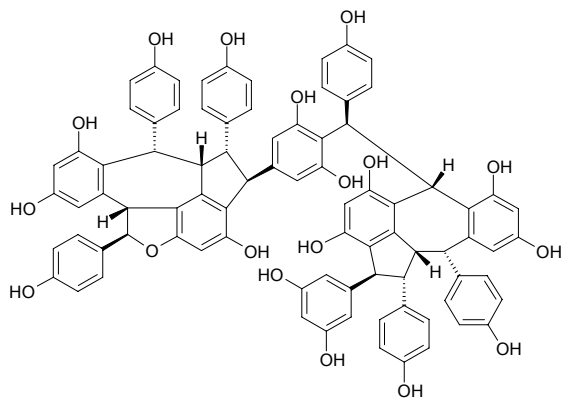
$C_{56}H_{42}O_{12}$ (906.95). Pale yellow amorphous solid, $[\alpha]_D^{25} = -14^\circ$ ($c = 0.1$, MeOH). Source: QING MEI *Vatica rassak* (stem cortex). Ref: 3950.

**22356 Vaticanol C**

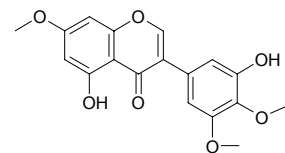
$C_{56}H_{42}O_{12}$ (906.95). Pale yellow amorphous solid, $[\alpha]_D^{25} = -38^\circ$ ($c = 0.1$, MeOH). Source: QING MEI *Vatica rassak* (stem cortex). Ref: 3950.

**22357 Vaticanol D**

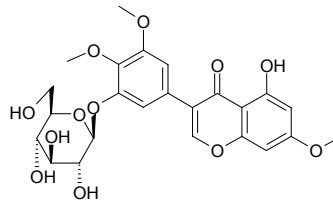
$C_{84}H_{64}O_{18}$ (1361.44). Source: QING MEI *Vatica rassak*. Ref: 2234.

**22358 Vavain**

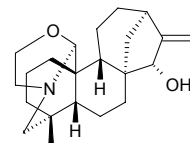
Pentandrin $C_{18}H_{16}O_7$ (344.32). Pale yellow amorphous powder (MeOH); mp 162~163°C. Source: JI BEI *Ceiba pentandra* (bark). Ref: 4171.

**22359 Vavain 3'-O-β-D-glucopyranoside**

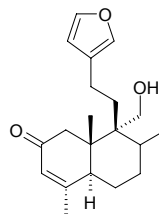
Pentandrin glucoside $C_{24}H_{26}O_{12}$ (506.47). White amorphous powder (MeOH), mp 127~128°C, $[\alpha]_D^{20} = -14.5^\circ$ ($c = 0.2$, pyridine), -4.0° ($c = 0.1$, EtOH). Source: JI BEI *Ceiba pentandra* (bark). Ref: 4171.

**22360 Veatchine**

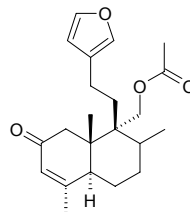
[76-53-9] $C_{22}H_{33}NO_2$ (343.51). Pharm: Toxin (causes asthma, convulsion and breath faintness). Source: *Garrya veatchii*. Ref: 658.

**22361 Velamolone**

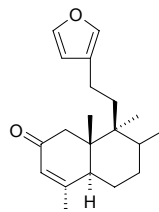
$C_{20}H_{28}O_3$ (316.44). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.

**22362 Velamolone acetate**

$C_{22}H_{30}O_4$ (358.48). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.

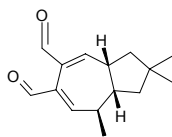
**22363 Velamone**

$C_{20}H_{28}O_2$ (300.44). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.

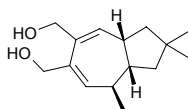


22364 Velleral

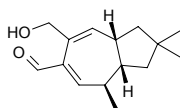
$C_{15}H_{20}O_2$ (232.33). Source: LA RU GU *Lactarius piperatus* [Syn. *Agaricus piperatus*], RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22365 Vellerdiol**

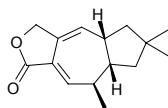
$C_{15}H_{24}O_2$ (236.36). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22366 Vellerol**

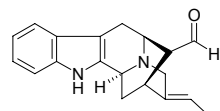
$C_{15}H_{22}O_2$ (234.34). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22367 Vellerolactone**

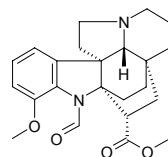
$C_{15}H_{20}O_2$ (232.33). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22368 Vellosimine**

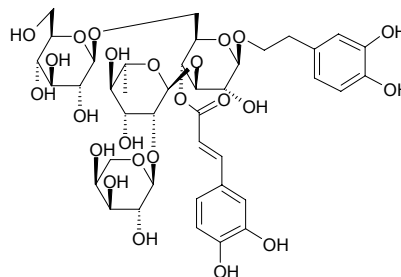
[6874-98-2] $C_{19}H_{20}N_2O$ (292.38). Crystals (methanol), mp 305~306°C, mp 260°C. Pharm: Antineoplastic (mus, W₂₅₆, Lewis lung cancer, melanotic carcinoma B16). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*, LUO FU MU *Rauvolfia verticillata*, HAI NAN LUO FU MU *Rauvolfia verticillata* var. *hainanensis*. Ref: 6, 42, 660, 1521.

**22369 Vellosine**

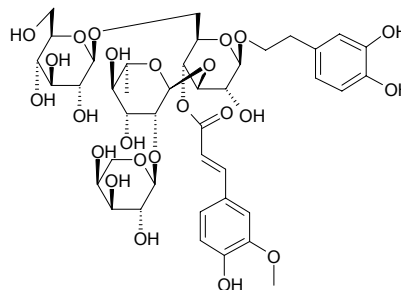
$C_{23}H_{28}N_2O_4$ (396.49). Source: SI YANG SHU YE BAI JIAN MU *Aspidosperma populifolium*, *Aspidosperma refractum*. Ref: 660.

**22370 Velutinoside I**

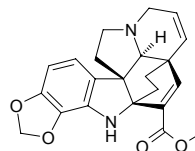
$C_{40}H_{54}O_{24}$ (918.86). Amorphous yellow powder, $[\alpha]_D^{20} = -6.1^\circ$ ($c = 0.21$, MeOH). Source: DUAN RONG MAO OU XIA ZHI CAO *Marrubium velutinum* (aerial parts). Ref: 3448.

**22371 Velutinoside II**

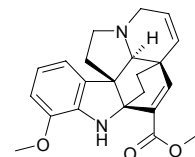
$C_{41}H_{56}O_{24}$ (932.89). Amorphous yellow powder, $[\alpha]_D^{20} = -6.6^\circ$ ($c = 0.05$, MeOH). Source: DUAN RONG MAO OU XIA ZHI CAO *Marrubium velutinum* (aerial parts). Ref: 3448.

**22372 Venacarpine A**

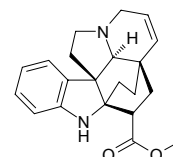
$C_{22}H_{22}N_2O_4$ (378.43). Colorless oil, $[\alpha]_D = +18^\circ$ ($c = 0.43$, CHCl₃). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

**22373 Venacarpine B**

$C_{22}H_{24}N_2O_3$ (364.45). Colorless oil, $[\alpha]_D = +12^\circ$ ($c = 0.20$, CHCl₃). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

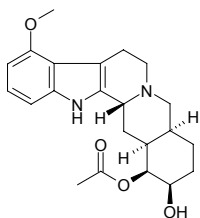
**22374 Venalstonine**

$C_{21}H_{24}N_2O_2$ (336.44). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

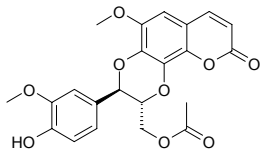


22375 Venenatine

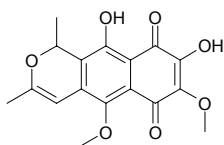
[1055-75-0] $C_{22}H_{28}N_2O_4$ (384.48). Colorless acicular crystals (methanol), mp 123~125°C (dec), $[\alpha]_D = -76.1^\circ$. **Pharm:** Sedative; hypnotic (potentiates hypnotic effect of cyclobarbital). **Source:** YIN DU YA JIAO SHU *Alstonia venenata*. **Ref:** 661.

**22376 Venkatasin**

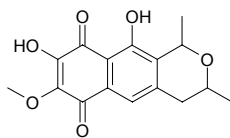
$C_{22}H_{20}O_9$ (428.40). Yellow crystals (MeOH), mp 113~115°C, $[\alpha]_D^{25} = +16.0^\circ$ ($c = 0.09$, $CHCl_3$). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed; yield = 0.00018% dw). **Ref:** 2096.

**22377 Ventilagolin**

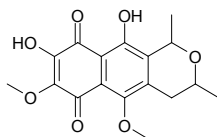
$C_{17}H_{16}O_7$ (332.31). Red lamellar crystals, mp 165~167°C. **Source:** YI HE GUO *Ventilago leiocarpa*. **Ref:** 258.

**22378 Ventiloquinone I**

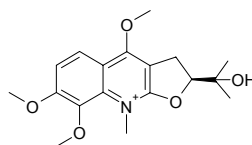
$C_{16}H_{16}O_6$ (304.3). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**22379 Ventiloquinone K**

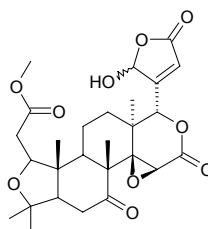
$C_{17}H_{18}O_7$ (334.33). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**22380 Veprisinium**

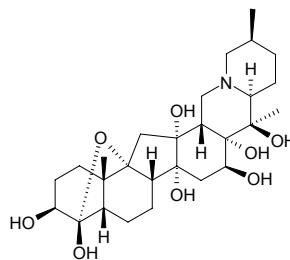
[79808-98-3] $C_{18}H_{24}NO_5^+$ (334.40). **Pharm:** Antibacterial (*Staphylococcus aureus*). **Source:** LU YI CI JU *Vepris louisii*. **Ref:** 658.

**22381 Veprisonic acid**

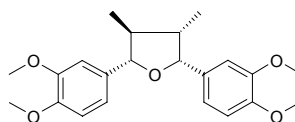
23-Oxo-21 ξ -hydroxy-21,23-dihydroveprisono $C_{27}H_{34}O_{10}$ (518.57). White amorphous solid. **Source:** *Bouchardatia neurococca*. **Ref:** 3445.

**22382 Veracevine**

[5876-23-3] $C_{27}H_{43}NO_8$ (509.65). **Pharm:** Anthelmintic. **Source:** WEI JING BAI HE *Schoenocoulon officinale*. **Ref:** 658.

**22383 Veraguensin**

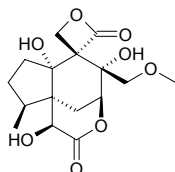
(-)-Veraguensin [19950-55-1] $C_{22}H_{28}O_5$ (372.47). **Pharm:** PAF antagonist; NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 35.1\mu\text{mol/L}$, control Quercetin, $IC_{50} = 26.8\mu\text{mol/L}$)^[2537]. **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], JIAN JIAN MU LAN *Magnolia acuminata*, YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*], XIN YI *Magnolia liliflora*, MEI ZHOU SAN BAI CAO *Saururus cernuus*. **Ref:** 660, 658, 2537.



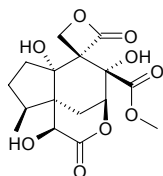
22384 Veranisatin A

[153445-92-2] C₁₆H₂₀O₈ (342.35). Colorless prismatic crystals (ethyl acetate), mp 181~182°C, [α]_D²² = -14.8° (c = 1.0, methanol). **Pharm:** Antipyretic (mus, orl, 1mg/kg, body temperature lowers by 4.2°C); analgesic (mus, orl, 0.1mg/kg, competitor to AcOH and crushing); sedative (mus, orl, 0.1mg/kg, reduces activity induced by methylamphetamine); LD₁₀₀ (orl) = 3mg/kg.

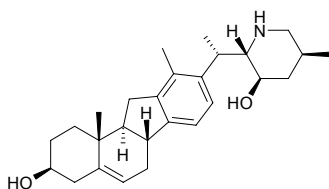
Source: BA JIAO HUI XIANG *Illicium verum*. **Ref:** 956, 1005.

**22385 Veranisatin B**

[153445-93-3] C₁₆H₂₀O₉ (356.33). Colorless prismatic crystals (ethyl acetate), mp 212~213°C, [α]_D²² = -15° (c = 1.0, methanol). **Pharm:** Antipyretic (mus, orl, 1mg/kg body temperature lowers by 4.2Cels-degree); LD₁₀₀ (orl) = 3mg/kg. **Source:** BA JIAO HUI XIANG *Illicium verum*. **Ref:** 956, 1005.

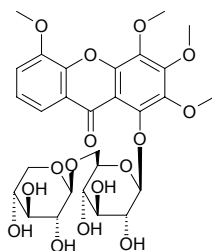
**22386 Veratramine**

[60-70-8] C₂₇H₃₉NO₂ (409.62). **Pharm:** Antihypertensive. **Source:** LV LI LU *Veratrum viride*, MAO YE LI LU *Veratrum grandiflorum*. **Ref:** 658.

**22387 Veratriloside C**

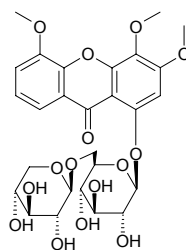
2,3,4,5-Tetramethoxy-xanthone-1-O-β-D-glucopyranosyl-(1→6)-β-D-xylopyranoside C₂₈H₃₄O₁₆ (626.57). Light yellow brown powder, mp 205~206°C.

Source: HUANG QIN JIAO *Veratrilla baillonii*. **Ref:** 696.

**22388 Veratriloside D**

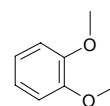
3,4,5-Trimethoxy-xanthone-1-O-β-D-glucopyranosyl-(1→6)-β-D-xylopyranoside C₂₇H₃₂O₁₅ (596.55). White acicular crystals, mp 175~178°C.

Source: HUANG QIN JIAO *Veratrilla baillonii*. **Ref:** 696.

**22389 Veratrole**

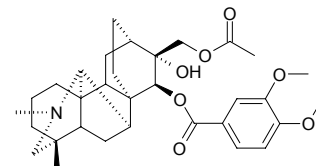
Catechol dimethyl ether [91-16-7] C₈H₁₀O₂ (138.17). mp 22.5°C.

Source: FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**22390 15-Veratroyl-17-acetyldictizine**

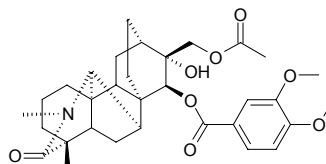
C₃₂H₄₃NO₇ (553.70). Amorphous solid, [α]_D²⁵ = +69.1° (c = 0.81, CHCl₃).

Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

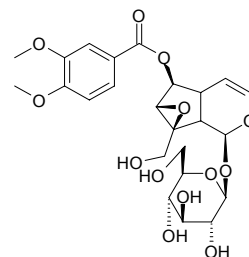
**22391 15-Veratroyl-17-acetyl-19-oxodictizine**

C₃₂H₄₁NO₈ (567.69). Amorphous solid, [α]_D²⁵ = +49.3° (c = 0.15, CHCl₃).

Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

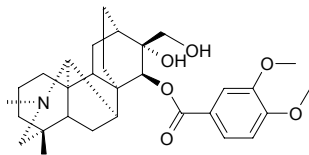
**22392 6-O-Veratroyl-catalpol**

C₂₄H₃₀O₁₃ (526.50). **Source:** A LA BO PO PO NA *Veronica persica* (aerial parts). **Ref:** 4211.

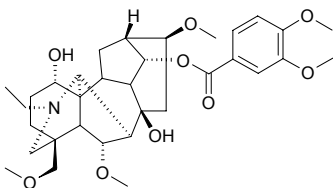


22393 15-Veratroyldictizine

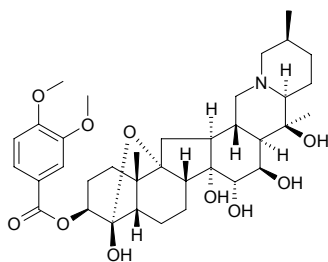
$C_{30}H_{41}NO_6$ (511.66). Amorphous solid, $[\alpha]_D^{20} = +79.6^\circ$ ($c = 0.72$, $CHCl_3$).
Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

**22394 14-O-Veratroylneoline**

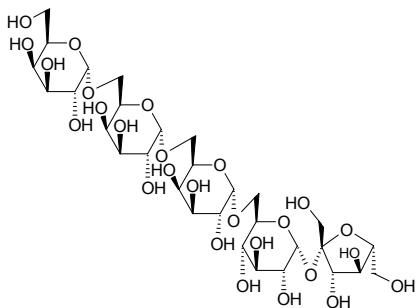
$C_{33}H_{47}NO_9$ (601.74). Amorphous powder (MeOH), $[\alpha]_D^{23} = +22.1^\circ$ ($c = 0.75$, $CHCl_3$). **Source:** FU ZI *Aconitum carmichaeli* (tuber). **Ref:** 4373.

**22395 Veratroyl zygadenine**

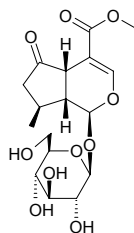
$C_{36}H_{51}NO_{10}$ (657.81). mp 270~271°C. **Pharm:** Antihypertensive (dog iv or im, 0.5~10µg/kg); LD₅₀ (mus) = 8.9mg/kg. **Source:** BAI LI LU *Veratrum album*, LI LU *Veratrum nigrum*, BAN BIAN LIAN ZHUANG LI LU *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*]. **Ref:** 6, 658.

**22396 Verbascose**

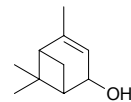
[546-62-3] $C_{30}H_{52}O_{26}$ (828.73). mp 219~220°C. **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], WU SE MEI *Lantana camara*. **Ref:** 2, 234.

**22397 Verbenalin**

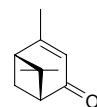
[548-37-8] $C_{17}H_{24}O_{10}$ (388.37). Colorless bitter acicular crystals or rhomboid lamellar crystals (ethanol), mp 182~183°C, $[\alpha]_D^{25} = -173^\circ$ ($c = 3.98$, water). **Pharm:** Choleric (bile secretion promotor); laxative (mus, ED₅₀ = 0.11g/kg); parasympathomimetic; bidirectional action to sympathetic fibers (excites sympathetic fibers in low dose and inhibits them in high dose). **Source:** JI YE MA BIAN CAO *Verbena hastata*, JIAN TING MA BIAN CAO *Verbena stricta*, MA BIAN CAO *Verbena officinalis*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 6, 661, 5501.

**22398 Verbenol**

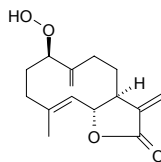
2-Pinen-4-ol [473-67-6] $C_{10}H_{16}O$ (152.24). (+) (*cis*) mp 15.5°C, bp 90°C/10mmHg, (+) (*trans*) mp 24°C, bp 92°C/10mmHg. **Source:** MI DIE XIANG *Rosmarinus officinalis*. **Ref:** 6.

**22399 Verbenone**

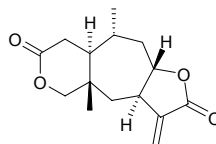
2-Pinen-4-one [18309-32-5] $C_{10}H_{14}O$ (150.22). **Pharm:** LD₅₀ (mus, ip) = 250mg/kg. **Source:** SAN YE MA BIAN CAO *Verbena triphylla* [Syn. *Lippia citriodora*]. **Ref:** 658.

**22400 Verlotorin**

Peroxyconstunolide $C_{15}H_{20}O_4$ (264.32). **Source:** YUE GUI YE *Laurus nobilis*. **Ref:** 660.

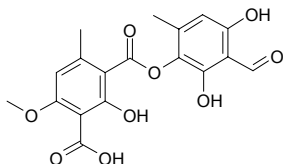
**22401 Vermeerin**

[16983-23-6] $C_{15}H_{20}O_4$ (264.33). **Pharm:** Toxin (mammal). **Source:** family Asteraceae spp. **Ref:** 658.

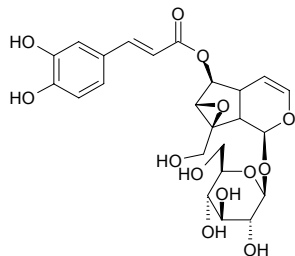


22402 Vermicularin

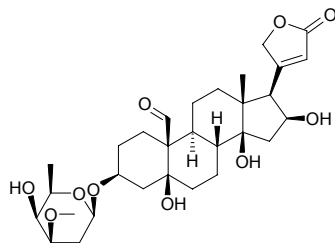
$C_{18}H_{16}O_9$ (376.32). Source: XUE CHA *Thamnia vermicularis*. Ref: 660.

**22403 Verminoside**

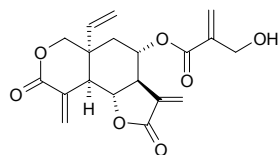
$C_{24}H_{28}O_{13}$ (524.48). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**22404 Vernadigin**

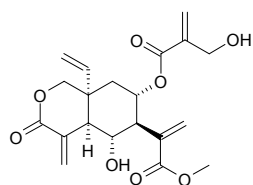
$C_{30}H_{44}O_{10}$ (564.68). Pharm: Antiarrhythmic; toxin (vertebrate). Source: CHUN FU SHOU CAO *Adonis vernalis*. Ref: 658.

**22405 Vernodalin**

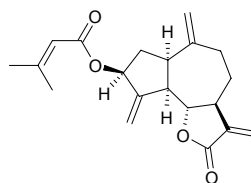
[21871-10-3] $C_{19}H_{20}O_7$ (360.37). Pharm: Antineoplastic; cytotoxic (KB, *in vitro*, $ED_{50} = 1.8\mu\text{g/mL}$); insect antifeedant. Source: BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, BAN JIU JU *Vernonia esculenta*. Ref: 5, 661.

**22406 Vernodalol**

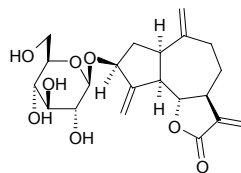
[65388-17-2] $C_{20}H_{24}O_8$ (392.41). Crystals (CHCl_3), mp 133~134°C, $[\alpha]_D = +36.5^\circ$ ($c = 1$, CHCl_3). Pharm: Insect antifeedant. Source: QU CHONG BAN JIU JU *Vernonia anthelmintica*, *Vernonia lasiopus*. Ref: 658, 1521, 5359.

**22407 Vernoflexin**

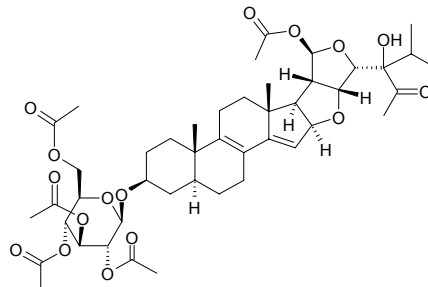
[57576-43-9] $C_{20}H_{24}O_4$ (328.41). Pharm: Antineoplastic; cytotoxic. Source: WAN YAN BAN JIU JU *Vernonia flexuosa*, ZHONG GUO BAN JIU JU *Vernonia chinense*. Ref: 658.

**22408 Vernoflexuaside**

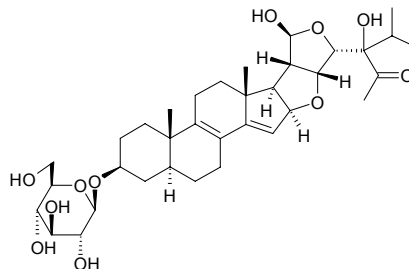
[57576-33-7] $C_{21}H_{28}O_8$ (408.46). Pharm: Cytotoxic (L-5178Y, $ID_{50} = 20.6\mu\text{g/mL}$); cell growth regulator (root of onion, antimitotic). Source: WAN YAN BAN JIU JU *Vernonia flexuosa*. Ref: 658, 1738.

**22409 Vernoguinoside**

16 β ,22R;21,23S-Diepoxy-3 β -O- β -D-glucopyranosyloxy-21S,24-dihydroxystigmasta-8,14-dien-28-one $C_{45}H_{62}O_{16}$ (858.99). White powder (MeOH), mp 112~114 °C, $[\alpha]_D^{22} = -15.3^\circ$ ($c = 2.3$, CHCl_3). Pharm: Antitrypanosomal (inhibits four strains of bloodstream trypanostigotes *Trypanosoma brucei rhodesiense*, $IC_{50} = 3\text{--}5\text{mg/mL}$). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 2031.

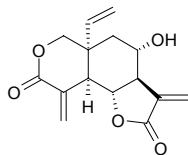
**22410 Vernoguinsterol**

16 β ,22R;21,23S-Diepoxy-3 β ,21S,24-trihydroxystigmasta-8,14-dien-28-one $C_{35}H_{52}O_{11}$ (648.80). White powder (acetone). Pharm: Antitrypanosomal (inhibits four strains of bloodstream trypanostigotes *Trypanosoma brucei rhodesiense*, $IC_{50} = 3\text{--}5\text{mg/mL}$). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 2031.

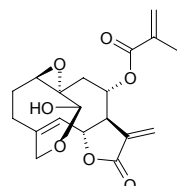


22411 Vernolepin

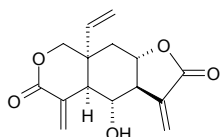
[18542-37-5] C₁₅H₁₆O₅ (276.29). Colorless prismatic crystals (chloroform–petroleum ether), mp 181–182°C, [α]_D²⁸ = +72° (*c* = 1.04, acetone). **Pharm:** Antineoplastic (rat W₂₅₆, 10mg/kg, biotic prolonged rate = 46%, 12mg/kg, biotic prolonged rate = 32%); cytotoxic (KB *in vitro*, ED₅₀ = 1.7μg/mL, leukemia cells *in vitro*, ID₅₀ 0.43 = μmol/L); plant growth regulator. **Source:** BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661, 5507.

**22412 Vernolide**

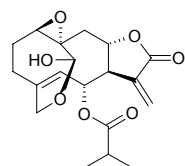
[27428-86-0] C₁₉H₂₂O₇ (362.38). Lamellar crystals (acetone–petroleum ether), mp 180–183°C (dec), [α]_D = +230° (chloroform). **Pharm:** Cytotoxic (KB *in vitro*, ED₅₀ = 2.0μg/mL). **Source:** BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, YOU SE BAN JIU JU *Vernonia colorata*. **Ref:** 5, 661.

**22413 Vernomenin**

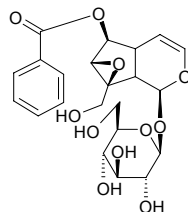
[20107-26-0] C₁₅H₁₆O₅ (276.29). **Pharm:** Antineoplastic; cytotoxic (KB *in vitro*, ED₅₀ = 20μg/mL). **Source:** BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661.

**22414 Vernomygdin**

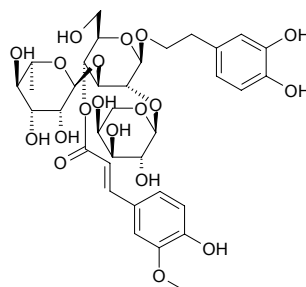
[21871-14-7] C₁₉H₂₄O₇ (364.40). mp 208–210°C. **Pharm:** Antineoplastic; cytotoxic (KB *in vitro*, ED₅₀ = 1.5μg/mL). **Source:** BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661.

**22415 Veronicoside**

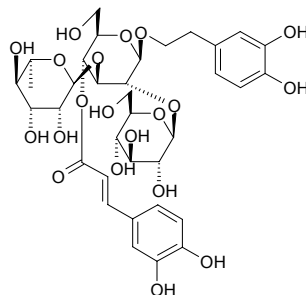
C₂₂H₂₆O₁₁ (466.45). **Source:** A LA BO PO PO NA *Veronica persica*, HU HUANG LIAN *Picrorhiza kurroa*. **Ref:** 660, 4211.

**22416 Verpectoside A**

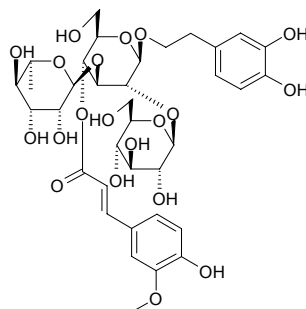
2-(3,4-Dihydroxyphenyl)ethyl-*O*- α -L-arabinopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-feruloyl)- β -D-glucopyranoside C₃₅H₄₆O₁₉ (770.75). Amorphous powder, [α]_D²³ = –59° (*c* = 0.03, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 13%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

**22417 Verpectoside B**

2-(3,4-Dihydroxyphenyl)ethyl-*O*- β -D-glucopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-caffeoyl)- β -D-glucopyranoside C₃₅H₄₆O₂₀ (786.74). Amorphous powder, [α]_D²³ = +135° (*c* = 0.08, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 52%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

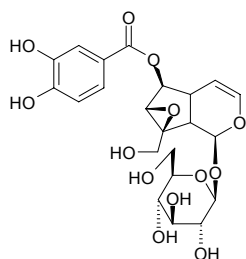
**22418 Verpectoside C**

2-(3,4-Dihydroxyphenyl)ethyl-*O*- β -D-glucopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-feruloyl)- β -D-glucopyranoside C₃₆H₄₈O₂₀ (800.77). Amorphous powder, [α]_D²³ = +228° (*c* = 0.11, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 28%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

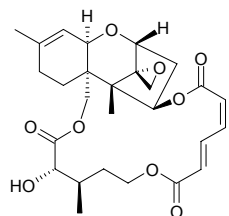


22419 Verproside

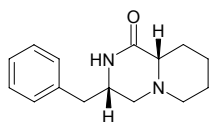
$C_{22}H_{26}O_{13}$ (498.44). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**22420 Verrucarin A**

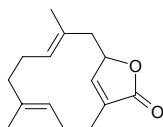
[3148-09-2] $C_{27}H_{34}O_9$ (502.57). Pharm: Antibacterial; cytotoxic; LD_{50} (mus, iv) = 1.5mg/kg, (rat, iv) = 0.87mg/kg, (rbt, iv) = 0.54mg/kg. Source: *Myrothecium verrucaria*. Ref: 658.

**22421 Verruculotoxin**

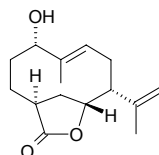
[56092-63-8] $C_{15}H_{20}N_2O$ (244.34). Pharm: LD_{50} (one-day-old chicken) = 20mg/kg. Source: *Penicillium verruculosum*. Ref: 658.

**22422 Versicolactone A**

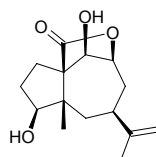
Neoaristolactone [136315-17-8] $C_{15}H_{20}O_2$ (232.32). White acicular crystals, mp 138~140°C, $[\alpha]_D^{15} = +38^\circ$ ($c = 1.0$, ethanol); colorless prismatic crystals, slightly soluble in cold petroleum ether, soluble in hot petroleum ether and other organic solvents, mp 130~132°C (petroleum ether), $[\alpha]_D^6 = +486^\circ$ ($c = 0.1276$, chloroform). Pharm: Antineoplastic (hmn liver cancer QGY-7703) Source: MIAN MAO MA DOU LING *Aristolochia mollissima*, BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 209, 215, 1201.

**22423 Versicolactone B**

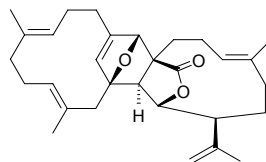
$C_{15}H_{22}O_3$ (250.34). White snowflake-like crystals, mp 135~136°C. Source: BIAN SE MA DOU LING *Aristolochia versicolor*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0099%dw)^[3026]. Ref: 51, 3026.

**22424 Versicolactone C**

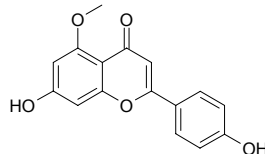
$C_{15}H_{22}O_4$ (266.34). White short claviform crystals, mp 181~182°C $[\alpha]_D^{36} = -11.4^\circ$ ($c = 2.6$, ethanol). Source: BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 51.

**22425 Versicolactone D**

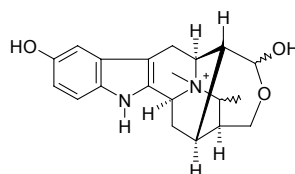
$C_{30}H_{40}O_3$ (448.65). Colorless hyaloid crystals, mp 172.0~172.5°C. Source: BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 146.

**22426 Vertia flavone**

[29376-68-9] $C_{16}H_{12}O_5$ (284.27). mp 325~327°C. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

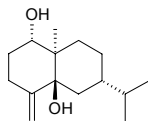
**22427 Verticillatine**

[98243-58-4] $C_{20}H_{25}N_2O_3$ (341.43). Colorless acicular crystals, mp 324~326°C (dec). Pharm: Antihypertensive (normal and hypertensive animal model, reduces blood pressure rapidly and presents dose-response relationship, shows obvious curative effect for serious and moderate hypertension patients with low side effects); ganglionic blocker. Source: HONG GUO LUO FU MU *Rauwolfia verticillata* f. *rubrocarpa*, HAI NAN LUO FU MU *Rauwolfia verticillata* var. *hainanensis*. Ref: 26, 660, 925, 1521.

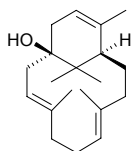


22428 Verticillatol

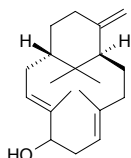
$C_{15}H_{26}O_2$ (238.37). Colorless oil, $[\alpha]_D^{25} = -41.2^\circ$ ($c = 0.13$, $CHCl_3$). Source: DIE DA LAO *Litsea verticillata*. Ref: 1984.

**22429 ent-Verticilla-4,9,13-trien-2 α -ol**

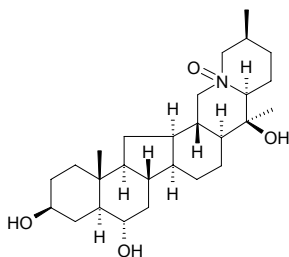
$C_{20}H_{32}O$ (288.48). Colorless crystals (*n*-hexane), mp 93–95°C, $[\alpha]_D^{20} = -208.9^\circ$ ($c = 2.83$). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

**22430 ent-Verticilla-4(18),9,13-trien-12 α -ol**

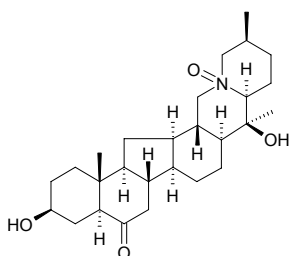
$C_{20}H_{32}O$ (288.48). Colorless crystals (*n*-hexane), mp 116–117°C, $[\alpha]_D^{17} = -150.8^\circ$ ($c = 0.91$). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

**22431 Verticine-N-oxide**

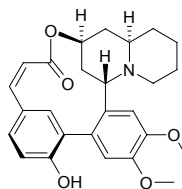
$C_{27}H_{45}NO_4$ (447.66). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22432 Verticinone-N-oxide**

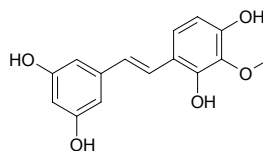
$C_{27}H_{43}NO_4$ (445.65). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22433 Vertine**

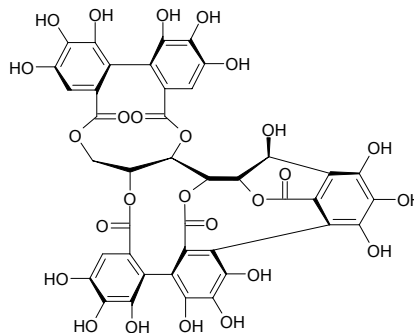
[10308-13-1] $C_{26}H_{29}NO_5$ (435.53). mp 245°C, $[\alpha]_D = +39^\circ$ (chloroform). Pharm: Anti-inflammatory (swollen foot model caused by carrageenan); antihypertensive; sedative. Source: DI KE DONG *Decodon verticillatus*, HUANG WEI *Heimia myrtifolia*, FU RUI ZI WEI *Lagerstroemia fauriei*. Ref: 661.

**22434 Verussustilbene**

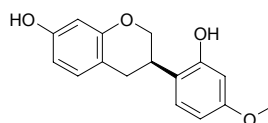
trans-3-Methoxy-2,3',4,5'-tetrahydroxystilbene $C_{15}H_{14}O_5$ (274.28). Yellowish amorphous powder. Source: WU SU LI LI LU *Veratrum nigrum* var. *ussuriense*. Ref: 438.

**22435 Vescalagin**

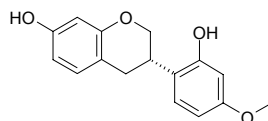
[36001-47-5] $C_{41}H_{26}O_{26}$ (934.65). Prismatic crystals (water), $[\alpha]_{578nm}^{20} = -105.2^\circ$ ($c = 1$, water). Pharm: Cytotoxic (malanotic carcinoma RPMI-7951, $ED_{50} = 0.58\mu g/mL$). Source: BAN LI *Castanea mollissima* (leaf), LI SHU PI *Castanea mollissima*. Ref: 660,900.

**22436 (3R)-Vestitol**

$C_{16}H_{16}O_4$ (272.30). Pharm: Antifungal. Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 660.

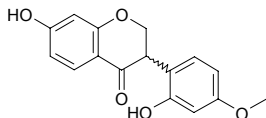
**22437 (3S)-Vestitol**

$C_{16}H_{16}O_4$ (272.30). Pharm: Antifungal. Source: YI BIAN HUANG TAN *Dalbergia variabilis*. Ref: 658.

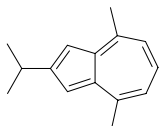


22438 Vestitone

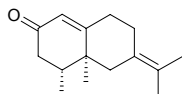
[57462-46-1] C₁₆H₁₄O₅ (286.29). Pharm: Antifungal. Source: LV DOU *Onobrychis viciifolia*. Ref: 658.

**22439 Vetivazulene**

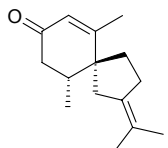
4,8-Dimethyl-2-(1-methylethyl)-azulene C₁₅H₁₈ (198.31). Violet oil. Source: YING ZHI YE TAI *Lepidozia vitrea* (essential oil). Ref: 5209.

**22440 α-Vetivone**

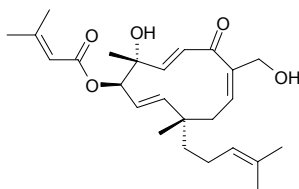
[15764-04-2] C₁₅H₂₂O (218.34). Pharm: Flavorant. Source: YAN LAN CAO *Vetiveria zizanioides*. Ref: 658.

**22441 β-Vetivone**

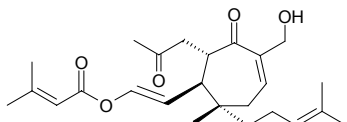
[18444-79-6] C₁₅H₂₂O (218.34). Pharm: Flavorant. Source: YAN LAN CAO *Vetiveria zizanioides*. Ref: 658.

**22442 Vibsantin B**

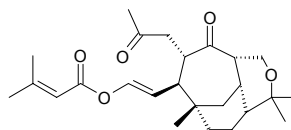
C₂₅H₃₆O₅ (416.56). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0055%). Ref: 4638.

**22443 Vibsantin C**

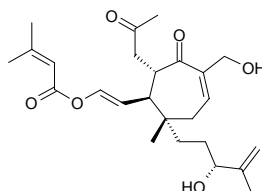
C₂₅H₃₆O₅ (416.56). Pharm: Cytotoxic (KB cells, IC₅₀ = 11.3 μmol/L)^[4168]. Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00034%dw). Ref: 3004, 4168.

**22444 Vibsantin E**

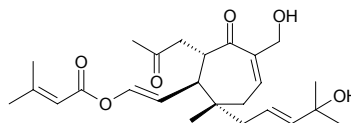
C₂₅H₃₆O₅ (416.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.005%). Ref: 4168, 4638.

**22445 Vibsantin G**

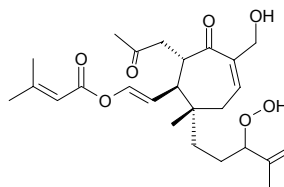
C₂₅H₃₆O₆ (432.56). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00045%dw). Ref: 3004.

**22446 Vibsantin H**

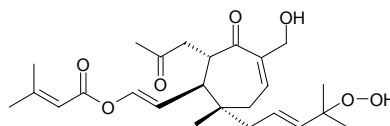
C₂₅H₃₆O₆ (432.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00023%dw). Ref: 3004, 4168.

**22447 Vibsantin I**

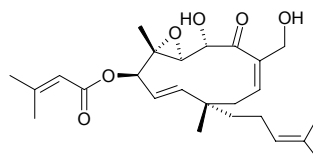
C₂₅H₃₆O₇ (448.56). Colorless oil, [α]_D²⁰ = +73.6° (c = 0.56, CHCl₃). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

**22448 Vibsantin K**

C₂₅H₃₆O₇ (448.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf). Ref: 4168.

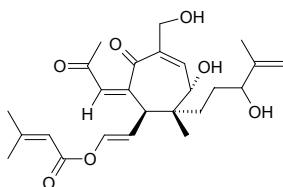
**22449 Vibsantin L**

C₂₅H₃₆O₆ (432.56). Colorless oil, [α]_D²⁰ = -61.6° (c = 0.20, CHCl₃). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

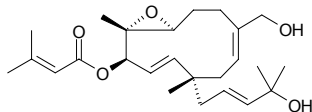


22450 Vibsantin M

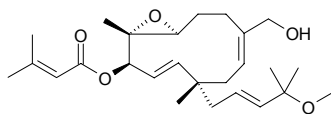
$C_{25}H_{34}O_7$ (446.55). Colorless amorphous solid, $[\alpha]_D^{26} = +9.1^\circ$ ($c = 0.8$, $CHCl_3$). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00002%dw). Ref: 3004.

**22451 Vibsantin P**

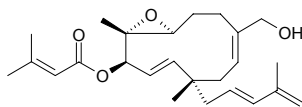
$C_{25}H_{38}O_5$ (418.58). Colorless amorphous solid, $[\alpha]_D^{25} = +24^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 2.25\mu g/mL$; A549, $ED_{50} = 4.62\mu g/mL$; HT29, $ED_{50} = 9.97\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22452 Vibsantin Q**

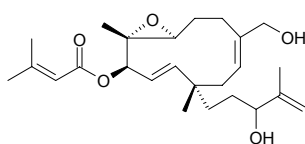
$C_{26}H_{40}O_5$ (432.61). Colorless amorphous solid, $[\alpha]_D^{25} = +23^\circ$ ($c = 0.4$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22453 Vibsantin R**

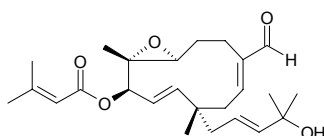
$C_{25}H_{36}O_4$ (400.56). Colorless amorphous solid, $[\alpha]_D^{25} = +43^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22454 Vibsantin S**

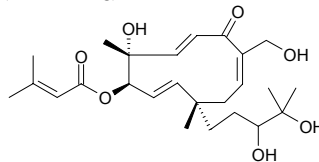
$C_{25}H_{38}O_5$ (418.58). Oil, $[\alpha]_D^{25} = +25^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22455 Vibsantin T**

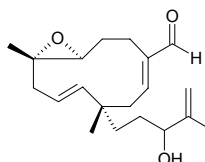
$C_{25}H_{36}O_5$ (416.56). Oil, $[\alpha]_D^{25} = +46^\circ$ ($c = 0.4$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22456 Vibsantin U**

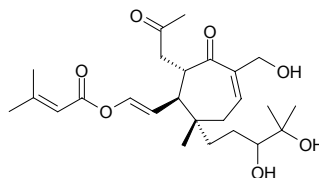
$C_{25}H_{38}O_7$ (450.58). Gum, $[\alpha]_D^{25} = +21^\circ$ ($c = 0.6$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22457 Vibsantin V**

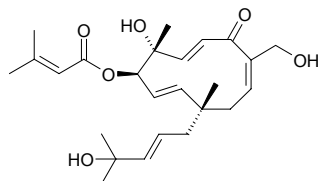
$C_{20}H_{30}O_3$ (318.46). Colorless amorphous solid, $[\alpha]_D^{25} = +30^\circ$ ($c = 0.5$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} < 10\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22458 Vibsantin W**

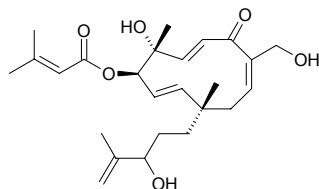
$C_{25}H_{38}O_7$ (450.58). Colorless amorphous solid, $[\alpha]_D^{25} = +16^\circ$ ($c = 0.3$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, P_{388} , $ED_{50} = 2.18\mu g/mL$; A549, $ED_{50} = 5.6\mu g/mL$; HT29, $ED_{50} = 8.15\mu g/mL$). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22459 Vibsanol A**

$C_{25}H_{36}O_6$ (432.56). Colorless oil, $[\alpha]_D^{26} = +5.6^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, gastric tumour NUGC, $10\mu mol/L$, $InRt = 85\%$; control Antinomycin D, $10\mu mol/L$, $InRt = (98-100)\%$). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0055%). Ref: 4638.

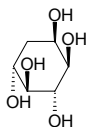
**22460 Vibsanol B**

$C_{25}H_{36}O_6$ (432.56). Colorless oil, $[\alpha]_D^{26} = +17.4^\circ$ ($c = 0.05$, $CHCl_3$). Pharm: Cytotoxic inactive (*in vitro*, gastric tumour NUGC, $10\mu mol/L$, $InRt < 50\%$; control Antinomycin D, $10\mu mol/L$, $InRt = (98-100)\%$). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0036%). Ref: 4638.

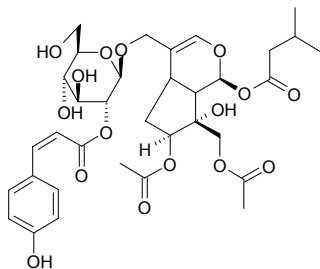


22461 Viburnitol

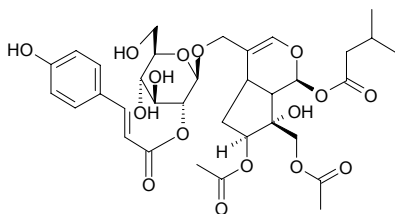
$C_6H_{12}O_5$ (164.16). mp 180~181°C. Source: YANG SHI CAO *Achillea millefolium*. Ref: 6.

**22462 Viburtinoside B**

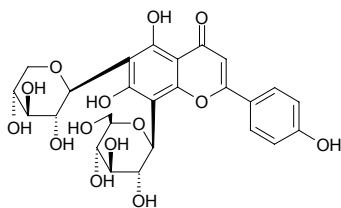
$C_{34}H_{44}O_{16}$ (708.72). Creamy-white amorphous powder, $[\alpha]_D = -61^\circ$ ($c = 0.23$, MeOH). Source: *Viburnum tinus* (leaf). Ref: 5339.

**22463 Viburtioside A**

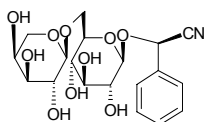
$C_{34}H_{44}O_{16}$ (708.72). Creamy-white amorphous powder, $[\alpha]_D = -59^\circ$ ($c = 0.26$, MeOH). Source: *Viburnum tinus* (leaf). Ref: 5339.

**22464 Vicenin 1**

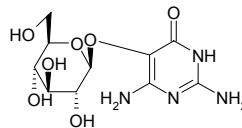
6-C-Xylopyranosyl-8-C-glucopyranosylapigenin $C_{26}H_{28}O_{14}$ (564.50). Source: HU LU BA *Trigonella foenum-graecum*, YA MA *Linum usitatissimum*. Ref: 660.

**22465 Vicianin**

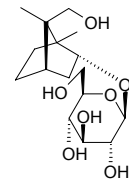
[155-57-7] $C_{19}H_{25}NO_{10}$ (427.41). mp 147~148°C. Pharm: Toxin. Source: DA CHAO CAI *Vicia sativa*, FU LANG HUA *Gerbera jamesonii*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], ZHAI YE YE WAN DOU *Vicia angustifolia*, *Davallia* sp. Ref: 6, 658, 660.

**22466 Vicine**

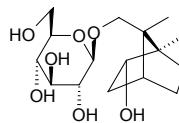
2,6-Diamino-4,5-dihydroxy pyrimidine-5- β -glucoside. $C_{10}H_{16}N_4O_7$ (304.26). mp 243~244°C (dec). Pharm: Antiarrhythmic; reduces G6PD in hematis. Source: CAN DOU *Vicia faba*, DA CHAO CAI *Vicia sativa*, KU GUA *Momordica charantia*, MA CAN DOU *Vicia faba* var. *equina*, WAN DOU *Pisum sativum*. Ref: 6, 176, 658.

**22467 (1S,2R,4S,7R)-Vicodiol 2-O- β -D-glucopyranoside**

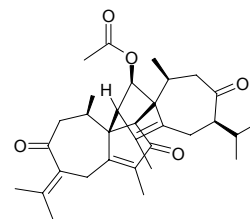
$C_{16}H_{28}O_7$ (332.40). Amorphous powder, $[\alpha]_D^{22} = -48^\circ$ ($c = 1.7$, MeOH). Source: SHE XIANG CAO *Thymus vulgaris* (leaf). Ref: 3895.

**22468 (1R,2S,4R,7S)-Vicodiol 9-O- β -D-glucopyranoside**

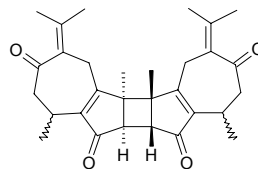
$C_{16}H_{28}O_7$ (332.40). Colorless needles (MeOH), mp 173~174°C, $[\alpha]_D^{23} = -16^\circ$ ($c = 4.4$, MeOH). Source: SUO SHA MI *Amomum xanthioides* (seed). Ref: 4365.

**22469 Vielanin A**

$C_{32}H_{42}O_5$ (506.69). Crystals (MeOH), mp 190~191°C, $[\alpha]_D^{27} = -8^\circ$ ($c = 0.5$, $CHCl_3$). Source: MU BAN SHU *Xylopiya vielana* (leaf). Ref: 5131.

**22470 Vielanin B**

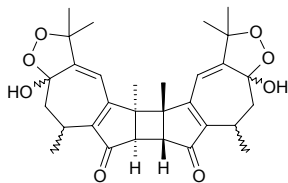
$C_{30}H_{36}O_4$ (460.62). mp 210~212°C (EtOAc). Source: MU BAN SHU *Xylopiya vielana* (leaf). Ref: 5131.



22471 Vielanin C

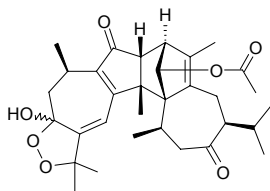
$C_{30}H_{36}O_8$ (524.62). mp 108~110°C (acetone), $[\alpha]_D^{26} = -120^\circ$ ($c = 0.5$, $CHCl_3$).

Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 5131.

**22472 Vielanin D**

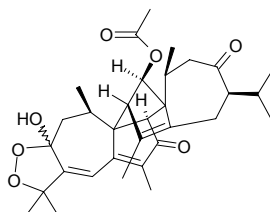
$C_{32}H_{42}O_7$ (538.69). Amorphous, mp 213~215°C (*n*-hexane-EtOAc), $[\alpha]_D^{25} =$

-45° ($c = 0.5$, $CHCl_3$). Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 3458.

**22473 Vielanin E**

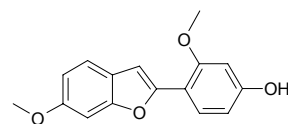
$C_{32}H_{42}O_7$ (538.69). Amorphous, mp 220~222°C (MeOH), $[\alpha]_D^{25} = +31^\circ$ ($c =$

0.5 , $CHCl_3$). Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 3458.

**22474 Vignafuran**

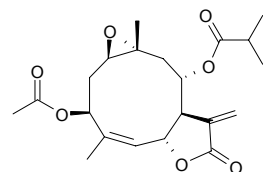
[57800-41-6] $C_{16}H_{14}O_4$ (270.29). Pharm: Antifungal. Source: JIANG DOU

Vigna unguiculata. Ref: 658, 1521.

**22475 Vigiuestin**

Vigiuestenin [69440-10-4] $C_{21}H_{28}O_7$ (392.46). Pharm: Antineoplastic;

cytotoxic. Source: *Viguiera stenoloba*. Ref: 658.

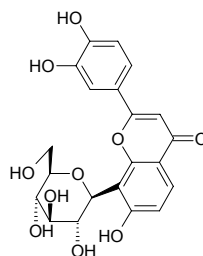
**22476 Vijayoside**

8-(*C*- β -*D*-Glucopyranosyl)-7,3',4'-trihydroxyflavone $C_{21}H_{22}O_{10}$ (432.29).

Yellow needles ($H_2O:MeOH=19:1$), mp 202~204°C, $[\alpha]_D^{19} = +25.6^\circ$ ($c = 0.5$,

MeOH). Source: NANG ZHUANG ZI TAN *Pterocarpus marsupium*

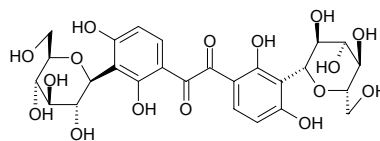
(heartwood). Ref: 3789.

**22477 Vijayosine**

1,2-Bis(2,4-dihydroxy,3-*C*-glucopyranosyl)-ethanedione $C_{26}H_{30}O_{16}$ (598.52).

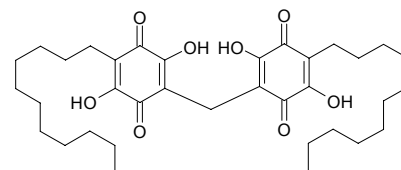
Pale yellow amorphous powder, $[\alpha]_D^{29} = +32.14^\circ$ ($c = 0.056$, DMSO). Source:

NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). Ref: 3789.

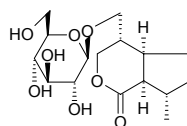
**22478 Vilangin**

[4370-68-7] $C_{35}H_{52}O_8$ (600.80). mp 264~265°C (dec). Source: XIAN SUAN

QIANG *Embelia ribes*. Ref: 6.

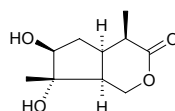
**22479 Villoside**

[50276-99-8] $C_{16}H_{26}O_8$ (346.38). Source: BAI JIANG *Patrinia villosa*. Ref: 2.

**22480 Villosol**

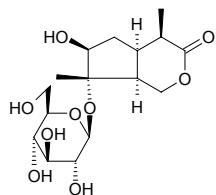
[99933-29-6] $C_{10}H_{16}O_4$ (200.24). White crystals, mp 143~145°C, $[\alpha]_D^{18} =$

$+170.73^\circ$ ($c = 0.5$, MOH). Source: BAI JIANG *Patrinia villosa*. Ref: 34.

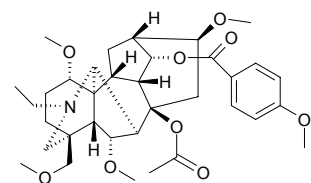


22481 Villosolside

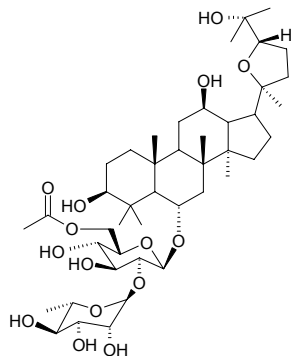
[99933-30-9] C₁₆H₂₆O₉ (362.38). White crystals, mp 228~230°C, [α]_D³⁵ = +93.37° (c = 0.5, H₂O). Source: BAI JIANG *Patrinia villosa*. Ref: 36.

**22482 Vilmorriamine C**

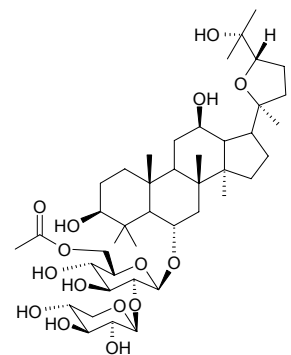
Foresaconitine [73870-35-6] C₃₅H₄₉NO₉ (627.78). Crystals (Me₂CO-MeOH), mp 153~154°C, [α]_D²⁰ = +30.5° (CHCl₃). Source: DIAN XI WU TOU *Aconitum bulleyanum*, FU ZI *Aconitum carmichaeli* (tuber), LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*]. Ref: 618, 1521, 4373.

**22483 Vina-ginsenoside R₁**

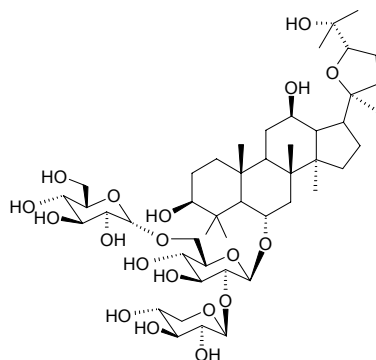
C₄₄H₇₄O₁₅ (843.07). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.008%dw). Ref: 4610.

**22484 Vina-ginsenoside R₂**

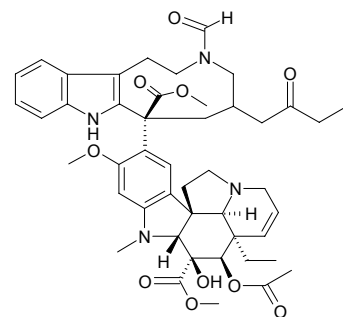
C₄₃H₇₂O₁₅ (829.94). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.11%dw). Ref: 4610.

**22485 Vina-ginsenoside R₆**

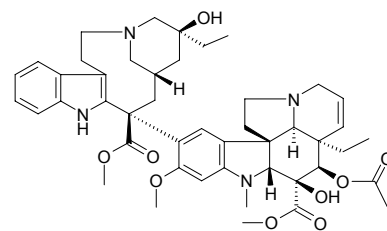
C₄₇H₈₀O₁₉ (949.15). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0058%dw). Ref: 4610.

**22486 Vinamidine**

[58511-83-4] C₄₆H₅₆N₄O₁₀ (824.98). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2, 1521.

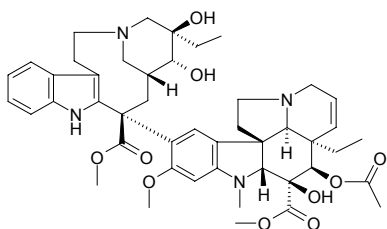
**22487 Vinblastine**

Vincalculoblastine [865-21-4] C₄₆H₅₈N₄O₉ (811.00). acicular crystals (MeOH), mp 211~216°C, [α]_D²⁶ = +42° (CHCl₃), soluble in ethanol, chloroform, acetic ether, acetone, insoluble in water.^[5507] Pharm: Inhibits mitosis (especially in formation of spindle fibre); used in treatment of Hodgkin's disease, chorion cancer, lymphatic sarcoma (sulfate); used in treatment of rheumatic arthritis; LD₅₀ (mus, iv, sulfate) = 9.5mg/kg. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*] (whole herb: content = 0.0383%^[5508]; isolated from the plant in 1958)^[5507]. Ref: 5, 658, 5507, 5508.

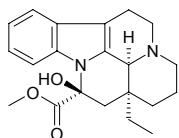


22488 Vincadioline

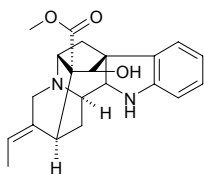
15 α -Hydroxyvincaleukoblastine [56897-74-6] C₄₆H₅₈N₄O₁₀ (827.00). mp 218~221°C. **Pharm:** Antimitotic. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 5, 658.

**22489 Vincamine**

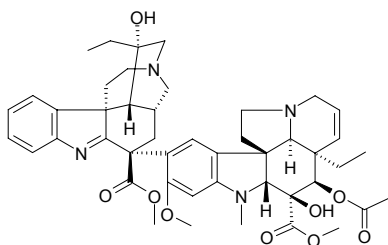
Minorine [1617-90-9] C₂₁H₂₆N₂O₃ (354.45). mp 232~233°C. **Pharm:** Antihypertensive (rat, 0.8mg/kg, arterial pressure lowered by 30%); muscle relaxant; vasodilator (rat, iv, 2mg/kg); LD₅₀ (mus, iv) = 75mg/kg. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], MAN CHANG CHUN HUA *Vinca minor*. **Ref:** 4, 658.

**22490 Vincarin**

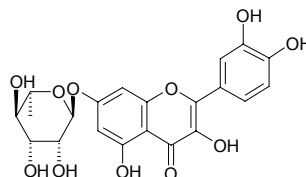
[21641-60-1] C₂₁H₂₄N₂O₃ (352.44). mp 263~264°C. **Pharm:** Antiarrhythmic (rat, induced by aconitine, 5~10mg/kg); CNS depressant (mus, ip, 10mg/kg); antihypertensive (anesthetic dog, 0.1~3.0mg/kg). **Source:** DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 4, 658.

**22491 Vincathicine**

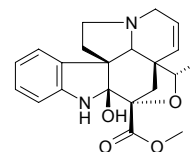
[57665-10-8] C₄₆H₅₆N₄O₉ (808.98). No free alkali crystals. Sulfate, tiny lamellar crystals (ethanol), mp > 320°C (dec). **Pharm:** Antimitotic; dissolves oncocytes. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*. **Ref:** 661.

**22492 Vincetoxicose B**

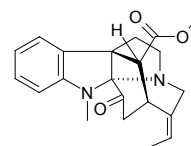
Quercetin-7-O-rhamnoside C₂₁H₂₀O₁₁ (448.37). **Pharm:** Anti-hepatitis. **Source:** BAI CI *Nitraria tangutorum*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], DI ER CAO *Hypericum japonicum*, GUI ZHU XIANG *Cheiranthus cheiri*, HUA BEI BAI QIAN *Cynanchum hancockianum*, LI ZI *Prunus salicina*, YAO YONG BAI QIAN *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*]. **Ref:** 658, 660, 1417, 4008, 4009, 4010, 4011.

**22493 Vincoline**

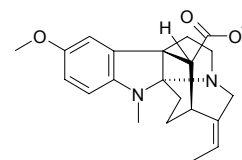
[11034-66-5] C₂₁H₂₄N₂O₄ (368.44). mp 230~233°C. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DAN MU *Nauclea officinalis*. **Ref:** 2, 118, 1521.

**22494 Vincoridine**

C₂₁H₂₄N₂O₃ (352.44). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). **Ref:** 3020.

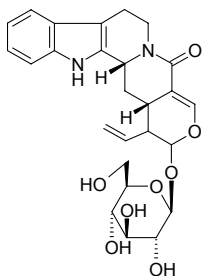
**22495 Vincorine**

C₂₂H₂₈N₂O₃ (368.48). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0004%), MAN CHANG CHUN HUA *Vinca minor*. **Ref:** 1521, 3020.

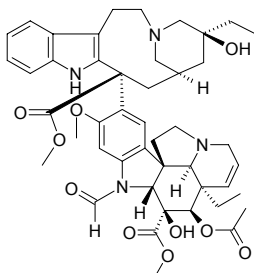


22496 Vincosamide

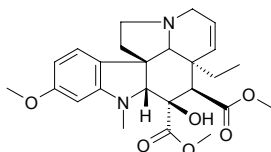
Vincoside lactam [23141-27-7] $C_{26}H_{30}N_2O_8$ (498.54). Yellowish amorphous solid, mp 194~196°C (MeOH), $[\alpha]_D^{22} = -48.6^\circ$ ($c = 0.15$, MeOH); mp 200~203°C, $[\alpha]_D = -54.9^\circ$ ($c = 0.24$, MeOH), mp 210°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark)^[3074], GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00089%_{dw})^[4723], XI SHU *Camptotheca acuminata*. **Ref:** 2, 2178, 3074, 4097, 4723.

**22497 Vincristine**

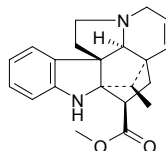
Lauroristine; VCR [57-22-7] $C_{46}H_{56}N_4O_{10}$ (824.98). mp 218~220°C (dec). **Pharm:** Antineoplastic; cytotoxic (SMMC-7721, $IC_{50} = (30.35 \pm 2.23) \mu\text{g/mL}$; HO-8910, $IC_{50} = (20.74 \pm 1.91) \mu\text{g/mL}$ ^[4736], cytotoxic (*in vitro*, BGC823 hmn tumor cells, $IC_{50} = 0.066 \mu\text{g/mL}$)^[4760]; cytotoxic (SMMC-7721, $IC_{50} = (63.2 \pm 1.8) \mu\text{g/mL}$; B16, $IC_{50} = (70.7 \pm 2.8) \mu\text{g/mL}$; HeLa, $IC_{50} = (67.2 \pm 2.2) \mu\text{g/mL}$)^[5219, 5244]; antithrombotic (mus, sulfate); LD₅₀ (mus, ip) = 5.2mg/kg. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (whole herb: content = 0.0054%^[5508]). **Ref:** 4, 658, 1521, 4736, 4760, 5219, 5244, 5508.

**22498 Vindoline**

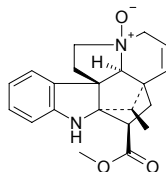
[2182-14-1] $C_{25}H_{32}N_2O_6$ (456.54). mp 154~155°C. **Pharm:** Diuretic (animal model); hypoglycemic (animal model); antihypercholesterolemic (mus, ip); inhibits pathogenic bacteria. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (whole herb: content = 0.244%^[5508]), CHANG YE CHANG CHUN HUA *Catharanthus longifolius*, LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*, XI XIAO CHANG CHUN HUA *Catharanthus pusillus*. **Ref:** 2, 658, 5508.

**22499 Vindolinine**

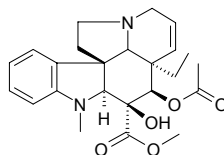
[5980-02-9] $C_{21}H_{24}N_2O_2$ (336.44). mp 214~218°C. **Pharm:** Antibacterial (against 40 different bacteria); diuretic (animal model); hypoglycemic (animal model). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG YE CHANG CHUN HUA *Catharanthus longifolius*, LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*, NAN SHE TENG ZHUANG SHAN CHENG *Melodinus celastroides*. **Ref:** 2, 658, 1521.

**22500 Vindolinine N-oxide**

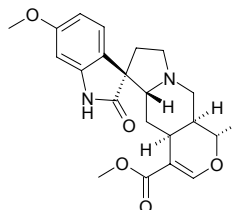
$C_{21}H_{24}N_2O_3$ (352.44). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2.

**22501 Vindorosine**

Vindolidine [5231-60-7] $C_{24}H_{30}N_2O_5$ (426.52). mp 244~250°C (dec). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 1521.

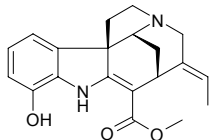
**22502 Vineridine**

Isocaboxine A [3489-06-3] $C_{22}H_{26}N_2O_5$ (398.46). mp 179~180°C (acetone), $[\alpha]_D^{22} = 22.7^\circ$ ($c = 2.32$, pyridine), 42.4 ($c = 1.7$, methanol), 40.5 ($c = 2.395$, chloroform). **Pharm:** CNS depressant (mus, *in vivo*, $\geq 10\text{mg/kg}$ chlorine, ip, potentiates hypnotic effect of pentobarbital); antihypertensive (anesthetic cat, 1~20mg/kg, iv, arterial pressure lowered by 1.33~12.00kPa); respiratory stimulant; uterine stimulant (rbt, *in vivo* and *in vitro*, 1mg/kg iv); LD₅₀ = 125mg/kg. **Source:** CU SHENG KA BU MU *Cabucala fasciculata*, ZHI LI CHANG CHUN HUA *Vinca erecta*. **Ref:** 658, 660.

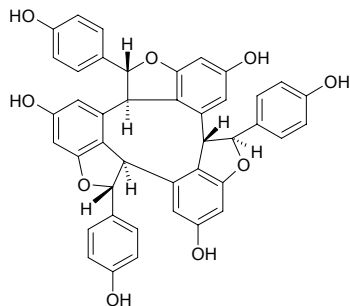


22503 Vinervine

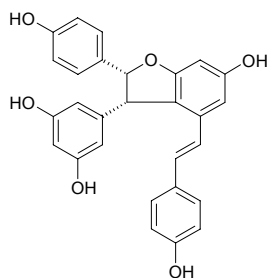
[1963-86-6] $C_{20}H_{22}N_2O_3$ (388.41). mp 154~155°C (dec), $[\alpha]_D^{32} = -505^\circ$ (methanol), hydrochloride mp 199~200°C, $[\alpha]_D^{32} = -511.4^\circ$. **Pharm:** Antihypertensive (chloride, anesthetic cat by urethan and anesthetic dog by urethan-morphine); uterine stimulant (rbt, *in vitro*). **Source:** ZHI LI CHANG CHUN HUA *Vinca erecta*. **Ref:** 658.

**22504 α -Viniferin**

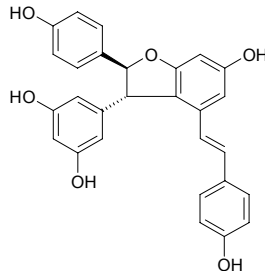
$C_{42}H_{30}O_9$ (678.70). **Pharm:** PKC inhibitor ($IC_{50} = 62.5\mu\text{mol/L}$); anti-inflammatory (mouse, carrageenin-induced paw edema, dose > 30mg/kg orl or > 3mg/kg iv)^[5432]; anti-inflammatory (COX-2 inhibitor, $IC_{50} = 4.9\mu\text{mol/L}$; very weak COX-1 inhibitor, $100\mu\text{mol/L}$, InRt = (55.2±2.1)%, control, InRt = 100%)^[5432]; inhibits synthesis of COX-2 transcript (LPS-activated murine macrophages Raw264.7, 3~10 $\mu\text{mol/L}$)^[5432]; NO production inhibitor (LPS-activated Raw264.7 cells treated simultaneously by α -viniferin and LPS, $IC_{50} = 2.7\mu\text{mol/L}$, but did not inhibit the NO production when α -viniferin was treated at 12h after LPS stimulation)^[5432]; inhibits synthesis of iNOS transcript ($IC_{50} = 4.7\mu\text{mol/L}$)^[5432]. **Source:** PU⁽²⁾ TAO *Vitis vinifera*, JIN JI ER *Caragana chamlagu*, XIA YE JIN JI ER *Caragana stenophylla* (root). **Ref:** 2234, 2557, 5432.

**22505 ϵ -Viniferin**

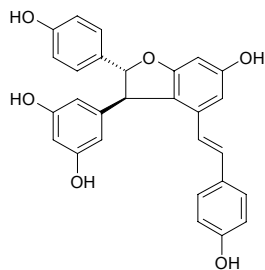
7*a*,8*a*-*cis*- ϵ -Viniferin [62218-08-0] $C_{28}H_{22}O_6$ (454.48). **Pharm:** Antifungal (*Botrytis cinerea*, *Cladosporium cucumerinum* and *Plasmopara viticola*); antioxidant (super oxide scavenger, $IC_{50} = 20\mu\text{mol/L}$; lipid peroxide inhibitory activity, $IC_{50} = 33\mu\text{mol/L}$)^[4306]. **Source:** PU⁽²⁾ TAO *Vitis vinifera*, QING MEI *Vatica rassak* (stem cortex), SHAN PU TAO *Vitis amurensis*. **Ref:** 658, 1521, 2233, 2234, 3950, 4306.

**22506 (+)- ϵ -Viniferin**

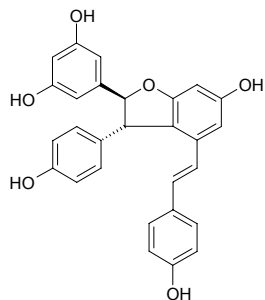
$C_{28}H_{22}O_6$ (454.48). **Source:** SHAN PU TAO *Vitis amurensis*. **Ref:** 2233, 2234.

**22507 (-)- ϵ -Viniferin**

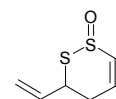
$C_{28}H_{22}O_6$ (454.48). **Source:** PU⁽²⁾ TAO *Vitis vinifera*. **Ref:** 2233, 2234.

**22508 ϵ -iso-Viniferin**

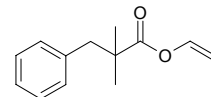
$C_{28}H_{22}O_6$ (454.48). **Source:** SHAN PU TAO *Vitis amurensis*. **Ref:** 2233, 2234.

**22509 3-Vinyl-3,4-dihydro-1,2-dithiin-1-oxide**

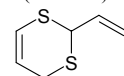
$C_6H_8S_2O$ (160.26). Yellowish oil liquid. **Source:** DA SUAN *Allium sativum*. **Ref:** 2186.

**22510 Vinyl-2,2-dimethyl-3-phenyl-propionate**

$C_{13}H_{16}O_2$ (204.27). **Source:** AI YE *Artemisia argyi*. **Ref:** 660.

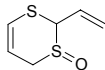
**22511 2-Vinyl-1,3-dithia-4-cyclohexene**

[80028-57-5] $C_6H_8S_2$ (144.26). **Pharm:** Platelet aggregation inhibitor (derivants-induced); antithrombotic; 5-lipoxygenase inhibitor (50 $\mu\text{mol/L}$, InRt = (20.4±8.8)%). **Source:** DA SUAN *Allium sativum*. **Ref:** 2, 1827, 1828.

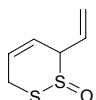
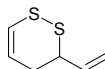
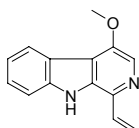
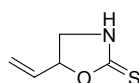
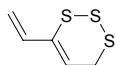
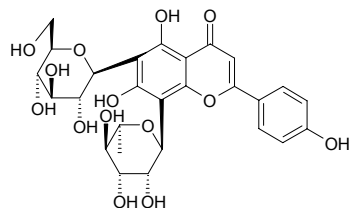
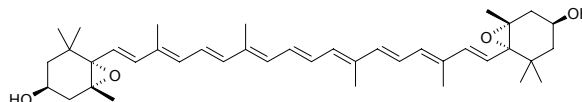
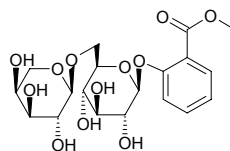
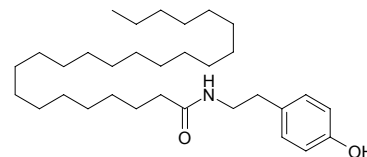
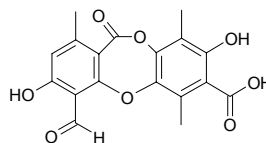


22512 2-Vinyl-1,3-dithia-4-cyclohexene-3-oxideC₆H₈OS₂ (160.26). Colorless oil liquid. Source: DA SUAN *Allium sativum*.

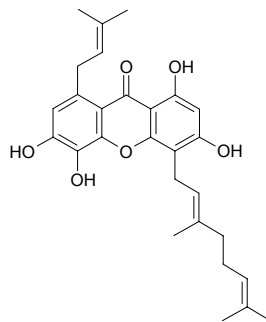
Ref: 2118.

**22513 3-Vinyl-1,2-dithia-4-cyclohexene**C₆H₈S₂ (144.26). Source: DA SUAN *Allium sativum*. Ref: 2, 660.**22514 3-Vinyl-1,2-dithia-4-cyclohexene-2-oxide**C₆H₈OS₂ (160.26). Colorless oil liquid. Source: DA SUAN *Allium sativum*.

Ref: 2118.

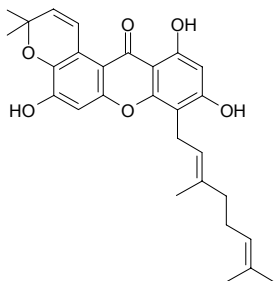
**22515 3-Vinyl-1,2-dithia-5-cyclohexene**C₆H₈S₂ (144.26). Source: DA SUAN *Allium sativum*. Ref: 2, 660.**22516 1-Vinyl-4-methoxy-β-carboline**C₁₄H₁₂N₂O (224.26). Source: KU SHU PI *Picrasma quassioides* [Syn.*Picrasma ailanthoides*]. Ref: 12.**22517 L-5-Vinyl-2-thiooxazolidone**[500-12-9] C₅H₇NOS (129.18). Source: GAN LAN *Brassica oleracea* var.*capitata*. Ref: 6.**22518 4-Vinyl-1,2,3-trithia-4-cyclohexene**C₅H₆S₃ (162.30). Source: DA SUAN *Allium sativum*. Ref: 2.**22519 Violanthin**C₂₇H₃₀O₁₄ (578.53). Source: HUANG GAN CAO *Glycyrrhiza kansuensis*,SAN SE JIN *Viola tricolor*, *Glycyrrhiza* sp. Ref: 660, 2431.**22520 Violaxanthin**[126-29-4] C₄₀H₅₆O₄ (600.89). mp 208°C. Pharm: Yellow pigment. Source:DAO CAO *Oryza sativa*, FAN MU GUA *Carica papaya*, JIN ZHAN JU *Calendula officinalis*, JING MI *Oryza sativa*, KONG QUE CAO *Tagetes patula*, LI MENG *Citrus limonia*, LI MENG YE *Citrus limonia*, MANG GUO *Mangifera indica*, NING MENG *Citrus limon*, SUAN MO *Rumex acetosa*, SUAN MO YE *Rumex acetosa*, SUAN SHUI CAO *Potamogeton perfoliatus*, YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHU QIAN MA *Urtica dioica*. Ref: 6, 658, 660.**22521 Violutoside**C₁₉H₂₆O₁₂ (446.41). mp 173°C (dec). Source: SAN SE JIN *Viola tricolor*. Ref: 6.**22522 Violydoenamide**Tetracosanoyl-p-hydroxy phenethylamine C₃₂H₅₇NO₂ (487.82). Source: ZIHUA DI DING *Viola yedoensis*. Ref: 660.**22523 Virensic acid**[68-14-4] C₁₈H₁₄O₈ (358.31). mp 245–247°C. Source: JIN SI DAI *Alectoria**vivens*. Ref: 6.**22524 Virgataxanthone A**

1,3,5,6-Tetrahydroxy-4-[(2E)-3,7-dimethylocta-2,6-dienyl]-8-(3-methylbut-2-

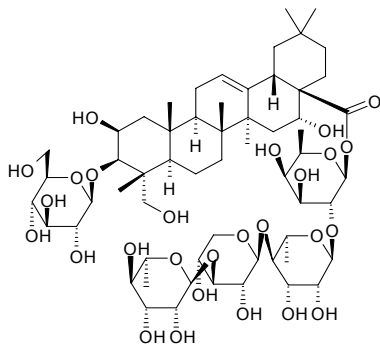
enyl)xanthone C₂₈H₃₂O₆ (464.56). Orange amorphous. Pharm: Antioxidant(DPPH scavenger, EC₅₀ = 0.240μg/mL, control BHA, EC₅₀ = 0.136μg/mL,Vitamin E, EC₅₀ = 0.138μg/mL). Source: DUO ZHI ZHI TENG HUANG*Garcinia virgata* (stem cortex). Ref: 3874.

22525 Virgataxanthone B

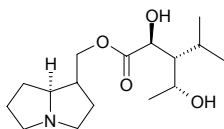
1,3,6-Trihydroxydimethylpyrano-4-[(2*E*)-3,7-dimethylocta-2,6-dienyl]-xanthone C₂₈H₃₀O₆ (462.55). Yellow amorphous. Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**22526 Virgaureasaponin 1**

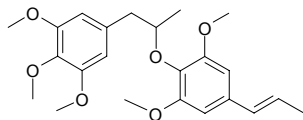
C₅₉H₉₆O₂₇ (1237.41). Pharm: Antifungal (microzyme, such as *Candida albicans*). Source: MAO GUO YI ZHI HUANG HUA *Solidago virgaurea*, CHU JU *Bellis perennis*. Ref: 658.

**22527 Viridiflorine**

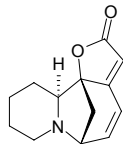
[551-57-5] C₁₆H₂₉NO₄ (299.41). mp 102.5~103.5°C. Source: YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 6, 1521.

**22528 (±)-Virolongin**

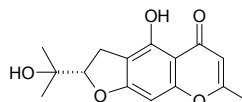
Virolongin [94608-22-7] C₂₃H₃₀O₆ (402.49). Colorless oil, [α]_D²⁸ = +16.0° (c = 0.25, chloroform). Pharm: Platelet aggregation inhibitor (PAF trial, 25 μmol/L InRt = 72%, IC₅₀ = 14.0 μmol/L); PAF receptor antagonist (³H] PAF receptor combination trial, IC₅₀ = 7.0 μmol/L). Source: ZHANG YE HU JIAO *Piper polysyphorum*. Ref: 900.

**22529 Virosecurinine**

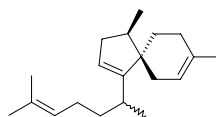
C₁₃H₁₅NO₂ (217.27). Yellow needles (EtOH), mp 140~142°C, [α]_D²⁰ = +1040° (c = 0.1, CHCl₃). Source: YI YE QIU *Securinega suffruticosa* (branch leaf). Ref: 4818.

**22530 Visamminol**

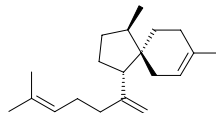
[492-52-4] C₁₅H₁₆O₅ (276.28). Colorless acicular crystals (petroleum ether-acetone), mp 160°C, [α]_D = +92° (c = 0.2, chloroform). Pharm: Antispasmodic (male gpg, jejunum, caused by 0.1 μg/mL acetylcholine, 1 μg/mL histamine chloride, or BaCl₂, ED₅₀ = 50 μg/mL). Source: CHI A MI *Ammi visnaga*, RI BEN DANG GUI *Angelica japonica*, XING AN SHENG MA *Cimicifuga dahurica*. Ref: 658, 660, 5501.

**22531 Viscida-3,9,14-triene**

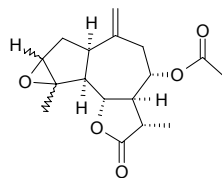
(1-(1,5-Dimethylhex-4-enyl)-4,8-dimethylspiro[4.5]deca-1,7-diene) C₂₀H₃₂ (272.48). Colorless oil. Source: NING BIAN E TAI *Radula perrottetii* (essential oil). Ref: 5272.

**22532 Viscida-3,11(18),14-triene**

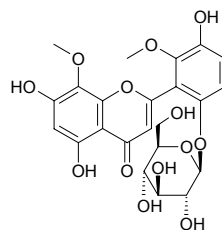
(1,8-Dimethyl-4-(5-methyl-1-methylenhex-4-enyl)spiro[4.5]dec-7-ene) C₂₀H₃₂ (272.48). Colorless oil. Source: NING BIAN E TAI *Radula perrottetii* (essential oil). Ref: 5272.

**22533 Viscidulin B**

[35144-10-6] C₁₇H₂₂O₅ (306.36). Pharm: Plant growth regulator. Source: NIAN HAO *Artemisia cana* ssp. *viscidula*. Ref: 658.

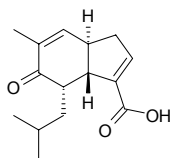
**22534 Viscidulin III-6'-O-β-D-glucopyranoside**

C₂₃H₂₄O₁₃ (508.44). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 660.

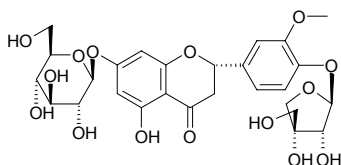


22535 Viscosmic acid

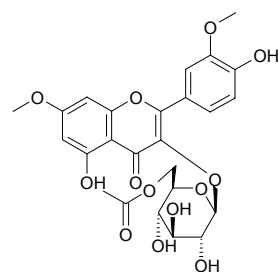
4-Isobutyl-6-methyl-5-oxo-3a,4,5,7a-tetrahydro-1*H*-inden-13-oic acid
 $C_{15}H_{20}O_3$ (248.32). Amorphous. Source: NIAN MAO LIAO *Polygonum viscosum* (whole herbs). Ref: 3955.

**22536 Viscumneoside I**

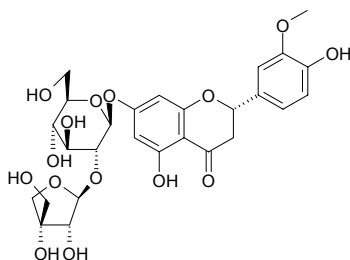
$C_{27}H_{32}O_{15}$ (596.55). Source: FENG XIANG JI SHENG *Viscum articulatum*,
 HU JI SHENG *Viscum coloratum*. Ref: 660, 1521.

**22537 Viscumneoside II**

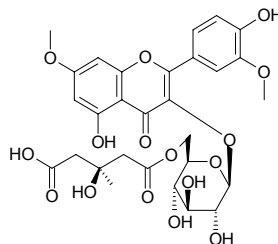
[108886-00-6] $C_{25}H_{26}O_{13}$ (534.48). Source: HU JI SHENG *Viscum coloratum*.
Ref: 660, 1521.

**22538 Viscumneoside III**

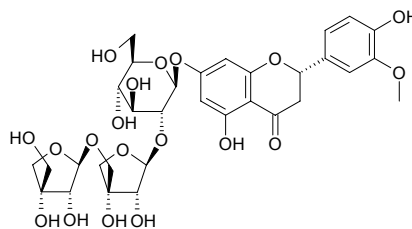
Homoeriodictyol-7-*O*- β -*D*-apiosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside [118985-27-6]
 $C_{27}H_{32}O_{15}$ (596.55). White amorphous powder, mp 208–210°C, $[\alpha]_D^{18} =$
 -67.3° ($c = 0.42$, methanol). Source: HU JI SHENG *Viscum coloratum*
 (stem-leaf: content scope on different hosts = 0.05%–0.74%, mean content =
 0.30%^[5508]). Ref: 111, 5508.

**22539 Viscumneoside IV**

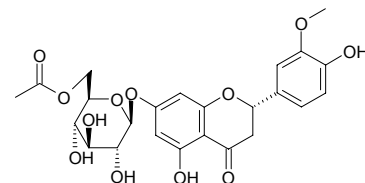
Rhamnazin-*O*- β -*D*-(6''- β -hydroxy- β -methylglutaryl) glucoside [119725-29-0]
 $C_{29}H_{32}O_{16}$ (637.57). Yellow acicular crystals, mp 195–197°C, $[\alpha]_D^{20} = +14.64^\circ$
 ($c = 0.25$, methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 113.

**22540 Viscumneoside V**

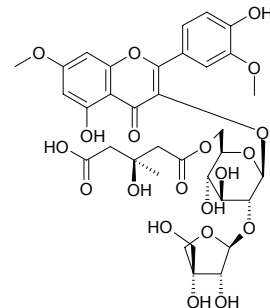
Homoeriodictyol-7-*O*- β -*D*-apiosyl-(1 \rightarrow 5)- β -*D*-apiosyl-(1 \rightarrow 2)- β -*D*-glucopyra-
 noside [119016-92-1] $C_{32}H_{40}O_{19}$ (728.66). White amorphous powder, mp
 136–139°C, $[\alpha]_D^{20} = -127.0^\circ$ ($c = 0.42$, methanol). Source: LENG ZHI HU JI
 SHENG *Viscum angulatum* (whole herb: yield = 0.0050%^[4626]), HU JI
 SHENG *Viscum coloratum* (stem-leaf: content scope on different hosts =
 0.00%–0.38%, mean content = 0.21%^[5508]). Ref: 111, 4626, 5508.

**22541 Viscumneoside VI**

Homoeriodictyol-7-*O*- β -*D*-(6''-*O*-acetyl)-glucopyranoside [118985-26-5]
 $C_{24}H_{26}O_{12}$ (506.47). White amorphous powder, mp 124–126°C, $[\alpha]_D = -78.2^\circ$
 ($c = 0.29$, methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 111.

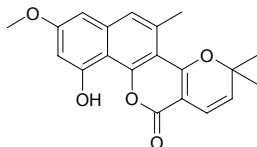
**22542 Viscumneoside VII**

Rhamnazin-3-*O*- β -*D*-apiosyl-(1 \rightarrow 2)-[6''-*O*-(3-hydroxy-3-methylglutarate)]glu-
 coside $C_{34}H_{40}O_{20}$ (768.69). Yellow ropy liquid, $[\alpha]_D^{23} = -31.0^\circ$ ($c = 0.32$,
 methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 163, 660.

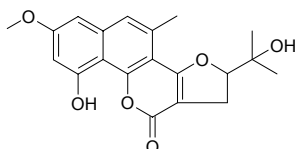


22543 Vismiaguianin A

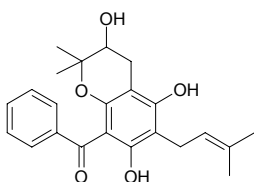
$C_{20}H_{18}O_5$ (338.36). Light yellow needles (MeOH), mp 191~192°C. **Pharm:** Cytotoxic (KB, $EC_{50} = (1.3 \pm 0.8) \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22544 Vismiaguianin B**

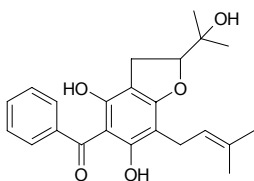
$C_{20}H_{20}O_6$ (356.38). Pale yellow powder (MeOH), mp 222~224°C, $[\alpha]_D^{22} = +18.0^\circ$ ($c = 0.05$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} > 20 \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22545 Vismiaguianone A**

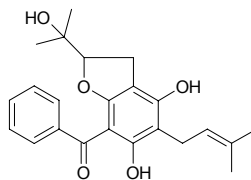
$C_{23}H_{26}O_5$ (382.46). Yellow powder (MeOH), mp 140~142°C, $[\alpha]_D^{22} = +10.9^\circ$ ($c = 0.11$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} > 20 \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22546 Vismiaguianone B**

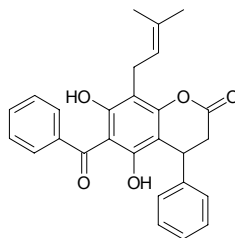
$C_{23}H_{26}O_5$ (382.46). Yellow powder (MeOH), mp 58~60°C, $[\alpha]_D^{22} = +5.0^\circ$ ($c = 0.14$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} > 20 \mu\text{g/mL}$); DNA strand-scission activity (DNA strand-scission assay, 2.5 $\mu\text{g/mL}$, (43 \pm 12)% nicked, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22547 Vismiaguianone C**

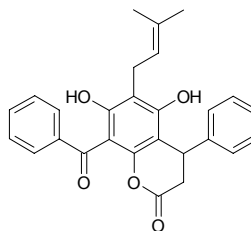
$C_{23}H_{26}O_5$ (382.46). Yellow powder (MeOH), mp 162~164°C, $[\alpha]_D^{22} = +2.7^\circ$ ($c = 0.15$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} > 20 \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22548 Vismiaguianone D**

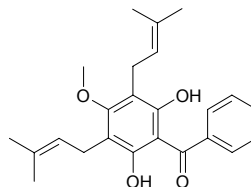
$C_{27}H_{24}O_5$ (428.49). Light yellow needles (MeOH), mp 171~172°C, $[\alpha]_D^{22} = -147.2^\circ$ ($c = 0.25$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} = (2.4 \pm 0.9) \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22549 Vismiaguianone E**

$C_{27}H_{24}O_5$ (428.49). Light yellow powder (MeOH), mp 70~72°C, $[\alpha]_D^{22} = +198.9^\circ$ ($c = 0.37$, CHCl_3). **Pharm:** Cytotoxic (KB, $EC_{50} = (3.3 \pm 1.5) \mu\text{g/mL}$); DNA strand-scission inactive (DNA strand-scission assay, control 0.025 $\mu\text{g/mL}$ Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

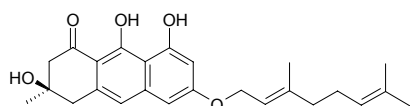
**22550 Vismiaphenone C**

2,6-Dihydroxy-4-methoxy-3,5-bis(3-methyl-2-butenyl)benzophenone
 $C_{24}H_{28}O_4$ (380.49). Yellow gum. **Source:** FEI JI TENG HUANG *Garcinia pseudoguttifera* (heartwood). **Ref:** 3911.

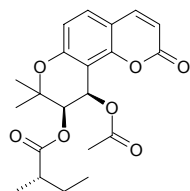


22551 Vismione D

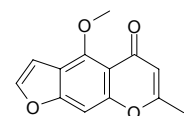
[87605-72-9] C₂₅H₃₀O₅ (410.52). [α]_D²⁵ = -98.0° (c = 0.102, MeOH). **Pharm:** Antineoplastic (hmn, adenocarcinoma in colon ascendens); antitrypanosomal (*Trypanosoma brucei*, IC₅₀ = (9.0±3.5)μg/mL, control Melarsoprol, IC₅₀ = (0.0015±0.0009)μg/mL; *Trypanosoma cruzi*, IC₅₀ = (4.6±1.6)μg/mL, control Benznidazole, IC₅₀ = (0.39±0.15)μg/mL)^[5008]; antileishmanial (*Leishmania donovani*, IC₅₀ = (0.37±0.03)μg/mL, control Miltefosine, IC₅₀ = (0.23±0.03)μg/mL)^[5008]; antimalarial (*Plasmodium falciparum*, IC₅₀ = (1.01±0.13)μg/mL, control Chloroquine, IC₅₀ = (0.055±0.02)μg/mL, control Artemisinin, IC₅₀ = (0.0011±0.0006)μg/mL)^[5008]; cytotoxic (L-6, IC₅₀ = (4.1±1.0)μg/mL, control Podophyllotoxin, IC₅₀ = 0.0075μg/mL; BST, IC₅₀ = 73.3μg/mL, control Cyclophosphamide, IC₅₀ = 16.33μg/mL)^[5008]. **Source:** DONG FANG WEI SI MU *Vismia orientalis* (stem cortex), PU SUO MU *Psorospermum febrifugum*. **Ref:** 658, 5008.

**22552 Visnadine**

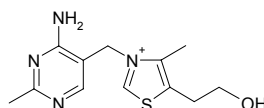
Visnamine [477-32-7] C₂₁H₂₄O₇ (388.42). **Pharm:** Antispasmodic (animal model); increases coronary flow (anesthetic dog, endarterial injection 10mg/kg, increase of blood flow 30~100% for 29 min); antihypercholesterolemic (rbt, orl, 3~5mg/(kg·d), reduces the level of cholesterol in serum); used in treatment of asthmatic bronchitis (gpg); vasodilator (animal model); LD₅₀ (mus, orl) = 2240mg/kg, (mus, sc) ≥ 370mg/kg, (mus, ip) = 500mg/kg, (rat, orl) ≥ 4000mg/kg, (rbt, iv) = 50mg/kg, (rbt, orl) ≥ 600mg/kg, (dog iv) = 20mg/kg, (dog orl) ≥ 200mg/kg. **Source:** CHI A MI *Ammi visnaga*, ZHANG GUO QIN *Phlojodicarpus sibiricus*, *Anethum* sp., *Ferula* sp., *Phlojodicarpus* sp. **Ref:** 4, 658.

**22553 Visnagin**

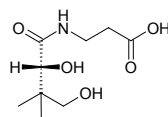
[82-57-5] C₁₃H₁₀O₄ (230.22). Acicular crystals (water or petroleum ether-acetone), mp 142~145°C. **Pharm:** Antispasmodic (gpg jejunum, spasm caused by 3mg BaCl₂, ED = 4.5mg, rat, therapy dose 9mg/kg); phototoxic (green algae and phage T4, M13); LD₅₀ (mus, orl) > 309mg/kg. **Source:** CHI A MI *Ammi visnaga*, XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 660, 661, 5501.

**22554 Vitamin B₁**

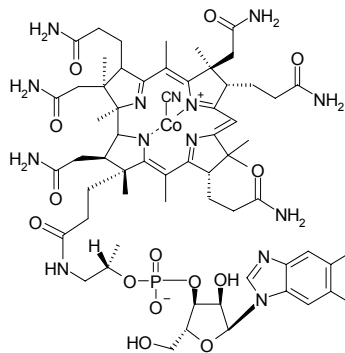
Thiamine C₁₂H₁₇N₄OS⁺ (265.36). **Pharm:** Coenzyme (in decarboxylating reaction during sugar metabolism). **Source:** CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DONG CHONG XIA CAO *Cordyceps sinensis*, GOU QI ZI *Lycium chinense*, HU LU BA *Trigonella foenum-graecum*, JI GUAN ZI *Celosia cristata* (seed), LU GEN *Phragmites communis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SANG YE *Morus alba* (leaf: content scope of 8 origins = 0.00034%~0.0019%, mean content = 0.00068%)^[5508], ZI SU *Perilla frutescens* var. *arguta*. **Ref:** 2, 661, 658, 1521, 5508.

**22555 Vitamin B₅**

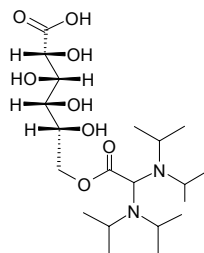
N-(2,4-Dihydroxy-3,3-dimethyl-1-oxobutyl)-β-alanine [79-83-4] C₉H₁₇NO₅ (219.24). Viscous oil, mp 271°C (dec), [α]_D²⁵ = +37.5° (H₂O), hygroscopic. **Source:** YE ZI RANG *Cocos nucifera*. **Ref:** 6, 660, 1521.

**22556 Vitamin B₁₂**

5,6-Dimethylbenzimidazolyl cyanocobamide [68-19-9] C₆₃H₈₈CoN₁₄O₁₄P (1355.40). **Pharm:** Coenzyme. **Source:** CHUN *Brasenia schreberi*, CU LIU GUO *Hippophae rhamnoides*, DANG GUI *Angelica sinensis*, DONG CHONG XIA CAO *Cordyceps sinensis*, HEI DA DOU *Glycine max*, KONG SHI CHUN *Ulva pertusa*, QUN DAI CAI *Undaria pinnatifida*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 658, 1521.

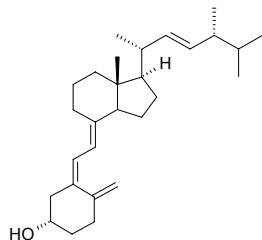
**22557 Vitamin B₁₅**

[11006-56-7] C₂₀H₄₀N₂O₈ (436.55). **Source:** MI PI KANG *Oryza sativa*. **Ref:** 6.

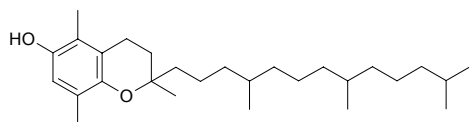


22558 Vitamin D₂

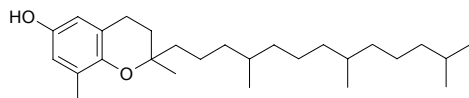
Ergocalciferol [50-14-6] C₂₈H₄₄O (396.66). White crystals, mp 115.8°C, [α]_D²⁵ = +82.6° (acetone), insoluble in water, easily soluble in EtOH, ether, chloroform.^[5507] **Pharm:** Antirachitic vitamin. **Source:** MAI JIAO *Claviceps purpurea*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*]. **Ref:** 6, 1521, 5507.

**22559 Vitamin E β**

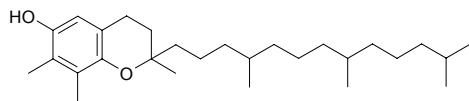
β -Tocopherol C₂₈H₄₈O₂ (416.69). **Source:** CU LIU GUO *Hippophae rhamnoides*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 6, 7. ‡Note: see compound 21413.

**22560 Vitamin E δ**

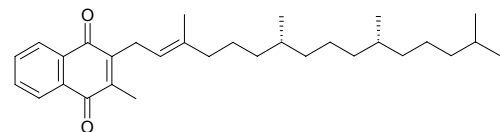
δ -Tocopherol C₂₇H₄₆O₂ (402.67). bp (+) 150°C/0.001mmHg. **Source:** CU LIU GUO *Hippophae rhamnoides*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 6. ‡Note: see compound 21412.

**22561 Vitamin E γ**

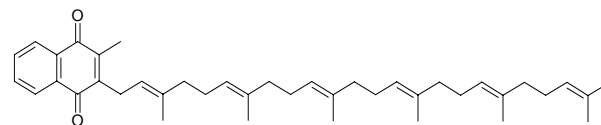
γ -Tocopherol C₂₈H₄₈O₂ (416.69). mp -3°C~+2°C. **Source:** CU LIU GUO *Hippophae rhamnoides*, LUO HUA SHENG *Arachis hypogaea*, WU WEI ZI *Schisandra chinensis*, YE ZI RANG *Cocos nucifera*. **Ref:** 2, 6. ‡Note: see compound 21414.

**22562 Vitamin K₁**

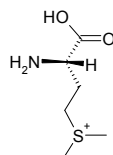
2-Methyl-3-phytyl-1,4-naphthoquinone [84-80-0] C₃₁H₄₆O₂ (450.71). mp -20°C. **Pharm:** Analgesic; antidote (diphacin poisoning); hemostatic; used in treatment of hypoprothrombinemia disease. **Source:** CU LIU GUO *Hippophae rhamnoides*. **Ref:** 2, 658.

**22563 Vitamin K₂**

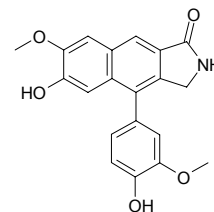
Farnopquinone [84-81-1] C₄₁H₅₆O₂ (580.90). **Source:** CU LIU GUO *Hippophae rhamnoides*. **Ref:** 2.

**22564 Vitamin U**

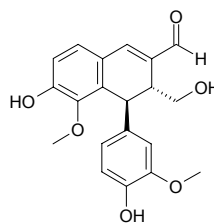
Cabagin-U; Vitas-U [1115-84-0] C₆H₁₄NO₂S⁺ (164.25). **Pharm:** Used in treatment of gastric disorders; antihistamine. **Source:** GAN LAN *Brassica oleracea* var. *capitata*. **Ref:** 6, 1521, 5507.

**22565 Vitidoamine A**

6-Hydroxy-4-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-nicotinmethyl-2-naphthoic acid- γ -lactam C₂₀H₁₇NO₅ (351.36). Amorphous powder. **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine). **Source:** HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00195%). **Ref:** 4791.

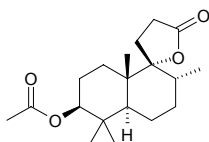
**22566 Vitidoin A**

6-Hydroxy-4 β -(4-hydroxy-3-methoxyphenyl)-3 α -hydroxymethyl-5-methoxy-3,4-dihydro-2-naphthaldehyde C₂₀H₂₀O₆ (356.38). Amorphous powder, [α]_D¹³ = -79.4° (*c* = 3.2, MeOH). **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine). **Source:** HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.015%). **Ref:** 4791.

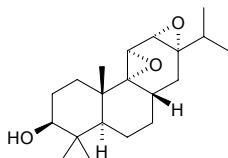


22567 Vitedoin B

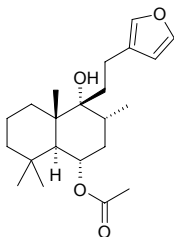
(*rel*-3*S*,5*S*,8*R*,9*R*,10*S*)-3-Acetoxy-14,15,16-trinor-13,9-labdanolide C₁₉H₃₀O₄ (322.45). Colorless needles (hexane–EtOAc), mp 95–96°C, [α]_D²⁹ = +4.7° (*c* = 0.9, CHCl₃). Source: HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00097%). Ref: 4791.

**22568 Vitetrifolin A**

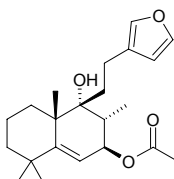
C₂₀H₃₂O₃ (320.48). Colorless acicular crystals (hexane–EtOAc), mp 174–175°C, [α]_D¹⁹ = –11.7° (*c* = 0.9, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22569 Vitetrifolin B**

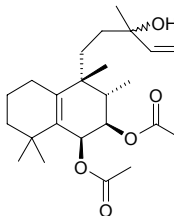
C₂₂H₃₄O₄ (362.51). Colorless syrup, [α]_D²⁹ = –56.3° (*c* = 1.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22570 Vitetrifolin C**

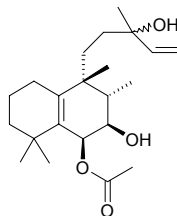
C₂₂H₃₂O₄ (360.5). Colorless syrup, [α]_D¹⁹ = 93.4° (*c* = 1, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22571 Vitetrifolin D**

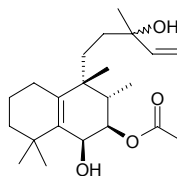
(*rel*-6*S*,7*R*,8*S*,9*R*)-6,7-Diacetoxy-5(10),14-halimadien-13-ol C₂₄H₃₈O₅ (406.57). Colorless syrup, [α]_D²⁸ = +107.8° (*c* = 0.9, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00027%dw)^[4623], MAN JING ZI *Vitex trifolia* (fruit). Ref: 4126, 4623.

**22572 Vitetrifolin E**

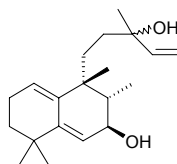
(*rel*-6*S*,7*R*,8*S*,9*R*)-6-Acetoxy-5(10),14-halimadien-7,13-diol C₂₂H₃₆O₄ (364.53). Colorless needles (hexane–acetone), mp 143–144°C, [α]_D²⁵ = +126.6° (*c* = 1.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22573 Vitetrifolin F**

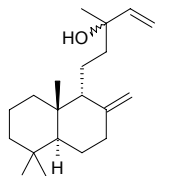
(*rel*-6*S*,7*R*,8*S*,9*R*)-7-Acetoxy-5(10),14-halimadien-6,13-diol C₂₂H₃₆O₄ (364.53). Colorless syrup, [α]_D²⁵ = +94.6° (*c* = 1.1, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22574 Vitetrifolin G**

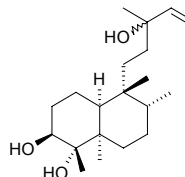
(*rel*-7*S*,8*S*,9*R*)-1(10),5,14-Halimatrien-7,13-diol C₂₀H₃₂O₂ (304.48). Colorless needles (hexane–acetone), mp 146–147°C, [α]_D²⁵ = –44.0° (*c* = 0.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22575 Vitexifolin A**

C₂₀H₃₄O (290.49). Colorless syrup, [α]_D¹⁹ = +5.2° (*c* = 0.7, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00024%dw). Ref: 4623.

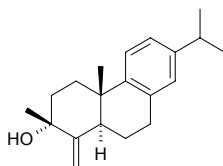
**22576 Vitexifolin B**

(*rel*-3*S*,4*S*,5*R*,8*R*,9*R*,10*S*)-14-Clerodene-3,4,13-triol C₂₀H₃₆O₃ (324.51). Colorless syrup, [α]_D²¹ = +0.4° (*c* = 2.3, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00079%dw). Ref: 4623.

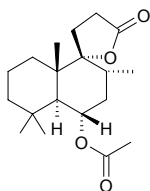


22577 Vitexifolin C

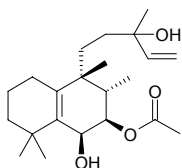
(*rel*-3*R*,5*R*,10*S*)-19(4→3)-Abeo-4(18),8,11,13-abietatetraen-3-ol C₂₀H₂₈O (284.45). Colorless syrup, $[\alpha]_D^{17} = +168.1^\circ$ ($c = 0.7$, acetone). **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00021%dw). **Ref:** 4623.

**22578 Vitexifolin D**

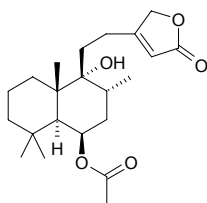
(*rel*-5*S*,6*S*,8*R*,9*R*,10*S*)-14,15,16-Trinor-13,9-labdanolide C₁₉H₃₀O₄ (322.45). Colorless needles (hexane–EtOAc), mp 100–101°C, $[\alpha]_D^{17} = -4.4^\circ$ ($c = 2.8$, acetone). **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00034%dw). **Ref:** 4623.

**22579 Vitexifolin F**

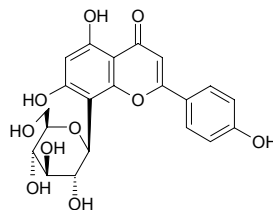
C₂₂H₃₆O₄ (364.53). Colorless oil, $[\alpha]_D = +69.1^\circ$ ($c = 0.35$, acetone), $[\alpha]_D = +94.6^\circ$ ($c = 1.1$, acetone). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 34 μmol/L)^[2550]. **Source:** MAN JING ZI *Vitex trifolia*. **Ref:** 2550.

**22580 Vitexilactone**

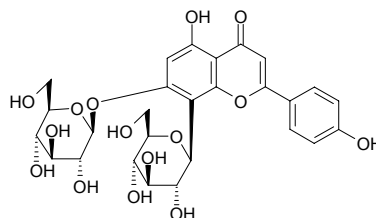
C₂₂H₃₄O₅ (378.51). Colorless needles (hexane–acetone), mp 148–149°C, mp 144–146°C, $[\alpha]_D = -11.2^\circ$ ($c = 0.85$, CHCl₃), $[\alpha]_D = -12.4^\circ$ ($c = 1.11$, CHCl₃). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 66 μmol/L)^[2550], cytotoxic (*in vitro*, PC12, GI₅₀ > 5 μg/mL, control Cisplatin, GI₅₀ = 0.111 μg/mL; HCT116, GI₅₀ > 5 μg/mL, control Cisplatin, GI₅₀ = 0.794 μg/mL)^[4623]. **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.0065%dw)^[4623], MAN JING ZI *Vitex trifolia*. **Ref:** 2550, 4623.

**22581 Vitexin**

Apigenin-8-*C*-β-*D*-glucopyranoside [3681-93-4] C₂₁H₂₀O₁₀ (432.39). mp 258–259°C, 263°C, 269–270°C (dec), $[\alpha]_D^{20} = -14.5^\circ$ ($c = 2.79$, pyridine). **Pharm:** Antineoplastic; anti-inflammatory; antispasmodic; thyroid peroxidase inhibitor; antihypertensive (weak); antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 17%, control BHT, 10 μmol/L, ScRt = 43%)^[5319]; anti-ischemia myocardial (anesthetic dog iv, 20 mg/kg, protects complete ischemia myocardial, the longest active time = 120 min, longer than propranolol); phytoalexin^[4727]; β-glucosidase inhibitor^[4727]; pectinase inhibitor^[4727]. **Source:** BIN MU JING *Vitex littoralis* (the compound was isolated from the plant in 1963)^[5505], CHANG BAN JIN LIAN HUA *Trollius macropetalus* (flower: mean content = 0.457%)^[5508], GAN SU SHAN ZHA *Crataegus kansuensis* (dried ripe fruit: content = 0.031%)^[5508], HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content of 5 origins = 0.084%)^[5508], HU LU BA *Trigonella foenum-graecum* (dried ripe seed: content scope of 18 origins = 0.0029%–0.0184%, mean content = 0.0087%)^[5508], HUANG GUA *Cucumis sativus* (leaf)^[4727], JIN LIAN HUA *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], LIAO NING SHAN ZHA *Crataegus sanguinea* (dried ripe fruit: content = 0.038%)^[5508], LV CAO *Humulus japonicus* [Syn. *Humulus scandens*], MAN JING ZI *Vitex trifolia* (dried ripe fruit: mean content of 16 origins = 0.0489%)^[5508], MAO SHAN ZHA *Crataegus maximowiczii* (dried ripe fruit: content = 0.306%)^[5508], SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts), SHAN LI HONG *Crataegus pinnatifida* var. *major* (dried ripe fruit: mean content of 4 origins = 0.031%)^[5508], SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: content scope = 0.018%–0.31%)^[5501], mean content of 3 origins = 0.068%)^[5508], SHUI WU GONG *Kyllinga brevifolia*, SUAN JIAO *Tamarindus indica*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), WU MAO SHAN ZHA *Crataegus pinnatifida* var. *psilosa* (dried ripe fruit: content = 0.042%)^[5508], XIN XI LAN MU JING *Vitex lucens*, YE GUAN MEN *Lespedeza cuneata*, YING GUO SHAN ZHA *Crataegus oxyacantha*, YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: content = 0.081%)^[5508], occurs in many plants (*Adonis* spp., *Alsophila* spp., *Larix* spp., *Lespedeza* spp., *Prosopis* spp. and other plants). **Ref:** 2, 245, 615, 658, 660, 1521, 3808, 4727, 5319, 5501, 5505, 5508.

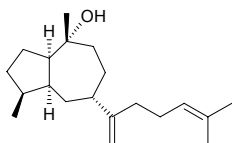
**22582 Vitexin-7-glucoside**

C₂₇H₃₀O₁₅ (594.53). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 6.

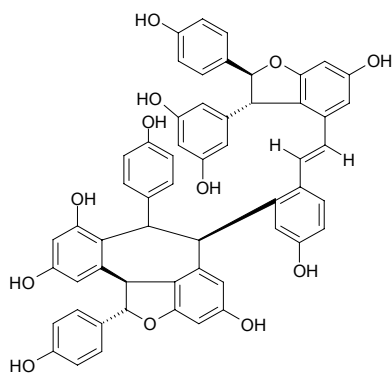


22583 (+)-(1*R,4*S**,5*S**,7*S**,10*S**)-Viticulol**

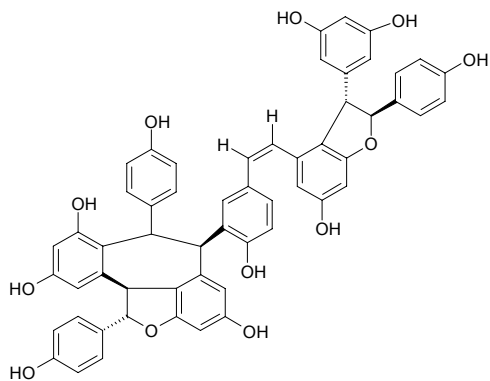
(+)-(1*S**,3*aR**,4*S**,7*S**,8*aS**)-1,4-Dimethyl-7-(5-methyl-1-methylene-hex-4-enyl)-decahydroazulen-4-ol C₂₀H₃₄O (290.49). Colorless oil. [Source](#): *Saccogyna viticulosa* (essential oil). [Ref](#): 3839.

**22584 (+)-Vitisin A**

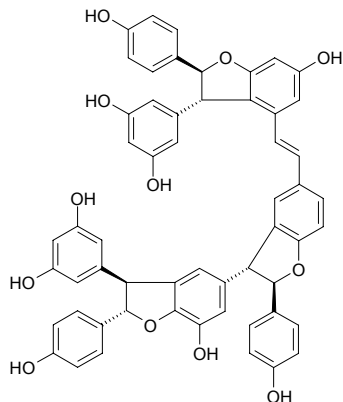
C₅₆H₄₂O₁₂ (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

**22585 (+)-cis-Vitisin A**

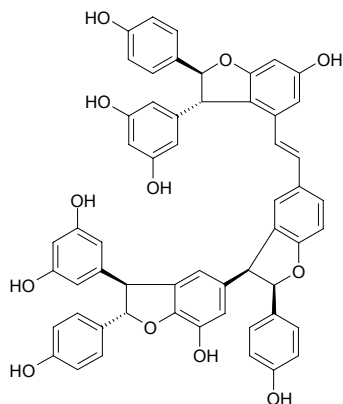
C₅₆H₄₂O₁₂ (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

**22586 Vitisin B**

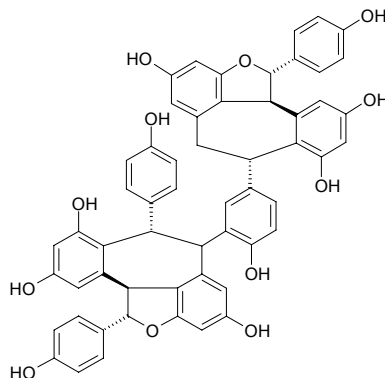
C₅₆H₄₂O₁₂ (906.95). [Pharm](#): TNF inhibitor. [Source](#): XIE PU TAO *Vitis coignetiae*. [Ref](#): 2233, 2234.

**22587 Vitisin C**

[180580-73-8] C₅₆H₄₂O₁₂ (906.94). [α]_D = +239.9° (c = 0.5, methanol). [Pharm](#): TNF inhibitor. [Source](#): PU⁽²⁾ TAO *Vitis vinifera*. [Ref](#): 1168.

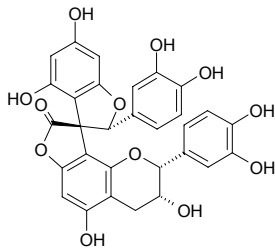
**22588 (+)-Vitisin D**

C₅₆H₄₂O₁₂ (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

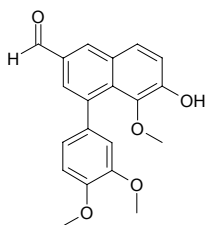


22589 Vitisinol

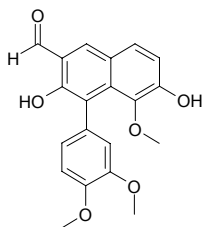
$C_{30}H_{22}O_{12}$ (574.50). White powder, $[\alpha]_D^{22} = -90^\circ$ ($c = 0.1$, MeOH). Source: SHAN PU TAO *Vitis amurensis*. Ref: 772.

**22590 Vitrofolal A**

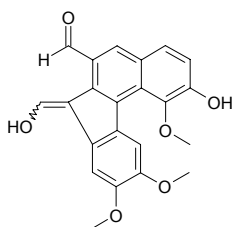
$C_{20}H_{18}O_5$ (338.36). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22591 Vitrofolal B**

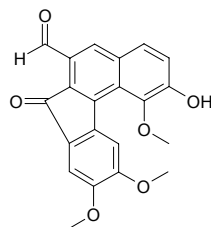
$C_{20}H_{18}O_6$ (354.36). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22592 Vitrofolal C**

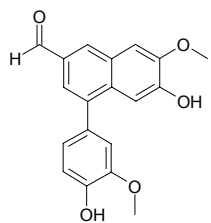
$C_{22}H_{18}O_6$ (378.39). Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = or > 64 μ g/mL). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22593 Vitrofolal D**

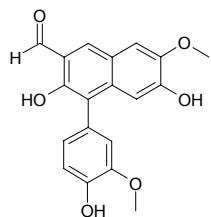
$C_{21}H_{16}O_6$ (364.36). Red amorphous solid. Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = 16, 32, or >64 μ g/mL). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.00023%dw). Ref: 3052.

**22594 Vitrofolal E**

$C_{19}H_{16}O_5$ (324.34). Yellowish amorphous solid. Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = or > 64 μ g/mL)^[3052], antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine)^[4791]. Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.00011%dw), HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00039%). Ref: 3052, 4791.

**22595 Vitrofolal F**

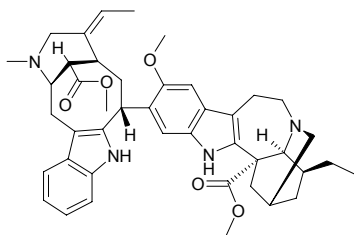
$C_{19}H_{16}O_6$ (340.34). Yellowish amorphous solid. Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine)^[4791]. Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.000040%dw), HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00039%). Ref: 3052, 4791.



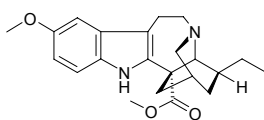
22596 Voacamine

[3371-85-5] $C_{43}H_{52}N_4O_5$ (704.92). Prismatic crystals (methanol–acetone), mp 223°C (dec), $[\alpha]_D^{20} = -52^\circ$ ($c = 1$, chloroform), $[\alpha]_D^{22} = -46^\circ$ ($c = 1.4$, chloroform).

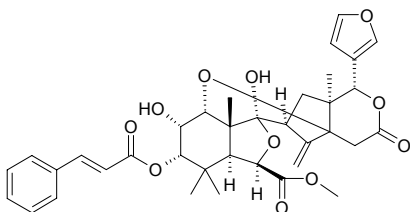
Pharm: Antibacterial (gram-positive bacteria); antineoplastic (mus, leukemia P₃₈₈, ED₅₀ = 2.6 μg/mL). **Source:** family Apocynaceae spp. **Ref:** 661.

**22597 Voacangine**

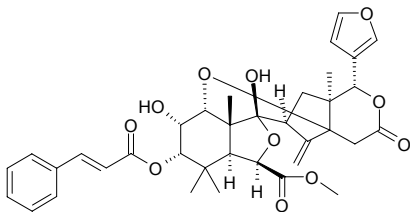
$C_{22}H_{28}N_2O_3$ (368.48). **Source:** LUO SHI TENG *Trachelospermum jasminoides*. **Ref:** 660.

**22598 Voamatin A**

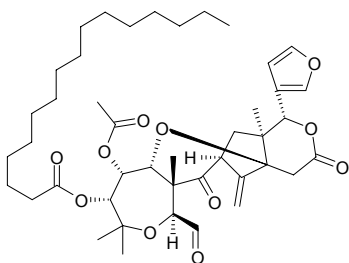
$C_{36}H_{40}O_{11}$ (648.71). **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22599 Voamatin B**

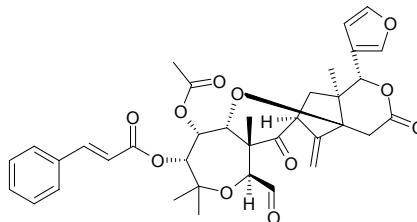
$C_{36}H_{40}O_{11}$ (648.71). **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22600 Voamatin C**

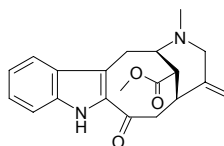
$C_{43}H_{62}O_{11}$ (754.97). Amorphous. **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22601 Voamatin D**

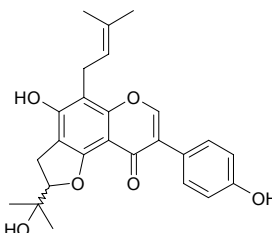
$C_{36}H_{38}O_{11}$ (646.70). Amorphous. **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22602 Vobasine**

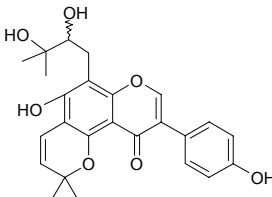
[2124-83-0] $C_{21}H_{24}N_2O_3$ (352.44). **Pharm:** Analgesic; antipyretic. **Source:** HAI NAN GOU YA HUA *Ervatamia hainanensis*, LUO SHI TENG *Trachelospermum jasminoides*, family Apocynaceae spp. **Ref:** 658, 660.

**22603 Vogelin H**

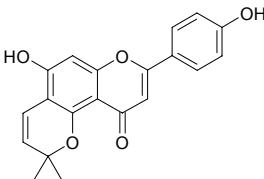
7,4'-Dihydroxy-8-(γ,γ-dimethylallyl)-2''ζ-(4''-hydroxyisopropyl)dihydrofurano [1'',3''-:5,6]isoflavone $C_{25}H_{26}O_6$ (422.48). Pale yellow powder, mp 195–197°C, $[\alpha]_D^{20} = -38^\circ$ ($c = 0.0015$, $CHCl_3$). **Source:** *Erythrina vogelii*. **Ref:** 4421.

**22604 Vogelin I**

7,4'-Dihydroxy-8-[(2''ζ,3'''-dihydroxy-3'''-methyl)butyl]-2'',2''-dimethyl-3'',4''-dehydropyrano[1'',4''-:5,6]isoflavone $C_{25}H_{26}O_7$ (438.48). Pale yellow powder, mp 248–249°C, $[\alpha]_D^{20} = -42^\circ$ ($c = 0.0050$, $CHCl_3$). **Source:** *Erythrina vogelii*. **Ref:** 4421.

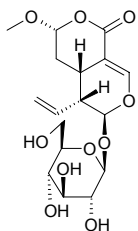
**22605 Vogelin J**

7,4'-Dihydroxy-2'',2''-dimethyl-3'',4''-dehydropyrano[1'',4''-:5,6]flavone $C_{20}H_{16}O_5$ (336.35). Pale yellow needles, mp 238–239°C. **Source:** *Erythrina vogelii*. **Ref:** 4421.

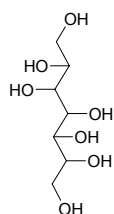


22606 Vogeloside

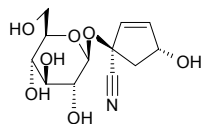
$C_{17}H_{24}O_{10}$ (388.37). Source: HUA MAO *Halenia corniculata*, REN DONG TENG *Lonicera japonica*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0076%dw). Ref: 660, 4723.

**22607 Volemitol**

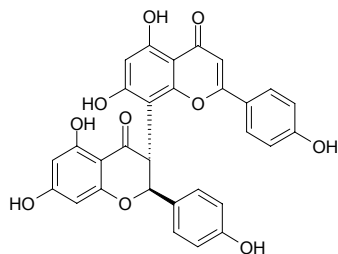
[488-38-0] $C_7H_{16}O_7$ (212.21). Pharm: Sweetener. Source: GAO BAO CHUN *Primula elatior*, HEI SHI ER *Dermatocarpon minutum*. Ref: 658, 660.

**22608 Volkenin**

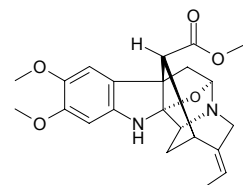
[66574-40-4] $C_{12}H_{17}NO_7$ (287.28). Pharm: Toxin. Source: *Barteria fistulosa*. Ref: 658.

**22609 Volkensiflavone**

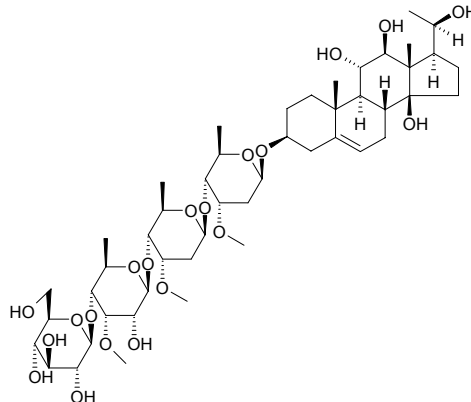
[27542-37-6] $C_{30}H_{20}O_{10}$ (540.49). mp (+) 300°C (dec). Pharm: Antioxidant inactive (DPPH scavenger, 10 μ mol/L, ScRt = 5%; control BHT, 10 μ mol/L, ScRt = 43%, IC₅₀ = 19.00 μ mol/L)^[4422]. Source: SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 6, 4422.

**22610 Volkensine**

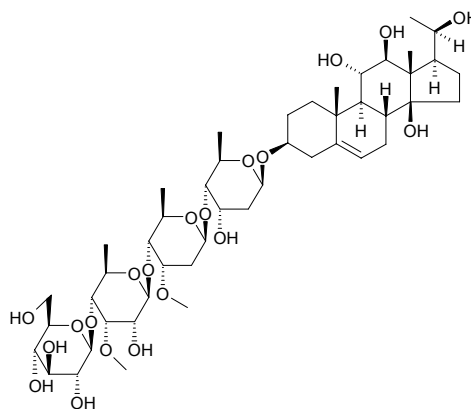
$C_{22}H_{26}N_2O_5$ (398.46). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). Ref: 3020.

**22611 Volubiloside A**

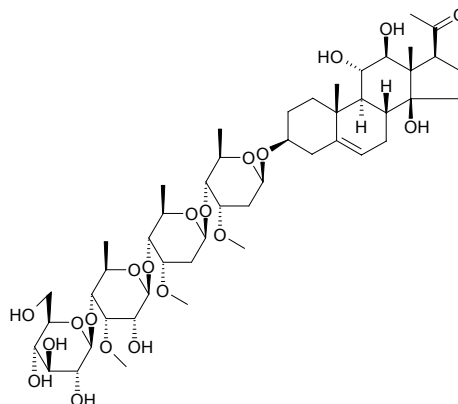
$C_{48}H_{80}O_{20}$ (977.16). Colorless needles (MeOH), mp 181~182 °C (dec), $[\alpha]_D^{25} = -16.7^\circ$ (c = 0.2, MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

**22612 Volubiloside B**

$C_{47}H_{78}O_{20}$ (963.13). Crystals (MeOH-CH₃CN), mp 178~179 °C (dec), $[\alpha]_D^{25} = -17.6^\circ$ (c = 0.2, MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

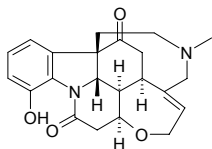
**22613 Volubiloside C**

$C_{48}H_{78}O_{20}$ (975.14). Crystals (MeOH-CH₃CN), mp 218~220 °C (dec), $[\alpha]_D^{25} = +23.8^\circ$ (c = 0.14, MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

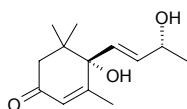


22614 Vomisine

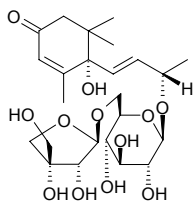
[125-15-5] C₂₂H₂₄N₂O₄ (380.45). mp 278~280°C. Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2, 542, 1521.

**22615 Vomifoliol**

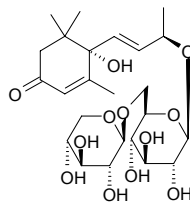
Blumenol A [23526-45-6] C₁₃H₂₀O₃ (224.30). Colorless rhombic crystals (benzene), mp 112~114°C, [α]_D¹⁸ = +215.3° (c = 1.0, methanol); [α]_D²⁵ = +111.4° (c = 0.14, CHCl₃). Pharm: Antineoplastic (HL-60, ED₅₀ = 20 μg/mL); cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)^[5038]; platelet aggregation inhibitor (rbt platelets induced by thrombin, 100 μg/mL, add thrombin 0.1 u/mL, AggRt = (92.1±0.1)%, control AggRt = (92.6±0.4)%; add AA, 100 μmol/L, 100 μg/mL, AggRt = (87.6±1.3)%, control AggRt = (87.8±0.3)%, Aspirin 50 μg/mL, AggRt = (11.7±10.1)%; add collagen 10 μg/mL, 100 μg/mL, AggRt = (88.2±0.2)%, control AggRt = (89.3±0.5)%, Aspirin 100 μg/mL, AggRt = (81.3±0.5)%; add PAF 2 ng/mL, 100 μg/mL, AggRt = (92.7±0.1)%, control AggRt = (93.0±0.6)%^[4938]. Source: BAI SHOU WU *Cynanchum bungei*, DA ZAO *Ziziphys jujuba*, HUANG HUA REN *Sida acuta*, JI DAN GUO *Passiflora edulis*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], MAO DONG QING *Ilex pubescens* (leaf), TAI WAN HU JIAO *Piper taiwanense* (stem), XING ZI *Prunus armeniaca*, YU XING CAO *Houttuynia cordata*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 660, 900, 4938, 5038.

**22616 (6S,9R)-Vomifoliol-9-O-β-apiofuranosyl-(1''→6')-O-β-glucopyranoside**

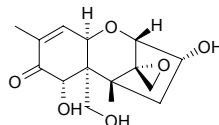
C₂₄H₃₈O₁₂ (518.56). Amorphous powder, [α]_D²³ = +37.2° (c = 1.2, MeOH); [α]_D²⁵ = +37.5° (c = 0.1, MeOH). Pharm: Antifungal inactive (*Candida albicans*, MIC > 200 μg/mL, control Amphotericin B, MIC = 1~4 μg/mL)^[5021]; antibacterial inactive^[5021]. Source: PI PA YE *Eriobotrya japonica* (stem and leaf), *Baseonema acuminatum* (leaf). Ref: 3061, 5021.

**22617 (6S,9R)-Vomifoliol-9-O-β-xylopyranosyl-(1''→6')-O-β-glucopyranoside**

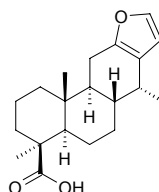
(6S,7E,9R)-Vomifoliol-9-O-β-D-xylopyranosyl-(1→6)-O-β-D-glucopyranoside C₂₄H₃₈O₁₂ (518.56). Amorphous powder, [α]_D²³ = +22.8° (c = 1.0, MeOH); white amorphous powder, [α]_D = +48.8° (MeOH). Source: DUO LIE WEI LING CAI *Potentilla multifida* (whole herb), PI PA YE *Eriobotrya japonica* (stem and leaf). Ref: 3061, 4821.

**22618 Vomitoxin**

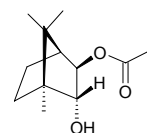
[51481-10-8] C₁₅H₂₀O₆ (296.32). Pharm: LD₅₀ (mus, ip) = 170 mg/kg. Source: *Fusarium roseum*. Ref: 658.

**22619 (+)-Vouacapenic acid**

C₂₀H₂₈O₃ (316.44). Source: MEI GUO KE YA SHU *Vouacapoua Americana* (wood). Ref: 4315.

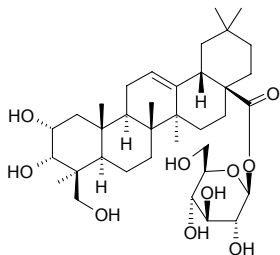
**22620 Vulgarole**

2-Acetoxy-3-bornanol C₁₂H₂₀O₃ (212.29). Source: BEI AI *Artemisia vulgaris*. Ref: 660.

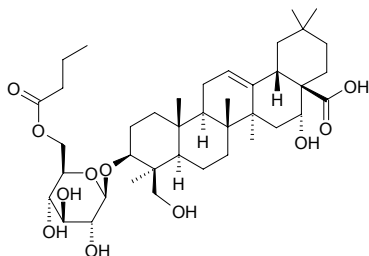


22621 Vulgarsaponin

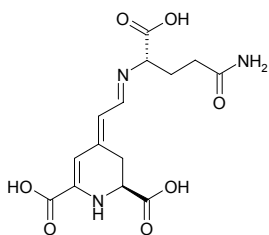
2 α ,3 α ,24-Trihydroxy-olean-12-ene-28-oic acid-28-*O*- β -D-glucopyranosyl ester C₃₆H₅₈O₁₀ (650.86). White powder. Source: XIA KU CAO *Prunella vulgaris*. Ref: 838.

**22622 Vulgarsaponin B**

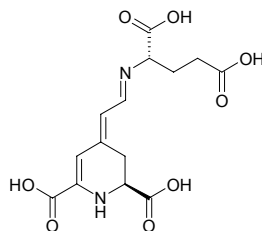
3 β ,16 α ,24-Trihydroxyoleana-12-en-28-oic acid-3-*O*-(6'-butyryl)- β -D-glucopyranoside C₄₀H₆₄O₁₁ (720.95). Colorless acicular crystals (MeOH), mp 262~264°C. Source: XIA KU CAO *Prunella vulgaris*. Ref: 684.

**22623 Vulgaxanthin I**

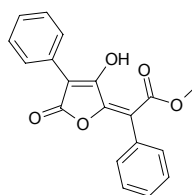
[904-62-1] C₁₄H₁₇N₃O₇ (339.31). Pharm: Yellow pigment. Source: TIAN CAI *Beta vulgaris*, ZI MO LI GEN *Mirabilis jalapa*. Ref: 6.

**22624 Vulgaxanthin II**

[1047-87-6] C₁₄H₁₆N₂O₈ (340.30). Source: MAO MA CHI XIAN *Portulaca pilosa*, TIAN CAI *Beta vulgaris*. Ref: 658, 660, 1521.

**22625 Vulpinic acid**

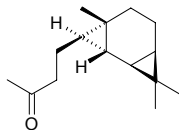
Vulpic acid [521-52-8] C₁₉H₁₄O₅ (322.32). mp 148~149°C. Source: JIN SI DAI *Alectoria vivens*. Ref: 6.



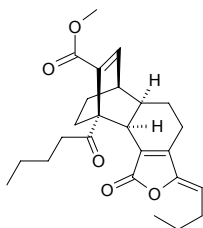
W

22626 Waitziacuminone

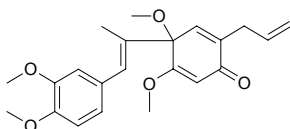
$C_{15}H_{24}O$ (220.36). Source: YUAN YE TAI *Jamesoniella colorata*. Ref: 3375.

**22627 Wallichilide**

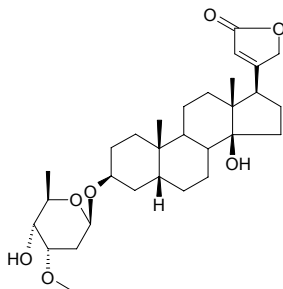
$C_{25}H_{32}O_5$ (412.53). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**22628 Wallichinine**

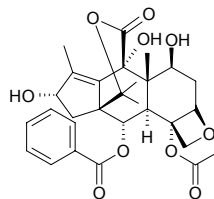
Wallichinin [125292-97-9] $C_{22}H_{26}O_5$ (370.46). Colorless oil, $[\alpha]_D^{30} = 0^\circ$ ($c = 0.86$, dichloromethane), $[\alpha]_D^{24} = -21.0^\circ$ ($c = 0.712$, $CHCl_3$). Pharm: Platelet aggregation inhibitor (28 $\mu\text{mol/L}$, induced by PAF, InRt = 100%); PAF receptor antagonist ($[^3H]$ PAF receptor combination trial, $IC_{50} = 1.4 \mu\text{mol/L}$). Source: MAO JU *Piper puberulum* (stem-leaf or whole herb: content = 0.35%)^[5508], SHAN JU *Piper hancei* (stem-leaf or whole herb: content = 0.60%)^[5508], SHI NAN TENG *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*] (stem-leaf or whole herb: content = 0.63%)^[5508], XIAN MAI JU *Piper bavinum* (stem-leaf or whole herb: content = 0.31%)^[5508], ZHANG YE HU JIAO *Piper polysphorum*. Ref: 130, 660, 1165, 1578, 5508.

**22629 Wallichoside**

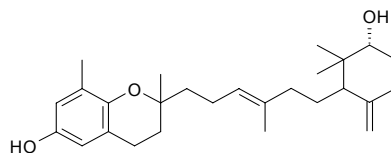
[31087-88-4] $C_{30}H_{46}O_7$ (518.70). mp 193~196°C. Pharm: Cardiotonic (anesthetic cat). Source: QING MING HUA *Beaumontia grandiflora*. Ref: 6, 658.

**22630 Wallifoliol**

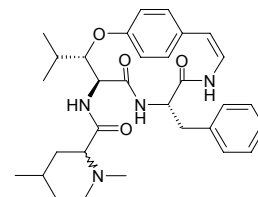
$C_{29}H_{34}O_{10}$ (542.59). $[\alpha]_D = -108^\circ$ (MeOH). Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 0.56 \mu\text{g/mL}$; Hepa59T/VGH, $IC_{50} = 0.1 \mu\text{g/mL}$; control Taxol, KB, $IC_{50} = 0.001 \mu\text{g/mL}$; Hepa59T/VGH, $IC_{50} = 0.001 \mu\text{g/mL}$)^[4666]; cytotoxic (*in vitro*, 30 $\mu\text{g/mL}$: A498, InRt = 27.9%; NCI-H226, InRt = 29.1%; A549, InRt = 16.7%; PC3, InRt = 6.4%; control Taxol, 30 $\mu\text{g/mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800]; yield = 0.0011% dw^[4666], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*^[662]. Ref: 662, 4666, 4800.

**22631 Walsurol**

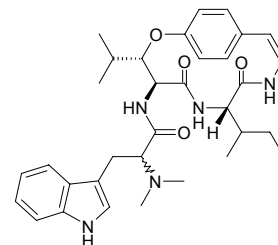
$C_{27}H_{40}O_3$ (412.62). Viscous oil, $[\alpha]_D^{28} = -15.8^\circ$ ($c = 0.36$, $CHCl_3$). Source: YUN NAN GE SHE SHU *Walsura yunnanensis*. Ref: 2144.

**22632 Waltherine A**

$C_{31}H_{42}N_4O_4$ (534.70). Needles ($CHCl_3$ - Et_2O), mp 234~235°C, $[\alpha]_D^{20} = -229.8^\circ$ ($c = 0.24$, MeOH) Source: *Waltheria douradinha*. Ref: 2296.

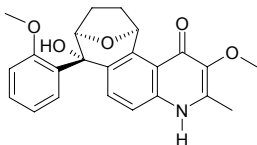
**22633 Waltherine B**

$C_{33}H_{43}N_5O_4$ (573.74). Needles ($CHCl_3$ -MeOH), mp 243~243°C, $[\alpha]_D^{20} = -201.8^\circ$ ($c = 0.21$, MeOH), $[\alpha]_D^{20} = -356.7^\circ$ ($c = 0.5$, $CHCl_3$). Source: *Waltheria douradinha*. Ref: 2296.

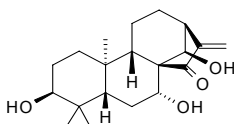


22634 Waltherione A

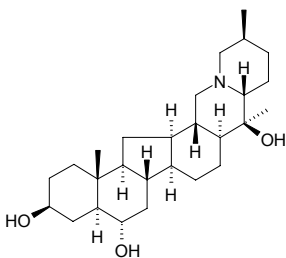
9-Hydroxy-3-methoxy-2-methyl-9-(2-methoxyphenyl)-14-oxa-biciclo [3.2.1]octa-[f]quinolinone C₂₃H₂₃NO₅ (393.44). White solid (CHCl₃-MeOH), mp 206.0~207.5°C, [α]_D²⁵ = -25.5° (c = 0.04, CHCl₃). **Pharm:** Antibacterial inactive (*Staphylococcus aureus*, *Streptococcus epidermidis*, *Micrococcus luteus*, *Klebsiella pneumoniae*, *Salmonella setubal* and *Escherichia coli*). **Source:** *Waltheria douradinha* (root cortex). **Ref:** 5284.

**22635 Wanghzaozin A**

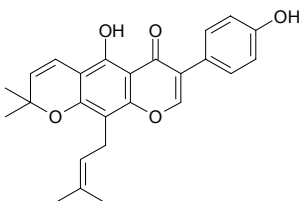
C₂₀H₃₀O₄ (334.46). mp 225~227°C, [α]_D 10 = -77° (c = 0.35, CHCl₃). **Source:** XIANG CHA CAI *Isodon amethystoides*. **Ref:** 4067.

**22636 Wanpeinine A**

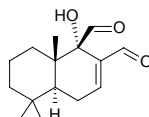
5 α ,14 α ,22 β -Cevanine-3 β ,6 α ,20 β -triol. C₂₇H₄₅NO₃ (431.66). White clustered crystals, mp 281~283°C (dec), [α]_D = -8.71°. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*. **Ref:** 65.

**22637 Warangalone**

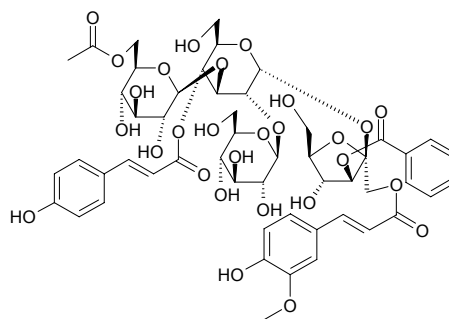
Scandenone C₂₅H₂₄O₅ (404.47). **Source:** GAO HUI MAO DOU *Tephrosia elata*, PAN YUAN YU TENG *Derris scandens*, SAI NEI JIA ER CI TONG *Erythrina senegalensis*, SAN XIAU YE SHAN DOU GEN *Euchresta japonica*, *Erythrina vogelii*. **Ref:** 1521, 4421.

**22638 Warburganal**

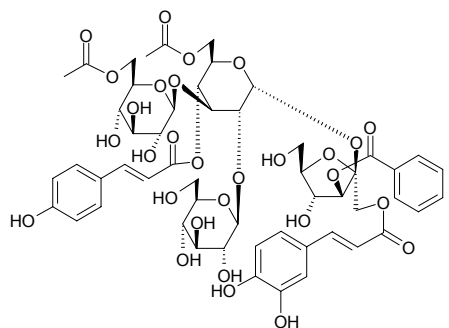
[62994-47-2] C₁₅H₂₂O₃ (250.34). **Pharm:** Antifungal; inhibits microzymes; insect antifeedant (*Spodoptera littoralis* and *S. exempta*); plant growth regulator. **Source:** SHUI LIAO *Polygonum hydropiper*, *Warburgia salutaris*. **Ref:** 658, 660.

**22639 Watterose A**

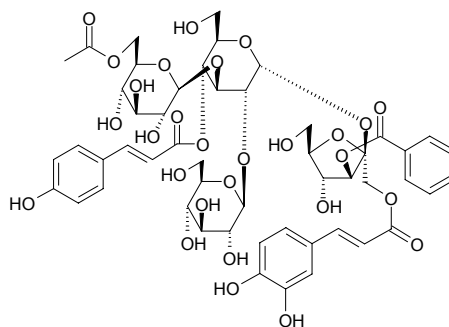
C₅₂H₆₂O₂₈ (1135.06). [α]_D = -20.5°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.

**22640 Watterose B**

C₅₃H₆₂O₂₉ (1163.27). [α]_D = -5.0°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.

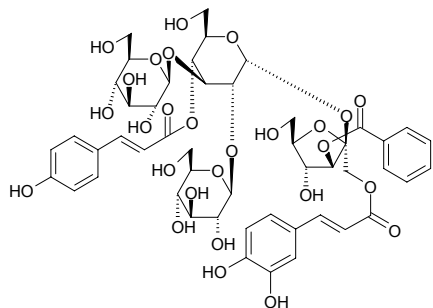
**22641 Watterose C**

C₅₁H₆₀O₂₈ (1121.03). [α]_D = -6.6°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.

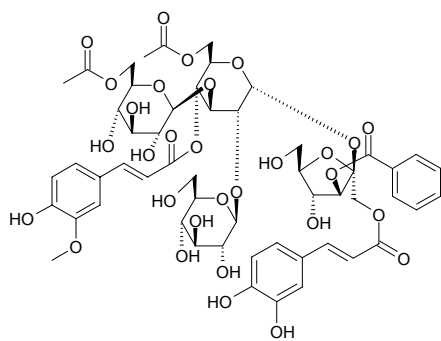


22642 Watterose D

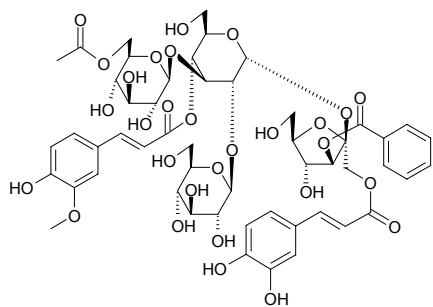
$C_{49}H_{58}O_{27}$ (1078.99). $[\alpha]_D = +17.5^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22643 Watterose E**

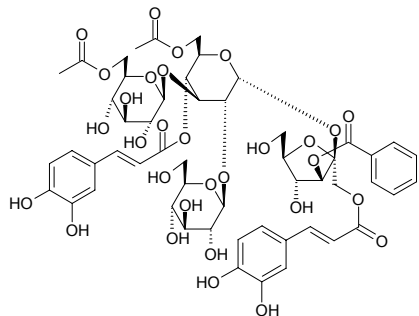
$C_{54}H_{64}O_{30}$ (1193.09). $[\alpha]_D = -9.1^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22644 Watterose F**

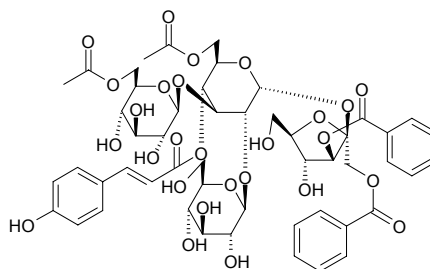
$C_{52}H_{62}O_{29}$ (1151.06). $[\alpha]_D = -8.0^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22645 Watterose G**

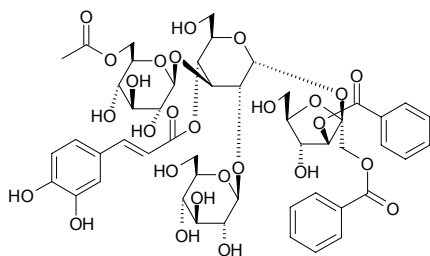
$C_{53}H_{62}O_{30}$ (1179.07). $[\alpha]_D = -12.1^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22646 Watterose H**

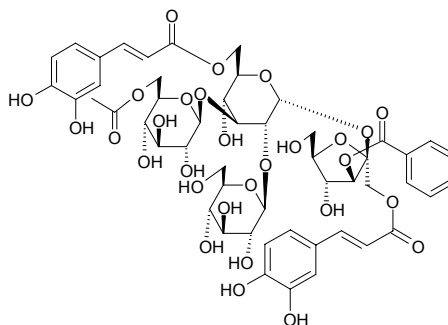
$C_{51}H_{60}O_{27}$ (1105.03). $[\alpha]_D = -41.2^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22647 Watterose I**

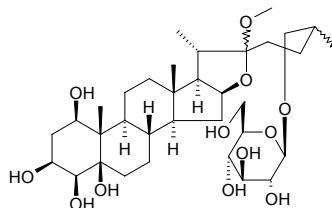
$C_{49}H_{58}O_{27}$ (1078.99). $[\alpha]_D = +46.8^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

**22648 Watterose J**

$C_{51}H_{60}O_{29}$ (1137.03). $[\alpha]_D = -39.0^\circ$. Source: CHANG MAO ZI YUAN ZHI
Polygala wattersii. Ref: 2184.

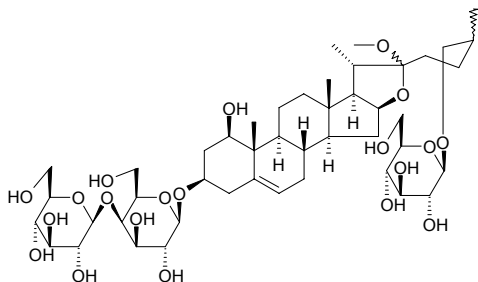
**22649 Wattoside B**

22-O-Methyl-25(*R,S*)-furost-1 β ,3 β ,4 β ,5 β ,22 ζ ,26 β -hexol-26-*O*- β -*D*-glucopyranoside $C_{34}H_{58}O_{12}$ (658.83). White powder, $[\alpha]_D^{18} = -18.7^\circ$ ($c = 0.68$, MeOH).
Source: WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. Ref: 2141.

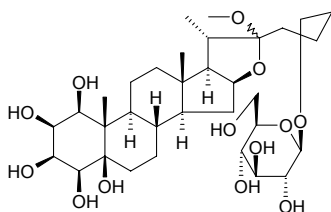


22650 Wattoside C

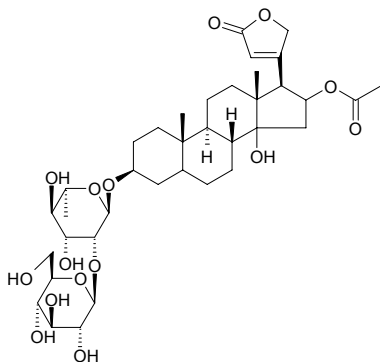
22-*O*-Methyl-26-*O*- β -*D*-glycopyranosyl-25(*S*)-furost-5-en-1 β ,3 β ,22 ζ ,26 β -tetraol-3-*O*-[*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-galactopyranoside C₄₆H₇₆O₂₀ (949.11). White powder, $[\alpha]_D^{20} = -44.30^\circ$ ($c = 0.82$, MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*], YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. **Ref:** 660, 2141.

**22651 Wattoside D**

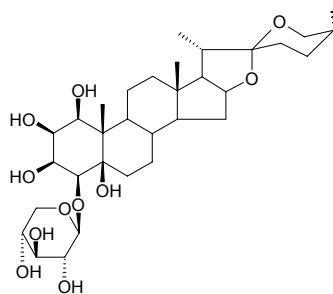
22-*O*-Methyl-25(*S*)-furost-1 β ,2 β ,3 β ,4 β ,5 β ,22 ζ ,26 β -heptol-26-*O*- β -*D*-glucopyranoside C₃₃H₅₆O₁₃ (660.81). White powder, $[\alpha]_D^{20} = -45.70^\circ$ ($c = 0.26$, MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. **Ref:** 2141.

**22652 Wattoside E**

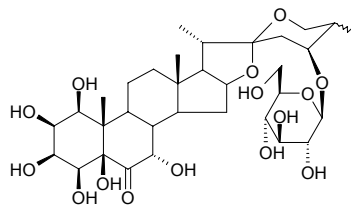
Oleandrigenin-3-*O*-[*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)]- α -*L*-rhamnopyranoside C₃₇H₅₆O₁₅ (740.85). White powder, $[\alpha]_D^{26} = -39.9^\circ$ ($c = 0.57$, MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. **Ref:** 2141.

**22653 Wattoside G**

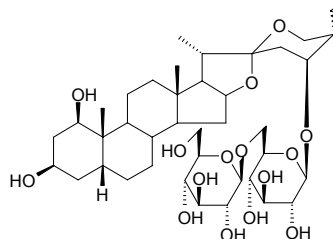
(2*R*)-1 β ,2 β ,3 β ,5 β -Tetrahydroxyspirostan-4 β -yl-*O*- β -*D*-xylopyranoside C₃₂H₅₂O₁₁ (612.76). Amorphous powder (MeOH), mp 214~216°C, $[\alpha]_D^{20} = -65.5^\circ$ ($c = 0.03$, MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC₅₀ = 35.67 μ mol/L, positive control *cis*-Dichlorodiamine platinum, IC₅₀ = 69.33 μ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

**22654 Wattoside H**

(2*S*,25*S*)-24-[(β -*D*-Glucopyranosyl)oxy]-1 β ,2 β ,3 β ,4 β ,5 β ,7 β -hexahydroxyspirostan-6-one C₃₃H₅₂O₁₅ (688.77). Amorphous powder (MeOH), mp 200~203°C, $[\alpha]_D^{20} = -78.0^\circ$ ($c = 0.014$, MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC₅₀ = 76.16 μ mol/L, positive control *cis*-Dichlorodiamine platinum, IC₅₀ = 69.33 μ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

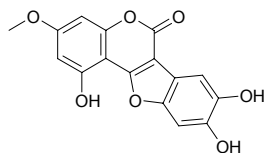
**22655 Wattoside I**

(2*S*,25*S*)-1 β ,3 β -Dihydroxy-5 β -spirostan-24-yl-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside C₃₉H₆₄O₁₅ (772.94). Amorphous powder (MeOH), mp 205~207°C, $[\alpha]_D^{20} = -76.2^\circ$ ($c = 0.027$, MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC₅₀ = 76.96 μ mol/L, positive control *cis*-Dichlorodiamine platinum, IC₅₀ = 69.33 μ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

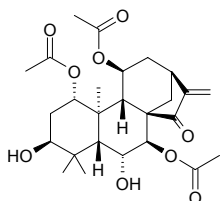


22656 Wedelolactone

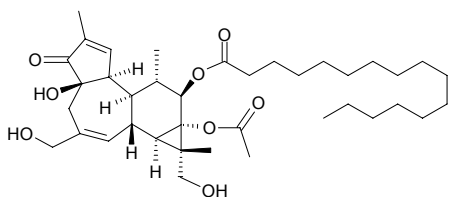
[524-12-9] C₁₆H₁₀O₇ (314.26). mp 327~330°C (dec). **Pharm:** Antihepatotoxin. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6, 658.

**22657 Weisiensin A**

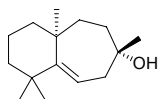
C₂₆H₃₆O₉ (492.57). mp 298~300°C. **Pharm:** Cytotoxic (*in vitro*, K562, IC₅₀ = 3.3 μg/mL; control *cis*-Platin, IC₅₀ = 1.9 μg/mL)^[4640]. **Source:** WEI XI XIANG CHA CAI *Isodon weisiensis*, XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0018%dw)^[4640]. **Ref:** 4067, 4640.

**22658 Welensalifactor F1**

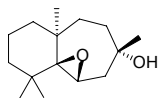
C₃₈H₆₀O₈ (644.90). **Pharm:** Carcinogen assistant. **Source:** DAN HUANG BA DOU *Croton flavens*. **Ref:** 658.

**22659 Widdrol**

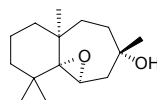
[6982-80-4] C₁₅H₂₆O (222.37). mp (+) 98°C, (±) 86~87°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 6.

**22660 cis-Widdrol α-epoxide**

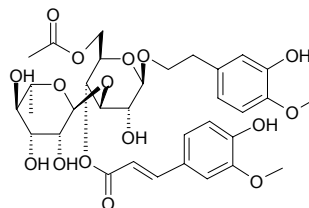
C₁₅H₂₆O₂ (238.37). mp (*cis*) 154°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**22661 trans-Widdrol α-epoxide**

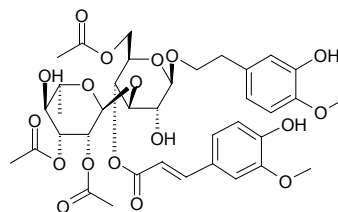
C₁₅H₂₆O₂ (238.37). mp (*trans*) 119°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**22662 Wiedemannioside A**

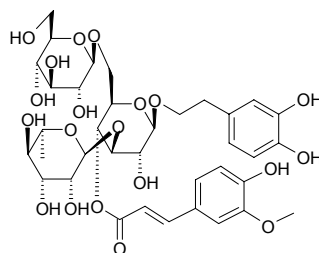
6'-*O*-Acetylmartynoside C₃₃H₄₂O₁₆ (694.69). Colorless amorphous powder, [α]_D²⁰ = -50° (c = 0.1, MeOH). **Source:** ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 5449.

**22663 Wiedemannioside B**

C₃₇H₄₆O₁₈ (778.77). Colorless amorphous powder, [α]_D²⁰ = -120° (c = 0.1, MeOH). **Source:** ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 5449.

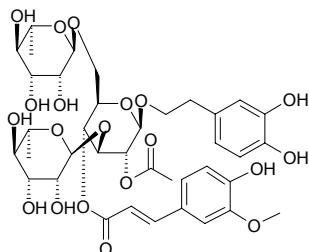
**22664 Wiedemannioside C**

Jionoside A₁ [120444-60-2] C₃₆H₄₈O₂₀ (800.77). Colorless amorphous powder, [α]_D²⁰ = -80° (c = 0.1, MeOH); amorphous powder, [α]_D²⁴ = -59.8° (c = 0.38, MeOH). **Pharm:** Immunosuppressant (mus, 100mg/kg, orl, inhibits formation of hemolytic patch formative cell HPFC in spleen, InRt = 23.0%). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 2, 1521, 1785, 5449.

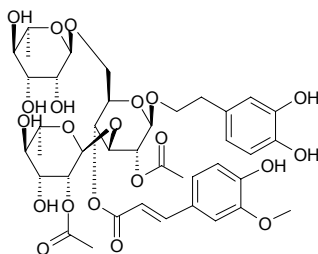


22665 Wiedemannioside D

$C_{38}H_{50}O_{20}$ (826.81). Colorless amorphous powder, $[\alpha]_D^{20} = -72^\circ$ ($c = 0.1$, MeOH). Source: ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. Ref: 5449.

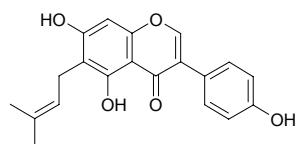
**22666 Wiedemannioside E**

$C_{40}H_{52}O_{21}$ (868.85). Colorless amorphous powder, $[\alpha]_D^{20} = -59^\circ$ ($c = 0.1$, MeOH). Source: ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. Ref: 5449.

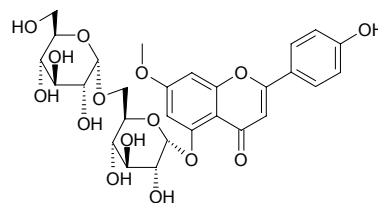
**22667 Wightone**

5,7,4'-Trihydroxy-6-prenyl-isoflavone [51225-30-0] $C_{20}H_{18}O_5$ (338.36). Pharm: Cytotoxic (HSC-2 cells, $CC_{50} = 0.12$ mmol/L; HGF, $CC_{50} = 0.25$ mmol/L)^[3025]; cytotoxic (KB, $EC_{50} = 0.78$ μg/mL)^[5220]; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100μmol/L, InRt = (-17.8±0.5)%, counteractive, control Silybin, 100μmol/L, InRt = (77.0±5.5)%^[4095]); antibacterial (*Escherichia coli*, MIA = 0.05μg, control Chloramphenicol, MIA = 0.001μg; *Bacillus subtilis*, MIA = 0.01μg, Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.01μg, Chloramphenicol, MIA = 0.001μg)^[3785]; antifungal (*Candida mycoderma*, MIA = 0.05μg, Miconazole, MIA = 0.0001μg)^[3785]; antifungal (*Aspergillus fumigatus* and *Aspergillus nidulan*, MIC = 2~4μg/mL; *Cryptococcus neoformans*, MIC = 4μg/mL)^[4713]; antioxidant (DPPH scavenger, TLC detection limit = 1.0μg, $IC_{50} = 2100$ μg/mL; control Quercetin, TLC detection limit < 0.05μg, $IC_{50} = 7$ μg/mL; Gallic acid, TLC detection limit < 0.05μg, $IC_{50} = 4$ μg/mL; Ascorbic acid, TLC detection limit < 0.10μg, $IC_{50} = 18$ μg/mL)^[3785]; antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 6.25μg/mL, control Linezolid, MIC = 1.56μg/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 6.25μg/mL, Linezolid,

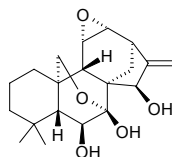
MIC = 0.78μg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean $MIC_{80} = 6.25$ μg/mL, Linezolid, mean $MIC_{80} = 0.78$ μg/mL)^[5007]. Source: BAI YU SHAN DOU *Lupinus albus*, CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex)^[5220], GOU JI *Cudrania cochinchinensis* (root: yield = 0.0131%dw^[3025]; yield = 0.000034%dw^[4713]), GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf)^[4685], *Lupinus* sp., GUANG BU DING GONG TENG *Erycibe expansa*, *Bolusanthus speciosus* (root wood)^[3785]. Ref: 658, 3025, 3785, 4095, 4685, 4713, 5007, 5220.

**22668 Wikstroemin**

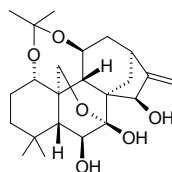
$C_{28}H_{32}O_{15}$ (608.56). mp 200~202°C, 270~272°C. Pharm: Diuretic (anesthetic dog, 2~4mg/kg iv). Source: LIAO GE WANG GEN *Wikstroemia indica*. Ref: 6, 658.

**22669 Wikstroemioidin A**

$C_{20}H_{28}O_5$ (348.44). mp 196~197°C, $[\alpha]_D^{25} = -204.3^\circ$ ($c = 0.23$, pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

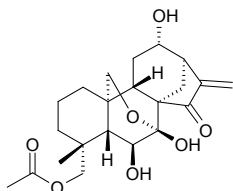
**22670 Wikstroemioidin B**

$C_{23}H_{34}O_6$ (406.52). mp 110~112°C, $[\alpha]_D^{25} = -17.6^\circ$ ($c = 0.23$, pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

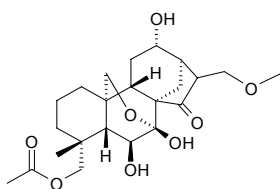


22671 Wikstroemioidin C

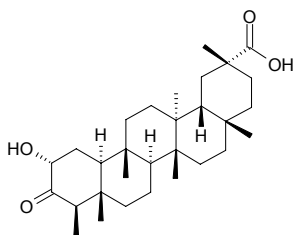
$C_{22}H_{30}O_7$ (406.48). $[\alpha]_D^{25} = -71.4^\circ$ ($c = 0.17$, pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

**22672 Wikstroemioidin D**

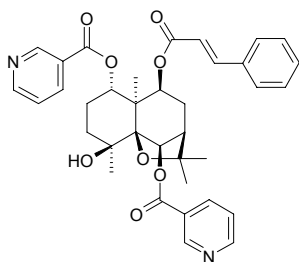
$C_{23}H_{34}O_8$ (438.52). $[\alpha]_D^{25} = -57.1^\circ$ ($c = 0.14$, pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

**22673 Wilfolie acid C**

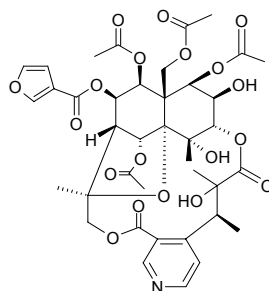
$C_{30}H_{48}O_4$ (472.71). Pharm: DPPH scavenger inactive (for $40\mu\text{mol/L}$ DPPH radical, $SC_{50} > 40\mu\text{mol/L}$). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**22674 Wilfordicine**

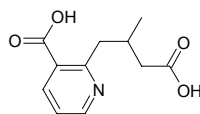
$C_{36}H_{38}N_2O_8$ (626.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**22675 Wilfordconine**

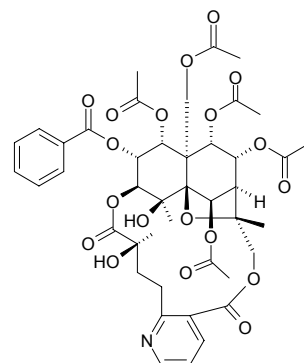
$C_{39}H_{45}NO_{19}$ (831.79). Colorless columnar crystals, mp $192\text{--}193^\circ\text{C}$. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 868.

**22676 Wilfordic acid**

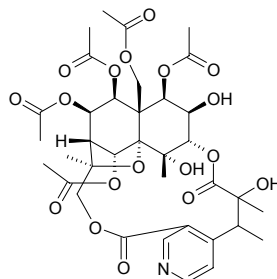
$C_{11}H_{13}NO_4$ (223.23). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22677 Wilfordine**

[37329-51-3] $C_{43}H_{49}NO_{19}$ (883.87). mp $175\text{--}176^\circ\text{C}$. Pharm: Insecticidal. Source: LEI GONG TENG *Tripterygium wilfordii*, GUI JIAN YU *Euonymus alatus*. Ref: 2, 655, 658.

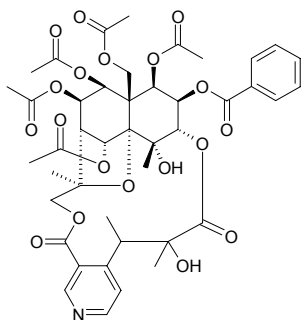
**22678 Wilfordlongine**

$C_{36}H_{45}NO_{18}$ (779.76). Colorless columnar crystals, mp $179\text{--}180^\circ\text{C}$. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2221.

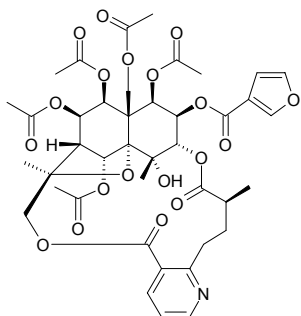


22679 Wilfordside

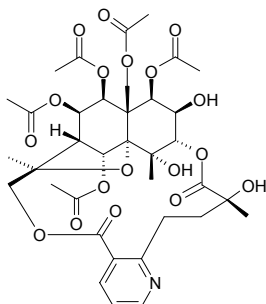
[171090-83-8] $C_{43}H_{49}NO_{19}$ (883.87). Colorless columnar crystals, mp 176~178°C. **Pharm:** Mmunosuppressant (mus, ip, 50mg/kg, maximum hemolytic dilution ratio = 1:512; ip, 100mg/kg, maximum hemolytic dilution ratio = 1:256; 10mg/kg cytoxin control, maximum hemolytic dilution ratio = 1:256). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 330.

**22680 Wilforgine**

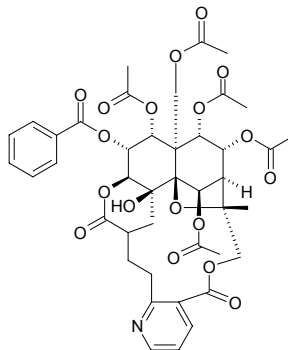
[37239-47-7] $C_{41}H_{47}NO_{19}$ (857.83). **Source:** KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 655, 660.

**22681 Wilfordine**

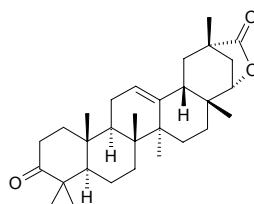
$C_{36}H_{45}NO_{18}$ (779.76). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 660.

**22682 Wilforine**

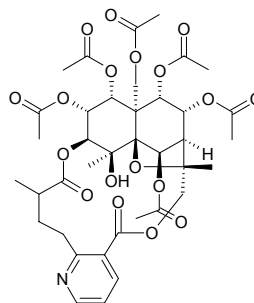
[11088-09-8] $C_{43}H_{49}NO_{18}$ (867.87). **Source:** LEI GONG TENG *Tripterygium wilfordii* (root: mean content of 2 origins = 0.0581%^[5508]). **Ref:** 2, 655, 5508.

**22683 Wilforide B**

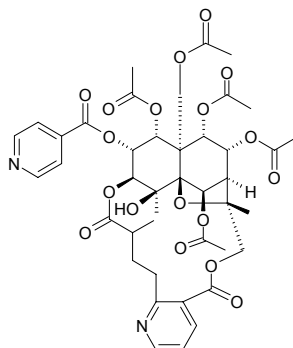
[84104-70-1] $C_{30}H_{44}O_3$ (452.68). **Source:** BAO XING WEI MAO *Euonymus mupinensis*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 278.

**22684 Wilformine**

[41758-69-4] $C_{38}H_{47}NO_{18}$ (805.79). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 1521.

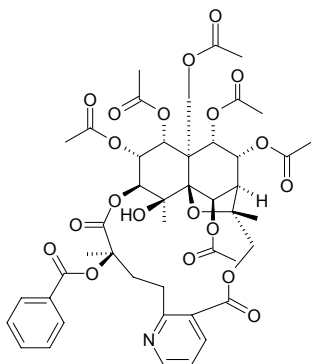
**22685 Wilforine**

[112899-84-0] $C_{42}H_{48}N_2O_{18}$ (868.85). **Pharm:** immunosuppressant (mus, 80mg/kg, inhibits formation of hemolysin). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 1614.

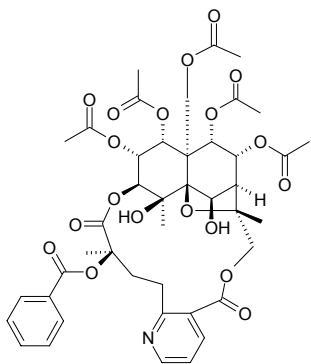


22686 Wilfornine A

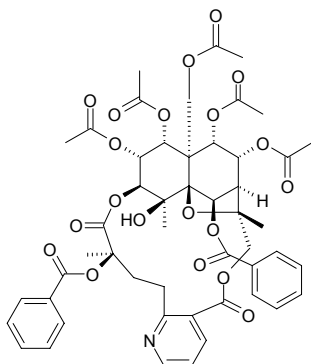
$C_{45}H_{51}NO_{20}$ (925.90). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- α , IL-1 β , IL-4, IL-2 and IFN- γ in hmn peripheral mononuclear cells, 10 μ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22687 Wilfornine B**

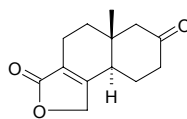
$C_{43}H_{49}NO_{19}$ (883.87). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- α , IL-1 β , IL-4, IL-2 and IFN- γ in hmn peripheral mononuclear cells, 10 μ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22688 Wilfornine C**

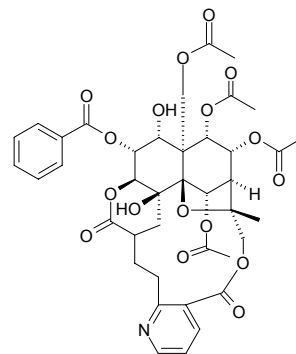
$C_{50}H_{53}NO_{20}$ (987.97). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- α , IL-1 β , IL-4, IL-2 and IFN- γ in hmn peripheral mononuclear cells, 10 μ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22689 Wilforonide**

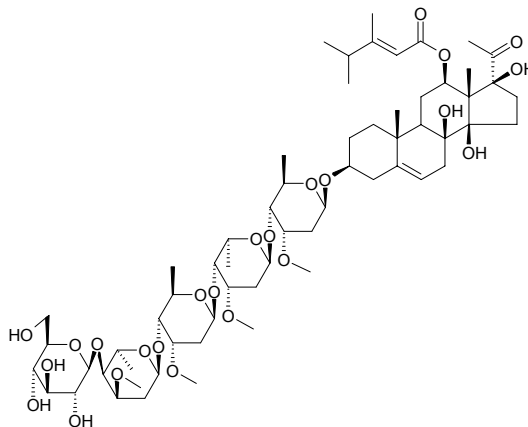
$C_{13}H_{16}O_3$ (220.27). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**22690 Wilforzine**

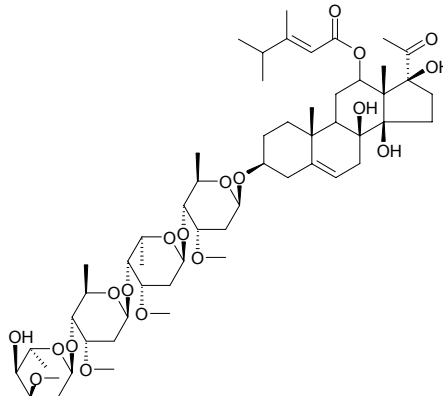
[37239-46-6] $C_{41}H_{47}NO_{17}$ (825.83). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 655.

**22691 WilfosideC₁G**

$C_{62}H_{100}O_{24}$ (1229.47). **Source:** ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. **Ref:** 660.

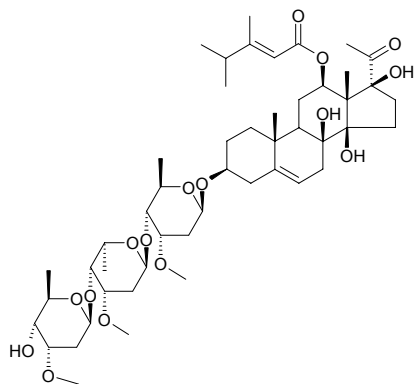
**22692 WilfosideC₁N**

$C_{56}H_{90}O_{19}$ (1067.33). **Source:** ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. **Ref:** 660.

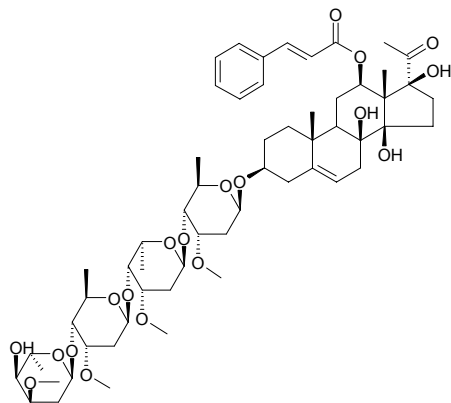


22693 WilfosideC₃N

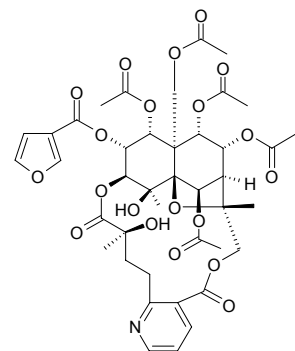
C₄₉H₇₈O₁₆ (923.16). Source: ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. Ref: 660.

**22694 WilfosideK₁N**

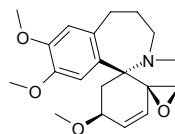
C₅₈H₈₆O₁₉ (1087.32). Source: ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. Ref: 660.

**22695 Wilfotrine**

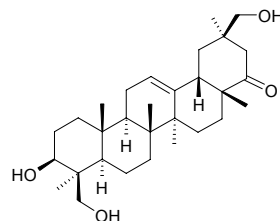
[37239-48-8] C₄₁H₄₇NO₂₀ (873.83). Colorless lamellar crystals, mp 235–237°C (acetone–methanol). Pharm: Immunosuppressant (mus, 80mg/kg ip, inhibits formation of hemolysin, mus, 160mg/kg ip, inhibits cellular immunity, based on a GVHR index). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 2, 655, 900.

**22696 Wilsonine**

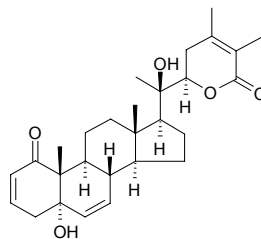
[39024-12-9] C₂₀H₂₅NO₄ (343.43). Crystals (Et₂O), mp 150–151°C, [α]_D = –51.4° (c = 0.55, CHCl₃), [α]_D = –36° (c = 0.55, EtOH). Source: RI BEN CU FEI *Cephalotaxus harringtonia* (seed), SAN JIAN SHAN *Cephalotaxus fortunei*, SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.024%)^[4675], TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig and leaf), ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. Ref: 2, 660, 1521, 4675.

**22697 Wistariasapogenol A**

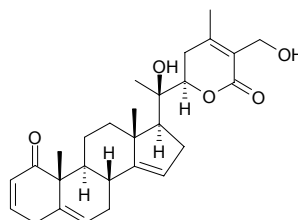
[124657-60-9] C₃₀H₄₈O₄ (472.71). Colorless prismatic crystals, mp 265–267°C, [α]_D²⁷ = +53.9° (c = 0.17, methanol). Pharm: Inhibits promoter of cancer, inhibits activity of EBV induced by TPA. Source: SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1003, 1004, 1014.

**22698 Withacoagin**

C₂₈H₃₈O₅ (454.61). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

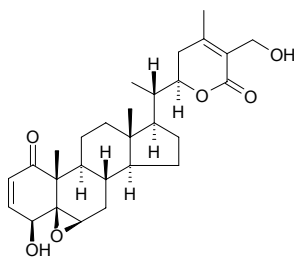
**22699 Withacoagulin**

20β,27-Dihydroxy-1-oxo-(22R)-witha-2,5,24-tetraenolide C₂₈H₃₆O₅ (452.60). [α]_D²⁵ = +37° (c = 0.081, CHCl₃). Source: NING GU SHUI QIE *Withania coagulans*. Ref: 3378.

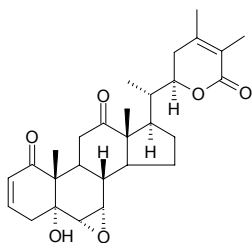


22700 Withaferin A

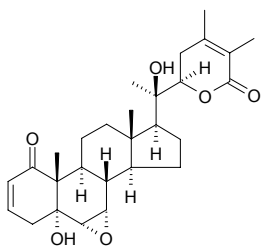
[5119-48-2] $C_{28}H_{38}O_6$ (470.61). mp 252–253°C. **Pharm:** Antibacterial; antineoplastic (S_{180} , EC = 40 $\mu\text{g/mL}$, mus, melanoma, EAC and E0771 mammary cancer); antifungal; anti-inflammatory (mus, swollen foot model, ED_{50} = 12.0 mg/kg); AChE inhibitor (IC_{50} = (84.0 \pm 1.5) $\mu\text{mol/L}$, control Galanthamine IC_{50} = (0.50 \pm 0.001) $\mu\text{mol/L}$, Eserine IC_{50} = (0.04 \pm 0.0001) $\mu\text{mol/L}$)^[2563]; butyrylcholinesterase (BChE) inhibitor (IC_{50} = (125 \pm 3.2) $\mu\text{mol/L}$, control Galanthamine IC_{50} = (8.2 \pm 0.01) $\mu\text{mol/L}$, Eserine IC_{50} = (0.85 \pm 0.0001) $\mu\text{mol/L}$)^[2563]. **Source:** CUI MIAN SHUI QIE *Withania somnifera*, CUI MIAN SHUI QIE *Withania somnifera* (root), CUI MIAN SHUI QIE *Withania somnifera* (leaf), SHUI QIE *Solanum torvum*. **Ref:** 5, 2563, 4198, 5329.

**22701 Withanicandrin**

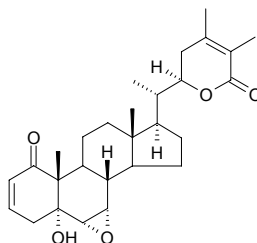
[39262-28-7] $C_{28}H_{36}O_6$ (468.60). mp 267–269°C. **Source:** JIA SUAN JIANG *Nicandra physaloides*. **Ref:** 6.

**22702 Withanolide A**

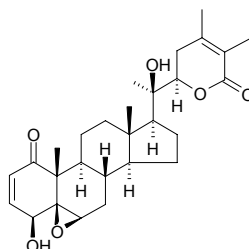
$C_{28}H_{38}O_6$ (470.61). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 $\mu\text{mol/L}$)^[4198]. **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root, leaf), GOU QI YE *Lycium chinense*, NING GU SHUI QIE *Withania coagulans*. **Ref:** 660, 4198, 5329.

**22703 Withanolide B**

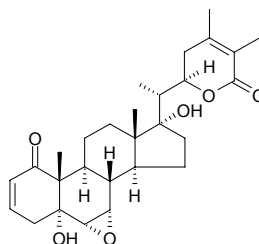
$C_{28}H_{38}O_5$ (454.61). **Source:** GOU QI YE *Lycium chinense*. **Ref:** 660.

**22704 Withanolide D**

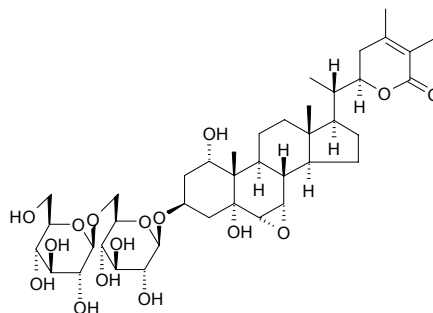
[30655-48-2] $C_{28}H_{38}O_6$ (470.61). mp 253–255°C. **Pharm:** Antibacterial (gram-positive bacteria); antineoplastic (S_{180} , 40 mg/mL). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root), SHUI QIE *Solanum torvum*. **Ref:** 5, 658, 4198.

**22705 Withanone**

$C_{28}H_{36}O_6$ (470.61). **Pharm:** Cytotoxic (mouse mammary organ culture assay, 69% at 10 $\mu\text{g/mL}$)^[5038]. **Source:** CUI MIAN SHUI QIE *Withania somnifera* (leaf), FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038, 5329.

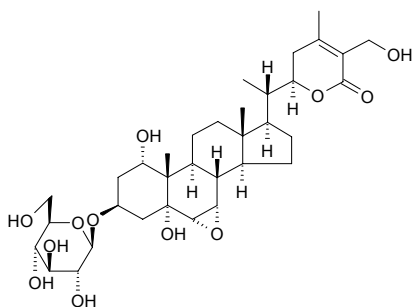
**22706 Withanoside II**

$C_{40}H_{62}O_{16}$ (798.93). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

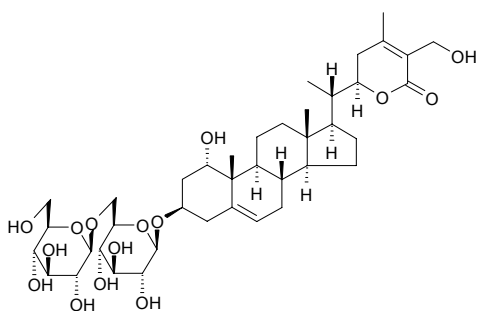


22707 Withanoside III

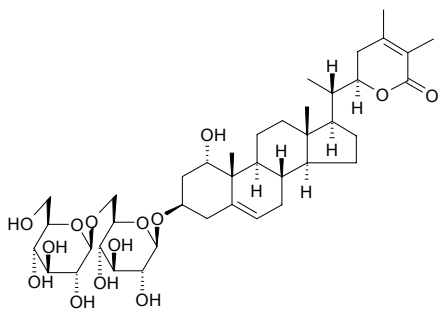
$C_{34}H_{52}O_{12}$ (652.79). Source: CUI MIAN SHUI QIE *Withania somnifera* (root).
Ref: 4198.

**22708 Withanoside IV**

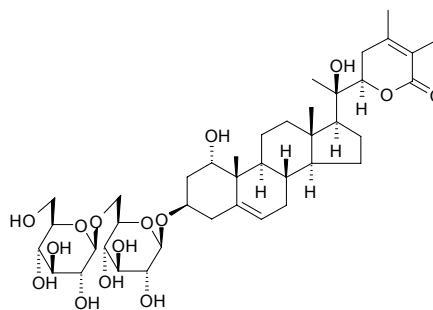
$C_{40}H_{62}O_{15}$ (782.93). Pharm: Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 $\mu\text{mol/L}$). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22709 Withanoside V**

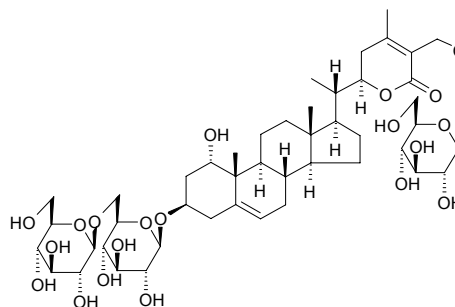
$C_{40}H_{62}O_{14}$ (766.93). Source: CUI MIAN SHUI QIE *Withania somnifera* (root).
Ref: 4198.

**22710 Withanoside VI**

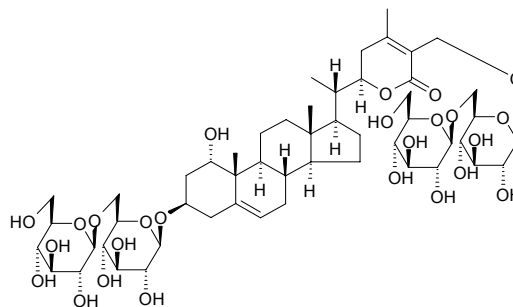
$C_{40}H_{62}O_{15}$ (782.93). Pharm: Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 $\mu\text{mol/L}$). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22711 Withanoside VIII**

27-*O*- β -*D*-Glucopyranosylpubesenolide 3-*O*- β -*D*-glucopyranosyl (1 \rightarrow 6) β -*D*-glucopyranoside $C_{46}H_{72}O_{20}$ (945.07). Amorphous powder, $[\alpha]_D^{23} = +10.4^\circ$ ($c = 0.264$, MeOH). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

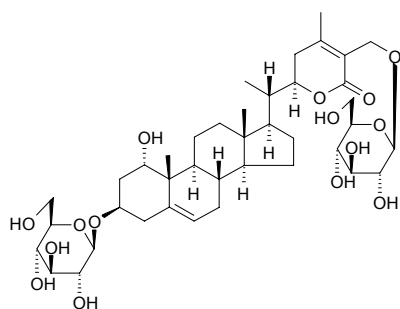
**22712 Withanoside IX**

27-*O*- β -*D*-Glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranosylpubesenolide 3-*O*- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranoside $C_{52}H_{82}O_{25}$ (1107.22). Amorphous powder, $[\alpha]_D^{23} = +16.7^\circ$ ($c = 0.096$, MeOH). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

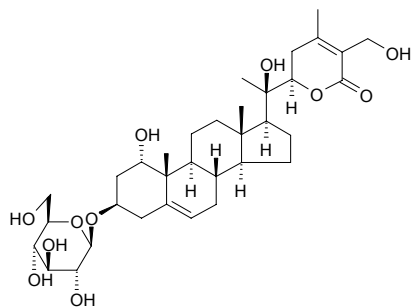


22713 Withanoside X

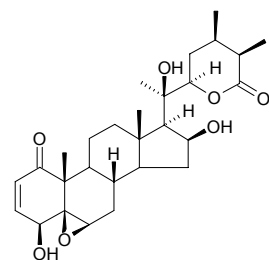
27-*O*- β -D-Glucopyranosylpubesanolide 3-*O*- β -D-glucopyranoside C₄₀H₆₂O₁₅ (782.93). Amorphous powder, $[\alpha]_D^{23} = +21.1^\circ$ ($c = 0.11$, MeOH). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

**22714 Withanoside XI**

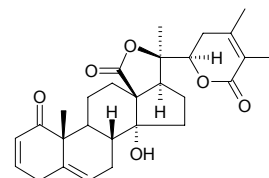
(20*R*,22*R*)-1 α ,3 β ,20,27-Tetrahydroxywitha-5,24-dienolide 3-*O*- β -D-glucopyranoside C₃₄H₅₂O₁₁ (636.79). Amorphous powder, $[\alpha]_D^{23} = +18.8^\circ$ ($c = 0.101$, MeOH). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

**22715 Withaphysacarpin**

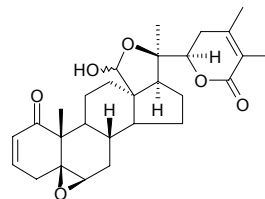
C₂₈H₄₀O₇ (488.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells, IC₅₀ = 0.015 μ g/mL); cytotoxic (soft agar transformation assay with JB6 cells, IC₅₀ = 0.020 μ g/mL); cytotoxic (mouse mammary organ culture assay, 88% at 10 μ g/mL). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**22716 Withaphysalin A**

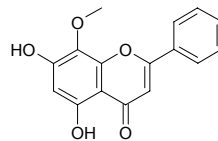
[57423-72-0] C₂₈H₃₄O₆ (466.58). **Source:** TIAN PAO ZI *Physalis minima*. **Ref:** 6.

**22717 Withaphysalin B**

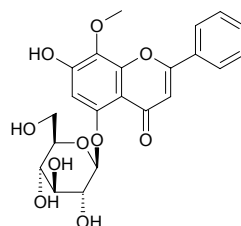
[57423-73-1] C₂₈H₃₆O₆ (468.60). **Source:** TIAN PAO ZI *Physalis minima*. **Ref:** 6.

**22718 Wogonin**

[632-85-9] C₁₆H₁₂O₅ (284.27). mp 203°C. **Pharm:** Antineoplastic; antispasmodic (mus intestine, *in vitro*); diuretic; estrogenic activity (rat); cytotoxic (hmn peripheral blood T cells, dose = 2.0 μ g/mL, T cell survival rate = 69%)^[3498]; immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0 μ g/mL, InRt = 77%)^[3498]; anti-inflammatory (modulator of cytokine network: increases TNF- α level in RAW264.7 cells)^[4416]; anti-inflammatory (hmn retinal pigment epithelial cell lines, IL-6 and IL-8 blocker, blocking production and expression of IL-6 and IL-8, IC₅₀ = 1~40 μ mol/L)^[4416]; anti-inflammatory (hmn platelets 12-LOX inhibitor, without affecting level of cyclooxygenase; macrophages, COX-2 inhibitor, inhibits COX-2 expression)^[4415]; anti-inflammatory (NO production inhibitor)^[4415]; hypolipidemic; antioxidant; cytotoxic (KU-1 hmn bladder cancer cell line, EJ-1 hmn bladder cancer cell line, MBT-2 murine bladder cancer cell line, inhibits cell proliferation *in vitro* in a dose-dependent manner, less active than baicalin)^[5369]; cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)^[5369]; xanthine oxidase inhibitor (strong action, indicating that it might be useful for the remission of brain tumors, since xanthine oxidase serum levels are increased in tissues of brain tumors)^[5369]; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC₅₀ > 60 μ mol/L)^[5369]. **Source:** BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], CHUAN HUANG QIN *Scutellaria hypericifolia*, DIAN HUANG QIN *Scutellaria amoena*, GAN SU HUANG QIN *Scutellaria rehderiana*, HONG CHAI HU *Bupleurum scorzoniferolium* (root), HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 10 samples = 0.04%~2.59%, mean content = 0.66%^[5508]), LI JIANG HUANG QIN *Scutellaria likiangensis*, SHAN TENG *Anodendron affine*, YIN CHAI HU *Stellaria dichotoma* var. *lanceolata*, NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 658, 660, 3498, 4415, 4416, 5369, 5501, 5508.

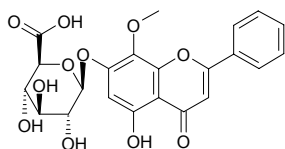
**22719 Wogonin 5- β -D-glucoside**

C₂₂H₂₂O₁₀ (446.41). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 660.

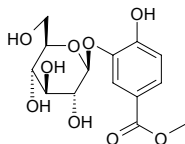


22720 Wogonoside

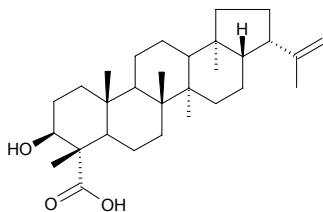
Wogonin-7-*O*-glucuronide [51059-44-0] C₂₂H₂₀O₁₁ (460.40). Yellow needles (MeOH), mp 228–229°C. **Pharm:** cAMP phosphodiesterase inhibitor (IC₅₀ = 42 μmol/L); antihistamine (rat, inhibits histamine release in peritoneum giant cell, IC₅₀ = 140 μmol/L); liver sialidase inhibitor (mus, 10 μg/mL, InRt = 12.6%); anti-inflammatory (mus, swollen foot model caused by carrageenan, inhibits leucocyte aggregation in inflammatory exudate); cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)^[5369]; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC₅₀ > 60 μmol/L)^[5369]. **Source:** LIAN QIAO *Forsythia suspensa*, CHUAN HUANG QIN *Scutellaria hypericifolia*, DIAN HUANG QIN *Scutellaria amoena*, HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 10 samples = 1.07%~3.24%, mean content = 2.34%^[5508]), NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 660, 1652, 1654, 1655, 1656, 2509, 5369, 5508.

**22721 Woodorien**

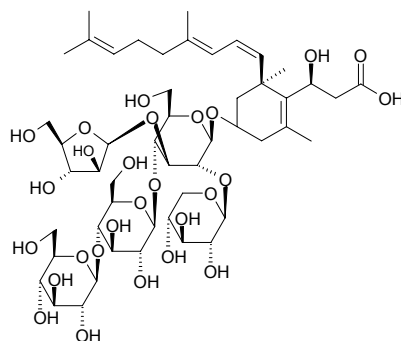
[155112-92-8] C₁₄H₁₈O₉ (330.29). Gray-white amorphous powder, [α]_D = -2° (c = 0.15, ethanol). **Pharm:** Antiviral (HSV-1, 100 μg/mL). **Source:** DONG FANG GOU JI *Woodwardia orientalis*. **Ref:** 964.

**22722 Woodwardic acid**

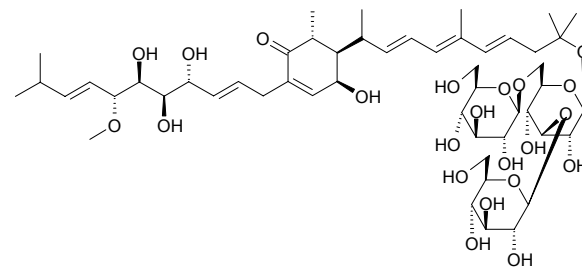
[32214-81-6] C₃₀H₄₈O₃ (456.72). mp 273–274°C (dec). **Source:** DONG FANG GOU JI *Woodwardia orientalis*. **Ref:** 6.

**22723 Woodwardinoside**

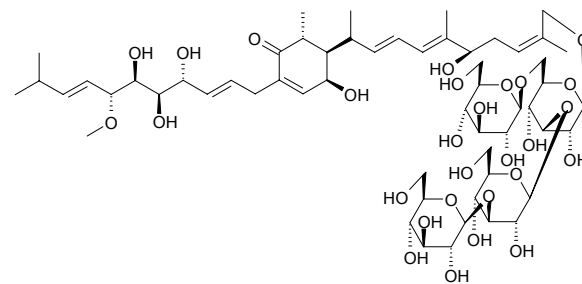
(4'*R*)-4'-*O*-[β-*D*-Glucopyranosyl-(1→4)]-β-*D*-arabinofuranosyl-(1→3)-β-*D*-glucopyranosyl-(1→4)]-[β-*D*-xylopyranosyl-(1→2)]-β-*D*-glucopyranosyl-1-4-woodwardine C₅₀H₈₀O₂₇ (1113.18). Colorless powder, [α]_D²³ = -42.0°. **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3415.

**22724 woodwardinoside B**

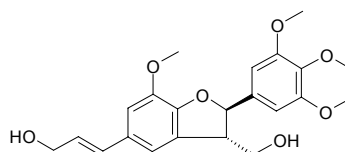
9-*O*-β-*D*-Glucopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→6)]-β-*D*-Glucopyranoside C₅₁H₈₂O₂₂ (1047.21). Colorless powder, [α]_D²³ = -85.0° (c = 0.10, MeOH). **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3425.

**22725 Woodwardinoside C**

10'-*O*-[β-*D*-Glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl-(1→3)-β-*D*-glucopyranosyl-(1→3)-β-*D*-glucopyranoside C₅₇H₉₂O₂₈ (1225.35). Colorless powder, [α]_D²³ = -142.0° (c = 0.09, MeOH). **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3425.

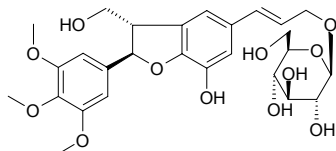
**22726 Woorenogenin**

[166990-13-2] C₂₂H₂₆O₇ (462.45). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 5506.

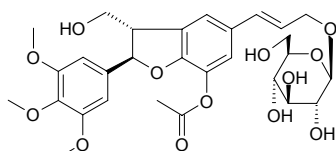


22727 Woorenoside I

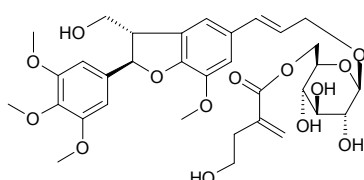
$C_{27}H_{34}O_{12}$ (550.56). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- α production by LPS-stimulated RAW264.7 macrophages, IC_{50} = 15–60 μ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22728 Woorenoside II**

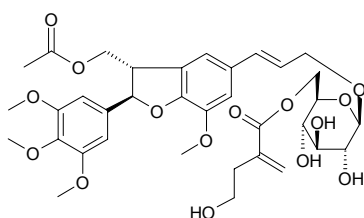
$C_{29}H_{36}O_{13}$ (592.60). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- α production by LPS-stimulated RAW264.7 macrophages, IC_{50} = 15–60 μ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22729 Woorenoside III**

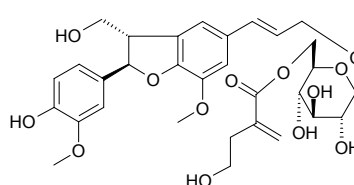
$C_{33}H_{42}O_{14}$ (662.69). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- α production by LPS-stimulated RAW264.7 macrophages, IC_{50} = 15–60 μ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22730 Woorenoside IV**

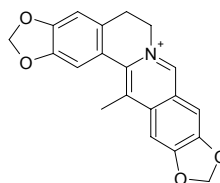
[166990-17-6] $C_{35}H_{44}O_{15}$ (704.73). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- α production by LPS-stimulated RAW264.7 macrophages, IC_{50} = 15–60 μ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22731 Woorenoside V**

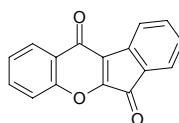
$C_{31}H_{38}O_{13}$ (618.64). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- α production by LPS-stimulated RAW264.7 macrophages, IC_{50} = 15–60 μ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22732 Worenine**

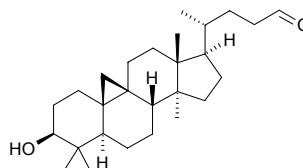
Corysamine [38763-29-0] $C_{20}H_{16}NO_4^+$ (334.35). mp 212–213°C. **Source:** BAI QU CAI *Chelidonium majus*, JU HUA HUANG LIAN *Corydalis pallida*, ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 2, 6, 1521.

**22733 Wrightiadione**

[148180-61-4] $C_{16}H_8O_3$ (248.24). mp 228–230°C, $[\alpha]_D = 0^\circ$ ($c = 0.1$, chloroform). **Pharm:** Antineoplastic (EAC, S_{180} , HCS, ARS, and P_{388} , $p < 0.05$). **Source:** YAN MU *Wrightia tomentosa*. **Ref:** 1107.

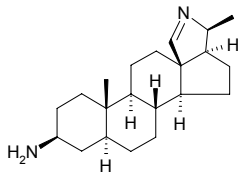
**22734 Wrightial**

$C_{27}H_{44}O_2$ (400.65). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 5019.

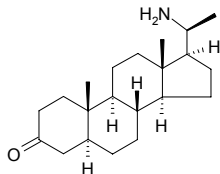


22735 Wrightiamine A

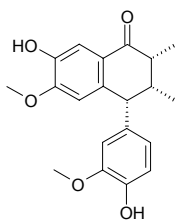
$C_{21}H_{34}N_2$ (314.52). Colorless amorphous solid, $[\alpha]_D^{25} = -14^\circ$ ($c = 0.2$, MeOH). **Pharm:** Cytotoxic (VCR-resistant murine leukemia P₃₈₈ cells, IC₅₀ in presence of VCR 12.5ng/mL = 2.0μg/mL, IC₅₀ in absence of VCR = 3.1μg/mL). **Source:** ZHAO WA DAO DIAO BI *Wrightia javanica* (leaf). **Ref:** 4352.

**22736 Wrightiamine B**

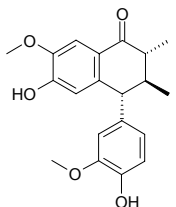
$C_{21}H_{35}NO$ (317.52). Colorless amorphous solid, $[\alpha]_D^{25} = +5^\circ$ ($c = 0.04$, MeOH). **Pharm:** Cytotoxic (VCR-resistant murine leukemia P₃₈₈ cells, IC₅₀ in presence of VCR 12.5ng/mL = 22μg/mL, IC₅₀ in absence of VCR = 25μg/mL). **Source:** ZHAO WA DAO DIAO BI *Wrightia javanica* (leaf). **Ref:** 4352.

**22737 Wulignan A₁**

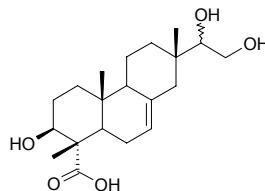
$C_{20}H_{22}O_5$ (342.40). **Source:** YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660.

**22738 Wulignan A₂**

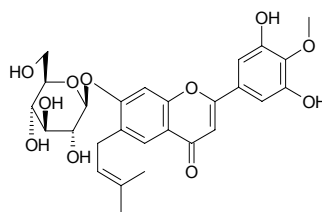
$C_{20}H_{22}O_5$ (342.40). **Source:** YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660.

**22739 Wulingzhiic acid**

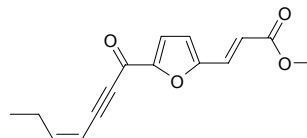
3β,15ζ,16-Trihydroxy isopimaric acid $C_{20}H_{32}O_5$ (352.48). **Source:** WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. **Ref:** 660.

**22740 Wushanicariin**

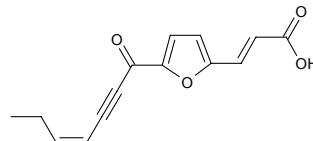
$C_{27}H_{30}O_{11}$ (530.53). Yellow acicular crystals, easily soluble in pyridine; soluble in ethanol, methanol, acetone; slightly soluble in chloroform, mp 252°C. **Source:** WU SHAN YIN YANG HUO *Epimedium wushanense*, YIN YANG HUO *Epimedium brevicornum*. **Ref:** 92, 623.

**22741 Wyerone**

[20079-30-5] $C_{15}H_{14}O_4$ (258.28). **Pharm:** Antifungal (plant antitoxin). **Source:** CAN DOU *Vicia faba*, BING DOU *Lens culinaris*. **Ref:** 658.

**22742 Wyerone acid**

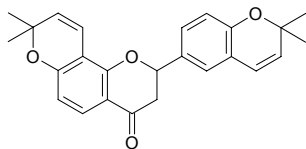
[54954-14-2] $C_{14}H_{12}O_4$ (244.25). **Pharm:** Antifungal (plant antitoxin). **Source:** CAN DOU *Vicia faba*. **Ref:** 658.



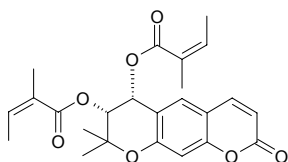
X

22743 Xambioona

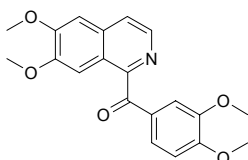
$C_{25}H_{24}O_4$ (388.47). Source: *Glycyrrhiza* sp. Ref: 2431.

**22744 Xanthalin**

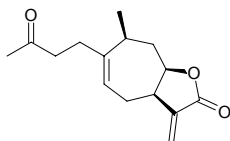
[21800-48-6] $C_{24}H_{26}O_7$ (426.47). White powder, mp 110~112°C, $[\alpha]_D = -163^\circ$ (EtOH). Source: MO GUO QIN *Sphallerocarpus gracilis*. Ref: 2500.

**22745 Xanthaline**

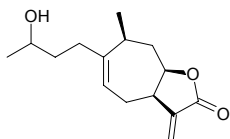
Papaveraldine [522-57-6] $C_{20}H_{19}NO_5$ (353.38). mp 210°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

**22746 Xanthalongin**

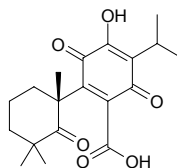
$C_{15}H_{20}O_3$ (248.32). Source: JIN FEI CAO *Inula japonica*. Ref: 1521, 5422.

**22747 4H-Xanthalongin**

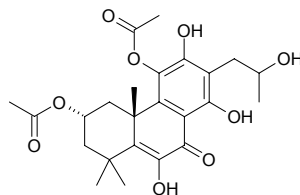
$C_{15}H_{22}O_3$ (250.34). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

**22748 Xanthanthusin E**

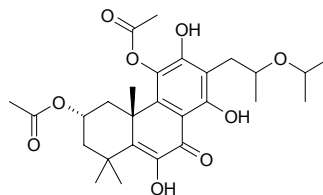
$C_{19}H_{24}O_6$ (348.4). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 34.3\mu\text{g/mL}$; control Mitoxanthrone, $IC_{50} = 2\mu\text{g/mL}$). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00023%dw). Ref: 4625.

**22749 Xanthanthusin F**

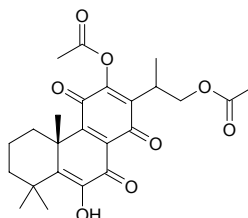
17-(15→16)-Abeo-2 α ,11-diacetoxy-6,12,14,16-tetrahydroxyabieta-5,8,11,13-tetraen-7-one $C_{24}H_{30}O_9$ (462.6). Yellow amorphous powder, $[\alpha]_D^{25.8} = +39.4^\circ$ ($c = 0.40$, $CHCl_3$). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00013%dw). Ref: 4625.

**22750 Xanthanthusin G**

17-(15→6)-Abeo-2 α ,11-diacetoxy-16-*O*-isopropyl-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one $C_{27}H_{36}O_9$ (504.58). Yellow amorphous powder, $[\alpha]_D^{25.7} = +35.0^\circ$ ($c = 0.35$, $CHCl_3$). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00005%dw). Ref: 4625.

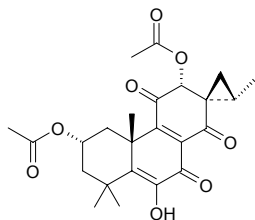
**22751 Xanthanthusin H**

12,16-Diacetoxy-6-hydroxyabieta-5,8,12-trien-7,11,14-trione $C_{24}H_{28}O_8$ (444.49). Yellow amorphous powder, $[\alpha]_D^{25.7} = -135.0^\circ$ ($c = 0.10$, $CHCl_3$). Pharm: Cytotoxic (*in vitro*, K562, $IC_{50} = 12.9\mu\text{g/mL}$; control Mitoxanthrone, $IC_{50} = 2\mu\text{g/mL}$). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00035%dw). Ref: 4625.

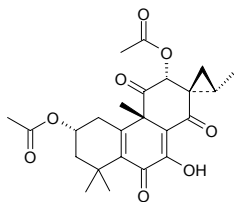


22752 Xanthanthusin I

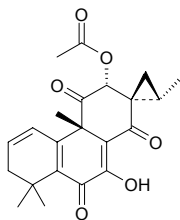
(13*S*,15*S*)-2 α ,12 α -Diacetoxy-6-hydroxy-13,16-cycloabieta-5,8-dien-7,11,14-trione C₂₄H₂₈O₈ (444.49). Yellow amorphous powder, [α]_D^{24.8} = -49.5° (*c* = 0.46, CHCl₃). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.0031%dw). **Ref:** 4625.

**22753 Xanthanthusin J**

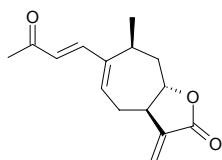
(9*S*,13*S*,15*S*)-20-(10 \rightarrow 9)-abeo-2 α ,12 α -Diacetoxy-7-hydroxy-13,16-cycloabiet a-5(10),7-dien-6,11,14-trione C₂₄H₂₈O₈ (444.49). Yellow amorphous powder, [α]_D^{13.6} = +261.3° (*c* = 0.35, CHCl₃). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00043%dw). **Ref:** 4625.

**22754 Xanthanthusin K**

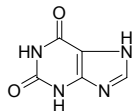
(9*S*,13*S*,15*S*)-20-(10 \rightarrow 9)-Abeo-12 α -acetoxy-7-hydroxy-13,16-cycloabieta-1,5(10),7-trien-6,11,14-trione C₂₂H₂₄O₆ (384.43). Yellow amorphous powder, [α]_D^{13.6} = +261.9° (*c* = 0.44, CHCl₃). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00020%dw). **Ref:** 4625.

**22755 Xanthatin**

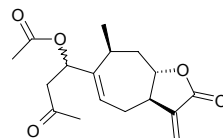
[26791-73-1] C₁₅H₁₈O₃ (246.31). **Pharm:** Antibacterial; antifungal; insect larva growth inhibitor. **Source:** BIN XI FA NI YA CANG ER *Xanthium pennsylvanicum*, CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], XIAO XI CANG ER *Xanthium riparium*, *Xanthium* sp. **Ref:** 658.

**22756 Xanthine**

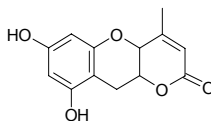
3,7-Dihydropurine-2,6-dione [69-89-6] C₅H₄N₄O₂ (152.11). mp > 150°C (dec). **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], QIU YIN *Pheretima aspergillum*, *Allolobophora caliginosa trapezoides*, XIA TIAN GAO *Bos taurus domesticus*. **Ref:** 6.

**22757 Xanthinin**

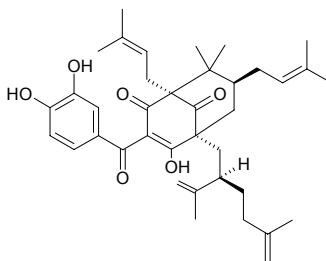
[580-49-4] C₁₇H₂₂O₅ (306.36). mp 121~122°C. **Pharm:** Phytohormone active against auxin. **Source:** CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], DONG FANG CANG ER *Xanthium orientale*, PU TONG CANG ER *Xanthium commune*. **Ref:** 6, 658.

**22758 Xanthocerin**

C₁₃H₁₂O₅ (248.24). Colorless acicular crystals, mp 262~264°C. **Source:** WEN GUAN MU *Xanthoceras sorbifolia*. **Ref:** 842.

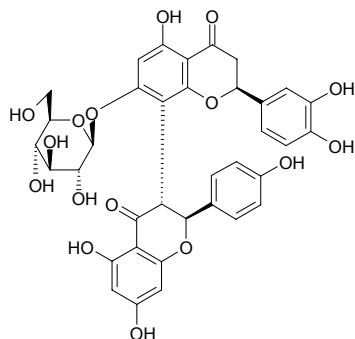
**22759 Xanthochymol**

[52617-32-0] C₃₈H₅₀O₆ (602.82). **Pharm:** antioxidant (DPPH radical scavenger, 10 μ mol/L, ScRt = 61%, IC₅₀ = 8.50 μ mol/L; control BHT, 10 μ mol/L, ScRt = 43%, IC₅₀ = 19.00 μ mol/L)^[4422]; antibacterial (*Staphylococcus aureus*, penicillin-sensitive strain ATCC 25923, MIC = 8 μ g/mL; Methicillin-resistant strain MRSA SK1, MIC = 8 μ g/mL)^[4422]. **Source:** DA YE TENG HUANG *Garcinia xanthochymus*, LUAN YE TENG HUANG *Garcinia ovalifolia*, MAN TENG HUANG *Garcinia mannii*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 658, 660, 4422.

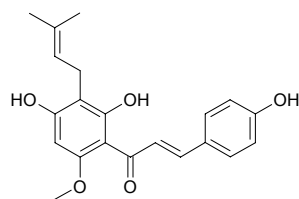


22760 Xanthochymusside

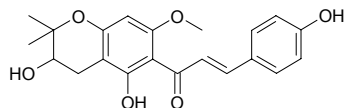
[31654-49-6] C₃₆H₃₂O₁₆ (720.65). mp 219°C. **Pharm:** Antioxidant (DPPH radical scavenger, 10 μmol/L, ScRt = 36%; control BHT, 10 μmol/L, ScRt = 43%, IC₅₀ = 19.00 μmol/L)^[4422]. **Source:** SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 6, 1521, 4422.

**22761 Xanthohumol**

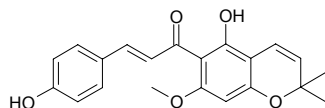
[569-83-5] C₂₁H₂₂O₅ (354.41). mp 172°C. **Pharm:** Cytotoxic (inhibits cellular hyperplasia of mammary cancer, colon cancer and ovary cancer A-2780); anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC₅₀ = 8.3 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)^[4795]. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], PI JIU HUA *Humulus lupulus* (strobile)^[4789,4795]. **Ref:** 6, 1582, 4789, 4795.

**22762 Xanthohumol B**

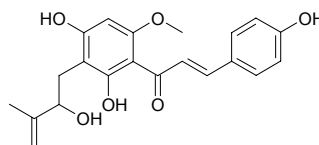
C₂₁H₂₂O₆ (370.41). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC₅₀ = 5.6 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)^[4795]. **Source:** PI JIU HUA *Humulus lupulus* (strobile)^[4789,4795]. **Ref:** 4789, 4795.

**22763 Xanthohumol C**

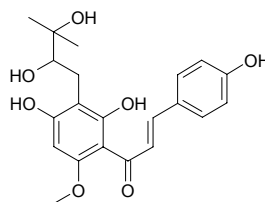
C₂₁H₂₀O₅ (352.39). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

**22764 Xanthohumol D**

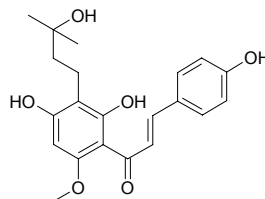
C₂₁H₂₂O₆ (370.41). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC₅₀ = 9.4 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)^[4795]. **Source:** PI JIU HUA *Humulus lupulus* (strobile)^[4789,4795]. **Ref:** 4789, 4795.

**22765 Xanthohumol G**

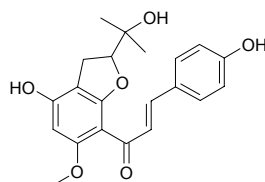
±{(2*E*)-1-[2,4-Dihydroxy-3-(2,3-dihydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one} C₂₁H₂₄O₇ (388.42). Yellow-orange powder. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

**22766 Xanthohumol H**

(2*E*)-1-[2,4-Dihydroxy-3-(3-hydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one C₂₁H₂₄O₆ (372.42). Yellow-orange solid. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

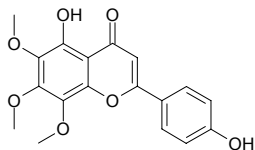
**22767 Xanthohumol I**

(2*E*)-1-[2,3-Dihydro-4-hydroxy-2-(1-hydroxy-1-methylethyl)-6-methoxy-5-benzofuranyl]-3-(4-hydroxyphenyl)-2-propen-1-one; XH-I C₂₁H₂₂O₆ (370.41). Orange powder. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

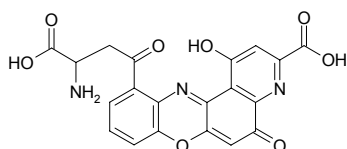


22768 Xanthomicrol

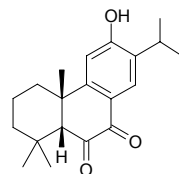
[16545-23-6] C₁₈H₁₆O₇ (344.32). mp 227~230°C. **Pharm:** Cytotoxic (KB, ED₅₀ = 0.7~100µg/mL); antineoplastic (Friend virus leukemia, T/C < 140%); antispasmodic; antifungal (solanum-shape *Fusarium*, *Aspergillus parasiticus*, *Oidium tropioale*). **Source:** LA BO HE *Mentha piperita*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], SU DA QI GAN JU *Citrus sudachii*, *Baccharis* spp., *Sideritis* spp., *Thymus* spp. **Ref:** 6, 1767, 1769, 1770, 1521.

**22769 Xanthomatin**

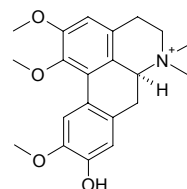
[521-58-4] C₂₀H₁₃N₃O₈ (423.32). **Source:** YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**22770 Xanthoperol**

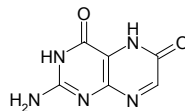
[564-23-8] C₂₀H₂₆O₃ (314.43). mp (+) 255~270°C (dec). **Source:** DU SONG SHI *Juniperus rigida*. **Ref:** 6.

**22771 Xanthoplanine**

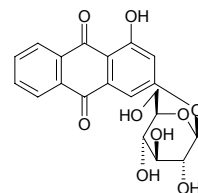
[6872-88-4] C₂₁H₂₆NO₄⁺ (356.45). **Source:** ZHU YE JIAO *Zanthoxylum planispinum*, ZHU YE JIAO GEN *Zanthoxylum planispinum*, MA WEI LIAN *Thalictrum foliolosum*. **Ref:** 6, 660.

**22772 Xanthopterin**

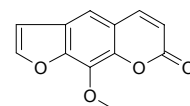
[119-44-8] C₆H₅N₅O₂ (179.14). mp > 410°C, (> 360°C, carbonization). **Source:** JIN YU *Carassius auratus*. **Ref:** 6.

**22773 Xanthopurpurin-3-O-β-D-glucoside**

1,3-Dihydroxy-9,10-anthraquinone 3-O-β-D-glucoside C₂₀H₁₈O₉ (402.36). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660.

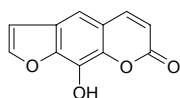
**22774 Xanthotoxin**

8-Methoxyxpsoralen [298-81-7] C₁₂H₈O₄ (216.20). mp 148°C. **Pharm:** Antibacterial (broad spectrum, hmn *Mycobacterium tuberculosis*, EC = 100µg/mL, enhances antibacterial action of phage by over 100 times); photosensitizer; antispasmodic; piscicide; cytotoxic (24h: HL-60, IC₅₀ > 50µg/mL, control Adriamycin IC₅₀ < 0.10µg/mL; P₃₈₈, IC₅₀ = 50µg/mL, Adriamycin IC₅₀ < 0.10µg/mL; CoLo205, IC₅₀ = 35.3µg/mL, Adriamycin IC₅₀ = 0.63µg/mL; HeLa, IC₅₀ > 50µg/mL, Adriamycin IC₅₀ = 0.15µg/mL)^[5486]; AChE inhibitor (*in vitro*, IC₅₀ = 54µmol/L)^[3058]; LD₅₀ (mus, orl) ≥ 1000mg/kg, (rat, orl) ≥ 4000mg/kg, (rat, im) = 160mg/kg, (rat, ip) = 470mg/kg. **Source:** AO PA CAO *Oppopanax chironium* (root), BAI HUA QIAN HU *Peucedanum praeruptorum* (root: mean content = 0.0105%)^[5508], BU GU ZHI *Psoralea corylifolia*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058], DA A MI *Ammi majus*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], HANG BAI ZHI *Angelica taiwaniana*, NIU FANG FENG *Heracleum sphondylium*, OU FANG FENG *Pastinaca sativa*, SHE CHUANG ZI *Cnidium monnieri* (fruit), SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 26 origins = 0.129%)^[5508], YAO YONG DANG GUI *Angelica officinalis*, YUAN DANG GUI *Angelica archangelica*, YUN NAN QIANG HUO *Pleurospermum rivulorum*, *Niphogeton ternata*, *Fagara* sp., *Ruta* sp. **Ref:** 5, 558, 658, 3058, 4156, 4071, 5486, 5501, 5508.

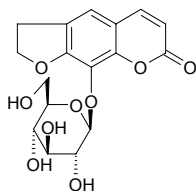


22775 Xanthotoxol

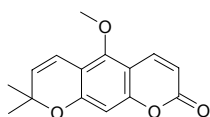
[2009-24-7] C₁₁H₆O₄ (202.17). mp 251~252°C. **Pharm:** Cytotoxic (HeLa); antioxidant (DPPH scavenger, EC₅₀ = 25.7 μg/mL = 192 μmol/L, control Ascorbic acid, EC₅₀ = 1.6 μg/mL = 9.1 μmol/L)^[4154]; NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100 μmol/L, InRt = (45.1±4.0)%, control L-NMMA, 100 μmol/L, InRt = (79.2±0.9)%)^[4454]. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part), FEN CHA DANG GUI *Angelica furcijuga* (flower), GOU JU *Poncirus trifoliata*, HANG BAI ZHI *Angelica taiwaniana*, OU FANG FENG *Pastinaca sativa*, QIANG HUO *Notopterygium incisum*, SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 4 samples = 0.015%)^[5508], YA ZHOU DU HUO *Heracleum lanatum* var. *asiaticum*, YUAN DANG GUI *Angelica archangelica*, YUN NAN QIANG HUO *Pleurospermum rivulorum*, YUN QIAN HU *Peucedanum rubricaulis*. **Ref:** 2, 177, 325, 507, 558, 658, 660, 4154, 4454, 5508.

**22776 Xanthotoxol 8-O-β-D-glucopyranoside**

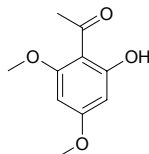
C₁₇H₁₆O₉ (366.33). Amorphous powder, [α]_D²² = -24°. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit). **Ref:** 3525.

**22777 Xanthoxyletin**

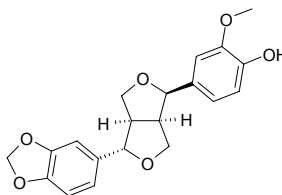
Xanthoxylin N [84-99-1] C₁₅H₁₄O₄ (258.28). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 mol ratio/32 pmol TPA, EBV-EA-positive cells = (44.6±1.3)% (viability > 80%); β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%); Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); IC₅₀ = 463 mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400 mol ratio/32 pmol TPA, Curcumin IC₅₀ = 341 mol ratio/32 pmol TPA)^[5048]; cytotoxic (inhibits biosynthesis of NDA by means of blocking thymidine to go into leukemia cell HL-60); antibacterial inactive (*Mycobacterium tuberculosis*, control Isoniazide, MIC = (0.040~0.090) μg/mL, Kanamycin sulfate, MIC = 2.0~5.0 μg/mL)^[5367]; antifungal inactive (*Candida albicans*, control Amphotericin, IC₅₀ = 0.01 μg/mL)^[5367]. **Source:** CHENG ZI *Citrus junos*, SHAN HUANG PI *Clausena excavata*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], *Citrus tamarana*, *Citrus hassaku*. **Ref:** 703, 2176, 5048, 5367.

**22778 Xanthoxylin**

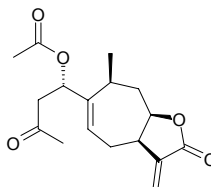
Phloracetophenone [90-24-4] C₁₀H₁₂O₄ (196.20). **Pharm:** Cytotoxic (EAC); prostaglandin biosynthetase inhibitor; 5-lipoxygenase inhibitor. **Source:** AI NA XIANG *Blumea balsamifera*, DUAN YE JUAN HAO *Artemisia brevifolia*, MA FENG MU *Hippomane mancinella*, WU JIU MU GEN PI *Sapium sebiferum*. **Ref:** 6, 658.

**22779 Xanthoxylol**

[54983-95-8] C₂₀H₂₀O₆ (356.38). Crystals, mp 140~142°C, [α]_D = -117° (CHCl₃). **Pharm:** Cancer-preventing activity. **Source:** HU JIAO HUA JIAO *Zanthoxylum piperitum*, QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.00073% dw)^[4712], occurs in many human foods. **Ref:** 1521, 1582, 4712.

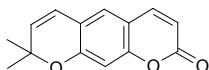
**22780 Xanthumin**

[26791-72-0] C₁₇H₂₂O₅ (306.36). mp 101°C (ether-chloroform), 97.0~98.5 °C (ether). **Pharm:** Insect antifeedant. **Source:** CAI SI CANG ER *Xanthium chasei*, CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], XI FANG CANG ER *Xanthium occidentale*, ZHONG GUO CANG ER *Xanthium chinense*. **Ref:** 6, 658.

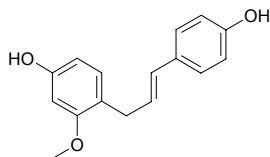


22781 Xanthyletin

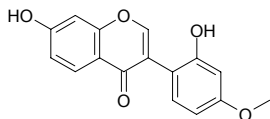
[553-19-5] $C_{14}H_{12}O_3$ (228.25). mp 131.5°C, bp 140–145°C/0.1 mmHg. **Pharm:** Antibacterial; antispasmodic; phyto-growth inhibitor (100 µg/mL, *Amaranthus hypochondriacus*, InRt = (0.0±0.0)%, $p < 0.05$; *E. crusgalli*, InRt = (69.7±2.1)%, $p < 0.05$)^[5253]; cytotoxic (*in vitro*, A549, ED₅₀ = 79.8 µg/mL, control Adriamycin, ED₅₀ = 0.0322 µg/mL; MCF7, ED₅₀ = 18.4 µg/mL, Adriamycin, ED₅₀ = 0.0204 µg/mL; HT29, ED₅₀ = 47.4 µg/mL, Adriamycin, ED₅₀ = 0.0421 µg/mL; A498, ED₅₀ = 64.8 µg/mL, Adriamycin, ED₅₀ = 0.00348 µg/mL; PC3, ED₅₀ = 45.2 µg/mL, Adriamycin, ED₅₀ = 0.241 µg/mL; PACA-2, ED₅₀ = 5.5 µg/mL, Adriamycin, ED₅₀ = 0.0120 µg/mL)^[5253]; cytotoxic (HeLa *in vitro*, ID₅₀ = 10 µg/mL); antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 mol ratio/32 pmol TPA, EBV-EA-positive cells = (48.4±1.1)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); IC₅₀ = 479 mol ratio/32 pmol TPA, β-Carotene, IC₅₀ = 400 mol ratio/32 pmol TPA, Curcumin IC₅₀ = 341 mol ratio/32 pmol TPA)^[5048]; AChE inhibitor (*in vitro*, IC₅₀ = 150 µmol/L)^[3058]. **Source:** CHOU CAO *Ruta graveolens*, CHU YE HUA JIAO *Zanthoxylum ailanthoides*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, JIAO GAN *Citrus tankan*, LAI MENG *Citrus aurantifolia*, LI HUA JU *Citrus tachibana*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], NING MENG *Citrus limon*, NING MENG GEN *Citrus limon*, SAN YE TENG JU *Luvunga scandens*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)^[3058], YAN JIAO CAO *Boeninghausenia albiflora*, *Citrus medica* var. *etrog*, *Citrus rugulosa*, *Citrus jambhiri*, *Citrus tamurana*, *Citrus hassaku*, *Stauranthus perforatus* (root). **Ref:** 5, 6, 658, 660, 3058, 5048, 5253.

**22782 Xenognosin A**

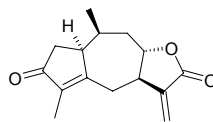
[7690-79-4] $C_{16}H_{16}O_3$ (256.30). **Pharm:** Stress-induced plant metabolite. **Source:** WAN DOU *Pisum sativum*. **Ref:** 658.

**22783 Xenognosin B**

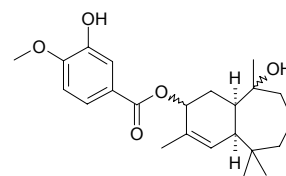
2',7-Dihydroxy-4'-methoxyisoflavone [1890-99-9] $C_{16}H_{12}O_5$ (284.27). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 716.

**22784 Xerantholide**

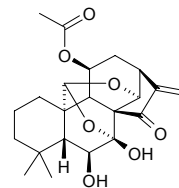
[65017-97-2] $C_{15}H_{18}O_3$ (246.31). mp 175–177°C. **Pharm:** Cytotoxic (HeLa, ID₅₀ = 1.45 µg/mL, KB, ED₅₀ = 1.503 µg/mL); insect antifeedant. **Source:** CHANG TONG HAN HUA *Xeranthemum cylindraceum*. **Ref:** 5, 658.

**22785 Xeroferin**

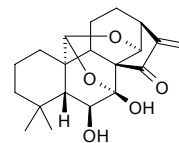
[69184-32-3] $C_{22}H_{30}O_8$ (422.48). Crystals, (acetic ether–cyclohexane), mp 118–120°C. **Source:** *Ferula xeromorpha* **Ref:** 2273.

**22786 Xerophilusin A**

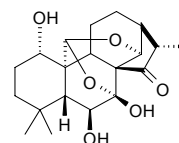
$C_{22}H_{28}O_7$ (404.46). Amorphous powder, $[\alpha]_D^{23.4} = -139.4^\circ$ ($c = 0.57$, MeOH). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.

**22787 Xerophilusin B**

$C_{20}H_{26}O_5$ (346.43). mp 173–174°C, $[\alpha]_D^{22.9} = -150.0^\circ$ ($c = 0.46$, pyridine). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.

**22788 Xerophilusin C**

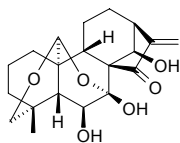
[272459-38-8] $C_{20}H_{28}O_6$ (364.44). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.



22789 Xerophilusin D

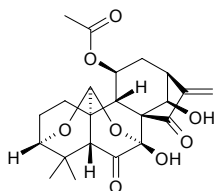
$C_{20}H_{26}O_6$ (362.43). mp 209~210°C, $[\alpha]_D^{23.1} = -120.8^\circ$ ($c = 0.389$, pyridine).

Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22790 Xerophilusin E**

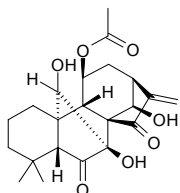
$C_{22}H_{26}O_8$ (418.45). mp 223~225°C, $[\alpha]_D^{20} = -32.0^\circ$ ($c = 0.0625$, MeOH).

Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22791 Xerophilusin F**

$C_{22}H_{28}O_7$ (404.46). mp 193~195°C, $[\alpha]_D^{22.8} = +12.2^\circ$ ($c = 0.308$, pyridine).

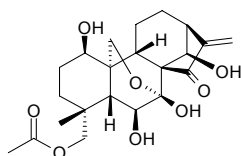
Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22792 Xerophilusin G**

1 β ,6 β ,7 β ,14 β -Tetrahydroxy-19-acetoxy-7 α ,20-epoxy-ent-kaur-16-en-15-one

$C_{22}H_{30}O_8$ (422.48). Colorless acicular crystals (MeOH), mp 216~218°C,

$[\alpha]_D^{22.7} = -116.3^\circ$ ($c = 0.432$, pyridine). Pharm: Cytotoxic (K562, $IC_{50} = 138.84\mu\text{g/mL}$, control Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$; HL-60, $IC_{50} = 3.93\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$)^[5182]. Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus* (leaf). Ref: 894, 4067, 5182.

**22793 Xerophilusin I**

1 β ,6 β ,7 β -Trihydroxy-7 α ,20-epoxy-ent-kaur-16-en-15-one $C_{20}H_{28}O_5$ (348.44).

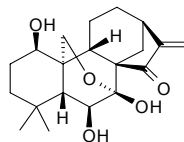
White Amorphous powder, $[\alpha]_D^{22.7} = -146.3^\circ$ ($c = 0.405$, pyridine). Pharm:

Cytotoxic (K562, $IC_{50} = 2.75\mu\text{g/mL}$, control Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$;

HL-60, $IC_{50} = 0.19\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$; MKN28, $IC_{50} =$

$0.07\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.02\mu\text{g/mL}$)^[5182]. Source: HAN SHENG

XIANG CHA CAI *Isodon xerophilus* (leaf). Ref: 894, 4067, 5182.

**22794 Xerophilusin J**

$C_{22}H_{30}O_8$ (422.48). Colorless needles (MeOH), mp 165~166°C, $[\alpha]_D^{23} = -80.7^\circ$

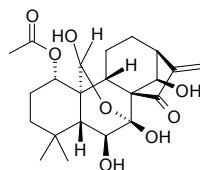
($c = 0.41$, C_5H_5N); mp 165~166°C, $[\alpha]_D^{22.9} = -80.7^\circ$ ($c = 0.409$, pyridine).

Pharm: Cytotoxic (K562, $IC_{50} = 4.26\mu\text{g/mL}$, control Mitoxantrone, $IC_{50} =$

$0.29\mu\text{g/mL}$; HL-60, $IC_{50} = 2.08\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.29\mu\text{g/mL}$;

MKN28, $IC_{50} = 1.54\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.02\mu\text{g/mL}$)^[5182]. Source: HAN

SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067, 5182.

**22795 Xerophilusin K**

$C_{22}H_{30}O_7$ (406.48). Colorless needles (MeOH), mp 189~190°C, $[\alpha]_D^{23} =$

-44.3° ($c = 0.30$, C_5H_5N); mp 189~190°C, $[\alpha]_D^{23} = -44.3^\circ$ ($c = 0.299$,

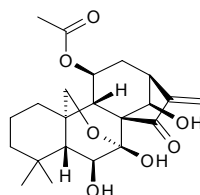
pyridine). Pharm: Cytotoxic (K562, $IC_{50} = 2.95\mu\text{g/mL}$, control Mitoxantrone,

$IC_{50} = 0.29\mu\text{g/mL}$; HL-60, $IC_{50} = 2.29\mu\text{g/mL}$, Mitoxantrone, $IC_{50} =$

$0.29\mu\text{g/mL}$; HCT, $IC_{50} = 15.35\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 1.54\mu\text{g/mL}$;

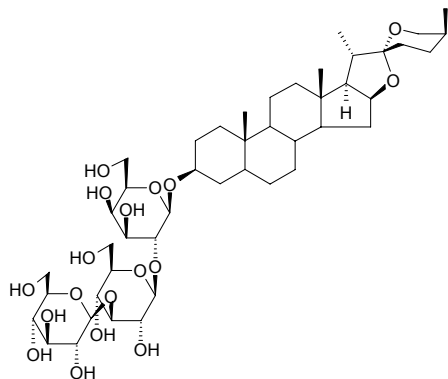
MKN28, $IC_{50} = 2.23\mu\text{g/mL}$, Mitoxantrone, $IC_{50} = 0.02\mu\text{g/mL}$)^[5182]. Source:

HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067, 5182.

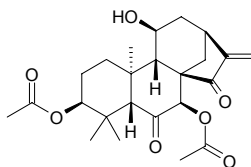


22796 Xilingsaponin B

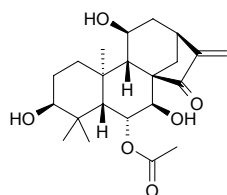
Sarsasapogenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside C₄₅H₇₄O₁₈ (903.08). White amorphous powder crystals, mp 178~180°C (dec), $[\alpha]_D^{20} = -22.96^\circ$ ($c = 0.6$, MeOH). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 679.

**22797 Xindongnin A**

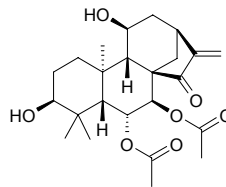
C₂₄H₃₂O₇ (432.52). mp 212~214°C, $[\alpha]_D^{13} = -44.2^\circ$ ($c = 0.86$, C₅H₅N), $[\alpha]_D^{25.7} = -11.8^\circ$ ($c = 0.338$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC₅₀ = 0.9 μ g/mL, control *cis*-Platin IC₅₀ = 1.1 μ g/mL)^[4299,4955]. Source: DONG LING CAO *Rabdosia rubescens*. Ref: 4067, 4299, 4955.

**22798 Xindongnin B**

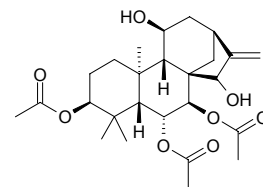
C₂₂H₃₂O₆ (392.50). mp 269~271°C, $[\alpha]_D = -72.5^\circ$ ($c = 0.69$, C₅H₅N), $[\alpha]_D^{25.8} = -67.8^\circ$ ($c = 0.369$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC₅₀ = 1.2 μ g/mL, control *cis*-Platin IC₅₀ = 1.1 μ g/mL)^[4299,4955]; cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC₅₀ = 9.45 μ g/mL, control VCR, IC₅₀ = 0.066 μ g/mL)^[4760]. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0026%dw)^[4760], DONG LING CAO *Rabdosia rubescens*. Ref: 4067, 4299, 4760, 4955.

**22799 Xindongnin C**

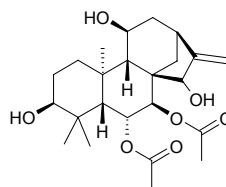
C₂₄H₃₄O₇ (434.53). Colorless crystals (MeOH), mp 304~306°C, $[\alpha]_D^{21.7} = -72.5^\circ$ ($c = 0.401$, acetone). Pharm: Cytotoxic (hmn tumor K562 cells, IC₅₀ = 5.6 μ g/mL, control *cis*-Platin IC₅₀ = 1.1 μ g/mL). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

**22800 Xindongnin D**

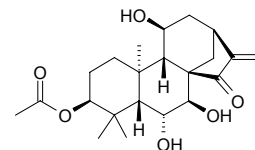
C₂₆H₃₈O₈ (478.59). White amorphous powder, $[\alpha]_D^{22} = -9.26^\circ$ ($c = 0.108$, acetone). Pharm: Cytotoxic inactive (hmn tumor K562 cells). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

**22801 Xindongnin E**

C₂₄H₃₆O₇ (436.55). White amorphous powder, $[\alpha]_D^{24.5} = -3.1^\circ$ ($c = 0.324$, MeOH). Pharm: Cytotoxic inactive (hmn tumor K562 cells). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

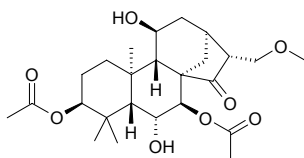
**22802 Xindongnin F**

C₂₂H₃₂O₆ (392.90). White amorphous powder, $[\alpha]_D^{22} = -17.0^\circ$ ($c = 0.470$, MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC₅₀ = 7.3 μ g/mL, control *cis*-Platin, IC₅₀ = 1.1 μ g/mL). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

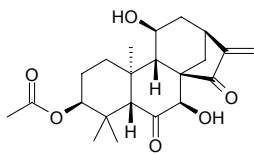


22803 Xindongnin G

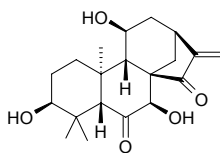
$C_{25}H_{38}O_8$ (466.58). White amorphous powder, $[\alpha]_D^{22.2} = -17.0^\circ$ ($c = 0.470$, MeOH). **Pharm:** Cytotoxic inactive (hmn tumor K562 cells). **Source:** DONG LING CAO *Rabdosia rubescens* (leaf). **Ref:** 4955.

**22804 Xindongnin H**

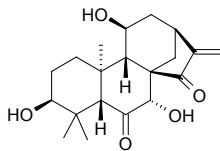
$C_{22}H_{30}O_6$ (390.48). White amorphous powder, $[\alpha]_D^{25} = -11.6^\circ$ ($c = 0.30$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22805 Xindongnin I**

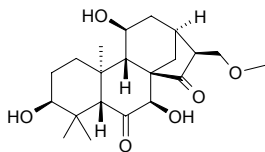
$C_{20}H_{28}O_5$ (348.44). White amorphous powder, $[\alpha]_D^{25} = -51.6^\circ$ ($c = 0.19$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22806 Xindongnin J**

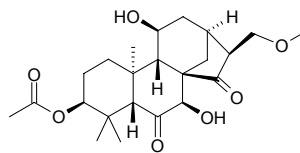
$C_{20}H_{28}O_5$ (348.44). White amorphous powder, $[\alpha]_D^{25} = -54.1^\circ$ ($c = 0.22$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22807 Xindongnin K**

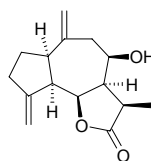
$C_{21}H_{32}O_6$ (380.49). White amorphous powder, $[\alpha]_D^{25} = -30.7^\circ$ ($c = 0.29$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22808 Xindongnin L**

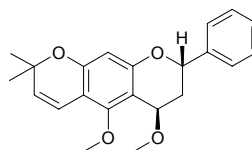
$C_{23}H_{34}O_7$ (422.52). White amorphous powder, $[\alpha]_D^{25} = -11.8^\circ$ ($c = 0.21$, MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22809 Xuelianlactone**

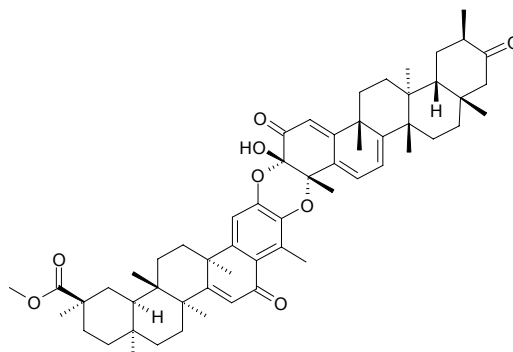
$C_{15}H_{20}O_3$ (248.32). Colorless acicular crystals, mp 129–131°C, $[\alpha]_D = +32.34^\circ$. **Source:** XUE LIAN *Saussurea involucrata*. **Ref:** 62.

**22810 Xuulanin**

4 β ,5-Dimethoxy-6''-dimethyl-2H-pyrano-(2'',3'':7,6)-flavan $C_{22}H_{24}O_4$ (352.43). Yellow oil. **Source:** *Lonchocarpus xuul* (stem cortex). **Ref:** 3973.

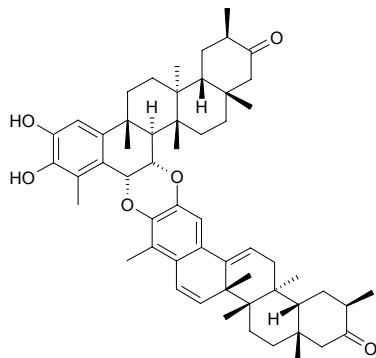
**22811 Xuxuarine Fa**

$C_{58}H_{74}O_8$ (899.23). Yellow amorphous solid. **Source:** QIU SHI MEI DENG MU *Maytenus chuchuhuasca*(bark). **Ref:** 4295.

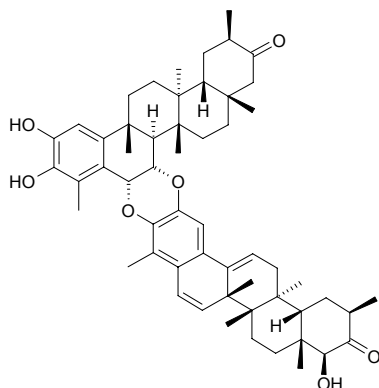


22812 Xuxuasin A

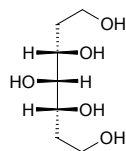
$C_{56}H_{72}O_6$ (841.19). Colorless amorphous solid. Source: QIU SHI MEI DENG *MU Maytenus chuchuhuasca*. Ref: 2586.

**22813 Xuxuasin B**

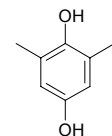
$C_{56}H_{72}O_7$ (857.19). Colorless amorphous solid. Source: QIU SHI MEI DENG *MU Maytenus chuchuhuasca*. Ref: 2586.

**22814 Xylitol**

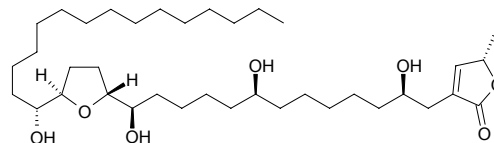
Klinit [87-99-0] $C_7H_{16}O_5$ (180.20). mp 93–94°C, bp 215–217°C/1mmHg. Source: MO GU *Agaricus campestris*. Ref: 6.

**22815 m-Xylohydroquinone**

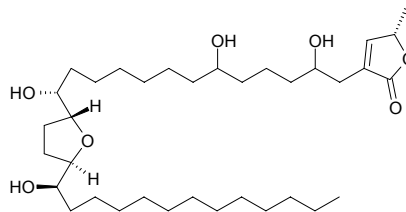
[654-42-2] $C_8H_{10}O_2$ (138.16). Acicular crystals (dimethyl benzene), mp 149–150°C. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 62.5µg/mL; *Enterococcus* sp., MIC = 62.5µg/mL; *Bacillus typhosus*, MIC = 500µg/mL); anti-fertility agent (rat); pesticide. Source: WAN DOU *Pisum sativum*. Ref: 661.

**22816 Xylomaticin**

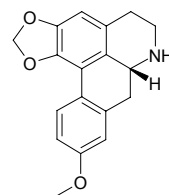
[155969-86-1] $C_{37}H_{68}O_7$ (624.95). Source: CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.0015%dw), FANG XIANG MU BAN SHU *Xylopiia aromatica*. Ref: 1521, 4617.

**22817 Xylopianan**

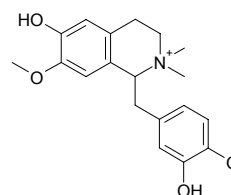
$C_{35}H_{64}O_7$ (596.90). Source: FANG XIANG MU BAN SHU *Xylopiia aromatica*, SHAN FAN LI ZHI *Annona montana* (seed). Ref: 1521, 5035.

**22818 Xylopine**

O-Methylanolobine [517-71-5] $C_{18}H_{17}NO_3$ (295.34). mp 124–125°C, $[\alpha]_D^{25} = -23.4^\circ$ ($c = 1.92$, methanol); $[\alpha]_D^{22} = -28.18^\circ$ ($c = 0.001$, MeOH). Pharm: Adrenergic α_1 -receptor blocker; analgesic; antibacterial (*Bacillus cereus*, *Micrococcus* sp., *Staphylococcus aureus*); antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, EC = 440ng/mL, chloroquine-endured strain W2, ED₅₀ = 2270ng/mL); cytotoxic; CNS depressant; platelet aggregation inhibitor (due to collagen, ADP and arachidonic acid); antileishmanial (*Leishmania panamensis*, IC₅₀ = (6±0.07)µmol/L, control Amphotericin B, IC₅₀ = (0.1±0.004)µmol/L; *Leishmania mexicana*, IC₅₀ = (3±0.27)µmol/L, Amphotericin B, IC₅₀ = (0.1±0.004)µmol/L; macrophage, IC₅₀ = (112±0.2)µmol/L, SI = 37.3; HFF, IC₅₀ = (115±0.1)µmol/L, SI = 38.3)^[5424]. Source: DA YE GUA TAI MU *Guatteria amplifolia*, NIU XIN FAN LI ZHI *Annona reticulata*, XI SHU MU BAN SHU *Xylopiia discreta*. Ref: 658, 900, 5424.

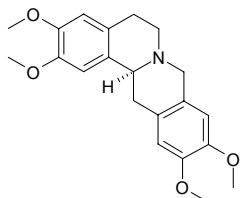
**22819 Xylopinidine**

6,7,3',4'-Tetrasubstituted tetrahydrobenzylisoquinoline alkaloid $C_{20}H_{26}NO_4^+$ (344.43). Colorless amorphous powder, $[\alpha]_D^{22} = 0^\circ$ ($c = 0.36$, MeOH). Source: XIAO HUA MU BAN SHU *Xylopiia parviflora* (bark and root). Ref: 3794.

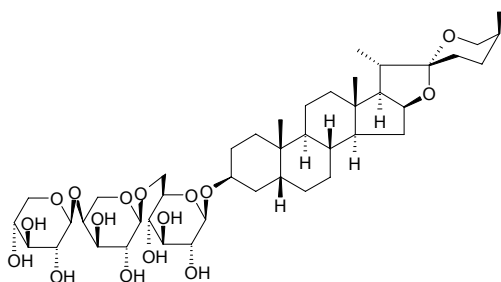


22820 Xylopinine

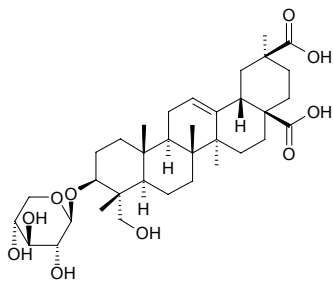
[4126-86-8] C₂₁H₂₅NO₄ (355.44). Crystals (ethanol), mp 181~182°C, [α]_D¹⁵ = -177.2° (*c* = 4.07, chloroform). Pharm: Adrenergic α -receptor blocker; hypnotic (hypnotic synergism with chloral hydrate, rat, 20mg/kg); LD₅₀ (mus, sc) = 108mg/kg, LD₅₀ (mus, iv) = 51.5mg/kg. Source: HUANG YE DI BU RONG *Stephania viridiflavens*. Ref: 661, 658.

**22821 3-O-{\beta-D-Xylopyranosyl(1→4)}[α-L-arabinopyranosyl(1→6)]-β-D-glucopyranosyl-(25S)-5β-spirostan-3β-ol**

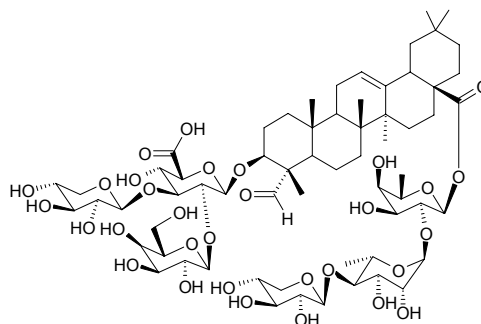
C₄₃H₇₀O₁₆ (843.03). [α]_D²¹ = -28° (*c* = 0.50, MeOH). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**22822 3-O-β-D-Xylopyranosyl-esculentic acid**

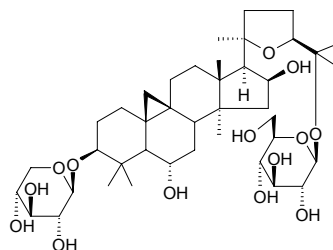
C₃₅H₅₄O₁₀ (634.85). White acicular crystals, mp 219~221°C. Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 169.

**22823 3-O-β-D-Xylopyranosyl-(1→3)-[β-D-galactopyranosyl-(1→2)]-β-D-glucuronopyranosylgypsogenin-28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-β-D-fucopyranoside**

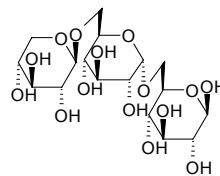
C₆₄H₁₀₀O₃₁ (1365.49). White amorphous powder, [α]_D²⁰ = +13° (*c* = 0.10, MeOH). Source: LAO NIU JIN *Arenaria juncea* (root). Ref: 3095.

**22824 3-O-β-D-Xylopyranosyl-25-O-β-D-glucopyranosyl cycloastragenol**

C₄₁H₆₈O₁₄ (784.99). Source: MENG GU HUANG QI *Astragalus mongholicus*. Ref: 660.

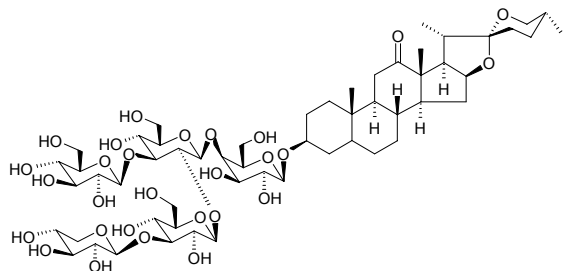
**22825 β-D-Xylopyranosyl-(1→6)-α-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

C₁₇H₃₀O₁₅ (474.42). Colorless powder. Source: XI YANG SHEN *Panax quinquefolium*. Ref: 788.



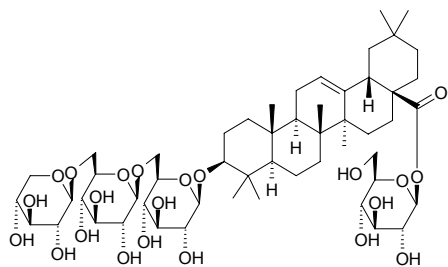
22826 (25R)-3β-[(O-β-D-Xylopyranosyl-(1→3)-β-D-glucopyranosyl-(1→2)-O-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl]oxy]-5α-spirostan-12-one

C₅₆H₉₀O₂₈ (1211.32). Amorphous solid, $[\alpha]_D^{26} = -34.0^\circ$ ($c = 0.10$, MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, IC₅₀ = 3.9 μg/mL; HSC-2, IC₅₀ = 7.8 μg/mL; control Etoposide: HL-60, IC₅₀ = 0.3 μg/mL; HSC-2, IC₅₀ = 24.4 μg/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (underground part: yield = 0.0060% dw). **Ref:** 4651.



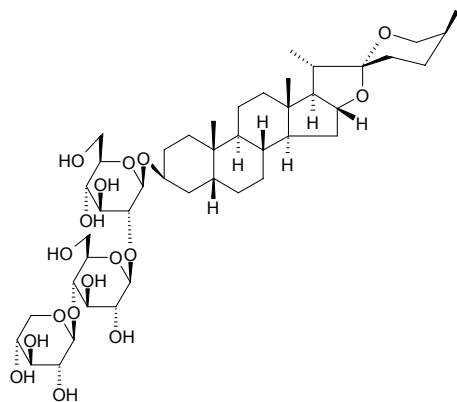
22827 3-O-β-D-Xylopyranosyl-(1→6)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl oleanolic acid 28-O-β-D-glucopyranosyl ester

C₅₃H₈₆O₂₂ (1075.26). Amorphous powder, mp 212~215°C, $[\alpha]_D^{20} = -9.6^\circ$ ($c = 0.2$, MeOH). **Source:** CHI GENG TENG *Gymnema sylvestre*. **Ref:** 766.



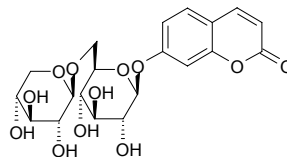
22828 3-O-β-D-Xylopyranosyl(1→4)-β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl]- (25S)-5β-spirostan-3β-ol

C₄₄H₇₂O₁₇ (873.05). White amorphous powder, mp 274~275°C (MeOH), $[\alpha]_D^{21} = -40.0^\circ$ ($c = 0.25$, C₅H₅N). **Pharm:** Cytotoxic (*in vitro*, HO-8910, IC₅₀ = (5.2±0.1) μmol/L, Vincristine, IC₅₀ = (25.1±1.9) μmol/L; Bel7405, IC₅₀ = (5.2±0.3) μmol/L, Vincristine, IC₅₀ = (31.4±3.4) μmol/L). **Source:** GE BI TIAN MEN *Asparagus gobicus* (root). **Ref:** 4975.



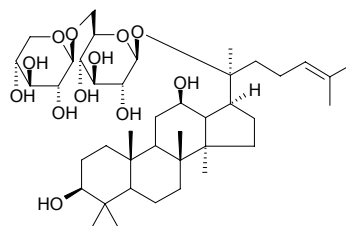
22829 O-β-D-Xylopyranosyl(1→6)-β-D-glucopyranosyl] 7-hydroxy-coumarin

C₂₀H₂₄O₁₂ (456.41). White amorphous powder, $[\alpha]_D^{26} = -83.4^\circ$ ($c = 1.0$, H₂O). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4159.



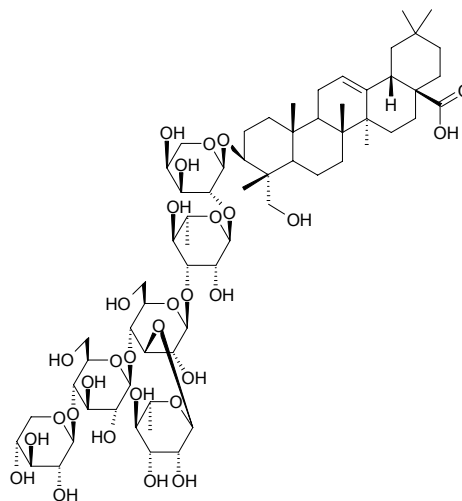
22830 20-O-β-D-Xylopyranosyl(1→6)-β-D-glucopyranosyl-20(S)-protopanaxadiol

C₄₁H₇₀O₁₂ (755.01). Amorphous powder (MeOH-EtOAc), mp 162.5~165°C, $[\alpha]_D^{24} = +12.6^\circ$ ($c = 0.3$, MeOH). **Pharm:** Cytotoxic and partial reversal of doxorubicin resistance (hmn breast cancer cell line MCF7, IC₅₀ = (48.5±7.27) μg/mL, resistant subline MCF7/ADM, IC₅₀ = (58.2±8.57) μg/mL). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (leaf). **Ref:** 4433.

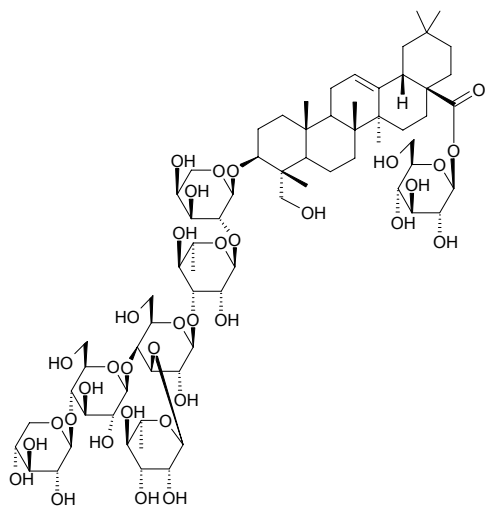


22831 3-O-β-D-Xylopyranosyl (1→4)-β-D-glucopyranosyl (1→4)]-α-L-rhamnopyranosyl (1→3)-β-D-glucopyranosyl (1→3)-α-L-rhamnopyranosyl (1→2)-α-L-arabinopyranosyl hederagenin

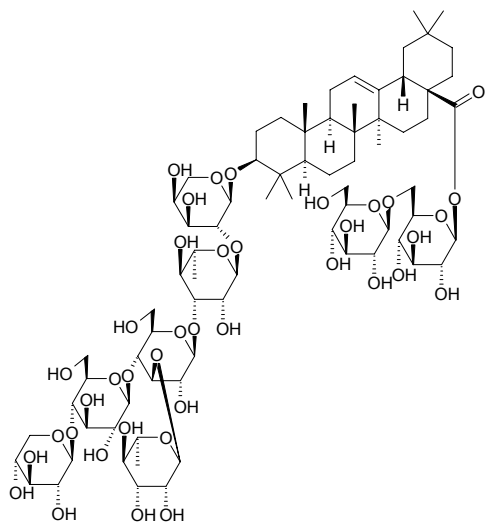
C₆₄H₁₀₄O₃₀ (1353.52). **Source:** CHUAN XU DUAN *Dipsacus asperoides*. **Ref:** 660.



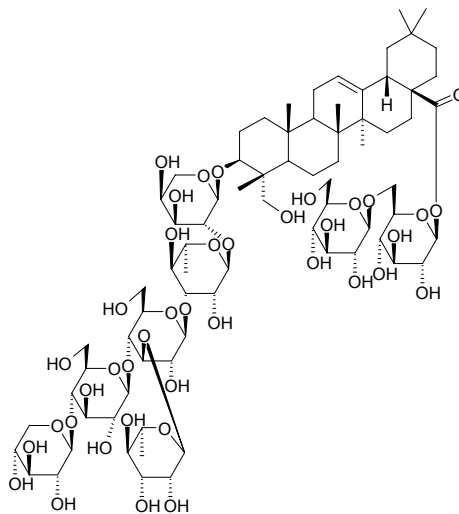
22832 3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)] [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-28-*O*- β -*D*-glucopyranoside
C₇₀H₁₁₄O₃₅ (1515.67). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



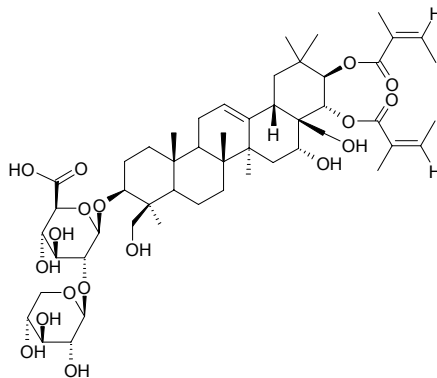
22833 3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)] [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl oleanolic acid-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
C₇₆H₁₂₄O₃₉ (1661.81). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



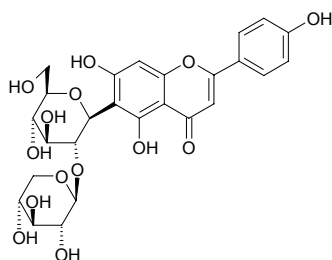
22834 3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)] [α -*L*-rhamnopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside
C₇₆H₁₂₄O₄₀ (1677.81). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



22835 3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin
C₅₁H₇₈O₁₈ (979.18). [α]_D²¹ = -3.76° (*c* = 0.13, MeOH). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem cortex). Ref: 5269.

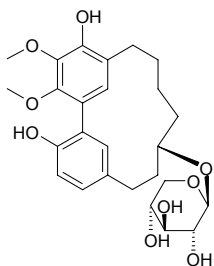


22836 2''-*O*- β -*D*-Xylopyranosylisovitexin
C₂₆H₂₈O₁₄ (564.50). [α]_D²⁷ = -22.3° (*c* = 1.03, pyridine). Source: RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 3533.

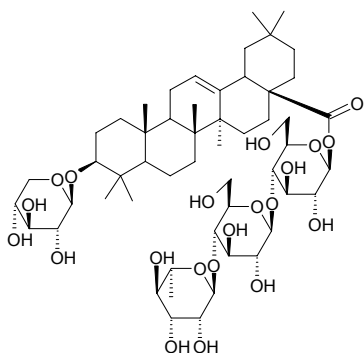


22837 11-O-β-D-Xylopyranosylmyricanol

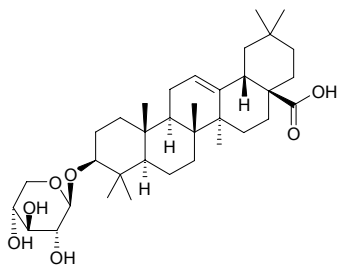
C₂₆H₃₄O₉ (490.56). Colorless needles (CH₂Cl₂), mp 229–231°C, [α]_D²² = –46° (c = 0.55, MeOH). **Source:** QIAO MU ZHUANG YANG MEI *Myrica arborea* (stem and root cortex). **Ref:** 5079.

**22838 3β-D-O-(β-D-Xylopyranosyl)-olean-12-ene-28-O-(α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)-β-D-glucopyranosyl) ester**

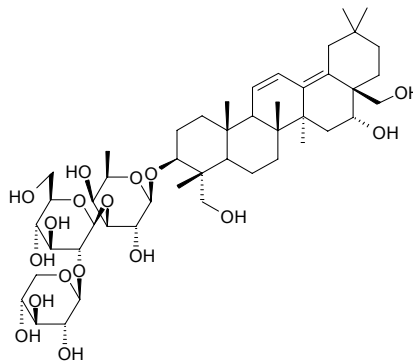
C₅₃H₈₆O₂₁ (1059.26). White powder, [α]_D²⁵ = +68°, (c = 1, MeOH). **Pharm:** Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC₅₀ = 0.52 μmol/L, HEK-293 cell line, IC₅₀ = 1.3 μmol/L, WEHI-164 cell line, IC₅₀ = 2.1 μmol/L; control 6-Mercaptopurine, J774.A1 cell line, IC₅₀ = 0.003 μmol/L, HEK-293 cell line, IC₅₀ = 0.007 μmol/L, WEHI-164 cell line, IC₅₀ = 0.015 μmol/L). **Source:** YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). **Ref:** 5036.

**22839 3-O-β-D-Xylopyranosyloleanolic acid**

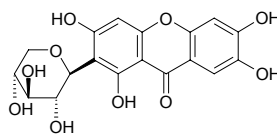
C₃₅H₅₆O₇ (588.83). **Pharm:** Cytotoxic (A2780, IC₅₀ = (8.9±0.6) μg/mL; control Actinomycin D, IC₅₀ = 2–5 ng/mL). **Source:** ZHUN GE ER LAN PEN HUA *Scabiosa soongorica*, *Dialium guineense*. **Ref:** 5397.

**22840 2''-O-β-D-Xylopyranosylsaikosaponin b₂**

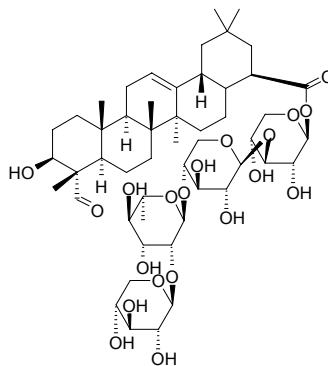
C₄₇H₇₆O₁₇ (913.12). **Source:** WEN CHUAN CHAI HU *Bupleurum wenchuanense*. **Ref:** 2247.

**22841 2-C-β-D-Xylopyranosyl-1,3,6,7-tetrahydroxyxanthone**

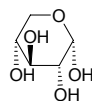
C₁₈H₁₆O₁₀ (392.32). **Source:** KUO YE GU SUI BU *Davallia solida*. **Ref:** 2422.

**22842 β-D-Xylopyranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-β-D-xylopyranosyl gypsogenin**

C₅₁H₈₀O₂₀ (1013.19). White crystals, mp 210–215°C. **Source:** XIN YE CHI BO *Thladiantha cordifolia*. **Ref:** 425.

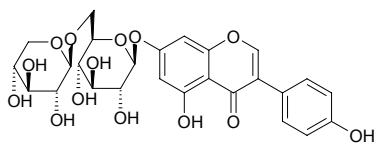
**22843 Xylose**

D-Xylose [58-86-6] C₅H₁₀O₅ (150.13). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, GUAN HUA DANG SHEN *Codonopsis tubulosa*, HUI MAO DANG SHEN *Codonopsis canescens*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], QIU HUA DANG SHEN *Codonopsis subglobosa*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XIA YE XIANG PU *Typha angustifolia*. **Ref:** 2, 660.

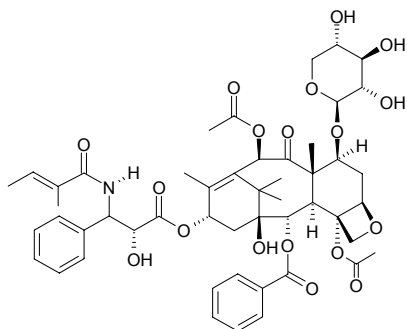


22844 6''-β-D-Xylose-genistin

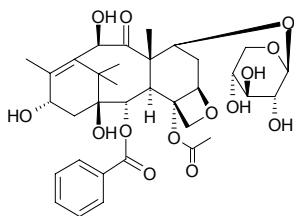
C₂₆H₂₈O₁₄ (564.50). Amaranth powder, easily soluble in methanol and alcohol, soluble in water. Source: HEI DA DOU *Glycine max*. Ref: 2457.

**22845 7-(β-Xylosyl)cephalomannine**

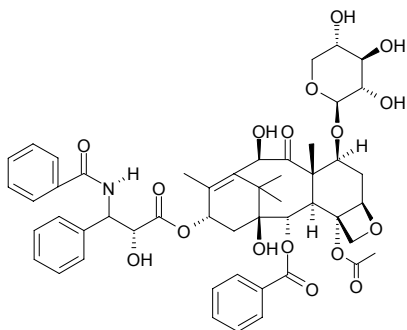
[90352-19-5] C₅₀H₆₁NO₁₈ (964.04). [α]_D = -26° (pyridine). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22846 7-(β-Xylosyl)-10-deacetylbaaccatin III**

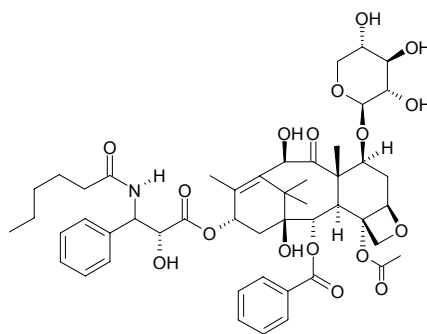
C₃₄H₄₄O₁₄ (676.72). White crystalline powder, mp 244~246°C (methanol), [α]_D³⁰ = -26.9° (methanol). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 296, 662.

**22847 7-(β-Xylosyl)-10-deacetyltaxol**

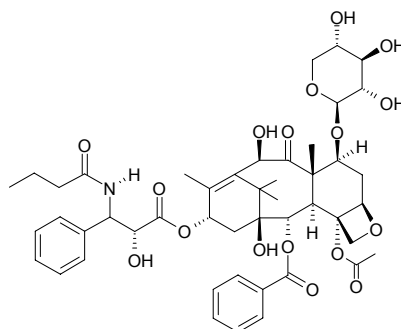
C₅₀H₅₇NO₁₇ (944.01). [α]_D = -2° (pyridine), mp 246~248°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22848 7-(β-Xylosyl)-10-deacetyltaxol C**

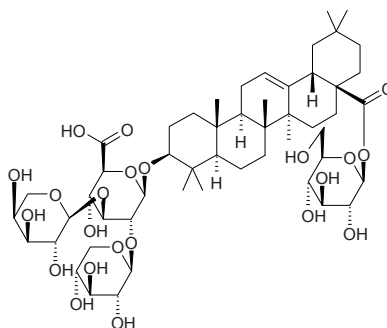
C₄₉H₆₃NO₁₇ (938.04). [α]_D = +3° (pyridine), mp 215~217°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

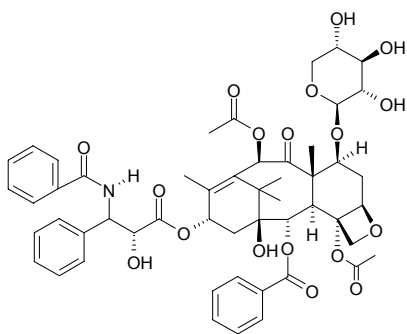
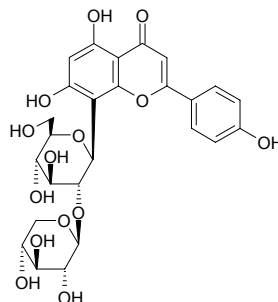
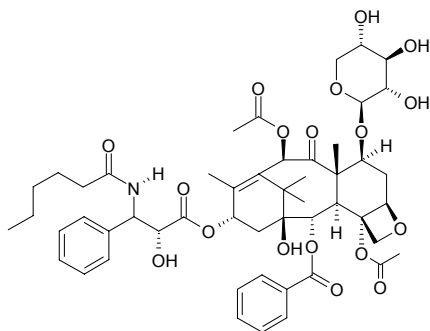
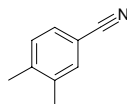
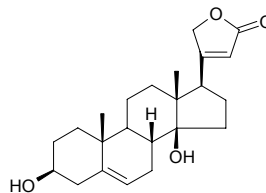
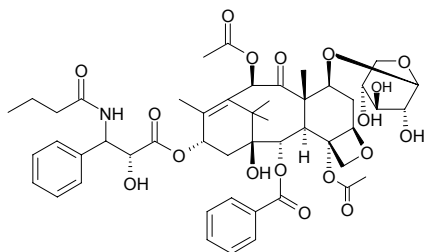
**22849 7-(β-xylosyl)-10-deacetyltaxol D**

[172486-23-6] C₄₇H₅₉NO₁₇ (909.99). [α]_D = -14.3° (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22850 3-O-[(2'-O-Xylosyl)-(3'-O-arabinosyl)]-glucuronyloleanolic acid-28-O-β-D-glucopyranoside**

C₅₂H₈₂O₂₂ (1059.22). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

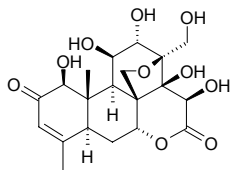


22851 7-(β -Xylosyl)taxol[90332-66-4] C₅₂H₅₉NO₁₈ (986.05). [α]_D = -23° (pyridine), mp 236~238°C.Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**22854 O-D-Xylosylvitexin**C₂₆H₂₈O₁₄ (564.50). mp 210°C. Source: TIAN CHENG *Citrus sinensis*. Ref: 6.**22852 7-(β -Xylosyl)taxol C**[90332-67-5] C₅₁H₆₅NO₁₈ (980.08). [α]_D = -4° (pyridine), mp 229~231°C.Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**22855 Xylylic acid nitrile**[22884-95-3] C₉H₉N (131.18). mp 66°C. Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.**22856 Xysmalogenin**C₂₃H₃₂O₄ (372.51). Crystals, mp 235~237°C, [α]_D²² = 21° (c = 0.8, EtOH).Source: XIANG JIA PI *Periploca sepium*. Ref: 660, 1521, 2498.**22853 7-(β -Xylosyl)taxol D**C₄₉H₆₁NO₁₈ (952.03). White powder, [α]_D²⁸ = -25.0° (c = 0.25, MeOH).Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). Ref: 5188.

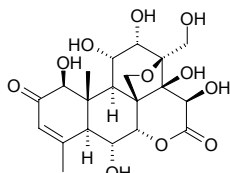
Y

22857 Yadanzliolide A

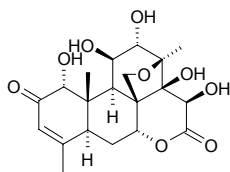
$C_{20}H_{26}O_{11}$ (426.42). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00018%dw). **Ref:** 660, 4748.

**22858 Yadanzliolide B**

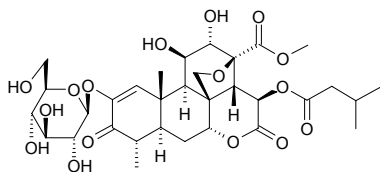
$C_{20}H_{26}O_{11}$ (442.42). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660.

**22859 Yadanzliolide C**

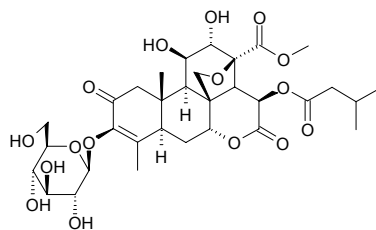
[95258-12-1] $C_{20}H_{26}O_9$ (410.42). Colorless prismatic crystals (methanol–diethyl ether), mp 292–297°C (dec), $[\alpha]_D^{23} = +29^\circ$ ($c = 1.2$, methanol). **Pharm:** Induces cell differentiation (hmn premyelocytic leukemia and HL-60, $ED_{50} = 0.6\mu\text{g/mL}$). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000015%dw)^[4748]. **Ref:** 660, 935, 1108, 4748.

**22860 Yadanzioside A**

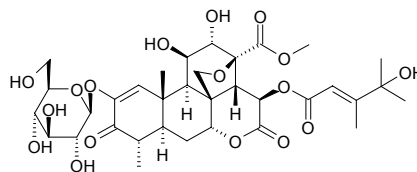
2-*O*-(β -*D*-Glucosyl) brucein A [95258-15-4] $C_{32}H_{44}O_{16}$ (684.69). Amorphous solid, mp 200–204°C (dec), $[\alpha]_D^{26} = +3^\circ$ ($c = 1.8$, ethanol). **Pharm:** Antineoplastic (mouse P_{388} , 10mg/kg, biotic prolonged rate = 7.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (dried fruit: content scope = 0.5%–1.43%^[5501], mean content = 0.96%^[5508]). **Ref:** 660, 937, 4748, 5501, 5508.

**22861 Yadanzioside B**

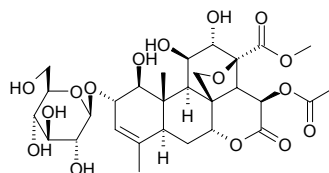
3-*O*-(β -*D*-Glucopyranosyl) brucein A [95258-18-7] $C_{32}H_{44}O_{16}$ (684.69). Amorphous solid, mp 189–195°C (dec), $[\alpha]_D^{26} = -8.1^\circ$ ($c = 0.84$, ethanol). **Pharm:** Antineoplastic (mouse P_{388} , 10mg/kg, biotic prolonged rate = 4.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0007%dw)^[4748]. **Ref:** 660, 937, 4748.

**22862 Yadanzioside C**

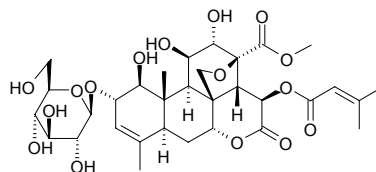
2-*O*-(β -*D*-Glucopyranosyl) brucein C [95258-16-5] $C_{34}H_{46}O_{17}$ (726.73). Amorphous solid, mp 204–209°C (dec), $[\alpha]_D^{26} = +20^\circ$ ($c = 0.92$, ethanol). **Pharm:** Antineoplastic (mouse P_{388} , 10mg/kg, biotic prolonged rate = 2.0%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00013%dw)^[4748]. **Ref:** 660, 937, 4748.

**22863 Yadanzioside D**

[95258-19-8] $C_{29}H_{40}O_{16}$ (644.63). Amorphous solid, mp 207–212°C (dec), $[\alpha]_D^{20} = +38^\circ$ ($c = 0.98$, ethanol). **Pharm:** Antineoplastic (mouse P_{388} , 10mg/kg, biotic prolonged rate = 9.2%); antiviral. **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00039%dw)^[4748]. **Ref:** 660, 937, 4748.

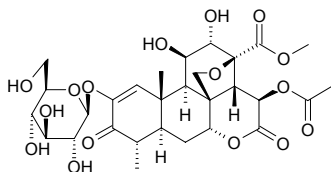
**22864 Yadanzioside E**

[95258-20-1] $C_{32}H_{44}O_{16}$ (684.70). Amorphous solid, mp 190–195°C (dec), $[\alpha]_D^{23} = +59^\circ$ ($c = 1.6$, ethanol). **Pharm:** Antineoplastic (mouse P_{388} , 10mg/kg, biotic prolonged rate = 7.1%). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0011%dw)^[4748]. **Ref:** 660, 937, 4748.

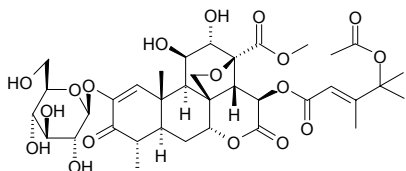


22865 Yadanzioideside F

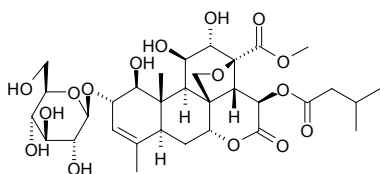
2-*O*-(β -*D*-Glucosyl) brucein B [95258-11-0] C₂₉H₃₈O₁₆ (642.61). White powder (methanol), mp 190–195°C, [α]_D²⁵ = +8.2° (c = 1.1, methanol). **Pharm:** Antineoplastic (mouse P₃₈₈); insect antifeedant (*Plutella xylostella*); reduces normal body temperature of mus. **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0011%dw)^[4748]. **Ref:** 660, 900, 4748.

**22866 Yadanzioideside G**

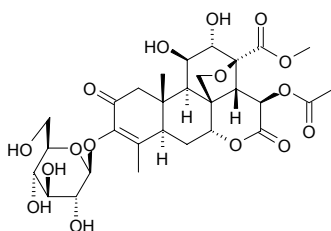
2-*O*-(β -*D*-Glucopyranosyl) bruceantolin [95258-17-6] C₃₆H₄₈O₁₈ (768.77). Amorphous solid, mp 180–185°C (dec), [α]_D²² = +19° (c = 1.2, ethanol). **Pharm:** Antineoplastic (mouse P₃₈₈, 10mg/kg, biotic prolonged rate = 4.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0155%dw). **Ref:** 660, 937, 4748.

**22867 Yadanzioideside H**

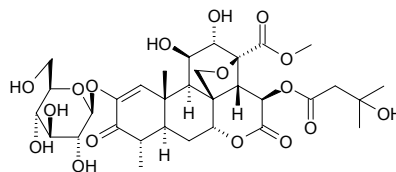
C₃₂H₄₆O₁₆ (686.71). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660.

**22868 Yadanzioideside I**

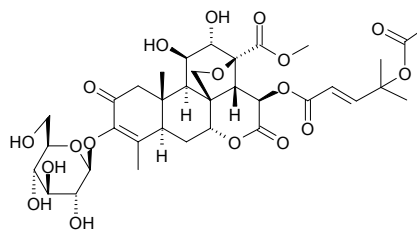
3-*O*-(β -*D*-Glucosyl) brucein B [99132-95-3] C₂₉H₃₈O₁₆ (642.62). Colorless rhombic crystals (ethanol), mp 287–290°C, [α]_D²⁸ = –21° (c = 1.0, methanol). **Pharm:** Antineoplastic (mouse P₃₈₈). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0001%dw)^[4748]. **Ref:** 660, 935, 4748.

**22869 Yadanzioideside J**

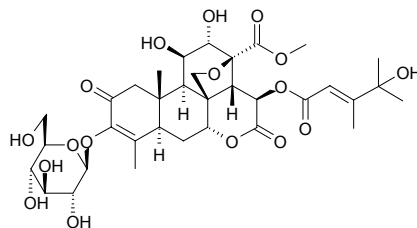
[99132-96-4] C₃₂H₄₄O₁₇ (700.69). Amorphous solid, mp 198–202°C, [α]_D²² = –6.4° (c = 2.8, methanol). **Pharm:** Antineoplastic (mouse P₃₈₈). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660, 935.

**22870 Yadanzioideside K**

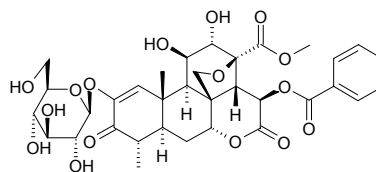
[101559-98-2] C₃₅H₄₆O₁₈ (754.75). Crystals (methanol), mp 214.5–216.5°C, [α]_D²³ = +15° (c = 1.0, ethanol); [α]_D¹⁸ = –31° (c = 0.9, pyridine). **Pharm:** Antineoplastic (mouse P₃₈₈). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00051%dw)^[4748]. **Ref:** 660, 900, 1521, 4748.

**22871 Yadanzioideside L**

3-*O*-(β -*D*-Glucosyl) brucein C [99132-97-5] C₃₄H₄₆O₁₇ (726.73). Colorless rhombic crystals (ethanol–diethyl ether), mp 199–204°C, [α]_D²⁶ = –0.7° (c = 6.2, methanol). **Pharm:** Antineoplastic (mouse P₃₈₈); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000942%dw)^[4748]. **Ref:** 660, 935, 4748.

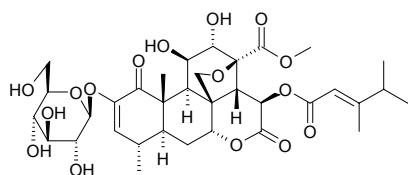
**22872 Yadanzioideside M**

[101559-99-3] C₃₄H₄₀O₁₆ (704.69). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00057%dw)^[4748]. **Ref:** 2, 660, 4748.

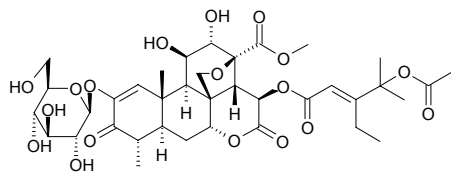


22873 Yadanzioside N

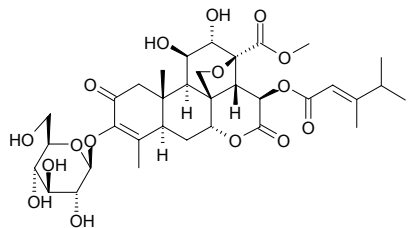
[101560-00-3] C₃₄H₄₆O₁₆ (710.74). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000062%dw)^[4748]. Ref: 2, 660, 4748.

**22874 Yadanzioside O**

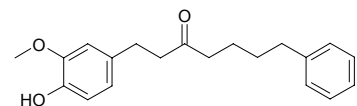
[101560-01-4] C₃₇H₅₀O₁₈ (782.80). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00048%dw)^[4748]. Ref: 2, 660, 1521, 4748.

**22875 Yadanzioside P**

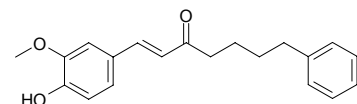
Bruceantioside B [79439-84-2] C₃₄H₄₆O₁₆ (710.74). Colorless amorphous powder, mp 193–198°C, mp 200°C (dec), [α]_D²³ = +7.0° (c = 0.57, ethanol); [α]_D²⁵ = –45° (c = 1.7, pyridine), [α]_D²⁵ = –3.6° (c = 0.5, pyridine). Pharm: Antineoplastic (mouse P₃₈₈, 5mg/(kg-d), survival rate = 15.5%, 10mg/(kg-d), survival rate = 28.9%). Source: KANG LI YA DAN ZI *Brucea antidysenterica*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00029%dw)^[4748]. Ref: 2, 658, 660, 661, 1012, 1064, 4748.

**22876 Yakuchinone A**

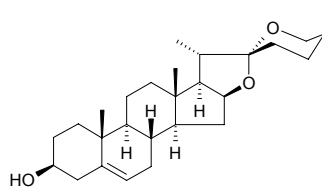
C₂₀H₂₄O₃ (312.41). Pharm: Anti-inflammatory (NO production inhibitor)^[4415]. Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 1521, 4415.

**22877 Yakuchinone B**

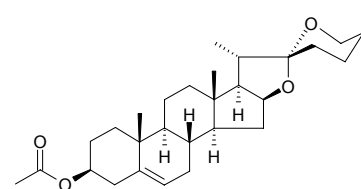
1-4-(Hydroxy-3-methoxyphenyl)-7-phenyl-1-hepten-3-one C₂₀H₂₂O₃ (310.40). Pharm: Anti-inflammatory (NO production inhibitor)^[4415]. Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 660, 1521, 4415.

**22878 Yamogenin**

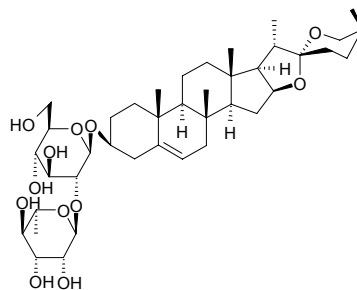
[512-06-1] C₂₇H₄₂O₃ (414.63). Source: BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*], CHA RUI SHU YU *Dioscorea colletii*, HU LU BA *Trigonella foenum-graecum*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, SHAN BI XIE *Dioscorea tokoro*, XIAN XI SHU YU *Dioscorea gracillima*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*. Ref: 6, 10, 660.

**22879 Yamogenin acetate**

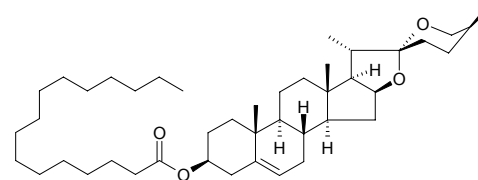
C₂₉H₄₄O₄ (456.67). Source: BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*]. Ref: 10, 660.

**22880 Yamogenin 3-O-neohesperidoside**

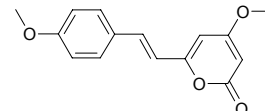
C₄₀H₆₄O₁₂ (736.95). Pharm: Molluscicide (*Biomphalaria glabrata* snail, LD₁₀₀ = 25mg/L). Source: WEN ZHU *Asparagus setaceus* [Syn. *Asparagus plumosus*]. Ref: 658.

**22881 Yamogenin palmitate**

C₄₃H₇₂O₄ (653.05). Source: CHA RUI SHU YU *Dioscorea colletii*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*]. Ref: 10, 660.

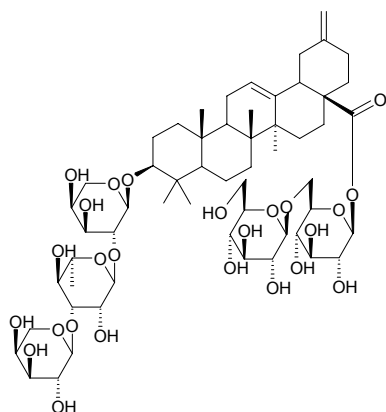
**22882 Yangonin**

[500-62-9] C₁₅H₁₄O₄ (258.28). Pharm: Antispasmodic. Source: KA WA HU JIAO *Piper methysticum*. Ref: 658.

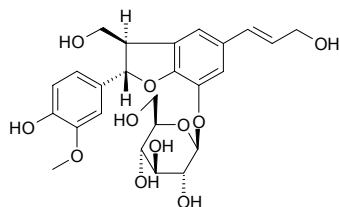


22883 Yemuoside I

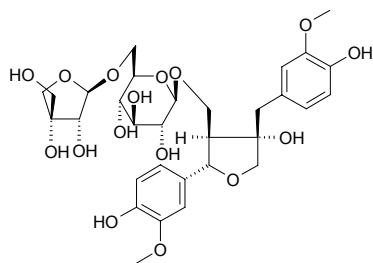
$C_{57}H_{90}O_{25}$ (1175.34). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22884 Yemuoside YM₁**

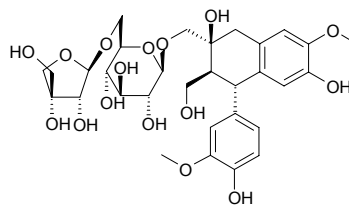
$C_{25}H_{30}O_{11}$ (506.51). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22885 Yemuoside YM₂**

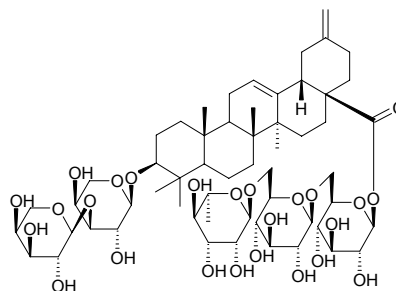
$C_{31}H_{42}O_{16}$ (670.67). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22886 Yemuoside YM₆**

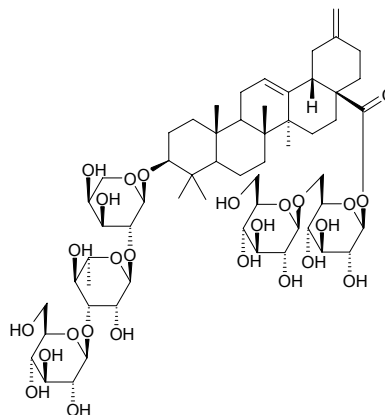
$C_{31}H_{42}O_{16}$ (670.67). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22887 Yemuoside YM₇**

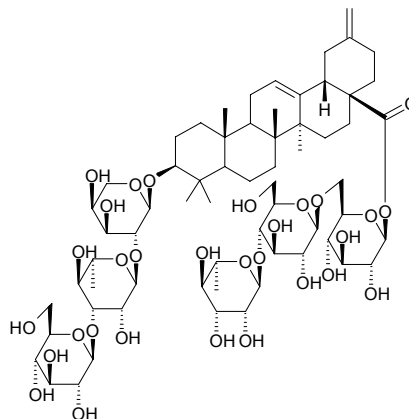
$C_{57}H_{90}O_{25}$ (1175.34). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22888 Yemuoside YM₈**

$C_{58}H_{92}O_{26}$ (1205.36). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

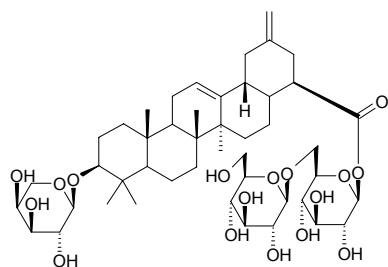
**22889 Yemuoside YM₉**

$C_{64}H_{102}O_{30}$ (1351.51). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

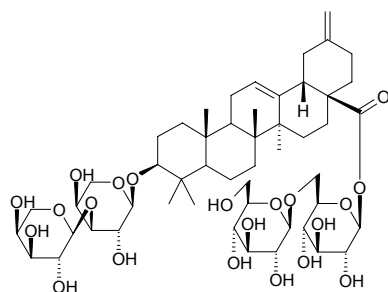


22890 Yemuoside YM₁₁

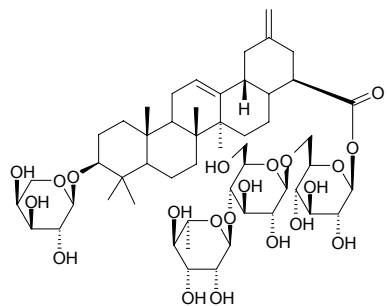
C₄₆H₇₂O₁₇ (897.08). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22891 Yemuoside YM₁₃**

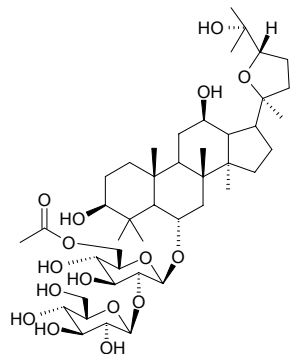
C₅₁H₈₀O₂₁ (1029.19). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22892 Yemuoside YM₁₄**

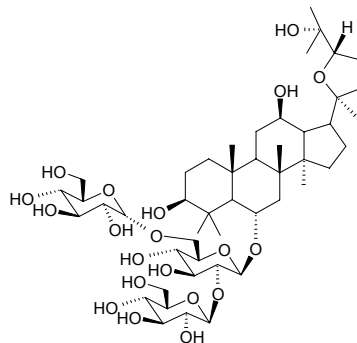
C₅₂H₈₂O₂₁ (1043.22). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22893 Yesanchinoside A**

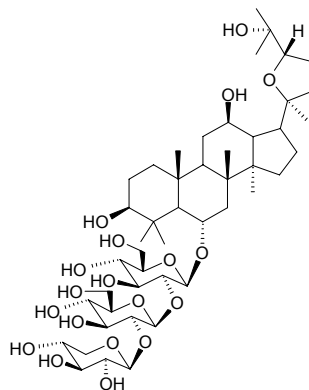
6-*O*-β-*D*-Glucopyranosyl-(1→2)-6-*O*-acetyl-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C₄₄H₇₄O₁₆ (859.07). White amorphous powder, [α]_D²⁰ = +7.1° (*c* = 0.1, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.002%dw). Ref: 4610.

**22894 Yesanchinoside B**

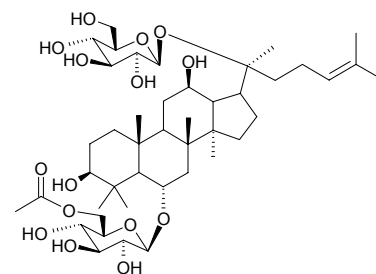
6-*O*-[α-*D*-Glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C₄₈H₈₂O₂₀ (979.18). White amorphous powder, [α]_D²⁰ = +11.3° (*c* = 0.1, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0044%dw). Ref: 4610.

**22895 Yesanchinoside C**

6-*O*-β-*D*-Xylopyranosyl-(1→2)-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C₄₇H₈₀O₁₉ (848.15). White amorphous powder, [α]_D²⁰ = +5.9° (*c* = 0.1, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0047%dw). Ref: 4610.

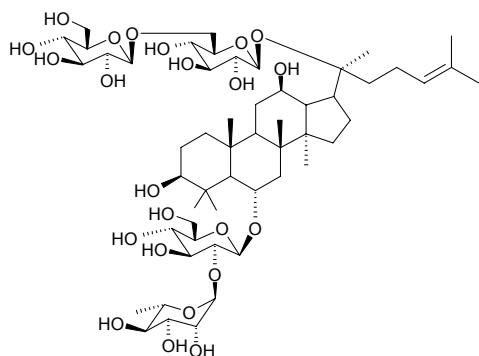
**22896 Yesanchinoside D**

6-*O*-[6-*O*-Acetyl-β-*D*-glucopyranosyl]-20-*O*-(β-*D*-glucopyranosyl)-20(*S*)-propanaxatriol C₄₄H₇₄O₁₅ (843.07). White amorphous powder, [α]_D²⁰ = +13.6° (*c* = 0.1, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0016%dw). Ref: 4610.

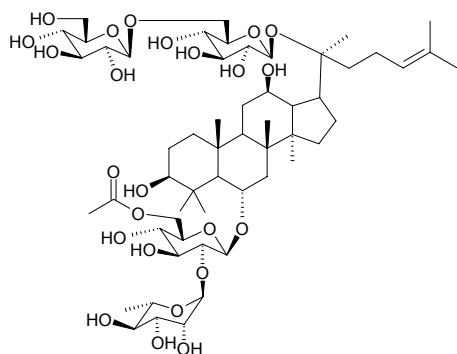


22897 Yesaninoside E

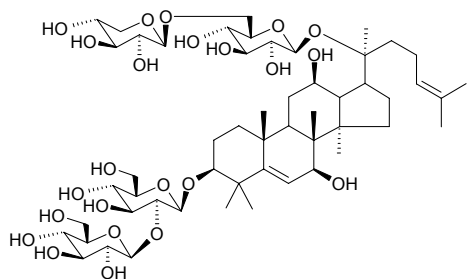
6-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol C₅₄H₉₂O₂₃ (1109.32). White amorphous powder, $[\alpha]_D^{20} = +1.5^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0049%dw). Ref: 4610.

**22898 Yesaninoside F**

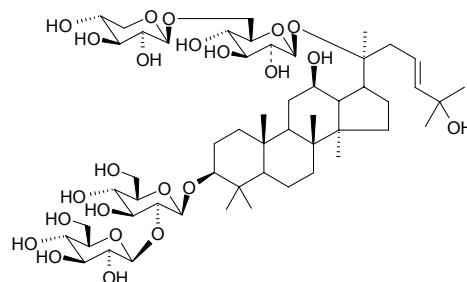
6-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-6-*O*-acetyl- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol C₅₆H₉₄O₂₄ (1151.36). White amorphous powder, $[\alpha]_D^{20} = +3.3^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0014%dw). Ref: 4610.

**22899 Yesaninoside G**

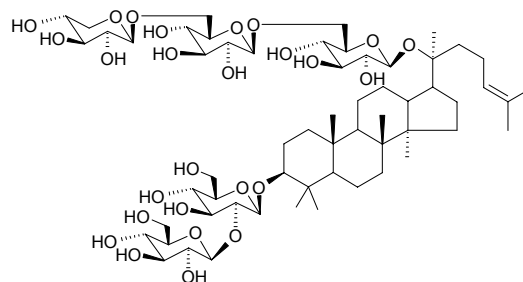
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,7 β ,12 β ,20(*S*)-tetrahydroxydammar-5,24-diene C₅₃H₈₈O₂₃ (1093.28). White amorphous powder, $[\alpha]_D^{20} = +28.6^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0035%dw). Ref: 4647.

**22900 Yesaninoside H**

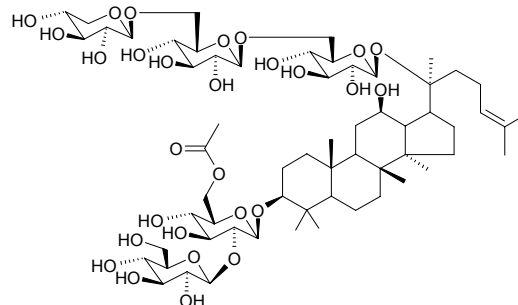
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*),25-tetrahydroxydammar-23-ene C₅₃H₉₀O₂₃ (1095.29). White amorphous powder, $[\alpha]_D^{20} = +35.5^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0014%dw). Ref: 4647.

**22901 Yesaninoside I**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,20(*S*)-dihydroxydammar-24-ene C₅₉H₁₀₀O₂₆ (1225.44). White amorphous powder, $[\alpha]_D^{20} = -2.2^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0017%dw). Ref: 4647.

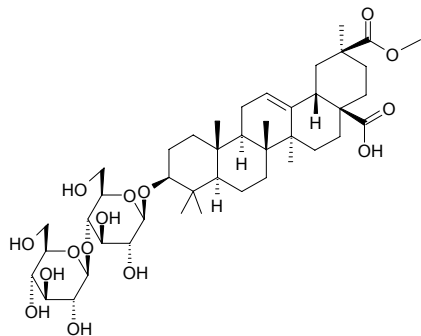
**22902 Yesaninoside J**

3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)-6-*O*-acetyl- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*)-trihydroxydammar-24-ene C₆₁H₁₀₂O₂₈ (1283.48). White amorphous powder, $[\alpha]_D^{20} = +0.73^\circ$ ($c = 0.1$, 40% CH₃CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0081%dw). Ref: 4647.

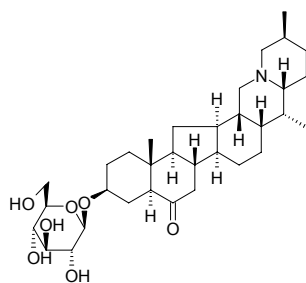


22903 Yiamolosite B

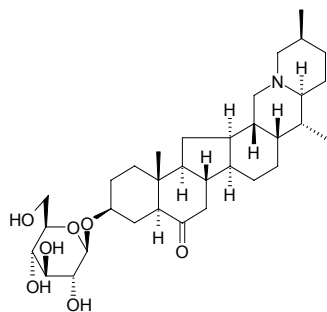
[80311-28-0] C₄₃H₆₈O₁₅ (825.01). **Pharm:** Antifungal. **Source:** AO ZHOU SHANG LU *Phytolacca octandra*. **Ref:** 658.

**22904 Yibeinoside A**

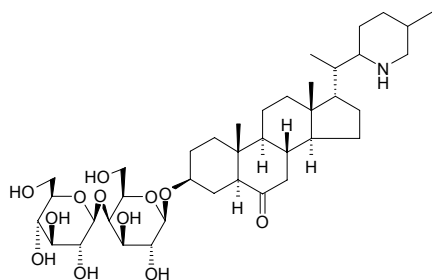
Sinpeinine-3-*O*- β -glucoside C₃₃H₅₃NO₇ (575.79). Colorless acicular crystals, mp 248–250°C, [α]_D¹⁵ = –59° (*c* = 0.1, methanol). **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 172.

**22905 Yibeinoside B**

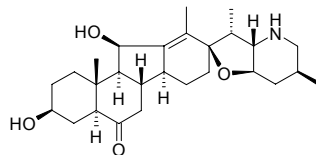
C₃₃H₅₃NO₇ (575.79). Colorless acicular crystals (MeOH), mp 202–204°C. **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 259.

**22906 Yibeinoside C**

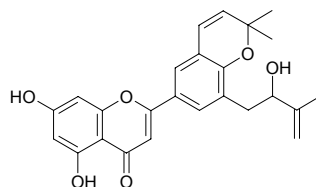
22,26-Epiminocholest-6-one-3-*O*- β -*D*-glucopyranosyl-(1→4)- β -*D*-galactopyranoside C₃₉H₆₅NO₁₂ (739.95). Colorless acicular crystals, mp 209–211°C. **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 656.

**22907 Yibeissine**

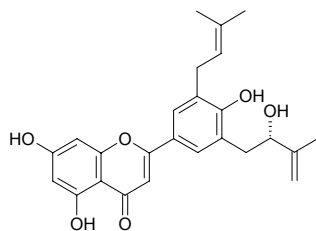
22,26-Imino-17,23-oxidojerv-12-en-6-oxo-3 β ,11 α -diol C₂₇H₄₁NO₄ (443.63). Colorless acicular crystals, mp 164.5–166.0°C, [α]_D²⁵ = –47.6° (*c* = 0.13, ethanol). **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 219.

**22908 Yinyanghuo A**

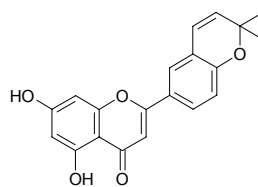
C₂₅H₂₄O₆ (420.47). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

**22909 Yinyanghuo B**

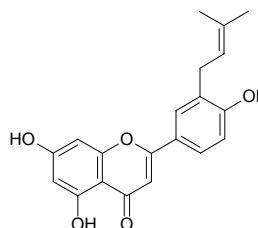
C₂₅H₂₆O₆ (422.48). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

**22910 Yinyanghuo C**

C₂₀H₁₆O₅ (336.35). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

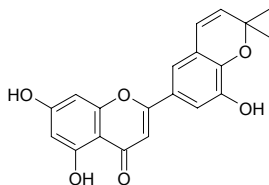
**22911 Yinyanghuo D**

C₂₀H₁₈O₅ (338.36). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

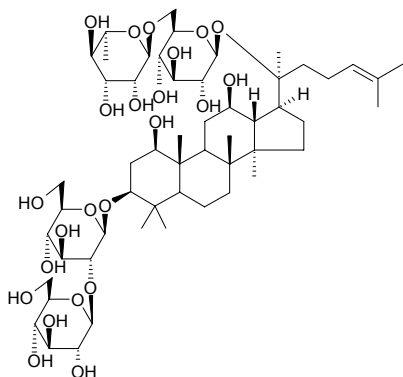


22912 Yinyanghuo E

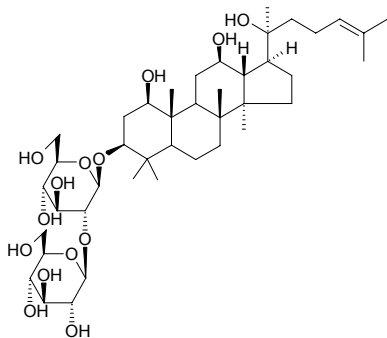
$C_{20}H_{16}O_6$ (352.35). Source: YIN YANG HUO *Epimedium brevicornum*. Ref: 635.

**22913 Yixinoside A**

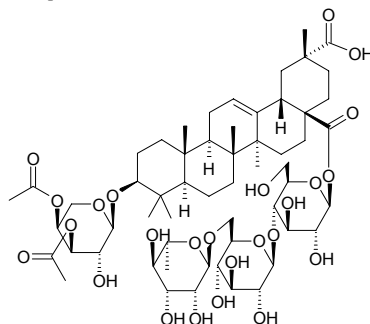
$C_{54}H_{92}O_{23}$ (1109.32). White powder, mp 201~202°C, $[\alpha]_D^{14} = +11.28^\circ$ ($c = 0.98$, methanol). Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*. Ref: 329.

**22914 Yixinoside B**

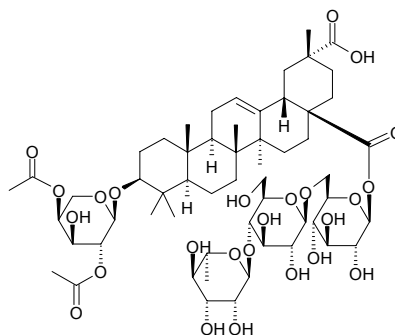
$C_{42}H_{72}O_{14}$ (801.03). White powder, mp 181~184°C. Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*. Ref: 329.

**22915 Yiyeliangwanoside I**

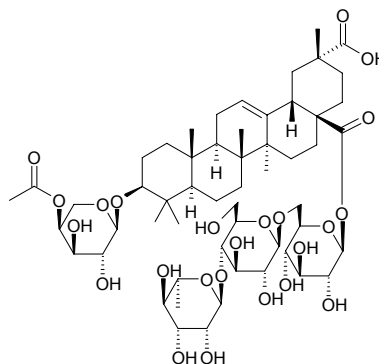
3-*O*- α -(3',4'-*O*-Dioic-acetyl)-*L*-arabino-pyranosyl-3 β -hydroxyolean-12-ene-28, 29-dioic acid-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glycopyranosyl(1 \rightarrow 4)- β -*D*-glycopyranosyl] ester $C_{57}H_{88}O_{25}$ (1173.32). White powder, mp 203~205°C, $[\alpha]_D^{25} = -3.47^\circ$ ($c = 0.1$, methanol). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 187.

**22916 Yiyeliangwanoside III**

3-*O*- α -(2',4'-*O*-Diacetyl)-*L*-arabinopyranosyl-3 β -hydroxyolean-12-ene-28,29-dioic acid-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl] ester $C_{57}H_{88}O_{25}$ (1173.32). White powder (methanol), mp 206~210°C, $[\alpha]_D^{22} = +2.37^\circ$ ($c = 0.1$, methanol). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 216.

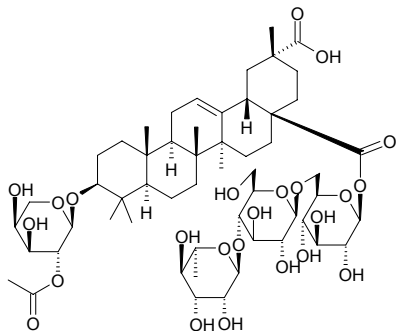
**22917 Yiyeliangwanoside IX**

[162795-92-8] $C_{55}H_{86}O_{24}$ (1131.28). Powder, mp 228~230°C (dec), $[\alpha]_D^{12} = -9.43^\circ$ ($c = 0.053$, MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

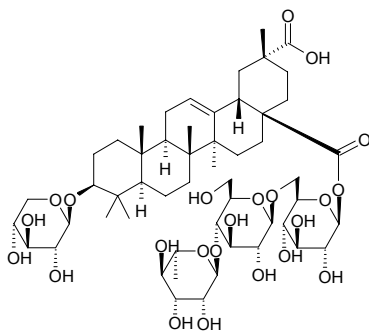


22918 Yiyeliangwenoside X

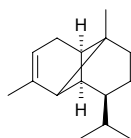
[162762-98-3] C₅₅H₈₆O₂₄ (1131.28). Powder, mp 210~212°C (dec), [α]_D²⁰ = -3.9° (c = 0.1, MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

**22919 Yiyeliangwenoside XI**

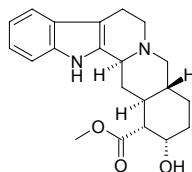
(-)-Yiyeliangwenoside XI [162811-51-0] C₅₃H₈₄O₂₃ (1089.25). Powder, mp 219~224°C, [α]_D¹² = -21.62° (c = 0.093, MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

**22920 α-Ylangene**

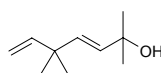
[14912-44-8] C₁₅H₂₄ (204.36). Pharm: Flavorant. Source: CI GUI *Juniperus oxycedrus*, XIANG YUAN *Citrus wilsonii*, YI LAN *Cananga odorata*, *Betula* sp. Ref: 658, 660.

**22921 Yohimbine**

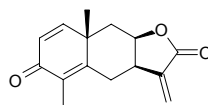
Corinine; Aphrodine; Quebrachine [146-48-5] C₂₁H₂₆N₂O₃ (354.45). Colorless acicular crystals, mp 241°C, [α]_D²⁰ = +50.9° ~62.2° (ethanol), slightly soluble in water, soluble in ethanol, chloroform, hot benzene.^[5507] Pharm: Anti-diuretic; anti-adrenaline; mydriatic; serotonin antagonist. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, GUANG LIANG LUO FU MU *Rauwolfia nitida*, KE NAN SHU *Corynanthe johimbe* (in 1896, isolated from the plant for the first time)^[5507], YIN DU LUO FU MU *Rauwolfia serpentina*, YUN NAN LUO FU MU *Rauwolfia yunnanensis*. Ref: 6, 658, 660, 1521, 5507.

**22922 Yomogi alcohol A**

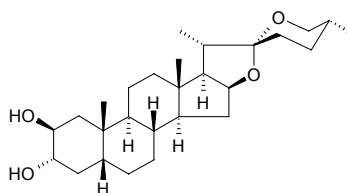
[26127-98-0] C₁₀H₁₈O (154.25). Source: AI YE *Artemisia argyi*. Ref: 6.

**22923 Yomogin**

[10067-18-2] C₁₅H₁₆O₃ (244.29). Colorless acicular crystals, mp 202~204°C. Pharm: Cytotoxic (A549 IC₅₀ = 0.14 μg/mL, HCT IC₅₀ = 1.3 μg/mL). Source: MAO LIAN HAO *Artemisia vestita*. Ref: 474, 1685.

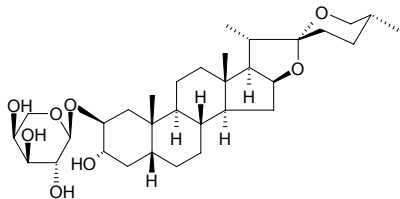
**22924 Yonogenin**

[2460-96-0] C₂₇H₄₄O₄ (432.65). mp 210~213°C. Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

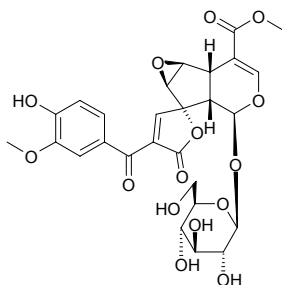


22925 Yononin

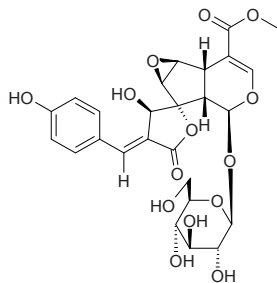
$C_{32}H_{52}O_8$ (564.77). mp 238~240°C (dec). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

**22926 Yopaoside A**

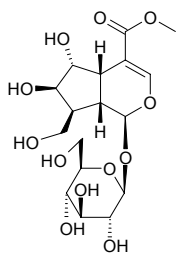
$C_{27}H_{28}O_{15}$ (592.52). Yellow amorphous powder, $[\alpha]_D^{19} = -19.3^\circ$ ($c = 2.1$, MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22927 Yopaoside B**

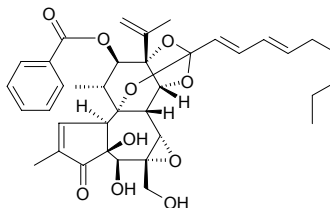
$C_{26}H_{28}O_{14}$ (564.50). Yellow amorphous powder, $[\alpha]_D^{19} = -66.1^\circ$ ($c = 1.6$, MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22928 Yopaoside C**

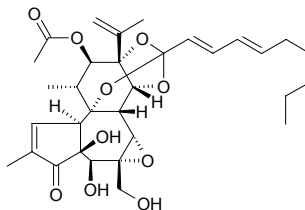
$C_{17}H_{26}O_{12}$ (422.39). Amorphous powder, $[\alpha]_D^{19} = -128.5^\circ$ ($c = 0.6$, MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22929 Yuanhuacin**

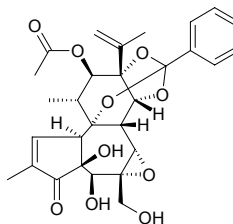
Yuanhuacin A $C_{37}H_{44}O_{10}$ (648.76). Pharm: Uterine stimulant (mus, *in vitro*); inhibits biosynthesis of DNA (mus embryo, *in vitro*, 20 μ g/mL); antineoplastic (mus, P₃₈₈). Source: HE SHUO YAO HUA *Wikstroemia chamaedaphne*, YUAN HUA *Daphne genkwa* (dried bud: content scope of 4 origins = 0.0022%~0.0094%, mean content = 0.0070%^[5508]), YUAN HUA GEN *Daphne genkwa*. Ref: 660, 5501, 5508.

**22930 Yuanhuadin**

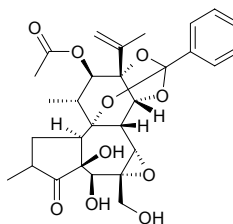
Yuanhuadin B $C_{32}H_{42}O_{10}$ (586.69). Source: YUAN HUA *Daphne genkwa*, YUAN HUA GEN *Daphne genkwa*. Ref: 660.

**22931 Yuanhuafin**

$C_{29}H_{32}O_{10}$ (540.57). Source: YUAN HUA *Daphne genkwa*. Ref: 660.

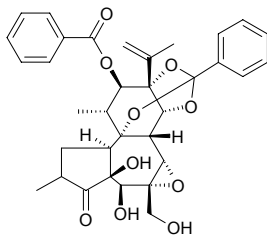
**22932 Yuanhuapin**

[104901-03-] $C_{29}H_{34}O_{10}$ (542.59). Source: YUAN HUA *Daphne genkwa*. Ref: 660.

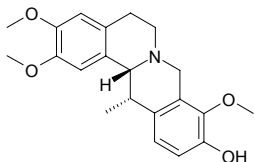


22933 Yuanhuatin

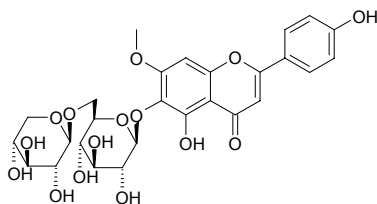
$C_{34}H_{36}O_{10}$ (604.66). Source: YUAN HUA *Daphne genkwa*. Ref: 660.

**22934 Yuanhunine**

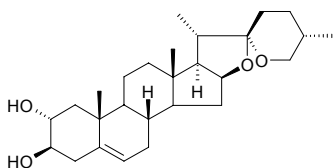
[104387-15-7] $C_{21}H_{25}NO_4$ (355.44). Colorless rhomboid crystals, mp 166~168°C, $[\alpha]_D^{23} = +229.7^\circ$ ($c = 0.16$, 95% ethanol). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 56, 1521.

**22935 Yuankanin**

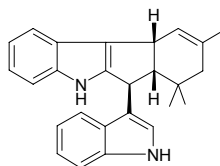
Genkwanin-5-O-xylosylglucoside $C_{27}H_{30}O_{15}$ (594.53). Source: ZONG BAO GE NI DI MU *Gnidia involucrata* (aerial parts). Ref: 3996.

**22936 Yuccagenin**

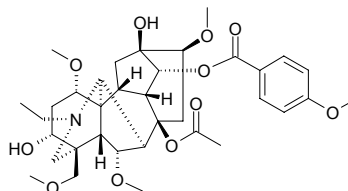
$C_{27}H_{42}O_4$ (430.63). mp 245°C. Source: HU LU BA *Trigonella foenum-graecum*, XIAN MAO *Curculigo orchoides*, Agave lecheguilla. Ref: 660, 2458, 2503.

**22937 Yuechukene**

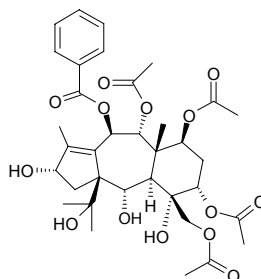
[96624-37-2] $C_{26}H_{26}N_2$ (366.51). White amorphous powder, mp 127°C, $[\alpha]_D = 0^\circ$. Pharm: Antiestrogenic; pregnancy terminator (pregnant rat, 2.5mg/kg orl). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*], XIAO GAN *Micromelum falcatum*. Ref: 600, 660, 900, 5501.

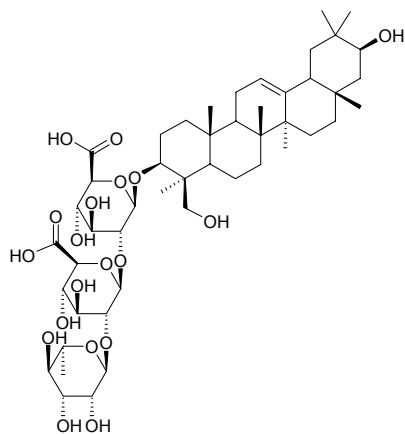
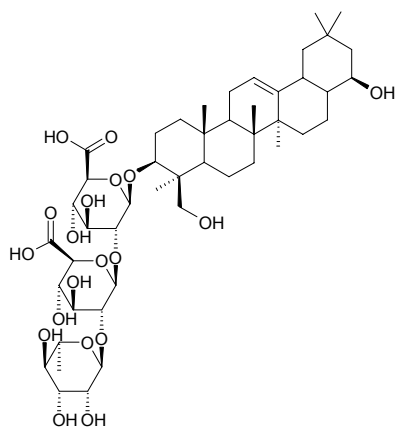
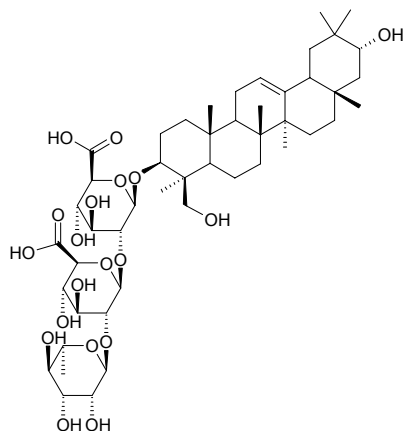
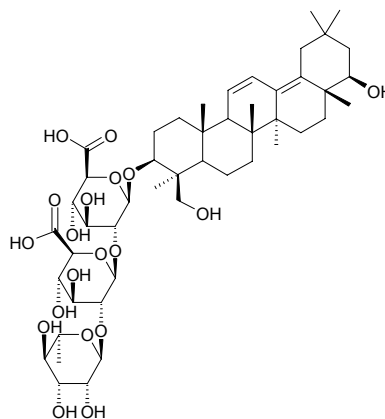
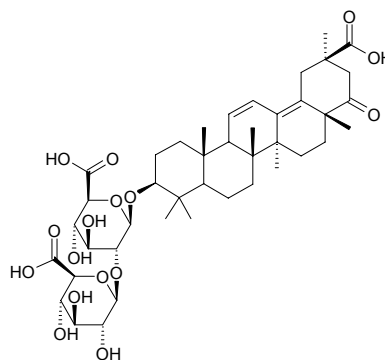
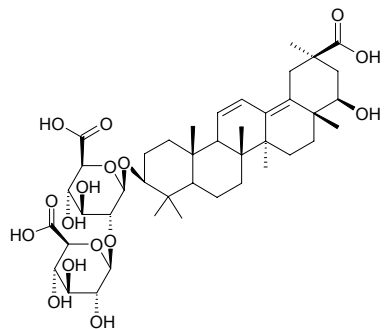
**22938 Yunaconitine**

[70578-24-4] $C_{35}H_{49}NO_{11}$ (659.78). Pharm: Anti-inflammatory (mus, swollen foot model, tampon granuloma model, inhibits blood capillary permeability and plano-leucocyte); analgesic (weak action); antipyretic (rat, yeast-induced); immunoenhancer (mus, ip, 50µg/kg, extends planted myocardial survival time in ear region); local anesthetic; LD₅₀ (mus, orl) = 2.97mg/kg, (rat, orl) = 540µg/kg. Source: BEI WU TOU *Aconitum kusnezoffii*, DIAN XI WU TOU *Aconitum bulleyanum*, GAO WU TOU *Aconitum sinomontanum*, GUA YE WU TOU *Aconitum hemsleyanum*, LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*], SONG PAN WU TOU *Aconitum sungpanense*, XI BAN WU TOU *Aconitum geniculatum*. Ref: 618, 660, 1587, 1588.

**22939 Yunantaxusin A**

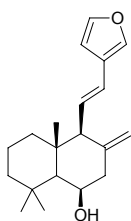
[160928-37-0] $C_{35}H_{46}O_{14}$ (690.75). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



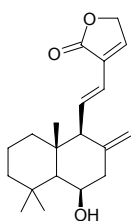
22940 Yunganoside A₁C₄₈H₇₆O₁₉ (957.13). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22941 Yunganoside B₁**C₄₇H₇₄O₁₉ (943.10). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22942 Yunganoside C₁**C₄₈H₇₆O₁₉ (957.13). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22943 Yunganoside D₁**C₄₈H₇₄O₁₉ (955.11). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22944 Yunganoside E₂**C₄₂H₆₀O₁₆ (820.94). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22945 Yunganoside F₂**C₄₂H₆₂O₁₆ (822.95). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.

22946 Yunnancoronarin A

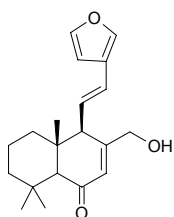
$C_{20}H_{28}O_2$ (300.44). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22947 Yunnancoronarin B**

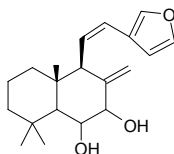
$C_{20}H_{28}O_3$ (316.44). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22948 Yunnancoronarin D**

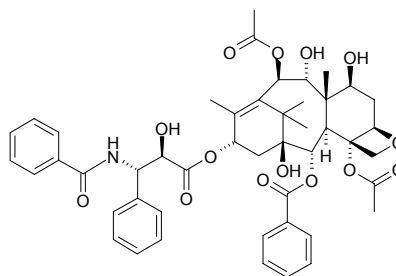
$C_{20}H_{26}O_3$ (314.43). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22949 Yunnancoronarin E**

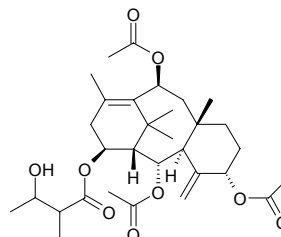
13 β -Furanolabda-8(17),11-dien-6 β ,7 α -diol $C_{20}H_{28}O_3$ (316.44). Colorless oil. Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 892.

**22950 Yunnanxamine**

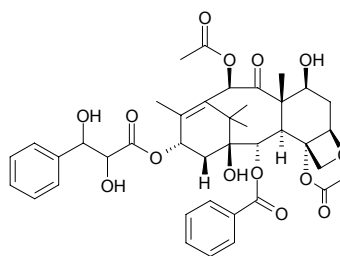
9-Deoxo-9 α -hydroxytaxol [148584-53-6] $C_{47}H_{53}NO_{14}$ (855.94). White powder, mp 174~176°C, $[\alpha]_D^{22} = -13.1^\circ$ ($c = 0.08$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316.

**22951 Yunnanxane**

Taxa-4(20),11-diene-2 α ,5 α ,10 β ,14 β -tetraol-2 α ,5 α ,10 β -triacetate-14 β - α -methyl- β -hydroxyl butyrate [139713-81-8] $C_{31}H_{46}O_9$ (562.71). Colorless transparent massive crystals, mp 165~167°C, $[\alpha]_D^{17} = +41.6^\circ$ (methanol). Pharm: Antineoplastic. Source: MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). Ref: 202, 900, 4611.

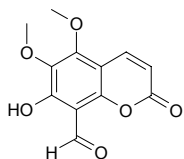
**22952 Yunnanxol**

13(2',3'-Dihydroxy-3'-phenyl)propionyl baccatin III $C_{40}H_{46}O_{14}$ (750.80). White powder, mp 154~157°C, $[\alpha]_D^{12} = -75.2^\circ$ ($c = 0.055$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316, 662.

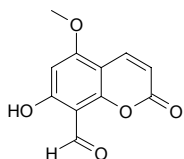


22953 Yunngnin A

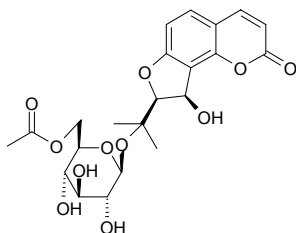
8-Formyl-7-hydroxy-5,6-dimethoxy coumarin C₁₂H₁₀O₆ (250.21). Colorless crystalline powder, mp 158~160°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22954 Yunngnin B**

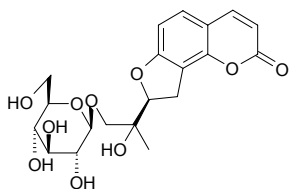
C₁₁H₈O₅ (220.18). Colorless crystalline powder, mp 179~180°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22955 Yunngnoside A**

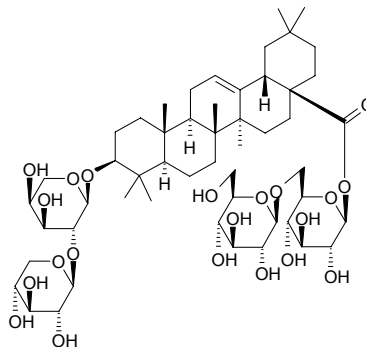
C₂₂H₂₆O₁₁ (466.45). Colorless crystalline powder, mp 240~242°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22956 Yunngnoside B**

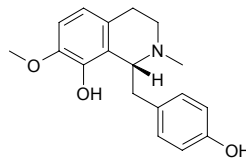
C₂₀H₂₄O₁₀ (424.41). Pale yellow viscous oil. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22957 Yuzhizioside**

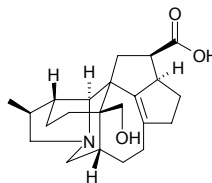
3-O-β-D-xylopyranosyl-(1→2)-α-L-arabinopyranosyl oleanolic acid 28-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyranoside C₅₂H₈₄O₂₁ (1045.24). White acicular crystals, mp 213~216°C. Source: BAI MU TONG *Akebia trifoliata* var. *australis*. Ref: 299.

**22958 Yuziphine**

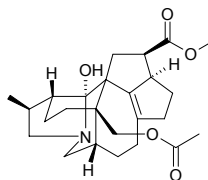
Juziphine C₁₈H₂₁NO₃ (299.37). Source: KU DI DING *Corydalis bungeana*. Ref: 660.

**22959 Yuzurimic acid B**

C₂₂H₃₁NO₃ (357.5). Microcrystals (MeOH), mp 253~255°C, [α]_D²² = +11° (c = 0.3, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.0013%). Ref: 4754.

**22960 Yuzurimine E**

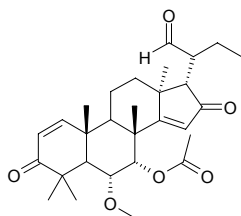
C₂₅H₃₅NO₅ (429.56). Colorless amorphous solid, [α]_D²² = -33° (c = 0.3, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.00042%). Ref: 4754.



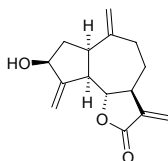
Z

22961 Zafaral

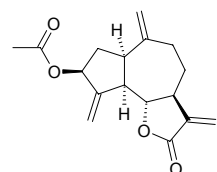
[24,25,26,27-Tetranorapotirucalla-(apoeupha)-6 α -methoxy-7 α -acetoxy-1,14-dien-3,16-dione-21-al] C₂₉H₄₀O₆ (484.64). Crystalline, mp 71~72°C, [α]_D²⁷ = +41.0° (*c* = 0.02, CHCl₃). Source: YIN DU LIAN *Azadiractica indica* (leaf). Ref: 3844.

**22962 Zaluzanin C**

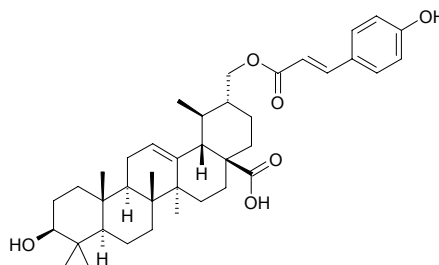
[16838-87-2] C₁₅H₁₈O₃ (246.31). mp 94–95°C. Pharm: Antineoplastic (mus P₃₈₈, 150mg/kg, biotic prolonged rate = 61%); cytotoxic (*in vitro*, HepG₂, CD₅₀ = 34 μ g/mL; HeLa, CD₅₀ = 22 μ g/mL; OVCAR-3, CD₅₀ = 15 μ g/mL; control Cisplatin, HepG₂, CD₅₀ = 2.8 μ g/mL; HeLa, CD₅₀ = 5.2 μ g/mL; OVCAR-3, CD₅₀ = 3 μ g/mL; without significant antibacterial effect)^[4720]. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0023%dw)^[4720], SHE TAI *Conocephalum conicum*. Ref: 5, 658, 4720.

**22963 Zaluzanin D**

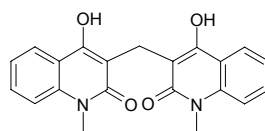
C₁₇H₂₀O₄ (288.35). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 2.5 μ mol/L)^[4248]. Source: SHE TAI *Conocephalum conicum*, YUE GUI YE *Laurus nobilis*. Ref: 660, 4248.

**22964 Zamanic acid**

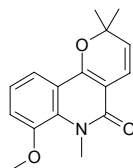
C₃₉H₅₄O₆ (618.86). [α]_D²⁷ = +26° (*c* = 0.15, CHCl₃). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf). Ref: 2385.

**22965 Zanthobisquinolone**

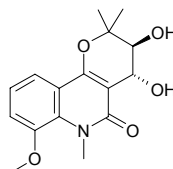
C₂₁H₁₈N₂O₄ (362.39). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**22966 Zanthobungeanine**

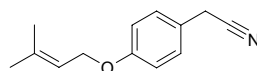
[64190-94-9] C₁₆H₁₇NO₃ (271.30). Pharm: Antifungal (yeast-like pathogenic bacteria, subcutaneous pathogenic bacteria, skin pathogenic bacteria). Source: HUA JIAO *Zanthoxylum bungeanum*. Ref: 658.

**22967 Zanthodioline**

C₁₆H₁₉NO₅ (305.33). Source: YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 2176.

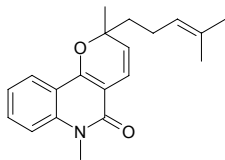
**22968 Zanthonitrile**

C₁₃H₁₃NO (201.27). Source: *Zanthoxylum* sp. Ref: 2176.

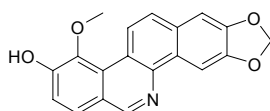


22969 Zanthosimuline

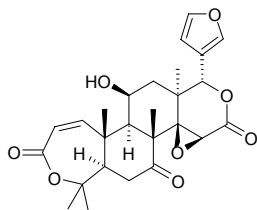
[155416-20-9] C₂₀H₂₃NO₂ (309.41). Oil, [α]_D = +7° (c = 0.1, chloroform). **Pharm:** Cytotoxic (ED₅₀ = 5.2–30.4 μmol/L); platelet aggregation inhibitor; DNA isomerase inhibitor. **Source:** YE HUA JIAO YE *Zanthoxylum simulans*, HUA JIAO *Zanthoxylum bungeanum*. **Ref:** 1052, 1120, 2176.

**22970 Zanthoxyline**

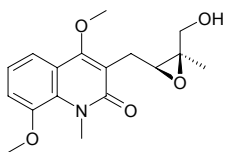
C₁₉H₁₃NO₄ (319.32). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**22971 Zapoterin**

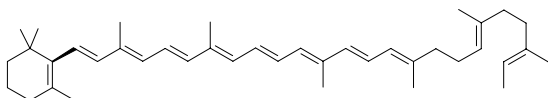
11-β-Hydroxybacunone. [35796-71-5] C₂₆H₃₀O₈ (470.52). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703.

**22972 Zascanol epoxide**

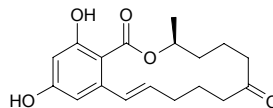
C₁₇H₂₁NO₅ (319.36). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**22973 β-Zeacarotene**

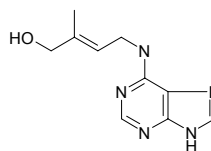
C₄₀H₅₈ (538.91). **Source:** HAI YUN *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*]. **Ref:** 660.

**22974 Zearalenone**

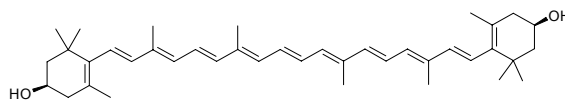
C₁₈H₂₂O₅ (318.37). **Pharm:** Induces geno-defect (animal model). **Source:** DAO CHI MEI JUN *Gibberella zeae*. **Ref:** 658.

**22975 Zeatin**

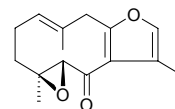
[1637-39-4] C₁₀H₁₃N₅O (219.25). mp 207–208°C. **Pharm:** Anti-caducity of plants; plant growth regulator; promotes cell division of plants; used in treatment of hepatitis virus. **Source:** HUO MA REN *Cannabis sativa*, MI HOU TAO *Actinidia chinensis*, BIAN DOU *Dolichos lablab*, TAO NAN GUA *Cucurbita pepo* var. *akoda*, XI HU LU *Cucurbita pepo*, YI NIAN SHENG SHAN DIAN *Mercurialis annua*, YU SHU SHU *Zea mays*. **Ref:** 6, 660, 658.

**22976 Zeaxanthin**

[144-68-3] C₄₀H₅₆O₂ (568.89). mp 215.5°C. **Pharm:** Yellow pigment. **Source:** CU LIU GUO *Hippophae rhamnoides*, GOU QI ZI *Lycium chinense*, HONG HAI JIAO *Capsicum annuum*, HUANG BAI HE *Lilium hansonii*, JIN YU *Carassius auratus*, JU PI *Citrus reticulata*, NING XIA GOU QI ZI *Lycium barbarum*, SU TIE SHU GUO *Cycas revoluta*, YU SHU SHU *Zea mays*, ZANG HONG HUA *Crocus sativus*, ZHI KE *Citrus aurantium*. **Ref:** 2, 658.

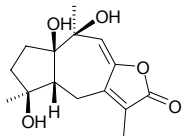
**22977 Zederone**

[7727-79-9] C₁₅H₁₈O₃ (246.31). mp 153.5–154.0°C. **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (29.9±2.4)%, control *L*-NMMA, 100 μmol/L, InRt = (79.2±0.9)%, *p*<0.01)^[4150]. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 1521, 4150.

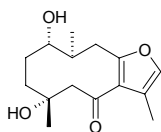


22978 Zedoalactone B

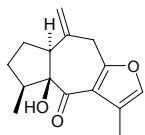
$C_{15}H_{20}O_5$ (280.32). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (7.1 \pm 7.6)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22979 Zedoarofuran**

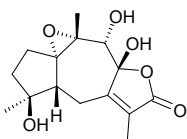
$C_{15}H_{22}O_4$ (266.34). Colorless oil, $[\alpha]_D^{24} = +26.0^\circ$ ($c = 0.10$, $CHCl_3$). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22980 Zedoarol**

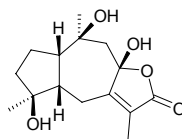
$C_{15}H_{18}O_3$ (246.31). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660.

**22981 Zedoarolide A**

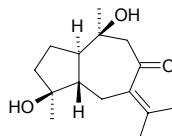
$C_{15}H_{20}O_6$ (296.32). Colorless oil, $[\alpha]_D^{18} = -32.5^\circ$ ($c = 0.10$, $CHCl_3$). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (-3.9 \pm 4.3)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22982 Zedoarolide B**

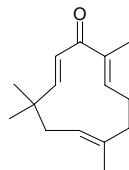
$C_{15}H_{22}O_5$ (282.34). Colorless oil, $[\alpha]_D^{21} = -20.6^\circ$ ($c = 1.80$, MeOH). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (10.9 \pm 4.4)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22983 Zedoarondiol**

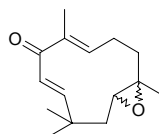
$C_{15}H_{24}O_3$ (252.36). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 μ mol/L, InRt = (10.3 \pm 2.0)%, control *L*-NMMA, 100 μ mol/L, InRt = (79.2 \pm 0.9)%, $p < 0.01$)^[4150]. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], YU JIN *Curcuma aromatica*. **Ref:** 660, 4150.

**22984 Zerumbone**

2,6,9-Humulatrien-8-one $C_{15}H_{22}O$ (218.34). **Pharm:** NO production inhibitor (cultured RAW264.7 macrophages, induced by LPS, $IC_{50} = 5.4\mu$ mol/L, control *L*-NMMA, $IC_{50} = 21.3\mu$ mol/L)^[4481], CYP3A4 inhibitor ($IC_{50} = 21.8\mu$ mol/L, control Ketoconazole, $IC_{50} = 0.245\mu$ mol/L)^[4669], CYP2D6 inhibitor inactive ($IC_{50} > 100\mu$ mol/L, control Quinidine, $IC_{50} = 0.078\mu$ mol/L)^[4669], antineoplastic (inhibits growth of P388D1 cells, $IC_{50} = 22.6\mu$ g/mL, control Adriamycin, $IC_{50} = 0.20\mu$ g/mL)^[5067]. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.0025%dw), HONG QIU JIANG *Zingiber zerumbet* (rhizome), YU YE DING XIANG *Syringa pinnatifolia*. **Ref:** 1521, 4481, 4669, 5067.

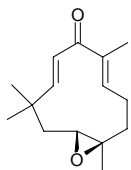
**22985 Zerumbone epoxide**

2,3-Epoxy-6,9-humuladien-8-one $C_{15}H_{22}O_2$ (234.34). **Pharm:** CYP3A4 inhibitor ($IC_{50} = 48.4\mu$ mol/L, control Ketoconazole, $IC_{50} = 0.245\mu$ mol/L)^[4669]; CYP2D6 inhibitor inactive ($IC_{50} > 100\mu$ mol/L, control Quinidine, $IC_{50} = 0.078\mu$ mol/L)^[4669]. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.0050%dw), HONG QIU JIANG *Zingiber zerumbet*. **Ref:** 1521, 4669.

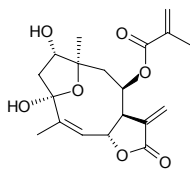


22986 Zerumboneoxide

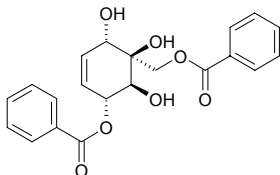
$C_{15}H_{22}O_2$ (234.34). Colorless crystals, mp 96–97°C, $[\alpha]_D^{20} = 0.0^\circ$ ($c = 0.24$, $CHCl_3$). **Pharm:** NO production inhibitor (cultured RAW264.7 macrophages, induced by LPS, $IC_{50} = 23.5\mu\text{mol/L}$, control *L*-NMMA, $IC_{50} = 21.3\mu\text{mol/L}$)¹. **Source:** HONG QIU JIANG *Zingiber zerumbet* (rhizome). **Ref:** 4481.

**22987 Zexbrevin B**

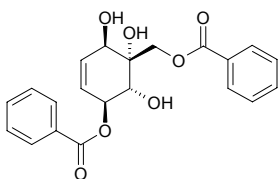
[34302-19-7] $C_{19}H_{24}O_7$ (364.40). **Pharm:** Antineoplastic; cytotoxic. **Source:** DUAN YE PENG QI JU *Zexmenia brevifolia*. **Ref:** 658.

**22988 Zeylenol**

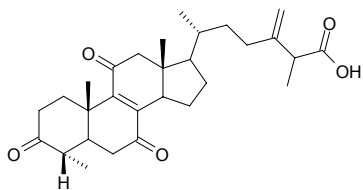
$C_{21}H_{20}O_7$ (384.39). **Pharm:** Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell, $IC_{50} = 25\mu\text{g/mL}$, SK-MES-1 bronchogenic carcinoma cell, $IC_{50} = 23\mu\text{g/mL}$, NCI-H446 bronchogenic carcinoma cell, $IC_{50} = 26\mu\text{g/mL}$). **Source:** LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). **Ref:** 4481.

**22989 (+)-Zeylenol**

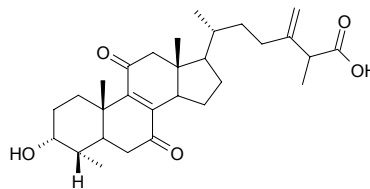
$C_{21}H_{20}O_7$ (384.39). **Source:** BI CHENG QIE *Piper cubeba*. **Ref:** 660.

**22990 Zhankuic acid A**

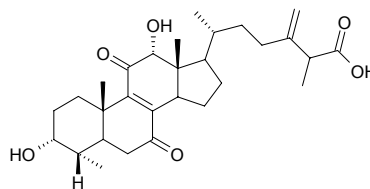
$C_{29}H_{40}O_5$ (468.64). **Pharm:** Anti-inflammatory. **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

**22991 Zhankuic acid B**

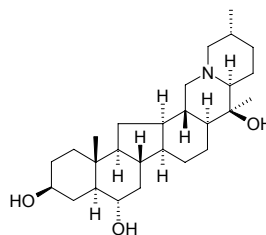
$C_{29}H_{42}O_5$ (470.66). **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

**22992 Zhankuic acid C**

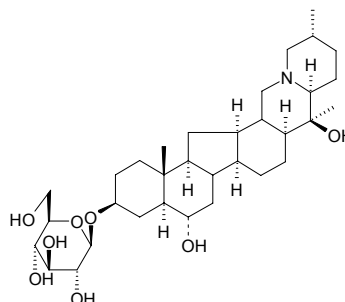
$C_{29}H_{42}O_6$ (486.65). **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

**22993 Zhebeinine**

5 α ,14 α -22 α -Cevanine-3 β ,6 α ,20 β -triol [135636-54-3] $C_{27}H_{45}NO_3$ (431.66). White acicular crystals, mp 222–224°C, $[\alpha]_D^{25} = -21.3^\circ$ ($c = 0.5$, ethanol). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 186, 528.

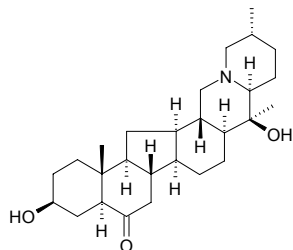
**22994 Zhebeininoside**

$C_{33}H_{55}NO_8$ (593.81). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 660.

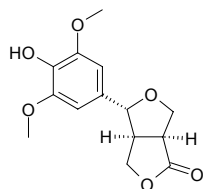


22995 Zhebeinone

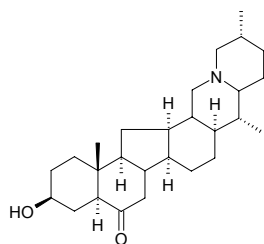
5 α ,14 α -Cevanine-3 β ,20 β -dihydroxy-6-one C₂₇H₄₃NO₃ (429.65). Colorless crystals (acetone), mp 181~183°C, [α]_D¹⁰ = -48.76° (c = 0.035, chloroform). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 233, 660

**22996 Zhebeiresinol**

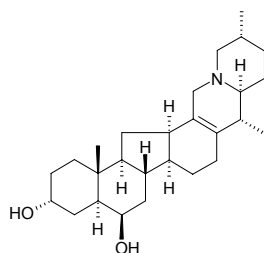
2-(3',5'-Dimethoxy-4'-hydroxyphenyl)-3,7-dioxabicyclo[3.3.0]octan-6-one. C₁₄H₁₆O₆ (280.28). Yellowish prismatic crystals, mp 193~194°C. Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 262.

**22997 Zhebeirine**

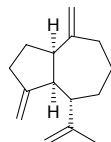
C₂₇H₄₃NO₂ (413.65). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22998 Ziebeimine**

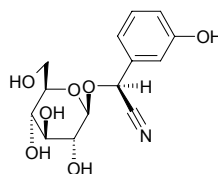
5 α ,14 α -Cevanine-13,17-dehydro-3 α ,6 β -diol C₂₇H₄₃NO₂ (413.65). Colorless crystals, mp 186~188°C, [α]_D²³ = +10.6° (c = 0.09 CHCl₃). Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 136.

**22999 Zierene**

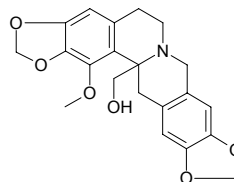
(+)-(1R*,5R*,6S*)-Zierene C₁₅H₂₂ (202.34). Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**23000 Zierin**

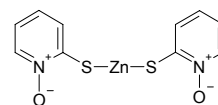
[645-02-3] C₁₄H₁₇NO₇ (311.30). Pharm: Toxin. Source: TUN CAO ZI WAN *Aster ptarmicoides*, TIAN YE JI DOU *Oxytropis campestris*, XI YANG JIE GU MU *Sambucus nigra*. Ref: 658.

**23001 Zijinlongine**

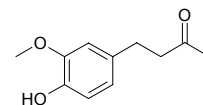
[133086-83-6] C₂₁H₂₁NO₆ (383.40). Colorless lamellar crystals, mp 166~167°C. Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 162.

**23002 Zincpolyanemine**

[13463-41-7] C₁₀H₈N₂O₂S₂Zn (317.69). Pharm: Antibacterial; antifungal; antimalarial (rat malaria, ED = 50mg/kg). Source: LING SHUI AN LUO *Polyalthia nemoralis*. Ref: 658, 1271.

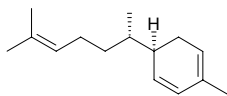
**23003 Zingerone**

[122-48-5] C₁₁H₁₄O₃ (194.23). mp 40~41°C, bp 190°C/16mmHg. Pharm: Anesthetic; antemetic; antipyretic (rat, 100~150mg/kg, body temperature goes down 2~3°C); paralyzes motor nerve (iv). Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale* (rhizome: content = 0.48%^[5508]). Ref: 2, 658, 5508.

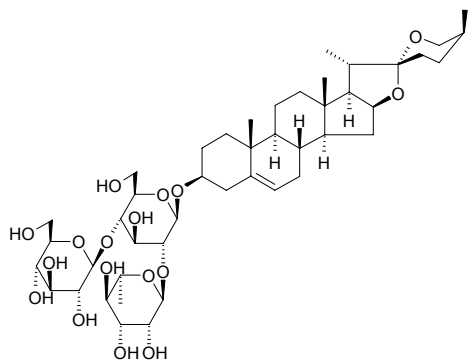


23004 Zingiberene

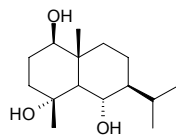
[*S*-(*R**,*S**)]-5-(1,5-Dimethyl-4-hexenyl)-2-methyl-1,3-cyclohexadiene.
[495-60-3] C₁₅H₂₄ (204.36). (–) bp 134°C/14mmHg. **Pharm:** Analgesic.
Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*,
Curcuma sp. **Ref:** 2, 658.

**23005 Zingiberoside A₃**

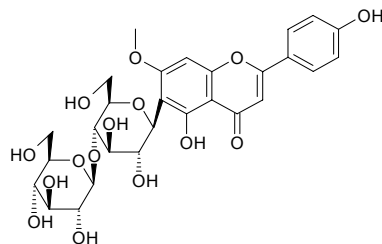
Balanitin 6 [99661-97-9] C₄₅H₇₂O₁₇ (885.05). Acicular crystals (ethanol), mp 278–280°C; 282–289°C, [α]_D²⁹ = –89° (*c* = 0.67, pyridine). **Pharm:** Cytotoxic (mus P₃₈₈, ED₅₀ = 0.21 µg/mL). **Source:** DUN YE SHU YU *Dioscorea zingiberensis*. **Ref:** 901, 1051.

**23006 Zingibertriol**

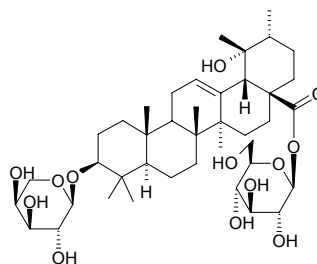
C₁₅H₂₈O₃ (256.39). **Source:** ZHOU YE MU LAN *Magnolia praecoccissima* (seed). **Ref:** 4181.

**23007 Zivulgarin**

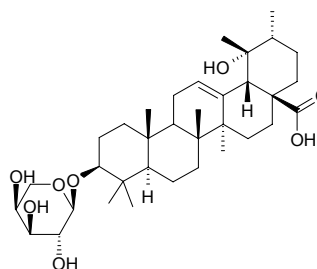
4"-β-D-Glucopyranosyl swertisin [108657-24-5] C₂₈H₃₂O₁₅ (608.56).
Yellowish acicular crystals, mp 275–277°C (methanol). **Source:** SUAN ZAO
REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 73.

**23008 Ziyu glycoside I**

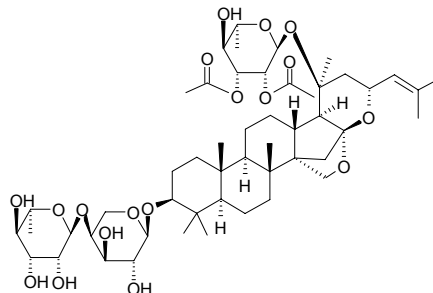
C₄₁H₆₆O₁₃ (766.98). mp 256–260°C. **Source:** DI YU *Sanguisorba officinalis*.
Ref: 6.

**23009 Ziyu glycoside II**

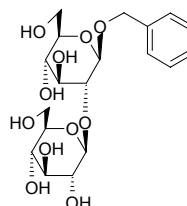
C₃₅H₅₆O₈ (604.83). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 6.

**23010 Ziziphin**

[73667-51-3] C₅₁H₈₀O₁₈ (981.20). **Pharm:** Flavorant, conditioning agent.
Source: DA ZAO *Ziziphus jujuba*. **Ref:** 658, 1521.

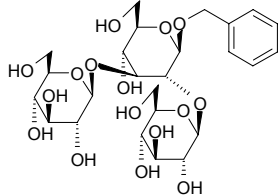
**23011 Zizybeoside I**

[76819-28-8] C₁₉H₂₈O₁₁ (432.43). **Source:** CHA RU SHI WAN CUO
Asystasia intrusa, WU CI ZAO *Ziziphus jujuba* var. *inermis*. **Ref:** 2, 2589.

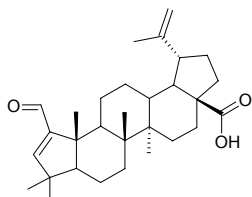


23012 Zizyboaside II

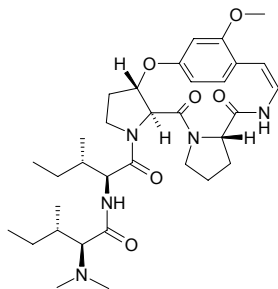
[81417-79-0] C₂₅H₃₈O₁₆ (594.57). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2.

**23013 Zizyberenic acid**

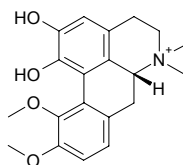
C₃₀H₄₄O₃ (452.68). White powder, mp 214~216°C, [α]_D¹⁸ = +24° (c = 0.5, MeOH). Pharm: Cytotoxic (K562, ED₅₀ > 20 μmol/L, control Adriamycin, ED₅₀ = (0.09±0.03) μmol/L; B16(F-10), ED₅₀ > 20 μmol/L, Adriamycin, ED₅₀ = (0.06±0.10) μmol/L; SK-MEL-2, ED₅₀ > 20 μmol/L, Adriamycin, ED₅₀ = (0.09±0.3) μmol/L; PC3, ED₅₀ = (19.9±0.9) μmol/L, Adriamycin, ED₅₀ = (0.83±0.18) μmol/L; LOX-IMVI, ED₅₀ = (15.0±1.3) μmol/L, Adriamycin, ED₅₀ = (0.38±0.33) μmol/L; A549, ED₅₀ > 20 μmol/L, Adriamycin, ED₅₀ = (0.67±0.21) μmol/L). Source: DA ZAO *Ziziphus jujuba*. Ref: 5479.

**23014 Zizyphine A**

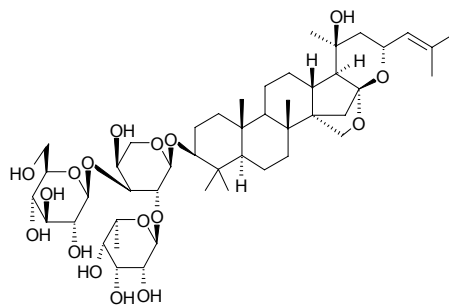
[51059-42-8] C₃₃H₄₉N₅O₆ (611.79). Pharm: Antibacterial (gram-positive bacteria and low fungi); inhibits oxidative phosphorylation (plants). Source: XIAO GUO ZAO *Ziziphus oenoplia* (in 1965, the compound was isolated from the plant by E.Zbiral et al.)^[5505]. Ref: 658, 5505.

**23015 (R)-Zizyphusine**

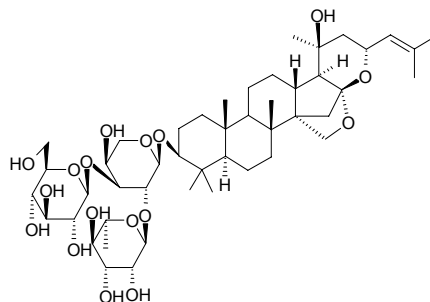
C₂₀H₂₄NO₄⁺ (342.42). Source: DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**23016 Zizyphussaponin I**

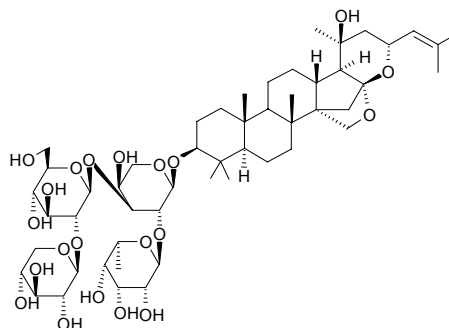
[77943-56-7] C₄₇H₇₆O₁₇ (913.12). Colorless acicular crystals, mp 269~272°C (methanol). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.1 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 970, 992.

**23017 Zizyphussaponin II**

[77943-83-0] C₄₇H₇₆O₁₇ (913.12). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.1 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 1754.

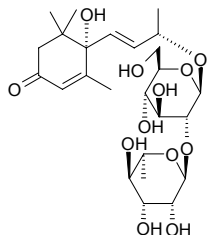
**23018 Zizyphussaponin III**

[77943-54-5] C₅₂H₈₄O₂₁ (1045.24). Colorless lamellar crystals, mp 229~233°C (pyridine-water). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.2 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 970, 992.

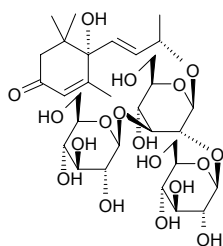


23019 Zizyoside I

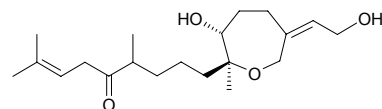
[425-28-7] C₂₅H₄₀O₁₂ (532.59). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00020%)^[4692], WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2, 4692.

**23020 Zizyoside II**

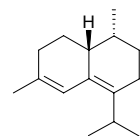
[81425-29-8] C₃₁H₅₀O₁₈ (710.73). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2.

**23021 Zoapatanol**

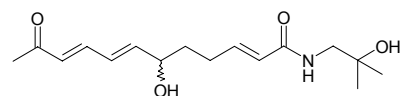
[71117-51-6] C₂₀H₃₄O₄ (338.49). Pharm: Anti-pregnancy. Source: *Montanoa tomentosa*. Ref: 658.

**23022 Zonarene**

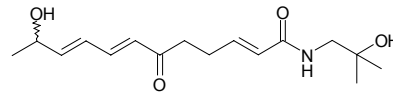
[41929-05-9] C₁₅H₂₄ (204.36). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**23023 ZP-amide A**

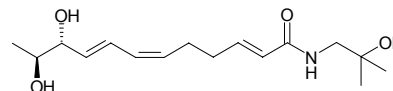
(6*RS*)-(2*E*,7*E*,9*E*)-6-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-11-oxo-2,7,9-dodecatrienamide C₁₆H₂₅NO₄ (295.38). Unstable colorless syrup, [α]_D = 0° (c = 2, acetone). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23024 ZP-amide B**

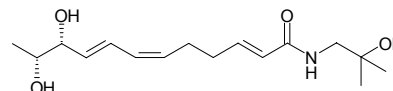
(11*RS*)-(2*E*,7*E*,9*E*)-11-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-6-oxo-2,7,9-dodecatrienamide C₁₆H₂₅NO₄ (295.38). Unstable colorless syrup, [α]_D = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23025 ZP-amide C**

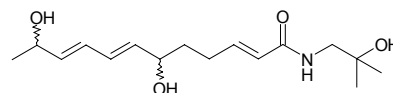
(10*RS*,11*RS*)-(2*E*,6*Z*,8*E*)-10,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide C₁₆H₂₇NO₄ (297.40). Unstable colorless syrup, [α]_D = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23026 ZP-amide D**

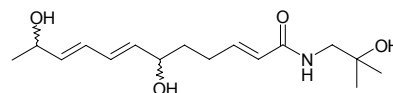
(10*RS*,11*RS*)-(2*E*,6*Z*,8*E*)-10,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide C₁₆H₂₇NO₄ (297.40). Unstable colorless syrup, [α]_D = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23027 ZP-amide E**

(6*RS*,11*RS*)-(2*E*,7*E*,9*E*)-6,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,7,9-dodecatrienamides C₁₆H₂₇NO₄ (297.40). Unstable colorless syrup, [α]_D = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

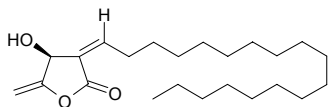
**23028 ZP-amide F**

(6*RS*,11*RS*)-(2*E*,7*E*,9*E*)-6,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,7,9-dodecatrienamides C₁₆H₂₇NO₄ (297.40). Unstable colorless syrup, [α]_D = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

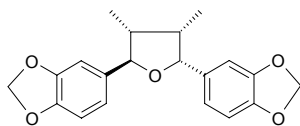


23029 Zuihoenalide

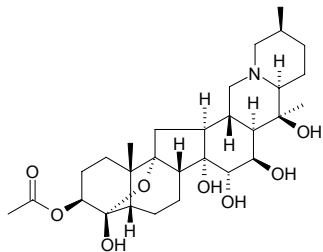
(4*S*,3*Z*)-4-Hydroxy-5-methylene-3-octadecylidene-di-hydro-furan-2-one
 $C_{23}H_{40}O_3$ (364.57). Colorless oil, $[\alpha]_D^{25} = -50.2^\circ$ ($c = 0.015$, $CHCl_3$). **Pharm:**
 Cytotoxic inactive (*in vitro*, 20 μ g/mL, NUGC-3 cell line, HONE-1 cancer cell
 line). **Source:** TAI WAN RUI FANG RUN NAN *Machilus zuihoensis* (stem
 wood). **Ref:** 5287.

**23030 (-)-Zuonin A**

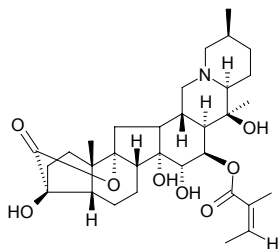
$C_{20}H_{20}O_5$ (340.38). **Pharm:** NO production inhibitor (mus, macrophage-like
 cell line RAW264.7 activated by LPS/IFN, $IC_{50} = 88.5 \mu$ mol/L, control
 Quercetin, $IC_{50} = 26.8 \mu$ mol/L). **Source:** HAI FENG TENG *Piper kadsura* [Syn.
Piper futokadsura]. **Ref:** 2537.

**23031 Zygacine**

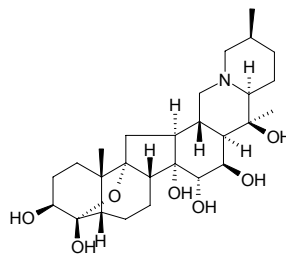
[2777-79-9] $C_{29}H_{45}NO_8$ (535.68). **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

**23032 Zygadenilic acid δ -lactone-16-angelate**

$C_{32}H_{47}NO_8$ (573.73). mp 235°C. **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

**23033 Zygadenine**

[545-45-9] $C_{27}H_{43}NO_7$ (493.65). **Pharm:** Antineoplastic; antihypertensive.
Source: BAI LI LU *Veratrum album*. **Ref:** 658.



(The end of isolated compounds)

References for Isolated Compounds

Abbreviations:

ABY = *Acta Botanica Yunnanica* (Yunnan Zhiwu Yanjiu)

APS = *Acta Pharmaceutica Sinica* (Yaoxue Xuebao)

CCMM = *China Journal of Chinese Materia Medica* (Zhongguo Zhongyao Zazhi)

CTHD = *Chinese Traditional and Herbal Drugs* (Zhongcaoyao)

JNP = *Journal of Natural Products*

NPRD = *Natural Product Research and Development* (Tianran Chanwu Yanjiu Yu Kaifa)

ZZY = *Chinese Pharmaceutical Journal* (Zhongguo Yaoxue Zazhi)

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TCM Plants and Congeners

In this part of the encyclopedia, 2923 TCM original plants (including a few of animals) and 4003 their congeners (with small number of other medicinal plants) list in alphabetical order of *Latin names*. Total number of plants described in the encyclopedia are 6926, which are coded as T0001 to T6926.

For each TCM plant entry in 2923 TCM plants, data terms are listed as following format:

Plant code (a specific code from T0001 to T6926)
Latin name (family); PIN-YIN name; English name.
 Equivalent plant: if any, a sequence of Latin names.
Used part: a particular description for the plant.
TCM Effects: a sequence of traditional TCM effects terms.
TCM Indications: a sequence of traditional TCM indications terms.
Isolated compounds: a sequence of compounds codes.

For each congeneric plant and other medicinal plant entry in 4003 plants, data terms are listed as following format:

Plant code (a specific code from T0001 to T6926)
Latin name (family); PIN-YIN name; English name.
Isolated compounds: a sequence of compounds codes.

A

T0001 *Abelmoschus manihot* (Malvaceae); HUANG SHU KUI HUA; Setose Abelmoschus. Used part: flower. TCM Effects: To disinhibit urine and free strangury, quicken blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Strangury syndrome, blood ejection, spontaneous external bleeding, flooding and spotting [= metrorrhagia and metrostaxis], retention of afterbirth, swollen welling abscess and sore toxin, burns and scalds. Isolated compounds: 10887, 11642, 15170, 18317, 18390.

T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*] (Malvaceae); HUANG KUI; Musk-mallow. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote lactation and free stool. TCM Indications: Ardent fever incessant, lung heat cough, dysentery, constipation, postpartum galactostasis, fracture, welling abscess with pus swelling, innominate toxin swelling, burns and scalds. Isolated compounds: 1027, 7734, 19987.

T0003 *Abies alba* (Pinaceae); OU ZHOU LENG SHAN; European Silver Fir. Isolated compounds: 12843.

T0004 *Abies balsamea* (Pinaceae); XIANG ZHI LENG SHAN; Balsam Fir. Isolated compounds: 3241, 3242, 3243, 4935, 7751, 9669, 11987.

T0005 *Abies koreana* (Pinaceae); CHAO XIAN LENG SHAN; Korean Fir. Isolated compounds: 16370, 19622, 19983, 19987.

T0006 *Abies nephrolepis* (Pinaceae); CHOU LENG SHAN; Khingan Fir. Used part: leaf and bark. TCM Effects: To dispel damp and relieve pain. TCM Indications: Pain in lumbus and legs. Isolated compounds: 1935, 6201.

T0007 *Abies sibirica* (Pinaceae); XI BO LI YA LENG SHAN; Siberian Fir. Isolated compounds: 1935, 15332.

T0008 *Abies* sp. (Pinaceae). Isolated compounds: 3194, 3981, 13594, 18003.

T0009 *Abies tazaotana* (Pinaceae). Isolated compounds: 16088.
Abrus cantoniensis = *Abrus fruticosus*

T0010 *Abrus fruticosus* [Syn. *Abrus cantoniensis*] (Fabaceae); JI GU CAO; Canton Abrus. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dissipate stasis and relieve pain. TCM Indications:

- Icterohepatitis, stomachache, wind-damp bone pain, stasis pain from knocks and falls, mammary welling abscess. Isolated compounds: 13, 14, 15, 16, 17, 18, 19, 20, 22, 31, 12113, 12307, 20083, 20127.
- T0011 *Abrus precatorius* (Fabaceae); XIANG SI TENG; Coralhead Plant Vine. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Common cold, swelling pain in throat, lung heat cough, mammary welling abscess, sore and boil, hepatitis. Isolated compounds: 11, 24, 26, 27, 30, 32, 33, 34, 35, 18576, 18582.
- T0012 *Abrus precatorius* (Fabaceae); XIANG SI ZI; Coralhead Plant. Used part: ripe seed. TCM Effects: To clear heat and resolve toxin, dispel phlegm, kill worms, check vomiting. TCM Indications: Vomiting, welling abscess, parotitis, scab and lichen, wind-damp bone pain. Isolated compounds: 12, 13, 21, 23, 24, 25, 27, 28, 29, 30, 31, 36, 1113, 3040, 3575, 4473, 8095, 8846, 9267, 10877, 12114, 14428, 17772, 20083, 20084, 20237, 20369, 21662, 21978.
- T0013 *Abuta imene* (Menispermaceae); YI MEI NI A BU TA CAO. Isolated compounds: 15792.
- T0014 *Abuta rufescens* (Menispermaceae); HONG A BU TA CAO. Isolated compounds: 15792.
- T0015 *Abutilon indicum* (Malvaceae); MO PAN CAO; Indian Abutilon. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough and transform phlegm, resolve toxin and disperse swelling. TCM Indications: Common cold, fever, cough, diarrhea, otitis media, deafness, pharyngitis, parotitis, urinary tract infection, swelling toxin of sore and welling abscess, knocks and falls. Isolated compounds: 4446, 8965, 8966.
- T0016 *Acacia arabica* (Fabaceae); A LA BO JIN HE HUAN; Arabian Acacia. Isolated compounds: 7441, 8095, 12714, 17174.
- T0017 *Acacia auriculaeformis* (Fabaceae); ER XING JIN HE HUAN; Auriculate Acacia. Isolated compounds: 2016.
- T0018 *Acacia caffra* (Fabaceae). Isolated compounds: 6982, 6984, 6986, 16197.
- T0019 *Acacia catechu* (Fabaceae); HAI ER CHA; Catechu. Used part: dry decocted paste of branch and trunk without bark. TCM Effects: To contract damp, close sores and engender flesh. TCM Indications: Enduring sores, eczema, mouth sore, painful wound from knocks and falls, bleeding due to external injury, suppurative infection. Isolated compounds: 677, 3308, 6853, 6854, 7802, 18305.
- T0020 *Acacia dealbata* (Fabaceae); YIN BAI JIN HE HUAN; Silver Wattle. Isolated compounds: 7821.
- T0021 *Acacia galpinii* (Fabaceae). Isolated compounds: 6982, 6983, 6984, 6985, 6986, 6987, 16197, 16198.
- T0022 *Acacia karroo* (Fabaceae); KA LUO JIN HE HUAN; Karroo Acacia. Isolated compounds: 22122.
- T0023 *Acacia luederitzii* (Fabaceae); LE SHI JIN HE HUAN; Luederitz Acacia*. Isolated compounds: 9079.
- T0024 *Acacia mearnsii* (Fabaceae); HEI JING SHU; Wattle. Isolated compounds: 18857, 18858.
- T0025 *Acacia melanoxylon* (Fabaceae); HEI MU JIN HE HUAN; Australian Blackwood. Isolated compounds: 62, 10887.
- T0026 *Acacia mellifera* (Fabaceae); JU MI JIN HE HUAN; Honeyed Acacia. Isolated compounds: 2331, 2334, 2338, 10340, 10342, 10573, 13097, 13098, 16373.
- T0027 *Acacia mollissima* (Fabaceae); ROU JIN HE HUAN; Black Wattle. Isolated compounds: 14899.
- T0028 *Acacia nilotica* (Fabaceae); A LA BO JIAO JIN HE HUAN; Gum-arabic Tree. Isolated compounds: 205, 3308, 3551, 5510, 6853, 6921, 12715, 18317, 18856.
- T0029 *Acacia sieberiana* (Fabaceae); XI BO JIN HE HUAN; Sieber Acacia*. Isolated compounds: 9467, 17863.
- T0030 *Acacia* sp. (Fabaceae). Isolated compounds: 862, 1057, 1282, 5351, 6533, 7482, 9467, 13296.
- T0031 *Acacia spirorbis* (Fabaceae); LUO XUAN JIN HE HUAN; Spiral Acacia*. Isolated compounds: 9646.
- T0032 *Acacia* spp. (Fabaceae). Isolated compounds: 59, 9598, 17083.
- T0033 *Acacia tortilis* ssp. *raddiana* (Fabaceae); NIU XUAN JIN HE HUAN; Tortile Acacia*. Isolated compounds: 18454, 18455.
- T0034 *Acacia victoria* (Fabaceae); WEI DUO LI YA JIN HE HUAN; Bramble Acacia. Isolated compounds: 2036, 2038.
- T0035 *Acalypha hispida* (Euphorbiaceae); CU YING MAO TIE XIAN CAI; Chenille Plant, Red-hot Cat's-tail. Isolated compounds: 4440.
- T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*] (Araliaceae); HONG MAO WU JIA PI; Girald Acanthopanax Root-bark. Used part: stem cortex or root cortex. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and disinhibit water. TCM Indications: Wind-cold-damp impediment, hypertonicity and pain, limp wilting sinew and bone, inability of legs and knees, pain in heart and abdomen, mounting *qi* [=hernia], knocks and falls, fracture, vacuity and edema. Isolated compounds: 618, 3342, 9276, 16053, 20569.
- T0037 *Acanthopanax giraldii* var. *hispidus* (Araliaceae); MAO GENG HONG MAO WU JIA; Hispidus Girald Acanthopanax. Isolated compounds: 11465.
- Acanthopanax giraldii* var. *inermis* = *Acanthopanax giraldii*
- T0038 *Acanthopanax gracilistylus* (Araliaceae); WU JIA PI; Slenderstyle Acanthopanax Root-bark. Equivalent plant: *Acanthopanax sessiliflorus*, *Acanthopanax senticosus*. Used part: root cortex. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen sinews and bones, quicken blood and vessels. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, limp wilting sinew and bone, infant retardation of walking, vacuity and marked emaciation, knocks and falls, fracture, edema, beriberi, damp itchy in genitals. Isolated compounds: 6754, 12893, 14717, 19777, 19983, 20280, 20569.
- T0039 *Acanthopanax japonicus* (Araliaceae); RI BEN WU JIA; Japanese Acanthopanax*. Isolated compounds: 64, 65, 66, 67, 68, 69, 70, 71, 72.
- T0040 *Acanthopanax koreanum* (Araliaceae); CHAO XIAN WU JIA; Korean Acanthopanax*. Isolated compounds: 73, 74, 75, 79, 82, 83, 20486.
- T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA; Manyprickle Acanthopanax. Used part: root and rhizome. TCM Effects: To boost *qi* and fortify spleen, supplement kidney and quiet spirit, increase appetite. TCM Indications: Spleen-kidney *yang* vacuity, vacuity and hypodynamia, inappetence, aching in lumbus and knees, insomnia and frequent dreaming. Isolated

- compounds: 1102, 1576, 3781, 3782, 3783, 4680, 6115, 6204, 6756, 7439, 9265, 11428, 11429, 11503, 12916, 13641, 15942, 17412, 18317, 18734, 19777, 19983, 20280, 20446, 20569.
- T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA PI; Manyprickle Acanthopanax Root-bark. Used part: root cortex. TCM Effects: See *Acanthopanax gracilistylus*. TCM Indications: See *Acanthopanax gracilistylus*. Isolated compounds: 7439.
- T0043 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA YE; Manyprickle Acanthopanax Leaf. Isolated compounds: 819, 3519, 3520, 6755, 6756, 15365, 16050, 19983, 22270.
- T0044 *Acanthopanax sessiliflorus* (Araliaceae); WU GENG WU JIA PI; Sessileflower Acanthopanax Root-bark. Used part: root cortex. TCM Effects: See *Acanthopanax gracilistylus*. TCM Indications: See *Acanthopanax gracilistylus*. Isolated compounds: 85, 86, 87, 88, 3040, 3519, 3520, 4680, 16050, 19427, 19777, 19983, 19983, 20369, 20556, 22270.
- T0045 *Acanthopanax trifoliatum* (Araliaceae); CI SAN JIA; Trifoliolate Acanthopanax. Used part: root or root cortex. TCM Effects: To clear heat and resolve toxin, dispel wind and disinherit damp, soothe sinews and quicken blood. TCM Indications: Common cold with fever, sore pharynx, headache, chest pain due to cough, pain in stomach duct, diarrhea and dysentery, pain in rib-side, jaundice, stone strangury, vaginal discharge, wind-damp impediment pain, aching in lumbus and legs, hypertonicity of sinews and bones, fracture due to knocks and falls, epidemic parotitis, mammary welling abscess, toxin swelling of sores, snake or insect bites. Isolated compounds: 91, 92, 93, 11753, 12178, 13264, 17371, 20713.
- T0046 *Acanthospermum glabratum* (Asteraceae); GUANG CI BAO JU; Glabrous Acanthospermum*. Isolated compounds: 76, 78, 84, 89, 90, 5537, 8489, 10148.
- T0047 *Acanthus ebracteatus* (Acanthaceae); XIAO HUA LAO SHU LE; Smallflower Acanthus*. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: sore and boil with swelling of clove. Isolated compounds: 3815, 6663, 6664, 6665, 6666.
- T0048 *Acanthus ilicifolius* (Acanthaceae); LAO SHU LE; Hollyleaf Acanthus. Used part: root or branch-leaf. TCM Effects: To clear heat and resolve toxin, transform phlegm and disinherit damp, dissipate stasis and relieve pain. TCM Indications: Mumps, scrofula, liver spleen enlargement, stomachache, taxation damage in lumbar muscle, phlegm-heat cough asthma, jaundice, white turbidity, acute hepatitis, chronic hepatitis. Isolated compounds: 63, 77, 1476, 1494, 1557, 2229, 3554, 4136, 4137, 5765, 5766, 8666, 10988, 10989, 10990, 11642, 15935, 18317.
- T0049 *Acer ginnala* (Aceraceae); CHA TIAO QI; Amur Maple. Used part: tender leaf. TCM Effects: To clear liver and brighten eyes. TCM Indications: Headache due to externally contracted wind-heat, liver fire and red eyes, clouded flowery vision. Isolated compounds: 95, 7441.
- T0050 *Acer nikoense* (Aceraceae); MAO GUO QI; Nikoo Maple. Isolated compounds: 96, 97, 98, 100, 101, 102, 103, 104, 105, 106, 1522, 2296, 3308, 3399, 3831, 3832, 4055, 5786, 6233, 6853, 6923, 7007, 7942, 7944, 8311, 10384, 10614, 15595, 18740, 18795, 18797, 19175, 19542, 21897, 21923, 22332.
- T0051 *Acer okamotoanum* (Aceraceae); CHAO XIAN WU JIAO FENG; Okamoto Maple. Isolated compounds: 18340.
- T0052 *Acer platanoides* (Aceraceae); NUO WEI QI; Norway Maple. Isolated compounds: 16836.
- T0053 *Acer pseudoplatanus* (Aceraceae); OU YA QI; Great Maple. Isolated compounds: 14358.
- T0054 *Acer rubrum* (Aceraceae); HONG HUA QI; Red Maple. Isolated compounds: 8118, 8971.
- T0055 *Acer saccharinum* (Aceraceae); YIN BAI QI; Silver Maple. Isolated compounds: 3983, 8971, 19910.
- T0056 *Acer saccharum* (Aceraceae); TANG QI; Sugar Maple. Isolated compounds: 20446.
- T0057 *Acer* sp. (Aceraceae). Isolated compounds: 4055, 8311.
- T0058 *Achillea ageratifolia* (Asteraceae); XI LA SHI CAO; Greek Yarrow. Isolated compounds: 14692.
- T0059 *Achillea alexandri-regis* (Asteraceae); SAI ER WEI YA SHI CAO; Serbian Yarrow. Isolated compounds: 1110, 1113, 1750, 1751, 1752, 1753, 3695, 5414, 10346, 10347, 10348, 10349, 13497, 13498, 13499, 13500, 17415, 19087, 19983.
- T0060 *Achillea alpina* [Syn. *Achillea sibirica*] (Asteraceae); YI ZHI HAO; Alpine Yarrow. Used part: herb. TCM Effects: To dispel wind and relieve pain, quicken blood, resolve toxin. TCM Indications: Bleeding of digestive tract, bleeding from hemorrhoids, acute enteritis, infection from wounds, gastrointestinal ulcer, common cold with fever, head wind headache, toothache, wind-damp impediment pain, abdominal pain, amenorrhea due to blood stasis, abdominal lump glomus, knocks and falls, swelling toxin of welling abscess and sore, snake bite. Isolated compounds: 538, 552, 553, 3048, 3464, 4749, 8228.
- T0061 *Achillea asiatica* (Asteraceae); YA ZHOU SHI; Asiatic Yarrow. Isolated compounds: 1201, 1202, 1203.
- T0062 *Achillea fragrantissima* (Asteraceae); JI XIANG SHI CAO; Extreme-fragrant Yarrow*. Isolated compounds: 3743.
- T0063 *Achillea holosericea* (Asteraceae); XI LA SI MAO SHI; Greek Silk-hair Yarrow*. Isolated compounds: 287, 16432.
- T0064 *Achillea leptophylla* (Asteraceae); XI YE SHI; Fine-leaved Yarrow. Isolated compounds: 20505.
- T0065 *Achillea millefolium* (Asteraceae); YANG SHI CAO; Common Yarrow. Used part: whole herb. TCM Effects: To dispel wind, quicken blood, relieve pain, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, amenorrhea due to blood stasis, swelling toxin of welling abscess and sore, bleeding from hemorrhoids. Isolated compounds: 538, 1476, 1792, 2071, 2325, 2550, 2555, 2557, 2887, 3241, 3242, 4550, 4749, 7521, 7557, 7881, 8031, 11754, 14757, 14854, 19211, 20369, 21331, 21350, 21618, 21662, 22461.
- T0066 *Achillea moschata* (Asteraceae); SHE XIANG SHI CAO; Musky Yarrow. Isolated compounds: 2325, 3464, 7521.
Achillea sibirica = *Achillea alpina*
- T0067 *Achillea* sp. (Asteraceae). Isolated compounds: 552, 2044, 5236, 13605.
- T0068 *Achillea* spp. (Asteraceae). Isolated compounds: 17719, 19312.
- T0069 *Achillea wilsoniana* (Asteraceae); YUN NAN SHI; Wilson Yarrow.

- Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp pain, stomachache, toothache, stasis swelling from knocks and falls, amenorrhea and dysmenorrhea, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 538.
- T0070 *Achras* spp. (Sapotaceae). Isolated compounds: 13098.
- T0071 *Achyranthes aspera* (Amaranthaceae); TU NIU XI; Common Achyranthes. Equivalent plant: *Achyranthes aspera* var. *indica*. Used part: root and rhizome. TCM Effects: To quicken blood and dissipate stasis, dispel damp and disinhibit urine, clear heat and resolve toxin. TCM Indications: Amenorrhea, dysmenorrhea, menstrual disorder, knocks and falls, pain in joints due to rheumatism, strangury, edema, fever due to external contraction, malaria, dysentery, sore pharynx, swollen welling abscess and clove sores. Isolated compounds: 539, 540, 541, 542, 6679, 22044.
- T0072 *Achyranthes aspera* var. *indica* (Amaranthaceae); DUN YE TU NIU XI; Obtuseleaf Achyranthes. Used part: root and rhizome. TCM Effects: See *Achyranthes aspera*. TCM Indications: See *Achyranthes aspera*. Isolated compounds: 6679.
- T0073 *Achyranthes bidentata* (Amaranthaceae); NIU XI; Twotooth Achyranthes. Used part: root. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, quicken blood and regulate menstruation, disinhibit urine and free strangury. TCM Indications: Aching in lumbus and knees, amenorrhea due to blood stasis, dysmenorrhea, postpartum blood stasis abdominal pain, concretion and conglomeration, retention of placenta, heat strangury, blood strangury, knocks and falls, swollen welling abscess and malign sore, swelling pain in throat. Isolated compounds: 543, 544, 2363, 2364, 3525, 3615, 5404, 6679, 11067, 11068, 11069, 16050, 19043, 20168, 20169.
- T0074 *Achyranthes fauriei* (Amaranthaceae); RI BEN NIU XI; Japanese Achyranthes. Isolated compounds: 11067.
- T0075 *Acnistus arborescens* (Solanaceae); BA XI YE YAN; Brazilian Wild Tobacco, Marianeira. Isolated compounds: 302, 5324.
- T0076 *Aconitum anthora* (Ranunculaceae); HUANG WU TOU; Yellow Monkshood. Isolated compounds: 1964.
- T0077 *Aconitum balfourii* (Ranunculaceae); YA DONG WU TOU; Yadong Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum carmichaeli*. TCM Indications: See *Aconitum carmichaeli*. Isolated compounds: 18017.
- T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*] (Ranunculaceae); NIU BIAN; Puberulent Monkshood. Used part: root. TCM Effects: To dispel wind and relieve pain, relieve cough and transform phlegm, calm asthma. TCM Indications: Wind-damp with painful swollen joints, pain in lumbus and legs, asthma and cough, scrofula, scab and lichen. Isolated compounds: 12510, 13169, 18166, 18167, 18168, 18169, 18531.
- T0079 *Aconitum brachypodium* (Ranunculaceae); XUE SHANG YI ZHI HAO; Shortstalk Monkshood. Equivalent plant: *Aconitum nagarum* var. *lasiandrum*. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp bone pain, knocks and falls, pain in limbs, toothache, toxin swelling of sores, pain from carcinoma, pain in joints. Isolated compounds: 554, 2741, 2742, 13189.
- Aconitum bullatifolium* = *Aconitum nagarum* var. *heterotrichum*
- T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*] (Ranunculaceae); BAO SHAN WU TOU; Paoshan Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, free network vessels and relieve pain. TCM Indications: Wind-cold-damp impediment, headache. Isolated compounds: 551, 2737, 2738, 2739, 2740, 10875.
- T0081 *Aconitum bulleyanum* (Ranunculaceae); DIAN XI WU TOU; Yunnanwest Monkshood. Isolated compounds: 4211, 22482, 22938.
- T0082 *Aconitum campylorrhynchum* (Ranunculaceae); WAN ZHUO WU TOU; Curvebeak Monkshood. Isolated compounds: 384.
- T0083 *Aconitum carmichaeli* (Ranunculaceae); FU ZI; Prepared Common Monkshood Daughter Root. Equivalent plant: *Aconitum carmichaeli* cv. Used part: daughter root. TCM Effects: To return yang and treat collapse, supplement fire and reinforce yang. TCM Indications: Yang-collapse vacuity desertion, cold limbs and faint pulse, impotence, uterus cold, cold pain in heart and abdomen, vacuity cold chronic diarrhea and dysentery, yin cold edema, yang vacuity external contraction, wind-cold-damp impediment, yin flat abscess and sores. Isolated compounds: 554, 1059, 1060, 1061, 1292, 2738, 2739, 3201, 3713, 4211, 4992, 4999, 5000, 5001, 5007, 5008, 5033, 5034, 5036, 5037, 5067, 5071, 5072, 5136, 5149, 5166, 5458, 8042, 10875, 11373, 11728, 12161, 12898, 12899, 13794, 15418, 20650, 22237, 22394, 22482.
- T0084 *Aconitum carmichaeli* (Ranunculaceae); WU TOU; Common Monkshood. Equivalent plant: *Aconitum karakolicum*, *Aconitum balfourii*. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, warm channels, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints, numbness in limbs, hemiplegia, head wind headache, cold pain in heart and abdomen, cold mounting with pain, stasis pain from knocks and falls, swelling toxin of flat abscess. Isolated compounds: 554, 877, 2247, 2738, 2742, 3201, 3712, 5067, 9574, 9575, 10875, 10962, 11083, 11084, 11085, 11373, 11728, 12161, 13794, 19198, 19701, 19702, 19703, 20075, 20076, 20650, 22237.
- T0085 *Aconitum carmichaeli* cv (Ranunculaceae); ZHONG BA E ZHANG YE FU ZI; Zhongba Monkshood Daughter Root*. Used part: daughter root. TCM Effects: See *Aconitum carmichaeli*. TCM Indications: See *Aconitum carmichaeli*. Isolated compounds: 12162, 19701.
- T0086 *Aconitum chasmanthum* (Ranunculaceae); ZHAN HUA WU TOU; Patentflower Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints. Isolated compounds: 3483, 11012.
- T0087 *Aconitum chrysotrichum* (Ranunculaceae); HUANG MAO WU TOU; Yellowhair Monkshood. Isolated compounds: 3483.
- T0088 *Aconitum coreanum* (Ranunculaceae); HUANG HUA WU TOU; Korean Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and transform phlegm, settle fright epilepsy, dissipate cold and relieve pain. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, epilepsy, migraine, headache, wind-phlegm dizziness,

- tetanus, infant fright wind, wind-damp impediment pain, sores scab and lichen, damp itchy skin. Isolated compounds: 9045, 9046, 9047, 9048, 9049, 9050, 9051, 9052, 10875.
- T0089 *Aconitum crassicaule* (Ranunculaceae); CU JING WU TOU; Thickstem Monkshood. Isolated compounds: 3483, 4210, 15228.
- T0090 *Aconitum delavayi* (Ranunculaceae); MA ER SHAN WU TOU; Delavy Monkshood. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints. Isolated compounds: 4993.
- T0091 *Aconitum excelsum* (Ranunculaceae); ZI HUA GAO WU TOU; Purpleflower High Monkshood. Isolated compounds: 5073, 7673, 12510, 14513, 14570, 14798.
- T0092 *Aconitum falconeri* (Ranunculaceae); FA KANG WU TOU; Falcon Monkshood*. Isolated compounds: 7706, 11012, 18017.
- T0093 *Aconitum ferox* (Ranunculaceae); NI BO ER WU TOU; Nepal Monkshood. Isolated compounds: 2372, 11012, 18017.
- T0094 *Aconitum finetianum* (Ranunculaceae); GAN WAN WU TOU; Finet Monkshood. Used part: root. TCM Effects: To dispel wind and relieve pain, harmonize blood and vanquish toxin. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 2042, 4741, 4745, 4771, 5009, 5035, 7800, 11112, 11476, 12510, 15658, 18168, 18531.
- T0095 *Aconitum fischeri* (Ranunculaceae); BO YE WU TOU; Azure Monkshood. Isolated compounds: 11867.
- T0096 *Aconitum Forrestii* [Syn. *Aconitum likiangense*] (Ranunculaceae); LI JIANG WU TOU; Likiang Monkshood*. Used part: tuberoid. TCM Effects: To dispel wind-damp, settle pain. TCM Indications: Painful joints due to rheumatism, knocks and falls. Isolated compounds: 3483, 7880, 12781, 12935, 22482, 22938.
- T0097 *Aconitum franchetii* (Ranunculaceae); DA DU WU TOU; Franchet Monkshood. Isolated compounds: 20650.
- T0098 *Aconitum geniculatum* (Ranunculaceae); XI BAN WU TOU; Genuiculate Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-cold-damp impediment, reversal cold of limbs, knocks and falls, sore toxin. Isolated compounds: 8270, 22938.
- T0099 *Aconitum gymnanthum* (Ranunculaceae); LU RUI WU TOU; Nakedstamen Monkshood. Used part: root, leaf and flower. TCM Effects: To dispel wind-damp, warm center and dissipate cold, kill worms and relieve pain. TCM Indications: Rheumatism numbness, pain in joints, leprosy, stomachache, common cold, influenza, intestinal parasitic disease. Isolated compounds: 9103, 14478.
- T0100 *Aconitum Hemsleyanum* var. *circinatum* (Ranunculaceae); QUAN JU GUA YE WU TOU; Circinate Hemsley Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum Hemsleyanum*. TCM Indications: See *Aconitum Hemsleyanum*. Isolated compounds: 3735, 3736.
- T0101 *Aconitum Hemsleyanum* (Ranunculaceae); GUA YE WU TOU; Hemsley Monkshood. Equivalent plant: *Aconitum Hemsleyanum* var. *circinatum*. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Painful joints due to rheumatism, pain in lumbus and legs, knocks and falls, innominate toxin swelling, lichen sore. Isolated compounds: 1366, 2738, 3483, 4792, 6915, 9356, 11012, 18016, 19107, 19702, 20650, 22938.
- T0102 *Aconitum Hemsleyanum* var. *leueanthus* (Ranunculaceae); ZHUA KUI GUA YE WU TOU; Unguiculate Hemsley Monkshood. Isolated compounds: 3483, 4210, 4774, 5473, 7700, 7935, 12728, 12729, 12730, 12731, 20650.
- T0103 *Aconitum heterophyllum* (Ranunculaceae); YI YE WU TOU; Heteroleaf Monkshood*. Isolated compounds: 1964, 9459, 9472.
- T0104 *Aconitum japonicum* (Ranunculaceae); RI BEN WU TOU; Japanese Monkshood*. Isolated compounds: 5067, 11728, 20648.
- T0105 *Aconitum karakolicum* (Ranunculaceae); DUO GEN WU TOU; Manyroot Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum Carmichaeli*. TCM Indications: See *Aconitum Carmichaeli*. Isolated compounds: 551, 3201, 12160, 15250, 17127, 20076.
- T0106 *Aconitum kirinense* (Ranunculaceae); JI LIN WU TOU; Kirin Monkshood*. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, cold pain in heart and abdomen, swelling toxin of welling abscess and sore, toothache. Isolated compounds: 388, 392, 821, 7673, 8378, 12668, 12669.
- T0107 *Aconitum kongboense* (Ranunculaceae); GONG BU WU TOU; Gongbo Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Painful joints due to rheumatism, knocks and falls, poisonous insect stings. Isolated compounds: 7936, 12259.
- T0108 *Aconitum kusnezoffii* (Ranunculaceae); BEI WU TOU; Kusnezoff Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, warm channels and dissipate cold, disperse swelling and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints, head wind headache, wind stroke with hemiplegia, cold pain in heart and abdomen, cold mounting with pain, knocks and falls, blood stasis swelling and pain, swelling toxin of flat abscess, anesthesia. Isolated compounds: 304, 554, 2214, 2231, 10875, 12668, 13794, 17672, 22938.
- T0109 *Aconitum leave* (Ranunculaceae). Isolated compounds: 508, 5008, 12510, 13872, 18169, 20501.
- T0110 *Aconitum legendrei* (Ranunculaceae); MIAN NING WU TOU; Legendre Monkshood. Isolated compounds: 20650.
- T0111 *Aconitum leucostomum* (Ranunculaceae); BAI HOU WU TOU; Whitethroat Monkshood. Isolated compounds: 508, 6227, 12668.
Aconitum likiangense = *Aconitum Forrestii*
- T0112 *Aconitum lijestradii* (Ranunculaceae); GONG GA SHAN WU TOU; Konka Mountain Monkshood. Isolated compounds: 4792, 4806, 8271, 13065, 18016, 19107.
- T0113 *Aconitum lucidusculum* (Ranunculaceae); GUANG ZE WU TOU; Lucid Monkshood*. Isolated compounds: 13057.
- T0114 *Aconitum lycocotum* (Ranunculaceae); LANG DU WU TOU; Badgersbane. Isolated compounds: 13169, 13189.
- T0115 *Aconitum monticola* (Ranunculaceae); SHAN DI WU TOU; Country Monkshood. Isolated compounds: 5035, 20076.
Aconitum nagarum = *Aconitum bullatifolium* var. *homotrichum*
- T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*]

- (Ranunculaceae); XIAO BAI CHENG; Unequalhair Paoshan Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain, taxation damage in lumbar muscle, sprain in joints, intercostal neuralgia, wind stroke paralysis, early stage of welling abscess and flat abscess. Isolated compounds: 15228.
- T0117 *Aconitum nagarum* var. *lasiandrum* (Ranunculaceae); XUAN WEI WU TOU; Haoryanther Paoshan Monkshood. Used part: root. TCM Effects: See *Aconitum brachypodum*. TCM Indications: See *Aconitum brachypodum*. Isolated compounds: 304, 20075, 20076.
- T0118 *Aconitum napellus* (Ranunculaceae); OU WUTOU; Aconite. Isolated compounds: 552, 554, 10875, 13794, 15250.
- T0119 *Aconitum napellus* ssp. *neomontanum* (Ranunculaceae). Isolated compounds: 12030, 12034, 18333.
- T0120 *Aconitum nemorum* (Ranunculaceae); LIN DI WU TOU; Woodland Monkshood. Isolated compounds: 20650.
Aconitum ochranthum = *Aconitum barbatum* var. *puberulum*
- T0121 *Aconitum orientale* (Ranunculaceae); GAO JIA SUO WU TOU; Eastern Monkshood. Isolated compounds: 2042, 12510.
- T0122 *Aconitum pendulum* (Ranunculaceae); TIE BANG CHUI; Pendulous Monkshood. Used part: tuberoid. TCM Effects: To quicken blood and dispel stasis, dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Knocks and falls, fracture, wind-damp lumbago, swollen welling abscess and malign sore, innominate toxin swelling, scrofula, frostbite, poisonous snake bite. Isolated compounds: 2231, 16803, 16808.
- T0123 *Aconitum polyschistum* (Ranunculaceae); DUO LIE WU TOU; Manypltted Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, knocks and falls, innominate toxin swelling. Isolated compounds: 2231, 17672, 17673, 17674, 17675.
- T0124 *Aconitum pseudohuilense* (Ranunculaceae); LEI BO WU TOU; Leabo Monkshood. Isolated compounds: 12667, 12668, 12669.
- T0125 *Aconitum pseudostapfianum* (Ranunculaceae); NI YU LONG WU TOU; Pseudostapfia Monkshood. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs. Isolated compounds: 2248.
- T0126 *Aconitum pukeese* (Ranunculaceae); PU GE WU TOU; Pukee Monkshood. Isolated compounds: 18189.
- T0127 *Aconitum sachalinense* (Ranunculaceae); KU YE WU TOU; Sachalin Monkshood*. Isolated compounds: 11867.
- T0128 *Aconitum sanyoense* (Ranunculaceae); SHAN YANG WU TOU; Shanyang Monkshood*. Isolated compounds: 15658.
- T0129 *Aconitum septentrionale* (Ranunculaceae); BEI FANG WU TOU; Northern Monkshood*. Isolated compounds: 12510, 18168, 22199.
- T0130 *Aconitum sinomontanum* (Ranunculaceae); GAO WU TOU; Tall Monkshood. Used part: root. TCM Effects: To dispel wind and eliminate damp, rectify *qi* and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, swelling pain in joints, knocks and falls, stomachache, distention fullness in chest and abdomen, acute bacillary dysentery, chronic bacillary dysentery, acute enteritis, chronic enteritis, scrofula, sore and boil. Isolated compounds: 12510, 18531, 19956, 19957, 22938.
- T0131 *Aconitum soongaricum* (Ranunculaceae); ZHUN GE ER WU TOU; Dzungaria Monkshood. Isolated compounds: 20076.
- T0132 *Aconitum* sp. (Ranunculaceae). Isolated compounds: 1964, 12736, 12737, 12738.
- T0133 *Aconitum spicatum* (Ranunculaceae); SUI ZHUANG WU TOU; Spiked Monkshood. Isolated compounds: 2372, 18017.
- T0134 *Aconitum subcuneatum* (Ranunculaceae); XIE XING WU TOU; Cuneate Monkshood*. Isolated compounds: 3483, 11867.
- T0135 *Aconitum sungpanense* (Ranunculaceae); SONG PAN WU TOU; Sungpan Monkshood. Used part: root. TCM Effects: To dispel wind and overcome damp, dissipate cold and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Wind-cold-damp impediment, pain in joints, toothache, knocks and falls, swelling toxin of welling abscess and sore, neuralgia. Isolated compounds: 331, 5473, 22938.
- T0136 *Aconitum talassicum* (Ranunculaceae); TA LA WU TOU; Tala Monkshood*. Isolated compounds: 11728, 20650.
- T0137 *Aconitum tanguticum* (Ranunculaceae); GAN QING WU TOU; Tangut Monkshood. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Hepatitis, cholecystitis, pneumonia, pharyngolaryngitis, gastroenteritis, common cold with fever. Isolated compounds: 2243, 9459, 9472, 9646, 20650, 20676, 20689.
- T0138 *Aconitum umbrosum* (Ranunculaceae); CAO DI WU TOU; Meadow Monkshood. Used part: root. TCM Effects: To dispel wind and dissipate cold, dispel damp and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in limbs, hypertonicity of limbs, neuralgia, knocks and falls, osteoarthritis, cold pain in heart and abdomen, welling abscess and flat abscess with clove sore. Isolated compounds: 781, 22199.
- T0139 *Aconitum variegatum* (Ranunculaceae); BAN HUA WU TOU; Manchurian Monkshood. Isolated compounds: 396, 4867, 7415, 7447, 9895, 20650, 22348, 22390, 22391, 22393.
- T0140 *Aconitum violaceum* (Ranunculaceae); ZI WU TOU; Violet Monkshood*. Isolated compounds: 2372, 11012.
- T0141 *Aconitum zeravschanicum* (Ranunculaceae); ZE WU TOU. Isolated compounds: 9459, 15658.
- T0142 *Acorus calamus* (Araceae); BAI CHANG; Drug Sweetflag. Used part: rhizome. TCM Effects: To transform phlegm and open orifices, dispel damp and fortify stomach, kill worms and relieve itch. TCM Indications: Stupor due to phlegm reversal, wind stroke, epilepsy, fright palpitation and amnesia, tinnitus and deafness, food accumulation abdominal pain, diarrhea and dysentery, wind-damp pain, eczema, scab sore. Isolated compounds: 550, 560, 561, 564, 565, 566, 957, 1835, 1840, 2435, 2550, 2934, 2939, 3048, 3241, 3242, 4398, 7019, 7521, 9486, 11193, 11302, 11408, 11713, 11717, 13141, 14530, 14531, 17809, 19852, 21929.
- T0143 *Acorus calamus* var. *angustatus* (Araceae); RI BEN CHANG PU; Japanese Sweetflag*. Isolated compounds: 1835.
- T0144 *Acorus gramineus* (Araceae); JIN QIAN PU; Grassleaf Sweetflag. Used part: Rhizome. TCM Effects: See *Acorus tatarinowii*. TCM Indications: See *Acorus tatarinowii*. Isolated compounds: 957, 1835, 2435, 3241, 3242, 9669, 13883, 14531.

- T0145 *Acorus gramineus* (Araceae); JIN QIAN PU YE; Grassleaf Sweetflag Leaf. Used part: leaf. TCM Indications: Great wind sore, scab sore. Isolated compounds: 957, 1835.
- T0146 *Acorus tatarinowii* (Araceae); SHI CHANG PU; Grassleaved Sweetflag. Equivalent plant: *Acorus gramineus*. Used part: Rhizome. TCM Effects: To transform phlegm and open orifices, transform damp and move *qi*, dispel wind and eliminate impediment, disperse swelling and relieve pain. TCM Indications: Febrile diseases clouded spirit, phlegm reversal, amnesia, tinnitus, deafness, distending pain in stomach duct and abdomen, food-denying dysentery, wind-damp impediment pain, knocks and falls, scab and lichen with welling abscess and flat abscess. Isolated compounds: 1834, 1835, 7056, 7521, 7523, 11194.
- T0147 *Acritopappus* spp. Isolated compounds: 419.
- T0148 *Acronychia baueri* (Rutaceae); BAO RUI SHAN YOU GAN; Bauer Acronychia. Isolated compounds: 569, 570.
- T0149 *Acronychia haplophylla* (Rutaceae); DAN YE YOU GAN; Singleleaf Acronychia*. Isolated compounds: 570.
- T0150 *Acronychia laurifolia* (Rutaceae); YUE GUI YE SHAN YOU GAN; Laurel-leaf Acronychia*. Isolated compounds: 14364.
- T0151 *Acronychia pedunculata* (Rutaceae); SHA TANG MU; Pedunculate Acronychia. Used part: wood or root. TCM Effects: To move *qi* and quicken blood, fortify spleen and suppress cough. TCM Indications: Wind-damp pain in lumbus and legs, stasis pain from knocks and falls, *qi* pain in heart and stomach, bronchitis, common cold, cough. Isolated compounds: 570, 571, 572, 573, 574, 575, 577, 2169, 5852, 6022.
- T0152 *Acronychia* sp. (Rutaceae). Isolated compounds: 12254.
- T0153 *Acronychia vestita* (Rutaceae); BAO SHAN YOU GAN; Vested Acronychia*. Isolated compounds: 577.
- T0154 *Acroptilon repens* (Asteraceae); DING YU JU; Creeping Acroptilon. Used part: aerial parts. TCM Effects: To dispel wind-damp, resolve heat toxin. TCM Indications: Swelling toxin of welling abscess and sore, rheumatic arthritis. Isolated compounds: 576, 17127, 18627.
- T0155 *Actinidia arguta* (Actinidiaceae); MI HOU LI; Bower Actinidia. Used part: fruit. TCM Effects: To enrich *yin* and clear heat, eliminate vexation and allay thirst, free strangury. TCM Indications: Febrile diseases fluid damage, sand strangury, stone strangury, hypovitaminosis C, gum hemorrhage, hepatitis. Isolated compounds: 582, 2887, 3308, 5763, 9818.
- T0156 *Actinidia arguta* (Actinidiaceae); MI HOU LI GEN; Bower Actinidia Root*. Used part: root. TCM Effects: To clear heat and disinhibit damp, dispel wind and eliminate impediment, resolve toxin and disperse swelling, stanch bleeding. TCM Indications: Jaundice, indigestion, vomiting, wind-damp impediment pain, carcinoma in digestive tract, welling abscess and sores with sore and boil, knocks and falls, bleeding due to external injury, breast milk stoppage. Isolated compounds: 12080, 18385.
- T0157 *Actinidia callosa* var. *henryi* (Actinidiaceae); JING LI MI HOU TAO; Henry Actinidia. Used part: root cortex. TCM Effects: To clear heat, disinhibit damp, disperse edema, relieve pain. TCM Indications: Damp-heat edema, intestinal welling abscess, swelling toxin of welling abscess and sore. Isolated compounds: 2887, 5763, 9818.
- T0158 *Actinidia chinensis* (Actinidiaceae); MI HOU TAO; Yangtao Actinidia. Used part: fruit. TCM Effects: To resolve heat, allay thirst, fortify stomach, free strangury. TCM Indications: Heat vexation, diabetes mellitus, dry cough due to lung dryness, indigestion, damp-heat jaundice, stone strangury, hemorrhoids. Isolated compounds: 582, 2887, 3765, 5763, 9818, 18838, 22975.
- T0159 *Actinidia chrysantha* (Actinidiaceae); JIN HUA MI HOU TAO; Goldflower Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0160 *Actinidia deliciosa* (Actinidiaceae); MEI WEI MI HOU TAO; Delicious Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0161 *Actinidia eriantha* (Actinidiaceae); MAO HUA MI HOU TAO; Hairyflower Actinidia. Used part: root and root cortex. TCM Effects: To resolve toxin and disperse swelling, clear heat and disinhibit damp. TCM Indications: Heat toxin swollen welling abscess, mammary welling abscess, aphonia due to lung heat, damp-heat dysentery, strangury-turbidity and vaginal discharge, wind-damp impediment pain, carcinoma of stomach, carcinoma of esophagus, mastocarcinoma, knocks and falls. Isolated compounds: 2887, 5763, 9818.
- T0162 *Actinidia glaucophylla* (Actinidiaceae); HUA NAN MI HOU TAO; Greyleaf Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0163 *Actinidia latifolia* (Actinidiaceae); KUO YE MI HOU TAO; Broadleaf Actinidia. Used part: fruit. TCM Effects: To boost *qi* and nourish *yin*. TCM Indications: Enduring illness vacuity, tuberculosis. Isolated compounds: 2887, 5763, 9818.
- T0164 *Actinidia polygama* (Actinidiaceae); MU TIAN LIAO; Silvertine Actinidia. Used part: branchlet-leaf. TCM Effects: To dispel wind-damp, warm channels and relieve pain, disperse concretion and conglomeration. TCM Indications: Wind stroke with hemiplegia, wind-cold-damp impediment, lumbago, mounting *qi*, concretion conglomeration accumulation and gathering, *qi* dysentery. Isolated compounds: 581, 582, 583, 584, 937, 2284, 2887, 5680, 5763, 6320, 9818, 10008, 10365, 11144, 11145, 11149, 11181, 11196, 11378, 11467, 11559, 11560, 12080, 13596, 13597, 13598, 15434, 15437, 15484, 18385, 22855.
- T0165 *Actinidia rubricaulis* var. *coriacea* (Actinidiaceae); GE YE MI HOU TAO; Coriaceousleaf Actinidia. Used part: fruit. TCM Effects: Anticarcinoma. TCM Indications: Tumor. Isolated compounds: 2887, 5763, 9818.
- T0166 *Actinodaphne lancifolia* (Lauraceae); PI ZHEN YE HUANG ROU NAN; Lanceleaf Actinodaphne*. Isolated compounds: 586, 587.
- T0167 *Adenanthera pavonina* (Fabaceae); HAI HONG DOU; Sandal Beadtree. Used part: seed. TCM Effects: To course wind and clear heat, dry damp and resolve itch, moisten skin. TCM Indications: Wandering wind of head and face. Isolated compounds: 6632, 12800, 15935.
- T0168 *Adenium obesum* (Apocynaceae); SHA MO QIANG WEI; Desert Rose. Isolated compounds: 15497.
- T0169 *Adenophora triphylla* var. *japonica* (Campanulaceae); RI BEN SAN YE SHA SEN; Japanese Trileaf Ladybell*. Isolated compounds: 2792, 7437.
- T0170 *Adhatoda vasica* (Acanthaceae); DA BO GU; Malabanut. Used part: branchlet-leaf. TCM Effects: To quicken blood and relieve pain, joint sinews and bones, stanch bleeding. TCM Indications: Sinew and bone wound, sprain, blood stasis swelling and pain, wind-damp impediment pain, lumbago, profuse menstruation, flooding and spotting. Isolated

- compounds: 627, 1291, 2318, 16770, 22349, 22350, 22351, 22352.
- T0171 *Adiantum capillus-veneris* (Adiantaceae); ZHU ZONG CAO; Southern Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Common cold with fever, lung heat cough, damp-heat diarrhea, dysentery, strangury-turbidity, vaginal discharge, mammary welling abscess, scrofula, poisonous snake bite. Isolated compounds: 632, 1935, 2901, 7099, 7760, 10123, 10541, 12098, 16042, 16043, 18373, 18414.
- T0172 *Adiantum caudatum* (Adiantaceae); BIAN YE TIE XIAN JUE; Walking Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Dysentery, edema, dribbling and inhibited voidings of urination, mammary welling abscess, poisonous snake bite, oral ulcer. Isolated compounds: 632, 10119, 10120, 10402, 11197, 15363, 15756.
- T0173 *Adiantum lunulatum* (Adiantaceae); BAN YUE XING TIE XIAN JUE; Philippine Maidenhair*. Used part: whole herb. TCM Effects: To clear lung and relieve cough, disinhibit water and free strangury, disperse welling abscess and promote lactation. TCM Indications: Lung heat cough, dribbling pain of urination, mammary welling abscess with swelling and pain, breast milk stoppage. Isolated compounds: 7178.
- T0174 *Adiantum monochlamys* (Adiantaceae); DAN GAI TIE XIAN JUE; Monochlamys Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve phlegm, resolve toxin. TCM Indications: Lung heat cough, common cold with fever, swollen welling abscess and toxin of clove. Isolated compounds: 629, 630, 9641.
- T0175 *Adiantum pedatum* (Adiantaceae); TIE SI QI; American Maidenhair Fern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Lung heat cough, dysentery, jaundice, dribbling and inhibited voidings of urination, swollen welling abscess, scrofula, scalds. Isolated compounds: 632, 641, 7757, 7758, 7795, 7796, 9642, 11197, 11425, 15405, 15406.
- T0176 *Adiantum* sp. (Adiantaceae). Isolated compounds: 15286, 18815.
- T0177 *Adiantum* spp. (Adiantaceae). Isolated compounds: 15406.
- T0178 *Adiantum sulphureum* (Adiantaceae); LIU HUANG TIE XIAN JUE; Sulphur Maidenhair Fern*. Isolated compounds: 5969.
- T0179 *Adiantum venustum* (Adiantaceae); XI YE TIE XIAN JUE; Venus Maidenhair. Isolated compounds: 633, 634, 635.
- T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*] (Rubiaceae); SHUI TUAN HUA; Pilular Adina. Used part: whole herb, or flower and fruit. TCM Effects: To clear heat and disinhibit damp, disperse stasis and settle pain, engender flesh and stanch bleeding. TCM Indications: Dysentery, enteritis, edema, swelling toxin of welling abscess and sore, eczema, foot rot, enduring sores, bleeding due to external injury. Isolated compounds: 3676, 14979, 18427, 20369.
- Adina racemosa* = *Sinoadina racemosa*
- T0181 *Adina rubella* (Rubiaceae); XI YE SHUI TUAN HUA; Thinleaf Adina. Used part: stem-leaf or inflorescence. TCM Effects: To clear heat and resolve toxin. TCM Indications: dysentery with ardent fever, wind-fire toothache, eczema, bleeding due to external injury. Isolated compounds: 18437, 18438, 21922.
- Adina sessilifolia* = *Neonauclea sessilifolia*
- T0182 *Adinandra nitida* (Theaceae); GUANG LIANG YANG TONG; Shining Adinandra*. Isolated compounds: 15540, 16766, 21864.
- T0183 *Adlumia cirrhosa* [Syn. *Adlumia fungosa*] (Papaveraceae); XUN ZHUANG SHAN YUAN CAO; Climbing Fumitory. Used part: whole herb. TCM Effects: To settle pain. TCM Indications: Various pain. Isolated compounds: 642, 643.
- Adlumia fungosa* = *Adlumia cirrhosa*
- T0184 *Adonis amurensis* (Ranunculaceae); FU SHOU CAO; Amur Adonis. Used part: whole herb. TCM Effects: To strengthen heart, disinhibit urine, calm. TCM Indications: Cardiac insufficiency, atrial fibrillation, congestive cardiac failure, edema due to heart disease, CNS depression. Isolated compounds: 644, 2246, 4012, 4036, 4547, 4548, 5525, 7992, 7993, 11497, 11643, 12880, 15529, 15530, 16034, 16917, 19375, 19542, 20072, 20397, 20402, 20405, 22195.
- T0185 *Adonis annua* (Ranunculaceae); QIU FU SHOU CAO; Annual Adonis*. Isolated compounds: 647.
- T0186 *Adonis chrysocyatha* (Ranunculaceae); JIN HUANG CE JIN ZHAN HUA; Golden Adonis. Isolated compounds: 4547.
- T0187 *Adonis mongolica* (Ranunculaceae); MENG GU CE JIN ZHAN HUA; Mongolian Adonis*. Isolated compounds: 4036, 7320, 16084.
- T0188 *Adonis sibirica* (Ranunculaceae); BEI CE JIN ZHAN HUA; Siberian Adonis. Isolated compounds: 646.
- T0189 *Adonis* spp. (Ranunculaceae). Isolated compounds: 22581.
- T0190 *Adonis sutchuenensis* (Ranunculaceae); SHU CE JIN ZHAN HUA; Szechwan Adonis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dry damp, strengthen heart and calm. TCM Indications: Swelling toxin of welling abscess and sore, red eyes with gall, vomiting and diarrhea, dysentery, palpitation and insomnia, epilepsy. Isolated compounds: 3306.
- T0191 *Adonis vernalis* (Ranunculaceae); CHUN FU SHOU CAO; Yellow Adonis. Isolated compounds: 646, 4547, 6204, 22404.
- T0192 *Adonis wolgensis* (Ranunculaceae); FU ER JIA CE JIN ZHAN HUA; Volga Adonis. Isolated compounds: 646.
- T0193 *Adoxa moschatellina* (Adoxaceae); WU FU HUA; Muskroot. Isolated compounds: 14982.
- T0194 *Aegiceris corniculatum* (Myrsinaceae); LA ZHU GUO; Corniculate Aegiceris. Isolated compounds: 465, 4987, 5867, 5975, 5976, 6767, 7436, 10485, 14042, 14347, 14347, 18546.
- T0195 *Aeginetia indica* (Orobanchaceae); YE GU; Indian Aeginetia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, urinary tract infection, medullitis, clove sore. Isolated compounds: 656, 657, 18656.
- T0196 *Aegiphila lhotzkyana*. Isolated compounds: 4590, 7080, 20465, 21231, 22213.
- T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria. Used part: young fruit. TCM Effects: To check dysentery and diarrhea, disinhibit throat and disperse swelling. TCM Indications: Chronic diarrhea, abdominal pain, dysentery, swelling pain in throat. Isolated compounds: 933, 4863, 7703, 13571, 19540, 22195.
- T0198 *Aesculus assamica* (Hippocastanaceae); CHANG BING QI YE SHU; Assam Horsechestnut. Isolated compounds: 1913, 1914.
- T0199 *Aesculus californica* (Hippocastanaceae); JIA ZHOU QI YE SHU; Californian Buckeye. Isolated compounds: 6853.

- T0200 *Aesculus carnea* (Hippocastanaceae); HONG QI YE SHU; Red Horsechestnut. Isolated compounds: 6853.
- T0201 *Aesculus chinensis* (Hippocastanaceae); QI YE SHU; Chinese Buckeye. Used part: ripe fruit without shell. TCM Effects: See *Aesculus wilsonii*. TCM Indications: See *Aesculus wilsonii*. Isolated compounds: 660, 661, 662, 665, 667, 7361, 7362, 7363, 7364, 7365, 11416, 11417.
- T0202 *Aesculus hippocastanum* (Hippocastanaceae); OU ZHOU QI YE SHU; Horsechestnut. Used part: ripe fruit without shell. TCM Effects: See *Aesculus wilsonii*. TCM Indications: See *Aesculus wilsonii*. Isolated compounds: 660, 663, 664, 7942, 7944, 17867, 17876, 17888, 18411.
- T0203 *Aesculus* spp. (Hippocastanaceae). Isolated compounds: 17869.
- T0204 *Aesculus turbinata* (Hippocastanaceae); RI BEN QI YE SHU; Japanese Buckeye. Isolated compounds: 659, 663, 2152, 3829, 3830, 5271, 7942, 17964.
- T0205 *Aesculus wilsonii* (Hippocastanaceae); SUO LUO ZI; Wilson Buckeye Seed. Equivalent plant: *Aesculus chinensis*, *Aesculus hippocastanum*. Used part: ripe fruit without shell. TCM Effects: To soothe liver, rectify *qi*, loosen center, relieve pain. TCM Indications: Distending pain in chest and rib-side, distending pain in breast, dysmenorrhea, pain in stomach duct, pain in chest and abdomen. Isolated compounds: 660, 21368.
- T0206 *Aframomum daniellin* (Zingiberaceae); DUO NI FEI SHA REN. Isolated compounds: 675.
- T0207 African frog FEI ZHOU WA; African frog. Isolated compounds: 22057.
- T0208 *Afromosia elata* XI FEI HONG DOU SHU; West Africa Afromosia. Isolated compounds: 676.
- T0209 *Agapanthus africanus* (Liliaceae); FEI ZHOU BAI ZI LIAN; African Lily. Isolated compounds: 6195.
- T0210 *Agaricus bisporus* (Agaricaceae); SHUANG BAO MO GU; Bispore Mushroom*. Used part: sporocarp. TCM Effects: See *Agaricus campestris*. TCM Indications: See *Agaricus campestris*. Isolated compounds: 701, 7250, 13608.
- T0211 *Agaricus campestris* (Agaricaceae); MO GU; Mushroom. Equivalent plant: *Agaricus bisporus*. Used part: sporocarp. TCM Effects: To fortify spleen and promote digestion, calm liver and raise spirit. TCM Indications: Non-digestion of food accumulation, torpid intake, scant breast milk, hypertension, fatigued spirit and desire to sleep. Isolated compounds: 625, 701, 1040, 1055, 3205, 3774, 4223, 4591, 5350, 5351, 7853, 9602, 10357, 12399, 18261, 18266, 19360, 21504, 21505, 21506, 22254, 22814.
Agaricus piperatus = *Lactarius piperatus*
- T0212 *Agastache rugosus* (Lamiaceae); HUO XIANG; Wrinkled Gianthyssop. Used part: aerial parts. TCM Effects: To dispel summerheat and resolve exterior, harmonize stomach and transform damp. TCM Indications: Summer common cold, cold-heat headache, glomus and oppression in chest and stomach duct, vomiting and diarrhea, diarrhea in pregnancy, deep-source nasal congestion. Isolated compounds: 56, 61, 708, 709, 1186, 1282, 2851, 2940, 2941, 2943, 3241, 3242, 4219, 4550, 4680, 6059, 6741, 6918, 7385, 7730, 7951, 9522, 9524, 9670, 11200, 12843, 12849, 13883, 14359, 15978, 15979, 16050, 16498, 16711, 17376, 17377, 18668, 19983, 21391.
- T0213 *Agathis dammara* (Araucariaceae); BEI KE SHAN; Amboina Pitch Tree. Isolated compounds: 710.
- T0214 *Agathis palmerstoni* (Araucariaceae); PA SHI BEI KE SHAN; Palmerston Pitch Tree*. Isolated compounds: 4376.
- T0215 *Agave americana* (Amaryllidaceae); FAN MA; American Agave. Used part: leaf. TCM Effects: To resolve toxin and draw out pus, kill worms, stanch bleeding. TCM Indications: Sores with welling abscess and flat abscess, scab and lichen, pelvic inflammation, flooding. Isolated compounds: 697, 698, 699, 712, 713, 714, 715, 716, 725, 727, 3552, 4928, 4945, 7008, 8457, 9253, 13510, 17479, 18893, 20216, 21383, 21386, 22045.
- T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*] (Amaryllidaceae); WU CI FAN MA; Spineless Agave. Used part: leaf. TCM Effects: To moisten lung, transform phlegm, suppress cough. TCM Indications: Vacuity taxation cough, blood ejection, asthma. Isolated compounds: 3552, 4928, 4945, 9192, 9253, 12126, 13510, 15463, 15525, 21383, 21388.
Agave americana var. *variegata* = *Agave americana* var. *marginata*
- T0217 *Agave angustifolia* (Amaryllidaceae); DUAN YE LONG SHE LAN; Narrowleaf Agave. Isolated compounds: 3552, 9253, 13510, 21383.
- T0218 *Agave angustifolia* var. *marginata* (Amaryllidaceae); YIN BIAN LONG SHE LAN; Silveredge Agave. Isolated compounds: 3552, 9253.
- T0219 *Agave cantala* (Amaryllidaceae); XIA YE LONG SHE LAN; Shortleaf Agave. Isolated compounds: 717, 718, 719, 720, 721, 722, 723, 724, 3089, 3090, 3091, 3092, 3093, 3552, 9253, 13510, 15364, 15463, 21383.
- T0220 *Agave deserti* (Amaryllidaceae). Isolated compounds: 4928, 4945.
- T0221 *Agave east-one* (Amaryllidaceae); DONG YI HAO JIAN MA; Cultivate Sisalan Agave East-1. Isolated compounds: 3552, 6553, 6554, 6555, 6556, 6557, 9253, 13510, 18893, 21383.
- T0222 *Agave huahucensis* (Amaryllidaceae). Isolated compounds: 726.
- T0223 *Agave lecheguilla* (Amaryllidaceae). Isolated compounds: 19065, 21383, 22936.
- T0224 *Agave rigidissima* (Amaryllidaceae); JI JIAN LONG SHE LAN; Very-hard Agave*. Isolated compounds: 14823.
- T0225 *Agave roezliana* (Amaryllidaceae). Isolated compounds: 15435.
- T0226 *Agave sisalana* (Amaryllidaceae); JIAN MA; Sisal Hemp-plant. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Tuberculosis and hemoptysis, spontaneous external bleeding, hematochezia, dysentery, welling abscess, hemorrhoids. Isolated compounds: 2150, 3552, 7008, 8588, 9192, 9253, 9630, 15463, 15467, 17784, 18893, 19977, 21383.
- T0227 *Agave striata* (Amaryllidaceae); TIAO WEN LONG SHE LAN; Stria Agave*. Isolated compounds: 15433.
- T0228 *Agave yuccaefolia* (Amaryllidaceae). Isolated compounds: 19230.
- T0229 *Ageratum conyzoides* (Asteraceae); SHENG HONG JI; Tropic Ageratum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, relieve pain. TCM Indications: Common cold with fever, swelling pain in throat, hemoptysis, spontaneous external bleeding, flooding and spotting, pain in stomach duct and abdomen, wind-damp impediment pain, knocks and falls, bleeding due to external injury, swelling toxin of welling abscess and sore, eczema titillation. Isolated compounds: 9509, 19929, 20369.

- T0230 *Ageratum houstonianum* (Asteraceae); XIONG ER CAO; Mexican Ageratum. Isolated compounds: 9306, 11647, 17776, 18661.
- T0231 *Aglaiia argentea* (Meliaceae); YIN SE MI ZI LAN; Argenti Aglaiia*. Isolated compounds: 16002.
- T0232 *Aglaiia duperreana* (Meliaceae). Isolated compounds: 375, 495, 5463, 10097, 10098, 10677, 14714, 18883.
- T0233 *Aglaiia edulis* (Meliaceae); KE SHI MI ZI LAN; Edible Aglaiia*. Isolated compounds: 736, 737, 740, 741, 9623, 11739, 16618, 21274, 21275, 21276, 21277, 21278.
- T0234 *Aglaiia elliptica* (Meliaceae); TUE YUAN MI ZI LAN; Elliptic Aglaiia*. Isolated compounds: 307, 738, 6824, 16002, 18887, 18888, 18889.
- T0235 *Aglaiia elliptifolia* (Meliaceae); DA YE SHU LAN; Largeleaf Aglaiia*. Isolated compounds: 4955, 6760, 6761, 7932, 10790, 17475, 18892.
- T0236 *Aglaiia foveolata* (Meliaceae); FENG CHAO MI ZI LAN; Foveolate Aglaiia*. Isolated compounds: 7932.
- T0237 *Aglaiia grandis* (Meliaceae); JU DA MI ZI LAN; Grand Aglaiia*. Isolated compounds: 5756, 8974, 8975, 8976.
- T0238 *Aglaiia lawii* (Meliaceae); Law Aglaiia*. Isolated compounds: 744, 745, 746, 747.
- T0239 *Aglaiia leucophylla* (Meliaceae); BAI YE MI ZI LAN; Whiteleaf Aglaiia*. Isolated compounds: 15598.
- T0240 *Aglaiia odorata* (Meliaceae); MI ZI LAN; Chu-lan Tree. Used part: flower or leaf. TCM Effects: To dispel wind-damp, dissipate stasis and disperse swelling. TCM Indications: Distention fullness in chest and diaphragm, dysphagia-occlusion, cough and heavy head (flower), knocks and falls, flat abscess (leaf). Isolated compounds: 739, 5753, 9768, 9769, 9981, 10379, 10677, 11966, 14714, 16002, 16003, 18262, 18882, 18883.
- T0241 *Aglaiia oligophylla* (Meliaceae). Isolated compounds: 18891.
- T0242 *Aglaiia pirifera* (Meliaceae); LI MI ZI LAN; Pear Aglaiia*. Isolated compounds: 17475.
- T0243 *Aglaiia ponapensis* (Meliaceae). Isolated compounds: 1382, 1383, 14714, 19910.
- T0244 *Aglaiia roxburghiana* (Meliaceae); LUO KE SI BAO MI ZI LAN; Roxburg Aglaiia*. Isolated compounds: 16002, 16003.
- T0245 *Aglaiia spectabilis* (Meliaceae). Isolated compounds: 10677, 14714, 18883, 18884, 18885, 18886, 18887, 18888, 18889, 18890, 18891.
- T0246 *Aglaiia tomentosa* (Meliaceae); RONG MAO MI ZI LAN; Tomentose Aglaiia*. Isolated compounds: 742, 743, 744, 745, 746, 747.
- T0247 *Agrimonia japonica* (Rosaceae); RI BEN LONG YA CAO; Japanese Agrimonia*. Isolated compounds: 757, 758, 759, 17750.
- T0248 *Agrimonia pilosa* (Rosaceae); LONG YA CAO; Hairyvein Agrimonia. Used part: aerial parts. TCM Effects: To promote astriction and stanch bleeding, check dysentery, kill worms. TCM Indications: Hemoptysis, blood ejection, hematuria, hematochezia, dysentery, flooding and spotting with vaginal discharge, bleeding due to external injury, malaria, trichomoniasis. Isolated compounds: 754, 759, 762, 10887, 17361, 17362, 17363, 17386, 17750.
- T0249 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO; Japanese Argimonia. Used part: aerial parts. TCM Effects: To promote astriction and stanch bleeding, interrupt malaria, check dysentery, resolve toxin. TCM Indications: Hemoptysis, blood ejection, flooding and spotting, malaria, blood dysentery, swelling toxin of welling abscess and sore, pudendal itch, Vaginal discharge. Isolated compounds: 753, 754, 755, 756, 760, 761, 762, 1492, 2887, 3308, 3674, 6757, 8095, 10887, 15660, 16261, 18019, 18317, 19087, 19983, 20792.
- T0250 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO GEN; Japanese Agrimonia Root. Used part: root. TCM Effects: To resolve toxin and kill worms. TCM Indications: Red and white dysentery, amenorrhea, toxin swelling, taeniasis. Isolated compounds: 5699.
- T0251 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO GEN YA; Japanese Argimonia Rhizome. Used part: rhizome. TCM Effects: To expel tapeworm. TCM Indications: Taeniasis. Isolated compounds: 762.
- T0252 *Agrostemma githago* (Caryophyllaceae); MAI XIAN WENG; Githago Agrostemma. Isolated compounds: 765, 9183, 9297.
- T0253 *Agrostophyllum brevipes* (Orchidaceae); DUAN BING HE YE LAN; Short-stipe Agrostophyllum*. Isolated compounds: 766, 767.
- T0254 *Agrostophyllum callosum* (Orchidaceae); YING PI HE YE LAN; Callose Agrostophyllum. Isolated compounds: 767.
- T0255 *Ailanthus altissima* (Simaroubaceae); CHU BAI PI; Tree of Heaven Ailanthus Bast. Used part: bast. TCM Effects: To eliminate heat and dry damp, astringe intestines and stanch bleeding, kill worms. TCM Indications: Chronic dysentery, chronic diarrhea, duodenal ulcer, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, ascariasis. Isolated compounds: 312, 774, 777, 778, 779, 780, 1018, 3096, 3481, 6204, 13865, 15454, 18299, 19826, 19827.
- T0256 *Ailanthus excelsa* (Simaroubaceae); GAO CHU; High Ailanthus*. Isolated compounds: 777, 5612, 8509, 13865, 18300, 18301.
- T0257 *Ailanthus integrifolia* ssp. *calycina* (Simaroubaceae); QUAN YUAN CHU; Integrifolious Ailanthus*. Isolated compounds: 3481.
- T0258 *Ailanthus malabarica* (Simaroubaceae); MA LA BA CHU; Hairyleaf South Ailanthus. Isolated compounds: 3158.
- T0259 *Aiphanes aculeata* (Arecaceae); CI JI NU ZONG LV; Aculeate Ruffie Palm. Isolated compounds: 1448, 11672.
- T0260 *Ajania fruticulosa* (Asteraceae); GUAN MU YA JU; Shrubby Ajania. Isolated compounds: 7107, 7206, 7207.
- T0261 *Ajuga chamaepitys* (Lamiaceae); HUANG JIN GU CAO; Yellow Bugle. Isolated compounds: 794, 4455, 13411.
- T0262 *Ajuga ciliata* (Lamiaceae); JIN GU CAO; Ciliate Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Swelling pain in throat, lung heat hemoptysis, painful swelling from knocks and falls. Isolated compounds: 4455.
- T0263 *Ajuga decumbens* (Lamiaceae); BAI MAO XIA KU CAO; Decumbent Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, relieve cough and transform phlegm, cool blood and dissipate blood. TCM Indications: Swelling pain in throat, lung heat cough, pulmonary welling abscess, red eyes with gall, dysentery, swollen welling abscess and clove sores, poisonous snake bite, knocks and falls. Isolated compounds: 409, 788, 789, 790, 791, 792, 793, 794, 801, 802, 803, 805, 806, 807, 810, 811, 4455, 4860, 6679, 12952, 17662.
- T0264 *Ajuga forrestii* (Lamiaceae); LI ZHI HAO; Forrest Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit

- water and free strangury, dissipate stasis and relieve pain, expel worms. TCM Indications: Lung heat cough, swelling pain in throat, dysentery, jaundice, heat strangury, edema, mastitis, angitis, swollen sore of welling abscess and boil, knocks and falls, bleeding due to external injury, ascariasis. Isolated compounds: 56, 409, 786, 787.
- T0265 *Ajuga iva* (Lamiaceae); AI WA JIN GU CAO; Iva Bugle*. Isolated compounds: 7768.
- T0266 *Ajuga macrosperma* (Lamiaceae); DA ZI JIN GU CAO; Largeseed Bugle. Used part: whole herb. TCM Effects: To clear heat and cool blood, dissipate stasis and relieve pain. TCM Indications: Lung heat cough, blood ejection, spontaneous external bleeding, red dysentery, strangury with pain, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 800.
- T0267 *Ajuga nipponensis* (Lamiaceae); ZI BEI JIN PAN; Japanese Bugle. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Lung heat cough, hacking of blood, sore swollen throat, mammary welling abscess, intestinal welling abscess, swelling toxin of sore and boil, bleeding hemorrhoids, painful swelling from knocks and falls, bleeding due to external injury, burns and scalds, poisonous snake bites. Isolated compounds: 801, 802, 803, 805, 806, 807, 810.
- T0268 *Ajuga parviflora* (Lamiaceae); XIAO HUA XIA KU CAO; Smallflower Bugle*. Isolated compounds: 812, 813, 814.
- T0269 *Ajuga pseudoiva* (Lamiaceae); Pseudoiva Bugle*. Isolated compounds: 9246, 9247, 9248.
- T0270 *Ajuga remota* (Lamiaceae); YUAN JU JIN GU CAO; Manybracteole Bugle. Isolated compounds: 809.
- T0271 *Ajuga reptans* (Lamiaceae); PU FU JIN GU CAO; Creeping Bugle. Isolated compounds: 409, 794, 816, 4455, 17662, 18628.
- T0272 *Ajuga taiwanensis* (Lamiaceae); TAI WAN JIN GU CAO; Taiwan Bugle*. Isolated compounds: 346, 409, 794, 795, 796, 797, 798, 799, 800, 804, 808, 4455, 8094, 9237, 11361, 12020, 15528, 17140, 17141, 19983, 19987, 20369, 21225, 22332.
- T0273 *Akebia quinata* (Lardizabalaceae); MU TONG; Fiveleaf Akebia. Equivalent plant: *Akebia trifoliata* var. *australis*, *Akebia trifoliata*. Used part: stem. TCM Effects: To clear heat and disinhibit urine, quicken blood and free vessels. TCM Indications: Acute urethritis, short voidings of reddish urine, strangury-turbidity, edema, nephritis with edema, galactostasis, heat vexation in chest, throat pain, mouth sore, tongue sores, wind-damp impediment pain, galactostasis, amenorrhea, dysmenorrhea. Isolated compounds: 819, 820, 1691, 4450, 4680, 9260, 11083, 13799, 15753, 15754, 15755, 15783, 16050, 16402, 18419, 19316, 19983, 19987, 20369.
- T0274 *Akebia quinata* (Lardizabalaceae); MU TONG GEN; Fiveleaf Akebia Root. Equivalent plant: *Akebia trifoliata* var. *australis*, *Akebia trifoliata*. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and quicken blood, disinhibit urine, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, amenorrhea, mounting *qi*, painful swollen testes, distention oppression in stomach duct, inhibited urination, vaginal discharge, snake or insect bites. Isolated compounds: 819, 820, 4680, 19987.
- T0275 *Akebia quinata* (Lardizabalaceae); YU ZHI ZI; Fiveleaf Akebia Seed. Used part: seed. TCM Effects: To course liver and harmonize stomach, quicken blood and relieve pain, soften hardness and dissipate binds, disinhibit urine. TCM Indications: Liver stomach *qi* stagnation, distending pain in stomach duct, distending pain in rib-side, non-digestion of food accumulation, dysentery, mounting *qi*, lumbago, amenorrhea and dysmenorrhea, goiter and tuberculosis, scrofula, carcinoma. Isolated compounds: 8814, 8815, 8816, 9274, 9276, 15712, 16050, 17945.
- T0276 *Akebia* spp. (Lardizabalaceae). Isolated compounds: 12642.
- T0277 *Akebia trifoliata* (Lardizabalaceae); SAN YE MU TONG; Threeleaf Akebia. Used part: stem. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 819, 984, 1854, 5953, 6050, 6051, 6058, 6059, 6138, 6139, 6981, 8608, 8640, 8719, 8720, 8747, 8766, 9275, 18419, 21812, 21813, 21814, 21824, 21825, 21826.
- T0278 *Akebia trifoliata* (Lardizabalaceae); SAN YE MU TONG GEN; Threeleaf Akebia Root. Used part: root. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 4680.
- T0279 *Akebia trifoliata* var. *australis* (Lardizabalaceae); BAI MU TONG; Austral Akebia. Used part: stem. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 9775, 22957.
- T0280 *Akebia trifoliata* var. *australis* (Lardizabalaceae); BAI MU TONG GEN; Austral Akebia Root. Used part: root. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 4680.
- T0281 *Alangium chinense* (Alangiaceae); BA JIAO FENG; Chinese Alangium. Equivalent plant: *Alangium platanifolium*. Used part: root. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, rheumatic arthritis, numbness in limbs, knocks and falls, adjuvant in anesthesia. Isolated compounds: 1125, 2277, 8731, 8751.
- T0282 *Alangium kurzii* (Alangiaceae); MAO BA JIAO FENG; Kurz Alangium. Used part: lateral root or fibril. TCM Effects: To soothe sinews and quicken blood, dissipate stasis and relieve pain. TCM Indications: Stasis swelling from knocks and falls, fracture. Isolated compounds: 1124, 1293.
- T0283 *Alangium lamarckii* (Alangiaceae); AN GE LA BA JIAO FENG; Angola Alangium*. Isolated compounds: 828, 829, 830, 831, 1293, 3400, 18095.
- T0284 *Alangium platanifolium* var. *platanifolium* (Alangiaceae); GUA MU BIAN ZHONG; Planeleaf Alangium Variety*. Isolated compounds: 17521, 17522, 17523, 17524, 17525, 17526, 17527.
- T0285 *Alangium platanifolium* (Alangiaceae); GUA MU; Planeleaf Alangium. Used part: root. TCM Effects: See *Alangium chinense*. TCM Indications: See *Alangium chinense*. Isolated compounds: 1124.
- T0286 *Alangium premnifolium* (Alangiaceae). Isolated compounds: 13644, 13645.
- T0287 *Albatrellus confluens* (Polyporaceae); YUN NAN DI HUA JUN; Yunnan Landflower Mushroom*. Isolated compounds: 843.
- T0288 *Albatrellus ovinus* (Polyporaceae); RE BEN MO GU; Japanese

- Mushroom*(Sheep Polypore). Isolated compounds: 7906, 7910, 10538.
- T0289 *Albertisia papuana* (Menispermaceae). Isolated compounds: 9597, 16439.
- T0290 *Albizzia adinocephala* (Fabaceae); BA NA MA HE HUAN; Panamanian Albizia*. Isolated compounds: 2700, 2701.
- T0291 *Albizzia anthelmintica* (Fabaceae); QU CHONG HE HUAN; Musenna Albizia. Isolated compounds: 5251, 15131.
- T0292 *Albizzia julibrissin* (Fabaceae); HE HUAN PI; Silktree Albizia Bark. Used part: bark. TCM Effects: To quiet spirit and resolve depression, quicken blood and disperse welling abscess. TCM Indications: Disquieted heart spirit, depression, insomnia, welling abscess and sores, knocks and falls. Isolated compounds: 59, 60, 855, 856, 862, 3171, 11916, 11917, 11918, 11919, 11920, 11921, 11922, 11923, 11924, 11925, 11926, 11927, 11928, 11929, 11930, 11931, 11932, 11933, 11934, 11935, 11936, 11937, 11938, 11939, 11940, 11941, 11942, 13288, 13289, 15708, 20557, 20558, 20567.
- T0293 *Albizzia lebeck* (Fabaceae); KUO JIA HE HUAN; Siris-acacia. Used part: bark. TCM Effects: To disperse swelling and relieve pain, promote astriction and check drain. TCM Indications: Painful swelling from knocks and falls, sore and boil, toxin swelling, ophthalmia, gum erosion, hemorrhoids, diarrhea. Isolated compounds: 7951, 18407.
- T0294 *Albizzia lophantha* (Fabaceae); YU ZHUANG HE HUAN; Cape Leeuwin Wattle. Isolated compounds: 862, 6533.
- T0295 *Albizzia odoratissima* (Fabaceae); XIANG HE HUAN; Fragrant Albizia*. Used part: root and bark. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, quiet spirit. TCM Indications: Rheumatic arthritis, fracture due to knocks and falls, bleeding due to external injury, sores, scab and lichen, insomnia. Isolated compounds: 6240, 6264, 21914.
- T0296 *Alchornea floribunda* (Euphorbiaceae); DUO HUA SHAN MA GAN; Manyflower Christmasbush*. Isolated compounds: 871.
- T0297 *Alchornea trewioides* (Euphorbiaceae); HONG BEI SHAN MA GAN; Redback Christmashush. Used part: leaf and root. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin, kill worms and relieve itch. TCM Indications: Dysentery, heat strangury, stone strangury, hematuria, flooding and spotting with vaginal discharge, wind papules, eczema, scab and lichen, decayed toothache, bedsore. Isolated compounds: 13438.
- T0298 *Alectoria vivens* (Usneaceae); JIN SI DAI; Green Alectoria Filament. Used part: filament. TCM Effects: To eliminate wind-damp, stanch bleeding and relieve pain, quicken blood and regulate menstruation, quiet spirit and calm, fortify spleen and stomach. TCM Indications: Taxation damage pain in lumbus and legs, bleeding due to external injury, menstrual disorder, prolapse of uterus, vaginal discharge, mental disease, epilepsy, hemiplegia, impotence, dizziness and dim vision. Isolated compounds: 1596, 22523, 22625.
- T0299 *Aleurites cordata* [Syn. *Aleurites fordii*] (Euphorbiaceae); TONG YOU; Tung Oil. Used part: seed oil. TCM Effects: To promote vomiting and expel phlegm drool, clear heat and resolve toxin, contract damp and kill worms. TCM Indications: Scab and lichen, shank sore, burns and scalds, cracking from frostbite. Isolated compounds: 4055, 6748, 6749, 13438, 16564, 20237, 21905, 21984.
- Aleurites fordii* = *Aleurites cordata*
- T0300 *Aleurites moluccana* (Lamiaceae); SHI LI ZI; Belgaum Walnut Seed. Used part: seed. TCM Effects: To quicken blood, moisten intestines. TCM Indications: Amenorrhea, intestinal dry and constipation. Isolated compounds: 8808.
- T0301 *Aleuritopteris argentea* (Sinopteridaceae); TONG JING CAO; Silvery Aleuritopteris. Used part: whole herb. TCM Effects: To regulate menstruation, suppress cough, dispel damp. TCM Indications: Cough, menstrual disorder, red and white vaginal discharge. Isolated compounds: 886.
- T0302 *Alhagi pseudalhagi* (Fabaceae); LUO TUO CI; Manaplant Alhagi Sweet Secretion. Used part: sweet secretion. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Steaming bone vexation thirst, blood dysentery, diarrhea, abdominal pain, headache. Isolated compounds: 7807, 9646, 14583, 20563.
- T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (Alismataceae); ZE XIE; Oriental Waterplantain. Used part: tuber. TCM Effects: To lower cholesterol, disinhibit water and percolate damp, drain heat and free strangury, lower blood sugar levels. TCM Indications: Hyperlipemia, inhibited urination, heat strangury with inhibited pain, edema distention fullness, diarrhea, phlegm-rheum dizziness, emission. Isolated compounds: 888, 891, 892, 893, 894, 895, 896, 897, 898, 902, 903, 1257, 1258, 5151, 7050, 7051, 8011, 15336, 16184, 16185, 16189, 16190, 16191, 16192, 16193, 16194, 20472, 20473, 20474, 20475.
- Alisma plantago-aquatica* var. *orientale* = *Alisma orientale*
- T0304 *Alkanna tinctoria* (Boraginaceae); OU ZI CAO; Dyer's Alkanet. Isolated compounds: 909, 6302.
- T0305 *Allanblackia floribunda*. Isolated compounds: 21866.
- T0306 *Allanblackia monticola*. Isolated compounds: 918, 919.
- T0307 *Allemanda cathartica* (Apocynaceae); RUAN ZHI HUANG CHAN; Common Allemanda. Isolated compounds: 913, 914, 915, 11607, 17570.
- T0308 *Allemanda neriifolia* (Apocynaceae); HUANG CHAN; Oleanderleaf Allemanda. Isolated compounds: 7487.
- T0309 *Allium ampeloprasum* (Liliaceae); DA TOU SUAN; Wild Leek. Isolated compounds: 17864, 17865, 17913.
- T0310 *Allium ascalonicum* (Liliaceae); HU CONG; Shallot. Used part: bulb. TCM Effects: To resolve exterior, free yang, resolve toxin. TCM Indications: Wind-cold common cold, yin cold abdominal pain, urinary stoppage, swelling toxin of welling abscess and flat abscess, painful swelling from knocks and falls. Isolated compounds: 11504, 18343, 18346, 18368, 18410.
- T0311 *Allium cepa* (Liliaceae); YANG CONG; Common Onion. Used part: bulb. TCM Effects: To fortify stomach and rectify qi, resolve toxin and kill worms, lower blood-fat. TCM Indications: Reduced food intake with abdominal distention, wound, ulcer, trichomoniasis, hyperlipemia. Isolated compounds: 618, 921, 948, 953, 3182, 3183, 4048, 4134, 4438, 4442, 4443, 4444, 6342, 7768, 14277, 14278, 14690, 16902, 16903, 17174, 17181, 17912, 17913, 18343, 18346, 19912.
- T0312 *Allium cepa* var. *agrogatum* (Liliaceae); FEN NIE CONG TOU; Tillering Onion. Isolated compounds: 925, 17952.

- T0313 *Allium chinense* (Liliaceae); QIAO TOU; Chinese Onion. Used part: bulb. TCM Effects: See *Allium macrostemon*. TCM Indications: See *Allium macrostemon*. Isolated compounds: 3529, 12591, 12592, 12593, 12594, 20212, 20213.
- T0314 *Allium fistulosum* (Liliaceae); CONG BAI; Fistular Onion. Used part: fresh bulb. TCM Effects: To effuse exterior, free *yang*, resolve toxin, kill worms. TCM Indications: Wind-cold common cold, *yin* cold abdominal pain, inhibited urine and stool, dysentery, swelling pain of welling abscess and sore, abdominal pain due to worm accumulation. Isolated compounds: 920, 953.
- T0315 *Allium macleanii* (Liliaceae); MAI KE LIN JIU; MacLean Leek*. Isolated compounds: 4297.
- T0316 *Allium macrostemon* (Liliaceae); XIE BAI; Longstamen Onion. Equivalent plant: *Allium chinense*. Used part: bulb. TCM Effects: To promote *yang* and dissipate binds, rectify *qi* and loosen chest. TCM Indications: Chest impediment, phlegm-rheum cough asthma, diarrhea and tenesmus. Isolated compounds: 618, 952, 3528, 3579, 4296, 8669, 8671, 13326, 13327, 13328, 13329, 13330, 13331, 13332, 13333, 13334, 14436, 14755, 14770, 14793, 17939, 17952, 17953, 19231, 19232, 20026.
- T0317 *Allium porrum* (Liliaceae); JIU CONG; Leek. Isolated compounds: 4296, 12068, 12069, 12206, 19634, 20210, 20211.
- T0318 *Allium sativum* (Liliaceae); DA SUAN; Garlic. Used part: bulb. TCM Effects: To warm center and move stagnation, resolve toxin, kill worms. TCM Indications: Cold pain in stomach duct and abdomen, diarrhea, dysentery, bacillary dysentery, amebic dysentery, tuberculosis, epidemic encephalitis, cholera, trichomoniasis, laryngeal carcinoma, pertussis, throat impediment, dry cough, common cold, malaria, edema, swelling toxin of welling abscess and boil, intestinal welling abscess, lichen sore, snake or insect bites, ancylostomiasis, oxyuria disease, taenia infection, vaginal discharge and pudendal itch, clavus. Isolated compounds: 618, 785, 920, 921, 923, 924, 926, 944, 947, 948, 950, 951, 952, 953, 954, 3760, 4296, 5349, 5486, 6342, 6407, 6417, 6501, 6524, 6531, 8312, 10663, 11414, 14126, 14127, 14128, 14278, 14327, 14328, 14329, 14582, 14690, 14691, 14694, 14759, 16876, 17919, 17921, 17937, 17972, 17978, 19396, 20479, 21626, 22509, 22511, 22512, 22513, 22514, 22515, 22518.
- T0319 *Allium schoenoprasum* (Liliaceae); XI XIANG CONG; Chive-like. Used part: herb. TCM Effects: To resolve exterior, free *qi* and effuse sweat. TCM Indications: Wind-heat common cold, headache, cold-damp red swelling, pain wind, sore. Isolated compounds: 14662, 14691, 17927, 21370.
- T0320 *Allium senescens* (Liliaceae); SHAN JIU; Aging Leek. Isolated compounds: 4297.
- T0321 *Allium* sp. (Liliaceae). Isolated compounds: 6501.
- T0322 *Allium tuberosum* (Liliaceae); JIU CAI; Tuber Onion. Used part: leaf. TCM Effects: To supplement kidney, warm center, move *qi*, dissipate stasis, resolve toxin. TCM Indications: Kidney vacuity impotence, cold pain in abdomen, dysphagia-occlusion and stomach reflux, chest impediment, blood ejection, spontaneous external bleeding, hematuria, dysentery, hemorrhoids, swelling toxin of welling abscess and sore, lacquer sore, knocks and falls. Isolated compounds: 618, 948, 6342, 6414, 14126, 14690, 22075, 22076, 22079.
- T0323 *Allium tuberosum* (Liliaceae); JIU ZI; Tuber Onion Seed. Used part: seed. TCM Effects: To supplement liver and kidney, invigorate *yang* and secure essence. TCM Indications: Kidney vacuity impotence, limp aching lumbus and knees, emission, frequent urination, urinary turbidity, Vaginal discharge. Isolated compounds: 8710, 8742, 18720, 22081, 22082.
- T0324 *Allium victorialis* (Liliaceae); GE CONG; Longroot Onion. Used part: bulb. TCM Effects: To dissipate stasis, stanch bleeding, resolve toxin. TCM Indications: Knocks and falls, blood stasis swelling and pain, spontaneous external bleeding, swelling pain of welling abscess and sore. Isolated compounds: 948, 952, 12195, 14126, 15424, 22158.
- T0325 *Alnus crispa* (Betulaceae); MEI ZHOU LU QI MU; American Green Alder. Isolated compounds: 17421.
- T0326 *Alnus glutinosa* (Betulaceae); OU ZHOU QI MU; European Alder. Isolated compounds: 3388.
- T0327 *Alnus hirsute* var. *microphylla* (Betulaceae); XIAO YE YING MAO QI MU; Smallleaf-hirsute Alder*. Isolated compounds: 17754.
- T0328 *Alnus japonica* (Betulaceae); CHI YANG; Japanese Alder. Used part: bark, tender branchlet-leaf. TCM Effects: To clear heat and downbear fire, stanch bleeding. TCM Indications: Incessant nosebleed, bleeding due to external injury, water diarrhea. Isolated compounds: 958, 959, 960, 961, 963, 964, 965, 1110, 1113, 4930, 5829, 7445, 8788, 9219, 9550, 9551, 12082, 13097, 14489, 16174, 16175, 17547, 17548, 17754, 18411, 19211, 19312, 19609, 19610, 20389, 21843, 21844.
- T0329 *Alnus oregana* (Betulaceae); AO LEI TONG QI MU; Oregon Alder. Isolated compounds: 2331.
- T0330 *Alnus pendula* (Betulaceae); CHUI QI MU; Drooping Alder*. Isolated compounds: 966, 8081.
- T0331 *Alnus sieboldiana* (Betulaceae); XI BO DE QI MU; Siebold Alder*. Isolated compounds: 962, 17420, 17421.
- T0332 *Alnus* spp. (Betulaceae). Isolated compounds: 5763, 17547, 19312.
- T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*] (Araceae); JIAN WEI YU; Chinese Taro. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate binds and relieve pain. TCM Indications: Influenza, leptospirosis, early stage of sores and welling abscess toxin, scrofula, phlegmon, chronic osteomyelitis, poisonous snake bites, poisonous bee stings. Isolated compounds: 8012.
- T0334 *Aloe arborescens* var. *natalensis* (Liliaceae); WU GONG ZHANG; Arborescent Aloe*. Used part: fresh juice of leaf. TCM Effects: To drain fire and resolve toxin, free stool. TCM Indications: Liver fire and red eyes, dizziness, lung heat cough asthma, repletion heat constipation, swelling pain of welling abscess and sore, erythematous lupus. Isolated compounds: 981.
- T0335 *Aloe ballyi* (Liliaceae); BEI LI LU HUI; Bally Aloe*. Isolated compounds: 3979.
- Aloe barbadensis* = *Aloe vera*
- T0336 *Aloe cremonophila* (Liliaceae). Isolated compounds: 9615.
- T0337 *Aloe distans* (Liliaceae). Isolated compounds: 9615.
- T0338 *Aloe ferox* (Liliaceae); HAO WANG JIAO LU HUI; Cape of Good Hope Aloe Dried Juice. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: See *Aloe vera*. TCM Indications: See *Aloe vera*. Isolated compounds: 967, 974, 975, 977, 978, 980, 981, 7755, 7761, 7762, 7763, 11204.

- T0339 *Aloe gililandii* (Liliaceae); JI SHI LU HUI; Gililand Aloe*. Isolated compounds: 3979.
- T0340 *Aloe jacksonii* (Liliaceae). Isolated compounds: 9615.
- T0341 *Aloe marlothii* (Liliaceae); MA SHI LU HUI; Marloth Aloe. Isolated compounds: 9772, 9774, 14129, 14130.
- T0342 *Aloe perryi* (Liliaceae); PEI LI LU HUI; Perry Aloe*. Isolated compounds: 981.
- T0343 *Aloe ruspoliana* (Liliaceae); LA SHI LU HUI; Ruspol Aloe*. Isolated compounds: 3979.
- T0344 *Aloe sabaea* (Liliaceae); SA BA LU HUI; Saba Aloe. Isolated compounds: 3543, 3979, 6332.
- T0345 *Aloe* sp. (Liliaceae). Isolated compounds: 967.
- T0346 *Aloe* spp. (Liliaceae); DUO ZHONG LU HUI TI QU WU; Extracts of *Aloe* spp. Isolated compounds: 973.
- T0347 *Aloe vera* [Syn. *Aloe barbadensis*] (Liliaceae); LU HUI; Kulaso Aloe Dried Juice. Equivalent plant: *Aloe ferox*, *Aloe vera* var. *chinensis*. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: To clear liver and relieve constipation. TCM Indications: Constipation, child *gan* accumulation, ascariasis, fright wind, lichen. Isolated compounds: 967, 972, 973, 976, 981, 1365, 3040, 3046, 3138, 3585, 3615, 4135, 4146, 4672, 7771, 8761, 9333, 9486, 9615, 9773, 11205, 11409, 12436, 13368, 13507, 13508, 16831, 18739, 19087, 20444, 20446, 22843.
- T0348 *Aloe vera* var. *chinensis* (Liliaceae); BAN WEN LU HUI; Chinese Aloe Dried Juice. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: See *Aloe vera*. TCM Indications: See *Aloe vera*. Isolated compounds: 967, 979, 981, 3209, 12569, 12891, 12893, 16561, 20280.
- T0349 *Alomia myriadenia*. Isolated compounds: 2048, 7078, 10296, 10297, 18682.
- T0350 *Alphonsea sclerocarpa* (Annonaceae). Isolated compounds: 12641.
- T0351 *Alphonsea* spp. (Annonaceae). Isolated compounds: 15751.
- T0352 *Alpinia allughas* (Zingiberaceae); A LU HA LIANG JIANG; Allugha Galangal*. Isolated compounds: 17055.
- T0353 *Alpinia blepharocalyx* (Zingiberaceae); YUN NAN CAO KOU; Yunnan Galangal. Used part: fruit. TCM Effects: To dry damp, warm stomach, fortify spleen. TCM Indications: Stomach cold abdominal pain, distention fullness in stomach duct, dysphagia-occlusion, belching, stomach reflux, cold-damp vomiting and diarrhea. Isolated compounds: 2468, 2498, 2499, 2500, 3012, 3014, 3015, 3016, 3018, 3019, 3020, 3021, 3022, 4135, 4882, 4900, 4936, 5156, 5548, 5777, 5778, 5779, 5780, 5788, 5804, 6217, 6844, 6846, 6847, 6848, 6849, 9300, 9815, 9974, 10099, 10100, 10411, 10412, 13859, 14254, 14500, 14613, 15351, 15352, 17174, 19987.
- T0354 *Alpinia chinensis* (Zingiberaceae); LIAN JIANG; Chinese Galangal. Used part: rhizome. TCM Effects: To warm stomach and dissipate cold, disperse food and relieve pain. TCM Indications: Stomachache with distention and oppression, dysphagia-occlusion and stomach reflux, abdominal pain and diarrhea, rheumatism, cold pain of joints. Isolated compounds: 985, 9669, 11806.
- T0355 *Alpinia flabellata* (Zingiberaceae); SHAN SHAN JIANG; Flabellate Galangal*. Isolated compounds: 10042, 10043, 10791, 10801, 12419, 21892, 21901, 21931, 21932, 21933, 21934.
- T0356 *Alpinia galanga* (Zingiberaceae); DA LIANG JIANG; Galanga Galangal. Used part: rhizome. TCM Effects: To warm stomach, dissipate cold, relieve pain. TCM Indications: *Qi* pain in heart and stomach, stomach cold, food damage vomiting and diarrhea. Isolated compounds: 140, 195, 675, 3048, 7521, 8079, 8080, 8081, 8082, 13896, 14245, 15987, 17923.
- T0357 *Alpinia japonica* (Zingiberaceae); TU SHA REN; Japanese Galangal. Used part: fruit or seed. TCM Effects: To move *qi*, regulate center, fortify stomach. TCM Indications: Glomus, abdominal distention and pain, vomiting, diarrhea. Isolated compounds: 989, 3048, 12331, 18682.
- T0358 *Alpinia katsumadai* (Zingiberaceae); CAO DOU KOU; Katsumada Galangal. Used part: seed. TCM Effects: To dispel damp and strengthen spleen, warm stomach and check vomiting. TCM Indications: Spleen-stomach Cold-damp obstructing, distention fullness and pain in stomach duct and abdomen, vomiting, diarrhea. Isolated compounds: 966, 985, 3187, 6487.
- T0359 *Alpinia officinarum* (Zingiberaceae); GAO LIANG JIANG; Lesser Galangal. Used part: rhizome. TCM Effects: To warm stomach, dispel wind, dissipate cold, move *qi*, relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea. Isolated compounds: 2052, 2850, 6185, 6488, 7481, 7521, 8081, 9498, 9855, 10027, 10186, 10188, 10191, 10214, 10215, 10450, 10451, 10630, 12015, 13921, 13962, 13967, 14245, 15965, 17376, 18317, 19997.
- T0360 *Alpinia oxyphylla* (Zingiberaceae); YI ZHI REN; Sharpleaf Galangal. Used part: fruit. TCM Effects: To warm spleen, check diarrhea, warm kidney, reduce urine, secure essence. TCM Indications: Spleen-stomach vacuity cold, vomiting and diarrhea, cold pain in abdomen, drooling, enuresis due to kidney vacuity, frequent urination, emission, white turbidity. Isolated compounds: 11364, 11614, 11806, 12403, 12800, 12891, 12893, 14536, 15438, 15704, 15705, 16066, 16461, 16462, 16463, 16464, 16465, 16466, 16467, 16468, 16561, 19689, 20204, 20899, 22876, 22877.
- T0361 *Alpinia pinnanensis* (Zingiberaceae); ZHU SUI SHAN JIANG; Pinnan Galangal. Isolated compounds: 986, 987, 988, 3013, 3017, 6843, 6845.
- T0362 *Alpinia* sp. (Zingiberaceae). Isolated compounds: 3695.
- T0363 *Alpinia speciosa* (Zingiberaceae); DA CAO KOU; Beautiful Galangal. Used part: seed. TCM Effects: To dissipate cold and dry damp, dispel phlegm and interrupt malaria, fortify spleen and warm stomach. TCM Indications: Cold pain in heart and abdomen, distention fullness in chest and abdomen, cold-damp accumulation and obstruction, indigestion, vomiting and diarrhea. Isolated compounds: 985, 2550, 3187, 4936, 9669, 14245, 15204.
Alsomitra graciliflora = *Hemsleya graciliflora*
- T0364 *Alsophila spinulosa* (Cyatheaceae); SUO LUO; Spiny Alsophila. Used part: stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, relieve cough and calm asthma, clear heat and resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, knocks and falls, intestinal pain due to *qi* disorder, wind-fire toothache, cough, asthma, scab and lichen, ascariasis, oxyuria disease, prevention of influenza. Isolated compounds: 9286, 9287.
- T0365 *Alsophila* spp. (Cyatheaceae). Isolated compounds: 22581.

- T0366 *Alstonia angustifolia* (Apocynaceae); XIA YE JI GU CHANG SHAN; Narrowleaf Alstonia*. Isolated compounds: 670, 995, 5058, 5059, 12451, 13879.
- T0367 *Alstonia boonei* (Apocynaceae); GAN LAO JI GU CHANG SHAN; Boone Alstonia. Isolated compounds: 6699.
- T0368 *Alstonia constricta* (Apocynaceae); SHU JI GU CHANG SHAN; Constricted Alstonia*. Isolated compounds: 1002, 18623.
- T0369 *Alstonia legouixiae* (Apocynaceae). Isolated compounds: 18303.
- T0370 *Alstonia macrophylla* (Apocynaceae); DA YE TANG JIAO SHU; Deviltree Alstonia. Isolated compounds: 310, 669, 994, 996, 997, 998, 999, 1000, 1001, 1003, 1004, 1005, 1006, 5060, 5061, 6259, 6270, 9776, 9777, 9977, 9978, 13316, 13837, 13878, 14036, 14724, 16292, 16293, 18302, 18303, 20652, 22494, 22495, 22610.
- T0371 *Alstonia mairei* (Apocynaceae); YANG JIAO MIAN; Maire Alstonia. Used part: leaf. TCM Effects: To resolve toxin, stanch bleeding. TCM Indications: Swelling toxin of welling abscess and sore, bleeding due to external injury. Isolated compounds: 942, 17375, 18074, 19386, 21055.
- T0372 *Alstonia quaternata* (Apocynaceae); SI SHU JI GU CHANG SHAN; Quaternary Alstonia*. Isolated compounds: 18303.
- T0373 *Alstonia restricta* (Apocynaceae); YOU XIAN YA JIAO SHU; Limited Alstonia*. Isolated compounds: 21055.
- T0374 *Alstonia scholaris* (Apocynaceae); XIANG PI MU; Common Alstonia. Used part: bark or leaf. TCM Effects: To clear heat and resolve toxin, relieve cough and dispel phlegm, stanch bleeding and disperse swelling. TCM Indications: Common cold with fever, lung heat cough asthma, pertussis, icterohepatitis, stomachache, vomiting and diarrhea, malaria, swollen welling abscess and sores, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 1110, 1111, 1249, 3040, 3760, 6698, 6699, 13100, 13501, 14138, 17296, 17329, 18752, 18753, 19612, 20369, 21055, 22092, 22327.
- T0375 *Alstonia spatulata* (Apocynaceae); DAO ZHUANG JI GU CHANG SHAN; Spatulate Alstonia*. Isolated compounds: 6699.
- T0376 *Alstonia spectabilis* (Apocynaceae); ZHUANG GUAN JI GU CHANG SHAN; Spectacular Alstonia*. Isolated compounds: 6699.
- T0377 *Alstonia venenata* (Apocynaceae); YIN DU YA JIAO SHU; Venenous Alstonia*. Isolated compounds: 1007, 12268, 22375.
- T0378 *Alstonia yunnanensis* (Apocynaceae); DIAN JI GU CHANG SHAN; Yunnan Alstonia. Used part: root or branchlet-leaf. TCM Effects: To interrupt malaria, clear heat and resolve toxin, stanch bleeding and disperse swelling. TCM Indications: Malaria, common cold with fever, lung heat cough, swelling pain in throat, mouth and tongue sores, swelling toxin of welling abscess and sore, knocks and falls, bleeding due to external injury. Isolated compounds: 4768, 7012, 16379, 18633, 22368.
- T0379 *Alternanthera philoxeroides* (Amaranthaceae); KONG XIN XIAN; Alligator Alternanthera. Used part: fresh aerial parts. TCM Effects: To clear heat and cool blood, resolve toxin, disinherit urine. TCM Indications: Viral infection, toxic hepatitis, icterohepatitis, epidemic hemorrhagic conjunctivitis, hemoptysis, hematuria, common cold with fever, hemorrhagic fever, measles papules, encephalitis of early stage, encephalitis B, jaundice, strangury-turbidity, epidemic parotitis, eczema, swollen welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 2973, 9588, 9589, 16052, 18743.
- T0380 *Alternanthera repens* (Amaranthaceae); CI HUA LIAN ZI CAO; Spinyflower Alternanthera. Isolated compounds: 6171, 6172, 6173, 6174.
- T0381 *Aithaea officinalis* (Malvaceae); YAO SHU KUI; Marshmallow. Isolated compounds: 20566.
- T0382 *Aithaea rosea* (Malvaceae); SHU KUI HUA; Hollyhock Flower. Used part: flower. TCM Effects: To harmonize blood and stanch bleeding, resolve toxin and dissipate binds. TCM Indications: Blood ejection, spontaneous external bleeding, profuse menstruation, red and white vaginal discharge, urinary and fecal stoppage, child wind papules, malaria, welling abscess and flat abscess with swollen boil, scorpion sting, burns and scalds. Isolated compounds: 9424.
- T0383 *Alyxia sinensis* (Apocynaceae); LIAN ZHU TENG; China Alyxia. Used part: whole herb with root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, blood stasis and menstrual block, stomachache, diarrhea, knocks and falls, damp beriberi. Isolated compounds: 2170.
- T0384 *Amanita pantherina* (Amanitaceae); BAO BAN E GAO; Leopard Leather Mushroom*; Tengutake (in Japanese). Isolated compounds: 1052, 10592, 10744.
- T0385 *Amanita phalloides* (Amanitaceae); DU E GAO; Death Cap. Isolated compounds: 17040.
- T0386 *Amanita* spp. (Amanitaceae). Isolated compounds: 10938.
- T0387 *Amaranthus caudatus* (Amaranthaceae); WEI SUI XIAN; Love-lies-bleeding. Used part: root. TCM Effects: To fortify spleen, disperse gan. TCM Indications: Fatigue hypodynamia due to spleen-stomach vacuity, reduced food intake, child gan accumulation. Isolated compounds: 1013, 2318.
- T0388 *Amaranthus lividus* (Amaranthaceae); AO TOU XIAN; Emarginate Amaranth. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disinherit urine. TCM Indications: Dysentery, diarrhea, swelling toxin of clove sore, poisonous snake bites, stings, inhibited urination [=dysuria], edema. Isolated compounds: 16901.
- T0389 *Amaranthus tricolor* (Amaranthaceae); YAN LAI HONG; Three-coloured Amaranth. Used part: herb. TCM Effects: To clear heat and resolve toxin, disinherit urine and free stool. TCM Indications: Dysentery, urinary and fecal stoppage, snake or insect bites, sore toxin. Isolated compounds: 1013.
- T0390 *Amaryllis belladonna* (Amaryllidaceae); GU TING HUA; Jersey Lily. Isolated compounds: 1016, 1021, 3152, 4241, 9547, 10826, 13241, 16600.
- T0391 *Amaryllis belladonna* [hybrida] (Amaryllidaceae); GU TING HUA ZA JIAO ZHONG; Jersey Lily Hybrid. Isolated compounds: 2219. *Amaryllis radiata* = *Lycoris radiata*
- T0392 *Amberboa lippi* (Asteraceae); LI PU PO JU; Lipp Amberboa*. Isolated compounds: 1022.
- T0393 *Amberboa muricata* (Asteraceae); AN BEI JU; Muricate Amberboa*. Isolated compounds: 4565.
- T0394 *Amberboa ramosa* (Asteraceae); FEN ZHI PO JU; Ramose Amberboa*. Isolated compounds: 1476, 14452, 14511.
- T0395 *Ambrosia acanthicarpa* (Asteraceae); CI GUO TUN CAO; Bur Sage.

- Isolated compounds: 3467.
- T0396 *Ambrosia ambrosioides* (Asteraceae); PU TONG TUN CAO; Ragweed. Isolated compounds: 4624.
- T0397 *Ambrosia artemisiaefolium* (Asteraceae); MEI ZHOU TUN CAO; American Ragweed*. Isolated compounds: 1028.
- T0398 *Ambrosia artemisiifolia* (Asteraceae); TUN CAO; Common Ragweed. Used part: herb. TCM Effects: To kill snails. Isolated compounds: 4624, 4625, 18081, 18082, 18083, 21328.
- T0399 *Ambrosia chamissonis* (Asteraceae); CHA MI SEN TUN CAO; Chamisson Ragweed. Isolated compounds: 7030.
- T0400 *Ambrosia confertiflora* (Asteraceae); MI HUA TUN CAO; Denseflower Ragweed*. Isolated compounds: 3972, 19308, 20664.
- T0401 *Ambrosia dumosa* (Asteraceae); BAI CI GUO TUN CAO; White Bur Sage. Isolated compounds: 3972, 7030, 20664.
- T0402 *Ambrosia hispida* (Asteraceae); CU YING MAO TUN CAO; Hispid Ragweed*. Isolated compounds: 9564.
- T0403 *Ambrosia maritima* (Asteraceae); YAN HAI TUN CAO; Oak-of-Cappadocia. Isolated compounds: 1029.
- T0404 *Ambrosia polystachya* (Asteraceae); DUO SUI TUN CAO; Manyspike Ragweed. Isolated compounds: 8982.
- T0405 *Ambrosia psilostachya* (Asteraceae); LUO SUI TUN CAO; Perennial Ragweed. Isolated compounds: 16674, 18081, 18082, 18083.
- T0406 *Ambrosia psilostachya* var. *coronifolia* (Asteraceae); GUAN LUO SUI TUN CAO; Crestedspike Ragweed. Isolated compounds: 4087.
- T0407 *Ambrosia* spp. (Asteraceae). Isolated compounds: 16675.
- T0408 *Amelanchier* spp. (Rosaceae). Isolated compounds: 17287.
- T0409 *Amentotaxus yunnanensis* (Taxaceae); YUN NAN SUI HUA SHAN; Yunnan Amentotaxus. Isolated compounds: 5600, 6199, 13126, 19756, 19757, 19983, 20107.
- T0410 *Ammi majus* (Apiaceae); DA A MI; Big Ammi. Isolated compounds: 933, 22774.
- T0411 *Ammi* sp. (Apiaceae). Isolated compounds: 2309.
- T0412 *Ammi visnaga* (Apiaceae); CHI A MI; Tooth Ammi. Isolated compounds: 1960, 5707, 12221, 19227, 22530, 22552, 22553.
- T0413 *Ammocharis coranica* (Amaryllidaceae). Isolated compounds: 472, 4237, 13241, 14352, 14389.
- T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*] (Fabaceae); SHA DONG QING; Mongolian Ammopiptanthus. Equivalent plant: *Piptanthus nanus*. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Rheumatic pain in joints, frostbite. Isolated compounds: 16206.
- T0415 *Amomum aculeatum* (Zingiberaceae); CI DOU KOU; Aculeate Amomum*. Isolated compounds: 589, 10159.
- T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*] (Zingiberaceae); BAI DOU KOU; Round Cardamom. Used part: seed. TCM Effects: To transform damp and move *qi*, warm center and check vomiting, increase appetite and disperse food. TCM Indications: Spleen-stomach *qi* stagnation due to damp obstructing middle-jiao, vomiting with stomach cold, vomiting of milk in infants with stomach cold. Isolated compounds: 2550, 3237, 3241, 3242, 9669, 9671, 9672, 9673, 13771, 20995, 20997.
- T0417 *Amomum longiligulare* (Zingiberaceae); HAI NAN SHA REN; Hainan Amomum. Used part: ripe fruit or seed. TCM Effects: See *Amomum villosum*. TCM Indications: See *Amomum villosum*. Isolated compounds: 2557.
- T0418 *Amomum muricarpum* (Zingiberaceae); YOU GUO DOU KOU; Wartyfruit Amomum. Used part: fruit. TCM Effects: To warm center and transform damp, fortify stomach and disperse food, check vomiting and quiet fetus. TCM Indications: Cold pain in stomach duct, vomiting, diarrhea, malign obstruction in pregnancy, stirring fetus disquieted. Isolated compounds: 15080, 15081.
- T0419 *Amomum villosum* (Zingiberaceae); SHA REN; Villous Amomum. Equivalent plant: *Amomum xanthioides*, *Amomum longiligulare*. Used part: ripe fruit or seed. TCM Effects: To move *qi* and regulate center, harmonize stomach and arouse spleen. TCM Indications: Abdominal pain glomus distention, food stagnation in torpid stomach, dysphagia-occlusion, vomiting, cold dysentery, stirring fetus in pregnancy. Isolated compounds: 2550, 2557, 3048, 15500, 20364.
- T0420 *Amomum xanthioides* (Zingiberaceae); SUO SHA MI; Locklebur-like Amomum. Used part: ripe fruit or seed. TCM Effects: See *Amomum villosum*. TCM Indications: See *Amomum villosum*. Isolated compounds: 1192, 2276, 2548, 2549, 2550, 2557, 9880, 9881, 15976, 22335, 22468.
- T0421 *Amorpha fruticosa* (Fabaceae); ZI SUI HUAI; Indigobush Amorpha. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel damp and disperse swelling. TCM Indications: Welling abscess, burns and scalds, eczema. Isolated compounds: 1071, 7481, 7883, 20965.
- T0422 *Amorphophallus* sp. (Araceae). Isolated compounds: 11025.
- T0423 *Ampelopsis brevipedunculata* (Vitaceae); SHE PU TAO; Ampelopsis. Used part: stem-leaf. TCM Effects: To disinhibit urine, clear heat, eliminate inflammation, allay thirst. TCM Indications: Chronic nephritis, hepatitis, pain of hot urine, stomach heat vomiting, wind papules, sore toxin, bleeding due to external injury. Isolated compounds: 1113, 1764, 7441, 12020, 14892, 18643.
- T0424 *Ampelopsis brevipedunculata* var. *hancei* (Vitaceae); GUANG YE SHE PU TAO; Hance Snakegrape. Used part: root and root cortex. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Damp-heat jaundice, enteritis, dysentery, innominate toxin swelling, knocks and falls. Isolated compounds: 1075, 1077, 1078, 16550.
- Ampelopsis cantoniensis* var. *grossedentata* = *Ampelopsis grossedentata*
- T0425 *Ampelopsis chaffanjonii* (Vitaceae); YU YE SHE PU TAO; Chaffanjon Ampelopsis. Isolated compounds: 1079.
- T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*] (Vitaceae); XIAN CHI SHE PU TAO; Bigdentate Ampelopsis. Used part: stem-leaf or root. TCM Effects: To clear heat and resolve toxin, disinhibit damp and disperse swelling. TCM Indications: Common cold with fever, swelling pain in throat, icterohepatitis, red eyes with gall, swollen sore of welling abscess and boil. Isolated compounds: 1026, 1074, 15170, 15184.
- T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*] (Vitaceae); BAI LIAN; Japanese Ampelopsis. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dissipate binds and relieve pain, close sores and engender flesh. TCM Indications: Swelling toxin of sore and welling abscess, burns and scalds, scrofula, damp sore, warm malaria, fright

- epilepsy, blood dysentery, intestinal wind, hemorrhoids and fistulas, leukorrhea, knocks and falls, bleeding due to external injury. Isolated compounds: 1074, 2687, 8095, 16836.
- T0428 *Ampelopsis megalophylla* (Vitaceae); DA YE SHE PU TAO; Largeleaf Ampelopsis. Used part: branch-leaf. TCM Effects: To clear heat and disinhibit damp, calm liver and lower blood pressure, quicken blood and free network vessels. TCM Indications: Dysentery, diarrhea, dribbling pain of urination, hypertension, dizzy head and distention eyes, knocks and falls. Isolated compounds: 1074.
- T0429 *Amphidinium carterae* (Gymnodiniaceae); KA SHI QIAN GOU ZAO. Isolated compounds: 6426, 6519, 20282.
- T0430 *Amphimedon paraviridis* Sponge Amphimedon paraviridis. Isolated compounds: 6364.
- T0431 *Amphipterygium adstringens* (Julianaceae); SHOU LIAN LIANG YI MU; Cuachalalate (local name). Isolated compounds: 6980, 10364, 19983.
- T0432 *Amphoricarpos neumayeri* ssp. *murbeckii* (Asteraceae). Isolated compounds: 314, 5335, 11756, 11757.
- T0433 *Amphoricarpos neumayeri* ssp. *neumayeri* (Asteraceae). Isolated compounds: 314, 5335, 11756, 11757.
- T0434 *Amsonia sinensis* (Apocynaceae); SHUI GAN CAO; China Amsonia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Children wind-heat, erysipelas, sore toxin. Isolated compounds: 1088, 1089, 19916.
- T0435 *Anabasis aphylla* (Chenopodiaceae); WU YE JIA MU ZEI; Leafless Anabasis. Used part: twig. TCM Effects: To kill worms. Isolated compounds: 1124, 1474, 13104.
- T0436 *Anabasis brevifolia* (Chenopodiaceae); DUAN YE JIA MU ZEI; Shortleaf Anabasis. Isolated compounds: 8625, 10799, 14175.
- T0437 *Anabasis salsa* (Chenopodiaceae); YAN SHENG JIA MU ZEI; Salliving Anabasis. Isolated compounds: 8625, 10799, 14175.
- T0438 *Anacardium occidentale* (Anacardiaceae); DU XIAN ZI; Common Cashew Fruit. Used part: fruit. TCM Effects: To moisten lung and transform phlegm, eliminate vexation and allay thirst. TCM Indications: Cough and counterflow, vexation and thirst. Isolated compounds: 1128, 2380, 3188, 8403, 15279.
- T0439 *Anadenanthera colubrina* (Fabaceae); XI CHANG NAN MEI DOU. Isolated compounds: 1110, 1131, 13097, 13098.
- T0440 *Anagallis arvensis* (Primulaceae); LIU LI FAN LV; Scarlet Pimpernel. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Crane's knee wind, *yin* syndrome with sores, poisonous snake bites, rabid dog bite. Isolated compounds: 1132, 1133, 1825, 1826, 1827.
- T0441 *Anagyris foetida* (Fabaceae); CHOU WEI HONG DOU; Bean Trefoil. Isolated compounds: 1134.
- T0442 *Anamirta cocculus* (Menispermaceae). Isolated compounds: 6097, 17348.
- T0443 *Anamirta paniculata* (Menispermaceae); YIN DU FANG JI. Isolated compounds: 17347.
- T0444 *Ananas comosus* (Bromeliaceae); FENG LI; Pineapple. Used part: pericarp. TCM Effects: To resolve toxin, check dysentery, relieve cough. TCM Indications: Dysentery, cough. Isolated compounds: 4451, 10967, 13126, 20434.
- T0445 *Anaphalis contorta* (Asteraceae); XUAN YE XIANG QING; Coiledleaf Pearleverlasting. Isolated compounds: 7751.
- T0446 *Anaphalis margaritacea* (Asteraceae); DA YE BAI TOU WENG; Common Pearleverlasting. Used part: whole herb with root. TCM Effects: To clear heat and drain fire, dry damp, expel worms. TCM Indications: Blood ejection, stomach fire toothache, damp-heat dysentery, ascariasis, mammary welling abscess, scrofula, ulcer of lower limb. Isolated compounds: 3564, 4947, 6027, 10048.
- T0447 *Anchusa officinalis* (Boraginaceae); YAO YONG NIU SHE CAO; Alkanet. Isolated compounds: 3847, 12925.
- T0448 *Anchusa strigosa* (Boraginaceae); CU MAO NIU SHE CAO; Hemnhem (in Jordan). Isolated compounds: 2454, 9319, 10181, 18663, 18664, 18665, 18666, 20487, 21145, 21489.
- T0449 *Ancistrocladus heyneanus* (Ancistrocladaceae); HAI NI GOU ZHI TENG; Indian Liana. Isolated compounds: 1141, 1142, 1143, 1144, 1145, 1147.
- T0450 *Ancistrocladus korupensis* (Ancistrocladaceae); GOU ZHI TENG; Ancistrocladus*. Isolated compounds: 14831.
- T0451 *Ancistrocladus likoko* (Ancistrocladaceae); ZHONG FEI GOU ZHI TENG; Central-African Ancistrocladus*. Isolated compounds: 1146.
- T0452 *Andira inermis* (Fabaceae); WU CI KE YA SHU; Angelin-tree. Isolated compounds: 676, 1928, 3004, 3005, 3006, 3007, 3700, 5659, 7883, 13281, 13638.
- T0453 *Andrographis echinoides* (Acanthaceae); LAN JI CHUAN XIN LIAN; Echiniumlike Andrographis. Isolated compounds: 5604.
- T0454 *Andrographis elongata* (Acanthaceae); SHEN CHANG CHUAN XIN LIAN; Elongate Andrographis*. Isolated compounds: 10026, 20004, 20007, 20008, 21774.
- T0455 *Andrographis lineata* (Acanthaceae); TIAO WEN CHUAN XIN LIAN; Linea Andrographis*. Isolated compounds: 5717, 10785, 16869.
- T0456 *Andrographis neesiana* (Acanthaceae). Isolated compounds: 6696, 9506, 10794.
- T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*] (Acanthaceae); CHUAN XIN LIAN; Common Andrographis. Used part: dried aerial parts. TCM Effects: To clear heat and resolve toxin, drain fire, dry damp. TCM Indications: Infection of upper respiratory tract, fever, wind-heat common cold, bacillary dysentery, diarrhea, tonsillitis, pneumonia, tuberculosis, lung heat cough, pulmonary welling abscess, postlithotripsy urinary tract infection, warm disease fever, pertussis, swelling pain in throat, damp-heat jaundice, strangury syndrome, erysipelas, sore and welling abscess, eczema, poisonous snake bite. Isolated compounds: 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 4680, 4876, 4901, 5152, 5167, 5183, 5200, 10024, 10793, 10795, 14137, 14928, 15337, 16609, 16610, 16611, 19987, 20004, 21180.
- T0458 *Andrographis rothii* (Acanthaceae). Isolated compounds: 6695, 10022, 21181.
- T0459 *Andrographis serpyllifolia* (Acanthaceae); BAI LI XIANG YE CHUN XIN LIAN; Andrographis*. Isolated compounds: 20005, 20006.
- T0460 *Andrographis viscosula* (Acanthaceae); NAN YIN DU CHUAN XIN LIAN; South-India Andrographis*. Isolated compounds: 10789, 16870, 21183, 21912, 21915.
- T0461 *Andropogon* sp. (Poaceae). Isolated compounds: 17455.

- T0462 *Anemarrhena asphodeloides* (Liliaceae); ZHI MU; Common Anemarrhena. Used part: rhizome. TCM Effects: To clear heat and drain fire, enrich *yin* and moisten dryness, eliminate vexation and allay thirst. TCM Indications: Diabetes mellitus, warm heat disease, ardent fever with vexation and thirst, cough and asthma, dry cough, constipation, steaming bone tidal fever, vacuity vexation and insomnia, strangury-turbidity. Isolated compounds: 1171, 1172, 1173, 1174, 1175, 1176, 1177, 3589, 4298, 4870, 8401, 8670, 9546, 10615, 11524, 13331, 13481, 13569, 13570, 14926, 15397, 15526, 15528, 16827, 19390, 20025, 20027, 20209, 20217, 21393, 21394, 21395, 22796.
- T0463 *Anemone altaica* (Ranunculaceae); A ER TAI YIN LIAN HUA; Altai Anemone*. Used part: rhizome. TCM Effects: To transform phlegm and open orifices, quiet spirit, diffuse damp and arouse spleen, resolve toxin. TCM Indications: Febrile diseases clouded spirit, epilepsy, *qi*-block deafness, heavy dreams and amnesia, oppression in chest and abdomen distention, inappetence, wind-damp impediment pain, welling abscess and flat abscess, scab and lichen. Isolated compounds: 21209.
- T0464 *Anemone anhuiensis* (Ranunculaceae); AN HUI YIN LIAN HUA; Anhui Anemone*. Isolated compounds: 1253, 1254, 1255, 1256.
- T0465 *Anemone begoniifolia* (Ranunculaceae); LUAN YE YIN LIAN HUA; Ovateleaf Anemone. Isolated compounds: 2211, 2212, 2213, 14573, 14574.
- T0466 *Anemone coronaria* (Ranunculaceae); HUA GUAN YIN LIAN HUA; St. Brigid. Isolated compounds: 4436, 5013, 5014, 5015, 5016.
- T0467 *Anemone flaccida* (Ranunculaceae); E ZHANG CAO; Flaccid Anemone. Used part: rhizome. TCM Effects: To dispel wind-damp, disinhibit sinews and bones. TCM Indications: Wind-damp pain, knocks and falls. Isolated compounds: 7806.
- T0468 *Anemone hupehensis* (Ranunculaceae); DA PO WAN HUA HUA; Hupeh Anemone. Used part: root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and kill worms, dissipate stasis and disperse swelling. TCM Indications: Dysentery, diarrhea, malaria, ascariasis, swollen welling abscess, sore and boil, scrofula, knocks and falls, acute icterohepatitis. Isolated compounds: 1178.
- T0469 *Anemone obtusiloba* (Ranunculaceae); DUN LIE YIN LIAN HUA; Obtuselobed Anemone. Isolated compounds: 15905, 15906, 15907.
- T0470 *Anemone raddeana* (Ranunculaceae); DUO BEI YIN LIAN HUA; Radde Windflower. Used part: rhizome. TCM Effects: To dispel wind-damp, dissipate cold and relieve pain, disperse swollen welling abscess. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, aching pain in joints, swelling pain of welling abscess and sore. Isolated compounds: 6755, 6756, 16059, 18516, 18517, 18518, 18520, 18521.
- T0471 *Anemone rivularis* (Ranunculaceae); HU ZHANG CAO; Brooklet Anemone. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and soothe sinews, disperse swelling, relieve pain. TCM Indications: Swelling pain in throat, mumps, scrofula, swelling toxin of welling abscess and flat abscess, malaria, cough, damp-heat jaundice, wind-damp pain, stomachache, toothache, knocks and falls. Isolated compounds: 2334, 9692, 9693, 9694, 9695, 16060, 18855.
- T0472 *Anethum graveolens* (Apiaceae); SHI LUO ZI; Dill Fruit. Used part: fruit. TCM Effects: To warm spleen and kidney, increase appetite, move *qi*, dissipate cold, resolve toxin of fish and meat. TCM Indications: Sand foulness retching, cold pain in abdomen, cold mounting, glomus fullness. Isolated compounds: 2276, 3237, 5177, 5207, 5209, 5220, 5808, 5810, 6141, 6142, 6193, 7334, 7443, 8237, 8808, 8810, 9841, 10433, 10471, 10953, 12843, 13741, 13747, 13753, 13754, 13777, 13778, 13877, 14419, 20569, 21339, 21359, 22196, 22252.
- T0473 *Anethum* sp. (Apiaceae). Isolated compounds: 12420, 22552.
- T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*] (Apiaceae); DONG DANG GUI; Acute-lobed Angelica. Used part: root. TCM Effects: To supplement blood and quicken blood, regulate menstruation and relieve pain, moisten dryness and lubricate intestines. TCM Indications: Blood vacuity, menstrual disorder, dysmenorrhea, amenorrhea, postpartum abdominal pain, intestinal dry and constipation. Isolated compounds: 2797, 2803, 4550, 7852, 11690, 12825.
- T0475 *Angelica acutiloba* var. *sugiyamae* (Apiaceae); BEI HAI DANG GUI; Northsea Angelica*. Isolated compounds: 4550, 7852.
- T0476 *Angelica anomala* (Apiaceae); XIA YE DANG GUI; Narrowleaf Angelica. Used part: root. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-cold common cold, headache and nasal congestion, deep-source nasal congestion, gum swelling and pain, swelling of sores, vaginal discharge. Isolated compounds: 1347.
- T0477 *Angelica archangelica* (Apiaceae); YUAN DANG GUI; Angelica. Isolated compounds: 1619, 12395, 16261, 16263, 16457, 21371, 22774, 22775.
- T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] (Apiaceae); BAI ZHI; Dahurian Angelica. Used part: root. TCM Effects: To dispel wind and resolve exterior, dispel damp and relieve pain. TCM Indications: Wind-cold common cold, nasal congestion, headache (especially in forehead and superciliary region), toothache, infections, acute mastitis, sores, excessive leukorrhea, stomachache. Isolated compounds: 933, 934, 1191, 2041, 2833, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 5098, 6371, 7455, 7672, 9088, 9379, 9486, 11001, 11462, 13571, 13571, 14269, 14391, 14656, 14925, 15348, 15647, 15695, 15699, 15950, 15957, 16457, 16460, 16488, 16833, 17056, 17077, 19542, 19704, 21041, 21043, 21611, 22195, 22220, 22221.
- T0479 *Angelica dahurica* cv. *qibaizhi* (Apiaceae); QI BAI ZHI; Qibaizhi Angelica*. Used part: root. TCM Effects: See *Angelica taiwaniana*. TCM Indications: See *Angelica taiwaniana*. Isolated compounds: 618, 11001, 11462, 14204, 17077.
- T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*] (Apiaceae); QIAN HU; Common Hogfennel. Equivalent plant: *Peucedanum praeruptorum*, *Peucedanum longshengens*, *Peucedanum rubricale*, *Ligusticum brachylobum*. Used part: root. TCM Effects: To course wind and dissipate heat, downbear *qi* and transform phlegm. TCM Indications: Cough, externally contracted wind-heat, lung heat phlegm depression, cough and asthma with abundant phlegm, sticky phlegm, retching counterflow and reduced food intake, fullness and oppression in chest and diaphragm. Isolated compounds: 213, 4677, 4678, 4859, 4862, 4863, 7385, 9786, 9787, 12527, 15645, 15647, 16772, 17028, 20225, 22119, 22120, 22121.

- T0481 *Angelica furcijuga* (Apiaceae); FEN CHA DANG GUI; Furcate Angelica*. Isolated compounds: 1213, 1214, 1523, 1536, 2041, 3857, 6838, 7411, 7768, 9835, 10922, 10923, 10924, 10925, 10926, 10927, 11001, 11412, 11462, 11637, 12020, 16456, 16459, 17034, 17757, 18282, 22195, 22775.
- T0482 *Angelica genuflexa* (Apiaceae); QU XI DANG GUI; Genuflex Angelica*. Isolated compounds: 17375.
- T0483 *Angelica gigas* (Apiaceae); CHAO XIAN DANG GUI; Gigantic Angelica. Used part: root. TCM Effects: To extinguish wind and harmonize blood. TCM Indications: Pain in joints, wrenching and contusion. Isolated compounds: 4862, 4863, 5098, 7052, 7053, 9968, 10197, 10765, 11462, 13571, 14078, 15645, 15647, 17035, 22195, 22774, 22781.
- T0484 *Angelica glabra* (Apiaceae); GUANG HUA DANG GUI; Glabrate Angelica*. Isolated compounds: 1193, 2833, 17077.
- T0485 *Angelica japonica* (Apiaceae); RI BEN DANG GUI; Japanese Angelica*. Isolated compounds: 22530.
- T0486 *Angelica keiskei* (Apiaceae); BIN HAI DANG GUI; Seashore Angelica*. Isolated compounds: 9992.
- T0487 *Angelica keiskei* (Apiaceae); KAI SHI DANG GUI; Keislce Angelica*. Isolated compounds: 1619.
- T0488 *Angelica longeradiata* (Apiaceae); CHANG BIAN HUA DANG GUI; Longradiate Angelica*. Isolated compounds: 1619.
- T0489 *Angelica officinalis* (Apiaceae); YAO YONG DANG GUI; Medicinal Angelica*. Isolated compounds: 22774.
- T0490 *Angelica pachycarpa* (Apiaceae); HOU GUO DANG GUI; Thickfruit Angelica*. Isolated compounds: 13571, 14204, 16263.
- T0491 *Angelica polymorpha* (Apiaceae); GUAI QIN; Polymorphic Angelica. Used part: root. TCM Effects: To dispel wind and effuse exterior, warm center and dissipate cold, rectify *qi* and relieve pain. TCM Indications: Wind-cold exterior syndrome, wind-damp impediment pain, pain in stomach duct and abdomen, chest and rib-side pain, knocks and falls. Isolated compounds: 1195.
Angelica porphyrocaulis = *Angelica dahurica*
Angelica pubescens = *Angelica pubescens* f. *biserrata*
- T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*] (Apiaceae); DU HUO; Doubleteeth Pubescent Angelica. Equivalent plant: *Heracleum lanatum*. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment (especially in lower part of body), pain in lumbus and knees, headache, toothache. Isolated compounds: 1048, 1188, 1191, 1193, 1194, 1196, 1197, 1198, 1199, 1200, 1349, 2306, 2411, 2412, 3351, 3935, 3936, 3937, 3938, 4029, 4234, 4497, 4550, 6412, 6485, 6494, 6546, 6741, 7229, 8002, 9044, 9669, 11221, 11249, 11462, 11601, 11628, 13572, 13781, 13827, 14272, 14323, 14324, 14349, 14621, 14631, 14792, 15146, 15219, 15500, 15645, 15647, 15683, 15974, 16261, 16708, 16829, 17055, 17376, 18086, 19542, 20156, 20524, 20988, 21043, 21360, 21371, 22195, 22774.
- T0493 *Angelica radix* (Apiaceae); ZHI GEN DANG GUI; Taproot Angelica*. Isolated compounds: 2797.
- T0494 *Angelica shkiokiana* (Apiaceae); SHI SHI DANG GUI; Shkioki Angelica*. Isolated compounds: 7054.
- T0495 *Angelica sinensis* (Apiaceae); DANG GUI; Chinese Angelica. Equivalent plant: *Phlojodicarpus sibiricus*. Used part: root. TCM Effects: To nourish blood and regulate menstruation, quicken blood, relieve pain, moisten intestines and relieve constipation. TCM Indications: Women's diseases, blood deficiency syndrome, menstrual disorder, amenorrhea and dysmenorrhea, dysmenorrhea due to anemia, thrombophlebitis, neuralgia, arthritis, chronic nephritis, constrictive aortitis, blood vacuity, pernicious anemia, anemia due to folic acid deficiency, dysentery, hepatitis, Raynaud's disease, lumbago, various pains due to blood stasis and rheumatic impediment, sores, welling abscess, constipation, ulcer in gastrointestinal tract, skin diseases, eczema, dermatitis, neurodermatitis, psoriasis. Isolated compounds: 555, 556, 557, 558, 617, 618, 939, 1190, 1284, 2056, 2351, 2412, 2600, 2791, 2797, 3045, 3051, 3231, 3350, 3466, 3589, 3855, 4233, 4234, 5442, 5693, 5749, 6317, 6330, 6373, 6398, 6406, 6542, 7472, 7473, 7477, 7768, 7853, 9021, 9071, 9486, 9618, 9619, 11336, 11421, 12800, 12825, 12826, 14330, 15203, 15528, 17056, 17089, 17204, 18656, 19542, 19596, 20369, 20372, 20444, 21041, 21068, 21941, 21957, 22237, 22252, 22322, 22336, 22556.
- T0496 *Angelica* spp. (Apiaceae). Isolated compounds: 22195.
- T0497 *Angelica sylvestris* (Apiaceae); LIN BAI ZHI; Wild Angelica. Isolated compounds: 1960, 11578, 16263.
- T0498 *Angelica taiwaniana* (Apiaceae); HANG BAI ZHI; Taiwan Angelica. Equivalent plant: *Angelica dahurica* cv. *Qibaizhi*. Used part: root. TCM Effects: To dispel wind and eliminate damp, free orifices and relieve pain, disperse swelling and expel pus. TCM Indications: Common cold with headache, eyebrow bone pain, toothache, nasal congestion, deep-source nasal congestion, enduring diarrhea due to damp, leukorrhea, sores with welling abscess and flat abscess, poisonous snake bites. Isolated compounds: 934, 1238, 1347, 2309, 2834, 3856, 11001, 11301, 11462, 11578, 13968, 15348, 17077, 21944, 21969, 22774, 22775.
- T0499 *Angelica ursina* (Apiaceae); BEI FANG DANG GUI; Northern Angelica*. Isolated compounds: 1193, 9419, 18165.
- T0500 *Anguilla japonica* (Anguillidae); MAN LI YU; Japanese Eel. Used part: meat or whole fish. TCM Effects: To fortify spleen and supplement lung, dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Indigestion, child *gan* accumulation, tuberculosis with cough, impotence, flooding and spotting with vaginal discharge, beriberi with edema, wind-damp bone pain, intestinal wind, dysentery, sore, hemorrhoids and fistulas, malaria, intestinal parasitic disease. Isolated compounds: 1350, 3205, 9568.
Anisodus acutangulus = *Scopolia acutangula*
- T0501 *Anisodus luridus* (Solanaceae); SAI LANG DANG; Common Anisodus. Used part: root. TCM Effects: To resolve spasm and relieve pain. TCM Indications: Stomachache, cholecystalgia, acute gastroenteritis, chronic gastroenteritis. Isolated compounds: 2001, 4417, 19541, 22050.
- T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (Solanaceae); ZANG QIE; Tangut Anisodus. Used part: root and seed. TCM Effects: To anesthetize and settle pain, resolve tetany and disperse swelling. TCM Indications: Shock, shock due to acute infectious diseases, cerebral thrombosis, acute spinal cord inflammation, spasm of biliary ducts or duodenum, acute gastroenteritis, chronic gastroenteritis, contracture

- pain in stomach duct and abdomen, ascariidosis in biliary tract, gallstones, swelling toxin of welling abscess and flat abscess, knocks and falls, fracture. Isolated compounds: 663, 1287, 1288, 4417, 10870, 10872, 10873, 22050.
- T0503 *Anisomeles indica* [Syn. *Epimeredi indica*] (Lamiaceae); GUANG FANG FENG; Indian Epimeredi. Used part: whole herb. TCM Effects: To dispel wind-damp, disperse sore toxin. TCM Indications: Common cold with fever, wind-damp impediment pain, swelling toxin of welling abscess and sore, eczema of skin, snake or insect bites. Isolated compounds: 6965, 16161, 16280, 16444.
- T0504 *Annona bullata* (Annonaceae); PAO ZHUANG FAN LI ZHI; Bullate Custardapple*. Isolated compounds: 2735, 16677.
- T0505 *Annona cherimolia* (Annonaceae); MAO YE FAN LI ZHI; Cherimoya. Isolated compounds: 1297, 1298, 1299, 1303, 1304, 1305, 1317, 3512, 3513, 3514, 3515, 6827, 6828, 11793, 12452, 14906, 16266, 18899, 18907, 22099.
- T0506 *Annona glabra* (Annonaceae); YUAN HUA FAN LI ZHI; Glabrous Custardapple. Isolated compounds: 1301, 1307, 1318, 3294, 8494, 8495, 15781, 17041, 18655.
- T0507 *Annona glauca* (Annonaceae); ROU MAO FAN LI ZHI; Glauous Custardapple*. Isolated compounds: 8508.
- T0508 *Annona montana* (Annonaceae); SHAN FAN LI ZHI; Montana Custardapple*. Isolated compounds: 1306, 1307, 1308, 1313, 1314, 1315, 1316, 1324, 1325, 8379, 8946, 14934, 14935, 14936, 14937, 14938, 14939, 14940, 14941, 14942, 14943, 22817.
- T0509 *Annona muricata* (Annonaceae); CI GUO FAN LI ZHI; Guanabana. Isolated compounds: 1294, 1295, 1296, 1302, 1307, 1308, 1310, 1311, 1312, 1313, 1315, 1320, 1321, 1322, 1679, 1856, 2735, 4089, 4090, 4091, 4135, 5240, 8946, 11864, 12956, 15082, 15083, 15084, 15084, 15085, 15085, 15087, 15088, 15089, 15090, 15091, 15092, 15093, 15094, 15095, 15096, 15097, 15098, 15099, 15339, 18898, 19096, 20051, 20240, 22816.
- T0510 *Annona purpurea* (Annonaceae); ZI FAN LI ZHI; Soncoya. Isolated compounds: 8524, 16339, 16414, 18211, 18214, 18215, 21246.
- T0511 *Annona reticulata* (Annonaceae); NIU XIN FAN LI ZHI; Bullocksheart Custardapple. Used part: fruit. TCM Effects: To clear heat and check dysentery, expel worms. TCM Indications: Heat toxin dysentery, intestinal parasitic disease. Isolated compounds: 1306, 1317, 1324, 1348, 11223, 11224, 11225, 12917, 14906, 15099, 18653, 18655, 18899, 19198, 20051, 20244, 22818.
- T0512 *Annona spinescens* (Annonaceae); CI ZHUANG FAN LI ZHI; Spined Custardapple*. Isolated compounds: 17006.
- T0513 *Annona squamosa* (Annonaceae); FAN LI ZHI; Custard Apple. Used part: fruit. TCM Effects: To supplement stomach and spleen, clear heat and resolve toxin, kill worms. TCM Indications: Malign sore and swelling toxin, intestinal parasitic disease. Isolated compounds: 1309, 1319, 1326, 1327, 1328, 1329, 1330, 1331, 1348, 2735, 2736, 5928, 5929, 5930, 5932, 6972, 7788, 9706, 9722, 9723, 9757, 10275, 10276, 10277, 10542, 12178, 12917, 14906, 15766, 18655, 20239, 20240, 20241, 20242, 20244, 20245, 20246, 20247, 20248.
- T0514 *Anodendron affine* (Apocynaceae); SHAN TENG; Common Anodendron. Isolated compounds: 1935, 15493, 22718.
- T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*] (Basellaceae); LUO KUI SHU. Used part: dried strumose bulbel in vine. TCM Effects: To supplement kidney and strengthen lumbus, dissipate stasis and disperse swelling. TCM Indications: Impediment pain in lumbus and knees, weakness during convalescence, knocks and falls, fracture. Isolated compounds: 12526.
- T0516 *Anser cygnoides domestica* (Anatidae); BAI E GAO; Goose Fat. Used part: fat of goose. TCM Effects: To moisten skin, disperse swollen welling abscess. TCM Indications: Cracking, deafness, otitis media, dysphagia-occlusion and stomach reflux, drug poisoning, swollen welling abscess, scab and lichen. Isolated compounds: 3511, 20281, 21984.
- T0517 *Anser cygnoides domestica* (Anatidae); E CUI; Goose Tail-meat. Used part: tail meat. TCM Indications: Otitis media, deafness. Isolated compounds: 21194, 21205.
- T0518 *Antennaria geyeri* (Asteraceae). Isolated compounds: 6065, 10567.
- T0519 *Antenoron neofiliforme* (Polygonaceae) DUAN MAO JIN XIAN CAO GEN; Shorthairy Antenoron. Isolated compounds: 17869, 17881.
- T0520 *Anthemis altissima* (Asteraceae); GAO CHUN HUANG JU; Tall Chamomile. Isolated compounds: 1352, 1353.
- T0521 *Anthemis carpatica* (Asteraceae). Isolated compounds: 148, 1354, 1356, 1357, 4355, 4715, 5148, 7048, 9730, 10078, 11292, 11293, 11298, 11299, 17932, 21373, 21379.
- T0522 *Anthemis cretica* ssp. *cretica* [Syn. *Anthemis montana*] (Asteraceae); MENG DA NA CHUN HUANG JU; Montana Chamomile*. Isolated compounds: 1204, 1355.
- T0523 *Anthemis nobilis* (Asteraceae); GAO GUI CHUN HUANG JU; Common Chamomile. Isolated compounds: 1502, 2887, 7768, 15637, 21176, 22035.
- T0524 *Anthemis* sp. (Asteraceae). Isolated compounds: 19545.
- T0525 *Anthemis* spp. (Asteraceae). Isolated compounds: 549.
- T0526 *Anthopleura stell* (Actiniidae); LV HAI KUI; Green Anemone. Isolated compounds: 14816.
- T0527 *Anthoxanthum* sp. (Poaceae). Isolated compounds: 5440.
- T0528 *Anthriscus cerefolium* (Apiaceae); XUE WEI CAI; Garden Chervil. Isolated compounds: 17028.
- T0529 *Anthriscus sylvestris* (Apiaceae); E SHEN; Woodland Beakchervil. Used part: root. TCM Effects: To supplement spleen and boost qi, disperse swelling. TCM Indications: Spleen vacuity and food distention, stomachache, lassitude in limbs, cough and asthma due to lung vacuity, senile nocturia, blood ejection from knocks and falls. Isolated compounds: 1232, 1280, 1372, 1621, 2764, 5543, 6367, 9544, 9789, 10833, 11228, 14966, 15647, 16263, 17592, 18832.
- T0530 *Anthyllis sericea* (Fabaceae). Isolated compounds: 6194.
- T0531 *Anthyllis vulneraria* (Fabaceae); LIAO SHANG RONG MAO HUA; Kidney Vetch. Isolated compounds: 7802.
- T0532 *Antiaris africana* (Moraceae); FEI ZHOU JIAN XUE FENG HOU; African Antiaris*. Isolated compounds: 1377.
- T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*] (Moraceae); JIAN XUE FENG HOU; Common Antiaris. Used part: juice and seed. TCM Effects: To strengthen heart, promote vomiting, drain precipitation, anesthetize (juice), resolve heat (seed), promote lactation. TCM Indications: Scrofula (juice), dysentery (seed). Isolated compounds:

- 1374, 1375, 1376, 1377, 1378, 1461, 1462, 13418, 16937, 16959, 20396, 20404.
- T0534 *Antiaris welwitschii* (Moraceae); GANG GUO JIAN XUE FENG HOU; Congo Antiaris*. Isolated compounds: 1377.
- T0535 *Antidesma bunius* (Euphorbiaceae); WU YUE CHA; Bignay Chinalaurel. Used part: root, leaf and fruit. TCM Effects: To fortify spleen, engender liquid, quicken blood, resolve toxin. TCM Indications: Reduced food intake and diarrhea, fluid damage and thirst, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 4616.
- T0536 *Antirhea acutata* (Moraceae); JIAN RUI MAO CHA; Acute Antirhea*. Isolated compounds: 1398, 1449, 1450.
- T0537 *Antirrhinum majus* (Scrophulariaceae); JIN YU CAO; Common Snapdragon. Used part: whole herb. TCM Effects: To clear summerheat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Toxin swelling of sores, knocks and falls. Isolated compounds: 1494, 4446.
- T0538 *Antrodia camphorata* (Poliporaceae); Niu-Chang chih; Jang Jy (in Taiwan). Isolated compounds: 1351, 7251, 10234, 10235, 11277, 11278, 11279, 22990, 22991, 22992.
- T0539 *Apis cerana* (Apidae); FENG DU; Apisin. Used part: apisin. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Rheumatic arthritis, aching pain in lumbus muscle, neuralgia, hypertension, urticaria, asthma. Isolated compounds: 9568.
- T0540 *Apis cerana* (Apidae); FENG MI; Honey. Used part: honey. TCM Effects: To supplement stomach and spleen, relax tension and relieve pain, moisten lung and relieve cough, moisten intestines and free stool, moisten skin and engender flesh, resolve toxin. TCM Indications: Pain in stomach duct and abdomen, lung heat dry cough, intestinal dry and constipation, red eyes, mouth sore, enduring sores, wind papule itching, burns and scalds, cracking of hands and feet. Isolated compounds: 351, 7853, 18261.
- T0541 *Apis cerana* (Apidae); FENG RU; Royal Jelly. Used part: royal jelly. TCM Effects: To enrich and supplement, enrich and invigorate, boost liver, fortify spleen. TCM Indications: Weakness during convalescence, gan accumulation, senile vacuity weakness, septicemia, chronic hepatitis, duodenal ulcer, rheumatic arthritis, hypertension, diabetes mellitus, dysfunctional uterine bleeding, infertility. Isolated compounds: 351, 2393, 7853, 9966, 9967, 11083, 11084, 11085, 12399.
- T0542 *Apis cerana* (Apidae); MI LA; Bee Wax. Used part: bee wax. TCM Effects: To resolve toxin, engender flesh, check dysentery, stanch bleeding, settle pain. TCM Indications: Effusion of back from welling abscess and flat abscess, enduring sores, acute heart pain, dysentery with pus and blood, chronic diarrhea, stirring fetus with bleeding, emission, Vaginal discharge. Isolated compounds: 10895, 15190, 15191, 16823, 18096.
- T0543 *Apis mellifera ligustica* (Apidae); FENG JIAO; Propolis. Used part: bee glue. TCM Effects: To eliminate inflammation and relieve pain, moisten skin and engender flesh. TCM Indications: Gastric ulcer, oral ulcer, cervical erosion, zoster, psoriasis, skin chap and pain, clavus, wound, carcinoma. Isolated compounds: 56, 1476, 2330, 2890, 3600, 6399, 6499, 8081, 9967, 11806, 12020, 18317, 18679.
- T0544 *Apium graveolens* (Apiaceae); HAN QIN; Wildcelery. Used part: herb. TCM Effects: To calm liver, clear heat, dispel wind, disinhibit water, stanch bleeding, resolve toxin, lower blood pressure. TCM Indications: Hypertension, hypercholesterolemia, headache and dizziness, red face and eyes, blood strangury, swollen welling abscess. Isolated compounds: 1502, 2791, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3604, 3855, 8827, 8990, 9021, 13439, 15204, 16884, 17021, 19784, 21974.
- T0545 *Apium graveolens* var. *dulce* (Apiaceae); HAN QIN BIAN ZHONG; Wildcelery Variety. Isolated compounds: 1476, 2803.
- T0546 *Apium leptophyllum* (Apiaceae); XIAN YE QIN; Thinleaf Celery. Isolated compounds: 19784.
- T0547 *Apium* sp. (Apiaceae). Isolated compounds: 22195.
- T0548 *Aplysia dactylomela* (Aplysiidae). Isolated compounds: 4595.
- T0549 *Aplysia oculifera* (Aplysiidae). Isolated compounds: 20251.
- T0550 *Apocynum androsaemifolium* (Apocynaceae); DIAN DI MEI YE CHA YE HUA; Spreading Dogbane. Isolated compounds: 117, 4549.
- T0551 *Apocynum cannabinum* (Apocynaceae); JIA ZHU TAO MA; Black Indian Hemp. Isolated compounds: 117, 4549.
- T0552 *Apocynum lancifolium* (Apocynaceae); HONG MA; Lanceleaf Dogbane*. Isolated compounds: 11642, 18317.
- T0553 *Apocynum venetum* (Apocynaceae); LUO BU MA; Dogbane. Used part: whole herb. TCM Effects: To clear heat and calm liver, disinhibit water and disperse edema, check hyperactivity, lower blood pressure. TCM Indications: Cardiac failure, hypertension, edema, cirrhosis with ascites, edema in pregnancy, dizziness, headache, palpitation, insomnia, scant urine with edema, chronic bronchitis, influenza. Isolated compounds: 1367, 1527, 1528, 1529, 1530, 1935, 3308, 4547, 4549, 10887, 11642, 12020, 15416, 18317, 18363, 20397, 20398, 20400.
- T0554 *Aquilaria agallocha* (Thymelaeaceae); CHEN XIANG; Eaglewood. Equivalent plant: *Aquilaria sinensis*. Used part: resinous wood. TCM Effects: To calm, move *qi* and relieve pain, warm center and downbear counterflow, check vomiting, accept *qi* and calm asthma. TCM Indications: Cold pain in stomach duct and abdomen, *qi* counterflow with asthma, stomach cold with retching counterflow, vacuity cold in lumbus and knees, vacuity constipation, *qi* strangury. Isolated compounds: 275, 703, 704, 705, 706, 707, 768, 769, 770, 771, 772, 2111, 2114, 2274, 3831, 4934, 5539, 5660, 5807, 6083, 6486, 6912, 7101, 7179, 8863, 9029, 9030, 9032, 9034, 9036, 9708, 9996, 10211, 10212, 10441, 10617, 11199, 11869, 11870, 11871, 12164, 12375, 12917, 13852, 13906, 13997, 14057, 14058, 14477, 14522, 14725, 14726, 15447, 15768, 17113, 17114, 17119, 17120, 17121, 17122, 19677, 19678, 19682, 19683, 19685, 21030, 21120, 21121, 21131, 21785.
- T0555 *Aquilaria sinensis* (Thymelaeaceae); BAI MU XIANG; Chinese Eaglewood. Used part: resinous wood. TCM Effects: See *Aquilaria agallocha*. TCM Indications: See *Aquilaria agallocha*. Isolated compounds: 704, 706, 1284, 2111, 2112, 2113, 2114, 3566, 4881, 5660, 5996, 6082, 6084, 6258, 6283, 10210, 10439, 10440, 10616, 11245, 11869, 13852, 13999, 14000, 14058, 17113, 19924, 19925.
- T0556 *Aquilaria* sp. (Thymelaeaceae). Isolated compounds: 14057.
- T0557 *Aquilegia ecalcarata* (Ranunculaceae); WU JU LOU DOU CAI;

- Spurless Columbine. Used part: whole herb with root. TCM Effects: To resolve exterior and abate fever, draw out toxin and engender flesh. TCM Indications: Common cold with headache, putrefying sore, yellow-water sore. Isolated compounds: 1476, 1541, 10024, 11233, 13137.
- T0558 *Aquilegia vulgaris* (Ranunculaceae); OU ZHOU LOU DOU CAI; European Columbine. Isolated compounds: 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551.
- T0559 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG; Peanut. Used part: seed. TCM Effects: To fortify spleen and nourish stomach, moisten lung and transform phlegm. TCM Indications: Stomach reflux, scant breast milk, beriberi, lung heat dry cough, dry stool. Isolated compounds: 1056, 1598, 3040, 3585, 5789, 6489, 6855, 6856, 6858, 6859, 6860, 6861, 12714, 12892, 13137, 14350, 14385, 17842, 17866, 17867, 17869, 17884, 17886, 18209, 18643, 20369, 20995, 21415, 22561.
- T0560 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG YOU; Peanut Oil. Used part: seed oil. TCM Effects: To lubricate intestines and precipitate accumulation. TCM Indications: Ileus due to roundworm, mazi-schisis, scalds. Isolated compounds: 8045, 10895.
- T0561 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG ZHI YE; Peanut Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin, quiet heart and spirit, lower blood pressure. TCM Indications: Knocks and falls, sore toxin. Isolated compounds: 16889.
- T0562 *Arachniodes dimorphophylla* (Dryopteridaceae); Twoshape Arachniodes. Isolated compounds: 11239, 11240.
- T0563 *Arachniodes exilis* (Dryopteridaceae); CI TOU FU YE ER JUE. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, close sores. TCM Indications: Dysentery, burns and scalds. Isolated compounds: 11239, 11240.
- T0564 *Arachniodes nipponica* (Dryopteridaceae); Guizhou Arachniodes. Isolated compounds: 11239, 11240.
- T0565 *Arachniodes simplicior* (Dryopteridaceae); CHANG WEI FU YE ER JUE; Simple Arachniodes. Used part: rhizome. TCM Effects: To clear heat and resolve toxin. TCM Indications: Internal heat and abdominal pain. Isolated compounds: 11239, 11240.
- T0566 *Aragoa cundinamarcensis* (Plantaginaceae). Isolated compounds: 1602.
- T0567 *Aralia armata* (Araliaceae); HU CI CONG MU; Spine Aralia. Used part: root, root cortex, branch-leaf. TCM Effects: To dissipate stasis, dispel wind, disinherit damp, resolve toxin. TCM Indications: Knocks and falls, wind-damp impediment pain, damp-heat jaundice, strangury-turbidity, edema, dysentery, leukorrhea, pain in stomach duct, headache, swelling pain in throat, mammary welling abscess, innominate toxin swelling, scrofula. Isolated compounds: 2973.
- T0568 *Aralia chinensis* (Araliaceae); CONG MU; Japanese Aralia. Equivalent plant: *Aralia dasyphylla*. Used part: bast. TCM Effects: To dispel wind and eliminate damp, disinherit water and harmonize center, quicken blood and resolve toxin. TCM Indications: Pain in joints due to rheumatism, aching in lumbus and legs, kidney vacuity and edema, diabetes mellitus, knocks and falls, fracture, pain in stomach duct, blood ejection, spontaneous external bleeding, malaria, lacquer sore, medullitis, deep pus ulcer. Isolated compounds: 1608, 1611, 16050, 19540.
- T0569 *Aralia cordata* (Araliaceae); TU DANG GUI; Udo. Equivalent plant: *Aralia fargesii*. Used part: rhizome and root. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, harmonize blood and relieve pain. TCM Indications: Wind-damp pain, aching in lumbus and knees, wilting-impediment of limbs, taxation damage in lumbar muscle, crane's knee wind, sprain of hands and feet, fracture, head wind, headache, toothache. Isolated compounds: 3241, 5930, 9669, 10647, 10648, 12178, 12205, 16050, 17371, 17372, 20529.
- T0570 *Aralia dasyphylla* (Araliaceae); TOU XU CONG MU; Hairyleaf Aralia. Used part: bast. TCM Effects: See *Aralia chinensis*. TCM Indications: See *Aralia chinensis*. Isolated compounds: 9266, 10551.
- T0571 *Aralia decaisneana* (Araliaceae); HUANG MAO CONG MU; Yellowhair Aralia. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and free menstruation, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold and headache, cough, wind-damp impediment pain, aching in lumbus and legs, damp-heat jaundice, edema, strangury-turbidity, vaginal discharge, menstrual block, postpartum wind pain, painful swelling from knocks and falls, pain in stomach duct, swelling pain in throat, gum swelling and pain. Isolated compounds: 1601.
- T0572 *Aralia elata* (Araliaceae); LIAO DONG CONG MU; Liaodong Aralia. Used part: root cortex or bark. TCM Effects: To supplement *qi* and quiet spirit, strengthen essence and enrich kidney, dispel wind and quicken blood, dispel damp and relieve pain. TCM Indications: Neurasthenia, rheumatic arthritis, hepatitis, diabetes mellitus, gastrospasm, constipation, bleeding due to external injury. Isolated compounds: 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 3976, 3977, 3978, 14335, 14629, 16050, 18534, 20383, 20384.
- T0573 *Aralia elata* (Araliaceae); LIAO DONG CONG MU YE; Liaodong Aralia Leaf*. Used part: tender leaf and gemma. TCM Effects: To clear heat and disinherit damp. TCM Indications: Damp-heat diarrhea, dysentery, edema. Isolated compounds: 1690, 6641, 9272, 16049, 22273.
- T0574 *Aralia fargesii* (Araliaceae); LONG YAN DU HUO; Farges Aralia. Used part: rhizome and root. TCM Effects: See *Aralia cordata*. TCM Indications: See *Aralia cordata*. Isolated compounds: 663, 7707, 19540, 19542, 22195.
- T0575 *Aralia subcapitata* (Araliaceae); AN HUI CONG MU; Subcapitate Aralia. Isolated compounds: 16402.
- T0576 *Aralia taibaiensis* (Araliaceae); TAI BAI CONG MU; Taibaian Aralia. Isolated compounds: 3521, 16052, 20613, 20614, 20615, 20616, 20617, 20618, 20619.
- T0577 *Araucaria angustifolia* (Araucariaceae); ZHAI YE NAN YANG SHAN; Candelabar Tree. Isolated compounds: 7512, 9546, 12520, 15959, 15960, 15961, 17409, 19514, 21938.
- T0578 *Araucaria bidwillii* (Araucariaceae); DA YE NAN YANG SHAN; Bunya Bunya. Isolated compounds: 710, 4376.
- T0579 *Araucaria imbricata* (Araucariaceae). Isolated compounds: 10996.
- T0580 *Araucaria* sp. (Araucariaceae). Isolated compounds: 18864.
- T0581 *Araujia sericifera* (Asclepiadaceae). Isolated compounds: 2230, 2232, 2269, 17785, 17786, 17787, 17788, 17789, 17790, 17791, 17792,

- 17793, 17794, 17795, 17796, 17797, 17798, 17799, 17800, 19189, 19190, 21375, 21378.
- T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*] (Apiaceae); DUA JING GU DANG GUI; Shortstem Archangelica*. Used part: root. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-cold-damp impediment, cold pain in lumbus and knees, headache, toothache. Isolated compounds: 17375.
- T0583 *Archangelica decurrens* (Apiaceae); XIA YAN GU DANG GUI; Decurrent Archangelica. Used part: root. TCM Effects: To dispel wind and disperse macula. TCM Indications: White patch wind. Isolated compounds: 17077.
- T0584 *Arctium lappa* (Asteraceae); NIU BANG GEN; Great Burdock Root. Used part: root. TCM Effects: To dispel wind-heat, disperse swelling toxin. TCM Indications: Wind-heat common cold, headache, cough, wind toxin swollen face, swelling pain in throat, gingiva painful swelling, wind-damp impediment pain, concretion and conglomeration, welling abscess and boil, hemorrhoids, prolapse of rectum. Isolated compounds: 1620, 7419, 7881, 9385, 9521, 11267, 11754, 17090, 21606, 21607, 21619, 21619, 21620.
- T0585 *Arctium lappa* (Asteraceae); NIU BANG YE; Great Burdock Leaf*. Isolated compounds: 16119.
- T0586 *Arctium lappa* (Asteraceae); NIU BANG ZI; Great Burdock Fruit. Used part: fruit. TCM Effects: To course wind and dissipate heat, diffuse lung and outthrust papules, resolve toxin and disinhibit throat. TCM Indications: Wind-heat common cold, cough with profuse phlegm, measles papules, wind papules, swelling pain in throat, epidemic parotitis, erysipelas, swollen welling abscess and sore toxin. Isolated compounds: 1621, 1623, 11236, 12513, 12514, 12515, 12516, 12517, 12518, 12519, 15340.
- T0587 *Arctostaphylos pumila* (Asteraceae); AI SHENG XIONG GUO; Low Bearberry*. Isolated compounds: 5332, 5333.
- T0588 *Arctostaphylos uva-ursi* (Ericaceae); XIONG GUO; Bearberry. Isolated compounds: 1618, 14933.
- T0589 *Arcyria cinerea* (Trichiaceae); HUI JIN SE TUAN WANG JUN; Grey Arcyria*. Isolated compounds: 1625, 2476, 3690, 3691.
- T0590 *Arcyria denudata* (Trichiaceae); AN HONG TUAN WANG JUN; Carnival Candy Slime. Isolated compounds: 2476.
- T0591 *Ardisia arborescens* (Myrsinaceae); XIAO QIAO MU ZI JIN NIU; Small-tree Ardisia*. Used part: stem cortex. TCM Effects: To resolve exterior and allay fever, diffuse lung and calm panting, quicken blood and dissipate stasis. TCM Indications: Common cold with fever, asthma and abundant phlegm, menstrual disorder, postpartum persistent flow of lochia. Isolated compounds: 1110, 1645, 1646, 1647, 1648, 1649, 4680, 19983, 20444, 21541.
- T0592 *Ardisia colorata* (Myrsinaceae); YOU SE ZI JIN NIU; Colorate Ardisia*. Isolated compounds: 911, 912, 1650, 1651, 1652, 2312, 2380, 5042, 6767, 8095, 11642, 12018, 15170, 15719, 18317.
- T0593 *Ardisia cornudentata* (Myrsinaceae); XIAN CHI ZI JIN NIU; Glandtooth Ardisia*. Isolated compounds: 1628, 4061.
- T0594 *Ardisia crenata* (Myrsinaceae); ZHU SHA GEN; Coral Ardisia. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Swelling pain in throat, wind-damp-heat impediment, jaundice, dysentery, knocks and falls, fire flow, mastitis, testitis. Isolated compounds: 6767, 15719, 18546.
- T0595 *Ardisia crispa* (Myrsinaceae); BAI LIANG JIN; Crispatelaf Ardisia. Used part: root and rhizome. TCM Effects: To clear heat and disinhibit throat, dispel phlegm and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Swelling pain in throat, cough with inhibited phlegm, damp-heat jaundice, dribbling pain of urination, wind-damp impediment pain, knocks and falls, clove sore, innominate toxin swelling, snake bite. Isolated compounds: 2312.
- T0596 *Ardisia hortorum* (Myrsinaceae); TING YUAN ZI JIN NIU; Curtilage Ardisia*. Isolated compounds: 2312.
- T0597 *Ardisia humilis* (Myrsinaceae); AI ZI JIN NIU; Low Ardisia*. Isolated compounds: 6767.
- T0598 *Ardisia japonica* (Myrsinaceae); ZI JIN NIU; Japanese Ardisia. Used part: stem-leaf. TCM Effects: To suppress cough, dispel phlegm, quicken blood, disinhibit urine, resolve toxin. TCM Indications: Chronic trachitis, hepatitis, acute nephritis, chronic nephritis, tuberculosis and hemoptysis, blood ejection, dysentery, hypertension, mounting *qi*, taxation damage and strength desertion, aching sinews and bones, toxin swelling. Isolated compounds: 1643, 1644, 2169, 2312, 6767, 10431, 14221, 15184, 18411.
- T0599 *Ardisia japonica* (Myrsinaceae); ZI JIN NIU GEN; Japanese Ardisia Root. Used part: root. TCM Effects: To dispel wind-phlegm. TCM Indications: Seasonal diaphragm *qi*. Isolated compounds: 14879, 14880, 14881, 14882.
- T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*] (Myrsinaceae); HU SHE HONG; Teat-shaped Ardisia. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Wind-damp impediment pain, jaundice, dysentery, hacking of blood, blood ejection, bloody stool, menstrual block, postpartum persistent flow of lochia, knocks and falls, mammary welling abscess, clove sore. Isolated compounds: 1638, 1639, 1640, 1641, 1642, 4458.
- T0601 *Ardisia pusilla* (Myrsinaceae); CHUAN CHAN JIU JIE LONG; Tiny Ardisia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, jaundice, blood dysentery, dysmenorrhea, knocks and falls, swelling toxin of welling abscess and sore, snake bite. Isolated compounds: 1626, 1627.
- T0602 *Ardisia quinquegona* (Myrsinaceae); LUO SAN SHU; Pentagonal Ardisia. Used part: stem, leaf or root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: Swelling pain in throat, swelling of sore welling abscess and boil, knocks and falls, wind-damp impediment pain. Isolated compounds: 1628.
- T0603 *Ardisia sieboldii* DONG YA ZI JIN NIU. Isolated compounds: 1629, 1630, 1631, 1632, 1633, 1634.
- T0604 *Ardisia* spp. (Myrsinaceae). Isolated compounds: 18546.
- T0605 *Ardisia teysmanniana* (Myrsinaceae). Isolated compounds: 1635, 1636, 1637.
- T0606 *Areca catechu* (Arecaceae); BING LANG; Betenutpalm. Used part: seed. TCM Effects: To expel worms, disperse accumulation, precipitate *qi*, move water, interrupt malaria. TCM Indications: Worm

- accumulation, food stagnation, distending pain in stomach duct and abdomen, diarrhea and tenesmus, beriberi, edema, malaria. Isolated compounds: 1654, 1655, 1656, 1657, 1658, 3138, 3308, 6544, 9092, 9093, 9486, 9595, 12569, 12891, 15203, 15205, 17093, 17869, 17876, 17884, 20280, 21045, 21046.
- T0607 *Arenaria juncea* (Caryophyllaceae); LAO NIU JIN; Junc-like Sandwort. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 1565, 1566, 22823.
- T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*] (Caryophyllaceae); XUE LING ZHI; Kansu Sandwort. Used part: whole herb. TCM Effects: To clear heat and relieve cough, disinhibit damp and abate jaundice, relieve pain due to impediment. TCM Indications: Fever due to external contraction, lung heat cough, jaundice, strangury-turbidity, wind-damp impediment pain, hypertension. Isolated compounds: 1659, 1660, 1661, 1662, 9634.
- T0609 *Arenaria kansuensis* var. *ovatepetala* (Caryophyllaceae); LUAN BAN ZAO ZHUI; Ovatepetal Sandwort. Isolated compounds: 7768.
- T0610 *Argemone mexicana* (Papaveraceae); JI YING SU; Mexican Pricklepoppy. Used part: whole herb. TCM Effects: To effuse sweat and disinhibit water, clear heat and resolve toxin, relieve pain and itch. TCM Indications: Common cold without sweating, jaundice, strangury, edema, eyelid laceration, mounting *qi*, scab and *lai*, syphilis. Isolated compounds: 112, 930, 1665, 1666, 1667, 2303, 3498, 4290, 16446, 17983, 18376, 19284, 21056, 21255.
- T0611 *Argemone platyceras* (Papaveraceae); KUO GUO JI YING SU; Platyangle Pricklepoppy*. Isolated compounds: 4459.
- T0612 *Argemone* spp. (Papaveraceae). Isolated compounds: 3498.
- T0613 *Argyrea mollis* (Convolvulaceae); RUAN YIN BEI TENG; Soft *Argyrea**. Isolated compounds: 18377.
- T0614 *Argyrea nervosa* (Convolvulaceae); YE MAI YIN BEI TENG; Veined *Argyrea*. Isolated compounds: 16808.
- T0615 *Argyrea populifolia* (Convolvulaceae); YANG YE YIN BEI TENG; Poplar-leaf *Argyrea**. Isolated compounds: 7950.
- T0616 *Argyrea speciosa* (Convolvulaceae); MEI LI YIN BEI TENG; Woolly Morning Glory. Isolated compounds: 7950.
- T0617 *Arisaema amurense* (Araceae); DONG BEI TIAN NAN XING; Amur Jackintheulpit. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 3419, 3420, 19983.
- T0618 *Arisaema consanguineum* (Araceae); TIAN NAN XING; Reddish Jackintheulpit. Equivalent plant: *Pinellia pedatisecta*, *Arisaema heterophyllum*, *Arisaema amurense*. Used part: tuber. TCM Effects: To dispel wind and check tetany, transform phlegm and dissipate binds. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, hemiplegia, deadlimb, wind-phlegm dizziness, epilepsy, fright wind, tetanus, spasm, neuralgia, cough with profuse phlegm, swollen welling abscess, scrofula, poisonous snake bite, knocks and falls, carcinoma of uterine cervix. Isolated compounds: 617, 11697, 13504, 19463, 19983.
- T0619 *Arisaema curvatum* (Araceae); WAN QU TIAN NAN XING; Curvatura Jackintheulpit*. Isolated compounds: 3911.
- T0620 *Arisaema heterophyllum* (Araceae); YI YE TIAN NAN XING; Diversileaf Jackintheulpit. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 11697, 19463, 19983.
- T0621 *Aristolochia arcuata* (Aristolochiaceae); GONG XING MA DOU LING; Bow-shaped Dutchmanspipe*. Isolated compounds: 2494, 5853, 5854, 5855, 5862, 6033, 20651.
- T0622 *Aristolochia chamissonis* (Aristolochiaceae); BA XI MA DOU LING; Brazilian Dutchmanspipe*. Isolated compounds: 2, 6988, 9731, 10291, 10292.
- T0623 *Aristolochia chilensis* (Aristolochiaceae); ZHI LI MA DOU LING; *Aristolochia chilensis*. Isolated compounds: 17429.
- T0624 *Aristolochia contorta* (Aristolochiaceae); BEI MA DOU LING; Northern Dutchmanspipe. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 1713, 1715, 13374, 19983.
- T0625 *Aristolochia contorta* (Aristolochiaceae); BEI MA DOU LING GEN; Northern Dutchmanspipe Root. Used part: root. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 917, 1713, 4680, 13258, 13374, 19983.
- T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*] (Aristolochiaceae); MA DOU LING; Slender Dutchmanspipe. Equivalent plant: *Aristolochia contorta*, *Aristolochia indica*, *Aristolochia maxima*, *Aristolochia triangularis*. Used part: fruit. TCM Effects: To clear lung and downbear *qi*, relieve cough and calm asthma, clear and discharge large intestines. TCM Indications: Lung heat cough asthma, phlegm congestion and hasty *qi*, lung vacuity enduring cough, intestinal heat bleeding from hemorrhoids, swelling pain from hemorrhoids, edema. Isolated compounds: 917, 1691, 1703, 1713, 9799, 13374.
- T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*] (Aristolochiaceae); QING MU XIANG; Slender Dutchmanspipe Root. Equivalent plant: *Aristolochia contorta*. Used part: root. TCM Effects: To lower blood pressure, calm liver and relieve pain, resolve toxin and disperse swelling. TCM Indications: Hypertension, gastrospasm, stomachache, infections, chronic bone marrow infection, chronic bronchitis, infection of skin, dizziness and headache, distending pain in chest and abdomen, swollen welling abscess and clove sores, snake or insect bites. Isolated compounds: 917, 1618, 1713, 1714, 4814, 13374, 13843, 16360, 21206.
- T0628 *Aristolochia fangchi* (Aristolochiaceae); GUANG FANG JI; Fangchi. Used part: root. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit water. TCM Indications: Damp-heat generalized pain, wind-damp impediment pain, edema in lower limb, inhibited urination. Isolated compounds: 917, 1698, 1713, 13374, 19983.
- T0629 *Aristolochia heterophylla* (Aristolochiaceae); HAN FANG JI; Yellowmouth Dutchmanspipe. Used part: root. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit water. TCM Indications: Rheumatic pain in joints, damp-heat pain in limbs, edema, inhibited urination, beriberi with edema. Isolated compounds: 1713, 1729, 9799, 13374, 21206.
- T0630 *Aristolochia indica* (Aristolochiaceae); YIN DU MA DOU LING; Indian Dutchmanspipe*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 1710, 1713, 12604.

- T0631 *Aristolochia kaempferi* (Aristolochiaceae); ZHU SHA LIAN; Kaempfer Dutchmanspipe. Used part: tuber. TCM Effects: To move *qi* and relieve pain, clear heat and resolve toxin, lower blood pressure. TCM Indications: *Qi* stagnation and distention in stomach duct, stomachache, abdominal pain, pain in joints due to rheumatism, summerheat-damp diarrhea, swelling of welling abscess and boil, poisonous snake bite, hypertension. Isolated compounds: 1713, 3747, 4459.
- T0632 *Aristolochia manshuriensis* (Aristolochiaceae); GUAN MU TONG; Manchurian Dutchmanspipe. Used part: stem. TCM Effects: To clear heart fire, disinhibit urine, free menstruation and milk. TCM Indications: Mouth sore, tongue sores, vexation and reddish urine, edema, heat strangury with inhibited pain, leukorrhea, amenorrhea and scant milk, damp-heat impediment pain. Isolated compounds: 1691, 1692, 1698, 1699, 1708, 1713, 1716, 1717, 1718, 1720, 1725, 1728, 3340, 4135, 4189, 4957, 5062, 7768, 7777, 7788, 9260, 9818, 11253, 13374, 13512, 13842, 14804, 16050, 19983, 19987, 20369, 22332.
- T0633 *Aristolochia maxima* (Aristolochiaceae); DA MA DOU LING; Maxima Dutchmanspipe*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 12749.
- T0634 *Aristolochia mollissima* (Aristolochiaceae); MIAN MAO MA DOU LING; Woolly Dutchmanspipe. Used part: rhizome or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, hypertonicity of sinews and bones, pain in stomach duct and abdomen, painful wound from knocks and falls, bleeding due to external injury, mammary welling abscess, suppurative infection. Isolated compounds: 917, 1692, 1693, 1694, 1697, 1698, 1700, 1711, 1712, 1713, 1716, 1719, 1726, 1727, 1729, 2550, 3408, 3723, 4188, 6466, 7163, 7394, 7395, 11253, 11669, 13339, 13340, 13341, 13342, 13343, 13344, 13345, 13346, 13347, 13348, 13512, 13842, 13844, 14898, 19981, 19983, 20369, 22422, 22423.
- T0635 *Aristolochia moupinensis* (Aristolochiaceae); HUAI TONG; Moupin Dutchmanspipe. Used part: stem or root. TCM Effects: To clear heat and eliminate damp, dispel wind and relieve pain. TCM Indications: Abdominal pain and diarrhea, damp-heat edema, inhibited voidings of reddish urine, hematuria, wind-damp-heat impediment, swollen welling abscess and malign sore, eczema, poisonous snake bite. Isolated compounds: 1713, 7788, 13374, 19983.
- T0636 *Aristolochia pubescens* (Aristolochiaceae); DUAN ROU MAO MA DOU LING; Shortfluff Dutchmanspipe*. Isolated compounds: 1721, 1722, 5596, 5597.
- T0637 *Aristolochia ridicula* (Aristolochiaceae). Isolated compounds: 18844, 18845, 18846, 21162, 21163, 21164, 21165, 21166, 21167, 21853.
- T0638 *Aristolochia siphon* (Aristolochiaceae); OU ZHOU MA DOU LING; Dutchmanspipe. Isolated compounds: 13374.
- T0639 *Aristolochia* sp. (Aristolochiaceae). Isolated compounds: 1709, 1730.
- T0640 *Aristolochia triangularis* (Aristolochiaceae); SAN JIAO MA DOU LING; Triangular Dutchmanspipe*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 4306, 8085, 12170.
- T0641 *Aristolochia tuberosa* (Aristolochiaceae); KUAI JING MA DOU LING; Tuberos Dutchmanspipe. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, rectify *qi* and relieve pain. TCM Indications: Damp-heat dysentery, diarrhea, pain in stomach duct and abdomen, swelling pain in throat, tuberculosis, poisonous snake bite, swollen welling abscess. Isolated compounds: 1693, 1713, 14370, 22083.
- T0642 *Aristolochia tubiflora* (Aristolochiaceae); GUAN HUA MA DOU LING; Tubeflower Dutchmanspipe. Used part: root. TCM Effects: To clear heat and resolve toxin, move *qi* and relieve pain. TCM Indications: Swelling of sores and boils, poisonous snake bite, pain in stomach duct, enteritis and dysentery, diarrhea, pain in joints due to rheumatism, dysmenorrhea, knocks and falls. Isolated compounds: 1724.
- T0643 *Aristolochia versicolor* (Aristolochiaceae); BIAN SE MA DOU LING; Versicolorous Dutchmanspipe. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Enteritis and diarrhea, bacillary dysentery, swelling pain in throat, parotitis, scrofula, mammary welling abscess, eczema. Isolated compounds: 22422, 22423, 22424, 22425.
Armillaria matsutake = *Tricholoma matsutake*
- T0644 *Armillaria mellea* (Tricholomataceae); MI HUAN JUN; Armillary Mushroom*. Used part: sporocarp. TCM Effects: To calm liver and extinguish wind, dispel wind and free network vessels, strengthen sinews and bones. TCM Indications: Dizzy head, headache, sleepless, numbness in limbs, pain in lumbus and legs, coronary heart disease, hypertension, vascular headache, dizziness syndrome, epilepsy. Isolated compounds: 1739, 1740, 1741.
- T0645 *Armillariella mellea* (Tricholomataceae); ZHEN MO; Mellea Armillaria Sporocarp. Used part: sporocarp. TCM Effects: To calm liver and extinguish wind, dispel wind and quicken network vessels, strengthen sinews and bones. TCM Indications: Dizziness, headache, insomnia, numbness in limbs, pain in lumbus and legs, epilepsy. Isolated compounds: 1039, 7250, 7334.
- T0646 *Armillariella tabescens* (Tricholomataceae); LIANG JUN; Armillariella Tabescens. Used part: mycelium. TCM Effects: To eliminate inflammation. TCM Indications: Cholecystitis, hepatitis, appendicitis, otitis media. Isolated compounds: 1742, 1743.
- T0647 *Armoracia lapathifolia* (Brassicaceae); LA GEN; Horseradish. Used part: root. TCM Effects: To disperse food and harmonize center, disinhibit gallbladder, disinhibit urine. TCM Indications: Indigestion, inhibited urination, cholecystitis, arthritis. Isolated compounds: 8591, 8598, 8760, 9614, 19935.
- T0648 *Arnebia euchroma* (Boraginaceae); XIN ZANG JIA ZI CAO; Sinkiang-Tibet Arnebia. Used part: root. TCM Effects: See *Lithospermum erythrorhizon*. TCM Indications: See *Lithospermum erythrorhizon*. Isolated compounds: 244, 309, 514, 909, 1233, 1234, 1259, 1744, 1746, 1747, 5214, 5258, 6178, 6302, 6303, 6495, 10266, 11300, 14120, 15850, 15851, 15852, 15853, 15854, 17747, 19819, 19822, 19823, 20032, 20036, 20968.
- T0649 *Arnebia guttata* (Boraginaceae); JIA ZI CAO; Common Arnebia. Used part: root. TCM Effects: See *Lithospermum erythrorhizon*. TCM Indications: See *Lithospermum erythrorhizon*. Isolated compounds: 309, 514, 5214, 6303, 10266, 19819, 20968.
- T0650 *Arnebia nobilis* (Boraginaceae); GAO GUI JIA ZI CAO; Noble

- Arnebia*. Isolated compounds: 909, 910, 1745.
Arnica japonica = *Ligularia japonica*
- T0651 *Arnica montana* (Asteraceae); SHAN JIN CHE; Mountain Tobacco. Isolated compounds: 1748.
- T0652 *Arnica* spp. (Asteraceae). Isolated compounds: 10792.
- T0653 *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*] (Annonaceae); YING ZHAO; Sixpetal Tailgrape. Used part: root. TCM Effects: To interrupt malaria. TCM Indications: Malaria. Isolated compounds: 1775, 1776, 1777, 1778, 12917.
- T0654 *Artabotrys maingayi* (Annonaceae); MAN GE YING ZHAO; Mainge Tailgrape*. Isolated compounds: 15797.
- T0655 *Artabotrys odoratissimus* (Annonaceae); JI XIANG YING ZHAO; Extreme-fragrant Tailgrape*. Isolated compounds: 15797.
- T0656 *Artabotrys suaveolens* (Annonaceae); XIANG YING ZHAO; Fragrant Tailgrape*. Isolated compounds: 11344.
- T0657 *Artabotrys uncinatus* (Annonaceae); YOU GOU YING ZHAO; Uncinate Tailgrape*. Isolated compounds: 473, 1348, 1771, 1772, 1773, 1774, 1780, 1857, 1961, 3746, 5076, 7815, 11344, 11593, 12917, 14535, 14608, 14626, 14827, 15763, 15797, 18655, 19200, 20243, 20317, 20322, 22214.
- T0658 *Artabotrys venustus* (Annonaceae); XIU LI YING ZHAO; Venus Tailgrape*. Isolated compounds: 15797.
- T0659 *Artemisia absinthium* (Asteraceae); ZHONG YA KU HAO; Common Wormwood. Used part: leaf and stem with flower. TCM Effects: To clear heat and dry damp, expel roundworm, fortify stomach. TCM Indications: Swelling pain in joints, eczema titillation, sore toxin of sore and boil, ascariasis, inappetence. Isolated compounds: 37, 1779, 3464, 12920, 19777, 19783, 21350.
- T0660 *Artemisia annua* (Asteraceae); HUANG HUA HAO; Sweet Wormwood. Equivalent plant: *Artemisia apiacea*. Used part: whole herb. TCM Effects: To clear heat, resolve summerheat, eliminate steam, interrupt malaria. TCM Indications: Summerheat-heat, summerheat-damp, damp warmth, *yin* vacuity fever, malaria, jaundice. Isolated compounds: 336, 872, 1334, 1341, 1345, 1653, 1782, 1783, 1784, 1785, 1786, 1786, 1792, 1794, 1795, 1797, 1799, 1800, 1801, 1935, 2044, 2273, 2295, 2560, 2570, 2850, 2851, 2852, 2853, 3045, 3048, 3195, 3234, 3235, 3241, 3242, 3300, 3300, 3602, 3624, 3674, 3689, 3741, 3743, 3745, 4029, 4140, 4354, 4878, 5587, 5606, 5755, 5787, 6146, 6151, 6236, 6741, 6742, 6891, 7055, 7069, 7108, 7109, 7504, 7583, 7588, 7730, 7735, 7751, 7951, 9726, 10017, 10091, 10108, 10109, 10261, 10262, 10750, 11226, 11259, 11260, 11261, 11428, 11642, 11648, 12020, 12843, 12849, 12850, 13137, 13284, 13982, 14147, 15146, 15665, 15705, 15709, 15710, 15758, 16297, 16298, 16452, 16453, 16725, 16727, 16801, 16851, 17254, 17376, 17377, 17719, 18060, 18288, 18308, 18317, 18376, 18679, 18682, 19087, 19187, 19314, 19540, 19542, 19545, 19983, 20369, 20657, 20989, 20990, 20995, 20999, 21096, 21097, 21349, 21598.
- T0661 *Artemisia anomala* (Asteraceae); LIU JI NU; Diverse Worm-wood. Used part: Whole herb with flower. TCM Effects: To break stasis and free menstruation, stanch bleeding and disperse swelling, disperse food and transform accumulation. TCM Indications: Menstrual block, dysmenorrhea, postpartum stasis stagnation abdominal pain, persistent flow of lochia, concretion and conglomeration, knocks and falls, incised wound and bleeding, wind-damp impediment pain, hemochezia, hematuria, swelling toxin of welling abscess and sore, scalds, food accumulation abdominal pain, diarrhea and dysentery. Isolated compounds: 1126, 1345, 1781, 1787, 1788, 19211, 19635, 19901.
- T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (Asteraceae); QING HAO; Celery Wormwood. Used part: whole herb. TCM Effects: See *Artemisia annua*. TCM Indications: See *Artemisia annua*. Isolated compounds: 1792, 3227, 3228, 3229, 3230, 3241, 3242, 4029, 4648, 5378, 9486, 10229, 10230, 10317, 10539, 14205, 19777, 19783, 20556, 21350.
- T0663 *Artemisia arbuscula* (Asteraceae); BEI MEI AI HAO; Low Sagebrush. Isolated compounds: 1617.
- T0664 *Artemisia argyi* (Asteraceae); AI YE; Argy Wormwood Leaf. Equivalent plant: *Artemisia mongolica*, *Artemisia princeps*, *Artemisia lavandulaefolia*, *Artemisia rubripes*, *Artemisia vulgaris*. Used part: leaf. TCM Effects: To dissipate cold and relieve pain, warm menstruation and stanch bleeding. TCM Indications: Cold pain in abdomen, menstrual disorder due to cold, infertility due to uterus cold, blood ejection, spontaneous external bleeding, flooding and spotting, fetal spotting, itchy skin. Isolated compounds: 1110, 1111, 2850, 3235, 3242, 4471, 4946, 6162, 7759, 9390, 9500, 9564, 10751, 11083, 11084, 11085, 11603, 12448, 13718, 13822, 13900, 14354, 15002, 15003, 15515, 16288, 16289, 17126, 17453, 17938, 18304, 18843, 20369, 20992, 20995, 21047, 21350, 21709, 21856, 21946, 22510, 22922.
- T0665 *Artemisia ashurbajevii* (Asteraceae); A SHI HAO; Ashurbajev Wormwood*. Isolated compounds: 8982.
- T0666 *Artemisia assoana* (Asteraceae). Isolated compounds: 20559.
- T0667 *Artemisia brevifolia* (Asteraceae); DUAN YE JUAN HAO; Shortleaf Wormwood*. Isolated compounds: 22778.
- T0668 *Artemisia campestris* (Asteraceae); TIAN YE HAO; Campestral Mugwort. Isolated compounds: 9604, 19174.
- T0669 *Artemisia cana* (Asteraceae); QING AI; Graywhite Wormwood*. Isolated compounds: 18843.
- T0670 *Artemisia cana* ssp. *viscidula* (Asteraceae); NIAN HAO; Viscid Wormwood*. Isolated compounds: 1796, 3591, 11615, 22533.
- T0671 *Artemisia canariensis* (Asteraceae); JIA NA LI HAO; Canary Island Wormwood*. Isolated compounds: 217, 5891, 17375.
- T0672 *Artemisia capillaris* (Asteraceae); YIN CHEN HAO; Capillary Wormwood. Equivalent plant: *Artemisia scoparia*. Used part: aerial parts. TCM Effects: To clear heat and disinhibit damp, abate jaundice. TCM Indications: Hepatitis, jaundice, infective cholecystitis, hyperlipemia, inhibited urination, damp sore, itchy skin. Isolated compounds: 336, 1653, 1807, 1808, 2306, 2843, 2850, 2887, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3130, 3138, 3139, 3237, 3242, 3741, 3745, 4232, 4233, 4234, 4550, 4914, 4915, 5043, 5049, 6741, 7472, 7473, 7521, 7523, 7577, 7588, 8011, 8289, 8313, 9669, 10482, 10887, 11235, 11648, 11659, 12843, 12891, 13870, 14212, 14213, 15146, 15203, 15354, 15687, 15724, 16066, 17089, 17123, 17376, 17377, 18317, 18682, 19540, 19542, 19983, 20280, 20988, 20995, 21350, 21355, 22336.
- T0673 *Artemisia caruthii* (Asteraceae); KA SI HAO; Caruth Wormwood*. Isolated compounds: 13605.

Artemisia cina = *Seriphidium cinum*

- T0674 *Artemisia compacta* (Asteraceae); MI HAO; Compact Wormwood*. Isolated compounds: 19314.
- T0675 *Artemisia douglasiana* (Asteraceae); DAO SHI HAO; Douglas Wormwood*. Isolated compounds: 1789.
- T0676 *Artemisia dracunculus* (Asteraceae); XIA YE QING HAO; Tarragon. Used part: whole herb or root. TCM Effects: To dispel wind and dissipate cold, diffuse lung and suppress cough. TCM Indications: Wind-cold common cold, cough and asthma. Isolated compounds: 13883, 15445, 15446, 15724.
- Artemisia finita* = *Seriphidium finitum*
- T0677 *Artemisia glabella* (Asteraceae); WU MAO HAO; Glabrous Wormwood*. Isolated compounds: 1675.
- T0678 *Artemisia japonica* (Asteraceae); MU HAO; Japanese Wormwood. Used part: whole herb. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Summer common cold, tuberculosis tidal fever, hemoptysis, child *gan* fever, spontaneous external bleeding, hematochezia, flooding and spotting, vaginal discharge, icterohepatitis, erysipelas, poisonous snake bite. Isolated compounds: 1793, 2570, 2853, 3241, 3242, 4029, 7735, 21350.
- T0679 *Artemisia klotzschiana* (Asteraceae); KE SHI HAO; Klotzsch Wormwood*. Isolated compounds: 7521.
- T0680 *Artemisia lactiflora* (Asteraceae); YA JIAO AI; Ghostplant Wormwood. Used part: whole herb. TCM Effects: To quicken blood and dissipate stasis, rectify *qi* and transform damp. TCM Indications: Dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, chronic hepatitis, liver spleen enlargement, food accumulation abdominal distention, cold-damp diarrhea, mounting *qi*, beriberi, knocks and falls, burns and scalds. Isolated compounds: 9452, 12437, 12438.
- T0681 *Artemisia lavandulaefolia* (Asteraceae); YE AI HAO; Lavenderleaf Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 17453.
- T0682 *Artemisia ludoviciana* (Asteraceae); LU DE WEI HAO; Western Sage. Isolated compounds: 13072, 20730.
- T0683 *Artemisia maritima* (Asteraceae); BIN HAO; Santonica. Isolated compounds: 1798, 7481, 11689, 19313.
- T0684 *Artemisia mexicana* var. *angustifolia* (Asteraceae); MO XI GE HAO; Mexico Wormwood*. Isolated compounds: 13072, 22103.
- T0685 *Artemisia mongolica* (Asteraceae); MENG GU HAO; Mongolian Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 14173, 14357, 17090, 17453, 21943.
- T0686 *Artemisia monosperma* (Asteraceae); DAN ZI HAO; Monoseed Wormwood*. Isolated compounds: 4913, 5801, 6023, 21703.
- T0687 *Artemisia myriantha* (Asteraceae); YI KUA; Manyflower Wormwood. Used part: whole herb. TCM Effects: To clean heat, dispel summerheat, cool blood and stanch bleeding. TCM Indications: Summer common cold, summerheat stroke with fever, steaming bone tidal fever, blood ejection, spontaneous external bleeding. Isolated compounds: 124, 1675, 1803, 1804, 1805, 1806, 4749, 4941, 7066, 9037, 9796, 20677.
- T0688 *Artemisia porrecta* (Asteraceae); SHEN HAO; Porrect Wormwood*. Isolated compounds: 1186.
- T0689 *Artemisia princeps* (Asteraceae); KUI HAO; First Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 14386, 17453.
- T0690 *Artemisia roxburgiana* (Asteraceae); HUI BAO HAO; Roxburgh Wormwood. Isolated compounds: 1110, 1111, 1112, 6575, 7951, 14944, 15935.
- T0691 *Artemisia rubripes* (Asteraceae); HONG ZU HAO; Redfoot Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 2170, 7582, 22038.
- T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*] (Asteraceae); XIN JIANG YI ZHI HAO; Rock Wormwood. Used part: whole herb. TCM Effects: To dispel wind and resolve exterior, disperse accumulation and fortify stomach, quicken blood and dissipate stasis. TCM Indications: Wind-cold common cold, food accumulation and *qi* stagnation, distending pain in stomach duct and abdomen, stasis swelling from knocks and falls, wind papules, snake bite. Isolated compounds: 549, 11687, 19068.
- T0693 *Artemisia sativum* (Asteraceae); YUN XIANG YE HAO; Rueleaf Wormwood*. Isolated compounds: 3048.
- T0694 *Artemisia schrenkiana* (Asteraceae); XUE LING HAO; Schrenk Wormwood*. Isolated compounds: 19314.
- T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (Asteraceae); HUANG HAO; Virgate Wormwood. Used part: aerial parts. TCM Effects: See *Artemisia capillaris*. TCM Indications: See *Artemisia capillaris*. Isolated compounds: 764, 1520, 1792, 2056, 2787, 3117, 3120, 3121, 3122, 3237, 3243, 3300, 3551, 3589, 3688, 3745, 4390, 4550, 5065, 6776, 7521, 8011, 8313, 9749, 11421, 11702, 14146, 15146, 16285, 16587, 17376, 17377, 18393, 18682, 19087, 19187, 19540, 19542, 20137, 21350.
- T0696 *Artemisia sieversiana* (Asteraceae); BAI HAO; Sievers Wormwood. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Wind-cold-damp impediment, jaundice, heat dysentery, scab and *lai*. Isolated compounds: 37, 1779, 19881, 19882.
- T0697 *Artemisia* sp. (Asteraceae). Isolated compounds: 2044, 3076, 3635, 5236, 5414, 15279, 19308, 19313, 19545.
- T0698 *Artemisia* spp. (compositae). Isolated compounds: 17719, 22195.
- T0699 *Artemisia sublessingiana* (Asteraceae); YA LIE XING HAO; Sublessing Wormwood*. Isolated compounds: 19314.
- T0700 *Artemisia sylvatica* (Asteraceae); LIN DI HAO; Woodland Wormwood. Isolated compounds: 1790, 1791, 1802, 4746, 7195, 7196, 7197, 14097, 15002.
- T0701 *Artemisia taurica* (Asteraceae); NIU HAO; Taurine Wormwood*. Isolated compounds: 20730.
- T0702 *Artemisia tridentata* (Asteraceae); SAN CHI HAO; Big Sagebrush. Isolated compounds: 1617, 18843.
- T0703 *Artemisia tridentata* ssp. *vaseyana* (Asteraceae); WA SI YA NA SAN CHI HAO; Vaseyana Big Sagebrush*. Isolated compounds: 11615.
- T0704 *Artemisia tripartita* (Asteraceae); SAN LIE HAO; Tripartite Wormwood*. Isolated compounds: 18843.
- T0705 *Artemisia vestita* (Asteraceae); MAO LIAN HAO; Hairy Wormwood. Used part: whole herb. TCM Effects: To clear heat, resolve toxin, eliminate steam. TCM Indications: Scourge epidemic with fever,

- steaming bone taxation fever. Isolated compounds: 1110, 4680, 7556, 7951, 9455, 10017, 16758, 20713, 20731, 21095, 22923.
- T0706 *Artemisia vulgaris* (Asteraceae); BEI AI; Mugwort. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 2047, 11261, 11742, 14013, 15688, 16331, 20730, 21350, 21596, 22620.
- T0707 *Arthraxon hispidus* (Poaceae); JIN CAO; Hispid Arthraxon. Used part: whole herb. TCM Effects: To relieve cough and asthma, kill worms. TCM Indications: Enduring cough and asthma, hepatitis, pharyngolaryngitis, nasitis, lymphroditis, mastitis, sores scab and lichen. Isolated compounds: 552, 553, 1371.
- T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*] (Polypodiaceae); FENG WEI PA SHAN HU; Mary Arthromeris. Used part: rhizome. TCM Effects: To dispel wind and quicken network vessels, disperse accumulation and free stool, downbear fire, relieve pain, disinhibit urine. TCM Indications: Wind-damp pain in sinew and bone, sciatica, fracture, food accumulation abdominal distention, constipation, red eyes, toothache, headache, inhibited urination, strangury-turbidity. Isolated compounds: 15068.
Arthroplytum scoparium = *Hammada scoparia*
- T0709 *Artocarpus altilis* (Moraceae); FEI HOU MIAN BAO GUO; Fleshy Artocarpus*. Isolated compounds: 4517.
- T0710 *Artocarpus champeden* (Moraceae); YIN NI MIAN BAO GUO; Cempedak. Isolated compounds: 1815, 1816, 1817, 1818.
- T0711 *Artocarpus dadah* (Moraceae); DA DA HE MIAN BAO GUO; Dadah Artocarpus*. Isolated compounds: 1387, 1412, 1417, 1421, 1442, 1443, 1444, 1765, 4337, 5679, 14962, 15714, 18643, 20326.
- T0712 *Artocarpus fretessi* (Moraceae). Isolated compounds: 1819, 1820, 1821, 14995, 15038.
- T0713 *Artocarpus heterophyllus* (Moraceae); BO LUO MI; Diversileaf Artocarpus. Used part: fruit. TCM Effects: To engender liquid and eliminate vexation, resolve liquor and arouse spleen. Isolated compounds: 1345, 1821, 4495, 15714.
- T0714 *Artocarpus incisa* [Syn. *Artocarpus communis*] (Moraceae); MIAN BAO GUO; Common Artocarpus*. Isolated compounds: 1810, 1811, 1812, 1813, 1814, 4517, 8330.
- T0715 *Artocarpus integra* (Moraceae); QUAN YUAN GUI MU; Integerleaf Artocarpus. Isolated compounds: 13918, 14183, 17841.
- T0716 *Artocarpus integrifolia* (Moraceae); QUAN YUAN YE BO LUO MI; Integrifolious Artocarpus*. Isolated compounds: 14971.
- T0717 *Artocarpus lakoocha* (Moraceae); LA KOU SHA MIAN BAO GUO; Lakoocha Artocarpus*. Isolated compounds: 4337, 12453, 12454.
- T0718 *Artocarpus nobilis* (Moraceae); GAO GUI BO LUO MI; Noble Artocarpus*. Isolated compounds: 8330, 21119, 21737, 21745, 21749.
Arum cucullatum = *Alocasia cucullata*
- T0719 *Arum italicum* (Araceae); YI DA LI JIASNG NAN XING; Italian Arum. Isolated compounds: 12525.
- T0720 *Arum* sp. (Araceae). Isolated compounds: 19459.
- T0721 *Arundina chinensis* (Orchidaceae); ZHU YE LAN; Chinese Arundina. Used part: whole herb and rooty stem. TCM Effects: To clear heat and resolve toxin, dispel wind and disinhibit damp, dissipate stasis and relieve pain. TCM Indications: Jaundice, heat strangury, edema, beriberi, mounting *qi*, wind-damp impediment pain, poisonous snake bite, swelling toxin of sore and welling abscess, knocks and falls. Isolated compounds: 3040, 20369.
- T0722 *Arundo donax* (Poaceae); LU ZHU GEN; Giantreed Rhizome. Used part: rhizome. TCM Effects: To clear heat and drain fire, engender liquid and eliminate vexation, disinhibit urine. TCM Indications: Febrile diseases with vexation and thirst, vacuity taxation with steaming bone, blood ejection, heat strangury, inhibited urination, wind-fire toothache. Isolated compounds: 1111, 1112, 2472, 2725, 2726, 3040, 6418, 6419, 6736, 8971, 8972, 8973, 14038, 20369.
- T0723 *Asarum canadense* (Aristolochiaceae); JIA NA DA XI XIN; Canadian Snakeroot. Isolated compounds: 1713, 3455, 3456.
- T0724 *Asarum caulescens* (Aristolochiaceae); SHUANG YE XI XIN; Caulescent Wildginger. Equivalent plant: *Asarum fukienense*. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve pain, warm lung and transform rheum. TCM Indications: Wind-cold common cold, headache, toothache, wind-damp impediment pain, phlegm-rheum cough asthma. Isolated compounds: 1469, 1832, 2550, 6745, 7495, 9862, 19684.
- T0725 *Asarum europaeum* (Aristolochiaceae); OU XI XIN; Asarabacca. Isolated compounds: 1835, 1840, 14531, 19912.
- T0726 *Asarum forbesii* (Aristolochiaceae); DU HENG; Forbes Wildginger. Used part: rhizome and root or whole herb. TCM Effects: To dispel wind and dissipate cold, disperse phlegm and move water, quicken blood and relieve pain, resolve toxin. TCM Indications: Wind-cold common cold, phlegm-rheum cough asthma, edema, wind-cold-damp impediment, knocks and falls, headache, toothache, stomachache, sand *qi* abdominal pain, scrofula, toxin swelling, snake bite. Isolated compounds: 1832, 1836, 1837, 1838, 1839, 6745, 7521, 12115, 12891, 19121.
- T0727 *Asarum fukienense* (Aristolochiaceae); FU JIAN XI XIN; Fukien Wildginger. Used part: whole herb. TCM Effects: See *Asarum caulescens*. TCM Indications: See *Asarum caulescens*. Isolated compounds: 17116.
- T0728 *Asarum heterotropoides* var. *mandshuricum* (Aristolochiaceae); LIAO XI XIN; Manchurian Wildginger. Used part: whole herb. TCM Effects: See *Asarum sieboldii*. TCM Indications: See *Asarum sieboldii*. Isolated compounds: 336, 1713, 1832, 1833, 3045, 3689, 4276, 4550, 6294, 6745, 7385, 7483, 7523, 12115, 12843, 15146, 15204, 16830, 17376, 19099, 19121, 19777, 20990, 20995, 20998.
- T0729 *Asarum maximum* (Aristolochiaceae); DA HUA XI XIN; Largeflower Wildginger. Used part: whole herb with root. TCM Effects: To dispel wind and dissipate cold, relieve cough and dispel phlegm, quicken blood and resolve toxin, relieve pain. TCM Indications: Wind-cold common cold, headache, cough and asthma, wind-damp pain, knocks and falls. Isolated compounds: 1832.
- T0730 *Asarum sagittarioides* (Aristolochiaceae); SHAN CI GU; Arrowhead-like Wildginger. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, resolve toxin and relieve pain. TCM Indications: Common cold, stomachache, toothache, knocks and falls, snake bite. Isolated compounds: 3911, 7702.
- T0731 *Asarum sieboldii* (Aristolochiaceae); XI XIN; Siebold Wildginger. Equivalent plant: *Asarum heterotropoides* var. *mandshuricum*, *Asarum sieboldii* var. *seoulensis*. Used part: whole herb. TCM Effects: To

- dispel wind and dissipate cold, free orifices and relieve pain, warm lung and transform rheum. TCM Indications: Wind-cold common cold, influenza, headache, toothache, local anesthesia, nasal congestion, deep-source nasal congestion, wind-damp impediment pain, phlegm-rheum cough asthma. Isolated compounds: 336, 1713, 1832, 1833, 1834, 3045, 3196, 3231, 3689, 4276, 4550, 6294, 6745, 7385, 7521, 7523, 8340, 11626, 12843, 14810, 15146, 15204, 15252, 16830, 17376, 19099, 19121, 19777, 20992, 20995, 20998, 21919, 21935.
- T0732 *Asarum sieboldii* var. *seoulensis* (Aristolochiaceae); HAN CHENG XI XIN; Seoul Siebold Wildginger. Used part: whole herb. TCM Effects: See *Asarum sieboldii*. TCM Indications: See *Asarum sieboldii*. Isolated compounds: 1713, 19777.
- T0733 *Asarum* spp. (Aristolochiaceae). Isolated compounds: 1834.
- T0734 *Asarum taitoense* (Aristolochiaceae); TAI DONG XI XIN; Taiton Wildginger. Isolated compounds: 1841.
- T0735 *Asclepias albicans* (Asclepiadaceae); BIAN BAI MA LI JIN; White Milkweed. Isolated compounds: 22301.
- T0736 *Asclepias curassavica* (Asclepiadaceae); LIAN SHENG GUI ZI HUA; Bloodflower Milkweed. Used part: herb. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, lung heat cough, heat strangury, amenorrhea, flooding and spotting, vaginal discharge, swelling toxin of welling abscess and sore, eczema, intractable lichen, bleeding due to external injury. Isolated compounds: 1844, 2937, 2996, 4077, 4092, 22301.
- T0737 *Asclepias eriocarpa* (Asclepiadaceae); MAO GUO MA LI JIN; Hairyfruit Milkweed*. Isolated compounds: 7272, 12421, 12422.
- T0738 *Asclepias incarnata* (Asclepiadaceae); ROU HONG MA LI JIN; Incarnate Milkweed*. Isolated compounds: 448, 449, 450, 451, 452, 453, 4796, 4797, 10248, 10249, 10327, 10328, 10329, 10330, 10331, 10332, 10333, 10965, 10966, 11497, 11498, 11499, 11500, 11501, 11502, 12880, 12881, 12882, 12883, 12884, 12885, 13813, 13814, 13815, 13816, 13817, 13818, 15531, 15532, 15533, 18937.
- T0739 *Asclepias speciosa* (Asclepiadaceae); MEI LI MA LI JIN; Beautiful Milkweed*. Isolated compounds: 1887.
- T0740 *Asclepias syriaca* (Asclepiadaceae); XU LI YA MA LI JIN; Milkweed. Isolated compounds: 1887, 15527, 22305.
- T0741 *Asclepias tuberosa* (Asclepiadaceae); KUAI JING MA LI JIN; Tuberosus Milkweed. Isolated compounds: 7951.
- T0742 *Ascochyta sonchi*. Isolated compounds: 1846.
- T0743 *Asimina parviflora* (Annonaceae); XIAO HUA PAO PAO; Smallflower Pawpaw. Isolated compounds: 16676, 16677.
- T0744 *Asimina triloba* (Annonaceae); PAO PAO SHU; Pawpaw. Isolated compounds: 1858, 1859, 16677.
- T0745 *Asparagus adscendens* (Liliaceae); SHANG JU TIAN MEN DONG; Ascendent Asparagus*. Isolated compounds: 1868, 1869, 1878, 1879, 1880, 1881, 1883, 1884.
- T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (Liliaceae); TIAN MEN DONG; Cochinchinese Asparagus. Used part: tuberoid. TCM Effects: To enrich *yin* and moisten dryness, clear lung and downbear fire. TCM Indications: *Yin* vacuity fever, cough with blood ejection, lung wilting, pulmonary welling abscess, swelling pain in throat, diabetes mellitus, constipation. Isolated compounds: 1863, 1864, 1865, 1866, 1885, 1905, 1906, 1907, 1908, 3982, 6090, 9546, 10396, 13845, 14023, 14045, 18056, 18711, 19390.
- T0747 *Asparagus curillus* (Liliaceae); WAN QU TIAN MEN DONG; curillus Asparagus*. Isolated compounds: 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1882, 9086, 9087, 19391.
- T0748 *Asparagus dumosus* (Liliaceae); GUAN MU TIAN MEN DONG; Shrubby Asparagus*. Isolated compounds: 6636.
- T0749 *Asparagus filicinus* (Liliaceae); TU BAI BU; Fernlike Asparagus. Used part: tuberoid. TCM Effects: To moisten lung and relieve cough, kill worms and relieve itch. TCM Indications: *Yin* vacuity lung dryness, tuberculosis with cough, cough with inhibited phlegm, phlegm containing blood, scab and lichen with itching. Isolated compounds: 1860, 1861, 1862.
- T0750 *Asparagus gobicus* (Liliaceae); GE BI TIAN MEN; Desertliving Asparagus*. Used part: whole herb. TCM Effects: To dispel wind, kill worms, relieve itch, disperse welling abscess and dissipate binds. TCM Indications: Neurodermatitis, psoriasis, body lichen, swollen welling abscess of sore and boil. Isolated compounds: 1860, 8631, 8632, 8656, 8903, 8904, 9546, 11201, 14044, 14052, 19755, 19997, 22821, 22828.
- T0751 *Asparagus officinalis* (Liliaceae); SHI DIAO BAI; Curinary Asparagus. Used part: tender stem. TCM Effects: To clear heat and disinhibit damp, quicken blood and dissipate binds. TCM Indications: Hepatitis, psoriasis, hyperlipemia, hyperplasia of mammary glands. Isolated compounds: 1396, 1422, 1423, 1830, 1831, 1860, 1861, 7768, 14698, 14931.
- T0752 *Asparagus officinalis* (Liliaceae); XIAO BAI BU; Officinal Asparagus. Used part: tuberoid. TCM Effects: To warm lung, suppress cough, kill worms. TCM Indications: Wind-cold common cold, pertussis, tuberculosis, senile cough and asthma, scab and lichen. Isolated compounds: 1673, 1862, 1866, 1867, 3142, 3501, 4140, 8785.
- T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*] (Liliaceae); WEN ZHU; Setose Asparagus. Used part: tuberoid or whole herb. TCM Effects: To cool blood and resolve toxin, disinhibit urine and free strangury. TCM Indications: *Yin* vacuity lung dryness, cough, hemoptysis, dribbling urination. Isolated compounds: 9253, 22880.
- T0754 *Asparagus* sp. (Liliaceae). Isolated compounds: 3981, 22336.
- T0755 *Aspergillus fumigatus* (Aspergillaceae); YAN QU MEI. Isolated compounds: 5047.
- T0756 *Aspergillus terreus* (Aspergillaceae). Isolated compounds: 18297.
- T0757 *Asperula odorata* (Rubiaceae); XIANG CHE YE CAO; Sweet Woodruff. Isolated compounds: 899, 901, 1892, 13041, 18222.
- T0758 *Asphodelus* spp. (Liliaceae). Isolated compounds: 3615.
- T0759 *Aspidistra elatior* (Liliaceae); ZHI ZHU BAO DAN; Common Aspidistra. Used part: rhizome. TCM Effects: To quicken blood and relieve pain, clear lung and relieve cough, disinhibit urine and free strangury. TCM Indications: Knocks and falls, wind-damp impediment pain, lumbago, amenorrhea and dysmenorrhea, lung heat cough, sand strangury, inhibited urination. Isolated compounds: 1898, 1899, 1902.
- T0760 *Aspidosperma album* (Apocynaceae). Isolated compounds: 1900.
- T0761 *Aspidosperma campus-belus* (Apocynaceae); BAI JIAN MU; Campus-belu Aspidosperma. Isolated compounds: 16085.
- T0762 *Aspidosperma cuspa* (Apocynaceae); JIAN BAI JIAN MU; Cuspate.

- Isolated compounds: 1901.
- T0763 *Aspidosperma dasycarpon* (Apocynaceae); CU MAO GUO BAI JIAN MU; Hirsutefruit White Quebracho*. Isolated compounds: 1901, 20578.
- T0764 *Aspidosperma formasanum* (Apocynaceae). Isolated compounds: 1900.
- T0765 *Aspidosperma marcgravianum* (Apocynaceae). Isolated compounds: 1900, 11718.
- T0766 *Aspidosperma meglacarpum* (Apocynaceae). Isolated compounds: 1900.
- T0767 *Aspidosperma multiflorum* (Apocynaceae); DUO HUA BAI JIAN MU; Multiflower White Quebracho*. Isolated compounds: 12268.
- T0768 *Aspidosperma neblinae* (Apocynaceae). Isolated compounds: 1900.
- T0769 *Aspidosperma nigricans* (Apocynaceae); HEI BAI JIAN MU; Black White Quebracho*. Isolated compounds: 16085.
- T0770 *Aspidosperma olivaceum* (Apocynaceae); HE LU BAI JIAN MU; Olive-green White Quebracho*. Isolated compounds: 16085.
- T0771 *Aspidosperma populifolium* (Apocynaceae); SI YANG SHU YE BAI JIAN MU; Poplar-leaf-like White Quebracho*. Isolated compounds: 12268, 22369.
- T0772 *Aspidosperma quebracho-blanco* (Apocynaceae); PU TONG BAI JIAN MU; Common White Quebracho. Isolated compounds: 1903, 1904.
- T0773 *Aspidosperma refractum* (Apocynaceae). Isolated compounds: 22369.
- T0774 *Aspidosperma rhombeosignatum* (Apocynaceae); LENG ZHUANG BAI JIAN MU; Rhombic-sign White Quebracho*. Isolated compounds: 1904.
- T0775 *Aspidosperma subincanum* (Apocynaceae); WEI BAI BAI JIAN MU; Microwhite White Quebracho*. Isolated compounds: 6759.
- T0776 *Asplenium prolongatum* (Aspleniaceae); CHANG SHENG TIE JIAO JUE; Prolongated Spleenwort. Used part: whole herb or leaf. TCM Effects: To clear heat and remove damp, transform stasis and stanch bleeding. TCM Indications: Cough and abundant phlegm, wind-damp impediment pain, enteritis and dysentery, urinary tract infection, mastitis, blood ejection, bleeding due to external injury, knocks and falls, burns and scalds. Isolated compounds: 12085.
- T0777 *Aster ageratoides* var. *ovatus* (Asteraceae); LUAN YE SAN ZHE MAI ZI WAN; Ovate-leaf Threevein Aster*. Isolated compounds: 728, 729, 730, 731, 732, 733, 734, 735.
- T0778 *Aster albescens* (Asteraceae); XIAO SHE ZI WAN; Smallligulatecorolla Aster. Isolated compounds: 7951.
- T0779 *Aster cultivars* (Asteraceae); ZAI PEI ZI WAN; Cultivated Aster*. Isolated compounds: 3594.
- T0780 *Aster ptarmicoides* (Asteraceae); TUN CAO ZI WAN; Upland White Aster. Isolated compounds: 23000.
- T0781 *Aster tataricus* (Asteraceae); ZI WAN; Tatarion Aster. Used part: root and rhizome. TCM Effects: To moisten lung and precipitate *qi*, relieve cough and dispel phlegm. TCM Indications: Cough and asthma with abundant phlegm, consumption cough and hemoptysis. Isolated compounds: 1186, 1922, 1923, 1927, 1929, 1930, 1931, 1932, 1933, 6918, 7951, 12429, 12430, 18317, 19830, 19831, 19832, 19833.
- T0782 *Asterina pectinifera* HAI YAN. Isolated compounds: 3587, 11622.
- T0783 *Asteriscus vogelii* (Compositae). Isolated compounds: 1924, 1925, 1926, 14492, 14645, 14646, 16346, 16347, 16348, 16427.
- T0784 *Astilbe chinensis* (Saxifragaceae); LUO XIN FU; Chinese Astilbe. Used part: whole herb. TCM Effects: To dispel wind, clear heat, suppress cough. TCM Indications: Wind-heat common cold, headache and generalized pain, cough. Isolated compounds: 2312, 9717, 10607.
- T0785 *Astilbe macroflora* (Saxifragaceae); DA HUA LUO XIN FU; Largeflower Astilbe. Isolated compounds: 2312.
- T0786 *Astragalus atropubescens* (Fabaceae); ROU MAO HUANG QI; Darkhairy Milkvetch*. Isolated compounds: 14885.
- T0787 *Astragalus bisulcatus* (Fabaceae); ER GOU HUANG QI; Bisulcate Milkvetch*. Isolated compounds: 19691.
- T0788 *Astragalus canadensis* var. *brevidens* (Fabaceae); DUAN CHI HUANG QI; Shorttooth Milkvetch*. Isolated compounds: 3634.
- T0789 *Astragalus canadensis* var. *mortonii* (Fabaceae); JIA NA DA HUANG QI; Canadian Milkvetch*. Isolated compounds: 3634.
- T0790 *Astragalus caprinus* (Fabaceae); SHAN YANG HUANG QI. Isolated compounds: 12101, 12102, 12103, 12104, 12105.
- T0791 *Astragalus chrysopterus* (Fabaceae); JIN YI HUANG QI; Golden-wing Milkvetch*. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1934.
- T0792 *Astragalus cibarius* (Fabaceae); SHI YONG HUANG QI; Edible Milkvetch*. Isolated compounds: 3634, 4078.
- T0793 *Astragalus complanatus* (Fabaceae); BIAN JING HUANG QI; Flatstem Milkvetch. Used part: seed. TCM Effects: To supplement kidney and secure essence, boost liver and brighten eyes. TCM Indications: Liver kidney vacuity, lumbago and limp leg, emission and premature ejaculation, frequent urination, dizziness and tinnitus, clouded flowery vision. Isolated compounds: 1944, 3949, 11503, 15188, 15371, 15941, 18684, 18707, 18708, 18737, 18738.
- T0794 *Astragalus ernestii* (Fabaceae); SUO GUO HUANG QI; Ernest Milkvetch*. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1851, 1852.
- T0795 *Astragalus falcatus* (Fabaceae); LIAN XING HUANG QI; Falcate Milkvetch*. Isolated compounds: 3634, 4078, 18859.
- T0796 *Astragalus flexuosus* (Fabaceae); WAN YAN HUANG QI; Flexuous Milkvetch*. Isolated compounds: 3634, 4078.
- T0797 *Astragalus kahiricus* (Fabaceae); KAI LUO HUANG QI; Cairo Milkvetch*. Isolated compounds: 12107, 12108, 12109, 12110.
- T0798 *Astragalus membranaceus* (Fabaceae); HUANG QI; Membranous Milkvetch. Equivalent plant: *Astragalus mongholicus*, *Astragalus chrysopterus*, *Astragalus ernestii*. Used part: root. TCM Effects: To boost *qi* and secure exterior, disinherit urine and draw toxin, expel pus, close sores and engender flesh. TCM Indications: Common cold, influenza, chronic wound ulcer, chronic glomerulonephritis, diabetes mellitus due to internal heat, *qi* vacuity edema, chronic gastritis, *qi* vacuity and hypodynamia, reduced food intake and sloppy stool, center *qi* fall, chronic diarrhea, prolapse of rectum, hemochezia, flooding and spotting, spontaneous sweating due to exterior vacuity. Isolated compounds: 326, 617, 618, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1945, 1946, 2318, 3004, 3063, 3589, 4476, 6291, 7852, 7853, 7883, 8761, 9071, 9486, 10031, 11242, 11243, 12020, 12331, 13638, 18317, 19983, 20446, 22252.

- T0799 *Astragalus miser* var. *oblongifolia* (Fabaceae); JU YUAN YE HUANG QI; Oblongleaf Milkvetch*. Isolated compounds: 14885.
- T0800 *Astragalus mongholicus* (Fabaceae); MENG GU HUANG QI; Mongolian Milkvetch. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1936, 1937, 1938, 1939, 3004, 6291, 7883, 10251, 10413, 10520, 11544, 11545, 11546, 12020, 12520, 12891, 12893, 13638, 14533, 15022, 19983, 20446, 22824.
- T0801 *Astragalus oleifolius* (Fabaceae); YOU YE HUANG QI; Oily-leaf Milkvetch*. Isolated compounds: 1937, 1939, 4478, 16067, 16068.
- T0802 *Astragalus pterocarpus* (Fabaceae); CHI GUO HUANG QI; Wingfruit Milkvetch*. Isolated compounds: 14885.
- T0803 *Astragalus shikokianus* (Fabaceae); SI GUO HUANG QI; Siko Milkvetch*. Isolated compounds: 1950, 12075, 18859.
- T0804 *Astragalus sieversianus* (Fabaceae); MIAN MAO HUANG QI; Sieversia Milkvetch. Isolated compounds: 1948, 1949.
- T0805 *Astragalus sinicus* (Fabaceae); ZI YUN YING; Chinese Milkvetch. Used part: herb. TCM Effects: To clear heat and resolve toxin, dispel wind and brighten eyes, cool blood and stanch bleeding. TCM Indications: Pain in throat, wind-phlegm cough, red eyes with gall, clove sore, zoster, scab and lichen, hemorrhoids, gum hemorrhage, bleeding due to external injury, menstrual disorder, vaginal discharge, thrombocytopenic purpura. Isolated compounds: 617, 1935, 3063, 21662.
- T0806 *Astragalus sinicus* (Fabaceae); ZI YUN YING ZI; Chinese Milkvetch Seed. Used part: seed. TCM Effects: To dispel wind and brighten eyes. TCM Indications: Red eyes with gall. Isolated compounds: 9620, 9804.
- T0807 *Astragalus* sp. (Fabaceae). Isolated compounds: 12050, 19676.
- T0808 *Astragalus tetraplerus* (Fabaceae); SI CHI HUANG QI; Fourwing Milkvetch*. Isolated compounds: 14885.
- T0809 *Astragalus trojanus* (Fabaceae); TE LUO YI HUANG QI; Trojan Milkvetch*. Isolated compounds: 1947, 22046, 22047, 22048.
- T0810 *Astrantia major* (Rutaceae); DA XING QIN; Astrantia. Isolated compounds: 12420, 16050.
- T0811 *Astrotrichilia voamatata* (Meliaceae). Isolated compounds: 22598, 22599, 22600, 22601.
- T0812 *Asystasia intrusa* (Acanthaceae); CHA RU SHI WAN CUO; Ya-Yaa (Thai name). Isolated compounds: 580, 815, 1952, 2276, 3306, 8613, 18918, 23011.
- T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (Rutaceae); DONG FENG JU GEN; Boxleaf Atalantia Root. Used part: root. TCM Effects: To dispel stasis and relieve pain, normalize *qi* and transform phlegm. TCM Indications: Painful swelling from knocks and falls, wind-damp pain, fracture, mounting *qi*, common cold, cough, malaria, stomachache. Isolated compounds: 1953, 1957, 1958, 1959, 2010, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 3777, 3778, 8320, 8825, 11758, 11759, 14149, 14443, 19302, 19790, 19983, 20369, 21687.
- T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (Rutaceae); DONG FENG JU YE; Boxleaf Atalantia Leaf. Used part: root and leaf. TCM Effects: To dispel wind and resolve exterior, relieve cough and transform phlegm, move *qi* and quicken blood, relieve pain. TCM Indications: Common cold with cough, malaria, stomachache, mounting *qi*, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 1954, 5147, 14174.
- T0815 *Atalantia monophylla* (Rutaceae); DAN YE DONG FENG JU; Monoleaf Atalantia*. Isolated compounds: 1955, 18272.
- T0816 *Atalantia racemosa* (Rutaceae); ZONG ZHUANG DONG FENG JU YE; Racemose Atalantia Leaf*. Isolated compounds: 1956.
- T0817 *Atherosperma moschatum* (Atherospermataceae); SHE XIANG MANG ZI. Isolated compounds: 1961.
- T0818 *Athyrium filix-femina* (Athyriaceae); TI GAI JUE; Painted Fern. Isolated compounds: 1897.
- T0819 *Atractylodes chinensis* (Asteraceae); BEI CANG ZHU; Chinese Atractylodes. Used part: rhizome. TCM Effects: See *Atractylodes lancea*. TCM Indications: See *Atractylodes lancea*. Isolated compounds: 327, 1966, 1969, 1970, 1971, 2452, 6746, 7495, 7514, 9542, 10493, 11763, 11764, 12847, 19687.
- T0820 *Atractylodes gummifera* (Asteraceae); OU CANG ZHU; Gummy Atractylodes*. Isolated compounds: 1972.
- T0821 *Atractylodes japonica* (Asteraceae); GUAN CANG ZHU; Japanese Atractylodes. Used part: rhizome. TCM Effects: See *Atractylodes lancea*. TCM Indications: See *Atractylodes lancea*. Isolated compounds: 1965, 1966, 1969, 5534, 5902, 6833, 7495, 7514, 9542, 9806, 9907, 10432, 17087, 19606, 21739.
- T0822 *Atractylodes koreana* (Asteraceae); CHAO XIAN CANG ZHU; Korean Atractylodes. Isolated compounds: 1966, 1969.
- T0823 *Atractylodes lancea* (Asteraceae); CANG ZHU; Swordlike Atractylodes. Equivalent plant: *Atractylodes chinensis*, *Atractylodes japonica*. Used part: rhizome. TCM Effects: To dispel damp and strengthen spleen, dispel wind, brighten eyes. TCM Indications: Spleen-stomach damp turbidity, fatigue hypodynamia, glomus in chest, abdominal distention, inappetence, vomiting and diarrhea, phlegm-rheum, damp edema, exterior damp, heavy head and generalized pain, damp impediment, aching pain in limbs, crippling wilt, night blindness. Isolated compounds: 125, 618, 1966, 1969, 1971, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 3242, 3466, 4818, 4842, 5902, 6741, 6746, 6833, 7495, 7513, 7514, 8011, 9041, 9042, 9044, 9542, 9669, 9807, 10953, 11634, 13284, 14316, 14782, 19544, 19606, 19687, 20569, 21739, 21740, 22060, 22252.
- T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*] (Asteraceae); BAI ZHU; Largehead Atractylodes. Used part: root. TCM Effects: To boost *qi* and fortify spleen, dry damp and disinhibit water, check sweating, quiet fetus. TCM Indications: Spleen *qi* vacuity, fatigue hypodynamia, reduced food intake with abdominal distention, sloppy stool, water-rheum collecting internally, inhibited urination, edema, phlegm-rheum dizziness, damp impediment, *qi* vacuity, spontaneous sweating, stirring fetus in pregnancy. Isolated compounds: 1965, 1967, 1968, 1971, 7396, 7495, 11966, 14189, 14190, 14191, 14192.
- T0825 *Atropa belladonna* (Solanaceae); DIAN QIE; Common Atropa. Used part: whole herb. TCM Effects: To resolve spasm and relieve pain, inhibit secretion. TCM Indications: Gastric ulcer, duodenal ulcer, colic of gastrointestinal tract, cholecystalgia, renal colic, vomiting nausea, night sweating, drooling. Isolated compounds: 1526, 2001, 2218, 4417,

- 10870, 10872, 19542, 22195.
- T0826 *Atropa* spp. (Solanaceae). Isolated compounds: 10870.
Aucklandia lappa = *Saussurea lappa*
- T0827 *Aucuba chinensis* ssp. *omeiensis* (Cornaceae); TIAN JIAO BAN; Chinese Aucuba. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling toxin of welling abscess and flat abscess, scratch, knocks and falls, burns and scalds, hemorrhoids, frostbite. Isolated compounds: 2003, 2004.
- T0828 *Aucuba japonica* (Cornaceae); DONG YING SHAN HU MU; Japanese Aucuba. Isolated compounds: 2004.
- T0829 *Aulacomnium androgynum* (Aulacomniaceae); ZHOU SHUO XIAN. Isolated compounds: 17147.
- T0830 *Auricularia auricula* (Auriculariaceae); MU ER; Jew's Ear. Equivalent plant: *Auricularia delicata*. Used part: sporocarp. TCM Effects: To supplement *qi* and nourish blood, moisten lung and relieve cough, stanch bleeding, lower blood pressure, anticancer. TCM Indications: *Qi* vacuity and blood depletion, lung vacuity enduring cough, hemoptysis, spontaneous external bleeding, blood dysentery, bleeding from hemorrhoids, flooding and spotting, hypertension, eyeground hemorrhage, carcinoma of uterine cervix, carcinoma of vagina, painful wound from knocks and falls. Isolated compounds: 3039, 7250, 20155.
- T0831 *Auricularia delicata* (Auriculariaceae); ZHOU MU ER; Delicate Jew's Ear*. Used part: sporocarp. TCM Effects: See *Auricularia auricula*. TCM Indications: See *Auricularia auricula*. Isolated compounds: 16218.
- T0832 *Austrotaxus spicata* (Taxaceae); AO DA LI YA HONG DOU SHAN; Australia Yew. Isolated compounds: 127, 150, 365, 366, 1062, 2024, 2025, 2437, 3958, 4702, 4703, 4718, 4719, 4720, 4773, 4849, 5087, 5322, 6140, 9959, 14136, 15523, 15524, 20157, 20159, 20161, 21532, 22030, 22031.
Autonoë madeirensis = *Scilla maderensis*
- T0833 *Avena sativa* (Poaceae); YAN MAI; Oat. Isolated compounds: 2029, 2030, 2031, 2032, 2033, 15855, 20146, 20147.
- T0834 *Averrhoa carambola* (Oxalidaceae); YANG TAO; Carambola; Country Gooseberry. Used part: fruit. TCM Effects: To clear heat, engender liquid, disinhibit urine, resolve toxin. TCM Indications: Wind-heat cough, sore pharynx, vexation and thirst, stone strangury, oral putrescence, toothache, malaria with splenomegaly, resolve liquor toxin. Isolated compounds: 17264.
- T0835 *Axinyssa* sp. Isolated compounds: 2046, 4880, 11360.
- T0836 *Azadiractica indica* (Meliaceae); YIN DU LIAN; Neem Tree. Isolated compounds: 364, 2051, 12847, 13662, 13663, 15655, 22961.
Azalea ovata = *Rhododendron ovatum*
- T0837 *Azalea* sp. (Ericaceae). Isolated compounds: 491.
- T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*] (Azollaceae); MAN JIANG HONG; Imbricate Mosquito Fern. Used part: leaf. TCM Effects: To resolve exterior and outthrust papules, dispel wind and overcome damp, resolve toxin. TCM Indications: Common cold with cough, non-eruption of measles, wind-damp pain, inhibited urination, edema, urticaria, itchy of skin, sores, cinnabar toxin, burns and scalds. Isolated compounds: 13148.
- T0839 *Azorella compacta* (Apiaceae); MI XIAO YING QIN. Isolated compounds: 261, 262, 10531, 15062.
- T0840 *Azorella cryptantha* (Apiaceae); YIN HUA YAO XIAO YING QIN. Isolated compounds: 2062, 5545.
- T0841 *Azorella yareta* (Apiaceae). Isolated compounds: 2061, 9809, 9810, 15059, 15062.

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- T0842 *Babylonia japonica* (Buccinidae); RI BEN DONG FENG LUO. Isolated compounds: 15461.
- T0843 *Babylonia lutosa* (Buccinidae); NI DONG FENG LUO. Used part: meat. TCM Effects: To stanch bleeding, moisten dryness. TCM Indications: Nosebleed(epistaxis), dry stool. Isolated compounds: 20496.
- T0844 *Baccharis dracunculifolia* (Asteraceae); XIAO LONG YE KUO BAO JU; Dracunculi-leaf Pluchea*. Isolated compounds: 85, 5415, 6580, 6581, 6582, 6583, 6584, 6585, 6586, 6587, 6588, 6589, 6590, 6591, 6592, 6593, 6594, 6595, 6596, 6597, 17410, 17415, 20996.
- T0845 *Baccharis flabellata* (Asteraceae); SHAN XING KUO BAO JU; Sector Pluchea. Isolated compounds: 5497, 7176, 7199.
- T0846 *Baccharis gaudichaudiana* (Asteraceae). Isolated compounds: 2080.
- T0847 *Baccharis indica* [Syn. *Pluchea indica*] (Asteraceae); KUO BAO JU; Indian Pluchea. Used part: stem-leaf or root. TCM Effects: To warm stomach and eliminate accumulation, soften hardness and dissipate binds, dispel wind and eliminate damp. TCM Indications: Child food accumulation, goiter and carcinoma of neck, phlegm node, wind-damp bone pain. Isolated compounds: 17085.
- T0848 *Baccharis latifolia* (Asteraceae); KUAN YE KUO BAO JU; Broadleaf Pluchea*. Isolated compounds: 17809.
- T0849 *Baccharis ramosissima* (Asteraceae); DUO ZHI KUO BAO JU; Ramose Pluchea*. Isolated compounds: 14119.
- T0850 *Baccharis sarothroides* (Asteraceae). Isolated compounds: 21711.
- T0851 *Baccharis* spp. (Asteraceae). Isolated compounds: 3551, 16041, 17399, 22768.
- T0852 *Bacopa monniera* (Scrophulariaceae); JIA MA CHI XIAN; Coastal Waterhyssop. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and disperse swelling. TCM Indications: Dysentery, red eyes with gall, swelling pain from hemorrhoids, elephantiasis. Isolated compounds: 1476, 1574, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 8604, 11908, 13137, 13580, 14917, 14918, 14919, 15975, 17507, 17508, 20471.
- T0853 *Baeckea frutescens* (Myrtaceae); GANG SONG; Shrubby Baeckea. Used part: leaf, flower and fruit. TCM Effects: To transform stasis and relieve pain, clear heat and resolve toxin, disinhibit urine and free strangury, kill worms and relieve itch. TCM Indications: Stasis swelling from knocks and falls, cirrhosis, heat strangury, heat diarrhea, inhibited urination, pudendal itch, beriberi, eczema, itchy skin, scab and lichen, burns and scalds, snake or insect bites. Isolated compounds: 2097, 2339, 2340, 2341, 2369, 2550, 2555, 4550, 6482, 7752, 8105, 8106, 8618, 8619, 12843, 20995.
- T0854 *Baileya multiradiata* (Asteraceae); BAI LAI SHI JU; Bailai's Chrysanthemum. Isolated compounds: 2109, 7739, 7740, 15071,

- 15073, 15074, 15991, 17557, 18523.
- T0855 *Baileya pauciradiata* (Asteraceae); SHAO BIAN HUA BAI LAI SHI JU; Fewradiate Bailai's Chrysanthemum*. Isolated compounds: 15991, 16733.
- T0856 *Baileya pleniradiata* (Asteraceae); DUO BIAN HUA BAI LAI SHI JU; Manyradiate Bailai's Chrysanthemum*. Isolated compounds: 2109, 16733, 17558.
- T0857 *Balanophora abbreviata* (Balanophoraceae); DUAN SHE GU; Abbreviate Balanophora*. Isolated compounds: 10628.
- T0858 *Balanophora indica* [Syn. *Langodorfia indica*] (Balanophoraceae); YIN DU SHE GU; Indian Balanophora. Isolated compounds: 1122, 13099.
- T0859 *Balanophora involucrata* (Balanophoraceae); TONG QIAO SHE GU; Involucrate Balanophora. Used part: whole herb. TCM Effects: To moisten lung and relieve cough, move *qi* and fortify stomach, clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Lung heat cough, pain in stomach duct and abdomen, jaundice, swelling pain from hemorrhoids, knocks and falls, hemoptysis, menstrual disorder, flooding and spotting, bleeding due to external injury, dizziness, emission. Isolated compounds: 14249, 22262.
- T0860 *Balanophora japonica* (Balanophoraceae); GE XUN; Japanese Balanophora. Used part: herb. TCM Effects: To clear heat and resolve toxin, arouse liquor. TCM Indications: Wind-heat macular eruption, lung heat cough, blood ejection, flooding, hemorrhoids. Isolated compounds: 1113, 2125, 2126, 2127, 2128, 2129, 2895, 2897, 2898, 2899, 2902, 2903, 2904, 2905, 2908, 2929, 4167, 5406, 5407, 5408, 5410, 5516, 8612, 11481, 21551.
- T0861 *Baliospermum montanum* (Euphorbiaceae); BAN ZI MU; Montane Baliospermum. Isolated compounds: 2130, 14945.
- T0862 *Ballota limbata* (Lamiaceae); Bui; Phut kandu (local names). Isolated compounds: 2131, 2132.
- T0863 *Ballota nigra* (Lamiaceae); HEI BA LUO CAO; Black Bui*. Isolated compounds: 2133.
- T0864 *Balsamorhiza macrophylla* (Asteraceae); Cut-leaf Balsamroot. Isolated compounds: 5141, 5143, 14406.
- T0865 *Balsamorhiza sagittata* (Asteraceae); Arrowleaf Balsamroot. Isolated compounds: 5141, 5143, 14406.
- T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*] (Acanthaceae); MA LAN GEN; Common Baphicacanthus Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Warm toxin macular eruption, ardent fever with headache, massive head scourge, erysipelas, epidemic parotitis, viral hepatitis, influenza, pneumonia, swelling of sores, zoster. Isolated compounds: 580, 4419, 4420, 6230, 6231, 11024, 11463, 13098, 13250, 13251, 22059.
- T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*] (Acanthaceae); MA LAN YE; Common Baphicacanthus Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Warm heat disease, ardent fever with headache, macular eruption, lung heat cough, damp-heat diarrhea dysentery, jaundice, scarlatina, measles papules, swelling pain in throat, mouth sore, epidemic parotitis, lymphadenitis, liver welling abscess, intestinal welling abscess, blood ejection, spontaneous external bleeding, gum hemorrhage, flooding and spotting, sore and boil, snake or insect bites. Isolated compounds: 18287.
- T0868 *Baptisia australis* (Fabaceae); AO DA LI YA YAN DIAN. Isolated compounds: 7883.
- T0869 *Baptisia* spp. (Fabaceae). Isolated compounds: 3004, 7883, 16209.
- T0870 *Barbarea vulgaris* (Brassicaceae); OU ZHOU SHAN JIE; Upland Cress. Isolated compounds: 8599.
- T0871 *Barleria lupulina* (Acanthaceae); HUA YE JIA DU JUAN. Used part: whole herb. TCM Effects: To free channels and network vessels, joint sinews and bones, resolve toxin and disperse swelling. TCM Indications: Painful swelling from knocks and falls, fracture, bleeding due to external injury, swollen welling abscess and sore toxin, poisonous snake bites. Isolated compounds: 330, 509, 510, 511, 11129, 13108, 15134, 19795, 19796.
- T0872 *Barleria strigosa* (Acanthaceae); CAO MAO JIA DU JUAN. Isolated compounds: 4154, 10620.
- T0873 *Barleria fistulosa* (Acanthaceae). Isolated compounds: 22608.
- T0874 *Bartramia pomiformis* (Bartramiaceae); LI SHUO ZHU XIAN. Isolated compounds: 1261.
- T0875 *Basella rubra* (Basellaceae); LUO KUI HUA; Red Vinespinach flower. Used part: flower. TCM Effects: To cool blood and resolve toxin. TCM Indications: Cracked nipple. Isolated compounds: 2157, 2158, 2159, 2160, 2323, 9588, 14910, 20165.
- T0876 *Baseonema acuminatum* (Asclepiadaceae); Mamiaho (in Malagasy language, Madagascar). Isolated compounds: 2286, 2296, 5518, 5547, 8107, 12048, 13965, 14101, 15152, 18359, 22616.
- T0877 *Bauhinia championii* (Fabaceae); LONG XU TENG; Champion Bauhinia. Used part: root or stem. TCM Effects: To dispel wind and eliminate damp, move *qi* and quicken blood. TCM Indications: Wind-damp impediment pain, knocks and falls, pain in stomach duct, hemiplegia, *gan* accumulation, dysentery. Isolated compounds: 9509, 16871, 19929, 21188.
- T0878 *Bauhinia malabarica* (Fabaceae); MA LA BA YANG TI JIA; Malaba Bauhinia*. Isolated compounds: 5095, 17846, 17847, 18515.
- T0879 *Bauhinia purpurea* (Fabaceae); ZI YANG TI JIA; Purple Bauhinia. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Sore and boil, burns and scalds, stasis swelling from knocks and falls. Isolated compounds: 18281.
- T0880 *Bauhinia racemosa* (Fabaceae); ZONG ZHUANG HUA YANG TI JIA; Racemose Bauhinia*. Isolated compounds: 18515.
- T0881 *Bauhinia variegata* (Fabaceae); CAI BAN YANG TI JIA; Variegate Bauhinia*. Used part: root. TCM Effects: To fortify spleen and eliminate damp, stanch bleeding. TCM Indications: Indigestion, acute gastroenteritis, hepatitis, cough and hemoptysis, pain in joints, knocks and falls. Isolated compounds: 5591, 6263.
- Baussingaultia cordifolia* = *Anredera cordifolia*
Baussingaultia gracilis f. *pseudobaselloides* = *Anredera cordifolia*
Baussingaultia gracilis var. *pseudobaselloides* = *Anredera cordifolia*
- T0882 *Bazzania decrescens* (Fabaceae). Isolated compounds: 10395.
- T0883 *Bazzania japonica* (Lepidoziaceae); RI BEN BIAN TAI; Japanese Flagelliform Liverwort*. Isolated compounds: 1702, 1705, 6977, 6978, 6979.

- T0884 *Bazzania madagassa* (Lepidoziaceae). Isolated compounds: 559, 5290.
- T0885 *Bazzania trilobata* (Lepidoziaceae); BIAN TAI; Flagelliform Liverwort*. Isolated compounds: 5797, 21879, 21880, 21881, 21882, 21883, 21884, 21885, 21886.
- T0886 *Beaumontia grandiflora* (Apocynaceae); QING MING HUA; Easter Heraldtrumpet. Used part: root and leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood, relieve pain. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls, swelling pain from fracture. Isolated compounds: 400, 2187, 2190, 14718, 16031, 22629.
- T0887 *Beauveria bassiana* BAI JIANG JUN. Isolated compounds: 2847, 2855, 5784, 9870, 9872, 9873, 9874, 9875, 9876, 20932.
- T0888 *Beesia calthaeifolia* (Ranunculaceae); TIE PO LUO; Marshmarigold-leaved Beesia. Used part: rhizome or whole herb. TCM Effects: To clear heat, resolve toxin, dispel wind. TCM Indications: Wind-heat common cold, wind-damp bone pain, throat pain, red eyes with gall, sore and boil, poisonous snake bites. Isolated compounds: 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 4465, 9455.
- T0889 *Begonia glabra* (Begoniaceae); GUANG JIE QIU HAI TANG; Glabrate Begonia*. Isolated compounds: 16498, 20978.
- T0890 *Begonia limprichtii* (Begoniaceae); JI YE QIU HAI TANG; Limpricht Begonia. Used part: whole herb with rhizome. TCM Effects: To cool blood and stanch bleeding, dispel stasis and relieve pain. TCM Indications: Flooding and spotting with vaginal discharge, blood ejection, dysentery, stasis pain from knocks and falls, poisonous snake bite. Isolated compounds: 20378.
- T0891 *Begonia nantoensis* (Begoniaceae); NAN TOU QIU HAI TANG; Nantou Begonia*. Isolated compounds: 27, 2006, 2210, 3309, 4317, 4320, 4323, 5573, 5574, 5789, 11029, 14473, 15249.
- T0892 *Belamcanda chinensis* (Iridaceae); SHE GAN; Blackberrylily. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse phlegm, disinhibit throat. TCM Indications: Heat toxin and phlegm-fire stasis, swelling pain in throat, cough and asthma. Isolated compounds: 439, 2215, 2216, 2217, 5647, 9826, 11141, 11142, 11154, 11164, 11164, 11466, 13481, 16691, 18682, 19797, 19798, 19799, 20900, 20901, 21129, 21130, 22344.
- T0893 *Bellis perennis* (Asteraceae); CHU JU; English Daisy. Isolated compounds: 22526.
- T0894 *Benincasa hispida* (Cucurbitaceae); DONG GUA PI; Chinese Waxgourd Peel. Used part: exocarp. TCM Effects: To clear heat and disinhibit water, disperse swelling. TCM Indications: Edema, inhibited urination [=dysuria], diarrhea, swelling of sores. Isolated compounds: 11548, 15528, 19901.
- T0895 *Benincasa hispida* (Cucurbitaceae); DONG GUA ZI; Chinese Waxgourd Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, disperse welling abscess and expel pus, disinhibit damp. TCM Indications: Phlegm-heat cough, pulmonary welling abscess, intestinal welling abscess, white turbidity, vaginal discharge, beriberi, edema, strangury syndrome. Isolated compounds: 3774, 19901, 21662, 22246.
- T0896 *Berberis actinacantha* (Berberidaceae); CU CI XIAO BO; Actino-spiny Barberry. Isolated compounds: 2304.
- T0897 *Berberis amurensis* (Berberidaceae); XIAO BO; Amur Barberry. Used part: root and branchlet. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Enteritis, dysentery, chronic cholecystitis, acute hepatitis, chronic hepatitis, bacillary dysentery, infection of upper respiratory tract, urinary tract infection, leukopenic complications of carcinoma, innominate toxin swelling, erysipelas, eczema, red eyes, mouth sore. Isolated compounds: 2301, 3934, 11851, 13374, 16439, 16441, 16555.
- T0898 *Berberis baluchistanica* (Berberidaceae); BI LU ZHI XIAO BO; Baluchistan Barberry. Isolated compounds: 4100, 4101, 16537.
- T0899 *Berberis buxifolia* (Berberidaceae); HUANG YANG XIAO BO; Box-leaved Barberry. Isolated compounds: 2938.
- T0900 *Berberis calliobotrys* (Berberidaceae); MEI SUI XIAO BO; Beautiful-raceme Barberry. Isolated compounds: 16537.
- T0901 *Berberis darwinii* (Berberidaceae); DA ER WEN XIAO BO; Darwin Barberry. Isolated compounds: 2304.
- T0902 *Berberis diaphana* (Berberidaceae); XIAN HUANG XIAO BO; Reddrop Barberry. Used part: endoderm root bark and branch bark. TCM Effects: To clear damp heat, resolve heat toxin. TCM Indications: Damp-heat dysentery, jaundice, vaginal discharge, heat toxin swollen welling abscess. Isolated compounds: 2300, 2303, 11851, 16555.
- T0903 *Berberis dubia* (Berberidaceae); ZHI YI XIAO BO; Dubious Barberry. Isolated compounds: 2300, 2303, 11851, 16555.
- T0904 *Berberis floribunda* (Berberidaceae); DUO HUA XIAO BO; Free-flowering Barberry. Isolated compounds: 6835, 16439.
- T0905 *Berberis integerrima* (Berberidaceae); QUAN YUAN YE XIAO BO; Integrifolious Barberry. Isolated compounds: 16439.
- T0906 *Berberis julianae* (Berberidaceae); TU HUANG LIAN; Wintergreen Barberry. Used part: root or whole herb. TCM Effects: To clear heat and disinhibit damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, heat strangury, red eyes with gall, gum swelling, swelling pain in throat, epidemic parotitis, erysipelas, eczema, heat toxin sores. Isolated compounds: 2303, 4122, 11851, 16439, 16537.
- T0907 *Berberis kawakamii* (Berberidaceae); TAI WAN XIAO BO; Taiwan Barberry. Used part: root or leaf. TCM Effects: To clear heat and dry damp, drain fire. TCM Indications: Damp-heat diarrhea, dysentery, mouth sore, toxin swelling of sores. Isolated compounds: 13374.
- T0908 *Berberis lambertii* (Berberidaceae); LAN BO TE XIAO BO; Lambert Barberry. Isolated compounds: 16439.
- T0909 *Berberis laurina* (Berberidaceae); YUE GUI XIAO BO; Laurel-like Barberry. Isolated compounds: 2302, 14756.
- T0910 *Berberis oblonga* (Berberidaceae); CHANG YUAN YE XIAO BO; Oblong-leaved Barberry. Isolated compounds: 16439.
- T0911 *Berberis orthobotrys* (Berberidaceae); ZHI ZONG ZHUANG HUA XU XIAO BO; Straight-raceme Barberry. Isolated compounds: 16439, 16537.
- T0912 *Berberis poiretii* (Berberidaceae); XI YE XIAO BO; Poiret Barberry. Used part: root, stem and bark. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Bacillary dysentery, damp-heat dysentery, diarrhea, jaundice, infection of upper respiratory tract, sore pharynx, urinary tract infection, cholecystitis, leukopenic complications of carcinoma, eczema, sores, mouth sore,

- red eyes. Isolated compounds: 11851, 16555.
- T0913 *Berberis potaninii* SHAO CHI XIAO BO; Potanin Barberry. Isolated compounds: 2300, 2303, 11851, 16555.
- T0914 *Berberis* sp. (Berberidaceae). Isolated compounds: 3142, 7821.
- T0915 *Berberis* spp. (Berberidaceae). Isolated compounds: 16439, 16555.
- T0916 *Berberis thunbergii* (Berberidaceae); RI BEN XIAO BO; Japanese Barberry. Used part: root, root cortex, stem-leaf. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, stomach heat pain, red eyes with gall, mouth sore, swelling pain in throat, acute eczema, scalds. Isolated compounds: 2300, 2303, 3934, 11736, 11851, 13374, 16439, 16555.
- T0917 *Berberis tschonoskiana* (Berberidaceae); HUANG XIAO BO; Yellow Barberry. Isolated compounds: 15881, 15885, 16439.
- T0918 *Berberis valdiviana* (Berberidaceae); WA SHI XIAO BO; Valdiv Barberry. Isolated compounds: 2304, 4353, 16537.
- T0919 *Berberis vulgaris* (Berberidaceae); OU ZHOU XIAO BO; European Barberry. Isolated compounds: 2300, 2304, 16439.
- T0920 *Berberis wilsonae* (Berberidaceae); JIN HUA XIAO BO; Wilson Barberry. Used part: root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Bacillary dysentery, damp-heat diarrhea dysentery, infection of upper respiratory tract, lung heat cough, urinary tract infection, cholecystitis, leukopenic complications of carcinoma, jaundice, red eyes with gall, infant mouth sore, heat toxin swollen welling abscess. Isolated compounds: 2303.
- T0921 *Berberis zycium* (Berberidaceae); GOU QI XIAO BO; Medlar Barberry*. Isolated compounds: 7327, 18207.
- T0922 *Berchemia polyphylla* var. *leioclada* (Rhamnaceae); GUANG ZHI GOU ER CHA; Smoothbranched Supplejack. Used part: stem vine or root. TCM Effects: To resolve toxin and disperse swelling, stanch bleeding and settle pain, dispel wind and eliminate damp. TCM Indications: Welling abscess and flat abscess with clove sores, cough and hemoptysis, bleeding of digestive tract, knocks and falls, scalds, wind-damp bone pain, wind-fire toothache. Isolated compounds: 19087.
- T0923 *Bergenia crassifolia* (Saxifragaceae); HOU YE YAN BAI CAI; Thicketleaf Bergenia. Used part: whole herb. TCM Effects: To supplement vacuity and stanch bleeding, relieve cough and settle asthma. TCM Indications: Dizziness, cough, asthma, blood ejection, hemoptysis. Isolated compounds: 1618, 2312.
- T0924 *Bergenia purpurascens* (Saxifragaceae); YAN BAI CAI; Purple Bergenia. Used part: whole herb. TCM Effects: To enrich and supplement, check vomiting and stanch bleeding. TCM Indications: Vacuity with dizziness, taxation damage cough, blood ejection, hemoptysis, strangury-turbidity, vaginal discharge, toxin swelling. Isolated compounds: 2312, 17884.
- T0925 *Berlandiera pumila* AI SHENG BO LAN DI. Isolated compounds: 18198.
- T0926 *Berneuxia tibetica* (Diapensiaceae); YAN JIN CAI; Tibet Berneuxine. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve cough and calm asthma, quicken blood and free network vessels. TCM Indications: Wind-cold common cold, asthma, cough, knocks and falls. Isolated compounds: 2221, 2313, 2314, 2315.
- T0927 *Beta* sp. (Chenopodiaceae). Isolated compounds: 22336.
- T0928 *Beta vulgaris* (Chenopodiaceae); TIAN CAI; Common Beet. Isolated compounds: 2057, 2317, 2318, 2319, 2973, 7768, 8784, 11082, 13439, 16050, 17770, 19459, 20446, 22623, 22624.
- T0929 *Betonica officinalis* (Lamiaceae); YAO SHUI SU; Medicinal Betonica. Isolated compounds: 2325, 11327.
- T0930 *Betula alba* (Betulaceae). Isolated compounds: 2329.
- T0931 *Betula ermanii* (Betulaceae); YUE HUA; Ermans Birch. Used part: bark. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 2330, 12045, 14157.
- T0932 *Betula luminifera* (Betulaceae); LIANG YE HUA PI; Shingleleaf Birch Bark. Used part: bark. TCM Effects: To dispel damp and dissipate cold, disperse stagnation and harmonize center, resolve toxin. TCM Indications: Common cold, wind-damp impediment pain, food accumulation distention and fullness, short voidings of reddish urine, mammary welling abscess, sore toxin, wind papules. Isolated compounds: 2336, 2337, 3318.
- T0933 *Betula platyphylla* (Betulaceae); HONG HUA PI; Japanese White Birch Bark. Used part: bark. TCM Effects: See *Betula platyphylla*. TCM Indications: See *Betula platyphylla*. Isolated compounds: 266, 2326, 2327, 2328, 17547.
- T0935 *Betula platyphylla* var. *japonica* (Betulaceae); HUA MU PI; Asian White Birch Bark. Equivalent plant: *Betula platyphylla* var. *japonica*. Used part: bark. TCM Effects: To clear heat and disinherit damp, relieve cough and dispel phlegm, resolve toxin and disperse swelling. TCM Indications: Pneumonia, dysentery, diarrhea, jaundice, nephritis, urinary tract infection, chronic trachitis, acute tonsillitis, periodontitis, acute mastitis, swollen boil, itchy papules, scalds. Isolated compounds: 1379, 2331, 10967, 16532, 17547.
- T0934 *Betula pubescens* (Betulaceae); MAO ZHI HUA; Pubescent Birch*. Isolated compounds: 17876, 17884.
- T0936 *Betula* sp. (Betulaceae). Isolated compounds: 9021, 18794, 19174, 22920.
- T0937 *Betula* spp. (Betulaceae). Isolated compounds: 10887, 17876, 17884, 19312.
- T0938 *Bidens bipinnata* (Asteraceae); GUI ZHEN CAO; Beggarticks. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, quicken blood and disperse swelling. TCM Indications: Swelling pain in throat, dysentery, diarrhea, jaundice, intestinal welling abscess, swelling toxin of clove sore, snake or insect bites, wind-damp impediment pain, knocks and falls. Isolated compounds: 2358, 2362, 9381, 11573, 19122, 21118, 21608, 21609.
- T0939 *Bidens parviflora* (Asteraceae); XIAO HUA GUI ZHEN; Smallflower Beggarticks. Isolated compounds: 2359, 2360, 2361, 2362, 4158, 4159, 5155, 6351, 20447.
- T0940 *Bidens* sp. (Asteraceae). Isolated compounds: 16024.
- T0941 *Bidens tripartita* (Asteraceae); LANG PA CAO; Bur Beggarticks. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp, free menstruation. TCM Indications: Lung heat cough, hemoptysis, swelling pain in throat, red and white dysentery, jaundice, menstrual disorder, amenorrhea, child *gan* accumulation, scrofula, eczema, lichen sore, poisonous snake bite. Isolated compounds: 663, 1476, 11573, 13137, 18317.

- T0942 *Biebersteinia heterostemon* (Geraniaceae); XUN DAO NIU; Heterostemonous Biebersteinia. Used part: fruit. TCM Effects: To clear heat and settle fright, move *qi* and relieve pain. TCM Indications: Warm heat disease with fever, common cold with fever, infant ardent fever convulsion, abdominal distention and pain, hemorrhoids. Isolated compounds: 14184, 22195.
- T0943 *Bifurcaria bifurcata* (Cystoseiraceae); SHUANG CHA ZAO; Brown Alga *Bifurcaria bifurcata*. Isolated compounds: 4920, 7086, 10142, 10143, 10144, 10145, 10146, 10758, 16736.
Biota orientalis = *Thuja orientalis*
- T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*] (Cupressaceae); BAI ZI REN; Chinese Arborvitae Kernel*. Used part: kernel. TCM Effects: To nourish heart and quiet spirit, constrain sweat, moisten intestines and free stool. TCM Indications: Fright palpitation and fearful throbbing, sleepless and amnesia, night sweating, intestinal dry and constipation. Isolated compounds: 2488, 2489, 11597, 14070, 17422, 22039.
- T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*] (Euphorbiaceae); QIU FENG MU; Javan Bishopwood. Used part: root, bark. TCM Effects: To dispel wind and eliminate damp, transform stasis and disperse accumulation. TCM Indications: Wind-damp bone pain (root cortex branchlet-leaf), depression of *qi* and blood, abscess, sore (leaf), red and white dysentery (root). Isolated compounds: 1113, 6918, 6919, 7950, 7952, 14158.
- T0946 *Bituminaria morisiana* (Fabaceae). Isolated compounds: 2365, 2495, 4190, 4604, 5851, 5973, 7295, 10047, 17830.
- T0947 *Bixa orellana* (Bixaceae); HONG MU; Anatto tree. Used part: root cortex, leaf, sarcocarp and seed. TCM Effects: To abate fever, interrupt malaria, resolve toxin. TCM Indications: Fever, malaria, sore pharynx, jaundice, dysentery, erysipelas, poisonous snake bite, sores. Isolated compounds: 2496, 8317, 8318, 8319, 15720.
- T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*] (Asteraceae); YU LIN CAI; Broadleaf *Blainvillea**. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough. TCM Indications: Common cold with fever, lung vacuity consumption cough, hemoptysis, sprain and contusion. Isolated compounds: 19046.
- T0949 *Blasia pusilla* (Blasiaceae); HU BAO TAI; *Blasia**. Isolated compounds: 18225.
- T0950 *Blatta orientalis* (Blattidae); ZHANG LANG; Cockroach. Used part: body. TCM Effects: To dissipate stasis, transform accumulation, resolve toxin. TCM Indications: Child *gan* accumulation, concretion conglomeration accumulation and gathering, throat impediment, nipple moth, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 7816.
- T0951 *Blechnum minus* (Blechnaceae); XIAO WU MAO JUE; Minus Hard-fern*. Isolated compounds: 6678.
- T0952 *Blechnum orientale* (Blechnaceae); WU MAO JUE; Oriental *Blechnum* Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, expel worms. TCM Indications: Common cold, headache, parotitis, swollen welling abscess, knocks and falls, nosebleed(epistaxis), blood ejection, flooding, vaginal discharge, intestinal parasitic disease. Isolated compounds: 2596, 3551.
- T0953 *Blepharostoma trichophyllum* (Blepharostomataceae); JIE MAO TAI; *Blepharostoma**. Isolated compounds: 2503, 5943, 12405, 12406, 12407, 12408.
- T0954 *Bletilla formosana* (Orchidaceae); LAN YU BAI JI; Taiwan *Bletilla**. Isolated compounds: 1476, 2456, 2460, 2461, 2509, 5763, 5771, 8237, 9837, 9838, 9845, 9846, 9848, 11648, 12020, 12062, 13912, 13980, 17968, 21690.
- T0955 *Bletilla striata* (Orchidaceae); BAI JI; Common *Bletilla*. Used part: rhizome. TCM Effects: To promote astriction and stanch bleeding, disperse swelling and engender flesh. TCM Indications: Hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, bleeding due to external injury, swelling toxin of welling abscess and sore, burns and scalds, cracking of hands and feet, splitting of anus. Isolated compounds: 2165, 2457, 2460, 2461, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 9847, 9848, 10176, 14154, 21900, 21910, 21920.
- T0956 *Blighia sapida* (Sapindaceae); XI FEI LI ZHI GUO; Akee. Isolated compounds: 8776, 10898.
- T0957 *Blumea balsamifera* (Asteraceae); AI NA XIANG; Balsamiferous *Blumea*. Used part: Branchlet-leaf. TCM Effects: To dispel wind and eliminate damp, warm center and check diarrhea, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, head wind headache, wind-damp impediment pain, cold-damp diarrhea and dysentery, taeniasis, poisonous snake bite, painful wound from knocks and falls, lichen sore. Isolated compounds: 2518, 2519, 2520, 2521, 2550, 2555, 5763, 17968, 22778.
- T0958 *Blumea glomerata* (Asteraceae); TUAN JI AI NA XIANG; Glomerate *Blumea**. Isolated compounds: 2021, 4283, 6338, 9406, 9509, 10595, 14417, 14737, 15635, 16873, 19174.
- T0959 *Blumea lacera* (Asteraceae); HONG TOU CAO; Malay *Blumea*. Used part: aerial parts. TCM Effects: To clear heat and drain fire, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, swelling pain in throat, mouth and tongue sores, stomach fire toothache, epidemic parotitis, swelling toxin of welling abscess and sore. Isolated compounds: 3208, 3987, 21622.
- T0960 *Bocconia frutescens* (Papaveraceae); GUAN ZHUANG MEI YING SU. Isolated compounds: 16628.
- T0961 *Bocconia* spp. (Papaveraceae). Isolated compounds: 3498.
- T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*] (Urticaceae); CHI MA; Tricuspidate Falsenettle. Used part: root or tender stem-leaf. TCM Effects: To promote astriction and stanch bleeding, clear heat and resolve toxin. TCM Indications: Hemoptysis, spontaneous external bleeding, hematochezia, hematuria, flooding and spotting, knocks and falls, innominate toxin swelling, sores. Isolated compounds: 2039, 2527, 2530, 6776.
- T0963 *Boehmeria siamensis* (Urticaceae); SHU XU ZHU MA; Siam Falsenettle. Used part: whole herb. TCM Effects: To clear heat and remove damp, dispel wind and relieve itch, quicken blood and regulate menstruation. TCM Indications: Abdominal pain, diarrhea, wind-damp impediment pain, eczema, itchy skin, menstrual block, lump glomus. Isolated compounds: 2528, 2529.
- T0964 *Boenninghausenia albiflora* (Rutaceae); YAN JIAO CAO; White

- Chinaure. Used part: whole herb. TCM Effects: To clear heat and cool blood, soothe sinews and quicken blood, eliminate inflammation. TCM Indications: Common cold, pharyngolaryngitis, hepatitis, hemoptysis, spontaneous external bleeding, lumbago, knocks and falls, subcutaneous static blood. Isolated compounds: 858, 859, 860, 1189, 2309, 2342, 2531, 2780, 4919, 5445, 6300, 6312, 9420, 10194, 10196, 11865, 11978, 13152, 13607, 14845, 15104, 15146, 15646, 19085, 21906, 22781.
- T0965 *Boeninghausenia albiflora* var. *japonica* (Rutaceae); RI BEN BAI SONG FENG CAO; Japanese White Chinaure*. Isolated compounds: 5445, 10194, 10196.
- T0966 *Boeninghausenia japonica* (Rutaceae); RI BEN CHOU JIE CAO; Japanese Chinaure*. Isolated compounds: 13607, 19085.
- T0967 *Boeninghausenia sessilicarpa* (Rutaceae); SHI JIAO CAO; Sessile-fruit Chinaure. Used part: whole herb. TCM Effects: To course wind and resolve exterior, clear heat and resolve toxin, move *qi* and quicken blood. TCM Indications: Common cold, tonsillitis, bronchitis, pneumonia, nephropylitis, stomachache and abdominal distention, thromboangiitis obliterans, lumbago, knocks and falls. Isolated compounds: 2342, 2531, 6300, 11865, 19804.
- T0968 *Boeninghausenia* sp. (Rutaceae). Isolated compounds: 3457.
- T0969 *Boerhavia diffusa* (Nyctaginaceae); HUANG XI XIN; Diffuse Boerhavia. Used part: root. TCM Effects: To quicken blood and dissipate stasis, strengthen sinews and bones, regulate menstruation, disperse *gan*. TCM Indications: Knocks and falls, pain in sinews and bones, menstrual disorder [= menoxenia], child *gan* accumulation. Isolated compounds: 2532, 2533, 2534, 2535, 2536, 2537.
- T0970 *Boesenbergia pandurata* (Zingiberaceae); QIN ZHUANG AO CHUN JIANG; Lyrate Boesenbergia*. Isolated compounds: 16867.
- T0971 *Bolbostemma paniculatum* (Cucurbitaceae); JIA BEI MU; Paniculate Bolbostemma. Used part: bulb. TCM Effects: To clear heat and resolve phlegm, dissipate binds and draw out toxin. TCM Indications: Mammary welling abscess, scrofula with phlegm node, toxin swelling of sores, wart, snake or insect bites. Isolated compounds: 17578, 17579, 17580, 17581, 17582, 20358, 20359, 21089, 21698, 22072, 22073, 22074, 22075, 22076.
Boletus cinnabarinus = *Trametes cinnabarina*
Boletus fomentarius = *Fomes fomentarius*
- T0972 *Bolusanthus speciosus* (Fabaceae); Tree Wisteria. Isolated compounds: 2539, 3004, 5235, 7883, 8136, 8278, 11434, 13107, 13637, 16209, 16545, 22667.
- T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*] (Bombacaceae); MU MIAN HUA; Common Bombax Flower. Used part: flower. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Diarrhea, dysentery, hemoptysis, blood ejection, flooding, incised wound and bleeding, sore toxin, eczema. Isolated compounds: 7441, 8078, 9869, 11453, 13481, 15069.
- T0974 *Bombyx batryticatus* (Bombycidae); JIANG CAN. Isolated compounds: 13995.
- T0975 *Bombyx mori* (Bombycidae); BAI JIANG CAN; Silkworm Larva. Used part: dried larva. TCM Effects: To dispel wind and resolve tetany, transform phlegm and dissipate binds, resolve toxin and disinhibit throat. TCM Indications: Epilepsy, fright wind and convulsion, swelling pain in throat, acute infection of upper respiratory tract, epidemic parotitis, diabetes mellitus, temporomandibular lymphnoiditis, facial paralysis, itchy skin. Isolated compounds: 2161, 2162, 2188, 2189, 3585, 6538, 6678, 6723, 6724, 7250, 13098, 15952, 16559, 20279, 20932.
- T0976 *Bombyx mori* (Bombycidae); CAN JIAN; Silk Cocoon. Used part: silk covering spun by larva. TCM Effects: To stanch bleeding, allay thirst, resolve toxin and cure sores. TCM Indications: Hematochezia, hematuria, flooding, diabetes mellitus, stomach reflux, *gan* disease, swollen welling abscess. Isolated compounds: 13098, 18341, 18405, 22060.
- T0977 *Bombyx mori* (Bombycidae); YUAN CAN E; Silkworm King. Used part: silkworm king. TCM Effects: To supplement kidney and invigorate *yang*, rough essence, stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Impotence and emission, white turbidity, blood strangury, incised wound and bleeding, swelling pain in throat, mouth and tongue sores, swelling toxin of welling abscess and sore, frostbite, snake bite. Isolated compounds: 6678, 15528.
- T0978 *Bombyx mori* (Bombycidae); YUAN CAN SHA; Silkworm Feculae. Used part: silkworm dried feces. TCM Effects: To dispel wind and eliminate damp, harmonize stomach and transform turbidity, quicken blood and free menstruation. TCM Indications: Wind-damp impediment pain, paralysis, wind papule itching, vomiting and diarrhea with cramp, amenorrhea, flooding and spotting. Isolated compounds: 7250, 11031, 13098, 17140, 17141, 17265, 19987.
- T0979 *Bombyx mori* (Bombycidae); YUAN CAN ZI; Silkworm Egg. Used part: silkworm egg. TCM Effects: To dispel wind and clear heat, check tetany. TCM Indications: Heat blood strangury, difficult delivery, tetanus. Isolated compounds: 3893, 3894, 6632, 7814, 7816, 10294, 13824, 21504, 21505, 21506, 22251, 22769.
- T0980 *Bonamia spectabilis* (Convolvulaceae). Isolated compounds: 2541, 2542, 2543, 2544, 15344, 15345.
- T0981 *Borago officinalis* (Boraginaceae); LIU LI JU; Common Borage. Isolated compounds: 5283, 13235, 21319.
- T0982 *Bos taurus domesticus* (Bovidae); HUANG MING JIAO; Oxhide Gelatin. Used part: gelatin made from hide of ox. TCM Effects: To enrich *yin* and moisten dryness, nourish blood and stanch bleeding, quicken blood and disperse swelling, resolve toxin. TCM Indications: Vacuity taxation lung wilting, cough and hemoptysis, blood ejection, spontaneous external bleeding, flooding and spotting, diarrhea with hematochezia, knocks and falls, sore toxin of welling abscess and flat abscess, scalds. Isolated compounds: 10660.
- T0983 *Bos taurus domesticus* (Bovidae); XIA TIAN GAO; Concentrated Beef Extract. Used part: beef extract. TCM Effects: To fortify spleen and stomach, supplement *qi* and blood, moisten dryness and transform phlegm. TCM Indications: Vacuity taxation with marked emaciation, wind stroke with hemiplegia, phlegm-rheum and glomus accumulation. Isolated compounds: 1350, 3205, 3205, 4221, 10913, 22246, 22251, 22756.
- T0984 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU DAN; Ox Gall. Used part: gall. TCM Effects: To clear liver and brighten eyes, disinhibit gallbladder and free intestines, resolve toxin and disperse swelling. TCM Indications: Wind-heat red eye, jaundice, cough with

- profuse phlegm, infant fright wind, swollen welling abscess, constipation, hemorrhoids. Isolated compounds: 8823, 22246.
- T0985 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU FEI; Ox Lung. Used part: lung. TCM Effects: To boost lung, relieve cough and asthma. TCM Indications: Lung vacuity, cough and counterflow. Isolated compounds: 14472.
- T0986 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU GAN; Ox Liver. Used part: liver. TCM Effects: To nourish blood, supplement liver, brighten eyes. TCM Indications: Vacuity taxation with marked emaciation, anemia with yellow complexion, clear-eye blindness, night blindness, fright epilepsy. Isolated compounds: 6721.
- T0987 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU HUANG; Cow-bezoar (Ox-gallstone). Used part: gallstone. TCM Effects: To clear heart and cool liver, clear heat and resolve toxin, lower blood pressure. TCM Indications: Ardent fever, coma, fright epilepsy, convulsion, febrile diseases clouded spirit, wind stroke with orifice block, acute infant fright wind, swelling pain in throat, mouth and tongue sores, welling abscess and flat abscess with clove sore. Isolated compounds: 2374, 2375, 3511, 3585, 3588, 5161, 7250, 8823, 12923, 20732.
- T0988 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU NAO; Ox Brain. Used part: brain. TCM Effects: To supplement brain and dispel wind, allay thirst, disperse glomus. TCM Indications: Head wind dizziness, brain leak, diabetes mellitus, glomus *qi*. Isolated compounds: 8753, 8770, 8771, 8773, 8774, 8775, 8781, 8783, 16478, 22353.
- T0989 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU RU; Cow Milk. Used part: milk. TCM Effects: To supplement vacuity detriment, boost lung and stomach, nourish blood, engender liquid and moisten dryness, resolve toxin. TCM Indications: Vacuity taxation detriment, stomach reflux and dysphagia-occlusion, diabetes mellitus, anemia and constipation, *qi* vacuity and dysentery, jaundice. Isolated compounds: 7853, 11083, 11084, 11085, 15528, 16214, 18261.
- T0990 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU SHEN; Ox Kidney. Used part: kidney. TCM Effects: To supplement kidney and boost essence, strengthen lumbus and knees, relieve pain due to impediment. TCM Indications: Vacuity taxation with kidney depletion, impotence, limp aching lumbus and knees, damp impediment pain. Isolated compounds: 653, 880, 4096, 4097, 4887, 5163, 9937, 9986, 15708.
- T0991 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU XUE; Ox Blood. Used part: blood. TCM Effects: To fortify spleen and supplement center, nourish blood and quicken blood. TCM Indications: Spleen vacuity and marked emaciation, amenorrhea, hematochezia, blood dysentery, incised wound. Isolated compounds: 4221, 4223, 9338, 17984, 22246, 22251.
- T0992 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU YE; Ox Thyroid. Used part: thyroid. TCM Effects: To disinhibit throat and disperse goiter. TCM Indications: Throat impediment, *qi* goiter. Isolated compounds: 6186, 6187, 21175, 21867, 21868.
- T0993 *Boschniakia rossica* (Orobanchaceae); CAO CONG RONG; Russian Boschniakia. Used part: whole herb. TCM Effects: To supplement kidney and invigorate *yang*, moisten intestines and free stool, stanch bleeding. TCM Indications: Kidney vacuity impotence, emission, cold pain in lumbus and knees, dribbling urination, hematuria, infertility due to uterus cold, vaginal discharge, flooding and spotting, intestinal dry and constipation. Isolated compounds: 2565, 2566, 4145, 4680, 10470, 18927, 18928, 18929, 21688.
- T0994 *Boswellia carterii* (Anacardiaceae); RU XIANG; Olibanum. Used part: balsam. TCM Effects: To move *qi* and quicken blood, free menstruation and relieve pain, disperse swelling and engender flesh. TCM Indications: Pain in heart and abdomen, wind-damp impediment pain, amenorrhea, dysmenorrhea, stasis pain from knocks and falls, swelling toxin of welling abscess and flat abscess, intestinal welling abscess, enduring sores. Isolated compounds: 440, 444, 2567, 2568, 6482, 10341, 12197, 12843, 13091, 13772, 14112, 15220, 15706, 17054, 21409, 21970.
- T0995 *Boswellia ovalifoliolata* (Anacardiaceae); TUO YUAN YE RU XIANG SHU; Ellipticleaf Olibanum*. Isolated compounds: 99, 16275, 16276.
- T0996 *Botryococcus braunii* (Botryococcaceae); CONG LI ZAO. Isolated compounds: 13201, 13202, 13203, 13204, 13205, 13206, 13207, 13208, 13209, 13210, 13211.
- T0997 *Botryodiplodia theobromae* tropical fungus *Botryodiplodia theobromae*. Isolated compounds: 10269.
- T0998 *Bouchardatia neurococca* (Rutaceae); Union Nut. Isolated compounds: 2569, 6112, 11769, 22381.
- T0999 *Bougainvillea glabra* (Nyctaginaceae); GUANG YE ZI HUA; Naked Leafyflower. Used part: flower. TCM Effects: To quicken blood and regulate menstruation, transform damp and check discharge. TCM Indications: Blood stasis and menstrual block, menstrual disorder, red and white vaginal discharge. Isolated compounds: 2321, 11251.
- T1000 *Bowdichia* spp. Isolated compounds: 3004.
- T1001 *Brachystemma calycinum* (Caryophyllaceae); DUAN BAN HUA; Shortpetalflower. Used part: root or whole herb. TCM Effects: To quicken blood and transform stasis, free strangury and transform turbid, resolve toxin and disperse swelling. TCM Indications: Blood stasis and dysmenorrhea, menstrual block, aberratio mensium, concretion and conglomeration with mass, heat strangury, blood strangury, white turbidity, leukorrhea, impediment pain into network vessels, hypertonicity of sinews and vessels, knocks and falls, swelling toxin of welling abscess and sore, nipple moth, diphtheria. Isolated compounds: 2578, 2579, 2580, 2581, 2582, 2583.
- T1002 *Brackenridgea zanguebarica* (Ochnaceae); SANG DAO BU SHI MU. Isolated compounds: 2985, 4045, 5551, 15916.
- T1003 *Brandisia hancei* (Scrophulariaceae); LAI JIANG TENG; Hance Brandisia. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, clear heat and resolve toxin. TCM Indications: Wind-damp pain in sinew and bone, edema, diarrhea, jaundice, taxation damage and blood ejection, medullitis, periostitis, sore and boil. Isolated compounds: 6073.
- T1004 *Brasenia schreberi* (Nymphaeaceae); CHUN; Common Watershield. Used part: stem-leaf. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin. TCM Indications: Damp-heat dysentery, jaundice, edema, inhibited urination, heat toxin swollen welling abscess. Isolated compounds: 8078, 9568, 22556.
- Brassica alba* = *Sinapis alba*

- T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*] (Brassicaceae); YUN TAI ZI; Bird Rape. Used part: seed. TCM Effects: To quicken blood and transform stasis, dissipate binds and disperse swelling, moisten intestines and free stool. TCM Indications: Postpartum persistent flow of lochia, blood stasis and abdominal pain, dysmenorrhea, intestinal wind bleeding, blood dysentery, pain in joints due to rheumatism, swollen welling abscess, erysipelas, mammary welling abscess, constipation. Isolated compounds: 2596, 3040, 3585, 7291, 13861.
- T1006 *Brassica chinensis* (Brassicaceae); CHEN DONG CAI LU ZHI; Mature Winter-vegetable Spiced Juice. Used part: juice from whole herb. TCM Effects: To eliminate vexation and heat, engender liquid and allay thirst, clear lung and transform phlegm, free intestines and stomach. TCM Indications: Phlegm fire cough, swelling pain in throat. Isolated compounds: 4031.
Brassica hirta = *Sinapis alba*
- T1007 *Brassica juncea* (Brassicaceae); JIE CAI; India Mustard. Used part: tender stem and leaf. TCM Effects: To disinhibit lung and transform phlegm, disperse swelling and dissipate binds. TCM Indications: Cold rheum cough, phlegm stagnation and *qi* counterflow, fullness and oppression in chest and diaphragm, sand strangury, stone strangury, gum swelling erosion, mammary welling abscess, swelling hemorrhoids, frostbite (kibe), lacquer sore. Isolated compounds: 2597, 8599, 9863, 10598, 17117.
- T1008 *Brassica juncea* (Brassicaceae); JIE ZI; India Mustard Seed. Used part: seed. TCM Effects: To warm center and dissipate cold, break phlegm and disinhibit orifices, free network vessels and disperse swelling. TCM Indications: Vomiting with stomach cold, pain in heart and abdomen, lung cold cough, impediment pain, throat impediment, flowing phlegm, knocks and falls. Isolated compounds: 949, 2294, 2782, 2798, 2799, 8599, 10232, 11625, 14539, 14762, 16888, 17117, 17125, 17903, 19912, 19917, 19935.
- T1009 *Brassica napus* (Brassicaceae); OW ZHOU YOU CAI; Rape. Isolated compounds: 2596, 2598, 2905, 3040, 6508, 6509, 6510, 8589, 12092, 12094, 12095, 12096, 13861, 15400, 18411, 22036, 22037.
- T1010 *Brassica napus* var. *napobrassica* (Brassicaceae); WU JING GAN LAN; Swede Seed. Isolated compounds: 8591, 8595, 8596, 14336.
- T1011 *Brassica napus* var. *napus* (Brassicaceae); YOU CAI ZI; Rapeseed*. Isolated compounds: 17903.
- T1012 *Brassica nigra* (Brassicaceae); HEI JIE; Black Mustard. Isolated compounds: 8599.
- T1013 *Brassica oleracea* (Brassicaceae); YE JIE; Wild Cabbage. Isolated compounds: 19912, 21541.
- T1014 *Brassica oleracea* var. *botrytis* (Brassicaceae); HUA YE CAI; Cauliflower. Isolated compounds: 8591, 8598.
- T1015 *Brassica oleracea* var. *botrytis* subvar. *cauliflora* (Brassicaceae); JING HUA HUA YE CAI; Cauliflory Brassica*. Isolated compounds: 15400.
- T1016 *Brassica oleracea* var. *botrytis* subvar. *cymosa* (Brassicaceae); JU SAN HUA YE CAI; Cymose Brassica*. Isolated compounds: 8752, 15400.
- T1017 *Brassica oleracea* var. *capitata* (Brassicaceae); GAN LAN; Cabbage. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, dissipate binds and relieve pain, boost kidney and supplement vacuity. TCM Indications: Damp-heat jaundice, pain from ulcer in digestive tract, stiffness in joints, vacuity detriment. Isolated compounds: 949, 2782, 3551, 8589, 8595, 8598, 8752, 9614, 11026, 14728, 14730, 17903, 22517, 22564.
- T1018 *Brassica oleracea* var. *gemmifera* (Brassicaceae); BAO ZI GAN LAN; Brussels Sprout. Isolated compounds: 8589, 8595, 8598, 8752, 15400.
- T1019 *Brassica oleracea* var. *gongyolodes* (Brassicaceae); PIE LAN; Kohl-rabi. Isolated compounds: 8598, 15400.
- T1020 *Brassica oleracea* var. *sabauda* (Brassicaceae); YU YI GAN LAN; Savoy Cabbage. Isolated compounds: 8598.
- T1021 *Brassica rapa* (Brassicaceae); WU QING; Turnip. Used part: root or leaf. TCM Effects: To disperse food and precipitate *qi*, resolve toxin and disperse swelling. TCM Indications: Indigestion of overnight food, cold pain in heart and abdomen, cough, swollen welling abscess and toxin of clove. Isolated compounds: 2596, 11655.
- T1022 *Brassica rutabaga* (Brassicaceae); RUI DIAN GAN LAN; Swedish Turnip. Isolated compounds: 13212.
- T1023 *Bredia tuberculata* (Melastomataceae); HONG MAO YE HAI TANG; Tuberculate Bredia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation. Isolated compounds: 15641, 15642.
- T1024 *Brenania brieyi*. Isolated compounds: 8065.
- T1025 *Bretschneidera sinensis* (Bretschneideraceae); BO LE SHU; Chinese Bretschneidera. Used part: bark. TCM Effects: To quicken blood and dispel wind. TCM Indications: Pain in sinews and bones. Isolated compounds: 17399.
- T1026 *Breynia officinalis* (Euphorbiaceae); YAO YONG HEI MIAN SHEN YE; Medicinal Breynia Leaf*. Isolated compounds: 1618, 2329, 2607, 2608, 2609, 2610, 2611, 2612, 7695, 11682, 18877, 22126.
- T1027 *Brickellia arguta* var. *odontolepis* JIAN CHI BU LI KE ER CAO. Isolated compounds: 16726, 16729.
- T1028 *Bridelia retusa* (Euphorbiaceae); SI LI LAN KA TU MI SHU; Sri-Lankan Bridelia. Isolated compounds: 6390, 6391, 6392, 6393, 11322, 19777.
- T1029 *Brodiaea californica* (Liliaceae); Triplet Lily. Isolated compounds: 4295, 4300.
- T1030 *Brosimum acutifolium* (Moraceae); JIAN YE BAO SHI MU. Isolated compounds: 2626, 2627.
- T1031 *Broussonetia kazinoki* (Moraceae); XIAO GOU SHU; Kazinoki Papermulberry. Used part: whole herb or root, root cortex. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and disperse swelling. TCM Indications: Wind-damp impediment pain, diarrhea, dysentery, jaundice, edema, welling abscess and boil, knocks and falls. Isolated compounds: 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2652, 2653, 2654, 2655, 2656, 12188, 12189.
- T1032 *Broussonetia papyrifera* (Moraceae); GOU SHU; Common Papermulberry. Used part: branch. TCM Effects: To dispel wind, brighten eyes, disinhibit urine. TCM Indications: Wind papules, red eyes with gall, inhibited urination [=dysuria]. Isolated compounds: 51, 846, 1397, 1402, 1764, 2172, 2629, 2630, 2635, 2650, 2651, 4108, 5086, 5746, 5894, 6001, 6088, 6102, 6103, 7485, 8141, 8262, 8262,

- 10445, 10506, 11490, 12681, 13571, 14956, 14961, 14962, 14964, 15279, 18643, 20326, 21086, 21116, 21117, 21128, 21151.
- T1033 *Broussonetia papyrifera* (Simaroubaceae); GOU SHU BAI PI; Common Papermulberry Bast*. Used part: endoderm bark. TCM Effects: To disinhibit water, stanch bleeding. TCM Indications: Inhibited urination [=dysuria], edema distention fullness, hematochezia, flooding and spotting [= metrorrhagia and metrostaxis]. Isolated compounds: 2629, 2630, 2631, 2632, 12186, 12187.
- T1034 *Broussonetia papyrifera* (Simaroubaceae); GOU SHU GEN; Common Papermulberry Root*. Used part: tender root or root cortex. TCM Effects: To cool blood and dissipate stasis, clear heat and disinhibit damp. TCM Indications: Cough with blood ejection, flooding and spotting [= metrorrhagia and metrostaxis], edema, knocks and falls. Isolated compounds: 2633, 2634.
- T1035 *Broussonetia papyrifera* (Moraceae); GOU SHU GUO; Common Papermulberry Fruit. Used part: fruit. TCM Effects: To enrich *yin* and supplement kidney, clear liver and brighten eyes, fortify spleen and disinhibit water. TCM Indications: Limp aching lumbus and knees due to kidney vacuity, impotence, dim vision, eye screen, edema, scant urine. Isolated compounds: 2628, 2647, 2648, 2649, 17403.
- T1036 *Brucea amarissima* (Simaroubaceae); KU YA DAN ZI; Bitter Brucea*. Isolated compounds: 2664, 2665, 2667, 11860, 11861, 11862, 11863.
- T1037 *Brucea antidysenterica* (Simaroubaceae); KANG LI YA DAN ZI; Antidysenteric Brucea*. Isolated compounds: 2660, 2661, 2662, 22875.
- T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (Simaroubaceae); YA DAN ZI; Java Brucea. Used part: fruit. TCM Effects: To clear heat and dry damp, resolve toxin and kill worms. TCM Indications: Malaria, amebic dysentery, dysentery with pus and blood, tenesmus, corn and common wart. Isolated compounds: 748, 1424, 1441, 2616, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2684, 3829, 4680, 6193, 7398, 7824, 7931, 9486, 11427, 11852, 11853, 11854, 11855, 11856, 11857, 11858, 11859, 12891, 13143, 13286, 16066, 19692, 19693, 20280, 22857, 22858, 22859, 22860, 22861, 22862, 22863, 22864, 22865, 22866, 22867, 22868, 22869, 22870, 22871, 22872, 22873, 22874, 22875.
- T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera. Used part: leaf. TCM Effects: To resolve toxin and interrupt malaria. TCM Indications: Malaria. Isolated compounds: 2680, 2681, 2682, 3548, 5929, 5933, 5937, 9864, 10277, 10281, 10559, 10625, 12171, 12177, 12180, 14304, 14305, 21757.
- T1040 *Bruguiera parviflora* (Rhizophoraceae); XIAO HUA MU LAN GUO; Smallflower Bruguiera Fruit*. Isolated compounds: 2910, 2911, 4168, 6451, 13097, 13098.
- T1041 *Brunsvigia radulosa* (Amaryllidaceae); BU LANG WEI JI. Isolated compounds: 472, 1276, 1532.
- T1042 *Bryonia alba* (Cucurbitaceae); BAI XIE GEN; White Bryony. Isolated compounds: 4317, 4319, 4320, 4323, 4324, 4327.
- T1043 *Bryophyllum pinnatum* (Crassulaceae); LUO DI SHENG GEN; Air-plant. Used part: root or whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Blood ejection, bleeding due to external injury, knocks and falls, swollen welling abscess and clove sores, mammary welling abscess, mammary rock, erysipelas, ulcer, scalds, stomachache, pain in joints, swelling pain in throat, lung heat cough. Isolated compounds: 1110, 1113, 1935, 2688, 2689, 2690, 2691, 2692, 2693, 16028, 18408, 22223.
- T1044 *Bryum argenteum* (Bryaceae); ZHEN XIAN. Used part: plant body. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Bacillary dysentery, jaundice, nasosinusitis, swelling toxin of welling abscess and sore, burns and scalds, spontaneous external bleeding, coughing of blood. Isolated compounds: 11705.
- T1045 *Bubalus bubalis* (Bovidae); SHUI NIU JIAO; Buffalo Horn. Used part: horn. TCM Effects: To clear heat, resolve toxin, cool blood, settle fright. TCM Indications: Headache due to febrile disease, ardent fever with clouded spirit, macular eruption and papules, blood ejection, spontaneous external bleeding, stasis heat yellowing, infant fright wind, swelling pain in throat, mouth and tongue sores. Isolated compounds: 9067.
- T1046 *Buddleja davidii* (Loganiaceae); DA YE ZUI YU CAO; Orangeeye Butterflybush. Used part: branchlet-leaf, root cortex. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain, resolve toxin and kill worms. TCM Indications: Wind-cold cough, impediment pain, knocks and falls, swollen welling abscess, sore and boil, pudendal itch of women, leprosy, foot lichen. Isolated compounds: 2125, 2697, 3245, 11529, 11885, 12725, 17509.
- T1047 *Buddleja globosa* (Loganiaceae); QIU HUA ZUI YU CAO; Orange-ball-tree. Isolated compounds: 580, 14222.
- T1048 *Buddleja officinalis* (Loganiaceae); MI MENG HUA; Pale Butterflybush. Used part: flower. TCM Effects: To clear heat and nourish liver, eliminate screen and brighten eyes. TCM Indications: Red eyes with gall, delacrimation and photophobia, liver vacuity dim vision, dim vision, malaria. Isolated compounds: 56, 61, 580, 1476, 13137, 13887, 14866, 14867, 15347.
- T1049 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN CHU; Toad. Used part: whole body. TCM Effects: To resolve toxin and dissipate binds, disperse accumulation and disinhibit water, kill worms and disperse *gan*. TCM Indications: Welling abscess and flat abscess, clove sore, effusion of back, scrofula, malign sore, concretion and accumulation, ascites, edema, child *gan* accumulation, tetanus, chronic cough and asthma. Isolated compounds: 2715, 2716, 2726, 2728, 3729, 9329, 18637.
- T1050 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN CHU DAN; Toad Gall. Used part: gall. TCM Effects: To suppress cough and dispel phlegm, resolve toxin and dissipate binds. TCM Indications: Trachitis, child aphonia, scrofula in early stage, clove sore of nose. Isolated compounds: 2719, 7730, 16841, 21138, 21692, 21693, 21696, 21754.
- T1051 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN PI; Toad Skin. Used part: skin. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse distention. TCM Indications: Welling abscess and flat abscess, toxin swelling, scrofula, eczema, *gan* accumulation, chronic trachitis. Isolated compounds: 2724, 8122, 18637, 21841.
- T1052 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN SU;

- Toad Skin Secretion Cake. Used part: dried secretion of skin glands. TCM Effects: To resolve toxin, relieve pain, open orifices and arouse spirit. TCM Indications: Welling abscess and flat abscess with clove sores, swelling pain in throat, summerheat stroke with vomiting and diarrhea, abdominal pain and clouded spirit, local anesthesia. Isolated compounds: 653, 1048, 1664, 2714, 2715, 2716, 2717, 2718, 2721, 2722, 2723, 2726, 2727, 3040, 3585, 3729, 3730, 3731, 3732, 3733, 4884, 5237, 5238, 5239, 7190, 7191, 7192, 7193, 7912, 8121, 8123, 9859, 9861, 9904, 9917, 9918, 9993, 10672, 10673, 13566, 14981, 16296, 16312, 16329, 18636, 18637, 18638, 19760, 19983, 20439, 20911, 22058.
- T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*] (Orchidaceae); MI HUA SHI DOU LAN; Flowery Stonebean-orchis. Used part: whole herb. TCM Effects: To moisten lung and transform phlegm, free network vessels and relieve pain. TCM Indications: Tuberculosis and hemoptysis, chronic trachitis, chronic pharyngitis, mounting *qi* pain, menstrual disorder, wind-damp impediment pain, knocks and falls. Isolated compounds: 17399.
- T1054 *Bulbophyllum vaginatum* (Orchidaceae); QIAO SHI DOU LAN; Vaginate Stonebean-orchis*. Isolated compounds: 2398, 10504, 13911, 13913, 14050, 14051.
- T1055 *Bupleurum angustissimum* (Apiaceae); XIAN YE CHAI HU; Linearleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15218, 19142, 19148.
- T1056 *Bupleurum aureum* (Apiaceae); JIN HUANG CHAI HU; Goldenyellow Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 20168.
- T1057 *Bupleurum bicaule* ZHUI YE CHAI HU; Acicular Thorowax. Isolated compounds: 19142, 19148.
- T1058 *Bupleurum chaishoui* (Apiaceae); CHAI SHOU; Chaishou Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15705, 16893.
- T1059 *Bupleurum chinense* (Apiaceae); CHAI HU; Chinese Thorowax. Equivalent plant: *Bupleurum scorzoniferifolium*, *Bupleurum smithii* var. *parvifolium*, *Bupleurum aureum*, *Bupleurum longiradiatum*, *Bupleurum marginatum*, *Bupleurum marginatum* var. *stenophyllum*, *Bupleurum angustissimum*, *Bupleurum chaishoui*, *Bupleurum wenchuanense*, *Bupleurum sibiricum*, *Bupleurum yinchowense*. Used part: root. TCM Effects: To harmonize exterior and interior, soothe liver and upbear *yang*. TCM Indications: Common cold, influenza, malaria, acute pancreatitis, pleuritis, neuritis, gastritis, acute cholecystitis, hepatitis, fever due to external contraction, keratitis, cold-heat in turn, liver depression and rib-side pain, mammary distention, dizziness and headache, menstrual disorder, prolapse of rectum due to *qi* vacuity fall, prolapse of uterus, gastroptosis. Isolated compounds: 645, 1191, 3139, 3140, 3237, 4305, 6795, 7521, 8312, 9021, 9402, 9415, 9486, 9669, 11642, 12018, 12800, 12843, 12849, 12893, 12955, 12969, 12980, 14275, 15146, 15218, 15221, 15684, 15694, 15705, 15971, 15982, 16884, 17021, 17022, 17089, 18190, 19130, 19131, 19133, 19134, 19135, 19142, 19147, 19148, 19157, 19158, 19161, 19162, 19164, 19165, 19166, 20168, 20280, 20369, 20370, 20995, 21139, 21360, 21610, 22217, 22337.
- T1060 *Bupleurum falcatum* (Apiaceae); ZI HU; Sickle-leaved Hare's-ear. Isolated compounds: 502, 2753, 2754, 2755, 2756, 10685, 10686, 10687, 11584, 13448, 13449, 17081, 17082, 19132, 19142, 19143, 19144, 19145, 19148, 19149, 20169, 21139.
- T1061 *Bupleurum fruticosum* (Apiaceae); MU CHAI HU; Fruticose Thorowax*. Isolated compounds: 19540.
- T1062 *Bupleurum fruticosum* (Apiaceae); GUAN MU CHAI HU; Shrub Thorowax (Shrubby Hare's-ear). Isolated compounds: 214, 6288, 21142, 21728, 21784, 21930.
- T1063 *Bupleurum gibraltarium* (Apiaceae); ZHI BU LUO TUO CAI HU; Gibraltar Thorowax*. Isolated compounds: 21141, 21728.
- T1064 *Bupleurum kunmingense* (Apiaceae); KUN MING CHAI HU; Kunming Thorowax*. Isolated compounds: 19146, 21140, 21821, 21823.
- T1065 *Bupleurum longiradiatum* (Apiaceae); DA YE CHAI HU; Bigleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 340, 2752, 2757, 2758, 19148, 20168.
- T1066 *Bupleurum marginatum* (Apiaceae); ZHU YE CHAI HU; Bambooleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 14087, 15218, 17941, 19142, 19144, 19147, 19148, 19149.
- T1067 *Bupleurum marginatum* var. *stenophyllum* (Apiaceae); ZHAI ZHU YE CHAI HU; Narrowbambooleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 498, 14087, 15218, 15705, 19140, 19141, 19144, 19145.
- T1068 *Bupleurum polyclonum* (Apiaceae); DUO ZHI CHAI HU; Ramose Thorowax*. Isolated compounds: 19143, 19149, 21140, 21821, 21823.
- T1069 *Bupleurum rigidum* (Apiaceae); JIAN YING CHAI HU; Thorowax. Isolated compounds: 19245, 19246, 19247, 19248, 19249.
- T1070 *Bupleurum rockii* (Apiaceae); LI JIANG CHAI HU; Rock Thorowax. Isolated compounds: 19143, 19149.
- T1071 *Bupleurum rotundifolium* (Apiaceae); YUAN YE CHAI HU; Roundleaf Thorowax*. Isolated compounds: 11642, 17918, 18944, 18945, 18946, 18947, 18948, 18949, 18950, 18951, 18952, 18953, 18956, 18957.
- T1072 *Bupleurum scorzoniferifolium* (Apiaceae); HONG CHAI HU; Red Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 501, 503, 1763, 3045, 3451, 3531, 4029, 5543, 6741, 7519, 7729, 7750, 9500, 9669, 10829, 11318, 11470, 12106, 12604, 15331, 15705, 16216, 16705, 19137, 19138, 19139, 19142, 19147, 19148, 19159, 19160, 19162, 19163, 19164, 19167, 19515, 19563, 19564, 19565, 20989, 20993, 20994, 21190, 22718.
- T1073 *Bupleurum sibiricum* (Apiaceae); XING AN CHAI HU; Siberia Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 17805.
- T1074 *Bupleurum smithii* (Apiaceae); HEI CHAI HU; Black Thorowax. Isolated compounds: 19136, 19142, 19143, 19147, 19148, 19150,

- 19151, 19152, 19153, 21139.
- T1075 *Bupleurum smithii* var. *parvifolium* (Apiaceae); XIAO YE HEI CHAI HU; Smallleaf Black Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15218, 19134, 19135, 19136, 19142, 19148, 19154, 19155, 19156.
- T1076 *Bupleurum spinosum* (Apiaceae); DUO CI CHAI HU; Spiny Thorowax*. Isolated compounds: 16857.
- T1077 *Bupleurum* spp. (Apiaceae). Isolated compounds: 19142, 19147, 19148.
- T1078 *Bupleurum wenchuanense* (Apiaceae); WEN CHUAN CHAI HU; Wenchuan Thorowax*. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 499, 500, 5346, 8730, 17942, 21140, 21821, 21823, 22840.
- T1079 *Bupleurum yinchowense* (Apiaceae); YIN ZHOU CHAI HU; Yinchow Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 19142, 19143, 19148.
- T1080 *Bursera graveolens* (Burseraceae); LIE WEI LIE LAN; Bursera*. Isolated compounds: 2769, 6954, 13098, 17343.
- T1081 *Bursera microphylla* (Burseraceae); XIAO YE LIE LAN; Elephant Tree. Isolated compounds: 1372, 2768.
- T1082 *Bursera tonkinensis* (Burseraceae); YUE NAN LIE LAN; Tonkin Bursera*. Isolated compounds: 2765, 2766, 2767, 5074, 5075, 5582, 10446, 11477, 13907.
- T1083 *Butea monosperma* (Fabaceae); DAN ZI ZI MAO; Bengal Kino. Isolated compounds: 2786.
- T1084 *Buthus martensi* (Buthidae); QUAN XIE; Scorpion. Used part: body. TCM Effects: To calm, dispel wind and check tetany, free network vessels and relieve pain, attack toxin and dissipate binds. TCM Indications: Infant fright wind, convulsion, spasm, wind stroke with deviated eyes and mouth, hemiplegia, tetanus, wind-damp impediment, migraine, headache, toothache, deafness, hypertension, swelling toxin of welling abscess and sore, scrofula with phlegm node, snake bite, burns, wind papules, intractable lichen. Isolated compounds: 3585, 9486, 20280, 20732, 21939.
- T1085 *Buxus argentea* (Buxaceae); YIN BAI HUANG YANG; Argentine Box*. Isolated compounds: 4543.
- T1086 *Buxus balearica* (Buxaceae); XI BAN YA HUANG YANG; Balearic Box. Isolated compounds: 4531.
- T1087 *Buxus bodinieri* (Buxaceae); QUE SHE HUANG YANG; Bodinier Box. Used part: root, leaf or flowe. TCM Effects: To clear heat and resolve toxin, suppress cough, stanch bleeding. TCM Indications: Cough, coughing of blood, toxin swelling of sores. Isolated compounds: 2818, 2819, 2820, 2821, 2822.
- T1088 *Buxus harlandii* (Buxaceae); XI YE HUANG YANG; Harland Box. Isolated compounds: 4477.
- T1089 *Buxus hyrcana* (Buxaceae); HE KA NI YA HUANG YANG; Hyrcanian Box*. Isolated compounds: 2233, 4477, 11291, 21374.
- T1090 *Buxus malaiana* (Buxaceae); MA LAI XI YA HUANG YANG; Malaysian Box*. Isolated compounds: 4531, 4543.
- T1091 *Buxus microphylla* (Buxaceae); XIAO YE HUANG YANG; Small-leaved Box. Isolated compounds: 4477, 4543.
- T1092 *Buxus microphylla* var. *sinica* (Buxaceae); HUANG YANG MU YE; Chinese Box Juvenile Leaf. Used part: tender leaf. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Wind-damp impediment pain, *qi* distention in chest and abdomen, mounting *qi*, toothache, painful wound from knocks and falls. Isolated compounds: 2817, 2831, 2832, 4502, 4544, 11702.
- T1093 *Buxus papillosa* (Buxaceae); DUO RU TOU HUANG YANG; Papillose Box*. Isolated compounds: 2813, 2814, 2815, 4516, 4532, 4542, 19696.
- T1094 *Buxus sempervirens* (Buxaceae); JIN SHU HUANG YANG; European Boxwood. Isolated compounds: 2191, 2816, 4477, 4531, 4543.
- T1095 *Buxus wallichiana* (Buxaceae); WA LI XI HUANG YANG; Himalayan Box. Isolated compounds: 4477, 4543.

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- T1096 *Cabucala fasciculata* CU SHENG KA BU MU. Isolated compounds: 22502.
- T1097 *Cacalia ainsliaeflora* (Asteraceae); TU ER FENG XIE JIA CAO; Ainsliaefolious Cacalia. Used part: tuber. TCM Effects: To dissipate stasis, resolve toxin, kill worms. TCM Indications: Wind-damp edema, innominate toxin swelling, *lai* lichen. Isolated compounds: 1215, 1217, 1218, 1222, 1227, 1231, 5356, 21827.
- T1098 *Cacospongia scalaris* . Isolated compounds: 6113.
- T1099 *Cadia* spp. (Fabaceae). Isolated compounds: 3004.
- T1100 *Caesalpinia crista* (Fabaceae); CI GUO SU MU; Nickernut Caesalpinia. Used part: ripe seed. TCM Effects: To quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Stomach duck pain, abdominal pain, red eyes with gall, sores. Isolated compounds: 137, 138, 2862, 2865, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 15349, 15350, 15722, 15723.
- T1101 *Caesalpinia decapetala* (Fabaceae); YUN SHI YE; Caesalpinia*. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel stasis and relieve pain, expel worms, free stool. TCM Indications: Intervallic fever, acute gastritis, chronic gastritis, gastric ulcer, dysentery, indigestion, intestinal worm accumulation, constipation, swollen boil. Isolated compounds: 1935, 2860, 3243, 13098, 18317, 18643, 20137, 20237, 20369.
- T1102 *Caesalpinia digyna* (Fabaceae); ER CI YUN SHI; Digyna Caesalpinia*. Isolated compounds: 2312.
- T1103 *Caesalpinia echinata* (Fabaceae); JI YUN SHI; Brazil-wood. Isolated compounds: 2594.
- T1104 *Caesalpinia japonica* (Fabaceae); RI BEN SU MU; Japanese Caesalpinia*. Isolated compounds: 17988.
- T1105 *Caesalpinia major* (Fabaceae); DA YUN SHI; Large Caesalpinia*. Isolated compounds: 2862.
- T1106 *Caesalpinia minax* (Fabaceae); KU SHI LIAN; Whiteflower Caesalpinia. Used part: seed. TCM Effects: To clear heat and transform damp. TCM Indications: Wind-heat common cold, dysentery, strangury-turbidity, retching counterflow, swollen welling abscess, sore and lichen, knocks and falls, poisonous snake bite. Isolated compounds: 2863, 2864, 2865, 2866, 2867, 2868, 2869,

- 20369.
- T1107 *Caesalpinia pulcherrima* (Fabaceae); JI MEI YUN SHI; Prettiest Caesalpinia. Isolated compounds: 2244, 2283, 2861, 3244, 3708, 6263, 10748, 11258, 11777, 11778, 11779, 11780.
- T1108 *Caesalpinia sappan* (Fabaceae); SU MU; Sappan Caesalpinia. Used part: heartwood. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Amenorrhea and dysmenorrhea, postpartum blood stasis, stabbing pain in chest and abdomen, swelling pain due to external injury. Isolated compounds: 2594, 5195, 5211, 5212, 8095, 9337, 10177, 14099, 14159, 14402, 14403, 14700, 14720, 14721, 15451, 15457, 15935, 17985, 17986, 17987, 17988, 17989, 17990, 17991, 19346, 19347, 19347, 19348, 19348, 21033.
- T1109 *Caesalpinia tinctoria* (Fabaceae); SE ZE YUN SHI; Tinctorial Caesalpinia*. Isolated compounds: 2108.
- T1110 *Calceolaria inamoena* (Scrophulariaceae); BU MEI HE BAO HUA; Chile Calceolaria*. Isolated compounds: 10073, 10074, 10075, 10076.
- T1111 *Calea urticifolia* (Compositae); YOU KA MEI JU; Juanislama (in Salvador). Isolated compounds: 2956, 2957, 2958, 2964, 7060, 7153, 11895.
- T1112 *Calendula arvensis* (Asteraceae); XIAO JIN ZHAN HUA; Field Marigold. Used part: whole herb or flower. TCM Effects: To clear heat and stanch bleeding. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids. Isolated compounds: 1828, 3211.
- T1113 *Calendula officinalis* (Asteraceae); JIN ZHAN JU; Potmarigold Calendula. Used part: flower and root. TCM Effects: To move *qi* and quicken blood (root), cool blood and stanch bleeding (flower). TCM Indications: Cold pain in stomach duct and abdomen, mounting *qi*, concretion and conglomeration (root), intestinal wind bleeding (flower). Isolated compounds: 1749, 1829, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 3866, 7821, 9588, 10948, 11659, 11662, 11667, 11669, 12980, 13212, 13287, 13479, 14233, 14980, 16015, 16016, 16017, 16018, 16041, 18190, 18378, 18378, 19039, 22154, 22520.
- T1114 *Calendula* sp. (Asteraceae). Isolated compounds: 15135.
- T1115 *Calliandra inermis* (Fabaceae); WU CI ZHU YING HUA; Spineless Powderpuff*. Isolated compounds: 6240, 21182, 21186.
- T1116 *Callicarpa arborea* (Verbenaceae); QIAO MU ZI ZHU; Tree Beautyberry. Used part: root and leaf. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Bleeding due to external injury, bleeding of digestive tract, spontaneous external bleeding, flooding and spotting. Isolated compounds: 2169, 14158, 19994.
- T1117 *Callicarpa candicans* (Verbenaceae); BAI MAO ZI ZHU; Whitehairy Beautyberry. Isolated compounds: 2976.
- T1118 *Callicarpa formosana* (Verbenaceae); DU HONG HUA; Taiwan Beautyberry. Equivalent plant: *Callicarpa japonica*. Used part: leaf. TCM Effects: To promote contraction and stanch bleeding, clear heat and resolve toxin. TCM Indications: Hemoptysis, retching blood, spontaneous external bleeding, gum hemorrhage, bloody urine, bloody stool, flooding and spotting, purpuric dermatosis, bleeding due to external injury, swelling toxin of welling abscess and flat abscess, poisonous snake bites, burns. Isolated compounds: 580, 16867.
- T1119 *Callicarpa japonica* (Verbenaceae); RI BEN ZI ZHU; Japanese Beautyberry. Used part: leaf. TCM Effects: See *Callicarpa formosana*. TCM Indications: See *Callicarpa formosana*. Isolated compounds: 21202.
- T1120 *Callicarpa macrophylla* (Verbenaceae); DA YE ZI ZHU; Bigleaf Beautyberry. Used part: root or leaf. TCM Effects: To stanch bleeding and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Hemoptysis, spontaneous external bleeding, bleeding due to external injury, bleeding from dental extraction, painful swelling from knocks and falls, wind-damp bone pain. Isolated compounds: 1494, 2979, 2980.
- T1121 *Calocedrus macrolepis* var. *formosana* (Cupressaceae); TAI WAN CUI BAI; Taiwan Incense Cedar. Isolated compounds: 5806, 6092, 7886, 7887, 7888, 10696, 11563, 14069, 15146, 15513, 15891, 15892, 15896, 15897, 20628.
- T1122 *Caloglossa leprieurii* (Delesseriaceae); ZHE GU CAI; Leprieur Caloglossa Frond. Used part: frond. TCM Effects: To expel roundworm. TCM Indications: Ascariasis. Isolated compounds: 936, 3585.
- T1123 *Calophyllum austroindium* (Clusiaceae). Isolated compounds: 2989, 21122.
- T1124 *Calophyllum blancoi* (Clusiaceae). Isolated compounds: 335, 1470, 1471, 1472, 2997, 9857, 11086, 11230, 11231, 11232, 11645, 18251, 18562.
- T1125 *Calophyllum brasiliense* (Clusiaceae); BA XI HU TONG; Brazilian Calaba. Isolated compounds: 2590, 2591, 2592, 2593, 6011, 11262, 11263, 11264, 11808.
- T1126 *Calophyllum caledonicum* (Clusiaceae); SU GE LAN HU TONG; Caledonian Beautyleaf*. Isolated compounds: 1470, 2961, 2962, 2963, 2988, 3001, 5844, 6181, 10463, 10464, 10831, 10832, 11230, 11303, 13808, 21790.
- T1127 *Calophyllum cordato-oblongum* (Clusiaceae); CHANG YUAN XIN XING HU TONG; Cordate-oblong Beautyleaf*. Isolated compounds: 4038, 11341.
- T1128 *Calophyllum dispar* (Clusiaceae); BU DENG HONG HOU KE; Disparate Beautyleaf*. Isolated compounds: 6513, 6514, 6515, 6516, 11380, 13465, 13466.
- T1129 *Calophyllum inophyllum* (Clusiaceae); HAI TANG GUO; Kalofilum. Used part: root and leaf. TCM Effects: To dispel stasis and relieve pain. TCM Indications: Wind-damp pain, knocks and falls, dysmenorrhea, bleeding due to external injury. Isolated compounds: 2590, 2694, 2945, 2989, 2990, 2991, 2998, 2999, 3000, 5184, 5184, 6181, 7951, 9857, 11064, 11065, 11066, 11070, 11071, 11072, 11073, 11074, 11075, 11076, 11077, 11078, 11079, 11080, 11086, 11464, 11808, 13809, 17718.
- T1130 *Calophyllum polyanthum* (Clusiaceae); DIAN NAN HONG HOU KE; S. Yunnan Beautyleaf. Used part: Seed. Isolated compounds: 2942, 2992, 2993, 2994, 2995, 4680, 5763, 5963, 6202, 8095, 10382, 16209, 19983, 22270.
- T1131 *Calophyllum* sp. (Clusiaceae). Isolated compounds: 11808.
- T1132 *Calophyllum* spp. (Clusiaceae). Isolated compounds: 6181.
- T1133 *Calophyllum teysmannii* (Clusiaceae); TE SI MAN NI HU TONG; Teysmanni Beautyleaf*. Isolated compounds: 20109.
- T1134 *Calophyllum teysmannii* var. *inophylloide* (Clusiaceae); TE SI MAN

- NI HU TONG BIAN ZHONG; Teysmanni Beautyleaf Variaty*. Isolated compounds: 3163, 10757, 10805, 10806, 12607, 19567, 21232, 21937.
- T1135 *Calophyllum tomentosum* (Clusiaceae); RONG MAO HU TONG; Tomentose Calaba. Isolated compounds: 21438, 21439.
- T1136 *Calotropis procera* (Asclepiadaceae); CHANG NIU JIAO GUA; Long Calotrope*. Isolated compounds: 17870, 22280.
- T1137 *Caltha palustris* (Ranunculaceae); MA TI YE; Common Marshmarigold. Used part: whole herb. TCM Effects: To expel wind, resolve summerheat, quicken blood and disperse swelling. TCM Indications: Wind damage common cold, summerheat stroke with sand, knocks and falls, burns and scalds. Isolated compounds: 1178, 1179, 4123, 4293, 4680, 9259, 9276, 9330, 13374, 15477, 15527, 16576, 19542, 19983, 22195.
- T1138 *Caltha polypetala* (Ranunculaceae); DUO BAN LV TI CAO; Manypetal Marshmarigold. Isolated compounds: 8067, 8068.
- T1139 *Calycanthus floridus* (Calycanthaceae); MEI GUO XIA LA MEI; Carolina Allspice. Isolated compounds: 3002, 7481.
- T1140 *Calycanthus occidentalis* (Calycanthaceae); JIA ZHOU XIA LA MEI; Californian Allspice. Isolated compounds: 3002.
- T1141 *Calycophyllum spruceanum* (Rubiaceae). Isolated compounds: 376, 5477, 13905, 19636, 21376.
- T1142 *Calycopteris floribunda* (Combretaceae); E CHI TENG. Isolated compounds: 3003, 3008, 3009, 5051, 6871, 6872.
- T1143 *Calystegia hederacea* (Convolvulaceae); MIAN GEN TENG; Ivy Glorybind. Used part: herb or root. TCM Effects: To fortify spleen, disinherit damp, regulate menstruation. TCM Indications: Strangury, vaginal discharge, menstrual disorder, child *gan* accumulation. Isolated compounds: 3939.
- T1144 *Camassia leichtlinii* (Liliaceae). Isolated compounds: 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10717, 10718, 10719, 10720, 10721.
- T1145 *Camellia japonica* (Theaceae); SHAN CHA; Japanese Camellia. Used part: flower. TCM Effects: To cool blood and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, bleeding from hemorrhoids, red and white dysentery, flooding, blood strangury, vaginal discharge, scalds, knocks and falls. Isolated compounds: 3036, 3037, 6853, 13546, 16765, 20910.
- T1146 *Camellia oleifera* (Theaceae); CHA ZI XIN; Oiltea Camellia. Used part: seed. TCM Effects: To soothe stagnation and move *qi*. TCM Indications: *Qi* stagnation with abdominal pain and diarrhea, itchy skin, burns and scalds. Isolated compounds: 2151, 3030, 3031, 3032, 3033, 3034, 8769, 10096, 21281.
- T1147 *Camellia oleifera* (Theaceae); YOU CHA GEN PI; Oiltea Camellia Root-bark. Used part: root cortex. TCM Effects: To dissipate stasis and disperse swelling, quicken blood and joint bones. TCM Indications: Fracture, sprain and contusion, abdominal pain, itchy skin, burns and scalds. Isolated compounds: 8769, 21281.
- T1148 *Camellia saluenensis* (Theaceae); NU JIANG SHAN CHA; Salwin Camellia. Used part: leaf and tender gemma. TCM Effects: To clear heat and disinherit urine. Isolated compounds: 19199.
- T1149 *Camellia sasanqua* (Theaceae); CHA MEI; Sasanqua Camellia. Isolated compounds: 10096.
- T1150 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA HUA; Tea Flower. Used part: flower. TCM Effects: To clear lung and calm liver. TCM Indications: *Gan* of nose, hypertension. Isolated compounds: 17617.
- T1151 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA SHU GEN; Tea Root. Used part: root. TCM Effects: To strengthen heart and disinherit urine, quicken blood and regulate menstruation, clear heat and resolve toxin. TCM Indications: Edema due to heart disease, hepatitis, dysmenorrhea, toxin swelling of sores, mouth sore, burns and scalds, zoster, psoriasis. Isolated compounds: 2892, 7807, 7820.
- T1152 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA YE; Common Tea. Used part: tender leaf or tender bud. TCM Effects: To clear head and eyes, eliminate vexation and allay thirst, disperse food, transform phlegm, disinherit urine, resolve toxin. TCM Indications: Headache, dim vision, red eyes, desire to sleep, common cold, vexation and thirst, food accumulation, bad breath, phlegm asthma, epilepsy, inhibited urination, diarrhea, throat swelling, swelling of sores and boils, burns and scalds. Isolated compounds: 2285, 2892, 3035, 3038, 3039, 3308, 3551, 3761, 4439, 5018, 5022, 5608, 6384, 6853, 6864, 6921, 6922, 6923, 8025, 8098, 9413, 9414, 9416, 9417, 9526, 11025, 11642, 11740, 11824, 12203, 14649, 14671, 15963, 17100, 17115, 18274, 19185, 20995, 21282, 21290, 21291, 21310, 21312, 21949, 21966, 22756.
- T1153 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA ZI; Tea Seed. Used part: seed. TCM Effects: To downbear fire, transform phlegm and calm asthma. TCM Indications: Phlegm-heat cough, ringing in head. Isolated compounds: 21281, 21283, 21284, 21285, 21286, 21287, 21288, 21289.
- T1154 *Camellia sinensis* var. *assamica* (Theaceae); PU ER CHA; Assam Tea. Used part: leaf. TCM Effects: To engender liquid and allay thirst, expel phlegm and precipitate *qi*. TCM Indications: Sand *qi* abdominal pain, cholera, dysentery. Isolated compounds: 1235, 1236, 1237, 1915, 1916, 1917, 1918, 1919, 1920, 5243, 7832, 15279, 17884, 22061, 22062, 22063.
- T1155 *Camellia sinensis* var. *viridis* (Theaceae); WU LONG CHA; Oolong Tea. Isolated compounds: 16124, 16125, 21280.
- T1156 *Campanula medium* (Campanulaceae); FENG LING CAO; Canterburybells. Isolated compounds: 12939.
- T1157 *Campanula rotundifolia* (Campanulaceae); YUAN YE FENG LING CAO; Harebell. Isolated compounds: 21644.
- T1158 *Campanula* sp. (Campanulaceae). Isolated compounds: 7944.
- T1159 *Campomanesia lineatifolia* (Myrtaceae); Champa; Palillo (in local names). Isolated compounds: 3472, 3473, 3474.
- T1160 *Campsis grandiflora* (Bignoniaceae); ZI WEI; Chinese Trumpetreeper. Used part: flower. TCM Effects: To clear heat and cool blood, transform stasis and dissipate binds, dispel wind and relieve itch. TCM Indications: Blood stagnation and menstrual block, dysmenorrhea, concretion and conglomeration, flooding and spotting, wind papule itching due to blood heat, urticari with sore and scab, brandy nose. Isolated compounds: 1476, 16050.
- T1161 *Campsis grandiflora* (Bignoniaceae); ZI WEI JING YE; Chinese Trumpetreeper Stem-leaf. Used part: stem-leaf. TCM Effects: To clear heat, cool blood, dissipate stasis. TCM Indications: Wind due to blood heat, itchy body, wind papules, limp aching numbness in limbs,

- swelling pain in throat. Isolated compounds: 2839, 2840, 2841, 2842, 9878, 15284, 20897.
- T1162 *Camptotheca acuminata* (Nyssaceae); XI SHU; Common Camptothec. Used part: fruit or root. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse concretion, anticancer. TCM Indications: Acute leukemia, chronic leukemia, psoriasis, swollen liver and spleen due to bilharziosis, carcinoma of esophagus, carcinoma of cardia, carcinoma of intestine, carcinoma of liver, carcinoma of stomach, swelling of sores. Isolated compounds: 341, 1935, 2334, 3053, 5157, 7896, 7971, 8291, 8667, 9882, 9883, 10887, 11642, 13831, 13863, 13864, 14139, 14365, 14366, 14377, 15880, 18199, 18317, 20391, 21634, 21955, 21961, 22496.
Campylandra wattii = *Tupistra wattii*
- T1163 *Campylotropis hirtella* (Fabaceae); MAO HANG ZI SHAO; Hairy Clovershrub. Used part: root. TCM Effects: To quicken blood and regulate menstruation, rectify *qi* and relieve pain, clear heat and disinherit damp. TCM Indications: Menstrual disorder, amenorrhea, dysmenorrhea, vaginal discharge, dysentery, pain in stomach duct, bleeding due to external injury, yellow-water sore, burns and scalds. Isolated compounds: 17869, 17876, 17888, 17893.
- T1164 *Cananga odorata* (Annonaceae); YI LAN; Fragrant Gananga. Isolated compounds: 3060, 4284, 7515, 7516, 11421, 11690, 22920.
- T1165 *Canarium album* (Burseraceae); QING GUO; Olive. Used part: fruit. TCM Effects: To clear heat, disinherit throat, engender liquid, resolve toxin. TCM Indications: Swelling pain in throat, cough, vexation and thirst, poisoning of fish or crab. Isolated compounds: 1110, 2602, 3231, 7481, 8095, 16039, 22265, 22266.
- T1166 *Canarium commune* (Burseraceae); ZHAO WA GAN LAN; Java Almond Canary-tree. Isolated compounds: 6745.
- T1167 *Canarium* sp. (Burseraceae). Isolated compounds: 20711.
- T1168 *Canavalia ensiformis* (Fabaceae); YANG DAO DOU; Sword-bean. Used part: seed. TCM Effects: See *Canavalia gladiata*. TCM Indications: See *Canavalia gladiata*. Isolated compounds: 3059, 3063, 13103.
- T1169 *Canavalia gladiata* (Fabaceae); DAO DOU; Sword Jackbean. Equivalent plant: *Canavalia ensiformis*. Used part: seed. TCM Effects: To warm center, precipitate *qi*, check hiccups. TCM Indications: Vacuity cold and hiccough, vomiting. Isolated compounds: 1045, 1054, 3059, 3061, 3062, 9620.
- T1170 *Canis familiaris* (Canidae); GOU ROU; Dog Meat. Used part: meat. TCM Effects: To supplement spleen and warm stomach, warm kidney and invigorate *yang*, replenish essence. TCM Indications: Distention fullness in stomach duct and abdomen, edema, lumbago and limp leg, impotence, cold malaria, enduring vanquished sore. Isolated compounds: 3205, 4221.
- T1171 *Canis familiaris* (Canidae); GOU XIN; Dog Heart. Used part: heart. TCM Effects: To quiet spirit, dispel wind, stanch bleeding, resolve toxin. TCM Indications: Wind impediment, *qi* depression, nosebleed (epistaxis), sore in lower body. Isolated compounds: 4221.
- T1172 *Canna edulis* (Cannaceae); JIAO YU; Edible Canna. Used part: Rhizome. TCM Effects: To clear heat, resolve toxin, disinherit damp. TCM Indications: Dysentery, diarrhea, jaundice, swelling toxin of welling abscess and sore. Isolated compounds: 4157, 5441.
- T1173 *Cannabis sativa* (Moraceae); HUO MA REN; Hemp Fimble Seed. Used part: ripe seed. TCM Effects: To moisten dryness, lubricate intestines, free stool. TCM Indications: Blood and liquid depletion, intestinal dry and constipation. Isolated compounds: 3077, 3079, 3082, 7788, 15126, 20988, 21059, 21060, 21662, 22975.
- T1174 *Cannabis sativa* (Moraceae); MA GEN; Hemp Fimble Root. Used part: root. TCM Effects: To dissipate stasis, stanch bleeding, disinherit urine. TCM Indications: Knocks and falls, difficult delivery, retention of placenta, flooding, strangury syndrome, vaginal discharge. Isolated compounds: 1262, 15516, 20347, 20350, 20353, 20354.
- T1175 *Cannabis sativa* (Moraceae); MA HUA; Hemp Fimble Flower*. Used part: male-flower. TCM Effects: To dispel wind, quicken blood, engender hairs. TCM Indications: Numbness in limbs, itchy body, shedding of eyebrow and hair, amenorrhea. Isolated compounds: 3079, 3080, 3081, 3082, 7521, 12853, 15125, 17450, 19680, 19681, 21058, 21059, 21662.
- T1176 *Cannabis sativa* (Moraceae); MA YE; Hemp Fimble Leaf. Used part: leaf. TCM Effects: To interrupt malaria, expel roundworm, settle asthma. TCM Indications: Malaria, asthma, ascariasis. Isolated compounds: 342, 402, 1262, 3078, 3080, 3083, 21060.
- T1177 *Cannabis sativa* var. *indica* (Moraceae); YIN DU DA MA; Indian Hemp*. Isolated compounds: 3079, 3080.
- T1178 *Canthium berberidifolium* (Rubiaceae); SI XIAO BO SHUANG YE YU GU MU; Barberry-like-dileaf Canthium. Isolated compounds: 1516, 3099, 3100, 3101, 3102.
- T1179 *Capparis masaikai* (Capparidaceae); MA BING LANG; Masaikai Caper. Used part: seed. TCM Effects: To clear heat and resolve toxin, engender liquid and allay thirst, hasten delivery or stop delivery. TCM Indications: Cold damage febrile disease, summerheat-heat and thirst, laryngitis, throat pain, food stagnation distention and fullness, measles papules swelling toxin. Isolated compounds: 10103, 16286.
- T1180 *Capparis spinosa* (Capparidaceae); LAO SHU GUA; Common Caper. Used part: root cortex, leaf and fruit. TCM Effects: To dispel wind, dissipate cold, eliminate damp. TCM Indications: Acute rheumatic arthritis, chronic rheumatic arthritis. Isolated compounds: 3136, 3137, 4035, 7768, 19912, 20173, 20174, 20254.
- T1181 *Capra hircus*; *Ovis aries* (Bovidae); YANG PI; Goat Hide. Used part: hide. TCM Effects: To supplement vacuity, dispel stasis, disperse swelling. TCM Indications: Vacuity taxation with emaciation and weakness, painful swelling from knocks and falls, bleeding due to tympanites. Isolated compounds: 13659.
- T1182 *Capra hircus*; *Ovis aries* (Bovidae); YANG RU; Goat Milk. Used part: milk. TCM Effects: To supplement vacuity, moisten dryness, harmonize stomach, resolve toxin. TCM Indications: Vacuity taxation with emaciation and weakness, diabetes mellitus, heartache, stomach reflux, vomiting, mouth sore, lacquer sore, spider bite. Isolated compounds: 6544, 15528.
- T1183 *Capra hircus*; *Ovis aries* (Bovidae); YANG YI; Goat Pancreas. Used part: pancreas. TCM Effects: To moisten lung and relieve cough, moisten skin, check discharge. TCM Indications: Lung heat enduring cough, Vaginal discharge. Isolated compounds: 11083, 11084, 11085.
- T1184 *Capsella bursa-pastoris* (Brassicaceae); JI CAI; Shepherdspurse. Used part: whole herb with root. TCM Effects: To cool liver and stanch

- bleeding, calm liver and brighten eyes, clear heat and disinhibit damp. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematuria, flooding and spotting, red eyes with gall, eyeground hemorrhage, hypertension, red and white dysentery, nephritis with edema, chyluria. Isolated compounds: 351, 645, 5613, 5614, 6454, 6632, 7996, 8963, 9458, 12015, 13149, 18281, 18857, 19935, 20467, 22158.
- T1185 *Capsella bursa-pastoris* (Brassicaceae); JI CAI ZI; Shepherdspurse Seed. Used part: seed. TCM Effects: To dispel wind and brighten eyes. TCM Indications: Eye pain, eye screen, clear-eye blindness. Isolated compounds: 6454.
- T1186 *Capsicum annuum* (Solanaceae); HONG HAI JIAO; Sweet Pepper. Equivalent plant: *Capsicum frutescens*. Used part: fruit. TCM Effects: To warm center and dissipate cold, precipitate *qi* and disperse food. TCM Indications: Stomach cold and *qi* stagnation, distending pain in stomach duct, vomiting, diarrhea, wind-damp pain, frostbite. Isolated compounds: 1358, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3141, 3142, 3145, 3146, 3209, 3210, 4188, 4189, 4293, 5158, 5472, 5588, 6607, 7788, 7789, 7790, 9599, 9603, 9888, 9889, 12520, 13017, 13139, 15477, 15740, 18281, 22976.
- T1187 *Capsicum frutescens* (Solanaceae); LA JIAO; Bush Redpepper. Used part: fruit. TCM Effects: See *Capsicum annuum*. TCM Indications: See *Capsicum annuum*. Isolated compounds: 3141, 3142, 3144, 3145, 3209, 4858, 5553, 15702, 15740, 20044, 20056, 20066, 20069.
- T1188 *Caragana chamlagu* (Fabaceae); JIN JI ER; Peashrub*. Used part: flower. TCM Effects: To fortify spleen and boost kidney, harmonize blood and dispel wind, resolve toxin. TCM Indications: Vacuity taxation cough, dizzy head and tinnitus, limp aching lumbus and knees, *qi* vacuity, vaginal discharge, child *gan* accumulation, pox without coming out, mammary welling abscess, pain wind, knocks and falls. Isolated compounds: 22504.
- T1189 *Caragana intermedia* (Fabaceae); ZHONG JIAN JIN JI ER; Intermediate Peashrub. Used part: whole herb. TCM Effects: To enrich *yin* and supplement blood, quicken blood. TCM Indications: Menstrual disorder [= menoxenia]. Isolated compounds: 6909, 7504, 7505, 7506, 7507, 10109, 21731, 21981.
- T1190 *Caragana jubata* (Fabaceae); GUI JIAN JIN JI ER; Shagspine Peashrub. Used part: root, branch-leaf. TCM Effects: To clear heat and resolve toxin, lower blood pressure. TCM Indications: Mammary welling abscess, swelling toxin of sore and boil, hypertension. Isolated compounds: 2843, 11652, 11663, 15170, 15184, 18379, 18407.
- T1191 *Caragana sinica* (Fabaceae); JIN QUE GEN; Chinese Peashrub Root. Used part: root and root cortex. TCM Effects: To supplement lung and boost spleen, dispel wind and quicken blood. TCM Indications: Vacuity taxation, lung vacuity enduring cough, flooding, vaginal discharge, scant breast milk, wind-damp bone pain, pain wind, hemiplegia, hypertension, knocks and falls. Isolated compounds: 3434, 4680, 10420, 16550.
- T1192 *Caragana stenophylla* (Fabaceae); XIA YE JIN JI ER; Narrowleaf Peashrub. Isolated compounds: 3149, 12239, 14892, 22504.
- T1193 *Caragana tibetica* (Fabaceae); MAO CI JIN JI ER; Tibet Peasshrub. Isolated compounds: 3289, 3291, 11672, 12258, 17278, 18643, 19394, 19531, 19532, 20556, 21369.
- T1194 *Carassius auratus* (Cyprinidae); JIN YU; Crucian Carp. Used part: meat or body. TCM Effects: To clear heat, disinhibit water, resolve toxin. TCM Indications: Cough, jaundice, ascites ulcer. Isolated compounds: 653, 1921, 2393, 3095, 6190, 6560, 9853, 11784, 11785, 11806, 12201, 13126, 15708, 18530, 22772, 22976.
- T1195 *Cardaria draba* (Brassicaceae); QUN XIN CAI; Common Cardaria. Isolated compounds: 7323, 14728.
- T1196 *Cardiospermum grandiflorum* (Sapindaceae); DA HUA DAO DI LING; Bigflower Heartseed*. Isolated compounds: 3190.
- T1197 *Cardiospermum halicacabum* (Sapindaceae); JIA KU GUA; Balloonvine Heartseed. Used part: whole herb. TCM Effects: To clear heat and disinhibit water, cool blood and resolve toxin. TCM Indications: Jaundice, strangury, clove sore, vesicle sore, scab and *lai*, snake bite. Isolated compounds: 4453, 4454.
- T1198 *Cardiospermum hirsutum* (Sapindaceae); MAO DAO DI LING; Hairy Heartseed*. Isolated compounds: 3190.
- T1199 *Carduus acanthoides* (Asteraceae); JIE MAO FEI LIAN; Welled Thistle. Used part: root or whole herb. TCM Effects: See *Carduus crispus*. TCM Indications: See *Carduus crispus*. Isolated compounds: 80.
- T1200 *Carduus crispus* (Asteraceae); FEI LIAN; Curly Bristlethistle. Equivalent plant: *Carduus acanthoides*. Used part: root or whole herb. TCM Effects: To dispel wind, clear heat, disinhibit damp, cool blood and stanch bleeding, quicken blood and disperse swelling. TCM Indications: Common cold with cough, headache and dizziness, infection of urinary system, chyluria, vaginal discharge, jaundice, wind-heat impediment pain, blood ejection, spontaneous external bleeding, hematuria, profuse menstruation, dysfunctional uterine bleeding, knocks and falls, clove sore and swollen boil, toxin swelling from hemorrhoids, scalds. Isolated compounds: 80, 81.
- T1201 *Carex fedia* var. *miyabei* (Cyperaceae). Isolated compounds: 14892.
- T1202 *Carex kobomugi* (Cyperaceae); SHA ZUAN TAI CAO; Sieve Sedge. Used part: fruit. TCM Effects: To fortify spleen and boost *qi*, downbear counterflow and check vomiting. TCM Indications: Spleen-stomach vacuity, vomiting and hiccough. Isolated compounds: 12239.
- T1203 *Carex pendula* (Cyperaceae); XIA CHUI TAI CAO; Drooping Sedge*. Isolated compounds: 12240, 14890, 14891.
- T1204 *Careya arborea* KA LI YU RUI. Isolated compounds: 3193.
- T1205 *Carica papaya* (Caricaceae); FAN MU GUA; Papaya Fruit. Used part: fruit. TCM Effects: To disperse food and promote lactation, dispel damp and free network vessels, resolve toxin and kill worms. TCM Indications: Stomachache, dysentery, inhibited urine and stool, wind impediment, foot rot. Isolated compounds: 1358, 2294, 3209, 3210, 3214, 3215, 3218, 4293, 4294, 8760, 15135, 17263, 17264, 19650, 22520.
- T1206 *Carica papaya* (Caricaceae); FAN MU GUA YE; Papaya Leaf. Used part: leaf. TCM Effects: To resolve toxin, joint bones. TCM Indications: Toxin swelling of sores, fracture. Isolated compounds: 18022.
- T1207 *Carissa edulis* (Apocynaceae); AI JI JIA HU CI; Egyptian Carissa. Isolated compounds: 15806.
- T1208 *Carlina acaulis* (Asteraceae); CHAO XIAN JI; Stemless Carline

- Thistle. Isolated compounds: 3200.
- T1209 *Carnegiea gigantea* (Cactaceae); JU REN ZHU. Isolated compounds: 16746.
- T1210 *Carpesium abrotanoides* (Asteraceae); TIAN MING JING; Common Carpesium. Used part: root, stem-leaf. TCM Effects: To clear heat, transform phlegm, resolve toxin, kill worms, break stasis, stanch bleeding. TCM Indications: Nipple moth, throat impediment, acute fright wind, chronic fright wind, toothache, swelling toxin of clove sore, hemorrhoids and fistulas, Itchy papules, poisonous snake bite, worm accumulation, blood conglomeration, blood ejection, spontaneous external bleeding, blood strangury, bleeding due to external injury. Isolated compounds: 2850, 3147, 3220, 3241, 3242, 8313, 8313, 8982, 11468, 11796, 20369, 20906, 20988.
- T1211 *Carpesium abrotanoides* (Asteraceae); TIAN MING JING GUO; Common Carpesium Fruit. Used part: fruit. TCM Effects: To kill worms. TCM Indications: Ascariasis, oxyuria disease, ancylostomiasis, taeniasis, child *gan* accumulation. Isolated compounds: 3147, 3220.
- T1212 *Carpesium eximium* (Asteraceae); DA HUA JIN WA ER; Bigflower Carpesium*. Used part: whole herb or root cortex. TCM Effects: To cool blood and stanch bleeding, dispel stasis. TCM Indications: Bleeding due to external injury, knocks and falls. Isolated compounds: 3147.
- T1213 *Carpesium longifolium* (Asteraceae); CHANG YE TIAN MING JING; Longleaf Carpesium. Isolated compounds: 191, 5498, 5648, 5689, 7147, 10020, 11203, 14828, 16675, 19983.
- T1214 *Carpesium triste* var. *manshuricum* (Asteraceae); DONG BEI AN HUA JIN WA ER; Northeast Dim-flower Carpesium*. Isolated compounds: 7074, 7076.
- T1215 *Carthamus tinctorius* (Asteraceae); HONG HUA; Safflower. Used part: flower. TCM Effects: To quicken blood and free menstruation, dissipate stasis and relieve pain. TCM Indications: Amenorrhea, dysmenorrhea, retention of lochia, angina pectoris, cerebral thrombosis, neurodermatitis, concretion and conglomeration, lump glomus, knocks and falls, swollen pain due to bleeding. Isolated compounds: 618, 1598, 2228, 3223, 3224, 3225, 3226, 3844, 4966, 6101, 9385, 9486, 9493, 9515, 9516, 10273, 10684, 11754, 12020, 12569, 12891, 12893, 15203, 15358, 15660, 15662, 16108, 16109, 17090, 17771, 17915, 18317, 18833, 19087, 19110, 19111, 19122, 19983, 20280, 21415, 21604, 21605, 21607, 21613, 21614, 21615, 21617, 21618, 21619, 21620, 21919.
- T1216 *Carum ajowan* (Apiaceae); YIN DU ZANG HUI XIANG; India Caraway*. Isolated compounds: 5154, 5171, 6093, 10039, 10378, 10763, 10764, 13761, 13762, 13767.
- T1217 *Carum carvi* (Apiaceae); GE LU ZI; Caraway. Used part: fruit. TCM Effects: To rectify *qi* and promote digestion, dissipate cold and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, retching counterflow, indigestion, mounting *qi*, cold stagnation lumbago. Isolated compounds: 3237, 5809, 5810, 7975, 9896, 11964, 12843, 13729, 13730, 13731, 13732, 13733, 13734, 13735, 13736, 13737, 13738, 13752, 13754, 13763, 13966, 16927.
- T1218 *Carya illinoensis* (Juglandaceae); MEI GUO SHAN HE TAO; Pecan. Isolated compounds: 11903.
- T1219 *Carya ovata* (Juglandaceae); CU PI SHAN HE TAO; Shagbark Hickory. Isolated compounds: 11903.
- T1220 *Caryopteris clandonensis* (Verbenaceae); ZA JIAO YOU⁽²⁾; Hybrid Bluebeard*. Isolated compounds: 356, 3785, 3786, 3787, 6818.
- T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard. Isolated compounds: 3246.
- T1222 *Caryopteris glutinosa* (Verbenaceae); NIAN YE YOU⁽²⁾; Glutinous Bluebeard. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin. Isolated compounds: 8787.
- T1223 *Casearia guianensis* (Flacourtiaceae). Isolated compounds: 3269, 3270, 3272, 3273.
- T1224 *Casearia membranacea* (Flacourtiaceae); MO ZHI JIAO GU CUI; Membranous Casearia*. Isolated compounds: 1367, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3271, 3274, 5297, 7788, 7789, 7951, 14484, 19981, 19983, 19985, 20237, 20356, 20362, 20363, 20554, 22332.
- T1225 *Casearia sylvestris* var. *lingua* (Flacourtiaceae); SHE XING LIN SHENG JIAO GU CUI; Lingual Forest-in Casearia*. Isolated compounds: 184, 3258.
- T1226 *Casimiroa edulis* (Rutaceae); XIANG ROU GUO; Edible Casimiroa. Isolated compounds: 3275, 16559.
- T1227 *Casimiroa tetrameria* (Rutaceae); SI JI XIANG ROU GUO; Tetrabase Casimiroa*. Isolated compounds: 9508, 13963, 16868.
- T1228 *Cassia absus* (Fabaceae); A SU JUE MING; Absus Senna*. Isolated compounds: 3452.
- T1229 *Cassia acutifolia* (Fabaceae); JIAN YE FAN XIE YE; Sharpleaf Senna Leaf. Used part: leaf. TCM Effects: See *Cassia angustifolia*. TCM Indications: See *Cassia angustifolia*. Isolated compounds: 967, 3615, 6368, 12020, 17247, 18759, 19749, 19750, 19751, 19752.
- T1230 *Cassia angustifolia* (Fabaceae); FAN XIE YE; Narrowleaf Senna Leaf. Equivalent plant: *Cassia acutifolia*. Used part: leaf. TCM Effects: To drain heat and move stagnation, free stool, disinherit water. TCM Indications: Heat bind and accumulation, constipation with abdominal pain, edema distention fullness. Isolated compounds: 968, 3615, 12020, 17247, 18759, 19749, 19750, 19751, 19752.
- T1231 *Cassia dentata* (Fabaceae); CHI CHI JUE MING; Toothwing Senna*. Isolated compounds: 18643.
- T1232 *Cassia fistula* (Fabaceae); PO LUO MEN ZAO JIA; Goldenshower Senna Fruit. Used part: fruit. TCM Effects: To clear heat and free stool, transform stagnation and relieve pain. TCM Indications: Heat wind in heart and diaphragm, steaming bone fever and chills, three worms. Isolated compounds: 2289, 2291, 3615, 3620, 7804, 10205, 10218, 10493, 10603, 17869.
- T1233 *Cassia garrettiana* (Fabaceae); JIA LEI JUE MING; Garretti Senna*. Isolated compounds: 3285, 3286, 3287, 3288, 3289, 3290, 3291, 17968.
- T1234 *Cassia italika* (Fabaceae); YI DA LI JUE MING ZI; Italian Senna*. Isolated compounds: 6016.
- T1235 *Cassia kleinii* (Fabaceae); KE LEI NI JUE MING; Kleini Senna*. Isolated compounds: 12233, 12234, 12235, 12236.
- T1236 *Cassia laevigata* [Syn. *Cassia floribunda*] (Fabaceae); GUANG YE JUE MING; Nitidleaf Senna*. Used part: root and leaf. TCM Effects: To clear liver and brighten eyes, free stool. TCM Indications: Common cold with fever, liver heat and red eyes, eye screen,

- constipation. Isolated compounds: 8054.
- T1237 *Cassia leptophylla* (Fabaceae); XIA YE JUE MING; Narrowleaf Senna*. Isolated compounds: 20141.
- T1238 *Cassia mimosoides* (Fabaceae); SHAN BIAN DOU ZI; Sensitiveplant-like Senna. Used part: seed. TCM Effects: To clear heat and resolve toxin, fortify spleen and disinhibit damp, free stool. TCM Indications: Jaundice, summerheat-heat and vomiting diarrhea, child *gan* accumulation, edema, inhibited urination, habitual constipation, poisonous snake bite. Isolated compounds: 967, 3615, 18759.
- T1239 *Cassia nodosa* (Fabaceae); SHEN HUANG DOU; Jointwood Senna. Used part: fruit. TCM Effects: To resolve toxin. TCM Indications: Papules, pox. Isolated compounds: 2064, 15651, 15654.
- T1240 *Cassia obtusifolia* (Fabaceae); DUN YE JUE MING; Obtuseleaf Senna*. Equivalent plant: *Cassia tora*. Used part: ripe seed. TCM Effects: To clear liver and brighten eyes, disinhibit water and free stool. TCM Indications: Red eyes with gall, delacrimation and photophobia, clear-eye blindness, night blindness, dizziness and headache, dim vision, cirrhosis with ascites, inhibited urination, habitual constipation, toxin swelling, skin lichen. Isolated compounds: 967, 2009, 3613, 3615, 6776, 8649, 8696, 11744, 17247, 21459.
- T1241 *Cassia occidentalis* (Fabaceae); WANG JIANG NAN; Coffee Senna. Used part: stem-leaf. TCM Effects: To clear lung, clear liver, calm asthma, disinhibit urine, free stool, resolve toxin and disperse swelling, lower blood pressure. TCM Indications: Cough and asthma, hypertension, headache and red eyes, dribbling urination, constipation, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 967, 3281, 3282, 3283, 3599, 3615, 6776, 9333, 9791, 15914, 15915, 19933.
- T1242 *Cassia occidentalis* (Fabaceae); WANG JIANG NAN ZI; Coffee Senna Seed. Used part: seed. TCM Effects: To clear liver, fortify stomach, free stool, resolve toxin. TCM Indications: Red eyes with gall, dizzy and distended head, indigestion, stomachache, dysentery, constipation, swollen welling abscess and toxin of clove. Isolated compounds: 967, 6776, 17247.
- T1243 *Cassia quinquangula* (Fabaceae); WU LENG JUE MING; Fiveangular Senna*. Isolated compounds: 18444, 19041.
- T1244 *Cassia siamea* (Fabaceae); TIE DAO MU; Siamese Senna. Isolated compounds: 3598, 3615, 14521.
- T1245 *Cassia sieberiana* (Fabaceae); XI BO JUE MING; Sieber Senna. Isolated compounds: 6819.
- T1246 *Cassia singueana* (Fabaceae); DONG FEI JUE MING; East-African Senna*. Isolated compounds: 19933, 19934.
- T1247 *Cassia sophera* (Fabaceae); JIANG MANG; Inflatedfruit Senna. Used part: seed. TCM Effects: To dispel phlegm and allay thirst, regulate center. TCM Indications: Red eyes with gall, dizzy and distended head, oral ulcer, habitual constipation, child *gan* accumulation, dysentery, malaria. Isolated compounds: 4879.
- T1248 *Cassia* sp. (Fabaceae). Isolated compounds: 1282.
- T1249 *Cassia* spp. (Fabaceae). Isolated compounds: 3615.
- T1250 *Cassia tora* (Fabaceae); JUE MING ZI; Sickle Senna Seed. Used part: ripe seed. TCM Effects: See *Cassia obtusifolia*. TCM Indications: See *Cassia obtusifolia*. Isolated compounds: 967, 1514, 2008, 3284, 3598, 3612, 3613, 3615, 3617, 6776, 6777, 6779, 8644, 8645, 8649, 8696, 15791, 15900, 15908, 17247, 17250, 18759, 19041, 19042, 21452, 21455.
- T1251 *Cassytha filiformis* (Lauraceae); WU YE TENG; Filiform Cassytha. Used part: herb. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Common cold with fever, heat strangury, stone strangury, damp-heat jaundice, diarrhea, dysentery, hemoptysis, nosebleed(epistaxis), wind-fire eye, knocks and falls, bleeding due to external injury, ulcerating sores, burns and scalds, scab and *lai*. Isolated compounds: 585, 3293, 3295, 5417, 6632, 12574, 15431.
- T1252 *Cassytha glabella* (Lauraceae); WU MAO WU GEN TENG; Glabrous Cassytha*. Isolated compounds: 3294.
- T1253 *Cassytha melantha* (Lauraceae); HEI HUA WU GEN TENG; Blackflower Cassytha*. Isolated compounds: 3294.
- T1254 *Castanea mollissima* (Fagaceae); BAN LI; Chinese Chestnut. Used part: kernel. TCM Effects: To boost *qi* and fortify spleen, supplement kidney and strengthen sinews, quicken blood and disperse swelling, stanch bleeding. TCM Indications: Spleen vacuity diarrhea, stomach reflux vomiting, limp aching in legs and knees, sinew and bone wound with swelling pain, scrofula, blood ejection, spontaneous external bleeding, bloody stool. Isolated compounds: 3297, 3298, 11482, 19277, 20257, 20389, 22435.
- T1256 *Castanea mollissima* (Fagaceae); LI SHU PI; Chinese Chestnut Bast. Used part: bast. TCM Effects: To resolve toxin and disperse swelling, promote astriction and stanch bleeding. TCM Indications: Erysipelas, *lai*, mouth sore, lacquer sore, knocks and falls. Isolated compounds: 7441, 15372, 22246, 22435.
- T1255 *Castanea sativa* (Fagaceae); OU ZHOU LI; Spanish Chestnut. Isolated compounds: 9202.
- T1257 *Castilla elastica*. Isolated compounds: 9336, 16958, 16959.
- T1258 *Casuarina equisetifolia* (Casuarinaceae); MU MA HUANG; Horsetail Beefwood. Used part: tender branchlet-leaf or bark. TCM Effects: To diffuse lung and suppress cough, move *qi* and relieve pain, warm center and check diarrhea, disinhibit damp. TCM Indications: Common cold with fever, cough, mounting *qi*, abdominal pain, diarrhea, dysentery, inhibited urination, beriberi. Isolated compounds: 3040, 4149, 4150, 4155, 4156, 4177, 4178, 5571, 11642, 14454.
- T1259 *Casuarina stricta* (Casuarinaceae); XIAO MU MA HUANG; Small Beefwood*. Isolated compounds: 16765.
- T1260 *Catalpa bignonioides* (Bignoniaceae); MEI GUO ZI; Southern Catalpa. Isolated compounds: 3307.
- T1261 *Catalpa ovata* (Bignoniaceae); ZI BAI PI; Ovate Catalpa Bast. Used part: bast. TCM Effects: To clear heat and disinhibit damp, downbear counterflow and check vomiting, kill worms and relieve itch. TCM Indications: Damp-heat jaundice, sore and scab, eczema, itchy skin. Isolated compounds: 3307, 4135, 5188, 7768, 9455, 20566.
- T1262 *Catalpa ovata* (Bignoniaceae); ZI MU; Ovate Catalpa. Used part: wood. TCM Effects: To promote vomiting, relieve pain. TCM Indications: Pain wind in limbs, cholera. Isolated compounds: 2004, 3305, 3306, 12502, 15256, 15257, 15258, 15259, 15260, 15261.
- T1263 *Catalpa ovata* (Bignoniaceae); ZI SHI; Ovate Catalpa Fruit. Used part: fruit. TCM Effects: To disinhibit water and disperse edema. TCM Indications: Inhibited urination, edema, ascites. Isolated compounds:

- 3304, 3307.
- T1264 *Catalpa ovata* (Bignoniaceae); ZI YE; Ovate Catalpa Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Infant ardent fever, scab sore, itchy skin. Isolated compounds: 3307, 4152, 4153, 4171, 4172, 4173, 4174, 4175, 4176, 5767, 6363, 7446, 9821, 9828, 10443, 14497, 16277, 16281.
- T1265 *Catalpa speciosa* (Bignoniaceae); HUANG JIN SHU; Northern Catalpa. Isolated compounds: 3307.
- T1266 *Catha edulis* (Celastraceae); QIAO CHA; Khat. Used part: leaf. TCM Effects: To clear heat, resolve toxin, raise spirit, allay thirst. Isolated compounds: 3326, 3327, 15789, 17862.
- T1267 *Catharanthus lanceus* (Apocynaceae); JIAN ZHUANG CHANG CHUN HUA; Lanceolate Periwinkle*. Isolated compounds: 12734.
- T1268 *Catharanthus longifolius* (Apocynaceae); CHANG YE CHANG CHUN HUA; Longleaf Periwinkle*. Isolated compounds: 3321, 12734, 22498, 22499.
- T1269 *Catharanthus ovalis* (Apocynaceae); LUAN YUAN CHANG CHUN HUA; Oval Periwinkle*. Isolated compounds: 3321, 12734, 22491, 22498, 22499.
- T1270 *Catharanthus pusillus* (Apocynaceae); XI XIAO CHANG CHUN HUA; Slender Periwinkle*. Isolated compounds: 12734, 22498.
- T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (Apocynaceae); CHANG CHUN HUA; Madagascar Periwinkle. Used part: whole herb. TCM Effects: To resolve toxin, clear heat and calm liver, anticancer. TCM Indications: Hypertension, swelling toxin of welling abscess and sore, scalds. Isolated compounds: 618, 783, 823, 1002, 1111, 3320, 3321, 3322, 3323, 4080, 4709, 4943, 5716, 5737, 7839, 7840, 8905, 11083, 11084, 11085, 11489, 11718, 12732, 12733, 12734, 12944, 12945, 12946, 12947, 12950, 14889, 16921, 16966, 17555, 18073, 18918, 19762, 20000, 20503, 20564, 20578, 20580, 21055, 22486, 22487, 22488, 22489, 22490, 22491, 22493, 22497, 22498, 22499, 22500, 22501.
- T1272 *Caulerpa sertularioides* (Caulerpaceae); BANG YE JUE ZAO; Howe. Isolated compounds: 19776.
- T1273 *Caulophyllum* spp. (Berberidaceae). Isolated compounds: 12642.
- T1274 *Cayaponia tayuya* (Cucurbitaceae); TA YOU XIE GUA; Taiuia Root*. Isolated compounds: 4328, 5573.
- T1275 *Cayratia japonica* (Vitaceae); WU LIAN MEI; Japanese Cayratia. Used part: whole herb or root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Swollen welling abscess, clove sore, epidemic parotitis, erysipelas, wind-damp pain, jaundice, dysentery, hematuria, white turbidity. Isolated compounds: 3344, 9500.
- T1276 *Ceanothus integerrimus* (Rhamnaceae); QUAN YUAN YE MEI ZHOU CHA; Deerbrush. Isolated compounds: 11092.
- T1277 *Cedrela odorata* (Meliaceae); YAN YANG CHUN; Cigarbox Cedrela. Isolated compounds: 15992.
- T1278 *Cedrela sinensis* (Meliaceae); ZHONG GUO YANG CHUN; Chinese Cedrela*. Used part: leaf. TCM Effects: To dispel summerheat and transform damp, resolve toxin, kill worms. TCM Indications: Summerheat-damp and damage center, nausea and vomiting, inappetence, diarrhea, dysentery, swelling toxin of welling abscess and flat abscess, scabies, bald white scalp sore. Isolated compounds: 9927, 10544, 16301, 16397, 16398.
- T1279 *Cedrelopsis gracilis* (Pinaceae). Isolated compounds: 3347, 3348.
- T1280 *Cedrelopsis grevei* (Pinaceae). Isolated compounds: 2599, 3349, 14223, 15721, 19540.
- T1281 *Cedrus atlantica* (Pinaceae); BEI FEI XUE SONG; Atlas Cedar. Isolated compounds: 5284, 5295, 5313, 6897, 9747.
- T1282 *Cedrus deodara* (Pinaceae); XUE SONG; Deodar Cedar. Used part: leaf and wood. TCM Effects: To clear heat and disinhibit damp, stanch bleeding and dissipate stasis. TCM Indications: Dysentery, intestinal wind bleeding, edema, wind-damp impediment pain, leprosy. Isolated compounds: 932, 3394, 9541, 11315, 20987.
- T1283 *Cedrus* sp. (Pinaceae). Isolated compounds: 1074.
- T1284 *Ceiba pentandra* (Bombacaceae); JI BEI; Kapok Ceiba. Isolated compounds: 10798, 11452, 11454, 22358, 22359.
- T1285 *Celastrus angulatus* (Celastraceae); DIAO GAN MA; Angled Bittersweet. Used part: root or root cortex. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation, resolve toxin and kill worms. TCM Indications: Wind-damp impediment pain, swelling pain from fracture, amenorrhea, ulcerating sores, tinea capitis, pudendal itch. Isolated compounds: 3536, 3537, 5300, 5312, 9043, 12336, 12337, 12338, 12339, 15534, 15535, 15536, 15537, 16817, 21025, 21517, 21520, 21524, 21525, 21526.
- T1286 *Celastrus flagellaris* (Celastraceae); CI NAN SHE TENG; Hookedspine Bittersweet. Used part: root, fruit or stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, numbness in limbs, knocks and falls, amenorrhea, dysentery, welling abscess and flat abscess, poisonous snake bite. Isolated compounds: 3367, 3369, 9717.
- T1287 *Celastrus hypoleucus* (Celastraceae); MIAN TENG; Pale Bittersweet. Used part: root. TCM Effects: To transform stasis and disperse swelling. TCM Indications: Wound swelling from knocks and falls. Isolated compounds: 12018, 18387.
- T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG; Oriental Bittersweet. Used part: stem vine. TCM Effects: To dispel wind and eliminate damp, free menstruation and relieve pain, quicken blood and resolve toxin. TCM Indications: Painful joints due to rheumatism, numbness in limbs, paralysis, headache, toothache, mounting *qi* [=hernia], dysmenorrhea, menstrual block, infant fright wind, sprain from knocks and falls, dysentery, sand, zoster. Isolated compounds: 6819, 6853, 6865.
- T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG GEN; Oriental Bittersweet Root. Used part: root. TCM Effects: To dispel wind and overcome damp, move *qi* and dissipate blood, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, painful swelling from knocks and falls, amenorrhea, headache, lumbago, mounting *qi*, dysentery, intestinal wind bleeding, swelling toxin of welling abscess and flat abscess, burns and scalds, poisonous snake bite. Isolated compounds: 3362, 3363, 3364, 3365, 3366, 3368, 6766, 13090, 13095, 13096, 13623, 16027, 16045, 16162, 16163, 16164, 16165, 16166, 16167.
- T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG YE; Oriental Bittersweet Leaf. Used part: leaf.

- TCM Effects:** To dispel wind and eliminate damp, resolve toxin and disperse swelling, quicken blood and relieve pain. **TCM Indications:** Wind-damp impediment pain, swelling of sores and boils, zoster, eczema, knocks and falls, snake or insect bites. **Isolated compounds:** 6819, 12060, 12083, 18352, 18367.
- T1291 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG GUO; Oriental Bittersweet Fruit. **Used part:** fruit. **TCM Effects:** To nourish heart and quiet spirit, harmonize blood and relieve pain. **TCM Indications:** Palpitation and insomnia, amnesia and heavy dreams, toothache, pain in sinews and bones, numbness in lumbus and leg, painful wound from knocks and falls. **Isolated compounds:** 131, 132, 155, 292, 5285, 5292.
- T1292 *Celastrus paniculatus* (Celastraceae); DENG YOU TENG ZI; Panicled Bittersweet Seed. **Used part:** seed. **TCM Effects:** To dispel wind and relieve pain, free stool, promote vomiting. **TCM Indications:** Wind-damp impediment pain, constipation, food accumulation and distending pain in stomach duct. **Isolated compounds:** 3361, 5286, 13421, 13422, 21024, 21522.
- T1293 *Celastrus scandens* (Celastraceae); MEI ZHOU NAN SHE TENG; American Bittersweet. **Isolated compounds:** 3368.
- T1294 *Celastrus stephanotifolius* (Celastraceae). **Isolated compounds:** 3362, 3363, 13090, 16027.
- T1295 *Celastrus strigillosus* (Celastraceae); CU MAO NAN SHE TENG; Hirsute Bittersweet*. **Isolated compounds:** 3368.
- T1296 *Celosia argentea* (Amaranthaceae); QIANG XIANG; Feather Cockscomb. **Used part:** seed. **TCM Effects:** To dispel wind-heat, clear liver fire, brighten eyes and eliminate eye screens. **TCM Indications:** Red eyes with gall, eye screen, dizziness and dim vision, hypertension, nosebleed(epistaxis), wind-heat itching of skin, sore and lichen. **Isolated compounds:** 3384, 13179, 13180, 19983.
- T1297 *Celosia cristata* (Amaranthaceae); JI GUAN ZI; Common Cockscomb Seed. **Isolated compounds:** 12569, 12891, 12893, 15203, 16066, 18656, 20280, 22554.
- T1299 *Celosia cristata* (Amaranthaceae); JI GUAN HUA; Common Cockscomb Flower. **Used part:** inflorescence. **TCM Effects:** To cool blood and stanch bleeding, check discharge, check diarrhea. **TCM Indications:** Bleeding, vaginal discharge, diarrhea, dysentery. **Isolated compounds:** 1013, 2319.
- T1298 *Celtis philippinensis* (Ulmaceae); FEI LV BIN PIAO SHU; Philippine Nettle. **Isolated compounds:** 7784, 19920.
- T1300 *Celtis* sp. (Ulmaceae). **Isolated compounds:** 19545.
- T1301 *Centaurea aspera* ssp. *aspera* (Asteraceae); CU CAO SHI CHE JU; Rough Star Thistle. **Isolated compounds:** 14113, 14514, 16351.
- T1302 *Centaurea aspera* subsp. *stenophylla* (Asteraceae); XIA YE CU CAO SHI CHE JU; Narrow Rough Star Thistle*. **Isolated compounds:** 14113, 14514, 16351.
- T1303 *Centaurea attica* ssp. *attica* (Asteraceae). **Isolated compounds:** 206, 357, 2002, 3853, 6030, 9760, 13416, 14312.
- T1304 *Centaurea bracteata* (Asteraceae); BAO PIAN SHI CHE JU; Bracteole Centaurea*. **Isolated compounds:** 2585, 3387, 3398.
- T1305 *Centaurea cyanus* (Asteraceae); SHI CHE JU; Cornflower. **Used part:** whole herb, ray flower. **TCM Effects:** to clear heat and resolve toxin, quicken blood and disperse swelling, brighten eyes (whole herb), disinhibit urine (flower). **Isolated compounds:** 3392, 3393, 4451, 11327, 14998, 14999.
- T1306 *Centaurea nicolai* (Asteraceae); NI GU LA SHI CHE JU; Nicola Centaurea*. **Isolated compounds:** 504, 4712, 19193.
- T1307 *Centaurea pseudoscabiosa* ssp. *pseudoscabiosa* (Asteraceae); DONG AN NA TUO LI YA SHI CHE JU; East-Anatolia Centaurea*. **Isolated compounds:** 2105, 3601, 17406.
- T1308 *Centaurea* sp. (Asteraceae). **Isolated compounds:** 3635, 19122.
- T1309 *Centaurea thessala* ssp. *drakiensis* (Asteraceae). **Isolated compounds:** 206, 357, 3853, 6030, 9759, 10082, 14312.
- T1310 *Centaureum spicatum* (Gentianaceae); SUI ZHUANG BAI JIN HUA; Spicate Centaureum*. **Isolated compounds:** 18400, 18401, 18402, 18403.
- T1311 *Centella asiatica* (Apiaceae); JI XUE CAO; Asiatic Pennywort. **Used part:** whole herb with root. **TCM Effects:** To clear heat and disinhibit damp, resolve toxin and disperse swelling, lower blood pressure. **TCM Indications:** Sand *qi* abdominal pain, summerheat-heat diarrhea, dysentery, damp-heat jaundice, sand strangury, blood strangury, blood ejection, spontaneous external bleeding, red eyes, swollen throat, wind papules, scab and lichen, swelling toxin of clove welling abscess, knocks and falls, hypertension. **Isolated compounds:** 1853, 1854, 1855, 2586, 3395, 3396, 3397, 11738, 13336, 13337, 13338, 19460.
- T1312 *Centipeda minima* (Asteraceae); E BU SHI CAO; Small Centipeda. **Used part:** herb with flower. **TCM Effects:** To free nasal orifices, relieve cough. **TCM Indications:** Wind-cold common cold, cough with profuse phlegm, nasal congestion, deep-source nasal congestion and runny nose. **Isolated compounds:** 1345, 1749, 2602, 6402, 18376, 20369, 20708.
- T1313 *Centranthus longiflorus* ssp. *longiflorus* (Valerianaceae); CHANG HUA XIE CAO; Longflower Valerian*. **Isolated compounds:** 5185, 5186.
- T1314 *Centranthus* spp. (Valerianaceae). **Isolated compounds:** 22312.
- T1315 *Cephaelis ipecacuanha* (Rubiaceae); TU GEN; Ipecacuanha. **Used part:** root. **TCM Effects:** To dispel phlegm, effuse sweat, promote vomiting, disinhibit gallbladder. **TCM Indications:** Dysentery. **Isolated compounds:** 3400, 6772, 22098.
- T1316 *Cephalanthus occidentalis* (Rubiaceae); FENG XIANG SHU YE; Common Butterbush. **Used part:** leaf or bud. **TCM Effects:** To clear heat and resolve toxin, contract damp and relieve itch. **TCM Indications:** Itching sore of skin, heaven-borne sore, foot rot, knocks and falls, toothache, dysentery, enteritis. **Isolated compounds:** 1458, 9553, 18827.
- Cephalanthus pilulifera* = *Adina pilulifera*
- T1317 *Cephalotaxus drupacea* (Cephalotaxaceae); HE GUO CU FEI; Drupaceous Plumyew*. **Isolated compounds:** 9609.
- T1318 *Cephalotaxus fortunei* (Cephalotaxaceae); SAN JIAN SHAN; Fortune Plumyew. **Used part:** branchlet-leaf. **TCM Effects:** Anticancer. **TCM Indications:** Carcinoma of stomach, carcinoma of rectum, carcinoma of lung, carcinoma of esophagus, lymphatic sarcoma, leukaemia. **Isolated compounds:** 348, 1030, 1270, 1476, 3401, 3403, 3404, 3405, 3406, 3407, 3602, 3947, 5066, 5160, 5181, 6608, 6916, 6969, 7014, 7041, 7929, 8401, 9191, 9194, 9195, 9239, 9609, 9900, 9901, 9901, 9902, 11316, 11317, 11449, 11449, 14527, 14738, 15403, 19514,

- 19757, 19785, 20808, 22696, 22696.
- T1319 *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*] (Cephalotaxaceae); HAI NAN CU FEI; Hainan Plumyew. Used part: branchlet and bark. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 3402, 3404, 5066, 5181, 6608, 7014, 9191, 9194, 9195, 9239, 9609, 11449, 20811.
- T1320 *Cephalotaxus harringtonia* (Cephalotaxaceae); RI BEN CU FEI; Japanese Plumyew. Isolated compounds: 3404, 5181, 8401, 9239, 9609, 11449, 22696.
- T1321 *Cephalotaxus harringtonia* var. *drupacea* (Cephalotaxaceae); CHANG GENG CU FEI; Longstalk Plumyew*. Isolated compounds: 7, 5467, 5747, 7764, 9744, 20465.
- T1322 *Cephalotaxus oliveri* (Cephalotaxaceae); BI ZI CU FEI; Oliver Plumyew. Used part: Branchlet-leaf and seed. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 9239, 16086.
- T1323 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*] (Cephalotaxaceae); ZHONG GUO CU FEI ZHI YE; Chinese Plumyew Branch-leaf. Used part: branchlet-leaf. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 3404, 5066, 5181, 6608, 7041, 9194, 9239, 9609, 9901, 11449, 22696.
- T1324 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*] (Cephalotaxaceae); ZHONG GUO CU FEI ZI; Chinese Plumyew Seed. Isolated compounds: 9194, 11449.
- T1325 *Cephalotaxus wilsoniana* (Cephalotaxaceae); TAI WAN CU FEI; Wilson Plumyew. Isolated compounds: 1476, 1492, 3404, 7041, 7042, 7043, 9194, 11449, 11600, 14614, 20465, 20625, 20626, 20627, 21073, 21938, 22696.
Cerasus humilis = *Prunus humilis*
Cerasus japonica = *Prunus japonica*
- T1326 *Ceratonia siliqua* (Fabaceae); CHANG JIAO DOU; Carob. Isolated compounds: 832, 18265.
- T1327 *Ceratostigma minus* (Plumbaginaceae); XIAO JIAO ZHU HUA; Creeping Ceratostigma, Creeping Bluesnow. Used part: root. TCM Effects: To dispel wind-damp, free channels and network vessels, relieve pain. TCM Indications: Wind-damp numbness, pain in stomach duct, abdomen and rib-side, knocks and falls, fracture, angitis, parotitis. Isolated compounds: 17569.
- T1328 *Ceratostigma plumbaginoides* (Plumbaginaceae); JIAO ZHU HUA; Blue Ceratostigma, Blue Bluesnow. Used part: root. TCM Effects: See *Ceratostigma willmottianum*. TCM Indications: See *Ceratostigma willmottianum*. Isolated compounds: 17568.
- T1329 *Ceratostigma willmottianum* (Plumbaginaceae); ZI JIN LIAN; Willmott Ceratostigma. Equivalent plant: *Ceratostigma plumbaginoides*. Used part: root. TCM Effects: To move *qi*, quicken blood, settle pain. TCM Indications: Knocks and falls, fracture. Isolated compounds: 17568.
- T1330 *Cerbera manghas* (Apocynaceae); NIU XIN QIE ZI; Common Cerberustree. Used part: kernel. TCM Indications: Anesthesia. Isolated compounds: 349, 526, 1389, 1390, 3416, 3417, 4775, 13479, 15494, 20671, 21326.
- T1331 *Cerbera odollam* (Apocynaceae); AO DAO LA MU HAI MANG GUO; Odollam Cerberustree*. Isolated compounds: 349, 3416, 3429, 15494, 15495, 21325, 21326.
- T1332 *Cercidiphyllum japonicum* (Cercidiphyllaceae); RI BEN LIAN XIANG SHU; Japanese Katsura-tree. Used part: ripe fruit. TCM Effects: To dispel wind and settle fright, check tetany. TCM Indications: Infant fright wind, convulsion with cold limbs. Isolated compounds: 1074, 3418.
- T1333 *Cercidiphyllum japonicum* var. *sinense* (Cercidiphyllaceae); LIAN XIANG SHU; Katsura-tree. Isolated compounds: 3318.
- T1334 *Cereus pectenaboriginum* (Cactaceae). Isolated compounds: 16746.
- T1335 *Ceriops decandra* (Rhizophoraceae); SHI XIONG RUI JIAO GUO MU; Ten-stamen Ceriops*. Isolated compounds: 3423, 3424, 3425, 3426, 3427, 3428.
- T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*] (Rhizophoraceae); JIAO GUO MU; Common Ceriops. Used part: bark. TCM Effects: To resolve toxin, stanch bleeding, close sores. TCM Indications: Bleeding due to external injury, ulcerating sores. Isolated compounds: 20600, 20601, 20602, 20603, 20604, 20605, 20606, 20607.
- T1337 *Cervus nippon*; *Cervus elaphus* (Cervidae); LU RONG; Hairy Antler. Used part: non-ossifying young horn of male deer or stag. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, strengthen sinews and bones, regulate thoroughfare and controlling vessels, draw sore toxin. TCM Indications: Impotence and emission, infertility due to uterus cold, marked emaciation, thrombocytopenia, septicemia, fatigued spirit, aversion of cold, dizziness, tinnitus and deafness, aching pain in lumbus and back, limp wilting sinew and bone, flooding and spotting with vaginal discharge, enduring *yin* flat abscess. Isolated compounds: 626, 3585, 7383, 7384, 7387, 8076, 8753, 10913, 17954, 18656.
- T1338 *Cestrum nocturnum* (Solanaceae); YE XIANG SHU; Nightblooming Cestrum. Used part: leaf. TCM Effects: To clear heat and disperse swelling. TCM Indications: Mammary welling abscess, welling abscess and sores. Isolated compounds: 1177, 5982, 5983, 6128, 6129, 6130, 6447, 7521, 8657, 8658, 8659, 8660, 8693, 8695, 8698, 8748, 10722, 10727.
- T1339 *Cestrum parqui* (Solanaceae); PA KE YE XIANG SHU; Parqui Cestrum. Isolated compounds: 5956, 5957, 5958, 7079, 7123, 10366, 10367, 10368, 10369, 10370, 10371, 11583, 15967, 20215, 21124, 21753.
- T1340 *Cestrum sendtnerianum* (Solanaceae). Isolated compounds: 6124, 6125, 6126, 6127, 6131.
- T1341 *Cetraria islandica* (Parmeliaceae); BING DAO YI; Iceland Moss. Used part: lichen. TCM Effects: To regulate digestive system, increase appetite. Isolated compounds: 17979.
- T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*] (Rosaceae); QIU MU GUA; Common Floweringquince. Used part: fruit. TCM Effects: To soothe sinews and quicken network vessels, harmonize stomach and transform damp. TCM Indications: Wind-damp impediment pain, aching and weightiness of limbs, hypertonicity of sinews and vessels, vomiting and diarrhea with cramp, beriberi. Isolated compounds: 530, 2978, 3594, 4439, 9717, 16050, 16785.

- T1343 *Chaenomeles sinensis* (Rosaceae); MU GUA; Chinese Floweringquince. Used part: fruit. TCM Effects: To harmonize stomach and soothe the sinews, dispel wind-damp, disperse phlegm and allay thirst. TCM Indications: Vomiting and diarrhea with cramp, wind-damp impediment pain, cough and abundant phlegm, diarrhea, dysentery, painful wound from knocks and falls, beriberi with edema. Isolated compounds: 8621, 16050, 22270.
- T1344 *Chaetomium quadrangulatum* SI LENG JIAO MAO KE JUN. Isolated compounds: 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450.
- T1345 *Chaetomium thielavioideum*. Isolated compounds: 3439.
- T1346 *Chaetomorpha basiretorsa* LV ZAO JI GEN YING MAO ZAO. Isolated compounds: 4361.
Chalcas paniculata = *Murraya paniculata*
- T1347 *Chamaecyparis formosensis* (Cupressaceae); HONG GUI; Formosan False Cypress. Isolated compounds: 4234, 5170, 10300, 10301, 10372, 10373, 10575, 10657, 13646, 14679.
- T1348 *Chamaecyparis nootkatensis* (Cupressaceae); HUANG BIAN BAI; Yellow Cedar. Isolated compounds: 15705.
- T1349 *Chamaecyparis obtusa* (Cupressaceae); RI BEN BIAN BAI; Hinoki False Cypress. Isolated compounds: 4310, 9546, 11353.
- T1350 *Chamaecyparis pisifera* (Cupressaceae); RI BEN HUA BAI; Sawara False Cypress. Isolated compounds: 1476, 1764, 11353, 14680, 17371, 17486, 17487, 17488, 17489, 17490, 17491, 19428, 19429.
- T1351 *Chamaecyparis* spp. (Cupressaceae). Isolated compounds: 15664.
- T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*] (Onagraceae); HONG KUAI ZI; Great Willowherb (Firewood). Used part: herb. TCM Effects: To disinhibit water and percolate damp, rectify *qi* and disperse swelling, quicken blood and regulate menstruation. TCM Indications: Edema, diarrhea, food accumulation distention and fullness, menstrual disorder, galactostasis, scrotal enlargement, itch-pain in sore and papules. Isolated compounds: 4088, 6757, 8095, 10887, 11642, 16011, 16050, 18358, 18371, 18411, 21392.
Championella japonica = *Strobilanthes japonicus*
- T1353 *Changium smyrnioides* (Apiaceae); MING DANG SHEN; Medicinal Changium. Used part: root. TCM Effects: To moisten lung and transform phlegm, nourish *yin* and harmonize stomach, resolve toxin. TCM Indications: Lung heat cough, vomiting nausea, reduced food intake with dry mouth, anemia, dizziness, leukorrhea, clove toxin sores. Isolated compounds: 1048, 11503, 11574, 15515, 20369, 20444.
- T1354 *Chartolepis intermedia* (Asteraceae); BO LIN JU; Intermediate Chartolepis. Isolated compounds: 9015.
- T1355 *Chasmanthera* spp. (Menispermaceae). Isolated compounds: 15751.
- T1356 *Cheiranthus cheiri* (Brassicaceae); GUI ZHU XIANG; Common Wallflower. Used part: flower. TCM Effects: To moisten intestines and free stool, free menstruation. TCM Indications: Constipation, menstrual disorder, amenorrhea, dysmenorrhea. Isolated compounds: 922, 7291, 8591, 11651, 11661, 22492.
- T1357 *Chelidonium majus* (Papaveraceae); BAI QU CAI; Greater Celandine. Used part: whole herb. TCM Effects: To settle pain and relieve cough, disinhibit urine and resolve toxin. TCM Indications: Pain in sensory nerve endings, pain from ulcer in digestive tract, stomachache, abdominal pain, enteritis, dysentery, chronic bronchitis, pertussis, cough, jaundice, edema, ascites, scab and lichen with swelling of sores, snake or insect bites. Isolated compounds: 930, 2303, 3498, 3499, 3500, 3501, 3502, 3507, 3508, 4032, 4290, 5708, 7250, 7820, 9568, 9600, 9903, 13880, 14133, 15659, 15664, 16302, 16473, 17983, 19284, 20133, 20168, 20416, 21061, 22158, 22732.
- T1358 *Chelidonium* spp. (Papaveraceae). Isolated compounds: 3498.
- T1359 *Chenopodium album* (Chenopodiaceae); LI; Lambsquarters Juvenile. Used part: juvenile whole herb. TCM Effects: To clear heat and dispel damp, resolve toxin and disperse swelling, kill worms and relieve itch. TCM Indications: Fever, cough, dysentery, diarrhea, abdominal pain, mounting *qi*, decayed toothache, eczema, scab and lichen, white patch wind, swelling pain of sores, poisonous insect stings. Isolated compounds: 7777, 7778, 7788, 14444, 14445, 15957.
- T1360 *Chenopodium amaranticolor* (Chenopodiaceae); XIAN SE LI; Amaranthinecolor Goosefoot*. Isolated compounds: 1013.
- T1361 *Chenopodium ambrosioides* (Chenopodiaceae); TU JING JIE; Mexican Tea. Used part: fruiting aerial parts. TCM Effects: To dispel wind and eliminate damp, kill worms and relieve itch, quicken blood and disperse swelling. TCM Indications: Ancylostomiasis, ascariasis, oxyuria disease, head louse, eczema of skin, scab and lichen, wind-damp impediment pain, amenorrhea, dysmenorrhea, mouth and tongue sores, swelling pain in throat, knocks and falls, snake or insect bites. Isolated compounds: 1731, 1842, 4550, 12083, 12091, 13719, 13720, 13721, 13722, 17402, 20168.
- T1362 *Chenopodium botrys* (Chenopodiaceae); XIANG LI; Feathered Geranium. Isolated compounds: 1842, 7751.
- T1363 *Chenopodium championii* (Chenopodiaceae); ZONG ZHUANG HUA LI; Racemose Goosefoot*. Isolated compounds: 19929.
- T1364 *Chenopodium murale* (Chenopodiaceae); BI SHENG LI; Mural Goosefoot*. Isolated compounds: 12086.
- T1365 *Chiloscyphus polyanthus* (Lophocoleaceae); LIE E TAI; Polybract Split-calyx Liverwort*. Isolated compounds: 3167, 3168, 3177, 7501, 7508.
- T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*] (Calycanthaceae); LA MEI HUA; Wintersweet Bud. Used part: flower bud. TCM Effects: To clear heat and resolve summerheat, rectify *qi* and open depression. TCM Indications: Summerheat-heat vexation and thirst, dizziness, oppression in chest due to glomus, globus hystericus, swelling pain in throat, pertussis, child measles, burns and scalds. Isolated compounds: 2273, 2550, 3002, 3527, 7734, 7944, 11025, 14632, 18342, 20805, 21549.
- T1367 *Chiococca alba* (Rubiaceae); BAI XUE GUO MU. Isolated compounds: 867, 868, 869, 870.
- T1368 *Chionodoxa luciliae* (Liliaceae); XUE GUANG HUA; Glory-of-the-snow. Isolated compounds: 1505, 1506, 1509, 7083, 7133, 7134, 7135, 7136, 7137, 19517.
- T1369 *Chionographis japonica* (Liliaceae); RI BEN BAI SI CAO; Japanese Chionographis*. Isolated compounds: 16809.
- T1370 *Chirita micronusa* (Gesneriaceae); CHUN ZHU JU TAI; Chirita. Isolated compounds: 3432.
Chloranthus glaber = *Sarcandra glabra*
- T1371 *Chloranthus japonicus* (Chloranthaceae); YIN XIAN CAO; Japanese

- Chloranthus. Used part: whole herb or root and rhizome. TCM Effects: To quicken blood and move stasis, dispel wind and eliminate damp, resolve toxin. TCM Indications: Knocks and falls, wind-damp impediment pain, wind-cold common cold, swelling toxin sores, poisonous snake bites. Isolated compounds: 8014, 11702, 19839, 19840, 19841, 19842, 19843, 19844, 19845.
- T1372 *Chloranthus serratus* (Chloranthaceae); JI JI; Serrate Chloranthus. Used part: root. TCM Effects: To quicken blood and dissipate stasis, dispel wind and relieve pain, resolve toxin and kill worms. TCM Indications: Knocks and falls, fracture, amenorrhea, wind-damp impediment pain, clove boil, scab and lichen, itchy skin, poisonous snake bite. Isolated compounds: 560, 5697, 8014, 10537, 15334, 19843, 19844.
- T1373 *Chloranthus serratus* (Chloranthaceae); JI JI JING YE; Serrate Chloranthus Stem-leaf. Used part: stem-leaf. TCM Effects: To dispel wind quicken blood, resolve toxin and relieve itch. TCM Indications: Common cold, cough, wind-damp pain, knocks and falls, welling abscess and boil, menstrual disorder [= menoxenia]. Isolated compounds: 17084, 17086.
- T1374 *Chloranthus spicatus* (Chloranthaceae); JIN SU LAN; Chulan Tree. Used part: whole herb or root and leaf. TCM Effects: To dispel wind-damp, quicken blood and relieve pain, kill worms. TCM Indications: Knocks and falls, migraine, intractable lichen. Isolated compounds: 8014, 19840.
- T1375 *Chlorella* spp. Isolated compounds: 17729.
- T1376 *Chlorophora excelsa* (Moraceae); GAO HUANG LU SANG; Iroko Fustic-tree. Isolated compounds: 3567, 10054.
- T1377 *Chlorophora* sp. (Moraceae). Isolated compounds: 15715.
- T1378 *Chlorophora tinctoria* (Moraceae); HUANG YAN MU. Isolated compounds: 13296, 17823.
- T1379 *Chlorophyllum molybdites* (Agaricaceae). Isolated compounds: 6902, 22249.
- T1380 *Chlorophytum malayense* (Liliaceae); DA YE DIAO LAN; Bigleaf Breaketplant. Isolated compounds: 3563.
- T1381 *Choerospondias axillaris* NAN SUAN ZAO; Axillary Southern Wildjujube. Used part: Fresh fruit or seed. TCM Effects: To move *qi* and quicken blood, nourish heart and quiet spirit, disperse accumulation, resolve toxin. TCM Indications: *Qi* stagnation and blood stasis, chest pain, palmus and breathe hard, neurasthenia, insomnia, bronchitis, food stagnation and abdominal fullness, diarrhea, mounting *qi* (hernia), burns and scalds. Isolated compounds: 8095.
- T1382 *Chondria armata* [Syn. *Lophura armata*] (Rhodomelaceae); RUAN GU ZAO. Used part: frond. TCM Effects: To expel worms. TCM Indications: Oxyuria disease, ascariasis. Isolated compounds: 3333, 11387, 11388, 11389, 11390, 15742, 16894.
- T1383 *Chondrodendron tomentosum* (Menispermaceae); NAN MEI FANG JI. Isolated compounds: 22091.
- T1384 *Chondrus ocelladus* (Gigartinales); JIAO CHA CAI. Used part: frond. TCM Effects: To clear heat and resolve toxin, harmonize stomach and free stool. TCM Indications: Common cold with fever and chills, mumps, swelling pain in throat, knocks and falls, pain in stomach duct, intestinal dry and constipation. Isolated compounds: 18798.
- T1385 *Chorda filum* (Chordaria); SHENG ZAO. Used part: frond. TCM Effects: To soften hardness, dispel phlegm, disinhibit urine, lower blood pressure. TCM Indications: Scrofula, goiter and carcinoma of neck, hypertension. Isolated compounds: 16860, 21639, 21869.
- T1386 *Chrozophora* spp. (Euphorbiaceae). Isolated compounds: 3551.
- T1387 *Chrysanthemum boreale* (Asteraceae); BEI YE JU; Boreal Wild Chrysanthemum. Used part: whole herb and root. TCM Effects: See *Chrysanthemum indicum*. TCM Indications: See *Chrysanthemum indicum*. Isolated compounds: 61, 251, 1476, 2547, 3689, 4135, 5314, 21350.
- T1388 *Chrysanthemum cinerariaefolium* (Asteraceae); CHU CHONG JU; Dalmatian Pyrethrum. Equivalent plant: *Chrysanthemum coccineum*. Used part: capitulum and whole herb. TCM Effects: To kill worms. TCM Indications: Scab and lichen. Isolated compounds: 3388, 3593, 3692, 18257.
- T1389 *Chrysanthemum coccineum* (Asteraceae); HONG HUA CHU CHONG JU; Pyrethrum. Used part: capitulum and whole herb. TCM Effects: See *Chrysanthemum cinerariaefolium*. TCM Indications: See *Chrysanthemum cinerariaefolium*. Isolated compounds: 18257.
- T1390 *Chrysanthemum coronarium* (Asteraceae); TONG HAO; Crowndaisy Chrysanthemum. Equivalent plant: *Chrysanthemum segetum*. Used part: stem-leaf. TCM Effects: To harmonize spleen and stomach, disperse phlegm rheum, quiet heart and spirit. TCM Indications: Spleen-stomach disharmony, urinary and fecal stoppage, cough with profuse phlegm, heat vexation and disquiet. Isolated compounds: 4079, 15135.
- T1391 *Chrysanthemum frutescens* (Asteraceae); MU TONG HAO; Marguerite. Isolated compounds: 3122.
- T1392 *Chrysanthemum indicum* (Asteraceae); YE JU; Indian Wild Chrysanthemum. Equivalent plant: *Chrysanthemum lavandulifolium*, *Chrysanthemum boreale*. Used part: whole herb and root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold, trachitis, hepatitis, hypertension, dysentery, swollen welling abscess, clove sore, red eyes and distending pain, scrofula, eczema. Isolated compounds: 1789, 3237, 3592, 3594, 3595, 8753, 15705, 21350.
- T1393 *Chrysanthemum indicum* (Asteraceae); YE JU HUA; Indian Wild Chrysanthemum Flower. Used part: flower-head. TCM Effects: To lower blood pressure, clear heat and resolve toxin. TCM Indications: Hypertension, headache and dizziness, insomnia, common cold, influenza, meningitis, swollen welling abscess and clove sores, red eyes with gall. Isolated compounds: 56, 57, 61, 1492, 3551, 3594, 3597, 3674, 6453, 7283, 7284, 7582, 9218, 11021, 13137, 13147, 17097, 18345.
- T1394 *Chrysanthemum lavandulifolium* (Asteraceae); YAN XIANG JU; Lavandulaleaf Chrysanthemum. Used part: whole herb and root. TCM Effects: See *Chrysanthemum indicum*. TCM Indications: See *Chrysanthemum indicum*. Isolated compounds: 4941, 10405, 21350.
- T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (Asteraceae); JU HUA; Florists Chrysanthemum Flower. Used part: capitulum. TCM Effects: To course wind and clear heat, calm liver and brighten eyes, resolve toxin and disperse swelling. TCM Indications: Angina pectoris, hypertension, externally contracted wind-heat, wind warmth, fever and headache, dizziness, common cold, red eyes, red

- eyes with gall, swelling toxin of clove sore. Isolated compounds: 56, 617, 1064, 1483, 1492, 2550, 2843, 3545, 3551, 3594, 3596, 3674, 5750, 11287, 11288, 11289, 12987, 13137, 21391.
- T1396 *Chrysanthemum parthenium* (Asteraceae). Isolated compounds: 16713.
- T1397 *Chrysanthemum segetum* (Asteraceae); NAN TONG HAO; South Chrysanthemum. Used part: stem-leaf. TCM Effects: See *Chrysanthemum coronarium*. TCM Indications: See *Chrysanthemum coronarium*. Isolated compounds: 15724.
- T1398 *Chrysanthemum* sp. (Asteraceae). Isolated compounds: 7821, 19308.
- T1399 *Chrysanthemum* spp. (compositae). Isolated compounds: 9496, 16675, 17719.
- T1400 *Chrysanthemum vulgare* (Asteraceae); AI JU; Tansy. Isolated compounds: 3048.
- T1401 *Chrysobalanus icaco* (Chrysobalanaceae); YI KOU KE MEI; Coco-plum. Isolated compounds: 12748.
- T1402 *Chrysosplenium alternifolium* (Saxifragaceae); JIN YAO; Alternate-leaved Golden-saxifrage. Used part: whole herb. TCM Effects: To clear heat and disinherit damp. TCM Indications: Strangury syndrome, jaundice, bleeding. Isolated compounds: 3623.
- T1403 *Chrysosplenium grayanum* (Saxifragaceae); JIN QIAN KU YE CAO; Goldsaxifrage Herb. Used part: herb. TCM Indications: Clove sore. Isolated compounds: 3611, 3625, 3626, 14602.
- T1404 *Chrysosplenium japonicum* (Saxifragaceae); RI BEN JIN YAO; Japanese Goldsaxifrage. Isolated compounds: 3300, 3622.
- T1405 *Chrysosplenium maximowiczii* (Saxifragaceae); MA SHI JIN YAO; Maximowicz Goldsaxifrage*. Isolated compounds: 3623.
- T1406 *Chrysosplenium nudicaule* (Saxifragaceae); ZANG YAO LUO JING JIN YAO; Naked-caule Goldsaxifrage. Used part: whole herb. TCM Effects: To clear heat and remove damp, soothe the liver and disinherit gallbladder. TCM Indications: Jaundice, pain in rib-side, concretion and conglomeration, cholecystitis, gallstones. Isolated compounds: 16798.
- T1407 *Chrysosplenium oppositifolium* (Saxifragaceae); DUI YE JIN YAO; Oppositeleaf Goldsaxifrage*. Isolated compounds: 3623.
- T1408 *Chrysosplenium tosaense* (Saxifragaceae); SHANG ZUO ZHOU JIN YAO; Tosa Goldsaxifrage*. Isolated compounds: 3300, 3622.
- T1409 *Chrysothamnus viscidiflorus* NIAN ZHI JIN ZHI JU. Isolated compounds: 416.
- T1410 *Chukrasia tabularis* (Meliaceae); MA LIAN; Chittagong Chickrassy. Used part: root cortex. TCM Effects: To course wind and clear heat. TCM Indications: Common cold with fever. Isolated compounds: 20581, 20582, 20583, 20584, 20585, 20586.
- T1411 *Cibotium barometz* [Syn. *Polypodium barometz*] (Dicksoniaceae); JIN MAO GOU; Scythian Lamb. Used part: rhizome. TCM Effects: To strengthen lumbus and knees, dispel wind-damp, disinherit joints. TCM Indications: Kidney vacuity lumbar pain and back rigidity, inability of legs and knees, wind-damp impediment pain, frequent urination, emission, excessive leukorrhea. Isolated compounds: 2887, 5763, 16098, 16099, 16100, 18098, 18153, 18161.
- T1412 *Cicer arietinum* (Fabaceae); HUI HUI DOU; Gram Chickpea. Used part: seed. TCM Effects: To clear heat and resolve toxin. TCM Indications: Diabetes mellitus. Isolated compounds: 2384, 2386, 4645, 7883, 8202, 9606, 11504, 12908, 13636, 14260, 17765, 18281, 20127.
- T1413 *Cicer* spp. (Fabaceae). Isolated compounds: 12908.
- T1414 *Cicerbita alpina* (Asteraceae); GAO SHAN YAN SHEN; Alpine Sowthistle. Isolated compounds: 16263.
- T1415 *Cichorium intybus* (Asteraceae); JU QU; Common Chicory. Used part: aerial parts. TCM Effects: To clear heat and resolve exterior, disinherit urine and disperse edema. TCM Indications: Damp-heat jaundice, nephritis with edema, distending pain in stomach duct, inappetence. Isolated compounds: 663, 664, 1110, 3518, 3635, 5021, 5028, 5187, 5585, 11797, 12446, 12447, 13377, 14920, 20712.
- T1416 *Cicuta virosa* (Apiaceae); DU QIN GEN; European Waterhemlock Root. Used part: root. TCM Effects: To draw out toxin, dispel stasis, relieve pain. TCM Indications: Medullitis, pain wind, wind-damp pain (external use with high toxicity). Isolated compounds: 3636, 3637, 3988, 4354, 20988.
- T1417 *Cimicifuga acerina* (Ranunculaceae); SAN MIAN DAO; Small Bugbane. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, course wind and outthrust papules, quicken blood and relieve pain, lower blood pressure. TCM Indications: Sore pharynx, swollen boil, non-eruption of macula, taxation damage, pain in lumbus and legs, knocks and falls, hypertension. Isolated compounds: 94, 353, 354, 3649, 3651, 9455, 9764, 9906, 14242, 14243, 14244, 19800.
- T1418 *Cimicifuga asiatica* (Ranunculaceae); LEI YE SHENG MA; Asica Baneberry. Isolated compounds: 9455.
- T1419 *Cimicifuga dahurica* (Ranunculaceae); XING AN SHENG MA; Dahurian Bugbane. Used part: rhizome. TCM Effects: See *Cimicifuga foetida*. TCM Indications: See *Cimicifuga foetida*. Isolated compounds: 352, 1561, 2887, 3652, 3653, 3654, 3655, 3656, 3658, 3670, 3671, 3672, 3673, 5464, 5752, 7768, 9455, 9762, 10316, 11331, 14181, 19800, 19983, 22530, 22553.
- T1420 *Cimicifuga foetida* (Ranunculaceae); SHENG MA; Bugbane. Equivalent plant: *Cimicifuga dahurica*, *Cimicifuga heracleifolia*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, effuse exterior and outthrust papules, upbear yang and raise fall. TCM Indications: Prevention of ptosis, women's hormone dysfunction diseases, seasonal epidemic fire toxin, mouth sore, sore pharynx, macula, cold-heat headache, swelling toxin of welling abscess and sore, center qi fall, spleen vacuity diarrhea, chronic dysentery, vaginal discharge, flooding. Isolated compounds: 141, 512, 2887, 3650, 3657, 3658, 5466, 7768, 9455, 19187.
- T1421 *Cimicifuga heracleifolia* (Ranunculaceae); DA SAN YE SHENG MA; Cowparsnipleaf Bugbane. Used part: rhizome. TCM Effects: See *Cimicifuga foetida*. TCM Indications: See *Cimicifuga foetida*. Isolated compounds: 7768, 9455.
- T1422 *Cimicifuga japonica* (Ranunculaceae); RI BEN SHENG MA; Japanese Bugbane*. Isolated compounds: 513, 3660, 5162, 14244.
- T1423 *Cimicifuga nanchuanensis* (Ranunculaceae); NAN CHUAN SHENG MA; Nanchuan Bugbane*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, course wind and outthrust papules, upbear yang and raise fall. TCM Indications: Non-eruption of macula, swelling pain in throat, taxation damage, center qi fall, diarrhea, knocks and falls. Isolated compounds: 9455, 15726.
- T1424 *Cimicifuga racemosa* (Ranunculaceae); ZONG ZHUANG SHENG

- MA; Racemose Bugbane*. Isolated compounds: 414, 477, 512, 579, 3658, 3659, 3666, 3667, 3668, 3669, 5150, 5790, 9455, 9905, 13881.
- T1425 *Cimicifuga simplex* (Ranunculaceae); YE SHENG MA; Kamchatka Bugbane. Used part: rhizome. TCM Effects: To effuse exterior and outthrust papules, clear heat and resolve toxin. TCM Indications: Wind-heat common cold, child measles, heat toxin macula, swelling pain in throat, swollen welling abscess and sores, *yang* brightness headache, chronic diarrhea, prolapse of rectum, flooding and spotting, Vaginal discharge. Isolated compounds: 352, 354, 1066, 2729, 2730, 2731, 2732, 2888, 3649, 3651, 3652, 3658, 3661, 3662, 3663, 3664, 3665, 9455, 12222, 14241, 14243, 14244.
- T1426 *Cimicifuga* sp. (Ranunculaceae). Isolated compounds: 237, 238, 280, 3649, 3652, 5488, 5489, 10697.
- T1427 *Cinchona cuprea* (Rubiaceae); TONG SE JI NA SHU; Cupreous Cinchona*. Isolated compounds: 2887.
- T1428 *Cinchona ledgeriana* (Rubiaceae); JIN JI LE; Ledger Cinchona. Equivalent plant: *Cinchona officinalis*, *Cinchona succirubra*. Used part: bark. TCM Effects: To interrupt malaria and abate fever, resolve liquor and arouse spleen. TCM Indications: Malaria, externally contracted ardent fever, drunkenness. Isolated compounds: 1680, 3599, 3675, 3682, 3684, 3685, 3686, 3687, 4004, 4373, 5522, 7003, 7004, 9738, 9739, 18407, 18421, 18422, 18423, 18424, 18425.
- T1429 *Cinchona officinalis* (Rubiaceae); ZHENG JI NA SHU; Medicinal Cinchona. Used part: bark. TCM Effects: See *Cinchona ledgeriana*. TCM Indications: See *Cinchona ledgeriana*. Isolated compounds: 9738.
- T1430 *Cinchona robusta* (Rubiaceae); CU ZHUANG JIN JI NA; Robust Cinchona*. Isolated compounds: 18869, 18870, 18871, 18872, 18873, 18874, 18875, 18876.
- T1431 *Cinchona* sp. (Rubiaceae). Isolated compounds: 5522.
- T1432 *Cinchona* spp. (Rubiaceae). Isolated compounds: 3551.
- T1433 *Cinchona succirubra* (Rubiaceae); HONG SE JIN JI NA SHU; Redbark Cinchona. Used part: bark. TCM Effects: See *Cinchona ledgeriana*. TCM Indications: See *Cinchona ledgeriana*. Isolated compounds: 18425.
- T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*] (Lauraceae); DUN YE GUI PI; Obtuseleaf Cassia Bark, Wild Cinnamon Bark. Used part: bark. TCM Effects: To dispel wind and dissipate cold, warm menstruation and quicken blood, relieve pain. TCM Indications: Bleeding due to external injury (external use), wind-cold impediment pain, lumbago, menstrual block, dysmenorrhea, painful swelling from knocks and falls, cold pain in stomach duct, abdominal pain, vacuity cold diarrhea, snake bite. Isolated compounds: 17869, 17888.
- T1435 *Cinnamomum camphora* (Lauraceae); ZHANG MU; Camphortree. Used part: wood. TCM Effects: To dispel wind and dissipate cold, warm center and rectify *qi*, quicken blood and free network vessels. TCM Indications: Wind-cold common cold, stomach cold distending pain, cold-damp vomiting and diarrhea, wind-damp impediment pain, beriberi, painful wound from knocks and falls, scab and lichen with itching. Isolated compounds: 1520, 2071, 2846, 2850, 2935, 2940, 2941, 3047, 3048, 3049, 3050, 3231, 3241, 3242, 4076, 7481, 7521, 7751, 9669, 11566, 12375, 12573, 15205, 15500, 15500, 18655, 19121, 19302, 19303.
- T1436 *Cinnamomum camphora* (Lauraceae); ZHANG SHU PI; Camphortree Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, warm stomach and harmonize center, kill worms and cure sores. TCM Indications: Wind-damp impediment pain, pain in stomach duct, vomiting and diarrhea, leg *qi* swelling and pain, knocks and falls, scab and lichen with sore toxin, poisonous insect stings. Isolated compounds: 15902, 16884, 17869, 17876, 17890, 17893.
- T1437 *Cinnamomum camphora* (Lauraceae); ZHANG SHU YE; Camphortree Leaf. Used part: leaf. TCM Effects: To dispel wind, eliminate damp, kill worms, resolve toxin. TCM Indications: Wind-damp impediment pain, stomachache, burns and scalds, toxin swelling of sores, shank sore, scab and lichen, itchy skin, poisonous insect stings. Isolated compounds: 16333, 16334, 21954.
- T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (Lauraceae); GUI ZHI; Cassiabarktree Twig. Used part: twig. TCM Effects: To dissipate cold and resolve exterior, warm channels and free network vessels, promote *yang* and transform *qi*. TCM Indications: Wind-cold exterior syndrome, cold-damp impediment pain, reversal cold of limbs, amenorrhea and dysmenorrhea, concretion and conglomeration, chest impediment, palpitation, phlegm-rheum, inhibited urination. Isolated compounds: 1263, 1264, 3693, 3695, 3696, 4140, 5665, 5763, 9908, 13678, 13882, 13882, 17869, 19983.
- T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (Lauraceae); ROU GUI; Cassiabarktree. Used part: bark. TCM Effects: To supplement fire and reinforce *yang*, return fire to its source, dissipate cold and relieve pain, quicken blood and free menstruation. TCM Indications: Impotence, uterus cold, cold pain in lumbus and knees, kidney vacuity asthma, *yang* vacuity dizziness, red eyes and sore pharynx, cold pain in heart and abdomen, vacuity cold vomiting and diarrhea, cold mounting, running piglet, amenorrhea, dysmenorrhea. Isolated compounds: 3693, 3695, 3726, 4140, 6857, 7430, 13678, 17869, 17876, 17878, 17888, 17890, 17893, 21923.
- T1440 *Cinnamomum glanduliferum* (Lauraceae); YUN NAN ZHANG; Nepal Camphortree. Used part: fruit or wood. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain. TCM Indications: Wind-cold common cold, cough, wind-damp impediment pain, distending pain in stomach duct, diarrhea. Isolated compounds: 6745, 15204.
- T1441 *Cinnamomum japonicum* (Lauraceae); GUI PI; Japanese Cinnamon. Used part: bark. TCM Effects: To warm spleen and stomach, warm liver and kidney, dispel cold and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Cold pain in stomach duct and abdomen, vomiting and diarrhea, aching cold in lumbus and knees, cold mounting with abdominal pain, cold-damp impediment pain, dysmenorrhea, blood dysentery, intestinal wind, painful swelling from knocks and falls. Isolated compounds: 3693, 3695, 7521.
- T1442 *Cinnamomum loureirii* (Lauraceae); MU GUI; Loureir Cinnamon*. Isolated compounds: 4140.
- T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*] (Lauraceae); XIANG ZHANG; Yellow Cinnamon. Used part: root, bark or leaf. TCM Effects: To dispel wind and dissipate cold, warm center and relieve pain, move *qi* and quicken blood. TCM Indications:

- Wind-cold common cold, wind-damp impediment pain, stomach cold abdominal pain, diarrhea, dysentery, knocks and falls, menstrual disorder. Isolated compounds: 7521, 20988.
- T1444 *Cinnamomum tamala* (Lauraceae); SAN TIAO JIN; Tibet Cinnamon Bark. Used part: bark or leaf. TCM Effects: To warm channels and free network vessels, move *qi* and relieve pain. TCM Indications: Cold-damp impediment pain, pain in stomach duct and abdomen, dysmenorrhea, knocks and falls. Isolated compounds: 3693, 7521.
- T1445 *Cinnamomum zeylanicum* (Lauraceae); XI LAN ROU GUI; Ceylon Cinnamon. Isolated compounds: 3693, 8392, 8393, 9490, 15940, 20113, 20114.
- T1446 *Cipadessa baccifera* (Meliaceae); YA LUO CHUN; Bacciform Cipadessa. Used part: root, leaf. TCM Effects: To course wind and resolve exterior, interrupt malaria. TCM Indications: Common cold, itchy skin, malaria. Isolated compounds: 3734, 6100, 7117, 7118.
- T1447 *Cirsium japonica* var. *takaoense* (Asteraceae); TAI WAN JI; Taiwan Thistle*. Isolated compounds: 16756.
- T1448 *Cirsium chinense* (Asteraceae); KU AO; Chinese Thistle. Used part: herb. TCM Effects: To clear heat and resolve toxin, cool blood and quicken blood. TCM Indications: Vexation and oppression due to summerheat-heat, flooding and spotting, blood ejection from knocks and falls, hemorrhoids, clove sore. Isolated compounds: 3742, 3744.
- T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle. Used part: aerial parts or root. TCM Effects: To cool blood and stanch bleeding, dispel stasis and disperse swelling. TCM Indications: Spontaneous external bleeding, blood ejection, hematuria, hematochezia, flooding and spotting, bleeding due to external injury, swelling toxin of welling abscess and sore. Isolated compounds: 1110, 1112, 1113, 9497, 16756, 20369, 20706, 20707.
- T1450 *Cirsium lineare* (Asteraceae); TIAO YE JI; Linearleaf Thistle. Used part: root or whole herb. TCM Effects: To quicken blood and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, amenorrhea, dysmenorrhea, mastitis, knocks and falls, urinary tract infection, welling abscess and boil, snake bite. Isolated compounds: 3743.
- T1451 *Cirsium setosum* [Syn. *Cerratura setosa*; *Cirsium segetum*; *Cephalanoplos segetum*] (Asteraceae); XIAO JI; Setose Thistle. Used part: whole herb or root. TCM Effects: To cool blood and stanch bleeding, clear heat and disperse swelling. TCM Indications: Coughing of blood, blood ejection, spontaneous external bleeding, hematuria, blood strangury, hematochezia, blood dysentery, flooding and spotting, bleeding due to external injury, swelling toxin of welling abscess and flat abscess. Isolated compounds: 3551, 19087, 20706.
- T1452 *Cissampelos pareira* (Menispermaceae); XI SHENG TENG; Common Cissampelos. Used part: whole herb. TCM Effects: To relieve pain, stanch bleeding, engender flesh. TCM Indications: Knocks and falls, asthma, heart disease. Isolated compounds: 2191, 3747, 3748, 4461, 9250, 9251, 9252, 11329, 14266, 15762, 15792, 16660, 16661, 16662, 18410, 21206.
- T1453 *Cissampelos pareira* var. *hirsute* (Menispermaceae); YA HU NU; Hirsute Cissampelos*. Used part: whole herb. TCM Effects: To relieve pain, stanch bleeding, engender flesh. TCM Indications: Knocks and falls, wind-damp lumbago, heart disease. Isolated compounds: 16660.
- T1454 *Cissus pallida* (Vitaceae); CANG BAI FEN TENG; Pale Treebine*. Isolated compounds: 16550.
- T1455 *Cistanche deserticola* (Orobanchaceae); ROU CONG RONG; Desertliving Cistanche. Equivalent plant: *Cistanche salsa*. Used part: fleshy stem. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, moisten intestines and free stool. TCM Indications: Impotence, infertility, backache, limp aching lumbus and knees, weakness in sinews and bones, intestinal dry and constipation. Isolated compounds: 305, 580, 815, 2156, 2318, 2356, 2446, 2449, 2564, 3749, 3750, 3752, 3753, 3754, 3755, 3757, 3758, 3759, 4680, 4830, 5159, 5189, 6343, 6353, 6422, 6472, 6720, 6952, 8277, 8768, 9359, 9360, 9378, 10141, 12916, 14435, 14525, 14693, 15134, 15669, 15671, 16252, 17093, 18221, 19983, 19996, 20280, 20444, 20555, 21541, 22093, 22094.
- T1456 *Cistanche salsa* (Orobanchaceae); YAN SHENG ROU CONG RONG; Saline Cistanche. Used part: fleshy stem. TCM Effects: See *Cistanche deserticola*. TCM Indications: See *Cistanche deserticola*. Isolated compounds: 580, 3753, 3754, 3755, 3757, 3758, 18221.
- T1457 *Cistanche* sp. (Orobanchaceae). Isolated compounds: 17080.
- T1458 *Cistanche tubulosa* (Orobanchaceae); GUAN HUA ROU CONG RONG; Tubeshaped Flower Cistanche. Isolated compounds: 618, 652, 4225, 4902, 4903, 5159, 9071, 10061, 10141, 11725, 15134, 20555, 22093, 22095, 22096, 22097, 22252.
- T1459 *Cistus parviflorus* (Cistaceae); XIAO XING HUA YAN QIANG WEI. Isolated compounds: 9423.
- T1460 *Citrullus colocynthis* (Cucurbitaceae); YAO XI GUA; Wild Gourd. Isolated compounds: 4317, 4327, 20168.
- T1461 *Citrullus ecirrhosus* (Cucurbitaceae); WU JUAN XU XI GUA; Non-cirrose Citrullus*. Isolated compounds: 4324, 4327.
- T1462 *Citrullus naudinianus* (Cucurbitaceae); NA SHI XI GUA; Naudin Citrullus*. Isolated compounds: 4324.
- T1463 *Citrullus* sp. (Cucurbitaceae). Isolated compounds: 4322.
- T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*] (Cucurbitaceae); XI GUA; Watermelon. Used part: fruit. TCM Effects: To clear heat and resolve summerheat, resolve summerheat and engender liquid, disinhibit urine. TCM Indications: Summerheat-heat vexation and thirst, exuberant heat fluid damage, inhibited urination, throat impediment, mouth sore. Isolated compounds: 1046, 1048, 1063, 3774, 8826, 11752, 17264.
- T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*] (Cucurbitaceae); XI GUA ZI REN; Watermelon Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, harmonize center and moisten intestines. TCM Indications: Hemoptysis, enduring cough, constipation. Isolated compounds: 1063.
- T1466 *Citrus aurantifolia* (Rutaceae); LAI MENG; Lime. Isolated compounds: 11716, 22781.
- T1467 *Citrus aurantium* (Rutaceae); ZHI KE; Seville Orange Unripe Fruit. Equivalent plant: *Poncirus trifoliata*. Used part: unripe fruit. TCM Effects: To break *qi* and move phlegm, harmonize stomach and disperse accumulation. TCM Indications: Phlegm stagnation in chest and diaphragm, glomus in chest, distention in rib-side, food accumulation, retching counterflow. Isolated compounds: 9458, 14796, 15286, 15635, 15882, 19784, 19929, 20434, 22044, 22976.
- T1468 *Citrus aurantium* (Rutaceae); ZHI SHI; Seville Orange Young Fruit.

- Equivalent plant: *Citrus wilsonii*, *Poncirus trifoliata*. Used part: young fruit. TCM Effects: To break *qi* and dissipate glomus, disperse phlegm and transform accumulation. TCM Indications: Shock, indigestion, ptosis of anus or uterus, cardiac failure, distention fullness in chest and abdomen, phlegm aggregation. Isolated compounds: 1497, 9458, 9964, 11493, 11716, 12847, 12987, 14796, 15286, 15404, 15656, 15657, 19929, 20552, 20670, 21185, 21913.
- T1469 *Citrus aurantium* var. *amara* (Rutaceae); DAI DAI HUA; Bitter Citrus. Used part: dried flower bud. TCM Effects: To regulate *qi*, soothe liver, harmonize stomach. TCM Indications: Oppression in chest due to glomus, distending pain in stomach duct and abdomen, vomiting, reduced food intake. Isolated compounds: 3763, 3764, 3768, 7734, 11824, 14142, 15498, 15500, 20998.
- T1470 *Citrus bergamia* (Rutaceae); XIANG NING MENG; Bergamot Orange. Isolated compounds: 2309.
- T1471 *Citrus chachiensis* (Rutaceae); GAN; Chachi Citrus. Equivalent plant: *Citrus unshiu*, *Citrus tankan*, *Citrus cultivars*, *Citrus decumana*. Used part: fruit. TCM Effects: To engender liquid and allay thirst, arouse liquor, disinhibit urine. TCM Indications: Heat vexation in chest, drunkenness, inhibited urination. Isolated compounds: no.
- T1472 *Citrus chachiensis* (Rutaceae); GAN PI; Chachi Citrus Pericarp. Equivalent plant: *Citrus tankan*. Used part: pericarp. TCM Effects: To precipitate *qi* and regulate center, transform phlegm, arouse liquor. TCM Indications: Dietary imbalance after illness, *qi* ascent with vexation and fullness, liquor damage with thirst. Isolated compounds: 4473, 9458, 14796, 20552.
- T1473 *Citrus cultivars* (Rutaceae); ZAI PEI GAN JU; Cultivated Citrus*. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 8307.
- T1474 *Citrus decumana* (Rutaceae); ZHU LUAN; Pomelo. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 15286, 17829.
- T1475 *Citrus depressa* (Rutaceae); BIAN PING JU; Depressed Orange. Isolated compounds: 17829.
- T1476 *Citrus erythroa* (Rutaceae); ZHU JU; Red Orange. Used part: fruit. TCM Effects: See *Citrus tangemna*. TCM Indications: See *Citrus tangemna*. Isolated compounds: 3241, 4029, 9669, 15655.
- T1477 *Citrus funadoko* (Rutaceae); ZHOU CHANG JU; Funadoko Orange*. Isolated compounds: 17829.
- T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo. Used part: fruit. TCM Effects: To disperse food, transform phlegm, arouse liquor. TCM Indications: Food stagnation, inappetence, drunkenness. Isolated compounds: 1497, 14142, 15279, 15282, 15286, 15882, 17705, 21185, 21913, 22195.
- T1479 *Citrus grandis* (Rutaceae); YOU HE; Pummelo Seed. Used part: seed. TCM Effects: To course liver and rectify *qi*, diffuse lung and suppress cough. TCM Indications: Mounting *qi*, lung cold cough. Isolated compounds: 4757, 15882.
- T1480 *Citrus grandis* cv. x *Citrus paradisi* (Rutaceae); YOU PU TAO YOU ZA JIAO ZHONG. Isolated compounds: 7904.
- T1481 *Citrus grandis* f. *buntan* (Rutaceae); WEN DAN YOU; Buntan Pummelo*. Isolated compounds: 17829.
- T1482 *Citrus grandis* f. *hakunikuju* (Rutaceae); BAI YOU; White Pummelo*. Isolated compounds: 17829.
- T1483 *Citrus grandis* var. *tomentosa* (Rutaceae); HUA ZHOU YOU; Tomentase Pummelo. Used part: maturescent exocarp. TCM Effects: To dry damp and transform phlegm, rectify *qi*, disperse food. TCM Indications: Wind-cold cough and asthma with abundant phlegm, vomiting and hiccough, non-digestion of food accumulation, distending pain in stomach duct and abdomen. Isolated compounds: 1497, 11716, 15279, 15286, 19929, 20670, 21913.
- T1484 *Citrus hassaku* (Rutaceae). Isolated compounds: 5063, 5686, 8981, 11970, 14092, 15737, 16257, 16260, 19784, 22777, 22781.
- T1485 *Citrus jambhiri* (Rutaceae). Isolated compounds: 3788, 5098, 15737, 17706, 22781.
- T1486 *Citrus junos* (Rutaceae); CHENG ZI; Fragrant Citrus. Used part: fruit. TCM Effects: To loosen chest and disinhibit *qi*, harmonize center and promote digestion, resolve liquor, resolve toxin of fish and crab. TCM Indications: Nausea and vomiting, oppression in chest and abdomen distention, goiter and tuberculosis, drunkenness. Isolated compounds: 3761, 3788, 5134, 6498, 7909, 11493, 12847, 15655, 15656, 15737, 15882, 16260, 17706, 19784, 22777.
- T1487 *Citrus junos* (Rutaceae); CHENG ZI HE; Fragrant Citrus Seed. Used part: seed. TCM Effects: To rectify *qi* and relieve pain. TCM Indications: Mounting *qi*, strangury, lumbago. Isolated compounds: 12847, 15655, 15882.
- T1488 *Citrus junos* (Rutaceae); CHENG ZI PI; Pericarp. Used part: pericarp. TCM Effects: To transform phlegm, disinhibit diaphragm, disperse food, check vomiting. TCM Indications: *Qi* stagnation in chest and diaphragm, cough with profuse phlegm, non-digestion of food accumulation, nausea and vomiting, drunkenness. Isolated compounds: 3761, 8343, 8344.
- T1489 *Citrus kinokuni* (Rutaceae); RU JU; Kinokuni Citrus. Isolated compounds: 10593, 16865, 16866.
- T1490 *Citrus limon* (Rutaceae); NING MENG; Lemon. Equivalent plant: *Citrus limonia*. Used part: fruit. TCM Effects: To engender liquid and allay thirst, dispel summerheat, quiet fetus. TCM Indications: Stomach heat fluid damage, summerheat stroke with vexation and thirst, inappetence, glomus distention in stomach duct and abdomen, lung heat dry cough, vomiting in pregnancy. Isolated compounds: 1956, 2887, 3760, 3767, 3770, 4135, 6454, 8313, 9044, 9456, 9458, 11492, 12839, 12841, 12850, 13126, 15286, 18421, 19912, 22520, 22781.
- T1491 *Citrus limon* (Rutaceae); NING MENG GEN; Lemon Root. Equivalent plant: *Citrus limonia*. Used part: root. TCM Effects: To dispel stasis and relieve pain. TCM Indications: Knocks and falls, rabid dog bite. Isolated compounds: 4134, 7768, 10640, 10641, 22781.
- T1492 *Citrus limon* (Rutaceae); NING MENG PI; Lemon Pericarp. Equivalent plant: *Citrus limonia*. Used part: pericarp. TCM Effects: To soothe stagnation and move *qi*, fortify stomach and relieve pain. TCM Indications: Blood stasis and abdominal pain, menstrual disorder, no thought of food and drink. Isolated compounds: 2011, 2012, 2455, 2887, 6454, 7768, 8313, 9458, 11650, 15286, 15404, 18344, 19912.
- T1493 *Citrus limon* (Rutaceae); NING MENG YE; Lemon Leaf. Equivalent plant: *Citrus limonia*. Used part: leaf. TCM Effects: To relieve cough and transform phlegm, rectify *qi* and harmonize stomach, check diarrhea. TCM Indications: Cough and asthma, abdominal distention,

- diarrhea. Isolated compounds: 663, 4134, 17168.
- T1494 *Citrus limonia* (Rutaceae); LI MENG; Lemonlike Citrus. Used part: fruit. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 663, 3760, 3767, 13126, 22336, 22520.
- T1495 *Citrus limonia* (Rutaceae); LI MENG GEN; Lemonlike Citrus Root. Used part: root. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 4133, 8307, 10608, 10642, 19912.
- T1496 *Citrus limonia* (Rutaceae); LI MENG PI; Lemonlike Citrus Pericarp. Used part: pericarp. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 9458, 19983, 19984.
- T1497 *Citrus limonia* (Rutaceae); LI MENG YE; Lemonlike Citrus Leaf. Used part: leaf. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 7768, 8307, 10608, 13126, 19912, 22520.
- T1498 *Citrus medica* (Rutaceae); JU YUAN; Medicinal Citron. Equivalent plant: *Citrus wilsonii*. Used part: fruit. TCM Effects: To rectify *qi* and downbear counterflow, strengthen spleen, transform phlegm. TCM Indications: Oppression in chest, pain in rib-side, distending pain in stomach duct, belching and low food intake, vomiting due to liver stomach *qi* stagnation, phlegm-damp congestion, cough with profuse phlegm. Isolated compounds: 3760, 3766, 3770, 4680, 8313, 9458, 12843, 12850, 13419, 15882, 17055, 17264, 20444.
- T1499 *Citrus medica* (Rutaceae); JU YUAN YE; Medicinal Citron Leaf. Isolated compounds: 3770, 11601.
- T1500 *Citrus medica* var. *etrog* (Rutaceae). Isolated compounds: 3788, 7913, 9643, 11970, 15737, 17706, 19540, 19542, 22195, 22781.
- T1501 *Citrus medica* var. *sarcodactylis* (Rutaceae); FO SHOU; Fleshfingered Citron. Used part: fruit. TCM Effects: To rectify *qi* and relieve pain, fortify stomach and resolve phlegm. TCM Indications: Stomachache, distention in rib-side, vomiting, dysphagia-occlusion, phlegm-rheum cough asthma. Isolated compounds: 3770, 4493, 4494, 6454, 9458, 12836, 12837, 21707, 21854.
- T1502 *Citrus nobilis* (Rutaceae); CHUAN JU; King Orange. Isolated compounds: 15635.
- T1503 *Citrus paradisi* (Rutaceae); PU TAO YOU; Grapefruit. Isolated compounds: 15286, 15705, 20434.
- T1505 *Citrus paradisi* x *Citrus tangerina* (Rutaceae); PU TAO YOU DA HONG JU ZA JIAO ZHONG. Isolated compounds: 3779, 13002.
- T1504 *Citrus reticulata* (Rutaceae); JU HE; Tangerine Seed. Used part: seed. TCM Effects: To rectify *qi* and relieve pain, resolve binds. TCM Indications: Mounting *qi*, painful swollen testes, mammary welling abscess, lumbago, bladder *qi* pain. Isolated compounds: 15655, 15882.
- T1506 *Citrus reticulata* (Rutaceae); JU PI; Tangerine Pericarp. Used part: pericarp. TCM Effects: To rectify *qi* and downbear counterflow, regulate center and increase appetite, dry damp and transform phlegm. TCM Indications: Spleen-stomach *qi* stagnation and damp obstruction, lung *qi* block, cough with profuse phlegm, mammary welling abscess, indigestion, vomiting. Isolated compounds: 2225, 2275, 2452, 3195, 3231, 3762, 3767, 3768, 4550, 4833, 5088, 6385, 7582, 7729, 9458, 9510, 9674, 10594, 10751, 10752, 10796, 11617, 11618, 11619, 11716, 12843, 12847, 12849, 13728, 15146, 15286, 15498, 15635, 15636, 15925, 15973, 15977, 16871, 16930, 17055, 17376, 19039, 19100, 19211, 19927, 19929, 19983, 20552, 20670, 20988, 20990, 20995, 20998, 21185, 21349, 21360, 21858, 21913, 22976.
- T1507 *Citrus rugulosa* (Rutaceae). Isolated compounds: 5098, 7909, 11970, 16257, 16260, 17706, 19784, 22781.
- T1508 *Citrus sinensis* (Rutaceae); TIAN CHENG; Sweet Orange. Used part: ripe fruit. TCM Effects: To move *qi*, precipitate *qi*, relieve pain, disperse distention, free milk. TCM Indications: Galactostasis. Isolated compounds: 3214, 3760, 9456, 11692, 12839, 12848, 15135, 15266, 15283, 15287, 15500, 15636, 15882, 17171, 19927, 19928, 19929, 21913, 22854.
- T1509 *Citrus* sp. (Rutaceae). Isolated compounds: 2833, 11025, 13126, 13212, 15287, 15393, 16261, 17376, 17705, 20566, 20670.
- T1510 *Citrus* spp. (Rutaceae). Isolated compounds: 12840, 12847, 15278, 17090.
- T1511 *Citrus sudachii* (Rutaceae); SU DA QI GAN JU; Sudach Citrus*. Isolated compounds: 9564, 10958, 12847, 14524, 15882, 20448, 20449, 20450, 22768.
- T1512 *Citrus sulcata* (Rutaceae). Isolated compounds: 5098, 7909, 9643, 10710, 16257, 16260, 19540, 22195.
- T1513 *Citrus tachibana* (Rutaceae); LI HUA JU; Japanese Tachibana. Isolated compounds: 5098, 11970, 12220, 16260, 17706, 19784, 21499, 22781.
- T1514 *Citrus tamurana* (Rutaceae). Isolated compounds: 3788, 5098, 7203, 8980, 9643, 10710, 14092, 15737, 16257, 16260, 17706, 19540, 21499, 22777, 22781.
- T1515 *Citrus tangemna* (Rutaceae); FU JU; Blessing Citrus*. Equivalent plant: *Citrus erythroa*. Used part: fruit. TCM Effects: To moisten lung and engender liquid, rectify *qi* and harmonize stomach. TCM Indications: Diabetes mellitus, retching counterflow, *qi* bind in chest and diaphragm. Isolated compounds: 3241, 4029, 9669, 15655, 15882.
- T1516 *Citrus tankan* (Rutaceae); JIAO GAN; Tankan Citrus. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9458, 11716, 15635, 19929, 20369, 21185, 22781.
- T1517 *Citrus tankan* (Rutaceae); JIAO GAN PI; Tankan Citrus Pericarp. Used part: pericarp. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9458, 15635.
- T1518 *Citrus unshiu* (Rutaceae); WU HE MI JU; Satsuma. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9456, 9458, 11691, 15279, 15286, 15404.
- T1519 [*Citrus unshiu* x *Citrus sinensis*] x *Citrus iyo* (Rutaceae); SAN ZHONG JU ZA JIAO ZHONG [xx]. Isolated compounds: 22194.
- T1520 *Citrus wilsonii* (Rutaceae); XIANG YUAN; Wilson Citron. Used part: fruit. TCM Effects: See *Citrus medica*. TCM Indications: See *Citrus medica*. Isolated compounds: 2017, 3770, 13127, 15882, 22920.
- T1521 *Citrus wilsonii* (Rutaceae); XIANG YUAN ZHI SHI; Wilson Orange Young Fruit. Used part: young fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 14796.
- T1522 *Citrus yuko* (Rutaceae); YU KE GAN JU; Yuko Citrus*. Isolated compounds: 15882.
- T1523 *Cladonia chlorophaea* (Cladoniaceae); LA BA FEN SHI RUI. Isolated compounds: 16571.
- T1524 *Cladonia convoluta* (Cladoniaceae); ZONG JUAN SHI RUI. Isolated

- compounds: 7998, 14697, 17970, 22281.
- T1525 *Cladonia fallax* (Cladoniaceae); JIN SHUA BA; Fallax Cladonia Lichen. Used part: lichen. TCM Effects: To relieve pain, calm. TCM Indications: Epilepsy, schizophrenia, neurasthenia, dizziness and dim vision. Isolated compounds: 7996, 7998, 22282.
- T1526 *Cladonia rangiferina* (Cladoniaceae); SHI RUI; Reindeer Moss. Used part: herb. TCM Effects: To clear heat, moisten dryness, cool liver, transform phlegm, disinhibit damp. TCM Indications: heat vexation and disquiet, dry throat and phlegm node, dim vision and eye screen, heat strangury, jaundice. Isolated compounds: 1990, 7996, 7998.
- T1527 *Cladonia* sp. (Cladoniaceae). Isolated compounds: 22282.
- T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*] (Cladoniaceae); TAI BAI HUA; Stellate Cladonia. Used part: branch-like body. TCM Effects: To calm liver and brighten eyes, regulate menstruation and stanch bleeding. TCM Indications: Wind yang harassing upper body, dizziness and dim vision, migraine, eye diseases, nosebleed(epistaxis), menstrual disorder, leukorrhea. Isolated compounds: 7951, 16967, 18090, 22282.
- T1529 *Cladonia verticillata* (Cladoniaceae); XIAO LA BA; Verticillate Cladonia. Used part: herb. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Cough, bleeding due to external injury, scalds. Isolated compounds: 7661, 15798, 20342.
Cladosiphon decipiens = *Nemacystus decipiens*
- T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*] (Rutaceae); JIU CENG FENG. Used part: whole herb. TCM Effects: To dispel wind and remove damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, dysentery, diarrhea. Isolated compounds: 18722, 18723, 18727.
- T1531 *Cladrastis* spp. (Fabaceae). Isolated compounds: 3004.
- T1532 *Clausena anisata* (Rutaceae); BA JIAO HUANG PI; Octet Wampee*. Isolated compounds: 1186, 16261.
- T1533 *Clausena dentata* (Rutaceae); YE HUANG PI; Henry Wampee. Used part: leaf and root. TCM Effects: To soothe wind and rectify qi, dispel damp and transform stasis. TCM Indications: Common cold, measles papules, asthma, stomachache, rheumatism, edema, sprain and contusion, fracture, dislocation. Isolated compounds: 5134, 15737.
- T1534 *Clausena dunniana* (Rutaceae); HEI GUO HUANG PI; Dunn Wampee. Used part: leaf and root. TCM Effects: To soothe wind and rectify qi, dispel damp and transform stasis. TCM Indications: Common cold, measles papules, asthma, stomachache, rheumatism, edema, sprain and contusion, fracture, dislocation. Isolated compounds: 6637, 6638.
Clausena euchrestifolia = *Murraya euchrestifolia*
- T1535 *Clausena excavata* (Rutaceae); SHAN HUANG PI; Hollowed Wampee. Used part: branchlet-leaf. TCM Effects: To course wind and resolve exterior, move qi and relieve pain, interrupt malaria, kill worms. TCM Indications: Infection of upper respiratory tract, influenza, malaria, abdominal pain, knocks and falls, fracture. Isolated compounds: 3788, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 5134, 6296, 7897, 8832, 9410, 10126, 10478, 14216, 14217, 14254, 15027, 15028, 15118, 15737, 22777, 22971.
- T1536 *Clausena heptaphylla* (Rutaceae); QI YE HUANG PI; Heptaleaf Wampee*. Isolated compounds: 9410, 14144, 14216.
- T1537 *Clausena lansium* (Rutaceae); HUANG PI GEN; Chinese Wampee Root. Used part: root. TCM Effects: To move qi and relieve pain. TCM Indications: Qi stagnation stomachache, abdominal pain, mounting pain, wind-damp bone pain, dysmenorrhea. Isolated compounds: 16154.
- T1538 *Clausena lansium* (Rutaceae); HUANG PI YE; Chinese Wampee Leaf. Used part: leaf. TCM Effects: To course wind and resolve exterior, move qi and transform phlegm. TCM Indications: Warm disease fever, cough and asthma, qi distention abdominal pain, yellow swelling, malaria, inhibited urination, heat toxin scab and lai. Isolated compounds: 3789, 4484, 15366.
- T1539 *Clausena* sp. (Rutaceae). Isolated compounds: 16261.
- T1540 *Claviceps paspali* (Clavicipitaceae); QUE BAI MAI JIAO; Paspalum Ergot*. Isolated compounds: 11516.
- T1541 *Claviceps purpurea* (Clavicipitaceae); MAI JIAO; Ergot. Used part: sclerotium. TCM Effects: To contract uterus and stanch bleeding, relieve pain. TCM Indications: Postpartum bleeding, migraine. Isolated compounds: 351, 749, 763, 3477, 3814, 4125, 6765, 7231, 7232, 7233, 7234, 7235, 7236, 7237, 7238, 7240, 7241, 7242, 7243, 7244, 7250, 7252, 7253, 7254, 9071, 9530, 9568, 11516, 11712, 13256, 14133, 14410, 14411, 14412, 14413, 16808, 19599, 19600, 19601, 19602, 19605, 19789, 22158, 22558.
- T1542 *Clavularia viridis* CHONG SHENG RUAN SHAN HU; Okinawan Softcoral Clavularia viridis. Isolated compounds: 17773, 17774, 17775.
- T1543 *Cleistanthus collinus* (Euphorbiaceae); QIU SHENG BI HUA MU. Isolated compounds: 3816.
- T1544 *Cleistocalyx operculatus* (Myrtaceae); SHUI RONG; Lidded Cleistocalyx. Used part: bud. TCM Effects: To clear heat and resolve toxin, dispel summerheat and engender liquid, disperse stagnation and disinhibit damp. TCM Indications: Fever and headache due to external contraction, summerheat-heat and vexation and thirst, heat toxin diarrhea dysentery, accumulation with abdominal distention. Isolated compounds: 7903, 7905.
- T1545 *Clematis chinensis* (Ranunculaceae); WEI LING XIAN; Chinese Clematis. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain. TCM Indications: Common cold, tonsillitis, acute icterohepatitis, laryngitis, rheumatic arthritis, wind-damp impediment pain, numbness in limbs, hypertonicity of sinews and vessels, bone stuck in throat. Isolated compounds: 1178, 1179, 3340, 3818, 3822, 3824, 3825, 3826, 3827, 5209, 6767, 8727, 8728, 8729, 9260, 9276, 16055, 16056, 16057, 16058, 16060, 16061, 16063, 17943, 17944, 17946, 17947, 17948, 17949, 17950, 18714, 18715, 18716, 18835, 18836.
- T1546 *Clematis tangutica* (Ranunculaceae); GAN QING TIE XIAN LIAN; Tangut Clematis. Used part: whole herb or stem-leaf. TCM Effects: To fortify stomach and disperse accumulation, resolve toxin and transform damp. TCM Indications: Non-digestion of food accumulation, abdominal fullness with glomus and congestion, abdominal pain and diarrhea, welling abscess and sores, damp sore. Isolated compounds: 1572, 8606.
- T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*] (Ranunculaceae);

- BAI HUA TENG; Threeflower Clematis. Used part: root. TCM Effects: To dispel wind and eliminate damp, resolve toxin and disperse swelling, cool blood and stanch bleeding. TCM Indications: Wind-damp impediment pain, swelling toxin of clove sore, throat impediment, snake bite, dog bite, blood ejection, hemoptysis, flooding and spotting. Isolated compounds: 17965.
- T1548 *Clematis tibetana* (Ranunculaceae); XI ZANG TIE XIAN LIAN; Tibet Clematis*. Isolated compounds: 819, 3343, 3819, 3820, 3821, 9275, 9276, 9573, 9695, 17946, 17947, 17949.
- T1549 *Clematoclethra scanden* (Actinidiaceae); GANG MAO TENG SHAN LIU; Hisped Vineclethra. Isolated compounds: 21860.
- T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*] (Capparidaceae); BAI HUA CAI ZI; Common Spiderflower Seed. Used part: seed. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain. TCM Indications: Wind-cold sinew and bone numbness, aching pain in back and shoulder, lumbago, swelling pain due to external injury, bone tuberculosis, hemorrhoids and fistulas. Isolated compounds: 3828.
- T1551 *Cleome icosandra* (Capparidaceae); DUO RUI BAI HUA CAI; Multipistillate Spiderflower*. Isolated compounds: 3829.
- T1552 *Cleome viscosa* (Capparidaceae); HUANG HUA CAO; Yellowflower Spiderflower*. Used part: whole herb. TCM Effects: To dissipate stasis and disperse swelling, dispel wind and relieve pain, engender flesh and cure sores. TCM Indications: Painful swelling from knocks and falls, taxation damage and lumbago, mounting *qi* (hernia), headache, dysentery, ulcerating sores, purulence in ear top, red eyes and itch-pain, strangury-turbidity and vaginal discharge. Isolated compounds: 3829.
- T1553 *Clerodendranthus spicatus* (Lamiaceae); MAO XU CAO; Spicate Clerodendranthus. Used part: whole herb. TCM Effects: To clear heat and dispel damp, expel stone and disinhibit water. TCM Indications: Acute nephritis, chronic nephritis, cystitis, urethral stone, rheumatic arthritis. Isolated compounds: 11085, 16050, 19211, 19929, 22270.
- T1554 *Clerodendron cyrtophyllum* (Verbenaceae); LU BIAN QING; Manyflower Glorybower Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Febrile diseases due to external contraction, exuberant heat and vexation thirst, swelling pain in throat, mouth sore, jaundice, heat toxin dysentery, acute enteritis, swelling toxin of welling abscess and flat abscess, spontaneous external bleeding, blood strangury, bleeding due to external injury. Isolated compounds: 3842, 3844, 4589, 7951, 16822, 19984, 20369, 20465.
- T1555 *Clerodendron fortunatum* (Verbenaceae); GUI DENG LONG; Redcalyx Glotybower. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough and dispel wind. TCM Indications: Common cold, throat pain, cough, lung disease, stomachache, abdominal pain, swollen boil, knocks and falls, rheumatism. Isolated compounds: 3841, 3842, 3843, 3844.
- T1556 *Clerodendron fragrans* (Verbenaceae); CHOU MO LI; Fragrant Glorybower. Used part: root and leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling. TCM Indications: Wind-damp bone pain, beriberi, edema, hemorrhoids, prolapse of rectum, itchy papules, scab sore, chronic medullitis. Isolated compounds: 4434, 7428, 9564, 10351, 16777, 19582, 19587.
- T1557 *Clerodendron indicum* (Verbenaceae); CHANG GUAN JIA MO LI; Indian Glorybower. Used part: whole herb. TCM Effects: To eliminate inflammation and disinhibit urine, quicken blood and disperse swelling, dispel wind-damp. TCM Indications: Urinary tract infection, cystitis, sprain from knocks and falls, wind-damp bone pain. Isolated compounds: 9564, 21534.
- T1558 *Clerodendron inerme* (Verbenaceae); SHUI HU MAN; Unarmed Glorybower. Used part: branchlet-leaf. TCM Effects: To dispel stasis, disperse swelling, eliminate damp, kill worms. TCM Indications: Stasis swelling from knocks and falls, eczema, sore and scab. Isolated compounds: 3585, 7428, 19211.
- T1559 *Clerodendron infortunatum* (Verbenaceae); QIAN YU DA QING; Unfortunate Glorybower. Isolated compounds: 3841.
- T1560 *Clerodendron myricoides* (Verbenaceae); YANG MEI CHANG SHAN; Bayberry Glorybower*. Isolated compounds: 15189.
- T1561 *Clerodendron serratum* (Verbenaceae); SAN TAI HONG HUA; Serrate Glorybower. Equivalent plant: *Clerodendrum serratum* var. *amplexifolium*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dissipate stasis and relieve pain, resolve toxin and disperse swelling, interrupt malaria. TCM Indications: Damp-heat dysentery, strangury syndrome, wind-damp-heat impediment, blood stasis and dysmenorrhea, knocks and falls, swelling pain in throat, swelling toxin of welling abscess and flat abscess, urticaria, malaria. Isolated compounds: 13504, 18415, 19765.
- T1562 *Clerodendron trichotomum* (Verbenaceae); CHOU WU TONG; Harlequin Glorybower Leaf. Used part: leaf. TCM Effects: To dispel wind-damp, lower blood pressure, interrupt malaria. TCM Indications: Hypertension, malaria, wind-damp impediment, numbness in limbs, hemiplegia, migraine, dysentery, hemorrhoids, welling abscess and flat abscess, scab sore. Isolated compounds: 58, 3837, 21578.
- T1563 *Clerodendron trichotomum* (Verbenaceae); CHOU WU TONG GEN; Harlequin Glorybower Root. Used part: root. TCM Effects: To dispel wind and relieve pain, move *qi* and disperse food. TCM Indications: Malaria, wind-damp impediment pain, hypertension, food accumulation, child *gan* accumulation, knocks and falls. Isolated compounds: 3842, 3843, 3844.
- T1564 *Clerodendron trichotomum* var. *fargesii* (Verbenaceae); AI TONG ZI; Farges Glorybower*. Isolated compounds: 3839.
- T1565 *Clerodendrum bungei* (Verbenaceae); CHOU MU DAN; Rose Glorybower (Clerodendrum). Used part: stem-leaf. TCM Effects: To resolve toxin and disperse swelling, dispel wind-damp, lower blood pressure. TCM Indications: Welling abscess and flat abscess, clove sore, effusion of back, mammary welling abscess, hemorrhoids, eczema, erysipelas, wind-damp impediment pain, hypertension. Isolated compounds: 2746, 3838.
- T1566 *Clerodendrum inerme* (Verbenaceae); KU LANG SHU; Unarmed Glorybower. TCM Effects: To dispel stasis and stanch bleeding, dry damp and kill worms. TCM Indications: Knocks and falls, blood stasis swelling and pain, blood ejection due to internal damage, bleeding due to external injury, sore lichen and scab *lai*, eczema with pruritus. Isolated compounds: 5670, 7429, 11033, 11034, 14432, 15667, 16825, 18599, 19228, 19229.

- T1567 *Clerodendrum mandarinorum* (Verbenaceae); HAI TONG; Tomentose Glorybower. Used part: branch-leaf. TCM Effects: To dispel wind and free network vessels. TCM Indications: Hemiplegia, sequel of poliomyelitis. Isolated compounds: 13477.
- T1568 *Clerodendrum nucinatum* (Verbenaceae). Isolated compounds: 22213.
- T1569 *Clerodendrum serratum* var. *amplexifolium* (Verbenaceae); SAN TAI HUA; Amplexifolious Glorybower. Used part: whole herb. TCM Effects: See *Clerodendron serratum*. TCM Indications: See *Clerodendron serratum*. Isolated compounds: 19775.
- T1570 *Clerodendrum thomsonae* (Verbenaceae); LONG TU ZHU; Bleedingheart Glorybower. Used part: whole herb. TCM Effects: To resolve toxin. TCM Indications: Knocks and falls, chronic tympanitis. Isolated compounds: 409, 816, 2004, 13710, 18628.
- T1571 *Cleyera ochracea* [Syn. *Cleyera japonica*] (Theaceae); YANG TONG; Japanese Cleyera. Isolated compounds: 10513.
- T1572 *Clinacanthus siamensis* (Acanthaceae); TAI GUO NIU XU HUA; Thailand Clinacanthus*; Lin-Nguu-Hao (Thai name). Isolated compounds: 6809, 6810, 14729, 14731, 14758.
- T1573 *Clinopodium chinense* (Lamiaceae); FENG LUN CAI; Chinese Clinopodium. Used part: whole herb. TCM Effects: To course wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Common cold, summerheat stroke, acute cholecystitis, hepatitis, enteritis, dysentery, parotitis, mastitis, swelling toxin of clove sore, allergic dermatitis, acute conjunctivitis. Isolated compounds: 3845, 11691.
- T1574 *Clintonia alpina* (Liliaceae); LEI GONG QI; Common Broadlily. Used part: whole herb. TCM Effects: To dissipate stasis and relieve pain. TCM Indications: Knocks and falls. Isolated compounds: 9334.
- T1575 *Cliona celata* (Clionidae) YIN JU CHUAN BEI HAI MIAN; Burrowing sponge. Isolated compounds: 17729.
- T1576 *Clitocybe clavipes* (Tricholomataceae) BANG BING BEI SAN; Fat-footed Clitocybe. Isolated compounds: 3811, 3812.
- T1577 *Clitoria ternatea* (Fabaceae); HU DIE HUA DOU; Asian Pigeonwings. Used part: seed. TCM Effects: To relieve pain. TCM Indications: Pain in joints. Isolated compounds: 618, 5029, 5030, 12088, 15175, 18389.
- T1578 *Clivia miniata* (Amaryllidaceae); JUN ZI LAN; Scarlet Kafirily. Isolated compounds: 9547, 13241.
- T1579 *Cneorum pulverulentum* (Cneoraceae); BEI FEN NAI AO LE MU. Isolated compounds: 18097.
- T1580 *Cnicus benedictu* DI ZHONG HAI JU. Isolated compounds: 15806, 15809.
- T1581 *Cnidium japonicum* (Apiaceae); BING SHE CHUANG; Japanese Cnidium. Isolated compounds: 1619.
- T1582 *Cnidium monnieri* (Apiaceae); SHE CHUANG ZI; Common Cnidium. Used part: fruit. TCM Effects: To warm kidney and invigorate yang, dispel wind, dry damp, kill worms. TCM Indications: Impotence, scrotal damp itch, vaginal discharge, pudendal itch, trichomoniasis, eczema, infertility due to uterus cold, wind-damp impediment pain, scab and lichen, damp sore. Isolated compounds: 316, 933, 1619, 2309, 2309, 3854, 3857, 3935, 3936, 3937, 6709, 11001, 11297, 11601, 11755, 11761, 13725, 16261, 18443, 22203, 22774, 22774, 22775.
- T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*] (Apiaceae); YAO YONG SHE CHUANG; Medicinal Ligusticum. Used part: rhizome. TCM Effects: See *Ligusticum chuanxiong*. TCM Indications: See *Ligusticum chuanxiong*. Isolated compounds: 2797, 12825.
- T1584 *Cocculus carolinus* (Menispermaceae); MEI GUO QING TENG; Carolina Snailseed*. Isolated compounds: 3864.
- T1585 *Cocculus indicus* (Menispermaceae); YIN DU MU FANG JI; Indian Snailseed*. Isolated compounds: 17347, 17349.
- T1586 *Cocculus laurifolius* (Menispermaceae); HENG ZHOU WU YAO; Laurelleaf Snailseed. Used part: root or whole herb. TCM Effects: To normalize qi and loosen chest, dispel wind and relieve pain. TCM Indications: Hypertension, headache, mounting qi, abdominal pain, rheumatic pain in legs. Isolated compounds: 3862, 3863, 3878, 7337, 11337, 12571, 14247, 18655, 21887.
- T1587 *Cocculus laeabe* (Menispermaceae); Cocculus laeabe. Isolated compounds: 16439.
- T1588 *Cocculus pendulus* (Menispermaceae); CHUI MU FANG JI; Drooping Snailseed*. Isolated compounds: 3881, 3882, 3883, 4877, 12351, 12352.
- T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*] (Menispermaceae); MU FANG JI; Japanese Snailseed. Used part: root. TCM Effects: To dispel wind and eliminate damp, free channels and quicken network vessels, resolve toxin, disperse swelling and settle pain. TCM Indications: Wind-damp impediment pain, pain from arthritis, edema, pulmonary edema, edema due to heart disease, neuralgia, dribbling pain of urination, amenorrhea, knocks and falls, swelling pain in throat, toxin swelling of sores, eczema, poisonous snake bite. Isolated compounds: 3864, 3865, 3879, 7024, 11747, 11748, 13374, 13713, 15777, 21877, 21887.
- T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*] (Menispermaceae); QING TENG XIANG; Japanese Snailseed Stem. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, regulate qi and relieve pain, disinherit water and disperse edema. TCM Indications: Wind-damp impediment pain, knocks and falls, stomachache, abdominal pain, edema, strangury syndrome. Isolated compounds: 3864.
- T1591 *Cocos nucifera* (Arecaceae); YE ZI; Coconut. Used part: sarcocarp. TCM Effects: To boost qi and fortify spleen, kill worms, disperse gan. TCM Indications: Gan accumulation, fasciolopsiasis. Isolated compounds: 7387.
- T1592 *Cocos nucifera* (Arecaceae); YE ZI PI; Coconut Root-bark. Used part: root cortex. TCM Effects: To stanch bleeding, relieve pain. TCM Indications: Nosebleed(epistaxis), stomachache, vomiting and diarrhea. Isolated compounds: 3880.
- T1593 *Cocos nucifera* (Arecaceae); YE ZI RANG; Coconut Albumen. Used part: albumen. TCM Effects: To boost qi and fortify spleen, kill worms, disperse gan. TCM Indications: Fasciolopsiasis, gan accumulation. Isolated compounds: 3138, 3139, 3140, 6632, 12569, 15680, 19983, 20168, 20369, 21415, 22555, 22561.
- T1594 *Cocos nucifera* (Arecaceae); YE ZI YOU; Coconut Oil. Used part: oil. TCM Effects: To kill worms and relieve itch, close sores. TCM Indications: Scab and lichen, frostbite. Isolated compounds: 7978.
- T1595 *Codium fragile* (Codiaceae); SHUI SONG; Fragile Codium Frond. Used part: frond. TCM Effects: To clear summerheat and resolve toxin, disinherit water and disperse edema, expel worms. TCM Indications:

- Edema, stream toxin, inhibited urination, ascariasis, hasten delivery. Isolated compounds: 578, 2222, 3844, 6407, 8011, 8025, 8312, 14450, 19964, 19965, 20998.
- T1596 *Codonopsis canescens* (Campanulaceae); HUI MAO DANG SHEN; Greyhair Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 13507, 22843.
- T1597 *Codonopsis clematidea* (Campanulaceae); XIN JIANG DANG SHEN; Clematis Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 3886.
- T1598 *Codonopsis convolvulacea* (Campanulaceae); JI DAN SHEN; Convolvulate Asiabell. Used part: root. TCM Effects: To supplement *qi* and nourish blood, moisten lung and engender liquid. TCM Indications: Blood vacuity, spontaneous sweating, scant breast milk, lung vacuity cough, neurasthenia, mounting *qi*. Isolated compounds: 7465.
- T1599 *Codonopsis pilosula* (Campanulaceae); DANG SHEN; Pilose Asiabell. Equivalent plant: *Codonopsis pilosula* var. *modesta*, *Codonopsis tangshen*, *Codonopsis tubulosa*, *Codonopsis subglobosa*, *Codonopsis canescens*, *Codonopsis clematidea*. Used part: root. TCM Effects: To fortify spleen and supplement lung, boost *qi* and engender liquid. TCM Indications: Spleen-stomach vacuity, reduced food intake and sloppy stool, lassitude in limbs, cough and asthma due to lung vacuity, shortness of breath and spontaneous sweating, *qi*-blood depletion. Isolated compounds: 1966, 1967, 2056, 2788, 3139, 3140, 3589, 3887, 4390, 4672, 6188, 6534, 6795, 7438, 7469, 7768, 7951, 7971, 8012, 8817, 9042, 9359, 9360, 9378, 9486, 9531, 10493, 10669, 12569, 13507, 13823, 13931, 14023, 14053, 14215, 14484, 14610, 14629, 14655, 15203, 15527, 15528, 15671, 15675, 15678, 15684, 15948, 16830, 16831, 16968, 17093, 17376, 18267, 18739, 18837, 20168, 20169, 20351, 20352, 20367, 20368, 20369, 20372, 20554, 20569, 20672, 20711, 20713, 22843.
- T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (Campanulaceae); SU HUA DANG SHEN; Moderate Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 7951, 8817, 13823, 16968, 17093, 20369, 20711, 20713.
- T1601 *Codonopsis subglobosa* (Campanulaceae); QIU HUA DANG SHEN; Subglobose Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 1967, 7951, 8817, 13507, 13823, 17093, 20369, 20711, 20713, 22843.
- T1602 *Codonopsis tangshen* (Campanulaceae); CHUAN DANG SHEN; Szechwan Tangshen. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 1967, 3887, 7951, 8817, 9525, 9527, 9528, 9529, 9532, 9533, 13507, 13823, 16968, 17093, 20369, 20569, 20672, 20673, 20674, 20675, 20711, 20713, 22843.
- T1603 *Codonopsis tubulosa* (Campanulaceae); GUAN HUA DANG SHEN; Tubularflower Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 13507, 22843.
- T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*] (Orchidaceae); AO SHE LAN; Frog Orchid. Used part: tuber. TCM Effects: See *Gymnadenia conopsea*. TCM Indications: See *Gymnadenia conopsea*. Isolated compounds: 3892, 10627, 16168.
- T1605 *Coelogyne cristata* (Orchidaceae); MAO CHUN BEI MU LAN; Cristate Coelogyne. Isolated compounds: 3889, 3890, 3891.
- T1606 *Coelogyne ovalis* (Orchidaceae); BEI MU LAN; Common Coelogyne. Isolated compounds: 3889, 7811.
- T1607 *Coelospermum billardieri* (Rubiaceae); XIN SU GE LAN XUE GUO MU; Newcaledonian Coelospermum*. Isolated compounds: 3888.
- T1608 *Coffea arabica* (Rubiaceae); XIAO GUO KA FEI; Arabian Coffeetree. Equivalent plant: *Coffea liberica*. Used part: seed. TCM Effects: To arouse spirit, disinhibit urine, fortify stomach. TCM Indications: Fatigued spirit, inappetence. Isolated compounds: 1866, 2887, 2892, 3551, 5414, 14166, 14167, 14178.
- T1609 *Coffea excelsa* (Rubiaceae); GAO KA FEI; High Coffee*. Isolated compounds: 2892.
- T1610 *Coffea liberica* (Rubiaceae); DA GUO KA FEI; Liberian Coffee. Used part: seed. TCM Effects: See *Coffea arabica*. TCM Indications: See *Coffea arabica*. Isolated compounds: 2892.
- T1611 *Coffea robusta* (Rubiaceae); CU ZHUANG KA FEI; Robust Coffee*. Isolated compounds: 5414.
- T1612 *Coffea* sp. (Rubiaceae). Isolated compounds: 1886, 2886, 11328.
- T1613 *Coix lacryma-jobi* (Poaceae); YI MI; Adlay. Isolated compounds: 3907, 20369.
- T1614 *Coix lacryma-jobi* var. *ma-yuen* (Poaceae); YI YI REN; Jobstears Seed. Used part: seed. TCM Effects: To fortify spleen and percolate damp, eliminate impediment and check diarrhea, clear heat and expel pus. TCM Indications: Edema, beriberi, inhibited urination, damp impediment and hypertonicity, spleen vacuity diarrhea, pulmonary welling abscess, intestinal welling abscess, flat wart. Isolated compounds: 3906, 3907.
- T1615 *Cola acuminata* (Sterculiaceae); SU DAN KE LE GUO; Acuminated Colanut. Used part: seed. TCM Effects: To raise spirit. Isolated compounds: 2892, 17867, 21310.
- T1616 *Colchicum autumnale* (Liliaceae); QIU SHUI XIAN; Meadow Saffron. Used part: corm. Isolated compounds: 3909, 3910, 3911, 3912.
- T1617 *Coleonema pulchellum* (Rutaceae); MEI LI BU KU; Rutaceae Diosma. Isolated compounds: 17777.
- T1618 *Coleostephus myconis* (Asteraceae); QIAO GUAN JU; Common Coleostephus. Isolated compounds: 15142.
- T1619 *Coleus barbatus* (Lamiaceae); RAN MAO QIAO RUI HUA; Forskahl Coleus. Isolated compounds: 2147.
- T1620 *Coleus forskahlii* (Lamiaceae); MAO HOU QIAO RUI HUA; Forskahl Coleus. Isolated compounds: 3915, 3917, 3918.
Coleus wulfenoides = *Orthosiphon wulfenoides*
- T1621 *Coleus xanthanthus* (Lamiaceae); HUANG QIAO RUI HUA; Yellowflower Coleus. Isolated compounds: 146, 358, 3919, 3920, 3921, 7062, 22748, 22749, 22750, 22751, 22752, 22753, 22754.
- T1622 *Collinsonia canadensis* ER RUI ZI SU. Isolated compounds: 3927.
- T1623 *Collybia albuminosa* (Tricholomataceae); JI ZONG; Collybia Albuminosa Sporocarp. Used part: sporocarp. TCM Effects: To fortify spleen and harmonize stomach. TCM Indications: Distention fullness

- in stomach duct and abdomen, indigestion, fatigued spirit, hemorrhoids. Isolated compounds: 7250.
- T1624 *Colocasia antiquorum* (Araceae); YE YU; Taro. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Mammary welling abscess, toxin swelling, leprosy, scab and lichen, knocks and falls, bee sting. Isolated compounds: 8076, 8078.
- T1625 *Colochirous anceps* KE YI YI SHOU SHEN. Isolated compounds: 3928.
- T1626 *Colophospermum mopane*. Isolated compounds: 5622, 5623, 14546.
- T1627 *Colubrina asiatica* (Rhamnaceae); SHE TENG; Asian Colubrina. Isolated compounds: 3929, 3933.
- T1628 *Colubrina* spp. (Rhamnaceae). Isolated compounds: 15751.
- T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*] (Polypodiaceae); KUAN YU XIAN JUE; Broad-pinna Colysis. Used part: rhizome or whole herb. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp lumbago, knocks and falls. Isolated compounds: 16110.
- T1630 *Combretum albopunctatum* (Combretaceae); BAI DIAN FENG CHE ZI; White-punctated Combretum*. Isolated compounds: 5480, 5966.
- T1631 *Combretum imberbe* (Combretaceae); WU MAO FENG CHE ZI; Glabrous Combretum*. Isolated compounds: 9741, 10227, 10228, 10995.
- T1632 *Combretum yunnanensis* (Combretaceae); YUN NAN FENG CHE ZI; Yunnan Combretum*. Used part: seed. TCM Effects: To kill worms and disperse accumulation. TCM Indications: Abdominal pain due to worm accumulation. Isolated compounds: 492, 6757, 18697.
- T1633 *Commelina communis* (Commelinaceae); YA ZHI CAO; Common Dayflower. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, disperse edema. TCM Indications: Common cold, wind-heat common cold, influenza, noninfectious fever, ardent fever incessant, ascites, edema, hordeolum, swelling pain in throat, scant urine with edema, heat strangury with inhibited pain, swollen welling abscess and toxin of clove. Isolated compounds: 5010, 7817, 7951, 12952, 13440, 13504.
- T1634 *Commiphora confusa* (Burseraceae); HUN XIAO MO YAO; Confuse Myrrh tree*. Isolated compounds: 286, 294, 16844, 21699.
- T1635 *Commiphora kua* (Burseraceae); KU A MO YAO; Kua Myrrh tree*. Isolated compounds: 295, 10497, 21090.
- T1636 *Commiphora kua* var. *gowlollo* (Burseraceae); KEN NI YA MO YAO; Kenya Myrrh tree*. Isolated compounds: 229, 10361.
- T1637 *Commiphora mukul* (Burseraceae); MU KU ER MO YAO; Muhul Myrrh tree*. Isolated compounds: 15208, 15209, 16781.
- T1638 *Commiphora myrrha* [Syn. *Commiphora molmol*] (Burseraceae); MO YAO; Myrrh. Used part: balsam. TCM Effects: To quicken blood and relieve pain, disperse swelling and engender flesh. TCM Indications: Stasis pain in chest and abdomen, amenorrhea, dysmenorrhea, concretion and conglomeration, knocks and falls, swollen welling abscess and sores, intestinal welling abscess, red eyes with gall. Isolated compounds: 3693, 3943, 4232, 4354, 4416, 6482, 7100, 7521, 13932, 13935, 13936, 14115.
- T1639 *Commiphora wightii* (Burseraceae); A MAN SU DAN MO YAO; Sultanate-Oman Myrrh tree*. Isolated compounds: 4925, 9075, 9076, 15124.
- T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*] (Hemionitidaceae); FENG YA JUE; Japanese Coniogramme. Used part: rhizome or whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate blood and relieve pain, clear heat and resolve toxin. TCM Indications: Painful joints due to rheumatism, abdominal pain due to static blood, menstrual block, knocks and falls, red eyes with gall, mammary welling abscess, early stage of toxin swelling. Isolated compounds: 15932, 18159, 18160.
- T1641 *Conioselinum vaginatum* (Apiaceae); XIN JIANG GAO BEN; Vaginate Hemlockparsley. Used part: rhizome. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold common cold, headache, wind-cold-damp impediment, cold-damp abdominal pain, diarrhea, scab and lichen, acne. Isolated compounds: 2803, 3990, 7768, 11552, 12825, 12826, 14012, 15203, 15204, 17805, 22336.
- T1642 *Conium maculatum* (Apiaceae); DU SHEN; Poisonhemlock. Isolated compounds: 2887, 3979, 3988, 14250, 18023.
- T1643 *Connarus ritchiei* (Connaraceae). Isolated compounds: 6767.
- T1644 *Conocephalum conicum* (Urticaceae); SHE TAI; Conic Conocephalus*. Used part: thallus. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, poisonous snake bite, fracture. Isolated compounds: 1493, 2351, 2562, 2587, 2588, 2589, 2596, 13146, 13608, 17811, 22103, 22962, 22963.
- T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*] (Ranunculaceae); FEI YAN CAO; Rocket Consolida. Used part: root and seed. TCM Effects: To promote vomiting, drain precipitation, kill worms. TCM Indications: Scab sore, head louse, knocks and falls. Isolated compounds: 781, 782, 5004, 5010, 5035, 6734.
- T1646 *Consolida ambigua* (Ranunculaceae); LIANG SI FEI YAN CAO; Ambiguous Consolida*. Isolated compounds: 338.
- T1647 *Consolida orientalis* (Ranunculaceae); DONG FANG FEI YAN CAO; Oriental Consolida*. Isolated compounds: 518, 4899, 4998, 5053, 10496.
- T1648 *Consolida pubescens* (Ranunculaceae); DUAN ROU MAO FEI YAN CAO; Shortfluff Consolida*. Isolated compounds: 18174.
- T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*] (Liliaceae); LING LAN; Lily of Valley. Used part: whole herb with root. TCM Effects: To warm yang and disperse water, dispel wind and quicken blood. TCM Indications: Congestive cardiac failure, rheumatic heart disease, paroxysmal tachycardia, edema. Isolated compounds: 2057, 2400, 3501, 4005, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4871, 6853, 7320, 8592, 8593, 10887, 11642, 11674, 12190, 16960, 18781, 21084.
- T1650 *Convolvulus arvensis* (Convolvulaceae); TIAN XUAN HUA; Field Bindweed. Used part: herb and flower. TCM Effects: To dispel wind, relieve pain, relieve itch. TCM Indications: Wind-damp impediment pain, neurodermatitis, toothache. Isolated compounds: 14122.
Convolvulus batatas = *Ipomoea batatas*
- T1651 *Convolvulus cneorum* (Convolvulaceae). Isolated compounds: 3960.
- T1652 *Convolvulus erinaceus* (Convolvulaceae); JI XUAN HUA; Mucronate Glorybind*. Isolated compounds: 4417.
Convolvulus repens = *Ipomoea aquatica*

- T1653 *Convolvulus sabatius* ssp. *sabatius* (Convolvulaceae). Isolated compounds: 5566.
- T1654 *Convolvulus scammonia* (Convolvulaceae); SI GE MENG XUAN HAU; Scammony Glorybind. Isolated compounds: 19542.
- T1655 *Conyza blinii* (Asteraceae); KU HAO; Blin Conyza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, drain fire and stanch bleeding. TCM Indications: Chronic trachitis, tonsillitis, pharyngolaryngitis, stomatitis, nephritis, icterohepatitis, conjunctivitis, otitis media, sores, toothache, nosebleed(epistaxis), hematochezia, flooding and spotting, bleeding due to external injury. Isolated compounds: 2887, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 6918, 18317, 20168, 20444, 21541.
- T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*] (Asteraceae); XIANG SI CAO; Bona Conyza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, eliminate damp and relieve pain, stanch bleeding. TCM Indications: Common cold, malaria, rheumatic arthritis, swelling and pus of sores, bleeding due to external injury. Isolated compounds: 2540, 3318, 10006, 10670.
- T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*] (Asteraceae); QI ZHOU YI ZHI HAO *Conyza canadensis* *Erigeron canadensis*; Horseweed Fleabane. Used part: whole herb. TCM Effects: To clear heat and disinherit damp, dissipate stasis and disperse swelling. TCM Indications: Dysentery, enteritis, hepatitis, cholecystitis, knocks and falls, wind-damp bone pain, swelling pain of sore and boil, bleeding due to external injury, psoriasis. Isolated compounds: 2281, 3391, 4360, 4946, 5904, 12894, 13603, 20566, 21741, 21742.
- T1658 *Conyza stricta* (Asteraceae); JIAN TENG BAI JIU CAO; Strict Conyza. Isolated compounds: 9423.
- T1659 *Coprinopsis episcopalis* Fungus *Coprinopsis episcopalis*. Isolated compounds: 10991, 10992, 10993, 10994.
- T1660 *Coprinus atramentarius* (Agaricaceae); GUI GAI; Coprinus Sporocarp. Used part: sporocarp. TCM Effects: To boost intestines and stomach, rectify *qi* and transform phlegm, resolve toxin and disperse swelling. TCM Indications: Inappetence, cough with phlegm, child epilepsy, swelling of clove, malign sore. Isolated compounds: 617, 4030, 9067, 10913, 10997, 10998, 10999, 11219, 13098, 17083, 22060, 22260.
- T1661 *Coprosma linearifolia* (Rubiaceae). Isolated compounds: 15734.
- T1662 *Coptis chinensis* (Ranunculaceae); HUANG LIAN; Chinese Goldthread. Equivalent plant: *Coptis deltoidea*, *Coptis omeiensis*, *Coptis teetoides*, *Coptis chinensis* var. *breviseipala*. Used part: rhizome. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin, lower blood pressure. TCM Indications: Febrile infectious diseases, dysentery, blood ejection, spontaneous external bleeding, diphtheria, infection of upper respiratory tract, scarlatina, typhoid fever, acute conjunctivitis, otitis media, acute surgical infection, septicemia, hepatitis, trichomoniasis, eruptive dermatitis, hypertension, vexation and agitation, clouded spirit with delirious speech, damp-heat glomus in chest, damp-heat diarrhea dysentery, insomnia and vexation due to effulgent fire, stomach heat vomiting, swift digestion with rapid hungering, red eyes with pain due to liver fire, heat toxin sores, clove sore running yellow, gum swelling and pain, mouth sore, tongue sores, genital swelling, bleeding from hemorrhoids, eczema, scalds. Isolated compounds: 2303, 3174, 3934, 4032, 6081, 6835, 7768, 11851, 12847, 13374, 15882, 16555, 21689.
- T1663 *Coptis chinensis* var. *breviseipala* (Ranunculaceae); DUAN E HUANG LIAN; Shortsepal Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1664 *Coptis deltoidea* (Ranunculaceae); SAN JIAO YE HUANG LIAN; Deltoid Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 6835, 11851, 13374, 16555.
- T1665 *Coptis groenlandica* (Ranunculaceae). Isolated compounds: 9011.
- T1666 *Coptis gulinensis* GU LIN YE LIAN; Gulin Goldthread*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1667 *Coptis japonica* (Ranunculaceae); RI BEN HUANG LIAN; Japanese Goldthread*. Isolated compounds: 2302, 4032, 12523, 17409, 22726, 22727, 22728, 22729, 22730, 22731.
- T1668 *Coptis lineariseipala* XIAN E HUANG LIAN; Lineariseipal Goldthread*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1669 *Coptis omeiensis* (Ranunculaceae); E MEI YE HUANG LIAN; Omei Mountain Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1670 *Coptis teetoides* [Syn. *Coptis teeta*] (Ranunculaceae); YUN NAN HUANG LIAN; Yunnan Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 13374, 16555.
- T1671 *Coptis trifolia* (Ranunculaceae); SAN YE HUANG LIAN; Three-leaf Goldthread. Isolated compounds: 6835.
- T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*] (Gesneriaceae); SHI DAN CAO; Fan-shaped Corallodiscus. Used part: whole herb. TCM Effects: To clear damp heat, resolve sore toxin, quicken blood and relieve pain. TCM Indications: Damp-heat impediment pain, toxin swelling of sores, swelling pain in throat, red and white vaginal discharge, knocks and falls, bleeding due to external injury. Isolated compounds: 5949, 6076, 6077, 6078, 6079, 6080, 6085, 21761.
- T1673 *Corchorus capsularis* (Tiliaceae); HUANG MA YE; Roundpod Jute Leaf. Used part: leaf. TCM Effects: To rectify *qi* and stanch bleeding, expel pus and engender flesh. TCM Indications: Abdominal pain, dysentery, flooding, sore and welling abscess. Isolated compounds: 4036, 4037, 7320, 9335, 16084.
- T1674 *Corchorus capsularis* (Tiliaceae); HUANG MA ZI; Roundpod Jute Seed. Used part: seed. TCM Effects: To strengthen heart, anesthetize. TCM Indications: Flooding, cough harmful to lung. Isolated compounds: 4036, 7320, 9335, 16084.
- T1675 *Corchorus olitorius* (Tiliaceae); CHANG SHUO HUANG MA; Jews-mallow. Used part: whole herb. TCM Effects: To course wind, relieve cough, disinherit damp. TCM Indications: Common cold with cough, dysentery, eczema. Isolated compounds: 7320, 9335, 16084.
- T1676 *Corchorus trilocularis* (Tiliaceae); SAN SHI HUANG MA; Three-room Roundpod Jute*. Isolated compounds: 21403, 21890, 21891.
- T1677 *Cordia globosa* (Boraginaceae); QIU ZHUANG PO BU MU; Globe Cordia*. Isolated compounds: 6221, 14843.

- T1678 *Cordia multispicata* (Boraginaceae); DUO SUI PO BU MU; Manyspike Cordia*. Isolated compounds: 4039, 4040, 4041, 4042, 4043, 4044, 7001, 10960, 12490, 12491, 12493, 12496, 16358, 16498, 22272.
- T1679 *Cordia spinescens* (Boraginaceae); YOU CI PO BU MU; Spined Cordia*. Isolated compounds: 2955, 13369, 13371.
- T1680 *Cordyceps militaris* (Clavicipitaceae); YONG CHONG CAO; Scarlet Caterpillar Fungus. Equivalent plant: REN GONG YONG CHONG CAO. Used part: sclerotium and stroma. TCM Effects: To supplement lung and boost kidney. TCM Indications: Tuberculosis, phlegm containing blood, night sweating, blood vacuity, lumbago. Isolated compounds: 618, 3180, 3413, 3414, 3415, 4048, 6034, 7250, 10426, 10427, 18258.
- T1681 *Cordyceps militaris* cv (Clavicipitaceae); REN GONG YONG CHONG CAO; Cultivated Scarlet Caterpillar Fungus*. Used part: sclerotium and stroma. TCM Effects: To supplement lung and boost kidney. TCM Indications: Tuberculosis, phlegm containing blood, night sweating, blood vacuity, lumbago. Isolated compounds: 343, 617, 618, 4047, 4048, 7250, 9070, 9071, 11082, 22237, 22252.
- T1682 *Cordyceps ophioglossoides* (Clavicipitaceae); DA TUAN NANG CHONG CAO; Goldenthread Cordyceps. Used part: stroma. TCM Effects: To quicken blood, stanch bleeding, regulate menstruation. TCM Indications: Flooding, menstrual disorder [= menoxenia]. Isolated compounds: 16130.
- T1683 *Cordyceps sinensis* (Clavicipitaceae); DONG CHONG XIA CAO; Aweto (Chinese Caterpillar Fungus). Used part: a drug consisting of dried fungal stroma growing on larva of a caterpillar. TCM Effects: To supplement lung and boost kidney, stanch bleeding and transform phlegm. TCM Indications: Impotence and emission, neurasthenia, backache, aching in lumbus and knees, enduring cough and vacuity asthma, taxation damage hemoptysis. Isolated compounds: 617, 618, 4046, 4048, 5770, 6720, 6907, 7173, 7250, 9070, 9071, 9486, 10913, 10914, 11082, 11624, 12891, 12893, 13504, 19983, 20280, 22237, 22252, 22554, 22556.
- T1684 *Cordyline stricta* (Liliaceae); JIAN YE TIE SHU YE; Strictleaf Dracaena Leaf. Used part: leaf. TCM Effects: To dissipate stasis and disperse swelling, cool blood and stanch bleeding. TCM Indications: Knocks and falls, bleeding due to external injury, hematochezia, hematuria, nosebleed(epistaxis), cough with blood ejection, asthma, child gan accumulation, dysentery. Isolated compounds: 4049, 21383.
- T1685 *Coreopsis lanceolata* (Asteraceae); XIAN YE JIN JI JU; Lance Coreopsis. Used part: leaf. TCM Effects: To resolve heat toxin, disperse swollen welling abscess. TCM Indications: Toxin swelling of sores. Isolated compounds: 12466, 12678.
- T1686 *Coreopsis* sp. (Asteraceae). Isolated compounds: 16024.
- T1687 *Coriandrum sativum* (Apiaceae); HU SUI ZI; Coriander Seed. Used part: dried ripe fruit. TCM Effects: To outthrust papules, fortify stomach. TCM Indications: Food accumulation, inappetence, dysentery, hemorrhoids. Isolated compounds: 1596, 3048, 3771, 3772, 5811, 5812, 5813, 5814, 5897, 6482, 9879, 10005, 10014, 10040, 10326, 10604, 10605, 10944, 10953, 12843, 14423, 14425, 17528, 17911, 20988.
- T1688 *Coriaria angustissima* (Coriariaceae); XIA MA SANG; Narrow Coriaria*. Isolated compounds: 22145.
- T1689 *Coriaria arborea* (Coriariaceae); CAI SHI MU MA SANG; Arboreous Coriaria*. Isolated compounds: 13711.
- T1690 *Coriaria japonica* (Coriariaceae); RI BEN MA SANG; Japanese Coriaria*. Isolated compounds: 4051, 4052, 4053, 4054, 5732, 7518, 8311, 19057, 22145.
- T1691 *Coriaria myrtifolia* (Coriariaceae); DI ZHONG HAI MA SANG; Mediterranean Coriaria. Isolated compounds: 4051.
- T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*] (Coriariaceae); MA SANG; Chinese Coriaria. Used part: root. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Rheumatism numbness, wind-fire toothache, phlegm-rheum, lump glomus, scrofula, knocks and falls, acute conjunctivitis, burns and scalds. Isolated compounds: 1535, 4051, 8095, 9935, 22145.
- T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*] (Coriariaceae); MA SANG YE; Chinese Coriaria Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, kill worms. TCM Indications: Welling abscess and flat abscess, toxin swelling, scab and *lai*, yellow-water sore, scalds. Isolated compounds: 4051, 4057, 8095, 22145.
- T1694 *Coriaria* sp. (Coriariaceae). Isolated compounds: 22145.
- T1695 *Coriaria thymifolia* (Coriariaceae); BAI LI XIANG YE MA SANG; Thymeleaf Coriaria*. Isolated compounds: 4051.
- T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*] (Cornaceae); JI SU ZI; Evergreen Dogwood. Used part: fruit. TCM Effects: To disperse accumulation and kill worms, clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Hepatitis, food accumulation, lung heat cough, ascariasis, edema. Isolated compounds: 5567, 5568, 6345, 9869, 17171.
- T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*] (Cornaceae); DENG TAI SHU; Giant Dogwood. Used part: bark or root cortex, leaf. TCM Effects: To clear heat and calm liver, disperse swelling and relieve pain. TCM Indications: Headache, dizziness, swelling pain in throat, aching pain in joints, painful swelling from knocks and falls. Isolated compounds: 2928, 5513, 8103.
- T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*] (Cornaceae); SHAN ZHU YU; Asiatic Cornelian Cherry. Used part: fruit. TCM Effects: To supplement liver and kidney, rough essence and stem desertion. TCM Indications: Dizziness and tinnitus, aching in lumbus and knees, impotence and emission, enuresis and frequent urination, flooding and spotting with vaginal discharge, vacuity and profuse sweating, vacuity desertion due to great sweating, diabetes mellitus due to internal heat, dysmenorrhea. Isolated compounds: 957, 1723, 1832, 2282, 4060, 4062, 4063, 4064, 4065, 4943, 4951, 5520, 5764, 6745, 7518, 7523, 8011, 8095, 9486, 11218, 11268, 11735, 12891, 12950, 13419, 13849, 14607, 14982, 16050, 18656, 20503, 20715, 21053, 21641, 21642, 22270, 22397.
- T1699 *Cornus suecica* (Cornaceae); AI LAI MU; Dwarf Cornel. Isolated compounds: 8276, 14933.
- T1700 *Cornutia grandifolia* var. *intermedia* (Verbenaceae); ZHONG JIAN DA YE KE NU CAO; Intermediate Largeleaf Chastetree*. Isolated compounds: 4066, 4067, 4068, 4069, 4070, 4071, 4072, 4073, 4074, 4075.

- T1701 *Coronilla* spp. (Fabaceae). Isolated compounds: 22195.
- T1702 *Coronilla varia* (Fabaceae); DUO BIAN XIAO GUAN HUA; Crown Vetch. Isolated compounds: 10915, 19542, 22195.
- T1703 *Corsinia coriandrina* (Corsiaceae); GE ZHI HUA DI QIAN. Isolated compounds: 4093, 4094, 4095, 6292.
- T1704 *Cortinarius* spp. (Cortinariaceae). Isolated compounds: 1999, 21459, 21460.
- T1705 *Corydalis adunca* (Papaveraceae); HUI LV YAN HU SUO; Greyish-green Corydalis. Used part: whole herb. TCM Effects: To clear lung and relieve cough, clear liver and disinhibit gallbladder, relieve pain. TCM Indications: Lung heat cough, fever and chest pain, liver-gallbladder damp-heat, pain in rib-side, fever, anorexia for greasy food, jaundice, damp-heat diarrhea. Isolated compounds: 2303, 4032, 4103, 4889, 4890, 16555, 17983.
- T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (Papaveraceae); DONG BEI YAN HU SUO; Amur Corydalis. Equivalent plant: *Corydalis repens*. Used part: tuber. TCM Effects: To quicken blood and dissipate stasis, rectify *qi* and relieve pain. TCM Indications: Pain in lumbus and knees, pain in heart and abdomen, dysmenorrhea, menstrual disorder, postpartum stasis stagnation abdominal pain, flooding and spotting, concretion and conglomeration, knocks and falls. Isolated compounds: 930, 1023, 2350, 4032, 4103, 4889, 8513, 14252, 16555, 17983.
- T1707 *Corydalis aurea* (Papaveraceae); JIN HUANG JIN; Golden Corydalis. Isolated compounds: 3114, 4121.
- T1708 *Corydalis bulbosa* [Syn. *Corydalis solida*] (Papaveraceae); SHAN YAN HU SUO; Bird-in-a-bush. Isolated compounds: 2734, 8513, 15917, 15918.
- T1709 *Corydalis bungeana* (Papaveraceae); KU DI DING; Bunge Corydalis. Used part: whole herb. TCM Effects: To clear heat toxin, disperse swollen welling abscess. TCM Indications: Influenza, infection of upper respiratory tract, tonsillitis, infective hepatitis, enteritis, dysentery, nephritis, parotitis, conjunctivitis, acute appendicitis, clove sore and swollen welling abscess, scrofula. Isolated compounds: 359, 2350, 2744, 4116, 9938, 12028, 12029, 14360, 14372, 15817, 17983, 18327, 18328, 21061, 22958.
- T1710 *Corydalis campulicarpa* (Papaveraceae). Isolated compounds: 16128.
- T1711 *Corydalis caucasica* (Papaveraceae); GAO JIA SUO ZI JIN; Caucasian Corydalis*. Isolated compounds: 2734.
- T1712 *Corydalis cava* (Papaveraceae); AO XIAN ZI JIN; Bulbous Corydalis. Isolated compounds: 2734, 3057, 11256, 11344, 11348.
- T1713 *Corydalis cheilanthifolia* (Papaveraceae); HUA ZI JIN; Chinese Corydalis. Isolated compounds: 3057, 16128.
- T1714 *Corydalis claviculata* (Papaveraceae); BANG ZHUANG ZI JIN; Climbing Corydalis. Isolated compounds: 4350, 4351, 4353, 12641.
- T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*] (Papaveraceae); XIA TIAN WU; Decumbent Corydalis. Used part: tuber. TCM Effects: To move *qi* and quicken blood, free network vessels and relieve pain. TCM Indications: Pain in deep tissues, neuralgia, swelling pain from fracture, hypertension, hemiplegia, sequel of poliomyelitis, sciatica, rheumatic arthritis, knocks and falls. Isolated compounds: 642, 643, 2001, 2350, 2734, 4032, 4103, 7768, 13716, 16555, 17983, 21061, 21077.
- T1716 *Corydalis gigantea* (Papaveraceae); JU ZI JIN; Gigantic Corydalis*. Used part: whole herb. TCM Effects: To settle pain and calm. TCM Indications: Various pains. Isolated compounds: 2350, 5708.
- T1717 *Corydalis gortschakovii* (Papaveraceae); GE CAI KE SHI ZI JIN; Gortschakov Corydalis*. Isolated compounds: 6552.
- T1718 *Corydalis goviana* (Papaveraceae); KU MANG HUANG JIN; Govan Corydalis. Isolated compounds: 16128, 18519.
- T1719 *Corydalis incisa* (Papaveraceae); ZI HUA YU DENG CAO; Incised Corydalis. Used part: whole herb or root. TCM Effects: To resolve toxin and kill worms, relieve pain. TCM Indications: Toxin swelling of sores, scab and *lai*, intractable lichen, eczema, poisonous snake bite. Isolated compounds: 359, 438, 642, 3494, 4032, 4050, 4099, 4102, 4105, 4116, 4117, 4122, 6874, 7899, 9938, 11346, 16303, 16547, 18655, 19200, 19284, 19566, 21062, 22732.
- T1720 *Corydalis ledebouriana* (Papaveraceae); DUI YE YUAN HU; Ledebour Corydalis*. Isolated compounds: 2303, 4032, 4103, 4889, 5708, 12599, 12600, 12602, 12603, 16555, 17983.
- T1721 *Corydalis linearoides* (Papaveraceae); TIAO LIE HUANG JIN; Linearsegmented Corydalis. Used part: whole herb or tuber. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, itchy skin, knocks and falls. Isolated compounds: 643.
- T1722 *Corydalis longicalcarata* (Papaveraceae); CHANG JU YAN HU SUO; Longspur Corydalis*. Isolated compounds: 2303, 4032, 4103, 4889, 4890, 16555, 17983.
- T1723 *Corydalis lutea* (Papaveraceae); SHEN HUANG ZI JIN; Dark-yellow Corydalis. Isolated compounds: 11344, 11851.
- T1724 *Corydalis marschalliana* (Papaveraceae); MA CHANG LI ZI JIN; Marschall Corydalis *. Isolated compounds: 2734, 4106.
- T1725 *Corydalis micrantha* (Papaveraceae); XIAO HUA ZI JIN; Micranthine Corydalis*. Isolated compounds: 3114.
- T1726 *Corydalis montana* (Papaveraceae); MENG DA NA ZI JIN; Montana Corydalis*. Isolated compounds: 3114.
- T1727 *Corydalis mucronifera* (Papaveraceae); BIAN BING HUANG JIN; Flatstiped Corydalis. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, relieve pain. TCM Indications: Influenza, warm disease fever, gastritis, ulcer, dysentery, sciatica, swelling pain of sore and boil. Isolated compounds: 642, 2350.
- T1728 *Corydalis ochotensis* (Papaveraceae); HUANG ZI JIN; Ochotsk Corydalis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swollen pain of sore toxin, dysentery, tuberculosis and hemoptysis. Isolated compounds: 11571, 12797, 15917, 15918.
- T1729 *Corydalis ochotensis* var. *raddeana* (Papaveraceae); XIAO HUANG ZI JIN; Small Ochotsk Corydalis. Isolated compounds: 15917, 15918, 18519.
- T1730 *Corydalis ophiocarpa* (Papaveraceae); SHE GUO HUANG JIN; Snakefruit Corydalis. Used part: whole herb. TCM Effects: To quicken blood and relieve pain, dispel wind and relieve itch. TCM Indications: Knocks and falls, itchy skin. Isolated compounds: 643, 4121, 16128, 16129.
- T1731 *Corydalis pallida* (Papaveraceae); JU HUA HUANG LIAN; Yellowflower Corydalis. Used part: root. TCM Effects: To clear heat

- and resolve toxin, disperse swelling and relieve pain. TCM Indications: Welling abscess and boil, innominate toxin swelling. Isolated compounds: 2734, 3114, 3115, 4032, 4104, 4121, 4290, 5708, 7451, 15659, 16473, 16547, 19200, 19284, 19566, 20416, 21062, 21077, 22732.
- T1732 *Corydalis pallida* var. *tenuis* (Papaveraceae); XI SHEN SHAN ZI JIN; Tenuous Corydalis*. Isolated compounds: 3114, 4889, 19200.
- T1733 *Corydalis racemosa* (Papaveraceae); XIAO HUA HUANG JIN; Racemose Corydalis. Used part: whole herb or root. TCM Effects: To clear heat and disinherit damp, resolve toxin and kill worms. TCM Indications: Damp-heat diarrhea, dysentery, jaundice, red eyes with gall, otitis media, sore toxin, scab and lichen, poisonous snake bite. Isolated compounds: 21077.
- T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (Papaveraceae); CHI BAN YAN HU SUO; Toothedpetal Corydalis. Used part: tuber. TCM Effects: To quicken blood and dissipate stasis, move *qi* and relieve pain. TCM Indications: Pain in lumbus and knees, pain in heart and abdomen, dysmenorrhea, postpartum stasis stagnation abdominal pain, painful swelling from knocks and falls. Isolated compounds: 930, 2303, 4032, 4103, 4106, 16555, 17983, 20369, 21061, 21077.
- T1735 *Corydalis repens* (Papaveraceae); QUAN YE YAN HU SUO; Creeping Corydalis. Used part: tuber. TCM Effects: See *Corydalis ambigua* var. *amurensis*. TCM Indications: See *Corydalis ambigua* var. *amurensis*. Isolated compounds: 642, 4032, 16555, 17983, 21061.
- T1736 *Corydalis repens* var. *humosides* (Papaveraceae); TU YAN HU; Repent Corydalis*. Isolated compounds: 642.
- T1737 *Corydalis rosea* (Papaveraceae); MEI GUI HONG JIN; Rose Corydalis*. Isolated compounds: 643.
- T1738 *Corydalis rotundatour* (Papaveraceae); YUAN YE SHAN WU GUI; Roundleaf Corydalis*. Isolated compounds: 3057.
- T1739 *Corydalis scouleri* (Papaveraceae); SI KAO LE ZI JIN; Scouler Corydalis*. Isolated compounds: 643.
- T1740 *Corydalis sempervirens* (Papaveraceae); CANG BAI ZI JIN; Pale Corydalis. Isolated compounds: 643.
- T1741 *Corydalis sewerzowi* (Papaveraceae); XIE SHI ZI JIN; Sewerzow Corydalis*. Isolated compounds: 4058.
- T1742 *Corydalis sibirica* (Papaveraceae); BEI ZI JIN; Siberian Corydalis. Isolated compounds: 4058, 15918.
- T1743 *Corydalis* spp. (Papaveraceae). Isolated compounds: 3498, 16900.
- T1744 *Corydalis stricta* (Papaveraceae); ZHI LI ZI JIN. Isolated compounds: 9704.
- T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*] (Papaveraceae); JIAN JU ZI JIN; Sharpspur Corydalis. Used part: whole herb or tuber. TCM Effects: To quicken blood and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, abdominal pain and diarrhea, knocks and falls, swelling toxin of welling abscess and sore, red eyes with gall. Isolated compounds: 4116, 6552, 17983.
- T1746 *Corydalis taliensis* (Papaveraceae); WU WEI CAO; Tali Corydalis. Used part: whole herb. TCM Effects: To dispel wind, clear heat, relieve pain, clear liver and brighten eyes. TCM Indications: Wind-heat common cold, lung heat cough, tuberculosis and coughing of blood, hepatitis, wind-damp pain in sinews and bones, toothache, red eyes, eye screen. Isolated compounds: 2350, 15664.
- T1747 *Corydalis thalictrifolia* (Papaveraceae); YAN HUANG LIAN; Rockliving Corydalis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp, stanch bleeding and relieve pain. TCM Indications: Hepatitis, oral ulcer, acute conjunctivitis nephelium, dysentery, abdominal pain and diarrhea, bleeding from hemorrhoids. Isolated compounds: 642, 21250.
- T1748 *Corydalis tuberosa* (Papaveraceae); KUAI JING ZI JIN; Tuberos Corydalis*. Isolated compounds: 11344.
- T1749 *Corydalis vaginans* (Papaveraceae). Isolated compounds: 15918.
- T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (Papaveraceae); YAN HU SUO; Yanhusuo. Used part: rhizome. TCM Effects: To quicken blood, disinherit *qi*, relieve pain. TCM Indications: Chest and rib-side pain, pain in stomach duct and abdomen, neuralgia, gastrointestinal spasm, amenorrhea and dysmenorrhea, postpartum stasis stagnation abdominal pain, painful swelling from knocks and falls. Isolated compounds: 930, 2303, 2350, 3057, 3934, 4032, 4098, 4103, 4104, 4106, 4122, 4888, 4889, 4890, 7996, 8513, 11344, 11348, 12641, 12918, 14550, 15763, 16555, 17983, 18654, 19566, 20416, 21056, 21061, 21062, 21077, 21259, 22934.
- T1751 *Corylus heterophylla* (Betulaceae); ZHEN; Siberian Hazelnut. Used part: kernel. TCM Effects: To fortify spleen and harmonize stomach, moisten lung and relieve cough. TCM Indications: weakness during convalescence, spleen vacuity diarrhea, inappetence, cough. Isolated compounds: 9469.
- T1752 *Corynanthe johimbe* (Rubiaceae); KE NAN SHU; Corinan Tree*. Isolated compounds: 22921.
- T1753 *Cosmos bipinnata* (Asteraceae); DA BO SI JU; Mexican Aster. Used part: inflorescence, seedor whole herb. TCM Effects: To clear heat and resolve toxin, brighten eyes and transform damp. Isolated compounds: 1492, 22035.
- T1754 *Costus afer* (Zingiberaceae); FEI ZHOU BI QIAO JIANG; African Costus*. Isolated compounds: 668.
- T1755 *Costus* sp. (Zingiberaceae). Isolated compounds: 6437, 8968.
- T1756 *Costus speciosus* (Zingiberaceae); ZHANG LIU TOU; Canereed Spiralflag. Used part: rhizome. TCM Effects: To move water and disperse swelling. TCM Indications: Ascites, white turbidity, swollen welling abscess, malign sore. Isolated compounds: 6440, 8968, 12488, 17973, 17975, 19987, 21383.
- T1757 *Costus spicatus* (Zingiberaceae); SUI ZHUANG BI QIAO JIANG; Cana do brejo (in Brazil). Isolated compounds: 12016, 20660.
- T1758 *Cotinus coggygia* (Anacardiaceae); HUANG LU; Common Smoketree. Used part: wood. TCM Effects: To eliminate heat vexation, resolve liquor jaundice. TCM Indications: Icterohepatitis, red eyes, lacquer sore, burns and scalds. Isolated compounds: 1399, 1400, 8095, 14454, 20481, 20482.
- T1759 *Cotinus coggygia* var. *cinerea* (Anacardiaceae); HUANG LU ZHI YE; Common Smoketree Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear damp heat. TCM Indications: Jaundice, lacquer sore, burns and scalds. Isolated compounds: 4439, 8095, 17027, 21959.
- T1760 *Cotinus* sp. (Anacardiaceae). Isolated compounds: 16836, 20481.
- T1761 *Cotoneaster pannosus* (Rosaceae); ZHAN MAO XUN ZI; Silverleaf Cotoneaster. Isolated compounds: 2384.
- T1762 *Cotoneaster* spp. (Rosaceae). Isolated compounds: 17869.

- T1763 *Cotylelobium lanceolatum* (Dipterocarpaceae). Isolated compounds: 4130, 4131, 4132.
- T1764 *Couepia ulei*. Isolated compounds: 1384, 7670.
- T1765 *Coussarea brevicaulis*. Isolated compounds: 2149, 4194, 7023, 19586.
- T1766 *Cowania mexicana* (Rosaceae); XUAN YA MEI GUI; Cliffrose. Isolated compounds: 16304, 16314.
- T1767 *Craibiodendron yunnanese* (Ericaceae); JIN YE ZI; Yunnan Craibiodendron. Used part: leaf. TCM Effects: To dispel wind and quicken blood, free network vessels and relieve pain. TCM Indications: Impediment pain, hemiplegia, knocks and falls. Isolated compounds: 1850, 8996, 12727.
- T1768 *Crassostrea gigas* (Ostreidae); MU LI; Oyster. Isolated compounds: 5874, 7217, 21085.
- T1769 *Crataegus cuneata* (Rosaceae); YE SHAN ZHA; Nippon Hawthorn. Equivalent plant: *Crataegus sanguinea*, *Crataegus kansuensis*, *Crataegus maximowiczii*, *Crataegus scabrifolia*. Used part: fruit. TCM Effects: To fortify spleen and disperse food, quicken blood and transform stasis. TCM Indications: Food stagnation, meat-type food accumulation, distending pain in stomach duct, postpartum blood stasis abdominal pain, lacquer sore, frostbite. Isolated compounds: 3551, 3766, 6854, 10887, 13419, 19087, 22270.
- T1770 *Crataegus hupehensis* HU BEI SHAN ZHA; Hupeh Hawthorn. Isolated compounds: 10887, 19087, 22270, 22581.
- T1771 *Crataegus kansuensis* GAN SU SHAN ZHA; Kansu Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1772 *Crataegus maximowiczii* MAO SHAN ZHA; Maximowicz Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1773 *Crataegus monogyna* (Rosaceae); DAN ZI SHAN ZHA; Common Hawthorn. Isolated compounds: 6853, 17876.
- T1774 *Crataegus oxyacantha* (Rosaceae); YING GUO SHAN ZHA; Hawthorn. Isolated compounds: 664, 1102, 3551, 22581.
- T1775 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA; Chinese Hawthorn. Equivalent plant: *Crataegus pinnatifida* var. *major*. Used part: fruit. TCM Effects: To fortify stomach and disperse food, move *qi* and dissipate stasis, lower cholesterol. TCM Indications: Hyperlipemia, myocardial ischemia, angina pectoris, meat-type food accumulation, distention fullness in stomach duct, abdominal pain and diarrhea, amenorrhea due to blood stasis, postpartum stasis stagnation abdominal pain, stabbing pain in heart and abdomen, mounting *qi*. Isolated compounds: 351, 1102, 1845, 2790, 2887, 3551, 3766, 4217, 4218, 4219, 4834, 6318, 6329, 6334, 6335, 6356, 6421, 6854, 7281, 7431, 7434, 7462, 7464, 9408, 9486, 10887, 12891, 12893, 14155, 14270, 14274, 14482, 14488, 14622, 14631, 16285, 17920, 17936, 19087, 20280, 20444, 21942, 21947, 21948, 21952, 21963, 21965, 22270, 22581.
- T1776 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA HUA; Chinese Hawthorn Flower. Used part: flower. TCM Effects: To lower blood pressure. TCM Indications: Hypertension. Isolated compounds: 2394.
- T1777 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA YE; Chinese Hawthorn Leaf. Used part: leaf. TCM Effects: To relieve itch, close sores, lower blood pressure. TCM Indications: Hypertension, lacquer sore, enduring sores. Isolated compounds: 351, 4219, 12714.
- T1778 *Crataegus pinnatifida* var. *major* (Rosaceae); SHAN LI HONG; Red Fruit. Used part: fruit. TCM Effects: See *Crataegus pinnatifida*. TCM Indications: See *Crataegus pinnatifida*. Isolated compounds: 1110, 3551, 3766, 6854, 10887, 17393, 17394, 17395, 17396, 17397, 19087, 22270, 22581.
- T1779 *Crataegus pinnatifida* var. *psilosa* WU MAO SHAN ZHA; Hairless Chinese Hawthorn. Isolated compounds: 10887, 19087, 22581.
- T1780 *Crataegus sanguinea* LIAO NING SHAN ZHA; Redhaw Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1781 *Crataegus scabrifolia* YUN NAN SHAN ZHA; Yunnan Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 1845, 3766, 10887, 19087, 20444, 22581.
- T1782 *Crataegus* spp. (Rosaceae). Isolated compounds: 17083, 17869.
- T1783 *Cratoxylum arborescens* (Clusiaceae); QIAO MU ZHUANG HUANG NIU MU; Genonggang. Isolated compounds: 5827, 6183, 8032, 8315, 8325.
- T1784 *Cratoxylum cochinchinense* (Clusiaceae); HUANG NIU MU; Common Oxwood. Used part: root, bark or stem-leaf. TCM Effects: To clear heat and resolve toxin, transform damp and disperse stagnation, dispel stasis and disperse swelling. TCM Indications: Common cold, summerheat stroke with fever, diarrhea, jaundice, knocks and falls, swelling welling abscess and sore and boil. Isolated compounds: 3370, 3870, 3871, 3872, 3873, 5044, 8219, 8221, 8323, 9857, 13492, 13493, 17661, 21691.
- T1785 *Cratoxylum prunifolium* (Clusiaceae); KU DING CHA; Plumleaf Cratoxylum. Used part: tender leaf. TCM Effects: To clear heat and resolve summerheat, transform damp and disperse stagnation. TCM Indications: Common cold, summerheat stroke with fever, jaundice, acute gastroenteritis, bacillary dysentery, sore and boil. Isolated compounds: 15715.
- T1786 *Cremanthodium ellisii* (Asteraceae); KUI GEN CHUI TOU JU; Root-tuber Cremanthodium. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, loosen chest and disinhibit *qi*. TCM Indications: Cough of phlegm asthma, taxation damage, senile vacuity weakness headache. Isolated compounds: 14627.
- T1787 *Cremastra appendiculata* (Orchidaceae); DU JUAN LAN; Appendiculate Cremastra. Used part: pseudobulb. TCM Effects: To clear heat and resolve toxin, disperse swelling and dissipate binds. TCM Indications: Malign sores with welling abscess and flat abscess, scrofula, throat pain and throat impediment, snake or insect bites. Isolated compounds: 5910.
- T1788 *Crepis mollis* (Asteraceae); ROU SE HUAN YANG SHEN; Soft Hawksbeard. Isolated compounds: 10745.
- T1789 *Crepis napifera* (Asteraceae); YUAN JING HUAN YANG SHEN; Turnip-shaped Hawksbeard. Used part: root or whole herb. TCM Effects: To clear lung and relieve cough, nourish liver and brighten eyes. TCM Indications: Lung heat cough, pertussis, night blindness. Isolated compounds: 5724, 15262, 20714.

- T1790 *Crepis tingitana* (Asteraceae); NAN XI BAN YA HUAN YANG SHEN; Southern-Spain Hawksbeard*. Isolated compounds: 8706.
- T1791 *Crescentia cujete* (Bignoniaceae); PAO DAN GUO; Calabash-tree. Isolated compounds: 12225.
- T1792 *Crinodendron hookerianum* (Elaeocarpaceae); HONG BAI HE MU; Lantern-tree. Isolated compounds: 4319, 4321, 4322.
- T1793 *Crinum amabile* (Amaryllidaceae); SU MEN DA LA WEN SHU LAN; Lovely Crinum*. Isolated compounds: 9547.
- T1794 *Crinum asiaticum* (Amaryllidaceae); YA ZHOU WEN SHU LAN; Grand Crinum. Isolated compounds: 4237, 4238, 4239, 22232.
- T1795 *Crinum asiaticum* var. *japonicum* (Amaryllidaceae); RI BEN WEN SHU LAN; Japanese Crinum. Isolated compounds: 4235, 10403, 13241, 15750, 17769.
- T1796 *Crinum asiaticum* var. *sinicum* (Amaryllidaceae); WEN SHU LAN; Chinese Crinum. Used part: root and bulb. TCM Effects: To clear heat and resolve toxin, dispel stasis and relieve pain. TCM Indications: Cough, throat pain, knocks and falls, toothache. Isolated compounds: 13241, 20891.
- T1797 *Crinum bulbispermum* (Amaryllidaceae); LIN JING ZHONG ZI WEN SHU LAN; Bulb-spermo Crinum*. Isolated compounds: 408, 4235, 4237, 5255, 5256, 5978, 7414, 9946, 10018, 10404, 11484, 14369.
- T1798 *Crinum kirkii* (Amaryllidaceae); KEN NI YA WEN SHU LAN; Kenya Crinum*. Isolated compounds: 506, 4866, 15716.
- T1799 *Crinum latifolium* (Amaryllidaceae); XI NAN WEN SHU LAN; Broadleaf Crinum. Used part: leaf. TCM Effects: To quicken blood and dispel stasis, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Wound swelling from knocks and falls, fracture, pain in joints, toothache, malign sore and swelling toxin, hemorrhoids, zoster, psoriasis. Isolated compounds: 9547, 13241.
- T1800 *Crinum laurentii* (Amaryllidaceae); LAO SHI WEN SHU LAN; Laurent Crinum*. Isolated compounds: 1021.
- T1801 *Crinum macowanii* (Amaryllidaceae); GUAN MU WEN SHU LAN; Shrubby Crinum* 'bush' or 'march lily'. Isolated compounds: 2751, 3516, 4240, 4982, 6882, 9206, 12296, 13241, 13297, 17751, 22230.
- T1802 *Crinum macrantherum* (Amaryllidaceae); DA HUA YAO WEN SHU LAN; Macroanther Crinum*. Isolated compounds: 2219.
- T1803 *Crinum moorei* (Amaryllidaceae). Isolated compounds: 460, 3516, 4236, 4241, 6842, 6883, 7038, 17751, 22229.
- T1804 *Cristaria plicata*; *Hyriopsis cumingii* ZHEN ZHU MU; Mother-of-pearl. Used part: shell. TCM Effects: To calm liver and subdue yang, quiet spirit and settle fright, clear liver and brighten eyes. TCM Indications: Headache and dizziness, palpitation and insomnia, mania and withdrawal, fright epilepsy, liver heat and red eyes, eye screen. Isolated compounds: 17730.
- T1805 *Crocus antalyensis* (Iridaceae). Isolated compounds: 12041.
- T1806 *Crocus antalyensis* cv (Iridaceae); HE LAN ZHONG ZHI FAN HONG HUA; Holland Planted Saffron*. Isolated compounds: 5025, 17023.
- T1807 *Crocus chrysanthus-biflorus* (Iridaceae); SHUANG HUA FAN HONG HUA; Biflower Crocus*. Isolated compounds: 12054, 12055, 12056, 15182, 18366.
- T1808 *Crocus sativus* (Iridaceae); ZANG HONG HUA; Saffron Crocus Stigma. Used part: stigma. TCM Effects: To quicken blood and transform stasis, dissipate depression and open binds. TCM Indications: Anxiety and depression, glomus and oppression in chest and diaphragm, blood ejection, cold damage mania, fright palpitation, amenorrhea, postpartum blood stasis abdominal pain, painful swelling from knocks and falls. Isolated compounds: 618, 618, 2224, 4245, 4245, 4246, 4247, 4248, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 5763, 5783, 8300, 9301, 9818, 9824, 10524, 10626, 10807, 10807, 10808, 10809, 11656, 11659, 11668, 12015, 12020, 12051, 12062, 13480, 13931, 14652, 14802, 15526, 17263, 17264, 17330, 17330, 17967, 17971, 18259, 18259, 18834, 19120, 20088, 21958, 21967, 22170, 22237, 22237, 22976.
- T1809 *Crocus speciosus* (Iridaceae); MEI LI FAN HONG HUA; Pretty Crocus. Isolated compounds: 4249, 12041.
- T1810 *Crooomia japonica* (Stemonaceae); JIN GANG DA; Japanese Croomia. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Swelling pain in throat, poisonous snake bite, knocks and falls. Isolated compounds: 4265, 16501.
- T1811 *Crossopetalum gaumeri* (Celastraceae); GAO MEI YING BAN; Gaumei Fringe-petal*. Isolated compounds: 3368, 6049, 10692, 17862, 19373, 19376, 19637, 19638, 21830.
- T1812 *Crossostephium chinense* (Asteraceae); FU RONG JU GEN; Chinese Crossostephium Root. Used part: root. TCM Effects: To dispel wind-damp, warm center and relieve pain. TCM Indications: Rheumatic arthritis, cold pain in stomach duct. Isolated compounds: 20712, 20713.
- T1813 *Crotalaria albida* (Fabaceae); HUANG HUA DI DING; Diluteyellow Crotalaria. Used part: whole herb. TCM Effects: To drain lung and disperse phlegm, clear heat and disinherit damp, resolve toxin and disperse swelling. TCM Indications: Cough and asthma with abundant phlegm, damp-heat diarrhea dysentery, jaundice, dribbling pain of urination, insomnia and vexation, mammary welling abscess, swelling toxin of welling abscess and sore. Isolated compounds: 4244, 12113.
- T1814 *Crotalaria anagyroides* (Fabaceae); MEI ZHOU YE BAI HE; American Crotalaria*. Isolated compounds: 4266.
- T1815 *Crotalaria assamica* (Fabaceae); ZI XIAO RONG ZI; Assam Crotalaria Seed. Used part: seed. TCM Effects: To dispel wind and eliminate damp, stanch bleeding and disperse swelling, kill worms. TCM Indications: Wind-damp bone pain, knocks and falls, bleeding due to external injury, child gan accumulation. Isolated compounds: 1912, 14923.
- T1816 *Crotalaria breviflora* (Fabaceae); DUAN HUA ZHU SHI DOU; Shortflower Crotalaria*. Isolated compounds: 11091.
- T1817 *Crotalaria brevifolia* (Fabaceae); DUAN YE ZHU SHI DOU; Shortleaf Crotalaria*. Isolated compounds: 22277.
- T1818 *Crotalaria crispata* (Fabaceae); ZOU BO ZHUANG ZHU SHI DOU; Crispate Crotalaria*. Isolated compounds: 7994, 14923.
- T1819 *Crotalaria ferruginea* (Fabaceae); XIANG LING CAO; Rust-coloured Crotalaria. Used part: whole herb with root. TCM Effects: To enrich liver and nourish kidney, relieve cough and calm asthma, resolve toxin and disinherit damp. TCM Indications: Tinnitus, dizziness and dim vision, emission, profuse menstruation, vaginal discharge, enduring cough with bloody phlegm, asthma, nephritis, inhibited urination,

- tonsillitis, parotitis, swelling toxin of clove sore. Isolated compounds: 15018, 15596, 22277.
- T1820 *Crotalaria fulva* (Fabaceae); AN HUANG ZHU SHI DOU; Flavescent Crotalaria*. Isolated compounds: 7994.
- T1821 *Crotalaria incana* (Fabaceae); GUANG YE ZHU SHI DOU; Shackshack Crotalaria. Isolated compounds: 4266, 11091, 22277.
- T1822 *Crotalaria intermedia* (Fabaceae); XI YE ZHU SHI DOU; Slender-leaf Crotalaria. Isolated compounds: 22277.
- T1823 *Crotalaria juncea* (Fabaceae); SHU MA; Sunn Crotalaria. Used part: root. TCM Effects: To disinhibit urine and resolve toxin. TCM Indications: Opacity of urine, dribbling pain of urination, urethral stone, scab and lichen, knocks and falls. Isolated compounds: 18842, 19712, 21560.
- T1824 *Crotalaria laburnifolia* (Fabaceae); JIN LIAN HUA ZHU SHI DOU; Laburnum Crotalaria*. Isolated compounds: 4266, 19731.
- T1825 *Crotalaria madurensis* (Fabaceae); MA DU LA ZHU SHI DOU; Madura Crotalaria*. Isolated compounds: 7994.
- T1826 *Crotalaria mucronata* (Fabaceae); ZHU SHI DOU; Striped Crotalaria. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and dissipate binds. TCM Indications: Chronic diarrhea, damp-heat diarrhea, dysentery, edema, pelvic inflammation, frequent urination in children, dribbling urination, child *gan* accumulation, mastitis, neurasthenia, insomnia. Isolated compounds: 15018, 22277.
- T1827 *Crotalaria nana* (Fabaceae); XIAO ZHU SHI DOU; Small Rattle-box. Isolated compounds: 14923.
- T1828 *Crotalaria paniculata* (Fabaceae); YUAN ZHUI ZHU SHI DOU; Paniculate Crotalaria*. Isolated compounds: 7994.
- T1829 *Crotalaria quinquefolia* (Fabaceae); WU YE ZHU SHI DOU; Fiveleaf Crotalaria*. Isolated compounds: 14923.
- T1830 *Crotalaria retusa* (Fabaceae); AO ZHU SHI DOU; Yellow-flowering Pea. Isolated compounds: 14923, 20140.
- T1831 *Crotalaria sessiliflora* (Fabaceae); YE BAI HE; Purpleflower Crotalaria. Used part: whole herb. TCM Effects: To clear heat, resolve toxin, disinhibit damp, disperse accumulation. TCM Indications: Dysentery, heat strangury, cough and asthma, wind-damp impediment pain, clove sore and swollen boil, poisonous snake bite, child *gan* accumulation, carcinoma of uterine cervix, carcinoma of esophagus, carcinoma of lung, carcinoma of liver, carcinoma of stomach, squamous carcinoma of skin. Isolated compounds: 14923, 21560.
- T1832 *Crotalaria* sp. (Fabaceae). Isolated compounds: 9318.
- T1833 *Crotalaria spartioides* (Fabaceae); YING ZHAO DOU ZHU SHI DOU; Sparteine Crotalaria*. Isolated compounds: 18667.
- T1834 *Crotalaria spectabilis* (Fabaceae); MEI LI ZHU SHI DOU; Beautiful Crotalaria. Isolated compounds: 14923, 20140.
- T1835 *Crotalaria stipularia* (Fabaceae); TUO YE ZHU SHI DOU; Stipular Crotalaria*. Isolated compounds: 14923.
- T1836 *Crotalaria tetragona* (Fabaceae); HUA JIN DAN; Tetragonal Crotalaria. Used part: whole herb or root. TCM Effects: To transform stagnation and relieve pain. TCM Indications: Abdominal pain, iron or wood intake. Isolated compounds: 21560, 21601.
- T1837 *Crotalaria usaramoensis* (Fabaceae); GUANG E ZHU SHI DOU; Glabroussepel Crotalaria. Isolated compounds: 18667, 22277.
- T1838 *Croton balsamifera* (Euphorbiaceae); XIANG BA DOU; Balsam Croton*. Isolated compounds: 7837.
- T1839 *Croton cajucara* (Euphorbiaceae); KA ZHU BA DOU. Isolated compounds: 2932, 4893.
- T1840 *Croton campestris* (Euphorbiaceae); PING YUAN BA DOU. Isolated compounds: 22361, 22362, 22363.
- T1841 *Croton caudatus* var. *tomentosus* (Euphorbiaceae); MAO YE BA DOU; Tomentose Caudate Croton. Used part: whole herb. TCM Effects: To interrupt malaria and settle pain, soothe sinews and quicken blood. TCM Indications: Malaria with ardent fever, fright epilepsy, convulsion, wind-damp impediment pain, fracture, knocks and falls. Isolated compounds: 1113.
- T1842 *Croton cumingii* (Euphorbiaceae); KA MING BA DOU; Cuming Croton*. Isolated compounds: 13374.
- T1843 *Croton draconoide* (Euphorbiaceae); DE LA KE BA DOU; Drac Croton*. Isolated compounds: 20717.
- T1844 *Croton eluteria* (Euphorbiaceae); KU XIANG SHU; Cascarilla. Isolated compounds: 3248, 3249, 3250, 3251, 3252, 3253.
- T1845 *Croton flavens* (Euphorbiaceae); DAN HUANG BA DOU; Flavescent Croton*. Isolated compounds: 22658.
- T1846 *Croton hovarum* (Euphorbiaceae). Isolated compounds: 3538, 5877, 5878, 6467.
- T1847 *Croton hutchinsonianus* (Euphorbiaceae). Isolated compounds: 10041, 10639.
- T1848 *Croton joufra* (Euphorbiaceae). Isolated compounds: 9971.
- T1849 *Croton lechleri* (Euphorbiaceae); LAI KE BA DOU; Lechler Croton*. Isolated compounds: 12270, 12271, 20717.
- T1850 *Croton linearis* (Euphorbiaceae); XIAN YE BA DOU; Linear Croton*. Isolated compounds: 11087, 17909.
- T1851 *Croton macrostachys* (Euphorbiaceae); CHANG SUI BA DOU; LongspikeCroton*. Isolated compounds: 6156, 15367, 21495, 21496, 21851.
- T1852 *Croton nepetaefolius* (Euphorbiaceae); SI JING JIE BA DOU; Nepeta-like Croton*. Isolated compounds: 6745, 7523.
- T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*] (Euphorbiaceae); GUANG YE BA DOU; Nitidleaf Croton. Used part: leaf, root. TCM Effects: To free channels and quicken blood, interrupt malaria. TCM Indications: Swelling pain due to external injury, fracture, malaria. Isolated compounds: 225, 226, 248, 2251, 2618, 4268, 4269, 5942, 5944, 5945, 7122, 7156, 10285, 10306, 10307, 12178, 12180, 12413, 12414, 12415, 12416, 12417, 12423, 14543, 17118.
- T1854 *Croton salutaris* (Euphorbiaceae); YI KANG BA DOU; Salutory Croton*. Isolated compounds: 7837.
- T1855 *Croton schiedeianus* (Euphorbiaceae); GE LUN BI YA BA DOU; Colombia Croton*, Almizclillo. Isolated compounds: 4892, 5793, 7835, 9222, 9897, 9919, 9972, 11896, 13929, 14517.
- T1856 *Croton sparsiflorus* (Euphorbiaceae); SAN HUA BA DOU; Sparseflower Croton*. Isolated compounds: 8524.
- T1857 *Croton sublyratus* (Euphorbiaceae); JIN QIN ZHUANG BA DOU; Lyrate-like Croton*. Isolated compounds: 10523, 17549, 17550, 17551, 17552.
- T1858 *Croton tiglium* (Euphorbiaceae); BA DOU; Purging Croton. Used part: dried seed. TCM Effects: To drain precipitation and cold accumulation, expel water and disperse swelling, dispel phlegm and disinhibit throat,

- consume sore and kill worms. TCM Indications: Distention fullness and sudden pain in chest and abdomen, fecal stoppage, diarrhea and dysentery, edema and enlarged abdomen, phlegm-rheum asthma fullness, throat wind, throat impediment, concretion and conglomeration, welling abscess and flat abscess, malign sore and scab lichen. Isolated compounds: 482, 483, 484, 485, 1598, 4271, 4272, 4839, 9486, 11448, 12569, 12893, 14201, 15203, 17181, 17182, 17183, 17184, 17185, 17186, 17187, 17188, 17189, 17190, 17191, 17192, 17193, 17194, 17195, 19983, 20280, 21371, 21381, 21382.
- T1859 *Croton tonkinensis* (Euphorbiaceae); DONG JIN BA DOU; Viet Nam Croton*; Kho Sam Cho La. Isolated compounds: 170, 171, 172, 173, 220, 221, 222, 223, 224, 247, 5305, 5306, 5307, 5309, 5936, 5939, 10282, 12183.
- T1860 *Croton urucurana* (Euphorbiaceae); WULU BA DOU; Wru Croton*. Isolated compounds: 6967.
- T1861 *Croton zambesicus* (Euphorbiaceae); ZAN BI XI BA DOU; Zambesi Croton*. Isolated compounds: 291, 1110, 2933, 4267, 4270, 4273, 4274, 4275, 10773, 11595, 17265, 19983, 20369, 21494, 21497, 21498.
- T1862 *Cryptocarya chinensis* (Lauraceae); HOU KE GUI; Chinese Cryptocarya. Isolated compounds: 1667, 2486, 3238, 3239, 3240, 4277, 4278, 5069, 5090, 5719, 6573, 7359, 7360, 9947, 9948, 10480, 11217, 11256, 11257, 11308, 11309, 11310, 11311, 11312, 11352, 14378, 15075, 15359, 17910.
- T1863 *Cryptocarya longifolia* (Lauraceae); CHANG YE HOU KE GUI; Longleaf Cryptocarya*. Isolated compounds: 21255.
- T1864 *Cryptocarya strictifolia* (Lauraceae); ZHI LI YE HOU KE GUI; Strickleaf Cryptocarya*. Isolated compounds: 20388.
- T1865 *Cryptolepis obtusa* (Asclepiadaceae); DUN XING BAI YE TENG; Obtuse Cryptolepis*. Isolated compounds: 15909, 15912, 19987.
- T1866 *Cryptolepis sinensis* (Asclepiadaceae); BAI YE TENG; Chinese Cryptolepis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, dissipate stasis and relieve pain. TCM Indications: Lung heat hemoptysis, tuberculosis and hemoptysis, stomach hemorrhage, swollen welling abscess, sore toxin, knife wound, knocks and falls, snake or insect bites. Isolated compounds: 5763.
- T1867 *Cryptomeria fortunei* (Taxodiaceae); LIU SHAN; Chinese Cedar. Used part: root cortex or bark. TCM Effects: To resolve toxin, kill worms, relieve itch. TCM Indications: Lichen sore, goose-foot wind, scalds. Isolated compounds: 4281, 4285, 4286, 4287, 4289, 7514, 9543, 12176, 12185, 19237.
- T1868 *Cryptomeria japonica* (Taxodiaceae); RI BEN LIU SHAN; Japanese Cedar. Isolated compounds: 2410, 3833, 3836, 4291, 7059, 7893, 13862, 20457, 20458, 20459, 20460, 20461, 20462, 20463, 20464.
- T1869 *Cryptotaenia japonica* (Apiaceae); YA ER QIN; Japanese Cryptotaenia. Used part: stem-leaf. TCM Effects: To resolve toxin and eliminate inflammation, quicken blood and disperse swelling. TCM Indications: Pneumonia, pulmonary welling abscess, strangury, mounting *qi*, wind-fire toothache, welling abscess and clove sore, zoster, itchy skin. Isolated compounds: 6482, 11535, 12843, 13800, 15926.
- T1870 *Cistus ladaniferus* (Cistaceae); SHU ZHI BAN RI HUA; Resinoid Cistus*. Isolated compounds: 7481.
- T1871 *Cucubalus baccifer* (Caryophyllaceae); BAI NIU XI; Berry-bearing Campion. Used part: root. TCM Effects: To quicken blood and settle pain, joint bones and engender flesh. TCM Indications: Knocks and falls, fracture, wind-damp bone pain, menstrual disorder, scrofula, welling abscess and flat abscess. Isolated compounds: 11515, 13178, 14071.
- T1873 *Cucumis africanus* (Cucurbitaceae); FEI ZHOU HUANG GUA; African Cucumber*. Isolated compounds: 4317.
- T1874 *Cucumis angolensis* (Cucurbitaceae); AN GE LA HUANG GUA; Angola Cucumber*. Isolated compounds: 4321.
- T1874 *Cucumis hookeri* (Cucurbitaceae); HU KE HUANG GUA; Hooker Cucumber*. Isolated compounds: 4315.
- T1875 *Cucumis leptodermus* (Cucurbitaceae); BO PI HUANG GUA; Lepto Peel Cucumber*. Isolated compounds: 4315.
- T1876 *Cucumis melo* (Cucurbitaceae); GUA DI; Muskmelon Fruit Pedicel. Used part: fruit pedicel. TCM Effects: To promote vomiting, eliminate damp. TCM Indications: Wind stroke, epilepsy, throat impediment, indigestion of overnight food, distending pain in stomach duct, damp-heat jaundice, chronic hepatitis, cirrhosis. Isolated compounds: 3585, 4317, 4320, 6733.
- T1877 *Cucumis myriocarpus* (Cucurbitaceae); MI GUO HUANG GUA; Densefruit Cucumber*. Isolated compounds: 4315.
- T1878 *Cucumis sativus* (Cucurbitaceae); HUANG GUA; Cucumber. Used part: fruit. TCM Effects: To clear heat, disinhibit water, resolve toxin. TCM Indications: Febrile diseases thirst, short voidings of reddish urine, burns and scalds, scant urine with edema, sweat macule, prickly heat. Isolated compounds: 4135, 4312, 4313, 4315, 4317, 4318, 4319, 9616, 11642, 11700, 11701, 11773, 11774, 11775, 11776, 14237, 14254, 15676, 15677, 15679, 16196, 22058, 22581.
- T1879 *Cucumis sativus* var. *hanzil* (Cucurbitaceae); KU HUANG GUA; Bitter Cucumber*. Isolated compounds: 4318.
- T1880 *Cucurbita moschata* (Cucurbitaceae); NAN GUA; Cushaw. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Pulmonary welling abscess, asthma, swollen welling abscess, scalds, poisonous bee stings. Isolated compounds: 617, 2017, 3774, 4329, 14061, 21662.
- T1881 *Cucurbita moschata* (Cucurbitaceae); NAN GUA ZI; Cushaw Seed. Used part: seed. TCM Effects: To expel worms, promote lactation, disinhibit water and disperse edema. TCM Indications: Taeniasis, ascariasis, bilharziosis, ancylostomiasis, oxyuria disease, postpartum scant milk, postpartum edema, pertussis, hemorrhoids. Isolated compounds: 4329, 4330, 4331, 4332, 4333, 4334.
- T1882 *Cucurbita pepo* (Cucurbitaceae); XI HU LU; Pumpkin. Isolated compounds: 1043, 1044, 4314, 4329, 5938, 22975.
- T1883 *Cucurbita pepo* var. *akoda* (Cucurbitaceae); TAO NAN GUA; Peachliking Pumpkin. Isolated compounds: 4329, 22975.
- T1884 *Cudrania cochinchinensis* (Moraceae); GOU JI; Cochinchina Cudrania. Used part: root. TCM Effects: To dispel wind and free network vessels, clear heat and remove damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls, jaundice, parotitis, phthisis, gastric ulcer, duodenal ulcer, strangury-turbidity, tympanites, menstrual block, taxation damage and coughing of blood, clove sore and swollen welling abscess. Isolated

- compounds: 993, 1010, 1764, 2309, 3868, 3869, 4335, 4338, 4339, 4340, 4341, 4342, 4344, 4345, 4346, 4347, 5184, 5826, 5832, 8354, 8355, 8357, 8358, 8359, 9857, 11206, 11248, 14638, 15279, 21488, 21797, 22667.
- T1885 *Cudrania fruticosa* (Moraceae); ZHE TENG; Fructose Cudrania. Isolated compounds: 4336, 8356.
- T1886 *Cudrania javanensis* (Moraceae); ZHAO WA ZHE SHU; Java Cudrania*. Isolated compounds: 18643.
- T1887 *Cudrania* sp. (Moraceae). Isolated compounds: 4337.
- T1888 *Cudrania tricuspidata* (Moraceae); ZHE SHU; Tricuspid Cudrania. Used part: wood. TCM Effects: To enrich and nourish blood vessel, harmonize spleen and stomach. TCM Indications: Vacuity detriment, flooding, malaria. Isolated compounds: 1809, 4343, 20254.
- T1889 *Cuminum cyminum* (Apiaceae); ZI RAN QIN; Cumin. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, rectify *qi* and regulate center. TCM Indications: Cold pain in stomach duct and abdomen, indigestion, cold mounting with abdominal pain, menstrual disorder. Isolated compounds: 4358, 4359, 5798, 7388, 9950, 9951, 13750, 13751, 13756, 13757, 13758, 13759, 13764, 13768, 13769, 14145, 14423, 14424, 14425, 17054.
- T1890 *Cunninghamia konishii* (Taxodiaceae); TAI WAN SHAN MU; Konish Chinafir. Isolated compounds: 5954, 7159, 10295, 10303, 12411.
- T1891 *Cunonia macrophylla* (Cunoniaceae); DA YE KU NUO NI. Isolated compounds: 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- T1892 *Cupania latifolia* (Sapindaceae); Guara, Mestizo, or Guacharaco (in Colombia). Isolated compounds: 16875.
- T1893 *Cuphea* sp. (Lythraceae). Isolated compounds: 3138.
- T1894 *Cupressus abramsiana* (Cupressaceae); AI SHI BAI MU; Abrams Cypress*. Isolated compounds: 21347, 21348.
- T1895 *Cupressus arizonica* (Cupressaceae); LV GAN BAI; Arizona Cypress. Isolated compounds: 4376.
- T1896 *Cupressus funebris* (Cupressaceae); BAI SHU YE; Chinese Weeping Cypress Leaf. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, close sores and engender flesh. TCM Indications: Blood ejection, blood dysentery, hemorrhoids, *lai*, scalds, knife wound, poisonous snake bite. Isolated compounds: 8002, 9543, 17140.
- T1897 *Cupressus macrocarpa* (Cupressaceae); DA GUO BAI MU; Monterey Cypress. Isolated compounds: 21347, 21348.
- T1898 *Cupressus sargentii* (Cupressaceae); SA JIN TE BAI MU; Sargent Cypress. Isolated compounds: 21347, 21348.
- T1899 *Cupressus sempervirens* (Cupressaceae); DI ZHONG HAI BAI MU; Mediterranean Cypress. Isolated compounds: 3354.
- T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*] (Hypoxidaceae); DA YE XIAN MAO; Largeleaf Curculigo. Used part: rhizome. TCM Effects: To supplement kidney and invigorate *yang*, dispel wind and eliminate damp, quicken blood and regulate menstruation. TCM Indications: Kidney vacuity cough asthma, impotence and emission, white turbidity vaginal discharge, limp aching lumbus and knees, wind-damp impediment pain, infertility due to uterus cold, menstrual disorder, flooding and spotting, prolapse of uterus, knocks and falls. Isolated compounds: 6237, 15875.
- T1901 *Curculigo orchioides* (Hypoxidaceae); XIAN MAO; Common Curculigo. Used part: rhizome. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, dispel damp and dissipate cold. TCM Indications: Impotence seminal cool, limp wilting sinew and bone, cold impediment in lumbus and knees, *yang* vacuity cold diarrhea. Isolated compounds: 345, 413, 464, 4381, 4382, 4384, 4385, 4386, 4387, 6200, 13241, 13835, 14481, 16170, 16171, 16172, 20566, 21087, 21088, 21203, 21697, 22936.
- T1902 *Curculigo pilosa* (Hypoxidaceae); MAO XIAN MAO; Pilose Curculigo*. Isolated compounds: 4383, 4385, 15875, 17368, 17369, 17370, 21201.
- T1903 *Curcuma aromatica* (Zingiberaceae); YU JIN; Aromatic Turmeric. Used part: tuberoid. TCM Effects: See *Curcuma longa*. TCM Indications: See *Curcuma longa*. Isolated compounds: 2439, 3045, 3048, 3237, 3633, 4391, 4398, 4400, 21432, 22123, 22983.
- T1904 *Curcuma kwangsiensis* (Zingiberaceae); GUANG XI E SHU; Kwangsi Turmeric. Used part: rhizome. TCM Effects: See *Curcuma zedoaria*. TCM Indications: See *Curcuma zedoaria*. Isolated compounds: 4398.
- T1905 *Curcuma longa* (Zingiberaceae); JIANG HUANG; Common Turmeric. Equivalent plant: *Curcuma aromatica*. Used part: tuberoid. TCM Effects: To break blood and move *qi*, free menstruation and relieve pain. TCM Indications: Gallstones, jaundice, leukaemia in early stage and carcinoma of uterine cervix in early stage, chronic ulcer, chronic scab, blood stasis and *qi* stagnation, pain in chest and abdomen and rib-side, dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, wind-heat impediment pain, knocks and falls, swollen welling abscess. Isolated compounds: 2427, 2428, 2439, 2466, 2467, 2469, 2470, 2960, 4391, 4398, 4398, 4399, 4488, 4895, 5045, 9498, 9855, 11613, 13950, 14642, 17874, 22123, 22124, 22983.
- T1906 *Curcuma* sp. (Zingiberaceae). Isolated compounds: 23004.
- T1907 *Curcuma wengujin* (Zingiberaceae); WEN YU JIN; Wengujin Curcuma*. Used part: tuberoid. TCM Effects: To quicken blood and relieve pain, move *qi* and relieve depression, clear heart and cool blood, course liver and disinhibit gallbladder. TCM Indications: Pain in chest and abdomen and rib-side, dysmenorrhea, menstrual block, concretion and conglomeration with mass, febrile diseases clouded spirit, mania and withdrawal, fright epilepsy, blood ejection, spontaneous external bleeding, blood strangury, sand strangury, jaundice. Isolated compounds: 4399, 4400.
- T1908 *Curcuma xanthorrhiza* (Zingiberaceae); HUANG GEN JIANG HUANG; Xanthorrhiza Turmeric*. Isolated compounds: 966, 4398.
- T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*] (Zingiberaceae); PING E SHU; Zedoary Turmeric. Equivalent plant: *Curcuma kwangsiensis*. Used part: rhizome. TCM Effects: To break blood and dispel stasis, move *qi* and relieve pain, anticancer. TCM Indications: Amenorrhea and dysmenorrhea, concretion conglomeration accumulation and gathering, food accumulation, distending pain in stomach duct and abdomen, indigestion, carcinoma of ovary, carcinoma of skin, genital carcinoma, malignant lymphoma, primary hepatoma, carcinoma of thyroid, carcinoma of stomach, carcinoma of lung. Isolated compounds: 658, 889, 2427, 2428, 2462, 2469, 3045, 4378, 4379, 4380, 4388, 4389, 4393, 4394, 4395, 4396, 4397, 4398, 4399, 4400, 4415, 4416, 4895, 5457, 5577, 6875, 6876, 7116, 7514, 8014, 8015, 8048, 8049, 8347, 8348, 8525, 10147, 11359, 11613, 11789, 15378, 15379, 17875, 18264, 22123, 22124, 22977, 22978, 22979, 22980,

- 22981, 22982, 22983.
- T1910 *Curvularia lunata* Fungus *Curvularia lunata*. Isolated compounds: 5757, 5758, 9800, 9801, 9802, 9803, 10083, 20249.
- T1911 *Cuscuta australis* (Convolvulaceae); NAN FANG TU SI ZI; South Dodder Seed. Used part: ripe seed. TCM Effects: See *Cuscuta chinensis*. TCM Indications: See *Cuscuta chinensis*. Isolated compounds: 1935, 2887, 2906, 3213, 4135, 12020, 13126, 13127, 18317, 19992, 21359.
- T1912 *Cuscuta chinensis* (Convolvulaceae); TU SI ZI; Chinese Dodder Seed. Equivalent plant: *Cuscuta japonica*, *Cuscuta australis*. Used part: ripe seed. TCM Effects: To supplement liver and kidney, secure essence and reduce urine, quiet fetus, brighten eyes, check diarrhea. TCM Indications: Impotence and emission, dribbling urination, enuresis and frequent urination, limp aching lumbus and knees, tinnitus and dim vision, fetal spotting due to kidney vacuity, stirring fetus in pregnancy, diarrhea due to spleen-kidney vacuity, white patch wind. Isolated compounds: 1935, 4418, 10887, 12020, 15459, 18317, 18357.
- T1913 *Cuscuta japonica* (Convolvulaceae); DA TU SI ZI; Japanese Dodder Seed. Used part: ripe seed. TCM Effects: See *Cuscuta chinensis*. TCM Indications: See *Cuscuta chinensis*. Isolated compounds: 12020, 13126, 18317.
- T1914 *Cuscuta lupuliformis* PI JIU HUA TU SI ZI; Hop-shaped Dodder. Isolated compounds: 12020, 18317.
- T1915 *Cuscuta reflexa* (Convolvulaceae); YUN NAN TU SI ZI; Yunnan Dodder. Isolated compounds: 6089, 6094, 6203, 10435, 10437, 20569, 21893.
- T1916 *Cuscuta* sp. (Convolvulaceae). Isolated compounds: 3210.
- T1917 *Cussonia bancoensis* (Araliaceae). Isolated compounds: 1573, 8679, 10820, 22270.
- T1918 *Cussonia racemosa* (Araliaceae). Isolated compounds: 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433.
- T1919 *Cyanostegia angustifolia*. Isolated compounds: 21711, 21857.
- T1920 *Cyanostegia microphylla*. Isolated compounds: 21711.
- T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*] (Commelinaceae); ZHEN ZHU LU SHUI CAO; Spiderweb Blueeargrass, Pearl Cyanotis*. Used part: root. TCM Effects: To free network vessels and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, numbness in limbs, edema, eczema. Isolated compounds: 811, 16291, 16350.
- T1922 *Cyanotis vaga* (Commelinaceae); LU SHUI CAO; Common Cyanotis. Used part: root. TCM Effects: To dispel wind-damp, soothe sinews and quicken network vessels, disinhibit urine. TCM Indications: Wind-damp impediment pain, knocks and falls, edema, otitis media, eczema. Isolated compounds: 3944.
- T1923 *Cyathula capitata* (Amaranthaceae); MA NIU XI; Capitata Cyathula. Used part: root. TCM Effects: To dispel wind-damp, expel stasis blood. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, amenorrhea due to blood stasis, postpartum persistent flow of lochia. Isolated compounds: 1014, 1015, 3131, 4455, 6679, 11361, 17741, 17778, 19730.
- T1924 *Cyathula officinalis* (Amaranthaceae); CHUAN NIU XI; Mediinal Cyathula. Used part: root. TCM Effects: To quicken blood and dispel stasis, dispel wind and disinhibit damp. TCM Indications: Amenorrhea with concretion and conglomeration, retention of placenta, impediment pain in joints, hematuria, blood strangury, knocks and falls. Isolated compounds: 4455, 6679.
- T1925 *Cycas beddomei* (Cycadaceae); NAN YIN DU SU TIE SHU GUO; South-India Sago Seed*. Isolated compounds: 5673, 6411, 21072.
- T1926 *Cycas circinalis* (Cycadaceae); QUAN YE SU TIE; Crozier Cycas. Isolated compounds: 4456, 14134.
- T1927 *Cycas revoluta* (Cycadaceae); SU TIE SHU GUO; Sago Seed. Used part: seed. TCM Effects: To calm liver and lower blood pressure, suppress cough and dispel phlegm, promote astriction and secure astriction. TCM Indications: Hypertension, chronic hepatitis, cough with profuse phlegm, dysentery, emission, vaginal discharge, knocks and falls, knife wound. Isolated compounds: 617, 1030, 4456, 9543, 14151, 15136, 15380, 15381, 15382, 15383, 15384, 15385, 15386, 15664, 22976.
- T1928 *Cycas revoluta* (Cycadaceae); SU TIE YE; Sago Frond. Used part: leaf. TCM Effects: To rectify *qi* and relieve pain, stanch bleeding and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Diarrhea, dysentery, liver stomach *qi* pain, amenorrhea, blood ejection, hematochezia, toxin swelling, bleeding due to external injury, knocks and falls, backache. Isolated compounds: 4456, 20107.
- T1929 *Cyclamen europaeum* (Primulaceae); OU ZHOU XIAN KE LAI; Cyclamen. Isolated compounds: 4457.
- T1930 *Cyclamen persicum* (Primulaceae); XIAN KE LAI; Florists Cyclamen. Isolated compounds: 4457.
- T1931 *Cyclea barbata* (Menispermaceae); YIN BU HUAN; Barbate Cyclea. Used part: root and stem. TCM Effects: To clear heat and resolve toxin, disperse stasis and relieve pain, disinhibit urine and free strangury. TCM Indications: Wind-heat common cold, throat pain, toothache, stomachache, abdominal pain, damp-heat dysentery, malaria, dribbling pain of urination, painful wound from knocks and falls, sprain and contusion. Isolated compounds: 3878, 9597, 11329, 11736, 21206, 21270.
- T1932 *Cyclea racemosa* (Menispermaceae); LUN HUAN TENG; Racemose Cyclea. Used part: root. TCM Effects: To rectify *qi* and relieve pain, dispel damp and resolve toxin. TCM Indications: Distending pain in chest and stomach duct, abdominal pain and diarrhea, wind-damp pain, throat pain, poisonous snake bite, dog bite, swelling toxin of welling abscess and flat abscess, bleeding due to external injury. Isolated compounds: 4460, 20498.
- T1933 *Cyclea sutchuenensis* (Menispermaceae); SI CHUAN LUN HUAN TENG; Szechwan Cyclea. Used part: root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, disinhibit urine and free strangury. TCM Indications: Externally contracted wind-heat, cough, swelling pain in throat, damp-heat diarrhea dysentery, toothache, painful wound from knocks and falls, dribbling and inhibited voidings of urination. Isolated compounds: 4461, 11362.
- T1934 *Cyclea tonkinensis* (Menispermaceae); NAN LUN HUAN TENG; Tonkin Cyclea. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Throat pain and swollen tongue, wind-damp impediment pain, pain in stomach duct and abdomen, amenorrhea and dysmenorrhea. Isolated compounds: 4459, 4461.

- T1935 *Cyclobium* spp. Isolated compounds: 3004.
- T1936 *Cyclocarya paliurus* (Juglandaceae); QING QIAN LIU; Roundwingfruit Cyclocarya. Used part: leaf. TCM Effects: To dispel wind and relieve itch. TCM Indications: Skin lichen. Isolated compounds: 4480, 4481, 4482, 4483.
- T1937 *Cydonia oblonga* (Rosaceae); WEN PO; Common Quince. Used part: fruit. TCM Effects: To warm center and precipitate *qi*, disperse food, check diarrhea, resolve liquor. TCM Indications: Non-digestion of food accumulation, glomus distention in stomach duct and abdomen, water diarrhea, vomiting of sour matter. Isolated compounds: 1102, 7463, 9418, 11574, 15700.
- T1938 *Cymbaria mongolica* (Scrophulariaceae); GUANG YAO DA HUANG HUA; Mongolian Cymbaria. Isolated compounds: 6035, 6038, 6039, 10321, 10322, 10323.
- T1939 *Cymbopogon citratus* (Poaceae); XIANG MAO; Lemongrass. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, warm center and relieve pain, check diarrhea. TCM Indications: Common cold with headache, diarrhea, wind-cold impediment pain, cold pain in stomach duct and abdomen, knocks and falls. Isolated compounds: 3760, 3767, 12987, 15935.
- T1940 *Cymbopogon densiflorus* (Poaceae); MI HUA XIANG MAO; Denseflower Lemongrass*. Isolated compounds: 3767, 6455.
- T1941 *Cymbopogon distans* (Poaceae); YUN XIANG CAO; Remote Lemongrass. Used part: aerial parts. TCM Effects: To resolve exterior, eliminate damp, relieve cough and calm asthma. TCM Indications: Wind-cold common cold, summerheat damage, vomiting diarrhea with abdominal pain, dribbling pain of urination, wind-damp impediment pain, cough and asthma, bronchial asthma. Isolated compounds: 3761, 7442, 8312, 17456.
- T1942 *Cymbopogon flexuosus* (Poaceae); WAN YAN XIANG MAO; Flexuous Lemongrass*. Isolated compounds: 3760, 11966, 17056.
- T1943 *Cymbopogon goeringii* (Poaceae); YE XIANG MAO; Goering Lemongrass. Used part: whole herb. TCM Effects: To relieve cough and calm asthma, dispel wind and eliminate damp, free channels and relieve pain, check diarrhea. TCM Indications: Acute bronchitis, chronic bronchitis, bronchitis, rheumatic arthritis, headache, knocks and falls, diarrhea, *qi* pain in heart and stomach, abdominal pain, water diarrhea. Isolated compounds: 2555, 3241, 3242, 6745, 8313, 9669, 11408, 14531.
- T1944 *Cymbopogon nardus* (Poaceae); JING XIANG MAO; Citronella-grass. Isolated compounds: 3767.
- T1945 *Cymbopogon polyneuros* (Poaceae). Isolated compounds: 16927.
- T1946 *Cymbopogon procerus* (Poaceae); CHANG XIANG MAO; Long Lemongrass*. Isolated compounds: 6745.
- T1947 *Cymbopogon sennaarensis* (Poaceae); XIN NONG XIANG MAO; Senna Lemongrass*. Isolated compounds: 17456.
- T1948 *Cymbopogon winterianus* (Poaceae); WEN TE XIANG MAO; Winter Lemongrass*. Isolated compounds: 3767.
- T1949 *Cynanchum aphyllum* (Asclepiadaceae); WU YE BAI QIAN; Leafless Swallowwort*. Isolated compounds: 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563.
- T1950 *Cynanchum ascyrifolium* (Asclepiadaceae); CHAO FENG CAO; Acuminate Swallowwort. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 4566, 4567.
- T1951 *Cynanchum atratum* (Asclepiadaceae); BAI WEI; Blackend Swallowwort. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 117, 1991, 1992, 1993, 1994, 1995, 1996, 4551, 4568, 5750, 8507, 8520, 21178.
- T1952 *Cynanchum auriculatum* (Asclepiadaceae); ER YE NIU PI XIAO; Auriculate Swallowwort. Used part: tuberoid. TCM Effects: See *Cynanchum bungei*. TCM Indications: See *Cynanchum bungei*. Isolated compounds: 2115, 4552, 4553, 22691, 22692, 22693, 22694.
- T1953 *Cynanchum bungei* (Asclepiadaceae); BAI SHOU WU; Bunge Swallowwort. Equivalent plant: *Cynanchum auriculatum*. Used part: tuberoid. TCM Effects: To supplement lung and boost kidney, strengthen sinews and bones, boost essence and blood, fortify spleen and disperse food, resolve toxin and cure sores. TCM Indications: Aching in lumbus and knees, impotence and emission, dizziness and tinnitus, palpitation and insomnia, inappetence, child *gan* sore, postpartum scant milk, swelling toxin of sore and welling abscess, poisonous snake bite. Isolated compounds: 2747, 2748, 2749, 2750, 3329, 3709, 3722, 4796, 12224, 12713, 12880, 16899, 19361, 22615.
- T1954 *Cynanchum chinense* (Asclepiadaceae); E RONG TENG; Chinese Swallowwort. Used part: white juice in stem. TCM Effects: To clear heat and resolve toxin, disperse accumulation and fortify stomach, disinhibit water and disperse edema. TCM Indications: Child food accumulation, child *gan* accumulation, gastritis, gastritis with edema, duodenal ulcer, wart. Isolated compounds: 4554.
- T1955 *Cynanchum hancockianum* (Asclepiadaceae); HUA BEI BAI QIAN; Hancock Swallowwort. Used part: whole herb. TCM Effects: To quicken blood, relieve pain, eliminate inflammation. TCM Indications: Pain in joints, toothache, bald sores. Isolated compounds: 9212, 9213, 9214, 9215, 9216, 9217, 13740, 15401, 15402, 22492.
- T1956 *Cynanchum japonicum* (Asclepiadaceae); RI BEN NIU PI XIAO; Japanese Swallowwort*. Isolated compounds: 4551.
- T1957 *Cynanchum komarovii* (Asclepiadaceae); NIU XIN PIAO ZI; Komarov Mosquitotrap. Isolated compounds: 5055, 6272.
- T1958 *Cynanchum otophyllum* (Asclepiadaceae); QING YANG SHEN; Auricledleaf Mosquitotrap. Used part: root. TCM Effects: To dispel wind-damp, boost kidney and fortify spleen, resolve snake toxin, resolve dog toxin. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, taxation damage in lumbar muscle, wrenching and contusion from knocks and falls, food accumulation, distending pain in stomach duct and abdomen, child *gan* accumulation, snake bite, dog bite. Isolated compounds: 4751, 16270, 16271, 18291, 18936.
- T1959 *Cynanchum paniculatum* (Asclepiadaceae); XU CHANG QING; Paniculate Swallowwort. Used part: root. TCM Effects: To dispel wind and transform damp, relieve pain and itch. TCM Indications: Rheumatic arthritis, toothache, lumbago, pain after operation, dysmenorrhea, mastitis, infection of skin, eczema, neurodermatitis, urticaria, infective dermatitis, zoster, wind-damp impediment pain, knocks and falls. Isolated compounds: 5055, 11580, 12880, 15388, 15389, 16532, 19361, 21437.

- T1960 *Cynanchum stauntonii* (Asclepiadaceae); LIU YE BAI QIAN; Willowleaf Swallowwort. Used part: root and rhizome. TCM Effects: To downbear *qi*, disperse phlegm, relieve cough. TCM Indications: Stasis of lung *qi*, cough with profuse phlegm, fullness in chest and rapid asthma. Isolated compounds: 1271, 1272, 8507, 9213, 20275, 20276, 20277.
- T1961 *Cynanchum thesioides* (Asclepiadaceae); DI SHAO GUA; Bastardtoadflaxlike Swallowwort. Used part: whole herb and fruit. TCM Effects: To clear vacuity fire, boost *qi*, engender liquid, promote lactation. TCM Indications: Upflaming vacuity fire, throat pain, *qi* and *yin* vacuity, fatigued spirit and amnesia, vacuity vexation and thirst, dizziness and insomnia, postpartum vacuity weakness, scant breast milk. Isolated compounds: 1112, 7768, 7786, 8807, 19912.
- T1962 *Cynanchum versicolor* (Asclepiadaceae); WAN SHENG BAI WEI; Versicolorous Mosquitotrap. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 15387.
Cynanchum vincetoxicum = *Vincetoxicum officinale*
- T1963 *Cynanchum wallichii* (Asclepiadaceae); DUAN JIE SHEN; Kunming Mosquitotrap. Used part: root. TCM Effects: To supplement kidney and strengthen lumbus, strengthen sinews and bones, resolve toxin. TCM Indications: Kidney vacuity lumbago, inability of legs and knees, knocks and falls, fracture, rabid dog bite. Isolated compounds: 18291, 18936.
- T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*] (Asclepiadaceae); GE SHAN XIAO; Wilford Swallowwort. Used part: tuberoid. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, fortify spleen and stomach, resolve toxin. TCM Indications: liver kidney vacuity, dizzy head and vision, sleepless and amnesia, premature graying in beard and hair, impotence, emission, limp aching lumbus and knees, spleen vacuity and functional weakness, distention fullness in stomach duct, inappetence, diarrhea, postpartum scant milk, fish mouth sore toxin. Isolated compounds: 22691, 22692, 22693, 22694.
- T1965 *Cynara cardunculus* (Asteraceae); CI CAI JI; Cardoon. Isolated compounds: 4564, 4565.
- T1966 *Cynara scolymus* (Asteraceae); CAI JI; Globe Artichoke. Used part: leaf. TCM Effects: To course liver and disinhibit gallbladder, clear damp heat. TCM Indications: Jaundice, distending pain in chest and rib-side, damp-heat diarrhea dysentery. Isolated compounds: 4564, 4565, 9015, 11327.
- T1967 *Cynoglossum amabile* (Boraginaceae); GOU SHI HUA; Chinese Forgetmenot. Used part: whole herb. TCM Effects: To clear lung and transform phlegm, stanch bleeding and dissipate stasis, clear heat and disinhibit damp. TCM Indications: Cough, blood ejection, hepatitis, dysentery, odynuria, vaginal discharge, scrofula, knife wound, fracture. Isolated compounds: 1011, 6686.
- T1968 *Cynoglossum australe* (Boraginaceae); NAN FANG LIU LI CAO; South Houndstongue*. Isolated compounds: 1011, 9316.
- T1969 *Cynoglossum officinale* (Boraginaceae); YAO YONG DAO TI HU; Common Houndstongue. Used part: root. TCM Effects: To clear heat and disinhibit damp, relieve cough, stanch bleeding. TCM Indications: Urinary tract infection, dysentery, vaginal discharge, *yin* vacuity cough, hemoptysis, blood ejection, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 917, 6686, 6687, 9316, 9317, 9320, 12535, 17546, 22527.
- T1970 *Cynoglossum pictum* (Boraginaceae); ZHUO SE LIU LI CAO; Picture Houndstongue*. Isolated compounds: 9316.
- T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*] (Boraginaceae); LIU LI CAO; Ceylon Houndstongue. Used part: root and leaf. TCM Effects: To clear heat and resolve toxin, dissipate stasis and stanch bleeding. TCM Indications: Swelling welling abscess and sore and boil, flooding and spotting, coughing of blood, painful swelling from knocks and falls, bleeding due to external injury, poisonous snake bites. Isolated compounds: 11525.
- T1972 *Cynomorium songaricum* (Cynomoriaceae); SUO YANG; Songaria Cynomorium. Used part: fleshy stem. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, moisten intestines and free stool. TCM Indications: Kidney vacuity impotence, emission and premature ejaculation, limp wilting of lower limb, vacuity constipation. Isolated compounds: 530, 4905, 11481, 22270.
- T1973 *Cyperus alopecuroides* (Cyperaceae); KAN MAI NIANG ZHUANG SHA CAO; Foxtail-like Galingale. Isolated compounds: 982, 3242, 4573, 4587, 6548, 7064, 7492, 7498, 7499, 7500, 18941.
- T1974 *Cyperus brevibracteatus* (Cyperaceae); DUAN BAO YE SHA CAO; Shortbractleaf Galingale*. Isolated compounds: 2605.
- T1975 *Cyperus haspan* (Cyperaceae); QI PAN SHA CAO; Asideside Galingale. Isolated compounds: 4576.
- T1976 *Cyperus iria* (Cyperaceae); SUI MI SHA CAO; Rice Galingale. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation. TCM Indications: Wind-damp pain in sinew and bone, paralysis, menstrual disorder, dysmenorrhea, amenorrhea, knocks and falls. Isolated compounds: 11988.
- T1977 *Cyperus papyrus* (Cyperaceae); ZHI SHA CAO; Paper Reed. Isolated compounds: 17375.
- T1978 *Cyperus rotundus* (Cyperaceae); XIANG FU; Nutgrass Galingale. Used part: rhizome. TCM Effects: To move *qi* and relieve depression, regulate menstruation and relieve pain. TCM Indications: women's diseases, menstrual disorder, amenorrhea and dysmenorrhea, liver depression and *qi* pain, distending pain in chest and rib-side, distending pain in stomach duct, indigestion, glomus and oppression in chest and stomach duct, cold mounting with abdominal pain, painful swollen breast. Isolated compounds: 4028, 4574, 4575, 4577, 4578, 4579, 4580, 4581, 6413, 7102, 11364, 11472, 11686, 12242, 15790, 16287, 16709, 16710, 16970, 18681, 18958, 18959, 18960, 20456.
- T1979 *Cyperus* sp. (Cyperaceae). Isolated compounds: 4576.
- T1980 *Cyprinus carpio* (Cyprinidae); LI YU; Carp. Used part: meat. TCM Effects: To fortify spleen and harmonize stomach, disinhibit water and precipitate *qi*, free milk, quiet fetus. TCM Indications: Stomachache, diarrhea, water-damp fullness, inhibited urination, beriberi, jaundice, cough and *qi* counterflow, stirring fetus in pregnancy, edema in pregnancy, postpartum scant milk. Isolated compounds: 4221, 4222, 9568, 15528, 19360.
- T1981 *Cyprinus carpio* (Cyprinidae); LI YU DAN; Carp Gall. Used part: gall.

- TCM Effects:** To clear heat and brighten eyes, dissipate screen and disperse swelling, disinherit throat. **TCM Indications:** Red eyes and distending pain, clear-eye blindness with internal obstruction, throat impediment. **Isolated compounds:** 929, 4582.
- T1982 *Cyprinus carpio* (Cyprinidae); LI YU PI; Carp Skin. **Used part:** skin. **TCM Effects:** To quiet fetus, stanch bleeding. **TCM Indications:** Stirring fetus in pregnancy, fetal spotting, bone stuck in throat. **Isolated compounds:** 1921, 6560, 13126.
- T1983 *Cypripedium calceolus* (Orchidaceae); SHAO LAN; European Ladyslipper. **Isolated compounds:** 4584.
- T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*] (Orchidaceae); DA HUA SHAO LAN; Bigflower Ladyslipper. **Used part:** root. **TCM Effects:** To disinherit urine and disperse edema, quicken blood and relieve pain. **TCM Indications:** Edema in lower limb, strangury, leukorrhea, wind-damp impediment pain, knocks and falls. **Isolated compounds:** 4585, 4586.
- T1985 *Cyrtanthus falcatus* (Amaryllidaceae). **Isolated compounds:** 13568, 14578, 20891.
- T1986 *Cyrtomium fortunei* (Dryopteridaceae); HUN TOU JI; Fortune's Holly Fern. **Used part:** rhizome. **TCM Effects:** To clear heat and resolve toxin, cool blood and extinguish wind, stanch bleeding and dissipate stasis, expel worms. **TCM Indications:** Common cold, febrile diseases, malaria, hepatitis, maculopapular eruption, sand foulness, liver yang dizziness, headache, blood ejection, flooding, vaginal discharge, mammary welling abscess, scrofula, knocks and falls. **Isolated compounds:** 4588.
- T1987 *Cystopteris* sp. (Athyriaceae). **Isolated compounds:** 18000.
- T1988 *Cytisus laburnum* (Fabaceae); LIAN HUA JIN QUE ER; Goldregen. **Isolated compounds:** 14279.
- T1989 *Cytisus monspessulanus* (Fabaceae); FA GUO JIN QUE ER; French Broom. **Isolated compounds:** 4956.
- T1990 *Cytisus osmariensis* (Fabaceae); AO MA JIN QUE HUA; Osmarien Broom*. **Isolated compounds:** 4594.
- T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*] (Fabaceae); JIN QUE ER; Scotch Broom. **Used part:** flower or branchlet. **TCM Effects:** To strengthen heart and disinherit urine, upbear yang and effuse exterior. **TCM Indications:** Edema due to heart disease, arrhythmia, non-eruption of macula, knocks and falls. **Isolated compounds:** 3215, 6559, 11642, 13089, 14638, 15477, 15972, 16209, 20133.
- T1992 *Cytospora eucalypticola*. **Isolated compounds:** 6361, 6369.
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- T1993 *Dacrydium* sp. (Podocarpaceae). **Isolated compounds:** 8401.
- T1994 *Daemonorops draco* (Arecaceae); QI LIN JIE; Draco Yellowvine*. **Used part:** balsam. **TCM Effects:** See *Dracaena cochinchinensis*. **TCM Indications:** See *Dracaena cochinchinensis*. **Isolated compounds:** 2224, 15743, 15744, 18163, 19236.
- T1995 *Dahlia coccinea* (Asteraceae); HONG DA LI HUA; Cocochitl. **Isolated compounds:** 10959.
- T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*] (Asteraceae); DA LI HUA; Aztec Dahlia. **Used part:** tuberoid. **TCM Effects:** To clear heat and resolve toxin, dissipate stasis and relieve pain. **TCM Indications:** Parotitis, decayed teeth, innominate toxin swelling, painful wound from knocks and falls. **Isolated compounds:** 1493, 2843, 21391.
- T1997 *Dahlia* sp. (Asteraceae). **Isolated compounds:** 15279, 22336.
- T1998 *Dalbergia cearensis* (Fabaceae); XI A LA HUANG TAN; Cearen Rosewood*. **Isolated compounds:** 4609, 7883.
- T1999 *Dalbergia cochinchinensis* (Fabaceae); JIAO ZHI HUANG TAN; Siam Rosewood. **Isolated compounds:** 2224, 4609, 4610, 6275, 6276, 10125, 10394, 10514, 12559.
- T2000 *Dalbergia congestiflora* (Fabaceae); JU HUA HUANG TAN; Congested-flower Rosewood*. **Isolated compounds:** 15353.
- T2001 *Dalbergia cultrata* (Fabaceae); XIAO DAO XING HUANG TAN; Cultrate Rosewood*. **Isolated compounds:** 4609.
- T2002 *Dalbergia ecastophyllum* (Fabaceae); YI KA TUO YE HUANG TAN; Ecasto-leaf Rosewood*. **Isolated compounds:** 7883.
- T2003 *Dalbergia ferruginea* (Fabaceae); TIE XIU SE HUANG TAN; Ferruginous Rosewood*. **Isolated compounds:** 4191, 4192.
- T2004 *Dalbergia melanoxylon* (Fabaceae); FEI ZHOU HUANG TAN; African Rosewood. **Isolated compounds:** 4609, 13658.
- T2005 *Dalbergia miscolobium* (Fabaceae); MI SI KE HUANG TAN; Miscol Rosewood*. **Isolated compounds:** 18001.
- T2006 *Dalbergia nitidula* (Fabaceae); GUANG LIANG HUANG TAN; Shining Rosewood*. **Isolated compounds:** 8283, 17092, 21528.
- T2007 *Dalbergia obtusa* (Fabaceae). **Isolated compounds:** 15913.
- T2008 *Dalbergia odorifera* (Fabaceae); JIANG ZHEN XIANG; Odorate Rosewood. Equivalent plant: *Dalbergia sissoo*. **Used part:** heartwood. **TCM Effects:** To quicken blood and dissipate stasis, stanch bleeding and settle pain, downbear qi, break foul. **TCM Indications:** Chest and rib-side pain, knocks and falls, bleeding due to external injury, bleeding due to external injury. **Isolated compounds:** 2574, 3346, 4607, 4608, 4609, 5834, 10375, 10545, 11365, 11404, 11547, 12260, 12908, 13658, 13679, 13680, 13681, 13901, 14098, 14100, 14103, 14280, 14502, 14532, 14619, 14811, 15733, 15913, 16000, 16001, 19393, 20340, 22436, 22783.
- T2009 *Dalbergia oliveri* (Fabaceae); AO LI FO HUANG TAN; Oliver Rosewood*. **Isolated compounds:** 16082, 16083.
- T2010 *Dalbergia retusa* (Fabaceae). **Isolated compounds:** 15913.
- T2011 *Dalbergia riparia* (Fabaceae); HE AN HUANG TAN; Riparian Rosewood*. **Isolated compounds:** 4609, 20900.
- T2012 *Dalbergia sericea* (Fabaceae); JUAN MAO HUANG TAN; Sericeous-leaf Rosewood. **Isolated compounds:** 11504.
- T2013 *Dalbergia sissoo* (Fabaceae); YIN DU HUANG TAN; Sisso Rosewood. **Used part:** heartwood. **TCM Effects:** See *Dalbergia odorifera*. **TCM Indications:** See *Dalbergia odorifera*. **Isolated compounds:** 2385, 4609, 17420, 20902.
- T2014 *Dalbergia* sp. (Fabaceae). **Isolated compounds:** 18020, 20901.
- T2015 *Dalbergia* spp. (Fabaceae). **Isolated compounds:** 3004, 12908.
- T2016 *Dalbergia spruceana* (Fabaceae); QIAO HUANG TAN; Spruce Rosewood*. **Isolated compounds:** 2224.
- T2017 *Dalbergia stevensonii* (Fabaceae); SI TE WEN HUANG TAN; Stevenson Rosewood*. **Isolated compounds:** 4604, 4609, 7883, 11504, 12908, 13638.
- T2018 *Dalbergia variabilis* (Fabaceae); YI BIAN HUANG TAN; Variable Rosewood*. **Isolated compounds:** 13638, 15021, 22347, 22437.
- T2019 *Dalbergia volubilis* (Fabaceae); CHAN RAO HUANG TAN; Voluble

- Rosewood*. Isolated compounds: 2384.
- T2020 *Damnacanthus indicus* (Rubiaceae); HU CI; Indian Damnacanthus. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, quicken blood and disperse swelling. TCM Indications: Pain wind, wind-damp impediment pain, cough of phlegm-rheum, pulmonary welling abscess, edema, lump glomus, jaundice, amenorrhea, child gan accumulation, urticaria, knocks and falls. Isolated compounds: 900, 2299, 4622, 4623, 5522, 9771, 11990, 15734, 15765.
- T2021 *Damnacanthus major* (Rubiaceae). Isolated compounds: 11990, 15734.
- T2022 *Daniellia oliveri* (Fabaceae); AO SHI DAN NI SU MU. Isolated compounds: 7161.
- T2023 *Daphne genkwa* (Thymelaeaceae); YUAN HUA; Lilac Daphne. Used part: bud. TCM Effects: To drain water and expel rheum, relieve cough and dispel phlegm, resolve toxin and kill worms. TCM Indications: Edema, ascites, hydrothorax, cough with profuse phlegm, chronic bronchitis, malaria, scalp infection, infection of skin, tinea capitis, neurodermatitis, induce abortion, toothache. Isolated compounds: 1476, 8286, 8289, 10137, 13137, 15514, 15990, 21392, 22929, 22930, 22931, 22932, 22933.
- T2024 *Daphne genkwa* (Thymelaeaceae); YUAN HUA GEN; Lilac Daphne Root. Used part: root. TCM Effects: To expel water, resolve toxin, dissipate binds. TCM Indications: Edema, scrofula, mammary welling abscess, hemorrhoids, scab sore. Isolated compounds: 4652, 4653, 4654, 4655, 4656, 11366, 22929, 22930.
- T2025 *Daphne gnidium* (Thymelaeaceae); JING YA MA YE RUI XIANG; Garou Bush. Isolated compounds: 4657.
- T2026 *Daphne mezereum* (Thymelaeaceae); OU YA RUI XIANG; Mezereon. Isolated compounds: 4649, 14826.
- T2027 *Daphne odora* (Thymelaeaceae); RUI XIANG GEN; Winter Daphne Root. Used part: root. TCM Effects: To resolve toxin, quicken blood and relieve pain. TCM Indications: Acute throat wind, pain in stomach duct, knocks and falls, poisonous snake bite. Isolated compounds: 4642, 4651, 12521, 15990, 15999.
- T2028 *Daphne odora* (Thymelaeaceae); RUI XIANG HUA; Winter Daphne Flower. Used part: flower. TCM Effects: To quicken blood and relieve pain, resolve toxin and dissipate binds. TCM Indications: Swelling pain in throat, headache, toothache, wind-damp pain, mammary welling abscess, swollen hard breast. Isolated compounds: 4645, 4646, 4650, 22195.
- T2029 *Daphne oleoides* (Thymelaeaceae); YOU RUI XIANG; Oily Daphne*. Isolated compounds: 1127, 4641, 4644, 5995, 8287, 8288, 8899, 8900, 8901, 16069, 16070, 16737, 19651.
- T2030 *Daphne retusa* (Thymelaeaceae); AO YE RUI XIANG; Retuseleaf Daphne. Used part: stem bark and root cortex. TCM Effects: See *Daphne tangutica*. TCM Indications: See *Daphne tangutica*. Isolated compounds: 4643.
- T2031 *Daphne tangutica* (Thymelaeaceae); SHAN GAN RUI XIANG; Tangut Daphne. Equivalent plant: *Daphne retusa*. Used part: stem bark and root cortex. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, headache, stomachache, lumbago, knocks and falls. Isolated compounds: 4643, 12521.
- T2032 *Daphniphyllum calycinum* (Daphniphyllaceae); NIU ER FENG ZI; Calyx-shaped Daphniphyllum Fruit. Used part: fruit. TCM Effects: To check dysentery. TCM Indications: Chronic dysentery. Isolated compounds: 4640, 7996, 10166, 22959, 22960.
- T2033 *Daphniphyllum macropodum* (Daphniphyllaceae); JIAO RANG MU; Macropodous Daphniphyllum. Used part: leaf and seed. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of sore and boil. Isolated compounds: 1892, 4659, 4716.
- T2034 *Daphnopsis racemosa* ZONG ZHUANG JIA RUI XIANG. Isolated compounds: 17958.
- T2035 *Darlingia darlingiana*. Isolated compounds: 4660.
- T2036 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO GEN; Hairy Datura Root. Used part: root. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 6525, 9856, 10870, 10872, 13819, 18072, 22050.
- T2037 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO HUA; Hairy Datura Flower. Used part: flower. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 2001, 10872, 21372, 22158.
- T2038 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO YE; Hairy Datura Leaf. Used part: leaf. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 1526, 2887, 4417, 10870, 10872, 12908, 13819, 22158.
- T2039 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO ZI; Hairy Datura Seed. Used part: seed or fruit. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 2001, 10872, 12891, 13819, 16066.
- T2040 *Datura metaloides* XIANG MAN TUO LUO; Fragrant Datura*. Isolated compounds: 13819.
- T2041 *Datura metel* (Solanaceae); MAN TUO LUO GEN; Hindu Datura Root. Equivalent plant: *Datura stramonium*, *Datura innoxia*. Used part: root. TCM Effects: To suppress cough, relieve pain, draw out pus. TCM Indications: Cough and asthma, wind-damp impediment pain, boil and lichen, malign sore, rabid dog bite. Isolated compounds: 10870, 10872, 18072, 22050.
- T2042 *Datura metel* (Solanaceae); MAN TUO LUO YE; Hindu Datura Leaf. Equivalent plant: *Datura innoxia*. Used part: leaf. TCM Effects: To suppress cough and calm asthma, relieve pain and draw out pus. TCM Indications: Cough and asthma, impediment pain, beriberi, prolapse of rectum. Isolated compounds: 2001, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4673, 4674, 10870, 10872.
- T2043 *Datura metel* (Solanaceae); MAN TUO LUO ZI; Hindu Datura Seed. Equivalent plant: *Datura innoxia*, *Datura stramonium*. Used part: seed or fruit. TCM Effects: To calm asthma, dispel wind, relieve pain. TCM Indications: Cough and asthma, fright epilepsy, wind-cold-damp impediment, dysentery, prolapse of rectum, knocks and falls. Isolated compounds: 3773, 4491, 10872, 12891, 15771, 15772, 15901, 16066, 22050.
- T2044 *Datura metel* (Solanaceae); YANG JIN HUA; Hindu Datura Flower. Equivalent plant: *Datura innoxia*. Used part: flower. TCM Effects: To suppress cough and calm asthma, relieve pain and settle tetany. TCM Indications: Cough and asthma without phlegm, cold pain in heart and

- abdomen, wind-damp impediment pain, knocks and falls, epilepsy, chronic fright wind, anesthesia. Isolated compounds: 1287, 2001, 10870, 10872, 21372.
- T2045 *Datura* spp. (Solanaceae). Isolated compounds: 10870.
- T2046 *Datura stramonium* (Solanaceae); OU MAN TUO LUO GEN; Jimsonweed Root. Used part: root. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 664, 2001, 4417, 10872, 22049.
- T2047 *Datura stramonium* (Solanaceae); WAN TAO HUA ZI; Jimsonweed Seed*. Used part: seed or fruit. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 15772, 15773.
- T2048 *Daucus carota* (Apiaceae); HE SHI FENG; Wild Carrot. Used part: whole herb. TCM Effects: To kill worms, disperse swelling, disperse *qi*, transform phlegm. TCM Indications: Worm accumulation, *gan* accumulation, distention fullness in stomach duct and abdomen, edema, jaundice, poison from smoke, damp itchy in sore and papules, alopecia areata. Isolated compounds: 207, 208, 218, 1840, 3216, 4676, 4679, 7707, 7756, 7767, 18275.
- T2049 *Daucus carota* (Apiaceae); NAN HE SHI; Wild Carrot Fruit. Used part: fruit. TCM Effects: To kill worms, disperse accumulation, relieve itch. TCM Indications: Ascariasis, oxyuria disease, taeniasis, ancylostomiasis, abdominal pain due to worm accumulation, child *gan* accumulation, pudendal itch. Isolated compounds: 1840, 2306, 2412, 3045, 3208, 3209, 3210, 3211, 3216, 4140, 4390, 4675, 4679, 4835, 6745, 7073, 7707, 9088, 12843, 12849, 13212, 14531, 15204, 17028, 17127, 17376, 19687, 20988, 20992, 21371, 22195.
- T2050 *Daucus carota* var. *sativa* (Apiaceae); HU LUO BO; Carrot. Used part: root. TCM Effects: To fortify spleen and harmonize center, relieve cough and transform phlegm, clear heat and resolve toxin. TCM Indications: Indigestion, chronic dysentery, cough. Isolated compounds: 3208, 3212, 3215, 3241, 3242, 3760, 3768, 8313, 14586, 17264, 18275.
- T2051 *Daucus carota* var. *sativa* (Apiaceae); HU LUO BO ZI; Carrot Seed. Used part: seed. TCM Effects: To dissipate cold and dry damp, disinhibit water and kill worms. TCM Indications: Chronic dysentery, phlegm asthma. Isolated compounds: 3216, 4679, 8313.
- T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*] (Davalliaceae); DA YE GU SUI BU; Taiwan Davallia. Used part: rhizome. TCM Effects: To quicken blood and transform stasis, supplement kidney and strengthen bones, dispel wind and relieve pain. TCM Indications: Knocks and falls, kidney vacuity lumbago, wind-damp bone pain. Isolated compounds: 9635, 9639, 15406, 15748.
- T2053 *Davallia mariesii* (Davalliaceae); HAI ZHOU GU SUI BU; Squirrel's Foot Fern. Used part: rhizome. TCM Effects: To move blood and quicken network vessels, dispel wind and relieve pain, supplement kidney and strengthen bones. TCM Indications: Wind-damp impediment pain, knocks and falls, kidney vacuity toothache, lumbago, chronic diarrhea. Isolated compounds: 2889, 9637, 9638, 9639, 9640, 9642, 11457, 13567, 15254, 17869, 17888, 22334, 22342, 22343.
- T2054 *Davallia solida* (Davalliaceae); KUO YE GU SUI BU; Broadleaf Davallia. Isolated compounds: 8741, 22841.
- T2055 *Davallia* sp. (Davalliaceae). Isolated compounds: 22465.
- T2056 *Debregeasia longifolia* (Urticaceae); CHANG YE SHUI MA; Longleaf Debregeasia. Used part: stem-leaf. TCM Effects: To dispel wind and relieve cough, clear heat and disinhibit damp. TCM Indications: Wind damage and common cold, cough, heat impediment, cystitis, innominate toxin swelling, toothache. Isolated compounds: 8095.
- T2057 *Decodon verticillatus* (Lythraceae); DI KE DONG; Swamp Loosestrife. Isolated compounds: 4832, 22433.
- T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*] (Amaranthaceae); JIANG GUO XIAN; Frutescent Cladostachys. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, dysentery, diarrhea. Isolated compounds: 18229.
- T2059 *Dehaasia triandra* (Lauraceae); SAN RUI LIAN GUI; Threestamen Dehaasia*. Isolated compounds: 15881.
- T2060 *Delonix regia* (Fabaceae); FENG HUANG MU; Flamboyanttree. Used part: bark. TCM Effects: To calm liver and subdue *yang*. TCM Indications: Hypertension due to liver heat, dizziness, vexation. Isolated compounds: 2057, 18281.
- T2061 *Delphinium barbeyi* (Ranunculaceae); BA BI CUI QUE HUA; Barbey Larkspur*. Isolated compounds: 1366.
- T2062 *Delphinium bonvalotii* (Ranunculaceae); CHUAN QIAN CUI QUE HUA; Bonvalot Larkspur. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 4998.
- T2063 *Delphinium brownii* (Ranunculaceae); BAO SHI FEI YAN CAO; Brown Larkspur*. Isolated compounds: 2657.
- T2064 *Delphinium carduchorum* (Ranunculaceae). Isolated compounds: 3191, 5002.
- T2065 *Delphinium carolinianum* (Ranunculaceae); KA LUO LAI NA CUI QUE; Carolina Larkspur*. Isolated compounds: 782.
- T2066 *Delphinium cashmerianum* (Ranunculaceae); KE SHEN MI ER CUI QUE; Kashmir Larkspur. Isolated compounds: 2042, 12510, 13169.
- T2067 *Delphinium confusum* (Ranunculaceae); YI SI CUI QUE; Confusable Larkspur*. Isolated compounds: 3963.
- T2068 *Delphinium consolida* (Ranunculaceae); QIANG GU FEI YAN CAO; Consolidated Larkspur*. Isolated compounds: 5004, 5035, 13189.
- T2069 *Delphinium corumbosum* (Ranunculaceae); GUANG FEI YAN CAO; Light Larkspur*. Isolated compounds: 5003.
- T2070 *Delphinium crispulum* (Ranunculaceae); TU ER QI CUI QUE HUA; Turkish Larkspur*. Isolated compounds: 4242, 5009.
- T2071 *Delphinium denudatum* (Ranunculaceae); LU CUI QUE; Denuded Larkspur*. Isolated compounds: 3963, 5136, 11728.
- T2072 *Delphinium dictyocarpum* (Ranunculaceae); WANG GUO CUI QUE HUA; Reticulatefruit Larkspur. Isolated compounds: 5036.
- T2073 *Delphinium dissectum* (Ranunculaceae); SHEN LIE CUI QUE HUA; Deeplobed Larkspur*. Isolated compounds: 10501.
- T2074 *Delphinium elatum* (Ranunculaceae); GAO FEI YAN CAO; Alpine Larkspur. Isolated compounds: 5036, 6734, 14569.
- T2075 *Delphinium excelsum* (Ranunculaceae); GAO DA CUI QUE HUA; High Larkspur*. Isolated compounds: 10501, 10543, 14286.
- T2076 *Delphinium giralddii* (Ranunculaceae); QIN LING CUI QUE HUA; Girald Larkspur. Isolated compounds: 4991, 5618, 8454, 8455, 20001,

- 20727, 21445.
- T2077 *Delphinium grandiflorum* (Ranunculaceae); CUI QUE HUA; Bouquet Larkspur. Used part: whole herb or root. TCM Effects: To dispel wind-damp, relieve pain, kill worms and relieve itch. TCM Indications: Wind-heat toothache, wind-damp impediment pain, sore swelling abscess and lichen *lai*. Isolated compounds: 14569.
- T2078 *Delphinium iliense* (Ranunculaceae); YI LI CUI QUE HUA; Ili Larkspur. Isolated compounds: 5036.
- T2079 *Delphinium kamaonense* var. *glabrescens* (Ranunculaceae); ZHAN MAO CUI QUE HUA; Hair Larkspur. Used part: whole herb. TCM Effects: To clear heat and dry damp, check dysentery. TCM Indications: Damp-heat dysentery, enteritis and diarrhea. Isolated compounds: 8491, 20727.
- T2080 *Delphinium occidentale* (Ranunculaceae); XI FANG CUI QUE; Occidental Larkspur*. Isolated compounds: 5036.
- T2081 *Delphinium omeiense* (Ranunculaceae); E MEI CUI QUE HUA; Emei Larkspur. Equivalent plant: *Delphinium bonvalotii*, *Delphinium potaninii*, *Delphinium potaninii* var. *jiufengshanense*. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain, disperse swelling and resolve toxin. TCM Indications: Wind-damp pain in sinew and bone, stomachache, painful swelling from knocks and falls, swelling abscess and sores, hemorrhoids, lichen *lai*. Isolated compounds: 1366, 5005, 5006, 5033, 5034, 5035, 5038, 11372, 12372, 13189, 14569, 17745.
- T2082 *Delphinium oreophilum* (Ranunculaceae); XI SHAN CUI QUE; Montane Larkspur. Isolated compounds: 338.
- T2083 *Delphinium pentagynum* (Ranunculaceae); WU ZHU FEI YAN CAO; Fivestyle Larkspur*. Isolated compounds: 3201, 4897, 5056, 5083, 8044.
- T2084 *Delphinium potaninii* (Ranunculaceae); HEI SHUI CUI QUE; Potanin Larkspur. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 17743, 17744.
- T2085 *Delphinium potaninii* var. *jiufengshanense* (Ranunculaceae); HEI SHUI CUI QUE HUA BIAN ZHONG; Potanin Larkspur Variety*. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 1366, 6732, 8511, 11887, 11888.
- T2086 *Delphinium staphisagria* (Ranunculaceae); SI TA WEI CUI QUE HUA; Stavisacre. Isolated compounds: 5032, 20262.
- T2087 *Delphinium tatsienense* (Ranunculaceae); KANG DING CUI QUE HUA; Kangting Larkspur. Used part: root. TCM Effects: To warm center and relieve pain. TCM Indications: Cold pain in abdomen, taxation damage and sinew bone pain. Isolated compounds: 782, 5038, 9472, 20726, 20727, 20728, 20729.
- T2088 *Delphinium tricorne* (Ranunculaceae); SAN JU AI CUI QUE; Spring Larkspur. Isolated compounds: 21593.
- T2089 *Delphinium trifoliolatum* (Ranunculaceae); SAN XIAO YE CUI QUE HUA; Threefoliolate Larkspur. Isolated compounds: 21635, 21636, 21637.
- T2090 *Delphinium virescens* (Ranunculaceae); DAN LV CUI QUE; Virescent Larkspur. Isolated compounds: 782.
- T2091 *Delphinium yunnanense* (Ranunculaceae); XIAO CAO WU; Yunnan Larkspur. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain, settle fright. TCM Indications: Wind-cold-damp impediment, stomachache, epilepsy, infant fright wind, knocks and falls. Isolated compounds: 5004, 7521.
- T2092 *Delphinus delphis* (Delphinidae); HAI TUN YU; Dolphin. Used part: meat or fat. TCM Effects: To resolve toxin, engender flesh, settle pain. TCM Indications: Tinea capitis, sore and boil, hemorrhoids and fistulas, burns and scalds, miasmatic malaria, tympanites. Isolated compounds: 11754.
- T2093 *Dendranthema grandiflorum* (Asteraceae); DA HUA JU; Large-flowered Dendranthema*. Isolated compounds: 5594, 13128, 13129, 13130, 13131, 13132.
- T2094 *Dendrobium aduncum* (Orchidaceae); GOU ZHUANG SHI HU; Hooked Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 654.
- T2095 *Dendrobium amoenum* (Orchidaceae); KE AI SHI HU; Delightful Dendrobium. Isolated compounds: 1070, 11216.
- T2096 *Dendrobium aurantiacum* var. *denneanum* (Orchidaceae); DIE QIAO SHI HU; Denne Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 19540.
- T2097 *Dendrobium capillipes* (Orchidaceae); DUAN BANG SHI HU; Hairstalk Dendrobium. Isolated compounds: 19540.
- T2098 *Dendrobium chrysanthum* (Orchidaceae); SHU HUA SHI HU; Goldenflower Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627, 10835.
- T2099 *Dendrobium chrysotoxum* (Orchidaceae); GU CHUI SHI HU; Yellowbow Dendrobium. Isolated compounds: 3627, 3628.
- T2100 *Dendrobium densiflorum* (Orchidaceae); MI HUA SHI HU; Denseflower Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 4585, 5128, 5132, 5133, 5970, 6163, 8380, 9604, 14996, 19540, 19542, 22041.
- T2101 *Dendrobium fimbriatum* (Orchidaceae); LIU SU JIN SHI HU; Fimbriate Dendrobium*. Used part: whole herb. TCM Effects: To clear heat, moisten lung, relieve cough. TCM Indications: Cough, asthma, tuberculosis, pleuritis, fluid damage and thirst. Isolated compounds: 7799.
- T2102 *Dendrobium fimbriatum* var. *oculatum* (Orchidaceae); LIU SU SHI HU; Eyeshaped Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627, 19983.
- T2103 *Dendrobium findleyanum* (Orchidaceae); FEN LAI SHI HU; Findley Dendrobium*. Isolated compounds: 5108.
- T2104 *Dendrobium gratiosissimum* (Orchidaceae); BEI QIAO SHI HU; Muchlovable Dendrobium. Isolated compounds: 3627.
- T2105 *Dendrobium loddigesii* (Orchidaceae); MEI HUA SHI HU; Loddiges Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 14997, 19802, 19803.
- T2106 *Dendrobium moniliforme* (Orchidaceae); XI JING SHI HU;

- Moliform *Dendrobium**. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 85, 3627, 5109, 5110, 5111, 5112, 5113, 5116, 5117, 5118, 5119, 5125, 10035, 10036, 22338.
- T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble *Dendrobium*. Equivalent plant: *Dendrobium loddigesii*, *Dendrobium densiflorum*, *Dendrobium officinale*, *Dendrobium chrysanthum*, *Dendrobium fimbriatum* var. *oculatum*, *Dendrobium aduncum*, *Dendrobium moniliforme*, *Dendrobium aurantiacum* var. *denneanum*. Used part: stem. TCM Effects: To boost stomach and engender liquid, enrich *yin* and clear heat. TCM Indications: *Yin* damage liquid depletion, dry mouth with vexation and thirst, reduced food intake with dry retching, vacuity heat during convalescence, dim vision. Isolated compounds: 5106, 5107, 5108, 5120, 5121, 5122, 5123, 5124, 5125, 5126, 5127, 9982, 9983, 9984, 11585, 11586, 11587, 14288, 15639, 15640, 15705.
- T2108 *Dendrobium officinale* (Orchidaceae); TIE PI SHI HU; Iron-sheet *Dendrobium*. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627.
- T2109 *Dendrobium primulinum* (Orchidaceae); BAO CHUN SHI HU; Primrose *Dendrobium*. Isolated compounds: 3627.
- T2110 *Dendrobium thyrsiflorum* (Orchidaceae); JU HUA SHI HU; Thyrsiflower *Dendrobium*. Isolated compounds: 19540.
- T2111 *Dendrobium williamsonii* (Orchidaceae); HEI MAO SHI HU; Blackhair *Dendrobium*. Isolated compounds: 3627.
- T2112 *Dendrosicyos socotrana* (Cucurbitaceae); Cucumber Tree. Isolated compounds: 5114, 11356.
- T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*] (Dennstaedtiaceae); WAN JUE; Scabrous Boulder Fern. Used part: whole herb. TCM Effects: To dispel wind, clear heat and resolve exterior. TCM Indications: Common cold with headache, wind-damp impediment pain. Isolated compounds: 16102, 18098, 18157.
- T2114 *Deprea subtriflora*. Isolated compounds: 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1457.
- T2115 *Dermatocarpon minutum* (Dermatocarpaceae); HEI SHI ER. Used part: lichen body. TCM Effects: To disperse food, disinherit water, lower blood pressure. TCM Indications: Indigestion, abdominal distention, dysentery, *gan* accumulation, hypertension. Isolated compounds: 22607.
- T2116 *Dermocybe* sp. Isolated compounds: 2019, 2020.
- T2117 *Derris amazonica* (Fabaceae); YA MA XUN YU TENG; Amazonian Jewelvine*. Isolated compounds: 19394.
- T2118 *Derris elliptica* (Fabaceae); MAO YU TENG; Tubaroot Jewelvine. Isolated compounds: 4872, 6028, 18939, 21483.
- T2119 *Derris eriocarpa* (Fabaceae); MAO GUO YU TENG; Hairypod Fishvane. Used part: lianoid stem. TCM Effects: To disinherit urine and free strangury, transform phlegm and relieve cough. TCM Indications: Nephritis, cystitis, urethritis, beriberi with edema, cough. Isolated compounds: 6061, 7273, 7274.
- T2120 *Derris malaccensis* (Fabaceae); MA LIU JIA YU TENG; Malacca Jewelvine*. Isolated compounds: 13415, 20485.
- T2121 *Derris mollis* (Fabaceae); MO LI YU TENG; Molly Jewelvine*. Isolated compounds: 12163.
- T2122 *Derris robusta* (Fabaceae); CU ZHUANG YU TENG; Robust Jewelvine. Isolated compounds: 5235.
- T2123 *Derris scandens* (Fabaceae); PAN YUAN YU TENG; Climbing Jewelvine. Isolated compounds: 3475, 3602, 5222, 5223, 5224, 5225, 5226, 5227, 5228, 5229, 5230, 5231, 5232, 5233, 5234, 6496, 7317, 7825, 7826, 8278, 8278, 11324, 11683, 13088, 13105, 13106, 13107, 13281, 16249, 18685, 19299, 19449, 19450, 19451, 19452, 19453, 22189, 22637.
- T2124 *Derris trifoliata* (Fabaceae); YU TENG; Trifoliolate Jewelvine. Used part: root or whole herb. TCM Effects: To dissipate stasis and relieve pain, kill worms and relieve itch. TCM Indications: Painful swelling from knocks and falls, lichen. Isolated compounds: 4872, 6762, 10067, 18939, 18939, 20965, 21483, 21483, 21484.
- T2125 *Descurainia sophia* (Brassicaceae); BO NIANG HAO; Flixweed Tansymustard Seed. Used part: seed. TCM Effects: See *Lepidium apetalum*. TCM Indications: See *Lepidium apetalum*. Isolated compounds: 948, 949, 2294, 5245, 5246, 5247, 7291, 9335, 9452, 11642, 11648, 11657, 11659, 12059, 16887, 18364, 19909, 19913, 19914, 19915, 20397.
- T2126 *Desfontainia spinosa* DUO CI DI SHI MU; *Desfontainia spinosa*. Isolated compounds: 15539, 20171.
- T2127 *Desmanthus illinoensis* (Fabaceae); YI LI NUO HE HUAN CAO; Prairie Mimosa. Isolated compounds: 5252.
- T2128 *Desmodium canum* (Fabaceae); DAN HUI BAI SHAN MA HUANG; Light-hoar Tickclover*. Isolated compounds: 5264, 5265, 14754.
- T2129 *Desmodium cephalotes* (Fabaceae); JIA MU DOU; Capitulum Tickclover*. Isolated compounds: 9646.
- T2130 *Desmodium gangeticum* (Fabaceae); HONG MU JI CAO; Hookedhairypod Tickclover. Used part: stem-leaf. TCM Effects: To dispel stasis and regulate menstruation, resolve toxin, relieve pain. TCM Indications: Knocks and falls, prolapse of uterus, prolapse of rectum, amenorrhea, psoriasis, toothache, headache. Isolated compounds: 6370, 6418, 6420, 9646, 10590, 10877, 13920, 14008, 14750, 14796, 17083.
- T2131 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*] (Fabaceae); PAI QIAN CAO; Beautiful Phylloidium. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, dispel wind and move water, quicken blood and disperse swelling. TCM Indications: Common cold with fever, swelling pain in throat, *gan* of teeth and gum, wind-damp impediment pain, edema, ascites, liver spleen enlargement, knocks and falls, poisonous insect stings, malaria, bilharziosis. Isolated compounds: 6370, 6418, 6420, 13920, 14038.
- T2132 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*] (Fabaceae); PAI QIAN CAO GEN; Beautiful Phylloidium Root. Used part: root. TCM Effects: To transform stasis and disperse concretion, clear heat and disinherit water. TCM Indications: Concretion and conglomeration, pain in rib-side, jaundice, ascites, damp-heat impediment, amenorrhea, menstrual disorder, welling abscess and flat abscess with clove sore, knocks and falls. Isolated compounds: 1110.
- T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*] (Fabaceae); SHAN MA HUANG; Acutifoliate Podocarpium. Used part: herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, flooding, vaginal discharge,

- pharyngolaryngitis, mammary welling abscess, knocks and falls, poisonous snake bite. Isolated compounds: 12018.
- T2134 *Desmodium styracifolium* (Fabaceae); GUANG JIN QIAN CAO; Snowbelleaf Tickclover. Used part: aerial parts. TCM Effects: To clear heat and eliminate damp, disinhibit urine and free strangury. TCM Indications: Heat strangury, sand strangury, stone strangury, pain of hot urine, scant urine with edema, jaundice with reddish urine, urethral stone. Isolated compounds: 1598, 5266, 5267, 5698, 18706, 20280, 22042.
- T2135 *Desmodium tiliaefolium* (Fabaceae); DUAN YE SHAN MA HUANG; Lindenleaf Tickclover*. Isolated compounds: 9646.
- T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*] (Annonaceae); JIA YING ZHAO; Chinese Desmos. Used part: leaf. TCM Effects: To dispel wind and disinhibit damp, transform stasis and relieve pain, fortify spleen and harmonize stomach, interrupt malaria and kill worms. TCM Indications: Wind-damp impediment pain, edema, diarrhea, indigestion, distending pain in stomach duct, malaria, wind papules, knocks and falls, scab and lichen, foot rot. Isolated compounds: 5270, 5985.
- T2137 *Desmos dumosus* (Annonaceae); MAO YE JIA YING ZHAO GEN; Piloseleaf Desmos Root. Isolated compounds: 5268, 5269.
- T2138 *Dialium guineense* (Anacardiaceae); Velvet Tamarind. Isolated compounds: 22839.
- T2139 *Dianella ensifolia* (Liliaceae); SHAN MAO ER; Swordleaf Dianella. Used part: rhizome or whole herb. TCM Effects: To draw out toxin and disperse swelling, dissipate stasis and relieve pain. TCM Indications: Scrofula, sore and lichen, welling abscess and flat abscess, knocks and falls. Isolated compounds: 14639.
- T2140 *Dianella nigra* (Liliaceae); HEI JIE GENG LAN; Black Dianella*. Isolated compounds: 382, 5019, 5026, 5031.
- T2141 *Dianella tasmanica* (Liliaceae); TA SI MA NI YA JIE GENG LAN; Flax Lily. Isolated compounds: 382, 5019, 5026, 5031.
- T2142 *Dianthus caryophyllus* (Caryophyllaceae); SHE XIANG SHI ZHU; Carnation. Isolated compounds: 5366, 5372, 5529, 5530.
- T2143 *Dianthus chinensis* (Caryophyllaceae); SHI ZHU; Chinese Pink. Used part: aerial parts. TCM Effects: See *Dianthus superbus*. TCM Indications: See *Dianthus superbus*. Isolated compounds: 2068, 2297, 5371, 7521.
- T2144 *Dianthus* sp. (Caryophyllaceae). Isolated compounds: 3454.
- T2145 *Dianthus superbus* (Caryophyllaceae); QU MAI; Lilac Pink. Equivalent plant: *Dianthus chinensis*, *Dianthus versicolor*. Used part: aerial parts. TCM Effects: To disinhibit urine and free strangury, break blood and free menstruation, anticancer. TCM Indications: Strangury, heat strangury, blood strangury, stone strangury, urinary tract infection, urinary stoppage, dripping with inhibited pain, amenorrhea, carcinoma of esophagus, carcinoma of rectum. Isolated compounds: 2280, 2297, 5358, 5359, 5367, 5368, 5369, 5370, 13903, 14718.
- T2146 *Dianthus superbus* var. *longicalycinus* (Caryophyllaceae); CHANG E QU MAI; Longcalyx Pink*. Isolated compounds: 5358, 5364, 12954.
- T2147 *Dianthus versicolor* (Caryophyllaceae); BIAN SE SHI ZHU; Versicolorous Pink. Used part: aerial parts. TCM Effects: See *Dianthus superbus*. TCM Indications: See *Dianthus superbus*. Isolated compounds: 5358, 5359, 5360, 5361, 5362, 5363, 5364, 5365.
- T2148 *Dicentra cucullaria* (Papaveraceae); DOU ZHUANG HE BAO MU DAN; Dutchman's Breeches. Isolated compounds: 642, 4351, 4353, 15918.
- T2149 *Dicentra eximia* (Papaveraceae); SUI MAO HE BAO MU DAN; Wild Bleedingheart. Isolated compounds: 4352, 4353, 8513.
- T2150 *Dicentra formosa* (Papaveraceae); MEI LI HE BAO MU DAN; Bleedingheart. Isolated compounds: 4353.
- T2151 *Dicentra oregana* (Papaveraceae); E LE GANG HE BAO MU DAN; Oregon Bleedingheart. Isolated compounds: 4353.
- T2152 *Dicentra peregrina* (Papaveraceae); YI YANG HE BAO MU DAN; Peregrin Bleedingheart*. Isolated compounds: 12603, 19284.
- T2153 *Dicentra pusilla* (Papaveraceae); XI XIAO HE BAO MU DAN; Little Bleedingheart*. Isolated compounds: 5417.
- T2154 *Dicentra spectabilis* (Papaveraceae); HE BAO MU DAN GEN; Showy Bleedingheart Root. Used part: rhizome. TCM Effects: To dispel wind, quicken blood, settle pain. TCM Indications: Incised wound, sore toxin, stomachache. Isolated compounds: 3494, 3498, 3507, 3508, 4032, 4290, 18655, 19284, 19566.
- T2155 *Dicentra* spp. (Papaveraceae). Isolated compounds: 3498.
- T2156 *Dichelostemma multiflorum*. Isolated compounds: 2613, 2614, 20214.
- T2157 *Dichotomanthes tristaniaecarpa* (Rosaceae); NIU JIN TIAO; Common Oxmuscle. Used part: root cortex. TCM Effects: To clear heat and resolve toxin, suppress cough, stanch bleeding. TCM Indications: Common cold with cough, swelling pain in throat, nosebleed(epistaxis). Isolated compounds: 7276, 7277.
- T2158 *Dichroa febrifuga* (Saxifragaceae); CHANG SHAN; Antifebrile Dichroa. Used part: root. TCM Effects: To dispel phlegm and interrupt malaria. TCM Indications: Malaria, scrofula. Isolated compounds: 5435, 5436, 7747, 10171, 18420.
- T2159 *Dicksonia gigantean* (Dicksoniaceae). Isolated compounds: 16098.
- T2160 *Dicliptera riparia* (Acanthaceae); HE AN GOU GAN CAI; Riparian Dicliptera*. Isolated compounds: 5437, 5438, 5439.
- T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*] (Gleicheniaceae); MANG QI GU; Dichotoma Forked Fern. Used part: yang leaf with petiole. TCM Effects: To transform stasis and stanch bleeding, clear heat and disinhibit urine, resolve toxin and disperse swelling. TCM Indications: Flooding, wound swelling from knocks and falls, bleeding due to external injury, damp-heat strangury pain, leukorrhea, infant diarrhea, hemorrhoids and fistulas, red eyes with gall, burns and scalds, poisonous insect stings. Isolated compounds: 5763, 10106, 12082, 18411, 19088, 19805, 19983, 19987, 20369, 20372.
- T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*] (Papaveraceae); TU CHUANG HUA; Slenderstalk Dicranostigma. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, kill worms. TCM Indications: Pain in throat, toothache, scrofula, bald sores, scab and lichen, welling abscess and boil, common wart. Isolated compounds: 3502, 13716, 15664.
- T2163 *Dicranostigma* spp. (Papaveraceae). Isolated compounds: 3498.
- T2164 *Dictamnus albus* (Rutaceae); BAI SE BAI XIAN; Burning Bush. Isolated compounds: 11376, 15882, 17849, 20002.
- T2165 *Dictamnus angustifolius* (Rutaceae); XIA YE BAI XIAN; Narrowleaf

- Dittary*. Used part: root cortex. TCM Effects: See *Dictamnus dasycarpus*. TCM Indications: See *Dictamnus dasycarpus*. Isolated compounds: 5443, 5444, 5456, 11424, 11642.
- T2166 *Dictamnus caucasicus* (Rutaceae); GAO JIA SUO BAI XIAN; Caucasian Pittany*. Isolated compounds: 7703, 18881.
- T2167 *Dictamnus dasycarpus* (Rutaceae); BAI XIAN PI; Densfruit Pittany Root-bark. Equivalent plant: *Dictamnus angustifolius*. Used part: root cortex. TCM Effects: To clear heat and dry damp, dispel wind and relieve itch, resolve toxin. TCM Indications: Dermatitis, psoriasis, icterohepatitis, damp-heat sore and papules, profuse pus, yellow-water sore, damp ulceration on skin, itchy skin, damp-heat jaundice, damp-heat impediment. Isolated compounds: 3040, 4663, 5445, 5446, 5447, 5448, 5449, 5450, 5451, 5452, 5453, 5454, 5455, 7669, 7703, 7945, 11518, 12226, 15882, 15883, 17805, 17849, 20002, 21662.
- T2168 *Dictamnus* spp. (Rutaceae). Isolated compounds: 12847.
- T2169 *Dictyota dichotoma* (Dictyotaceae); WANG DI ZAO. Isolated compounds: 11579.
- T2170 *Dictyota linearis* (Dictyotaceae); XIAN ZHUANG WANG DI ZAO. Isolated compounds: 374, 505, 15391.
- T2171 *Dictyota pfaffii* (Dictyotaceae); BA XI ZONG ZAO; Brazilian Brown Alga *Dictyota pfaffii*. Isolated compounds: 163, 5303, 21724.
- T2172 *Didymocarpus pedicellata* (Gesneriaceae). Isolated compounds: 9305, 16697.
- T2173 *Digenea simplex* (Rhodomelaceae); HAI REN CAO; Simple *Digenea* Frond. Used part: frond. TCM Effects: To expel roundworm. TCM Indications: Ascariasis. Isolated compounds: 936, 2318, 3849.
- T2174 *Digitalis ferruginea* (Scrophulariaceae); XIU MAO DI HUANG; Rusty Foxglove. Isolated compounds: 5522, 9564.
- T2175 *Digitalis lanata* (Scrophulariaceae); MAO HUA MAO DI HUANG; Grecian Foxglove. Used part: leaf. TCM Effects: See *Digitalis purpurea*. TCM Indications: See *Digitalis purpurea*. Isolated compounds: 377, 5523, 5526, 5533, 7557, 8461, 9564, 10351, 12952, 16004.
- T2176 *Digitalis orientalis* (Scrophulariaceae); DONG FANG YANG DI HUANG; Oriental Foxglove*. Isolated compounds: 6016.
- T2177 *Digitalis purpurea* (Scrophulariaceae); MAO DI HUANG; Common Foxglove. Equivalent plant: *Digitalis lanata*. Used part: leaf. TCM Effects: To strengthen heart and disinhibit urine. TCM Indications: Cardiac failure, edema due to heart disease. Isolated compounds: 2887, 5524, 5526, 7557, 8461, 12436, 12952, 16004, 18216, 18217, 18219, 18220, 18221, 20406.
- T2178 *Digitalis schischkinii* (Scrophulariaceae); SI SHI MAO DI HUANG; Schischkin Foxglove*. Isolated compounds: 6016.
- T2179 *Digitalis* spp. (Scrophulariaceae). Isolated compounds: 18216, 18217.
- T2180 *Digitalis thapsii* (Scrophulariaceae); SA SHI MAO DI HUANG; Thaps Foxglove*. Isolated compounds: 3300, 3622.
- T2181 *Dillenia indica* (Dilleniaceae); WU YA GUO; Hondapara. Used part: root or bark. TCM Effects: To promote astriction, resolve toxin. TCM Indications: Dysentery, diarrhea. Isolated compounds: 2333, 5652, 8095, 10339.
- T2182 *Dillenia pentagyna* (Dilleniaceae); XIAO HUA WU YA GUO; Pentagynous *Dillenia*. Isolated compounds: 18728.
- T2183 *Dilophus ligulatus* (Dictyotaceae); DI ZHONG HAI ZONG HAI ZAO; Mediterranean Brown Alga *Dilophus ligulatus*. Isolated compounds: 16495.
- T2184 *Dimocarpus fumatus* (Sapindaceae); YAN SE LONG YAN; Smoke Longan*. Isolated compounds: 1592, 18718.
Dimocarpus longan = *Euphoria longan*
- T2185 *Dioclea grandiflora* (Fabaceae); DA HUA DI AO DOU. Isolated compounds: 7831.
- T2186 *Dionaea muscipula* (Droseraceae); BU YING CAO; Venus's Flytrap. Isolated compounds: 17568, 17569.
- T2187 *Dionaea rotundifolia* (Droseraceae); YUAN YE BU YING CAO; Round-leaf Flytrap*. Isolated compounds: 17569.
- T2188 *Dioscorea alata* (Dioscoreaceae); MAO SHU; Winged Yam. Used part: rhizome. TCM Effects: To fortify spleen and check diarrhea, nourish lung and enrich kidney, resolve toxin and close sores. TCM Indications: Spleen vacuity diarrhea, kidney vacuity and emission, vaginal discharge, frequent urination, vacuity taxation cough, diabetes mellitus, ulcerating sores, burns and scalds. Isolated compounds: 835, 836, 3594, 4451, 15528, 17876.
- T2189 *Dioscorea althaeoides* (Dioscoreaceae); SHU KUI YE SHU YU; Hollyhock-like Yam. Used part: rhizome. TCM Effects: To course wind and dispel damp, fortify spleen and disperse food, quicken blood and disperse swelling. TCM Indications: common cold with headache, wind-damp impediment pain, food accumulation distention and fullness, indigestion, knocks and falls. Isolated compounds: 5216, 6437, 6440, 7024, 8968, 20028.
- T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*] (Dioscoreaceae); SHAN YAO; Common Yam. Equivalent plant: *Dioscorea japonica*. Used part: rhizome. TCM Effects: To fortify spleen and nourish stomach, engender liquid and boost lung, supplement kidney and rough essence. TCM Indications: Reduced food intake due to spleen vacuity, incessant chronic diarrhea, cough and asthma due to lung vacuity, kidney vacuity and emission, vaginal discharge, frequent urination, vacuity heat and diabetes mellitus. Isolated compounds: 36, 618, 917, 2163, 2164, 2165, 2166, 2167, 3040, 3585, 5040, 5694, 6437, 6440, 6442, 6559, 9486, 14232, 14233, 14238, 14239, 17256, 19983, 20369, 21835.
- T2191 *Dioscorea bulbifera* (Dioscoreaceae); HUANG YAO ZI; Airpotato Yam. Used part: tuber. TCM Effects: To dissipate binds and disperse goiter, clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Goiter and tuberculosis, throat impediment, swelling toxin of welling abscess and sore, poisonous snake bite, carcinoma, blood ejection, spontaneous external bleeding, hemoptysis, pertussis, lung heat cough. Isolated compounds: 6434, 6435, 6436, 10774, 17876.
- T2192 *Dioscorea cayenensis* (Dioscoreaceae). Isolated compounds: 6437, 6447, 14699.
- T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*] (Dioscoreaceae); SHU LIANG; Shoulang Yam. Used part: tuber. TCM Effects: To quicken blood and stanch bleeding, rectify *qi* and relieve pain, clear heat and resolve toxin. TCM Indications: Coughing of blood, hemoptysis, blood ejection, spontaneous external bleeding, hematuria, hematochezia, flooding and spotting [= metrorrhagia and metrostaxis], menstrual disorder [= menoxenia], dysmenorrhea, menstrual block,

postpartum abdominal pain, distending pain in stomach duct and abdomen, sand distention and abdominal pain, heat toxin blood dysentery, water diarrhea, pain in joints, painful swelling from knocks and falls, sore and boil, zoster, bleeding due to external injury. Isolated compounds: 17869, 17876, 17888, 17893.

- T2194 *Dioscorea colletii* (Dioscoreaceae); CHA RUI SHU YU; Collett Yam. Used part: rhizome. TCM Effects: To dispel wind and disinherit damp, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, hypertonicity and numbness, *qi* stagnation stomachache, damp-heat jaundice, white turbidity, strangury with pain, leukorrhea, knocks and falls, damp sore with swelling toxin, wind papules, eczema, poisonous snake bite. Isolated compounds: 3922, 3923, 3924, 3925, 5197, 5216, 6440, 6445, 7013, 7024, 11554, 19392, 20028, 22878, 22881.
- T2195 *Dioscorea deltoidea* (Dioscoreaceae); SAN JIAO YE SHU YU; Deltoid Yam. Used part: rhizome. TCM Effects: To supplement stomach and spleen, boost lung and kidney. TCM Indications: Spleen vacuity diarrhea, lung vacuity enduring cough, kidney vacuity and emission, diabetes mellitus. Isolated compounds: 5040, 5041, 12488.
- T2196 *Dioscorea dumetorum* (Dioscoreaceae); JING JI SHU YU; Thorny Yam*. Isolated compounds: 2163.
- T2197 *Dioscorea futschauensis* (Dioscoreaceae); FU ZHOU SHU YU; Foochow Yam. Equivalent plant: *Dioscorea spongiosa*. Used part: rhizome. TCM Effects: To dispel wind-damp, disinherit damp and turbidity, disperse swelling toxin. TCM Indications: Wind-damp impediment pain, strangury with pain, white turbidity, leukorrhea, damp sore. Isolated compounds: 5216, 6437, 6440, 6443, 7024, 8968, 13990, 13991, 20028.
- T2198 *Dioscorea gracillima* (Dioscoreaceae); XIAN XI SHU YU; Thinnest Yam. Used part: rhizome. TCM Effects: See *Dioscorea hypoglauca*. TCM Indications: See *Dioscorea hypoglauca*. Isolated compounds: 5216, 6437, 6440, 8968, 17973, 17975, 22878.
- T2199 *Dioscorea hirsuta* (Dioscoreaceae); CU MAO SHU YU; Hirsute Yam*. Isolated compounds: 6439.
- T2200 *Dioscorea hispida* (Dioscoreaceae); BAI SHU LANG; Hispid Yam. Used part: tuber. TCM Effects: To clear heat and resolve toxin, disperse swelling. TCM Indications: Swelling toxin of welling abscess and flat abscess, syphilis, chancre, painful swelling from knocks and falls. Isolated compounds: 6439, 6440.
- T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*] (Dioscoreaceae); BI XIE; Hypoglaucous Collett Yam. Equivalent plant: *Dioscorea gracillima*, *Dioscorea tokoro*. Used part: rhizome. TCM Effects: To disinherit damp and turbidity, dispel wind-damp. TCM Indications: Unctuous strangury, white turbidity, vaginal discharge, sores, wind-damp impediment pain. Isolated compounds: 5197, 5216, 6437, 6440, 6441, 6445, 7024, 17977, 17980, 22878, 22879, 22881.
- T2202 *Dioscorea japonica* (Dioscoreaceae); RI BEN SHU YU; Japanese Yam. Used part: rhizome. TCM Effects: See *Dioscorea batatas*. TCM Indications: See *Dioscorea batatas*. Isolated compounds: 6437.
- T2203 *Dioscorea nipponica* (Dioscoreaceae); CHUAN LONG SHU YU; Nippon Yam. Equivalent plant: *Dioscorea nipponica* ssp. *rosthornii*. Used part: rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough and dispel phlegm. TCM Indications: Pain in joints, rheumatic endocarditis, sciatica, chronic bronchitis, chronic trachitis, wind-cold-damp impediment, indigestion, taxation detriment and sprain, malaria, swollen welling abscess. Isolated compounds: 1889, 5216, 6437, 6440, 6443, 6448, 7024, 17479, 20028, 20207.
- T2204 *Dioscorea nipponica* ssp. *rosthornii* (Dioscoreaceae); CHAI HUANG JIANG; Rosthorn Yam. Used part: rhizome. TCM Effects: See *Dioscorea nipponica*. TCM Indications: See *Dioscorea nipponica*. Isolated compounds: 5216, 6440.
- T2205 *Dioscorea panthaica* (Dioscoreaceae); HUANG SHAN YAO; Yellow Yam. Used part: rhizome. TCM Effects: To rectify *qi* and relieve pain, resolve toxin and disperse swelling. TCM Indications: *Qi* stagnation stomachache, vomiting diarrhea with abdominal pain, taxation detriment due to knocks and falls, toxin swelling of sores, poisonous snake bite. Isolated compounds: 2492, 2493, 5216, 6437, 6438, 6440, 17654, 18056.
- T2206 *Dioscorea parviflora* (Dioscoreaceae); XIAO HUA DUN YE SHU YU; Smallflower Yam. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Swelling toxin of welling abscess and boil, soft tissue sprain, bee sting, insect bites. Isolated compounds: 4794, 5040, 5041, 5216, 6440, 8968, 14287, 14653, 16682, 17975, 22878.
- T2207 *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*] (Dioscoreaceae); YUAN SHU YU; Guinea Yam. Isolated compounds: 2166, 8623, 9549, 11246, 14698.
- T2208 *Dioscorea septemloba* (Dioscoreaceae); MIAN BI XIE; Sevenlobed Yam. Used part: rhizome. TCM Effects: To disinherit damp and eliminate turbidity, dispel wind and free impediment. TCM Indications: Strangury with white turbidity, excessive leukorrhea, damp-heat sore toxin, impediment pain in lumbus and knees. Isolated compounds: 5216, 6440.
- T2209 *Dioscorea* sp. (Dioscoreaceae). Isolated compounds: 3209.
- T2210 *Dioscorea spongiosa* (Dioscoreaceae); HAI JIN BI XIE. Used part: rhizome. TCM Effects: See *Dioscorea futschauensis*. TCM Indications: See *Dioscorea futschauensis*. Isolated compounds: 4680, 6437, 6456, 6457, 6458, 6636, 8968, 10896, 11556, 14698, 15985, 17781, 17782, 17975, 19778, 20228, 20229, 20230, 20231, 20232, 20233, 20556, 23019.
- T2211 *Dioscorea tenuipes* (Dioscoreaceae); XI BING SHU YU; Thinstiped Yam. Used part: rhizome. TCM Effects: To dispel wind-damp, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, numbness in limbs, knocks and falls, taxation damage hypodynamia. Isolated compounds: 21426.
- T2212 *Dioscorea tokoro* (Dioscoreaceae); SHAN BI XIE; Mountain Yam. Used part: rhizome. TCM Effects: See *Dioscorea hypoglauca*. TCM Indications: See *Dioscorea hypoglauca*. Isolated compounds: 6437, 10961, 12251, 17973, 17975, 20207, 21426, 21427, 21428, 22878, 22924, 22925.
- T2213 *Dioscorea zingiberensis* (Dioscoreaceae); DUN YE SHU YU; Peltate Yam. Used part: rhizome. TCM Effects: To clear lung and relieve cough, disinherit damp and free strangury, free network vessels and relieve pain, resolve toxin and disperse swelling. TCM Indications:

- Lung heat cough, damp-heat strangury pain, wind-damp lumbago, swollen welling abscess and malign sore, sprain from knocks and falls, bee sting, insect bites. Isolated compounds: 3924, 5216, 6440, 6442, 6443, 7024, 8968, 17904, 17975, 17997, 20028, 23005.
- T2214 *Diospyros angustifolia* (Ebenaceae). Isolated compounds: 6461, 6462, 6463.
- T2215 *Diospyros cinnabarina* (Ebenaceae); ZHU HONG SHI; Cinnabar Persimmon*. Isolated compounds: 8095.
- T2216 *Diospyros ebenum* (Ebenaceae); WU MU XIE; Ceylon Persimmon Sawdust. Used part: sawdust. TCM Effects: To resolve toxin. TCM Indications: Cholera with vomiting. Isolated compounds: 1111, 2169, 2331, 15251.
- T2217 *Diospyros kaki* (Ebenaceae); SHI DI; Persimmon Persistent Calyx. Used part: calyx. TCM Effects: To downbear counterflow and precipitate qi. TCM Indications: Hiccough. Isolated compounds: 1935, 3208, 3210, 8095, 11642, 13212, 14790, 16050.
- T2218 *Diospyros kaki* (Ebenaceae); SHI GEN; Persimmon Root. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Flooding, blood dysentery, hemorrhoids. Isolated compounds: 14026, 15392.
- T2219 *Diospyros kaki* (Ebenaceae); SHI QI; Immature Persimmon Fruit Juice. Used part: unripe fruit juice. TCM Effects: To calm liver. TCM Indications: Hypertension. Isolated compounds: 351.
- T2220 *Diospyros kaki* (Ebenaceae); SHI YE; Persimmon Leaf. Used part: leaf. TCM Effects: To relieve cough and settle asthma, engender liquid and allay thirst, quicken blood and stanch bleeding. TCM Indications: Cough and asthma, lung qi distention, internal bleeding. Isolated compounds: 8012, 15184, 16050, 22270.
- T2221 *Diospyros kaki* (Ebenaceae); SHI ZI; Persimmon. Used part: fruit. TCM Effects: To clear heat, engender liquid, moisten lung, resolve toxin. TCM Indications: Cough, heat vexation and thirst, blood ejection, mouth sore, heat dysentery, hematochezia. Isolated compounds: 3774.
- T2222 *Diospyros lotus* (Ebenaceae); JUN QIAN ZI; Dateplum Persimmon. Used part: fruit. TCM Effects: To clear heat, allay thirst. TCM Indications: Heat vexation, diabetes mellitus. Isolated compounds: 2331, 2478, 11379, 13098, 13463, 14541.
- T2223 *Diospyros mafiensis* (Ebenaceae); BA BU YA XIN JI NEI YA SHI; Papua-New-Guinea Persimmon*. Isolated compounds: 2447.
- T2224 *Diospyros maritima* (Ebenaceae); HAI SHI; Maritime Persimmon*. Isolated compounds: 2402, 2403, 3541, 6451, 7189, 7404, 7448, 7449, 11790, 14348, 19542.
- T2225 *Diospyros mollis* (Ebenaceae); RUAN SHI; Soft Persimmon*. Isolated compounds: 6460.
- T2226 *Diospyros rhombifolia* (Ebenaceae); LAO YA SHI; Diamondleaf Persimmon. Isolated compounds: 1935, 3846, 11642, 12065, 12071, 12077, 12078, 12081, 13479, 15525, 18330, 18378, 18414, 19087.
- T2227 *Diospyros* sp. (Ebenaceae). Isolated compounds: 6459, 17568, 20711.
- T2228 *Diospyros sylvatica* (Ebenaceae). Isolated compounds: 6450, 14144, 14844.
- T2229 *Diospyros zombensis* (Ebenaceae). Isolated compounds: 18229.
Diphasiastrum alpinum = *Lycopodium alpinum*
- T2230 *Diphylleia cymosa* (Berberidaceae); SHAN XI WO ER QI; American Umbrellaleaf. Isolated compounds: 17341.
- T2231 *Diphylleia grayi* (Berberidaceae); SHAN HE YE; Japanese Umbrellaleaf. Used part: rhizome. TCM Effects: See *Diphylleia sinensis*. TCM Indications: See *Diphylleia sinensis*. Isolated compounds: 4962, 6490, 12020, 17337, 17338, 17347, 17592.
- T2232 *Diphylleia sinensis* (Berberidaceae); WO ER QI; Chinese Umbrellaleaf. Equivalent plant: *Diphylleia grayi*. Used part: rhizome. TCM Effects: To dispel wind-damp, clear heat and cool blood, quicken blood and relieve pain, drain precipitation. TCM Indications: Rheumatic arthritis, pain in lumbus and legs, steaming bone taxation fever, knocks and falls, menstrual disorder, painful bind in lesser-abdomen, swollen welling abscess. Isolated compounds: 1533, 4962, 5074, 5093, 6490, 11592, 12020, 17337, 17341, 17592, 17594.
- T2233 *Diploclisia glaucescens* (Menispermaceae); CANG BAI CHENG GOU FENG; Glauculent Diploclisia. Used part: lianoid stem. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp bone pain, swelling pain in throat, cholecystitis, dysentery, urinary tract infection, poisonous snake bite. Isolated compounds: 6016, 6679, 7788, 8652, 13411, 16672, 18162, 18713.
- T2234 *Dipsacus asperoides* (Dipsacaceae); CHUAN XU DUAN; Himalayan Teasel. Equivalent plant: *Dipsacus japonicus*. Used part: root. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, joint bones, check flooding and spotting. TCM Indications: Limp aching lumbus and knees, wind-damp impediment pain, flooding and spotting, profuse menstruation, fetal bleeding, knocks and falls. Isolated compounds: 323, 818, 1577, 1890, 1891, 4232, 4234, 4680, 5380, 7475, 8642, 8643, 8723, 9260, 9264, 12950, 13298, 14180, 14600, 17089, 18717, 19983, 20446, 20503, 21550, 21951, 22831, 22832, 22833, 22834.
- T2235 *Dipsacus japonicus* (Dipsacaceae); XU DUAN; Japanese Teasel. Used part: root. TCM Effects: See *Dipsacus asperoides*. TCM Indications: See *Dipsacus asperoides*. Isolated compounds: 11817.
- T2236 *Dipterus hispidus*. Isolated compounds: 15931.
- T2237 *Dipteryx odorata* (Fabaceae); XIANG DOU. Isolated compounds: 1388, 1415, 3602, 5835.
- T2238 *Discaria americana* (Rhamnaceae). Isolated compounds: 6505, 6506.
- T2239 *Distemonanthus benthamianus* (Fabaceae); NI RI LI YA LIANG RUI SU MU; Nigerian Satinwood. Isolated compounds: 3611, 16440.
- T2240 *Diuranthera inarticulata* (Liliaceae); NAN CHUAN LU SI CAO; S. Sichuan Egretgrass. Isolated compounds: 6526, 6527.
- T2241 *Dizygotheca kerchoveana*. Isolated compounds: 4161, 4162, 8638, 8639.
- T2242 *Dodonaea* spp. (Sapindaceae). Isolated compounds: 19312.
- T2243 *Dodonaea viscosa* (Sapindaceae); CHE SANG ZI YE; Clammy Hopseedbush Leaf. Used part: leaf. TCM Effects: To clear heat and percolate damp, disperse swelling and resolve toxin. TCM Indications: Dribbling urination, dribbling urinary block, shoulder swelling, clove boil, swelling pain in perineum, burns and scalds. Isolated compounds: 2887, 3551, 3829, 3831, 9249, 11648, 20369.
- T2244 *Doellingeria scaber* [Syn. *Aster scaber*] (Asteraceae); DONG FENG CAI; Scabrous Doellingeria. Used part: rhizome and whole herb. TCM Effects: To clear heat and resolve toxin, brighten eyes, disinhibit throat.

- TCM Indications: Wind-heat common cold, dizziness, red eyes with gall, red swollen in throat, acute nephritis, lung disease with blood ejection, knocks and falls, swollen welling abscess and clove sores, snake bite. Isolated compounds: 5354, 5355, 6918, 7950, 20237.
- T2245 *Dolichandrone stipulata* (Bignoniaceae); XI NAN MAO WEI SHU; Stipulate Dolichandrone. Isolated compounds: 16734.
- T2246 *Dolichos lablab* (Fabaceae); BIAN DOU; Hyacinth Dolichos Seed. Used part: white ripe seed. TCM Effects: To fortify spleen, transform damp. TCM Indications: Spleen vacuity with damp, reduced food intake and sloppy stool, excessive leukorrhea, summerheat-damp vomiting and diarrhea, vexation and thirst, oppression in chest. Isolated compounds: 3208, 17425, 20369, 22975.
- Dolichus angularis* = *Vigna angularis*
- T2247 *Dorstenia barteri* var. *subtriangularis* (Liliaceae). Isolated compounds: 2153, 2154, 2155, 6337.
- T2248 *Dorstenia elliptica* (Liliaceae); TUO YUAN DUO TAN CAO. Isolated compounds: 6304, 6389, 10812.
- T2249 *Dorstenia kameruniana* (Liliaceae). Isolated compounds: 17823.
- T2250 *Dorstenia mannii* (Liliaceae); MAN NI DUO TAN CAO. Isolated compounds: 6561, 6562, 6563, 6564, 6565, 6566, 6567, 6568, 6569, 6570, 6571, 6572.
- T2251 *Doryphora sassafras*. Isolated compounds: 6574.
- T2252 *Dracaena cinnabari* (Liliaceae); ZHU HONG LONG XUE SHU; Cinnabar Dracaena. Isolated compounds: 21852.
- T2253 *Dracaena cochinchinensis* (Liliaceae); JIAN YE LONG XUE SHU; Swordleaf Dracaena. Equivalent plant: *Daemonorops draco*. Used part: balsam. TCM Effects: To dissipate stasis and settle pain, stanch bleeding, close sores and engender flesh. TCM Indications: Knocks and falls, internal damage stasis pain, dysmenorrhea, postpartum blood stasis abdominal pain, incessant bleeding, scrofula, ulcer of lower limb, hemorrhoids. Isolated compounds: 2449, 3867, 5754, 7525, 8630, 9368, 9482, 10019, 10408, 11600, 13011, 13928, 14022, 14235, 18163.
- T2254 *Dracaena draco* (Liliaceae); LONG XUE SHU; Dragontree. Isolated compounds: 955, 5979, 5991, 6032, 6437, 6440, 6576, 6577, 6578, 6579, 10175, 11504, 13012, 14698, 19983, 19997.
- T2255 *Dracaena surculosa* (Liliaceae); DUO ZHI LONG XUE SHU. Isolated compounds: 7976, 7977, 8690, 8694.
- T2256 *Dracocephalum kotschyi* (Lamiaceae); YI LANG QING LAN; Iran Dragonhead*. Isolated compounds: 3761, 3762, 4088, 12842, 12845, 12846, 13729, 16050, 19983, 22270.
- T2257 *Dracocephalum moldavicum* (Lamiaceae); XIANG QING LAN; Dragonhead. Used part: whole herb. TCM Effects: To course wind and clear heat, disinhibit throat and relieve cough, cool liver and stanch bleeding. TCM Indications: Common cold with fever, headache, swelling pain in throat, cough and asthma, dysentery, jaundice, blood ejection, spontaneous external bleeding, wind papule itching. Isolated compounds: 3760, 15498, 21360.
- T2258 *Dracocephalum rupestre* (Lamiaceae); YANG QING LAN; Rupestrine Dragonhead. Used part: whole herb. TCM Effects: To course wind and clear heat, cool liver and resolve toxin. TCM Indications: Common cold with headache, swelling pain in throat, cough, dysentery, jaundice. Isolated compounds: 3674.
- T2259 *Dracula chimaera* (Orchidaceae). Isolated compounds: 4445, 4446, 16904.
- T2260 *Dracula cordobae* (Orchidaceae). Isolated compounds: 4445, 4446, 16904.
- T2261 *Drechslera siccans* (Orchidaceae). Isolated compounds: 6598.
- T2262 *Dregea sinensis* (Asclepiadaceae); KU SHENG; Chinese Dregea. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve cough and transform phlegm, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, cough of phlegm asthma, fracture due to knocks and falls, swollen sore of welling abscess and boil, galactostasis. Isolated compounds: 6599, 6600, 6601, 6602, 6603.
- T2263 *Dregea volubilis* (Asclepiadaceae); NAN SHAN TENG; Twisting Dregea. Used part: whole herb or tuber. TCM Effects: To dispel wind, eliminate damp, relieve pain, clear heat, harmonize stomach. TCM Indications: Common cold, painful joints due to rheumatalgia, lumbago, vomiting in pregnancy, cancer of esophagus, carcinoma of stomach, malaria. Isolated compounds: 22611, 22612, 22613.
- T2264 *Drimia robusta* (Liliaceae). Isolated compounds: 10693, 22250.
- T2265 *Drosera intermedia* (Droseraceae); ZHONG JIAN MAO GAO CAI; Intermediate Sundew*. Isolated compounds: 17569.
- T2266 *Drosera peltata* (Droseraceae); DUN ZHUANG MAO GAO CAI; Peltate Sundew*. Isolated compounds: 6605.
- T2267 *Drosera peltata* var. *lunata* (Droseraceae); MAO GAO CAI; Lunate Peltate Sundew. Used part: whole herb. TCM Effects: To dispel wind and relieve pain, quicken blood, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, taxation damage in lumbar muscle, stomachache, common cold, swelling pain in throat, red and white dysentery, malaria, child *gan* accumulation, eye screen, scrofula, eczema, scab sore. Isolated compounds: 6605, 9724, 9725, 10060, 17568.
- T2268 *Drosera rotundifolia* (Droseraceae); YUAN YE MAO GAO CAI; Roundleaf Sundew. Used part: whole herb. TCM Effects: To dispel phlegm, suppress cough, calm asthma, check dysentery. TCM Indications: Cough, asthma, pertussis, dysentery. Isolated compounds: 17568, 18930.
- T2269 *Drosera* sp. (Droseraceae). Isolated compounds: 9568, 14541.
- T2270 *Drosera whittakeri* (Droseraceae); HUI TE KE MAO GAO CAI; Whittaker Sundew*. Isolated compounds: 6605, 10060.
- T2271 *Dryanobulanops* spp. Isolated compounds: 15931.
- T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (Caryophyllaceae); ER RUI HE LIAN DOU. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Jaundice, edema, malaria, fright wind, leg *qi* due to wind-damp, toxin of sore welling abscess and boils, child *gan* accumulation, eye screen, outcrop. Isolated compounds: 5353, 6609, 9815, 9818, 11773, 14519, 21461.
- T2273 *Drynaria fortunei* (Drynariaceae); GU SUI BU; Fortune's Drynaria Rhizome. Equivalent plant: *Pseudodrynaria coronans*. Used part: rhizome. TCM Effects: To supplement kidney and strengthen bones, soothe sinews and relieve pain. TCM Indications: Kidney vacuity lumbago, tinnitus and deafness, tooth mobilizing, wrenching and contusion from knocks and falls, sinew and bone wound, alopecia

- areata, white patch wind. Isolated compounds: 3040, 9639, 15286, 19983, 20369.
- T2274 *Dryobalanops aromatica* (Dipterocarpaceae); BING PIAN; Borneol. Used part: resin. TCM Effects: To open orifices and free spirit, dissipate heat and relieve pain, eliminate screen and brighten eyes. TCM Indications: Angina pectoris, phlegm reversal, wind stroke, coma, convulsion, swelling pain in throat, mouth sore, swollen and painful eyes, sores, ulcer. Isolated compounds: 984, 1853, 2550, 2553, 3048, 3241, 3242, 6502, 6610, 6741, 7338, 7338, 9669, 11259, 11260, 16050.
- T2275 *Dryobalanops aromatica* (Dipterocarpaceae); LONG NAO GAO XIANG; Borneol Oil-Resin. Used part: resin. TCM Effects: To dispel wind and open orifices. TCM Indications: Deafness. Isolated compounds: 266, 12158, 12159, 14641, 15930, 15931, 16402.
- T2276 *Dryobalanops oblongifolia* (Dipterocarpaceae); JU YUAN YE LONG NAO XIANG; Oblong-leaf Borneol Oil-Resin*. Isolated compounds: 6503, 6504.
- T2277 *Dryopteris austriaca* (Dryopteridaceae); AO DI LI LIN MAO JUE; Broad Buckler-fern. Used part: rhizome. TCM Effects: To expel worms. TCM Indications: Taeniasis. Isolated compounds: 851, 1895, 1897, 15749, 22029, 22032, 22033.
- T2278 *Dryopteris caucasica* (Dryopteridaceae); GAO JIA SUO LIN MAO JUE; Caucasian Buckler-fern*. Isolated compounds: 7809.
- T2279 *Dryopteris championii* (Dryopteridaceae); MAO GUAN ZHONG; Champion Wood Fern. Used part: dried rhizome. TCM Effects: To clear heat and resolve toxin, calm asthma, stanch bleeding and close sores, expel worms. TCM Indications: Common cold, red eyes with gall, asthma, hematochezia, ulcerating sore toxin, scalds, ancylostomiasis. Isolated compounds: 849, 850, 851, 853, 854, 1895, 22032, 22033.
- T2280 *Dryopteris chrysocoma* (Dryopteridaceae); HUANG MAO LIN MAO JUE; Goldencoma Shield Fern. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and stanch bleeding. TCM Indications: Heat toxin macula, incised wound, postpartum blood qi distending pain, flooding and spotting with vaginal discharge, spontaneous external bleeding, dysentery. Isolated compounds: 7809.
- T2281 *Dryopteris crassirhizoma* (Dryopteridaceae); GUAN ZHONG; Male Fern Rhizome. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, kill worms. TCM Indications: Wind-heat common cold, warm heat macular eruption, blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, flooding and spotting, blood dysentery, vaginal discharge, ancylostomiasis, ascariasis, oxyuria disease. Isolated compounds: 632, 1895, 1896, 1897, 4214, 4215, 4216, 5244, 6611, 7758, 7796, 7797, 7809, 7810, 9635, 9641, 10167, 15286, 16648, 20499.
- T2282 *Dryopteris filix-mas* (Dryopteridaceae); MIAN MA; Male-fern. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, expel worms, disinhibit water and disperse edema. TCM Indications: Common cold with fever, encephalitis B, epidemic parotitis, measles papules, flooding and spotting, intestinal parasitic disease, edema, inhibited urination. Isolated compounds: 1897, 5402, 7798, 7809, 9385.
- T2283 *Dryopteris marginalis* (Dryopteridaceae); BIAN BAO LIN MAO JUE; Evergreen Wood Fern. Isolated compounds: 13559.
- T2284 *Dryopteris marginata* (Dryopteridaceae); BIAN YUAN LIN MAO JUE; Marginated Buckler-fern*. Isolated compounds: 13559.
- T2285 *Dryopteris pacifica* (Dryopteridaceae); TAI PING YANG LIN MAO JUE; Pacific Wood Fern. Isolated compounds: 13559.
- T2286 *Dryopteris sacrosancta* (Dryopteridaceae); RI BEN LIN MAO JUE; Brown-margin Wood Fern. Isolated compounds: 13559.
- T2287 *Dryopteris sublaeta* (Dryopteridaceae); QIAN LIE LIN MAO JUE; Fortunate Wood Fern. Isolated compounds: 6137, 21721.
- T2288 *Drypetes armoracia* (Euphorbiaceae); LA GEN HE GUO MU; Armoracia Drypetes*. Isolated compounds: 6613, 6614.
- T2289 *Drypetes molunduan* (Euphorbiaceae). Isolated compounds: 266, 2178, 6615, 6616, 7948.
- T2290 *Duchesnea indica* (Rosaceae); SHE MEI; Indian Mockstrawberry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: Febrile diseases, fright epilepsy, common cold, dysentery, jaundice, red eyes, mouth sore, sore pharynx, epidemic parotitis, swollen boil, poisonous snake bite, blood ejection, flooding and spotting, menstrual disorder, burns and scalds, painful swelling from knocks and falls. Isolated compounds: 6619, 6620, 17696, 18916.
- T2291 *Ducrosia anethifolia*. Isolated compounds: 4809, 16488.
- T2292 *Duguetia* spp. (Annonaceae). Isolated compounds: 15751.
- T2293 *Dumortiera hirsuta* (Marchantiaceae); MAO DI QIAN. Used part: thallus. TCM Effects: To clear heat, draw out toxin, engender flesh. TCM Indications: Heat toxin sore and welling abscess, enduring sores, wound, burns and scalds. Isolated compounds: 4490, 6634, 7085, 10540.
- T2294 *Dunnia sinensis* (Rubiaceae); XIU QIU QIAN CAO; Chinese Dunnia. Used part: root. TCM Effects: To clear heat and drain fire. Isolated compounds: 6639, 6640.
- T2295 *Duranta repens* (Verbenaceae); JIA LIAN QIAO; Creeping Skyflower. Used part: fruit. TCM Effects: To quicken blood and relieve pain, interrupt malaria. TCM Indications: Malaria, painful wound from knocks and falls. Isolated compounds: 5916, 5917, 6244, 6903, 6904, 10750, 18626, 18917, 19540.
- T2296 *Duranta repens* (Verbenaceae); JIA LIAN QIAO YE; Creeping Skyflower Leaf. Used part: leaf. TCM Effects: To dissipate stasis and resolve toxin. TCM Indications: Stasis swelling from knocks and falls, swollen welling abscess. Isolated compounds: 3834, 8616, 8617, 9230, 9922, 13126, 16755, 19582, 21685.
- T2297 *Dyosma aurantiocaulis* (Berberidaceae); DUO HUA BA JIAO LIAN; Manyflower Dyosma*. Isolated compounds: 17337, 17341.
- T2298 *Dyosma difformis* (Berberidaceae); XIAO BA JIAO LIAN; Dwarf Many-flowered May-apple. Used part: root and rhizome. TCM Effects: To transform phlegm and dissipate binds, dispel stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Swelling pain in throat, swollen welling abscess, clove sore, pneumonia, parotitis, poisonous snake bite, scrofula, knocks and falls. Isolated compounds: 5074, 5093, 17592.
- T2299 *Dyosma furfuracea* (Berberidaceae); BI LIN BA JIAO LIAN;

Furfuraceous Many-flowered May-apple*. Isolated compounds: 5074, 5093, 17592.

- T2300 *Dyosma guangxiensis* (Berberidaceae); GUANG XI BA JIAO LIAN; Guangxi Many-flowered May-apple*. Isolated compounds: 5074, 5093, 17592.
- T2301 *Dyosma majorensis* [Syn. *Podophyllum majorensis*; *Dyosma lichuanensis*] (Berberidaceae); BAI BA JIAO LIAN; White Dyosma*. Used part: root and rhizome. TCM Effects: To enrich *yin* and supplement kidney, clear lung and moisten dryness, resolve toxin and disperse swelling. TCM Indications: Taxation damage and sinew bone pain, impotence, stomachache, innominate toxin swelling, knife wound. Isolated compounds: 5074, 5093, 17337, 17341, 17592, 17594.
- T2302 *Dyosma pleiantha* [Syn. *Podophyllum pleianthum*] (Berberidaceae); LIU JIAO LIAN; Sixangular Dyosma. Equivalent plant: *Dyosma veitchii*, *Dyosma versipellis*. Used part: rhizome and root. TCM Effects: To transform phlegm and dissipate binds, dispel stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Cough, swelling pain in throat, scrofula, goiter and tuberculosis, swollen welling abscess, clove sore, poisonous snake bite, knocks and falls, pain in joints. Isolated compounds: 1372, 1935, 4962, 5070, 5074, 5093, 11592, 17337, 17341, 17592, 17594.
- T2303 *Dyosma subrosea* (Berberidaceae); CHONG MING BA JIAO LIAN; Chongming Many-flowered May-apple*. Isolated compounds: 5074, 5093, 17592.
- T2304 *Dyosma veitchii* (Berberidaceae); CHUAN BA JIAO LIAN; Veitch Dyosma. Used part: rhizome and root. TCM Effects: See *Dyosma pleiantha*. TCM Indications: See *Dyosma pleiantha*. Isolated compounds: 5074, 5093, 17592, 18317.
- T2305 *Dyosma versipellis* [Syn. *Podophyllum versipelle*] (Berberidaceae); GUI JIU; Common Dyosma. Used part: rhizome and root. TCM Effects: See *Dyosma pleiantha*. TCM Indications: See *Dyosma pleiantha*. Isolated compounds: 4962, 5074, 5093, 17592, 17597, 17598, 17599.
- T2306 *Dysoxylum acutangulum* (Meliaceae); RUI JIAO JIAN MU; Acuteangulus Pencilwood*. Isolated compounds: 9877.
- T2307 *Dysoxylum alliaceum* (Meliaceae); CONG JIAN MU; Alliaceous Pencilwood*. Isolated compounds: 9877.
- T2308 *Dysoxylum binectariferum* (Meliaceae); HONG GUO JIAN MU; Redfruit Pencilwood. Isolated compounds: 6656.
- T2309 *Dysoxylum hainanense* (Meliaceae); HAI NAN JIAN MU; Hainan Pencilwood. Isolated compounds: 235, 276, 6098, 6153, 6154, 6155, 7084, 7208, 7670, 21406.
- T2310 *Dysoxylum hongkongense* (Meliaceae); XIANG GANG JIAN MU; Hongkong Pencilwood. Used part: leaf. TCM Effects: To interrupt malaria. TCM Indications: Malaria. Isolated compounds: 7065, 9956, 9957, 21684.
- T2311 *Dysoxylum macranthum* (Meliaceae); DA HUA JIAN MU; Bigflower Pencilwood*. Isolated compounds: 6645, 6646, 6647, 6648, 6649, 6650, 6651, 6652, 6653, 6654, 6655.
- T2312 *Dysoxylum malabaricum* (Meliaceae); MA LA BA JIAN MU; Malaba Pencilwood*. Isolated compounds: 162, 7094.
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- T2313 *Ecballium elaterium* (Cucurbitaceae); PEN GUA; Squirting Cucumber. Isolated compounds: 4317, 4320, 4323, 4327.
- T2314 *Echinacea purpurea* (Asteraceae); ZI HUA SONG GUO JU; Purple Conedaisy. Isolated compounds: 6697.
- T2315 *Echinops giganteus* (Asteraceae); JU DA LAN CI TOU; Grand Globethistle*. Isolated compounds: 9995, 14165.
- T2316 *Echinops grijsii* (Asteraceae); HUA DONG LAN CI TOU; East China Globethistle. Used part: root. TCM Effects: See *Rhaponticum uniflorum*. TCM Indications: See *Rhaponticum uniflorum*. Isolated compounds: 2306, 4680, 5404, 7730, 9042, 9486, 9669, 11533, 12843, 12891, 13687, 13776, 14630, 18190, 19302, 19303, 19983.
- T2317 *Echinops ritro* (Asteraceae); XIN JIANG LAN CI TOU; Sinkiang Globethistle. Used part: root. TCM Effects: See *Rhaponticum uniflorum*. TCM Indications: See *Rhaponticum uniflorum*. Isolated compounds: 1110, 1111, 4126, 4680, 6691, 6692, 19983.
- T2318 *Echinosophora koreensis*. Isolated compounds: 6690.
- T2319 *Echium plantagineum* (Boraginaceae); CHE QIAN YE LAN JI; Purple Viper's-bugloss. Isolated compounds: 6684.
- T2320 *Echium vulgare* (Boraginaceae); LAN JI; Blue Thistle. Isolated compounds: 9316, 12925.
- T2321 *Ecklonia kurome* (Alariaceae); HEI KUN BU; Tangle Thallus. Used part: dried thallus. TCM Effects: See *Laminaria japonica*. TCM Indications: See *Laminaria japonica*. Isolated compounds: 2366, 2367, 5484, 6700, 17172, 17173, 21836.
- T2322 *Ecklonia stolonifera* (Alariaceae); ZONG ZAO; Brown Alga *Ecklonia stolonifera*. Isolated compounds: 5484, 6700, 6701, 17173. *Eclipta alba* = *Eclipta prostrata*
- T2323 *Eclipta prostrata* [Syn. *Eclipta alba*] (Asteraceae); MO HAN LIAN; Yerbadetajo. Used part: aerial parts. TCM Effects: To supplement liver and kidney, cool blood and stanch bleeding. TCM Indications: Tooth mobilizing, premature graying in beard and hair, dizziness and tinnitus, limp aching lumbus and knees, *yin* vacuity blood heat, hemoptysis, blood ejection, duodenal bleeding, nosebleed(epistaxis), hematuria, blood dysentery, flooding and spotting, bleeding due to external injury, eczema of skin, bleeding of skin, snake bite. Isolated compounds: 2775, 2776, 2784, 3558, 5101, 5102, 6702, 6703, 6704, 6705, 6706, 6707, 9369, 11374, 15527, 21018, 21019, 21020.
- T2324 *Egletes viscosa* NIAN XING AI LEI JU. Isolated compounds: 20978.
- T2325 *Eichhornia crassipes* (Pontederiaceae); SHUI HU LU; Common Waterhyacinth. Used part: whole herb or root. TCM Effects: To resolve toxin and eliminate damp, dispel wind-heat. TCM Indications: Wind-heat common cold, edema, heat strangury, urethral stone, wind papules, damp sore, swollen boil. Isolated compounds: 5020, 9621, 17127.
- T2326 *Elaeagnus angustifolia* (Elaeagnaceae); SHA ZAO; Russianolive. Used part: fruit. TCM Effects: To nourish liver and boost kidney, fortify spleen and regulate menstruation. TCM Indications: Liver vacuity dim vision, kidney vacuity lumbago, spleen vacuity diarrhea, indigestion, vaginal discharge, menstrual disorder. Isolated compounds: 2843, 2977, 3308, 6853, 9234, 9235, 9236, 15363, 16050.
- T2327 *Elaeagnus angustifolia* (Elaeagnaceae); SHA ZAO SHU PI;

- Russianolive Bark. Used part: bark. TCM Effects: To clear heat and relieve cough, disinhibit damp and relieve pain, resolve toxin, stanch bleeding. TCM Indications: Chronic trachitis, stomachache, enteritis, acute nephritis, chronic nephritis, icterohepatitis, vaginal discharge, burns and scalds, bleeding due to external injury. Isolated compounds: 5625, 6736, 14747, 14751, 21071.
- T2328 *Elaeis guineensis* (Arecaceae); YOU ZONG; Oilpalm. Used part: root. TCM Effects: To dispel stasis and disperse swelling. TCM Indications: Swelling pain due to stasis accumulation. Isolated compounds: 3208, 12569, 16561.
- T2329 *Elaeocarpus mastersii* (Elaeocarpaceae); MA SI TE SI DU YING; Masters Elaecarpus. Isolated compounds: 6346, 14342.
- T2330 *Elaeocarpus parvifolius* (Elaeocarpaceae); XIAO YE DU YING; Small-leaf Elaecarpus*. Isolated compounds: 14340, 14341, 14342, 14346.
- T2331 *Elephantopus carolinianus* (Asteraceae); KA LUO LAI NA DI DAN CAO; Carolina Elephantfoot*. Isolated compounds: 5168.
- T2332 *Elephantopus elatus* (Asteraceae); GAO DI DAN CAO; High Elephantfoot*. Isolated compounds: 6750, 6751.
- T2333 *Elephantopus mollis* (Asteraceae); ROU MAO DI DAN CAO; Hawaiian Elephantfoot. Isolated compounds: 14896, 14897, 17042.
- T2334 *Elephantopus scaber* (Asteraceae); KU DI DAN; Scabrous Elephantfoot. Used part: whole herb. TCM Effects: To clear heat, cool blood, resolve toxin, disinhibit damp. TCM Indications: Common cold, pertussis, tonsillitis, pharyngolaryngitis, conjunctivitis, jaundice, nephritis with edema, menstrual disorder, vaginal discharge, sore and boil, eczema, snake or insect bites. Isolated compounds: 5168, 6918, 13098, 13100, 20369.
- T2335 *Elephantus nudatus* (Asteraceae); LUO DI DAN CAO; Node Elephantfoot*. Isolated compounds: 15857.
- T2336 *Elephas maximus* (Elephantidae); XIANG DAN; Elephant Gall. Used part: gall. TCM Effects: To clear liver and brighten eyes, resolve toxin and disperse swelling. TCM Indications: Eye screen, gan accumulation, bad breath, swelling of sores. Isolated compounds: 350.
- T2337 *Elephas maximus* (Elephantidae); XIANG GU; Elephant Bone. Used part: bone. TCM Effects: To resolve toxin and engender flesh. TCM Indications: Stomach heat vomiting, diarrhea with pus blood, ulcer of lower limb. Isolated compounds: 10660.
- T2338 *Elephas maximus* (Elephantidae); XIANG ROU; Elephant Meat. Used part: meat. TCM Indications: Bald sores. Isolated compounds: 4221.
- T2339 *Eleutherine americana* (Iridaceae); XIAO HONG SUAN; American Eleutherine. Isolated compounds: 6752, 6753.
Eleutherococcus giraldii = *Acanthopanax giraldii*
Eleutherococcus senticosus = *Acanthopanax senticosus*
- T2340 *Elsholtzia bodinieri* (Lamiaceae); FENG WEI CHA. Used part: whole herb. TCM Effects: To dissipate exopathogen, rectify *qi* and harmonize stomach. TCM Indications: Common cold, red swollen in throat, red eyes with gall, stomatitis, toothache, hepatitis, indigestion. Isolated compounds: 2526.
- T2341 *Elsholtzia ciliata* (Lamiaceae); BAN BIAN SU; Common Elsholtzia. Used part: whole herb. TCM Effects: To effuse sweat and resolve summerheat, transform damp and disinhibit urine. TCM Indications: Summer common cold, summerheat stroke, diarrhea, inhibited urination, edema, eczema, welling abscess. Isolated compounds: 6178, 6763, 8312, 10025, 11276, 11754, 14794, 15238, 15239, 15240, 21391.
- T2342 *Elsholtzia nipponica* (Lamiaceae); RI BEN XIANG RU; Japanese Elsholtzia*. Isolated compounds: 17089.
- T2343 *Elsholtzia splendens* (Lamiaceae); XIANG RU; Haichow Elsholtzia. Used part: aerial parts. TCM Effects: To effuse sweat and eliminate summerheat, move water and dissipate damp, warm stomach and regulate center. TCM Indications: Fever, aversion of cold, headache, absence of sweating, abdominal pain, vomiting and diarrhea, edema and inhibited urination, beriberi. Isolated compounds: 6764, 21391.
- T2344 *Embelia barbeyana* (Myrsinaceae); BA BEI SUAN TENG ZI. Isolated compounds: 6767.
- T2345 *Embelia kilimandscharica* (Myrsinaceae). Isolated compounds: 6767.
- T2346 *Embelia oblongifolia* (Myrsinaceae); MA GUI HUA; Manyerve Embelia. Used part: fruit. TCM Effects: To expel worms, check diarrhea. TCM Indications: Taeniasis, diarrhea. Isolated compounds: 6767.
- T2347 *Embelia parviflora* (Myrsinaceae); XIAO HUA SUAN TENG ZI; Smallflower Embelia. Used part: root or vine. TCM Effects: To supplement blood, quicken blood, strengthen lumbus and knees. TCM Indications: Blood vacuity, menstrual disorder, amenorrhea, postpartum vacuity weakness, aching in lumbus and legs, fracture due to knocks and falls. Isolated compounds: 13687, 20168.
- T2348 *Embelia ribes* (Myrsinaceae); XIAN SUAN QIANG; Whiteflower Embelia. Used part: root. TCM Effects: To quicken blood and regulate menstruation, clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Amenorrhea, dysentery, diarrhea, child head sore, itchy skin, knocks and falls, bleeding due to external injury, poisonous snake bite. Isolated compounds: 6767, 22478.
- T2349 *Embelia robusta* (Myrsinaceae); CU ZHUANG SUAN TENG ZI; Robust Embelia*. Isolated compounds: 6767.
- T2350 *Embelia schimperi* (Myrsinaceae); KEN NI YA XIAN SUAN QIANG; Kenya Embelia*. Isolated compounds: 6768, 19466.
- T2351 *Embelia tsjersium-cottam* (Myrsinaceae). Isolated compounds: 6767.
- T2352 *Emericella purpurea* (Trichocomaceae); ZI LUO KE BAO. Isolated compounds: 6773, 6774, 6775.
- T2353 *Emericella unguis* (Trichocomaceae). Isolated compounds: 9084.
- T2354 *Emericella varicolor* (Trichocomaceae); BIAN SE HE KE BAO. Isolated compounds: 7660, 11410.
- T2355 *Emerita analoga*. Isolated compounds: 19431.
- T2356 *Emilia coccinea* (Asteraceae); FEI YI DIAN HONG; Red Tasselflower*. Isolated compounds: 11807.
- T2357 *Emilia sonchifolia* (Asteraceae); YI DIAN HONG; Sowthistle Tasselflower. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Infection of upper respiratory tract, oral ulcer, pneumonia, mastitis, enteritis, bacillary dysentery, urinary tract infection, swollen welling abscess, sore and boil, eczema, knocks and falls. Isolated compounds: 11807, 19731, 19901.
- T2358 *Enantia polycarpa* DUO GUO YI NAN MU. Isolated compounds: 4100, 4101.
- T2359 *Endarachne binghamiae* (Scytosiphonaceae); E CHANG CAI;

- Goose-bowel Vegetable*. Used part: frond. TCM Effects: To clear heat and resolve phlegm, soften hardness and dissipate binds. TCM Indications: Thyroid enlargement, lymphnroditis, tuberculosis. Isolated compounds: 14229.
- T2360 *Engelhardia roxburghiana* (Juglandaceae); HUANG QI II; R oxburgh Engelhardtia Root. Isolated compounds: 6801, 6836, 10186, 10460, 10747, 13873, 13978, 13979, 15137, 16050, 18588, 19983.
- T2361 *Enhydra fluctuans* (Asteraceae); ZHAO JU; Common Enhydra. Isolated compounds: 6802.
- T2362 *Enkianthus nudipes* (Ericaceae). Isolated compounds: 15864.
- T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*] (Fabaceae); KE TENG ZI; Climbing Entada Seed. Used part: seed. TCM Effects: To move *qi* and relieve pain, disinherit damp and disperse swelling. TCM Indications: Hematochezia, blood dysentery, jaundice, prolapse of rectum, hemorrhoids, throat impediment. Isolated compounds: 6811, 17050.
- T2364 *Entandrophragma cylindricum*. Isolated compounds: 19315.
- T2365 *Enteromorpha clathrata* (Ulvaaceae); TIAO HU TAI. Used part: frond. TCM Effects: To soften hardness and dissipate binds, transform phlegm and disperse accumulation, resolve toxin and disperse swelling. TCM Indications: Goiter and carcinoma of neck, scrofula, swollen welling abscess, sore and boil, food accumulation, worm accumulation, distention and oppression in stomach duct and abdomen, nosebleed(epistaxis). Isolated compounds: 9384.
- T2366 *Ephedra distachya* (Ephedraceae); SHUANG SUI MA HUANG; Jointfir Ephedra. Isolated compounds: 6815, 6816, 14395, 15745, 15789, 18024.
- T2367 *Ephedra equisetina* (Ephedraceae); MU ZEI MA HUANG; Mongolian Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 3633, 3695, 3766, 4135, 5763, 6815, 6816, 9818, 13419, 14395, 14629, 14701, 15745, 15789, 16285, 18024.
- T2368 *Ephedra Gerardiana* (Ephedraceae); SHAN LING MA HUANG; Gerard Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 6816, 14395, 14701, 15745, 15789, 18024.
- T2369 *Ephedra intermedia* (Ephedraceae); ZHONG MA HUANG; Intermediate Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 6815, 6816, 14395, 14701, 15660, 15665, 15745, 15789, 18024.
- T2370 *Ephedra intermedia* var. *tibetica* (Ephedraceae); XI ZANG ZHONG MA HUANG; Tibet Intermediate Ephedra. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2371 *Ephedra lepidosperma* (Ephedraceae); BAN ZI MA HUANG; Scalysed Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2372 *Ephedra likiangensis* (Ephedraceae); LI JIANG MA HUANG; Likiang Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2373 *Ephedra minuta* (Ephedraceae); AI MA HUANG; Small Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6816.
- T2374 *Ephedra minuta* var. *dioeca* (Ephedraceae); YI ZHU AI MA HUANG; Dioecious Small Ephedra. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2375 *Ephedra monosperma* (Ephedraceae); DAN ZI MA HUANG; Oneseed Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 15745, 15789, 18024.
- T2376 *Ephedra procera* (Ephedraceae); SHU ZHUANG MA HUANG; Tall Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2377 *Ephedra przewalskii* (Ephedraceae); MO GUO MA HUANG; Przewalsk Ephedra. Isolated compounds: 6815, 14395, 15745, 15789, 18024.
- T2378 *Ephedra regeliana* (Ephedraceae); XI ZI MA HUANG; Regel Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2379 *Ephedra saxatilis* (Ephedraceae); ZANG MA HUANG; Cliff Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2380 *Ephedra sinica* (Ephedraceae); MA HUANG; Chinese Ephedra. Equivalent plant: *Ephedra equisetina*, *Ephedra intermedia*, *Ephedra minuta*, *Ephedra monosperma*, *Ephedra likiangensis*, *Ephedra saxatilis*, *Ephedra Gerardiana*. Used part: herbaceous twigs. TCM Effects: To effuse sweat and resolve exterior, diffuse lung and calm asthma, disinherit water and disperse edema. TCM Indications: Wind-cold exterior repletion syndrome, headache without sweating, headache and generalized pain, cough, fever, fever and aversion to wind, absence of sweating, congesting lung, non-diffusion of lung *qi*, cough and asthma, bronchial asthma, wind water edema, nasal congestion, allergic rhinitis, inhibited urination, wind-damp impediment pain, muscle numbness, wind papule itching, *yin* flat abscess and phlegm node. Isolated compounds: 1476, 1498, 3633, 6396, 6815, 6816, 8744, 9421, 12020, 12082, 12717, 13543, 13947, 14395, 14701, 15146, 15745, 15789, 17083, 18024, 20993, 20994, 20995, 21541, 21950, 21973.
- T2381 *Ephedra sinica* (Ephedraceae); MA HUANG GEN; Chinese Ephedra Root. Used part: root. TCM Effects: To check sweating. TCM Indications: Spontaneous sweating and night sweating. Isolated compounds: 6822, 13400, 13401, 13402.
- T2382 *Ephedra* sp. (Ephedraceae). Isolated compounds: 6813, 6814, 15789.
- T2383 *Ephedra tweediana* (Ephedraceae). Isolated compounds: 6815, 15745, 15789, 18024.
- T2384 *Epicauta gorhami* (Meloidae); GE SHANG TING CHANG; Bean Blister Beetle. Used part: body. TCM Effects: To expel stasis and break accumulation. TCM Indications: Amenorrhea, concretion and conglomeration, accumulation-gathering, fistula. Isolated compounds: 3094.
- T2385 *Epicoccum* sp. Isolated compounds: 258, 8012, 10376, 10377, 10495, 21808.
- T2386 *Epigynum auritum* (Apocynaceae); SI MAO TENG; Longeared Epigynum. Used part: root cortex and bark. TCM Effects: To strengthen sinews and lumbus. Isolated compounds: 6925.
- T2387 *Epilobium hirsutum* (Onagraceae); SHUI JIE GU DAN; Hairy Willowweed. Used part: whole herb. TCM Effects: To clear heat and

- resolve toxin, disinhibit damp and check diarrhea, disperse food and rectify *qi*, quicken blood and joint bones. TCM Indications: Damp-heat dysentery, food accumulation, distending pain in stomach duct, toothache, menstrual disorder, amenorrhea, vaginal discharge, fracture due to knocks and falls, swelling of sores, scalds, scab sore. Isolated compounds: 8095, 13937.
- T2388 *Epilobium* sp. (Onagraceae). Isolated compounds: 16836.
- T2389 *Epimedium acuminatum* (Berberidaceae); CU MAO YIN YANG HUO; Acuminatum Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 593, 1273, 1275, 2139, 5257, 6492, 6493, 6961, 10963, 21589.
- T2390 *Epimedium brevicornum* (Berberidaceae); YIN YANG HUO; Shorthorned Epimedium. Equivalent plant: *Epimedium sagittatum*, *Epimedium wushanense*, *Epimedium koreanum*, *Epimedium pubescens*, *Epimedium acuminatum*, *Epimedium davidii*, *Epimedium sutchuenense*. Used part: aerial parts. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, dispel wind-damp. TCM Indications: Angina pectoris, chronic bronchitis, neurasthenia, climacteric hypertension, poliomyelitis, impotence and emission, limp wilting sinew and bone, wind-damp impediment pain, hypertonicity and numbness. Isolated compounds: 1275, 2138, 2139, 2377, 2601, 5257, 6492, 6959, 6960, 6961, 6962, 6963, 6964, 9363, 9486, 10887, 10964, 12018, 12893, 13374, 15410, 20280, 22740, 22908, 22909, 22910, 22911, 22912.
- T2391 *Epimedium brevicornum* (Berberidaceae); YIN YANG HUO GEN; Shorthorned Epimedium Root. Used part: root. TCM Effects: To supplement kidney and invigorate *yang*, dispel wind and eliminate damp. TCM Indications: Vacuity strangury, white turbidity, dizziness (for men), vaginal discharge, menstrual disorder, asthma (for women). Isolated compounds: 5257.
- T2392 *Epimedium davidii* (Berberidaceae); CHUAN DIAN YIN YANG HUO; David Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 2139, 2140, 2140, 2141, 2141, 2142, 2143, 2144, 6961.
- T2393 *Epimedium ecalcaratum* (Berberidaceae); WU JU YIN YANG HUO; Spurless Barrenwort*. Isolated compounds: 1275.
- T2394 *Epimedium elongatum* (Berberidaceae); CHUAN XI YIN YANG HUO; Elongate Barrenwort. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275.
- T2395 *Epimedium fargesii* (Berberidaceae); CHUAN E YIN YANG HUO; Farges Epimedium. Isolated compounds: 1275, 5257, 6492, 6960, 6961.
- T2396 *Epimedium grandiflorum* (Berberidaceae); DA HUA YIN YANG HUO; Large-flowered Epimedium. Isolated compounds: 1275, 10944, 10955.
- T2397 *Epimedium grandiflorum* var. *thumbergianum* (Berberidaceae); DA HUA YIN YANG HUO BIAN ZHONG; Large-flowered Epimedium Variety. Isolated compounds: 2276.
- T2398 *Epimedium koreanum* (Berberidaceae); CHAO XIAN YIN YANG HUO; Korean Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 2139, 3480, 3551, 6776, 6959, 6960, 6961, 8401, 10602, 10887, 10942, 10964, 11439, 12272, 12273, 12274, 12908, 18741, 18742, 21589, 22239.
- T2399 *Epimedium leptorrhizum* (Berberidaceae); QIAN LING YIN YANG HUO; Thin-rhizome Epimedium. Isolated compounds: 6961.
- T2400 *Epimedium myrianthum* (Berberidaceae); TIAN PING SHAN YIN YANG HUO; Tianpingshan Epimedium*. Isolated compounds: 6961.
- T2401 *Epimedium pubescens* (Berberidaceae); ROU MAO YIN YANG HUO; Pubescence Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275, 2138, 2139, 2141, 6960, 6961, 10964, 18961.
- T2402 *Epimedium sagittatum* (Berberidaceae); JIAN YE YIN YANG HUO; Sagittate Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275, 2138, 2139, 3435, 6960, 6961, 10940, 10941, 10945, 10946, 10947, 10950, 10951, 10952, 10954, 10955, 10956, 10964, 12891, 16088, 17085, 18317, 19125, 19126, 19127.
- T2403 *Epimedium* spp. (Berberidaceae). Isolated compounds: 6960.
- T2404 *Epimedium sutchuenense* (Berberidaceae); SI CHUAN YIN YANG HUO; Szechuan Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275.
- T2405 *Epimedium wanshanense* (Berberidaceae); WAN SHAN YIN YANG HUO; Wanshan Epimedium. Isolated compounds: 1273, 1274, 6492, 6493, 10963.
- T2406 *Epimedium wushanense* (Berberidaceae); WU SHAN YIN YANG HUO; Wushan Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 6960, 6961, 10964, 17835, 18961, 22740.
- Epimeredi indica* = *Anisomeles indica*
- T2407 *Equisetum arvense* (Equisetaceae); WEN JING; Bottle-brush. Used part: aerial parts. TCM Effects: To stanch bleeding, disinhibit urine, brighten eyes. TCM Indications: Spontaneous external bleeding, blood ejection, hemoptysis, hematochezia, flooding and spotting, bleeding due to external injury, red eyes and eye screen. Isolated compounds: 7222, 8120, 8966, 11238, 11642, 12043, 14081, 15527, 15933, 16098, 17974, 21538, 21539.
- T2408 *Equisetum hiemale* (Equisetaceae); MU ZEI; Common Scouring Rush. Used part: aerial parts. TCM Effects: To dissipate wind-heat, eliminate screen. TCM Indications: Wind-heat red eye, tearing in wind, eye screen. Isolated compounds: 2316, 2887, 6408, 7768, 8962, 8966, 9422, 9815, 9817, 9818, 11238, 11642, 12020, 12042, 12043, 12087, 13884, 13885, 14471, 14802, 16574, 18317, 20444, 22336.
- T2409 *Equisetum palustre* (Equisetaceae); GU JIE CAO; Marsh Horsetail. Used part: whole herb. TCM Effects: To soothe wind and brighten eyes, quicken blood and relieve pain. TCM Indications: Red eyes and eye screen, tearing in wind, wind-damp pain, knocks and falls. Isolated compounds: 552, 553, 12043, 12083, 15527, 16573, 18391.
- T2410 *Equisetum pratense* (Equisetaceae); CAO WEN JING; Meadow Horsetail. Used part: whole herb. TCM Effects: To quicken blood,

- disinhibit urine, expel worms. TCM Indications: Atherosclerosis, pain of hot urine and inhibited urination, intestinal parasitic disease. Isolated compounds: 12043, 18391.
- T2411 *Equisetum* sp. (Equisetaceae). Isolated compounds: 18815.
- T2412 *Equisetum sylvaticum* (Equisetaceae); LIN WEN JING; Forest Horsetail. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and disinhibit urine, dispel wind and relieve pain. TCM Indications: Hemoptysis, hematuria, strangury, pain wind, wind-damp pain, epilepsy. Isolated compounds: 11642, 12043, 18392.
- T2413 *Eremocitrus* sp. Isolated compounds: 17705.
- T2414 *Eremurus himalaicus* (Liliaceae); XI MA DU WEI CAO; Himalayan Desertcandle. Isolated compounds: 9646.
- T2415 *Erica arborea* (Ericaceae); OU SHI NAN; Tree Heath. Isolated compounds: 16169.
- T2416 *Erica australis* (Ericaceae); NAN FANG OU SHI NAN; Spanish Heath. Isolated compounds: 5763, 19912.
- T2417 *Erica cinerea* (Ericaceae); HUI SE OU SHI NAN; Bell Heather. Isolated compounds: 11428.
- T2418 *Erica umbellata* (Ericaceae); SAN XING OU SHI NAN; Umbels Heath. Isolated compounds: 16169.
- T2419 *Erica vagans* (Ericaceae); YING GUO OU SHI NAN; Cornish Heath. Isolated compounds: 663.
- T2420 *Ericerus pela* (Coccidae); CHONG BAI LA; Cera Chinensis Wax. Used part: insect wax. TCM Effects: To stanch bleeding, engender flesh, settle pain. TCM Indications: Incised wound and bleeding, hematuria, hematochezia, enduring sores. Isolated compounds: 3434, 3436, 3437, 3438, 9372, 9373, 13708, 15937.
- T2421 *Erigeron annuus* (Asteraceae); YI NIAN PENG; Annual Fleabane. Used part: root and whole herb. TCM Effects: To disperse food and check diarrhea, clear heat and resolve toxin, interrupt malaria. TCM Indications: Indigestion, gastroenteritis, malaria, poisonous snake bite. Isolated compounds: 1493, 1494, 1762, 2802, 5888, 5889, 5892, 7096, 7256, 7504, 7504, 7505, 7505, 7506, 8335, 8692, 9871, 10109, 10246, 13925, 13974, 14048, 16155, 16156, 18271, 21107.
- T2422 *Erigeron breviscapus* (Asteraceae); DENG ZHAN XI XIN; Shortscape Fleabane. Used part: whole herb. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, quicken network vessels and relieve pain, disperse accumulation. TCM Indications: Common cold with headache and nasal congestion, wind-damp impediment pain, paralysis, acute gastritis, child *gan* accumulation, knocks and falls. Isolated compounds: 1493, 2606, 2919, 3318, 10802, 14292, 18254, 19587, 21735.
- T2423 *Erigeron multiradiatus* (Asteraceae); DUO SHE FEI PENG; Multiradiate. Isolated compounds: 1495, 2900.
- T2424 *Erigeron philadelphicus* (Asteraceae); FEI CHENG FEI PENG; Philadelphia Fleabane. Isolated compounds: 7097, 7255, 7256, 7257, 7258, 7504, 17142.
- T2425 *Erigeron* sp. (Asteraceae). Isolated compounds: 6193.
- T2426 *Erigeron sumatrensis* (Asteraceae); SU MEN BAI JIU CAO. Used part: whole herb. TCM Effects: To transform phlegm, free network vessels, stanch bleeding. TCM Indications: Cough and abundant phlegm, wind-damp impediment pain, uterine bleeding. Isolated compounds: 1762, 7096, 7256, 7504, 8335, 10246, 13925, 13974, 16155, 16156.
- T2427 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus* (Erinaceidae); WEI NAO; Hedgehog Brain. Used part: brain. TCM Indications: Wolf-fistula. Isolated compounds: 653, 9069, 15708.
- T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus* (Erinaceidae); WEI XIN GAN; Hedgehog Heart and Liver. Used part: heart and liver. TCM Effects: To resolve toxin and cure sores. TCM Indications: Ant-fistula, bee-fistula, scrofula, malign sore. Isolated compounds: 653, 15708.
- T2429 *Erinus alpinus*. Isolated compounds: 7266.
- T2430 *Eriobotrya deflexa* (Rosaceae); TAI WAN PI PA; Taiwan Loquat. Isolated compounds: 1734, 6070, 7657, 10580, 16410, 18695, 18696, 21824, 21831.
- T2431 *Eriobotrya japonica* (Rosaceae); PI PA; Loquat. Used part: fruit. TCM Effects: To moisten lung and precipitate *qi*, allay thirst. TCM Indications: Lung heat cough asthma, vomiting of sour matter, vexation and thirst. Isolated compounds: 1102, 3048, 7729, 7734, 15498, 15500, 17264.
- T2432 *Eriobotrya japonica* (Rosaceae); PI PA HE; Loquat Seed. Used part: seed. TCM Effects: To relieve cough and transform phlegm, soothe liver and move *qi*. TCM Indications: Cough with profuse phlegm, mounting *qi*, edema, scrofula. Isolated compounds: 1102, 7657, 9717, 10518, 10519, 14390.
- T2433 *Eriobotrya japonica* (Rosaceae); PI PA YE; Loquat Leaf. Used part: leaf. TCM Effects: To clear lung and relieve cough, downbear counterflow and check vomiting. TCM Indications: Lung heat cough, *qi* counterflow with rapid asthma, stomach heat vomiting, heat vexation and thirst. Isolated compounds: 1102, 2849, 2857, 3771, 6178, 6632, 7287, 7288, 7729, 7730, 7734, 7772, 7785, 9522, 9524, 12039, 12040, 12853, 14579, 15501, 15502, 15503, 15504, 17376, 17377, 18918, 19983, 22270, 22270, 22616, 22617.
- T2434 *Eriocaulon buergerianum* (Eriocaulaceae); GU JING CAO; Pipewart. Used part: flower head with peduncle. TCM Effects: To dispel wind and dissipate heat, brighten eyes and eliminate eye screens. TCM Indications: Distended red eyes and screen, delacrimation and photophobia, night blindness, headache, deep-source nasal congestion, throat impediment, toothache, wind papule itching. Isolated compounds: 9565, 14362.
- T2435 *Eriocher sinensis* (Grapsidae); XIE KE; Mitten Crab Chelae. Used part: shell. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Blood amassment yellowing, blood stasis, flooding and spotting, swelling toxin of welling abscess and sore, galloping *gan* of teeth and gum, poisonous insect stings. Isolated compounds: 402.
- T2436 *Eriosema kraussianum* (Fabaceae); NAN FEI JI TOU SHU; South-African Eriosema*. Isolated compounds: 12291, 12292, 12293, 12294, 12295.
- T2437 *Eriosorus flexuosus*. Isolated compounds: 18154.
- T2438 *Erodium stephanianum* (Geraniaceae); MANG NIU ER MIAO; Common Heron's Bill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 8312, 18317.
- T2439 *Eruca sativa* (Brassicaceae); ZHI MA CAI; Rocket. Used part: seed. TCM Effects: To precipitate *qi* and move water, dispel phlegm and

- settle asthma. TCM Indications: Cough and asthma with abundant phlegm, edema, ascites. Isolated compounds: 8595, 18394, 18397, 18404.
- T2440 *Ervatamia coronaria* (Apocynaceae); GUAN ZHUANG GOU YA HUA; Coronary Ervatamia*. Isolated compounds: 4080.
- T2441 *Ervatamia dichotoma* (Apocynaceae); ER QI GOU YA HUA; Dichotomous Ervatamia*. Isolated compounds: 4080.
- T2442 *Ervatamia divaricata* (Apocynaceae); DAN BAN GOU YA HUA; Divaricate Ervatamia. Used part: root, leaf. TCM Effects: To clear heat and lower blood pressure, resolve toxin and disperse swelling. TCM Indications: Hypertension, swelling pain in throat, sore toxin of welling abscess and flat abscess, knocks and falls. Isolated compounds: 4080, 7292, 7293.
- T2443 *Ervatamia hainanensis* (Apocynaceae); HAI NAN GOU YA HUA; Heyne Ervatamia*. Isolated compounds: 22602.
- T2444 *Ervatamia heyneana* (Apocynaceae); HAI SHI GOU YA HUA; Medicinal Ervatamia. Used part: root. TCM Effects: To clear heat and lower blood pressure, disperse swelling and relieve pain. TCM Indications: Hypertension, swelling pain in throat, abdominal pain. Isolated compounds: 13864.
- T2445 *Ervatamia officinalis* (Apocynaceae); YAO YONG GOU YA HUA; Officinal Ervatamia*. Used part: root. TCM Effects: To clear heat, lower blood pressure, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, hypertension, abdominal pain. Isolated compounds: 6885, 6893.
- T2446 *Ervatamia orientalis* (Apocynaceae); DONG FANG GOU YA HUA; Oriental Ervatamia*. Isolated compounds: 20575.
- T2447 *Erycibe elliptilimba* (Convolvulaceae); AO MAI DING GONG TENG; Elliptical Erycibe. Used part: root and stem. TCM Effects: To dispel wind and relieve pain. Isolated compounds: 7299.
- T2448 *Erycibe expansa* (Convolvulaceae); GUANG BU DING GONG TENG; Expanse Erycibe*. Isolated compounds: 993, 3004, 5235, 5834, 6290, 7300, 7301, 7302, 8278, 10007, 10009, 13281, 13638, 14638, 16209, 18103, 21918, 22667.
- T2449 *Erycibe obtusifolia* (Convolvulaceae); DING GONG TENG; Obtuseleaf Erycibe. Equivalent plant: *Erycibe schmidtii*. Used part: rattan. TCM Effects: To expel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, hemiplegia, painful swelling from knocks and falls. Isolated compounds: 7298, 19542, 19545.
- T2450 *Erycibe schmidtii* (Convolvulaceae); GUANG YE DING GONG TENG; Glabrousleaf Erycibe. Used part: rattan. TCM Effects: See *Erycibe obtusifolia*. TCM Indications: See *Erycibe obtusifolia*. Isolated compounds: 3551, 9486, 19542, 19545.
- T2451 *Eryngium campestre* TIAN YE CI QIN. Isolated compounds: 8724, 8725.
- T2452 *Erysimum cheiranthoides* (Brassicaceae); GUI ZHU TANG JIE; Treacle Erysimum. Used part: whole herb. TCM Effects: To strengthen heart and disinhibit urine, harmonize stomach and disperse food. TCM Indications: Cardiac failure, palpitation, edema, spleen-stomach disharmony, non-digestion of food accumulation. Isolated compounds: 956, 3495, 3496, 3497, 4036, 7296, 7297, 7303, 7320, 7321, 9335, 9336, 20397.
- T2453 *Erysimum crepidifolium* (Brassicaceae); HUAN YANG SHEN YE TANG JIE; Crepinleaf Erysimum*. Isolated compounds: 7303, 9335.
- T2454 *Erysimum diffusum* (Brassicaceae); TANG JIE; Diffuse Erysimum. Used part: seed. TCM Effects: To constrain lung and relieve cough. TCM Indications: Vacuity taxation cough. Isolated compounds: 7320, 9335.
- T2455 *Erysimum ochroleucum* (Brassicaceae); HUANG BAI TANG JIE; Yellowish Erysimum*. Isolated compounds: 9335.
- T2456 *Erysimum perofskianum* (Brassicaceae); A FU HAN TANG JIE; Afghanistan Erysimum*. Isolated compounds: 7323, 8596.
- T2457 *Erythrina abyssinica* (Fabaceae); A BI XI NI YA CI TONG; Abyssinia Coralbean*. Isolated compounds: 50, 52, 53, 54, 55, 3852, 4243, 5146, 5833, 7304, 7325, 7329, 9598, 10398, 12751, 17827, 19883, 19885, 19886, 19887, 19888.
- T2458 *Erythrina americana* (Fabaceae); MEI ZHOU CI TONG; American Coralbean*. Isolated compounds: 7340, 7341.
- T2459 *Erythrina arborescens* (Fabaceae); QIAO MU CI TONG; Himalayan Coralbean. Equivalent plant: *Erythrina variegata*. Used part: dried bark or root cortex. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, hypertonicity in limb joints, knocks and falls, scab and lichen, eczema. Isolated compounds: 7322, 7325, 7328.
- T2460 *Erythrina berteroaana* (Fabaceae); BO SHI CI TONG; Bertero Coralbean*. Isolated compounds: 17833, 19886.
- T2461 *Erythrina burttii* (Fabaceae); KEN NI YA CI TONG; Kenya Coralbean*. Isolated compounds: 55, 2770, 2771, 2772, 2773, 2774, 14568.
- T2462 *Erythrina caribea* (Fabaceae); JIA LE BI CI TONG; Caribbean Coralbean*. Isolated compounds: 7324, 7331.
- T2463 *Erythrina crysragalli* (Fabaceae); JI GUAN CI TONG; Folkers Coralbean*. Isolated compounds: 7308.
- T2464 *Erythrina eriotriocha* (Fabaceae). Isolated compounds: 17837.
- T2465 *Erythrina folkersii* (Fabaceae); FU KE CI TONG; Folk Coralbean*. Isolated compounds: 7325, 7328.
- T2466 *Erythrina glauca* (Fabaceae); HUI CI TONG; Grey Coralbean*. Isolated compounds: 7326, 14206, 19251.
Erythrina indica = *Erythrina variegata*
- T2467 *Erythrina latissima* (Fabaceae); JI KUAN CI TONG; Extreme-wide Coralbean*. Isolated compounds: 51, 3004, 4243, 4604, 7305, 7306, 7307, 8278, 15342, 17048.
- T2468 *Erythrina lithosperma* (Fabaceae); YING HE CI TONG; Hardhilum Coralbean*. Isolated compounds: 7325.
- T2469 *Erythrina lysistemon* (Fabaceae); AI JI ZAI PEI CI TONG; Egypt Cultivate Coralbean*. Isolated compounds: 11415, 11711, 13265.
- T2470 *Erythrina melanacantha* (Fabaceae); HEI CI CI TONG; Blackstick Coralbean*. Isolated compounds: 7324, 7331.
- T2471 *Erythrina poeppigiana* (Fabaceae); SHAN DI CI TONG; Mountain Immortelle. Isolated compounds: 2771, 2772, 4243, 7309, 7310, 7311, 7312, 7313, 7314, 7315, 7316.
- T2472 *Erythrina saclexii* (Fabaceae). Isolated compounds: 5586, 19108.
- T2473 *Erythrina salviiflora* (Fabaceae); SHU WEI CAO HUA CI TONG; Salviaflower Coralbean*. Isolated compounds: 7325, 7328.

- T2474 *Erythrina senegalensis* (Fabaceae); SAI NEI JIA ER CI TONG; Senegal Coralbean*. Isolated compounds: 5544, 7318, 7319, 17837, 22637.
- T2475 *Erythrina sigmoidea* (Fabaceae); AI SI XING CI TONG; S-shape Coralbean*. Isolated compounds: 19883, 19885, 19887, 19888.
- T2476 *Erythrina* spp. (Fabaceae). Isolated compounds: 17047.
- T2477 *Erythrina suberosa* (Fabaceae); SHUAN ZHUANG CI TONG; Suberose Coralbean*. Isolated compounds: 7327.
- T2478 *Erythrina variegata* [Syn. *Erythrina indica*] (Fabaceae); CI TONG; Coral-tree. Used part: dried bark or root cortex. TCM Effects: See *Erythrina arborescens*. TCM Indications: See *Erythrina arborescens*. Isolated compounds: 993, 5849, 5850, 5971, 6313, 7317, 7325, 7328, 7332, 7350, 7351, 7352, 7353, 11015, 11016, 16249, 17832, 21716, 22667.
- T2479 *Erythrina variegata* var. *orientalis* (Fabaceae); HAI TONG PI; Oriental Variegated Coralbean Bark. Used part: bark. TCM Effects: To dispel wind-damp, move *qi*, disinhibit urine and disperse edema. TCM Indications: Wind-damp impediment, pain in lumbus and knees, scab sore, lichen, eczema. Isolated compounds: 7330.
- T2480 *Erythrina vogelii* (Fabaceae). Isolated compounds: 1956, 2014, 3217, 5544, 6496, 17823, 17837, 22603, 22604, 22605, 22637.
- T2481 *Erythrina zeyheri* (Fabaceae). Isolated compounds: 7354, 7355, 7356, 7357, 7358.
- T2482 *Erythrophleum africanum* (Fabaceae); FEI ZHOU GE MU; African Erythrophleum. Isolated compounds: 7342.
- T2483 *Erythrophleum chlorostachyum* (Fabaceae); LU SUI GE MU; Greenspike Erythrophleum*. Isolated compounds: 265, 15746.
- T2484 *Erythrophleum couminga* (Fabaceae); KAO MING GE MU; Couminga Erythrophleum*. Isolated compounds: 4191, 4192, 7342, 7343.
- T2485 *Erythrophleum guineense* (Fabaceae); JI NEI YA GE MU; Red-water Tree. Isolated compounds: 3277, 3278, 7342, 7343, 7344.
- T2486 *Erythrophleum ivorense* (Fabaceae); XIANG YA HAI AN GE MU; Ivory Coast Erythrophleum. Isolated compounds: 3277, 3278, 7342, 7343.
- T2487 *Erythrophleum suaveolens* (Fabaceae); YE XIANG GE MU; Fragrant Erythrophleum. Isolated compounds: 3277, 7342, 7343.
- T2488 *Erythroxylum alaternifolium* (Erythroxylaceae). Isolated compounds: 5385.
- T2489 *Erythroxylum rotundifolium* (Erythroxylaceae); YUAN XING YE GU KE; Roundleaf Coca Shrub*. Isolated compounds: 21903.
- T2490 *Erythroxylum cambodianum* (Erythroxylaceae); JIAN PU ZHAI GU KE; Cambodia Coca Shrub*. Isolated compounds: 3308, 3771, 6853, 7345, 7346, 13644, 19087.
- T2491 *Erythroxylum coca* (Erythroxylaceae); GU KE; Coca Shrub. Isolated compounds: 3695, 3860, 4417, 6683, 8311.
- T2492 *Erythroxylum novogranatense* (Erythroxylaceae); BI LU GU KE; Peru Coca Shrub. Isolated compounds: 3860, 22321.
- T2493 *Erythroxylum zeylanicum* (Erythroxylaceae); XI LAN GU KE; Ceylon Coca Shrub*. Isolated compounds: 142, 3718, 7347, 7348, 7349, 21896.
- T2494 *Escallonia* sp. (Saxifragaceae). Isolated compounds: 1892, 3600, 8081.
- T2495 *Eschscholzia californica* (Papaveraceae); HUA LING CAO; California Poppy. Used part: flower, fruit. TCM Effects: To settle pain, clear heat. Isolated compounds: 1358, 5708, 11665, 18386.
- T2496 *Eschscholzia lobbii* (Papaveraceae); LUO BO HUA LING CAO; Lobb Poppy*. Isolated compounds: 4106.
- T2497 *Eschscholzia* spp. (Papaveraceae). Isolated compounds: 3498.
- T2498 *Esenbeckia yaaxhokob*. Isolated compounds: 7829, 8314, 20137.
- T2499 *Eskemukerjea megacarpum* (Polygonaceae); Bhote Khair. Isolated compounds: 21155, 21850.
- T2500 *Eucalyptus apodophylla* (Myrtaceae); WU BING YE AN; Non-stipe Eucalyptus*. Isolated compounds: 1531, 11745.
- T2501 *Eucalyptus berghei* (Myrtaceae); BO SHI AN; Berghe Eucalyptus*. Isolated compounds: 18867.
- T2502 *Eucalyptus camaldulensis* (Myrtaceae); CHI AN; Longbeak Eucalyptus. Used part: fruit. TCM Effects: To disperse accumulation and *gan*. TCM Indications: Child *gan* accumulation. Isolated compounds: 19087.
- T2503 *Eucalyptus camaldulensis* var. *obtusata* (Myrtaceae); DUN XING CHI AN YE; Obtuse Eucalyptus Leaf*. Isolated compounds: 21789.
- T2504 *Eucalyptus camaldulensis* var. *pendula* (Myrtaceae); CHUI ZHI CHI AN YE; Pendulous Eucalyptus Leaf. Isolated compounds: 3023.
- T2505 *Eucalyptus citriodora* (Myrtaceae); NING MENG AN YE; Lemon Eucalyptus Leaf. Used part: leaf. TCM Effects: To dissipate wind and eliminate damp, fortify stomach and relieve pain, resolve toxin and relieve itch. TCM Indications: Wind-cold common cold, wind-damp bone pain, *qi* stagnation stomachache, food accumulation, sand distention and vomiting diarrhea, dysentery, asthma, malaria, sore and boil, wind papules, eczema, intractable lichen, burns and scalds. Isolated compounds: 1766, 1767, 3296, 3767, 3768, 6757, 7480, 8202, 8784, 11638, 18421, 18682.
- T2506 *Eucalyptus cladocalyx* (Myrtaceae); ZHI ZHUANG E AN. Isolated compounds: 3784, 7911, 15813.
- T2507 *Eucalyptus cypellocarpa* (Myrtaceae). Isolated compounds: 4570, 4571, 4572.
- T2508 *Eucalyptus dives* (Myrtaceae); FU AN; Dives Eucalyptus*. Isolated compounds: 17456.
- T2509 *Eucalyptus globoidea* (Myrtaceae). Isolated compounds: 8554.
- T2510 *Eucalyptus globulus* (Myrtaceae); AN YE; Eucalyptus Leaf. Used part: leaf. TCM Effects: To soothe wind and resolve exterior, clear heat and resolve toxin, rectify *qi* and transform phlegm, kill worms and relieve itch. TCM Indications: Common cold, ardent fever with headache, lung heat cough asthma, pertussis, diarrhea, dysentery, ancylostomiasis, filariasis, wind-damp pain, swelling toxin of welling abscess and sore, eczema, scab and lichen, burns and scalds, bleeding due to external injury. Isolated compounds: 440, 441, 4354, 7480, 7481, 7527, 7528, 7529, 7530, 7531, 7532, 9021, 9044, 9620, 13315, 14337, 14338, 14339, 14343, 17402.
- T2511 *Eucalyptus grandis* (Myrtaceae); JU AN; Toolur. Isolated compounds: 5763, 8307.
- T2512 *Eucalyptus hemiphloia* (Myrtaceae); BAN PI AN; Hemihull Eucalyptus*. Isolated compounds: 7512.
- T2513 *Eucalyptus kino* (Myrtaceae). Isolated compounds: 17174.
- T2514 *Eucalyptus maculata* (Myrtaceae); BAN WEN AN; Spotted Gum. Isolated compounds: 4135.
- T2515 *Eucalyptus phellandra* (Myrtaceae); SHUI HUI XIANG AN;

- Phellandral Eucalyptus*. Isolated compounds: 17055.
- T2516 *Eucalyptus populnea* (Myrtaceae); YANG YE AN; Bimble Box. Isolated compounds: 18410.
- T2517 *Eucalyptus robusta* (Myrtaceae); DA YE AN YE; Swamp Mahogany Leaf. Used part: leaf. TCM Effects: To soothe wind and resolve exterior, relieve cough and dispel phlegm, clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Common cold, ardent fever with headache, lung heat cough asthma, abdominal pain and diarrhea, malaria, wind-damp impediment pain, filariasis, leptospirosis, swelling pain in throat, red eyes, eye screen, welling abscess of ear, erysipelas, swollen welling abscess, mammary welling abscess, measles papules, wind papules, eczema, scab and lichen, scalds. Isolated compounds: 7481, 8095, 18862, 18863, 18867, 18868.
- T2518 *Eucalyptus rostrata* (Myrtaceae); CHANG HUI AN; Long-rostrate Eucalyptus*. Isolated compounds: 18323, 18361.
- T2519 *Eucalyptus* sp. (Myrtaceae). Isolated compounds: 1951, 7482, 17283.
- T2520 *Eucalyptus* spp. (Myrtaceae). Isolated compounds: 17054, 17454.
- T2521 *Eucalyptus tereticornis* (Myrtaceae); XI YE AN YE; Forest Gray Gum Leaf. Used part: leaf. TCM Effects: To diffuse lung and effuse exterior, rectify *qi* and quicken blood, resolve toxin and kill worms. TCM Indications: Common cold, cough, *qi* distention abdominal pain, diarrhea and dysentery, leptospirosis, knocks and falls, sores, erysipelas, mammary welling abscess, scab sore, lichen. Isolated compounds: 4354.
- T2522 *Eucalyptus viminalis* (Myrtaceae); DUO ZHI AN; Ribbon Gum. Isolated compounds: 3301, 3303, 20910.
- T2523 *Eucalyptus wandoo* (Myrtaceae); WO SHI AN; Wandoo Eucalyptus*. Isolated compounds: 18643.
- T2524 *Eucharis amazonica* (Amaryllidaceae); YA MA XUN BAI HE; Amazon lily. Isolated compounds: 1532, 14049, 14687.
- T2525 *Eucheuma muricatum* (Solieriaceae); QI LIN CAI; Muriculate Eucheuma Frond. Used part: frond. TCM Effects: To clear heat and disperse phlegm. TCM Indications: Phlegm-heat cough, scrofula, goiter and tuberculosis, hemorrhoids. Isolated compounds: 1268.
- T2526 *Euchresta formosana* (Fabaceae); TAI WAN SHAN DOU GEN; Taiwan Euchresta. Isolated compounds: 7486, 7889, 7890, 7891, 7892.
- T2527 *Euchresta japonica* (Fabaceae); SAN XIAU YE SHAN DOU GEN; Trifoliate Euchresta. Isolated compounds: 6496, 20096, 22637.
- T2528 *Euchresta* spp. (Fabaceae). Isolated compounds: 16249.
- T2529 *Euchresta strigillosa* (Fabaceae); FU MAO SHAN DOU GEN; Hirsute Euchresta*. Used part: root. TCM Effects: To rectify *qi* and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, enteritis and diarrhea, abdominal distention, abdominal pain, swelling pain in throat. Isolated compounds: 16249, 20096.
- T2530 *Eucommia ulmoides* (Eucommiaceae); DU ZHONG; Eucommia. Used part: bark. TCM Effects: To lower blood pressure, supplement liver and kidney, strengthen sinews and bones, quiet fetus. TCM Indications: Hypertension, kidney vacuity lumbago, weakness in sinews and bones, stirring fetus in pregnancy. Isolated compounds: 85, 816, 2004, 2887, 3551, 3776, 3981, 4521, 4904, 5173, 5802, 5803, 6632, 7000, 7487, 7488, 7489, 7490, 8273, 8276, 8277, 9022, 9028, 9284, 10493, 10653, 10654, 10655, 11523, 12020, 12238, 12916, 13640, 13641, 14224, 15660, 16088, 16089, 16090, 16091, 17409, 17412, 17415, 18628, 19983, 20569, 20573, 20715, 21541, 22192, 22193, 22270.
- T2531 *Eucommia ulmoides* (Eucommiaceae); DU ZHONG YE; Eucommia Leaf. Used part: leaf. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, lower blood pressure. TCM Indications: Lumbar and back pain, limp aching inability of legs and knees, hypertension. Isolated compounds: 2004, 3551, 8277, 9953, 18317, 18628.
Eugenia caryophyllata = *Syzygium aromaticum*
- T2532 *Eugenia edulis* (Myrtaceae); KE SHI FAN YING TAO; Edible Eugenia*. Isolated compounds: 8960, 8961, 15186.
- T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*] (Myrtaceae); WU MO. Used part: leaf. TCM Effects: To resolve toxin, kill worms, relieve itch. TCM Indications: Dysentery, swelling of sores, eczema titillation. Isolated compounds: 13626, 13628, 15172.
- T2534 *Eugenia sandwicensis* (Myrtaceae); SAN WEI ZHI FAN YING TAO; Sandwich Eugenia*. Isolated compounds: 4151, 4179, 4180, 8095.
- T2535 *Euglena gracilis* (Euglenaceae); XI XIAO LUO ZAO. Isolated compounds: 21046.
- T2536 *Euonymus alatus* (Celastraceae); GUI JIAN YU; Winged Euonymus. Used part: winged branchlet. TCM Effects: To regulate *qi* and relieve pain, break blood and free menstruation, resolve toxin and disperse swelling, kill worms. TCM Indications: Concretion and conglomeration, pain in heart and abdomen, amenorrhea, dysmenorrhea, postpartum stasis stagnation abdominal pain, retention of lochia, mounting *qi*, joint running impediment pain, swelling of sores, painful wound from knocks and falls, burns and scalds, poisonous snake bite. Isolated compounds: 6632, 6918, 7671, 16284, 22677.
- T2537 *Euonymus atropurpureus* (Celastraceae); ZI GUO WEI MAO; Eastern Wahoo. Isolated compounds: 6632.
- T2538 *Euonymus bungeanus* (Celastraceae); SI MIAN MU; Winterberry Euonymus. Used part: root, bark, fruit, or branchlet-leaf. TCM Effects: To expel wind and eliminate damp, quicken blood and free network vessels, resolve toxin and relieve pain. TCM Indications: Rheumatic arthritis, lumbago, wound swelling from knocks and falls, thromboangiitis obliterans (Buerger's disease), pulmonary welling abscess, spontaneous external bleeding, swelling toxin of clove sore. Isolated compounds: 27, 6632.
- T2539 *Euonymus europaeus* (Celastraceae); OU ZHOU WEI MAO; European Euonymus. Isolated compounds: 160, 1738, 2438, 5508.
- T2540 *Euonymus fortunei* (Celastraceae); FU FANG TENG; Fortune Euonymus. Used part: stem-leaf. TCM Effects: To boost kidney and strengthen lumbus, soothe sinews and quicken network vessels, stanch bleeding and disperse stasis. TCM Indications: Aching in lumbus and knees, kidney vacuity, hemiplegia, wind-damp impediment pain, infant fright wind, hemoptysis, flooding, blood ejection, menstrual disorder, prolapse of uterus, fracture due to knocks and falls, bleeding due to external injury. Isolated compounds: 6632, 7536, 7537, 7538.
- T2541 *Euonymus grandiflorus* (Celastraceae); YE DU ZHONG; Largeflower Euonymus. Used part: root or bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and free menstruation, transform stasis and dissipate binds. TCM Indications: Lumbago, amenorrhea due to

- blood stasis, dysmenorrhea. Isolated compounds: 9568.
- T2542 *Euonymus japonicus* (Celastraceae); TIAO JING CAO; Evergreen Euonymus. Used part: root. TCM Effects: To quicken blood and regulate menstruation, dispel wind-damp. TCM Indications: Menstrual disorder, dysmenorrhea, wind-damp impediment pain. Isolated compounds: 6918, 7950, 11754, 12061, 18367.
- T2543 *Euonymus mupinensis* (Celastraceae); BAO XING WEI MAO; Paohsing Euonymus. Isolated compounds: 30, 15078, 20355, 22683.
- T2544 *Euonymus nanoides* (Celastraceae). Isolated compounds: 2254, 5344, 6327, 6328, 14164, 14168, 21031, 21640.
- T2545 *Euonymus phellomana* (Celastraceae); SHUAN CHI WEI MAO; Corkywing Euonymus. Used part: bark of branch. TCM Effects: To quicken blood and regulate menstruation, dissipate stasis and relieve pain. TCM Indications: Menstrual disorder, postpartum abdominal pain due to stasis obstruction, knocks and falls, wind-damp impediment pain. Isolated compounds: 7536, 7537, 7538.
- T2546 *Euonymus sacrosancta* (Asteraceae); MAO YE WEI MAO; Sacred Spindle-tree. Used part: branch with wing or root. TCM Effects: To free menstruation, disperse swelling, relieve pain, kill worms. TCM Indications: Concretion and conglomeration, chest impediment, amenorrhea, menstrual disorder, postpartum stasis stagnation abdominal pain, knocks and falls, swelling pain in joints, abdominal pain due to worm accumulation. Isolated compounds: 10887.
- T2547 *Euonymus sieboldianus* (Celastraceae); XI BO SHI WEI MAO; Seibo Euonymus*. Isolated compounds: 7535.
- T2548 *Euonymus verrucosides* (Celastraceae); YOU DIAN WEI MAO; Verrucatespot Euonymus. Isolated compounds: 7536, 7537, 7538.
- T2549 *Eupatorium adenophorum* (Asteraceae); ZI JING ZE LAN HUA; Purplestem Eupatorium Flower. Isolated compounds: 7589.
- T2550 *Eupatorium altissimum* (Asteraceae); GAO ZE LAN; Tall Eupatorium. Isolated compounds: 7591, 18847.
- T2551 *Eupatorium aschenbornianum* (Asteraceae). Isolated compounds: 318, 319, 6797, 7382.
- T2552 *Eupatorium ayapana* (Asteraceae); A YA PAN ZE LAN; Ayapana Eupatorium*. Isolated compounds: 2048, 9452.
- T2553 *Eupatorium azureum* (Asteraceae); TIAN LAN ZE LAN; Azure Eupatorium*. Isolated compounds: 7950.
- T2554 *Eupatorium cannabinum* (Asteraceae); DA MA YE ZE LAN; Hemp-agrimony. Used part: whole herb. TCM Effects: To clear summerheat, repel foulness, transform damp. TCM Indications: Summerheat damage, fever and headache, damp evil brew, inappetence due to glomus in stomach duct, bitter taste and slimy tongue fur. Isolated compounds: 7557, 7593, 9570, 15515, 15681, 18847, 20488.
- T2555 *Eupatorium chinense* (Asteraceae); HUA ZE LAN; Chinese Eupatorium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, course liver and quicken blood. TCM Indications: Wind-heat common cold, chest and rib-side pain, stomach duct pain and abdominal distention, knocks and falls, swollen welling abscess and sore toxin, snake bite. Isolated compounds: 2559, 2699, 7539, 7540, 7541, 7542, 7543, 7544, 7545, 7546, 7547, 7548, 7549, 7581, 9707, 10114, 10767, 14900, 15681, 16971, 16972.
- T2556 *Eupatorium compositifolium* (Asteraceae); FU YE ZE LAN; Compositeleaf Eupatorium*. Isolated compounds: 13235.
- T2557 *Eupatorium cuneifolium* (Asteraceae); XIE YE ZE LAN; Cuneateleaf Eupatorium*. Isolated compounds: 7553, 7554, 7555, 7556, 7584, 7585.
- T2558 *Eupatorium formosanum* (Asteraceae); TAI WAN ZE LAN; Taiwan Agrimony. Used part: aerial parts. TCM Effects: See *Eupatorium fortunei*. TCM Indications: See *Eupatorium fortunei*. Isolated compounds: 7558, 7559, 7586.
- T2559 *Eupatorium fortunei* (Asteraceae); PEI LAN; Fortune Eupatorium. Equivalent plant: *Eupatorium formosanum*. Used part: aerial parts. TCM Effects: To resolve summerheat and transform damp, repel foulness and harmonize center. TCM Indications: Nausea and vomiting, bad breath, drooling, distended head and oppression in chest, sweet-greasy in mouth, summerheat-damp exterior syndrome. Isolated compounds: 149, 153, 186, 219, 289, 4134, 4550, 4975, 5751, 7146, 7578, 7587, 7593, 9761, 10581, 11296, 11626, 13803, 13839, 13969, 13970, 13973, 14005, 14179, 15512, 15935, 20708, 21361, 21838.
- T2560 *Eupatorium glandulosum* (Asteraceae); XIAN ZE LAN; Glandulous Eupatorium*. Isolated compounds: 6796.
Eupatorium glehni = *Eupatorium sachalinense*
- T2561 *Eupatorium gracile* (Asteraceae); XI ZE LAN; Gracile Eupatorium*. Isolated compounds: 19791.
- T2562 *Eupatorium hyssopifolium* (Asteraceae); SHEN XIANG CAO YE ZE LAN; Hyssop-leaved Boneset. Isolated compounds: 7566.
- T2563 *Eupatorium japonicum* (Asteraceae); CHENG GAN CAO; Japanese Eupatorium. Used part: whole herb. TCM Effects: To dispel summerheat and effuse exterior, transform damp and harmonize center, rectify *qi* and quicken blood, resolve toxin. TCM Indications: Fever and headache, oppression in chest and abdomen distention, indigestion, gastroenteritis, common cold, cough, pharyngolaryngitis, tonsillitis, menstrual disorder, knocks and falls, swollen welling abscess, snake bite. Isolated compounds: 2559, 7621, 15681, 20707, 20708.
- T2564 *Eupatorium lancifolium* (Asteraceae); ZHEN YE ZE LAN; Lanceleaf Eupatorium*. Isolated compounds: 7553.
- T2565 *Eupatorium lindleyanum* (Asteraceae); CHENG GAN SHENG MA; Lindley Eupatorium. Used part: whole herb. TCM Effects: To clear lung and relieve cough, transform phlegm and calm asthma, lower blood pressure. TCM Indications: Bronchitis, cough and asthma with abundant phlegm, hypertension. Isolated compounds: 4738, 7539, 7542, 7544, 7567, 7568, 7569, 7570, 7571, 7572, 7573, 7574, 7575, 7576, 7578, 9291, 10114, 10766, 10887, 18317, 21367, 21380.
- T2566 *Eupatorium mikanioides* (Asteraceae); WEI GAN JU ZE LAN; Mikanioid Eupatorium*. Isolated compounds: 4739.
- T2567 *Eupatorium odoratum* (Asteraceae); FEI JI CAO; Fragrant Eupatorium. Used part: whole herb. TCM Effects: To stanch bleeding, kill worms. TCM Indications: Terrene leech bite. Isolated compounds: 1284, 4140, 11691, 15993.
- T2568 *Eupatorium quadrangularae* (Asteraceae); SI LENG ZE LAN; Four-arris Eupatorium*. Isolated compounds: 18293.
- T2569 *Eupatorium rebaudianum* (Asteraceae); TIAN YE JU; Rebaud Eupatorium*. Used part: leaf. TCM Effects: To engender liquid and allay thirst, lower blood pressure. TCM Indications: Diabetes mellitus, hypertension. Isolated compounds: 18561, 20341.

- T2570 *Eupatorium riparium* (Asteraceae); HE AN ZE LAN; Riparian Eupatorium, Riverside Eupatorium. Isolated compounds: 7592, 7950.
- T2571 *Eupatorium rotundifolium* (Asteraceae); YUAN YE ZE LAN; Roundleaf Eupatorium*. Isolated compounds: 6913, 7550, 7551, 7552, 7579, 7580, 7594, 7595.
- T2572 *Eupatorium rugosum* (Asteraceae); ZHOU YE ZE LAN; Mist flower. Isolated compounds: 10775, 21507.
- T2573 *Eupatorium sachalinense* [Syn. *Eupatorium glehni*] (Asteraceae); KU YE DAO ZE LAN; Sachalin Eupatorium*. Isolated compounds: 181, 7560, 7561, 7562, 7563, 7564, 7565, 7581, 7586, 7593, 9570, 9571, 9572.
- T2574 *Eupatorium semiserratum* (Asteraceae); BAN JU CHI ZHUANG ZE LAN; Semiserration Eupatorium*. Isolated compounds: 4739, 7581, 7582, 7583, 7590, 7591.
- T2575 *Eupatorium serotinum* (Asteraceae); WAN HUA ZE LAN; Late-flower Boneset. Isolated compounds: 20488.
- T2576 *Eupatorium stoechadosmum* (Asteraceae); DUO XU GONG; Lavender-gustatory Eupatorium*. Isolated compounds: 20488.
- T2577 *Eupatorium subhastatum* (Asteraceae); JIN JI ZE LAN; Halberd-like Eupatorium*. Isolated compounds: 7278, 7556.
- T2578 *Eupatorium tinifolium* (Asteraceae); SI MIAN MAO JIA MI YE ZE LAN; Tinileaf Eupatorium*. Isolated compounds: 12172.
- T2579 *Eupatorium urticaefolium* (Asteraceae); QIAN MA YE ZE LAN; White Snakeroot. Isolated compounds: 4976, 10775, 21507.
- T2580 *Euphorbia antiquorum* (Euphorbiaceae); HUO YANG LE; Ancients Euphorbia. Used part: stem. TCM Effects: To disinhibit urine and free stool, draw out toxin and remove putrid, kill worms and relieve itch. TCM Indications: Edema, ascites, diarrhea, dysentery, food accumulation, lump glomus, clove sore, welling abscess and flat abscess, scab and lichen. Isolated compounds: 537, 1113, 1463, 1464, 4468, 4472, 4473, 6918, 7611, 7618, 7950, 7996, 11451, 12619, 20712.
- T2581 *Euphorbia chamaesyce* (Euphorbiaceae); MAO GUO DI JIN; Groundfig Spurge. Isolated compounds: 16362.
- T2582 *Euphorbia characias* (Euphorbiaceae); DI ZHONG HAI DA JI; Mediterranean Euphorbia; Mediterranean Spurge. Isolated compounds: 7596, 7597, 7598, 7599, 7600, 7601, 7602, 7603, 7604, 7605, 7606, 7607.
- T2583 *Euphorbia decipiens* (Euphorbiaceae); MI HUO DA JI. Isolated compounds: 15215, 15216, 15217.
- T2584 *Euphorbia ebracteolata* (Euphorbiaceae); YUE XIAN DA JI; Ebracteolate Euphorbia. Equivalent plant: *Euphorbia fischeriana*. Used part: root. TCM Effects: To break accumulation, kill worms, draw out toxin, eliminate putridity, eliminate damp, relieve itch. TCM Indications: Concretion and conglomeration, scrofula, tuberculosis, welling abscess and flat abscess, flowing phlegm, scab sore, intractable lichen, chronic cough and asthma, scrotal damp itch. Isolated compounds: 2442, 5988, 5989, 6667, 6668, 6669, 6670, 6671.
- T2585 *Euphorbia esula* (Euphorbiaceae); JI CHANG LANG DU; Leafy Euphorbia. Used part: root. TCM Effects: To disinhibit water, disperse swelling, kill worms, attack gastrointestinal accumulation. TCM Indications: Edema, ascites, scrofula, itchy skin. Isolated compounds: 11057, 11058, 12065, 14352, 22042, 22044.
- T2586 *Euphorbia esula* var. *cyparissoides* (Euphorbiaceae); XI YE DA JI; Narrowleaf Euphorbia. Used part: whole herb. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Swelling of sores. Isolated compounds: 1113, 7611, 8786, 14352.
- T2587 *Euphorbia fischeriana* (Euphorbiaceae); LANG DU DA JI; Fischer Euphorbia. Used part: root. TCM Effects: See *Euphorbia ebracteolata*. TCM Indications: See *Euphorbia ebracteolata*. Isolated compounds: 245, 12480, 17958.
- T2588 *Euphorbia fortissima* (Euphorbiaceae); NONG DA JI; Dense Euphorbia*. Isolated compounds: 6521.
- T2589 *Euphorbia helioscopia* (Euphorbiaceae); ZE QI; Sun Euphorbia. Used part: whole herb. TCM Effects: To disinhibit water and disperse edema, relieve cough and transform phlegm, resolve toxin and kill worms. TCM Indications: Edema and *qi* fullness, phlegm-rheum cough asthma, malaria, bacillary dysentery, scrofula, tuberculous fistula, medullitis. Isolated compounds: 5616, 5764, 7608, 7609, 7610, 7619, 7620, 9307, 9308, 9309, 9310, 9311, 9312, 9313, 9315, 10624, 13612, 15935, 18203, 18338.
- T2590 *Euphorbia hirta* (Euphorbiaceae); DA FEI YANG CAO; Garden Euphorbia. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, percolate damp and relieve itch, free milk. TCM Indications: Acute enteritis, bacillary dysentery, strangury, hematuria, pulmonary welling abscess, mammary welling abscess, clove sore, toxin swelling, eczema, foot lichen, itchy skin. Isolated compounds: 1113, 6757, 7951.
- T2591 *Euphorbia humifusa* (Euphorbiaceae); DI JIN CAO; Humifusa Euphorbia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Dysentery, enteritis, hemoptysis, hematuria, hematochezia, flooding and spotting, swollen welling abscess, sore and boil. Isolated compounds: 8095, 11083, 11084, 11085, 12049, 18317, 19542, 22195.
- T2592 *Euphorbia hyberna* (Euphorbiaceae); HAI BO NA DA JI; Hyberna Euphorbia. Isolated compounds: 5287, 21513, 21530.
- T2593 *Euphorbia ingens* (Euphorbiaceae); JU DA JI; Enormous Euphorbia. Isolated compounds: 11063.
- T2594 *Euphorbia jolkini* (Euphorbiaceae); NAN DA JI; Jolkin Euphorbia. Isolated compounds: 11892, 11893, 14454.
- T2595 *Euphorbia kamerunica* (Euphorbiaceae). Isolated compounds: 11063.
- T2596 *Euphorbia kansui* (Euphorbiaceae); GAN SUI; Kansui Euphorbia. Used part: tuberoid. TCM Effects: To drain water and expel rheum, break accumulation and free stool. TCM Indications: Edema, ascites, flowing rheum in chest, concretion conglomeration accumulation and gathering, epilepsy, cough and asthma, urinary and fecal stoppage. Isolated compounds: 2238, 2239, 2442, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4838, 6323, 6324, 6325, 6326, 6939, 7611, 7612, 7618, 12129, 12130, 12131, 12137, 12138, 12139, 12140, 12141, 12142, 12143, 12144, 12145, 12146, 12147, 12148, 14301, 16365, 16448, 16449, 21409.
- T2597 *Euphorbia lathyris* (Euphorbiaceae); QIAN JIN ZI; Caper Euphorbia Seed. Used part: ripe seed without seed coat. TCM Effects: To expel water and disperse swelling, break blood and disperse concretion. TCM Indications: Edema, phlegm-rheum, accumulation and distention-fullness, urinary and fecal stoppage, amenorrhea due to

- blood stasis, intractable impediment, wart. Isolated compounds: 663, 664, 2331, 4645, 7615, 7617, 9489, 11059, 11060, 11422, 12543, 12544, 12545.
- T2598 *Euphorbia lathyris* (Euphorbiaceae); XU SUI ZI JING ZHONG BAI ZHI; Caper Euphorbia Latex. Used part: white juice in stem. TCM Effects: To eliminate macula and resolve toxin, close sores. TCM Indications: White patch wind, snake bite. Isolated compounds: 6558.
- T2599 *Euphorbia lunulata* (Euphorbiaceae); MAO YAN CAO; Crescent-shaped Euphorbia. Used part: whole herb. TCM Effects: To suppress cough and dispel phlegm, dissipate binds, expel water, draw out toxin, kill worms. TCM Indications: Phlegm-rheum cough asthma, edema, scrofula, scab and lichen, innominate toxin swelling. Isolated compounds: 663, 8095, 10887, 10888, 12020, 12082, 18317, 18339, 18411.
- T2600 *Euphorbia maculata* (Euphorbiaceae); BAN DI JIN; American Euphorbia. Isolated compounds: 18360.
- T2623 *Euphorbia makinoi* (Euphorbiaceae); HONG RU CAO; Red-milk Grass*. Isolated compounds: 17754.
- T2601 *Euphorbia milii* (Euphorbiaceae); TIE HAI TANG; Crownofhorns Euphorbia. Used part: Stem-leaf and root. TCM Effects: To expel pus, resolve toxin, expel water, quicken blood. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, knocks and falls, bubo, hepatitis, ascites ulcer. Isolated compounds: 14859, 14860, 14861.
- T2602 *Euphorbia nematocypha* (Euphorbiaceae); DA LANG DU; Large Euphorbia Root. Used part: root. TCM Effects: To transform stasis and stanch bleeding, kill worms and relieve itch. TCM Indications: Bleeding due to external injury, painful swelling from knocks and falls, scrofula, scab and lichen. Isolated compounds: 11893, 15330.
- T2603 *Euphorbia nivulia* (Euphorbiaceae); YIN DU DUO ZHI DA JI; Indian Juicy Euphorbia*. Isolated compounds: 5325, 5326.
- T2604 *Euphorbia obtusifoli* (Euphorbiaceae); DUN YE DA JI XIANG JIANG; Obtuseleaf Euphorbia Latex*. Isolated compounds: 9396.
- T2605 *Euphorbia obtusifolia* var. *obtusifolia* (Euphorbiaceae); DUN YE DA JI; Obtuseleaf Euphorbia*. Isolated compounds: 154, 5202, 5476, 6892, 9395, 9396, 9397, 9398, 9399, 9400, 9401.
- T2606 *Euphorbia palustris* (Euphorbiaceae); ZHAO SHENG DA JI; Marshy Euphorbia*. Isolated compounds: 15170.
- T2607 *Euphorbia paralias* (Euphorbiaceae); HAI YANG DA JI; Sea Euphorbia*. Isolated compounds: 11843, 11844, 11845, 11846, 11847, 16652, 16653, 19652, 19653, 19654, 19655, 19656, 19657.
- T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia. Used part: tuberoid. TCM Effects: To drain water and expel rheum, dissipate binds and disperse swelling. TCM Indications: Edema, seeper in chest and abdomen, phlegm-rheum, inhibited urine and stool, swollen welling abscess, scrofula. Isolated compounds: 6220, 11428, 15954.
- T2609 *Euphorbia peplus* (Euphorbiaceae); BO AI DA JI; Petty Euphorbia. Isolated compounds: 21032.
- T2610 *Euphorbia poisonii* (Euphorbiaceae); PO SEN DA JI; Poison Euphorbia*. Isolated compounds: 3074, 18639, 21402.
- T2611 *Euphorbia portlandica* (Euphorbiaceae); BO TE LAN DA JI; Portlan Euphorbia*. Isolated compounds: 4694, 6604, 7883, 13098, 15482, 17731, 17732, 21026, 22734.
- T2612 *Euphorbia prolifera* (Euphorbiaceae); TU GUA LANG DU; Proliferous Euphorbia*. Used part: root. TCM Effects: To disinhibit urine, free stool, move *qi*, dissipate stasis, kill worms, resolve toxin. TCM Indications: Edema, constipation, food accumulation, stomachache, knocks and falls, fracture, scab and lichen, sore toxin. Isolated compounds: 373.
- T2613 *Euphorbia pubescens* (Euphorbiaceae); DUAN ROU MAO DA JI; Shortfluff Euphorbia*. Isolated compounds: 874, 7613, 7614, 11890, 11891, 18170, 18171, 18172, 18173, 19542.
- T2614 *Euphorbia pulcherrima* (Euphorbiaceae); YI PIN HONG; Common Poinsettia. Used part: whole herb. TCM Effects: To regulate menstruation and stanch bleeding, quicken blood and settle pain. TCM Indications: Profuse menstruation, painful swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 12488.
- T2615 *Euphorbia quinquecostata* (Euphorbiaceae); WU ZHU MAI DA JI. Isolated compounds: 1385.
- T2616 *Euphorbia resinifera* (Euphorbiaceae); SHU ZHI DA JI; Resinoid Euphorbia*. Isolated compounds: 18639, 18640.
- T2617 *Euphorbia royleana* (Euphorbiaceae); BA WANG BIAN; Royle Euphorbia Latex. Used part: stem-leaf or white juice in stem. TCM Effects: To dispel wind and resolve toxin, kill worms and relieve itch. TCM Indications: Sore toxin, skin lichen, edema. Isolated compounds: 4491, 6224, 7611, 7618, 8786, 8788.
- T2618 *Euphorbia* sp. (Euphorbiaceae). Isolated compounds: 8311.
- T2619 *Euphorbia* spp. (Euphorbiaceae). Isolated compounds: 13438, 17181.
- T2620 *Euphorbia stepposa* (Euphorbiaceae); CAO YUAN DA JI; Grassland Euphorbia*. Isolated compounds: 15170.
- T2621 *Euphorbia stygiana* (Euphorbiaceae); YOU AN DI JIN; Stygian Euphorbia*. Isolated compounds: 7954, 7955.
- T2622 *Euphorbia supina* (Euphorbiaceae); BAN YE DI JIN; Spottedleaf Euphorbia. Isolated compounds: 16362.
- T2624 *Euphorbia tirucalli* (Euphorbiaceae); LU YU SHU; Malabartree Euphorbia. Used part: whole herb. TCM Effects: To promote lactation, kill worms, resolve toxin. TCM Indications: Postpartum scant milk, lichen sore, swelling pain in joints. Isolated compounds: 7616, 15964.
- T2625 *Euphorbia turczaninowii* (Euphorbiaceae). Isolated compounds: 9474, 9475, 16818, 16819, 16820, 21027.
- T2626 *Euphorbia wallichii* (Euphorbiaceae); DA GUO DA JI; Largefruit Euphorbia*. Isolated compounds: 1962, 3330, 5759, 5760, 9311, 9313, 9314, 9805, 11061, 11062, 11892.
- T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*] (Sapindaceae); LONG YAN YE; Longan Leaf. Used part: leaf. TCM Effects: To effuse exterior and clear heat, resolve toxin, dry damp. TCM Indications: Common cold, malaria, swelling of clove, hemorrhoids, eczema. Isolated compounds: 6918, 17220, 17869, 18411, 18624, 20369, 21540.
- T2628 *Euphorbia officinalis* (Euphorbiaceae); XIAO MI CAO; Meadow Eyebright. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Febrile diseases thirst, headache, lung heat cough, swelling pain in throat, heat strangury, inhibited urination, mouth sore, swollen welling abscess. Isolated

- compounds: 2004.
- T2629 *Euphrasia regelii* (Euphorbiaceae); DUAN XIAN XIAO MI CAO; Regel Eyebright. Isolated compounds: 7533.
- T2630 *Euptelea polyandra* (Eupteleaceae= Trochodendraceae); DUO XIONG RUI LING CHUN MU; Polyandrous Euptelea*. Isolated compounds: 7622, 7623, 7624, 7625, 7626, 7627, 7628, 7629, 7630, 7631, 7632, 7633, 7634, 7635.
- T2631 *Eurya japonica* (Theaceae); LING MU; Japanese Eurya. Used part: leaf or fruit. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, ascites, fever and dry mouth, swelling of sores, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 3594, 18615.
- T2632 *Euryale ferox* (Nymphaeaceae); QIAN SHI GEN; Gordon Euryale Root. Used part: root. TCM Effects: To dissipate binds and relieve pain, check discharge. TCM Indications: Mounting *qi*, leukorrhea, innominate toxin swelling. Isolated compounds: 14240.
- T2633 *Eurycoma harmandiana* (Staphyleaceae). Isolated compounds: 773, 3097, 3098, 3299, 6215, 8510, 9885, 9890, 10934, 10935, 10936, 13867, 13871, 16695.
- T2634 *Eurycoma longifolia* (Staphyleaceae); CHANG YE KUAN MU. Isolated compounds: 421, 3096, 3097, 3098, 3158, 3159, 4938, 4986, 5941, 6215, 6888, 7652, 9563, 9884, 9885, 9887, 10290, 10390, 10391, 10477, 10503, 12334, 12964, 12965, 13669, 13866, 13867, 13868, 13869, 13871, 15598, 15599, 16892, 17304, 17309.
- T2635 *Eurycoma* sp. (Staphyleaceae). Isolated compounds: 378, 381, 389, 420, 421, 2571, 4740, 4986, 5334, 5609, 5610, 5611, 5681, 5893, 5941, 5960, 6214, 6252, 6253, 7011, 7638, 7639, 7640, 7641, 7642, 7643, 7644, 7645, 7646, 7647, 7648, 7649, 7650, 7651, 7653, 7654, 7655, 7943, 9884, 9886, 9887, 9890, 9999, 10021, 10115, 10116, 10192, 10290, 10390, 10391, 10392, 10393, 10477, 10503, 10788, 12521, 12575, 12576, 12964, 13866, 13868, 13869, 13871, 14006, 14007, 16693, 16694, 16695, 16696, 16892, 17480, 20031, 20033, 20035, 20039, 20568, 20572, 20574, 21230, 21759.
- T2636 *Euscaphis japonica* (Staphyleaceae); YE YA CHUN; Common Euscaphis. Used part: fruit or seed. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain, dissipate binds and disperse swelling. TCM Indications: Stomachache, cold mounting with abdominal pain, diarrhea, dysentery, prolapse of rectum, menstrual disorder, prolapse of uterus, painful swollen testes. Isolated compounds: 1935, 6056, 7659, 14314.
- T2637 *Evernia prunastri* LI BIAN ZHI YI. Isolated compounds: 18779.
- T2638 *Evodia austrosinensis* (Rutaceae); HUA NAN WU ZHU YU; South China Evodia. Isolated compounds: 2022, 2023, 4034, 5691, 7665, 10117, 10943.
- T2639 *Evodia baberi* (Rutaceae); YI HUA WU ZHU YU. Isolated compounds: 7665, 19081.
- T2640 *Evodia belaha* (Rutaceae). Isolated compounds: 17033.
- T2641 *Evodia leptia* [Syn. *Ilex leptia*] (Rutaceae); SAN CHA KU; Thin Evodia. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, malaria, icterohepatitis, wind-damp bone pain, eczema, dermatitis, sores. Isolated compounds: 7456, 11606, 12670, 12673, 14551, 18830.
- T2642 *Evodia madagascariensis* (Rutaceae); MA DAO CHOU TAN; Madagascar Evodia*. Isolated compounds: 20978.
- T2643 *Evodia meliifolia* (Rutaceae); LIAN YE WU ZHU YU; Dyebark Evodia. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain. TCM Indications: Pain in stomach duct and abdomen, vomiting, headache. Isolated compounds: 15882.
- T2644 *Evodia rutaecarpa* (Rutaceae); WU ZHU YU; Medicinal Evodia. Equivalent plant: *Evodia rutaecarpa* var. *officinalis*. Used part: fruit. TCM Effects: To dispel cold, dry damp, soothe liver, precipitate *qi*, relieve pain, check vomiting. TCM Indications: Dysentery, cold pain in stomach duct and abdomen, reverting *yin* headache, mounting *qi*, dysmenorrhea, beriberi with edema, hyperchlorhydria, cold-damp diarrhea. Isolated compounds: 114, 179, 180, 1600, 4912, 6308, 6370, 6691, 7663, 7664, 7665, 7666, 7667, 7668, 7669, 7902, 8512, 8956, 8957, 8958, 8991, 10117, 10118, 10325, 11816, 12843, 14135, 14143, 14331, 14624, 14654, 14657, 14658, 14659, 14660, 14741, 14745, 14771, 14799, 14800, 14801, 15882, 15925, 19081, 19081, 19082, 20552, 21076, 21624, 21625.
- T2645 *Evodia rutaecarpa* var. *bodinieri* (Rutaceae); BO SHI WU ZHU YU; Guizhou Evodia. Isolated compounds: 7665, 19081.
- T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia. Used part: fruit. TCM Effects: See *Evodia rutaecarpa*. TCM Indications: See *Evodia rutaecarpa*. Isolated compounds: 7665, 19081, 19801.
- T2647 *Evodia* sp. (Rutaceae). Isolated compounds: 12254.
- T2648 *Evodia* spp. (Rutaceae). Isolated compounds: 12847.
- T2649 *Evolvulus alsinoides* (Convolvulaceae); TU DING GUI; Common Evolvulus. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Jaundice, dysentery, strangury-turbidity, vaginal discharge, clove sore, scab sore. Isolated compounds: 2318, 13686.
- T2650 *Excoecaria agallocha* (Euphorbiaceae); HAI QI; Bling-your-eye-tree. Used part: whole herb. TCM Effects: To drain precipitation, attack toxin. TCM Indications: Replete body and constipation, skin intractable ulcer, swelling toxin of limbs. Isolated compounds: 134, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 5491, 7685, 7686, 7687, 7688, 7689, 7690, 7691, 7692, 9852, 10080, 10299, 10562, 11241, 12173, 12404, 16326, 20986.
- T2651 *Excoecaria cochinchinensis* var. *viridis* (Euphorbiaceae); LU BEI GUI HUA. Used part: leaf. TCM Effects: To kill worms and relieve itch. TCM Indications: Psoriasis, chronic eczema. Isolated compounds: 1935, 7693, 7694, 8095, 8566, 9818, 12082, 19805, 21634.

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- T2652 *Fabiana imbricata* (Solanaceae); PI QI QIE; Peru False Heath. Isolated compounds: 1596.
- T2653 *Fagara* sp. (Rutaceae). Isolated compounds: 19777, 22774.
- T2654 *Fagara* spp. (Rutaceae). Isolated compounds: 3498.
- T2655 *Fagara vitiensis* (Rutaceae); FEI JI AI JIAO; Fiji Fagara*. Isolated compounds: 18057.
- T2656 *Fagara xanthoxyloides* (Rutaceae). Isolated compounds: 113, 2761, 2762, 2763, 4422, 5578, 7701, 7702, 7704, 10474, 11269, 11284, 13098, 14182, 19777.

- T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*] (Polygonaceae); TIAN QIAO MAI GEN; Golden Buckwheat Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse welling abscess, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, sores, scrofula, hepatitis, pulmonary welling abscess, aching sinews and bones, head wind, stomachache, bacillary dysentery, Vaginal discharge. Isolated compounds: 9818, 14371, 17869, 17896, 18411, 19087, 19794, 20444.
- T2658 *Fagopyrum esculentum* (Polygonaceae); QIAO MAI; Common Buckwheat. Used part: seed. TCM Effects: To fortify spleen and disperse accumulation, precipitate *qi* and loosen intestines, resolve toxin and close sores. TCM Indications: Gastrointestinal accumulation, diarrhea, dysentery, intestine gripping sand, white turbidity, vaginal discharge, spontaneous sweating, night sweating, zoster, erysipelas, effusion of back from welling abscess and flat abscess, scrofula, burns and scalds. Isolated compounds: 2347, 9834, 19087, 19186, 19188.
- T2659 *Fagopyrum esculentum* (Polygonaceae); QIAO MAI JIE; Common Buckwheat Stem. Used part: stem-leaf. TCM Effects: To precipitate *qi* and disperse accumulation, clear heat and resolve toxin, stanch bleeding, lower blood pressure. TCM Indications: Dysphagia-occlusion, indigestion, dysentery, vaginal discharge, swollen welling abscess, scalds, hemoptysis, purpura, hypertension. Isolated compounds: 9616, 16196, 19087.
- T2660 *Fagopyrum* spp. (Polygonaceae). Isolated compounds: 5763.
- T2661 *Fagopyrum tataricum* (Polygonaceae); KU QIAO MAI; Tartarian Buckwheat. Isolated compounds: 19087.
- T2662 *Fagus sylvatica* (Fagaceae); OU ZHOU SHUI QING GANG; European Beech. Isolated compounds: 4439, 20556.
- T2663 family Amaryllidaceae spp. (Amaryllidaceae). Isolated compounds: 9186, 9612, 9646, 17573.
- T2664 family Apiaceae spp. (Apiaceae). Isolated compounds: 13137, 18317.
- T2665 family Apocynaceae spp. (Apocynaceae). Isolated compounds: 12020, 20577, 22596, 22602.
- T2666 family Asteraceae spp. (Asteraceae). Isolated compounds: 13137, 17719, 19194, 20016, 20387, 21034, 21207, 21208, 21328, 21329, 21486, 21487, 22401.
- T2667 family Berberidaceae spp. (Berberidaceae). Isolated compounds: 16555.
- T2668 family Brassicaceae spp. (Brassicaceae). Isolated compounds: 6812, 12020, 17117.
- T2669 family Cactaceae spp. (Cactaceae). Isolated compounds: 9646, 19513.
- T2670 family Cistaceae spp. (Cistaceae). Isolated compounds: 13137.
- T2671 family Dilleniaceae spp. (Dilleniaceae). Isolated compounds: 12020.
- T2672 family Euphorbiaceae spp. (Euphorbiaceae). Isolated compounds: 13137, 20235.
- T2673 family Fabaceae spp. (Fabaceae). Isolated compounds: 7883, 9646, 12020, 13137, 18652.
- T2674 family Fumariaceae spp. (Fumariaceae). Isolated compounds: 3498.
- T2675 family Hydrophyllaceae spp. (Hydrophyllaceae). Isolated compounds: 22142.
- T2676 family Liliaceae spp. (Liliaceae). Isolated compounds: 9339.
- T2677 family Meliaceae spp. (Meliaceae). Isolated compounds: 21553.
- T2678 family Menispermaceae spp. (Menispermaceae). Isolated compounds: 21389.
- T2679 family Papaveraceae spp. (Papaveraceae). Isolated compounds: 3498.
- T2680 family Passifloraceae spp. (Passifloraceae). Isolated compounds: 13137.
- T2681 family Poaceae spp. (Poaceae). Isolated compounds: 9646.
- T2682 family Polygonaceae spp. (Polygonaceae). Isolated compounds: 10887.
- T2683 family Pyrolaceae spp. (Pyrolaceae). Isolated compounds: 17476.
- T2684 family Ranunculaceae spp. (Ranunculaceae). Isolated compounds: 1179, 12020.
- T2685 family Resedaceae spp. (Resedaceae). Isolated compounds: 13137.
- T2686 family Rutaceae spp. (Rutaceae). Isolated compounds: 3498, 20135.
- T2687 family Sapindaceae spp. (Sapindaceae). Isolated compounds: 3498.
- T2688 family Scrophulariaceae spp. (Scrophulariaceae). Isolated compounds: 13137.
- T2689 family Simarubaceae spp. (Simarubaceae). Isolated compounds: 19221, 20108.
- T2690 family Thymelaeaceae spp. (Thymelaeaceae). Isolated compounds: 17374, 20550.
- T2691 *Farfugium japonicum* (Asteraceae); LIAN PENG CAO; Japanese Farfugium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dissipate binds and disperse swelling. TCM Indications: Common cold, swelling pain in throat, cough and hemoptysis, hematochezia, hematuria, menstrual disorder, mastitis, scrofula, swelling toxin of welling abscess and boil, clove sore and eczema, knocks and falls, snake bite. Isolated compounds: 7717, 7718, 8017, 10133, 10406, 19731.
- T2692 *Fatsia* spp. (Araliaceae). Isolated compounds: 12642.
- T2693 *Feijoa sellowiana* (Myrtaceae); FEI YUE GUO; Pineapple Guava. Isolated compounds: 3303, 8813, 20910, 21983.
- T2694 *Ferula alliacea* (Apiaceae). Isolated compounds: 17077.
- T2695 *Ferula assafoetida* (Apiaceae); A WEI; Asafetida Giantfennel Resin. Used part: balsam. TCM Effects: To transform concretion and disperse accumulation, kill worms, interrupt malaria. TCM Indications: Concretion and conglomeration, lump glomus, worm accumulation, meat-type food accumulation, cold pain in heart and abdomen, malaria, dysentery. Isolated compounds: 1909, 1910, 1911, 2096, 3969, 3970, 7731, 7732, 7733, 7768, 8087, 9085, 12127, 14763, 15517, 17620, 19224, 22228.
- T2696 *Ferula badrakema* (Apiaceae). Isolated compounds: 2096.
- T2697 *Ferula borealis* (Apiaceae); SHA QIAN HU; Bunge Giantfennel. Used part: root. TCM Effects: To clear heat and resolve exterior, dispel phlegm and suppress cough. TCM Indications: Common cold, fever, headache, pneumonia, trachitis, chest oppression with cough asthma, tonsillitis, scrofula. Isolated compounds: 6479.
- T2698 *Ferula ferulaeoides* (Apiaceae); DUO SAN A WEI; Manyumbell Giantfennel. Used part: root. Isolated compounds: 5626, 5627, 5628, 5629, 5630, 5631, 5632, 5633, 5666, 5667, 5668, 5669.
- T2699 *Ferula ferulago* (Apiaceae). Isolated compounds: 7765, 7766.
- T2700 *Ferula foetida* (Apiaceae); CHOU A WEI; Foetid Giantfennel*. Isolated compounds: 7707, 7768, 7845, 7846, 7847, 7848, 7849, 7850, 19080.
- T2701 *Ferula fukanensis* (Apiaceae); FU KANG A WEI GEN; Fukang Giantfennel Root. Isolated compounds: 5633, 5669, 7982, 7983, 7984,

- 7985.
- T2702 *Ferula kopetdaghensis* (Apiaceae). Isolated compounds: 17079.
- T2703 *Ferula kuhistanica* (Apiaceae); YI LANG A WEI; Iran Giantfennel*. Isolated compounds: 6179, 6180, 7098, 7152, 7791, 7792, 7792, 9829, 11811, 11811, 12310, 12311, 12312, 12313, 12314, 12315, 12316, 12317, 12318, 12319, 12320, 12321, 12322, 12323, 12324, 12325, 12326, 12470, 12470, 12471, 12509, 21744, 22331.
- T2704 *Ferula persica* var. *latisecta* (Apiaceae); BO SI A WEI BIAN ZHONG; Persia Giantfennel Variety*. Isolated compounds: 2800, 2801.
- T2705 *Ferula polyantha* (Apiaceae); DUO HUA A WEI; Manyflower Giantfennel*. Isolated compounds: 17620.
- T2706 *Ferula pseudooreoselinum* (Apiaceae). Isolated compounds: 19225.
- T2707 *Ferula sinaica* (Apiaceae). Isolated compounds: 5890, 12469.
- T2708 *Ferula* sp. (Apiaceae). Isolated compounds: 22552.
- T2709 *Ferula* spp. (Apiaceae). Isolated compounds: 22195.
- T2710 *Ferula xeromorpha* (Apiaceae). Isolated compounds: 22785.
- T2711 *Ferulago brachyloba* (Apiaceae); LEI A WEI. Isolated compounds: 10658.
- T2712 *Ferulago capillaries* (Apiaceae); JU MAO LEI A WEI. Isolated compounds: 2308, 5080, 10658, 13571, 19709, 19710, 19711.
- T2713 *Ferulago nodosa* (Apiaceae); JIE JIE LEI A WEI; Node Ferulago*[]] Isolated compounds: 15939.
- T2714 *Fibraurea chloroleuca* (Menispermaceae); LV BAI TIAN XIAN TENG; Chloro-white Fibraurea*. Isolated compounds: 2304.
- T2715 *Fibraurea recisa* (Menispermaceae); TIAN XIAN TENG; Common Fibraurea. Used part: root, stem or leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Acute tonsillitis, pharyngolaryngitis, infection of upper respiratory tract, conjunctivitis, jaundice, gastroenteritis, dysentery, child indigestion, food poisoning, salpingitis, acute endometritis, chronic endometritis, acute pelvic inflammation, vaginitis, sore and boil, burns and scalds. Isolated compounds: 11851, 16555.
- T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (Moraceae); TIAN XIAN GUO; Erect Fig. Used part: fruit. TCM Effects: To clear heat and engender liquid, fortify spleen and promote digestion, resolve toxin and disperse swelling. TCM Indications: Enteritis, dysentery, constipation, hemorrhoids, throat pain, swelling abscess and sores, scab and lichen. Isolated compounds: 2424, 2425, 2463, 2464, 2465, 5907, 10037, 10180.
- T2717 *Ficus carica* (Moraceae); WU HUA GUO; Fig. Used part: fruit. TCM Effects: To clear heat and engender liquid, fortify spleen and promote digestion, resolve toxin and disperse swelling. TCM Indications: Swelling pain in throat, dry cough with hoarseness, scant breast milk, intestinal heat and constipation, inappetence, indigestion, diarrhea, dysentery, swollen swelling abscess, lichen. Isolated compounds: 671, 672, 673, 674, 2309, 4525, 7996, 11031, 13098, 14104, 14537, 18086, 18276, 18421.
- T2718 *Ficus carica* (Moraceae); WU HUA GUO YE; Fig Leaf. Used part: leaf. TCM Effects: To clear damp heat, resolve sore toxin, disperse swelling and relieve pain. TCM Indications: Damp-heat diarrhea, vaginal discharge, hemorrhoids, pain from swollen swelling abscess, scrofula. Isolated compounds: 1113, 9021, 13098.
Ficus erecta var. *beecheyana* = *Ficus beecheyana*
- T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*] (Moraceae); SHUI TONG MU; Harland Fig. Used part: root cortex, leaf. TCM Effects: To clear heat and disinhibit damp, quicken blood and relieve pain. TCM Indications: Damp-heat inhibited urination, diarrhea, painful swelling from knocks and falls. Isolated compounds: 446, 529.
Ficus harlandii = *Ficus fistulosa*
- T2720 *Ficus hispida* (Moraceae); DUI YE RONG; Oppositeleaf Fig. Used part: root, bark or stem-leaf. TCM Effects: To course wind and clear heat, disperse accumulation and transform phlegm, fortify spleen and eliminate damp, move *qi* and dissipate stasis. TCM Indications: Common cold with fever, conjunctivitis, bronchitis, indigestion, dysentery, spleen vacuity and vaginal discharge, breast milk stoppage, painful swelling from knocks and falls, wind-damp impediment pain. Isolated compounds: 9562, 12716, 21543, 21921.
- T2721 *Ficus microcarpa* (Moraceae); RONG SHU; Smallfruit Fig. Used part: aerial root. TCM Effects: To dissipate wind-heat, dispel wind-damp, quicken blood and relieve pain. TCM Indications: Influenza, pertussis, non-eruption of measles, tonsillitis, conjunctivitis, wind-damp bone pain, sand *qi* abdominal pain, enduring dysentery, stomachache, leukorrhea, eczema, pudendal itch, knocks and falls. Isolated compounds: 174, 178, 183, 188, 189, 190, 197, 202, 203, 204, 211, 228, 249, 252, 267, 283, 332, 530, 2338, 6477, 15757, 15759, 16337, 16402, 21982, 22270, 22272.
- T2722 *Ficus nitida* (Moraceae); LIANG YE RONG; Bright Fig*. Isolated compounds: 7950.
- T2723 *Ficus pumila* (Moraceae); BI LI; Climbing Fig. Used part: leafy stem. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, sciatica, diarrhea, urinary strangury, edema, malaria, amenorrhea, postpartum blood stasis abdominal pain, swelling pain in throat, testitis, lacquer sore, swelling toxin of swelling abscess and sore, knocks and falls. Isolated compounds: 1112, 20713.
- T2724 *Ficus racemosa* (Moraceae); JU GUO RONG; Racemose Fig*. Isolated compounds: 18513.
- T2725 *Ficus ruficaulis* var. *antaoensis* (Moraceae); LAN YU LUO YE RONG. Isolated compounds: 5528, 8664, 8665, 8677, 8678, 11642, 19087.
- T2726 *Ficus septica* (Moraceae); FU YE RONG; Septic Fig*. Isolated compounds: 22151.
- T2727 *Ficus simplicissima* (Moraceae); CU YE RONG; Hispid Fig. Used part: root. TCM Effects: To fortify spleen and supplement lung, move *qi* and disinhibit damp, soothe sinews and quicken network vessels. TCM Indications: Spleen vacuity edema, reduced food intake with fatigue, tuberculosis with cough, vaginal discharge, night sweating, postpartum scant milk, wind-damp impediment pain, edema, cirrhosis with ascites, hepatitis, knocks and falls. Isolated compounds: 4140, 18086.
- T2728 *Ficus* spp. (Moraceae). Isolated compounds: 13098.
Filifolium sibiricum = *Tanacetum sibiricum*
- T2729 *Filipendula ulmaria* (Rosaceae); XUAN GUO WEN ZI CAO; Queen-of-the-Meadows. Used part: root and flower. TCM Effects: To calm liver and lower blood pressure, eliminate putridity and close sores. TCM Indications: Hypertension, sores with pus blood. Isolated

- compounds: 19057.
- T2730 *Fimbristylis dichotoma* (Cyperaceae); PIAO FU CAO; Dichotomous Fimbristylis. Used part: whole herb. TCM Effects: To disinhibit urine, clear heat and resolve toxin. TCM Indications: Inhibited urination, damp-heat edema, strangury, infant fetal toxin. Isolated compounds: 5579, 21063.
- T2731 *Firmiana simplex* (Sterculiaceae); WU TONG BAI PI; Phoenix Tree Bast. Used part: bast. TCM Effects: To lower cholesterol, clear heat and calm liver, dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Hyperlipemia, hypertension, wind-damp impediment pain, knocks and falls, menstrual disorder, hemorrhoids, erysipelas. Isolated compounds: 13097, 15935.
- T2732 *Firmiana simplex* (Sterculiaceae); WU TONG YE; Phoenix Tree Leaf. Used part: leaf. TCM Effects: To lower cholesterol, clear heat and calm liver, dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Hyperlipemia, hypertension, wind-damp pain, numbness and paralysis, swelling toxin of sore and welling abscess, hemorrhoids, shank sore, bleeding due to external injury, hypertension. Isolated compounds: 1112, 1113.
- T2733 *Firmiana simplex* (Sterculiaceae); WU TONG ZI; Phoenix Tree Seed. Used part: seed. TCM Effects: To lower cholesterol, clear heat and calm liver, normalize *qi*, harmonize stomach and disperse food. TCM Indications: Hyperlipemia, food damage, stomachache, mounting *qi*, infant mouth sore. Isolated compounds: 2318, 2892, 20328.
- T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*] (Annonaceae); BAI YE GUA FU MU; Glaucescent Fissistigma. Used part: root. TCM Effects: To dispel wind-damp, free menstruation and quicken blood, stanch bleeding. TCM Indications: Wind-damp impediment pain, menstrual disorder, knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 12917, 15711.
- T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*] (Annonaceae); GUA FU MU; Oldham Fissistigma. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, lumbago, stomachache, knocks and falls. Isolated compounds: 15711.
- T2736 *Fissistigma polyanthum* (Annonaceae); HEI FENG TENG; Manyflower Fissistigma. Used part: root and rattan. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and relieve pain, regulate menstruation. TCM Indications: Sequel of poliomyelitis, rheumatic arthritis, rheumatoid arthritis, painful swelling from knocks and falls, menstrual disorder. Isolated compounds: 7803.
- T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*] (Fabaceae); MAN XING QIAN JIN BA; Philippine Flemingia. Used part: root. TCM Effects: To dispel wind and eliminate damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, wilting-weakness in limbs, knocks and falls, swelling pain in throat. Isolated compounds: 7827, 12358.
- T2738 *Flemingia strobilifera* (Fabaceae); QIU SUI QIAN JIN BA; Conespike Flemingia. Used part: root or whole herb. TCM Effects: To clear heat and eliminate damp, dispel wind and free network vessels, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, lassitude in lumbus and knees, phlegm-heat cough, asthma, pertussis, jaundice. Isolated compounds: 15286, 22044.
- T2739 *Flindersia collina* (Rutaceae); SHAN QIU JU PAN MU; Hill Flindersia*. Isolated compounds: 3926.
- T2740 *Flourensia cernua* (Asteraceae); FU CHUI FE LAO JU; Tarbush. Isolated compounds: 4918, 6797, 7838, 9371, 9480, 9564, 14639, 15666, 15936, 16824, 21038, 21542.
- T2741 *Flourensia riparia* (Asteraceae); HE AN FU LAO JU; Riparian Tarbush*. Isolated compounds: 10050, 19754.
- T2742 *Flustra foliacea* (Flustridae); BEI HAI XIAN TAI CHONG; North Sea Bryozoan. Isolated compounds: 2484, 2621, 2622, 4868, 4869, 7842, 7843, 7844.
- T2743 *Flyriella parryi*. Isolated compounds: 16093.
- T2744 *Foeniculum vulgare* (Apiaceae); HUI XIANG; Fennel Fruit. Used part: fruit. TCM Effects: To warm kidney and disperse cold, rectify *qi* and harmonize stomach. TCM Indications: incarcerated hernia of intestine, effusion of vaginal coat, elephantiasis of scrotum, cold mounting, cold pain in lesser-abdomen, kidney vacuity lumbago, stomachache, vomiting, beriberi. Isolated compounds: 1183, 1186, 1282, 1284, 1289, 3695, 6482, 7385, 7751, 11574, 12843, 19784, 20369, 20566, 20988, 20998, 22195.
- T2745 *Foeniculum vulgare* (Apiaceae); HUI XIANG GEN; Fennel Root. Used part: root. TCM Effects: To warm kidney and harmonize center, move *qi* and relieve pain. TCM Indications: Cold mounting, stomach cold with retching counterflow, abdominal pain, pain in joints due to rheumatalgia. Isolated compounds: 6193, 7426.
- T2746 *Foeniculum vulgare* (Apiaceae); HUI XIANG JING YE; Fennel Stem and Leaf. Used part: stem-leaf. TCM Effects: To expel wind, normalize *qi*, relieve pain. TCM Indications: Sand *qi*, mounting *qi*, swollen welling abscess. Isolated compounds: 1284, 4134, 4879, 7768, 8307, 9043, 11574, 11897, 15325, 18421, 19912, 20566.
- T2747 *Fomes cajanderi* (Polyporaceae); FEN ROU CENG KONG JUN. Isolated compounds: 7876, 7877, 7878.
- T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*] (Polyporaceae); MU TI CENG KONG JUN. Used part: sporocarp. TCM Effects: To disperse accumulation, transform stasis, anticancer. TCM Indications: Food accumulation, carcinoma of esophagus, carcinoma of stomach, ovarian carcinoma. Isolated compounds: 7249.
- T2749 *Fomes officinalis* (Polyporaceae); A LI HONG; Fomes Officinalis Sporocarp. Used part: sporocarp. TCM Effects: To relieve cough and calm asthma, dispel wind and eliminate damp, disperse swelling and relieve pain, disinhibit urine, resolve snake toxin. TCM Indications: Cough, asthma, chronic rheumatic arthritis, swelling pain in throat, stomachache, urethral stone, periodontitis, edema, poisonous snake bite. Isolated compounds: 4909, 4910, 6672, 6673, 6674, 6675, 6676, 7247, 7250, 7856, 7857, 7858, 7859, 12488, 16013, 20237, 20480, 20483.
- Fomes pinicola* = *Fomitopsis pinicola*
- T2750 *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (Polyporaceae); HONG YUAN CENG KONG JUN; Red Belt Polypore. Used part: sporocarp. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-cold-damp impediment, pain

- in joints. Isolated compounds: 7860, 7861, 7862, 7866, 7867, 7868, 7869, 7870, 7871, 7872, 7873, 7874, 7875, 17273, 17388, 17389.
- T2751 *Fomitopsis spraguei* (Polyporaceae); CENG KONG JUN; Polypore. Isolated compounds: 7863, 7864, 7865.
- T2752 *Fordia cauliflora* (Fabaceae); GAN HUA DOU; Common Fordia. Used part: root, leaf. TCM Effects: To quicken blood and free network vessels, disperse swelling and relieve pain, transform phlegm and relieve cough. TCM Indications: Wind-damp impediment pain, knocks and falls, swelling pain of welling abscess and sore, cough. Isolated compounds: 3334, 3335, 6397, 12163.
- T2753 *Formica fusca* (Formicidae); HEI MA YI; Silky Ant. Used part: body. TCM Effects: To supplement kidney and boost essence, free channels and quicken network vessels, resolve toxin and disperse swelling. TCM Indications: Kidney vacuity dizziness and tinnitus, insomnia and frequent dreaming, impotence and emission, wind-damp impediment pain, wind stroke with hemiplegia, numbness in limbs, erythematous lupus, chorionitis, dermatomyositis, swollen welling abscess and clove sores, poisonous snake bite. Isolated compounds: 1053, 2393, 4865, 6545, 22224, 22226.
- T2754 *Forsythia koreana* (Oleaceae); CHAO XIAN LIAN QIAO; Korean Forsythia*. Isolated compounds: 7924.
- T2755 *Forsythia* sp. (Oleaceae). Isolated compounds: 580, 3214, 15135, 15477.
- T2756 *Forsythia suspensa* (Oleaceae); LIAN QIAO; Weeping Forsythia. Used part: dried fruit. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Influenza in early stage, common cold in early stage, wind-heat common cold, encephalitis, hepatitis, tuberculosis, warm disease, heat strangury with inhibited pain, welling abscess, welling abscess and flat abscess, toxin swelling, scrofula, goiter and tuberculosis, throat impediment. Isolated compounds: 386, 387, 1511, 3045, 3048, 3194, 3761, 4550, 6029, 7922, 7923, 7924, 7925, 7926, 7927, 11247, 12440, 12843, 12849, 13595, 15146, 15926, 15927, 16050, 16106, 16107, 17056, 17143, 17145, 17376, 17377, 17409, 18613, 18614, 18615, 18616, 18617, 18618, 18619, 19121, 19540, 20497, 20990, 20992, 20995, 22270, 22720.
- T2757 *Forsythia viridissima* (Oleaceae); JIN ZHONG HUA; Greenstem Forsythia. Used part: proper exciple, root or leaf. TCM Effects: To clear heat and resolve toxin, dissipate binds. TCM Indications: Common cold with fever, red eyes with gall, welling abscess and sores, erysipelas, scrofula. Isolated compounds: 580, 1621, 1623, 1935, 11642, 13595.
- T2758 *Fortunella crassifolia* (Rutaceae); JIN DAN; Meiwa Kumquat. Used part: fruit. TCM Effects: See *Fortunella margarita*. TCM Indications: See *Fortunella margarita*. Isolated compounds: 7930.
- T2759 *Fortunella japonica* (Rutaceae); JIN GAN; Japanese Kumquat. Used part: fruit. TCM Effects: See *Fortunella margarita*. TCM Indications: See *Fortunella margarita*. Isolated compounds: 11716, 15635, 20670.
- T2760 *Fortunella margarita* (Rutaceae); JIN JU; Oval Kumquat. Equivalent plant: *Fortunella crassifolia*, *Fortunella japonica*. Used part: fruit. TCM Effects: To rectify *qi* and resolve depression, disperse food and transform phlegm, arouse liquor. TCM Indications: Oppression and depression in chest, liquor damage with thirst, food stagnation in torpid stomach. Isolated compounds: 7930, 11716, 20670.
- T2761 *Fortunella margarita* (Rutaceae); JIN JU YE; Oval Kumquat Leaf. Used part: leaf. TCM Effects: To soothe depressed liver *qi*, open stomach *qi*, dissipate lung *qi*. TCM Indications: Dysphagia-occlusion, scrofula. Isolated compounds: 15635.
- T2762 *Fouquieria splendens* HUA LAI CI SHU; *Fouquieria splendens*. Isolated compounds: 15930.
- T2763 *Fragaria ananassa* (Rosaceae); CAO MEI; Common Strawberry. Used part: fruit. TCM Effects: To allay thirst, fortify stomach and disperse food. TCM Indications: Thirst, inappetence, indigestion. Isolated compounds: 13261, 15681, 21392.
- T2764 *Fragaria vesca* (Rosaceae); YE CAO MEI; European Strawberry. Isolated compounds: 17876.
Frangula alnus = *Rhamnus frangula*
- T2765 *Fraxinus americana* (Oleaceae); NEI GUO BAI CEN; White Ash. Isolated compounds: 5084, 7934, 7941, 10552, 10553.
- T2766 *Fraxinus bungeana* (Oleaceae); XIAO YE CEN; Bunga Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7942, 7944.
- T2767 *Fraxinus chinensis* (Oleaceae); BAI LA SHU; Chinese Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 7942, 16080.
Fraxinus chinensis var. *acuminata* = *Fraxinus szaboana*
Fraxinus chinensis var. *rhynchophylla* = *Fraxinus rhynchophylla*
- T2768 *Fraxinus excelsior* (Oleaceae); OU ZHOU BAI LA SHU; European Ash. Isolated compounds: 7944.
- T2769 *Fraxinus floribunda* (Oleaceae); XI MA BAI LA SHU; Manyflower Ash. Isolated compounds: 7942.
- T2770 *Fraxinus insularis* (Oleaceae); KU LI MU YE; Retuse Ash Leaf. Isolated compounds: 11089, 11090.
- T2771 *Fraxinus japonica* (Oleaceae); RI BEN BAI LA SHU; Japanese Ash*. Isolated compounds: 16080, 17409.
- T2772 *Fraxinus mandshurica* (Oleaceae); SHUI QU LIU; Manchurian Ash. Used part: bark. TCM Effects: To clear heat and dry damp, clear liver and brighten eyes. TCM Indications: damp-heat diarrhea dysentery, vaginal discharge, liver heat and red eyes, eye screen, oxhide lichen. Isolated compounds: 663, 664.
- T2773 *Fraxinus ornus* (Oleaceae); HUA BAI LA SHU; Flowering Ash. Isolated compounds: 663, 664, 7942, 7944, 11513, 13504.
- T2774 *Fraxinus paxiana* (Oleaceae); QIN LING BAI LA SHU; Pax Ash. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7944.
- T2775 *Fraxinus potamophila* (Oleaceae); TU ER QI SI TAN BAI LA SHU; Turkestan Ash. Isolated compounds: 7944.
- T2776 *Fraxinus quadrangulata* (Oleaceae); SI LENG LA SHU; Blue Ash. Isolated compounds: 3981.
- T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*] (Oleaceae); CEN PI; Largeleaf Chinese Ash Bark. Equivalent plant: *Fraxinus szaboana*, *Fraxinus chinensis*, *Fraxinus stylosa*, *Fraxinus bungeana*, *Fraxinus paxiana*. Used part: bark. TCM Effects: To clear

- heat and dry damp, promote astriction, brighten eyes. TCM Indications: Heat dysentery, diarrhea, chronic bronchitis, rheumatic arthritis, red and white vaginal discharge, red eyes with gall, eye screen. Isolated compounds: 663, 664.
- T2778 *Fraxinus* sp. (Oleaceae). Isolated compounds: 11428.
- T2779 *Fraxinus stylosa* (Oleaceae); LIU YE CEN; Willowleaf Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7944, 20569.
- T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*] (Oleaceae); JIAN YE CEN; Acuteleaf Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 6204, 7944, 19542.
- T2781 *Fritillaria anhuiensis* (Liliaceae); AN HUI BEI MU; Anhui Fritillary. Isolated compounds: 618, 6658, 12181, 21359, 22636.
- T2782 *Fritillaria camtschatcensis* (Liliaceae); HEI BAI HE; Kamchatka Fritillary. Isolated compounds: 9220, 18571, 20056, 20066.
- T2783 *Fritillaria cirrhosa* (Liliaceae); CHUAN BEI MU; Tendrilleaf Fritillary. Equivalent plant: *Fritillaria unibracteata*, *Fritillaria delavayi*, *Fritillaria przewalskii*. Used part: bulb. TCM Effects: To clear heat and moisten lung, relieve cough and transform phlegm. TCM Indications: Lung heat cough, dry cough, chronic bronchitis, infection of upper respiratory tract, tuberculosis, gastric ulcer, duodenal ulcer, *yin* vacuity taxation cough, cough with phlegm and blood. Isolated compounds: 11002, 12275, 12276, 12277, 12278, 12279, 20056.
- T2784 *Fritillaria delavayi* (Liliaceae); LENG SHA BEI MU; Delavay Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 3630, 4996, 4997, 11002.
- T2785 *Fritillaria ebeiensis* (Liliaceae); E BEI BEI MU; Ebei Fritillary. Isolated compounds: 6658, 6660, 6661, 7959, 7961, 7962, 7963, 7964, 7967, 9680.
- T2786 *Fritillaria ebeiensis* var. *purpurea* (Liliaceae); ZI HUA E BEI BEI MU; Purpleflower Fritillary. Isolated compounds: 6657, 6659, 6660, 6661, 7958, 7965, 7966, 7968, 7969, 12168, 22998, 23001.
- T2787 *Fritillaria hupehensis* (Liliaceae); HU BEI BEI MU; Hupeh Fritillary. Used part: bulb. TCM Effects: To relieve cough and transform phlegm, resolve toxin and dissipate binds. TCM Indications: Externally contracted wind-heat cough, phlegm-heat cough, cough with profuse phlegm, scrofula, swollen welling abscess, mammary welling abscess, pulmonary welling abscess. Isolated compounds: 7960, 9679, 9680, 9681, 9682, 9683, 9684, 9685, 12168, 12169.
- T2788 *Fritillaria imperialis* (Liliaceae); XI BEI MU; Crown Imperial. Isolated compounds: 4990, 4996, 5645, 6657, 6661, 7794, 7928, 11002, 11004, 11005, 11244, 16773, 16988, 19828, 21466.
- T2789 *Fritillaria ningguoensis* (Liliaceae); NING GUO BEI MU; Ningguo Fritillary. Isolated compounds: 15613, 15614.
- T2790 *Fritillaria pallidiflora* (Liliaceae); YI BEI MU; Siberian Fritillary. Equivalent plant: *Fritillaria walujewii*. Used part: bulb. TCM Effects: To clear lung, transform phlegm, dissipate binds. TCM Indications: Lung heat cough, sticky phlegm and oppression in chest, consumption cough and hemoptysis, scrofula, swollen welling abscess. Isolated compounds: 6144, 11002, 11003, 16776, 22904, 22905, 22906, 22907.
- T2791 *Fritillaria persica* (Liliaceae); TAO BEI MU; Peach Fritillary* Isolated compounds: 9681, 16989, 17020.
- T2792 *Fritillaria przewalskii* (Liliaceae); GAN SU BEI MU; Przewalsk Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 618, 3630, 4997, 11002, 21359.
- T2793 *Fritillaria puqiensis* (Liliaceae); PU QI BEI MU; Puqi Fritillary*. Isolated compounds: 18208.
- T2794 *Fritillaria siechuanica* (Liliaceae); HUA XI BEI MU; Huaxi Fritillary. Isolated compounds: 16776.
- T2795 *Fritillaria taipaiensis* var. *ningxiaensis* (Liliaceae); NING XIA BEI MU; Ningxia Fritillary. Isolated compounds: 3630, 11002, 16776, 20624.
- Fritillaria thunbergii* = *Fritillaria verticillata* var. *thunbergii*
- T2796 *Fritillaria unibracteata* (Liliaceae); AN ZI BEI MU; Unibract Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 11002, 19983, 20074, 20280, 20446.
- T2797 *Fritillaria ussuriensis* (Liliaceae); PING BEI MU; Ussuri Fritillary. Used part: bulb. TCM Effects: To clear heat and moisten lung, relieve cough and transform phlegm. TCM Indications: Dry cough due to lung dryness, dry cough, *yin* vacuity taxation cough, cough with phlegm and blood. Isolated compounds: 618, 16773, 16774, 16776, 17379, 17380, 17381, 17382, 17383, 17384, 17385, 21359.
- T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*] (Liliaceae); ZHE BEI MU; Thunberg Fritillary. Used part: bulb. TCM Effects: To clear heat and resolve phlegm, dissipate binds and disperse swelling. TCM Indications: Chronic bronchitis, infection of upper respiratory tract, tuberculosis, gastric ulcer, duodenal ulcer, externally contracted wind-heat, phlegm fire cough, pulmonary welling abscess, mammary welling abscess, scrofula, sore toxin, depression in heart-chest. Isolated compounds: 618, 1475, 1963, 2110, 3945, 3946, 6658, 6661, 7155, 7157, 7957, 9220, 9221, 11244, 11770, 12168, 12169, 12181, 13984, 15767, 16773, 16774, 16775, 17337, 20056, 20057, 20058, 21359, 22431, 22432, 22993, 22994, 22995, 22996, 22997.
- T2799 *Fritillaria wabuensis* (Liliaceae); WA BU BEI MU; Wabu Fritillary*. Isolated compounds: 11771.
- T2800 *Fritillaria walujewii* (Liliaceae); XIN JIANG BEI MU; Sinkiang Fritillary. Used part: bulb. TCM Effects: See *Fritillaria pallidiflora*. TCM Indications: See *Fritillaria pallidiflora*. Isolated compounds: 11002, 22326.
- T2801 *Frullania brasiliensis* (Frullaniaceae); BA XI ER YE TAI; Brazilian Ear-leaf Muscus*. Isolated compounds: 6894, 6895, 21899.
- Frullania moniliata* = *Frullania tamarisci* ssp. *moniliata*
- T2802 *Frullania muscicola* (Frullaniaceae); KUI BAN ER YE TAI; Armet-petal Ear-leaf Muscus*. Isolated compounds: 20371.
- T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*] (Frullaniaceae); CHUAN ZHU ER YE TAI; Rosary Ear-leaf Muscus*. Used part: frond. TCM Effects: To brighten eyes, clear heart, supplement kidney. TCM Indications: Red eyes with gall, blurred

- vision, vexation due to febrile disease. Isolated compounds: 20656.
- T2804 *Fuchsia* sp. (Onagraceae). Isolated compounds: 7518, 8311, 16836, 20910.
- T2805 *Fugu ocellatus* (Tetraodontidae); HE TUN; Globefish. Used part: meat. TCM Effects: To supplement liver and kidney, dispel damp and relieve pain. TCM Indications: Impotence, enuresis, dizziness, limp aching lumbus and knees, wind-damp impediment pain, itchy skin. Isolated compounds: 21210, 21211.
- T2806 *Fuligo candida* (Physaceae); LIANG BAI MEI RONG JUN; White Fuliga*. Isolated compounds: 4466.
- T2807 *Fumaria officinalis* (Papaveraceae); YAO YONG QIU GUO ZI JIN; Medicinal Fumaria. Isolated compounds: 2734, 4290, 7996, 7997, 12952, 19284.
- T2808 *Fumaria parviflora* (Papaveraceae); XIAO HUA QIU GUO ZI JIN; Fine-leaved Fumitory. Isolated compounds: 4290, 5708, 16663.
- T2809 *Fumaria schleicheri* (Papaveraceae); YAN JIN; Schleicher Fumitory. Isolated compounds: 16446, 16663.
- T2810 *Fumaria vaillantii* (Papaveraceae); WEI LAN QIU GUO ZI JIN; Few-flowered Fumitory. Isolated compounds: 5708, 12602, 16663.
- T2811 *Funtumia elastica* (Apocynaceae); SI JIAO SHU; Silk-rubber Tree. Isolated compounds: 8010.
- T2812 *Fusarium acutatum*. Isolated compounds: 14451.
- T2813 *Fusarium equisetia*. Isolated compounds: 7221.
- T2814 *Fusarium nivale*. Isolated compounds: 15633.
- T2815 *Fusarium roseum*. Isolated compounds: 22618.
- T2816 *Fusarium* sp. Isolated compounds: 14719, 19296.
- T2817 *Fusarium tricinctum*. Isolated compounds: 22070.
- T2818 *Fuscoporia obliqua* (Polyporaceae); HUA HE KONG JUN; Oblique Fuscoporia*. Isolated compounds: 8033.
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- T2819 *Gackstroemia decipiens* (Lepidolaenaceae); Liverwort. Isolated compounds: 164, 6109, 6110, 7141, 7165, 7175, 10582, 10678, 10679, 21829.
- T2820 *Gaillardia pulchella* (Asteraceae); TIAN REN JU; Rosering Gaillardia. Isolated compounds: 8047, 14205.
- T2821 *Galanthus elwelii* (Amaryllidaceae); DA XUE HUA LIAN; Giant Snowdrop. Isolated compounds: 15750.
- T2822 *Galanthus nivalis* (Amaryllidaceae); XUE HUA LIAN; Snowdrop. Isolated compounds: 8083, 15288.
- T2823 *Galanthus plicatus* ssp. *byzantinus* (Amaryllidaceae); TU ER QI XUE HUA LIAN; Turkish Snowdrop*. Isolated compounds: 8084, 17560, 19633.
- T2824 *Galega officinalis* (Fabaceae); SHAN YANG DOU; Common Goatsrue. Isolated compounds: 8091, 10271, 11965.
- T2825 *Galeobdolon chinense* [Syn. *Lamium chinense*] (Lamiaceae); XIAO YE ZHI MA; China Weasel-snout. Used part: tuberoid. TCM Effects: To stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 580, 1496.
- T2826 *Galeola faberi* (Orchidaceae); SHAN HU LAN; Faber Galeola. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, regulate menstruation and stanch bleeding, promote astriction and stem desertion. TCM Indications: Damp-heat jaundice, dysentery with pus and blood, swelling toxin of sore and welling abscess, poisonous snake bite, menstrual disorder, flooding and spotting, prolapse of uterus, prolapse of rectum. Isolated compounds: 2453, 8237, 9833, 14056.
- T2827 *Galipea bracteata* (Rutaceae); BAO PIAN TU LA SHU; Bracteole Galipea*. Isolated compounds: 16898, 17940.
- T2828 *Galipea longiflora* (Rutaceae); CHANG HUA TU LA SHU; Longflower Galipea*. Isolated compounds: 16898, 17135, 17940.
- T2829 *Galipea officinalis* (Rutaceae); AN GU SI TU LA SHU; Angostura-bark Tree. Isolated compounds: 4421.
- T2830 *Galium aparine* (Rubiaceae); BA XIAN CAO; Catchweed Bedstraw. Used part: herb. TCM Effects: To clear damp heat, dissipate stasis, disperse swelling, resolve toxin. TCM Indications: Strangury-turbidity, hematuria, knocks and falls, intestinal welling abscess, swollen boil, otitis media. Isolated compounds: 1892, 6454, 9458, 11812.
- T2831 *Galium glaucum* (Rubiaceae); FEN LU ZHU YANG YANG; Glaucous Bedstraw*. Isolated compounds: 14933.
- T2832 *Galium mollugo* (Rubiaceae); SU ZHU YANG YANG; Hedge Bedstraw. Isolated compounds: 9458, 14901.
- T2833 *Galium rivale* (Rubiaceae); XI LIU ZHU YANG YANG; River Bedstraw*. Isolated compounds: 18850, 18851, 18852.
- T2834 *Galium* sp. (Rubiaceae). Isolated compounds: 899, 901, 13041, 18222.
- T2835 *Galium verum* (Rubiaceae); PENG ZI CAI; Yellow Bedstraw. Used part: herb. TCM Effects: To clear heat and resolve toxin, move blood and relieve itch. TCM Indications: Hepatitis, painful swelling throat moth, clove sore and swollen boil, paddy field dermatitis, urticaria, knocks and falls, blood *qi* pain. Isolated compounds: 1892, 3551, 14805, 16578, 17169, 17470, 19000.
- T2836 *Gallus gallus domesticus* (Phasianidae); JI NAO; Chicken Brain. Used part: brain. TCM Effects: To extinguish wind and check tetany. TCM Indications: Difficult delivery, child fright epilepsy, infant night crying. Isolated compounds: 2373, 3511.
- T2837 *Gallus gallus domesticus* (Phasianidae); JI ROU; Chicken. Used part: meat. TCM Effects: To warm center, boost *qi*, supplement essence and replenish marrow. TCM Indications: Vacuity taxation with marked emaciation, weakness during convalescence, reduced food intake, stomach reflux, diarrhea and dysentery, diabetes mellitus, edema, frequent urination, flooding and spotting, vaginal discharge, postpartum scant milk. Isolated compounds: 14490.
- T2838 *Gallus gallus domesticus* (Phasianidae); JI NEI JIN; Chicken's Gizzard Endothelium. Used part: dried lining membrane of gizzard. TCM Effects: To fortify spleen and disperse food, rough essence and arrest emission, disperse concretion and transform stone. TCM Indications: Indigestion, food stagnation, vomiting nausea, diarrhea and dysentery, child *gan* accumulation, emission, enuresis, frequent urination, calculus of urinary system, gallstones, amenorrhea with concretion and conglomeration, throat impediment with nipple moth, *gan* of teeth and gum, mouth sore. Isolated compounds: 1048, 1350.
- T2839 *Gallus gallus domesticus* (Phasianidae); JI ZI BAI; Hen's Egg-albumen. Used part: egg white. TCM Effects: To moisten lung and disinhibit throat, clear heat and resolve toxin. TCM Indications: Deep-lying heat sore pharynx, aphonia, red eyes, vexation and fullness, cough and counterflow, dysentery, jaundice, swelling toxin of sore and

- welling abscess, burns and scalds. Isolated compounds: 1042, 13126.
- T2840 *Gallus gallus domesticus* (Phasianidae); JI ZI HUANG; Hen's Egg Yolk. Used part: egg yolk. TCM Effects: To enrich *yin* and moisten dryness, nourish blood and extinguish wind. TCM Indications: Insomnia and vexation, febrile diseases tetanic reversal, vacuity taxation blood ejection, retching counterflow, dysentery, scalds, heat sore, hepatitis, child indigestion. Isolated compounds: 1042, 13126, 15528.
- T2841 *Gallus gallus domesticus* (Phasianidae); JI ZI KE; Hen's Egg Shell. Used part: egg shell. TCM Effects: To promote astriction, inhibit acid, strengthen bones, stanch bleeding, brighten eyes. TCM Indications: Stomach duck pain, stomach reflux, acid vomiting, rachitis in children, various hemorrhage, eye screen, *gan* sore pox toxin. Isolated compounds: 17730.
- T2842 *Galtonia candicans* (Liliaceae); XIA FENG XIN ZI; Summer-hyacinth. Isolated compounds: 1578, 3724, 6107, 7081, 8691, 8699.
- T2843 *Gambeya boukokoensis* (Sapotaceae). Isolated compounds: 8129, 8130, 8131.
- T2844 *Ganoderma applanatum* (Polyporaceae); SHU SHE; Tongue-on-tree. Used part: sporocarp. TCM Effects: To eliminate inflammation, anticancer. TCM Indications: Pharyngolaryngitis, carcinoma of esophagus, nasopharyngeal carcinoma. Isolated compounds: 6168, 8163, 8164, 10759, 14231, 14397, 14456, 14458, 14459, 21100, 21859.
- T2845 *Ganoderma capense* (Polyporaceae); BAO GAI LING ZHI; Cape Ganoderma. Isolated compounds: 8192, 8193, 8194.
- T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*] (Polyporaceae); ZI ZHI; Japanese Ganoderma. Used part: dried sporocarp. TCM Effects: See *Ganoderma lucidum*. TCM Indications: See *Ganoderma lucidum*. Isolated compounds: 7250, 7996, 8753.
- T2847 *Ganoderma lipsiense* (Polyporaceae). Isolated compounds: 8162, 8172.
- T2848 *Ganoderma lucidum* (Polyporaceae); LING ZHI; Lucid Ganoderma. Equivalent plant: *Ganoderma japonicum*. Used part: dried sporocarp. TCM Effects: To boost *qi*-blood, quiet heart and spirit, fortify spleen and stomach, lower cholesterol. TCM Indications: Hyperlipemia, coronary heart disease, angina pectoris, septicemia, carcinoma, hepatitis, vacuity taxation, palpitation, insomnia, dizziness, fatigue hypodynamia, enduring cough and asthma, chronic bronchitis, silicosis. Isolated compounds: 618, 618, 4743, 5608, 5619, 5620, 5946, 7246, 7250, 7251, 8148, 8149, 8150, 8151, 8152, 8153, 8154, 8155, 8156, 8157, 8158, 8159, 8160, 8161, 8165, 8166, 8167, 8168, 8169, 8170, 8171, 8173, 8174, 8175, 8176, 8177, 8178, 8179, 8180, 8181, 8182, 8183, 8184, 8185, 8186, 8187, 8188, 8189, 8190, 8191, 8195, 8196, 8197, 8198, 8199, 8200, 10320, 12482, 12483, 12484, 12485, 12486, 13019, 13020, 13021, 13023, 13024, 13025, 13026, 13027, 13028, 13029, 13030, 13031, 13032, 13033, 13034, 13035, 13036, 13037, 13038, 13039, 13040, 13048, 13049, 13050, 13052, 14231, 14237, 14457, 14460, 14559, 14560, 14561, 14562, 14563, 14564, 14565, 16335, 16336, 18841, 22068, 22069.
Ganoderma sinense = *Ganoderma japonicum*
- T2849 *Garcinia afzelii* (Clusiaceae); A FU ZE LI SHAN ZHU ZI; Afzeli *Garcinia**. Isolated compounds: 679, 680.
- T2850 *Garcinia bancana* (Clusiaceae). Isolated compounds: 8218, 21132.
- T2851 *Garcinia cambogia* (Clusiaceae); TENG HUANG SHAN ZHU ZI; Camboge *Garcinia**. Isolated compounds: 8218.
- T2852 *Garcinia cowa* (Clusiaceae); YUN NAN SHAN ZHU ZI; Yunnan *Garcinia*. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, expel worms. TCM Indications: Eczema, stomatitis, periodontitis, ulcerating welling abscess and sore, burns and scalds, leech in nose. Isolated compounds: 4195, 4196, 4197, 4198, 4199, 4200, 4201, 4202, 5974, 7974, 13495, 15728, 21768, 21780.
- T2853 *Garcinia dulcis* (Clusiaceae); TIAN SHAN ZHU ZI; Dulcin *Garcinia**. Isolated compounds: 1476, 2334, 2685, 2685, 3029, 3475, 3850, 4196, 4200, 4202, 4202, 4220, 5227, 5276, 5926, 5926, 6622, 6623, 6624, 6625, 6626, 6627, 6628, 6629, 6630, 6631, 6633, 6853, 7991, 8218, 8218, 8219, 8219, 8221, 8235, 8246, 10662, 10803, 10887, 11514, 11527, 11564, 12018, 12060, 13088, 13492, 13492, 13493, 14969, 14969, 14988, 14988, 15951, 17588, 18674, 18755, 20150, 21481, 21768, 22581, 22609, 22759, 22760.
- T2854 *Garcinia eugenifolia* (Clusiaceae); ZHEN YE TENG HUANG; Realeaf *Garcinia**. Isolated compounds: 6011.
- T2855 *Garcinia gaudichaudii* (Clusiaceae); GAO DI CHA SHAN ZHU ZI; Gaudicha *Garcinia**. Isolated compounds: 8239.
- T2856 *Garcinia griffithii* (Clusiaceae); GE LI FEI SI TENG HUANG; Griffith *Garcinia**. Isolated compounds: 9091.
- T2857 *Garcinia hanburyi* (Clusiaceae); TENG HUANG SHU; Hanbury *Garcinia**. Used part: resin. TCM Effects: To attack toxin, disperse swelling, eliminate putridity and close sores, stanch bleeding, kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, ulcer, damp sore, carcinoma, intractable lichen, painful swelling from knocks and falls, bleeding due to external injury, scalds. Isolated compounds: 5175, 8128, 8238, 9207, 11433, 11542, 14967, 14968, 14970, 15394.
- T2858 *Garcinia hombroniana* (Clusiaceae); SHAN FENG GUO; Mountainous *Garcinia*. Isolated compounds: 10128, 10572, 14303, 14781.
- T2859 *Garcinia indica* (Clusiaceae); YIN DU TENG HUANG; Indian *Garcinia**. Isolated compounds: 8218.
- T2860 *Garcinia kola* (Clusiaceae); KE LE TENG HUANG; Kola *Garcinia**. Isolated compounds: 9393, 12255, 12256.
- T2861 *Garcinia linii* (Clusiaceae); TAI WAN LV DAO TENG HUANG; Lanyu *Garcinia*. Isolated compounds: 2005, 2694, 5841, 5843, 6010, 6165, 6181, 6183, 8203, 8204, 8205, 8556, 10462, 12886, 12887, 12888, 13808, 14572, 18754.
- T2862 *Garcinia macrophylla* (Clusiaceae). Isolated compounds: 9089, 9090.
- T2863 *Garcinia mangostana* (Clusiaceae); DAO NIAN ZI; Mangosteen. Isolated compounds: 1277, 1928, 2685, 4196, 5064, 5276, 5276, 5925, 5926, 5926, 6158, 6629, 6853, 8206, 8207, 8208, 8209, 8219, 8219, 8220, 8221, 8221, 8222, 8222, 8235, 10199, 10250, 11526, 11526, 11527, 13296, 13484, 13485, 13486, 13487, 13488, 13489, 13490, 13491, 13492, 13492, 13492, 13493, 13493, 13494, 13494, 13495, 13496, 14577, 15715, 17866, 17867, 17869, 17888, 21133, 21358, 21481, 21503, 21723.
- T2864 *Garcinia mannii* (Clusiaceae); MAN TENG HUANG; Mann *Garcinia**. Isolated compounds: 13502, 22759.

- T2865 *Garcinia merguensis* (Clusiaceae). Isolated compounds: 13782.
- T2866 *Garcinia morella* (Clusiaceae); TENG HUANG; Gamboge Tree Resin. Used part: balsam. TCM Effects: To disperse swelling and resolve toxin, stanch bleeding and kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, intractable lichen, malign sore, bleeding due to external injury, *gan* of teeth and gum, burns and scalds. Isolated compounds: 5196, 5651, 7401, 8128, 11540, 11541, 11659, 14967, 14968, 14969, 15394.
- T2867 *Garcinia multiflora* (Clusiaceae); SHAN ZHU ZI; Manyflower *Garcinia*. Used part: bark or fruit. TCM Effects: To clear heat and engender liquid. TCM Indications: Stomach heat fluid damage, vomiting, thirst, lung heat *qi* counterflow, incessant cough. Isolated compounds: 2382, 2383, 5505, 5506, 5819, 6165, 7991, 8210, 8211, 8243, 8244, 8245, 8246, 9543, 13296, 14969, 15279, 15715, 20158, 21082, 21125, 21715, 22609, 22760.
- T2868 *Garcinia nigrolineata* (Clusiaceae); HEI XIAN TIAO TENG HUANG; Nigroline *Garcinia**. Isolated compounds: 1135, 2595, 5184, 5276, 5925, 5926, 7951, 12560, 15572, 15573, 15574, 15575, 15576, 15577, 15578, 15579, 15580, 15581, 15582, 15583, 15584, 15585, 15586, 15587, 15588, 15589, 15590, 15591, 15592, 18755, 21482, 21747, 21748.
- T2869 *Garcinia ovalifolia* (Clusiaceae); LUAN YE TENG HUANG; Ovateleaf *Garcinia**. Isolated compounds: 9857, 22759.
- T2870 *Garcinia polyantha* (Clusiaceae); DUO HUA TENG HUANG; Manyflower *Garcinia**. Isolated compounds: 2135, 2136.
- T2871 *Garcinia pseudoguttifera* (Clusiaceae); FEI JI TENG HUANG; Fiji *Garcinia**. Isolated compounds: 15224, 15225, 18027, 22550.
- T2872 *Garcinia scortechinii* (Clusiaceae). Isolated compounds: 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561.
- T2873 *Garcinia smeathmannii* (Clusiaceae). Isolated compounds: 20018, 20019.
- T2874 *Garcinia* sp. (Clusiaceae). Isolated compounds: 13809.
- T2875 *Garcinia speciosa* (Clusiaceae); MEI LI TENG HUANG; Beautiful *Garcinia**. Isolated compounds: 274, 467, 536, 537, 5276, 5947, 6853, 7125, 7126, 7127, 8223, 8224, 8225, 8226, 10571, 10572, 14298, 14299, 14302, 14315, 14407, 14518.
- T2876 *Garcinia* spp. (Clusiaceae). Isolated compounds: 6181.
- T2877 *Garcinia subelliptica* (Clusiaceae); FU MU. Isolated compounds: 8213, 8214, 8215, 8216, 8217.
- T2878 *Garcinia vilersiana* (Clusiaceae). Isolated compounds: 8558, 9994, 14467, 20435, 20436, 20526, 21960.
- T2879 *Garcinia virgata* (Clusiaceae); DUO ZHI ZHI TENG HUANG. Isolated compounds: 5965, 6415, 6416, 9003, 21417, 22524, 22525.
- T2880 *Garcinia xanthochymus* (Clusiaceae); DA YE TENG HUANG; Yellowjuice *Garcinia*. Isolated compounds: 8212, 9994, 11782, 13808, 21099, 21168, 21783, 22759.
Gardenia florida = *Gardenia jasminoides*
- T2881 *Gardenia gummifera* (Rubiaceae); JIAO ZHI ZI; Gummy *Gardenia**. Isolated compounds: 13264.
- T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*] (Rubiaceae); ZHI ZI; Cape Jasmine Fruit. Used part: ripe fruit. TCM Effects: To drain fire and relieve dysphoria, clear heat and disinhibit urine, eliminate heat in blood, stanch bleeding. TCM Indications: Acute icterohepatitis, febrile diseases, vexation, melancholia, restlessness, stagnation of damp-heat in liver and gall, fever, jaundice, short voidings of reddish urine, blood ejection, spontaneous external bleeding, dysentery with hematochezia and hematuria. Isolated compounds: 397, 1792, 1892, 2925, 3551, 4160, 4245, 4249, 4716, 4717, 5411, 5412, 5414, 7070, 8227, 8228, 8230, 8231, 8234, 8273, 8274, 8276, 8277, 10596, 14282, 14296, 14605, 14691, 14722, 15660, 17331, 19455, 19795, 19983, 22270.
- T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*] (Rubiaceae); ZHI ZI YE; Cape Jasmine Leaf. Used part: leaf. TCM Effects: To disperse swelling and resolve toxin, dispel wind and relieve pain. TCM Indications: Knocks and falls, toxin of clove sore, hemorrhoids, chancre. Isolated compounds: 6829, 8276.
- T2884 *Gardenia jasminoides* var. *grandiflora* (Rubiaceae); SHUI ZHI; Bigflower Cape Jasmine. Used part: fruit. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Heat toxin, jaundice, nosebleed(epistaxis), nephritis with edema, sprain and contusion. Isolated compounds: 4249, 4717, 6632, 8231, 8274, 8276, 13504.
- T2885 *Gardenia jasminoides* var. *grandiflora* (Rubiaceae); SHUI ZHI YE; Bigflower Cape Jasmine Leaf. Used part: leaf. TCM Effects: To disperse swelling. TCM Indications: Knocks and falls. Isolated compounds: 6632, 8276.
- T2886 *Gardenia* sp. (Rubiaceae). Isolated compounds: 107.
- T2887 *Gardenia thailandica* (Rubiaceae); TAI GUO ZHI ZI; Thailand *Gardenia**. Isolated compounds: 6072, 6149, 8229, 9952, 10163, 10597, 18294, 21233.
- T2888 *Garrya ovata* var. *lindheimeri* (Garryaceae). Isolated compounds: 16279.
- T2889 *Garrya veatchii* (Garryaceae). Isolated compounds: 22360.
- T2890 *Gastrodia elata* (Orchidaceae); TIAN MA; Tall *Gastrodia*. Used part: stem and tuber. TCM Effects: To extinguish wind and check tetany, calm liver and subdue *yang*, dispel wind and free network vessels. TCM Indications: Convulsion, child convulsion, spasm in limbs, facial muscle spasm, trigeminal neuralgia, numbness in limbs, acute fright wind, chronic fright wind, tetanus, dizziness, headache, hemiplegia, hypertension, wind-damp impediment pain. Isolated compounds: 2458, 2459, 3766, 4680, 5866, 7412, 8236, 8237, 9486, 9815, 9833, 9839, 9849, 9850, 17968, 19983, 20444, 20446, 22034, 22336, 22346.
- T2891 *Gaultheria fragrantissima* (Ericaceae); FANG XIANG BAI ZHU; Fragrant *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2892 *Gaultheria griffithiana* (Ericaceae); WEI YE BAI ZHU; Long Acuminate Leaves *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2893 *Gaultheria leucocarpa* var. *cumingiana* (Ericaceae); BAI ZHU SHU; Common *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2894 *Gaultheria tetramera* (Ericaceae); SI LIE BAI ZHU; Four Sepals *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2895 *Gaultheria yunnanensis* (Ericaceae); DIAN BAI ZHU SHU; Yunnan *Gaultheria*. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, quicken blood and free network vessels, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, stomach cold pain,

- knocks and falls, cough with profuse phlegm. Isolated compounds: 8240, 8241, 8242, 11479, 13250, 13976, 13977, 19187.
- T2896 *Gelasinospora santi-florii*; Fungus *Gelasinospora santi-florii*. Isolated compounds: 3164, 10527.
- T2897 *Gelsemium elegans* (Loganiaceae); GOU WEN; Graceful Jessamine. Used part: whole herb. TCM Effects: To dispel wind and attack toxin, disperse swelling and relieve pain, anticancer (itself with high toxicity). TCM Indications: Nose carcinoma, eczema, neuralgia, wind-damp impediment pain, scab and *lai*, scrofula, clove sore, knocks and falls. Isolated compounds: 161, 824, 825, 5253, 5254, 5661, 6738, 7039, 8252, 8253, 8254, 8255, 8257, 8258, 8260, 8261, 9658, 9659, 9660, 9661, 10000, 10001, 10002, 10003, 10004, 10010, 10136, 10168, 10169, 10671, 12288, 12289, 12290, 13938, 13948, 13961, 16338, 18543, 20579.
- T2898 *Gelsemium rankinii* (Loganiaceae). Isolated compounds: 9660.
- T2899 *Gelsemium sempervirens* (Loganiaceae); CHANG LV GOU WEN; Carolina Jasmine. Isolated compounds: 8256, 8257, 9016, 9017, 9018, 9019, 10698, 19697.
- T2900 *Genipa americana* (Rubiaceae); JING NI PING; Genipa. Isolated compounds: 8231, 8266, 8267, 8268, 8269, 8272, 8273, 8274, 8275, 8276, 8277.
- T2901 *Genista tinctoria* (Fabaceae); RAN LIAO MU; Common Woadwaxen. Isolated compounds: 8278, 8282.
- T2902 *Gentiana algida* (Gentianaceae); BAI HUA LONG DAN; Alpine Gentian. Used part: whole herb with root. TCM Effects: To drain fire and resolve toxin, suppress cough, disinhibit damp. TCM Indications: Common cold with fever, lung heat cough, sore pharynx, red eyes, dribbling pain of urination, scrotal eczema. Isolated compounds: 1343, 5676, 5772, 6321, 7855, 8297, 8603.
- T2903 *Gentiana bavarica* (Gentianaceae); BA FA LI YA LONG DAN; Bavarian Gentian. Isolated compounds: 20510.
- T2904 *Gentiana brachyphylla* (Gentianaceae); DUAN YE LONG DAN; Shortleaf Gentian*. Isolated compounds: 20510.
- T2905 *Gentiana burseri* (Gentianaceae); BU SHI LONG DAN; Burser Gentian*. Isolated compounds: 8304.
- T2906 *Gentiana campestris* (Gentianaceae); TIAN YE LONG DAN; Meadow Gentian. Isolated compounds: 2220, 15718, 15800, 20511.
- T2907 *Gentiana caucasa* (Gentianaceae); GAO JIA SUO LONG DAN; Caucasian Gentian*. Isolated compounds: 8293.
- T2908 *Gentiana cephalantha* (Gentianaceae); TOU HUA LONG DAN; Headflower Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 8304, 20509.
- T2909 *Gentiana crassicaulis* (Gentianaceae); CU JING QIN JIAO; Thickstem Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304, 12949, 20503, 20509.
- T2910 *Gentiana dahurica* (Gentianaceae); DA WU LI QIN JIAO; Dahuria Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304.
- T2911 *Gentiana germanica* (Gentianaceae); DE GUO LONG DAN; German Gentian. Isolated compounds: 20511.
- T2912 *Gentiana japonica* (Gentianaceae); RI BEN LONG DAN; Japanese Gentian*. Isolated compounds: 20510.
- T2913 *Gentiana kaufmanniana* (Gentianaceae); ZHONG YA QIN JIAO; Central Asia Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8293.
- T2914 *Gentiana kochiana* (Gentianaceae); KU HE LONG DAN; Koch Gentian*. Isolated compounds: 8290, 14732, 20510.
- T2915 *Gentiana kuroo* (Gentianaceae); KU RUO LONG DAN; Kuroo Gentian*. Isolated compounds: 19540.
- T2916 *Gentiana lactea* (Gentianaceae); RU BAI LONG DAN; Milky Gentian*. Isolated compounds: 2220, 20502.
- T2917 *Gentiana leptoclada* (Gentianaceae); MAN ZHI LONG DAN; Spread Gentian. Isolated compounds: 8304.
- T2918 *Gentiana lutea* (Gentianaceae); HUANG LONG DAN; Yellow Gentian. Isolated compounds: 1017, 1110, 1113, 2335, 6011, 7339, 8304, 8306, 10124, 11436, 12889, 12890, 13098, 13916, 19631, 19632, 22261, 22267, 22289.
- T2919 *Gentiana macrophylla* (Gentianaceae); QIN JIAO; Largeleaf Gentian. Equivalent plant: *Gentiana crassicaulis*, *Gentiana straminea*, *Gentiana dahurica*, *Gentiana tianschanica*, *Gentiana tibetica*, *Gentiana kaufmanniana*, *Gentiana siphonantha*. Used part: dried root. TCM Effects: To dispel wind-damp, clear damp heat, relieve pain due to impediment. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, aching pain in joints, late afternoon tidal fever, child *gan* accumulation with fever. Isolated compounds: 7335, 7336, 8296, 8297, 8304, 8636, 12344, 13322, 13323, 13324, 13840, 14606, 18292, 18861.
- T2920 *Gentiana makinoi* (Gentianaceae); MU YE LONG DAN; Pasture Gentian*. Isolated compounds: 8302.
- T2921 *Gentiana manshurica* (Gentianaceae); DONG BEI LONG DAN; Linearleaf Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1017, 1020, 8304, 20509.
- T2922 *Gentiana nivalis* (Gentianaceae); XUE LONG DAN; Snow Gentian. Isolated compounds: 8290, 20510.
- T2923 *Gentiana olgae* (Gentianaceae); AO LIE GE LONG DAN; Olga Gentian*. Isolated compounds: 8292, 8293.
- T2924 *Gentiana olivieri* (Gentianaceae); AO SHI LONG DAN; Olivier Gentian*. Isolated compounds: 8292, 8293, 8295.
- T2925 *Gentiana pedicellata* (Gentianaceae); HUA GENG LONG DAN; Pedicellate Gentian. Isolated compounds: 16761, 16762.
- T2926 *Gentiana ramosa* (Gentianaceae); DUO ZHI LONG DAN; Ramose Gentian*. Isolated compounds: 20511.
- T2927 *Gentiana rhodantha* (Gentianaceae); HONG HUA LONG DAN; Redflower Gentian. Used part: whole herb with root. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Cough and asthma due to lung heat, consumption cough with phlegm and blood, jaundice, dysentery, bloody stool, inhibited urination, postpartum fever, infant fright wind, *gan* accumulation, toxin swelling of sores, burns and scalds, snake bite. Isolated compounds: 8304, 20509.
- T2928 *Gentiana rigescens* (Gentianaceae); DIAN LONG DAN; Rigescens

- Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1017, 1020, 8294, 8296, 8297, 8304, 19983, 20509.
- T2929 *Gentiana robusta* (Gentianaceae); CU ZHUANG LONG DAN; Robust Gentian*. Isolated compounds: 8304, 20509.
- T2930 *Gentiana scabra* (Gentianaceae); LONG DAN; Rough Gentian. Equivalent plant: *Gentiana manshurica*, *Gentiana triflora*, *Gentiana rigescens*, *Gentiana cephalantha*. Used part: root and rhizome. TCM Effects: To clear heat and dry damp, drain liver and settle fright, lower blood pressure. TCM Indications: Acute icterohepatitis, urinary tract infection, acute conjunctivitis, dribbling pain of urination, damp-heat jaundice, genital swelling and itch, damp-heat vaginal discharge, distended head and headache due to liver-gallbladder repletion fire, red eyes with gall, deafness, swelling in ear, pain in rib-side, bitter taste, fright wind and convulsion. Isolated compounds: 1017, 1020, 8297, 8298, 8303, 8304, 8305, 8603, 8635, 8636, 12949, 16087, 18848, 19448, 20503, 20509, 21630.
- T2931 *Gentiana scabra* var. *buesgeri* (Gentianaceae); CU CAO LONG DAN; Scabrous Gentian*. Isolated compounds: 8304.
- T2932 *Gentiana siphonantha* (Gentianaceae); GUAN HUA QIN JIAO; Tubeflower Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297.
- T2933 *Gentiana* sp. (Gentianaceae). Isolated compounds: 8307.
- T2934 *Gentiana straminea* (Gentianaceae); MA HUA JIAO; Straw-coloured Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304.
- T2935 *Gentiana thunbergii* (Gentianaceae); ZAN SHI LONG DAN; Thunberg Gentian*. Isolated compounds: 14982, 20708.
- T2936 *Gentiana tianschanica* (Gentianaceae); TIAN SHAN QIN JIAO; Tianshan Mountain Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8293, 8297, 8303.
- T2937 *Gentiana tibetica* (Gentianaceae); XI ZANG QIN JIAO; Tibet Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 7435, 8291, 8297, 10174, 11435, 11517, 13321.
- T2938 *Gentiana triflora* (Gentianaceae); SAN HUA LONG DAN; Threeflower Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1020, 8304.
- T2939 *Gentiana turkestanorum* (Gentianaceae); TU ER QI SI TAN LONG DAN; Turkestan Gentian*. Isolated compounds: 8292, 8293, 8295.
- T2940 *Gentianella nitida* (Gentianaceae); GUANG LIANG JIA LONG DAN; Shining Gentianella*. Isolated compounds: 1019, 4845.
- T2941 *Gentianopsis paludosa* (Gentianaceae); SHI SHENG BIAN LEI; Swampy Gentianopsis. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Common cold with fever, hepatitis, cholecystitis, nephropylitis, red eyes with gall, infant diarrhea, swelling toxin of sore and boil. Isolated compounds: 13137, 22270.
- Gerardia japonica* = *Phtheiospermum japonicum*
- T2942 *Geraea canescens*. Isolated compounds: 21711, 21857.
- T2943 *Geranium nepalense* (Geraniaceae); NI BO ER LAO GUAN CAO; Nepal Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 12018.
- T2944 *Geranium pratense* (Geraniaceae); CAO YUAN LAO GUAN CAO; Meadow Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 1047, 3490, 5519, 6853, 8095, 8109.
- T2945 *Geranium pratense* ssp. *funitimum* (Geraniaceae); QU YU CAO DI LAO GUAN CAO. Isolated compounds: 3550, 15178.
- T2946 *Geranium robertianum* (Geraniaceae); XIAN XI LAO GUAN CAO; Robert Cranesbill. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, sprain and contusion, swollen welling abscess, sore and boil, measles papules, prolapse of uterus. Isolated compounds: 16836.
- T2947 *Geranium sibiricum* (Geraniaceae); SHU ZHANG LAO GUAN CAO; Siberian Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 6757, 8095.
- T2948 *Geranium* sp. (Geraniaceae). Isolated compounds: 8311.
- T2949 *Geranium wilfordii* (Geraniaceae); LAO GUAN CAO; Wilford Cranesbill. Equivalent plant: *Erodium stephanianum*, *Geranium sibiricum*, *Geranium nepalense*, *Geranium pratense*. Used part: aerial parts. TCM Effects: To dispel wind-damp, free channels and network vessels, check dysentery and diarrhea. TCM Indications: Wind-damp impediment pain, hypertonicity and numbness, aching sinews and bones, diarrhea and dysentery. Isolated compounds: 10887.
- T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*] (Asteraceae); DA DING CAO; Gerbera. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, damp-heat diarrhea dysentery, heat strangury, pain in joints due to rheumatism, swelling toxin of welling abscess and boil, ulcer of lower limb, snake or insect bites, bleeding due to external injury. Isolated compounds: 5918, 5994, 8333, 8334, 14255, 14256.
- T2951 *Gerbera jamesonii* (Asteraceae); FU LANG HUA; Flameray Gerbera. Isolated compounds: 1102, 22465.
- T2952 *Gerbera piloselloides* (Asteraceae); MAO DA DING CAO; Pilose Gerbera. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 4530, 5142, 5396, 5397, 10254, 10646, 17366, 17367.
- T2953 *Gerronema* spp. Isolated compounds: 8360, 8361, 8362, 8363, 8364, 8365.
- T2954 *Getonia floribunda* (Combretaceae); Nguang-Chum; Duang-Sum (local names). Isolated compounds: 3940, 3941.
- T2955 *Geum japonicum* (Rosaceae); SHUI YANG MEI; Japanese Avens. Used part: whole herb. TCM Effects: To supplement vacuity and boost kidney, quicken blood and resolve toxin. TCM Indications: Exterior vacuity and common cold, dizziness and dim vision, lassitude in limbs, emission, impotence, cough with blood ejection, vacuity cold and abdominal pain, menstrual disorder, swelling of sores, fracture. Isolated compounds: 6178, 8250, 8263, 15539, 20910.

- T2956 *Geum japonicum* (Rosaceae); SHUI YANG MEI GEN; Japanese Avens Root. Used part: root. TCM Effects: To supplement vacuity and boost kidney, quicken blood and resolve toxin. TCM Indications: wind-cold common cold, diarrhea and dysentery, kidney vacuity dizziness. Isolated compounds: 8250.
- T2957 *Geum* sp. (Rosaceae). Isolated compounds: 15477.
- T2958 *Geum urbanum* (Rosaceae); XIANG CAO SHUI YANG MEI; Herb Bennet. Isolated compounds: 18265.
- T2959 *Gibberella fujikuroi* TENG CANG CHI MEI. Isolated compounds: 272, 5872, 5873, 10084, 21725.
- T2960 *Gibberella zeae* DAO CHI MEI JUN. Isolated compounds: 22974.
- T2961 *Ginkgo biloba* (Ginkgoaceae); BAI GUO; Ginkgo Nut. Used part: nut. TCM Effects: To constrain lung and settle asthma, check turbid vaginal discharge, reduce urine. TCM Indications: AD syndrome, primary degenerative dementia of Alzheimer disease, multi-infarct dementia, improving cognitive function in elderly dementia patients, stable intermittent claudication, cerebrovascular insufficiency diseases, cough with profuse phlegm, vaginal discharge, enuresis and frequent urination. Isolated compounds: 1030, 1128, 1129, 1130, 1845, 2379, 2380, 3140, 3188, 3209, 3308, 3316, 3435, 6853, 6867, 7882, 8102, 8401, 8403, 8404, 8405, 8407, 9202, 9718, 11648, 12020, 12891, 13823, 13858, 15659, 15664, 15935, 17931, 18317, 18421, 18834, 19087, 19805, 19983, 20369.
- T2962 *Ginkgo biloba* (Ginkgoaceae); BAI GUO GEN; Ginkgo Root. Used part: root. TCM Effects: To boost *qi* and supplement vacuity. TCM Indications: Emission, enuresis, frequent urination at night, vaginal discharge, stone strangury. Isolated compounds: 8404, 8405, 8406, 8408.
- T2963 *Ginkgo biloba* (Ginkgoaceae); BAI GUO SHU PI; Ginkgo Bark. Used part: bark. TCM Effects: To boost *qi* and supplement vacuity. TCM Indications: Copper coin lichen, psoriasis. Isolated compounds: 2378.
- T2964 *Ginkgo biloba* (Ginkgoaceae); BAI GUO YE; Ginkgo Leaf. Used part: leaf. TCM Effects: To quicken blood and nourish heart, constrain lung and astringe intestines. TCM Indications: Coronary heart disease, angina pectoris, hypercholesterolemia, Parkinson's disease, peripheral arterial diseases, chest impediment and heart pain, cough of phlegm asthma, diarrhea and dysentery, vaginal discharge, emission, retinal insufficiency syndrome. Isolated compounds: 1128, 1476, 1935, 2376, 2379, 6854, 7820, 8098, 8401, 8402, 8403, 8404, 8405, 8406, 9389, 11439, 11440, 11642, 11648, 11654, 11658, 11669, 12020, 12032, 12033, 12053, 12082, 15525, 15659, 15668, 18317, 18335, 18336, 18365, 18411, 19514, 19757, 20561, 20565.
- T2965 *Gladiolus* sp. (Iridaceae). Isolated compounds: 16781.
- T2966 *Glaucium corniculatum* (Papaveraceae); XIAO JIAO HAI YING SU; Black-spot Hornpoppy. Isolated compounds: 4106.
- T2967 *Glaucium davum* (Papaveraceae); HUANG HUA HAI YING SU; Yellowflower Hornpoppy*. Isolated compounds: 8513.
- T2968 *Glaucium fimbriigerum* (Papaveraceae); HAI YING SU; Ciliate Hornpoppy*. Used part: fruit. TCM Effects: To settle pain and suppress cough. Isolated compounds: 4106.
- T2969 *Glaucium flavum* (Papaveraceae); HUANG HAI YING SU; Yellow Hornpoppy*. Isolated compounds: 2734, 4923, 7996.
- T2970 *Glaucium oxylobum* (Papaveraceae); JIAN LIE HAI YING SU; Acutelobed Hornpoppy. Isolated compounds: 16339.
- T2971 *Glaucium pulchrum* (Papaveraceae); MEI LI HAI YING SU; Beautiful Hornpoppy*. Isolated compounds: 2734.
- T2972 *Glaucium* spp. (Papaveraceae). Isolated compounds: 3498.
- T2973 *Glechoma longituba* (Lamiaceae); JIN XIAN CAO; Longtube Ground Ivy. Used part: aerial parts. TCM Effects: To disinhibit damp and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling, lower blood pressure. TCM Indications: Heat strangury, stone strangury, damp-heat jaundice, swelling pain of welling abscess and sore, knocks and falls. Isolated compounds: 11602, 13774, 13775, 17400, 18190, 20995.
- T2974 *Glechoma lungituba* (Lamiaceae); LIAN QIAN CAO. Used part: whole herb. TCM Effects: To disinhibit damp and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Heat strangury, stone strangury, damp-heat jaundice, swelling and pain of sore and welling abscess, knocks and falls. Isolated compounds: 22270.
- T2975 *Gleditsia delavayi* (Fabaceae); YUN NAN ZAO JIA; Delacay Honeylocust. Used part: fruit. TCM Effects: To break phlegm and open orifices, resolve toxin and kill worms. TCM Indications: Wind stroke, epilepsy, phlegm reversal with stupor, cough asthma qith phlegm-drool and atrophicexuberant, malign sore. Isolated compounds: 8528.
- T2976 *Gleditsia fera* (Fabaceae); HUA NAN ZAO JIA; South China Honeylocust. Used part: fruit. TCM Effects: To break phlegm and open orifices, resolve toxin and kill worms. TCM Indications: Wind stroke (apoplexy), epilepsy, phlegm reversal with stupor, cough asthma qith phlegm-drool and atrophicexuberant, malign sore. Isolated compounds: 6689.
- Gleditsia horrida* = *Gleditsia sinensis*
- T2977 *Gleditsia monosperma* (Fabaceae); DAN ZHONG ZAO JIA; Monoseed Honeylocust*. Isolated compounds: 18857.
- T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA; Chinese Honeylocust. Used part: fruit. TCM Effects: To relieve cough and dispel phlegm, open orifices, kill worms and dissipate binds. TCM Indications: Cough of phlegm asthma, wind stroke clenched jaw, phlegm-drool and congesting lung, clouded spirit with loss of speech, epilepsy, throat impediment, urinary and fecal stoppage, swollen welling abscess, scab and lichen. Isolated compounds: 6689, 8526, 8527, 8528, 8529, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8537, 8538, 8539, 8540, 8541, 8542, 8543, 8544, 11773, 16050, 20369, 21511.
- T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA CI; Chinese Honeylocust Thorn. Used part: thorn. TCM Effects: To disperse swelling and outthrust pus, track wind, kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, scrofula, leprosy, sore and papules with intractable lichen, postpartum scant milk, retention of afterbirth. Isolated compounds: 7956, 19983, 20355, 20365.
- T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA GEN PI; Chinese Honeylocust Root-bark. Used part: root cortex. TCM Effects: To resolve toxin and dissipate binds, dispel wind and kill worms. TCM Indications: Scrofula, innominate toxin swelling,

- wind-damp bone pain, scab and lichen, malign sore. Isolated compounds: 21511.
- T2981 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA YE; Chinese Honeylocust Leaf. Used part: leaf. TCM Effects: To dispel wind and resolve toxin, engender hairs. TCM Indications: Wind sore. Isolated compounds: 21511.
- T2982 *Gleditsia triacanthos* (Fabaceae); SAN CI ZAO JIA; Honeylocust. Isolated compounds: 21511, 22122.
- T2983 *Glehnia littoralis* (Apiaceae); BEI SHA SHEN; Coastal Glehnia. Used part: root. TCM Effects: To nourish *yin* and clear lung, boost stomach and engender liquid. TCM Indications: Dry cough due to lung dryness, vacuity taxation hemoptysis, stomach *yin* insufficiency, fluid damage and thirst. Isolated compounds: 618, 1513, 2107, 2276, 2308, 2311, 2777, 2887, 3551, 3775, 4033, 4227, 5192, 5208, 6387, 6388, 7334, 7443, 7707, 7768, 8545, 8546, 8547, 10231, 10362, 10362, 10471, 10953, 11001, 11275, 11462, 11620, 11621, 11642, 11963, 13572, 13739, 13760, 13765, 13766, 16258, 16258, 16450, 17085, 17297, 18086, 18317, 19087, 19542, 19618, 19619, 20003, 20369, 21339, 22252, 22332, 22775, 22776.
- T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*] (Aizoaceae); XING SU CAO; Stellate hair Carpetweed. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin and disperse swelling. TCM Indications: Damp-heat diarrhea, common cold with cough, wind papules, sore and boil, red eyes with gall. Isolated compounds: 13004, 13005, 13006, 13007, 13008, 13009.
- T2985 *Globularia davisiana* (Globulariaceae). Isolated compounds: 4698.
- T2986 *Globularia* sp. (Globulariaceae). Isolated compounds: 3695.
- T2987 *Glochidion acuminatum* (Euphorbiaceae); JIAN JIAN SUAN PAN ZI; Acuminate Glochidion*. Isolated compounds: 590, 8559, 8560, 8561, 8562, 8564, 11442.
- T2988 *Glochidion eriocarpum* (Euphorbiaceae); MAO GUO SUAN PAN ZI; Hairypod Glochidion*. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin, dispel damp and relieve itch. TCM Indications: Lacquer sore, paddy field dermatitis (water ulcer), itchy skin, urticaria, eczema, burns, mastitis, acute gastroenteritis, dysentery. Isolated compounds: 8563, 8569, 8570, 13092, 13093, 13098.
- T2989 *Glochidion sphaerogynum* (Euphorbiaceae); YUAN GUO SUAN PAN ZI; Roundfruit Glochidion*. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold with fever, summerheat-heat and thirst, stomatitis, eczema, ulcerating sores. Isolated compounds: 8563, 8570.
- T2990 *Glochidion zeylanicum* (Euphorbiaceae); CHUI ZHU SUAN PAN ZI; Srilanka Glochidion. Isolated compounds: 2522, 8563, 8565, 8566, 8567, 8568, 8569, 8570, 8571, 8572, 8573, 8574, 13092, 13644, 13645.
- T2991 *Gloeophyllum odoratum*. Isolated compounds: 8575, 14054, 14589.
- T2992 *Gloeophyllum* sp. Isolated compounds: 8576, 8577, 8578, 8579, 8580, 10732.
- T2993 *Gloeostereum incarnatum* (Meruliaceae); YU ER; Incarnate Gloeostereum. Used part: sporocarp. TCM Effects: To clear heat and disinherit damp, cool blood and check diarrhea. TCM Indications: Red and white dysentery. Isolated compounds: 8581.
- T2994 *Gloiopeltis furcata* (Endocladaceae); LU JIAO CAI; Furcate Gloiopeltis Frond. Used part: frond. TCM Effects: To clear heat, disperse food, transform phlegm. TCM Indications: Taxation fever, steaming bone, diarrhea, dysentery, wind-damp impediment pain, cough, goiter and tuberculosis, hemorrhoids. Isolated compounds: 702, 1269, 14453, 14817.
- T2995 *Gloriosa superba* (Liliaceae); JIA LAN; Lovely Gloriosa. Used part: rhizome. TCM Indications: Hemiplegia, general arthralgia, convulsion due to high fever, whole body swelling. Isolated compounds: 3911.
- T2996 *Glossocalyx brevipes* (Monimiaceae). Isolated compounds: 8321, 14461, 14462.
- T2997 *Glossocarya calcicola*. Isolated compounds: 2948, 2950, 2952.
- T2998 *Glycine max* (Fabaceae); DA DOU; Soybean. Used part: yellow seed. TCM Effects: To loosen center and induce stagnation, fortify spleen and disinherit water, resolve toxin and disperse swelling. TCM Indications: Food accumulation diarrhea, abdominal distention and torpid intake, swelling toxin of sore and welling abscess, spleen vacuity edema, bleeding due to external injury. Isolated compounds: 361, 398, 2384, 4604, 4606, 5343, 5580, 5621, 8278, 8282, 8818, 8819, 18700, 18701, 20117, 20122, 20129.
- T2999 *Glycine max* (Fabaceae); DOU YOU; Soybean Oil. Used part: seed oil. TCM Effects: To resolve toxin and kill worms, moisten intestines and free stool. TCM Indications: Ileus, constipation, scab and lichen. Isolated compounds: 361, 398, 4468, 4473, 20237.
- T3000 *Glycine max* (Fabaceae); HEI DA DOU; Black Soybean. Used part: black seed. TCM Effects: To quicken blood and disinherit water, dispel wind and resolve toxin, fortify spleen and boost kidney. TCM Indications: Edema distention fullness, wind toxin and beriberi, jaundice edema, kidney vacuity lumbago, enuresis, wind impediment and hypertonicity of sinews, postpartum wind tetany, clenched jaw, swelling toxin of welling abscess and sore, drug poisoning, food poisoning. Isolated compounds: 552, 1594, 2845, 3040, 4473, 4604, 7853, 8278, 8282, 8805, 8818, 10600, 19983, 20041, 20115, 20116, 20118, 20119, 20120, 20121, 20122, 20123, 20124, 20125, 20126, 20127, 20129, 20130, 20131, 20146, 20237, 20369, 20566, 22556, 22844.
- T3001 *Glycine max* (Fabaceae); HEI DA DOU PI; Black Soybean Spermoderm. Used part: spermoderm. TCM Effects: To nourish *yin* and calm liver, dispel wind and resolve toxin. TCM Indications: *Yin* vacuity and heat vexation, night sweating, dizziness, headache, wind impediment, damp toxin, welling abscess. Isolated compounds: 3594, 5027, 12735.
- T3002 *Glycine max* (Fabaceae); HEI DA DOU YE; Black Soybean Leaf. Used part: leaf. TCM Effects: To disinherit water and free strangury, cool blood and resolve toxin. TCM Indications: Blood strangury, snake bite. Isolated compounds: 552, 553, 7853.
- T3003 *Glycine max* (Fabaceae); JIANG; Soybean Paste. Used part: seed of beans. TCM Effects: To eliminate heat, resolve toxin. TCM Indications: Bee sting, insect bites. Isolated compounds: 2845, 12252, 15528, 18230, 22158.
- T3004 *Glycine* sp. (Fabaceae). Isolated compounds: 1866.
- T3005 *Glycosmis chlorosperma* (Rutaceae); LV ZI SHAN XIAO JU. Isolated compounds: 8310, 10138, 10139, 10140, 14715, 14716, 19169, 19170.
- T3006 *Glycosmis citrifolia* (Rutaceae); SHAN XIAO JU; Citrusleaf

- Glycosmis. Used part: root and leaf. TCM Effects: To dispel wind and resolve exterior, transform phlegm and relieve cough, rectify *qi* and disperse accumulation, dissipate stasis and disperse swelling. TCM Indications: Common cold with cough, food stagnation with torpid intake, food accumulation abdominal pain, mounting *qi* (hernia), painful swelling from knocks and falls. Isolated compounds: 3153, 3154, 3155, 8820, 8821, 8848.
- T3007 *Glycosmis montana* (Rutaceae); MENG DA NA SHAN XIAO JU; Montana Glycosmis*. Isolated compounds: 8804, 8822, 10473.
- T3008 *Glycosmis pentaphylla* (Rutaceae); JIU BING YE; Malay Glycosmis. Isolated compounds: 3153, 3154, 3155, 8851, 8852, 8853, 19669.
- T3009 *Glycosmis pseudoracemosa* (Rutaceae); JIA ZONG ZHUANG HUA XU SHAN XIAO JU; Pseudo-racemose Glycosmis*. Isolated compounds: 19171.
- T3010 *Glycosmis stenocarpa* (Rutaceae); XIA GUO SHAN XIAO JU GEN; Narrowfruit Glycosmis Root*. Isolated compounds: 2479, 15117, 15118.
- T3011 *Glycyrrhiza aspera* (Fabaceae); CU MAO GAN CAO; Hirsute Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 4924, 6307, 8500, 8796, 8797, 8798, 8799, 8800, 8801, 8802, 8803, 8839, 8841, 8846, 11443, 11444, 11505, 12771, 12775, 12795, 12913, 19695, 21451.
- T3012 *Glycyrrhiza echinata* (Fabaceae); JI GAN CAO; Echinate Licorice*. Isolated compounds: 6685, 12774, 17836.
- T3013 *Glycyrrhiza glabra* (Fabaceae); GUANG GUO GAN CAO; Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 49, 259, 1886, 5144, 5725, 5726, 5729, 5730, 5731, 6024, 6025, 6307, 7484, 7883, 7885, 8289, 8487, 8487, 8490, 8493, 8496, 8497, 8498, 8499, 8500, 8501, 8841, 8846, 9557, 9558, 9985, 10149, 10152, 10153, 10247, 10499, 11441, 11504, 11505, 11642, 11697, 12152, 12153, 12154, 12155, 12156, 12751, 12752, 12753, 12754, 12755, 12757, 12767, 12772, 12793, 12903, 12907, 12908, 12913, 12914, 14025, 17403, 18001, 19463, 22244, 22667.
- T3014 *Glycyrrhiza glabra* var. *typica* (Fabaceae); OU YA GAN CAO; Typical Licorice*. Isolated compounds: 9558, 10149, 13941, 17049.
- T3015 *Glycyrrhiza inflata* (Fabaceae); ZHANG GUO GAN CAO; Inflated Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 1519, 1597, 1935, 5144, 5405, 5895, 6024, 6025, 7885, 8501, 8835, 8836, 8841, 8846, 11037, 11038, 11504, 11505, 11697, 12766, 12767, 12768, 12769, 12770, 12774, 12776, 12783, 12789, 12790, 12908, 12909, 12910, 12913, 17836, 19463, 19983, 22244.
- T3016 *Glycyrrhiza kansuensis* (Fabaceae); HUANG GAN CAO; Yellow Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 2455, 7637, 7885, 8499, 8501, 8840, 8841, 8846, 8847, 11505, 11772, 12149, 12766, 12913, 13639, 17169, 19983, 20087, 22243, 22244, 22519.
- T3017 *Glycyrrhiza lepidota* (Fabaceae); MEI ZHOU GAN CAO; Scale Licorice*. Isolated compounds: 8487, 8548, 8549, 8550, 8551, 17831.
- T3018 *Glycyrrhiza pallidiflora* (Fabaceae); CI GUO GAN CAO; Pricklyfruit Licorice. Used part: fruit. TCM Effects: To promote lactation. TCM Indications: Postpartum scant milk. Isolated compounds: 6254, 7883, 8850, 12756, 12759, 12760, 12761, 12762, 13286, 16545, 16546.
- T3019 *Glycyrrhiza* sp. (Fabaceae). Isolated compounds: 3574, 5835, 6401, 7333, 8144, 8145, 8552, 8837, 10335, 11446, 11697, 12331, 12751, 12756, 12758, 12759, 12763, 12773, 12796, 13281, 15525, 16173, 17046, 17403, 17825, 17826, 19695, 22519, 22743.
- T3020 *Glycyrrhiza* spp. (Fabaceae). Isolated compounds: 11772, 12779, 12908.
- T3021 *Glycyrrhiza squamulosa* (Fabaceae); YUAN GUO GAN CAO; Roundfruit Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 20250.
- T3022 *Glycyrrhiza uralensis* (Fabaceae); GAN CAO; Ural Licorice. Equivalent plant: *Glycyrrhiza inflata*, *Glycyrrhiza glabra*, *Glycyrrhiza kansuensis*, *Glycyrrhiza aspera*, *Glycyrrhiza yunnanensis*, *Glycyrrhiza squamulosa*. Used part: root and rhizome. TCM Effects: To supplement center and boost *qi*, relax tension and relieve pain, moisten lung and relieve cough, drain fire and resolve toxin, regulate function among herbs. TCM Indications: Hypocortico steroidism [= Addison's disease], gastric ulcer, bronchitis, tuberculosis, peptic ulcer, hepatitis A, spleen-stomach vacuity, fatigue hypodynamia, palpitation and shortness of breath, cough with profuse phlegm, pain in stomach duct and abdomen, acute spasm in limbs, swelling toxin of welling abscess and sore. Isolated compounds: 403, 2455, 4108, 5405, 6024, 6025, 6307, 6402, 7422, 7883, 7885, 8134, 8135, 8136, 8137, 8138, 8139, 8140, 8142, 8143, 8500, 8553, 8764, 8795, 8833, 8838, 8839, 8841, 8842, 8843, 8844, 8845, 8846, 8854, 8855, 8862, 9557, 9558, 10149, 11444, 11490, 11504, 11505, 11576, 11642, 11697, 11746, 12150, 12151, 12764, 12765, 12771, 12777, 12778, 12780, 12782, 12783, 12784, 12785, 12786, 12787, 12788, 12789, 12790, 12791, 12792, 12793, 12794, 12795, 12908, 12911, 12912, 12913, 13107, 13941, 14185, 14466, 14474, 14501, 14507, 14508, 14774, 15265, 15414, 15430, 15471, 17049, 19087, 19463, 19884, 19983, 21069, 21075, 21594, 21694, 22238, 22239, 22240, 22241, 22242, 22243, 22244, 22245.
- T3023 *Glycyrrhiza yunnanensis* (Fabaceae); YUN NAN GAN CAO; Yunnan Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 5895, 8841, 8856, 8857, 8858, 8859, 8860, 8861, 11504, 13286, 13959, 13960, 19983, 22940, 22941, 22942, 22943, 22944, 22945.
- T3024 *Gmelina arborea* (Verbenaceae); YUN NAN SHI ZI; Malay Bushbeech. Isolated compounds: 8863, 16734.
- T3025 *Gmelina philippensis* (Verbenaceae); FEI LV BIN SHI ZI; Philippine Bushbeech*. Isolated compounds: 2234, 3306, 5381, 5382, 5388, 5389, 5390, 6952, 8234, 8277, 8864, 13892, 13893, 18694, 19104, 21544.
- T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*] (Asteraceae); SHU QU CAO; Cudweed. Used part: whole herb. TCM Effects: To suppress cough and transform phlegm, dispel wind and dissipate cold. TCM Indications: Cough with profuse phlegm, asthma, wind-cold common cold, pain in sinews and bones, vaginal discharge, welling abscess and open sore. Isolated compounds: 13145.

- T3027 *Gnaphalium gaudichaudianum* (Asteraceae); A GEN TING SHU QU CAO; Argentine Cudweed*. Isolated compounds: 17373.
Gnaphalium multiceps = *Gnaphalium affine*
- T3028 *Gnetum gnemon* (Gnetaceae); XIAN ZHOU MAI MA TENG; Spinach Jointfir. Isolated compounds: 8866, 8867, 8868, 8869, 8870, 8871, 8872, 8873, 8874, 8876, 8880, 9779, 20505.
- T3029 *Gnetum gnemonoides* (Gnetaceae); MA LAI XI YA MAI MA TENG; Spinach-like Jointfir. Isolated compounds: 8875, 8877, 8880, 9779.
- T3030 *Gnetum hainanense* (Gnetaceae); HAI NAN MAI MA TENG; Hainan Jointfir. Isolated compounds: 8882, 8883, 8884, 8885, 8886, 8887, 8888, 8889, 8890, 8891.
Gnetum indicum = *Gnetum parvifolium*
- T3031 *Gnetum latifolium* (Gnetaceae); KUAN YE MAI MA TENG; Broadleaf Jointfir. Isolated compounds: 12546.
- T3032 *Gnetum montanum* f. *megalocarpum* (Gnetaceae); DA ZI MAI MA TENG; Bigseed Jointfir. Isolated compounds: 8893, 8894, 8895, 8896.
- T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*] (Gnetaceae); XIAO YE MAI MA TENG; Smallleaf Jointfir. Used part: stem, leaf or root. TCM Effects: To dispel wind and eliminate damp, stanch bleeding and dissipate stasis, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, lumbago, crane's knee wind, knocks and falls, ulcerative bleeding, chronic trachitis. Isolated compounds: 5067, 5997, 8892, 9779, 11672, 16688, 16689, 16690, 16691, 18643.
- T3034 *Gnetum pendulum* (Gnetaceae); CHUI ZI MAI MA TENG; Pendentseed Jointfir. Isolated compounds: 8897, 8898.
- T3035 *Gnetum ula* (Gnetaceae); YIN DU MAI MA TENG; India Jointfir. Isolated compounds: 8878, 8892.
- T3036 *Gnidia involucreta* (Thymelaeaceae); ZONG BAO GE NI DI MU. Isolated compounds: 16839, 21766, 22935.
- T3037 *Gnidia lamprantha* (Thymelaeaceae); LIANG HUA GE NI DI MU. Isolated compounds: 15999.
- T3038 *Gnidia latifolia* (Thymelaeaceae); KUAN YE GE NI DI MU. Isolated compounds: 15990.
- T3039 *Gnidia polycephala* (Thymelaeaceae); DUO TOU GE NI DI MU. Isolated compounds: 8757, 14470.
- T3040 *Gomphrena globosa* (Amaranthaceae); QIAN RI HONG; Globeamaranth. Used part: inflorescence or herb. TCM Effects: To suppress cough and calm asthma, clear liver and brighten eyes, resolve toxin. TCM Indications: Cough, asthma, pertussis, infant night crying, red eyes with gall, liver heat and dizziness, headache, dysentery, sore and boil. Isolated compounds: 1013, 8927, 8928, 8929, 8930, 8931, 11207, 20434.
- T3041 *Goniothalamus amuyon* (Annonaceae); TAI WAN GE NA XIANG; Taiwan Goniothalamus. Isolated compounds: 1696, 3555, 3695, 5179, 5179, 5180, 5532, 6201, 8932, 8933, 8934, 8935, 8936, 8938, 8947, 8947, 8948, 8949, 8950, 12917, 13258, 13943, 17409, 19983, 20369.
- T3042 *Goniothalamus arvensis* (Annonaceae); TIAN YE GE NA XIANG; Field Goniothalamus*. Isolated compounds: 241, 311, 1008.
- T3043 *Goniothalamus cardiopetalus* (Annonaceae); XIN XING BAN GE NA XIANG; Cardia-petal Goniothalamus*. Isolated compounds: 3189.
- T3044 *Goniothalamus cheliensis* (Annonaceae); GE NA XIANG; Cheliensis Goniothalamus. Isolated compounds: 3504, 3505, 3506, 8939, 8940, 8941, 8942, 8943, 8944.
- T3045 *Goniothalamus gardneri* (Annonaceae); CHANG YE GE NA XIANG; Longleaf Goniothalamus. Isolated compounds: 5479, 5821, 5824, 7818, 8232, 8233, 10787, 15285, 21770, 22067.
- T3046 *Goniothalamus giganteus* (Annonaceae); DA GE NA XIANG; Big Goniothalamus*. Isolated compounds: 1008, 8381, 18240, 18249.
- T3047 *Goniothalamus griffithii* (Annonaceae); DA HUA GE NA XIANG; Bigflower Goniothalamus. Isolated compounds: 404, 405, 1049, 6183, 8937, 8947, 9001, 9002, 9004, 9005, 9006, 17403.
- T3048 *Goniothalamus howii* (Annonaceae); HAI NAN GE NA XIANG; Hainan Goniothalamus. Isolated compounds: 9654, 9655.
- T3049 *Goniothalamus leiocarpus* (Annonaceae); JIN PING GE NA XIANG; Leiocarpus Goniothalamus. Isolated compounds: 1313, 4089, 8381, 8947, 15099.
- T3050 *Goniothalamus* sp. (Annonaceae). Isolated compounds: 3503, 8945, 9778, 13547, 13548, 13549.
- T3051 *Goniothalamus thwaitesii* (Annonaceae). Isolated compounds: 1339, 13628.
- T3052 *Gonystylus keithii* (Thymelaeaceae); KAI TE LENG ZHU MU; Kaith Ramin*. Isolated compounds: 16408, 16409.
- T3053 *Gorgoniae suberogorgia* (Gorgoniidae); LIU SHAN HU; Gorgonian *Gorgoniae suberogorgia*. Isolated compounds: 20440.
- T3054 *Gossypium barbadense* (Malvaceae); HAI DAO MIAN; Barbados Cotton. Used part: tomentum of seed. TCM Effects: See *Gossypium herbaceum*. TCM Indications: See *Gossypium herbaceum*. Isolated compounds: 8967.
- T3055 *Gossypium herbaceum* (Malvaceae); MIAN HUA; Levant Cotton. Equivalent plant: *Gossypium hirsutum*, *Gossypium barbadense*. Used part: tomentum of seed. TCM Effects: To stanch bleeding. TCM Indications: Blood ejection, hematochezia, flooding, bleeding due to external injury. Isolated compounds: 2318, 8967, 9568, 11238, 11642, 12027, 19187.
- T3056 *Gossypium herbaceum* (Malvaceae); MIAN HUA GEN; Levant Cotton Root. Used part: root cortex. TCM Effects: To relieve cough and calm asthma, free menstruation and relieve pain. TCM Indications: Cough, asthma, bronchitis, menstrual disorder, flooding and spotting. Isolated compounds: 117, 6232, 8967, 9344, 13944, 13946.
- T3057 *Gossypium herbaceum* (Malvaceae); MIAN ZI YOU; Levant Cotton Oil. Used part: seed oil. TCM Effects: To resolve toxin and kill worms. TCM Indications: Malign sore, scab and lichen. Isolated compounds: 8967, 13944.
- T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*] (Malvaceae); LU DI MIAN; Upland Cotton. Used part: tomentum of seed. TCM Effects: See *Gossypium herbaceum*. TCM Indications: See *Gossypium herbaceum*. Isolated compounds: 36, 1866, 8967, 9344, 12432, 17089, 18409, 20392.
- T3059 *Gossypium indicum* (Malvaceae); YIN DU MIAN; Bluntleaf Cotton. Isolated compounds: 8965, 11238.
Gossypium mexicanum = *Gossypium hirsutum*
- T3060 *Gossypium sturtianum* var. *nandewarene* (Malvaceae); NAN DE WA MIAN; Nandewa Cotton*. Isolated compounds: 17056.
- T3061 *Gratiola officinalis* (Scrophulariaceae); YAO SHUI BA JIAO; Gratiola. Isolated compounds: 4320, 4323.
- T3062 *Gratiola* sp. (Scrophulariaceae). Isolated compounds: 4319.

- T3063 *Grevillea robusta* (Proteaceae); YIN HUA; Robust Silk Oak. Used part: leaf and flower. TCM Effects: To clear heat and disinhibit *qi*, quicken blood and relieve pain. TCM Indications: Knocks and falls. Isolated compounds: 8997, 8998, 8999, 9000, 18877, 18877, 18878, 18879, 18880.
- T3064 *Grevillea* spp. (Proteaceae). Isolated compounds: 8997.
Grewia microcos = *Microcos paniculata*
- T3065 *Grindelia* sp. (Asteraceae). Isolated compounds: 21507.
- T3066 *Gryllus chinensis* (Gryllidae); XI SHUAI; Chinese Cricket. Used part: dried body. TCM Effects: To disinhibit urine. TCM Indications: Urinary stoppage, edema, ascites. Isolated compounds: 12200.
- T3067 *Guajacum officinale* (Zygophyllaceae); YU CHUANG MU; Lignum-vitae. Isolated compounds: 9038, 15741.
- T3068 *Guarea rhopalocarpa* (Meliaceae). Isolated compounds: 10310, 12487, 19234, 19235, 19542, 20369.
- T3069 *Guatteria amplifolia* (Annonaceae); DA YE GUA TAI MU. Isolated compounds: 15780, 22818.
- T3070 *Guatteria boliviana* (Annonaceae). Isolated compounds: 1460, 8004, 9072, 12497, 16604, 17146, 18187, 18188, 19753, 21390.
- T3071 *Guatteria dumetorum* (Annonaceae); JING JI GUA TAI MU. Isolated compounds: 4279, 15779.
- T3072 *Guioa crenulata* (Sapindaceae); New Caledonian Guioa*. Isolated compounds: 4228, 4229, 4230, 4231.
- T3073 *Gunnera perpensa* (Haloragaceae); XUAN CHUI GEN NAI LA CAO. Isolated compounds: 10484, 10508, 14592.
- T3074 *Gutierrezia microcephala* (Asteraceae). Isolated compounds: 21711.
- T3075 *Gutierrezia* spp. (Asteraceae). Isolated compounds: 21857.
- T3076 *Gymnadenia albida* (Orchidaceae); BAI SHOU SHEN; European Gymnadenia. Isolated compounds: 16168.
- T3077 *Gymnadenia conopsea* (Orchidaceae); SHOU ZHANG SHEN; Conic Gymnadenia. Equivalent plant: *Coeloglossum viride*. Used part: tuber. TCM Effects: To relieve cough and calm asthma, fortify spleen and boost kidney, rectify *qi* and harmonize blood, relieve pain. TCM Indications: Cough and asthma due to lung vacuity, vacuity taxation with emaciation, neurasthenia, kidney vacuity, limp aching lumbus and knees, impotence, seminal efflux, frequent urination, chronic hepatitis, chronic diarrhea, blood loss, vaginal discharge, scant breast milk, knocks and falls. Isolated compounds: 2165, 2456, 2508, 5905, 9099, 9100, 9101, 9102, 9111, 9112, 9113, 9846, 9848, 13909, 13910, 14154, 14805, 17470.
- T3078 *Gymnadenia* sp. (Orchidaceae). Isolated compounds: 22336.
- T3079 *Gymnaster koraiensis* (Asteraceae); CHAO XIAN LUO WAN. Isolated compounds: 6918, 7951, 9104, 9105, 9106, 9107, 9108, 9109, 9382, 20237.
- T3080 *Gymnema sylvestre* (Asclepiadaceae); CHI GENG TENG; Australian Cowplant. Used part: root or twig. TCM Effects: To dispel wind and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, swelling pain in throat, scrofula, mammary welling abscess, sore and boil, eczema, innominate toxin swelling, poisonous snake bite. Isolated compounds: 2271, 2272, 8647, 8648, 9110, 12981, 16062, 17748, 17749, 20037, 22827.
- T3081 *Gymnopetalum integrifolium* (Cucurbitaceae); FENG GUA; Entireleaf Gymnopetalum. Isolated compounds: 339, 2686, 5386, 12214.
- T3082 *Gynocardia odorata* (Flacourtiaceae); MA DAN GUO; Fragrant Gynocardia. Used part: seed. TCM Effects: To dispel wind, eliminate damp, resolve toxin. TCM Indications: Leprosy, elephantiasis, skin diseases. Isolated compounds: 1465, 9114.
- T3083 *Gynostemma compressum* (Cucurbitaceae); BIAN GUO JIAO GU LAN; Flatfruit Gynostemma. Isolated compounds: 9094, 9095, 9096, 9097.
- T3084 *Gynostemma longipes* (Cucurbitaceae); CHANG GENG JIAO GU LAN; longstalk Gynostemma. Isolated compounds: 9098.
- T3085 *Gynostemma pentaphyllum* (Cucurbitaceae); JIAO GU LAN; Fiveleaf Gynostemma. Used part: whole herb. TCM Effects: To clear heat, supplement vacuity, resolve toxin, lower blood sugar levels, protect hepatic function. TCM Indications: Vacuity and hypodynamia, septicemia, hyperlipemia, viral hepatitis, chronic gastroenteritis, chronic trachitis. Isolated compounds: 520, 521, 522, 4487, 6331, 7427, 8423, 8425, 8427, 9115, 9116, 9117, 9118, 9119, 9120, 9124, 9125, 9126, 9127, 9128, 9129, 9130, 9131, 9132, 9133, 9134, 9135, 9136, 9137, 9138, 9139, 9140, 9141, 9142, 9143, 9144, 9145, 9146, 9147, 9148, 9149, 9150, 9151, 9152, 9153, 9154, 9155, 9156, 9157, 9158, 9159, 9160, 9161, 9162, 9163, 9164, 9165, 9166, 9167, 9168, 9169, 9170, 9171, 9172, 9173, 9174, 9175, 9176, 9177, 9178, 9179, 9180, 9181, 9182, 9958, 13439, 13443, 13444, 13444, 13446, 14415, 14416, 16092, 16093, 16428, 16433, 16594, 19087, 21091, 21092, 21101, 21102, 21103, 21104, 21700, 21701, 21702, 21743.
- T3086 *Gynostemma yixingense* (Cucurbitaceae); HUI GUO JIAO GU LAN; Rostratefruit Gynostemma. Isolated compounds: 8423, 9151, 9153, 11648, 22913, 22914.
- T3087 *Gynura elliptica* (Asteraceae); TUO YUAN SAN QI CAO; Elliptic Gynura*. Isolated compounds: 9121, 9122.
Gynura japonica = *Gynura segetum*
- T3088 *Gynura segetum* [Syn. *Gynura japonica*] (Asteraceae); SAN QI CAO; Gynura. Used part: leaf or whole herb. TCM Effects: To stanch bleeding, dissipate stasis, disperse swelling and relieve pain. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, flooding and spotting, bleeding due to external injury, dysmenorrhea, postpartum stasis stagnation abdominal pain, knocks and falls, wind-damp pain, welling abscess and flat abscess with clove sore, snake or insect bites. Isolated compounds: 383, 424, 2224, 3434, 6204, 9123, 9486, 9735, 9736, 19713, 19983, 19993, 20348, 20361, 20369, 21416, 22336.
- T3089 *Gypsophila acutifolia* (Caryophyllaceae); HUANG JIE GU DAN; Gypsophila. Used part: root. TCM Effects: To dissipate stasis and disperse swelling, engender flesh and relieve pain. TCM Indications: Knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 599.
- T3090 *Gypsophila oldhamiana* (Caryophyllaceae); XIA CAO; Oldham Gypsophila. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 3927, 16026, 21039.
- T3091 *Gypsophila pacifica* (Caryophyllaceae); SHAN YIN CHAI HU; Pacific Gypsophila. Equivalent plant: *Silene jennisensis*, *Arenaria juncea*. Used part: root. TCM Effects: To clear vacuity heat, cool blood. TCM Indications: Yin vacuity tuberculosis, steaming bone tidal

fever, night sweating, child *gan* fever, enduring malaria. Isolated compounds: 9183, 9184.

Gyrophora esculenta = *Umbilicaria esculenta*

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- T3092 *Halenia corniculata* (Gentianaceae); HUA MAO; Corniculate Spurgentian. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Hepatitis, angitis, gastroenteritis, infective fever due to external injury, bleeding due to external injury. Isolated compounds: 10754, 10755, 10802, 22606.
- T3093 *Haliclona variclona* (Haliclonidae); Sponge *Haliclona variclona*. Isolated compounds: 17729.
Haloxylon articulatum ssp. *scoparium* = *Hammada scoparia*
- T3094 *Haloxylon salicornicum* (Chenopodiaceae); YAN JIAO CAO SUO SUO. Isolated compounds: 9200, 9201.
Haloxylon scoparium = *Hammada scoparia*
- T3095 *Hamamelis virginiana* (Hamamelidaceae); MEI ZHOU JIN LV MEI; Virginia Witch Hazel. Isolated compounds: 6923, 9202.
- T3096 *Hammada scoparia* [Syn. *Arthropytum scoparium*; *Haloxylon articulatum* ssp. *scoparium*; *Haloxylon scoparium*] (Chenopodiaceae); Rimth (in Tunisia). Isolated compounds: 11649, 11664, 11671.
- T3097 *Handelia trichophylla* (Asteraceae); TIAN SHAN SHI; Hairyleaf Handelia. Isolated compounds: 3076.
- T3098 *Hannoa undulata* (Simaroubaceae); BO YE KU MU; Undulate-leaf Quassia-wood*. Isolated compounds: 22231.
- T3099 *Haplopappus foliosus*. Isolated compounds: 143, 9924.
- T3100 *Haplophyllum acutifolium* (Rutaceae); JIAN YE YUN XIANG CAO; Haplophyllum*. Isolated compounds: 7830, 9223, 9225, 12374.
- T3101 *Haplophyllum glabrinum* (Rutaceae). Isolated compounds: 9224, 16910.
- T3102 *Haplophyllum hispanicum* (Rutaceae); XI BAN YA YUN XIANG CAO; Spanish Haplophyllum*. TCM Effects: Anticarcinoma. Isolated compounds: 6491.
- T3103 *Haplophyllum patavinum* (Rutaceae). Isolated compounds: 1552, 6490, 11978, 13403, 16703, 22077.
- T3104 *Haplophyllum perforatum* (Rutaceae); DA YE YUN XIANG CAO; Perforated Haplophyllum. Isolated compounds: 6618, 7854, 9223, 9224, 16910.
- T3105 *Haplophyllum* sp. (Rutaceae). Isolated compounds: 7512, 12254.
Haplophyllum tuberculatum = *Ruta tuberculata*
- T3106 *Harpagophytum procumbens* (Pedaliaceae); NAN FEI GOU MA; Devil's Claw. Used part: whole herb. TCM Effects: To relieve pain, eliminate inflammation, resolve heat. TCM Indications: Bronchial asthma, ileitis, ulcerative colitis, rheumatis, abnormal increase of lipoxigenase. Isolated compounds: 8, 306, 580, 2887, 3695, 3711, 4163, 7776, 9238, 11195, 16536, 21475.
- T3107 *Harpullia austro-caledonica* (Sapindaceae); NAN SU GE LAN JIA SHAN LUO; Southern-caledonian Tulipwood*. Isolated compounds: 1553, 1554, 1555, 1559, 8055, 18702, 22835.
- T3108 *Harrisonia abyssinica* (Simaroubaceae); A BI XI NI YA NIU JIN GUO; Abyssinia Harrisonia*. Isolated compounds: 5301, 14125.
- T3109 *Harrisonia perforata* (Simaroubaceae); NIU JIN GUO; Perforated Harrisonia. Used part: root. TCM Effects: To clear heat and interrupt malaria. TCM Indications: Malaria. Isolated compounds: 14125, 16912, 16913, 16914, 16915, 16916.
- T3110 *Harungana madagascariensis* (Clusiaceae); MA DAO HA NI MU; Madagascar Hani-wood*. Used part: bark and leaf. TCM Indications: Hypertension (bark), hepatic disease and anemia (leaf). Isolated compounds: 9240, 9241, 9242, 9243.
- T3111 *Hedera colchica* (Araliaceae); QIU SHUI XIAN CHANG CHUN TENG; Colchicum Ivy*. Isolated compounds: 3913, 3914, 9257, 9258.
- T3112 *Hedera helix* (Araliaceae); YANG CHANG CHUN TENG; English Ivy. Isolated compounds: 3340, 6756, 6772, 9275, 9276, 19316.
- T3113 *Hedera nepalensis* var. *sinensis* (Araliaceae); CHANG CHUN TENG; Chinese Ivy. Equivalent plant: *Hedera rhombea*. Used part: stem-leaf. TCM Effects: To dispel wind and disinherit damp, harmonize blood and resolve toxin. TCM Indications: Wind-damp impediment pain, paralysis, deviated eyes and mouth, spontaneous external bleeding, menstrual disorder, knocks and falls, swelling pain in throat, clove boil and swollen welling abscess, hepatitis, snake or insect bites. Isolated compounds: 2973, 9276, 11083, 11084, 11085.
- T3114 *Hedera pastuchowii* (Araliaceae). Isolated compounds: 16698, 16699, 16700, 16701, 16702.
- T3115 *Hedera rhombea* (Araliaceae); LING XING CHANG CHUN TENG; Japanese Ivy. Used part: stem-leaf. TCM Effects: See *Hedera nepalensis* var. *sinensis*. TCM Indications: See *Hedera nepalensis* var. *sinensis*. Isolated compounds: 19316.
- T3116 *Hedera* sp. (Araliaceae). Isolated compounds: 19545.
- T3117 *Hedera* spp. (Araliaceae). Isolated compounds: 12642.
- T3118 *Hedychium coronarium* (Zingiberaceae); TU QIANG HUO; Coronarius Gingerlily. Used part: rhizome. TCM Effects: To dispel wind and dissipate cold, effuse sweat and resolve exterior. TCM Indications: Headache, generalized pain, wind-damp pain in sinew and bone, knocks and falls. Isolated compounds: 4081, 4082, 4083, 4084, 4085, 4086, 7481, 9277, 9278, 9279, 9280, 9281, 9282, 10157, 10791, 12410, 15499.
- T3119 *Hedychium forrestii* (Zingiberaceae); YUAN BAN JIANG HUA; Forrest Gingerlily. Isolated compounds: 4081, 7914, 9277, 11343, 12418.
- T3120 *Hedychium spicatum* (Zingiberaceae); TU LIANG JIANG; Spiked Gingerlily. Used part: rhizome. TCM Effects: To warm stomach, dissipate cold, dry damp. TCM Indications: *Qi* pain, stomachache, abdominal pain, stomach cold pain, indigestion, malaria. Isolated compounds: 7474, 9277.
- T3121 *Hedychium yunnanense* (Zingiberaceae); DIAN JIANG HUA; Yunnan Gingerlily. Isolated compounds: 9277, 22946, 22947, 22948, 22949.
- T3122 *Hedyotis acutangula* (Rubiaceae); JIN CAO; Acuteangle Hedyotis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit urine. TCM Indications: Hepatitis, swelling pain in throat, red eyes with gall, urinary tract infection. Isolated compounds: 1616, 11234, 20711.
- T3123 *Hedyotis auricularia* (Rubiaceae); ER CAO; Auricled Hedyotis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Common cold with

- fever, lung heat cough, swelling pain in throat, enteritis, dysentery, bleeding from hemorrhoids, flooding and spotting, poisonous snake bite, mastitis, swelling toxin of welling abscess and boil, eczema, knocks and falls. Isolated compounds: 2013.
- T3124 *Hedyotis capitellata* (Rubiaceae); XIAO TOU LIANG HOU CHA; Capitellate Hedyotis. Used part: whole herb. TCM Effects: To dissipate cold and interrupt malaria, nourish blood and free network vessels. TCM Indications: Wind-cold common cold, malaria, menstrual disorder, postpartum galactostasis, dry cough, lacquer sore, fracture with damage. Isolated compounds: 3132, 3133, 3134, 3135, 3629, 4479, 11330, 11363.
- T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*] (Rubiaceae); JIN MAO ER CAO; Goldhair Hedyotis. Used part: whole herb. TCM Effects: To clear heat, eliminate damp, soothe sinews and quicken blood. TCM Indications: Jaundice, edema, chyluria, dysentery, diarrhea, knocks and falls, innominate toxin swelling, mastitis. Isolated compounds: 325, 3629, 9283.
- T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*] (Rubiaceae); SHUI XIAN CAO; Corymbose Hedyotis. Used part: whole herb with root. TCM Effects: See *Oldenlandia diffusa*. TCM Indications: See *Oldenlandia diffusa*. Isolated compounds: 8277, 20369.
Hedyotis diffusa = *Oldenlandia diffusa*
- T3127 *Hedyotis nudicaulis* (Rubiaceae); LUO JING ER CAO; Nude-stem Eargrass*. Isolated compounds: 15858, 15859, 15860.
- T3128 *Hedysarum multijugum* (Fabaceae); HONG HUA YAN HUANG QI; Redflower Sweetvetch. Used part: root. TCM Effects: To boost *qi* and secure exterior, disinhibit urine, draw toxin and expel pus, close sores and engender flesh. TCM Indications: Shortness of breath and palpitation, fatigue hypodynamia, spontaneous sweating and night sweating, enduring diarrhea, prolapse of rectum, prolapse of uterus, vacuity and edema, chronic nephritis, welling abscess and flat abscess. Isolated compounds: 5837.
- T3129 *Hedysarum polybotrys* (Fabaceae); DUO XU YAN HUANG QI; Manyraceme Sweetvetch. Used part: root. TCM Effects: To constrain sweat and secure exterior, supplement *qi* and disinhibit water, draw toxin and close sores. TCM Indications: *Qi* vacuity and hypodynamia, reduced food intake and sloppy stool, prolapse of rectum due to enduring diarrhea, hematochezia, flooding and spotting [=metrorrhagia and metrorrhagia], spontaneous sweating due to exterior vacuity, *qi* vacuity edema, blood vacuity with yellow complexion, enduring welling abscess and flat abscess. Isolated compounds: 1048, 9285.
- T3130 *Heimia myrtifolia* (Asteraceae); HUANG WEI; Myrtleleaf Heimia. Isolated compounds: 22433.
- T3131 *Helonium amarum* (Asteraceae); KU WEI DUI XIN JU; Bitterness Sneezeweed*. Isolated compounds: 1012, 1768, 9289, 20963.
- T3132 *Helonium arizonicum* (Asteraceae); YA LI SANG NA DUI XIN JU; Arizona Sneezeweed*. Isolated compounds: 11734.
- T3133 *Helonium aromaticum* (Asteraceae); FANG XIANG DUI XIN JU; Fragrant Sneezeweed*. Isolated compounds: 1768, 9288.
- T3134 *Helonium autumnale* (Asteraceae); DUI XIN JU; Sneezeweed. Isolated compounds: 2026, 7836, 9288, 9290, 9564, 14822, 17558, 20963.
- T3135 *Helonium autumnale* var. *montanum* (Asteraceae); SHAN DI DUI XIN JU; Mountain Sneezeweed*. Isolated compounds: 2026, 9288.
- T3136 *Helonium bigelovii* (Asteraceae); BI SHI DUI XIN JU; Bigelov Sneezeweed*. Isolated compounds: 11734.
- T3137 *Helonium elegans* (Asteraceae); YA MEI DUI XIN JU; Elegant Sneezeweed*. Isolated compounds: 20963.
- T3138 *Helonium mexicanum* (Asteraceae); MO XI GE DUI XIN JU; Mexico Sneezeweed*. Isolated compounds: 14821.
- T3139 *Helonium microcephalum* (Asteraceae); XIAO TOU DUI XIN JU; Littlehead Sneezeweed. Isolated compounds: 9288, 11450, 14835, 14836, 14837.
- T3140 *Helonium puberulum* (Asteraceae); WEI MAO DUI XIN JU; Puberulent Sneezeweed*. Isolated compounds: 20963.
- T3141 *Helonium tenuifolium* (Asteraceae); XI YE DUI XIN JU; Fine-leaved Sneezeweed. Isolated compounds: 9288, 20963.
- T3142 *Helianthus annuus* (Asteraceae); XIANG RI KUI HUA; Sunflower Flower. Used part: flower. TCM Effects: To dispel wind, calm liver, disinhibit damp. TCM Indications: Dizziness, tinnitus, dribbling urination. Isolated compounds: 9295, 9296, 12952.
- T3143 *Helianthus annuus* (Asteraceae); XIANG RI KUI JING SUI; Sunflower Stem Pith. Used part: stem pith. TCM Effects: To clear heat, disinhibit urine, relieve cough. TCM Indications: Blood strangury, urethral stone, chyluria, inhibited urination. Isolated compounds: 2918, 15363, 19545.
- T3144 *Helianthus annuus* (Asteraceae); XIANG RI KUI YE; Sunflower Leaf. Used part: leaf. TCM Effects: To lower blood pressure, interrupt malaria, resolve toxin. TCM Indications: Hypertension, malaria, clove sore. Isolated compounds: 1336, 2918, 7557, 7786, 8503, 9291, 9293, 9298, 9299, 13133, 13135, 13264, 15363, 19545.
- T3145 *Helianthus annuus* (Asteraceae); XIANG RI KUI ZI; Sunflower Seed. Used part: seed. TCM Effects: To outthrust papules, check dysentery, outthrust welling abscess and pus. TCM Indications: Blood dysentery, welling abscess with pus swelling. Isolated compounds: 2226, 7996, 9291, 9294, 12892, 15634, 18421, 19039, 19545.
- T3146 *Helianthus annuus* cv (Asteraceae); ZAI PEI XIANG RI KUI YE; Cultivated Sunflower Leaf*. Used part: leaf. TCM Effects: To lower blood pressure, interrupt malaria, resolve toxin. TCM Indications: Malaria, clove sore, hypertension. Isolated compounds: 1335, 1337, 1338, 9324, 9325.
- T3147 *Helianthus canescens* (Asteraceae); HUI BAI XIANG RI KUI; Canescent Sunflower*. Isolated compounds: 15634.
- T3148 *Helianthus ciliaris* (Asteraceae); YUAN MAO XIANG RI KUI; Ciliate Sunflower*. Isolated compounds: 2946.
- T3149 *Helianthus maximiliani* (Asteraceae); MA SHI XIANG RI KUI; Maximilian's Sunflower. Isolated compounds: 15634.
- T3150 *Helianthus mollis* (Asteraceae); ROU MAO XIANG RI KUI; Pubescent Sunflower*. Isolated compounds: 7581.
- T3151 *Helianthus niveus* (Asteraceae); XUE BAI XIANG RI KUI; Snowwhite Sunflower*. Isolated compounds: 15634.
- T3152 *Helianthus pumilus* (Asteraceae); AI XIANG RI KUI; Dwarf Sunflower*. Isolated compounds: 4739, 13264.
- T3153 *Helianthus* sp. (Asteraceae). Isolated compounds: 4739.
- T3154 *Helianthus strumosus* (Asteraceae); LIN DI XIANG RI KUI; Woodland Sunflower. Isolated compounds: 107.
- T3155 *Helianthus tuberosus* (Asteraceae); JU YU; Jerusalem Artichoke. Used

- part: tuber or stem-leaf. TCM Effects: To clear heat and cool blood, disperse swelling. TCM Indications: Febrile diseases, intestinal heat bleeding, knocks and falls, swelling pain from fracture. Isolated compounds: 8307, 9291, 14510, 20147.
- T3156 *Helichrysum arenarium* (Asteraceae); SHA SHENG LA JU; Yellow Everlasting. Used part: inflorescence. TCM Indications: Cholecystitis, gallstones. Isolated compounds: 15279.
- T3157 *Helichrysum caespitium* (Asteraceae); NAN FEI CONG SHENG LA JU; South-Africa Tufted Everlasting*. Isolated compounds: 14789.
- T3158 *Helichrysum italicum* (Asteraceae); YI DA LI LA JU; Italian Everlasting*. Isolated compounds: 8865, 10182, 10472, 17403, 21392.
- T3159 *Helichrysum* sp. (Asteraceae). Isolated compounds: 3454, 10775, 17403.
- T3160 *Helichrysum* spp. (Asteraceae). Isolated compounds: 17399.
- T3161 *Helichrysum sutherlandii* (Asteraceae). Isolated compounds: 9305.
- T3162 *Helicia nilagirica* (Proteaceae); SHEN LU SHAN LONG YAN; Nilgiris Helicia. Used part: root. TCM Effects: To astringe intestines and check diarrhea, resolve toxin. TCM Indications: Enteritis and diarrhea, food poisoning, poisoning of mushrooms. Isolated compounds: 9302, 9303.
- T3163 *Helicteres angustifolia* (Sterculiaceae); SHAN ZHI MA; Narrowleaf Screwtree. Used part: whole herb. TCM Effects: To clear heat and resolve exterior, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, headache, thirst, epidemic parotitis, measles papules, dysentery, enteritis, swollen welling abscess, scrofula, sore toxin, eczema, hemorrhoids. Isolated compounds: 13515, 14479, 14480.
- T3164 *Helicteres isora* (Sterculiaceae); HUO SUO MA; Tortedfruit Screwtree. Used part: root. TCM Effects: To move *qi* and relieve pain. TCM Indications: Chronic gastritis, gastric ulcer, ileus, enteritis and diarrhea. Isolated compounds: 11706, 11707, 11708, 11709, 11710, 13126.
- T3165 *Helioniopsis orientalis*. Isolated compounds: 16809.
- T3166 *Heliopsis* sp. (Asteraceae). Isolated compounds: 13594.
- T3167 *Heliotropium amplexicaule* (Boraginaceae); BAO JING TIAN JIE CAI; Clasping Heliotrope. Isolated compounds: 11019.
- T3168 *Heliotropium arguzioides* (Boraginaceae); A GU JI TIAN JIE CAI; Arguzioid Heliotrope*. Isolated compounds: 9320.
- T3169 *Heliotropium curassavicum* (Boraginaceae); YAN TIAN JIE CAI; Curassow Heliotrope*. Isolated compounds: 9320, 12535.
- T3170 *Heliotropium eichwaldii* (Boraginaceae); AI SHI TIAN JIE CAI; Eichwald Heliotrope*. Isolated compounds: 9320.
- T3171 *Heliotropium europaeum* (Boraginaceae); OU ZHOU TIAN JIE CAI; Heliotrope. Isolated compounds: 7636, 9320, 12535.
- T3172 *Heliotropium floridum* var. *latifolium* (Boraginaceae). Isolated compounds: 7834.
- T3173 *Heliotropium hirsutum* (Boraginaceae); YING MAO TIAN JIE CAI; Hairy Heliotrope*. Isolated compounds: 12535.
- T3174 *Heliotropium indicum* (Boraginaceae); DA WEI YAO; Indian Heliotrope. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Pneumonia, pyothorax, sore pharynx, oral ulcer, vesical calculus, swollen welling abscess. Isolated compounds: 437, 6686, 9320, 11019, 11020, 18546, 20488.
- T3175 *Heliotropium lasiocarpum* (Boraginaceae); MAO GUO TIAN JIE CAI; Hairyfruit Heliotrope*. Isolated compounds: 12535.
- T3176 *Heliotropium olgae* (Boraginaceae); AO ER JIA TIAN JIE CAI; Olga Heliotrope*. Isolated compounds: 9320.
- T3177 *Heliotropium ovalifolium* (Boraginaceae); LUAN YE TIAN JIE CAI; Ovateleaf Heliotrope*. Isolated compounds: 9321, 9322.
- T3178 *Heliotropium ramosissimum* (Boraginaceae); DUO ZHI TIAN JIE CAI; Ramose Heliotrope*. Isolated compounds: 9320.
- T3179 *Heliotropium rotundifolium* (Boraginaceae); YUAN YE TIAN JIE CAI; Roundleaf Heliotrope*. Isolated compounds: 7636.
- T3180 *Heliotropium* sp. (Boraginaceae). Isolated compounds: 9318, 17470.
- T3181 *Heliotropium steudneri* (Boraginaceae); SI SHI TIAN JIE CAI; Steudner Heliotrope*. Isolated compounds: 13235.
- T3182 *Heliotropium supinum* (Boraginaceae); YANG XIN TIAN JIE CAI; Supine Heliotrope*. Isolated compounds: 9316, 20488.
- T3183 *Helleborus niger* (Ranunculaceae); TI GEN CAO; Black Hellebore. Isolated compounds: 9329, 9330.
- T3184 *Helleborus odorus* (Ranunculaceae); XIANG TIE KUAI ZI; Odorous Hellebore*. Isolated compounds: 9330.
- T3185 *Helleborus orientalis* var. *hirsutus* (Ranunculaceae); YING MAO TI GEN CAO; Hairy Hellebore*. Isolated compounds: 1178.
- T3186 *Helleborus purpurascens* (Ranunculaceae); ZI TI GEN CAO; Purple Hellebore*. Isolated compounds: 9330.
- T3187 *Helleborus thibetanus* (Ranunculaceae); TIE KUAI ZI; Tibetan Hellebore. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Cystitis, urethritis, swelling toxin of sore and boil, knocks and falls. Isolated compounds: 9329, 9330.
- T3188 *Helleborus torquatus* [Syn. *Helleborus serbicus*] (Ranunculaceae); NIU QU TI GEN CAO; Tortuous Hellebore*. Isolated compounds: 9326, 9327, 9328, 10063, 10064.
- T3189 *Helleborus viridis* (Ranunculaceae); LV TI GEN CAO; Green Hellebore*. Isolated compounds: 18318, 18326, 18331, 18730, 18731.
- T3190 *Helminthostachys zeylanica* (Helminthostachyaceae); RU DI WU GONG; Ceylan Helminthostachys. Used part: rhizome. TCM Effects: To clear lung and transform phlegm, dissipate stasis and resolve toxin. TCM Indications: Cough, asthma, sore pharynx, painful swelling from knocks and falls, welling abscess, poisonous snake bite. Isolated compounds: 10397, 22174, 22175, 22176, 22177, 22178, 22179, 22180, 22181, 22182, 22183, 22184, 22185, 22186, 22187, 22188.
- T3191 *Hemerocallis* sp. (Liliaceae). Isolated compounds: 967.
- T3192 *Hemerocallis citrina* (Liliaceae); HUANG HUA CAI; Citron Daylily. Used part: bud. TCM Effects: To clear heat and disinhibit damp, loosen chest and resolve depression, cool blood and resolve toxin. TCM Indications: Short voidings of reddish urine, jaundice, oppression in chest and vexation in heart, reduced sleep, hematochezia from hemorrhoids, sore and welling abscess. Isolated compounds: 3615.
- T3193 *Hemerocallis fulva* (Liliaceae); XUAN CAO GEN; Orange Daylily. Equivalent plant: *Hemerocallis minor*, *Hemerocallis lilio-asphodelus*. Used part: root. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Edema, jaundice, strangury-turbidity, vaginal discharge,

- spontaneous external bleeding, hematochezia, flooding and spotting, scrofula, mammary welling abscess, galactostasis. Isolated compounds: 3615, 7421, 10151, 14046, 16469, 17392, 18759.
- T3194 *Hemerocallis fulva* var. *kwanso* (Liliaceae); CHONG BAN XUAN CAO; Doublepetalous Daylily*. Isolated compounds: 1048, 9341, 9342.
- T3195 *Hemerocallis lilio-asphodelus* (Liliaceae); BEI HUANG HUA CAI; Yellow Daylily. Used part: root. TCM Effects: See *Hemerocallis fulva*. TCM Indications: See *Hemerocallis fulva*. Isolated compounds: 3615.
- T3196 *Hemerocallis longituba* (Liliaceae); CHANG GUAN XUAN CAO; Longtube Daylily*. Isolated compounds: 1866.
- T3197 *Hemerocallis minor* (Liliaceae); XIAO XUAN CAO GEN; Small Yellow Daylily. Used part: root. TCM Effects: See *Hemerocallis fulva*. TCM Indications: See *Hemerocallis fulva*. Isolated compounds: 3911, 9339, 9340.
- T3198 *Hemerocallis thunbergii* (Liliaceae); SHE XIANG XUAN; Thunberg's Daylily. Isolated compounds: 9339, 18759.
- T3199 *Hemibarbus labeo* (Cyprinidae); CHONG CHUN YU; Skin-carp. Used part: meat. TCM Effects: To supplement *qi* and disinhibit water, dispel wind-damp, strengthen sinews and bones. TCM Indications: Edema, inhibited urination, aching in lumbus and knees, slowness to work. Isolated compounds: 2845.
- T3200 *Hemidesmus indicus* (Asclepiadaceae); YIN DU BA QIA; Anantmul. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit urine and disperse edema, enrich and supplement^[5509]. TCM Indications: febrile diseases, strangury, syphilis, snake bite or scorpion sting^[5509]. Isolated compounds: 5130, 9346.
- T3201 *Hemiphragma heterophyllum* (Scrophulariaceae); BIAN DA XIU QIU; Diversifolious Hemiphragma. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, menstrual block and abdominal pain, scrofula, swelling of sores and damp toxin, sore pharynx, gingiva painful swelling, knocks and falls. Isolated compounds: 9348, 17510.
Hemistepta carthamoides = *Hemistepta lyrata*
- T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*] (Asteraceae); NI HU CAI; Lyrate Hemistepta. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Hemorrhoids and fistulas, swollen welling abscess and clove sores, mammary welling abscess, lymphoditis, wind papule itching, bleeding due to external injury, fracture. Isolated compounds: 9351, 9352, 9353.
- T3203 *Hemsleya amabilis* (Cucurbitaceae); LUO GUO DI; Lovely Hemsleya. Equivalent plant: *Hemsleya macrosperma*. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, toothache, painful red eyes, bacillary dysentery, enteritis, stomachache, hepatitis, urinary tract infection, swelling of clove. Isolated compounds: 5575, 5576.
- T3204 *Hemsleya carnosiflora* (Cucurbitaceae); ROU HUA XUE DAN; Fleshy-flower Hemsleya. Isolated compounds: 3202, 3203, 3204.
- T3205 *Hemsleya dolichocarpa* (Cucurbitaceae); CHANG GUO XUE DAN; Longfruit Hemsleya. Isolated compounds: 5576.
- T3206 *Hemsleya gigantea* (Cucurbitaceae); JU HUA XUE DAN; Giant Hemsleya. Isolated compounds: 9354, 9355.
- T3207 *Hemsleya graciliflora* [Syn. *Alsomitra graciliflora*] (Cucurbitaceae); XI HUA XUE DAN; Smallflower Hemsleya. Isolated compounds: 4316.
- T3208 *Hemsleya macrosperma* (Cucurbitaceae); DA ZI XUE DAN; Largeseed Hemsleya. Used part: tuberoid. TCM Effects: See *Hemsleya amabilis*. TCM Indications: See *Hemsleya amabilis*. Isolated compounds: 5575, 5576.
- T3209 *Hemsleya pengxianensis* (Cucurbitaceae); PENG XIAN XUE DAN; Pengxian Hemsleya. Isolated compounds: 3524, 5575, 5576.
- T3210 *Hemsleya penxianensis* var. *gulinensis* (Cucurbitaceae); GU LIN XUE DAN; Gulin Hemsleya. Isolated compounds: 9357, 9358.
- T3211 *Heracleum canescens* (Apiaceae); HUI BAI DU HUO; Canescent Cowparsnip*. Isolated compounds: 2284, 9419.
- T3212 *Heracleum granatense* (Apiaceae); HONG DU HUO; Red Cowparsnip*. Isolated compounds: 2833.
- T3213 *Heracleum hemsleyanum* (Apiaceae); NIU WEI DU HUO; Hemsley Cowparsnip. Equivalent plant: *Heracleum yungningense*, *Heracleum moellendorffii*. Used part: root. TCM Effects: To dispel wind and dissipate cold, overcome damp and relieve pain. TCM Indications: Common cold, headache, toothache, wind-cold-damp impediment, pain in lumbus and knees, crane's knee wind, disseminated swelling of welling abscess and sores. Isolated compounds: 无.
- T3214 *Heracleum lanatum* (Apiaceae); RUAN MAO DU HUO; Soft-hair Cowparsnip. Used part: root. TCM Effects: See *Angelica pubescens* f. *biserrata*. TCM Indications: See *Angelica pubescens* f. *biserrata*. Isolated compounds: 18086.
- T3215 *Heracleum lanatum* var. *asiaticum* (Apiaceae); YA ZHOU DU HUO; Asian Cowparsnip*. Isolated compounds: 22775.
- T3216 *Heracleum mantegazzianum* (Apiaceae); DA YE NIU FANG FENG; Giant Hogweed. Isolated compounds: 1194, 17077.
Heracleum microcarpum = *Heracleum moellendorffii*
- T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*] (Apiaceae); DUAN MAO DU HUO; Shorthair Cowparsnip. Used part: root. TCM Effects: See *Heracleum hemsleyanum*. TCM Indications: See *Heracleum hemsleyanum*. Isolated compounds: 17375.
- T3218 *Heracleum moellendorffii* var. *paucivittatum* (Apiaceae); ZOU MA QIN; Paucivittat Cowparsnip. Isolated compounds: 14894.
Heracleum morifolium = *Heracleum moellendorffii*
- T3219 *Heracleum nepalense* (Apiaceae); NI BO ER DU HUO; Nepal Cowparsnip. Isolated compounds: 933.
- T3220 *Heracleum pyrenaicum* (Apiaceae); OU ZHOU DU HUO; European Cowparsnip*. Isolated compounds: 2833.
- T3221 *Heracleum rapula* (Apiaceae); BAI YUN HUA; White Cowparsnip*. Used part: root. TCM Effects: To dispel wind and eliminate damp, relieve cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Wind-cold common cold, wind-cold-damp impediment, lumbago, stomachache, abdominal pain, toothache, vacuity cold cough asthma, leukorrhea, amenorrhea and dysmenorrhea, mounting *qi*, stasis swelling from knocks and falls. Isolated compounds: 1510, 5535, 13571.
- T3222 *Heracleum scabridum* (Apiaceae); DIAN BAI ZHI; Scabrous

- Cowparsnip. Used part: root. TCM Effects: To dispel wind and effuse sweat, dissipate cold and dry damp. TCM Indications: Wind-cold common cold, headache, cough and asthma, deep-source nasal congestion, cold pain in stomach duct and abdomen, wind-cold-damp impediment, cold-damp vaginal discharge, dysmenorrhea, toxin swelling of sores, wind papule itching. Isolated compounds: 17375.
- T3223 *Heracleum* sp. (Apiaceae). Isolated compounds: 2309, 22195.
- T3224 *Heracleum sphondylium* (Apiaceae); NIU FANG FENG; Hogweed. Isolated compounds: 17375, 22774.
- T3225 *Heracleum* spp. (Apiaceae). Isolated compounds: 17375.
- T3226 *Heracleum thomsoni* (Apiaceae); TANG MU XUN DU HUO; Thomson Cowparsnip*. Isolated compounds: 1536.
- T3227 *Heracleum wallichii* (Apiaceae); WA SHI DU HUO; Wallich Cowparsnip*. Isolated compounds: 4461, 11329.
- T3228 *Heracleum yungningense* (Apiaceae); YONG NING DU HUO; Yungning Cowparsnip. Used part: root. TCM Effects: See *Heracleum hemsleyanum*. TCM Indications: See *Heracleum hemsleyanum*. Isolated compounds: 1191, 11249, 11589, 11601, 17375, 20156, 20280, 22953, 22954, 22955, 22956.
- T3229 *Heridium erinaceus* [Syn. *Hydnum erinaceus*] (Hydnaceae); HOU TOU JUN; Bearded Tooth Carphophore. Used part: sporocarp. TCM Effects: To fortify spleen and nourish stomach, quiet spirit, anticancer. TCM Indications: Vacuity and hypodynamia, indigestion, insomnia, gastric ulcer, duodenal ulcer, chronic gastritis, carcinoma in digestive tract. Isolated compounds: 7259, 7260, 7261, 7262, 7263, 7264, 7265, 9429, 9430, 9431, 9432, 9433, 9434, 9435, 9436, 9437, 9438, 9439, 10055, 22850.
- T3230 *Hernandia nymphaeifolia* (Hernandiaceae); SHUI LIAN YE TONG; Sleeping Lotusleafung. Isolated compounds: 6268, 15879, 16282, 16283, 16343.
Hernandia ovigera = *Hernandia sonora*
- T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*] (Hernandiaceae); LIAN YE TONG; Lotusleafung. Used part: leaf or seed. TCM Effects: To drain precipitation and free stool, anticancer. TCM Indications: Constipation, malignant tumor (therioma), nervous system diseases, cardiovascular diseases. Isolated compounds: 1426, 4056, 5543, 6832, 7180, 8814, 9440, 9443, 9451, 9453, 9454, 13945, 14251, 14483, 17342.
- T3232 *Heterocentron roseum*. Isolated compounds: 15642.
- T3233 *Heteropappus altaicus* (Asteraceae); A ER TAI ZI WAN; Altai Heteropappus. Used part: whole herb. TCM Effects: To clear heat and downbear fire, expel pus and relieve cough. TCM Indications: Febrile diseases, liver gallbladder effulgent fire, pulmonary welling abscess, hacking of pus blood, cystitis, zoster, sore and boil. Isolated compounds: 5088.
- T3234 *Heteropogon contortus* (Poaceae); DI JIN; Contorted Tanglehead. Used part: rhizome or whole herb. TCM Effects: To clear heat and allay thirst, dispel wind and eliminate damp. TCM Indications: Diabetes mellitus due to internal heat, wind-damp impediment pain, cough, vomiting and diarrhea. Isolated compounds: 11085.
- T3235 *Heteroscyphus billardieri* (Lophocoleaceae). Isolated compounds: 7194, 9923, 18915.
- T3236 *Hevea brasiliensis* (Euphorbiaceae); XIANG JIAO SHU; Para Rubbertree. Isolated compounds: 18304.
- T3237 *Hexalobus crispiflorus* (Annonaceae); FEI ZHOU FAN LI ZHI; African Custard Apple*. Isolated compounds: 15797.
Hibiscus abelmoschus = *Abelmoschus moschatus*
- T3238 *Hibiscus cannabinus* (Malvaceae); DA MA JIN; Kenaf Hibiscus. Isolated compounds: 3054, 6352, 9013, 9014.
- T3239 *Hibiscus elatus* (Malvaceae); GAO HONG JIN; Tall Hibiscus. Isolated compounds: 8863.
- T3240 *Hibiscus esculentus* (Malvaceae); KA FEI HUANG KUI; Edible Abelmoschus. Used part: root, leaf, flower or seed. TCM Effects: To disinhibit throat, free strangury, promote lactation, regulate menstruation. TCM Indications: Sore swollen throat, dribbling and inhibited voidings of urination, postpartum scant milk, menstrual disorder. Isolated compounds: 4442.
- T3241 *Hibiscus mutabilis* (Malvaceae); MU FU RONG HUA; Cottonrose Hibiscus Flower. Used part: flower. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, disperse swelling and expel pus. TCM Indications: Lung heat cough, blood ejection, red eyes with gall, flooding and spotting, vaginal discharge, diarrhea, abdominal pain, swollen welling abscess, sore and boil, poisonous insect stings, burns and scalds, knocks and falls. Isolated compounds: 4447, 4451, 18368.
Hibiscus populneus = *Thespesia populnea*
- T3242 *Hibiscus rosa-sinensis* (Malvaceae); FU SANG HUA; Chinese Hibiscus Flower. Used part: flower. TCM Effects: To clear lung, cool blood, transform damp, resolve toxin. TCM Indications: Lung heat cough, hemoptysis, nosebleed(epistaxis), flooding and spotting, vaginal discharge, dysentery, red and white turbidity, swelling toxin of welling abscess and sore. Isolated compounds: 4449, 18342, 18345.
- T3243 *Hibiscus rosa-sinensis* (Malvaceae); FU SANG YE; Chinese Hibiscus Leaf. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Vaginal discharge, strangury syndrome, swelling toxin of clove sore, parotitis, mastitis, lymphnitis. Isolated compounds: 20713.
- T3244 *Hibiscus syriacus* (Malvaceae); MU JIN HUA; Shrubalthea Flower. Used part: flower. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Intestinal wind bleeding, red and white dysentery, bleeding from hemorrhoids, lung heat cough, hemoptysis, vaginal discharge, swollen welling abscess, sore and boil, scalds. Isolated compounds: 3829, 3831, 3832, 10038, 10786, 16901, 19331, 19542.
- T3245 *Hibiscus syriacus* (Malvaceae); MU JIN PI; Shrubalthea Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, kill worms and relieve itch. TCM Indications: Damp-heat diarrhea dysentery, intestinal wind bleeding, prolapse of rectum, hemorrhoids, red and white vaginal discharge, trichomoniasis, scab and lichen, scrotal eczema. Isolated compounds: 2056, 6536, 15935, 19983, 20439.
- T3246 *Hibiscus syriacus* (Malvaceae); MU JIN ZI; Shrubalthea Fruit. Used part: fruit. TCM Effects: To clear lung and transform phlegm, relieve headache, resolve toxin. TCM Indications: Cough of phlegm asthma, bronchitis, headache, yellow-water sore, eczema. Isolated compounds: 13455, 20328, 21412, 21413, 21415, 22559, 22560.
- T3247 *Hibiscus taiwanensis* (Malvaceae); TAI WAN FU RONG; Taiwan

- Hibiscus. Used part: root and stem. TCM Effects: To clear lung and relieve cough, cool blood and resolve toxin. TCM Indications: Lung heat cough, toxin swelling of sores. Isolated compounds: 2224, 2527, 2887, 3829, 3831, 4135, 7768, 7788, 7789, 7895, 8863, 9481, 9535, 9536, 9537, 9538, 9539, 9818, 12801, 13515, 13518, 14205, 14254, 14442, 14443, 14447, 14804, 15169, 16402, 19540, 19542, 19910, 19983, 19987, 20369, 20554, 20556, 20566, 22208, 22332, 22336.
- T3248 *Hibiscus tiliaceus* (Malvaceae); HUANG JIN; Linden Hibiscus. Used part: leaf, bark or flower. TCM Effects: To clear lung and relieve cough, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, swelling pain of sore and boil, cassava poisoning. Isolated compounds: 12501.
- T3249 *Hibiscus vitifolius* (Malvaceae); PU TAO YE MU JIN; Grapeleaf Hibiscus*. Isolated compounds: 8965.
- T3250 *Hierochloe odorata* (Poaceae); MAO XIANG HUA; Vanillagrass. Used part: inflorescence. TCM Effects: To warm stomach, check vomiting. TCM Indications: Cold pain in heart and abdomen. Isolated compounds: 4142.
- T3251 *Himatanthus sucuuba* (Apocynaceae); SU KU BA DOU HUA; Bellaco-Caspi. Isolated compounds: 1114, 13100, 13101, 13102, 20202.
- T3252 *Hippomane mancinella* (Euphorbiaceae); MA FENG MU; Manchineel. Isolated compounds: 13476, 22778.
- T3253 *Hippophae neurocarpa* (Elaeagnaceae); LEI GUO SHA JI; Veinfruit Seabuckthorn. Isolated compounds: 19087.
- T3254 *Hippophae rhamnoides* (Elaeagnaceae); CU LIU GUO; Seabuckthorn Fruit. Equivalent plant: *Hippophae rhamnoides* subsp. *sinensis*, *Hippophae rhamnoides* subsp. *yunnanensis*. Used part: fruit. TCM Effects: To relieve cough and transform phlegm, fortify stomach and disperse food, quicken blood and dissipate stasis. TCM Indications: Cough with profuse phlegm, pulmonary welling abscess, indigestion, food accumulation abdominal pain, stomachache, enteritis, amenorrhea, stasis swelling from knocks and falls. Isolated compounds: 1113, 1598, 1845, 1935, 3040, 3138, 3139, 3140, 3211, 3296, 3308, 3551, 3766, 5499, 5500, 6047, 7852, 7853, 8095, 9234, 9236, 9345, 9486, 10160, 10591, 10784, 11648, 12020, 12569, 12891, 12893, 13419, 15170, 15203, 16285, 16561, 18317, 18656, 19087, 19983, 20280, 20369, 20444, 20715, 21415, 22554, 22556, 22559, 22560, 22561, 22562, 22563, 22976.
- T3255 *Hippophae rhamnoides* subsp. *gyantsensis* (Elaeagnaceae); JIANG ZI SHA JI; Jiangzi Seabuckthorn*. Isolated compounds: 19087.
- T3256 *Hippophae rhamnoides* subsp. *sinensis* (Elaeagnaceae); ZHONG GUO SHA JI; Chinese Seabuckthorn*. Used part: fruit. TCM Effects: See *Hippophae rhamnoides*. TCM Indications: See *Hippophae rhamnoides*. Isolated compounds: 11648, 18317, 19087.
- T3257 *Hippophae rhamnoides* subsp. *turkestanica* (Elaeagnaceae); ZHONG YA SHA JI; Central Asia Seabuckthorn*. Isolated compounds: 18317, 19087.
- T3258 *Hippophae rhamnoides* subsp. *yunnanensis* (Elaeagnaceae); YUN NAN SHA JI; Yunnan Seabuckthorn*. Used part: fruit. TCM Effects: See *Hippophae rhamnoides*. TCM Indications: See *Hippophae rhamnoides*. Isolated compounds: 19087.
- T3259 *Hippophae thibetana* (Elaeagnaceae); XI ZANG SHA JI; Tibet Seabuckthorn. Isolated compounds: 19087.
- T3260 *Histiopteris incisa* (Dennstaedtiaceae); LI JUE; Incised Histiopteris. Isolated compounds: 18125, 18152.
- T3261 *Hodgkinsonia frutescens* (Cucurbitaceae). Isolated compounds: 18295, 18296.
- T3262 *Holarrhena africana* (Apocynaceae); FEI ZHOU ZHI XIE MU; African Holarrhena*. Isolated compounds: 3968, 9578, 9585.
- T3263 *Holarrhena antidyenterica* (Apocynaceae); ZHI XIE MU PI; Droughtdysentery Holarrhena Bark. Used part: bark. TCM Effects: To move *qi* and check diarrhea, kill worms. TCM Indications: Dysentery, gastrointestinal flatulence. Isolated compounds: 3959, 3961, 3966, 3967, 3968, 3989, 3991, 5562, 5563, 6873, 6931, 9576, 9577, 9578, 9579, 9580, 9581, 9582, 9583, 9584, 9585, 9586, 9587, 9591, 9932, 9937, 10547, 11340, 12345, 12346, 12347, 12348, 12349, 12350, 14350, 16659, 18585, 18586, 18587, 21196.
- T3264 *Holarrhena congolensis* (Apocynaceae); GANG GUO HE ZHI XIE MU; Congo Holarrhena*. Isolated compounds: 3968, 8010, 9584.
- T3265 *Holarrhena febrifuga* (Apocynaceae); TUI RE ZHI XIE MU; Febrifuge Holarrhena*. Isolated compounds: 3968, 8010, 9587, 11340.
- T3266 *Holarrhena floribunda* (Apocynaceae); FAN HUA ZHI XIE MU; Purplequeen Holarrhena*. Isolated compounds: 3968.
- T3267 *Holarrhena mitis* (Apocynaceae); WEN ROU ZHI XIE MU; Suave Holarrhena*. Isolated compounds: 3968, 9584, 9587, 21511.
- T3268 *Holarrhena pubescens* (Apocynaceae); DUAN ROU MAO ZHI XIE MU; Shortfluff Holarrhena*. Isolated compounds: 273, 3968, 6469, 10557, 12347.
- T3269 *Holarrhena waltsbergii* (Apocynaceae); WO SHI ZHI XIE MU; Waltsberg Holarrhena*. Isolated compounds: 3968.
- T3270 *Holboellia fargesii* (Lardizabalaceae); WU YE GUA TENG; Farges Holboellia. Used part: fruit. TCM Effects: To clear heat and disinhibit damp, quicken blood and free vessels, move *qi* and relieve pain. TCM Indications: short voidings of reddish urine, strangury-turbidity, edema, wind-damp impediment pain, knocks and falls, breast milk stoppage, mounting *qi* (hernia), prolapse of uterus, testitis. Isolated compounds: 7723, 7724, 7725, 7726, 7727.
- T3271 *Holoptelea integrifolia* (Ulmaceae); YIN MIAN YU; Vellayim. Isolated compounds: 12569.
- T3272 *Holostylis reniformis* (Aristolochiaceae). Isolated compounds: 1709, 1730, 6830, 6831, 6932, 6933, 9592, 14393, 19615, 19616.
- T3273 *Homalanthus acuminatus* (Euphorbiaceae); JIAN JIAN AO YANG; Acuminate Aussiepoplar*. Isolated compounds: 17958.
- T3274 *Homalanthus nutans* (Euphorbiaceae); XIA CHUI AO YANG; Nutant Aussiepoplar*. Isolated compounds: 17958.
- T3275 *Homalium cochinchinensis* (Samydaceae); TIAN LIAO MU; Cochinchina Homalium. Isolated compounds: 2224, 3874, 3875, 3876, 3877, 21508, 21509, 21510.
- T3276 *Homo sapiens* (Hominidae); REN NIAO; Human Urine. Used part: human urine. TCM Effects: To enrich *yin* and downbear fire, stanch bleeding and disperse stasis. TCM Indications: *Yin* vacuity fever, taxation damage hemoptysis, blood ejection, spontaneous external bleeding, postpartum blood stasis, blood dizziness, knocks and falls, pain of blood stasis. Isolated compounds: 1160, 4223, 5153, 5164, 9548, 9937, 11220, 22246, 22251, 22259.

- T3277 *Homo sapiens* (Hominidae); REN ZHONG BAI; Human Urine Sediment. Used part: sediment of human urine. TCM Effects: To clear heat, downbear fire, disperse stasis. TCM Indications: Taxation fever, lung wilting, spontaneous external bleeding, blood ejection, throat impediment, *gan* of teeth and gum, mouth sore, tongue sores. Isolated compounds: 22246, 22251.
- T3278 *Homo sapiens* (Hominidae); XUE YU; Human Hair. Used part: human hair. TCM Effects: To dispel stasis and stanch bleeding. TCM Indications: Blood ejection, nosebleed(epistaxis), gum hemorrhage, blood dysentery, blood strangury, flooding and spotting. Isolated compounds: 13659.
- T3279 *Homo sapiens* (Hominidae); ZI HE CHE; Human Placenta. Used part: human placenta. TCM Effects: To supplement *qi*, nourish blood, boost essence. TCM Indications: Vacuity detriment, marked emaciation, steaming bone taxation fever, cough and asthma, hemoptysis, night sweating, emission, impotence, *qi*-blood depletion, infertility, scant breast milk. Isolated compounds: 1170, 4097, 4887, 5163, 7383, 7384, 7386, 7387, 17804, 17901.
- T3280 *Hopea parviflora* (Dipterocarpaceae); XIAO HUA PO LEI; Kongu. Isolated compounds: 1076, 2124, 16678.
- T3281 *Hopea utilis* (Dipterocarpaceae); YOU YONG PO LEI; Utilizable Hopea*. Isolated compounds: 9636, 18649.
- T3282 *Hordeum vulgare* (Poaceae); MAI YA; Barley Germinating Fruit. Used part: germinated fruit. TCM Effects: To disperse food and transform accumulation, terminate lactation. TCM Indications: Food accumulation, abdominal distention and diarrhea, nausea and vomiting, inappetence, galactostasis, distending pain in breast. Isolated compounds: 3070, 8971, 9467, 9644, 9645, 9646, 13439, 18230, 20147, 22058, 22158.
- T3283 *Hosta sieboldiana* (Liliaceae); DA YU BIAO HUA; Shortclustered Plantainlily. Used part: root or flower. TCM Effects: To clear heat and resolve toxin, rectify *qi*. TCM Indications: Sore toxin, headache. Isolated compounds: 8457.
- T3284 *Houttuynia cordata* (Saururaceae); YU XING CAO; Heartleaf Houttuynia. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, expel pus and disinhibit urine. TCM Indications: Pulmonary welling abscess with hacking of pus and blood, lung heat phlegm cough, pneumonia, chronic bronchitis, urinary tract infection, odynuria, chronic uterine cervical infection, leptospirosis, otitis media, cystitis, dysentery, mastitis, heat toxin sores, heat strangury. Isolated compounds: 336, 1695, 3045, 3138, 3242, 3409, 3551, 4833, 4837, 5462, 9486, 10887, 11642, 12082, 12570, 12849, 12891, 13474, 13475, 14623, 15146, 15725, 15816, 17376, 17463, 18317, 18411, 19087, 19397, 19405, 19406, 19983, 20280, 22615.
- T3285 *Hovenia dulcis* (Rhamnaceae); ZHI JU GEN; Japanese Raisin Tree Root. Used part: root. TCM Effects: To dispel wind and quicken network vessels, stanch bleeding, resolve liquor. TCM Indications: Vacuity taxation blood ejection, wind-damp pain in sinew and bone. Isolated compounds: 7938, 9653.
- T3286 *Hovenia dulcis* (Rhamnaceae); ZHI JU ZI; Japanese Raisin Tree Seed. Used part: fruit or seed. TCM Effects: To resolve liquor toxin, eliminate vexation and allay thirst, check vomiting, disinhibit urine and free stool. TCM Indications: Drunkenness, vexation and thirst, vomiting, inhibited urine and stool. Isolated compounds: 1074, 1764, 9652, 16847.
- T3287 *Huechys sanguinea* (Cicadidae); HONG NIANG ZI; Red Lady-bug. Used part: dried body. TCM Effects: To break stasis, dissipate binds, attack toxin. TCM Indications: Scrofula, amenorrhea due to blood stasis, lumbago, infertility, lichen sore, rabid dog bite. Isolated compounds: 3094.
- T3288 *Humulus japonicus* [Syn. *Humulus scandens*] (Moraceae); LV CAO; Japanese Hop. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and free strangury. TCM Indications: Tuberculosis, cystitis, mastitis, tonsillitis, lung heat cough, pulmonary welling abscess, vacuity heat with vexation and thirst, heat strangury, edema, inhibited urination, damp-heat diarrhea dysentery, heat toxin sores, itchy skin. Isolated compounds: 3674, 4029, 13109, 22581.
- T3289 *Humulus lupulus* (Moraceae); PI JIU HUA; European Hop Female-flower. Used part: female-flower. TCM Effects: To fortify stomach and disperse food, disinhibit urine and quiet spirit, eliminate inflammation. TCM Indications: Indigestion, abdominal distention, edema, cystitis, tuberculosis, cough, insomnia, leprosy. Isolated compounds: 628, 2936, 3241, 3242, 4076, 4819, 5261, 5262, 5263, 5742, 5743, 5911, 6497, 9657, 9665, 9669, 9670, 9671, 9672, 9675, 9676, 9677, 9678, 9815, 10830, 11248, 11459, 11460, 11754, 11783, 12714, 13109, 13110, 13111, 13112, 13113, 13114, 13115, 14176, 17808, 17839, 17843, 19681, 19987, 21599, 22761, 22762, 22763, 22764, 22765, 22766, 22767.
- Humulus scandens* = *Humulus japonicus*
- T3290 *Hunnemannia* spp. (Papaveraceae). Isolated compounds: 3498.
- T3291 *Hunteria elliptica* (Apocynaceae). Isolated compounds: 12268.
- T3292 *Hunteria zeylanica* (Apocynaceae); ZI LAN SHU; Ceylon Hunteria. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Painful swelling from knocks and falls, poisonous snake bites. Isolated compounds: 12268.
- T3293 *Huperzia miyoshiana* (Huperziaceae); DONG BEI SHI SHAN; Northeast Clubmoss*. Isolated compounds: 3813, 6956, 7805, 13191, 13223, 13225, 13229.
- T3294 *Huperzia selago* [Syn. *Lycopodium selago*] (Huperziaceae); XIAO JIE JIN CAO; Selago-like Climbing Fern. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain, stanch bleeding. TCM Indications: Wind-damp impediment pain, knocks and falls, bleeding due to external injury, urticaria. Isolated compounds: 567, 7768, 9686, 10170, 13191, 13223, 15889, 15890, 18062, 19675.
- T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*] (Huperziaceae); QIAN CENG TA; Serrate Clubmoss. Used part: whole herb. TCM Effects: To abate fever, eliminate damp, disperse stasis, stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung abscess, pneumonia, cor pulmonale, taxation damage and blood ejection, bleeding from hemorrhoids, vaginal discharge, knocks and falls, toxin swelling, hematuria, cold-damp ascites, enduring sores, scalds. Isolated compounds: 459, 4748, 6116, 6117, 6118, 6119, 6120, 6121, 6122, 7017, 7142, 7143, 7144, 7168, 9686, 9687, 9688, 9689, 9690, 10644, 10699, 10700, 10701, 10703, 10704, 10705, 10706, 10707, 10708, 12400, 13046, 13177, 13187, 13190, 13191, 13225, 13226, 13227,

- 13228, 13229, 13230, 13231, 13232, 13233, 13234, 14493, 15407, 16313, 16321, 16322, 16354, 16355, 16421, 19766, 19768, 19769, 19770, 19771, 19772, 19773, 19774, 21424, 21425.
- T3296 *Hura crepitans* (Euphorbiaceae); SHA HE SHU; Sandbox-tree. Isolated compounds: 9691.
- T3297 *Hyacinthus orientalis* (Liliaceae); FENG XIN ZI; Common Hyacinth. Isolated compounds: 9696.
- T3298 *Hyacinthus* sp. (Liliaceae). Isolated compounds: 3693.
- T3299 *Hydnellum caeruleum* (Thelephoraceae); LAN SE YA CHI JUN; Inedible Mushroom. Isolated compounds: 21301, 21302, 21303, 21304, 21305, 21306.
- T3300 *Hydnocarpus anthelminticus* (Flacourtiaceae); DA FENG ZI; Chaulmoogratree Seed. Used part: seed. TCM Effects: To dispel wind and dry damp, attack toxin and kill worms. TCM Indications: Numbing wind, scab and lichen, red bayberry sore. Isolated compounds: 883, 884, 885, 3485, 8955, 9697.
- T3301 *Hydnocarpus wightiana* (Flacourtiaceae); WEI SHI DA FENG ZI; Wightiana Chaulmoogratree Seed*. Isolated compounds: 15409.
Hydnum erinaceus = *Hericium erinaceus*
- T3302 *Hydnum repandum* (Hydnaceae); MEI WEI CHI JUN; Sweet Tooth. Isolated compounds: 19357, 19358.
- T3303 *Hydrangea chinensis* (Saxifragaceae); ZHONG GUO XIU QIU; Chinese Hydrangea. Used part: root. TCM Effects: To interrupt malaria, quicken blood and relieve pain, clear heat and disinhibit urine. TCM Indications: Knocks and falls, fracture, malaria, headache, measles papules, dribbling pain of urination. Isolated compounds: 4648, 9452, 9698, 9700, 9701, 9815, 9944, 11234, 14254, 18420, 19983, 19987, 20554, 22195.
- T3304 *Hydrangea macrophylla* (Saxifragaceae); BA XIAN HUA; Largeleaf Hydrangea. Used part: root, leaf and flower. TCM Effects: To interrupt malaria. TCM Indications: Malaria, fright palpitation due to heart heat, vexation and agitation. Isolated compounds: 4647, 4648, 9699, 9700, 13084, 13085.
- T3305 *Hydrangea macrophylla* var. *thunbergii* (Saxifragaceae); SE BO GE XIU QIU; Thunberg Hydrangea*. Isolated compounds: 9700, 17225.
- T3306 *Hydrangea paniculata* (Saxifragaceae); FEN TUAN HUA; Paniculate Hydrangea. Used part: flower. TCM Effects: To disperse damp, break blood. TCM Indications: Scrotal wind. Isolated compounds: 8078, 22195.
- T3307 *Hydrangea* sp. (Saxifragaceae). Isolated compounds: 12950.
- T3308 *Hydrangea umbellata* (Saxifragaceae); SAN XING XIU QIU; Umbellate Hydrangea. Used part: root. TCM Effects: To interrupt malaria, disperse food, clear heat and resolve toxin, dispel phlegm and dissipate binds. TCM Indications: Malaria, food accumulation abdominal distention, swelling pain in throat, skin lichen *lai*, swelling toxin of sore and boil, goiter and tuberculosis. Isolated compounds: 5435.
- T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal. Isolated compounds: 2302, 2303, 3055, 3057, 3058, 6366, 9702, 9703, 11348, 14567, 19985.
- T3310 *Hydroclathrus tenuis* (Scytosiphonaceae); BO YE WANG YI ZAO. Isolated compounds: 2436.
- T3311 *Hydrocotyle sibthorpioides* (Apiaceae); TIAN HU SUI; Lawn Pennywort. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Jaundice, dysentery, edema, strangury, eye screen, throat swelling, swelling toxin of welling abscess and sore, zoster, knocks and falls. Isolated compounds: 4140, 9710, 9711, 9712, 9713, 9714, 9715, 9716, 18332, 22173.
- T3312 *Hygrophorus latitabundus* (Hygrophoraceae). Isolated compounds: 433, 434, 435, 436, 5339, 5340, 5341, 10840.
- T3313 *Hygrophorus olivaceoalbus* (Hygrophoraceae); Slimysheathed Waxy Cap 橄欖白蜡伞. Isolated compounds: 430, 431, 5338, 10837, 10838, 21536.
- T3314 *Hygrophorus persoonii* (Hygrophoraceae). Isolated compounds: 426, 427, 428, 429, 5336, 5337, 5920, 10836, 10841, 10842, 21535.
- T3315 *Hygrophorus pustulatus* (Hygrophoraceae). Isolated compounds: 432, 10839.
- T3316 *Hylomecon japonica* (Papaveraceae); HE QING HUA; Japanese Hylomecon. Used part: root and rhizome. TCM Effects: To dispel wind and free network vessels, dissipate stasis and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 930, 3498, 3502, 3507, 3508, 4290, 19284, 20416.
- T3317 *Hylomecon* spp. (Papaveraceae). Isolated compounds: 3498.
- T3318 *Hylotelephium mingjinianum* (Crassulaceae); ZI HUA JING TIAN; Purpleflower Stonecrop. Used part: whole herb. TCM Effects: To quicken blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Blood ejection, sprain, taxation damage in lumbar muscle, scalds, poisonous snake bite, zoster, indigestion. Isolated compounds: 5763, 12083, 14872, 14873.
Hymenocallis americana = *Hymenocallis littoralis*
- T3319 *Hymenocallis arenicola* (Amaryllidaceae); SHA SHENG SHUI GUI JIAO; Arenaceous Hymenocallis*. Isolated compounds: 3197.
- T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*] (Amaryllidaceae); SHUI GUI JIAO YE; Tropical American Hymenocallis Leaf. Used part: leaf. TCM Effects: To soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Painful swelling from knocks and falls, pain in joints due to rheumatism, hemorrhoids. Isolated compounds: 13241, 19618, 20891.
- T3321 *Hymenocallis rotata* (Amaryllidaceae); FU ZHUANG SHUI GUI JIAO; Rotate Hymenocallis*. Isolated compounds: 15750.
- T3322 *Hymenoclea salsola* (Asteraceae); MEI GUO HAI MO JU; Burro Bush. Isolated compounds: 1029, 4087, 10843.
- T3323 *Hymenodictyon excelsum* (Rubiaceae); TU LIAN QIAO; Tall Hymenodictyon. Used part: bark. TCM Effects: To clear heat and resolve toxin, suppress cough and interrupt malaria. TCM Indications: Malaria, malign malaria, common cold, ardent fever, cough with profuse phlegm. Isolated compounds: 664, 1359, 2299, 4622, 13041, 14124, 14974, 15734, 18998, 18999.
- T3324 *Hymenophyllum barbatum* (Hymenophyllaceae); MO JUE; Barbate Filmy Fern. Used part: whole herb. TCM Effects: To stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 8689, 10844, 10845, 10846, 10847, 10848, 10849, 10850, 10851, 10852, 10853, 10854, 10855, 10856, 10857, 10858, 10859, 10860,

- 10861, 10862, 10863, 10864, 10865, 10866, 14505.
- T3325 *Hymenoxys grandiflora* (Compositae); MO ZHI JU. TCM Effects: Anticarcinoma. Isolated compounds: 16733.
- T3326 *Hymenoxys odorata* (Compositae); XIANG MO ZHI JU. TCM Effects: Anticarcinoma. Isolated compounds: 15991, 16733.
- T3327 *Hyoscyamus niger* (Solanaceae); LANG DANG GEN; Black Henbane Root. Used part: root. TCM Effects: To interrupt malaria, kill worms, attack toxin. TCM Indications: Malaria, lichen and Scab sore. Isolated compounds: 1526, 21195, 22050.
- T3328 *Hyoscyamus niger* (Solanaceae); LANG DANG YE; Black Henbane Leaf. Used part: leaf. TCM Effects: To settle pain and resolve tetany. TCM Indications: Pain in stomach duct and abdomen, toothache, cough and asthma. Isolated compounds: 2001, 10870, 10872.
- T3329 *Hyoscyamus niger* (Solanaceae); LANG DANG ZI; Black Henbane Seed. Used part: ripe seed. TCM Effects: To resolve spasm and relieve pain, quiet heart and settle epilepsy. TCM Indications: Pain in stomach duct and abdomen, wind-damp impediment pain, decayed toothache due to wind, painful wound from knocks and falls, incessant asthma and cough, prolapse of rectum due to diarrhea, mania and withdrawal, fright epilepsy, swelling toxin of welling abscess and sore. Isolated compounds: 1287, 1526, 2001, 2218, 3087, 3088, 3829, 3830, 4417, 4680, 7788, 8814, 9013, 9486, 10870, 10871, 10872, 10874, 15203, 15944, 15945, 15946, 15951, 16066, 19087, 19983, 20280, 21037, 21195, 22332, 22376.
- T3330 *Hyoscyamus orientalis* (Solanaceae); DONG FANG TIAN XIAN ZI; Oriental Henbane*. Isolated compounds: 1526.
- T3331 *Hyoscyamus* spp. (Solanaceae). Isolated compounds: 10870.
- T3332 *Hypecoum erectum* (Papaveraceae); ZHI LI JIAO HUI XIANG; Erect Hypecoum. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough and relieve pain. TCM Indications: Common cold with fever, cough, swelling pain in throat, liver fire and red eyes, hepatitis, cholecystitis, dysentery, pain in joints. Isolated compounds: 10878, 10879, 10882, 14209.
- T3333 *Hypecoum japonicum* (Papaveraceae); DI TANG CAO; Japanese Hypecoum*. Isolated compounds: 4032.
- T3334 *Hypecoum leptocarpum* (Papaveraceae); XI GUO JIAO HUI XIANG; Thinfruit Hypecoum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood. TCM Indications: Common cold with fever, headache, throat pain, red eyes with gall, pain in joints, pneumonia, hepatitis, cholecystitis, blood ejection, spontaneous external bleeding, hematochezia. Isolated compounds: 3498, 4032, 10878, 10880, 12672, 12674, 12675, 12676, 12677, 16446, 17873, 19284.
- T3335 *Hypecoum procumbens* (Papaveraceae); PING ZHAN JIAO HUI XIANG; Procumbent Hypecoum*. Isolated compounds: 17873.
- T3336 *Hypecoum* sp. (Papaveraceae). Isolated compounds: 7788.
- T3337 *Hypericum ancherii* (Clusiaceae); AN SHI JIN SI TAO; Ancher St.John'swort*. Isolated compounds: 13481.
- T3338 *Hypericum androsaemum* (Clusiaceae); TU SAN JIN SI TAO; Tutsan. Isolated compounds: 15715.
- T3339 *Hypericum annulatum* (Clusiaceae); HUAN ZHUANG JIN SI TAO; Circularity St.John'swort*. Isolated compounds: 321, 1340.
- T3340 *Hypericum ascyron* (Clusiaceae); HUANG HAI TANG; Giant St.John'swort. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, quicken blood and regulate menstruation, clear heat and resolve toxin. TCM Indications: Blood ejection due to blood heat, hemoptysis, hematuria, hematochezia, flooding and spotting, knocks and falls, bleeding due to external injury, menstrual disorder, dysmenorrhea, galactostasis, wind-heat common cold, malaria, hepatitis, dysentery, diarrhea, poisonous snake bite, scalds, eczema, yellow-water sore. Isolated compounds: 3549, 5846, 10883, 10887, 11642, 12020, 18317, 19087.
- T3341 *Hypericum aucheri* (Clusiaceae); AO SHI JIN SI TAO; Aucher St.John'swort*. Isolated compounds: 15715.
- T3342 *Hypericum bellum* (Clusiaceae); MEI LI JIN SI TAO; Beautiful St.John'swort. Used part: fruit. TCM Effects: To clear damp heat, expel roundworms, relieve itch. TCM Indications: Hepatitis, dysentery, mouth sore, abdominal pain due to ascariasis, itchy of skin. Isolated compounds: 6339.
- T3343 *Hypericum calycinum* (Clusiaceae); DA E JIN SI TAO; Rose-of-Sharon. Isolated compounds: 10881.
- T3344 *Hypericum chinense* (Clusiaceae); JIN SI TAO GUO SHI; Chinese St.John'swort Fruit. Used part: fruit. TCM Effects: To moisten lung and relieve cough. TCM Indications: Lung disease, pertussis, vacuity heat cough. Isolated compounds: 9566.
- T3345 *Hypericum curvisepalum* (Clusiaceae); WAN E JIN SI TAO; Curvedsepal St.John'swort. Isolated compounds: 10883, 10887, 19087.
- T3346 *Hypericum degenii* (Clusiaceae); DI GEN JIN SI TAO; Degen St.John'swort*. Isolated compounds: 8306.
- T3347 *Hypericum drummondii* (Clusiaceae); DE LA MENG DE JIN SI TAO; Drummond St.John'swort. Isolated compounds: 848, 6606.
- T3348 *Hypericum elodeoides* (Clusiaceae); TING JING BIAN DI JIN; Elodia St.John'swort. Used part: whole herb. TCM Effects: See *Hypericum wightianum*. TCM Indications: See *Hypericum wightianum*. Isolated compounds: 10883, 10887, 19087.
- T3349 *Hypericum erectum* (Clusiaceae); XIAO LIAN QIAO; Erect St.John'swort. Used part: whole herb. TCM Effects: To regulate menstruation and stanch bleeding, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, flooding and spotting, bleeding due to external injury, menstrual disorder, postpartum galactostasis, knocks and falls, pain in joints due to rheumatism, swelling toxin of sore and boil, poisonous snake bite. Isolated compounds: 5101, 7223, 7224, 7225, 10886, 16268, 16269.
- T3350 *Hypericum faberi* (Clusiaceae); YANG ZI XIAO LIAN QIAO; Faber's St.John'swort. Isolated compounds: 10883, 10886, 10887, 19087.
- T3351 *Hypericum foliosum* (Clusiaceae); DUO YE JIN SI TAO; Leafy St.John'swort*. Isolated compounds: 21727.
- T3352 *Hypericum forrestii* (Clusiaceae); CHUAN DIAN JIN SI TAO; Forrest's St.John'swort. Isolated compounds: 10887.
- T3353 *Hypericum geminiflorum* (Clusiaceae); SHUANG HUA JIN SI TAO; Biflower St.John'swort*. Isolated compounds: 8262.
- T3354 *Hypericum henryi* (Clusiaceae); HENG LI DI ER CAO; Henry St.John'swort. Isolated compounds: 2371, 6184, 21152.

- T3355 *Hypericum hirsutum* (Clusiaceae); YING MAO JIN SI TAO; Hairy St.John'swort. Isolated compounds: 15170.
- T3356 *Hypericum japonicum* (Clusiaceae); DI ER CAO; Japanese St.John'swort. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin, dissipate stasis and disperse swelling, relieve pain. TCM Indications: Damp-heat jaundice, diarrhea, dysentery, intestinal welling abscess, pulmonary welling abscess, swelling toxin of welling abscess and boil, nipple moth, mouth sore, red eyes with gall, poisonous snake bite, knocks and falls. Isolated compounds: 380, 852, 2371, 4140, 6184, 8329, 10883, 10887, 11642, 11818, 11819, 11820, 19382, 19383, 19384, 19385, 21152, 22492.
- T3357 *Hypericum lancasteri* (Clusiaceae); ZHAN E JIN SI TAO; Lancaster's St.John'swort. Isolated compounds: 10883, 10887, 18317.
- T3358 *Hypericum laricifolium* (Clusiaceae); LUO YE SONG YE JIN SI TAO; Larch-leaf St.John'swort*. Isolated compounds: 2887, 9365, 15670, 18317.
- T3359 *Hypericum papuanum* (Clusiaceae). Isolated compounds: 6780, 6781, 6782, 8029, 10220, 10221, 10222, 10884, 10885, 10889, 10929, 10930, 10931, 10932, 10933, 16629, 16630, 16631, 16632, 16633.
- T3360 *Hypericum patulum* (Clusiaceae); JIN SI MEI; Spreading St.John'swort. Used part: whole herb. TCM Effects: To clear heat and rectify damp, resolve toxin, course liver and free network vessels, dispel stasis and relieve pain. TCM Indications: Damp-heat strangury, hepatitis, common cold, tonsillitis, mounting *qi* with unilateral sagging of one testicle, pain in sinews and bones, knocks and falls. Isolated compounds: 10883, 10887, 16730, 18317, 19087.
- T3361 *Hypericum perforatum* (Clusiaceae); GUAN YE LIAN QIAO; Common St.John'swort. Used part: whole herb with root. TCM Effects: To promote astriction and stanch bleeding, regulate menstruation and free milk, clear heat and resolve toxin, disinhibit damp. TCM Indications: Hemoptysis, blood ejection, intestinal wind bleeding, flooding and spotting, bleeding due to external injury, menstrual disorder, galactostasis, jaundice, throat pain, red eyes with gall, urinary tract infection, mouth sore, nose sores, swelling toxin of welling abscess and boil, burns and scalds. Isolated compounds: 2347, 6853, 8026, 10219, 10883, 10886, 10887, 10887, 13875, 14322, 18250, 18317, 18411, 19087, 20011, 20012, 20013, 20015.
- T3362 *Hypericum polyanthemum* (Clusiaceae). Isolated compounds: 10239, 10240, 11294.
- T3363 *Hypericum sampsonii* (Clusiaceae); YUAN BAO CAO; Sampson St.John'swort. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin, quicken blood and regulate menstruation, dispel wind and free network vessels. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, blood strangury, bleeding from wounds, enteritis, dysentery, mammary welling abscess, swollen welling abscess and toxin of clove sore, scalds, snake bite, menstrual disorder, menstrual pain, leukorrhea, knocks and falls, wind-damp impediment pain, pain in lumbus and leg, tinea capitis, mouth sore, eye screen. Isolated compounds: 2915, 5901, 5908, 5909, 6014, 10883, 10886, 10887, 10890, 18317, 20014.
- T3364 *Hypericum* spp. (Clusiaceae). Isolated compounds: 2347, 3551, 16587.
- T3365 *Hypericum subsessile* (Clusiaceae); JI WU BING JIN SI TAO; Subsessile St.John'swort. Isolated compounds: 10883, 10887, 18317.
- T3366 *Hypericum triquetrifolium* (Clusiaceae); SAN LENG YE JIN SI TAO; Triangular-leaf St.John'swort*. Isolated compounds: 18028.
- T3367 *Hypericum uliginosum* (Clusiaceae); SHI SHENG JIN SI TAO; Wetland St.John'swort*. Isolated compounds: 22190, 22191.
- T3368 *Hypericum wightianum* (Clusiaceae); BIAN DI JIN; Wight's St.John'swort. Equivalent plant: *Hypericum elodeoides*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, arrest diarrhea. TCM Indications: White mouth sore in children, infant pneumonia, stomatitis, mammary welling abscess, yellow-water sore, poisonous snake bites, diarrhea, enduring dysentery. Isolated compounds: 5182, 10883, 10886, 10887, 18317, 19087.
- T3369 *Hypericum wightianum* subsp. *axillare* (Clusiaceae); CHA YU BIAN DI JIN; Chayu St.John'swort. Isolated compounds: 10887.
- T3370 *Hyphantria cunea*; Female fall webworm moth. Isolated compounds: 15938.
- T3371 *Hypocrella bambusae* (Hypocreaceae); ZHU HONG JUN; Bambusa Hypocrella*. Used part: stroma. TCM Effects: To dispel wind and eliminate damp, resolve toxin and relieve itch. TCM Indications: Rheumatic arthritis, leukoplakia of vulva. Isolated compounds: 16974.
- T3372 *Hypodematium sinense* (Hypodematiaceae); SHAN DONG ZHONG ZU JUE; Shandong Hypodematium. Used part: whole herb or leaf. TCM Effects: To harmonize stomach and check vomiting, calm liver and quiet spirit. TCM Indications: Nausea, vomiting, dizziness, insomnia. Isolated compounds: 10891.
- T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (Acanthaceae); QIANG DAO YAO; Purple Hypoestes. Used part: whole herb. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, dissipate stasis and resolve toxin. TCM Indications: Lung heat cough, hemoptysis, blood ejection, spontaneous external bleeding, flooding and spotting, jaundice, diarrhea, stasis swelling from knocks and falls, bleeding knife wound, fracture. Isolated compounds: 2331, 3817, 4983, 9323, 9534, 10164, 10909, 10910, 10911, 10912, 11972, 11973, 11974, 11975, 11978, 11981, 13098, 14264, 14265, 15320, 19777, 20645, 22779.
- T3374 *Hypoestes rosea* (Acanthaceae); DAN HONG QIANG DAO YAO; Rose Hypoestes*. Isolated compounds: 10894.
- T3375 *Hypoestes serpens* (Acanthaceae); PU FU QIANG DAO YAO; Creeping Hypoestes*. Isolated compounds: 242, 5923, 6549, 8034, 10257, 10258, 10260, 19761.
Hypoestes sinica = *Hypoestes purpurea*
- T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*] (Dennstaedtiaceae); JI JUE; Punctate Flakelot Fern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Burns and scalds, bleeding due to external injury. Isolated compounds: 10876, 10901, 10902, 10903, 16098, 18098, 18140, 18141, 18143, 18144, 18161.
- T3377 *Hypomyces* sp. (Hypomycetaceae). Isolated compounds: 10904, 10905.
- T3378 *Hypoxylon fuscum* (Xylariaceae); AN ZONG TAN TUAN JUN. Isolated compounds: 4611, 4612, 4613, 21083.
- T3379 *Hyptis fasciculata* (Lamiaceae); CU SHENG SHAN XIANG; Fascicled Bushmint*. Isolated compounds: 13926, 13927, 14041.
- T3380 *Hyptis pectinata* (Lamiaceae); ZHI SHAN XIANG; Pectinat

Bushmint*. Used part: leaf. TCM Effects: To resolve heat, relieve cough, expel roundworms^[5509]. Isolated compounds: 16747, 16748, 16749, 16750, 16751, 16752, 16753, 16754.

T3381 *Hyptis suaveolens* (Lamiaceae); SHE BAI ZI; Wild Spikenard. Used part: stem-leaf. TCM Effects: To resolve exterior and disinhibit damp, move *qi* and dissipate stasis. TCM Indications: Common cold, wind-damp impediment pain, abdominal distention, diarrhea, dysentery, knocks and falls, eczema, dermatitis. Isolated compounds: 20431, 20432.

T3382 *Hyptis tomentosa* (Lamiaceae); RONG MAO SHAN XIANG; Tomentose Bushmint*. Isolated compounds: 19777.

T3383 *Hyptis verticillata* (Lamiaceae); LUN SHENG SHAN XIANG; Verticillate Bushmint*. Isolated compounds: 2847, 5074, 20249.

Hyssopus lophanthoides = *Isodon lophanthoides*

T3384 *Hyssopus officinalis* (Lamiaceae); SHEN XIANG CAO; Medicinal Hyssop. Isolated compounds: 20570, 20571.

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T3385 *Iberis amara* (Brassicaceae); QU QU HUA; Rocket Candytuft. Isolated compounds: 4323, 8598.

T3386 *Iberis umbellata* (Brassicaceae); SAN XING QU QU HUA; Globe Candytuft. Isolated compounds: 4317, 4319, 4320.

T3387 *Idesia polycarpa* (Flacourtiaceae); SHAN TONG ZI; Manyfruit Idesia. Used part: leaf. TCM Effects: To clear heat and cool blood, dissipate stasis and disperse swelling. TCM Indications: Fracture, burns and scalds, bleeding due to external injury, blood ejection. Isolated compounds: 5068.

T3388 *Ilex chinensis* [Syn. *Ilex purpurea*] (Aquifoliaceae); SI JI QING; Purpleflower Holly. Used part: leaf. TCM Effects: To clear heat and resolve toxin, close sores and engender flesh, quicken blood and stanch bleeding. TCM Indications: Angina pectoris, coronary heart disease, thrombophlebitis, thromboangiitis obliterans (Buerger's disease), lung heat cough, swelling pain in throat, dysentery, diarrhea, infection of biliary tract, urinary tract infection, burns and scalds, heat toxin swollen welling abscess, ulcer of lower limb, eczema, frostbite, cracking, wound, bleeding due to external injury. Isolated compounds: 2887, 5763, 10982, 16767, 17968, 18942, 20569.

T3389 *Ilex cornuta* (Aquifoliaceae); GOU GU SHU PI; Chinese Holly Bark. Used part: bark. TCM Effects: To supplement *yin*, boost liver and kidney, strengthen lumbus and legs. TCM Indications: Liver kidney vacuity, weakness in lumbus and knees. Isolated compounds: 618, 2858, 2892, 13098.

T3390 *Ilex cornuta* (Aquifoliaceae); GOU GU YE; Chinese Holly Leaf. Used part: leaf. TCM Effects: To clear vacuity heat, boost liver and kidney, dispel wind-damp. TCM Indications: *Yin* vacuity taxation fever, cough and hemoptysis, dizzy head and vision, limp aching lumbus and knees, wind-damp impediment pain, white patch wind. Isolated compounds: 618, 10985, 10986, 17697, 22270.

T3391 *Ilex dumosa* (Aquifoliaceae); GUAN CONG DONG QING; Shrubby Holly*. Isolated compounds: 19342, 19343, 19344, 19345.

T3392 *Ilex kudingcha* (Aquifoliaceae); KU DING CHA DONG QING; Kudinchia Holly. Used part: leaf. TCM Effects: See *Ilex latifolia*. TCM Indications: See *Ilex latifolia*. Isolated compounds: 10968, 10969,

10970, 10971, 10972, 10973, 10974, 10975, 10976, 10977, 10978, 10979, 10980, 12297, 12298, 12299, 12300, 12301, 12302, 12303, 12304, 12305, 12306.

T3393 *Ilex latifolia* (Aquifoliaceae); DA YE DONG QING; Broadleaf Holly. Equivalent plant: *Ilex kudingcha*. Used part: leaf. TCM Effects: To dissipate wind-heat, clear head and eyes, eliminate vexation and allay thirst. TCM Indications: Headache, toothache, red eyes, otitis media, febrile diseases with vexation and thirst, dysentery. Isolated compounds: 1113, 12547, 12548, 12549, 12550, 12551, 12552, 12553, 12554, 12555, 12556, 12557, 12558, 13098, 22288.

Ilex leptota = *Evodia leptota*

T3394 *Ilex paraguariensis* (Aquifoliaceae); BA LA GUI CHA; Paraguay Tea. Used part: leaf. TCM Effects: To clear heat and resolve toxin, eliminate inflammation, suppress cough and dispel phlegm, promote contraction, disinhibit urine, free stool, induce sweat^[5509]. TCM Indications: Rheumatis, scurvy, heart disease, stomach disease, diabetes^[5509]. Isolated compounds: 2892, 13599, 13600, 13601, 13602.

T3395 *Ilex pedunculosa* (Aquifoliaceae); CHANG GENG DONG QING; Longpedicel Holly. Used part: leaf, branch-leaf. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and stanch bleeding. TCM Indications: Wind-damp impediment pain, bleeding due to external injury, knocks and falls, cracking of skin, scar. Isolated compounds: 16766.

T3396 *Ilex pubescens* (Aquifoliaceae); MAO DONG QING; Pubescent Holly. Equivalent plant: *Ilex pubescens* var. *glaber*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and free network vessels. TCM Indications: Angina pectoris, acute myocardial infarction, cerebral thrombosis, thrombophlebitis, thromboangiitis obliterans (Buerger's disease), central retinitis, central angiospastic retinitis, wind-heat common cold, lung heat cough asthma, sore pharynx, nipple moth, gum swelling and pain, chest impediment and heart pain, wind stroke with hemiplegia, erysipelas, burns and scalds, welling abscess and flat abscess. Isolated compounds: 6175, 10981, 22615.

T3397 *Ilex pubescens* var. *glaber* (Aquifoliaceae); TU MAO DONG QING; Glabrous Holly*. Used part: root. TCM Effects: See *Ilex pubescens*. TCM Indications: See *Ilex pubescens*. Isolated compounds: 5750, 19542.

Ilex purpurea = *Ilex chinensis*

T3398 *Ilex rotunda* (Aquifoliaceae); JIU BI YING; Ovateleaf Holly. Used part: bark. TCM Effects: To clear heat and resolve toxin, disinhibit damp and relieve pain. TCM Indications: Common cold with fever, swelling pain in throat, stomachache, summerheat-damp diarrhea, jaundice, dysentery, knocks and falls, wind-damp impediment pain, eczema, sore and boil. Isolated compounds: 1113, 4246, 16766, 18942, 19089, 19911.

T3399 *Illicium anisatum* (Illiciaceae); RI BEN MANG CAO; Japanese Anisetree. Isolated compounds: 1283, 1285, 1286, 18018.

T3400 *Illicium difengpi* (Illiciaceae); DI FENG PI; Difengpi Anisetree. Equivalent plant: *Illicium majus*. Used part: bark. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Pain in joints due to rheumatism, taxation damage in lumbar muscle, centipede bite. Isolated compounds: 462, 5504, 13482,

- 13483.
- T3401 *Illicium henryi* (Illiciaceae); HONG HUI XIANG; Henry Anisetree. Used part: fruit. TCM Effects: To quicken blood and relieve pain, dispel wind and eliminate damp. TCM Indications: Knocks and falls, wind-cold-damp impediment, pain in lumbus and legs. Isolated compounds: 1283, 5204, 18018.
- T3402 *Illicium jiadifengpi* (Illiciaceae); JIA DI FENG PI; Jiadifengpi Anisetree. Isolated compounds: 5, 4952, 4953, 6817, 6887, 7010, 9975, 11868, 13409, 15432, 16308, 16309, 16395.
- T3403 *Illicium majus* (Illiciaceae); DA BA JIAO; Big Anisetree*. Used part: bark. TCM Effects: See *Illicium difengpi*. TCM Indications: See *Illicium difengpi*. Isolated compounds: 15432, 18051.
- T3404 *Illicium merrillianum* (Illiciaceae). Isolated compounds: 320, 1283, 1285, 1286, 2809, 2812, 4523, 4811, 4896, 4917, 5193, 5203, 5474, 5805, 9954, 9955, 9969, 9987, 9989, 10667, 13789, 16219, 16679, 18051, 20716.
- T3405 *Illicium minwanense* (Illiciaceae); MIN WAN BA JIAO; Minwan Anisetree. Isolated compounds: 4, 5204, 7068, 9989, 9990, 9991, 10668, 14704, 14875, 14876, 14877, 14877, 16413, 18018, 18051, 19805.
- T3406 *Illicium religiosum* (Illiciaceae); DONG DU HUI; Religious Anisetree*. Isolated compounds: 19121, 19805.
- T3407 *Illicium simonsii* (Illiciaceae); YUN NAN BA JIAO; Yunnan Anisetree. Used part: ripe fruit or leaf. TCM Effects: To engender flesh and kill worms. TCM Indications: Enduring sores, scab sore. Isolated compounds: 16311.
- T3408 *Illicium tsangii* (Illiciaceae); DU AI BA JIAO; Poisonous-shrub Anise*. Isolated compounds: 9733, 9734, 10242, 10243, 10689, 10690, 11304.
- T3409 *Illicium verum* (Illiciaceae); BA JIAO HUI XIANG; Star Anise. Used part: fruit. TCM Effects: To warm yang and dissipate cold, rectify qi and relieve pain. TCM Indications: Cold mounting with abdominal pain, kidney vacuity lumbago, vomiting with stomach cold, cold pain in stomach duct and abdomen, septicemia. Isolated compounds: 1184, 1185, 1186, 1282, 1284, 1289, 6310, 7385, 7853, 13883, 14062, 14063, 14064, 14065, 14066, 14067, 18261, 18407, 22384, 22385.
- T3410 *Impatiens balsamina* (Balsaminaceae); FENG XIAN; Garden Balsam. Used part: stem. TCM Effects: To dispel wind-damp, quicken blood and relieve pain, resolve toxin. TCM Indications: Wind-damp impediment pain, pain from arthritis, painful swelling from knocks and falls, amenorrhea, dysmenorrhea, swollen welling abscess, erysipelas, goose-foot wind, snake or insect bites. Isolated compounds: 1500, 11027, 21811.
- T3411 *Impatiens balsamina* (Balsaminaceae); FENG XIAN HUA; Garden Balsam Flower. Used part: flower. TCM Effects: To dispel wind and quicken blood, disperse swelling and relieve pain. TCM Indications: Rheumatism numbness, lumbar and rib-side pain, amenorrhea and dysmenorrhea, postpartum blood stasis, knocks and falls, welling abscess and flat abscess, clove sore, goose-foot wind, ashen nail. Isolated compounds: 5011, 12580, 13456, 16777.
- T3412 *Impatiens balsamina* (Balsaminaceae); JI XING ZI; Garden Balsam Seed. Used part: ripe seed. TCM Effects: To break blood and soften hard, disperse accumulation. TCM Indications: Concretion and conglomeration, lump glomus, amenorrhea, dysphagia-occlusion. Isolated compounds: 1500, 5200, 9651, 12580, 16667, 20566.
- T3413 *Impatiens nolitangere* (Balsaminaceae); SHUI JIN FENG; Lightyellow Snapweed. Used part: root or whole herb. TCM Effects: To quicken blood and regulate menstruation, dispel wind and eliminate damp. TCM Indications: Menstrual disorder [= menoxenia], dysmenorrhea, menstrual block, knocks and falls, wind-damp impediment pain, leg qi swelling and pain, damp-swelling in scrotum, lichen sore, lai sore. Isolated compounds: 13127.
- T3414 *Impatiens sicutifer* (Balsaminaceae); HUANG JIN FENG; Incurvedspur Snapweed. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling, clear heat and resolve toxin. TCM Indications: Wind-damp bone pain, rheumatism numbness, knocks and falls, burns and scalds. Isolated compounds: 4140, 20168.
- T3415 *Imperata cylindrica* (Poaceae); YIN DU BAI MAO; Cogon Satintail. Isolated compounds: 11234.
- T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome. Used part: rhizome. TCM Effects: To cool blood and stanch bleeding, clear heat and engender liquid, disinhibit urine and free strangury. TCM Indications: Acute nephritis with edema, acute glomerulonephritis, chronic glomerulonephritis, acute hepatitis, blood ejection due to blood heat, spontaneous external bleeding, hematuria, febrile diseases with vexation and thirst, jaundice, edema, heat strangury with inhibited pain, measles papules. Isolated compounds: 1178, 1823, 3907, 4545, 4546, 11000, 19901.
- T3417 *Imperata cylindrica* var. *major* (Poaceae); MAO CAO YE; Lalang Grass Leaf. Used part: leaf. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp impediment pain, wind papules. Isolated compounds: 1615, 1616, 4546, 7759, 16294.
- T3418 *Incarvillea arguta* (Bignoniaceae); MA TONG HUA; Sharptooth Incarvillea. Used part: whole herb with rhizome. TCM Effects: To fortify spleen and disinhibit damp, move qi and quicken blood. TCM Indications: Diarrhea, dysentery, stomachache, pain in rib-side, wind-damp pain, menstrual disorder, swollen welling abscess, fracture. Isolated compounds: 1676, 1677, 1678, 4995, 5189.
- T3419 *Incarvillea dissectifoliola* (Bignoniaceae); SHEN LIE YE JIAO HAO; Deep-lobed-leaf Incarvillea*. Isolated compounds: 6518.
- T3420 *Incarvillea sinensis* (Bignoniaceae); JIAO HAO; Chinese Incarvillea. Used part: whole herb. TCM Effects: To dispel wind-damp, resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, knocks and falls, mouth sore, gingiva ulcerating, ear sore, eczema, scab and lichen, trichomonas vaginalis. Isolated compounds: 11006, 11007, 11008, 11009, 11010, 11011.
- T3421 *Indigofera arrecta* (Fabaceae); ZHI LI DIAN LAN. Isolated compounds: 12018.
- T3422 *Indigofera heteranthazha* (Fabaceae); YI HUA MU LAN; Different-flowered Indigo. Isolated compounds: 13252, 13261, 16886.
- T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Encephalitis B, parotitis, acute pharyngolaryngitis, red eyes, lymphnoditis, mouth sore, swollen welling abscess, sore and boil, erysipelas, scab and lichen, snake or insect bites, blood ejection. Isolated compounds: 4872, 4898, 11014,

- 11023, 11024.
- T3424 *Inga umbellifera* (Fabaceae); SAN XING HUA XU YIN JIA; Inga*. Isolated compounds: 3310, 3311, 3312, 3313, 3314.
- T3425 *Inonotus hispidus* (Polyporaceae); CU YING MAO XIAN KONG JUN. Isolated compounds: 9567.
- T3426 *Inula britannica* (Asteraceae); DA HUA XUAN FU HUA CAO; British Inula Herb. Used part: aerial parts. TCM Effects: See *Inula japonica*. TCM Indications: See *Inula japonica*. Isolated compounds: 2615, 10353, 16035, 18372, 18399.
- T3427 *Inula britannica* (Asteraceae); XUAN FU HUA; British Inula. Equivalent plant: *Inula linariaefolia*, *Inula britannica* var. *chinensis*. Used part: capitulum. TCM Effects: To downbear *qi*, disperse phlegm, move water, check vomiting. TCM Indications: Wind-cold cough, glomus fullness in chest and diaphragm, cough and asthma, abundant phlegm, vomiting and eructation, hard glomus below heart. Isolated compounds: 2052, 2887, 3551, 4135, 5763, 6918, 7557, 7768, 9818, 11111, 11642, 12020, 16728, 17765, 18316, 18317, 19187, 19542, 20566, 20704.
- T3428 *Inula britannica* var. *chinensis* (Asteraceae); ZHONG GUO XUAN FU HUA; Chinese Inula. Used part: capitulum. TCM Effects: See *Inula britannica*. TCM Indications: See *Inula britannica*. Isolated compounds: 2052, 4680, 8047, 11111, 12020, 15203, 17765, 18317, 20281, 20704.
- T3429 *Inula eupatorioides* (Asteraceae); ZE LAN YANG ER JU; Eupatoriumlike Inula. Isolated compounds: 7075.
- T3430 *Inula grandis* (Asteraceae); DA YE TU MU XIANG; Largeleaf Inula. Isolated compounds: 834, 8982, 11203.
- T3431 *Inula helenium* (Asteraceae); TU MU XIANG; Elecampane Inula. Equivalent plant: *Inula racemosa*. Used part: root. TCM Effects: To fortify spleen and harmonize stomach, regulate *qi* and resolve depression, relieve pain and quiet fetus. TCM Indications: Distending pain in chest and rib-side, distending pain in stomach duct, vomiting and diarrhea, contusion in chest and rib-side, forking *qi* with pain, stirring fetus in pregnancy. Isolated compounds: 149, 834, 5648, 11203.
- T3432 *Inula helianthus-aquatica* (Asteraceae); SHUI CHAO YANG; Aquatic-sunflower Inula. Used part: flower. TCM Effects: To dispel wind and downbear fire, eliminate inflammation and move water, resolve toxin. TCM Indications: Common cold with headache, chest oppression with cough asthma, ascites, acute conjunctivitis, wind-fire toothache, mammary welling abscess. Isolated compounds: 7239.
- T3433 *Inula japonica* (Asteraceae); JIN FEI CAO; Japanese Inula. Equivalent plant: *Inula britannica*. Used part: aerial parts. TCM Effects: To downbear *qi*, disperse phlegm, move water. TCM Indications: Wind-cold cough, phlegm congestion and *qi* counterflow, glomus fullness in chest and diaphragm, cough and asthma with abundant phlegm, painful swelling from clove sore. Isolated compounds: 236, 1888, 2615, 5648, 5741, 6114, 9754, 9756, 9770, 10111, 11108, 11109, 11110, 11111, 11120, 11203, 11795, 13137, 20704, 21443, 21444, 22746, 22747.
- T3434 *Inula linariaefolia* (Asteraceae); XIAN YE XUAN FU HUA; Linearleaf Inula. Used part: capitulum. TCM Effects: See *Inula britannica*. TCM Indications: See *Inula britannica*. Isolated compounds: 2615, 11111.
- T3435 *Inula magnifica* (Asteraceae); MEI LI XUAN FU HUA; Beautiful Inula*. Isolated compounds: 834.
- T3436 *Inula nervosa* (Asteraceae); XIAN MAI XUAN FU HUA; Veined Inula. Used part: root. TCM Effects: To dispel wind-damp, free channels and network vessels, disperse accumulation and relieve pain. TCM Indications: Wind-damp pain, cold pain in stomach duct and abdomen, food accumulation abdominal distention, dysphagia-occlusion, beriberi. Isolated compounds: 5921, 6375.
- T3437 *Inula racemosa* (Asteraceae); ZONG ZHUANG TU MU XIANG; Racemose Inula. Used part: root. TCM Effects: See *Inula helenium*. TCM Indications: See *Inula helenium*. Isolated compounds: 834, 11203, 11203.
- T3438 *Inula royleana* (Asteraceae); XI MA XUAN FU HUA; Himalayan Inula. Isolated compounds: 1366, 11203, 13189, 18971.
- T3439 *Inula* sp. (Asteraceae). Isolated compounds: 11794.
- T3440 *Inula verbascifolia* (Asteraceae); MAO RUI HUA YE TU MU XIANG; Mulleinleaf Inula*. Isolated compounds: 474, 475, 14667.
- T3441 *Inula viscosa* (Asteraceae); NIAN XING TU MU XIANG; Woody Fleabane. Isolated compounds: 20791.
- T3442 *Iotrochota baculifera* XIAO BANG XIOU QIOU HAI MIAN; Sponge *Iotrochota baculifera*. Isolated compounds: 11124, 20224.
- T3443 *Iphigenia indica* (Liliaceae); CAO BEI MU; Indian Iphigenia. Used part: bulb. TCM Effects: To dissipate binds and relieve pain. TCM Indications: Carcinoma of mammary glands, nasopharyngeal carcinoma, carcinoma of salivary gland, scrofula, swelling of skin, pain wind. Isolated compounds: 3911, 4059, 7901, 13073.
- T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*] (Convolvulaceae); WENG CAI; Aquatic Morning Glory. Used part: stem-leaf. TCM Effects: To cool blood and clear heat, disinhibit damp and resolve toxin. TCM Indications: Nosebleed(epistaxis), hematochezia, hematuria, constipation, strangury-turbidity, hemorrhoids, swollen welling abscess, fracture, snake or insect bites. Isolated compounds: 13127, 14487.
- T3445 *Ipomoea argyrophylla* (Convolvulaceae); YIN YE SHU; Silverleaf Morningglory*. Isolated compounds: 3477, 7240, 13255.
- T3446 *Ipomoea asarifolia* (Convolvulaceae); XI XIN YE QIAN NIU; Wildginger-leaf Morning Glory*. Isolated compounds: 4435, 4437.
- T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*] (Convolvulaceae); GAN SHU; Sweet Potato. Used part: tuberoid. TCM Effects: To supplement center and harmonize blood, boost *qi* and engender liquid, loosen intestines and stomach, free stool. TCM Indications: Spleen vacuity edema, constipation, toxin swelling of sores. Isolated compounds: 3209, 11130, 11131, 16333.
- T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*] (Convolvulaceae); WU ZHAO LONG; Cairo Morningglory. Used part: Root or stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Lung heat cough, inhibited urination, strangury, edema, swollen welling abscess and toxin of clove. Isolated compounds: 1621, 7232, 15086, 15806, 21490.
- T3449 *Ipomoea hederacea* (Convolvulaceae); LIE YE QIAN NIU; Lobedleaf Morningglory*. Isolated compounds: 16808.
- T3450 *Ipomoea obscura* (Convolvulaceae); XIAO XIN YE SHU;

- Smallheartleaved Morningglory. Isolated compounds: 11125, 11126, 11127.
- Ipomoea palmata* = *Ipomoea cairica*
- T3451 *Ipomoea regnellii* (Convolvulaceae); RUI SHI QIAN NIU; Regnell Morningglory*. Isolated compounds: 18349, 18406.
- Ipomoea reptans* = *Ipomoea aquatica*
- T3452 *Ipomoea tricolor* (Convolvulaceae); SAN SE QIAN NIU; Trichroism Morningglory*. Isolated compounds: 3477, 13255.
- T3453 *Ipomoea violacea* (Convolvulaceae); QING ZI QIAN NIU; Violet Morningglory*. Isolated compounds: 3477, 13255.
- T3454 *Iris bungei* (Iridaceae); BENG GE YUAN WEI; Bunge Iris*. Isolated compounds: 11155, 11156, 11157, 11160, 11161, 11162, 11163, 11166, 11167, 11168, 11169, 11170, 21411.
- T3455 *Iris carthaliniae* (Iridaceae); AI JI ZHONG ZHI YUAN WEI; Egypt Planted Iris. Isolated compounds: 6241, 11180, 14740, 20903.
- T3456 *Iris cristata* (Iridaceae); SHI GUAN YUAN WEI; Crest Iris. Isolated compounds: 7067, 7120, 7148.
- T3457 *Iris dichotoma* (Iridaceae); BAI HUA SHE GAN; Vesper Iris. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling, relieve pain, relieve cough. TCM Indications: Swelling pain in throat, gum swelling and pain, epidemic parotitis, mammary welling abscess, stomachache, hepatitis, liver spleen enlargement, lung heat cough, knocks and falls. Isolated compounds: 5426, 11141, 11154, 11164, 20900, 20901.
- T3458 *Iris florentina* (Iridaceae); XI OU YUAN WEI; Orris. Isolated compounds: 11141, 11141, 11153, 11183, 11184, 15203.
- T3459 *Iris germanica* (Iridaceae); DE GUO YUAN WEI; German Iris. Isolated compounds: 8349, 8350, 11133, 11141, 11152, 11154, 11158, 11159, 11165, 11171, 11172, 20901.
- T3460 *Iris halophila* (Iridaceae); XI YAN YUAN WEI; Salt-loving Iris. Used part: seed. TCM Effects: See *Iris lactea* var. *chinensis*. TCM Indications: See *Iris lactea* var. *chinensis*. Isolated compounds: 9198, 9199.
- T3461 *Iris japonica* (Iridaceae); HU DIE HUA; Fringed Iris. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Hepatitis, liver enlargement, pain in hepatic zone, stomachache, swelling pain in throat, hematochezia. Isolated compounds: 2215, 6769, 11466.
- T3462 *Iris komonoensis* (Iridaceae); RI BEN YUAN WEI; Japanese Iris*. Isolated compounds: 11141.
- T3463 *Iris kumaonensis* (Iridaceae); XI MA LA YA YUAN WEI; Himalayan Iris*. Isolated compounds: 11173, 11174, 11175, 11176, 11177, 11178.
- T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*] (Iridaceae); MA LIN ZI; Chinese Iris. Equivalent plant: *Iris halophila*. Used part: seed. TCM Effects: To clear heat and dispel damp, resolve toxin and kill worms, stanch bleeding and settle pain. TCM Indications: Jaundice, strangury-turbidity, inhibited urination [=dysuria], intestinal welling abscess, worm accumulation, malaria, wind-damp pain, throat impediment, toothache, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting [=metrorrhagia and metrostaxis], swelling of sores, scrofula, mounting *qi* [=hernia], hemorrhoids, scalds, snake bite. Isolated compounds: 11179, 16543, 16544.
- Iris pallasii* var. *chinensis* = *Iris lactea* var. *chinensis*
- T3465 *Iris pallasii* var. *chinensis* (Iridaceae); MA LIN; Chinese Iris. Isolated compounds: 11179.
- T3466 *Iris potaninii* (Iridaceae); JUAN QIAO YUAN WEI; Potanin Iris. Used part: seed. TCM Effects: To clear heat and resolve toxin, expel worms. TCM Indications: Intestinal welling abscess, ascariasis, oxyuria. Isolated compounds: 5426, 6248, 6295, 6338, 11152, 11153, 13964, 21189, 21936.
- T3467 *Iris pseudacorus* (Iridaceae); HUANG CHANG PU; Yellowflag Iris. Isolated compounds: 11179.
- T3468 *Iris sanguinea* (Iridaceae); DOU CHI CAO; Bloodred Iris. Used part: rhizome and root. TCM Effects: To disperse accumulation and move water. TCM Indications: Stomachache, abdominal pain. Isolated compounds: 20505.
- T3469 *Iris* sp. (Iridaceae). Isolated compounds: 117.
- T3470 *Iris spuria* (Iridaceae); JIA YUAN WEI; False Iris*. Isolated compounds: 11134, 11135, 11136, 11137, 11138, 11139, 11140.
- T3471 *Iris tectorum* (Iridaceae); YUAN WEI; Roof Iris. Used part: leaf or whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and disinherit damp, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, hepatitis, liver enlargement, cystitis, wind-damp pain, painful swelling from knocks and falls, sore and boil, itchy skin. Isolated compounds: 6769, 11150, 11151, 11154, 11181, 11182, 14144, 20900, 20901, 20904.
- T3472 *Iris tingitana* (Iridaceae); DAN JI ER YUAN WEI; Tingit Iris. Isolated compounds: 833.
- T3473 *Iris unguicularis* (Iridaceae); A ER JI LI YA YUAN WEI; Algerian Iris. Isolated compounds: 11141.
- T3474 *Iryanthera polyneura*. Isolated compounds: 9598.
- T3475 *Isatis indigotica* (Brassicaceae); BAN LAN GEN; Indigowoad Root. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and disinherit throat. TCM Indications: Epidemic encephalitis, measles papulis, parotitis, influenza, warm toxin macular eruption, ardent fever with headache, massive head scourge, throat pain, maculopapular eruption, epidemic parotitis, erysipelas, hepatitis, swelling toxin of sore and welling abscess. Isolated compounds: 618, 1048, 2224, 2806, 5637, 6235, 10643, 11014, 11022, 11023, 11024, 11028, 11030, 11186, 11187, 11190, 12227, 19187, 19909, 19935, 19983, 19984, 20566, 21840, 22059.
- T3476 *Isatis indigotica* (Brassicaceae); DA QING YE; Indigo-coloured Woad Leaf. Equivalent plant: LU BIAN QING. Used part: leaf. TCM Effects: To clear heat and resolve toxin, cool blood and disperse macula. TCM Indications: Acute parotitis, encephalitis, hepatitis, lung abscess, acute gastroenteritis, infection of upper respiratory tract, warm evil in construction, ardent fever with clouded spirit, macular eruption and papules, jaundice, heat dysentery, epidemic parotitis, throat impediment, erysipelas, swollen welling abscess. Isolated compounds: 618, 8589, 8590, 9486, 11014, 11023, 11024, 11188, 15400, 18287, 19983, 19984, 20446, 21334, 22059, 22060.
- T3477 *Isatis tinctoria* (Brassicaceae); OU ZHOU SONG LAN; Dyers Woad. Isolated compounds: 18287, 22059.
- T3478 *Isodon albopilosus* (Lamiaceae); BAI ROU MAO XIANG CHA CAI; Whitepilose Rabdosia. Isolated compounds: 865.
- T3479 *Isodon amethystoides* (Lamiaceae); XIANG CHA CAI; Common

Rabdosia. Used part: aerial parts or root. TCM Effects: Aerial parts: To clear heat and disinhibit damp, quicken blood and dissipate stasis, resolve toxin and disperse swelling; Root: To clear heat and resolve toxin, dispel stasis and relieve pain. TCM Indications: Aerial parts: Damp-heat jaundice, strangury, edema, swelling pain in throat, impediment pain in joints, menstrual block, mammary welling abscess, hemorrhoids, effusion of back, knocks and falls, poisonous snake bite; Root: Poisonous snake bites, swelling toxin of sore and boil, aching sinews and bones, knocks and falls, burns and scalds. Isolated compounds: 528, 1037, 1038, 22635.

- T3480 *Isodon angustifolia* (Lamiaceae); XIA YE XIANG CHA CAI; Narrowleaf Rabdosia*. Used part: root. TCM Effects: To fortify stomach and harmonize center, quicken blood and free network vessels. TCM Indications: Indigestion, Kersan disease with hypertonicity and pain, carcinoma. Isolated compounds: 1245, 6520.
- T3481 *Isodon angustifolius* var. *glabrescens* (Lamiaceae); MAO GENG XIA YE XIANG CHA CAI; Hairstalk Narrowleaf Rabdosia*. Isolated compounds: 458, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 18461.
- T3482 *Isodon bulleyana* (Lamiaceae); CANG SHAN XIANG CHA CAI; Cangshan Rabdosia. Isolated compounds: 2743.
- T3483 *Isodon calcicola* (Lamiaceae); JIN WU MAO HUI YAN XIANG CHA CAI; Calcicole Rabdosia. Isolated compounds: 2947, 2949, 2951, 2953, 2954.
- T3484 *Isodon dawoensis* (Lamiaceae); DAO FU XIANG CHA CAI; Dawo Rabdosia. Isolated compounds: 4701.
- T3485 *Isodon effusa* (Lamiaceae); KAI ZHAN XIANG CHA CAI; Spreading Rabdosia*. Isolated compounds: 6710, 6711, 6712, 6713, 6714, 6715.
- T3486 *Isodon enanderianus* (Lamiaceae); ZI MAO XIANG CHA CAI; Purplehair Rabdosia. Isolated compounds: 6783, 6784, 6785, 6786, 6787, 6788, 6789, 6790, 6791, 6792, 6793, 6794, 6826, 10797, 13649, 13650, 18456, 18457, 18459, 21123, 21564.
- T3487 *Isodon eriocalyx* var. *laxiflora* (Lamiaceae); SHU HUA MAO E XIANG CHA CAI; Laxflower Hairysepal Rabdosia. Isolated compounds: 12583, 12584, 12585, 12586, 12587, 12588, 12589, 12590, 13523, 13537.
- T3488 *Isodon flavidus* (Lamiaceae); DAN HUANG XIANG CHA CAI; Yellowish Rabdosia. Isolated compounds: 7812, 7813, 9545, 10122, 19876.
- T3489 *Isodon flexicaulis* (Lamiaceae); ROU JING XIANG CHA CAI; Flexedstem Rabdosia. Isolated compounds: 7828.
- T3490 *Isodon forrestii* (Lamiaceae); ZI E XIANG CHA CAI; Forrest Rabdosia*. Isolated compounds: 7915, 7916, 7917, 7918, 7919, 7920, 7921, 11383, 18461, 18462.
- T3491 *Isodon gesnerioides* (Lamiaceae); JU TAI XIANG CHA CAI; Gesnerialike Rabdosia. Isolated compounds: 8366, 8367, 8368, 8369, 8370.
- T3492 *Isodon glutinosa* (Lamiaceae); JIAO NIAN XIANG CHA CAI; Slimy Rabdosia. Isolated compounds: 8791, 8792, 8793, 11384, 11385, 17489.
- T3493 *Isodon henryi* (Lamiaceae); E XI XIANG CHA CAI; Henry Rabdosia. Isolated compounds: 6929, 9362.
- T3494 *Isodon inflexa* [Syn. *Rabdosia inflexa*] (Lamiaceae); NEI ZHE XIANG CHA CAI; Inflexed Rabdosia. Isolated compounds: 11039, 11040, 11041, 11042, 11043, 11044, 11045, 11046, 11047, 11048, 11049, 11050, 11051, 11052, 11053, 11054, 11055, 11056, 18464, 18465, 18484, 18485.
- T3495 *Isodon irrorata* (Lamiaceae); LU ZHU XIANG CHA CAI; Dew Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold, innominate toxin swelling, massive head scourge. Isolated compounds: 11185.
- T3496 *Isodon japonica* [Syn. *Rabdosia japonica*] (Lamiaceae); MAO YE XIANG CHA CAI; Japanese Rabdosia. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Hepatitis, gastritis, mastitis, amenorrhea, knocks and falls, pain in joints, snake or insect bites. Isolated compounds: 6804, 6805, 6975, 6976, 11381, 11382, 11392, 11394, 11402, 12123, 12537, 13319, 13544, 13545, 15652, 15653, 15988, 16183, 17717, 18496, 18497, 18498, 18499, 18500, 18978, 19815, 20040, 20620, 20621, 21572.
- T3497 *Isodon japonica* var. *glaucoalyx* (Lamiaceae); LAN E XIANG CHA CAI; Bluesepal Rabdosia*. Isolated compounds: 393, 8514, 8515, 8516, 8517, 8518, 8519.
- T3498 *Isodon kameba* (Lamiaceae); KA MEI XIANG CHA CAI; Kamei Rabdosia*. Isolated compounds: 12121, 12122, 12123, 12124, 12125, 12708, 12709, 12710, 12711, 12712.
- T3499 *Isodon kunmingensis* (Lamiaceae); KUN MING XIANG CHA CAI; Kunming Rabdosia*. Isolated compounds: 18470, 18471, 18472, 18473, 18474.
- T3500 *Isodon lasiocarpa* (Lamiaceae); CU GUO XIANG CHA CAI; Roughfruit Rabdosia*. Isolated compounds: 3219, 12534, 12536, 12538, 12539, 12540, 18475.
- T3501 *Isodon lasiocarpus* (Lamiaceae); MIAN MAO GUO XIANG CHA CAI; Woollyfruit Rabdosia*. Isolated compounds: 12537, 16183.
- T3502 *Isodon latifolia* var. *reniformis* (Lamiaceae); SHEN XING XIANG CHA CAI; Reniform Rabdosia*. Isolated compounds: 18621, 18622.
- T3503 *Isodon leucophyllus* (Lamiaceae); BAI YE XIANG CHA CAI; Whiteleaf Rabdosia*. Isolated compounds: 2116, 2117, 2118, 3165, 6834, 10749, 10751, 11642, 12719, 12720, 12721, 12722, 12723, 12724, 21184.
- T3504 *Isodon liangshanica* (Lamiaceae); LIANG SHAN XIANG CHA CAI; Liangshan Rabdosia. Isolated compounds: 12739, 12740, 12741, 12742, 12743, 12744, 12745.
- T3505 *Isodon lihsienensis* (Lamiaceae); LI XIAN XIANG CHA CAI; Lihsien Rabdosia. Isolated compounds: 12831.
- T3506 *Isodon lophanthoides* (Lamiaceae); XIAN WEN XIANG CHA CAI; Linearstripe Rabdosia. Isolated compounds: 12990.
- T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*] (Lamiaceae); XI HUA XIAN WEN XIANG CHA CAI; Linearstripe Rabdosia. Used part: whole herb. TCM Effects: See *Rabdosia serra*. TCM Indications: See *Rabdosia serra*. Isolated compounds: 12993, 12994, 12995, 12996, 12997, 12998.
- T3508 *Isodon lophanthoides* var. *gerardiana* (Lamiaceae); XIA JI XIAN WEN XIANG CHA CAI; Gerard Linearstripe Rabdosia*. Isolated

- compounds: 8331, 8332, 10256, 12991, 12992.
- T3509 *Isodon loxothyrsa* (Lamiaceae); WAN ZHUI XIANG CHA CAI; Bowedconical Rabdosia*. Isolated compounds: 13013, 18478, 18479.
- T3510 *Isodon lungshengensis* (Lamiaceae); LONG SHENG XIANG CHA CAI; Longshen Rabdosia. Isolated compounds: 11053, 13076, 13077, 13078, 13079, 13080, 13081, 13082, 13083, 13118.
- T3511 *Isodon macrocalyx* (Lamiaceae); DA E XIANG CHA CAI; Largesepal Rabdosia. Isolated compounds: 13304, 13305, 13306, 13307, 13308, 13309, 13310.
- T3513 *Isodon macrocalyx* (Lamiaceae); DA E BIAN XING XIANG CHA CAI; Largesepal Rabdosia. Isolated compounds: 11056, 13311, 13312, 13313, 13314.
- T3512 *Isodon macrocalyx* var. *jiuhua* (Lamiaceae); JIU HUA DA E XIANG CHA CAI; Jiuhua Largesepal Rabdosia. Isolated compounds: 11889.
- T3514 *Isodon megathyrsus* (Lamiaceae); DA ZHUI XIANG CHA CAI; Bigthyrsus Rabdosia. Isolated compounds: 13649, 13650.
- T3515 *Isodon melissoides* (Lamiaceae); BAO YE XIANG CHA CAI; Bractleaf Rabdosia. Isolated compounds: 4701, 13688, 13689, 13690, 13691, 13692, 13693, 13694, 13695, 13696, 13697, 13698, 13699, 13700, 13701, 13702, 13703, 13704, 13705, 13706, 13707, 22798.
- T3516 *Isodon oresbia* (Lamiaceae); SHAN DI XIANG CHA CAI; Montane Rabdosia. Isolated compounds: 620, 6178, 6714, 6804, 6806, 6807, 13529, 15338, 15652, 16176, 16177, 16178, 20040, 21561, 21563, 22270, 22581.
- T3517 *Isodon parvifolia* (Lamiaceae); XIAO YE XIANG CHA CAI; Smallleaf Rabdosia*. Isolated compounds: 243, 11599, 16683, 16684, 16685, 16686, 16687.
- T3518 *Isodon pharicus* (Lamiaceae); CHUAN ZANG XIANG CHA CAI; Szechwan-Tibet Rabdosia. Isolated compounds: 5696, 11395, 11396, 11397, 11398, 11399, 18075, 18076, 18077, 18078, 18079, 18080.
- T3519 *Isodon phyllostachys* (Lamiaceae); YE SUI XIANG CHA CAI; Leafspike Rabdosia. Isolated compounds: 17226, 17227, 17228.
- T3520 *Isodon rosthornii* (Lamiaceae); YING HUA XIANG CHA CAI; Rosthorn Rabdosia. Used part: whole herb. TCM Effects: To course wind and overcome damp, transform phlegm and relieve cough, dissipate stasis and relieve pain. TCM Indications: Wind damage and common cold, wind-damp impediment pain, cough and abundant phlegm, stasis swelling from knocks and falls. Isolated compounds: 18931, 18932, 18933, 18934, 18935.
- T3521 *Isodon rubescens* var. *lushanensis* (Lamiaceae); LU SHAN XIANG CHA CAI; Lushan Rabdosia*. Isolated compounds: 6808, 6975, 11055, 11392, 11394, 12536, 13116, 13117, 13118, 13119, 13120, 13121, 13122, 13123, 13124, 16183, 17717, 18499, 18501, 18502.
- T3522 *Isodon rubescens* var. *lushiensis* (Lamiaceae); LU SHI DONG LING CAO; Lushien Rabdosia*. Isolated compounds: 1245, 6826, 9080, 9081, 9082, 13066, 13067, 13068, 13069, 13070, 13071, 16758, 18317, 19579.
- T3523 *Isodon rugosus* [Syn. *Rabdosia rugosa*] (Lamiaceae); ZHOU YE XIANG CHA CAI; Rugose Rabdosia*. Isolated compounds: 5554, 5650, 5704, 6710, 6711, 6714, 12537, 16183, 19049, 19061.
- T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*] (Lamiaceae); HUANG HUA XIANG CHA CAI; Yellowflower Rabdosia. Used part: whole herb. TCM Effects: To resolve toxin, disinhibit damp, rectify qi.
- TCM Indications: Dysentery abdominal pain, foot lichen. Isolated compounds: 19574, 19575, 19576, 19577, 19578.
- T3525 *Isodon setschwanensis* (Lamiaceae); SI CHUAN XIANG CHA CAI; Sichuna Rabdosia. Isolated compounds: 18490, 18491, 18492, 18493.
- T3527 *Isodon shikokiana* var. *occidentalis* (Lamiaceae); XI SI GUO XIANG CHA CAI; West-Shiko Rabdosia*. Isolated compounds: 7201, 14409, 14727, 19806, 19807.
- T3526 *Isodon shikokiana* var. *intermedius* (Lamiaceae); JIAN XING SI GUO XIANG CHA CAI; Intermediate Shiko Rabdosia*. Isolated compounds: 11386, 19808, 19809, 19810, 19811, 19812.
- Isodon striatus* = *Isodon lophanthoides*
- T3528 *Isodon ternifolia* (Lamiaceae); NIU WEI CAO XIANG CHA CAI; Ternateleaf Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Common cold, influenza, cough with profuse phlegm, swelling pain in throat, toothache, jaundice, heat strangury, edema, dysentery, enteritis, bleeding due to external injury. Isolated compounds: 11393, 11400, 11401, 18501, 18502, 18503, 18504, 18505, 18506, 18507, 20979.
- T3529 *Isodon ternifolius* (Lamiaceae); CHONG YA YAO; Ternateleaf Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Common cold, influenza, cough with profuse phlegm, swelling pain in throat, toothache, jaundice, heat strangury, edema, dysentery, enteritis, bleeding due to external injury. Isolated compounds: 11400, 11401, 18508, 22270.
- T3530 *Isodon trichocarpa* (Lamiaceae); MAO GUO XIANG CHA CAI; Hairyfruit Rabdosia*. Isolated compounds: 5605, 6770, 6771, 6803, 6804, 6806, 6808, 16183, 21561, 21563, 21564, 21565, 21566, 21567, 21568, 21569, 21570, 21571, 21572, 21573, 21574.
- T3531 *Isodon trichocarpus* (Lamiaceae); HEI HUA YAN MING CAO; Blackflower Rabdosia*. Isolated compounds: 11382, 15652.
- T3532 *Isodon umbrosa* (Lamiaceae); YIN DI KUAN YE XIANG CHA CAI; Shady Broadleaf Rabdosia*. Isolated compounds: 3950, 3952, 3954, 3955, 3957, 18509, 22200, 22201, 22202.
- T3533 *Isodon umbrosa* var. *latifolia* (Lamiaceae); YIN DI XIANG CHA CAI; Shady Rabdosia*. Isolated compounds: 12121, 12122, 12123, 12124, 12125, 12712, 13629, 18463, 18476.
- T3534 *Isodon weisiensis* (Lamiaceae); WEI XI XIANG CHA CAI; Weisi Rabdosia. Isolated compounds: 22657.
- T3535 *Isodon wikstroemioides* (Lamiaceae); YAO HUA XIANG CHA CAI; Stringbushlike Rabdosia. Isolated compounds: 22669, 22670, 22671, 22672.
- T3536 *Isodon xerophilus* (Lamiaceae); HAN SHENG XIANG CHA CAI; Dry-living Rabdosia. Isolated compounds: 6785, 12958, 18504, 18931, 22786, 22787, 22788, 22789, 22790, 22791, 22792, 22793, 22794, 22795.
- T3537 *Isolona cauliflora* (Annonaceae); JING SHENG HUA AI SUO LUO NA. Isolated compounds: 3336, 3337, 3338, 3339.
- T3538 *Isolona maitlandii* (Annonaceae). Isolated compounds: 15797.
- T3539 *Isoplexis scaptrum* (Plantaginaceae). Isolated compounds: 19462.
- T3540 *Isopyrum thalictroides* (Ranunculaceae); TANG SONG CAO ZHUANG BIAN GUO CAO; Meadowruelike Isopyrum. Isolated

- compounds: 11640, 11641, 11737.
- T3541 *Isotoma longiflora* [Syn. *Laurentia longiflora*] (Campanulaceae); TONG BAN CAO; Longflower *Laurentia*. Isolated compounds: 12937.
- T3542 *Iva asperifolia* (Asteraceae); CAO YE YI WA JU. Isolated compounds: 1888.
- T3543 *Iva frutescens* (Asteraceae); YI WA JU; Sumpweed. Isolated compounds: 3388, 9564.
- T3544 *Iva microcephala* (Asteraceae). Isolated compounds: 18029.
- T3545 *Iva nevadensis* (Asteraceae); NEI HUA YI WA JU. Isolated compounds: 16674.
- T3546 *Iva* sp. (Asteraceae). Isolated compounds: 4087.
- T3547 *Ixeris chinensis* (Asteraceae); SHAN KU MAI; China *Ixeris*. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disperse swelling and expel pus, cool blood and stanch bleeding. TCM Indications: Intestinal welling abscess, pulmonary welling abscess, lung heat cough, enteritis, dysentery, cholecystitis, pelvic inflammation, swelling toxin of sore and boil, scrotal eczema, blood ejection, spontaneous external bleeding, flooding, knocks and falls. Isolated compounds: 3533, 3534, 3535, 11798, 11802, 11803, 12446.
- T3548 *Ixeris sonchifolia* (Asteraceae); BAO JING KU MAI CAI; Sowthistle-leaf *Ixeris*. Used part: whole herb. TCM Effects: To relieve pain and disperse swelling, clear heat and resolve toxin. TCM Indications: Headache, toothache, stomachache, postoperative pain, painful wound from knocks and falls, appendicitis, enteritis, pulmonary abscess, sore swollen throat, swelling welling abscess and sore and boil. Isolated compounds: 618, 11799, 11800, 11801, 20703.
- T3549 *Ixora chinensis* (Rubiaceae); LONG CHUAN HUA; Chinese *Ixora*. Used part: flower. TCM Effects: To clear heat and cool blood, dissipate stasis and relieve pain. TCM Indications: Hypertension, menstrual disorder, amenorrhea, knocks and falls, swelling of sores and boils. Isolated compounds: 8277.
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- T3550 *Jackiella javanica* (Hepaticae); ZHAO WA JIA KE TAI; Japanese liverwort. Isolated compounds: 4303, 7218, 7502, 22429, 22430.
- T3551 *Jamesonia scammanae*. Isolated compounds: 18154.
- T3552 *Jamesoniella autumnalis* (Jungermanniaceae); QIU YUAN YE TAI. Isolated compounds: 6999.
- T3553 *Jamesoniella colorata* (Jungermanniaceae); YUAN YE TAI; *Jamesoniella colorata*. Isolated compounds: 6474, 9478, 10302, 10568, 10569, 10570, 11813, 11814, 11815, 16369, 22626.
- T3554 *Jasminum grandiflorum* (Oleaceae); SU XIN HUA; Largeflower Jasmine*. Used part: flower bud. TCM Effects: To soothe the liver and resolve depression, move *qi* and relieve pain. TCM Indications: Pain in stomach duct and rib-side due to liver *qi* depression, abdominal pain and diarrhea. Isolated compounds: 11824, 11825.
- T3555 *Jasminum nudiflorum* (Oleaceae); YING CHUN HUA; Winter Jasmine. Used part: leaf. TCM Effects: To clear heat, resolve toxin, disinhibit damp. TCM Indications: Common cold with fever, dribbling pain of urination, pruritus of vulva, swelling toxin malign sore, knocks and falls, bleeding knife wound. Isolated compounds: 11575, 11826, 11827, 11828, 11829, 11830, 11831, 11832, 15863.
- T3556 *Jasminum officinale* (Oleaceae); SU FANG HUA; Common White Jasmine. Isolated compounds: 11824.
- T3557 *Jasminum sambac* (Oleaceae); MO LI HUA; Arabian Jasmine. Used part: flower. TCM Effects: To rectify *qi* and relieve pain, repel foulness and open depression. TCM Indications: Dysentery, dizziness and headache, red eyes, sore toxin. Isolated compounds: 7391, 11824, 12851, 14540.
- T3558 *Jasminum* sp. (Oleaceae). Isolated compounds: 11025.
- T3559 *Jateorhiza palmata* (Menispermaceae); FEI ZHOU FANG JI; Calumba Root. Isolated compounds: 3484, 16551, 16555.
- T3560 *Jatropha curcas* (Euphorbiaceae); MA FENG SHU; Leprous Tree. Used part: bark and leaf. TCM Effects: To dissipate stasis and disperse swelling, stanch bleeding, relieve pain, kill worms and relieve itch. TCM Indications: Stasis swelling from knocks and falls, fracture and pain, contusion in joints, bleeding from wounds, leprosy (leprosy), scab and lichen, eczema, tinea capitis, ulcer of lower limb, foot lichen, trichomonas vaginalis. Isolated compounds: 254, 385, 3510, 6043, 11836, 11837, 11838, 11839, 11840, 11841, 11842, 11848, 11850, 16552, 16553, 16554.
- T3561 *Jatropha gossypifolia* (Euphorbiaceae); MIAN YE MA FENG SHU; Cotton-leaf Leprous Tree*. Isolated compounds: 11849.
- T3562 *Joannesia princeps* (Euphorbiaceae); BA XI QIAO AN MU; Brazilian Joan-wood*. Isolated compounds: 2440, 11212, 11213, 11214, 11215, 11612, 17860.
- T3563 *Juglans cinerea* (Juglandaceae); HUI HU TAO; Butternut. Isolated compounds: 3983.
- T3564 *Juglans mandshurica* (Juglandaceae); HU TAO QIU; Manchurian Walnut. Used part: bark. TCM Effects: To clear heat and dry damp, drain liver and brighten eyes. TCM Indications: Damp-heat dysentery, yellow thick vaginal discharge, red eyes with gall, sty, tearing with wind, bone tuberculosis. Isolated compounds: 5373, 5374, 5375, 10187, 10747, 18588.
- T3565 *Juglans mandshurica* var. *sieboldiana* (Juglandaceae); DONG BEI HU TAO; Northeast Walnut*. Isolated compounds: 6005, 6006, 6007, 6145, 10460, 10461, 10746, 10747, 11898, 11899, 11900, 11901, 11902, 15253, 18588.
- T3566 *Juglans nigra* (Juglandaceae); HEI HU TAO; Black Walnut. Isolated compounds: 11903, 15184, 19910.
- T3567 *Juglans regia* (Juglandaceae); HU TAO QING PI; English Walnut Exocarp. Used part: exocarp. TCM Effects: To relieve pain, relieve cough, check diarrhea, resolve toxin, kill worms. TCM Indications: Pain in stomach duct and abdomen, dysmenorrhea, enduring cough, chronic diarrhea and dysentery, swelling toxin of welling abscess and sore, intractable lichen, bald sores, white patch wind. Isolated compounds: 9719, 9720.
- T3568 *Juglans regia* (Juglandaceae); HU TAO REN; English Walnut Seed. Used part: seed. TCM Effects: To supplement kidney and boost essence, warm lung and settle asthma, moisten intestines and free stool. TCM Indications: Enduring cough and asthma, bronchitis, lumbago and limp leg, frequent urination, enuresis, impotence, emission, intestinal dry and constipation, stone strangury, sores and scrofula. Isolated compounds: 617, 618, 2331, 3301, 3303, 3774, 5521, 7518, 8504, 8505, 8506, 9502, 9719, 9720, 10536, 11903, 12850, 14612,

- 15255, 16765, 17754, 19056, 19277, 20256, 20310, 20389, 20910.
- T3569 *Juglans regia* (Juglandaceae); HU TAO SHU PI; English Walnut Bark. Used part: bark. TCM Effects: To astringe intestines and check diarrhea, resolve toxin, relieve itch. TCM Indications: Diarrhea, dysentery, leprosy, scrotal wind, itchy skin. Isolated compounds: 18588.
- T3570 *Juglans regia* (Juglandaceae); HU TAO YE; English Walnut Leaf. Used part: leaf. TCM Effects: To promote contraction and check discharge, kill worms, disperse swelling. TCM Indications: Vaginal discharge, scab sore, elephantiasis. Isolated compounds: 6731, 8095, 9721, 11897, 15926.
- T3571 *Juglans* sp. (Juglandaceae). Isolated compounds: 19174.
- T3572 *Juglans* spp. (Juglandaceae). Isolated compounds: 10887, 16765.
- T3573 *Juliania adstringens* (Julianiaceae). Isolated compounds: 6470, 6471, 6478, 10089, 10090, 10363, 10364, 10585, 10586, 13591, 15931, 16050, 16402, 19983.
- T3574 *Junceella fragilis* (Gorgonidae); CUI DENG XIN LIU SHAN HU; Gorgonian *Junceella fragilis*. Isolated compounds: 5296, 11944, 11947, 11948, 17755.
- T3575 *Junceella gemmacea* (Gorgonidae); LEI DENG XIN LIU SHAN HU; Gorgonian *Junceella gemmacea*. Isolated compounds: 5296.
- T3576 *Junceella juncea* (Gorgonidae); DENG XIN LIU SHAN HU; Gorgonian *Junceella juncea*. Isolated compounds: 8264, 8265, 10548, 11945, 11946, 11949, 11950, 11951, 11952, 11953, 11954, 11955, 11956, 11957, 17755.
- T3577 *Juncus acutus* (Juncaceae); JIAN DENG XIN CAO; Acute Rush*. Isolated compounds: 5861, 6046, 6223, 7403, 17274.
- T3578 *Juncus effusus* (Juncaceae); DENG XIN CAO; Common Rush. Used part: whole herb. TCM Effects: To disinhibit water and free strangury, clear heart and downbear fire. TCM Indications: Strangury, edema, inhibited urination, damp-heat jaundice, insomnia and vexation, infant night crying, throat impediment, mouth sore, wound. Isolated compounds: 9500, 9893, 9894, 10101, 10102, 11958, 11959, 11960, 13772, 13924, 14922, 15814, 21612.
- T3579 *Jungermannia exsertifolia* ssp. *cordifolia* (Jungermanniaceae); XIN XING SHEN YE YE TAI. Isolated compounds: 3167, 3168, 3177.
- T3580 *Jungermannia* sp. (Jungermanniaceae); XIN XI LAN YE TAI. Isolated compounds: 10274, 10287, 11962, 12167.
- T3581 *Jungermannia truncata* (Jungermanniaceae); JIE XING YE TAI. Isolated compounds: 172, 201, 5703, 5934, 5935, 7103, 7158, 10278, 10279, 10280, 10283, 10284, 10286, 10287, 10288, 12174, 12182, 18938.
- T3582 *Juniperus chinensis* var. *kaizuka* (Cupressaceae); LONG BAI; Dragon Juniper. Isolated compounds: 6476, 7047, 9745, 16418.
- T3583 *Juniperus communis* (Cupressaceae); OU ZHOU CI BAI; Common Juniper. Isolated compounds: 9, 2850, 3354, 4281, 4916, 6819, 11961, 11966, 15705, 19983, 20465.
- T3584 *Juniperus communis* var. *depressa* (Cupressaceae); OU ZHOU CI BAI BIAN ZHONG; Common Juniper Variety*. Isolated compounds: 4035, 13642, 13643, 16079, 21765.
- T3585 *Juniperus conferta* (Cupressaceae); AN CI BAI; Shore Juniper. Isolated compounds: 15412.
- T3586 *Juniperus erectopatens* (Cupressaceae); ZHI LI CI BAI; Erect Juniper*. Isolated compounds: 17780.
- T3587 *Juniperus excelsa* (Cupressaceae); GAO DA CI BAI; High Juniper*. Isolated compounds: 11967.
- T3588 *Juniperus formosana* (Cupressaceae); CI BAI; Taiwan Juniper. Used part: root and root cortex or branch-leaf. TCM Effects: To clear heat and resolve toxin, dry damp and relieve itch. TCM Indications: Measles papules with ardent fever, eczema, lichen sore. Isolated compounds: 12402, 12412.
- T3589 *Juniperus horizontalis* (Cupressaceae); PING PU YUAN BAI; Creeping Juniper. Isolated compounds: 4376.
- T3590 *Juniperus macropoda* (Cupressaceae); CHANG BING YUAN BAI; Longpetiole Juniper*. Isolated compounds: 11141.
- T3591 *Juniperus occidentalis* (Cupressaceae); XI FANG CI BAI; Western Juniper. Isolated compounds: 1030, 4376, 10688, 11968, 11969.
- T3592 *Juniperus oxycedrus* (Cupressaceae); CI GUI; Prickly Juniper. Isolated compounds: 15705, 22920.
- T3593 *Juniperus phoenicea* (Cupressaceae); FEI NI JI CI BAI; Poenician Juniper. Isolated compounds: 10271, 11760, 11965, 13897, 14317, 14495, 14496, 14504, 14644, 14647.
- T3594 *Juniperus rigida* (Cupressaceae); DU SONG SHI; Stiffleaf Juniper Fruit. Used part: fruit. TCM Effects: To dispel wind, settle pain, eliminate damp, disinhibit urine. TCM Indications: Rheumatic arthritis, pain wind, nephritis, edema, urinary tract infection. Isolated compounds: 555, 556, 557, 562, 563, 1030, 1186, 2412, 2550, 2935, 2936, 3194, 3241, 3242, 3768, 4281, 4550, 4916, 5747, 6198, 7410, 7729, 7764, 9543, 9669, 10688, 13825, 13826, 15412, 17588, 20465, 22770.
- T3595 *Juniperus sabina* (Cupressaceae); CHA ZI YUAN BAI; Savin Juniper. Isolated compounds: 1372, 16797, 17337, 17341, 17342, 17347, 17592, 19101, 19427.
- T3596 *Juniperus sabina* var. *tamariscifolia* (Cupressaceae); CHENG LIU YE YUAN BAI; Tamarisk-leaf Juniper*. Isolated compounds: 1372.
- T3597 *Juniperus scopulorum* (Cupressaceae); LUO JI SHAN YUAN BAI; Western Red Cedar. Isolated compounds: 11421, 19121.
- T3598 *Juniperus silicicola* (Cupressaceae); NAN MEI ZHOU GUI; Southern Red-cedar. Isolated compounds: 1372.
- T3599 *Juniperus* sp. (Cupressaceae). Isolated compounds: 5543, 18864.
- T3600 *Juniperus taiwaniana* (Cupressaceae); SHAN CI BAI; Taiwan Juniper. Used part: root or fruit. TCM Indications: Enduring low fever, skin lichen. Isolated compounds: 15703, 21346, 21347, 21348, 22052.
- T3601 *Juniperus thurifera* (Cupressaceae); RU XIANG BAI; Mastic Juniper*. Isolated compounds: 3352, 3353, 17337.
- T3602 *Juniperus thurifera* var. *africana* (Cupressaceae); XIANG CI BAI FEI ZHOU BIAN ZHONG; Mastic Africa Juniper*. Isolated compounds: 11760, 13897, 14317, 14495, 14496, 14504, 14644, 14647.
- T3603 *Juniperus virginiana* (Cupressaceae); BEI MEI YUAN BAI; Red Cedar. Isolated compounds: 3350, 3354, 17592.
- T3604 *Jurinea alata* (Asteraceae); YI CHI LING JU; Winged Jurinea*. Isolated compounds: 837.
Jurinea souliei = *Vladimiria souliei*
- T3605 *Justicia betonica* (Acanthaceae); YAO SHUI SU JUE CHUANG. Isolated compounds: 11983, 11984, 11985, 11986.
- T3606 *Justicia ghiesbreghtiana* (Acanthaceae). Isolated compounds: 11976.

- T3607 *Justicia heterocarpa* (Acanthaceae). Isolated compounds: 12799.
- T3608 *Justicia hyssopifolia* (Acanthaceae). Isolated compounds: 11982, 19427.
Justicia paniculata = *Andrographis paniculata*
Justicia procumbens = *Rostellularia procumbens*
- T3609 *Justicia procumbens* var. *leucantha* (Acanthaceae); BAI HUA JUE CHUANG; Whiteflower Rostellularia. Isolated compounds: 11979.
Justicia purpurea = *Hypoestes purpurea*
- T3610 *Justicia simplex* (Acanthaceae); DAN JUE CHUANG; Simple Rostellularia. Isolated compounds: 11979, 19903.

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- T3611 *Kadsura ananosma* (Schisandraceae); BO LUO XIANG TENG. Isolated compounds: 1136, 1136, 1137, 1138, 1139, 1248.
- T3612 *Kadsura angustifolia* (Schisandraceae); XIA XIE NAN WU WEI ZI; Narrowleaf Kadsura*. Isolated compounds: 1246, 1247, 1248.
Kadsura chenensis = *Kadsura coccinea*
- T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*] (Schisandraceae); LENG FAN TUAN[yn; Blacktiger Kadsura. Used part: root and trailing stem. TCM Effects: To move *qi* and relieve pain, free network vessels and dissipate stasis. TCM Indications: Gastric ulcer, duodenal ulcer, chronic gastritis, acute gastroenteritis, wind-damp impediment pain, knocks and falls, fracture, dysmenorrhea, postpartum blood stasis abdominal pain, mounting *qi* (hernia). Isolated compounds: 144, 145, 2245, 3861, 9928, 9929, 11229, 11469, 11992, 11996, 11997, 12003, 12011, 12014, 14356, 15422, 15423, 19493, 19494, 19495, 19496.
Kadsura hainanensis = *Kadsura coccinea*
- T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*] (Schisandraceae); YI XING NAN WU WEI ZI; Curious Kadsura. Used part: root or lianoid stem. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, stomachache, abdominal pain, dysmenorrhea, postpartum abdominal pain, knocks and falls, chronic pain in lumbus and legs. Isolated compounds: 144, 145, 9460, 9461, 9462, 9463, 9464, 9465, 9466, 9928, 9929, 11993, 11994, 13522, 15419, 19629.
- T3615 *Kadsura interior* (Schisandraceae); NEI NAN WU WEI ZI; Fengqing Kadsura. Used part: lianoid stem. TCM Effects: To engender blood and harmonize blood, regulate menstruation and promote pregnancy. TCM Indications: *Qi* blood vacuity depletion, paralysis in limbs, wind-damp impediment pain, vacuity detriment sterility, emission, white turbidity, menstrual disorder, red and white vaginal discharge. Isolated compounds: 1210, 8906, 8908, 8912, 9463, 9465, 11099, 11100, 11101, 11102, 11103, 11103, 11104, 11104, 11105, 11106, 12012, 15422, 19497.
- T3616 *Kadsura japonica* (Schisandraceae); RI BEN NAN WU WEI ZI; Japanese Kadsura. Isolated compounds: 333, 12003, 12012.
- T3617 *Kadsura lancilimba* (Schisandraceae); PI ZHEN YE NAN WU WEI ZI; Lanceolate Kadsura*. Isolated compounds: 12477, 12478, 12479.
Kadsura longipedunculata = *Kadsura peltigera*
- T3618 *Kadsura matsudai* (Schisandraceae). Isolated compounds: 12004, 19500, 19501, 19502, 20646.
- T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*] (Schisandraceae); CHANG GENG NAN WU WEI ZI; Longpeduncle Kadsura. Used part: root or root cortex. TCM Effects: To move *qi*, quicken blood, relieve pain. TCM Indications: *Qi* stagnation abdominal distention, abdominal pain, stomachache, pain in sinews and bones, dysmenorrhea, knocks and falls, innominate toxin swelling. Isolated compounds: 1206, 1207, 1208, 1466, 2381, 3476, 11991, 11992, 11993, 11995, 11998, 11999, 12000, 12001, 12002, 12003, 12013, 12966, 12967, 12968, 15419, 15420, 15421, 16290, 16352, 19479, 19480, 19483, 19484, 19485, 19486, 19492, 19497, 19499.
- T3620 *Kaempferia galanga* (Zingiberaceae); SHAN NAI; Galanga Resurrectionlily. Used part: rhizome. TCM Effects: To warm center and move *qi*, disperse food, relieve pain. TCM Indications: Distention fullness in chest and diaphragm, cold pain in stomach duct and abdomen, non-digestion of food accumulation. Isolated compounds: 2550, 3194, 7430, 7460, 7474, 9088, 12015, 12020, 14060, 14096, 15938, 17056, 17136, 21953, 21972.
- T3621 *Kaempferia marginata* (Zingiberaceae); KU SHAN NAI; Bitter . Isolated compounds: 13560.
- T3622 *Kaempferia pandurata* (Zingiberaceae); TI QIN ZHUANG SHAN NAI; Fiddle-leaf Resurrectionlily*. Isolated compounds: 16603.
- T3623 *Kalmia latifolia* (Ericaceae); KUAN YE SHAN YUE GUI; Mountain Laurel. Isolated compounds: 17170.
- T3624 *Kalopanax pictum* (Araliaceae); ZHUO SE CI QIU; Picture Kalopanax*. Used part: bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, numbness in limbs, wind-fire toothache, knocks and falls, fracture, swelling of welling abscess, welling abscess and flat abscess with swelling sore, mouth sore, swelling hemorrhoids, sore and lichen. Isolated compounds: 9276, 17350, 17351.
- T3625 *Kalopanax septemlobus* (Araliaceae); CI QIU SHU PI; Septemlobate Kalopanax Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, numbness in limbs, wind-fire toothache, knocks and falls, fracture, swelling of welling abscess, welling abscess and flat abscess with swelling sore, mouth sore, swelling hemorrhoids, sore and lichen. Isolated compounds: 3823, 9276, 12118, 12119.
- T3626 *Kandelia candel* (Rhizophoraceae); QIU QIE SHU; Kandelia. Isolated compounds: 678, 12128.
- T3627 *Kayea assamica* (Clusiaceae); *Kayea assamica*. Isolated compounds: 21313, 21314, 21315, 21316.
- T3628 *Kerria japonica* (Rosaceae); DI TANG HUA; Japanese Kerria Flower. Used part: flower or branchlet-leaf. TCM Effects: To relieve cough and transform phlegm, disinhibit damp and disperse swelling, resolve toxin. TCM Indications: Cough, wind-damp impediment pain, postpartum vacuity taxation, edema, inhibited urination, indigestion, swelling toxin of welling abscess and flat abscess, eczema, urticaria. Isolated compounds: 834, 8967, 9290, 13134, 16756.
- T3629 *Kigelia pinnata* (Bignoniaceae); DIAO DENG SHU; Sausagetreer. Isolated compounds: 5174, 9988, 10105, 10107, 10825, 12225, 12501.
- T3630 *Kleinhovia hospita* (Myristicaceae); MIAN TOU YE; Smallleaf

- Knema. Used part: leaf. TCM Effects: To kill worms, treat lichen, dry damp and resolve itch. TCM Indications: Scab sore, lichen, erythra itch-pain, head louse. Isolated compounds: 15525, 19087.
- T3631 *Knema globularia* (Myristicaceae); XIAO YE HONG GUANG SHU; Small-leaf Knema. Isolated compounds: 5699, 13648, 20481.
- T3632 *Knoxia valerianoides* (Rubiaceae); HONG YA DA JI; Red Knoxia. Used part: root. TCM Effects: To drain water and expel rheum, resolve toxin and dissipate binds. TCM Indications: Edema distention fullness, phlegm-rheum rapid asthma, swelling toxin of welling abscess and sore. Isolated compounds: 10530, 12237, 18329, 21730.
- T3633 *Kobresia nepalensis* (Cyperaceae); NI BO ER SONG CAO; Nepal Kobresia*. Isolated compounds: 15478, 15479, 15480, 15481.
- T3634 *Koelipinia linearis* (Asteraceae); XIE WEI JU; Linear Koelipinia. Isolated compounds: 663, 8351, 12243, 12244, 12245, 15774, 20713.
- T3635 *Koelreuteria paniculata* (Sapindaceae); LUAN HUA; Paniculate Goldraintree Flower. Used part: flower. TCM Effects: To clear liver and brighten eyes. TCM Indications: Eye pain, eye swelling, red eyes and tearing. Isolated compounds: 3340, 12246, 14454.
- T3636 *Koelreuteria paniculata* (Sapindaceae); LUAN SHU; Paniculate Goldraintree Root-bark. Used part: root cortex. TCM Effects: To clear liver and brighten eyes. TCM Indications: Eye pain and tearing, red eyes with gall. Isolated compounds: 5511, 5512, 6727, 6728, 7458, 7470, 16607, 16608, 18412, 21042.
- T3637 *Koelreuteria* spp. (Sapindaceae). Isolated compounds: 12642.
- T3638 *Kokoona ochracea* ZHE HUANG KAO GU NA; Brown-yellow Kokoona*. Isolated compounds: 15919, 15920, 15921, 15922, 15923.
- T3639 *Kopsia flavida* (Apocynaceae); HUANG HONG SE RUI MU; Yellow-red Kopsia*. Isolated compounds: 14319, 14584, 14585, 14596.
- T3640 *Kopsia fruticosa* (Apocynaceae); HONG HUA RUI MU; Redflower Kopsia. Isolated compounds: 6473, 6878, 6941, 10293, 10517, 12261, 12262, 12263, 12264, 12265, 12266, 12267, 12268, 12269, 12988, 17555, 22372, 22373, 22374.
- T3641 *Kopsia griffithii* (Apocynaceae); MA LAI XI YA RUI MU; Malaysia Kopsia*. Isolated compounds: 827, 6879, 14373.
- T3642 *Kopsia longiflora* (Apocynaceae); CHANG HUA RUI MU; Longflower Kopsia*. Isolated compounds: 12268.
- T3643 *Kopsia officinalis* (Apocynaceae); YUN NAN RUI MU; Medicinal Kopsia. Used part: fruit and leaf. TCM Effects: To dispel wind and quicken network vessels, eliminate inflammation and relieve pain. TCM Indications: Swelling pain in throat, wind-damp impediment pain, numbness in limbs. Isolated compounds: 17556.
- T3644 *Kopsia pauciflora* (Apocynaceae); SHAO HUA RUI MU; Fewflower Kopsia*. Isolated compounds: 16731, 16732.
- T3645 *Kummerowia striata* (Fabaceae); JI YAN CAO; Striate Kummerowia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, fortify spleen and disinhibit damp, quicken blood and stanch bleeding. TCM Indications: Common cold with fever, summerheat-damp vomiting and diarrhea, jaundice, welling abscess boil and clove sores, dysentery, gan disease, blood strangury, coughing of blood, spontaneous external bleeding, knocks and falls, red and white vaginal discharge. Isolated compounds: 1476, 1492, 12020, 13137, 13145, 18409.
- T3646 *Kyllinga brevifolia* (Cyperaceae); SHUI WU GONG; Shortleaf Kyllinga. Used part: whole herb with rhizome. TCM Effects: To course wind and resolve exterior, clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Common cold with headache and fever, acute bronchitis, pertussis, malaria, jaundice, dysentery, chyluria, toxin swelling of sores, itchy skin, poisonous snake bite, knocks and falls, rheumatic arthritis. Isolated compounds: 22581.

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- T3647 *Lablab niger* (Fabaceae); BIAN DOU; Niger Bean*. Isolated compounds: 17047.
- T3648 *Laburnum anagyroides* (Fabaceae); DU DOU; Goldenchain Laburnum. Isolated compounds: 1134, 4594, 15555.
- T3649 *Laccifer lacca* (Lacciferidae); ZI CAO RONG; Lac. Used part: gum of lac insect. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Measles papules, non-eruption of measles, postpartum blood dizziness, vaginal discharge, swelling toxin of sore and scab. Isolated compounds: 887.
- T3650 *Lactarius helvus* (Russulaceae). Isolated compounds: 18273.
- T3651 *Lactarius necator* (Russulaceae). Isolated compounds: 17433, 17446.
- T3652 *Lactarius pergamenus* (Russulaceae); SI YANG PI ZHI RU GU; Parchment-like Milky*. Isolated compounds: 18273.
- T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*] (Russulaceae); LA RU GU; Peppery Milky. Used part: sporocarp. TCM Effects: To dispel wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Pain in lumbus and legs, numbness in limbs, hypertonicity of sinews and bones, convulsion of limbs. Isolated compounds: 17433, 17446, 22364.
- T3654 *Lactarius rolemus* (Russulaceae); DUO ZHI RU GU; Juicy Milky*. Isolated compounds: 7245.
- T3655 *Lactarius subvellereus* (Russulaceae); YA RONG GAI RU GU; Subtomentose Milky*. Isolated compounds: 3422.
- T3656 *Lactarius torminosus* (Russulaceae); MAO TOU RU GU; Pink-fringed Milky. Isolated compounds: 17433, 17446.
- T3657 *Lactarius vellereus* (Russulaceae); RONG BAI RU GU; Fleecy Milk-cap. Used part: sporocarp. TCM Effects: To track wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Numbness in limbs, hemiplegia. Isolated compounds: 10308, 10309, 10822, 11475, 11768, 12433, 12435, 18273, 22364, 22365, 22366, 22367.
- T3658 *Lactuca canadensis* (Asteraceae); JIA NA DA WO JU; Canada Lettuce. Isolated compounds: 12447.
- T3659 *Lactuca indica* (Asteraceae); SHAN WO JU; Indian Lettuce. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Swelling pain in throat, intestinal welling abscess, swelling pain of sore and boil, postpartum blood stasis abdominal pain, wart, flooding and spotting, bleeding from hemorrhoids. Isolated compounds: 1113, 1476, 3551, 8351, 11642, 12441, 12442, 12443, 12444, 13137, 13147, 18317, 19087, 20369.
- T3660 *Lactuca laciniata* (Asteraceae); SUI BIAN WO JU; Lacinate Lettuce*. Isolated compounds: 12446.

- T3661 *Lactuca sariola* (Asteraceae); SA LI LA WO JU; Sariola Lettuce*. Isolated compounds: 12446.
- T3662 *Lactuca sativa* (Asteraceae); WO JU; Garden Lettuce. Used part: seed. TCM Effects: To disinhibit urine, free milk, clear heat and resolve toxin. TCM Indications: Inhibited urination, hematuria, galactostasis, snake or insect bites, toxin swelling. Isolated compounds: 5564, 12446, 13147, 18374.
- T3663 *Lactuca serriola* (Asteraceae); YE WO JU; Prickly Lettuce. Isolated compounds: 5187, 12447.
- T3664 *Lactuca virosa* (Asteraceae); DU WO JU; Blue Lettuce. Isolated compounds: 12446, 12447.
- T3665 *Laetia corymbulosa* (Flacourtiaceae). Isolated compounds: 4111, 4112, 4113.
- T3666 *Laetiporus sulphureus* var. *miniatus* (Polyporaceae); ZHU HONG LIU HUANG SE XUN KONG JUN; Vermeil-sulphureous Laetiporus*. Isolated compounds: 13592, 13593.
- T3667 *Lagenaria breviflora* (Cucurbitaceae); DUAN HUA HU LU; Shortflower Bottle Gourd*. Isolated compounds: 8065.
- T3668 *Lagenaria siceraria* var. *depressa* (Cucurbitaceae); HU GUA; Bottle Gourd. Used part: fruit. TCM Effects: To disinhibit water, disperse swelling, free strangury, dissipate binds. TCM Indications: Edema, ascites, jaundice, diabetes mellitus, strangury, swollen welling abscess. Isolated compounds: 4317.
- T3669 *Lagerstroemia fauriei* (Lythraceae); FU RUI ZI WEI; Faurie Crapemyrtle*. Isolated compounds: 22433.
Lagerstroemia flos-reginae = *Lagerstroemia speciosa*
- T3670 *Lagerstroemia indica* (Lythraceae); ZI WEI GEN; Common Crapemyrtle Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and stanch bleeding, relieve pain. TCM Indications: Swelling toxin of sore and welling abscess, toothache, dysentery. Isolated compounds: 21955.
- T3671 *Lagerstroemia indica* (Lythraceae); ZI WEI HUA; Common Crapemyrtle Flower. Used part: flower. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Postpartum flooding, concretion and conglomeration, flooding, vaginal discharge, scab and lichen, *lai*. Isolated compounds: 4832, 5012, 8095, 14454, 14547, 17025.
- T3672 *Lagerstroemia indica* (Lythraceae); ZI WEI YE; Common Crapemyrtle Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp and stanch bleeding. TCM Indications: Dysentery, eczema, bleeding due to external injury. Isolated compounds: 4832, 4848, 4856, 5736, 12450.
- T3673 *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*] (Lythraceae); DA HUA ZI WEI; Queen Crapemyrtle. Used part: root and leaf. TCM Effects: To close sores, resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 18206.
- T3674 *Laggera alata* (Asteraceae); LIU LENG JU; Winged Laggera. Used part: whole herb. TCM Effects: To dispel wind, eliminate damp, transform stagnation, dissipate stasis, disperse swelling, resolve toxin. TCM Indications: Common cold with cough, generalized pain, diarrhea, painful joints due to rheumatism, menstrual block, knocks and falls, welling abscess and clove sore, scrofula, damp toxin with pruritus. Isolated compounds: 838, 839, 840, 841, 842, 4126, 7493, 9939, 9940, 9941, 10072, 10223, 10224, 10225, 10987, 11349, 16361, 21021, 21627.
Lagopsis supina = *Marrubium supinum*
- T3675 *Lagopsis supina* (Lamiaceae); XIA ZHI CAO; Lagopsis. Used part: whole herb. TCM Effects: To nourish body and quicken blood, clear heat and disinhibit damp. TCM Indications: Menstrual disorder, postpartum abdominal pain due to stasis obstruction, dizzy head due to blood vacuity, hemiplegia, knocks and falls, edema, inhibited urination, red eyes with gall, welling abscess and sores, frostbite (kibe), toothache, itchy skin. Isolated compounds: 1484, 1487.
- T3676 *Lagotis stolonifera* (Scrophulariaceae); PU FU JING TU ER CAO; Creeping Lagotis*. Isolated compounds: 18219.
- T3677 *Laguncularia racemosa* (Combretaceae); JIA HONG SHU; White Mangrove. Isolated compounds: 13296.
- T3678 *Laminaria japonica* (Laminariaceae); KUN BU; Kelp Thallus. Equivalent plant: *Ecklonia kurume*, *Undaria pinnatifida*. Used part: dried thallus. TCM Effects: To soften hardness and dissipate binds, dispel phlegm, disinhibit water. TCM Indications: Goiter and tuberculosis, scrofula, bleeding, painful swollen testes, phlegm-rheum and edema, prevention of cataracts. Isolated compounds: 9392, 9495, 12457, 13504, 13608, 14555, 15962, 15980.
- T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*] (Lamiaceae); DU YI WEI; Common Lamiophlomis. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, disperse swelling and relieve pain. TCM Indications: Knocks and falls, pain in sinews and bones, swelling pain in joints, dysmenorrhea, flooding and spotting. Isolated compounds: 1497, 1504, 4959, 12459, 12460, 12461, 12462, 12463.
- T3680 *Lamium amplexicaule* (Lamiaceae); BAO GAI CAO; Henbit Deadnettle. Used part: whole herb. TCM Effects: To quicken blood and free network vessels, resolve toxin and disperse swelling. TCM Indications: Knocks and falls, pain in sinews and bones, numbness in limbs, hemiplegia, facial paralysis, jaundice, deep-source nasal congestion, scrofula, toxin swelling, yellow-water sore. Isolated compounds: 11128, 12456, 12458, 12464.
- T3681 *Lamium barbatum* (Lamiaceae); YE ZHI MA; Barbate Deadnettle. Used part: flower or whole herb. TCM Effects: To cool blood and stanch bleeding, quicken blood and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Lung heat hemoptysis, blood strangury, vaginal discharge, menstrual disorder, vacuity fever in children, knocks and falls, toxin swelling. Isolated compounds: 12464, 22158.
Lamium chinense = *Galeobdolon chinense*
- T3682 *Lamium galeobdolon* (Lamiaceae); YOU CHOU YE ZHI MA; Stoat-osmyl Deadnettle*. Isolated compounds: 9858.
- T3683 *Lamium* sp. (Lamiaceae). Isolated compounds: 9238.
- T3684 *Lamptromyces japonicus* (Tricholomataceae); RI BEN CE ER. Isolated compounds: 12465.
Lannea coromandelica = *Lannea grandis*
- T3685 *Lannea grandis* [Syn. *Lannea coromandelica*] (Anacardiaceae); HOU PI SHU; Coromandel Lannea. Used part: bark. TCM Effects: To joint bones, resolve toxin. TCM Indications: Fracture, tetrodon poisoning, cassava poisoning, pineapple poisoning. Isolated compounds: 3852,

- 5825, 12488, 12714, 18378, 21909.
- T3686 *Lansium domesticum* (Meliaceae); ZAI ZHONG LANG SE MU; Cultivated Langsat*. Isolated compounds: 16305.
- T3687 *Lantana camara* (Verbenaceae); WU SE MEI; Common Lantana. Used part: leaf or branchlet. TCM Effects: To resolve toxin and disperse swelling, dispel wind and relieve itch. TCM Indications: Swollen welling abscess, damp toxin, scab and *lai*, sore toxin. Isolated compounds: 3024, 3025, 3026, 3027, 3028, 3241, 3242, 4550, 6169, 6537, 8276, 9486, 9669, 12490, 12491, 12492, 12493, 12494, 12495, 12496, 14208, 17696, 19987, 20255, 20280, 21327, 22396.
- T3688 *Lappula echinata* (Boraginaceae); DONG BEI HE SHI; European Stickseed. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Ascariasis, taeniasis, oxyuria disease. Isolated compounds: 618, 4184, 14083.
- T3689 *Lappula intermedia* (Boraginaceae); ZHONG JIAN HE SHI; Intermediate Stickseed. Isolated compounds: 12535.
Larix amabilis = *Pseudolarix amabilis*
- T3690 *Larix gmelini* (Pinaceae); LUO YE SONG; Dahurian Larch. Isolated compounds: 17876, 17884.
- T3691 *Larix* sp. (Pinaceae). Isolated compounds: 3981.
- T3692 *Larix* spp. (Pinaceae). Isolated compounds: 17399, 22581.
- T3693 *Larrea divaricata* (Zygophyllaceae); JI CHA KAI LA RUI A; Spreading Creosote-bush. Isolated compounds: 8289, 12526.
- T3694 *Larrea* sp. (Zygophyllaceae). Isolated compounds: 15741.
- T3695 *Larrea tridentata* (Zygophyllaceae); SAN CHI LA RUI A; Creosote-bush. Isolated compounds: 1476, 4940, 5652, 5864, 5865, 6942, 7742, 7743, 7744, 7745, 7746, 8289, 9423, 10077, 12070, 20978, 21105, 21711, 21771, 21857.
- T3696 *Lasianthus acuminatissimus* (Rubiaceae); CHANG WEI CU YE MU; Acuminate Lasianthus. Isolated compounds: 4716, 12531, 12532, 12533.
- T3697 *Lasianthus fordii* (Rubiaceae); Fordi Lasianthus*. Isolated compounds: 12528, 12529, 12530.
- T3698 *Lasianthus wallichii* (Rubiaceae); XIE JI CU YE MU; Wallich Lasianthus. Isolated compounds: 1892, 2296, 2477, 4659, 4716, 15697, 16516.
- T3699 *Lasiobema japonica* (Fabaceae). Isolated compounds: 18323.
- T3700 *Lasiodiplodia theobromae*; Fungus *Lasiodiplodia theobromae*. Isolated compounds: 3179, 4861, 9979, 9980, 10315, 11825, 21311.
- T3701 *Lasiosphaera fenlzii* (Lycoperdaceae); MA BO; Bark-less Puff-ball. Equivalent plant: *Lycoperdon pyriforme*. Used part: sporocarp. TCM Effects: To clear lung and disinhibit throat, stanch bleeding. TCM Indications: Cough, aphonia, nosebleed(epistaxis), bleeding due to external injury. Isolated compounds: 4879, 7250, 22246, 22251.
- T3702 *Lastrea thelpteris* (Thelypteridaceae). Isolated compounds: 18162.
- T3703 *Lathyrus cicera* (Fabaceae); BIAN JIA SHAN LI DOU; Dwarf Chickling Pea. Isolated compounds: 9596.
- T3704 *Lathyrus latifolius* (Fabaceae); SU GEN XIANG WAN DOU; Everlasting Pea. Isolated compounds: 1057, 5351.
- T3705 *Lathyrus montanus* (Fabaceae); SHAN DI XIANG WAN DOU; Bitter Vetch. Isolated compounds: 16209.
- T3706 *Lathyrus nissolia* (Fabaceae); HE CAO XIANG WAN DOU; Grass Vetchling. Isolated compounds: 15629.
- T3707 *Lathyrus odoratus* (Fabaceae); XIANG WAN DOU; Sweet Pea. Isolated compounds: 12542.
- T3708 *Lathyrus palustris* var. *pilosus* (Fabaceae); ROU MAO SHAN LI DOU; Pilosity Peavine*. Isolated compounds: 16579, 16580, 16581.
- T3709 *Lathyrus pratensis* (Fabaceae); MU DI XIANG WAN DOU; Meadow Peavine. Used part: whole herb. TCM Effects: To dispel phlegm and relieve cough. TCM Indications: Bronchitis, pneumonia, pulmonary welling abscess, tuberculosis, scab and lichen, sore and boil. Isolated compounds: 13145.
- T3710 *Lathyrus sativus* (Fabaceae); CAO XIANG WAN DOU; Indian Pea. Isolated compounds: 1058, 2845, 9596.
- T3711 *Lathyrus* sp. (Fabaceae). Isolated compounds: 10165, 13638.
- T3712 *Lathyrus* spp. (Fabaceae). Isolated compounds: 16209.
- T3713 *Lathyrus sylvestris* (Fabaceae); LIN SHENG SHAN LI DOU; Wild Pea. Isolated compounds: 5351.
- T3714 *Launaea* sp. (Asteraceae). Isolated compounds: 3635.
- T3715 *Laurencia caespitosa* (Delesseriaceae); CU SHENG AO DING ZAO; Cluster Concave-top Alga*. Isolated compounds: 15910.
- T3716 *Laurencia elata* (Delesseriaceae); GAO AO DING ZAO; High Concave-top Alga*. Isolated compounds: 6735.
- T3717 *Laurencia glandulifera* (Delesseriaceae); XIAO XIAN AO DING ZAO; Small-grand Concave-top Alga*. Isolated compounds: 8502.
- T3718 *Laurencia majuscula* (Delesseriaceae); LUE DA AO DING ZAO; Smaller Concave-top Alga*. Isolated compounds: 2623, 2624, 5399, 5400, 6735, 11570, 15910, 20343.
- T3719 *Laurencia mariannensis* (Delesseriaceae). Isolated compounds: 2620, 12616.
- T3720 *Laurencia nidifica* (Delesseriaceae); CHAO AO DING CAO. Isolated compounds: 11485, 12572.
- T3721 *Laurencia nipponica* (Delesseriaceae); HUANG SE AO DING CAO; Yellow Concave-top Alga*. Isolated compounds: 12565.
- T3722 *Laurencia obtusa* (Delesseriaceae); DUN XING AO DING ZAO; Blunt Concave-top Alga*. Isolated compounds: 15893, 15894, 15895, 15898, 15910, 16300.
- T3723 *Laurencia palisada* (Delesseriaceae); SHAN ZHUANG AO DING ZAO. Isolated compounds: 16542.
- T3724 *Laurencia* sp. (Delesseriaceae). Isolated compounds: 2450, 2451, 4595, 12615, 12617, 15899.
Laurentia longiflora = *Isotoma longiflora*
- T3725 *Laurus nobilis* (Lauraceae); YUE GUI YE; Grecian Laurel Leaf. Used part: leaf. TCM Effects: To fortify stomach and rectify *qi*. TCM Indications: Distending pain in stomach duct and abdomen, knocks and falls, scab and lichen. Isolated compounds: 4891, 9451, 9732, 12566, 15431, 22400, 22963.
- T3726 *Laurus nobilis* (Lauraceae); YUE GUI ZI; Grecian Laurel Fruit. Used part: fruit. TCM Effects: To dispel wind-damp, resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, tetrodon poisoning, scab and lichen, postauricular sore. Isolated compounds: 391, 585, 4128, 7521, 8312, 8337, 12564, 12566.
- T3727 *Lavandula luisieri* (Lamiaceae). Isolated compounds: 6350, 14392, 21193.
- T3728 *Lavandula officinalis* (Lamiaceae); YAO YONG XUN YI CAO; Medicinal Lavender*. Isolated compounds: 17408.

- T3729 *Lavandula* sp. (Lamiaceae). Isolated compounds: 3693.
- T3730 *Lavandula* spp. (Lamiaceae). Isolated compounds: 17054.
- T3731 *Lawsonia alba* (Lythraceae); BAI SAN MO HUA; White Henna*. Isolated compounds: 12580, 12581, 12582.
- T3732 *Lawsonia inermis* (Lythraceae); ZHI JIA HUA YE; Henna Leaf. Used part: leaf. TCM Effects: To clear heat and promote contraction. TCM Indications: Bleeding due to external injury. Isolated compounds: 12580, 15255, 21391.
- T3733 *Leandra chaetodon* (Melastomataceae). Isolated compounds: 1736, 5773.
- T3734 *Ledebouria graminifolia* (Hyacinthaceae); HE CAO YE JIA BEI FANG FENG. Isolated compounds: 5838, 5992, 10030, 10409, 10676, 21767, 21809, 21917.
Ledebouriella seseloides = *Saposhnikovia divaricata*
- T3735 *Ledum palustre* (Ericaceae); LA BA CHA; Crystal Tea. Isolated compounds: 16577.
Leibnitzia anandria = *Gerbera anandria*
- T3736 *Lemmaphyllum microphyllum* (Polypodiaceae); LUO YAN CAO; Littleleaf Lemmaphyllum Herb. Used part: whole herb with root. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung heat cough, pulmonary welling abscess, hemoptysis, blood ejection, spontaneous external bleeding, hematuria, hemochezia, flooding and spotting, swelling pain in throat, parotitis, dysentery, scrofula, swelling toxin of welling abscess and sore, damp itchy skin, wind-fire toothache, wind-damp bone pain. Isolated compounds: 6678, 6679, 12620, 16110, 16111, 16112, 16113, 16114, 16115, 17660, 18162.
- T3737 *Lemmaphyllum microphyllum* var. *obovatum* (Polypodiaceae); DAO LUAN YE FU SHI JUE; Obovateleaf Lemmaphyllum*. Used part: whole herb. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Pulmonary welling abscess, coughing of blood, blood ejection, spontaneous external bleeding, hematuria, blood strangury, wind-damp pain, toothache, dysentery, wind papules, damp itchy skin, swollen boil and malign sore, syphilis. Isolated compounds: 2079, 12618, 13413, 13414, 16110, 16116, 19829, 20709, 21174, 21404, 21405.
- T3738 *Lemna minor* (Lemnaceae); FU PING; Common Duckweed. Used part: whole herb. TCM Effects: To effuse sweat and resolve exterior, outthrust papules and relieve itch, disinhibit water and disperse edema, clear heat and resolve toxin. TCM Indications: Wind-heat exterior syndrome, non-eruption of measles, dormant papules with pruritus, edema, dribbling urinary block, sore and lichen, erysipelas, scalds. Isolated compounds: 1521, 9492, 9494, 10161, 10253, 10354, 11699, 17262.
- T3739 *Lemna perpusilla* (Lemnaceae); XI MAI FU PING; Minute Duckweed. Isolated compounds: 931.
- T3740 *Lemnaia bournei* BO LUN LIN HUA RUAN SHAN HU; Softcoral *Lemnaia bournei*. Isolated compounds: 12622.
- T3741 *Lens culinaris* (Fabaceae); BING DOU; Common Lentil. Isolated compounds: 9798, 10165, 20127, 22741.
Lens phaseoloides = *Entada phaseoloides*
- T3742 *Lentinus edodes* (Tricholomataceae); XIANG XUN; Champignon. Used part: sporocarp. TCM Effects: To fortify spleen and promote digestion, dispel wind and outthrust papules, rectify *qi* and transform phlegm, resolve toxin, anticancer. TCM Indications: Weakness of right *qi*, fatigued spirit and hypodynamia, torpid intake, indigestion, blood vacuity, rickets, hypertension, hyperlipemia, chronic hepatitis, night sweating, urinary incontinence, edema, non-eruption of measles, urticaria, carcinoma. Isolated compounds: 109, 617, 624, 7250, 8003, 9766, 11532, 12624, 13608, 15979, 19105, 21504, 21505, 21506.
- T3743 *Lentinus lepideus* (Tricholomataceae); BAO PI GU; Pardleather-like Mushroom. Used part: sporocarp. TCM Effects: To supplement *qi* and blood, boost heart and liver. TCM Indications: *Qi*-blood depletion, heart-spleen vacuity, fatigue hypodynamia, palpitation and insomnia. Isolated compounds: 10318, 11487, 12623, 14333, 14766.
- T3744 *Leonotis nepetaefolia* (Lamiaceae); JING JIE YE SHI ER CAO; Nepetaleaf Leontis. Isolated compounds: 15483.
- T3745 *Leontice leontopetalum* (Berberidaceae); HUA BAN SHI ZU CAO; Leontice*. Isolated compounds: 12641, 17007.
- T3746 *Leontice robustum* (Berberidaceae); HONG MAO QI; Robust Leontice. Used part: root and rhizome. TCM Effects: To quicken blood and dissipate stasis, dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Menstrual disorder, dysmenorrhea, postpartum blood stasis abdominal pain, cold pain in stomach duct and abdomen, knocks and falls, wind-damp impediment pain. Isolated compounds: 3340, 3341, 3342, 3343, 13089, 20717.
- T3747 *Leontice smirnowii* (Berberidaceae); SI MI SHI MU DAN CAO; Smirnow Leontice*. Isolated compounds: 20717.
- T3748 *Leontice* spp. (Berberidaceae). Isolated compounds: 12642.
- T3749 *Leontopodium alpinum* (Asteraceae); GAO SHAN HUO RONG CAO; Alpine Edelweiss. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough and transform phlegm. TCM Indications: Fever due to external contraction, lung heat cough, bronchitis. Isolated compounds: 118, 119, 230, 2856, 6211, 6212, 10526, 11339, 12178, 14394, 14767, 14893, 15886, 19894, 21898, 21971.
Leonurus artemisia = *Leonurus heterophyllus*
- T3750 *Leonurus cardiaca* (Lamiaceae); WEI YI MU CAO; Stomach Motherwort. Isolated compounds: 816, 10135, 12625.
- T3751 *Leonurus glaucescens* (Lamiaceae); HUI BAI YI MU CAO; Glaucous Motherwort. Isolated compounds: 12579, 12637, 12638.
- T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (Lamiaceae); YI MU CAO; Wormwood-like Motherwort. Equivalent plant: *Leonurus sibiricus*. Used part: aerial parts. TCM Effects: To quicken blood and regulate menstruation, disinhibit urine and disperse edema. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum bleeding, persistent flow of lochia, edema, scant urine with edema, acute nephritis with edema. Isolated compounds: 6943, 6944, 6945, 6946, 6947, 8092, 8289, 9068, 9069, 9468, 9559, 9560, 12626, 12627, 12628, 12629, 12630, 12631, 12632, 12633, 12634, 12635, 12636, 12646, 12648, 12649, 13647, 17807, 17810, 19087, 20254, 21392.
- T3753 *Leonurus persicus* (Lamiaceae); BO SI YI MU CAO; Persia Motherwort*. Isolated compounds: 308, 409, 2133, 4747, 5176, 5189, 6946, 6947, 6948, 6949, 6950, 7090, 7526, 8094, 9814, 12647, 12648,

- 12649, 12650, 12651, 12652, 12653, 12654, 12655, 12656, 12657, 12658, 12659, 12660, 12661, 12662, 12664, 12725, 17779.
- T3754 *Leonurus sibiricus* (Lamiaceae); XI YE YI MU CAO; Siberian Motherwort. Used part: aerial parts. TCM Effects: See *Leonurus heterophyllus*. TCM Indications: See *Leonurus heterophyllus*. Isolated compounds: 6617, 7020, 7021, 8289, 11488, 12639, 12640, 12645, 12646, 12663, 12665, 12666, 13014, 13015, 15483, 19858, 19859, 19860, 19861, 19862, 20254.
- T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*] (Brassicaceae); TING LI ZI; Pepperweed Seed. Equivalent plant: *Descurainia sophia*, *Lepidium virginicum*. Used part: seed. TCM Effects: To drain lung and calm asthma, move water and disperse swelling. TCM Indications: Phlegm-drool and congesting lung, cough and asthma with abundant phlegm, distention fullness in chest and rib-side, edema in chest and abdomen, inhibited urination. Isolated compounds: 2294, 19909.
- T3756 *Lepidium campestre* (Brassicaceae); HUANG YE DU XING CAI; Field Pepperwort. Isolated compounds: 1599.
- T3757 *Lepidium draba* (Brassicaceae); MAO DU XING CAI; Hoary Pepperwort. Isolated compounds: 7323, 14728, 20478.
Lepidium micranthum = *Lepidium apetalum*
- T3758 *Lepidium sativum* (Brassicaceae); JIA DU XING CAI; Garden Cress. Used part: whole herb and seed. TCM Effects: To relieve cough and dispel phlegm, warm center, disinhibit urine, hasten delivery. TCM Indications: Cough, asthma, abundant phlegm, hiccough, diarrhea, dysentery, abdominal distention, edema, inhibited urination, scab and lichen. Isolated compounds: 3911, 8599, 19912.
- T3759 *Lepidium virginicum* (Brassicaceae); BEI MEI TING LI ZI; Virginia Pepperweed Seed. Used part: seed. TCM Effects: See *Lepidium apetalum*. TCM Indications: See *Lepidium apetalum*. Isolated compounds: 1599.
- T3760 *Lepidolaena taylorii* (Lepidolaenaceae); New Zealand liverwort. Isolated compounds: 19603, 19604, 19611, 19617.
- T3761 *Lepidozia fauriana* (Lepidoziaceae); DONG YA ZHI YE TAI. Isolated compounds: 1072, 1073, 1260, 1266, 5559, 5560, 7510.
- T3762 *Lepidozia incurvata* (Lepidoziaceae); WAN QU ZHI YE TAI. Isolated compounds: 2180, 2181, 2182, 2183, 2184, 2185, 2186, 3167, 3168, 3177, 11604.
- T3763 *Lepidozia vitrea* (Lepidoziaceae); YING ZHI YE TAI. Isolated compounds: 177, 6739, 7509, 7510, 7511, 11254, 22439.
- T3764 *Lepisorus thunbergianus* (Polypodiaceae); WA WEI; Thunberg's Lepisorus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and free strangury, stanch bleeding. TCM Indications: Infant ardent fever, fright wind, swelling pain in throat, swollen welling abscess and sores, poisonous snake bite, dribbling and inhibited voidings of urination, hematuria, cough and hemoptysis. Isolated compounds: 6679.
- T3765 *Lepisorus ussuriensis* (Polypodiaceae); WU SU LI WA WEI; Ussuri Lepisorus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine, relieve cough, stanch bleeding. TCM Indications: Inhibited urination, dribbling pain of urination, edema, bloody urine, damp-heat dysentery, asthma, sore swollen throat, toxin swelling of sores, wind-damp pain, menstrual disorder, knocks and falls, bleeding knife wound. Isolated compounds: 21695.
- T3766 *Lepista nuda* (Tricholomataceae); ZI DING XIANG MO; Murasakishimeji (in Japanese). Used part: sporocarp. TCM Effects: To dispel damp and fortify spleen. TCM Indications: Leg qi. Isolated compounds: 6900, 7251.
- T3767 *Leptospermum polygalifolium* ssp. *polygalifolium* (Myrtaceae); YUAN ZHI YE AO ZHOU CHA; Australian Tea-tree. Isolated compounds: 6036, 6037, 10424, 10425, 21198, 21199, 21200.
- T3768 *Leptosphaeria maculans* BAN DIAN XIAO QIU QIANG JUN. Isolated compounds: 17177, 17178, 17179, 17180, 17604, 17605, 17606, 17607, 17608.
- T3769 *Lespedeza bicolor* (Fabaceae); HU ZHI ZI; Shrub Lespedeza. Used part: stem-leaf. TCM Effects: To clear heat and moisten lung, disinhibit urine and free strangury, stanch bleeding. TCM Indications: Lung heat cough, common cold with fever, pertussis, strangury syndrome, spontaneous external bleeding, blood ejection, hematuria, hematochezia. Isolated compounds: 9616, 10096, 11642, 16196, 21634.
- T3770 *Lespedeza cuneata* (Fabaceae); YE GUAN MEN; Cuneate Lespedeza. Used part: herb with root. TCM Effects: To supplement kidney and rough essence, fortify spleen and disinhibit damp, relieve cough and dispel phlegm, clear heat and resolve toxin. TCM Indications: Kidney vacuity, emission, enuresis, frequent urination, white turbidity, vaginal discharge, diarrhea, dysentery, edema, child gan accumulation, cough and asthma, knocks and falls, red eyes with gall, swelling toxin of welling abscess and sore, poisonous insect stings. Isolated compounds: 17391, 20385, 20444, 22581.
- T3771 *Lespedeza cyrtobotrya* (Fabaceae); DUAN GENG HU ZHI ZI; Shortstalk Bushclover. Isolated compounds: 12018.
- T3772 *Lespedeza homoloba* (Fabaceae); TONG XING LIE PIAN HU ZHI ZI; Homoloba Lespedeza*. Isolated compounds: 6086, 6105, 9189, 9190, 12682, 12683, 12684, 12685, 12686, 12687, 12688, 12689, 12690, 12691, 12692, 12693, 12694, 12695, 12696, 12697, 12698, 12699, 12700, 12701, 12702, 12703, 12704, 12705, 12706.
- T3773 *Lespedeza* spp. (Fabaceae). Isolated compounds: 22581.
- T3774 *Lespedeza tomentosa* (Fabaceae); XIAO XUE REN SHEN; Woolly Lespedeza. Used part: root. TCM Effects: To fortify spleen and supplement vacuity, clear heat and disinhibit damp, quicken blood and regulate menstruation. TCM Indications: Vacuity taxation, dizziness due to anemia, edema, ascites, dysentery, amenorrhea, dysmenorrhea. Isolated compounds: 21634.
- T3775 *Lethariella cladonioides* (Parmeliaceae); JIN SI SHUA; Gold-wire Brush*. Used part: lichen. TCM Effects: To quiet spirit, calm liver, quicken blood, close sores. TCM Indications: Insomnia, epilepsy, dizziness, knocks and falls, burns and scalds. Isolated compounds: 873, 9188, 14297, 14637, 15798.
- T3776 *Lethariella zahlbruckneri* (Parmeliaceae); JIN YAO DAI; Goldon-belt*. Used part: lichen. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation, stanch bleeding and settle pain. TCM Indications: Taxation damage pain in lumbus and legs, menstrual disorder, leukorrhea, incised wound and bleeding, dizziness. Isolated compounds: 14637.
- T3777 *Lettowianthus stellatus* (Annonaceae). Isolated compounds: 10154, 11988, 12707, 12917, 13988, 14318, 15958.

- T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*] (Fabaceae); YIN HE HUAN; Hedge Acacia. Used part: root cortex. TCM Effects: To resolve depression and quiet heart, resolve toxin and disperse swelling. TCM Indications: Insomnia and vexation, palpitation and fearful throbbing, knocks and falls, fracture, pulmonary welling abscess, swollen welling abscess, scab sore. Isolated compounds: 14868, 14869.
Leucaena leucocephala = *Leucaena glauca*
- T3779 *Leucas aspera* (Lamiaceae); FENG CHAO CAO; Rough Leucas. Used part: whole herb. TCM Effects: To resolve exterior, relieve cough, brighten eyes, free menstruation. TCM Indications: Common cold, headache, asthma, pertussis, swelling pain in throat, toothache, indigestion, menstrual disorder [=menoxenia], menstrual block, night blindness, phlegmon. Isolated compounds: 1466, 3517, 10434, 13291, 15202.
- T3780 *Leucocarpus perfoliatus*. Isolated compounds: 17513.
- T3781 *Leucojum aestivum* (Amaryllidaceae); XIA XUE PIAN LIAN; Summer Snowflake. Isolated compounds: 8083, 13237.
- T3782 *Leucojum vernum* (Amaryllidaceae); XUE PIAN LIAN; Spring Snowflake. Isolated compounds: 461, 8083, 9186, 9612, 13241.
- T3783 *Leucopaxillus tricolor* (Tricholomataceae); SAN SE BAI ZHUANG GU; Tricolor Leucopaxillus*. Isolated compounds: 21591, 21592.
- T3784 *Leucothoe grayana* (Ericaceae); MU LI LU; One Sided Racemes Leucothoe. Isolated compounds: 8993, 8994, 8995.
- T3785 *Levisticum officinale* (Apiaceae); OU DANG GUI; Garden Lovage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, disinhibit urine. TCM Indications: Amenorrhea, dysmenorrhea, dizziness, headache, numbness in limbs, edema. Isolated compounds: 2791, 7768, 11642, 12825, 12826.
- T3786 *Levisticum* sp. (Apiaceae). Isolated compounds: 12420.
- T3787 *Liatris champmanii* (Asteraceae); CHA SHI SHE BIAN JU; Champman Gay-feather*. Isolated compounds: 12746.
- T3788 *Liatris elegans* (Asteraceae); HUA LI SHE BIAN JU; Pinkscale Gay-feather. Isolated compounds: 6737.
- T3789 *Liatris provincialis* (Asteraceae); TU ER FENG; Provincialis Gayfeather*. Isolated compounds: 17998.
- T3790 *Liatris pycnostachya* (Asteraceae); MI SUI HUA SHE BIAN JU; Kansas Gay-feather. Isolated compounds: 20160.
- T3791 *Liatris scabra* (Asteraceae); CU CAO SHE BIAN JU; Scabrous Gay-feather*. Isolated compounds: 6737.
- T3792 *Liatris* sp. (Asteraceae). Isolated compounds: 21507.
- T3793 *Liatris spicata* (Asteraceae); SHE BIAN JU; Gay-feather. Isolated compounds: 20160.
- T3794 *Liatris squarrosa* (Asteraceae); CU SHE BIAN JU; Scaly Blazing Star. Isolated compounds: 20160.
- T3795 *Liatris tenuifolia* (Asteraceae); XI YE SHE BIAN JU; Fine-leaved Gay-feather*. Isolated compounds: 20160.
- T3796 *Libanotis buchtormensis* (Apiaceae); YAN FENG; Buchtorm Libanotis. Used part: root. TCM Effects: To effuse exterior and dissipate cold, dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-cold common cold, headache, toothache, wind-damp impediment pain, sinew and bone numbness, wound swelling from knocks and falls. Isolated compounds: 11834, 11835.
- T3797 *Libanotis condensata* (Apiaceae); MI HUA YAN FENG; Denseflower Libanotis. Used part: root. TCM Effects: To dispel wind and free network vessels, relieve pain. TCM Indications: Pain in joints due to rheumatism, chest pain. Isolated compounds: 18165.
- T3798 *Libanotis pyrenaicum* (Apiaceae). Isolated compounds: 17036.
- T3799 *Libocedrus* sp. (Cupressaceae). Isolated compounds: 1372.
- T3800 *Ligularia calthaefolia* (Asteraceae); LV TI CAO YE TUO WU; Marshmarigold-like Goldenray*. Isolated compounds: 2119.
- T3801 *Ligularia clivorum* (Asteraceae); SHAN GANG TUO WU; Leopard Plant. Isolated compounds: 3847.
- T3802 *Ligularia dentata* (Asteraceae); CHI YE TUO WU; Toothleaf Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 3847, 12812.
- T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*] (Asteraceae); WANG MAI TOU WU; Netvein Goldenray. Used part: root. TCM Effects: To diffuse lung and rectify qi, eliminate phlegm and suppress cough. TCM Indications: Common cold, cough. Isolated compounds: 12803, 12804, 12805.
- T3804 *Ligularia elegans* (Asteraceae); YA ZHI TUO WU; Elegant Goldenray*. Isolated compounds: 3847, 12812.
- T3805 *Ligularia fischeri* (Asteraceae); HU LU QI; Kidneyleaf Goldenray. Equivalent plant: *Ligularia dentata*, *Ligularia intermedia*, *Ligularia sibirica*. Used part: root and rhizome. TCM Effects: To dispel phlegm, relieve cough, rectify qi and quicken blood, relieve pain. TCM Indications: Cough, abundant phlegm and asthma, pertussis, pain in lumbus and legs, taxation damage, knocks and falls. Isolated compounds: 3847, 8020, 10094, 12812, 12813, 12814, 12815, 12816.
- T3806 *Ligularia fischeri* var. *spiciformis* (Asteraceae); HU LU QI BIAN ZHONG; Kidneyleaf Goldenray Variety*. Isolated compounds: 8020.
- T3807 *Ligularia intermedia* (Asteraceae); XIA BAO TUO WU; Narrowbract Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 10775.
- T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*] (Asteraceae); DA TOU TUO WU; Japanese Goldenray. Used part: root and whole herb. TCM Effects: To soothe sinews and quicken blood, resolve toxin and disperse swelling. TCM Indications: Knocks and falls, innominate toxin swelling, poisonous snake bite, welling abscess and boil, eczema. Isolated compounds: 17546, 19706.
- T3809 *Ligularia lapathifolia* (Asteraceae); NIU BANG YE DU WU; Dockleaf Goldenray. Used part: root, leaf. TCM Effects: To dissipate stasis and quicken blood, relieve pain. TCM Indications: Knocks and falls, stasis swelling pain, wind-damp impediment pain. Isolated compounds: 1219, 1220, 1221, 1223, 1224, 1226, 1230.
- T3810 *Ligularia nelumbifolia* (Asteraceae); LIAN YE TUO WU; Waterlilyleaf Goldenray. Used part: root. TCM Effects: To relieve cough and transform phlegm, dispel wind. TCM Indications: Wind-cold cough, phthisis. Isolated compounds: 6381, 8327, 8328, 15326, 15327, 15328, 15329.
- T3811 *Ligularia platyglossa* (Asteraceae); KUAN SHE TUO WU; Broad-tongue Goldenray*. Isolated compounds: 16330.
- T3812 *Ligularia sagitta* (Asteraceae); JIAN YE TOU WU GEN; Arrowleaf

- Goldenray Root. Isolated compounds: 1228, 1229, 5959, 5977, 6238, 13098, 14170, 14171, 19983, 22270.
- T3813 *Ligularia sibirica* (Asteraceae); XI BO LI YA TOU WU; Siberian Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 12813.
- T3814 *Ligularia* sp. (Asteraceae). Isolated compounds: 21507.
- T3815 *Ligularia stenocephala* (Asteraceae); ZHAI TOU TUO WU; Narrowhead Goldenray. Used part: root. TCM Effects: To clear heat, resolve toxin, dissipate binds, disinhibit urine. TCM Indications: Mammary welling abscess, edema, scrofula, tetrodon poisoning. Isolated compounds: 6255, 7578, 10775, 12806, 12807, 12808, 12809, 12810, 12811.
- T3816 *Ligularia tongolensis* (Asteraceae); DONG E LUO DU WU; Tongol Goldenray. Isolated compounds: 7228, 14169, 21818, 21819.
- T3817 *Ligularia virgaurea* ssp. *oligocephala* (Asteraceae). Isolated compounds: 5883, 6063, 10401, 10563, 21429, 21430, 21431.
- T3818 *Ligulariopsis shichuana* (Asteraceae); JIA TUO WU; False Goldenray*. Isolated compounds: 123, 1225, 16419, 19707. *Ligusticum acutilobum* = *Angelica acutiloba*
- T3819 *Ligusticum brachylobum* (Apiaceae); DUAN PIAN GAO BEN; Shortlobe Ligusticum. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 2803, 7768, 12825.
- T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (Apiaceae); CHUAN XIONG; Chuanxiong (Wallich Ligusticum). Equivalent plant: *Cnidium officinale*. Used part: rhizome. TCM Effects: To move *qi* and quicken blood, dispel wind and relieve pain. TCM Indications: Cerebral ischemia, postpartum pain, acute icterohepatitis, menstrual disorder, amenorrhea and dysmenorrhea, concretion and conglomeration, chest and rib-side stabbing pain, painful swelling from knocks and falls, headache, wind-damp impediment pain. Isolated compounds: 2791, 2794, 2796, 2797, 2803, 2887, 3589, 3615, 3631, 3632, 3633, 3858, 5589, 5590, 5599, 5763, 5782, 6192, 7071, 7444, 7452, 7453, 7467, 7469, 7471, 7768, 7852, 9486, 10489, 12825, 12826, 12891, 14001, 14484, 14554, 14655, 14669, 15370, 16404, 18656, 19648, 19732, 19733, 19734, 19735, 19736, 19737, 19738, 19739, 19740, 19741, 19742, 19743, 19744, 19745, 19983, 20137, 21939, 22325, 22336, 22627.
- T3821 *Ligusticum elatum* (Apiaceae); GAO DANG GUI; High Ligusticum*. Isolated compounds: 2284, 11834.
- T3822 *Ligusticum jeholense* (Apiaceae); LIAO GAO BEN; Jehol Ligusticum. Used part: rhizome and root. TCM Effects: See *Ligusticum sinense*. TCM Indications: See *Ligusticum sinense*. Isolated compounds: 2803, 7768, 12825, 12826, 15204, 15427, 15515.
- T3823 *Ligusticum scoticum* (Apiaceae); SU GE LAN DANG GUI; Scots Lovage. Isolated compounds: 6193.
- T3824 *Ligusticum sinense* (Apiaceae); GAO BEN; Chinese Ligusticum. Equivalent plant: *Ligusticum jeholense*. Used part: rhizome and root. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, relieve pain. TCM Indications: Headache due to externally contracted wind-cold, vertex headache, pain in tooth and cheek, migraine, wind-cold-damp impediment, pain in limbs. Isolated compounds: 2803, 3855, 3990, 5590, 7768, 11552, 12578, 12825, 12827, 14012, 15204, 15370, 19737, 19738.
- T3825 *Ligusticum sinense* cv. *chaxiong* (Apiaceae); CHA XIONG; Chaxiong Ligusticum. Isolated compounds: 2791, 7768, 15370, 19737, 19738.
- T3826 *Ligusticum* sp. (Apiaceae). Isolated compounds: 2309. *Ligusticum wallichii* = *Ligusticum chuanxiong*
- T3827 *Ligustrum japonicum* (Oleaceae); RI BEN NV ZHEN; Japanese Privet. Used part: leaf. TCM Effects: To clear liver fire, resolve heat toxin. TCM Indications: Dizziness and dim vision, acute conjunctivitis, oral *gan*, tooth decay, innominate toxin swelling, burns and scalds. Isolated compounds: 15439, 16080, 16081.
- T3828 *Ligustrum lucidum* (Oleaceae); NV ZHEN ZI; Glossy Privet Fruit. Used part: fruit. TCM Effects: To supplement liver and kidney, brighten eyes and blacken hair. TCM Indications: Septicemia, chronic bronchitis, acute dysentery, dizziness and tinnitus, premature graying in beard and hair, dim vision. Isolated compounds: 266, 530, 10324, 11565, 12828, 12830, 13053, 13054, 13055, 13056, 13504, 15439, 15865, 15866, 15873, 16050, 16071, 16080, 16081, 18792, 22270.
- T3829 *Ligustrum robustum* (Oleaceae); CU ZHUANG NV ZHEN; Japanese Privet. Used part: leaf. TCM Effects: To dissipate wind-heat, clear head and eyes, allay vexation and thirst. TCM Indications: Headache, toothache, sore pharynx, lip sore, tinnitus, red eyes, hemoptysis, summerheat-heat and vexation and thirst. Isolated compounds: 580, 1492, 1497, 12817, 12818, 12819, 12820, 12821, 12822, 12823, 12824, 16252, 16253.
- T3830 *Ligustrum sinense* (Oleaceae); NV ZHEN XIAO LA SHU; Chinese Privet. Used part: bark and branch-leaf. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, lung heat cough, sore swollen throat, mough and tongue sores, damp-heat jaundice, dysentery, swelling toxin of welling abscess and sore, eczema, dermatitis, knocks and falls, scalds. Isolated compounds: 19926.
- T3831 *Ligustrum vulgare* (Oleaceae); OU ZHOU NV ZHEN; European Privet. Isolated compounds: 3686. *Lilium brownii* var. *colchesteri* = *Lilium brownii* var. *viridulum*
- T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*] (Liliaceae); BAI HE; Greenish Lily. Equivalent plant: *Lilium tigrinum*, *Lilium pumilum*, *Lilium longiflorum*. Used part: bulb. TCM Effects: To nourish *yin* and moisten lung, clear heart and quiet spirit. TCM Indications: *Yin* vacuity enduring cough, phlegm containing blood, fright palpitation and vacuity vexation, insomnia and frequent dreaming, trance. Isolated compounds: 2658, 3911, 6776, 8610, 15408, 18571, 18573, 20067, 20369.
- T3833 *Lilium candidum* (Liliaceae); QING LIANG BAI HE; Madonna Lily. Isolated compounds: 3695, 8705, 10458, 10723, 10724, 14093, 16587, 20222.
- T3834 *Lilium hansonii* (Liliaceae); HUANG BAI HE; Hanson Lily. Isolated compounds: 4293, 11842, 22976. *Lilium lancifolium* = *Lilium tigrinum*
- T3835 *Lilium longiflorum* (Liliaceae); SHE XIANG BAI HE; Longflower Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 1358, 18572, 18573, 18574.

- T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*] (Liliaceae); XI YE BAI HE; Low Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 3142, 3146.
- T3837 *Lilium* sp. (Liliaceae). Isolated compounds: 4448.
- T3838 *Lilium speciosum* x *L. nobilissimum* (Liliaceae); ZA JIAO BAI HEX; Hybrid Lily*. Isolated compounds: 5040.
Lilium tenuifolium = *Lilium pumilum*
- T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*] (Liliaceae); JUAN DAN; Tiger Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 1358, 3142, 12833, 18571, 18575.
- T3840 *Limnophila rugosa* (Scrophulariaceae); SHUI HUI XIANG; Winked Marshweed. Used part: whole herb. TCM Effects: To fortify spleen and disinherit damp, rectify *qi* and transform phlegm. TCM Indications: Edema, stomachache, distention fullness in chest and abdomen, cough and asthma, child milk accumulation, sore and boil. Isolated compounds: 1186, 1284, 7385, 13883.
- T3841 *Limonium bonduellii* (Plumbaginaceae); A ER JI LI YA BU XUE CAO; Algerian Statice. Isolated compounds: 3432.
- T3842 *Limonium gmelinii* (Plumbaginaceae); BU XUE CAO; Gmelin Sealavender Herb. Used part: herb. TCM Effects: To stanch bleeding and dissipate stasis. TCM Indications: Static blood, flooding and spotting, carcinoma of uterine cervix. Isolated compounds: 4450, 5011.
- T3843 *Linaria dalmatica* (Scrophulariaceae); DA ER MA WEI YA LIU CHUAN YU; Balkan Toadflax. Isolated compounds: 12015.
- T3844 *Linaria japonica* (Scrophulariaceae); HAI BIN LIU CHUAN YU; Japanese Toadflax. Isolated compounds: 12856, 12857, 12858, 12859.
- T3845 *Linaria vulgaris* (Scrophulariaceae); LIU CHUAN YU; Yellow Toadflax. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Headache, dizziness, jaundice, hemorrhoids, constipation, skin diseases, burns and scalds. Isolated compounds: 480, 2276, 2278, 2279, 6359, 8759, 10821, 12916, 16756, 16770, 20569, 21079.
- T3846 *Lindelofia stylosa* (Boraginaceae); MING XIAN HUA ZHU CHANG ZHU LIU LI CAO; Longstyle Lindelofia. Isolated compounds: 2805, 6365, 7457, 7478, 12420, 14556, 18925.
Lindera aggregata = *Lindera strychnifolia*
- T3847 *Lindera angustifolia* (Lauraceae); XIA YE SHAN HU JIAO; Narrowleaf Spicebush. Used part: root or branch-leaf. TCM Effects: To dispel wind, eliminate damp, move *qi* and dissipate cold, resolve toxin and disperse swelling. TCM Indications: Wind-cold common cold, headache, wind-damp impediment pain, numbness in limbs, dysentery, enteritis, knocks and falls, toxin swelling of sores, urticaria, scrofula. Isolated compounds: 7397.
- T3848 *Lindera benzoin* (Lauraceae); GUI PI DIAO ZHANG; Spicebush. Isolated compounds: 15902, 15903, 16832.
- T3849 *Lindera chunii* (Lauraceae); DING HU DIAO ZHANG; Chun's Spicebush. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and loosen center, dissipate stasis and relieve pain. TCM Indications: Wind-damp bone pain, distending pain in stomach duct and abdomen, painful wound from knocks and falls. Isolated compounds: 9444, 9449, 9451, 12573, 12860, 12861, 12862, 12863, 12864, 12865, 12868, 12871, 12872, 14483, 15929, 16342, 16344, 18053, 20407, 20408.
- Lindera erythrocarpa* = *Lindera umbellata*
- T3850 *Lindera glauca* (Lauraceae); SHAN HU JIAO; Greyblue Spicebush. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, calm asthma. TCM Indications: Cold pain in stomach duct and abdomen, glomus fullness, asthma. Isolated compounds: 2557, 3241, 3242.
- T3851 *Lindera glauca* (Lauraceae); SHAN HU JIAO YE; Greyblue Spicebush Leaf. Used part: leaf. TCM Effects: To resolve toxin and cure sores, dispel wind and relieve pain, relieve itch, stanch bleeding. TCM Indications: Toxin swelling of sores, wind-damp impediment pain, knocks and falls, bleeding due to external injury, itchy skin, snake or insect bites. Isolated compounds: 15727.
- T3852 *Lindera megaphylla* (Lauraceae); HEI KE NAN; Largeleaf Spicebush. Used part: root, bark or branch. TCM Effects: To dispel wind and eliminate damp, warm center and move *qi*, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, impediment pain numbness, cold pain in stomach duct and abdomen, mounting *qi*, swelling pain in throat, lichen sore. Isolated compounds: 12877, 14161, 14483, 14640, 15738, 15802, 15803.
- T3853 *Lindera obtusiloba* (Lauraceae); SAN ZUAN FENG; Japanese Spicebush. Used part: bark. TCM Effects: To warm center and move *qi*, quicken blood and dissipate stasis. TCM Indications: Pain in heart and abdomen, knocks and falls, blood stasis swelling and pain, sore toxin. Isolated compounds: 2836, 2837, 3040, 4843, 4844, 11566, 11567, 11568, 15902, 15903, 15904, 20369, 21045.
- T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*] (Lauraceae); WU YAO; Combined Spicebush. Used part: tuberoid. TCM Effects: To normalize *qi* and relieve pain, warm kidney and disperse cold. TCM Indications: Distending pain in chest and abdomen, *qi* counterflow with rapid asthma, bladder vacuity cold, enuresis and frequent urination, mounting *qi*, dysmenorrhea. Isolated compounds: 3241, 3464, 4942, 9669, 9670, 11494, 11495, 12573, 12866, 12867, 12868, 12869, 12870, 12871, 12872, 12874, 12875, 15428, 20409, 20412, 20413.
- T3855 *Lindera triloba* (Lauraceae); SAN YE DIAO ZHANG; Threeleaf Spicebush*. Isolated compounds: 19837.
- T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*] (Lauraceae); DIAO ZHANG GEN PI; Largeleaf Spicebush Root-bark. Used part: root cortex. TCM Effects: To warm stomach and center, move *qi* and relieve pain, dispel wind and eliminate damp. TCM Indications: Running piglet, beriberi, edema, scab and lichen, bleeding due to external injury. Isolated compounds: 3702, 4936, 5969, 12564, 12573, 15500.
- T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*] (Lauraceae); DIAO ZHANG ZHI YE; Largeleaf Spicebush Branch-leaf. Used part: branch-leaf. TCM Effects: To dispel wind and kill worms, close sores and stanch bleeding. TCM Indications: Scab and lichen with itching sores, bleeding due to external injury, cracking of hands and feet. Isolated compounds: 16697.
- T3858 *Linum album* (Linaceae); BAI YA MA; White Flax. Isolated compounds: 5093, 16793, 16794.

- T3859 *Linum usitatissimum* (Linaceae); YA MA; Common Flax. Used part: root, leaf. TCM Effects: To calm liver, quicken blood. TCM Indications: Liver wind headache, knocks and falls, swollen welling abscess and clove sores. Isolated compounds: 8316, 9616, 11773, 12854, 12891, 12893, 12895, 12896, 13003, 15429, 16196, 22464.
- T3860 *Linum usitatissimum* (Linaceae); YA MA ZI; Common Flax Seed. Used part: seed. TCM Effects: To nourish blood and dispel wind, moisten dryness and free stool. TCM Indications: Leprosy, dry cracked skin, itchy skin, hair loss, sores eczema, intestinal dry and constipation. Isolated compounds: 4511, 4512, 4513, 4514, 6729, 12854.
- T3861 *Liparis auriculata* (Orchidaceae); ER XING YANG ER LAN; Auriculate Twayblade*. Isolated compounds: 2015.
- T3862 *Liparis loeselii* (Orchidaceae); LUO XI YANG ER SUAN; Fen Orchid. Isolated compounds: 2015.
- T3863 *Liparis nervosa* (Orchidaceae); JIAN XUE QING; Nervate Twayblade. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Stomach heat blood ejection, lung heat hemoptysis, intestinal wind bleeding, flooding and spotting, bleeding during operation, bleeding due to external injury, toxin swelling of sores, poisonous insect stings, knocks and falls. Isolated compounds: 15506, 15511.
Lippia citriodora = *Verbena triphylla*
- T3864 *Lippia dulcis* (Verbenaceae); TIAN SHE CAO; Sweet-tongue Lippia*. Isolated compounds: 580, 3745, 4830, 6148, 6930, 6951, 6953, 7591, 9450, 10751, 11195, 12456, 12902, 19211.
- T3865 *Lippia nodiflora* (Verbenaceae); PENG LAI CAO; Knotteflower Phyla Herb. Used part: whole herb. TCM Effects: To dispel wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Throat moth, swelling toxin of welling abscess and flat abscess, heat dysentery, strangury, *gan* of teeth and gum, zoster. Isolated compounds: 7556, 7557, 15648, 15649, 15650.
- T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*] (Hamamelidaceae); FENG XIANG SHU; Beautiful Sweetgum Leaf. Used part: leaf. TCM Effects: To move *qi* and relieve pain, resolve toxin, stanch bleeding. TCM Indications: Pain in stomach duct, abdominal pain due to summerheat damage, dysentery, diarrhea, swollen welling abscess and sores, eczema, blood ejection, hemoptysis, bleeding due to external injury. Isolated compounds: 6482, 12843, 15179, 20988.
- T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*] (Hamamelidaceae); LU LU TONG; Beautiful Sweetgum. Used part: inflorescence. TCM Effects: To expel wind and eliminate damp, soothe liver and quicken network vessels, disinherit water. TCM Indications: Wind-damp impediment pain, numbness in limbs, hypertonicity of limbs, pain in stomach duct and abdomen, amenorrhea, galactostasis, edema distention fullness, eczema. Isolated compounds: 231, 2338, 2558, 3303, 12904, 12906, 20417, 20418.
- T3868 *Liquidambar orientalis* (Hamamelidaceae); SU HE XIANG; Oriental Sweetgum Resin. Used part: balsam from trunk. TCM Effects: To open orifices, break foul, relieve pain. TCM Indications: Wind stroke with phlegm reversal, sudden clouding collapse, cold pain in chest and abdomen, fright epilepsy, warm disease. Isolated compounds: 3695, 6980, 16402, 20417, 22336.
- Liquidambar taiwaniana* = *Liquidambar formosana*
- T3869 Liquor JIU Liquor. TCM Effects: To quicken blood and free vessels, dissipate cold, free medicinal strength. TCM Indications: Wind-cold impediment pain, hypertonicity of sinews and vessels, chest impediment, cold pain in heart and abdomen. Isolated compounds: 1103, 1104, 7418, 7423, 8808, 13456, 16010.
- T3870 *Liriodendron* spp. (Magnoliaceae). Isolated compounds: 15751.
- T3871 *Liriodendron tulipifera* (Magnoliaceae); BEI MEI E ZHANG QIU; Yellow Poplar. Used part: bark. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve cough. TCM Indications: Wind-damp impediment pain, wind-cold cough. Isolated compounds: 2838, 4923, 7030, 7031, 11083, 12897, 12917, 16339, 16973, 19540, 22103.
- T3872 *Liriope muscari* (Liliaceae); DUAN TING SHAN MAI DONG; Short-stipe Liriope*. Isolated compounds: 4188, 4299, 12919, 16050, 22270.
- T3873 *Liriope platyphylla* (Liliaceae); KUO YE SHAN MAI DONG; Broadleaf Liriope*. Used part: tuberoid. TCM Effects: See *Liriope spicata*. TCM Indications: See *Liriope spicata*. Isolated compounds: 16147, 19070.
- T3874 *Liriope spicata* (Liliaceae); SHAN MAI DONG. Equivalent plant: *Liriope platyphylla*. Used part: tuberoid. TCM Effects: To nourish *yin* and engender liquid. TCM Indications: *Yin* vacuity lung dryness, cough of profuse phlegm, stomach *yin* insufficiency, dry mouth and throat, intestinal dry and constipation. Isolated compounds: 19070.
- T3875 *Liriope spicata* var. *prolifera* (Liliaceae); HU BEI SHAN MAI DONG; Hubei Liriope. Used part: tuberoid. TCM Effects: See *Ophiopogon japonicus*. TCM Indications: See *Ophiopogon japonicus*. Isolated compounds: 618, 19071, 19072.
- T3876 *Litchi chinensis* (Sapindaceae); LI ZHI; Lychee. Used part: fruit. TCM Effects: To engender liquid and boost blood, rectify *qi* and relieve pain. TCM Indications: Vexation and thirst, hiccough, stomachache, scrofula, swelling of clove, toothache, bleeding due to external injury. Isolated compounds: 7852, 7853.
- T3877 *Litchi chinensis* (Sapindaceae); LI ZHI HE; Lychee Seed. Used part: seed. TCM Effects: To rectify *qi*, dispel cold, relieve pain, resolve binds. TCM Indications: Mounting *qi* pain, painful swollen testes, premenstrual abdominal pain, postpartum abdominal pain. Isolated compounds: 14358.
- T3878 *Lithocarpus polystachyus* (Fagaceae); DUO SUI SHI KE YE; Manyspike Tanoak Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, transform phlegm, dispel wind, lower blood pressure. TCM Indications: Hypertension, damp-heat diarrhea dysentery, lung heat cough, sores with welling abscess and flat abscess, dry-itchy skin. Isolated compounds: 1113, 6918, 10645, 12921, 12922, 14351, 21878.
- T3879 *Lithocarpus* sp. (Fagaceae). Isolated compounds: 20711.
- T3880 *Lithospermum arvense* (Boraginaceae); MAI JIA GONG; Corn Gromwell. Used part: fruit. TCM Effects: To warm center and move *qi*, disperse swelling and relieve pain. TCM Indications: Stomach cold distending pain, hyperchlorhydria, painful swelling from knocks and falls, fracture. Isolated compounds: 7996.
- T3881 *Lithospermum erythrorhizon* (Boraginaceae); ZI CAO; Redroot

- Gromwell. Equivalent plant: *Arnebia guttata*, *Arnebia euchroma*. Used part: root. TCM Effects: To cool blood and quicken blood, resolve toxin and outthrust papules. TCM Indications: Macula, measles papules, blood ejection, spontaneous external bleeding, hematuria, purpura, jaundice, welling abscess and flat abscess, scalds. Isolated compounds: 244, 309, 514, 908, 910, 1233, 1234, 1259, 1744, 2887, 5214, 5258, 6302, 6303, 6539, 6722, 6726, 10266, 10535, 11107, 11300, 11765, 12927, 12928, 14120, 14202, 15145, 15850, 15851, 15852, 15853, 15854, 15953, 17933, 18780, 19819, 19820, 19821, 19822, 19823, 19824, 19825, 20968, 21039.
- T3882 *Lithospermum officinale* (Boraginaceae); BAI GUO ZI CAO; Common Gromwell. Used part: whole herb. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Arthritis. Isolated compounds: 1745, 12925, 19819.
- T3883 *Lithospermum ruderalis* (Boraginaceae); LU BIAN ZI CAO; Wild Gromwell*. Isolated compounds: 12925.
- T3884 *Lithraea caustica* SHENG MU. Isolated compounds: 16622.
- T3885 *Litsea cubeba* (Lauraceae); CHENG QIE ZI; Mountain Spicy Tree. Used part: fruit. TCM Effects: To warm center and relieve pain, move *qi* and quicken blood, calm asthma, disinhibit urine. TCM Indications: Chronic bronchitis, bronchial asthma, asthma, cold pain in stomach duct and abdomen, food accumulation and *qi* distention, stomach reflux vomiting, summerheat stroke with vomiting and diarrhea, diarrhea, cold mounting with abdominal pain, cold-damp water drum distention, inhibited urination, opacity of urine, toxin swelling of sores, toothache, cold-damp impediment pain, knocks and falls. Isolated compounds: 3767, 4843, 11344, 12573, 13373.
- T3886 *Litsea euosma* (Lauraceae); QING XIANG MU JIANG ZI; Fourflower Litse. Used part: leaf. TCM Effects: To dispel wind and move *qi*, fortify spleen and disinhibit damp, resolve toxin. TCM Indications: Abdominal distention and pain, summerheat-damp vomiting and diarrhea, pain in joints, edema, innominate toxin swelling. Isolated compounds: 10525.
- T3887 *Litsea glutinosa* (Lauraceae); CHAN GAO MU JIANG ZI; Gluey Litse. Used part: bark and leaf. TCM Effects: To draw out toxin and engender flesh, stanch bleeding, disperse swelling and relieve pain. TCM Indications: Swollen welling abscess, sore and boil, knocks and falls, bleeding due to external injury. Isolated compounds: 2538.
- T3888 *Litsea glutinosa* var. *glabrata* (Lauraceae); WU MAO CHAN GAO SHU; Glabrous Litse*. Isolated compounds: 11256.
- T3889 *Litsea gracilipes* (Lauraceae); XI BING MU JIANG ZI; Slenderstalk Litse*. Isolated compounds: 7512.
- T3890 *Litsea grandis* (Lauraceae); DA MU JIANG ZI; Grand Litse*. Isolated compounds: 8979.
- T3891 *Litsea laurifolia* (Lauraceae); YUE GUI SHU YE MU JIANG ZI; Laurelleaf Litse*. Isolated compounds: 2538.
- T3892 *Litsea leefeana* (Lauraceae); LI FEI MU JIANG ZI; Leefe Litse*. Isolated compounds: 2538.
- T3893 *Litsea pungens* (Lauraceae); ZHEN CAI; Pungent Litse. Used part: wood. TCM Indications: Cough of phlegm-rheum, accumulation-gathering and distention-fullness, beriberi, sore and scab in children. Isolated compounds: 4843, 5968, 6543, 12564, 12574, 16562, 21044.
- T3894 *Litsea salicifolia* (Lauraceae). Isolated compounds: 15738.
- T3895 *Litsea sebifera* (Lauraceae); LA ZHI MU JIANG ZI; Waxy Litse*. Isolated compounds: 585.
- T3896 *Litsea turfosa* (Lauraceae); NI ZHAO MU JIANG ZI; Sloughy Litse*. Isolated compounds: 2538, 4906.
- T3897 *Litsea verticillata* (Lauraceae); DIE DA LAO; Whorlleaf Litse. Used part: stem-leaf or root. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, stomachache, dysmenorrhea, painful swelling from knocks and falls. Isolated compounds: 1473, 5046, 6909, 6910, 6911, 7504, 11784, 12929, 12930, 12931, 12932, 12933, 15966, 22428.
- T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*] (Campanulaceae); BAN BIAN LIAN; Chinese Lobelia. Used part: whole herb. TCM Effects: To disinhibit urine and disperse edema, clear heat and resolve toxin, lower blood pressure. TCM Indications: Edema, edema and enlarged abdomen, edema in face and foot, swollen welling abscess and clove sores, snake or insect bites. Isolated compounds: 9818, 11506, 12937, 12938, 12939, 12940, 18524, 18525, 20444.
- T3899 *Lobelia hassleri* (Campanulaceae); HA SHI SHAN GENG CAI; Hassler Lobelia*. Isolated compounds: 12937, 12939.
- T3900 *Lobelia inflata* (Campanulaceae); BEI MEI ZHOU SHAN GENG CAI; Indian Tobacco. Isolated compounds: 11507, 12937, 12939.
- T3901 *Lobelia nicotianaefolia* (Campanulaceae); YAN CAO HUA SHAN GENG CAI; Nicotianflower Lobelia*. Isolated compounds: 12939. *Lobelia radicans* = *Lobelia chinensis*
- T3902 *Lobophytum* sp. Isolated compounds: 888, 890, 1759, 1760, 1761, 7248, 8674, 9488, 10158, 15673.
- T3903 *Lolium multiflorum* (Poaceae); DUO HUA HEI MAI CAO; Italian Ryegrass. Isolated compounds: 1342, 22158.
- T3904 *Lonchocarpus atropurpureus* (Fabaceae); Lancepod. Isolated compounds: 5972, 21719.
- T3905 *Lonchocarpus latifolius* (Fabaceae). Isolated compounds: 6222, 6229, 6309, 13933, 14368.
- T3906 *Lonchocarpus* sp. (Fabaceae). Isolated compounds: 4872.
- T3907 *Lonchocarpus xuul* (Fabaceae). Isolated compounds: 5103, 14105, 20170, 22810.
- T3908 *Lonicera bournei* (Caprifoliaceae); XI NAN REN DONG; South-western Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2572, 2573, 7425.
- T3909 *Lonicera confusa* (Caprifoliaceae); HUA NAN REN DONG; Wild Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 3551.
- T3910 *Lonicera fulvotomentosa* (Caprifoliaceae); HUANG HE MAO REN DONG; Yellowhair Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2887, 3551, 7995, 9276, 13137, 19317.
- T3911 *Lonicera hypoglauca* (Caprifoliaceae); XIAN YE REN DONG; Glaucousback Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 3551.

- T3912 *Lonicera japonica* (Caprifoliaceae); JIN YIN HUA; Japanese Honeysuckle. Equivalent plant: *Lonicera confusa*, *Lonicera hypoglauca*, *Lonicera fulvotomentosa*, *Lonicera macranthoides*, *Lonicera bournei*, *Lonicera similis*. Used part: flower bud. TCM Effects: To clear heat and resolve toxin. TCM Indications: Infection of upper respiratory tract, tonsillitis, acute laryngitis, skin suppurations, swelling abscess, viral conjunctivitis, influenza, pneumonia, mastitis, acute appendicitis, warm disease fever, heat toxin blood dysentery, swollen swelling abscess and clove sores, throat impediment. Isolated compounds: 878, 879, 1511, 2275, 2280, 2284, 2353, 2887, 3231, 3551, 3602, 3768, 7469, 7521, 7734, 8312, 8701, 9260, 9520, 10735, 11083, 11084, 11085, 11121, 11327, 11328, 12849, 12853, 12949, 12950, 12985, 12986, 12987, 12989, 13137, 13298, 13299, 13302, 13303, 14162, 14554, 14557, 14664, 15520, 17094, 17376, 19983, 19987, 20369, 20995.
- T3913 *Lonicera japonica* (Caprifoliaceae); REN DONG TENG; Japanese Honeysuckle Vine. Used part: stem-branch. TCM Effects: To clear heat and resolve toxin, free network vessels. TCM Indications: Warm disease fever, swelling toxin of sore and swelling abscess, heat toxin blood dysentery, wind-damp-heat impediment. Isolated compounds: 1577, 3342, 3551, 9262, 9263, 9268, 9269, 9270, 9271, 9272, 9276, 12987, 13140, 16049, 16053, 16054, 19624, 19636, 22606.
- T3914 *Lonicera macranthoides* (Caprifoliaceae); HUI ZHAN MAO REN DONG; Largeflower-like Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 13298, 13299, 13300, 13301.
- T3915 *Lonicera morrowii* (Caprifoliaceae); MO LUO SHI REN DONG; Morrow Honeysuckle. Isolated compounds: 12229, 14982.
- T3916 *Lonicera nigra* (Caprifoliaceae); HEI REN DONG; Black Honeysuckle. Isolated compounds: 2973, 16050.
- T3917 *Lonicera quinquelocularis* (Caprifoliaceae); WU SHI REN DONG; Five-room Honeysuckle*. Isolated compounds: 1517, 12950, 20503.
- T3918 *Lonicera similis* (Caprifoliaceae); XI ZHAN MAO REN DONG; Shortbraet Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2887, 3551, 11328.
- T3919 *Lonicera* sp. (Caprifoliaceae). Isolated compounds: 3981.
- T3920 *Lophatherum gracile* (Poaceae); DAN ZHU YE; Common Lophatherum. Used part: aerial parts. TCM Effects: To clear heat and eliminate vexation, disinhibit urine. TCM Indications: Febrile diseases with vexation and thirst, inhibited voidings of reddish urine, dribbling pain of urination, mouth sore, tongue sores. Isolated compounds: 1823, 4546.
- T3921 *Lophatherum gracile* (Poaceae); DAN ZHU YE GEN; Common Lophatherum Root. Used part: rhizome and root. TCM Effects: To clear heat and disinhibit urine. TCM Indications: Fever, thirst, vexation, inhibited urination. Isolated compounds: 1823, 4546.
- T3922 *Lophopetalum wallichii* (Celastraceae); WO LI HE GUAN BAN; Wallich Crestpetal-tree. Isolated compounds: 15919.
- T3923 *Lophophora williamsii* (Cactaceae); AN LU LONG SHE LAN; Peyote. Isolated compounds: 6559, 13001, 13795, 14583, 22158.
- T3924 *Lophytum* sp. Isolated compounds: 21820.
Loranthus chinensis = *Loranthus parasiticus*
- T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*] (Loranthaceae); SANG JI SHENG; Parasite Scurrella. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Angina pectoris, arrhythmia, hypertension, wind-damp impediment pain, aching in lumbus and knees, stomachache, scant breast milk, knocks and falls, toxin swelling of sores, frostbite. Isolated compounds: 1113, 2039, 13098, 16050, 18317, 18411.
- T3926 *Loropetalum chinense* (Hamamelidaceae); JI MU; Chinese Loropetalum. Used part: leaf or stem. TCM Effects: To clear heat and relieve cough, promote contraction and stanch bleeding. TCM Indications: Angina pectoris, senile bronchitis, indigestion, duodenal bleeding, uterine bleeding, lung heat cough, hemoptysis, spontaneous external bleeding, hematochezia, dysentery, diarrhea, flooding and spotting, infection of skin. Isolated compounds: 3551, 8095, 8971.
- T3927 *Lotus australis* (Fabaceae); AO ZHOU BAI MAI GEN; Austral Bird's Foot Trefoil. Isolated compounds: 13003.
- T3928 *Lotus corniculatus* (Fabaceae); DI YANG QUE; Birdsfoot Trefoil. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, disinhibit damp and disperse glomus. TCM Indications: Wind-heat cough, swelling pain in throat, glomus fullness, clove sore, innominate toxin swelling, eczema, dysentery, hematochezia from hemorrhoids. Isolated compounds: 3059, 8779, 8782, 8964, 18309, 21127.
- T3929 *Lotus helleri* (Fabaceae). Isolated compounds: 9596.
- T3930 *Lotus pedunculatus* (Fabaceae); HUA XU GENG BAI MAI GEN; Greater Bird's-foot-trefoil. Isolated compounds: 19394.
- T3931 *Lotus polyphyllus* (Fabaceae); DUO YE BAI MAI GEN; Leafy Trefoil*. Isolated compounds: 11653, 12031, 18334.
- T3932 *Ludwigia octovalvis* (Onagraceae); MAO CAO LONG; Water Seedbox*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, child *gan* fever, swelling pain in throat, mouth and tongue sores, hypertension, edema, damp-heat diarrhea dysentery, strangury with pain, white turbidity, vaginal discharge, mammary swelling abscess, swelling toxin of clove sore, hemorrhoids, burns and scalds, poisonous snake bites. Isolated compounds: 4164, 4165, 4166, 16050, 16845, 22270.
- T3933 *Luffa acutangula* (Cucurbitaceae); YUE SI GUA; Singkwa Towelgourd. Used part: dried vascular bundles of ripe fruit. TCM Effects: See *Luffa cylindrica*. TCM Indications: See *Luffa cylindrica*. Isolated compounds: 9717.
- T3934 *Luffa cylindrica* (Cucurbitaceae); SI GUA; Suakwa Vegetablesponge. Equivalent plant: *Luffa acutangula*. Used part: dried vascular bundles of ripe fruit. TCM Effects: To clear heat and resolve phlegm, cool blood and resolve toxin. TCM Indications: Febrile diseases with vexation and thirst, cough of phlegm asthma, intestinal wind bleeding, bleeding from hemorrhoids, blood strangury, flooding and spotting, sores with swelling abscess and flat abscess, galactostasis, innominate toxin swelling, edema. Isolated compounds: 2687, 3774, 4317, 13061, 13062, 13063, 13064, 13288, 20168, 20237.
- T3935 *Luffa cylindrica* (Cucurbitaceae); SI GUA ZI; Suakwa Vegetablesponge Seed. Used part: seed. TCM Effects: To clear heat,

- disinhibit water, free stool, expel worms. TCM Indications: Edema, stone strangury, lung heat cough, intestinal wind bleeding, hemorrhoids and fistulas, constipation, ascariasis. Isolated compounds: 3318, 6733, 13659, 20237.
- T3936 *Luffa operculata* (Cucurbitaceae); NANG GAI SI GUA; Buchinha (Brazil Herb). Used part: aerial parts. TCM Effects: To disperse swelling and transform stasis, antiallergic. TCM Indications: Anaphylactic diseases (hay fever, pollinosis, allergic rhinitis, allergic conjunctivitis). Isolated compounds: 1825, 1827, 15376, 15377, 16126, 16127.
- T3937 *Lumbriconis heteropoda* (Eunicidae); YI ZU SUO SHA CAN; Heterofoot Lumbrinereis*. Used part: whole body. TCM Indications: Leg qi. Isolated compounds: 15490.
- T3938 *Lunaria* sp. (Brassicaceae). Isolated compounds: 833.
- T3939 *Lupinus albus* (Fabaceae); BAI YU SHAN DOU; White Lupin. Isolated compounds: 13088, 13089, 13150, 15070, 22667.
- T3940 *Lupinus angustifolius* (Fabaceae); AI SAI E BI YA YU SHAN DOU; Narrowleaf Lupin*. Isolated compounds: 21146, 21147.
- T3941 *Lupinus formosus* (Fabaceae). Isolated compounds: 16789.
- T3942 *Lupinus hartwegii* (Fabaceae). Isolated compounds: 1478, 1479.
- T3943 *Lupinus luteus* (Fabaceae); HUANG YU SHAN DOU; Yellow Lupin. Isolated compounds: 8278, 8282, 8283, 11514, 13104, 13107, 20133.
- T3944 *Lupinus* sp. (Fabaceae). Isolated compounds: 6558, 8971, 22667.
- T3945 *Lupinus varius* (Fabaceae). Isolated compounds: 6955, 14084.
- T3946 *Luvunga scandens* (Rutaceae); SAN YE TENG JU; India Luvunga. Isolated compounds: 22781.
- T3947 *Luvunga* spp. (Rutaceae). Isolated compounds: 12847.
- T3948 *Lychnis coronaria* (Caryophyllaceae); MAO JIAN QIU LUO; Hairy Campion. Isolated compounds: 4903, 6682, 10063, 17662, 20271, 21415, 21590.
- T3949 *Lychnis dioica* (Caryophyllaceae); HONG JIAN QIU LUO; Red Campion. Isolated compounds: 17181.
- T3950 *Lychnis fulgens* (Caryophyllaceae); DA HUA JIAN QIU LUO; Brilliant Campion. Used part: root and whole herb. TCM Effects: To clear heat and disinhibit urine, fortify spleen, quiet spirit. TCM Indications: Inhibited urination, child gan accumulation, night sweating, headache, insomnia. Isolated compounds: 6678, 17662.
- T3951 *Lychnis viscaria* (Caryophyllaceae); YANG JIAN QIU LUO; German Catchfly. Isolated compounds: 6852.
- T3952 *Lychnophora ericoides* (Asteraceae); Falsa Arnica (in Brazil). Isolated compounds: 2455, 5531.
- T3953 *Lycianthes biflora* (Solanaceae); HONG SI XIAN; Twoflower Red silkyarn. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse phlegm and relieve cough. TCM Indications: Cough, asthma, dysentery, heat strangury, rabid dog bite, red swelling of clove sore, bleeding due to external injury. Isolated compounds: 2368, 3723.
- T3954 *Lycium barbarum* (Solanaceae); NING XIA GOU QI GEN PI; Barbary Wolfberry Root-bark*. Used part: root cortex. TCM Effects: See *Lycium chinense*. TCM Indications: See *Lycium chinense*. Isolated compounds: 19542.
- T3955 *Lycium barbarum* (Solanaceae); NING XIA GOU QI ZI; Barbary Wolfberry Fruit. Used part: fruit. TCM Effects: See *Lycium chinense*.
- TCM Indications: See *Lycium chinense*. Isolated compounds: 2001, 4293, 10872, 13823, 17093, 17238, 19542, 22976.
- T3956 *Lycium chinense* (Solanaceae); GOU QI GEN PI; Chinese Wolfberry Root-bark. Equivalent plant: *Lycium barbarum*. Used part: root cortex. TCM Effects: To eliminate heat in blood, lower vacuity heat. TCM Indications: Diabetes mellitus, malaria, tidal fever with night sweat, child gan accumulation with fever, cough and hemoptysis or dyspnea, blood ejection, spontaneous external bleeding. Isolated compounds: 1345, 3695, 5534, 9366, 12327, 12891, 12893, 16856, 19542, 19983, 21594.
- T3957 *Lycium chinense* (Solanaceae); GOU QI YE; Chinese Wolfberry Leaf. Used part: leaf. TCM Effects: To supplement vacuity and boost essence, clear heat and allay thirst, dispel wind and brighten eyes. TCM Indications: Vacuity taxation with fever, vexation and thirst, sore red eyes and clouded vision, eye screen, night blindness, flooding, vaginal discharge, heat toxin sores. Isolated compounds: 4592, 4593, 10913, 11082, 18266, 19987, 22256, 22702, 22703.
- T3958 *Lycium chinense* (Solanaceae); GOU QI ZI; Chinese Wolfberry Fruit. Equivalent plant: *Lycium barbarum*. Used part: fruit. TCM Effects: To nourish liver, brighten eyes, enrich kidney, moisten lung, lower blood pressure. TCM Indications: Lassitude in lumbus and knees, emission, dizziness and dim vision, lung disease with cough, diabetes mellitus. Isolated compounds: 1048, 1113, 1845, 2001, 2318, 3040, 3209, 3585, 3695, 3773, 4293, 4468, 4491, 8817, 10233, 10872, 11123, 12488, 12891, 13098, 14230, 14236, 14350, 14352, 14387, 14433, 14558, 14625, 15528, 15729, 15771, 15772, 15901, 17238, 18834, 19120, 19542, 19983, 20369, 20732, 21945, 22060, 22554, 22976.
- T3959 *Lycium chinense* var. *potaninii* (Solanaceae); BEI FANG GOU QI GEN PI; Northern Wolfberry Root-bark*. Isolated compounds: 19542.
- T3960 *Lycogala epidendrum* (Lycogalaceae); FEN LIU JUN; Wolfs-milk Slime. Used part: sporocarp. TCM Effects: To eliminate inflammation and relieve pain. Isolated compounds: 1624, 1625, 2473, 2474, 2475, 2476, 13195, 13196, 13197, 13198, 13199, 20278.
Lycoperdon capitatum = *Pisolithus tinctorius*
- T3961 *Lycoperdon pyriforme* (Lycoperdaceae); LI XING MA BO; Pear-like Puff-ball. Used part: sporocarp. TCM Effects: See *Lasiosphaera fenlzii*. TCM Indications: See *Lasiosphaera fenlzii*. Isolated compounds: 14207.
- T3962 *Lycopersicon esculentum* (Solanaceae); FAN QIE; Tomato. Used part: fresh fruit. TCM Effects: To engender liquid and allay thirst, fortify stomach and disperse food. TCM Indications: Thirst, inappetence. Isolated compounds: 1162, 2309, 3208, 3210, 3215, 7375, 7376, 7979, 9363, 11418, 11754, 13212, 13213, 13214, 13215, 13216, 13217, 13218, 13219, 13222, 13243, 14163, 15135, 17090, 18003, 19087, 19760, 20060, 20146, 21434, 21435, 21662, 22058.
- T3963 *Lycopersicon esculentum* var. *cerasiforme* (Solanaceae); YING TAO FAN QIE; Cherry Tomato*. Isolated compounds: 7377, 7378, 13242.
- T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*] (Lycopodiaceae); GAO SHAN BIAN ZHI SHI SONG; Alpine Clubmoss*. Used part: whole herb. TCM Effects: To quicken blood, relieve pain. TCM Indications: Impediment pain in joints, knocks and falls. Isolated compounds: 13187.
- T3965 *Lycopodium annotinum* (Lycopodiaceae); DAN SUI SHI SONG;

- Interrupted Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Wind-damp impediment pain, numbness in limbs, menstrual disorder, knocks and falls. Isolated compounds: 1300, 1323, 1332, 1333, 13192, 13200, 13244.
- T3966 *Lycopodium annotinum* var. *acrifolium* (Lycopodiaceae); LIANG NIAN SHI SONG; Sharpleaf Clubmoss*. Isolated compounds: 567.
- T3967 *Lycopodium carolinianum* (Lycopodiaceae); KA LUO LAI NA SHI SONG; Carolina Clubmoss*. Isolated compounds: 3431.
- T3968 *Lycopodium carolinianum* var. *affine* (Lycopodiaceae); SI KA LUO LAI NA SHI SONG; Carolina-like Clubmoss*. Isolated compounds: 3207.
- T3969 *Lycopodium casuarinoides* (Lycopodiaceae); TENG SHI SONG. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, brighten eyes, resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls, menstrual disorder, night sweating, conjunctivitis, night blindness, burns and scalds, toxin swelling of sores. Isolated compounds: 16117.
- T3970 *Lycopodium cernuum* (Lycopodiaceae); PU DI WU GONG; Cernuous Clubmoss. Used part: whole plant. TCM Effects: See *Lycopodium japonicum*. TCM Indications: See *Lycopodium japonicum*. Isolated compounds: 1488, 3040, 3430, 3431, 7017, 7018, 13170, 13171, 13172, 13173, 13174, 13175, 13176, 13177, 13184, 15527, 16117, 16327, 16377, 19768, 19774, 20369.
Lycopodium clavatum = *Lycopodium japonicum*
- T3971 *Lycopodium complanatum* (Lycopodiaceae); GUO JIANG LONG; Complanate Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Wind-damp impediment pain, deadlimb, knocks and falls, menstrual disorder. Isolated compounds: 3948, 13183, 13223, 14571, 15889, 16377, 16421, 19768, 21425.
- T3972 *Lycopodium inundatum* (Lycopodiaceae). Isolated compounds: 16117.
- T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*] (Lycopodiaceae); SHEN JIN CAO; Common Japanese Clubmoss. Equivalent plant: *Lycopodium cernuum*. Used part: whole plant. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve cough, resolve toxin. TCM Indications: Wind-cold-damp impediment, aching pain in joints, arthritis, dysmenorrhea, skin numbness, weakness in limbs, jaundice, cough, knocks and falls, sores, zoster, scalds. Isolated compounds: 3809, 3810, 3813, 6122, 7741, 7768, 13182, 13185, 13186, 13191, 13223, 16117, 16313, 16375, 16376, 16377, 16420.
- T3974 *Lycopodium lucidulum* (Lycopodiaceae); GUANG LIANG SHI SONG; Shining Clubmoss*. Isolated compounds: 2617, 5398, 5663, 5664, 5687, 5688, 13042, 13043, 13046, 13051, 16371, 16372, 16738, 17151, 20203, 21064, 21065, 21066, 21067.
- T3975 *Lycopodium megastachyum* (Lycopodiaceae). Isolated compounds: 17150, 19770.
- T3976 *Lycopodium obscurum* (Lycopodiaceae); YU BAI SHI SONG; Tree Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and free network vessels. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, numbness of limbs, sprain from knocks and falls, sequel of poliomyelitis. Isolated compounds: 379, 568, 2487, 13194, 15786, 16117, 16375, 16376, 21848.
Lycopodium phlegmaria = *Phlegmariurus phlegmaria*
Lycopodium selago = *Huperzia selago*
Lycopodium serratum = *Huperzia serrata*
- T3977 *Lycopodium serratum* var. *thunbergii* (Lycopodiaceae); JU CHI SHI SONG; Sawtooth Clubmoss*. Isolated compounds: 19764.
- T3978 *Lycopodium sitchense* (Lycopodiaceae). Isolated compounds: 16117.
- T3979 *Lycopus europaeus* (Lamiaceae); OU DI SUN; European Bugleweed. Isolated compounds: 12925.
- T3980 *Lycopus lucidus* (Lamiaceae); ZE LAN; Shiny Bugleweed. Used part: aerial parts. TCM Effects: To quicken blood and transform stasis, move water and disperse swelling, resolve toxin and eliminate welling abscess. TCM Indications: Amenorrhea, concretion and conglomeration, postpartum blood stasis abdominal pain, edema in body and face, knocks and falls, incised wound. Isolated compounds: 6178, 13224.
- T3981 *Lycopus lucidus* (Lamiaceae); ZE LAN GEN; Shiny Bugleweed Root. Used part: rhizome. TCM Effects: To transform stasis and stanch bleeding, boost *qi* and disinhibit water. TCM Indications: Blood ejection, spontaneous external bleeding, postpartum abdominal pain, vaginal discharge, jaundice, edema, *qi* vacuity and hypodynamia. Isolated compounds: 13224.
- T3982 *Lycopus virginicus* (Lamiaceae); FU JI NI YA DI SUN; Bugleweed. Isolated compounds: 12925.
- T3983 *Lycoris aurea* (Amaryllidaceae); DA YI ZHI JIAN; Golden Lycoris. Used part: bulb. TCM Effects: To moisten lung and relieve cough, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, hemoptysis, *yin* vacuity consumption fever, inhibited urination, swelling toxin of welling abscess and sore, clove sore tubercle, burns and scalds. Isolated compounds: 8083, 9612, 13236, 13237, 13241, 18050, 20891.
- T3984 *Lycoris chinensis* (Amaryllidaceae); ZHONG GUO SHI SUAN; Chinese Lycoris. Used part: bulb. TCM Effects: See *Lycoris radiata*. TCM Indications: See *Lycoris radiata*. Isolated compounds: 17573.
- T3985 *Lycoris Guangxiensis* (Amaryllidaceae); GUANG XI SHI SUAN; Guangxi Lycoris. Isolated compounds: 15288, 15750.
- T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*] (Amaryllidaceae); SHI SUAN; Shorttube Lycoris. Equivalent plant: *Lycoris chinensis*. Used part: bulb. TCM Effects: To dispel phlegm and promote vomiting, resolve toxin and dissipate binds. TCM Indications: Poliomyelitis, muscle weakness, rheumatic arthritis, pain in joints due to rheumatism, throat wind, nipple moth, swelling pain in throat, phlegm-drool and congesting lung, food poisoning, seep in chest and abdomen, malign sore and swelling toxin, hemorrhoids and fistulas, knocks and falls, intractable lichen, burns and scalds, snake bite. Isolated compounds: 4241, 5081, 5991, 6920, 8083, 9187, 9547, 9612, 13236, 13237, 13238, 13239, 13240, 13241, 14288, 15788, 17573, 17850, 18050, 20891, 22232.
- T3987 *Lycoris sanguinea* (Amaryllidaceae); TIE SE JIAN; Orange Lycoris. Isolated compounds: 13236, 13238, 13239.
- T3988 *Lycoris squamigera* (Amaryllidaceae); LU CONG; Autumn Lycoris. Used part: bulb. TCM Effects: To resolve toxin, dispel phlegm,

- disinhibit urine, promote vomiting. TCM Indications: Swelling pain in throat, swelling toxin of sore and welling abscess, scrofula, cough of phlegm asthma, edema, inhibited urination, food poisoning. Isolated compounds: 8083, 17573.
- T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*] (Lygodiaceae); QU ZHOU HAI JIN SHA; Flexuose Climbing Fern. Used part: whole herb. TCM Effects: To soothe sinews and free network vessels, clear heat and disinhibit damp, stanch bleeding. TCM Indications: Wind-damp pain, numbness of limbs, knocks and falls, urinary tract infection, calculus of urinary system, edema, dysentery, swelling toxin of sore and welling abscess, infant mouth sore, fire eye, lichen, bleeding due to external injury. Isolated compounds: 13245, 14144, 19087.
- T3990 *Lygodium japonicum* (Lygodiaceae); HAI JIN SHA; Japanese Climbing Fern. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury, quicken blood and free network vessels. TCM Indications: Heat strangury, stone strangury, blood strangury, inhibited urination [=dysuria], edema, white turbidity, vaginal discharge, hepatitis, diarrhea, dysentery, common cold with fever, cough and asthma, swelling pain in throat, mouth sore, red eyes with gall, mumps, mammary welling abscess, erysipelas, zoster, burns and scalds, itchy skin, wound swelling from knocks and falls, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 4135.
- Lygodium pinnatifidum* = *Lygodium flexuosum*
- T3991 *Lyonia ovalifolia* (Ericaceae); LI MU; Tibet Lyonia. Used part: branchlet-leaf and fruit. TCM Effects: To quicken blood and relieve pain, dispel wind and resolve toxin. TCM Indications: Knocks and falls, fracture, lichen sore. Isolated compounds: 1928, 2332, 7278, 9915, 11085, 13246, 13247, 13248, 19987.
- T3992 *Lyonia ovalifolia* var. *elliptica* (Ericaceae); XIAO GUO NAN ZHU; Littlefruit Lyonia. Used part: branch-leaf, root or fruit. TCM Effects: To supplement spleen and boost kidney, quicken blood and strengthen sinews. TCM Indications: Spleen vacuity diarrhea, lassitude in lumbar and knees, knocks and falls. Isolated compounds: 13246, 13247, 13248.
- T3993 *Lyophyllum connatum* (Tricholomataceae); Oshiroishimeji (in Japanese). Isolated compounds: 15943.
- T3994 *Lysichitum americanum* (Araceae); MEI ZHOU GUAN YIN LIAN; Skunk Cabbage. Isolated compounds: 10629, 13259.
- T3995 *Lysidice rhodostegia* (Fabaceae); YI HUA; Redbracted Lysidice. Used part: root. TCM Effects: To quicken blood and relieve pain, disperse swelling and stanch bleeding. TCM Indications: Knocks and falls, fracture, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 13260, 13261, 13262, 14949, 14950, 17283, 18651.
- T3996 *Lysimachia candida* (Primulaceae); DAN TIAO CAO; White Pearlweed. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Swelling pain in throat, swelling toxin of welling abscess and sore, mammary welling abscess, poisonous snake bites, fracture due to knocks and falls, wind-damp impediment pain, beriberi with edema, paddy-field dermatitis. Isolated compounds: 3073.
- T3997 *Lysimachia capillipes* (Primulaceae); XI GENG XIANG CAO; Hairytalk Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, regulate menstruation, resolve toxin. TCM Indications: Common cold with cough, wind-damp impediment pain, distending pain in stomach duct and abdomen, menstrual disorder, clove sore, snake bite. Isolated compounds: 3123, 3124, 3125, 3126, 3127, 3128, 3129, 12020.
- T3998 *Lysimachia christinae* (Primulaceae); DA JIN QIAN CAO; Christina Loosestrife. Used part: herb. TCM Effects: To disinhibit water and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Gallstones, calculus of urinary system, heat strangury, nephritis with edema, damp-heat jaundice, swollen welling abscess, sore and boil, poisonous snake bite, knocks and falls. Isolated compounds: 11642, 12018, 12020, 12066, 12067, 12089, 12090, 18317, 21093, 21634.
- T3999 *Lysimachia clethroides* (Primulaceae); ZHEN ZHU CAI; Clethra Loosestrife. Used part: root or herb. TCM Effects: To quicken blood and regulate menstruation, disinhibit water and disperse edema. TCM Indications: Menstrual disorder, vaginal discharge, child *gan* accumulation, edema, dysentery, throat pain, mammary welling abscess, knocks and falls. Isolated compounds: 3030, 3032, 3033, 3034, 17858.
- T4000 *Lysimachia congestiflora* (Primulaceae); JU HUA GUO LU HUANG; Denseflower Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve cough and transform phlegm, resolve toxin and disinhibit damp, disperse accumulation and expel stone. TCM Indications: Wind-cold common cold, cough with profuse phlegm, swelling pain in throat, jaundice, gallstones, urethral stone, child *gan* accumulation, welling abscess and flat abscess with clove sore, poisonous snake bite. Isolated compounds: 13263.
- T4001 *Lysimachia davurica* (Primulaceae); HUANG LIAN HUA; Dahurian Loosestrife. Used part: whole herb with root. TCM Effects: To calm and lower blood pressure. TCM Indications: Hypertension, headache, insomnia. Isolated compounds: 4699, 4700, 9484.
- T4002 *Lysimachia foenum-graecum* (Primulaceae); LING XIANG CAO; Strongfragrant Loosestrife. Used part: whole herb. TCM Effects: To resolve exterior, relieve pain, move *qi*, expel roundworm. TCM Indications: Common cold with headache, swelling pain in throat, toothache, distention fullness in chest and abdomen, ascariasis. Isolated compounds: 9500.
- T4003 *Lysimachia microcarpa* (Primulaceae); XIAO GUO XIANG CAO; Smallfruit Loosestrife*. Used part: whole herb. TCM Effects: To diffuse lung and resolve exterior, relieve cough and calm asthma. TCM Indications: Common cold, cough, asthma. Isolated compounds: 9500.
- T4004 *Lysimachia paridiformis* (Primulaceae); CHONG LOU PAI CAO; Parishshape Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough, resolve toxin. TCM Indications: Wind-damp pain, pain in stomach duct and abdomen, cough, knocks and falls, clove sore and swollen boil, poisonous snake bite. Isolated compounds: 16664.
- T4005 *Lysionotus pauciflorus* (Gesneriaceae); SHI DIAO LAN; Fewflower

Lysionotus. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve cough and transform phlegm, dispel stasis and regulate menstruation. TCM Indications: Tuberculosis, bone tuberculosis, scrofula, chronic bronchitis, wind-damp impediment pain, cough and asthma with abundant phlegm, menstrual disorder, dysmenorrhea, knocks and falls, boil. Isolated compounds: 13264.

T4006 *Lythrum anceps* (Lythraceae); RI BEN QIAN QU CAI; Twoedged Loosestrife. Used part: whole herb. TCM Effects: See *Lythrum salicaria*. TCM Indications: See *Lythrum salicaria*. Isolated compounds: 13267.

T4007 *Lythrum salicaria* (Lythraceae); QIAN QU CAI; Spiked Loosestrife. Equivalent plant: *Lythrum anceps*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Dysentery, diarrhea, hematochezia, flooding, ulcerating sores, blood ejection, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 3551, 4439, 6757, 8095, 12952, 13268, 13269, 13270, 13271, 13272, 13273, 13274, 13275, 13276, 13277, 13278, 13279, 13280, 13460, 16196.

T4008 *Lytta caraganae* (Meloidae); QING NIANG ZI; Mung Bean Blister Beetle. Used part: dried body. TCM Effects: To attack toxin and expel stasis. TCM Indications: Scrofula, rabid dog bite. Isolated compounds: 3094.

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T4009 *Maackia amurensis* (Fabaceae); CHAO XIAN HUAI; Amur Maackia. Used part: flower. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Bleeding, sore toxin of welling abscess and flat abscess. Isolated compounds: 6290, 12258, 13281, 13901.

T4010 *Maackia* sp. (Fabaceae). Isolated compounds: 18020.

T4011 *Macadamia ternifolia* (Proteaceae); AO ZHOU JIAN GUO; Queensland Nut. Isolated compounds: 5283, 16561, 17963.

T4012 *Macaranga conifera* (Euphorbiaceae); ZHEN YE XUE TONG; Conifer Macaranga. Isolated compounds: 1405, 5919, 6497, 10400, 11248, 11490, 21440.

T4013 *Macaranga tanarius* (Euphorbiaceae); XUE TONG; Common Macaranga. Isolated compounds: 7617, 7950, 15876, 20667, 20668.

T4014 *Macaranga triloba* (Euphorbiaceae); SAN LIE XUE TONG; Trilobate Macaranga*. Isolated compounds: 1411, 1416, 1437, 5638, 16498.

T4015 *Machaerium* spp. Isolated compounds: 3004.

T4016 *Machilus japonica* (Lauraceae); RI BEN NAN; Japanese Machilus*. Isolated compounds: 8085, 13295.

T4017 *Machilus odoratissima* (Lauraceae); JI XIANG RUN NAN; Extreme-fragrant Machilus*. Isolated compounds: 15994, 15995, 15996, 15997.

T4018 *Machilus thunbergii* (Lauraceae); HONG NAN PI; Red Nanmu Bark. Used part: bark. TCM Effects: To warm center and normalize *qi*, soothe channels and quicken blood, disperse swelling and relieve pain. TCM Indications: Sprain and contusion, incessant vomiting and diarrhea, cramp and swelling of feet. Isolated compounds: 3308, 8089, 9020, 11447, 12749, 13290, 13293, 15713, 15864, 15926, 18655, 19542, 19777.

T4019 *Machilus zuihoensis* (Lauraceae); TAI WAN RUI FANG RUN NAN;

Zuiho Machilus. Isolated compounds: 13294, 14047, 19628, 23029.

T4020 *Macleaya cordata* (Papaveraceae); BO LUO HUI; Pink Plumepoppy. Used part: whole herb with root. TCM Effects: To dispel wind, dissipate stasis, resolve toxin, relieve pain, kill worms. TCM Indications: Ulcer of uterine cervix, carcinoma of uterine cervix, carcinoma of thyroid, swollen welling abscess and clove sores, ulcer of lower limb, hemorrhoids, eczema, snake or insect bites, painful swelling from knocks and falls, pain in joints due to rheumatalgia, decayed toothache, intractable lichen, trichomoniasis, brandy nose. Isolated compounds: 930, 2523, 3498, 7399, 7416, 16473, 19284.

T4021 *Macleaya* spp. (Papaveraceae). Isolated compounds: 3498.

T4022 *Maclura pomifera* (Moraceae); SANG CHENG; Osage Orange. Isolated compounds: 4337, 9857, 15715, 16249, 17695.

T4023 *Maclura tinctoria* (Moraceae); ZHUO SE SANG CHENG; Tinctorial Osage Orange*. Isolated compounds: 16210, 20327.

T4024 *Macroccoccus pomiferus* (Menispermaceae). Isolated compounds: 5082, 5085, 14106.

T4025 *Macropiper excelsum* (Piperaceae); GAO DA HU JIAO; Pepper-tree. Isolated compounds: 6745.

T4026 *Macrothelypteris oligophlebia* (Thelypteridaceae); JIN JI WEI BA CAO GEN; Needle-ear Fern*. Used part: rhizome. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, stanch bleeding and kill worms. TCM Indications: Edema, sore and boil, burns and scalds, bleeding due to external injury, ascariasis. Isolated compounds: 5371, 10263, 13452.

T4027 *Maesa chisia* (Myrsinaceae); HUI YE DU JING SHAN; Greyleaf Maesa. Isolated compounds: 20169.

T4028 *Maesa indica* (Myrsinaceae); LIANG MIAN QING; Indian Maesa. Used part: whole herb or leaf. TCM Effects: To clear heat and disinhibit damp, lower blood pressure. TCM Indications: Hepatitis, diarrhea, measles papules, hypertension. Isolated compounds: 13350.

T4029 *Maesa japonica* (Myrsinaceae); DU JING SHAN; Japanese Maesa. Used part: root and leaf. TCM Effects: To dispel wind, resolve epidemic toxin, disperse swelling. TCM Indications: Febrile infectious diseases, generalized pain, vexation and agitation, thirst, edema, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 13350.

T4030 *Maesa lanceolata* (Myrsinaceae); PI ZHEN DU JING SHAN; Lanceolate Maesa*. Isolated compounds: 253, 255, 6048, 6269, 12472, 13351, 13352, 13353, 13354, 13355, 13356, 13357, 13358, 13359, 13360, 13829, 13830.

T4031 *Maesa perliarius* (Myrsinaceae); JI YU DAN; Treasure Maesa. Used part: whole herb. TCM Effects: To joint bones and disperse swelling, eliminate putridity and engender flesh. TCM Indications: Fracture due to knocks and falls, knife wound, swelling of clove. Isolated compounds: 13349, 13358.

T4032 *Maesa tenera* (Myrsinaceae); RUAN RUO DU JING SHAN; Slender Maesa. Isolated compounds: 13362, 13363.

T4033 *Magnolia acuminata* (Magnoliaceae); JIAN JIAN MU LAN; Cucumber-tree. Isolated compounds: 592, 16830, 22383.

T4034 *Magnolia biloba* (Magnoliaceae); AO YE HOU PO; Twolobed Official Mangolia. Used part: bark. TCM Effects: See *Magnolia officinalis*. TCM Indications: See *Magnolia officinalis*. Isolated

- compounds: 7513, 7514, 9631, 11519, 21074.
- T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*] (Magnoliaceae); WANG CHUN YU LAN; Biond Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 1843, 2303, 2387, 2388, 2389, 2390, 2391, 2392, 2858, 5135, 7512, 7719, 7721, 11851, 12920, 13387, 16555, 17414.
- T4036 *Magnolia coco* (Magnoliaceae); YE HE HUA; Chinese Magnolia Flower. Used part: flower. TCM Effects: To move *qi* and dissipate stasis, relieve cough, check discharge. TCM Indications: Liver depression and *qi* pain, knocks and falls, concretion and conglomeration, Vaginal discharge. Isolated compounds: 1344, 12917, 13372, 19183, 20319.
- T4037 *Magnolia compressa* (Magnoliaceae); *Magnolia compressa*. Isolated compounds: 16439.
- T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*] (Magnoliaceae); YU LAN; Yulan Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 591, 946, 2759, 7719, 7722, 8086, 8093, 9209, 12750, 13374, 15426, 19183, 22383.
Magnolia fargesii = *Magnolia biondii*
- T4039 *Magnolia grandiflora* (Magnoliaceae); HE HUA YU LAN; Southern Magnolia. Used part: flower and bark. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain. TCM Indications: Externally contracted wind-cold, headache and nasal congestion, distending pain in stomach duct, vomiting and diarrhea, hypertension, tuberculosis. Isolated compounds: 12917, 13374, 13375, 13376, 13377, 13388, 13654, 13655, 15781, 16977, 19183, 20569.
Magnolia heptapata = *Magnolia denudata*
- T4040 *Magnolia kobus* (Magnoliaceae); RI BEN XIN YI; Kobus Magnolia. Isolated compounds: 7385, 19183.
- T4041 *Magnolia liliflora* (Magnoliaceae); XIN YI; Lily Magnolia Buds. Equivalent plant: *Magnolia liliflora*, *Magnolia sprengeri*, *Magnolia biondii*, *Magnolia denudata*. Used part: flower bud. TCM Effects: To dissipate wind-cold, relieve stuffed nose. TCM Indications: Wind-cold common cold, headache, nasal congestion and runny nose, nasitis, nasosinusitis. Isolated compounds: 3760, 7521, 12497, 13387, 16900, 22383.
- T4042 *Magnolia liliflora* (Magnoliaceae); ZI YU LAN PI; Lily Magnolia Bark. Used part: bark. TCM Effects: To rectify *qi* and eliminate damp, calm asthma. TCM Indications: Liquor jaundice, damp itchy in genitals, *lai*, double tongue, welling abscess and flat abscess, edema. Isolated compounds: 19183.
- T4043 *Magnolia mutabilis* (Magnoliaceae); BIAN XING MU LAN; Mutable Magnolia*. Isolated compounds: 19777.
- T4044 *Magnolia obovata* (Magnoliaceae); RI BEN HOU PO; Whiteleaf Japanese Magnolia. Isolated compounds: 322, 532, 7517, 7894, 9631, 12497, 12917, 12917, 13373, 13388.
- T4045 *Magnolia officinalis* (Magnoliaceae); HOU PO; Officinal Magnolia. Equivalent plant: *Magnolia biloba*. Used part: bark. TCM Effects: To dry damp and disperse phlegm, precipitate *qi* and eliminate fullness, lower blood pressure. TCM Indications: Amebic dysentery, vomiting and diarrhea, food accumulation and *qi* stagnation, abdominal distention and constipation, phlegm-rheum cough asthma. Isolated compounds: 85, 336, 928, 1348, 1763, 1857, 2412, 2561, 2795, 3194, 3242, 3688, 4029, 4550, 6746, 7513, 7514, 9044, 9631, 9669, 10449, 11519, 12843, 12849, 12850, 13364, 13365, 13366, 13367, 13373, 13374, 13378, 13379, 13380, 13381, 13382, 13383, 13384, 13385, 13386, 13388, 13393, 13395, 13396, 14491, 14827, 15888, 17376, 17458, 17459, 18532, 19183, 19306, 19910, 20556, 20992, 20995, 21074.
- T4046 *Magnolia praecocissima* (Magnoliaceae); ZHOU YE MU LAN; Wrinkleleaf Magnolia*. Isolated compounds: 394, 7077, 7512, 7720, 12241, 13394, 16154, 16675, 19777, 23006.
- T4047 *Magnolia pyramidata* (Magnoliaceae); JIN ZI TA MU LAN; Pyramidal Magnolia*. Isolated compounds: 18241, 18242, 18243, 18244, 18245, 18246, 18247, 18248.
- T4048 *Magnolia rostrata* (Magnoliaceae); DA YE HOU PO; Bigleaf Magnolia. Used part: bark. TCM Effects: To warm center and transform damp, move *qi* and disperse accumulation. TCM Indications: Distention fullness and sudden pain in chest and abdomen, food accumulation and *qi* stagnation, vomiting, diarrhea, cough with profuse phlegm. Isolated compounds: 5379, 13373, 13388, 13389.
- T4049 *Magnolia salicifolia* (Magnoliaceae); LIU YE MU LAN; Willowleaf Magnolia*. Isolated compounds: 1186, 1282, 7751, 13390, 13392, 19121.
- T4050 *Magnolia sieboldii* (Magnoliaceae); TIAN NV MU LAN; Oyama Magnolia. Used part: bud. TCM Effects: To disinhibit urine and disperse edema, moisten lung and relieve cough. TCM Indications: Lung vacuity cough, phlegm containing blood, liquor jaundice accumulation, double tongue, swollen welling abscess. Isolated compounds: 19922, 20569.
- T4051 *Magnolia* spp. (Magnoliaceae). Isolated compounds: 15751.
- T4052 *Magnolia sprengeri* (Magnoliaceae); WU DANG MU LAN; Sprenger Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 2858, 13373, 13393.
- T4053 *Mahonia acanthifolia* (Berberidaceae); CI YE SHI DA GONG LAO; Acanthus-leaved Mahonia. Isolated compounds: 16439.
- T4054 *Mahonia aquifolium* (Berberidaceae); JIAN YE SHI DA GONG LAO; Oregon-grape. Isolated compounds: 11344, 16439.
- T4055 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO MU; Leatherleaf Mahonia. Equivalent plant: *Mahonia fortunei*, *Mahonia japonica*. Used part: stem. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Lung heat cough, jaundice, diarrhea, dysentery, red eyes with gall, sores, eczema, scalds. Isolated compounds: 2303, 11851, 16555.
- T4056 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO YE; Leatherleaf Mahonia Leaf. Equivalent plant: *Mahonia fortunei*, *Mahonia japonica*. Used part: leaf. TCM Effects: To clear vacuity heat, dry damp, resolve toxin. TCM Indications: Tuberculosis and hemoptysis, steaming bone tidal fever, dizziness and tinnitus, limp aching lumbus and knees, damp-heat jaundice, vaginal discharge, dysentery, wind-heat common cold, red eyes with gall, swollen welling abscess and sores. Isolated compounds: no.
- T4057 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO ZI; Leatherleaf

- Mahonia Fruit. Equivalent plant: *Mahonia japonica*. Used part: fruit. TCM Effects: To clear vacuity heat, supplement kidney, dry damp. TCM Indications: Steaming bone tidal fever, limp aching lumbus and knees, dizziness and tinnitus, damp-heat diarrhea, vaginal discharge, strangury-turbidity. Isolated compounds: no.
- T4058 *Mahonia bodinieri* (Berberidaceae); XIAO GUO SHI DA GONG LAO; Bodinier Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4059 *Mahonia borealis* (Berberidaceae); PA LI BEI FANG SHI DA GONG LAO; Parry Northern Mahonia. Isolated compounds: 16439.
- T4060 *Mahonia confusa* (Berberidaceae); HU BEI SHI DA GONG LAO; Confused Mahonia. Equivalent plant: *Mahonia gracilipes*. Used part: root and stem. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat dysentery, diarrhea, jaundice, red eyes with gall, swollen welling abscess and sores, wind-damp-heat impediment, taxation fever steaming bone, hemoptysis, dizzy head. Isolated compounds: 2303, 11851, 16555.
- T4061 *Mahonia eurybracteata* (Berberidaceae); KUAN BAO SHI DA GONG LAO; Broad-bracteate Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4062 *Mahonia fortunei* (Berberidaceae); XI YE GONG LAO MU; Chinese Mahonia. Used part: stem. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 2300, 2303, 11851, 13374, 16439, 16555.
- T4063 *Mahonia fortunei* (Berberidaceae); XI YE GONG LAO YE; Chinese Mahonia Leaf. Used part: leaf. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 13374, 16555.
- T4064 *Mahonia gracilipes* (Berberidaceae); XI BING SHI DA GONG LAO; Subtriplinerved Mahonia. Used part: root and stem. TCM Effects: See *Mahonia confusa*. TCM Indications: See *Mahonia confusa*. Isolated compounds: 2303, 11851, 16555.
- T4065 *Mahonia griffithii* (Berberidaceae); GE LI FEI SI SHI DA GONG LAO; Griffith Mahonia. Isolated compounds: 16439.
- T4066 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO MU; Japanese Mahonia. Used part: stem. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 2300, 2303, 3934, 4032, 11736, 11851, 13374, 16555.
- T4067 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO YE; Japanese Mahonia Leaf. Used part: leaf. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 3934, 4032, 11736, 13374, 16555.
- T4068 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO ZI; Japanese Mahonia Fruit. Used part: fruit. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 11736.
- T4069 *Mahonia leschenaultii* (Berberidaceae); LAI SHI NA TE SHI DA GONG LAO; Leschenault Mahonia. Isolated compounds: 16439.
- T4070 *Mahonia manipurensis* (Berberidaceae); MAN NI PU ER SHI DA GONG LAO; Manipur Mahonia. Isolated compounds: 16439.
- T4071 *Mahonia repens* (Berberidaceae); PU FU SHI DA GONG LAO; Creeping Mahonia. Isolated compounds: 15881, 15885, 16439, 21270.
- T4072 *Mahonia shenii* (Berberidaceae); CHENG KOU SHI DA GONG LAO; Chengkou Mahonia. Used part: root and stem. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Damp-heat dysentery, diarrhea, jaundice (icterus, ICT), red eyes with gall, burns and scalds. Isolated compounds: 2303, 11851, 16555.
- T4073 *Mahonia sikkimensis* (Berberidaceae); XI JIN SHI DA GONG LAO; Sikkim Mahonia. Isolated compounds: 16439.
- T4074 *Mahonia simonsii* (Berberidaceae); XI MENG SI SHI DA GONG LAO; Simons Mahonia. Isolated compounds: 16439.
- T4075 *Mahonia* spp. (Berberidaceae). Isolated compounds: 16439, 16555.
- T4076 *Mahonia veitchiorum* (Berberidaceae); CHUAN DIAN SHI DA GONG LAO; Veitch Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4077 *Malbranchea aurantiaca* (Myxotrichaceae). Isolated compounds: 10564, 16805.
- T4078 *Malina elemi*. Isolated compounds: 16040, 16041.
- T4079 *Mallotus anomalus* (Euphorbiaceae); XIU MAO YE TONG; Anomalus Mallotu. Isolated compounds: 11227.
- T4080 *Mallotus apelta* (Euphorbiaceae); BAI BEI YE; Whitebackleaf Mallotus. Used part: leaf. TCM Effects: To clear heat, resolve toxin, dispel damp, stanch bleeding. TCM Indications: Phlegmon, suppurative tympanitis, goose-mouth sore, eczema, knocks and falls, bleeding due to external injury. Isolated compounds: 5592, 5593, 5598, 10049, 10051, 10810, 10811.
Mallotus chrysocarpus = *Mallotus repandus* var. *chrysocarpus*
- T4081 *Mallotus furetianus* (Euphorbiaceae). Isolated compounds: 13424, 13425.
- T4082 *Mallotus japonicus* (Euphorbiaceae); YE WU TONG; Japanese Mallotus. Used part: bark. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Gastric ulcer, duodenal ulcer, hepatitis, hematuria, vaginal discharge, sores, bleeding due to external injury. Isolated compounds: 2312, 2810, 2811, 6923, 8311, 11295, 11521, 11522, 13426, 13427, 13430, 13431, 13432, 13438, 18203, 19087.
- T4083 *Mallotus philippinensis* (Euphorbiaceae); CU KANG CHAI; Philippine Mallotus*. Used part: pericarpial glandular hairs. TCM Effects: To kill worms and relieve diarrhea. TCM Indications: Taeniasis, ascariasis, oxyuria disease. Isolated compounds: 13433, 13434.
- T4084 *Mallotus philippinensis* (Euphorbiaceae); LV SONG QIU MAO; Kamalatre. Used part: pericarpial glandular hairs. TCM Effects: To kill worms and relieve diarrhea. TCM Indications: Taeniasis, ascariasis, oxyuria disease. Isolated compounds: 2312, 6111, 10682, 11685, 13435, 13436, 13437, 17174, 18940.
Mallotus repandus = *Mallotus repandus* var. *chrysocarpus*
- T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*] (Euphorbiaceae); SHI YAN FENG; Stone Mallotus*. Used part: root, stem, leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, resolve toxin and disperse swelling, expel worms and relieve itch. TCM Indications: Wind-damp impediment, pain in lumbus and legs, deviated eyes and mouth, knocks and falls, swollen welling abscess and sores, taeniasis, eczema, intractable lichen, snake or dog bite. Isolated compounds: 18624, 18625.
- T4086 *Malus asiatica* (Rosaceae); LIN QIN; Chinese Pearleaf Crabapple.

- Used part: fruit. TCM Effects: To precipitate *qi* and loosen chest, engender liquid and allay thirst, harmonize center and relieve pain. TCM Indications: Diabetes mellitus, phlegm-rheum and food retention, glomus and congestion in chest and diaphragm, cholera, vomiting diarrhea with abdominal pain, dysentery. Isolated compounds: 7852.
- T4087 *Malus domestica* (Rosaceae); PING GUO HAI TANG; Domestic Apple*. Isolated compounds: 7996.
- T4088 *Malus pumila* (Rosaceae); PING GUO; Apple. Used part: fruit. TCM Effects: To boost stomach, engender liquid, eliminate vexation, arouse liquor. TCM Indications: Scant fluid and thirst, spleen vacuity diarrhea, food retention and abdominal distention, resolve liquor toxin. Isolated compounds: 11031, 15814, 17169, 17174, 18281.
- T4089 *Malus* sp. (Rosaceae). Isolated compounds: 3214, 7729, 13126, 15477, 17170.
- T4090 *Malus* spp. (Rosaceae). Isolated compounds: 17869.
- T4091 *Malva sylvestris* (Malvaceae); OU JIN KUI; High Mallow. Used part: flower, leaf and stem. TCM Effects: To disinhibit urine and free stool, clear heat and resolve toxin. TCM Indications: Urinary and fecal stoppage, vaginal discharge, scrofula, swelling pain in throat. Isolated compounds: 13460.
- T4092 *Mammea africana* (Clusiaceae); FEI ZHOU HUANG GUO MU; African Mammey Apple. Isolated compounds: 6181, 13464, 13467, 13473, 13809.
- T4093 *Mammea americana* (Clusiaceae); MEI ZHOU MAN MI PING GUO; Mammee Apple. Isolated compounds: 6181, 6183, 13467, 13468, 13469, 20490.
- T4094 *Mammea harmandii* (Clusiaceae). Isolated compounds: 13464, 13467, 13468, 13469, 13470, 13472.
- T4095 *Mammea longifolia* (Clusiaceae); CHANG YE MAN MI PING GUO; Longleaf Mammey*. Isolated compounds: 20489, 20490.
- T4096 *Mammea* sp. (Clusiaceae). Isolated compounds: 15715.
- T4097 *Mammillaria microcarpa* (Cactaceae); XIAO GUO YIN MAO QIU; Fishhook Cactus. Isolated compounds: 14796.
- T4098 *Mandevilla pentlandiana* (Apocynaceae); PENG TE MAN DE MU; Pentland Mandevilla*. Isolated compounds: 15497.
- T4099 *Mangifera indica* (Anacardiaceae); MANG GUO; Mango. Equivalent plant: *Mangifera persiciformis*. Used part: fruit. TCM Effects: To boost stomach, engender liquid, check vomiting, relieve cough. TCM Indications: Thirst, vomiting, reduced food intake, cough. Isolated compounds: 1024, 1025, 1824, 3214, 5510, 5799, 6757, 6966, 7802, 7852, 7853, 7951, 8095, 9387, 11525, 13481, 13483, 16317, 16381, 16425, 19041, 22520.
- T4100 *Mangifera indica* (Anacardiaceae); MANG GUO HE; Mango Seed. Used part: seed. TCM Effects: To fortify stomach and disperse food, move *qi* and transform phlegm. TCM Indications: Mounting *qi*, food stagnation, cough, testitis. Isolated compounds: 6431, 6432, 9717, 14929, 14930.
- T4101 *Mangifera indica* (Anacardiaceae); MANG GUO SHU PI; Mango Bark. Used part: bark. TCM Effects: To clear summerheat heat, stanch bleeding, resolve sore toxin. TCM Indications: Summerheat damage, generalized fever and aversion to cold. Isolated compounds: 1025, 4469, 4618, 7338, 9613, 10358, 10359, 11525, 13100, 13482, 13483, 14576, 14594, 14595, 16064.
- T4102 *Mangifera indica* (Anacardiaceae); MANG GUO YE; Mango Leaf. Used part: leaf. TCM Effects: To allay thirst, transform stagnation, relieve itch. TCM Indications: *Gan* accumulation, diabetes mellitus, eczema titillation, wart. Isolated compounds: 9717, 13481.
- T4103 *Mangifera persiciformis* (Anacardiaceae); BIAN TAO; Peachform Mango. Used part: fruit. TCM Effects: See *Mangifera indica*. TCM Indications: See *Mangifera indica*. Isolated compounds: 7951, 13481, 18317, 20711.
- T4104 *Manihot esculenta* (Euphorbiaceae); MU SHU DI SHANG BU FEN; Cassave Aerial Parts. Used part: leaf or root. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Toxin swelling of sores, scab and lichen. Isolated compounds: 1107, 1113, 7025, 7366, 7367, 13097, 20369, 20711, 20712.
- T4105 *Manilkara indica* (Sapotaceae); IN DU TIE XIAN ZI; Indian Balata*. Isolated compounds: 11198.
- T4106 *Manis pentadactyla* (Manidae); CHUAN SHAN JIA; Pangolin. Used part: scale. TCM Effects: To quicken blood and dissipate stasis, free menstruation and milk, disperse welling abscess. TCM Indications: Amenorrhea due to blood stasis, concretion and conglomeration, wind-damp impediment pain, galactostasis, swollen welling abscess, scrofula. Isolated compounds: 4535.
- T4107 *Mansonia gagei* (Sterculiaceae); MAN SUO NI YA XIN CAI; Mansonia Heartwood. Isolated compounds: 13519, 13520, 13521.
- T4108 *Marchantia paleacea* var. *diptera* (Marchantiaceae); ER YI TUO BAO DI QIAN; Twowing Palea Liverwort*. Isolated compounds: 16540.
- T4109 *Marchantia polymorpha* (Marchantiaceae); DI SUO LUO. Used part: lichen. TCM Effects: To clear heat and disinhibit damp, resolve toxin and close sores. TCM Indications: Damp-heat jaundice, swelling pain of welling abscess and sore, poisonous snake bite, burns and scalds, fracture, knife wound. Isolated compounds: 9426, 9816, 10034, 11528, 11681, 13550, 13551, 13552, 13553, 13554, 13555, 13556, 13557, 13558, 16300, 16984, 17811, 18839, 21352, 21354, 21356, 22171.
- T4110 *Marchantia* sp. (Marchantiaceae). Isolated compounds: 13084.
- T4111 *Marrubium peregrinum* (Lamiaceae); YANG OU XIA ZHI CAO; Peregrine Hoarhound. Isolated compounds: 21202.
- T4112 *Marrubium supinum* [Syn. *Lagopsis supina*] (Lamiaceae); BAI HUA XIA ZHI CAO; Whiteflower Lagopsis. Isolated compounds: 17812.
- T4113 *Marrubium velutinum* (Lamiaceae); DUAN RONG MAO OU XIA ZHI CAO; Velutinous Hoarhound*. Isolated compounds: 3607, 22370, 22371.
- T4114 *Marrubium vulgare* (Lamiaceae); OU XIA ZHI CAO; Common Hoarhound. Isolated compounds: 580, 1663, 2134, 2325, 2912, 7925, 13573, 13574, 17812, 17813.
- T4115 *Marsdenia condurango* (Asclepiadaceae); NAN MEI NIU NAI CAI; Condurango. Isolated compounds: 3964, 3965.
- T4116 *Marsdenia globifera* (Asclepiadaceae); QIU HUA NIU NAI CAI; Globose Condorvine. Isolated compounds: 1106, 1110, 1111, 1121.
- T4117 *Marsdenia koi* (Asclepiadaceae); DA YE NIU NAI CAI; Ko Condorvine. Isolated compounds: 13575, 13576.
- T4118 *Marsdenia oreophila* (Asclepiadaceae); HUI ZHU NIU NAI CAI; Beakstyle Condorvine. Used part: rhizome. TCM Effects: To stanch bleeding and dissipate stasis, free network vessels and relieve pain. TCM Indications: Bleeding due to external injury, fracture, lumbar and

- back pain. Isolated compounds: 13577.
- T4119 *Marsdenia roylei* (Asclepiadaceae); ROU LEI NIU NAI CAI; Roylei Condorvine*. Isolated compounds: 5129, 5131, 5242, 7468, 13578, 16032, 16033.
- T4120 *Marsdenia tenacissima* (Asclepiadaceae); TONG GUANG TENG; Tenacious Condorvine. Used part: stem, root or leaf. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, disinhibit damp and free milk, anticancer. TCM Indications: swelling pain in throat, lung heat cough asthma, damp-heat jaundice, inhibited urination [=dysuria], breast milk stoppage, sore and boil, carcinoma. Isolated compounds: 20930, 20931.
- T4121 *Marsilea quadrifolia* (Marsileaceae); PING; Water-clover. Used part: whole herb. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, stanch bleeding, eliminate vexation and quiet spirit. TCM Indications: Edema, heat strangury, inhibited urination [=dysuria], jaundice, blood ejection, spontaneous external bleeding, hematuria, flooding spotting and vaginal discharge, profuse menstruation, sleepless and vexation, diabetes mellitus, common cold, summer unacclimation in child, swollen welling abscess and sore toxin, scrofula, mastitis, swelling pain in throat, acute conjunctivitis, poisonous snake bites. Isolated compounds: 9638.
- T4122 *Matayba arborescens*. Isolated compounds: 3829.
- T4123 *Matricaria aurea* (Asteraceae); JIN SE MU JU; Aureate Mayweed*. Isolated compounds: 5903, 16837, 16838, 16840.
- T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU JU⁽³⁾; Mayweed. Used part: flower or whole herb. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, dispel wind-damp. TCM Indications: Common cold with fever, swelling pain in throat, lung heat cough asthma, heat impediment swelling and pain, swelling of sores. Isolated compounds: 1502, 2044, 2071, 2414, 2416, 2807, 3300, 3464, 3622, 7729, 9038, 9496, 13604, 13605, 16728, 21176, 22035.
- Matricaria recutita* = *Matricaria chamomilla*
- T4125 *Matricaria suffruticosa* (Asteraceae); BAN GUAN MU MU JU; Semi-frutex Mayweed*. Isolated compounds: 5236.
- T4126 *Matteuccia orientalis* (Onocleaceae); DONG FANG JIA GUO JUE; Oriental Ostrich Fern. Used part: rhizome or stem-leaf. TCM Effects: To dispel wind, stanch bleeding. TCM Indications: Wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 13609, 13611, 13993.
- T4127 *Matteuccia struthiopteris* (Onocleaceae); XIAO YE GUAN ZHONG; Matteuccia Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, kill worms, stanch bleeding. TCM Indications: Febrile diseases macular eruption, parotitis, damp-heat sore toxin, abdominal pain due to ascariasis, oxyuria disease, red dysentery and bloody stool, hematuria, blood ejection, spontaneous external bleeding, flooding and spotting [=metrorrhagia and metrostaxis]. Isolated compounds: 1599, 2909, 3551, 6678, 6679, 8077, 8668, 17700, 18162, 19983.
- T4128 *Maytenus buchananii* (Celastraceae); BU CHANG NAN MEI DENG MU; Buchanan Mayten. Isolated compounds: 13619, 13620, 13621, 13622.
- T4129 *Maytenus canariensis* (Celastraceae); JIA NA LI MEI DENG MU; Canari Mayten*^[1]. Isolated compounds: 16359, 16429, 17862, 21397.
- T4130 *Maytenus chuchuhuasca* (Celastraceae); QIU SHI MEI DENG MU; Chuchuhuasca Mayten*. TCM Effects: Anticarcinoma. TCM Indications: Skin cancer. Isolated compounds: 5655, 5656, 5744, 5745, 10267, 11786, 11787, 11788, 16411, 22811, 22812, 22813.
- T4131 *Maytenus confertiflorus* (Celastraceae); MI HUA MEI DENG MU; Crown-flowered Mayten. Used part: leaf. TCM Effects: To dispel stasis and relieve pain, resolve toxin and disperse swelling, anticancer. TCM Indications: Knocks and falls, lumbago, carcinoma. Isolated compounds: 12952, 13620, 13621.
- T4132 *Maytenus guangsiensis* (Celastraceae); GUANG XI MEI DENG MU; Guangxi Mayten*. Isolated compounds: 13621.
- T4133 *Maytenus heterophylla* (Celastraceae); YI YE MEI DENG MU; Heteroleaf Mayten*. Isolated compounds: 9470, 10565.
- T4134 *Maytenus hookeri* (Celastraceae); YUN NAN MEI DENG MU; Yunnan Mayten. Used part: leaf. TCM Effects: To transform stasis and disperse concretion, anticancer. TCM Indications: carcinoma. Isolated compounds: 13620, 13621.
- T4135 *Maytenus ilicifolia* (Celastraceae); DONG QING YE MEI DENG MU; Ilcis-leaf Mayten*. Isolated compounds: 16429.
- T4136 *Maytenus krukovii* (Celastraceae); KE SHI MEI DENG MU; Krukov Mayten*. Isolated compounds: 3327, 15789.
- T4137 *Maytenus mossambicensis* (Celastraceae); MO SANG BI KE MEI DENG MU; Mozambique Mayten*. Isolated compounds: 3356.
- T4138 *Maytenus ovatus* (Celastraceae); LUAN YE MEI DENG MU; Ovateleaf Mayten*. Isolated compounds: 13619, 13621.
- T4139 *Maytenus serrata* (Celastraceae); CHI YE MEI DENG MU; Serrate-leaved Mayten. Isolated compounds: 13618, 13619, 13621.
- T4140 *Maytenus* sp. (Celastraceae). Isolated compounds: 21397.
- T4141 *Meconopsis betonicifolia* (Papaveraceae); HUO XIANG YE LV RONG HAO; Betonyleaf Meconopsis. Isolated compounds: 7002, 16624, 16626, 16627.
- T4142 *Meconopsis cambrica* (Papaveraceae); WEI ER SHI LV RONG HAO; Welsh Poppy. Isolated compounds: 7980, 8524, 13630, 13631.
- T4143 *Meconopsis horridula* (Papaveraceae); DUO CI LV RONG HAO; Spiny Meconopsis. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, clear heat and relieve pain. TCM Indications: Knocks and falls, fracture, pain in chest and back, wind-heat headache, swelling pain in joints. Isolated compounds: 1096, 16627, 16628.
- T4144 *Meconopsis nepaulensis* (Papaveraceae); NI BO ER LV RONG HAO; Nepal Meconopsis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Lung heat cough, damp-heat jaundice, damp-heat edema, gastroenteritis, headache, dysmenorrhea, leukorrhea. Isolated compounds: 14590, 16627, 16628.
- T4145 *Meconopsis punicea* (Papaveraceae); HONG HUA LV RONG HAO; Redflower Meconopsis. Used part: whole herb with flower. TCM Effects: To clear heat and resolve toxin, disinhibit damp, relieve pain. TCM Indications: Ardent fever, tuberculosis, pneumonia, hepatitis, dysmenorrhea, leukorrhea, damp-heat edema, headache, hypertension. Isolated compounds: 866, 13630, 13994.
- T4146 *Meconopsis* spp. (Papaveraceae). Isolated compounds: 16627, 16628.
- T4147 *Medicago falcata* (Fabaceae); YE MU XU; Sickle Alfalfa. Used part: whole herb. TCM Effects: To fortify spleen and supplement vacuity,

- disinhibit urine and abate jaundice, soothe sinews and quicken network vessels. TCM Indications: Spleen vacuity and abdominal distention, indigestion, edema, jaundice, wind-damp impediment pain. Isolated compounds: 2017, 7821.
- T4148 *Medicago sativa* (Fabaceae); MU XU; Alfalfa. Used part: whole herb. TCM Effects: To clear heat and cool blood, disinhibit damp and abate jaundice. TCM Indications: Febrile diseases with vexation and fullness, jaundice, enteritis, dysentery, edema, urethral stone, hematochezia from hemorrhoids. Isolated compounds: 1673, 3059, 3209, 3774, 4190, 4604, 5010, 5440, 7775, 7883, 8050, 8762, 8763, 12843, 12849, 13018, 13456, 13635, 14469, 14619, 15146, 16118, 17024, 19395, 20168, 20254, 20444, 21589, 21662.
- T4149 *Medicago sativa* (Fabaceae); MU XU GEN; Alfalfa Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, free strangury and expel stone. TCM Indications: Febrile diseases with vexation and fullness, jaundice, urethral stone. Isolated compounds: 1040.
- T4150 *Medicago* sp. (Fabaceae). Isolated compounds: 13638.
- T4151 *Medicago* spp. (Fabaceae). Isolated compounds: 12908.
- T4152 *Medinilla magnifica* (Melastomataceae); HONG WEI SUAN JIAO GAN; Magnific Medinilla*. Isolated compounds: 15641, 15642.
- T4153 *Melaleuca alternifolia* (Myrtaceae); HU SHENG YE BAI QIAN CENG; Alternateleaf Melaleuca*. Isolated compounds: 20992.
- T4154 *Melaleuca leucadendra* (Myrtaceae); BAI QIAN CENG; Cajeput-tree. Used part: leaf. TCM Effects: To dispel wind and resolve exterior, disinhibit damp and relieve itch. TCM Indications: Common cold with fever, wind-damp bone pain, abdominal pain and diarrhea, wind papules, eczema. Isolated compounds: 7481.
- T4155 *Melia azadirachta* (Meliaceae); Chinaberry-tree. Isolated compounds: 13661, 15601, 15602, 15604.
- T4156 *Melia azedarach* (Meliaceae); KU LIAN PI; Chinaberry-tree Bark. Equivalent plant: *Melia toosendan*. Used part: dried stem or root cortex. TCM Effects: To expel worms and treat lichen. TCM Indications: Ascariasis, oxyuria disease, abdominal pain due to worm accumulation, scab and lichen with itching. Isolated compounds: 2050, 2054, 2055, 3710, 5194, 7945, 8249, 12328, 12329, 12330, 12952, 13660, 13661, 13664, 13665, 13666, 13667, 13668, 13669, 13670, 13671, 14544, 15603, 15606, 15610, 15611, 19177, 20966, 20967, 21448, 21977.
- T4157 *Melia azedarach* (Meliaceae); KU LIAN SHI; Chinaberry-tree Fruit. Used part: fruit. TCM Effects: To move *qi* and relieve pain, kill worms. TCM Indications: Pain in stomach duct and rib-side, mounting pain, abdominal pain due to worm accumulation, tinea capitis, frostbite (kibe). Isolated compounds: 4752, 4753, 4754, 4790, 15605, 21554.
- T4158 *Melia azedarach* (Meliaceae); KU LIAN YE; Chinaberry-tree Leaf*. Used part: leaf. TCM Effects: To clear heat and dry damp, kill worms and relieve itch, move *qi* and relieve pain. TCM Indications: Eczema titillation, sore lichen and scab *lai*, snake or insect bites, trichomonal vaginitis, mounting *qi* (hernia), painful swelling from knocks and falls. Isolated compounds: 21449, 21450.
- T4159 *Melia azedarach* (Meliaceae); LIAN HUA; Chinaberry-tree Flower. Used part: flower. TCM Effects: To clear heat and dispel damp, kill worms and relieve itch. TCM Indications: Prickly heat. Isolated compounds: 13675.
- T4160 *Melia azedarach* var. *japonica* (Meliaceae); RI BEN KU LIAN; Japanese Chinaberry-tree. Isolated compounds: 3308, 4791, 13669, 19705.
- T4161 *Melia indica* (Meliaceae); YIN JIAN; Indica Melia*. Isolated compounds: 15601, 15602.
- T4162 *Melia toosendan* (Meliaceae); CHUAN LIAN PI; Szechwan Chinaberry Bark. Used part: dried stem or root cortex. TCM Effects: See *Melia azedarach*. TCM Indications: See *Melia azedarach*. Isolated compounds: 4755, 4756, 11743, 13664, 13665, 13672, 14813, 15612, 20206, 21447, 21448, 21554, 21555, 21556.
- T4163 *Melia toosendan* (Meliaceae); CHUAN LIAN ZI; Szechwan Chinaberry Fruit. Used part: fruit. TCM Effects: To soothe liver, move *qi*, relieve pain, expel worms. TCM Indications: Chest and rib-side pain, distending pain in stomach duct, mounting *qi*, abdominal pain due to worm accumulation. Isolated compounds: 527, 14764, 15606, 15607, 15608, 15609, 21448.
- T4164 *Melicope coodeana* (Rutaceae); RU NI WENG DAO MI ZHU YU; Reunion-Island Melicope*. Isolated compounds: 6218, 16863, 21911.
- T4165 *Melicope ptelefolia* (Rutaceae). Isolated compounds: 13676, 13677.
- T4166 *Melicope semecarpifolia* (Rutaceae); SI ROU TUO GUO YE MI ZHU YU. Isolated compounds: 2047, 3974, 3975, 6289, 6404, 6405, 6642, 6708, 8824, 9226, 11605, 12254, 13673, 13674, 13685, 14072, 14254, 19690, 20002.
- T4167 *Melicope* sp. (Rutaceae). Isolated compounds: 12254.
- T4168 *Melicope* spp. (Rutaceae). Isolated compounds: 20978.
- T4169 *Melicope triphylla* (Rutaceae); SAN YE MI ZHU YU; Threeleaf Melicope. Isolated compounds: 16867.
- T4170 *Melilotus albus* (Fabaceae); BAI XIANG CAO MU XI; White Sweetclover. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, harmonize stomach and transform damp. TCM Indications: Summerheat-heat and oppression in chest, headache, bad breath, malaria, dysentery, strangury, skin sores. Isolated compounds: 5440.
- T4171 *Melilotus messanensis* (Fabaceae); XI XI LI CAO MU XI; Messania Sweetclover*. Isolated compounds: 13682, 13683, 13684.
- T4172 *Melilotus suaveolens* (Fabaceae); PI HAN CAO; Daghestan Sweetclover. Used part: whole herb. TCM Effects: To clear summerheat and transform damp, fortify stomach and harmonize center. TCM Indications: Summerheat-damp and oppression in chest, distended head and headache, dysentery, malaria, strangury syndrome, vaginal discharge, mouth sore, bad breath, sores, damp sore, scab and lichen, scrofula. Isolated compounds: 663, 664, 3383, 4134, 4139, 4141, 4142, 5440, 5665, 13678, 22195.
- T4173 *Melilotus suaveolens* (Fabaceae); PI HAN CAO GEN; Daghestan Sweetclover Root. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Scrofula. Isolated compounds: 4134.
- T4174 *Melissa officinalis* (Lamiaceae); XIANG FENG HUA; Bee Balm. Isolated compounds: 3767, 12420.
- T4175 *Melittis melissophyllum* (Lamiaceae); OU ZHOU MI FENG HUA; Balmleaf Metittis. Isolated compounds: 4626.
- T4176 *Melodinus balansae* (Apocynaceae); BEI SHI SHAN CHENG; Balansa Melodinus*. Isolated compounds: 784.
- T4177 *Melodinus celastroides* (Apocynaceae); NAN SHE TENG ZHUANG

- SHAN CHENG; *Celastrus Melodinus**. Isolated compounds: 22499.
- T4178 *Melodinus hemsleyanus* (Apocynaceae); CHUAN SHAN CHENG; Hemsley Melodinus. Used part: root or fruit. TCM Effects: To fortify spleen, supplement blood, clear heat (root), free menstruation and promote lactation, stanch bleeding, resolve toxin (fruit). TCM Indications: Spleen-stomach vacuity, anemia and scant milk, mouth sore, tongue sores (root), menstrual disorder, galactostasis, bleeding from hemorrhoids, swelling toxin of welling abscess and sore, snake bite (fruit). Isolated compounds: 5099, 10093, 10824.
- T4179 *Melodinus tenuicaudatus* (Apocynaceae); BO YE SHAN CHENG; Thin-leaf Melodinus. Isolated compounds: 20933.
- T4180 *Melodorum fruticosum* (Annonaceae). Isolated compounds: 463, 2257, 2261, 2262, 13712.
Melodorum glaucescens = *Fissistigma glaucescens*
Melodorum oldhamii = *Fissistigma oldhamii*
Meniscium simplex = *Pronephrium simplex*
- T4181 *Menispermum canadense* (Menispermaceae); MEI GUO BIAN FU GE; Canada Moonseed. Isolated compounds: 4685.
- T4182 *Menispermum dauricum* (Menispermaceae); BIAN FU GE; Asiatic Moonseed. Used part: rattan. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Lumbago, scrofula, swelling pain in throat, diarrhea and dysentery, swelling pain from hemorrhoids. Isolated compounds: 603, 604, 2343, 2344, 2345, 4846, 6512, 6886, 19955.
- T4183 *Menispermum dauricum* (Menispermaceae); BIAN FU GE GEN; Asiatic Moonseed Root. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, disinhibit damp. TCM Indications: Swelling pain in throat, lung heat cough, epidemic parotitis, diarrhea, jaundice, wind-damp impediment pain, swelling pain from hemorrhoids, snake or insect bites. Isolated compounds: 602, 603, 604, 3494, 4100, 4101, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4847, 5077, 5581, 6260, 6268, 6574, 9825, 10428, 13716, 13717, 14251, 15802, 15803, 17968, 19187, 19955, 20324, 21206, 21255, 22159.
Mentha arvensis = *Mentha haplocalyx*
Mentha arvensis var. *haplocalyx* = *Mentha haplocalyx*
Mentha cablin = *Pogostemon cablin*
Mentha canadaensis = *Mentha haplocalyx*
- T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*] (Lamiaceae); BO HE; Wild Mint. Used part: dried aerial parts. TCM Effects: To dissipate wind-heat, clear head and eyes, disinhibit pharynx and larynx, outthrust papules, resolve depression. TCM Indications: Chronic urticaria, infection of upper respiratory tract, sarcoma, wind-heat exterior syndrome, headache and red eyes, swelling pain in throat, non-eruption of measles, dormant papules with pruritus, liver depression and rib-side pain, abdominal distention. Isolated compounds: 139, 2444, 2445, 2887, 3045, 9515, 11533, 12420, 12843, 13774, 13775, 13776, 13779, 17376.
- T4185 *Mentha longifolia* (Lamiaceae); OU BO HE; Horse Mint. Isolated compounds: 7278, 9458, 12978, 12979, 12984.
- T4186 *Mentha piperita* (Lamiaceae); LA BO HE; Pepper Mint. Used part: leaf. TCM Effects: To course wind and dissipate heat, resolve toxin and dissipate binds. TCM Indications: Wind-heat common cold, headache, red eyes, sore pharynx, epidemic parotitis. Isolated compounds: 12420, 13779, 22768.
- T4187 *Mentha pulegium* (Lamiaceae); CHUN E BO HE; Pennyroyal Mint. Isolated compounds: 18190.
- T4188 *Mentha rotundifolia* (Lamiaceae); YU XIANG CAO; Apple Mint. Used part: whole herb. TCM Effects: To dispel wind, resolve toxin, harmonize stomach, moisten skin. TCM Indications: Common cold, eye diseases, stomachache, sore and boil, cracking. Isolated compounds: 3237, 6455, 15413, 15415, 15926, 17457, 18190, 18954, 19309.
- T4189 *Mentha* sp. (Lamiaceae). Isolated compounds: 12843, 13776.
- T4190 *Mentha spicata* (Lamiaceae); LIU LAN XIANG; Spearmint. Used part: whole herb. TCM Effects: To resolve exterior, harmonize center, rectify *qi*. TCM Indications: Common cold, cough, headache, sore pharynx, red eyes, nosebleed(epistaxis), stomachache, abdominal distention, cholera with vomiting and diarrhea, dysmenorrhea, numbness in limbs, painful swelling from knocks and falls, sore and boil, cracking. Isolated compounds: 3237.
- T4191 *Mentha* spp. (Lamiaceae). Isolated compounds: 17454, 18954.
- T4192 *Mentha sylvestris* (Lamiaceae); SEN LIN BO HE; Forest Mint. Isolated compounds: 17457.
- T4193 *Menyanthes* sp. (Gentianaceae). Isolated compounds: 5191.
- T4194 *Menyanthes trifoliata* (Gentianaceae); SHUI CAI; Bogbean. Used part: leaf or whole herb. TCM Effects: To fortify spleen and disperse food, nourish heart and quiet spirit, clear heat and disinhibit urine. TCM Indications: Gastritis, indigestion, palpitation and insomnia, damp-heat jaundice, cholecystitis, edema, inhibited urination, inhibited voidings of reddish urine. Isolated compounds: 2850, 4415, 4416, 5615, 7851, 8291, 8296, 8297, 9088, 12950, 12952, 13773, 19623, 20168.
- T4195 *Menyanthes trifoliata* (Gentianaceae); SHUI CAI GEN; Bogbean Root. Used part: rhizome. TCM Effects: To moisten lung and suppress cough, suppress cough, lower blood pressure. TCM Indications: Cough, edema, wind-damp pain, hypertension. Isolated compounds: 5615, 7851, 8299, 13773.
- T4196 *Mercurialis annua* (Euphorbiaceae); YI NIAN SHENG SHAN DIAN; Annual Mercury. Isolated compounds: 22975.
- T4197 *Merremia dissecta* (Convolvulaceae); SHEN LIE YU HUANG CAO; Deeplobed Merremia*. Isolated compounds: 13784, 13785, 13786, 13787, 13788.
- T4198 *Merremia quinquefolia* (Convolvulaceae); WU YE YU HUANG CAO; Five-leaf Merremia*. Isolated compounds: 14487.
- T4199 *Mesembryanthemum anatomicum* (Aizoaceae); MING SONG YE JU; Anatomicum Fig*. Isolated compounds: 13796, 13797, 13798.
- T4200 *Mesembryanthemum edule* (Aizoaceae); SHI YONG RI ZHONG HUA; Hottentot Fig. Isolated compounds: 2320, 11252.
- T4201 *Mesembryanthemum expansum* (Aizoaceae); KUO ZHANG SONG YE JU; Expansum Fig*. Isolated compounds: 13796, 13797, 13798.
- T4202 *Mesembryanthemum tortuosum* (Aizoaceae); NIU QU SONG YE JU; Tortuous Fig*. Isolated compounds: 13796, 13797, 13798.
Mesogloea decipiens = *Nemacystus decipiens*
- T4203 *Mesua ferrea* (Clusiaceae); TIE LI MU; Common Mesua. Used part: bark, flower and seed. TCM Effects: To relieve cough and dispel

- phlegm, resolve toxin and disperse swelling. TCM Indications: Cough with profuse phlegm, swelling of sore welling abscess and boil, bleeding from hemorrhoids, scalds, poisonous snake bite. Isolated compounds: 5642, 5643, 6011, 6018, 6019, 6020, 6021, 6181, 10241, 10507, 13467, 13469, 13470, 13804, 13805, 13806, 13807, 13808, 13809, 13810, 13811.
- T4204 *Mesua racemosa* (Clusiaceae); ZONG ZHUANG TIE LI MU; Racemose Mesua*. Isolated compounds: 13471, 18514.
- T4205 *Mesua thwaitesii* (Clusiaceae). Isolated compounds: 6181, 13464.
- T4206 *Metaplexis japonica* (Asclepiadaceae); LUO MO; Japanese Metaplexis. Used part: whole herb or root. TCM Effects: To supplement essence and boost *qi*, free milk, resolve toxin. TCM Indications: Vacuity detriment and taxation damage, impotence, emission, vaginal discharge, scant breast milk, erysipelas, scrofula, clove sore, snake or insect bites. Isolated compounds: 2268, 4796, 5384, 8046, 11643, 12880, 13813, 16917, 19361, 22285.
- T4207 *Metaplexis japonica* (Asclepiadaceae); LUO MO ZI; Japanese Metaplexis Seed. Used part: seed. TCM Effects: To supplement kidney and boost essence, engender flesh and stanch bleeding. TCM Indications: Vacuity taxation, impotence, emission, incised wound and bleeding. Isolated compounds: 5527, 16034, 18528, 19375.
- T4208 *Metasequoia glyptostroboides* (Taxodiaceae); SHUI SHAN; Dawn Redwood. Used part: leaf and fruit. TCM Effects: To clear heat and resolve toxin, eliminate inflammation and relieve pain. TCM Indications: Swelling toxin of welling abscess and sore, lichen sore. Isolated compounds: 7751.
- T4209 *Michelia alba* (Magnoliaceae); BAI LAN HUA; Bailan Flower. Used part: flower. TCM Effects: To transform damp, move *qi*, relieve cough. TCM Indications: Oppression in chest and abdomen distention, summerheat stroke, cough, prostatitis, Vaginal discharge. Isolated compounds: 12917, 14827, 14829, 19183.
- T4210 *Michelia champaca* (Magnoliaceae); HUANG MIAN GUI; Champac Michelia. Used part: root. TCM Effects: To dispel wind-damp, disinhibit throat. TCM Indications: Wind-damp impediment pain, swelling pain in throat. Isolated compounds: 12917, 14829, 16675, 16713.
- T4211 *Michelia compressa* var. *formosana* (Magnoliaceae); WU XIN SHI; Formosan Michelia*. Isolated compounds: 14828, 14829, 14830, 19308.
- T4212 *Michelia doltsopa* (Magnoliaceae); NAN YA HAN XIAO; South Asia Michelia. Isolated compounds: 4939.
- T4213 *Michelia lanuginosa* (Magnoliaceae); CHANG MAO HAN XIAO; Longhairy Michelia*. Isolated compounds: 16675.
- T4214 *Michelia spaerantha* (Magnoliaceae); MAO GUO HAN XIAO; Hairyfruit Michelia. Isolated compounds: 20149.
- T4215 *Michelia yunnanensis* (Magnoliaceae); YUN NAN HAN XIAO; Yunnan Michelia. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Pharyngolaryngitis, nasitis, conjunctivitis, brain leak. Isolated compounds: 5967, 9797, 16675, 18673.
- T4216 *Miconia* sp. (Malastomataceae). Isolated compounds: 17857.
- T4217 *Microcos paniculata* [Syn. *Grewia microcos*] (Tiliaceae); PO BU YE; Paniculate Microcos. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, fortify stomach and disperse stagnation. TCM Indications: Common cold with fever, jaundice, inappetence, indigestion, distending pain in stomach duct and abdomen, diarrhea, sores, centipede bite. Isolated compounds: 14284.
- T4218 *Microglossa pyrifolia* (Asteraceae); XIAO SHE JU GEN; Pearleaf Microglossa Root. Isolated compounds: 149, 212, 270, 416, 417, 418, 419, 10057, 10813, 14117, 14118, 14119.
- T4219 *Microlepis marginata* (Dennstaedtiaceae); BIAN YUAN LIN GAI JUE; Marginate Microlepis. Used part: tender leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and quicken network vessels. TCM Indications: Swollen sore of welling abscess and boil, wind-damp impediment pain, knocks and falls. Isolated compounds: 468, 469, 7999, 8000, 8001, 13561, 13562, 14838, 18698.
- T4220 *Microlepis strigosa* [Syn. *Trichomanes strigosa*] (Dennstaedtiaceae); CU MAO LIN GAI JUE; Strigose Microlepis. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp. TCM Indications: Enteritis, influenza. Isolated compounds: 18098, 18142, 18150.
- T4221 *Micromelum falcatum* (Rutaceae); XIAO GAN; Falcate Micromelum. Used part: root or leaf. TCM Effects: To quicken blood and move *qi*, dissipate stasis and relieve pain. TCM Indications: Chest impediment, painful swelling from knocks and falls, fracture, sprain, wind-damp impediment pain, throat pain, poisonous snake bites. Isolated compounds: 5709, 5710, 5711, 17824, 22937.
- T4222 *Micromelum hirsutum* (Rutaceae); YIN MAO XIAO YUN MU; Hairy Micromelum*. Isolated compounds: 7897, 7907, 12489, 14216, 14217, 14840, 14842.
- T4223 *Micromelum integerrimum* (Rutaceae); XIAO YUN MU; Entire Micromelum. Used part: root, bark and leaf. TCM Effects: To course wind and resolve exterior, warm center and move *qi*, dissipate stasis and disperse swelling. TCM Indications: Influenza, common cold with cough, stomachache, wind-damp impediment pain, painful swelling from knocks and falls, fracture. Isolated compounds: 14839, 19542.
- T4224 *Micromelum minutum* (Rutaceae); JI XIAO XIAO YUN XIANG MU; Minima Micromelum*. Isolated compounds: 5552, 7149, 9998, 10244.
- T4225 *Microsorium punctatum* (Polypodiaceae); XING JUE; Punctated Microsorium*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Strangury, inhibited urination, knocks and falls, dysentery. Isolated compounds: 14152, 14281.
- T4226 *Microtoena prainiana* (Lamiaceae); NAN CHUAN GUAN CHUN HUA; Prain Microtoena. Isolated compounds: 874, 1476, 1485, 4225, 7424, 9458, 11350, 12331, 13137, 13151, 14261, 14847, 14848, 14849, 16498, 19542.
- T4227 *Microula sikkimensis* (Boraginaceae); WEI KONG CAO; Sikkim Microula. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood. Isolated compounds: 9913, 9914.
- T4228 *Mikania cordata* (Asteraceae); JIA ZE LAN; Heartshape Mikania. Isolated compounds: 14850.
- T4229 *Mikania mendocina* (Asteraceae); TAI PING YANG JIA ZE LAN; Pacific Mikania*. Isolated compounds: 18293.
- T4230 *Mikania scandens* (Asteraceae); WEI GAN JU; Climbing Hempweed. Isolated compounds: 5678, 14850.
- T4231 *Milingtonia hortensis* (Bignoniaceae); TONG LUO HAN. Used part:

- bark or leaf. TCM Effects: To dispel wind and relieve itch, transform phlegm and relieve cough, expel roundworm. TCM Indications: Wind papule itching, cough and asthma with abundant phlegm, ascariasis. Isolated compounds: 18614, 18615, 18616, 18617.
- T4232 *Miliusa balansae* (Annonaceae). Isolated compounds: 2471, 3623, 14852, 14853, 16498.
- T4233 *Millettia auriculata* (Fabaceae); ER XING JI XUE TENG; Auriculate Millettia*. Isolated compounds: 2014.
- T4234 *Millettia dielsiana* (Fabaceae); KUN MING JI XUE TENG; Diels Millettia. Used part: rattan. TCM Effects: To supplement blood and stanch bleeding, quicken blood and free network vessels. TCM Indications: Blood vacuity and general weakness, taxation damage and sinew bone pain, menstrual disorder, amenorrhea, postpartum abdominal pain, persistent flow of lochia, wind-damp impediment pain, bleeding, knocks and falls. Isolated compounds: 676, 3004, 10967, 11543, 11696, 14713, 15993, 16804.
- T4235 *Millettia erythrocalyx* (Fabaceae); HONG E JI XUE TENG; Redcalyx Millettia*. Isolated compounds: 3334, 5221, 6242, 13934, 14361, 14363, 14376, 14855, 14856, 14857, 14858, 16274, 17707, 17713.
- T4236 *Millettia griffoniana* (Fabaceae). Isolated compounds: 9007, 9008, 9009.
- T4237 *Millettia laurentii* (Fabaceae). Isolated compounds: 12567, 12568.
- T4238 *Millettia nitida* (Fabaceae); LIANG YE YAN DOU TENG; Shiningleaf Millettia. Used part: rattan. TCM Effects: To supplement blood and quicken blood, soothe channels and quicken network vessels. TCM Indications: Blood vacuity, postpartum vacuity weakness, dizziness, menstrual disorder, wind-damp impediment pain, numbness in limbs. Isolated compounds: 6918.
- T4239 *Millettia nitida* var. *hirsutissima* (Fabaceae); FENG CHENG JI XUE TENG; Hirsute Millettia. Used part: root and lianoid stem. TCM Effects: To supplement blood and quicken blood, soothe sinews and quicken network vessels. TCM Indications: Blood vacuity and general weakness, menstrual disorder [=menoxenia], wind-damp impediment pain, poliomyelitis, knocks and falls. Isolated compounds: 7884, 9554, 9555, 9556.
- T4240 *Millettia pachycarpa* (Fabaceae); KU TAN ZI; Thickfruit Millettia. Used part: seed or fruit. TCM Effects: To attack toxin and relieve pain, disperse accumulation and kill worms. TCM Indications: Scab and lichen, sore *lai*, sand *qi* abdominal pain, child *gan* accumulation. Isolated compounds: 6496, 10680, 13088, 16489, 16490, 16491, 16492, 16493, 18939.
- T4241 *Millettia pervilleana* (Fabaceae). Isolated compounds: 17004, 17005.
- T4242 *Millettia racemosa* (Fabaceae); ZONG ZHUANG JI XUE TENG; Racemose Millettia*. Isolated compounds: 15436.
- T4243 *Millettia reticulata* (Fabaceae); JI XUE TENG GEN; Leatherleaf Millettia Root. Used part: root. TCM Effects: To quiet spirit, calm. TCM Indications: Manic agitation schizophrenia. Isolated compounds: 18939.
- T4244 *Millettia stuhlmannii* (Fabaceae); SI TU JI XUE TENG; Stuhlmann Millettia*. Isolated compounds: 18857.
- T4245 *Millettia thomningii* (Fabaceae). Isolated compounds: 5727, 10466, 14131, 21081, 21336.
- T4246 *Millettia usaramensis* ssp. *usaramensis* (Fabaceae). Isolated compounds: 2148, 4949, 5733, 6971, 8322, 22278, 22279.
- T4247 *Millingtonia hortensis* (Bignoniaceae); ZI MEI SHU; Garden Millingtonia. Used part: bark or leaf. TCM Effects: To dispel wind and relieve itch, resolve toxin and kill worms, suppress cough and transform phlegm. TCM Indications: Eczema, urticaria, ascariasis, cough of phlegm asthma, leptochroa. Isolated compounds: 266, 9564, 19582, 19584.
- T4248 *Mimosa pudica* (Fabaceae); HAN XIU CAO; Sensitive Plant. Used part: whole herb. TCM Effects: To cool blood and resolve toxin, clear heat and disinhibit damp, quiet spirit and calm. TCM Indications: Common cold, infant ardent fever, bronchitis, hepatitis, gastritis, enteritis, conjunctivitis, calculus of urinary system, edema, taxation damage hemoptysis, nosebleed(epistaxis), hematuria, neurasthenia, neurosis, insomnia, toxin swelling of sores, zoster, knocks and falls. Isolated compounds: 14868, 14869, 15708, 22122.
- T4249 *Mimosa* sp. (Fabaceae). Isolated compounds: 6533.
- T4250 *Mimosa tenuiflora* (Fabaceae); XI HUA HAN XIU CAO; Smallflower Mimosa*. Isolated compounds: 20934, 20935, 20936.
- T4251 *Mimulus aurantiacus* (Scrophulariaceae); JU SE GOU SUAN JIANG; Orange Monkeyflower*. Isolated compounds: 2007.
- T4252 *Mirabilis jalapa* (Nyctaginaceae); ZI MO LI GEN; Common Four-o'clock Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Heat strangury, white turbidity, edema, red and white vaginal discharge, swelling pain in joints, swelling toxin of welling abscess and sore, mammary welling abscess, knocks and falls. Isolated compounds: 11018, 13860, 14109, 14498, 14879, 14880, 14881, 14882, 22623.
- T4253 *Mirabilis jalapa* (Nyctaginaceae); ZI MO LI YE; Common Four-o'clock Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and percolate damp, quicken blood. TCM Indications: Welling abscess, boil, scab sore, lichen, wound. Isolated compounds: 21662.
- T4254 *Miscanthus sinensis* (Poaceae); MANG JING; Chinese Silvergrass. Used part: stem. TCM Effects: To dissipate blood, disinhibit urine, resolve heat toxin. TCM Indications: Inhibited urination, animal and insect bites. Isolated compounds: 14884, 18003, 21589.
- T4255 *Mitragyna africana* (Rubiaceae); FEI ZHOU MAO ZHU MU; African Mitragyna*. Isolated compounds: 14108.
- T4256 *Mitragyna inermis* (Rubiaceae); WU CI MAO ZHU MU; Spineless Mitragyna*. Isolated compounds: 11035, 11036, 18826.
- T4257 *Mitragyna macrophylla* (Rubiaceae); DA YE MAO ZHU MU; Abura Mitragyna. Isolated compounds: 14889.
- T4258 *Mitragyna speciosa* (Rubiaceae); MEI LI MAO ZHU MU; Beautiful Mitragyna*. Isolated compounds: 10528, 14886, 16735, 20138, 20139.
- T4259 *Mnium cuspidatum* (Mniaceae); SHUI MU CAO; Cuspidate Mnium Herb. Used part: plant body. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Nosebleed(epistaxis), blood ejection, hematochezia, flooding and spotting. Isolated compounds: 19331. *Moghania philippinensis* = *Flemingia philippinensis*
- T4260 *Moghania philippinensis* (Fabaceae); FEI LV BIN QIAN JIN BA; Philippine Flemingia. Used part: root. TCM Effects: To dispel wind

and eliminate damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, wilting-weakness in limbs, knocks and falls, swelling pain in throat. Isolated compounds: 6305, 21098, 21717, 21718, 21796.

Mollugo lotoides = *Glinus lotoides*

- T4261 *Mollugo pentaphylla* (Aizoaceae); SU MI CAO; Fiveleaf Carpetweed. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin and disperse swelling. TCM Indications: Abdominal pain and diarrhea, dysentery, common cold with cough, summerheat stroke, skin heat papules, red eyes with gall, swelling toxin of sore and boil, poisonous snake bite, burns and scalds. Isolated compounds: 14902, 14903, 14904, 14905.
- T4262 *Mollugo spargula* (Aizoaceae). Isolated compounds: 20142, 20143, 20144, 20145.
- T4263 *Momordica charantia* (Cucurbitaceae); KU GUA; Balsampear. Used part: fruit. TCM Effects: To dispel summerheat, brighten eyes, resolve toxin. TCM Indications: Summerheat-heat vexation and thirst, diabetes mellitus, painful red eyes, dysentery, swelling toxin of sore and welling abscess. Isolated compounds: 1046, 3774, 8078, 13212, 14907, 14908, 19987, 20346, 22466.
- T4264 *Momordica cochinchinensis* (Cucurbitaceae); MU BIE GEN; Cochinina Momordica Root. Used part: tuberoid. TCM Effects: To resolve toxin, disperse distention, relieve pain. TCM Indications: Welling abscess and toxin of clove, innominate toxin swelling, lymphnoditis. Isolated compounds: 2973, 4127.
- T4265 *Momordica cochinchinensis* (Cucurbitaceae); MU BIE ZI; Cochinina Momordica Seed. Used part: ripe seed. TCM Effects: To dissipate binds and disperse swelling, attack toxin and cure sores. TCM Indications: Swollen welling abscess, mammary welling abscess, scrofula, hemorrhoids and fistulas, dry lichen, bald sores. Isolated compounds: 14909, 16050.
- T4266 *Momordica dioica* (Cucurbitaceae); SHAN KU GUA; Mountain Balsampear. Isolated compounds: 8765.
Momordica grosvenorii = *Siraitia grosvenorii*
- T4267 *Monachosorum flagellare* (Monachosoraceae); WEI YE XI ZI JUE; Tail-leaf Monachosorum. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp impediment pain, pain wind. Isolated compounds: 14911, 14912, 14913, 15026, 18098.
- T4268 *Monachosorum henryi* (Monachosoraceae); XI ZI JUE; Henry's Monachosorum. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp bone pain, painful wound from knocks and falls, mounting *qi*. Isolated compounds: 14911, 14912, 14913, 15026.
- T4269 *Monarda didyma* (Lamiaceae); MEI GUO BO HE; Oswegotea. Isolated compounds: 14914.
- T4270 *Monascus kaoliang* GAO LIANG HONG QU; Red Koji; Angkak. Isolated compounds: 14915, 14916.
- T4271 *Mondia whitei* MENG DI TENG. Isolated compounds: 3570.
- T4272 *Monimia* spp. Isolated compounds: 15751.
- T4273 *Monochaetum multiflorum* (Melastomataceae). Isolated compounds: 2286, 8104, 8114, 14921, 15643.
- T4274 *Monostroma nitidum* (Monostromaceae); JIAO MO. Used part: frond. TCM Effects: To clear heat and disinhibit water, transform phlegm and relieve cough. TCM Indications: Laryngitis, cough and abundant phlegm, edema, inhibited urination [=dysuria]. Isolated compounds: 9384.
- T4275 *Monotropa hypopitys* (Pyrolaceae); HUANG SHUI JING LAN; Yellow Bird's-nest. Used part: whole herb or root. TCM Effects: To suppress cough, supplement vacuity. TCM Indications: Spasmodic cough, trachitis, vacuity weakness, inhibited urination. Isolated compounds: 14933.
- T4276 *Monotropa uniflora* (Pyrolaceae); SHUI JING LAN; Indianpipe. Used part: root. TCM Effects: To supplement lung and relieve cough. TCM Indications: Lung vacuity cough. Isolated compounds: 14933.
- T4277 *Montanoa tomentosa* (Asteraceae). Isolated compounds: 23021.
- T4278 *Montrouzieria sphaeroidea* (Clusiaceae). Isolated compounds: 14947, 14948.
- T4279 *Morina chinensis* (Dipsacaceae); YUAN E CI XU DUAN; Chinese Morina. Used part: whole herb or seed. TCM Effects: To dispel wind-damp, supplement liver and kidney, disperse swollen welling abscess. TCM Indications: Wind-damp impediment pain, aching in lumbus and knees, dizziness, frequent urination, swelling and pain of sore and welling abscess. Isolated compounds: 14976, 14977.
- T4280 *Morinda citrifolia* (Rubiaceae); HAI BA JI; Indianmulberry. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, tuberculosis. Isolated compounds: 899, 900, 1360, 1361, 1894, 4716, 6376, 9790, 14972, 14974, 14975, 15734.
- T4281 *Morinda coreia* (Rubiaceae); TAI GUO BA JI; Thailand Indianmulberry*. Isolated compounds: 470, 507, 21923, 22926, 22927, 22928.
- T4282 *Morinda lucida* (Rubiaceae); GUANG ZE BA JI; Lucid Indianmulberry*. Isolated compounds: 14144, 15734.
- T4283 *Morinda officinalis* (Rubiaceae); BA JI TIAN; Medicinal Indianmulberry. Used part: root. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, eliminate wind-damp. TCM Indications: Neurasthenia, impotence and emission, cold pain in abdomen, urinary incontinence, vacuity cold of uterus, wind-cold-damp impediment, aching in lumbus and knees. Isolated compounds: 1893, 5818, 5961, 9791, 10193, 10467, 14933, 14973, 16014, 17247, 19983.
- T4284 *Morinda parvifolia* (Rubiaceae); BAI YAN TENG; Littleleaf Indianmulberry. Used part: whole plant. TCM Effects: To clear heat and relieve cough, harmonize stomach and transform damp, dissipate stasis and relieve pain. TCM Indications: Common cold with cough, pertussis, indigestion, eczema, knocks and falls, taxation damage in lumbar muscle. Isolated compounds: 5522, 10468, 13044.
- T4285 *Morinda tinctoria* (Rubiaceae); RAN SE JI YAN TENG; Dyed Morinda. Isolated compounds: 14974, 15734.
- T4286 *Morinda umbellata* (Rubiaceae); YANG JIAO TENG; Common Indianmulberry. Used part: root or bark. TCM Effects: To dispel wind-damp. TCM Indications: Swelling pain in joints, kidney vacuity lumbago. Isolated compounds: 899, 900, 901, 9792, 10467, 13041, 14002, 14144, 15076, 18224, 18998, 18999, 20369.
- T4287 *Morus alba* (Moraceae); SANG BAI PI; White Mulberry Root-bast.

- Used part: root cortex. TCM Effects: To drain lung and calm asthma, disinherit water and disperse edema. TCM Indications: Lung heat cough asthma, water-rheum collecting lung, distention fullness and rapid asthma, edema, beriberi, inhibited urination. Isolated compounds: 4517, 4518, 6002, 6003, 6004, 6914, 12379, 12380, 12381, 12382, 12383, 12384, 12387, 12388, 12389, 12393, 12394, 14951, 14952, 14965, 14971, 14995, 15038, 15039, 15040, 15045, 15047, 15048, 15049, 15050, 15051, 15812, 16445, 19255, 19256, 19257, 19259, 19260, 19261, 19262, 19263, 19264, 19265, 19266, 19267, 19268, 19269, 19270, 19271, 19542.
- T4288 *Morus alba* (Moraceae); SANG SHI; White Mulberry Fruit. Used part: spicate fruit. TCM Effects: To enrich *yin* and nourish blood, engender liquid, moisten intestines. TCM Indications: Dizzy head and vision due to insufficiency of liver-kidney and blood vacuity essence depletion, aching lumbus and tinnitus, premature graying in beard and hair, insomnia and frequent dreaming, fluid damage and thirst, diabetes mellitus, intestinal dry and constipation. Isolated compounds: 6052, 6053, 6054, 14989, 14990, 14991, 14992, 14993, 14994, 21815, 21816.
- T4289 *Morus alba* (Moraceae); SANG YE; White Mulberry Leaf. Equivalent plant: *Morus mongolica*, *Morus australis*, *Morus cathayana*. Used part: leaf. TCM Effects: To course wind and dissipate heat, clear lung and moisten dryness, clear liver and brighten eyes. TCM Indications: Wind-heat common cold, lung heat dry cough, dizziness and headache, red eyes and clouded vision. Isolated compounds: 617, 844, 846, 1935, 2276, 3040, 3551, 4232, 4337, 5789, 6002, 6003, 6004, 6679, 7521, 7852, 7853, 9021, 9942, 9943, 9944, 9945, 11067, 11085, 11290, 11642, 11754, 12385, 12386, 13098, 13296, 14718, 14953, 14954, 14955, 14956, 14957, 14958, 14959, 14960, 14971, 14995, 15039, 16532, 16884, 18317, 18834, 18918, 19087, 19542, 19545, 19987, 20003, 21662, 22554.
- T4290 *Morus alba* (Moraceae); SANG ZHI; White Mulberry Branch. Used part: young twig. TCM Effects: To dispel wind-damp, disinherit joints, lower blood pressure, disinherit urine. TCM Indications: Hypertension, aching pain in joints, numbness in joints. Isolated compounds: 863, 1764, 3010, 4337, 4517, 4518, 5198, 5475, 5679, 7705, 8052, 13296, 14290, 14971, 14995, 15038, 17841.
- T4291 *Morus australis* (Moraceae); AO DA LI YA SANG; Japanese Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 15038.
- T4292 *Morus bombycis* (Moraceae); CAN SANG; Silk Mulberry*. Isolated compounds: 3453, 12377, 15041.
- T4293 *Morus cathayana* (Moraceae); HUA SANG; Chinese Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 3324, 3325, 15053, 19252, 19255, 19256, 19257, 19258, 19259, 19268, 19270.
- T4294 *Morus insignis* (Moraceae). Isolated compounds: 14984, 14985, 14986, 14987, 14988.
- T4295 *Morus laevigata* (Moraceae); PING HUA SANG; Smooth Mulberry*. Isolated compounds: 13085.
- T4296 *Morus lhou* (Moraceae). Isolated compounds: 847, 15043, 15044, 15052, 15058.
- T4297 *Morus macroura* (Moraceae); NAI SANG; Long-tail Mulberry*. Isolated compounds: 845, 9053, 9054, 9055, 9056, 9057, 9058, 9059, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 12390, 12391, 12392, 15044, 15045.
- T4298 *Morus mongolica* (Moraceae); MENG SANG; Mongolian Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 1956, 12378, 12385, 12386, 14995, 15038, 15040, 15042, 15046, 15054, 15055, 15056, 15057, 19253, 19254, 19262, 19272.
- T4299 *Morus serrata* (Moraceae); JU CHI SANG; Serrate Mulberry*. Isolated compounds: 14971.
- T4300 *Morus* sp. (Moraceae). Isolated compounds: 2018, 3010, 3011, 4234, 4343, 5700, 8053, 8614, 11894, 13851, 14983, 18919, 19265, 20003.
- T4301 *Morus* spp. (Moraceae). Isolated compounds: 16445.
- T4302 *Morus tinctoria* (Moraceae); RAN SE SANG; Tinctorial Mulberry*. Isolated compounds: 14971.
- T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus* (Cervidae); SHE XIANG; Abelmusk. Used part: dried secretion obtained from musk gland of musk deer. TCM Effects: To open orifices and arouse spirit, quicken blood and dissipate binds, disperse swelling and relieve pain. TCM Indications: Angina pectoris, cerebral thrombosis, vascular migraine, carcinoma, febrile diseases clouded spirit, wind stroke with phlegm reversal, *qi* depression and fulminant reversal, malignity stroke stupor, amenorrhea due to blood stasis, concretion conglomeration accumulation and gathering, sudden pain in heart and abdomen, knocks and falls, wound, impediment pain numbness, malign sore with welling abscess and flat abscess, throat impediment, mouth sore, *gan* of teeth and gum, otitis media. Isolated compounds: 917, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 3578, 3585, 4524, 4537, 4538, 4831, 7383, 7384, 9780, 9781, 9782, 9783, 10532, 10533, 14276, 15127, 15128, 15129, 15130, 15682, 15778, 21022, 22247, 22248.
- T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*] (Lamiaceae); SHI XIANG RU; Chinese Orthodon. Used part: whole herb. TCM Effects: To effuse sweat and resolve summerheat, transform damp and harmonize center, move water and disperse swelling. TCM Indications: Summer externally contracted wind-cold, headache without sweating, pain in stomach duct and abdomen, vomiting and diarrhea, inhibited urination, edema. Isolated compounds: 2550, 3231, 3232, 7521, 9669, 10025, 21360.
- T4305 *Mosla dianthera* (Lamiaceae); DA YE XIANG RU; Twoanther Mosla. Used part: whole herb. TCM Effects: To effuse exterior and dispel summerheat, disinherit damp and harmonize center, stanch bleeding and disperse swelling, dissipate wind and relieve itch. TCM Indications: Wind-cold common cold, *yin* summerheat and headache, nausea, pain in stomach duct, white dysentery, edema, spontaneous external bleeding, bleeding from hemorrhoids, sore and boil, pudendal itch, eczema, bleeding due to external injury, snake or insect bites. Isolated compounds: 2412, 4550, 6193, 6482, 9669, 12843, 20988.
- T4306 *Mosla grosseserrata* (Lamiaceae); JI NING; Largeserrate Mosla. Used part: stem-leaf. TCM Effects: To disinherit water and disperse edema, harmonize stomach and inhibit acid. TCM Indications: Diarrhea and dysentery due to cold *qi*, hyperchlorhydria. Isolated compounds: 2412, 9669.

Mosla punctata = *Mosla scabra*

- T4307 *Mosla scabra* [Syn. *Mosla punctata*] (Lamiaceae); SHI JI NING; Scabrous Mosla. Used part: whole herb. TCM Effects: To course wind and resolve exterior, clear summerheat and eliminate damp, resolve toxin and relieve itch. TCM Indications: Common cold with headache, cough, summerheat stroke, eczema, enteritis, dysentery, bleeding from hemorrhoids, flooding, prickly heat, wind papules, foot lichen, snake or insect bites. Isolated compounds: 1148, 1835, 2849, 9669, 11552, 13391, 15000, 15001, 15926, 21350.
- T4308 *Mucuna birdwoodiana* (Fabaceae); BAI HUA YOU MA TENG; Whiteflower Mucuna. Used part: rattan. TCM Effects: To supplement blood and quicken blood, free channels and quicken network vessels. TCM Indications: blood vacuity, septicemia, menstrual disorder, numbness and paralysis, aching in lumbus and legs. Isolated compounds: 6558, 7788.
- T4309 *Mucuna cochinchinensis* (Fabaceae); MAO DOU; Cochinchina Mucuna*. Isolated compounds: 6558.
- T4310 *Mucuna pruriens* (Fabaceae); CI YANG LI DOU; Cowage Velvet-bean. Isolated compounds: 3169, 3170, 6418, 6420, 10818, 19760.
- T4311 *Mucuna sempervirens* (Fabaceae); CHANG CHUN YOU MA TENG; Evergreen Mucuna. Used part: stem. TCM Effects: To quicken blood and regulate menstruation, supplement blood and soothe sinews. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum anemia, blood vacuity, wind-damp impediment pain, numbness in limbs, knocks and falls. Isolated compounds: 6558.
- T4312 *Muehlenbeckia* spp. (Polygonaceae). Isolated compounds: 3615.
- T4313 *Mulinum spinosum* (Lamiaceae); DUO CI LUO CAO; Argentin *Mulinum spinosum*. Isolated compounds: 15060, 15061.
Munchausia speciosa = *Lagerstroemia speciosa*
- T4314 *Muntingia calabura* YA MAI JIA YING TAO; Jamaica Cherry*. Isolated compounds: 1401, 1406, 1407, 1414, 1419, 11504, 16864, 21918.
- T4315 *Muricella sinensis* (Gorgonidae); ZHONG HUA XIAO JIAN LIU SHAN HU; Gorgonian *Muricella sinensis*. Isolated compounds: 2975.
- T4316 *Murraya cremulata* (Rutaceae); TAI WAN JIU LI XIANG; Taiwan Common Jasminorange. Isolated compounds: 15117.
- T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*] (Rutaceae); DOU YE JIU LI XIANG; Euchretaleaf Common Jasminorange. Used part: branch-leaf. TCM Effects: To course wind and resolve exterior, quicken blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Common cold, cough, headache, knocks and falls, wind-damp bone pain. Isolated compounds: 13397, 13398, 15117, 15118.
- T4318 *Murraya exotica* (Rutaceae); ZHONG HUA JIU LI XIANG; Chinese Common Jasminorange. Isolated compounds: 2485, 13398, 14824, 14825, 15105, 16260.
- T4319 *Murraya koenigii* (Rutaceae); YIN DU JIU LI XIANG; Indian Common Jasminorange. Isolated compounds: 2480, 8456, 9419, 10104, 11520, 11690, 12247, 12248, 12249, 12250, 13398, 13399, 15113, 15118, 15119, 16442.
- T4320 *Murraya kwangsiensis* (Rutaceae); GUANG XI JIU LI XIANG; Kwangsi Jasminorange. Used part: branch-leaf. TCM Effects: To course wind and resolve exterior, quicken blood and disperse swelling. TCM Indications: Common cold, measles papules, knocks and falls, keratitis, fracture. Isolated compounds: 12396.
- T4321 *Murraya microphylla* (Rutaceae); NEN YE JIU LI XIANG; Juvenileleaf Common Jasminorange. Isolated compounds: 8456.
- T4322 *Murraya omphalocarpa* (Rutaceae); QI GUO JIU LI XIANG; Omphalo-fruit Common Jasminorange*. Isolated compounds: 6266, 15103, 15104, 15107, 15120, 16094, 16095.
- T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*] (Rutaceae); JIU LI XIANG; Common Jasminorange. Equivalent plant: *Murraya paniculata* var. *exotica*. Used part: leaf and branchlet. TCM Effects: To move *qi* and quicken blood, dissipate stasis and relieve pain, resolve toxin and disperse swelling, anesthetize and settle pain. TCM Indications: Pain in stomach duct, wind-damp impediment pain, painful swelling from knocks and falls, sore and welling abscess, snake or insect bites, local anesthesia. Isolated compounds: 570, 859, 1763, 2137, 2354, 2355, 3194, 3241, 3242, 3768, 4193, 4515, 5057, 5089, 5556, 6265, 6266, 7521, 7696, 7697, 8312, 9193, 9403, 9404, 9405, 9406, 9509, 9511, 10928, 11001, 11534, 11536, 12843, 13397, 13781, 13930, 14142, 14718, 14718, 14825, 14841, 15100, 15101, 15102, 15104, 15108, 15109, 15110, 15118, 15121, 15122, 15707, 15935, 16259, 16261, 16605, 16606, 16615, 16617, 16930, 16935, 17051, 17376, 17377, 18190, 19542, 19545, 19694, 19929, 20002, 22615, 22937.
- T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*] (Rutaceae); JIU LI XIANG GEN; Common Jasminorange Root. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, free network vessels and dissipate stasis. TCM Indications: Wind-damp impediment pain, cold pain in lumbus and knees, pain wind, knocks and falls, painful swollen testes, eczema, scab and lichen. Isolated compounds: 10162, 16612, 16613, 16614, 16871, 22937.
- T4325 *Murraya paniculata* var. *exotica* (Rutaceae); XIAO YE JIU LI XIANG; Littleleaf Common Jasminorange. Used part: leaf and branchlet. TCM Effects: See *Murraya paniculata*. TCM Indications: See *Murraya paniculata*. Isolated compounds: 11520, 11549, 11550, 13397, 13398, 13399, 13780, 13781, 13923, 13958, 13996, 14824, 14874, 15100, 15106, 15111, 15112, 16969, 16975.
- T4326 *Murraya paniculata* var. *omphalocarpa* (Rutaceae); QI GUO QIAN LI XIANG; Omphalo-fruit Jasminorange*. Isolated compounds: 14825, 16096.
- T4327 *Murraya siamensis* (Rutaceae); YUAN DONG JIU LI XIANG; Siamense Common Jasminorange. Isolated compounds: 3937, 5796, 8324, 8456, 10126, 13846, 15114, 15115, 15116, 15118.
- T4328 *Murraya* spp. (Rutaceae). Isolated compounds: 17051.
- T4329 *Musa acuminata* (Musaceae); XIAO GUO YE JIAO; Acuminate Banana. Isolated compounds: 6823, 6866, 6924, 8099, 17897, 21837.
- T4330 *Musa paradisiaca* (Musaceae); FEN BA JIAO; Plantain Banana. Isolated compounds: 19198.
- T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*] (Musaceae); XIANG JIAO; Common Banana. Used part: fruit. TCM Effects: To clear heat, moisten lung, lubricate intestines, resolve toxin. TCM Indications: Febrile diseases with vexation and thirst, lung heat dry cough, constipation, hemorrhoids. Isolated compounds: 653, 6559, 9568, 15708, 19760.

Musa sapientum = *Musa paradisiaca* var. *sapientum*

- T4332 *Musa x paradisiaca* cultivar (Musaceae); FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG; Plantain Banana Cultivariety*. Isolated compounds: 1393, 1434, 1435, 2468.
- T4333 *Muscari paradoxum* (Liliaceae); QI YI PU TAO FENG XIN ZI; Paradoxy Grape-hyacinth*. Isolated compounds: 1507, 1508, 7130, 7131, 7132, 7138, 7139, 7140, 12481, 13058, 13059, 13060, 19521, 19522, 19523.
- T4334 *Mussaenda hirsutissim* (Rubiaceae); YU YE JIN HUA; Mussaenda*. Isolated compounds: 3432.
- T4335 *Mussaenda pubescens* (Rubiaceae); SHAN GAN CAO; Buddha's Lamp. Used part: stem-leaf. TCM Effects: To resolve exterior, clear summerheat, disinhibit damp, resolve toxin, quicken blood. TCM Indications: Common cold, summerheat stroke, fever, cough, swelling pain in throat, summerheat-damp diarrhea, dysentery, swelling and pus of sores, knocks and falls, snake bite. Isolated compounds: 1736, 20369.
- T4336 *Mycena dendrobii* (Tricholomataceae); SHI HU XIAO GU; Dendrob Mycena. Isolated compounds: 7093.
- T4337 *Mycobacterium phlei*. Isolated compounds: 17263.
- T4338 *Mylabris phalerata*; *Mylabris cichorii* (Meloidae); BAN MAO; Blister Beetle. Used part: dried body. TCM Effects: To break blood and disperse concretion, attack toxin and cure sores. TCM Indications: Concretion and conglomeration, intractable lichen, scrofula, wart, non-opened welling abscess and flat abscess, malign sore. Isolated compounds: 1050, 1051, 3094, 6341.
- T4339 *Mylia nuda* (Jungermanniaceae); LUO XIAO E TAI. Isolated compounds: 1755, 1756, 1757, 6840, 9039, 9040, 15143, 15144, 20886, 20887, 20888, 20889, 20890.
- T4340 *Mylia taylorii* (Jungermanniaceae); XIAO E TAI. Isolated compounds: 1755, 1756, 1757, 6840, 9039, 9040, 15143, 15144, 20886, 20887, 20888, 20889, 20890.
- T4341 *Myoporum* sp. (Myoporaceae). Isolated compounds: 11143.
- T4342 *Myrica arborea* (Myricaceae); QIAO MU ZHUANG YANG MEI; Arboreous Bayberry*. Isolated compounds: 15167, 22837.
- T4343 *Myrica esculent* (Myricaceae); MAO YANG MEI; Hairy Bayberry. Used part: bark. TCM Effects: To astringe intestines and check diarrhea, stanch bleeding, relieve pain. TCM Indications: Diarrhea, dysentery, flooding and spotting, stomachache. Isolated compounds: 6923.
- T4344 *Myrica gale* (Myricaceae); XIANG YANG MEI; Bog-myrtle. Isolated compounds: 11966, 15187.
- T4345 *Myrica multiflora* (Myricaceae); DUO HUA YANG MEI; Manyflower Bayberry*. Isolated compounds: 15147, 15148, 15149, 15150, 15151.
- T4346 *Myrica nagi* [Syn. *Podocarpus nagi*] (Podocarpaceae); ZHU BAI; Nagai Podocarpus. Used part: leaf. TCM Effects: To stanch bleeding and joint bones. TCM Indications: Bleeding due to external injury, fracture. Isolated compounds: 6853, 15170, 15229, 15230, 15231, 15232, 22615.
- T4347 *Myrica nagi* [Syn. *Podocarpus nagi*] (Podocarpaceae); ZHU BAI GEN; Nagai Podocarpus Root. Used part: root or bark. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp impediment pain. Isolated compounds: 15235, 15236, 15237, 21474.
- T4348 *Myrica rubra* (Myricaceae); YANG MEI; Chinese Waxmyrtle. Used part: fruit. TCM Effects: To engender liquid and allay thirst, harmonize stomach and disperse food. TCM Indications: Vexation and thirst, vomiting and diarrhea, dysentery, abdominal pain. Isolated compounds: 1110, 1113, 11085, 13098, 15170, 15184.
- T4349 *Myrica rubra* (Myricaceae); YANG MEI SHU PI; Chinese Waxmyrtle Bark. Used part: bark. TCM Effects: To rectify *qi* and dissipate stasis, eliminate damp, relieve pain. TCM Indications: Dysentery, knocks and falls, eye screen, toothache, burns and scalds, malign scab and *lai* sore. Isolated compounds: 530, 984, 3084, 6059, 6251, 6921, 8095, 10129, 15154, 15155, 15156, 15157, 15158, 15159, 15160, 15161, 15162, 15163, 15164, 15165, 15166, 15168, 15170, 15184, 17900, 18411, 18413, 18818, 19983, 20711, 22270, 22272.
- T4350 *Myriopterion extensum* (Asclepiadaceae); CHI GUO TENG; Extended Wingfruitvine. Used part: whole herb. TCM Effects: To boost lung and relieve cough. TCM Indications: Phthisis, cough. Isolated compounds: 7698, 7699.
- T4351 *Myristica fragrans* (Myristicaceae); ROU DOU KOU; Common Nutmeg. Used part: kernel. TCM Effects: To warm center and move *qi*, astringe intestines and check diarrhea. TCM Indications: Spleen-stomach vacuity cold, incessant chronic diarrhea, distending pain in stomach duct, reduced food intake with vomiting. Isolated compounds: 2559, 7521, 7523, 7933, 11408, 11421, 12749, 12750, 14531, 15203, 15204, 17376, 17453, 19121, 21980.
- T4352 *Myristica malabarica* (Myristicaceae); MENG MAI ROU DOU KOU; Bombay Nutmeg*. Isolated compounds: 2384, 5822, 6243, 10447, 18001.
- T4353 *Myristica otoba* (Myristicaceae); AO TUO ROU DOU KOU; Otoba Nutmeg*. Isolated compounds: 16267.
- T4354 *Myristica simiarum* (Myristicaceae); FEI LV BIN ROU DOU KOU; Antao Nutmeg. Isolated compounds: 16267.
Myristica surinamensis = *Virola surinamensis*
- T4355 *Myrothecium roridum*. Isolated compounds: 21559.
- T4356 *Myrothecium* sp. Isolated compounds: 4520, 15206, 15207, 16897, 21558.
- T4357 *Myrothecium verrucaria*. Isolated compounds: 22420.
- T4358 *Myroxylon pereirae* (Fabaceae); BI LU XIANG JIAO; Peru Balmtree Resin. Used part: balsam. TCM Effects: To relieve cough and dispel phlegm, resolve toxin and kill worms. TCM Indications: Scab sore, copper coin lichen. Isolated compounds: 2280, 2282, 3695, 15500, 15500.
- T4359 *Myroxylon* spp. (Fabaceae). Isolated compounds: 3004, 12908.
- T4360 *Myrrhis odorata* (Apiaceae); OU ZHOU MO YAO; Sweet Cicely. Isolated compounds: 17028.
- T4361 *Myrsine africana* (Myrsinaceae); TIE ZI; African Myrsine. Used part: root or herb. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit damp, promote contraction and stanch bleeding. TCM Indications: Wind-damp impediment pain, toothache, diarrhea, dysentery, flooding, hematochezia, tuberculosis and hemoptysis. Isolated compounds: 6767, 6776, 14140, 14809, 15782, 17858, 18410.
- T4362 *Myrsine capitellata* (Myrsinaceae); XIAO TOU TIE ZI; Capitellate Myrsine*. Isolated compounds: 6767.
- T4363 *Myrsine seguinii* (Myrsinaceae). Isolated compounds: 15210, 15211,

15212, 15213, 15214, 19670, 19671, 19672, 19673, 19674.

- T4364 *Myrsine semiserrata* (Myrsinaceae); CHI YE TIE ZI; Serrate-leaf Myrsine. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Taeniasis. Isolated compounds: 6767.
- T4365 *Myrsine* sp. (Myrsinaceae). Isolated compounds: 18546.
Myrtus cumini = *Eugenia jambolana*
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- T4366 *Naematoloma fasciculare* (Strophariaceae); CU SHENG HUANG REN SAN; Sulfur Tuft. Used part: sporocarp. TCM Effects: Anticarcinoma. Isolated compounds: 7737, 7738.
- T4367 *Naematoloma sublateritium* (Strophariaceae); ZHUAN HONG REN SAN; Brick Tops. Used part: sporocarp. TCM Effects: Anticarcinoma. Isolated compounds: 20441, 20442, 20443.
- T4368 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU GEN; Common Nandina Root. Used part: root. TCM Effects: To clear heat, relieve cough, eliminate damp, resolve toxin. TCM Indications: Lung heat cough, damp-heat jaundice, diarrhea, wind-damp impediment pain, sore, scrofula. Isolated compounds: 6552, 14332, 15243, 15245.
- T4369 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU GENG; Common Nandina Stem. Used part: branchlet. TCM Effects: To clear damp heat, downbear counterflow *qi*. TCM Indications: Damp-heat jaundice, diarrhea, heat strangury, red eyes with gall, cough and asthma, *ge* syndrome. Isolated compounds: 6552, 14332, 15243, 15779, 21252.
- T4370 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU YE; Common Nandina Leaf. Used part: leaf. TCM Effects: To clear heat and disinherit damp, drain fire, resolve toxin. TCM Indications: Lung heat cough, pertussis, heat strangury, hematuria, red eyes with gall, sore and welling abscess, scrofula. Isolated compounds: 6835, 15244, 15247, 15248.
- T4371 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU ZI; Common Nandina Fruit. Used part: ripe fruit. TCM Effects: To constrain lung and relieve cough, calm asthma. TCM Indications: Enduring cough, asthma, pertussis. Isolated compounds: 2978, 6552, 8756, 11344, 13716, 14332, 15245, 15779, 17983.
- T4372 *Nannoglottis ravida* (Asteraceae); QIAN HUI MAO GUAN JU; Greyish Nannoglottis*. Isolated compounds: 18559, 18560.
- T4373 *Narcissus angustifolius* (Amaryllidaceae); WU KE LAN XIA YE SHUI XIAN; Ukrainian Narrowleaf Narcissus*. Isolated compounds: 15246.
- T4374 *Narcissus bujei* (Amaryllidaceae); YI BI LI YA SHUI XIAN; Iberian Narcissus*. Isolated compounds: 406, 2733.
- T4375 *Narcissus leonensis* (Amaryllidaceae); SAI LA LI ANG SHUI XIAN. Isolated compounds: 15750.
- T4376 *Narcissus nivalis* (Amaryllidaceae); XUE SHENG SHUI XIAN. Isolated compounds: 15750.
- T4377 *Narcissus papyraceus* (Amaryllidaceae); BAI SHUI XIAN; Paper-white Narcissus. Isolated compounds: 8083, 13236.
- T4378 *Narcissus poeticus* (Amaryllidaceae); HONG KOU SHUI XIAN; Poets Narcissus. Isolated compounds: 9612, 17479.
- T4379 *Narcissus pseudonarcissus* (Amaryllidaceae); HUANG SHUI XIAN; Daffodil. Isolated compounds: 13239.
- T4380 *Narcissus pseudonarcissus* ssp. *pseudonarcissus* (Amaryllidaceae); JIA SHUI XIAN; False Narcissus*. Isolated compounds: 15750.
- T4381 *Narcissus* sp. (Amaryllidaceae). Isolated compounds: 3693, 7821.
- T4382 *Narcissus* spp. (Amaryllidaceae). Isolated compounds: 17573.
- T4383 *Narcissus tazetta* (Amaryllidaceae); DUO HUA SHUI XIAN; Polyanthus Narcissus. Isolated compounds: 17850, 20891.
- T4384 *Narcissus tazetta* var. *chinensis* (Amaryllidaceae); SHUI XIAN GEN; Chinese Narcissus Bulb. Used part: bulb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Swelling toxin of sore and welling abscess, insect bites, fish bone stuck in throat. Isolated compounds: 8083, 13236, 13241, 16634, 17850, 18050, 20891.
- T4385 *Narcissus tazetta* var. *chinensis* (Amaryllidaceae); SHUI XIAN HUA; Chinese Narcissus Flower. Used part: flower. TCM Effects: To clear heart and quiet spirit, rectify *qi* and regulate menstruation, resolve toxin and repel foulness. TCM Indications: Fatigued spirit and dizziness, menstrual disorder, dysentery, swelling of sores. Isolated compounds: 2222, 2273, 3696, 3768, 7521, 11025, 13241, 15265, 17111, 17132, 18050.
- T4386 *Nardostachys chinensis* (Valerianaceae); GAN SONG; Chinese Nardostachys. Equivalent plant: *Nardostachys jatamansi*. Used part: root and rhizome. TCM Effects: To rectify *qi* and relieve pain, harmonize stomach and arouse spleen. TCM Indications: Stomachache, distention fullness in chest and abdomen, headache, hysteria, beriberi. Isolated compounds: 1191, 1701, 1704, 1706, 1707, 2943, 2944, 3194, 4815, 7514, 9483, 11553, 11754, 11834, 11835, 12132, 12133, 12134, 12135, 12136, 15264, 15269, 15270, 15271, 15272, 15273, 15274, 15275, 15276, 15277, 16213, 16707, 16711, 21048, 22313.
- T4387 *Nardostachys jatamansi* (Valerianaceae); SHI YE GAN SONG; Spoonleaf Nardostachys. Used part: root and rhizome. TCM Effects: See *Nardostachys chinensis*. TCM Indications: See *Nardostachys chinensis*. Isolated compounds: 11833, 11834, 11835, 13283, 16707, 16711, 19792, 19793.
- T4388 *Nasturtium officinale* (Brassicaceae); DOU BAN CAI; Watercress. Used part: whole herb. TCM Effects: To clear lung, cool blood, resolve toxin, disinherit urine. TCM Indications: Lung heat dry cough, scurvy, infection of urinary system, painful swelling from clove sore, itchy skin. Isolated compounds: 8599, 14760, 14761, 17131.
- T4389 *Nauclea diderrichii* (Rubiaceae); DI SHI WU TAN; Diderrichi Fatheadtree*. Isolated compounds: 3157, 3158, 5272, 5273, 15297, 15300, 15301, 15309, 15314.
- T4390 *Nauclea latifolia* (Rubiaceae); KUAN YE WU TAN; Broadleaf Fatheadtree*. Isolated compounds: 3184, 4840, 5540, 5541, 5542, 6973, 9788, 10733, 13874, 13876, 15292, 15293, 15294, 15295, 15296, 15297, 15305, 15313, 15315, 15316, 20390.
- T4391 *Nauclea officinalis* (Rubiaceae); DAN MU; Medicinal Fatheadtree. Used part: Branch and bark. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Acute tonsillitis, pharyngolaryngitis, mastitis, enteritis, bacillary dysentery, urinary tract infection, cholecystitis, ulcer of lower limb, infection due to foot lichen, swollen boil with pus and ulcer, dermatitis, eczema. Isolated compounds: 15298, 15299, 15302, 15303, 15304, 15306, 15307, 22493.

- T4392 *Nauclea orientalis* (Rubiaceae); DONG FANG WU TAN; Oriental Fatheadtree*. Isolated compounds: 515, 3186, 10733, 15290, 15291, 15310, 15311, 18199, 19983, 19987, 20390, 21923, 22496.
Nauclea pilosa = *Uncaria scandens*
- T4393 *Nauclea pobequini* (Rubiaceae); BO SHI WU TAN; pobequini Fatheadtree*. Isolated compounds: 15308, 15312.
Nauclea rhynchophylla = *Uncaria rhynchophylla*
Nauclea sessilifolia = *Neonauclea sessilifolia*
Nauclea sessilifructus = *Uncaria sessilifructus*
- T4394 *Navicula delognei* f. *elliptica* (Naviculaceae); TUO YUAN ZHOU XING ZAO; Ellipse Navicula*. Isolated compounds: 17272.
- T4395 *Necturus maculosus* (Salamandridae); BAN YUAN; Mudpuppy. Isolated compounds: 19223.
- T4396 *Nelumbo lutea* (Nymphaeaceae); JIN HUANG LIAN; American Lotus. Isolated compounds: 15781.
- T4397 *Nelumbo nucifera* (Nymphaeaceae); HE GENG; Hindu Lotus Petiole. Used part: dried petiole and pedicel. TCM Effects: To dispel summerheat, rectify *qi* and transform damp. TCM Indications: Summerheat-damp and oppression in chest, diarrhea, dysentery, strangury, Vaginal discharge. Isolated compounds: 14148, 18896.
- T4398 *Nelumbo nucifera* (Nymphaeaceae); HE YE; Hindu Lotus Leaf. Used part: leaf. TCM Effects: To clear heat and resolve summerheat, upbear *yang*, cool blood and stanch bleeding. TCM Indications: Summerheat-heat vexation and thirst, summerheat-damp diarrhea, spleen vacuity diarrhea, blood heat, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting. Isolated compounds: 1348, 1738, 8600, 10887, 11642, 12915, 12917, 14148, 14247, 15325, 15664, 15713, 15781, 15856, 17909, 18896.
- T4399 *Nelumbo nucifera* (Nymphaeaceae); HE YE DI; Hindu Lotus Leaf-base. Used part: leaf-base. TCM Effects: To clear summerheat and eliminate damp, dispel stasis and stanch bleeding, quiet fetus. TCM Indications: Summerheat-damp diarrhea, blood dysentery, flooding and spotting, stirring fetus in pregnancy. Isolated compounds: 14148, 15856, 18896.
- T4400 *Nelumbo nucifera* (Nymphaeaceae); LIAN ZI; Hindu Lotus Seed. Used part: seed. TCM Effects: To supplement spleen and check diarrhea, boost kidney and secure essence, nourish heart and quiet spirit. TCM Indications: Chronic diarrhea, inappetence, emission, restlessness, fright palpitation, insomnia, flooding and spotting, excessive leukorrhea. Isolated compounds: 1348, 1738, 3318, 5067, 12798, 12917, 15713, 15781, 15856, 17909.
- T4401 *Nelumbo nucifera* (Nymphaeaceae); LIAN ZI XIN; Hindu Lotus Plumule. Used part: dried plumule and radicle in seed. TCM Effects: To clear heart fire, clear liver fire, stanch bleeding, secure essence. TCM Indications: Heat entering pericardium, clouded spirit with delirious speech, non-interaction of heart and kidney, insomnia and emission, blood ejection due to blood heat, hypertension. Isolated compounds: 8120, 11491, 12798, 13010, 14252, 14253, 14593, 15321, 15856, 17909.
- T4402 *Nelumbo nucifera* (Nymphaeaceae); OU; Hindu Lotus Large Rhizome. Used part: rhizome. TCM Effects: To clear heat and engender liquid, cool blood, stanch bleeding and dissipate stasis. TCM Indications: Febrile diseases with vexation and thirst, blood ejection, spontaneous external bleeding, precipitate blood. Isolated compounds: 11716, 12714.
- T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*] (Spermatocnaceae); HAI YUN. Used part: frond. TCM Effects: To soften hardness and dissipate binds, disperse phlegm and disinhibit water. TCM Indications: Goiter and carcinoma of neck, thyroid enlargement, laryngitis, bronchitis. Isolated compounds: 16656, 22973.
- T4404 *Neoboutonia glabrescens* (Euphorbiaceae). Isolated compounds: 8492, 15346, 15398, 15399.
- T4405 *Neolitsea pulchella* (Lauraceae); MEI LI XIN MU JIANG ZI; Beautiful Newlitse. Isolated compounds: 15431.
- T4406 *Neolitsea sericea* (Lauraceae); ZHOU SHAN XIN MU JIANG ZI; Sericeous Newlitse. Isolated compounds: 2538.
- T4407 *Neolloydia texensis*. Isolated compounds: 15930.
- T4408 *Neonauclea sessilifolia* [Syn. *Nauclea sessilifolia*; *Adina sessilifolia*] (Rubiaceae); WU BING XIN WU TAN; Sessile Neonauclea. Isolated compounds: 8714, 18732.
- T4409 *Nepicrorhiza scrophulariiflora* (Scrophulariaceae). Isolated compounds: 19569, 19570.
- T4410 *Neorautanenia edulis*. Isolated compounds: 10059, 16499.
- T4411 *Neorautanenia pseudopachyrhiza*. Isolated compounds: 16499.
- T4412 *Nepenthes* sp. (Nepenthaceae). Isolated compounds: 9568.
- T4413 *Nepeta cataria* (Lamiaceae); JIA JING JIE; Catnip. Used part: whole herb. TCM Effects: To course wind and clear heat, quicken blood and stanch bleeding. TCM Indications: Externally contracted wind-heat, headache and sore pharynx, non-eruption of measles, blood ejection, spontaneous external bleeding, bleeding due to external injury, painful swelling from knocks and falls, poisonous snake bite. Isolated compounds: 3241, 3242, 5680, 7521, 11378, 11562, 15484, 15485, 15486, 15487, 15488.
- T4414 *Nepeta ciliaris* (Lamiaceae); YUAN MAO JING JIE; Ciliate Catnip. Isolated compounds: 17402.
- T4415 *Nepeta hindostana* (Lamiaceae); YIN DU JIA JING JIE; Indian Catnip*. Isolated compounds: 7556, 9564.
- T4416 *Nepeta leucophylla* (Lamiaceae); BAI YE JING JIE; Whiteleaf Nepeta. Isolated compounds: 3464.
Nepeta tenuifolia = *Schizonepeta tenuifolia*
- T4417 *Nephthea chabroli*; Softcoral *Nephthea chabroli*. Isolated compounds: 14114, 14226, 14227, 14228, 14234, 14300, 14643.
- T4418 *Nerium indicum* (Apocynaceae); JIA ZHU TAO; Sweetscented Oleander. Used part: leaf or bark. TCM Effects: To strengthen heart and disinhibit urine, dispel phlegm and settle asthma, settle pain, dispel stasis. TCM Indications: Congestive cardiac failure, cough and asthma, epilepsy, painful swelling from knocks and falls, amenorrhoea due to blood stasis. Isolated compounds: 400, 655, 4615, 4758, 8460, 15491, 16005, 16006, 16007, 16008, 16009, 20406.
- T4419 *Nerium odorum* (Apocynaceae). Isolated compounds: 15492, 15493.
- T4420 *Nerium oleander* (Apocynaceae); OU ZHOU JIA ZHU TAO; Common Oleander. Isolated compounds: 655, 15491, 15497, 16031.
- T4421 *Neurospora* spp. Isolated compounds: 17264.
- T4422 *Newbouldia laevis* (Bignoniaceae); FEI ZHOU ZI WEI; Africa Trumpetreepeper*. Isolated compounds: 12501, 14429, 14430, 14431,

- 15518, 15519.
- T4423 *Nicandra physaloides* (Solanaceae); JIA SUAN JIANG; Apple of Peru. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel phlegm, calm. TCM Indications: Rabid dog bite, mental disease, epilepsy, wind-damp pain, sore and boil, common cold. Isolated compounds: 10835, 15521, 15522, 20369, 22051, 22701.
- T4424 *Nicotiana acuminata* (Solanaceae); JIAN XING YAN CAO; Acuminate Tobacco*. Isolated compounds: 1124.
- T4425 *Nicotiana glutinosa* (Solanaceae); JIAO YAN CAO; Slimy Tobacco*. Isolated compounds: 8794.
- T4426 *Nicotiana plumbaginifolia* (Solanaceae); HUI YE YAN CAO; Leadwordleaf Tobacco. Isolated compounds: 20064, 20065.
- T4427 *Nicotiana rustica* (Solanaceae); HUANG HUA YAN CAO; Aztec Tobacco. Isolated compounds: 15527.
- T4428 *Nicotiana tabacum* (Solanaceae); YAN CAO; Common Tobacco. Used part: leaf. TCM Effects: To move *qi* and relieve pain, resolve toxin and kill worms. TCM Indications: Food stagnation, *qi* bind pain, swelling abscess and flat abscess, clove sore, scab and lichen, snake bite, dog bite. Isolated compounds: 116, 1124, 1125, 1140, 3145, 4473, 4816, 4963, 6643, 6644, 11754, 15527, 16884, 18849, 19105, 19545, 20070, 20146, 21612, 22058.
- T4429 *Nierembergia hippomanica* (Solanaceae); MA ZHUANG SAI YA MA; Hippomane Cupflower*. Isolated compounds: 16122.
- T4430 *Nigella arvensis* (Ranunculaceae); YE HEI ZHONG CAO; Devil-in-a-bush. Isolated compounds: 4614.
- T4431 *Nigella damascena* (Ranunculaceae); HEI ZHONG CAO; Jackinprison. Isolated compounds: 4614.
- T4432 *Nigella glandulifera* (Ranunculaceae); XIAN MAO HEI ZHONG CAO; Glandular Fennelflower. Used part: seed. TCM Effects: To quicken blood and free menstruation, disinhibit urine and remove stone, supplement kidney and fortify brain. TCM Indications: Menstrual disorder, menstrual block, scant breast milk, edema, urethral stone, dizziness and tinnitus, premature graying in beard and hair, cough and asthma, scab sore, white patch wind. Isolated compounds: 8043, 15562, 15567.
- T4433 *Nigella sativa* (Ranunculaceae); ZAI PEI HEI ZHONG CAO; Cultivated Fennelflower*. Isolated compounds: 15563, 15564, 15565, 15566, 15568, 15569.
- T4434 *Niphogeton ternata* (Apiaceae). Isolated compounds: 196, 3556, 3560, 3561, 3856, 5658, 7707, 7709, 11001, 11462, 11578, 11601, 11834, 16458, 16488, 16597, 19430, 22774.
- T4435 *Nitraria schoberi* (Zygophyllaceae); DONG QIANG; Whitethorn*. Isolated compounds: 15317.
- T4436 *Nitraria tangutorum* (Zygophyllaceae); BAI CI; Nitraria*. Used part: fruit. TCM Effects: To fortify spleen and assisting movement, promote lactation, quiet spirit. TCM Indications: Reduced food intake due to spleen vacuity, indigestion, scant breast milk, neurasthenia. Isolated compounds: 22492.
- T4437 *Nolina recurvata* (Agavaceae); XIA WAN NUO LIN; Recurved Nolina*. Isolated compounds: 15455, 15456.
- T4438 *Nostoc flagelliforme* (Nostocaceae); FA CAI; Hair Vegetable*. Used part: frond. TCM Effects: To supplement blood, disinhibit urine, lower blood pressure, relieve cough and transform phlegm. TCM Indications: Blood vacuity of women, hypertension, cough with profuse phlegm. Isolated compounds: 15227.
- T4439 *Nothapodytes pittosporoides* MA BI MU; Pittosporumlike Nothapodytes. Used part: root cortex. TCM Effects: To dispel wind and disinhibit damp, rectify *qi* and dissipate cold. TCM Indications: Wind-cold-damp impediment, edema, mounting *qi* (hernia). Isolated compounds: 3053.
- T4440 *Nothofagus* sp. (Fagaceae). Isolated compounds: 17420.
- T4441 *Notholaena* sp. (Sinopteridaceae). Isolated compounds: 5969.
- T4442 *Notholaena* spp. (Sinopteridaceae). Isolated compounds: 17617. *Notholirion bulbuliferum* = *Notholirion hyacinthinum*
- T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*] (Liliaceae); JIA BAI HE; Hyacinth False-lily. Used part: small bulb. TCM Effects: To rectify *qi* and harmonize stomach, dispel wind and relieve cough. TCM Indications: Distending pain in stomach duct and abdomen, vomiting, wind-cold cough. Isolated compounds: 2907, 4135, 7424, 7768, 14254, 14499, 20059.
- T4444 *Nothopanax davidii* (Araliaceae); YI YE LIANG WANG CHA; David Falsepanax. Used part: bark. TCM Effects: To dispel wind and dissipate stasis, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, taxation damage and lumbago, knocks and falls, fracture, menstrual disorder. Isolated compounds: 533, 22915, 22916, 22917, 22918, 22919.
- T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*] (Apiaceae); KUAN YE QIANG HUO; Forbes Notopterygium. Used part: rhizome or root. TCM Effects: See *Notopterygium incisum*. TCM Indications: See *Notopterygium incisum*. Isolated compounds: 2308, 3045, 3195, 3237, 3936, 4550, 5080, 9407, 9512, 11462, 12843, 15146, 15645, 15647, 15843, 15973, 17055, 17376, 17377, 19099, 19687, 20990, 20992, 20995. *Notopterygium franchetii* = *Notopterygium forbesii*
- T4446 *Notopterygium incisum* (Apiaceae); QIANG HUO; Incised Notopterygium. Equivalent plant: *Notopterygium forbesii*. Used part: rhizome or root. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, disinhibit joints, relieve pain. TCM Indications: Externally contracted wind-cold, headache without sweating, wind-cold-damp impediment, edema, toxin swelling of sores. Isolated compounds: 336, 934, 1048, 1278, 1279, 1520, 1598, 2310, 2545, 3936, 5080, 6537, 6725, 7466, 7708, 7768, 9044, 9486, 11462, 12800, 12843, 12891, 13571, 14335, 14336, 14485, 14486, 14610, 14629, 14742, 14744, 15203, 15645, 15647, 15843, 15844, 15845, 15926, 15927, 16066, 16257, 16823, 17077, 17376, 17377, 18739, 19983, 20280, 20446, 20990, 20992, 20998, 21349, 21595, 21976, 22332, 22775.
- T4447 *Notoseris rhombiformis* (Asteraceae); LING YE ZI JU; Rhombicleaf Purple-daisy. Isolated compounds: 15846.
- T4448 *Nuphar japonicum* (Nymphaeaceae); RI BEN PING PENG CAO; Japanese Cowlily*. Isolated compounds: 5199, 15868, 15869, 15870, 16836.
- T4449 *Nuphar luteum* (Nymphaeaceae); OU ZHOU PING PENG CAO; European Cowlily. Isolated compounds: 5199, 21333.
- T4450 *Nuphar pumilum* (Nymphaeaceae); PING PENG CAO; Cowlily. Used part: rhizome. TCM Effects: To fortify spleen and boost lung, quicken

blood and regulate menstruation. TCM Indications: Reduced food intake due to spleen vacuity, *yin* vacuity cough, night sweating, blood stasis and dysmenorrhea, menstrual disorder, knocks and falls. Isolated compounds: 15868, 15871, 15872.

T4451 *Nuphar variegatum* (Nymphaeaceae); BAN YE PING PENG CAO; Variegated Cowlily. Isolated compounds: 15869, 15870, 21052.

T4452 *Nuxia sphaerocephala* (Loganiaceae). Isolated compounds: 56, 266, 2914, 2916, 2917, 4181, 6464, 9925, 9926, 10024, 10304, 10305, 10340, 10561, 16050, 16373, 16374, 19987, 20899.

T4453 *Nyctanthes arbor-tristis* (Oleaceae); YE HUA; Nightjasmine. Used part: branch-leaf. TCM Effects: To dispel wind and eliminate damp. Isolated compounds: 4249.

T4454 *Nymphaea caerulea* (Nymphaeaceae); LAN SHUI LIAN; Blue Waterlily. Isolated compounds: 491, 5023, 5024, 15173.

T4455 *Nymphaea lotus* (Nymphaeaceae); CHI YE SHUI LIAN; White Lotus, Egyptian Lotus. Isolated compounds: 15174, 15877, 15878.

T4456 *Nymphoides peltatum* (Gentianaceae); XING CAI; Shield Floatingheart. Used part: whole herb. TCM Effects: To effuse sweat and outthrust papules, disinhibit urine and free strangury, clear heat and resolve toxin. TCM Indications: Non-eruption of measles, edema, inhibited urination, heat strangury, toxin swelling of sores, poisonous snake bite. Isolated compounds: 18327.

T4457 *Nyssa sinensis* (Nyssaceae); ZI SHU; Chinese Tupelo. Used part: root. TCM Effects: Anticarcinoma. Isolated compounds: 15880.

T4458 *Nyssa sylvatica* (Nyssaceae); DUO HUA LAN GUO SHU; Manyflower Tupelo*. Isolated compounds: 2922.

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T4459 Occurs in many fungi. Isolated compounds: 21467.

T4460 Occurs in many human foods. Isolated compounds: 22779.

T4461 Occurs in many plants. Isolated compounds: 530, 580, 663, 1048, 1110, 1113, 1476, 1935, 2309, 2550, 2887, 3004, 3040, 3045, 3241, 3242, 3308, 3498, 3551, 3615, 3695, 4135, 4550, 4680, 5763, 6757, 6776, 6853, 7250, 7521, 7523, 7768, 7788, 7883, 7951, 7996, 8095, 9234, 9486, 9646, 9669, 9818, 10870, 10887, 11031, 11085, 11642, 12018, 12020, 12843, 12891, 12893, 12917, 13098, 13126, 13137, 13374, 14889, 15203, 15279, 16050, 16439, 16555, 16901, 17376, 17869, 17876, 17893, 17905, 18317, 18411, 18643, 18860, 19087, 19540, 19542, 19777, 19912, 19983, 19987, 19993, 20030, 20168, 20280, 20369, 20444, 20446, 20566, 20995, 21415, 22169, 22172, 22195, 22253, 22270, 22336, 22581.

T4462 Occurs in wood. Isolated compounds: 10453.

T4463 *Ochna afzelii* (Ochnaceae). Isolated compounds: 681, 682, 683, 2984, 2985, 5662, 11512, 13000.

T4464 *Ochna calodendron* (Ochnaceae); KA MAI LONG JIN LIAN MU; Cameroon Ochna*. Isolated compounds: 2986, 2987.

T4465 *Ochna integerrima* (Ochnaceae); JIN LIAN MU; Entire Ochna. Isolated compounds: 5683, 5684, 6311.

T4466 *Ochna macrocalyx* (Ochnaceae); CHANG E JIN LIAN MU PI; Macrocalyx Ochna Bark*. Isolated compounds: 2985, 4045, 4985, 5551, 9518, 15916.

T4467 *Ochromonas malhamensis*; Protozoon *Ochromonas malhamensis*. Isolated compounds: 17729.

T4468 *Ochrosia confusa* (Apocynaceae); YI SI MEI GUI SHU; Confusable Ochrosia. Isolated compounds: 15924.

T4469 *Ochrosia elliptica* (Apocynaceae); GU CHENG MEI GUI SHU; Elliptical Ochrosia. Isolated compounds: 6759.

T4470 *Ocimum basilicum* (Lamiaceae); LUO LE; Basil. Used part: whole herb. TCM Effects: To course wind and resolve exterior, transform damp and harmonize center, move *qi* and quicken blood, resolve toxin and disperse swelling. TCM Indications: Common cold with headache, fever and cough, summerheat stroke, non-digestion of food accumulation, no thought of food and drink, distention fullness and pain in stomach duct and abdomen, vomiting and diarrhea, wind-damp impediment pain, emission, menstrual disorder, toothache, bad breath, damp-sore of skin, dormant papules with pruritus, knocks and falls, snake or insect bites. Isolated compounds: 1186, 2357, 3194, 7481, 7521, 7523, 8011, 11642, 13883, 14245, 19121.

T4471 *Ocimum basilicum* (Lamiaceae); LUO LE ZI; Basil Fruit. Used part: fruit. TCM Effects: To clear heat, brighten eyes, eliminate screens. TCM Indications: Red eyes and profuse eye discharge, ingrown eyelash, eye screen, galloping *gan* of teeth and gum. Isolated compounds: 8078, 13509, 17514.

T4472 *Ocimum canum* (Lamiaceae); ZHANG NAO LUO LE; Grey Basil. Isolated compounds: 13264.

T4473 *Ocimum gratissimum* (Lamiaceae); DING XIANG LUO LE; Sweetscented Basil. Isolated compounds: 16928.

T4474 *Ocimum kilimandscharicum* (Lamiaceae); FEI ZHOU LUO LE; African Basil*. Isolated compounds: 20998.

T4475 *Ocimum selloi* (Lamiaceae); SAI LE LUO LE; Sello Basil*. Isolated compounds: 1290.

T4476 *Ocimum* sp. (Lamiaceae). Isolated compounds: 7521.

T4477 *Ocotea bullata* (Lauraceae); NAN FEI ZHANG GUI. Isolated compounds: 11572, 15928, 19871.

T4478 *Octopus vulgaris* (Octopodidae); ZHANG YU; Common Atlantic Octopus. Used part: meat. TCM Effects: To nourish blood and free milk, resolve toxin, engender flesh. TCM Indications: Anemia and amenorrhea, postpartum scant milk, enduring sores. Isolated compounds: 20155.

T4479 *Odontites serotina* (Scrophulariaceae); CHI YE CAO; Lateripening Bartsia. Used part: whole herb. TCM Effects: To clear heat and dry damp, cool blood and relieve pain. TCM Indications: Febrile infectious diseases, depressed liver-gallbladder heat, pain of blood stasis. Isolated compounds: 2004, 15989.

T4480 *Oenanthe crocata* (Apiaceae); ZANG HONG HUA SE SHUI QIN; Hemlock Waterdropwort. Isolated compounds: 9363.

T4481 *Oenanthe javanica* (Apiaceae); QIN HUA; Javan Waterdropwort Flower. Used part: flower. TCM Indications: Spill pulse. Isolated compounds: 16990.

T4482 *Oenanthe javanica* (Apiaceae); SHUI QIN; Javan Waterdropwort. Used part: herb. TCM Effects: To clear heat and disinhibit water. TCM Indications: Fulminant fever with vexation and thirst, jaundice, edema, strangury, vaginal discharge, scrofula, epidemic parotitis. Isolated compounds: 2448, 2793, 5502, 11648, 20998.

T4483 *Oenothera tetraptera* (Onagraceae); SI CHI YUE JIAN CAO; Fourwing Eveningprimrose*. Isolated compounds: 16012.

- T4484 *Ola* sp. (Oleaceae). Isolated compounds: 16025.
Oldenlandia chrysotricha = *Hedyotis chrysotricha*
Oldenlandia corymbosa = *Hedyotis corymbosa*
- T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (Rubiaceae); BAI HUA SHE SHE CAO; Spreading Hedyotis. Equivalent plant: *Hedyotis corymbosa*. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Lung heat cough asthma, swelling pain in throat, intestinal welling abscess, swelling of sores and boils, poisonous snake bite, heat strangury with inhibited pain, edema, dysentery, enteritis, damp-heat jaundice, carcinoma. Isolated compounds: 1894, 4185, 4186, 12046, 13894, 13895, 16050, 16587, 18354, 18355, 18362, 18396, 20369, 22270.
- T4486 *Olea africana* (Oleaceae); FEI ZHOU GAN LAN; African Olive*. Isolated compounds: 16088.
- T4487 *Olea europaea* (Oleaceae); YOU GAN LAN; Common Olive. Used part: fruit. TCM Effects: To moisten intestines and free stool, resolve toxin and close sores, lower blood pressure, lower blood-fat. TCM Indications: Intestinal dry and constipation, burns and scalds, coronary heart disease. Isolated compounds: 3686, 6747, 12488, 13581, 14163, 16050, 16080, 16088, 21413.
- T4488 *Oleandra wallichii* (Oleandraceae); GAO SHAN TIAO JUE; Alpine Oleandra. Isolated compounds: 630, 9642, 15405.
- T4489 *Ongokea gore* (Oleaceae); EN GE MU. Isolated compounds: 6271, 10554, 10555, 16097.
- T4490 *Onobrychis* spp. (Fabaceae). Isolated compounds: 12908.
- T4491 *Onobrychis viciifolia* (Fabaceae); LV DOU; Common Sainfoin. Isolated compounds: 3603, 3608, 3846, 4138, 4182, 4183, 8686, 11504, 11669, 13479, 14257, 14258, 15185, 18391, 19168, 22438.
- T4492 *Onoclea sensibilis* (Aspidiaceae); BEI MEI QIU ZI JUE; Bead Fern, Sensitive Fern. Isolated compounds: 18162.
- T4493 *Ononis spinosa* (Fabaceae); CI MANG BING HUA; Restharrow. Isolated compounds: 7883, 16117, 20901.
- T4494 *Onopordum acanthium* (Asteraceae); DA CHI JI; Scotch Cottonthistle. Used part: whole herb. TCM Effects: To stanch bleeding. Isolated compounds: 7278, 16119.
- T4495 *Onopordum alexandrinum* (Asteraceae); AI JI DA CHI JI; Egyptian Cottonthistle*. Isolated compounds: 16119.
- T4496 *Onopordum algeriense* (Asteraceae); A ER JI ER DA CHI JI; Algerian Cottonthistle*. Isolated compounds: 16119.
- T4497 *Onopordum illyricum* (Asteraceae); YI LI LI YA DA CHI JI; Illyrian Cottonthistle*. Isolated compounds: 16119.
- T4498 *Onosma hispida* (Boraginaceae); CU YING MAO DIAN ZI CAO; Hispid Onosma*. Isolated compounds: 1476, 1492, 2330, 5828, 6159, 7577, 16120, 16121.
- T4499 *Onosma hookeri* (Boraginaceae); XI HUA DIAN ZI CAO; Hooker Onosma. Isolated compounds: 514.
- T4500 *Onosma paniculatum* (Boraginaceae); DIAN ZI CAO; Paniculate Onosma. Used part: root or root cortex. TCM Effects: To clear heat, resolve toxin, cool blood, quicken blood. TCM Indications: Measles papules, pneumonia, febrile diseases macular eruption, ulcerating sores, eczema, scalds. Isolated compounds: 309, 514, 6302, 6303, 10266, 19819.
- T4501 *Onychium auratum* (Sinopteridaceae); *Onychium auratum*. Isolated compounds: 16098, 16697.
- T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*] (Sinopteridaceae); XIAO YE JI WEI; Japanese Clave Fern. Used part: whole herb or leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Wind-heat common cold, cough, sore pharynx, diarrhea, dysentery, dribbling pain of urination, damp-heat jaundice, blood ejection, coughing of blood, hematochezia, bleeding from hemorrhoids, hematuria, sore toxin, knocks and falls, poisonous snake bites, burns and scalds. Isolated compounds: 16122, 16123, 18123, 18148.
- T4503 *Onychium lucidum* (Sinopteridaceae); LI BING JIN FEN JUE; Lucidum Onychium. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, eliminate inflammation. TCM Indications: Common cold, stomachache, wind-damp pain, painful swelling from knocks and falls, bleeding due to external injury, cassava poisoning, arsenic poisoning. Isolated compounds: 13047.
- T4504 *Onychium siliculosum* (Sinopteridaceae); JIN FEN JUE; Siliculose Onychium. Isolated compounds: 16098, 16101, 16102.
- T4505 *Ophiocephalus argus* (Ophiocephalidae); WU LI; Serpent-head. Used part: meat or whole fish. TCM Effects: To supplement spleen and fortify stomach, disinhibit water and disperse edema. TCM Indications: Edema, edema in pregnancy, damp impediment, beriberi, postpartum scant milk, habitual abortion, tuberculosis and vacuity, distention fullness in stomach duct, intestinal wind, bleeding from hemorrhoids, scab and lichen. Isolated compounds: 10660, 14490.
Ophioglossum flexuosum = *Lygodium flexuosum*
- T4506 *Ophioglossum vulgatum* (Ophioglossaceae); PING ER XIAO CAO; Adder's Tongue. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and settle pain. TCM Indications: Lung heat cough, pulmonary welling abscess, tuberculosis with blood ejection, infant ardent fever, red eyes with gall, stomachache, swollen welling abscess and clove sores, painful swelling from knocks and falls. Isolated compounds: 14710.
- T4507 *Ophiopogon japonicus* (Liliaceae); MAI DONG; Liriope. Equivalent plant: *Liriope spicata* var. *prolifera*. Used part: tuberoid. TCM Effects: To nourish *yin* and engender liquid, moisten lung and clear heart. TCM Indications: Angina pectoris, dry cough due to lung dryness, vacuity consumption with cough, fluid damage and thirst, insomnia and vexation, diabetes mellitus due to internal heat, intestinal dry and constipation, diphtheria. Isolated compounds: 618, 875, 876, 2551, 2552, 2554, 4189, 5856, 6440, 7788, 9071, 10033, 10213, 10509, 11577, 11823, 14635, 14636, 16050, 16131, 16135, 16136, 16137, 16138, 16139, 16140, 16141, 16142, 16143, 16144, 16145, 16146, 16147, 16148, 16149, 16150, 16707, 19070, 19072, 19073, 20369, 21720, 21722, 21800, 22252.
- T4508 *Ophiopogon planiscapus* (Liliaceae); BIAN JING YAN JIE CAO; Flatstem Lilyturf*. Isolated compounds: 19070, 19074.
- T4509 *Ophiorrhiza hayata* (Rubiaceae); XIA YE SHE GEN CAO; Hayata Ophiorrhiza. Isolated compounds: 16132, 16133, 16134.
- T4510 *Ophiorrhiza japonica* (Rubiaceae); RI BEN SHE GEN CAO; Japanese Ophiorrhiza. Equivalent plant: *Ophiorrhiza mungos*. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, quicken

- blood and regulate menstruation. TCM Indications: Cough, taxation damage and blood ejection, hematochezia, dysmenorrhea, menstrual disorder, pain in sinews and bones, sprain and contusion. Isolated compounds: 9234, 16151, 16152.
- T4511 *Ophiorrhiza kuroiwai* (Rubiaceae); HEI YAN SHE GEN CAO; Black-rock Ophiorrhiza*. Isolated compounds: 16151, 16152.
- T4512 *Ophiorrhiza liukuensis* (Rubiaceae); LIU QIU SHE GEN CAO; Liuku Ophiorrhiza*. Isolated compounds: 3053, 3551, 4680, 5097, 5205, 5210, 7040, 8758, 9234, 10887, 12949, 12950, 13168, 13863, 13864, 16151, 16152, 18199, 18918, 19542, 19983, 20390, 20503, 20513, 22270.
- T4513 *Ophiorrhiza mungos* (Rubiaceae); SHE GEN CAO; Common Ophiorrhiza. Used part: whole herb. TCM Effects: See *Ophiorrhiza japonica*. TCM Indications: See *Ophiorrhiza japonica*. Isolated compounds: 3053, 13863, 13864.
- T4514 *Ophiorrhiza pumila* (Rubiaceae); DUAN XIAO SHE GEN CAO; Dwarf Ophiorrhiza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold with fever, cough, swelling toxin of welling abscess and flat abscess, poisonous snake bites. Isolated compounds: 18199.
- T4515 *Opilia celtidifolia* (Opiliaceae); PU YE SHAN YOU ZI; Celtis-leaf Opilia*. Isolated compounds: 18229.
- T4516 *Oplopanax elatus* (Araliaceae); DONG BEI CI REN SHEN; Northeast Spineginseng*. Tall Oplopanax. Used part: root. TCM Effects: To supplement *qi* and reinforce *yang*, suppress cough, free network vessels, abate fever. TCM Indications: *Qi* vacuity and general weakness, fatigued spirit and lassitude, impotence, vacuity cough, wind-cold-damp impediment, diabetes mellitus, hypertension. Isolated compounds: 2858, 3737, 3738, 3739, 3740, 4680, 6837, 6981, 8611, 9273, 18739, 20569.
- T4517 *Oplopanax horridus* (Araliaceae); MEI ZHOU CI SHEN; American Spineginseng*[[]Isolated compounds: 15939.
- T4518 *Oppopanax chironium* (Apiaceae); AO PA CAO. Used part: stem and root. TCM Effects: To resolve spasm, dispel phlegm.^[5509] TCM Indications: Spasm, abundant phlegm, menstrual disorder.^[5509] Isolated compounds: 2309, 9419, 11001, 15644, 17028, 22774.
- T4519 *Opuntia dillenii* (Cactaceae); XIAN REN ZHANG; Cholla. Equivalent plant: *Opuntia vulgaris*. Used part: root and stem. TCM Effects: To move *qi* and quicken blood, cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Stomachache, lump glomus, dysentery, throat pain, lung heat cough, tuberculosis and hemoptysis, blood ejection, bleeding from hemorrhoids, sores clove boil, mammary welling abscess, epidemic parotitis, skin lichen, snake or insect bites, scalds, frostbite. Isolated compounds: 5763, 7405, 7432, 7768, 12052, 12062, 13479, 14711, 16157, 16158, 16159, 16160, 18317, 18376, 19087, 22332.
- T4520 *Opuntia ficus-indica* (Cactaceae); LI GUO XIAN REN ZHANG; Prickly Pear. Used part: root and stem. TCM Effects: To clear lung and relieve cough, cool blood and resolve toxin. TCM Indications: Lung heat cough, tuberculosis and hemoptysis, dysentery, bleeding from hemorrhoids, mammary welling abscess, epidemic parotitis, swelling toxin of welling abscess and sore, burns and scalds, bald sores, scab and lichen, snake or insect bites. Isolated compounds: 11018, 17479.
- T4521 *Opuntia vulgaris* (Cactaceae); LV XIAN REN ZHANG; Common Prickly Pear. Used part: root and stem. TCM Effects: See *Opuntia dillenii*. TCM Indications: See *Opuntia dillenii*. Isolated compounds: 11252.
- T4522 *Orchis* sp. (Orchidaceae). Isolated compounds: 16168.
- T4523 *Oriciopsis glaberrima* (Orchidaceae). Isolated compounds: 16179, 16180, 16181, 16182, 21763.
- T4524 *Origanum majorana* (Lamiaceae); TIAN NIU ZHI; Sweet Marjoram. Isolated compounds: 1618, 7521.
- T4525 *Origanum syriacum* (Lamiaceae); XU LI YA NIU ZHI; Syria Origanum*. Isolated compounds: 3233, 10763, 13748, 21363, 21364.
- T4526 *Origanum vulgare* (Lamiaceae); TU XIANG RU; Common Origanum. Used part: whole herb. TCM Effects: To resolve exterior, rectify *qi*, clear summerheat, disinherit damp. TCM Indications: Common cold with fever, summerheat stroke, distention fullness in chest and diaphragm, vomiting diarrhea with abdominal pain, jaundice, edema, vaginal discharge, child *gan* accumulation, measles papules, itchy skin, swelling pain of sores, knocks and falls. Isolated compounds: 3231, 8313, 15286, 21360.
- T4527 *Orixa japonica* (Rutaceae); CHOU SHAN YANG; Japanese Orixa. Used part: root. TCM Effects: To clear heat and resolve exterior, move *qi* and relieve pain, dispel wind and disinherit damp. TCM Indications: Wind-heat common cold, cough, throat pain, toothache, stomachache, pain in joints due to rheumatism, dysentery, innominate toxin swelling. Isolated compounds: 442, 2309, 3236, 7703, 11001, 11234, 11606, 11633, 11821, 12253, 12254, 14153, 14446, 15785, 16199, 16200, 16201, 16202, 16203, 16204, 16447, 17844, 17849, 20002.
- T4528 *Orixa* sp. (Rutaceae). Isolated compounds: 12254.
- T4529 *Ormosia dasycarpa* (Fabaceae). Isolated compounds: 16207.
- T4530 *Ormosia hosiei* (Fabaceae); HONG DOU; Hosie Ormosia. Used part: seed. TCM Effects: To rectify *qi* and quicken blood, clear heat and resolve toxin. TCM Indications: Mounting *qi*, *qi* pain in heart and stomach, amenorrhea due to blood stasis, innominate toxin swelling, clove sore. Isolated compounds: 14749, 16206.
- T4531 *Ormosia jamaicensis* (Fabaceae). Isolated compounds: 16207.
- T4532 *Ormosia panamensis* (Fabaceae). Isolated compounds: 16207.
- T4533 *Ormosia* spp. (Fabaceae). Isolated compounds: 16585.
- T4534 *Ornithogalum caudatum* (Liliaceae); HU YAN WAN NIAN QING; Whiplash Star-of-Bethlehem. Isolated compounds: 3328, 14437, 14438, 14439.
- T4535 *Ornithogalum saundersiae* (Liliaceae). Isolated compounds: 3576, 3577, 3580, 3581, 3582, 3583, 5899, 5900, 16265, 19408, 19409, 19410, 19411, 19412, 19413.
- T4536 *Orobanche coerulescens* (Orobanchaceae); LIE DANG; Skyblue Broomrape. Used part: whole plant. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, moisten intestines. TCM Indications: Kidney vacuity impotence, emission, infertility due to uterus cold, rachitis in children, cold pain in lumbus and knees, weakness in sinews and bones, intestinal dry and constipation. Isolated compounds: 580, 2859, 4225, 11195, 14261, 16208.
- Orontium japonicum* = *Rohdea japonica*

- T4537 *Oroxylum indicum* (Bignoniaceae); MU HU DIE; Indian Trumpetflower. Used part: seed. TCM Effects: To clear lung and disinhibit throat, course liver and harmonize stomach. TCM Indications: Lung heat cough, throat impediment, aphonia, liver stomach *qi* pain. Isolated compounds: 967, 2102, 2103, 2104, 2106, 3600, 16215, 18001, 19582, 19587, 21212.
- T4538 *Oroxylum indicum* (Bignoniaceae); MU HU DIE SHU PI; Indian Trumpetflower Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, abate jaundice, disinhibit throat and disperse swelling. TCM Indications: Infective hepatitis, swelling pain in throat. Isolated compounds: 2106, 16216, 19582, 19585.
Orthodon chinensis = *Mosla chinensis*
- T4539 *Orthodon formosanus* (Lamiaceae); TAI WAN JI NING; Taiwan Mosla. Isolated compounds: 6193.
- T4540 *Orthodon hadai* (Lamiaceae); HA DA SHI JI NING; Hada Mosla*. Isolated compounds: 3231.
Orthosiphon aristatus = *Orthosiphon stamineus*
Orthosiphon grandiflorus = *Orthosiphon stamineus*
Orthosiphon spicatus = *Orthosiphon stamineus*
- T4541 *Orthosiphon stamineus* [Syn. *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (Lamiaceae); XIONG RUI ZHUANG ZHI GUAN CAO; Big-flowered Javatea. Isolated compounds: 4759, 4760, 4761, 5137, 7591, 10556, 10619, 12448, 15443, 15444, 15795, 15796, 16221, 16222, 16223, 16224, 16225, 16226, 16227, 16228, 16229, 16230, 16231, 16232, 16233, 16234, 16235, 16236, 16237, 16238, 16239, 16240, 16241, 16242, 16243, 16244, 16872, 19630, 19966, 19967, 19968, 19969, 19970, 20258, 20259, 20260, 20261, 21202.
- T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*] (Lamiaceae); JI JIAO SHEN; Common Javatea. Used part: root. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, kill worms and disperse accumulation. TCM Indications: Wind-damp impediment pain, strangury, edema, knocks and falls, fracture, food accumulation abdominal distention, abdominal pain due to worm accumulation. Isolated compounds: 16220.
- T4543 *Orthosiphonia mexicana*. Isolated compounds: 16245.
- T4544 *Oryza sativa* (Poaceae); DAO CAO; Rice Straw. Used part: stem-leaf. TCM Effects: To loosen center, precipitate *qi*, disperse food, resolve toxin. TCM Indications: Dysphagia-occlusion, stomach reflux, food stagnation, abdominal pain, diarrhea, diabetes mellitus, jaundice, throat impediment, hemorrhoids, scalds. Isolated compounds: 1358, 3162, 4496, 7121, 7154, 7174, 7181, 7185, 7186, 13126, 13127, 15477, 16247, 16248, 17257, 17258, 17259, 17260, 17261, 22520.
- T4545 *Oryza sativa* (Poaceae); JING MI; Rice. Used part: seed. TCM Effects: To supplement *qi* and fortify spleen, eliminate vexation and allay thirst, check dysentery and diarrhea. TCM Indications: Spleen-stomach vacuity, reduced food intake, fatigue hypodynamia, vexation and thirst, diarrhea. Isolated compounds: 1358, 3040, 3199, 3585, 7768, 12802, 13126, 15355, 15458, 15477, 19463, 20237, 20369, 22520.
- T4546 *Oryza sativa* (Poaceae); MI PI KANG; Rice Spermoderm. Used part: spermoderm. TCM Effects: To increase appetite, precipitate *qi*. TCM Indications: Dysphagia-occlusion, beriberi. Isolated compounds: 3041, 3586, 4470, 4475, 5714, 5715, 7768, 14267, 14353, 15867, 19995, 20237, 20376, 22557.
- T4547 *Oryza sativa* cv (Poaceae); HEI SE MI PI KANG; Black Rice Spermoderm*. TCM Effects: To increase appetite, precipitate *qi*. TCM Indications: Dysphagia-occlusion, stomach reflux, leg *qi* [=beriberi]. Isolated compounds: 16246.
- T4548 *Oryza sativa* var. *glutinosa* (Poaceae); NUO DAO; Sticky Rice. Used part: kernel without shell. TCM Effects: To supplement center and boost *qi*, fortify spleen and check diarrhea, reduce urine, constrain sweat, resolve toxin. TCM Indications: Diarrhea due to spleen-stomach vacuity cold, cholera with vomiting of sour matter, diabetes mellitus with profuse urination, spontaneous sweating, variola, hemorrhoids. Isolated compounds: 11032.
- T4549 *Osbeckia chinensis* (Melastomataceae); JIN JIN XIANG; Chinese Osbeckia. Used part: whole herb or root. TCM Effects: To transform phlegm and disinhibit damp, dispel stasis and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Cough, asthma, child *gan* accumulation, diarrhea and dysentery, wind-damp impediment pain, hemoptysis, spontaneous external bleeding, blood ejection, hemochezia, flooding and spotting [=metrorrhagia and metrostaxis], dysmenorrhea, menstrual block, postpartum stasis stagnation abdominal pain, toothache, prolapse of rectum, wound swelling from knocks and falls, poisonous snake bites. Isolated compounds: 16250.
- T4550 *Osmanthus fragrans* (Oleaceae); GUI HUA; Sweet Osmanthus. Used part: flower. TCM Effects: To warm lung and transform rheum, dissipate cold and relieve pain. TCM Indications: Phlegm-rheum cough asthma, cold pain in stomach duct and abdomen, intestinal wind blood dysentery, amenorrhea and dysmenorrhea, cold mounting with abdominal pain, toothache, bad breath. Isolated compounds: 5646, 12853, 15498, 15926.
- T4551 *Osmorhiza aristata* var. *laxa* (Apiaceae); XIANG GEN QIN; Laxleaf Sweetroot. Used part: root. TCM Effects: To dissipate cold and effuse exterior, relieve pain, fortify stomach, brighten eyes. TCM Indications: Wind-cold common cold, vertex headache, generalized pain. Isolated compounds: 945, 1186, 1282, 6209.
- T4552 *Osmunda japonica* (Osmundaceae); ZI QI; Japanese Osmunda Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and stanch bleeding, kill worms. TCM Indications: Influenza, epidemic encephalitis, parotitis, swelling toxin of welling abscess and sore, measles papules, varicella, dysentery, blood ejection, spontaneous external bleeding, hemochezia, flooding and spotting, vaginal discharge, intestinal parasitic disease. Isolated compounds: 6678, 6679, 14506, 16255, 16256, 16658, 17700, 20444.
- T4553 *Osmunda ragalis* (Osmundaceae); OU ZI QI; Flowering Fern. Isolated compounds: 16256.
- T4554 *Ostodes paniculata* (Euphorbiaceae); YUAN ZHUI HUA YE LUN MU; Paniculate Ostodes*. Isolated compounds: 16262.
- T4555 *Ostrea rivularis*; *Ostrea taliemwhanensis*; *Ostrea gigas* (Ostreidae); MU LI ROU; Oyster Meat. Used part: meat. TCM Effects: To nourish blood and quiet spirit, soften hardness and disperse swelling. TCM Indications: Heat vexation and insomnia, disquieted heart spirit, scrofula. Isolated compounds: 8785, 14665, 14666.
- T4556 *Osyris tenuifolia* (Santalaceae); XIAO HUA SHA ZHEN; East African Sandalwood. Isolated compounds: 2409, 12467, 20937, 20938.

- T4557 *Otostegia fruticosa* (Lamiaceae); GUAN MU AO TUO SI TE CAO; Shrubby Otostegia*. Isolated compounds: 16272.
- T4558 *Otostegia integrifolia* (Lamiaceae); QUAN YUAN YE AO TUO SI TE CAO; Integrifolious Otostegia*. Isolated compounds: 2045, 16273, 17845.
- T4559 *Otostegia limbata* (Lamiaceae); YOU YAN AO TUO SI TE CAO; Limbate Otostegia. Isolated compounds: 7835, 12834, 12835.
- T4560 *Ouratea flava* (Ochnaceae); HUANG SAI JIN LIAN MU; Yellow Ouratea*. Isolated compounds: 7822, 7823.
- T4561 *Ouratea hexasperma* (Ochnaceae); LIU ZI SAI JIN LIAN MU; Hexaseed Ouratea*. Isolated compounds: 9518.
- T4562 *Oxalis acetosella* (Oxalidaceae); SHAN ZUO JIANG CAO; Wood-sorrel. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, clear heat and resolve toxin, disinhibit urine and free strangury. TCM Indications: Taxation damage and pain, knocks and falls, leprosy, innominate toxin swelling, scab and lichen, infant mouth sore, burns and scalds, strangury-turbidity, vaginal discharge, urinary stoppage. Isolated compounds: 22122.
- T4563 *Oxalis cernua* (Oxalidaceae). Isolated compounds: 3432.
- T4564 *Oxalis corniculata* [Syn. *Oxalis repens*] (Oxalidaceae); ZUO JIANG CAO; Creeping Oxalis. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, cool blood and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Damp-heat diarrhea, dysentery, jaundice, strangury syndrome, vaginal discharge, blood ejection, spontaneous external bleeding, hematuria, menstrual disorder, knocks and falls, swelling pain in throat, swollen welling abscess and clove sores, erysipelas, eczema, scab and lichen, hemorrhoids, measles papules, burns and scalds, snake or insect bites. Isolated compounds: 16893, 18281, 21413.
Oxalis repens = *Oxalis corniculata*
- T4565 *Oxalis* sp. (Oxalidaceae). Isolated compounds: 16285.
- T4566 *Oxystelma esculentum* var. *alpini* (Asclepiadaceae); BIAN ZHONG JIAN HUI TENG; Edible Oxystelma Variety*. Isolated compounds: 990, 991, 992.
- T4567 *Oxytropis campestris* (Fabaceae); TIAN YE JI DOU; Yellow Oxytropis. Isolated compounds: 23000.
- T4568 *Oxytropis myriophylla* (Fabaceae); DUO YE JI DOU; Leafy Crazyweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and stanch bleeding. TCM Indications: Influenza, swelling pain in throat, swelling toxin of welling abscess and sore, knocks and falls, static blood swelling and distention, various hemorrhage. Isolated compounds: 9275, 15193, 15194, 15195, 15196, 15197, 15198, 15199, 15200, 15201, 16479.
- T4569 *Oyadea verbesinoides*. Isolated compounds: 1216.
- P**
- T4570 *Pachydictyon coriaceum* (Dictyotaceae); HOU WANG ZAO. Isolated compounds: 16495.
- T4571 *Pachypodanthium staudii* (Annonaceae); SI TUO HOU BING HUA. Isolated compounds: 16511.
- T4572 *Pachyrhizus erosus* (Fabaceae); DI GUA ZI; Wayaka Yambean Seed. Used part: seed. TCM Effects: To kill worms and relieve itch. TCM Indications: Scab and lichen, itchy skin, swollen welling abscess. Isolated compounds: 4954, 6551, 7289, 7290, 10059, 10589, 10680, 10681, 15462, 18939.
- T4573 *Pachyrhizus erosus* (Fabaceae); DOU SHU; Wayaka Yambean. Used part: tuberoid. TCM Effects: To clear lung and engender liquid, disinhibit urine and free milk, resolve liquor toxin. TCM Indications: Lung heat cough, pulmonary welling abscess, summerheat stroke with vexation and thirst, diabetes mellitus, scant breast milk, inhibited urination [=dysuria]. Isolated compounds: 6551, 6632, 10059, 16499, 16500, 18939.
- T4574 *Pachysandra procumbens* (Buxaceae); YANG WO BAN DENG GUO; Prostrate Pachysandra*. Isolated compounds: 6322, 21968.
- T4575 *Pachysandra terminalis* (Buxaceae); XUE SHAN LIN; Japanese Pachysandra. Used part: whole herb with root. TCM Effects: To dispel wind-damp, soothe sinews and quicken blood, free menstruation and check discharge. TCM Indications: Wind-damp-heat impediment, systemma, menstrual disorder, Vaginal discharge. Isolated compounds: 4767, 5461, 6989, 6990, 6991, 6992, 6993, 6994, 6995, 6996, 14650, 16501, 16502, 16503, 16504, 16505, 16506, 16507, 16508, 16509, 16510, 16512, 16513, 20205, 20976.
- T4576 *Paederia chinensis* (Rubiaceae); ZHONG HUA JI SHI TENG; Chinese Fevervine. Isolated compounds: 17089.
- T4577 *Paederia scandens* (Rubiaceae); JI SHI TENG; Fevervine. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, disperse food and transform accumulation, resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Wind-damp pain, diarrhea, dysentery, pain in stomach duct and abdomen, *qi* vacuity edema, heavy head and low food intake, liver spleen enlargement, scrofula, intestinal welling abscess, innominate toxin swelling, knocks and falls. Isolated compounds: 1618, 1892, 4659, 6196, 6197, 7779, 7780, 9740, 16514, 16515, 16516, 16517, 19454.
- T4578 *Paederia scandens* (Rubiaceae); JI SHI TENG GUO; Fevervine Fruit. Used part: fruit. TCM Effects: To resolve toxin and engender flesh. TCM Indications: Poisonous insect stings, frostbite. Isolated compounds: 4814, 9740, 16050.
- T4579 *Paederota lutea*. Isolated compounds: 16518, 20252.
- T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (Ranunculaceae); BAI SHAO; Common Peony. Used part: root. TCM Effects: To calm liver and relieve pain, nourish blood and regulate menstruation, constrain *yin* and check sweating. TCM Indications: Headache and dizziness, pain in rib-side, abdominal pain, spasm in limbs, anemia with yellow complexion, menstrual disorder, profuse menstruation, spontaneous sweating, night sweating. Isolated compounds: 857, 861, 2224, 2266, 3301, 3302, 5249, 7518, 7518, 8095, 8108, 8116, 8117, 9502, 14743, 16455, 16519, 16520, 16521, 16522, 16523, 16524, 16525, 16526, 16527, 16528, 16532, 16539, 16765, 16836, 16836, 16905, 17089, 18255, 18256, 19983, 20389, 20910, 21053, 21641, 21642, 21643.
- T4581 *Paeonia arborea* (Ranunculaceae); QIAO MU SHAO YAO; Arboreous Peony. Isolated compounds: 16533, 16534.
- T4582 *Paeonia delavayi* (Ranunculaceae); DIAN MU DAN; Delavay Peony. Used part: root cortex. TCM Effects: See *Paeonia moutan*. TCM Indications: See *Paeonia moutan*. Isolated compounds: 16525.
- T4583 *Paeonia emodi* (Ranunculaceae); DUO HUA SHAO YAO; Himalayan

- Peony. Isolated compounds: 8095, 9818, 14454, 16529, 16530, 16531.
Paeonia lactiflora = *Paeonia albiflora*
- T4584 *Paeonia lactiflora* wild (Ranunculaceae); CHI SHAO wild; Common Peony (wild). Equivalent plant: *Paeonia obovata*, *Paeonia veitchii*. Used part: root. TCM Effects: To clear heat and cool blood, quicken blood and dispel stasis. TCM Indications: Warm toxin macular eruption, blood ejection, spontaneous external bleeding, intestinal wind bleeding, red eyes with gall, swollen welling abscess and sores, amenorrhea, dysmenorrhea, flooding and vaginal discharge with strangury-turbidity, pain in rib-side due to stagnation, mounting-conglomeration accumulation-gathering, knocks and falls. Isolated compounds: 857, 2224, 4680, 5483, 7518, 12439, 16455, 16524, 16525, 16532, 17378, 19983, 21053.
- T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*] (Ranunculaceae); MU DAN PI; Subshrubby Peony Bark. Equivalent plant: *Paeonia delavayi*. Used part: root cortex. TCM Effects: To clear heat and cool blood, quicken blood and dissipate stasis. TCM Indications: Appendicitis, dysentery, hypertension, allergic rhinitis, warm heat disease with fever, macular eruption, blood ejection, spontaneous external bleeding, steaming bone tidal fever due to *yin* vacuity, amenorrhea due to blood stasis, dysmenorrhea, concretion and conglomeration, swelling toxin of welling abscess and sore, painful wound from knocks and falls, wind-damp-heat impediment. Isolated compounds: 1524, 2263, 2266, 8095, 16455, 16525, 16532, 16533, 16534, 16836, 20451, 20452, 20453, 20454, 20455.
- T4586 *Paeonia obovata* (Ranunculaceae); CAO SHAO YAO; Obovate Peony. Used part: root. TCM Effects: See *Paeonia lactiflora* wild. TCM Indications: See *Paeonia lactiflora* wild. Isolated compounds: 16455, 16525, 16533.
- T4587 *Paeonia officinalis* (Ranunculaceae); YAO YONG MU DAN; Kingsbloom. Isolated compounds: 16525.
- T4588 *Paeonia* sp. (Ranunculaceae). Isolated compounds: 3454.
- T4589 *Paeonia* spp. (Ranunculaceae). Isolated compounds: 16905.
Paeonia suffruticosa = *Paeonia moutan*
- T4590 *Paeonia veitchii* (Ranunculaceae); CHUAN CHI SHAO; Veitch Peony. Used part: root. TCM Effects: See *Paeonia lactiflora* wild. TCM Indications: See *Paeonia lactiflora* wild. Isolated compounds: 16455, 16525, 19986.
- T4591 *Paepalanthus bromelioides* (Eriocaulaceae). Isolated compounds: 16535.
- T4592 *Paepalanthus denudatus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4593 *Paepalanthus hilareii* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4594 *Paepalanthus latipes* (Eriocaulaceae). Isolated compounds: 13902, 18311, 18312, 18313, 18314, 18315.
- T4595 *Paepalanthus polyanthus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4596 *Paepalanthus ramosus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4597 *Paepalanthus robustus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4598 *Paepalanthus vellozioides* (Eriocaulaceae). Isolated compounds: 18311, 18312, 18313, 18314, 18315.
- T4599 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN; Ginseng. Used part: root. TCM Effects: To supplement original *qi* greatly, restore pulse and stem desertion, supplement spleen and boost lung, engender liquid, quiet spirit, lower blood sugar levels. TCM Indications: *Qi* vacuity and verging on desertion, cold limbs and faint pulse, reduced food intake due to spleen vacuity, cough and asthma due to lung vacuity, fluid damage and thirst, diabetes mellitus due to internal heat, enduring illness *qi* vacuity, fright palpitation and insomnia, impotence, uterus cold, cardiac failure. Isolated compounds: 617, 618, 626, 928, 1534, 1608, 1674, 2352, 2395, 2412, 2849, 2851, 2852, 2943, 3040, 3242, 3354, 3522, 3523, 3565, 3589, 3766, 4680, 5178, 5371, 5403, 6360, 6522, 6541, 6720, 6741, 6742, 6743, 7104, 7730, 7852, 7971, 8409, 8410, 8411, 8412, 8413, 8414, 8415, 8416, 8417, 8418, 8419, 8420, 8421, 8422, 8423, 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8432, 8434, 8435, 8436, 8437, 8438, 8439, 8445, 8446, 8447, 8448, 8449, 8450, 8451, 8452, 8453, 8755, 8761, 8906, 9041, 9071, 9088, 9378, 9379, 9485, 9486, 9669, 9670, 11332, 11333, 11334, 11335, 12020, 12891, 13284, 13419, 13441, 13442, 13443, 13444, 13454, 13507, 13508, 13922, 15140, 15368, 15369, 15411, 15528, 15660, 15836, 15839, 15973, 16560, 16582, 16583, 16588, 16589, 16590, 16591, 16592, 16593, 16594, 16595, 16596, 16597, 16599, 16707, 16830, 17981, 17982, 18025, 18230, 18281, 18450, 18526, 18739, 18834, 19187, 19306, 19681, 19686, 19687, 19688, 19983, 19989, 19990, 19991, 20146, 20147, 20369, 20373, 20374, 20375, 20378, 20444, 20446, 20715, 21040, 21610, 21634, 22252, 22554, 22556, 22659, 22843.
- T4600 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN HUA LEI; Ginseng Buds. Used part: bud. TCM Effects: To supplement original *qi* greatly, supplement spleen and boost lung, engender liquid and allay thirst, quiet spirit and boost wits. TCM Indications: *Qi* vacuity and verging on desertion, spleen vacuity and fatigued body, inappetence, vomiting, diarrhea, lung vacuity and shortness of breath, cough, hasty asthma, vacuity and profuse sweating, fluid damage and thirst, diabetes mellitus, insomnia and frequent dreaming, fright palpitation and amnesia, anemia with yellow complexion, kidney vacuity impotence, frequent urination, *qi*-blood fluids vacuity depletion. Isolated compounds: 17982.
- T4601 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN LU; Ginseng Reed. Used part: rhizome. TCM Effects: To upbear *yang* and raise fall. TCM Indications: Spleen vacuity *qi* fall, enduring diarrhea, prolapse of rectum. Isolated compounds: 18277.
- T4602 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN YE; Ginseng Leaf. Used part: leaf. TCM Effects: To clear heat and resolve summerheat, engender liquid and allay thirst. TCM Indications: Summerheat-heat and thirst, febrile diseases fluid damage, stomach *yin* insufficiency, diabetes mellitus, dry cough due to lung dryness, vacuity-fire toothache. Isolated compounds: 8433, 8440, 8441, 8442, 8443, 8444, 16587.
- T4603 *Panax ginseng* x *P. quinquefolium* (Araliaceae); REN SHEN XI YANG SHEN ZA JIAO ZHONG. Isolated compounds: 9375.
- T4604 *Panax japonicus* var. *bipinnatifidus* (Araliaceae); YU YE SAN QI; Bipinnatifid Ginseng. Used part: rhizome. TCM Effects: To stanch

- bleeding and dissipate stasis, disperse swelling and settle pain. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, hematuria, blood dysentery, flooding and spotting, bleeding due to external injury, menstrual disorder, amenorrhea, postpartum blood stasis abdominal pain, painful swelling from knocks and falls, taxation damage and lumbago, chest and rib-side pain, pain in stomach duct, sores. Isolated compounds: 8423, 8425, 13404, 13405.
- T4605 *Panax japonicus* var. *major* (Araliaceae); QIN LING ZHU ZI SHEN; Largeleaf Japanese Ginseng. Used part: rhizome. TCM Effects: To clear heat and nourish *yin*, stanch bleeding and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Febrile diseases with vexation and thirst, lung heat cough due to *yin* vacuity, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, wound swelling from knocks and falls, wind-damp impediment pain, stomachache, menstrual disorder, wind-fire toothache, swelling pain in throat, swelling pain of welling abscess and sore. Isolated compounds: 8427, 13404, 13405, 13407, 13408, 16048.
- Panax notoginseng* = *Panax pseudo-ginseng* var. *notoginseng*
- T4606 *Panax pseudo-ginseng* (Araliaceae); ZANG SAN QI; Tibet Ginseng. Used part: tuberoid. TCM Effects: To transform stasis and stanch bleeding, disperse swelling and settle pain. TCM Indications: Blood ejection, spontaneous external bleeding, blood dysentery, flooding, postpartum persistent flow of lochia, knocks and falls. Isolated compounds: 8816.
- T4607 *Panax pseudo-ginseng* var. *japonicus* (Araliaceae); ZHU JIE SAN QI; Japanese Ginseng. Used part: rhizome. TCM Effects: To supplement vacuity, relieve cough and dispel phlegm, stanch bleeding and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Weakness during convalescence, inappetence, vacuity taxation cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, hematuria, aberratio mensium, flooding and spotting, bleeding due to external injury, concretion and conglomeration, amenorrhea due to blood stasis, postpartum stasis stagnation abdominal pain, knocks and falls, pain in joints due to rheumatism, swollen welling abscess, hemorrhoids, poisonous snake bite. Isolated compounds: 1608, 8423, 8425, 8426, 8427, 8428, 8430, 8445, 8755, 13405, 13443, 15822, 15823, 15824, 15825, 15836, 15839, 15840, 18025, 18026, 22483, 22484, 22485, 22893, 22894, 22895, 22896, 22897, 22898, 22899, 22900, 22901, 22902.
- T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (Araliaceae); SAN QI; Sanchi. Used part: root. TCM Effects: To stanch bleeding and dissipate stasis, disperse swelling and settle pain. TCM Indications: Hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, bleeding due to external injury, angina pectoris, stabbing pain in chest and abdomen, painful swelling from knocks and falls. Isolated compounds: 115, 1058, 2804, 2852, 3242, 4029, 4367, 4463, 4464, 4489, 4500, 4501, 4505, 4506, 4507, 4508, 4509, 4510, 4526, 4527, 4528, 4534, 4577, 4680, 5105, 5416, 6189, 6301, 6319, 6522, 6523, 6534, 6720, 6741, 6742, 6795, 6800, 7469, 7476, 8423, 8424, 8426, 8427, 8428, 8430, 8435, 8605, 8646, 8651, 9041, 9042, 9088, 9359, 9360, 9378, 9485, 9486, 11285, 14484, 14528, 14709, 15140, 15671, 15684, 15818, 15819, 15820, 15821, 15824, 15825, 15826, 15827, 15828, 15829, 15830, 15831, 15832, 15836, 15837, 15838, 15839, 15840, 16594, 16595, 16597, 16598, 16599, 16830, 18317, 18446, 18447, 18448, 18449, 18451, 19233, 19983, 20369, 21040, 21197, 21621, 21628, 22830.
- T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (Araliaceae); SAN QI HUA LEI; Sanchi Buds. Used part: flower. TCM Effects: To clear heat and engender liquid, calm liver and lower blood pressure. TCM Indications: Fluid damage and thirst, aphonia due to throat pain, hypertension. Isolated compounds: 8423, 8424, 8425, 8426, 8427, 9130, 9134, 15821, 15822, 15833, 15834, 15835, 15841, 15842, 16598, 19987, 20367, 20372.
- T4610 *Panax quinquefolium* (Araliaceae); XI YANG SHEN; American Ginseng. Used part: root. TCM Effects: To supplement *qi* and nourish *yin*, clear fire and engender liquid. TCM Indications: *Qi* vacuity, *yin* depletion and effulgent fire, cough and asthma with phlegm-blood, vacuity heat and vexation fatigue, diabetes mellitus due to internal heat, thirst with dry throat. Isolated compounds: 479, 2412, 2943, 3139, 3140, 3242, 4390, 4498, 4672, 6522, 6541, 6795, 7730, 8419, 8423, 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8435, 8445, 8452, 9485, 9486, 11421, 12856, 12891, 13441, 13443, 13444, 14214, 15684, 15977, 16586, 16597, 16619, 16620, 16621, 16850, 17088, 17104, 17105, 17106, 17107, 17108, 17109, 17124, 17128, 17137, 17138, 17139, 17752, 18190, 18445, 18450, 20280, 20446, 21870, 22825.
- T4611 *Panax quinquefolium* (Araliaceae); XI YANG SHEN JING YE; American Ginseng Stem-leaf. Isolated compounds: 4617, 4619, 4620, 4621.
- Panax schinseng* = *Panax ginseng*
Pancovia delavayi = *Sapindus delavayi*
- T4612 *Panacratium biflorum* (Amaryllidaceae); QUAN NENG HUA; Twoflower Panacratium. Isolated compounds: 2369, 17850.
- Panacratium littoralis* = *Hymenocallis littoralis*
- T4613 *Panacratium maritimum* (Amaryllidaceae). Isolated compounds: 22040.
- T4614 *Panda oleosa*. Isolated compounds: 16602.
- T4615 *Pandanus boninensis* (Pandanaceae). Isolated compounds: 14268, 14273.
- T4616 *Pandanus tectorius* (Pandanaceae); LU DOU LE HUA; Thatch Screwpine Flower. Used part: flower. TCM Effects: To clear heat, disinhibit water. TCM Indications: Common cold with cough, strangury-turbidity, inhibited urination, heat diarrhea, mounting *qi*, mouth-level nape sore. Isolated compounds: 6482, 12843, 14672, 17111.
- T4617 *Panellus serotinus* (Tricholomataceae); HOU SHU SHAN GU; Mukitake (in Japanese). Isolated compounds: 6898, 6899, 6900, 9487, 15943.
- T4618 *Panicum miliaceum* (Poaceae); SHU MI; Broomcorn Millet. Used part: seed. TCM Effects: To supplement center and boost *qi*, eliminate vexation and allay thirst, resolve toxin. TCM Indications: Diarrhea and dysentery, vexation and thirst, retching with counterflow, cough, stomachache, goose-mouth sore, sore and welling abscess, scalds. Isolated compounds: 4672, 11503, 14851.

- T4619 *Panulirus* sp. (Palinuridae). Isolated compounds: 3585.
- T4620 *Papaver album* (Papaveraceae); BAI HUA YING SU; White Poppy*. Isolated compounds: 16623.
- T4621 *Papaver alpinum* (Papaveraceae); GAO SHAN YING SU; Alpine Poppy. Isolated compounds: 1094, 16625.
- T4622 *Papaver auranticum* (Papaveraceae); JU HUANG YING SU; Orange Poppy*. Isolated compounds: 1097.
- T4623 *Papaver bracteatum* (Papaveraceae); DA HONG YING SU; Bracteate Poppy*. Isolated compounds: 3885, 4121, 7837, 14251, 15449, 16625.
- T4624 *Papaver caucasicum* (Papaveraceae); GAO JIA SUO YING SU; Caucasian Poppy*. Isolated compounds: 1738, 16625.
- T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*] (Papaveraceae); LI CHUN HUA; Corn Poppy. Used part: whole herb, flower or fruit. TCM Effects: To suppress cough, settle pain, check diarrhea. TCM Indications: Cough, migraine, abdominal pain, dysentery. Isolated compounds: 3498, 5768, 9830, 11344, 11677, 13632, 14981, 15266, 16624, 16625, 16627, 16628, 18816, 18817, 19284, 19908, 21292, 21292.
- T4626 *Papaver dubium* (Papaveraceae); CHANG GUO YING SU; Long-headed Poppy. Isolated compounds: 7980, 16625.
- T4627 *Papaver dubium* var. *glabrum* (Papaveraceae). Isolated compounds: 16446.
- T4628 *Papaver fugax* (Papaveraceae); YI XIAN YING SU; Fugacious Poppy*. Isolated compounds: 7980, 13631.
- T4629 *Papaver nudicaule* (Papaveraceae); YE YING SU; Iceland Poppy. Equivalent plant: *Papaver nudicaule* ssp. *amurense*. Used part: fruit shell or whole herb with flower. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, settle pain. TCM Indications: Enduring cough and asthma, diarrhea, hematochezia, prolapse of rectum, emission, vaginal discharge, headache, stomachache, dysmenorrhea. Isolated compounds: 1098, 1099, 3502, 5283, 16625.
- T4630 *Papaver nudicaule* ssp. *amurense* (Papaveraceae); HEI SHUI YE YING SU; Amur Poppy. Used part: fruit shell or whole herb with flower. TCM Effects: See *Papaver nudicaule*. TCM Indications: See *Papaver nudicaule*. Isolated compounds: 1094, 1097, 1100, 1101, 15079.
- T4631 *Papaver nudicaule* var. *chinense* (Papaveraceae); LIE YE YE YING SU; Splidleaf Poppy*. Used part: fruit shell or whole herb. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, settle pain. TCM Indications: Enduring cough and asthma, enduring diarrhea, enduring dysentery, headache, stomachache, pain in heart and abdomen, wind-damp impediment pain, knocks and falls. Isolated compounds: 1096, 1100, 15861, 15862, 18570.
- T4632 *Papaver orientale* (Papaveraceae); JIN DONG YING SU; Oriental Poppy. Isolated compounds: 7837, 11741, 16625.
- T4633 *Papaver persicum* (Papaveraceae); BO SI YING SU; Persia Poppy. Isolated compounds: 1738, 16625.
- T4634 *Papaver pseudorientale* (Papaveraceae); JIA JIN DONG YING SU; Pseudoriental Poppy*. Isolated compounds: 11741. *Papaver rhoeas* = *Papaver commutatum*
- T4635 *Papaver somniferum* (Papaveraceae); YA PIAN; Opium. Used part: latex from unripe capsules. TCM Effects: To relieve pain, astringe intestines, suppress cough. TCM Indications: Pain in heart and abdomen, chronic diarrhea, chronic dysentery, dry cough without phlegm. Isolated compounds: 3884, 3885, 4050, 4123, 4129, 4290, 4473, 4474, 4503, 4504, 7837, 8523, 8902, 9564, 9709, 11348, 12562, 12563, 13633, 14248, 14291, 14981, 15263, 15266, 15267, 15268, 15449, 15664, 16538, 16623, 16625, 16626, 16627, 16628, 18052, 18654, 18816, 19284, 19566, 19987, 19997, 21292, 22745.
- T4636 *Papaver somniferum* (Papaveraceae); YING SU; Opium Poppy. Used part: seed. TCM Effects: To fortify spleen and promote digestion, clear heat and disinhibit urine. TCM Indications: Stomach reflux, abdominal pain, diarrhea, prolapse of rectum. Isolated compounds: 2887, 3885, 4290, 4473, 7837, 8513, 9349, 9350, 12561, 12563, 14981, 15263, 15266, 15268, 15449, 16430, 16623, 17983, 18655, 19284, 20369, 21292.
- T4637 *Papaver somniferum* (Papaveraceae); YING SU KE; Opium Poppy Pericarp. Used part: capsule. TCM Effects: To constrain lung, astringe intestines, relieve pain. TCM Indications: Enduring cough, chronic diarrhea, prolapse of rectum, pain in stomach duct and abdomen. Isolated compounds: 3885, 4290, 5708, 7334, 11085, 13505, 14981, 15266, 15268, 15793, 16473, 16623, 19284, 19650, 21292.
- T4638 *Papaver* spp. (Papaveraceae). Isolated compounds: 3498, 7002, 16624, 16627, 16628.
- T4639 *Papaver urbanianum* (Papaveraceae). Isolated compounds: 14251.
- T4640 *Parabenzoin trilobum* JIA SHAN HU JIAO. Isolated compounds: 16649.
- T4641 *Parakmeria yunnanensis* (Magnoliaceae); YUN NAN NI DAN XING MU LAN; Yunnan Parakmeria. Isolated compounds: 16651.
- T4642 *Parameria laevigata* (Apocynaceae); CHANG JIE ZHU; Laevigata Parameria. Used part: stem cortex or root cortex. TCM Effects: To supplement kidney and strengthen lumbus, dissipate stasis and relieve pain. TCM Indications: Kidney vacuity lumbago, pain in sinews and bones, knocks and falls, snake bite. Isolated compounds: 666, 3725, 6862, 16654, 16655, 17868.
- T4643 *Pararistolochia flos-avis*. Isolated compounds: 17463.
- T4644 *Parasilurus asotus* NIAN YU. Used part: meat or whole fish. TCM Effects: To enrich *yin* and supplement vacuity, fortify spleen and promote digestion, promote lactation, disinhibit urine. TCM Indications: Vacuity detriment and emaciation weakness, spleen-stomach vacuity, indigestion, postpartum scant milk, edema, inhibited urination [=dysuria]. Isolated compounds: 16656.
- T4645 *Parepigynum funingense* (Apocynaceae); FU NING TENG. Isolated compounds: 8005, 8006, 8007, 8008.
- T4646 *Parinari sprucei* (Chrysobalanaceae). Isolated compounds: 5931, 6042, 6066, 6067, 9504, 10512, 10588, 12179, 16854, 16855, 21135, 21136, 21137, 21755, 21758, 21798, 21801, 21802, 21803, 21804, 21805, 21806, 21807.
- T4647 *Paris fargesii* (Liliaceae); QIU YAO GE CHONG LOU; Farges Paris. Isolated compounds: 6440.
- T4648 *Paris polyphylla* (Liliaceae); ZAO XIU; Manyleaf Paris. Equivalent plant: *Paris polyphylla* var. *chinensis*, *Paris polyphylla* var. *yunnanensis*, *Paris polyphylla* var. *pseudothibetica*, *Paris polyphylla* var. *stenophylla*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, cool liver and settle

- fright. **TCM Indications:** Swelling toxin of welling abscess and sore, throat impediment, mammary welling abscess, snake or insect bites, painful wound from knocks and falls, liver heat and convulsion. **Isolated compounds:** 6437, 6440, 6443, 6446, 6447, 16668, 16669, 16671, 16810, 16811, 16812, 16815, 17654, 17655, 17656, 17657, 17658, 17659, 17781.
- T4649 *Paris polyphylla* var. *chinensis* (Liliaceae); HUA CHONG LOU; China Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 16815.
- T4650 *Paris polyphylla* var. *pseudohibetica* (Liliaceae); CHANG YAO GE CHONG LOU; Tibet Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440.
- T4651 *Paris polyphylla* var. *stenophylla* (Liliaceae); XIA YE CHONG LOU; Narrowleaf Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440.
- T4652 *Paris polyphylla* var. *yunnanensis* (Liliaceae); YUN NAN CHONG LOU; Yunnan Manyleaf Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440, 16813, 16814, 16815, 17783.
- T4653 *Paris* sp. (Liliaceae). **Isolated compounds:** 6440.
- T4654 *Paris* spp. (Liliaceae). **Isolated compounds:** 16809.
- T4655 *Paris tetraphylla* (Liliaceae); WANG SUN; Tetraphyllous Paris. **Used part:** rhizome. **TCM Indications:** Red and white dysentery, impediment, aching pain in limbs. **Isolated compounds:** 16815.
- T4656 *Parmelia saxatilis* (Parmeliaceae); SHI HUA; Parmelia Lichen. **Used part:** lichen. **TCM Effects:** To supplement liver and boost kidney, brighten eyes, stanch bleeding, resolve toxin and disinhibit damp. **TCM Indications:** Blurred vision, pain in lumbus and knees, blood ejection, flooding and spotting, jaundice, scab and lichen. **Isolated compounds:** 1990, 9185, 16673.
- T4657 *Parmelia saxatilis* var. *omphalodes* (Parmeliaceae); QI SHI HUA; Omphalos Parmelia*. **Isolated compounds:** 1990.
- T4658 *Parmelia tinctorum* (Parmeliaceae); MEI YI; Tinctorial Parmelia*. **Used part:** lichen. **TCM Effects:** To boost essence, brighten eyes, cool blood and resolve toxin. **TCM Indications:** Dim vision, flooding and spotting, bleeding due to external injury, sore toxin and intractable lichen. **Isolated compounds:** 11486, 12598, 16169.
- T4659 *Parthenium argentatum* x *P. tomentosum* (Asteraceae); ZA JIAO YIN JIAO JU; Hybrid Parthenium*. **Isolated compounds:** 1668, 1669, 1670, 1671.
- T4660 *Parthenium hysterophorus* (Asteraceae); YIN JIAO JU; Common Parthenium. **Used part:** whole herb. **TCM Indications:** Toxin swelling of sores. **Isolated compounds:** 239, 3482, 4087, 7170, 7171, 7172, 9936, 10916, 10917, 10918, 10919, 16674, 21842.
- T4661 *Parthenium* spp. (Asteraceae). **Isolated compounds:** 16675.
- T4662 *Parthenocissus tricuspidata* (Vitaceae); DI JIN; Japanese Creeper. **Used part:** root and stem. **TCM Effects:** To quicken blood, dispel wind, relieve pain. **TCM Indications:** Postpartum blood stasis, abdominal lump glomus, red and white vaginal discharge, wind-damp pain in sinew and bone, migraine. **Isolated compounds:** 13266, 15986.
- T4663 *Passiflora caerulea* (Passifloraceae); XI FAN LIAN; Passionflower. **Used part:** whole herb. **TCM Effects:** To dispel wind and eliminate damp, quicken blood and relieve pain. **TCM Indications:** Common cold with headache, nasal congestion and runny nose, pain in joints due to rheumatism, mounting *qi*, dysmenorrhea, neuralgia, insomnia, diarrhea. **Isolated compounds:** 3318, 8095.
- T4664 *Passiflora coriacea* (Passifloraceae); GE YANG XI FAN LIAN; Coriaceous Passionflower*. **Isolated compounds:** 4988.
- T4665 *Passiflora edulis* (Passifloraceae); JI DAN GUO; Passionfruit. **Used part:** fruit. **TCM Effects:** To clear lung and moisten dryness, quiet spirit and relieve pain, harmonize blood and check dysentery. **TCM Indications:** Cough, dry throat, hoarseness, constipation, insomnia, dysmenorrhea, pain in joints, dysentery. **Isolated compounds:** 9232, 9233, 9234, 9235, 15926, 22615.
- T4666 *Passiflora incarnata* (Passifloraceae); FEN HONG SE XI FAN LIAN; May-apple. **Isolated compounds:** 9232, 9234, 9236.
- T4667 *Passiflora quadrangularis* (Passifloraceae); DA GUO XI FAN LIAN; Giant Granadilla. **Isolated compounds:** 6354, 6355, 6380, 6386, 15708.
- T4668 *Passiflora* sp. (Passifloraceae). **Isolated compounds:** 9467, 13003.
- T4669 *Pastinaca sativa* (Apiaceae); OU FANG FENG; Garden Parsnip. **Isolated compounds:** 15204, 22774, 22775.
- T4670 *Patrinia heterophylla* (Valerianaceae); YI YE BAI JIANG; Diversifolious Patrinia. Equivalent plant: *Patrinia scabra*. **Used part:** root. **TCM Effects:** To constrain sweat and dry damp, dispel stasis and disperse swelling. **TCM Indications:** Warm malaria, flooding, red and white vaginal discharge, knocks and falls. **Isolated compounds:** 15705.
- T4671 *Patrinia saniculaefolia* (Valerianaceae); BIAN DOU CAI YE BAI JIANG; Korea Patrinia*. **Isolated compounds:** 15276, 16716, 16717, 16718.
- T4672 *Patrinia scabiosaefolia* (Valerianaceae); HUANG HUA BAI JIANG; Dahurian Patrinia. **Used part:** whole herb. **TCM Effects:** See *Patrinia villosa*. **TCM Indications:** See *Patrinia villosa*. **Isolated compounds:** 1576, 3042, 4680, 6756, 8607, 8719, 8726, 9260, 9262, 9276, 12642, 12643, 16050, 16719, 16720, 16721, 16722, 16723, 18709, 18710, 19443, 19444, 19445, 19446, 19447, 19542, 19987, 20476, 20477.
- T4673 *Patrinia scabra* (Valerianaceae); CAO YE BAI JIANG; Scabrous Patrinia. **Used part:** root. **TCM Effects:** See *Patrinia heterophylla*. **TCM Indications:** See *Patrinia heterophylla*. **Isolated compounds:** 4414, 7409, 16724.
- T4674 *Patrinia* sp. (Valerianaceae). **Isolated compounds:** 3340.
- T4675 *Patrinia* spp. (Valerianaceae). **Isolated compounds:** 12642.
- T4676 *Patrinia villosa* (Valerianaceae); BAI JIANG; Whiteflower Patrinia. Equivalent plant: *Patrinia scabiosaefolia*. **Used part:** whole herb. **TCM Effects:** To clear heat and resolve toxin, expel pus and break stasis. **TCM Indications:** Intestinal welling abscess, dysentery, red and white vaginal discharge, postpartum blood stasis abdominal pain, red eyes with gall, swollen welling abscess, scab and lichen. **Isolated compounds:** 11083, 12950, 14982, 19935, 22479, 22480, 22481.
- Paullinia asiatica* = *Toddalia asiatica*
- T4677 *Paullinia cupana* (Sapindaceae); BA XI XIANG WU HUAN ZI; Guarana. **Isolated compounds:** 2892, 21310, 21312.
- Paullinia japonica* = *Ampelopsis japonica*
- T4678 *Paulownia fortunei* (Scrophulariaceae); PAO TONG; Fortune

- Paulownia. Equivalent plant: *Paulownia tomentosa*. Used part: bark. TCM Effects: To expel wind and eliminate damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp-heat impediment, strangury, erysipelas, toxin swelling from hemorrhoids, intestinal wind bleeding, swelling pain due to external injury, fracture. Isolated compounds: 20569.
- T4679 *Paulownia tomentosa* (Scrophulariaceae); MAO PAO TONG; Royal Paulownia. Used part: bark. TCM Effects: See *Paulownia fortunei*. TCM Indications: See *Paulownia fortunei*. Isolated compounds: 580, 1833, 3052, 3306, 3981, 11581, 13580, 16734, 19777, 19922, 20569, 22270.
- T4680 *Paxillus curtisii* (Paxillaceae); KE DI SI WANG ZHE JUN; Curtisi Paxillus*. Isolated compounds: 4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413.
- T4681 *Pedicularis decora* (Scrophulariaceae); MEI GUAN MA XIAN HAO ; Smallcalyx Woodbetony. Used part: root. TCM Effects: To enrich *yin* and supplement kidney, boost *qi* and fortify spleen. TCM Indications: Spleen-kidney vacuity, steaming bone tidal fever, pain in joints, no thought of food and drink. Isolated compounds: 16763, 16764.
- T4682 *Pedicularis muscicola* (Scrophulariaceae); XIAN SHENG MA XIAN HAO; Muscicolous Woodbetony. Used part: root. TCM Effects: To supplement original *qi* greatly, engender liquid and quiet spirit, strengthen heart and lower blood pressure. TCM Indications: *Qi*-blood depletion, vacuity taxation with profuse sweating, vacuity desertion failure, hypotension. Isolated compounds: 3247, 19782.
- T4683 *Pedicularis spicata* (Scrophulariaceae); SUI HUA MA XIAN HAO; Spicate Woodbetony. Isolated compounds: 16763.
- T4684 *Pedicularis striata* (Scrophulariaceae); HONG WEN MA XIAN HAO; Redstriate Woodbetony. Isolated compounds: 16763.
- T4685 *Pedicularis striata* ssp. *arachnoidea* (Scrophulariaceae); ZHU SI HONG WEN MA XIAN HAO; Arachnoidea Redstriate Woodbetony*. Isolated compounds: 16763.
- T4686 *Pedilanthus tithymaloides* (Euphorbiaceae); YU DAI GEN; Tithymalus-like Pedilanthus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling, engender flesh and stanch bleeding. TCM Indications: Toxin swelling of sores, painful swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 6918, 6919.
- T4687 *Peganum harmala* (Zygophyllaceae); LUO TUO PENG; Common Peganum. Used part: whole herb. TCM Effects: To diffuse lung *qi*, dispel wind-damp, disperse swelling toxin. TCM Indications: Cough and shortness of breath, wind-damp impediment pain, itchy skin, innominate toxin swelling. Isolated compounds: 5201, 5219, 9232, 9233, 9235, 16766, 16768, 16769, 16770, 16771, 19062, 22350.
- T4688 *Peganum harmala* (Zygophyllaceae); LUO TUO PENG ZI; Common Peganum Seed. Used part: seed. TCM Effects: To relieve cough and calm asthma, dispel wind-damp, resolve depression. TCM Indications: Cough and asthma, inhibited urination, numbness in limbs, aching pain in joints. Isolated compounds: 5219, 9232, 9235, 9236, 12488, 16770, 21070, 22350.
- T4689 *Peganum nigellastrum* (Zygophyllaceae); LUO TUO HAO; Little Peganum. Used part: whole herb. TCM Effects: To dispel damp and resolve toxin, quicken blood and relieve pain, diffuse lung and suppress cough. TCM Indications: Arthritis, menstrual disorder, bronchitis, headache. Isolated compounds: 5219, 5565, 5713, 13086, 13087, 22350.
- T4690 *Pelargonium graveolens* (Geraniaceae); XIANG YE; Roco Pelargonium. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, kill worms. TCM Indications: Rheumatism, mounting *qi*, scrotal eczema, scab and lichen. Isolated compounds: 3768, 12853, 14581, 15146, 18920, 21979.
- T4691 *Pelargonium hortorum* (Geraniaceae); SHI LA HONG; Fish Pelargonium. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Otitis media. Isolated compounds: 3767, 3768, 15901.
- T4692 *Pelargonium reniforme* (Geraniaceae); SHEN YE TIAN ZHU KUI; Reniform Pelargonium*. Isolated compounds: 2603, 8111, 8112, 8113, 8119, 11342, 16786, 16787, 16788, 17221, 17222, 21905.
- T4693 *Pelargonium* sp. (Geraniaceae). Isolated compounds: 20715.
- T4694 *Pelargonium zonale* (Geraniaceae); MA TI WEN TIAN ZHU KUI; Zonal Geranium. Isolated compounds: 16781.
- T4695 *Pellia epiphylla* (Dilaeaceae); XI TAI. Isolated compounds: 6999, 16790.
- T4696 *Penaeus orientalis* (Penaeidae); HAI XIAKihinouye; Prawn. Used part: meat or body. TCM Effects: To supplement kidney and invigorate *yang*, open stomach and transform phlegm. TCM Indications: Kidney vacuity impotence, convulsion of hands and feet, wind stroke with hemiplegia, mammary sore, enduring sores. Isolated compounds: 1921, 3095, 4569, 6688, 10913, 13126, 14133, 21940.
- T4697 *Penicillium oxalicum* . Isolated compounds: 6906.
- T4698 *Penicillium roqueforti* LOU DI QING MEI. Isolated compounds: 17999.
- T4699 *Penicillium simplicissimum* JI JIAN DAN QING MEI. Isolated compounds: 2441, 4206, 4207, 16806, 16807.
- T4700 *Penicillium steckii* . Isolated compounds: 6340, 6362, 20690, 20691.
- T4701 *Penicillium verruculosum* Mold; *Penicillium verruculosum*. Isolated compounds: 22421.
- T4702 *Pentopetia androsaernifolia* (Asclepiadaceae); PEN TUO PO TI CAO; *Pentopetia androsaernifolia*. Isolated compounds: 16959.
- T4703 *Pentopetia* spp. (Asclepiadaceae). Isolated compounds: 16958.
- T4704 *Peperomia duclouxii* (Piperaceae); MENG ZI CAO HU JIAO; Mengzi Peperomia*. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, transform stasis and dissipate binds, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls, swollen welling abscess and sore toxin, try to using for carcinoma of stomach and carcinoma of esophagus. Isolated compounds: 2482, 2483, 9818, 10015, 10016, 10388, 14009, 14010, 14011, 14107, 18265, 22170.
- T4705 *Peperomia pellucida* (Piperaceae); CAO HU JIAO; Shiny Peperomia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, stanch bleeding. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, knocks and falls, bleeding due to external injury. Isolated compounds: 16791.

- T4706 *Peperomia sui* (Piperaceae). Isolated compounds: 2415, 16906, 17871, 20491, 20493, 20494, 20495.
- T4707 *Peperomia villipetiola* (Piperaceae). Isolated compounds: 13820, 13821, 14116, 14515, 14516, 14587, 14588.
- T4708 *Peperomia vulcanica* (Piperaceae); HUO SHAN YAN CAO HU JIAO; Volcanic Peperomia*. Isolated compounds: 16907, 16908.
- T4709 *Periandra dulcis* TIAN ZHOU WEI JIA XIONG RUI. Isolated compounds: 16918, 16919, 16920.
- T4710 *Pericampylus glaucus* (Menispermaceae); XI YUAN TENG; Greyblue Pericampylus. Used part: vine or root. TCM Effects: To clear heat and resolve toxin, extinguish wind and check tetany, dispel wind-damp. TCM Indications: Toxin swelling of sores, swelling pain in throat, fright wind and convulsion, wind-damp impediment pain, knocks and falls, poisonous snake bite. Isolated compounds: 6918.
- T4711 *Pericopsis angolensis*. Isolated compounds: 6290, 17278.
- T4712 *Peridinium bipes* (Peridiniaceae); ER JIAO DUO JIA ZAO. Isolated compounds: 5377, 6424, 6425, 16922.
- T4713 *Perilla arguta* (Lamiaceae); RUI ZI SU; Argute Perilla*. Isolated compounds: 16930.
- T4714 *Perilla frutescens* (Lamiaceae); BAI SU YE; Common Perilla Leaf. Used part: leaf. TCM Effects: To course wind and diffuse lung, rectify *qi* and disperse food, resolve toxin of fish and crab. TCM Indications: Common cold due to wind-cold, cough and asthma, distention and oppression in stomach duct and abdomen, non-digestion of food accumulation, vomiting and diarrhea, cold dysentery, poisoning of fish or crab, genital swelling, leg *qi* with swelling toxin, snake or insect bites. Isolated compounds: 10270, 16931, 16934.
- T4715 *Perilla frutescens* (Lamiaceae); BAI SU ZI; Common Perilla Fruit. Used part: fruit. TCM Effects: To downbear *qi* and disperse phlegm, calm asthma, moisten intestines. TCM Indications: Phlegm congestion and *qi* counterflow, cough and asthma, intestinal dry and constipation. Isolated compounds: 6716, 8816, 15983, 16929, 16930.
- T4716 *Perilla frutescens* f. *viridis* (Lamiaceae); QING ZI SU ; Viridian Common Perilla*. Isolated compounds: 16931, 16933.
- T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*] (Lamiaceae); JIAN ZI SU; Acute Common Perilla. Used part: seed. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 6095, 6096, 6193, 6745, 13774, 16930.
- T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*] (Lamiaceae); JIAN ZI SU YE; Acute Common Perilla Leaf. Used part: leaf. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 2222, 2455, 2887, 3040, 3045, 3242, 4550, 6745, 7521, 11406, 12420, 12843, 12849, 13774, 13776, 15204, 15238, 16929, 17376, 17377, 18000, 19587, 19983, 20369, 22465.
- T4719 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU; Common Perilla. Equivalent plant: *Perilla frutescens* var. *acuta*, *Perilla frutescens* var. *crispa*. Used part: seed. TCM Effects: To downbear *qi*, transform phlegm, calm asthma, moisten intestines. TCM Indications: Phlegm congestion and *qi* counterflow, cough and asthma, intestinal dry and constipation. Isolated compounds: 12891, 12893, 22554.
- T4720 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU GENG; Common Perilla Stem. Equivalent plant: *Perilla frutescens* var. *crispa*. Used part: stem. TCM Effects: To loosen center and rectify *qi*, quiet fetus, harmonize blood. TCM Indications: Spleen-stomach *qi* stagnation, glomus fullness, fetus *qi* disharmony, beriberi with edema, hemoptysis, blood ejection, spontaneous external bleeding. Isolated compounds: 6716, 12893, 16929.
- T4721 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU YE; Common Perilla Leaf. Equivalent plant: *Perilla frutescens* var. *acuta*. Used part: leaf. TCM Effects: To dissipate cold and resolve exterior, diffuse lung and transform phlegm, move *qi* and harmonize center, quiet fetus, resolve toxin of fish and crab. TCM Indications: Wind-cold exterior syndrome, cough with profuse phlegm, distention fullness in chest and stomach duct, nausea and vomiting, abdominal pain and diarrhea, malign obstruction in pregnancy, poisoning of fish or crab. Isolated compounds: 2306, 3045, 3242, 4356, 5690, 11406, 12844, 12849, 13775, 14374, 16930, 16932, 16936, 19983.
- T4722 *Perilla frutescens* var. *crispa* (Lamiaceae); HUI HUI SU; Crisped Common Perilla. Used part: seed. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 16930, 19983, 20369.
- T4723 *Perilla frutescens* var. *crispa* (Lamiaceae); HUI HUI SU GENG; Crisped Common Perilla Stem. Used part: stem. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 1489, 2896, 2913, 3045, 3242, 3760, 6745, 12420, 12843, 12849, 13142, 13450, 13774, 13775, 15204, 15238, 16930, 16935, 17376, 19583.
- Perilla frutescens* var. *purpurascens* = *Perilla frutescens* var. *acuta*
- T4724 *Perilla* spp. (Lamiaceae). Isolated compounds: 19838.
- T4725 *Periploca calophylla* (Asclepiadaceae); QING SHE TENG; Greensnake vine. Used part: stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-cold-damp impediment, numbness of limbs, lumbago, knocks and falls. Isolated compounds: 12948, 16959, 17562.
- T4726 *Periploca forrestii* (Asclepiadaceae); XI NAN GANG LIU; Forrest Silkvine. Used part: root or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse welling abscess. TCM Indications: Wind-damp impediment pain, menstrual block, mammary welling abscess, knocks and falls, fracture. Isolated compounds: 10599, 16923, 16924, 16948, 16959.
- T4727 *Periploca graeca* (Asclepiadaceae); XI LA GANG LIU; Grecian Silkvine. Isolated compounds: 663, 4549, 7768, 16900, 16943, 16959.
- T4728 *Periploca nigrescens* (Asclepiadaceae); HEI GANG LIU; Black Silkvine. Isolated compounds: 281, 282, 4012, 4547, 4972, 4973, 20395, 20397, 20399, 20401.
- T4729 *Periploca sepium* (Asclepiadaceae); XIANG JIA PI; Chinese Silkvine Root-bark. Used part: root cortex. TCM Effects: To dispel wind-damp, strengthen sinews and bones. TCM Indications: Wind-damp impediment pain, limp aching lumbus and knees, palpitation and shortness of breath, edema in lower limb. Isolated compounds: 1110, 1111, 1112, 1113, 3951, 3953, 3956, 8828, 8829, 8830, 8831, 14088, 14684, 14685, 14686, 15493, 16938, 16939, 16940, 16941, 16942, 16943, 16944, 16945, 16946, 16947, 16948, 16949, 16950, 16951, 16952, 16953, 16954, 16955, 16956, 16957, 16958, 16959, 16961,

- 16962, 16963, 17566, 17801, 17802, 17803, 19092, 19093, 19094, 19095, 19853, 19987, 22856.
- T4730 *Peristrophe roxburghiana* (Acanthaceae); GUAN YIN CAO; Roxburgh Peristrophe. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and extinguish wind, dissipate stasis and disperse swelling. TCM Indications: Lung heat cough, tuberculosis and hacking of blood, blood ejection, infant fright wind, red swollen of throat, mouth and tongue sores, dribbling pain of urination, swelling welling abscess and sore and boil, scrofula, painful swelling from knocks and falls, bleeding due to external injury, poisonous snake bites. Isolated compounds: 16964, 16965.
- T4731 *Persea americana* [Syn. *Persea gratissima*] (Lauraceae); E LI; American Avocado. Used part: fruit. TCM Effects: To engender liquid and allay thirst. TCM Indications: Diabetes mellitus. Isolated compounds: 166, 167, 233, 234, 1596, 5691, 9748.
- T4732 *Persea borbonia* (Lauraceae). Isolated compounds: 15903.
Persea gratissima = *Persea americana*
- T4733 *Persea indica* (Lauraceae); YIN DU E LI; Indian Avocado*. Isolated compounds: 1264, 1265, 5465, 8201.
- T4734 *Persea* spp. (Lauraceae). Isolated compounds: 15903.
Persicaria sibirica = *Polygonum sibiricum*
- T4735 *Pertya glabrescens* (Asteraceae); JIN WU MAO SAO JU; Longflower Bloomdaisy. Isolated compounds: 9528.
- T4736 *Petalostemon purpureus* ZI SE BAN RUI DOU; Purple Prairie-clover. Isolated compounds: 17008.
- T4737 *Petalostemon purpureum* HUANG SE BAN RUI DOU; Yellow Prairie-clover. Isolated compounds: 17009.
- T4738 *Petasites albus* (Asteraceae); BAI HUA FENG DOU CAI; White-flower Butterbur*. Isolated compounds: 10094.
- T4739 *Petasites formosanus* (Asteraceae); TAI WAN FENG DOU CAI; Taiwan Butterbur*. Isolated compounds: 2120, 2121, 2122, 4989, 7768, 13098, 17012, 17014, 20148.
Petasites hybridu = *Petasites officinalis*
- T4740 *Petasites japonicus* (Asteraceae); FENG DOU CAI; Japanese Butterbur. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and disperse swelling. TCM Indications: Swelling pain in throat, swollen welling abscess and toxin of clove, poisonous snake bite, knocks and falls. Isolated compounds: 198, 264, 395, 864, 1188, 1205, 2412, 3194, 3241, 3242, 5617, 7227, 7229, 7986, 7987, 7988, 7989, 7990, 8016, 8018, 8019, 8021, 9607, 10094, 11591, 11626, 11822, 12813, 15693, 15696, 17010, 17011, 17013, 17015, 17016, 17017, 19302, 19731, 21616, 22389.
- T4741 *Petasites kablikianus* (Asteraceae); KA BU LI FENG DOU CAI; Kabliki Butterbur*. Isolated compounds: 11591.
- T4742 *Petasites laevigatus* (Asteraceae); PING HUA FENG DOU CAI; Smooth Butterbur*. Isolated compounds: 17546.
- T4743 *Petasites officinalis* [Syn. *Petasites hybridu*] (Asteraceae); ZI FENG DOU CAI; Purple Butterbur. Isolated compounds: 11591, 17013, 17015.
- T4744 *Petasites* sp. (Asteraceae). Isolated compounds: 2119, 7230.
- T4745 *Petasites tricholobus* (Asteraceae); MAO LIE FENG DOU CAI; Hairyleaved Butterbur. Isolated compounds: 2168, 17018, 17019, 18071.
- T4746 *Petiveria alliacea* (Phytolaccaceae); SUAN CHOU MU JI CAO. Isolated compounds: 2293, 5391, 5392, 5393, 5394, 5395, 6501, 8772, 8777, 8778.
- T4747 *Petrocosmea kerrii* (Gesneriaceae); SHI HU DIE; Kerri Petrocosmea*. Isolated compounds: 3432.
- T4748 *Petroselinum crispum* (Apiaceae); ZHOU YE OU QIN; Curly Garden Parsley. Isolated compounds: 1502, 1520, 2284, 15204.
- T4749 *Petroselinum* sp. (Apiaceae). Isolated compounds: 2309.
- T4750 *Petrosia strongylata*; Sponge *Petrosia strongylata*. Isolated compounds: 12613, 12614.
- T4751 *Petunia hybrida* (Solanaceae); BI DONG QIE; Common Petunia. Isolated compounds: 13458, 13459, 13461, 17026.
- T4752 *Petunia nyctaginiflora* (Solanaceae); ZI MO LI HUA BI DONG QIE; Nyctaginiflower Petunia*. Isolated compounds: 21962, 21964.
- T4753 *Petunia reitzii* (Solanaceae). Isolated compounds: 17358, 17359.
- T4754 *Peucedanum bourgaei* (Apiaceae); BO SHI QIAN HU; Bourgae Hogfennel*. Isolated compounds: 17036.
Peucedanum decursivum = *Angelica decursiva*
- T4755 *Peucedanum formosanum* (Apiaceae); TAI WAN QIAN HU; Taiwan Hogfennel. Isolated compounds: 17763.
- T4756 *Peucedanum govanianum* var. *bicolor* (Apiaceae); LI JIANG QIAN HU; Likiang Hogfennel. Isolated compounds: 1346, 7707, 12800, 14894, 17030, 17375, 18165, 18317, 20156, 20280.
- T4757 *Peucedanum grande* (Apiaceae); DA QIAN HU; Big Hogfennel*. Isolated compounds: 2833.
- T4758 *Peucedanum guangxiense* (Apiaceae); GUANG XI QIAN HU; Guangxi Hogfennel. Isolated compounds: 17763.
- T4759 *Peucedanum hispanicum* (Apiaceae). Isolated compounds: 16263.
- T4760 *Peucedanum japonicum* (Apiaceae); BIN HAI QIAN HU; Japan Hogfennel. Used part: root. TCM Effects: To clear heat and relieve cough, disinhibit urine and resolve toxin. TCM Indications: Lung heat cough, damp-heat strangury pain, red swollen sore and welling abscess. Isolated compounds: 17032, 17763.
- T4761 *Peucedanum longshengens* (Apiaceae); NAN LING QIAN HU; Nanling Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 476.
- T4762 *Peucedanum mashanens* (Apiaceae); MA SHAN QIAN HU; Mashan Hogfennel. Isolated compounds: 9204.
- T4763 *Peucedanum morisonii* (Apiaceae); ZHUN GE ER QIAN HU; Dzungaria Hogfennel*. Used part: root. TCM Effects: To dispel wind and dissipate cold, rectify *qi* and relieve pain. TCM Indications: Wind-cold common cold, cough, stomach cold distending pain. Isolated compounds: 17028.
- T4764 *Peucedanum officinale* (Apiaceae); YAO YONG QIAN HU; Hog's Fennel. Isolated compounds: 17028.
- T4765 *Peucedanum oreoselinum* (Apiaceae); SHAN QIAN HU; Mountain Parsley. Isolated compounds: 12747, 17036.
- T4766 *Peucedanum ostruthium* (Apiaceae); OU QIAN HU; Masterwort. Isolated compounds: 11001, 16261, 16263, 16264.
- T4767 *Peucedanum palustre* (Apiaceae); ZHAO ZE QIAN HU; Marsh Parsley. Isolated compounds: 16263, 16457.
- T4768 *Peucedanum praeruptorum* (Apiaceae); BAI HUA QIAN HU;

- Whiteflower Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 317, 1239, 1536, 2107, 2309, 8095, 11688, 15645, 15647, 17029, 17031, 17033, 17756, 17757, 17758, 17759, 17760, 17761, 17762, 17763, 17764, 18086, 18282, 18283, 18284, 18285, 18286, 22774.
- T4769 *Peucedanum rubricaulae* (Apiaceae); YUN QIAN HU; Yun Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 359, 438, 4193, 5039, 11001, 11346, 13571, 13687, 14825, 16261, 19040, 19984, 20280, 22775.
- T4770 *Peucedanum ruthenicum* (Apiaceae); E GUO QIAN HU; Russian Hogfennel*. Isolated compounds: 17028.
- T4771 *Peucedanum* sp. (Apiaceae). Isolated compounds: 1960.
- T4772 *Peucedanum stenocarpum* (Apiaceae); XIA GUO QIAN HU; Narrowfruit Hogfennel*. Isolated compounds: 2833, 17028.
- T4773 *Peucedanum terebinthaceum* (Apiaceae); SHI FANG FENG; Terebinthaceous Hogfennel. Used part: root. TCM Effects: To dissipate wind and clear heat, downbear *qi* and disperse phlegm. TCM Indications: Common cold, cough, phlegm asthma, head wind dizziness. Isolated compounds: 13571.
- T4774 *Peumus boldus* (Monimiaceae); BO LU DU SHU; Boldo. Isolated compounds: 2538, 11256.
- T4775 *Pfaffia paniculata* BA XI REN SHEN. Isolated compounds: 17037, 17038.
- T4776 *Phaeanthus ebracteolatus* (Annonaceae). Isolated compounds: 17039.
- T4777 *Phalaris arundinacea* (Poaceae); YI CAO; Reed Canary-grass. Used part: whole herb. TCM Effects: To regulate menstruation and check discharge. TCM Indications: Menstrual disorder, red and white vaginal discharge. Isolated compounds: 6370, 8971, 9646.
- T4778 *Phallus impudicus* (Phallaceae); BAI GUI BI; Stinking Polecat, Wood Witch. Used part: sporocarp. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain. Isolated compounds: 17090.
- T4779 *Pharbitis nil* (Convolvulaceae); QIAN NIU ZI; Lobedleaf Pharbitis Seed. Equivalent plant: *Pharbitis purpurea*. Used part: seed. TCM Effects: To drain water and free stool, disperse accumulation and kill worms. TCM Indications: Edema distention fullness, inhibited urine and stool, phlegm-rheum and accumulation-gathering, *qi* counterflow with cough and asthma, abdominal pain due to worm accumulation, ascariasis, taeniasis. Isolated compounds: 3477, 6765, 8095, 8372, 8373, 8377, 11582, 13257, 15597, 16808, 16884, 17043, 17044.
- T4780 *Pharbitis purpurea* (Convolvulaceae); YUAN YE QIAN NIU ZI; Roundleaf Pharbitis Seed. Used part: seed. TCM Effects: See *Pharbitis nil*. TCM Indications: See *Pharbitis nil*. Isolated compounds: 8372, 8373, 8374, 8377.
Phaseolus angularis = *Vigna angularis*
- T4781 *Phaseolus coccineus* (Fabaceae); DUO HUA CAI DOU; Scarlet Runner Bean. Isolated compounds: 13439.
- T4782 *Phaseolus multiflorus* (Fabaceae); HONG HUA CAI DOU; Runner Bean. Isolated compounds: 15708, 17045.
- T4783 *Phaseolus* sp. (Fabaceae). Isolated compounds: 1048.
- T4784 *Phaseolus* spp. (Fabaceae). Isolated compounds: 17047.
- T4785 *Phaseolus vulgaris* (Fabaceae); BAI FAN DOU; Kidney Bean. Used part: seed. TCM Effects: To enrich and nourish, resolve heat, disinhibit urine, disperse swelling. TCM Indications: Summerheat-heat vexation and thirst, edema, beriberi. Isolated compounds: 618, 3040, 3594, 4451, 5010, 5027, 7384, 8012, 8753, 11551, 12083, 12714, 12718, 16781, 17027, 17048, 17049, 17425, 17913, 19238, 19239, 20129, 20369.
- T4786 *Phasianus colchicus* (Phasianidae); ZHI; Common Pheasant. Used part: meat. TCM Effects: To supplement center and boost *qi*, engender liquid and allay thirst. TCM Indications: Spleen vacuity diarrhea, distention fullness in chest and abdomen, diabetes mellitus, frequent urination, phlegm asthma, fistula. Isolated compounds: 13504, 15949.
- T4787 *Phellinus igniarius* (Polyporaceae); SANG HUANG; *Phellinus igniarius*. Used part: sporocarp. TCM Effects: To stanch bleeding, quicken blood, transform rheum, check diarrhea. TCM Indications: Flooding, blood strangury, prolapse of rectum with bleeding, vaginal discharge, amenorrhea. Isolated compounds: 700, 2887, 5763, 6075, 6201, 7250, 9567, 9815, 11081, 11413, 15954, 17059, 17060, 17061, 17062, 17063, 17064, 17968, 20566.
- T4788 *Phellinus linteus* (Polyporaceae); LIE TI MU CENG KONG JUN. Isolated compounds: 9561.
- T4789 *Phellodendron amurense* (Rutaceae); HUANG BAI; Amur Corktree. Equivalent plant: *Phellodendron chinense*, *Phellodendron chinense* var. *Glabriusculum*, *Phellodendron amurense* var. *wilsonii*. Used part: bark. TCM Effects: To drain fire, dispel damp and resolve toxin. TCM Indications: Damp-heat dysentery, tuberculosis, epidemic meningitis, acute conjunctivitis, trachoma, fever, abdominal pain, diarrhea, suppurative hematochezia, tenesmus, jaundice, yellow thick foul leukorrhagia, swelling pain in knees and feet, urinary tract infection, boil, sore, ulcer, eczema, mouth sore, hemorrhoids, burns, scalds, exuberance of fire with tidal fever, tidal fever with night sweat, emission. Isolated compounds: 1091, 2303, 3040, 3070, 4969, 4971, 9428, 11851, 12226, 13374, 13716, 15598, 15761, 15882, 15883, 15884, 16555, 17053, 17057, 17058, 17065, 17066, 17078, 19983.
- T4790 *Phellodendron amurense* var. *wilsonii* (Rutaceae); TAI WAN HUANG BO; Taiwan Corktree*. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 874, 1091, 1764, 1935, 5063, 9815, 9818, 10195, 11642, 12020, 12847, 13097, 14205, 14254, 14443, 14652, 14673, 15448, 16257, 16399, 17052, 17053, 17067, 17068, 17069, 17072, 17073, 17076, 18317, 19542, 19627, 19784, 19983, 20034, 21266, 21634, 22195, 22332.
- T4791 *Phellodendron chinense* (Rutaceae); HUANG PI SHU; Chinese Corktree. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 2303, 13374, 15598, 15599, 16555, 17065, 17070, 17071, 17075, 17480.
- T4792 *Phellodendron chinense* var. *glabriusculum* (Rutaceae); TU YE HUANG PI SHU; Glabrousleaf Chinese Corktree. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 4122, 13374, 17065, 19983, 21077.
- T4793 *Phellodendron japonicum* (Rutaceae); RI BEN HUANG BAI; Japan

- Corktree*. Isolated compounds: 315, 481, 663, 874, 1091, 2224, 2887, 3723, 3936, 4135, 4189, 6954, 7951, 8983, 9815, 9818, 13097, 14141, 14205, 14254, 14652, 17053, 17066, 17074, 18317, 19081, 19540, 19542, 19983, 22195, 22332.
- T4794 *Phellodendron sachalinense* (Rutaceae); KU YE DAO HUANG BAI; Sachaline Corktree*. Isolated compounds: 17078.
- T4795 *Phellodendron* spp. (Rutaceae). Isolated compounds: 15761.
- T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides* (Megascolecidae;Lumbricidae); QIU YIN; Earthworm. Used part: body. TCM Effects: To clear heat, calm liver, calm asthma, free network vessels, lower blood pressure. TCM Indications: Ardent fever and manic agitation, fright wind and convulsion, wind-heat headache, red eyes, wind stroke with hemiplegia, chronic bronchitis, asthma, bronchial asthma, hypertension, throat impediment, pain in joints, gum hemorrhage, urinary stoppage, scrofula, epidemic parotitis, sore. Isolated compounds: 3585, 9067, 9070, 10913, 22756.
- T4797 *Phillyrea latifolia* (Oleaceae); KUO YE OU NV ZFEN; Tree Phyllirea. Used part: leaf. TCM Effects: To promote contraction, disinherit urine. ^[5509] TCM Indications: Headache. ^[5509] Isolated compounds: 17145, 18792, 20569.
- T4798 *Philonotis fontana* (Bartramiaceae); ZE XIAN. Used part: plant body. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, common cold, cough, swelling welling abscess and sore and boil, burns and scalds. Isolated compounds: 5692, 17147.
- T4799 *Philydrum lanuginosum* (Philydraceae); TIAN CONG; Woolly Philydrum. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin. TCM Indications: Edema, heat impediment, toxin swelling of sores, scab and lichen, beriberi, foot rot. Isolated compounds: 2843, 11659, 19087, 20562.
- T4800 *Phlegmariusus fordii* (Huperziaceae); HUA NAN MA WEI SHAN; Fordi Phlegmariusus. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, disperse swelling and relieve pain, clear heat and resolve toxin. TCM Indications: Swelling pain in joints, numbness in limbs, knocks and falls, cough and asthma, heat strangury, poisonous snake bite. Isolated compounds: 7879, 17154, 17155, 17156, 17157, 17158.
- T4801 *Phlegmariusus phlegmaria* [Syn. *Lycopodium phlegmaria*] (Huperziaceae); MA WEI SHAN; Slender Phlegmariusus. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, fever and sore pharynx, edema, urticaria. Isolated compounds: 13188, 13193, 13220, 13221, 17148, 17149, 17150, 17151, 17152, 17153, 19770.
- T4802 *Pheum pratense* (Poaceae); TI MU CAO; Timothy. Used part: whole herb. TCM Indications: Indigestion, diarrhea, dysentery, dribbling pain of urination. Isolated compounds: 7768.
- T4803 *Phlogacanthus curviflorus* (Acanthaceae); HUO YAN HUA; Curvedflower Phlogacanthus. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, interrupt malaria. TCM Indications: Heat toxin swollen welling abscess, malaria. Isolated compounds: 85, 2331, 4680, 13098, 17159, 17160, 17161, 17162, 17163, 19983, 20556.
- T4804 *Phlojodicarpus sibiricus* (Apiaceae); ZHANG GUO QIN; Siberian Phlojodicarpus. Used part: root. TCM Effects: See *Angelica sinensis*. TCM Indications: See *Angelica sinensis*. Isolated compounds: 5707, 22552.
- T4805 *Phlojodicarpus* sp. (Apiaceae). Isolated compounds: 22552.
- T4806 *Phlomis aurea* (Lamiaceae); JIN HUANG CAO SU; Goldenyellow Jerusalem sage*. Isolated compounds: 2279, 6998, 10085, 17167.
- T4807 *Phlomis brunneogaleata* (Lamiaceae); ZONG KUI CAO SU. Isolated compounds: 580, 2683, 2920, 2924, 3166, 3551, 3609, 3674, 7925, 9750, 11128, 11195, 12916, 18221.
- T4808 *Phlomis grandiflora* var. *grandiflora* (Lamiaceae); DA HUA CAO SU; Largeflower Jerusalem sage. Isolated compounds: 17164.
- T4809 *Phlomis lunariifolia* (Lamiaceae); XIN YUE XING YE CAO SU. Isolated compounds: 13074, 13075, 13138.
- T4810 *Phlomis mongolica* (Lamiaceae); MENG GU CAO SU; Mongolian Jerusalem sage. Used part: root or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Rheumatic arthritis, common cold, knocks and falls, vacuity and fever. Isolated compounds: 511, 6997, 19782.
- T4811 *Phlomis pungens* (Lamiaceae); CI CAO SU; Pungent Jerusalem sage*. Isolated compounds: 8289.
Phlomis rotata = *Lamiophlomis rotata*
- T4812 *Phlomis spinidens* (Lamiaceae). Isolated compounds: 17165, 17166.
- T4813 *Phlomis tuberosa* (Lamiaceae); KUAI JING CAO SU; Tuberosroot Jerusalem sage. Used part: whole herb or root. TCM Effects: To resolve toxin and disperse swelling, quicken blood and regulate menstruation. TCM Indications: Menstrual disorder, syphilis, swelling of sores. Isolated compounds: 1494, 2887, 2906, 2918.
- T4814 *Phlomis umbrosa* (Lamiaceae); CAO SU; Jerusalem sage. Used part: whole herb with root. TCM Effects: To dispel wind and transform phlegm, disinherit damp and eliminate impediment, dispel phlegm, resolve toxin, disperse swelling. TCM Indications: Common cold, cough and abundant phlegm, wind-damp impediment pain, knocks and falls, swelling and toxin of sore and welling abscess. Isolated compounds: 8597, 10494, 19574.
- T4815 *Phoebe chemensii* (Lauraceae); CHE SHI NAN; Chemens Phoebe*. Isolated compounds: 13631.
- T4816 *Phoebe cinnamomifolia* (Lauraceae); YU GUO XIAO YE NAN; Cinnamomi-leaf Phoebe*. Isolated compounds: 16414.
- T4817 *Phoebe mollicella* (Lauraceae). Isolated compounds: 21246.
- T4818 *Phoebe nanmu* (Lauraceae); NAN MU; Nanmu. Used part: wood branchlet-leaf. TCM Effects: To harmonize center and downbear counterflow, check vomiting and diarrhea, disinherit water and disperse edema. TCM Indications: Vomiting and diarrhea with cramp, edema. Isolated compounds: 16396.
- T4819 *Phoenix canariensis* (Arecaceae); ZHEN KUI; Canary Island Date-palm. Isolated compounds: 21589.
- T4820 *Phoenix dactylifera* (Arecaceae); WU LOU ZI; Phoenix Date. Used part: fruit. TCM Effects: To boost *qi* and supplement vacuity, disperse food and transform phlegm. TCM Indications: Cough with phlegm, vacuity detriment. Isolated compounds: 2923, 3585, 7387, 7819, 13100.
- T4821 *Pholidota articulata* (Orchidaceae); JIE JING SHI XIAN TAO; Articulate Pholidota. Used part: whole herb. TCM Effects: To enrich

- yin* and boost *qi*, dissipate stasis and disperse swelling. TCM Indications: Lung vacuity cough, prolapse of uterus, dizziness, headache, emission, leukorrhea, swelling toxin of welling abscess and sore, knocks and falls, fracture with wound sinew. Isolated compounds: 7811.
- T4822 *Pholidota rubra* (Orchidaceae); HONG SHI XIAN TAO; Rubi Pholidota*. Isolated compounds: 17176.
- T4823 *Pholidota yunnanensis* (Orchidaceae); YUN NAN SHI XIAN TAO; Yunnan Pholidota. Used part: Pseudobulb or whole herb. TCM Effects: To moisten lung and relieve cough, dissipate stasis and relieve pain, clear heat and disinherit damp. TCM Indications: Tuberculosis and hemoptysis, lung heat cough, chest and rib-side pain, stomachache, swelling toxin of welling abscess and sore, wind-damp pain. Isolated compounds: 4519, 4529, 17175, 17196, 17197, 17198, 17199, 17200, 17201.
- T4824 *Phoma lingam* JING DIAN MEI. Isolated compounds: 17177, 17178, 17179, 17180, 17604, 17605, 17606, 17607, 17608.
- T4825 *Phormium tenax* (Agavaceae); XIN XI LAN MA; New Zealand Flax. Isolated compounds: 7736, 11355.
- T4826 *Photinia lactiflora* (Rosaceae); MAO HUA SHI NAN; Hairyflower Photinia*. Isolated compounds: 1935.
- T4827 *Photinia parvifolia* (Rosaceae); XIAO YE SHI NAN; Small-leaf Photinia*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: jaundice (icterus, ICT), mammary welling abscess, toothache. Isolated compounds: 6250, 8624, 9023, 9024, 10014, 11726.
- T4828 *Photinia serrulata* (Rosaceae); SHI NAN; Chinese Photinia. Used part: tender branch-leaf. TCM Effects: To dispel wind-damp, relieve itch, strengthen sinews and bones, boost liver and kidney. TCM Indications: Wind-damp impediment pain, head wind headache, wind papules [=rubella], weakness in legs and knees, kidney vacuity lumbar pain, impotence with emission. Isolated compounds: 16050, 22270.
- T4829 *Phragmites communis* (Poaceae); LU GEN; Common Reed Rhizome. Used part: rhizome. TCM Effects: To clear heat and engender liquid, eliminate vexation, check vomiting, disinherit urine. TCM Indications: Febrile diseases with vexation and thirst, stomach heat vomiting, lung heat cough, pulmonary welling abscess, heat strangury with inhibited pain. Isolated compounds: 3907, 3925, 18834, 21589, 22554.
- T4830 *Phryma leptostachya* (Phrymataceae); LAO PO ZI ZHEN XIAN; Lopseed. Used part: herb or root. TCM Effects: To resolve toxin and kill worms. TCM Indications: Scab sore, yellow-water sore, sore toxin. Isolated compounds: 12680, 17203.
- T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*] (Scrophulariaceae); SONG HAO; Japanese Phtheirospermum. Used part: whole herb. TCM Effects: To clear heat and disinherit damp, resolve toxin. TCM Indications: Jaundice, edema, wind-heat common cold, mouth sore, nasitis, swelling toxin of sore and boil. Isolated compounds: 12725, 17513.
- T4832 *Phyllanthus acuminatus* (Euphorbiaceae); JIAN YE YE XIA ZHU; Sharpleaf Leafflower*. Isolated compounds: 11978, 17216, 17217, 17218, 17219.
- T4833 *Phyllanthus discoides* (Euphorbiaceae); PAN ZHUANG YE XIA ZHU; Discoid Leafflower*. Isolated compounds: 19639.
- T4834 *Phyllanthus emblica* (Euphorbiaceae); AN MO LE; Emblic Leafflower. Used part: fruit. TCM Effects: To relieve cough and transform phlegm, engender liquid and allay thirst, resolve toxin. TCM Indications: Common cold with fever, cough, throat pain, diphtheria, enteritis, diarrhea, eczema, heat vexation and thirst. Isolated compounds: 3176, 3490, 3491, 3492, 3493, 4055, 5517, 5518, 5519, 6239, 6730, 6819, 6853, 6921, 7402, 8030, 8096, 8098, 8108, 8109, 8311, 9502, 13098, 13420, 13423, 15007, 15008, 15009, 15010, 15011, 15012, 15013, 15014, 15015, 15016, 15017, 15362, 17171, 17205, 17206, 17207, 17208, 17209, 17210, 17211, 17212, 17213, 17898, 17899, 18203, 18228, 20969, 21053.
- T4835 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN GEN; Emblic Leafflower Root. Used part: root. TCM Effects: To clear heat and disinherit damp, resolve toxin and dissipate binds. TCM Indications: Diarrhea, dysentery, jaundice, scrofula, eczema of skin, centipede bite. Isolated compounds: 13098.
- T4836 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN MU PI; Emblic Leafflower Bark. Used part: bark. TCM Effects: To clear heat and disinherit damp, cool blood and resolve toxin. TCM Indications: Mouth sore, clove sore, hemorrhoids, scrotal eczema, bleeding due to external injury. Isolated compounds: 3490, 3493, 4055, 5519, 8095, 8108, 13098.
- T4837 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN YE; Emblic Leafflower Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disinherit damp and disperse swelling. TCM Indications: Mouth sore, clove sore, eczema, dermatitis, edema, hypertension, poisonous snake bite, knocks and falls. Isolated compounds: 1065, 1764, 3490, 3493, 4055, 5519, 6923, 7278, 7279, 7282, 7285, 8095, 8108, 11642, 12020, 12082, 13098, 14200, 14345, 15063, 15184, 15279, 15280, 15281, 16836, 18003, 18317, 18411, 19087, 21053, 21054, 22078.
- T4838 *Phyllanthus flexuosus* (Euphorbiaceae); LUO E YE XIA ZHU; Flexuose Leafflower*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Allergic dermatitis, infantile night crying, snake bite, wind-damp. Isolated compounds: 2331, 13094, 13098.
- T4839 *Phyllanthus myrtifolius* (Euphorbiaceae); YIN DU SI LI LAN KA YE XIA ZHU; Indian-Sri-Lankan Leafflower*. Isolated compounds: 18662.
- T4840 *Phyllanthus niruri* (Euphorbiaceae); ZHU ZI CAO; Nirur Leafflower*. Used part: whole herb. TCM Effects: To clear heat, disinherit damp, transform phlegm and resolve toxin. TCM Indications: Jaundice, diarrhea, dysentery, heat strangury, stone strangury, edema, phlegm cough, red eyes with gall, poisonous snake bite. Isolated compounds: 15622, 15623, 15624, 15625, 15626, 15627, 17215, 17231, 18624.
- T4841 *Phyllanthus piscatorum* (Euphorbiaceae); YU FU YE XIA ZHU; Fisherman Leafflower*. Isolated compounds: 11978, 17478.
- T4842 *Phyllanthus reticulatus* (Euphorbiaceae); LONG YAN JING; Reticulate Leafflower*. Used part: root, stem-leaf. TCM Effects: To dispel wind, disinherit damp and quicken blood. TCM Indications: Pain in joints due to rheumatism, hepatitis, nephritis, enteritis, dysentery, knocks and falls. Isolated compounds: 18265.
- T4843 *Phyllanthus urinaria* (Euphorbiaceae); YE XIA ZHU; Common

- Leafflower. Used part: whole herb with root. TCM Effects: To clear heat and calm liver, disinhibit water and resolve toxin. TCM Indications: Cough, enteritis, dysentery, infective hepatitis, nephritis with edema, urinary tract infection, child *gan* accumulation, acute conjunctivitis nephelium, mouth sore, head sore, innominate toxin swelling. Isolated compounds: 4055, 5052, 5282, 8095, 12020, 14160, 17223, 17224, 18317, 19087, 21956, 22257, 22258.
- T4844 *Phyllostachys edulis* (Poaceae); MENG ZONG ZHU; Edible Bamboo. Isolated compounds: 17229, 17230.
- T4845 *Physalis alkekengi* (Solanaceae); SUAN JIANG; Japanese-lantern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit pharynx and larynx, disinhibit urine and free stool. TCM Indications: Acute tonsillitis, swelling pain in throat, laryngeal infection in children, lung heat cough, jaundice, dysentery, edema, dribbling urination, fecal stoppage, yellow-water sore, eczema, erysipelas. Isolated compounds: 4293, 17239, 17240, 17241, 17242, 21372.
- T4846 *Physalis alkekengi* var. *franchetii* (Solanaceae); GUA JIN DENG; Franchet Groundcherry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Heat cough, throat pain, jaundice, dysentery, edema, clove sore, erysipelas. Isolated compounds: 12488, 17243, 17244, 17245, 17246, 21372.
- T4847 *Physalis alkekengi* var. *franchetii* (Solanaceae); GUA JIN DENG GEN; Franchet Groundcherry Root. Used part: root. TCM Effects: To clear heat and disinhibit water. TCM Indications: Malaria, jaundice, mounting *qi*. Isolated compounds: 17238.
- T4848 *Physalis angulata* (Solanaceae); KU ZHI; Cutleaf Groundcherry. Used part: whole herb. TCM Effects: To clear heat, disinhibit urine, resolve toxin, disperse swelling. TCM Indications: Common cold, lung heat cough, swelling pain in throat, gum swelling and pain, damp-heat jaundice, dysentery, edema, heat strangury, heaven-borne sore, clove sore. Isolated compounds: 17240.
- T4849 *Physalis chenopodifolia* (Solanaceae). Isolated compounds: 17232, 17233, 17234, 17235, 17236.
- T4850 *Physalis ixocarpa* (Solanaceae); NIAN XING GUO SHI SUAN JIANG. Isolated compounds: 11804.
- T4851 *Physalis minima* (Solanaceae); TIAN PAO ZI; Little Groundcherry. Used part: whole herb or fruit. TCM Effects: To percolate damp and kill worms. TCM Indications: Jaundice, inhibited urination, chronic cough and asthma, *gan* disease, scrofula, heaven-borne sore, damp sore. Isolated compounds: 7187, 22716, 22717.
- T4852 *Physalis peruviana* (Solanaceae); DENG LONG CAO; Peruvian Groundcherry. Used part: whole herb. TCM Effects: To clear heat and move *qi*, disperse swelling and relieve pain. TCM Indications: Common cold, epidemic parotitis, throat pain, cough, abdominal distention, mounting *qi*, heaven-borne sore. Isolated compounds: 1563, 1567, 6731, 7214, 8637, 16858, 16995, 18390, 18391.
- T4853 *Physalis philadelphica* (Solanaceae); FEI CHENG SUAN JIANG; Philadelphia Groundcherry*. Isolated compounds: 1391, 1392, 1451, 1452, 1453, 1454, 1455, 1456, 3568, 5657, 5671, 5672, 10827, 11804, 21834, 22705, 22715.
- T4854 *Physalis pubescens* (Solanaceae); KU ZHI; Downy Groundcherry. Used part: herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Common cold, lung heat cough, swelling pain in throat, gum swelling, damp-heat jaundice, dysentery, edema, heat strangury, heaven-borne sore, clove sore. Isolated compounds: 17238.
- T4855 *Physeter catodon* (Physeteridae); LONG XIAN XIANG; Ammbergris. Used part: dried secretion in intestines of sperm whales. TCM Effects: To transform phlegm and calm asthma, move *qi* and dissipate binds, disinhibit water and free strangury. TCM Indications: *Qi* counterflow with cough and asthma, oppression in chest and *qi* bind, concretion conglomeration accumulation and gathering, pain in heart and abdomen, clouded spirit, strangury syndrome. Isolated compounds: 21046.
- T4856 *Physeter catodon* (Physeteridae); MO XIANG JING; Cachalot. Isolated compounds: 1026.
- T4857 *Physochlaina alaica* (Solanaceae); YI PAO NANG CAO; Winged Physochlaina*. Isolated compounds: 2218.
- T4858 *Physochlaina infundibularis* (Solanaceae); LOU DOU PAO NANG CAO; Funneled Physochlaina. Used part: root. TCM Effects: To dispel phlegm, relieve cough and calm asthma. TCM Indications: Cough and asthma with abundant phlegm. Isolated compounds: 2001.
- T4859 *Physochlaina physaloides* (Solanaceae); PAO NANG CAO; Common Physochlaina. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, dispel damp and kill worms (herb), warm center and supplement vacuity, quiet spirit and settle asthma (root). TCM Indications: Otitis media, nasosinusitis, swelling pain in throat, swelling toxin of sore and welling abscess, headache (herb), vacuity cold diarrhea, taxation damage, cough of phlegm asthma, disquieted heart spirit (root). Isolated compounds: 4417, 15416.
- T4860 *Physostigma venenosum* (Fabaceae); DU BIAN DOU; Deadly Calabarbean. Isolated compounds: 7379, 7380, 7381, 17253, 20369. *Phytolacca acinosa* = *Phytolacca esculenta*
- T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*] (Phytolaccaceae); MEI SHANG LU; American Pokeweed. Used part: root. TCM Effects: See *Phytolacca esculenta*. TCM Indications: See *Phytolacca esculenta*. Isolated compounds: 266, 1034, 1035, 1036, 2322, 7368, 7370, 7374, 8750, 11209, 11210, 11211, 14132, 16050, 16299, 16569, 16570, 17266, 17267, 17268, 17269, 17270, 17271, 17770, 18322, 20168, 22768, 22822. *Phytolacca decandra* = *Phytolacca americana*
- T4862 *Phytolacca dioica* (Phytolaccaceae); A GEN TING SHANG LU; Ombutree Pokeberry. Isolated compounds: 16093.
- T4863 *Phytolacca dodecandra* (Phytolaccaceae); SHI ER RUI SHANG LU; Decapitil Pokeweed*. Isolated compounds: 2179, 12621, 16044.
- T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (Phytolaccaceae); SHANG LU; Indian Pokeweed. Equivalent plant: *Phytolacca americana*. Used part: root. TCM Effects: To expel water and disperse swelling, disinhibit urine and free stool, resolve toxin and dissipate binds. TCM Indications: Edema distention fullness, urinary and fecal stoppage, swelling toxin of welling abscess and sore. Isolated compounds: 471, 545, 546, 547, 548, 7025, 7368, 7369, 7370, 7371, 7372, 7373, 7374, 9568, 11421, 11812.
- T4865 *Phytolacca icosandra* (Phytolaccaceae); ER SHI RUI SHANG LU; Icosandrous Pokeweed*. Isolated compounds: 19333, 19334, 19335,

- 19336, 19337, 19338, 19339, 19340, 19341.
- T4866 *Phytolacca octandra* (Phytolaccaceae); AO ZHOU SHANG LU; Octapistil Pokeweed*. Isolated compounds: 22903.
- T4867 *Phytolacca polyandra* (Phytolaccaceae); DUO XIONG RUI SHANG LU; Polyandrous Pokeweed. Isolated compounds: 4533.
- T4868 *Phytolacca* spp. (Phytolaccaceae). Isolated compounds: 12642, 17267.
- T4869 *Picea abies* (Pinaceae); OU ZHOU YUN SHAN; Common Spruce. Isolated compounds: 4140, 11673, 17278.
- T4870 *Picea glehnii* (Pinaceae); SA HA LIN YUN SHAN; Saghalin Spruce. Isolated compounds: 10583, 17283, 17409, 18643.
- T4871 *Picea jezoensis* (Pinaceae); RI BEN YU LIN SONG; Yeddo Spruce. Isolated compounds: 7145, 7166, 7169, 10702, 14091, 17409.
- T4872 *Picea jezoensis* var. *jezoensis* (Pinaceae); YU LIN YUN SHAN; Yeddo Spruce. Isolated compounds: 7167, 14090.
- T4873 *Picea koraiensis* (Pinaceae); HONG PI YUN SHAN; Korean Spruce. Used part: Branch-leaf and bark. TCM Effects: To expel wind and eliminate damp. TCM Indications: Wind-damp impediment pain. Isolated compounds: 5763.
- T4874 *Picea morrisonicola* (Pinaceae); TAI WAN YUN SHAN; Taiwan Spruce. Isolated compounds: 271, 16307, 17275, 17276, 17277.
- T4875 *Picea obovata* (Pinaceae); XI BO LI YA YUN SHAN; Siberian Spruce. Isolated compounds: 11314, 15360.
- T4876 *Picea sitchensis* (Pinaceae); XI TE KA YUN SHAN; Sitka Spruce. Isolated compounds: 17456.
- T4877 *Picea* sp. (Pinaceae). Isolated compounds: 1951, 3194, 13594, 15555.
- T4878 *Picea* spp. (Pinaceae). Isolated compounds: 17287.
- Picrasma ailanthoides* = *Picrasma quassioides*
- T4879 *Picrasma crenata* (Simaroubaceae); YUAN CHI KU MU; Crenate Quassia-wood*. Isolated compounds: 3096, 3158.
- T4880 *Picrasma excelsa* (Simaroubaceae); YA MAI JIA KU MU; Jamaica Quassia-wood. Isolated compounds: 15549, 15561.
- T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (Simaroubaceae); KU MU; Indian Quassia-wood. Used part: wood. TCM Effects: To clear heat and resolve toxin, dry damp and kill worms. TCM Indications: Infection of upper respiratory tract, pneumonia, acute gastroenteritis, dysentery, sore and boil, scab and lichen, eczema, burns and scalds, infection of biliary tract, poisonous insect stings. Isolated compounds: 344, 3096, 3156, 3158, 7908, 12334, 12335, 15454, 15542, 15546, 15547, 15552, 15554, 15555, 15561, 17327, 18299.
- T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (Simaroubaceae); KU SHU PI; Indian Quassia-wood Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, resolve toxin and kill worms. TCM Indications: Bacillary dysentery, infection of biliary tract, suppurative infection, scab and lichen, eczema, snake bite. Isolated compounds: 3096, 3156, 3158, 3159, 3160, 3161, 5418, 6152, 6257, 6297, 7433, 7459, 7898, 10479, 10584, 10770, 12332, 12333, 12334, 12335, 12373, 14211, 14218, 14520, 15454, 15542, 15543, 15544, 15545, 15546, 15547, 15548, 15550, 15551, 15552, 15553, 15554, 15555, 15556, 15557, 15558, 15559, 15560, 15561, 17298, 17299, 17300, 17301, 17302, 17303, 17305, 17306, 17307, 17308, 17309, 17310, 17311, 17312, 17313, 17314, 17315, 17316, 17317, 17318, 17319, 17320, 17321, 17322, 17323, 17324, 17325, 17326, 17327, 18299, 19900, 21407, 22516.
- T4883 *Picrasma* sp. (Simaroubaceae). Isolated compounds: 15454.
- T4884 *Picria felterrae* (Scrophulariaceae); KU XUAN SHEN; Common Bitterfigwort. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Wind-heat common cold, swelling pain in throat, mumps, swollen boil, diarrhea and dysentery, hemorrhoids, eczema, poisonous snake bites, knocks and falls. Isolated compounds: 4883, 9517, 17288, 17289, 17290, 17291, 17292, 17293, 17294, 17295, 21985.
- T4885 *Picris kamschatica* (Asteraceae); KAN CHA JIA MAO LIAN CAI; Kamchatka Oxtongue. Isolated compounds: 6143, 10012.
- T4886 *Picrodendron baccatum* JIANG GUO KU SHU. Isolated compounds: 17332, 17333, 17334, 17335, 17336.
- T4887 *Picrorhiza kurroa* (Scrophulariaceae); HU HUANG LIAN; Picrorhiza. Equivalent plant: *Picrorhiza scrophulariaeflora*. Used part: rhizome. TCM Effects: To lower vacuity heat, eliminate gan fever, clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Steaming bone tidal fever due to yin vacuity, night sweating, child gan accumulation, indigestion, abdominal distention and emaciation, dysentery, fever, gastrointestinal damp-heat diarrhea, hemorrhoids. Isolated compounds: 117, 1162, 1826, 1827, 5763, 7768, 9476, 9477, 12376, 13504, 14871, 16821, 16853, 17287, 17344, 17345, 17346, 22341, 22415.
- T4888 *Picrorhiza scrophulariiflora* (Scrophulariaceae); XI ZANG HU HUANG LIAN; Figwortflower Picrorhiza. Used part: rhizome. TCM Effects: See *Picrorhiza kurroa*. TCM Indications: See *Picrorhiza kurroa*. Isolated compounds: 1162, 2004, 3306, 3695, 6081, 7768, 7773, 9347, 10442, 13504, 17344, 17345, 17510, 17511, 17287, 17483, 17484, 17485, 19572, 19573, 22332.
- T4889 *Pieris formosa* (Ericaceae); MEI LI MA ZUI MU; Taiwan Pieris*. Isolated compounds: 17353, 17354, 17355, 17356, 17357.
- T4890 *Pieris japonica* (Ericaceae); RI BEN MA ZUI MU; Japanese Pieris. Used part: leaf. TCM Effects: To kill worms. TCM Indications: Scab sore. Isolated compounds: 1848, 1849, 1850, 8994, 17170.
- T4891 *Pilocarpus jaborandi* (Rutaceae); MAO GUO YUN XIANG. Isolated compounds: 17360.
- T4892 *Pimelea prostrata* (Thymelaeaceae); PING WO DAO HUA; Prostrate Rice-flower*. Isolated compounds: 17958.
- T4893 *Pimelea simplex* (Thymelaeaceae); DAN ZHI DAO HUA; Simplex Rice-flower*. Isolated compounds: 19902.
- T4894 *Pimenta dioica* (Myrtaceae); DUO XIANG GUO; Allspice. Isolated compounds: 3559, 7521.
- T4895 *Pimpinella anisum* (Apiaceae); HUI QIN; Anise. Isolated compounds: 1184, 1185, 1186, 1282, 4234, 5172, 7389, 7522, 9025, 9026, 9027, 9513, 9740, 9784, 9916, 10454, 10631, 10632, 10633, 10634, 10635, 14059, 14420, 14421, 14422, 14423, 14424, 14425, 14426, 14427, 14476, 14735.
- T4896 *Pimpinella aurea* (Apiaceae). Isolated compounds: 14603.
- T4897 *Pimpinella corymbosa* (Apiaceae). Isolated compounds: 14029, 17925.
- T4898 *Pimpinella isaurica* (Apiaceae). Isolated compounds: 14028, 14030, 14079, 17924, 17926.
- T4899 *Pimpinella magna* (Apiaceae); DA HUI QIN; Big Anise*. Isolated

- compounds: 11249, 17375.
- T4900 *Pimpinella saxifraga* (Apiaceae); HU ER CAO YE HUI QIN; Burnet-saxifrage. Isolated compounds: 11249, 17375.
- T4901 *Pimpinella* sp. (Apiaceae). Isolated compounds: 22195.
- T4902 *Pimpinella thelungiana* (Apiaceae); YANG HONG SHAN; Thellung Pimpinella. Used part: root or whole herb. TCM Effects: To boost *qi* and fortify spleen, nourish heart and quiet spirit, relieve cough and dispel phlegm. TCM Indications: Kersan disease, palpitation and shortness of breath, cough. Isolated compounds: 7406, 7407, 14003, 16895, 16896, 21308, 21309.
- T4903 *Pinellia pedatisecta* (Araceae); ZHANG YE BAN XIA; Pedate Pinellia. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 618, 4463, 4464, 4510, 4526, 7334, 10520, 10913, 11631, 14752, 14780, 14802, 16759, 16760, 17095, 17906, 17907, 19983, 22237, 22329.
- T4904 *Pinellia ternata* (Araceae); BAN XIA; Ternate Pinellia. Used part: tuber. TCM Effects: To eliminate damp and resolve cold phlegm, downbear counterflow and check vomiting, disperse glomus and dissipate binds. TCM Indications: Cough and asthma with abundant phlegm, vomiting nausea, glomus in chest, dizziness, headache, vexation and agitation in night, goiters with phlegm node, swelling toxin of welling abscess and flat abscess. Isolated compounds: 832, 1047, 1673, 1886, 2458, 3589, 3988, 4680, 5763, 6815, 8672, 8817, 9071, 9380, 9569, 9608, 13823, 14225, 14334, 15981, 16835, 16862, 17093, 17905, 17968, 19759, 19983, 19987, 21342, 21662, 22169, 22324.
- T4905 *Pinus aristata* (Pinaceae); CI GUO SONG; Bristlecone Pine. Isolated compounds: 3600.
- T4906 *Pinus armandii* (Pinaceae); HUA SHAN SONG; Armand Pine. Used part: leaf. TCM Effects: See *Pinus massoniana*. TCM Indications: See *Pinus massoniana*. Isolated compounds: 16316.
- T4907 *Pinus armandii* var. *masteriana* (Pinaceae); TAI WAN GUO SONG; Masters Pine. Isolated compounds: 17422.
- T4908 *Pinus bungeana* (Pinaceae); BAI PI SONG; Lacebark Pine. Used part: cone. TCM Effects: To dispel phlegm, relieve cough, calm asthma. TCM Indications: Chronic trachitis, asthma, cough and shortness of breath, abundant phlegm. Isolated compounds: 12843.
- T4909 *Pinus cembra* (Pinaceae); RUI SHI SHI SONG; Arolla Pine. Isolated compounds: 17403.
- T4910 *Pinus excelsa* (Pinaceae); QIAO GUI; Bhutan Pine. Isolated compounds: 3600.
- T4911 *Pinus kesiya* (Pinaceae); KA XI YA SONG; Khasya Pine. Isolated compounds: 17056.
- T4912 *Pinus koraiensis* (Pinaceae); HAI SONG ZI; Korean Pine Seed. Used part: seed. TCM Effects: To moisten dryness, nourish blood, dispel wind. TCM Indications: Dry cough due to lung dryness, vacuity constipation, joints wind, wind impediment. Isolated compounds: 711, 3194, 3385, 6293, 6482, 6937, 11314, 12455, 12843, 14285, 14548, 15332, 15735, 15736, 16555, 17390, 17426.
- T4913 *Pinus koraiensis* (Pinaceae); HONG SONG; Korean Pine. Isolated compounds: 17422.
- T4914 *Pinus laricio* (Pinaceae); KE XI JIA SONG; Corsican Pine. Isolated compounds: 7768.
- T4915 *Pinus maritime* (Pinaceae). Isolated compounds: 5699.
- T4916 *Pinus massoniana* (Pinaceae); MA WEI SONG YE; Masson Pine Leaf. Equivalent plant: *Pinus armandii*. Used part: leaf. TCM Effects: To dispel wind and dry damp, kill worms and relieve itch, quicken blood and quiet spirit. TCM Indications: Wind-damp impediment pain, beriberi, damp sore, lichen, wind papule itching, knocks and falls, neurasthenia, chronic nephritis, hypertension, prevention of influenza and encephalitis B. Isolated compounds: 10996, 13582, 13583, 13584, 13585, 13586, 13587, 13588, 17376.
- T4917 *Pinus massoniana* (Pinaceae); SONG XIANG; Colophony. Used part: residue left after distillation of turpentine oil from crude oleo-resin of various spp. of *Pinus*. TCM Effects: To dispel wind and dry damp, expel pus and draw out toxin, engender flesh and relieve pain. TCM Indications: Malign sores with welling abscess and flat abscess, scrofula, fistula, scab and lichen, bald white scalp sore, leprosy, impediment, incised wound, sprain, leukorrhea, thromboangitis obliterans (Buerger's disease), clove sore, hemorrhoids, itchy skin. Isolated compounds: 10, 15333, 16572.
- T4918 *Pinus monticola* (Pinaceae); JIA ZHOU SHAN SONG; Californian Mountain Pine. Isolated compounds: 3600.
- T4919 *Pinus palustris* (Pinaceae); CHANG YE SONG; Long-leaved Pine. Isolated compounds: 11600, 12955, 15805, 15806.
- T4920 *Pinus radiata* (Pinaceae); FU SHE SONG; Monterey Pine. Isolated compounds: 3767, 7751, 15663, 17055, 17888.
- T4921 *Pinus resinosa* (Pinaceae); DUO ZHI SONG; Red Pine. Isolated compounds: 9740.
- T4922 *Pinus rigida* (Pinaceae); GANG SONG; Northern Pitch Pine. Isolated compounds: 18641.
- T4923 *Pinus sibirica* (Pinaceae); XI BO LI YA HONG SONG; Siberian Stone Pine. Isolated compounds: 11314, 17422, 18643, 18650.
- T4924 *Pinus* sp. (Pinaceae). Isolated compounds: 1074, 1282, 5694, 12955, 15555, 17409, 17420, 17421, 18003.
- T4925 *Pinus* spp. (Pinaceae). Isolated compounds: 17399.
- T4926 *Pinus sylvestris* (Pinaceae); OU ZHOU CHI SONG; Scotch Pine. Isolated compounds: 1169, 7385, 21022.
- T4927 *Pinus taeda* (Pinaceae); TAI DA SONG; Loblolly Pine, Old Field Pine. Isolated compounds: 1655, 17888, 17890.
- T4928 *Piper aduncum* (Piperaceae); GOU ZHUANG HU JIAO; Hooked Pepper*. Isolated compounds: 1343, 6193, 6383, 17430, 17431, 17432.
- T4929 *Piper aequale* (Piperaceae); TE LI NI DA HU JIAO; Trinidad Pepper*. Isolated compounds: 5644, 6423, 14380.
- T4930 *Piper* aff. *pedicellatum* (Piperaceae). Isolated compounds: 2563.
- T4931 *Piper angustifolium* (Piperaceae); XIA YE HU JIAO; Matico Pepper. Isolated compounds: 1520, 1835.
- T4932 *Piper arboreum* (Piperaceae); QIAO MU HU JIAO; Arboreous Pepper*. Isolated compounds: 1612, 16388.
- T4933 *Piper attenuatum* (Piperaceae); LUAN YE HU JIAO; Ovateleaf Pepper. Isolated compounds: 17463, 17466.
- T4934 *Piper aurantiacum* (Piperaceae). Isolated compounds: 17449.
- T4935 *Piper banksii* (Piperaceae); BAN KE HU JIAO; Bank Pepper*. Isolated compounds: 6745.

- T4936 *Piper bavinum* (Piperaceae); XIAN MAI JU; Glandularnerve Pepper. Isolated compounds: 22628.
- T4937 *Piper betle* (Piperaceae); JU JIANG YE; Betel Pepper Leaf. Used part: leaf. TCM Effects: To course wind and dissipate cold, move *qi* and transform phlegm, resolve toxin and disperse swelling, dry damp and resolve itch. TCM Indications: Wind-cold cough, asthma, pertussis, distending pain in stomach duct, edema, wound swelling from knocks and falls, wind-damp bone pain, toxin swelling of sores, burns and scalds, wind toxin and beriberi, scab and *lai*, eczema titillation. Isolated compounds: 955, 2850, 3231, 3486, 3488, 7521, 7523.
- T4938 *Piper boehmeriaefolium* (Piperaceae); ZHU YE JU; Falsenettleleaf Pepper. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, dispel damp and free network vessels, move *qi* and relieve pain. TCM Indications: Common cold due to wind-cold, wind-damp impediment pain, stomachache, menstrual disorder [=menoxenia], knocks and falls, fracture. Isolated compounds: 15725, 17463, 17464, 17465, 17466.
- T4939 *Piper brachystachyum* (Piperaceae); DUAN SUI HU JIAO; Shortspike Pepper*. Isolated compounds: 2575, 2576, 2577, 17436.
- T4940 *Piper cenocladum* (Piperaceae). Isolated compounds: 3386, 5259, 17472.
- T4941 *Piper chaba* (Piperaceae). Isolated compounds: 4961, 11273, 11281, 14678, 16384, 17440, 17441, 17442, 17443, 17451, 17461, 18658.
- T4942 *Piper clarkii* (Piperaceae). Isolated compounds: 17447.
- T4943 *Piper crassinervium* (Piperaceae); CU YE MAI HU JIAO; Grossnerve Pepper*. Isolated compounds: 5859, 5860, 6041, 15279, 19172.
- T4944 *Piper cubeba* (Piperaceae); BI CHENG QIE; Cubeba Pepper. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, warm kidney. TCM Indications: Stomach cold with retching counterflow, distention fullness, cold pain in stomach duct and abdomen, rumbling intestines and diarrhea, cold mounting with abdominal pain, cold-damp dribbling urination and turbid urine. Isolated compounds: 1834, 1840, 2357, 3761, 3762, 3851, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 5543, 5561, 5572, 7114, 7400, 9343, 9471, 9949, 13391, 13640, 13898, 14264, 16340, 17447, 17448, 21345, 21928, 22989.
- T4945 *Piper elongatum* (Piperaceae); CHANG HU JIAO. Isolated compounds: 2835, 17427, 17428.
Piper futokadsura = *Piper kadsura*
- T4946 *Piper guineense* (Piperaceae); JI NEI YA HU JIAO; Ashanti Pepper. Isolated compounds: 5572, 16387, 17451.
- T4947 *Piper hamiltonii* (Piperaceae). Isolated compounds: 17463.
- T4948 *Piper hancei* (Piperaceae); SHAN JU; Hance Pepper. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling, move *qi* and relieve pain, transform stagnation and relieve pain. TCM Indications: Wind-cold-damp impediment, stomachache, dysmenorrhea, knocks and falls, wind-cold cough, mounting *qi*. Isolated compounds: 2760, 8035, 8040, 9208, 9209, 9210, 9211, 22628.
- T4949 *Piper hispidum* (Piperaceae); YING MAO HU JIAO; Hispid Pepper*. Isolated compounds: 11280, 14020, 17438.
- T4950 *Piper kadsura* [Syn. *Piper futokadsura*] (Piperaceae); HAI FENG TENG; Kadsura Pepper. Used part: stem. TCM Effects: To dispel wind-damp, free channels and network vessels, relieve pain due to impediment. TCM Indications: Wind-cold-damp impediment, aching sinews in limb joints, hypertonicity of sinews and vessels. Isolated compounds: 592, 1840, 3517, 5135, 6745, 8035, 8036, 8037, 8038, 8039, 8040, 8041, 8086, 8088, 8093, 11269, 12005, 12006, 12007, 12008, 12009, 12010, 12013, 13293, 13295, 17265, 17460, 19983, 20369, 22060, 22383, 23030.
- T4951 *Piper laetispicum* (Piperaceae); DA YE JU; Largeleaf Piper*. Used part: whole herb. TCM Effects: To quicken blood, disperse swelling, relieve pain. TCM Indications: Knocks and falls, static blood swelling pain. Isolated compounds: 12449.
- T4952 *Piper lhotzkyanum* (Piperaceae). Isolated compounds: 12157.
- T4953 *Piper longum* (Piperaceae); BI BA; Long Pepper. Used part: fruit-spike. TCM Effects: To warm center and dissipate cold, precipitate *qi* and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea, headache, toothache, deep-source nasal congestion, coronary heart disease, angina pectoris. Isolated compounds: 2284, 9083, 9485, 11269, 12574, 17450, 17451, 17461, 17471, 17472, 19777, 20523, 21078, 22227.
- T4954 *Piper longum* (Piperaceae); BI BA GEN; Long Pepper Root. Used part: root. TCM Effects: To warm center and move *qi*, downbear counterflow and disperse food, dissipate cold and relieve pain. TCM Indications: Taxation damage, genital sweating, node swelling, cold *qi* retching, distention fullness in heart and abdomen, food accumulation, cold mounting, infertility due to uterus cold, lumbus kidney cold. Isolated compounds: 14791, 17429, 17451, 17461, 17463, 17464, 17465, 17466, 17472.
- T4955 *Piper methysticum* (Piperaceae); KA WA HU JIAO; Kava Pepper. Isolated compounds: 2043, 4936, 5677, 7188, 12184, 13915, 14820, 17462, 22882.
- T4956 *Piper mullesua* (Piperaceae); DUAN JU; Globular Pepper. Used part: whole plant. TCM Effects: To expel wind and dissipate cold, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, numbness in limbs, externally contracted wind-cold, cough and asthma, cold pain in stomach duct and abdomen, knocks and falls, menstrual disorder, dysmenorrhea, postpartum abdominal pain, toothache, swelling pain of sore and boil, scalds, snake or insect bites. Isolated compounds: 15318, 15319.
- T4957 *Piper nigrum* (Piperaceae); HU JIAO; Black Pepper. Used part: fruit. TCM Effects: To warm center and dissipate cold, precipitate *qi*, disperse phlegm. TCM Indications: Vomiting with stomach cold, abdominal pain and diarrhea, inappetence, convulsion, epilepsy and profuse phlegm. Isolated compounds: 3487, 4288, 6465, 11269, 11270, 11271, 11272, 11274, 11282, 11283, 13723, 13724, 13726, 13727, 13770, 15446, 16306, 16318, 16319, 16325, 16382, 16383, 16384, 16385, 16386, 16387, 16388, 16389, 16390, 16391, 16392, 16393, 16405, 16406, 17401, 17434, 17435, 17436, 17437, 17438, 17438, 17439, 17444, 17445, 17449, 17451, 17451, 17456, 17468, 17469, 17470, 17473, 17474, 18657, 19371, 19378, 19788, 20991.
- T4958 *Piper nove-hollandae* (Piperaceae); XIN HE LAN HU JIAO; Novel-Holland Pepper*. Isolated compounds: 6193.
- T4959 *Piper peepuloides* (Piperaceae). Isolated compounds: 17424.

- T4960 *Piper peltatum* (Piperaceae); DUN YE HU JIAO; Peltateleaf Pepper*. Isolated compounds: 6379, 15505.
- T4961 *Piper polysyphorum* (Piperaceae); ZHANG YE HU JIAO; Camphortreeleaf Pepper. Isolated compounds: 8040, 17688, 22528, 22628.
- T4962 *Piper puberulum* (Piperaceae); MAO JU; Hairy Pepper. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold and eliminate damp, move *qi* and quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, wind-cold headache, pain in stomach duct and abdomen, mounting *qi* (hernia), menstrual pain, painful swelling from knocks and falls. Isolated compounds: 22628.
- T4963 *Piper regnelli* (Piperaceae). Isolated compounds: 10056, 10088, 14367, 14503.
- T4964 *Piper retrofractum* (Piperaceae); CHANG GUO BI BA; Petrofracted Pepper. Used part: fruit. TCM Effects: To warm center and fortify stomach, dispel cold and relieve pain. TCM Indications: Stomach cold pain, distention fullness in stomach duct. Isolated compounds: 2576, 17444, 18657, 18659, 18660, 21907.
- T4965 *Piper sarmentosum* (Piperaceae); JIA JU; Sarmentose Pepper. Used part: stem-leaf or whole herb. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain, quicken network vessels, disperse swelling. TCM Indications: Wind-cold cough, wind-damp impediment pain, distention fullness in stomach duct, diarrhea and dysentery, postpartum foot edema, knocks and falls. Isolated compounds: 957, 1832.
- T4966 *Piper sarmentosum* (Piperaceae); JIA JU ZI; Sarmentose Pepper Spike. Used part: fruit spike. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, transform damp and disperse swelling. TCM Indications: Distending pain in stomach duct, cold-damp diarrhea, wind-damp impediment pain, mounting *qi*, toothache, edema. Isolated compounds: 14382, 17130, 19368, 19369, 19370, 19371, 19378.
- T4967 *Piper solmsianum* (Piperaceae). Isolated compounds: 6348, 8979, 14384.
- T4968 *Piper* spp. (Piperaceae); *Piper* spp. Isolated compounds: 10792.
- T4969 *Piper sulvaticum* (Piperaceae); CHANG BING HU JIAO; Longstalk Pepper*. Isolated compounds: 17472.
- T4970 *Piper taiwanense* (Piperaceae); TAI WAN HU JIAO; Taiwan Pepper*. Isolated compounds: 955, 1695, 2891, 3408, 3694, 3723, 6216, 6466, 7521, 10416, 17463, 17464, 17465, 17467, 22615.
- T4971 *Piper trichostachyon* (Piperaceae); MAO SUI HU JIAO; Hairspike Pepper*. Isolated compounds: 4536, 17435.
- T4972 *Piper tuberculatum* (Piperaceae); LIU TU HU JIAO; Tuberculate Pepper*. Isolated compounds: 1612, 5695, 16388, 17439, 21904, 21908.
- T4973 *Piper umbellatum* (Piperaceae); SAN XING HU JIAO; Umbellate Pepper*. Isolated compounds: 6379, 15505.
- T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*] (Piperaceae); SHI NAN TENG. Used part: stem-leaf or whole herb. TCM Effects: To dispel wind-damp, strengthen lumbus and knees, supplement kidney and invigorate *yang*, relieve cough and calm asthma, quicken blood and relieve pain. TCM Indications: Wind-cold-damp impediment, aching in lumbus and knees, impotence, cough and asthma, dysmenorrhea, painful swelling from knocks and falls. Isolated compounds: 22628.
Piper wallichii var. *hupehense* = *Piper wallichii*
Piptanthus mongolicus = *Ammopiptanthus mongolicus*
- T4975 *Piptanthus nanus* (Fabaceae); XIAO SHA DONG QING; Small *Piptanthus**. Used part: stem-leaf. TCM Effects: See *Ammopiptanthus mongolicus*. TCM Indications: See *Ammopiptanthus mongolicus*. Isolated compounds: 16206.
- T4976 *Piptanthus nepalensis* (Fabaceae); HUANG HUA MU; Greenleaf *Piptanthus*, Evergreen Laburnum. Used part: seed. TCM Effects: To clear liver and brighten eyes, moisten intestines and free stool. TCM Indications: Headache due to externally contracted wind-heat, conjunctivitis, hypertension, chronic constipation. Isolated compounds: 4604, 8278, 8282, 20099.
- T4977 *Piscidia erythrina* YA MAI JIA DU YU DOU; *Piscidia erythrina*. Isolated compounds: 17479, 17481, 17482.
- T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*] (Sclerodermataceae); DOU BAO JUN; Dye-maker's False Puffball. Used part: sporocarp. TCM Effects: To stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Stomach and esophagus hemorrhage, bleeding due to external injury, frostbite flowing water and pus. Isolated compounds: 15717, 17492.
- T4979 *Pistacia chinensis* (Anacardiaceae); HUANG LIAN YA; Chinese Pistache. Used part: leaf and bud. TCM Effects: To clear summerheat, engender liquid, resolve toxin, disinhibit damp. TCM Indications: Summerheat-heat thirst, swelling pain in throat, oral ulcer, vomiting and dysentery, strangury syndrome, innominate toxin swelling, sore and papules. Isolated compounds: 5613, 5614, 5699, 7802, 8095.
- T4980 *Pistacia lentiscus* (Anacardiaceae); XIANG HUANG LIAN MU; Mastic-tree. Isolated compounds: 17055.
- T4981 *Pistacia terebinthus* (Anacardiaceae); RU DU XIANG; Turpentine Tree. Isolated compounds: 6502, 10363, 13591, 14979.
- T4982 *Pistacia vera* (Anacardiaceae); A YUE HUN ZI; Common Pistache. Used part: fruit. TCM Effects: To warm kidney, warm spleen. TCM Indications: Kidney vacuity lumbar cold, impotence, spleen vacuity cold dysentery. Isolated compounds: 4439.
- T4983 *Pisum sativum* (Fabaceae); WAN DOU; Garden Pea. Used part: seed. TCM Effects: To harmonize center and precipitate *qi*, free milk and disinhibit water, resolve toxin. TCM Indications: Cholera cramp, beriberi with edema, diabetes mellitus, vomiting of sour matter, abdominal distention and diarrhea, scant breast milk, swollen welling abscess. Isolated compounds: 36, 2845, 7996, 8377, 9620, 10165, 12097, 15708, 17477, 17493, 17494, 17495, 17913, 18281, 18398, 19432, 19982, 21662, 22466, 22782, 22815.
- T4984 *Pisum* sp. (Fabaceae). Isolated compounds: 1048.
- T4985 *Pithecolobium dulce* (Fabaceae); NIU TI DOU; Guamachil Apea-earring. Used part: leaf. TCM Effects: To disperse swelling and dispel damp. Isolated compounds: 20169.
- T4986 *Pithomyces chartarum*. Isolated compounds: 20234.
- T4987 *Pittosporum tobira* (Pittosporaceae); HAI TONG; Japanese Pittosporum. Used part: fruit. TCM Indications: mounting pain. Isolated compounds: 13955, 13956, 13957.
- T4988 *Pityrogramma triangularis* (Hemionitidaceae); SAN JIAO FEN YE JUE; Goldback Fern. Isolated compounds: 9423, 21711.

- T4989 *Plagiochasma intermedium* (Grimaldiaceae); WU WEN ZI BEI TAI; Intermediate Plagiochasma. Isolated compounds: 7426.
- T4990 *Plagiochasma rupestre* (Grimaldiaceae); ZI BEI TAI; Argentine Liverwort. Isolated compounds: 19069.
- T4991 *Plagiochila acanthophylla* ssp. *japonica* (Plagiochilaceae); RI BEN DUO CI YU TAI. Isolated compounds: 17500.
- T4992 *Plagiochila asplenioides* (Plagiochilaceae); TIE JIAO JUE YU TAI. Isolated compounds: 1754, 2406, 2407, 6957, 15139, 17498, 17499, 17503, 19679.
- T4993 *Plagiochila carringtonii* (Plagiochilaceae). Isolated compounds: 17496, 17497.
- T4994 *Plagiochila deltoidea* (Plagiochilaceae). Isolated compounds: 7194, 9923, 18915.
- T4995 *Plagiochila rutilans* (Plagiochilaceae). Isolated compounds: 6382, 7461, 7479, 10389, 13917, 14031, 14032, 14076, 14077.
- T4996 *Plagiochila siophila* (Plagiochilaceae). Isolated compounds: 17500.
- T4997 *Plagiogyria dunnii* (Plagiogyriaceae); DAO YE LIU ZU JUE; Dunn's Plagiogyria. Isolated compounds: 17502.
- T4998 *Plagiogyria euphlebica* (Plagiogyriaceae); HUA ZHONG LIU ZU JUE; Fine-nerved Plagiogyria. Used part: rhizome or whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Influenza. Isolated compounds: 17501.
- T4999 *Plagiogyria matsumureana* (Plagiogyriaceae). Isolated compounds: 17501, 17502.
- T5000 *Plagiogyria stenoptera* (Plagiogyriaceae); ER XING LIU ZU JUE; Auriform Plagiogyria. Used part: rhizome or whole herb. TCM Effects: To clear heat and resolve toxin, effuse exterior and relieve cough. TCM Indications: Common cold with headache, cough. Isolated compounds: 17501.
- T5001 *Planchonia grandis* (Sapotaceae); GAO DA SHAN LAN. Isolated compounds: 12057, 12058, 12079.
- T5002 *Plantago asiatica* (Plantaginaceae); CHE QIAN; Asiatic Plantain. Equivalent plant: *Plantago major*, *Plantago depressa*. Used part: whole herb. TCM Effects: To clear heat and disinhibit urine, cool blood, resolve toxin. TCM Indications: Heat bind in bladder, inhibited urination [=dysuria], strangury-turbidity and vaginal discharge, summerheat-damp diarrhea, bloody urine (hematuria), spontaneous external bleeding, swelling toxin of welling abscess and sore. Isolated compounds: 580, 617, 2004, 7426, 9331, 9363, 9617, 10351, 11195, 11529, 12725, 16050, 17505, 17505, 17506, 17507, 17508, 17509, 17510, 17511, 17512, 18219, 18526, 19983, 20255, 20369, 20446, 22270.
- T5003 *Plantago cornuti* (Plantaginaceae); JIAO ZHUANG CHE QIAN; Cornuted Plantain*. Isolated compounds: 250.
- T5004 *Plantago depressa* (Plantaginaceae); PING CHE QIAN; Depressed Plantain. Used part: whole herb. TCM Effects: See *Plantago asiatica*. TCM Indications: See *Plantago asiatica*. Isolated compounds: 617, 2004, 3052, 16050, 22270.
- T5005 *Plantago hostifolia* (Plantaginaceae); YU ZAN YE CHE QIAN; Jadehairpin-leaf Plantain*. Isolated compounds: 17510.
- T5006 *Plantago lanceolata* (Plantaginaceae); CHANG YE CHE QIAN; Buckhorn Plantain. Isolated compounds: 580, 2004, 5277, 5278, 12577, 12725, 13580, 17510, 18219.
- T5007 *Plantago major* (Plantaginaceae); DA CHE QIAN; Rippleseed Plantain. Used part: whole herb. TCM Effects: See *Plantago asiatica*. TCM Indications: See *Plantago asiatica*. Isolated compounds: 250, 580, 1892, 2004, 2102, 2106, 3040, 3551, 3674, 3695, 4135, 7768, 7996, 8081, 8307, 9486, 9818, 10351, 11805, 12891, 12952, 13137, 13406, 13656, 15203, 15363, 16050, 17506, 17513, 18219, 19187, 19587, 19983, 20369, 20566, 22170, 22270.
- T5008 *Platanus* sp. (Platanaceae). Isolated compounds: 5283, 5613.
- T5009 *Platanus* spp. (Platanaceae). Isolated compounds: 17399.
- T5010 *Platycarya strobilacea* (Juglandaceae); HUA XIANG SHU YE; Dyetree Leaf. Used part: leaf. TCM Effects: To resolve toxin and cure sores, kill worms and relieve itch. TCM Indications: Swelling toxin of sore and welling abscess, purulence due to bone welling abscess, intractable lichen, scrotal eczema, tinea capitis. Isolated compounds: 6757, 8095, 11903, 20389.
Platyclusus orientalis = *Thuja orientalis*
- T5011 *Platycodon grandiflorum* (Campanulaceae); JIE GENG; Balloonflower. Used part: root. TCM Effects: To diffuse lung, dispel phlegm, disinhibit throat, expel pus. TCM Indications: Cough with profuse phlegm, swelling pain in throat, pulmonary welling abscess with hacking of pus and blood, fullness in chest and rib-side pain, dysentery, dribbling urinary block. Isolated compounds: 487, 488, 2331, 4799, 4800, 8711, 14468, 14549, 14604, 14681, 17529, 17530, 17531, 17532, 17533, 17534, 17535, 17536, 17537, 17538, 17539, 17540, 17541, 17542, 17543, 17544, 17545, 17628, 17629, 17630, 20168, 20169.
- T5012 *Platypodia granulosa*. Isolated compounds: 19431.
- T5013 *Platystemon* spp. Isolated compounds: 3498.
- T5014 *Plectranthus nummularius* (Lamiaceae); YUAN BAN XIANG CHA CAI; Nummulite Rabdosia*. Isolated compounds: 16680, 16681, 17553, 17554.
Plectranthus striatus = *Isodon lophanthoides*
- T5015 *Pleiocarpa mutica* (Apocynaceae); DUO GUO SHU. Isolated compounds: 12268.
- T5016 *Pleiocarpa pycnantha* var. *tubicina* (Apocynaceae); CU SHENG HUA DUO GUO SHU. Isolated compounds: 12268.
- T5017 *Pleiocarpa tubicina* (Apocynaceae); LA BA ZHUANG DUO GUO SHU. Isolated compounds: 12120, 12268.
- T5018 *Pleuropterus ciliinervis* (Polygonaceae); MAO MAI LIAO. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, cool blood, quicken blood. TCM Indications: infection of upper respiratory tract, tonsillitis, acute bacillary dysentery, acute enteritis, infection of urinary system, various hemorrhage, knocks and falls, menstrual disorder, wind-damp impediment pain, heat toxin sores, burns. Isolated compounds: 13250, 13253, 17283, 17285, 17352, 17559, 18643.
- T5019 *Pleurospermum govianum* var. *bicolor* (Apiaceae); SHUANG SE SUO ZI QIN; Twocoloured Pleurospermum. Isolated compounds: 17763.
- T5020 *Pleurospermum lindleyanum* (Apiaceae); TIAN SHAN LING ZI QIN; Lindley Pleurospermum. Isolated compounds: 10216.
- T5021 *Pleurospermum rivulorum* (Apiaceae); YUN NAN QIANG HUO; Yunnan Pleurospermum. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain. TCM

- Indications:** Wind-cold common cold, wind-cold-damp impediment, hypertonicity of sinews and vessels, headache, pain in stomach duct and abdomen. **Isolated compounds:** 8326, 9420, 11001, 11445, 13571, 22774, 22775.
- T5022 *Pleurotus eryngii* (Pleurotaceae). **Isolated compounds:** 192, 5884, 5885, 6898, 6900, 6905, 7251, 21729.
- T5023 *Plocamium cartilagineum* (Plocamiaceae); RUAN GU HAI TOU HONG. **Isolated compounds:** 17650, 17651, 17652, 17653.
- T5024 *Plocamium corallorrhiza* (Plocamiaceae); SHAN HU GEN HAI TOU HONG. **Isolated compounds:** 2619, 2625, 17563, 17564, 17565, 21545.
- T5025 *Pluchea sericea* (Asteraceae); JUAN MAO KUO BAO JU; Sericeous Pluchea*. **Isolated compounds:** 260, 10529.
- T5026 *Plumbagella micrantha* (Plumbaginaceae); JI WA CAO; Littleflower Plumbagella. **Used part:** herb. **TCM Effects:** To kill worms and relieve itch, decay wart and mole. **TCM Indications:** Neurodermatitis, psoriasis, tinea capitis, goose-foot wind, foot lichen, wart. **Isolated compounds:** 17568.
- T5027 *Plumbago europaea* (Plumbaginaceae); OU ZHOU LAN MO LI; European Leadwort*. **Isolated compounds:** 17568.
- T5028 *Plumbago indica* (Plumbaginaceae); ZI XUE HUA; Indian Leadwort. **Used part:** Stem-leaf or flower. **TCM Effects:** To break blood and free menstruation, disperse swelling and relieve pain, dispel wind and kill worms. **TCM Indications:** Amenorrhea, dysmenorrhea, wind-damp impediment pain, sprain from knocks and falls, swelling toxin of welling abscess and sore, scab and lichen. **Isolated compounds:** 17568.
- T5029 *Plumbago zeylanica* (Plumbaginaceae); BAI HUA DAN; Whiteflower Leadwort. **Used part:** whole herb and root. **TCM Effects:** To dispel wind and eliminate damp, move *qi* and quicken blood, resolve toxin and disperse swelling. **TCM Indications:** Wind-damp impediment pain, liver spleen enlargement, amenorrhea due to blood stasis, sprain from knocks and falls, swollen welling abscess and scrofula, scab and lichen with itching, poisonous snake bite. **Isolated compounds:** 2402, 3541, 3569, 8712, 8713, 11790, 17567, 17568.
- T5030 *Plumeria bicolor* (Apocynaceae); SHUANG SE JI DAN HUA; Twocoloured Frangipani*. **Isolated compounds:** 523, 10760.
- T5031 *Plumeria obtusa* (Apocynaceae); DUN XING JI DAN HUA; Obtuse Frangipani*. **Isolated compounds:** 3468, 3469, 3470, 3471, 15911, 22964.
- T5032 *Plumeria rubra* (Apocynaceae); HONG JI DAN HUA; Frangipani. **Isolated compounds:** 17571.
- T5033 *Poa sphondylodes* (Lamiaceae); LONG XU CAO; Hard Bluegrass. **Used part:** aerial parts. **TCM Effects:** To clear heat and resolve toxin, disinhibit urine and free strangury. **TCM Indications:** Dribbling and inhibited voidings of urination, yellow-water sore. **Isolated compounds:** 1113, 1823, 7759, 7951, 8789.
- T5034 *Podanthus mitiqui* (Compositae); MI TI BING HUA JU. **Isolated compounds:** 16278.
- T5035 *Podanthus ovatifolius* (Compositae); BING HUA JU. **Isolated compounds:** 16278.
- T5036 *Podocarpus andina* (Podocarpaceae); ZHI LI LUO HAN SONG; Chile Podocarpus*. **Isolated compounds:** 17586.
- T5037 *Podocarpus elongatu* (Podocarpaceae); HAO WANG JIAO LUO HAN SONG; Cape of Good Hope Podocarpus. **Isolated compounds:** 2379.
- T5038 *Podocarpus ferrugineu* (Podocarpaceae); XIN XI LAN LUO HAN SONG; New Zealand Podocarpus*. **Isolated compounds:** 18971.
- T5039 *Podocarpus gracilior* (Podocarpaceae); XI LUO HAN SONG; Musengerra Podocarpus. **Isolated compounds:** 17591.
- T5040 *Podocarpus hallii* (Podocarpaceae); HA SHI LUO HAN SONG; Hall Podocarpus*. **Isolated compounds:** 9196, 9197, 15231.
- T5041 *Podocarpus imbricatus* (Podocarpaceae); JI MAO SONG; Imbricate Podocarpus. **Isolated compounds:** 4289, 6679, 9543, 9818, 15668, 17588, 18864, 18866.
- T5042 *Podocarpus macrophyllus* (Podocarpaceae); LUO HAN SONG SHI; Longleaf Podocarpus Seed. Equivalent plant: *Podocarpus macrophyllus* var. *maki*. **Used part:** seed and floral receptacle. **TCM Effects:** To move *qi* and relieve pain, warm center and supplement blood. **TCM Indications:** Blood vacuity, withered-yellow facial complexion, pain in heart and stomach. **Isolated compounds:** 2850, 9543, 11113, 11114, 11115, 11116, 11117, 11118, 11119, 11128, 13411, 15231, 15233, 15234, 17700.
- T5043 *Podocarpus macrophyllus* (Podocarpaceae); LUO HAN SONG YE; Longleaf Podocarpus Leaf. Equivalent plant: *Podocarpus macrophyllus* var. *maki*. **Used part:** branch-leaf. **TCM Effects:** To stanch bleeding. **TCM Indications:** Blood ejection, hemoptysis. **Isolated compounds:** 3185, 6679, 9543, 12176, 12620, 13317, 13410, 13411, 13412, 15373, 17588, 17589, 17596, 17700, 21476.
- T5044 *Podocarpus macrophyllus* var. *maki* (Podocarpaceae); DUAN YE LUO HAN SONG SHI; Chinese Podocarpus Seed. **Used part:** seed and floral receptacle. **TCM Effects:** See *Podocarpus macrophyllus*. **TCM Indications:** See *Podocarpus macrophyllus*. **Isolated compounds:** 2850, 17700.
- T5045 *Podocarpus macrophyllus* var. *maki* (Podocarpaceae); DUAN YE LUO HAN SONG YE; Chinese Podocarpus Leaf. **Used part:** branch-leaf. **TCM Effects:** See *Podocarpus macrophyllus*. **TCM Indications:** See *Podocarpus macrophyllus*. **Isolated compounds:** 17700.
- T5046 *Podocarpus montanus* (Podocarpaceae); SHAN DI LUO HAN SONG; Mountain Podocarpus*. **Isolated compounds:** 1030.
Podocarpus nagi = *Myrica nagi*
- T5047 *Podocarpus nakaii* (Podocarpaceae); TAI WAN LUO HAN SONG; Nakai Podocarpus. **Isolated compounds:** 17699, 17700, 17701, 17702.
- T5048 *Podocarpus neriifolius* (Podocarpaceae); BAI RI QING; Thitmin. **Isolated compounds:** 17590.
- T5049 *Podocarpus nivalis* (Podocarpaceae); GAO SHAN LUO HAN SONG; Alpine Totara. **Isolated compounds:** 15231.
- T5050 *Podocarpus nubigenus* (Podocarpaceae); YUN WU LUO HAN SONG; Manio. **Isolated compounds:** 15231.
- T5051 *Podocarpus philippinensis* (Podocarpaceae); FEI LV BIN LUO HAN SONG; Philippine Podocarpus. **Isolated compounds:** 15229.
- T5052 *Podocarpus polystachyus* (Podocarpaceae); DUO SUI LUO HAN SONG SHI; Manyspike Podocarpus Seed. **Isolated compounds:** 15229.
- T5053 *Podocarpus purdieana* (Podocarpaceae); PU ER DI LUO HAN SONG; Purdie Podocarpus*. **Isolated compounds:** 15231.
- T5054 *Podocarpus* sp. (Podocarpaceae). **Isolated compounds:** 15233, 17583, 18003.

- T5055 *Podocarpus spicatus* (Podocarpaceae); SUI HUA LUO HAN SONG; Matai. Isolated compounds: 13594.
- T5056 *Podolepis longipedata*. Isolated compounds: 16409.
- T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (Berberidaceae); TAO ER QI; Common Sinopodophyllum. Used part: root and rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough and dispel phlegm. TCM Indications: Wind-damp impediment pain, knocks and falls, menstrual disorder, dysmenorrhea, pain in stomach duct and abdomen, cough. Isolated compounds: 1372, 4962, 5011, 5074, 5078, 5091, 5092, 5093, 5094, 11608, 14400, 17110, 17337, 17339, 17340, 17341, 17592, 17593, 17594, 17595, 19889.
Podophyllum emodii var. *chinense* = *Podophyllum emodii*
- T5058 *Podophyllum peltatum* (Berberidaceae); DUN YE GUI JIU; Common Mayapple. Isolated compounds: 16793, 16794, 16795, 16796, 16797, 17337, 17347, 17592, 17593, 17594, 17595.
Podophyllum sikkimensis = *Podophyllum emodii*
- T5059 *Pogostemon cablin* [Syn. *Mentha cablin*] (Lamiaceae); GUANG HUO XIANG; Cablin Potchouli. Used part: aerial parts. TCM Effects: To transform damp aromatically, increase appetite and check vomiting, effuse exterior and resolve summerheat. TCM Indications: Summerheat-damp lassitude, oppression in chest, vomiting diarrhea with abdominal pain, deep-source nasal congestion and headache. Isolated compounds: 928, 1476, 1485, 1492, 2222, 2943, 3241, 3242, 3693, 4875, 6741, 6928, 7521, 7730, 9031, 9032, 9033, 9041, 9042, 9088, 9727, 9728, 9729, 14111, 14177, 16092, 16498, 16704, 16706, 16707, 16711, 16712, 16929, 17601, 17602, 18679, 19793, 22311.
- T5060 *Polanisia dodecandra* (Capparidaceae); SHI ER RUI CHOU SHI CAI; Dodecapistil Spiderflower*. Isolated compounds: 17603.
- T5061 *Polianthes tuberosa* (Amaryllidaceae); WAN XIANG YU; Tuberose. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 696, 1570, 1571, 3553, 3584, 8661, 9254, 9255, 9256, 17611, 17612, 17613, 17614, 17615, 17616, 21383, 21385, 21387, 22286, 22826.
- T5062 *Pollia endiviifolia* (Commelinaceae). Isolated compounds: 16984.
- T5063 *Polyalthia acuminata* (Annonaceae). Isolated compounds: 15711.
- T5064 *Polyalthia cheliensis* (Annonaceae); JING HONG AN LUO; Jinghong Greenstar. Isolated compounds: 246.
- T5065 *Polyalthia longifolia* (Annonaceae); CHANG YE AN LUO; India Greenstar. Isolated compounds: 12714, 17619.
- T5066 *Polyalthia longifolia* var. *pendula* (Annonaceae); BIAN ZHONG CHANG YE AN LUO; Indian Greenstar Variety*. Isolated compounds: 917, 11750, 12257, 16799, 16800, 16802, 20372.
- T5067 *Polyalthia nemoralis* (Annonaceae); LING SHUI AN LUO; Nemicolous Greenstar*. Used part: root. TCM Effects: To fortify spleen and boost stomach, supplement kidney and secure essence. TCM Indications: Center vacuity with stomachache, inappetence, kidney vacuity and emission. Isolated compounds: 23002.
- T5068 *Polyalthia suberosa* (Annonaceae); AN LUO; Suberous Greenstar. Isolated compounds: 12116.
- T5069 *Polycarpon prostratum* (Caryophyllaceae); DUO JIA CAO; Manyseed. Isolated compounds: 17959, 17960, 17961, 17962.
- T5070 *Polygala amarella* (Polygalaceae); KU WEI YUAN ZHI; Bitter Milkwort*. Isolated compounds: 20940, 20941, 20942, 20943, 20944, 20946, 20947, 20948, 20949, 20950, 20951, 20952, 20953, 20954, 20957, 20958.
- T5071 *Polygala arillata* (Polygalaceae); HUANG HUA YUAN ZHI; Yellowflower Milkwort. Used part: root. TCM Effects: To dispel phlegm and eliminate damp, fortify spleen and supplement vacuity, quiet heart and quicken blood. TCM Indications: Cough with profuse phlegm, wind-damp impediment pain, dribbling pain of urination, edema, beriberi, hepatitis, tuberculosis, postpartum vacuity weakness, inappetence, child *gan* accumulation, insomnia and frequent dreaming, menstrual disorder, knocks and falls. Isolated compounds: 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 6009, 6031, 10423, 17636, 18606, 20369, 20372.
Polygala aureocauda = *Polygala fallax*
- T5072 *Polygala caudata* (Polygalaceae); SHUI HUANG YANG MU; Caudate Milkwort. Used part: root. TCM Effects: To clear heat and disinhibit damp, relieve cough and transform phlegm. TCM Indications: Swelling pain in throat, damp-heat jaundice, bronchitis. Isolated compounds: 4143, 17621.
- T5073 *Polygala chinensis* [Syn. *Polygala glomerata*] (Polygalaceae); DA JIN NIU CAO; Chinese Milkwort. Used part: whole herb with root. TCM Effects: To dispel phlegm, disperse accumulation, dissipate stasis, resolve toxin. TCM Indications: Cough and sore pharynx, child *gan* accumulation, knocks and falls, scrofula, swollen welling abscess, poisonous snake bite. Isolated compounds: 1622, 1623, 3530, 3531, 3532, 3540, 8582, 8583, 8584, 8585, 8586, 8587, 9323, 12082, 15184, 20445.
- T5074 *Polygala emodi* (Polygalaceae); XI MA LA YA YUAN ZHI; Himalayan Milkwort*. Isolated compounds: 5074.
- T5075 *Polygala fallax* [Syn. *Polygala aureocauda*] (Polygalaceae); JIA HUANG HUA YUAN ZHI; Faslé Yellowflower Milkwort*. Used part: root or stem-leaf. TCM Effects: To supplement vacuity and fortify spleen, free network vessels and dissipate stasis. TCM Indications: Taxation fatigue and hypodynamia, prolapse of uterus, child *gan* accumulation, spleen vacuity edema, sparse vaginal discharge, wind-damp impediment pain, lumbago, menstrual disorder, dysmenorrhea, knocks and falls. Isolated compounds: 6009, 6031, 7711, 7712, 7713, 10044, 10422, 16109, 17637, 17638.
- T5076 *Polygala fruticosa* (Polygalaceae); GUAN MU YUAN ZHI; Shrubby Milkwort*. Isolated compounds: 7973.
Polygala glomerata = *Polygala chinensis*
- T5077 *Polygala macradenia* (Polygalaceae); DA XIAN YUAN ZHI; Macradenous Milkwort*. Isolated compounds: 5074.
- T5078 *Polygala nitida* (Polygalaceae); GUANG LIANG YUAN ZHI; Shining Milkwort*. Isolated compounds: 18609, 18610.
- T5079 *Polygala paenea* (Polygalaceae); PEI NI YUAN ZHI; Paene Milkwort*. Isolated compounds: 5074.
- T5080 *Polygala peltatum* (Polygalaceae); ZU YE CAO; Peltate Milkwort*. Isolated compounds: 5074.
- T5081 *Polygala polygama* (Polygalaceae); KU YUAN ZHI; Racemed Milkwort. Isolated compounds: 5093.

- T5082 *Polygala reinii* (Polygalaceae); SHI YE CAO; Reini Milkwort*. Isolated compounds: 18603, 18604, 18605, 18606, 18607, 18608, 18611, 18612.
- T5083 *Polygala sabulosa* (Polygalaceae); SHA DI YUAN ZHI; Sandland Milkwort*. Isolated compounds: 13919, 14014, 14015, 14018, 14019, 14021, 17840, 17976.
- T5084 *Polygala senega* (Polygalaceae); MEI YUAN ZHI; Senega Snakeroot. Isolated compounds: 16104, 19715, 19724, 19725, 19726, 19727, 19728, 19729, 20168.
- T5085 *Polygala senega* var. *latifolia* (Polygalaceae); KUAN YE MEI YUAN ZHI; Broadleaf Milkwort*. Isolated compounds: 19716, 19717, 19718, 19719, 19720, 19721, 19722, 19723.
- T5086 *Polygala sibirica* (Polygalaceae); XI BO LI YA YUAN ZHI; Siberian Milkwort. Used part: root. TCM Effects: See *Polygala tenuifolia*. TCM Indications: See *Polygala tenuifolia*. Isolated compounds: 1682, 1683, 12468, 17631, 19855, 19856, 19857, 19863, 19864, 19865, 19866.
- T5087 *Polygala telephioides* (Polygalaceae); XIAO HUA YUAN ZHI; Smallflower Milkwort. Used part: whole herb with root. TCM Effects: To dispel phlegm, relieve cough, dissipate stasis, resolve toxin. TCM Indications: Cough, cough with inhibited phlegm, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore, poisonous snake bites. Isolated compounds: 20907, 20908, 20909.
- T5088 *Polygala tenuifolia* (Polygalaceae); YUAN ZHI; Thinleaf Milkwort. Equivalent plant: *Polygala sibirica*. Used part: root. TCM Effects: To quiet heart and spirit, dispel phlegm and open orifices, resolve toxin and disperse swelling. TCM Indications: Pharyngitis, disquieted heart spirit, fright palpitation and insomnia, amnesia, fright epilepsy, cough with profuse phlegm, effusion of back from welling abscess and flat abscess, painful swollen breast. Isolated compounds: 402, 3156, 3158, 5842, 6011, 6165, 6299, 8743, 9234, 10045, 10756, 10804, 14320, 15752, 16103, 16104, 16105, 16108, 16874, 16968, 17632, 17633, 17634, 17635, 17636, 20939, 20940, 20941, 20942, 20943, 20944, 20945, 20955, 20956, 20957, 20958, 20959, 20960, 20961, 20962, 21902.
- T5089 *Polygala vulgaris* (Polygalaceae); PU TONG YUAN ZHI; Common Milkwort*. Isolated compounds: 3573, 6164, 6213, 19916.
- T5090 *Polygala wattersii* (Polygalaceae); CHANG MAO ZI YUAN ZHI; Longhair Milkwort. Used part: root or leaf. TCM Effects: To resolve toxin, dissipate stasis. TCM Indications: Mammary welling abscess, innominate toxin swelling, knocks and falls. Isolated compounds: 22639, 22640, 22641, 22642, 22643, 22644, 22645, 22646, 22647, 22648.
- T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*] (Liliaceae); DUO HUA HUANG JING; Manyflower Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum sibiricum*. TCM Indications: See *Polygonatum sibiricum*. Isolated compounds: 2057, 5350, 5351, 9620.
- T5092 *Polygonatum kingianum* (Liliaceae); DIAN HUANG JING; King Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum sibiricum*. TCM Indications: See *Polygonatum sibiricum*. Isolated compounds: 7413, 11544, 12228.
Polygonatum multiflorum = *Polygonatum cyrtonema*
- T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*] (Liliaceae); YU ZHU; Fragrant Solomonseal. Equivalent plant: *Polygonatum prattii*. Used part: rhizome. TCM Effects: To nourish *yin* and moisten dryness, engender liquid and allay thirst. TCM Indications: Lung stomach *yin* damage, dry cough, dry throat, diabetes mellitus due to internal heat. Isolated compounds: 2057, 4005, 10134, 17624, 17625, 17626, 17627, 22650.
Polygonatum officinale = *Polygonatum odoratum*
- T5094 *Polygonatum prattii* (Liliaceae); KANG DING YU ZHU; Pratt Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum odoratum*. TCM Indications: See *Polygonatum odoratum*. Isolated compounds: 17768.
- T5095 *Polygonatum sibiricum* (Liliaceae); HUANG JING; Siberian Solomonseal. Equivalent plant: *Polygonatum kingianum*, *Polygonatum cyrtonema*. Used part: rhizome. TCM Effects: To nourish *yin* and moisten lung, supplement spleen and boost *qi*, enrich kidney and replenish essence. TCM Indications: *Yin* vacuity taxation cough, lung heat dry cough, fatigue hypodynamia due to spleen vacuity, reduced food intake with dry mouth, diabetes mellitus, limp aching lumbus and knees due to kidney *yin* vacuity, impotence and emission, tinnitus and dim vision, premature graying in beard and hair, vacuity and marked emaciation, wind *lai* lichen. Isolated compounds: 5896, 13507, 15450, 17676, 17677, 17678, 17679, 17680, 17681.
- T5096 *Polygonatum zanlanscianense* (Liliaceae); HU BEI HUANG JING; Hubei Landpick. Isolated compounds: 6437, 8968, 10374, 11555, 11556, 16670, 17643, 17644, 17645, 17646, 17654.
- T5097 *Polygonum amphibium* (Polygonaceae); LIANG QI LIAO; Amphibious Knotweed. Used part: herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Edema in lower limb, dysentery, hematuria, tidal fever, vacuity and profuse sweating, clove sore, innominate toxin swelling. Isolated compounds: 2039.
- T5098 *Polygonum aviculare* (Polygonaceae); BIAN XU; Common Knotgrass. Used part: dried aerial parts. TCM Effects: To disinhibit urine and free strangury, kill worms, relieve itch. TCM Indications: Urethritis, lithiasis, chyluria, dysentery, parotitis, heat strangury, short voidings of reddish urine, dripping with inhibited pain, eczema, pudendal itch, vaginal discharge, ascariasis. Isolated compounds: 2039, 2040, 2887, 3551, 8095, 15181, 18317, 18411, 18680, 19542.
- T5099 *Polygonum bistorta* (Polygonaceae); QUAN SHEN; Bistort. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling, stanch bleeding. TCM Indications: Red dysentery, heat diarrhea, lung heat cough, swollen welling abscess, scrofula, mouth sore, tongue sores, blood ejection, spontaneous external bleeding, bleeding from hemorrhoids, poisonous snake bite. Isolated compounds: 5519, 6853, 8095, 8109.
- T5100 *Polygonum chinense* (Polygonaceae); HUO TAN MU CAO; Chinese Knotweed. Used part: herb. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin, calm liver and brighten eyes, soothe sinews and quicken blood. TCM Indications: Diarrhea, dysentery, swelling pain in throat, diphtheria, lung heat cough, pertussis, hepatitis, vaginal discharge, swollen welling abscess, otitis media, eczema, dizziness and tinnitus, corneal nephelium, knocks and falls. Isolated compounds: 12062, 19794.

- T5101 *Polygonum cuspidatum* (Polygonaceae); HU ZHANG; Japanese Fleeceflower. Used part: rhizome. TCM Effects: To lower cholesterol, quicken blood and dissipate stasis, dispel wind and free network vessels, clear heat and disinhibit damp, resolve toxin. TCM Indications: Hyperlipemia, impediment pain in joints, damp-heat jaundice, toxic jaundice, child jaundice, amenorrhea, hepatitis, appendicitis, candida vaginitis, concretion and conglomeration, cough with profuse phlegm, burns and scalds, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 1362, 1363, 1367, 1476, 3308, 3315, 3615, 3674, 3765, 5762, 5763, 5964, 6087, 6360, 6776, 6778, 7710, 8095, 8622, 9043, 10419, 10432, 11483, 13254, 13832, 17247, 17251, 17283, 18317, 18407, 18411, 18416, 18417, 18643, 18759, 21157, 21453, 22060.
- T5102 *Polygonum cuspidatum* (Polygonaceae); HU ZHANG YE; Japanese Fleeceflower Leaf. Used part: leaf. TCM Effects: To dispel wind-damp, resolve heat toxin. TCM Indications: Painful joints due to rheumatism, snake bite, lacquer sore. Isolated compounds: 2039, 3766, 10887, 11642, 13419, 18411, 19087, 20715.
Polygonum cymosum = *Fagopyrum cymosum*
Polygonum flaccidum = *Polygonum hydropiper* var. *flaccidum*
- T5103 *Polygonum hydropiper* (Polygonaceae); LIAO SHI; Red-knees Fruit. Used part: fruit. TCM Effects: To transform damp and disinhibit water, break stasis and dissipate binds, resolve toxin. TCM Indications: Vomiting diarrhea with abdominal pain, edema, inhibited urination [=dysuria], concretion and accumulation with glomus distention, swollen welling abscess and sores, scrofula. Isolated compounds: 11403, 17642.
- T5104 *Polygonum hydropiper* (Polygonaceae); SHUI LIAO; Red-knees. Used part: herb. TCM Effects: To move stagnation and transform damp, stanch bleeding and dissipate stasis, dispel wind and relieve itch, resolve toxin. TCM Indications: Damp-stagnation obstructing internally, diarrhea, dysentery, enteritis, child *gan* accumulation, flooding and spotting, amenorrhea due to blood stasis, dysmenorrhea, knocks and falls, wind-damp impediment pain, hematochezia, bleeding due to external injury, itchy skin, eczema, wind papules, foot lichen, swollen welling abscess, poisonous snake bite. Isolated compounds: 3971, 9737, 11403, 11609, 11610, 16884, 16990, 16991, 17640, 17641, 17647, 17648, 17649, 18281, 18399, 18411, 20659, 22310, 22638.
- T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*] (Polygonaceae); LA LIAO; Flaccid Knotweed. Used part: whole herb. TCM Effects: To resolve toxin, eliminate damp, dissipate stasis, stanch bleeding. TCM Indications: Dysentery, diarrhea, nipple moth, malaria, wind-damp impediment pain, painful swelling from knocks and falls, flooding and spotting [=metrorrhagia and metrorrhagia], swollen welling abscess and clove sores, scrofula, poisonous snake bites, eczema, foot lichen. Isolated compounds: 16991, 17647.
- T5106 *Polygonum lapathifolium* (Polygonaceae); YU LIAO; Dockleaved Knotweed. Used part: whole herb. TCM Effects: To resolve toxin, eliminate damp, quicken blood. TCM Indications: Swelling pain of sores, scrofula, diarrhea, dysentery, eczema, *gan* accumulation, wind-damp impediment pain, knocks and falls, menstrual disorder. Isolated compounds: 1187, 9737, 12049, 12504, 12505, 12506, 12507, 12508, 13653, 14017, 18360, 22309, 22330.
- T5107 *Polygonum multiflorum* (Polygonaceae); HE SHOU WU; Tuber Fleeceflower. Used part: tuberoid. TCM Effects: To lower cholesterol, enrich *yin* and nourish blood, moisten intestines and free stool, interrupt malaria, dispel wind, resolve toxin. TCM Indications: Backache, neurasthenia, hyperlipemia, neurosis, insomnia, dizziness due to anemia, palpitation, limp aching lumbus and knees due to liver kidney *yin* vacuity, premature graying in beard and hair, tinnitus, emission, intestinal dry and constipation, enduring malaria, wind papule itching, sore and welling abscess, scrofula, hemorrhoids. Isolated compounds: 3598, 3615, 5863, 6776, 7788, 9043, 13833, 17247, 17283, 17639, 17877, 18416, 18643, 18759, 19983, 21154, 21156, 21157, 21159.
- T5108 *Polygonum multiflorum* (Polygonaceae); YE JIAO TENG; Tuber Fleeceflower Stem. Used part: stem. TCM Effects: To nourish heart and quiet spirit, dispel wind and free network vessels. TCM Indications: Insomnia, frequent dreaming, anemia and generalized pain, muscle numbness, wind-damp impediment pain, wind papule itching. Isolated compounds: 17247, 18416.
- T5109 *Polygonum nodosum* (Polygonaceae); JIE LIAO; Pale Persicaria. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, quicken blood and dissipate stasis. TCM Indications: Swelling of sores, *yin* flat abscess, scrofula, poisonous snake bite, toothache, summerheat stroke, dysentery, knocks and falls, bleeding due to external injury. Isolated compounds: 12049, 17399, 18360.
- T5110 *Polygonum orientale* (Polygonaceae); HONG CAO; Prince's-feather. Used part: herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, quicken blood, interrupt malaria. TCM Indications: Infections, rheumatic arthritis, malaria, mounting *qi*, beriberi, swelling of sores. Isolated compounds: 9616, 16196, 17515.
- T5111 *Polygonum perfoliatum* (Polygonaceae); GANG BAN GUI GEN; Perfoliate Knotweed Root. Used part: root. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Mouth-level nape sore, hemorrhoids and fistulas. Isolated compounds: 6776, 11014.
- T5112 *Polygonum perigrinatoris* (Polygonaceae); NI A LUO. Used part: rhizome. TCM Effects: To astringe intestines and check dysentery. TCM Indications: Dysentery, diarrhea. Isolated compounds: 16925.
- T5113 *Polygonum persicaria* (Polygonaceae); TAO YE LIAO; Spring Knotweed. Used part: herb. TCM Effects: To effuse sweat and remove damp, disperse food, kill worms. TCM Indications: Wind-cold common cold, wind-cold-damp impediment, food damage diarrhea, intestinal parasitic disease. Isolated compounds: 11642, 16884, 18281.
- T5114 *Polygonum polystachyum* (Polygonaceae); DUO SUI LIAO; Many-spike Knotweed. Used part: herb. TCM Effects: To clear heat and resolve toxin, dispel wind and disinhibit damp. TCM Indications: Dysentery, diarrhea, child indigestion, wind-damp impediment pain, knocks and falls. Isolated compounds: 2039, 11642, 18317, 18342, 18411, 18674.
- T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*] (Polygonaceae); XI BO LI YA LIAO [yn; Siberian Knotweed*]. Used part: rhizome. TCM Effects: To course wind and clear heat, disinhibit water and disperse edema. TCM Indications: Red eyes with gall, damp itchy skin, edema, ascites (hydroperitoneum). Isolated compounds: 15450.

- T5116 *Polygonum* sp. (Polygonaceae). Isolated compounds: 19087.
- T5117 *Polygonum* spp. (Polygonaceae). Isolated compounds: 17399.
- T5118 *Polygonum suffultum* (Fabaceae); HONG SAN QI; Ovateleaf Knotweed. Used part: rhizome. TCM Effects: To stanch bleeding and relieve pain, quicken blood and regulate menstruation, clear heat and eliminate damp. TCM Indications: Painful wound from knocks and falls, bleeding due to external injury, blood ejection, hematochezia, flooding and spotting, red and white vaginal discharge, damp-heat dysentery, welling abscess. Isolated compounds: 19987.
- T5119 *Polygonum thunbergii* (Polygonaceae); SHUI MA TIAO; Thunberg Knotweed. Used part: herb. TCM Effects: To dispel wind and clear heat, quicken blood and relieve pain. TCM Indications: Headache due to externally contracted wind-heat, cough, sand, dysentery, painful wound from knocks and falls, tuberculosis and hemoptysis. Isolated compounds: 4446, 13240, 16990, 18411.
- T5120 *Polygonum tinctorium* (Polygonaceae); LIAO LAN GUO; Indigoplant Fruit. Used part: fruit. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Warm disease ardent fever, blood ejection, spontaneous external bleeding, macular eruption, swelling pain in throat, swollen boil, innominate toxin swelling, bee sting, insect bites. Isolated compounds: 18287, 22059.
- T5121 *Polygonum tinctorium* (Polygonaceae); LIAO LAN YE; Indigoplant Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and disperse macula. TCM Indications: Warm disease fever, macular eruption and papules, blood ejection, spontaneous external bleeding, throat impediment, heat dysentery, jaundice, erysipelas, epidemic parotitis, mouth sore, swollen welling abscess. Isolated compounds: 11014, 11023, 11024, 18287, 21799.
- T5122 *Polygonum viscosum* (Polygonaceae); ZHAN MAO LIAO; Viscidhairy Knotweed. Used part: branch-leaf. TCM Effects: To rectify *qi* and remove damp, fortify stomach and disperse food. TCM Indications: Stomach *qi* pain, indigestion, child *gan* accumulation, wind-damp pain. Isolated compounds: 6147, 18353, 22535.
- T5123 *Polypodium glycyrrhiza* (Polypodiaceae); TIAN GEN DUO ZU JUE; Sweetroot Polypody*. Isolated compounds: 17663.
- T5124 *Polypodium niponicum* (Polypodiaceae); SHUI LONG GU; Japanese Polypody. Used part: rhizome. TCM Effects: To clear heat and disinhibit damp, quicken blood and free network vessels. TCM Indications: Opacity of urine, diarrhea, strangury, wind-damp impediment pain, knocks and falls. Isolated compounds: 3773, 4468, 4503, 4885, 6678, 6679, 7758, 7978, 9638, 9639, 9641, 9642, 10066, 14355, 14434, 15064, 15065, 15066, 15067, 15729, 15730, 15731, 15732, 16029, 16030, 16037, 16038, 16251, 16426, 17584, 17585, 17618, 19767, 20698, 20709.
Polypodium punctatum = *Hypolepis punctata*
- T5125 *Polypodium* spp. (Polypodiaceae). Isolated compounds: 15064.
- T5126 *Polypodium virginianum* (Polypodiaceae); DONG BEI DUO ZU JUE; North-east Polypody*. Used part: rhizome. TCM Effects: See *Polypodium vulgare*. TCM Indications: See *Polypodium vulgare*. Isolated compounds: 15729, 15730, 19767.
- T5127 *Polypodium vulgare* (Polypodiaceae); DUO ZU JUE; Common Polypody. Equivalent plant: *Polypodium virginianum*. Used part: rhizome. TCM Effects: To clear heat, resolve toxin and disinhibit damp. TCM Indications: Damp-heat strangury pain, wind-damp-heat impediment, swollen welling abscess, sore and boil, wind papule itching, knocks and falls. Isolated compounds: 3551, 6678, 9638, 9642, 10062, 12999, 13419, 14235, 15729, 15730, 16116, 17660, 17662, 17663.
Polyporus cinnabarinus = *Trametes cinnabarina*
- T5128 *Polyporus ellisii* (Polyporaceae); AI LI SI DUO KONG JUN; Ellisii Porous Agaric*. Isolated compounds: 3421, 6904, 20154.
Polyporus fomentarius = *Fomes fomentarius*
Polyporus pinicola = *Fomitopsis pinicola*
- T5129 *Polyporus umbellatus* (Polyporaceae); ZHU LING; Popyporus Agaric. Used part: sclerotium. TCM Effects: To disinhibit water and percolate damp, anticancer. TCM Indications: Inhibited urination, edema, ascites, carcinoma of lung, carcinoma of esophagus, diarrhea, strangury-turbidity, vaginal discharge. Isolated compounds: 7247, 7250, 17665, 17666, 17667, 17668, 17669, 17670, 17671.
- T5130 *Polyscias amplifolia* (Araliaceae); DA YE NAN YANG SHEN; Bigleaf Polyscias*. Isolated compounds: 8054, 8065, 17622, 17623.
- T5131 *Polyscias murrayi* (Araliaceae); MO LEI NAN YANG SHEN; Murri Polyscias*. Isolated compounds: 6091, 10638, 17169.
- T5132 *Polystichum fauriei* (Aspidiaceae); FU RUI ER JUE; Faurie Shield Fern*. Isolated compounds: 17660.
- T5133 *Polytrichum commune* (Polytrichaceae); JIN FA XIAN; Common Gold-hair Moss*. Used part: frond. TCM Effects: To enrich *yin* and clear heat, cool blood and stanch bleeding. TCM Indications: Steaming bone tidal fever due to *yin* vacuity, night sweating, tuberculosis with cough, blood ejection due to blood heat, spontaneous external bleeding, hemoptysis, hematochezia, flooding and spotting. Isolated compounds: 14806.
- T5134 *Polytrichum ohioense* (Polytrichaceae); DUO XING JIN FA XIAN; Polymorphism Gold-hair Moss*. Isolated compounds: 16019, 16020, 16021, 16022, 16023.
- T5135 *Polytrichum pollidisetum* (Polytrichaceae); CANG MAO JIN FA XUAN; Dark-hair Gold-hair Moss*. Isolated compounds: 16548, 16549.
- T5136 *Pometia ridleyi* (Sapindaceae); LI DE LI FAN LONG YAN; Ridley Pometia*. Isolated compounds: 17689, 17690, 17691, 17692, 17693, 17694.
- T5137 *Poncirus trifoliata* (Rutaceae); GOU JU; Trifoliolate-orange. Used part: unripe fruit. TCM Effects: To break *qi* and dissipate binds, course liver and resolve depression. TCM Indications: Binding depression of liver *qi*, mammary consumption, mounting *qi*, *qi* stagnation, distention fullness in stomach duct and abdomen, pain in stomach duct, constipation, prolapse of uterus, prolapse of rectum. Isolated compounds: 933, 1497, 3241, 3242, 9458, 11611, 15286, 15882, 17705, 19784, 20002, 22775.
- T5138 *Poncirus trifoliata* (Rutaceae); GOU JU HE; Trifoliolate-orange Seed. Used part: seed. TCM Effects: To stanch bleeding. TCM Indications: Incessant intestinal wind bleeding. Isolated compounds: 2010, 9419, 13846.
- T5139 *Poncirus trifoliata* (Rutaceae); GOU JU YE; Trifoliolate-orange Leaf. Used part: leaf. TCM Effects: To rectify *qi* and dispel wind, dissipate binds and disperse swelling. TCM Indications: Dysphagia-occlusion,

- stomach reflux, vomiting, globus hystericus, mounting *qi*. Isolated compounds: 1497, 17705.
- T5140 *Poncirus trifoliata* (Rutaceae); GOU JU ZHI KE; Trifoliolate-orange Unripe Fruit. Used part: unripe fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 15286.
- T5141 *Poncirus trifoliata* (Rutaceae); GOU JU ZHI SHI; Trifoliolate-orange Young Fruit. Used part: young fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 9420, 14796, 15286, 15404, 17704.
- T5142 *Poncirus trifoliata* (Rutaceae); ZHI GEN PI; Trifoliolate-orange Root-bark. Used part: root cortex. TCM Effects: To constrain blood, relieve pain. TCM Indications: Toothache, hemorrhoids, hematochezia. Isolated compounds: 5134, 19784.
- T5143 *Pongamia pinnata* (Fabaceae); SHUI LIU DOU; Poongaoil Pongamia. Used part: seed. TCM Effects: To dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Scab and *lai*, lichen, suppurative sore. Isolated compounds: 1408, 1409, 1410, 1413, 2334, 2857, 3071, 3072, 3335, 5962, 6228, 6245, 6246, 6247, 8124, 10029, 10407, 12163, 13097, 13098, 13908, 14074, 14075, 15950, 17398, 17708, 17709, 17710, 17711, 17712, 17714, 17715, 17716, 17753, 20280, 20372, 21916.
- T5144 *Populus adenopoda* (Salicaceae); XIANG YE YANG; Chinese Aspen. Used part: root cortex, bark or leaf. TCM Effects: To dispel wind and relieve pain, quicken blood and free network vessels. TCM Indications: Wind-damp impediment pain, paralysis in limbs, decayed toothache, static blood pain due to injury. Isolated compounds: 19184, 19192.
- T5145 *Populus alba* (Salicaceae); YIN BAI YANG; White Aspen. Used part: leaf. TCM Effects: To relieve cough and calm asthma, clear heat and resolve phlegm. TCM Indications: Cough and asthma. Isolated compounds: 3600, 19184, 19192.
- T5146 *Populus alba* var. *pyramidalis* (Salicaceae); XIN JIANG YANG; Sinkiang Poplar*. Isolated compounds: 3600, 19184, 19192.
- T5147 *Populus balsamifera* (Salicaceae); ZHI YANG; Balsam Poplar. Isolated compounds: 115, 2414.
- T5148 *Populus beijingensis* (Salicaceae); BEI JING YANG; Beijing Poplar. Isolated compounds: 3600, 19184, 19192.
- T5149 *Populus canadensis* (Salicaceae); JIA YANG; Canada Poplar. Equivalent plant: *Populus cathayana*. Used part: male inflorescence. TCM Effects: To clear heat and resolve toxin, transform damp and check dysentery. TCM Indications: Bacteriogenic dysentery, enteritis. Isolated compounds: 3600, 19184.
- T5150 *Populus cathayana* (Salicaceae); QING YANG; Green Poplar. Used part: male inflorescence. TCM Effects: See *Populus canadensis*. TCM Indications: See *Populus canadensis*. Isolated compounds: 19184, 19192.
- T5151 *Populus davidiana* (Salicaceae); SHAN YANG; Wild poplar. Used part: bark. TCM Effects: To dispel wind and quicken blood, clear heat and disinhibit damp, expel worms. TCM Indications: Wind impediment, beriberi, static blood from knocks and falls, dysentery, lung heat cough, mouth sore, toothache, dribbling urination, ascariasis. Isolated compounds: 165, 3600, 19184, 19192, 20899.
- T5152 *Populus heterophylla* (Salicaceae); YI YE YANG; Swamp Cottonwood. Isolated compounds: 21508.
- T5153 *Populus hopeiensis* (Salicaceae); HE BEI YANG; Hebei Poplar. Isolated compounds: 19184, 19192.
- T5154 *Populus koreana* (Salicaceae); XIANG YANG; Korea Poplar. Isolated compounds: 19184, 19192.
- T5155 *Populus lasiocarpa* (Salicaceae); DA YE YANG; Bigleaf Poplar. Isolated compounds: 19184.
- T5156 *Populus nigra* var. *thevestina* (Salicaceae); JIAN GAN YANG; Arrowshaft Poplar. Used part: bark or leaf. TCM Effects: To dispel wind and eliminate damp, cool blood and resolve toxin. TCM Indications: Wind-damp impediment pain, leg *qi* with edema, hepatitis, dysentery, burns and scalds, scab and lichen with bald sores. Isolated compounds: 19184.
- T5157 *Populus pseudo-simonii* (Salicaceae); XIAO QING YANG; False Simon Poplar. Used part: bark. TCM Effects: To resolve toxin. TCM Indications: Stubborn lichen with sore toxin. Isolated compounds: 3600, 19184, 19192.
- T5158 *Populus simonii* (Salicaceae); XIAO YE YANG; Simon Poplar. Used part: bark. TCM Effects: To dispel wind and quicken blood, clear heat and disinhibit damp. TCM Indications: Wind-damp impediment pattern, painful swelling from knocks and falls, lung heat cough, dribbling urination, mouth sore, toothache, dysentery, leg *qi*, ascariasis. Isolated compounds: 19184.
- T5159 *Populus* sp. (Salicaceae). Isolated compounds: 3600, 3695, 17828, 19184, 20556.
- T5160 *Populus* spp. (Salicaceae). Isolated compounds: 2890, 17720.
- T5161 *Populus tomentosa* (Salicaceae); MAO BAI YANG; Chinese White Poplar. Used part: bark or twig. TCM Effects: To clear heat and disinhibit damp, relieve cough and transform phlegm. TCM Indications: Hepatitis, dysentery, strangury-turbidity, cough of phlegm asthma. Isolated compounds: 1485, 3600, 17720, 19184, 19192, 21510.
- T5162 *Populus tremula* (Salicaceae); OU ZHOU SHAN YANG; Aspen. Isolated compounds: 21508.
- T5163 *Populus tremuloides* (Salicaceae); CHAN YANG; American Aspen. Isolated compounds: 2284, 17089, 21508, 21510.
- T5164 *Populus trichocarpa* (Salicaceae); MAO GUO YANG; Black Cottonwood. Isolated compounds: 21557.
- T5165 *Populus ussuriensis* (Salicaceae); DA QING YANG; Ussuri Poplar. Isolated compounds: 19184, 19192.
- T5166 *Populus xiaohei* (Salicaceae); XIAO HEI YANG; Slamm Black Poplar. Isolated compounds: 3600, 19184, 19192.
- T5167 *Porana racemosa* (Convolvulaceae); FEI E TENG; Racemose Porana. Used part: whole herb or root. TCM Effects: To resolve exterior, move *qi*, quicken blood, resolve toxin. TCM Indications: Common cold due to wind-cold, food stagnation abdominal distention, innominate toxin swelling. Isolated compounds: 11132.
- T5168 *Porella acutifolia* ssp. *tosana* (Porellaceae); SHANG ZUO JIAN YE GUANG E TAI. Isolated compounds: 600, 601, 2352, 2429, 2430, 2431, 2432, 2433, 2434, 6741, 7089, 10650, 10651, 16407, 16979, 22311.
- T5169 *Poria cocos* (Polyporaceae); FU LING; Indian Bread. Used part: sclerotium. TCM Effects: To disinhibit water and percolate damp,

- fortify spleen and quiet heart. TCM Indications: Neurasthenia, disquieted heart spirit, fright palpitation and insomnia, insomnia, pelvic inflammation, edema, scant urine with edema, phlegm-rheum dizziness, reduced food intake due to spleen vacuity, sloppy stool and diarrhea, chronic diarrhea. Isolated compounds: 478, 617, 1112, 3140, 3589, 4874, 4909, 4978, 6544, 6674, 6889, 7250, 9486, 9758, 9823, 10070, 10311, 12569, 16496, 16497, 17387, 17664, 17722, 17723, 17724, 17725, 17726, 17727, 17728, 21502, 22108, 22109, 22218.
- T5170 *Porphyra* sp. (Bangiaceae). Isolated compounds: 16345.
- T5171 *Porphyra tenera* (Bangiaceae); ZI CAI; Laver. Used part: thallospore. TCM Effects: To transform phlegm and soften hardness, clear heat and disinhibit urine. TCM Indications: Goiter and tuberculosis, beriberi, edema, strangury, swelling pain in throat, cough, diarrhea. Isolated compounds: 3237, 6721, 8011, 12900, 12901, 13126, 15528, 16884, 20998.
- T5172 *Portulaca grandiflora* (Portulacaceae); DA HUA MA CHI XIAN; Largeflower Purslane. Used part: herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis. TCM Indications: Swelling pain in throat, sore and boil, eczema, painful swelling from knocks and falls, burns and scalds, bleeding due to external injury. Isolated compounds: 2319, 2320, 2322, 9662, 11018, 11250, 11252, 17733, 17734, 17735, 17736, 17737, 17738, 17739, 17740.
- T5173 *Portulaca oleracea* (Portulacaceae); MA CHI XIAN; Purslane. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Heat toxin blood dysentery, acute bacillary dysentery, pertussis, enteritis, appendicitis, swollen welling abscess and clove sores, eczema, erysipelas, bleeding, postpartum bleeding, hematochezia, bleeding from hemorrhoids, flooding and spotting, ascariasis, ancylostomiasis, snake or insect bites. Isolated compounds: 6558, 6559, 11250, 11252, 15708, 16074, 16075, 16076, 16077, 16078.
- T5174 *Portulaca pilosa* (Portulacaceae); MAO MA CHI XIAN; Pilose Purslane*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Damp-heat dysentery, sore and boil. Isolated compounds: 11250, 11252, 17364, 17365, 22624.
- T5175 *Potamogeton lucens* (Potamogetonaceae); GUANG YE YAN ZI CAI; Glabrousleaf Pondweed. Isolated compounds: 8680, 8700, 10546.
- T5176 *Potamogeton natans* (Potamogetonaceae); FU YE YAN ZI CAI; Floatingleaf Pondweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel damp and disinhibit water. TCM Indications: Red eyes with gall, swelling toxin of sore and welling abscess, jaundice, edema, bleeding from hemorrhoids, ascariasis. Isolated compounds: 187, 5875, 5876, 7183, 7184, 10087, 11699, 17742, 18815.
- T5177 *Potamogeton pectinatus* (Potamogetonaceae); BI CHI YAN ZI CAI; Fennelleaf Pondweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Lung heat cough, sore and boil. Isolated compounds: 7049, 7161, 8641, 10298, 12409, 14405, 14408.
- T5178 *Potamogeton perfoliatus* (Potamogetonaceae); SUAN SHUI CAO; Thorowort Pondweed. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp. TCM Indications: Eczema, itchy skin. Isolated compounds: 13126, 15477, 22520.
- T5179 *Potentilla anserina* (Rosaceae); E RONG WEI LING CAI; Silverweed Cinquefoil. Used part: tuberoid. TCM Effects: To supplement *qi* and blood, fortify spleen and stomach, engender liquid and allay thirst. TCM Indications: Blood vacuity during convalescence, *gan* accumulation, edema, spleen vacuity diarrhea, wind-damp impediment pain. Isolated compounds: 6853.
- T5180 *Potentilla atrosanguinea* (Rosaceae); AN HONG WEI LING CAI; Darksanguine Cinquefoil*. Isolated compounds: 4446.
- T5181 *Potentilla chinensis* (Rosaceae); WEI LING CAI; Chinese Cinquefoil. Used part: whole herb with root. TCM Effects: To cool blood and check dysentery, clear heat and resolve toxin. TCM Indications: Red dysentery and abdominal pain, enduring dysentery, bleeding hemorrhoids, swelling toxin of sore and welling abscess. Isolated compounds: 8095, 12020, 18317, 22270.
- T5182 *Potentilla discolor* (Rosaceae); FAN BAI CAO; Discolor Cinquefoil. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Cough and asthma due to lung heat, diarrhea dysentery, malaria, hacking of blood, blood ejection, bloody stool, flooding and spotting [=metrorrhagia and metrostaxis], swelling toxin of welling abscess and sore, scrofula. Isolated compounds: 13374.
- T5183 *Potentilla griffithii* var. *velutina* (Rosaceae); CHANG ROU MAO WEI LING CAI; Velutinous Cinquefoil. Used part: root. TCM Effects: To rectify *qi* and disperse food, promote contraction and stanch bleeding, clear heat and quicken blood. TCM Indications: Food accumulation stomachache, gastric ulcer, duodenal ulcer, child *gan* accumulation, dysentery, incessant postpartum bleeding, infant fright wind, facial paralysis. Isolated compounds: 21392.
- T5184 *Potentilla kleiniana* (Rosaceae); SHE HAN WEI LING CAI; Klein Cinquefoil. Used part: whole herb with root. TCM Effects: To clear heat and settle fright, interrupt malaria, relieve cough and transform phlegm, quicken blood and resolve toxin. TCM Indications: Ardent fever with fright wind, malaria, lung heat cough, pertussis, dysentery, toxin swelling of sores, swelling pain in throat, wind-fire toothache, zoster, red eyes with gall, snake or insect bites, rheumatism numbness, knocks and falls, menstrual disorder, bleeding due to external injury. Isolated compounds: 759, 17750.
- T5185 *Potentilla multifida* (Rosaceae); DUO LIE WEI LING CAI; Many-cleft Cinquefoil. Used part: whole herb with root. TCM Effects: To stanch bleeding, disinhibit damp heat, kill worms. TCM Indications: Bleeding due to external injury, flooding and spotting [=metrorrhagia and metrostaxis], hepatitis, oxyuria disease. Isolated compounds: 10943, 22617.
- T5186 *Potentilla reptans* var. *sericophylla* (Rosaceae); JIN JIN BANG; Sericeous Cinquefoil. Used part: root. TCM Effects: To engender liquid and allay thirst, enrich *yin* and remove heat. TCM Indications: Vacuity taxation with fever, vacuity asthma, febrile diseases fluid damage, thirst with dry throat, turbid vaginal discharge. Isolated compounds: 18347.
- T5187 *Potentilla* spp. (Rosaceae). Isolated compounds: 16765.
- T5188 *Potentilla viscosa* (Rosaceae); NIAN WEI LING CAI; Viscose

- Cinquefoil*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stem desertion. TCM Indications: Enteritis, dysentery, pneumonia, prolapse of uterus. Isolated compounds: 17884.
- T5189 *Pothos chinensis* (Araceae); SHI GAN ZI; Chinese Pothos. Used part: whole herb. TCM Effects: To move *qi* and relieve pain, disperse accumulation, dispel wind-damp, dissipate stasis and resolve toxin. TCM Indications: *Qi* pain in heart and stomach, mounting *qi*, child *gan* accumulation, food accumulation distention and fullness, swollen liver and spleen due to bilharziosis, wind-damp impediment pain, beriberi, knocks and falls, fracture, otitis media, nasosinusitis. Isolated compounds: 20444.
- T5190 *Prana discifera* DA PENG TENG; Disciform Prana*. Isolated compounds: 3279.
- T5191 *Prangos pabularia* (Apiaceae); SHUAN CHI QIN; Common Prangos. Isolated compounds: 933, 9419, 13453, 16261, 16457, 16485, 16486, 16487, 17028.
- T5192 *Prangos tschimganica* (Apiaceae). Isolated compounds: 22064, 22065, 22066.
- T5193 *Pratia nummularia* (Campanulaceae); TONG CHUI YU DAI CAO; Common Pratia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood, resolve toxin. TCM Indications: Wind-damp pain, knocks and falls, menstrual disorder [=menoxenia], red eyes with gall, mammary welling abscess, innominate toxin swelling. Isolated compounds: 12941, 12942, 12943, 17766, 17767.
Premna herbacea = *Pygmaepremna herbacea*
- T5194 *Premna microphylla* (Verbenaceae); DOU FU CHAI; Japanese Premna. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Malaria, diarrhea, dysentery, drunkenness, swollen welling abscess, clove sore, erysipelas, snake or insect bites, bleeding due to external injury. Isolated compounds: 21578.
- T5195 *Premna subscandens* (Verbenaceae); PAN YUAN CHOU HUANG JING; Climbing Premna. Isolated compounds: 17814, 17815, 17816, 17817, 17818, 17819, 17820, 17821.
- T5196 *Prenanthes acerifolia* (Asteraceae); QI YE PAN GUO JU; Rattlesnakeroot. Isolated compounds: 17822.
- T5197 *Primula auricula* (Primulaceae); ER ZHUANG BAO CHUN HUA; Auricula. Isolated compounds: 16532.
- T5198 *Primula elatior* (Primulaceae); GAO BAO CHUN; Oxlip. Isolated compounds: 17857, 17859, 22607.
- T5199 *Primula malacoides* (Primulaceae); BAO CHUN HUA; Fairy Primrose. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Lung heat cough, red swollen in throat, oral ulcer, gum swelling and pain, liver fire and red eyes, swollen welling abscess, sore and boil. Isolated compounds: 7334.
- T5200 *Primula mistassinica* (Primulaceae); JIA NA DA BAO CHUN; Mistassini Primrose. Isolated compounds: 17853.
- T5201 *Primula modesta* (Primulaceae); CHANG BAI SHAN BAO CHUN; Changpai Mountains Primrose. Isolated compounds: 17853.
- T5202 *Primula obconica* (Primulaceae); E BAO CHUN; Top Primrose. Used part: root. TCM Effects: To resolve liquor toxin, settle pain. Isolated compounds: 17857.
Primula officinalis = *Primula veris*
- T5203 *Primula pulverulenta* (Primulaceae); YIN FEN BAO CHUN; Pulverulent Primrose. Isolated compounds: 7819.
- T5204 *Primula veris* [Syn. *Primula officinalis*] (Primulaceae); HUANG HUA JIU LUN CAO; Official Primrose*. Isolated compounds: 6225, 6226, 10023, 14016.
- T5205 *Primula viscosa* (Primulaceae); NIAN BAO CHUN; Viscid Primrose*. Isolated compounds: 16532.
- T5206 *Prinostemma aspera* . Isolated compounds: 17862.
- T5207 *Prismatomeris tetrandra* (Rubiaceae); NAN SHAN HUA; Furstamen Prismatomeris. Used part: root. TCM Effects: To cool blood and stanch bleeding, disinherit damp and abate jaundice, dissipate stasis and strengthen sinews. TCM Indications: Gum hemorrhage, anemia, hepatitis, rheumatic arthritis, knocks and falls, urinary tract infection. Isolated compounds: 5836, 10032, 10800.
- T5208 *Pristimera indica* (Hippocrateaceae); BIAN SHUO TENG; Indian Pristimera. Isolated compounds: 17862.
- T5209 *Pronephrium simplex* [Syn. *Meniscium simplex*] (Thelypteridaceae); DAN YE XIN YUE JUE; Simple Pronephrium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, dysentery, poisonous snake bites. Isolated compounds: 17880.
- T5210 *Prosopis juliflora* (Fabaceae); MU DOU SHU; Algarroba. Isolated compounds: 11943, 16364, 19621.
- T5211 *Prosopis* spp. (Fabaceae). Isolated compounds: 22581.
- T5212 *Protea mellifera* (Proteaceae); MI PU LUO TI YA MU; Sugar Bush. Isolated compounds: 9740.
- T5213 *Protorhus thouvenotii* (Anacardiaceae). Isolated compounds: 9388, 21337, 21338.
- T5214 *Prunella vulgaris* (Lamiaceae); XIA KU CAO; Common Selfheal. Used part: spike. TCM Effects: To clear fire, brighten eyes, dissipate binds, disperse swelling. TCM Indications: Red eyes with gall, eyeball night pain, headache and dizziness, scrofula, goiter and tuberculosis, mammary welling abscess, thyroid enlargement, scrofula, hyperplasia of mammary glands, hypertension. Isolated compounds: 1733, 3674, 4680, 7751, 9616, 10334, 10350, 10887, 13137, 14158, 14306, 14307, 14398, 14512, 14634, 14783, 14784, 14785, 14786, 14787, 14788, 14803, 15539, 15540, 16036, 16050, 16905, 18006, 18007, 19758, 20349, 20366, 21764, 22264, 22270, 22621, 22622.
- T5215 *Prunus amygdalus* (Rosaceae); BA DAN XING REN; Amygdalate Apricot Seed. Used part: seed. TCM Effects: To moisten lung and suppress cough, transform phlegm and precipitate *qi*. TCM Indications: Vacuity taxation cough, fullness and oppression in heart and abdomen. Isolated compounds: 1102, 1764, 2222, 5699, 7278, 9717.
- T5216 *Prunus armeniaca* (Rosaceae); XING REN; Apricot Seed. Equivalent plant: *Prunus armeniaca* var. *ansu*. Used part: bitter seed. TCM Effects: To downbear *qi* and transform phlegm, relieve cough and calm asthma, moisten intestines and free stool. TCM Indications: Cough, asthma and fullness due to external contraction cough, intestinal dry and constipation. Isolated compounds: 1102, 1102, 1598, 3760, 4550, 4817, 4835, 6540, 6820, 6821, 6822, 7821, 9486, 11123, 12849, 12891, 12893, 13478, 15203, 15692, 16561, 18000, 19039, 20280, 20995, 20998.
- T5217 *Prunus armeniaca* (Rosaceae); XING SHU GEN; Apricot Root. Used

- part: root. TCM Effects: To resolve toxin. TCM Indications: Poisoning from almonds. Isolated compounds: 2063.
- T5218 *Prunus armeniaca* (Rosaceae); XING ZI; Apricot. Used part: fruit. TCM Effects: To moisten lung and settle asthma, engender liquid and allay thirst. TCM Indications: Lung heat dry cough, fluid damage and thirst. Isolated compounds: 3761, 7072, 9523, 14186, 15971, 17090, 22615.
- T5219 *Prunus armeniaca* var. *ansu* (Rosaceae); SHAN XING REN; Ansu Apricot Seed. Used part: bitter seed. TCM Effects: See *Prunus armeniaca*. TCM Indications: See *Prunus armeniaca*. Isolated compounds: 1102, 1102, 9512, 9519, 12849, 20995, 20998.
- T5220 *Prunus davidiana* (Rosaceae); SHAN TAO JING BAI PI; David Peach Bast. Used part: bast. TCM Effects: See *Prunus persica*. TCM Indications: See *Prunus persica*. Isolated compounds: 1764, 14768, 15279, 16992, 16993.
- T5221 *Prunus davidiana* (Rosaceae); SHAN TAO ZHI; David Peach Juvenile Branch. Used part: branchlet. TCM Effects: See *Prunus persica*. TCM Indications: See *Prunus persica*. Isolated compounds: 15279.
- T5222 *Prunus domestica* (Rosaceae); YANG LI; Garden Plum. Isolated compounds: 7821, 15477.
- T5223 *Prunus humilis* [Syn. *Cerasus humilis*] (Rosaceae); OU LI REN; Chinese Dwarf Cherry Seed. Used part: ripe seed. TCM Effects: See *Prunus japonica*. TCM Indications: See *Prunus japonica*. Isolated compounds: 15069, 15072.
- T5224 *Prunus japonica* [Syn. *Cerasus japonica*] (Rosaceae); YU LI REN; Dwarf Flowering Cherry Seed. Equivalent plant: *Prunus humilis*, *Prunus japonica* var. *nakaii*. Used part: ripe seed. TCM Effects: To moisten dryness and lubricate intestines, precipitate *qi*, disinhibit water. TCM Indications: Desiccation of liquid and intestine dryness, food accumulation and *qi* stagnation, abdominal distention and constipation, edema, beriberi, inhibited urination. Isolated compounds: 1102, 9717, 12018, 15068, 15069, 15072.
- T5225 *Prunus japonica* var. *nakaii* (Rosaceae); CHANG GENG YU LI REN; Longpedicel Chinese Buscherry Seed. Used part: ripe seed. TCM Effects: See *Prunus japonica*. TCM Indications: See *Prunus japonica*. Isolated compounds: 15069, 15072.
- T5226 *Prunus mume* (Rosaceae); BAI MEI HUA; Japanese Apricot Flower. Used part: bud. TCM Effects: To soothe liver, harmonize stomach and transform phlegm. TCM Indications: Globus hystericus, liver stomach *qi* pain, inappetence, dizziness, scrofula. Isolated compounds: 466, 497, 2222, 2276, 2278, 3489, 3551, 7525, 11666, 17265, 18004, 18005, 18351, 18378, 18390, 19087.
- T5227 *Prunus mume* (Rosaceae); MEI HE REN; Japanese Apricot Kernel. Used part: kernel. TCM Effects: To clear summerheat, brighten eyes, eliminate vexation. TCM Indications: Summerheat-heat and cholera, heat vexation, blurred vision. Isolated compounds: 1102.
- T5228 *Prunus mume* (Rosaceae); WU MEI; Japanese Apricot. Used part: unripe fruit. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, stanch bleeding, engender liquid, quiet roundworm, close sores. TCM Indications: Enduring cough, chronic diarrhea and dysentery, hematuria, hematochezia, flooding and spotting, vacuity heat with vexation and thirst, roundworm reversal with abdominal pain, outcrop of sore and welling abscess. Isolated compounds: 1102, 3766, 9717, 13419, 15279, 17328.
- T5229 *Prunus persica* (Rosaceae); TAO; Peach. Used part: fruit. TCM Effects: To engender liquid, moisten intestines, quicken blood, disperse accumulation. TCM Indications: Scant fluid and thirst, intestinal dry and constipation, amenorrhea, accumulation-gathering. Isolated compounds: 1102, 3318, 15068, 15069, 15477, 18003, 21143, 21171, 22217.
- T5230 *Prunus persica* (Rosaceae); TAO GEN; Peach Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and relieve pain, disperse swollen welling abscess. TCM Indications: Jaundice, sand *qi* abdominal pain, lumbago, taxation damage due to knocks and falls, wind-damp impediment pain, amenorrhea, blood ejection, spontaneous external bleeding, swollen welling abscess, hemorrhoids. Isolated compounds: 6864, 9457.
- T5231 *Prunus persica* (Rosaceae); TAO HUA; Peach Flower. Equivalent plant: SHAN TAO HUA. Used part: flower. TCM Effects: To disinhibit water and free stool, quicken blood and transform stasis. TCM Indications: Inhibited urination, edema, phlegm-rheum, sand strangury, stone strangury, beriberi, constipation, concretion and conglomeration, amenorrhea, mania and withdrawal, sore and papules. Isolated compounds: 15069, 15279, 21634.
- T5232 *Prunus persica* (Rosaceae); TAO JING BAI PI; Peach Bast. Equivalent plant: *Prunus davidiana*. Used part: bast. TCM Effects: To clear heat and disinhibit damp, resolve toxin, kill worms. TCM Indications: Edema, sand *qi* abdominal pain, lung heat asthma and oppression, welling abscess and flat abscess, scrofula, damp sore. Isolated compounds: 1764, 14768, 15279, 16992, 16993.
- T5233 *Prunus persica* (Rosaceae); TAO REN; Peach Kernel. Used part: seed. TCM Effects: To quicken blood and dispel stasis, moisten intestines and free stool. TCM Indications: Amenorrhea, dysmenorrhea, concretion and conglomeration, lump glomus, knocks and falls, intestinal dry and constipation. Isolated compounds: 1102, 3308, 14448.
- T5234 *Prunus persica* (Rosaceae); TAO YE; Peach Leaf. Used part: leaf. TCM Effects: To dispel wind and clear heat, dry damp and resolve toxin, kill worms. TCM Indications: Externally contracted wind evil, head wind, headache, wind impediment, eczema, swollen welling abscess and sores, lichen sore, malaria, trichomoniasis. Isolated compounds: 15279, 18421.
- T5235 *Prunus persica* (Rosaceae); TAO ZHI; Peach Juvenile Branch. Equivalent plant: *Prunus davidiana*. Used part: branchlet. TCM Effects: To quicken blood and free network vessels, resolve toxin, kill worms. TCM Indications: Pain in heart and abdomen, invisible worm sores. Isolated compounds: 1764, 15279, 16992, 16993, 19191.
- T5236 *Prunus pseudocerasus* (Rosaceae); YING TAO; Falsesour Cherry. Used part: fruit. TCM Effects: To supplement spleen and boost kidney. TCM Indications: Paralysis, spleen vacuity diarrhea, kidney vacuity and emission, pain in lumbus and legs, numbness in limbs. Isolated compounds: 8289, 9717, 19174.
- T5237 *Prunus puddun* (Rosaceae); PU DUN LI; Puddun Plum*. Isolated compounds: 18001.
- T5238 *Prunus salicina* (Rosaceae); LI HE REN; Japanese Plum Kernel. Used part: seed. TCM Effects: To dispel stasis, disinhibit water, moisten

- intestines. **TCM Indications:** Knocks and falls, blood stasis swelling and pain, ascites, beriberi, intestinal dry and constipation. **Isolated compounds:** 1102.
- T5239 *Prunus salicina* (Rosaceae); LI ZI; Japanese Plum. **Used part:** fruit. **TCM Effects:** To clear heat, engender liquid, disperse accumulation. **TCM Indications:** Vacuity taxation with steaming bone, diabetes mellitus, food accumulation. **Isolated compounds:** 1048, 1102, 22492.
- T5240 *Prunus serotina* (Rosaceae); YE HEI YING; Wild Rum-cherry. **Isolated compounds:** 4135, 19542.
- T5241 *Prunus serrulata* var. *spontanea* (Rosaceae); YE SHENG SHAN YING TAO. **Isolated compounds:** 18007, 21865.
- T5242 *Prunus* sp. (Rosaceae). **Isolated compounds:** 8278, 13126, 17403.
- T5243 *Prunus* spp. (Rosaceae). **Isolated compounds:** 17399.
- T5244 *Prunus tomentosa* (Rosaceae); SHAN YING TAO; Downy Cherry. **Used part:** fruit. **TCM Effects:** To fortify spleen, boost *qi*, secure essence. **TCM Indications:** Food stagnation and diarrhea, constipation, beriberi, emission. **Isolated compounds:** 3308, 18411, 21436.
- T5245 *Prunus verecunda* (Rosaceae); WEI RUI LI; Verecun Plum*. **Isolated compounds:** 18001.
- T5246 *Prunus yedoensis* (Rosaceae); RI BEN YING HUA; Tokyo Cherry. **Isolated compounds:** 15279, 19173.
- T5247 *Przewalskia tangutica* (Solanaceae); MA NIAO PAO; Tangut Przewalskia. **Used part:** root and seed. **TCM Effects:** To resolve spasm and relieve pain, disperse swelling. **TCM Indications:** Stomachache, cholecystitis, acute gastroenteritis, chronic gastroenteritis, innominate toxin swelling. **Isolated compounds:** 10872.
- T5248 *Psacalium peltatum* (Asteraceae); DUN ZHUANG LI JU; Matarique (in Mexico). **Used part:** root. **TCM Indications:** wind-damp (rheumatis)^[5509]. **Isolated compounds:** 16792.
- T5249 *Psammaphysilla purpurea* ZI SHA ROU HAI MIAN; Sponge *Psammaphysilla purpurea*. **Isolated compounds:** 18212, 18213.
- T5250 *Psammosilene tunicoides* (Caryophyllaceae); JIN TIE SUO; Tuniclike *Psammosilene*. **Used part:** root. **TCM Effects:** To dissipate stasis and settle pain, stanch bleeding, disperse welling abscess and expel pus. **TCM Indications:** Knocks and falls, wind-damp pain, stomachache, welling abscess and boil, bleeding due to external injury. **Isolated compounds:** 4462, 4463, 4464, 4534, 8057, 8058, 8073, 8074, 8075, 14401, 18014, 18015, 18418.
- T5251 *Pseudoceratina purpurea*. **Isolated compounds:** 110.
- T5252 *Pseudodrynaria coronans* (Polypodiaceae); CHUAN SHI JIAN; Rock-ginger Fern. **Used part:** rhizome. **TCM Effects:** See *Drynaria fortunei*. **TCM Indications:** See *Drynaria fortunei*. **Isolated compounds:** 9642.
- T5253 *Pseudoelephantopus spicatus* (Asteraceae); JIA DI DAN CAO; Spicate Pseudoelephantopus. **Isolated compounds:** 4203.
- T5254 *Pseudognaphalium cheiranthifolium*. **Isolated compounds:** 7015.
- T5255 *Pseudognaphalium heterotrichium*. **Isolated compounds:** 7015.
- T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (Pinaceae); TU JING PI; Chinese Golden Larch. **Used part:** root cortex and bark near root. **TCM Effects:** To dispel wind and eliminate damp, kill worms and relieve itch. **TCM Indications:** Scab and lichen, eczema, neurodermatitis. **Isolated compounds:** 489, 4769, 4770, 6104, 14702, 14703, 18031, 18032, 18033, 18034, 18035, 18036, 18037, 18038, 18039, 18040, 18041, 18042, 18043, 18044, 18045, 18046, 18047, 18048, 18049.
- Pseudolarix kaempferi* = *Pseudolarix amabilis*
- T5257 *Pseudophegopteris bukoensis* (Thelypteridaceae). **Isolated compounds:** 17974.
- T5258 *Pseudophegopteris hirtirachis* (Thelypteridaceae). **Isolated compounds:** 17974.
- T5259 *Pseudophegopteris subaurita* (Thelypteridaceae); GUANG NANG ZI BING JUE; Long-eared *Pseudophegopteris*. **Isolated compounds:** 17974.
- T5260 *Pseudostellaria heterophylla* (Caryophyllaceae); YI YE JIA FAN LV; Heterophylla Falsestarwort. **Used part:** root. **TCM Effects:** To boost *qi* and fortify spleen, moisten lung and engender liquid. **TCM Indications:** Spleen vacuity and fatigued body, inappetence, weakness during convalescence, *qi* and *yin* vacuity, thirst due to spontaneous sweating, dry cough due to lung dryness. **Isolated compounds:** 1526, 1673, 9569, 14870, 18064, 18065, 18066, 18067, 18068, 18069.
- T5261 *Pseudotsuga sinensis* (Pinaceae); HUANG SHAN; China Douglas Fir. **Isolated compounds:** 10481, 21134.
- T5262 *Pseuduvaria* spp. (Annonaceae). **Isolated compounds:** 15751.
- T5263 *Psidia anchusifolia*. **Isolated compounds:** 6372, 21204.
- T5264 *Psidia dentata*. **Isolated compounds:** 11569.
- T5265 *Psidium guajava* (Myrtaceae); FAN SHI LIU GAN; Guava Unripe Fruit. **Used part:** unripe fruit. **TCM Effects:** To promote contraction and check drain, stanch bleeding. **TCM Indications:** Chronic dysentery, flooding and spotting. **Isolated compounds:** 2039, 3301, 3303, 8095, 9043, 12714, 18837, 20910.
- T5266 *Psidium guajava* (Myrtaceae); FAN SHI LIU PI; Guava Bark. **Used part:** bark. **TCM Effects:** To promote astriction, check diarrhea, close sores. **TCM Indications:** Damp toxin of scab sore, toothache, sore and boil in children. **Isolated compounds:** 1083, 1736, 3296, 12714, 13125.
- T5267 *Psidium guajava* (Myrtaceae); FAN SHI LIU YE; Guava Leaf. **Used part:** leaf. **TCM Effects:** To dry damp and fortify spleen, clear heat and resolve toxin. **TCM Indications:** Dysentery, food accumulation abdominal distention, gingiva painful swelling, wind-damp impediment pain, eczema shank sore, swelling toxin of clove sore, painful swelling from knocks and falls, bleeding due to external injury, snake or insect bites. **Isolated compounds:** 1083, 2039, 7521, 9043, 9073, 9074, 12714, 18378, 20389.
- T5268 *Psidium guajava* (Myrtaceae); FAN SHI LIU ZI; Guava Seed. **Used part:** seed. **TCM Effects:** To relieve pain, arrest diarrhea. **TCM Indications:** Abdominal pain, diarrhea. **Isolated compounds:** 6284, 6285.
- T5269 *Psilotum nudum* (Psilotaceae); SHI SHUA BA; Nude Fern. **Used part:** whole herb. **TCM Effects:** To dispel wind and eliminate damp, quicken blood and stanch bleeding. **TCM Indications:** Wind-damp impediment pain, wind papules, amenorrhea, blood ejection, knocks and falls. **Isolated compounds:** 1031, 1032, 1033, 18084, 18085.
- T5270 *Psoralea corylifolia* (Fabaceae); BU GU ZHI; Malaytea Scurfpea. **Used part:** fruit. **TCM Effects:** To supplement kidney and invigorate *yang*, accept *qi* and calm asthma, warm spleen and check diarrhea. **TCM Indications:** Fracture, osteomalacia, osteoporosis, kidney *yang* vacuity, cold pain in lumbus and knees, impotence and emission,

- frequent urination, enuresis, kidney *qi* insecurity, vacuity asthma, spleen-kidney vacuity, chronic diarrhea, white patch wind, alopecia areata, psoriasis. Isolated compounds: 1191, 2081, 2123, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 4107, 4108, 4109, 4110, 4680, 6537, 11248, 11345, 11557, 11632, 15203, 15341, 15342, 18086, 18087, 18088, 18089, 20081, 20280, 20369, 21537, 22774.
- T5271 *Psoralea drupacea* (Fabaceae); HE GUO ZHUANG BU GU ZHI; Drupaceous Scurfpea*. Isolated compounds: 2081.
- T5272 *Psorospermum febrifugum* (Clusiaceae); PU SUO MU. TCM Effects: To resolve heat, resolve toxin, free stool^[5509]. TCM Indications: Constipation, numbing wind (leprosy)^[5509]. Isolated compounds: 18091, 22551.
- T5273 *Psorothamnus junceus* (Fabaceae); DENG XIN DAI ER DOU. Isolated compounds: 18092.
- T5274 *Psychotria beccaroides* (Rubiaceae); BI CHUAN JIU JIE MU. Isolated compounds: 18094.
- T5275 *Psychotria forsteriana* (Rubiaceae); FU SI TE JIU JIE; Forster Ninenode*. Isolated compounds: 18295, 18296.
- T5276 *Psychotria leiocarpa* (Rubiaceae); PING HUA GUO JIU JE; Leio-fruit Ninenode*. Isolated compounds: 8746.
- T5277 *Psychotria oleoides* (Rubiaceae); YOU GAN LAN JIU JIE; Olive Ninenode*. Isolated compounds: 18093.
- T5278 *Psychotria rostrata* (Rubiaceae); HUI ZHUANG JIU JIE; Rostral Ninenode*. Isolated compounds: 18296.
- T5279 *Psychotria serpens* (Rubiaceae); MAN JIU JIE; Creeping Ninenode. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, disperse swelling and relieve pain. TCM Indications: Pain in joints due to rheumatism, deadlimb, taxation damage in lumbar muscle, sciatica, multiple swollen welling abscess, bone tuberculosis, knocks and falls, fracture, poisonous snake bite. Isolated compounds: 14144, 20369.
- T5280 *Ptaeroxylon obliquum* (Ptaeroxylaceae). Isolated compounds: 14125, 18097.
- T5281 *Ptelea* sp. (Rutaceae). Isolated compounds: 15645.
- T5282 *Ptelea trifoliata* (Rutaceae); YU JU; Common Hoptree. Isolated compounds: 13904, 14446, 14705, 15348, 18102.
- T5283 *Pteridium aquilinum* (Pteridaceae); OU ZHOU JUE; Bracken. Isolated compounds: 6678, 18000, 18099, 18100, 18101, 18124, 18150, 18151.
- T5284 *Pteridium aquilinum* var. *latiusculum* (Pteridaceae); JUE; Eastern Bracken Fern. Used part: tender leaf. TCM Effects: To clear heat and disperse damp, downbear *qi* and transform phlegm, stanch bleeding. TCM Indications: Common cold with fever, jaundice, dysentery, vaginal discharge, dysphagia-occlusion, tuberculosis and hemoptysis, intestinal wind bleeding, wind-damp impediment pain. Isolated compounds: 490, 2267, 11013, 11351, 16565, 16566, 16567, 17700, 17703, 18098, 18112, 18116, 18117, 18118, 18119, 18120, 18121, 18122, 18131, 18132, 18133, 18134, 18135, 18136, 18137, 18138, 18145, 18146, 18147, 18149, 18161, 18162.
- T5285 *Pteridophyllum* spp. Isolated compounds: 3498.
- T5286 *Pteris bella* (Pteridaceae); CHANG BING FENG WEI JUE; Pretty Brake. Isolated compounds: 18155.
- T5287 *Pteris cretica* (Pteridaceae); DA YE JING KOU BIAN CAO; Cretan Brake. Isolated compounds: 18154.
- T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*] (Pteridaceae); FENG WEI JUE; Nervous Brake. Used part: whole herb. TCM Effects: To clear heat and disperse damp, stanch bleeding and engender flesh, resolve toxin and disperse swelling. TCM Indications: Diarrhea, dysentery, jaundice, strangury syndrome, edema, coughing of blood, hematuria, hematochezia, bleeding knife wound, painful swelling from knocks and falls, sore and welling abscess, burns and scalds. Isolated compounds: 18098, 18154.
- T5289 *Pteris dactylina* (Pteridaceae); JIN JI WEI; Figuerleaved Brake. Used part: whole herb or rhizome. TCM Effects: To clear heat and resolve toxin, disperse damp and transform damp, settle fright. TCM Indications: Dysentery, diarrhea, mumps, lymphadenitis, leukorrhea, edema, infant fright wind, rabid dog bite. Isolated compounds: 18150, 18152.
- T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*] (Pteridaceae); JIN CHAI FENG WEI JUE; Faurie's Brake. Used part: leaf. TCM Effects: To clear heat and disperse damp, dispel wind and settle fright, close sores and stanch bleeding. TCM Indications: Dysentery, diarrhea, jaundice, infant fright wind, bleeding due to external injury, burns and scalds. Isolated compounds: 18126, 18127, 18128, 18129, 18130, 18158, 18159.
Pteris fauriei var. *minor* = *Pteris fauriei*
- T5291 *Pteris inaequalis* (Pteridaceae); BIAN YI FENG WEI JUE; Unequal Brake. Isolated compounds: 18126, 18127.
- T5292 *Pteris kiuschiensis* (Pteridaceae); PING YU FENG WEI JUE; Kiushu Brake. Isolated compounds: 18155, 18156.
- T5293 *Pteris linearis* (Pteridaceae); XIAN YU FENG WEI JUE; Linear Brake. Isolated compounds: 18155.
- T5294 *Pteris livida* (Pteridaceae). Isolated compounds: 18154.
- T5295 *Pteris multifida* (Pteridaceae); FENG WEI CAO; Chinese Brake. Used part: whole herb or rhizome. TCM Effects: To clear heat and disperse damp, resolve toxin and disperse swelling, cool blood and stanch bleeding. TCM Indications: Dysentery, diarrhea, strangury-turbidity, vaginal discharge, jaundice, swelling toxin of clove sore, throat impediment with nipple moth, scrofula, parotitis, mastitis, ardent fever and convulsion, snake or insect bites, blood ejection, spontaneous external bleeding, hematuria, hematochezia, bleeding due to external injury. Isolated compounds: 18139, 18150, 18154, 18289, 18290.
Pteris nervosa = *Pteris cretica* var. *nervosa*
- T5296 *Pteris oshimensis* (Pteridaceae); XIE YU FENG WEI JUE; Oblique Pinna Brake. Isolated compounds: 18125, 18152.
- T5297 *Pteris plumbea* (Pteridaceae); LI BING FENG WEI JUE; Lead-coloured Brake. Used part: whole herb. TCM Effects: To clear heat and disperse damp, quicken blood and stanch bleeding. TCM Indications: Dysentery, knocks and falls, bleeding knife wound. Isolated compounds: 16849, 18107, 18108, 18109, 18110, 18111.
- T5298 *Pteris vittata* (Pteridaceae); WU GONG CAO; Chinese Brake. Used part: whole herb or rhizome. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, resolve toxin and kill worms. TCM Indications: Wind-damp pain in sinew and bone, lumbago, numbness in limbs, hemiplegia, knocks and falls, common cold, dysentery, mammary welling abscess, sore toxin, scab sore, ascariasis, snake or insect bites. Isolated compounds: 12525.

- T5299 *Pteris wallichiana* (Pteridaceae); SAN CHA FENG WEI JUE; Wallich's Brake. Used part: whole herb. TCM Effects: To clear heat and check dysentery, settle fright, stanch bleeding. TCM Indications: Dysentery, infant fright wind, bleeding due to external injury. Isolated compounds: 18125.
- T5300 *Pterocarpus angolensis* (Fabaceae); AN GE LA ZI TAN; Angola Padauk*. Isolated compounds: 15998, 18001.
- T5301 *Pterocarpus indicus* (Fabaceae); ZI TAN; Burmacoast Padauk. Used part: wood. TCM Effects: To dispel stasis and harmonize construction, stanch bleeding and settle pain. TCM Indications: Headache, pain in heart and abdomen, persistent flow of lochia, dribbling pain of urination, wind toxin and swollen welling abscess, incised wound and bleeding. Isolated compounds: 1240, 6290, 7883, 18103, 18104, 18163.
- T5302 *Pterocarpus marsupium* (Fabaceae); NANG ZHUANG ZI TAN; Vengai Padauk. Isolated compounds: 8620, 13579, 18105, 18106, 18115, 18164, 22476, 22477.
- T5303 *Pterocarpus officinalis* (Fabaceae); YAO YONG ZI TAN; Medicinal Padauk*. Isolated compounds: 10877.
- T5304 *Pterocarpus osun* (Fabaceae); E SUN ZI TAN; Osun Padauk*. Isolated compounds: 18103.
- T5305 *Pterocarpus santalinus* (Fabaceae); SI ZI TAN; Sandalwood Padauk. Isolated compounds: 2983, 5761, 8307, 9818, 10522, 10753, 13678, 18103, 18163, 19427, 19912.
- T5306 *Pterocarpus* sp. (Fabaceae). Isolated compounds: 6853, 18020.
- T5307 *Pterocarpus* spp. (Fabaceae). Isolated compounds: 3004.
- T5308 *Pterocarya stenoptera* (Juglandaceae); MA LIU YE; Chinese Wingnut. Used part: leaf. TCM Effects: To dispel wind and relieve pain, kill worms and relieve itch, resolve toxin and close sores. TCM Indications: Wind-damp impediment pain, toothache, knee joint pain, scab and lichen, eczema, trichomoniasis, scalds, wound, enduring sores, bilharziosis, cough and asthma. Isolated compounds: 19187.
- T5309 *Pterocladia tenuis* (Gelidiaceae); JI MAO CAI; Chicken-feather Vegetable*. Used part: frond. TCM Effects: To clear heat and drain fire, soften hardness and transform phlegm. TCM Indications: Lung heat abundant phlegm dry cough, laryngitis, chronic constipation. Isolated compounds: 18281.
- T5310 *Pterospermum lanceaefolium* (Sterculiaceae); ZHAI YE BAN FENG HE; Lanceleaf Wingseedtree. Used part: leaf. TCM Effects: To quicken blood and stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 2170, 6854, 12020, 18317, 18411, 19542, 19983.
- T5311 *Pueraria calycina* (Fabaceae); HUANG MAO GE; Yellow-hairy Calyx Kudzuvine. Isolated compounds: 4604, 18180.
- T5312 *Pueraria edulis* (Fabaceae); SHI YONG GE; Edible Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (Fabaceae); GE GEN; Lobed Kudzuvine Root. Equivalent plant: *Pueraria thomsonii*, *Pueraria edulis*, *Pueraria omeiensis*, *Pueraria phaseoloides*. Used part: tuberoid. TCM Effects: To engender liquid, outthrust papules, upbear yang and check diarrhea. TCM Indications: Angina pectoris, hypertension, headache due to externally contracted wind-heat, rigidity of neck, thirst, diabetes mellitus, non-eruption of measles, heat dysentery, diarrhea, deafness in early stage, optic nerve atrophy, retinitis. Isolated compounds: 917, 1598, 4190, 4604, 4605, 4606, 4680, 5345, 7883, 7885, 8278, 8282, 12113, 12308, 12309, 13445, 14080, 14494, 14706, 18180, 18181, 18182, 18183, 18184, 18185, 18186, 18859, 19540, 19983, 20083, 21751, 21781, 22080.
- T5314 *Pueraria lobata* var. *thomsonii* (Fabaceae); FEN GE; Thomson Kudzuvine. Isolated compounds: 4604, 4606, 18180.
- T5315 *Pueraria mirifica* (Fabaceae); GUO YE GE; Mirifica Kudzuvine. Isolated compounds: 14883.
- T5316 *Pueraria omeiensis* (Fabaceae); E MEI GE; Omei Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- T5317 *Pueraria peduncularis* (Fabaceae); YUN NAN GE TENG; Yunnan Kudzuvine. Used part: lianoid stem or root. TCM Effects: To kill worms (stem), upbear yang and resolve exterior (root). TCM Indications: Impotence, common cold (root). Isolated compounds: 4604, 6061, 6062, 7273, 8663, 8683, 18180.
- T5318 *Pueraria phaseoloides* (Fabaceae); SAN LIE YE GE; Trilobedleaf Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- Pueraria pseudohirsuta* = *Pueraria lobata*
- T5319 *Pueraria* spp. (Fabaceae). Isolated compounds: 18180.
- T5320 *Pueraria thomsonii* (Fabaceae); GAN GE TENG GEN; Thomson Kudzuvine Root. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4605, 4606, 14706, 18180.
- Pueraria thunbergiana* = *Pueraria lobata*
- T5321 *Pueraria tuberosa* (Fabaceae); KUAI JING GE; Tuberos Kudzuvine*. Isolated compounds: 20369, 22080.
- T5322 *Pulicaria wightiana* (Fabaceae); ZAO CAO; Pulicaria*. Isolated compounds: 16741, 16742, 16743, 16744, 16745.
- T5323 *Pulsatilla campanella* (Ranunculaceae); ZHONG E BAI TOU WENG; Bellcalyx Pulsatilla. Used part: root. TCM Effects: See *Pulsatilla chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 12642, 12643, 18195, 18196.
- T5324 *Pulsatilla cernua* (Ranunculaceae); CHAO XIAN BAI TOU WENG; Korean Pulsatilla. Used part: root. TCM Effects: See *Pulsatilla chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 3433, 19316, 20369.
- T5325 *Pulsatilla chinensis* (Ranunculaceae); BAI TOU WENG; Chinese Pulsatilla. Equivalent plant: *Pulsatilla cernua*, *Pulsatilla campanella*, *Pulsatilla dahurica*. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and check diarrhea, dry damp and kill worms. TCM Indications: Amebic dysentery, nosebleed, flooding and spotting, bleeding from hemorrhoids, cold-heat warm malaria, vaginal discharge, pudendal itch, eczema, scrofula, welling abscess, painful red eyes, neurodermatitis. Isolated compounds: 266, 1178, 1179, 1180, 1181, 1182, 3340, 4431, 4680, 5951, 5952, 6106, 9260, 10674, 10675, 16295, 18191, 18192, 18193, 18194, 18545, 18686.
- T5326 *Pulsatilla dahurica* (Ranunculaceae); XING AN BAI TOU WENG; Dahurian Pulsatilla*. Used part: root. TCM Effects: See *Pulsatilla*

- chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 12642, 12644.
- T5327 *Punica granatum* (Punicaceae); SHI LIU GEN; Pomegranate Root. Used part: root. TCM Effects: To kill worms, astrin角度 intestines, check discharge. TCM Indications: Ascariasis, taeniasis, chronic diarrhea, chronic dysentery, red and white vaginal discharge. Isolated compounds: 6632, 8808, 14534, 16781, 16789, 18055.
- T5328 *Punica granatum* (Punicaceae); SHI LIU PI; Pomegranate Peel. Used part: pericarp. TCM Effects: To astrin角度 intestines and check diarrhea, stanch bleeding, expel worms. TCM Indications: Chronic diarrhea, chronic dysentery, hematochezia, prolapse of rectum, flooding and spotting, leukorrhea, abdominal pain due to worm accumulation. Isolated compounds: 7951, 8095, 14534, 16789, 18200, 18201, 18202, 18204, 18205, 18206, 21177.
- T5329 *Punica granatum* (Punicaceae); SHI LIU XIN CAI; Pomegranate Heartwood. Used part: root. TCM Effects: To expel worms, astrin角度 intestines, check discharge. TCM Indications: Ascariasis, taeniasis, enduring diarrhea, enduring dysentery, red and white vaginal discharge. Isolated compounds: 5485, 6347, 8115, 14344.
- T5330 *Punica granatum* (Punicaceae); SHI LIU YE; Pomegranate Leaf. Used part: leaf. TCM Effects: To promote contraction and check drain, resolve toxin and kill worms. TCM Indications: Diarrhea, furunculosis, *lai* sore, knocks and falls. Isolated compounds: 17805.
- T5331 *Punica granatum* (Punicaceae); SHI LIU ZHONG ZI; Pomegranate Seed. Isolated compounds: 3984, 4680, 6344, 10949, 17087, 19923, 21955.
- T5332 *Punica granatum* (Punicaceae); SUAN SHI LIU; Pomegranate. Used part: fruit. TCM Effects: To allay thirst, astrin角度 intestines, stanch bleeding. TCM Indications: Diarrhea, chronic dysentery, flooding and spotting, vaginal discharge. Isolated compounds: 7387, 18203, 21576.
- T5333 *Punica granatum* cv. *nana* (Punicaceae); YUE JI SHI LIU; Dwarf Pomegranate. Isolated compounds: 7387.
- T5334 *Putoria calabrica* (Rubiaceae). Isolated compounds: 18226, 18227.
- T5335 *Putranjiva roxburghii* (Euphorbiaceae). Isolated compounds: 18229.
- T5336 *Putterlickia verrucosa* DUO ZHI PU TE MU. Isolated compounds: 15776.
- T5337 *Pycnarrhena longifolia* (Menispermaceae). Isolated compounds: 9597.
- T5338 *Pycnarrhena ozantha* (Menispermaceae). Isolated compounds: 15804.
- T5339 *Pycnoporus sanguineus* (Polyporaceae); XUE HONG SHUAN JUN. Used part: sporocarp. TCM Effects: See *Trametes cinnabarina*. TCM Indications: See *Trametes cinnabarina*. Isolated compounds: 18231.
- T5340 *Pygeum topengii* (Rosaceae); TUN XING GUO; Topeng Pygeum. Used part: bark. TCM Indications: Maybe cure prostatauxe. Isolated compounds: 4680, 6178, 7657, 7951.
- T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*] (Verbenaceae); QIAN JIE CAO; Herbaceous Pygmaeopremna. Used part: whole herb. TCM Effects: To quicken blood and relieve pain, dispel wind and eliminate damp, fortify spleen and disperse food. TCM Indications: Knocks and falls, wind-damp impediment pain, pain in stomach duct, indigestion, diarrhea, toxin swelling of sores. Isolated compounds: 5468, 18232, 18233, 18234, 18235, 18236.
- T5342 *Pyrenula japonica* (Pyrenulaceae); RI BEN XIAO HE YI; Asian lichen. Isolated compounds: 5993, 21810.
- T5343 *Pyrethrum* sp. (Asteraceae). Isolated compounds: 22103.
- T5344 *Pyrola atropurpurea* (Pyrolaceae); ZI BEI LU TI CAO; Purpleback Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 9594, 10887.
- T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*] (Pyrolaceae); LU XIAN CAO; Chinese Pyrola. Equivalent plant: *Pyrola decorata*, *Pyrola japonica*, *Pyrola incarnata*, *Pyrola rotundifolia*, *Pyrola atropurpurea*, *Pyrola calliantha* var. *tibetana*. Used part: whole herb. TCM Effects: To dispel wind-damp, strengthen sinews and bones, stanch bleeding. TCM Indications: Pulmonary infection, intestinal infection, urinary tract infection, infant diarrhea, acute dysentery, wind-damp impediment pain, lassitude in lumbus and knees, profuse menstruation, enduring cough. Isolated compounds: 1618, 3526, 5763, 8095, 9594, 10887, 18270, 18317, 18620.
- T5346 *Pyrola calliantha* var. *tibetana* (Pyrolaceae); XI ZANG LU TI CAO; Tibet Pyrola*. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 9594.
- T5347 *Pyrola decorata* (Pyrolaceae); PU TONG LU TI CAO; Common Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1935, 9594, 10887, 11642, 18270.
- T5348 *Pyrola forrestiana* (Pyrolaceae); DA LI LU TI CAO; Forrest Pyrola. Isolated compounds: 9594.
- T5349 *Pyrola incarnata* (Pyrolaceae); HONG HUA LU TI CAO; Redflower Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 3526, 9594, 10888, 11456, 17876, 17881, 17884, 17892, 17896, 22270.
- T5350 *Pyrola japonica* (Pyrolaceae); RI BEN LU TI CAO; Japanese Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1618, 3526, 6336, 8697, 9363, 9594, 10150, 10198, 10200, 14933, 16050, 17476, 18317, 19983, 22270.
- T5351 *Pyrola rotundifolia* (Pyrolaceae); YUAN YE LU TI CAO; European Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1618, 9594, 11456, 18268, 18269, 18270, 18620.
Pyrola rotundifolia ssp. *chinensis* = *Pyrola calliantha*
- T5352 *Pyrola rugosa* (Pyrolaceae); ZHOU YE LU TI CAO; Wrinkledleaf Pyrola. Isolated compounds: 9594, 22270.
Pyropolyporus fomentarius = *Fomes fomentarius*
- T5353 *Pyrrrosia calvata* (Polypodiaceae); GUANG SHI WEI; Bald Pyrrosia. Isolated compounds: 11524, 13481.
- T5354 *Pyrrrosia davidii* (Polypodiaceae); BEI JING SHI WEI; Peking Pyrrosia Frond. Used part: leaf. TCM Effects: See *Pyrrrosia lingua*. TCM Indications: See *Pyrrrosia lingua*. Isolated compounds: 3551, 13481.
- T5355 *Pyrrrosia drakeana* (Polypodiaceae); ZHAN MAO SHI WEI; Panniform Pyrrosia. Used part: leaf. TCM Effects: See *Pyrrrosia lingua*. TCM Indications: See *Pyrrrosia lingua*. Isolated compounds: 3551, 7283.
- T5356 *Pyrrrosia gralla* (Polypodiaceae); XI NAN SHI WEI; Stilted Pyrrosia.

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- Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 3551, 7283.
- T5357 *Pyrrosia lingua* (Polypodiaceae); SHI WEI; Japanese Felt Fern Frond. Equivalent plant: *Pyrrosia sheareri*, *Pyrrosia davidii*, *Pyrrosia petiolosa*. Used part: leaf. TCM Effects: To disinhibit urine and free strangury, clear heat and stanch bleeding. TCM Indications: Heat strangury, blood strangury, stone strangury, urinary stoppage, dripping with inhibited pain, blood ejection, nosebleed(epistaxis), hematuria, flooding and spotting, lung heat cough asthma, urethral stone, urinary tract infection, bleeding. Isolated compounds: 3551, 7283, 9641, 11524, 11642, 12020, 13481, 18317, 19983, 20446, 21634.
- T5358 *Pyrrosia petiolosa* (Polypodiaceae); YOU BING SHI WEI; Petioled *Pyrrosia* Frond. Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 3551, 7283, 11524, 13481.
- T5359 *Pyrrosia pseudocalvata* (Polypodiaceae); NI GUANG SHI WEI; Pseudobald *Pyrrosia**. Isolated compounds: 3551, 11524, 13481.
- T5360 *Pyrrosia sheareri* (Polypodiaceae); LU SHAN SHI WEI; Shearer's *Pyrrosia* Frond. Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 2887, 3551, 5763, 7283, 7996, 9641, 11524, 13481, 19983, 20446.
- T5361 *Pyrus betulaeifolia* (Rosaceae); TANG LI; Birchleaf Pear. Used part: fruit. TCM Effects: To constrain lung, astringe intestines, disperse food. TCM Indications: Cough, diarrhea, dysentery, food accumulation. Isolated compounds: 15363.
- T5362 *Pyrus bretschneideri* (Rosaceae); LI YE; Bretschneider Pear Leaf. Equivalent plant: *Pyrus pyrifolia*. Used part: leaf. TCM Effects: To soothe liver and harmonize stomach, disinhibit water and resolve toxin. TCM Indications: Cholera with vomiting and diarrhea, edema, inhibited urination, child mounting *qi*, poisoning of mushrooms. Isolated compounds: 1618, 11325, 11326.
- T5363 *Pyrus calleryana* (Rosaceae); YE LI ZHI YE; Callery Pear Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin, moisten lung and relieve cough, move *qi* and fortify stomach. TCM Indications: Incessant vomiting and diarrhea, abdominal pain and cramp, stomach reflux vomiting. Isolated compounds: 1618, 2894, 5769, 9820, 17966, 17969, 22340.
- T5364 *Pyrus communis* (Rosaceae); XI YANG LI; Common Pear. Isolated compounds: 324, 1618, 9740, 18280.
- T5365 *Pyrus pashia* (Rosaceae); CHUAN LI GUO; Pashi Pear Fruit. Used part: fruit. TCM Effects: To disperse food and transform accumulation, dispel stasis and relieve pain. TCM Indications: Meat-type food accumulation, indigestion, diarrhea, dysmenorrhea, postpartum blood stasis abdominal pain, hypertension. Isolated compounds: 7951.
- T5366 *Pyrus pyrifolia* (Rosaceae); SHA LI YE; Sand Pear Leaf. Used part: leaf. TCM Effects: See *Pyrus bretschneideri*. TCM Indications: See *Pyrus bretschneideri*. Isolated compounds: 1618.
- T5367 *Pyrus* sp. (Rosaceae). Isolated compounds: 7729.
- T5368 *Python molurus bivittatus* (Boidae); MANG SHE; Indian Python. Used part: meat. TCM Effects: To dispel wind and quicken network vessels, kill worms and relieve itch. TCM Indications: Wind impediment, paralysis, leprosy, scab and lichen, malign sore. Isolated compounds: 20038.
- T5369 *Quassia africana* (Simaroubaceae); FEI ZHOU KU MU; African Quassia*. Isolated compounds: 15554, 19900.
- T5370 *Quassia amara* (Simaroubaceae); MEI ZHOU KU MU; Surinam Quassia. Isolated compounds: 15454, 15549, 15561, 18298, 18299, 19900.
- T5371 *Quercus aliena* (Fagaceae); HU LI; Peking Oak. Isolated compounds: 17754.
- T5372 *Quercus dentata* (Fagaceae); HU YE; Daimyo Oak Leaf. Used part: leaf. TCM Effects: To stanch bleeding, free strangury. TCM Indications: Spontaneous external bleeding, blood ejection, hematochezia, bleeding from hemorrhoids, blood dysentery, dribbling pain of urination. Isolated compounds: 12038.
- T5373 *Quercus iberica* (Fagaceae); YI BI LI YA LI; Iberian Oak*. Isolated compounds: 18317.
- T5374 *Quercus infectoria* (Fagaceae); MO SHI ZI; Aleppo Gall (*Galla Halepensis*). Used part: cecidium. TCM Effects: To secure *qi* and rough essence, constrain lung, stanch bleeding. TCM Indications: Diarrhea, hematochezia, emission, genital sweating, cough, hemoptysis, toothache, bleeding due to external injury, enduring sores. Isolated compounds: 8095, 16836, 20566.
- T5375 *Quercus mongolica* (Fagaceae); MENG GU LI; Mongolian Oak. Used part: leaf. TCM Effects: To clear heat and check dysentery, relieve cough, resolve toxin and disperse swelling. TCM Indications: Bacillary dysentery, child indigestion, swollen welling abscess, hemorrhoids. Isolated compounds: 7951, 8788, 9479.
- T5376 *Quercus phillyraeoides* (Fagaceae); FEI LI GUI LI; Mocketprivet-like Oak. Isolated compounds: 17144.
- T5377 *Quercus robur* (Fagaceae); OU ZHOU BAI LI; Common Oak. Isolated compounds: 18410.
- T5378 *Quercus rubra* (Fagaceae); HONG LI; Spanish Oak. Isolated compounds: 9202.
- T5379 *Quercus* sp. (Fagaceae). Isolated compounds: 3301, 3983, 7518, 19910, 20910.
- T5380 *Quercus* spp. (Fagaceae). Isolated compounds: 16765.
- T5381 *Quercus tinctoria* (Fagaceae); ZHUO SE LI; Black Oak. Isolated compounds: 18411.
- T5382 *Quillaja saponaria* (Rosaceae); ZAO PI SHU; Soapbark Tree. Isolated compounds: 18418.
- T5383 *Quisqualis fructus* (Combretaceae). Isolated compounds: 18452.
- T5384 *Quisqualis indica* (Combretaceae); SHI JUN ZI; Rangooncreeper. Used part: ripe fruit. TCM Effects: To resolve toxin and kill worms, eliminate food stagnation. TCM Indications: Ascariasis, oxyuria disease, child *gan* accumulation. Isolated compounds: 17746, 18452, 21662.
- T5385 *Quisqualis indica* (Combretaceae); SHI JUN ZI YE; Rangooncreeper Leaf. Used part: leaf. TCM Effects: To rectify *qi* and fortify spleen, resolve toxin and kill worms. TCM Indications: Child *gan* accumulation, distention fullness in stomach duct and abdomen, worm accumulation, ulcerating sore and boil. Isolated compounds: 17746, 21662.
- T5386 *Quisqualis indica* var. *villosa* (Combretaceae); MAO SHI JUN ZI;

Villous Rangooncreeper*. Isolated compounds: 18452.

T5387 *Quivisia papinae*. Isolated compounds: 4714, 9808, 18453.

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T5388 *Rabdosia adenantha* (Lamiaceae); XIAN HUA XIANG CHA CAI; Glandularflower Rabdosia. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Heat toxin sores, diarrhea, dysentery. Isolated compounds: 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 619, 621, 622, 623, 2949, 7917, 11391, 15507, 22657.

T5389 *Rabdosia coetsa* (Lamiaceae); XI ZHUI XIANG CHA CAI; Littleconical Rabdosia. Used part: aerial parts. TCM Effects: To effuse exterior and dissipate wind, transform damp and harmonize center, stanch bleeding. TCM Indications: Wind-cold common cold, vomiting, diarrhea, wind-damp numbness pain, eczema titillation, leg *qi* damp-erosion, bleeding knife wound. Isolated compounds: 3895, 3896, 3897, 18456, 18457, 18458, 18459.

T5390 *Rabdosia coetsoides* (Lamiaceae); JIA XI ZHUI XIANG CHA CAI; Falselittleconical Rabdosia. Isolated compounds: 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905.

T5391 *Rabdosia ericalyx* (Lamiaceae); MAO E XIANG CHA CAI; Hairysepal Rabdosia. Used part: leaf or root. TCM Effects: To dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Common cold with headache, wind-damp impediment pain, diarrhea and abdomen pain, mounting *qi* [=hernia], leg *qi*, swelling toxin of welling abscess and sore, knife wound. Isolated compounds: 6908, 6958, 7267, 7268, 7269, 7270, 7271, 7275, 13523, 13524, 13525, 13526, 13527, 13528, 13529, 13530, 13531, 13532, 13533, 13534, 13535, 13536, 13537, 13538, 13539, 13540, 13541, 13542, 18494, 18495.

T5392 *Rabdosia excisa* (Lamiaceae); WEI YE XIANG CHA CAI; Taillikeleaf Rabdosia. Isolated compounds: 7674, 7675, 7676, 7677, 7678, 7679, 7680, 7681, 7682, 7683, 7684, 9362, 12123, 12125, 18472, 18485.

Rabdosia inflexa = *Isodon inflexa*

Rabdosia japonica = *Isodon japonica*

T5393 *Rabdosia longituba* (Lamiaceae); CHANG GUAN XIANG CHA CAI; Longtube Rabdosia. Used part: root, leaf or whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Summerheat stroke with abdominal pain, urinary tract infection, mastitis, painful wound from knocks and falls, agkistrodon bite. Isolated compounds: 11511, 12123, 12957, 12958, 12959, 12960, 12961, 12962, 12963, 12970, 12971, 12972, 12973, 12974, 12975, 12976, 12977, 15988, 18466, 18467, 18468, 18469, 18477, 18925.

Rabdosia lophanthoides = *Isodon lophanthoides*

T5394 *Rabdosia macrophylla* (Lamiaceae); DA YE XIANG CHA CAI; Largeleaf Rabdosia. Isolated compounds: 11392, 18483.

T5395 *Rabdosia nervosa* (Lamiaceae); XIAN MAI XIANG CHA CAI; Veined Rabdosia. Used part: whole herb. TCM Effects: To disinhibit damp and harmonize stomach, resolve toxin and close sores. TCM Indications: Acute hepatitis, indigestion, pemphigus, eczema, itchy skin, burns and scalds, poisonous snake bites. Isolated compounds: 4873, 8146, 8147, 12537, 15507, 15508, 15509, 15510, 15848, 15988,

16183, 17717, 18480, 18481, 18482.

T5396 *Rabdosia rubescens* (Lamiaceae); DONG LING CAO; Blushred Rabdosia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, anticancer. TCM Indications: Swelling pain in throat, common cold with headache, trachitis, chronic hepatitis, pain in joints due to rheumatism, snake or insect bites, carcinoma of mammary glands, carcinoma of esophagus. Isolated compounds: 3689, 4550, 4701, 4833, 6741, 8483, 9080, 9486, 12843, 13694, 15681, 16050, 16183, 17376, 17717, 18503, 18975, 18976, 18977, 19872, 20466, 20622, 20623, 22270, 22797, 22798, 22799, 22800, 22801, 22802, 22803, 22804, 22805, 22806, 22807, 22808.

Rabdosia rugosa = *Isodon rugosus*

Rabdosia sculponeata = *Isodon sculponeata*

T5397 *Rabdosia serra* (Lamiaceae); XI HUANG CAO; Serrate Rabdosia. Equivalent plant: *Isodon lophanthoides*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice, dissipate stasis and disperse swelling. TCM Indications: Damp-heat jaundice, cholecystitis, diarrhea, dysentery, swelling of sores, painful wound from knocks and falls. Isolated compounds: 193, 18484, 18485, 18486.

T5398 *Rabdosia shikokiana* (Lamiaceae); SI GUO XIANG CHA CAI; Shiko Rabdosia*. Isolated compounds: 7202, 18460, 18487, 18488, 18489, 19811, 19813, 19814, 19815, 19816, 19817, 19818.

T5399 *Rabdosia* spp. (Lamiaceae). Isolated compounds: 9650.

T5400 *Rabdosia stracheyi* (Lamiaceae); CHANG YE XIANG CHA CAI; Longleaf Rabdosia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and dissipate stasis. TCM Indications: Acute icterohepatitis, acute cholecystitis, edema, summerheat stroke, stasis pain from knocks and falls, mammary sore. Isolated compounds: 256.

T5401 *Rabdosia yuennanensis* (Lamiaceae); BU YU HONG; Yunnan Rabdosia. Used part: rhizome or whole herb. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free menstruation, resolve toxin and disperse swelling. TCM Indications: Common cold, wind-damp bone pain, hemiplegia, food accumulation, pain in stomach duct, dysentery, jaundice, dysmenorrhea, menstrual block, flooding and spotting [=metrorrhagia and metrorrhagia], scrofula, syphilis, sores, measles papules, wind papules, scab and *lai*, knocks and falls, rabid dog bite, poisonous snake bites. Isolated compounds: 18510, 18511, 18512.

T5402 *Radermachera sinica* (Bignoniaceae); CAI DOU SHU; Asia Belltree. Used part: root, leaf or fruit. TCM Effects: To clear summerheat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Fever due to summerheat damage, swollen welling abscess, fracture, poisonous insect stings. Isolated compounds: 9973, 11455, 11616, 14871, 18522.

T5403 *Radula marginata* (Radulaceae); BIAN YUAN BIAN E TAI. Isolated compounds: 2348, 2349, 16985.

T5404 *Radula perrottetii* (Radulaceae); NING BIAN E TAI. Isolated compounds: 2404, 2405, 2408, 7057, 14033, 16980, 16981, 16982, 16983, 16984, 16986, 16987, 22531, 22532.

T5405 *Ramalina paludosa* (Usneaceae); ZHAO ZE SHU HUA; Marsh

- Ramalina*. Isolated compounds: 16571.
- T5406 *Rana limnocharis* (Ranidae); XIA MA DAN; Rice Frog Gall. Used part: gall juice. TCM Effects: To disinhibit throat and restore voice. TCM Indications: Child aphonia. Isolated compounds: 2720.
- T5407 *Rana nigromaculata*; *Rana plancyi* (Ranidae); QING WA; Pond Frog. Used part: body. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, supplement vacuity. TCM Indications: Edema, ascites, jaundice, toad head scourge, child heat sore, dysentery, *gan* disease, taxation fever, postpartum vacuity weakness. Isolated compounds: 626, 2393, 3205, 4221, 4222, 7814, 9853, 11784, 18529, 18530.
- T5408 *Rana nigromaculata*; *Rana plancyi* (Ranidae); QING WA DAN; Pond Frog Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin. TCM Indications: Measles papules with complicated pneumonia, throat erosion. Isolated compounds: 4031, 4583.
- T5409 *Rana temporaria chensinensis*; *Rana amurensis* (Ranidae); HA SHI MA; Dried Chinese Woodfrog. Used part: dried body. TCM Effects: To supplement lung and boost kidney, disinhibit water and disperse edema. TCM Indications: Vacuity taxation cough, child *gan* accumulation, abdominal distention with edema, swelling toxin of sore and welling abscess. Isolated compounds: 626, 18544.
- T5410 *Randia formosa* (Rubiaceae); BA NA MA SHAN SHI LIU; Taiwan Malabar Randia. Isolated compounds: 10983, 10984, 18535, 18536, 18537, 18538, 18539, 18540, 18541.
- T5411 *Randia spinosa* (Rubiaceae); SHAN SHI LIU; Malabar Randia; Sping Randia. Used part: fruit and root, leaf. TCM Effects: To dispel stasis and disperse swelling, resolve toxin, stanch bleeding. TCM Indications: Stasis swelling from knocks and falls, bleeding due to external injury, skin scabies, toxin swelling. Isolated compounds: 18542.
- T5412 *Ranunculus acris* (Ranunculaceae); CAO DI MAO GEN; Meadow Buttercup. Isolated compounds: 7821.
- T5413 *Ranunculus cantoniensis* (Ranunculaceae); ZI KOU CAO; Canton Buttercup. Used part: whole herb. TCM Effects: To clear liver and brighten eyes, resolve toxin and eliminate damp, interrupt malaria. TCM Indications: Eye screen, red eyes, jaundice, swollen welling abscess, rheumatic arthritis, malaria. Isolated compounds: 1179.
- T5414 *Ranunculus japonicus* (Ranunculaceae); MAO GEN; Japanese Buttercup. Used part: whole herb and root. TCM Effects: To abate jaundice, settle asthma, interrupt malaria, settle pain, eliminate screen. TCM Indications: Malaria, jaundice, migraine, stomachache, pain in joints due to rheumatism, crane's knee wind, swollen welling abscess, malign sore, scab and lichen, toothache, fire eye. Isolated compounds: 1178, 1179.
- T5415 *Ranunculus sceleratus* (Ranunculaceae); SHI LONG RUI; Poisonous Buttercup. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling, relieve pain, interrupt malaria. TCM Indications: Swelling toxin of welling abscess and boil, scrofula, malaria, ulcerating sore of leg. Isolated compounds: 1178, 1179, 18545.
- T5416 *Rapanea neurophylla* (Myrsinaceae); CU YE MAI MI HUA SHU; Rough-veined Rapanea*. Isolated compounds: 6767.
- T5417 *Rapanea* sp. (Myrsinaceae). Isolated compounds: 6767.
- T5418 *Rapanea umbellata* (Myrsinaceae); SAN HUA MI HUA SHU; Umbellate Rapanea*. Isolated compounds: 6767.
- T5419 *Raphanus sativus* (Brassicaceae); LAI FU; Garden Radish. Used part: fresh root. TCM Effects: To disperse food, precipitate *qi*, transform phlegm, stanch bleeding, allay thirst, disinhibit urine. TCM Indications: Indigestion, food accumulation distention and fullness, hyperchlorhydria, vomiting, diarrhea, dysentery, constipation, phlegm-heat cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, diabetes mellitus, strangury-turbidity, sores, stasis swelling due to injury, scalds, frostbite. Isolated compounds: 7768, 8307, 14581, 16778, 16779, 16780, 16782, 16783, 16784, 17134, 18278, 18548.
- T5420 *Raphanus sativus* (Brassicaceae); LAI FU ZI; Garden Radish Seed. Used part: seed. TCM Effects: To disperse food distention, downbear *qi* and transform phlegm. TCM Indications: Food stagnation, distending pain in stomach duct, constipation, accumulation and diarrhea, phlegm congestion cough asthma. Isolated compounds: 7291, 7768, 8589, 8752, 8811, 14581, 18547, 19909, 19917, 19918.
- T5421 *Raucheria* spp. Isolated compounds: 13098.
- T5422 *Rauvolfia bahiensis* (Apocynaceae); BA XI LUO FU MU; Brazilian Devilpepper*. Isolated compounds: 5054, 13838, 14039, 14102.
- T5423 *Rauvolfia verticillata* (Apocynaceae); LUO FU MU; Common Devilpepper. Equivalent plant: *Rauvolfia verticillata* var. *hainanensis*, *Rauvolfia latifrons*, *Rauvolfia perakensis*, *Rauvolfia vomitoria*, *Rauvolfia verticillata* f. *rubrocarpa*. Used part: root. TCM Effects: To clear heat, lower blood pressure, quiet spirit. TCM Indications: Common cold with fever, headache and generalized pain, swelling pain in throat, hypertension, dizziness, insomnia, *gan* accumulation. Isolated compounds: 783, 784, 18552, 18633, 18634, 18859, 22368.
- T5424 *Rauvolfia verticillata* (Apocynaceae); LUO FU MU JING YE; Common Devilpepper Stem and Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling, lower blood pressure. TCM Indications: Swelling pain in throat, stasis swelling from knocks and falls, poisonous snake bite, hypertension. Isolated compounds: 1680, 18859.
- T5425 *Rauvolfia verticillata* f. *rubrocarpa* (Apocynaceae); HONG GUO LUO FU MU; Redfruit Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 22427.
- T5426 *Rauvolfia verticillata* var. *hainanensis* (Apocynaceae); HAI NAN LUO FU MU; Hainan Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 784, 6517, 13325, 22368, 22427.
- T5427 *Rauvolfia vomitoria* (Apocynaceae); CUI TU LUO FU MU; Emetic Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 784, 1002, 1680, 5248, 6204, 16909, 18210, 18303, 18551, 18556, 18557, 18558, 18623, 18630, 18633, 18635, 19386, 19763, 21055, 22921.
- T5428 *Rauvolfia yunnanensis* (Apocynaceae); YUN NAN LUO FU MU; Yunnan Devilpepper. Used part: root. TCM Effects: To clear heat and calm liver, resolve toxin and kill worms. TCM Indications: Hypertension due to ascendant liver *yang*, headache, dizziness, vexation and agitation with insomnia, scab and lichen, snake bite. Isolated compounds: 783, 18059, 18633, 19763, 22921.

- T5429 *Rauwolfia beddomei* (Apocynaceae); BI SHI LUO FU MU; Beddome Devilpepper. Isolated compounds: 19762.
- T5430 *Rauwolfia caffra* (Apocynaceae); KA FU LA LUO FU MU; Caffra Devilpepper*. Isolated compounds: 18635, 19386.
- T5431 *Rauwolfia canescens* (Apocynaceae); HUI BAI MAO LUO FU MU; Canescent Devilpepper*. Isolated compounds: 5248.
- T5432 *Rauwolfia cubana* (Apocynaceae); GU BA LUO FU MU; Cuba Devilpepper. Isolated compounds: 5248.
- T5433 *Rauwolfia cumminsii* (Apocynaceae); KE MING XI LUO FU MU; Cummins Devilpepper*. Isolated compounds: 18210, 18635, 19386.
- T5434 *Rauwolfia fruticosa* (Apocynaceae); GUAN MU LUO FU MU; Shrubby Devilpepper*. Isolated compounds: 19762.
- T5435 *Rauwolfia latifrons* (Apocynaceae); KUO YE LUO FU MU; Broadleaf Devilpepper. Used part: root. TCM Effects: See *Rauwolfia verticillata*. TCM Indications: See *Rauwolfia verticillata*. Isolated compounds: 18633.
- T5436 *Rauwolfia littoralis* (Apocynaceae); HAI BIN LUO FU MU; Littoral Devilpepper*. Isolated compounds: 5248.
- T5437 *Rauwolfia macrophylla* (Apocynaceae); DA YE LUO FU MU; Largeleaf Devilpepper*. Isolated compounds: 18623, 18630, 18635.
- T5438 *Rauwolfia nitida* (Apocynaceae); GUANG LIANG LUO FU MU; Shining Devilpepper*. Isolated compounds: 783, 18553, 18630, 18632, 22921.
- T5439 *Rauwolfia obscura* (Apocynaceae); GANG GUO LUO FU MU; Obscure Devilpepper*. Isolated compounds: 1002, 18557.
- T5440 *Rauwolfia oreogiton* (Apocynaceae). Isolated compounds: 18303, 18635.
- T5441 *Rauwolfia perakensis* (Apocynaceae); PI LI LUO FU MU; Perak Devilpepper. Used part: root. TCM Effects: See *Rauwolfia verticillata*. TCM Indications: See *Rauwolfia verticillata*. Isolated compounds: 784, 16909, 18633, 19386.
- T5442 *Rauwolfia serpentina* (Apocynaceae); YIN DU LUO FU MU; Java Devilpepper. Used part: root, stem-leaf. TCM Effects: To lower blood pressure. TCM Indications: Hypertension. Isolated compounds: 783, 784, 4115, 5248, 11202, 16623, 18623, 18629, 18630, 18631, 18632, 18633, 18634, 19386, 19762, 22921.
- T5443 *Rauwolfia volkensii* (Apocynaceae). Isolated compounds: 18303, 18635.
- T5444 *Reboulia hemisphaerica* (Grimaldiaceae); SHI DI QIAN. Used part: thallus. TCM Effects: To clear heat and resolve toxin, disperse swelling and stanch bleeding. TCM Indications: Swelling toxin of sore and boil, burns and scalds, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 9634, 10156.
- T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); GAN DI HUANG; Adhesive Rehmannia Dried Root. Used part: dried root. TCM Effects: To enrich *yin* and clear heat, cool blood and supplement blood, lower blood sugar levels. TCM Indications: Diabetes mellitus, dermatitis, rheumatism, diphtheria, acute tonsillitis, febrile diseases with vexation and thirst, steaming bone taxation fever, warm disease macular eruption, blood ejection due to blood heat, spontaneous external bleeding due to blood heat, flooding and spotting due to blood heat, hematuria due to blood heat, hematochezia due to blood heat, anemia with yellow complexion, palpitation and dizziness, blood depletion and amenorrhea. Isolated compounds: 305, 347, 580, 618, 815, 816, 1048, 1598, 2004, 3040, 3138, 3140, 3306, 3371, 3695, 3751, 3756, 4144, 4626, 4672, 4680, 5555, 5557, 6537, 6952, 7440, 7769, 7770, 7924, 8276, 8753, 8790, 9360, 9486, 9819, 11195, 11872, 11873, 11874, 11875, 11876, 11877, 11878, 11879, 11880, 11881, 11882, 11883, 11884, 11885, 11886, 12569, 12891, 13504, 13580, 13710, 14878, 15203, 15672, 15684, 16561, 16831, 17091, 18219, 18220, 18221, 18526, 18589, 18590, 18591, 18592, 18593, 18594, 18595, 18596, 18597, 18598, 18599, 18601, 18735, 19983, 20255, 20280, 20369, 20444, 22339, 22396, 22664.
- T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); SHU DI HUANG; Adhesive Rehmannia Cocked Root. Used part: steamed and sundried root. TCM Effects: To supplement blood and enrich *yin*, boost essence and replenish marrow. TCM Indications: Blood vacuity with yellow complexion, dizziness and palpitation, menstrual disorder [=menoxenia], incessant flooding and spotting, liver-kidney *yin* depletion, tidal fever with night sweat, impotence and emission, sterility and infertility, limp aching lumbus and knees, tinnitus and deafness, dizzy head and vision, premature graying in beard and hair, diabetes mellitus, constipation, kidney vacuity hasty asthma. Isolated compounds: 3306, 9767, 10493, 18266, 18589, 18592, 18596, 18597, 18598, 18599, 18600, 22252.
- T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); XIAN DI HUANG; Adhesive Rehmannia Fresh Root. Used part: fresh root. TCM Effects: To clear heat and cool blood, engender liquid and moisten dryness, lower blood sugar levels. TCM Indications: Diabetes mellitus, dermatitis, rheumatism, diphtheria, acute tonsillitis, acute febrile diseases, ardent fever with clouded spirit, macula, fluid damage with vexation and thirst, blood ejection due to blood heat, spontaneous external bleeding due to blood heat, flooding and spotting due to blood heat, hematochezia due to blood heat, mouth and tongue sores, swelling pain in throat, taxation fever cough, painful wound from knocks and falls, swollen welling abscess. Isolated compounds: 618, 816, 3306, 13503, 18221, 18596, 18597, 18598, 18599.
- Rehmannia glutinosa* f. *huechingensis* = *Rehmannia glutinosa*
- T5448 *Rehmannia glutinosa* var. *purpurea* (Scrophulariaceae); ZI DI HUANG; Purple Adhesive Rehmannia*. Isolated compounds: 18221.
- T5449 *Reineckea carnea* (Liliaceae); JI XIANG CAO; Pink Reineckea. Used part: whole herb with root. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, resolve toxin and disinhibit throat. TCM Indications: Lung heat cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, swelling pain in throat, red eyes and eye screen, swollen welling abscess, sore and boil. Isolated compounds: 11307, 11646, 11674, 12231, 16890, 18602.
- T5450 *Renealmia nicolaitoides* (Zingiberaceae). Isolated compounds: 1418, 1420.
- T5451 *Renealmia cincinnata* (Zingiberaceae). Isolated compounds: 7503, 8335, 8336, 16154, 21750.
- T5452 *Reseda luteola* (Resedaceae); DAN HUANG MU XI CAO. TCM Effects: To effuse sweat, disinhibit urine. Isolated compounds: 13137, 13151.

- T5453 *Rhamnella inaequilatera* (Rhamnaceae); BU DUI CHENG MAO RU; Asymmetry *Rhamnella**. Isolated compounds: 18676, 18677, 18678.
- T5454 *Rhamnus cathartica* (Rhamnaceae); YAO SHU LI; Common Buckthorn. Used part: ripe fruit. TCM Effects: To moisten intestines and free stool. TCM Indications: Intestinal dry and constipation, habitual constipation. Isolated compounds: 7939, 7940.
- T5455 *Rhamnus crenata* (Rhamnaceae); LI LA GEN; Oriental Buckthorn. Used part: root or root cortex. TCM Effects: To clear heat and resolve toxin, kill worms and disinhibit damp. TCM Indications: Scab sore, intractable lichen, eczema, urticaria, tinea capitis, knocks and falls. Isolated compounds: 3598.
- T5456 *Rhamnus crenatus* (Rhamnaceae); HUANG YAO; Oriental Buckthorn. Isolated compounds: 4226.
- T5457 *Rhamnus davurica* (Rhamnaceae); SHU LI; Davurian Buckthorn. Used part: fruit. TCM Effects: To clear heat and resolve toxin, drain precipitation and kill worms, relieve cough and dispel phlegm. TCM Indications: Sore and welling abscess, scrofula, scab and lichen, decayed toothache, mouth sore, abdominal distention and constipation, cough of phlegm asthma, edema distention fullness. Isolated compounds: 967, 3615, 6776, 12020.
- T5458 *Rhamnus disperma* (Rhamnaceae); SHUANG ZHONG ZI SHU LI; Diseed Buckthorn*. Isolated compounds: 18350.
- T5459 *Rhamnus formosana* (Rhamnaceae); TAI WAN SHU LI; Taiwan Buckthorn*. Isolated compounds: 17252.
- T5460 *Rhamnus frangula* [Syn. *Frangula alnus*] (Rhamnaceae); OU SHU LI; Glossy Buckthorn. Used part: bark. TCM Effects: To moisten intestines and free stool. TCM Indications: Habitual constipation, abdominal pain. Isolated compounds: 968, 1738, 6776, 6778, 7938, 7939, 7940, 15489, 16558.
- T5461 *Rhamnus leptophylla* (Rhamnaceae); JIANG LI MU GEN; Thinleaf Buckthorn Root. Used part: root. TCM Effects: To disperse food and transform stagnation, move water and free stool. TCM Indications: Food accumulation abdominal distention, edema, ascites, constipation. Isolated compounds: 2556.
- T5462 *Rhamnus nakaharai* (Rhamnaceae); TAI ZHONG SHU LI; Taizhong Buckthorn*. Isolated compounds: 18376, 18376.
- T5463 *Rhamnus purshiana* (Rhamnaceae); BO XI SHU LI; Cascara Buckthorn. Isolated compounds: 3254, 3598, 3615, 17251.
- T5464 *Rhamnus virgata* (Rhamnaceae); ZHOU ZHI SHU LI; Twiggy Buckthorn. Isolated compounds: 17250.
- T5465 *Rhaponticum carthamoides* (Asteraceae); LU CAO; Redflowered Swisscentaury*. Used part: root. TCM Effects: To boost *qi* and fortify spleen, quiet spirit. TCM Indications: Fatigue hypodynamia, inappetence, neurasthenia. Isolated compounds: 811, 1476, 2779, 6402, 9260, 9678, 11660, 17662, 18369, 20357.
- T5466 *Rhaponticum uniflorum* (Asteraceae); LOU LU; Uniflower Swisscentaury. Equivalent plant: *Echinops grijsii*, *Echinops ritro*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and promote milk. TCM Indications: Mammary welling abscess, effusion of back from welling abscess and flat abscess, scrofula, galactostasis, damp impediment and hypertonicity. Isolated compounds: 6679, 6681, 18750, 18751.
- T5467 *Rheedia gardneriana* (Clusiaceae). Isolated compounds: 18754.
- Rheum australe* = *Rheum emodi*
- T5468 *Rheum emodi* [Syn. *Rheum australe*] (Polygonaceae); ZANG BIAN DA HUANG; Austral Rhubarb. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, stanch bleeding and engender flesh. TCM Indications: Lung heat cough, swelling pain in throat, swelling toxin of welling abscess and sore, bleeding due to external injury, hematochezia. Isolated compounds: 401, 967, 1363, 3222, 3255, 3256, 3280, 3308, 3590, 3615, 3618, 3619, 6776, 6854, 8095, 9898, 9899, 13361, 17247, 17250, 17251, 18669, 18670, 18671, 18672, 18759, 20468, 21453.
- T5469 *Rheum hotaoense* (Polygonaceae); HE TAO DA HUANG; River-bend Rhubarb*. Used part: root and rhizome. TCM Effects: To disperse accumulation and transform stagnation, free bowels and drain heat. TCM Indications: Food accumulation, distention fullness in stomach duct and abdomen, abdominal pain and diarrhea, heat bind constipation. Isolated compounds: 3616, 8095, 18767.
- T5470 *Rheum maximowiczii* (Polygonaceae); MA SHI DA HUANG; Maximowicz Rhubarb*. Isolated compounds: 10610, 10611, 10612, 10613, 13616, 13617, 18265.
- T5471 *Rheum nanum* (Polygonaceae); AI DA HUANG; Low Rhubarb*. Isolated compounds: 8879, 13361.
- T5472 *Rheum officinale* (Polygonaceae); DA HUANG; Medicinal Rhubarb. Equivalent plant: *Rheum palmatum*, *Rheum tanguticum*. Used part: root and rhizome. TCM Effects: To drain heat and free intestines, cool blood and resolve toxin, expel stasis and free menstruation. TCM Indications: Repletion heat constipation, accumulation with abdominal pain, damp-heat jaundice, acute icterohepatitis, red eyes, swollen throat, intestinal welling abscess and abdominal pain, bleeding of digestive tract, chronic diarrhea, indigestion, acute appendicitis, acute peritonitis, ileus, cholecystitis, gallstones, swollen welling abscess and clove sores, amenorrhea due to blood stasis, knocks and falls, burns and scalds. Isolated compounds: 423, 967, 970, 1363, 3172, 3173, 3279, 3315, 3615, 3619, 3620, 3703, 3706, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 8110, 10217, 10534, 14219, 14220, 15132, 16556, 16557, 16558, 17099, 17247, 17250, 17251, 17877, 17896, 18650, 18744, 18748, 18756, 18757, 18758, 18759, 18761, 18766, 19746, 19748, 19749, 19750, 19751, 21453, 21454, 21642.
- T5473 *Rheum palaestinum* (Polygonaceae). Isolated compounds: 17283, 18744.
- T5474 *Rheum palmatum* (Polygonaceae); ZHANG YE DA HUANG; Sorrel Rhubarb. Used part: root and rhizome. TCM Effects: See *Rheum officinale*. TCM Indications: See *Rheum officinale*. Isolated compounds: 899, 967, 969, 970, 971, 3308, 3315, 3599, 3615, 3619, 3620, 3703, 3706, 5206, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 16556, 16557, 16558, 17099, 17247, 17249, 17250, 17251, 17283, 17877, 17896, 18648, 18650, 18744, 18756, 18757, 18758, 18759, 18760, 18761, 18762, 18763, 18764, 18765, 18766, 19746, 19747, 19748, 19749, 19750, 19751, 19752, 21158, 21642, 21786, 21787, 21788.
- T5475 *Rheum qinlingense* (Polygonaceae); QIN LING DA HUANG; Qinling Rhubarb*. Isolated compounds: 3621.
- T5476 *Rheum raponticum* (Polygonaceae); SHI YONG DA HUANG;

- Rhubarb. Isolated compounds: 16285.
- T5477 *Rheum* sp. (Polygonaceae); CHANG JI HUANG. Isolated compounds: 17869, 17876, 17877, 17879, 17881, 17882, 17883, 17885, 17887, 17890, 17891, 17894, 17895, 17896.
- T5478 *Rheum* sp. (Polygonaceae); YU DA HUANG. Isolated compounds: 1951, 17278, 17279, 17282, 18745, 18746, 18747, 18749, 21158.
- T5479 *Rheum* sp. (Polygonaceae); SI CHUAN CHAN DA HUANG. Isolated compounds: 17278, 17280, 17281, 18648, 18650.
- T5480 *Rheum* spp. (Polygonaceae). Isolated compounds: 3615, 17878.
- T5481 *Rheum tanguticum* (Polygonaceae); TANG GU TE DA HUANG; Tangut Rhubarb. Used part: root and rhizome. TCM Effects: See *Rheum officinale*. TCM Indications: See *Rheum officinale*. Isolated compounds: 967, 970, 971, 3308, 3315, 3615, 3619, 3620, 3703, 3706, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 11496, 12876, 16556, 16557, 16558, 17247, 17250, 17251, 17283, 17877, 17896, 18648, 18650, 18756, 18757, 18758, 18759, 18761, 18762, 18763, 18764, 18765, 18766, 19746, 19748, 19749, 19751, 21158, 21642.
- T5482 *Rheum wittrockii* (Polygonaceae); TIAN SHAN DA HUANG; Tianshan Mountain Rhubarb. Isolated compounds: 3615, 3619, 5206, 6360, 6776, 17251, 17278, 18643.
- T5483 *Rhinacanthus nasutus* (Acanthaceae); BAI HE LING ZHI; Bignose Rhiancanthus. Used part: branch-leaf. TCM Effects: To clear heat and moisten lung, kill worms and relieve itch. TCM Indications: Taxation cough, scab and lichen, eczema. Isolated compounds: 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778.
- T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis* (Rhinocerotidae); XI JIAO; Rhinoceros Horn. Used part: horn. TCM Effects: To cool blood, clear heat, resolve toxin, settle fright. TCM Indications: Blood ejection, spontaneous external bleeding, acute febrile diseases, epidemic febrile diseases. Isolated compounds: 7390.
- T5485 *Rhizocarpon geographicum* (Lecideaceae); DI TU YI. Isolated compounds: 18779.
- T5486 *Rhizoma rhei*. Isolated compounds: 18650.
- T5487 *Rhizophora apiculata* (Rhizophoraceae); HONG SHU; Sharpleaf Mangrove. Isolated compounds: 3192.
- T5488 *Rhizophora mucronata* (Rhizophoraceae); HONG QIE DONG GUO; Mangrove Fruit. Isolated compounds: 2926, 2927, 15019.
- T5489 *Rhizophora stylosa* (Rhizophoraceae); HONG HAI LAN; Stylose Mangrove. Isolated compounds: 3192, 3193.
- T5490 *Rhizopus oryzae* DAO GEN MEI. Isolated compounds: 6133, 6134, 6135, 6136, 10728, 10729, 10730, 14158, 20295, 20297, 20298, 20299, 20300, 20301, 20302, 20303, 21153, 21846, 21847.
- T5491 *Rhodiola algida* (Crassulaceae); JI SHI HONG JING TIAN; Algid Rhodiola*. Isolated compounds: 18792.
- T5492 *Rhodiola atuntsuensis* (Crassulaceae); DE QIN HONG JING TIAN; Atuntsuen Rhodiola. Isolated compounds: 18791.
- T5493 *Rhodiola coccinea* (Crassulaceae); SHEN HONG HONG JING TIAN; Darkred Rhodiola. Isolated compounds: 18792.
- T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*] (Crassulaceae); DA HUA HONG JING TIAN; Bigflower Rhodiola. Used part: root. TCM Effects: To clear lung and boost *qi*. TCM Indications: Tuberculosis with cough, hemoptysis, pneumonia, bronchitis. Isolated compounds: 4227, 7441, 12083, 18792, 22170.
- Rhodiola euryphylla* = *Rhodiola crenulata*
- T5495 *Rhodiola himalansis* (Crassulaceae); XI MA HONG JING TIAN; Himalaya Rhodiola. Isolated compounds: 18792.
- T5496 *Rhodiola juparensis* (Crassulaceae); YUAN CONG HONG JING TIAN; Jupar Rhodiola. Isolated compounds: 18792.
- T5497 *Rhodiola kirilowii* (Crassulaceae); XIA YE HONG JING TIAN; Kirilow Rhodiola. Used part: rhizome and root. TCM Effects: To nourish heart and quiet spirit, quicken blood and transform stasis, stanch bleeding, clear heat and resolve toxin. TCM Indications: *Qi* vacuity and general weakness, shortness of breath and hypodynamia, palpitation and insomnia, dizziness, chest oppression and pain, knocks and falls, menstrual disorder, flooding and spotting, blood ejection, dysentery, diarrhea. Isolated compounds: 13003, 18792, 22170.
- T5498 *Rhodiola quadrifida* (Crassulaceae); SI LIE HONG JING TIAN; Foursplit Rhodiola. Used part: whole herb with root. TCM Effects: To boost kidney and nourish liver, regulate menstruation and quicken blood. TCM Indications: Steaming bone taxation fever, dry blood tisis (consumptive disease due to blood disorders), dizzy head and vision, menstrual disorder [=menoxenia]. Isolated compounds: 18792.
- T5499 *Rhodiola sacra* (Crassulaceae); SHENG DI HONG JING TIAN; Integripetal Rhodiola. Used part: whole herb. TCM Effects: To supplement *qi* and clear lung, boost wits and nourish heart, promote contraction and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: *Qi* vacuity and general weakness, aversion of cold during convalescence, shortness of breath and hypodynamia, lung heat cough, hemoptysis, leukorrhea, diarrhea, knocks and falls, burns and scalds, neurosis, altitude stress. Isolated compounds: 2887, 4680, 7441, 8095, 9467, 12020, 18790, 18792, 18793, 19109, 19377, 19983, 22170, 22195.
- T5500 *Rhodiola subopposita* (Crassulaceae); HU SHENG HONG JING TIAN; Oppositeleaf Rhodiola. Isolated compounds: 18792.
- T5501 *Rhodiola yunnanensis* (Crassulaceae); YUN NAN HONG JING TIAN; Yunnan Rhodiola. Used part: whole herb with root. TCM Effects: To supplement lung and boost kidney, clear heat and relieve cough, dissipate stasis and stanch bleeding. TCM Indications: Vacuity taxation with cough, kidney vacuity lumbar pain, pain in throat, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 18792.
- T5502 *Rhododendron anthopogonoides* (Ericaceae); XIAO YE PI PA; Savoury Rhododendron. Used part: leaf. TCM Effects: To dispel phlegm, relieve cough, calm asthma. TCM Indications: Cough, asthma, abundant phlegm. Isolated compounds: 2274, 8959, 10887, 11966, 12843.
- T5503 *Rhododendron arboreum* (Ericaceae); SHU XING DU JUAN; Treelike Rhododendron. Isolated compounds: 2334.
- T5504 *Rhododendron capitatum* (Ericaceae); TOU HUA DU JUAN; Capitata Rhododendron. Used part: leaf or flower. TCM Effects: To relieve cough and dispel phlegm, warm stomach and relieve pain. TCM Indications: Cough and asthma with abundant phlegm, stomach cold abdominal pain. Isolated compounds: 11966, 17376, 17809.
- T5505 *Rhododendron chrysanthum* (Ericaceae); NIU PI CHA; Goldmat Rhododendron. Isolated compounds: 18794.

- T5506 *Rhododendron cinnabarinum* (Ericaceae); ZHU SHA DU JUAN; Vermilion Rhododendron. Isolated compounds: 1074.
- T5507 *Rhododendron collettianum* (Ericaceae); A FU HAN DU JUAN HUA; H.Collett's Rhododendron. Isolated compounds: 3829, 3831, 6870, 8673, 21905.
- T5508 *Rhododendron dauricum* (Ericaceae); MAN SHAN HONG; Dahurian Rhododendron. Used part: leaf. TCM Effects: To relieve cough, dispel phlegm. TCM Indications: Acute bronchitis, chronic bronchitis. Isolated compounds: 1161, 2039, 2052, 2274, 3241, 3242, 3973, 4681, 4682, 4683, 4684, 5079, 5699, 7736, 8345, 8346, 8347, 8959, 9010, 9667, 9740, 10887, 10887, 11461, 12020, 16169, 18317, 18411, 18796, 19542, 19685, 20566, 21969.
- T5509 *Rhododendron fauriei* (Ericaceae); FU LEI SHI DU JUAN HUA; Pere L. F. Faurie's Rhododendron. Isolated compounds: 18794.
- T5510 *Rhododendron huianum* (Ericaceae); LIANG SHAN DU JUAN. Isolated compounds: 12020, 18317.
- T5511 *Rhododendron japonicum* (Ericaceae); RI BEN DU JUAN HUA; Japanese Azalea. Isolated compounds: 18799, 18800, 18801, 18802. *Rhododendron lamprophyllum* = *Rhododendron ovatum*
- T5512 *Rhododendron lingii* (Ericaceae); RU YUAN DU JUAN; Ruyuan Rhododendron. Isolated compounds: 18317.
- T5513 *Rhododendron mariae* (Ericaceae); LING NAN DU JUAN; Lingnan Rhododendron*. Used part: Flower, leaf, twig or root. TCM Effects: To dispel phlegm and relieve cough, disperse swelling and relieve pain. TCM Indications: Cough of profuse phlegm, asthma, knocks and falls, mouth-lever nape sore (nuchal phlegmon). Isolated compounds: 18317, 18411.
- T5514 *Rhododendron metternichii* var. *hondoese* (Ericaceae); MEI TE NI DU JUAN HUA; Metternich Rhododendron*. Isolated compounds: 1161.
- T5515 *Rhododendron micranthum* (Ericaceae); ZHAO SHAN BAI; Manchurian Rhododendron. Used part: branchlet-leaf or flower. TCM Effects: To relieve cough and transform phlegm, dispel wind and free network vessels, regulate menstruation and relieve pain. TCM Indications: Cough and asthma with abundant phlegm, wind-damp impediment pain, lumbago, menstrual disorder, dysmenorrhea, fracture. Isolated compounds: 1161, 1935, 8959, 10887, 12020, 18317, 19542, 20566.
- T5516 *Rhododendron molle* (Ericaceae); NAO YANG HUA; Chinese Azalea. Used part: flower. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and settle pain, kill worms. TCM Indications: Tachycardia, palpitation, hypertension, wind-damp impediment pain, knocks and falls, intractable lichen. Isolated compounds: 1161, 7662, 8759, 8995, 12117, 14068, 18800, 18801, 18803, 18806, 18807, 18808, 18809, 18810, 18811, 18812, 18813, 20132.
- T5517 *Rhododendron molle* (Ericaceae); NAO YANG HUA ZI; Chinese Azalea Fruit. Used part: fruit. TCM Effects: To dispel wind and dry damp, dissipate stasis and relieve pain, settle asthma, arrest diarrhea. TCM Indications: Wind-cold-damp impediment, joint running swelling pain, knocks and falls, asthma and cough, diarrhea and dysentery, swelling toxin of welling abscess and flat abscess. Isolated compounds: 18801, 18804, 18805.
- T5518 *Rhododendron mucronatum* (Ericaceae); BAI HUA YING SHAN HONG; Snow Azalea. Used part: flower, root and leaf. TCM Effects: To harmonize blood, dissipate stasis, relieve cough. TCM Indications: Blood ejection, hematochezia, dysentery, flooding and spotting, cough, knocks and falls. Isolated compounds: 2052, 2053, 5699, 8959, 15170, 18263, 18796, 20566.
- T5519 *Rhododendron mucronulatum* (Ericaceae); YING SHAN HONG; Korean Rhododendron. Used part: leaf. TCM Effects: To resolve exterior, relieve cough and transform phlegm. TCM Indications: Common cold, cough and asthma, abundant phlegm. Isolated compounds: 2052, 5699, 8959, 14542, 14609, 16884, 20566.
- T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*] (Ericaceae); MA YIN HUA; Ovateleaf Rhododendron*. Used part: root. TCM Effects: To clear damp heat, resolve sore toxin. TCM Indications: Damp-heat vaginal discharge, swollen welling abscess and clove sores. Isolated compounds: 22071.
- T5521 *Rhododendron przewalskii* (Ericaceae); LONG SHU DU JUAN; Przewalsk Rhododendron*. Used part: leaf. TCM Effects: To clear lung, relieve cough and transform phlegm. TCM Indications: Cough and asthma, abundant and sticky phlegm. Isolated compounds: 1161.
- T5522 *Rhododendron seniavinii* (Ericaceae); MAO GUO DU JUAN; Hairfruit Rhododendron*. Used part: root, stem-leaf and flower. TCM Effects: To relieve cough, dispel phlegm, calm asthma. TCM Indications: Chronic trachitis. Isolated compounds: 18317.
- T5523 *Rhododendron simsii* (Ericaceae); DU JUAN HUA; Indian Azalea. Used part: flower. TCM Effects: To harmonize blood, regulate menstruation, relieve cough, dispel wind-damp, resolve sore toxin. TCM Indications: Blood ejection, spontaneous external bleeding, flooding and spotting, menstrual disorder, cough, wind-damp impediment pain, sore toxin of welling abscess and boil. Isolated compounds: 1161, 3594, 4451, 13460, 13610, 13611, 14609, 16905.
- T5524 *Rhododendron simsii* (Ericaceae); DU JUAN HUA YE; Indian Azalea Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Swollen welling abscess and clove sores, bleeding due to external injury, urticaria. Isolated compounds: 1161, 1512, 6177, 13610.
- T5525 *Rhododendron* sp. (Ericaceae). Isolated compounds: 17170.
- T5526 *Rhododendron* spp. (Ericaceae). Isolated compounds: 16900.
- T5527 *Rhodomyrtus macrocarpa* (Myrtaceae); DA GUO TAO JIN NIANG; Bigfruit Rosemyrtle*. Isolated compounds: 18814.
- T5528 *Rhodomyrtus tomentosa* (Myrtaceae); SHAN REN YE; Downy Rosemyrtle Leaf. Used part: leaf. TCM Effects: To disinhibit damp and check diarrhea, engender flesh and stanch bleeding. TCM Indications: Headache, diarrhea, *gan* accumulation, bleeding due to external injury, scab sore. Isolated compounds: 1109, 1113, 2332, 2338, 13098.
- T5529 *Rhodomyrtus tomentosa* (Myrtaceae); TAO JIN NIANG; Rosemyrtle. Used part: fruit. TCM Effects: To nourish blood and stanch bleeding, astringe intestines and secure essence. TCM Indications: Blood vacuity and general weakness, blood ejection, nosebleed(epistaxis), taxation damage hemoptysis, hematochezia, flooding and spotting, emission, vaginal discharge, dysentery, prolapse of rectum, scalds, bleeding due to external injury. Isolated compounds: 3296, 3302, 16765, 21443.
- T5530 *Rhus chinensis* [Syn. *Rhus semialata*] (Anacardiaceae); YAN FU YE;

- Chinese Sumac Leaf. Used part: fresh leaf. TCM Effects: To relieve cough and transform phlegm, promote contraction and resolve toxin. TCM Indications: Phlegm cough, hematochezia, blood dysentery, night sweating, sore. Isolated compounds: 14454.
- T5531 *Rhus chinensis* [Syn. *Rhus semialata*] (Anacardiaceae); YAN FU ZI; Chinese Sumac Fruit. Used part: fruit. TCM Effects: To moisten lung and engender liquid, downbear fire and transform phlegm, constrain sweat, check dysentery. TCM Indications: Phlegm cough, throat impediment, jaundice, night sweating, dysentery, intractable lichen, welling abscess, head wind white scaling. Isolated compounds: 5515, 8095, 14454.
- T5532 *Rhus coriaria* (Anacardiaceae); XI XI LI QI SHU; Sumach. Isolated compounds: 7441, 8095.
- T5533 *Rhus lanceolata* (Anacardiaceae); PI ZHEN QI SHU; Lanceolate Sumac*. Isolated compounds: 19545.
- T5534 *Rhus pyroides* (Anacardiaceae). Isolated compounds: 18820.
- T5535 *Rhus retinorrhoea* (Anacardiaceae); SHU ZHI YAN FU MU; Resinoid Sumac*. Isolated compounds: 6409, 19174.
Rhus semialata = *Rhus chinensis*
- T5536 *Rhus* sp. (Anacardiaceae). Isolated compounds: 5613, 16836, 18864.
Rhus succedanea = *Toxicodendron succedaneum*
- T5537 *Rhus sylvestris* (Anacardiaceae); YE QI SHU YE; Woods Leaquertree Leaf. Used part: leaf. TCM Effects: To dispel stasis and disperse swelling, kill worms, resolve toxin. TCM Indications: Knocks and falls, bleeding due to external injury, ancylostomiasis, scab and lichen, sore toxin, poisonous snake bite. Isolated compounds: 1497, 5613, 5614, 7802.
- T5538 *Rhus sylvestris* (Anacardiaceae); YE QI SHU ZI; Woods Leaquertree. Isolated compounds: 18821, 18822.
- T5539 *Rhus taishanensis* (Anacardiaceae); TAI SHAN YAN FU ZI; Taishan Sumac Fruit. Isolated compounds: 18823.
- T5540 *Rhus typhina* (Anacardiaceae); LU JIAO QI SHU; Stag's-horn Sumach. Isolated compounds: 917, 8095.
- T5541 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*] (Anacardiaceae); QI ZI; True Lacquer Seed. Used part: seed. TCM Effects: To quicken blood and stanch bleeding, warm channels and relieve pain. TCM Indications: Hematochezia, hematuria, flooding and spotting, abdominal pain due to stagnation, amenorrhea. Isolated compounds: 2779, 5613, 6535, 6719, 20481.
- T5542 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*] (Anacardiaceae); SHENG QI; True Lacquer. Used part: balsam. TCM Effects: To kill worms. TCM Indications: Worm accumulation, water *gu*. Isolated compounds: 12424, 12425, 12426, 12427.
- T5543 *Rhynchochotum vestitum* (Gesneriaceae); MAO XIAN ZHU JU TAI; Hairy Rhynchochotum. Used part: whole herb. TCM Indications: Hepatitis A, Hepatitis B. Isolated compounds: 15077, 18828.
- T5544 *Ribes alpinum* (Saxifragaceae); GAO SHAN CHA BIAO; Alpine Currant. Isolated compounds: 13627, 15183, 18375.
- T5545 *Ribes fasciculatum* var. *chinense* (Saxifragaceae); HUA CHA BIAO; China Winterberry Currant. Used part: root. TCM Effects: To cool blood and clear heat, regulate menstruation. TCM Indications: Vacuity heat and hypodynamia, menstrual disorder [=menoxenia], dysmenorrhea. Isolated compounds: 2778, 3308, 4184, 5981, 8098, 10637, 13100, 14530, 15954, 19377.
- T5546 *Ribes nigrum* (Saxifragaceae); HEI CHA BIAO; Black Currant. Isolated compounds: 15593, 15594.
- T5547 *Ricinus communis* (Euphorbiaceae); BI MA GEN; Castorbean Root. Used part: root. TCM Effects: To dispel wind and resolve tetany, quicken blood and disperse swelling. TCM Indications: Tetanus, epilepsy, wind-damp impediment pain, knocks and falls, swollen welling abscess and scrofula, prolapse of rectum, prolapse of uterus. Isolated compounds: 4947, 21622.
- T5548 *Ricinus communis* (Euphorbiaceae); BI MA YE; Castorbean Leaf. Used part: leaf. TCM Effects: To draw out pus and relieve itch, relieve cough and calm asthma. TCM Indications: Beriberi, swelling pain of scrotum, cough of phlegm asthma, goose-foot wind, sore and boil. Isolated compounds: 15525, 18407, 18840.
- T5549 *Ricinus communis* (Euphorbiaceae); BI MA YOU; Castorbean Oil. Used part: oil expressed from seeds. TCM Effects: To lubricate intestines, moisten skin. TCM Indications: Dry stool, sore and scab, burns. Isolated compounds: 14932, 18841, 22028.
- T5550 *Ricinus communis* (Euphorbiaceae); BI MA ZI; Castorbean Seed. Used part: ripe seed. TCM Effects: To disperse swelling and draw out toxin, drain precipitation and free stagnation. TCM Indications: Swelling toxin of welling abscess and flat abscess, throat impediment, scrofula, dry stool. Isolated compounds: 4055, 4124, 6132, 6194, 18840, 18841, 19596, 20439.
- T5551 *River corymbosa* (Convolvulaceae); MO XI GE XUAN HUA; Mexico Glorybind*. Isolated compounds: 7240.
- T5552 *Robinia pseudoacacia* (Fabaceae); CI HUAI HUA; Black Locust Flower. Used part: flower. TCM Effects: To stanch bleeding. TCM Indications: Precipitate blood of large intestine, hemoptysis, flooding. Isolated compounds: 56, 61, 1482, 2779, 2785, 3059, 5702, 9522, 11504, 12908, 14712, 16843, 17470, 18642, 18857, 22122.
- T5553 *Robinia pseudomonas* (Fabaceae); JIA DAN BAO JUN YANG HUAI; Pseudomonas Locust*. Isolated compounds: 18859.
- T5554 *Rodgersia aesculifolia* (Saxifragaceae); MU HE; Fingerleaf Rodgersflower. Used part: rhizome. TCM Effects: To clear heat and transform damp, engender flesh and stanch bleeding. TCM Indications: Damp-heat dysentery, chronic diarrhea, white turbidity, vaginal discharge, flooding and spotting, blood ejection, spontaneous external bleeding, hematochezia, sore toxin, incised wound. Isolated compounds: 2312, 16884.
- T5555 *Rodgersia pinnata* (Saxifragaceae); YU YE GUI DENG QING; Featherleaf Rodgersflower. Used part: rhizome. TCM Effects: To quicken blood and regulate menstruation, dispel wind and eliminate damp, promote contraction and stanch bleeding. TCM Indications: Knocks and falls, fracture, menstrual disorder [=menoxenia], dysmenorrhea, wind-damp pain, bleeding due to external injury, enteritis, dysentery. Isolated compounds: 6403.
- T5556 *Rodgersia podophylla* (Saxifragaceae); RI BEN GUI DENG QING; Bronzeleaf Rodgersflower. Isolated compounds: 2039, 11897, 12021, 12022, 12082, 14034, 14035, 14688, 14689, 14695, 14696, 15184, 18319, 18320, 18337, 18411.
- T5557 *Rohdea japonica* [Syn. *Orontium japonicum*] (Liliaceae); WAN NIAN QING GEN; Omoto Nipponlily Root. Used part: root, rhizome and

- leaf. TCM Effects: To clear heat and resolve toxin, strengthen heart and disinhibit urine, cool blood and stanch bleeding. TCM Indications: Cardiac failure, swelling pain in throat, diphtheria, edema, ascites, hemoptysis, blood ejection, clove sore, erysipelas, snake bite, scalds, arrhythmia, dysentery. Isolated compounds: 2401, 4006, 4007, 7005, 7006, 11675, 11676, 18782, 18783, 18785, 18786, 18787, 18788, 18789, 20220.
- T5558 *Rollinia mucosa* (Annonaceae); NIAN ZHI LUO LIN; Mucosa Rollinia*. Isolated compounds: 13987, 16414, 18897, 18900, 18901, 18902, 18903, 18904, 18905, 18906.
- T5559 *Romalea microptera* HUANG CHONG; Grasshopper. Isolated compounds: 18426.
Rorippa dubia = *Rorippa montana*
- T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*] (Brassicaceae); HAN CAI; Indian Rorippa. Used part: whole herb. TCM Effects: To dispel phlegm and suppress cough, dissipate cold and resolve exterior, quicken blood and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Cough, cough of phlegm asthma, common cold with fever, non-eruption of measles, wind-damp impediment pain, swelling pain in throat, swollen welling abscess and clove sores, lacquer sore, amenorrhea, knocks and falls, jaundice, edema. Isolated compounds: 18908, 18909.
- T5561 *Rosa canina* (Rosaceae); QUAN CHI QIANG WEI; Dog Rose. Isolated compounds: 5763, 6428, 13212, 19039.
- T5562 *Rosa chinensis* (Rosaceae); YUE JI HUA; Chinese Rose. Used part: flower. TCM Effects: To quicken blood and regulate menstruation, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, dysmenorrhea, knocks and falls, blood stasis swelling and pain, scrofula, swollen welling abscess, scalds. Isolated compounds: 8095.
- T5563 *Rosa cymosa* (Rosaceae); XIAO GUO QIANG WEI GEN; Smallfruit Rose. Used part: root. TCM Effects: To dissipate stasis, stanch bleeding, disperse swelling, resolve toxin. TCM Indications: Bleeding due to external injury, knocks and falls, menstrual disorder [=menoxenia], prolapse of uterus, hemorrhoids, wind-damp pain, diarrhea, dysentery. Isolated compounds: 9385, 18894, 18895, 19057.
- T5564 *Rosa damascena* (Rosaceae); DA MA SHI GE QIANG WEI; Damask Rose. Isolated compounds: 8312.
- T5565 *Rosa gallica* (Rosaceae); FA GUO QIANG WEI; French Rose. Isolated compounds: 8312.
- T5566 *Rosa henryi* (Rosaceae); RUAN TIAO QI QIANG WEI; Henry's Rose. Used part: root. TCM Effects: To quicken blood and regulate menstruation, transform stasis and stanch bleeding. TCM Indications: Menstrual disorder [=menoxenia], infertility, bleeding due to external injury. Isolated compounds: 17884.
- T5567 *Rosa laevigata* (Rosaceae); JIN YING YE; Cherokee Rose Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, check discharge. TCM Indications: swollen welling abscess and clove sores, scalds, dysentery, amenorrhea, flooding and spotting, vaginal discharge, bleeding from wounds. Isolated compounds: 17750.
- T5568 *Rosa laevigata* (Rosaceae); JIN YING ZI; Cherokee Rose Seed. Used part: fruit. TCM Effects: To secure essence and reduce urine, astringe intestines and check diarrhea. TCM Indications: Emission, enuresis and frequent urination, flooding and spotting with vaginal discharge, chronic diarrhea and dysentery. Isolated compounds: 757, 758, 7657, 14440, 14512, 14523, 14591, 14765, 16422, 17750, 17884, 18916, 19276, 21458.
- T5569 *Rosa multiflora* (Rosaceae); QIANG WEI GEN; Japanese Rose Root. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, quicken blood and regulate menstruation, secure essence and reduce urine. TCM Indications: Swelling toxin of sore and welling abscess, scalds, mouth sore, bleeding from hemorrhoids, nosebleed(epistaxis), pain in joints, menstrual disorder, dysmenorrhea, chronic dysentery, enuresis, frequent urination, excessive leukorrhea, prolapse of uterus, bone stuck in throat. Isolated compounds: 6178, 14454, 15068, 15069.
- T5570 *Rosa roxburghii* (Rosaceae); CI LI; Roxburgh Rose. Used part: fruit. TCM Effects: To fortify stomach, disperse food, check diarrhea. TCM Indications: Food accumulation distention and fullness, enteritis and diarrhea. Isolated compounds: 18970, 20257.
- T5571 *Rosa rubiginosa* (Rosaceae); XIU HONG QIANG WEI; Sweet-briar. Isolated compounds: 19039.
- T5572 *Rosa rugosa* (Rosaceae); MEI GUI HUA; Rugose Rose Flower. Used part: bud. TCM Effects: To move *qi* and relieve depression, harmonize blood, relieve pain. TCM Indications: Liver stomach *qi* pain, reduced food intake with nausea and vomiting, menstrual disorder, painful wound from knocks and falls. Isolated compounds: 1735, 2284, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 3768, 4451, 7521, 8095, 8312, 8313, 9203, 9485, 9909, 9910, 9911, 10173, 10245, 11218, 11367, 11368, 11369, 11370, 11642, 12852, 13744, 15498, 15926, 17111, 18421, 18912, 18913, 19039, 19047, 19048, 19050, 19051, 19052, 19053, 19054, 19055, 19056, 19057, 19058, 19059, 19060, 19277, 19607, 20389, 21612.
- T5573 *Rosa sericea* (Rosaceae); JUAN MAO QIANG WEI; Silky Rose. Used part: root and fruit. TCM Effects: To fortify and move spleen, check dysentery and promote astriction. TCM Indications: Accumulation with abdominal distention, diarrhea, enduring dysentery, profuse menstruation, flooding and spotting [=metrorrhagia and metrostaxis]. Isolated compounds: 7657, 7658, 8682.
- T5574 *Rosa* sp. (Rosaceae). Isolated compounds: 1358, 3209, 7518, 7821, 16836, 18265, 20910.
- T5575 *Rosmarinus officinalis* (Lamiaceae); MI DIE XIANG; Rosemary. Used part: whole herb. TCM Effects: To effuse sweat, fortify spleen, quiet spirit, relieve pain. TCM Indications: Headache, prevention of hair loss in early stage. Isolated compounds: 1110, 1113, 2331, 2550, 2557, 3206, 6454, 6825, 7556, 8289, 10024, 10172, 10550, 11684, 12420, 13146, 17696, 18921, 18922, 18923, 18924, 20993, 20994, 20995, 22398.
- T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*] (Acanthaceae); JUE CHUANG; Creeping Rostellularia. Used part: dried whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and disperse stagnation, quicken blood and relieve pain. TCM Indications: Common cold with fever, cough, swelling pain in throat, red eyes with gall, *gan* accumulation, damp-heat diarrhea dysentery, malaria, jaundice, edema, pain in sinews and bones, knocks and falls, welling

- abscess and flat abscess with clove sore, eczema. Isolated compounds: 3638, 6490, 11977, 11978, 11979, 11980, 17872, 17955, 20645, 22077.
- T5577 *Rouya polygama* (Apiaceae). Isolated compounds: 18962, 18963, 18964, 18965, 18966, 18967.
- T5578 *Rubia cordifolia* (Rubiaceae); QIAN CAO GEN; Indian Madder Root. Equivalent plant: *Rubia schumannina*, *Rubia tinctorum*, *Rubia oncotricha*, *Rubia wallichiana*. Used part: root. TCM Effects: To cool blood and stanch bleeding, quicken blood and transform stasis. TCM Indications: Bleeding due to blood heat, amenorrhea due to blood stasis, knocks and falls, impediment pain in joints. Isolated compounds: 266, 899, 901, 3181, 5522, 9891, 9892, 10502, 13939, 13940, 13954, 13998, 14040, 14144, 14775, 14777, 14778, 14779, 14901, 15076, 15734, 16065, 18058, 18222, 18224, 18979, 18980, 18981, 18982, 18983, 18984, 18985, 18986, 18987, 18988, 18989, 18990, 18991, 18992, 18993, 18994, 19013, 19023, 19031, 19036, 19037, 19038, 21794, 21795, 22773.
- T5579 *Rubia cordifolia* (Rubiaceae); QIAN CAO TENG; Indian Madder Stem. Used part: aerial parts. TCM Effects: To stanch bleeding, move stasis. TCM Indications: Blood ejection, flooding, knocks and falls, wind impediment, lumbago, welling abscess toxin, swelling of clove. Isolated compounds: 19028, 19029.
- T5580 *Rubia cordifolia* var. *pratensis* (Rubiaceae); HEI GUO QIAN CAO; Blackfruit Madder. Isolated compounds: 19037, 19038.
- T5581 *Rubia iberica* (Rubiaceae). Isolated compounds: 15734.
- T5582 *Rubia oncotricha* (Rubiaceae); GOU MAO QIAN CAO; Hookedhair Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 11234, 19036.
- T5583 *Rubia schumannina* (Rubiaceae); DA YE QIAN CAO; Smoothstalk Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 14901.
- T5584 *Rubia tinctorum* (Rubiaceae); YANG QIAN CAO; Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 899, 901, 13041, 18222.
- T5585 *Rubia wallichiana* (Rubiaceae); GUANG JING QIAN CAO; Wallich Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 900, 901, 1360, 5522, 5990, 6017, 6537, 10206, 10380, 10414, 10415, 10417, 10467, 13041, 13045, 13640, 14775, 14776, 14778, 15077, 15734, 18222, 18224, 18998, 19000, 19024, 19025, 19026, 19540, 19542, 19983, 20369, 22270.
- T5586 *Rubia yunnanensis* (Rubiaceae); XIAO HONG SHEN; Yunnan Madder. Used part: root. TCM Effects: To quicken blood and soothe sinews, dispel stasis and engender flesh, nourish *qi* blood. TCM Indications: Wind-damp pain, knocks and falls, menstrual disorder [=menoxenia], menstrual block, vaginal discharge, postpartum arthralgia, tuberculosis and coughing of blood, dizzy head and insomnia, anemia. Isolated compounds: 303, 371, 496, 11477, 12520, 13986, 14775, 14777, 18983, 18990, 18995, 18996, 18997, 19001, 19002, 19003, 19004, 19005, 19006, 19007, 19008, 19009, 19010, 19011, 19012, 19014, 19015, 19016, 19017, 19018, 19019, 19020, 19021, 19022, 19032, 19033, 19034, 19035, 19618, 19983, 20369, 20566, 22332.
- T5587 *Rubus alceaefolius* (Rosaceae); CU YE XUAN GOU ZI; Roughleaf Raspberry. Used part: root and leaf. TCM Effects: To clear heat and disinhibit damp, stanch bleeding, dispel stasis. TCM Indications: Hepatitis, dysentery, enteritis, mastitis, stomatitis, march hematology, bleeding due to external injury, liver spleen enlargement, knocks and falls, wind-damp bone pain. Isolated compounds: 4088, 6178, 15539.
- T5588 *Rubus allegheniensis* (Rosaceae); PU TONG XUAN GOU ZI; Common Raspberry*. Isolated compounds: 19045.
- T5589 *Rubus chamaemorus* (Rosaceae); XUAN GOU ZI; Avrons. Isolated compounds: 19039.
- T5590 *Rubus chroosepalus* (Rosaceae); MAO E MEI; Hairyspal Raspberry. Isolated compounds: 6170.
- T5591 *Rubus cochinchinensis* (Rosaceae); SHE PAO JIN; Snakebubble Raspberry. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Wind-damp impediment pain, painful wound from knocks and falls, pain in lumbus and leg. Isolated compounds: 516.
- T5592 *Rubus hirsutus* (Rosaceae); CI BO; Hirsute Raspberry. Used part: root or leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, stanch bleeding. TCM Indications: Influenza, common cold, infant ardent fever convulsion, swelling pain in throat, toothache, headache, wind-damp pain in sinew and bone, scrofula, swollen boil. Isolated compounds: 21634.
- T5593 *Rubus idaeus* (Rosaceae); FU PEN ZI; Red-and-Yellow Garden Raspberry. Used part: fruit. TCM Effects: To supplement liver and boost kidney, secure essence and reduce urine, brighten eyes. TCM Indications: Impotence with premature ejaculation, emission, infertility due to uterus cold, frequent urination and enuresis, dizziness and dim vision, premature graying in beard and hair. Isolated compounds: 3594, 17886.
- T5594 *Rubus parkeri* (Rosaceae); WU PAO ZI; Parker Raspberry. Used part: root. TCM Effects: To regulate menstruation, stanch bleeding, dispel phlegm, relieve cough. TCM Indications: Menstrual disorder, menstrual block, concretion and conglomeration, flooding, spontaneous external bleeding, hematochezia, cough and abundant phlegm, sores. Isolated compounds: 21824.
- T5595 *Rubus parvifolius* (Rosaceae); MAO MEI; Japanese Raspberry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, kill worms. TCM Indications: Common cold with fever, cough with phlegm and blood, dysentery, knocks and falls, postpartum abdominal pain, scab sore, swollen boil, bleeding due to external injury. Isolated compounds: 15539.
- T5596 *Rubus rigidus* (Rosaceae); JIAN YING XUAN GOU ZI; Rigid Blackberry*. Isolated compounds: 18265.
- T5597 *Rubus sanctus* (Rosaceae); SHEN SHENG XUAN GOU ZI; Sanctity Blackberry*. Isolated compounds: 2930, 5409, 9503.
- T5598 *Rubus* sp. (Rosaceae). Isolated compounds: 3301.
- T5599 *Rubus* spp. (Rosaceae). Isolated compounds: 16765, 17750.
- T5600 *Rubus suavissimus* (Rosaceae); TIAN CHA; Sweet Blackberry*. Isolated compounds: 20341, 20433.
- T5601 *Rubus taiwanicus* (Rosaceae); XIAO YE XUAN GOU ZI; Small-leaf Raspberry. Isolated compounds: 15539, 15540, 15541.

- T5602 *Rubus ulmifolius* (Rosaceae); YU YE MAO MEI; Elm-leaf Raspberry*. Isolated compounds: 18972, 18973, 18974.
- T5603 *Rudbeckia bicolor* (Asteraceae); SHUANG SE JIN GUANG JU; Pinewoods Coneflower. Isolated compounds: 20665.
- T5604 *Rudbeckia laciniata* (Asteraceae); JIN GUANG JU; Cutleaf Coneflower. Used part: leaf. TCM Effects: To clear damp heat, resolve toxin and eliminate welling abscess. TCM Indications: Damp-heat vomiting diarrhea, abdominal pain, swollen welling abscess and sore toxin. Isolated compounds: 19046.
- T5605 *Rumex acetosa* (Polygonaceae); SUAN MO; Garden Sorrel. Used part: root. TCM Effects: To cool blood and stanch bleeding, drain heat and free stool, disinhibit urine, kill worms. TCM Indications: Blood ejection, hematochezia, profuse menstruation, heat dysentery, red eyes, constipation, urinary stoppage, strangury-turbidity, malign sore, scab and lichen, eczema. Isolated compounds: 3615, 3620, 6776, 15489, 17247, 17248, 22520.
- T5606 *Rumex acetosa* (Polygonaceae); SUAN MO YE; Garden Sorrel Leaf. Used part: leaf. TCM Effects: To drain heat, relieve constipation, disinhibit urine, cool liver and stanch bleeding, resolve toxin. TCM Indications: Swelling pain in throat, gum hemorrhage, spleen vacuity diarrhea, painful wound from knocks and falls, hemorrhoids. Isolated compounds: 22520.
- T5607 *Rumex crispus* (Polygonaceae); NIU ER DA HUANG; Crisped Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, free stool and kill worms. TCM Indications: Acute hepatitis, chronic hepatitis, enteritis, dysentery, chronic trachitis, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, heat bind constipation, swelling toxin of welling abscess and flat abscess, scab and lichen, bald sores. Isolated compounds: 3598, 3620, 6776.
- T5608 *Rumex dentatus* (Polygonaceae); NIU SHE CAO; Toothedfruit Dock. Used part: leaf. TCM Effects: To clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Red swollen breast. Isolated compounds: 967, 3615, 6776, 15489, 17247.
- T5609 *Rumex hastatus* (Polygonaceae); JI YE SUAN MO; Hastate Dock*. Used part: root or whole herb. TCM Effects: To effuse sweat and resolve exterior, dispel wind and eliminate damp, relieve cough, stanch bleeding. TCM Indications: Common cold, headache, pain in joints due to rheumatism, cough and asthma, knocks and falls, flooding and spotting. Isolated compounds: 12714.
- T5610 *Rumex hymenosepalus* (Polygonaceae); MO E SUAN MO; Canaigre. Isolated compounds: 12714.
- T5611 *Rumex japonicus* (Polygonaceae); YANG TI; Japanese Dock. Equivalent plant: *Rumex nepalensis*. Used part: root. TCM Effects: To clear heat and free stool, cool blood and stanch bleeding, kill worms and relieve itch. TCM Indications: Constipation, blood ejection, spontaneous external bleeding, intestinal wind bleeding, bleeding from hemorrhoids, flooding and spotting, scab and lichen, bald white scalp sore, swelling toxin of welling abscess and sore, knocks and falls. Isolated compounds: 3615, 6776, 7209, 15153, 15489, 17247, 21817.
- T5612 *Rumex nepalensis* (Polygonaceae); NI BO ER YANG TI; Nepal Dock. Used part: root. TCM Effects: See *Rumex japonicus*. TCM Indications: See *Rumex japonicus*. Isolated compounds: 3615, 6776, 15489, 17247.
- T5613 *Rumex obtusifolius* (Polygonaceae); DUN YE SUAN MO; Bluntleaf Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dispel stasis and disperse swelling, free stool, kill worms. TCM Indications: Tuberculosis and hemoptysis, pulmonary welling abscess, blood ejection, abdominal pain due to stagnation, knocks and falls, constipation, epidemic parotitis, swelling toxin of welling abscess and sore, scalds, scab and lichen, eczema. Isolated compounds: 13447, 15489.
- T5614 *Rumex patientia* (Polygonaceae); NIU XI XI; Patience Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, stanch bleeding and disperse swelling, free stool and kill worms. TCM Indications: Blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, red and white vaginal discharge, purpura, dysentery, hepatitis, constipation, inhibited urination, swelling toxin of welling abscess and sore, scab and lichen, knocks and falls, burns and scalds. Isolated compounds: 967, 3308, 3544, 3615, 3619, 6776, 6778, 6779, 12401, 13841, 15489, 16169, 16195, 16714, 16715, 17247, 18416, 19066.
- T5615 *Rumex* spp. (Polygonaceae). Isolated compounds: 3615.
- T5616 *Ruppia maritime* (Potamogetonaceae); HAI SHENG CHUN MAN ZAO; Marine Widgeonweed. Isolated compounds: 14408.
- T5617 *Ruprechtia triflora* (Polygonaceae). Isolated compounds: 6901.
- T5618 *Ruscus aculeatus* (Liliaceae); JIA YE SHU; Butchersbroom. Isolated compounds: 19070, 19074, 20219.
- T5619 *Russula cyanoxantha* (Russulaceae); LAN HUANG HONG GU; Blue-yellow Redmushroom*. Isolated compounds: 20153.
- T5620 *Russula delica* (Russulaceae); MEI WEI HONG GU; Milk-white Russula. Isolated compounds: 2497, 8013, 12434, 19075, 19076.
- T5621 *Russula lepida* (Russulaceae); DA HONG GU; Big Russula*. Isolated compounds: 4301, 4302.
- T5622 *Russula ochroleuca* (Russulaceae); HUANG BAI HONG GU; Pale Russula*. Isolated compounds: 21332.
- T5623 *Russula queletii* (Russulaceae). Isolated compounds: 17433, 17446.
- T5624 *Russula rosacea* (Russulaceae); KU HONG GU; Bitter Russula. Isolated compounds: 18910, 18911.
- T5625 *Ruta chalepensis* (Rutaceae); SUI ZHUANG YUN XIANG; Syrian Rue*. Isolated compounds: 9304, 11727, 19086.
- T5626 *Ruta graveolens* (Rutaceae); CHOU CAO; Common Rue. Used part: whole herb. TCM Effects: To dispel wind, abate fever, disinhibit urine, quicken blood, resolve toxin, disperse swelling. TCM Indications: Common cold with fever, wind-damp bone pain, infant fright wind, inhibited urination, diarrhea, mounting *qi*, amenorrhea, knocks and falls, heat toxin sores, eczema. Isolated compounds: 1613, 1614, 2309, 2833, 3457, 3857, 6306, 6511, 6708, 7703, 8984, 8985, 8986, 8987, 8988, 8989, 8991, 8992, 9304, 11601, 12254, 13572, 13904, 14246, 14379, 14675, 14682, 15698, 16488, 17297, 18086, 18759, 18829, 18831, 19077, 19078, 19079, 19083, 19084, 19085, 19086, 19087, 19427, 19919, 20002, 20438, 22195, 22219, 22225, 22781.
- T5627 *Ruta microcarpa* (Rutaceae); XIAO GUO YUN XIANG; Smallfruit Rue*. Isolated compounds: 19427.
- T5628 *Ruta montana* (Rutaceae); MENG DA NA YUN XIANG; Montana Rue*. Isolated compounds: 4836, 15689, 15690, 15691, 19777.
- T5629 *Ruta oreojasme* (Rutaceae); SHAN MO LI YUN XIANG;

Mountjasmine Rue*. Isolated compounds: 8989.

T5630 *Ruta pinnata* (Rutaceae); YU ZHUANG YUN XIANG; Pinnate Rue*. Isolated compounds: 2833, 9452, 11249.

T5631 *Ruta* sp. (Rutaceae). Isolated compounds: 22336, 22774.

T5632 *Ruta* spp. (Rutaceae). Isolated compounds: 22195.

T5633 *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*] (Rutaceae); LIU ZHUANG DAN YE YUN XIANG; Tuberculate Rue*. Isolated compounds: 9228, 9229, 17112, 22077.

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T5634 *Sabal blackburniana* (Arecaceae). Isolated compounds: 19103.

T5635 *Sabal causiarum* (Arecaceae). Isolated compounds: 19102.

T5636 *Sabal peregrina* (Arecaceae); WAI LAI CAI ZONG. Isolated compounds: 16380.

T5637 *Sabia schumanniana* (Sabiaceae); SI CHUAN QING FENG TENG; Szechwan Sabia. Used part: root. TCM Effects: To dispel wind and quicken blood, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, knocks and falls, lumbago, chronic cough and asthma. Isolated compounds: 1109, 6057, 6475, 10549, 16401, 20254.

T5638 *Sabia swinhoi* (Sabiaceae); JIAN YE QING FENG TENG; Sharpleaf Sabia. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, soothe sinews and quicken network vessels, eliminate wind-damp, relieve pain due to impediment. TCM Indications: Pain in joints due to rheumatism, weakness in sinews and bones. Isolated compounds: 19097, 19098.

T5639 *Sabina chinensis* (Cupressaceae); YUAN BAI; Chinese Juniper. Used part: leaf. TCM Effects: To dispel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, pain in joints due to rheumatism, urticaria, swelling toxin of flat abscess, urinary tract infection. Isolated compounds: 9, 1476.

T5640 *Sabina vulgaris* (Cupressaceae); CHOU BAI; Savin. Used part: branchlet or cone. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, itchy skin, headache, cough. Isolated compounds: 4289, 17592, 19101.

T5641 *Saccharum officinarum* (Poaceae); YAO YONG GAN ZHE; Sugarcane. Isolated compounds: 552, 10967, 20446.

T5642 *Saccharum sinensis* (Poaceae); GAN ZHE; Sweetcane Culm. Used part: stem. TCM Effects: To clear heat and engender liquid, moisten dryness and harmonize center, resolve toxin. TCM Indications: Heat vexation, diabetes mellitus, vomiting nausea, vacuity heat cough, dry stool, swelling of welling abscess, welling abscess and flat abscess with swelling sore. Isolated compounds: 552, 553, 1048, 3040, 7450, 7996, 8827, 13793, 14388, 18261, 20369.

T5643 *Saccogyna viticulosa* (Geocalycaceae). Isolated compounds: 927, 1758, 8951, 8952, 8953, 8954, 11407, 11437, 11458, 11791, 19106, 22583, 22999.

T5644 *Sageretia gracilis* (Rhamnaceae); XI QUE MEI TENG; Thin Sageretia. Isolated compounds: 21706.

Sageretia thea = *Sageretia theezans*

T5645 *Sageretia theezans* [Syn. *Sageretia thea*] (Rhamnaceae); QUE MEI TENG; Hedge Sageretia. Used part: root. TCM Effects: To downbear

qi and transform phlegm, dispel wind and disinherit damp. TCM Indications: Cough, asthma, stomachache, crane's knee wind, edema. Isolated compounds: 7951, 8759, 20444, 20711.

T5646 *Sagina japonica* [Syn. *Spergula japonica*] (Caryophyllaceae); QI GU CAO; Pearlwort. Used part: whole herb. TCM Effects: To cool blood and resolve toxin, kill worms and relieve itch. TCM Indications: Lacquer sore, bald sores, eczema, erysipelas, scrofula, innominate toxin swelling, poisonous snake bites, deep-source nasal congestion, decayed teeth, internal damage due to knocks and falls. Isolated compounds: 1595.

T5647 *Sagittaria sagittifolia* (Alismataceae); CI GU; Oldworld Arrowhead Corm. Used part: corm. TCM Effects: To cool blood and quicken blood, relieve cough and free strangury, resolve toxin and dissipate binds. TCM Indications: Postpartum blood stasis, retention of placenta, strangury, cough with phlegm and blood. Isolated compounds: 4289, 19124.

Salacia chinensis = *Salacia prinoides*

T5648 *Salacia prinoides* [Syn. *Salacia chinensis*] (Hippocrateaceae); SUO LA MU; Prinos-like Salacia. Used part: root. TCM Effects: To expel wind and eliminate damp, free channels and quicken blood. TCM Indications: Wind-damp impediment, blood stasis lumbago. Isolated compounds: 27, 1107, 1113, 3308, 3359, 5096, 6060, 6632, 6853, 6921, 7946, 7947, 7949, 7953, 10127, 10578, 11477, 13249, 13481, 13624, 13975, 16245, 18584, 19178, 19179, 19180, 19181, 19182, 21396, 21397, 21996, 22025, 22673.

T5649 *Salacia* sp. (Hippocrateaceae). Isolated compounds: 21397.

T5650 *Salix babylonica* (Salicaceae); LIU BAI PI; Babylon Weeping Willow Root-bast. Used part: bark or root cortex. TCM Effects: To dispel wind and disinherit damp, disperse swelling and relieve pain. TCM Indications: Wind-damp bone pain, wind swelling and pruritus, jaundice, strangury-turbidity, mammary welling abscess, toothache, burns and scalds. Isolated compounds: 19184.

T5651 *Salix babylonica* (Salicaceae); LIU ZHI; Babylon Weeping Willow Branch. Used part: branchlet. TCM Effects: To dispel wind, disinherit urine, relieve pain, disperse swelling. TCM Indications: Wind-damp impediment pain, strangury, white turbidity, urinary stoppage, infective hepatitis, wind swelling, clove sore, erysipelas, tooth decay, gum swelling. Isolated compounds: 17287, 19184.

T5652 *Salix caprea* (Salicaceae); HUANG HUA ER LIU; Goat Willow. Isolated compounds: 3308, 17884, 17890.

T5653 *Salix purpurea* (Salicaceae); SHUI YANG MU BAI PI; Bitter Willow Bast. Used part: bast. TCM Indications: Incised wound. Isolated compounds: 11693, 19184, 19191.

T5654 *Salix purpurea* (Salicaceae); SHUI YANG ZHI YE; Bitter Willow Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Chronic dysentery, swelling toxin of sore and welling abscess. Isolated compounds: 3454, 7285, 19184.

T5655 *Salix* sp. (Salicaceae). Isolated compounds: 3674, 19184, 20434.

T5656 *Salix* spp. (Salicaceae). Isolated compounds: 17720.

T5657 *Salsola collina* (Chenopodiaceae); ZHU MAO CAI; Common Russianthistle. Used part: whole herb. TCM Effects: To lower blood pressure, calm liver and subdue yang, moisten intestines and free stool. TCM Indications: Hypertension, headache, dizziness, insomnia,

- intestinal dry and constipation. Isolated compounds: 7777, 19195, 19196, 19197.
- T5658 *Salsola micranthera* (Chenopodiaceae). Isolated compounds: 20529.
- T5659 *Salvia aegyptiaca* (Lamiaceae); AI JI SHU WEI CAO; Egyptian Sage*. Isolated compounds: 6968, 14262, 14263.
- T5660 *Salvia blepharophylla* (Lamiaceae); JIE MAO YE SHU WEI CAO; Eyelid-leaf Sage*. Isolated compounds: 2501, 2502.
- T5661 *Salvia bowleyana* (Lamiaceae); NAN DAN SHEN; *Bowley Sage*. Used part: root. TCM Effects: To quicken blood and transform stasis, regulate menstruation and relieve pain. TCM Indications: Chest impediment and angina, vexation, heart palpitation, pain in stomach duct and abdomen, menstrual disorder [=menoxenia], menstrual pain, menstrual block, postpartum stasis stagnation abdominal pain, flooding and spotting, liver spleen enlargement, arthralgia, mounting *qi* (hernia), swelling of sores. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5662 *Salvia bracteata* (Lamiaceae); BAO PIAN SHU WEI CAO. Isolated compounds: 2584, 19208.
- T5663 *Salvia bucharica* (Lamiaceae). Isolated compounds: 2695, 2696.
- T5664 *Salvia bulleyana* (Lamiaceae); JI YE SHU WEI CAO; Hastateleaf Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5665 *Salvia canariensis* (Lamiaceae); JIA NA LI SHU WEI CAO; Canari Sage*. Isolated compounds: 19209.
- T5666 *Salvia candelabrum* (Lamiaceae); ZHU TAI SHU WEI CAO. Isolated compounds: 3064, 3065, 3066, 3067, 3068, 3069, 14210, 20465.
- T5667 *Salvia castanea* (Lamiaceae); LI SE SHU WEI CAO; Chestnut Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5668 *Salvia cilicica* (Lamiaceae); TU ER QI SHU WEI CAO; Turkish Sage*. Isolated compounds: 3, 10429.
- T5669 *Salvia cinnabarina* (Lamiaceae); ZHU HONG SHU WEI CAO. Isolated compounds: 19620.
- T5670 *Salvia dichroantha* (Lamiaceae); ER SE HUA SHU WEI CAO; Twocolor-flower Sage*. Isolated compounds: 5432, 5433, 5434.
- T5671 *Salvia digitaloides* (Lamiaceae); MAO DI HUANG SHU WEI CAO; Foxglove-like Sage. Used part: root. TCM Effects: To quicken blood and dispel stasis, disinhibit damp and resolve toxin. TCM Indications: Chest impediment and angina, menstrual disorder, menstrual pain, vaginal protrusion (prolapse of uterus), flooding and spotting, red and white vaginal discharge, malign sore and swelling toxin. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5672 *Salvia flava* (Lamiaceae); HUANG HUA SHU WEI CAO; Yellowflower Sage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, transform stasis and relieve pain. TCM Indications: Menstrual disorder, menstrual pain, menstrual block, flooding and spotting, blood ejection, wind-damp bone pain, mammary welling abscess, swelling of sores. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5673 *Salvia glutinosa* (Lamiaceae); JIAO ZHI SHU WEI CAO; Sticky Clary. Used part: root. TCM Effects: To promote contraction and stanch bleeding. TCM Indications: Blood ejection, hemoptysis, hematochezia. Isolated compounds: 5165, 5654, 8289, 11730, 16356.
- T5674 *Salvia greggii* (Lamiaceae); GE SHI SHU WEI CAO; Gregg Sage*. Isolated compounds: 19212, 19213, 19214, 19215, 19216.
- T5675 *Salvia hydrangea* (Lamiaceae); XIU QIU SHU WEI CAO. Isolated compounds: 277, 4965, 5603, 6374, 16050.
- T5676 *Salvia karabachensis* (Lamiaceae); KA LA BA DAN SHEN; Karaba Sage*. Isolated compounds: 20685.
- T5677 *Salvia lineata* (Lamiaceae); TIAO WEN SHU WEI CAO. Isolated compounds: 12879.
- T5678 *Salvia mellifera* (Lamiaceae); JU MI SHU WEI CAO; Melliferous Sage*. Isolated compounds: 17486.
- T5679 *Salvia microstegia* (Lamiaceae); XIAO GAI SHU WEI CAO; Microcap Sage*. Isolated compounds: 17486.
- T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen. Equivalent plant: *Salvia przewalskii*, *Salvia miltiorrhiza* f. *alba*. Used part: root. TCM Effects: To quicken blood and dispel stasis, regulate menstruation and relieve pain, nourish blood and quiet spirit, cool blood and disperse welling abscess. TCM Indications: Angina pectoris, cerebral atherosclerosis, diffusive intravascular clotting, thrombophlebitis, hepatitis, acute surgical infection, mastitis, erysipelas, otitis media, tonsillitis, bone marrow infection, menstrual disorder, dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, pain in heart and abdomen, concretion conglomeration accumulation and gathering, heat impediment swelling and pain, knocks and falls, heat entering construction-blood, vexation and agitation, insomnia and vexation, swelling toxin of welling abscess and sore, zoster, neurodermatitis, psoriasis. Isolated compounds: 2106, 2887, 4292, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4680, 4950, 4974, 5653, 5722, 5723, 5763, 6877, 7764, 9455, 10492, 10736, 10737, 11354, 11629, 11729, 11731, 12204, 12420, 12924, 12926, 13370, 14391, 14736, 14862, 14863, 14864, 14865, 14927, 15374, 15375, 15801, 16072, 16073, 17968, 18012, 18925, 19201, 19202, 19203, 19204, 19205, 19207, 19217, 19218, 19219, 19983, 20679, 20680, 20681, 20682, 20683, 20684, 20685, 20686, 20687, 20688, 21383, 22270.
- T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen. Used part: root. TCM Effects: See *Salvia miltiorrhiza*. TCM Indications: See *Salvia miltiorrhiza*. Isolated compounds: 20678, 21080.
- T5682 *Salvia officinalis* (Lamiaceae); YAO YONG DAN SHEN; Medicinal Sage. Isolated compounds: 3743, 12420, 13709, 14580, 19123.
- T5683 *Salvia officinalis* (Lamiaceae); YAO YONG DAN SHEN YE; Medicinal Sage Leaf. Isolated compounds: 1476, 3745, 8090, 9564, 9793, 9794, 9795, 14085, 21202.
- T5684 *Salvia pisidica* (Lamiaceae); DU YU SHU WEI CAO; *Salvia pisidica*. Isolated compounds: 17486.
- T5685 *Salvia plebeia* (Lamiaceae); LI ZHI CAO; Common Sage. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis, disinhibit water and disperse edema. TCM Indications: Common cold with fever, swelling pain in throat, lung heat cough, hemoptysis, blood ejection, hematuria, flooding and spotting, bleeding from hemorrhoids, nephritis with edema, white turbidity, dysentery, swelling toxin of welling abscess and sore,

- eczema titillation, knocks and falls, snake or insect bites. Isolated compounds: 5763, 7557, 7556, 9564, 9617.
- T5686 *Salvia polystachya* (Lamiaceae); DUO SUI SHU WEI CAO. Isolated compounds: 4937, 12879, 17682, 17683, 17684, 17685, 17686, 17687, 19210.
- T5687 *Salvia prionitis* (Lamiaceae); HONG GEN CAO; Hispid Sage. Used part: whole herb with root. TCM Effects: To course wind and clear heat, disinhibit damp, stanch bleeding, quiet fetus. TCM Indications: Common cold with fever, pneumonia with cough and asthma, swelling pain in throat, hepatitis with rib-side pain, diarrhea, dysentery, nephritis, blood ejection, fetal spotting (precipitation of blood in pregnancy). Isolated compounds: 4292, 4950, 5722, 5763, 9629, 10691, 12202, 14391, 14736, 17968, 18012, 19349, 19350, 19614, 20685, 20686, 20687.
- T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage. Used part: root. TCM Effects: See *Salvia miltiorrhiza*. TCM Indications: See *Salvia miltiorrhiza*. Isolated compounds: 2147, 2223, 3206, 4292, 4629, 5722, 5723, 5763, 6016, 6877, 7764, 10957, 14391, 14736, 15453, 17487, 17490, 17968, 18008, 18009, 18010, 18012, 18921, 19209, 20465, 20685, 20686, 20687.
- T5689 *Salvia przewalskii* var. *mandarinorum* (Lamiaceae); ZI DAN SHEN; Manchurian Sage*. Isolated compounds: 4292, 5722, 14391, 14736, 17968, 18011, 18012, 18013, 20685, 20686, 20687.
- T5690 *Salvia roborowskii* (Lamiaceae); NIAN MAO SHU WEI CAO; Roborowsk Sage. Used part: whole herb. TCM Effects: To clear liver, brighten eyes, relieve pain. TCM Indications: Red eyes with gall, eye screen, hepatitis, toothache. Isolated compounds: 199, 21514, 21518, 21519.
- T5691 *Salvia sclarea* (Lamiaceae); NAN OU DAN SHEN; Clary. Isolated compounds: 20686.
- T5692 *Salvia sinica* (Lamiaceae); NI DAN SHEN; Chinese Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5693 *Salvia splendens* (Lamiaceae); XI YANG HONG; Scarlet Sage. Isolated compounds: 14914.
- T5694 *Salvia* spp. (Lamiaceae); *Salvia* spp. Isolated compounds: 10792.
- T5695 *Salvia staminea* (Lamiaceae); XIONG RUI ZHUANG SHU WEI CAO; Staminate Sage*. Isolated compounds: 266, 1476, 1492, 3243, 4281, 7764, 10024, 13137, 13511, 14846, 16415, 19220, 19981, 19983, 19987, 20137, 20809.
- T5696 *Salvia tomentosa* (Lamiaceae); RONG MAO DAN SHEN; Tomentose Sage*. Isolated compounds: 3741, 6452.
- T5697 *Salvia trijuga* (Lamiaceae); SAN YE SHU WEI CAO; Threelaf Sage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, dispel stasis and engender flesh, boost kidney and quiet spirit. TCM Indications: Menstrual disorder, dysmenorrhea, menstrual block, flooding, kidney vacuity lumbago, impotence, insomnia, frequent dreaming, knocks and falls. Isolated compounds: 3916, 4088, 4292, 5722, 5763, 7657, 7764, 9620, 14391, 14736, 17968, 18012, 20465, 20685, 20686, 20687.
- T5698 *Salvia uliginosa* (Lamiaceae). Isolated compounds: 5017.
- T5699 *Salvia wagneriana* (Lamiaceae); Wiedemann Sage*. Isolated compounds: 5469, 9231, 17575, 17576, 17577.
- T5700 *Salvia wiedemannii* (Lamiaceae); WEI SHI SHU WEI CAO. Isolated compounds: 17486.
- T5701 *Salvia yunnanensis* (Lamiaceae); YUN NAN SHU WEI CAO; Yunnan Sage. Used part: root. TCM Effects: To quicken blood and dispel stasis, cool blood and stanch bleeding, nourish heart and quiet spirit, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, dysmenorrhea, menstrual block, persistent flow with abdominal pain, concretion and conglomeration, chest impediment and angina, arthralgia, mounting *qi* (hernia), flooding and spotting, blood ejection, spontaneous external bleeding, hacking of blood, blood vacuity and numbness in limbs, sleepless, amnesia, fright palpitation, fearful throbbing, mammary welling abscess, swelling of sores, stasis swelling from knocks and falls. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5702 *Samadera madagascariensis* (Simaroubaceae); MA DAO HUANG LIAN SHU; Fatraina (in Madagascar). Isolated compounds: 3355, 3571, 5705, 5706, 19221, 19222.
- T5703 *Samanea saman* (Fabaceae); YU SHU; Raintree. Isolated compounds: 15708.
- T5704 *Sambucus nigra* (Caprifoliaceae); XI YANG JIE GU MU; Black Elder. Used part: stem-branch. TCM Effects: See *Sambucus williamsii*. TCM Indications: See *Sambucus williamsii*. Isolated compounds: 412, 2288, 5639, 5640, 5641, 7821, 8675, 8676, 9590, 9840, 10953, 13640, 17409, 18000, 19226, 23000.
- T5705 *Sambucus sieboldiana* (Caprifoliaceae); LAN SHAI PIAO; Siebold Elder. Isolated compounds: 85, 5583, 5634, 5635, 13589, 13590, 16090, 16587.
- T5706 *Sambucus* sp. (Caprifoliaceae). Isolated compounds: 4451.
- T5707 *Sambucus williamsii* (Caprifoliaceae); JIE GU MU; Elder*. Equivalent plant: *Sambucus nigra*. Used part: stem-branch. TCM Effects: To dispel wind and disinhibit damp, quicken blood, stanch bleeding. TCM Indications: Wind-damp impediment pain, pain wind, osteoarthritis, acute nephritis, chronic nephritis, wind papules, knocks and falls, swelling pain from fracture, bleeding due to external injury. Isolated compounds: 2331.
- Sandoricum indicum* = *Sandoricum koetjape*
- T5708 *Sandoricum koetjape* [Syn. *Sandoricum indicum*] (Meliaceae); YIN DU SHAN DAO LIAN YE; Indian Katon. Isolated compounds: 19240, 19241, 19242, 19243, 19244.
- T5709 *Sanguinaria canadensis* (Rosaceae); MEI ZHOU XUE GEN CAO; Bloodroot. Isolated compounds: 19284.
- T5710 *Sanguinaria* spp. (Rosaceae). Isolated compounds: 3498.
- T5711 *Sanguisorba minor* (Rosaceae); XIAO DI YU; Small Burnet*. Isolated compounds: 3178, 6249.
- T5712 *Sanguisorba officinalis* (Rosaceae); DI YU; Garden Burnet. Used part: root. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin, disperse swelling and close sores. TCM Indications: Blood ejection, hemoptysis, duodenal ulcer, spontaneous external bleeding, hematuria, hematochezia, bleeding from hemorrhoids, blood dysentery, flooding and spotting, red and white vaginal discharge, swelling pain of welling abscess and sore, eczema, pudendal itch, burns and scalds, snake or insect bites. Isolated compounds: 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590,

- 1591, 3594, 4451, 6055, 6176, 7657, 8095, 10887, 14293, 14294, 14295, 14746, 14772, 14773, 16358, 17696, 17698, 18916, 19273, 19274, 19275, 19276, 19277, 19278, 19279, 19280, 19281, 19282, 19283, 19285, 19286, 19287, 19288, 20433, 21170, 21861, 21864, 21955, 23008, 23009.
- T5713 *Sanicula* sp. (Apiaceae). Isolated compounds: 12420.
- T5714 *Sansevieria trifasciata* (Liliaceae); HU WEI LAN; Snake Sansevieria. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Common cold, lung heat cough, toxin swelling of sores, knocks and falls, poisonous snake bite, scalds. Isolated compounds: 1.
- T5715 *Santalum album* (Santalaceae); TAN XIANG; Sandalwood. Used part: heartwood. TCM Effects: To rectify *qi* and harmonize stomach. TCM Indications: Pain in chest and abdomen, cold stomachache, vomiting of water due to congealing cold *qi* stagnation, coronary heart disease with pattern of *qi* stagnation and blood stasis. Isolated compounds: 2307, 4208, 5115, 5501, 5636, 7008, 7730, 8780, 9621, 10659, 10661, 12207, 15630, 15810, 19300, 19301, 19302, 19303, 19304, 19305, 19306, 19307, 19309, 19310, 19311, 20971, 20972, 20973.
- T5716 *Santolina oblongifolia*. Isolated compounds: 149.
- T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*] (Sapindaceae); PI SHAO ZI; Chuandian Soapberry Seed. Used part: fruit or seed. TCM Effects: To move *qi* and disperse accumulation, resolve toxin and kill worms. TCM Indications: Mounting *qi* (hernia), child *gan* accumulation, nipple moth, mumps, scab and *lai*, yellow-water sore, ascariasis. Isolated compounds: 18237, 18238, 18239.
- T5718 *Sapindus emarginatus* (Sapindaceae); AO TOUTOU WU HUAN ZI; Emarginate Soapberry Seed. Isolated compounds: 411, 9261, 16051.
- T5719 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI; Chinese Soapberry Seed. Used part: seed. TCM Effects: To clear heat, dispel phlegm, disperse accumulation, kill worms. TCM Indications: Throat impediment sore with gall, lung heat cough, aphonia, food stagnation, *gan* accumulation, roundworm reversal with abdominal pain, trichomoniasis, skin lichen, toxin swelling. Isolated compounds: 15029, 15030, 15031, 15032, 15033, 15034, 15035, 15036, 15037.
- T5720 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI PI; Chinese Soapberry Peel. Used part: pericarp. TCM Effects: To clear heat and resolve phlegm, relieve pain, disperse accumulation. TCM Indications: Throat impediment sore with gall, stomachache, mounting *qi*, wind-damp pain, worm accumulation, food stagnation, innominate toxin swelling. Isolated compounds: 15029, 15030, 15031, 15032, 15033, 15034, 15035, 15036, 15037, 19316, 19317, 19318, 19319, 19320.
- T5721 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI YE; Chinese Soapberry Leaf. Used part: branchlet-leaf. TCM Effects: To resolve toxin, suppress cough. TCM Indications: Snake bite, pertussis. Isolated compounds: 1476, 19316, 19317.
- T5722 *Sapium japonicum* (Euphorbiaceae); BAI MU WU JIU; Japanese Sapium. Used part: root cortex and leaf. TCM Effects: To dissipate stasis blood, strengthen lumbus and knees. TCM Indications: Taxation damage, aching in lumbus and knees. Isolated compounds: 4055.
- T5723 *Sapium sebiferum* (Euphorbiaceae); WU JIU MU GEN PI; Chinese Tallowtree Bark. Used part: root cortex. TCM Effects: To drain precipitation and expel water, dissipate binds and disperse swelling, resolve snake toxin, lower blood pressure. TCM Indications: Edema, ascites, urinary and fecal stoppage, hypertension, concretion conglomeration accumulation and gathering, painful swelling from clove sore, eczema, scab and lichen, poisonous snake bite. Isolated compounds: 4055, 6224, 8095, 19597, 22778.
- T5724 *Sapium sebiferum* (Euphorbiaceae); WU JIU YE; Chinese Tallowtree Leaf. Used part: leaf. TCM Effects: To drain precipitation and expel water, dissipate stasis and disperse swelling, resolve toxin and kill worms. TCM Indications: Swollen welling abscess and clove sores, sore and scab, foot lichen, eczema, snake bite, vaginitis. Isolated compounds: 8095.
- T5725 *Sapium* spp. (Euphorbiaceae). Isolated compounds: 17181.
Sapium sylvatica = *Stillingia sylvatica*
- T5726 *Saponaria officinalis* (Caryophyllaceae); FEI ZAO CAO; Soapwort. Used part: root. TCM Effects: To dispel wind and eliminate damp, dispel phlegm, disinhibit urine, kill worms. TCM Indications: Cough, skin diseases. Isolated compounds: 19331.
- T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*] (Apiaceae); FANG FENG; Divaricate Saposhnikovia. Used part: root. TCM Effects: To dispel wind and resolve exterior, overcome damp and relieve pain, resolve spasm, relieve itch. TCM Indications: Migraine, headache and generalized pain, common cold, rheumatoid arthritis, externally contracted wind-cold, wind-damp impediment pain, aching pain in joints, abdominal pain and diarrhea, intestinal wind bleeding, tetanus, wind papule itching, sores. Isolated compounds: 407, 2309, 2412, 3652, 4367, 4680, 5039, 6529, 7514, 7707, 8684, 9205, 9375, 9377, 9512, 9514, 9976, 11001, 12601, 12800, 14176, 14812, 15252, 15973, 15977, 15984, 16876, 16885, 17077, 17376, 17856, 18086, 19983, 20446.
- T5728 *Saprolegnia ferax*. Isolated compounds: 19976.
- T5729 *Saprosma scortechinii* (Rubiaceae); MA LAI BAN DAO RAN MU SHU; Malaya Dieingtree*. Isolated compounds: 5785, 5915, 6869, 13914, 13952, 13953, 19351, 19352, 21746, 21782.
- T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*] (Chloranthaceae); JIU JIE CHA; Glabrous Sarcandra. Used part: leaf and branchlet. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, numbness in limbs, knocks and falls, fracture, dysmenorrhea, postpartum blood stasis abdominal pain, pneumonia, acute appendicitis, bacillary dysentery, cholecystitis, abscess, stomatitis. Isolated compounds: 4143, 7996, 11428, 11792, 20444.
- T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (Buxaceae); YUN NAN YE SHAN HUA; Yunnan Sarcococca. Used part: whole herb. TCM Effects: To quicken blood and move *qi*, disperse swelling and relieve pain. TCM Indications: Pain in stomach duct, knocks and falls, innominate toxin swelling. Isolated compounds: 7177, 7198, 8009, 14449.
- T5732 *Sarcococca saligna* (Buxaceae); YE SHAN HUA; Willowleaf Sarcococca. Isolated compounds: 904, 19354, 19355, 19356.
- T5733 *Sarcococca vagans* (Buxaceae); HAI NAN YE SHAN HUA; Hainan Sarcococca. Used part: root. TCM Effects: To joint bones. TCM

- Indications: Fracture. Isolated compounds: 16501, 19362, 19363, 19364, 19365.
Sarcococca wallichii = *Sarcococca coriacea*
- T5734 *Sarcodon aspratus* (Thelephoraceae); Kotake (in Japanese). Isolated compounds: 10592.
- T5735 *Sarcodon glaucopus* (Thelephoraceae); CANG BAI BING ROU CHI JUN. Isolated compounds: 8521, 8522.
- T5736 *Sarcomelicope glauca*. Isolated compounds: 7830, 9226, 12254, 20002.
- T5737 *Sarcomelicope megistophylla*. Isolated compounds: 569, 776, 8027, 8028, 13651, 13652, 19359, 19618.
- T5738 *Sargassum micracanthum* (Sargassaceae); Brown alga; Gulfweed *Sargassum micracanthum*. Isolated compounds: 17516, 17517, 17518, 17519, 17520.
- T5739 *Sargassum parvivesiculosum* (Sargassaceae); XI NANG MA WEI ZAO; Parvivesiculose Gulfweed*. Isolated compounds: 5481, 6480, 6481, 9411, 14931.
- T5740 *Sargassum vachellianum* (Sargassaceae); WA SHI MA WEI ZAO; Vachelli Gulfweed*. Used part: frond. TCM Effects: To disperse phlegm, soften hardness, disinhibit water, abate swelling. TCM Indications: Goiter and carcinomas of neck, scrofula, bulging mounting, leg *qi* puffy swelling. Isolated compounds: 22307.
- T5741 *Sargentodoxa cuneata* (Sargentodoxaceae); DA XUE TENG; Sargentgloryvine. Used part: stem. TCM Effects: To clear heat and resolve toxin, quicken blood, dispel wind. TCM Indications: Intestinal welling abscess and abdominal pain, amenorrhea, dysmenorrhea, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 3551, 4362, 4363, 4364, 4365, 4366, 13834, 16254, 19366, 22333.
- T5742 *Sarracenia flava* (Sarraceniaceae); HUANG PING ZI CAO; Yellow Pitcherplant. Isolated compounds: 3988, 19387.
- T5743 *Sarracenia* sp. (Sarraceniaceae). Isolated compounds: 9568.
- T5744 *Sassafras albidum* (Lauraceae); MEI ZHOU CHA MU; Sassafras. Isolated compounds: 2538, 19121.
- T5745 *Sassafras randainense* (Lauraceae); TAI WAN CHA MU; Taiwan Sassafras. Isolated compounds: 7521, 13388, 18533.
- T5746 *Sassafras tzumu* (Lauraceae); CHA SHU; Common Sassafras. Used part: root, stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, stanch bleeding. TCM Indications: Wind-damp impediment pain, knocks and falls, taxation damage in lumbar muscle, hemiplegia, bleeding due to external injury. Isolated compounds: 7521.
- T5747 *Sauromatum guttatum* (Araceae); KU BAO; Monarch-of-the-East. Isolated compounds: 11025, 19187.
- T5748 *Sauropus androgynus* (Euphorbiaceae); TONG XU SHOU GONG MU; Geckowood. Isolated compounds: 11478, 19418.
- T5749 *Saururus cernuus* (Saururaceae); MEI ZHOU SAN BAI CAO; Lizard's-tail. Isolated compounds: 4920, 5624, 19404, 19415, 19416, 19417, 22383.
- T5750 *Saururus chinensis* (Saururaceae); SAN BAI CAO; Chinese Lizardtail. Used part: rhizome or whole plant. TCM Effects: To clear heat and disinhibit urine, resolve toxin and disperse swelling. TCM Indications: Edema, beriberi, jaundice, strangury-turbidity, vaginal discharge, swollen welling abscess, clove sore. Isolated compounds: 1692, 1695, 2039, 6410, 10887, 11642, 13292, 13474, 13475, 13992, 18411, 19398, 19399, 19400, 19401, 19402, 19403, 19404, 19405, 19406, 19407, 19417, 19419.
- T5751 *Saururus* sp. (Saururaceae). Isolated compounds: 13474, 13475, 19397, 19405, 19406.
- T5752 *Saussurea amarafisch* (Asteraceae). Isolated compounds: 19087, 20569.
Saussurea carthamoides = *Hemistepta lyrata*
- T5753 *Saussurea gnaphaloides* (Asteraceae); SHU QU FENG MAO JU; Cudweed-like Saussurea. Used part: whole herb with root. TCM Effects: See *Saussurea laniceps*. TCM Indications: See *Saussurea laniceps*. Isolated compounds: 19087, 20569.
- T5754 *Saussurea graminea* (Asteraceae); HE YE FENG MAO JU; Grassleaf Saussurea. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Common cold with fever, damp-heat jaundice, vomiting, diarrhea, blood ejection, bloody stool. Isolated compounds: 19087, 20569.
Saussurea hieracioides = *Saussurea superba*
- T5755 *Saussurea involucrata* (Asteraceae); XUE LIAN; Snow Lotus. Used part: whole herb with flower. TCM Effects: To warm kidney and invigorate *yang*, dispel wind and overcome damp, quicken blood and free menstruation. TCM Indications: Impotence, weakness in lumbus and knees, wind-damp impediment pain, menstrual disorder, amenorrhea, uterus cold and abdominal pain, cold rheum cough. Isolated compounds: 1621, 9385, 9500, 19087, 20569, 22809.
- T5756 *Saussurea japonica* (Asteraceae); FENG MAO JU; Wildhairdaisy. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 12522, 12523.
- T5757 *Saussurea laniceps* (Asteraceae); MIAN TOU XUE LIAN; Lanatchead Saussurea. Equivalent plant: *Saussurea medusa*, *Saussurea gnaphaloides*. Used part: whole herb with root. TCM Effects: To warm kidney and invigorate *yang*, regulate menstruation and stanch bleeding. TCM Indications: Impotence, limp aching lumbus and knees, vaginal discharge, menstrual disorder, wind-damp impediment, bleeding due to external injury. Isolated compounds: no.
- T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*] (Asteraceae); MU XIANG; Common Aucklandia (Costustoot). Used part: root. TCM Effects: To move *qi* and relieve pain, fortify spleen and disperse food. TCM Indications: Distending pain in chest and stomach duct, diarrhea and tenesmus, non-digestion of food accumulation, no thought of food and drink. Isolated compounds: 834, 1048, 1122, 1123, 1525, 1617, 1795, 2331, 3045, 3354, 3774, 3908, 4126, 4127, 4128, 4485, 4486, 4550, 4565, 4891, 5570, 5607, 5701, 5795, 6741, 6746, 7044, 8338, 8339, 8341, 8342, 8817, 9486, 9669, 10483, 11122, 11123, 11203, 11371, 11627, 12511, 12512, 12849, 12873, 12891, 13899, 15146, 17055, 18673, 19308, 19420, 19421, 19422, 19423, 19424, 19427, 19687, 19983, 20369, 20469, 20470, 20569, 20704, 22962.
- T5759 *Saussurea medusa* (Asteraceae); SHUI MU XUE LIAN; Medusa Saussurea. Used part: whole herb with root. TCM Effects: See *Saussurea laniceps*. TCM Indications: See *Saussurea laniceps*.

- Isolated compounds: 85, 1476, 1491, 1492, 1499, 1621, 1623, 2920, 2921, 3609, 3610, 3674, 11642, 12987, 13137, 13145, 13149, 14224, 17409, 17415, 18317, 19425, 19426, 19618, 20556.
- T5760 *Saussurea mongolica* (Asteraceae); MENG GU FENG MAO JU; Mongolian Saussurea*. Isolated compounds: 1847, 13983.
- T5761 *Saussurea neopulchella* (Asteraceae); XIN MEI FENG MAO JU; New Beauty Saussurea*. Isolated compounds: 19414.
- T5762 *Saussurea nigrescens* (Asteraceae); DUN BAO XUE LIAN; Blacken Saussurea. Used part: whole herb. TCM Effects: To quicken blood and regulate menstruation, clear heat and brighten eyes. TCM Indications: Menstrual disorder, steaming bone taxation fever, liver heat and red eyes. Isolated compounds: 19087, 20569.
- T5763 *Saussurea parviflora* (Asteraceae); XIAO HUA FENG MAO JU; Smallflower Saussurea*. Isolated compounds: 19087, 20569.
- T5764 *Saussurea petrovii* (Asteraceae). Isolated compounds: 7205, 20697, 20699, 20700, 20701, 20702.
- T5765 *Saussurea phaeantha* (Asteraceae); HE HUA XUE LIAN; Brownflower Saussurea. Isolated compounds: 20569.
- T5766 *Saussurea prostrata* (Asteraceae). Isolated compounds: 19087, 20569.
- T5767 *Saussurea pulchella* (Asteraceae); MEI HUA FENG MAO JU; Beautiful-flowered Saussurea. Used part: whole herb. TCM Effects: To dispel wind, clear heat, eliminate damp, relieve pain. TCM Indications: Common cold with fever, rheumatic arthritis, damp-heat diarrhea. Isolated compounds: 19087, 19414, 20569.
- T5768 *Saussurea salsa* (Asteraceae); YAN DI FENG MAO JU; Saline Saussurea. Isolated compounds: 4795.
- T5769 *Saussurea soroseris* (Asteraceae). Isolated compounds: 19087, 20569.
- T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*] (Asteraceae); CHANG MAO FENG MAO JU; Hawkweed-like Saussurea. Used part: whole herb. TCM Effects: To drain water retention. TCM Indications: Edema, ascites (hydroperitoneum), effusion in thorax. Isolated compounds: 20569.
- T5771 *Saussurea tridactyla* var. *maidugonla* (Asteraceae); CONG ZHU XUE LIAN. Isolated compounds: 20003.
- T5772 *Saxidomus giganteus* (Veneridae); BAI TA GE. Isolated compounds: 19431.
- T5773 *Saxifraga stolonifera* (Saxifragaceae); HU ER CAO; Creeping Rockfoil. Used part: whole herb. TCM Effects: To dispel wind and clear heat, cool blood and resolve toxin. TCM Indications: Wind papules, eczema, otitis media, erysipelas, cough with blood ejection, pulmonary welling abscess, flooding and spotting, hemorrhoids. Isolated compounds: 1618, 2312, 15719, 17895, 18369.
- T5774 *Scabiosa caucasica* (Dipsacaceae); GAO JIA SUO LAN PEN HUA; Caucasian Scabious*. Isolated compounds: 6454.
- T5775 *Scabiosa comosa* (Dipsacaceae); MENG GU SHAN LUO BO; Narrowleaf Scabious. Used part: flower. TCM Effects: To clear heat and drain fire. TCM Indications: Lung heat cough asthma, liver fire headache, red eyes, damp-heat jaundice. Isolated compounds: 1121, 6452, 8827, 15363.
- T5776 *Scabiosa soongorica* (Dipsacaceae); ZHUN GE ER LAN PEN HUA. Isolated compounds: 22839.
- T5777 *Scabiosa* spp. (Dipsacaceae). Isolated compounds: 3551.
- T5778 *Scabiosa tschiliensis* (Dipsacaceae); HUA BEI LAN PEN HUA; Huapei Scabious. Isolated compounds: 9632, 9633, 16701, 19433, 19434, 19435, 19436, 19437, 19438, 19439, 19440, 19441, 19442.
- T5779 *Scapania undulata* (Scapaniaceae); BO BAN HE YE TAI. Isolated compounds: 6740, 6744, 9332, 11509, 16911, 16976.
- T5780 *Scaphopetalum thonneri* (Sterculiaceae). Isolated compounds: 19456, 19457.
- T5781 *Schefflera arboricola* (Araliaceae); E ZHANG TENG; Scandent Schefflera. Used part: root or stem-leaf. TCM Effects: To dispel wind and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, headache, toothache, pain in stomach duct and abdomen, dysmenorrhea, postpartum abdominal pain, painful swelling from knocks and falls, fracture, swelling of sores. Isolated compounds: 1503, 1515, 17729, 18419, 18687, 18688, 18704, 18705, 18721, 18726.
- T5782 *Schefflera faguetti* (Araliaceae). Isolated compounds: 8662, 8717, 8718, 8749, 18690, 18692.
- T5783 *Schefflera rotundifolia* (Araliaceae); YUAN YE E ZHANG CHAI; Roundleaf Schefflera*. Isolated compounds: 1575, 2276, 2287, 2290, 8715, 8716, 10953, 18689, 18691, 18693, 18733, 22838.
- T5784 *Schefflera* spp. (Araliaceae). Isolated compounds: 12642.
- T5785 *Schefflera venulosa* (Araliaceae); MI MAI E ZHANG CHAI; Densevein Schefflera. Used part: stem cortex. TCM Effects: To dispel wind and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, pain in stomach duct, wound swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 3615, 6204, 19458.
- T5786 *Schinopsis* sp. (Anacardiaceae). Isolated compounds: 5613.
- T5787 *Schinopsis* spp. (Anacardiaceae). Isolated compounds: 3492.
- T5788 *Schinus molle* (Schisandraceae); ROU MAO XIAO RU XIANG; Hairy Peppertree*. Isolated compounds: 3462, 6938, 11530.
- T5789 *Schinus terebinthifolius* (Schisandraceae); XIAO RU XIANG; Brazilian Peppertree. Isolated compounds: 2380, 3188, 19101.
- T5790 *Schisandra arisanensis* (Schisandraceae); A LI SHAN WU WEI ZI; Taiwan Magnoliavine. Isolated compounds: 8907, 8912, 8917, 19465.
- T5791 *Schisandra chinensis* (Schisandraceae); WU WEI ZI; Chinese Magnoliavine. Equivalent plant: *Schisandra sphenanthera*. Used part: fruit. TCM Effects: To promote contraction and secure astriction, boost *qi* and engender liquid, quiet heart and spirit. TCM Indications: Enduring cough and vacuity asthma, dream emission, frequent urination and enuresis, incessant chronic diarrhea, spontaneous sweating and night sweating, fluid damage and thirst, palpitation and insomnia. Isolated compounds: 336, 1206, 1207, 1208, 1209, 1212, 2240, 2241, 2242, 2245, 2411, 2412, 2852, 3045, 3242, 3465, 3466, 3760, 3768, 3769, 3848, 4367, 4499, 4550, 5178, 5213, 6373, 6741, 6926, 7392, 8312, 8906, 8907, 8908, 8909, 8910, 8911, 8912, 8913, 8914, 8915, 8916, 8917, 8918, 8919, 8920, 8921, 8922, 8923, 8924, 8925, 8926, 9501, 11510, 11626, 11698, 12843, 12849, 12955, 12969, 14156, 14599, 15146, 15701, 15705, 15741, 15968, 15969, 17096, 17103, 17129, 17376, 17806, 18061, 19044, 19303, 19306, 19473, 19474, 19477, 19478, 19489, 19490, 19491, 19497, 19687, 19786, 20988, 20990, 20992, 20995, 21353, 21377, 21415, 22559, 22560, 22561.
- T5792 *Schisandra grandiflora* (Schisandraceae); DA HUA WU WEI ZI;

- Bigflower Magnoliavine*. Isolated compounds: 19472.
- T5793 *Schisandra henryi* (Schisandraceae); YI GENG WU WEI ZI; Henry Magnoliavine. Used part: rattan and root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, *qi* pain in heart and stomach, taxation damage and blood ejection, amenorrhea, menstrual disorder, knocks and falls, swelling toxin of incised wound. Isolated compounds: 1466, 8907, 12011, 19475, 19498, 22737, 22738.
- T5794 *Schisandra lancifolia* (Schisandraceae); XIA YE WU WEI ZI; Narrowleaf Magnoliavine*. Used part: lianoid stem and root. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Knocks and falls, fracture, wind-damp lumbago. Isolated compounds: 12473, 12474, 12475, 12476.
- T5795 *Schisandra micrantha* (Schisandraceae); XIAO HUA WU WEI ZI; Smallflower Magnoliavine*. Used part: root. TCM Effects: To dispel wind and disinhibit damp, rectify *qi* and quicken blood. TCM Indications: Wind-damp bone pain, knocks and falls, stomachache, menstrual disorder, nephritis. Isolated compounds: 10312, 12011, 14832, 14833, 14834, 19499.
- T5796 *Schisandra nigra* (Schisandraceae); NEI FENG XIAO; Black Magnoliavine*. Isolated compounds: 15570, 19476, 19499.
- T5797 *Schisandra propinqua* (Schisandraceae); HAN RUI WU WEI ZI; Angletwig Magnoliavine. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Influenza, poisonous snake bite, rabid dog bite, rheumatism numbness, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore. Isolated compounds: 1467, 17928, 17929, 19488.
- T5798 *Schisandra propinqua* var. *intermedia* (Schisandraceae); ZHONG JIAN WU WEI ZI; Intermediate Magnoliavine. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Influenza, poisonous snake bite, rabid dog bite, rheumatism numbness, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore. Isolated compounds: 1468, 1518, 1558, 13522, 17848.
- T5799 *Schisandra rubriflora* (Schisandraceae); HONG HUA WU WEI ZI; Redflower Magnoliavine. Used part: rattan. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Rheumatic arthritis. Isolated compounds: 5178, 5213, 8917, 8923, 12003, 19044, 19477, 19478, 19497.
- T5800 *Schisandra* sp. (Schisandraceae). Isolated compounds: 19479, 19480, 19481, 19482.
- T5801 *Schisandra sphaerandra* (Schisandraceae); QIU RUI WU WEI ZI; Ballander Magnoliavine. Isolated compounds: 15570.
- T5802 *Schisandra sphenanthera* (Schisandraceae); HUA ZHONG WU WEI ZI; Orange Magnoliavine. Used part: fruit. TCM Effects: See *Schisandra chinensis*. TCM Indications: See *Schisandra chinensis*. Isolated compounds: 1466, 1467, 5213, 8907, 8908, 8917, 15570, 19473, 19474, 19475, 19487, 19489, 19490, 19497, 19498.
- T5803 *Schistochila glaucescens* (Schistochilaceae); CANG BAI QI SHE TAI. Isolated compounds: 8247, 8248.
Schizocapsa plantaginea = *Tacca plantaginea*
- T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*] (Lamiaceae); JING JIE; Fineleaf Schizonepeta. Used part: aerial parts. TCM Effects: To dispel wind, resolve exterior, outthrust papules, stanch bleeding. TCM Indications: Common cold with fever, headache, itchy eye, cough, swelling pain in throat, measles papules, wind papules, swollen welling abscess, sore and scab, throat pain, conjunctivitis, child measles, spontaneous external bleeding, blood ejection, hemochezia, flooding and spotting, postpartum blood dizziness. Isolated compounds: 3045, 3242, 3674, 4550, 5868, 6741, 9456, 9458, 9670, 10069, 11639, 12843, 13137, 13776, 14271, 15978, 15979, 15983, 17376, 17377, 17452, 17456, 18190, 18925, 19503, 19504, 19505, 19506, 19507, 19508, 19509, 19510.
- T5805 *Schkuhria pinnata* (Asteraceae); SHI KU JU; Dwarf Marigold. Isolated compounds: 9570, 19511.
- T5806 *Schlumbergera truncata* (Cactaceae); XIE ZHUA LAN; Crab-craw Orchid*. Used part: aerial parts. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Toxin swelling of sores, parotitis. Isolated compounds: 15343.
- T5807 *Schnabelia tetradonta* (Lamiaceae); SI CHI SI LENG CAO; Fourteech Schnabelia. Isolated compounds: 313, 1476, 1480, 1560, 2056, 4680, 8745, 8767, 13580, 15133, 19983, 21144.
- T5808 *Schoenocaulon officinale* (Liliaceae); WEI JING BAI HE; *Schoenocaulon officinale*. Isolated compounds: 4337, 14963, 15058, 16471, 16472, 17283, 18647, 19512, 22382.
- T5809 *Scilla dracomontana* (Liliaceae). Isolated compounds: 5986.
- T5810 *Scilla maderensis* [Syn. *Autonoë madeirensis*] (Liliaceae); MA DE LI MIAN ZAO ER; Madrid Squill*. Isolated compounds: 1041.
- T5811 *Scilla nervosa* (Liliaceae). Isolated compounds: 5839, 6210, 6234, 6256, 9836, 9842, 9843, 9844, 9851, 10385, 10386, 10387, 10410, 13854, 13855, 13856.
- T5812 *Scilla peruviana* (Liliaceae); BI LU MIAN ZAO ER; Peru Squill*. Isolated compounds: 16997, 16998.
- T5813 *Scilla scilloides* (Liliaceae); MIAN ZAO ER; Common Squill. Used part: bulb or whole herb. TCM Effects: To quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Mammary welling abscess, knocks and falls, pain in sinews and bones, swelling pain of welling abscess and sore, edema due to heart disease. Isolated compounds: 17951, 19516, 19517, 19524, 19525, 19526.
- T5814 *Scleroderma citrinum* (Sclerodermataceae); HUANG YING PI MA BO; Yellow Hardpeel Puff-ball*. Isolated compounds: 422, 6298, 6394, 14321, 14670.
Scleroderma tinctorium = *Pisolithus tinctorius*
- T5815 *Scleropyrum wallichianum* (Santalaceae); YING HE; Wallich Scleropyrum. Isolated compounds: 19533, 19983, 19999, 20369, 20377.
- T5816 *Sclerotinia fruticola* (Sclerotiniaceae). Isolated compounds: 19534.
- T5817 *Scolopendra subspinipes mutilans* (Scolopendridae); WU GONG; Centipede. Used part: dried body. TCM Effects: To calm, lower blood pressure, extinguish wind and check tetany, resolve toxin and dissipate binds, free network vessels and relieve pain. TCM Indications: Acute fright wind, chronic fright wind, tetanus, spasm, convulsion, toxin swelling of sores and open sores, scrofula with ulceration, intractable headache with pulling sensation, wind-damp impediment pain, hypertension. Isolated compounds: 3585, 9568, 10190.

- T5818 *Scoparia dulcis* (Scrophulariaceae); YE GAN CAO; Sweet Broomwort. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and disperse edema. TCM Indications: Lung heat cough, summerheat-heat diarrhea, beriberi with general edema, child measles, papules, eczema, prickly heat, laryngitis, erysipelas. Isolated compounds: 1477, 1486, 3907, 6621, 7016, 7522, 11405, 19535, 19536, 19537, 19538, 19539, 21734.
- T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*] (Solanaceae); SAN FEN SAN; Acutangular Scopolia. Used part: root, leaf or seed. TCM Effects: To anesthetize and settle pain. TCM Indications: Stomachache, fracture, wind-damp pain, knocks and falls. Isolated compounds: 4417.
- T5820 *Scopolia carniolica* (Solanaceae); OU LANG DANG; European Scopolia. Isolated compounds: 10870.
- T5821 *Scopolia japonica* (Solanaceae); DONG LANG DANG; Japanese Scopolia. Used part: rhizome. TCM Effects: To resolve tetany and settle pain, constrain sweat and astringe intestines. TCM Indications: Various pains, mental manic agitation, swelling toxin of sore and welling abscess, anthrax, bleeding due to external injury, body lichen. Isolated compounds: 10870, 15760, 19542, 19545.
- T5822 *Scopolia sinensis* (Solanaceae); TIAN PENG ZI; Chinese Atropanthe. Used part: root. TCM Effects: To dissipate wind-cold, quicken network vessels and relieve pain. TCM Indications: Wind-cold-damp impediment, paralysis, painful wound from knocks and falls, tetanus. Isolated compounds: 2001.
- T5823 *Scopolia* spp. (Solanaceae). Isolated compounds: 10870.
Scopolia tangutica = *Anisodus tanguticus*
- T5824 *Scorzonera hispanica* (Asteraceae); XI JUAN YA CONG; Scorzonera. Isolated compounds: 3981.
- T5825 *Scorzonera humilis* (Asteraceae); AI SHENG YA CONG; Viper's-glass. Isolated compounds: 22160, 22161.
- T5826 *Scrophularia buergeriana* (Scrophulariaceae); BEI XUAN SHEN; Buerger Figwort. Used part: root. TCM Effects: See *Scrophularia ningpoensis*. TCM Indications: See *Scrophularia ningpoensis*. Isolated compounds: 2702, 2709, 2710, 2711, 2712, 2887, 3695, 4135, 7768, 9237, 9238, 13885, 13886, 13888, 13889, 13890, 13891, 14259.
- T5827 *Scrophularia lepidota* (Scrophulariaceae); LIN PIAN XUAN SHEN; Scale Figwort*. Isolated compounds: 815, 816, 1241, 2004, 3306, 5675, 11148, 14222, 19568, 19960.
- T5828 *Scrophularia ningpoensis* (Scrophulariaceae); XUAN SHEN; Ningpo Figwort. Equivalent plant: *Scrophularia buergeriana*. Used part: root. TCM Effects: To clear heat and cool blood, enrich *yin* and downbear fire, resolve toxin and dissipate binds. TCM Indications: Heat entering construction-blood, generalized fever, vexation and thirst, crimson tongue, macular eruption, steaming bone taxation cough, vacuity vexation and insomnia, fluid damage and constipation, dry eyes with clouded flowery vision, swelling pain in throat, scrofula with phlegm node, sore toxin of welling abscess and flat abscess. Isolated compounds: 410, 415, 1866, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2713, 3695, 6841, 7776, 8064, 9237, 9238, 9912, 10209, 10381, 14222, 15615, 15616, 15617, 15618, 15619, 15620, 15621, 16402, 19571, 19983.
- T5829 *Scrophularia nodosa* (Scrophulariaceae); LIN SHENG XUAN SHEN; Common Figwort. Isolated compounds: 3695, 6454, 9238.
- T5830 *Scurrula atropurpurea* (Loranthaceae); HEI ZI LI GUO JI SHENG; Black-purple Scurrula*. TCM Effects: Anticarcinoma. Isolated compounds: 2040, 2892, 3308, 6853, 6864, 6923, 10944, 12891, 12893, 15947, 15955, 15956, 16066, 18411, 19087, 21310.
- T5831 *Scutellaria altissima* (Lamiaceae); GAO HUANG QIN; Tall Skullcap. Isolated compounds: 19587.
- T5832 *Scutellaria amabilis* (Lamiaceae); KE AI HUANG QIN; Delightful Skullcap*. Isolated compounds: 5831, 5980, 9394, 15970, 21109, 21110, 21111, 21115, 21736, 21778, 21779.
- T5833 *Scutellaria amoena* (Lamiaceae); DIAN HUANG QIN; Yunnan Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 3600, 15815, 16216, 16846, 16848, 19580, 19581, 19983, 20009, 21108, 21114, 21775, 22718, 22720.
- T5834 *Scutellaria baicalensis* (Lamiaceae); HUANG QIN; Baikal Skullcap. Equivalent plant: *Scutellaria amoena*, *Scutellaria viscidula*, *Scutellaria likiangensis*, *Scutellaria rehderiana*, *Scutellaria hypericifolia*. Used part: root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin, stanch bleeding, quiet fetus. TCM Indications: Chest oppression with retching, diarrhea, jaundice, lung heat cough, infection of upper respiratory tract, acute tonsillitis, acute pharyngolaryngitis, ardent fever with vexation and thirst, blood heat, blood ejection, spontaneous external bleeding, swelling toxin of welling abscess and sore, stirring fetus in pregnancy. Isolated compounds: 1568, 1569, 2102, 2103, 2106, 3040, 3600, 5546, 5685, 5830, 6150, 6161, 7278, 9486, 10026, 10444, 10829, 11697, 11703, 13847, 13942, 15815, 16216, 16217, 16846, 16848, 17098, 17101, 19587, 19587, 19588, 19983, 20004, 20009, 20369, 20369, 20446, 21094, 21113, 21114, 21126, 21708, 21710, 21712, 21732, 21738, 21769, 21772, 21773, 21775, 21777, 21855, 22534, 22718, 22719, 22720.
- T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*] (Lamiaceae); BAN ZHI LIAN; Barbed Skullcap. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis, disinhibit urine and disperse edema. TCM Indications: Heat toxin swollen welling abscess, throat pain, pulmonary welling abscess, intestinal welling abscess, scrofula, poisonous snake bite, knocks and falls, blood ejection, spontaneous external bleeding, blood strangury, edema, ascites, carcinoma. Isolated compounds: 3223, 9831, 10028, 10829, 18853, 19582, 19587, 22718.
- T5836 *Scutellaria discolor* (Lamiaceae); ZI BEI HUANG QIN; Discolored Skullcap*. Used part: whole herb. TCM Effects: To resolve exterior and abate fever, relieve cough, clear heat and resolve toxin. TCM Indications: Common cold with fever, swelling pain in throat, vomiting diarrhea with abdominal pain, vacuity taxation cough, heat toxin sore and welling abscess, otitis media. Isolated compounds: 10028, 15815.
- T5837 *Scutellaria epilobifolia* (Lamiaceae); LIU YE CAI HUANG QIN; Willowweedleaf Skullcap. Isolated compounds: 15815.
- T5838 *Scutellaria galericulata* (Lamiaceae); BING TOU CAO; Galericulate Skullcap. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury, quicken blood and dissipate stasis. TCM Indications: Heat strangury, blood strangury,

- intestinal welling abscess, hepatitis, carcinoma, toxin swelling of sores, knocks and falls, poisonous insect stings. Isolated compounds: 8081.
- T5839 *Scutellaria hypericifolia* (Lamiaceae); CHUAN HUANG QIN; St. Johnswortleaf Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 21094, 22718, 22720.
- T5840 *Scutellaria indica* (Lamiaceae); HAN XIN CAO; Indian Skullcap. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, stanch bleeding and disperse swelling. TCM Indications: Swollen welling abscess and toxin of clove, pulmonary welling abscess, intestinal welling abscess, scrofula, poisonous snake bite, lung heat cough asthma, toothache, throat impediment, sore pharynx, pain in sinews and bones, blood ejection, hemoptysis, hematochezia, knocks and falls, bleeding due to external injury, itchy skin. Isolated compounds: 11703, 19582.
- T5841 *Scutellaria likiangensis* (Lamiaceae); LI JIANG HUANG QIN; Likiang Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 16216, 22718.
- T5842 *Scutellaria przewalskii* (Lamiaceae); AI YE HUANG QIN; Przewalsk Skullcap. Isolated compounds: 9564.
- T5843 *Scutellaria rehderiana* (Lamiaceae); GAN SU HUANG QIN; Rehder Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 21094, 22718.
Scutellaria rivularis = *Scutellaria barbata*
- T5844 *Scutellaria scordifolia* (Lamiaceae); BING TOU HUANG QIN; Twinflower Skullcap. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Hepatitis, cirrhosis with ascites, appendicitis, mastitis, snake or insect bites, knocks and falls. Isolated compounds: 2102, 2106.
- T5845 *Scutellaria viscidula* (Lamiaceae); ZHAN MAO HUANG QIN; Viscidhair Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 20009, 21094, 22718, 22720.
- T5846 *Scutia buxifolia* (Rhamnaceae); HUANG YANG YE DUI CI TENG; Boxleaf Scutia*. Isolated compounds: 3962, 19589, 19590, 19591, 19592, 19593, 19594, 19595.
- T5847 *Securidaca inappendiculata* (Polygalaceae); CHAN YI TENG; Cicadawingvine. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Knocks and falls, wind-damp bone pain, acute gastroenteritis, allergic dermatitis. Isolated compounds: 5845, 6012, 6013, 6182, 6183, 6357, 8306, 10046, 16109, 19643, 19645, 19646, 21791, 21792.
- T5848 *Securinega suffruticosa* (Euphorbiaceae); YI YE QIU; Suffrutescent Securinega. Used part: root and twig. TCM Effects: To dispel wind and quicken blood, boost kidney and strengthen sinews. TCM Indications: Neuralgia, recurrent neuritis, chronic ischiatitis, neurasthenia, depression, schizophrenia, senile dementia, wind-damp lumbago, numbness in limbs, impotence, child gan accumulation, facial paralysis, sequel of poliomyelitis. Isolated compounds: 940, 5712, 5738, 6044, 6045, 10052, 17214, 19639, 19640, 19641, 19642, 19644, 22529.
- T5849 *Sedum acre* (Crassulaceae); TAI JING TIAN; Biting Stonecrop. Isolated compounds: 2845, 12937, 16789, 19647, 19649.
- T5850 *Sedum aizoon* (Crassulaceae); FEI CAI; Aizoon Stonecrop. Used part: whole herb or root. TCM Effects: See *Sedum kamschaticum*. TCM Indications: See *Sedum kamschaticum*. Isolated compounds: 1618, 15177, 15179, 19649, 19650.
- T5851 *Sedum alfredii* [Syn. *Sedum formosanum*] (Crassulaceae); DONG NAN JING TIAN; Alfred Stonecrop. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and disperse swelling. TCM Indications: Blood ejection due to blood heat, spontaneous external bleeding, heat toxin swollen welling abscess. Isolated compounds: 12838.
- T5852 *Sedum bulbiferum* (Crassulaceae); XIAO JIAN CAO; Bulbiferous Stonecrop. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, interrupt malaria. TCM Indications: Heat toxin swollen welling abscess, gum swelling and pain, poisonous snake bite, bleeding due to blood heat, bleeding due to external injury, malaria. Isolated compounds: 1105, 1108.
- T5853 *Sedum cepaea* (Crassulaceae); XI PA JING TIAN; Cepaea Stonecrop*. Isolated compounds: 19379.
- T5854 *Sedum ewersii* (Crassulaceae); YI WO SI JING TIAN; Ewers Stonecrop*. Isolated compounds: 663.
Sedum formosanum = *Sedum alfredii*
- T5855 *Sedum kamschaticum* (Crassulaceae); HENG GEN FEI CAI; Orange Stonecrop. Equivalent plant: *Sedum aizoon*. Used part: whole herb or root. TCM Effects: To dissipate stasis, stanch bleeding, quiet heart and spirit, resolve toxin. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, knocks and falls, palpitation, insomnia, swollen welling abscess, sore and boil, burns and scalds, poisonous insect stings. Isolated compounds: 663, 8959, 8965, 11551, 14534, 15184.
- T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*] (Crassulaceae); FO JIA CAO; Linear Stonecrop. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Swelling pain in throat, red eyes with gall, heat toxin swollen welling abscess, clove sore, erysipelas, herpes zoster, burns and scalds, poisonous snake bites, jaundice, damp-heat dysentery, hematochezia, flooding and spotting, bleeding due to external injury, flat wart. Isolated compounds: 16211, 16212.
Sedum obtuso-lineare = *Sedum lineare*
- T5857 *Sedum sarmentosum* (Crassulaceae); SHI ZHI JIA; Stringy Stonecrop. Used part: whole herb. TCM Effects: To clear heat, disperse swelling, resolve toxin. TCM Indications: Swelling pain in throat, acute icterohepatitis, mastitis, heat strangury, swollen welling abscess, burns and scalds, snake bite, insect bites. Isolated compounds: 11648, 11655, 12015, 14534, 18317, 19377, 19650.
- T5858 *Sedum* spp. (Crassulaceae). Isolated compounds: 19647.
- T5859 *Selaginella braunii* (Selaginellaceae); MAO ZHI JUAN BAI; Braun's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, relieve cough. TCM Indications: Jaundice, dysentery, lung heat cough, burns and scalds. Isolated compounds: 1030, 4376,

8401.

- T5860 *Selaginella davidii* (Selaginellaceae); MAN SHENG JUAN BAI; David's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, soothe sinews and quicken network vessels. TCM Indications: Hepatitis, diarrhea, rheumatic arthritis, scalds, bleeding due to external injury. Isolated compounds: 1030, 4376.
- T5861 *Selaginella doederleinii* (Selaginellaceae); DA YE CAI; Doederlein's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, red eyes with gall, lung heat cough, mastitis, damp-heat jaundice, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 1030, 6547, 9473, 9647, 9648, 9649, 14797, 18865, 21192.
- T5862 *Selaginella involvens* (Selaginellaceae); YAN ZHOU JUAN BAI; Involute Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, relieve cough, stanch bleeding, resolve toxin. TCM Indications: Damp-heat jaundice, dysentery, edema, ascites, strangury syndrome, phlegm-damp cough, hemoptysis, blood ejection, hematochezia, flooding and spotting, bleeding due to external injury, mammary welling abscess, scrofula, hemorrhoids, scalds. Isolated compounds: 1030, 4376, 21504, 21505, 21506.
- T5863 *Selaginella moellendorffii* (Selaginellaceae); JIANG NAN JUAN BAI; Moellendorff Spikemoss. Used part: whole herb. TCM Effects: To stanch bleeding, clear heat, disinhibit damp. TCM Indications: Lung heat hemoptysis, blood ejection, spontaneous external bleeding, bloody stool, bleeding hemorrhoids, bleeding due to external injury, fever, infant fright wind, damp-heat jaundice, strangury, edema, burns and scalds. Isolated compounds: 1030, 4376.
- T5864 *Selaginella omeiensis* (Selaginellaceae); E MEI JUAN BAI; Emei Spikemoss*. Isolated compounds: 1030, 4376.
- T5865 *Selaginella pulvinata* (Selaginellaceae); DIAN ZHUANG JUAN BAI; Cushion-shaped Spikemoss. Used part: dried whole herb. TCM Effects: See *Selaginella tamariscina*. TCM Indications: See *Selaginella tamariscina*. Isolated compounds: 1030, 4376.
- T5866 *Selaginella sanguinolenta* (Selaginellaceae); YUAN ZHI JUAN BAI; Sanguineous Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and soothe sinews, stanch bleeding. TCM Indications: Damp-heat dysentery, knocks and falls, bleeding due to internal damage, bleeding due to external injury, burns and scalds. Isolated compounds: 1030, 8401.
- T5867 *Selaginella sinensis* (Selaginellaceae); ZHONG HUA JUAN BAI; Chinese Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, stanch bleeding. TCM Indications: Jaundice hepatitis, cholecystitis, nephritis, dysentery, eczema of lower limb, burns and scalds, bleeding due to external injury. Isolated compounds: 1030, 4376.
- T5868 *Selaginella stantoniana* (Selaginellaceae); HAN SHENG JUAN BAI; Staunton's Spikemoss. Used part: whole herb. TCM Effects: To dissipate stasis and relieve pain, cool blood and stanch bleeding. TCM Indications: Knocks and falls, static blood pain, bloody stool, bloody urine, endometriorrhagia. Isolated compounds: 1030, 4376, 8401.
- T5869 *Selaginella tamariscina* (Selaginellaceae); JUAN BAI; Tamariskoid Spikemoss. Equivalent plant: *Selaginella pulvinata*. Used part: dried whole herb. TCM Effects: To quicken blood and free menstruation (raw), transform stasis and stanch bleeding (scorch-fry). TCM Indications: Amenorrhea, concretion and conglomeration, knocks and falls, abdominal pain, asthma (raw), blood ejection, hematuria, hematochezia, prolapse of rectum (scorch-fry). Isolated compounds: 618, 1030, 1476, 4376, 5601, 9543, 11353, 20107, 20653, 20654, 20655, 21504, 21505, 21506.
- T5870 *Selaginella uncinata* (Selaginellaceae); CUI YUN CAO; Hooked Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Jaundice, dysentery, diarrhea, edema, strangury, impediment pain in sinew and bone, blood ejection, coughing of blood, hematochezia, bleeding due to external injury, hemorrhoids and fistulas, burns and scalds, snake bite. Isolated compounds: 1030, 4376, 6167, 9543, 22215, 22216.
- T5871 *Selenarctos thibetanus*; *Ursus arctos* (Ursidae); XIONG DAN; Bear Gall. Used part: gall bladder. TCM Effects: To clear heat and resolve toxin, calm liver and brighten eyes, stanch bleeding and kill worms. TCM Indications: Fright wind, epilepsy, convulsion due to liver heat and liver wind, swollen pain in red eyes due to liver heat, aversion to light, eye screen, swelling pain of welling abscess and sore, swelling pain from hemorrhoids. Isolated compounds: 351, 3511, 3588, 5161, 20733, 20734, 20735, 22269.
- T5872 *Selenarctos thibetanus*; *Ursus arctos* (Ursidae); XIONG ZHANG; Bear's Paw. Used part: paw. TCM Effects: To supplement *qi* and blood, dispel wind and eliminate impediment, fortify spleen and stomach. TCM Indications: Spleen-stomach vacuity, vacuity detriment. Isolated compounds: 16480, 16481.
- T5873 *Semecarpus heterophylla* (Anacardiaceae); YI YE ROU TUO GUO; Heteroleaf Markingnut*. Isolated compounds: 16622.
- T5874 *Senecio abrotanifolius* (Asteraceae); SONG YE QIAN LI GUANG; Pineleaf Groundsel. Isolated compounds: 11807.
- T5875 *Senecio adnatus* (Asteraceae); TIE SHENG QIAN LI GUANG; Adnate Groundsel*. Isolated compounds: 17546.
- T5876 *Senecio aegypticus* (Asteraceae); AI JI QIAN LI GUANG; Egyptian Groundsel. Isolated compounds: 18842.
- T5877 *Senecio aetnensis* (Asteraceae). Isolated compounds: 19698.
- T5878 *Senecio alpinus* (Asteraceae); YA KE BEI QIAN LI GUANG; Alpine Groundsel*. Isolated compounds: 11091, 11809.
- T5879 *Senecio ambrosioides* (Asteraceae); TUN CAO QIAN LI GUANG; Ragweed Groundsel*. Isolated compounds: 18842.
- T5880 *Senecio angulatus* (Asteraceae); LENG JIAO QIAN LI GUANG; Angulate Groundsel*. Isolated compounds: 1242.
- T5881 *Senecio brasiliensis* (Asteraceae); BA XI QIAN LI GUANG; Brazilian Groundsel*. Isolated compounds: 11091.
- T5882 *Senecio bupleuroides* (Asteraceae); CHAI HU ZHUANG QIAN LI GUANG; Thorowax-like Groundsel*. Isolated compounds: 11189.
- T5883 *Senecio cannabifolius* (Asteraceae); MA YE QIAN LI GUANG; Hempleaf Groundsel. Used part: whole herb with root. TCM Effects: To dissipate stasis, stanch bleeding, relieve pain. TCM Indications: Knocks and falls, static blood swelling pain, bleeding due to external injury. Isolated compounds: 3085, 3086, 5800, 9997.
- Senecio chinensis* = *Senecio scandens*

- T5884 *Senecio chrysanthemoides* (Asteraceae); TU SAN QI; Chrusanthemum-like Groundsel. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Toxin swelling of sores, painful swelling from knocks and falls. Isolated compounds: 19712.
- T5885 *Senecio cineraria* (Asteraceae); YIN BAI QIAN LI GUANG; Silver Ragwort. Isolated compounds: 11809.
Senecio dictyoneurus = *Ligularia dictyoneura*
- T5886 *Senecio eremophilus* (Asteraceae); SHA SHENG QIAN LI GUANG; Desertliving Groundsel*. Isolated compounds: 18842.
- T5887 *Senecio faberi* (Asteraceae); MI SAN QIAN LI GUANG; Faber Groundsel. Isolated compounds: 11091.
- T5888 *Senecio flavus* (Asteraceae); HUANG SE QIAN LI GUANG; Yellow Groundsel*. Isolated compounds: 7164, 7656, 14197, 16324, 16378, 19708.
- T5889 *Senecio integerrimus* (Asteraceae); QUAN YUAN QIAN LI GUANG; Entire Groundsel. Isolated compounds: 11091.
Senecio integrifolius var. *fauriei* = *Tephrosia kirilowii*
- T5890 *Senecio jacobaea* (Asteraceae); CAO DIAN QIAN LI GUANG; Ragwort. Isolated compounds: 11809, 19706, 19712, 19731.
Senecio japonica = *Ligularia japonica*
- T5891 *Senecio longifolius* (Asteraceae); CHANG YE QIAN LI GUANG; Longleaf Groundsel*. Isolated compounds: 11189, 17776.
- T5892 *Senecio nemorensis* (Asteraceae); HUANG WAN; Shady Groundsel. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, enteritis, hepatitis, conjunctivitis, otitis media, welling abscess and boil, toxin of clove sore. Isolated compounds: 4547, 4564, 13320, 19388.
- T5893 *Senecio nudicaulis* (Asteraceae); ZI BEI TIAN KUI CAO; Nudicaulous Groundsel Herb. Used part: whole herb. TCM Effects: To quicken blood and regulate menstruation. TCM Indications: Menstrual disorder, postpartum abdominal pain, knocks and falls. Isolated compounds: 13457.
- T5894 *Senecio oryzetorum* (Asteraceae); DA BAI DING CAO; Field Groundsel. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: White mouth sore in children, clove sore. Isolated compounds: 7821, 12535, 17546, 18305, 18316, 18667, 19388, 19706, 19712.
- T5895 *Senecio paucicaucylatus* (Asteraceae); SHAO FU E QIAN LI GUANG; Fewcalycle Groundsel*. Isolated compounds: 11189.
- T5896 *Senecio phillicus* (Asteraceae); FEI LV BIN QIAN LI GUANG; Philippine Groundsel*. Isolated compounds: 18667, 19712.
- T5897 *Senecio platyphyllus* (Asteraceae); KUAN YE QIAN LI GUANG; Broadleaf Groundsel*. Isolated compounds: 17546, 19712.
- T5898 *Senecio polyodon* (Asteraceae); DUO CHI QIAN LI GUANG; Manytoothed Groundsel*. Isolated compounds: 11591.
- T5899 *Senecio pseudoorientalis* (Asteraceae); JIA DONG FANG QIAN LI GUANG; Pseud-oriental Groundsel*. Isolated compounds: 9318.
- T5900 *Senecio pyramidatus* (Asteraceae); JIN ZI TA XING QIAN LI GUANG; Pyramidal Groundsel*. Isolated compounds: 2119.
- T5901 *Senecio renardii* (Asteraceae); LEI SHI QIAN LI GUANG; Renard Groundsel*. Isolated compounds: 19731.
- T5902 *Senecio retrorsus* (Asteraceae); WAN QU QIAN LI GUANG; Retrorse Groundsel*. Isolated compounds: 18667.
- T5903 *Senecio riddellii* (Asteraceae); RUI DE QIAN LI GUANG; Riddell Groundsel. Isolated compounds: 18842.
- T5904 *Senecio rivularis* (Asteraceae); XI QIAN LI GUANG; Rivulet Groundsel*. Isolated compounds: 18854.
- T5905 *Senecio rosmarinifolius* (Asteraceae); MI DIE XIANG YE QIAN LI GUANG; Rosmarin-leaf Groundsel*. Isolated compounds: 18926.
- T5906 *Senecio sarracenicus* (Asteraceae); PING QIAN LI GUANG; Bottle Groundsel*. Isolated compounds: 19388.
- T5907 *Senecio scandens* [Syn. *Senecio chinensis*] (Asteraceae); QIAN LI GUANG; Climbing Groundsel. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, eliminate screen and brighten eyes, kill worms and relieve itch. TCM Indications: Wind-fire eye, conjunctivitis, eye screen, typhoid fever, acute bacillary dysentery, pneumonia, lobar pneumonia, tonsillitis, appendicitis, bronchitis, enteritis, jaundice, influenza, toxemia, hematosepsis, swelling toxin of welling abscess and boil, dry lichen, damp lichen, erysipelas, eczema, scalds, trichomoniasis. Isolated compounds: 3592, 7821, 8012, 9740, 10608.
- T5908 *Senecio sceleratus* (Asteraceae); LA QIAN LI GUANG; Smirch Groundsel*. Isolated compounds: 19461.
- T5909 *Senecio selloi* (Asteraceae). Isolated compounds: 7087, 7088.
- T5910 *Senecio* sp. (Asteraceae). Isolated compounds: 10775.
- T5911 *Senecio* spp. (Asteraceae). Isolated compounds: 3551, 17546.
- T5912 *Senecio squalidus* (Asteraceae); NIU JIN QIAN LI GUANG; Oxford Ragwort. Isolated compounds: 11091.
- T5913 *Senecio sylvaticus* (Asteraceae); YE SHENG QIAN LI GUANG; Heath Groundsel. Isolated compounds: 19388.
- T5914 *Senecio vernalis* (Asteraceae); CHUN QIAN LI GUANG; Eastern Groundsel. Isolated compounds: 19714, 19731.
- T5915 *Senecio vulgaris* (Asteraceae); OU ZHOU QIAN LI GUANG; Common Groundsel. Isolated compounds: 7821, 18667, 18842, 19706, 19712.
- T5916 *Senna spectabilis* (Fabaceae); ZHUANG GUAN FAN XIE; Spectacular Senna*. Isolated compounds: 2260, 3292, 5327, 10510, 10511.
- T5917 *Sequoia gigantea* (Taxodiaceae); JU SHAN; Giant Sequoia. Isolated compounds: 17181.
- T5918 *Sequoia sempervirens* (Taxodiaceae); BEI MEI HONG SHAN; Redwood. Isolated compounds: 17181.
- T5919 *Sequoia* sp. (Taxodiaceae). Isolated compounds: 3983.
- T5920 *Seriphidium cinum* [Syn. *Artemisia cina*] (Asteraceae); HUI HAO; Chinese Seriphidium. Used part: inflorescence and leaf. TCM Effects: To kill worms. TCM Indications: Ascariasis, oxyuria disease. Isolated compounds: 1798, 3760, 19313.
- T5921 *Seriphidium finitum* [Syn. *Artemisia finita*] (Asteraceae); DONG BEI HUI HAO; Northeast Seriphidium. Used part: flower. TCM Effects: To expel worms. TCM Indications: Ascariasis, oxyuria disease. Isolated compounds: 7801, 19314.
- T5922 *Serratula strangulata* (Asteraceae); YI BAO MA HUA TOU; Contracted Sawwort. Isolated compounds: 3390, 6427, 6429, 6430, 10065.
- T5923 *Sesamum indicum* (Pedaliaceae); HU MA GEN; Oriental Sesame Root.

- Isolated compounds: 1368, 1369, 1370, 3572, 7200, 10709, 14661, 14663.
- T5924 *Sesamum indicum* (Pedaliaceae); HU MA YE; Oriental Sesame Leaf. Used part: leaf. TCM Effects: To boost *qi*, supplement brain and marrow, strengthen sinews and bones. TCM Indications: Wind-cold-damp impediment, flooding, blood ejection, damp itchy in genitals. Isolated compounds: 3052, 16757, 16758.
- T5925 *Sesamum indicum* [Syn. *Sesamum orientale*] (Pedaliaceae); BAI ZHI MA; Oriental Sesame (white seed). Used part: white seed. TCM Effects: To supplement liver and boost kidney, nourish blood and boost essence, moisten intestines and free stool. TCM Indications: Lassitude in lumbar and knees, premature graying in beard and hair, dry cracked skin, intestinal dry and constipation, scant breast milk, welling abscess and eczema, scrofula, burns and scalds, hemorrhoids. Isolated compounds: 3052, 19779.
- T5927 *Sesamum indicum* [Syn. *Sesamum orientale*] (Pedaliaceae); HEI ZHI MA; Oriental Sesame (black seed). Used part: black seed. TCM Effects: To supplement liver and kidney, boost essence and blood, moisten intestines. TCM Indications: Dizziness, tinnitus and deafness, premature graying in beard and hair, hair loss during convalescence, intestinal dry and constipation. Isolated compounds: 3052, 3774, 7853, 16066, 19777, 19779, 19780, 19781.
Sesamum orientale = *Sesamum indicum*
- T5926 *Sesbania sesban* (Fabaceae); AI JI TIAN JING; Indian Sesbania. Isolated compounds: 18229.
- T5928 *Seseli campestre* (Apiaceae); PING DI XI FENG QIN; Campestral Seseli*. Isolated compounds: 17757.
- T5929 *Seseli ericephalum* (Apiaceae); MIAN MAO XIE HAO; Woolly Seseli*. Isolated compounds: 18165.
- T5930 *Seseli grandivittatum* (Apiaceae); DA TIAO WEN XIE HAO; Bigstreak Seseli*. Isolated compounds: 4863.
- T5931 *Seseli incanum* (Apiaceae); HUI BAI XIE HAO; Greywhite Seseli*. Isolated compounds: 6507.
- T5932 *Seseli indicum* (Apiaceae); YIN DU XIE HAO; Indian Seseli*. Isolated compounds: 19784.
- T5933 *Seseli libanotis* (Apiaceae); LI BA NEN XIE HAO; Moon-carrot. Isolated compounds: 1960, 6507.
- T5934 *Seseli meirei* (Apiaceae); SAN YE FANG FENG; Bambooleaf Seseli. Equivalent plant: *Seseli yunnanense*. Used part: root. TCM Effects: To dispel wind and overcome damp, relieve pain and check tetany. TCM Indications: Common cold, headache, toothache, distending pain in stomach duct, diarrhea, wind-damp impediment pain, paralysis, tetanus, fright wind, wind papules, eczema, swelling of sores. Isolated compounds: 2309.
- T5935 *Seseli* sp. (Apiaceae). Isolated compounds: 2309.
- T5936 *Seseli tortuosum* (Apiaceae); XUAN NIU XIE HAO; Tortuous Seseli*. Isolated compounds: 17764, 19227.
- T5937 *Seseli yunnanense* (Apiaceae); SONG YE FANG FENG; Yunnan Seseli. Used part: root. TCM Effects: See *Seseli meirei*. TCM Indications: See *Seseli meirei*. Isolated compounds: 7707, 11001.
- T5938 *Setaria italica* (Poaceae); SU MI; Foxtail Millet. Used part: kernel. TCM Effects: To harmonize center, boost kidney, eliminate heat, resolve toxin. TCM Indications: Spleen-stomach vacuity heat, stomach reflux vomiting, reduced food intake with abdominal distention, diabetes mellitus, diarrhea, scalds. Isolated compounds: 1048, 4650, 5509, 8809, 13126.
- T5939 *Shiraia bambusicola* (Clavicipitaceae); ZHU XUANG; Bamboo Yellow*. Used part: stroma and spore. TCM Effects: To transform phlegm and relieve cough, quicken blood and dispel wind, disinherit damp. TCM Indications: Cough and abundant phlegm, pertussis, vaginal discharge, stomachache, wind-damp impediment pain, infant fright wind, knocks and falls. Isolated compounds: 19834, 19835, 19836.
- T5940 *Sickingia tinctoria* (Rubiaceae); RAN LIAO SI SHI MU. Isolated compounds: 16152.
- T5941 *Sickingia williamsii* (Rubiaceae); WEI LIAN SI SHI MU. Isolated compounds: 16152.
- T5942 *Sida acuta* (Malvaceae); HUANG HUA REN; Acute Sida. Used part: leaf or root. TCM Effects: To clear damp heat, resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Damp-heat diarrhea dysentery, mammary welling abscess, hemorrhoids, toxin swelling of sores, knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 85, 1380, 1381, 1386, 1425, 4282, 6815, 7788, 12953, 19542, 22615.
- T5943 *Sida cordifolia* (Malvaceae); HUANG HUA ZI; Cordateleaf Sida. Used part: leaf or root. TCM Effects: To clear heat and disinherit damp, relieve cough, resolve toxin and eliminate welling abscess. TCM Indications: Damp-heat jaundice, dysentery, diarrhea, strangury, fever and cough, asthma, swelling toxin of welling abscess and sore. Isolated compounds: 14795, 16770, 17083, 18024, 22349, 22350.
- T5944 *Sida spinosa* (Malvaceae); DUO CI HUANG HUA REN; Spiny Sida*. Isolated compounds: 8812, 10204.
- T5945 *Sideritis moorei* (Lamiaceae); MU ER DU MA CAO; Moor Sideritis*. Isolated compounds: 168, 169, 296, 297, 298, 299, 5940.
- T5946 *Sideritis ozturkii* (Lamiaceae). Isolated compounds: 580, 6851, 7151, 12725, 12878, 13580, 16482, 16483, 16484, 19873, 19874.
- T5947 *Sideritis* sp. (Lamiaceae). Isolated compounds: 3741.
- T5948 *Sideritis* spp. (Lamiaceae). Isolated compounds: 22768.
Siegesbeckia glabrescens = *Siegesbeckia orientalis* var. *glabrescens*
- T5949 *Siegesbeckia gummifer* (Asteraceae); JIAO XI XIAN; Gummy St. Paulswort*. Isolated compounds: 5930.
- T5950 *Siegesbeckia orientalis* (Asteraceae); XI XIAN; Common St. Paulswort. Equivalent plant: *Siegesbeckia orientalis* var. *pubescens*, *Siegesbeckia orientalis* var. *glabrescens*. Used part: aerial parts. TCM Effects: To dispel wind-damp, free channels and network vessels, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, lassitude in lumbus and knees, hemiplegia, hypertension, malaria, jaundice, swelling toxin of welling abscess and sore, wind papules, damp sore, animal and insect bites. Isolated compounds: 445, 2852, 4661, 4662, 5955, 7215, 7216, 9755, 10920, 10921, 11623, 12230, 16186, 16187, 16188, 16196, 16320, 16434, 16435, 16436, 18175, 18176, 18177, 18178, 19875, 19876, 19878, 19879, 20369, 21149, 21150.
- T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*] (Asteraceae); MAO GENG XI XIAN; Hairstalk St. Paulswort. Used part: aerial parts. TCM Effects: See *Siegesbeckia*

- orientalis*. TCM Indications: See *Siegesbeckia orientalis*. Isolated compounds: 445, 7768, 9370, 15390, 20444.
- T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*] (Asteraceae); XIAN GENG XI XIAN; Glandularstalk St. Paulswort. Used part: aerial parts. TCM Effects: See *Siegesbeckia orientalis*. TCM Indications: See *Siegesbeckia orientalis*. Isolated compounds: 2481, 4680, 5930, 10277, 10289, 12175, 12196, 12230, 18175, 18176, 18177, 18178, 18179, 19875, 19876, 19877, 19880, 19983, 21756. *Siegesbeckia pubescens* = *Siegesbeckia orientalis* var. *pubescens*
- T5953 *Silene firma* (Caryophyllaceae); YING YE NV LOU CAI; Robust Silene*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, regulate menstruation, disinhibit urine. TCM Indications: Swelling pain in throat, otitis media, inhibited urination. Isolated compounds: 13657.
- T5954 *Silene fortunei* (Caryophyllaceae); YING ZI CAO; Catch-fly. Used part: whole herb with root. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Dysentery, enteritis, heat strangury, vaginal discharge, swelling pain in throat, taxation damage fever, knocks and falls, poisonous snake bites. Isolated compounds: 8059, 8060, 8061, 10061.
- T5955 *Silene jennisensis* (Caryophyllaceae); HAN MAI PING CAO; Dry Silene. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 8056, 18418.
- T5956 *Siler trilobum*. Isolated compounds: 21889.
- T5957 *Silybum marianum* (Asteraceae); SHUI FEI JI; St. Marys. Used part: achene. TCM Effects: To clear heat and disinhibit damp, course liver and disinhibit gallbladder. TCM Indications: Acute hepatitis, chronic hepatitis, cirrhosis, fatty liver, gallstones, cholangitis. Isolated compounds: 1494, 5789, 11714, 11715, 13563, 13564, 13565, 19893, 19895, 19896, 19897, 19898, 19899, 22158.
- T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (Brassicaceae); BAI JIE ZI; White Mustard Seed. Used part: seed. TCM Effects: To transform phlegm and expel rheum, dissipate binds and disperse swelling. TCM Indications: Cough and asthma with abundant phlegm, fullness in chest and rib-side pain, numbness in limbs, swelling pain in joints, damp phlegm streaming sore, swelling toxin of flat abscess. Isolated compounds: 8599, 9822, 16842, 16852, 16859, 19909, 19917, 19983.
- T5959 *Sinapis arvensis* (Brassicaceae); YE OU BAI JIE; Charlock. Isolated compounds: 19909.
- T5960 *Sinoadina racemosa* [Syn. *Adina racemosa*] (Rubiaceae); JI ZI MU; Racemose Adina. Isolated compounds: 636, 637, 638, 639, 640, 2789, 3184, 3551, 6953, 7040, 7425, 7774, 8977, 8978, 10887, 12020, 12072, 12073, 12074, 12949, 12950, 14224, 15525, 18317, 18380, 18381, 18382, 18383, 18384, 18390, 18441, 18918, 19087, 19623, 19624, 19625, 19626, 19636, 20263, 20390, 20503, 21634, 22496, 22606.
- T5961 *Sinocalamus oldhami* (Poaceae); LV SUN PIAN; Oldham Bamboo Shoot. Used part: shoot. TCM Effects: To transform phlegm and calm asthma. TCM Indications: Cough and asthma with abundant phlegm. Isolated compounds: 2027, 2028, 11031.
- T5962 *Sinocrassula asclepiadea* (Crassulaceae); SI MA LI JIN SHI LIAN. Isolated compounds: 19936, 19937, 19938, 19939, 19940, 19941, 19942, 19943, 19944, 19945, 19946.
- T5963 *Sinodielsia yunnanensis* (Apiaceae); DIAN QIN; Common Sinodielsia. Used part: root. TCM Effects: To effuse exterior, dispel wind, relieve pain, disinhibit urine. TCM Indications: Common cold, headache, cough, wind-damp impediment pain, wind water edema. Isolated compounds: 2309, 7707, 9785, 19542, 19947, 19948, 19949, 19950, 19951, 19952, 19953, 19954.
- T5964 *Sinomenium acutum* (Menispermaceae); QING FENG TENG; Orientvine. Used part: stem. TCM Effects: To dispel wind and free network vessels, dispel damp and relieve pain. TCM Indications: Wind-damp impediment pain, pain from arthritis, swelling in joints, paralytic and pruritus. Isolated compounds: 602, 603, 6512, 11717, 13374, 14484, 14827, 19200, 19908, 19955, 19983, 20322, 20369, 20556, 22100. *Sinopodophyllum emodii* = *Podophyllum emodii*
- T5965 *Siparuna pauciflora* (Monimiaceae); SHAO HUA XI PA MU; Limoncillo (in Costa Rica). Isolated compounds: 12573, 19961, 19962, 19963.
- T5966 *Siphonostegia chinensis* (Scrophulariaceae); YIN XING CAO; Chinese Siphonostegia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and dispel stasis. TCM Indications: Jaundice, inhibited urination, abdominal distention with edema, stasis pain from knocks and falls, blood dysentery, blood strangury, vaginal discharge, menstrual disorder, concretion conglomeration accumulation and gathering, postpartum abdominal pain. Isolated compounds: 7521, 11305, 12952.
- T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*] (Cucurbitaceae); LUO HAN GUO; Grosvenor Siraitia. Used part: fruit. TCM Effects: To clear heat and moisten lung, lubricate intestines and free stool. TCM Indications: Lung heat dry cough, common cold, throat pain, laryngitis, aphonia due to throat pain, intestinal dry and constipation. Isolated compounds: 9012, 19971, 19972, 19973, 19974, 19975. *Sisymbrium dublium* = *Rorippa montana*
- T5968 *Sisymbrium officinale* (Brassicaceae); ZUAN GUO SUAN JIE; Hedge Mustard. Isolated compounds: 15400.
- T5969 *Sium latifolium* (Apiaceae); OU ZE QIN; Greater Water-parsnip. Used part: whole herb with root. TCM Effects: To dispel wind and relieve pain, lower blood pressure. TCM Indications: Common cold, headache, hypertension. Isolated compounds: 16930.
- T5970 *Skimmia japonica* (Rutaceae); XIANG YIN YU; Japanese Skimmia. Isolated compounds: 20002, 20003.
- T5971 *Skimmia laureola* (Rutaceae); GUANG RONG YIN YU; Laureate Skimmia*. Isolated compounds: 3464, 9419, 20003.
- T5972 *Skimmia reevesiana* (Rutaceae); YIN YU; Reeves Skimmia. Used part: stem-leaf. TCM Effects: To dispel wind and overcome damp. TCM Indications: Wind-damp impediment pain, hypertonicity of limbs, weakness of legs. Isolated compounds: 18568, 18569, 20002, 20003.
- T5973 *Smilax aristolochiaefolia* (Liliaceae); HUI BA QIA; Grey Greenbrier*. Isolated compounds: 16666, 19389.
- T5974 *Smilax aspera* (Liliaceae); SUI BA QIA; Eurasia Greenbrier. Isolated compounds: 15729.
- T5975 *Smilax bockii* (Liliaceae); XI NAN BA QIA; *Smilax bockii*. Used part:

- rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and dispel stasis, resolve toxin and dissipate binds. TCM Indications: Wind-damp impediment, painful swelling from knocks and falls, clove sore scrofula. Isolated compounds: 2524, 2525.
- T5976 *Smilax china* [Syn. *Smilax japonica*] (Liliaceae); BA QIA; Chinaroot Greenbrier. Used part: rhizome. TCM Effects: To dispel wind and disinhibit damp, resolve toxin and eliminate welling abscess. TCM Indications: Wind-damp impediment pain, strangury-turbidity, vaginal discharge, dysentery, diarrhea, swelling toxin of welling abscess and sore, intractable lichen, burns and scalds. Isolated compounds: 5659, 8968, 15465, 15466, 18056, 19983.
- T5977 *Smilax glabra* (Liliaceae); TU FU LING; Glabrous Greenbrier. Equivalent plant: *Smilax menispermoides*. Used part: rhizome. TCM Effects: To eliminate damp, resolve toxin, free joints. TCM Indications: Damp-heat with strangury turbidity, vaginal discharge, swollen welling abscess, scrofula, scab and lichen, syphilis, mercurial poisoning. Isolated compounds: 1928, 2924, 5659, 5699, 5984, 11241, 11411, 20020, 20021, 20022, 20023, 20024, 20029, 20566, 21682, 22101.
- T5978 *Smilax glauco-china* (Liliaceae); HEI GUO BA QIA; Blackfruit Greenbrier. Used part: rhizome or tender leaf. TCM Effects: To dispel wind, clear heat, disinhibit damp, resolve toxin. TCM Indications: Wind-damp impediment, pain in lumbus and legs, knocks and falls, dribbling and inhibited voidings of urination, scrofula, swelling toxin of welling abscess and sore, ulcer of lower limb. Isolated compounds: 7748.
- Smilax japonica* = *Smilax china*
- T5979 *Smilax lebrunii* (Liliaceae); CU CAO BA QIA; Lebrun Greenbrier. Isolated compounds: 20236.
- T5980 *Smilax menispermoides* (Liliaceae); FANG JI YE BA QIA; Gansu Greenbrier. Used part: rhizome. TCM Effects: See *Smilax glabra*. TCM Indications: See *Smilax glabra*. Isolated compounds: 6440, 6441, 17278, 18643.
- T5981 *Smilax riparia* (Liliaceae); NIU WEI CAI; Oxtail Greenbrier. Used part: rhizome and root. TCM Effects: To dispel wind-damp, free channels and network vessels, dispel phlegm and relieve cough. TCM Indications: Wind-damp impediment, taxation damage and lumbago, knocks and falls, cough and asthma. Isolated compounds: 15465, 15466.
- T5982 *Smilax sieboldii* (Liliaceae); NIAN YU XU; Siebold Greenbrier. Equivalent plant: *Smilax stans*. Used part: rhizome and root. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, resolve toxin and dissipate binds. TCM Indications: Wind-damp impediment pain, sore and boil, toxin swelling, scrofula. Isolated compounds: 12591, 15463, 21383.
- T5983 *Smilax* sp. (Liliaceae). Isolated compounds: 8834.
- T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*] (Liliaceae); QIAO BING BA QIA; Sheathstipe Greenbrier. Used part: rhizome and root. TCM Effects: See *Smilax sieboldii*. TCM Indications: See *Smilax sieboldii*. Isolated compounds: 18056.
- Smilax vaginata* var. *stans* = *Smilax stans*
- T5985 *Smyrniopsis aucheri*. Isolated compounds: 15241.
- T5986 *Smyrniolum olusatrum* (Apiaceae); XIAO MEI WEI QIN. Isolated compounds: 194, 215, 5492, 5495, 5496, 5886, 5887.
- T5987 *Sobina chinensis* (Cupressaceae); HUI⁽⁴⁾ YE; Chinese Juniper Leaf. Used part: leaf. TCM Effects: To expel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, pain in joints due to rheumatism, urticaria, toxin swelling. Isolated compounds: 1030, 9543.
- T5988 *Solanum abutiloides* (Solanaceae); MA ZHUANG QIE; Abutilon Nightshade*. Isolated compounds: 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48.
- T5989 *Solanum aculeatissimum*‡ (Solanaceae); DING QIE; Aculeate Nightshade*. Used part: whole herb. TCM Effects: To suppress cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Asthma, chronic bronchitis, stomachache, wind-damp pain, scrofula, cold suppurative sore, knocks and falls. Isolated compounds: 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 15855. ‡Note: same plant as T6014.
- T5990 *Solanum arundo* (Solanaceae); A LUN DUO QIE; Arundo Nightshade*. Isolated compounds: 1822.
- T5991 *Solanum aviculare* [Syn. *Solanum laciniatum*] (Solanaceae); AO ZHOU QIE; Australian Nightshade. Isolated compounds: 16789, 20066, 20069.
- T5992 *Solanum berthaultii* (Solanaceae); BO SHI QIE; Berthault Nightshade*. Isolated compounds: 7730.
- T5993 *Solanum capsicastrum* (Solanaceae); YE HAI JIAO; Twoflower Jerusalemcherry. Used part: whole herb. TCM Effects: To disperse accumulation, disinhibit diaphragm, precipitate heat toxin. TCM Indications: Rheumatism numbness, damp-heat itchy sore, clove sore, menstruant's morbidity. Isolated compounds: 3143, 20061.
- T5994 *Solanum chacoense* (Solanaceae); CHA QIE; Cha Nightshade*. Isolated compounds: 3942, 5104.
- T5995 *Solanum commersonii* (Solanaceae); KE MO SEN QIE; Commerson Nightshade*. Isolated compounds: 3942, 5104.
- T5996 *Solanum decemlineata* (Solanaceae); SHI XIAN QIE; Decaline Nightshade*. Isolated compounds: 5104.
- T5997 *Solanum demissum* (Solanaceae); AI QIE; Dwarf Nightshade*. Isolated compounds: 5104, 14235, 19982, 21434.
- T5998 *Solanum dulcamara* (Solanaceae); QIAN NIAN BU LAN XIN; Bitter Nightshade Fruit. Used part: whole herb. TCM Effects: To expel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp pain, tetanus, swollen welling abscess, malign sore, scab sore, bleeding due to external injury. Isolated compounds: 3939, 4944, 10711, 10712, 10713, 10771, 10772, 13222, 13243, 20042, 20044, 20046, 20047, 20048, 20049, 20050, 20066, 20069, 21383, 21433, 22878.
- T5999 *Solanum incanum* (Solanaceae); HUI BAI QIE; Greywhite Nightshade*. Isolated compounds: 20069.
- T6000 *Solanum indicum* (Solanaceae); TIAN QIE ZI; Indian Nightshade. Used part: fruit, seed and leaf. TCM Effects: To dispel wind and eliminate evil. TCM Indications: Toothache, headache, deep-source nasal congestion. Isolated compounds: 4189, 7788, 12488, 14698, 17973, 19542, 20043, 20066, 20070.
- T6001 *Solanum jasminoides* (Solanaceae); SU XIN YE BAI YING; Jasmine Nightshade. Isolated compounds: 20066, 20069.

- T6002 *Solanum juzepczukii* (Solanaceae); JU SHI QIE; Juzepczuk Nightshade*. Isolated compounds: 5104.
- T6003 *Solanum khasianum* (Solanaceae); CI TIAN QIE; Khasi Nightshade Fruit. Used part: fruit. TCM Effects: To expel wind and relieve pain, clear heat and resolve toxin. TCM Indications: Wind-damp pain, bleeding due to external injury, nervous headache, stomachache, toothache, mastitis, epidemic parotitis. Isolated compounds: 7788, 20044, 20066, 20069.
Solanum laciniatum = *Solanum aviculare*
- T6004 *Solanum laxum* (Solanaceae); XI SHU QIE; Lax Nightshade*. Isolated compounds: 13022.
- T6005 *Solanum lyratum* (Solanaceae); BAI MAO TENG; Bittersweet. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dispel wind and resolve toxin. TCM Indications: Malaria, jaundice, edema, strangury, pain in joints due to rheumatism, erysipelas, clove sore. Isolated compounds: 1898, 3939, 15464, 18724, 18725, 20042, 20044, 20052, 20053, 20054, 20055, 20069, 21384.
- T6006 *Solanum melongena* (Solanaceae); QIE YE; Garden Eggplant Leaf. Used part: leaf. TCM Effects: To dissipate blood and disperse swelling. TCM Indications: Blood strangury, blood dysentery, intestinal wind bleeding, swollen welling abscess, frostbite. Isolated compounds: 9568, 20066, 21662.
- T6007 *Solanum melongena* (Solanaceae); QIE ZI; Garden Eggplant. Used part: fruit. TCM Effects: To clear heat and quicken blood, disperse swelling and relieve pain. TCM Indications: Intestinal wind bleeding, heat toxin swollen welling abscess. Isolated compounds: 617, 5010, 5027, 12488, 13016, 15289, 17973, 19838, 20069, 21383, 21662.
- T6008 *Solanum nigrum* (Solanaceae); LONG KUI; Black Nightshade. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Clove sore, swollen welling abscess, erysipelas, sprain from knocks and falls, mastitis, cervicitis, chronic bronchitis, chronic trachitis, acute nephritis, dysentery, infection of skin, leukorrhea, scant urine in children. Isolated compounds: 8817, 20044, 20056, 20060, 20066, 20069, 21383.
- T6009 *Solanum pseudo-capsicum* (Solanaceae); YU SHAN HU GEN; Jerusalemcherry Root. Used part: root. TCM Effects: To relieve pain. TCM Indications: Taxation damage and lumbago. Isolated compounds: 20061.
- T6010 *Solanum pubescens* (Solanaceae); ROU MAO QIE; Pubescent Nightshade. Isolated compounds: 16498.
- T6011 *Solanum sarrachoides* (Solanaceae); YE GUO QIE; Leafy-fruited Nightshade. Isolated compounds: 12070.
Solanum sodomaicum = *Solanum sodomeum*
- T6012 *Solanum sodomeum* [Syn. *Solanum sodomaeum*] (Solanaceae); SUO DUO MI QIE; Sodome Nightshade*. Isolated compounds: 20068, 20069.
- T6013 *Solanum* sp. (Solanaceae). Isolated compounds: 20069.
- T6014 *Solanum surattense*† (Solanaceae); YE DIAN QIE; Soda-apple Nightshade. Used part: whole herb. TCM Effects: To suppress cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Asthma, chronic bronchitis, stomachache, wind-damp pain, scrofula, cold suppurative sore, knocks and falls. Isolated compounds: 20045, 20069. ‡Note: same plant as T5989.
- T6015 *Solanum torvum* (Solanaceae); SHUI QIE; Water Nightshade. Used part: root. TCM Effects: To quicken blood, dissipate stasis and relieve pain. TCM Indications: painful wound from knocks and falls, taxation damage in lumbar muscle, sand, stomachache, clove sore, swollen welling abscess. Isolated compounds: 11971, 16616, 19978, 19987, 20069, 21468, 21469, 21470, 21471, 21472, 21473, 22700, 22704.
- T6016 *Solanum tripartitum* (Solanaceae); SAN LIE QIE; Tripartite Nightshade*. Isolated compounds: 20062, 20063.
- T6017 *Solanum tuberosum* (Solanaceae); MA LING SHU; Potato. Used part: tuber. TCM Effects: To harmonize stomach and fortify center, resolve toxin and disperse swelling. TCM Indications: Stomachache, epidemic parotitis, swollen welling abscess, eczema, scalds. Isolated compounds: 4135, 7781, 7782, 7788, 7789, 13016, 14235, 17913, 17914, 18849, 19982, 20056, 20060, 20070, 22058, 22080.
- T6018 *Solanum verbascifolium* (Solanaceae); YE YAN YE; Mullein Nightbrier Leaf. Used part: leaf. TCM Effects: To move qi-blood, disperse swelling toxin, relieve pain. TCM Indications: Yellow swelling, pain wind, flooding, painful swelling from knocks and falls, toothache, scrofula, welling abscess, eczema, dermatitis. Isolated compounds: 20069.
- T6019 *Solanum viarum* (Solanaceae); XIAO LU QIE; Viatic Nightshade*. Isolated compounds: 20069.
- T6020 *Solanum xanthocarpum* (Solanaceae); HUANG GUO QIE; Yellowfruit Nightshade. Used part: root, fruit and seed. TCM Effects: To clear heat and disinhibit damp, disperse stasis and relieve pain. TCM Indications: Wind-damp impediment pain, toothache, painful swollen testes, welling abscess and boil. Isolated compounds: 663, 3221, 3241, 3242, 20069.
- T6021 *Solenanthes circinatus* (Boraginaceae); CHANG RUI LIU LI CAO; Circinate Solenanthes. Isolated compounds: 18847.
- T6022 *Solidago altissima* (Asteraceae); GAO YI ZHI HUANG HUA; Canadian Goldenrod. Isolated compounds: 232, 268, 269, 3835, 5792, 9751, 9752, 9753, 9920, 9921, 20071, 20169.
Solidago chinensis = *Wedelia chinensis*
Solidago decurrens = *Solidago virgaurea* var. *leiocarpa*
- T6023 *Solidago virgaurea* (Asteraceae); MAO GUO YI ZHI HUANG HUA; European Goldenrod. Used part: whole herb or root. TCM Effects: To course wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold, swelling pain in throat, nephritis, cystitis, swollen welling abscess and toxin of clove, knocks and falls. Isolated compounds: 12608, 19087, 22526.
- T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*] (Asteraceae); YI ZHI HUANG HUA; Common Goldenrod. Used part: whole herb. TCM Effects: To soothe wind and drain heat, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold, headache, swelling pain in throat, lung heat cough, jaundice, diarrhea, heat strangury, swollen welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 2283, 2292, 2887, 4441, 13603, 13828, 13853, 13857, 14283, 18411.
- T6025 *Sonchus arvensis* (Asteraceae); NIU SHE TOU; Field Sowthistle. Used part: herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, appendicitis, mastitis, white turbidity,

- hemorrhoids, emission, swelling toxin of sore and boil, burns and scalds. Isolated compounds: 1476, 11083, 11084, 11085, 13143, 13504.
- T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*] (Asteraceae); XU DUAN JU; Prickly Sowthistle. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Toxin swelling of sores, infantile cough asthma, tuberculosis and coughing of blood. Isolated compounds: 8615, 14110, 20706.
Sonchus oleraceus var. *asper* = *Sonchus asper*
- T6027 *Sonchus* sp. (Asteraceae). Isolated compounds: 3635.
- T6028 *Sophora alopecuroides* (Fabaceae); KU DOU GEN; Foxtail-like Sophora Root*. Used part: root. TCM Effects: To clear intestines and dry damp, settle pain. TCM Indications: Damp-heat dysentery, enteritis and diarrhea, jaundice, eczema, sore pharynx, toothache, intractable lichen, scalds. Isolated compounds: 16474, 20100.
- T6029 *Sophora alopecuroides* (Fabaceae); KU DOU ZI; Foxtail-like Sophora. Used part: whole herb and seed. TCM Effects: To clear heat and dry damp, kill worms and relieve pain. TCM Indications: Dysentery, stomachache, excessive leukorrhea, eczema, sore and boil, intractable lichen. Isolated compounds: 983, 4594, 13606, 15527, 16451, 16474, 20077, 20094, 20100.
Sophora angustifolia = *Sophora flavescens*
- T6030 *Sophora chrysophylla* (Fabaceae); HUANG YE HUAI; Yellowleaf Sophora. Isolated compounds: 13606.
- T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*] (Fabaceae); KU SHEN; Lightyellow Sophora. Used part: dried root. TCM Effects: To clear heat and dry damp, dispel wind and kill worms. TCM Indications: Arrhythmia, otitis media, acute conjunctivitis, chronic conjunctivitis, trichomoniasis, septicemia, edema, damp-heat diarrhea, intestinal wind bleeding, acute jaundice, inhibited urination, vaginal discharge, pudendal itch, scab and lichen, leprosy, itchy skin, eczema, damp toxin sore, suppurative nest sore. Isolated compounds: 938, 1134, 2145, 4594, 4948, 7883, 9361, 9391, 10714, 11222, 11473, 11474, 11531, 11588, 11783, 12280, 12281, 12282, 12283, 12284, 12285, 12286, 12287, 12340, 12341, 12342, 12343, 12344, 12353, 12354, 12355, 12356, 12357, 12358, 12359, 12360, 12361, 12362, 12363, 12364, 12365, 12366, 12367, 12368, 12369, 12370, 12371, 12595, 12597, 12605, 13089, 13281, 13282, 13462, 13606, 13985, 14279, 14545, 15425, 15674, 15769, 15770, 16451, 16474, 16826, 16834, 20077, 20078, 20086, 20089, 20090, 20091, 20092, 20094, 20096, 20097, 20100, 20127, 21623, 21638, 22761.
- T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*] (Fabaceae); KU SHEN SHI; Lightyellow Sophora Seed. Used part: seed. TCM Effects: To clear heat and resolve toxin, free stool, kill worms. TCM Indications: Acute bacillary dysentery, constipation, ascariasis. Isolated compounds: 4594, 16474.
- T6033 *Sophora franchetiana* (Fabaceae); MIN HUAI; Franchet Sophora. Isolated compounds: 1068.
- T6034 *Sophora japonica* (Fabaceae); HUAI; Japanese Pagodatree. Used part: flower and bud. TCM Effects: To cool blood and stanch bleeding, clear liver and brighten eyes. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids, blood dysentery, hematuria, hematochezia, blood strangury, flooding and spotting, blood ejection, spontaneous external bleeding, liver fire headache, red eyes with gall, swollen welling abscess and sores. Isolated compounds: 1935, 2065, 2066, 2069, 2370, 8062, 8063, 8278, 8279, 8280, 8281, 8282, 8282, 8284, 8285, 11642, 12076, 12111, 12112, 12113, 13451, 15525, 18002, 18317, 19087, 19087, 20079, 20080, 20083, 20099, 20128.
- T6035 *Sophora japonica* (Fabaceae); HUAI GEN; Japanese Pagodatree Root. Used part: root. TCM Effects: To dissipate stasis and disperse swelling, kill worms. TCM Indications: Hemorrhoids, throat impediment, ascariasis. Isolated compounds: 13281, 13282.
- T6036 *Sophora japonica* (Fabaceae); HUAI JIAO; Japanese Pagodatree Fruit. Used part: fruit. TCM Effects: To cool blood and stanch bleeding, clear liver and brighten eyes. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids, blood strangury, flooding and spotting, blood dysentery, blood heat, blood ejection, spontaneous external bleeding, liver fire and red eyes, dizziness and dim vision. Isolated compounds: 8278, 11648, 18317, 19087, 20080, 20088, 20099, 20101, 20385.
- T6037 *Sophora koreensis* (Fabaceae); CHAO XIAN LANG YA CI; Korean Sophora. Isolated compounds: 517, 6693, 6694.
- T6038 *Sophora leachiana* (Fabaceae); LI QI HUAI; Leachiana Sophora. Isolated compounds: 12595, 12596, 16550.
- T6039 *Sophora moorcroftiana* (Fabaceae); SHA SHENG HUAI; Sandliving Sophora. Used part: seed. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Damp-heat jaundice, diphtheria, nipple moth. Isolated compounds: 11248, 16451.
- T6040 *Sophora pachycarpa* (Fabaceae); GAN SU HUAI SHU; Thickfruit Sophora. Isolated compounds: 20077.
- T6041 *Sophora* sp. (Fabaceae). Isolated compounds: 2455.
- T6042 *Sophora* spp. (Fabaceae). Isolated compounds: 3004.
- T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*] (Fabaceae); SHAN DOU GEN; Tonkin Sophora Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, disinhibit throat and disperse swelling. TCM Indications: Septicemia, ulcer of uterine cervix, chronic cervicitis, bacillary dysentery, enteritis, hydatid moles, chorioblastoma, asthma, chronic bronchitis, acute tonsillitis, laryngitis, accumulated fire toxin, swelling pain in throat, gingiva painful swelling. Isolated compounds: 16, 17, 18, 22, 1134, 4604, 6539, 8278, 13098, 13281, 13282, 13606, 16451, 18103, 20077, 20082, 20083, 20085, 20095, 20096, 20098, 20123, 22697.
- T6044 *Sophora tetraptera* (Fabaceae); SI CHI HUAI; New Zealand Kowhai. Isolated compounds: 13606.
- T6045 *Sophora tomentosa* (Fabaceae); LING NAN HUAI SHU; Tomentose Sophora. Isolated compounds: 11248, 11504, 13281, 20093.
Sophora tonkinensis = *Sophora subprostrata*
- T6046 *Sophora viciifolia* (Fabaceae); BAI CI HUA; Vetchleaf Sophora. Used part: root. TCM Effects: To clear heat and disinhibit throat, cool blood and disperse swelling. TCM Indications: Swelling pain in throat, cough, hepatitis, dysentery, strangury syndrome, edema, hematuria, nosebleed(epistaxis), hematochezia. Isolated compounds: 6452, 6454, 10336, 10337, 10338, 13606, 14892, 16451, 16474, 20077, 20094.
- T6047 *Sophora viciifolia* (Fabaceae); BAI CI HUA GEN; Vetchleaf Sophora Root. Used part: root. TCM Effects: To clear heat and disinhibit throat,

- cool blood and disperse swelling. TCM Indications: Swelling pain in throat, lung heat cough, hepatitis, dysentery, strangury syndrome, edema, spontaneous external bleeding, hematochezia, hematuria. Isolated compounds: 4695, 4696, 4697.
- T6048 *Sophora vicifolia* (Fabaceae); BAI CI HUA YE; Vetchleaf Sophora Leaf. Used part: leaf. TCM Effects: To cool blood, resolve toxin, kill worms. TCM Indications: Spontaneous external bleeding, hematochezia, swollen welling abscess and clove sores, scab and lichen, scalds, trichomoniasis. Isolated compounds: 6454, 16474.
- T6049 *Sophora vicifolia* (Fabaceae); BAI CI HUA ZI; Vetchleaf Sophora Seed. Used part: fruit. TCM Effects: To clear heat and transform damp, disperse accumulation and relieve pain. TCM Indications: Food accumulation, stomachache, abdominal pain. Isolated compounds: 5895, 21733.
- T6050 *Sopubia delphinifolia* (Scrophulariaceae); CUI QUE YE DUAN GUAN CAO; Delphinileaf Sopubia*. Isolated compounds: 17834, 17838.
- T6051 *Sorbaria arborea* (Rosaceae); GAO CONG ZHEN ZHU MEI; Tree Falsespiraea. Used part: bark. TCM Effects: See *Sorbaria sorbifolia*. TCM Indications: See *Sorbaria sorbifolia*. Isolated compounds: 18407, 19587, 21634.
- T6052 *Sorbaria sorbifolia* (Rosaceae); ZHEN ZHU MEI; Ural Falsespiraea. Equivalent plant: *Sorbaria arborea*. Used part: bark. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Fracture, knocks and falls, wind-damp impediment pain. Isolated compounds: 1618, 11659, 11897, 18317, 18407, 19587, 20102, 20103, 21634.
- T6053 *Sorbus aucuparia* (Rosaceae); OU ZHOU HUA QIU; European Mountainash. Isolated compounds: 2005, 6632, 16657, 16658, 20104.
- T6054 *Sorbus decora* (Rosaceae); MEI LI HUA QIU; Showy Mountainash. Isolated compounds: 2005.
- T6055 *Sorbus tianschanica* (Rosaceae); TIAN SHAN HUA QIU; Tianshan Mountain Mountainash. Used part: branchlet and fruit. TCM Effects: To clear lung and suppress cough, supplement spleen and engender liquid. TCM Indications: Tuberculosis, cough and asthma, stomachache, hypovitaminosis. Isolated compounds: 1102, 16657, 21612.
- T6056 *Sorghum vulgare* (Poaceae); GAO LIANG; Sorghum. Used part: seed. TCM Effects: To fortify spleen and check diarrhea, transform phlegm and quiet spirit. TCM Indications: Cholera, spleen vacuity diarrhea, indigestion, phlegm-damp cough, insomnia and frequent dreaming. Isolated compounds: 5283, 13136.
- T6057 *Sorocea bonplandii*. Isolated compounds: 20105.
- T6058 *Sorocea ilicifolia*. Isolated compounds: 20106.
- T6059 *Soulamea soulameoides*. Isolated compounds: 3829.
- T6060 *Souliea vaginata* (Ranunculaceae); HUANG SAN QI; Common Souliea. Used part: rhizome or whole herb. TCM Effects: To clear heat and eliminate vexation, resolve toxin and disperse swelling. TCM Indications: Febrile diseases with vexation and agitation, palpitation and fearful throbbing, steaming bone tidal fever, pharyngitis, stomatitis, conjunctivitis, swelling toxin of sore and welling abscess, damp-heat diarrhea, dysentery. Isolated compounds: 2202, 3649, 3666, 9455, 20110, 20111, 20112.
- T6061 *Sparaxis* sp. (Iridaceae). Isolated compounds: 17568.
- T6062 *Sparganium stoloniferum* (Sparganiaceae); SAN LENG; Common Burreed. Used part: tuber. TCM Effects: To break blood, move *qi* and relieve pain, disperse accumulation. TCM Indications: Concretion conglomeration accumulation and gathering, *qi*-blood stagnation, pain in heart and abdomen, distending pain in rib-side, amenorrhea, postpartum blood stasis abdominal pain, knocks and falls, swelling of sores. Isolated compounds: 6798, 6799, 11503, 12020, 19295, 19983, 21112.
- T6063 *Spartina cynosuroides* (Poaceae); YAN DI HE; Big Cord-grass. Isolated compounds: 21589.
- T6064 *Spartium junceum* (Fabaceae); YING ZHAO DOU; Weaversbroom. Isolated compounds: 4594, 14279, 19332, 20134.
- T6065 *Spathelia excelsa* (Rutaceae). Isolated compounds: 10201, 10202, 10486, 10487, 10783, 16431.
- T6066 *Spatholobus suberectus* (Fabaceae); MI HUA DOU; Suberect Spatholobus. Used part: stem. TCM Effects: To supplement blood, quicken blood, free network vessels. TCM Indications: Septicemia, menstrual disorder, blood vacuity, anemia due to malnutrition, anemia due to bleeding, anemia with yellow complexion, numbness and paralysis, wind-damp impediment pain. Isolated compounds: 676, 2779, 2931, 10967, 20437.
- T6067 *Spatoglossum variabile* YI BIAN HE SHE ZAO. Isolated compounds: 3542, 3557.
- T6068 *Speranskia leptostachya* (Euphorbiaceae). Isolated compounds: 17202.
- T6069 *Speranskia tuberculata* (Euphorbiaceae); TOU GU CAO; Tuberculate Speranskia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve pain. TCM Indications: Wind-damp impediment pain, contracture of muscles and joints, beriberi, swelling toxin of sore and lichen. Isolated compounds: 3594, 11897, 12679, 17202.
- Spergula japonica* = *Sagina japonica*
- T6070 *Sphaeciospongia vesparia*; Sponge *Sphaeciospongia vesparia*. Isolated compounds: 17729.
- T6071 *Sphaeranthus indicus* (Asteraceae); RONG MAO DAI XING CAO; Indian Sphaeranthus. Used part: whole herb. TCM Effects: To clear heat and disinhibit urine, fortify stomach and disperse food. TCM Indications: Infection of urinary system, indigestion. Isolated compounds: 13883.
- Sphaerophysa salsula* = *Swainsonia salsula*
Sphagnum cymbifolium = *Sphagnum palustre*
Sphagnum obtusifolium = *Sphagnum palustre*
- T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*] (Sphagnaceae); NI TAN XIAN. Used part: plant body. TCM Effects: To clear heat and brighten eyes, relieve itch. TCM Indications: Eye screen, skin diseases, insect bites with itching. Isolated compounds: 13127.
- T6073 *Sphallerocarpus gracilis* (Apiaceae); MO GUO QIN; Thin Sphallerocarpus. Used part: fruit. TCM Effects: To boost kidney, invigorate *yang*, dispel wind and dry damp. Isolated compounds: 1211, 2041, 22744.
- T6074 *Spigelia anthelmia* (Spigeliaceae); QU CHONG CAO. Isolated compounds: 1281, 4907, 4908, 4911, 4931, 4932, 4933, 5169, 5215,

- 5869, 5870, 7091, 7092, 7111, 7112, 7113, 10071, 10081, 10683, 10715, 15794, 19091, 20162, 20163.
- T6075 *Spiranthes acmella* (Asteraceae); TIAN WEN CAO; Paniculate Spotted. Used part: whole herb. TCM Effects: To suppress cough and settle asthma, resolve toxin and disinhibit damp, disperse swelling and relieve pain. TCM Indications: Common cold, cough, asthma, pertussis, tuberculosis, diarrhea, enteritis, malaria, swelling toxin of sore and boil, rheumatic arthritis, toothache, knocks and falls, poisonous snake bite. Isolated compounds: 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122.
- T6076 *Spinacia oleracea* (Chenopodiaceae); BO CAI; Spinich. Used part: whole herb with root. TCM Effects: To nourish blood, stanch bleeding, calm liver, moisten dryness. TCM Indications: Spontaneous external bleeding, hematochezia, headache, dizziness and dim vision, red eyes, night blindness, diabetes mellitus, fecal stoppage, hemorrhoids. Isolated compounds: 360, 3585, 4190, 7777, 7852, 7853, 9568, 9601, 10500, 15356, 15357, 16285, 17140, 17141, 20164, 20166, 20167, 20168, 21415.
- T6077 *Spiraea formosana* (Rosaceae); TAI WAN XIU XIAN JU; Taiwan Spiraea*. Isolated compounds: 1113, 2081, 8788, 19983, 20189, 20190, 20191, 20192.
- T6078 *Spiraea fritschiana* var. *parvifolia* (Rosaceae); XIAO YE HUA BEI XIU XIAN JU; Smallleaf Fritsch Spiraea*. Isolated compounds: 20178, 20181, 20182, 20183, 20184, 20185, 20186, 20187, 20188.
- T6079 *Spiraea japonica* (Rosaceae); XIU XIAN JU; Japanese Spiraea. Used part: root. TCM Effects: See *Spiraea japonica* var. *Fortunei*. TCM Indications: See *Spiraea japonica* var. *Fortunei*. Isolated compounds: 20194.
- T6080 *Spiraea japonica* (Rosaceae); XIU XIAN JU YE; Japanese Spiraea Leaf. Used part: leaf. TCM Effects: To resolve toxin and disperse swelling, eliminate putridity and engender flesh. TCM Indications: Fistula. Isolated compounds: 20175, 20176, 20177, 20179, 20180.
- T6081 *Spiraea japonica* var. *acuta* (Rosaceae); JI JIAN XIU XIAN JU; Acute Spiraea. Isolated compounds: 20193, 20195, 20200, 20201.
- T6082 *Spiraea japonica* var. *fortunei* (Rosaceae); GUANG YE FEN HUA XIU XIAN JU; Fortune Japanese Spiraea. Equivalent plant: *Spiraea japonica*. Used part: root. TCM Effects: To dispel wind and clear heat, eliminate screen and brighten eyes. TCM Indications: Cough, toothache, headache, red eyes and eye screen. Isolated compounds: 20197, 20198, 20199.
- T6083 *Spiraea mongolica* (Rosaceae); MENG GU XIU XIAN JU; Mongolian Spiraea. Isolated compounds: 20196.
- T6084 *Spiraea prunifolia* (Rosaceae); XIAO YE HUA; Bridalwreath Spiraea. Equivalent plant: *Spiraea thunbergii*. Used part: root. TCM Effects: To disinhibit throat and disperse swelling, dispel wind and relieve pain. TCM Indications: Swelling pain in throat, wind-damp impediment pain. Isolated compounds: 10488, 14313.
- T6085 *Spiraea* sp. (Rosaceae). Isolated compounds: 22336.
- T6086 *Spiraea thunbergii* (Rosaceae); ZHEN ZHU XIU XIAN JU; Thunberg Spiraea. Used part: root. TCM Effects: See *Spiraea prunifolia*. TCM Indications: See *Spiraea prunifolia*. Isolated compounds: 3704, 3705, 3707, 10490, 10491.
- T6087 *Spiranthes sinensis* (Orchidaceae); ZHONG GUO SHOU CAO; Chinese Spiranthes*. Used part: whole herb with root. TCM Effects: To boost *qi* and nourish *yin*, clear heat and resolve toxin. TCM Indications: Weakness during convalescence, *yin* vacuity internal heat, cough with blood ejection, dizzy head, lumbago and limp aching, diabetes mellitus, emission, strangury-turbidity and vaginal discharge, swelling pain in throat, poisonous snake bites, burns and scalds, swollen welling abscess and sores. Isolated compounds: 19930, 19931, 19932.
- Splachnum mnioides* = *Tetraplodon mnioides*
- T6088 *Spongia* sp. Isolated compounds: 20226, 20227.
- T6089 *Stachybotrys atra*; Fungus *Stachybotrys atra*. Isolated compounds: 1983.
- T6090 *Stachybotrys chartarum*; Fungus *Stachybotrys chartarum*. Isolated compounds: 1983, 1984, 1985, 1986, 1987, 1988, 1989, 7110, 10058.
- T6091 *Stachybotrys nephrospora*; Fungus *Stachybotrys nephrospora*. Isolated compounds: 17574, 20253.
- T6092 *Stachys palustris* (Lamiaceae); GUANG YE SHUI SU; Marshy Betony. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and quicken blood. TCM Indications: Swelling pain in throat, pulmonary welling abscess, pertussis, dysentery, mammary welling abscess, zoster, eye screen, hemoptysis, painful swelling from knocks and falls. Isolated compounds: 2918, 13847, 16575.
- T6093 *Stachys sylvatica* (Lamiaceae); LIN DI SHUI SU; Whitespot Betony. Isolated compounds: 2325.
- T6094 *Stachys tubrifera* (Lamiaceae); KUAI JING SHUI SU; Chinese Artichoke. Isolated compounds: 20254.
- T6095 *Stachytarpheta jamaicensis* (Verbenaceae); JIA MA BIAN; Jamaica Falsevalerian. Used part: whole herb and root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Heat strangury, stone strangury, white turbidity, leukorrhea, wind-damp bone pain, acute conjunctivitis, pharyngolaryngitis, gingivitis, cholecystitis, welling abscess and boil, hemorrhoids, painful swelling from knocks and falls. Isolated compounds: 3551, 22044.
- T6096 *Stachyurus praecox* (Stachyuraceae); JING JIE HUA; praecox Stachyurus*. Isolated compounds: 16765, 17754.
- T6097 *Staphylea bumalda* (Staphyleaceae); SHENG GU YOU; Bumalda Bladdernut. Used part: fruit or root. TCM Effects: To moisten lung and relieve cough. TCM Indications: Dry cough, postpartum blood stasis. Isolated compounds: 10944, 13645, 20263, 20264, 20265, 20266, 20267, 20268, 20269, 20270, 20271, 20272, 20273, 20274.
- T6098 *Staphylea pinnata* (Staphyleaceae); OU ZHOU SHENG GU YOU; European Bladdernut, Pinnate Bladdernut. Isolated compounds: 16469, 17392.
- T6099 *Stauntonia chinensis* (Lardizabalaceae); YE MU GUA; Chinese Stauntonvine. Used part: root or root cortex. TCM Effects: To dispel wind and quicken network vessels, quicken blood and relieve pain, disinhibit urine and disperse edema. TCM Indications: Armpit welling abscess, enlargement of testes, dysmenorrhea. Isolated compounds: 18197, 22883, 22884, 22885, 22886, 22887, 22888, 22889, 22890, 22891, 22892.
- T6100 *Stauntonia hexaphylla* (Lardizabalaceae); NA TENG; Japanese Stauntonvine. Used part: stem-leaf. TCM Effects: To dispel wind and

- dissipate stasis, relieve pain, disinhibit urine and disperse edema. TCM Indications: Wind-damp impediment pain, painful wound from knocks and falls, neuralgia, inhibited urination, edema. Isolated compounds: 13799, 18419.
- T6101 *Stauntonia hexaphylla* (Lardizabalaceae); NA TENG GUO; Japanese Stauntonvine Fruit. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling, kill worms and relieve pain. TCM Indications: Sore and welling abscess, mounting *qi*, ascariasis, trichuriasis. Isolated compounds: 6755, 15004, 15005, 15006.
- T6102 *Stauranthus perforatus* (Rutaceae); Tankasché (in Mexico). Isolated compounds: 1067, 1833, 3457, 6312, 7061, 7719, 9304, 11269, 11630, 22781.
- T6103 *Steganotaenia araliacea* (Apiaceae); WU JIA QIAN HU. Isolated compounds: 15417, 20284, 20285, 22173.
- T6104 *Stellaria dichotoma* var. *lanceolata* (Caryophyllaceae); YIN CHAI HU; Lanceolate Starwort. Used part: root. TCM Effects: To clear vacuity heat, eliminate *gan* fever. TCM Indications: *Yin* vacuity fever, steaming bone taxation fever, child *gan* fever. Isolated compounds: 5420, 5421, 5422, 5423, 5424, 5425, 5427, 5428, 5429, 5430, 5431, 8594, 9183, 20169, 20286, 22718.
- T6105 *Stellera chamaejasme* (Thymelaeaceae); LANG DU; Chinese Stellera. Used part: root. TCM Effects: To expel water and dispel phlegm, break accumulation and kill worms. TCM Indications: Edema distention fullness, accumulation from phlegm, food accumulation, worm accumulation, pain in heart and abdomen, chronic trachitis, cough, asthma, scab and lichen, hemorrhoids and fistulas, scrofula, bone tuberculosis, epididymis tubercle. Isolated compounds: 3458, 3459, 3460, 3461, 3462, 3696, 4645, 4658, 6541, 11249, 11319, 11320, 11558, 11601, 13989, 14895, 15361, 16828, 17375, 19063, 19064, 19890, 19902, 20156, 20556, 21610, 22195, 22829.
- T6106 *Stelmatocrypton khasianum* (Asclepiadaceae); SHENG TENG; Common Stelmatocrypton. Used part: lianoid stem or whole herb. TCM Effects: To dispel wind and dissipate cold, move *qi* and free network vessels. TCM Indications: Common cold, cough, distending pain in stomach duct, wind-cold-damp impediment. Isolated compounds: 14088, 19988, 20287, 20288, 20289, 20290.
- T6107 *Stemona* cf. *pierrei* (Stemonaceae); c. Isolated compounds: 5694, 14677, 17420, 17992, 20291, 20292, 20293, 20294, 20307, 20379, 20380, 20381, 20382.
- T6108 *Stemona cochinchinensis* (Stemonaceae); YIN DU ZHI NA BAI BU; Indochina *Stemona**. Isolated compounds: 10731, 17992, 20296, 20304.
- T6109 *Stemona collinsae* (Stemonaceae); XIAO QIU BAI BU; Hill *Stemona**. Used part: root. TCM Effects: Anticarcinoma. Isolated compounds: 5470.
- T6110 *Stemona curtisii* (Stemonaceae). Isolated compounds: 4964, 10731, 16470, 16475, 16476, 17992, 20296, 20304.
- T6111 *Stemona japonica* (Stemonaceae); WAN SHENG BAI BU; Japanese *Stemona*. Used part: root. TCM Effects: See *Stemona tuberosa*. TCM Indications: See *Stemona tuberosa*. Isolated compounds: 17992, 20304, 20306, 20307.
- T6112 *Stemona kerrii* (Stemonaceae); DI TANG BAI BU; Kerri *Stemona**. Isolated compounds: 4964, 14094, 16470, 16475, 16476, 17992, 20296, 20305.
- T6113 *Stemona sessilifolia* (Stemonaceae); ZHI LI BAI BU; Sessile *Stemona*. Used part: root. TCM Effects: See *Stemona tuberosa*. TCM Indications: See *Stemona tuberosa*. Isolated compounds: 11719, 16437, 17992, 20307, 22085.
- T6114 *Stemona* sp. (Stemonaceae). Isolated compounds: 16475, 16476, 16692, 18260.
- T6115 *Stemona tuberosa* (Stemonaceae); BAI BU; Tuber *Stemona*. Equivalent plant: *Stemona japonica*, *Stemona sessilifolia*. Used part: root. TCM Effects: To moisten lung, relieve cough and kill worms. TCM Indications: Wind-cold cough, pertussis, tuberculosis, senile cough and asthma, ascariasis, oxyuria disease, scab and lichen, eczema, cootie. Isolated compounds: 3766, 5471, 6839, 7882, 11720, 11749, 13419, 15460, 15469, 16285, 16437, 16438, 20307, 20308, 20309, 20444, 22084, 22085, 22086, 22087, 22088, 22089, 22090.
- T6116 *Stenoloma chusanum* (Lindsaeaceae); DA YE JIN HUA CAO; Common Wedgelet Fern. Used part: whole herb or rhizome. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Common cold with fever, cough, swelling pain in throat, enteritis, dysentery, hepatitis, damp-heat vaginal discharge, swelling toxin of welling abscess and sore, epidemic parotitis, mouth sore, burns and scalds, poisonous snake and rabid dog bite, eczema of skin, blood ejection, hematuria, hematochezia, bleeding due to external injury. Isolated compounds: 20566.
- T6117 *Stephania abyssinica* (Menispermaceae). Isolated compounds: 17956.
- T6118 *Stephania brachyandra* (Menispermaceae); BAI XIAN SHU; Shortstamen *Stephania**. Used part: tuberoid. TCM Effects: To move *qi* and quicken blood, dispel wind and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, wind-damp impediment pain, knocks and falls, dysmenorrhea, swelling toxin of welling abscess and boil, eczema. Isolated compounds: 11344.
- T6119 *Stephania cepharantha* (Menispermaceae); BAI YAO ZI; Oriental *Stephania*. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain, cool blood and stanch bleeding. TCM Indications: Septicemia, acute hepatitis, bacillary dysentery, parotitis, neurodermatitis, swelling pain in throat, heat toxin swollen welling abscess, wind-damp impediment pain, abdominal pain and diarrhea, blood ejection, bleeding, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 2300, 2303, 3410, 3411, 3412, 3885, 4461, 6437, 8808, 9597, 11736, 14981, 15725, 16623, 21206, 21887.
- T6120 *Stephania delavayi* [Syn. *Stephania epigaea*] (Menispermaceae); DI BU RONG; Delavay *Stephania*. Used part: tuber. TCM Effects: To rectify *qi* and relieve pain, dispel wind-damp, disperse swelling toxin. TCM Indications: *Qi* stagnation and food accumulation, pain in stomach duct and abdomen, wind-damp impediment pain, swelling toxin of welling abscess and sore, poisonous snake bite. Isolated compounds: 3412, 4461, 4994, 16310, 20319.
- T6121 *Stephania dicentrifera* (Menispermaceae); HE BAO DI BU RONG; Dicine *Stephania**. Equivalent plant: *Stephania viridiflavens*. Used part: tuberoid. TCM Effects: To dissipate stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, dysentery, sore pharynx, knocks and falls, swollen welling abscess, sore and boil,

- poisonous snake bite. Isolated compounds: 5417.
- T6122 *Stephania dielsiana* (Menispermaceae); XUE SAN SHU; Diels Stephania. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: Infection of upper respiratory tract, pharyngitis, sore and welling abscess, stomachache, gastroenteritis, toothache, neuralgia, knocks and falls. Isolated compounds: 19200.
- T6123 *Stephania dinklagei* (Menispermaceae); DING KE LA QIAN JIN TENG; Dinklage Stephania*. Isolated compounds: 1961, 4106, 4970, 11344, 12917, 20316.
- T6124 *Stephania discolor* (Menispermaceae); CAI WEN QIAN JIN TENG; Discolor Stephania*. Isolated compounds: 21206.
- T6125 *Stephania elegans* (Menispermaceae); YA LI QIAN JIN TENG; Elegant Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain. TCM Indications: Sore swollen throat, sore toxin, swelling hemorrhoids, wind-damp impediment pain. Isolated compounds: 9245, 9447.
Stephania epigaea = *Stephania delavayi*
- T6126 *Stephania erecta* (Menispermaceae); ZHI LI QIAN JIN TENG; Erect Stephania*. Isolated compounds: 9597, 15739, 15764, 15804.
- T6127 *Stephania glabra* (Menispermaceae); GUANG YE DI BU RONG; Glabrousleaf Stephania*. Used part: tuberoid. TCM Effects: To dispel wind and move water, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, edema, toxin swelling of sores. Isolated compounds: 4461, 17909.
- T6128 *Stephania hernandifolia* (Menispermaceae); RU LAN; Hernandialeaf Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind-damp, relieve pain. TCM Indications: Sore toxin of welling abscess and boil, swelling pain in throat, epidemic parotitis, wind-damp impediment pain, dysentery, headache, stomachache, taxation damage and pain. Isolated compounds: 822, 1698, 7024, 7714, 9441, 9442, 9445, 9446, 9447, 9448, 11329, 11747, 18410.
- T6129 *Stephania japonica* (Menispermaceae); QIAN JIN TENG; Japanese Staphania. Used part: root or stem-leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain, disinherit water and disperse edema. TCM Indications: Swelling pain in throat, swollen welling abscess, sore and boil, poisonous snake bite, wind-damp impediment pain, stomachache, beriberi with edema, nephritis with edema, urinary tract infection, rheumatic arthritis, sciatica. Isolated compounds: 4459, 7022, 7024, 9245, 9622, 10893, 11088, 13812, 15885, 16328, 16341, 16412, 16424, 17908, 17957, 17993, 20283, 20312, 20318, 20319, 20323, 20325.
- T6130 *Stephania japonica* var. *australis* (Menispermaceae); AO DA LI YA QIAN JIN TENG; Australia Stephania*. Isolated compounds: 9245, 16424.
- T6131 *Stephania longa* (Menispermaceae); FEN JI DU; Long Stephania. Used part: root, rhizome or whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp and disperse swelling, dispel wind and quicken network vessels. TCM Indications: Diarrhea and dysentery, dribbling and inhibited voidings of urination, edema, jaundice, wind-damp impediment pain, throat impediment, tympanitis, swelling toxin of sore and welling abscess, poisonous snake bites. Isolated compounds: 17956, 20311.
- T6132 *Stephania sasakii* (Menispermaceae); TAI WAN QIAN JIN TENG; Sasak Stephania*. Used part: rhizome. TCM Effects: To settle pain, promote vomiting. TCM Indications: Tuberculosis, bronchitis, pertussis, chronic sores, poisonous snake bite, malaria. Isolated compounds: 2300, 3412, 9447, 14289, 14707, 17041, 19608.
- T6133 *Stephania sinica* (Menispermaceae); JIN BU HUAN; Chinese Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: stomachache, neuralgia, toothache, common cold, throat pain, diarrhea, dysentery, swelling toxin of welling abscess and flat abscess, wind-damp impediment pain, knocks and falls. Isolated compounds: 19067, 21077.
- T6134 *Stephania* sp. (Menispermaceae). Isolated compounds: 2049, 4224, 19598.
- T6135 *Stephania succifera* (Menispermaceae); XIAO YE DI BU RONG; Littleleaf Stephania. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, calm and relieve pain. TCM Indications: Various pain, neuralgia, toothache, stomachache, malaria, bacillary dysentery, acute gastroenteritis, infection of upper respiratory tract, swollen welling abscess and sore toxin, poisonous snake bites. Isolated compounds: 17041.
- T6136 *Stephania tetrandra* (Menispermaceae); FANG JI; Fourstamen Stephania. Used part: root. TCM Effects: To disinherit water and disperse edema, dispel wind and relieve pain. TCM Indications: Beriberi with edema, inhibited urination, eczema, sore toxin, wind-damp impediment pain, hypertension, adjuvant in anesthesia. Isolated compounds: 2303, 3747, 4459, 5419, 7714, 7753, 7754, 11851, 13714, 13715, 14441, 14753, 16332, 20313, 20314, 20315, 20320, 21206.
- T6137 *Stephania viridiflavens* (Menispermaceae); HUANG YE DI BU RONG; Greenyellow Stephania. Used part: tuberoid. TCM Effects: See *Stephania dicentrifera*. TCM Indications: See *Stephania dicentrifera*. Isolated compounds: 11851, 16555, 18054, 22820.
- T6138 *Sterculia foetida* (Sterculiaceae); JIA MA SHU; Hazel Sterculia. Used part: bark. TCM Effects: To joint sinews and bones, quicken blood and relieve pain. TCM Indications: Sinew and bone wound, painful swelling from knocks and falls. Isolated compounds: 20328, 20710.
- T6139 *Sterculia lychnophora* (Sterculiaceae); PANG DA HAI. Used part: seed, fruit. TCM Effects: To eliminate inflammation, clear heat and resolve toxin, clear lung and disinherit throat, moisten intestines and free stool.^[5509] TCM Indications: Dry cough lesser phlegm, aphonia due to throat pain, headache, steaming bone tidal fever, nosebleed, red eyes, toothache, heat bind constipation, hemorrhoids and fistulas.^[5509] Isolated compounds: 20329, 20330.
- T6140 *Stereocaulon alpinum* (Stereocaulaceae). Isolated compounds: 12936.
- T6141 *Stereospermum kunthianum* (Bignoniaceae); WU GAN DA YU YE QIU; Uganda Padritree*. Isolated compounds: 1364, 18252, 18253, 20333, 20334.
- T6142 *Stereospermum personatum* (Bignoniaceae); JIA MIAN YU YE QIU; Personator Padritree*. Isolated compounds: 20335, 20336, 20337, 20338, 20339.
- T6143 *Stereum hirsutum* (Thelephoraceae); MAO REN GE JUN. Isolated compounds: 5927, 10418, 10469, 20332.

- T6144 *Sternbergia lutea* (Liliaceae); HUANG SI TAN BAO; Winter Daffodil. Isolated compounds: 9547.
- T6145 *Stichopus japonicus* (Stichopodidae); HAI SHEN CHANG; Sea-cucumber Intestines. Used part: intestine. TCM Effects: To settle fright, harmonize stomach, resolve toxin and outthrust papules, engender flesh and stanch bleeding. TCM Indications: Gastric ulcer, duodenal ulcer, epilepsy, child indigestion, measles papules, sore and boil, bleeding due to external injury. Isolated compounds: 8753.
- T6146 *Stillingia sylvatica* [Syn. *Sapium sylvatica*] (Euphorbiaceae); CAO WU JIU; Sylvatic Sapium*. Isolated compounds: 15990, 17958.
- T6147 *Stizolobium capitatum* (Fabaceae); LI DOU; Capitataeflower Velvetbean. Used part: seed. TCM Effects: To warm center and boost qi. TCM Indications: Diabetes mellitus. Isolated compounds: 6558.
- T6148 *Streptomyces griseus* . Isolated compounds: 8308.
- T6149 *Streptomyces hygroscopicus* . Isolated compounds: 17609, 17610.
- T6150 *Streptopelia orientalis* (Columbidae); BAN JIU; Rufous Turtle Dove. Used part: meat. TCM Effects: To supplement kidney, boost qi, brighten eyes. TCM Indications: Enduring illness qi vacuity, fatigue hypodynamia, hiccup, dim vision. Isolated compounds: 2101.
- T6151 *Streptothris chromogena* . Isolated compounds: 18426.
- T6152 *Streptomyces niveus* ; Ray-fungus 1. Isolated compounds: 15849.
- T6153 *Streptomyces spheroids* ; Ray-fungus 2. Isolated compounds: 15849.
- T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*] (Acanthaceae); HONG ZE LAN; Japanese Conehead. Used part: whole herb. TCM Effects: To quicken blood and free menstruation, transform stasis and move water. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum abdominal pain, concretion and conglomeration, swollen welling abscess, knocks and falls. Isolated compounds: 20393.
- T6155 *Strophanthus divaricatus* (Apocynaceae); YANG JIAO AO ZI; Divaricate Strophanthus Seed. Used part: seed. TCM Effects: To quicken blood and disperse swelling, strengthen heart, kill worms and relieve itch. TCM Indications: Wind-damp, scab and lichen, knocks and falls, swelling of sores, cardiac failure, rheumatic arthritis. Isolated compounds: 3331, 3332, 4317, 4857, 6530, 6532, 12951, 15123, 19372, 19374, 19380, 19381, 19958, 19959, 20403, 20405.
- T6156 *Strophanthus gratus* (Apocynaceae); XUAN HUA YANG JIAO AO; Spinyflower Strophanthus. Isolated compounds: 20403.
- T6157 *Strophanthus kombe* (Apocynaceae); KANG PI DU MAO XUAN HUA; Kombe Strophanthus*. Isolated compounds: 4547, 4549, 7320, 9335, 9336, 16943, 20397, 20405.
- T6158 *Strophanthus preussii* (Apocynaceae). Isolated compounds: 16959.
- T6159 *Strophanthus sarmentosus* var. *senegambiae* (Apocynaceae); XI FEI YANG JIAO AO; Senegalese Strophanthus*. Isolated compounds: 2399, 19374.
- T6160 *Strophanthus* sp. (Apocynaceae). Isolated compounds: 12951, 21662.
- T6161 *Strophanthus* spp. (Apocynaceae). Isolated compounds: 16958.
- T6162 *Strophanthus thollonii* (Apocynaceae); SE LUN YANG JIAO AO; Thollon Strophanthus*. Isolated compounds: 2399.
- T6163 *Strychnos aculeata* (Loganiaceae); CI MA QIAN ZI; Aculeate Poisonnut*. Isolated compounds: 2678.
- T6164 *Strychnos afzelii* (Loganiaceae); A FU ZE ER MA QIAN ZI; Afzel Poisonnut*. Isolated compounds: 3148, 5682.
- T6165 *Strychnos amazonica* (Loganiaceae); YA MA XUN MA QIAN ZI; Amazonian Poisonnut*. Isolated compounds: 5682, 13615.
- T6166 *Strychnos angustiflora* (Loganiaceae); NIU YAN MA QIAN; Narrowflower Poisonnut. Used part: seed. TCM Effects: To free channels and quicken network vessels, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, deadlimb, hemiplegia, swelling toxin of welling abscess and flat abscess, knocks and falls. Isolated compounds: 1250.
- T6167 *Strychnos camptoneura* (Loganiaceae). Isolated compounds: 817.
- T6168 *Strychnos dale* (Loganiaceae). Isolated compounds: 14123.
- T6169 *Strychnos decussata* (Loganiaceae); DUI SHENG MA QIAN; Opposite Poisonnut*. Isolated compounds: 817, 4864.
- T6170 *Strychnos divaricans* (Loganiaceae); FEN CHA MA QIAN ZI; Divaricate Poisonnut*. Isolated compounds: 2959, 4377, 13615.
- T6171 *Strychnos dolichothyrsa* (Loganiaceae); CHANG HUA XU MA QIAN ZI; Longthyrsus Poisonnut*. Isolated compounds: 3148, 5682.
- T6172 *Strychnos elaeocarpa* (Loganiaceae). Isolated compounds: 14123.
- T6173 *Strychnos froesii* (Loganiaceae); FU SHI MA QIAN ZI; Froes Poisonnut*. Isolated compounds: 4377, 21485.
- T6174 *Strychnos gardneri* (Loganiaceae). Isolated compounds: 817.
- T6175 *Strychnos guianensis* (Loganiaceae). Isolated compounds: 905, 4209, 4926, 4927, 7841, 9077, 9078, 13335, 13615, 14024.
- T6176 *Strychnos icaja* (Loganiaceae); ZHONG FEI MA QIAN; Central-African Poisonnut*. Isolated compounds: 10734, 10939, 20414.
- T6177 *Strychnos ignatii* (Loganiaceae); LV SONG GUO; Ignat Poisonnut Seed. Used part: ripe seed. TCM Effects: To resolve toxin, disperse swelling, kill worms, relieve pain. TCM Indications: Stomachache, diarrhea, dysentery, malaria, worm accumulation, bleeding due to external injury, centipede bite. Isolated compounds: 2678, 7417, 12950, 14095, 17934, 20410.
- T6178 *Strychnos jobertiana* (Loganiaceae). Isolated compounds: 817.
- T6179 *Strychnos mellodora* (Loganiaceae). Isolated compounds: 16541, 21049, 21050.
- T6180 *Strychnos mitschlichii* (Loganiaceae); MI SHI MA QIAN ZI; Mitschlich Poisonnut*. Isolated compounds: 2959, 4377, 13615.
- T6181 *Strychnos myrtoides* (Loganiaceae). Isolated compounds: 5050, 10079, 13417, 15226.
- T6182 *Strychnos nigriflora* (Loganiaceae). Isolated compounds: 817.
- T6183 *Strychnos nitida* (Loganiaceae); MAO ZHU MA QIAN; Hairstyle Poisonnut. Used part: fruit and seed. TCM Effects: To dispel wind and quicken network vessels, resolve toxin and disperse swelling. TCM Indications: Wind stroke, numbness in limbs, hypertonicity, paralysis, swelling toxin of welling abscess and sore, swelling pain in throat. Isolated compounds: 3103, 12800, 20410.
- T6184 *Strychnos nux-vomica* (Loganiaceae); MA QIAN ZI; Nut-vomitive Poisonnut. Equivalent plant: *Strychnos wallichiana*. Used part: seed. TCM Effects: To free network vessels and relieve pain, dissipate binds and disperse swelling. TCM Indications: Hemiplegia, numbness and paralysis, muscle weakness, impotence, hypertrophic spinitis, chronic anemia, wind-damp intractable impediment, sequel of poliomyelitis, rheumatoid arthritis, knocks and falls, swelling pain of welling abscess and flat abscess. Isolated compounds: 454, 455, 456, 457, 1110, 2678,

- 2679, 3551, 3930, 3931, 4311, 4943, 9930, 9931, 10457, 10459, 10734, 10939, 11265, 11266, 11721, 11722, 12950, 13615, 13972, 15775, 15847, 17994, 18021, 18070, 18792, 20410, 20411, 22614.
- T6185 *Strychnos parvifolia* (Loganiaceae). Isolated compounds: 817.
- T6186 *Strychnos* sp. (Loganiaceae). Isolated compounds: 5191.
- T6187 *Strychnos spinosa* (Loganiaceae). Isolated compounds: 817.
- T6188 *Strychnos toxifera* (Loganiaceae); DU MA QIAN; Toxic Poisonnut*. Isolated compounds: 13615, 21485.
- T6189 *Strychnos trinervis* (Loganiaceae); SAN YE MAI MA QIAN; Trinervure Poisonnut*. Isolated compounds: 2959.
- T6190 *Strychnos triplinervia* (Loganiaceae); LI JI SAN CHU MAI MA QIAN; Triplinervia Poisonnut*. Isolated compounds: 20410.
- T6191 *Strychnos usambarensis* (Loganiaceae); DONG FEI MA QIAN; East-African Poisonnut*. Isolated compounds: 817, 3614, 11723, 20415, 22275, 22276.
- T6192 *Strychnos vanprukii* (Loganiaceae). Isolated compounds: 817, 4958, 10649, 14123, 16541, 21050.
- T6193 *Strychnos wallichiana* (Loganiaceae); CHANG ZI MA QIAN; Wallich Poisonnut. Used part: seed. TCM Effects: See *Strychnos nux-vomica*. TCM Indications: See *Strychnos nux-vomica*. Isolated compounds: 10459, 10734, 10939.
- T6194 *Stylomecon* spp. Isolated compounds: 3498.
- T6195 *Stylophorum diphyllum* (Papaveraceae); ER YE BAO YING SU; Celandine Poppy. Isolated compounds: 3502.
- T6196 *Stylophorum* spp. Isolated compounds: 3498.
- T6197 *Styrax benzoin* (Styracaceae); AN XI XIANG; Sumatra Snowbell. Equivalent plant: *Styrax tonkinensis*. Used part: balsam. TCM Effects: To open orifices and arouse spirit, break phlegm and repel foulness, move *qi* and quicken blood, relieve pain. TCM Indications: Sudden stroke and fulminant reversal, pain in heart and abdomen, postpartum blood dizziness, child fright epilepsy, wind impediment and lumbago. Isolated compounds: 2222, 3695, 3728, 3986, 17133, 20417, 20430, 20484, 22336.
- T6198 *Styrax ferrugineus* (Styracaceae); XIU SE AN XI XIANG; Ferruginous Snowbell*. Isolated compounds: 8708, 8709, 10664, 10665.
- T6199 *Styrax formosanus* (Styracaceae); TAI WAN AN XI XIANG; Taiwan Snowbell. Isolated compounds: 10665.
- T6200 *Styrax japonica* (Styracaceae); RI BEN AN XI XIANG JING PI; Japanese Snowbell Stem-bark. Isolated compounds: 5584, 6717, 10665, 13592, 13595, 17416, 20420, 20421, 20422, 20423, 20424, 20425, 20426, 20427, 20428, 20429, 20569, 20711.
- T6201 *Styrax obassia* (Styracaceae); YU LING HUA; Fragrant Snowbell. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Oxyuria disease. Isolated compounds: 10665.
- T6202 *Styrax officinalis* (Styracaceae); YAO YONG AN XI XIANG; Drug Snowbell. Isolated compounds: 2264, 14172, 20419.
- T6203 *Styrax* sp. (Styracaceae). Isolated compounds: 3695.
- T6204 *Styrax tonkinensis* (Styracaceae); YUE NAN AN XI XIANG; Tonkin Snowbell. Used part: balsam. TCM Effects: See *Styrax benzoin*. TCM Indications: See *Styrax benzoin*. Isolated compounds: 3727, 3985, 19854.
- T6205 *Sus scrofa* (Suidae); YE ZHU DAN; Wild Boar Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin. TCM Indications: Clove sore, toxin swelling, scalds. Isolated compounds: 10560.
- T6206 *Sus scrofa domestica* (Suidae); ZHU DAN; Pig Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin, moisten dryness. TCM Indications: Febrile diseases with vexation and thirst, constipation, jaundice, pertussis, asthma, diarrhea, dysentery, red eyes, throat impediment, otitis media, swollen welling abscess and clove sores. Isolated compounds: 10560, 10867, 10868, 10869.
- T6207 *Swainsonia canescens* (Fabaceae); HUI BAI KU MA DOU; Canescent Swainsonia*. Isolated compounds: 20500.
- T6208 *Swainsonia galegifolia* (Fabaceae); SHAN YANG DOU YE KU MA DOU; Darling Pea. Isolated compounds: 20500.
- T6209 *Swainsonia luteola* (Fabaceae); DAN HUANG KU MA DOU; Yellowish Swainsonia*. Isolated compounds: 20500.
- T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*] (Fabaceae); KU MA DOU; Saline Swainsonia. Used part: fruit. TCM Effects: To disinhibit urine, disperse swelling. TCM Indications: Edema, inhibited urination, ascites. Isolated compounds: 20151, 20152, 21760.
- T6211 *Swartzia madagascariensis* (Fabaceae); MA DAO SI WO CI DOU; Madagascar Swartzia*. Isolated compounds: 6290, 13638, 18229.
- T6212 *Swertia angustifolia* (Gentianaceae); XIA YE ZHANG YA CAI; Narrowleaf Swertia. Isolated compounds: 1243, 1251, 8304, 20503, 20509, 20510.
- T6213 *Swertia calycina* (Gentianaceae); BAO E ZHANG YA CAI; Calycin Swertia. Isolated compounds: 15718, 20502, 20503, 20509, 20510, 20511, 21172, 21173, 21762.
- T6214 *Swertia chinensis* (Gentianaceae); DANG YAO; Chinese Swertia*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and fortify stomach. TCM Indications: Medullitis, pharyngolaryngitis, tonsillitis, conjunctivitis, hepatitis, indigestion, dysentery, sore and welling abscess with scab and lichen, poisonous snake bites. Isolated compounds: 1017, 1020, 20503, 20509.
- T6215 *Swertia chirata* (Gentianaceae); ZHAI RUI TA ZHANG YA CAI; Chirata Swertia*. Isolated compounds: 2220, 11436, 20502, 20509.
- T6216 *Swertia cincta* (Gentianaceae); XI NAN ZHANG YA CAI; Surrounded Swertia. Isolated compounds: 8304, 20503, 20509.
- T6217 *Swertia davidii* (Gentianaceae); CHUAN DONG ZHANG YA CAI; E.Chuan Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Damp-heat jaundice, lung heat cough, swelling pain in throat, toothache, dysentery, urinary tract infection, suppurative osteomyelitis, conjunctivitis, annexitis, pelvic inflammation, zoster, scab and lichen with sore toxin. Isolated compounds: 5950, 6166, 8304, 8740, 20509, 21793.
- T6218 *Swertia decora* (Gentianaceae); GUAN SHANG ZHANG YA CAI. Isolated compounds: 20504.
- T6219 *Swertia erythrosticta* (Gentianaceae); HONG ZHI ZHANG YA CAI; Redspot Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice, kill worms. TCM Indications: Wind-heat cough, sore swollen throat, jaundice (icterus, ICT), syphilis, swelling and toxin of sore and welling abscess, scab and lichen. Isolated compounds: 8304, 20503, 20509, 20510.
- T6220 *Swertia fasciculata* (Gentianaceae); CU HUA ZHANG YA CAI; Fascicled Swertia*. Isolated compounds: 8304, 20503, 20509, 20510.
- T6221 *Swertia franchetiana* (Gentianaceae); BAO JING ZHANG YA CAI;

- Amplexicaul Swertia. Isolated compounds: 8304, 8758, 19699, 19700, 20509.
- T6222 *Swertia hickinii* (Gentianaceae); ZHE JIANG ZHANG YA CAI; Zhejiang Swertia*. Isolated compounds: 8304, 20509.
- T6223 *Swertia japonica* (Gentianaceae); RI BEN ZHANG YA CAI; Japanese Swertia*. Isolated compounds: 1593, 2546, 2781, 3539, 7970, 8069, 8070, 8601, 8602, 8603, 8636, 8734, 8735, 8736, 9840, 10498, 13506, 14732, 15441, 15799, 15800, 17854, 18736, 20505, 20506, 20507, 20509, 20511, 20512.
- T6224 *Swertia kouitchensis* (Gentianaceae); GUI ZHOU ZHANG YA CAI; Guizhou Swertia*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp. TCM Indications: Fever in children, bitter taste and tidal fever, damp-heat jaundice, sore swollen throat, indigestion, gastritis, mouth sore, toothache, fire eye, poisonous snake bites. Isolated compounds: 8304, 20509.
- T6225 *Swertia macrosperma* (Gentianaceae); DA ZI ZHANG YA CAI; Bigseed Swertia. Isolated compounds: 8304, 20503, 20508, 20509, 20510.
- T6226 *Swertia mileensis* (Gentianaceae); QING YE DAN; Mileen Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp and abate jaundice. TCM Indications: Damp-heat jaundice, heat strangury with inhibited pain, damp-heat diarrhea dysentery, red and white vaginal discharge, influenza, malaria with fever, acute gastritis, acute pharyngolaryngitis, acute tonsillitis, acute conjunctivitis, allergic dermatitis. Isolated compounds: 14566, 16050, 20503, 20505.
- T6227 *Swertia mussoitii* (Gentianaceae); CHUAN XI ZHANG YA CAI; Mussot Swertia. Used part: whole herb. TCM Effects: To clear liver and disinherit gallbladder, abate jaundice, disinherit water and disperse edema. TCM Indications: Acute icterohepatitis, hepatitis, cholecystitis, edema. Isolated compounds: 13481, 16050.
- T6228 *Swertia nervosa* (Gentianaceae); XIAN MAI ZHANG YA CAI; Veined Swertia*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and regulate menstruation. TCM Indications: Jaundice (icterus, ICT), bitter taste, tidal fever. Isolated compounds: 8304, 20503, 20509, 20510.
- T6229 *Swertia patens* (Gentianaceae); XIE JING ZHANG YA CAI; Spreading Swertia*. Used part: whole herb. TCM Effects: To warm center and relieve pain, fortify spleen and disperse accumulation. TCM Indications: Infant common cold, spasmodic abdominal pain, child gan accumulation, indigestion. Isolated compounds: 20509.
- T6230 *Swertia perennis* (Gentianaceae); SU GEN ZHANG YA CAI; Alpine Bog-swertia. Isolated compounds: 15799, 20511.
- T6231 *Swertia pseudochinensis* (Gentianaceae); ZHANG YA CAI; False Chinese Swertia. Used part: whole herb. TCM Effects: To drain fire and resolve toxin, disinherit damp, fortify spleen. TCM Indications: Acute icterohepatitis, chronic liver diseases, damp-heat jaundice, dysentery, gastritis, indigestion, acute conjunctivitis, toothache, mouth sore, swelling pain of sores. Isolated compounds: 5840, 5847, 5848, 6011, 8304, 9616, 11773, 20503, 20509, 20510.
- T6232 *Swertia pubescens* (Gentianaceae); MAO ZHANG YA CAI; Pubescent Swertia. Isolated compounds: 8304, 20503, 20509.
- T6233 *Swertia punctata* (Gentianaceae); XI DIAN ZHANG YA CAI; Punctate Swertia*. Isolated compounds: 8301, 17855.
- T6234 *Swertia punicea* (Gentianaceae); ZI HONG ZHANG YA CAI; Scarlet Swertia. Used part: whole herb. TCM Effects: To clear liver and disinherit gallbladder, clear heat and resolve toxin, disinherit damp. TCM Indications: Acute icterohepatitis, cholecystitis, wind-heat common cold, wind-fire toothache, swelling pain in throat, indigestion, acute bacillary dysentery, infection of urinary system, tinnitus and deafness, burns and scalds. Isolated compounds: 8304, 20503, 20509, 20510, 20512, 20514.
- T6235 *Swertia punicea* var. *lutescens* (Gentianaceae); DAN HUANG ZHANG YA CAI; Yellowish Swertia*. Isolated compounds: 8304, 20509, 20510.
- T6236 *Swertia purpurascens* (Gentianaceae); ZI SE ZHANG YA CAI; Purple Swertia*. Isolated compounds: 15800, 20511.
- T6237 *Swertia randainensis* (Gentianaceae); LUAN DA SHAN ZHANG YA CAI; Randain Swertia*. Isolated compounds: 15800.
- T6238 *Swertia* sp. (Gentianaceae). Isolated compounds: 19545.
- T6239 *Swertia swertiopsis* (Gentianaceae); PU TONG ZHANG YA CAI; Common Swertia*. Isolated compounds: 15799.
- T6240 *Swertia tosaensis* (Gentianaceae); SHANG ZUO ZHOU ZHANG YA CAI; Tosa Swertia*. Isolated compounds: 20511.
- T6241 *Swietenia mahogany* (Meliaceae); TAO HUA XIN MU; West Indian Mahogany. Isolated compounds: 4772, 10768, 20516, 20517, 20518, 20519, 20520, 20521, 20522.
- T6242 *Symphonia globulifera* (Clusiaceae); KA MAI LONG XIN FO NI A; Cameroon Symphonia*. Isolated compounds: 1135, 8555, 8556, 8557, 8558, 20526.
- T6243 *Symphoricarpos* sp. (Caprifoliaceae). Isolated compounds: 7944.
- T6244 *Symphytum asperum* (Boraginaceae); CU XI MEN FEI CAO; Rough Comfrey. Isolated compounds: 9316, 12535.
- T6245 *Symphytum caucasicum* (Boraginaceae); XIN FEI CAO; Caucasian Comfrey. Isolated compounds: 6684, 6686.
- T6246 *Symphytum officinale* (Boraginaceae); XI MEN FEI CAO; Comfrey. Isolated compounds: 6684, 9316, 12420, 12535, 20525, 20527.
- T6247 *Symphytum orientale* (Boraginaceae); DONG FANG XI MEN FEI CAO; Soft Comfrey. Isolated compounds: 6684, 20527.
- T6248 *Symphytum tuberosum* (Boraginaceae); KUAI JING XI MEN FEI CAO; Tuberous Comfrey. Isolated compounds: 6684.
- T6249 *Symphytum x uplandicum* (Boraginaceae); E GUO XI MEN FEI CAO; Russian Comfrey. Isolated compounds: 13235, 20527.
- T6250 *Symplocos caudata* (Symplocaceae); SHAN FAN GEN; Caudate Sweetleaf Root. Used part: root. TCM Effects: To clear heat and disinherit damp, cool blood and stanch bleeding, dispel wind and relieve pain. TCM Indications: Jaundice, diarrhea, dysentery, flooding, wind-fire toothache, headache, wind-damp impediment pain. Isolated compounds: 4680, 5583, 6273, 8681, 10666, 11083, 20446, 20546, 21714, 21923.
- T6251 *Symplocos caudata* (Symplocaceae); SHAN FAN YE; Caudate Sweetleaf Leaf. Used part: leaf. TCM Effects: To clear heat and promote contraction. TCM Indications: Tuberculosis and hemoptysis, hematochezia, chronic dysentery, acute tonsillitis, acute otitis media, wind eye with ulceration of eyelid rim. Isolated compounds: 14552, 14553.

- T6252 *Symplocos chinensis* (Symplocaceae); HUA SHAN FAN; Chinese Sweetleaf. Used part: root. TCM Effects: To clear heat and resolve toxin, transform phlegm and interrupt malaria, free network vessels and relieve pain. TCM Indications: Common cold with fever, diarrhea and dysentery, swelling of sores and boils, poisonous snake bites, malaria, pain in sinews and bones, knocks and falls. Isolated compounds: 20540, 20541, 20542, 20543, 20544, 20545.
- T6253 *Symplocos glomerata* (Symplocaceae); TUAN HUA SHAN FAN; Glomerule Sweetleaf. Isolated compounds: 20529, 20530, 20531, 20532, 20533, 20534, 20535, 20536, 20537, 20538, 20539.
- T6254 *Symplocos racemosa* (Symplocaceae); ZHU ZI SHU; Racemose Sweetleaf. Isolated compounds: 2270, 9234, 19192, 20528, 20547, 20548, 20549.
- T6255 *Synechocytis* sp. (Chroococcaceae). Isolated compounds: 15242.
- T6256 *Syneilesis palmata* (Asteraceae); TU ER SAN; *Syneilesis**. Isolated compounds: 20551.
- T6257 *Syngnathus acus* JIAN HAI LONG; Acute Syngnathus*. Used part: meat or whole fish. TCM Effects: To supplement kidney and invigorate yang, dissipate binds and disperse swelling. TCM Indications: Impotence, emission, sterility, kidney vacuity asthma, concretion conglomeration accumulation and gathering, scrofula, goiter and carcinoma of neck, knocks and falls, swollen welling abscess and clove sores. Isolated compounds: 17127.
- T6258 *Syringa afghanica* (Oleaceae); A FU HAN DING XIANG; Afghanistan Lilac*. Isolated compounds: 6917, 19112, 19113, 19114, 19115, 19116, 19117, 19118, 19119, 20553.
- T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (Oleaceae); BAO MA ZI; Amur Lilac. Used part: Bark, branch and trunk. TCM Effects: To diffuse lung and transform phlegm, relieve cough and calm asthma, disinhibit water. TCM Indications: Chronic bronchitis, asthma, edema due to heart disease. Isolated compounds: 8071, 8737, 8738, 8739, 10819, 12524, 12829, 14733, 15873, 15874, 19626.
- T6260 *Syringa oblata* (Oleaceae); ZI DING XIANG; Early Lilac. Used part: leaf and bark. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Acute diarrhea, icterohepatitis, acute conjunctivitis, sores. Isolated compounds: 4135, 20569.
- T6261 *Syringa pinnatifolia* (Myrtaceae); YU YE DING XIANG; Pinnateleaf Lilac. Used part: root or branch and trunk. TCM Effects: To warm center, downbear qi, warm kidney. TCM Indications: Cold pain in stomach duct and abdomen, cold asthma, prolapse of uterus, prolapse of rectum. Isolated compounds: 22984.
Syringa reticulata var. *amurensis* = *Syringa amurensis*
- T6262 *Syringa vulgaris* (Myrtaceae); OU DING XIANG; Common Lilac. Isolated compounds: 20560.
- T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*] (Myrtaceae); DING XIANG; Clove Tree. Used part: flower bud. TCM Effects: To warm center and downbear counterflow, warm kidney and invigorate yang. TCM Indications: Stomach cold with retching counterflow, hiccough, cold pain in stomach duct and abdomen, reduced food intake and diarrhea, kidney vacuity impotence, vacuity cold in lumbus and knees, yin flat abscess. Isolated compounds: 391, 2222, 2273, 3241, 3301, 3488, 7518, 7520, 7521, 7524, 9669, 11411, 11419, 11420, 13848, 14668, 14718, 16050, 18679, 20389, 20910, 22336.
- T6264 *Syzygium buxifolium* (Myrtaceae); CHI NAN; Boxleaf Syzygium. Used part: root or root cortex. TCM Effects: To boost kidney and settle asthma, fortify spleen and disinhibit damp, expel wind and quicken blood, resolve toxin and disperse swelling. TCM Indications: Edema, asthma, strangury-turbidity, urethral stone, dysentery, hepatitis, prolapse of uterus, wind-damp pain, testitis, hemorrhoids, swollen welling abscess, burns and scalds, painful swelling from knocks and falls. Isolated compounds: 17696, 22270.
- T6265 *Syzygium cordatum* (Myrtaceae); XIN XING PU TAO; Cordate Syzygium*. Isolated compounds: 8095.
Syzygium cumin = *Eugenia jambolana*
- T6266 *Syzygium cumini* (Myrtaceae); YANG SHI GUO; Duhai. Used part: fruit. TCM Effects: To constrain lung and settle asthma, engender liquid, astringe intestines. TCM Indications: Taxation damage cough, vacuity asthma, fluid damage and thirst, chronic diarrhea and dysentery. Isolated compounds: 4446, 7852.
- T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple. Used part: pericarp. TCM Effects: To fortify spleen and warm stomach, supplement lung and relieve cough, break blood and disperse swelling. TCM Indications: Stomach cold and hiccough, spleen vacuity diarrhea, chronic dysentery, lung vacuity cold cough, flat abscess. Isolated compounds: 3303, 5011, 13456.
- T6268 *Syzygium samarangense* (Myrtaceae); YANG PU TAO YE; Samalanga Syzygium. Used part: leaf or bark. TCM Effects: To drain fire and resolve toxin, dry damp and resolve toxin. TCM Indications: Mough and tongue sores, goose-mouth sore, damp-erosion of sores, pudendal itch. Isolated compounds: 5048, 5857, 6923, 10399, 13628, 14676, 15170, 15180, 15181, 15184, 15192, 17403, 18317, 20331, 20394, 22287.

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- T6269 *Tabebuia avellanedae* (Apocynaceae); HE SE ZHONG HUA SHU. Isolated compounds: 1284, 6201, 6205, 6281, 6286, 6287, 9818, 9819, 10606, 10618, 10621, 11146, 11147, 13850, 21927.
- T6270 *Tabebuia impetiginosa* (Apocynaceae); BAN ZHEN ZHONG HUA SHU. Isolated compounds: 6206, 6274, 6281, 6286, 6287, 10606, 10618, 10622, 13949, 14055, 16739, 16740, 21894, 21895, 21925, 21927.
- T6271 *Tabernaemontana chartacea* (Apocynaceae); ZHI ZHI SHAN MA CHA. Isolated compounds: 16966.
- T6272 *Tabernaemontana corymbosa* (Apocynaceae); SAN FANG HUA XU HONG YUE GUI; Corymb Rose-bay*. Isolated compounds: 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 7294, 9933, 9934, 10095.
- T6273 *Tabernaemontana holstii* (Apocynaceae); HE ER TI SHAN MA CHA. Isolated compounds: 16966.
- T6274 *Tabernaemontana johnstonii* (Apocynaceae); YUE HAN SI TONG SHAN MA CHA. Isolated compounds: 16966, 20576.
- T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (Taccaceae); JIAN GEN SHU; Arrowroot Tacca. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, rectify qi and relieve pain. TCM Indications: Gastroenteritis, gastric ulcer, duodenal ulcer, indigestion,

dysentery, hepatitis, sore and boil, swelling pain in throat, toxin swelling of sores. Isolated compounds: 3478, 3479, 5774, 5775, 5776, 5781, 5815, 5816, 5817, 5912, 5913, 8650, 8688, 8702, 8703, 8704, 8707, 10725, 10726, 18719, 20221, 20223, 20596, 20597, 20598.

Tacca esquirolii = *Tacca chantrieri*

Tacca minor = *Tacca chantrieri*

- T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*] (Taccaceae); LIE GUO SHU; Lobedfruit Tacca. Used part: tuber. TCM Effects: To cool blood and disperse stasis, eliminate inflammation and relieve pain. TCM Indications: Peptic ulcer, enteritis, tuberculosis, pertussis, knocks and falls, bleeding due to external injury, sore pharynx, toothache, swollen welling abscess. Isolated compounds: 20587, 20588, 20589, 20590, 20591, 20592, 20593, 20594, 20595.
- T6277 *Tadehagi triquetrum* (Fabaceae); HU LU CHA; Triquetrous Tadehagi. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin, disperse accumulation and disinhibit damp, kill worms. TCM Indications: Common cold with fever, swelling pain in throat, nephritis, icterohepatitis, enteritis, bacillary dysentery, vomiting in pregnancy, ancylostomiasis. Isolated compounds: 20599.
- T6278 *Tagetes erecta* (Asteraceae); WAN SHOU JU; Aztec Marigold. Used part: inflorescence. TCM Effects: To clear heat and resolve toxin, relieve cough and transform phlegm. TCM Indications: Infection of upper respiratory tract, pertussis, conjunctivitis, stomatitis, toothache, dizziness, infant fright wind, amenorrhea, blood stasis and abdominal pain, swelling toxin of welling abscess and sore. Isolated compounds: 2017, 2783, 7441, 7821, 9290, 10273, 13126, 14602, 17263, 17264, 20608, 21018.
- T6279 *Tagetes erecta* (Asteraceae); WAN SHOU JU YE; Aztec Marigold Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Innominate toxin swelling, gan disease, welling abscess, sore, clove sore. Isolated compounds: 12018.
- T6280 *Tagetes maxima* (Asteraceae); ZUI DA WAN SHOU JU; Maxima Marigold*. Isolated compounds: 3389, 10272, 16728, 18306, 18307, 18310, 18316.
- T6281 *Tagetes minuta* (Asteraceae); WEI XIAO WAN SHOU JU; Southern Marigold. Isolated compounds: 2284, 2783, 17090.
- T6282 *Tagetes patula* (Asteraceae); KONG QUE CAO; French Marigold. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, suppress cough. TCM Indications: Cough, dysentery. Isolated compounds: 834, 9290, 16728, 18305, 18316, 19027, 19039, 22520.
- T6283 *Tagetes* sp. (Asteraceae). Isolated compounds: 10775.
- T6284 *Taiwania cryptomerioides* (Taxodiaceae); TAI WAN SHAN; Cryptomeria-like Taiwania. Isolated compounds: 263, 1621, 2848, 2854, 2856, 2857, 2857, 2858, 4310, 4929, 5317, 5998, 5999, 6000, 6099, 6367, 9323, 9746, 10259, 10360, 10455, 10456, 11471, 12223, 14073, 15138, 15141, 16363, 16394, 16416, 16417, 19427, 20629, 20630, 20631, 20632, 20633, 20634, 20635, 20636, 20637, 20638, 20639, 20640, 20641, 20642, 20643, 20644, 21679, 21839.
- T6285 *Tamarindus indica* (Fabaceae); SUAN JIAO; Tamarind Fruit. Used part: fruit. TCM Effects: To clear heat and resolve toxin, harmonize stomach and disperse accumulation. TCM Indications: Summerheat stroke, inappetence, child gan accumulation, vomiting in pregnancy, constipation. Isolated compounds: 9616, 11773, 16196, 17090, 17425, 20715, 22581.
- T6286 *Tamarix chinensis* (Tamaricaceae); CHENG LIU; Chinese Tamarisk. Equivalent plant: *Tamarix ramosissima*. Used part: tender branch-leaf. TCM Effects: To course wind and resolve exterior, disinhibit urine and resolve toxin. TCM Indications: Non-eruption of measles, wind papule itching, common cold, cough and asthma, wind-damp bone pain. Isolated compounds: 8095, 11648, 12015, 12045, 18317, 18348, 20661, 20662, 20663.
- T6287 *Tamarix gallica* (Tamaricaceae); FA GUO CHENG LIU; French Tamarisk. Isolated compounds: 13504.
- T6288 *Tamarix hispida* (Tamaricaceae); GANG MAO CHENG LIU; Kashgar Tamarisk. Isolated compounds: 5791, 11648, 18682.
- T6289 *Tamarix nilotica* (Tamaricaceae); NI LUO HE CHENG LIU; Nilotic Tamarisk*. Isolated compounds: 8095, 15600.
- T6290 *Tamarix ramosissima* (Tamaricaceae); DUO ZHI CHENG LIU; Branchy Tamarisk. Used part: tender branch-leaf. TCM Effects: See *Tamarix chinensis*. TCM Indications: See *Tamarix chinensis*. Isolated compounds: 18348.
- T6291 *Tamus communis* (Dioscoreaceae); JIANG GUO SHU YU; Black Bryony. Isolated compounds: 11246, 13243.
- T6292 *Tanacetum longifolium* (Asteraceae); CHANG YE AI JU; Longleaf Tansy. Isolated compounds: 9412, 20666.
- T6293 *Tanacetum microphyllum* (Asteraceae); XIAO YE JU HAO; Small-leaf Tansy*. Isolated compounds: 3388, 5987, 9765, 12044, 19312.
- T6294 *Tanacetum parthenium* (Asteraceae); CHU AI JU; Feverfew. Isolated compounds: 3076, 19312.
- T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*] (Asteraceae); SI BO LI YA AI JU; Siberian Tansy. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quiet spirit, regulate menstruation. TCM Indications: Ardent fever (hyperpyrexia), palpitation, sleepless, menstrual disorder, swollen welling abscess and sores. Isolated compounds: 9604.
- T6296 *Tanacetum* sp. (Asteraceae). Isolated compounds: 19308.
- T6297 *Tanacetum* spp. (compositae). Isolated compounds: 16675, 17719.
- T6298 *Tanacetum vulgare* (Asteraceae); JU HAO; Common Tansy. Isolated compounds: 19312, 21350.
- T6299 *Tanghinia venenifera* (Apocynaceae); TAN MANG GUO. Isolated compounds: 20671.
- T6300 *Taraxacum formosanum* (Asteraceae); TAI WAN PU GONG YING; Taiwan Dandelion*. Isolated compounds: 874, 1284, 2887, 3551, 3983, 9815, 9818, 14443, 14526, 14652, 14734, 14804, 15526, 19983, 20369, 20554, 20566, 20692, 20693, 20694, 20695, 20696, 20714, 22332, 22336.
- T6301 *Taraxacum mongolicum* (Asteraceae); PU GONG YING; Mongolian Dandelion. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling, disinhibit urine and free strangury. TCM Indications: Epidemic parotitis, infection of upper respiratory tract, tonsillitis, laryngitis, sore pharynx, mastitis, hepatitis, swelling toxin of clove sore, mammary welling abscess, scrofula, red eyes, pulmonary welling abscess, damp-heat jaundice, heat strangury with inhibited pain. Isolated compounds: 2887, 3551, 3589, 20704.
- T6302 *Taraxacum obovatum* (Asteraceae); DAO LUAN YE PU GONG

- YING GEN; Obovateleaf Dandelion Root. Isolated compounds: 4749, 4750, 5724, 10319, 20073, 20714.
- T6303 *Taraxacum officinale* (Asteraceae); YAO YONG PU GONG YING; Official Dandelion. Isolated compounds: 1113, 1476, 1492, 1749, 2887, 3434, 3551, 3589, 3674, 4190, 4680, 6452, 7768, 7821, 7853, 7971, 12891, 13126, 13137, 13687, 16066, 17515, 18317, 19983, 20366, 20369, 20446, 20704, 20705, 20711, 22520.
Taxillus chinensis = *Loranthus parasiticus*
- T6304 *Taxillus levinei* (Loranthaceae); XIU MAO JI SHENG; Rustyhair *Taxillus*. Used part: branch-leaf. TCM Effects: To clear lung and relieve cough, dispel wind-damp. TCM Indications: Lung heat cough, wind-damp pain in lumbus and legs, sore and boil. Isolated compounds: 5763, 11642.
- T6305 *Taxodium distichum* (Taxodiaceae); LUO YU SHAN; Deciduous Cypress. Isolated compounds: 20809, 20810.
- T6306 *Taxodium mucronatum* (Taxodiaceae); MO XI GE LUO YU SHAN; Mexican Cypress*. Isolated compounds: 1030, 6314, 17588.
- T6307 *Taxus baccata* (Taxaceae); JIANG GUO ZI SHAN; Common Yew. Isolated compounds: 152, 157, 158, 284, 285, 355, 369, 519, 2072, 2073, 2076, 2077, 3402, 3697, 3698, 3699, 3701, 3719, 3720, 3721, 4704, 4711, 4713, 4721, 4722, 4723, 4730, 4737, 4780, 4783, 4784, 4798, 4804, 4810, 4812, 4852, 5138, 5139, 5140, 5293, 5294, 5318, 5331, 5538, 6880, 9811, 9812, 9865, 9866, 9867, 9965, 10475, 10739, 14198, 14199, 14739, 18815, 20741, 20742, 20743, 20770, 20793, 20795, 20797, 20806, 20811, 20812, 20814, 20840, 20905, 21160, 21529, 21602, 22845, 22847, 22848, 22849, 22851, 22852.
- T6308 *Taxus brevifolia* (Taxaceae); DUAN YE HONG DOU SHAN; Pacific Yew. Isolated compounds: 2256, 2258, 2604, 4722, 4723, 4729, 4731, 4732, 4733, 4765, 4779, 4849, 5348, 5383, 5459, 5460, 5881, 5882, 7027, 20761, 20762, 20779, 20803, 20811, 20849.
- T6309 *Taxus canadensis* (Taxaceae); JIA NA DA HONG DOU SHAN; Canadian Yew. Isolated compounds: 362, 367, 2236, 2237, 3056, 4725, 4726, 4744, 4781, 4786, 5138, 5304, 5310, 5315, 5328, 5329, 5330, 6157, 6850, 6881, 9763, 9963, 10742, 10777, 10778, 10781, 20743, 20748, 20749, 20750, 20751, 20752, 20822, 20863, 21523, 21603.
- T6310 *Taxus chinensis* (Taxaceae); HONG DOU SHAN; Chinese Yew. Isolated compounds: 156, 363, 368, 2249, 2250, 2252, 2253, 2255, 2265, 3714, 3716, 3717, 4705, 4736, 4737, 4764, 4776, 4777, 4778, 4849, 4853, 4854, 4980, 5294, 5318, 5323, 5331, 6395, 6934, 9505, 9813, 9960, 10739, 20736, 20737, 20743, 20744, 20761, 20764, 20768, 20769, 20770, 20771, 20772, 20773, 20774, 20775, 20776, 20777, 20778, 20779, 20790, 20795, 20797, 20798, 20802, 20811, 20817, 20818, 20866, 20867, 20875, 21160, 21516, 21527, 21529, 21531, 21704, 21705.
- T6311 *Taxus cuspidata* (Taxaceae); ZI SHAN; Japanese Yew. Used part: branchlet-leaf. TCM Effects: To disinhibit urine and free channels, anticancer. TCM Indications: Kidney disease, diabetes mellitus, carcinoma of ovary, carcinoma of mammary glands. Isolated compounds: 2073, 2074, 3721, 4708, 4782, 6679, 6884, 8609, 10738, 10743, 11477, 11728, 11732, 14651, 15664, 17700, 19514, 20738, 20739, 20740, 20743, 20762, 20780, 20781, 20782, 20783, 20784, 20785, 20786, 20787, 20788, 20789, 20790, 20794, 20797, 20798, 20799, 20800, 20801, 20802, 20807, 20811, 20813, 20840, 20841, 20842, 20843, 20844, 20845, 20846, 20847, 20848, 20849, 20851, 20852, 20853, 20854, 20855, 20856, 20857, 20858, 20859, 20860, 20861, 20862, 20863, 20864, 20865, 20868, 20869, 20870, 20871, 20872, 20873, 21529.
- T6312 *Taxus mairei* (Taxaceae); MEI LI HONG DOU SHAN; Maire Yew. Used part: seed. TCM Effects: To disperse accumulation, expel roundworm. TCM Indications: Food accumulation, ascariasis. Isolated compounds: 120, 151, 2074, 3715, 3717, 4708, 4734, 4735, 4785, 4981, 4984, 5294, 5320, 5321, 9811, 10476, 10740, 10780, 14199, 20647, 20745, 20746, 20797, 20800, 20802, 20811, 20819, 20820, 20821, 20822, 20823, 20824, 20825, 20826, 20827, 20828, 20829, 20830, 20831, 20832, 20834, 20835, 20836, 20837, 20838, 20839, 20840, 21029, 22951.
- T6313 *Taxus media* (Taxaceae); JIE ZHI HONG DOU SHAN; Media Yew. Isolated compounds: 2074, 2077, 4793, 4980, 4981, 20811.
- T6314 *Taxus* sp. (Taxaceae). Isolated compounds: 2075, 2078, 20850.
- T6315 *Taxus* spp. (Taxaceae). Isolated compounds: 20805.
- T6316 *Taxus sumatrana* (Taxaceae); SU MEN DA LA HONG DOU SHAN; Sumatran Yew. Isolated compounds: 531, 2073, 3402, 4722, 4736, 4762, 4763, 4765, 4787, 6140, 9812, 9961, 10558, 20718, 20719, 20720, 20721, 20722, 20723, 20724, 20725, 20739, 20765, 20796, 20800, 20803, 20811, 20822, 20823, 20833, 20834, 20835, 20836, 20854, 22630.
- T6317 *Taxus wallichiana* (Taxaceae); XI MA LA YA HONG DOU SHAN; Himalayan Yew. Isolated compounds: 150, 337, 519, 4702, 4704, 4707, 4783, 4784, 4801, 4802, 4803, 4808, 4851, 5478, 6315, 7046, 9811, 9812, 9962, 20739, 20753, 20754, 20755, 20756, 20757, 20758, 20811, 20812, 21028, 21161, 21533, 22630.
- T6318 *Taxus x media* (Taxaceae); ZA JIAO JIE ZHI HONG DOU SHAN; Media Yew (hybrid). Isolated compounds: 2235, 4706, 4710, 4724, 4805, 4807, 4813, 6868, 14739, 20747, 20776, 20813, 20814, 20870.
- T6319 *Taxus yunnanensis* (Taxaceae); YUN NAN HONG DOU SHAN; Yunnan Yew. Isolated compounds: 129, 133, 176, 182, 257, 288, 293, 328, 2073, 2073, 2075, 3980, 3983, 4636, 4637, 4638, 4639, 4704, 4705, 4708, 4722, 4726, 4727, 4728, 4766, 4781, 4787, 4788, 4850, 4855, 4979, 4980, 5145, 5289, 5348, 6884, 7028, 9626, 9627, 9628, 9811, 9812, 10314, 10779, 10782, 11732, 19618, 20758, 20759, 20760, 20761, 20762, 20763, 20764, 20765, 20766, 20767, 20786, 20787, 20796, 20797, 20800, 20802, 20804, 20806, 20811, 20812, 20813, 20815, 20816, 20824, 20840, 20850, 20851, 20869, 20871, 20874, 20875, 20876, 20877, 20878, 20879, 20880, 20881, 20882, 20883, 20884, 20885, 21515, 21529, 21686, 22336, 22846, 22853, 22939, 22950, 22951, 22952.
- T6320 *Teclea grandifolia* (Rutaceae); DA YE YOU MU YUN XIANG. Isolated compounds: 20895.
- T6321 *Teclea natalensis* (Rutaceae). Isolated compounds: 20893, 20894.
- T6322 *Teclea nobilis* (Rutaceae); GAO GUI YOU MU YUN XIANG. Isolated compounds: 1267, 3547, 7808, 9227, 11733, 14620, 15638, 20892, 20893.
- T6323 *Teclea oubanguiensi* (Rutaceae). Isolated compounds: 20895.
- T6324 *Tecoma stans* (Bignoniaceae); HUANG ZHONG HUA; Florida Yellowtrumpet. Isolated compounds: 582, 17513, 20896, 20898.
- T6325 *Tectona grandis* (Verbenaceae); YOU MU; Common Teak. Used part:

- stem-leaf. TCM Effects: To harmonize center and check vomiting, dispel wind and relieve itch. TCM Indications: Nausea and vomiting, wind papule itching. Isolated compounds: 967, 3615, 5188, 6015, 10313, 12503, 14144.
- T6326 *Telekia speciosa* (Compositae); MEI LI TE LE JU. Used part: whole herb. TCM Indications: Wind-damp. Isolated compounds: 1888, 11203, 20906.
- T6327 *Telotoxicum peruvianum*. Isolated compounds: 15792.
- T6328 *Tellima grandifolia* (Saxifragaceae); XIN SHAO NA CAO; Fringecups. Isolated compounds: 7518, 20910.
- T6329 *Telosma procumbens* (Asclepiadaceae); WO JING YE LAI XIANG; Creeping Telosma. Isolated compounds: 20912, 20913, 20914, 20915, 20916, 20917, 20918, 20919, 20920, 20921, 20922, 20923, 20924, 20925, 20926, 20927, 20928, 20929.
- T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*] (Asteraceae); GOU SHE CAO; Kirilow Groundsel Herb. Used part: herb. TCM Effects: To clear heat, disinherit water, kill worms. TCM Indications: Nephritis with edema, open pus sore of lung, swollen boil, scab sore. Isolated compounds: 17546.
- T6331 *Tephrosia aequilata* (Fabaceae); KEN NI YA HUI YE; Kenya Tephrosia*. Isolated compounds: 6349.
- T6332 *Tephrosia calophylla* (Fabaceae); MEI LI YE HUI MAO DOU; Beautiful-leaf Tephrosia*. Isolated compounds: 1935, 14465, 20964.
- T6333 *Tephrosia crassifolia* (Fabaceae); HOU YE HUI MAO DOU; Crassleaf Tephrosia*. Isolated compounds: 4212, 4213.
- T6334 *Tephrosia elata* (Fabaceae); GAO HUI MAO DOU; High Tephrosia*. Isolated compounds: 20965, 22637.
- T6335 *Tephrosia hamiltonii* (Fabaceae); HAN MI ER DUN HUI YE; Hamilton Tephrosia*. Isolated compounds: 18223.
- T6336 *Tephrosia hildebrandtii* (Fabaceae); XI SHI HUI MAO DOU; Hildebrandt Tephrosia*. Isolated compounds: 9540.
- T6337 *Tephrosia noctiflora* (Fabaceae); YE HUA HUI MAO DOU; Long Inflorescence Tephrosia. Isolated compounds: 22158.
- T6338 *Tephrosia purpurea* (Fabaceae); HUI YE; Purple Tephrosia. Used part: whole herb. TCM Effects: To resolve exterior and clear heat, dry damp and resolve toxin. TCM Indications: Wind-heat common cold, eczema, dermatitis. Isolated compounds: 1403, 1404, 18218, 18223.
- T6339 *Tephrosia purpurea* (Fabaceae); HUI YE GEN; Purple Tephrosia Root. Used part: root. TCM Effects: To clear heat and disperse stagnation, move *qi* and relieve pain, contract damp and relieve itch. TCM Indications: Indigestion, gastritis, abdominal distention, stomachache, eczema, dermatitis. Isolated compounds: 4872, 4898, 10421, 10680, 14683, 17708, 18063, 18223, 18939, 20965, 21483.
- T6340 *Tephrosia* sp. (Fabaceae). Isolated compounds: 4872, 10680.
- T6341 *Tephrosia toxicaria* (Fabaceae); DU HUI MAO DOU; Toxic Tephrosia*. Isolated compounds: 1436, 2280, 2282, 3602, 5595, 8278, 10430, 10741, 10741, 11504, 13097, 13571, 15887, 20485, 21483.
- T6342 *Tephrosia tunicata* (Fabaceae); BAO MO HUI MAO DOU; Tunicate Tephrosia*. Isolated compounds: 22110.
- T6343 *Terminalia arborea* (Combretaceae); QIAO MU ZHUANG LAN REN; Arboreous Terminalia*. Isolated compounds: 18202.
- T6344 *Terminalia arjuna* (Combretaceae); A JIANG LAN REN. Isolated compounds: 1733, 1734, 3303.
- T6345 *Terminalia calamansanai* (Combretaceae). Isolated compounds: 17754.
- T6346 *Terminalia chebula* (Combretaceae); HE ZI; Medicine Terminalia. Equivalent plant: *Terminalia chebula* var. *tomentella*. Used part: fruit. TCM Effects: To constrain lung and astringe intestines, downbear fire and disinhibit throat. TCM Indications: Chronic diarrhea and dysentery, hematochezia, prolapse of rectum, cough and asthma due to lung vacuity, incessant cough, aphonia due to throat pain. Isolated compounds: 1732, 3318, 3490, 3493, 4055, 4968, 6757, 7441, 8095, 8108, 16836, 18204, 18421, 19749, 20970, 20974, 20977, 21643.
- T6347 *Terminalia chebula* (Combretaceae); HE ZI YE; Medicine Terminalia Leaf. Used part: leaf. TCM Effects: To precipitate *qi* and disperse phlegm, allay thirst, check dysentery. TCM Indications: Enduring cough and aphonia, chronic diarrhea, chronic dysentery. Isolated compounds: 4968, 18421.
- T6348 *Terminalia chebula* var. *tomentella* (Combretaceae); WEI MAO HE ZI; *Terminalia chebula* var. *tomentella*. Used part: fruit. TCM Effects: See *Terminalia chebula*. TCM Indications: See *Terminalia chebula*. Isolated compounds: 20975, 21273.
- T6349 *Terminalia stuhlmannii* (Combretaceae); A KA XI A LAN REN; Acacia Terminalia*. Isolated compounds: 10226.
- T6350 *Ternstroemia japonica* (Theaceae); RI BEN HOU PI XIANG; Japanese Cleyera. Isolated compounds: 5241, 18699, 20980, 20981, 20982, 20983, 20984, 20985.
- T6351 *Tessaria integrifolia* (Asteraceae); QUAN YUAN YE TE SA JU. Isolated compounds: 5415, 11094, 11095, 11096, 11097, 11098.
- T6352 *Tetracentron sinense* (Tetracentraceae); SHUI QING SHU; Tetracentron. Isolated compounds: 21035, 21036.
- T6353 *Tetracera asiatica* (Dilleniaceae); XI YE TENG; Asian Tetracera. Used part: root or leaf. TCM Effects: To promote contraction and stem desertion, disperse swelling and relieve pain. TCM Indications: Enteritis, dysentery, prolapse of rectum, emission, knocks and falls. Isolated compounds: 2052, 18679, 18682.
- T6354 *Tetradium daniellii*. Isolated compounds: 10053.
- T6355 *Tetradymia glabrata* (Asteraceae); GUANG SI SHI JU; Littleleaf Horsebrush. Isolated compounds: 10238, 21051.
- T6356 *Tetrapanax papyriferus* (Araliaceae); TONG HUA GEN; Ricepaperplant Root. Used part: root. TCM Effects: To clear heat and disinhibit urine, rectify *qi* and disperse food, quicken blood and promote milk. TCM Indications: Edema, strangury syndrome, food accumulation distention and fullness, lump glomus, wind-damp impediment pain, menstrual disorder, galactostasis. Isolated compounds: 14633, 16046, 16047, 18712.
- T6357 *Tetrapanax papyriferus* (Araliaceae); TONG TUO MU; Ricepaperplant. Used part: stem marrow. TCM Effects: To clear heat and disinhibit water, free milk. TCM Indications: Strangury with pain, inhibited urination, edema, jaundice, damp-heat disease, short voidings of reddish urine, postpartum scant milk, amenorrhea, Vaginal discharge. Isolated compounds: 1608, 16635, 16636, 16637, 16638, 16639, 16640, 16641, 16642, 16643, 16644, 16645, 16646, 16647, 17917, 17918.
- Tetraplodon bryoides* = *Tetraplodon mnioides*
- T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum*

- mnioides*] (Spalchnaceae); BING CHI XIANG. Used part: plant body. TCM Effects: To calm and quiet spirit. TCM Indications: Disquieted spirit-mind, palpitation, sleepless, epilepsy, wind stroke with loss of speech. Isolated compounds: 11532, 15980.
- T6359 *Teucrium bidentatum* (Lamiaceae); ER CHI XIANG KE KE; Twodenntate Germander. Used part: root or whole herb. TCM Effects: To dispel wind, disinhibit damp, resolve toxin. TCM Indications: Common cold, headache, nasal congestion, dysentery, eczema, eczema leukoplakia. Isolated compounds: 21223, 21228.
- T6360 *Teucrium chamaedrys* (Lamiaceae); SHI CAN XIANG KE KE; Chamaedrys Germander. Isolated compounds: 7124, 21214, 21215.
- T6361 *Teucrium fruticans* (Lamiaceae); GUAN CONG XIANG KE KE; Fluticose Germander*. Isolated compounds: 425, 4742, 7972, 10130, 10131, 10132, 11430.
- Teucrium japonicum* var. *pilosum* = *Teucrium pilosum*
- T6362 *Teucrium marum* (Lamiaceae); MA SHI XIANG KE KE; Cat Thyme. Isolated compounds: 6550.
- T6363 *Teucrium montanum* (Lamiaceae); SHAN XIANG KE KE; Montane Germander*. Isolated compounds: 524, 14946.
- T6364 *Teucrium orientale* (Lamiaceae); DONG FANG XIANG KE KE; Oriental Germander. Isolated compounds: 4789, 10761, 21217, 21218, 21219, 21220.
- T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (Lamiaceae); CHANG MAO XIANG KE KE; Pilose Germander. Used part: whole herb. TCM Effects: To dispel wind and effuse exterior, clear heat and resolve toxin, relieve itch. TCM Indications: Wind-heat common cold, sore swollen throat, mumps, pulmonary welling abscess, dysentery, lacquer sore, eczema, scab and lichen, wind papules [=rubella]. Isolated compounds: 21216, 21221.
- T6366 *Teucrium polium* (Lamiaceae); HUI BAI SHI CAN; Narrowleaf Germander. Isolated compounds: 486, 21226, 21227.
- T6367 *Teucrium quadrifarium* (Lamiaceae); TIE ZHOU CAO; Fourfile Germander. Used part: whole herb, root or leaf. TCM Effects: To dispel wind and resolve summerheat, disinhibit damp and disperse swelling, cool blood and resolve toxin. TCM Indications: Wind-heat common cold, summerheat stroke and anidrosis, lung heat cough asthma, pulmonary welling abscess, heat toxin dysentery, edema, wind-damp pain, taxation damage, blood ejection, hematochezia, mammary welling abscess, innominate toxin swelling, wind papules, eczema, knocks and falls, bleeding due to external injury, poisonous snake bite, bee sting. Isolated compounds: 21229.
- T6368 *Teucrium scordium* (Lamiaceae); SUAN WEI XIANG KE KE; Garlicsmell Germander*. Isolated compounds: 524, 525, 10762, 21213.
- T6369 *Teucrium scorodonia* (Lamiaceae); LIN SHI CAN; Wood Sage. Isolated compounds: 12420.
- T6370 *Teucrium tomentosum* (Lamiaceae); RONG MAO XIANG KE KE; Tomentose Germander. Isolated compounds: 525, 5342, 10762, 14946, 21213, 21222, 21224.
- T6371 *Teucrium viscidum* var. *miquelianum* (Lamiaceae); MAN HUO XIANG. Isolated compounds: 21224.
- T6372 *Thalictrum acutifolium* (Ranunculaceae); JIAN YE TANG SONG CAO; Sharpleaf Meadowrue. Used part: root and rhizome. TCM Effects: See *Thalictrum faberi*. TCM Indications: See *Thalictrum faberi*. Isolated compounds: 596, 14484, 21888.
- T6373 *Thalictrum alpinum* (Ranunculaceae); GAO SHAN TANG SONG CAO; Alpine Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat and drain fire, resolve toxin. TCM Indications: Headache and red eyes, diarrhea, dysentery, sores. Isolated compounds: 15787, 21251, 21259, 21268, 21269.
- T6374 *Thalictrum atriplex* (Ranunculaceae); XIA XU TANG SONG CAO; Narrowraceme Meadowrue. Used part: rhizome and root. TCM Effects: To clear heat and resolve toxin, cool liver, check dysentery. TCM Indications: Swelling and toxin of sore and welling abscess, damp-heat jaundice, dysentery, conjunctivitis. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6375 *Thalictrum baicalense* (Ranunculaceae); BEI JIA ER TANG SONG CAO; Baikal Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 8513, 13374, 19983.
- T6376 *Thalictrum cultratum* (Ranunculaceae); GAO YUAN TANG SONG CAO; Highland Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 21246, 21248, 21265.
- T6377 *Thalictrum dasycarpum* (Ranunculaceae); CU GUO TANG SONG CAO; Purple Meadowrue. Isolated compounds: 4121, 12561, 13374, 21239, 21251.
- T6378 *Thalictrum delavayi* (Ranunculaceae); PIAN CHI TANG SONG CAO; Delavay Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, jaundice, leukorrhea, wind-fire toothache, red eyes with gall, toxin swelling of sores. Isolated compounds: 18057.
- T6379 *Thalictrum dioicum* (Ranunculaceae); YI XING TANG SONG CAO; Early Meadowrue. Isolated compounds: 16816, 21239.
- T6380 *Thalictrum elegans* (Ranunculaceae); XIAO YE TANG SONG CAO; Small-leaf Meadowrue. Isolated compounds: 21187.
- T6381 *Thalictrum faberi* (Ranunculaceae); DA YE TANG SONG CAO; Faber Meadowrue. Equivalent plant: *Thalictrum acutifolium*, *Thalictrum fortunei*. Used part: root and rhizome. TCM Effects: To clear heat, drain fire, resolve toxin. TCM Indications: Dysentery, diarrhea, red eyes with gall, damp-heat jaundice. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21235, 21251, 21253, 21261.
- T6382 *Thalictrum fargesii* (Ranunculaceae); CHENG KOU TANG SONG CAO; Farges Meadowrue. Isolated compounds: 21251.
- T6383 *Thalictrum fendleri* (Ranunculaceae); FEN SHI TANG SONG CAO; Fendler's Meadowrue. Isolated compounds: 9441, 14251, 21253.
- T6384 *Thalictrum filamentosum* (Ranunculaceae); HUA TANG SONG CAO; Filamentary Meadowrue. Isolated compounds: 21246.
- T6385 *Thalictrum flavum* (Ranunculaceae); HUANG TANG SONG CAO; Maidenhair Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 21239.
- T6386 *Thalictrum foetidum* (Ranunculaceae); XIANG TANG SONG CAO; Tibetan Meadowrue. Used part: root and rhizome. TCM Effects: To

- clear heat and dry damp, resolve toxin. TCM Indications: Damp-heat dysentery, jaundice, red eyes with gall, swollen welling abscess, sore and boil, wind-damp-heat impediment. Isolated compounds: 4492, 4680, 7793, 8513, 9235, 11256, 11736, 13374, 13836, 19087, 21235, 21236, 21252, 21267.
- T6387 *Thalictrum foliolosum* (Ranunculaceae); MA WEI LIAN; Manyleaf Meadowrue. Equivalent plant: *Thalictrum baicalense*, *Thalictrum flavum*, *Thalictrum cultratum*, *Thalictrum glandulosissimum*. Used part: rhizome and root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Influenza, fever in children, common cold with fever, measles papules, malaria, damp-heat diarrhea dysentery, jaundice, red eyes with gall. Isolated compounds: 930, 2300, 2303, 3934, 4032, 4290, 9441, 11736, 11851, 13374, 15787, 16439, 16441, 16555, 17983, 18655, 21234, 21253, 21254, 21263, 21268, 21269, 22771.
- T6388 *Thalictrum fortunei* (Ranunculaceae); HUA DONG TANG SONG CAO; Fortune Meadowrue. Used part: root and rhizome. TCM Effects: See *Thalictrum fabri*. TCM Indications: See *Thalictrum fabri*. Isolated compounds: 8626, 8627, 8628, 8629, 21256.
- T6389 *Thalictrum glandulosissimum* (Ranunculaceae); JIN SI MA WEI LIAN; Gold-enthread Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6390 *Thalictrum glaucum* (Ranunculaceae); LV TANG SONG CAO; Glaucous Meadowrue*. Isolated compounds: 21257.
- T6391 *Thalictrum hernandezii* (Ranunculaceae); HE SHI TANG SONG CAO; Hernandez Meadowrue*. Isolated compounds: 9441.
- T6392 *Thalictrum honanense* (Ranunculaceae); HE NAN TANG SONG CAO; Honan Meadowrue. Isolated compounds: 631, 11851, 21254.
- T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*] (Ranunculaceae); DUN YE TANG SONG CAO; Peltateleaf Meadowrue. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, dry damp. TCM Indications: Damp-heat jaundice, damp-heat dysentery, infant fright wind, red eyes with gall, erysipelas wandering wind, goose-mouth sore, knocks and falls. Isolated compounds: 21246, 21259.
- T6394 *Thalictrum incidum* (Ranunculaceae); XIA YE TANG SONG CAO; Narrowleaf Meadowrue. Isolated compounds: 15881.
- T6395 *Thalictrum isopyroides* (Ranunculaceae); ZI JIN YE TANG SONG CAO; Corydalisleaf Meadowrue. Isolated compounds: 21263.
- T6396 *Thalictrum longistylum* (Ranunculaceae); CHANG ZHU TANG SONG CAO; Longstyle Meadowrue*. Isolated compounds: 5100.
- T6397 *Thalictrum lucidum* (Ranunculaceae); TOU MING TANG SONG CAO; Lucid Meadowrue*. Isolated compounds: 1769, 9597, 11851, 15881, 15885, 16439, 21240, 21251, 21257, 21270.
- T6398 *Thalictrum microgynum* (Ranunculaceae); XIAO GUO TANG SONG CAO; Smallfruit Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Yellow swelling in whole body, yellow eyes, knocks and falls. Isolated compounds: 930, 2300, 2303, 4032, 4290, 8513, 9441, 11736, 11851, 16414, 16439, 16555, 17983, 21246, 21253.
- T6399 *Thalictrum minus* (Ranunculaceae); XIAO TANG SONG CAO; Low Meadowrue. Isolated compounds: 1667, 13374, 14756, 15881, 20649, 21235, 21237, 21238, 21240, 21243, 21251, 21257, 21260, 21261, 21266, 21268, 21270.
- T6400 *Thalictrum minus* var. *adiantifolium* (Ranunculaceae); TIE XIAN JUE YE TANG SONG CAO; Maidenhair-like Meadowrue*. Isolated compounds: 631, 15787, 21255.
- T6401 *Thalictrum minus* var. *hypoleucum* (Ranunculaceae); DONG YA TANG SONG CAO. Isolated compounds: 13374.
Thalictrum multipeltatum = *Thalictrum ichangense*
- T6402 *Thalictrum omeiense* (Ranunculaceae); E MEI TANG SONG CAO; Omei Meadowrue. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dry damp, interrupt malaria. TCM Indications: Damp-heat jaundice, abdominal pain and diarrhea, red eyes with gall, malaria with chills and fever. Isolated compounds: 13836, 21265.
- T6403 *Thalictrum petaloideum* (Ranunculaceae); BAN RUI TANG SONG CAO; Petalformed Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, jaundice, lung heat cough, red eyes with gall, swelling welling abscess and sore and boil, exudative dermatitis. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6404 *Thalictrum podocarpum* (Ranunculaceae); BING GUO TANG SONG CAO; Stalkedfruit Meadowrue*. Isolated compounds: 5100, 5260, 9441, 21253, 21257.
- T6405 *Thalictrum polygamum* (Ranunculaceae); ZA XING TANG SONG CAO; Tall Meadowrue. Isolated compounds: 2304, 16816, 21239, 21257, 21266.
- T6406 *Thalictrum revolutum* (Ranunculaceae); WAI JUAN TANG SONG CAO; Waxy Meadowrue. Isolated compounds: 16816, 21239, 21251, 21257, 21266, 21268.
- T6407 *Thalictrum rugosum* (Ranunculaceae); ZOU WEN TANG SONG CAO; Rugose Meadowrue*. Isolated compounds: 1667, 4121, 9597, 15787, 15885, 21234, 21251, 21257, 21263, 21266, 21268, 21269, 21270.
- T6408 *Thalictrum sessile* (Ranunculaceae); WU BING TANG SONG CAO; Javan Meadowrue. Isolated compounds: 21245.
- T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (Ranunculaceae); YING SHUI HUANG LIAN; Slim-top Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Jaundice, dysentery, lung heat cough, red eyes with gall, gan of nose. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21234, 21241, 21242, 21246, 21249, 21253, 21262.
Thalictrum simplex var. *brevipes* = *Thalictrum simplex*
- T6410 *Thalictrum smithii* (Ranunculaceae); BIAN ZHU TANG SONG CAO; Smith Meadowrue. Used part: aerial parts. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Abdominal pain and diarrhea, dizziness. Isolated compounds: 4467.
- T6411 *Thalictrum* sp. (Ranunculaceae). Isolated compounds: 21264.
- T6412 *Thalictrum squarrosum* (Ranunculaceae); ZHAN ZHI TANG SONG CAO; Spreading Meadowrue*. Used part: root and rhizome (or whole herb). TCM Effects: To clear heat and resolve toxin, inhibit acid. TCM Indications: Acute conjunctivitis, infective hepatitis, dysentery, stomach disease and acid vomiting. Isolated compounds: 21251.

- T6413 *Thalictrum strictum* (Ranunculaceae); BI ZHI TANG SONG CAO; Strict Meadowrue*. Isolated compounds: 21246.
- T6414 *Thalictrum thunbergii* (Ranunculaceae); YAN GUO CAO; East-Asia Low Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, dry damp. TCM Indications: Pertussis, toothache, swelling toxin of welling abscess and sore, acute dermatitis, eczema. Isolated compounds: 930, 1492, 1667, 2300, 2303, 4032, 4290, 9441, 9597, 11736, 11851, 13374, 14756, 16439, 16555, 17983, 20649, 21240, 21244, 21247, 21248, 21253.
Thalictrum tripeltatum = *Thalictrum ichangense*
- T6415 *Thalictrum urbainii* (Ranunculaceae); TAI WAN TANG SONG CAO; Taiwan Meadowrue. Isolated compounds: 11344.
- T6416 *Thamnia vermicularis* (Thamniaceae); XUE CHA; Vermiculate Thamnia Thallus. Used part: lichen body. TCM Effects: To clear heat and allay thirst, arouse spirit. TCM Indications: Summerheat stroke, vexation and thirst, lung heat cough, *yin* vacuity tidal fever, epilepsy, insomnia, eye diseases. Isolated compounds: 1596, 20238, 21271, 21272, 22402.
- T6417 *Thamnia vermicularis* var. *subuliformis* (Thamniaceae); Lichen. Isolated compounds: 2101.
- T6418 *Thamnosma rhodesica* (Rutaceae). Isolated compounds: 2833, 3856, 8985, 10465, 11001, 11601, 13571, 18784, 19077.
- T6419 *Thapsia garganica* (Asteraceae); DU HU LUO BO; Deadly Carrot. Isolated compounds: 15811, 21279.
- T6420 *Thelephora aurantiotincta* (Thelephoraceae); JIN HUANG GE JUN; Goldenyellow Thelephore*. Isolated compounds: 2000, 8132, 8133, 9818, 14150, 21293, 21294, 21295, 21296, 21297, 21298, 21299, 21300, 21307.
- T6421 *Thelephora terrestris* (Thelephoraceae); LU SHENG GE JUN; Terrestrial Thelephore*. Isolated compounds: 20386, 21002, 21003, 21006, 21007, 21008, 21009, 21010, 21011, 21012.
- T6422 *Thelephora vialis* (Thelephoraceae); LIAN ZUO GE JUN; Vase Thelephore. Used part: sporocarp. TCM Effects: To dispel wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels. Isolated compounds: 12598, 13790, 13791, 13792.
- T6423 *Theobroma cacao* (Sterculiaceae); KE KE; Cocoa. Used part: seed. TCM Effects: To warm *yang*, disinhibit urine, raise spirit. Isolated compounds: 1562, 1564, 3551, 6863, 8051, 17876, 17888, 19198, 21310.
- T6424 *Thermopsis alpina* (Fabaceae); GAO SHAN HUANG HUA; Alpine Thermopsis. Used part: flower and fruit. TCM Effects: To extinguish wind and settle fright. TCM Indications: Rabid dog bite. Isolated compounds: 4594, 21318.
- T6425 *Thermopsis alternifolia* (Fabaceae); HU SHENG YE YE JUE MING; Alternateleaf Thermopsis*. Isolated compounds: 4594.
- T6426 *Thermopsis chinensis* (Fabaceae); XIAO YE YE JUE MING; Chinese Thermopsis. Used part: root or seed. TCM Effects: To clear heat and brighten eyes. TCM Indications: Red eyes with gall. Isolated compounds: 4594.
- T6427 *Thermopsis cinerea* (Fabaceae); HUI HUANG HUA; Cinereous Thermopsis*. Isolated compounds: 15972.
- T6428 *Thermopsis lanceolata* (Fabaceae); MU MA DOU; Lanceleaf Thermopsis. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, moisten intestines and free stool. TCM Indications: Cough of phlegm asthma, dry stool. Isolated compounds: 329, 1134, 1672, 4594, 7900, 13089, 18819, 20133, 21317, 21318.
- T6429 *Thermopsis lupinoides* (Fabaceae); YE JUE MING; Wild Thermopsis. Used part: whole herb and seed. TCM Effects: To resolve toxin and disperse swelling, dispel phlegm and promote vomiting. TCM Indications: Malign sore, scab and lichen. Isolated compounds: 4594, 16494, 21318.
- T6430 *Thermopsis* spp. (Fabaceae). Isolated compounds: 3004, 16209.
- T6431 *Thesium chinense* (Santalaceae); BAI RUI CAO; Chinese Bastardtoadflax. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Wind-heat common cold, summerheat stroke, pulmonary welling abscess, nipple moth, scrofula, mammary welling abscess, swollen boil, strangury syndrome, jaundice, lumbago, emission. Isolated compounds: 12020, 20444.
- T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*] (Malvaceae); YANG YE XIAO JIN; Portiatree. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, eliminate inflammation and disperse swelling (leaf), enrich and supplement (root). TCM Indications: Meningitis, dysentery, hemorrhoids, painful swollen testes, scab and lichen; bark: dysentery, hemorrhoids, skin diseases. Isolated compounds: 13513, 13514, 13515, 13516, 21320, 21321.
- T6433 *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (Apocynaceae); HUANG HUA JIA ZHU TAO; Yellow Oleander. Used part: seed. TCM Effects: To strengthen heart, disinhibit urine and disperse edema. TCM Indications: Cardiac failure, paroxysmal supraventricular tachycardia, paroxysmal fibrillation. Isolated compounds: 2556, 3416, 3417, 12019, 12046, 12093, 13100, 13418, 15494, 16587, 16996, 16999, 17000, 17001, 17002, 17003, 18354, 18362, 18363, 18395, 19090, 20088, 20148, 21322, 21323, 21324, 21325, 21326, 21327, 22426.
Thevetia peruviana = *Thevetia nerifolia*
- T6434 *Thichothecium roseum*. Isolated compounds: 21577.
- T6435 *Thladiantha cordifolia* (Cucurbitaceae); XIN YE CHI BO; Heartleaf Tubergourd. Used part: root and fruit. TCM Effects: To clear heat and resolve toxin, fortify stomach and relieve pain (root), disperse swelling (fruit). Isolated compounds: 5649, 21335, 22842.
- T6436 *Thlaspi arvense* (Brassicaceae); XI MING; Boor's Mustard. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Red eyes with gall, pulmonary welling abscess, diarrhea, dysentery, leukorrhea, postpartum blood stasis abdominal pain, indigestion, nephritis with edema, cirrhosis with ascites, swelling toxin of welling abscess and sore. Isolated compounds: 19935.
- T6437 *Thlaspi arvense* (Brassicaceae); XI MING ZI; Boor's Mustard Seed. Used part: seed. TCM Effects: To brighten eyes, dispel wind-damp. TCM Indications: Sore red swollen eyes and tearing, wind-damp impediment pain. Isolated compounds: 14336, 19935.
- T6438 *Thuja occidentalis* (Cupressaceae); BEI MEI YA BAI; Eastern Arborvitae. Isolated compounds: 1372, 1373, 1394, 1395, 5543, 7751, 15412, 21350.
- T6439 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]

- (Cupressaceae); CE BAI ZHI JIE; Chinese Arborvitae Branch. Used part: branchlet. TCM Effects: To dispel wind and eliminate damp, resolve toxin and cure sores. TCM Indications: Wind impediment, joint running wind, cholera cramp, gum swelling and pain. Isolated compounds: 2396, 2397, 3466, 4368, 4369, 4370, 4371, 4372, 4374, 4375, 4392, 4894, 5924, 11255, 11256, 11357, 13625, 21351, 22656, 22659, 22660, 22661.
- T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*] (Cupressaceae); CE BAI YE; Chinese Arborvitae Leaf. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, relieve cough and dispel phlegm, dispel wind-damp, dissipate toxin swelling. TCM Indications: Hemoptysis, duodenal bleeding, chronic bronchitis, tuberculosis, blood ejection, spontaneous external bleeding, hematuria, hematochezia, blood dysentery, incessant flooding and spotting, cough with profuse phlegm, wind-damp impediment pain, erysipelas, epidemic parotitis, scalds, burns. Isolated compounds: 1030, 1764, 3241, 3242, 4376, 6333, 7751, 9543, 10656, 11358, 11594, 11596, 11598, 11600, 12062, 12455, 15170, 15184, 15664, 16366, 17422, 17423, 18317, 18411, 21350, 22492.
- T6441 *Thuja plicata* (Cupressaceae); BEI MEI XIANG BAI; Western Arborvitae. Isolated compounds: 17561, 21347, 21348.
- T6442 *Thuja standishii* (Cupressaceae); RI BEN XIANG BAI JING PI; Japanese Arborviate Stem-bark. Isolated compounds: 7764, 11358, 16367, 16368, 19236, 20465.
- T6443 *Thujaopsis dolabrata* (Cupressaceae); LUO HAN BAI; Broadleaf Arborvitae Hiba. Isolated compounds: 1372, 17876.
- T6444 *Thunbergia grandiflora* (Acanthaceae); DA HUA SHAN QIAN NIU; Bengal Clockvine. Used part: stem-leaf. TCM Effects: To resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Knocks and falls, fracture, sore and boil, snake bite. Isolated compounds: 1493.
- T6445 *Thunbergia laurifolia* (Acanthaceae); TAI GUO SHAN QIAN NIU; Thailand Clockvine (Raang-Chuet). Isolated compounds: 6927, 8733.
- T6446 *Thymra* spp. (Lamiaceae). Isolated compounds: 6162, 21709.
- T6447 *Thymus longiflorus* (Lamiaceae). Isolated compounds: 15440.
- T6448 *Thymus magnus* (Lamiaceae); CHAO XIAN DA BAI LI XIANG; Korean Big Thyme*. Isolated compounds: 3048, 3231, 4550, 20990, 21360.
- T6449 *Thymus piperella* (Lamiaceae). Isolated compounds: 6162.
- T6450 *Thymus quinquecostatus* (Lamiaceae); WU MAI BAI LI XIANG; Fiveribbed Thyme. Isolated compounds: 3048, 3231, 4550, 20990, 21360.
- T6451 *Thymus saturoide* (Lamiaceae); TA HUA BAI LI XIANG. Isolated compounds: 21709.
- T6452 *Thymus serpyllum* (Lamiaceae); BAI LI XIANG; Breckland Thyme. Isolated compounds: 1476, 20995, 21360.
- T6453 *Thymus* spp. (Lamiaceae). Isolated compounds: 22768.
- T6454 *Thymus vulgaris* (Lamiaceae); SHE XIANG CAO; Thyme. Used part: herb. TCM Effects: To suppress cough and dispel wind. TCM Indications: Pertussis, acute bronchitis, pharyngolaryngitis. Isolated compounds: 2550, 2555, 2887, 3231, 3241, 3242, 3683, 3741, 7522, 9528, 10268, 10269, 10270, 12420, 12850, 13745, 13746, 13749, 13755, 14509, 14510, 14597, 14598, 20992, 20995, 21344, 21360, 21362, 21365, 21366, 22467.
- T6455 *Tibouchina semidecandra* (Melastomataceae); Glory Bush. Isolated compounds: 15641, 15642, 17754.
- T6456 *Tilia alburnum* (Tiliaceae); BAI DUAN; White Linden*. Isolated compounds: 12018.
- T6457 *Tilia japonica* (Tiliaceae); HUA DONG DUAN; Japanese Linden. Used part: flower. TCM Effects: See *Tilia miqueliana*. TCM Indications: See *Tilia miqueliana*. Isolated compounds: 21391.
- T6458 *Tilia miqueliana* (Tiliaceae); PU TI SHU HUA; Miquel Linden. Equivalent plant: *Tilia japonica*. Used part: flower. TCM Effects: To settle tetany, calm, effuse sweat and abate fever. TCM Indications: Wind-cold common cold, headache and generalized pain, fright epilepsy. Isolated compounds: 7734.
- T6459 *Tilia* sp. (Tiliaceae). Isolated compounds: 5613.
- T6460 *Tilia* spp. (Tiliaceae). Isolated compounds: 17399, 21392.
- T6461 *Tilia vulgaris* (Tiliaceae); DUAN SHU; Common Lime. Isolated compounds: 20237.
- T6462 *Tinospora baenzigeri* (Menispermaceae). Isolated compounds: 2098, 2099, 2100.
- T6463 *Tinospora capillipes* (Menispermaceae); JIN GUO LAN; Hairystalk Tinospora. Used part: root. TCM Effects: See *Tinospora sagittata*. TCM Indications: See *Tinospora sagittata*. Isolated compounds: 3934, 3939, 16555.
- T6464 *Tinospora cordifolia* (Menispermaceae); XIN XING YE QING NIU DAN; Cardialeaf Tinospora*. Isolated compounds: 1084, 1085, 1086, 1087.
- T6465 *Tinospora craveniana* (Menispermaceae); JIANG XI QING NIU DAN; Jiangxi Tinospora*. Isolated compounds: 6680.
- T6466 *Tinospora hainanensis* (Menispermaceae); HAI NAN QING NIU DAN; Hainan Tinospora. Isolated compounds: 3747, 6219, 11851, 14748.
- T6467 *Tinospora sagittata* (Menispermaceae); QING NIU DAN; Arrowshaped Tinospora. Equivalent plant: *Tinospora capillipes*. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit throat, relieve pain. TCM Indications: Swelling pain in throat, welling abscess and flat abscess with clove sore, diarrhea, dysentery, heat pain in stomach duct and abdomen. Isolated compounds: 3939, 11338, 20321, 21398.
- T6468 *Tinospora sinensis* (Menispermaceae); ZHONG HUA QING NIU DAN; Chinese Tinospora*. Used part: stem. TCM Effects: To dispel wind and relieve pain, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls. Isolated compounds: 10949, 11480, 17419, 17922, 20669, 21399, 21400, 21401.
- T6469 *Tithonia diversifolia* (Asteraceae); ZHONG BIN JU; Yucatan Tithonia. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Acute gastroenteritis, toxin swelling of sores Isolated compounds: 175, 216, 240, 1438, 1439, 1440, 5898, 6064, 7204, 10769, 15926, 20609, 20610, 20611, 21410.
- T6470 *Tithonia tagiliflora* (Asteraceae); MO XI GE XIANG RI KUI; Mexican Sunflower. Isolated compounds: 16205, 20612.
- Toddalia aculeata* = *Toddalia asiatica*
- T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]

- (Rutaceae); FEI LONG ZHANG XUE; Asiatic Toddalia. Used part: root or root cortex. TCM Effects: To dispel wind and relieve pain, stanch bleeding and dissipate stasis. TCM Indications: Wind-damp Pain, stomachache, knocks and falls, blood ejection, spontaneous external bleeding, knife wound, amenorrhea, dysmenorrhea. Isolated compounds: 588, 3498, 3499, 3768, 5558, 6068, 6454, 7521, 11601, 14824, 16443, 17375, 18881, 20002, 21169, 21418, 21423, 21822, 21832.
- T6472 *Toddalia* spp. (Rutaceae). Isolated compounds: 3498.
- T6473 *Toddaliopsis bremekampii* (Rutaceae). Isolated compounds: 21419, 21420, 21421, 21422.
- T6474 *Toona ciliata* (Meliaceae); HONG CHUN; Burma Toon. Used part: root cortex. TCM Effects: To clear heat and dry damp, promote astriction, kill worms. TCM Indications: Chronic diarrhea, chronic dysentery, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, *gan* accumulation, ascariasis, sore and lichen. Isolated compounds: 290, 8316, 21446.
- T6475 *Toona sinensis* (Meliaceae); CHUN BAI PI; Chinese Toon Root-bast. Used part: bark or root cortex. TCM Effects: To eliminate heat and dry damp, astringe intestines and stanch bleeding, kill worms. TCM Indications: Chronic dysentery, chronic diarrhea, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, *gan* accumulation, ascariasis, sore and lichen. Isolated compounds: 21448.
- T6476 *Torilis japonica* (Apiaceae); HUA NAN HE SHI; Japanese Hedgeparsley. Used part: fruit or whole herb. TCM Effects: To kill worms, check diarrhea, contract damp and relieve itch. TCM Indications: Abdominal pain due to worm accumulation, diarrhea and dysentery, ulcerating sores, pudendal itch and vaginal discharge, wind-damp papules. Isolated compounds: 21456, 21457.
- T6477 *Torreya grandis* (Taxaceae); FEI SHU; Torreya*. Used part: branch-leaf. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp sore toxin. Isolated compounds: 5948, 21462, 21463, 21464.
- T6478 *Torreya jackii* (Taxaceae); CHANG YE FEI SHU; Jack Torreya. Used part: branch-leaf. TCM Effects: To lower blood pressure, anticancer. TCM Indications: Hypertension. Isolated compounds: 16649.
- T6479 *Torreya yunnanensis* (Taxaceae); YUN NAN FEI SHU; Yunnan Torreya. Isolated compounds: 1030, 2125, 7996, 9970, 13783, 17418, 17419, 19514, 20107, 21465.
- T6480 *Tournefortia sarmentosa* (Boraginaceae); ZI DAN TENG; Taiwan Tournefortia*. Isolated compounds: 11694, 12420, 12925, 19201, 19206, 21477, 21478, 21479, 21480.
Toxicadendron verniciflum = *Rhus verniciflora*
- T6481 *Toxicodendron radicans* (Anacardiaceae); DU QI TENG; Poison Ivy. Isolated compounds: 22274.
- T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*] (Anacardiaceae); LIN BEI ZI; Field Lacquertree. Used part: leaf. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin. TCM Indications: Hemoptysis, blood ejection, bleeding due to external injury, poisonous snake bite. Isolated compounds: 1030, 1497, 5613, 5614, 6535, 6719, 7802, 9376, 9383, 9386, 9543, 12428.
- T6483 *Trachelospermum asiaticum* (Apocynaceae); RI BEN LUO SHI; Japanese Star Jasmine*. Isolated compounds: 15806, 20433, 21493.
- T6484 *Trachelospermum jasminoides* (Apocynaceae); LUO SHI TENG; Chinese Star Jasmine. Used part: leafy stem. TCM Effects: To dispel wind and free network vessels, cool blood and disperse swelling. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, aching in lumbus and knees, throat impediment, swollen welling abscess, knocks and falls. Isolated compounds: 1490, 1497, 1623, 4615, 10937, 13144, 13145, 15807, 15808, 15809, 21491, 21492, 21493, 22597, 22602.
- T6485 *Trachycarpus fortunei* (Arecaceae); ZONG LV PI; Fortune Windmillpalm. Used part: petiole and fibre of sheath. TCM Effects: To promote contraction and stanch bleeding. TCM Indications: Blood ejection, spontaneous external bleeding, hematuria, hematochezia, flooding, bleeding due to external injury. Isolated compounds: 3308, 5763, 8095, 9818, 14699, 17968.
- T6486 *Trachycarpus wagnerianus* (Arecaceae); WA SHI ZONG LV; Wagner Windmill Palm. Isolated compounds: 18056.
- T6487 *Trachyrhamphus serratus* CU WEN HAI LONG. Isolated compounds: 5674.
- T6488 *Trachyspermum ammi* (Apiaceae); A YU WEI; Ajowan. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, resolve toxin and disinhibit damp. TCM Indications: Cold pain in stomach duct and abdomen, indigestion, vomiting nausea, diarrhea, cold mounting, dysmenorrhea, urethral stone, swelling pain of sore and boil. Isolated compounds: 21360.
- T6489 *Tragopogon porrifolius* (Asteraceae); SUAN YE PO LUO MEN SHEN; Salsify. Used part: root and leaf. TCM Effects: To fortify spleen and boost *qi*. TCM Indications: Weakness during convalescence, child *gan* accumulation, tinea capitis. Isolated compounds: 3175, 6108, 14723, 19562, 21357, 21500.
- T6490 *Tragopogon* sp. (Asteraceae). Isolated compounds: 2455, 20505.
- T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*] (Polyporaceae); HONG SHUAN JUN; Cinnabar-red. Equivalent plant: *Pycnoporus sanguineus*. Used part: sporocarp. TCM Effects: To resolve toxin and eliminate damp, stanch bleeding. TCM Indications: Dysentery, swelling pain in throat, knocks and falls, welling abscess and boil, itchy papules, bleeding due to external injury. Isolated compounds: 21501.
- T6492 *Trapa bispinosa* (Trapaceae); LING; Singharanut. Used part: pulp. TCM Effects: To clear summerheat heat, eliminate vexation and allay thirst, boost *qi* and fortify spleen, resolve toxin. TCM Indications: Spleen vacuity diarrhea, summerheat-heat vexation and thirst, diabetes mellitus, dysentery, drunkenness. Isolated compounds: 61, 5720, 7247, 19057.
- T6493 *Trattinickia rhoifolia*. Isolated compounds: 7494.
- T6494 *Trema dielsiana* (Ulmaceae); SHAN YOU MA; Diels Trema. Used part: leaf. TCM Effects: To relieve pain, stanch bleeding. TCM Indications: Boil. Isolated compounds: 9235.
- T6495 *Trewin nudiflora* (Euphorbiaceae); HUA TAO SHU. Isolated compounds: 5728.
- T6496 *Tribulus pentandrus* (Zygophyllaceae); WU XIONG RUI JI LI; Penta-androus Caltrap*. Isolated compounds: 16877, 16878, 16879, 16880, 16881, 16882, 16883.

- T6497 *Tribulus terrestris* (Zygophyllaceae); CI JI LI; Puncturevine Caltrap. Used part: fruit. TCM Effects: To dissipate wind and brighten eyes, precipitate *qi* and move blood. TCM Indications: Headache, itchy body, red eyes and eye screen, convulsion, fullness in chest, cough and counterflow, concretion and conglomeration, difficult lactation, welling abscess and flat abscess, scrofula. Isolated compounds: 5250, 6437, 7788, 8458, 8459, 8633, 8634, 8968, 9234, 9235, 15525, 17975, 19070, 20218, 21000, 21001, 21004, 21005, 21013, 21014, 21015, 21016, 21017, 21546, 21547, 21548.
- T6498 *Tribulus terrestris* (Zygophyllaceae); JI LI GEN; Puncturevine Caltrap Root. Used part: root. TCM Effects: To secure teeth. TCM Indications: Toothache. Isolated compounds: 3552, 8457, 9236, 19070.
- T6499 *Tribulus terrestris* (Zygophyllaceae); JI LI MIAO; Puncturevine Caltrap Shoot*. Used part: stem-leaf. TCM Effects: To dispel wind, eliminate damp, relieve itch, disperse welling abscess. TCM Indications: Summerheat-damp damage center, vomiting and diarrhea, nasal congestion and runny nose, wind papule itching of skin, scab and lichen, swollen welling abscess. Isolated compounds: 19087.
- T6500 *Trichilia prieuriana* (Meliaceae). Isolated compounds: 14924, 17852.
- T6501 *Trichocline reptans*. Isolated compounds: 418.
- T6502 *Trichocolea mollissima* (Trichocoleaceae); JI RUAN RONG TAI. Isolated compounds: 5922, 10255.
- T6503 *Trichoderma virida* LV SE MU MEI. Isolated compounds: 21559.
- T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*] (Tricholomataceae); SONG XUN; Pine Mushroom. Used part: sporocarp. TCM Effects: To soothe channels and quicken network vessels, rectify *qi* and transform phlegm, disinhibit damp and transform turbidity. TCM Indications: Pain in lumbus and legs, incessant urinary turbidity, numbness in limbs, hypertonicity of sinews and vessels, abundant phlegm and shortness of breath. Isolated compounds: 6900, 7250, 11532, 13608, 14245, 15983, 21106, 22558.
- T6505 *Tricholoma muscarium* (Tricholomataceae). Isolated compounds: 21562.
- T6506 *Tricholoma saponaceum* (Tricholomataceae); ZAO WEI KOU MO. Isolated compounds: 19321, 19322, 19323, 19324, 19325, 19326, 19327, 19328, 19329, 19330.
Trichomanes strigosa = *Microlepis strigosa*
- T6507 *Trichosanthes cucumeroides* (Cucurbitaceae); WANG GUA; Japanese Snakegourd. Used part: fruit. TCM Effects: To eliminate heat, engender liquid, dispel stasis, promote lactation. TCM Indications: Diabetes mellitus, jaundice, dysphagia-occlusion and stomach reflux, amenorrhea, scant breast milk, swollen welling abscess, chronic pharyngolaryngitis. Isolated compounds: 12018, 20168.
- T6508 *Trichosanthes cucumeroides* (Cucurbitaceae); WANG GUA ZI; Japanese Snakegourd Seed. Used part: seed. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Lung wilting, jaundice, dysentery, intestinal wind bleeding. Isolated compounds: 5352, 9069, 17425, 21576.
- T6509 *Trichosanthes hupehensis* (Cucurbitaceae); HU BEI GUA LOU; Hupeh Snakegourd. Isolated compounds: 2687.
- T6510 *Trichosanthes kirilowii* (Cucurbitaceae); GUA LOU; Mongolian Snakegourd. Equivalent plant: *Trichosanthes rosthornii*. Used part: fruit. TCM Effects: To clear heat and resolve phlegm, loosen chest and dissipate binds, moisten dryness and lubricate intestines. TCM Indications: Angina pectoris, lung heat cough, chest impediment, diabetes mellitus, acute mastitis, constipation, swelling toxin of welling abscess and sore. Isolated compounds: 1048, 2687, 3039, 3040, 3138, 4317, 9486, 12165, 12166, 12569, 12800, 12891, 12893, 15203, 15684, 16315, 16362, 16561, 16831, 19231, 19232, 19980, 20168, 20280, 20344, 20345, 20357, 20360, 20369, 21576, 22332.
- T6511 *Trichosanthes kirilowii* (Cucurbitaceae); GUA LOU ZI; Mongolian Snakegourd Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, lubricate intestines and free stool. TCM Indications: Phlegm-heat cough, lung vacuity dry cough, intestinal dry and constipation, swelling toxin of welling abscess and sore. Isolated compounds: 21576.
- T6512 *Trichosanthes kirilowii* (Cucurbitaceae); TIAN HUA FEN; Mongolian Snakegourd Root. Used part: root. TCM Effects: To clear heat and engender liquid, disperse swelling and expel pus. TCM Indications: Febrile diseases thirst, lung heat dry cough, diabetes mellitus due to internal heat, toxin swelling of sores, induce abortion. Isolated compounds: 1048, 2687, 3774, 9486, 10521, 12891, 12893, 20169, 20367.
- T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*] (Cucurbitaceae); SHUANG BIAN GUA LOU; Rosthorn Snakegourd. Used part: fruit. TCM Effects: See *Trichosanthes kirilowii*. TCM Indications: See *Trichosanthes kirilowii*. Isolated compounds: 3138, 3434, 9363, 9366, 9368, 12569, 12891, 12893, 13687, 14043, 14931, 14944, 15203, 15660, 15684, 16561, 16831, 20280, 20367, 20368, 21575, 21589.
- T6514 *Trichosanthes tricuspidata* (Cucurbitaceae); SAN YING JIAN GUA LOU; Tri-hard-tip Snakegourd*. Isolated compounds: 4325, 4326, 4539, 4540, 4541, 12208, 12209, 12210, 12211, 12212, 12213, 12214, 12215, 12216, 12217, 12218, 12219.
Trichosanthes uniflora = *Trichosanthes rosthornii*
- T6515 *Trichurus terrophilus* (imperfect fungi); MAO SHU MEI. Isolated compounds: 18549, 18550, 21579, 21580, 21581, 21582, 21583, 21584, 21585, 21586, 21587, 21588.
Tricomanes japonicum = *Onychium japonicum*
- T6516 *Trifolium alexandrinum* (Fabaceae); AI JI CHE ZHOU CAO; Egyptian Clover*. Isolated compounds: 21631, 21632, 21633.
- T6517 *Trifolium dubium* (Fabaceae); DUN YE CHE ZHOU CAO; Suckling Clover. Isolated compounds: 18643.
- T6518 *Trifolium fragiferum* (Fabaceae); CAO MEI CHE ZHOU CAO; Strawberry Clover. Isolated compounds: 4190.
- T6519 *Trifolium fruticosum* (Fabaceae); GUAN MU ZHUANG CHE ZHOU CAO; Shrubby Clover*. Isolated compounds: 9598.
- T6520 *Trifolium hybridum* (Fabaceae); ZA JIAO CHE ZHOU CAO; Hybrid Clover*. Isolated compounds: 6290.
- T6521 *Trifolium pratense* (Fabaceae); HONG CHE ZHOU CAO; Red Clover. Used part: flower and inflorescence. TCM Effects: To clear heat and relieve cough, dissipate binds and disperse swelling. TCM Indications: Common cold, cough and asthma, hard swelling, burns. Isolated compounds: 2384, 4135, 4604, 5440, 6201, 7852, 7853, 7853, 7883, 8011, 8278, 11158, 11648, 13282, 13638, 15484, 16756, 17765, 21634.
- T6522 *Trifolium repens* (Fabaceae); SAN XIAO CAO; White Clover. Used

- part: whole herb. TCM Effects: To clear heat, cool blood, quiet heart. TCM Indications: Epilepsy, bleeding from hemorrhoids, hard swelling. Isolated compounds: 4137, 4138, 4190, 4604, 8101, 9568, 12023, 12047, 13003, 15171, 15176, 18321, 18356, 20017, 21541, 21634.
- T6523 *Trifolium resupinatum* (Fabaceae). Isolated compounds: 18703.
- T6524 *Trifolium* spp. (Fabaceae). Isolated compounds: 3004.
- T6525 *Trifolium subterraneum* (Fabaceae); DI XIA CHE ZHOU CAO; Subterranean Clover. Isolated compounds: 2384, 2845, 7883, 8309, 9598.
- T6526 *Triglochin maritimum* (Juncaginaceae); HAI JIU CAI; Shore Podgrass. Used part: whole herb. TCM Effects: To clear heat and engender liquid, resolve toxin and disinhibit damp. TCM Indications: Exuberant heat fluid damage, stomach heat vexation thirst, dribbling pain of urination. Isolated compounds: 7419, 9717, 17425, 20805, 21644.
- T6527 *Trigonella caerulea* (Fabaceae); LAN HU LU BA; Blue Trigonella. Used part: seed. TCM Effects: To supplement kidney and disinhibit water, rectify *qi* and relieve pain. TCM Indications: Kidney vacuity lumbago, edema, spasmodic abdominal pain of gastrointestinal tract, mounting *qi* (hernia), painful swollen testes. Isolated compounds: 18281.
- T6528 *Trigonella foenum-graecum* (Fabaceae); HU LU BA; Common Fenugreek. Used part: seed. TCM Effects: To lower cholesterol, warm kidney, dispel cold, relieve pain. TCM Indications: Hyperlipemia, kidney vacuity cold, cold pain in lesser-abdomen, mounting *qi*, beriberi. Isolated compounds: 1673, 3218, 6440, 6444, 6449, 8095, 8297, 8457, 8969, 8970, 9569, 9616, 12063, 12064, 12832, 15279, 16196, 18370, 19473, 19542, 20207, 20208, 21383, 21589, 21590, 21645, 21646, 21647, 21648, 21649, 21650, 21651, 21652, 21653, 21654, 21655, 21656, 21657, 21658, 21659, 21660, 21661, 21662, 21663, 21664, 21665, 21666, 21667, 21668, 21669, 21670, 21671, 21672, 21673, 21674, 21675, 21676, 21677, 21678, 22464, 22554, 22581, 22582, 22878, 22936.
- T6529 *Trigonella* sp. (Fabaceae). Isolated compounds: 6437, 6440, 13638.
- T6530 *Trigonostemon reidioides* (Euphorbiaceae). Isolated compounds: 18563, 18564, 18565, 18566, 18567.
- T6531 *Trillium camtschaticum* (Liliaceae); YU ER QI; Whiteflower Trillium. Equivalent plant: YAN LING CAO. Used part: rhizome. TCM Effects: To dispel wind and soothe liver, quicken blood and stanch bleeding. TCM Indications: Hypertension, dizziness and headache, pain in lumbus and legs, bleeding due to external injury, knocks and falls, fracture. Isolated compounds: 2324, 4280, 4455, 5040, 16809, 21876.
- T6532 *Trillium erectum* (Liliaceae); HE HUA YAN LING CAO; Brownflower Trillium. Isolated compounds: 16809, 21871.
- T6533 *Trillium kamschaticum* (Liliaceae); JI LIN YAN LING CAO; Whiteflower Trillium*. Used part: rhizome. TCM Effects: See *Trillium tschonoskii*. TCM Indications: See *Trillium tschonoskii*. Isolated compounds: 5217, 5218, 21872, 21873, 21874, 21875.
- T6534 *Trillium* sp. (Liliaceae). Isolated compounds: 6440.
- T6535 *Trillium tschonoskii* (Liliaceae); YAN LING CAO; Tschonosk Trillium. Equivalent plant: *Trillium kamschaticum*. Used part: rhizome. TCM Effects: To calm, relieve pain, quicken blood, stanch bleeding. TCM Indications: Hypertension, neurasthenia, dizziness and headache, pain in lumbus and legs, menstrual disorder [=menoxenia], flooding and spotting [=metrorrhagia and metrostaxis], bleeding due to external injury, knocks and falls. Isolated compounds: 3546, 4455, 6443, 6679, 21871.
- T6536 *Triphyophyllum peltatum* (Dioncophyllaceae); SAN YE MU; Trileaf Wood*. Isolated compounds: 6433, 6896, 14325, 14396.
- T6537 *Tripterospermum japonicum* (Gentianaceae); RI BEN SHUANG HU DIE; Japanese Dualbutterfly*. Used part: whole herb. TCM Effects: See *Tripterospermum taiwanense*. TCM Indications: See *Tripterospermum taiwanense*. Isolated compounds: 493, 494, 8685, 9616, 11773, 12949, 14982, 18729, 20503, 21989, 22836.
- T6538 *Tripterospermum taiwanense* (Gentianaceae); TAI WAN SHUANG HU DIE; Taiwan Dualbutterfly. Equivalent plant: *Tripterospermum japonicum*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough. TCM Indications: Jaundice, wind-heat cough. Isolated compounds: 21991.
- T6539 *Tripterygium doianum* (Celastraceae); NAN RI BEN LEI GONG TENG; South-Japan Threewingnut*. Isolated compounds: 130, 301, 334, 3562, 21408.
- T6540 *Tripterygium hypoglaucum* (Celastraceae); KUN MING SHAN HAI TANG; Glaucousback Threewingnut. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and stanch bleeding, soothe sinews and joint bones, resolve toxin and kill worms. TCM Indications: Rheumatic arthritis, wind-damp impediment pain, hemiplegia, mounting *qi*, dysmenorrhea, profuse menstruation, postpartum abdominal pain, incessant bleeding, acute infectious hepatitis, chronic nephritis, erythematous lupus, fracture, medullitis, bone tuberculosis, epididymis tubercle, sore toxin, psoriasis, neurodermatitis. Isolated compounds: 27, 266, 3308, 6921, 8100, 10892, 10897, 10899, 10906, 10907, 10908, 16403, 17886, 17892, 18578, 21987, 21993, 22011, 22013, 22014, 22017, 22023, 22680, 22695.
- T6541 *Tripterygium regelii* (Celastraceae); HEI MAN; Regel Threewingnut. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, disinhibit water and disperse edema, resolve toxin and kill worms. TCM Indications: Rheumatoid arthritis, jaundice, glomus accumulation, knocks and falls, scrofula, toxin swelling of sores, tinea capitis, itchy skin, poisonous snake bite. Isolated compounds: 27, 3368, 10899, 16245, 18576, 18577, 18578, 18579, 18580, 18581, 18582, 18583.
- T6542 *Tripterygium wilfordii* (Celastraceae); LEI GONG TENG; Common Threewingnut. Used part: root, leaf and flower. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, disperse swelling and relieve pain, resolve toxin and kill worms (high toxicity). TCM Indications: Rheumatoid arthritis, rheumatic arthritis, glomerulonephritis, nephropathy syndrome, erythematous lupus, dryness in eyes and mouth, Behcet's syndrome, psoriasis, eczema, leprosy, scab sore, intractable lichen. Isolated compounds: 27, 30, 1465, 3075, 3356, 3357, 3358, 3360, 3368, 4873, 5144, 5914, 6468, 6632, 6940, 7029, 7045, 7534, 8023, 8024, 9367, 10086, 10566, 10776, 10814, 10815, 10816, 10817, 10899, 10900, 11561, 11781, 13640, 15468, 15476, 15538, 15635, 16245, 16675, 18580, 19182, 20556, 21023, 21395, 21512, 21521, 21986, 21987, 21988, 21990, 21992, 21993, 21994, 21995, 21996, 21997, 21998,

- 21999, 22000, 22001, 22002, 22003, 22004, 22005, 22006, 22007, 22008, 22009, 22010, 22011, 22012, 22013, 22015, 22016, 22017, 22018, 22019, 22020, 22021, 22022, 22023, 22024, 22025, 22026, 22027, 22263, 22674, 22675, 22676, 22677, 22678, 22679, 22680, 22681, 22682, 22683, 22684, 22685, 22686, 22687, 22688, 22689, 22690, 22695.
- T6543 *Tristanopsis calobuxus* (Myrtaceae). Isolated compounds: 6757, 21926.
- T6544 *Triticum aestivum* [Syn. *Triticum vulgare*] (Poaceae); XIAO MAI; Wheat. Used part: seed. TCM Effects: To nourish heart, boost kidney, eliminate heat, allay thirst. TCM Indications: Visceral agitation, heat vexation, diabetes mellitus, diarrhea, swollen welling abscess, bleeding due to external injury, scalds. Isolated compounds: 917, 2455, 6204, 19983, 21415.
- T6545 *Triticum monococcum* (Poaceae); DAN LI XIAO MAI; Einkorn. Isolated compounds: 13003.
- T6546 *Triticum* sp. (Poaceae). Isolated compounds: 13003.
Triticum vulgare = *Triticum aestivum*
- T6547 *Tritomaria polita*; Liverwort *Tritomaria polita*. Isolated compounds: 7095, 7150, 7491, 7496, 7497, 9499, 10110, 10112, 10113, 19613.
- T6548 *Tritonia crocosmaeflora* (Iridaceae); XIONG HUANG LAN; Common Tritonia. Used part: corm. TCM Effects: To resolve toxin, disperse swelling, relieve pain. TCM Indications: Tympanites, pain in stomach duct, pain in sinews and bones, epidemic parotitis, sores, painful wound from knocks and falls, bleeding due to external injury. Isolated compounds: 21597.
- T6549 *Trochodendron aralioides* (Trochodendraceae); KUN LAN SHU; Wheelstamentree. Isolated compounds: 5283.
- T6550 *Trocholejeunea sandvicensis* (Lejeuneaceae); YE TAI. Isolated compounds: 1990, 4960, 5487, 8022, 10024, 12609, 12610, 14375, 17721, 19250, 21629.
- T6551 *Trogopterus xanthipes*; *Pteromys volans* (Petauristidae); WU LING ZHI; Trogopterus Dung. Used part: dried feces. TCM Effects: To quicken blood and relieve pain, transform stasis and stanch bleeding, disperse accumulation and resolve toxin. TCM Indications: Amenorrhea, postpartum blood stasis abdominal pain, flooding, profuse menstruation, incessant red and white vaginal discharge, snake bite, scorpion sting, centipede bite. Isolated compounds: 2413, 6178, 11810, 17696, 21752, 22246, 22739.
Trollius asiaticus var. *chinensis* = *Trollius chinensis*
- T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*] (Ranunculaceae); JIN LIAN HUA; Chinese Globeflower. Equivalent plant: *Trollius ledebourii*. Used part: flower. TCM Effects: To clear heat and resolve toxin, disperse swelling, brighten eyes. TCM Indications: Common cold with fever, swelling pain in throat, mouth sore, gum swelling and pain, gum hemorrhage, red eyes with gall, swelling toxin of clove sore, acute periostitis, acute lymphangitis. Isolated compounds: 6201, 16196, 22581.
- T6553 *Trollius ledebourii* (Ranunculaceae); DUAN BAN JIN LIAN HUA; Ledebour Globeflower. Used part: flower. TCM Effects: See *Trollius chinensis*. TCM Indications: See *Trollius chinensis*. Isolated compounds: 6207, 6208, 7783, 8066, 8072, 11724, 14193, 14194, 14196, 14203, 22345.
- T6554 *Trollius macropetalus* (Ranunculaceae); CHANG BAN JIN LIAN HUA; Langpetal Globeflower. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Infection of upper respiratory tract, acute or chronic tonsillitis, acute conjunctivitis, acute otitis media, acute lymphangitis, acute dysentery, acute appendicitis. Isolated compounds: 6201, 16196, 17902, 22581.
- T6555 *Tropaeolum majus* (Tropaeolaceae); HAN LIAN HUA; Common Nasturtium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Sore toxin, red eyes with gall, malign sore. Isolated compounds: 1358, 2294, 2298, 3211, 7291, 8760, 17102.
- T6556 *Tsoongiodendron odorum* (Magnoliaceae); GUAN GUANG MU; Guanguangtree. Isolated compounds: 6027, 12917.
- T6557 *Tsuga dumosa* (Pinaceae); YUN NAN TIE SHAN; Yunnan Hemlock. Isolated compounds: 5871, 6635.
- T6558 *Tsuga heterophylla* (Pinaceae); YI YE TIE SHAN; Western Hemlock. Isolated compounds: 7768, 10574, 12520, 13594, 17409, 19618.
- T6559 *Tuber indicum* YIN DU KUAI JUN; Indian Truffle. Isolated compounds: 22053, 22054, 22055, 22056.
- T6560 *Tulipa edulis* (Liliaceae); GUANG CI GU; Edible Tulip. Used part: bulb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Swelling pain in throat, scrofula, welling abscess and flat abscess, swelling of sores, postpartum stasis stagnation. Isolated compounds: 3911.
- T6561 *Tulipa gesneriana* (Liliaceae); YU JIN XIANG; Common Tulip. Used part: flower. TCM Effects: To transform damp and repel foulness. TCM Indications: Spleen-stomach damp turbidity, fullness and oppression in chest and stomach duct, retching counterflow and abdominal pain, bad breath and slimy tongue fur. Isolated compounds: 4451, 8371, 15664, 19187, 22102, 22104, 22105.
- T6562 *Tulipa gesneriana* (Liliaceae); YU JIN XIANG GEN; Common Tulip Root. Used part: root. TCM Effects: To calm. TCM Indications: Visceral agitation. Isolated compounds: 8371, 8373, 8374, 8375, 8376.
- T6563 *Tulipa hybrida* (Liliaceae); YU JIN XIANG ZA JIAO ZHONG; Tulip Hybrid*. Isolated compounds: 22104, 22105.
- T6564 *Tulipa* sp. (Liliaceae). Isolated compounds: 7821.
- T6565 *Tulipa turkestanii* (Liliaceae); TU ER QI YU JIN XIANG; Turkey Tulip*. Isolated compounds: 22106, 22107.
- T6566 *Tupistra chinensis* (Liliaceae); KAI KOU JIAN; Chinese Tupistra. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Diphtheria, swelling pain in throat, wind-damp impediment pain, knocks and falls, stomachache, swollen welling abscess and sore toxin, poisonous snake bites, rabid dog bite. Isolated compounds: 955, 6974, 7009, 9815, 10381, 14254, 14652, 16891, 19983, 19987, 20369, 20556, 20566, 22111, 22112, 22113, 22114, 22115, 22116, 22117, 22332, 22336.
- T6567 *Tupistra wattii* [Syn. *Campylandra wattii*] (Liliaceae); WAN RUI KAI KOU JIAN; Watt Tupistra. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate stasis and stanch bleeding, disperse swelling and relieve pain. TCM Indications: Wind-heat common cold, cough and sore pharynx, tonsillitis, lymphoditis, fracture due to knocks and falls, stomachache blood ejection, bleeding due to external injury. Isolated compounds: 21845, 22649, 22650, 22651, 22652,

- 22653, 22654, 22655.
- T6568 *Turpinia ternata* (Staphyleaceae); SAN CHU SHAN XIANG YUAN; Threelobed Turpinia. Isolated compounds: 22125, 22126, 22127, 22128, 22129.
- T6569 *Turraea floribunda* (Meliaceae); DUO HUA U LIAN; Manyflower Starbush*. Isolated compounds: 22130, 22131, 22132, 22133, 22134, 22135, 22136, 22137.
- T6570 *Turraea nilotica* (Meliaceae); NI LUO HE JIN YIN LIAN; Nile Starbush*. Isolated compounds: 15598, 17480.
- T6571 *Turraea parvifolia* (Meliaceae); XIAO YE DU LIAN; Littleleaf Starbush*. Isolated compounds: 128, 6935, 6936, 22138, 22139, 22140, 22141.
- T6572 *Turraea wakefieldii* (Meliaceae). Isolated compounds: 5291, 5298, 5299, 5311, 5316, 20895.
- T6573 *Turreanthus africanus* (Meliaceae). Isolated compounds: 185, 6890, 7160.
- T6574 *Tussilago farfara* (Asteraceae); KUAN DONG HUA; Common Coltsfoot. Used part: flower bud. TCM Effects: To moisten lung and precipitate *qi*, relieve cough and transform phlegm. TCM Indications: Cough, cough and asthma with abundant phlegm, consumption cough and hemoptysis, chronic bronchitis, infection of upper respiratory tract, tuberculosis. Isolated compounds: 122, 2169, 3214, 4287, 4841, 7058, 7715, 7716, 8095, 10265, 10887, 13127, 14187, 14188, 15470, 19087, 19731, 20136, 22143, 22144, 22222.
- T6575 *Tylimanthus renifolius* (Acrobolbaceae); Liverwort *Tylimanthus renifolius*. Isolated compounds: 209, 9425, 9427, 17255, 18914.
- T6576 *Tylimanthus tenellus* (Acrobolbaceae); New Zealand liverwort *Tylimanthus tenellus*. Isolated compounds: 9663, 9666, 10579.
- T6577 *Tylophora asthmatica* [Syn. *Tylophora indica*] (Asclepiadaceae); YIN DU WA ER TENG; Indian Tylophora*. Isolated compounds: 22151, 22152, 22153.
- T6578 *Tylophora atrofolliculata* (Asclepiadaceae); SAN FEN DAN; Brackfollicle. Used part: root. TCM Effects: To dispel wind, quicken blood, relieve pain. TCM Indications: Wind-damp pain, painful swelling from knocks and falls. Isolated compounds: 22147, 22148, 22149, 22150, 22152, 22153.
- T6579 *Tylophora crebriflora* (Asclepiadaceae); MI HUA WA ER TENG; Denseflower Tylophora*. Isolated compounds: 22146, 22151, 22153.
- T6580 *Tylophora floribunda* (Asclepiadaceae); WA ER TENG; Manyflower Tylophora. Used part: root. TCM Effects: To dispel wind and transform phlegm, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Infant fright wind, wind-damp impediment pain, cough and asthma with abundant phlegm, diphtheria, knocks and falls, fracture, poisonous snake bite, swollen welling abscess, sore and boil, red eyes, stomatitis, liver spleen enlargement. Isolated compounds: 22146, 22151, 22153.
- Tylophora indica* = *Tylophora asthmatica*
- T6581 *Tylophora mollissima* (Asclepiadaceae); MIAN MAO WA ER TENG; Woolly Tylophora. Used part: whole plant. TCM Effects: To clear lung heat, relieve cough and asthma. TCM Indications: Common cold with fever, lung heat cough, asthma. Isolated compounds: 22152, 22153.
- T6582 *Tylophora ovata* (Asclepiadaceae); LUAN YE WA ER TENG; Ovateleaf Tylophora. Equivalent plant: *Gerbera piloselloides*, *Cynanchum versicolor*, *Cynanchum atratum*, *Cynanchum ascyrifolium*. Used part: root. TCM Effects: To clear heat and boost *yin*, disinhibit urine and free strangury, resolve toxin and cure sores. TCM Indications: Warm heat disease with fever, generalized fever with macule, steaming bone tidal fever, lung heat cough, postpartum vacuity vexation, heat strangury, blood strangury, swelling pain in throat, swelling toxin of sore and welling abscess, poisonous snake bite. Isolated compounds: 22152, 22153.
- T6583 *Tylorella* sp. Isolated compounds: 21359.
- T6584 *Typha angustata* (Typhaceae); PU HUANG; Longbract Cattail Pollen. Equivalent plant: *Typha angustifolia*, *Typha latifolia*. Used part: pollen. TCM Effects: To lower cholesterol, cool blood and stanch bleeding, quicken blood and dispel stasis. TCM Indications: Hyperlipemia, angina pectoris, exudative eczema, bleeding, hemoptysis, spontaneous external bleeding, blood ejection, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, pain in heart and abdomen, dysmenorrhea, postpartum bleeding, postpartum abdominal pain, blood strangury with inhibited pain. Isolated compounds: 1599, 5763, 9364, 9486, 9815, 10636, 11648, 11662, 12071, 13479, 13504, 15661, 15662, 15663, 16822, 18317, 18378, 19087, 19983, 19998, 20280, 20355, 20444, 22154, 22157.
- T6585 *Typha angustifolia* (Typhaceae); XIA YE XIANG PU; Narrowleaf Cattail Pollen. Used part: pollen. TCM Effects: See *Typha angustata*. TCM Indications: See *Typha angustata*. Isolated compounds: 11648, 12020, 14611, 14628, 14769, 15279, 16822, 16893, 18317, 18378, 18739, 19983, 19998, 22043, 22154, 22843.
- T6586 *Typha capensis* (Typhaceae); HAO WANG JIAO XIANG PU; Cape-of-Good-Hope Cattail. Isolated compounds: 22155, 22156.
- T6587 *Typha latifolia* (Typhaceae); KUAN YE XIANG PU; Broadleaf Cattail Pollen. Used part: pollen. TCM Effects: See *Typha angustata*. TCM Indications: See *Typha angustata*. Isolated compounds: 3766, 7882, 10967, 11648, 11662, 11669, 12071, 12436, 13419, 13479, 18281, 18317, 20444, 22118, 22154.
- T6588 *Typhonium giganteum* (Araceae); YU BAI FU; Giant Typhonium. Used part: tuberoid. TCM Effects: To dispel wind and transform phlegm, free channels and network vessels, resolve toxin and settle pain. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, migraine, tetanus, poisonous snake bite, scrofula, swollen welling abscess. Isolated compounds: 11083, 11084, 11085, 19987.
- T6589 *Tyromyces fissilis* (Polyporaceae); YI LYE GAN LAO JUN; Easy-lobed Tyromyces*. Isolated compounds: 21502, 22162, 22163, 22164, 22165, 22166, 22167, 22168.

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- T6590 *Ulex europaeus* (Fabaceae); JING DOU; Common Gorse. Isolated compounds: 4594.
- T6591 *Ulex minor* (Fabaceae); XIAO JING DOU; Small Gorse*. Isolated compounds: 11514.
- T6592 *Ulex nanus* (Fabaceae); AI JING DOU; Dwarf Gorse. Isolated compounds: 8282.
- T6593 *Ulex* sp. (Fabaceae). Isolated compounds: 3209.
- T6594 *Ulmus americana* (Ulmaceae); MEI ZHOU YU; American Elm. Isolated compounds: 3317.

- T6595 *Ulmus glabra* (Ulmaceae); SHAN YU; Wych Elm. Isolated compounds: 13513.
- T6596 *Ulmus parvifolia* (Ulmaceae); LANG YU PI; Chinese Elm Bark. Used part: bark. TCM Effects: To disinhibit water and free strangury, eliminate welling abscess. Isolated compounds: 9868, 12431, 13513, 13515, 13517, 13951, 20369.
- T6597 *Ulmus pumila* (Ulmaceae); YU SHU; Siberian Elm. Used part: branch. TCM Effects: To disinhibit urine and free strangury. TCM Indications: *Qi* strangury. Isolated compounds: 20369.
- T6598 *Ulva conglobata* (Ulvaceae); LI CAI; Conglobate Ulva Frond*. Used part: frond. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Thyroid enlargement, summerheat stroke, edema, inhibited urination. Isolated compounds: 14326.
- T6599 *Ulva lactuca* (Ulvaceae); SHI CHUN; Lettuce Ulva Frond. Equivalent plant: *Ulva lactuca*. Used part: frond. TCM Effects: To disinhibit water and disperse edema, transform phlegm and soften hardness, clear heat and resolve toxin. TCM Indications: Edema, goiter and carcinoma of neck, hypertension, laryngitis, sore and boil, acute enteritis, chronic enteritis, *gan* accumulation. Isolated compounds: 3849, 4473, 6400, 11431, 12445, 14352.
- T6600 *Ulva pertusa* (Ulvaceae); KONG SHI CHUN; Pertusate Ulva Frond. Used part: frond. TCM Effects: See *Ulva lactuca*. TCM Indications: See *Ulva lactuca*. Isolated compounds: 578, 1282, 2222, 3693, 3767, 4473, 4550, 7521, 8011, 9374, 9384, 9491, 11431, 11767, 16345, 16563, 16568, 16884, 20998, 22336, 22556.
- T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*] (Umbilicariaceae); SHI ER; Rock-Ears*. Used part: lichen. TCM Effects: To nourish *yin* and moisten lung, cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung vacuity taxation cough, blood ejection, spontaneous external bleeding, flooding and spotting [=metrorrhagia and metrostaxis], intestinal wind bleeding, hemorrhoids and fistulas, prolapse of rectum, strangury-turbidity, vaginal discharge, poisonous snake bites, scalds, knife wound. Isolated compounds: 12598.
- T6602 *Umbilicaria hypococcinea* (Umbilicariaceae); HONG SHI ER; Red-Rock-Ears. Used part: lichen. TCM Effects: To rectify *qi* and promote digestion, disinhibit water and disperse distention. TCM Indications: Indigestion, distending pain in stomach duct, dysentery, *gan* accumulation. Isolated compounds: 2443, 14637, 14639, 16218.
- T6603 *Umbilicaria proboscidea* (Umbilicariaceae); WU LA ER DI YI; Ural's Lichen. Isolated compounds: 22197, 22198.
- T6604 *Uncaria acida* (Rubiaceae); SUAN GOU TENG; Acid Gambirplant*. Isolated compounds: 4118, 9234, 11679, 18826.
- T6605 *Uncaria africana* (Rubiaceae); FEI ZHOU GOU TENG; African Gambirplant*. Isolated compounds: 783, 5569, 11539, 11679, 14889, 18826.
- T6606 *Uncaria attenuata* (Rubiaceae); XIA GOU TENG; Narrow Gambirplant*. Isolated compounds: 906, 907, 4118, 4119, 4120, 5569, 9234, 9552, 9553, 11347, 11679, 14889, 16353, 18553, 18826, 18943, 19176, 22204, 22206.
- T6607 *Uncaria barbata* (Rubiaceae). Isolated compounds: 9234.
- T6608 *Uncaria bernaysii* (Rubiaceae). Isolated compounds: 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6609 *Uncaria borneensis* (Rubiaceae); PO LUO ZHOU GOU TENG; Borneo Gambirplant*. Isolated compounds: 4118, 9234, 11347, 11679, 18826.
- T6610 *Uncaria callophylla* (Rubiaceae); HOU YE GOU TENG; Thickleaf Gambirplant*. Isolated compounds: 2981, 2982, 5569, 8125, 8127, 9234, 11432, 11539, 11679, 14889, 18826, 18943.
- T6611 *Uncaria canescens* (Rubiaceae); QIAN HUI GOU TENG; Greyish Gambirplant*. Isolated compounds: 9234.
- T6612 *Uncaria cordata* (Rubiaceae); XIN XING GOU TENG; Cordate Gambirplant*. Isolated compounds: 4119, 4120, 5569, 11679, 18826.
- T6613 *Uncaria donisii* (Rubiaceae). Isolated compounds: 11636, 18114, 22206, 22207.
- T6614 *Uncaria elliptica* (Rubiaceae); TUO YUAN GOU TENG; Elliptic Gambirplant*. Isolated compounds: 783, 826, 5569, 6191, 6853, 9234, 10264, 11539, 11644, 11679, 14889, 18441, 18553, 18554, 18555, 18826, 18943, 18969, 19087, 21862, 21863, 22204.
- T6615 *Uncaria gambir* (Rubiaceae); ER CHA GOU TENG; Gambier Gambirplant. Used part: dry decocted paste of branch-leaf. TCM Effects: To contract damp and close sores, stanch bleeding and settle pain, clear heat and resolve phlegm. TCM Indications: Enduring sores, damp-sore with flowing water, *gan* of teeth and gum, mouth sore, hemoptysis, blood ejection, hematuria, hematochezia, flooding, bleeding due to external injury, hemorrhoids and swollen welling abscess, phlegm-heat cough. Isolated compounds: 3308, 3318, 6853, 8095, 8126, 8127, 14889, 18943, 18968, 22204.
- T6616 *Uncaria guianensis* (Rubiaceae); GUI YA NA GOU TENG; Garabato; Unganangi; Cat's Claw. Isolated compounds: 5569, 9552, 9553, 11539, 11679, 11636, 14889, 18114, 18428, 18432, 18439, 18826, 22206.
- T6617 *Uncaria hirsuta* (Rubiaceae); MAO GOU TENG; Hirsute Gambirplant*. Isolated compounds: 10887, 11539, 14889, 18826, 19087, 22204.
- T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*] (Rubiaceae); BEI YUE GOU TENG; North Viet-Nam Gambirplant. Used part: root. TCM Effects: To dispel wind and free network vessels, calm liver and extinguish wind. TCM Indications: Rheumatic arthritis, sciatica, knocks and falls, fracture, bleeding due to external injury, hypertension, hemiparesis [= hemilateral headache], infant fright wind, prolapse of rectum. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6619 *Uncaria kawakamii* (Rubiaceae); CHUAN SHANG LONG MI GOU TENG; Kawakami Gambirplant*. Isolated compounds: 14889.
- T6620 *Uncaria kunstleri* (Rubiaceae). Isolated compounds: 4119, 4120, 9553, 11679, 18826.
- T6621 *Uncaria laevigata* (Rubiaceae); PING HUA FA LIANG GOU TENG; Smooth Gambirplant. Isolated compounds: 11539, 11636, 14889, 22204, 22206.
- T6622 *Uncaria lancifolia* (Rubiaceae); PI ZHEN YE GOU TENG; Lance-leaved Gambirplant. Isolated compounds: 11539, 14889, 18826.
- T6623 *Uncaria lanosa* (Rubiaceae); MIAN MAO GOU TENG; Woolly Gambirplant*. Isolated compounds: 3308, 7833, 8488, 9234, 11347, 11539, 11636, 14889, 18114, 18553, 21863, 22206, 22207.
- T6624 *Uncaria longiflora* (Rubiaceae); CHANG HUA GOU TENG; Longflower Gambirplant*. Isolated compounds: 4118, 5569, 6191,

- 8125, 8488, 11347, 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6625 *Uncaria macrophylla* (Rubiaceae); DA YE GOU TENG; Largeleaf Gambirplant. Used part: hooked stem-branch. TCM Effects: See *Uncaria rhynchophylla*. TCM Indications: See *Uncaria rhynchophylla*. Isolated compounds: 4119, 4120, 11679, 11680, 18826.
- T6626 *Uncaria nervosa* (Rubiaceae); DUO MAI GOU TENG; Many-veined Gambirplant*. Isolated compounds: 5569, 9234, 9552, 9553.
- T6627 *Uncaria orientalis* (Rubiaceae); DONG FANG GOU TENG; Oriental Gambirplant*. Isolated compounds: 783, 9234, 11539, 11636, 14889, 18114, 22204, 22206, 22207.
- T6628 *Uncaria perrottetii* (Rubiaceae). Isolated compounds: 11539, 14889, 18114, 22206, 22207.
Uncaria pilosa = *Uncaria scandens*
- T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*] (Rubiaceae); GOU TENG; Sharpleaf Gambirplant. Equivalent plant: *Uncaria sinensis*, *Uncaria macrophylla*. Used part: hooked stem-branch. TCM Effects: To extinguish wind and check tetany, clear heat and calm liver. TCM Indications: Infant fright wind and night crying, exuberant heat stirring wind, epilepsy of pregnancy, liver yang dizziness, liver fire headache. Isolated compounds: 823, 1244, 1252, 2844, 3680, 3681, 4114, 4118, 5550, 5569, 6853, 8251, 9234, 9552, 9553, 10887, 11347, 11377, 11636, 11679, 11680, 14455, 18114, 18824, 18826, 20390, 21634, 22208, 22209, 22210, 22211, 22212, 22328, 22496.
- T6630 *Uncaria roxburghiana* (Rubiaceae). Isolated compounds: 11636, 18114, 22206, 22207.
- T6631 *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*] (Rubiaceae); PAN ZHI GOU TENG; Climbing Gambirplant. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6632 *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*] (Rubiaceae); BAI GOU TENG; White Gambirplant. Isolated compounds: 4119, 4120, 9553, 11539, 11679, 14889, 18826, 22204, 22207.
- T6633 *Uncaria sinensis* (Rubiaceae); HUA GOU TENG; Chinese Gambirplant. Used part: hooked stem-branch. TCM Effects: See *Uncaria rhynchophylla*. TCM Indications: See *Uncaria rhynchophylla*. Isolated compounds: 2887, 4118, 5550, 9552, 9553, 11347, 11377, 11426, 11537, 11538, 11635, 11636, 11678, 11679, 11680, 14887, 14888, 17876, 18113, 18114, 18825, 18826, 18827, 19542, 22206, 22207.
- T6634 *Uncaria sterrophylla* (Rubiaceae). Isolated compounds: 4119, 4120, 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6635 *Uncaria talbotii* (Rubiaceae). Isolated compounds: 11679, 18826.
- T6636 *Uncaria thwaitesii* (Rubiaceae). Isolated compounds: 6191, 21862.
- T6637 *Uncaria tomentosa* (Rubiaceae); BI LU GOU TENG; Uña de Gato (Cat's Claw). Isolated compounds: 3677, 3678, 3679, 3680, 3681, 5190, 6069, 6071, 6853, 9552, 9553, 11539, 11636, 11679, 13971, 14889, 15747, 16323, 16357, 18114, 18428, 18429, 18430, 18431, 18432, 18433, 18434, 18435, 18436, 18440, 18442, 18824, 18826, 18943, 21441, 21442, 21828, 21833, 21863, 22205, 22206, 22270.
- T6638 *Uncaria velutina* (Rubiaceae); DUAN RONG MAO GOU TENG; Velutinous Gambirplant*. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6639 *Uncaria yunnanensis* (Rubiaceae); DIAN GOU TENG; Yunnan Gambirplant. Isolated compounds: 5357.
- T6640 *Undaria pinnatifida* (Alariaceae); QUN DAI CAI; Undaria. Used part: dried thallus. TCM Effects: See *Laminaria japonica*. TCM Indications: See *Laminaria japonica*. Isolated compounds: 935, 7951, 7978, 11123, 11508, 12952, 14618, 15784, 16153, 17265, 19367, 21330, 22556.
- T6641 *Ungernia minor* (Amaryllidaceae); XIAO BO SI SHI SUAN; Small Ungernia*. Isolated compounds: 22232.
- T6642 *Ungernia trisphaera* (Amaryllidaceae); SAN QIU BO SI SHI SUAN; Trisphaera Ungernia*. Isolated compounds: 22040.
- T6643 Unsteadiness mould's metabolite. Isolated compounds: 15571.
- T6644 *Upuna borneensis* (Dipterocarpaceae). Isolated compounds: 17284, 17286, 21680, 21681, 21683, 22233, 22234, 22235, 22236.
- T6645 *Urena lobata* (Malvaceae); DI TAO HUA; Rose Mallow. Used part: root or whole herb. TCM Effects: To dispel wind and disinherit damp, quicken blood and disperse swelling, clear heat and resolve toxin. TCM Indications: Common cold, wind-damp impediment pain, dysentery, diarrhea, strangury syndrome, vaginal discharge, menstrual disorder, painful swelling from knocks and falls, throat impediment, mammary welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 13481.
- T6646 *Urginea altissima* (Liliaceae); GAO HAI CONG. Isolated compounds: 10693, 22250.
- T6647 *Urginea epigea* (Liliaceae); CHU TU HAI CONG. Isolated compounds: 300, 9860.
- T6648 *Urginea fugax* (Liliaceae); YI XIAN HAI CONG. Isolated compounds: 7981.
- T6649 *Urginea maritima* (Liliaceae); HAI CONG; Red Squill. Isolated compounds: 278, 279, 3509, 6970, 16349, 19518, 19519, 19520, 19527, 19528, 19529, 19530.
- T6650 *Ursinia anthemoides* (Asteraceae). Isolated compounds: 22268.
- T6651 *Urtica cannabina* (Urticaceae); QIAN MA; Hempleaf Nettle. Equivalent plant: *Urtica dioica*. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, calm liver and settle fright, disperse accumulation and free stool, resolve toxin. TCM Indications: Wind-damp impediment pain, postpartum wind tetany, infant fright wind, sequel of poliomyelitis, hypertension, indigestion, fecal stoppage, urticaria, knocks and falls, snake or insect bites. Isolated compounds: 6454, 7882, 9624, 9625, 9832, 19922, 20254, 21340, 21341, 21343.
- T6652 *Urtica dioica* (Urticaceae); YI ZHU QIAN MA; Dioecious Nettle. Used part: whole herb. TCM Effects: See *Urtica cannabina*. TCM Indications: See *Urtica cannabina*. Isolated compounds: 115, 874, 1935, 2426, 2887, 2912, 3209, 3551, 3766, 3982, 4680, 5564, 7768, 7996, 8078, 8806, 9568, 9815, 9833, 10203, 10967, 11477, 12020, 13127, 13419, 14089, 14308, 14309, 14310, 14311, 15440, 15442, 15525, 15934, 16285, 18317, 18421, 19087, 19542, 19760, 19912, 19983, 19997, 20444, 22336, 22520.
Uruparia homomalla = *Uncaria homomalla*
Uruparia lanosa var. *parviflora* = *Uncaria homomalla*
Uruparia pilosa = *Uncaria scandens*
Uruparia tonkinensis = *Uncaria homomalla*
- T6653 *Usnea diffracta* (Usneaceae); HUAN JIE SONG LUO; Diffract Usnea Filament. Used part: filament. TCM Effects: See *Usnea longissima*.

- TCM Indications: See *Usnea longissima*. Isolated compounds: 2146, 5507, 22282.
- T6654 *Usnea longissima* (Usneaceae); SONG LUO; Long Usnea Filament. Equivalent plant: *Usnea diffracta*. Used part: filament. TCM Effects: To relieve cough and dispel phlegm, clear heat and resolve toxin, dispel damp and free network vessels, regulate menstruation and stanch bleeding, expel worms. TCM Indications: Headache, red eyes, cough with profuse phlegm, malaria, scrofula, vaginal discharge, flooding and spotting, bleeding due to external injury, swollen welling abscess, poisonous snake bite. Isolated compounds: 2146, 5507, 8788, 12982, 12983, 18527, 22282.
- T6655 *Ustilaginoidea virens* (Clavicipitaceae); JING GU NU; Fungus-infected Rice Spike. Used part: sclerotium and conidium, parasitized on spite of rice (*Oryza sativa* L.). TCM Effects: To clear heat and resolve toxin, disinhibit throat. TCM Indications: Throat impediment, swelling pain in throat. Isolated compounds: 22283, 22284.
- T6656 *Ustilago maydis* (Ustilaginaceae); YU MI HEI MEI; Black-powder Fungus in Corn. Used part: sporocarp. TCM Effects: To fortify spleen and stomach, disinhibit liver and gallbladder, quiet spirit. TCM Indications: Hepatitis, ulcer in gastrointestinal tract, indigestion, gan accumulation, insomnia. Isolated compounds: 12488, 14414.
- T6657 *Uvaria acuminata* (Annonaceae); JIAN ZI YU PAN; Acuminate Uvaria*. Isolated compounds: 594, 2280, 6528, 11323, 11751, 22287, 22290.
- T6658 *Uvaria angolensis* (Annonaceae); GUAN ZI YU PAN; Angola Uvaria*. Isolated compounds: 2224, 11751, 22287, 22290.
- T6659 *Uvaria boniana* (Annonaceae); GUANG YE ZI YU PAN; Glabrousleaf Uvaria. Isolated compounds: 20051, 22291, 22292, 22293, 22294, 22295, 22296, 22297.
- T6660 *Uvaria chamae* (Annonaceae); AN ZI YU PAN; Low Uvaria. Isolated compounds: 3463, 11321, 11751.
- T6661 *Uvaria dulcis* (Annonaceae); TIAN ZI YU PAN; Sweet Uvaria*. Isolated compounds: 5820, 5823, 10013.
- T6662 *Uvaria grandiflora* (Annonaceae); DA HUA ZI YU PAN; Largeflower Uvaria. Isolated compounds: 11375, 22298, 22299, 22300.
Uvaria heteroclita = *Kadsura heteroclita*
- T6663 *Uvaria klaineana* (Annonaceae); JIA PENG ZI YU PAN; Gabon Uvaria*. Isolated compounds: 12232.
- T6664 *Uvaria kweichowensis* (Annonaceae); LIU GUO ZI YU PAN; Kweichou Uvaria. Isolated compounds: 12397, 12398, 22299, 22988.
- T6665 *Uvaria macrophylla* (Annonaceae); DA YE ZI YU PAN; Largeleaf Uvaria*. Isolated compounds: 13318.
- T6666 *Uvaria narum* (Annonaceae); NA ER ZI YU PAN; Nar Uvaria*. Isolated compounds: 11375, 16584.
- T6667 *Uvaria scheffleri* (Annonaceae); XIE FEI ZI YU PAN; Scheffleri Uvaria*. Isolated compounds: 19464.
- V**
- Vaccaria pyramidata* = *Vaccaria segetalis*
- T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*] (Caryophyllaceae); WANG BU LIU XING; Cowherb. Used part: seed. TCM Effects: To quicken blood and free menstruation, promote lactation and disperse edema. TCM Indications: Galactostasis, amenorrhea, dysmenorrhea, mammary welling abscess. Isolated compounds: 9717, 11695, 13659, 19353, 19658, 19659, 19660, 19661, 19662, 19663, 19664, 19665, 19666, 19667, 19668, 22302, 22303, 22304, 22308, 22465.
- T6669 *Vaccinium ashei* (Ericaceae). Isolated compounds: 14575, 22306.
- T6670 *Vaccinium bracteatum* (Ericaceae); NAN ZHU ZHI; Oriental Blueberry Fruit. Used part: fruit. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, secure essence *qi*, check dysentery and diarrhea. TCM Indications: Liver kidney vacuity, premature graying in beard and hair, weakness in sinews and bones, chronic diarrhea, dream emission, incessant vaginal discharge, chronic diarrhea and dysentery. Isolated compounds: 6918, 7951, 9616, 11085.
- T6671 *Vaccinium macrocarpon* (Ericaceae); MEI ZHOU SUAN GUO LUO; American Cranberry. Isolated compounds: 3215, 13126.
- T6672 *Vaccinium* sp. (Ericaceae). Isolated compounds: 4439.
- T6673 *Vaccinium vitis-idaea* (Ericaceae); YUE JU YE; Cowberry Leaf. Used part: leaf. TCM Effects: To disinhibit urine, resolve toxin. TCM Indications: Strangury syndrome, pain wind. Isolated compounds: 324, 1618, 2039, 2893, 6853, 9740, 10623, 17867, 17876, 17884, 17890, 18792.
- T6674 *Valeriana alternifolia* var. *stolonifera* (Valerianaceae); MAO JIE XIE CAO; Hairnode Valeriana*. Isolated compounds: 22312.
- T6675 *Valeriana amurensis* (Valerianaceae); HEI SHUI XIE CAO; Amur Valeriana. Used part: root and rhizome. TCM Effects: See *Valeriana officinalis*. TCM Indications: See *Valeriana officinalis*. Isolated compounds: 13137, 22312.
- T6676 *Valeriana hardwickii* (Valerianaceae); CHANG XU XIE CAO; Hardwick Valeriana. Used part: root or whole herb. TCM Effects: To quicken blood and regulate menstruation, dispel wind and disinhibit damp, fortify spleen and disperse accumulation. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, wind-damp impediment pain, inhibited urination, painful wound from knocks and falls, angitis. Isolated compounds: 22312, 22314.
- T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (Valerianaceae); ZHI ZHU XIANG; Jatamans Valeriana. Used part: rhizome. TCM Effects: To rectify *qi* and disperse cold, quicken blood and regulate menstruation. TCM Indications: Sand and painful distention in stomach duct and abdomen, vomiting and diarrhea, beriberi with edema, wind-cold common cold, menstrual disorder, consumption damage and cough. Isolated compounds: 61, 121, 200, 534, 535, 2550, 2555, 2887, 3551, 4550, 5482, 5734, 9593, 9610, 9611, 11766, 12843, 12855, 13283, 13285, 14335, 15500, 16707, 17376, 22312, 22323.
- T6678 *Valeriana laxiflora* (Valerianaceae); SHU HUA JIE CAO; Laxflower Valeriana*. Isolated compounds: 2331, 2334, 7768, 9854, 10208, 10652, 10820, 16050, 17861, 19312, 21589, 21776, 22270.
- T6679 *Valeriana officinalis* (Valerianaceae); XIE CAO; Common Valeriana. Equivalent plant: *Valeriana officinalis* var. *latifolia*, *Valeriana amurensis*. Used part: root and rhizome. TCM Effects: To quiet heart and spirit, dispel wind-damp, move *qi*-blood, relieve pain. TCM Indications: Disquieted heart spirit, palpitation and insomnia, mania and withdrawal, visceral agitation, wind-damp impediment pain, distending pain in stomach duct, dysmenorrhea, amenorrhea, knocks and falls. Isolated compounds: 582, 928, 2305, 2412, 2550, 2850,

- 2887, 3045, 7229, 7749, 8754, 9455, 10601, 10652, 10654, 10655, 11754, 11755, 11762, 12604, 13283, 13590, 15222, 15223, 16884, 17412, 17415, 18279, 20998, 22312, 22313, 22314, 22315, 22316, 22317, 22318, 22319, 22320, 22321, 22323.
- T6680 *Valeriana officinalis* var. *latifolia* (Valerianaceae); KUO YE XIE CAO; Broadleaf Common Valeriana. Used part: root and rhizome. TCM Effects: See *Valeriana officinalis*. TCM Indications: See *Valeriana officinalis*. Isolated compounds: 2555, 3045, 4550, 6482, 12191, 12192, 12193, 12194, 12843, 17376, 17377, 20995, 22312, 22313, 22314.
- T6681 *Valeriana* sp. (Valerianaceae). Isolated compounds: 5482, 11754.
- T6682 *Valeriana* spp. (Valerianaceae). Isolated compounds: 3551, 22312.
Valeriana wallichii = *Valeriana jatamansii*
- T6683 *Vallisneria spiralis* (Hydrocharitaceae); KU CAO; Eelgrass. Used part: whole herb. TCM Effects: To dry damp and check discharge, move *qi* and quicken blood. TCM Indications: Vaginal discharge, postpartum persistent flow of lochia. Isolated compounds: 6722, 20168.
- T6684 *Vanilla planifolia* (Orchidaceae); XIANG ZI LAN; Vanilla. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Poisonous snake bites. Isolated compounds: 22336.
- T6685 *Vanilla* sp. (Orchidaceae). Isolated compounds: 1282, 17470, 22336.
- T6686 *Vatica rassak* (Dipterocarpaceae); QING MEI; Rassak *Vatica**. Isolated compounds: 17283, 18643, 22354, 22355, 22356, 22357, 22505.
- T6687 *Venidium decurrens* (Asteraceae); NI JIN ZHAN JU; Cape Dandelion. Isolated compounds: 9015.
- T6688 *Ventilago calyculata* (Rhamnaceae); MAO GUO YI HE GUO; Hairyfruit Ventilago. Isolated compounds: 6776.
- T6689 *Ventilago leiocarpa* (Rhamnaceae); YI HE GUO; Smoothfruit Ventilago. Used part: rhizome. TCM Effects: To supplement *qi* and blood, strengthen sinews and bones, soothe channels and network vessels. TCM Indications: *Qi*-blood depletion, menstrual disorder, anemia and amenorrhea, wind-damp pain, knocks and falls, taxation damage in lumbar muscle. Isolated compounds: 1764, 3319, 3615, 6776, 10068, 11191, 11192, 12606, 13098, 16665, 20010, 20369, 20711, 21713, 22377, 22378, 22379.
- T6690 *Vepris louisii* LU YI CI JU; Louis *Vepris**. Used part: stem cortex and root cortex. TCM Indications: Dermatitis^[5509]. Isolated compounds: 22380.
- T6691 *Veratrilba baillonii* (Gentianaceae); HUANG QIN JIAO; Baillon *Veratrilba*. Used part: root. TCM Effects: To clear heat and resolve toxin, kill worms, quicken network vessels and relieve pain. TCM Indications: Lung heat cough, tonsillitis, gastritis, dysentery, chronic cholecystitis, nephritis, mastitis, ascariasis, burns, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 21191, 22387, 22388.
- T6692 *Veratrum album* (Liliaceae); BAI LI LU; White Falsehellebore. Isolated compounds: 4522, 11866, 15395, 15452, 17995, 17996, 18643, 22395, 23033.
- T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*] (Liliaceae); BAN BIAN LIAN ZHUANG LI LU; Lobelia Falsehellebore*. Used part: root and rhizome. TCM Effects: To relieve pain, kill worms and ejection. TCM Indications: Wind-damp impediment pain, knocks and falls, scab and lichen, malign sore, mania and withdrawal with congesting phlegm. Isolated compounds: 783, 22395.
- T6694 *Veratrum californicum* (Liliaceae); JIA ZHOU LI LU; Californian Falsehellebore*. Isolated compounds: 4522.
- T6695 *Veratrum eschscholtzii* (Liliaceae); AI XI SHOU SHI LI LU; Eschscholtz Falsehellebore*. Isolated compounds: 15396.
- T6696 *Veratrum fimbriatum* (Liliaceae); LIU SU LI LU; Fimbriate Falsehellebore*. Isolated compounds: 15396.
- T6697 *Veratrum grandiflorum* (Liliaceae); MAO YE LI LU; Largeflower Falsehellebore. Used part: root and rhizome. TCM Effects: See *Veratrum nigrum*. TCM Indications: See *Veratrum nigrum*. Isolated compounds: 4337, 11866, 18643, 20056, 22386.
Veratrum lobelianum = *Veratrum album* var. *lobelianum*
- T6698 *Veratrum nigrum* (Liliaceae); LI LU; Black Falsehellebore. Equivalent plant: *Veratrum grandiflorum*. Used part: root and rhizome. TCM Effects: To promote vomiting, dispel wind and transform phlegm, lower blood pressure, kill worms. TCM Indications: Wind stroke with congesting phlegm, epilepsy, malaria, scab and lichen, malign sore. Isolated compounds: 3911, 4522, 8352, 11866, 18030, 19030, 20056, 22395, 23031, 23032.
- T6699 *Veratrum nigrum* var. *ussuriense* (Liliaceae); WU SU LI LI LU; Ussuri Falsehellebore. Isolated compounds: 18643, 22434.
- T6700 *Veratrum viride* (Liliaceae); LV LI LU; Green Falsehellebore. Isolated compounds: 8353, 11866, 15395, 15396, 15452, 22386.
- T6701 *Verbascum lychnites* (Scrophulariaceae); JIAN QIU LUO MAO RUI HUA; White Mullein. Isolated compounds: 56, 3306, 3307.
- T6702 *Verbascum phlomoides* (Scrophulariaceae); JU SE MAO RUI HUA; Orange Mullein. Isolated compounds: 4249.
- T6703 *Verbascum saccatum* (Scrophulariaceae); NANG ZHUANG MAO RUI HUA; Saccate Mullein*. Isolated compounds: 19104.
- T6704 *Verbascum sinuatum* (Scrophulariaceae); DI ZHONG HAI MAO RUI HUA; Mediterranean Mullein. Isolated compounds: 580.
- T6705 *Verbascum thapsus* (Scrophulariaceae); MAO RUI HUA; Flannel Mullein. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis. TCM Indications: Pneumonia, chronic appendicitis, sore toxin, sprain from knocks and falls, bleeding due to external injury. Isolated compounds: 2004, 3306, 4140, 18939.
- T6706 *Verbascum wiedemannianum* (Scrophulariaceae); ZI HUA GUAN MAO RUI HUA; Purplered-corolla Mullein*. Isolated compounds: 580, 7925, 12726, 13580, 22662, 22663, 22664, 22665, 22666.
- T6707 *Verbena hastata* (Verbenaceae); JI YE MA BIAN CAO; Hastate Verbena. Isolated compounds: 9244, 22397.
- T6708 *Verbena littoralis* (Verbenaceae); HAI BIAN MA BIAN CAO; Littoral Verbena*. Isolated compounds: 8259, 12934.
- T6709 *Verbena officinalis* (Verbenaceae); MA BIAN CAO; European Verbena. Used part: aerial parts. TCM Effects: To quicken blood and dissipate stasis, interrupt malaria, resolve toxin, disinhibit water and disperse edema. TCM Indications: Malaria, amenorrhea and dysmenorrhea, throat impediment, edema, heat strangury, diphtheria, bilharziosis, dysentery, concretion conglomeration accumulation and gathering. Isolated compounds: 618, 1792, 4060, 5735, 6123, 9244, 10698,

- 22270, 22271, 22397.
- T6710 *Verbena stricta* (Verbenaceae); JIAN TING MA BIAN CAO; Strict Verbena*. Isolated compounds: 22397.
- T6711 *Verbena triphylla* [Syn. *Lippia citriodora*] (Verbenaceae); SAN YE MA BIAN CAO; Trifoliolate Verbena*. Isolated compounds: 3760, 22399.
- T6712 *Vernonia amygdalina* (Asteraceae); BIAN TAO ZHUANG BAN JIU JU; Bitterleaf. Isolated compounds: 22405, 22412, 22414.
- T6713 *Vernonia anthelmintica* (Asteraceae); QU CHONG BAN JIU JU; Worm-killed Bitterleaf. Used part: fruit or whole herb. TCM Effects: To dispel wind and quicken blood, kill worms and relieve itch, resolve toxin. TCM Indications: White patch wind, skin diseases, oxyuria disease, ascariasis. Isolated compounds: 2559, 22406.
- T6714 *Vernonia chinense* (Asteraceae); ZHONG GUO BAN JIU JU; Chinese Bitterleaf*. Isolated compounds: 22407.
- T6715 *Vernonia colorata* (Asteraceae); YOU SE BAN JIU JU; Colorful Bitterleaf. Isolated compounds: 22412.
- T6716 *Vernonia esculenta* (Asteraceae); BAN JIU JU; Edible Bitterleaf. Used part: root or leaf. TCM Effects: To clear heat and resolve toxin, engender flesh and close sores. TCM Indications: Appendicitis, sore and boil, burns and scalds. Isolated compounds: 22405, 22411, 22413, 22414.
- T6717 *Vernonia flexuosa* (Asteraceae); WAN YAN BAN JIU JU; Flexuous Bitterleaf*. Isolated compounds: 22407, 22408.
- T6718 *Vernonia guineensis* (Asteraceae); JI NEI YA BAN JIU JU; Guinea Bitterleaf*. Isolated compounds: 5490, 5493, 16861, 22409, 22410.
- T6719 *Vernonia lasiopus* (Asteraceae). Isolated compounds: 7032, 12541, 22406.
- T6720 *Vernonia pogosperma* (Asteraceae); BO GE BAN JIU JU; Manysperma Bitterleaf*. Isolated compounds: 17600.
- T6721 *Vernonia* sp. (Asteraceae). Isolated compounds: 7226.
- T6722 *Veronica anagallis-aquatica* (Scrophulariaceae); BEI SHUI KU MAI; Watery Speedwell. Used part: whole herb with insect gall fruit. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Common cold, sore pharynx, taxation damage hemoptysis, dysentery, blood strangury, menstrual disorder [=menoxenia], swelling of sores, knocks and falls. Isolated compounds: 1538, 1539, 1540, 10353, 10355.
- T6723 *Veronica arvensis* (Scrophulariaceae); ZHI LI PO PO NA; Common Speedwell. Used part: whole herb. TCM Effects: To clear heat, interrupt malaria. TCM Indications: Malaria. Isolated compounds: 2004.
- T6724 *Veronica liwanensis* (Scrophulariaceae). Isolated compounds: 10352, 10356.
- T6725 *Veronica longifolia* (Scrophulariaceae); CHANG WEI PO PO NA; Longleaf Speedwell. Isolated compounds: 10352, 10356.
- T6726 *Veronica pectinata* var. *glandulosa* (Scrophulariaceae); SHU CHI PO PO NA; Pectinate Speedwell*. Isolated compounds: 6718, 22416, 22417, 22418.
- T6727 *Veronica persica* (Scrophulariaceae); A LA BO PO PO NA; Iran Speedwell. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, strengthen lumbus, interrupt malaria. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, enduring malaria. Isolated compounds: 580, 1082, 2004, 3307, 6632, 10353, 11195, 12577, 16994, 22392, 22403, 22415, 22419.
- T6728 *Veronica serpyllifolia* (Scrophulariaceae); XIAO PO PO NA; Thymeleaf Speedwell. Used part: whole herb. TCM Effects: To quicken blood and dissipate stasis, stanch bleeding, resolve toxin. TCM Indications: Knocks and falls, menstrual disorder, bleeding due to external injury, mouth sore, burns and scalds. Isolated compounds: 2004.
- T6729 *Veronica spuria* (Scrophulariaceae); YI ZHI XIANG; Bastard Speedwell. Used part: herb. TCM Effects: To suppress cough, transform phlegm, calm asthma. TCM Indications: Chronic trachitis. Isolated compounds: 10351, 13504.
- T6730 *Veronica thymoides* ssp. *pseudocinerea* (Scrophulariaceae); JIA HUI SE JIU LI XIANG PO PO NA; Thyme Speedwell*. Isolated compounds: 85, 2279, 3674, 6074, 6081, 7557, 10694, 10695, 11704.
- T6731 *Veronicastrum sibiricum* (Scrophulariaceae); ZHAN LONG JIAN; Siberian Veronicastrum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp pain in lumbus and legs, courbature, common cold, cystitis, tuberculosis, bleeding due to external injury, poisonous snake bite, poisonous insect stings. Isolated compounds: 3674, 4292, 5721, 12987, 13504, 14871, 19867, 19868, 19869, 19870, 20685, 20686.
- T6732 *Vespertilio superans* (Vespertilionidae); YE MING SHA; Bat Dung. Used part: dried feces. TCM Effects: To clear heat and brighten eyes, dissipate blood and eliminate accumulation. TCM Indications: Clear-eye blindness, night blindness, internal or external obstruction and screen, scrofula, gan accumulation, malaria. Isolated compounds: 3585, 22246, 22251.
- T6733 *Vetiveria zizanioides* (Poaceae); YAN LAN CAO; Vetiver. Isolated compounds: 22440, 22441.
- T6734 *Viburnum awabuki* (Caprifoliaceae); RI BEN JIA MI; Japanese Viburnum. Isolated compounds: 7033, 7034, 7036, 7037, 14399, 14404, 14615, 14616, 14617, 14648, 14808, 15472, 15473, 15474, 15475, 22443, 22444, 22446, 22448, 22451, 22452, 22453, 22454, 22455, 22456, 22457, 22458.
- T6735 *Viburnum dilatatum* (Caprifoliaceae); JIA MI; Linden Viburnum. Used part: stem-leaf. TCM Effects: To course wind and resolve exterior, clear heat and resolve toxin, quicken blood. TCM Indications: Wind-heat common cold, clove sore with fever, postpartum wind tetany, fracture due to knocks and falls. Isolated compounds: 15864.
- T6736 *Viburnum erubescens* (Caprifoliaceae); HONG JIA MI; Red Viburnum*. Isolated compounds: 9259.
- T6737 *Viburnum luzonicum* (Caprifoliaceae); LV SONG JIA MI; Luzon Viburnum*. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 13153, 13154, 13155, 13156, 13157, 13158, 13159, 13160, 13161, 13162, 13163, 13164, 13165, 13166, 13167.
- T6738 *Viburnum odoratissimum* (Caprifoliaceae); XIANG QI JIA MI; Sweet Viburnum*. Used part: Leaf, bark, root. TCM Effects: To dispel wind and eliminate damp, free channels and quicken network vessels. TCM Indications: Common cold, wind-damp impediment pain, painful

- swelling from knocks and falls, fracture. Isolated compounds: 881, 882, 7035, 7036, 7219, 7220, 10343, 10344, 10345, 10823, 14807, 22442, 22443, 22444, 22445, 22446, 22447, 22449, 22450, 22459, 22460.
- T6739 *Viburnum prunifolium* (Caprifoliaceae); YING YE JIA MI; Blackhaw. Isolated compounds: 19184.
- T6740 *Viburnum suspensum* (Caprifoliaceae); XUAN CHUI JIA MI; Weeping Viburnum*. Isolated compounds: 10576, 10577, 16400.
- T6741 *Viburnum tinus* (Caprifoliaceae). Isolated compounds: 6378, 19543, 22462, 22463.
- T6742 *Vicia amoena* (Fabaceae); SHAN YE WAN DOU; Broadleaf Vetch. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain, hypertonicity of sinews and vessels, scrotal eczema, knocks and falls, innominate toxin swelling, nosebleed(epistaxis), flooding and spotting. Isolated compounds: 1069, 12020.
- T6743 *Vicia angustifolia* (Fabaceae); ZHAI YE YE WAN DOU; Narrowleaf Vetch. Isolated compounds: 18324, 18325, 22465.
- T6744 *Vicia faba* (Fabaceae); CAN DOU; Broadbean. Used part: seed. TCM Effects: To fortify spleen and disinhibit water, resolve toxin and disperse swelling. TCM Indications: Diaphragm food, edema, sore toxin. Isolated compounds: 2331, 6558, 8806, 11825, 17425, 22466, 22741, 22742.
- T6745 *Vicia faba* (Fabaceae); CAN DOU JIA KE; Broadbean Pericarp. Used part: pericarp. TCM Effects: To stanch bleeding, close sores. TCM Indications: Hemoptysis, nosebleed(epistaxis), hematuria, bleeding of digestive tract, heaven-borne sore, scalds. Isolated compounds: 6558, 8806.
- T6746 *Vicia faba* (Fabaceae); CAN DOU JING; Broadbean Stem. Used part: stem. TCM Effects: To stanch bleeding, check diarrhea, resolve toxin and close sores. TCM Indications: Internal bleeding, water diarrhea, scalds. Isolated compounds: 8806.
- T6747 *Vicia faba* (Fabaceae); CAN DOU YE; Broadbean Leaf. Used part: leaf. TCM Effects: To stanch bleeding, close sores. TCM Indications: Tuberculosis and hemoptysis, bleeding of digestive tract, bleeding due to external injury, shank sore. Isolated compounds: 6558, 7853, 8806, 12060, 17515.
- T6748 *Vicia faba* var. *equina* (Fabaceae); MA CAN DOU; Horse Bean. Isolated compounds: 22466.
- T6749 *Vicia hirsuta* (Fabaceae); XIAO CHAO CAI; Pigeon Vetch. Used part: whole herb. TCM Effects: To resolve exterior and disinhibit damp, regulate menstruation and stanch bleeding. TCM Indications: Jaundice, malaria, menstrual disorder, nosebleed(epistaxis), Vaginal discharge. Isolated compounds: 1502.
- T6750 *Vicia sativa* (Fabaceae); DA CHAO CAI; Common Vetch. Used part: whole herb or seed. TCM Effects: To boost kidney, disinhibit water, relieve cough, stanch bleeding. TCM Indications: Kidney vacuity lumbago, jaundice, edema, malaria, nosebleed(epistaxis), palpitation, emission, menstrual disorder, toxin swelling of sores. Isolated compounds: 4452, 9717, 9798, 11642, 22465, 22466.
- T6751 *Vicia* sp. (Fabaceae). Isolated compounds: 1048, 1866, 9798, 10165.
- T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*] (Fabaceae); CHI DOU; Assuki Bean. Used part: seed. TCM Effects: To disinhibit water, disperse edema and abate jaundice, clear heat, resolve toxin and disperse welling abscess. TCM Indications: Edema, leg qi, jaundice, strangury, hematochezia, swelling toxin sores, lichen papules. Isolated compounds: 2058, 2059, 2060, 2065, 2066, 2067, 2068, 2069, 2070, 13107, 17876.
- T6753 *Vigna* sp. (Fabaceae). Isolated compounds: 18859.
- T6754 *Vigna unguiculata* (Fabaceae); JIANG DOU; Cow-pea. Used part: seed. TCM Effects: To fortify spleen and disinhibit damp, supplement kidney and rough essence. TCM Indications: Spleen-stomach vacuity, diarrhea and dysentery, vomiting of sour matter, kidney vacuity lumbago, emission, diabetes mellitus, leukorrhea, white turbidity, frequent urination. Isolated compounds: 17047, 17048, 22474.
- T6755 *Viguiera eriophora* ssp. *eriophora* (Asteraceae). Isolated compounds: 390, 2698, 2946, 7286, 9292, 12198, 12199, 12671, 21726.
- T6756 *Viguiera puruana* (Asteraceae). Isolated compounds: 447, 7286, 7408, 12671.
- T6757 *Viguiera stenoloba* (Compositae). Isolated compounds: 22475.
- T6758 *Viguiera tucumanensis* (Compositae). Isolated compounds: 3840.
- T6759 *Vinca erecta* (Apocynaceae); ZHI LI CHANG CHUN HUA; Erect Periwinkle. Isolated compounds: 12120, 12268, 22502, 22503.
- T6760 *Vinca herbacea* [Syn. *Vinca major*] (Apocynaceae); DA CHANG CHUN HUA; Greater Periwinkle. Isolated compounds: 12268, 18634, 19762, 22489, 22490.
Vinca major = *Vinca herbacea*
- T6761 *Vinca minor* (Apocynaceae); MAN CHANG CHUN HUA; Common Periwinkle. Isolated compounds: 6677, 18623, 22489, 22495.
- T6762 *Vinca* sp. (Apocynaceae). Isolated compounds: 5191.
- T6763 *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*] (Asclepiadaceae); YAO YONG BAI QIAN; White Swallow-wort. Isolated compounds: 22151, 22492.
- T6764 Vinegar CU Vinegar; Vinegar. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin and kill worms. TCM Indications: Postpartum blood dizziness, concretion and conglomeration, jaundice, yellow sweating, blood ejection, spontaneous external bleeding, hematochezia, itching in genital region, swelling of welling abscess, welling abscess and flat abscess with swelling sore. Isolated compounds: 108, 111, 5748, 7881.
- T6765 *Viola* sp. (Violaceae). Isolated compounds: 11183, 11184, 17470.
- T6766 *Viola tricolor* (Violaceae); SAN SE JIN; Garden Pansy. Used part: whole herb. TCM Effects: To suppress cough. TCM Indications: Cough, scrofula, infection of upper respiratory tract. Isolated compounds: 2017, 2039, 17264, 22519, 22521.
- T6767 *Viola yedoensis* (Violaceae); ZI HUA DI DING; Tokyo Violet. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Welling abscess and flat abscess with clove sore, erysipelas, mumps, mammary welling abscess, intestinal welling abscess, scrofula, damp-heat diarrhea dysentery, jaundice, red eyes with gall, poisonous snake bites. Isolated compounds: 1480, 1481, 1501, 11306, 22522.
- T6768 *Virola caducifolia* (Myristicaceae); LUO HUA NAN MEI ROU DOU KOU. Isolated compounds: 7883.
- T6769 *Virola multinervia* (Myristicaceae); DUO MAI NAN MEI ROU DOU KOU. Isolated compounds: 7883.

- T6770 *Viola surinamensis* [Syn. *Myristica surinamensis*] (Myristicaceae); SU LI NAN ROU DOU KOU; Ucahub; Baboen. Isolated compounds: 10515, 10516, 14381, 14383, 20492.
- T6771 *Viscum album* (Loranthaceae); LUAN YE HU JI SHENG; White Mistletoe. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, promote lactation. TCM Indications: Wind-damp impediment pain, limp wilting sinew and bone, lumbago and limp leg, postpartum scant milk. Isolated compounds: 22158.
- T6772 *Viscum angulatum* (Loranthaceae); LENG ZHI HU JI SHENG; Angulate Mistletoe*. Used part: stem-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, relieve cough, disperse swelling, lower blood pressure. TCM Indications: Wind-damp impediment pain, aching in lumbus and legs, cough, hemoptysis, stomachache, stirring fetus disquieted, sore and boil, hypertension. Isolated compounds: 9604, 15279, 17404, 18683, 21179, 22540.
- T6773 *Viscum articulatum* (Loranthaceae); BIAN ZHI HU JI SHENG; Flatshort Mistletoe. Used part: branchlet-leaf. TCM Effects: See *Viscum articulatum*. TCM Indications: See *Viscum articulatum*. Isolated compounds: 16050, 17405, 17407.
- T6774 *Viscum articulatum* (Loranthaceae); FENG XIANG JI SHENG; Flatshoot Mistletoe. Equivalent plant: *Viscum articulatum*. Used part: branchlet-leaf. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve cough and transform phlegm, stanch bleeding. TCM Indications: Wind-damp impediment pain, limp aching lumbus and knees, painful wound from knocks and falls, taxation damage cough, flooding and spotting with vaginal discharge, postpartum blood *qi* vacuity. Isolated compounds: 7338, 11083, 11084, 11085, 12905, 16050, 22536.
- T6775 *Viscum coloratum* (Loranthaceae); HU JI SHENG; Colored Mistletoe. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen sinews and bones, quiet fetus. TCM Indications: Hypertension, cerebral and cardiovascular diseases, wind-damp impediment pain, limp aching lumbus and knees, stirring fetus in pregnancy. Isolated compounds: 7280, 9604, 9605, 9705, 14418, 16050, 18675, 22536, 22537, 22538, 22539, 22540, 22541, 22542.
- T6776 *Viscum cruciatum* (Loranthaceae); SHI ZI XING FENG JI SHENG; Cruciate Mistletoe*. Isolated compounds: 4930.
- T6777 *Viscum multinerve* (Loranthaceae); BING GUO HU JI SHENG; Stipefruit Mistletoe. Used part: stem-leaf. TCM Effects: To dispel wind-damp, supplement liver and kidney, quicken blood and relieve pain, quiet fetus, promote lactation. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, knocks and falls, hypertension, stirring fetus disquieted, breast milk stoppage. Isolated compounds: 16823, 18675.
- T6778 *Viscum* sp. (Loranthaceae). Isolated compounds: 19922.
- T6779 *Vismia guianensis* (Clusiaceae). Isolated compounds: 22543, 22544, 22545, 22546, 22547, 22548, 22549.
- T6780 *Vismia orientalis* (Clusiaceae); DONG FANG WEI SI MU; Oriental Vismia*. Isolated compounds: 2346, 6776, 8325, 22551.
- T6781 *Vismia* sp. (Clusiaceae). Isolated compounds: 13808.
- T6782 *Vitex agnuscastus* (Verbenaceae); SUI HUA MU JING; Lilac Chastetree. Isolated compounds: 750, 751, 752, 5308.
- T6783 *Vitex altissima* (Verbenaceae); ZUI GAO MU JING YE; Highest Chastetree Leaf*. Isolated compounds: 1009, 9827.
- T6784 *Vitex littoralis* (Verbenaceae); BIN MU JING; Littoral Chastetree*. Isolated compounds: 11773, 22581.
- T6785 *Vitex lucens* (Verbenaceae); XIN XI LAN MU JING; Puriri. Isolated compounds: 2455, 11773, 22581.
- T6786 *Vitex megapotamica* (Verbenaceae). Isolated compounds: 18162.
- T6787 *Vitex negundo* (Verbenaceae); HUANG JING GEN; Negundo Chastetree Root. Used part: root. TCM Effects: To resolve exterior, relieve cough, dispel wind and eliminate damp, rectify *qi* and relieve pain. TCM Indications: Common cold, chronic trachitis, wind-damp impediment pain, stomachache, sand *qi*, abdominal pain. Isolated compounds: 15322, 15323.
- T6788 *Vitex negundo* (Verbenaceae); HUANG JING YE; Negundo Chastetree Leaf. Used part: leaf. TCM Effects: To clear heat and resolve exterior, resolve toxin and disinhibit damp. TCM Indications: Common cold, summerheat stroke, vomiting and diarrhea, dysentery, malaria, jaundice, rheumatism, painful swelling from knocks and falls, sore and welling abscess, scab and lichen. Isolated compounds: 107, 2259, 3300, 5319, 5387, 5401, 5536, 6483, 6500, 9507, 10252, 15324, 15628.
- T6789 *Vitex negundo* (Verbenaceae); HUANG JING ZHONG ZI; Negundo Chastetree Seed*. Used part: fruit. TCM Effects: To dispel wind and resolve exterior, relieve cough and calm asthma, rectify *qi* and disperse food with relieving pain. TCM Indications: Wind damage and common cold, cough, asthma, stomachache with acid regurgitation, indigestion, food accumulation diarrhea, cholecystitis, gallstones, mounting *qi* [=hernia]. Isolated compounds: 5279, 5582, 10185, 22565, 22566, 22567, 22594, 22595.
- T6790 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (Verbenaceae); DAN YE MAN JING; Simpleleaf Shrub Chastetree. Isolated compounds: 5279, 5280, 5281, 22590, 22591, 22592, 22593, 22594, 22595.
- T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (Verbenaceae); DAN YE MAN JING ZI; Simpleleaf Shrub Chastetree Fruit. Used part: seed. TCM Effects: See *Vitex trifolia*. TCM Indications: See *Vitex trifolia*. Isolated compounds: 159, 1792, 3045, 3300, 6160, 11208, 17376, 17377, 18656, 22571, 22575, 22576, 22577, 22578, 22580.
- T6792 *Vitex trifolia* (Verbenaceae); MAN JING YE; Threeleaf Chastetree Leaf. Equivalent plant: DAN YE MAN JING YE. Used part: leaf. TCM Effects: To disperse swelling and relieve pain. TCM Indications: Head wind, knocks and falls. Isolated compounds: 20999.
- T6793 *Vitex trifolia* (Verbenaceae); MAN JING ZI; Threeleaf Chastetree Fruit. Equivalent plant: *Vitex rotundifolia*. Used part: seed. TCM Effects: To dispel wind-heat, clear head and eyes. TCM Indications: Externally contracted wind-heat, dizziness and headache, migraine, gum swelling and pain, red eyes with gall, delacrimation, wind-damp impediment pain, hypertonicity of limbs. Isolated compounds: 6, 227, 3300, 3624, 3689, 4204, 4205, 5718, 9818, 12891, 15203, 16066, 16561, 17089, 17851, 18955, 19983, 19987, 20280, 20995, 21414, 22336, 22568, 22569, 22570, 22571, 22572, 22573, 22574, 22579, 22580, 22581. *Vitex trifolia* var. *simplicifolia* = *Vitex rotundifolia*

- T6794 *Vitis amurensis* (Vitaceae); SHAN PU TAO; Amur Grape. Used part: fruit. TCM Effects: To clear heat and disinhibit urine. TCM Indications: Heat vexation and thirst, urinary tract infection, inhibited urination. Isolated compounds: 1090, 1092, 1093, 1095, 17889, 22505, 22506, 22508, 22584, 22585, 22588, 22589.
- T6795 *Vitis coignetiae* (Vitaceae); XIE PU TAO; Coigne Grape*. Isolated compounds: 22586.
- T6796 *Vitis* sp. (Vitaceae). Isolated compounds: 13460.
- T6797 *Vitis* spp. (Vitaceae). Isolated compounds: 18643.
- T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape. Used part: fruit. TCM Effects: To supplement *qi* and blood, strengthen sinews and bones, disinhibit urine. TCM Indications: Vacuity of *qi* and blood, lung vacuity cough, palpitation and night sweating, wind-damp impediment pain, strangury, edema. Isolated compounds: 943, 1445, 1446, 1447, 2808, 3308, 3318, 7026, 8095, 8307, 8806, 9696, 9818, 14229, 16010, 16550, 16901, 17024, 17869, 17876, 17884, 18163, 18643, 18644, 18645, 18646, 19912, 20715, 21849, 22504, 22505, 22507, 22587.
- T6799 *Vitis vinifera* (Vitaceae); PU TAO TENG YE; European Grape Stem and Leaf. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, disinhibit water and disperse edema, resolve toxin. TCM Indications: Edema, inhibited urination, red eyes, swollen welling abscess, wind-damp impediment pain. Isolated compounds: 8806, 18421.
- T6800 *Viverra zibetha* (Viverridae); LING MAO XIANG; Civet. Used part: secretion with a musky odor secreted from anal scent glands. TCM Effects: To move *qi*, quicken blood, quiet spirit, relieve pain. TCM Indications: Sudden pain in heart and abdomen, mounting *qi*. Isolated compounds: 3780, 7420, 11025, 17935, 19459.
- T6801 *Vladimiria denticulata* (Asteraceae); YUE XI MU XIANG; Denticulate Vladimiria. Used part: root. TCM Effects: To rectify *qi*, relieve pain. TCM Indications: Pain in stomach duct and rib-side, diarrhea, dysentery, indigestion. Isolated compounds: 4128, 4891.
- T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*] (Asteraceae); CHUAN MU XIANG; Common Vladimiria. Used part: root. TCM Effects: To move *qi* and relieve pain. TCM Indications: Distending pain in stomach duct, rumbling intestines and diarrhea, tenesmus, liver gallbladder pain. Isolated compounds: 4128, 4891, 13588, 15705.
- T6803 *Volvariella volvacea* (Pluteaceae); CAO GU; Straw Mushroom. Used part: sporocarp. TCM Effects: To clear heat and resolve summerheat, supplement *qi* and blood, lower blood pressure. TCM Indications: Summerheat-heat vexation and thirst, vacuity and hypodynamia, hypertension. Isolated compounds: 14229, 14237.
- T6804 *Vouacapoua americana* (Fabaceae); MEI GUO KE YA SHU; American Vouacapoua*. Isolated compounds: 3276, 14814, 22619.
- T6805 *Vouacapoua macropetala* (Fabaceae); CHANG HUA BAN KE YA SHU; Longpetal Vouacapoua*. Isolated compounds: 17278.
- W**
- T6806 *Walsura piscidia* (Meliaceae); PI XI DI GE SHE SHU; Piscidi Cuttongue tree*. Isolated compounds: 17480.
- T6807 *Walsura yunnanensis* (Meliaceae); YUN NAN GE SHE SHU; Yunnan Cuttongue tree. Isolated compounds: 22631.
- T6808 *Waltheria americana* (Sterculiaceae); HE TA CAO; Florida Waltheria. Used part: root and stem. TCM Effects: To expel wind and eliminate damp, resolve toxin and eliminate inflammation. TCM Indications: Vaginal discharge, welling abscess and boil, mastitis. Isolated compounds: 648, 649, 650, 651.
- T6809 *Waltheria douradinha* (Sterculiaceae). Isolated compounds: 14815, 22632, 22633, 22634.
- T6810 *Warburgia salutaris*. Isolated compounds: 22638.
- T6811 *Warburgia stuhlmannii*. Isolated compounds: 6377, 11670, 15023, 15024, 15025.
- T6812 *Warburgia ugandensis*. Isolated compounds: 12017, 12084, 12100, 18388.
- T6813 *Warionia saharae*. Isolated compounds: 4941, 5274, 5275, 5494, 5794, 7115, 7182, 9564, 10155, 14195, 14978, 18673, 19128, 19129.
Wedelia calendulacea = *Wedelia chinensis*
- T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*] (Asteraceae); PENG QI JU; Chinese Wedelia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis. TCM Indications: Common cold with fever, pharyngolaryngitis, parotitis, tonsillitis, diphtheria, pertussis, trachitis, pneumonia, tuberculosis and hemoptysis, nosebleed(epistaxis), hematuria, infective hepatitis, dysentery, hemorrhoids, swelling toxin of clove sore. Isolated compounds: 5101.
- T6815 *Wedelia* sp. (Asteraceae). Isolated compounds: 11794.
- T6816 *Welwitschia mirabilis* (Welwitschiaceae); BAI SUI YE; Longlived Leaf. Isolated compounds: 8881.
- T6817 widely distributed in nature ; Widely distributed in nature. Isolated compounds: 618, 19759, 21342, 22324.
- T6818 *Wigandia urens* (Hydrophyllaceae). Isolated compounds: 6008, 14004, 14027.
- T6819 *Wikstroemia chamaedaphne* (Thymelaeaceae); HE SHUO YAO HUA; Lowdaphne Stringbush. Used part: bud. TCM Effects: To drain precipitation and expel water, reduce phlegm. TCM Indications: Edema, distention fullness in stomach duct, phlegm-rheum, cough and counterflow with asthma and fullness, infective hepatitis, schizophrenia, epilepsy. Isolated compounds: 15935, 22929.
- T6820 *Wikstroemia indica* (Thymelaeaceae); LIAO GE WANG GEN; Indian Stringbush Root. Used part: root. TCM Effects: To clear heat, disinhibit urine, resolve toxin, break accumulation and kill worms. TCM Indications: Pertussis, rheumatic arthritis, leprosy, bronchial asthma, amebic dysentery, pneumonia, epidemic parotitis, edema, scrofula, toxin swelling of sores, swelling and pus of sores, knocks and falls. Isolated compounds: 1621, 2490, 2491, 4651, 4657, 11017, 15805, 15809, 19891, 19892, 20556, 21589, 22668.
- T6821 *Wikstroemia lanceolata* (Thymelaeaceae); PI ZHEN XING YAO HUA; Lanceolate Stringbush*. Isolated compounds: 1537, 5376, 6204, 9035, 9544.
- T6822 *Wikstroemia monticola* (Thymelaeaceae); SHAN DI YAO HUA; Country Stringbush*. Isolated compounds: 19902.
- T6823 *Wikstroemia sikokiana* (Thymelaeaceae); SI GUO YAO HUA; Siko Stringbush*. Isolated compounds: 19890.
- T6824 *Wikstroemia* sp. (Thymelaeaceae). Isolated compounds: 17409, 20556.
- T6825 *Winchia calophylla* (Apocynaceae); PEN JIA SHU; Prettyleaf Winchia.

- Used part: leaf or bark. TCM Effects: To relieve cough and calm asthma. TCM Indications: Cough and asthma, enduring cough and asthma. Isolated compounds: 372, 6698.
- T6826 *Wisteria sinensis* (Fabaceae); ZI TENG; Chinese Wisteria. Used part: stem-leaf. TCM Effects: To disinhibit water, eliminate impediment, kill worms. TCM Indications: Edema, pain in joints, intestinal parasitic disease. Isolated compounds: 916, 917, 4594.
- T6827 *Wisteria sinensis* (Fabaceae); ZI TENG ZI; Chinese Wisteria Seed. Used part: seed. TCM Effects: To quicken blood and free network vessels, resolve toxin, kill worms. TCM Indications: Pain in sinews and bones, vomiting diarrhea with abdominal pain, child oxyuria disease. Isolated compounds: 4594.
- T6828 *Withania coagulans* (Solanaceae); NING GU SHUI QIE; Coagulate Withania. Isolated compounds: 3859, 9743, 10092, 22699, 22702.
- T6829 *Withania somnifera* (Solanaceae); CUI MIAN SHUI QIE; Somniferous Withania. Isolated compounds: 3859, 5739, 5740, 5879, 5880, 7082, 7128, 7129, 7210, 7210, 7211, 7212, 7213, 10587, 10828, 13181, 14230, 16789, 17237, 21148, 22698, 22700, 22700, 22700, 22702, 22704, 22705, 22706, 22707, 22708, 22709, 22710, 22711, 22712, 22713, 22714.
- T6830 *Woodfordia fruticosa* (Lythraceae); XIA ZI HUA; Shrubby Woodwardia. Used part: root or flower. TCM Effects: To quicken blood and stanch bleeding, soothe sinews and quicken network vessels. TCM Indications: Dysmenorrhea, menstrual block, flooding, nosebleed(epistaxis), coughing of blood, intestinal wind bleeding, dysentery, wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls. Isolated compounds: 15719.
- T6831 *Woodwardia orientalis* (Blechnaceae); DONG FANG GOU JI; Oriental Chain Fern. Used part: rhizome. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen lumbus and knees, resolve toxin, kill worms. TCM Indications: Aching pain in lumbus and back, knee pain and legs weakness, dysentery, flooding and spotting, leukorrhea, child gan accumulation, concretion and conglomeration, snake bite. Isolated compounds: 3040, 3042, 3043, 3044, 11067, 17700, 19987, 19997, 22721, 22722.
- T6832 *Woodwardia virginica* (Blechnaceae); FU JI NI YA GOU JI JUE; Virginia Chain Fern. Isolated compounds: 22723, 22724, 22725.
- T6833 *Wrightia javanica* (Apocynaceae); ZHAO WA DAO DIAO BI; Java Wrightia*. Isolated compounds: 22735, 22736.
- T6834 *Wrightia tomentosa* (Apocynaceae); YAN MU; Tomentose Wrightia. Used part: root or stem. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Snake bite. Isolated compounds: 11340, 22733.
- X**
- T6835 *Xanthium canadense* (Asteraceae); JIA NA DA CANG ER; Canadian Cocklebur*. Isolated compounds: 9740, 11203.
- T6836 *Xanthium chasei* (Asteraceae); CAI SI CANG ER; Chase Cocklebur*. Isolated compounds: 22780.
- T6837 *Xanthium chinense* (Asteraceae); ZHONG GUO CANG ER; Burweed. Isolated compounds: 22780.
- T6838 *Xanthium commune* (Asteraceae); PU TONG CANG ER; Common Cocklebur*. Isolated compounds: 22757.
- T6839 *Xanthium occidentale* (Asteraceae); XI FANG CANG ER; Occidental Cocklebur*. Isolated compounds: 22780.
- T6840 *Xanthium orientale* (Asteraceae); DONG FANG CANG ER; Oriental Cocklebur*. Isolated compounds: 22757.
- T6841 *Xanthium pennsylvanicum* (Asteraceae); BIN XI FA NI YA CANG ER; Pennsylvanian Cocklebur*. Isolated compounds: 22755.
- T6842 *Xanthium riparium* (Asteraceae); XIAO XI CANG ER; Ripply Cocklebur*. Isolated compounds: 22755.
- T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*] (Asteraceae); CANG ER; Siberian Cocklebur. Used part: stem-leaf. TCM Effects: To dispel wind, dissipate heat, eliminate damp, resolve toxin. TCM Indications: Allergic rhinitis, nervous headache, rheumatic arthritis, pain in limbs, sciatica, eczema, itchy skin, chronic sinus infections, otitis media, parotitis, common cold, head wind, dizziness, deep-source nasal congestion, red eyes, eye screen, wind-damp impediment pain, hypertonicity and numbness, wind *lai*, clove sore, scab and lichen, itchy skin, hemorrhoids, dysentery. Isolated compounds: 5413, 11590, 20369, 21552, 22755, 22757, 22780.
- T6844 *Xanthium* sp. (Asteraceae). Isolated compounds: 22755.
Xanthium strumarium = *Xanthium sibiricum*
- T6845 *Xanthoceras sorbifolia* (Sapindaceae); WEN GUAN MU; Shinyleaf yellowhorn. Used part: stem or branch-leaf. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp-heat impediment, pain in sinews and bones. Isolated compounds: 15170, 18317, 22758.
- T6846 *Xanthorhiza simplicissima* (Asteraceae); HUANG GEN SHU; Yellowroot. Isolated compounds: 15885, 16439.
Xanthoxylum americanum = *Zanthoxylum americanum*
- T6847 *Xeranthemum cylindraceum* (Asteraceae); CHANG TONG HAN HUA; Cylinder Immortelle. Isolated compounds: 22784.
- T6848 *Xerocomus badius* (Boletaceae); HE RONG GAI NIU GAN JUN; Bay Bolete. Isolated compounds: 15717.
- T6849 *Xylaria* sp. Isolated compounds: 6267, 10207, 10505.
- T6850 *Xylophia aromatica* (Annonaceae); FANG XIANG MU BAN SHU; Aromatic Xylophia*. Isolated compounds: 22816, 22817.
- T6851 *Xylophia buxifolia* (Annonaceae); HUANG YANG YE MU BAN SHU; Boxleaf Xylophia*. Isolated compounds: 15797.
- T6852 *Xylophia columbiana* (Annonaceae); GE LUN BI YA MU BAN SHU; Columbia Xylophia*. Isolated compounds: 1459, 1770, 13634, 13715, 15885, 21258.
- T6853 *Xylophia discreta* (Annonaceae); XI SHU MU BAN SHU; Discrete Xylophia*. Isolated compounds: 22818.
- T6854 *Xylophia parviflora* (Annonaceae); XIAO HUA MU BAN SHU; Smallflower Xylophia*. Isolated compounds: 4886, 5602, 6316, 14674, 14708, 22819.
- T6855 *Xylophia vielana* (Annonaceae); MU BAN SHU; Common Xylophia. Isolated compounds: 22469, 22470, 22471, 22472, 22473.
- Y**
- T6856 *Yathea podophylla* (Cyatheaceae); BING YE SUO LUO. Isolated compounds: 6612, 10121, 19979.
- T6857 Yeast and other biological sources. Isolated compounds: 22255.

Z

- T6858 *Zanthoxylum acanthopodium* (Rutaceae); CI HUA JIAO; Acanthoid Pricklyash*. Used part: root or fruit. TCM Effects: To warm center and dissipate cold, kill worms and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, wind-cold-damp impediment, knocks and falls, abdominal pain due to worm accumulation. Isolated compounds: 7719, 17572, 19540, 19777, 20665.
- T6859 *Zanthoxylum acutifolium* (Rutaceae); JIAN YE HUA JIAO; Acute-leaf Pricklyash*. Isolated compounds: 595, 597, 598.
- T6860 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO; Ailanthus-like Pricklyash. Used part: fruit. TCM Effects: To warm center, dry damp, kill worms, relieve pain. TCM Indications: Cold pain in heart and abdomen, cold rheum, diarrhea, cold dysentery, damp impediment, red and white vaginal discharge, toothache. Isolated compounds: 775, 776, 5445, 12571, 15631, 19618, 22781.
- T6861 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO GEN; Ailanthus-like Pricklyash Root. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, disinhibit water and disperse edema. TCM Indications: Wind-damp impediment pain, abdominal pain and diarrhea, inhibited urination [=dysuria], bleeding due to external injury, knocks and falls, poisonous snake bites. Isolated compounds: 15631.
- T6862 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO PI; Ailanthus-like Pricklyash Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain, disinhibit urine. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, knocks and falls, abdominal pain and diarrhea, inhibited urination, toothache, eczema, scab and lichen. Isolated compounds: 5445, 12571, 15631, 17572, 20002, 22781.
- T6863 *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*] (Rutaceae); MEI ZHOU HUA JIAO; Pricklyash. Isolated compounds: 941, 6484, 15631, 22777, 22781.
- T6864 *Zanthoxylum armatum* (Rutaceae); MAO ZHU YE HUA JIAO; Armate-leaf Pricklyash*. Used part: fruit. TCM Effects: To dissipate cold, relieve pain, expel roundworm. TCM Indications: Stomach cold, stomachache due to roundworm, toothache, damp sore. Isolated compounds: 1737.
- T6865 *Zanthoxylum arnotianum* (Rutaceae); A NUO TI HUA JIAO; Arnotti Pricklyash*. Isolated compounds: 1833, 5445, 13571.
- T6866 *Zanthoxylum avicennae* (Rutaceae); YING BU BO; Avicenna's Pricklyash. Used part: root. TCM Effects: To dispel wind and transform damp, disperse swelling and free network vessels. TCM Indications: Swelling pain in throat, yellow swelling, malaria, wind-damp bone pain, contusion from knocks and falls. Isolated compounds: 2035, 2037, 6454, 15631.
- T6867 *Zanthoxylum belizense* (Rutaceae); BO LI ZI HUA JIAO; Beliz Pricklyash*. Isolated compounds: 3096, 3770.
- T6868 *Zanthoxylum brachyacanthum* (Rutaceae); DUAN CI HUA JIAO; Shortspine Pricklyash*. Isolated compounds: 3057, 14209.
- T6869 *Zanthoxylum bungeanum* (Rutaceae); HUA JIAO; Bunge Pricklyash. Equivalent plant: *Zanthoxylum schinifolium*. Used part: pericarp. TCM Effects: To warm center and relieve pain, dispel damp and kill worms. TCM Indications: Spleen-stomach vacuity cold, cold pain in stomach duct and abdomen, vomiting, diarrhea, abdominal pain and vomiting due to roundworm. Isolated compounds: 2745, 3689, 4357, 7385, 14538, 15631, 19468, 20002, 20992, 20995, 22966, 22969.
- T6870 *Zanthoxylum bungeanum* (Rutaceae); HUA JIAO GEN; Bunge Pricklyash Root. Used part: root. TCM Effects: To kill worms. TCM Indications: Vacuity cold of kidney and bladder, blood strangury, beriberi, damp sore. Isolated compounds: 20002.
- T6871 *Zanthoxylum clava-hercules* (Rutaceae); MEI GUO CI JIAO; Hercules' Club. Isolated compounds: 9428, 15631, 17572.
- T6872 *Zanthoxylum cuspidatum* (Rutaceae); HUA JIAO LE; Cuspidate Pricklyash. Used part: stem-leaf or root. TCM Effects: To quicken blood, dissipate stasis, relieve pain. TCM Indications: Stasis stagnation pain in stomach duct and abdomen, knocks and falls. Isolated compounds: 9226, 11237, 12917, 15631, 15632.
- T6873 *Zanthoxylum decaryi* (Rutaceae); DE KA RUI HUA JIAO; Decary Pricklyash*. Isolated compounds: 1833, 5445.
- T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium* (Rutaceae); CI YI YE HUA JIAO; Spinyleaf Pricklyash. Used part: root. TCM Effects: To dispel wind and dissipate cold, dissipate stasis and settle pain, stanch bleeding and engender flesh. TCM Indications: Wind-cold-damp impediment, wind-cold cough, knocks and falls, static blood swelling pain, bleeding due to external injury. Isolated compounds: 6026.
- T6875 *Zanthoxylum dipetalum* (Rutaceae); ER DUN ZHUANG HUA JIAO; Twopetaline Pricklyash*. Isolated compounds: 3096.
- T6876 *Zanthoxylum dissitum* (Rutaceae); DA YE HUA JIAO; Shellfish Pricklyash. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, regulate menstruation. TCM Indications: Mounting *qi* (hernia), profuse menstruation. Isolated compounds: 15631.
- T6877 *Zanthoxylum dissitum* (Rutaceae); DA YE HUA JIAO GEN; Shellfish Pricklyash Root. Used part: root. TCM Effects: To dispel wind and dissipate cold, rectify *qi* and quicken blood. TCM Indications: Wind-cold-damp impediment, *qi* stagnation and pain in stomach duct, cold mounting with abdominal pain, toothache, knocks and falls. Isolated compounds: 15631.
- T6878 *Zanthoxylum echinocarpum* (Rutaceae); CI KE HUA JIAO; Spinyfruit Pricklyash. Used part: root, root cortex or stem-leaf. TCM Effects: To disperse food and assisting movement, move *qi* and relieve pain. TCM Indications: Spleen weakness and functional weakness, reduced food intake with abdominal distention, *qi* stagnation and pain in stomach duct. Isolated compounds: 15631.
- T6879 *Zanthoxylum elephantiasis* (Rutaceae); HOU PI HUA JIAO; Thickbark Pricklyash*. Isolated compounds: 3070, 3096, 12571.
- T6880 *Zanthoxylum flavum* (Rutaceae); HUANG XIN HUA JIAO; Yellow-heart Pricklyash. Isolated compounds: 15631.
- T6881 *Zanthoxylum hamiltonianum* (Rutaceae); GAO SHAN HUA JIAO; Alpine Pricklyash. Isolated compounds: 2284.
- T6882 *Zanthoxylum integrifolium* (Rutaceae); QUAN YUAN YE HUA JIAO; Integrifolious Pricklyash*. Isolated compounds: 147, 4648, 5347, 9742, 10236, 10237, 12498, 12499, 12500, 19298, 21057.
- T6883 *Zanthoxylum myriacanthum* (Rutaceae); DA YE CHOU HUA JIAO; Manyspiny Pricklyash*. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, resolve toxin and disperse swelling,

- stanch bleeding and relieve pain. TCM Indications: Wind-cold common cold, wind-damp impediment pain, fracture due to knocks and falls, bleeding due to external injury, burns and scalds, poisonous snake bite. Isolated compounds: 15631.
- T6884 *Zanthoxylum nitidum* (Rutaceae); RU DI JIN NIU; Shinyleaf Pricklyash. Used part: root or branchlet-leaf. TCM Effects: To dispel wind and free network vessels, disperse swelling and relieve pain. TCM Indications: Wind-damp bone pain, stomachache, toothache, throat impediment, scrofula, burns and scalds. Isolated compounds: 1833, 2523, 3499, 6454, 11093, 11237, 11423, 12917, 14819, 15631, 15632, 16443, 16454, 16477, 19540, 19777.
- T6885 *Zanthoxylum ovalifolium* (Rutaceae); TUO YUAN YE HUA JIAO; Ellipticleaf Pricklyash*. Isolated compounds: 3096.
- T6886 *Zanthoxylum piperitum* (Rutaceae); HU JIAO HUA JIAO; Japanese Pricklyash. Isolated compounds: 1833, 7703, 13716, 19777, 22779, 23023, 23024, 23025, 23026, 23027, 23028.
- T6887 *Zanthoxylum planispinum* (Rutaceae); ZHU YE JIAO; Bambooleaf Pricklyash. Used part: fruit. TCM Effects: To dissipate cold, relieve pain, expel roundworm. TCM Indications: Stomach cold, stomachache due to roundworm, toothache, damp sore. Isolated compounds: 5445, 7703, 20002, 22771.
- T6888 *Zanthoxylum planispinum* (Rutaceae); ZHU YE JIAO GEN; Bambooleaf Pricklyash Root. Used part: root. TCM Effects: To dispel wind and quicken blood, dissipate cold and relieve pain. TCM Indications: Common cold with headache, cough, vomiting and diarrhea, pain in joints due to rheumatism, knocks and falls, toothache. Isolated compounds: 5445, 7703, 17504, 22771.
- T6889 *Zanthoxylum podocarpum* (Rutaceae); BING GUO HUA JIAO; Stalkedfruit Pricklyash. Used part: bark. TCM Effects: To dispel cold, settle pain, course wind, fortify stomach. TCM Indications: Wind-damp pain in sinew and bone, throat pain, summerheat stroke, knocks and falls, snake bite. Isolated compounds: 17572, 17587.
- T6890 *Zanthoxylum rhesta* (Rutaceae). Isolated compounds: 10117.
- T6891 *Zanthoxylum rubescens* (Rutaceae); HONG HUA JIAO; Red Pricklyash*. Isolated compounds: 9818, 14444.
- T6892 *Zanthoxylum schinifolium* (Rutaceae); QING JIAO; Peppertree Pricklyash. Used part: pericarp. TCM Effects: See *Zanthoxylum bungeanum*. TCM Indications: See *Zanthoxylum bungeanum*. Isolated compounds: 147, 1186, 2010, 2309, 3926, 14112, 19467, 19468, 19470, 19540, 20002, 22195.
- T6893 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO GEN; Flatspine Pricklyash Root. Used part: root cortex. or stem cortex. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, resolve toxin. TCM Indications: wind-cold-damp impediment, sinew and bone numbness, cold pain in stomach duct and abdomen, vomiting and diarrhea, toothache, skin sores, poisonous snake bites. Isolated compounds: 19904, 19905, 19906, 19907.
- T6894 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO PI; Flatspine Pricklyash Bark. Used part: root cortex or stem cortex. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, resolve toxin. TCM Indications: Wind-cold-damp impediment, sinew and bone numbness, cold pain in stomach duct and abdomen, vomiting and diarrhea, toothache, skin sores, poisonous snake bites. Isolated compounds: 9656, 16443, 18830.
- T6895 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO YE; Flatspine Pricklyash Leaf. Used part: leaf. TCM Effects: To dispel wind and dissipate cold, fortify stomach and expel worms, dispel damp and check diarrhea, quicken blood and free menstruation. TCM Indications: Knocks and falls, wind-damp pain, pain of blood stasis, amenorrhea, hemoptysis, blood ejection, pain wind in joints. Isolated compounds: 370, 2227, 12850, 14037, 19297, 19540, 22967, 22969.
- T6896 *Zanthoxylum* sp. (Rutaceae). Isolated compounds: 126, 136, 775, 776, 1737, 2034, 4348, 4349, 4967, 5549, 5858, 6040, 6261, 6262, 7063, 11286, 11423, 12611, 12612, 13801, 14086, 14121, 15335, 16423, 16978, 17411, 17413, 17417, 19469, 19471, 20658, 22965, 22968, 22970, 22972.
- T6897 *Zanthoxylum* spp. (Rutaceae). Isolated compounds: 3498.
- T6898 *Zanthoxylum tsihanimposa* (Rutaceae); QI HAN NING HUA JIAO; Tsihanim Pricklyash*. Isolated compounds: 7703.
- T6899 *Zanthoxylum veneficium* (Rutaceae); DU HUA JIAO; Venous Pricklyash*. Isolated compounds: 3057, 14209.
- T6900 *Zea mays* (Poaceae); YU MI FU; Maize Bran. Isolated compounds: 4977.
- T6901 *Zea mays* (Poaceae); YU MI XU; Maize Style. Used part: style and stigma. TCM Effects: To disinhibit urine and disperse edema, clear liver and disinhibit gallbladder. TCM Indications: Edema, dribbling urination, jaundice, cholecystitis, gallstones, hypertension, diabetes mellitus, galactostasis. Isolated compounds: 11083, 11084, 11085.
- T6902 *Zea mays* (Poaceae); YU SHU SHU; Maize. Used part: seed. TCM Effects: To regulate center and increase appetite, boost lung and quiet heart, disinhibit urine. TCM Indications: Inappetence, inhibited urination, edema, urethral stone. Isolated compounds: 933, 3208, 3210, 3215, 3605, 3606, 4293, 8078, 10609, 18261, 19983, 20369, 20434, 22058, 22975, 22976.
- T6903 *Zephyranthes candida* (Amaryllidaceae); GAN FENG CAO; Autumn Zephyrlily. Used part: herb. TCM Effects: To calm liver and extinguish wind. TCM Indications: Infant fright wind, epilepsy, tetanus. Isolated compounds: 9187, 13241, 15496, 17850, 20891.
- Zephyranthes carinata* = *Zephyranthes grandiflora*
- T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*] (Amaryllidaceae); FENG YU HUA; Rosepink Zephyrlily. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Blood ejection, hematochezia, flooding and spotting, red swollen due to knocks and falls, red swollen sore and welling abscess, poisonous snake bite. Isolated compounds: 3198, 16601.
- T6905 *Zexmenia brevifolia* DUAN YE PENG QI JU. Isolated compounds: 22987.
- T6906 *Zexmenia bupthalmiflora* NIU YAN PENG QI JU. Isolated compounds: 18229.
- T6907 *Zingiber aromaticum* (Zingiberaceae); FANG XIANG JIANG; Aromatic Ginger. Isolated compounds: 4680, 7105, 7106, 8395, 8396, 8397, 9664, 9668, 12024, 12025, 12026, 12035, 12036, 12037, 12044, 12070, 12082, 12099, 19846, 19847, 19983, 19987, 21600, 22984, 22985.
- T6908 *Zingiber cassumunar* (Zingiberaceae); YE JIANG; Cassumuna

- Ginger*. Isolated compounds: 6277, 6278, 6279, 6280, 6282, 10438, 21924.
- T6909 *Zingiber officinale* (Zingiberaceae); GAN JIANG; Common Ginger Dried Rhizome. Used part: dried rhizome. TCM Effects: To warm center and dissipate cold, return yang and free vessels, warm lung and transform rheum. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea, yang-collapse reversal flow, cold rheum asthma cough, cold-damp impediment pain. Isolated compounds: 2412, 3045, 3689, 3760, 3761, 3762, 4390, 4550, 4833, 5302, 7162, 7728, 8312, 8386, 8387, 8388, 8389, 8390, 8391, 8394, 8395, 8396, 8397, 8398, 9409, 9498, 10178, 10179, 10189, 11438, 12843, 13802, 15681, 15685, 17055, 19787, 19846, 23003, 23004.
- T6910 *Zingiber officinale* (Zingiberaceae); SHENG JIANG; Fresh Common Ginger. Used part: fresh rhizome. TCM Effects: To dissipate cold and resolve exterior, downbear counterflow and check vomiting, relieve cough and transform phlegm. TCM Indications: Wind-cold common cold, fever and aversion to wind, headache and nasal congestion, vomiting, phlegm-rheum cough asthma, distention fullness, diarrhea. Isolated compounds: 135, 210, 336, 399, 675, 928, 2306, 2412, 2550, 2787, 3045, 3048, 3150, 3151, 3194, 3242, 3351, 3689, 3760, 3761, 3762, 3768, 3769, 4029, 4305, 4390, 4550, 4921, 4922, 5288, 5302, 5503, 5906, 6358, 6741, 6742, 6746, 7119, 7162, 7393, 7418, 7454, 7475, 7514, 7523, 7729, 7730, 7734, 7750, 7752, 8082, 8312, 8313, 8382, 8383, 8384, 8385, 8386, 8389, 8390, 8391, 8394, 8395, 8399, 8400, 8849, 9408, 9409, 10011, 10183, 10184, 10436, 10448, 10452, 11259, 11260, 11438, 11752, 12843, 12849, 13742, 13743, 13802, 14111, 14127, 14463, 14464, 14475, 14529, 14601, 15498, 15499, 15500, 15683, 15686, 15687, 15926, 15973, 15974, 16650, 16926, 17056, 17376, 17425, 17916, 17930, 19121, 19307, 19846, 19848, 19849, 19850, 19851, 20990, 20992, 20995, 20998, 21349, 21598, 21975, 23003, 23004, 23022.
- T6911 *Zingiber zerumbet* (Zingiberaceae); HONG QIU JIANG; Zerumbet Ginger. Isolated compounds: 9671, 9672, 10834, 22984, 22985, 22986.
- T6912 *Zinnia elegans* (Asteraceae); BAI RI CAO; Youth-and-old-age. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Damp-heat dysentery, strangury syndrome, mammary welling abscess, swollen boil. Isolated compounds: 1124, 1492.
- T6913 *Zizia aptera* (Apiaceae); JI JI QIN; Heart-leaved Alexanders. Isolated compounds: 1536, 18165.
- T6914 *Ziziphus amphibia* (Rhamnaceae); SHUI LU ZAO; Amphibian Jujube*. Isolated compounds: 1080.
- T6915 *Ziziphus cambodiana* (Rhamnaceae); JIAN PU ZHAI ZAO; Cambodia Jujube*. Isolated compounds: 2334, 10383.
- T6916 *Ziziphus jujuba* (Rhamnaceae); DA ZAO; Chinese Date. Equivalent plant: *Ziziphus jujuba* var. *inermis*. Used part: ripe fruit. TCM Effects: To supplement center and boost qi, nourish blood and quiet spirit. TCM Indications: Reduced food intake due to spleen vacuity, lack of strength and sloppy stool, visceral agitation. Isolated compounds: 984, 1857, 2303, 2331, 2334, 2338, 3308, 3318, 3932, 4147, 4148, 4169, 4170, 4187, 6059, 7787, 9486, 11904, 11905, 11906, 11909, 11911, 11912, 12891, 13419, 15203, 15528, 16050, 16402, 17983, 18834, 19087, 19921, 20172, 20280, 20322, 20369, 20515, 20715, 22270, 22554, 22615, 23010, 23013, 23015, 23016, 23017, 23018.
- T6917 *Ziziphus jujuba* var. *inermis* (Rhamnaceae); WU CI ZAO; Spineless Common Jujube. Used part: ripe fruit. TCM Effects: See *Ziziphus jujuba*. TCM Indications: See *Ziziphus jujuba*. Isolated compounds: 4596, 18834, 18918, 23011, 23012, 23019, 23020.
- T6918 *Ziziphus jujuba* var. *spinosa* (Rhamnaceae); SUAN ZAO; Spine Date. Used part: seed. TCM Effects: To quiet heart and spirit, nourish liver, constrain sweat. TCM Indications: Vacuity vexation and egeris, fright palpitation and fearful throbbing, spontaneous sweating and night sweating due to vacuity. Isolated compounds: 16050, 22270.
- T6919 *Ziziphus jujuba* var. *spinosa* (Rhamnaceae); SUAN ZAO REN; Spine Date Seed. Used part: seed. TCM Effects: To supplement liver, quiet heart, constrain sweat, engender liquid. TCM Indications: Neurasthenia, vacuity vexation and insomnia, fright palpitation, arrhythmia, frequent dreaming, vacuity and profuse sweating, fluid damage and thirst. Isolated compounds: 443, 984, 2334, 2838, 3345, 4187, 4680, 6662, 7768, 7787, 11907, 11909, 11910, 11911, 11913, 11914, 11915, 11989, 13258, 14148, 19289, 19290, 19291, 19292, 19293, 19294, 19921, 20172, 20515, 23007, 23015.
- T6920 *Ziziphus mauritiana* (Rhamnaceae); MIAN ZAO; Indian Jujube. Used part: bark. TCM Effects: To eliminate inflammation and engender flesh. TCM Indications: Burns and scalds, throat pain, diarrhea, dysentery. Isolated compounds: 1081, 7937, 13613, 13614.
- T6921 *Ziziphus abyssinica* (Rhamnaceae); AI SAI E BI YA ZAO; Ethiopian Jujube*. Isolated compounds: 15020.
- T6922 *Ziziphus mucronata* (Rhamnaceae); JIAN YE ZAO; Mucronated Jujube*. Isolated compounds: 15020.
- T6923 *Ziziphus oenoplia* (Rhamnaceae); XIAO GUO ZAO; Littlefruit Jujube. Isolated compounds: 23014.
- T6924 *Ziziphus xylopyrus* (Rhamnaceae). Isolated compounds: 11313.
- T6925 *Zostera marina* (Potamogetonaceae); HAI DAI; Ellgrass. Used part: whole herb. TCM Effects: To clear heat and resolve phlegm, soften hardness and dissipate binds, disinhibit water. TCM Indications: Goiter and tuberculosis, mounting-conglomeration, edema, beriberi. Isolated compounds: 1521, 8078, 14818.
- T6926 *Zygodphyllum atriplicoides*. Isolated compounds: 1997, 1998, 8732.

(Note: For plant T1471, T4056, T4057 and T5757, there is no isolated compound data.)

Jiaju Zhou · Guirong Xie · Xinjian Yan

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Molecular Structures, Pharmacological Activities, Natural Sources and Applications

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Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences^[1-4], involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

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Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

1. Compound Entry

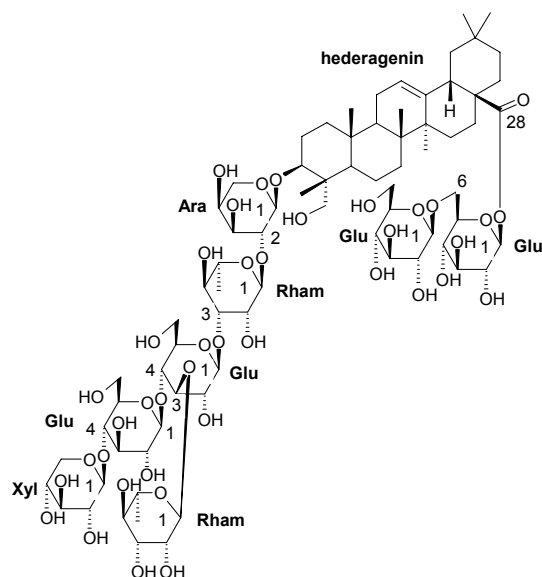
Format of Compound Entry. A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

Title line (code number, main name)

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

Chemical Names and Synonyms. Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

Stereochemistry of Chemical Structure. We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-O-[β -D-Xylopyranosyl(1 \rightarrow 4)- β -D-gluco-pyranosyl(1 \rightarrow 4)]
 [α -L-rhamnopyranosyl(1 \rightarrow 3)]- β -D-gluco-pyranosyl(1 \rightarrow 3)-
 α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl **hederagenin**-
 28-O- β -D-gluco-pyranosyl(1 \rightarrow 6)- β -D-gluco-pyranoside

Normalization of Pharmacological Data. More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD₅₀, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

Term name (*in vitro/in vivo*,
 target cell **1**, quantitative data,
 control Compound, control's data;
 target cell **2**, quantitative data,
 control Compound, control's data;
 target cell **3**, quantitative data,
 control Compound, control's data;
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,
 BT474 human galactophore cancer cell, $IC_{50} = 4.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.08\mu\text{g/mL}$;
 CHAGO human undifferentiated lung cancer cell, $IC_{50} = 5.7\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 2.3\mu\text{g/mL}$;
 HepG2 human liver cancer cell, $IC_{50} = 6.5\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 0.9\mu\text{g/mL}$;
 Kato3 human gastric cancer cell, $IC_{50} = 5.3\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.7\mu\text{g/mL}$;
 SW620 human colorectal adenocarcinoma cell, $IC_{50} = 5.6\mu\text{g/mL}$,
 control Doxorubicin hydrochloride, $IC_{50} = 1.1\mu\text{g/mL}$).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

2. Plant Entry

One Species One Entry. Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

Simplified Latin Name. For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

Family Name. According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);
 Arecaceae (Palmae);
 Asteraceae (Compositae);
 Brassicaceae (Cruciferae);
 Clusiaceae (Guttiferae);
 Fabaceae (Leguminosae);
 Lamiaceae (Labiatae) and
 Poaceae (Gramineae).

PIN-YIN Name and Chinese Name. A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN⁽¹⁾ and BAI MAO GEN⁽⁴⁾ are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN⁽¹⁾; Lalang Grass Rhizome.
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN⁽⁴⁾; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI⁽⁴⁾; Japanese Thistle.
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI⁽³⁾; Peking Euphorbia.
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU⁽³⁾ JU; Mayweed.
 T0197 *Aegle marmelos* (Rutaceae); MU⁽⁴⁾ JU; Sepiaria.
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN⁽³⁾; Common Bruguiera.
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN⁽²⁾; True Indigo.
 T6798 *Vitis vinifera* (Vitaceae); PU⁽²⁾ TAO; European Grape.
 T6267 *Syzygium jambos* (Myrtaceae); PU⁽³⁾ TAO; Roseapple.
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU⁽⁴⁾; Noble Dendrobium.
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU⁽³⁾; Official Evodia.
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU⁽²⁾; Divaricate Bluebeard.
 T1478 *Citrus grandis* (Rutaceae); YOU⁽⁴⁾; Pummelo.

Translation of TCM Effects Terms. In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)^[R01-R04] and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system^[R05-R07] for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water
 quicken blood and dispel stasis
 quicken blood and dispel wind
 quicken blood and disperse swelling
 quicken blood and disperse welling abscess
 quicken blood and dissipate binds
 quicken blood and dissipate stasis
 quicken blood and free menstruation
 quicken blood and free network vessels
 quicken blood and free vessels
 quicken blood and joint bones
 quicken blood and move *qi*
 quicken blood and move stasis
 quicken blood and nourish heart
 quicken blood and promote milk
 quicken blood and quiet spirit
 quicken blood and regulate menstruation
 quicken blood and relieve pain
 quicken blood and resolve toxin
 quicken blood and settle pain
 quicken blood and soothe sinews
 quicken blood and stanch bleeding
 quicken blood and strengthen sinews
 quicken blood and transform stasis
 quicken blood and vessels

Translation of TCM Indications Terms. Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*^[R08], "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*^[R09], and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

yin vacuity internal heat
yin vacuity lung dryness
yin vacuity tidal fever
 chest impediment
 chest impediment and heart pain
 chest impediment and heart pain over back
 chest oppression and pain
 chest oppression with breathe hard
 distention pain in rib-side
 distention pain in stomach duct
 distention pain in stomach duct and abdomen
 externally contracted summer heat-damp
 externally contracted wind evil
 externally contracted wind-cold
 externally contracted wind-heat
 knocks and falls
 sores
 sores clove boil
 swelling of sores and boils
 sore scab and lichen
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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- R02** Huiyuan Zhang, Zhiying Zhang, Zunsun Yue, Rongling Guo, et al., *Brief Flora of Chinese medicine*, Science Press, Beijing, 1994
- R03** Chinese Materia Medica Editing Committee of the National Chinese Medicine and Pharmacology Bureau, *Chinese Materia Medica* (“ZHONG HUA BEN CAO”), Vol. 1–Vol. 30, Shanghai Science and technology Press, Shanghai, 1999
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(English translation tools)

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(Names of plant, bacteria, fungus)

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How to Use the Books

1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....	
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

Sketch Map of Three Important “Many to Many” Relationships

2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

Index 1 (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

Index 2 (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula $C_{45}H_{76}O_{18}$:

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

Index 3 (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

Index 4 (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

Index 5 (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

Index 6 (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

nourish heart and quiet spirit:

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*],
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],
 T1381 *Choerospondias axillaris*,
 T4194 *Menyanthes trifoliata*,
 T4400 *Nelumbo nucifera*,
 T4902 *Pimpinella thelungiana*,
 T5108 *Polygonum multiflorum*,
 T5497 *Rhodiola kirilowii*,
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

angina pectoris: T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

externally contracted wind-cold: T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

externally contracted wind-heat: T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

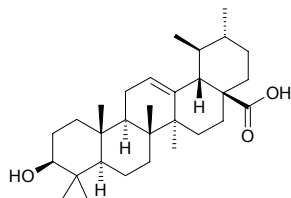
3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

22270 Ursolic acid

β -Ursolic acid [77-52-1] C₃₀H₄₈O₃ (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

Cytotoxic (KB, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.12µg/mL; Hep3B, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.14µg/mL; Colon205, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.10µg/mL; HeLa, ED₅₀ > 25µg/mL, control Doxorubicin, ED₅₀ = 0.11µg/mL)^[4369];

cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ = (8.8±1.5)µmol/L, control Etoposide, IC₅₀ = (0.5±0.2)µmol/L, *cis*-Platin, IC₅₀ = (3.2±0.5)µmol/L; KB cell, IC₅₀ = (8.2±2.7)µmol/L, Etoposide, IC₅₀ = (0.9±0.3)µmol/L, *cis*-Platin, IC₅₀ = (4.4±0.9)µmol/L; HT29 cell, IC₅₀ = (4.7±1.5)µmol/L, Etoposide, IC₅₀ = (2.4±0.5)µmol/L, *cis*-Platin, IC₅₀ = (5.7±1.1)µmol/L)^[5254];

antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);

antibacterial (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)^[5315];

antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50~400µg/mL, gram-negative bacteria *in vitro*, MIC = 200~800µg/mL, microzyme *in vitro*, MIC = 100~700µg/mL);

antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC₅₀ = 46.5µg/mL, SI (IC₅₀/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC₅₀ = 98.3µg/mL, SI = 3277)^[4986];

anticonvulsant (induced by corazol);

anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);

anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE₂ release)^[5016];

COX-2 enzyme selective inhibitor (mean IC₅₀ of isomers = 130µmol/L)^[4415];

COX-2 enzyme inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)^[4415];

antipyretic (clearly reduces normal body temperature of rat);

reduces serum transaminase (animal, 100mg/kg);

antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)^[2579];

mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)^[4084];

platelet aggregation inhibitor (2~5mg/mL collagen-induced, IC₅₀ = (511±4)µmol/L, control ASA, IC₅₀ = (420±3)µmol/L; 1~4µmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC₅₀ = (82.6±2.8)µmol/L, ASA, IC₅₀ = (53.0±4.5)µmol/L; 10~40µmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC₅₀ =

(669±12)μmol/L, ASA, IC₅₀ = (66.0±2.1)μmol/L; 1~5μmol/L PGH₂/TXA₂ receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC₅₀ > 1000μmol/L, ASA, IC₅₀ = (340±12)μmol/L)^[4994];

tissue factor inhibitor inactive^[5387];

antirheumatic^[5341];

anti-diabetic^[5341];

antiulcer^[5341];

hypolipidemic^[5341];

anti-atherosclerotic^[5341];

anti-HIV^[5341];

TGF-β1 antagonist (inhibits the binding of ¹²⁵I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC₅₀ = (6.9±0.8)μmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)^[5496];

glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

LD₅₀ (mus, ip) = 680mg/kg.

Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)^[5508];

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)^[5508];

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)^[5508],

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)^[5508]; leaf: mean content = 0.573%)^[5508];

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)^[5508],

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)^[5508],

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)^[5508],

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)^[5508],

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)^[5508],

RI BEN LU TI CAO *Pyrola japonica*,

RONG SHU *Ficus microcarpa* (aerial root),
 SHAN DI XIANG CHA CAI *Isodon oresbia*,
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)^[5501],
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content
 scope = 0.24%~0.32%)^[5501], mean content = 0.263%)^[5508],
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)^[5508],
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)^[5508],
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)^[5508],
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)^[5508],
 WEI LING CAI *Potentilla chinensis*,
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)^[5508],
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =
 0.399%)^[5508],
 YI LANG QING LAN *Dracocephalum kotschyi*,
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =
 0.041%)^[5508],
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)^[5508],
Cussonia bancoensis,
 Occurs in many plants.

Ref: 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,
 5508.

Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
¹²⁵ I-TGF- β 1	¹²⁵ I-Transforming Growth Factor- β 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 β), monocyte chemotactic protein (MCP-2), and C lymphotactin (Itn) (a chemokine family)
95%FL (=CI ₉₅)	95% Fiducial Limits (=95% Confidence Interval)	CC ₀	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC ₅₀	IC ₅₀ of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS ⁺	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD ₅₀	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC ₅₀ /CD)
AG	aminoguanidine	CI ₉₅ (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-(<i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	β -Secretase	CXC	Stromal cell-derived factor (SDF)-1 α and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	D-GalN	D-galactosamine
c	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -(<i>N</i> - <i>L</i> - γ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[a]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC ₅₀	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC ₅₀	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED ₂₅	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED ₅₀	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH [•]
EGF	Epidermal Growth Factor (it protects MPP ⁺ -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC ₅₀	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC ₁₀₀	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID ₅₀	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- γ	Interferon- γ
fp	freezing point	IgE	Immunoglobulin E
FR ₅₀	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	γ -aminobutyric acid	IL-1 α	interleukin-1 α
GaIN	galactosamine	IL-1 β	interleukin-1 β
GI	growth inhibition	IL-2	Interleukin-2
GI ₅₀	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm ²)	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH ₂ -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD ₅₀	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC ₅₀	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC ₅₀	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD ₁₀₀	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD ₅₀	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N ^o -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N ^G -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB ₄	Leukotriene B ₄	NGF	Nerve Growth Factor
LTC ₄	Leukotriene C ₄	NMDA	N-methyl-D-aspartate
LTD ₄	Leukotriene D ₄	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmN Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC ₅₀)	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIC ₈₀	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC ₉₀	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC ₅₀	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC ₅₀)
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD ₂	prostaglandin D ₂	sp.	species
PGE ₂	prostaglandin E ₂	SP-A	pulmonary surfactant Protein A
PGF _{2α}	prostaglandin F _{2α}	spp.	species (plural)
PGH ₂	prostaglandin H ₂	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI ₂	prostacyclin (prostaglandin I ₂)	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC ₅₀	negative logarithm (-logM) of IC ₅₀	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA ₂	phospholipase A ₂	TACE	α -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC ₅₀	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- β_1	Transforming Growth Factor- β_1
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC ₅₀ /EC ₅₀)
PTN	parthenolide	TNF- α	Tumor Necrosis Factor- α
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA ₂	thromboxane A ₂
RDS	Respiratory Distress Syndrome	TXB ₂	thromboxane B ₂
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccinia open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC ₅₀	Half-maximal radical Scavenging Concentration	ww	wet weight
SC ₅₀	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC ₅₀ /target EC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target IC ₅₀		
SI	Selective index = cytotoxic IC ₅₀ /target MIC		

Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

1A9	hmn ovarian cancer (cell).	CaEs-17	hmn esophageal cancer (cell).
212	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	CAKI	hmn renal cancer (cell).
308	cultured mouse epidermal cells.	CAKI-1	hmn renal cancer (cell).
3LL	mus Lewis lung cancer (cell).	Calu1	hmn lung cancer (cell).
3PS	mouse leukemia (cell).	Capan1	pancreas cancer (cell).
780-6	renal cancer (cell).	Capan2	pancreas cancer (cell).
9KB	hmn epidermatoid nasopharyngeal carcinoma (cell).	CaSki	hmn cervical carcinoma (cell).
9L	rat glioma (cell).	CEM	leukemia (cell).
9PS	mouse lymphocytic leukemia (cell).	CHAGO	hmn undifferentiated lung cancer (cell).
A2780	hmn ovarian cancer (cell).	CNE	hmn nasopharyngeal carcinoma (cell).
A375	hmn melanoma (cell).	Col1	hmn colorectal cancer (cell).
A431	hmn epidermic cancer (cell).	Col2	hmn colorectal cancer (cell).
A498	hmn renal cancer (cell).	COLO320DM	hmn colorectal cancer (cell).
A549	hmn non-small cell lung cancer (cell).	Colon205	colorectal cancer (cell).
ACHN	hmn renal cancer (cell).	Colon26-L5	mus colorectal cancer (cell).
AGS	gastric adenocarcinoma (cell).	COS-7	monkey kidney cells.
APM1840	hmn leukemia (cell).	CPAE	calf pulmonary arterial endothelial cells.
B16	mouse melanoma (cell).	CT-26	mus colorectal cancer (cell).
B16(F-10)	mouse melanoma (cell).	CTV1	hmn leukemia (cell).
BAEC	bovine aortic endothelial cells.	CXF94L	hmn tumor (cell).
BC	hmn breast cancer (cell).	DLD	hmn colorectal adenocarcinoma (cell).
BC-1	hmn breast cancer (cell).	DLD-1	hmn colorectal adenocarcinoma (cell).
BCA-1	hmn breast cancer (cell).	DMS114	hmn lung cancer (cell).
Bcap37	hmn breast cancer (cell).	DMS273	hmn lung cancer (cell).
Bel7402	hmn liver cancer (cell).	DU145	prostatic cancer (cell).
Bel7405	hmn liver cancer (cell).	EAC	Ehrlich ascites cancer (cell).
BGC823	hmn gastric cancer (cell).	EJ-1	hmn bladder cancer (cell).
BIU87	bladder cancer (cell).	FM3A	mus breast cancer (cell).
BL6	mouse melanoma (cell).	H.Ep.-2	hmn cutis cancer cells in throat.
Bowes	skin cancer cells.	H116	hmn colorectal cancer (cell).
Bre04	hmn breast cancer (cell).	H9	lymphocytes.
BSY1	breast cancer (cell).	HBC4	breast cancer (cell).
BT474	hmn galactophore cancer (cell).	HBC5	breast cancer (cell).
BT549	hmn galactophore cancer (cell).	HCC2998	hmn colorectal cancer (cell).
BXPC3	pancreas cancer (cell).	HCT	hmn colorectal cancer (cell).
C6	rat glioma (cell).	HCT116	hmn colorectal cancer (cell).
CA	hmn liver cancer (cell).	HCT15	hmn colorectal cancer (cell).

HCT8 hmn colorectal cancer (cell).
HEK-293 hmn epithelial kidney cell.
HEL hmn embryonic lung fibrocytes.
HeLa culture cervical epithelial cancer (cell) from Henrietta Lack.
HeLa ATCC-17 hmn cervical epithelial cancer (cell).
HeLa-S3 hmn cervical epithelial cancer (cell).
HELF normal hmn embryo lung fibroblasts.
Hep2 hmn liver cancer (cell).
Hep2,2,15 hmn liver cancer (cell) transfected with hepatitis B virus.
Hep3B hmn liver cancer (cell).
Hepa hmn liver cancer (cell).
Hepa1c1c7 mus liver cancer (cell).
Hepa59T/VGH hmn liver cancer (cell).
HepG2 hmn liver cancer (cell).
HEPZ hmn epithelial cancer (cell).
HFF hmn foreskin fibroblasts.
HGF normal hmn gingival fibroblast cells.
HL-60 hmn acute promyelocytic leukemia (cell).
HM02 hmn melanoma (cell).
HMC-1 hmn leukemic mast cells.
HMEC hmn microvascular endothelial cells.
HO-8910 hmn ovarian cancer (cell).
HOG.R5 green fluorescent protein (GFP)-based reporter cell.
HONE-1 hmn nasopharyngeal carcinoma (cell).
HOP-62 non-small cell lung cancer (cell).
Hs578T hmn breast cancer (cell).
Hs740T hmn gastric cancer (cell).
Hs742T hmn breast cancer (cell).
Hs756T hmn gastric cancer (cell).
HSC-2 hmn oral squamous cell carcinoma cells.
HSG hmn salivary gland tumor (cell).
HT sarcoma (cell).
HT1080 hmn fibrosarcoma (cell).
HT29 hmn colorectal cancer (cell).
HT3 hmn cervical carcinoma (cell).
hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells.
Huh7 hmn hepatoma (cell).
HUVEC hmn umbilical vein endothelial cell.
Jurkat-T hmn T-cell leukemia (cell).
K562 hmn leukemia (cell).
K562/ADM hmn leukemia (cell) of adriamycin-resistant.
Kato3 hmn gastric cancer (cell).
KB hmn nasopharyngeal carcinoma (cell).
KB15 hmn nasopharyngeal carcinoma (cell).
KB16 hmn nasopharyngeal carcinoma (cell).
KB3 hmn nasopharyngeal carcinoma (cell).
KBV200 MDR nasopharyngeal carcinoma (cell).
KB-VIN vincristine-resistant nasopharyngeal carcinoma (cell).
Ketr3 hmn renal cancer (cell).
KG-1 hmn leukemia (cell).
KM12 hmn colorectal cancer (cell).
KM20L2 hmn colorectal cancer (cell).
KU-1 hmn bladder cancer (cell).
L₁₂₁₀ Lymphocytic leukemia (cell).
L5178Y lymphosarcoma (cell).
L-6 rat skeletal myoblasts.
L₆₁₅ mouse spleen leukemia (cell).
L₇₂₁₂ mouse leukemia (cell).
L-929 fibrosarcoma (cell).
LLC mouse Lewis lung cancer (cell).
LMTK mouse fiber cells.
LNCaP hmn prostatic cancer (cell).
LNCaP-FGC hmn prostatic cancer (cell).
LO2 hmn liver cell.
LoVo hmn colorectal cancer (cell).
LoVo/Doxo hmn colorectal cancer cell, drug-resistant subclone.
LOX melanoma (cell).
LOX-IMVI melanoma (cell).
LS174T colorectal cancer (cell).
Lu04 hmn lung cancer (cell).
Lu1 hmn lung cancer (cell).
LXFL529L hmn large cell lung cancer (cell).
M1 mus myelocytic leukemia (cell).
M14 melanoma (cell).
M4BEU hmn melanoma (cell).
M5076 ovarian sarcoma (cell).
Ma7373 mus breast cancer (cell).
MALME-3M melanoma (cell).
MBT-2 mus bladder cancer (cell).
MCF7 hmn breast cancer (cell).
MCF7/6 hmn breast cancer (cell).
MCF7/ADR-RES hmn breast cancer (cell).
MCF7-ras hmn breast cancer (cell).
MDA231 hmn breast cancer (cell).
MDA-MB-231 hmn breast cancer (cell).
MDA-MB-435 hmn breast cancer (cell).
MDCK Madin-Darby Canine.
MEL-28 hmn melanoma cell.
Meth-A Meth-A sarcoma (cell).
MGc803 hmn gastric adenocarcinoma (cell).
MH-60 mus leukemia (cell).
MI4 melanoma (cell).
MIA-PaCa-2 hmn pancreas cancer (cell).
MK1 hmn gastric cancer (cell).
MKN1 hmn gastric cancer (cell).
MKN28 hmn gastric cancer (cell).
MKN45 hmn gastric cancer (cell).
MKN7 hmn gastric cancer (cell).
MKN74 hmn gastric cancer (cell).
MM1 highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.
Molt4 hmn lymphoma (cell).
Mono-Mac-6 mononuclear cells.
MQc80-3 gastric adenocarcinoma (cell).
MRC-5 hmn diploid embryonic cells.

MS301 mus breast cancer (cell).
MS310 mus breast cancer (cell).
N04 hmn neuroma (cell).
NCI-H1417 hmn small cell lung cancer (cell).
NCI-H187 hmn small cell lung cancer (cell).
NCI-H226 hmn non-small cell lung cancer (cell).
NCI-H23 hmn lung cancer (cell).
NCI-H460 hmn lung cancer (cell).
NCI-H522 hmn lung cancer (cell).
NK/LY ascites cancer (cell).
NSCLC-N6 hmn non-small cell lung cancer (cell).
NUGC hmn gastric cancer (cell).
NUGC-3 hmn gastric cancer (cell).
NUGC-4 hmn gastric cancer (cell).
OVCAR-2780 ovarian adenocarcinoma (cell).
OVCAR-3 ovarian adenocarcinoma (cell).
OVCAR-4 ovarian adenocarcinoma (cell).
OVCAR-5 ovarian adenocarcinoma (cell).
OVCAR-8 ovarian adenocarcinoma (cell).
P1534 mus, transplanted leukemia (cell).
P₃₈₈ mouse lymphocytic leukemia (cell).
P₃₈₈/ADM mouse lymphocytic leukemia (cell) of adriamycin-resistant.
PACA-2 hmn pancreas cancer (cell) .
PANC1 pancreas cancer (cell).
PBMC peripheral blood mononuclear cells.
PC12 hmn lung cancer (cell).
PC3 hmn prostatic cancer (cell).
PC-6 hmn lung cancer (cell).
PLC/PRF/5 hmn liver cancer (cell).
PSN1 hmn pancreas cancer (cell).
PTX10 ovarian cancer cells with β -tubulin mutation.
QGY-7703 hmn liver cancer (cell).
RAW264.7 mouse macrophages.
RBL-2H3 rat basophilic cells.
RL33 rbt lung cancer (cell).
RPMI-7951 melanoma (cell).
RPMI-8226 leukemia (cell).
RXF-393 renal cancer (cell).
RXF-631L renal cancer (cell).
S₁₈₀ mouse sarcoma (cell).
S37 mouse sarcoma (cell).
Sca7901 hmn gastric adenocarcinoma (cell).
SCL hmn gastric cancer (cell).
SCL-37'6 hmn gastric cancer (cell).
SCL-6 hmn gastric cancer (cell).
SCL-9 hmn gastric cancer (cell).
SF268 hmn brain tumor (cell).
SF295 hmn brain tumor (cell).
SF539 hmn brain tumor (cell).
SGC hmn gastric cancer (cell).
SGC7901 hmn gastric cancer (cell).
SiHa hmn cervical carcinoma (cell).
SKBR3 hmn breast cancer (cell).
SKCO1 colorectal cancer (cell).
SK-MEL hmn caucasian melanoma (cell).
SK-MEL-2 hmn melanoma (cell).
SK-MEL-28 hmn melanoma (cell).
SK-MEL-5 hmn melanoma (cell).
SK-MES-1 bronchogenic carcinoma cell.
SK-OV-3 ovarian adenocarcinoma (cell).
SMMC-7721 hmn liver cancer (cell).
SNB75 hmn brain tumor (cell).
SNB78 hmn brain tumor (cell).
SNU638 hmn gastric adenocarcinoma (cell).
SR leukemia (cell).
St4 gastric cancer (cell).
SVR mouse endothelial cells.
SW620 hmn colorectal adenocarcinoma (cell).
T24 hmn liver cancer (cell).
T24S hmn bladder cancer (cell).
T47D hmn breast cancer (cell).
T98G hmn caucasian glioblastoma (cell).
TK10 renal cancer (cell).
Tmolt3 hmn leukemia (cell).
U14 mouse cervical carcinoma (cell).
U251 brain tumor (cell).
U373 caucasian glioblastoma (cell).
U4 mouse cervical carcinoma (cell).
U-87-MG caucasian glioblastoma (cell).
U937 hmn monocytic leukemia (cell).
UACC62 melanoma (cell).
UO-31 renal cancer (cell).
Vero green monkey kidney tumour (cell).
W₂₅₆ rat Walker sarcoma (cell).
WEHI-164 mus fibrosarcoma (cell).
WHCO1 hmn esophageal cancer (cell).
WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte).
WiDr colorectal adenocarcinoma (cell).
Wish transformed epithelial tumour (cell).
XF-498 hmn tumor (cell).
ZR-75-1 hmn breast cancer (cell).

Volume 6 Indexes

Compound Pharmacological Activity Index

This index lists all 3367 normalized pharmacological activity terms appeared in the encyclopedia in alphabetical order and a number code sequence of the related compounds follows the bold term immediately.

Authors would like to give some reminder to readers: (1), for normalization of pharmacological terms, please see “Abbreviations and Symbols” and “Cancer Cell Codes in Pharmacological Models” in Volume 1. (2), in the encyclopedia the *in vivo* anticancer activity data are defined as “antineoplastic” while the *in vitro* anticancer activity data are defined as “cytotoxic”. (3), the inactive experimental data in literatures are also collected. The formatted method of inactive data is putting word “inactive” after the activity term, for example “AChE inhibitor inactive”, “Cytotoxic inactive” and so on.

- Acaricide** 3502, 10680, 21360.
Acaricide (*Dermatophagoides pteronyssinus*) 18563, 18564, 18565, 18566.
ACAT inhibitor 9083.
ACE inhibitor 4225, 6757, 6921, 7978, 8095, 8155, 10887, 11350, 11642, 12916, 14261, 16011, 16773, 16774, 16776, 17895, 18358, 18371, 18411, 21392.
Acetylcholine antagonist 12083.
Acetylcholine transferase activator 893, 894, 896.
AChE inhibitor 408, 460, 904, 2220, 2233, 2813, 2814, 2815, 3516, 3881, 3882, 4236, 4237, 4241, 4292, 4516, 4532, 4542, 4568, 4862, 4863, 4877, 4996, 5098, 5255, 5256, 5722, 5739, 5828, 6159, 6842, 7038, 7128, 7177, 7381, 7381, 7414, 7835, 7928, 8009, 8083, 9200, 9201, 9206, 9946, 10197, 10258, 10260, 11002, 11004, 11291, 11462, 12351, 12352, 12834, 12835, 13241, 13571, 14078, 14449, 15322, 15323, 15647, 15718, 15800, 16117, 16988, 17035, 19354, 19355, 19356, 20440, 20511, 20685, 20686, 20891, 21374, 22195, 22700, 22774, 22781.
AChE inhibitor inactive 7082, 7210, 7213, 19696.
Acidic component of common plants 18421.
Activates basophilic cells 21279.
Activates lymph node 3412.
Activates mastocytes 21279.
Activates nerve 4873.
Activates neutrophil granulocytes 21279.
Activates plasminogen 17194.
Acts against hepatic adipose infiltration 2318, 13823.
Acts against hepatic adipose infiltration, removes fat from liver of fatty infiltration 19087.
Acute toxicity 2247, 3712, 13794.
Adenosine A₁ receptor partial agonist, the first nonnucleoside adenosine receptor agonist not structurally related to adenosine 8754.
Adenyl cyclase inhibitor 12420.
Adrenal cortex hormoneoid 8841, 8846.
Adrenergic β -receptor blocker 18180.
Adrenergic antagonist 1048, 7024, 11344, 16439.
Adrenaline α_1 - and α_2 -receptor agonist 2303.
Adrenergic α_1 -receptor antagonist 1041.
Adrenergic α -receptor blocker 6517, 7243, 22818, 22820.
Adrenergic α - and β -receptor agonist 6815, 18024.
Adrenergic receptor blocker 7252, 19386.
Affinity to dopamine-D₂-receptor 5308.
Affinity to nAChR 2484, 2621, 2622, 4868, 4869, 7842, 7843.
Against African sleeping sickness 1141, 1145, 1147.
Against neurovaccine 20490.
Aids in generation of neuroglia 1853.
Alarm pheromone of insect 15688.
Aldoketomutase I inhibitor 2102.
Aldose reductase inhibitor 61, 85, 466, 491, 497, 580, 664, 1476, 1491, 1492, 1492, 1499, 1502, 1623, 1928, 2044, 2380, 2920, 2921, 3600, 3602, 3609, 3610, 3674, 3742, 3744, 3745, 4627, 4628, 6031, 6453, 6643, 6769, 7278, 7283, 7284, 7802, 8925, 9331, 9456, 9458, 10351, 10887, 11198, 11505, 11642, 11666, 11703, 11897, 12020, 12083, 12714, 12987, 13137, 13145, 13149, 13315, 13502, 14224, 14971, 15038, 15147, 15148, 15149, 15150, 15151, 15170, 15184, 15286, 15319, 16726, 16729, 16851, 16931, 16933, 17097, 17409, 17415,

- 18004, 18005, 18317, 18317, 18345, 18351, 18368, 18378, 18411, 19087, 19087, 19201, 19618, 20102, 21053, 21097, 21362.
- Aldose reductase inhibitor inactive** 1621, 19425, 19426, 20556.
- Algicidal (*Oscillatoria perornata*)** 8985, 19077, 19078.
- Algicidal (*Raphidocelis subcapitata*)** 7049, 7161, 12409, 14405, 14408.
- Algicidal (*Selenastrum capricornutum*)** 8985, 19077, 19078.
- Alkaline phosphatase inhibitor** 2208, 3063.
- Alkaline phosphatase promoter** 2331.
- Allelopathil agent, produced from walnut tree *Juglans regia*** 11903.
- Allergen** 62, 2890, 3611, 9700, 14971, 16440, 16598, 17828, 17853, 18679, 22104, 22105.
- Alluring action (male gamete of *Allomyces*)** 19976.
- γ -Aminobutyric acid antagonist** 642.
- AMV-reverse transcriptase inhibitor** 11703, 21913.
- Amyloglucosidase inhibitor** 2792, 7437.
- An essential amino acid for children** 9569.
- Analgesic** 304, 554, 669, 1012, 1021, 1094, 1097, 1178, 1283, 1287, 1667, 2214, 2247, 2303, 2550, 2737, 2738, 2739, 2887, 3141, 3152, 3204, 3218, 3498, 3689, 3693, 3712, 3885, 3907, 3935, 3937, 4080, 4103, 4550, 4645, 4685, 4741, 4745, 4771, 4993, 5108, 5358, 5359, 5417, 6529, 6708, 6767, 7441, 7481, 7665, 7707, 7714, 7800, 7996, 8083, 8150, 8151, 8156, 8170, 8257, 8273, 8276, 8307, 8428, 8965, 9187, 9238, 9661, 10875, 10887, 11259, 11260, 11580, 11734, 11741, 12510, 12608, 12916, 12916, 13606, 13630, 13774, 13776, 13794, 14184, 14896, 14897, 14981, 15449, 15843, 16451, 16525, 16532, 16555, 16803, 16966, 17042, 17958, 19081, 19184, 19196, 19198, 19200, 19473, 19540, 19922, 19955, 20002, 20141, 20307, 20324, 20444, 20509, 20569, 20578, 21077, 21206, 21234, 21245, 21292, 21366, 21887, 21955, 22384, 22562, 22602, 22818, 22938, 23004.
- Androgen** 1169, 21022.
- Anesthetic** 2113, 2716, 3278, 4353, 5199, 6745, 9553, 13774, 13796, 13797, 13798, 14981, 21292, 23003.
- Anesthetic antagonist** 3079.
- Angiogenesis enhancer** 19202.
- Angiogenesis inhibitor** 2208, 5047, 5910, 11505, 13391, 16183, 17717, 20900, 20901, 21709.
- Angiogenesis inhibitor inactive** 6162, 9564, 10751, 12448, 21856.
- Anorexic** 3327, 15789.
- Antagonist to body temperature reduction caused by 5-HT** 19846.
- Antagonist to muscle rigidity** 20732.
- Antagonizes antibacterial action of paraxin** 3118.
- Antemetic** 8395, 19846, 21059, 23003.
- Anthelmintic** 139, 759, 762, 834, 936, 1319, 1475, 1654, 1658, 1779, 1798, 1842, 1895, 1897, 2050, 2550, 3231, 3598, 3760, 3767, 3841, 4234, 4317, 4329, 5251, 5502, 5648, 6460, 6550, 6767, 7481, 7798, 7809, 8312, 9288, 9704, 11203, 12221, 13559, 14728, 15131, 15485, 15486, 15882, 16085, 16584, 16770, 16789, 18094, 18299, 18452, 18546, 18940, 19101, 19313, 19314, 20240, 21350, 21360, 21448, 22332, 22382.
- Anthelmintic (amoeba)** 14728.
- Anthelmintic (ants)** 18293.
- Anthelmintic (ascarid)** 762, 8312, 11203, 16770, 18452, 21448.
- Anthelmintic (*Ascaris vermicularis*)** 18299.
- Anthelmintic (*Caenorhabditis elegans*)** 1319, 20240.
- Anthelmintic (dwarf tapeworm)** 6460.
- Anthelmintic (hookworm)** 1895, 6460.
- Anthelmintic (liver flukes)** 16789.
- Anthelmintic (tapeworm)** 762, 1654, 1895, 6767, 9704, 16789.
- Anthelmintic (termites)** 5188, 6015, 9857, 14144.
- Anthelmintic (*Trypanosoma cruzi*)** 16085.
- Antiacetylcholine activity** 17007.
- Anti-acne agent** 2056.
- Anti-addictive** 4080.
- Anti-adrenaline** 5707, 11851, 18623, 22921.
- Antiallergic** 892, 893, 983, 1836, 1837, 1838, 2102, 2106, 2687, 3412, 4097, 4417, 5415, 5430, 5722, 6105, 6853, 7054, 7924, 8095, 8297, 8841, 8846, 11095, 12683, 12766, 12767, 12891, 13137, 14995, 16268, 16269, 16525, 18643, 18790, 21206, 21356, 21993, 21994, 22350.
- Antiallergic and anti-inflammatory** 23, 3602.
- Antiallergic β -Hexosaminidase inhibitor** 2165, 2456, 2508, 5905, 9099, 9100, 9102, 9846, 9848, 13909, 13910, 14154.
- Antiamebic** 576, 774, 777, 2615, 2660, 2665, 2666, 2667, 2668, 2670, 2671, 2674, 2684, 3218, 3400, 5436, 6772, 8047, 8509, 11203, 12347, 17862, 18095, 18627, 19414, 19900, 22098, 22146.
- Anti-amnesic** 4568.
- Anti-androgenic** 4039, 4040, 4041, 4042, 7521, 10960, 12490, 12491, 12493, 12496, 16358.
- Anti-androgenic inactive** 16498.
- Antianemic** 11882.
- Anti-apoptosis** 251, 580, 1181, 2547, 5314, 18192.
- Antiasthmatic** 663, 957, 1162, 1628, 1840, 1903, 2797, 3235, 3237, 3689, 5067, 5763, 6815, 7481, 7924, 8095, 8404, 9646, 11507, 12438, 14395, 15370, 17456, 17472, 17983, 18219, 18317, 19540, 20077, 20137, 20254, 20992, 20995, 21312.
- Anti-atropine** 9224.
- Antibacterial inactive summary index** 569, 1215, 1217, 1222, 1617, 1635, 1636, 1637, 1646, 1647, 1764, 2590, 2624, 2945, 2990, 2991, 2998, 3004, 3908, 4035, 4128, 4891, 4985, 5925, 5926, 6065, 6809, 6810, 7044, 7313, 7315, 7316, 8576, 8579, 8580, 9223, 9225, 9518, 9857, 10629, 11071, 11078, 11079, 11086, 11258, 11485, 11570, 12310, 12511, 12572, 12615, 12616, 13259, 13637, 14729, 14731, 14789, 14915, 15118, 15583, 15584, 15585, 15586, 15588, 15589, 15590, 15591, 15592, 15916, 18673, 19308, 19349, 19350, 19428, 19429, 19589, 19591, 19594, 19595, 19999, 20377, 22634, 22777, 22962.
- Antibacterial inactive, 13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 7313, 7315, 7316.
- Antibacterial inactive, *Alteromonas* sp.** 2624, 12616.
- Antibacterial inactive, *Azobacter beijerinckii*** 11485, 12616.
- Antibacterial inactive, *Bacillus brevis*** 8576, 8579, 8580.
- Antibacterial inactive, *Bacillus megaterium*** 15518.
- Antibacterial inactive, *Bacillus subtilis*** 1646, 1647, 1764, 3004, 8576, 8579, 8580, 10629, 13259, 19428, 19429.
- Antibacterial inactive, *Chromobacterium violaceum*** 11258.
- Antibacterial inactive, *Clostridium fallax*** 11570, 12615.
- Antibacterial inactive, *Clostridium novyi*** 11570, 12615.
- Antibacterial inactive, *Clostridium sordellii*** 11570, 12615.

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Antibacterial inactive, *Halococcus* sp. 2624, 11485, 12572, 12616.
Antibacterial inactive, *Helicobacter pylori* NCTC11637 strain 4035.
Antibacterial inactive, *Helicobacter pylori* NCTC11916 strain 4035.
Antibacterial inactive, *Helicobacter pylori* OCO1 strain 4035.
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Antibacterial inactive, MDR *Staphylococcus aureus* SA-1199-B strain 4985, 9518, 15916.
Antibacterial inactive, MDR *Staphylococcus aureus* XU212 strain 4985, 9518, 15916.
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Antibacterial inactive, methicillin-sensitive *Staphylococcus aureus* MSSA 12310.
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Antibacterial inactive, *Mycobacterium smegmatis* 1646, 1647.
Antibacterial inactive, *Mycobacterium tuberculosis* 6809, 6810, 14729, 14731, 14915, 15118, 19999, 20377, 22777.
Antibacterial inactive, *Pseudomonas aeruginosa* 569, 1635, 1636, 1637, 14789.
Antibacterial inactive, *Pseudomonas aeruginosa* 569, 1635, 1636, 1637, 14789.
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Antibacterial inactive, *Shigella flexneri* 11570, 12615.
Antibacterial inactive, *Staphylococcus aureus* 569, 1635, 1636, 1637, 1646, 1647, 1764, 3004, 9857, 10629, 11086, 13259, 19349, 19350, 19428, 19429, 19589, 19591, 19594, 19595, 22634.
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Antibacterial inactive, *Vibrio cholerae* 11570, 12615.
Antibacterial inactive, *Vibrio vulnificus* 11570, 12615.
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- Antibacterial, α -hemolytic streptococcus** 17602.
- Antibacterial, 10 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, 11 kinds of pathogenic bacteria** 7924.
- Antibacterial, 12 strains of molds** 16555.
- Antibacterial, 13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 7312, 7314.
- Antibacterial, 15 strains of dysentery** 13606.
- Antibacterial, 18 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 22593, 5279, 22594, 22592.
- Antibacterial, 30 hmn pathogenic bacteria, in which 8/30 effective** 16966.
- Antibacterial, 30 kinds of pathogenic bacteria** 20575.
- Antibacterial, 40 types of bacteria** 22499.
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- Antibacterial, 8 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, acid-fast bacteria** 7323, 9631, 14454.
- Antibacterial, aflatoxin B₁** 17028.
- Antibacterial, *Alcaligenes aquamarinus*** 2624, 12616.
- Antibacterial, *Alteromonas* sp.** 11485, 12572.
- Antibacterial, antipyretic** 15337.
- Antibacterial, *Aspergillus niger*** 1244, 1250, 1252, 2844, 5550, 15298, 15370, 20390.
- Antibacterial, *Azomonas agilis*** 2624, 11485, 12572, 12616.
- Antibacterial, *Azotobacter beijerinckii*** 2624, 12572.
- Antibacterial, *Babesia gibsoni*** 14342, 14340, 14341, 14346.
- Antibacterial, *Bacillus anthracis*** 967, 9678, 18759.
- Antibacterial, *Bacillus brevis*** 10732.
- Antibacterial, *Bacillus cereus*** 143, 207, 218, 589, 755, 756, 2591, 2592, 2593, 3368, 6049, 6065, 7707, 7756, 7767, 9678, 9924, 10159, 10567, 11262, 11263, 11264, 14789, 17862, 21830, 22818.
- Antibacterial, *Bacillus cereus* ATCC11778 strain** 10484, 14592.
- Antibacterial, *Bacillus coagulans*** 143, 9924.
- Antibacterial, *Bacillus coli*** 51, 123, 515, 589, 663, 957, 1016, 1179, 1244, 1250, 1252, 2168, 2244, 2283, 2539, 2624, 2844, 3148, 3157, 3158, 3186, 3452, 3962, 4140, 4203, 4241, 4243, 4645, 4840, 5161, 5235, 5272, 5273, 5540, 5541, 5542, 5550, 5682, 5763, 6427, 6429, 6430, 6735, 6776, 6973, 7205, 7305, 7307, 7767, 7883, 8136, 8278, 8456, 8968, 9596, 9788, 10104, 10159, 10567, 10733, 10819, 11259, 11260, 11392, 11434, 11485, 11570, 11777, 11778, 11779, 12537, 12572, 12616, 12957, 12958, 13107, 13239, 13398, 13874, 13876, 14255, 14815, 15170, 15279, 15286, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15885, 16442, 16532, 16545, 16555, 17018, 17019, 17048, 17247, 17528, 18071, 18220, 18221, 18547, 19590, 19592, 19593, 19707, 19819, 20018, 20019, 20390, 20686, 20687, 20697, 20699, 20700, 20701, 20702, 21251, 21257, 21269, 21270, 22045, 22195, 22270, 22282, 22496, 22667.
- Antibacterial, *Bacillus coli* ATCC11775 strain** 10484, 14592.
- Antibacterial, *Bacillus coli* ATCC25922 strain** 3689, 4135.
- Antibacterial, *Bacillus coli* NIHJ JC-2 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Bacillus coli* O157:H7 ATCC43894 strain** 3689, 4135.
- Antibacterial, *Bacillus diphtheriae*** 515, 967, 1178, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4832, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9678, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 18759, 20390, 22282, 22496.
- Antibacterial, *Bacillus dysenteriae*** 967, 6776, 7441, 7942, 8095, 8968, 13137, 14971, 15170, 15279, 15286, 16555, 17247, 18759, 19574, 19575, 19819, 20444, 21251, 21269, 21270.
- Antibacterial, *Bacillus fusiformis*** 8405.
- Antibacterial, *Bacillus globisporus*** 15910, 18097.
- Antibacterial, *Bacillus influenzae*** 3615, 6776.
- Antibacterial, *Lactobacillus* spp.** 16080.
- Antibacterial, *Bacillus lactis*** 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 22496.

- Antibacterial, *Bacillus megaterium* 12501, 15519.
- Antibacterial, *Bacillus mycoides* 14829, 15039, 21251.
- Antibacterial, *Bacillus paratyphosus* 967, 6776, 6921, 18759.
- Antibacterial, *Bacillus paratyphosus* A 8095.
- Antibacterial, *Bacillus pertussis* 22282.
- Antibacterial, *Bacillus pumilus* 14789.
- Antibacterial, *Bacillus pyocyaneus* 3148, 4645, 5682, 5763, 6776, 8095, 8334, 10351, 10819, 11736, 13137, 15910, 17247, 17528, 17696, 19148, 19819, 20444, 21251, 21269, 21270, 22045.
- Antibacterial, *Bacillus pyocyaneus* ATCC27853 strain 3689, 4135, 20686, 20687.
- Antibacterial, *Bacillus septicus* 21251, 21269, 21270.
- Antibacterial, *Bacillus sonne* 16770.
- Antibacterial, *Bacillus* sp. 18868, 22059.
- Antibacterial, *Bacillus sphaericus* 99, 6263, 10748, 11258, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Bacillus subtilis* 50, 51, 53, 99, 123, 143, 207, 218, 515, 901, 957, 967, 1244, 1250, 1252, 1645, 1648, 2168, 2244, 2283, 2539, 2584, 2844, 3004, 3157, 3186, 3463, 3472, 3474, 4048, 4243, 4243, 4422, 4604, 4840, 4923, 5214, 5235, 5272, 5273, 5522, 5540, 5541, 5542, 5550, 5747, 5959, 6238, 6263, 6303, 6361, 6427, 6429, 6430, 6776, 6973, 7178, 7205, 7305, 7306, 7307, 7707, 7756, 7764, 7767, 7883, 8136, 8278, 8456, 8672, 8833, 9288, 9321, 9322, 9788, 9924, 10104, 10732, 10733, 10748, 11056, 11258, 11269, 11321, 11392, 11434, 11751, 11777, 11778, 11779, 12334, 12380, 12389, 12766, 12767, 12771, 13107, 13109, 13137, 13195, 13196, 13398, 13637, 13874, 13876, 14170, 14680, 14789, 14829, 15039, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15489, 15506, 15561, 15939, 16275, 16359, 16429, 16532, 16545, 16741, 16742, 16743, 16744, 16745, 16747, 16748, 16749, 16799, 16802, 17018, 17019, 17048, 17371, 17403, 17430, 17431, 17432, 17486, 17487, 17488, 17489, 17491, 18071, 18212, 18213, 18214, 18759, 19257, 19259, 19574, 19575, 19707, 20093, 20390, 20697, 20699, 20700, 20701, 20702, 20968, 21022, 21034, 22059, 22195, 22239, 22270, 22282, 22496, 22667.
- Antibacterial, *Bacillus subtilis* 6633 strain 3158.
- Antibacterial, *Bacillus subtilis* ATCC1633 strain 13607.
- Antibacterial, *Bacillus subtilis* H17 strain 15858, 15859, 15860.
- Antibacterial, *Bacillus subtilis* IFO3134 strain 7792, 11811, 12321, 12322.
- Antibacterial, *Bacillus subtilis* M45 strain 15858, 15859, 15860.
- Antibacterial, *Bacillus termo* 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 5763, 6973, 7521, 9788, 10733, 13137, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 16770, 20390, 20444, 21251, 21269, 21270, 22282, 22496.
- Antibacterial, *Bacillus termo* I 12537, 20578.
- Antibacterial, *Bacillus thuringiensis* 20992.
- Antibacterial, *Bacillus typhosus* 3452, 3767, 3768, 6921, 8095, 13137, 14971, 15170, 15279, 15286, 16770, 18270, 18759, 19819, 20444, 22815.
- Antibacterial, bacteria on skin surface 8081.
- Antibacterial, broad spectrum 4460, 11851, 11903, 16261, 22774.
- Antibacterial, broad spectrum and low toxicity 18270.
- Antibacterial, *Chromobacterium violaceum* 99, 6263, 6735, 10748, 11570, 12615, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Citrobacter freundii* ATCC8090 strain 3689, 4135.
- Antibacterial, *Clostridium cellobioparum* 6735, 11570, 12615.
- Antibacterial, *Clostridium fallax* 6735.
- Antibacterial, *Clostridium novyi* 6735.
- Antibacterial, *Clostridium sordellii* 6735.
- Antibacterial, *Coccus catarrhal* 3615, 6776, 20444, 13137.
- Antibacterial, *Coccus* spp. 11747.
- Antibacterial, *Cochliobolus miyabeanus* 15370.
- Antibacterial, cooperates with berberine to inhibit *Staphylococcus aureus* 8841.
- Antibacterial, *Corynebacterium accolens* 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- Antibacterial, *Corynebacterium acnes* 10, 10351.
- Antibacterial, *Corynebacterium betae* 5894, 6032.
- Antibacterial, *Corynebacterium fascians* 5894, 6032, 18219.
- Antibacterial, *Corynebacterium hoffmanii* 16799, 16800, 16802.
- Antibacterial, *Cryptococcus neoformans* 10565.
- Antibacterial, *Cryptococcus neoformans* ATCC90112 strain 10484, 14592.
- Antibacterial, cytochrome C reductase inhibitor 7015.
- Antibacterial, *Diplococcus catarrhal* 12843.
- Antibacterial, *Diplococcus pneumoniae* 3158, 3615, 5763, 9678, 12334, 12843, 13137, 14454, 14531, 15337, 15561, 17283, 17456, 17862, 20061, 22282.
- Antibacterial, *Enterobacter cloacae* 5613, 7278, 8081, 8959, 13651, 13652.
- Antibacterial, *Enterobacter cloacae* ATCC23350 strain 3689, 4135.
- Antibacterial, *Enterococci* sp. (VRE) 9393.
- Antibacterial, *Enterococcus faecalis* 5747, 7764.
- Antibacterial, *Enterococcus faecalis* 11268 strain 13811.
- Antibacterial, *Enterococcus faecalis* 1528(vanA) strain 2680, 2681, 2682.
- Antibacterial, *Enterococcus faecalis* 18292 strain 6018, 6020, 13469, 13811.
- Antibacterial, *Enterococcus faecalis* 19250 strain 6018, 6020, 13469, 13811.
- Antibacterial, *Enterococcus faecalis* ATCC21212 strain 7792, 11811, 12321, 12322.
- Antibacterial, *Enterococcus faecalis* ATCC29212 strain 10484, 14592.
- Antibacterial, *Enterococcus faecalis* ATCC33186 strain 3689, 4135.
- Antibacterial, *Enterococcus faecalis* JCM7783 strain (VSE) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecalis* JU1782 (VRE, VanB) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecalis* JU1856 (VRE, VanA) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.

- Antibacterial, *Enterococcus faecium* 5** 13811.
- Antibacterial, *Enterococcus faecium* JCM5804 (VSE)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecium* JU1777 (VRE, VanB)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecium* JU1858 (VRE, VanA)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus gallinarum* CDC-42 strain** 3689, 4135.
- Antibacterial, *Enterococcus gallinarum* JU2786 (VRE, VanC)** 3453.
- Antibacterial, *Enterococcus gallinarum* JU2786 strain (VRE, VanC)** 847, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus* sp.** 18270, 22815.
- Antibacterial, *Enteromorpha cloacae*** 15170, 15184, 18305, 18411, 18679, 18857, 18859.
- Antibacterial, *Erwinia amylovora*** 2624, 11485, 12572, 12616.
- Antibacterial, *Erwinia carotovora*** 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- Antibacterial, *Erwinia carotovora* var. *carotovora*** 18219.
- Antibacterial, *Escherichia coli*** 901, 1178, 4471, 5522, 5700, 5747, 5959, 6238, 7521, 7764, 13195, 13196, 13651, 13652, 14170, 18219, 20093, 21022, 21034.
- Antibacterial, *Escherichia coli* SG458 strain** 2680, 2681, 2682.
- Antibacterial, *Escherichia* sp.** 20578.
- Antibacterial, *Flavobacterium helmiphilum*** 6735, 11570, 12615.
- Antibacterial, *Fusobacterium nucleatum*** 2303, 3055, 3057, 3058, 6366, 9702, 11348, 14567, 19985, 21356.
- Antibacterial, gram-negative bacteria** 675, 2294, 3745, 4837, 7323, 9631, 10751, 10883, 14083, 14454, 14728, 16183, 17009, 17489, 17570, 17571, 17870, 22270.
- Antibacterial, gram-positive bacteria** 675, 2294, 3588, 3633, 3745, 4837, 5789, 7221, 7323, 9570, 9869, 10751, 10883, 11092, 11455, 13109, 14083, 14454, 14728, 15039, 15652, 16183, 17009, 17489, 17570, 17571, 17870, 19468, 22239, 22270, 22321, 22596, 22704, 23014.
- Antibacterial, gram-positive bacteria (inactive for gram-negative bacteria)** 7015.
- Antibacterial, *Helicobacter pylori* NCTC11637 strain** 13643, 16079, 21765.
- Antibacterial, *Helicobacter pylori* NCTC11916 strain** 13643, 16079, 21765.
- Antibacterial, *Helicobacter pylori* OCO1 strain** 13643, 16079, 21765.
- Antibacterial, hemolytic streptococcus** 3452, 8967, 10736, 20686, 20687, 22282.
- Antibacterial, hemolytic β -Streptococcus** 3158, 11259, 11260, 15337, 15561.
- Antibacterial, *Hemophilus influenzae*** 5763.
- Antibacterial, hmn *Mycobacterium tuberculosis*** 22282.
- Antibacterial, hmn *Mycobacterium tuberculosis* H37Rv strain** 4292, 5722, 6605, 10736.
- Antibacterial, enhances antibacterial action of phage by over 100 times** 22774.
- Antibacterial, inhibits colony formation of *X. campestris* pv. *oryzae*** 7121, 7154, 7174, 7181, 7185.
- Antibacterial, *Klebsiella aerogenes*** 99, 6263, 10748, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Klebsiella pneumoniae*** 3962, 7521, 8548, 13651, 13652, 14454, 14815, 15885, 16799, 16800, 17528, 19593, 20018, 20019, 21251, 21253, 21257, 21269, 21270.
- Antibacterial, *Klebsiella pneumoniae*** 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 22496.
- Antibacterial, *Klebsiella pneumoniae* ATCC13883 strain** 3689, 4135.
- Antibacterial, *Klebsiella pneumoniae* NCTC9633 strain** 10484, 14592.
- Antibacterial, lactic acid bacteria** 19819.
- Antibacterial, *Listeria monocytogenes*** 5747, 7764.
- Antibacterial, main effective component of *Euphorbia humifusa* (DI JIN CAO)** 22195.
- Antibacterial, *Micrococcus epidermidis*** 2081, 4362, 4363.
- Antibacterial, *Micrococcus kristinae*** 14789.
- Antibacterial, *Micrococcus luteus*** 143, 2081, 3368, 3472, 3473, 3962, 9924, 14815, 15506, 17430, 17431, 17432, 17862, 18269, 19592, 19593, 19614, 21830.
- Antibacterial, *Micrococcus luteus* ATCC10240 strain** 2680, 2681, 2682.
- Antibacterial, *Micrococcus lysodeikticus*** 53, 4243.
- Antibacterial, *Micrococcus lysodicklycus*** 16799, 16800.
- Antibacterial, *Micrococcus* sp.** 22818.
- Antibacterial, *Microsporium* sp.** 2081.
- Antibacterial, microzyme** 12771, 22270.
- Antibacterial, *Mucor mucedo*** 50.
- Antibacterial, mutational *Streptococcus*** 8833.
- Antibacterial, *Mycobacterium intracellulare*** 19174.
- Antibacterial, *Mycobacterium leprae*** 1293, 3485, 8955, 9697.
- Antibacterial, *Mycobacterium smegmatis*** 1645, 1648, 3463, 4923, 5100, 5572, 6752, 8493, 8548, 9441, 9597, 11321, 11751, 12380, 12389, 15881, 15885, 16439, 16816, 17049, 18102, 18831, 19174, 21235, 21237, 21251, 21257, 21260, 21261, 21266, 21268, 21269, 21270.
- Antibacterial, *Mycobacterium smegmatis* ATCC607 strain** 8490, 8499, 9557, 9558, 10149.
- Antibacterial, *Mycobacterium* sp.** 1769, 14028, 14029, 14603, 16488, 17924, 17926, 21239, 21253.
- Antibacterial, *Mycobacterium tuberculosis*** 24, 1178, 1179, 1277, 1643, 1644, 2244, 2300, 2331, 2334, 2334, 2619, 2619, 3412, 3708, 3791, 3799, 3940, 3941, 4048, 4837, 5064, 5134, 5926, 6298, 6518, 6629, 6801, 6901, 7413, 7512, 7768, 7897, 7897, 7907, 8219, 8221, 8306, 8403, 9678, 9854, 10126, 10208, 10383, 10652, 10747, 10820, 11607, 11736, 12163, 12228, 12453, 12454, 12489, 13109, 13264, 13481, 13485, 13486, 13487, 13488, 13492, 13493, 13494, 13495, 13979, 14216, 14217, 14217, 14758, 14840, 14842, 15027, 15715, 15737, 15800, 15881, 15939, 16050, 16439, 16912, 16913, 16914, 16915, 17375, 17568, 17861, 18011, 18086, 19312, 19533, 19777, 19827, 20061, 20511, 20679, 20680, 20681, 20717, 21206, 21236, 21503, 21589, 21776, 21866, 22080, 22270, 22282, 22774.
- Antibacterial, *Mycobacterium tuberculosis* 607 strain** 17570.
- Antibacterial, *Mycobacterium tuberculosis* avium isoniazid-resistant strain** 15939.

- Antibacterial, *Mycobacterium tuberculosis* H37Rv strain** 4632, 4633, 4634, 6302, 8085, 13638.
- Antibacterial, *Mycobacterium vaccae* IMET10670 strain** 2680, 2681, 2682.
- Antibacterial, *Mycobacterium xenopi*** 19174.
- Antibacterial, *Neisseria* sp.** 8095.
- Antibacterial, no explanation of bacterial species** 126, 370, 585, 595, 597, 598, 664, 754, 762, 783, 822, 834, 920, 1080, 1159, 1348, 1476, 1745, 1842, 1845, 1897, 1904, 1990, 2013, 2034, 2106, 2284, 2304, 2309, 2376, 2594, 2678, 2887, 3094, 3231, 3294, 3308, 3498, 3498, 3502, 3598, 3695, 4005, 4029, 4348, 4349, 4398, 4536, 4976, 5152, 5445, 5524, 5694, 5858, 6040, 6261, 6853, 7063, 7385, 7399, 7416, 7481, 7703, 7768, 7802, 7809, 7926, 7944, 7996, 8272, 8275, 8307, 8591, 8760, 8982, 9456, 9720, 9740, 9877, 11149, 11327, 11386, 11423, 11526, 11866, 11943, 12020, 12438, 12849, 14086, 14121, 14705, 14850, 15221, 15335, 15412, 15436, 15633, 15849, 15888, 16268, 16269, 16675, 16711, 16978, 17047, 17168, 17567, 17859, 17983, 18317, 18376, 18643, 18849, 19078, 19306, 19307, 19469, 19471, 19511, 19542, 19904, 19905, 19906, 19907, 19912, 19933, 19934, 19935, 20044, 20135, 20166, 20167, 20307, 20566, 20670, 20685, 21018, 21328, 21333, 21360, 21486, 21577, 22332, 22420, 22700, 22755, 22781, 22965, 22970, 22972, 23002.
- Antibacterial, original hyphomycete of blood red trichophyta** 3122.
- Antibacterial, pathogenic bacteria** 12420, 22498.
- Antibacterial, pathogenic bacteria in mouth** 13315.
- Antibacterial, *Penicillium aureus*** 675.
- Antibacterial, photo-activated antibacterial** 7830, 9226, 12254, 20002.
- Antibacterial, plant pathogenic bacteria** 5894, 6032, 7924, 16666, 18219.
- Antibacterial, *Proteus mirabilis*** 6735, 11570, 12615.
- Antibacterial, *Proteus mirabilis* IFO3849 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Proteus vulgare*** 21052.
- Antibacterial, *Proteus vulgaris*** 8456, 10104, 13398, 16442, 17489, 20018, 20019.
- Antibacterial, *Pseudomonas aeruginosa*** 207, 218, 2244, 2283, 3472, 4203, 6065, 7756, 7767, 10565, 10567, 11777, 11778, 11779, 16600.
- Antibacterial, *Pseudomonas aeruginosa* (*Bacillus pyocyaneus*)** 99, 6263, 7707, 10748, 11258, 13651, 13652, 16275, 16799, 18212, 18213.
- Antibacterial, *Pseudomonas cepacia*** 18219.
- Antibacterial, *Pseudomonas fluorescens*** 99.
- Antibacterial, *Pseudomonas maltophilia*** 5613, 7278, 8081, 8959, 10887, 11642, 15170, 15184, 18219, 18305, 18411, 18679, 18857, 18859, 20578.
- Antibacterial, *Pseudomonas* sp.** 17489.
- Antibacterial, *Pseudomonas syringae*** 6361.
- Antibacterial, *Pyricularia oryzae*** 15370, 17489, 19257, 19259.
- Antibacterial, *Ristella melaninigenica*** 21356.
- Antibacterial, *S. thermophilus*** 10351.
- Antibacterial, *Saccharomyces cerevisiae*** 15869, 15870.
- Antibacterial, *Salmonella aertrycke*** 3026, 7178, 13041, 17272, 20018, 20019, 21251, 21269, 21270.
- Antibacterial, *Salmonella aertrycke* ATCC14028 strain** 3689, 4135.
- Antibacterial, *Salmonella aertrycke* IFO13245 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Salmonella enteritidis*** 5747, 7764.
- Antibacterial, *Salmonella gallinarum*** 15885, 21251.
- Antibacterial, *Salmonella paratyphi* A** 16799, 16800.
- Antibacterial, *Salmonella setubal*** 3962, 14815.
- Antibacterial, *Salmonella* sp.** 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 14829, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 20578, 22496.
- Antibacterial, *Salmonella typhi*** 16799, 16800.
- Antibacterial, *Sarcina citrea*** 21022, 21034.
- Antibacterial, *Sarcina lutea*** 6303, 12537, 20968.
- Antibacterial, *Sarcina lutea* NIHJ strain** 5214.
- Antibacterial, *Sarcina* sp.** 8095, 15489.
- Antibacterial, *Sclerotinia libertiana*** 50.
- Antibacterial, *Serratia marcescens*** 8968.
- Antibacterial, *Shigella flexneri*** 6735.
- Antibacterial, *Shigella flexneri*** 4645, 6735.
- Antibacterial, *Shigella shigae*** 1179, 7521.
- Antibacterial, *Shigella sonnei*** 5747, 7764.
- Antibacterial, *Shigella* sp.** 16770, 20578.
- Antibacterial, six *Bacillus*** 11747.
- Antibacterial, *Sporothrix* sp.** 16555.
- Antibacterial, *Staphylococcus albus*** 5763.
- Antibacterial, *Staphylococcus aureus*** 10, 50, 51, 53, 99, 143, 207, 218, 515, 663, 755, 756, 899, 909, 1016, 1179, 1244, 1250, 1252, 1645, 1648, 2081, 2081, 2081, 2168, 2244, 2283, 2380, 2509, 2539, 2590, 2844, 2945, 2990, 2991, 2998, 3004, 3026, 3096, 3153, 3157, 3186, 3243, 3452, 3463, 3472, 3490, 3511, 3767, 3768, 3962, 4055, 4203, 4241, 4243, 4243, 4292, 4362, 4363, 4471, 4604, 4645, 4840, 4923, 5161, 5235, 5272, 5273, 5540, 5541, 5542, 5550, 5682, 5700, 5722, 5747, 5763, 5959, 6065, 6238, 6263, 6302, 6427, 6429, 6430, 6752, 6757, 6758, 6776, 6921, 6973, 7205, 7305, 7306, 7307, 7413, 7521, 7707, 7736, 7756, 7764, 7767, 7829, 7883, 7927, 8095, 8095, 8136, 8278, 8314, 8333, 8456, 8548, 8672, 8708, 8709, 8833, 8967, 9288, 9441, 9547, 9678, 9788, 9924, 10104, 10351, 10565, 10567, 10664, 10665, 10733, 10736, 10748, 10819, 10826, 11056, 11071, 11078, 11079, 11258, 11259, 11260, 11321, 11392, 11434, 11736, 11751, 11777, 11778, 11779, 11849, 12228, 12335, 12380, 12389, 12537, 12573, 12764, 12766, 12767, 12771, 12843, 12957, 12958, 13107, 13109, 13137, 13195, 13196, 13398, 13428, 13429, 13637, 13651, 13652, 13874, 13876, 14170, 14255, 14256, 14531, 14680, 14789, 14815, 14971, 15039, 15170, 15279, 15286, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15728, 15869, 15870, 15872, 15881, 15885, 15910, 16119, 16183, 16264, 16275, 16429, 16439, 16442, 16532, 16545, 16555, 16597, 16598, 16600, 16741, 16742, 16743, 16744, 16745, 16747, 16748, 16749, 16770, 16799, 16800, 16802, 17018, 17019, 17048, 17049, 17247, 17272, 17283, 17361, 17362, 17363, 17371, 17456, 17486, 17487, 17488, 17489, 17491, 17602, 17696, 17777, 17862, 18071, 18097, 18102, 18212,

- 18213, 18219, 18269, 18270, 18547, 18759, 18868, 18972, 19174, 19257, 19259, 19574, 19575, 19593, 19614, 19819, 20018, 20019, 20093, 20137, 20390, 20444, 20687, 20697, 20699, 20700, 20701, 20702, 20968, 21052, 21239, 21257, 21266, 21269, 21270, 21362, 22190, 22191, 22239, 22270, 22380, 22496, 22667, 22759, 22815, 22818.
- Antibacterial, *Staphylococcus aureus* 17380 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 17547 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 17592 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 17728 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 18110 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 18268 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 209P strain** 3158, 5214, 6303, 13607, 18011.
- Antibacterial, *Staphylococcus aureus* 3012 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 414 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* ATCC13709 strain** 8490, 8493, 8499, 9557, 9558, 10149, 13941.
- Antibacterial, *Staphylococcus aureus* ATCC25923 penicillin-sensitive strain** 18674, 22759.
- Antibacterial, *Staphylococcus aureus* ATCC25923 strain** 2685, 3029, 3475, 3689, 4135, 4200, 4202, 5229, 6626, 7825, 8218, 8219, 8221, 11324, 11683, 12018, 12060, 13088, 13088, 13281, 13492, 14969, 16747, 16748, 16749, 16754, 19299, 19452, 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561, 20150, 20686, 20687.
- Antibacterial, *Staphylococcus aureus* ATCC6538 strain** 10484, 14592.
- Antibacterial, *Staphylococcus aureus* drug-resistant strain** 4292, 8968, 10736, 12335, 20687.
- Antibacterial, *Staphylococcus aureus* EMRSA-15 strain** 16747, 16748, 16749, 16754.
- Antibacterial, *Staphylococcus aureus* H114 strain** 2081.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant ATCC33591 strain** 5332, 5333.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant JCM2874 strain** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant SK1 strain** 2685, 3029, 3475, 4200, 4202, 5229, 6626, 7825, 8218, 8219, 8221, 11324, 11683, 12018, 12060, 13088, 13088, 13281, 13492, 14969, 18674, 19299, 19452, 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561, 20150, 22759.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant strain** 1135, 5276, 7354, 7355, 7356, 7357, 7358, 7792, 8218, 9393, 11811, 12321, 12322, 12597, 12766, 14967, 14970, 15587, 21132.
- Antibacterial, *Staphylococcus aureus* methicillin-sensitive strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant ATCC25923 strain** 21727.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant RN4220 strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant SA-1199-B strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant XU212 strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* RN4220 strain** 15939, 21727.
- Antibacterial, *Staphylococcus aureus* SA-1199B strain** 16747, 16748, 16749, 16754, 21727.
- Antibacterial, *Staphylococcus aureus* sensitive strain** 8968.
- Antibacterial, *Staphylococcus aureus* SG511 strain** 2680, 2681, 2682.
- Antibacterial, *Staphylococcus aureus* TPR27 strain** 5214, 6303.
- Antibacterial, *Staphylococcus aureus* XU-212 strain** 16747, 16748, 16749, 16754.
- Antibacterial, *Staphylococcus aureus* XU212(TetKmecA) strain** 21727.
- Antibacterial, *Staphylococcus epidermidis*** 589, 909, 2584, 2591, 2592, 2593, 3368, 3962, 6302, 8081, 10159, 10351, 11262, 11263, 11264, 13651, 13652, 14815, 17272, 17862, 19592, 19593, 21830.
- Antibacterial, *Staphylococcus epidermidis* 2515 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus epidermidis* 3112 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus epidermidis* ATCC12228 strain** 3689, 4135.
- Antibacterial, *Staphylococcus epidermidis* ATCC2223 strain** 14592, 10484.
- Antibacterial, *Staphylococcus epidermidis* IFO3762 strain** 11811, 12322, 12321, 7792.
- Antibacterial, *Staphylococcus epidermidis* TPR25 strain** 5214, 6303.
- Antibacterial, *Staphylococcus hemolyticus flavus*** 6921.
- Antibacterial, *Staphylococcus saprophyticus* 3010 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus simulans* 214 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus* sp.** 930, 967, 1178, 3052, 14829, 20489, 20578, 21251, 22080.
- Antibacterial, *Staphylococcus* spp.** 20732, 22270.
- Antibacterial, *Staphylococcus tetragenus*** 3511, 5161.
- Antibacterial, *Streptobacillus* sp.** 515, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 6973, 9788, 10733, 13874, 13876, 15297, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 22496.
- Antibacterial, *Streptococcus durans* 23** 13811.
- Antibacterial, *Streptococcus faecalis*** 3472, 3474, 7829, 12380, 12389, 15039, 15910, 16532, 16800, 16802, 20018, 20019, 21251, 21269, 21270.
- Antibacterial, *Streptococcus mutans*** 2303, 2509, 11348, 3057, 14567, 3055, 3058, 6366, 9702, 19985.
- Antibacterial, *Streptococcus mutans* ATCC25175 strain** 3689, 4135.
- Antibacterial, *Streptococcus pneumoniae*** 7413, 12228.
- Antibacterial, *Streptococcus pneumoniae*** 11259, 11260.
- Antibacterial, *Streptococcus pyogenes*** 16799, 16800, 17862.
- Antibacterial, *Streptococcus pyogenes* ATCC19615 strain** 3689, 4135.

- Antibacterial, *Streptococcus* sp.** 515, 967, 1178, 1244, 1250, 1252, 2844, 3052, 3157, 3158, 3186, 3511, 4840, 5161, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9596, 9788, 10733, 12771, 13388, 13874, 13876, 14154, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 18759, 20390, 22496.
- Antibacterial, *Streptococcus* var.** 10, 6178, 17696.
- Antibacterial, *Streptococcus varians*** 17862.
- Antibacterial, *Streptococcus viridans*** 11259, 11260, 16799, 16800.
- Antibacterial, *Streptomyces scabies*** 207, 218, 7707, 7756, 7767.
- Antibacterial, *Trichophyton* sp.** 2081.
- Antibacterial, used in treatment of skin diseases** 3122.
- Antibacterial, *Vibrio cholerae*** 5161, 6735.
- Antibacterial, *Vibrio parahaemolyticus*** 6735, 11570, 12615.
- Antibacterial, *Vibrio vulnificus*** 6735.
- Antibacterial, *Vibrio vulnificus* ATCC29307 strain** 3689, 4135.
- Antibacterial, vinegar organism** 19819.
- Antibacterial, α -*Streptococcus*** 3615, 5763, 6776, 8095, 12843, 17456.
- Antibacterial, β -*Streptococcus*** 16555, 17456, 17528.
- Antibiotic** 1179, 2063, 14968.
- Anti-caducity of plants** 22975.
- Anti-cancer-promoted activity** 7460.
- Anti-carcinogen, inhibits carcinogenic action of multiring aromatic hydrocarbons** 2298.
- Anti-carcinogenic** 2890, 18643.
- Anti-carcinogenic, inhibits TPA-stimulated 32 P-incorporation into the phospholipids of HeLa cells** 5377, 6424, 6425, 16922.
- Anticaries** 9631.
- Anti-Chagas' disease** 184, 1141, 1145, 1147, 3258.
- Anticholinergic** 1287, 1288, 2001, 2725, 2734, 2797, 6439, 7636, 8273, 10872, 11809, 12825, 17546, 18842, 19388, 20488, 21372.
- Anticoagulant** 126, 5858, 6040, 7063, 11414, 12766, 19469, 19471.
- Anticomplement activity** 3602, 10665, 13592, 17869, 18400, 18401, 18402, 18403, 20422, 20428, 20429.
- Anti-complication of diabetes** 11505.
- Anticonvulsant** 2791, 3079, 3318, 3588, 4536, 4936, 9184, 9223, 9330, 11077, 15370, 16532, 17451, 18623, 19111, 19737, 19738, 20002, 20509, 22270, 22336, 22346.
- Antidepressant** 10883, 10886, 11524, 17093, 17955, 22060.
- Antidiabetic** 12443, 12444, 22270.
- Antidiabetic** 920, 1618.
- Antidiarrheal** 759, 2303, 3308, 4421, 4921, 14933.
- Anti-diuretic** 6618, 13057, 22921.
- Antidote** 1039, 1275, 1845, 3412, 7381, 8761, 8785, 9818, 17347, 20444, 22269, 22562.
- Antidote (alcohol and venom)** 3412.
- Antidote (cobra-poisoning)** 9818, 20444.
- Antidote (diphacin poisoning)** 22562.
- Antidote (from poisoning by sulfhydryl enzyme)** 8785.
- Antidote (poisoning from anticholinergic)** 7381.
- Antidote (poisoning from barbital)** 17347.
- Antidyskinetic** 9092.
- anti-early-pregnancy** 1191.
- Anti-electroshock** 7996, 9330.
- Antiemetic** 8081, 10186, 10215, 10450, 10630, 12015, 19997.
- Anti-endotoxin** 9217.
- Anti-epilepsy** 6708.
- Antiestrogenic** 7768, 22937.
- Anti-exudation** 21282.
- Antifeedant** 3087, 9013, 9456, 11843, 11844, 11845, 16652, 16653, 19652, 19653, 19654, 19656, 19657.
- Anti-fertility agent** 3909, 4190, 6767, 7243, 7945, 8967, 10814, 13575, 15527, 16793, 17337, 17568, 17592, 18033, 19187, 22011, 22815.
- Antifibrinolysis** 2366, 2367, 5484, 6700, 2183.
- Antifibrogenic** 2779.
- Antifibrotic** 7441.
- Antifungal inactive summary index** 504, 589, 618, 1343, 1470, 2296, 2590, 2833, 2945, 2990, 2991, 2998, 3048, 3791, 3799, 3856, 3962, 4422, 4550, 4712, 4816, 5134, 5547, 5747, 6263, 6758, 7756, 7764, 8107, 8576, 8578, 8580, 8623, 8708, 8709, 8985, 9223, 9225, 9486, 9597, 9857, 10159, 10565, 10629, 10748, 11001, 11071, 11078, 11079, 11086, 11230, 11258, 11269, 11601, 12048, 13259, 13571, 13860, 14109, 14498, 14516, 14698, 14699, 14915, 14957, 14958, 14959, 15118, 15152, 15518, 15737, 15881, 16247, 16248, 16439, 16555, 18359, 18784, 19077, 19193, 19589, 19590, 19591, 19592, 19593, 19594, 19595, 19983, 20018, 20019, 20990, 21239, 21266, 21835, 22616, 22777.
- Antifungal inactive, *Aspergillus flavus* KCCM11453** 3048, 4550, 20990.
- Antifungal inactive, *Aspergillus fumigatus*** 1470, 11230.
- Antifungal inactive, *Aspergillus niger*** 7756.
- Antifungal inactive, *Blastoschyzomyces capitatus* KCCM50270** 4550, 20990.
- Antifungal inactive, *Candida albicans*** 589, 618, 2296, 3791, 3799, 3962, 4422, 5134, 5547, 5747, 6758, 7764, 8623, 9486, 9597, 10159, 10565, 10629, 11269, 13259, 13860, 14698, 14699, 14915, 15118, 15737, 15881, 16439, 16555, 19589, 19590, 19591, 19592, 19593, 19594, 19595, 19983, 20018, 20019, 21239, 21266, 21835, 22616, 22777.
- Antifungal inactive, *Candida albicans* 19** 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* 32** 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* ATCC2091** 8107, 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* DSY1024** 14109, 14498.
- Antifungal inactive, *Candida albicans* KCCM11282** 3048, 4550, 20990.
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- Antihistamine** 443, 1614, 1840, 2359, 2360, 2361, 2362, 3600, 3770, 3781, 3782, 3973, 4158, 4159, 4681, 4682, 4683, 4684, 5155, 6351, 7802, 8153, 8167, 8273, 9010, 11910, 11913, 14531, 15571, 17278, 19238, 19239, 19846, 19929, 20009, 20447, 21435, 21493, 22282, 22349, 22564, 22720.
- Antihistamine inactive** 16169.
- Anti-HIV inactive summary index** 930, 1030, 1473, 1665, 1666, 1699, 1713, 1718, 1725, 1728, 2303, 3096, 3097, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3159, 3159, 3498, 4189, 4376, 5062, 6072, 6149, 6910, 6911, 7504, 7777, 7788, 9444, 9451, 9885, 10163, 10597, 10688, 11968, 11969, 12861, 12862, 12863, 12864, 12865, 12868, 12871, 12872, 12929, 12932, 12933, 13867, 13869, 13871, 14483, 15929, 15966, 16342, 17309, 17983, 18053, 19284, 20407, 20408, 21056.
- Anti-HIV inactive, H9 lymphocytes** 930, 1665, 1666, 1699, 1713, 1718, 1725, 1728, 2303, 3498, 4189, 5062, 7777, 7788, 17983, 19284, 21056.
- Anti-HIV inactive, no explanation of HIV species** 3096, 3097, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3159, 3159, 9885, 11569, 13867, 13869, 13871, 17309.
- Anti-HIV summary index** 27, 112, 144, 145, 163, 483, 484, 485, 1467, 1483, 1494, 2223, 2527, 3309, 3518, 3600, 3829, 3831, 3861, 4214, 4215, 4216, 4839, 4957, 5269, 5303, 5414, 5515, 5789, 6008, 6090, 6609, 6909, 7251, 7742, 7743, 7744, 7745, 7746, 7788, 8185, 8189, 8246, 8551, 8554, 8804, 8822, 8833, 8844, 8846, 8914, 9449, 9535, 9543, 9546, 9928, 9929, 10473, 11029, 11490, 11525, 11843, 11844, 11845, 11846, 11847, 11992, 11993, 12011, 12019, 12020, 12046, 12093, 12479, 12573, 12766, 12782, 12860, 12930, 12931, 13137, 13315, 13369, 13431, 13518, 13865, 14004, 14027, 14201, 14206, 14356, 14831, 14995, 15169, 15249, 15420, 15570, 15627, 15806, 15850, 15851, 15852, 15853, 15854, 16290, 16304, 16314, 16344, 16352, 16587, 16652, 16653, 16836, 16999, 17000, 17001, 17187, 17958, 18202, 18228, 18294, 18317, 18340, 18354, 18362, 18363, 18395, 18624, 18662, 19182, 19472, 19479, 19480, 19484, 19487, 19498, 19499, 19629, 19652, 19653, 19654, 19655, 19656, 20088, 20109, 20476, 20477, 20499, 20975, 21233, 21324, 21327, 21381, 21382, 21493, 21724, 21990, 22208, 22270.
- Anti-HIV, a lead candidate** 5269.
- Anti-HIV, H9 lymphocytes** 27, 112, 2527, 3309, 3829, 3831, 5789, 6609, 7788, 9535, 11029, 13518, 15169, 15249, 19182, 21990, 22208.
- Anti-HIV, HIV-INInhibitor** 8554.
- Anti-HIV, HIV-RT inhibitor and HIV polyase inhibitor** 15570.
- Anti-HIV, HIV-RTinhibitor** 163, 5303, 9543, 13315, 13431, 18202, 18228, 18624, 19182, 20109, 21724.
- Anti-HIV, inhibits cell denaturalization affected by HIV** 14206.
- Anti-HIV, inhibits formation of giant-cell without cytotoxicity** 12782.
- Anti-HIV, inhibits HIV in early stage of its life cycle, inhibits the cell fusion and formation of plasmodia** 14831.
- Anti-HIV, inhibits HIV replication** 27, 2527, 3309, 3600, 3829, 3831, 5414, 5789, 7788, 9535, 11029, 12479, 13518, 15169, 15249, 19182, 21493, 21990, 22208.
- Anti-HIV, inhibits HIV-induced formation of giant-cells** 8844, 12766.
- Anti-HIV, MT-2 cell infected by HIV-IIIB virus** 6909.
- Anti-HIV, non-competitively inhibits enzymatic substrates** 13369.
- Anti-HIV-1** 483, 484, 485, 492, 1483, 1494, 3518, 4214, 4215, 4216, 4839, 5414, 6008, 6909, 7251, 8151, 8152, 8156, 8175, 8176, 8182, 8183, 8185, 8189, 8196, 8223, 8224, 8225, 8226, 8229, 8246, 9449, 9952, 11843, 11844, 11845, 11846, 11847, 12019, 12020, 12046, 12093, 12573, 12847, 12860, 12930, 12931, 12966, 12967, 12968, 14004, 14027, 14201, 15655, 16304, 16314, 16344, 16587, 16652, 16653, 16999, 17000, 17001, 17187, 17958, 18294, 18317, 18340, 18354, 18362, 18363, 18395, 18662, 18697, 19652, 19653, 19654, 19655, 19656, 20088, 20389, 20499, 20514, 21324, 21327, 21327, 21381, 21382.
- Anti-HIV-1 inactive** 930, 1030, 1473, 1665, 1666, 1699, 1713, 1718, 1725, 1728, 2303, 3498, 4189, 4376, 5062, 6072, 6149, 6910, 6911, 7504, 7777, 7788, 9444, 9451, 10163, 10597, 10688, 11968, 11969, 12861, 12862, 12863, 12864, 12865, 12868, 12871, 12872, 12929, 12932, 12933, 14483, 15929, 15966, 16342, 17983, 18053, 19284, 20407, 20408, 21056.
- Anti-HIV-1 inactive, H9 lymphocytes** 930, 1665, 1666, 1699, 1713, 1718, 1725, 1728, 2303, 3498, 4189, 5062, 7777, 7788, 17983, 19284, 21056.
- Anti-HIV-1 inactive, HIV-1 IN inhibitor inactive** 9444, 9451, 12861, 12862, 12863, 12864, 12865, 12871, 12872, 14483, 15929, 16342, 18053, 20407, 20408, 12868.
- Anti-HIV-1 inactive, HOG.R5 cells** 1473, 6910, 6911, 7504, 12929, 12932, 12933, 15966.
- Anti-HIV-1, , inhibits cytotoxic effect induced by HIV-1 in MT-4 cells** 8185, 8189.
- Anti-HIV-1, binds to chemokine receptor CCR5** 6008, 14004, 14027.
- Anti-HIV-1, CEM-SS cells infected by HIV-1** 17958.
- Anti-HIV-1, DDDP inhibitor** 12020, 18354, 4214, 4216, 18395, 12019, 20499, 18363, 18317, 12046, 20088, 16587, 16999, 17000, 17001, 18362, 12093, 21324, 21327, 4215.
- Anti-HIV-1, H9 lymphocytes** 16304, 16314.
- Anti-HIV-1, HIV-1 IN inhibitor** 12020, 18354, 18395, 12019, 18363, 18317, 12046, 20088, 16587, 16999, 17000, 17001, 18362, 12093, 21324, 21327, 9449, 16344, 12860, 12573.
- Anti-HIV-1, HIV-1 integrase inhibitor** 5414, 18340, 1483, 1494, 3518.
- Anti-HIV-1, HIV-1 protease inhibitor** 492, 8151, 8152, 8156, 8175, 8176, 8182, 8183, 8185, 8196, 12966, 12967, 12968, 18697.
- Anti-HIV-1, HIV-1 reverse transcriptase assay** 8223, 8224, 8225, 8226.
- Anti-HIV-1, HIV-1 reverse transcriptase highly selective inhibitor** 18662.
- Anti-HIV-1, HIV-1IIIB-induced MT-4 cells** 1483, 3518, 1494.
- Anti-HIV-1, HIV-1-induced cytopathic effect inhibitor** 483, 484, 485, 4839, 11843, 11844, 11845, 11846, 11847, 14201, 16652, 16653, 17187, 19652, 19653, 19654, 19655, 19656, 21381, 21382.
- Anti-HIV-1, HIV-RT inhibitor** 8246, 12020, 18354, 4214, 4216, 18395, 12019, 20499, 18363, 18317, 12046, 20088, 16587, 16999, 17000, 17001, 18362, 12093, 21324, 21327, 4215, 20389, 20514.

- Anti-HIV-1, inhibits HIV-1 replication** 6909, 12930, 12931, 16304, 16314.
- Anti-HIV-1, inhibits produce of viral antigen P24 and plasmodia** 17958.
- Anti-HIV-1, MT-4 cells** 483, 484, 485, 4839, 11843, 11844, 11845, 11846, 11847, 14201, 16652, 16653, 17187, 19652, 19653, 19654, 19655, 19656, 21381, 21382.
- Anti-HIV-1, RnaseH inhibitor** 12020, 4214, 4216, 20499, 4215.
- Anti-HIV-1, syncytium assay** 8229, 9952.
- Antihypercholesterolemic** 675, 891, 892, 894, 896, 1845, 2102, 2379, 2384, 2435, 2538, 3045, 3511, 4135, 4564, 4685, 5707, 6440, 6853, 7832, 7883, 7978, 8278, 8401, 8423, 8424, 8846, 9184, 9498, 11083, 11648, 12624, 12891, 13137, 15419, 15420, 15421, 15528, 16599, 17765, 18001, 18164, 18165, 18317, 18643, 18916, 19070, 19142, 19148, 19316, 19983, 20121, 20122, 20369, 22269, 22270, 22498, 22552, 22718.
- Antihypertensive** 80, 304, 554, 582, 631, 651, 783, 784, 824, 846, 899, 920, 983, 1048, 1275, 1293, 1476, 1497, 1613, 1769, 1866, 1935, 1948, 2039, 2106, 2284, 2300, 2303, 2309, 2318, 2977, 3002, 3057, 3201, 3218, 3296, 3498, 3594, 3633, 3770, 3839, 3864, 3886, 3907, 3915, 3963, 4237, 4319, 4353, 4480, 4685, 4912, 5003, 5004, 5035, 5036, 5100, 5108, 5136, 5248, 5260, 5435, 5550, 5550, 5930, 6691, 6699, 6747, 6776, 6802, 6813, 6814, 7296, 7298, 7303, 7341, 7611, 7714, 7793, 7945, 8010, 8289, 8292, 8297, 8353, 8524, 8846, 9186, 9233, 9301, 9441, 9597, 9740, 11091, 11202, 11377, 11642, 11680, 11851, 12327, 12385, 12386, 12574, 12646, 12798, 12839, 13089, 13098, 13189, 13237, 13246, 13264, 13373, 13374, 13571, 13631, 13716, 14125, 14184, 14756, 14812, 14889, 14923, 14951, 14952, 15041, 15126, 15250, 15263, 15321, 15395, 15396, 15452, 15547, 15881, 15885, 15972, 16080, 16261, 16280, 16451, 16525, 16532, 16770, 16966, 17278, 17384, 17412, 17472, 17568, 17869, 17915, 17952, 17995, 18017, 18059, 18165, 18180, 18317, 18552, 18623, 18630, 18632, 18633, 18652, 18826, 18826, 18833, 19070, 19081, 19195, 19196, 19257, 19259, 19316, 19386, 19388, 19540, 19762, 19846, 19918, 19955, 20076, 20324, 20341, 20434, 20580, 20650, 20732, 21206, 21234, 21235, 21237, 21238, 21239, 21251, 21257, 21260, 21261, 21263, 21268, 21270, 21435, 21493, 21511, 21578, 21887, 22195, 22277, 22349, 22386, 22395, 22427, 22433, 22489, 22490, 22502, 22503, 22581, 23033.
- Antihypertensive (no influence on heart)** 899.
- Antihypophyseal** 1613.
- Anti-hypotension** 2989, 3000, 5184, 8405, 16730, 21122.
- Anti-infective** 1845, 3202, 3203, 4995, 5189.
- Anti-inflammatory inactive summary index** 117, 303, 371, 496, 5531, 5750, 8216, 8217, 8507, 8520, 9365, 10639, 11572, 14777, 15670, 15928, 16162, 16164, 16165, 17351, 19032, 19871.
- Anti-inflammatory inactive, carrageenan-induced rat paw edema** 5531.
- Anti-inflammatory inactive, inhibiting COX-1 assay** 9365, 10639, 11572, 15670, 15928, 19871.
- Anti-inflammatory inactive, inhibiting COX-2 assay** 11572, 15928, 19871.
- Anti-inflammatory inactive, inhibiting NF- κ B assay** 16162, 16164, 16165.
- Anti-inflammatory inactive, inhibition assay of accumulation of NO₂⁻, LPS/IFN- γ -induced N9 microglial cells** 8216, 8217.
- Anti-inflammatory inactive, inhibition assay of accumulation of NO₂⁻, culture media of LPS-induced RAW264.7 cells** 8216, 8217.
- Anti-inflammatory inactive, inhibition assay of histamine release, rat mast cells stimulated with compound 48/80** 8216, 8217.
- Anti-inflammatory inactive, inhibition assay of release of β -glucuronidase, rat mast cells stimulated with compound 48/80** 8216, 8217.
- Anti-inflammatory inactive, LPS-activated mouse peritoneal macrophages** 303, 371, 496, 14777, 19032.
- Anti-inflammatory inactive, mast cells and neutrophils stimulated with various inducers** 117, 5750, 8507, 8520.
- Anti-inflammatory inactive, NO production inhibitor assay** 16162, 16164, 16165.
- Anti-inflammatory inactive, TNF- α production inhibitor assay, N9 microglial cells stimulated with LPS/IFN- γ** 117, 5750, 8507.
- Anti-inflammatory inactive, TNF- α production inhibitor assay, RAW264.7 cells stimulated with LPS** 117, 5750, 8507.
- Anti-inflammatory summary index (not including NO production inhibitor)** 27, 37, 56, 118, 119, 171, 173, 205, 222, 304, 309, 508, 538, 546, 547, 548, 580, 660, 663, 664, 668, 899, 966, 977, 978, 983, 1476, 1492, 1573, 1614, 1768, 1790, 1791, 1802, 1828, 1854, 1928, 1965, 1971, 2004, 2036, 2038, 2102, 2106, 2303, 2312, 2325, 2414, 2455, 2594, 2687, 2886, 2887, 2890, 2983, 2989, 2990, 3077, 3141, 3221, 3269, 3270, 3272, 3273, 3307, 3362, 3368, 3462, 3464, 3588, 3595, 3600, 3674, 3689, 3743, 3911, 3923, 3924, 3935, 3937, 3981, 4056, 4097, 4266, 4328, 4398, 4439, 4477, 4565, 4589, 4614, 4645, 4685, 4746, 4876, 4921, 4922, 4963, 5008, 5152, 5161, 5573, 5699, 5763, 5930, 5939, 6183, 6211, 6288, 6428, 6454, 6487, 6491, 6643, 6656, 6767, 6816, 6853, 6923, 6938, 7180, 7195, 7196, 7197, 7239, 7243, 7278, 7361, 7370, 7399, 7416, 7481, 7495, 7521, 7528, 7529, 7530, 7531, 7532, 7586, 7659, 7714, 7793, 7802, 7833, 7860, 7868, 7869, 7870, 7871, 7872, 7873, 7926, 7950, 7951, 8020, 8095, 8214, 8215, 8278, 8292, 8293, 8295, 8297, 8304, 8360, 8361, 8363, 8365, 8388, 8401, 8405, 8423, 8424, 8520, 8521, 8522, 8664, 8679, 8788, 8814, 8841, 8846, 8865, 8965, 9038, 9053, 9054, 9056, 9060, 9061, 9062, 9238, 9276, 9288, 9337, 9419, 9441, 9455, 9456, 9486, 9496, 9705, 10041, 10182, 10363, 10472, 10526, 10639, 10814, 10820, 10875, 10886, 10887, 10967, 11017, 11077, 11121, 11259, 11260, 11339, 11416, 11417, 11505, 11521, 11522, 11530, 11572, 11642, 11736, 11741, 11747, 11753, 11808, 12018, 12020, 12122, 12178, 12184, 12255, 12420, 12510, 12523, 12608, 12766, 12891, 12907, 12916, 12982, 12983, 12987, 13088, 13098, 13137, 13145, 13391, 13392, 13435, 13436, 13437, 13474, 13475, 13481, 13492, 13559, 13591, 13774, 13808, 13809, 13962, 14097, 14106, 14756, 14767, 14893, 14896, 14897, 14971, 14976, 14977, 14979, 15002, 15038, 15170, 15203, 15279, 15279, 15286, 15635, 15843, 15886, 15928, 16025, 16031, 16050, 16080, 16163, 16166, 16167, 16216, 16221, 16222, 16362, 16451, 16525, 16532, 16535, 16539, 16540, 16550, 16571, 16603, 16675, 16713, 16867, 16900, 16983, 17024, 17042, 17145, 17168, 17240, 17267, 17344, 17345, 17350, 17371, 17377,

- 17403, 17409, 17422, 17460, 17532, 17597, 17598, 17599, 17648, 17829, 17862, 17918, 17958, 18169, 18190, 18219, 18221, 18317, 18376, 18408, 18409, 18411, 18440, 18513, 18643, 18644, 18645, 18673, 18685, 18792, 18824, 18859, 19074, 19081, 19087, 19111, 19142, 19143, 19259, 19308, 19312, 19401, 19402, 19403, 19404, 19405, 19406, 19407, 19427, 19450, 19540, 19542, 19545, 19819, 19846, 19871, 19883, 19885, 19894, 19895, 19897, 19898, 19922, 19955, 19983, 20066, 20099, 20168, 20501, 20509, 20569, 20650, 20686, 20710, 20717, 20732, 20900, 20901, 20978, 20992, 21055, 21059, 21206, 21234, 21245, 21264, 21392, 21397, 21419, 21420, 21421, 21422, 21435, 21438, 21439, 21862, 21887, 21930, 21971, 22023, 22059, 22080, 22123, 22124, 22151, 22270, 22274, 22282, 22332, 22433, 22504, 22581, 22686, 22687, 22688, 22700, 22718, 22720, 22727, 22728, 22729, 22730, 22731, 22938, 22990.
- Anti-inflammatory, 12-LOX inhibitor in hmn platelets, without affecting the levels of cyclooxygenase** 2106, 16216, 22718.
- Anti-inflammatory, 15-LOX inhibitor** 1110, 1131, 2102, 2380, 4289, 13097, 13098, 13137, 19929.
- Anti-inflammatory, 5-LOX inhibitor** 444, 580, 2101, 2102, 2216, 3188, 3743, 6491, 7819, 7924, 7926, 8926, 8997, 9202, 9331, 11572, 12936, 15319, 15928, 16540, 16983, 17979, 18513, 19201, 19312, 19846, 19871, 22511, 22778.
- Anti-inflammatory, activity matches with aspirin** 12987.
- Anti-inflammatory, acute** 983, 16451.
- Anti-inflammatory, animal model** 3595, 9276, 17344, 17350, 18859, 21264.
- Anti-inflammatory, antiarthritic** 668, 3368, 7566, 8753.
- Anti-inflammatory, anti-edema** 118, 119, 2102, 2106, 6211, 10526, 11339, 14767, 14893, 15886, 18408, 19894, 21971.
- Anti-inflammatory, anti-inflammatory action in models of atherosclerosis, Alzheimer's disease, arthritis and pancreatitis; proposed mechanisms include macrophage activation inhibitor, lipoxygenase inhibitor, cyclooxygenase 2 inhibitor, and metabolite production via arachidonic acid pathways** 4398.
- Anti-inflammatory, antiproliferative, hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood** 8664.
- Anti-inflammatory, apoptosis, K562 cells, via inhibition of both LOX and COX** 18643.
- Anti-inflammatory, appears to be a highly specific antagonist for the CCR1 receptor** 19819.
- Anti-inflammatory, arthritis model, induced by carrageenan, suppresses recruitment of neutrophils** 12122.
- Anti-inflammatory, arthritis model, induced by formaldehyde or egg white** 8297.
- Anti-inflammatory, assay of dimethyl benzene-induced inflammation** 660, 7361, 11416, 11417.
- Anti-inflammatory, blocks macrophage inflammatory protein (MIP-1a) banding to hmn monocytes** 19819.
- Anti-inflammatory, blocks macrophage inflammatory protein (MIP-1a) binding to hmn embryonic kidney (HEK)/293 cells transfected with stable CC chemokine receptor-1 (CCR1)** 19819.
- Anti-inflammatory, blocks NO production and NOS activity and expression, rat macrophages and pancreatitis tissue** 4398.
- Anti-inflammatory, blocks regulated upon activation on normal T-cell expressed and secreted (RANTES) banding to hmn monocytes** 19819.
- Anti-inflammatory, blocks regulated upon activation on normal T-cell expressed and secreted (RANTES) binding to hmn embryonic kidney (HEK)/293 cells transfected with stable CC chemokine receptor-1 (CCR1)** 19819.
- Anti-inflammatory, blocks TNF- α -induced cell-cell adhesion between HUVECs and THP-1 cells** 18643.
- Anti-inflammatory, blocks VCAM-1 expression induced by IL-4 in endothelial cells** 16675.
- Anti-inflammatory, calcium-stimulated, mouse peritoneal macrophages and hmn platelets** 3981.
- Anti-inflammatory, caused by formalin** 5930.
- Anti-inflammatory, causes a pronounced reduction in the *c-fos* and TGF- β 1 expression in mouse skin stimulated by phorbol myristate acetate (PMA)** 18643.
- Anti-inflammatory, chemiluminescence assay** 21419, 21420, 21421, 21422.
- Anti-inflammatory, CINC-1 formation inhibitor, stimulated with LPS, LPSNRK-52E rat kidney epithelial cells** 18673.
- Anti-inflammatory, COX inhibitor** 16540, 16983, 18376, 19312, 19846, 19895, 19897, 19898.
- Anti-inflammatory, COX-1 inhibitor** 2890, 4056, 7180, 7860, 7868, 7869, 7870, 7871, 7872, 7873, 8814, 9486, 10041, 11753, 12178, 12891, 14106, 15203, 16550, 17371, 18317, 18513, 18643, 18644, 18645, 22504.
- Anti-inflammatory, COX-2 inhibitor** 1476, 2036, 2038, 2887, 2890, 3600, 4056, 6277, 6282, 7180, 7860, 7868, 7869, 7870, 7871, 7872, 7873, 8020, 8814, 9486, 10041, 10438, 10639, 12122, 12891, 13137, 13137, 13137, 14106, 14971, 14971, 14971, 15203, 15279, 16550, 17168, 17532, 18317, 18643, 18643, 18643, 18644, 18645, 19087, 21924, 22270, 22504, 22718.
- Anti-inflammatory, COX-2 inhibitor inactive** 330, 509, 510, 511, 6278, 6279, 6280, 11129, 13108, 15134, 19795, 19796.
- Anti-inflammatory, COX-2 inhibitor, inhibits expression of COX-2** 1476, 2036, 2038, 3600, 8020, 15279, 17168, 18317, 19087, 22718.
- Anti-inflammatory, COX-2 inhibitor, inhibits expression of COX-2, through inhibition of NF- κ B** 2036, 2038.
- Anti-inflammatory, COX-2 inhibitor, rat peritoneal macrophages, inhibits PGE2 production** 17532.
- Anti-inflammatory, COX-2 inhibitor, rat renal medulla** 13137, 14971.
- Anti-inflammatory, COX-2 inhibitor, selective** 16050, 22270.
- Anti-inflammatory, cytokine formation inhibitor, hmn peripheral blood monocytes, TNF- α , IL-1 β , IL-8 and IL-10** 20992.
- Anti-inflammatory, cytokine formation inhibitor, hmn peripheral blood mononuclear cells, TNF- α , IL-4, IL-2 and IFN- γ** 14976, 14977.
- Anti-inflammatory, cytokine formation inhibitor, macrophages, TNF- α , IL-6 and IL-12** 17240.
- Anti-inflammatory, cytokine formation inhibitor, RAW264.7 cells, TNF- α and IL-6** 13137, 18317, 8278, 3674.

- Anti-inflammatory, decreases expression of IL-1 α , IL-1 β , TNF- α and IL-6 mRNAs in J774A.1 macrophages 15635.
- Anti-inflammatory, diminishes increase in VCAM-1 and MCP-1 levels induced by TNF- α and oxidized LDL in HUVECs 9337.
- Anti-inflammatory, ear edema, both PMA and oxazolone-induced 13137.
- Anti-inflammatory, ear edema, prevents ear edema formation caused by PMA and synthesis of LOX products, especially LTC₄ and COX metabolites derived from arachidonic acid 14979, 13591, 10363.
- Anti-inflammatory, eczema in mouse ears, repeated administration of TPA 3462, 6938, 11530.
- Anti-inflammatory, edema and inflammation, induced by PMA 17958.
- Anti-inflammatory, experimental colitis 2102.
- Anti-inflammatory, free radical scavenger 19087.
- Anti-inflammatory, gpg ear edema, induced by benzoic acid 7521.
- Anti-inflammatory, gpg, erythema reaction from ultraviolet irradiation 664.
- Anti-inflammatory, ICAM-1 expression inhibitor 4217, 4218.
- Anti-inflammatory, ICAM-1 expression inhibitor, PMA-induced 13474, 13475.
- Anti-inflammatory, IL-12 production inhibitor 2102, 10886, 17240.
- Anti-inflammatory, IL-12 production inhibitor, macrophages, LPS-activated 10886, 17240.
- Anti-inflammatory, IL-12 production inhibitor, macrophages, LPS-activated, 2102.
- Anti-inflammatory, IL-1 β production inhibitor, hmn monocyte, LPS-stimulated 3368, 17862, 21397.
- Anti-inflammatory, IL-1 β /inhibitor, hmn monocyte 16539.
- Anti-inflammatory, IL-2 inhibitor, decreases expression of IL-2 in T-lymphocytes 16675.
- Anti-inflammatory, IL-5inhibitor 1476, 1492, 12020, 13137, 13145, 18409.
- Anti-inflammatory, IL-6 and IL-8 blocker, blocking production and expression of IL-6 and IL-8 2102, 22718.
- Anti-inflammatory, increases TNF- α level in RAW264.7 cells 2102, 2106, 22718.
- Anti-inflammatory, inhibits 5-LOX metabolites especially LTC₄ 3981.
- Anti-inflammatory, inhibits accumulation of NO₂⁻¹ 8214, 8215.
- Anti-inflammatory, inhibits activation of IL-12 gene promoter 10886.
- Anti-inflammatory, inhibits activation of NF- κ B, PMA- and TNF- α -induced, mechanism not involving antioxidant pathways 10886.
- Anti-inflammatory, inhibits binding of several chemokines, such as CXC, CC to hmn leukocytes or cells transfected with chemokine receptors 2102, 2106.
- Anti-inflammatory, inhibits C5a-stimulated release of TNF- α and IL-1 β 17460.
- Anti-inflammatory, inhibits C5a-stimulated release of TNF- α and IL-1 β , RAW264.7 cells 17460.
- Anti-inflammatory, inhibits chemotaxis of hmn peripheral blood neutrophils 6428.
- Anti-inflammatory, inhibits COX metabolite PGE₂, TXB₂ 3981.
- Anti-inflammatory, inhibits expression and production of of pro-inflammatory cytokines (IL-1 β , IL-6, TNF- α , IFN γ , MIP-1 α/β), hmn peripheral blood mononuclear cells under stimulation with superantigenic staphylococcal exotoxins 2106.
- Anti-inflammatory, inhibits expression of iNOS 1790, 5669, 7982, 7985, 10628, 10820, 11017, 12122, 13433, 13434, 13435, 13436, 13437, 16603, 16713, 17409, 18643, 19405, 19406, 19895, 20686.
- Anti-inflammatory, inhibits expression of iNOS, TPA-treated hmn monocyte cell line THP-1 16713.
- Anti-inflammatory, inhibits induction of VCAM-1, HUVECs, TNF- α - and IL-1 β -stimulated 3911.
- Anti-inflammatory, inhibits inflammation induced by cancer promotor TPA 16221, 16222.
- Anti-inflammatory, inhibits lipid peroxidation see "Antioxidant, inhibits lipid peroxidation".
- Anti-inflammatory, inhibits lipid peroxidation, cephalopin 8278, 13088, 18685, 19450.
- Anti-inflammatory, inhibits LPS-induced DNA binding activity of NF- κ B, associated with decrease of p65 protein levels in nucleus 10820.
- Anti-inflammatory, inhibits LTB₄ biosynthesis 2106.
- Anti-inflammatory, inhibits metabolism of arachidonic acid 7926, 15038, 19259, 22274.
- Anti-inflammatory, inhibits metabolism of arachidonic acid, calcium ionophore-stimulated leukocytes, inhibits LTB₄ production 10182, 10472.
- Anti-inflammatory, inhibits mRNA expression and production of TNF- α or IL-6 in RAW 264.7 cells 11521, 11522.
- Anti-inflammatory, inhibits not only expression of inflammatory NF- κ B target genes such as iNOS, COX-2 and TNF- α but also production of PGE₂ and TNF- α 12122.
- Anti-inflammatory, inhibits over-production of NO and PGE₂ 16532.
- Anti-inflammatory, inhibits PGE₂ production and inhibits COX-2 production, but not COX-1 17532.
- Anti-inflammatory, inhibits production of COX metabolite PGE₂, reduces TXB₂ level 17145, 18792, 20569.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α , IL-1 β , IL-4, IL-2 and IFN- γ), hmn peripheral mononuclear cells 22686, 22687, 22688.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α , IL-1 β and IL-6) 16532.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α and IL-1 β), hmn monocytes and macrophages 3368.
- Anti-inflammatory, inhibits production of PGE₂ and proMMP-9 in rabbit synovial fibroblasts 15635.
- Anti-inflammatory, inhibits production of PGE₂ in C6 rat glioma cells 2106.
- Anti-inflammatory, inhibits protein and mRNA expression levels of iNOS and COX-2 enzymes 10820.
- Anti-inflammatory, inhibits RANTES-induced CCR1 cell migration, without interfering with CCR1 cell migration induced by

- epidermal growth factor (EGF)** 19819.
- Anti-inflammatory, inhibits release and metabolism of arachidonic acid** 7802, 15170.
- Anti-inflammatory, inhibits release of histamine** 8214, 8215.
- Anti-inflammatory, inhibits release of β -glucuronidase, rat mast cells stimulated with compound 48/80** 8214, 8215.
- Anti-inflammatory, inhibits synthesis of COX-2 transcript** 22504.
- Anti-inflammatory, inhibits synthesis of iNOS transcript** 22504.
- Anti-inflammatory, inhibits synthesis of prostaglandin and leukotriene** 22059.
- Anti-inflammatory, inhibits thioglycolate-elicited rat peritoneal neutrophil accumulation and LPS-activated nitric oxide production in murine macrophages** 20978.
- Anti-inflammatory, lead compound to develop new anti-inflammatory drugs** 4398, 12122, 15635, 16532.
- Anti-inflammatory, lead compound to treat asthma** 13137.
- Anti-inflammatory, leukocyte elastase MMP-2/9 inhibitor** 6923, 14971.
- Anti-inflammatory, LTC₄ selective inhibitor, rat resident peritoneal macrophage** 2102.
- Anti-inflammatory, lysosome enzyme inhibitor, polymorphonuclear (PMN) leukocytes** 8405, 9053, 9054, 9056, 9060, 9061, 9062.
- Anti-inflammatory, may be useful for the treatment of various inflammatory diseases** 11017.
- Anti-inflammatory, modified Tan and Berridge method** 508, 5008, 8788, 12510, 12982, 12983, 18169, 20501.
- Anti-inflammatory, modulation of complement 5a-induced chemotaxis and inflammatory cytokines production in macrophages** 17460.
- Anti-inflammatory, modulator of cytokine network** 2004, 2102, 2106, 2983, 3269, 3270, 3272, 3273, 3307, 3368, 3368, 3674, 3911, 4398, 4565, 5699, 6923, 7278, 7714, 8278, 8423, 8424, 9276, 9337, 9456, 11521, 11522, 12523, 13137, 14971, 14976, 14977, 15635, 16532, 16675, 17240, 17409, 17460, 17862, 18317, 18643, 18673, 19308, 19427, 19819, 20992, 21206, 21397, 22686, 22687, 22688, 22718, 22727, 22728, 22729, 22730, 22731.
- Anti-inflammatory, most effective component of 10 compounds in *Schizonepeta tenuifolia* (JING JIE)** 17377.
- Anti-inflammatory, mus arthritis** 4589, 19955, 22023.
- Anti-inflammatory, mus ear edema, induced by arachidonic acid** 12766, 18219.
- Anti-inflammatory, mus ear edema, induced by croton oil** 977, 978, 5152, 7521, 8521, 8522, 10814, 11121, 11259, 11260, 17422, 22023.
- Anti-inflammatory, mus ear edema, induced by croton oil, by down-regulation of COX-2** 8401.
- Anti-inflammatory, mus ear edema, induced by phospholipase A₂** 19883, 19885.
- Anti-inflammatory, mus ear edema, induced by TPA** 205, 1971, 2102, 12766, 13098, 16080, 17345, 20710, 21392.
- Anti-inflammatory, mus paw edema model** 4614, 8965, 22700, 22938.
- Anti-inflammatory, mus paw edema model, induced by 5-HT** 664, 7243.
- Anti-inflammatory, mus paw edema model, induced by carrageenan** 663, 664, 966, 1768, 1928, 2455, 2594, 2990, 3462, 3743, 4328, 5573, 6454, 6487, 7243, 7521, 7659, 8304, 8841, 9288, 9419, 9705, 11747, 12122, 12916, 13481, 14896, 14897, 16050, 16080, 16525, 16532, 16867, 17042, 18221, 19540, 19922, 20509, 20569, 20717, 21055, 21435, 21438, 21439, 22080, 22151, 22433, 22504, 22504.
- Anti-inflammatory, mus paw edema model, induced by carrageenan, inhibits leucocyte aggregation in inflammatory exudate** 22720.
- Anti-inflammatory, mus paw edema model, induced by DMSO** 546, 547, 548.
- Anti-inflammatory, mus paw edema model, induced by formaldehyde** 19111.
- Anti-inflammatory, mus paw edema model, induced by glucosan** 664, 16525.
- Anti-inflammatory, mus paw edema model, induced by glucosan or acetate acid** 16532.
- Anti-inflammatory, mus paw edema model, induced by histamine** 663, 664.
- Anti-inflammatory, mus paw edema model, induced by phospholipase A₂** 11530, 21392.
- Anti-inflammatory, mus, experimental chronic arthritis** 16050, 14896.
- Anti-inflammatory, mus, formaldehyde edema model** 56, 309, 8841, 12510, 15286.
- Anti-inflammatory, mus, inflammation caused by TPA** 10967, 16362, 4963.
- Anti-inflammatory, mus, inhibits phoroplast permeability** 899.
- Anti-inflammatory, mus, inhibits vaso-permeability** 3588, 5161, 7495, 15843, 19922, 20569.
- Anti-inflammatory, mus, tampon granuloma model** 309, 3368, 4266, 8841, 8841, 9238, 11505, 11747, 13391, 13481, 13559, 22151, 22938.
- Anti-inflammatory, mus, tuberculin reaction model** 8841.
- Anti-inflammatory, mus, woolball model** 10887, 12018, 12020, 13137, 15279, 19087, 20099, 22270.
- Anti-inflammatory, myeloperoxidase inhibitor** 2102, 13098.
- Anti-inflammatory, NF- κ B inhibitor** 19401, 19402, 19403, 19404, 13474, 13475.
- Anti-inflammatory, NF- κ B pathway** 2890, 3141, 4398, 6923, 7239, 9288, 16031, 16713, 17862, 18317, 18643.
- Anti-inflammatory, NF- κ B activation inhibitor, LPS-induced, murine RAW264.7 cells** 171, 173, 222, 5939, 16675.
- Anti-inflammatory, NF- κ B inhibitor** 1790, 1791, 1802, 2004, 2036, 2038, 3307, 3362, 3368, 4746, 7195, 7196, 7197, 10820, 10886, 14097, 15002, 16163, 16166, 16167, 16675, 18643, 19407, 19895, 21930, 2102, 6288.
- Anti-inflammatory, NF- κ B inhibitor, hmn monocytes, prevents cytokines (IL-1, IL-6, TNF, IL-8) release and PGE₂ synthesis** 6288, 21930.
- Anti-inflammatory, NF- κ B inhibitor, LPS-induced, RAW264.7 cells** 16675, 14097, 4746, 7196, 7197, 15002, 7195, 1802, 1791, 1790.
- Anti-inflammatory, no detail information** 1828, 1965, 2325, 2414, 2687, 2886, 3221, 3464, 6183, 6816, 7370, 7528, 7529, 7530, 7531, 7532, 7950, 9455, 8293, 8295, 12907, 13809, 8360, 8361, 8365, 8363, 12608, 16025, 17267, 17648, 17918, 18440, 19074, 21245, 3935, 3937, 304, 538, 580, 1614, 2303, 2312, 2989, 3077, 3600, 3689, 3923, 3924, 4439, 4477, 4645, 4685, 4876, 5763, 6643, 6656, 6767, 6853, 7481, 7586,

- 7793, 7951, 9441, 8292, 8095, 11077, 12420, 9038, 9496, 11808, 12255, 13392, 13492, 13808, 13962, 14756, 12184, 8846, 11642, 11736, 10875, 11741, 13774, 16900, 17024, 17597, 17598, 17599, 17829, 18190, 18411, 19142, 19143, 19542, 19545, 19983, 20168, 20650, 20732, 21059, 21234, 21887, 22282, 22581, 27, 13437, 13435, 13436, 8865, 17403, 16535, 22990, 7833, 18824, 21862, 22332.
- Anti-inflammatory, NO production inhibitor** see "NO production inhibitor".
- Anti-inflammatory, NO, IL-1 β , IL-6 and TNF- α production inhibitor** 20686.
- Anti-inflammatory, ornithine decarboxylase inhibitor** 2102.
- Anti-inflammatory, PGE₂ production inhibitor** 12122, 16603.
- Anti-inflammatory, PGE₂ production inhibitor, LPS-induced, RAW264.7 cells** 1573, 8020, 8679, 10820, 19081, 19405, 19406, 22123, 22124, 22270.
- Anti-inflammatory, PGE₂ production inhibitor, rat peritoneal macrophages** 17532.
- Anti-inflammatory, PGE₂ production inhibitor, TPA-stimulated rat peritoneal macrophages** 20900, 20901.
- Anti-inflammatory, PMA-treated mammary epithelial cells, inhibits COX-2 transcription and COX-2 activity, by inhibiting signal transduction through PKC** 18643.
- Anti-inflammatory, prevents eotaxin production and mRNA eotaxin expression in hmn fibroblasts stimulated with IL-4/TNF- α** 2102.
- Anti-inflammatory, prevents integrin-mediated neutrophil adhesion and fMLP- or leukotriene B₄-induced transmigration** 7714, 21206.
- Anti-inflammatory, prevents production of TNF- α , IL-1b and IL-6 in LPS-activated macrophages, possibly via NF- κ B inhibition** 3307.
- Anti-inflammatory, prevents TNF- α and IL-6 production in RBL-2H3 stimulated mast cells, through a mechanism involving the blockade of NF- κ B activation** 2004.
- Anti-inflammatory, prostaglandin biosynthesis inhibitor** 4921, 4922, 8388.
- Anti-inflammatory, prostaglandin biosynthesis inhibitor, rbt kidney microsomes** 16571.
- Anti-inflammatory, prostanoid inhibitor, LOX pathway** 18643.
- Anti-inflammatory, rat, experimental gastric ulcer** 37.
- Anti-inflammatory, reduces arthritic inflammation in rat adjuvant-induced arthritis as well as abdominal constriction caused by acetic acid** 8401.
- Anti-inflammatory, reduces cell surface expression of adhesion molecules, resulting in inhibition of THP-1 monocyte adhesion to TNF- α stimulated HUVECs** 9337.
- Anti-inflammatory, reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes** 3269, 3270, 3272, 3273.
- Anti-inflammatory, reduces expression of VCAM-1, aorta cells of hypercholesterolemic New Zealand rabbits** 9337.
- Anti-inflammatory, reduces ICAM-1 expression, mouse liver cells, LPS-stimulated** 13137.
- Anti-inflammatory, reduces IFN- γ -induced ICAM-1 protein, as well as mRNA expression in hmn keratinocytes** 5699.
- Anti-inflammatory, reduces leukocyte infiltration, measured as tissue peroxidase activity** 6938, 11530.
- Anti-inflammatory, reduces permeability of blood capillary and activity of hyaluronidase** 20066.
- Anti-inflammatory, reduces permeability of capillary and blood cell walls** 4097.
- Anti-inflammatory, reduces VCAM-1 expression, HUVECs, TNF- α -induced** 9337.
- Anti-inflammatory, retardation of macrophage recruitment and suppression of cytokines production might underlie potential usefulness of piperlactam S as an anti-inflammatory agent** 17460.
- Anti-inflammatory, specific NF- κ B inhibitor of DNA-binding activity of p50 subunit** 12122.
- Anti-inflammatory, sulfate of rutin being strong anti-inflammatory** 19087.
- Anti-inflammatory, suppresses expression of iNOS and COX-2 protein** 19405, 19406.
- Anti-inflammatory, suppresses expression of iNOS and COX-2, without cytotoxic effect** 16603.
- Anti-inflammatory, suppresses expression of NF- κ B target genes such as iNOS and COX-2** 1790.
- Anti-inflammatory, suppresses IL-1 β -induced production of PGE₂ in hmn synovial fibroblasts** 15635.
- Anti-inflammatory, suppresses iNOS expression and NO production, cultured cells, by down-regulation of NF- κ B binding activity via blockade of I κ B α degradation** 18643.
- Anti-inflammatory, TNF- α production inhibitor** 13137, 14097, 4746, 7196, 7197, 15002, 7195, 1802, 1791, 1790, 12122, 16675.
- Anti-inflammatory, TNF- α production inhibitor, LPS/IFN- γ -induced, N9 microglial cell lines** 8520.
- Anti-inflammatory, TNF- α production inhibitor, LPS/IFN- γ -induced, peritoneal macrophages** 9337.
- Anti-inflammatory, TNF- α production inhibitor, LPS-induced, RAW264.7 cells** 2983, 4565, 7278, 8423, 8424, 8520, 9276, 9456, 12523, 17409, 18673, 19308, 19427, 22727, 22728, 22729, 22730, 22731.
- Anti-inflammatory, TNF- α production inhibitor, LPS-induced, U937 cells** 8423, 8424.
- Anti-inflammatory, TNF- α production inhibitor, sulphhydryl (thiol, -SH) compounds abrogated the inhibitory effect** 4565.
- Anti-inflammatory, treatment of cervicitis** 7399, 7416.
- Anti-inflammatory, Ungar method** 15635.
- Anti-inflammatory, inhibits iNOS** 1854, 4292, 5722, 16717, 20685, 20686, 22059.
- Antileishmanial** 515, 580, 815, 816, 1141, 1145, 1146, 1241, 1244, 1250, 1252, 1937, 1939, 2004, 2229, 2346, 2683, 2833, 2844, 2920, 2924, 3157, 3158, 3166, 3186, 3306, 3551, 3609, 3674, 3856, 4080, 4279, 4478, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 5675, 6024, 6025, 6776, 6973, 7646, 7650, 7651, 7925, 8325, 8985, 9750, 9788, 10310, 10465, 10733, 11001, 11148, 11195, 11601, 12232, 12487, 12916, 13571, 13874, 13876, 14222, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313,

- 15314, 15315, 15316, 15779, 15780, 16067, 16068, 16693, 16898, 17135, 17940, 18221, 18784, 19077, 19234, 19235, 19542, 19568, 19960, 20369, 20390, 22496, 22551, 22818.
- Antileishmanial inactive, *Leishmania donovani*** 4866, 15716.
- Antileprotic** 3485, 8955, 9697.
- Antimalarial inactive summary index** 8, 472, 506, 1276, 1532, 1784, 2334, 2911, 3097, 3159, 3413, 3852, 3940, 3941, 4068, 4069, 4237, 4866, 4982, 5733, 6034, 6757, 6809, 6810, 7503, 8321, 8335, 8336, 9887, 10159, 10426, 10427, 13241, 13297, 13867, 13869, 13871, 14462, 14729, 14731, 14758, 14915, 15716, 16050, 16154, 16892, 16898, 17940, 19533, 19999, 20377, 21475, 21926, 22230.
- Antimalarial inactive, *Plasmodium*** 3940, 3941.
- Antimalarial inactive, *Plasmodium falciparum*** 506, 580, 815, 816, 1241, 2004, 2334, 2924, 3166, 3306, 3551, 4866, 5675, 6809, 6810, 7925, 9750, 12916, 14222, 14729, 14731, 14758, 15716, 16154, 18221, 19568, 19960.
- Antimalarial inactive, *Plasmodium falciparum* D10** 1532.
- Antimalarial inactive, *Plasmodium falciparum* D6** 3852.
- Antimalarial inactive, *Plasmodium falciparum* D6 chloroquine-sensitive strain** 5733.
- Antimalarial inactive, *Plasmodium falciparum* D6 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium falciparum* Dd2** 4068, 4069.
- Antimalarial inactive, *Plasmodium falciparum* FAC8** 1532.
- Antimalarial inactive, *Plasmodium falciparum* K1** 3413, 6034, 10159, 10426, 10427, 14915, 20369.
- Antimalarial inactive, *Plasmodium falciparum* K1 multidrug-resistant strain** 2911, 19999, 20377.
- Antimalarial inactive, *Plasmodium falciparum* NF54** 4982, 10159, 13297, 22230.
- Antimalarial inactive, *Plasmodium falciparum* poW** 1928, 4068, 4069, 5659, 7883.
- Antimalarial inactive, *Plasmodium falciparum* TM91C235 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium falciparum* W2 chloroquine-resistant** 3852, 5733.
- Antimalarial inactive, *Plasmodium falciparum* W2 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium* hmn** 11133.
- Antimalarial summary index** 24, 52, 52, 53, 55, 261, 262, 266, 580, 589, 602, 675, 676, 777, 815, 816, 919, 1141, 1145, 1147, 1241, 1364, 1460, 1475, 1784, 1784, 1784, 1784, 1784, 1842, 1857, 1928, 1937, 1939, 2004, 2148, 2191, 2672, 2683, 2870, 2871, 2872, 2873, 2875, 2883, 2884, 2885, 2910, 2914, 2916, 2917, 2920, 2924, 3004, 3005, 3007, 3096, 3166, 3243, 3306, 3551, 3609, 3614, 3674, 3686, 3700, 4048, 4066, 4067, 4104, 4181, 4421, 4478, 4949, 5095, 5146, 5435, 5436, 5659, 5675, 5833, 6018, 6020, 6409, 6413, 6433, 6464, 6776, 6896, 6971, 7304, 7329, 7883, 7925, 8004, 8322, 8509, 9072, 9598, 9738, 9739, 9750, 9857, 9885, 9926, 10310, 10340, 10383, 10398, 10531, 10561, 10656, 11133, 11148, 11195, 11358, 11594, 11596, 11598, 11723, 11723, 11977, 11978, 11988, 12455, 12487, 12501, 12573, 12573, 12751, 12751, 12766, 12916, 13241, 13811, 13918, 14029, 14183, 14222, 14325, 14396, 15062, 15722, 15739, 15764, 15804, 16050, 16067, 16068, 16261, 16366, 16373, 16374, 16604, 16912, 16913, 16914, 16915, 16970, 17041, 17309, 17422, 17423, 17478, 17574, 17827, 17841, 17846, 17847, 17924, 17983, 18188, 18221, 18252, 18253, 18425, 18425, 18515, 18862, 18867, 19234, 19235, 19568, 19753, 19883, 19885, 19886, 19887, 19888, 19891, 19892, 19900, 19960, 20108, 20253, 20333, 20334, 20369, 20414, 20415, 20975, 21313, 21314, 21315, 21316, 21389, 21390, 21905, 22278, 22279, 22551, 22818, 23002.
- Antimalarial, causes transformation of erythrocytes into stomatocytes** 16050.
- Antimalarial, cultivated *in vitro* by Trager and Jensen method** 17574, 20253.
- Antimalarial, formerly used to treat malaria** 18425.
- Antimalarial, inhibits *Plasmodium falciparum*. absorbing H³-sarkin *in vitro*** 2672.
- Antimalarial, mus *Plasmodium* sp.** 777, 1475, 23002.
- Antimalarial, mus, infected by *Plasmodium vinckei*** 16898, 17940.
- Antimalarial, no detail information** 3686, 8509, 9738, 20108, 21905, 1842, 2191, 4421, 5435, 9739, 9857, 12501, 16261, 17983, 20975.
- Antimalarial, *Plasmodium*** 24, 1364, 1784, 6757, 16050, 18252, 18253, 20333, 20334, 20414, 21926.
- Antimalarial, *Plasmodium berghei*** 18862, 18867.
- Antimalarial, *Plasmodium berghei* NK65 on infected mouse** 261, 262, 10531, 15062.
- Antimalarial, *Plasmodium* chloroquine-resistant strain** 3614, 11723, 20415.
- Antimalarial, *Plasmodium* chloroquine-sensitive strain** 3614, 11723, 20415.
- Antimalarial, *Plasmodium* F32 chloroquine-sensitive strain** 919.
- Antimalarial, *Plasmodium falciparum*** 777, 1784, 1784, 1784, 1937, 1939, 2683, 2920, 3243, 3609, 3674, 5095, 6413, 6776, 7503, 8335, 8336, 10383, 11148, 11195, 11977, 13918, 14183, 16067, 16068, 16912, 16913, 16914, 16915, 16970, 17041, 17841, 17846, 17847, 18515, 19900, 21389, 22551.
- Antimalarial, *Plasmodium falciparum* 3D7** 675, 10656, 11358, 11594, 11596, 11598, 12455, 12766, 16366, 17422, 17423.
- Antimalarial, *Plasmodium falciparum* D10** 8, 472, 1276, 4237, 13241, 21475.
- Antimalarial, *Plasmodium falciparum* D10 chloroquine-sensitive** 6018, 6020, 13811.
- Antimalarial, *Plasmodium falciparum* D2** 12573.
- Antimalarial, *Plasmodium falciparum* D6** 52, 52, 53, 55, 1460, 1784, 5146, 5833, 6409, 7304, 7329, 8004, 8321, 9072, 9598, 10398, 12751, 12751, 14029, 14462, 16604, 17827, 17924, 18188, 18425, 19753, 19883, 19885, 19886, 19887, 19888, 21390.
- Antimalarial, *Plasmodium falciparum* D6 chloroquine-sensitive** 2148, 4949, 6971, 8322, 17309, 22278, 22279, 22818, 4104, 15739, 15764, 15804, 1857.
- Antimalarial, *Plasmodium falciparum* D6 clone** 21313, 21314, 21315, 21316.
- Antimalarial, *Plasmodium falciparum* Dd2** 676, 1928, 3004, 3005, 3007, 3700, 4066, 4067, 5659, 7883, 12573, 12766.
- Antimalarial, *Plasmodium falciparum* F32 chloroquine-sensitive**

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- Antimalarial, *Plasmodium falciparum* FAC8** 472, 1276, 4237, 13241.
- Antimalarial, *Plasmodium falciparum* FCA20 GHANA chloroquine-sensitive** 11723.
- Antimalarial, *Plasmodium falciparum* FcB1** 266, 2914, 2916, 2917, 4181, 6464, 9926, 10340, 10561, 16050, 16374.
- Antimalarial, *Plasmodium falciparum* FCB1 COLOMBIA(CQR-) strain** 11723.
- Antimalarial, *Plasmodium falciparum* FcM29** 10340, 16373, 16374.
- Antimalarial, *Plasmodium falciparum* FCR3 drug-sensitive strain** 19891, 19892.
- Antimalarial, *Plasmodium falciparum* FCR-3/A2 clone** 2870, 2871, 2872, 2873, 2875, 2883, 2884, 2885, 15722.
- Antimalarial, *Plasmodium falciparum* K1** 8, 589, 1141, 1145, 1147, 4048, 6433, 6896, 10310, 11978, 12487, 14325, 14396, 17478, 19234, 19235, 21475.
- Antimalarial, *Plasmodium falciparum* K1 chloroquine-resistant strain** 19891, 19892.
- Antimalarial, *Plasmodium falciparum* K1 multidrug-resistant strain** 1784, 2910, 11988, 17574, 19533, 20253.
- Antimalarial, *Plasmodium falciparum* NF54** 589, 6433, 6896, 13241, 14325, 14396.
- Antimalarial, *Plasmodium falciparum* NF54 chloroquine-sensitive strain** 11988.
- Antimalarial, *Plasmodium falciparum* PFB(CQR+) strain** 11723.
- Antimalarial, *Plasmodium falciparum* PoW** 4066, 4067, 12573, 3700, 3005, 676, 3004, 3007.
- Antimalarial, *Plasmodium falciparum* W2** 52, 53, 55, 1460, 1784, 5146, 6409, 8004, 8321, 9072, 9598, 12751, 14029, 14462, 16604, 17827, 17924, 18188, 18425, 19753, 19883, 19885, 19886, 19887, 19888, 21390.
- Antimalarial, *Plasmodium falciparum* W2 chloroquine-resistant strain** 52, 12751, 7304, 10398, 5833, 6018, 6020, 7329, 9885, 2148, 4949, 6971, 8322, 13811, 17309, 22278, 22279, 22818, 4104, 15739, 15764, 15804, 1857.
- Antimalarial, *Plasmodium falciparum* W2 clone** 3096, 21313, 21314, 21315, 21316.
- Antimalarial, *Plasmodium falciparum* W2 INDOCHINA(CQR) strain** 11723.
- Antimalarial, *Plasmodium* FcM29-Cameroon chloroquine resistant strain** 919.
- Antimalarial, *Plasmodium* moderate chloroquine-resistant strain** 3614, 11723.
- Antimalarial, similar action with quinine** 602.
- Antimelancholic** 10886.
- Anti-metabolism** 3059.
- Antimicrobial** 933, 2057, 2303, 2628, 3079, 3499, 3600, 4032, 6606, 8081, 8403, 8487, 8549, 8550, 8555, 8556, 8557, 8752, 11808, 11819, 12256, 12503, 12749, 13492, 15741, 15849, 16128, 16457, 16584, 17695, 17831, 19047, 19257, 19259, 20093, 21597, 22290.
- Antimitotic** 1372, 2890, 3909, 4547, 5074, 5093, 7768, 9740, 12732, 20284, 22408, 22488, 22491.
- Antimitotic and antifungal** 3458, 3459, 3461, 11319, 15361, 19890.
- Antimitotic and antifungal inactive** 3460.
- Antimutagenic** 870, 6193, 7956, 19983, 20355, 20365, 20369.
- Antimutagenic** 2564, 3026, 3551, 6757, 6853, 8095, 9818, 18545.
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- Antiosteoporosis** 2480.
- Antioxidant inactive summary index** 27, 113, 258, 571, 572, 573, 574, 575, 577, 580, 617, 618, 959, 960, 961, 1107, 1113, 1162, 1363, 1476, 1513, 1935, 2073, 2107, 2136, 2311, 2491, 2539, 2805, 3004, 3175, 3359, 3389, 3475, 3615, 3619, 3775, 3872, 3873, 3983, 4195, 4199, 4200, 4201, 4202, 4243, 4406, 4604, 4611, 4612, 4613, 4940, 5044, 5096, 5276, 5652, 5864, 5865, 6060, 6365, 6622, 6626, 6628, 6629, 6630, 6631, 6776, 6778, 6779, 6780, 6781, 6782, 6865, 7305, 7306, 7307, 7405, 7457, 7478, 7701, 7702, 7768, 7773, 7825, 7826, 7883,

- 7925, 7949, 7974, 8029, 8136, 8210, 8211, 8219, 8221, 8278, 8278, 8423, 8426, 8427, 8504, 8546, 8547, 8869, 8871, 9243, 9347, 9423, 9502, 9551, 9626, 9811, 10127, 10220, 10221, 10222, 10231, 10362, 10376, 10442, 10578, 10751, 10786, 10803, 10883, 10884, 10885, 10889, 10929, 10930, 10931, 10932, 10933, 11324, 11434, 11462, 11527, 11658, 11669, 11683, 12053, 12070, 12082, 12178, 12420, 12819, 12820, 12821, 12822, 12824, 13088, 13107, 13250, 13253, 13492, 13493, 13572, 13624, 13637, 14723, 15342, 15525, 16159, 16160, 16169, 16180, 16182, 16245, 16252, 16629, 16630, 16631, 16632, 16633, 16994, 17012, 17048, 17247, 17251, 17287, 17416, 17511, 17517, 17518, 17548, 17559, 17588, 18086, 18317, 18368, 18411, 18674, 18755, 18925, 19182, 19211, 19542, 19562, 19572, 19619, 19777, 20389, 20423, 20424, 20425, 20426, 20427, 20569, 20711, 20840, 21357, 21415, 21711, 21763, 21768, 21857, 21996, 22025, 22182, 22252, 22332, 22336, 22609, 22667, 22673, 22775.
- Antioxidant inactive, assay on AAPH-induced hemolysis of RBC** 12819, 12820, 12824.
- Antioxidant inactive, Cytochrome-C reduction** 1935, 11658, 11669, 12053, 15525.
- Antioxidant inactive, DCFH method, HL-60 cells** 1476, 4940, 5652, 5864, 5865, 9423, 12070, 21711, 21857.
- Antioxidant inactive, DPPH scavenger inactive** 27, 258, 577, 580, 617, 618, 618, 959, 1107, 1113, 1363, 1513, 1935, 2073, 2107, 2136, 2311, 2491, 2805, 3175, 3359, 3389, 3475, 3615, 3615, 3619, 3619, 3775, 3872, 3873, 3983, 4195, 4199, 4200, 4201, 4202, 4406, 4611, 4612, 4613, 5044, 5096, 5276, 6060, 6365, 6622, 6626, 6628, 6629, 6630, 6631, 6776, 6776, 6778, 6779, 6865, 7457, 7825, 7826, 7925, 7949, 7974, 8210, 8211, 8219, 8221, 8221, 8546, 8547, 9243, 9551, 9626, 9811, 10127, 10231, 10362, 10376, 10578, 10803, 10883, 10885, 10933, 11324, 11462, 11527, 11658, 11669, 11683, 12053, 12082, 13088, 13107, 13492, 13493, 13493, 13572, 13624, 14723, 15525, 16169, 16180, 16182, 16245, 16994, 17012, 17247, 17247, 17251, 17416, 17517, 17548, 17559, 17588, 18086, 18411, 18674, 18755, 18925, 19182, 19542, 19562, 19619, 20389, 20423, 20424, 20425, 20426, 20427, 20569, 20711, 20840, 21357, 21763, 21768, 21996, 22025, 22182, 22252, 22332, 22336, 22609, 22673, 22775.
- Antioxidant inactive, DPPH scavenger inactive, TLC** 51, 113, 2539, 3004, 4243, 4604, 7305, 7306, 7307, 7701, 7702, 7883, 8136, 8278, 8278, 11434, 13107, 13637, 15342, 17048, 18317, 19777, 22667.
- Antioxidant inactive, ferric thiocyanate method** 10751, 19211.
- Antioxidant inactive, FMLP-induced and OZ-induced oxidative burst** 6780, 6781, 6782, 8029, 10220, 10221, 10222, 10889, 10931, 16629, 16630, 16631, 16632.
- Antioxidant inactive, H₂O₂/horseradish peroxidase assay** 10885.
- Antioxidant inactive, hydroxyl radical scavenging assay** 1162, 7773, 9347, 10442, 17287.
- Antioxidant inactive, inhibits peroxidation of linolenic acid** 258.
- Antioxidant inactive, inhibits superoxide anion generation, fMLP/CB method** 12178.
- Antioxidant inactive, iron chelating assay** 2805, 6365, 7457, 7478, 18925.
- Antioxidant inactive, lipid peroxide inhibitory experiment** 8869, 8871, 17518, 17559, 21415.
- Antioxidant inactive, lipid peroxide inhibitory experiment, rat hepatic homogenate, caused by FeSO₄** 8426, 8427.
- Antioxidant inactive, lipid peroxide inhibitory experiment, rat hepatic homogenate, caused by H₂O₂+FeSO₄** 8426.
- Antioxidant inactive, lipid peroxide inhibitory experiment, rat hepatic homogenate, caused by H₂O₂** 8426, 8423.
- Antioxidant inactive, lipid peroxide inhibitory experiment, rat liver microsomes** 10786, 19542.
- Antioxidant inactive, no description on experimental method** 571, 572, 573, 574, 575.
- Antioxidant inactive, PMN cellular chemiluminescence assay** 6780, 6781, 6782, 8029, 10220, 10221, 10222, 10889, 10931, 16629, 16630, 16631, 16632.
- Antioxidant inactive, PMN cellular chemiluminescence assay, reduces oxidative burst FMLP-induced** 10929, 10932, 10930, 10933, 10885, 10884, 16633.
- Antioxidant inactive, rbt, peroxidization of erythrocytic membrane** 18368.
- Antioxidant inactive, SOD-like activity** 617, 618, 8504, 9502.
- Antioxidant inactive, superoxide anion radical scavenging assay** 1162, 7773, 9347, 10442, 10885, 17287, 17511, 19572.
- Antioxidant inactive, superoxide anion radical scavenging assay, superoxide dismutase method** 7405, 16159, 16160, 22332, 7768.
- Antioxidant inactive, superoxide radical scavenging assay** 959, 960, 961, 2805, 6365, 7457, 7478, 9551, 12082, 12420, 13250, 13253, 17548, 17559, 18411, 18925.
- Antioxidant inactive, TBARS assay** 258.
- Antioxidant summary index** 51, 113, 309, 361, 398, 508, 577, 580, 679, 680, 759, 778, 779, 780, 845, 856, 911, 912, 959, 960, 961, 962, 1074, 1091, 1174, 1175, 1466, 1476, 1492, 1497, 1513, 1562, 1564, 1650, 1651, 1652, 1663, 1845, 1928, 1935, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1971, 2073, 2107, 2134, 2135, 2136, 2311, 2312, 2380, 2490, 2539, 2564, 2685, 2805, 2859, 2887, 2909, 2912, 3004, 3029, 3064, 3065, 3066, 3067, 3068, 3069, 3141, 3162, 3222, 3289, 3291, 3301, 3303, 3308, 3370, 3389, 3475, 3490, 3493, 3517, 3544, 3551, 3674, 3680, 3681, 3745, 3754, 3756, 3775, 3829, 3831, 3832, 3850, 3870, 3871, 3980, 3983, 3984, 4195, 4196, 4199, 4200, 4201, 4202, 4225, 4243, 4298, 4385, 4386, 4387, 4398, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4604, 4611, 4612, 4613, 4630, 4631, 4830, 4920, 4930, 4940, 5008, 5227, 5229, 5276, 5279, 5353, 5414, 5484, 5521, 5588, 5725, 5726, 5729, 5730, 5731, 5763, 5791, 5926, 5928, 5929, 5930, 5932, 6002, 6003, 6004, 6074, 6081, 6086, 6105, 6108, 6148, 6200, 6302, 6344, 6365, 6623, 6624, 6625, 6626, 6627, 6700, 6701, 6718, 6767, 6819, 6853, 6854, 6860, 6861, 6863, 6865, 6921, 6923, 6942, 7280, 7305, 7306, 7307, 7405, 7405, 7432, 7457, 7518, 7557, 7591, 7701, 7702, 7746, 7768, 7788, 7825, 7826, 7883, 7924, 7925, 7926, 7974, 7991, 8051, 8095, 8136, 8210, 8211, 8218, 8219, 8221, 8235, 8246, 8278, 8330, 8423, 8426, 8427, 8501, 8504, 8505, 8506, 8545, 8546, 8547, 8833, 8844, 8845, 8869, 8870, 8871, 8872, 8873, 8914, 9003, 9053, 9054, 9055, 9056, 9057, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 9189, 9190, 9240, 9241, 9242, 9243, 9257, 9258, 9275, 9276, 9347, 9376, 9383, 9386, 9423, 9502, 9550, 9551, 9605, 9626, 9631, 9706, 9723, 9757, 9811, 9818, 9857, 9869,

- 10038, 10077, 10185, 10231, 10272, 10276, 10314, 10351, 10362, 10376, 10377, 10434, 10442, 10542, 10694, 10695, 10751, 10883, 10884, 10885, 10887, 10893, 10929, 10930, 10932, 10933, 11152, 11154, 11158, 11165, 11171, 11172, 11195, 11266, 11324, 11327, 11434, 11462, 11477, 11514, 11564, 11642, 11648, 11654, 11658, 11669, 11672, 11683, 11694, 11703, 11704, 11732, 11735, 12018, 12020, 12020, 12032, 12033, 12052, 12053, 12060, 12062, 12070, 12082, 12178, 12258, 12391, 12392, 12420, 12510, 12682, 12683, 12684, 12685, 12686, 12687, 12688, 12689, 12690, 12691, 12695, 12696, 12697, 12698, 12701, 12702, 12766, 12771, 12817, 12818, 12821, 12822, 12823, 12925, 13054, 13088, 13107, 13212, 13249, 13250, 13253, 13291, 13292, 13296, 13331, 13361, 13370, 13438, 13479, 13481, 13492, 13514, 13572, 13581, 13637, 13872, 13975, 14210, 14261, 14489, 14556, 14711, 14969, 14988, 14997, 15170, 15202, 15204, 15278, 15279, 15342, 15448, 15525, 15719, 15766, 15805, 15809, 16050, 16159, 16160, 16170, 16171, 16172, 16174, 16175, 16179, 16180, 16182, 16246, 16252, 16253, 16258, 16399, 16531, 16532, 16540, 16545, 16633, 16680, 16681, 16725, 16728, 16763, 16765, 16836, 16983, 16994, 17012, 17048, 17053, 17173, 17229, 17278, 17283, 17285, 17344, 17352, 17352, 17416, 17460, 17486, 17489, 17491, 17507, 17508, 17510, 17511, 17517, 17518, 17519, 17548, 17553, 17554, 17869, 17876, 17876, 17884, 17884, 17886, 17895, 18086, 18169, 18306, 18307, 18310, 18316, 18317, 18323, 18330, 18335, 18336, 18361, 18365, 18368, 18376, 18378, 18400, 18401, 18402, 18403, 18411, 18414, 18584, 18643, 18682, 18925, 19056, 19087, 19201, 19203, 19206, 19277, 19299, 19419, 19452, 19531, 19532, 19542, 19562, 19572, 19573, 19587, 19618, 19619, 19777, 19781, 19819, 19846, 19883, 19885, 19903, 19923, 20121, 20122, 20150, 20310, 20324, 20389, 20424, 20425, 20426, 20451, 20452, 20453, 20454, 20501, 20556, 20566, 20696, 20806, 20840, 20900, 20901, 20910, 21082, 21083, 21105, 21119, 21125, 21130, 21157, 21320, 21321, 21357, 21360, 21369, 21392, 21396, 21397, 21415, 21417, 21453, 21477, 21478, 21479, 21480, 21500, 21634, 21691, 21711, 21737, 21745, 21749, 21763, 21768, 21771, 21808, 21955, 22180, 22181, 22183, 22184, 22185, 22186, 22187, 22188, 22239, 22306, 22332, 22336, 22416, 22417, 22418, 22505, 22524, 22565, 22566, 22581, 22594, 22595, 22667, 22718, 22759, 22760, 22775.
- Antioxidant, ABTS^{•+} radical quenching activity** 16531.
- Antioxidant, against oxidative toxicity induced by glutamate, PC12 cells** 19587.
- Antioxidant, amelioration of freeradical-Induced oxidative stress of endothelial cells** 17460.
- Antioxidant, antihemolytic** 1928, 8818, 13055, 15439, 16071, 16080, 16763.
- Antioxidant, antihemolytic, AAPH-induced hemolysis of RBC** 580, 1492, 1497, 12817, 12818, 12821, 12822, 12823, 16252, 16253.
- Antioxidant, antihemolytic, free-radical induced lysis of rat RBC** 2887, 3308, 6853, 17876.
- Antioxidant, antihemolytic, free-radical induced lysis of RBC** 13054.
- Antioxidant, antihemolytic, H₂O₂-induced hemolysis of RBC** 8501, 12766.
- Antioxidant, antihemolytic, rat plasma** 2887.
- Antioxidant, attenuates Fe²⁺-induced oxidation of cell membrane** 17460.
- Antioxidant, chemiluminescence method** 3551, 2909, 18317, 2887, 19087.
- Antioxidant, Cytochrome-C reduction** 11642, 18335, 18336, 18365, 19087, 11654, 12032.
- Antioxidant, DCFH method, HL-60cells** 1845, 4920, 6942, 7746, 10077, 21105, 21771.
- Antioxidant, DPPH scavenger** 508, 580, 679, 680, 856, 911, 912, 960, 961, 1091, 1091, 1466, 1476, 1562, 1564, 1650, 1651, 1652, 1845, 1845, 1845, 1845, 1845, 1845, 1845, 1845, 1935, 2135, 2312, 2380, 2490, 2685, 2887, 2887, 2909, 3029, 3162, 3222, 3301, 3303, 3308, 3308, 3370, 3475, 3517, 3544, 3551, 3551, 3551, 3674, 3850, 3870, 3871, 3980, 4196, 4200, 4202, 4405, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4930, 5008, 5227, 5229, 5279, 5484, 5521, 5763, 5763, 5791, 5926, 6002, 6003, 6004, 6074, 6081, 6108, 6623, 6624, 6625, 6627, 6700, 6701, 6718, 6767, 6819, 6853, 6853, 6853, 6853, 6854, 6860, 6861, 6863, 6921, 6923, 7405, 7432, 7445, 7478, 7518, 7557, 7768, 7768, 7991, 8051, 8095, 8218, 8218, 8219, 8235, 8246, 8278, 8504, 8505, 8506, 8545, 8845, 9003, 9240, 9241, 9242, 9257, 9258, 9275, 9276, 9502, 9550, 9818, 9857, 10185, 10272, 10314, 10377, 10434, 10694, 10695, 10887, 11152, 11154, 11158, 11165, 11171, 11172, 11477, 11514, 11564, 11642, 11642, 11642, 11642, 11654, 11704, 11732, 12018, 12018, 12020, 12020, 12032, 12033, 12052, 12060, 12062, 12420, 12510, 13088, 13249, 13250, 13253, 13291, 13296, 13361, 13479, 13479, 13481, 13492, 13872, 13975, 14489, 14556, 14711, 14969, 14988, 15170, 15202, 15448, 15719, 15805, 15809, 16159, 16160, 16174, 16179, 16246, 16258, 16399, 16680, 16681, 16725, 16728, 16765, 17053, 17173, 17283, 17285, 17352, 17518, 17519, 17553, 17554, 17869, 17876, 17884, 17884, 17886, 18169, 18306, 18307, 18310, 18316, 18317, 18317, 18317, 18317, 18317, 18317, 18330, 18335, 18336, 18365, 18376, 18378, 18400, 18401, 18402, 18403, 18414, 18584, 18643, 19056, 19087, 19087, 19087, 19087, 19087, 19277, 19299, 19452, 19618, 19618, 19883, 19885, 20150, 20310, 20501, 20556, 20696, 20806, 20910, 21082, 21083, 21125, 21396, 21397, 21415, 21415, 21417, 21453, 21500, 21634, 21691, 21808, 22180, 22181, 22183, 22184, 22185, 22186, 22187, 22188, 22306, 22332, 22332, 22416, 22417, 22418, 22524, 22565, 22566, 22581, 22594, 22595, 22759, 22760.
- Antioxidant, DPPH scavenger, TLC** 1845, 8095, 8330, 16545, 18317, 21119, 21415, 21737, 21745, 21749.
- Antioxidant, ferric thiocyanate method** 5279, 10185, 22565, 22566, 22594, 22595, 6148, 4830, 22306, 7591, 3745, 580, 11195.
- Antioxidant, free radical scavenger, no description on type of free radical** 1174, 1175, 4631, 7924, 7926, 8833, 8844, 11266, 12766, 13212, 17344, 19203, 19846, 21360.
- Antioxidant, H₂O₂ scavenger** 9257, 9258, 9275, 9276, 20901.
- Antioxidant, H₂O₂/horseradish peroxidase assay** 10933.
- Antioxidant, hydroxyl radical scavenger** 1845, 4298, 4385, 4386, 4387, 6081, 6200, 6923, 7280, 9605, 9631, 13331, 16170, 16171, 16172, 17510, 17511, 19572, 19573, 20566, 20900, 20901, 21130.
- Antioxidant, inhibits formation of active oxygen** 1928.
- Antioxidant, inhibits formation of superoxide in macrophage** 22239.

- Antioxidant, inhibits formation of MDA, mitochondria of mus heart** 17876.
- Antioxidant, inhibits H₂O₂-induced oxidative stress and DNA oxidative damage, cultured MDCK cells** 3303.
- Antioxidant, inhibits lipid peroxidation, ADP/Fe²⁺-induced** 3141, 5588, 17229, 21415.
- Antioxidant, inhibits lipid peroxidation, adriamycin- induced** 1937, 1938, 1939, 1940, 1941, 1942, 1943, 20121, 20122.
- Antioxidant, inhibits lipid peroxidation, brain tissue, caused by insufficient oxygen and sugar** 7788.
- Antioxidant, inhibits lipid peroxidation, caused by CCl₄** 1971.
- Antioxidant, inhibits lipid peroxidation, cephalopin** 8278, 13088, 18685, 19450.
- Antioxidant, inhibits lipid peroxidation, cytoblast and microsome in hepatic cells** 5414.
- Antioxidant, inhibits lipid peroxidation, effects on plasma oxidation after incubation with Fe²⁺/H₂O₂** 13581.
- Antioxidant, inhibits lipid peroxidation, enzymatic lipid peroxidation** 21392.
- Antioxidant, inhibits lipid peroxidation, hepatic cell mitochondria in cats** 16765.
- Antioxidant, inhibits lipid peroxidation, induced by vitamin C- nicotinamide ADP and Fe²⁺-cysteine in microsome of murine cerebral, hepatic and renal cells** 4631, 12420, 19201.
- Antioxidant, inhibits lipid peroxidation, linoleic acid emulsion** 9257, 9258, 9275, 9276.
- Antioxidant, inhibits lipid peroxidation, macrosome of liver cells in rat** 962, 3303.
- Antioxidant, inhibits lipid peroxidation, microsome** 3754, 16763.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat** 3493, 3831, 3832, 3829, 10038, 13438, 16836.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, ADP+NADPH-induced** 17507, 17508, 17510, 21157.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, FeSO₄+cysteine-induced** 1497.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, CCl₄-induced** 1497.
- Antioxidant, inhibits lipid peroxidation, microsome, induced by Fe²⁺/VC, CCl₄/NADPH, or Fe³⁺/NADPH** 20324.
- Antioxidant, inhibits lipid peroxidation, microsome, induced by ferrous-cysteine** 9063, 9064, 9065, 9066, 21415.
- Antioxidant, inhibits lipid peroxidation, microsome, NADPH-dependent lipid peroxidation and autoxidation of linoleic acid** 1562, 1564, 6863, 8051.
- Antioxidant, inhibits lipid peroxidation, mitochondria** 3756.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat** 759, 962, 3490, 16836.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, ADP/NADPH-induced** 8914, 18643.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, Fe²⁺/VC-induced** 8914.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, FeSO₄-induced** 11703.
- Antioxidant, inhibits lipid peroxidation, mus liver** 15204.
- Antioxidant, inhibits lipid peroxidation, no description on target tissue and method** 8870, 11648, 13250, 13253, 13514, 16983, 17278, 17283, 17285, 17352, 17517, 17519, 18643, 21320, 21321, 21415, 22505.
- Antioxidant, inhibits lipid peroxidation, rat brain homogenate** 6086, 6105, 9189, 9190, 12682, 12683, 12684, 12685, 12686, 12687, 12688, 12689, 12690, 12691, 12695, 12696, 12697, 12698, 12701, 12702.
- Antioxidant, inhibits lipid peroxidation, rat cytoblast in liver cells** 11735.
- Antioxidant, inhibits lipid peroxidation, rat heart and liver mitochondria** 9631.
- Antioxidant, inhibits lipid peroxidation, rat hepatic homogenate, caused by H₂O₂** 8427.
- Antioxidant, inhibits lipid peroxidation, rat hepatocyte membrane, effects on Fe³⁺/ascorbate-induced lipid peroxidation** 13581.
- Antioxidant, inhibits malondialdehyde (MDA)** 845, 9053, 9054, 9055, 9056, 9057, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 9869, 12391, 12392, 21415, 21415, 21415.
- Antioxidant, inhibits NOR1 (nitric oxide donor) action** 778, 779, 780.
- Antioxidant, inhibits *t*-BuOOH induced luminescence, mus hepatic homogenate** 11327.
- Antioxidant, iron chelating assay** 9257, 9258, 9275, 9276, 12420, 14556.
- Antioxidant, iron/ascorbate system for antioxidative potency (AOP) determination** 9376, 9383, 9386.
- Antioxidant, LDL peroxidation inhibitor** 13212, 13292, 17884, 19419.
- Antioxidant, LDL peroxidation inhibitor, Cu⁺²-induced** 6002, 6003, 6004, 11694, 12420, 12925, 17460, 19201, 19206, 21477, 21478, 21479, 21480.
- Antioxidant, LDL peroxidation inhibitor, Cu⁺²-induced and AAPH-induced** 580, 7925, 1663, 2134, 2912.
- Antioxidant, linoleic acid solution** 5725, 5726, 5729, 5730, 5731.
- Antioxidant, lipid peroxidation assay, enzyme-dependent** 3068, 3064, 14210, 3065, 3069, 12420, 3066, 3067.
- Antioxidant, lipid peroxidation assay, enzyme-independent** 3064, 3065, 3066, 3067, 3068, 3069, 12420, 14210, 21392.
- Antioxidant, minimizes loss of cell viability in endothelial cells** 17460.
- Antioxidant, no description on experimental method** 309, 361, 398, 580, 1074, 2564, 2859, 3368, 3680, 3681, 4225, 4398, 6302, 7521, 10351, 11195, 11266, 12771, 13370, 14261, 14997, 15278, 15279, 16532, 16540, 17486, 17489, 17491, 17886, 18643, 19781, 19819, 19903, 20451, 20452, 20453, 20454, 21415, 22718.
- Antioxidant, oxygen free radical scavenger** 1938, 19201, 20901.
- Antioxidant, PEP inhibitor** 5791, 9561, 11648, 18682.
- Antioxidant, peroxide formed from polymorph** 10893.
- Antioxidant, peroxidization of rbt erythrocytic membrane** 3303, 18323.
- Antioxidant, peroxidized anion scavenger** 17895.
- Antioxidant, PMN cellular chemiluminescence assay** 10883, 10929, 10932, 10930, 10933, 10885, 10884, 16633, 18317.
- Antioxidant, prevents oxidation of unsaturated fatty acid components to stabilize cell membranes** 21415.
- Antioxidant, rat brain, effect on conjugated diene formation of LDL or MDA level** 3984, 6344, 19923, 21955.

- Antioxidant, reduces oxidative burst FMLP-induced** 18317, 10883.
- Antioxidant, reduces risk of atherosclerosis** 17460.
- Antioxidant, reversed H₂O₂/FeSO₄-induced impairment of endothelium in rat aorta** 17460.
- Antioxidant, SOD-like activity** 1845, 3301, 3303, 5521, 7518, 8505, 8506, 16765, 19056, 19277, 20310, 20389, 20910.
- Antioxidant, superoxide anion radical scavenger** 1845, 1939, 1941, 3289, 3291, 3308, 3754, 4385, 4386, 4387, 6081, 6200, 6923, 7280, 8872, 8873, 9605, 11672, 12258, 12420, 16170, 16171, 16172, 17278, 17278, 17283, 17285, 17352, 17510, 18643, 18643, 19531, 19532, 19573, 20556, 20566, 21369, 21415.
- Antioxidant, superoxide anion radical scavenger, cytochrome C assay** 10933.
- Antioxidant, superoxide anion radical scavenger, hmn neutrophils, stimulated by fMLP/Cbor PMA** 5353, 16050.
- Antioxidant, superoxide anion radical scavenger, inhibits superoxide anion generation, fMLP/CB method** 5930, 5932, 10542, 9757, 5928, 15766, 9723, 10276, 5929, 9706.
- Antioxidant, superoxide anion radical scavenger, protects myocardial ischemia-reperfusion injury in rat myocardium mitochondrial membrane** 4630.
- Antioxidant, superoxide anion radical scavenger, superoxide dismutase method** 5763, 7432, 12020, 12052, 12062, 13479, 14711, 18317, 18323, 18361, 18376, 19087.
- Antioxidant, superoxide radical scavenger** 4930, 7445, 9257, 9258, 9275, 9276, 9550, 14489, 14556, 16174, 16175.
- Antioxidant, superoxide scavenger** 5791, 8869, 8870, 8871, 22505.
- Antioxidant, thiobarbituric acid reactive substance (TBARS) assay, inhibits peroxidation of linolenic acid** 10377, 10376, 21808.
- Antioxidant, up-regulates 50 genes and down-regulates many others** 10887.
- Antiparasite** 16266.
- Anti-phage** 12221.
- Antipneumocystis agent** 2376.
- Anti-pregnancy** 23021.
- Antiprotozoal** 2303, 3094, 3968, 8304, 8128, 11541, 11851, 14906, 18939, 19819, 22282.
- Antipyretic** 304, 554, 651, 1283, 1520, 1901, 1964, 2106, 2303, 2676, 3220, 3588, 3689, 3693, 3809, 3907, 4421, 4614, 4876, 5108, 5436, 6618, 6767, 7481, 7521, 7523, 8010, 8292, 9455, 11882, 12510, 15337, 16451, 16525, 16532, 16966, 19184, 19473, 20002, 20066, 20076, 20444, 20732, 21234, 21508, 21887, 22270, 22384, 22385, 22602, 22938, 23003.
- Antipyretic mechanism involves inhibition of PG synthesis in brain** 7521.
- Antirachitic vitamin** 22558.
- Anti-rejection symptom in skin grafting** 1191.
- Antiretroviral and cytotoxic** 9186, 9612, 13241, 22040.
- Antirheumatic** 8307, 10886, 13391, 16085, 19184, 19427, 22270.
- Anti-rheumatoid arthritis** 5613, 20481.
- Anti-sepsis** 14063, 14064.
- Anti-sepsis inactive** 1184, 1185, 14062, 14065.
- Antiseptic** 2284, 3237, 3318, 3760, 3761, 3762, 8312, 9703, 12436, 12849, 17089, 17602, 17931, 19187, 21360, 21366.
- Anti-seronine** 8395.
- Anti-sickling of cells** 9818, 22332.
- Antispasmodic** 56, 871, 904, 957, 1191, 1287, 1288, 1476, 1502, 1520, 1526, 1614, 1619, 1742, 1935, 1960, 2001, 2298, 2300, 2550, 2657, 2803, 3231, 3243, 3394, 3502, 3633, 3695, 3741, 3745, 3794, 3889, 3915, 4421, 4604, 5036, 5161, 5677, 6507, 6776, 6921, 7230, 7385, 7523, 7703, 7802, 7811, 9184, 9419, 9541, 10872, 11002, 11091, 11504, 11591, 11834, 12184, 12221, 12438, 12535, 12747, 12908, 13137, 13571, 14531, 14820, 14923, 14971, 15266, 15268, 15279, 15449, 16080, 16525, 16770, 16966, 17013, 17036, 17174, 18165, 19085, 19195, 19354, 19355, 19356, 19388, 19473, 19542, 19706, 19712, 19933, 19934, 20140, 20148, 20324, 21060, 21077, 21263, 21362, 21511, 22195, 22269, 22282, 22314, 22350, 22530, 22552, 22553, 22581, 22718, 22768, 22774, 22781, 22882.
- Antispirochetic** 4116, 5152, 6776.
- Anti-stimulation** 21350.
- Anti-stress** 86, 3751.
- Anti-sweetener** 2271, 11904, 11905, 11906, 11911, 20037, 23016, 23017, 23018.
- Antithrombotic** 10, 920, 921, 2102, 2266, 5440, 6700, 7978, 10684, 12420, 15635, 17568, 17978, 18378, 20009, 20121, 20686, 21157, 22497.
- Antitoxin** 2106, 3760, 3774.
- Anti-*Trichomonas vaginalis*** 576, 2061, 2615, 7323, 8047, 9809, 9810, 11203, 14728, 18627, 19414, 22282.
- Antitrypanosomal** 9235, 12501, 15881, 16555, 21397, 14728, 18094.
- Antitrypanosomal inactive (*Trypanosoma brucei*)** 4866.
- Antitrypanosomal inactive (*Trypanosoma brucei rhodesiense*)** 10159.
- Antitrypanosomal inactive (*Trypanosoma cruzi*)** 4866, 10159, 12845, 12846, 13729, 15716, 19983.
- Antitrypanosomal (*Castellanella gambiense*)** 7323.
- Antitrypanosomal (*Trypanosoma brucei rhodesiense*)** 580, 589, 815, 816, 1141, 1145, 1146, 1147, 1241, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3306, 3551, 3609, 3674, 4478, 4982, 5675, 6776, 7925, 8325, 9750, 11148, 11195, 11978, 12916, 13297, 14222, 16067, 16068, 17478, 18221, 19568, 19960, 22409, 22410, 22551.
- Antitrypanosomal (*Trypanosoma brucei*)** 506, 15716.
- Antitrypanosomal (*Trypanosoma brucei brucei*)** 585, 3293, 5417, 10310, 12232, 12487, 19234, 19235, 19542, 20369.
- Antitrypanosomal (*Trypanosoma cruzi*)** 184, 227, 376, 506, 580, 815, 816, 1141, 1145, 1146, 1147, 1241, 1460, 1842, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3258, 3306, 3551, 3609, 3674, 3761, 3762, 4088, 4204, 4205, 4478, 4891, 5477, 5675, 6348, 6759, 6776, 7925, 8004, 8325, 8979, 9031, 9032, 9033, 9072, 9727, 9728, 9729, 9732, 9750, 10296, 10297, 11148, 11195, 11978, 12497, 12842, 12916, 13719, 13720, 13721, 13722, 13905, 14222, 14384, 16050, 16067, 16068, 16604, 16711, 17006, 17478, 17851, 18187, 18188, 18221, 19568, 19636, 19753, 19960, 21390, 22270, 22551, 22579, 22580, 22963.
- Antitrypanosomal (*Trypanosoma equiperdum*)** 7323.
- Antitussive** 1618, 1866, 2274, 2312, 2557, 3237, 3588, 3615, 3885, 5178, 6776, 7996, 8347, 9315, 9564, 10887, 11507, 12446, 13137, 15146,

- 15263, 15460, 15469, 16623, 17283, 17456, 19955, 19983, 20307, 22086, 22087.
- Antitussive inactive** 6839, 10188.
- Antitussive, dispels phlegm** 10819, 9021, 9617, 10137, 11966, 15614, 17377, 17384, 17567, 17813, 19715, 663, 834, 1094, 1097, 1935, 2678, 3400, 4550, 6482, 6772, 7944, 9564, 12843, 13264, 14531, 15170, 11524, 13574, 13610, 13611, 17376, 18095, 18317, 18816, 20254, 17505, 19542, 7736, 5763, 20987, 17568.
- Ant ulcerative** 10, 140, 195, 777, 1287, 1476, 2071, 2887, 3308, 4873, 4889, 4893, 4941, 5665, 6990, 8297, 8524, 8841, 8965, 11504, 11808, 12908, 13388, 13492, 13678, 15705, 15882, 16085, 16505, 16525, 16693, 16694, 17220, 17546, 17549, 17550, 17551, 17552, 17886, 19332, 19388, 19422, 19423, 19424, 20082, 20205, 20444, 20711, 20714, 22270.
- Anti-venom** 2887, 5763.
- Antiviral inactive summary index** 2994, 2995, 4225, 10681, 11350, 14261, 14847, 14848, 14849, 21509, 21509, 21510, 21510.
- Antiviral inactive, HSV-1 virus** 6230, 6298, 10681, 13250, 13251, 14321, 16500, 21509, 21510.
- Antiviral inactive, HSV-2 virus** 10681, 21509, 21510.
- Antiviral inactive, MDCK cells, Flu-A virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral inactive, Vero cells, HSV-1 virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral inactive, Vero cells, HSV-2 333 virus** 4225, 11350, 14261, 14847, 14848, 14849.
- Antiviral inactive, Vero cells, HSV-2 virus** 2994, 2995.
- Antiviral summary index** 26, 736, 740, 784, 1372, 2044, 2811, 2865, 2866, 2867, 2868, 2869, 2887, 2892, 3094, 3197, 3198, 3300, 3308, 3498, 3502, 3551, 3588, 3622, 3623, 3875, 3909, 4048, 4354, 5093, 5161, 5613, 6272, 6402, 6551, 6772, 7323, 7518, 7833, 8095, 8246, 8307, 8423, 8424, 8427, 8458, 8846, 8967, 9194, 9456, 9458, 10059, 10589, 10681, 10886, 11086, 11129, 11524, 11569, 11703, 11903, 11978, 11980, 12070, 12420, 12733, 12828, 12849, 13053, 13055, 13137, 13239, 13241, 13481, 13863, 14728, 14965, 14971, 15286, 15439, 15462, 15849, 15881, 16003, 16071, 16080, 16268, 16498, 16499, 16500, 16511, 16555, 16599, 16601, 16777, 16793, 17216, 17217, 17337, 17341, 17342, 17574, 17578, 17579, 17580, 17581, 17582, 17592, 17593, 17896, 17952, 18028, 18050, 18251, 18272, 18317, 18376, 18411, 18770, 18771, 18824, 18868, 18916, 19087, 19142, 19148, 19211, 19777, 19819, 19900, 20253, 20307, 20369, 20434, 20578, 20670, 21059, 21089, 21328, 21508, 21698, 21862, 22215, 22216, 22721, 22863.
- Antiviral, Asia α -Influenza virus** 16555.
- Antiviral, Bunya virus** 16601.
- Antiviral, chicken ES4 virus** 12849.
- Antiviral, chickenpox virus** 8846.
- Antiviral, Cocksackie virus** 13241.
- Antiviral, Cxsackie-B virus** 14728.
- Antiviral, cytomegalovirus CMV(hmn)** 18770, 18771.
- Antiviral, cytomegalovirus CMV(mus)** 11978, 18770, 18771.
- Antiviral, EBV virus** 8246, 16599.
- Antiviral, EMC virus = Casrdiovirus** 18050.
- Antiviral, encephalitis B virus** 9194.
- Antiviral, encephalitis B virus in mouse** 5161.
- Antiviral, encephalitis B virus in mouse, RNA virus** 16601.
- Antiviral, endomyocarditis virus** 13239.
- Antiviral, epidemic type-1 poliomyelitis virus-1** 6402, 18376.
- Antiviral, Gesak virus** 17216, 17217.
- Antiviral, Gesak-B₄ virus** 6402, 18376.
- Antiviral, *H. suis* virus** 13137.
- Antiviral, Hep2 cells infected by Para-3 virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral, Hep2cells infected by respiratory syncytial virus RSV** 16080.
- Antiviral, hepatitis B virus HBV in blood products** 3588.
- Antiviral, herpes zoster virus** 8846.
- Antiviral, herpesvirus** 13863, 14971.
- Antiviral, herpesvirus A** 13241.
- Antiviral, herpetic stomatitis RNA virus** 16268.
- Antiviral, hmn coronavirus strain 229E (HCoV-229E)** 11086, 18251.
- Antiviral, hmn T-lymphocytes-phil virus III HTLV-III** 3588.
- Antiviral, hmn T-lymphocytes-phil virus III HTLV-III** 3588.
- Antiviral, HSV virus** 7518, 11524, 12420, 13481, 17216, 17217, 17593, 19148.
- Antiviral, HSV/CV-1 virus** 17337, 17341, 17342.
- Antiviral, HSV-1 virus** 163, 422, 736, 740, 1372, 3875, 5303, 5613, 6551, 10059, 10589, 11129, 11569, 13098, 15462, 16499, 16511, 16793, 17337, 17592, 17896, 18868, 20253, 21059, 21508, 21724, 22721.
- Antiviral, HSV-1, DNA virus** 16268.
- Antiviral, HSV-2 virus** 736, 740, 6551, 10059, 16500, 10589, 15462, 16499, 17574, 17900, 18272, 21059.
- Antiviral, influenza virus** 3909, 8095, 9194, 11703, 15881, 19777.
- Antiviral, influenza virus A** 661, 8967, 11903, 18411.
- Antiviral, influenza virus A₂** 19142.
- Antiviral, influenza virus B** 11903.
- Antiviral, influenza virus sialoma inhibitor** 19211.
- Antiviral, inhibits biosynthesis of RNA** 4048, 13239.
- Antiviral, inhibits infection from RDV virus in young chicken embryo** 16003.
- Antiviral, inhibits infection of herpes simplex virus 2 in mus genital** 17216, 17217.
- Antiviral, inhibits replication of HSV-1** 2811, 8423, 8427, 8424, 19537.
- Antiviral, Japanese encephalitis virus** 8967, 18050.
- Antiviral, jockos, inactivator to hepatitis B virus HBV** 3588.
- Antiviral, Mayaro virus** 17952.
- Antiviral, measles virus** 1372, 16793, 17337, 17592, 19148.
- Antiviral, Mengo virus** 14728.
- Antiviral, meningitis virus** 18050.
- Antiviral, Newcastle disease virus** 9194.
- Antiviral, no explanation of virus species** 26, 784, 2044, 2887, 2892, 3094, 3197, 3198, 3300, 3308, 3498, 3502, 3551, 3622, 4354, 5093, 6772, 7323, 7833, 8307, 8423, 8424, 8427, 9456, 9458, 12070, 14965, 15849, 16498, 16777, 18317, 18824, 18916, 19819, 19900, 20307, 20434, 20670, 21328, 21862, 22863.
- Antiviral, non-A non-B hepatitis virus NANB** 3588.

- Antiviral, Para-3 virus** 661, 2865, 2866, 2867, 2868, 2869, 20369, 22215, 22216.
- Antiviral, poliomyelitis I virus** 18868.
- Antiviral, poliomyelitis virus** 11569, 12733, 13241, 17952, 20578.
- Antiviral, potato virus** 14971.
- Antiviral, poxvirus** 14728.
- Antiviral, PR₈ virus** 8967.
- Antiviral, pseudolyssa virus** 14728.
- Antiviral, respiratory syncytial virus RSV** 661, 22215, 22216.
- Antiviral, reverse transcriptive virus** 10886, 18028.
- Antiviral, rhinovirus II** 3623.
- Antiviral, Sendai virus** 19777.
- Antiviral, Sindbis virus** 11978.
- Antiviral, tobacco masaic virus** 8458.
- Antiviral, tobacco mosaic virus TMV** 6272.
- Antiviral, vaccinia virus** 9194, 12733.
- Antiviral, Vero cells infected by HSV-1 virus** 17578, 17579, 17580, 17581, 17582, 21089, 21698.
- Antiviral, vesicular stomatitis virus** 15286, 18411, 19087.
- Antiviral, vesicular stomatitis virus VSV** 17216, 17217.
- Antiviral, vesicular stomatitis virus VSV** 11569, 11978, 11980.
- Antiviral, vesicular stomatitis virus VSV/BHK** 17337, 17341, 17342.
- Antiviral, yellow fever virus** 16601.
- Anxiolytic** 2016.
- Anxiolytic and antidepressant** 8524.
- Aphrodisiac** 14057.
- APN inhibitor inactive** 6757, 8095, 11642, 10887, 18411, 16011, 18358, 18371, 21392.
- Apoptosis enhancer** 10287.
- apoptosis inducer** 1307, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8535, 8536, 8541, 8542, 8543, 8544, 16050, 20811.
- apoptosis inducer inactive** 6689.
- Arachidonic acid 5-lipoxidase selective inhibitor** 3743.
- Arachidonic acid oxidase inhibitor** 14995.
- Aromatase inhibitor** 51, 846, 2635, 2647, 5086, 5746, 7485, 8262, 10506, 11490, 14964, 15279, 15934, 20326, 21116, 21151.
- Aromatase inhibitor inactive** 1764, 2172, 2629, 2630, 2648, 2650, 2651, 4108, 5894, 6001, 6088, 6102, 6103, 8141, 10445, 12681, 13571, 14956, 14961, 14962, 18643, 21086, 21117, 21128.
- Aromatic bitter** 3248.
- Aromatic L-amino-acid decarboxylase inhibitor** 17278.
- Astringent** 660, 909, 917, 1654, 7882, 8095, 17813, 21955.
- Attractant for many plant-eating insects** 9522.
- Attracts adult male dayfly (*Chrysopa septempunctata*)** 15434.
- BACE1 inhibitor** 9561.
- BChE inhibitor** 2233, 2815, 4516, 4532, 4542, 4996, 5828, 6159, 7082, 7128, 7177, 7210, 7381, 7381, 7835, 7928, 8009, 9200, 9201, 11002, 11004, 11291, 12834, 12835, 14449, 15322, 15323, 16988, 21374, 22700.
- BChE inhibitor inactive** 5739, 7213.
- Benzedrine antagonist** 16451.
- Benzodiazepine receptor agonist** 14865.
- Bidirectional action to blood pressure (first increases and then lowers blood pressure, while heart rate slows)** 8423, 8424, 8426, 8428, 8429, 8430.
- Bidirectional action to blood pressure (first increases and then lowers blood pressure, while heart rate slows)** 20100.
- Bidirectional action to blood vessel (dilates at low concentration and contracts at high concentration)** 4036.
- Bidirectional action to blood vessel (when dose less than 40nmol relaxes blood vessel, when dose over 40nmol contracts blood vessel)** 15317.
- Bidirectional action to CNS system (central sedation at low dose, central stimulation at moderate dose and paralytic death at high dose)** 8297.
- Bidirectional action to CNS system (central stimulation at high dose and sedation at low dose)** 651.
- Bidirectional action to CNS system (first stimulation and then inhibition)** 3220, 11202, 19388.
- Bidirectional action to CNS system (stimulation in low dose, inhibition in high dose)** 20069.
- Bidirectional action to drowsiness (excitation in low dose and inhibition in high dose)** 15129.
- Bidirectional action to heart (first stimulates and then inhibits)** 13237.
- Bidirectional action to heart (inhibits first and then stimulates)** 11851.
- Bidirectional action to nerve system (motor depressant in low dose and causes convulsion in high dose)** 9234.
- Bidirectional action to neuromuscular transmission (in high dose, first enhances and then inhibits)** 21593.
- Bidirectional action to potassium channel in myocardium membrane** 19201.
- Bidirectional action to sympathetic nerve (excites sympathetic fibers in low dose and inhibits them in high dose)** 22397.
- Bile secretion promoter** 2887, 1742, 20734, 2538, 4135, 15279, 17983, 22346, 22397, 5161, 4249.
- Binding activity to benzodiazepine receptor** 1476, 3745, 8090, 9564, 14085, 20577.
- Bioactive in connection with plant photosynthesis and path of respiration** 17515.
- Biosynthesis of DNA, promoter** 9456.
- Biosynthesis of DNA, protein and lipid, promoter** 8423, 8424, 8426, 8430.
- Biosynthesis of rRNA and mRNA in diabetic rat, promoter** 8424.
- Biosynthesis precursor of carthamin** 17771.
- Biosynthetic precursor of some drugs** 18304.
- Bitter principle** 486, 1017, 1779, 3206, 4318, 15286, 15404, 15555, 15652, 15655, 16080, 16551, 16650, 17215, 17705, 18299, 18425, 19184, 20913, 21599.
- Bitter-sweet taste** 8834.
- Blocks nerve** 19431.
- Blocks permeation of sodium through membranes of nerval fibrocyte** 21211.
- Blocks self-discipline nerve** 20496.
- Blocks sympathetic ganglia** 20650.
- Bone marrow cell proliferation promoter** 3308, 6853, 6864, 6921, 6923.
- Bone marrow inhibitor** 3404, 3911.

- Bone resorption inhibitor** 10896, 14698, 15985, 16408, 16409, 20228.
- Bone resorption inhibitor** 6456, 6457, 6458, 19778, 20556.
- Bradykinin antagonist** 20009.
- Ca²⁺-ATPase inhibitor** 18668.
- Caffeine antagonist** 16451.
- Calcitonin gene-related peptide (CGRP) stimulator** 7665.
- Calcium antagonist** 2041, 3935, 5135, 7512, 7721, 8423, 8424, 8426, 9553, 11680, 12916, 13836, 14184, 15321, 15645, 15704, 16711, 20121, 20122, 21077, 21490, 21493, 22144.
- Calcium channel blocker** 2606, 16263.
- Calcium channel receptor inhibitor** 2209.
- Calmodulin-dependent cAMP phosphodiesterase inhibitor** 10564.
- CaM interactor** 4918, 7838, 14639.
- CaM interactor inactive** 9480, 15936, 21038.
- cAMP phosphodiesterase inhibitor** 2102, 2613, 2614, 3160, 3602, 3745, 4898, 4918, 4996, 5250, 6254, 7838, 7924, 7926, 8423, 8424, 8426, 8427, 8833, 8914, 8968, 9331, 9546, 13594, 9681, 9682, 12333, 12344, 12355, 12358, 13145, 14639, 15038, 15455, 15456, 16867, 16989, 16997, 17020, 17305, 17306, 17409, 18219, 18368, 19072, 19259, 19588, 21493, 22720.
- 3',5'-cAMP-phosphodiesterase inhibitor** 18317.
- Cancer cell P-Glycoprotein inhibitor** 7596, 7597, 7598, 7599, 7600, 7601, 7602, 7603, 7604, 7605, 7606, 7607.
- Cancer cell stimulator, MCF7 and T47D cell proliferation** 4418.
- Capillary, enhances capillary permeability** 4319, 13137.
- Capillary, improves barrier of microcirculation** 4630, 10870, 18180.
- Capillary, inhibits increase of blood capillary permeability** 664, 3588, 4097, 5161, 7495, 8297, 15843, 16050, 19087, 19111, 19922, 20066, 20569.
- Capillary, improves osmosis of capillary** 11141.
- Capillary, prevents brittle rupture of blood capillary** 4439, 16900, 17024.
- Capillary, reduces blood capillary brittleness** 12255, 18317, 19087.
- Capillary, reduces effusion of Evan's blue from blood capillary** 5152.
- Carboxylation activity during metabolism of protein and carbohydrate** 2395.
- Carcinogen** 1713, 1835, 3847, 4456, 11189, 12535, 12543, 16657, 17127, 18098, 19121, 19731, 20527.
- Carcinogen assistant** 17187, 18640, 22658.
- Carcinogen promotor** 13476.
- Carcinogen, causes hepatic cancer** 14923.
- Cardiac glycoside** 9335, 9330, 16943, 17002, 19090, 20405.
- Cardiotonic** 377, 1844, 2187, 2190, 2191, 2716, 2728, 3048, 3277, 3278, 3729, 3732, 3942, 4005, 4029, 4036, 4192, 4544, 4547, 5104, 5523, 5526, 5533, 6530, 7296, 7303, 7320, 7342, 7343, 8461, 8968, 10915, 10981, 11524, 16031, 16050, 16084, 18216, 18637, 18785, 19958, 20056, 20140, 20403, 20671, 20730, 20732, 21325, 21326, 21435, 22301, 22629.
- Cardiovascular activity (against damage in cardiac cells)** 19201.
- Cardiovascular activity (against heart failure)** 4108.
- Cardiovascular activity (antiarrhythmic)** 618, 783, 930, 983, 1287, 1667, 2300, 2372, 4543, 4544, 4685, 5136, 7703, 7854, 8423, 8424, 8426, 8427, 9553, 9631, 9738, 11344, 11851, 12510, 12798, 13089, 13836, 15321, 15526, 15658, 15875, 15972, 16080, 16451, 16555, 18180, 18180, 18376, 19955, 20094, 20100, 20732, 21077, 21206, 21263, 21325, 21326, 22404, 22466, 22490.
- Cardiovascular activity (anti-arteriosclerosis)** 2791, 3909, 11834, 13212, 19738, 18165, 19070, 22270.
- Cardiovascular activity (anti-ischemia myocardial)** 2300, 2564, 3761, 3762, 4544, 4630, 4645, 9631, 18180, 22172, 22581.
- Cardiovascular activity (anti-myocardial infarction)** 4630, 9631, 22172.
- Cardiovascular activity (arterial pressure in both types of rats fell substantially, while heart rate of only anaesthetized rats also decreased)** 5569.
- Cardiovascular activity (assists in treatment of heart failure, coronary heart disease, hypertension and arrhythmia)** 22172.
- Cardiovascular activity (Cardioprotective)** 2606, 3633, 8914.
- Cardiovascular activity (causes heart beat to slow and amplitude to increasing in low dose; causes heart paralysis and hypotension in high dose)** 17505.
- Cardiovascular activity (contracts blood vessels, increases blood pressure and stimulates heart)** 15184.
- Cardiovascular activity (electrocardiogram changed)** 11020.
- Cardiovascular activity (enhances amplitude of contraction and reduces frequency of heart beat)** 15288.
- Cardiovascular activity (enhances arterial tension and myocardial contractility)** 9419.
- Cardiovascular activity (enhances cardiac motility)** 5067.
- Cardiovascular activity (enhances collateral circulation and oxygen consumption upon lack of blood in myocardium)** 4604.
- Cardiovascular activity (enhances contractility of main artery)** 20968.
- Cardiovascular activity (enhances myocardial contractility and increases blood flow)** 6559.
- Cardiovascular activity (enhances myocardial contractility and raises heart rate)** 19846.
- Cardiovascular activity (enhances myocardial contractility and reduces scope of contraction)** 6691.
- Cardiovascular activity (enhances myocardial contractility with peripheral anapetia)** 1866.
- Cardiovascular activity (enhances myocardial contractility)** 4108, 4353, 7343, 16555, 16756, 16997, 19639, 20094, 21511, 22237.
- Cardiovascular activity (improves acute myocardial ischemia)** 3633.
- Cardiovascular activity (improves myocardium metabolism and promotes restoration of myocardial function)** 4645.
- Cardiovascular activity (improves peripheral circulation and markedly increases amount of urine)** 6559.
- Cardiovascular activity (increases atrial and ventricular thresholds, also reduces atrial conduction)** 19762.
- Cardiovascular activity (increases cerebral blood flow)** 19540, 19587.
- Cardiovascular activity (increases contractility of atrium);** 16451.
- Cardiovascular activity (increases coronary flow and cerebral blood flow)** 11344.
- Cardiovascular activity (increases coronary flow and slows heart rate)** 4609, 20730.
- Cardiovascular activity (increases coronary flow)** 3633, 4480, 4543,

- 4544, 4604, 4631, 4645, 4889, 5414, 6752, 6753, 7303, 8914, 13137, 14796, 22552.
- Cardiovascular activity (increases coronary flow, reduces consumption of oxygen in myocardium, increases cerebral blood flow, lowers blood pressure, and slows heart rate)** 5750.
- Cardiovascular activity (induces myocardial rhythm)** 14796.
- Cardiovascular activity (inhibits cardiac contraction, causes a prolongation of the latency time and decrease of contraction force)** 4911, 4931, 4932, 4933, 5215, 5869, 7091, 7092, 10071, 10683, 19091, 20162.
- Cardiovascular activity (inhibits cardiac fibrillation)** 21263.
- Cardiovascular activity (inhibits cardiac muscles)** 15321, 21239.
- Cardiovascular activity (inhibits content of free radicals in myocardial cells)** 8424.
- Cardiovascular activity (inhibits contraction of auricular smooth muscle)** 2284.
- Cardiovascular activity (inhibits contraction of blood vessel and cardiac muscle)** 17762.
- Cardiovascular activity (inhibits damage of myocardial cells caused by free radicals)** 11266.
- Cardiovascular activity (inhibits frog heart *in vitro*)** 8289, 8297.
- Cardiovascular activity (inhibits heart and relaxes artery)** 17568.
- Cardiovascular activity (inhibits heart rate)** 18299.
- Cardiovascular activity (inhibits heart)** 643, 3002, 3907, 5435, 6552, 16674, 22153.
- Cardiovascular activity (inhibits malondialdehyde (MDA) formed by abnormality of calcium concentration in cardiac muscle cells)** 8914.
- Cardiovascular activity (inhibits myocardial automatic rhythmicity and contractile power)** 13836.
- Cardiovascular activity (inhibits myocardial contractility)** 117, 304, 2300.
- Cardiovascular activity (inhibits myocardial contraction and calcium antagonist)** 16280.
- Cardiovascular activity (inhibits sino-atrial rate and contraction of atrium papillary muscle in dog)** 16759.
- Cardiovascular activity (makes heart stop in period of relaxation)** 3218.
- Cardiovascular activity (Protects cardiac muscle from lack of blood)** 20688.
- Cardiovascular activity (protects *in vitro* heart from damage during ischemic re-perfusion)** 17762.
- Cardiovascular activity (raises heart rate)** 5067.
- Cardiovascular activity (reduces area of myocardial infarction)** 16555, 20094.
- Cardiovascular activity (reduces consumption of oxygen in myocardium)** 4645, 5763, 14796, 18826.
- Cardiovascular activity (reduces myocardial contractility)** 15396, 18826.
- Cardiovascular activity (reduces resistance of cerebral blood vessels)** 19587.
- Cardiovascular activity (reduces scleratheroma incidence)** 4245.
- Cardiovascular activity (slows heart rate and enhances amount of urine)** 1866.
- Cardiovascular activity (slows heart rate and enhances myocardial contractility)** 9233.
- Cardiovascular activity (slows heart rate)** 554, 983, 1658, 2300, 4912, 7343, 7980, 9232, 11680, 15708, 18165, 18826, 19473, 20061, 20254, 21511.
- Cardiovascular activity (slows heart rate, increases output blood pressure, blood flow in aorta and myocardial contractility)** 9235.
- Cardiovascular activity (stimulates atrium)** 19198.
- Cardiovascular activity (stimulates heart)** 4108, 5445, 20069, 20077, 20100.
- Cardiovascular activity (stimulates heart)** 3588.
- Carminative** 1186, 3237.
- Catechol-*O*-methyltransferase inhibitor** 8278.
- Cathartic** 136, 6262, 13801, 17411, 17413, 17417.
- Causes abortion** 3498.
- Causes acute glomerulus necrosis** 1713.
- Causes allergic reaction (hmn skin)** 19779.
- Causes arrhythmia** 304, 1738, 10875.
- Causes arrhythmia and bradycardia** 8353.
- Causes asthma and nasitis** 17561.
- Causes asthma, convulsion and breath faintness** 22360.
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- Causes convulsion and paralysis** 12562.
- Causes dermatitis** 21402.
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- Causes hmn mammary diseases** 21507.
- Causes hypoglycemia** 14358, 21662.
- Causes involuntary repetitive movement** 3692.
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- Causes mental illness** 6418, 13795, 14583.
- Causes methaemoglobin disease in cattles** 14885.
- Causes miosis** 1654, 1658, 7298, 17253, 17360.
- Causes paralysis, paroxysmal spasm, convulsion and death** 7706.
- Causes paralysis** 4377, 19223.
- Causes paroxysm convulsion and breath inhibition** 5035.
- causes Phalaris blind stagger (sheep)** 8971.
- Causes plant to be infected by *Agrobacterium tumefaciens*** 116.
- Causes progressive paralysis of CNS** 9233.
- Causes pulmonary heart disease** 19902.
- Causes selenium poisoning** 19691.
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- Causes St. George disease (ox)** 19902.
- Causes strong convulsion** 3002.
- Causes tachycardia** 1134.
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- Cell division arrester** 6939, 12130, 12131, 16365.
- Cell growth inhibitor** 8095, 8276.
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- Cell viability** 8788, 12982, 12983.
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- Choleretic** 117, 834, 1742, 1935, 2102, 2106, 2224, 2303, 2538, 2887, 3118, 3551, 3695, 4135, 4245, 4249, 4398, 4564, 5161, 8095, 8273, 9498, 9749, 11428, 13481, 15184, 15279, 16439, 16439, 16623, 16623, 16770, 17983, 19473, 19473, 19540, 20732, 20732, 20734, 22269, 22269, 22346, 22397.
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- Cholinergic** 1658, 5201, 5219.
- Cholinesterase activator** 1036.
- Cholinesterase inhibitor** 6853, 7379, 7380, 8083, 9686, 9687, 10601, 13236, 13255, 14971, 16555, 17253, 19639, 21434, 22349.
- Cholinomimetic** 1658.
- Chymotrypsin inhibitor** 13563, 13564, 13565.
- Chymotrypsin inhibitor inactive** 9561.
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- Components of plant epicyte** 2596, 3040.
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- Controls dormancy of common yam** 2163, 2166.
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- Convulsant** 6552, 12562, 16746.
- corrosion** 7882.
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- Curariform action** 2042, 6699, 7325, 7328, 7330, 12571, 13373, 13374, 13716.
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- Cyclonucleotide phosphodiesterase inhibitor** 710, 4376, 9543, 15278, 18864.
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- 14500, 14613, 14638, 14643, 14697, 14737, 14775, 14776, 14840, 14842, 14846, 14847, 14848, 14849, 14915, 14934, 14935, 14940, 14942, 14995, 15038, 15040, 15042, 15046, 15054, 15055, 15056, 15057, 15082, 15118, 15134, 15152, 15242, 15249, 15279, 15351, 15443, 15483, 15621, 15635, 15719, 15796, 15910, 15931, 15944, 15945, 15946, 15951, 16050, 16067, 16068, 16169, 16177, 16199, 16221, 16222, 16229, 16230, 16231, 16232, 16261, 16296, 16343, 16370, 16373, 16402, 16415, 16550, 16652, 16653, 16665, 16725, 16748, 16754, 16818, 16819, 16820, 16854, 16855, 16867, 16873, 16906, 16966, 17118, 17196, 17197, 17198, 17199, 17244, 17247, 17574, 17611, 17612, 17615, 17696, 17715, 17727, 17846, 17847, 17852, 17871, 17872, 18088, 18114, 18221, 18222, 18224, 18359, 18420, 18425, 18499, 18588, 18682, 18697, 18700, 18701, 18916, 18931, 18945, 18946, 18947, 18948, 18949, 18950, 18978, 18998, 19087, 19174, 19220, 19255, 19256, 19257, 19259, 19268, 19349, 19350, 19522, 19523, 19536, 19540, 19542, 19568, 19571, 19618, 19622, 19652, 19653, 19654, 19655, 19656, 19690, 19795, 19796, 19891, 19960, 19981, 19983, 19985, 19987, 20068, 20070, 20105, 20106, 20117, 20122, 20129, 20237, 20316, 20356, 20362, 20369, 20465, 20493, 20554, 20643, 20697, 20699, 20700, 20701, 20702, 20711, 20712, 20722, 20739, 20765, 20797, 20798, 20803, 20811, 20836, 20840, 20849, 20850, 20851, 20877, 20911, 21027, 21031, 21037, 21082, 21105, 21125, 21135, 21137, 21170, 21358, 21410, 21475, 21498, 21529, 21640, 21709, 21711, 21713, 21724, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807, 21845, 21856, 21857, 21864, 22011, 22013, 22195, 22205, 22206, 22270, 22287, 22299, 22332, 22378, 22379, 22408, 22413, 22460, 22497, 22544, 22545, 22546, 22547, 22551, 22630, 22667, 22736, 22748, 22774, 22781, 22792, 22800, 22801, 22803, 22830, 22962, 22988, 23029.
- Cytotoxic inactive, 1A9** 14934, 14935.
- Cytotoxic inactive, 3LL** 7998, 11569, 14697.
- Cytotoxic inactive, 59 NCI hmn cancer cell lines except HL-60 cell** 17727.
- Cytotoxic inactive, 9KB cells** 22195.
- Cytotoxic inactive, A2780 cells** 1107, 1113, 3125, 3127, 4281, 7025, 7366, 7367, 7764, 8939, 8942, 8944, 10052, 12107, 13097, 16050, 16415, 19220, 20369, 20711, 20712.
- Cytotoxic inactive, A375 cells** 11799.
- Cytotoxic inactive, A498 cells** 1067, 3571, 4722, 4762, 9812, 9961, 20722, 20739, 20765, 20803, 22630, 22781.
- Cytotoxic inactive, A549 cells** 519, 984, 1067, 1367, 1699, 1713, 1718, 1725, 1728, 2856, 3266, 3267, 3268, 3271, 3695, 3829, 3831, 3932, 4169, 4170, 4189, 4310, 4690, 4722, 4762, 4763, 4957, 5062, 5344, 5367, 5368, 5369, 6708, 6761, 7572, 7575, 7777, 7788, 7788, 7788, 7789, 7951, 8027, 8028, 8327, 8328, 9035, 9812, 9961, 10052, 10381, 10558, 12397, 12398, 12587, 12589, 13537, 13674, 13871, 13903, 14072, 14437, 14438, 14439, 14484, 15082, 15249, 15621, 16343, 16402, 19571, 19622, 19690, 19981, 19983, 19983, 19985, 20237, 20356, 20362, 20554, 20739, 20765, 20803, 22299, 22332, 22630, 22781, 22988.
- Cytotoxic inactive, ACHN cells** 3355.
- Cytotoxic inactive, AGS cells** 2101, 12936.
- Cytotoxic inactive, assay to screen for inhibitors of cell division,**
- Xenopus* cells from early *Xenopus laevis* embryo at blastular stage** 12139, 12137.
- Cytotoxic inactive, ATCC: CCRF-CEM murine leukemia cells** 1136, 1137, 1138.
- Cytotoxic inactive, B16 cells** 492, 6427, 6430, 7205, 9474, 9475, 16818, 16819, 16820, 18697, 20697, 20699, 20701, 20702, 21027, 22497.
- Cytotoxic inactive, B16(F-10) cells** 984, 3932, 4169, 4170, 16402, 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, BC cells** 14915, 17846, 17847.
- Cytotoxic inactive, BC-1 cells** 7764, 2048, 3292, 3940, 3941, 8219, 10296, 10510, 13484, 13487, 18682, 21358, 5276.
- Cytotoxic inactive, BCA-1 cells** 13464, 13472, 13467.
- Cytotoxic inactive, Bcap37 cells** 11394, 12536.
- Cytotoxic inactive, Bel7402 cells** 465, 2254, 4987, 5344, 5867, 5975, 5976, 6327, 6689, 7540, 8528, 9629, 10485, 10815, 10816, 10817, 14042, 14168, 16050, 21031, 21640, 22011, 22013.
- Cytotoxic inactive, Bel7405 cells** 8632, 11201.
- Cytotoxic inactive, BGC823 cells** 6689, 8528, 13693, 13699, 13702, 13703, 13704, 13706, 13707, 20811.
- Cytotoxic inactive, BL6 cells** 1532.
- Cytotoxic inactive, Bowes cells** 3695, 10381, 15621.
- Cytotoxic inactive, Bre04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, BST assay** 247, 2091, 2092, 6267, 10207, 10505, 221, 223, 1819, 1820, 1821, 2260, 3153, 5936, 8211, 10510, 14995, 15038, 20803, 21082, 21125, 22551.
- Cytotoxic inactive, BST cells** 2346, 8325, 10126.
- Cytotoxic inactive, BT474 cells** 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, BT549 cells** 11636, 22205, 22206, 22206.
- Cytotoxic inactive, BXPC3 cells** 2102, 2106.
- Cytotoxic inactive, CA cells** 18499.
- Cytotoxic inactive, CAKI cells** 14934.
- Cytotoxic inactive, Calu1 cells** 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, Capan1 cells** 2101.
- Cytotoxic inactive, Capan2 cells** 2101, 12936.
- Cytotoxic inactive, CaSki cells** 6490.
- Cytotoxic inactive, CCM2 cells** 13023, 13038.
- Cytotoxic inactive, CEM cells** 16550.
- Cytotoxic inactive, CHAGO cells** 248, 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, Chinese hamster ovarian CHO cells** 21475.
- Cytotoxic inactive, Col2 cells** 175, 1864, 1865, 1885, 2048, 2259, 2765, 2766, 2767, 3982, 4281, 5075, 5387, 5536, 5931, 6066, 6067, 6090, 6500, 9504, 9507, 9546, 10296, 10446, 10512, 10769, 11477, 12179, 13464, 13467, 13468, 13845, 16415, 16854, 16855, 18682, 19220, 21135, 21137, 21410, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, Colon205 cells** 901, 2309, 2830, 3778, 5522, 6017, 7699, 10380, 10414, 10467, 11001, 11600, 11601, 13041, 14776, 16261, 16725, 18222, 18998, 19542, 19790, 20465, 22270, 22774.
- Cytotoxic inactive, Colon26-L5 cells** 3014, 3980, 4135, 4788, 4900, 4936, 5788, 9626, 9627, 9628, 9815, 10099, 10411, 14500, 14613,

- 15351, 15443, 16221, 16222, 16230, 16231, 16232, 20840, 20877, 21529.
- Cytotoxic inactive, COS-7 cells** 10732, 8576, 8577, 8578, 8579, 8580.
- Cytotoxic inactive, DLD-1 cells** 3241.
- Cytotoxic inactive, DU145 cells** 5706, 7998, 14697.
- Cytotoxic inactive, EAC cells** 12622.
- Cytotoxic inactive, fibroblasts in normal hmn** 3241.
- Cytotoxic inactive, FM3A cells** 5042, 15719.
- Cytotoxic inactive, GLC4 cells** 16725.
- Cytotoxic inactive, HCC2998 cells** 5706.
- Cytotoxic inactive, HCT cells** 6785.
- Cytotoxic inactive, HCT116 cells** 5706, 12310, 15242, 17872.
- Cytotoxic inactive, HCT15 cells** 3571, 12541, 19622.
- Cytotoxic inactive, HCT8 cells** 8939, 8942, 8944, 14935.
- Cytotoxic inactive, HeLa cells** 465, 901, 1022, 1624, 1764, 2021, 2309, 2473, 2833, 3319, 3615, 3908, 4046, 4283, 4987, 5522, 5570, 5607, 5701, 5795, 5867, 5975, 5976, 6017, 6338, 6427, 6430, 6689, 7205, 9406, 9509, 10374, 10380, 10414, 10467, 10483, 10485, 10595, 11001, 11191, 11192, 11265, 11266, 11392, 11595, 11600, 11601, 11799, 12512, 13041, 13098, 13123, 13197, 13198, 13199, 14042, 14737, 14776, 15635, 15910, 16050, 16261, 16665, 16873, 17244, 17611, 17612, 17615, 18222, 18224, 18499, 18697, 18945, 18946, 18947, 18948, 18949, 18950, 18998, 19174, 19540, 19542, 20369, 20465, 20697, 20699, 20700, 20701, 20702, 20711, 21713, 22378, 22379, 22497, 22774, 22962.
- Cytotoxic inactive, HeLa-S3 cells** 10732, 13166, 13167, 8579, 8580, 8576, 8577, 8578, 8360, 8361, 8363, 8364, 8365.
- Cytotoxic inactive, HEP2 cells** 11265, 11722.
- Cytotoxic inactive, Hep3B cells** 901, 2824, 2826, 3778, 5179, 5180, 5367, 5368, 5369, 6017, 7043, 8938, 10380, 10414, 10467, 11600, 13041, 14776, 14940, 14942, 18222, 18998, 19542, 19790, 20465, 22270.
- Cytotoxic inactive, Hepa cells** 12622.
- Cytotoxic inactive, Hepa1c1c7 cells** 17715.
- Cytotoxic inactive, HEPA59T/VGH cells** 11945, 11950, 11952.
- Cytotoxic inactive, HepG cells** 8669, 8670, 8671, 13328.
- Cytotoxic inactive, HepG2 cells** 8, 248, 2251, 2618, 3308, 3544, 3615, 3619, 3908, 5179, 5180, 5368, 5570, 5607, 5701, 5795, 5944, 6776, 6778, 6779, 7043, 7122, 8935, 8936, 8938, 10306, 10483, 12413, 12415, 12416, 12512, 16169, 17118, 17247, 21475, 22962.
- Cytotoxic inactive, HGF cells** 414, 477, 512, 579, 993, 1177, 1580, 1581, 1583, 1584, 1585, 1586, 1587, 1591, 2309, 3659, 3667, 3668, 3669, 5150, 5774, 5775, 5776, 5781, 5790, 5815, 5816, 5817, 5912, 5913, 5982, 5983, 6176, 7657, 9857, 9905, 10717, 10718, 10721, 14638, 15040, 15042, 15046, 15054, 15055, 15056, 15279, 17696, 18916, 19255, 19256, 19257, 19259, 19268, 20105, 20106, 21170, 21864, 22667.
- Cytotoxic inactive, HL-60 cells** 465, 1476, 2101, 2309, 4689, 4690, 4940, 4987, 5344, 5652, 5703, 5864, 5865, 5867, 5934, 5975, 5976, 6578, 6689, 6760, 6761, 6942, 8528, 8576, 8577, 8578, 8579, 8580, 9423, 9629, 10279, 10280, 10485, 10732, 11595, 11601, 12070, 14042, 16050, 18931, 19349, 19350, 20068, 21105, 21711, 21857, 22287, 22774.
- Cytotoxic inactive, HM02 cells** 6778, 3308, 3544, 3619, 6779, 17247, 3615, 6776, 16169.
- Cytotoxic inactive, HMEC cells** 9199.
- Cytotoxic inactive, HO-8910 cells** 236, 5648, 5689, 6114, 8632, 10020, 11201.
- Cytotoxic inactive, HOCR5 cells** 6090.
- Cytotoxic inactive, HONE-1 cells** 174, 252, 2415, 4648, 6477, 8948, 9452, 9698, 9700, 9701, 9815, 9944, 11234, 13943, 14254, 15249, 16906, 17871, 18420, 19983, 19987, 20493, 20554, 22195, 23029.
- Cytotoxic inactive, Hs578T cells** 5580.
- Cytotoxic inactive, Hs742T cells** 5343, 5580, 5621, 20122.
- Cytotoxic inactive, HSC-2 cells** 414, 477, 993, 1505, 1506, 1507, 1509, 1580, 1584, 1585, 1586, 1587, 1591, 2309, 3659, 3669, 5150, 5774, 5775, 5776, 5781, 5790, 5815, 5816, 5817, 5912, 5913, 5982, 5983, 6176, 7130, 7134, 7135, 7137, 7138, 7657, 8657, 8658, 8659, 8660, 8693, 8698, 8748, 9857, 10718, 10721, 12481, 13058, 13059, 13060, 14638, 15040, 15042, 15046, 15054, 15055, 15056, 15057, 15279, 17696, 18916, 19255, 19256, 19259, 19268, 19522, 19523, 20105, 20106, 21170, 21864, 22667.
- Cytotoxic inactive, HSG cells** 15040, 15042, 15046, 15054, 15055, 15056, 19255, 19256, 19257, 19259, 19268, 20105, 20106.
- Cytotoxic inactive, HT1080 cells** 3980, 4135, 4788, 4936, 5548, 5779, 5788, 6954, 9626, 9627, 9815, 10099, 10100, 10411, 10412, 11504, 14500, 14613, 15443, 15796, 16221, 16222, 16229, 16230, 16231, 19618, 20840, 20877, 21529.
- Cytotoxic inactive, HT29 cells** 174, 252, 1067, 1621, 2856, 3266, 3267, 3268, 3271, 5373, 5374, 5375, 6289, 6477, 6708, 6760, 6761, 7043, 7788, 8027, 8028, 8824, 9035, 10187, 10747, 13674, 14072, 14484, 18588, 19690, 19981, 19983, 19985, 20237, 20356, 20362, 20554, 20643, 22332, 22781.
- Cytotoxic inactive, hTERT-RPE1 cells** 5931, 6066, 6067, 9504, 9507, 10512, 12179, 16854, 16855, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, HUVEC cells** 1864, 1865, 1885, 2259, 2259, 3982, 5387, 5387, 5401, 5931, 6042, 6066, 6067, 6090, 9504, 9507, 9507, 9546, 10512, 12179, 13845, 16854, 16855, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, inhibition assay of hmn tumor cell replication** 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113.
- Cytotoxic inactive, Jurkat-T cells** 2101, 2591, 2592, 2593, 11262, 11263, 11264, 12936.
- Cytotoxic inactive, K562 cells** 492, 984, 1764, 2101, 3319, 3615, 3615, 3695, 3932, 4169, 4170, 6204, 6776, 6791, 6792, 7998, 9081, 9082, 10068, 10381, 11191, 11192, 11265, 12590, 13067, 13068, 13069, 13070, 13098, 14697, 15621, 16177, 16402, 16665, 18697, 18978, 19983, 20369, 20711, 21713, 21845, 22378, 22379, 22748, 22792, 22800, 22801, 22803.
- Cytotoxic inactive, K562/ADM cells** 492, 18697.
- Cytotoxic inactive, Kato3 cells** 248, 2251, 2618, 5944, 7016, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, KB ATCC CCL17 cells** 5794.
- Cytotoxic inactive, KB cells** 89, 174, 252, 266, 675, 901, 1372, 1745, 1865, 2048, 2259, 2384, 2591, 2592, 2593, 2765, 2766, 2767, 2824, 2826, 2945, 3292, 3429, 3940, 3941, 3982, 4281, 4624, 5075, 5276,

- 5387, 5522, 5931, 6017, 6066, 6067, 6090, 6477, 6515, 6689, 6761, 7190, 7191, 7582, 7764, 8219, 8528, 8939, 8942, 8944, 9199, 9504, 9507, 9546, 9564, 10159, 10206, 10296, 10380, 10414, 10446, 10467, 10510, 10512, 10910, 10911, 10912, 11079, 11262, 11263, 11264, 11477, 11600, 11636, 12179, 12453, 13038, 13041, 13467, 13468, 13484, 13487, 13491, 14775, 14776, 14846, 14915, 15118, 16050, 16415, 16748, 16754, 16854, 16855, 16867, 16966, 17846, 17847, 17852, 18425, 18682, 18697, 18998, 19220, 19536, 19540, 19542, 20369, 20465, 20797, 20798, 20811, 20836, 20849, 20850, 20851, 21135, 21137, 21358, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807, 22205, 22206, 22206, 22270, 22413, 22544, 22545, 22546, 22547.
- Cytotoxic inactive, KB16 cells** 11945, 11950, 11952.
- Cytotoxic inactive, KB-VI cells** 7764.
- Cytotoxic inactive, KB-VIN cells** 14934.
- Cytotoxic inactive, L₁₂₁₀ cells** 6478, 6617, 7998, 8439, 10089, 10364, 11569, 12639, 12640, 13014, 13015, 13591, 14697, 15483, 15931, 16050, 20797.
- Cytotoxic inactive, L-5178Y cells** 22408.
- Cytotoxic inactive, L6(=L-6) cells** 580, 815, 816, 1241, 1784, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3306, 3551, 3609, 3674, 4478, 5675, 6776, 7925, 8325, 9750, 10159, 11148, 11195, 12916, 14222, 16067, 16068, 18221, 19568, 19960.
- Cytotoxic inactive, L-929 cells** 11799.
- Cytotoxic inactive, leukemia cells** 6741.
- Cytotoxic inactive, LLC cells** 8150, 8166, 8168, 8186, 8188, 8189, 11277, 13019.
- Cytotoxic inactive, LNCaP cells** 266, 1864, 1865, 1885, 2048, 2765, 2766, 2767, 3982, 4281, 4680, 5075, 5931, 6066, 6067, 6090, 7788, 8814, 9504, 9546, 10296, 10446, 10512, 10871, 11477, 12179, 13845, 14114, 14226, 14228, 14300, 14643, 14846, 15944, 15945, 15946, 15951, 16415, 16854, 16855, 18682, 19087, 19220, 19983, 21037, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807, 22332.
- Cytotoxic inactive, LNCaP-FGC cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic inactive, LO2 hmn liver cells** 5648.
- Cytotoxic inactive, LOX-IMVI cells** 984, 3355, 3932, 4169, 4170, 16402.
- Cytotoxic inactive, Lu04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, Lu1 cells** 266, 1864, 1865, 1885, 2048, 3982, 4281, 5931, 6066, 6067, 6090, 9504, 9507, 9546, 10296, 10512, 12179, 13464, 13467, 13468, 13472, 13845, 14846, 16415, 16854, 16855, 18682, 19220, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, mammalian cell lines** 11636, 18114.
- Cytotoxic inactive, McCoy cells** 13902.
- Cytotoxic inactive, MCF cells** 3308, 3544, 3615, 3619, 6776, 6778, 6779, 16169, 17247.
- Cytotoxic inactive, MCF7 cells** 1067, 1621, 1699, 1713, 1718, 1725, 1728, 3159, 3695, 3829, 3831, 4189, 4416, 4957, 5062, 5179, 5180, 5367, 5368, 5369, 5373, 5374, 5375, 6162, 6490, 6689, 7043, 7777, 7788, 7788, 7998, 8569, 8932, 8933, 8935, 8936, 8938, 9535, 9564, 10187, 10381, 10747, 10751, 11890, 12448, 13871, 13903, 13935, 13936, 13943, 14115, 14697, 15249, 15621, 16050, 18588, 19571, 19983, 21709, 21856, 22830.
- Cytotoxic inactive, MCF7/ADM cells** 22830.
- Cytotoxic inactive, MCF7-ras cells** 6490.
- Cytotoxic inactive, MDA231 cells** 4913.
- Cytotoxic inactive, MDA-MB-231 cells** 5179, 5180, 5367, 5368, 5369, 6162, 7699, 8935, 8938, 9564, 10751, 12448, 13903, 13943, 21709, 21856.
- Cytotoxic inactive, Meth-A cells** 8150, 8166, 8168, 8189.
- Cytotoxic inactive, MH-60 cells** 2716, 2722, 3729, 3732, 5237, 5238, 5239, 7190, 7191, 8121, 9859, 9861, 9917, 9918, 9993, 10672, 10673, 16296, 20911.
- Cytotoxic inactive, MI4 cells** 3355.
- Cytotoxic inactive, MK1 cells** 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, MKN-28 cells** 19349, 19350.
- Cytotoxic inactive, MRC-5 cells** 19891.
- Cytotoxic inactive, MT-4 cells** 11843, 11844, 11845, 11846, 11847, 16652, 16653, 19652, 19653, 19654, 19655, 19656.
- Cytotoxic inactive, MTT antiproliferative assay, B16F10, HeLa, MK1 cells** 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, myosarcoma cells** 2591, 2592, 2593, 11262, 11263, 11264.
- Cytotoxic inactive, N04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, NCF-7 cells** 5532.
- Cytotoxic inactive, NCI-H1417 cells** 2101, 12936.
- Cytotoxic inactive, NCI-H187 cells** 422, 422, 3941, 6183, 6298, 8032, 8219, 8325, 10250, 13491, 14321, 21358.
- Cytotoxic inactive, NCI-H226 cells** 4722, 4762, 9812, 9961, 20739, 20765, 20803, 22630.
- Cytotoxic inactive, NCI-H23 cells** 3355.
- Cytotoxic inactive, NCI-H266 cells** 5706.
- Cytotoxic inactive, NCI-H446 cells** 12397, 12398, 22299, 22988.
- Cytotoxic inactive, NCI-H460 cells** 7699, 8569.
- Cytotoxic inactive, no explanation on cell species** 163, 1161, 1992, 2286, 3159, 3429, 5303, 5518, 6409, 6490, 6490, 6490, 6490, 8107, 9474, 9475, 12048, 13965, 14101, 15152, 16818, 16819, 16820, 17872, 18359, 21027, 21724, 16199, 17196, 17198, 17197, 17199.
- Cytotoxic inactive, NSCLC-N6 cells** 2331, 10342, 11978, 13097, 13098, 16373.
- Cytotoxic inactive, NUGC cells** 3555, 4648, 8948, 9452, 9698, 9700, 9701, 9815, 9944, 10343, 11234, 13943, 14254, 18420, 19983, 19987, 20554, 22195, 22460.
- Cytotoxic inactive, NUGC-3 cells** 23029, 2415, 15249, 16906, 17871, 20493.
- Cytotoxic inactive, NUGC-4 cells** 6621, 7016, 11405.
- Cytotoxic inactive, OVCAR-3 cells** 2101, 3908, 5570, 5607, 5701, 5795, 10483, 12512, 12936, 20070.
- Cytotoxic inactive, P₃₈₈ cells** 194, 215, 492, 2309, 3292, 4281, 4689, 5194, 5344, 5492, 5496, 5886, 5887, 6708, 7571, 7572, 7575, 8439, 10510, 11001, 11601, 11853, 11857, 11859, 13464, 13467, 13472, 13674, 14072, 14437, 14484, 16415, 18697, 19690, 19981, 20237, 20356, 20362, 20554, 22332, 22736, 22774.

- Cytotoxic inactive, P₃₈₈/ADM cells** 18697.
- Cytotoxic inactive, PACA-2 cells** 1067.
- Cytotoxic inactive, PANC1 cells** 2101, 12936.
- Cytotoxic inactive, PBMC cells** 9488.
- Cytotoxic inactive, PC3 cells** 984, 1067, 2101, 3932, 4169, 4170, 4722, 9812, 9961, 12936, 14934, 16402, 20739, 20765, 20803, 22630, 22781.
- Cytotoxic inactive, primary culture hmn PBMCs** 11001, 16261.
- Cytotoxic inactive, PTX10 cells** 14935.
- Cytotoxic inactive, Raji cells** 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, RAW264.7 cells** 5633, 5669, 7982, 7983, 7984, 7985, 11017.
- Cytotoxic inactive, RL33 cells** 11978.
- Cytotoxic inactive, RXF-393 cells** 3355.
- Cytotoxic inactive, S₁₈₀ cells** 8150, 8166, 8168, 8186, 8189, 13019, 13020.
- Cytotoxic inactive, S₁₈₀A cells** 12622.
- Cytotoxic inactive, SCL-6 cells** 7016.
- Cytotoxic inactive, SF268 cells** 7125, 7613, 7614, 8569, 11890.
- Cytotoxic inactive, SF539 cells** 5706.
- Cytotoxic inactive, SGC7901 cells** 19349, 19350.
- Cytotoxic inactive, SiHa cells** 6490, 12541.
- Cytotoxic inactive, SK-MEL cells** 11636, 22205, 22206, 22206.
- Cytotoxic inactive, SK-MEL-2 cells** 19622, 984, 3932, 4169, 4170, 16402.
- Cytotoxic inactive, SK-MES-1 cells** 12397, 22299, 22988.
- Cytotoxic inactive, SK-OV-3 cells** 11636, 16370, 19622, 22205, 22206, 22206.
- Cytotoxic inactive, SMMC-7721 cells** 236, 5648, 5689, 6114, 6427, 6430, 7205, 10020, 20697, 20699, 20700, 20701, 20702, 22497, 22497.
- Cytotoxic inactive, SNU-1 cells** 18088.
- Cytotoxic inactive, SNU-16 cells** 18088.
- Cytotoxic inactive, SR cells** 3355.
- Cytotoxic inactive, SW620 cells** 248, 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, T24 cells** 12588.
- Cytotoxic inactive, T24S cells** 3695, 10381, 15621, 19571, 19983.
- Cytotoxic inactive, T47D cells** 2101, 6162, 8150, 8166, 8168, 8186, 8189, 9564, 10751, 12448, 12936, 13019, 21709, 21856.
- Cytotoxic inactive, U251 cells** 7998, 14697.
- Cytotoxic inactive, U-87-MG cells** 14934.
- Cytotoxic inactive, U937 cells** 465, 4987, 5867, 5975, 5976, 10485, 14042.
- Cytotoxic inactive, Vero cells** 24, 26, 330, 509, 510, 511, 1764, 3319, 3615, 3940, 3941, 7897, 7907, 11129, 11191, 11192, 11636, 12489, 13098, 13108, 14217, 14840, 14842, 15134, 16665, 17574, 19795, 19796, 20369, 20711, 21713, 22205, 22206, 22206, 22378, 22379.
- Cytotoxic inactive, WI-38 cells** 11595, 21498.
- Cytotoxic inactive, WiDr cells** 2101, 12936.
- Cytotoxic inactive, Wish cells** 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, yeast assay, no selective DNA-damaging, RS321NpRAD52(gal)** 4970, 11344, 20316, 12917.
- Cytotoxic inactive, yeast assay, no selective DNA-damaging, RS321NYCp50(gal)** 4970, 11344, 20316, 12917.
- Cytotoxic, 1,3,8-trihydroxy for anthraquinone plays a significant role in the cytotoxic activity** 6776, 20010.
- Cytotoxic, 212 cells** 1992, 6490, 8520, 11977, 17872.
- Cytotoxic, 39 kinds of hmn cancer cell lines** 1625.
- Cytotoxic, 3LL mus Lewis lung cancer cells** 19516, 19517, 19524, 19525, 19526, 22281.
- Cytotoxic, 780-6 renal cancer cells** 3583.
- Cytotoxic, 9KB hmn epidermatoid nasopharyngeal carcinoma cells** 2735, 10126, 11978, 16414, 17240.
- Cytotoxic, 9L rat glioma cells** 2303.
- Cytotoxic, 9PS mouse lymphleukemia cells** 2735, 16021, 16022, 16023, 17240.
- Cytotoxic, a promising lead as potential cancer chemopreventive agents** 51, 5746, 8262, 11490, 11504, 11804, 18547.
- Cytotoxic, A2780 hmn ovarian cancer cells** 1576, 3126, 6044, 6045, 8054, 8065, 8940, 9089, 9090, 9388, 11783, 11783, 12108, 12109, 12110, 17622, 17623, 20809, 21337, 21338, 22761, 22761, 22839.
- Cytotoxic, A375 hmn melanoma cells** 919, 2492, 2493, 4046, 6437, 11800, 11801, 17654, 18056.
- Cytotoxic, A431 hmn epidermic cancer cells** 9187, 15739, 15922, 17008, 19284.
- Cytotoxic, A498 hmn renal cancer cells** 1297, 1303, 1304, 1305, 1320, 1321, 1322, 3457, 3583, 4763, 5706, 6827, 6828, 10558, 11269, 14906, 18211, 20720, 20721, 20811.
- Cytotoxic, A549 non-small cell lung cancer cells** 150, 251, 577, 843, 1297, 1303, 1304, 1305, 1310, 1311, 1312, 1320, 1321, 1322, 1621, 1679, 1764, 1924, 1925, 1926, 2006, 2047, 2334, 2338, 2527, 2528, 2652, 2653, 2654, 2655, 2656, 2677, 2735, 2736, 2857, 3053, 3096, 3097, 3241, 3257, 3457, 3583, 3868, 3869, 3974, 3975, 4147, 4148, 4317, 4320, 4323, 4689, 4880, 4986, 5055, 5284, 5295, 5314, 5826, 5832, 6044, 6045, 6075, 6162, 6204, 6277, 6282, 6289, 6314, 6315, 6328, 6367, 6404, 6405, 6642, 6759, 6760, 6827, 6828, 6897, 7535, 7568, 7569, 7571, 7646, 7698, 7788, 8824, 8946, 9226, 9323, 9535, 9544, 9567, 9669, 9747, 9885, 10126, 10438, 11029, 11081, 11269, 11375, 11494, 11605, 12188, 12189, 12254, 12964, 13518, 13673, 13685, 13867, 13869, 14254, 14492, 14495, 14496, 14504, 14644, 14645, 14646, 14647, 14906, 14934, 14934, 14935, 14935, 15084, 15085, 15087, 15088, 15089, 15141, 15169, 15879, 15902, 16021, 16023, 16050, 16282, 16283, 16370, 16402, 16427, 16676, 16677, 16693, 17059, 17060, 17061, 17062, 17063, 17064, 17309, 17619, 18011, 18033, 18044, 18211, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 19427, 19516, 19517, 19524, 19525, 19526, 20002, 20244, 20363, 20540, 20641, 20643, 20644, 20679, 20680, 20681, 20720, 20721, 20722, 20811, 20811, 20811, 21709, 21924, 22208, 22208, 22209, 22451, 22458, 22923, 23013.
- Cytotoxic, ACHN hmn renal cancer cells** 251, 2528, 4880, 5314, 5706, 7698, 20811, 20811.
- Cytotoxic, acts on calf thymus DNA** 7704, 15631, 19284, 22232.
- Cytotoxic, acts on DNA topo II** 843.
- Cytotoxic, against a series of tumor cell lines but did not show**

- significant effects in clinical studies against solid tumors 2660.
- Cytotoxic, AGS gastric adenocarcinoma cells** 3498, 17979.
- Cytotoxic, animal cap assay to screen for inhibitors of cell division**
4820, 4821, 4822, 4825, 4826, 4827, 4828, 4829, 4838, 12138.
- Cytotoxic, animal model** 8596, 8598, 8599.
- Cytotoxic, animal tumor and plant tumor** 14705.
- Cytotoxic, antioxidant assay** 1400, 2635, 6103, 8095, 14454, 20481, 20482.
- Cytotoxic, antiproliferation inactive** 5528, 8665, 8677, 8678.
- Cytotoxic, antiproliferation inactive, Colon26-L5** 15443, 16221, 16222, 16230, 16231, 16232.
- Cytotoxic, antiproliferation inactive, HT1080** 15443, 15796, 16221, 16222, 16229, 16230, 16231.
- Cytotoxic, antiproliferative** 2102, 2106, 3548, 3551, 4590, 5929, 6907, 7080, 9655, 10277, 10281, 10559, 12171, 12177, 12180, 12206, 14304, 14305, 15635, 18759, 19458, 19634, 20465, 20670, 20811, 21231, 22213, 22718.
- Cytotoxic, antiproliferative** 1389, 1390, 1439, 1440, 14901, 15494.?
- Cytotoxic, antiproliferative inactive, HL-60** 20068.
- Cytotoxic, antiproliferative, A-2780** 11783, 22761.
- Cytotoxic, antiproliferative, AGS cells** 3498.
- Cytotoxic, antiproliferative, B16(F-10), HeLa, MK1** 18944, 18950, 18951, 18952, 18953.
- Cytotoxic, antiproliferative, calf pulmonary arterial endothelial cells CPAE** 20900, 20901.
- Cytotoxic, antiproliferative, Col2 cells** 240, 6064, 7204, 20610.
- Cytotoxic, antiproliferative, Colon26-L5** 15796, 16229.
- Cytotoxic, antiproliferative, colorectal cancer cells** 11783, 22761.
- Cytotoxic, antiproliferative, cytotoxicity of compounds was measured using the WST-8 proliferation reagent** 7376, 21435.
- Cytotoxic, antiproliferative, HEK-293** 1575, 3821, 8715, 18691, 18693, 18733, 22838.
- Cytotoxic, antiproliferative, hmn breast cancer cells** 1399, 2635, 11783, 14961, 22761.
- Cytotoxic, antiproliferative, HT1080 cells** 16232.
- Cytotoxic, antiproliferative, HTC cells** 8148, 8149, 8159, 8160, 8161, 8174.
- Cytotoxic, antiproliferative, J774 macrophages** 8662, 8717, 8718, 8749, 18690, 18692.
- Cytotoxic, antiproliferative, J774.A1** 1575, 3821, 8715, 8716, 18691, 18693, 18733, 22838.
- Cytotoxic, antiproliferative, LoVo** 3573, 6164, 6213, 19916.
- Cytotoxic, antiproliferative, LoVo/Doxo** 3573, 6164.
- Cytotoxic, antiproliferative, lymphocytes** 22015.
- Cytotoxic, antiproliferative, MCF7** 3303, 3498.
- Cytotoxic, antiproliferative, MT2** 3816.
- Cytotoxic, antiproliferative, MTT colorimetric assay** 3816.
- Cytotoxic, antiproliferative, PC3** 3498.
- Cytotoxic, antiproliferative, PMA-induced** 17958.
- Cytotoxic, antiproliferative, six esophageal cancer cells** 2303.
- Cytotoxic, antiproliferative, T-lymphoid leukemia cells** 2102.
- Cytotoxic, antiproliferative, WEHI-164** 1575, 3821, 8715, 8716, 18691, 18693, 22838.
- Cytotoxic, APM1840 hmn leukemia cells** 17240.
- Cytotoxic, aromatase inhibitor** 51, 846, 1402, 2635, 2647, 5746, 8262, 11490, 17403.
- Cytotoxic, arrests in the G2/M phase of cell cycle** 5055.
- Cytotoxic, ascites carcinoma cells** 17028, 18816.
- Cytotoxic, assay of larva of yellow fever mosquito** 18240.
- Cytotoxic, B16 mouse melanoma cells** 2304, 2811, 6221, 16599, 19143, 19143, 20700.
- Cytotoxic, B16(F-10) mouse melanoma cells** 2334, 2338, 4147, 4148, 16050, 18944, 18950, 18951, 18952, 18953, 19516, 19517, 19524, 19525, 19526, 23013.
- Cytotoxic, *Bacillus coli*, *Bacillus subtilis* and nema** 21328.
- Cytotoxic, BC hmn breast cancer cells** 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.
- Cytotoxic, BC-1 hmn breast cancer cells** 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.
- Cytotoxic, BCA-1 hmn breast cancer cells** 6759, 13468, 13469, 13470, 15739.
- Cytotoxic, Bcap37 hmn breast cancer cells** 843, 11392, 13123, 16183, 17717, 18499.
- Cytotoxic, Bel7402 hmn liver cancer cells** 1764, 3053, 3868, 3869, 3911, 5826, 5832, 5888, 6044, 6045, 6075, 6314, 6328, 7436, 7504, 7544, 7545, 7548, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8692, 9567, 10052, 11081, 11659, 14347, 17059, 17060, 17061, 17062, 17063, 17064, 17928, 19488, 20397, 20811, 20811, 20811.
- Cytotoxic, Bel7405 hmn liver cancer cells** 1860, 8656, 9546, 14044, 22828.
- Cytotoxic, Bel7420 cells** 18545.
- Cytotoxic, BGC823 hmn stomach cancer cells** 843, 1030, 1764, 3053, 3868, 3869, 4701, 5826, 5832, 6044, 6045, 6075, 6756, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 9567, 10052, 10815, 10816, 10817, 11081, 11392, 11659, 13123, 13694, 13700, 13701, 13705, 16050, 17059, 17060, 17061, 17062, 17063, 17064, 17717, 18499, 20397, 20542, 22011, 22013, 22497, 22798.
- Cytotoxic, BIU87 bladder cancer cells** 16183, 17717.
- Cytotoxic, BL6 mouse melanotic carcinoma** 472, 1276, 4237, 13241.
- Cytotoxic, blocks cell from G₁ to S phase** 9655.
- Cytotoxic, blocks DNA synthesis** 19085.
- Cytotoxic, blocks expression of vascular endothelial growth factor (VEGF)mRNA in GI-101A cells** 3498.
- Cytotoxic, B-lymphocytes** 1359.
- Cytotoxic, bone cancer cells** 15409.
- Cytotoxic, Bowes skin cancer cells** 16402, 19571, 19983.
- Cytotoxic, breast cancer cells** 2601, 11783, 22761.
- Cytotoxic, Brine Shrimp Lethality bioassay (Brine Shrimp Test)** 1297, 1303, 2082, 3292, 5327, 6309, 8210, 10511, 13296, 17592.
- Cytotoxic, BST** 1310, 1311, 1312, 1313, 1320, 1321, 1322, 1679, 2736, 7788, 8946, 11375, 11566, 11864, 11978, 14906, 15084, 15085, 15087, 15088, 15089, 15902, 15903, 16676, 16677, 18211, 18214, 18215,

- 18240, 18899, 20248.
- Cytotoxic, BSY1 breast cancer cells** 1625, 4880, 18714.
- Cytotoxic, BT-20** 9869.
- Cytotoxic, BT474 hmn galactophore cancer cells** 225, 226, 248, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 10307, 12414, 12417, 12423.
- Cytotoxic, BT549 hmn galactophore cancer cells** 11636, 18114.
- Cytotoxic, BXPC3 pancreas cancer cells** 7912, 9859, 9861, 9917, 10672, 10673, 16296, 16312.
- Cytotoxic, C6 rat glioma cells** 9376, 9383, 9386.
- Cytotoxic, CA hmn liver cancer cells** 11392, 13071, 13123, 16183, 17717.
- Cytotoxic, CaEs-17 hmn esophageal cancer cells** 16183.
- Cytotoxic, CAKI hmn renal cancer cells** 14934.
- Cytotoxic, CAKI-1 hmn renal cancer cells** 3583.
- Cytotoxic, Calu1 hmn lung cancer cells** 6776, 10068, 20010.
- Cytotoxic, Capan1 pancreas cancer cells** 12936, 17979.
- Cytotoxic, Capan2 pancreas cancer cells** 17979.
- Cytotoxic, CaSki hmn cervical carcinoma cells** 1992, 11977.
- Cytotoxic, CCM2** 8167.
- Cytotoxic, cell adhesion inhibitor, adhesion of HL-60 cell to BAEC** 3324, 3325.
- Cytotoxic, cellular differentiation inducer, HL-60** 175, 240, 1438, 1441, 2676, 2684, 6064, 7204, 10769, 15635, 20610, 20670, 21410.
- Cytotoxic, cellular differentiation inducer, mus myelocytic leukemia cells** 10594, 10751, 10752, 10796.
- Cytotoxic, CEM leukemia cells** 6221.
- Cytotoxic, CHAGO hmn undifferentiated lung cancer cells** 225, 226, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 10307, 12414, 12417, 12423.
- Cytotoxic, changes the shape of *Pyricularia oryzae* mycelium** 17975, 17980.
- Cytotoxic, Chinese hamster ovarian** 8.
- Cytotoxic, CNE hmn nasopharyngeal carcinoma** 16183, 17717.
- Cytotoxic, Col1 hmn colorectal cancer cells** 15739.
- Cytotoxic, Col2 hmn colorectal cancer cells** 175, 240, 266, 1863, 3300, 5055, 5074, 5319, 5401, 6042, 6064, 6277, 6282, 6483, 6759, 6759, 6759, 6759, 7078, 7204, 7764, 10297, 10396, 10438, 10769, 11353, 13469, 13470, 13472, 14045, 14846, 18866, 20610, 20809, 20811, 21313, 21314, 21315, 21316, 21410, 21803, 21924.
- Cytotoxic, COLO320DM hmn colorectal cancer cells** 4913.
- Cytotoxic, Colon205 colorectal cancer cells** 2528, 2824, 2826, 3583, 3777, 6766, 6906, 7698, 10206, 14775, 18224, 19540, 20811.
- Cytotoxic, Colon26-L5 mus colorectal cancer cells** 2468, 2498, 2499, 2500, 3012, 3012, 3014, 3015, 3015, 3016, 3016, 3018, 3018, 3019, 3019, 3020, 3020, 3021, 3021, 4398, 4882, 5156, 5156, 5548, 5777, 5778, 5779, 5780, 6217, 6844, 6844, 6846, 6846, 6847, 6848, 6848, 9300, 3022, 6849, 9974, 10100, 10412, 13859, 14254, 15351, 15352, 15796, 16229, 17174, 17517, 17518, 17519, 19618, 20840, 20877, 21529.
- Cytotoxic, colorectal cancer cells** 11783, 15409, 16864, 22761.
- Cytotoxic, colorimetric method** 6759, 17574, 20253.
- Cytotoxic, COS-7 monkey kidney cells** 8360, 8361, 8363, 8364, 8365.
- Cytotoxic, COX-1 inhibitor** 1397, 1405, 1417, 1421, 1422, 1423, 1443, 1446, 1447, 1448, 1765, 7026, 5679, 15714, 20326, 21849, 12681, 11672, 1387, 1396, 1412, 1445, 1449, 1450, 2172, 2635, 3308, 4337, 7768, 18643, 18644, 11248, 14931, 14962, 14961.
- Cytotoxic, COX-2 inhibitor** 1387, 1396, 1412, 1424, 1437, 1442, 1444, 1445, 1449, 1450, 2334, 6497, 11490, 14931, 18644, 21440.
- Cytotoxic, Crown gall cancer cells** 17619.
- Cytotoxic, CT-26 mus colorectal cancer cells** 3241, 9669.
- Cytotoxic, CTV1 hmn leukemia cells** 17240.
- Cytotoxic, cultural hmn throat epicytoma cells** 14896.
- Cytotoxic, cultured mouse epidermal 308 cells** 1372, 1373, 1394, 1395, 5543, 15412.
- Cytotoxic, CXF94L hmn tumor cells** 13241.
- Cytotoxic, cytochrome C antioxidant assay** 1398.
- Cytotoxic, D.mel-II (embryonic tissue of ferment fly, *D. melanogaster*)** 2948, 2950, 2952.
- Cytotoxic, DAUDI** 17528.
- Cytotoxic, decrease in cellular GSH content and increases ROS production** 9669.
- Cytotoxic, decrease in thymidine uptake and glutathione levels of the tumor cells** 6767.
- Cytotoxic, direct cytotoxic effect to arrest carcinoma cells in the G2/M phase, stomach cancer cells** 22232.
- Cytotoxic, DLD hmn colorectal adenocarcinoma cells** 11949.
- Cytotoxic, DLD-1 hmn colorectal adenocarcinoma cells** 9669.
- Cytotoxic, DMS114 hmn lung cancer cells** 4880.
- Cytotoxic, DMS273 hmn lung cancer cells** 1625, 4880.
- Cytotoxic, DNA-damaging activity** 3498, 6710, 6711, 6714, 11636, 12537, 18114, 19061.
- Cytotoxic, DU145 prostatic cancer cells** 2528, 4880, 5343, 5580, 5621, 6314, 7912, 8278, 9859, 9861, 9917, 10672, 10673, 16296, 16312, 18700, 18701, 20117, 20122, 20129, 20811, 22281.
- Cytotoxic, EAC Ehrlich ascites cancer cells** 3502, 3745, 3906, 6284, 6285, 6459, 7323, 7566, 11056, 13238, 17717, 18461, 19929, 22778.
- Cytotoxic, EBV-EA** 7764, 11358, 19236, 20465.
- Cytotoxic, EBV-EA inhibitor TPA-induced** 7764, 11358, 19236, 20465.
- Cytotoxic, Ehrlich ascites cancer cells** 4471, 4472, 7399, 16183.
- Cytotoxic, EJ-1 hmn bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, EL₄ cells** 19143.
- Cytotoxic, enhances cytotoxicity for drug-resistant strain P₃₈₈** 8436.
- Cytotoxic, estrogen α -receptor-binding assay** 1397, 2630, 2648, 4108, 14961.
- Cytotoxic, estrogen β -receptor-binding assay** 1397, 2630, 2648, 4108, 14961.
- Cytotoxic, estrone sulfatase assay** 6322, 21968.
- Cytotoxic, fibrosarcoma cells** 6767.
- Cytotoxic, FM3A mus breast cancer cells** 911, 912, 1650, 1651, 1652, 2312, 2380.
- Cytotoxic, gpg horn cells** 3096.
- Cytotoxic, GXF251L** 13241.
- Cytotoxic, H.Ep.-2 hmn cutis cancer cells in throat** 7836, 17042.
- Cytotoxic, H116 hmn colorectal cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.

- Cytotoxic, HBC4 breast cancer cells** 4880.
- Cytotoxic, HBC5 breast cancer cells** 4880.
- Cytotoxic, HCC2998 hmn colorectal cancer cells** 4880.
- Cytotoxic, HCT hmn colorectal cancer cells** 2677, 12958, 18931, 22795, 22923.
- Cytotoxic, HCT116 hmn colorectal cancer cells** 159, 1792, 3300, 3583, 4880, 6160, 6490, 9376, 9383, 9386, 11723, 22077, 22580.
- Cytotoxic, HCT15 hmn colorectal cancer cells** 1913, 1914, 4880, 5706, 6162, 7032, 11723, 11723, 16370, 18011, 20679, 20680, 20681, 21709, 22208, 22209.
- Cytotoxic, HCT8 hmn colorectal cancer cells** 1764, 2652, 2653, 2654, 2655, 2656, 3053, 3868, 3869, 5826, 5832, 6044, 6045, 6075, 6221, 8940, 9567, 10052, 11081, 12188, 12189, 14934, 14934, 14935, 17059, 17060, 17061, 17062, 17063, 17064, 18044, 20540, 20542, 20545, 22147, 22148, 22149, 22150.
- Cytotoxic, HEK-293 hmn epithelial kidney cells** 1575, 3821, 8715, 18691, 18693, 18733, 22838.
- Cytotoxic, HEL normal hmn embryonic lung fibrocytes** 5196, 14967.
- Cytotoxic, HeLa ATCC-17 hmn cervical epithelial cancer cells** 1136, 1137, 1138.
- Cytotoxic, HeLa culture cervical epithelial cancer cells from Henrietta Lack** 492, 585, 696, 1319, 1470, 1471, 1472, 1617, 1625, 2492, 2493, 2811, 3053, 3293, 3412, 3502, 3548, 3553, 3745, 3911, 4128, 4320, 4323, 4324, 4327, 4461, 4565, 4795, 4891, 5196, 5417, 5929, 6437, 6776, 6921, 7044, 7436, 7474, 7586, 7593, 7665, 7714, 8128, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8968, 9015, 9194, 9254, 9255, 9256, 9288, 9376, 9383, 9386, 9869, 10068, 10206, 10277, 10281, 10559, 10773, 10815, 10816, 10817, 10893, 11179, 11230, 11231, 11232, 11555, 11556, 11645, 11659, 11722, 11800, 11801, 11977, 12171, 12177, 12180, 12446, 12511, 13071, 14304, 14305, 14347, 14417, 14775, 14967, 16183, 16599, 16670, 17265, 17613, 17614, 17616, 17643, 17644, 17645, 17646, 17654, 17654, 17717, 17862, 18056, 18097, 18484, 18485, 18562, 18673, 18944, 18951, 18952, 18953, 19085, 19278, 19308, 20010, 20135, 20278, 20283, 20284, 20397, 20811, 20811, 20811, 20811, 21206, 21239, 21240, 21385, 21387, 21498, 22011, 22013, 22270, 22286, 22775, 22781, 22784.
- Cytotoxic, HeLa-S3 hmn cervical epithelial cancer cells** 3412, 4752, 4753, 4754, 4790, 13153, 13154, 13155, 13157, 13158, 13159, 13160, 13161, 13164, 13165, 15409, 17489, 21887.
- Cytotoxic, HELF normal hmn embryo lung fibroblasts** 20540.
- Cytotoxic, Hep2 hmn liver cancer cells** 2811, 7586, 11266, 20963.
- Cytotoxic, Hep2,2,15 transfected with hepatitis B virus hmn liver cancer cells** 473, 1294, 1295, 1296, 1302, 1308, 1856, 1961, 2735, 3060, 4089, 4090, 4091, 4284, 5240, 7515, 7516, 7815, 8167, 12956, 13023, 13038, 15084, 15085, 15090, 15091, 15092, 15093, 15095, 15097, 15098, 15339, 18897, 18898, 19200, 20240, 20243, 22214.
- Cytotoxic, Hep3B hmn liver cancer cells** 1324, 1324, 1325, 1492, 2830, 3258, 3259, 3260, 3261, 3262, 3263, 3555, 3777, 5297, 5522, 5532, 6490, 8379, 8379, 8932, 8933, 8934, 8935, 8936, 8946, 8947, 8948, 9194, 10206, 11977, 13903, 13943, 14775, 14936, 14936, 14937, 14937, 14938, 14938, 14941, 14942, 14943, 14943, 17872, 18224, 19540, 20626, 20811, 22077.
- Cytotoxic, Hepa hmn liver cancer cells** 20834, 20835, 20836.
- Cytotoxic, Hepa1c1c7 mus liver cancer cells** 1380, 1381, 1382, 1383, 1384, 1386, 1388, 1392, 1393, 1401, 1403, 1404, 1406, 1407, 1408, 1409, 1410, 1411, 1413, 1414, 1415, 1416, 1418, 1419, 1420, 1425, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 2468, 2857, 2857, 3071, 3072, 3602, 4282, 6228, 6228, 6246, 6246, 7670, 7788, 8278, 9740, 10430, 10827, 11504, 11804, 12953, 14074, 14074, 14075, 14075, 16498, 16935, 17753, 19542, 19910, 21918, 22615, 22715.
- Cytotoxic, Hepa59T/VGH hmn liver cancer cells** 531, 11951, 20811, 20833, 22630.
- Cytotoxic, HepG2 hmn liver cancer cells** 225, 226, 463, 473, 1294, 1295, 1296, 1302, 1308, 1324, 1324, 1325, 1617, 1856, 1961, 2102, 2106, 2257, 2261, 2262, 2735, 2948, 2950, 2952, 3060, 3555, 4089, 4090, 4091, 4128, 4268, 4269, 4284, 4891, 5240, 5367, 5369, 5532, 5942, 5945, 6490, 7044, 7515, 7516, 7815, 8167, 8379, 8379, 8932, 8933, 8934, 8946, 8947, 8948, 10307, 11977, 12414, 12417, 12423, 12511, 12597, 12954, 12956, 13023, 13038, 13903, 13943, 14936, 14936, 14937, 14937, 14938, 14938, 14939, 14940, 14940, 14941, 14941, 14942, 14942, 14943, 14943, 15084, 15085, 15090, 15091, 15092, 15093, 15095, 15097, 15098, 15339, 16634, 17872, 17928, 17929, 18673, 18897, 18898, 19148, 19200, 19308, 19488, 20240, 20243, 22077, 22214.
- Cytotoxic, HEPZ hmn epithelial cancer cells** 837.
- Cytotoxic, HGF normal hmn gingival fibroblast cells** 1010, 4338, 4339, 4340, 4341, 4342, 5184, 6128, 6129, 6130, 6447, 7133, 7136, 8354, 8355, 8357, 8358, 8359, 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10719, 10720, 10722, 10727, 11206, 11248, 13881, 19254, 19517, 21797.
- Cytotoxic, HL-60 leukaemia cells** 175, 240, 594, 941, 1570, 1571, 1578, 1691, 1845, 2102, 2106, 2528, 2716, 2722, 3053, 3324, 3325, 3576, 3576, 3580, 3580, 3581, 3581, 3582, 3582, 3583, 3583, 3724, 3729, 3732, 3784, 3911, 4893, 5237, 5238, 5239, 5774, 5775, 5776, 5781, 5815, 5816, 5817, 5899, 5900, 5912, 5913, 5926, 6064, 6107, 6125, 6221, 6328, 6437, 6484, 6528, 6576, 6577, 6785, 7081, 7204, 7436, 7540, 7544, 7545, 7548, 7746, 7911, 7912, 8121, 8222, 8327, 8328, 8360, 8361, 8363, 8364, 8365, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8542, 8543, 8544, 8661, 8691, 8699, 9381, 9859, 9861, 9917, 9918, 9993, 10077, 10274, 10287, 10287, 10672, 10673, 10725, 10726, 10769, 10773, 10815, 10816, 10817, 11001, 11001, 11323, 11659, 11751, 11962, 12167, 12202, 12595, 12597, 12936, 12958, 13241, 13492, 13493, 13494, 13495, 14347, 14698, 15635, 15813, 16261, 16261, 16296, 16312, 17240, 17265, 17528, 17727, 17928, 17929, 17979, 18637, 18714, 18716, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18835, 18892, 19122, 19324, 19410, 19410, 19411, 19411, 19412, 19412, 19413, 19413, 19488, 20009, 20068, 20221, 20223, 20397, 20610, 20811, 20811, 20811, 20811, 20911, 21410, 21498, 21771, 22011, 22013, 22290, 22718, 22720, 22777, 22792, 22793, 22794, 22795, 22826.
- Cytotoxic, hmn breast cancer cells** 1399, 2635, 14961.
- Cytotoxic, hmn cervical carcinoma cells** 21497.
- Cytotoxic, hmn cervical carcinoma cells** 11541.

- Cytotoxic, hmn colorectal cancer cells** 1389, 1390, 1439, 1440, 14901, 15494.
- Cytotoxic, hmn embryo lung cells** 11541.
- Cytotoxic, hmn intestinal mucoadenocarcinoma in nude mouse** 11179.
- Cytotoxic, hmn keratinocytes** 19284.
- Cytotoxic, hmn liver cancer cells** 8128.
- Cytotoxic, hmn lymphocytes** 14995.
- Cytotoxic, hmn medulloblastoma** 1470, 1471, 1472, 11230, 11231, 11232, 11645, 18562.
- Cytotoxic, hmn microvascular endothelial cells** 9198.
- Cytotoxic, hmn peripheral blood T cells** 7519, 11318, 12106, 15331, 16216, 19515, 22718.
- Cytotoxic, hmn throat epicytoma cells** 7558.
- Cytotoxic, hmn throat epidermic carcinoma cells H-Ep-2** 9288.
- Cytotoxic, hmn T-lymphoid leukemia cells** 2102.
- Cytotoxic, HO-8910 hmn ovarian cancer cells** 1860, 8656, 9546, 11203, 14044, 14828, 16675, 22497, 22828.
- Cytotoxic, HOG.R5 green fluorescent protein (GFP)-based reporter cells** 1863, 1885, 6759, 9546, 10396, 13845, 14045.
- Cytotoxic, HONE-1 hmn nasopharyngeal carcinoma cells** 228, 332, 530, 2006, 2338, 3555, 4317, 4320, 4323, 5573, 5574, 8935, 8936, 13294, 16337, 16402, 16891, 20495, 22270, 22272.
- Cytotoxic, HOP-62 non-small cell lung cancer cells** 3583.
- Cytotoxic, Hs578T hmn breast cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, Hs740T hmn stomach cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, Hs742T hmn breast cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20129.
- Cytotoxic, Hs756T hmn stomach cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells** 1010, 1177, 1508, 1570, 1571, 1581, 1583, 4338, 4339, 4340, 4341, 4342, 5184, 6128, 6129, 6130, 6447, 7083, 7131, 7132, 7139, 7140, 8354, 8355, 8357, 8358, 8359, 8661, 8695, 10722, 10727, 11206, 11248, 19254, 19257, 19521, 21797, 22826.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells, also active for normal hmn gingival fibroblasts HGF** 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10719, 10720, 13881.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells, inactive for normal hmn gingival fibroblasts HGF** 512, 579, 3667, 3668, 9905, 10717.
- Cytotoxic, HSG hmn salivary gland tumor cells** 19254.
- Cytotoxic, HT sarcoma cells** 9187, 15919, 17008, 17009.
- Cytotoxic, HT1080 hmn fibrosarcoma cells** 2468, 2498, 2499, 2500, 2769, 3012, 3012, 3014, 3014, 3015, 3015, 3016, 3016, 3018, 3018, 3019, 3019, 3020, 3020, 3021, 3021, 3022, 4398, 4882, 4900, 5156, 5156, 5777, 5778, 5780, 6217, 6277, 6282, 6759, 6844, 6844, 6846, 6846, 6847, 6848, 6848, 6849, 9300, 9628, 9974, 10438, 11353, 12766, 12768, 12770, 13098, 13859, 14254, 15351, 15351, 15352, 15352, 15739, 15922, 15923, 16232, 17174, 17343, 18866, 19516, 19517, 19524, 19525, 19526, 21924.
- Cytotoxic, HT1197 cells** 22208, 22209.
- Cytotoxic, HT29 hmn colorectal cancer cells** 228, 332, 530, 1297, 1303, 1304, 1305, 1310, 1312, 1320, 1321, 1322, 1367, 1625, 1679, 1691, 1924, 1925, 1926, 2005, 2047, 2338, 2528, 2694, 2735, 2736, 2857, 3257, 3457, 3583, 3974, 3975, 4164, 4165, 4166, 4310, 4880, 5841, 5843, 6010, 6165, 6181, 6183, 6204, 6314, 6367, 6404, 6405, 6490, 6642, 6827, 6828, 7032, 7698, 7788, 7789, 7951, 8203, 8204, 8205, 8556, 8946, 9226, 9323, 9544, 10126, 10462, 11269, 11375, 11494, 11566, 11605, 12254, 12541, 12886, 12887, 12888, 13673, 13685, 13808, 14254, 14492, 14572, 14645, 14646, 14906, 15082, 15084, 15085, 15087, 15088, 15089, 15141, 15879, 15902, 15903, 16020, 16282, 16283, 16337, 16402, 16427, 16677, 16832, 17588, 17619, 17872, 18754, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 19427, 19516, 19517, 19524, 19525, 19526, 20002, 20244, 20363, 20641, 20644, 20811, 20811, 22077, 22270, 22272, 22451, 22458.
- Cytotoxic, HT3 hmn cervicall cancer cells** 1992.
- Cytotoxic, HTC mus hepatosarcoma cells** 8148, 8149, 8159, 8160, 8161, 8174.
- Cytotoxic, HTC rat cultural liver cancer cells** 18295, 18296.
- Cytotoxic, hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells** 2259, 3300, 5319, 5387, 5401, 5536, 6042, 6483, 6500, 20811, 21803.
- Cytotoxic, Huh7 hmn hepatoma cells** 9376, 9383, 9386.
- Cytotoxic, HUVEC hmn umbilical vein endothelial cells** 1863, 3300, 3300, 5319, 5319, 5401, 5536, 5536, 6483, 6483, 6500, 6500, 6759, 10396, 14045, 20811, 21803.
- Cytotoxic, induces apoptosis, B16** 19143.
- Cytotoxic, induces apoptosis, causes rapidly apoptosis of many radioresistant and chemoresistant hmn squamous cell carcinoma** 3498.
- Cytotoxic, induces apoptosis, HeLa** 7665.
- Cytotoxic, induces apoptosis, HL-60** 10287, 13492.
- Cytotoxic, inhibition assay of ornithine decarboxylase** 1373, 1394, 1395.
- Cytotoxic, inhibits absorption of thymidine** 2664.
- Cytotoxic, inhibits biosynthesis of DNA** 17489.
- Cytotoxic, inhibits biosynthesis of DNA, RNA and protein** 14698, 16183, 21397.
- Cytotoxic, inhibits biosynthesis of DNA, RNA, protein and cholesterol** 7566.
- Cytotoxic, inhibits Ca²⁺-induced depolymerization of tubulin to overcome resistance of cancer cells** 20800, 20850.
- Cytotoxic, inhibits cellular macromolecular biosyntheses** 8360, 8361, 8363, 8364, 8365.
- Cytotoxic, inhibits DMBA-induced preneoplastic lesion formation** 240, 4151, 4179, 4180.
- Cytotoxic, inhibits DNA biosynthesis by blocking thymidine to go into HL-60 cells** 941, 6484, 22777.
- Cytotoxic, inhibits estrogen receptor-positive MCF7 hmn breast cancer cells, the inhibition was not reversibile by an addition of estrogen** 2102.
- Cytotoxic, inhibits growth of cells** 2102, 2106, 19284, 20009, 22718,

- 22720.
- Cytotoxic, inhibits growth of cells inactive, MCF7, NCIH460, SF268** 8569.
- Cytotoxic, inhibits growth of cells, A549** 5055, 6162, 21709, 22208, 22209.
- Cytotoxic, inhibits growth of cells, B16** 19143.
- Cytotoxic, inhibits growth of cells, Bel7402** 5888, 7504, 8692.
- Cytotoxic, inhibits growth of cells, breast cancer cells** 2601.
- Cytotoxic, inhibits growth of cells, Col2** 5055.
- Cytotoxic, inhibits growth of cells, EL₄** 19143.
- Cytotoxic, inhibits growth of cells, GI-101A** 3498.
- Cytotoxic, inhibits growth of cells, HCT15** 6162, 21709, 22208, 22209.
- Cytotoxic, inhibits growth of cells, HepG2** 2102, 2106.
- Cytotoxic, inhibits growth of cells, HL-60** 3576, 3580, 3581, 3582, 3583, 14698, 19410, 19411, 19412, 19413.
- Cytotoxic, inhibits growth of cells, hmn cancer cells** 22210, 22211, 22212.
- Cytotoxic, inhibits growth of cells, HT1197** 22208, 22209.
- Cytotoxic, inhibits growth of cells, KB** 13672, 14813, 21447, 21448, 21554.
- Cytotoxic, inhibits growth of cells, LOX-IMVI** 6162, 21709.
- Cytotoxic, inhibits growth of cells, MCF7** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172, 22208, 22209.
- Cytotoxic, inhibits growth of cells, MDA-MB-435** 2102.
- Cytotoxic, inhibits growth of cells, MH₁C₁** 19143.
- Cytotoxic, inhibits growth of cells, NCI-H460** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172.
- Cytotoxic, inhibits growth of cells, PC3** 21709, 6162.
- Cytotoxic, inhibits growth of cells, rat liver cancer** 16935.
- Cytotoxic, inhibits growth of cells, SF268** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172.
- Cytotoxic, inhibits growth of cells, SW620** 6162, 21709.
- Cytotoxic, inhibits growth of cells, ZR-75-1** 9564.
- Cytotoxic, inhibits invasion of mus MO4 cells into embryonic chick heart fragments** 15635, 20670.
- Cytotoxic, inhibits phosphorylated action of phospholipid, then inhibits cancer cell's growth and metabolism** 17763.
- Cytotoxic, inhibits TPA-induced ³²P combines with phospholipid in HeLa cells** 12766.
- Cytotoxic, Ishikawa anti-E2 bioassay** 1389, 1390, 14714.
- Cytotoxic, J774.A1 macrophages** 1575, 3821, 8715, 8716, 18691, 18693, 18733, 22838.
- Cytotoxic, Jurkat-T hmn T-cell leukemia cells** 2495, 4190, 4604, 5851, 5973, 7295, 10047, 11978, 17478, 17528, 17830, 17979.
- Cytotoxic, K562 doxorubicin-resistant hmn leukemia cells** 5175, 8238, 11433.
- Cytotoxic, K562 hmn leukemia cells** 607, 610, 843, 1245, 1913, 1914, 2334, 2338, 2528, 3548, 3551, 3583, 3920, 3921, 4147, 4148, 4701, 5929, 6756, 6785, 6789, 6790, 6794, 6826, 7062, 8483, 9080, 9381, 10277, 10281, 10559, 11266, 11392, 11394, 11722, 12171, 12177, 12180, 12536, 12587, 12588, 12589, 12936, 12958, 13071, 13076, 13078, 13083, 13123, 13241, 13537, 13544, 13694, 14304, 14305, 15652, 16050, 16183, 16402, 17240, 17717, 17975, 17979, 17980, 18457, 18459, 18499, 18931, 19122, 19458, 19571, 19579, 20010, 20811, 20811, 22281, 22653, 22654, 22655, 22657, 22751, 22793, 22794, 22795, 22797, 22798, 22799, 22802, 23013.
- Cytotoxic, Kato3 hmn stomach cancer cells** 225, 226, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 6621, 10307, 11405, 12414, 12417, 12423, 19535, 19537.
- Cytotoxic, KB ATCC CCL17 hmn nasopharyngeal carcinoma cells** 4941, 5494, 7115, 7182, 10155, 18673.
- Cytotoxic, KB drug-resistant cells** 18866.
- Cytotoxic, KB hmn nasopharyngeal carcinoma cells** 24, 76, 78, 84, 90, 228, 265, 332, 349, 492, 526, 530, 531, 577, 589, 777, 837, 913, 914, 915, 993, 1012, 1277, 1306, 1460, 1470, 1471, 1472, 1492, 1768, 1863, 1864, 1885, 2026, 2109, 2244, 2260, 2338, 2495, 2590, 2604, 2619, 2652, 2653, 2654, 2655, 2656, 2660, 2661, 2677, 2716, 2722, 2810, 2811, 2830, 2990, 2991, 2998, 3181, 3300, 3368, 3402, 3405, 3406, 3416, 3481, 3499, 3513, 3514, 3515, 3600, 3626, 3708, 3729, 3732, 3748, 3777, 3778, 3829, 4048, 4164, 4165, 4166, 4190, 4320, 4323, 4324, 4327, 4547, 4604, 4708, 4739, 4740, 4775, 4939, 5064, 5074, 5074, 5095, 5237, 5238, 5239, 5274, 5275, 5319, 5327, 5401, 5522, 5536, 5537, 5851, 5941, 5973, 6042, 6049, 6483, 6500, 6514, 6516, 6606, 6646, 6647, 6652, 6654, 6750, 6751, 6759, 6759, 6759, 6759, 6759, 6759, 6759, 6759, 6760, 6766, 6913, 7027, 7030, 7031, 7033, 7036, 7041, 7078, 7192, 7193, 7295, 7317, 7550, 7551, 7552, 7553, 7554, 7555, 7556, 7579, 7580, 7581, 7583, 7584, 7585, 7586, 7590, 7593, 7594, 7595, 7650, 7655, 7740, 7912, 7914, 8004, 8079, 8080, 8121, 8220, 8221, 8222, 8235, 8278, 8327, 8328, 8489, 8508, 8509, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8940, 9072, 9187, 9194, 9198, 9320, 9330, 9570, 9859, 9861, 9902, 9917, 9918, 9993, 10047, 10148, 10250, 10297, 10297, 10297, 10310, 10396, 10511, 10588, 10672, 10673, 10680, 10692, 10815, 10816, 10817, 10909, 10915, 11015, 11071, 11230, 11231, 11232, 11295, 11316, 11353, 11355, 11380, 11494, 11636, 11645, 11723, 11736, 11807, 11850, 11977, 11978, 11980, 12188, 12189, 12454, 12487, 12746, 12897, 12917, 12944, 12964, 13023, 13430, 13432, 13464, 13469, 13470, 13472, 13489, 13490, 13492, 13493, 13494, 13495, 13618, 13619, 13620, 13622, 13672, 13845, 14045, 14195, 14602, 14813, 14906, 14934, 14934, 14935, 14935, 14978, 15170, 15242, 15409, 15417, 15494, 15495, 15598, 15635, 15739, 15746, 15776, 15857, 15991, 16020, 16119, 16266, 16280, 16312, 16329, 16337, 16339, 16356, 16402, 16411, 16429, 16444, 16495, 16604, 16693, 16695, 16733, 16747, 16749, 16864, 16984, 17008, 17252, 17430, 17431, 17478, 17557, 17591, 17592, 17603, 17830, 17832, 17862, 17928, 17929, 17998, 18044, 18091, 18114, 18188, 18222, 18224, 18298, 18515, 18523, 18562, 18637, 18637, 18668, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18866, 18892, 19128, 19129, 19148, 19234, 19235, 19373, 19376, 19511, 19542, 19542, 19637, 19638, 19753, 19790, 19900, 20051, 20062, 20063, 20160, 20284, 20285, 20540, 20575, 20626, 20629, 20630, 20631, 20632, 20633, 20634, 20635, 20636, 20637, 20638, 20639, 20640, 20671, 20743, 20800, 20803, 20809, 20809, 20810, 20811, 20811, 20813, 20814, 20833, 20834, 20835, 20852, 20853, 20856, 20873, 20911, 20963, 21313, 21314, 21315, 21316, 21390, 21447, 21448, 21554, 21803, 21830, 22011, 22011,

- 22013, 22013, 22103, 22147, 22148, 22149, 22150, 22232, 22270, 22272, 22301, 22405, 22411, 22412, 22414, 22443, 22543, 22548, 22549, 22630, 22667, 22768, 22784.
- Cytotoxic, KB15 hmn nasopharyngeal carcinoma cells** 15879.
- Cytotoxic, KB16 hmn nasopharyngeal carcinoma cells** 11949, 11951, 16282, 16343.
- Cytotoxic, KB3 hmn nasopharyngeal carcinoma cells** 15920.
- Cytotoxic, KBMRI cells** 10126.
- Cytotoxic, KB-V cells** 11353, 11353, 15919, 17008, 17008, 17009.
- Cytotoxic, KB-V1 cells** 15739, 20809.
- Cytotoxic, KB-VIN vincristine-resistant nasopharyngeal carcinoma cells** 1625, 14934, 14935, 14935, 16864.
- Cytotoxic, Ketr3 hmn renal cancer cells** 6075, 9567, 11081, 17059, 17060, 17061, 17062, 17063, 17064.
- Cytotoxic, KG-1 hmn leukemia cells** 17240.
- Cytotoxic, Kichita sarcoma cells** 15230, 15231, 15232, 15233, 15234, 17591.
- Cytotoxic, KM12 hmn colorectal cancer cells** 3583, 4880.
- Cytotoxic, KM20L2 hmn colorectal cancer cells** 7912, 9859, 9861, 9917, 10672, 10673, 16296, 16312.
- Cytotoxic, KM3 cells** 17528.
- Cytotoxic, KU-1 hmn bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, L₁₂₁₀ lymphocytic leukemia cells** 577, 2304, 2339, 2340, 4048, 4708, 7740, 8360, 8361, 8363, 8364, 8365, 8452, 15409, 15647, 16183, 16411, 16429, 16586, 17557, 17600, 18523, 20009, 20240, 20743, 20771, 20798, 20800, 20813, 20814, 20849, 20850, 20851, 20852, 20853, 20871, 20872, 22281.
- Cytotoxic, L5178Y lymphosarcoma cells** 2811, 13432, 17822, 21493.
- Cytotoxic, L-6 rat skeletal myoblasts** 589, 11978, 17478, 17592, 17592, 22551.
- Cytotoxic, L-929 fibrosarcoma cells** 2492, 2493, 3241, 3548, 4046, 5929, 6437, 9669, 10277, 10281, 10559, 11800, 11801, 12171, 12177, 12180, 14304, 14305, 16599, 17654, 18056, 20811.
- Cytotoxic, lymphoma cells** 21490.
- Cytotoxic, leukemia** 1275, 2660, 2684, 13044, 14945, 16597, 19146, 19221, 22411.
- Cytotoxic, leukemia cells** 11227.
- Cytotoxic, liver cancer cells** 11392, 22270.
- Cytotoxic, LLC mouse Lewis lung cancer cells** 1792, 3227, 3228, 3229, 3230, 4235, 5378, 8187, 10235, 10317, 10403, 10539, 11023, 11278, 11279, 13020, 13021, 13241, 17769, 19777, 20556.
- Cytotoxic, LMTK mouse fiber cells** 5081, 16634.
- Cytotoxic, LNCaP hmn prostate cancer cells** 1863, 3087, 3088, 5074, 6042, 6759, 6759, 7078, 7764, 9013, 9187, 10297, 10396, 10588, 11353, 14045, 14227, 14234, 15739, 15919, 15922, 17008, 18866, 20809, 20811, 21313, 21314, 21315, 21316, 21803.
- Cytotoxic, LO2 hmn liver cells** 11203.
- Cytotoxic, LoVo hmn colorectal cancer cells** 1552, 6164, 6213, 6490, 9376, 9383, 9386, 13403, 16703, 19916, 22077.
- Cytotoxic, LoVo/Doxo hmn colorectal cancer cells, drug-resistant subclone** 6164.
- Cytotoxic, LOX melanoma cells** 4111, 4112, 4113.
- Cytotoxic, LOX-IMVI melanoma cells** 251, 2334, 2338, 4147, 4148, 4880, 5314, 5706, 6162, 16050, 19516, 19517, 19524, 19525, 19526, 21709, 23013.
- Cytotoxic, LS174T colorectal cancer cells** 4913.
- Cytotoxic, Lu1 hmn lung cancer cells** 1863, 2259, 3300, 5319, 5387, 5401, 5536, 6042, 6483, 6500, 6759, 6759, 6759, 7078, 7764, 9187, 10297, 10396, 10588, 11353, 13469, 13470, 14045, 15919, 17008, 18866, 20809, 20811, 21313, 21314, 21315, 21316, 21803.
- Cytotoxic, LUC-1** 15739.
- Cytotoxic, lung cancer cells** 10229, 10230.
- Cytotoxic, LXFL529L hmn large cell lung cancer cells** 2102, 2106, 13241, 20009, 22718, 22720.
- Cytotoxic, lymphleukemia cells** 16864.
- Cytotoxic, lymphocyte sarcoma** 2664.
- Cytotoxic, M1 mus myelocytic leukemia** 17239.
- Cytotoxic, M14 melanoma cells** 3583.
- Cytotoxic, M4BEU hmn melanoma cells** 3241, 9669.
- Cytotoxic, M5076 ovarian sarcoma cells** 16601.
- Cytotoxic, Ma7373 mus breast cancer cells** 11179.
- Cytotoxic, macrophages** 1359.
- Cytotoxic, MALME-3M melanoma cells** 3583.
- Cytotoxic, mammary cancer cells in rat** 12957, 12958.
- Cytotoxic, many of radioresistant and chemoresistant hmn squamous cell carcinoma** 3498.
- Cytotoxic, may serve as a new prototype molecule to develop antitumor agents, the first compound of this type to contain lactone moieties on both sides of the aliphatic chain and to lack either tetrahydrofuran or tetrahydropyran rings** 18897.
- Cytotoxic, MBT-2 mus bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, MCF7 hmn breast cancer cells** 1297, 1303, 1304, 1305, 1310, 1320, 1321, 1322, 1679, 1764, 2006, 2527, 2528, 2735, 2736, 2856, 2857, 2985, 3053, 3096, 3097, 3241, 3303, 3457, 3555, 3583, 3868, 3869, 4310, 4317, 4320, 4323, 4689, 4690, 4880, 4913, 4930, 4986, 5551, 5622, 5826, 5832, 6075, 6221, 6367, 6827, 6828, 7100, 7125, 7126, 7376, 7613, 7614, 7646, 7698, 7788, 7912, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8563, 8570, 8946, 8947, 8948, 9323, 9567, 9669, 9859, 9861, 9885, 9917, 10672, 10673, 10815, 10816, 10817, 11029, 11081, 11269, 11566, 11977, 13092, 13093, 13098, 13518, 13867, 13869, 14934, 14934, 14935, 14935, 15082, 15084, 15085, 15087, 15088, 15089, 15141, 15169, 15902, 15903, 15916, 16020, 16021, 16296, 16312, 16402, 16676, 16693, 16694, 16695, 16832, 17059, 17060, 17061, 17062, 17063, 17064, 17309, 17619, 17973, 18170, 18171, 18172, 19427, 19516, 19517, 19524, 19525, 19526, 20244, 20641, 20643, 20644, 20811, 20811, 20811, 20811, 20811, 21435, 22011, 22013, 22077, 22208, 22208, 22209, 22281, 22781.
- Cytotoxic, MCF7/6 hmn breast cancer cells** 12344.
- Cytotoxic, MCF7/ADR-RES hmn breast cancer cells** 3583.
- Cytotoxic, MCF7-ras hmn breast cancer cells** 11977, 22077.
- Cytotoxic, MDA-MB-231 hmn breast cancer cells** 2528, 3555, 4880, 5532, 7698, 7698, 8932, 8933, 8934, 8936, 8947, 8948, 20811, 20811.
- Cytotoxic, MDA-MB-231/ATCC hmn breast cancer cells** 3583.
- Cytotoxic, MDA-MB-435 hmn breast cancer cells** 2102, 3583, 11659, 20397.

- Cytotoxic, MDA-N hmn breast cancer cells** 3583.
- Cytotoxic, mechanism was considered to be an inhibition of oxygen consumption and depletion of glutathione in tumor cells** 11179.
- Cytotoxic, mechanism was postulated to be due to covalent binding of oridonin to a specific site of enzymes in tumor cells** 16183.
- Cytotoxic, Mel-2 cells** 15739, 15923, 17008, 20137.
- Cytotoxic, MEL-28 hmn melanoma cells** 1924, 1925, 1926, 14492, 14645, 14646, 16427.
- Cytotoxic, melanoma cells** 16864.
- Cytotoxic, Meth-A sarcoma cells** 1792, 3227, 3228, 3229, 3230, 4235, 5378, 8186, 8187, 8188, 10229, 10230, 10317, 10403, 10539, 13019, 13020, 13021, 13241, 17769, 19777, 20556.
- Cytotoxic, MG** 18461.
- Cytotoxic, MGC803 hmn gastric adenocarcinoma cells** 16183.
- Cytotoxic, MH₁C₁** 19143.
- Cytotoxic, MH-60 mus leukemia cells** 7192, 7193, 7912, 16312, 16329, 18637.
- Cytotoxic, MI4 melanoma cells** 5706.
- Cytotoxic, MIA-PaCa-2 hmn pancreas cancer cells** 1297, 1303, 1304, 1305, 6827, 6828.
- Cytotoxic, MK1 hmn stomach cancer cells** 16599, 18944, 18950, 18951, 18952, 18953.
- Cytotoxic, MKN1 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN28 hmn stomach cancer cells** 1625, 4880, 6785, 12202, 12958, 18714, 18931, 22793, 22794, 22795.
- Cytotoxic, MKN45 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN7 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN74 hmn stomach cancer cells** 4880.
- Cytotoxic, MMOC assay, inhibition of DMBA-induced preneoplastic lesions *in vitro*** 3602, 5595, 6064, 7204, 8278, 10430, 10741, 11504, 20485, 20610, 21410, 21483.
- Cytotoxic, Molt4 hmn lymphoma cells** 3583, 5081, 13241, 15750, 16634.
- Cytotoxic, Mono-Mac-6 mononuclear cells** 2495, 4190, 4604, 5851, 5973, 7295, 10047, 17830.
- Cytotoxic, mouse alveolus non-cancer fibrocytes LMTK** 15750.
- Cytotoxic, mouse mammary organ culture model MMOC** 240, 4151, 4179, 4180.
- Cytotoxic, mouse TPA-induced skin tumor** 17763.
- Cytotoxic, MRC-5 hmn diploid embryonic cells** 19892.
- Cytotoxic, MT2 cells** 3816.
- Cytotoxic, MT-4 cells** 8436.
- Cytotoxic, MTT assay** 2985, 4893, 5375, 5551, 12397, 12398, 15652, 15916, 19536, 21845, 22299, 22653, 22654, 22655, 22988.
- Cytotoxic, mus mammary organ culture assay** 1453, 1454, 3568, 4151, 4282, 5679, 6497, 7788, 7824, 10741, 10827, 11504, 11804, 15714, 20326, 21440, 21483, 22705, 22715.
- Cytotoxic, mutant yeast strain RAD 52Y** 6710, 6711, 6714, 12537, 19061.
- Cytotoxic, NCI 60 hmn tumor cell lines screen** 3583, 14719, 17722, 19296.
- Cytotoxic, NCI-H1417 hmn small cell lung cancer cells** 17979.
- Cytotoxic, NCI-H187 hmn small cell lung cancer cells** 349, 526, 1277, 2244, 3416, 3429, 3708, 3940, 4775, 5064, 5276, 5827, 6759, 8220, 8221, 8222, 8235, 8315, 13484, 13487, 13489, 13490, 13492, 13493, 13494, 13495, 15494, 15495, 20671.
- Cytotoxic, NCI-H226 hmn non-small cell lung cancer cells** 1625, 4763, 4880, 10558, 20720, 20721, 20722, 20811.
- Cytotoxic, NCI-H23 hmn lung cancer cells** 3583, 4880.
- Cytotoxic, NCI-H460 hmn lung cancer cells** 2528, 4880, 7125, 7126, 7613, 7614, 7698, 7912, 8563, 8570, 8669, 8670, 8671, 9859, 9861, 9917, 10672, 10673, 11890, 13092, 13093, 13098, 13328, 16296, 16312, 18170, 18171, 18172, 18714, 20811.
- Cytotoxic, NCI-H522 hmn lung cancer cells** 1625, 3583, 4880.
- Cytotoxic, NK/LY ascites cancer cells** 13137.
- Cytotoxic, no explanation on cell species** 370, 576, 595, 597, 598, 1748, 1789, 1971, 2034, 2073, 2119, 2130, 2227, 2303, 2529, 2946, 3063, 3076, 3294, 3388, 3467, 3565, 4348, 4349, 4350, 4351, 4353, 4399, 4414, 5136, 5168, 5187, 5236, 6027, 6261, 6737, 7559, 7739, 8239, 9304, 9655, 11052, 11379, 11386, 11423, 11636, 12225, 12501, 12916, 13072, 13473, 13522, 14086, 14121, 14821, 14822, 14830, 14835, 14836, 15335, 15634, 15635, 15637, 15764, 15782, 15801, 16019, 16119, 16128, 16205, 16278, 16674, 16675, 16747, 16748, 16749, 16929, 16978, 17037, 17038, 17041, 17200, 17201, 17558, 17594, 17619, 17665, 17666, 17667, 17668, 17669, 17670, 17671, 18114, 18297, 18522, 18567, 18679, 18843, 19194, 19313, 19315, 19468, 19904, 19905, 19906, 19907, 20121, 20171, 20235, 20387, 20496, 20664, 20730, 21559, 21889, 22268, 22407, 22420, 22475, 22818, 22965, 22970, 22972, 22987.
- Cytotoxic, no reversal effect of VCR resistance** 1625.
- Cytotoxic, no significant differential cellular sensitivities when it was evaluated in the Japanese Foundation for Cancer Research 39 cell line assay** 18714.
- Cytotoxic, non-parvicellular lung cancer, with strong selectivity** 20813.
- Cytotoxic, normal EAC-E4cells** 7586, 7593.
- Cytotoxic, normal hmn cell, fibroblasts** 9669.
- Cytotoxic, normal Rkcells** 7586, 7593.
- Cytotoxic, NSCLC-N6 hmn non-small cell lung cancer cells** 10340, 10573.
- Cytotoxic, NSCLCN6-L16 non-small cell lung cancer cells** 16495.
- Cytotoxic, NUGC hmn stomach cancer cells** 955, 8935, 8936, 10344, 16891, 22114, 22459.
- Cytotoxic, NUGC-3 hmn stomach cancer cells** 2006, 4317, 4320, 4323, 5573, 5574, 7035, 13294, 17973, 20495.
- Cytotoxic, NUGC-4 hmn stomach cancer cells** 19535, 19537.
- Cytotoxic, ornithine decarboxylase inhibition assay** 1372, 5543, 15412.
- Cytotoxic, OVCAR-2780 ovarian adenocarcinoma cells** 12531, 12532, 12533.
- Cytotoxic, OVCAR-3 ovarian adenocarcinoma cells** 1617, 4128, 4880, 4891, 7044, 7698, 12511, 17979, 18673, 18714, 19308, 20811, 22962.
- Cytotoxic, OVCAR-4 ovarian adenocarcinoma cells** 4880.
- Cytotoxic, OVCAR-5 ovarian adenocarcinoma cells** 3583, 4880.
- Cytotoxic, OVCAR-8 ovarian adenocarcinoma cells** 4880, 18714.
- Cytotoxic, P₃₈₈ mouse lymphocytic leukemia cells** 378, 577, 913, 914, 915, 1008, 1306, 1367, 1691, 1924, 1925, 1926, 2005, 2047, 2109, 2219, 2260, 2303, 2304, 2677, 2694, 2811, 3181, 3257, 3266, 3267,

- 3268, 3271, 3476, 3602, 3710, 3829, 3936, 3974, 3975, 4135, 4291, 4471, 4680, 4690, 4708, 4986, 5327, 5841, 5843, 5901, 5941, 6010, 6014, 6165, 6181, 6183, 6204, 6204, 6284, 6285, 6289, 6328, 6402, 6404, 6405, 6606, 6642, 6759, 6759, 6760, 6761, 6776, 7568, 7569, 7611, 7674, 7675, 7677, 7681, 7682, 7683, 7684, 7740, 7764, 7788, 7789, 7951, 8167, 8203, 8204, 8205, 8556, 8824, 9035, 9226, 9362, 9544, 9594, 9883, 10116, 10462, 10468, 10511, 11428, 11494, 11605, 11842, 11854, 11855, 11856, 11858, 11860, 11861, 11862, 11863, 11978, 12122, 12125, 12254, 12886, 12887, 12888, 12964, 13023, 13038, 13468, 13469, 13470, 13673, 13685, 13808, 14139, 14254, 14492, 14572, 14645, 14646, 14846, 15073, 15074, 15598, 15645, 15739, 15762, 15792, 15879, 15919, 15920, 15921, 16122, 16261, 16262, 16282, 16283, 16343, 16356, 16403, 16411, 16427, 16429, 16495, 16601, 16661, 16662, 16695, 16733, 16966, 17218, 17557, 17591, 17603, 17696, 17973, 18033, 18044, 18054, 18057, 18444, 18472, 18485, 18523, 18754, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 18994, 19041, 19057, 19143, 19148, 19483, 19485, 19486, 19983, 19985, 20002, 20051, 20240, 20244, 20284, 20285, 20363, 20809, 20843, 21080, 22451, 22452, 22453, 22454, 22455, 22456, 22457, 22458, 22735, 23005.
- Cytotoxic, P₃₈₈/ADM doxorubicin-resistant mouse lymphocytic leukemia cells** 492.
- Cytotoxic, P₃₈₈/DOX cells** 16495.
- Cytotoxic, P₈₁₅** 4135.
- Cytotoxic, PACA-2 hmn pancreas cancer cells** 1320, 1321, 1322, 3457, 11269, 14906, 18240, 22781.
- Cytotoxic, PANC1 hmn pancreas cancer cells** 17979.
- Cytotoxic, panel of hmn cancer cell lines, according to established protocols of Likitwitayawuid 1993 and Seo 2001** 6346, 14342.
- Cytotoxic, partial reversal of doxorubicin resistance** 22830.
- Cytotoxic, parvicellular lung cancer, with strong selectivity** 20813.
- Cytotoxic, PBMC peripheral blood mononuclear cells** 11978, 17478.
- Cytotoxic, PC12 hmn lung cancer cells** 159, 1792, 3300, 6160, 22580.
- Cytotoxic, PC13** 2811.
- Cytotoxic, PC3 hmn prostatic cancer cells** 251, 1297, 1303, 1304, 1305, 1320, 1321, 1322, 2334, 2338, 2528, 3241, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3274, 3457, 3498, 3583, 4147, 4148, 4762, 4763, 4880, 5297, 5314, 6162, 6827, 6828, 9669, 10558, 11269, 11802, 12446, 14906, 14934, 14935, 14935, 16050, 17979, 18211, 18714, 19516, 19517, 19524, 19525, 19526, 20248, 20720, 20721, 20722, 20811, 20811, 20811, 21709, 23013.
- Cytotoxic, PC-3M-1E8** 11659, 20397.
- Cytotoxic, PC-6 hmn lung cancer cells** 17973.
- Cytotoxic, PD assay** 1310, 1679, 7788, 8946, 11864, 15084, 15085.
- Cytotoxic, platelet aggregation inhibitor** 22969.
- Cytotoxic, PLC/PRF/5 hmn liver cancer cells** 1992, 2102, 2106, 3143, 17252.
- Cytotoxic, polymorphism malignancy glioma** 16548, 16549.
- Cytotoxic, potato culture dish PD test** 15902.
- Cytotoxic, protein quantification assay** 4893.
- Cytotoxic, PSN1 hmn pancreas cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.
- Cytotoxic, PTX10 ovarian cancer cells with β -tubulin mutation** 14934, 14935.
- Cytotoxic, QGY-7703 hmn liver cancer cells** 16686, 18483.
- Cytotoxic, quinone reductase induction assay** 1380, 1381, 1382, 1383, 1384, 1386, 1388, 1392, 1393, 1401, 1403, 1404, 1406, 1407, 1408, 1409, 1410, 1411, 1413, 1414, 1415, 1416, 1418, 1419, 1420, 1425, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 2468, 2857, 3602, 4282, 6228, 6246, 7670, 7788, 8278, 10430, 10827, 11504, 11804, 12953, 14074, 14075, 16498, 19542, 19910, 21918, 22615, 22715.
- Cytotoxic, RAD+ wild type yeast strain** 6710, 6711, 6714, 12537, 19061.
- Cytotoxic, radiosensitizing agent** 11179.
- Cytotoxic, Raji cells** 6254, 6776, 10068, 20010.
- Cytotoxic, RB cells** 18545.
- Cytotoxic, RL33 rbt lung cancer cells** 11980.
- Cytotoxic, Rous sarcoma virus** 3481.
- Cytotoxic, RPMI** 2677.
- Cytotoxic, RPMI-7951 melanoma cells** 3296, 16548, 16549, 17144, 17603, 17895, 17896, 18202, 20389, 22435.
- Cytotoxic, RPMI-8226 leukemia cells** 3583.
- Cytotoxic, RXF-393 renal cancer cells** 3583.
- Cytotoxic, RXF-631L renal cancer cells** 4880.
- Cytotoxic, S₁₈₀ mouse sarcoma cells** 3502, 8187, 8188, 13021, 16414, 22232.
- Cytotoxic, S-180V cells** 11179.
- Cytotoxic, Sca7901 hmn gastric adenocarcinoma cells** 4460.
- Cytotoxic, SCL hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SCL-37'6 hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SCL-6 hmn stomach cancer cells** 6621, 11405, 19535, 19537.
- Cytotoxic, SCL-9 hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SDK cells** 17528.
- Cytotoxic, Selective DNA-damaging activity** 1961, 3053.
- Cytotoxic, SF268 hmn brain tumor cells** 3583, 4880, 7126, 7912, 8563, 8570, 8669, 8670, 8671, 9859, 9861, 9917, 10672, 10673, 13092, 13093, 13098, 13328, 16296, 16312, 18170, 18171, 18172.
- Cytotoxic, SF295 hmn brain tumor cells** 3583, 4880, 18714.
- Cytotoxic, SF539 hmn brain tumor cells** 1625, 3583, 4111, 4112, 4113, 4880.
- Cytotoxic, SGC hmn stomach cancer cells** 6055.
- Cytotoxic, SGC7901 hmn stomach cancer cells** 12202.
- Cytotoxic, SiHa hmn cervical carcinomacells** 1992, 7032, 11977, 22077.
- Cytotoxic, SKBR3 hmn breast cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.
- Cytotoxic, SKCO1 colorectal cancer cells** 4913.
- Cytotoxic, SK-MEL hmn caucasian melanoma cells** 11636, 18114.
- Cytotoxic, SK-MEL-2 hmn melanoma cells** 2334, 2338, 3583, 4147, 4148, 14934, 14934, 16050, 16370, 18011, 20679, 20680, 20681, 23013.
- Cytotoxic, SK-MEL-28 hmn melanoma cells** 3583.

- Cytotoxic, SK-MEL-5 hmn melanoma cells** 3583, 5706.
- Cytotoxic, SK-MES-1 bronchogenic carcinoma cells** 12398.
- Cytotoxic, SK-OV-3 ovarian adenocarcinoma cells** 4880, 7535, 11636, 18011, 18114, 20679, 20680, 20681.
- Cytotoxic, SMMC-7721 hmn liver cancer cells** 11203, 14828, 16675, 18034.
- Cytotoxic, SNB75 hmn brain tumor cells** 4880.
- Cytotoxic, SNB78 hmn brain tumor cells** 1625, 4880.
- Cytotoxic, SNU638 hmn gastric adenocarcinoma cells** 6277, 6282, 6759, 10438, 21924.
- Cytotoxic, soft agar transformation assay with JB6 cells** 1373, 1385, 1391, 1394, 1395, 1426, 1428, 1429, 1433, 3568, 10827, 11804, 17342, 22715.
- Cytotoxic, specific activity for cancer cells** 16265.
- Cytotoxic, SR leukemia cells** 3583.
- Cytotoxic, St4 stomach cancer cells** 4880.
- Cytotoxic, stomach cancer cells** 924, 22232.
- Cytotoxic, sulforhodamine-B assay** 12344.
- Cytotoxic, SW620 hmn colorectal adenocarcinoma cells** 225, 226, 251, 463, 2257, 2261, 2262, 3583, 4268, 4269, 5314, 5942, 5945, 6162, 10307, 12414, 12417, 12423, 16599, 17973, 21709.
- Cytotoxic, T24 hmn liver cancer cells** 1992, 12587, 12589, 13537.
- Cytotoxic, T24S hmn bladder cancer cells** 16402.
- Cytotoxic, T47D hmn breast cancer cells** 7032, 8187, 8188, 12541, 13020, 13021, 17979.
- Cytotoxic, T98G hmn caucasian gioblastoma cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.
- Cytotoxic, TE-671** 2677.
- Cytotoxic, TK10 renal cancer cells** 4930.
- Cytotoxic, T-lymphocyte** 1359.
- Cytotoxic, Tmolt3 hmn leukemia cells** 15409.
- Cytotoxic, topoisomerase I inhibitor** 6835, 9011.
- Cytotoxic, toxic to topoisomerases I and II** 7704.
- Cytotoxic, toxin** 12138.
- Cytotoxic, U14 mouse cervical carcinoma cells** 11179.
- Cytotoxic, U251 brain tumor cells** 3583, 4880, 5706, 18714, 22281.
- Cytotoxic, U373 caucasian gioblastoma cells** 11353, 15739, 15919, 15922, 15923, 17008, 18866.
- Cytotoxic, U-87-MG caucasian gioblastoma cells** 14934, 14935, 14935.
- Cytotoxic, U937 hmn monocytic leukemia cells** 2956, 2957, 2958, 2964, 3911, 7060, 7153, 7436, 8360, 8361, 8363, 8364, 8365, 11895, 13241, 14347, 16675.
- Cytotoxic, UACC62 melanoma cells** 3583, 4930.
- Cytotoxic, uncoupling of oxidative phosphorylation** 3498.
- Cytotoxic, UO-31 renal cancer cells** 2528, 3583, 20811.
- Cytotoxic, V-79 cells** 3181, 4081, 4082, 4083, 4084.
- Cytotoxic, Vero green monkey kidney tumour cells** 6759, 6759, 6776, 10068, 11636, 14965, 16266, 18114, 20010, 20253.
- Cytotoxic, W-18Va-2 cells** 7586, 9288.
- Cytotoxic, W₂₅₆ rat Walker sarcoma cells** 4643, 6776, 11023.
- Cytotoxic, WEHI-164 mus fibrosarcoma cells** 1575, 3821, 8715, 8716, 18691, 18693, 22838.
- Cytotoxic, WHCO1 hmn esophageal cancer cells** 2619, 2625, 17564, 17565, 21545.
- Cytotoxic, WI-38 hmn lung fibrocyte (normal hmn diploid fibrocyte)** 3053, 9288, 10773, 11723, 17265.
- Cytotoxic, WiDr colorectal adenocarcinoma cells** 4913, 17979.
- Cytotoxic, Wish transformed epithelial tumour cells** 6776, 10068, 20010.
- Cytotoxic, XF-498 hmn tumour cells** 18011, 20679, 20680, 20681.
- Cytotoxic, yeast assay RS321NpRAD52(glu)** 1961, 3053.
- Cytotoxic, ZR-75-1 hmn breast cancer cells** 9187, 9564, 11353, 15739, 15919, 15923, 17008, 17009, 18866.
- Damages function of liver and kidney** 3692.
- Decolorant** 9739.
- Decreases accumulation of reactive oxygen intermediates** 2102, 2106.
- Decreases some hmn leukocyte functions** 18219, 18220.
- Deodorant** 917, 17486, 17491.
- Depilatory** 14868.
- Dermatitis suppressant** 828, 829, 830, 831, 1293, 1332, 1599, 21434.
- Detail study on pharmacokinetics of baicalin** 2106.
- Detail study on protective effects of evodiamine on myocardial ischemia-reperfusion injury in rats** 7665.
- Detail study on protective effects of rutaecarpine on cardiac anaphylaxis (the protective effects of rutaecarpine on cardiac anaphylactic injury are related to inhibition of TNF- α production by stimulation of CGRP release)** 19081.
- Detumescent** 3983, 5502, 12184, 19910, 21434.
- DGAT inhibitor** 7104, 7663, 12341, 12343, 12344, 12361, 12364, 13922.
- Diabetogenic** 17170.
- Digestive enzymes inhibitor** 3968.
- Digestive tract irritant** 11024.
- Dihydrocoenzyme I (NADH) oxidase inhibitor** 13137.
- Disinfectant** 4234, 4306.
- Dispels phlegm** 13137, 15146, 15221, 20137, 21360.
- Dissolves oncocytes** 22491.
- Diuretic** 480, 664, 892, 893, 899, 1048, 1476, 1618, 1866, 1904, 1935, 2039, 2102, 2106, 3306, 3307, 3615, 4029, 4036, 4080, 4547, 4589, 6455, 6699, 6776, 7278, 7665, 7883, 7944, 8806, 9224, 9335, 9340, 9604, 11141, 11524, 11642, 13504, 14057, 14796, 14971, 15170, 15781, 16031, 16050, 16756, 17571, 17952, 18411, 18652, 18759, 18794, 18859, 19540, 20133, 20168, 20169, 20730, 21310, 21312, 21508, 22301, 22498, 22499, 22668, 22718.
- DNA cleavage inducer, berberrubine induced** 2304.
- DNA isomerase inhibitor** 598, 2034, 2227, 4348, 4349, 11423, 14086, 14121, 15335, 16978, 19468, 19904, 19905, 19906, 19907, 22965, 22969, 22970, 22972.
- DNA strand-scission activity** 22546.
- DNA strand-scission inactive** 22543, 22544, 22545, 22547, 22548, 22549.
- DNA topoisomerase I inhibitor** 6906.
- DNA topoisomerase II inhibitor** 2102, 3935, 20389.
- DNA topoisomerase inhibitor** 370, 595, 597, 6261, 19278.
- Dopamine receptor antagonist** 20324.
- Dopamine receptor antagonist (CNS system)** 2734, 20324.
- Dopaminergic** 763.
- Dormancy factor** 13084.

- Downregulates COX-2 gene expression** 13437, 13435, 13436.
- Downregulates IL-1 β gene expression** 13437, 13435, 13436.
- Downregulates IL-6 gene expression** 13437, 13435, 13436.
- Ecdysteroid agonist** 10063, 10064.
- Ecdysteroid agonist or antagonist inactive** 9326.
- Ecdysteroid antagonist** 12240, 14890, 14891.
- Eclamptogenic** 642, 1738, 2716, 3637, 4051, 5108, 5136, 7980, 10734, 10877, 13001.
- Ectoparasiticide;** 17269, 20262.
- Effective component in *Acacia melanoxylon* (HEI MU JIN HE HUAN) known to cause contact dermatitis** 62.
- Effective component in *Alangium chinense* (BA JIAO FENG)** 1125.
- Effective component in *Plantago asiatica* (CHE QIAN)** 17505.
- Effective component in *Pueraria lobata* (GE GEN)** 18180.
- Effective component in *Schisandra chinensis* (WU WEI ZI)** 19473.
- Effective component in *Schizonepeta tenuifolia* (JING JIE) to settle pain** 13776.
- Effective component in seeds of *Melia azedarach*** 2050.
- Effective component in total alkaloids of Common Devilpepper, *Rauwolfia verticillata* (LUO FU MU)** 18633.
- Effective component in Virgate Wormwood, *Artemisia scoparia* (HUANG HAO)** 19540.
- Effective component in Yellow Toadflax, *Linaria vulgaris* (LIU CHUAN YU)** 16756.
- Egg laying stimulator** 2455, 15287.
- Elastase inhibitor** 306, 580, 2887, 3695, 4163, 9238, 11195, 16536.
- Elastase inhibitor inactive** 9561.
- Emetic** 3400, 5436, 6772, 13241, 15452, 17995, 18095.
- Enhances action of β -adrenalin** 15127.
- Enhances action to boost blood pressure caused by adrenalin** 6439.
- Enhances activity of esterase** 22269.
- Enhances arterial tension and lowers intravenous tension** 13137.
- Enhances blood pressure increase caused by adrenaline** 6686.
- Enhances cytotoxic effects of daunomycin and vincalucoblastine** 8423, 8427.
- Enhances effects of cytotoxic drugs against cancer metastasis** 8404, 8405.
- Enhances effects of vitamin C** 9458.
- Enhances fibrinolytic activity** 11414.
- Enhances neuromuscular transmission** 21593.
- Enhances phagocytic function** 18114.
- Enhances phagocytosis of granular leukocytes** 17568.
- Enhances respiration** 15288.
- Enhances sedative effects of phenobarbital** 582.
- Enhances sex drive** 2564, 8633, 8634.
- Enhances tension of intestinal canal of cat, but inhibits the tension of rbt** 6691.
- Enhances trypsin activity** 3231.
- Enzymatic substrate (arginase, anginine decarboxylase, L-amino-acidoxidase)** 9798.
- Essential amino acid** 17093, 22060.
- Essential for growth** 18656.
- Estrogenic activity** 1290, 2384, 3911, 4080, 4190, 4604, 6440, 7387, 7883, 8282, 8372, 12344, 14883, 17028, 17834, 17838, 19540, 19618, 20041, 20685, 22718.
- Excitation to the peripheral nervous system** 13711.
- Extends the period of fertility in rat** 1599.
- Extremely bitter** 4315, 15454, 15542.
- Farnesyl transferase inhibitor** 4302.
- Farnesylprenyltransferase (PFase) inhibitor** 6162, 9564, 10751, 12448, 21709, 21856.
- Farnesyl-protein transferase inhibitor** 9908.
- Fatty acid synthetase inhibitor** 18317.
- Feeding irritant (*Plutella maculipennis*)** 3317, 17903.
- Feeding pregnant rat** 20670.
- Fibrinolytic function** 4631, 10967.
- Flavorant** 2808, 2850, 3237, 3241, 3242, 3766, 3767, 3768, 4305, 6501, 7463, 7734, 9110, 9601, 9669, 11183, 12569, 13779, 15498, 15500, 15705, 17913, 17914, 19927, 19928, 22217, 22440, 22441, 22920.
- Flavorant, conditioning agent** 23010.
- Food additive** 832, 3139, 3142, 3209, 3350, 3354, 15705.
- Frees menstruation** 1520.
- Fruit protective film** 9363.
- Funk** 19459.
- GABA_A receptor antagonist** 17347.
- Galactin inhibitor** 7236.
- Galactin inhibitor, inhibits release of galactin** 3935, 6765, 7232, 7243, 7234, 7240.
- Ganglionic blocker** 1134, 3633, 4459, 6686, 6699, 6734, 7325, 7328, 7330, 12571, 13373, 13374, 13716, 22427.
- Ganglionic stimulant** 1658, 3070.
- Gastric secretion inhibitor** 777, 1599, 20082.
- Gastric secretion promotor** 2887, 4097, 8304, 16770.
- Gastroprotective** 6980, 10364, 19983.
- Gastroprotective, ethanol- and indomethacin-induced gastric lesions** 2969, 2970, 2971, 2972, 2973, 4961, 9083, 11273, 11281, 14678, 16384, 17439, 17451, 17461, 18658.
- Gastroprotective, Inhibits ethanol-induced gastric mucosal lesions** 1916, 1917, 21283, 21284, 21287.
- Gastroprotective, inhibits gastric contraction** 4459.
- Gastroprotective, inhibits gastric injury** 4398.
- Gastroprotective, inhibits gastric secretion** 4889, 8273, 8297, 16084, 19201, 19473, 20711.
- Gastroprotective, inhibits gastric ulcer** 8914, 13678.
- Genotoxic** 967, 18058, 18222.
- Germination inhibitor** 36, 2802, 5969, 9596, 9798, 11032, 11158, 13084, 13883, 17425, 18020, 19542, 20146, 20147, 21397.
- Germination/growth inhibitor/stimulator** 7777, 7778, 7788, 14444, 14445.
- Glandular secretion inhibitor** 2001.
- Glucagon secretion promotor** 832.
- Glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles)** 22270.
- Glucose consumption activity** 7505.
- Glucose dehydrogenase inhibitor** 1319.
- Glucose transferase inhibitor** 13315.

- Glucosidase I and α -, β -glucosidase inhibitor** 6028.
- Glutamnergic agonist** 8308.
- Glycation inhibitor** 3605, 3606.
- Gonad stimulating principle** 823.
- Gonad stimulating principle** 12916.
- Granular release inhibitor** 8278, 18685.
- Granulation stimulator** 1853.
- Growth factor for animals and microorganisms** 11083.
- Growth retardant** 14134.
- Growth-Stimulating factor** 22305.
- H⁺,K⁺-ATPase inhibitor** 19201, 19537, 20082.
- Hallucinogen** 2726, 3477, 4594, 9235, 13255, 13795, 15204, 21059.
- Hematopoietic** 1845, 7852.
- Hemolytic** 660, 1554, 2029, 2030, 3939, 4005, 4029, 4457, 6755, 6756, 6759, 7748, 8424, 8968, 9294, 13635, 16666, 18229, 18534, 18702, 18916, 19148, 19316, 19333, 19334, 19335, 19336, 19337, 19338, 19339, 19340, 19341, 20060, 20069, 21282.
- Hemostatic** 759, 1058, 2048, 2304, 2887, 3308, 3551, 5101, 5105, 6757, 9703, 9719, 12580, 14826, 16756, 17655, 18086, 18411, 19749, 19750, 20254, 21955, 22562.
- Hepatoprotective** 4398, 10314, 20806, 21157.
- Hepatoprotective, alanine aminopherase inhibitor** 16050.
- Hepatoprotective, aminotransferase inhibitor** 3498, 8907, 10351, 16851, 22270.
- Hepatoprotective, biosynthesis of hepatic glycogen, promoter** 8906.
- Hepatoprotective, H₂O₂-induced toxicity** 2039, 11897, 12082, 15184, 18319, 18320, 18411.
- Hepatoprotective, hepatic cell recondition and regeneration, promoter** 16050.
- Hepatoprotective, hepatotoxin inhibitor, induced by GalN** 993, 6290, 7302, 12097, 17493, 17494, 18103, 18398, 22667, 3004, 5235, 5834, 7300, 7301, 7883, 8278, 10007, 10009, 13281, 13638, 14638, 16209, 21918.
- Hepatoprotective, improves appetite and symptoms in hepatitis patients** 18261.
- Hepatoprotective, inhibits activation of macrophages, inhibits increase in sALT and sAST levels** 8423, 8425, 8426, 8427, 8428, 8430, 8435, 9168, 15836, 15840.
- Hepatoprotective, inhibits cellular leakage of LDH and AST, and cell death** 9631, 13388.
- Hepatoprotective, inhibits GSH depletion** 9631, 13388.
- Hepatoprotective, Inhibits liver damage** 16579, 16580, 16581, 20121, 20122.
- Hepatoprotective, inhibits liver damage induced by GalN, LPS or CCl₄** 18398.
- Hepatoprotective, inhibits SGPT, reduces the raised SGPT due to acute liver injury induced by CCl₄** 20505.
- Hepatoprotective, inhibits stored triglyceride in primary cultured mouse hepatocytes** 15563, 15564, 15565, 15566.
- Hepatoprotective, inhibits tBH-induced lipid peroxidation** 9631, 13388.
- Hepatoprotective, liver regeneration promoter** 7385.
- Hepatoprotective, reduces accumulation of trilaurin in liver** 8846.
- Hepatoprotective, reduces GPT** 20099.
- Hepatoprotective, SGPT inhibitor** 19377.
- Hepatoprotective, SGPT, SGOT and ALP inhibitor** 20503.
- Hepatotoxin** 2015, 7636, 9316, 9318, 10238, 11019, 11091, 13235, 17040, 18842, 18854, 19714, 20488, 21051.
- Herbicide** 1846, 6598, 12501, 13883, 18841.
- Herbicide inactive** 15518, 15519.
- 5-HETE production inhibitor** 7924.
- 12(S)-HETE production inhibitor** 4281, 12766, 19983.
- 12(S)-HETE production inhibitor inactive** 9, 3354, 4916, 15705, 20465.
- Hexokinase inhibitor** 2684.
- Histamine antagonist** 12083, 16098, 18454, 18455, 22023.
- Histamine secretion promotor** 15811.
- Histidine decarboxylase inhibitor** 8278, 15279.
- Hormone of defoliation** 36.
- Hormone secreted by medulla of adrenal gland** 15708.
- 5-HT inhibitor** 13255, 15279, 18317.
- 5-HT receptor antagonist, rbt *in vitro* aortal contraction induced by 5-HT** 1857.
- 5-HT receptor blocker, gpg uterus** 7243.
- 5-HT receptor inhibitor, D receptor and M receptor** 16098.
- Hyaluronidase inhibitor** 5415, 6855, 6856, 6858, 6859, 11095, 17866, 17867, 18203, 18368.
- 11 β -Hydroxylase inhibitor** 1162.
- 11 β -Hydroxysteroid dehydrogenase inhibitor** 8427.
- 3 α -Hydroxysteroid dehydrogenase inhibitor** 9456, 16539.
- Hypnotic** 115, 1048, 2113, 2303, 2734, 3220, 3368, 4119, 4120, 6193, 7341, 9184, 9223, 9224, 11259, 11260, 11408, 11679, 14531, 16532, 21077, 22336, 22346, 22375, 22820.
- Hypoglycemic** 1972, 2303, 2969, 2970, 2971, 2972, 2973, 3321, 3907, 3923, 3924, 4140, 6178, 7705, 8052, 8091, 11067, 12255, 12447, 12734, 13098, 13100, 14290, 15882, 16050, 16792, 16931, 18599, 20341, 20383, 20732, 20896, 20898, 21055, 22269, 22498, 22499.
- hypoglycemic and lowers urine sugar** 22269.
- Hypotensor and vasodilator** 9553.
- Ichthyotoxin** 126, 136, 1990, 2402, 2403, 2697, 2976, 3541, 4976, 5858, 6040, 6262, 7063, 7189, 7404, 7448, 7449, 9691, 9877, 10775, 11077, 11903, 11977, 11978, 13801, 14347, 14348, 16564, 16659, 17411, 17413, 17417, 18165, 19469, 19471, 20986, 21507.
- IFN- γ inhibitor** 2106, 14976, 14977, 22686, 22687, 22688.
- IL-1 inhibitor, in mus enterocelia macrophages** 3368.
- IL-10 inhibitor** 20992.
- IL-10-like activity** 8095, 18317.
- IL-12 inhibitor** 2102, 10886, 17240.
- IL-1 α inhibitor** 15635.
- IL-1 β inhibitor** 2106, 3307, 3368, 15635, 16532, 16539, 17460, 17862, 20686, 20992, 22686, 22687, 22688, 21397.
- IL-2 inhibitor** 14976, 14977, 16675, 22686, 22687, 22688.
- IL-2 inhibitor in mus splenocyte** 3368.
- IL-2 secretion inhibitor** 7519, 11318, 12106, 15331, 16216, 19515, 22718.
- IL-4 inhibitor** 5430, 14976, 14977, 22686, 22687, 22688.
- IL-4 release inhibitor** 5424.

- IL-4 release inhibitor inactive** 5420, 5421, 5422, 5423, 5425.
- IL-6 inhibitor** 2004, 2102, 2106, 3307, 7714, 11521, 11522, 15635, 16532, 17240, 20686, 21206.
- IL-6 release inhibitor** 3674, 6288, 8278, , 13137, 18317, 21930.
- IL-8 inhibitor** 2102, 6288, 20992, 21930, 22718.
- IL-8 secretion inhibitor** 79, 82, 83, 20486.
- Immunoenhancer** 266, 1275, 1626, 1627, 1713, 1936, 2300, 3906, 4837, 5120, 5122, 5446, 6459, 6961, 7788, 11179, 11680, 12501, 13137, 15221, 17569, 18534, 19143, 19148, 20100, 22938.
- Immunoenhancer inactive** 11679, 18826.
- Immunological adjuvant activity, increases serum IgG level** 15818, 15820, 15821, 15825, 15826, 15827, 15829, 15830, 15832, 18448, 18449, 18451.
- Immunomodulator** 85, 909, 2890, 3368, 4645, 7487, 7924, 13435, 13436, 13437.
- Immunostimulant** 11539, 11636, 14889, 18114, 22206, 22207.
- Immunosuppressant** 899, 1359, 1544, 1545, 1546, 1547, 2208, 3368, 3599, 3649, 3756, 4292, 5121, 5488, 5489, 5721, 6070, 7519, 7657, 8023, 8024, 9367, 10580, 10814, 11318, 11882, 12106, 12827, 15319, 15331, 15538, 16216, 16410, 16649, 17592, 18221, 18221, 18549, 18550, 19515, 19869, 19870, 20094, 20685, 20686, 21521, 21579, 21580, 21581, 21585, 21586, 21587, 21588, 21831, 22664, 22679, 22685, 22695, 22718.
- Immunosuppressant inactive** 1542, 1543, 10776, 18695, 18696.
- Important medium of inflammation and anaphylaxis** 9568.
- Important role in normal metabolic processes** 8785.
- Improves erythrocyte's ability to change shape** 1937, 1939.
- Improves hyperplasia of spleen lymphocyte** 4384.
- Improves permeability of BBB** 19587.
- Improves respiration** 8289.
- Increases absorption through skin** 16066.
- Increases activity of choline acetyltransferase in rat cerebrum** 11209, 11211.
- Increases amount of lactic acid in zoiic blood** 1972.
- Increases blood flow through kidney** 14796.
- Increases blood pressure** 580, 2304, 2716, 2726, 3070, 3475, 3729, 3732, 4477, 4547, 5229, 6418, 6815, 7825, 7980, 8257, 8423, 9459, 11507, 13169, 13237, 13281, 13543, 14796, 17220, 17996, 18637, 19223, 19299, 19449, 19451, 19452, 19639, 20077, 22144.
- Increases blood pressure and blood flow through the coronary arteries** 15708.
- Increases blood pressure and enhances myocardial contractility** 16261.
- Increases blood pressure and raises heart rate** 19198.
- Increases fertility** 8405.
- Increases leucocyte** 2300.
- Increases level of arterenol and dopamine** 12254.
- Increases level of blood sugar** 8297, 20060, 20066, 20069.
- Increases spread and mobility of macrophage** 5414.
- Increases the rate and depth of breathing** 15708.
- Increases the weight and RNA content of both prostate and testis** 6754.
- Increases tolerance to anoxia** 9631, 1275, 2303, 3633, 4630, 4889, 11259, 11260, 15129, 17764, 19196.
- Indispensable for cell growth, promotes biosynthesis of protein** 18261.
- Induces activity of cytochrome system** 15204.
- Induces cell cleavage arrest** 2238, 4823, 4824, 6325.
- Induces cell cleavage arrest inactive** 12140.
- Induces cell differentiation** 11716, 19211, 19929, 21185, 21913, 22859.
- Induces distortion of mycelial (mold of rice blast)** 6703.
- Induces expression of defense genes in uninfected leaves** 9528.
- Induces formation of spore** 19534.
- Induces gene expression changes (hmn fibroblast)** 1853, 1854, 13337, 13338.
- Induces gene expression of pea nodule bacteria and accrete host *Pisum sativum*** 7278.
- Induces geno-defect** 22974.
- Induces growth of radial root nodule commensal "Frankia"** 6502.
- Induces hyperplasia** 20683, 20684.
- Induces lipid peroxidization** 17168.
- Induces mitochondria-mediated apoptosis** 317.
- Induces nodulin gene expression of symbion in *Rhizobium leguminosarum* and *Pisum sativum*** 15279.
- Induces production of estrin synthetase and cruarin** 3600.
- Induces quinone reductase** 10421, 18223.
- Induces sweatiness** 1654, 2550, 7665.
- Induces tissue to produce collagen** 1845.
- Inducing cell differentiation activity** 17239.
- Influences CNS in insects** 3059.
- Influenza virus sialoma inhibitor** 11703, 20515.
- Inhibits ³H-dobamine absorption by synapse of rat striatum** 15797.
- Inhibits ³⁵S-TBPS specially combines with rat brain meninges** 17333, 17334, 17335, 17336.
- Inhibits absorption of GABA and β -alanine** 9092.
- Inhibits acetylcholine** 19388.
- Inhibits activation of transcription factor AP-1** 18317.
- Inhibits activity of cells** 17219.
- Inhibits adenosine diphosphate transfer to adenosine triphosphate** 11141.
- Inhibits adipose peroxidization** 8311.
- Inhibits akaryocyte K⁺ effusion caused by lysolecithin** 3412.
- Inhibits alcohol in blood** 20383, 20384.
- Inhibits autonomic movement** 11741.
- Inhibits autoxidation of linoleic acid** 3559, 19929.
- Inhibits basophile to release histamine** 3602, 7819.
- Inhibits biosynthesis of chlorophyll** 11825.
- Inhibits biosynthesis of cholesterol** 675, 8190, 8191, 15419, 15420, 15421, 18841.
- Inhibits biosynthesis of DNA in mus embryo** 22929.
- Inhibits bloom** 931.
- Inhibits breeding** 16808.
- Inhibits cancer cell invasion** 2040, 3308, 6853, 6864, 6921, 6923, 8098, 10944, 12891, 12893, 15947, 15955, 15956, 16066.
- Inhibits cancer cell invasion inactive** 2892, 18411, 19087, 21310.
- Inhibits carcinogenic action of chemicals** 664.
- Inhibits cell proliferation of PMBC** 6923, 15180, 15184, 20394.
- Inhibits CNS** 15497.
- Inhibits CNS with activity similar to that of morphine** 6552.

- Inhibits combination of leucocyte and its receptor** 4061.
- Inhibits contraction of aorta strip** 17762.
- Inhibits coronal wart growth in potato flower tray** 6776.
- Inhibits cytochrome C and P450** 13514, 21320, 21321.
- Inhibits degradation of insulin** 1618, 8095, 18265.
- Inhibits degranulation and release of β -hexosaminidase (did not affect the enzyme activity of β -hexosaminidase)** 6921, 15154, 15155, 15156, 15157, 15158, 15159, 15160, 15163, 15164, 15165, 15170, 15184, 18413, 20711, 22272.
- Inhibits degranulation of mast cell RBL-2H3** 5722.
- Inhibits ejection of sperm** 6302.
- Inhibits electron-transfer and oxidative phosphorylation** 11130.
- Inhibits endotoxin, promotes dissolution of fibrin** 1939.
- Inhibits englobement of γ -propanaline and β -alanine** 1654.
- Inhibits excitation of striatum adeny cyclase caused by dopamine** 2734.
- Inhibits expression of tissue factor, hmh hyalin leukocyte, induced by interleukin-1** 19929.
- Inhibits expression of tissue factor, hum monocyte induced by interleukin I, anti-coagulant** 3602.
- Inhibits fatigue** 8423, 8426, 8424, 8429, 8430, 8428.
- Inhibits fatigue and promotes interferon inducing formation** 12916.
- Inhibits fermentation of indole-3-acetic acid (IAA)** 9549.
- Inhibits flap and quiver in mus, caused by stress** 4080.
- Inhibits formation of indole-3-acetic acid oxidase and ATP** 19582.
- Inhibits formation of peroxide** 23.
- Inhibits glandular secretion** 10872, 10870.
- Inhibits Glu-mediated excitatory signal pathway in hippocampus (probably acts through its anti-calmodulin action)** 11909.
- Inhibits granulation** 7527.
- Inhibits granulocyte and lymphocyte** 909.
- Inhibits growth of cell and tissue** 21662.
- Inhibits growth of green algae** 12564.
- Inhibits growth of wheat coleoptile** 8282.
- Inhibits herpes simplex** 16796.
- Inhibits hippocampal formation** 11909.
- Inhibits histamine release** 443, 1840, 2359, 2360, 2361, 2362, 3600, 3781, 3782, 3973, 4158, 4159, 4681, 4682, 4683, 4684, 5155, 6351, 7802, 8153, 8167, 9010, 11910, 11913, 17278, 19238, 19239, 19846, 19929, 20009, 20447, 21493, 22720.
- Inhibits IL-1 α -induced proliferation of synovia cells** 13391.
- Inhibits increase of Ca²⁺ concentration caused by ET-1** 15321.
- Inhibits kidney damage in diabetic rat** 8424.
- Inhibits lactation hormone** 16808.
- Inhibits lactic acid bacteria** 6853.
- Inhibits lipolysis** 4055, 7518, 8311, 9456, 19143, 20389, 20910.
- Inhibits L-type calcium current** 20148.
- Inhibits lymphocyte reproduction caused by sheep red blood cell antibody and concanavalin A** 17506.
- Inhibits microzymes** 22638.
- Inhibits minimally oxidized LDL-induced cellular toxicity** 580, 1663, 2134, 2912, 7925.
- Inhibits mitosis** 3502, 17595, 16796, 17590, 17592, 17593, 16795, 17699, 22487.
- Inhibits mitosis of plant cells** 13241.
- Inhibits molds** 17931.
- Inhibits neuroaction** 7793.
- Inhibits neutrophil cells to release β -glucuronidase** 3602.
- Inhibits OH-free radicals damaging AT-III** 7441.
- Inhibits onset of senility** 8388, 8633, 8634, 11490, 22094.
- Inhibits oxidation of LDL** 17869, 17886.
- Inhibits oxidative phosphorylation** 16602, 23014.
- Inhibits phagocytosis of hmh granular cells and stimulates the activity in low dose** 3526.
- Inhibits plasmin and plasminogen** 2266.
- Inhibits present of bilirubin in blood** 4245, 4249.
- Inhibits production of carcinogen** 1845.
- Inhibits production of *Trichoderma viride*** 13635.
- Inhibits proliferation of neuroglia** 4097.
- Inhibits promotor of cancer** 266, 3625, 8968, 11320, 12165, 12166, 12591, 15321, 15361, 16304, 16305, 16314, 16315, 16804, 16998, 17869, 22697.
- Inhibits rat neutrophilic cells** 23.
- Inhibits rat skin passive allergy** 19846.
- Inhibits reaction of actomyosin-adenosine triphosphate system** 3907.
- Inhibits release of β -glucuronidase, lysozym and histamine in mastocyte** 23.
- Inhibits release of Glu-transmitter** 15370, 19737, 19738.
- Inhibits respiration of cytoblast** 4337, 11130.
- Inhibits reuptake of neurotransmitters** 10883.
- Inhibits specifically basic fibroblast growth factor (bFGF)-induced proliferation of bovine aorta endothelial cells (BAECs)** 6364.
- Inhibits sperm movement** 6778.
- Inhibits spontaneous movement** 3354, 4029, 12849, 16451, 18197, 20076, 20077, 20324, 22336, 22346.
- Inhibits spontaneous movement and reflex actions** 17065.
- Inhibits sympathetic nervous system and relaxes blood vessels** 9301, 17869.
- Inhibits synthesis of leukotriene in polymorphonuclear neutrocyte** 12766, 12767.
- Inhibits teleocidin** 19259.
- Inhibits tissue respiration in lung trachea** 7736.
- Inhibits transport of active sodium in bladder** 9233, 9234.
- Inhibits transport of gall** 18841.
- Inhibits zoospore motility** 8605, 8646, 8651.
- Inhibits [¹²⁵I]sauvagine binding to CRH-1 receptor** 10883, 10886, 20012, 20013.
- Insect antifeedant** 425, 524, 525, 788, 789, 809, 1264, 1265, 2050, 2054, 2055, 2119, 3037, 3076, 3246, 3307, 3635, 3837, 4087, 4742, 5342, 5991, 6028, 6402, 7031, 7788, 7972, 8201, 8404, 8405, 8971, 9015, 9496, 9540, 9547, 9570, 9604, 9646, 10053, 10130, 10131, 10132, 10762, 11052, 11203, 11256, 11386, 11430, 11903, 12254, 12336, 12337, 12338, 12339, 12897, 13104, 13237, 13238, 13239, 13670, 14446, 14946, 15189, 15521, 15534, 15535, 15536, 15537, 15606, 15607, 15608, 15609, 15655, 16119, 16572, 16674, 16973, 17047, 17048, 17049, 17168, 17170, 17386, 17421, 17640, 17857, 18411,

- 19087, 19168, 19177, 19194, 19313, 19511, 19837, 19846, 20965, 21207, 21213, 21217, 21218, 21219, 21222, 21224, 21446, 21553, 21889, 22349, 22405, 22406, 22638, 22780, 22784, 22865.
- Insect attractant** 8313, 11025, 17402.
- Insect ecdysone** 794, 811, 4455, 6678, 6679, 11067, 13411, 17583, 17662, 17700, 18162.
- Insect growth inhibitor** 3972, 13104, 15652, 17172, 22755.
- Insect juvenile hormone** 4935, 11987, 11988.
- Insect phagostimulant** 15355, 15458, 18411, 19087, 19463.
- Insect repellent** 11143.
- Insecticidal** 1124, 1348, 2598, 3356, 3761, 3762, 3864, 4550, 5035, 6437, 11149, 14581, 15521, 17117, 17444, 18882, 20240, 22677.
- Insecticidal (*Aedes aegypti* larvae)** 14284, 17473, 17474.
- Insecticidal (*Aedes aegypti*)** 364.
- Insecticidal (*Cylas formicarius elegantulus* adult)** 2847, 2855, 5757, 5758, 5784, 9800, 9801, 9802, 9803, 9870, 9872, 9873, 9874, 9875, 9876, 20249.
- Insecticidal (*Heliothis virescens*)** 15603.
- Insecticidal (*Mythimna separata* larvae)** 16817, 21517, 21520, 21525, 21526.
- Insecticidal (*Mythimna separata*)** 5300, 5312, 21025.
- Insecticidal (*Plutella xylostella*)** 22860, 22861, 22862, 22866, 22871.
- Insecticidal (*Rhyzopertha dominica*)** 15445, 15446.
- Insecticidal (*Sitophilus oryzae*)** 15445, 15446.
- Insecticidal (*Spodoptera littoralis* larvae)** 375, 495, 741, 4964, 5463, 5470, 10677, 10731, 14094, 14714, 16470, 16475, 16476, 16618, 16692, 17992, 18260, 18883, 18884, 18885, 18886, 18887, 18888, 18889, 18890, 18891, 20296, 20304, 20305.
- Insecticidal inactive (*Aedes aegypti*)** 13663.
- Insecticidal inactive (*Spodoptera littoralis* larvae)** 10097, 10098, 21274, 21275.
- Insulin-like activity** 10888, 18339.
- Integrin MAC-1 inhibitor** 2102, 2106.
- Interferes in metabolism of alcohol** 4030.
- Intermediate in phytosterol biosynthesis** 14352.
- Involves in many plant metabolism processes** 10165.
- Involves the metabolism of carbohydrates** 22253.
- Iodinate thyronine deiodinase inhibitor** 2011, 3454, 3600, 7802, 12020, 13137, 14971, 17168, 20481.
- Irritant** 899, 953, 1738, 1789, 2215, 2845, 2890, 3048, 3188, 3194, 3231, 3361, 3593, 3695, 4087, 4128, 4584, 5188, 6482, 6521, 7616, 8827, 8997, 8997, 9568, 12543, 12843, 13439, 13476, 14125, 15964, 16066, 16598, 16674, 17083, 17181, 17187, 17374, 17376, 17857, 18257, 18426, 18639, 18640, 19846, 19909, 19935, 20550, 21207, 21974, 22070, 22142, 22274.
- Irritant inactive** 9474, 9475, 16818, 16819, 16820, 21027.
- Irritant of contact-ovipositing (*Papilio xuthus*)** 19087.
- Key role in biosynthesis of threonine, isoleucine and methionine** 9620.
- Kibe (frostbite) preventive** 9458.
- Kinase inhibitor, cyclin-dependent** 11023.
- α -Glucosidase inhibitor** 5198, 2102, 2792, 5206, 6054, 6089, 6203, 7437, 7705, 8617, 9922, 10351, 10435, 10437, 11703, 13803, 16179, 16182, 16851, 18524, 18525, 20570, 20571, 21685, 21763, 21815, 21816, 21838.
- α -Glucosidase inhibitor inactive** 6052, 6053, 6094, 8616, 14989, 14990, 14991, 14992, 14993, 14994, 15812, 20569, 21893.
- β -Galactosidase inhibitor** 2792, 7437, 21838.
- β -Glucosidase inhibitor** 2792, 7437, 9616, 22581.
- β -Glucosidase inhibitor inactive** 6089, 6094, 6203, 10435, 10437, 20569, 21893.
- β -Glucuronidase inhibitor** 18668, 19539.
- β -Hexosaminidase inhibitor** 97, 98, 100, 101, 4084, 5430, 9278, 9282, 15499, 18990, 18996, 18997, 19004, 19005, 19006, 19032.
- β -Hexosaminidase inhibitor inactive** 303, 371, 496, 3308, 3399, 3831, 3832, 5427, 5428, 5431, 6853, 7944, 8594, 11477, 14777, 18797, 18983, 18995, 19001, 19002, 19003, 19007, 19009, 19010, 19011, 19016, 19542, 19618, 20566, 22332, 22332.
- β -Hexosaminidase release inhibitor** 4398, 5424, 11364, 11614, 11806, 12403, 12520, 13986, 14775, 15705, 16462, 16463, 16464, 16465, 16466, 16468, 19689, 20899.
- β -Hexosaminidase release inhibitor inactive** 5420, 5421, 5422, 5423, 5425.
- β -Hexosaminidase release inhibitor, IgE-induced** 9456, 9458, 11691, 15279, 15286, 17705.
- Lacrimation promoter** 6550, 17912.
- Lactace inhibitor (isomaltose enzyme inhibitor)** 6914.
- Lactace inhibitor (trehalase inhibitor)** 3010, 3011.
- Larvacide** 2057, 17434, 17435, 17436, 17437, 19378.
- Larvacide (*Acroepiopsis assectella* larvae)** 17662.
- Larvacide (*Eurema hecabe mandarina* larvae)** 5991.
- Larvacide (*Heliothis virescens*)** 3594.
- Larvacide (*Heliothis zea* larvae)** 7278, 19582.
- Larvacide (insect larvae)** 4739, 7621, 21208.
- Larvacide (larvae of housefly and apple moth)** 15231.
- Larvacide (mosquito larvae)** 4872, 4898, 10843.
- Larvacide (mosquito late third or early fourth-instar larvae of *Anopheles gambiae*)** 5299, 5311, 5316.
- Larvacide (order Lepidoptera larvae)** 16183.
- Larvacide (*Spodoptera exempta* larvae)** 11386.
- Larvacide (*Stegomyia calopus* larvae)** 11408, 15204, 18214, 18215, 18899.
- Larvacide (toxic to larvae of housefly)** 4140, 9196, 9197.
- Larvacide (toxic to mosquito larvae)** 9857.
- Laxative** 480, 967, 971, 981, 1892, 2004, 2538, 2816, 3254, 3306, 3307, 3598, 3599, 3692, 3695, 4319, 4477, 4531, 4543, 4716, 4717, 5093, 5191, 6632, 7617, 7938, 7939, 7940, 8128, 8231, 8276, 8277, 12950, 15068, 15069, 16516, 16756, 17249, 17251, 17571, 18841, 19749, 19750, 22397.
- laxative** 18759.
- LD** 663, 2001, 2678, 3094, 3911, 4685, 4993, 6772, 9441, 11141, 12446, 13621, 14971, 15170, 15527, 16031, 18299, 18859, 18939, 19223, 19431, 20896, 21234, 21263, 21350, 22057.
- LD₅₀** 56, 304, 554, 651, 909, 924, 1161, 1191, 1283, 1376, 1520, 1526, 1713, 1844, 1904, 1938, 1972, 2214, 2284, 2294, 2298, 2312, 2380, 2550, 2660, 2716, 2728, 2734, 2737, 2738, 2757, 2791, 2887, 2937, 3002, 3220, 3277, 3278, 3502, 3511, 3551, 3588, 3633, 3637, 3693,

- 3729, 3770, 3886, 3910, 3964, 3965, 4103, 4135, 4237, 4245, 4290, 4315, 4317, 4319, 4320, 4399, 4399, 4456, 4547, 4550, 4589, 4594, 4645, 4649, 4685, 4693, 5105, 5136, 5152, 5161, 5436, 5502, 5526, 5763, 6454, 6558, 6990, 7272, 7341, 7381, 7385, 7521, 7714, 7736, 7854, 7980, 8297, 8312, 8347, 8430, 8967, 9223, 9330, 9335, 9486, 9541, 9553, 9740, 10351, 10734, 10814, 10875, 11002, 11024, 11091, 11179, 11189, 11259, 11260, 11337, 11344, 11736, 12221, 12421, 12422, 12510, 12537, 12571, 12734, 12798, 13001, 13109, 13137, 13236, 13237, 13239, 13241, 13246, 13247, 13373, 13559, 13606, 14796, 14923, 14981, 15126, 15129, 15146, 15266, 15432, 15490, 15561, 15658, 15781, 16084, 16169, 16183, 16261, 16439, 16505, 16512, 16525, 16555, 16623, 16657, 16666, 16693, 16694, 16773, 16789, 16795, 16796, 16884, 16929, 16958, 16959, 16966, 17028, 17127, 17451, 17456, 17592, 17593, 17708, 17717, 18031, 18033, 18050, 18086, 18256, 18317, 18816, 18826, 18834, 19087, 19111, 19195, 19196, 19227, 19316, 19518, 19528, 19540, 19542, 19587, 19639, 19706, 19749, 19895, 19955, 20002, 20060, 20066, 20076, 20077, 20079, 20137, 20341, 20403, 20405, 20410, 20490, 20650, 20717, 20963, 20995, 21051, 21077, 21251, 21292, 21360, 21435, 21448, 21485, 21511, 21577, 21662, 22011, 22232, 22269, 22270, 22280, 22282, 22336, 22346, 22395, 22399, 22420, 22421, 22487, 22489, 22497, 22502, 22552, 22553, 22618, 22774, 22820, 22938.
- LD₁₀₀** 22384, 22385.
- Leads to struma** 14868.
- Lettuce cotyledon factor** 5564.
- Leucine aminopeptidase inhibitor** 7924.
- Leucocyte activation inhibitor** 12767.
- Leukocyte elastase MMP-2/9 inhibitor** 2102, 5011, 16777, 18317.
- Leukocytes infiltration effect** 118, 119, 14767.
- Leukopoietic** 617, 1186, 2887, 3094, 3551, 3695, 3844, 7385, 7386.
- Leukotriene biosynthesis inhibitor** 118, 119, 230, 6211, 7663, 12766, 12767, 14394, 14624, 14654, 14771, 14800, 22059.
- Leukotriene inhibitor** 1628.
- Lipase accelerator** 20734.
- Lipase inhibitor** 4604, 8278.
- Liver and nerve protectant** 8423.
- Liver sialidase inhibitor** 22720, 20515.
- Local anesthetic** 554, 824, 2218, 2303, 3277, 3508, 3968, 4936, 4993, 6439, 6683, 8010, 12184, 12510, 16803, 17909, 19184, 20566, 22938.
- Local anticorrosion** 4234.
- Local stimulant** 3094, 7751.
- Lousicide** 781, 17470.
- Low toxin** 195, 1618, 3431, 3907, 3912, 4036, 6679, 10887, 11067, 15337, 16050, 16080, 17505, 18624, 20016, 20254, 21362.
- LOX inhibitor** 2102, 2131, 2132, 6921, 8818, 13252, 13261, 15322, 15323, 16120, 16121, 16525, 16529, 16530, 16531, 16886, 17278, 19895, 19897, 19898, 20123, 20124, 20125, 20126, 20129.
- 5-LOX inhibitor** 444, 580, 2101, 2102, 2216, 3188, 3743, 6491, 7819, 7924, 7926, 8926, 8997, 9202, 9331, 11572, 12936, 15319, 15928, 16540, 16983, 17979, 18513, 19201, 19312, 19846, 19871, 22511, 22778.
- Δ⁵-LOX inhibitor** 7802, 12020, 14971, 15170, 16758, 18219.
- 12-LOX inhibitor inactive** 4913.
- 12(S)-LOX inhibitor inactive** 9, 3354, 4916, 15705, 20465.
- 12-LOX inhibitor** 1131, 2102, 5801, 12936, 17979, 21703.
- 12(S)-LOX inhibitor** 4281, 19983.
- 15-LOX inhibitor** 1110, 1131, 2102, 2380, 4289, 13097, 13098, 13137, 19929.
- LTB₄ inhibitor** 7924, 19312.
- LTB₄ production inhibitor** 2106, 3462, 10182, 10472, 19883, 19885.
- LTC₄ inhibitor** 3981.
- LTD₄ antagonist** 16268, 16269, 21993, 21994.
- Lubricant** 1598.
- Main active component in Cassave Aerial Parts, *Manihot esculenta* MU SHU DI SHANG BU FEN** 12854.
- Main antispasmodic component in Cow-bezoar, *Bos taurus domesticus*; *Bubalus bubalis* NIU HUANG** 5161.
- Main bitter component in beer** 9678.
- Main component of breviscarpin in Shortscape Fleabane, *Erigeron breviscapus* DENG ZHAN XI XIN to cure post-palsy paralysis** 19587.
- Main component of phenol character acid in Danshen, *Salvia miltiorrhiza* DAN SHEN.** 4631.
- Main effective component in Dahurian Rhododendron, *Rhododendron dauricum* MAN SHAN HONG to treat trachitis** 7736.
- Main effective component in Orange Daylily, *Hemerocallis fulva* XUAN CAO GEN** 9339.
- Main effective component in Tibet Lyonina, *Lyonia ovalifolia* LI MU** 13246, 13247.
- Main effective component in Tibet Wormwood, ZANG YIN CHEN** 13481.
- Main effective component in Yanhusuo, *Corydalis yanhusuo* YAN HU SUO** 4889.
- Main odiferous component in cucumber *Cucumis sativus* HUANG GUA** 15676.
- Maintains normal vision** 18834.
- Maltase inhibitor** 2792, 7437, 21362.
- MAO inhibitor** 1007, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3449, 3450, 8844, 9232, 9233, 9235, 10786, 11436, 11504, 12771, 12782, 12908, 15204, 19198, 19542, 19783.
- MAO inhibitor inactive** 3829, 3831, 3832, 10038.
- MAO-A inhibitor** 2220, 4292, 5722, 10124, 12889, 12890, 13916, 17278, 17451, 20502, 20685.
- MAO-B inhibitor** 10124, 12889, 12890, 13916, 17451.
- Matrix metalloproteinase-1 (MMP-1) inhibitor** 20421.
- May has a potential in the treatment of asthma** 18376.
- M-choline receptor agonist** 1658, 17360.
- M-cholinergic receptor blocker** 10872.
- Medulla vasomotorium inhibitor** 19195, 19196.
- Melanogenesis inhibitor** 17461.
- Membrane stabilizer** 1769.
- Metabolic intermediate.** 8817.
- Mild anesthetic** 6552.
- MIP-1α/β inhibitor** 2106.
- Mitochondrial complex I selective inhibitor; NADH oxidase** 1317, 11793, 12452, 14906, 18899, 18939, 22099.

- Mitochondrial respiratory chain complex I inhibitor** 1459, 1770, 13634, 13715, 15885, 18939, 21258.
- Mitochondrial respiratory chain inhibitor, mammalian** 241, 311, 1008.
- MLD** 1102, 3452, 4029, 8256, 11203, 13089, 21211, 21887.
- Molluscicide** 1029, 2179, 2309, 2973, 2973, 3340, 4624, 6193, 8403, 9288, 9589, 10881, 11379, 11903, 12621, 14279, 14541, 15253, 16044, 16052, 16080, 16674, 16898, 17269, 17586, 17857, 18229, 18257, 18534, 19316, 19391, 19846, 22880.
- Molluscicide** 19333, 19334, 19335, 19336, 19337, 19338, 19339, 19340, 19341.
- Mucin release stimulator** 2331, 22270.
- Multidrug resistance (MDR) reversing activity** 17731, 18170, 18171, 18172, 18173, 21026.
- Multidrug resistance protein (MRP) inhibitor** 19536.
- Muscarinic inhibitor** 22275.
- Muscle relaxant** 136, 1125, 2042, 3148, 4459, 4693, 6262, 6734, 8292, 9597, 11091, 11329, 13388, 13716, 13801, 17411, 17413, 17417, 20732, 21206, 21485, 21887, 22489.
- Muscle stimulant** 3404.
- Mutagen** 701, 1713, 2220, 3847, 6011, 6684, 7994, 8081, 9320, 9882, 11091, 11436, 11809, 12535, 14923, 14971, 15184, 15799, 15815, 18667, 18679, 19706, 19731, 19791, 19805, 19846, 20510, 22011.
- Mutagen** 1020, 17247.
- Mydriatic** 1288, 2001, 3860, 6418, 9703, 10870, 10872, 15461, 16773, 20496, 22921.
- Myotoxic phospholipase A₂ (PLA2) inhibitor** 15505.
- Na⁺,K⁺-ATP inhibitor** 10, 7156, 9233, 9234, 10285, 12178, 12180, 14093, 14543, 14995, 15038, 15705, 19802, 19803, 20222.
- NADH dehydrogenase inhibitor** 16124.
- NADH oxidase inhibitor** 241, 311, 1008, 1319, 5613, 7015, 7802, 9395, 9396, 9397, 9398, 9399, 9400, 9401, 15170, 18939.
- NADH ubiquinone reductase inhibitor** 14906, 16266, 20240.
- N-choline receptor agonist** 1658.
- Negative chronotropic action** 19955.
- Negative inotropic action** 21206.
- Nematocide** 2783, 3508, 4872, 4898, 6487, 10680, 14683, 17708, 19846, 21018, 21328, 21483.
- NEP inhibitor** 6757, 8095, 10887, 11642, 16011, 18358, 18371, 18411, 21392.
- Nerve growth factor (NGF) enhancer** 9436, 22271.
- Neurite outgrowth activity** 3859, 6538, 6723, 7212, 9994, 21099, 21148, 21783, 22702, 22708, 22710.
- Neurite outgrowth enhancer** 1035, 1477, 1486, 8212, 8259, 8423, 8425, 12934, 15822, 15839, 17500, 21168, 22318.
- Neurite outgrowth enhancer inactive** 7522, 21734.
- Neuromuscular blocker** 1125, 1366, 2959, 3148, 3878, 3963, 4864, 7324, 7326, 7327, 7331, 7340, 7341, 11337, 14569, 18655, 19198, 21448, 21485.
- Neuromuscular toxicity** 905, 4926, 4927, 9077, 9078, 14024.
- Neuroprotective** 1695, 2376, 2439, 2470, 2709, 2710, 2711, 2712, 2887, 2960, 3695, 4135, 4185, 4186, 4398, 5045, 7052, 7053, 7768, 8089, 8404, 8405, 9020, 9237, 9238, 9855, 9968, 10684, 10765, 11447, 12046, 12749, 13290, 13885, 13886, 13888, 13889, 13890, 13891, 13894, 16587, 18354, 18355, 18362, 19777.
- Neuroprotective inactive** 2466, 2467, 2469.
- Neuroprotective, induced by L-glutamate** 13895, 14070.
- Neurotoxin** 833, 1057, 1058, 4452, 15490, 19223.
- Neurotransmitter** 1048, 6559, 15708, 19760.
- Neurotrophic** 2376.
- Neurotrophic** 7517, 20651.
- Neurotrophic activity** 4811, 6538, 6723, 9975, 11868.
- Neurotrophic bioassay inactive** 4523, 4896, 9954, 13789, 20716.
- NF-κB inhibitor** 2004, 3307, 3693, 13882.
- NFAT transcription inhibitor** 2245, 2778, 3308, 4184, 5213, 5981, 8098, 8910, 8922, 9106, 9107, 9108, 9109, 9382, 10637, 13100, 14530, 15954, 18411, 19377, 19473, 19474, 19497.
- NFAT transcription inhibitor inactive** 6918, 7951, 20237.
- Nicotine antagonist** 9238, 12083, 19386, 20496.
- Nicotinic acetylcholine receptor competitive inhibitor** 14024.
- Nitrogen-containing base occurring in DNA and RNA** 9070, 14802.
- NO production inhibitor inactive** 658, 1284, 2041, 2491, 4396, 4895, 5577, 6201, 9657, 9818, 11613, 11789, 12016, 12253, 13115, 15805, 15809, 16204, 16231, 17844, 20660, 22978, 22981, 22982, 22983.
- NO production inhibitor, accompanied by a decrease in iNOS protein level, did not affect COX-2 protein expression level** 16717.
- NO production inhibitor, cultured rat aortic smooth muscle cells treated with LPS/IFN-γ** 11203, 16713.
- NO production inhibitor, inhibits iNOS gene expression activated by LPS and recombinant mus IFN-γ, furthermore, inhibits histamine release from rat peritoneal mast cells** 13433, 13434.
- NO production inhibitor, LPS-activated macrophage-like J774.1 cells** 4759, 4760, 4761, 5137, 6205, 6281, 6286, 6287, 9819, 10606, 10618, 10621, 11146, 11147, 13850, 15443, 15444, 15795, 16221, 16222, 16223, 16224, 16225, 16226, 16227, 16228, 16229, 16232, 16233, 16234, 16235, 16236, 16237, 16238, 16239, 16240, 16242, 16243, 16244, 19630, 19966, 19967, 19968, 19969, 19970, 20258, 20259, 20260, 20261, 21927.
- NO production inhibitor, LPS-activated macrophages RAW264.7** 131, 132, 155, 292, 2359, 2360, 2361, 2362, 5155, 5285 5292.
- NO production inhibitor, LPS-activated macrophages RAW264.7, treated simultaneously by α-viniferin and LPS** 22504.
- NO production inhibitor, LPS-activated mus peritoneal macrophages** 889, 1213, 2427, 2428, 2462, 4378, 4379, 4389, 4393, 4394, 4395, 4397, 4398, 4400, 4416, 5457, 6875, 7116, 7514, 8014, 8015, 8048, 8049, 8347, 8348, 8525, 10147, 11001, 11359, 11364, 11412, 11462, 11477, 11614, 11637, 11806, 12403, 12520, 13986, 14775, 15378, 15379, 15705, 16456, 16459, 16462, 16463, 16464, 16465, 16466, 17875, 18282, 18983, 18990, 18995, 18996, 19001, 19002, 19003, 19004, 19005, 19006, 19007, 19009, 19010, 19011, 19016, 19017, 19618, 19689, 20566, 20899, 22124, 22195, 22332, 22775, 22977.
- NO production inhibitor, LPS-activated mus peritoneal macrophages, reduces NO production and iNOS gene expression, by inhibiting NFκB** 19895.
- NO production inhibitor, LPS-induced macrophages RAW264.7, through suppression of NF-κB by inhibiting transactivation activity of RelA subunit** 19407.

- NO production inhibitor, LPS-induced mus macrophages RAW264.7** 1573, 8679, 10820, 10834, 19405, 19406, 22270, 22984, 22986.
- NO production inhibitor, LPS-induced, concentration-dependent manner** 3388, 5987, 9765, 12044, 19312.
- NO production inhibitor, macrophage-like cell line RAW264.7 activated by LPS/IFN- γ** 592, 3517, 8037, 8038, 8039, 8086, 8088, 8093, 13293, 13295, 22383, 23030.
- NO production inhibitor, macrophages activated by LPS and recombinant mouse IFN- γ** 11017, 13435, 13436, 13437, 18317, 19891, 19892.
- NO production inhibitor, mus macrophages RAW264.7, activated by LPS/IFN- γ** 2359, 2360, 2361, 2362, 5155, 5633, 5669, 7982, 7983, 7984, 7985, 18317.
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Skeletal muscle relaxant 824, 3218, 7523, 9631, 20732, 22091.
Smell of cedar 19303.
Smooth muscle, bladder smooth muscle relaxant 16189, 16190, 16191, 20472, 20473, 20474, 20475.
Smooth muscle, bronchial smooth muscle stimulant 1658, 2303, 9568, 16773, 17055, 17056.
Smooth muscle, bronchodilator 2284, 6815, 14395, 20254, 20995, 21312, 16773, 18024, 21578.
Smooth muscle, inhibits calcium activation and release (blood vessel smooth muscle) 19540.
Smooth muscle, inhibits ileac tension and contractility 17472.
Smooth muscle, inhibits ileal contraction 893.
Smooth muscle, inhibits intestinal and uterine movement 8289.
Smooth muscle, inhibits intestinal movement 871, 2734, 3907, 11091, 13776, 15882, 19101, 19620, 19955.
Smooth muscle, inhibits intestine and other smooth muscle movement 3452.
Smooth muscle, inhibits K⁺-induced contraction of colon bands 21493.
Smooth muscle, inhibits mesenteric venous contraction 19846.
Smooth muscle, inhibits smooth muscle 2284.
Smooth muscle, inhibits tracheal smooth muscle contraction induced by TXA₂ 16268, 16269.
Smooth muscle, paralyzes small intestinal smooth muscle 2380.
Smooth muscle, paralyzes uterus (high dose) 6552.
Smooth muscle, promotes intestinal and uterine motion 17505.
Smooth muscle, promotes intestinal motion 1658, 3551, 3615, 15263, 15884.
Smooth muscle, promotes small intestinal motion 13223, 16929.
Smooth muscle, reduces duodenum tension 1742.
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Smooth muscle, smooth muscle contractor (tracheal) 843.
Smooth muscle, smooth muscle relaxant 126, 5035, 5858, 6040, 6402, 7063, 7802, 9541, 16623, 17983, 18317, 19469, 19471, 19473, 20670, 21362, 21589.
Smooth muscle, smooth muscle relaxant (biliary tract) 1287.
Smooth muscle, smooth muscle relaxant (blood vessel) 7521.
Smooth muscle, smooth muscle relaxant (blood vessel, intestine, isolated uterus, gpg trachea, gpg ileum, but causes constriction of rat isolated bladder) 7521.
Smooth muscle, smooth muscle relaxant (colonic) 18826.
Smooth muscle, smooth muscle relaxant (duodenum) 1191, 1287, 11002.
Smooth muscle, smooth muscle relaxant (ileal) 7521, 8846, 11002, 12083, 13836, 16098, 16101, 16102, 16152, 18454, 18455, 19539, 22023.
Smooth muscle, smooth muscle relaxant (ileal) 13137.
Smooth muscle, smooth muscle relaxant (intestinal) 760, 5136, 5286, 7521, 9232, 11580, 15708, 16623, 19706, 21024, 21522.
Smooth muscle, smooth muscle relaxant (small intestine) 4685, 5003, 11002.
Smooth muscle, smooth muscle relaxant (stomach) 1287.
Smooth muscle, smooth muscle relaxant (tracheal) 7521, 8846, 13137, 15370, 17456, 21493.
Smooth muscle, smooth muscle relaxant (uterus) 7521, 11002, 15797, 18190.
Smooth muscle, smooth muscle stimulant 17360, 20060.
Smooth muscle, smooth muscle stimulant (bladder) 2303.
Smooth muscle, smooth muscle stimulant (ileal) 338.
Smooth muscle, smooth muscle stimulant (intestinal) 2303, 3002, 3318, 11111, 11867, 17592.
Smooth muscle, smooth muscle stimulant (peripheral blood vessel) 7252.
Smooth muscle, smooth muscle stimulant (stomach) 2303.
Smooth muscle, smooth muscle stimulant relaxant (small intestine) 643, 13237.
Smooth muscle, stimulates striated muscles and smooth muscles 22153.
Smooth muscle, uterine relaxant 2797, 2803, 5003, 8423, 8426, 8428, 8429, 8430, 9235, 12825, 18655.
Smooth muscle, uterine stimulant 117, 642, 643, 763, 1333, 1599, 2219, 2303, 2380, 2725, 2726, 2734, 3002, 3114, 3318, 3452, 3551, 3934, 4058, 4103, 4115, 4191, 4192, 4353, 4912, 5108, 5435, 5436, 5445, 6420, 6552, 6757, 7232, 7240, 7252, 7327, 8127, 8256, 8289, 9234, 9646, 11091, 11202, 12646, 13089, 13223, 13237, 13241, 16664, 16773, 16774, 18652, 19081, 19461, 20133, 20254, 22502, 22503, 22929.
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Somatostatin antagonist 18093.
SP-A gene expression promoter 2106.
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Spasmogenic 13246, 21292, 21350.
Special spicery of tea 6923.
Spermaticidal 924.
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- 12621, 16044, 16169, 17768, 18229, 19333, 19334, 19335, 19336, 19337, 19338, 19339, 19340, 19341.
- Steroid hormone** 17901.
- Sthenic** 136, 6262, 12916, 13801, 17411, 17413, 17417.
- Stimulant** 2550, 2566, 13796, 13798, 14057, 14125, 15485, 15486.
- Stimulates center nerves and cardiac muscles** 21312.
- Stimulates cerebra** 12580.
- Stimulates fibrinolysis** 12420.
- Stimulates function of adrenal cortex** 5152.
- Stimulates horses** 18425.
- Stimulates nerve** 3615.
- Stimulates pons, causes spasm and stiffness in limbs** 9232.
- Stimulates synthesis of NGF** 7261, 7262, 7263, 7264.
- Stomachic** 12229, 14982, 18299.
- Strengthens CNS inhibition induced by chlorpromazine** 16451.
- Stress-induced plant metabolite** 22782.
- Striated muscle relaxant** 3747.
- Striated muscle stimulant** 9232.
- Strongest active component in Chinese Angelica, DANG GUI, *Angelica sinensis*** 12825.
- Succinic oxidase inhibitor** 2779, 5613, 7802, 13137, 15170.
- Sucrase inhibitor** 21362.
- Sugar hydrolase inhibitor** 16931.
- Sulfonamide antagonist** 1042.
- Supercharging for cerebral circulation** 4594.
- Supertoxic agent** 37, 554, 631, 1021, 1134, 1849, 2372, 3063, 3075, 3979, 4377, 5093, 6683, 8776, 9067, 9077, 10959, 11020, 12563, 13476, 14821, 17278, 17999, 22070, 22098.
- Suppressive effects on ovalbumin (OVA)-induced airway hyperresponsiveness** 18376.
- Survival effect on TrkA fibroblasts** 12141.
- Sweetener** 31, 1596, 4483, 6632, 16930, 17663, 20791, 20919, 20920, 20921, 20922, 20923, 20924, 20925, 20926, 20927, 20928, 20929, 22607.
- Sympatholytic** 3755, 3757, 3758.
- Synergist of antineoplastic bleomycin A5** 16183.
- Synergist of buhach** 2298.
- Synergist of pesticides** 4310, 12012, 13594, 17202.
- Synergist of pyrethrin** 1833, 6193.
- TACE inhibitor inactive** 9561.
- Tanning agent** 678, 6857, 6922, 8126, 9079, 12128, 13136, 13402, 17867, 18858.
- T-Cell Proliferation inhibitor** 9419, 11001.
- Teratogen** 1134, 3979, 3988, 4522, 4594, 9320, 11866, 14868, 15204, 20060, 20066, 20488.
- Testosterone 5 α -reductase inhibitor** 4039, 4040, 4041, 4042, 7521, 10960, 12490, 12491, 12493, 12496, 16358.
- Testosterone 5 α -reductase inhibitor** 4610, 6275, 6276, 10394, 12559.
- Tetanicum** 3293.
- TGF- β 1 antagonist** 16050, 22270.
- Thrombin inhibitor** 18917.
- Thrombin inhibitor inactive** 5916, 5917, 6244, 6089, 6094, 6203, 10437, 10435, 10750, 20569, 21893.
- Thrombolytic** 4055.
- Thymidine phosphorylase (TP) inhibitor** 12613, 12614.
- Thymidine phosphorylase inhibitor** 2270, 19192, 20528, 20547, 20548, 20549.
- Thyroid peroxidase inhibitor** 16196, 22581.
- Tissue factor inhibitor** 8621.
- Tissue factor inhibitor inactive** 16050, 22270.
- Tissue proteinase B inhibitor** 1030, 6314, 17588.
- TNF inhibitor** 22586, 22587.
- TNF- α formation enhancer** 11977, 22077.
- TNF- α inhibitor** 5430.
- TNF- α production inhibitor** 1071, 1790, 1791, 1802, 2004, 2106, 2469, 2983, 3307, 3368, 3674, 4565, 4565, 4746, 7195, 7196, 7197, 7278, 8278, 8423, 8423, 8424, 8424, 8520, 8520, 9276, 9337, 9456, 11521, 11522, 12122, 12122, 12523, 13137, 13137, 14097, 14976, 14977, 15002, 15635, 16532, 16675, 16717, 17240, 17409, 17460, 17875, 18317, 18317, 18376, 18673, 19308, 19427, 20992, 22686, 22687, 22688, 22727, 22728, 22729, 22730, 22731.
- TNF- α release inhibitor** 4055, 4716, 5424, 6923, 8311, 8894.
- TNF- α release inhibitor inactive** 5420, 5421, 5422, 5423, 5425.
- TNF- α secretion inhibitor** 79, 82, 83, 18317, 20486.
- Tonic** 1017, 11882, 19473.
- Topical protectant** 10, 15333.
- Topoisomerase I inhibitor** 10691, 15631.
- Topoisomerase II inhibitor** 2304, 15478, 15479, 15480, 15481, 15869, 17144, 17896, 18202, 18624, 21054.
- Topoisomerase inhibitor inactive** 19349, 19350.
- Topoisomerases I and II inhibitor** 22232.
- Total cAMP- and cGMP-phosphodiesterase (PDE)inhibitor** 18376.
- Toxic** 17732.
- Toxic (highly)** 18426.
- Toxic inactive** 14024.
- Toxin** 10, 126, 140, 340, 551, 567, 646, 655, 782, 983, 1008, 1011, 1068, 1125, 1242, 1250, 1283, 1352, 1353, 1364, 1366, 1461, 1842, 1887, 1895, 2039, 2309, 2399, 2676, 2838, 2937, 2959, 3148, 3152, 3190, 3201, 3207, 3218, 3404, 3498, 3634, 3909, 3911, 3988, 4078, 4457, 4741, 4745, 4771, 4857, 4988, 5004, 5283, 5440, 5523, 5858, 6040, 6370, 6532, 6533, 6684, 6686, 6734, 7063, 7236, 7252, 8091, 8257, 8292, 8461, 8756, 8784, 8841, 8906, 8971, 9114, 9183, 9288, 9339, 9467, 9596, 9877, 10238, 10818, 10898, 11012, 11130, 11189, 11690, 11794, 11867, 12421, 12422, 12854, 12896, 12937, 12951, 13241, 13255, 13711, 14134, 14250, 14358, 14885, 15123, 15429, 15452, 15461, 15633, 15872, 15924, 16285, 16674, 17040, 17089, 17420, 17863, 17903, 17904, 17963, 18000, 18017, 18023, 18785, 18814, 18816, 18840, 18849, 18940, 19041, 19057, 19121, 19374, 19379, 19461, 19469, 19471, 19676, 19698, 19706, 19712, 19889, 20056, 20060, 20061, 20069, 20133, 20341, 20403, 20500, 20963, 21325, 21326, 21402, 21644, 22146, 22151, 22153, 22276, 22280, 22360, 22401, 22404, 22465, 22608, 23000.
- Transforms into vitamin D₂ under ultraviolet ray** 7250.
- Treatment of abdominalgia, cholera in early stage, colitis and dysentery** 2013.
- Treatment of acne and other pigment diseases** 2056.

- Treatment of acute arrhythmia 17761.
- Treatment of acute heart failure with edema of lungs and cardiogenic shock 20403.
- Treatment of acute myocardial ischemia 16525.
- Treatment of AIDS 17958.
- Treatment of allergic purpura 6302.
- Treatment of allergy and empyema in nose 13390.
- Treatment of amebic dysentery 8513, 12347.
- Treatment of amoebic dysentery 19819.
- Treatment of angina pectoris 8401.
- Treatment of angina pectoris, asthma, and cardiac edema 21312.
- Treatment of angiocardioopathy 8633, 8634.
- Treatment of AP 1275.
- Treatment of arrhythmia 7703, 18552.
- Treatment of arterial blockage in retina 18180.
- Treatment of arteriosclerosis and hyperlipidemia 11083.
- Treatment of arteriosclerosis, cerebral wounds and dysemia 20575.
- Treatment of arteriosclerosis, hyperlipidemia, thrombus and coronary heart disease 12767.
- Treatment of asthma and allergic disease 7926.
- Treatment of asthma and bronchitis 17472, 19540.
- Treatment of asthmatic bronchitis 14395, 22552.
- Treatment of atherosclerosis 1928.
- Treatment of bacillary dysentery 983.
- Treatment of bacillary dysentery 13606.
- Treatment of bacillary dysentery and inflammation of upper-respiratory tract 1159.
- Treatment of bacillary dysentery, duodenal ulcer, enteritis, gastritis and trachitis 3203.
- Treatment of bilious headache (vasomotor headache) 16675.
- Treatment of bilious headache and obstetric process 16808.
- Treatment of blood capillary ailments 19087.
- Treatment of bronchitis, scrofula, pulmonary tuberculosis and basal tuberculosis 13264.
- Treatment of cerebral thrombosis and atherosclerosis 21055.
- Treatment of chronic arrhythmia 5067.
- Treatment of chronic bronchitis 8312, 9315, 13610, 13611.
- Treatment of chronic bronchitis 18317.
- Treatment of cirrhosis with ascites 19819.
- Treatment of coronary heart disease 4889, 16525.
- Treatment of dermatitis 21434.
- Treatment of dermatosis and tinea 19187.
- Treatment of diabetic cataract 491.
- Treatment of diarrhea 22190.
- Treatment of diseases in lung and bronchus 7482.
- Treatment of dysentery 17862.
- Treatment of eczema 1599.
- Treatment of fever, diarrhea and diseases of the urinary system 822.
- Treatment of fig wart 17592.
- Treatment of gastric disorders 22564.
- Treatment of gastric hyperacidity 20341.
- Treatment of gastric ulcer 19388.
- Treatment of gastritis, ulcer, upper-respiratory tract infection, urethral infection, bronchitis, pneumonia, enteritis, bacillary dysentery and sepsis 3202.
- Treatment of glaucoma 17360, 21059.
- Treatment of glaucoma and myoparalysis 7381.
- Treatment of gout 10913.
- Treatment of headache and diseases of nasal cavity 13392.
- Treatment of headache, neuralgia, itching, respiratory tract inflammation, atrophic rhinitis and celostomia (alalia) 13774.
- Treatment of heart failure and auricular arrhythmia 15038.
- Treatment of heart failure and breathing inhibition 18637.
- Treatment of hepatic coma and constipation 12440.
- Treatment of hepatic edema 21310.
- Treatment of hepatic insufficiency 2538.
- Treatment of hepatitis 13481, 19819, 19895, 19897, 22975.
- Treatment of Hodgkin's disease, chorion cancer, lymphatic sarcoma 22487.
- Treatment of hypertension and angina pectoris 18180.
- Treatment of hypertension and rheumatalgia 21887.
- Treatment of hypertension and tachycardia caused by smoking 4873.
- Treatment of hypertension, bronchial asthma, ulcer of digestive tract, and chronic enteritis 21511.
- Treatment of hypertensive 18826.
- Treatment of hypoprothrombinemia disease 22562.
- Treatment of impotence 12291, 12292.
- Treatment of infant bacillary dysentery 7942.
- Treatment of infection from hepatitis virus 18599.
- Treatment of infection of respiratory tract, urethra, digestive tract and wounds 18270.
- Treatment of infectious diseases of respiratory tract and intestinal tract 4876.
- Treatment of leprosy 828, 829, 830, 831.
- Treatment of liver coma 1673.
- Treatment of maladjustment of blood capillary permeability 13502.
- Treatment of megaloblastic anemia due to lack of folic acid 7852.
- Treatment of menopathy and female climacteric syndrome 7386.
- Treatment of mental disorder 1039.
- Treatment of muscle rigidity and Parkinson's disease 21372.
- Treatment of myasthenia gravis 15396.
- Treatment of myocardial infarction 11851.
- Treatment of myocardial ischemia and myocardial infarction 20686.
- Treatment of neurasthenic syndrome 1609.
- Treatment of neurosis 1608.
- Treatment of neurosis and gastrointestinal diseases 7517.
- Treatment of newborn asphyxia, toxicosis from opium, barbital, carbon monoxide, and respiratory failure induced by pneumonia and diphtheria 12939.
- Treatment of pediatric gastrointestinal functional disorder 17886.
- Treatment of pellagrosis, stomatitis and glossitis 15526.
- Treatment of pile 19070.
- Treatment of post-palsy paralysis 19587.
- Treatment of post-partum uterus bleeding 7240.
- Treatment of primary hypertension 20324.
- Treatment of psoriasis, rheumatic arthritis and leukemia 22011.

- Treatment of renal insufficiency** 12018.
- Treatment of restless extrapyramidal dyskinesia** 20324.
- Treatment of rheumatism and neuralgia** 19542, 19545.
- Treatment of rheumatic arthritis** 22487.
- Treatment of rheumatic arthritis** 1928.
- Treatment of rheumatic arthritis and asthma** 5135.
- Treatment of rheumatic heart disease and coronary heart disease**
4543.
- Treatment of rheumatism and paralysis** 3361.
- Treatment of schistosomiasis** 9339.
- Treatment of seasickness and carsickness** 10870.
- Treatment of sexual immaturity and learning disability** 3753.
- Treatment of silicosis** 21206.
- Treatment of skin disease** 1293, 1332, 13223, 17347, 17486, 17491.
- Treatment of skin disease, hepatitis, and inflammation** 7997.
- Treatment of some kidney disorders and relieve intracranial pressure in brain injuries** 13504.
- Treatment of sterilitas virilis** 13212.
- Treatment of stroke** 17978.
- Treatment of suppurated wound, burn, and skin infection** 22282.
- Treatment of terror, anxiety and melancholy** 8524.
- Treatment of tinea and sarcoptidosis** 13246, 13247.
- Treatment of trachitis** 21508.
- Treatment of trachitis and dysentery** 22151, 22153.
- Treatment of trachitis, antitussive** 12020.
- Treatment of tympanitis, onychia lateralis, viral herpes, burn infection, suppurative amygdalitis and enteritis** 20444.
- Treatment of ulcer** 11295.
- Treatment of ulcer of digestive tract** 17546.
- Treatment of urethral infection** 834.
- Treatment of vascular headache and bilious headache** 20324.
- Treatment of ventricular tachycardia** 20133.
- Trehalase inhibitor** 2792, 7437.
- Tremorigenic agent** 20016.
- Trypsase inhibitor** 20009.
- Trypsase inhibitor inactive** 9561.
- TXA₂ formation inhibitor** 3794.
- TXB₂ formation inhibitor** 3981, 12766, 19259.
- Tyrosinase inhibitor** 577, 618, 1091, 1618, 2380, 3567, 3829, 3831, 4249, 4251, 4254, 4260, 4262, 4263, 4264, 6700, 6870, 8673, 10054, 10626, 10807, 11656, 12252, 12280, 12341, 12341, 12343, 12344, 12355, 12358, 12361, 12365, 12366, 12367, 12510, 12847, 13097, 14452, 14511, 14802, 14868, 15206, 15526, 15769, 16897, 18064, 18065, 18066, 18067, 18068, 18069, 18169, 19983, 20086, 21905, 21967, 22237.
- Tyrosinase inhibitor inactive** 508, 571, 572, 573, 574, 575, 5008, 5783, 20501.
- Tyrosine kinase inhibitor** 2102, 2106, 3811, 6091, 10638, 17169, 20009, 22718, 22720.
- UDP-MurNac synthesis inhibitor** 1635, 1636, 1637.
- Uncoupling action** 16024.
- Up-regulation of vascular endothelial growth factor (VEGF) and its receptors VEGF-R1, VEGF-R2 gene** 19202.
- Urease inhibitor** 9740, 15216, 20528.
- Uricosuric** 2004.
- Used to research of γ -radiation** 16929.
- Used to resist aridity in agriculture** 13084.
- Vanilloid receptor activator** 19081.
- Vasoconstriction inhibitor** 893, 894, 896, 4545, 5750, 8913, 8914.
- Vasoconstriction inhibitor, in artery** 15704.
- Vasoconstrictor** 514, 2726, 4381, 5445, 6303, 6815, 7232, 7234, 7243, 9335, 15253, 15708, 15875, 17028, 17370, 17953, 18024, 19819, 20100, 22144, 22237.
- Vasodilator** 1048, 1275, 1658, 2300, 2303, 2734, 3588, 4543, 4544, 4873, 5707, 6677, 6691, 8010, 8290, 8423, 8424, 8426, 8427, 8430, 8808, 8989, 9568, 10870, 11002, 11680, 11834, 11834, 12574, 13237, 13260, 13261, 13262, 14949, 14950, 15002, 15003, 15321, 15528, 15704, 15705, 16263, 16439, 16867, 17283, 18651, 19081, 19540, 20275, 20510, 20575, 21055, 21239, 21877, 22489, 22552.
- Vasodilator inactive** 1271, 1272, 8507, 14732.
- Vasodilator, cerebral** 8989, 21055.
- Vasodilator, coronary** 784, 1275, 2298, 2796, 3633, 4108, 4630, 4889, 6507, 7334, 7945, 11648, 12221, 12747, 13836, 15129, 16080, 16525, 16759, 17036, 17278, 17968, 18165, 18180, 18317, 19227, 19540, 21310, 21312, 21511.
- Vasodilator, coronary and cerebral** 783.
- Vasodilator, coronary, cerebral and peripheral** 5067.
- Vasodilator, peripheral** 4543, 4544, 11002, 15528, 21055.
- Vasorelaxant** 1030, 2300, 2303, 3795, 5135, 8251, 13573, 13574, 15278, 19761.
- Vasorelaxant, inhibits inward flow of calcium, increase cGMP** 5135.
- Vesicant** 1179, 22146.
- VHR DS-PTPase inhibitor** 10035, 10036.
- VRI receptor antagonist** 843.
- Vulnerary** 21511.
- Xanthine oxidase inhibitor** 3490, 4055, 5212, 6757, 6758, 8095, 13428, 13429, 14099, 15451, 15457, 17985, 17986, 17991, 18317, 19347, 19348.
- Xanthinoxidase inhibitor** 1497, 2102, 3602, 6095, 6096, 6769, 8844, 11266, 12766, 12767, 12771, 12987, 13145, 15715, 17895, 18323, 18361, 18368, 20515, 21054, 21634, 22718.

Compound Molecular Formula Index

The Molecular Formula Index lists the molecular formulae of all 23033 isolated compounds from TCM plants and their congeners given in the encyclopedia in Hill convention order. Under a bold formula, main names of all related compounds lists in alphabetical order and the compound code number follows the name immediately.

CHN	C₂H₆N₂O₂	Dithiocyclopentene, 6524
Hydrocyanic acid, 9717	Methylazoxymethanol, 14151	C₃H₅NOS
CH₂O	C₂H₆O₂	2-Oxazolidinethione, 16286
Formaldehyde, 7881	Glycol, 8826	C₃H₆O
CH₂O₂	C₂H₆O₂S	2-Hydroxy-propylene, 10663
Formic acid, 7882	Dimethyl sulfone, 6408	Propionaldehyde, 17930
CH₄N₂O	C₂H₆S	C₃H₆OS
Urea, 22246	Dimethyl sulfide, 6407	Propanethial <i>S</i> -oxide, 17912
CH₄S	C₂H₆S₂	C₃H₆O₂
Methyl mercaptan, 14581	Dimethyl disulfide, 6342	Methylacetate, 14111
CH₅N	C₂H₆S₃	Propionic acid, 17931
Methylamine, 14133	Dimethyl trisulfide, 6417	C₃H₆O₃
CH₅N₃	C₂H₆S₄	Dihydroxyacetone, 5748
Guanidine, 9067	Dimethyl tetrasulfide, 6414	Lactic acid, 12436
C₂H₂O₂	C₂H₇N	C₃H₆O₄
Glyoxal, 8849	Ethylamine, 7420	<i>D</i> -Glyceric acid, 8806
C₂H₂O₄	C₂H₇NO	C₃H₆S₄
Oxalic acid, 16285	Ethanolamine, 7390	5-Methyl-1,2,3,4-tetrathiane, 14755
C₂H₃NS	C₂H₇NO₃	C₃H₇NO₂
Methyl isothiocyanate, 14539	Taurine, 20732	<i>L</i> -Alanine, 832
C₂H₄O	C₃H₄O₂	<i>β</i> -Alanine, 833
Ethyl aldehyde, 7419	Acrylic acid, 578	Sarcosine, 19360
C₂H₄O₃	Methylglyoxal, 14475	C₃H₇NO₃
Glycolic acid, 8827	C₃H₄O₃	(<i>S</i>)-Serine, 19759
C₂H₅NO	Pyruvic acid, 18281	C₃H₈N₂O₂
Acetamide, 109	C₃H₄O₄	<i>α,β</i> -Diaminopropionic acid, 5352
C₂H₅NO₂	Malonic acid, 13439	C₃H₈O
Glycine, 8817	C₃H₄S₂	<i>n</i> -Propanol, 17916

- C₃H₈O₃**
Glycerol, 8808
- C₃H₈S**
Propane-1-thiol, 17913
Propane-2-thiol, 17914
- C₃H₉N**
Propylamine, 17935
Trimethylamine, 21939
- C₃H₉NO**
Trimethylamine oxide, 21940
- C₄H₄N₂O₂**
Uracil, 22237
- C₄H₄O₄**
Fumaric acid, 7996
- C₄H₄O₅**
Oxalacetic acid, 16284
- C₄H₅ClO₂**
Methyl 2-chloropropenoate, 14225
- C₄H₅NO₂**
Pyrrolidine-2,5-dione, 18277
- C₄H₅NS**
Allyl isothiocyanate, 949
Allylthiocyanate, 956
- C₄H₅O₄N₃**
(2,5-Dioxo-4-imidazolidinyl)carbamic acid, 6472
- C₄H₆N₂O₂**
L-β-Cyanoalanine, 4452
5-Methyl hydantoin, 14494
- C₄H₆N₄O₃**
Allantoin, 917
- C₄H₆O₂**
Crotonic acid, 4271
- C₄H₆O₂S**
Thioacetic anhydride, 21332
- C₄H₆O₄**
Succinic acid, 20444
Threono-1,4-lactone, 21343
- C₄H₆O₅**
Malic acid, 13419
- C₄H₆O₆**
Tartaric acid, 20715
- C₄H₆S**
Divinyl sulfide, 6531
- C₄H₆S₂**
3-Methyl-1,2-dithia-3-cyclopentene, 14327
4-Methyl-1,2-dithio-3-cyclopentene, 14328
5-Methyl-1,2-dithio-3-cyclopentene, 14329
- C₄H₇NOS**
trans-3-Methylthioacrylamide, 14758
- C₄H₇NO₂**
Azetidine-2-carboxylic acid, 2057
- C₄H₇NO₄**
N-Acetyl-*N*-hydroxy-2-carbamic acid methyl ester, 413
L-Aspartic acid, 1886
- C₄H₇NO₅**
erythro-β-Hydroxy-*L*-aspartic acid, 9804
- C₄H₇NS**
Isopropyl isothiocyanate, 11625
- C₄H₇N₃O**
Creatinine, 4223
1,5-Dihydro-1-methyl-2-amino-imidazol-4-one, 5674
- C₄H₈N₂O₃**
L-Asparagine, 1866
- C₄H₈N₄O₄**
Allantoic acid, 916
- C₄H₈O**
Allylcarbinol, 943
n-Butylaldehyde, 2787
Isobutanal, 11267
- C₄H₈O₂**
Acetoin, 111
Butyric acid, 2808
Ethyl acetate, 7418
Isobutyric acid, 11290
- C₄H₈O₂S**
trans-3-Methylsulfinyl-2-propenol, 14729
- C₄H₈O₃S**
trans-3-Methylsulfonyl-2-propenol, 14731
- C₄H₈O₄**
(3*S*),4-Dihydroxybutyric acid, 5783
- C₄H₈O₅**
(*D*)-Threonic acid, 21340
(*L*)-Threonic acid, 21341
- C₄H₈OS₂**
Methyl allyl thiosulfinate, 14128
Methyl-1-propenyl thiosulfinate, 14690
- C₄H₈S**
Methyl allyl sulfide, 14127
- C₄H₈S₂**
Methyl allyl disulfide, 14126
- C₄H₈S₃**
Allyl methyl trisulfide, 952
4-Methyl-1,2,3-trithiane, 14793
- C₄H₈S₄**
Allyl methyl tetrasulfide, 951
- C₄H₈S₅**
Allyl methyl pentasulfide, 950
- C₄H₉N**
Pyrrolidine, 18275
- C₄H₉NO₂**
α-Aminobutyric acid, 1046
β-Aminobutyric acid, 1047
γ-Aminobutyric acid, 1048
Aminoisobutyric acid, 1055
- C₄H₉NO₂S**
L-Homocysteine, 9601
S-Methyl cysteine, 14277
- C₄H₉NO₂S₂**
S-Methyl mercapto-*L*-cysteine, 14582
- C₄H₉NO₂Se**
Se-Methyl-*L*-selenocysteine, 19691
- C₄H₉NO₃**
L-Homoserine, 9620
Threonine, 21342
- C₄H₉NO₃S**
S-Methyl-*L*-cysteine sulfoxide, 14278
- C₄H₉NO₄**
α-Hydroxymethylserine, 10521
- C₄H₉N₃O₂**
Creatine, 4221
- C₄H₉N₃O₃**
L-Albizziine, 862
- C₄H₉O₄**
Methyl (*S*)-glycerate, 14473
- C₄H₁₀N₂O₂**
2,3-Diaminobutyric acid, 5350
L-α,γ-Diaminobutyric acid, 5351
3-Methylamino-*L*-alanine, 14134
- C₄H₁₀N₂O₃**
Canaline, 3059
- C₄H₁₀N₃O₅P**
Creatine phosphoric acid, 4222
- C₄H₁₀O**
Isobutyl alcohol, 11268
- C₄H₁₀O₃**
1-Deoxy-*L*-erythritol, 5171
- C₄H₁₀O₄**
Erythritol, 7334
(*D*)-Threitol, 21339
- C₄H₁₀S**
Diethyl sulfide, 5503
- C₄H₁₀S₂**
Methyl propyl disulfide, 14691
- C₄H₁₀S₃**
Methyl propyl trisulfide, 14694
- C₄H₁₂N₂**
Putrescine, 18230
- C₅H₄Cl₂N₂**
2,4-Dichloro-6-aminopyridine, 5418
- C₅H₄N₂O₄**
Orotic acid, 16214
- C₅H₄N₄**
Purine, 18209
- C₅H₄N₄O**
Hypoxanthine, 10913
- C₅H₄N₄O₂**
Xanthine, 22756

- C₅H₄O₂**
Anemonol, 1179
2-Furaldehyde, 8011
- C₅H₄O₃**
2-Furancarboxylic acid, 8012
Pyromeconic acid, 18271
- C₅H₅NO**
Pyrrole-2-aldehyde, 18274
- C₅H₅NO₂**
2-Minaline, 14870
- C₅H₅NO₃**
Codopiloic acid, 3887
- C₅H₅N₅**
Adenine, 617
- C₅H₅N₅O**
Guanine (1,7-Dihydro-form), 9070
Isoguanine, 11448
- C₅H₆KN₃O₅**
Potassium quisqualate, 17746
- C₅H₆N₂O₂**
1-Imidazolylacetic acid, 10997
5-Methyluracil, 14802
- C₅H₆N₂O₄**
Ibotenic acid, 10938
- C₅H₆N₄O₃**
Uric acid, 22251
- C₅H₆O₂**
Furfuryl alcohol, 8025
Tulipalin, 22102
- C₅H₆O₃**
β-Hydroxy-*α*-methylene-*γ*-butyllactone, 10488
- C₅H₆O₄**
Mesaconic acid, 13793
- C₅H₆S₃**
4-Vinyl-1,2,3-trithia-4-cyclohexene, 22518
- C₅H₇NOS**
1-Thiocyanato-2-hydroxy-3-butene, 21334
1-5-Vinyl-2-thiooxazolidone, 22517
- C₅H₇NO₂**
1-Cyano-2-hydroxymethylprop-1-ene-3-ol, 4453
1-Cyano-2-hydroxymethylprop-2-ene-1-ol, 4454
Jatropham, 11842
- C₅H₇NO₃**
Pyroglutamic acid, 18266
- C₅H₇NS**
3-Butenyl isothiocyanate, 2782
- C₅H₇N₃O₅**
Quisqualic acid, 18452
- C₅H₈N₂O**
2-4'-Imidazolethanol, 10998
- C₅H₈N₂O₂**
Squamolone, 20243
- C₅H₈N₂O₄**
- Tricholomic acid, 21562
- C₅H₈N₂O₅**
L-*α*-Amino-*β*-oxalylaminopropionic acid, 1058
(*S*)-Dencichine, 5105
- C₅H₈O**
3-Methyl-3-butenone, 14177
Tiglaldehyde, 21370
- C₅H₈O₂**
Angelic acid, 1188
Tiglic acid, 21371
- C₅H₈O₃**
Levulinic acid, 12735
- C₅H₈O₄**
Capilliplactone, 3123
2-Deoxy-*D*-ribono-1,4-lactone, 5209
2,3-Dihydroxy-2-methyl-butylolactone, 6027
Glutaric acid, 8784
- C₅H₉NO**
4-Pentenamide, 16887
- C₅H₉NOS₂**
3-Methylsulfinyl propyl isothiocyanate, 14730
- C₅H₉NO₂**
γ-Amino-*α*-methylene butyric acid, 1056
Proline, 17905
Pterolactam, 18112
Pyrrolidine carboxylic acid, 18276
- C₅H₉NO₃**
cis-4-Hydroxyproline, 10659
3-Hydroxyproline, 10660
trans-4-Hydroxyproline, 10661
- C₅H₉NO₃S**
1,4-Thiazane-3-carboxylic acid *S*-oxide, 21330
- C₅H₉NO₅**
3-Amino-2-hydroxy pentanedioic acid, 1052
γ-Hydroxy glutaminic acid, 10151
- C₅H₉NS**
Butyl isothiocyanate, 2798
sec-Butyl isothiocyanate, 2799
- C₅H₉NS₂**
3-Methylthiopropyl isothiocyanate, 14762
- C₅H₉N₃**
Histamine, 9568
- C₅H₁₀**
2-Methyl-2-butene, 14173
- C₅H₁₀N₂O₂**
Cucurbitine, 4329
- C₅H₁₀N₄O₄**
3-Acetyl-5-carbomethoxy-2*H*-3,4,5,6-tetrahydro-1-oxa-2,3,5,6-tetrazine, 345
- C₅H₁₀O**
Isovaleraldehyde, 11752
3-Methyl butanone, 14163
2-Methylbut-3-en-2-ol, 14176
- Pentanal, 16876
1-Penten-3-ol, 16889
- C₅H₁₀O₂**
Ethylpropionate, 7475
Isovaleric acid, 11754
2-Methyl butyric acid, 14186
Pentanic acid, 16884
- C₅H₁₀O₃**
(*R*)-Artabotriol, 1775
Nilic acid, 15597
- C₅H₁₀O₅**
Apiose, 1521
Ribose, 18837
Xylose, 22843
- C₅H₁₁N**
Piperidine, 17450
- C₅H₁₁NO**
Pentaldehyde oxime, 16862
- C₅H₁₁NO₂**
Betaine, 2318
N,N-Dimethyl glycine methyl ester, 6353
Norvaline, 15814
2-*N*-Propyl-1,3-dioxolane, 17938
Valine, 22324
- C₅H₁₁NO₂S**
Methionine, 13823
- C₅H₁₁NO₃**
L-*α*-Amino-*δ*-hydroxyvaleric acid, 1054
1,4-Dideoxy-1,4-imino-arabinitol, 5475
Mesotrihydroxypiperidine, 13803
α-Oxyvaline, 16480
β-Oxyvaline, 16481
3*β*,4*β*,5*α*-Trihydroxypiperidine, 21838
- C₅H₁₁NO₃S**
Methionine sulfoxide, 13824
- C₅H₁₁NO₅S**
D-Rhodoic acid, 18798
- C₅H₁₁NS₂**
Nereistoxin, 15490
- C₅H₁₁N₃O₂**
γ-Guanidinobutyric acid, 9069
- C₅H₁₁O₂S⁺**
Dimethyl-*β*-propriotheatin, 6400
- C₅H₁₂N₂O₂**
Ornithine, 16208
- C₅H₁₂N₄O₃**
Canavanine, 3063
- C₅H₁₂O**
Isoamyl alcohol, 11218
2-Methyl-1-butanol, 14162
Pentanol, 16885
- C₅H₁₂O₂**
1,5-Pentadiol, 16835

- C₅H₁₂O₄**
 1-Deoxy-*L*-arabinitol, 5154
 1-Deoxy-*D*-lyxitol, 5192
 1-Deoxy-*D*-ribitol, 5207
 2-Deoxy-*D*-ribitol, 5208
 1-Deoxy-*D*-xylitol, 5220
 2-*C*-Methyl-*D*-erythritol, 14419
- C₅H₁₂O₅**
 Adonitol, 645
D-Arabitol, 1596
 (3*R*)-2-Hydroxymethylbutane-1,2,3,4-tetrol, 10471
 Ribitol, 18832
- C₅H₁₂S**
 Ethylisopropyl sulfide, 7454
- C₅H₁₃N**
 Isoamylamine, 11219
- C₅H₁₃NO**
 Neurine, 15516
- C₅H₁₃N₃O**
 4-Guanidino-1-butanol, 9068
- C₅H₁₄NO⁺**
 Choline, 3589
- C₅H₁₄N₂**
 Cadaverine, 2845
- C₅H₁₄N₄**
 Agmatine, 749
- C₅H₁₄O₂₂P₆**
 3,4-*trans*-(*erythro*)-3,5-Bis(tripolyphosphate)-4-pentanolide, 2494
- C₆H₃N₃O₇**
 Picric acid, 17328
- C₆H₄O₂**
 Quinone, 18426
- C₆H₅NO₂**
 Nicotinic acid, 15528
- C₆H₆N₂O**
 Nicotinamide, 15526
- C₆H₆N₂O₂**
 Urocanic acid, 22260
- C₆H₅N₅O**
 2-Amino-6-hydroxypteridine, 1053
- C₆H₅N₅O₂**
 Isoxanthopterin, 11784
 Xanthopterin, 22772
- C₆H₆O**
 Phenol, 17089
- C₆H₆O₂**
 Catechol, 3318
 Hydroquinone, 9740
 α -Methylfurfural, 14450
 Resorcinol, 18641
- C₆H₆O₃**
 5-Hydroxymethyl furaldehyde, 10493
 4-Hydroxymethyl-2-furaldehyde, 10494
 Maltol, 13452
 5-Methoxyfuraldehyde, 13931
 Phloroglucinol, 17174
 Pyrogallol, 18265
- C₆H₆O₄**
 5-(Hydroxymethyl)-furan-2-carboxylic acid, 10495
 Kojic acid, 12252
- C₆H₆O₆**
cis-Aconitic acid, 552
trans-Aconitic acid, 553
 Dehydroascorbic acid, 4879
- C₆H₇NO**
m-Aminophenol, 1059
o-Aminophenol, 1060
p-Aminophenol, 1061
 3-Hydroxy-2-methylpyridine, 10520
 3-Methoxypyridine, 14081
 Pyridin-3-yl-methanol, 18259
 Pyrrolyl- α -methyl ketone, 18279
- C₆H₇NO₂**
 5-Hydroxy-2-pyridinemethanol, 10669
- C₆H₇NO₃**
 Gentianaine, 8293
- C₆H₇NO₃S**
 Sulfanilic acid, 20467
- C₆H₈N₂O₂**
 Imidazolylpropionic acid, 10999
- C₆H₈O₂**
 Parasorbic acid, 16657
- C₆H₈O₃**
 5*R*,6*S*-Osmundalactone, 16255
- C₆H₈O₆**
 Ascorbic acid, 1845
- C₆H₈O₇**
 Citric acid, 3766
 Isocitric acid, 11332
 Isocitric acid b, 11333
 Isocitric acid c, 11334
 Isocitric acid d, 11335
- C₆H₈OS₂**
 3-Allyldisulfanyl-propenal, 947
 2-Vinyl-1,3-dithia-4-cyclohexene-3-oxide, 22512
 3-Vinyl-1,2-dithia-4-cyclohexene-2-oxide, 22514
- C₆H₈S**
 6-Methyl-1-thio-2,4-cyclohexadiene, 14759
- C₆H₈S₂**
 2-Vinyl-1,3-dithia-4-cyclohexene, 22511
 3-Vinyl-1,2-dithia-4-cyclohexene, 22513
 3-Vinyl-1,2-dithia-5-cyclohexene, 22515
- C₆H₈S₂O**
 3-Vinyl-3,4-dihydro-1,2-dithiin-1-oxide, 22509
- C₆H₉NO**
trans-3-Ethylidene-2-pyrrolidinone, 7451
- C₆H₉NOS₂**
 Raphanin, 18547
- C₆H₉NO₂**
L-Baikiain, 2108
 Guvacine, 9092
 α -(Methylenecyclopropyl) glycine, 14358
 4-Methylene-*DL*-proline, 14390
- C₆H₉NO₃**
 Methyl pyroglutamate, 14709
- C₆H₉NO₄**
 γ -Methylene glutamic acid, 14385
- C₆H₉NS**
 4-Pentenyl isothiocyanate, 16888
- C₆H₉N₃O₂**
 α -Amino- β -(pyrazolyl-*N*)propionic acid, 1063
L-Histidine, 9569
- C₆H₁₀**
 Methylene cyclopentane, 14357
- C₆H₁₀MgO₆**
 Magnesium lactate, 13368
- C₆H₁₀N₂O₂**
 Cyclo-(Ala-Ala), 4462
- C₆H₁₀N₂O₅**
L- α -Amino- γ -oxalylaminobutyric acid, 1057
L-Glutamic acid- γ -methylamide, 8769
- C₆H₁₀O**
 (*E*)-2-Hexenal, 9519
 Isomesityl oxide, 11535
 Mesityl oxide, 13800
 2-Methylcyclopentanone, 14275
 2-Methyl-2-pentenal, 14662
- C₆H₁₀OS₂**
 Allicin, 920
 1-Propenylallylthiosulfinate, 17919
- C₆H₁₀O₂**
trans-2-Hexenoic acid, 9521
- C₆H₁₀O₃**
 (+)-(3*R*)-3-Hydroxy-4,4-dimethyl-4-butylolactone, 10048
- C₆H₁₀O₄**
 Leucanthemitol, 12713
 Methyl β , γ -dihydroxy- α -methylene butylate, 14313
 Methyl glutarate, 14471
 Methyl 5-hydroxy-4-oxopentanoate, 14519
- C₆H₁₀O₅**
 3,6-Anhydrogalactose, 1268
- C₆H₁₀O₇**
D-Galacturonic acid, 8078
 Glucuronic acid, 8761

- D*-Mannuronic acid, 13509
- C₆H₁₀O₈**
Mucic acid, 15007
- C₆H₁₀S**
Allyl monosulfide, 953
- C₆H₁₀S₂**
Allyl disulfide, 948
- C₆H₁₀S₃**
Allitridin, 924
- C₆H₁₀S₄**
Diallyl tetrasulfide, 5349
- C₆H₁₁NOS**
Cleomin, 3828
- C₆H₁₁NOS₂**
4-Methylsulfinyl butyl isothiocyanate, 14728
Sulforathane, 20478
- C₆H₁₁NO₂**
6 ζ -Methoxypiperidin-2-one, 14071
Pipelic acid, 17425
- C₆H₁₁NO₂S**
S-Allyl-*L*-cystein, 944
Entadamide A, 6809
S-(1-Propenyl)-*L*-cystein, 17921
- C₆H₁₁NO₂S₂**
Erysoline, 7323
- C₆H₁₁NO₃**
cis-4-Hydroxymethylproline, 10518
trans-4-Hydroxymethylproline, 10519
Pegaline, 16767
- C₆H₁₁NO₃S**
Alliin, 921
Entadamide C, 6810
- C₆H₁₁NO₄**
 α -Aminoadipic acid, 1040
- C₆H₁₁NO₄S**
S-(2-Carboxyethyl)-*L*-cysteine, 3171
- C₆H₁₁N₃O₃**
 α -Keto- δ -guanidino-valeric acid, 12200
- C₆H₁₂**
1-Hexene, 9520
- C₆H₁₂N₂O**
N-3-methyl-2-butenyl urea, 14184
- C₆H₁₂N₂O₃**
Aminozone, 1064
n-Butyl allophanate, 2788
- C₆H₁₂O**
Hexanal, 9512
 β -Hexenol, 9522
trans-2-Hexenol, 9523
 γ -Hexenol, 9524
Methyl isobutyl ketone, 14529
- C₆H₁₂O₂**
Caproic acid, 3139
- Ethyl butyrate, 7423
- 2-Methanol tetrahydropyran, 13822
- 3-Methyl-1,2-cyclopentanediol, 14274
- C₆H₁₂O₄**
Digitoxose, 5527
- C₆H₁₂O₅**
Methyl pentose I, 14665
Methyl pentose II, 14666
1-*O*-Methyl-*D*-xyloside, 14817
2-*O*-Methyl-*D*-xyloside, 14818
Polygalitol, 17636
D-Quercitol, 18410
Rhamnose, 18739
Viburnitol, 22461
- C₆H₁₂O₆**
Cocositol, 3880
Fructose, 7971
Inositol, 11083
Inositol b, 11084
Inositol c, 11085
Mannose, 13507
Mannose-b, 13508
Sorbitol, 20104
- C₆H₁₂O₇**
Gluconic acid, 8600
- C₆H₁₂S**
3-[(1-Methylethyl)thio]-1-propene, 14436
- C₆H₁₂S₂**
Allyl propyl disulfide, 954
Propenyl propyl disulfide, 17927
- C₆H₁₃N**
D- α -Pipicoline, 17426
- C₆H₁₃NO₂**
Alloisoleucine, 935
- C₆H₁₃NO₂S**
Homomethionin, 9614
S-Propyl-*L*-cystein, 17937
- C₆H₁₃NO₃**
3-Epifagomine, 6914
Fagomine, 7705
- C₆H₁₃NO₄**
1-Deoxynojirimycin, 5198
2,5-Dihydroxymethyl-3,4-dihydroxypyrrolidine,
6028
- C₆H₁₃NO₅**
Galactosamine, 8076
Glucosamine, 8753
- C₆H₁₃N₃**
Galegine, 8091
- C₆H₁₃N₃O₃**
Citrulline, 3774
- C₆H₁₄NO₂S⁺**
Vitamin U, 22564
- C₆H₁₄N₂O₃**
 δ -Hydroxylysine, 10357
- C₆H₁₄N₄O₂**
L-Arginine, 1673
- C₆H₁₄N₄O₃**
 γ -Hydroxyarginine, 9798
- C₆H₁₄O**
Hexanol, 9514
2-Hexanol, 9515
3-Hexanol, 9516
- C₆H₁₄O₂**
Acetal, 108
- C₆H₁₄O₅**
1-Deoxy-*D*-glucitol, 5177
L-Fucitol, 7975
D-Quinovitol, 18443
- C₆H₁₄O₆**
Dulcitol, 6632
D-Mannitol, 13504
- C₆H₁₄S₂**
Dipropyl disulfide, 6501
Propyl isopropyl disulfide, 17939
- C₆H₁₅N**
Hexyl amine-1, 9530
- C₆H₁₈O₂₄P₆**
Phytic acid, 17256
- C₇H₄OS**
3-(2-Thienyl) propargyl aldehyde, 21331
- C₇H₄O₆**
Chelidonic acid, 3501
- C₇H₅NO₂**
2-Benzoxazolinone, 2229
- C₇H₅NO₄**
Pyridine-2,6-dicarboxylic acid, 18258
- C₇H₅N₅**
Benzothiazole, 2228
Phenyl isothiocyanate, 17125
- C₇H₅N₅O₃**
Ranachrome 5, 18530
- C₇H₅N₅O₄**
Isoxanthopterin-6-carboxylic acid, 11785
- C₇H₅NaO₃**
Sodium *p*-hydroxybenzoate, 20033
- C₇H₅NaO₄**
Sodium protocatechuate, 20035
- C₇H₆N₄O₃**
6-Hydroxymethylumazin, 10500
- C₇H₆O**
Benzaldehyde, 2222
- C₇H₆O₂**
Benzoic acid, 2224
p-Hydroxybenzaldehyde, 9815
m-Hydroxybenzaldehyde, 9816

- Salicylaldehyde, 19185
Tropolone, 22052
- C₇H₆O₃**
m-Hydroxybenzoic acid, 9817
p-Hydroxybenzoic acid, 9818
Protocatechuic aldehyde, 17968
Salicylic acid, 19187
Sesamol, 19779
- C₇H₆O₄**
2,6-Dihydroxybenzoic acid, 5762
3,4-Dihydroxybenzoic acid, 5763
3,5-Dihydroxybenzoic acid, 5764
Gentisic acid, 8307
o-Pyrocatechuic acid, 18263
β-Resorcylic acid, 18642
- C₇H₆O₅**
Gallic acid, 8095
- C₇H₆O₆**
Osbeckic acid, 16250
- C₇H₇NO₂**
p-Aminobenzoic acid, 1042
Trigonelline, 21662
- C₇H₇N₅O₂**
Ranachrome 3, 18529
- C₇H₇O₂**
Pyrolin, 18270
- C₇H₈**
Methylbenzene, 14155
- C₇H₈N₂O**
N'-Methyl nicotineamide, 14618
- C₇H₈N₄O₂**
Theobromine, 21310
Theophylline, 21312
- C₇H₈O**
Anisole, 1290
Benzyl alcohol, 2275
m-Cresol, 4232
o-Cresol, 4233
p-Cresol, 4234
- C₇H₈O₂**
Guaiacol, 9021
2-Hydroxybenzyl alcohol, 9832
p-Hydroxybenzyl alcohol, 9833
Orcinol, 16169
Trichodenone A, 21558
- C₇H₈O₃**
5-Methoxymethyl furfural, 14023
- C₇H₈O₄**
Doederleinic acid, 6547
Opuntiol, 16159
- C₇H₈O₅**
Dehydroshikimic acid, 4968
- C₇H₈O₇**
- Daucic acid, 4676
- C₇H₉NO**
4-Hydroxybenzylamine, 9834
Salicylamine, 19186
- C₇H₉NO₂**
Myrothenone B, 15207
- C₇H₁₀N₅O⁺**
1,3-Dimethylisoguaninium, 6364
- C₇H₁₀O**
(*E,E*)-2,4-Heptadienal, 9392
- C₇H₁₀O₃**
Theobroxide, 21311
- C₇H₁₀O₅**
Shikimic acid, 19805
- C₇H₁₁NO₂**
Arecidine, 1654
Guvacoline, 9093
L-Hypoglycin, 10898
- C₇H₁₁NO₃**
Ethyl pyroglutamate, 7476
- C₇H₁₁N₃O₂**
3-Methylhistidine, 14490
- C₇H₁₁N₅O₂**
Stizolamine, 20385
- C₇H₁₂N₂O₅**
γ-*L*-Glutamyl-glycine, 8775
- C₇H₁₂O**
α-Heptenal, 9413
3-Heptenal, 9414
3-Methylcyclohexanone, 14271
4-Methylcyclohexanone, 14272
- C₇H₁₂OS₃**
Z-4,9-Diene-2,3,7-trithiadeca-7-oxide, 5486
- C₇H₁₂O₂**
Ethyl-2-methylbut-2-enoate, 7463
γ-Heptalactone, 9402
2-Heptenic acid, 9415
- C₇H₁₂O₃**
trans-4-Hydroxycyclohexane-1-carboxylic acid, 9953
- C₇H₁₂O₄**
Dimelic acid, 6194
- C₇H₁₂O₆**
Quinic acid, 18421
- C₇H₁₃NO**
Nor-*ψ*-tropine, 15812
- C₇H₁₃NO₂**
2 α ,3 β -Dihydroxynortropine, 6052
2 β ,3 β -Dihydroxynortropine, 6053
3 β ,6-*exo*-Dihydroxynortropine, 6054
Erycibelline, 7299
Stachydrine, 20254
- C₇H₁₃NO₃**
- Betonidine, 2325
2 α ,3 β ,4 α -Trihydroxynortropine, 21815
2 α ,3 β ,6-*exo*-Trihydroxynortropine, 21816
- C₇H₁₃NO₄**
Calystegine B₂, 3010
- C₇H₁₃NO₅**
Calystegine C₁, 3011
1,2,3,4,7-Pentahydroxy-6-nitrobicyclo[3.3.0]-octane, 16856
- C₇H₁₄**
Methylcyclohexane, 14270
- C₇H₁₄N₂O₃**
Theanine, 21281
- C₇H₁₄N₂O₄S₂**
Cystathionine, 4591
L-Djenkolic acid, 6533
- C₇H₁₄N₂O₄Se**
L-Selenocystathionine, 19676
- C₇H₁₄O**
Heptanal, 9407
β-Heptenol, 9416
γ-Heptenol, 9417
Methyl-*n*-pentyl ketone, 14668
- C₇H₁₄O₂**
Amyl acetate, 1103
Enanthic acid, 6795
- C₇H₁₄O₄**
Cymarose, 4549
Oleandrose, 16034
Sarmentose, 19375
- C₇H₁₄O₆**
L(+)-Bornesitol, 2556
Lucidol, 13047
Methyl- α -*D*-fructofuranoside, 14448
Methyl *D*-galactoside, 14453
β-Methyl-*D*-glucoside, 14469
D-1-*O*-Methyl-*muco*-inositol, 14527
Ononitol, 16118
Pinitol, 17391
L-Quebrachitol, 18304
Sequoyitol, 19757
- C₇H₁₄O₇**
Coriose, 4057
L-Galactoheptulose, 8050
D-Mannoheptulose, 13505
Sedoheptulose, 19650
- C₇H₁₄S₃**
1-(1-Methyl thiopropyl)-1-propenyl disulfide, 14763
- C₇H₁₅NO₄**
N-Methyl-1-deoxynojirimycin, 14290
- C₇H₁₆**
Heptane, 9408

- 3-Methylhexane, 14488
- C₇H₁₆NO₂⁺**
Acetylcholine, 351
- C₇H₁₆N₄O₂**
L-Homoarginine, 9596
- C₇H₁₆N₄O₃**
(+)- γ -Hydroxy-*L*-homoarginine, 10165
- C₇H₁₆O**
2-Heptanol, 9409
- C₇H₁₆O₅**
Xylitol, 22814
- C₇H₁₆O₇**
Volemitol, 22607
- C₇H₁₉N₃**
Spermidine, 20146
- C₈H₄O₃**
Phthalic anhydride, 17204
- C₈H₅NO₂**
Isatin, 11190
- C₈H₆N₂O**
4-Quinazolone, 18420
- C₈H₆O**
Coumarone, 4143
- C₈H₆O₃**
Z^{2,4}-Dihydropthalic anhydride, 5693
p-Formyl benzoic acid, 7895
Piperonal, 17470
- C₈H₆O₅**
5-Hydroxyisophthalic acid, 10252
- C₈H₇N**
Indole, 11025
- C₈H₇NO**
4-Hydroxybenzyl cyanide, 9835
Mandelonitrile, 13478
- C₈H₇NO₂**
Gentianadine, 8292
- C₈H₇NO₃**
Ascocochine, 1846
Coixol, 3907
- C₈H₇NO₄**
2,4-Dihydroxy-1,4-benzoxazin-3-one, 5765
- C₈H₇NS**
Benzyl isothiocyanate, 2294
Benzyl thiocyanate, 2298
- C₈H₇NaO₄**
Sodium vanillate, 20039
- C₈H₈**
Styrene, 20430
- C₈H₈N₂O₂**
Ricinine, 18840
- C₈H₈O**
Acetophenone, 115
Phenylacetaldehyde, 17090
- C₈H₈O₂**
p-Anisaldehyde, 1282
Benzyl formate, 2285
p-Hydroxyacetophenone, 9749
m-Methoxybenzaldehyde, 13848
4-Methyl salicylaldehyde, 14717
Phenylacetic acid, 17091
- C₈H₈O₃**
Anisic acid, 1284
2',4'-Dihydroxyacetophenone, 5749
3',4'-Dihydroxyacetophenone, 5750
6-Hydroxy-7,7 α -dihydro-2(6*H*)-benzofuranone, 9997
2-Hydroxy-5-methoxy-benzyldehyde, 10384
2-Hydroxyphenyl acetic acid, 10607
p-Hydroxyphenyl acetic acid, 10608
Isovanillin, 11767
4-Methoxy-1,2-benzodioxole, 13849
4-Methoxysalicylaldehyde, 14088
4-Methyl-2,6-dihydroxy-benzaldehyde, 14297
Methylparaben, 14652
Methyl salicylate, 14718
Vanillin, 22336
- C₈H₈O₄**
2,6-Dimethoxybenzoquinone, 6204
Homogentisic acid, 9608
3-Hydroxy-4-methoxy benzoic acid, 10381
2-Hydroxy-4-methoxybenzoic acid, 10382
Methyl- β -resorcyate, 14712
Orsellinic acid, 16218
Protocatechuic acid methyl ester, 17967
Vanillic acid, 22332
- C₈H₈O₅**
5-(Acetoxymethyl)-furan-2-carboxylic acid, 258
3,5-Dihydroxy-4-methoxybenzoic acid, 5963
Leiocarpic acid, 12607
3-Methoxygallate, 13937
Methyl gallate, 14454
- C₈H₉NO₂**
Methylantranilate, 14142
- C₈H₉NO₃**
m-Hydroxyphenylglycine, 10624
2-(4-Hydroxyphenyl)-1-nitroethane, 10629
Myrothenone A, 15206
- C₈H₁₀**
1,2-Dimethylbenzene, 6318
- C₈H₁₀N₂O**
N-Methylanthranylamide, 14143
3-Methyl-6,7,8-trihydropyrrolo[1,2-*a*]pyrimidin-2-one, 14774
- C₈H₁₀N₂O₄**
Mimosine, 14868
- C₈H₁₀N₄O₂**
Caffeine, 2892
- C₈H₁₀N₄O₃**
Vachellin, 22307
- C₈H₁₀O**
Benzyl ethyl alcohol, 2284
2,3-Dicresol, 5442
m-Ethylphenol, 7472
p-Ethylphenol, 7473
Methyl benzyl ether, 14156
Methyl phenyl carbinol, 14671
- C₈H₁₀OS**
Benzyl hydroxymethyl sulphide, 2293
- C₈H₁₀O₂**
4-Ethylresorcinol, 7477
4-Hydroxybenzyl methyl ether, 9849
Tyrosol, 22170
Veratrole, 22389
m-Xylohydroquinone, 22815
- C₈H₁₀O₂S**
Foetithiophene A, 7849
- C₈H₁₀O₃**
Filicinic acid, 7797
1'-(4-Hydroxyphenyl)ethane-1',2'-diol, 10604
Hydroxytyrosol, 10819
Rengyolone, 18615
Vanillyl alcohol, 22346
- C₈H₁₀O₄**
Dictafofin B, 5444
4-Ethoxy-6-hydroxymethyl- α -pyrone, 7405
Herierin III, 9438
Herierin IV, 9439
Penicillic acid, 16805
- C₈H₁₀O₅**
Argutone, 1678
- C₈H₁₁N**
Phenethylamine, 17083
- C₈H₁₁NO**
Tyramine, 22158
- C₈H₁₁NO₂**
Dopamine, 6559
- C₈H₁₁NO₃**
Noradrenaline, 15708
Pyridoxine, 18261
- C₈H₁₂N₂**
Chuanxiongine, 3633
- C₈H₁₂N₂O₂**
Cyclo-(Ala-Pro), 4463
- C₈H₁₂O**
Bicyclo[2,2,2]oct-5-en-2-ol, 2356
(*E,E*)-2,4-Octadienal, 15962
3,5-Octadiene-2-one, 15963
- C₈H₁₂O₃**
Euscapholide, 7659

- C₈H₁₂O₇**
2-Hydroxy-1,2,3-propanetricarboxylic acid-1,3-dimethylester, 10662
- C₈H₁₃NO**
Tropinone, 22051
- C₈H₁₃NO₂**
Arecolidine, 1657
Arecoline, 1658
Heliotridine, 9318
Scopine, 19541
- C₈H₁₃NO₃**
Desmodilactone, 5266
- C₈H₁₄N₂O₂**
Cyclo-(Ala-Val), 4464
- C₈H₁₄N₂O₄**
Coprine, 4030
- C₈H₁₄N₂O₅**
 γ -Glutamyl-alanine, 8770
- C₈H₁₄N₂O₆**
 γ -Glutamyl-serine, 8781
- C₈H₁₄O**
(*E*)-2-Octenal, 15980
- C₈H₁₄O₂**
 γ -Octalactone, 15971
2-Octenic acid, 15982
- C₈H₁₄O₂S₂**
 α -Lipoic acid, 12900
- C₈H₁₄O₃**
Rengyoxide, 18619
- C₈H₁₄O₃S₂**
 β -Lipoic acid, 12901
- C₈H₁₄O₄**
2-(1,4-Dihydroxycyclohexanyl)-acetic acid, 5800
3,7-Dihydroxy-5-octanolide, 6056
Suberic acid, 20439
- C₈H₁₄S₄**
Foetisulfide D, 7848
- C₈H₁₅N**
 γ -Coniceine, 3979
- C₈H₁₅NO**
Hygrine, 10835
Pelletierine, 16789
Pseudotropine, 18072
Tropine, 22050
- C₈H₁₅NO₂**
Valerine, 22321
- C₈H₁₅NO₃**
Swainsonine, 20500
- C₈H₁₅NO₆**
N-Acetyl-*D*-glucosamine, 402
- C₈H₁₅NS**
7-Methylthioheptanenitrile, 14760
- C₈H₁₆**
1,4-Dimethyl-*cis*-cyclohexane, 6334
1,6-Dimethyl-*cis*-cyclohexane, 6335
Ethylcyclohexane, 7431
- 1-Octene**, 15981
1,1,3-Trimethylcyclopentane, 21952
- C₈H₁₆ClNO**
N-4'-Chlorobutylbutyramide, 3543
- C₈H₁₆N₂O₂**
N,N,N',N'-Tetramethylsuccinamide, 21203
- C₈H₁₆N₂O₄**
Octopinic acid, 15986
- C₈H₁₆N₂O₄S₂**
Homocystine, 9602
- C₈H₁₆N₂O₇**
Cycasin, 4456
- C₈H₁₆O**
Isomatsutakeol, 11532
Matsutake alcohol, 13608
Octanal, 15973
3-Octanone, 15979
1-Octen-3-ol, 15983
7-Octen-4-ol, 15984
- C₈H₁₆OS₃**
Foetisulfide A, 7845
- C₈H₁₆O₂**
Caprylic acid, 3140
- C₈H₁₆O₂S₃**
Foetisulfide B, 7846
Foetisulfide C, 7847
- C₈H₁₆O₃**
Rengyol, 18614
- C₈H₁₆O₄**
erythro-2-Hydroxy-2-(1-hydroxyethyl)-4-methylpentanoic acid, 10181
- C₈H₁₆O₆**
3,6-Anhydro-*L*-galactose dimethyl acetal, 1269
Dambonitol, 4615
Ethyl- α -*D*-fructoside, 7438
1-Ethyl- α -*D*-galactoside, 7439
1-Ethyl- β -*D*-galactoside, 7440
Ethyl β -*D*-glucopyranoside, 7443
- C₈H₁₆O₇**
Ethane-1,2-diol 1-*O*- β -*D*-glucopyranoside, 7389
- C₈H₁₇N**
Coniine, 3988
- C₈H₁₇NO₃**
 α -1-*C*-Ethyl-fagomine, 7437
- C₈H₁₇O**
Pseudoconhydrine, 18023
- C₈H₁₈**
2-Methylheptane, 14482
n-Octane, 15974
- C₈H₁₈O**
Octanol, 15977
3-Octanol, 15978
- C₈H₁₈O₄**
(2*S**,7*S**)-(2)-Octane-1,2,7,8-tetrol, 15976
2,2,2-Triethoxyl-ethanol, 21628
- C₈H₁₈O₅S**
Musclide A₁, 15127
- C₈H₂₀N₂**
Tetramethyl diaminobutane, 21195
- C₈H₂₁N₃**
sym-Homospermidine, 9621
- C₉H₆N₂S**
Brassilexin, 2597
- C₉H₆O₂**
Coumarin, 4140
- C₉H₆O₃**
3-Hydroxycoumarin, 9942
4-Hydroxycoumarin, 9943
5-Hydroxycoumarin, 9944
6-Hydroxycoumarin, 9945
Umbelliferone, 22195
- C₉H₆O₄**
Aesculetin, 663
Daphnetin, 4645
5,7-Dihydroxychromone, 5789
5,7-Dihydroxycoumarin, 5796
- C₉H₇NO**
3-Aldehydoindole, 874
- C₉H₇NO₂**
Indole-3-carboxylic acid, 11029
- C₉H₇NS**
5-Phenyl thiazole, 17136
- C₉H₇N₃O₃**
Methyl calvatate, 14207
- C₉H₈O**
Cinnamaldehyde, 3693
1-Indanone, 11013
- C₉H₈O₂**
Cinnamic acid, 3695
2'-Hydroxycinnamaldehyde, 9908
- C₉H₈O₃**
trans-Caffeic aldehyde, 2891
m-Coumaric acid, 4133
o-Coumaric acid, 4134
p-Coumaric acid, 4135
Coumarinic acid, 4141
Methyl-*p*-formylbenzoate, 14447
Phenyl pyruvic acid, 17134
- C₉H₈O₄**
Caffeic acid, 2887
m-Hydroxyphenylpyruvic acid, 10640
o-Hydroxyphenylpyruvic acid, 10641
p-Hydroxyphenylpyruvic acid, 10642

- C₉H₈O₅**
 2,3-Dihydro-3,6,7-trihydroxy-1-*H*-benzo[b]-pyran-4-one, 5728
 Haematommic acid, 9188
 Meconic acid, 13632
 4,5,6-Trihydroxy-7-methylphthalide, 21808
- C₉H₉I₂NO₃**
 Diiodotyrosine, 6187
- C₉H₉N**
 6-Methyl indole, 14525
 Phenyl propionitrile, 17131
 Scatole, 19459
 Xylylic acid nitrile, 22855
- C₉H₉NO**
trans-Cinnamide, 3694
- C₉H₉NO₂**
 Gentianidine, 8296
- C₉H₉NO₃**
 Hippuric acid, 9548
- C₉H₉NO₄**
 Peristrophamide, 16964
- C₉H₉NO₅**
 Betalamic acid, 2319
- C₉H₉NS**
 β -Phenylethyl isothiocyanate, 17117
- C₉H₉NaO₃**
 (2*R*)-Sodium 3-phenyllactate, 20034
- C₉H₉NaO₅**
 Sodium syringate, 20031
- C₉H₉O₄⁻**
 (2*S*)-(*O*-Hydroxyphenyl)lactate, 10626
- C₉H₉O₈S**
 3,4-Dihydroxy-5-methoxybenzoic acid methyl ester-4-sulfate, 5964
- C₉H₁₀N₂O₃**
 Armillarisin B, 1743
- C₉H₁₀O**
 Chavicol, 3488
 Cinnamic alcohol, 3696
p-Methoxystyrene, 14096
o-Methylacetophenone, 14112
 Phenyl-2-propanone, 17129
 2-(2-Propenyl) phenol, 17923
- C₉H₁₀O₂**
 Allylpyrocatechol, 955
 Benzyl acetate, 2273
 3,4-Dimethylbenzoic acid, 6320
 3,5-Dimethyl-4-hydroxy-benzaldehyde, 6359
 Ethyl benzoate, 7421
 Hydrocinnamic acid, 9708
p-Hydroxybenzyl acetone, 9831
 4-Methoxy-acetophenone, 13827
 Methyl phenylacetate, 14669
- Phenyl ethyl formate, 17115
- C₉H₁₀O₃**
 Acetovanillone, 117
 2,4-Dimethoxybenzylaldehyde, 6209
 Isopaeonol, 11580
 Melilotic acid, 13678
 4-Methoxyphenylacetic acid, 14054
 Methyl *p*-anisate, 14141
 Methylvanillin, 14805
 Paeonol, 16532
 Phloretinic acid, 17169
 Tropic acid, 22049
- C₉H₁₀O₄**
 2,4'-Dihydroxy-3'-methoxyacetophenone, 5960
 3-(3,4-Dihydroxyphenyl)propanoic acid, 6091
 2,6-Dimethoxy benzoic acid, 6200
 3,4-Dimethoxybenzoic acid, 6201
 3,5-Dimethoxybenzoic acid, 6202
 Ethyl 3,4-dihydroxybenzoate, 7432
 Jacaranone, 11807
 Methyl orsellinate, 14639
 Methyl vanillate, 14804
 Syringaldehyde, 20554
- C₉H₁₀O₅**
 Danshensu, 4630
 1,5-Dimethoxy-3-hydroxybenzoic acid, 6233
 3-Ethoxy-4,5-dihydroxy-benzoic acid, 7402
 Ethyl gallate, 7441
 α -Hydroxyhydrocaffeic acid, 10172
 Methyl-4-*O*-methylgallate, 14602
 Piscrococin B, 17484
 Syringic acid, 20566
 2,3,4-Trihydroxy-benzenepropanoic acid, 21689
- C₉H₁₁NO**
D-Cathinone, 3327
 Gentialutine, 8291
 Isogentialutine, 11435
- C₉H₁₁NO₂**
 Benzoic acid 2-methyl amino methyl ester, 2225
 Gentiaticetine, 8299
 Phenylalanine, 17093
- C₉H₁₁NO₃**
 Lysichitalexin, 13259
 (*S*)-Tyrosine, 22169
- C₉H₁₁NO₄**
 Dopa, 6558
- C₉H₁₁N₅O₃**
 Bioppterin, 2393
 (2*R*)-Hydroxy-4-(9-adenyl)butyric acid, 9766
- C₉H₁₁N₅O₄**
 7-Hydroxybiopterin, 9853
 Lentysine, 12624
 Trihydroxypropylpterisin, 21841
- C₉H₁₁O₅**
 7-Hydroxy viteoid II, 10825
- C₉H₁₂**
 1-Ethyl-2-methylbenzene, 7462
 1,2,3-Trimethylbenzene, 21942
- C₉H₁₂N₂O₆**
 Uridine, 22252
- C₉H₁₂O**
 α,α -Dimethylbenzene methanol, 6319
 Methyl (phenyl ethyl) ether, 14672
 Phenylpropyl alcohol, 17132
- C₉H₁₂O₂**
 3,5-Dimethoxytoluene, 6294
p-Hydroxybenzyl ethyl ether, 9839
- C₉H₁₂O₃**
 3-(3,4-Dihydroxyphenyl)-1-propanol, 6092
 Homovanillyl alcohol, 9624
 2-Hydroxy-3,5,5-trimethylcyclohex-2-ene-1,4-dione, 10807
 2-Methoxy-2-(4'-hydroxyphenyl)ethanol, 13966
- C₉H₁₂O₄**
 Aucubigenin, 2003
 Buergerinin G, 2708
 (3*S*,4*R*)-3-Carboxy-2-methylene-heptan-4-olide, 3179
 Chaetoquadrin F, 3445
 Decumbic acid, 4861
 Genipic acid, 8272
 Jiofuran, 11872
 Piscrococin A, 17483
- C₉H₁₂O₅**
 Rehmaglutin C, 18591
- C₉H₁₃ClO₃**
 Cistachlorin, 3749
- C₉H₁₃ClO₄**
 Rehmaglutin D, 18592
- C₉H₁₃ClO₅**
 Rehmaglutin B, 18590
- C₉H₁₃NO**
N-Methyltyramine, 14796
 Norephedrine, 15745
D-Norpseudoephedrine, 15789
- C₉H₁₃NO₂**
 Synephrine, 20552
- C₉H₁₃NO₃**
 Adrenaline, 653
- C₉H₁₃N₂O₉P**
 Uridinemonophosphate, 22254
 Uridylic acid, 22256
- C₉H₁₄**
 Santene, 19309
- C₉H₁₄N₂O₃**
 2-Methyl-3-(2',3',4'-trihydroxybutyl)pyrazine,

- 14780
C₉H₁₄N₂O₄
 2-Methyl-5-(1',2',3',4'-tetrahydroxybutyl)pyrazine,
 14752
- C₉H₁₄N₃O₈P**
 Cytidylic acid A, 4592
 Cytidylic acid B, 4593
- C₉H₁₄N₄O₃**
 Carnosine, 3205
- C₉H₁₄O**
 Crocusatin E, 4257
 Cryptone, 4288
 1(7),8(10)-*p*-Menthadien-9-ol, 13725
 2,4-Nonadienal, 15675
 2,6-Nonadienal, 15676
 2*E*,6*Z*-Nonadienal, 15677
 Nopinone, 15706
 2-Pentylfuran, 16893
 (-)-*β*-Pinone, 17408
 Santenone, 19310
 Spiro[4,4]nonane-2-one, 20204
- C₉H₁₄OS₃**
 Ajoene, 785
- C₉H₁₄O₂**
 Boschnialactone, 2566
 Crocusatin A, 4253
 (2*E*)-2,6-Dimethyl-2,5-heptadienoic acid, 6354
 (4*R*)-Hydroxy-3,5,5-trimethylcyclohex-2-enone,
 10808
 (4*S*)-Hydroxy-3,5,5-trimethylcyclohex-2-enone,
 10809
 2,4-Nonadienic acid, 15678
 3,5,5-Trimethyl-4-hydroxy-1-cyclohexanon-2-
 ene, 21967
- C₉H₁₄O₂S₂**
 Foetithiophene B, 7850
- C₉H₁₄O₂S₃**
E-1,7,11-Triene-4,5,9-trithiadodeca-9,9-dioxide,
 21626
- C₉H₁₄O₃**
 Boonein, 2546
 Buergerinin F, 2707
 7-Hydroxy-9-hydroxymethyl-3-oxo-bicyclo
 [4.3.0]-8-nonene, 10209
 Iridoid-related aglycone, 11148
 Ningpogenin, 15615
- C₉H₁₄O₄**
 Cistanin, 3750
 Jioglutolide, 11878
- C₉H₁₄O₅**
 Buergerinin B, 2703
 Rehmaglutin A, 18589
- C₉H₁₄O₆**
 7-Hydroxy eucommic acid, 10107
- C₉H₁₅NO**
 Pseudopelletierine, 18055
- C₉H₁₅NO₂**
 Homoarecoline, 9595
- C₉H₁₅NO₃**
n-Butyl pyroglutamate, 2804
 Ecgonine, 6683
 Isobutyl pyroglutamate, 11285
- C₉H₁₅N₂O₁₅P₃**
 Uridine-5'-triphosphatemonophosphate, 22255
- C₉H₁₅N₃O₂S**
 Ergothioneine, 7254
- C₉H₁₆**
 1-Propenyl-cyclohexane, 17920
- C₉H₁₆N₂O₂**
 Cyclo-(Ile-Ala), 4500
 Cyclo-(Leu-Ala), 4505
- C₉H₁₆N₂O₃**
 Cyclo-(Leu-Ser), 4507
- C₉H₁₆N₂O₅**
γ-*L*-Glutamyl-*L*-*β*-aminoisobutyric acid, 8771
- C₉H₁₆O**
 3-Ene-nonanone-2, 6800
 2,6-Nonadienol, 15679
 (*E*)-2-Nonenal, 15692
 Santenone alcohol, 19311
 2,2,6-Trimethyl cyclohexanone, 21949
- C₉H₁₆O₂**
γ-Nonalactone, 15680
 2-Nonenoic acid, 15694
 8-Nonenoic acid, 15695
 2,6,6-Trimethyl-2-hydroxycyclohexanone, 21966
- C₉H₁₆O₂S₂**
 Rutadisulfide A, 19080
- C₉H₁₆O₃**
 1-Deoxyeucommiol, 5173
 10-Deoxyeucommiol, 5174
erythro-5-*n*-Pentyl-4-hydroxytetrahydrofuran-
 2-one, 16895
threo-5-*n*-Pentyl-4-hydroxy
 tetrahydrofuran-2-one, 16896
- C₉H₁₆O₄**
 Azelaic acid, 2056
 4,4-Dimethyl-1,7-heptanedioic acid, 6357
 Eucommiol, 7488
 7-Hydroxy-10-deoxyeucommiol, 9988
 3-(2-Hydroxyethyl)-5-(2''-hydroxypropyl)-
 dihydrofuran-2(3*H*)-one, 10105
 Methyl-5,7-dihydroxy-2(*Z*)-octenoate, 14314
- C₉H₁₇N**
 Pinidine, 17390
- C₉H₁₇NO**
 Methyl isopelletierine, 14534
- C₉H₁₇NO₅**
 Vitamin B₅, 22555
- C₉H₁₇NO₈**
 Miserotoxin, 14885
- C₉H₁₇NO₁₀S₂**
 2-Hydroxyethyl glucosinolate, 10103
- C₉H₁₈**
 1-Nonene, 15693
 Propylcyclohexane, 17936
 1,2,3-Trimethyl-cyclohexane, 21947
 1,3,5-Trimethylcyclohexane, 21948
 3,4,4-Trimethyl-2-hexene, 21965
- C₉H₁₈N₂O₄**
 Lysopine, 13266
- C₉H₁₈O**
 Nonaldehyde, 15681
 2-Nonanone, 15687
 3-Nonanone, 15688
 1-Nonen-3-ol, 15696
- C₉H₁₈O₂**
 Amyl butyrate, 1104
 Isobutylisovalerate, 11276
 Methyl caprylate, 14215
 Nonanoic acid, 15684
- C₉H₁₈O₆**
 Isopropyl *β*-*D*-glucopyranoside, 11621
- C₉H₁₈O₇**
 Glycerol 2-*O*-*α*-*L*-fucopyranoside, 8810
 (2*S*)-Propane-1,2-diol 1-*O*-*β*-*D*-glucopyranoside,
 17911
- C₉H₁₈O₈**
 (2*R*)-1-*O*-Glyceryl-*β*-*D*-galactoside, 8813
- C₉H₁₉N**
 (+)-*N*-Methylconiine, 14250
- C₉H₂₀**
 2,3-Dimethylheptane, 6356
 3-Ethyl-2,3-dimethyl-pentane, 7434
 3-Methyl-3-ethylhexane, 14435
 2-Methyl octane, 14631
n-Nonane, 15683
 2,3,4-Trimethylhexane, 21963
- C₉H₂₀NO₂⁺**
 Muscarine I, 15125
 Muscarine II, 15126
- C₉H₂₀N₂O₂**
 Laminine, 12457
- C₉H₂₀O**
 Heptyl ethyl ether, 9418
 6-Methyl-1-octanol, 14632
 2-Nonanol, 15685
n-Nonanol, 15686
- C₁₀H₆O₂**

- 1,4-Naphthoquinone, 15255
- C₁₀H₆O₃**
Juglone, 11903
Lawsone, 12580
- C₁₀H₆O₄**
Ayapin, 2048
8-Formyl-7-hydroxycoumarin, 7904
6-Formylumbelliferone, 7913
Naphthazarin, 15253
- C₁₀H₆O₆**
Saikochromic acid, 19130
- C₁₀H₇NO₂**
Cinchonic acid, 3683
- C₁₀H₇NO₃**
6,7-Methylenedioxy-1(2*H*)-isoquinolinone, 14372
- C₁₀H₇NO₄**
Nukagenin, 15867
- C₁₀H₈**
Azulene, 2071
Naphthalene, 15252
- C₁₀H₈N₂**
Indole-3-acetonitrile, 11027
- C₁₀H₈N₂O₂**
2,3-Dihydro-4-hydroxy-2-indole-3-acetonitrile, 5637
- C₁₀H₈N₂O₂S₂Zn**
Zincpolyanemine, 23002
- C₁₀H₈O₂**
1,2-Hydronaphthoquinone, 9724
1,4-Hydronaphthoquinone, 9725
- C₁₀H₈O₂S**
Methyl *trans*-5-(2-thienyl)-2-penten-4-yn-1-olate, 14757
- C₁₀H₈O₃**
Erythrocentaurin, 7336
Herniarin, 9452
 α -Hydrojuglone, 9719
 β -Hydrojuglone, 9720
6-Hydroxy-7-methylcoumarin, 10482
- C₁₀H₈O₄**
Acamelin, 62
Anemonin, 1178
Daphnetin-7-methyl ether, 4647
Daphnetin-8-methyl ether, 4648
Erythrocentauric acid, 7335
Isoscopoletin, 11702
 β -Methylaesculetin, 14122
Scopoletin, 19542
- C₁₀H₈O₅**
Fraxetin, 7942
- C₁₀H₉ClO₅**
Longissiminone B, 12983
- C₁₀H₉NO**
Echinopsine, 6691
Indole-3-acetaldehyde, 11026
- C₁₀H₉NO₂**
Gentianine, 8297
3-Indolylacetic acid, 11031
Methyl indole-3-carboxylate, 14526
- C₁₀H₉NO₃**
N-Demethyloryphornine, 5077
Noroxyhydrastinine, 15787
- C₁₀H₉NO₄**
6-Hydroxy-5-methoxy-*N*-methylphthalimide, 10428
- C₁₀H₉N₅O**
Kinetin, 12227
- C₁₀H₉NaO₄**
Sodium ferulate, 20032
- C₁₀H₁₀N₄**
2-(4'-Aminobenzenamine)-pyrimidine, 1041
- C₁₀H₁₀O**
2-Phenyl-2-butenal, 17100
(*E*)-4-Phenyl-3-buten-2-one, 17101
- C₁₀H₁₀O₂**
Cumulene, 4360
(4*R*)-4-Hydroxy- α -tetralone, 10746
(4*S*)-4-Hydroxy- α -tetralone, 10747
Isosafrole, 11690
2-Methoxycinnamaldehyde, 13882
p-Methoxycinnamaldehyde, 13883
5-Methoxy-2-methylbenzofuran, 14003
Methylcinnamate, 14245
Methyl *p*-hydroxycinnamoyl ketone, 14500
1-Phenyl-1,3-butanedion, 17098
Safrole, 19121
- C₁₀H₁₀O₃**
Coniferyl aldehyde, 3983
(*E*)-4-(3,4-Dihydroxyphenyl)but-3-en-2-one, 6075
(4*R*)-4,8-Dihydroxy- α -tetralone, 6145
3-(4-Hydroxy-3-methoxyphenyl)-2-propenal, 10453
5-Hydroxymethylisochroman-1-one, 10498
p-Hydroxyphenyl crotonic acid, 10615
m-Methoxycinnamic acid, 13884
p-Methoxycinnamic acid, 13885
trans-Methyl *p*-coumarate, 14254
m-Methyl-*p*-hydroxy-cinnamic acid, 14499
(-)-Regiolone, 18588
- C₁₀H₁₀O₄**
Dimethyl phthalate, 6398
Ferulic acid, 7768
(-)-Gynuraone, 9123
Hesperetic acid, 9455
- 3 ξ -(1 ξ -Hydroxyethyl)-7-hydroxy-1-isobenzofuranone, 10104
(-)-(3*R*,4*S*)-4-Hydroxymellein, 10376
(-)-(3*R*)-5-Hydroxymellein, 10377
Kakuol, 12115
Meconine, 13633
Methyl caffeate, 14205
Vanillin acetate, 22337
- C₁₀H₁₀O₅**
Longissiminone A, 12982
Methyl(2,4-dihydroxy-3-formyl-6-methoxy)-phenylketone, 14301
- C₁₀H₁₀O₆**
Hemipic acid, 9349
m-Hemipic acid, 9350
- C₁₀H₁₁NO**
Boschniakine, 2565
- C₁₀H₁₁NO₃**
Gentianal, 8294
Gentioflavine, 8303
Northalifoline (tautomeric structure 1), 15802
Northalifoline (tautomeric structure 2), 15803
Tuberosine B, 22082
- C₁₀H₁₂**
m-Isopropenyl toluene, 11617
o-Isopropenyl toluene, 11618
p-Isopropenyl toluene, 11619
- C₁₀H₁₂N₂**
Anatabine, 1140
Tryptamine, 22058
- C₁₀H₁₂N₂O**
Acanthifoline, 77
Argutine B, 1677
Serotonin, 19760
- C₁₀H₁₂N₂O₃**
Kynurenine, 12399
- C₁₀H₁₂N₂O₄**
3-Hydroxykynurenine, 10294
- C₁₀H₁₂N₄O₅**
Hypoxanthine nucleoside, 10914
Inosine, 11082
6-Isoinosine, 11465
- C₁₀H₁₂O**
cis-Anethole, 1183
Anethole, 1186
Benzyl acetone, 2274
Cumaldehyde, 4354
Estragole, 7385
Lachnophyllol, 12429
2,4,6-Trimethylbenzaldehyde, 21941
- C₁₀H₁₂O₂**
Anisolacetone, 1289
(\pm)-Car-3-ene-2,5-dione, 3196

- Chavibetol, 3486
 Cumic acid, 4356
 Egomaketone, 6716
 Eugenol, 7521
 4-(4-Hydroxyphenyl)-2-butanone, 10614
 Isoegomaketone, 11406
 Isoeugenol, 11421
trans-4-Methoxycinnamoyl alcohol, 13896
 Naginataketone, 15238
 Phenylethyl acetate, 17111
 α -Thujaplicin, 21346
 β -Thujaplicin, 21347
 γ -Thujaplicin, 21348
 1,1,5-Trimethyl-2-formyl-cyclohexa-2,5-diene-4-one, 21957
- C₁₀H₁₂O₃**
trans-Coniferyl alcohol, 3982
 3,5-Dimethyl-4-methoxybenzoic acid, 6368
 5,6-Dimethyl-3a,4,7,7a-tetrahydro-1,3-Isobenzofurandione, 6412
 5-Ethyl-1-methoxy-2,3-methylenedioxybenzene, 7461
 2-(1'-Hydroxy-2'-oxopropyl)-5-methylphenol, 10581
p-Methoxydihydrocinnamic acid, 13906
 Methyl 4-methoxyphenylacetate, 14589
 1,3*R*,8*R*-Trihydroxydec-9-en-4,6-yne, 21703
 2,4,4-Trimethyl-3-formyl-6-hydroxy-2,5-cyclohexadien-1-one, 21958
- C₁₀H₁₂O₄**
 Acetosyringone, 116
 Anticancer Benzenoid PMV70P691-58, 1386
 Asarylaldehyde, 1840
 Cantharidin, 3094
 2,4-Dihydroxy-6-methoxy-3-methylacetophenone, 5988
 4-Ethoxy-3-methoxybenzoic acid, 7411
 3-Hydroxy-1-(4'-hydroxy-3'-methoxyphenyl)propan-1-one, 10192
 Methyl- β -orcinol carboxylate, 14637
 Methyl veratrate, 14806
 Paeonilactone B, 16527
 Rhizonic acid, 18779
 Sparassol, 20132
 Xanthoxilin, 22778
- C₁₀H₁₂O₅**
 Antiarolaldehyde, 1379
 Methyl 2-hydroxy-3,4-dimethoxy benzoate, 14502
 Methyl syringate, 14734
 Piscrococin C, 17485
 2,4,5-Trimethoxybenzoic acid, 21892
- C₁₀H₁₂O₆**
 (5*R*,8*R*)-1,6,9,13-Tetraoxadispiro[4.2.4.2]-tetradecane-2,10-dione, 21209
- C₁₀H₁₂O₇**
 1-*O*-Galloyl-glycerol, 8110
- C₁₀H₁₃BrCl₄**
 8-Bromo-1,3,4,7-tetrachloro-3,7-dimethyl-1*E*,5*E*-octadiene, 2625
- C₁₀H₁₃Br₂Cl₃**
 (1*R**,2*S**,4*S**,5*S**)-4-Bromo-5-bromomethyl-1*E*-chlorovinyl-2,5-dichloromethylcyclohexane, 2619
 Plocoralide C, 17565
- C₁₀H₁₃Br₂NO₄**
 1-Acetamide-3,5-dibromo-1-hydroxy-4,4-dimethoxy-2,5-cyclohexadiene, 110
- C₁₀H₁₃Br₃Cl₂**
 1,4,8-Tribromo-3,7-dichloro-3,7-dimethyl-1*E*,5*E*-octadiene, 21545
- C₁₀H₁₃ClO₄**
threo-3-Chloro-1-(4-hydroxy-3-methoxyphenyl)propane-1,2-diol, 3559
- C₁₀H₁₃N**
 Actinidine, 582
 5,6,7,8-Tetrahydro-4-methylquinoline, 21075
- C₁₀H₁₃NO₂**
 Daechu alkaloid A, 4596
 (3 α ,4 β ,5 α)-4,5-Dihydro-3-(1-pyrryl)-4,5-dimethyl-2(3*H*)-furanone, 5698
N-Methylphenylalanine, 14670
 (-)-Salsolinol, 19198
- C₁₀H₁₃NO₃**
 Damascenine, 4614
- C₁₀H₁₃N₅**
 Triacanthine, 21511
- C₁₀H₁₃N₅O**
 Zeatin, 22975
- C₁₀H₁₃N₅O₃**
 Cordycepin, 4048
- C₁₀H₁₃N₅O₄**
 Adenine nucleoside, 618
- C₁₀H₁₃N₅O₅**
 Crotonoside, 4272
 Guanosine, 9071
- C₁₀H₁₄**
p-Cymene, 4550
 3,5-Dimethylene-1,4,4-trimethylcyclopentene, 6350
- C₁₀H₁₄Br₂Cl₂**
 Plocoralide A, 17563
 Plocoralide B, 17564
- C₁₀H₁₄N₂**
 Anabasine, 1124
 (\pm)-Anabasine, 1125
- (-)-Nicotine, 15527
- C₁₀H₁₄N₂O₂**
L-Prolyl-*L*-proline anhydride, 17906
- C₁₀H₁₄N₂O₃**
 Chinese bittersweet alkaloid I, 3536
- C₁₀H₁₄N₂O₅**
 Thymidine, 21359
- C₁₀H₁₄N₅O₇P**
 5'-Adenosine monophosphate, 625
- C₁₀H₁₄O**
 1-Acetyl-4-isopropenyl cyclopentene, 440
 1-Acetyl-4-isopropylidene-cyclopentene, 441
 Carvacrol, 3231
 Carvone, 3237
 Chrysanthenone, 3596
 Cumic alcohol, 4357
 Eucarvone, 7483
 Isopiperitenone, 11603
 Limonene-10-al, 12842
 5-Methylene-2,3,4,4-tetramethylcyclopent-2-enone, 14392
 Myrtenal, 15219
 α -Naginatene, 15239
 β -Naginatene, 15240
 Perillaldehyde, 16930
 (-)-Pinocarvone, 17402
 Piperitenone, 17452
 Safranal, 19120
 Teresantalaldehyde, 20971
 Thymol, 21360
 3,6,6-Trimethyl-2,4-cycloheptadien-1-one, 21946
 Verbenone, 22399
- C₁₀H₁₄O₂**
 Actinidialactone, 581
 3,7-Dimethyl-2,6-octadien-1,6-olide, 6382
 Dolichodial, 6550
 Elsholtzia ketone, 6763
 Isoactinidialactone, 11196
 (-)-Isochaminic acid, 11322
 Isononepetalactone, 11560
 Isonepetalactone, 11562
 Myrtenic acid, 15220
 Neonepetalactone, 15437
 Nepetalactone, 15484
cis-Nepetalactone, 15485
trans-Nepetalactone, 15486
 6-*n*-Pentyl- α -pyrone, 16897
 Perilla ketone, 16929
 Rhododendrol, 18796
 (+)-Rhododendrol, 18797
 Rotundifolone, 18954
 α -Teresantallic acid, 20972
 3,4,5,5-Tetramethylcyclopenta-1,3-diene-

- carboxylic acid, 21193
Thymolhydroquinone, 21361
- C₁₀H₁₄O₃**
Crocusatin I, 4261
Dihydroconiferyl alcohol, 5564
3-Hydroxy-4(8)-ene-*p*-menthane-3(9)-lactone, 10069
1-(4'-Methoxyphenyl)-(1*R*,2*R*)-propanediol, 14062
1-(4'-Methoxyphenyl)-(1*R*,2*S*)-propanediol, 14063
1-(4'-Methoxyphenyl)-(1*S*,2*R*)-propanediol, 14064
1-(4'-Methoxyphenyl)-(1*S*,2*S*)-propanediol, 14065
1,2,3-Trimethoxy-5-methyl benzene, 21919
2,3,5-Trimethoxytoluene, 21935
- C₁₀H₁₄O₄**
Buergerinin C, 2704
2-Carboxymethyl-4-(3'-hydroxybutyl)furan, 3180
Cepharosporolide E, 3414
Cepharosporolide F, 3415
Crocusatin F, 4258
Gardendiol, 8227
1-(4-Hydroxy-3-methoxyphenyl)propan-1,2-diol, 10452
Paeonilactone A, 16526
Suspenolic acid, 20497
3,4,5-Trimethoxy-benzyl alcohol, 21897
- C₁₀H₁₄O₅**
Buergerinin D, 2705
(1*R*,4*R*,4*aS*,7*aS*)-4,7-Dihydroxymethyl-1-hydroxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta-6-ene[*e*]pyran-3-one, 6035
4,4-Dimethyl-7*α*,8*β*-dihydroxy-3,5-dioxobicyclo[4.3.1]dec-1(10)-en-2-one, 6339
erythro-Guaiacylglycerol, 9022
threo-Guaiacylglycerol, 9028
Morindacin, 14972
Non-glycosidic iridoid, 15697
- C₁₀H₁₄O₅S**
(*S*)-4-(4-Hydroxyphenyl)-2-butanol 2-*O*-sulfate, 10613
- C₁₀H₁₅ClO₅**
Jioglutin A, 11873
Jioglutin B, 11874
- C₁₀H₁₅N₅O₁₀P₂**
Adenosine diphosphate, 624
- C₁₀H₁₅NO**
Ephedrine, 6815
Hordenine, 9646
D-Pseudoephedrine, 18024
- C₁₀H₁₅NO₄**
- α*-Allokainic acid, 936
- C₁₀H₁₅O₃**
GSIR-1, 9019
- C₁₀H₁₅O₄**
(5-Butyl-3-oxo-2,3-dihydrofuran-2-yl)-acetic acid, 2802
- C₁₀H₁₆**
Alloocimene, 939
Artemisia triene, 1796
Bornylene, 2559
Camphene, 3045
Carene-3, 3194
Carene-4, 3195
1,1-Dimethyl-2-(3-methyl-1,3-butadiene)-cyclo-propane, 6371
Dipentene, 6482
α-Fenchene, 7749
β-Fenchene, 7750
D-Limonene, 12843
L-Limonene, 12844
2,4(8)-*p*-Menthadiene, 13718
1-Methyl-4-methylethylcyclohexene, 14599
Myrcene, 15146
Ocimene, 15925
β-*cis*-Ocimene, 15926
β-*trans*-Ocimene, 15927
α-Phellandrene, 17055
β-Phellandrene, 17056
α-Pinene, 17376
β-Pinene, 17377
Sabinene, 19099
Sylvestrene, 20524
α-Terpinene, 20988
β-Terpinene, 20989
γ-Terpinene, 20990
Terpinolene, 20998
Thujene, 21349
Tricyclene, 21598
3,6,6-Trimethyl-bicyclo[3.1.1]-2-heptene, 21944
1,3,3-Trimethyltricyclo[2.2.1.0^{2,6}]heptane, 21975
- C₁₀H₁₆N₂O₂**
Cyclo-(Pro-Val), 4534
- C₁₀H₁₆N₂O₃S**
Biotin, 2395
- C₁₀H₁₆N₂O₅**
Pinnatanine, 17392
- C₁₀H₁₆N₂O₆**
Oxypinnatanine, 16469
- C₁₀H₁₆N₂O₇**
γ-*L*-Glutamyl-*L*-glutamic acid, 8773
- C₁₀H₁₆N₄O₃**
Anserine, 1350
- C₁₀H₁₆N₄O₇**
- Vicine, 22466
- C₁₀H₁₆N₅O₁₃P₃**
Adenosine triphosphate, 626
- C₁₀H₁₆O**
Artemisia ketone, 1795
Camphor, 3048
cis-Carveol, 3234
trans-Carveol, 3235
Chrysanthemal, 3591
Citral, 3760
(*E*)-Citral, 3761
(*Z*)-Citral, 3762
(*E,E*)-2,4-Decadienal, 4817
3,7-Dimethyl-1,5,7-octatrien-3-ol, 6384
Fenchone, 7751
Isopinocampone, 11602
2-Isopropenyl-5-methylhexa-*trans*-3,5-dien-1-ol, 11615
Isopulegone, 11639
Isothujone, 11742
Matatabiether, 13596
1(7),2-*p*-Menthadien-4-ol, 13723
1(7),2-*p*-Menthadien-6-ol, 13724
cis-p-2,8-Menthadien-1-ol, 13726
3,8(9)-*p*-Menthadien-1-ol, 13727
p-Menth-4-en-3-one, 13772
2-Methyl-6-methylene-2,7-octadienol, 14597
Myrtenol, 15221
Perilal, 16926
(*R*)-Perilla alcohol, 16927
(*S*)-Perilla alcohol, 16928
Perillyl alcohol, 16935
Phellandral, 17054
L-Pinocampone, 17400
trans-Pinocarveol, 17401
Piperitone, 17456
Pulegone, 18190
Sabinol, 19101
Teresantalol, 20973
1-Thujone, 21350
Thujylalcohol, 21355
1,3,4-Trimethyl-3-cyclohexene-1-carboxaldehyde, 21950
Verbenol, 22398
3,6,6-Trimethyl norpinan-2-one, 21970
- C₁₀H₁₆O₂**
Aleprestic acid, 883
Allomatatabiol, 937
Ascaridole, 1842
Chrysanthemic acid, 3593
Crocusatin C, 4255
Decadienoic acid, 4819
Dihydronepetalactone, 5680

- Diosphenol, 6455
 5-Hydroxymatatabiether, 10365
 (+)-Iridodial, 11143
 Iridomyrmecin, 11149
 Isodihydroepinepetalactone, 11378
 Isoiridomyrmecin, 11467
 Matatabilactone, 13597
 Matatabiol, 13598
 (-)-(1*R*,4*S*)-*p*-Mentha-2,8-dien-1-hydroperoxide, 13719
 (-)-(1*S*,4*S*)-*p*-Mentha-2,8-dien-1-hydroperoxide, 13720
 (-)-(2*R*,4*S*)-*p*-Mentha-1(7),8-dien-2-hydroperoxide, 13721
 (-)-(2*S*,4*S*)-*p*-Mentha-1(7),8-dien-2-hydroperoxide, 13722
 6 α -Methyl-2,6 β -dihydroxymethylbicyclo[3.1.1]-hept-2-ene, 14310
 1,10-Oxy- α -myrcene hydroxide, 16452
 1,10-Oxy- β -myrcene hydroxide, 16453
 Piperitone oxide, 17457
 Schizonol, 19509
- C₁₀H₁₆O₃**
 Crocusatin B, 4254
 Crocusatin D, 4256
 Crocusatin J, 4262
 Crocusatin K, 4263
 Crocusatin L, 4264
 (4*S*,8*R*)-8,9-Dihydroxy-8,9-dihydrocarvone, 5809
 (4*S*,8*S*)-8,9-Dihydroxy-8,9-dihydrocarvone, 5810
 Elsholtzidiol, 6764
 (*R*)-6-Hydroxy-3-(2-hydroxypropan-2-yl)-6-methylcyclohex-2-enone, 10216
 (4*R*)-4-Hydroxymethylboschnialactone, 10470
 Nepetalic acid, 15487
 Rehmapicrogenin, 18600
 Schizonodiol, 19508
- C₁₀H₁₆O₄**
 Camphoric acid, 3051
 4,7-Dihydroxy-10-methyl-3,4,7,8,9,10-hexahydro-oxecin-2-one, 6034
 (4*R*,5*R*,7*S*,8*S*,9*S*)-7-Hydroxy-8-hydroxymethyl-4-methyl-perhydrocyclopenta[*c*]pyran-1-one, 10208
 Masutakic acid A, 13593
 Villosol, 22480
- C₁₀H₁₆O₅**
 Buergerinin E, 2706
 Cepharosporolide C, 3413
- C₁₀H₁₆O₆**
 Jioglutin C, 11875
 Melimissanol A, 13682
- C₁₀H₁₆O₉**
 6-*O*-malonyl- β -methyl-*D*-glucopyranoside, 13447
- C₁₀H₁₇N₃O₃**
 Erycibe alkaloid II, 7298
 Tussilagine, 22143
- C₁₀H₁₇N₃O₆**
 Linamarin, 12854
- C₁₀H₁₇N₃O₇S₂**
 Sinigrin, 19935
- C₁₀H₁₇N₃O₈**
 Cordycydeptide A, 4046
- C₁₀H₁₇N₃O₆S**
 γ -*L*-Glutamyl-glutamine, 8774
 Norophthalmic acid, 15784
- C₁₀H₁₇N₃O₆S**
 Glutathione, 8785
- C₁₀H₁₇N₇O₄**
 Saxitoxin, 19431
- C₁₀H₁₈**
 Butylidene-cyclohexane, 2795
 $\Delta^1(7)$ -Menthene, 13742
 Δ^3 -Menthene, 13743
p-1-Menthene, 13744
 1-Methyl-4-isoallyl-cyclohexane, 14528
- C₁₀H₁₈N₂O₂**
 Slaframine, 20017
L-Valyl-*L*-valine anhydride, 22329
- C₁₀H₁₈N₂O₃**
 Cyclo-(Leu-Thr), 4508
- C₁₀H₁₈N₂O₅**
 γ -Glutamyl-valine, 8783
- C₁₀H₁₈O**
 Artemisia alcohol, 1793
 Borneol, 2550
D-Borneol, 2553
L-Borneol, 2555
 2-Caraneol, 3150
 3-Caraneol, 3151
 1,4-Cineole, 3688
 1,8-Cineole, 3689
 Citronellal, 3767
 Dihydrocarveol, 5555
 Dihydroperilla alcohol, 5690
 3,7-Dimethyl-7-octenal, 6385
 Eucalyptol, 7481
 Fenchyl alcohol, 7752
 Geraniol, 8312
D-Isoborneol, 11259
L-Isoborneol, 11260
 Isomenthone, 11533
 Isopulegol, 11638
 Lavandulol, 12578
 Linalool, 12849
- cis*-*p*-2-Menthen-1-ol, 13770
trans-*p*-2-Menthen-1-ol, 13771
 Menthone, 13776
 4-Methyl-1-(1-methylethyl)-3-cyclohexene-1-ol, 14600
 Myrtanol, 15218
 Neoisopulegol, 15413
 Neoisopulegol, 15415
 Nerol, 15498
 Piperitol, 17453
 (3*R*,4*S*)-(-)-*trans*-Piperitol, 17454
 (3*S*,4*R*)-(+)-*cis*-Piperitol, 17455
 Rose oxide, 18920
 Sabinene hydrate, 19100
 1-Terpinen-5-ol, 20991
 Terpinen-4-ol, 20992
cis- β -Terpineol, 20993
trans- β -Terpineol, 20994
 α -Terpineol, 20995
 δ -Terpineol, 20997
 Thujanol-4, 21344
 3,6,6-Trimethyl bicyclo[3.1.1]-heptanol, 21943
 $\alpha,\alpha,4$ -Trimethyl-3-cyclohexene methanol, 21951
 2,2,6-Trimethyl-6-vinyl-tetrahydropyran, 21979
 Yomogi alcohol A, 22922
- C₁₀H₁₈O₂**
 γ -Decanolactone, 4835
cis-4-Decenoic acid, 4843
trans-4-Decenoic acid, 4844
 1,2-Dihydroxy-8(9)-ene-*p*-menthane, 5868
 (3*R*,4*R*,6*S*)-3,6-Dihydroxy-1-menthene, 5959
 (5*E*)-2,6-Dimethyl-5,7-octadiene-2,3-diol, 6380
 Epoxydihydrolinalool, 7072
 7-Hydroxydihydromatatabiether, 10008
 4-Hydroxy-2-isopropenyl-5-methylene-hexan-1-ol, 10261
trans-5-Hydroxy-2-isopropenyl-5-methylhex-3-en-1-ol, 10262
 4-Hydroxymethyl-3,5,5-trimethylcyclohex-3-enol, 10524
 Isonematatabiol, 11559
 Linalyl oxide, 12853
p-Mentha-8-en-1,2-diol, 13729
 6 α -Methyl-2 $\alpha,6\beta$ -dihydroxymethylbicyclo[3.1.1]heptane, 14308
 Neomatatabiol, 15434
 Sobrerol, 20030
- C₁₀H₁₈O₃**
 (1*S*,4*S*,8*S*)-8,9-Dihydroxytetrahydrocarvone, 6141
 ω -*cis*-Hydroxy- Δ^2 -decenoic acid, 9966
 ω -*trans*-Hydroxy- Δ^2 -decenoic acid, 9967
cis-*p*-Menth-2-ene-1 $\alpha,7,8$ -triol, 13765

- trans-p*-Menth-2-ene-1 α ,7,8-triol, 13766
p-Menth-3-ene-1 β ,2 β ,5 β -triol, 13767
Methyl 4-oxononanoate, 14649
- C₁₀H₁₈O₄**
Dibutyl oxalate, 5403
Sebacic acid, 19596
- C₁₀H₁₈O₁₀**
Peltalosa, 16792
- C₁₀H₁₉NO**
Epilupinine, 6955
Lupinine, 13104
- C₁₀H₁₉NS**
9-Methylthiononanenitrile, 14761
- C₁₀H₂₀**
Butyl-cyclohexane, 2790
1-Decene, 4841
- C₁₀H₂₀N₂O₃**
Azoxyalkene, 2063
L-Valine-*L*-valine anhydride, 22325
- C₁₀H₂₀O**
Carvomenthol, 3236
Citronellol, 3768
Decanal, 4833
Menthol, 13774
Menthol-b, 13775
1-Methyl-3-isopropoxy cyclohexane, 14536
- C₁₀H₂₀O₂**
Capric acid, 3138
Iridodiol, 11145
n-Octyl acetate, 15987
Terpin, 20987
- C₁₀H₂₀O₃**
(3*S*,6*R*)-6,7-Dihydroxy-6,7-dihydrolinalool, 5811
(3*S*,6*S*)-6,7-Dihydroxy-6,7-dihydrolinalool, 5812
trans-p-Menthane-1 α ,2 β ,8-triol, 13739
4-*p*-Menthane-1,7,8-triol, 13740
- C₁₀H₂₀O₄**
3,7-Dimethyloct-3(10)-ene-1,2,6,7-tetrol, 6387
4 β *H*-*cis-p*-Menthane-2 α ,6 α ,8,9-tetrol, 13730
rel-(1*R*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol, 13731
(1*R*,2*S*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrol, 13732
rel-(1*S*,2*R*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrol, 13733
rel-(1*S*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol, 13734
(1*S*,2*S*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol, 13735
Thellungianol, 21309
- C₁₀H₂₀O₆**
Butan-2-*O*- β -*D*-glucopyranoside, 2778
Isobutyl β -*D*-glucopyranoside, 11275
 β -*n*-Butyl-*D*-tagatopyranoside, 2806
- C₁₀H₂₀O₇**
Butane-2,3-diol 2-*O*- β -*D*-glucopyranoside, 2777
- C₁₀H₂₀O₈**
1-Deoxy-*L*-erythritol 3-*O*- β -*D*-glucopyranoside, 5172
- C₁₀H₂₁NO₄**
6-*C*-Butyl-DMDP, 2792
- C₁₀H₂₁O₄**
(3*E*)-3,7-Dimethyl-3-octene-1,2,6,7-tetrol, 6386
- C₁₀H₂₂**
Decane, 4834
5-Ethyl-2-methylheptane, 7464
3-Methylnonane, 14621
4-Methylnonane, 14622
- C₁₀H₂₃N**
N,N-Dimethylconiine, 6332
- C₁₀H₂₆N₄**
Spermine, 20147
- C₁₁H₆O₃**
Angelicin, 1191
Psoralen, 18086
- C₁₁H₆O₄**
Bergaptol, 2310
Xanthotoxol, 22775
- C₁₁H₇ClO₃**
3-Chloroplumbagin, 3569
- C₁₁H₈**
Norcapillene, 15724
- C₁₁H₈N₂**
Norharman, 15752
- C₁₁H₈O**
 β -Naphthaldehyde, 15251
- C₁₁H₈O₂**
Dehydromatricaria ester, 4946
trans-Dehydromatricaria ester, 4947
2-Methyl-1,4-naphthoquinone, 14612
- C₁₁H₈O₃**
7-Methyl juglone, 14541
Plumbagin, 17568
- C₁₁H₈O₄**
Angelical, 1189
Droserone, 6605
2,3-Epoxyplumbagin, 7189
8-Formyl-7-methoxycoumarin, 7909
2-Methoxyjuglone, 13978
3-Methoxyjuglone, 13979
- C₁₁H₈O₅**
5-Carboxy-7-hydroxy-2-methyl-benzopyran- γ -one, 3173
Hydroxydroserone, 10060
6-Methoxy-7,8-methylenedioxcoumarin, 14013
Yunnngin B, 22954
- C₁₁H₈O₇**
3,8-Dihydroxy-4-methoxy-2-oxo-2*H*-1-benzopyran-5-carboxylic acid, 5994
- C₁₁H₉NO₃**
Doryanine, 6573
- C₁₁H₉NO₄**
4-Carbomethoxy-6-hydroxy-2-quinolone, 3162
8-Methoxy-4-quinolone-2-carboxylic acid, 14083
- C₁₁H₁₀**
1-Methyl naphthalene, 14611
- C₁₁H₁₀N₂⁺**
6,7-Methylenedioxy-*N*-methylisoquinoline, 14378
- C₁₁H₁₀N₂O**
Deoxyvasicinone, 5219
1,2,3,4-Tetrahydro-1-oxo- β -carboline, 21076
- C₁₁H₁₀N₂O₂**
Vasicinone, 22350
- C₁₁H₁₀N₆O**
Pedatisectine A, 16759
- C₁₁H₁₀O₂**
Matricaria ester, 13603
Methyl(2*E*,8*Z*)-decadien-4,6-dienoate, 14283
- C₁₁H₁₀O₃**
2,5-Dimethyl-7-hydroxy chromone, 6360
Psilotic acid, 18084
- C₁₁H₁₀O₄**
Citropten, 3770
Dulcinone, 6622
Eugenin, 7519
7-Hydroxy-4-methoxy-5-methylcoumarin, 10419
Isoeugenitol, 11420
Lathodoratin, 12542
(*E*)-3-Methoxy-4,5-methylenedioxcinnamaldehyde, 14012
Phellodenol A, 17067
Phellodenol B, 17068
trans-Phenylitaconic acid, 17126
Scoparone, 19540
- C₁₁H₁₀O₅**
5,6-Dimethoxy-7-hydroxycoumarin, 6236
Fraxidin, 7943
7-Hydroxy-6,8-dimethoxy coumarin, 10017
Isofraxidin, 11428
Scicochromone A, 19515
- C₁₁H₁₀O₇**
(+)-Taraxafolin B, 20696
- C₁₁H₁₀O₉**
L-Malic acid 2-*O*-gallate, 13420
- C₁₁H₁₁NO**
6-Methoxy-4-methylquinoline, 14036
Phlegmariurine N, 17158
- C₁₁H₁₁NO₂**
4-Methoxy-1-methyl-2-quinolone, 14037

- C₁₁H₁₁NO₃**
 Doryphornine, 6574
 Gentianamine, 8295
 Oxyhydrastinine, 16446
- C₁₁H₁₁NO₄**
 5,6-Dimethoxy-*N*-methylphthalimide, 6268
- C₁₁H₁₂NO⁺**
 Echinorine, 6692
- C₁₁H₁₂N₂**
 Deoxypeganine, 5201
- C₁₁H₁₂N₂O**
 Peganine, 16770
 Peganol, 16771
- C₁₁H₁₂N₂O₂**
 7-hydroxy vasicine, 10821
 Pegamine, 16768
Tryptophan, 22060
 Vasicinol, 22349
- C₁₁H₁₂N₂O₃**
 5-Hydroxy-*L*-tryptophan, 10818
- C₁₁H₁₂O₂**
 2-(Butyn-2-ylidene)-*d*³-dihydrofuran[5-spiro-2']-tetrahydrofuran, 2807
 Cinnamyl acetate, 3726
 Ethylcinnamate, 7430
 2-(1'-Methylethenyl)-6-hydroxy-2,3-dihydrobenzo[*b*]furan, 14429
- C₁₁H₁₂O₃**
 Anticancer Benzenoid PMV70P691-57, 1385
 Asaricin, 1832
 Croweacin, 4276
 Dictafofin A, 5443
 (-)-5-Hydroxy-4-methoxy-1-tetralone, 10460
 (4*R*)-5-Hydroxy-4-methoxy- α -tetralone, 10461
 Isomyristicin, 11552
 (*E*)-*p*-Methoxycinnamic acid methyl ester, 13886
 3-(4-Methoxyphenyl)-2-methyl-2-acrylic acid, 14060
 Myristicin, 15204
 Pedicellarin, 16761
- C₁₁H₁₂O₄**
 Caffeic acid dimethyl ether, 2888
 (4*S*)-4,8-Dihydroxy-5-methoxy- α -tetralone, 6005
 (4*R*)-5,8-Dihydroxy-4-methoxy- α -tetralone, 6006
 (4*S*)-5,8-Dihydroxy-4-methoxy- α -tetralone, 6007
 6,7-Dimethoxy-2*H*-1-benzopyran-2-one, 6203
 3,4-Dioxymethylene-5-methoxy-1-(1-oxopropyl)benzene, 6479
 Ethyl caffeate, 7424
 Methyl *cis*-ferulate, 14442
 Methyl *trans*-ferulate, 14443
 3-Methyl-6-methoxy-8-hydroxy-3,4-dihydroisocoumarin, 14586
- Sinapaldehyde, 19910
- C₁₁H₁₂O₅**
 3-Aldehyde-6-methyl-2,4-dihydroxy-ethylbenzoate, 873
 Elenolide, 6747
 Plumbagic acid, 17567
 Sinapic acid, 19912
- C₁₁H₁₂O₇**
 Piscidic acid, 17479
- C₁₁H₁₃NO₂**
 (4*S*,5*R*) Ephedroxane, 6816
- C₁₁H₁₃NO₃**
 Cantleyine, 3103
 Corydaldine (tautomeric structure 1), 4100
 Corydaldine (tautomeric structure 2), 4101
 Isocantleyine, 11305
 Thalifoline, 21255
- C₁₁H₁₃NO₄**
 Wilfordic acid, 22676
- C₁₁H₁₄N₂**
 Gramine, 8971
- C₁₁H₁₄N₂O**
 Cytisine, 4594
 Gramine *Nb*-oxide, 8973
- C₁₁H₁₄N₄O₆**
 1-Methylxanthosine, 14816
- C₁₁H₁₄O**
 1-Methoxy-4-(2-methylpropenyl)benzene, 14033
- C₁₁H₁₄O₂**
 Actinidiolide, 583
 1-Allyl-2,4-dimethoxybenzene, 945
 Eugenol methyl ether, 7523
p-Methoxybenzylacetone, 13852
 4-(3-Methyl-2-butenyl)-4-cyclohexene-1,3-dione, 14180
cis-Methyl isoeugenol, 14530
trans-Methyl isoeugenol, 14531
- C₁₁H₁₄O₃**
 Feroxidin, 7761
 Gynunol, 9121
 2-Methoxy-4-(3-methoxy-1-propenyl)-phenol, 14001
 Nakienone A, 15242
 Zingerone, 23003
- C₁₁H₁₄O₄**
 Desaspidinol, 5244
 Diethylene glycol monobenzoate, 5501
 3-(3,4-Dihydroxyphenyl)-2-propen-1-ethanoate, 6094
 Robustaol B, 18868
 Sinapyl alcohol, 19922
- C₁₁H₁₄O₅**
 Dehydromorroniaglycone, 4951
- Dunnisinin, 6639
 Genipin, 8273
 3-Hydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-1-propanone, 10180
 Sarracenin, 19387
 Taraxafofin, 20695
- C₁₁H₁₄O₆**
 2,3-Dihydroxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-1-propanone, 5907
 Genipinic acid, 8275
 Lamiophlomiol A, 12459
 Lamiophlomiol B, 12460
 Methyl syramuraldehydate, 14733
- C₁₁H₁₄O₇**
 Lamiophlomiol C, 12461
- C₁₁H₁₅N**
 5,6,7,8-Tetrahydro-2,4-dimethylquinoline, 21069
- C₁₁H₁₅NO**
 3,4-Dimethyl-5-phenyloxazolidine, 6396
- C₁₁H₁₅NO**
 Valerianine, 22319
- C₁₁H₁₅NO₂**
 Corypalline, 4121
- C₁₁H₁₅NO₂**
 6,7-Dihydroxy-1,1-dimethyl-1,2,3,4-tetrahydroisoquinoline, 5862
- C₁₁H₁₅NO₂**
N,N-Dimethylphenylalanine, 6394
- C₁₁H₁₅NO₂**
 3-Ethoxymethyl-5,6,7,8-tetrahydro-8-indolizinone, 7413
- C₁₁H₁₅NO₂**
 Salsoline, 19196
- C₁₁H₁₅NO₄**
 Radicamine B, 18525
- C₁₁H₁₅NO₇**
 Brachystemoside A, 2583
- C₁₁H₁₅N₅O**
 Ganoderpurine, 8192
- C₁₁H₁₆N₂O₂**
 Pilocarpine, 17360
- C₁₁H₁₆O**
 2-Isopropyl-5-methylanisole, 11626
 Jasmone, 11824
 2-Methyl-4-(1,1-dimethylethyl) phenol, 14323
 3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one, 14664
- C₁₁H₁₆O₂**
 Jasmololone, 11823
 Nortricycloekasantalic acid, 15810
- C₁₁H₁₆O₃**
 5-Ethyl-1,2,3-trimethoxybenzene, 7479
 Isololilide, 11508

- 3-Isopropyl-5-acetoxycyclohexene-2-one-1, 4496
(6*S*,7*αR*)-Loliolide, 12952
Loliolide isomer, 12953
8-Methoxy-9-hydroxythymol, 13969
- C₁₁H₁₆O₄**
Melazolide A, 13660
- C₁₁H₁₆O₅**
(1*R*,4*R*,4*aS*,7*aS*)-4,7-Dihydroxymethyl-1-methoxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta-6-en[e]pyran-3-one, 6038
(1*R*,4*S*,4*aS*,7*aS*)-4,7-Dihydroxymethyl-1-methoxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta-6-en[e]pyran-3-one, 6039
- C₁₁H₁₆O₆**
erythro-1-*C*-Syringylglycerol, 20572
threo-1-*C*-Syringylglycerol, 20574
- C₁₁H₁₆O₈**
Protoanemonin hydrate glucoside, 17965
Ranunculin, 18545
- C₁₁H₁₇NO**
N-Methylephedrine, 14395
D-*N*-Methyl-pseudoephedrine, 14701
Tecomanine, 20896
- C₁₁H₁₇NO₂**
Ganoine, 8194
Magnosprengerine, 13393
- C₁₁H₁₇NO₃**
Mescaline, 13795
- C₁₁H₁₇NO₆**
Rhodiocyanoside A, 18790
- C₁₁H₁₇NO₇**
Cardiospermin, 3190
Sarmentosin, 19377
- C₁₁H₁₇NO₈**
Pyroglutamic acid *N*-fructoside, 18267
Sarmentosin epoxide, 19379
- C₁₁H₁₇N₃O₈**
Tetrodonic acid, 21210
Tetrodotoxin, 21211
- C₁₁H₁₈NO⁺**
N-Candicine, 3070
- C₁₁H₁₈N₂O₂**
L-Prolyl-*L*-valine anhydride, 17907
- C₁₁H₁₈N₂O₆S**
γ-*L*-Glutamyl-*S*-(prop-1-enyl)cystein sulfoxide, 8780
- C₁₁H₁₈O₂**
Linalylformate, 12852
- C₁₁H₁₈O₃**
Aeginetolide, 657
- C₁₁H₁₈O₅**
(1*R*,4*R*,4*aS*,7*S*,7*aS*)-7-Hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta[*e*]-pyran-3-one, 10321
(1*R*,4*S*,4*aS*,7*S*,7*aS*)-7-hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta[*e*]-pyran-3-one, 10322
(1*S*,4*R*,4*aS*,7*S*,7*aS*)-7-Hydroxyl-4-hydroxymethyl-7-methyl-1-methoxyl-1,4,4*a*,7*a*-tetrahydrocyclopenta[*e*]-pyran-3-one, 10323
- 4-Hydroxy-5-methoxy-10-methyl-oxecane-2,7-dione A, 10426
4-Hydroxy-5-methoxy-10-methyl-oxecane-2,7-dione B, 10427
- C₁₁H₁₈O₆**
Jioglutin D, 11876
- C₁₁H₁₈O₈**
Securiterpenoside, 19643
Tuliposide A, 22104
- C₁₁H₁₈O₉**
Tuliposide B, 22105
6-Tuliposide B, 22106
- C₁₁H₁₉NO₆**
Heterodendrin, 9467
Lotaustralin, 13003
- C₁₁H₁₉NO₁₀S₂**
2-Hydroxybut-3-enyl glucosinolate, 9863
Progoitrin, 17903
- C₁₁H₁₉N₃O₆**
Ophthalmic acid, 16153
- C₁₁H₁₉N₃O₆S**
S-Methylglutathione, 14472
- C₁₁H₂₀NO₁₀S₃⁻**
Glucosiberin, 8598
- C₁₁H₂₀NO₁₁S₃⁻**
Glucoscheirolin, 8591
- C₁₁H₂₀N₂O₂**
Cyclo-(Ile-Val), 4501
Cyclo-(Leu-Val), 4510
- 3-Isopropyl-6-isobutyl-2,5-dioxopiperazine, 11624
3-Isopropyl-6-tert-butyl-2,5-piperazinedione, 11631
- C₁₁H₂₀N₂O₆**
Saccharopine, 19105
- C₁₁H₂₀O₂**
3-Acetoxy-1-nonene, 264
γ-Undecalactone, 22217
10-Undecenoic acid, 22221
- C₁₁H₂₀O₄**
Dimethyl azelate, 6317
- C₁₁H₂₀O₅**
Jioglutin E, 11877
- C₁₁H₂₀O₆**
Crenulatin, 4227
- Officialisin, 16014
- C₁₁H₂₀O₈**
Hymenoside M, 10856
Hymenoside W, 10866
3-(Methoxycarbonyl)propyl-*β*-*D*-glucopyranoside, 13877
- C₁₁H₂₁N**
β-Skytanthine, 20016
- C₁₁H₂₁NO**
Tecostanine, 20898
- C₁₁H₂₁NO₂S**
Rorifone, 18909
- C₁₁H₂₂**
Methyl cyclodecane, 14269
Undecene, 22220
- C₁₁H₂₂O**
Methyl-*n*-nonylketone, 14623
1-Undecen-3-ol, 22222
- C₁₁H₂₂O₂**
8-Methyl capric acid, 14214
2-Nonyl acetate, 15698
Undecanoic acid, 22218
- C₁₁H₂₂O₉**
2-*C*-Methyl-*D*-erythritol
1-*O*-*β*-*D*-fructofuranoside, 14420
2-*C*-Methyl-*D*-erythritol
3-*O*-*β*-*D*-fructofuranoside, 14421
2-*C*-Methyl-*D*-erythritol
4-*O*-*β*-*D*-fructofuranoside, 14422
2-*C*-Methyl-*D*-erythritol
1-*O*-*β*-*D*-glucopyranoside, 14423
2-*C*-Methyl-*D*-erythritol
3-*O*-*β*-*D*-glucopyranoside, 14424
2-*C*-Methyl-*D*-erythritol
4-*O*-*β*-*D*-glucopyranoside, 14425
- C₁₁H₂₃NO₃S**
Rorifamide, 18908
- C₁₁H₂₄**
2,4,6-Trimethyl octane, 21972
- C₁₁H₂₄O**
Nonyl ethyl ether, 15700
Undecan-2-ol, 22219
Undecyl alcohol, 22226
- C₁₂H₆S**
2-(Buta-1,3-diynyl)-5-(but-3-en-1-ynyl)thiophene, 2775
- C₁₂H₇ClOS**
2-(Buta-1,3-diynyl)-5-(4-chloro-3-hydroxybut-1-ynyl)thiophene, 2776
- C₁₂H₈N₂O**
1-Formyl-*β*-carboline, 7898
- C₁₂H₈N₂O₄**
Picrasidine V, 17313

- C₁₂H₈O**
Capillin, 3122
Dibenzofuran, 5380
- C₁₂H₈OS**
cis-1-(2-Furyl)-4-(2-thienyl)-1-buten-3-yne, 8031
- C₁₂H₈O₂S₂**
Arctic acid, 1620
- C₁₂H₈O₄**
Bergapten, 2309
Isobergapten, 11249
Sphondin, 20156
Xanthotoxin, 22774
- C₁₂H₈O₅**
5-Methoxy-8-hydroxy-psoralen, 13968
- C₁₂H₈O₆**
Brevifolin, 2602
- C₁₂H₈S₂**
5-(3-Buten-1-ynyl)-2,2'-bithienyl, 2783
- C₁₂H₈S₃**
 α -Terthienyl, 21018
- C₁₂H₉NO₂**
Dictamine, 5445
Isodictamine, 11376
- C₁₂H₉NO₃**
Confusameline, 3975
Dictangustine A, 5456
Robustine, 18881
- C₁₂H₉NO₄**
Cheliensisamine, 3504
5-Hydroxy-3-amino-2-acetyl-1,4-naphthoquinone, 9778
- C₁₂H₉N₃O**
Carboline-1-carboxylic acid, amide, 3157
- C₁₂H₁₀**
Capillene, 3121
Neocapillene, 15354
- C₁₂H₁₀N₂**
Harman, 9234
- C₁₂H₁₀N₂O**
Harmol, 9236
1-Hydroxymethyl- β -carboline, 10479
Taraxacine A, 20692
- C₁₂H₁₀O**
1-Phenyl-2,4-hexadiyne-1-ol, 17123
- C₁₂H₁₀O₂**
Chimaphylin, 3526
- C₁₂H₁₀O₄**
5-Acetyl-7-hydroxy-2-methylbenzopyran- γ -one, 423
Aristolindiquinone, 1710
5-(2-Hydroxyphenoxymethyl)furfural, 10603
Liqcoumarin, 12903
3-Methoxy-7-methyljuglone, 14026
- Sappanin, 19346
- C₁₂H₁₀O₅**
Armilarisin A, 1742
Bis(5-formylfurfuryl)ether, 2452
2-Methyl-5-carboxymethyl-7-hydroxychromone, 14220
Murraxonin, 15112
- C₁₂H₁₀O₆**
Yunnngin A, 22953
- C₁₂H₁₁NO₃**
4-Ethoxycarbonyl-2-quinolinone, 7398
- C₁₂H₁₁NO₄**
2,3-Methylenedioxy-4,7-dimethoxyquinoline, 14364
- C₁₂H₁₁NO₅**
6,7-Dimethoxy-*N*-methyl-3,4-dioxo-1(2*H*)-isoquinolinone, 6260
- C₁₂H₁₂**
Agropyrene, 764
- C₁₂H₁₂N₂**
Dihydroharman, 5625
- C₁₂H₁₂N₂O**
Harmalol, 9233
- C₁₂H₁₂N₂O₂**
Cycloanthranilylproline, 4466
Lycoperodine 1, 13213
1,2,3,9-Tetrahydropyrrolo(2,1-*b*)quinazolin-1-carboxylic acid, 21079
- C₁₂H₁₂O**
Capillon, 3130
- C₁₂H₁₂O₂**
3-Butylidene-phalide, 2797
- C₁₂H₁₂O₃**
Anofinic acid, 1343
3-Butylidene-7-hydroxyphalide, 2796
Fomannoxin acid, 7855
Senkyunolide B, 19732
Senkyunolide C, 19733
Senkyunolide E, 19735
- C₁₂H₁₂O₄**
5,7-Dihydroxy-2,6,8-trimethylchromone, 6167
Eugenitin, 7520
Hispolon, 9567
Isoeugenitin, 11419
Polygonolide, 17648
- C₁₂H₁₂O₅**
2-Methyl-5-carboxymethyl-7-hydroxy-chromanone, 14219
- C₁₂H₁₂O₅**
Schinicomarin, 19467
6,7,8-Trimethoxy-2*H*-1-benzopyran-2-one, 21893
5,6,7-Trimethoxycoumarin, 21905
- 5,7,8-Trimethoxycoumarin, 21906
- C₁₂H₁₂O₆**
Apodophyllone, 1531
8-Hydroxy-5,6,7-trimethoxycoumarin, 10786
- C₁₂H₁₃N**
2-*n*-Propylquinoline, 17940
- C₁₂H₁₃NO₂**
Shihunine, 19803
- C₁₂H₁₃NO₃**
Nigellimine *N*-oxide, 15569
Nirurine, 15626
Oleracein E, 16078
Salsoline A, 19197
- C₁₂H₁₃NO₄**
Cherianoine, 3512
- C₁₂H₁₃NO₅**
4-[2-(Methoxycarbonyl)anilino]-4-oxobutanoic acid, 13872
- C₁₂H₁₄N₂**
Calligonine, 2977
Eleagnine, 6736
- C₁₂H₁₄N₂O**
Dehydrobufotenine, 4884
Shihunidine, 19802
Tetrahydroharmol, 21071
- C₁₂H₁₄N₂O⁻**
Nigeglamine, 15562
- C₁₂H₁₄N₂OS₂**
Methoxybrassinin, 13861
- C₁₂H₁₄N₂O₂**
Abrine, 13
Cyclo-(Phe-Ala), 4526
N-Formylcytisine, 7900
- C₁₂H₁₄N₂O₃**
L-Phenylalanyl-*L*-serine anhydride, 17095
- C₁₂H₁₄N₂O₄**
Cyclo-(*D*-seryl-*L*-tyrosyl), 4535
- C₁₂H₁₄N₂O₄S**
Bufothionine, 2727
- C₁₂H₁₄O**
Capillanol, 3116
4,7-Dimethyl-1-tetralone, 6413
- C₁₂H₁₄O₂**
Bruguierol A, 2680
3-Butyl-phthalide, 2803
4-(3,4-Dimethoxyphenyl)-but-1,3-diene, 6277
6-Hydroxy-8-methyl-2,2-dimethyl-2*H*-benzopyran, 10484
Lachnophyllol acetate, 12430
Ligustilide, 12825
2-Methyl-6-(3-methyl-2-butenyl)benzo-1,4-quinone, 14592
Neoligustilide, 15427

- C₁₂H₁₄O₃**
 Acetylugenol, 391
 Bruguierol B, 2681
 Bruguierol C, 2682
 3,5-Dimethyl-8-methoxy-3,4-dihydroisocoumarin, 6369
 (Z)-6,7-Epoxy-6,7-dihydrologustilide, 7071
 Ethyl *p*-methoxy-*cis*-cinnamate, 7460
 Ethyl-*p*-methoxycinnamate, 7474
 3-Hydroxy-2-methyl-5-(3-methyl-2-butenyl)-benzo-1,4-quinone, 10508
 8-Methoxy-2,2-dimethyl-2*H*-chromen-6-ol, 13917
 2-Methoxy-6-prenyl-1,4-benzoquinone, 14076
 Narchinol A, 15264
 Senkyunolide F, 19736
n-Valerophenone-*O*-carboxylic acid, 22322
- C₁₂H₁₄O₄**
 Apiole, 1520
 Diethylphthalate, 5502
 2,3-Dihydro-5,7-dihydroxy-2,6,8-trimethyl-4*H*-1-benzopyran-4-one, 5598
 4,7-Dihydroxy-3-butylphthalide, 5782
 Dillapiol, 6193
 3,5-Dimethyl-8-hydroxy-7-methoxy-3,4-dihydroisocoumarin, 6361
 Phomapyrone D, 17177
 Senkyunolide D, 19734
 Tetrahydropiperic acid, 21078
 Z-3-(2,4,5-Trimethoxyphenyl)-2-propenal, 21929
- C₁₂H₁₄O₅**
 Mono-*p*-coumaroyl glyceride, 14922
trans-Sinapic acid methylester, 19916
 2,4,5-Trimethoxycinnamic acid, 21901
 3,4,5-Trimethoxy cinnamic acid, 21902
 1-(2,4,5-Trimethoxyphenyl)-1,2-propanedione, 21928
- C₁₂H₁₄O₆**
 1-*O*-Caffeoylglycerol, 2907
- C₁₂H₁₄O₈**
 Uralenneoside, 22240
- C₁₂H₁₅ClO₃**
 Senkyunolide L, 19741
- C₁₂H₁₅NO₃**
 Hydrocotarnine, 9709
N-Methylcorydaldine, 14251
 Uncinine, 22214
- C₁₂H₁₅NO₄**
 (-)-3-Carboxy-1,1-dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline, 3169
 (-)-3-Carboxy-1,1-dimethyl-7,8-dihydroxy-1,2,3,4-tetrahydroisoquinoline, 3170
 Cotarnine, 4129
- Desmodimine, 5267
- C₁₂H₁₅NO₈**
 4-Hydroxypyridyl-3-oic acid 4-*O*-glucopyranoside, 10670
- C₁₂H₁₆N₂**
 3,4-Dihydro-6,7-dimethoxy-2-methylisoquinoline, 5602
N,N-Dimethyltryptamine, 6418
- C₁₂H₁₆NO₂⁺**
 2-Methyl-1,2,3,4-tetrahydro- β -carboline, 14747
- C₁₂H₁₆N₂O**
 Bufotenine, 2726
N,N-Dimethyltryptamine *N*-oxide, 6420
 5-Methoxy-*N*-methyltryptamine, 14038
N-Methylcytisine, 14279
- C₁₂H₁₆O₂**
 Benzyl *D*-2-methylbutyrate, 2295
 3(*S*)-3-Butyl-4,5-dihydrophthalide, 2791
 Carvacrol acetate, 3232
 β -Phenylethyl isobutanoate, 17116
 Thymyl acetate, 21366
 7-Trinoreudesm-4(15),8-dien-1 β -ol-7-one, 21981
- C₁₂H₁₆O₃**
 1-Allyl-2,4,5-trimethoxy-benzene, 957
 α -Asarone, 1834
 β -Asarone, 1835
 (*E*)-4-(3,4-Dimethoxyphenyl)-but-3-en-1-ol, 6279
 3,7-Dimethyl-8-hydroxy-6-methoxyisochroman, 6362
 Elemicin, 6745
trans-Isoelemicin, 11408
 2-Methoxy-6-prenylhydroquinone, 14077
 Primin, 17857
 Senkyunolide G, 19737
 Senkyunolide K, 19740
- C₁₂H₁₆O₄**
 Acoramone, 561
 Aspidinol, 1897
 (Z)-4,5-Dihydro-6,7-*trans*-dihydroxy-3-butylidene phthalide, 5589
 (Z)-4,5-Dihydro-6,7-*cis*-dihydroxy-3-butylidene phthalide, 5590
 3,7-Dimethyl-1,8-dihydroxy-6-methoxyisochroman, 6340
cis-1',2'-Epoxyasarone, 7056
 Erigerenone A, 7255
 Erigerenone C, 7257
 Isoacoramone, 11194
 Pogostone, 17602
 Senkyunolide H, 19738
- C₁₂H₁₆O₅**
 3,4,5-Trimethoxydihydrocinnamic acid, 21907
- C₁₂H₁₆O₇**
 Arbutin, 1618
C- β -*D*-Glucopyranosyl-2,6-dihydroxyl benzene, 8620
- C₁₂H₁₆O₈**
 Dianthoside, 5371
 Phlorin, 17171
- C₁₂H₁₇N**
 Nigrifactin, 15571
- C₁₂H₁₇NO**
 2,3,4-Trimethyl-5-phenyloxazolidine, 21973
- C₁₂H₁₇NO₂**
 1-Methyl-corypalline, 14252
O-Methyl-corypalline, 14253
 Salsolidine, 19195
- C₁₂H₁₇NO₃**
 Maokonine, 13543
- C₁₂H₁₇NO₅**
 Radicamine A, 18524
- C₁₂H₁₇NO₆**
 Deidaclin, 4988
- C₁₂H₁₇NO₇**
 Volkenin, 22608
- C₁₂H₁₇NO₈**
 Gynocardin, 9114
- C₁₂H₁₇N₃O₄**
 Agaritine, 701
- C₁₂H₁₇N₄OS⁺**
 Vitamin B₁, 22554
- C₁₂H₁₈**
 3,5-Dimethylbutylbenzene, 6329
 1-Phenylhexane, 17124
 Pregeijerene B, 17780
- C₁₂H₁₈NO₃⁺**
 4-Hydroxybenzoyl choline, 9822
- C₁₂H₁₈N₂O**
 Gramine methohydroxide, 8972
- C₁₂H₁₈N₂O₂**
 Isokuraramine, 11473
 Kuraramine, 12340
- C₁₂H₁₈N₂O₅**
L- γ -Glutamyl-*L*-hypoglycin, 8776
- C₁₂H₁₈N₂O₁₂**
 Cibarian, 3634
 Coronarian, 4078
- C₁₂H₁₈O**
 (+)-3,4,4*aR*,7,8,8*aR*-Hexahydro-5,8 α -dimethylnaphthalen-2(1*H*)-one, 9499
- C₁₂H₁₈O₂**
 Cnidilide, 3855
 Cnidium lactone, 3858
 7,7-Dimethyl-2-methylenebicyclo[3.1.1]-heptan-6-ol acetate, 6372

- Isocnidilide, 11336
 1,8-Menthadien-10-ol acetate, 13728
 4-Methylene-1-isopropyl-bicyclo[3.1.0]-hexan-3-ol acetate, 14386
 2-Methyl-6-methylene-2,7-octadienol acetate, 14598
 6-Methyl-7-(3-oxobutyl)-bicyclo[4.1.0]heptan-3-one, 14642
 (+)-Myrtenyl acetate, 15222
 Neocnidilide, 15370
- C₁₂H₁₈O₃**
D-8-Acetoxyarvotanacetone, 139
 Buergerinin A, 2702
 1-(3-Hydroxyphenyl)-hexane-2,5-diol, 10625
 (-)-Jasmonic acid, 11825
 Oxyphyllenone A, 16464
 Oxyphyllenone B, 16465
 Sedanonic acid, 19648
- C₁₂H₁₈O₄**
 Allixin, 926
 Erigerenone B, 7256
 2-(1-Ethoxy-2-hydroxy)propyl-4-methoxyphenol, 7406
 (1*R*,2*R*)-5'-Hydroxyjasmonic acid, 10269
 Senkyunolide J, 19739
 Senkyunolide N, 19743
- C₁₂H₁₈O₅**
 3-*n*-Butyl-3-hydroxy-4,5,6,7-tetrahydro-6,7-dihydroxy phthalide, 2794
 Drummondol, 6607
- C₁₂H₁₈O₈**
 Opuntiaester, 16157
 Osmundalin, 16256
- C₁₂H₁₉NO₃**
N-Methylmescaline, 14583
- C₁₂H₁₉N₃O**
 Alchorneine, 871
- C₁₂H₂₀NO₂⁺**
 Salicifoline, 19183
- C₁₂H₂₀N₂O**
 (+)-Ammodendrine, 1068
N-Methyltetrahydrocytisine, 14749
- C₁₂H₂₀N₂O₂S₂**
 Aglaidithioduline, 736
- C₁₂H₂₀O₂**
 Acetylborneol, 336
 Aleprylic acid, 885
L- β -Artemisia alcohol acetate, 1794
 Bornyl acetate, 2557
 Crocusatin G, 4259
 Dihydrocarveol acetate, 5556
 Ethyl geranate, 7442
 Geranyl acetate, 8313
- Isobornyl acetate, 11261
 Linalyl acetate, 12850
 4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol-acetate, 14601
 Neryl acetate, 15512
 Terpinyl acetate, 20999
- C₁₂H₂₀O₃**
 Cucurbitic acid, 4314
 Gardenone, 8230
 Vulgarole, 22620
- C₁₂H₂₀O₄**
 Crocusatin H, 4260
 Dimethyl camphorate, 6330
 (1*R*,4*S*)-1-Hydroperoxy-*p*-menth-2-en-8-ol acetate, 9732
- C₁₂H₂₀O₇**
 Clandonensine, 3785
- C₁₂H₂₀O₈**
 (3*R*,5*R*)-3-(β -*D*-Glucopyranosyloxy)-5-hexanolide, 8689
 Parasorboside, 16658
- C₁₂H₂₁NO**
N-Isobutyl-(2*E*,4*E*)-octadienamamide, 11283
N-Isobutyl-(2*Z*,4*E*)-octa-2,4-dienamide, 11284
- C₁₂H₂₁NO₁₀S₂**
 2-Hydroxypent-4-enylglucosinate, 10598
- C₁₂H₂₂**
 1,1'-Bicyclohexyl, 2353
- C₁₂H₂₂NO₉S₃⁻**
 Glucoerucin, 8595
- C₁₂H₂₂NO₁₀S₃⁻**
 Glucoraphanin, 8752
- C₁₂H₂₂NO₁₁S₃⁻**
 Glucoerysolin, 8596
- C₁₂H₂₂N₂O₂**
 Cyclo-(Leu-Ile), 4506
- C₁₂H₂₂O**
 Cyclododecanone, 4489
 8-Methyl-5-isopropyl-6,8-nonadiene-2-one, 14538
- C₁₂H₂₂O₂**
 Citronellyl acetate, 3769
 Decanoylactaldehyde, 4837
 γ -Dodecalactone, 6540
cis-4-Dodecenoic acid, 6543
 Dodecenoic acid, 6544
 Linderic acid, 12873
 Menthyl acetate, 13779
- C₁₂H₂₂O₄**
 Dimethyl sebacate, 6406
- C₁₂H₂₂O₅**
 Mioporosidegenin, 14878
- C₁₂H₂₂O₆**
 (E)-2-Hexenyl- β -*D*-glucopyranoside, 9527
 (Z)-3-Hexenyl- β -*D*-glucopyranoside, 9528
- C₁₂H₂₂O₁₀**
 Methyl β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 14145
 Robinobiose, 18860
- C₁₂H₂₂O₁₁**
 Cellobiose, 3383
 Gentiobiose, 8300
 Isomaltose, 11523
 Lactose, 12440
 Maltose, 13454
 Sophorose, 20101
 Sucrose, 20446
 Timobiose, 21393
 Trehalose (α : α), 21504
 Trehalose (α : β), 21505
 Trehalose (β : β), 21506
 Turanose, 22118
- C₁₂H₂₃NO₃**
 (\pm)-*threo*-*N*-Isobutyl-4,5-dihydroxy-2*E*-octenamamide, 11271
- C₁₂H₂₃NO₉**
 2-*O*- α -*D*-Galactopyranosyl-1-deoxynojirimycin, 8052
 6-*O*- α -*D*-Galactopyranosyl-1-deoxynojirimycin, 8053
 4-*O*- β -*D*-Glucopyranosyl-1-deoxynojirimycin, 8614
- C₁₂H₂₄**
 Nonyl cyclopropane, 15699
- C₁₂H₂₄O**
 Lauric aldehyde, 12570
- C₁₂H₂₄O₂**
n-Decyl acetate, 4865
 Lauric acid, 12569
- C₁₂H₂₄O₆**
n-Hexyl- β -*D*-glucopyranoside, 9531
- C₁₂H₂₄O₇**
 Hexane-1,5-diol-1-*O*- β -*D*-glucopyranoside, 9513
- C₁₂H₂₆**
 Dodecane, 6541
- C₁₂H₂₆O**
 Dodecanol, 6542
- C₁₂H₃₁NO**
 Nominine, 15658
- C₁₃H₆**
 1-Tridecene-3,5,7,9,11-pentyne, 21622
- C₁₃H₈**
 1,3*E*-Tridecadiene-5,7,9,11-tetrayne, 21604
 1,3*Z*-Tridecadiene-5,7,9,11-tetrayne, 21605
 1,11*E*-Tridecadiene-3,5,7,9-tetrayne, 21606
 1,11*Z*-Tridecadiene-3,5,7,9-tetrayne, 21607

- C₁₃H₈O₃**
5-Hydroxyxanthone, 10831
7-Hydroxyxanthone, 10832
- C₁₃H₈O₄**
2'-Acetylangelicin, 316
1,5-Dihydroxyxanthone, 6181
1,6-Dihydroxyxanthone, 6182
1,7-Dihydroxyxanthone, 6183
- C₁₃H₈O₅**
Gentisein, 8306
Mesuaxanthone B, 13809
1,3,5-Trihydroxyxanthone, 21866
- C₁₃H₈O₆**
Norathyriol, 15715
Norbellidifodin, 15718
Norswertianin, 15799
Phelligridin A, 17059
- C₁₃H₈O₇**
3,4,8,9,10-Pentahydroxydibenzo[b,d]pyran-6-one,
16845
- C₁₃H₈O₈**
Brevifolincarboxylic acid, 2603
Phyllanthusiin E, 17221
- C₁₃H₈S**
2-(Ethenylbutadiynyl)-5-(propinyl)-thiophene,
7391
- C₁₃H₈S₂**
Thiarubrin A, 21328
Thiarubrin B, 21329
- C₁₃H₉ClO**
5-Chloro-2-(octa-2,4,6-triynylidene)-5,6-dihydro-
2*H*-pyran, 3564
- C₁₃H₉ClOS**
2-(4-Chloro-3-hydroxybut-1-ynyl)-5-(penta-1,3-
diynyl) thiophene, 3558
- C₁₃H₉NO**
3-Formylcarbazole, 7897
- C₁₃H₉NO₂**
Mukonal, 15027
- C₁₃H₉NO₃**
Clausine O, 3802
- C₁₃H₉NO₄**
Kokusagine, 12253
1,2,3-Trihydroxyacridone, 21687
- C₁₃H₉NO₅**
Megistoquinone I, 13651
- C₁₃H₁₀**
(*E,E*)-1,3,5-Tridecatriene-7,9,11-triyn, 21617
(*E,Z*)-1,3,5-Tridecatriene-7,9,11-triyn, 21618
(*Z,E*)-1,3,11-Tridecatriene-5,7,9-triyn, 21619
(*Z,Z*)-1,3,11-Tridecatriene-5,7,9-triyn, 21620
- C₁₃H₁₀N₂O**
1-Acetyl- β -carboline, 344
- C₁₃H₁₀N₂O₂**
Arenarine D, 1662
 β -Carboline-1-carboxylic acid, methyl ester, 3158
1-Formyl-4-methoxy- β -carboline, 7908
- C₁₃H₁₀N₂O₃**
Begonanline, 2210
Taraxacine B, 20693
- C₁₃H₁₀O**
Atractylodin, 1969
Ponticaepoxide, 17719
- C₁₃H₁₀OS₃**
 α -Terthienyl methanol, 21019
- C₁₃H₁₀O₂**
Annuaadiepoide, 1334
Capillarin, 3117
Dehydrosafynol, 4966
- C₁₃H₁₀O₃**
Mycosinol, 15142
- C₁₃H₁₀O₄**
Visnagin, 22553
- C₁₃H₁₀O₅**
2,4'-Dihydroxy-5-carboxy-dibenyl ether, 5786
Hispidin, 9561
Iriflophenone, 11153
Isopimpinellin, 11601
Khellol, 12222
Pimpinellin, 17375
2,4,6,3'-Tetrahydroxybenzophenone, 21082
- C₁₃H₁₀O₆**
Maclurin, 13296
- C₁₃H₁₀O₈**
Tricozarin A, 21597
- C₁₃H₁₀O₉**
4,8-Dimethoxy-7-hydroxy-2-oxo-2*H*-1-
benzopyran-5,6-dicarboxylic acid, 6249
- C₁₃H₁₁N**
3-Methylcarbazole, 14216
- C₁₃H₁₁NO**
2-Hydroxy-3-methylcarbazole, 10478
- C₁₃H₁₁NO₃**
 γ -Fagarine, 7703
Iso- γ -fagarine, 11424
Melicarpinone, 13674
6-Methoxy dictamnine, 13904
- C₁₃H₁₁NO₄**
Haplopin, 9226
- C₁₃H₁₂**
(*E,E,E*)-1,3,5,11-Tridecatetraene-7,9-diyne,
21613
(*E,Z,E*)-1,3,5,11-Tridecatetraene-7,9-diyne,
21614
(*Z,E,E*)-1,3,5,11-Tridecatetraene-7,9-diyne,
21615
- C₁₃H₁₂N₂O**
Harmine, 9235
1-Methoxymethyl- β -carboline, 14007
- C₁₃H₁₂N₂O₂**
Picrasidine P, 17308
- C₁₃H₁₂O**
Methoxycapillen, 13870
- C₁₃H₁₂O₂**
Atractylodinol, 1970
Dehydrotremetone, 4976
4,4'-Dihydroxydiphenyl methane, 5866
Goniothalamine, 8947
2-(Hexa-2,4-diyne-1-ylidene)-1,6-dioxaspiro[4,4]-
non-3-ene, 9496
Safynol, 19122
- C₁₃H₁₂O₃**
Euparin, 7578
Garcibiphenyl A, 8204
Goniothalamine epoxide, 8948
o-(*o*-Methoxyphenoxy)phenol, 14053
6-(2-methoxy-*Z*-vinyl)-7-methyl-pyranocoumarin,
14104
Mukagolactone, 15026
Nepodin, 15489
- C₁₃H₁₂O₄**
Aloesone, 980
Altholactone, 1008
6-(*trans*-1-Buten-3-oxy)-7-methoxycoumarin,
2780
Cassiachromone, 3279
Goniobutenolide A, 8932
Goniobutenolide B, 8933
Hibicuslide C, 9538
Methyl piperate, 14678
- C₁₃H₁₂O₅**
Xanthocerin, 22758
- C₁₃H₁₂O₆**
Nigrolineaisoflavone A, 15572
- C₁₃H₁₂O₈**
Caffeoyl malic acid, 2912
- C₁₃H₁₂O₉**
Monocaffeoyltartaric acid, 14920
- C₁₃H₁₂O₁₁**
Mucic acid 1,4-lactone 2-*O*-gallate, 15011
Mucic acid 1,4-lactone 3-*O*-gallate, 15012
Mucic acid 1,4-lactone 5-*O*-gallate, 15013
- C₁₃H₁₃ClO₃**
8-Chlorogoniodiol, 3555
- C₁₃H₁₃NO**
(*E*)-3-(3'-Methyl-2'-butenylidene)-2-indolinone,
14181
N-(3-Phenylpropanoyl)pyrrole, 17130
- C₁₃H₁₃NO₂**

- Sarmentamide A, 19368
- C₁₃H₁₃NO₅**
Glycocitridine, 8824
Melisemine, 13685
- C₁₃H₁₃N₂O⁺**
6-Methoxy-2-methyl- β -carbolinium (cation), 14008
- C₁₃H₁₄N₂O**
Harmaline, 9232
- C₁₃H₁₄N₂O₃**
Nigellicine, 15568
- C₁₃H₁₄N₂O₈**
Miraxanthin II, 14880
- C₁₃H₁₄O**
Carlinoxide, 3200
- C₁₃H₁₄O₂**
Tremetone, 21507
- C₁₃H₁₄O₃**
6-Acetyl-2,2-dimethylchroman-4-one, 383
6-Acetyl-5-hydroxy-2-isopropenyl-2,3-dihydrobenzofuran, 418
Chuanxiongol, 3631
(\pm)-2,3-Dihydro-2-(1-methylethenyl)-5-benzofurancarboxylic acid methyl ester, 5676
5,6-Dimethoxy-2-isopropenylbenzofuran, 6255
2,2-Dimethyl-2*H*-1-benzopyran-6-carboxylic acid methyl ester, 6321
Eupatoriochromene, 7592
7-Hydroxy-4-isopropyl-6-methyl coumarin, 10263
2-Hydroxy-5-methoxy-6-(3-methylbut-3-en-1-ynyl)benzylalcohol, 10418
6-Hydroxytremetone, 10775
Toxol, 21486
- C₁₃H₁₄O₄**
1'-Acetoxychavicol acetate, 140
6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-2,3-dihydrobenzofuran, 416
6-Acetyl-2-hydroxymethyl-2-methylchroman-4-one, 424
(+)-9-Deoxygoniopyrone, 5179
Deoxygoniopyrone A, 5180
(6*R*,7*R*,8*R*)-Goniodiol, 8934
Goniofupryone A, 8938
(+)-Gynunone, 9122
7-Hydroxy-2-(2-hydroxy)propyl-5-methylbenzopyran- γ -one, 10217
(2'*S*)-7-Hydroxy-2-(2'-hydroxypropyl)-5-methylchromone, 10218
Isocorylifonol, 11345
7-Methoxyanofinic acid, 13840
Pedicellin, 16762
- C₁₃H₁₄O₅**
(5*S*,6*R*,7*R*,8*R*)-Goniotriol, 8949
(5*S*,6*R*,7*S*,8*S*)-Goniotriol, 8950
(2'*S*)-7-Hydroxy-5-hydroxymethyl-2-(2'-hydroxypropyl) chromone, 10205
5-Methanol-7-hydroxy-2,2-dimethyl-2*H*-1-chromene-6-carboxylic acid, 13820
- C₁₃H₁₄O₈**
(-)-4-(*E*)-Caffeoyl-*L*-threonic acid, 2928
- C₁₃H₁₄O₉**
Norbergenin, 15719
- C₁₃H₁₄O₁₂**
Mucic acid 2-*O*-gallate, 15009
- C₁₃H₁₅NO**
Argutine A, 1676
(1-Oxo-3-phenyl-2*E*-propenyl)pyrrolidine, 16406
Zanthonitrile, 22968
- C₁₃H₁₅NO₂**
Allosecurinine, 940
Securinine, 19639
Virosecurinine, 22529
- C₁₃H₁₅NO₃**
ent-Phyllanthidine, 17214
- C₁₃H₁₅NO₆**
L-*O*-Caffeoylhomoserine, 2909
- C₁₃H₁₅O₈**
Demethoxybergenin, 5042
- C₁₃H₁₅O₁₃⁻**
Turgorin, 22122
- C₁₃H₁₆N₂**
*N*₆-Methyltetrahydroharman, 14750
- C₁₃H₁₆N₂O**
2-Methyl-6-methoxy-1,2,3,4-tetrahydro- β -carboline, 14590
*N*₆-Methyltetrahydroharmol, 14751
Tetrahydroharmine, 21070
- C₁₃H₁₆N₂O₂**
(+)-*N*₆-Methyl tryptophan methyl ester (*S*), 14795
- C₁₃H₁₆N₂O₄**
Delamide, 4992
- C₁₃H₁₆O₂**
2-Hexenyl benzoate, 9526
4-Hydroxy-3-(3-methyl-2-butenyl)acetophenone, 10472
Vinyl-2,2-dimethyl-3-phenyl-propionate, 22510
- C₁₃H₁₆O₃**
4-Hydroxy-3-(2-hydroxy-3-isopentenyl)acetophenone, 10182
4-Methoxy-3-(3-methyl-2-butenyl)-benzoic acid, 14004
2-(1-Oxopentyl)-benzoic acid methyl ester, 16404
Precocene II, 17776
- 4-(2,4,5-Trimethoxyphenyl)-but-1,3-diene, 21924
- Wilforonide, 22689
- C₁₃H₁₆O₄**
Asarumin B, 1837
Proglobeflowery acid, 17902
- C₁₃H₁₆O₅**
Descurainolide A, 5246
Eugenone, 7524
4-Hydroxy-2-(2,4,5-trimethoxyphenyl)-2*E*-butenal, 10801
Methyl 3,4,5-trimethoxycinnamate, 14791
Sinapic acid ethyl ester, 19913
- C₁₃H₁₆O₆**
Cardiobutanolide, 3189
- C₁₃H₁₆O₇**
Helicide, 9303
- C₁₃H₁₆O₈**
1-*O*-(4-Hydroxybenzoyl)- β -*D*-glucose, 9824
- C₁₃H₁₆O₉**
3-Carboxy-4-hydroxy-phenoxy glucoside, 3174
1-*O*-Galloyl- α -*L*-rhamnose, 8118
Protocatechuic acid-3-glucoside, 17966
- C₁₃H₁₆O₁₀**
1-*O*-Galloyl-glucose, 8108
6-*O*-Galloyl-glucose, 8109
- C₁₃H₁₇NO**
Paniculidine C, 16614
- C₁₃H₁₇NO₂**
Dihydrosecurinine, 5712
14,15-Dihydrovirosecurinine, 5738
- C₁₃H₁₇NO₃**
Lophophorine, 13001
Securinol A, 19640
Securinol B, 19641
Securinol C, 19642
- C₁₃H₁₇NO₄**
2,6-Di-*C*-methyl-nicotinic acid 3,5-diethyl ester, 6378
- C₁₃H₁₈N₂O**
Bufotenidine, 2725
N,N-Dimethyl-5-methoxy tryptamine, 6370
- C₁₃H₁₈N₂O₂**
5-Methoxy-*N,N*-dimethyl-tryptamine *N*₆-oxide, 13920
- C₁₃H₁₈N₂O₄**
*N*⁵-(4-Methoxyphenyl)methyl-*L*-glutamine, 14061
- C₁₃H₁₈N₂O₇**
Justiciamide, 11976
- C₁₃H₁₈O₂**
Arteamisinine I, 1782
3-Keto- β -ionone, 12203
- C₁₃H₁₈O₃**
2-Methoxy-1-*O*-methyl-6-prenylhydroquinone,

- 14031
2-Methoxy-4-*O*-methyl-6-prenylhydroquinone,
14032
- C₁₃H₁₈O₄**
Baeckeol, 2097
- C₁₃H₁₈O₅**
Monascusone A, 14915
- C₁₃H₁₈O₆**
Benzyl alcohol *O*- β -*D*-glucopyranoside, 2276
- C₁₃H₁₈O₇**
Gastrodin, 8237
Homoarbutin, 9594
3-Hydroxybenzyl-1-*O*- β -*D*-glucopyranoside,
9840
4-Hydroxybenzyl-*O*- β -*D*-glucopyranoside, 9841
Isohomoarbutin, 11456
2-Methoxyphenyl β -*D*-glucopyranoside, 14059
Orcinol glucoside, 16172
Salicin, 19184
- C₁₃H₁₈O₈**
3,4-Dihydroxybenzyl alcohol-4-glucoside, 5769
4-Hydroxy-3-methoxyphenol
 β -*D*-glucopyranoside, 10432
Isotachioside, 11726
- C₁₃H₁₈O₉**
Opuntioside, 16160
- C₁₃H₁₉NO₂**
6,7-Dihydroxy-1,1-dimethyl-*N*-ethyl-1,2,3,4-
tetrahydroisoquinoline, 5853
Dioscorine, 6439
Kinganone, 12228
Lucidulinone, 13051
Pectenine, 16746
- C₁₃H₁₉NO₃**
*O*⁷-Angeloylretronecine, 1233
*O*⁹-Angeloylretronecine, 1234
Rivularine, 18854
- C₁₃H₁₉NO₄**
Tuberostemospironine, 22090
- C₁₃H₂₀N₂O**
N,N-Dimethyltryptamine-methoxyhydroxide, 6419
- C₁₃H₂₀O**
 α -Ionone, 11122
 β -Ionone, 11123
- C₁₃H₂₀O₂**
Actinidol, 584
3-Hydroxy- β -ionone, 10233
(3*R*,6*R*,7*E*)-3-Hydroxy-4,7-megastigmadien-3-
one, 10366
(6*E*,9*S*)-9-Hydroxy-4,6-megastigmadien-3-one,
10367
(6*Z*,9*S*)-9-Hydroxy-4,6-megastigmadien-3-one,
10368
- (6*R*,7*E*,9*R*)-9-Hydroxy-4,7-megastigmadien-3-
one, 10369
(7*E*,9*ξ*)-9-Hydroxy-5,7-megastigmadien-4-one,
10370
Theaspirone, 21291
- C₁₃H₂₀O₃**
Annuionone D, 1335
Apocynol A, 1527
(3*S*,5*R*,6*S*,7*E*)-5,6-Epoxy-3-hydroxy-7-
megastigmen-9-one, 7123
Grasshopperketone, 8983
4'-(4"-Hydroxy-3"-methylbutyloxy)-2-
phenylethanol, 10474
Icarisidin B₁, 10956
cis-Methyl jasmonate, 14540
Norannuic acid, 15709
Vomifoliol, 22615
- C₁₃H₂₀O₄**
Apocynol B, 1528
13-Carboxy-blumenol C, 3165
(1*R*,2*R*)-Methyl-5'-hydroxyjasmonate, 14509
- C₁₃H₂₀O₆**
threo-3-(4-Hydroxy-3,5-dimethoxyphenyl)-3-
ethoxypropane-1,2-diol, 10037
- C₁₃H₂₁NO₂**
Tigloidine, 21372
- C₁₃H₂₁NO₃**
Macrophylline, 13320
- C₁₃H₂₁NO₄**
Meteloidine, 13819
- C₁₃H₂₂**
1,4,7-Tridecatriene, 21616
- C₁₃H₂₂O**
Dihydro- β -ionone, 5646
- C₁₃H₂₂O₂**
(3*R*,6*R*,7*E*,9*R*)-3,9-Dihydroxy-4,7-megastigma-
diene, 5956
(3*S*,7*E*,9*R*)-3,9-Dihydroxy-5,7-megastigmadiene,
5957
(6*R*,9*R*)-9-Hydroxy-4-megastigmen-3-one, 10371
3-Hydroxymegastigmen-5-en-9-one, 10372
(*S*)-9-Hydroxymegastigmen-5-en-4-one, 10373
Neryl propionate, 15515
- C₁₃H₂₂O₃**
Annuionone E, 1336
Annuionone G, 1338
(2*R*,6*R*,9*R*)-2,9-Dihydroxy-4-megastigmen-3-one,
5958
(3*S*,5*R*,6*S*,7*E*,9*R*)-5,6-Epoxy-3,9-dihydroxy-7-
megastigmene, 7079
Methyl dihydrojasmonate, 14296
- C₁₃H₂₂O₄**
Annuionone F, 1337
- C₁₃H₂₄N₂O**
Cuscohygrine, 4417
- C₁₃H₂₄O₂**
Megastigmen-5-ene-3,9-diol, 13646
- C₁₃H₂₄O₃**
11-Hydroxy-9-tridecenoic acid, 10784
7-Megastigmene-3,6,9-triol, 13648
- C₁₃H₂₄O₄**
Megastigmenetetrol, 13647
(3*S*,5*R*,6*R*,7*E*,9*R*)-3,5,6,9-Tetrahydroxy-7-
megastigmene, 21124
- C₁₃H₂₄O₉**
Methyl di- α -*L*-rhamnoside, 14326
Methyl-(3*R*,5*R*)-5-hydroxy-3-(β -*D*-glucopyra-
nosyloxy)-hexanoate, 14505
Methyl-(3*S*,5*S*)-5-hydroxy-3-(β -*D*-glucopyra-
nosyloxy) hexanoate, 14506
- C₁₃H₂₄O₁₁**
Ethane-1,2-diol 1-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)-
 β -*D*-glucopyranoside, 7388
- C₁₃H₂₆**
Tridecene, 21621
- C₁₃H₂₆O**
2-Methyl-dodecane-5-one, 14330
2-Tridecanone, 21612
- C₁₃H₂₆O₂**
n-Undecyl acetate, 22224
Tridecanoic acid, 21611
2-Undecyl acetate, 22225
- C₁₃H₂₆O₄S**
Undecyl sulfonyl acetic acid, 22228
- C₁₃H₂₈**
2,4-Dimethyl-undecane, 6421
3,6-Dimethyl-undecane, 6422
2-Methyl-5-propyl nonane, 14693
n-Tridecane, 21610
2,5,6-Trimethyldecane, 21953
- C₁₃H₂₈O₂**
1,1-Diethoxy-*n*-nonane, 5499
- C₁₃H₂₈O₄**
Homosenkyunolide H, 9618
Homosenkyunolide I, 9619
- C₁₄H₆O₈**
Ellagic acid, 6757
- C₁₄H₈N₂O**
Canthin-6-one, 3096
- C₁₄H₈N₂O₂**
Canthin-6-one 3-*N*-oxide, 3098
1-Hydroxycanthin-6-one, 9884
9-Hydroxycanthin-6-one, 9885
11-Hydroxycanthin-6-one, 9886
- C₁₄H₈N₂O₃**
9-Hydroxycanthin-6-one 3-*N*-oxide, 9887

- Tramesanguin, 21501
- C₁₄H₈O₂**
Anthraquinone, 1367
- C₁₄H₈O₃**
 α -Hydroxyanthraquinone, 9791
2-Hydroxyanthraquinone, 9792
- C₁₄H₈O₄**
Alizarin, 899
Chrysazin, 3599
Purpuroxanthin, 18224
- C₁₄H₈O₅**
Anthragallol, 1359
Purpurin, 18222
- C₁₄H₈O₆**
1,7-Dihydroxy-2,3-methylenedioxyxanthone, 6031
- C₁₄H₈O₉**
Luteic acid, 13125
- C₁₄H₉ClO₆**
7-Chloro-1,2,3-trihydroxy-6-methoxyxanthone, 3573
- C₁₄H₉NO₂**
Trisphaeridine, 22040
- C₁₄H₉NO₃**
Crinasiadine, 4238
Dianthalexine, 5366
- C₁₄H₉O₈S⁻**
1,3-Dihydroxy-5-methoxyxanthone-4-sulfonate, 6014
- C₁₄H₁₀N₂O₂**
3-(2'-Hydroxyphenyl)-4-(3*H*)-quinazolinone, 10643
- C₁₄H₁₀O**
Anthranol, 1365
- C₁₄H₁₀O₃**
Kvannin, 12395
- C₁₄H₁₀O₄**
Cyperaquinone, 4576
Dengibsin, 5128
2-(2,4-Dihydroxyphenyl)-6-hydroxybenzofuran, 6086
Drypearmoracein B, 6614
5-Hydroxy-1-methoxyxanthone, 10462
6-Hydroxy-7-methoxyxanthone, 10463
7-Hydroxy-8-methoxyxanthone, 10464
4,5-Methylenedioxy-4'-hydroxy-2-aldehyde-[1,1'-biphenyl], 14369
Moracin M, 14962
- C₁₄H₁₀O₅**
7-Benzoyloxy-6-oxo-2,4*E*-heptadiene-1,4-olide, 2261
7-Benzoyloxy-6-oxo-2,4*Z*-heptadiene-1,4-olide, 2262
- Buchanaxanthone, 2694
Crataequinone A, 4217
Densiflorolorin, 5133
1,3-Dihydroxy-2-methoxy xanthone, 6009
1,6-Dihydroxy-7-methoxyxanthone, 6010
1,7-Dihydroxy-3-methoxy xanthone, 6011
1,7-Dihydroxy-4-methoxyxanthone, 6012
2,7-Dihydroxy-1-methoxyxanthone, 6013
Isogentisin, 11436
Kigelonone, 12225
Mesuaxanthone A, 13808
Nor-rubrofusarin, 15791
1,3,6-Trihydroxy-8-methylxanthone, 21809
1,5,8-Trihydroxy-3-methylxanthone, 21810
- C₁₄H₁₀O₆**
Bellidifodin, 2220
Crataequinone B, 4218
Lespedezol H₁, 12704
Swertianin, 20510
1,3,7-Trihydroxyl-8-methoxyxanthone, 21762
1,3,5-Trihydroxy-2-methoxyxanthone, 21790
1,3,7-Trihydroxy-2-methoxyxanthone, 21791
1,3,8-Trihydroxy-2-methoxyxanthone, 21792
1,3,8-Trihydroxy-5-methoxyxanthone, 21793
- C₁₄H₁₀O₇**
Caloxanthone E, 3000
- C₁₄H₁₀O₈**
Methyl brevifolin carboxylate, 14160
Phyllanthusiin E methyl ester, 17222
- C₁₄H₁₀O₉**
m-Digallic acid, 5510
m-Digalloyl acid, 5511
p-Digalloyl acid, 5512
- C₁₄H₁₁NO₂**
3-Formyl-6-methoxycarbazole, 7907
1-Hydroxy-10-methylacridone, 10465
Methyl carbazole-3-carboxylate, 14217
Murrayanine, 15118
- C₁₄H₁₁NO₃**
Clausine E, 3795
Clausine I, 3798
Clausine M, 3800
Clausine N, 3801
Clausine Q, 3804
Griffithazanone B, 9005
Isoursuline, 11750
Lansine, 12489
- C₁₄H₁₁NO₄**
Clausine R, 3805
Griffithazanone A, 9004
2-Hydroxy-3-formyl-7-methoxycarbazole, 10126
Indigotisisocoumarin A, 11022
Penduline, 16802
- C₁₄H₁₁NO₅**
Melandrin, 13657
- C₁₄H₁₁NO₆**
Dianthramine, 5372
Precatorine, 17772
- C₁₄H₁₂N₂O**
1-Vinyl-4-methoxy- β -carboline, 22516
- C₁₄H₁₂N₂O₂**
Arenarine A, 1659
Arenarine C, 1661
1-Carboethoxy- β -carboline, 3156
 β -Carboline-1-propionic acid, 3159
Picrasidine I, 17301
- C₁₄H₁₂N₂O₃**
Dichotomine A, 5422
7-Hydroxy- β -carboline-1-propionic acid, 9890
- C₁₄H₁₂N₂O₄**
Dichotomine B, 5423
Peristrophine, 16965
- C₁₄H₁₂O₂**
Benzyl benzoate, 2280
o-Benzyl benzoic acid, 2281
Pinosylvin, 17420
- C₁₄H₁₂O₃**
Ammirin, 1067
Angenomalin, 1238
Benzyl salicylate, 2297
5,6-Dehydrokawain, 4936
Hibicutaiwanin, 9539
2'-Isopropyl-psoralen, 11630
Resveratrol, 18643
Seselin, 19784
2,4,4'-Trihydroxystilbene, 21849
4,5',8-Trimethyl psoralen, 21974
Xanthyletin, 22781
- C₁₄H₁₂O₄**
Cearoin, 3346
Cedrecoumarin A, 3349
Clematicinenol, 3822
Cudranin, 4337
Dihydrocyperaquinone, 5579
2,6-Dihydroxy-4-methoxybenzophenone, 5965
Eleutherol, 6753
4'-Hydroxy-5,6-dehydrokawain, 9974
5-Hydroxyseselin, 10710
Nakhsmyrin, 15241
Nodachenetin, 15644
Norbraylin, 15721
Obliquin, 15886
Oroselol, 16213
cis-Osthenone, 16259
trans-Osthenone, 16260
E-Piceatannol, 17278

- Suberenone, 20438
Wyerone acid, 22742
- C₁₄H₁₂O₅**
Clausenin, 3792
Khellin, 12221
Melodorinol, 13712
2-Methoxy-6-acetyl-7-methyljuglone, 13832
- C₁₄H₁₂O₆**
Ammiol, 1066
4,6,3',4'-Tetrahydroxy-2-methoxybenzophenone, 21125
- C₁₄H₁₂O₇**
Rheumin, 18767
- C₁₄H₁₂O₁₁**
Chebulic acid, 3492
- C₁₄H₁₃NO**
Murrayafoline A, 15117
- C₁₄H₁₃NO₂**
Carbalexin A, 3153
Carbalexin B, 3154
Carbalexin C, 3155
Clausine V, 3808
Flindersine, 7830
N-Salicylidene-salicylamine, 19188
- C₁₄H₁₃NO₃**
Isotaifine, 11727
- C₁₄H₁₃NO₄**
Isomaculosidine, 11518
Kokusaginine, 12254
Skimmianine, 20002
- C₁₄H₁₃NO₆**
E-Dimethyl rhoifolinate, 6404
Z-Dimethyl rhoifolinate, 6405
Lycoricidine, 13238
Megistoquinone II, 13652
- C₁₄H₁₃NO₇**
Furomegistine II, 8028
Lycoricidinol, 13239
- C₁₄H₁₄BrNO**
6-Bromo-2-(1,1-dimethyl-2-propenyl)-1H-indole-3-carbaldehyde, 2621
- C₁₄H₁₄N₂O**
1-Ethyl-4-methoxy-β-carboline, 7459
- C₁₄H₁₄N₂O₂**
Arenarine B, 1660
Picrasidine J, 17302
- C₁₄H₁₄O**
Tetradec-8,10,12-triyn-6-ene-3-one, 21047
- C₁₄H₁₄O₂**
Dihydropinosylvin, 5694
Ichthyothereol, 10959
Lunularin, 13085
- C₁₄H₁₄O₃**
- Aucuparin, 2005
Bis(4-hydroxybenzyl)ether, 2458
Bis(2-hydroxyphenyl)methyl ether, 2471
7-Demethylsuberosin, 5098
Dihydroresveratrol, 5700
3',5'-Dimethoxy-biphenyl-4-ol, 6213
4-[(4-hydroxyphenyl)methoxy]benzenemethanol, 10627
Kawain, 12184
Mansonrin C, 13521
Osthenol, 16257
- C₁₄H₁₄O₄**
Columbianetin, 3936
Decursinol, 4863
Demethylauraptenol, 5063
Dihydroosthenon, 5686
(E)-7-Hydroxy-6-(3-hydroxy-methyl-1-butenyl)-2H-1-benzopyran-2-one, 10194
(R)-(+)-7-Hydroxy-8-(2-hydroxy-3-methyl-3-butenyl)-2H-1-benzopyran-2-one, 10195
7-Hydroxy-6-(2-(R)-hydroxy-3-methylbut-3-enyl)coumarin, 10197
(Z)-7-Hydroxy-6-(3-hydroxy-methyl-1-butenyl)-2H-1-benzopyran-2-one, 10196
Jatamansinol, 11835
Marmesin, 13571
Methyl-2-(5-acetyl-2,3-dihydrobenzofuran-2-yl)propenoate, 14117
Nodakenetin, 15645
Phellodenol C, 17069
Tetrahydrocyperaguinone, 21063
Torachryson, 21452
- C₁₄H₁₄O₅**
Angelidiol, 1194
Celereoin, 3375
3,4-Dihydro-1,2-secomicrominutinin, 5709
1-(3',5'-Dihydroxyphenyl)-2-(4"-hydroxyphenyl)-ethane-1,2-diol, 6087
Khellactone, 12220
Methyl-2-(6-acetyl-5-hydroxy-2,3-dihydrobenzofuran-2-yl)propenoate, 14119
Peucedanone, 17035
- C₁₄H₁₄O₉**
3,5,7-Trihydroxylchromone 3-O-β-D-xylopyranoside, 22071
- C₁₄H₁₄O₁₁**
Mucic acid 1,4-lactone methyl ester 2-O-gallate, 15014
Mucic acid 1,4-lactone methyl ester 5-O-gallate, 15015
- C₁₄H₁₄S**
Dibenzyl sulphide, 5392
- C₁₄H₁₄S₂**
- Dibenzyl disulphide, 5391
- C₁₄H₁₄S₃**
Dibenzyl trisulphide, 5394
- C₁₄H₁₄S₄**
Dibenzyl tetrasulphide, 5393
- C₁₄H₁₅NO₂**
Ganodine, 8193
Piperchabamide A, 17440
- C₁₄H₁₅NO₃**
Gastrodamine, 8236
1-[1-Oxo-3(3,4-methylenedioxyphenyl)-2E-propenyl]pyrrolidine, 16392
- C₁₄H₁₅NO₇**
Isatan B, 11188
- C₁₄H₁₅NO₈**
Pancratistatin, 16601
- C₁₄H₁₆**
Chamazulene, 3464
- C₁₄H₁₆ClNO₈**
7-Chloro-(2R)-2-O-β-D-glucopyranosyl-2H-1,4-benzoxazin-3(4H)-one, 3554
- C₁₄H₁₆ClNO₉**
7-Cl-DIBOA-Glc, 3815
- C₁₄H₁₆N₂O₂**
Peganidine, 16769
- C₁₄H₁₆N₂O₃**
Cyclo-(Pro-Tyr-), 4533
- C₁₄H₁₆N₂O₅**
Brachystemidine D, 2581
- C₁₄H₁₆N₂O₆**
Brachystemidine E, 2582
Indicaxanthin, 11018
- C₁₄H₁₆N₂O₇**
Portulaxanthine, 17734
- C₁₄H₁₆N₂O₈**
Vulgaxanthin II, 22624
- C₁₄H₁₆O**
Lacinilene A, 12431
- C₁₄H₁₆O₂**
Precolpuchol, 17777
4-(2-Propenyl)-phenyl angelate, 17924
4-(1-Propenyl)-phenyl tiglate, 17926
- C₁₄H₁₆O₃**
Atractylentriol, 1968
Encecalin, 6796
Fraxinellone, 7945
Mansonrin B, 13520
Mexicanin E, 14821
Phomapyrone F, 17179
Pterosin E, 18136
- C₁₄H₁₆O₄**
6-Acetyl-5-hydroxy-2-isopropenyl-3-methoxy-2,3-dihydrobenzofuran, 419

- (3*S**,4*S**,5*R**)-(*E*)-3,4-Dihydroxy-2-(hexa-2,4-dinylyden)-1,6-dioxaspiro-(4,5)decane, 5903
Hydroxyachillin, 9765
(6*R*,7*R*,8*R*)-8-Methoxygoniodiol, 13943
Methyl 5-hydroxy-7-methyl-2,2-dimethyl-2*H*-1-chromene-6-carboxylate, 14515
Methyl 7-hydroxy-5-methyl-2,2-dimethyl-2*H*-1-chromene-6-carboxylate, 14516
Prenyl caffeate, 17828
- C₁₄H₁₆O₅**
1'-Acetoxyeugenol acetate, 195
6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-3-methoxy-2,3-dihydrobenzofuran, 417
Forsythenside B, 7923
5-Methanol-7-methoxy-2,2-dimethyl-2*H*-1-chromene-6-carboxylic acid, 13821
Methyl-2-(6-acetyl-5-hydroxy-2,3-dihydrobenzofuran-2-yl)propanoate, 14118
(*R*)-Peucedanol, 17032
(*S*)-Peucedanol, 17033
- C₁₄H₁₆O₆**
Asarumin D, 1839
Caruignigan D, 3230
Zhebeiresinol, 22996
- C₁₄H₁₆O₆S**
Petasiformin A, 17012
- C₁₄H₁₆O₈**
1-*O*-Caffeoyl- β -xylose, 2930
- C₁₄H₁₆O₉**
Bergenin, 2312
- C₁₄H₁₆O₁₀**
3-*O*-Galloyl quinic acid, 8116
4-*O*-Galloyl quinic acid, 8117
- C₁₄H₁₆O₁₂**
Mucic acid 1-methyl ester 2-*O*-gallate, 15016
Mucic acid 6-methyl ester 2-*O*-gallate, 15017
- C₁₄H₁₇Br₂ClO**
Dactylone, 4595
- C₁₄H₁₇ClO**
Pterosin F, 18137
- C₁₄H₁₇ClO₂**
Pterosin J, 18145
- C₁₄H₁₇N**
2-*n*-Pentylquinoline, 16898
- C₁₄H₁₇NO**
1-(1-Oxo-3-phenyl-2*E*-propenyl)piperidine, 16405
- C₁₄H₁₇NO₂**
Awaine, 2043
Paniculidine A, 16612
- C₁₄H₁₇NO₃**
cis-Fagaramide, 7701
trans-Fagaramide, 7702
- 6-Hydroxy-2-(3-hydroxy-3-methylbutyl)-4-quinolone, 10201
7-Hydroxy-2-(3-hydroxy-3-methylbutyl)-4-quinolone, 10202
Securitinine, 19644
- C₁₄H₁₇NO₆**
Indican glucoside, 11014
Prunasin, 18000
Sambunigrin, 19226
- C₁₄H₁₇NO₇**
Dhurrin, 5283
p-Glucosyloxymandelonitrile, 8756
Holocalin, 9590
Taxiphyllin, 20805
Zierin, 23000
- C₁₄H₁₇NO₉**
2,4-Dihydroxy-1,4-benzoxazin-3-one-2-*O*- β -*D*-glucopyranoside, 5766
(2*R*)-2-*O*- β -*D*-Glucopyranosyl-5-hydroxy-2*H*-1,4-benzoxazin-3(4*H*)-one, 8666
6-Hydroxy blepharin, 9858
- C₁₄H₁₇NO₁₀**
Triglochinin, 21644
- C₁₄H₁₇N₃O₇**
Vulgaxanthin I, 22623
- C₁₄H₁₇O₈⁻**
Glochidacuminoside A, 8559
- C₁₄H₁₈**
4-Epi-11-nor-aristola-1,9,11-triene, 6979
- C₁₄H₁₈BrClO**
Srilankenyne, 20251
- C₁₄H₁₈N₂O₂**
Cyclo-(Phe-Val), 4528
Hypaphorine, 10877
Trimethyl tryptophan, 21978
- C₁₄H₁₈N₂O₃**
Physovenine, 17253
- C₁₄H₁₈N₂O₅**
 γ -*L*-Glutamyl-*L*-phenylalanine, 8779
- C₁₄H₁₈N₂O₆**
 γ -*L*-Glutamyl-*L*-tyrosine, 8782
- C₁₄H₁₈N₂O₇**
Humilixanthin, 9662
- C₁₄H₁₈N₂O₇S**
Miraxanthin I, 14879
- C₁₄H₁₈O**
3,3-Dimethyl allyl-*p*-propenyl phenyl ether, 6310
4-Phenylbicyclo[2.2.2]octan-1-ol, 17096
- C₁₄H₁₈O₂**
4-(1-Propenyl)-phenyl 2-methylbutanoate, 17925
Pterosin B, 18133
Thellungianin F, 21308
- C₁₄H₁₈O₃**
Enecalinalol, 6797
Espeleton, 7382
Lobetyol, 12941
Pterosin C, 18134
Pterosin G, 18138
Pterosin M, 18148
Pterosin N, 18149
Pterosin P, 18151
- C₁₄H₁₈O₄**
(*E*)-4-(3,4-Dimethoxyphenyl)-but-3-en-1-ol acetate, 6280
Phomapyrone E, 17178
Phomapyrone G, 17180
Pterosin Q, 18152
Pterosin S, 18154
Pterosin T, 18155
- C₁₄H₁₈O₅**
AcronyculatinD, 574
Pterosin U, 18156
- C₁₄H₁₈O₆**
2,3-Dihydroxymethyl-4-(3',4'-dimethoxyphenyl)- γ -butyrolactone, 6029
Drypeararmoracein A, 6613
- C₁₄H₁₈O₇**
Picein, 17287
- C₁₄H₁₈O₈**
6-*O*-Acetylbutin, 324
Alopecuquinone, 982
Bungeiside A, 2747
Bungeiside B, 2748
2-Carboxylmethylphenol
1-*O*- β -*D*-glucopyranoside, 3176
Cuneataside A, 4362
Cuneataside B, 4363
(2*S*)-2-*O*- β -*D*-Glucopyranosyl-2-hydroxyphenyl-acetic acid, 8675
methyl (6-*O*-*p*-Hydroxybenzoyl)- β -*D*-glucopyranoside, 14497
- C₁₄H₁₈O₉**
1-(3-*O*- β -*D*-Glucopyranosyl-4,5-dihydroxyphenyl)-ethanone, 8622
Maltol-(6-*O*-acetyl)- β -*D*-glucopyranoside, 13453
Phaseoloidin, 17050
Vanillic acid 4-*O*- β -*D*-glucopyranoside, 22334
Vanillic acid β -*D*-glucopyranosyl ester, 22335
Woodorien, 22721
- C₁₄H₁₈O₁₀**
4-*O*- β -*D*-Glucopyranosyl methyl gallate, 8682
Methyl-6-*O*-galloyl- β -*D*-glucopyranoside, 14455
Polygoacetophenoxide, 17639
- C₁₄H₁₉NO₂**
3-Methyl-but-2-enoic acid-[2-(4-methoxyphen-

- yl)-ethyl]-amide, 14175
 Paniculidine B, 16613
C₁₄H₁₉NO₆
 Nordomoic acid, 15742
C₁₄H₁₉NO₉S₂
 Glucotropaeolin, 8760
C₁₄H₁₉NO₁₀S₂
 Sinalbine, 19909
C₁₄H₂₀
 4-Epi-11-nor-aristola-1(10),11-diene, 6977
 4-Epi-11-nor-aristola-9,11-diene, 6978
C₁₄H₂₀N₂O₃
 Subaphylline, 20434
C₁₄H₂₀N₂O₉
 Mimosine-*O*- β -D-glucoside, 14869
C₁₄H₂₀O
 2,8-Dimethyl-5-acetyl-bicyclo[5,3,0] deca-
 diene-1,8, 6301
 Mayurone, 13625
C₁₄H₂₀O₂
 2-(*p*-Cyclohexyl-phenoxy)ethanol, 4499
 (+)-1,5-Epoxy-nor-ketoguaia-11-ene, 7179
 Glutinosone, 8794
 4'-(3"-Methylbut-2"-enyloxy)-3-phenylpropanol,
 14182
 2-(2-Phenyl cyclohexyloxy) ethanol, 17103
 Polygonone, 17649
C₁₄H₂₀O₃
 Ailanthoidiol, 775
 Cuspidiol, 4422
C₁₄H₂₀O₄
 Fascicularone A, 7737
 Norannuic acid formyl ester, 15710
 2,2,4,4-Tetramethyl-6-(2-methyl-1-oxopropyl)-
 1,3,5-cyclohexanetrione, 21200
C₁₄H₂₀O₅
 7,8-Dihydroxy-isobutyryl-thymol, 5921
 Pectinolide B, 16748
 Pectinolide C, 16749
 Pectinolide H, 16754
 Sphaelactone A, 20149
C₁₄H₂₀O₆
 Phenethyl β -D-glucopyranoside, 17085
C₁₄H₂₀O₇
 1-*O*- β -D-Glucopyranosyl-2-(3-hydroxyphenyl)-
 ethanol, 8676
 Rhodiolide, 18792
 Sargencuneside, 19366
 Sceptroside, 19462
C₁₄H₂₀O₈
 Cimidahurine, 3653
 Cimidahurinine, 3654
 3,5-Dihydroxyphenethyl alcohol 3-*O*- β -gluco-
 pyranoside, 6074
 3,4-Dihydroxyphenylethyl alcohol glucoside,
 6081
 Vanilloloside, 22338
C₁₄H₂₀O₉
 2,6-Dimethoxy-4-hydroxyphenol-1-*O*- β -D-gluco-
 pyranoside, 6250
 Jioglutoside A, 11879
 Koaburaside, 12238
C₁₄H₂₁ClO₁₁
 Glutinoside, 8790
C₁₄H₂₁N
 2,6-Nonamethylene pyridine, 15682
C₁₄H₂₁NO
 (2*S*,2'*S*)-Sedamine, 19647
C₁₄H₂₁NO₄
 Codonopsine, 3886
 6,7-Dihydroxy-1,1-dimethyl-*N*-(2'-glyceryl)-
 1,2,3,4-tetrahydroisoquinoline, 5855
C₁₄H₂₁N₃O₅
 Leonurine, 12646
C₁₄H₂₂
 (-)-Norrotundene, 15790
C₁₄H₂₂NO₃⁺
 3-(4-Hydroxyphenyl)propionyl choline, 10638
C₁₄H₂₂O
cis- α -Irone, 11183
trans- α -Irone, 11184
 Rudbeckianone, 19046
C₁₄H₂₂O₂
 2,6-Dibutyl-*p*-cresol, 5402
 4-Hydroxy-14-nor-5-dumorten-7-one, 10540
 Isokobusone, 11472
 Isopolygonal, 11610
 Kobusone, 12242
 Norketoagarofuran, 15768
 Polygonal, 17642
 Rishitin, 18849
C₁₄H₂₂O₃
 Canusesnol H, 3111
 Dihydrocuspidiol, 5578
 Oxyphyllendiol A, 16462
 Oxyphyllendiol B, 16463
C₁₄H₂₂O₄
 1-Oxo-2- β -[3-butanone]-3 α -methyl-6 β -[2-
 propanoic acid]-cyclohexane, 16297
 Russulanorol A, 19075
 Russulanorol B, 19076
C₁₄H₂₂O₆
 Bursephenylpropane, 2767
C₁₄H₂₃NO
 Sarmentine, 19371
C₁₄H₂₃NO₄
 Heliohoustine, 9306
 Isoretrohoustine, 11647
 Retrohoustine, 18661
C₁₄H₂₄
 Cyprotene, 4587
C₁₄H₂₄O
 5-*cis*-Cyclotetradecen-1-one, 4538
 (*E*)-9-Isopropyl-6-methyl-5,9-decadiene-2-one,
 11627
 T-Muurolol, 15141
C₁₄H₂₄O₂
 Alepric acid, 884
 Goshuyic acid, 8956
C₁₄H₂₄O₃
 (1*R*,5*S*,6*S*,7*S*,10*R*)-1 β ,6 α -Dihydroxyeudesman-
 4-one, 5892
 15-Nor-10-hydroxy-oplopan-4-oic acid, 15758
C₁₄H₂₄O₄S₂
t-Butyl 3-[(1-methylpropyl)dithio]-2-propenyl
 malonate, 2800
t-Butyl 3-[(1-methylthiopropyl)thio]-2-propenyl
 malonate, 2801
C₁₄H₂₄O₈
 Rengyoside B, 18617
C₁₄H₂₄O₉
 Rengynic acid 1'-*O*- β -D-glucoside, 18613
C₁₄H₂₅NO
N-Isobutyldeca-*trans*-2-*trans*-4-dienamide,
 11269
C₁₄H₂₅NO₂
N-Isobutyl-4,5-epoxy-2*E*-decaenamide, 11274
C₁₄H₂₅NO₃
 Pipericycliamide, 17445
C₁₄H₂₆N₂O₁₂
 Neocycasin A, 15380
 Neocycasin B, 15381
 Neocycasin E, 15384
C₁₄H₂₆O
 Cyclotetradecan-1-one, 4537
 3-Methylcyclotridecan-1-one, 14276
C₁₄H₂₆O₂
 Myristoleic acid, 15205
cis-4-Tetradecenoic acid, 21044
 Tetradecenoic acid A, 21045
 Tetradecenoic acid B, 21046
C₁₄H₂₆O₆
 (3*R*)-1-Octan-3-enyl- β -D-glucopyranoside,
 15975
C₁₄H₂₆O₈
 Rengyoside A, 18616
C₁₄H₂₆O₉S
 Bacopaside A, 2084
C₁₄H₂₆O₁₀

- Isopropyl β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 11620
- C₁₄H₂₆O₁₁**
Agarobiose dimethylacetal, 702
- C₁₄H₂₆O₁₂**
Propanetriol- α -L-arabinofuranosyl (1 \rightarrow 4)- β -D-glucopyranoside, 17915
- C₁₄H₂₇NO₃**
N-Isobutyl-4,5-dihydroxy-2E-decaenamide, 11270
- C₁₄H₂₈**
1-Tetradecene, 21043
- C₁₄H₂₈O₂**
Ethyllaurate, 7455
Methyl-2,4,6-trimethyl-decanoate, 14792
Myristic acid, 15203
n-Dodecyl acetate, 6545
(-)-2D,4D,6D,8D-Tetramethyl decanoic acid, 21194
- C₁₄H₂₈O₄**
Ipurolic acid, 11132
- C₁₄H₃₀**
4,6-Dimethyl dodecane, 6343
Tetradecane, 21040
- C₁₄H₃₀O**
1-Tetradecanol, 21041
- C₁₅H₈N₂O₂**
Tryptanthrine, 22059
- C₁₅H₈O₅**
Coumestrol, 4190
4-Hydroxy-2-carboxyanthraquinone, 9891
Nordamnacanthal, 15734
Ophiohayatone C, 16134
- C₁₅H₈O₆**
Lucernol, 13018
Munjistin, 15076
Norjuzunal, 15765
Rhein, 18759
- C₁₅H₈O₇**
Demethylwedelolactone, 5101
Isodemethylwedelolactone, 11374
Pseudopurpurin, 18058
- C₁₅H₉ClO₂**
4'-Chloroaurone, 3542
- C₁₅H₉NO₃**
Criasiaticidine A, 4235
- C₁₅H₉O₁₀S**
Quercetin-3-sulphate, 18399
- C₁₅H₁₀N₂O**
Anticancer Alkaloid PMV70P691-051, 1381
- C₁₅H₁₀N₂O₂**
Drymaritin, 6609
5-Hydroxymethylcanthin-6-one, 10477
- 1-Methoxycanthin-6-one, 13865
5-Methoxycanthin-6-one, 13866
9-Methoxycanthin-6-one, 13867
10-Methoxycanthin-6-one, 13868
3-Methyl-canthin-2,6-dione, 14211
Picrasidine L, 17304
- C₁₅H₁₀N₂O₃**
1-Hydroxy-9-methoxycanthin-6-one, 10390
8-Hydroxy-9-methoxycanthin-6-one, 10391
10-Hydroxy-9-methoxycanthin-6-one, 10392
11-Hydroxy-10-methoxycanthin-6-one, 10393
9-Methoxycanthin-6-one 3-N-oxide, 13869
Nigakinone, 15561
Picrasidine Q, 17309
- C₁₅H₁₀O**
2,3-Diphenyl-2-cyclopropen-1-one, 6485
- C₁₅H₁₀O₂**
Flavone, 7819
2-Methylanthraquinone, 14144
- C₁₅H₁₀O₃**
Anticancer Flavonoid PMV70P691-94, 1419
Flavonol, 7820
1-Hydroxy-2-methyl-anthraquinone, 10467
2-Hydroxymethylanthraquinone, 10468
2-Isopropenyl naphtho[2,3-b]furan-4,9-quinone, 11616
- C₁₅H₁₀O₄**
Alizarin-1-methylether, 900
Alizarin-2-methylether, 901
Chrysin, 3600
Chrysophanol, 3615
Cypriitbetquinone A, 4585
Daidzein, 4604
Digiferrugineol, 5522
4',7-Dihydroxyflavone, 5895
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- C₁₅H₁₀O₉S**
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- C₁₅H₁₁ClO₃**
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- C₁₅H₁₁ClO₅**
5-Chloro-1,6-dihydroxy-3-methoxy-8-methylxanthone, 3549
- C₁₅H₁₁I₄NO₄**
3,5,3',5'-Tetraiodothyronine, 21175
- C₁₅H₁₁N**
 α -Phenylcinnamic acid nitrile, 17102
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- C₁₅H₁₂I₃NO₄**
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- C₁₅H₁₂O₂S₂**
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- C₁₅H₁₂O₆**
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- C₁₅H₁₂O₈**
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- C₁₅H₁₃ClO₄**
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- C₁₅H₁₃ClO₆**
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- C₁₅H₁₃I₂NO₄**
3,3'-Diiiodothyronine, 6186
- C₁₅H₁₃NO₃**
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- C₁₅H₁₃NO₄**
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- C₁₅H₁₃NO₅**
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- C₁₅H₁₄N₂O₃**
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- C₁₅H₁₄N₂O₄**
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- C₁₅H₁₄N₂O₆**
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- C₁₅H₁₄O**

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- C₁₅H₁₄O₂**
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- C₁₅H₁₄O₄**
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- Epicatechin, 6854
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- (+)-Galocatechin, 8098
- (-)-Galocatechin, 8099
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- C₁₅H₁₄O₉**
- 2-Acetyl-3-(*p*-coumaroyl)-*meso*-tartaric acid, 360
- C₁₅H₁₄O₁₀**
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- C₁₅H₁₅NO**
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- C₁₅H₁₅NO₂**
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- C₁₅H₁₅NO₅**
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- C₁₅H₁₅NO₆**
- Melicarpine, 13673
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- C₁₅H₁₆BrClO₂**
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- C₁₅H₁₆N₂O₂**
- 1-Ethyl-4,8-dimethoxy- β -carboline, 7433
- C₁₅H₁₆O**
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- C₁₅H₁₆O₂**
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- C₁₅H₁₆O₄**
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 5 α H-3 β ,4 β -Epoxy-14-oxo-guaia-1(10),11(13)-dien-6 α ,12-olide, 7182
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- C₁₅H₁₇Br₂ClO₂**
Obtusallene I, 15893
- C₁₅H₁₇NO₃**
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- C₁₅H₁₇O₁₂S⁻**
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- C₁₅H₁₈N₂O₅**
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- C₁₅H₁₈N₂O₆**
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- C₁₅H₁₈O**
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1,8-Dihydroxy-3,4,7-trimethoxyxanthone, 6166
Isolecanoric acid, 11486
Lecanoric acid, 12598
4'-*O*-Methyltaxifolin, 14737
- C₁₆H₁₄O₉**
Ethyl-*m*-digallate, 7458
Ethyl-*p*-digallate, 7470
- C₁₆H₁₅ClO₅**
8-(3-Chloro-2-hydroxy-3-methylbutoxy)psoralen, 3560
Saxalin, 19430
- C₁₆H₁₅NO₃**
Apoaemanthamine, 1532
Kalasinamide, 12116
Nantoamide, 15249
- C₁₆H₁₅NO₄**
Arborinine, 1614
Clausine H, 3797
4a,*N*-Dedihydronoraugustamine, 4866
Toddaliopsin A, 21419
- C₁₆H₁₅NO₅**
Citrusinine I, 3777
4-Methoxydianthramide B, 13903
- C₁₆H₁₅NO₆**
Atalafoline B, 1954
Buxifoliadine H, 2830
- C₁₆H₁₆N₂O₂**
Isolysergic acid, 11516
Lysergic acid, 13256
- C₁₆H₁₆O₂**
(*E*)-3,4'-Dimethoxystilbene, 6292
3,5-Dimethoxystilbene, 6293
6-Isohexenyl- α -naphthoquinone, 11455
Obtustylene, 15913
- C₁₆H₁₆O₃**
Broussin, 2628
Corsifuran A, 4093
7,4'-Dihydroxy-8-methylflavan, 6032
7-Hydroxy-3-(4-hydroxybenzyl)chromane, 10175
4'-Hydroxy-7-methoxyflavan, 10403

- Hydroxyobtustylene, 10545
 3'-(4"-Hydroxyphenyl)-propyl benzoate, 10639
 (2*S*)-5-Methoxy flavan-7-ol, 13928
 3,4-Methylenedioxy-3'-methoxybibenzil, 14375
 Orchinol, 16168
 Pterostilbene, 18163
 Xenognosin A, 22782
- C₁₆H₁₆O₄**
 Angolensin, 1240
 Benzyl 2,6-dimethoxybenzoate, 2283
 Densiflorol A, 5132
 Deoxyshikonin, 5214
 3',4'-Dihydroxy-3,5'-dimethoxystilbene, 5839
 2',6'-Dihydroxy-4'-methoxydihydrochalcone,
 5969
 (2*S*),3',4'-Dihydroxy-7-methoxy flavan, 5978
 (2*S*)-4',7'-Dihydroxy-3'-methoxyflavan, 5979
 Eleutherin, 6752
 4'-Hydroxy-7-methoxyflavan-3-ol, 10404
 Isohemigossylic acid lactone-2-methyl ether,
 11453
 Isohemigossylic acid lactone- 7-methyl ether,
 11454
 LoureirinC, 13012
 5-*O*-Methylalloptaeroxylin, 14125
 Naphthoquinone V, 15260
 Phoyubene C, 17198
 Uvangoletin, 22287
 (3*R*)-Vestitol, 22436
 (3*S*)-Vestitol, 22437
- C₁₆H₁₆O₅**
 (-)-Alkannin, 909
 Angelicone, 1193
 Benzyl 2-hydroxy-3,6-dimethoxybenzoate,
 2291
 Coeloginanthridin, 3890
 Columbianetin acetate, 3937
 3'-Deoxysappanol, 5211
 5,8-Dimethoxyxanthyletin, 6300
 11*b*-Hydroxy-11*b*,1-dihydromedicarpin, 10009
 5-Hydroxymethyl-6-endo-(3'-methoxy-4'-
 hydroxyphenyl)-8-oxa-bicyclo[3.2.1]-oct-3-en-
 2-one, 10489
 Lespedezol G₁, 12703
 4-Methoxy-6-(11,12-dimethylstyryl)-2-pyrone,
 13919
 Nodakenetin acetate, 15646
 Shikonin, 19819
 Torosachryson, 21459
 4,2',4'-Trihydroxy-6'-methoxydihydrochalcone,
 21770
- C₁₆H₁₆O₆**
 3'(S)-Acetoxy-4'(R)-hydroxy-3',4'-dihydro-
 xanthyletin, 213
- Arachidoside, 1600
 Aviprin, 2041
 (4*S*,4*aR*,9*aR*)-4*a*-Carbomethoxy-1,4,4*a*,9*a*-tetra-
 hydro-4,8-dihydroxy-6-methylxanthone,
 3164
 3',6'-Dihydroxy-2,4,4'-trimethoxybenzophenone,
 6158
 Glochidiolide, 8564
 Heraclenol, 9420
 Isoglochidiolide, 11442
 4-Methoxy-6-(11,12-methylenedioxy-14-
 methoxydihydrostyryl)-2-pyrone, 14018
 Oxypeucedanin hydrate, 16458
 (*S*)-(-)-Oxypeucedanin hydrate, 16459
 Protosappanin B, 17987
 Qianhuocoumarin B, 18283
 Qianhuocoumarin C, 18284
 Sappanol, 19347
 Ventiloquinone I, 22378
- C₁₆H₁₆O₇**
 8-*O*-Methyl-fusarubin, 14451
 Omphalocarpinol, 16094
- C₁₆H₁₆O₈**
 3-*O*-Caffeoylshikimic acid, 2923
 5-*O*-Caffeoylshikimic acid, 2924
- C₁₆H₁₇NO₂**
 Onosmin B, 16121
- C₁₆H₁₇NO₃**
 Caranine, 3152
 Crinine, 4240
 (+)-Crinine, 4241
 Demethylcoclaurine, 5067
 Epivittatine, 7038
 Neoacutifolin, 15335
 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2*E*,4*E*-
 pentadienyl]pyrrolidine, 16387
 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2*E*,4*Z*-
 pentadienyl] pyrrolidine, 16388
 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2*Z*,4*E*-
 pentadienyl] pyrrolidine, 16389
 Zanthobungeanine, 22966
- C₁₆H₁₇NO₄**
 Hamayne, 9206
 (+)-11-Hydroxyvittatine, 10826
 Lycorine, 13241
 Nangustine, 15246
 Noraugustamine, 15716
 Orixalone C, 16201
 (-)-Pancracine, 16600
 Pipermethystine, 17462
- C₁₆H₁₇NO₅**
 Cenocladamide, 3386
 4'-Desmethylpiplartine, 5259
 3*α*,4*α*-Epoxy-5*β*-pipermethystine, 7188
- C₁₆H₁₇N₃O**
 Lysergamide, 13255
- C₁₆H₁₇N₃O₂S**
 1-(2'-Pyrrolidinethion-3'-yl)-1,2,3,4-tetrahydro-
β-carboline-3-carboxylic acid, 18278
- C₁₆H₁₈N₂**
 Agroclavine, 763
- C₁₆H₁₈N₂O**
 Elymoclavine, 6765
 Isosetoclavine, 11712
 Lysergol, 13257
 Setoclavine, 19789
- C₁₆H₁₈N₂O₂**
 Isopenniclavine, 11582
 Penniclavine, 16808
- C₁₆H₁₈N₂O₃**
 4,8-Dimethoxy-1-(2-methoxyethyl)-*β*-carboline,
 6257
- C₁₆H₁₈N₂O₆**
 Cappariloside A, 3136
 Indole-3-acetonitrile-6-*O*-*β*-*D*-glucopyranoside,
 11028
- C₁₆H₁₈N₆O₅**
 AMG-1, 1039
- C₁₆H₁₈O₃**
 Broussonin A, 2647
 Broussonin B, 2648
 4-Ethoxymethylphenyl-4'-hydroxybenzylether,
 7412
 3-Methoxy-7-hydroxycadalenal, 13951
 3'-*O*-Methylbatatasin III, 14154
 Stilbostemin D, 20380
- C₁₆H₁₈O₄**
 Alkannan, 908
 Batatasin II, 2164
 Bungein A, 2746
 Coumurrayin, 4193
 Gigantol, 8380
 6-Methoxyhemigossypol, 13946
 Rutacultin, 19079
 Stilbostemin E, 20381
 Toddaculine, 21418
- C₁₆H₁₈O₅**
 Aculeatin, 588
 Albiflorin-2, 859
 Albiflorin-3, 860
 5,6-Dimethoxy-8-(3'-methyl-2'-oxobutyl)
 coumarin, 6265
 5,7-Dimethoxy-8-(3'-methyl-2'-oxobutyl)
 coumarin, 6266
 11-Methoxy-5,6-dihydroangonin, 13915
 5-*O*-Methylvisamminol, 14812
 Omphamurin, 16095

- Perforamone A, 16912
 Perforamone B, 16913
 Perforamone C, 16914
- C₁₆H₁₈O₆**
 Descurainin, 5245
 6-(2',3'-Dihydroxy-3'-methylbutyl)-7-acetoxy-2*H*-1-benzopyran-2-one, 6026
 Methyl 5-acetoxymethanol-7-hydroxy-2,2-dimethyl-2*H*-1-chrome e-6-carboxylate, 14116
 1-Naphthol- β -*D*-glucopyranoside, 15254
 (2*S*)-Ongokein-4'-one, 16097
- C₁₆H₁₈O₇**
 4-Hydroxy-1-naphthalenyl- β -*D*-glucopyranoside, 10536
- C₁₆H₁₈O₈**
 5-*p-cis*-Coumaroylquinic acid, 4182
 5-*p-trans*-Coumaroylquinic acid, 4183
 Gerberinside, 8334
 α -Hydrojuglone glucoside, 9721
 Jiadifenin, 11868
 1,2,4-Trihydroxynaphthalene-4-glucoside, 21811
- C₁₆H₁₈O₉**
 Biflorin, 2369
 4-*O*-Caffeoylquinic acid, 2918
 Chlorogenic acid, 3551
 8-*O*- β -*D*-Glucopyranosyl-6-hydroxy-2-methyl-4*H*-1-benzopyran-4-one, 8673
 Isochlorogenic acid, 11327
 Neochlorogenic acid, 15363
 Scopolin, 19545
 Staphylin, 20263
- C₁₆H₁₈O₁₀**
 Fraxin, 7944
- C₁₆H₁₉BrCl₂O₃**
 Polyhalogenated homosesquiterpenic fatty acid A, 17650
 Polyhalogenated homosesquiterpenic fatty acid B, 17651
- C₁₆H₁₉NO₃**
 α -Erythroidine, 7340
 β -Erythroidine, 7341
 Macowine, 13297
 Norgalanthamine, 15750
 Norpluviine, 15788
 Piperamine, 17438
 Piperlonguminine, 17461
- C₁₆H₁₉NO₄**
 Acutifolidin, 595
 4 α -Dehydroxycrinamabine, 4982
 (\pm)-8-Methoxyplatydesmine, 14072
 1-[1-Oxo-3(3,4-methylenedioxy-5-methoxyphenyl)-2*Z*propenyl] piperidine, 16382
 Pseudolycorine, 18050
- C₁₆H₁₉NO₅**
 (2*S*,4*R*)-2-Carboxy-4-(*E*)-*p*-coumaroyloxy-1,1-dimethylpyrrolidinium inner salt, 3166
 Zanthodioline, 22967
- C₁₆H₁₉NO₆**
 Nor-orixine, 15785
- C₁₆H₁₉NO₇S**
 Chaetoquadrin D, 3443
- C₁₆H₁₉NO₈**
 6-Acetyl holocalin, 412
- C₁₆H₁₉N₃O₃**
 α -Dichroine, 5435
 β -Dichroine, 5436
 Febrifugine, 7747
- C₁₆H₂₀NO₃⁺**
N-Methylplatydesmin, 14682
- C₁₆H₂₀NO₄**
 Ribalinium, 18831
- C₁₆H₂₀NO₄⁺**
 Pteleatin, 18102
- C₁₆H₂₀N₂**
 Costaclavine, 4125
- C₁₆H₂₀N₂O**
 Chanoclavine, 3477
 Fordimine, 7879
 Huperzine B, 9687
- C₁₆H₂₀N₂O₉S₂**
 Glucobrassicin, 8589
- C₁₆H₂₀N₂O₁₀S₂**
 4-Hydroxy-3-indolyl methyl glucosinolate, 10232
- C₁₆H₂₀N₂O₁₂S₃**
 Glucobrassicin-1-Sulfonate, 8590
- C₁₆H₂₀O₂**
 Arnebinol, 1746
 Isolinderoxide, 11495
- C₁₆H₂₀O₃**
 1,4-Dihydroxy-2-(3',7'-dimethyl-1'-oxo-2'-*E*,6'-octadienyl)benzene, 5859
 1,4-Dihydroxy-2-(3',7'-dimethyl-1'-oxo-2'-*Z*,6'-octadienyl)benzene, 5860
 Lacinilene C 7-methyl ether, 12432
rel-3*R*-Methoxy-4*S*-furanogermaera-1*E*,10(15)-dien-6-one, 13935
- C₁₆H₂₀O₄**
 Acetylpterisin C, 490
 2,3-Dihydro-5,7-dihydroxy-2,6-dimethyl-8-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 5592
 2,3-Dihydro-5,7-dihydroxy-2,8-dimethyl-6-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 5593
 5-Hydroxy-6-isobutyryl-7-methoxy-2,2-dimethylbenzopyran, 10239
 7-Hydroxy-6-isobutyryl-5-methoxy-2,2-dimethylbenzopyran, 10240
- C₁₆H₂₀O₅**
 Curvularin, 4414
 1,4-Dihydroxy-2-(7'-methyl-3'-methylene-1'-oxo-4',7'-peroxide-octyl)benzene, 6041
 7-Methoxy-8-(2'-Methoxy-3'-hydroxy-3'-methylbutyl)coumarin, 13996
 3-Methoxytanaphtholide, 14097
- C₁₆H₂₀O₆**
 (2*S*)-*cis*-4'-Hydroxy-ongokein, 10554
 (2*S*)-*trans*-4'-Hydroxy-ongokein, 10555
 Isomexoticin, 11536
 Lasiopulide, 12541
 Mexoticin, 14825
 Toddalolactone, 21423
- C₁₆H₂₀O₇**
 Bidensyneoside B, 2361
 Buergeriside C₁, 2712
 (2*E*,8*E*)-2,8-Decadiene-4,6-diyne-1,10-diol 1-*O*- β -*D*-glucopyranoside, 4818
 Juglanoside A, 11898
- C₁₆H₂₀O₈**
 Juglanoside B, 11899
 Juglanoside C, 11900
 Methyl 6-*O*-*p-cis*-coumaroyl- β -*D*-glucopyranoside, 14257
 Methyl 6-*O*-*p-trans*-coumaroyl- β -*D*-glucopyranoside, 14258
 Veranisatin A, 22384
- C₁₆H₂₀O₉**
 6-*O*-Feruloyl- β -*D*-glucopyranoside, 7773
 1-*O*-Feruloyl- β -glucose, 7774
 Gentiopicroside, 8304
 5-Hydroxy-6-methylchromone-7-*O*- β -*D*-glucoside, 10481
 Juglanoside D, 11901
 Juglanoside E, 11902
 Veranisatin B, 22385
- C₁₆H₂₀O₁₀**
 7-Caffeoylsedoheptulose, 2922
- C₁₆H₂₀O₁₁**
 Erinoside, 7266
- C₁₆H₂₁BrCl₂O₃**
 Polyhalogenated homosesquiterpenic fatty acid C, 17652
- C₁₆H₂₁BrN₂**
 Deformylflustrabromine, 4868
 Deformylflustrabromine B, 4869
- C₁₆H₂₁NO₃**
 Annotine, 1332
 Annotinine, 1333

- Datumetine, 4665
 5,6-Dihydropiperlonguminine, 5695
 Norhyoscyamine, 15760
 3-Oxo-8 α -methoxy-10 α H-eremophila-1,7(11)-dien-12,8 β -lactam, 16378
- C₁₆H₂₁NO₄**
 Concneorine, 3960
 Edulinine, 6708
 Sarmenamide C, 19370
- C₁₆H₂₁NO₅**
 Foliosidine, 7854
- C₁₆H₂₂Cl₂O₃**
 Polyhalogenated homosesquiterpenic fatty acid D, 17653
- C₁₆H₂₂N₂**
 Lycodine, 13190
 6,7-Seco-agroclavine, 19605
- C₁₆H₂₂N₂O₂S**
 Aglathioduline, 740
- C₁₆H₂₂N₄O₂**
 Acanthoine, 81
- C₁₆H₂₂N₄O₃**
 Eseramine, 7379
- C₁₆H₂₂NO₄⁺**
 Rutalinium, 19084
- C₁₆H₂₂O₂**
 Gloeophyllol B, 8577
 8 α -Methoxyfuranodiene, 13932
 Pathenolide, 16713
 Pterosin I, 18144
- C₁₆H₂₂O₃**
 Acutifolone A, 600
 4 β -Methoxycostuslactone, 13899
rel-2*R*-Methoxy-4*R*-furanogermacra-1(10)*E*-en-6-one, 13936
 Methyl 8- α -humula-6*Z*,9*E*-dien-12-oate, 14492
 Methyl 8-oxo- α -humula-6*E*,9*E*-dien-12-oate, 14645
 Methyl 8-oxo- α -humula-6*E*,9*Z*-dien-12-oate, 14646
 Pterosin V, 18157
- C₁₆H₂₂O₄**
 Des-*O*-methylsiodiplodin, 5258
 Dibutyl phthalate, 5404
 Diterbutyl phthalate, 6523
 1 β ,10 β -Epoxy-8 α -methoxyeremophil-7(11)-en-12,8 β -olide, 7164
 6 β -Hydroxy-8 α -methoxyeremophila-1(10),7(11)-dien-12,8 β -olide, 10401
 8-Methoxy-9-*O*-angeloylthymol, 13839
 8-Methoxy-9-hydroxythymol 3-*O*-tiglate, 13970
 3-*O*-(3-Methyl-2-butenoyl)-8-methoxy-9-hydroxythymol, 14179
- 9'-(3,4-Methylenedioxy-phenyl)-nonanoic acid, 14381
 Methyl leptol B, 14551
 Senkyunolide M, 19742
 Senkyunolide Q, 19744
- C₁₆H₂₂O₅**
 (3*R*),(5*R*)-5-Hydroxy-de-*O*-methylsiodiplodin, 9979
 (3*R*),(6*R*)-6-Hydroxy-de-*O*-methylsiodiplodin, 9980
- C₁₆H₂₂O₆**
 7-Acetoxy-8-hydroxy-9-isobutyryloxythymol, 219
 Bidenoside C, 2358
 Lindenanolide G, 12864
 Pectinolide A, 16747
- C₁₆H₂₂O₇**
 Bidensyneoside A₁, 2359
 Bidensyneoside A₂, 2360
 3-Deoxybidensyneoside B, 5155
 Eugenol- β -*D*-glucopyranoside, 7522
 Gymnasterkoreaside A, 9104
 (*E*)-3-Hydroxyanethole β -*D*-glucopyranoside, 9784
 (*E*)-1'-(2-Hydroxy-5-methoxyphenyl)propene β -*D*-glucopyranoside, 10454
 Phenylbutanone-glucoside, 17099
- C₁₆H₂₂O₈**
 Baihuaqianhuoside, 2107
 Bidensyneoside C, 2362
 Coniferin, 3981
 3(ζ),8(ζ)-Dihydroxydec-9-en-4,6-yne-1-*O*- β -*D*-glucopyranoside, 5801
 Pectinolide D, 16750
 Serratumin A, 19775
- C₁₆H₂₂O₉**
 10-Deoxygeniposidic acid, 5176
 2,4-Dihydroxy-6-methoxy-3-methylacetophenone-4-*O*- β -*D*-glucopyranoside, 5989
 2-*O*-(2)- β -*D*-Glucopyranosyl-4,6-dimethoxyphenylentanone, 8625
 2-*O*- β -*D*-Glucosyloxy-4-methoxybenzene-propanoic acid, 8757
 Sweroside, 20503
- C₁₆H₂₂O₁₀**
 7,8-Epoxy-8-epi-loganic acid, 7090
 Gardoside, 8234
 Geniposidic acid, 8277
 Methyl syringate 4-*O*- β -*D*-glucopyranoside, 14735
 Swertiamarin, 20509
 Trimethylgalloylglucose, 21959
- C₁₆H₂₂O₁₁**
- Deacetyl asperulosidic acid, 4716
 Monotropein, 14933
 Scandoside, 19454
 Theveside, 21324
- C₁₆H₂₃NO₂**
 Acrifoline, 567
 Lycophlegmine, 13221
 Lycoposerramine H, 13227
 Lycoposerramine I, 13228
 Lycoposerramine K, 13230
- C₁₆H₂₃NO₃**
 Neohuperzidine, 15407
- C₁₆H₂₃NO₅**
 Assamicadine, 1912
 Fulvine, 7994
- C₁₆H₂₃NO₆**
 Monocrotaline, 14923
- C₁₆H₂₃NO₇**
 6,7-Dihydroxy-1-methyl-*N*-(6'-fructopyranosyl)-1,2,3,4-tetrahydroisoquinoline, 6033
- C₁₆H₂₄NO₅**
 Sinapine, 19917
- C₁₆H₂₄N₂**
 Huperzidine C, 9690
- C₁₆H₂₄N₂O₂**
 Carolinianine, 3207
- C₁₆H₂₄N₂O₅**
 (2*S*)-6-Amino-2-[(3*aR**,4*S**,7*R**,7*aS**)-3*a*,7*a*-dimethyl-1,3-dioxo-4,7-epoxyoctahydroisindol-2-yl]-hexanoic Acid, 1050
- C₁₆H₂₄N₄O₅**
 (2*S*)-2-[(3*aR**,4*S**,7*R**,7*aS**)-3*a*,7*a*-Dimethyl-1,3-dioxo-4,7-epoxy-octahydroisindol-2-yl]-5-guanidino pentanoic acid, 6341
- C₁₆H₂₄O**
 Curcumadione, 4389
- C₁₆H₂₄O₂**
 2-Hydroxy-4-methoxycuparene, 10395
 Madolin K, 13342
 Madolin M, 13343
 Madolin S, 13345
 Methylarteanuante, 14147
 Methyl guaia-1(10),11-dien-15-carboxylate, 14477
 (-)-Methyl selina-3,11-dien-14-oate, 14725
 (+)-Methyl selina-4,11-dien-14-oate, 14726
 Petasalbin methyl ether, 17011
- C₁₆H₂₄O₃**
 Actinolide A, 586
 Dehydrojuvabione, 4935
 10 β -Hydroxy-6 β -methoxy-furanoeremophilane, 10406
- C₁₆H₂₄O₄**

- Brefeldin A, 2600
 Isotorquatone, 11745
 8-Methoxy-9-(2-methylbutyryloxy)thymol, 14005
 7-Oxopinguinolenol-12-methyl ester, 16407
- C₁₆H₂₄O₅**
 8β,10β-Dihydroxy-6β-methoxyeremophil-7(11)-en-12,8α-olide, 5977
 7-*O*-Methylpseudomajucin, 14704
- C₁₆H₂₄O₇**
 Epirhododendrin, 7007
 8-Hydroxycuminyl β-*D*-glucopyranoside, 9950
 (8*R*)-9-Hydroxycuminyl β-*D*-glucopyranoside, 9951
 7-Hydroxythymol 3-*O*-β-*D*-glucopyranoside, 10764
 Perilloside B, 16932
 (2*S*,3*S*)-1-Phenyl-2,3-butanediol 3-*O*-β-*D*-glucopyranoside, 17097
 Rhododendrin, 18794
 Thymoquinol 2-*O*-β-*D*-glucopyranoside, 21363
 Thymoquinol 5-*O*-β-*D*-glucopyranoside, 21364
- C₁₆H₂₄O₈**
 (1'*R*,2'*R*)-Anethole Glycol 2'-*O*-β-*D*-glucopyranoside, 1184
 (1'*S*,2'*S*)-Anethole glycol 2'-*O*-β-*D*-Glucopyranoside, 1185
 Boschnaloside, 2564
 (8*S*)-8,9-Dihydroxycuminyl β-*D*-glucopyranoside, 5798
 1-(4'-Methoxyphenyl)-(1*R*,2*S*)-propan-1-ol 2-*O*-β-*D*-glucopyranoside, 14066
 1-(4'-Methoxyphenyl)-(1*S*,2*R*)-propan-1-ol 2-*O*-β-*D*-glucopyranoside, 14067
- C₁₆H₂₄O₉**
 Cachineside I, 2839
 7-Deoxy-8-epi-loganic acid, 5189
C-8-(*S*)-7-Deoxyloganic acid, 5190
 2,6-Dimethoxy-4-(2-hydroxyethyl)phenol 1-*O*-β-*D*-glucopyranoside, 6239
 1'-(4-Hydroxy-2-methoxyphenyl)propane-2',3-diol 4-*O*-β-*D*-glucopyranoside, 10433
 Ixoroside, 11805
 Junipediol A 29-*O*-β-*D*-glucopyranoside, 11963
 Junipediol A 4-*O*-β-*D*-glucopyranoside, 11964
 Nikoenoside, 15595
 Plantarenaloside, 17513
 Swertiajaposide B, 20507
- C₁₆H₂₄O₁₀**
 Adoxosidic acid, 652
 Cachineside V, 2842
 8-*O*-Debenzoylpaconiflorin, 4809
 Demethylsecologanol, 5097
 8-Diebenzoylpaconiflorin, 5483
 6α-Dihydrocornic acid, 5567
 6β-Dihydrocornic acid, 5568
 8-Epiloganic acid, 6952
D-*threo*-Guaiacyl glycerol 8-β-*D*-glucopyranoside, 9023
L-*threo*-Guaiacyl glycerol 8-β-*D*-glucopyranoside, 9024
 (1'*R*,2'*R*)-Guaiacyl glycerol 3'-*O*-β-*D*-glucopyranoside, 9025
 (1'*R*,2'*R*)-Guaiacyl glycerol 4-*O*-β-*D*-glucopyranoside, 9026
 (1'*S*,2'*R*)-Guaiacyl glycerol 3'-*O*-β-*D*-glucopyranoside, 9027
 8-Hydroxy-10-hydrosveroside, 10174
 9-Hydroxysemperoside, 10698
 Loganic acid, 12949
 6-*O*-Methyl catalpol, 14222
 Mussaenosidic acid, 15134
 Tecomoside, 20897
- C₁₆H₂₄O₁₁**
 Cachineside IV, 2841
 Shanzhiside, 19795
 Tuliposide F, 22107
- C₁₆H₂₅N**
 (*E*)-3-Isocyanobisabolene-7,10-diene, 11360
 Muscopyridine, 15130
- C₁₆H₂₅NO**
 Hydroxymuscopyridine A, 10532
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 Lycopodine, 13223
 Sanshool, 19297
- C₁₆H₂₅NO₂**
 Acrifolinol, 568
 Annofoline, 1300
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 Lycodoline, 13191
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 Lycoposerramine J, 13229
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 Lycoposerramine M, 13232
 Pseudoselagine, 18062
- C₁₆H₂₅NO₃**
 Decoyl vanillylamide, 4858
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 6-Hydroxydendrobine, 9982
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 Serratine, 19771
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- C₁₆H₂₅NO₄**
 Lycoposerramine F, 13225
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 ZP-amide A, 23023
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- C₁₆H₂₅NO₅**
 Hordenine-*O*-α-*L*-rhamnopyranoside, 9649
 Retusine, 18668
- C₁₆H₂₅NO₉S**
 Sinapine bisulfate, 19918
- C₁₆H₂₅NO₁₀**
 Proacaciberin, 17863
- C₁₆H₂₆**
 3-Phenyldecane, 17104
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- C₁₆H₂₆N₂O**
 Cernuine, 3431
- C₁₆H₂₆N₂O₂**
 Lycocernuine, 13184
- C₁₆H₂₆N₄O₂**
 Acanthoidine, 80
- C₁₆H₂₆O**
 7,10,13-Hexadecatrienal, 9491
- C₁₆H₂₆O₂**
 1,5-Di-isobutyl-3,3-dimethyl[3,1,0]cyclohexadione, 6188
 7*Z*,10*Z*,13*Z*-Hexadecatrienoic acid, 9492
- C₁₆H₂₆O₃**
 Bisaborosaol A, 2417
 (10*R*)-Hydroxyhexadeca-7*Z*,11*E*,13*Z*-trienoic acid, 10161
 Juvabione, 11987
 Juvenile hormone III, 11988
 4-Methoxy-5-hydroxybisabola-2,10-diene-9-one, 13950
 2-Methoxy-3-nonylresorcinol, 14042
- C₁₆H₂₆O₄**
 Bisaborosaol B₁, 2418
 Bisaborosaol B₂, 2419
 Bisaborosaol F, 2423
 5α-Hydroxy-4-epi-ilicic acid methyl ester, 10072
 7α-Hydroxypinguinolenol-12-methyl ester, 10650
 7β-Hydroxypinguinolenol-12-methyl ester, 10651
- C₁₆H₂₆O₅**
 Bisaborosaol C₁, 2420
 Bisaborosaol C₂, 2421
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- C₁₆H₂₆O₆**
 Limonene-10-ol 10-*O*-β-*D*-glucopyranoside, 12845
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- Perillylglucopyranoside, 16936
- C₁₆H₂₆O₇**
Dissectol A, 6518
(1*S*,4*R*,6*S*)-6-Hydroxycamphor- β -*D*-glucopyranoside, 9880
(1*R*,4*S*,6*S*)-6-Hydroxycamphor β -*D*-glucopyranoside, 9881
(4*R*,6*S*)-7-Hydroxycarveol 7-*O*- β -*D*-glucopyranoside, 9896
3 β -Hydroxy-*p*-menth-1-en-4 β ,5 β -oxide 3-*O*- β -*D*-glucopyranoside, 10378
6 α -Methyl-2,6 β -dihydroxymethylbicyclo[3.1.1]hept-2-ene-2 β -*O*-glucoside, 14311
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Schizonepetoside A, 19503
Schizonepetoside B, 19504
Schizonepetoside C, 19505
Schizonepetoside D, 19506
Thymuside A, 21365
- C₁₆H₂₆O₈**
Bodinierin, 2526
(4*S*,8*S*)-8,9-Dihydroxy-8,9-dihydrocarvone 9-*O*- β -*D*-glucopyranoside, 5808
(-)-Oleuropeic acid 8-*O*- β -*D*-glucopyranoside, 16079
Picrocrocinic acid *O*- β -*D*-glucopyranoside, 17331
Rehmapicroside, 18601
Villoside, 22479
- C₁₆H₂₆O₉**
1-*O*- β -*D*-Glucopyranosylamplexin, 8603
Villosolside, 22481
- C₁₆H₂₆O₁₀**
3,4-Dihydro-methylcatalpol, 5675
Lamiol, 12458
- C₁₆H₂₆O₁₁**
3-Methylbut-2-enoyl-1-*O*- β -*D*-glucopyranosyl- β -*D*-apiofuranoside, 14178
- C₁₆H₂₇KO₁₀S**
(3*S*,6*E*)-8-Hydroxylinalool 3-*O*- β -*D*-(3-*O*-Potassium sulfo)glucopyranoside, 10326
- C₁₆H₂₇NO**
Complanatine, 3948
1-(1-Oxo-2*E*,4*E*-dodadienyl)pyrrolidine, 16325
- C₁₆H₂₇NO₂**
Deacetyllycoclavine, 4748
- C₁₆H₂₇NO₄**
ZP-amide C, 23025
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ZP-amide E, 23027
ZP-amide F, 23028
- C₁₆H₂₇NO₅**
Heliotridine 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methyl-pentanoyl ester, 9319
Heliotrine, 9320
Retronecine 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester, 18664
Supinidine *N*-oxide 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester, 20487
- C₁₆H₂₇NO₆**
Europine, 7636
Retronecine *N*-oxide 2*S*-hydroxy-2*S*-(1*R*-hydroxyethyl)-4-methylpentanoyl ester, 18665
Retronecine *N*-oxide 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester, 18666
- C₁₆H₂₇NO₁₁**
Linustatin, 12896
- C₁₆H₂₈O**
1-Methoxy-4-cadinene, 13862
- C₁₆H₂₈O₂**
Ambrettolide, 1027
Hydnocarpic acid, 9697
6 α -Methoxyeudesm-4(15)-en-1 β -ol, 13925
11-Methoxyopposit-4(15)-en-1 β -ol, 14048
- C₁₆H₂₈O₃**
13-Hydroxy-9,11-hexadecadienoic acid, 10160
15-Methoxyisodauc-3-ene-1 β ,5 α -diol, 13974
- C₁₆H₂₈O₄**
Actinolide B, 587
Methyl (2*E*,6*E*,10*R*)-10,11-dihydroxy-3,7,11-trimethyl-2,6-dodecadienoate, 14318
- C₁₆H₂₈O₆**
Borneol-2-*O*- β -*D*-glucopyranoside, 2554
Perilloside C, 16933
- C₁₆H₂₈O₇**
(1*R*,2*S*,4*S*,5*R*)-Angelicoidenol 2-*O*- β -*D*-glucopyranoside, 1192
Betulalbuside A, 2329
(1*R*,2*R*,4*S*,6*R*)-Bornane-2,6-diol 2-*O*- β -*D*-glucopyranoside, 2548
(1*S*,2*S*,4*R*,6*S*)-Bornane-2,6-diol 2-*O*- β -*D*-glucopyranoside, 2549
Bucharioside, 2696
(1*R*,2*R*,4*S*)-2-Hydroxy-1,8-cineole β -*D*-glucopyranoside, 9907
8-Hydroxygeraniol-1- β -*D*-glucopyranoside, 10141
2 β -Hydroxy-2 α -hydroxymethyl-6,6-dimethyl bicyclo[3.1.1]heptane-2 α -*O*-glucoside, 10203
p-Menth-1-ene-3,4-diol 4-*O*- β -glucopyranoside, 13748
(1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside, 13749
(1*S*,2*R*,4*R*)-*p*-Menth-5-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside, 13750
(1*S*,2*R*,4*R*)-*p*-Menth-5-ene-1,2-diol 2-*O*- β -*D*-glucopyranoside, 13751
(1*S*,2*R*,4*R*)-*p*-Menth-8-ene-2,10-diol 2-*O*- β -*D*-glucopyranoside, 13752
(1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 1-*O*- β -*D*-glucopyranoside, 13753
(1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 2-*O*- β -*D*-glucopyranoside, 13754
(1*R*,2*R*)-*p*-Menth-3-ene-1,2-diol 2-*O*- β -*D*-glucopyranoside, 13755
(3*R*,4*R*)-*p*-Menth-1-ene-3,4-diol 3-*O*- β -*D*-glucopyranoside, 13756
(3*R*,4*S*,6*R*)-*p*-Menth-1-ene-3,6-diol 3-*O*- β -*D*-glucopyranoside, 13757
(3*R*,4*S*,6*R*)-*p*-Menth-1-ene-3,6-diol 6-*O*- β -*D*-glucopyranoside, 13758
(4*R*)-*p*-Menth-1-ene-7,8-diol 7-*O*- β -*D*-glucopyranoside, 13759
(4*R*)-*p*-Menth-1-ene-7,8-diol 8-*O*- β -*D*-glucopyranoside, 13760
(4*R*,6*S*)-*p*-Menth-1-ene-4,6-diol 4-*O*- β -*D*-glucopyranoside, 13761
(4*S*)-*p*-Menth-1-ene-4,7-diol 4-*O*- β -*D*-glucopyranoside, 13762
(4*S*)-*p*-Menth-1-ene-7,8-diol 8-*O*- β -*D*-glucopyranoside, 13763
(4*S*,6*S*)-*p*-Menth-1-ene-4,6-diol 4-*O*- β -*D*-glucopyranoside, 13764
6 α -Methyl-2 α ,6 β -dihydroxymethylbicyclo[3.1.1]heptane-2 α -*O*-glucoside, 14309
(1*S*,2*R*,4*S*,7*R*)-Vicodiol 2-*O*- β -*D*-glucopyranoside, 22467
(1*R*,2*S*,4*R*,7*S*)-Vicodiol 9-*O*- β -*D*-glucopyranoside, 22468
- C₁₆H₂₈O₈**
(1*S*,4*S*,8*S*)-8,9-Dihydroxytetrahydrocarvone 9-*O*- β -*D*-glucopyranoside, 6142
(3*R*,4*R*,6*R*)-*p*-Menth-1-ene-3,4,6-triol 3-*O*- β -*D*-glucopyranoside, 13768
(1*S*,2*R*,4*S*)-*p*-Menth-5-ene-1,2,4-triol 2-*O*- β -*D*-glucopyranoside, 13769
Schizonepetoside E, 19507
- C₁₆H₂₈O₁₀**
Isopentenol-1-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 11584
- C₁₆H₂₈O₁₁**
3-Methylbutanoyl-1-*O*- β -*D*-glucopyranosyl- β -*D*-apiofuranoside, 14166
- C₁₆H₂₉NO**
Herculin, 9428
N-Isobutyl-2*E*,4*E*-dodadienamide, 11272
- C₁₆H₂₉NO₄**
Trachelanthamidine 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methylpentanoyl ester, 21489
Viridiflorine, 22527

- C₁₆H₂₉O₁₁^{S-}**
 (3*S*,6*R*)-6,7-Dihydroxy-6,7-dihydrolinalool-3-*O*- β -*D*-(3-*O*-Potassium sulfo)-glucopyranoside, 5897
- C₁₆H₃₀O**
 Muscone, 15129
- C₁₆H₃₀O₂**
 11*Z*-Hexadecenoic acid, 9494
 ω -Hexadecenoic acid, 9495
 γ -Hydroxypalmitic acid lactone, 10590
 Hypogaic acid, 10895
 Palmitoleic acid, 16561
- C₁₆H₃₀O₃**
 2-Oxohexadecanoic acid, 16345
- C₁₆H₃₀O₄**
 (3*S*,5*R*,6*R*,7*E*,9*R*)-5,6,9-Trihydroxy-3-isopropoxy-7-megastigmenone, 21753
- C₁₆H₃₀O₇**
 (3*S*)-8-Hydroxy-6,7-dihydrolinalool 3-*O*- β -*D*-glucopyranoside, 10005
 8-Hydroxy-6,7-dihydrolinalool 8-*O*-glucopyranoside, 10006
- C₁₆H₃₀O₈**
 (3*S*,6*R*)-6,7-Dihydroxy-6,7-dihydrolinalool-3-*O*- β -*D*-glucopyranoside, 5813
 (3*S*,6*S*)-6,7-Dihydroxy-6,7-dihydrolinalool-3-*O*- β -*D*-glucopyranoside, 5814
 Ethyl *O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)-*O*-3-*O*-methyl-6-deoxy- β -*D*-allopyranoside, 7468
 (1*S*,2*R*,4*R*,8*S*)-*p*-Menthane-2,8,9-triol 2-*O*- β -*D*-glucopyranoside, 13741
 (1*S*,2*S*,4*R*)-*p*-Menth-1,2,8-triol 2-*O*- β -*D*-glucopyranoside, 13777
 (1*R*,2*R*,4*R*,8*R*)-*p*-Menth-2,8,9-triol 2-*O*- β -*D*-glucopyranoside, 13778
- C₁₆H₃₀O₉**
 (2*S*,6*C*)-3,7-Dimethyloct-3(10)-ene-1,2,6,7-tetrol 1-*O*- β -*D*-glucopyranoside, 6388
rel-(1*R*,2*R*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol 9-*O*- β -*D*-glucopyranoside, 13736
 (1*S*,2*S*,4*R*,8*R*)-*p*-Menthane-1,2,8,9-tetrol 2-*O*- β -*D*-glucopyranoside, 13737
 (1*S*,2*S*,4*R*,8*S*)-*p*-Menthane-1,2,8,9-tetrol 2-*O*- β -*D*-glucopyranoside, 13738
- C₁₆H₃₂**
 2-Cyclohexyldecane, 4497
 1-Hexadecene, 9493
- C₁₆H₃₂O**
 Muscol, 15128
- C₁₆H₃₂O₂**
 Hexadecanoic acid, 9486
 Methyl pentadecanoate, 14655
 13-Methyl pentadecanoic acid, 14656
- 12-Methyl tetradecanoic acid methyl ester, 14744
 4,8,12-Trimethyl tridecanoic acid, 21976
- C₁₆H₃₂O₅**
 Aleuritic acid, 887
- C₁₆H₃₃NO**
 Palmitamide, 16559
- C₁₆H₃₄**
 Hexadecane, 9485
- C₁₇H₉NO₃**
 Liriodenine, 12917
- C₁₇H₁₀O₆**
 Aristolophenanlactone I, 1724
 Flemichapparin C, 7826
- C₁₇H₁₀O₇**
 Boeravinone F, 2537
 Irisoid D, 11169
- C₁₇H₁₀O₈**
 Irisoid E, 11170
- C₁₇H₁₁NO₄**
 Aristolactam I, 1698
 4,5-Dioxodehydroasimilobine, 6466
 6-Methoxy-aristolactam, 13844
- C₁₇H₁₁NO₅**
 Aristoliukine B, 1712
- C₁₇H₁₁NO₆**
 Aristolochic acid II methyl ester, 1717
- C₁₇H₁₁NO₇**
 Aristolochic acid, 1713
- C₁₇H₁₁NO₈**
 Aristolochic acid E, 1715
 Aristolochic acid IVa, 1719
 7-Hydroxy-aristolochic acid A, 9799
- C₁₇H₁₁N₃O₂**
 Bouchardatine, 2569
- C₁₇H₁₂N₂O₄**
 Flazin, 7824
- C₁₇H₁₂O₃**
 Tanshinlactone, 20682
- C₁₇H₁₂O₄**
 Nortanshinone, 15801
- C₁₇H₁₂O₅**
 Flemichapparin B, 7825
 3'-Methoxy-4',5'-methylenedioxyflavone, 14016
 5-Methoxy-6,7-methylenedioxyflavone, 14017
 3',4'-Methylenedioxy-7-methoxyflavone, 14376
- C₁₇H₁₂O₆**
 Aflatoxin B₁, 671
 Boeravinone B, 2533
 3,4-Dimethylenedioxypterocarpan, 6349
 Leiocarpaquinone, 12606
 1-Methoxy-3-hydroxy-2-carbomethoxy-9,10-anthraquinone, 13952
 5-Methoxy-4'-hydroxy-6,7-methylenedioxyiso-
- flavone, 13964
 Tournefoliac acid A, 21478
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- C₁₇H₁₂O₇**
 Aflatoxin G₁, 673
 Boeravinone E, 2536
 Iriflogenin, 11152
 Irisoid A, 11166
- C₁₇H₁₂O₈**
 3,3',4-Tri-*O*-methyl ellagic acid, 21955
- C₁₇H₁₃NO**
 Hypodematine, 10891
- C₁₇H₁₃NO₃**
 10-Amino-2,4-dimethoxyphenanthrene-1-carboxylic acid lactam, 1049
 Aristolactam BII, 1695
 Graveoline, 8991
 4-Hydroxy-3-methoxy-*N*-methylaristolactam, 10416
Opuntin B, 16158
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- C₁₇H₁₃NO₄**
 Aristolactam FII, 1696
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 Goniotalactam, 8945
 1-(4-Hydroxybenzoyl)-7-hydroxy-6-methoxyisoquinoline, 9825
 Hyoscyamine β -hydroxylase, 10873
 Piperlactam S, 17460
 Piperolactam B, 17464
 Piperolactam D, 17466
- C₁₇H₁₃NO₅**
 Aristoliukine A, 1711
- C₁₇H₁₃O₉S**
 Quercetin-3-methyl-7-methyl ether-4'-sulfate, 18349
- C₁₇H₁₃O₁₀S**
 Persicarin-7-methylether, 16991
- C₁₇H₁₃O₁₁^{S-}**
 Centradixin, 3398
- C₁₇H₁₄N₂**
 Ellipticine, 6759
 Olivacine, 16085
- C₁₇H₁₄N₂O₂**
 Luotonin D, 13087
- C₁₇H₁₄N₂O₃**
 Pedatisectine C, 16760
- C₁₇H₁₄O₂**
 2,7-Dihydroxy-1-methyl-5-vinylphenanthrene, 6046
 2-(2-Phenylethyl) chromone, 17113
- C₁₇H₁₄O₃**
 6-Hydroxy-2-(2-phenylethyl) chromone, 10616

- 7-Hydroxy-2-(2-phenylethyl)chromone, 10617
 7-Methoxy-2-methyl isoflavone, 14025
 Sterehirsutinal, 20332
 Typharin, 22156
- C₁₇H₁₄O₄**
 5,8-Dihydroxy-2-(2-phenylethyl)chromone, 6082
 6,8-Dihydroxy-2-(2-phenylethyl)chromone, 6083
 2',5'-Dimethoxyflavone, 6225
 3',4'-Dimethoxyflavone, 6226
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 6-Hydroxy-2-(2-hydroxy-2-phenylethyl)chromone, 10210
 6-Hydroxy-2-[2-(2-hydroxyphenyl)ethyl]chromone, 10211
 6-Hydroxy-2-[2-(4-hydroxyphenyl)ethyl]chromone, 10212
 5-Hydroxy-7-methoxy-6-methylflavone, 10424
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 9-Hydroxymicroperforanone, 10527
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O-Methylalbergin, 14280
- C₁₇H₁₄O₅**
 Afrormosin, 676
 Desmosflavone, 5270
 7,4'-Dimethoxy-3'-hydroxyflavone, 6240
 7,4'-Dimethoxy-5-hydroxyisoflavone, 6243
 3-(4-Hydroxybenzylidene)-5-hydroxy-7-methoxychroman-4-one, 9844
 3'-Hydroxy-4',5'-dimethoxyflavone, 10023
 5-Hydroxy-4',7-dimethoxyflavone, 10024
 5-Hydroxy-6,7-dimethoxyflavone, 10025
 5-Hydroxy-7,8-dimethoxyflavone, 10026
 7-Hydroxy-3,5-dimethoxyflavone, 10027
 7-Hydroxy-5,8-dimethoxyflavone, 10028
 1-Hydroxy-2,3-dimethoxy-7-methyl-9,10-anthraquinone, 10032
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 1-Methoxy-2-methoxymethyl-3-hydroxyanthraquinone, 13998
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 2'-*O*-Methylabronisoflavone, 14109
 8-*o*-Methylreyusi, 14713
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 Pterocarpin, 18103
 Robustaquinone B, 18870
- C₁₇H₁₄O₆**
 Abrectorin, 11
trans-3-Acetoxy-5,7-dihydroxyflavanone, 165
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 Cirsimaritin, 3745
 5,3'-Dihydroxy-7,4'-dimethoxyflavone, 5829
 5,8-Dihydroxy-6,7-dimethoxyflavone, 5830
- 2',7'-Dihydroxy-4',5'-dimethoxyisoflavone, 5834
 3',7'-Dihydroxy-4',6-dimethoxyisoflavone, 5835
 1,3-Dihydroxy-5,6-dimethoxy-2-methyl-9,10-anthraquinone, 5836
 1,7-Dihydroxy-3,9-dimethoxy pterocarpene, 5837
 3-(3,4-Dihydroxyphenyl)-2-propenoic acid (*Z,E*)-2-(3,4-dihydroxyphenyl) ethenyl ester, 6095
 3-(3,4-Dihydroxyphenyl)-2-propenoic acid (*Z,E*)-2-(3,5-dihydroxyphenyl) ethenyl ester, 6096
 5,15-Dimethylmorindol, 6376
 Gnaphaliin, 8865
 3-(4-Hydroxybenzylidene)-5,7-dihydroxy-6-methoxychroman-4-one, 9843
 5-Hydroxy-7-methoxy-3',4'-methylenedioxyisoflavone, 10420
 (–)-3-Hydroxy-4-methoxy-8-9-methylenedioxy pterocarpin, 10421
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 Kaempferol-3,4-di-*O*-methyl ether, 12044
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- C₁₇H₁₄O₇**
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 3,3'-Dimethylquercetin, 6402
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- C₁₇H₂₃NO₄**
 Anisodamine, 1287
- C₁₇H₂₃NO₅**
 Nilgirine, 15596
- C₁₇H₂₃NO₅S**
 Sakambullin, 19169
- C₁₇H₂₄N₂**
N-Methyllycodine, 14571
- C₁₇H₂₄N₂O**
 β -Obscurine, 15890
- C₁₇H₂₄O**
 Falcarinol, 7709
 Panaxynol, 16598
- C₁₇H₂₄O₂**
 1 β ,13-Dihydroxy-8,11,13-podocarpatriene, 6099
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- C₁₇H₂₄O₃**
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 6-Shogaol, 19846
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- C₁₇H₂₄O₄**
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- C₁₇H₂₄O₅**
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 8 α -Acetoxy-1 β -hydroxyeudesm-3-en-5 α ,6 β ,7 α ,11 β *H*-12,6-olide, 217
 1-Acetoxy-6 α -hydroxy-4 α *H*-1,10-secoeudesma-5(10),11(13)-dien-12,8 β -olide, 236
 6- α -Acetyl-4-*O*-oxobedfordiaic acid, 474
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- C₁₇H₂₄O₆**
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- C₁₇H₂₄O₇**
 8- β -Acetoxyhysterone C, 239
- C₁₇H₂₄O₈**
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- C₁₇H₂₄O₉**
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 2-*O*- β -*D*-glucosyloxy-4-methoxybenzenepropanoate, 14470
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- C₁₇H₂₄O₁₀**
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 8-Epiapodantheroside, 6829
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 3-*O*-(β -*D*-Glucopyranosyl)-1-(3',5'-dimethoxy-4'-hydroxyphenyl)-1-propanone, 8624
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- C₁₇H₂₄O₁₄**
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- C₁₇H₂₅ClO₃**
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- C₁₇H₂₅NO**
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- C₁₇H₂₅NO₂**
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- C₁₇H₂₅NO₃**
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- C₁₇H₂₅NO₄**
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 6-Hydroxydendroxine, 9984
 Stemonine, 20307
- C₁₇H₂₅NO₇**
 6,7-Dihydroxy-1,1-dimethyl-*N*-(6'-fructopyranosyl)-1,2,3,4-tetrahydroisoquinoline, 5854
- C₁₇H₂₆N₂O**
 α -Obscurine, 15889
- C₁₇H₂₆O₂**
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- C₁₇H₂₆O₃**
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- C₁₇H₂₆O₄**
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- C₁₇H₂₆O₅**
 1 β -Acetoxy-11,12-epoxy-6-drimen-8 α ,11 α -diol, 182
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- C₁₇H₂₆O_{6S}**
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- C₁₇H₂₆O₇**
 (*Z*)-5'-Hydroxyjasnone 5'-*O*- β -*D*-glucopyranoside, 10268
- C₁₇H₂₆O₉**
 Deoxyloganin, 5191
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- C₁₇H₂₆O₁₀**
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 1'-(3-Hydroxy-4,5-dimethoxyphenyl)propane-2',3'-diol 3'-*O*- β -*D*-glucopyranoside, 10039
 loganin, 12950
 (1'*R*,2'*R*)-4-*O*-Methylguaiaicyl glycerol 3'-*O*- β -*D*-glucopyranoside, 14476
 Mussaenoside, 15133
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- C₁₇H₂₆O₁₁**
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 4-(1,2,3-Trihydroxypropyl)-2,6-dimethoxyphenyl-1-*O*- β -*D*-glucopyranoside, 21840
- C₁₇H₂₆O₁₂**
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- C₁₇H₂₆O₁₃**
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- C₁₇H₂₇NO₂**
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- C₁₇H₂₇NO₃**
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 6-Phenylundecane, 17139
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- C₁₇H₂₈O₄**
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- C₁₇H₂₈O₆**
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- C₁₇H₃₀O**
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- C₁₇H₃₀O₆**
 (1*R**,2*R**,3*R**,6*R**,7*R**)1,2,3,6,7-Pentahydroxy-1-acetoxy-bisabol-10(11)-ene, 16837
 (1*R**,2*R**,3*R**,6*R**,7*R**)1,2,3,6,7-Pentahydroxy-2-acetoxy-bisabol-10(11)-ene, 16838
- C₁₇H₃₀O₁₀**
 (*E*)-2-Hexenyl- α -*L*-arabinopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 9525
- C₁₇H₃₀O₁₂**

- 3-Methylbutanoyl-6-*O*- α -*D*-glucopyranosyl- β -*D*-fructofuranosideand, 14167
- C₁₇H₃₀O₁₅**
 β -*D*-Xylopyranosyl-(1 \rightarrow 6)- α -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 22825
- C₁₇H₃₁N₃O₂**
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 8-Heptadecenal, 9384
- C₁₇H₃₂O₃**
 Muricatacin, 15082
- C₁₇H₃₄**
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- C₁₇H₃₆**
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- C₁₇H₃₆O**
 1-Heptadecanol, 9379
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- C₁₈H₈O₆**
 Erosnine, 7289
- C₁₈H₁₀N₂O₄**
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- C₁₈H₁₀O₅**
 Pongaglabrone, 17707
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 Euphorbetin, 7615
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- C₁₈H₁₀O₉**
 Eckstolonol, 6701
- C₁₈H₁₁NO₄**
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 Lanuginosine, 12497
- C₁₈H₁₁NO₅**
 7-Oxohernangerine, 16344
- C₁₈H₁₁N₃O**
 (*E*)-2-[(3'-Indole)cyanomethylene]-3-indolinone, 11030
- C₁₈H₁₂**
 (*Z*)-1,1'-Biindenyliden, 2370
- C₁₈H₁₂O₃**
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- C₁₈H₁₂O₄**
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- C₁₈H₁₂O₅**
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 3',4'-Methylenedioxy-(2",3":7,8)-furanoflavanone, 14368
- C₁₈H₁₂O₆**
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- C₁₈H₁₂O₇**
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- C₁₈H₁₂O₉**
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 Parmatic acid, 16673
- C₁₈H₁₃NO₃**
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- C₁₈H₁₃NO₄**
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- C₁₈H₁₃NO₇**
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- C₁₈H₁₃N₃O**
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- C₁₈H₁₃N₃O₃**
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- C₁₈H₁₄O₃**
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- C₁₈H₁₄O₈**
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- C₁₈H₁₅KO₈**
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- C₁₈H₁₅O₈⁻**
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- C₁₈H₁₇ClO₆**
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- C₁₈H₁₇NO**
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- C₁₈H₁₇NO₂**
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- C₁₈H₁₇NO₄**
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- C₁₈H₁₇N₃O₄**
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- C₁₈H₁₇O₇⁺**
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- C₁₈H₁₈N₂O₃**
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- C₁₈H₁₈N₂O₄**
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- C₁₈H₁₈O**
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- C₁₈H₁₈O₂**
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 4-[(2*S*,3*S*)-3-Methyl-7-((*E*)-1-propenyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,3-benzenediol, 14689
- C₁₈H₁₈O₅**
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- C₁₈H₁₈O₆**
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- C₁₈H₁₈O₈**
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 2,3-Dihydroirigenin, 5647
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 Eurycolactone B, 7640
- C₁₈H₁₉NO₂**
 Lirinidine, 12915
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- 1-[1-Oxo-7(3,4-methylenedioxyphenyl)-2*E*,4*E*,6*E*-heptatrienyl]pyrrolidine, 16383
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- C₁₈H₁₉NO₅**
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- C₁₈H₁₉NO₇**
 Glyfoline, 8848
- C₁₈H₁₉NO₁₁**
 Ebracteolatinoside A, 6671
- C₁₈H₁₉N₃O**
N-(2-Methylaminobenzoyl)tryptamine, 14135
- C₁₈H₂₀ClNO₅**
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- C₁₈H₂₀ClN₃O₆S₂**
 Sporidesmin, 20234
- C₁₈H₂₀N₂**
 Tabernoschizine, 20578
- C₁₈H₂₀N₂O₄**
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- C₁₈H₂₀N₂O₆**
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- C₁₈H₂₀O₂**
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- C₁₈H₂₀O₃**
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- C₁₈H₂₀O₄**
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 3''-Hydroxy-4-epi-larreatricin, 10077
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- C₁₈H₂₀O₆**
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- Eurycolactone C, 7641
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 5 α ,6 β ,7 β -Trihydroxy-8 α -methoxy-2-(2-phenylethyl)-5,6,7,8-tetrahydro chromone, 21785
- C₁₈H₂₀O₇**
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 Protosappanin C dimethyl acetal, 17989
 5 α ,6 β ,7 β ,8 α -Tetrahydroxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydrochromone, 21131
- C₁₈H₂₀O₈**
 Inumakilactone A, 11113
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- C₁₈H₂₁NO₃**
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- C₁₈H₂₁NO₄**
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 3-*O*-Acetylsanguinine, 506
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- C₁₈H₂₁NO₅**
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 (+)-Undulatine, 22229
 (-)-Undulatine, 22230
- C₁₈H₂₁NO₆**
 Haploperine, 9223
 11- β -Hydroxycephalotaxine β -*N*-oxide, 9902
- C₁₈H₂₂ClNO₆**
 Acutumidine, 602
- C₁₈H₂₂NO⁺**
N-(*p*-Hydroxyphenethyl)actinidine, 10601
- C₁₈H₂₂NO₂**
 Valerianae alkaloid B, 22317
- C₁₈H₂₂NO₄⁺**
O-Methylptelefolonium, 14705
- C₁₈H₂₂N₂O**
 (+)-Manilamine, 13501
- C₁₈H₂₂N₂O₂**
 Dehydroodorine, 4955
- C₁₈H₂₂O**
 2,2-Dimethyl-8-prenyl-6-vinylchromene, 6399
- C₁₈H₂₂O₂**
 Deoxodehydrocyclopiloselloidone, 5142
 Estrone, 7387
 1-(7-Hydroxy-2,6-dimethyl-1-naphthyl)-4-methyl-3-pentanone, 10052
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- C₁₈H₂₂O₃**
 Cyclopiloselloidone, 4530
 3 β ,12-Dihydroxy-13-methyl-5,8,11,13-podocarpatetraen-7-one, 6045
 FB4, 7745
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- C₁₈H₂₂O₄**
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 (1a*S**,1b*S**,7a*S**,8a*S**)-4,5-Dimethoxy-1a,7a-dimethyl-1,1a,1b,2,7,7a,8,8a-octahydrocyclopropa[3,4]cyclopenta[1,2-*b*]naphthalene-3,6-dione, 6221
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- C₁₈H₂₂O₅**
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 1 β ,14-Dihydroxy-13-methoxy-8,11,13-podocarpatriene-2,7-dione, 5999
 Eurycolactone D, 7642
 Laurycolactone A, 12575
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- C₁₈H₂₂O₆**
 Arteanomalactone, 1788
 2,5-Dimethyl-3-*O*- β -*D*-glucopyranosylnaphthol, 6352
- C₁₈H₂₂O₇**
 Nagilactone J, 15235
- C₁₈H₂₂O₈**
 Buergeriside B₁, 2710
- Buergeriside B₂, 2711
 Ningposide D, 15621
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- C₁₈H₂₂O₉**
 Ethyl chlorogenate, 7425
 6 β -*C*-Glucopyranosyl-5,7-dihydroxy-2-isopropylchromone, 8618
 8 β -*C*-Glucopyranosyl-5,7-dihydroxy-2-isopropylchromone, 8619
 Inumakilactone C, 11116
 Methyleneidioside A, 14246
 Ningposide A, 15618
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- C₁₈H₂₂O₁₀**
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- C₁₈H₂₂O₁₁**
 Asperuloside, 1892
- C₁₈H₂₂O₁₁S**
 Paederoside, 16516
- C₁₈H₂₃NO**
 (*E*)-3-(3-Hydroxymethyl-2-butenyl)-7-(3-methyl-2-butenyl)-1*H*-indole, 10473
N-Isobutyl-2*E*,4*E*,12*E*-tetradecatrien-8,10-diyamide, 11288
N-Isobutyl-2*E*,4*E*,12*Z*-tetradecatrien-8,10-diyamide, 11289
- C₁₈H₂₃NO₂**
 Cocculidine, 3862
 3,3-Dimethylallyl-4-methoxy-2-quinolone, 6308
 Isococculidine, 11337
 2-(Nonan-8-one)-(1*H*)-4-quinolone, 15691
- C₁₈H₂₃NO₃**
 Coccutrine, 3865
 Futoamide, 8035
 1-Hydroxycryprochine, 9948
 (3*Z*,5*Z*)-*N*-Isobutyl-8-(3',4'-methylenedioxyphenyl)-heptadienamamide, 11280
O-Methylmaritidine, 14578
 Piperamide C 7:1(6*E*), 17434
- C₁₈H₂₃NO₄**
 Haplophyllidine, 9224
 Isostemonamine, 11719
 Lycorenine, 13237
O-Methylacutifolin, 14121
 Papyramine, 16634
- C₁₈H₂₃NO₅**
 (*E*)-Seneciophylline, 19712
- C₁₈H₂₃NO₆**
 Dechloroacutumidine, 4846
 Riddelline, 18842
- C₁₈H₂₃N₃O₂**
 Picrasidine K, 17303

- C₁₈H₂₃N₃O₂S₂**
Polanrazine B, 17604
- C₁₈H₂₄NO₅⁺**
Veprisinium, 22380
- C₁₈H₂₄N₂O₂**
Anticancer Amide PMV70P691-052, 1382
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- C₁₈H₂₄N₂O₃**
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(+)-Odorinol, 16003
- C₁₈H₂₄O**
Backuchiol, 2081
2,6-Diprenyl-4-vinylphenol, 6499
- C₁₈H₂₄O₂**
3 β ,12-Dihydroxy-13-methyl-6,8,11,13-podocarpetraen, 6044
 α -Estradiol, 7383
 β -Estradiol, 7384
Octadeca-8,10,12-triynoic acid, 15955
Przewalskin, 18008
- C₁₈H₂₄O₃**
3-(3',7'-Dimethyl-2',6'-octadienyl)-4-methoxybenzoic acid, 6383
Estriol, 7386
Piloselloidone, 17367
- C₁₈H₂₄O₄**
3 β ,14-Dihydroxy-13-methoxy-8,11,13-podocarpatrien-7-one, 6000
Hydroxyisopiloselloidone, 10254
3 β -Hydroxy-13-methoxy-8,12-podocarpadiene-11,14-dione, 10455
18-Hydroxy-13-methoxy-8,12-podocarpadiene-11,14-dione, 10456
Hydroxypiloselloidone, 10646
Ialibinone E, 10933
Miliusol, 14852
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- C₁₈H₂₄O₅**
rel-2*R*-Methyl-5*S*-acetoxy-4*R*-furanogermacrol(10*Z*-en-6-one, 14115
- C₁₈H₂₄O₆**
8-Acetoxy-2-methoxy-10-hydroxy-3,11(13)-guaiadien-12,6-olide, 251
- C₁₈H₂₄O₇**
(2*S*)-4',4'-Dimethoxy-ongokein, 6271
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Renifolin, 18620
- C₁₈H₂₄O₈**
Celephtalide A, 3372
- C₁₈H₂₄O₉**
Tenuifoliside D, 20958
- C₁₈H₂₄O₁₀**
Dracunculifoside E, 6584
3'-*O*- β -Glucopyranosyl plumbagic acid methyl ester, 8713
Regaloside A, 18571
Regaloside D, 18573
- C₁₈H₂₄O₁₂**
10-*O*-Acetylmonotropein, 470
6-*O*-Acetylscandoside, 507
Asperulosidic acid, 1894
6-*O*-Epiacetylscandoside, 6869
- C₁₈H₂₄O₁₂S**
Paederosidic acid, 16517
- C₁₈H₂₅NO**
Dehydro- γ -sanshool, 4967
N-Isobutyl-2*E*,4*E*,10*E*,12*Z*-tetradecatetraen-8-ynamide, 11287
- C₁₈H₂₅NO₂**
Isolobinine, 11507
- C₁₈H₂₅NO₅**
Integerrimine, 11091
Isostemotinine, 11720
Senecionine, 19706
Senecivermine, 19714
Stemotinine, 20308
3 α -(3',4',5'-Trimethoxybenzoyloxy)tropane, 21896
- C₁₈H₂₅NO₅S**
O-Methylsakambullin, 14715
- C₁₈H₂₅NO₆**
Angularine, 1242
Crotalaburnine, 4266
Jacobine, 11809
Mucronatinine, 15018
Retrorsine, 18667
Usaramine, 22277
- C₁₈H₂₅NO₇**
Isatidine, 11189
Spectabiline, 20140
- C₁₈H₂₆O₂**
3 β ,12-Dihydroxy-13-methyl-8,10,13-podocarpatriene, 6043
(*Z*)-Octadec-12-ene-8,10-diyynoic acid, 15956
- C₁₈H₂₆O₃**
15,16-Bisnor-13-oxo-8(17),11*E*-labdadien-19-oic acid, 2488
14,18-Dihydroxy-13-methoxy-8,11,13-podocarpatriene, 5998
8 β -Ethoxy atractylenolide III, 7396
1-Methoxy-(9*R*,10*S*)-epoxyheptadecan-4,6-diyne-3-one, 13922
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- C₁₈H₂₆O₄**
Aurantiacone, 2007
n-Butyl-2-ethylbutylphthalate, 2793
2-(1 β -Geranyl-5 β -hydroxy-2'-oxocyclohex-3'-enyl)acetic acid, 8321
3-Teracrylmelazolide B, 20967
- C₁₈H₂₆O₅**
6- α -Acetyl-4-*O*-oxobedfordiaic methyl ester, 475
1 β -Hydroxy-8 β -acetoxycostic acid methyl ester, 9754
1 β -Hydroxy-8 β -acetoxysisocostic acid methyl ester, 9756
3-Teracrylmelazolide A, 20966
- C₁₈H₂₆O₈**
(*E*)-4-(3,4-Dimethoxyphenyl)but-3-en-1-*O*- β -D-glucopyranoside, 6278
4-Hydroxy-2-[(*E*)-4-hydroxy-3-methyl-2-butenyl]-5-methylphenyl β -D-glucopyranoside, 10198
(*S*)-4-(4-Hydroxyphenyl)-2-butanol
2-*O*-(6-*O*-acetyl)- β -D-glucopyranoside, 10610
- C₁₈H₂₆O₉**
Icariside H₁, 10954
- C₁₈H₂₆O₁₀**
Benzyl alcohol *O*- β -D-primveroside, 2278
Benzyl alcohol β -D-(2'-*O*- β -xylopyranosyl)glucopyranoside, 2279
Icariside F₂, 10953
- C₁₈H₂₆O₁₁**
3'-*O*-Acetylloganic acid, 454
4'-*O*-Acetylloganic acid, 455
6'-*O*-Acetylloganic acid, 456
7'-*O*-Acetylloganic acid, 457
6-*O*-Methyldeacetylasperulosidic acid methyl ester, 14282
2-*C*-Methyl-*D*-erythritol 1-*O*- β -D-(6-*O*-4-hydroxybenzoyl)glucopyranoside, 14426
8-*O*-Methylmonotropein methyl ester, 14605
6-*O*-Methylscandoside methyl ester, 14722
Oleoside dimethyl ester, 16071
Orcinol-1-*O*- β -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 16170
Secologanoside dimethyl ester, 19625
- C₁₈H₂₆O₁₂**
8-*O*-Acetylshanzhiside, 509
Canthoside C, 3101
Canthoside D, 3102
Digupigan A, 5534
4-Hydroxyphenyl- β -gentiobioside, 10623
- C₁₈H₂₇NO**
(2*E*,4*E*,8*E*,10*E*,12*E*)-*N*-Isobutyl-2,4,8,10,12-tetradecapentaenamide, 11286
- C₁₈H₂₇NO₃**

- Capsaicin, 3141
Lycophlegmarine, 13220
- C₁₈H₂₇NO₄**
L-3 α ,6 β -Ditigloyloxytropane, 6525
 ω -Hydroxycapsaicin, 9888
Lycofawcine, 13192
Lycoposerramine N, 13233
- C₁₈H₂₇NO₅**
7-Hydroxy-3,6-bis(tigloyloxy)tropane, 9856
Platyphylline, 17546
Sarracine, 19388
- C₁₈H₂₇NO₆**
Rosmarinine, 18926
Trichodesmine, 21560
- C₁₈H₂₇NO₇**
Sceleratine, 19461
Syneilesine, 20551
- C₁₈H₂₈N₂O₂**
Serratimidine, 19772
- C₁₈H₂₈O₂**
Octadeca-8,10-diynoic acid, 15947
Parinaric acid, 16667
1-Undecylenyl-3,4-methylenedioxybenzene, 22227
- C₁₈H₂₈O₃**
15,16-Bisnor-13-oxo-8(17)-labden-19-oic acid, 2489
2-Dehydroxy-5-*O*-methylembelin, 4987
Licanic acid, 12748
Panaquinquecol 1, 16586
- C₁₈H₂₈O₄**
5-*O*-Methylembelin, 14347
- C₁₈H₂₈O₅**
3 α -Acetoxydiversifolol, 175
3 α -Acetoxy-4 α -hydroxy-11(13)-eudesmen-12-oic acid methyl ester, 216
- C₁₈H₂₈O₈**
Celephtalide C, 3374
4-Hydroxy-2-[3-hydroxy-3-methylbutyl]-5-methylphenyl β -*D*-glucopyranoside, 10200
- C₁₈H₂₈O₉**
(1*R*,2*R*)-5'-Hydroxyjasmonic acid 5'-*O*- β -*D*-glucopyranoside, 10270
Nuezhengalaside, 15865
Qingjueine I, 18289
Tuberonic acid glucoside, 22078
- C₁₈H₂₈O₁₁**
3-Epiphlomurin, 6998
Lamioside, 12464
7-*O*-Methyl morroniside, 14607
Phlomurin, 17167
- C₁₈H₂₈O₁₂**
Repenoside, 18626
- C₁₈H₂₉NO**
Lanyuamide III, 12500
- C₁₈H₂₉NO₂**
O-Acetyl-dihydrolycopodine, 379
Bungeanol, 2745
(2*E*,4*E*,8*Z*,11*E*)-2'-Hydroxy-*N*-isobutyl-2,4,8,11-tetradecatetraenamide, 10236
(2*E*,4*E*,8*Z*,11*Z*)-2'-Hydroxy-*N*-isobutyl-2,4,8,11-tetradecatetraenamide, 10237
5-Hydroxy-2-methyl-6-(11'-oxododecyl)pyridine, 10510
Lanyuamide II, 12499
- C₁₈H₂₉NO₃**
Dihydrocapsaicin, 5553
Fawcettiine, 7741
5-Hydroxy-2-methyl-6-(11'-oxododecyl)pyridine *N*-oxide, 10511
Lycoclavine, 13187
- C₁₈H₂₉NO₇**
Croalbidine, 4244
- C₁₈H₃₀**
2-Phenyldodecane, 17105
3-Phenyldodecane, 17106
4-Phenyldodecane, 17107
5-Phenyldodecane, 17108
6-Phenyldodecane, 17109
- C₁₈H₃₀N₂O₃**
Chinese bitter-sweet alkaloid II, 3537
- C₁₈H₃₀O**
2,4,6-Tri-*t*-butyl phenol, 21550
- C₁₈H₃₀O₂**
 α -Eleostearic acid, 6748
Gorlic acid, 8955
Linolenic acid, 12893
(*Z*)-7-Octadecen-9-ynoic acid, 15958
Trichosanic acid, 21576
- C₁₈H₃₀O₃**
13(*R*)-Hydroxy-octadeca-(9*Z*,11*E*,15*Z*)-trien-oic acid, 10546
Hygrophorone F¹², 10841
Hygrophorone G¹², 10842
- C₁₈H₃₀O₄**
Auxin B, 2028
Hygrophorone C¹², 10839
Hygrophorone D¹², 10840
6-Methylgingediol, 14464
- C₁₈H₃₀O₅**
1-*O*-Acetyl hygrophorone E¹⁰, 435
- C₁₈H₃₀O₈**
Dictamnosiide N, 5455
(1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol
1-*O*- β -*D*-(2-*O*-acetyl)glucopyranoside, 13745
(1*R*,2*R*)-*p*-Menth-4(5)-ene-1,2-diol
- 1-*O*- β -*D*-(6-*O*-acetyl)glucopyranoside, 13746
- C₁₈H₃₁NO**
N-Methyl-6 β -(deca-1',3',5'-trienyl)-3 β -methoxy-2 β -methylpiperidine, 14284
- C₁₈H₃₁NO₂**
Dihydrobungeanol, 5549
Lanyuamide I, 12498
- C₁₈H₃₁NO₄**
Broussonetine W, 2645
- C₁₈H₃₁NO₆**
Broussonetine R, 2639
- C₁₈H₃₁N₃O₃**
Palustridine, 16573
- C₁₈H₃₂O**
9,12-Octadecadienal, 15938
- C₁₈H₃₂O₂**
Chaulmoogric acid, 3485
Isolinolic acid, 11503
cis-9,*cis*-12-Linoleic acid, 12891
trans-9,*trans*-12-Linoleic acid, 12892
Malvic acid, 13455
Micromolide, 14842
10,13-Octadecadienoic acid, 15941
- C₁₈H₃₂O₃**
(*S*)-Coriolic acid, 4056
Coronaric acid, 4079
(\pm)-12,13-Epoxyoleic acid, 7180
- C₁₈H₃₂O₄**
Hygrophorone A¹², 10836
- C₁₈H₃₂O₅**
Auxin A, 2027
- C₁₈H₃₂O₁₁**
(*E*)-2-Hexenyl- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 9529
- C₁₈H₃₂O₁₆**
Gentianose, 8298
1-Kestose, 12195
Manninotriose, 13503
Neokestose, 15424
Nigellamose, 15567
Panose, 16619
Panose B, 16620
Panose C, 16621
Planteose, 17514
Raffinose, 18526
- C₁₈H₃₃NO₂**
Tetrahydrobungeanol, 21057
- C₁₈H₃₃NO₅**
Broussonetine U, 2642
Broussonetine U₁, 2643
Broussonetine V, 2644
- C₁₈H₃₄N₄O₁₂**
Argininy-fructosyl-glucose, 1674

- C₁₈H₃₄O₂**
 Elaidic acid, 6731
 Isooleic acid, 11574
 Oleic acid, 16066
 Petroselaic acid, 17021
 Petroselinic acid, 17022
 Vaccenic acid, 22305
- C₁₈H₃₄O₃**
 9-*D*-Hydroxy-*cis*-12-octadecenoic acid, 10547
 Ricinoleic acid, 18841
- C₁₈H₃₄O₅**
 Sanleng acid, 19295
 Tianshic acid, 21368
- C₁₈H₃₄O₁₁**
 Hexyl- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 9532
 Hexyl- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9533
- C₁₈H₃₅NO₂**
 (-)-Cassine, 3292
- C₁₈H₃₅NO₄**
 Morusimic acid B, 14990
 Morusimic acid D, 14992
 Morusimic acid F, 14994
- C₁₈H₃₅NO₇**
 Broussonetine T, 2641
- C₁₈H₃₆**
 3-Cyclohexyldodecane, 4498
- C₁₈H₃₆N₂O₅**
 Broussonetine J₂, 2637
- C₁₈H₃₆O**
 Hexahydrofarnesyl acetone, 9500
 9(*Z*)-Octadecen-1-ol, 15957
- C₁₈H₃₆O₂**
 Ethylpalmitate, 7469
 4-Methyl heptadecanoic acid, 14481
 14-Methyl hexadecanoic acid methyl ester, 14486
 Stearic acid, 20280
- C₁₈H₃₆O₄**
 9,10-Dihydroxystearic acid, 6132
- C₁₈H₃₇NO**
 Stearamide, 20279
- C₁₈H₃₇NO₅**
 Broussonetine M₁, 2638
- C₁₈H₃₇NO₆**
 Broussonetine S, 2640
- C₁₈H₃₈**
 n-Octadecane, 15948
- C₁₈H₃₈O**
 Octadecanol, 15950
- C₁₈H₃₈O₂**
 1,1-Diethoxy-*n*-tetradecane, 5500
erythro-2,3-Octadecane-diol, 15949
- C₁₈H₃₉NO₃**
 Phytosphingosine, 17273
- C₁₉H₁₁NO₄**
 Lettowianthine, 12707
 Norsanguinarine, 15793
- C₁₉H₁₁NO₆**
 Hypecoumine, 10880
Stephadione, 20313
- C₁₉H₁₂NO₅**
8-Oxocoptisine, 16302
- C₁₉H₁₂O₃**
 Anticancer Phenylphenalone PMV70P691-130, 1435
- C₁₉H₁₂O₆**
 Bhubaneswin, 2342
 Dehydroneotene, 4954
 Dicoumarin, 5440
 Dolineone, 6551
 Gamatin, 8124
 Pachyrrhizin, 16499
 Pongapin, 17714
- C₁₉H₁₂O₇**
 Daphnoretin, 4657
 5,8-Dihydroxy-7-(4-hydroxy-5-methyl-coumarin-3)-coumarin, 5918
 12 α -Hydroxydolineone, 10059
Isodaphnoretin, 11366
- C₁₉H₁₂O₈**
 Boennin, 2531
- C₁₉H₁₃NO₃**
 Evodianinine, 7666
- C₁₉H₁₃NO₄**
 Zanthoxyline, 22970
- C₁₉H₁₃NO₅**
 Nandazurine, 15243
- C₁₉H₁₃NO₆**
 Lindechunine A, 12860
- C₁₉H₁₄NO₄⁺**
 Coptisine, 4032
- C₁₉H₁₄N₂O**
 Nauclefine, 15305
- C₁₉H₁₄N₄**
 Bilatriene, 2373
- C₁₉H₁₄O₂**
 Sterequinone A, 20335
- C₁₉H₁₄O₅**
 Millettocalyxin C, 14858
 Pachycarin D, 16492
 Vulpinic acid, 22625
- C₁₉H₁₄O₆**
 9-Ethoxy-aristololactone, 7395
 3'-Hydroxy,3,5'-dimethoxy furo[8,7:4",5"]flavone, 10029
- 2-*O*-Methylatromentin, 14150
 Neotenone, 15462
- C₁₉H₁₄O₇**
 6-Aldehydo-isoophiopogone A, 875
 Anadanthoflavone, 1131
 Ophiopogonone C, 16149
- C₁₉H₁₄O₉**
 Stictic acid, 20342
- C₁₉H₁₄O₁₀**
 3,4-Methylenedioxy-3',4'-*O*-dimethyl-5,5'-dimethoxyellagic acid, 14365
- C₁₉H₁₄O₁₂**
 Ellagic acid-4-*O*- β -*D*-xylopyranoside, 6758
- C₁₉H₁₅NO₃**
N-Acetyldehydroanonaine, 370
- C₁₉H₁₅NO₄**
 Artabonatine C, 1771
 Berberrubine, 2304
 Cepharadione B, 3409
 Griffinin, 9002
 Griffithdione, 9006
 Menisporphine, 13717
O-Methylmoschatoline, 14608
- C₁₉H₁₅NO₅**
 Artabonatine E, 1773
 9-Ethoxy-aristololactam, 7394
 7-Oxoernagine, 16342
- C₁₉H₁₅NO₆**
 Integriamide, 11093
- C₁₉H₁₅N₃O**
 Angustidine, 1244
 Dehydroevodiamine, 4912
- C₁₉H₁₅N₃O₂**
 14-Formyldihydrotutaecarpine, 7902
 1-Methoxyrutataecarpine, 14086
- C₁₉H₁₆NO₄⁺**
 Groenlandicin, 9011
 Thalifendine, 21254
- C₁₉H₁₆N₂**
 Sempervirine II, 19697
- C₁₉H₁₆N₂O₃**
 Alangimarine, 831
 Daurioxoisoporphine C, 4691
 Nauclefoline, 15306
- C₁₉H₁₆N₂O₄**
 Daurioxoisoporphine B, 4690
- C₁₉H₁₆O₃**
 1,7-Bis(4-hydroxyphenyl)-1,4,6-heptatrien-3-one, 2469
 Δ^1 -Dehydrotanshinone, 4974
 Sterequinone C, 20337
- C₁₉H₁₆O₄**
 Anthrakunthone, 1364

- Bisdemethoxycurcumin, 2439
 Bis(4-hydroxycinnamoyl)methane, 2462
 2-(3,4-Methylenedioxyphenyl)-3-methyl-5-(2-oxopropyl)benzofuran, 14380
O-Methylpogonol, 14683
 Moracin D, 14956
 Moracin E, 14957
 Moracin G, 14959
 Sterequinone E, 20339
 Tanshinoldehyde, 20678
- C₁₉H₁₆O₅**
 Combretastatin D₃, 3940
 Linixanthone B, 12887
 Sarcomeginal, 19359
 Vitrofolal E, 22594
- C₁₉H₁₆O₆**
 6-Aldehyde-isoophiopogone B, 876
 Caledonixanthone E, 2962
 Psorospermin, 18091
 Tournefoliac acid B ethyl ester, 21480
 Vitrofolal F, 22595
- C₁₉H₁₆O₇**
 Hemerocallone, 9340
 2'-Hydroxymethylphopogonone A, 10509
 Ophiopogonone C, 16138
- C₁₉H₁₆O₉**
 9'-(*O*-Methyl)protocetraric acid, 14697
 3,6,8-Trimethoxy-5,7-dihydroxy-3',4'-methylenedioxyflavone, 21911
- C₁₉H₁₆O₁₁**
 Thamnic acid, 21271
- C₁₉H₁₇NO₃**
N-Acetylanonaine, 322
 Cusparine, 4421
 Dehydrostephalagine, 4970
N-Demethyl-acronycine, 5057
 Noracronycine, 15707
 Rutacridone, 19077
- C₁₉H₁₇NO₄**
 Crychine, 4277
N-Methyl ovigerine, 14640
 Neolitsine, 15431
 Reframidine, 18570
 Romucosine, 18900
 Rutacridone epoxide, 19078
 Stylopine, 20416
 (-)-Tetrahydrocoptisine, 21061
- C₁₉H₁₇NO₅**
 Cassythidine, 3295
 (-)-12-Hydroxycrychine, 9947
 Norimelutein, 15762
 Pendulamine B, 16800
- C₁₉H₁₇NO₅⁺**
 Thalidastine, 21252
- C₁₉H₁₇N₃**
 Naufoline, 15315
- C₁₉H₁₇N₃O**
 Evodiamine, 7665
- C₁₉H₁₇N₃O₂**
 GoshuyamideII, 8958
 Hydroxyevodiamine, 10117
- C₁₉H₁₇O₁₃S**
 1,3-Dihydroxy-5-*O*-β-*D*-glucopyranosyl-xanthone-4-sulfonate, 5901
- C₁₉H₁₈ClNO₄**
 Gravacridonechlorine, 8984
 Romucosine B, 18902
- C₁₉H₁₈ClNO₅**
 Gravacridonolchlorine, 8987
- C₁₉H₁₈NO₄⁺**
 Dehydrocoreximine (perchlorate), 4886
 Stepharine, 20321
- C₁₉H₁₈N₂O₄**
 Alamarine, 828
- C₁₉H₁₈O**
 Alnustone, 966
- C₁₉H₁₈O₃**
 Alnusone, 963
 1,7-Bis(4-hydroxyphenyl)hepta-4*E*,6*E*-dien-3-one, 2468
 Isotanshinone IIA, 11731
 (7*R*,8*R*)-3,4-Methylenedioxy-4',7-epoxy-8,3'-neolignan-7'*E*-ene, 14367
 Tanshinone IIA, 20686
- C₁₉H₁₈O₄**
 Alnusoxide, 965
 Anticancer Benzofuran PMV70P691-005, 1387
 1,7-Bis(4-hydroxyphenyl)-1-heptene-3,5-dione, 2470
 Coniferyl cinnamate, 3986
 Demethylmoracin I, 5086
 1,2-Dihydrobis(de-*O*-methyl)-curcumin, 5548
 (2,3-*trans*-3,4-*trans*)-3,4-Dimethoxy-(2'',3'':7,8)-furanoflavan, 6229
 6,7-Dimethoxy-2-(2-phenylethyl) chromone, 6283
 Gobicusin B, 8904
 Hainanolide, 9194
 3α-Hydroxytanshinone IIA, 10736
 3β-Hydroxytanshinone IIA, 10737
 1-Keto-isocryptotanshinone, 12204
 4-Methoxy-2,2-dimethyl-6-(2-(2,4-dihydroxy)phenyl-*trans*-ethenyl)chromene, 13918
 6-Methoxy-2-[2-(3'-methoxyphenyl) ethyl] chromone, 13999
 6-Methoxy-2-[2-(4'-methoxyphenyl) ethyl] chromone, 14000
- Moracin C, 14955
 Moracin N, 14964
 Przewaquinone A, 18011
 Tanshinone IIB, 20687
- C₁₉H₁₈O₅**
 Ailanthoidol, 776
 Anticancer Benzofuran PMV70P691-64, 1388
 1,5-Bis(4-hydroxy-3-methoxyphenyl)-1,4-pentadien-3-one, 2467
 1,5-Dihydroxy-2-isoprenyl-3-methoxyxanthone, 5925
 1,7-Dihydroxy-2-isoprenyl-3-methoxyxanthone, 5926
 2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan, 6242
 Eucalyptin, 7480
 Globulixanthone D, 8556
 5-(3''-Hydroxypropyl)-7-methoxy-2-(3',4'-methylenedioxyphenyl)benzofuran, 10665
 6-Methoxy-2-[2-(3-methoxy-4-hydroxyphenyl) ethyl]chromone, 13997
 3-Methoxy-4-[(2*S*,3*R*)-3-methyl-7-(1-propynyl)-2,3-dihydro-1,4-benzodioxin-2-yl]-1,2-benzenediol, 14035
 1-*O*-Methylglobuxanthone, 14467
 Teysmannic acid, 21232
- C₁₉H₁₈O₆**
 Afzeliixanthone A, 679
 Celebixanthone, 3370
 2',3'-Epoxyisocapnolactone, 7149
 5-Hydroxy-3',4',7-trimethoxyspiro{2*H*-1-benzopyran-7'-bicyclo[4.2.0]octa[1,3,5]-trien}-4-one, 10676
 Luzonidial A, 13155
 Luzonidial B, 13156
 Methyl ophiopogonone A, 14635
 Qianhuocoumarin E, 18286
 Scriblitifolic acid, 19567
 5,7,2',3'-Tetramethoxyflavone, 21183
 5,7,3',4'-Tetramethoxyflavone, 21184
 5,7,8,4'-Tetramethoxyflavone, 21185
 7,2',3',4'-Tetramethoxyflavone, 21186
 Tetramethylscutellarein, 21202
 1,2,6-Trihydroxy-5-methoxy-7-(3-methylbut-2-enyl)xanthone, 21783
 Turgeniifolin A, 22119
- C₁₉H₁₈O₇**
 Anticancer Flavonoid PMV70P691-114, 1411
 Chrysoobtusin, 3612
 Cimracemate A, 3662
 Cimracemate B, 3663
 3'-Hydroxy-5,7,8,4'-tetramethoxyflavone, 10749

- 5-Hydroxy-3,6,7,4'-tetramethoxyflavone, 10750
 5-Hydroxy-6,7,3',4'-tetramethoxyflavone, 10751
 7-Hydroxy-5,6,8,4'-tetramethoxyflavone, 10752
 6-Hydroxy-7,2',4',5'-tetramethoxyisoflavone, 10753
 Hyperxanthone, 10890
 Mono-*O*-methylwightin, 14928
 Polygalolide A, 17637
 2,5,7-Trihydroxy-6,8-dimethyl-3-(3',4'-methyleneoxybenzyl)-chroman-4-one, 21722
- C₁₉H₁₈O₈**
 Arteanoflavone, 1787
 Atranorin, 1990
 Baeomycesic acid, 2101
 Casticin, 3300
 Chrysosplenetin, 3622
 Chrysosplenol E, 3625
 Chrysosplenol G, 3626
 3,5-Dihydroxy-6,7,3',4'-tetramethoxyflavone, 6146
 5,3'-Dihydroxy-3,7,4',5'-tetramethoxyflavone, 6147
 5,3'-Dihydroxy-6,7,4',5'-tetramethoxyflavone, 6148
 5,7-Dihydroxy-2',3',4',5'-tetramethoxyflavone, 6149
 5,7-Dihydroxy-6,8,2',3'-tetramethoxyflavone, 6150
 Eupatoretin, 7590
 Gephyromycin, 8308
 5,6,7,8,3',4'-Hexamethoxyflavone, 9510
 6-Methoxyboeravinone C, 13860
 Rosmarinic acid methyl ester, 18925
 Skullcapflavone II, 20009
 Ternatin, 20978
- C₁₉H₁₈O₉**
 Squamatic acid, 20238
- C₁₉H₁₈O₁₀**
 1,5-Dihydroxyxanthone-6-*O*- β -*D*-glucoside, 6184
 Lancerin, 12468
- C₁₉H₁₈O₁₁**
 5-*O*- β -*D*-Glucopyranosyl-1,3,8-trihydroxyxanthone, 8740
 Isomangiferin, 11524
 Mangiferin, 13481
 Norswertianolin, 15800
 1,3,7,8-Tetrahydroxyxanthone-1-*O*- β -*D*-glucopyranoside, 21172
 1,3,7,8-Tetrahydroxyxanthone-8-*O*- β -*D*-glucopyranoside, 21173
 Tripteroside, 21991
- C₁₉H₁₉NO₂**
 Drazepinone, 6598
 Koenimbine, 12249
 Stephanthrine, 20320
- C₁₉H₁₉NO₃**
 Clausine F, 3796
 Koenigine, 12248
 Stephalagine, 20316
 (-)-Stephalagine, 20317
 Stephanine, 20319
- C₁₉H₁₉NO₄**
 Amurensine, 1094
 Amurine, 1097
 Armatamide, 1737
 (-)-Ayuthianine, 2049
 Bulbocapnine, 2734
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- C₁₉H₂₅NO₄**
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 3*R**,4*R**-1-Hydroxy-3-isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]pyrrolidine-2,5-dione, 10234
 3*R**,4*S**-1-Hydroxy-3-isobutyl-4-[4-(3-methyl-2-butenyloxy)phenyl]pyrrolidine-2,5-dione, 10235
- C₁₉H₂₅NO₅**
 Acanthamolide, 76
 Nerinine, 15496
 Pyridostemin, 18260
- C₁₉H₂₅NO₆**
 Dechlorodauricumine, 4847
 1-Epidechloroacutumine, 6886
 Hernandine A, 9445
 Hernandine B, 9446
- C₁₉H₂₅NO₁₀**
 Vicianin, 22465
- C₁₉H₂₅NO₁₂**
 1-(2-Hydroxyphenylamino)-1-deoxy- β -gentiobioside 1,2-carbamate, 10609
- C₁₉H₂₆**
 19-Nordehydroabiet-4(18)-ene, 15736
- C₁₉H₂₆Cl₂O₁₁**
 Curculigin B, 4382
- C₁₉H₂₆N₂**
 Kamassine, 12120
- C₁₉H₂₆N₂O**
 Pareirine, 16660
- C₁₉H₂₆N₂O₃**
 Alstonoxine B, 1004
- C₁₉H₂₆N₂O₅**
 Saussureamine C, 19424
- C₁₉H₂₆O₂**
 Androst-4-ene-3,17-dione, 1169
- C₁₉H₂₆O₃**
 8-Acetoxyfalconin, 196
 Acetyl panaxydol, 479
 3,15-Dihydroxy-18-norabieta-3,8,11,13-tetraene, 6049
 4-Hydroxy-[2-*trans*-3',7'-dimethyl-octa-2',6'-dienyl]-6-methoxy-acetophenone, 10774
- C₁₉H₂₆O₃S**
 Spetasin, 20148
- C₁₉H₂₆O₄**
 1-[2',4'-Dihydroxy-3',5'-di-(3"-methylbut-2"-enyl)-6'-methoxy]phenylethanone, 5852
- C₁₉H₂₆O₅**
 AcronyculatinB, 572
 AcronyculatinC, 573
 1*R*,5*R*-Diacetoxycyclomyltaylan-10-one, 5290
 Rubrosterone, 19043
- C₁₉H₂₆O₆**
 Alatalide, 837
 6-Dehydroxylongilactone, 4986
 3,4-Dihydroeurycomalactone, 5609
 Eurycolactone E, 7643
 Eurycomalide A, 7647
 7 α -Hydroxyeurycomalactone, 10116
 Millefin, 14854
 Sipaucin B, 19962
- C₁₉H₂₆O₇**
 Anticancer Sesquiterpene PMV70P691-134, 1438
 Britanin, 2615
 3,4 β -Dihydrosamaderine C, 5706
 4 α ,10 α -Dihydroxy-3-oxo-8 β -isobutyryloxyguaia-11(13)-en-12,6 α -olide, 6064
 Eurycolactone G, 7645
 Inuchinenolide C, 11110
 Longilactone, 12964
 Orizabin, 16205
 Sipaucin A, 19961
 Sipaucin C, 19963
- C₁₉H₂₆O₈**
 Eurylactone A, 7653
- C₁₉H₂₆O₉**
 Hymenocide S, 10862
 Hymenocide T, 10863
- C₁₉H₂₆O₁₀**
 Hymenocide K, 10854
 Hymenocide Q, 10860
 Hymenocide R, 10861
 Ptelatoside A, 18099
 Ptelatoside C, 18101
- C₁₉H₂₆O₁₁**
 10-*O*-Acetylgeniposide, 397
 Bungeiside C, 2749
- 4-Hydroxyacetophenone 4-*O*-(6-*O*- β -*D*-apiofuranosyl)- β -*D*-glucopyranoside, 9750
 Hymenocide L, 10855
 Regalocide F, 18575
- C₁₉H₂₆O₁₂**
 10-Acetoxy majoroside, 250
 Bungeiside D, 2750
 Canthoside A, 3099
 Daphylloside, 4659
 Violutoside, 22521
- C₁₉H₂₆O₁₂S**
 Paederia glucoside 1*, 16514
 Paederia glucoside 3*, 16515
- C₁₉H₂₆O₁₃**
 Sibiricose A₃, 19864
- C₁₉H₂₆O₁₅**
 1-Galloyl- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 8107
- C₁₉H₂₇NO**
 1-Methyl-2-nonyl-4(1*H*)-quinolone, 14624
- C₁₉H₂₇NO₃**
 Nudicaulonol, 15862
- C₁₉H₂₇NO₄**
 Stemonamine, 20306
- C₁₉H₂₇NO₆**
 Senkirikine, 19731
- C₁₉H₂₇NO₇**
 Petasitenine, 17015
- C₁₉H₂₇NO₁₂**
 6'-*O*- β -*D*-Apiofuranosylthalicetoside, 1518
 6'-*O*- α -*L*-Arabinofuranosylthalicetoside, 1558
 Proteacin, 17963
- C₁₉H₂₈NO₂**
 Delavayine A, 4995
- C₁₉H₂₈O**
 18-Nordehydroabietan-4 α -ol, 15735
- C₁₉H₂₈O₂**
 5 α -Androstan-3,17-dione, 1165
 5 β -Androstan-3,17-dione, 1166
 3 α -Hydroxy-androst-4-ene-17-one, 9782
 3 β -Hydroxy-androst-5-ene-17-one, 9783
 16*BH*,17-Hydroxy-3-oxo-19-*nor-ent*-kaur-4-ene, 10567
 Pipataline, 17424
 Testosterone, 21022
- C₁₉H₂₈O₃**
 Agallochin I, 692
 10 α ,19-Dihydroxy-15,16-epoxy-8(17),13(16),14-*nor-ent*-labdatriene, 5876
 16 α ,17-Dihydroxy-3-oxo-19-*nor-ent*-kaur-4-ene, 6065
ent-15,16-Epoxy-3-oxa-kauran-2-one, 7181
- C₁₉H₂₈O₃S**

- S*-Japonine, 11822
- C₁₉H₂₈O₄**
 10β-Hydroxy-6β-isobutyryl furanoeremophilane, 10238
 Methyl 2-(1β-geranyl-5β-hydroxy-2'-oxocyclohex-3'-enyl)acetate, 14462
 13α,16α,17-Trihydroxy-9α-methyl-19,20-dinor-kauran-4-en-15-one, 21798
- C₁₉H₂₈O₅**
 6-Acetyl gingerol, 399
 Deisobutyryl bakkenolide H, 4989
- C₁₉H₂₈O₆**
 2-*O*-*n*-Butyrylpseudomajucin, 2812
 1-(4-Hydroxy-3-methoxyphenyl)-3,5-diacetoxyoctane, 10436
 Tagitinin D, 20611
- C₁₉H₂₈O₇**
 Eurycolactone F, 7644
 2α-Hydroxytirofundin, 10769
 Murrayacoumarin B, 15115
 Tagitinin A, 20609
- C₁₉H₂₈O₈**
 Excoecarioside B, 7694
- C₁₉H₂₈O₉**
 Corchoionoside B, 4034
 Icariside B₂, 10944
- C₁₉H₂₈O₁₀**
 Benzyl 6-*O*-*α*-*L*-rhamnopyranosyl-(1→6)β-*D*-glucopyranoside, 2296
 Icariside D₁, 10949
 Sayaendoside, 19432
- C₁₉H₂₈O₁₁**
 Cuchiloside, 4311
 2-*C*-Methyl-*D*-erythritol
 1-*O*-β-*D*-(6-*O*-4-methoxybenzoyl)glucopyranoside, 14427
 Osmanthuside H, 16254
 Phenyl ethanol 4-*O*-β-*D*-xylopyranosyl-(1→6)-β-*D*-glucopyranoside, 17110
 Zizybeoside I, 23011
- C₁₉H₂₈O₁₂**
 6-*O*-Acetylshanzhiside methyl ester, 510
 8-*O*-Acetylshanzhiside methyl ester, 511
 Cuneataside C, 4364
 Cuneataside D, 4365
 3,4-Dihydroxyphenylethanol-8-*O*-[β-*D*-apiofuranosyl(1→2)]-β-*D*-glucopyranoside, 6076
 3,4-Dihydroxyphenylethanol-8-*O*-[β-*D*-apiofuranosyl(1→3)]-β-*D*-glucopyranoside, 6077
 3,4-Dimethoxyphenol β-*D*-apiofuranosyl(1→6)-β-*D*-glucopyranoside, 6273
 2'-*O*-β-*D*-Glucopyranosylsalicin, 8731
 (1'*S*)-1'-(4-Hydroxyphenyl)ethane-1',2'-diol
 2'-*O*-β-*D*-Apiofuranosyl-(1→6)-β-*D*-glucopyranoside, 10605
 Ipolamiidoside, 11129
 Orcinol-1-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranoside, 16171
- C₁₉H₂₈O₁₃**
 Canthoside B, 3100
 Diderroside, 5477
- C₁₉H₂₉NO₃**
 Homocapsaicin, 9599
- C₁₉H₂₉NO₄**
 Ankorine, 1293
 Dendrine, 5107
- C₁₉H₃₀O**
ent-17-Norkauran-16-one, 15767
- C₁₉H₃₀O₂**
 Androsterone, 1170
 Ardisinol II, 1644
 CPB5212-1492-1, 4204
 3α-Hydroxy-5β-androstan-17-one, 9780
 3β-Hydroxy-5α-androstan-17-one, 9781
- C₁₉H₃₀O₃**
 Agallochin E, 688
 4α-Hydroxy-19-nor-*ent*-kauran-17-oic acid, 10542
 Tagalsin H, 20607
- C₁₉H₃₀O₄**
 5-*O*-Ethylembelin, 7436
 [8]-Gingerol, 8396
 9'-Oxopodopyrone, 16408
 10'-Oxopodopyrone, 16409
 Rapanone, 18546
 Vitedoin B, 22567
 Vitexifolin D, 22578
- C₁₉H₃₀O₅**
 Hedychiol B 8,9-diacetate, 9282
 Kessoglycol diacetate, 12192
 Shiromodiol diacetate, 19837
- C₁₉H₃₀O₇**
 14-*O*-*n*-Butyrylfloridanolide, 2809
 (6*S*,9*R*)-Deoxyroseoside, 5210
- C₁₉H₃₀O₈**
 Apocynoside I, 1529
 Austroside B, 2023
 Cannabiside E, 3086
 Citroside A, 3771
 Citroside B, 3772
 Corchoionoside C, 4035
 Glochidionioside C, 8567
 Glochidionioside D, 8568
 Icariside B₁, 10943
 Junipeionoloside, 11965
 (6*S*,9*R*)-Roseoside, 18918
 Roseoside II, 18919
 Saussureoside B, 19426
 Staphylionoside A, 20264
 Staphylionoside D, 20267
- C₁₉H₃₀O₉**
 Apocynoside II, 1530
 Austroside A, 2022
 Cannabiside D, 3085
 Glochidionioside A, 8565
 6-Hydroxy-junipeionoloside, 10271
 (1*R*,2*R*)-Methyl-5'-hydroxyjasmonate 5'-*O*-β-*D*-glucopyranoside, 14510
 Sauroposide, 19418
 Saussureoside A, 19425
 Spionoside A, 20173
 Spionoside B, 20174
 (1*R*,6*R*,9*S*)-6,9,11-Trihydroxy-4,7-megastigmadien-3-one 11-*O*-β-*D*-glucopyranoside, 21765
- C₁₉H₃₀O₁₀**
 2-[4-(3-Hydroxypropyl)-2-methoxyphenoxy]-1,3-propanediol 1-*O*-glucoside, 10666
 Qingjueine II, 18290
- C₁₉H₃₀O₁₁**
 Secologanin dimethyl acetal, 19624
- C₁₉H₃₁NO₂**
 Samandarine, 19223
- C₁₉H₃₂**
 4-Phenyltridecane, 17128
 5-Phenyltridecane, 17137
- C₁₉H₃₂O₂**
 5β-Androstan-3α,17α-diol, 1163
 5β-Androstan-3α,17β-diol, 1164
 5α-Androstane-3β,17α-diol, 1167
 Annosquamosin C, 1327
 Grevillol, 8997
 Methylinolenate, 14555
- C₁₉H₃₂O₃**
 Annosquamosin B, 1326
 Isoobtusilactone A, 11567
 19-Nor-*ent*-kaurane-4α,16β,17-triol, 15766
 Obtusilactone A, 15903
- C₁₉H₃₂O₄**
 Annosquamosin G, 1331
 [8]-Gingediol, 8384
 Protolichesterinic acid, 17979
- C₁₉H₃₂O₇**
 Blumenol C glucoside, 2522
 Byzantionoside B, 2835
 Icariside B₆, 10946
 Icariside B₉, 10947
- C₁₉H₃₂O₈**
 Breyniaionoside D, 2610
 Corchoionoside A, 4033

- Excoecarioside A, 7693
 Glochidionioside B, 8566
 (3*S*,5*S*,6*R*,9*R*)-3-Hydroxy-5,6-epoxy- β -ionol-9-*O*- β -glucopyranoside, 10085
 Lasianthioside B, 12529
 Lasianthioside C, 12530
 Officinioside A, 16015
 Officinioside B, 16016
 Rehmaionoside C, 18595
 Sammangaoside A, 19228
 Staphylionoside E, 20268
 Staphylionoside F, 20269
 Staphylionoside H, 20271
 Turpinionoside E, 22129
- C₁₉H₃₂O₉**
 Breyniaionoside A, 2607
 Lasianthioside A, 12528
 Pisumionoside, 17495
 Staphylionoside C, 20266
- C₁₉H₃₃NO₂**
 3-*O*-Tetradecanoyl-1-cyano-2-methyl-1-propene, 21042
- C₁₉H₃₄O₂**
 Anticancer Fatty acid PMV70P691-75, 1396
 Methyl linoleate, 14554
 Methyl octadeca-8,11-dienoate, 14628
 Sterculic acid, 20328
- C₁₉H₃₄O₄**
 1-Acetoxy-2,4-dihydroxy-*N*-heptadeca-16-yne, 167
- C₁₉H₃₄O₇**
 Alatoside E, 842
 Linarionoside A, 12856
 Linarionoside B, 12857
 (3*R*,9*S*)-Megastigman-5-en-3,9-diol-3-*O*- β -*D*-glucopyranoside, 13643
 Myrsinioside A, 15210
 Platanionoside J, 17527
- C₁₉H₃₄O₈**
 Myrsinioside B, 15211
 Rehmaionoside A, 18593
 Rehmaionoside B, 18594
 Sammangaoside B, 19229
 Turpinionoside A, 22125
 Turpinionoside B, 22126
 Turpinionoside D, 22128
- C₁₉H₃₄O₉**
 Breyniaionoside B, 2608
 Breyniaionoside C, 2609
 (3*S*,5*R*,6*R*,7*E*,9*S*)-Megastigman-7-ene-3,5,6,9-tetrol-3-*O*- β -*D*-glucopyranoside, 13644
 (3*S*,5*R*,6*R*,7*E*,9*S*)-Megastigman-7-ene-3,5,6,9-tetrol-9-*O*- β -*D*-glucopyranoside, 13645
- Staphylionoside B, 20265
 Staphylionoside J, 20273
- C₁₉H₃₄O₁₁**
 Ebracteatoside D, 6666
- C₁₉H₃₄O₁₂**
 3-*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside of butyl (3*S*)-hydroxybutanoate, 1563
 3-*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside of butyl (3*R*)-hydroxybutanoate, 1567
- C₁₉H₃₆O₂**
 Methyl 9-octadecenoate, 14630
- C₁₉H₃₆O₄**
 1-Acetoxy-2,4-dihydroxy-*N*-heptadeca-16-ene, 166
 9,12-Dihydroxy-15-nonadecenoic acid, 6047
- C₁₉H₃₆O₅**
 2,3-Dihydroxy-2-(1-hydroxytridecyl)-4-methoxycyclopentanone, 5920
- C₁₉H₃₆O₇**
 Myrsinioside C, 15212
 Myrsinioside D, 15213
- C₁₉H₃₆O₈**
 Meliaionoside A, 13664
 Meliaionoside B, 13665
 Turpinionoside C, 22127
- C₁₉H₃₆O₁₀**
 Rhodiooctanoside, 18793
- C₁₉H₃₈O₂**
 Ethyl heptadecanoate, 7444
 Ethylisoheptadecanoate, 7452
 Methyl octadecanoate, 14629
 Nonadecanoic acid, 15672
- C₁₉H₃₈O₄**
L-(-)- α -Monopalmitin, 14931
- C₁₉H₄₀**
n-Nonadecane, 15671
- C₁₉H₄₀O**
 Nonacetyl alcohol-10, 15659
- C₂₀H₁₁N₃O₂**
 Arcyriaflavin A, 1624
- C₂₀H₁₁N₃O₃**
 Arcyriaflavin B, 1625
- C₂₀H₁₂**
 3,4-Benzopyrene, 2226
- C₂₀H₁₂N₂O₂**
 20-Formylbenzo[6,7]indolizino[1,2-*b*]quinolin-11 (13*H*)-one, 7896
- C₂₀H₁₂O₄**
 Palmarumycin CP₁, 16552
- C₂₀H₁₂O₆**
 Helioxanthin, 9323
- Justicidine E, 11981
 Taiwanin C, 20643
- C₂₀H₁₂O₇**
 Juscimranthin, 11972
 Justicidone, 11982
 Phelligridin C, 17061
 Taiwanin E, 20644
- C₂₀H₁₂O₈**
 Phelligridin D, 17062
- C₂₀H₁₃NO₅**
 11-Methoxylettowianthine, 13988
 Oxyanguinarine, 16473
- C₂₀H₁₃N₃O**
 Naulafine, 15316
 Staurosporinone, 20278
- C₂₀H₁₃N₃O₂**
 Bisindolylpyrrole CPB-53-594-6, 2476
- C₂₀H₁₃N₃O₈**
 Xanthommatin, 22769
- C₂₀H₁₄NO₄**
 Avicine, 2037
 Sanguinarine, 19284
- C₂₀H₁₄N₂O₂**
 Naucleficine, 15302
- C₂₀H₁₄N₂O₃**
 Nauclealine A, 15290
 Nauclequiniine, 15312
- C₂₀H₁₄N₄**
 Porphyrin, 17730
- C₂₀H₁₄O₄**
 4,5,4',5'-Tetrahydroxy-1:1'-binaphthyl, 21083
- C₂₀H₁₄O₅**
 Palmarumycin JC₁, 16553
 Palmarumycin JC₂, 16554
 Sophoracoumestan A, 20081
- C₂₀H₁₄O₆**
 Jayantinin, 11865
 Matsukaze lactone, 13607
 Pachycarin E, 16493
 Taiwanin A, 20641
- C₂₀H₁₄O₇**
 Daphnoretin methyl ether, 4658
 3'-Methoxypongapin, 14074
 Pachyrrhizone, 16500
- C₂₀H₁₄O₈**
 (-)-Diasamin-di- γ -lactone, 5376
 12 α -Hydroxypachyrrhizone, 10589
- C₂₀H₁₄O₉**
 Fuscoporine, 8033
- C₂₀H₁₅NO₄**
 Dihydrosanguinarine, 5708
 7,9-Dimethoxy-2,3-methylendioxybenzophenanthridine, 6261

- C₂₀H₁₅NO₅**
Oxyterihanine, 16477
- C₂₀H₁₅NO₆**
6,7-Methylenedioxy-2-(6-acetyl-2,3-methylene-dioxybenzyl)-1(2*H*)-isoquinolinone, 14360
Thalicminine, 21242
- C₂₀H₁₅N₃O**
Angustine, 1250
Evodiainine, 7667
- C₂₀H₁₅N₃O₂**
10-Hydroxyangustine, 9788
Nauclefine, 15313
- C₂₀H₁₆NO₄⁺**
Isofagaridine, 11423
Worenine, 22732
- C₂₀H₁₆N₂O₃**
Deoxycamptothecin, 5157
- C₂₀H₁₆N₂O₄**
Camptothecin, 3053
- C₂₀H₁₆N₂O₅**
10-Hydroxycamptothecin, 9882
18-Hydroxycamptothecin, 9883
- C₂₀H₁₆O₂**
(*E*)-2-(4-Methylpenta-1,3-dienyl)anthraquinone, 14661
- C₂₀H₁₆O₃**
Sterequinone D, 20338
- C₂₀H₁₆O₄**
Bidwillon C, 2365
Corylin, 4109
- C₂₀H₁₆O₅**
Alpinumisoflavone, 993
Atalantoflavone, 1956
Carpachromene, 3217
Derrone, 5235
Erylatissin B, 7306
Glabrocoumarin, 8496
Glabrone, 8501
Isopsoralidin, 11632
Kanzonol W, 12153
Licoagroisoflavone, 12756
Phaseol, 17046
Psoralidin, 18088
Psorothamnone A, 18092
Sojagol, 20041
Vogelin J, 22605
Yinyanghuo C, 22910
- C₂₀H₁₆O₆**
Bavacoumestan A, 2176
Bavacoumestan B, 2177
Detetrahydroconidendrin, 5279
Elliptone, 6762
Erosone, 7290
- (-)-(*R,E*)-Hibalactone, 9534
I-23, 10928
- Licoisoflavone B, 12779
Negundin A, 15322
Pachycarin A, 16489
Pachycarin B, 16490
Picropolygamain, 17343
Psoralidin-2',3'-oxide, 18089
Savinin, 19427
Semilicoisoflavone B, 19695
3,3',5'-Trimethoxy furo[8,7:4",5"]flavone, 21916
Yinyanghuo E, 22912
- C₂₀H₁₆O₇**
(-)-Aptosimon, 1537
Corylidin, 4107
Genkdaphin, 8286
6*αα*,12*αα*-12*α*-Hydroxyelliptone, 10067
(+)-Malaccol, 13415
- C₂₀H₁₆O₁₂**
Ducheside A, 6619
Ducheside B, 6620
4-(*α*-Rhamnopyranosyl)ellagic acid, 18697
- C₂₀H₁₆O₁₅**
Mucic acid 1,4-lactone 3,5-di-*O*-gallate, 15010
- C₂₀H₁₇ClO₄**
Anthrasedamone C, 1370
- C₂₀H₁₇ClO₇**
5-Chloropropacin, 3570
- C₂₀H₁₇NO₅**
Bianfugenine, 2345
Oxoglaucine, 16339
Oxyberberine, 16441
Vitedoamine A, 22565
- C₂₀H₁₇NO₆**
Adlumidine, 642
Bicuculline, 2350
Hypecorinine, 10879
Leptopidinine, 12675
Pareirubrine A, 16661
1,2,3,10-Tetramethoxy-9-hydroxy-4,5,6,6*α*-dehydro-7-aporhthione, 21187
- C₂₀H₁₇NO₇**
Procumbine, 17873
- C₂₀H₁₇N₃O**
3,14-Dihydroangustine, 5540
18,19-Dihydroangustine, 5541
- C₂₀H₁₇N₃O₂**
Angustoline, 1252
- C₂₀H₁₈NO₄**
Berberine, 2303
Epiberberine, 6835
- C₂₀H₁₈NO₅⁺**
Berberastine, 2302
- C₂₀H₁₈NO₆⁺**
Leptopine, 12676
- C₂₀H₁₈N₂O₂**
Kopsorinine, 12269
- C₂₀H₁₈N₂O₄**
Corydamine, 4105
- C₂₀H₁₈N₂O₇**
Canthin-6-one 9-*O*- β -glucopyranoside, 3097
- C₂₀H₁₈O₂**
1,4-Bis-benzyloxy-benzene, 2436
2-(4-Methylpent-3-enyl)anthraquinone, 14663
- C₂₀H₁₈O₃**
Anthrasedamone A, 1368
- C₂₀H₁₈O₄**
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- C₂₀H₂₃NO₇**
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- C₂₀H₂₃NO₉**
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- C₂₀H₂₃N₃O**
 3,3'-Bis(indolylmethyl)dimethyl ammonium hydroxide, 2472
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- C₂₀H₂₄NO₄**
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- C₂₀H₂₄NO₄⁺**
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- C₂₀H₂₄N₂O**
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 5*R*-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-3-heptanone, 10188
 5*ζ*-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-3-heptanone, 10189
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- C₂₀H₂₄O₆**
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- C₂₀H₂₄O₁₁**
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- C₂₀H₂₄O₁₂**
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- C₂₀H₂₅ClO₆**
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- C₂₀H₂₅ClO₇**
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- C₂₀H₂₅NO₇**
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- C₂₀H₂₆O₁₃**
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- C₂₀H₂₇NO**
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- C₂₀H₂₇NO₂**
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 (*S*)-12-Hydroxygeranylgeranic acid, 10144
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- C₂₀H₃₄O₄**
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- C₂₀H₃₄O₁₂**
 1 α -*O*-[2'-(2'-Methyl-5'-isopropyl,3'-en-bihydrofuryl)]- β -*D*-lactose, 14537
- C₂₀H₃₅ClO₃**
 Agallochin C, 686
- C₂₀H₃₅N₃**
 Ormosanine, 16206
- C₂₀H₃₆N₂O₁₇**
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- C₂₀H₃₆O₁₀**
O- β -*D*-Oleandropyranosyl-(1 \rightarrow 4)-*O*- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranose, 16033
- C₂₀H₃₆O₁₁**
 (*R*)-Oct-1-en-3-yl *O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 15985
- C₂₀H₃₆O₁₂**
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- C₂₀H₃₈**
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- C₂₀H₃₉NO₂**
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- C₂₀H₄₀N₂O₈**
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- C₂₀H₄₂O**
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- C₂₀H₅₀O₅**
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- 21756
C₂₁H₇NO₃
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C₂₁H₁₄O₄
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C₂₁H₁₄O₆
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C₂₁H₁₄O₈
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C₂₁H₁₆NO₅⁺
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C₂₁H₁₆O₆
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C₂₁H₁₆O₉
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C₂₁H₁₆O₁₀
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C₂₁H₁₆O₁₈S₂²⁻
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C₂₁H₁₇NO₅
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C₂₁H₁₈CINO₄
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C₂₁H₁₈NO₄⁺
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C₂₁H₁₈N₂O₄
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C₂₁H₁₈N₂O₅
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C₂₁H₁₈O₇
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C₂₁H₁₈O₈
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C₂₁H₁₈O₁₁
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 5,7,2',5'-Tetrahydroxyflavone
 7-*O*- β -*D*-glucuronopyranoside, 21115
 5,6,4'-Trihydroxyflavone-7-*O*- β -*D*-galactonic acid, 21735
C₂₁H₁₈O₁₃
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C₂₁H₁₉NO₄
 Buxifoliadine G, 2829
 Dihydrochelerythrine, 5558
C₂₁H₁₉NO₅
 Corynoloxine, 4117
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C₂₁H₁₉NO₆
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 6-Oxocorynoline, 16303
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C₂₁H₁₉NO₇
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C₂₁H₁₉N₃O₂
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 19-*O*-Methylangustoline, 14139
C₂₁H₁₉N₃O₄
 16-Methoxycarbonyl-18,19-dihydroxynaufoline, 13874
C₂₁H₁₉O₁₅S⁻
 Centabracein, 3387
C₂₁H₂₀NO₄
 Fagaronine, 7704
C₂₁H₂₀NO₁₃
 Isoaffnetin, 11198
C₂₁H₂₀N₂O₃
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C₂₁H₂₀O₄
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 3-Hydroxy-9-methoxy-10-(3,3-dimethylallyl) pterocarpene, 10398
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C₂₁H₂₀O₅
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- (7,8:6",5")flavanone, 10400
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 Anticancer Glycerol Ester PMV70P691-117, 1422
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- C₂₁H₂₀O₉**
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 Isoscutellarein 7-*O*- β -*D*-glucopyranoside, 11705
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 6-Hydroxyluteolin-7-*O*-glucoside, 10355
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- C₂₁H₂₀O₁₃S**
 Sulfemodin-8-*O*- β -*D*-glucoside, 20468
- C₂₁H₂₁NO₄**
 Isochotensine, 11571
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- C₂₁H₂₁NO₅**
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- C₂₁H₂₁NO₆**
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- C₂₁H₂₁O₁₀⁺**
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- C₂₁H₂₁O₁₁⁺**
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- C₂₁H₂₁O₁₂⁺**
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- C₂₁H₂₂O₇**
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- C₂₁H₂₃NO₃**
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- C₂₁H₂₃NO₄**
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- C₂₁H₂₄O₁₀**
 1-Keto-3,10-epoxy-8 β -*O*-methacryloyl-4,15-dihydroxy-5-acetoxy-2,11-germacradiene,6 α ,12-olide, 12198
 Licoagroside F, 12762
 Monnieraside III, 14919
 Phloridzin, 17170
 Pterosupin, 18164
 Rocymosin B, 18895
 Trilobatin, 21878
 Triptephenoside, 21989
- C₂₁H₂₄O₁₁**
 (+)-Catechin-5-*O*-glucoside, 3315
 Curculigoside B, 4386
 Epicatechin-8-*C*- β -*D*-galactopyranoside, 6863
- 3-Hydroxyphlorizin, 10645
 Vanilloyl calleryanin, 22340
- C₂₁H₂₄O₁₂**
 2-Methoxy-5-hydroxymethyl-phenyl-1-*O*-(6''-galloyl)- β -*D*-glucopyranoside, 13965
 Rocymosin A, 18894
- C₂₁H₂₄O₁₃**
 3,5-Dimethoxy-4-hydroxyphenol 1-*O*- β -*D*-(6''-*O*-galloyl)glucopyranoside, 6251
 Palustroside, 16577
- C₂₁H₂₅NO₃**
 Carduchorone, 3191
 Dehydrodeacetylheterophylloidine, 4897
 Dehydropiperonaline, 4961
- C₂₁H₂₅NO₄**
 (-)-Argemonine, 1667
 (+)-Corybulbine, 4098
 Glaucine, 8513
 Lienkonine, 12797
 Tetrahydropalmatine, 21077
 Thalicthuberine, 21247
 Xylopinine, 22820
 Yuanhunine, 22934
- C₂₁H₂₅NO₅**
 Acutifolidine, 596
 Capauridine, 3114
 Colchamine, 3909
N-trans-4-*O*-Methylferuloyl 3',4'-*O*-dimethyldopamine, 14444
- C₂₁H₂₅NO₆**
 16-Oxohasubanonine, 16341
- C₂₁H₂₅NO₇**
 Oxoepesthamiersine, 16328
 Oxostephamiersine, 16424
- C₂₁H₂₅NO₁₀**
 Nigrumin-5-ferulate, 15594
- C₂₁H₂₅N₂O₃**
*N*4-Methyl angustilobine B, 14138
- C₂₁H₂₅N₇O₇**
 Folinic acid, 7853
- C₂₁H₂₆NO₄**
 (*S*)-*trans*-*N*-Methyltetrahydrocolumbamine, 14748
- C₂₁H₂₆NO₄⁺**
 Menisperpine, 13716
 Xanthoplanine, 22771
- C₂₁H₂₆N₂O₂**
 Aspidospermatine, 1903
 Chrysotricine, 3629
 Coronaridine, 4080
 Dihydrovindolinine, 5737
 16-Epikopsinine, 6941
 Isochrysotricine, 11330

- Kopsinine, 12268
 10-Methoxyaffinisine, 13837
 12-Methoxyaffinisine, 13838
 17-*O*-Methylakagerine, 14123
- C₂₁H₂₆N₂O₃**
 Alloyohimbine, 942
 Corynanthine, 4115
 Humantenine, 9659
 15 α -Hydroxykopsinine, 10293
 Isositsirikine, 11718
 Protostrychnine, 17994
 Pseudoyohimbine, 18074
 Rhazimanine, 18752
 Sitsirikine, 20000
 Tabernaemontanine, 20575
 Vincamine, 22489
 Yohimbine, 22921
- C₂₁H₂₆N₂O₄**
 Amsosinine, 1089
 Aspidodasycarpine, 1901
 Humantenirine, 9660
 19-(*R*)-Hydroxydihydrogelsevirine, 10001
 19-(*S*)-Hydroxydihydrogelsevirine, 10002
 11-Hydroxyhumantenine, 10168
 15-Hydroxyhumantenine, 10169
 Isorhynchophyllic acid, 11678
 Isorhynchophylline, 11679
 Lonicerine, 12988
 11-Methoxygelsemamide, 13938
 Rhynchophyllic acid, 18825
- C₂₁H₂₆O₂**
 Cannabinol, 3082
- C₂₁H₂₆O₃**
 5-(1-Ethoxy-ethyl)-2-hydroxy-7-methoxy-1,8-dimethyl-9,10-dihydrophenanthrene, 7403
 (3*S*,5*R*)-3-Hydroxy-5-ethoxy-1-(4-hydroxyphenyl)-7-phenyl-6*E*-heptene, 10099
 (3*S*,5*S*)-3-Hydroxy-5-ethoxy-1-(4-hydroxyphenyl)-7-phenyl-6*E*-heptene, 10100
 1-(4-Hydroxy-2-methoxyphenyl)-3-(4-hydroxy-3-prenylphenyl)propane, 10445
 11 α -Hydroxy 18,20-oxido-3-oxo-pregna-1,4,17(20)-triene, 10557
 Hypolide methyl ether, 10900
 5-Methoxy-7-(4"-hydroxyphenyl)-1-phenyl-3-heptanone, 13967
 Neridienone A, 15493
 Octabenzone, 15932
 S-I, 19853
- C₂₁H₂₆O₄**
 Crocetin monomethyl ester, 4248
 Dehydroagastol, 4875
 Isonotriptophenolide, 11561
- 5-methoxy-7-(4"-hydroxy-3"-methoxyphenyl)-1-phenyl-3-heptanone, 13962
 Neotriptophenolide, 15468
 Preracemosol A, 17846
 Sependione, 19761
 Terresterone A, 21002
- C₂₁H₂₆O₅**
 Diarylheptanoid CPB-51-262-4, 5375
 Futokadsurin A, 8037
 Kadsurenin C, 12006
 4-Methoxymachilin D, 13992
 12-(α -Methyl butyryl)-14-acetyl-2*E*,8*E*,10*E*-attractylentriol, 14189
 12-(α -Methyl butyryl)-14-acetyl-2*E*,8*Z*,10*E*-attractylentriol, 14190
 (+)-*S*-Myricanol, 15159
 Myricanol, 15160
 (-)-Nectandrin A, 15318
 PC-66-633-3, 16744
 Rosmaquinone A, 18922
 Rosmaquinone B, 18923
 Shikonofuran B, 19822
 Shikonofuran C, 19823
 Tashironin, 20716
 Terresterone B, 21003
- C₂₁H₂₆O₆**
 Biondinin A, 2387
 Candosalvoquinone, 3069
- Cascarinin B**, 3252
 Daphneligin, 4641
 (2*S*,3*S*,1'*S*,2'*R*)-and(2*S*,3*S*,1'*R*,2'*R*)-2,3-Dihydro-5-(1',2'-dihydroxypropyl)-2-(3,4-dimethoxyphenyl)-7-methoxy-3-methylbenzofuran, 5596
 (*E*)-3-(3,4-Dimethoxyphenyl)-2-propen-1-yl (Z)-2-[(Z)-2-methyl-2-butenoyloxymethyl]butenoate, 6288
 5-*O*-Ethyl-hirsutanonol, 7445
 Hexahydrocurcumin, 9498
erythro-1-(4-Hydroxy-3-methoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy) propan-1-ol, 10434
 Phantomolin, 17042
 Scaphopetalone, 19456
 Theraphin A, 21313
- C₂₁H₂₆O₇**
 Acetylerioflorin, 390
 3 β -Angeloyloxy-8 β -methoxyeremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide, 1230
 Aspidinin, 1896
 Eurycolactone A, 7639
 5-Hydroxy-1-(3,4-dihydroxy-5-methoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)heptan-3-one, 10011
- 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxy-5-methoxyphenyl)heptan-3-one, 10183
 5-Methoxy-*trans*-dihydrodehydrodiconiferyl alcohol, 13907
 (-)-8-Methoxysolariciresinol, 13975
 (-)-5'-Methoxysolariciresinol, 13976
 5'-Methoxylariciresinol, 13986
 Norcaesalpinin F, 15722
 Nudaphantin, 15857
 Pseudolaric acid C, 18035
- C₂₁H₂₆O₈**
 Calealactone C, 2958
 Calein D, 2964
 15-Hydroxy-9 α -acetoxy-8 β -isobutyryloxy-14-oxo-melampolide, 9755
 Icarinol A₁, 10940
 Torosaflavone A, 21461
- C₂₁H₂₆O₈S**
 Shogasulfonic acid A, 19848
- C₂₁H₂₆O₉**
 Calealactone B, 2957
- C₂₁H₂₆O₁₀**
 Bruceolide, 2674
- C₂₁H₂₆O₁₀S**
 Shogasulfonic acid D, 19851
- C₂₁H₂₆O₁₂**
 Plumieride, 17571
- C₂₁H₂₆O₁₃**
 Scopoletin β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 19544
- C₂₁H₂₇NO₂**
 Holonamine, 9591
 Variegatine, 22348
- C₂₁H₂₇NO₃**
 Delcarduchol, 5002
 3,18-Dioxo-11 α -hydroxycona-1,4-diene, 6469
 1-[1-Oxo-9(3,4-methylenedioxyphenyl)-2*E*,8*E*-nonadienyl] piperidine, 16384
- C₂₁H₂₇NO₄**
 Laudanosine, 12563
 Protostephanine, 17993
- C₂₁H₂₇NO₅**
 Hasubanone, 9245
 Runanine, 19067
- C₂₁H₂₇NO₆**
 Stephamiersine, 20318
- C₂₁H₂₇NO₇**
 Clivorine, 3847
 Trachelogenin amide, 21491
- C₂₁H₂₇N₂O₂**
 Fluorocurine, 7841
- C₂₁H₂₇N₃O₃**

- Celafurine, 3358
- C₂₁H₂₇N₃O₆**
Casimiroedine, 3275
- C₂₁H₂₇N₇O₁₄P₂**
Coenzyme I, 3893
- C₂₁H₂₇N₇O₁₇P₃**
Coenzyme II, 3894
- C₂₁H₂₈N₂O₂**
Macrocarpine A, 13316
- C₂₁H₂₈N₂O₃**
Alstohentine, 994
Dihydrositsirikine, 5716
- C₂₁H₂₈N₂O₆**
11-Methoxy-19-(*R*)-hydroxygelselegine, 13961
- C₂₁H₂₈O₃**
Pyrethrin I, 18255
Salvibracteone, 19208
Triptinin A, 21993
- C₂₁H₂₈O₄**
3 β -Acetoxy-12-methoxy-13-methyl-podocarpane-8,11,13-trien-7-one., 254
Adonilide, 644
Anhydrohirundigenin, 1271
Bractealine, 2584
r-Cajucarin B, 2932
11-Dehydrocorticosterone, 4887
Erectquione A, 7223
Geranyloxy sinapyl aldehyde, 8328
Ialibinone A, 10929
Ialibinone B, 10930
Methyl 15,16-epoxy-12-oxo-8(17),13(16),14-*ent*-labdatrien-19-oate, 14408
Neotussilagolactone, 15470
Stizophyllin, 20386
Taiwaniaquinol A, 20629
Taiwaniaquinol D, 20632
Taiwaniaquinone F, 20638
Triptobenzene H, 21995
Triptonoditerpenic acid, 22014
- C₂₁H₂₈O₅**
Aldosterone, 880
Cascarinin C, 3253
CinerinII, 3692
Limbatolide A, 12834
Ludongnin J, 13071
7-Methoxyrosmanol, 14085
1-Methylene-2,4a-dimethyl-6,8-dihydroxy-5-methoxy-7-(1,1-dimethyl hydroxymethyl)-1,2,3,4,9,10,10a-heptahydro-9-phenanthrone, 14359
9 β -(3-Methyl-pentoyl-3-ene)-parthenolide, 14667
Taiwaniaquinone E, 20637
Tricyclodehydroisohumulone, 21599
- C₂₁H₂₈O₆**
3 β -Angeloyloxy-10 β -hydroxy-6 β -methoxy-eremophila-7(11),8(9)-dien-8,12-olide, 1227
Angustifolin, 1245
Candesalvone B methyl ester, 3068
6-Epiangustifolin, 6826
Epi-maoecrystal P, 6958
Eupaglehnin D, 7563
Macrocalyxin B, 13306
Maoecrystal Q, 13538
12-*O*-Methylcandesalvone B, 14210
Nervosin, 15510
Nigakilactone I, 15554
Octahydrocurcumin, 15965
Rabdosin A, 18496
Sauriol B, 19416
- C₂₁H₂₈O₆S**
Bakkenolide D, 2120
S-Fukinolide, 7988
- C₂₁H₂₈O₇**
3 β -Acetoxy-8 β -isobutyryloxyreynosin, 240
3 β -Angeloyloxy-8,12-epoxy-12 α -hydroxy-8 β -methoxyeremophil-7(11)-en-14 β ,6 α -olide, 1219
Hancogenin B, 9212
8-*O*-Isobutyryl-9 α -acetoxycumambrin B, 11292
3'-Methoxysecoisolariciresinol, 14089
Picrasin G, 17317
Stauntonine, 20275
Viguiestin, 22475
- C₂₁H₂₈O₈**
1-(4'-Hydroxy-3'-methoxyphenyl)-2-[4''-(3-hydroxypropyl)-2'',6''-dimethoxyphenoxy]propane-1,3-diol, 10446
8 α -Isobutyryloxyanthemolide A, 11298
8 α -Isobutyryloxyanthemolide C, 11299
Ixiseriside, 11797
Picrodendrin Q, 17336
Vernoflexuocide, 22408
- C₂₁H₂₈O₉**
Anthemolide F, 1357
Deacetylmatricarin 8-*O*- β -glucopyranoside, 4750
2 α -Hydroperoxy-8-*O*-isobutyryl-9 α -acetoxycumambrin B, 9730
11 β -Hydroxyleukodin 11-*O*- β -glucopyranoside, 10319
8-*O*-Isobutyryl-9-*O*-acetylanthemolide B, 11293
Picrodendrin M, 17334
Taraxinic acid-1'-*O*- β -*D*-glucopyranoside, 20714
- C₂₁H₂₈O₁₀**
Picrodendrin A, 17332
Taraxafolide, 20694
- C₂₁H₂₈O₁₂**
- Cistanoside I, 3759
Sibirioside A, 19867
- C₂₁H₂₈O₁₃**
Cistanoside F, 3756
(6-*O*-(*E*)-*p*-Coumaroyl)- β -*D*-fructofuranosyl-(2 \rightarrow 1)- α -*D*-glucopyranoside, 4159
Swertiamacroside, 20508
- C₂₁H₂₈O₁₄**
1-*O*-(*E*)-Caffeoyl- β -gentiobiose, 2905
1-*O*-(3'-*O*- β -*D*-Glucopyranosyl)-(*E*)-caffeoyl- β -*D*-glucopyranose, 8612
- C₂₁H₂₉BrN₂**
Flustramine A, 7843
Flustramine B, 7844
- C₂₁H₂₉ClO₇**
(2*S*)-Pteroside K, 18122
- C₂₁H₂₉NO**
1-Methyl-2-[(*Z*)-5-undecenyl]-4(1*H*)-quinolone, 14799
1-Methyl-2-[(*Z*)-6-undecenyl]-4(1*H*)-quinolone, 14800
- C₂₁H₂₉NO₂**
Regholarrenine B, 18586
- C₂₁H₂₉NO₃**
Piperolein B, 17469
Spiradine G, 20180
- C₂₁H₂₉NO₄**
Incarvine C, 11011
- C₂₁H₂₉N₂O₂**
9-Methoxy-*N*₆-methylgeissoschizol, 14024
- C₂₁H₂₉O₆**
Eupaglehnin A, 7560
- C₂₁H₃₀O**
6-Dehydrohinokiol, 4929
- C₂₁H₃₀O₂**
Cannabichromene, 3077
Cannabidiol, 3079
Dehydroabietic acid methyl ester, 4874
12-Methoxy-6,8,11,13-abietatraen-11-ol, 13825
4-Nerolidylcatechol, 15505
Progesterone, 17901
 Δ^8 -Tetrahydrocannabinol, 21058
 Δ^9 -Tetrahydrocannabinol, 21059
- C₂₁H₃₀O₃**
Cryptojaponol, 4281
Deoxycorticosterone, 5163
3 β -Hydroxy-1-oxo-13-*O*-methyltarol, 10575
8,11,13-Icetexantrien-10,11,12-triol, 10957
Methyl dehydro-15-hydroxy-abietan-18-oate, 14285
Methyl lambertianate, 14548
(+)-Methyl vouacapenate, 14814
Przewalskin C, 18009

- Sugikurojin F, 20462
 Tupipregnenolone, 22117
 Turricolol E, 22142
- C₂₁H₃₀O₄**
 Bornyl-2-methoxy-4-hydroxycinnamate, 2562
 Corticosterone, 4096
 10-Dehydrogingerdione, 4922
 Geranyloxy sinapyl alcohol, 8327
 Glaucopine A, 8521
 Glaucopine B, 8522
 3 β -Hydroxy-*cis*-dehydrocrotonin, 9971
 17-Hydroxy-11-deoxy-corticosterone, 9986
 Otogirin, 16268
 PC-66-633-5, 16741
 Pinusolide, 17422
 Triptonoterpenol, 22017
- C₂₁H₃₀O₅**
 Adhumulone, 628
 Coetsoidin C, 3901
 4-*O*-[(2*E*,5*E*)-3,7-Dimethyl-2,5-octadiene-7-*ol*]-
 sinapyl alcohol, 6381
 Enaimeone B, 6781
 Humulone, 9678
 17-Hydroxycorticosterone, 9937
 1'-Hydroxyalibinone A, 10220
 1'-Hydroxyalibinone B, 10221
 Isohumulone A, 11459
 Isohumulone B, 11460
 Kamebacetal A, 12121
 Kamebacetal B, 12122
 Limbatolide B, 12835
 Ludongnin F, 13067
 Ludongnin G, 13068
 Ludongnin H, 13069
 Ludongnin I, 13070
 (+)-15-Methoxyfloridolide A, 13929
 (10*R*)-15-Methoxypinusolidic acid, 14069
 (10*S*)-15-Methoxypinusolidic acid, 14070
 Nelumol B, 15326
 PC-66-633-1, 16742
 Poststerone, 17741
 4-Pregnene-17 α ,20 β ,21-triol-3,11-dione, 17804
 Taiwaniaquinol C, 20631
 1,3,5-Trihydroxy-6-[2''',3'''-epoxy-3'''-methyl-
 butyl]-2-[2''-methyl-butanoyl]-4-[3'-methyl-2'-
 butenyl]-benzene, 21727
- C₂₁H₃₀O₆**
 6 β -Angeloyloxy-10 β -hydroxy-8 α -methoxyere-
 mophil-7(11)-en-12,8 β -olide, 1228
 6 β -Angeloyloxy-10 β -hydroxy-8 β -methoxyere-
 mophil-7(11)-en-12,8 α -olide, 1229
 Coetsoidin D, 3902
 Humulinone, 9677
- Irroratin A, 11185
 Nigakilactone A, 15547
 PC-66-633-2, 16743
 PC-66-633-4, 16745
 Rabdonervosin B, 18481
 Rubescensin W, 18978
 Syringenin diisovalerate, 20559
- C₂₁H₃₀O₇**
 3 β -Angeloyloxy-8 β ,10 β -dihydroxy-6 β -
 methoxyeremophilanolide, 1217
 Isodotricin, 11402
 Nigakihemiacetal E, 15544
 Nigakilactone M, 15558
 Nigakilactone N, 15559
 Pteroside Z, 18131
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 Rubescensin H, 18977
 Taibaijaponicain A, 20620
- C₂₁H₃₀O₈**
 Cuminoside A, 4358
 Eurycolactone, 7638
 Methyl 8 α -(3,4-dihydroxy-2-methylene-
 butanoyloxy)-6 α ,15-dihydroxyelema-
 1,3,11(13)-trien-12-oate, 14312
 Onitin-2'-*O*- β -*D*-alloside, 16099
 Onitin-2'-*O*- β -*D*-glucoside, 16100
 Onitinoside, 16101
 Pteroside A, 18116
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 Tithofolinolide, 21410
 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α -epoxy-1-oxo-
 germacr-10(14)-ene, 21519
- C₂₁H₃₀O₉**
 11 β ,13-Dihydro-taraxinic acid-1'-*O*- β -*D*-
 glucopyranoside, 5724
 10 β ,14-Dihydroxy-10(14),11 β (13)-tetrahydro-
 8,9-didehydro-3-deoxyzaluzanin C
 10-*O*- β -*D*-glucopyranoside, 6143
 (3*S*)-3-Hydroxyatractylenolide III
 3-*O*- β -*D*-glucopyranoside, 9806
 9 α -Hydroxy-11 β ,13-dihydrozaluzanin C
 3-*O*- β -allopyranoside, 10012
 Napiferoside, 15262
 Prenantheside A, 17822
 Pteroside W, 18129
 Pteroside X, 18130
 2*R*,3*R*-Pterosin L-2'-*O*- β -*D*-glucoside, 18140
 2*S*,3*R*-Pterosin L-2'-*O*- β -*D*-glucoside, 18141
- C₂₁H₃₀O₁₀**
 15-*O*- β -*D*-Glucopyranosyl-11 β ,13-dihydro-
 urospermal A, 8615
- (1'*S*,6'*R*)-8'-Hydroxyabscisic acid β -*D*-glucoside,
 9748
- C₂₁H₃₀O₁₁**
 (2*E*)-2-Decene-4,6-diyne-1,8-diol 8-*O*- β -*D*-apio-
 furanosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 4842
 3,4-Dihydroxyallylbenzene
 4-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-gluco-
 pyranoside, 5754
 Gein, 8250
 Gymnasterkoreaside B, 9105
 Pectinolide F, 16752
 4-Propenyl-2-methoxyphenyl
 6-*O*- β -*D*-apiofuranosyl
 (1 \rightarrow 6)- β -*D*-glucopyranoside, 17922
 Rhododendroketoside, 18795
- C₂₁H₃₀O₁₂**
 4-[β -*D*-Apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyra-
 nosyloxy]-3-methoxypropiophenone, 1513
 Coelovirin A, 3892
 Coniferyl 9-*O*-[β -*D*-apiofuranosyl(1 \rightarrow 6)]-*O*- β -*D*-
 glucopyranoside, 3984
- C₂₁H₃₀O₁₃**
 Acetylbarlerin, 330
 6'-*O*- β -Apiofuranosylsweroside, 1517
 Ebractelatinoside C, 6668
 Erythroxyloside B, 7346
 Evernic acid methyl ester 2-*O*- β -xylopyra-
 nosyl-(1 \rightarrow 6)- β -glucopyranoside, 7662
 Tectoroside, 20904
- C₂₁H₃₀O₁₄**
 6'-*O*-Acetyldideroside, 376
 6'-*O*- α -*L*-Arabinopyranosylswertiamarin, 1593
 Chironoside, 3539
 Syringic acid methyl ester-4-*O*- β -*D*-apiofura-
 nosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 20567
- C₂₁H₃₁NO**
 1-Methyl-2-undecyl-4(1*H*)-quinolilone, 14801
- C₂₁H₃₁NO₄**
N-Deethyl-*N*-19-didehydrosachaconitine, 4867
 Liconosine A, 12781
- C₂₁H₃₂N₂**
 Conkurchine, 3991
- C₂₁H₃₂O₂**
 Cannabigerol, 3081
trans-Communic acid methyl ester, 3945
 1,4-Epoxy-16-hydroxyheneicos-1,3,12,14,18-
 pentaene, 7117
 Labda-7,12(*E*),14-triene-17-oic acid methyl ester,
 12416
 1-(3,4-Methylenedioxyphenyl)-1*E*-tetradecene,
 14382
 (-)-Methyl kaur-16-en-19-oate, 14543
 12-*O*-Methylpisiferanol, 14679

- Pregnenolone, 17805
 Urushiol III, 22274
- C₂₁H₃₂O₃**
 3 β -Acetoxy-17 β -hydroxy-androst-5-ene, 205
 Agallochin O, 695
 4(18),13-Clerodadien-3-oxo-15-oic acid methyl ester, 3835
 Coronarin D methyl ether, 4085
 10-Deoxy-4,18-epoxy-12-methoxy-4,5-seco-pisiferan-19-ol, 5170
 15 α ,20 β -Dihydroxy- Δ^4 -pregnen-3-one, 6101
 1 β -Hydroxypisiferanol, 10657
 12-Methoxy-8,11,13-abietatriene-7 β ,11-diol, 13826
 Preclavulone A methyl ester, 17773
 Preclavulone A methyl ester 12-isomer, 17775
 Salvicanol, 19209
trans-10-Shogaol, 19847
- C₂₁H₃₂O₄**
 Ceriopsin A, 3423
 Ceriopsin F, 3427
 CPB5212-1492-2, 4205
 17 α ,20 R -Dihydroxypregnan-3,16-dione, 6100
 Fukujusone, 7992
 [10]-Gingerdione, 8388
 Isoramanone, 11643
 Methyl 16 α ,17-dihydroxy-*ent*-9(11)-kauren-19-oate, 14305
 Methyl 7 α ,12 β -dihydroxysandaracopimarate, 14317
 Methyl 12-oxo-8 α -hydroxyabiet-13-en-19-oate, 14647
 Ramanone, 18528
- C₂₁H₃₂O₅**
 Agallochin N, 694
 1-[2',4'-Dihydroxy-3'-(3"-methylbut-2"-enyl)-5'-(1"-ethoxy-3"-methylbutyl)-6'-methoxy]-phenylethanone, 6022
 16 α ,17-Dihydroxy-15-oxo-*ent*-kaur-19-oic acid methyl ester, 6067
 Isoloneolone, 11497
 Lineolone, 12880
 Methyl 15-hydroxy-8 α ,12 α -epidioxiabiet-13-en-19-oate, 14504
 Methyl 12-oxo-8 α ,15-dihydroxyabiet-13-en-19-oate, 14644
 Nepetalic anhydride, 15488
 Pergularin, 16917
- C₂₁H₃₂O₆**
 Ajugalide D, 798
 Anhydrocinnzeylanol, 1264
 Deacylmetaplexigenin, 4796
 [6]-Gingediacetate, 8382
- 15 β -Hydroxyisolineolone, 10248
 15 β -Hydroxylineolone, 10327
 6 β -(2'-Methylbutanoyloxy)-10 β -hydroxy-8 α -methoxyeremophil-7(11)-en-12,8 β -olide, 14170
 6 β -(2'-Methylbutanoyloxy)-10 β -hydroxy-8 β -methoxyeremophil-7(11)-en-12,8 α -olide, 14171
 Methyl 15-hydroperoxy-8 α ,14 α ,12 α ,13 α -diepoxiabietan-13-en-19-oate, 14495
 Methyl 15-hydroperoxy-8 α ,12 α -epidioxiabiet-13-en-19-oate, 14496
 Nardostachin, 15276
 Nervosinin A, 15508
 Nigakihemiacetal C, 15543
 Sibiricinone C, 19860
 10 α ,16 α ,17-Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid methyl ester, 21807
 Xindongnin K, 22807
- C₂₁H₃₂O₇**
 Furoneguinone B, 8029
 Lushanrubescensin F, 13121
 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α -epoxygermacr-1(10)*E*-ene, 21518
- C₂₁H₃₂O₈**
 Alatoside C, 840
 Alatoside D, 841
 Mukaadial 6-*O*- α -L-rhamnopyranoside, 15025
 Sonchuside A, 20073
 3 β ,6 β ,8 α -Triacetoxo-4 β ,5 α :1 α ,10 β -diepoxogermacrane, 21514
- C₂₁H₃₂O₉**
 Cuminoside B, 4359
 Mukaadial 6-*O*- β -D-glucopyranoside, 15024
- C₂₁H₃₂O₁₀**
 Dendromonilide C, 5118
 Dihydrophaseic acid 4'-*O*- β -D-glucopyranoside, 5691
- C₂₁H₃₂O₁₁**
 Adinoside B, 637
 Adinoside C, 638
 Apiosylepirhododendrin, 1522
 Dendromonilide B, 5117
 Lonicercetalide A, 12985
 Lonicercetalide B, 12986
- C₂₁H₃₂O₁₂**
 Cistanoside E, 3755
 4'-Deoxykanokoside A, 5185
- C₂₁H₃₂O₁₃**
 Diospyrososide, 6463
 2-(3-Hydroxy-4-methoxyphenyl)-ethyl-*O*- β -D-glucopyranosyl (1 \rightarrow 3)- β -D-glucopyranoside, 10442
- 1-[α -L-Rhamnosyl-(1 \rightarrow 6)- β -D-glucopyranosyl]-3,4,5-trimethoxybenzene, 18740
 Sinuatol, 19960
- C₂₁H₃₂O₁₄**
 6-*O*- β -D-Apiofuranosyl-mussaenosidic acid, 1516
 6-*O*- α -L-Rhamnopyranosylcatalpol, 18694
 Ulmoside, 22193
- C₂₁H₃₂O₁₅**
 3'-*O*- β -D-Glucopyranosyl-catalpol, 8613
 Melittoside, 13710
 Rehmansioside A, 18596
 Rehmansioside B, 18597
- C₂₁H₃₃NO₃**
 Dictysine, 5458
- C₂₁H₃₃NO₄**
 16 β -Hydroxycardiopetaline, 9895
- C₂₁H₃₃NO₇**
 Lasiocarpine, 12535
- C₂₁H₃₃O₃**
O-Methylpisiferic acid, 14680
- C₂₁H₃₄NO₂⁺**
N-Isopentenyl dendrobine, 11585
- C₂₁H₃₄N₂**
 Wrightiamine A, 22735
- C₂₁H₃₄O**
 Cardanol, 3188
- C₂₁H₃₄O₂**
 Bilobol, 2380
 1,4-Epoxy-16-hydroxyheneicos-1,3,12,14-tetraene, 7118
 5 β ,20-Epoxy-20-methoxy-ros-15-ene, 7165
 3-(Pantadec-10-enyl)-catechol, 16622
 5-Pregnene-3 β ,20 α -diol, 17801
- C₂₁H₃₄O₃**
 Hydroginkgolic acid, 9718
 2 α -Hydroxy-3,13-clerodadien-15-oic acid methyl ester, 9920
 2 β -Hydroxy-3,13-clerodadien-15-oic acid methyl ester, 9921
 2 β -Hydroxy-9-epi-*ent*-labda-8(17),13(*Z*)-dien-15-oic acid, 10076
 (*S*)-12-Hydroxygeranylgeranic acid methyl ester, 10145
 Isoobtusilactone B, 11568
 Obtusilactone B, 15904
 5-Pregnene-3 β ,17 α ,20 α -triol, 17803
 Siegesmethyletheric acid, 19880
 Toosendansterol A, 21449
 Toosendansterol B, 21450
- C₂₁H₃₄O₄**
 Annosquamosin D, 1328
 Ceriopsin B, 3424

- [10]-Gingerol, 8397
Methyl 16 α ,17-dihydroxy-*ent*-kauran-19-oate, 14304
- C₂₁H₃₄O₅**
Annosquamosin F, 1330
15-Epi-sibiricinone D, 7020
15-Epi-sibiricinone E, 7021
Sibiricinone D, 19861
Sibiricinone E, 19862
Utendin, 22285
- C₂₁H₃₄O₆**
Deniagenin, 5129
Sarcostin, 19361
- C₂₁H₃₄O₈**
Dendromonilide A, 5116
Dictamnolide L, 5453
- C₂₁H₃₄O₉**
Alatoside B, 839
Celerioside A, 3378
Dendroside F, 5125
- C₂₁H₃₄O₁₀**
Dendromonilide D, 5119
Dendroside G, 5126
(*Z*)-(1*S*,5*R*)- β -Pinen-10-yl- β -vicianoside, 17378
Sacranoside A, 19109
(1*S*,5*R*,7*R*,10*R*)-Secoatractylolactone
11-*O*- β -*D*-glucopyranoside, 19606
- C₂₁H₃₄O₁₁**
(1*R*,4*S*,6*S*)-6-Hydroxycamphor- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9879
Patrinoside, 16720
Valerosidatum, 22323
- C₂₁H₃₄O₁₃**
Phyllaemblicin D, 17207
- C₂₁H₃₄O₁₄**
Rehmannioside C, 18598
- C₂₁H₃₅NO**
Funtumine, 8010
Wrightiamine B, 22736
- C₂₁H₃₅O₇**
(5*R*,7*R*,10*S*)-Isopteroicarpolone β -*D*-glucopyranoside, 11634
- C₂₁H₃₆N₂O**
Holarrhidine, 9586
Holarrhimine, 9587
- C₂₁H₃₆O₂**
Alkylresorcinol A, 911
Casealactone, 3257
ent-16 α -Methoxy-kauran-17-ol, 13984
Methyl labd-13*E*-en-15-oate, 14546
5 α -Pregnane-3 β ,20 β -diol, 17784
- C₂₁H₃₆O₄**
[10]-Gingediol, 8385
- C₂₁H₃₆O₅**
Agallochin M, 693
Desacylkondurangenin C, 5242
 γ -Eudesmol 11- α -*L*-rhamnoside, 7516
Tomentogenin, 21437
- C₂₁H₃₆O₇**
Atractyloside C, 1976
1 β -*D*-Glucopyranosyloxy-6 α -hydroxy-eudesman-4(15)-ene, 8692
Liriopeoside A, 12919
- C₂₁H₃₆O₈**
Alatoside A, 838
Atractyloside G, 1979
Celerioside B, 3379
Celerioside C, 3380
Celerioside D, 3381
Dendroside A, 5122
Dendroside E, 5124
Dictamnolide H, 5449
(1*S*,4*S*,5*R*,7*R*,10*R*)-11,14-Dihydroxyguai-3-one
11-*O*- β -*D*-glucopyranoside, 5902
Integrifoside A, 11095
Integrifoside B, 11096
- C₂₁H₃₆O₉**
Dictamnolide A, 5446
Dictamnolide B, 5447
Integrifoside C, 11097
Integrifoside D, 11098
(1*S*,4*S*,5*S*,7*R*,10*R*)-10,11,14-Trihydroxyguai-3-one
11-*O*- β -*D*-glucopyranoside, 21739
(1*S*,4*S*,5*S*,7*R*,10*S*)-10,11,14-Trihydroxyguai-3-one
11-*O*- β -*D*-glucopyranoside, 21740
- C₂₁H₃₆O₁₀**
Atractyloside A, 1973
Borneol-2-*O*- β -*D*-apiofuranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 2551
Borneol-2-*O*- α -*L*-arabinofuranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 2552
10-Epiatractyloside A, 6833
2-(8-Methyl-2,8-dihydroxy-9-oxo-2-hydroxymethylbicyclo[5.3.0]decan-7-yl)isopropanol glucoside, 14316
Neohancoside A, 15401
Shionoside A, 19831
(4*S*)- α -Terpineol *O*- β -*D*-Apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 20996
- C₂₁H₃₆O₁₁**
(1*S*,2*S*,4*R*)-*p*-Menth-8-ene-1,2-diol 2-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 13747
Neohancoside B, 15402
- C₂₁H₃₇N₃O₂**
Anhydrocannabisativine, 1262
- C₂₁H₃₈O₄**
Glyceril linolenate I, 8814
- C₂₁H₃₈O₆**
Cryptomeridiol 11- α -*L*-rhamnoside, 4284
- C₂₁H₃₈O₈**
Celerioside E, 3382
Dendronobiloside B, 5121
Icariside C₃, 10948
Ophiopogonoside A, 16150
- C₂₁H₃₈O₉**
Dictamnolide I, 5450
Dictamnolide J, 5451
- C₂₁H₃₈O₁₀**
Atractyloside B, 1975
Dictamnolide K, 5452
2-(8-Methyl-2,8,9-trihydroxy-2-hydroxymethylbicyclo[5.3.0]decan-7-yl)isopropanolglucoside, 14782
O- β -*D*-Oleandropyranosyl-(1 \rightarrow 4)-*O*- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranose, 16032
- C₂₁H₃₉N₇O₁₃**
Reticulin, 18654
- C₂₁H₃₉O₅**
Enaimeone A, 6780
- C₂₁H₄₀O₂**
Methyl 11-eicosenoate, 14336
- C₂₁H₄₀O₄**
 α -Monoolein, 14929
 β -Monoolein, 14930
- C₂₁H₄₀O₅**
Monoricinolein, 14932
- C₂₁H₄₁NO**
1-(14-Methylhexadecanoyl)pyrrolidine, 14487
- C₂₁H₄₂O₂**
Heneicosanoic acid, 9360
Methyl eicosanoate, 14335
- C₂₁H₄₂O₄**
1,2-*O*-[2'-Hydroxyoctadecyl]-glycerol, 10548
1-*O*-Octadecanoyl glycerol, 15951
- C₂₁H₄₄**
Heneicosane, 9359
3-Methyl eicosane, 14334
- C₂₂H₁₄O₆**
3,3'-Biplumbagin, 2402
3,8'-Biplumbagin, 2403
Chitranone, 3541
Diospyrin, 6459
Isodiospyrin, 11379
Isozeylanone, 11790
Mamegakinone, 13463
Neodiospyrin, 15392
- C₂₂H₁₅N₃O₄**

- Lycogaric acid A, 13197
C₂₂H₁₆O₅
 Latinone, 12559
C₂₂H₁₆O₆
 6 α ,12 α -Dehydromillettone, 4949
C₂₂H₁₆O₇
 8-*C-p*-Hydroxybenzylkaempferol, 9845
C₂₂H₁₆O₁₀
 Amurenisin, 1090
C₂₂H₁₆O₁₂
 Fumarprotocetraric acid, 7998
C₂₂H₁₆O₁₅S
 Myricatin, 15168
C₂₂H₁₇NO₄
 Crinasiatine, 4239
C₂₂H₁₇N₃O₃
 Cinereapyrrole B, 3691
C₂₂H₁₇N₃O₄
 Cinereapyrrole A, 3690
C₂₂H₁₈N₂O₅
 20-*O*-Acetylcampthothecin, 341
C₂₂H₁₈O₄
 Diospyrol, 6460
 1-*p*-Hydroxybenzyl-4-methoxyphenanthrene-2,7-diol, 9848
 Ovalifolin, 16274
C₂₂H₁₈O₅
 Chamanetin, 3463
 Howiinin A, 9654
 Isochamanetin, 11321
C₂₂H₁₈O₆
 Vitrofolal C, 22592
C₂₂H₁₈O₇
 Chaihunaphthone, 3451
 Chinensinaphthol methyl ether, 3532
 12a-Epimillettosin, 6971
 Griffonianone B, 9008
 Justicidin A, 11977
 Justicidin C, 11979
C₂₂H₁₈O₈
 Cleistanone, 3816
 Dehydropodophyllotoxin, 4962
C₂₂H₁₈O₉
 4',5',7-Triacetoxy-2'-methoxyisoflavone, 21528
 Triacetylhispidulin, 21534
C₂₂H₁₈O₁₀
 (-)-Epicatechin-3-*O*-gallate, 6864
C₂₂H₁₈O₁₁
 Epigallocatechin 3-gallate (EGCG), 6923
 (+)-Leucocyanidin gallate, 12715
C₂₂H₁₈O₁₂
 Chicoric acid, 3518
C₂₂H₁₈O₁₃
 4-(4'-*O*-Acetyl- α -rhamnopyranosyl)ellagic acid, 492
 Nyssoside, 15880
C₂₂H₁₈O₁₈S₂²⁻
 Isoscutellarein 4'-methyl ether 8-*O*- β -*D*-glucuronide 2'',4''-disulfate, 11709
C₂₂H₁₉NO₅
 Ethoxysanguinarine, 7416
C₂₂H₁₉NO₆
 Bungeanine, 2744
C₂₂H₁₉NO₉
 3,4-Methylenedioxy-10-hydroxy aristololactam-*N*- β -*D*-glucoside, 14370
C₂₂H₁₉NO₁₀
 Aristolactam AIIIa *N*- β -*D*-glucoside, 1694
C₂₂H₁₉O₁₅S⁻
 Isoscutellarein 4'-methyl ether 8-*O*- β -*D*-glucuronide 2''-sulfate, 11710
C₂₂H₂₀NO₅⁺
 Chelilutine, 3507
C₂₂H₂₀NO₆⁺
 Leptocarpine, 12672
C₂₂H₂₀O₄
 Gymconopin A, 9099
 Gymconopin B, 9100
 1-(*p*-Hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol, 9846
 3-(*p*-Hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol, 9847
C₂₂H₂₀O₅
 3,5-Dimethoxy-2'',2''-dimethylpyrano-(5'',6'':8,7)-flavone, 6222
 Dimethylalpinumisoflavone, 6313
 Gnetupendin A, 8897
 Rhinacanthin M, 18776
C₂₂H₂₀O₆
 Gnetupendin B, 8898
 Howiinol A, 9655
 Indicanine E, 11016
 Millettocalyxin B, 14857
C₂₂H₂₀O₇
 β -Apocicropodophyllin, 1533
 Artoindonesianin S, 1817
 Methyl 4,4'-dimethoxyvulpinate, 14321
C₂₂H₂₀O₈
 Isopropodophyllone, 11592
 (*cis*-head-to-head)-Limettin dimer, 12836
 (*cis*-head-to-tail)-Limettin dimer, 12837
 Peperomin E, 16906
 Propodophyllone, 17341
 Podophyllotoxone, 17594
C₂₂H₂₀O₉
 3,5-Diacetyltambulin, 5347
 Hyosgerin, 10874
 Venkatasin, 22376
C₂₂H₂₀O₁₀
 Licoagroside C, 12759
C₂₂H₂₀O₁₁
 Baicalein 6-methylether-7-*O*- β -galactopyranuronoside, 2105
 Irlone 4'-*O*- β -*D*-glucoside, 11159
 Kaempferol-3-*O*- α -*L*-3''-acetyl-arabinofuranoside, 12021
 Kaempferol-3-*O*- α -*L*-5''-acetyl-arabinofuranoside, 12022
 Oroxylin A 7-*O*-glucuronide, 16217
 Palustrinoside, 16575
 Wogonoside, 22720
C₂₂H₂₀O₁₂
 Bracteoside, 2585
 Clerodendroside A, 3839
 3,4'-*O*-Dimethylellagic acid 4-*O*- α -*L*-rhamnopyranoside, 6347
 Hispidulin-7-*O*-glucuronide, 9566
 Isoscutellarein 4'-methyl ether 8-*O*- β -*D*-glucuronide, 11707
 Quercetin-3-*O*- α -*L*-(3''-*O*-acetyl)-arabinofuranoside, 18319
 Quercetin-3-*O*- α -*L*-(5''-*O*-acetyl)-arabinofuranoside, 18320
 3,5,4'-Trihydroxy-6,7-methylenedioxyflavone-3-*O*- β -*D*-glucopyranoside, 21799
C₂₂H₂₁NO₅
 Bocconoline, 2523
 Chelerythrine methanolate, 3499
C₂₂H₂₁N₃O₂
 Acetonylevodiamine, 114
C₂₂H₂₂NO₆
 Alborine, 866
C₂₂H₂₂N₂O₄
 Venacarpine A, 22372
C₂₂H₂₂O₄
 3,3'-Dihydroxy-2-(4-hydroxybenzyl)-5-methoxybibenzyl, 5905
 Microphyllone, 14844
C₂₂H₂₂O₅
 Anticancer Flavonoid PMV70P691-107, 1410
 Ponganone I, 17713
 Praecansone B, 17753
C₂₂H₂₂O₆
 Erypoeigin G, 7313
 Glycyrin, 8838
 Licoricone, 12794
C₂₂H₂₂O₇
 Angelafolone, 1187
 Anhydropodorhizol, 1280

- Anthricin, 1372
 Anthricin isomer, 1373
 Artoindonesianin Q, 1815
 Artoindonesianin R, 1816
 Baohuosu, 2144
 Dulxanthone E, 6633
 Isoanthricin, 11228
 Isochaihulactone, 11318
 Nemerisin, 15331
 Pyramidatin H, 18248
- C₂₂H₂₂O₈**
 Anticancer Glycerol Ester PMV70P691-118, 1423
 (2*S*,3*S*)-2,3-Bis(5-methoxy-3,4-methylene-dioxybenzyl)-butyrolactone, 2483
 7-Hydroxyanhydropodorhizol, 9789
 β-Peltatin, 16794
 Picropodophyllin, 17337
 Podophyllotoxin, 17592
- C₂₂H₂₂O₉**
 Chrysoeriol 6-*C*-β-*L*-boivinopyranoside, 3605
 Formononetin-7-glucoside, 7885
 Isoanonin, 11576
 Kaplanin, 12157
 8-Methoxy-5-*O*-glucoside flavone, 13942
 4'-*O*-Methylpuerarin, 14706
 Nantenoside A, 15247
 Nantenoside B, 15248
 Strobilanthin, 20393
- C₂₂H₂₂O₁₀**
 Acacetin-7-*O*-β-*D*-galactopyranoside, 57
 Anthraglycoside A, 1362
 Derriscandenoside A, 5222
 Echioidinin-2'-*O*-β-*D*-glucopyranoside, 6695
 Echioidinin-5-*O*-β-*D*-glucopyranoside, 6696
 2-(β-*D*-Glucopyranosyloxy)-8-hydroxy-1-methoxy-3-methyl-9,10-anthraquinone, 8696
 Glycitiin, 8819
 3'-Hydroxy-4'-methoxyisoflavone-7-*O*-β-*D*-glucoside, 10413
 Isoswertisin, 11724
 Lasianthuoside A, 12531
 α-Maackiaian-β-*D*-glucoside, 13282
 7-Methoxykaempferol 3-*O*-α-*L*-rhamnopyranoside, 13983
 3'-Methoxypuerarin, 14080
 Physcion-8-*O*-β-*D*-glucopyranoside, 17251
 Prunetin 4'-*O*-β-*D*-glucopyranoside, 18002
 Pteroisoauroside, 18106
 Sophojaponicin, 20079
 Swertisin, 20515
 Tilianin, 21391
 Wogonin 5-β-*D*-glucoside, 22719
- C₂₂H₂₂O₁₁**
 Azalein, 2053
 Chrysoeriol 4'-*O*-β-*D*-glucopyranoside, 3608
 Chrysoeriol 7-*O*-β-*D*-glucopyranoside, 3609
 2-*O*-Cinnamoyl-glucogallin, 3703
 (2*S*)-7,2'-Dihydroxy-5-methoxyflavone 7-*O*-β-*D*-glucuronopyranoside, 5980
 Diosmetin 7-*O*-β-*D*-glucopyranoside, 6453
 3-*O*-β-*D*-Glucopyranosyl-5,9,4'-trihydroxy-8-methoxyflavone, 8744
 Homoplataginin, 9617
 Isorhamnetin-3-α-*L*-rhamnofuranoside, 11663
 Isorhamnetin 3-*O*-rhamnoside, 11666
 Isoscoparin, 11699
 Leptosin, 12678
 Nodososide, 15654
 Oroboside-3'-methylether, 16212
 Putorinoside B, 18227
 Rhamnocitrin-3-*O*-β-*D*-glucoside, 18684
 7α-*L*-Rhamnosyl-6-methoxyluteolin, 18743
 Stachannin A, 20252
 Swertiajaponin, 20505
 Tectoridin, 20900
 5,7,2'-Trihydroxy-8-methoxyflavone 2'-*O*-β-*D*-glucopyranoside, 21778
 5,7,2'-Trihydroxy-8-methoxyflavone 7-*O*-β-*D*-glucopyranoside, 21779
- C₂₂H₂₂O₁₂**
 Alliumoside A, 925
 Cacticin, 2843
 Dracunculifoside B, 6581
 Eriodietyl 7-*O*-β-*D*-(6'-methylester)-glucuronopyranoside, 7277
 Eupafolin-7-glucoside, 7557
 4-*O*-(6'-*O*-Galloyl-β-*D*-glucopyranosyl)-*cis*-*p*-coumaric acid, 8104
 2-(3-Hydroxy-4-methoxyphenyl)-3,5-dihydroxy-7-*O*-β-*D*-glucopyranoside-4*H*-1-benzopyran-4-one, 10437
 Isorhamnetin-3-*O*-glucoside, 11659
 Isorhamnetin-5-*O*-glucoside, 11660
 Mearnsitrin, 13628
 6-Methoxykaempferol 3-*O*-glycoside, 13982
 3-*O*-Methyl quercetin 7-*O*-β-*D*-glucopyranoside, 14711
 Ordoritin-glucoside, 16173
 Pedaliin, 16757
 Putorinoside A, 18226
 Rhamnetin-3-galactoside, 18680
- C₂₂H₂₂O₁₃**
 1-*O*-(*E*)-Caffeoyl-3-*O*-galloyl-β-*D*-glucopyranose, 2902
 3-*O*-(*E*)-Caffeoyl-4-*O*-galloyl-β-*D*-glucopyranose, 2903
- Myricomplanoside, 15188
 Patuletin-3-*O*-β-*D*-galactopyranoside, 16726
 Patuletin 3-*O*-β-*D*-glycopyranoside, 16727
 Patuletin-7-*O*-β-*D*-glucopyranoside, 16728
 Quercetagetin 7-methylether-3-*O*-β-*D*-glucopyranoside, 18313
 Quercetagetin 7-methylether-4'-*O*-β-*D*-glucopyranoside, 18314
 5,7,3',4'-Tetrahydroxy-8-methoxyflavonol-3-*O*-β-*D*-galactoside, 21127
- C₂₂H₂₃NO₄**
 Ochotensimine, 15917
 Tylophoridicine D, 22148
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- C₂₂H₂₃NO₅**
 3α,7β-Dibenzoyloxy-6β-hydroxy-tropine, 5385
 Tylophoridicine E, 22149
 Tylophoridicine F, 22150
- C₂₂H₂₃NO₆**
 Corydalic acid methyl ester, 4102
 Simulansamide, 19905
- C₂₂H₂₃NO₇**
 α-Narcotine, 15266
 β-Narcotine, 15267
- C₂₂H₂₃NO₈**
 Acuminaminoside, 590
- C₂₂H₂₃O₁₁⁺**
 Malvidin-3-arabinoside, 13457
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- C₂₂H₂₃O₁₂**
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- C₂₂H₂₄CINO₆**
 Romucosine F, 18905
- C₂₂H₂₄NO₄⁺**
 Dehydrocorydaline, 4889
- C₂₂H₂₄N₂O₃**
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 β-Colubrine, 3931
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- C₂₂H₂₄N₂O₄**
 11-Demethoxymyrtoidine, 5050
 16-Hydroxy-α-colubrine, 9930
 16-Hydroxy-β-colubrine, 9931
 2-Hydroxy-3-methoxystrychnine, 10457
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 6-Oxoalstophyllal, 16292
 6-Oxoalstophylline, 16293
 3-Oxo-11-methoxytabersonine, 16379
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- C₂₂H₂₄N₂O₅**
Methyl
11,12-methylenedioxy-*N*₁-decarbomethoxychano-
nofruticosinate, 14596
- C₂₂H₂₄N₂O₆**
10,11-Dimethoxynareline, 6270
- C₂₂H₂₄O₄**
Anticancer Flavonoid PMV70P691-82, 1413
Candidone, 3072
Taxamairin B, 20746
Xuulanin, 22810
- C₂₂H₂₄O₅**
(2*S*)-5,7-Dimethoxy-8-(2*R*-hydroxy-3-methyl-
3-butenyl)-flavanone, 6245
(2*S*)-5,7-Dimethoxy-8-(2*S*-hydroxy-3-methyl-
3-butenyl)-flavanone, 6246
Glyasperin K, 8802
Sigmoidin B-4'-methyl ether, 19886
Spherosinin, 20152
- C₂₂H₂₄O₅**
Tomentolide B, 21439
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Schizandrin C, 19497
Urinatetralin, 22258
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- C₂₂H₂₄O₇**
6β-Acetylteuscordin, 525
Aschantin, 1843
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5,5'-dimethoxy-7,7'-epoxylignan, 6348
Echinoisoflavanone, 6690
Epiaschantin, 6832
Gomisin R, 8924
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Heteroclitin G, 9466
Melafolone, 13653
Nodifloridin A, 15649
Pyramidatin F, 18246
Urinaligran, 22257
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- C₂₂H₂₄O₈**
trans-4,5-Bis(4-acetoxy-3-methoxyphenyl)-1,3-
dioxacyclohexane, 2424
Butyl rosmarinate, 2805
(8*R*,8'*R*)-4-Hydroxycubebinone, 9949
(2*S*,3*S*)-2-(4-Hydroxy-3,5-dimethoxybenzyl)-3-
(5-methoxy-3,4-methylenedioxybenzyl)butyrol
actone, 10015
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- C₂₂H₂₄O₉**
9,9-Bisacetylneoolivil, 2426
3,5,6,7,3',4',5'-Heptamethoxyflavone, 9403
3,5,6,8,3',4',5'-Heptamethoxy flavone, 9404
3,5,7,8,3',4',5'-Heptamethoxyflavone, 9405
5,6,7,8,3',4',5'-Heptamethoxy flavone, 9406
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Medicarpin-3-*O*-glucoside, 13639
- C₂₂H₂₄O₁₀**
Biochanin-7-glucoside, 2386
4''-Hydroxyimperatorin 4''-*O*-β-*D*-glucopyra-
noside, 10231
Licoagroside D, 12760
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Scorzocreticoside I, 19562
2,3,5,4'-Tetrahydroxystilbene-2-*O*-(6''-*O*-acetyl)-
β-*D*-glucopyranoside, 21154
- C₂₂H₂₄O₁₁**
Caffeoyl calleryanin, 2894
Hesperetin-5-glucoside, 9457
Lanceolin, 12466
3'-Methyl eriodictyol-7-*O*-β-*D*-glucoside, 14418
7-*O*-Methyl luteolin-6-*C*-β-*D*-glucoside, 14566
Mopanolside, 14950
Protogenkwanin-4'-glucoside, 17974
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- C₂₂H₂₄O₁₂**
Torachryson-8-*O*-β-*D*-(6'-oxayl)-glucoside,
21454
4-*O*-β-*D*-(6-*O*-Vanilloyl glucopyranosyl) vanillic
acid, 22343
- C₂₂H₂₅NO**
Exozoline, 7697
- C₂₂H₂₅NO₂**
Lobelanine, 12938
Mahanimbiniine, 13399
- C₂₂H₂₅NO₆**
Colchicine, 3911
N-Ethoxycarbonyllauretanine, 7397
Glaudine, 8523
β-Lumicolchicine, 13073
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- C₂₂H₂₅N₂O₇**
Pseudopalmatine methyl nitrate, 18054
- C₂₂H₂₆Br₃N₃O₄**
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N-Methylphoebine, 14674
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Alstonerinal, 999
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Alstophyllal, 1005
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- Corynantheine, 4114
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- C₂₂H₂₆N₂O₄**
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fruticosinate, 14585
Raumitorine, 18551
Reserpinine 1, 18634
- C₂₂H₂₆N₂O₅**
Vineridine, 22502
Volkensine, 22610
- C₂₂H₂₆N₂O₆**
Alkaloid US-7, 906
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11,12-Methylenedioxykopsinaline *N*(4)-oxide,
14373
- C₂₂H₂₆N₄**
Calycanthine, 3002
Chimonanthine, 3527
- C₂₂H₂₆O₄**
(+)-Bornyl piperate, 2563
Cannabinolic acid, 3083
Danshenol B, 4628
- C₂₂H₂₆O₅**
6-Allyl-7-(3,4-dimethoxyphenyl)-2,3-dimethoxy-
8-methyl-tricyclo[4.2.0.0^{2,8}]oct-3-en-5-one,
946
(-)-Aristoligone, 1709
3,4-Dimethoxy-3',4'-methylenedioxy-7,9'-epoxy-
lignan-9-ol, 6262
(+)-8,8'-Epi-aristoligone, 6830
(-)-8,8'-Epi-aristoligone, 6831
Glyasperin D, 8799
Mammearin A, 13472
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- C₂₂H₂₆O₆**
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- (-)-Gomisin L₂, 8919
 (±)-Gomisin M₁, 8920
 (+)-Gomisin M₂, 8921
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 2,3-Dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-methoxy-5-benzofuranpropionyl acetate, 5641
 1-[2,4-Dihydroxy-3-(3-hydroxy-2-methoxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)propanone, 5911
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 (+)-4-Hydroxy-2,6-di(3,4-dimethoxyphenyl)-3,7-dioxabicyclo[3.3.0]octane, 9995
 Neociwujiaphenol, 15365
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 (+)-Syringaresinol, 20556
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 Teucrolivin H, 21220
 Xerophilusin E, 22790
- C₂₂H₂₆O₉**
 Ciwujiatone, 3783
 Daldinin C, 4611
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- C₂₂H₂₆O₁₀**
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 Benzyl 2β-*O*-*D*-glucopyranosyl-3,6-dimethoxybenzoate, 2289
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- Melampyroside, 13656
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- C₂₂H₂₆O₁₁**
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 Curculigoside, 4385
 1'-*O*-β-*D*-(3,4-Dihydroxyphenyl)-ethyl-6'-*O*-vanilloyl-glucopyranoside, 6085
 7-*O*-Methyl leucopelargonidin-3-mono-glucofuranoside, 14552
 4'-*O*-Methyl leucopelargonidin-3-mono-glucofuranoside, 14553
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 Yunngnoside A, 22955
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 Catalposide, 3307
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- C₂₂H₂₆O₁₃**
 Seguinose H, 19671
 3,4,5-Trimethoxyphenyl (6'-*O*-galloyl)-β-*D*-glucopyranoside, 21926
 Verproside, 22419
- C₂₂H₂₇ClO₈**
 Eupachifolin D, 7539
 Eupachlorin acetate, 7551
- C₂₂H₂₇ClO₉**
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- C₂₂H₂₇NO₂**
 Lobeline, 12939
- C₂₂H₂₇NO₃**
 Cyclostachine A, 4536
 2,3-Dimethoxy-6-(3-oxo-butyl)-7,9,10,11,11a,12-hexahydrobenzo[*f*]pyrrolo[1,2-*b*]isoquinoline, 6272
 7'-(4'-Hydroxy,3'-methoxyphenyl)-*N*-[(4-butylphenyl)ethyl]propanamide, 10435
- C₂₂H₂₇NO₄**
 (+)-Corydaline, 4103
 Thalicsessine, 21245
- C₂₂H₂₇NO₅**
 Didehydrostemofoline, 5470
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- C₂₂H₂₇O₁₁S**
 (-)-Lyoniresinol-2a-sulfate, 13254
- C₂₂H₂₈N₂O₂**
N(4)-Methyl-*N*(4),21-seco-talpinine, 14724
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- C₂₂H₂₈N₂O₃**
 Dihydrocorynantheine, 5569
 Hirsutine, 9553
- 10-Methoxycathafoline, 13878
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 10-Methoxycathafoline *N*(4)-oxide, 13879
 11-Methoxyhumantenine, 13948
 9-Methoxy-3-*epi*-α-yohimbine, 14108
 Rhynchophylline, 18826
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- C₂₂H₂₈N₂O₅**
 Anti-isorhynchophylline *N*-oxide, 1458
 Kopsifoline B, 12263
 Rhynchophylline *N*-oxide, 18827
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- C₂₂H₂₈N₂O₆**
 Kopsifoline C, 12264
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- C₂₂H₂₈N₂O₁₁**
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- C₂₂H₂₈O₃**
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- C₂₂H₂₈O₄**
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- C₂₂H₂₈O₅**
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 (+)-Galbelgin, 8089
 (±)-Galgravin, 8093
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- C₂₂H₂₈O₇**
 16-*O*-Acetylcoleon C, 358
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 3 β -Angeloyloxy-8 β -ethoxyeremophil-7(11)-ene-12,8 α (14 β ,6 α)-diolide, 1223
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- C₂₂H₂₈O₈**
 3 β -Acetoxy-9 β -angeloyloxy-1 β ,10 β -epoxy-8 α -hydroxyeremophil-7(11)-en-8 β (12)-olide, 123
 8 α -[(4-Acetoxy-5-hydroxy)-angelate]salonitenolide, 206
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 (+)-Lyoniresinol, 13249
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 8 α -Tigloyloxyanthemolide C, 21379
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- C₂₂H₂₈O₉**
 8-*O*-Angeloyl-9-*O*-acetylanthemolide B, 1204
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 8 α -(3'-Hydroxy-4'-acetoxy-2'-methylene-butanoyloxy)4-epi-sonchucarpolide, 9760
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- C₂₂H₂₈O₁₃**
 5-Methylcoumarin-4-cellobioside, 14255
 5-Methylcoumarin-4-gentiobioside, 14256
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 Racemosic acid, 18513
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- C₂₂H₂₉NO₂**
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- C₂₂H₂₉NO₃**
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- C₂₂H₂₉NO₄**
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- C₂₂H₂₉NO₆**
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- C₂₂H₂₉NO₆S**
 β -Hydroxygerambullal, 10138
- C₂₂H₂₉N₂O₄**
 Echitamine, 6699
- C₂₂H₃₀NO₄⁺**
N,N-Dimethylanomurine, 6316
- C₂₂H₃₀N₂O₂**
 Aspidospermine, 1904
- C₂₂H₃₀N₂O₃**
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 Malagashanol, 13417

C₂₂H₃₀O₂

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 14349
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C₂₂H₃₀O₃

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C₂₂H₃₀O₅

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C₂₂H₃₀O₆

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- C₂₂H₃₄O₁₂**
6-Hydroxythymol 3,6-di-*O*- β -*D*-glucopyranoside, 10763
- C₂₂H₃₄O₁₅**
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- C₂₂H₃₆O₁₂**
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- C₂₂H₃₇NO**
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- C₂₂H₄₁NO**
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- C₂₃H₁₈O₁₄**
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3'-*O*- α -3"-*O*-acetyl-rhamnopyranoside, 14338
3-*O*-Methyllellagic acid
3'-*O*- α -4"-*O*-acetyl-rhamnopyranoside, 14339
4-*O*-Methyllellagic acid
3'-(3"-*O*-acetyl)- α -rhamnoside, 14340
4-*O*-Methyllellagic acid
3'-(4"-*O*-acetyl)- α -rhamnoside, 14341
- C₂₃H₂₁NO₁₀**
Aristolactam-*N*- β -*D*-glucoside, 1697
- C₂₃H₂₁NO₁₃**
Aristoloside, 1725
- C₂₃H₂₂NO₃⁺**
Tylophoricidine C, 22147
- C₂₃H₂₂N₂O₅**
Isaindigotidione, 11187
- C₂₃H₂₂O₄**
8-(α , β -Dimethylallyl)-pongamol, 6309
1-(4-Hydroxybenzyl)-4,7-dimethoxy-9,10-dihydrophenanthrene-2-ol, 9837
- C₂₃H₂₂O₅**
Ananixanthone, 1135
Cudraxanthone Q, 4345
Demethylcalabaxanthone, 5064
Inoxanthone, 11086
Isouvaretin, 11751
Mergueneone, 13782
Nigrolineaxanthone K, 15584
Trapezifolixanthone, 21503
Uvaretin, 22290
- C₂₃H₂₂O₆**
Bangangxanthone A, 2135
Barbigerone, 2148
Caledonixanthone M, 2963
Caloxanthone A, 2998
Deguelin, 4872
Garcinone B, 8219
Gerontoxanthone A, 8354
Gerontoxanthone B, 8355
3-Hydroxyblancoxanthone, 9857
Latisxanthone D, 12560
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Nigrolineaxanthone G, 15580
(+)-Purpurin 2, 18223
Rotenone, 18939
Smeathxanthone B, 20019
Subelliptenone H, 20436
- C₂₃H₂₂O₇**
Anticancer Flavonoid PMV70P691-105, 1408
3,4 β -Dihydro-15-dehydro-lactucopicrin, 5585
12 α -Hydroxyrotenone, 10680
12 α -Hydroxyrotenone, 10681
Lactucopicrin, 12447
Pongapinone A, 17715
Sumatrol, 20485
(-)-Tephrosin, 20965
 α -Toxicarol, 21483
 β -Toxicarol, 21484
Usararotenoid C, 22279
- C₂₃H₂₂O₈**
Chaetoquadrin J, 3449
11-Hydroxytephrosin, 10741
- C₂₃H₂₂O₁₀**
6"-*O*-Acetylaidzin, 361
8-*O*- β -*D*-(6'-*O*-Acetyl)glucopyranosylchrysophanol, 401
5,3'-Diacetoxy-3,6,7,4'-tetramethoxyflavone, 5319
Phymarolin II, 17203
- C₂₃H₂₂O₁₁**
6"-*O*-Acetylgenistin, 398
Germanaism B, 8350
Kaempferol-3-*O*-(2-*O*-acetyl- α -*L*-rhamnopyra-noside), 12024
Kaempferol-3-*O*-(3-*O*-acetyl- α -*L*-rhamnopyra-noside), 12025
Kaempferol-3-*O*-(4-*O*-acetyl- α -*L*-rhamnopyra-noside), 12026
Pongamoside D, 17712
1,3,6-Trihydroxy-2-methyl-9,10-anthra-quinone-3-*O*-(6'-*O*-acetyl)- β -*D*-glucoside, 21794
- C₂₃H₂₂O₁₂**
2"-*O*-Acetylquercitrin, 491
- C₂₃H₂₂O₁₃**
Myricetin-3-*O*-(2"-*O*-acetyl- α -rhamnopyranoside), 15173
3,3',4'-Trimethyl-4'-*O*- β -*D*-glucopyranosyl-ellagic acid, 21961
- C₂₃H₂₂O₁₅S**
Tamarixetin 3-glucoside-7-sulphate, 20659
- C₂₃H₂₃NO₃**
Buxifoliadine D, 2826
Severifoline, 19790
- C₂₃H₂₃NO₄**
Atalaphyllinine, 1959
- C₂₃H₂₃NO₅**
Ethoxychelerythrine, 7399
Waltherione A, 22634
- C₂₃H₂₃NO₆**
Acetylcorynoline, 359
Acetyliscorynoline, 438
- C₂₃H₂₃NO₁₀**
Nandinin, 15244
- C₂₃H₂₄O₄**
Cudraphenone A, 4339
Gymconopin D, 9102
5-Hydroxy-4-(*p*-hydroxybenzyl)-3',3-dimethoxy-bibenzyl, 10176
- C₂₃H₂₄O₅**
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Cudraphenone C, 4341
8-Desoxygartanin, 5276
7-Geranyloxy-1,3-dihydroxyxanthone, 8323
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7-*O*-Methoxypraecansone B, 14075
Nigrolineaxanthone J, 15583
Nigrolineaxanthone Q, 15590
Subelliptenone B, 20435
1,3,7-Trihydroxy-2,4-bis(3-methyl-2-butenyl)-xanthone, 21691
- C₂₃H₂₄O₆**
Alvaxanthone, 1010
Anticancer Flavonoid PMV70P691-106, 1409
BR-Xanthone A, 2685
Cudraxanthone J, 4343

- Cudraxanthone P, 4344
 Demethoxy-cochinchinone D, 5044
 Gartanin, 8235
 Gerontoxanthone G, 8357
 Gerontoxanthone I, 8359
 Isoalvaxanthone, 11206
 Isonormangostin, 11564
 Ixerochinolide, 11802
 Mangostenone D, 13490
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 Mangoxanthone, 13496
 Montrouxanthone, 14948
 Morusignin H, 14986
 Nigrolineaxanthone M, 15586
 Patulone, 16730
 Pongapinone B, 17716
 Smeathxanthone A, 20018
 1,4,5,6-Tetrahydroxy-7,8-di(3-methylbut-2-enyl)xanthone, 21099
- C₂₃H₂₄O₇**
 Cudraxanthone R, 4346
 (2*S*)-5,7-Dimethoxy-8-(2*S*-hydroxy-3-methyl-3-butenyl)-3',4'-methylenedioxyflavanone, 6247
 Garcimangosone C, 8208
 Morusignin E, 14985
 (*R*)-Saclenone, 19108
- C₂₃H₂₄O₈**
 3,7-Dihydroxy-3'-(2-hydroxy-3-methyl-3-butenyl)-5,6,4'-trimethoxyflavone, 5916
 5,7-Dihydroxy-3'-(2-hydroxy-3-methyl-3-butenyl)-3,6,4'-trimethoxyflavone, 5917
 Hernandin, 9443
 β -Peltatin A methyl ether, 16797
- C₂₃H₂₄O₁₀**
 Andrographidine C, 1153
 Lasianthuoside B, 12532
 2,4,6-Trihydroxyacetophenone 3-*C*- β -(2'-*O*-*E*-cinnamoyl)-glucopyranoside, 21680
- C₂₃H₂₄O₁₁**
 Abrusin, 28
 Camaroside, 3027
 5,7-Dihydroxy-8,2'-dimethoxyflavone-7-*O*- β -*D*-glucopyranoside, 5831
 6,4'-dimethoxy-5-hydroxyflavone 7-glucoside, 6241
 5-Hydroxyaloin A 6'-*O*-acetate, 9774
 Irisolidone-7-*O*- α -*D*-glucoside, 11172
 4'-Methyltectorigenin 7-glucoside, 14740
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 2,4,6-Trihydroxyacetophenone 3-*C*- β -(2'-*O*-*E*-coumaroyl)-glucopyranoside, 21681
- C₂₃H₂₄O₁₂**
 Andrographidine B, 1152
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 Burkinabin A, 2761
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 Cirsiliol-4'-monoglucoside, 3744
 3',4'-Dimethoxy-5,7,5'-trihydroxyflavone 3-*O*- α -*L*-rhamnopyranoside, 6296
 Eriodictyl 7-*O*- β -*D*-(6'-ethyl ester)-glucuronopyranoside, 7276
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 Rhamnazin-3-*O*- β -*D*-glucoside, 18675
 Tricin-7-*O*- β -*D*-glucopyranoside, 21590
- C₂₃H₂₄O₁₃**
 7,4'-Dimethoxy-8,3',5'-trihydroxy-6-*O*- β -*D*-glucopyranosylisoflavone, 6295
 Gossypetin-3,8-dimethyl ether-5-*O*- β -glucoside, 8961
 Limocitrin- β -*D*-glucoside, 12839
 Quercetin-3-*O*-(6''-acetyl)- β -*D*-galactopyranoside, 18321
 Syringetin-3-*O*- β -*D*-galactopyranoside, 20562
 Syringetin-3-*O*- β -*D*-glucoside, 20563
 Viscidulin III-6'-*O*- β -*D*-glucopyranoside, 22534
- C₂₃H₂₄O₁₄**
 Myricetin-3-*O*-(6''-acetyl)- β -*D*-galactopyranoside, 15171
- C₂₃H₂₅NO**
 Bicyclomahanimbicine, 2354
 Bicyclomahanimbine, 2355
 Cyclomahanimbine, 4515
 Isomahanimbine, 11520
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- C₂₃H₂₅NO₂**
 Clausenatine A, 3790
- C₂₃H₂₅NO₃**
 Boehmeriasin B, 2529
 7-Demethoxytylophorine, 5055
 1-Epi-dioncophylline B, 6896
 3,6,7-Trimethoxyphenanthroindolizidine, 21921
- C₂₃H₂₅NO₄**
 Dioncophyllinol B, 6433
 Tylophorinine, 22153
- C₂₃H₂₅NO₅**
 Bassianin, 2161
 Buxifoliadine E, 2827
- C₂₃H₂₅NO₆**
 Gnoscopine, 8902
- C₂₃H₂₅O₁₂⁺**
 Oenin, 16010
- C₂₃H₂₆N₂O₃**
 16-Ethoxystrychnine, 7417
- C₂₃H₂₆N₂O₄**
 Brucine, 2678
 Isobrucine, 11265
 3-Methoxycajine, 13972
- C₂₃H₂₆N₂O₅**
 Akuammiline *N*(4)-oxide, 827
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 Isobrucine *N*-oxide, 11266
 Myrtoidine, 15226
 Pseudobrucine, 18021
- C₂₃H₂₆N₄O₃**
 Argentine, 1672
- C₂₃H₂₆O₄**
 Clusiaphenone B, 3850
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 4 β -Demethylxuananin-4 β -ethyl ether, 5103
 (\pm)-*trans*-3-(4-Hydroxy-3-methoxyphenyl)-4-[(*E*)-3,4-dimethoxystyryl]cyclohex-1-ene, 10438
- C₂₃H₂₆O₅**
 Cudraphenone D, 4342
 2,6-Dihydroxy-4-[(*E*)-5-hydroxy-3,7-dimethyl-octa-2,7-dienyloxy] benzophenone, 5908
 Ethylnotopterol, 7466
 3 β -Methoxyxuananin, 14105
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 Vismiaguianone B, 22546
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- C₂₃H₂₆O₆**
 Nigrolineaxanthone L, 15585
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- C₂₃H₂₆O₈**
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- C₂₃H₂₆O₁₀**

- Andrographidine A, 1151
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- C₂₃H₂₆O₁₁**
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 Decentapicrin A, 4845
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- C₂₃H₂₆O₁₂**
 2'-(*o,m*-Dihydroxybenzyl) sweroside, 5772
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 Polygalaxanthone VI, 17634
- C₂₃H₂₆O₁₃**
 Mallophenol A, 13424
 1-*O*-Vanillic acid-6-*O*-(3'',5''-dimethoxy-galloyl)-*β*-*D*-glycoside, 22333
- C₂₃H₂₆O₁₅**
 5,6-*O*-*β*-*D*-Diglucopyranosylangelicin, 5528
- C₂₃H₂₇NO₃**
 Hispidine, 9562
- C₂₃H₂₇NO₆**
 Ambinine, 1023
- C₂₃H₂₇NO₇**
 Methoxymecambridine, 13994
 Romucosine G, 18906
- C₂₃H₂₇NO₈**
 Narceine, 15263
- C₂₃H₂₈N₂O₄**
 Paynantheine, 16735
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- C₂₃H₂₈N₂O₅**
 19-(*R*)-Acetoxylidihydrogelsevirine, 161
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 Quaternine, 18303
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- C₂₃H₂₈N₂O₆**
 Rauvoxine, 18558
- C₂₃H₂₈O₅**
 2,6-Dihydroxy-4-[(*E*)-7-hydroxy-3,7-dimethyl-octa-2-enyloxy]benzophenone, 5909
rel-(5*S*,6*S*,7*R*,10*R*,12*S*,13*R*)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide, 9793
rel-(5*S*,6*S*,7*S*,10*R*,12*R*,13*S*)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide, 9794
rel-(5*S*,6*S*,7*S*,10*R*,12*S*,13*R*)-7-Hydroxyapiana-8,14-diene-11,16-dion-(22,6)-olide, 9795
- C₂₃H₂₈O₆**
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- C₂₃H₂₈O₇**
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 (-)-Thujaplicatin trimethyl ether, 21345
- C₂₃H₂₈O₈**
 Albaspidin AB, 849
erythro-2,3-Bis(4-acetoxy-3-methoxyphenyl)-3-ethoxypropan-1-ol acetate, 2425
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 (-)-Hernolactone, 9453
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 (8*R*,8'*R*,9'*S*)-5-Methoxyclusin, 13898
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- C₂₃H₂₈O₉**
 2,3-Epoxyjuanisamin, 7153
- C₂₃H₂₈O₁₀**
 9,10-Dimethoxy-pterocarpane-3-*O*-*β*-*D*-glucoside, 6291
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 Methyl-9*β*-(epoxyangeloyloxy)-5*α*,6*α*-dihydroxy-2-oxo-3,4-dehydro-*δ*-guaian-12-oate, 14406
 3*S*-(-)-Mucronulatol-7-*D*-glucopyranoside, 15022
- C₂₃H₂₈O₁₁**
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 Albiflorin R₁, 861
 Aquaticoside A, 1538
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 Glochiflavanoside A, 8571
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 (S)-4-(4-Hydroxyphenyl)-2-butanol 2-*O*-(6-*O*-galloyl)-*β*-*D*-glucopyranoside, 10612
 Paeoniflorin, 16525
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- C₂₃H₂₈O₁₂**
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- C₂₃H₂₈O₁₃**
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- C₂₃H₂₈O₁₄**
 2-Methoxy-5-(1',2',3'-trihydroxypropyl)phenyl-1-*O*-(6''-galloyl)-*β*-*D*-glucopyranoside, 14101
- C₂₃H₂₉NO₃**
 Piperundecalidine, 17471
- C₂₃H₂₉NO₆**
 Dehydroprotostemonine, 4964
 Haplotubine, 9228
- C₂₃H₂₉NO₇**
 Oxyprotostemonine, 16470
- C₂₃H₂₉N₃O₂**
 Celabenzine, 3356
- C₂₃H₃₀NO₅⁺**
N-Methylpurpurine, 14708
- C₂₃H₃₀N₂O₄**
 Acetyl-alstohentine, 310

- Mitragynine, 14886
 Speciociliatine, 20138
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- C₂₃H₃₀N₂O₅**
 12-Hydroxy-19-epi-malagashanine, 10079
 7-Hydroxymitragynine, 10528
- C₂₃H₃₀O₄**
 2-(4',8'-Dimethylnona-3',7'-dienyl)-8-hydroxy-2-methyl-2*H*-chromene-6-carboxylic methyl ester, 6379
- C₂₃H₃₀O₅**
 Ardisinone E, 1649
 Euglobal Ia₁, 7527
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- C₂₃H₃₀O₆**
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- C₂₃H₃₀O₇**
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- C₂₃H₃₀O₈**
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- C₂₃H₃₀O₉**
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- C₂₃H₃₀O₁₁**
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 Broceaketolic acid, 2616
 (1*S*,2*R*)-1-(4'-*O*-β-*D*-Glucopyranosyl-3'-methoxyphenyl)-2-(4"-hydroxy-3"-methoxyphenyl)-1,3-propanediol, 8681
 6-*O*-(4-Methoxybenzoyl)-ajugol, 13850
- C₂₃H₃₀O₁₂**
 Diospyronaphthoside, 6461
 Nishindaside, 15628
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 6-*O*-Vanilloylajugol, 22339
- C₂₃H₃₁NO**
 1-Methyl-2-(4*Z*,7*Z*)-4,7-tridecadienyl-4(1*H*)-quinolinone, 14771
- C₂₃H₃₁NO₃**
 Piperchabamide B, 17441
- C₂₃H₃₁NO₄**
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- C₂₃H₃₁NO₆**
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- C₂₃H₃₁NO₈**
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- C₂₃H₃₁NO₉**
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- C₂₃H₃₂O₃**
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- C₂₃H₃₂O₄**
 14-Deoxy-15-isopropylidene-11,12-didehydroandrographolide, 5183
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 Xysmalogenin, 22856
- C₂₃H₃₂O₅**
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 2,3-Epoxy-jaeschkeanadiol *p*-methoxybenzoate, 7152
 Jaeschkeanadiol vanillate, 11811
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o-Methylshikocin, 14727
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- C₂₃H₃₂O₆**
 16-Acetoxy-7α-methoxyroleanone, 256
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- C₂₃H₃₂O₈**
 Dihydroacanthospermal A, 5537
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- C₂₃H₃₂O₉**
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- C₂₃H₃₂O₁₀**
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- C₂₃H₃₂O₁₁**
 CPB-2001-49-1359-1, 4203
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 5-*O*-β-*D*-xylopyranosyl(1→6)-β-*D*-glucopyranoside, 6336
 Ovatic acid methyl ester 7-*O*-(6'-*O*-*p*-hydroxybenzoyl)-β-*D*-glucopyranoside, 16277
- C₂₃H₃₂O₁₂**
 Celephthalide B, 3373
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- C₂₃H₃₂O₁₃**
 Dracunculifoside G, 6586
- C₂₃H₃₂O₁₅**
 Arillanin C, 1683
 Sibiricose A₆, 19866
- C₂₃H₃₃NO**
 Evocarpine, 7663
 1-Methyl-2-[(*Z*)-7-tridecenyl]-4(1*H*)-quinolone, 14741
- C₂₃H₃₃NO₃**
 2-(12-Oxo-tridecanyl)-3-methoxy-4-quinolone, 16431
- C₂₃H₃₃NO₆**
 Methoxystemokerrin-*N*-oxide, 14094
- C₂₃H₃₃NO₆S**
O-Methylsakerinol A, 14716
- C₂₃H₃₄O₂**
 10(*Z*),13(*E*),15(*E*)-Heptadecatrienylhydro-

- quinone, 9383
- C₂₃H₃₄O₄**
Digitoxigenin, 5525
Proceragenin, 17870
Uzariogenin, 22301
- C₂₃H₃₄O₅**
7-Acetoxy-3-oxo-4(3→2)-abeo-2(4),13-clerodadien-15-oic acid methyl ester, 268
7-Acetoxy-2-oxo-3,13-clerodadien-15-oic acid methyl ester, 269
Bryophollenone, 2688
Coroglucigenin, 4077
Farfaratin, 7716
Gitoxigenin, 8460
(2*S*,3*R*,4*S*)-3-Hydroxy-4-methyl-2-(11'-piperonyl-*n*-undecyl)-butanolide, 10516
Nelumol C, 15327
Otogirone, 16269
Periplogenin, 16959
Rabdocoetsin C, 18458
Sarmetogenin, 19372
Sugikurojin D, 20460
Tussilagone, 22144
- C₂₃H₃₄O₆**
12-*O*-Acetylneolone, 448
Bakkenolide H, 2122
8-Hydroxy-periplogenin, 10599
Nelumol D, 15328
Nelumol E, 15329
Strophanthidol, 20401
Wikstroemioidin B, 22670
- C₂₃H₃₄O₇**
Adenolin D, 622
Anhydrocinnzeylanine, 1263
Enanderianin H, 6788
Metaplexigenin, 13813
Nigakilactone J, 15555
Xindongnin L, 22808
- C₂₃H₃₄O₈**
Adenolin C, 621
Adenolin E, 623
Enanderianin G, 6787
Lasiokaurinin, 12538
Pirolatin, 17476
Wikstroemioidin D, 22672
- C₂₃H₃₄O₉**
11-Homohydroxyldidrovaltrate, 9610
Hypoloside A, 10901
- C₂₃H₃₄O₁₂**
1,5-Bis(β -*D*-glucopyranosyloxy-2-(3',3'-dimethylallyl) benzene, 2454
- C₂₃H₃₄O₁₃**
Jioglutoside B, 11880
- C₂₃H₃₄O₁₄**
Lysidisiide B, 13262
- C₂₃H₃₄O₁₅**
Genameside C, 8268
Genameside D, 8269
Genipingentiobioside, 8274
- C₂₃H₃₅ClO₅**
Guisinol, 9084
- C₂₃H₃₅NO**
2-Tridecyl-1-methyl-4(1*H*)-quinolone, 21624
- C₂₃H₃₅NO₃**
2-(10-Hydroxy-10-methyldodecanyl)-3-methoxy-4-quinolone, 10486
2-(11-Hydroxy-11-methyldodecanyl)-3-methoxy-4-quinolone, 10487
2-(12-Hydroxytridecanyl)-3-methoxy-4-quinolone, 10783
Lepedine, 12667
- C₂₃H₃₅NO₆**
Gadesine, 8044
Tatsidine, 20726
- C₂₃H₃₅O₁₆**
6'-*O*- β -*D*-Glucopyranosylmorroneiside, 8685
- C₂₃H₃₆O₂**
Alkylresorcinol C, 912
10'(Z),13'(E)-Heptadecadienylhydroquinone, 9376
- C₂₃H₃₆O₃**
7 β -Ethoxy-12-methoxy-8,11,13-abietatrien-11-ol, 7410
S-20, 19095
- C₂₃H₃₆O₄**
Ardisiphenol B, 1651
- C₂₃H₃₆O₅**
2-Acetoxy-5-methoxy-6-methyl-3-tridecyl-1,4-benzoquinone, 255
2 β -Hydroxy-7-acetoxy-3,13-clerodadien-15-oic acid methyl ester, 9751
3 α -Hydroxy-7-acetoxy-4(18),13-clerodadien-15-oic acid methyl ester, 9752
3 β -Hydroxy-7-acetoxy-4(18),13-clerodadien-15-oic acid methyl ester, 9753
2-Methoxy-5-acetoxy-6-methyl-3-tridecyl-1,4-benzoquinone, 13830
- C₂₃H₃₆O₆**
Asebotoxin II, 1849
Leoheteronone A, 12632
Leoheteronone C, 12634
- C₂₃H₃₆O₈**
Asebotoxin III, 1850
- C₂₃H₃₆O₁₄**
Capillipnin, 3124
Pheloside, 17079
- C₂₃H₃₇NO₂**
Kurchaline, 12345
Kurchiline, 12348
Kurchiphylline, 12350
- C₂₃H₃₇NO₄**
Sachaconitine, 19107
- C₂₃H₃₇NO₅**
Crispulidine, 4242
Isotalatizidine, 11728
- C₂₃H₃₇NO₆**
Dihydrogadesine, 5618
Senbusine A, 19702
Senbusine B, 19703
Umbrofine, 22199
- C₂₃H₃₇NO₇**
Takaosamine, 20648
- C₂₃H₃₇O₅**
Norerythrochaldine, 15746
- C₂₃H₃₈N₂**
Conessimine, 3967
Isoconessimine, 11340
- C₂₃H₃₈O₂**
10'(Z)-Heptadecenylhydroquinone, 9386
5-(Heptadec-12*E*-enyl)resorcinol, 9387
5-(Heptadec-12*Z*-enyl)resorcinol, 9388
- C₂₃H₃₈O₃**
Belamcandol A, 2216
- C₂₃H₃₈O₄**
(*E,Z,Z*)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-5,12,15-triene, 234
Ardisiphenol A, 1650
[12]-Gingerol, 8398
Irisoquin A, 11173
Isopropyl idenekireinol, 11623
- C₂₃H₃₈O₇**
Asebotoxin I, 1848
- C₂₃H₃₉NO**
Funtumafrine C, 8009
- C₂₃H₃₉NO₉S₂**
14-Deoxy-12-(cysteine-*S*-yl)-andrographolide-3-*O*-sulfate, 5164
- C₂₃H₄₀O₂**
Laccol, 12428
- C₂₃H₄₀O₃**
Zuihoenalide, 23029
- C₂₃H₄₀O₄**
(*Z,Z*)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-12,15-diene, 233
- C₂₃H₄₁NO₂**
Terminaline, 20976
- C₂₃H₄₁NO₄**
8-Ethoxysachaconitine, 7415
- C₂₃H₄₂N₂**

- Epipachysamine F, 6995
- C₂₃H₄₂O₂₀**
Chalconaringenin 2'-*O*-β-*D*-glucoside-4'-*O*-β-gentiobioside, 3456
- C₂₃H₄₆NO₃**
1,3-Dihydroxy-2-hexanoylamino-(4*E*)-heptadecene, 5904
- C₂₃H₄₆O₂**
n-Tricosanoic acid, 21595
- C₂₃H₄₆O₄**
Glyceryl-1-eicosanoate, 8812
- C₂₃H₄₇NO₈**
Germine, 8353
- C₂₃H₄₈**
n-Tricosane, 21594
- C₂₃H₄₈O**
12-Tricosanol, 21596
- C₂₄H₁₆O₁₂**
Laccaic acid B, 12425
2-*O*-Phloroecol, 17172
- C₂₄H₁₈N₂O₄**
Caulerpin, 3333
- C₂₄H₁₈O₅**
Ohioensin B, 16020
- C₂₄H₁₈O₆**
Ethylidene-3,3'-biplumbagin, 7448
Ethylidene-3,6'-biplumbagin, 7449
Ohioensin D, 16022
- C₂₄H₁₉N₃O₄**
Lycogarubin C, 13199
- C₂₄H₁₉N₃O₅**
Lycogarubi B, 13198
- C₂₄H₂₀O₆**
Diosindigo A, 6450
- C₂₄H₂₀O₉**
Cinchonain Ia, 3680
- C₂₄H₂₀O₁₀**
3-Carboxy-6,7-dihydroxy-1-(3',4'-dihydroxyphenyl)-naphthalene-9,5"-*O*-shikimic acid ester, 3168
Gyrophoric acid, 9185
- C₂₄H₂₁N₃O₆**
Hyperectine, 10882
- C₂₄H₂₁O₁₃**
5-Carboxypyranocyanidin-3-*O*-β-glucopyranoside, 3182
- C₂₄H₂₂O₅**
Mesuagin, 13805
- C₂₄H₂₂O₆**
Eurycomalin A, 7649
- C₂₄H₂₂O₇**
JSPC0305368-18, 11894
- C₂₄H₂₂O₈**
Curtisian O, 4411
Thonningine C, 21336
- C₂₄H₂₂O₉**
Curtisian L, 4408
Tetraacetylbrazilin, 21033
- C₂₄H₂₂O₁₀**
Liquidamboside, 12905
Lysidicichin, 13260
Pongamoside B, 17710
Pongamoside C, 17711
- C₂₄H₂₂O₁₂**
Chrysophanol 8-*O*-β-*D*-(6'-*O*-malonyl) glucopyranoside, 3621
- C₂₄H₂₂O₁₃**
Quercetin-3-*O*-α-*L*-3",5"-diacetyl-arabinofuranoside, 18337
- C₂₄H₂₂O₁₄**
Quercetin-3-*O*-(4"-*O*-malonyl)-α-*L*-rhamnopyranoside, 18375
- C₂₄H₂₂O₁₅**
Myricetin-3-*O*-(4"-*O*-malonyl)-α-*L*-rhamnopyranoside, 15183
Quercetin-3-*O*-(6"-malonyl)-*D*-galactoside, 18373
Quercetin-3-*O*-malonyl-β-*D*-glucoside, 18374
- C₂₄H₂₃NO₅**
(±)-6-Acetyl-dihydrochelerythrine, 112
6-Acetyl-dihydrochelerythrine, 113
- C₂₄H₂₃O₁₄⁺**
Cyanidin-3-*O*-(6"-*O*-malonyl-β-glucopyranoside), 4445
- C₂₄H₂₃O₁₅**
Delphinidin-3-neohesperidoside, 5029
- C₂₄H₂₄N₂O₁₃**
Neobetatin, 15343
- C₂₄H₂₄O₄**
Inophynone, 11080
Isoinophynone, 11464
- C₂₄H₂₄O₅**
Mammea A/BD, 13470
Mesuol, 13811
- C₂₄H₂₄O₆**
Anhydromangostanol*, 1277
1,5-Dihydroxy-3-methoxy-6',6'-dimethyl-2*H*-pyrano(2',3':6,7)-4-(3-methylbut-2-enyl)xanthone, 5974
Disparinol D, 6515
Dulcisxanthone F, 6631
Garcimangosone B, 8207
Mammea A/AC cyclo F, 13471
10-*O*-Methylmacluraxanthone, 14572
Racemosol, 18514
- C₂₄H₂₄O₇**
Anticancer Flavonoid PMV70P691-025, 1403
Kweichowenol A, 12397
Linixanthone A, 12886
- C₂₄H₂₄O₈**
3",4"-DihydrothonningineC, 5727
- C₂₄H₂₄O₉**
4,5-Dihydro-5'-α-hydroxy-4'α-methoxy-6α,12α-dehydro-α-toxicarol, 5638
Picropodophyllotoxin acetate, 17342
Steganacin, 20284
- C₂₄H₂₄O₁₀**
3-Carboxy-6-methoxy-1-(3',4'-dihydroxyphenyl)-naphthalene-7-*O*-α-*L*-rhamnopyranoside, 3177
- C₂₄H₂₄O₁₁**
Agastachoside, 709
2-*O*-(*E*)-Caffeoyl-1-*O*-*p*-(*E*)-coumaroyl-β-*D*-glucopyranose, 2895
Isoagastachoside, 11200
Phymarolin I, 17202
Quercitrin derivative CPB-50-208-18, 18413
- C₂₄H₂₄O₁₂**
Chrysoeriol 4'-*O*-(6"-*O*-acetyl)-β-*D*-glucopyranoside, 3603
1,2-Di-*O*-(*E*)-caffeoyl-β-*D*-glucopyranose, 5407
1,3-Di-*O*-(*E*)-caffeoyl-β-*D*-glucopyranose, 5408
3,6-Di-*O*-caffeoyl-(α/β)-glucose, 5409
Germanaism A, 8349
7-(6-*O*-Malonyl-β-*D*-glucopyransyloxy)-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 13445
Neocomplanoside, 15371
- C₂₄H₂₄O₁₃**
Meamsetin 3-*O*-(4"-*O*-acetyl)-α-*L*-*C_r*-rhamnopyranoside, 13626
- C₂₄H₂₅NO₄**
Ancistroheynine A, 1144
Ancistroheynine B, 1145
Ancistolikokine D, 1146
- C₂₄H₂₅NO₅**
O-Methyl-waltherione A, 14815
- C₂₄H₂₅NO₁₁**
Oleracein A, 16074
- C₂₄H₂₆N₂O₈**
Pauciflorine A, 16731
- C₂₄H₂₆N₂O₁₃**
Betanin, 2322
Gomphrenin I, 8927
Gomphrenin II, 8928
Isobetatin, 11252
- C₂₄H₂₆N₂O₁₆S**
Prebetanin, 17770
- C₂₄H₂₆O₄**
Albafuran A, 844
Mulberrofuran L, 15046

- Mulberrofuran V, 15053
Myrtilphenone B, 15225
- C₂₄H₂₆O₅**
2,3-Dihydro-7-hydroxy-2*R**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*),7-pentenyl]-furo[2,3-*b*]chromone, 5630
2,3-Dihydro-7-hydroxy-2*S**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*),7-pentenyl]-furo[2,3-*b*]chromone, 5631
2,3-Dihydro-7-hydroxy-2*R**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-pentenyl]-furo[3,2-*c*]coumarin, 5632
2,3-Dihydro-7-hydroxy-2*S**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-pentenyl]-furo[3,2-*c*]coumarin, 5633
- C₂₄H₂₆O₆**
Caloxanthone B, 2999
Cochinchinone C, 3872
Cowaxanthone, 4202
Cudrafrutixanthone, 4336
Dulcisxanthone B, 6627
Gerontoxanthone E, 8356
1-Isomangostin, 11526
3-Isomangostin, 11527
Mangostin, 13492
4-[3''-(1*c*-Methylbutanoyloxy)propyl]-2-methoxy-(3',4'-methylenedioxyphenyl)-1*a*,5*b*-dihydrobenzo-[3,4]-cyclobutaoxirene, 14172
Nigrolineaxanthone E, 15578
1,3,6-Trihydroxy-7-methoxy-2,5-bis(3-methyl-2-butenyl)-xanthone, 21768
- C₂₄H₂₆O₇**
(+)-Anomalin, 1346
Anomalin, 1347
Archangelicin, 1619
Cochinchinone D, 3873
Disenecionyl *cis*-khellactone, 6507
11-Hydroxy-1-isomangostin, 10250
Mangostanin A, 13485
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Mangostenol, 13487
Nigrolineaxanthone B, 15575
Praeruptorin D, 17763
Xanthalin, 22744
- C₂₄H₂₆O₈**
Catalpafurxin, 3304
Interiorin C, 11101
Isomallotochromene, 11522
Mallotochromene, 13430
Mangostenone C, 13489
Picropodophyllin-1-ethyl ether, 17338
6-Prenylisocaviunin, 17834
1'',2'',3'',4''-TetrahydrothoningineC, 21081
- C₂₄H₂₆O₁₀**
Anticancer Rotenoid PMV70P691-036, 1436
4',5'-Dihydro-11,5'-dihydroxy-4'-methoxytyphrosin, 5595
Scrophuloside A, 19569
Scrophuloside B, 19570
- C₂₄H₂₆O₁₁**
Andrographidine E, 1155
Leptostachyol, 12679
Spiriformin D, 20192
- C₂₄H₂₆O₁₂**
Cirsilineol-4'-monoglucoside, 3742
Cyrtophyllin, 4589
Dracunculifoside C, 6582
5-Hydroxy-6,7,3'-trimethoxyflavone-8-*O*- β -*D*-glucoside, 10797
Vavain 3'-*O*- β -*D*-glucopyranoside, 22359
Viscumneoside VI, 22541
- C₂₄H₂₆O₁₃**
Benzenepropanoic acid, 8-{{[7'-(3',4'-dihydroxy-phenyl)-9'-oxo-7'-propenyl]oxy}-3-(1''-*O*- β -*D*-glucopyranosyl)-4-hydroxy-[*R*-(*E*)], 2223
Centaurein, 3389
Iridin, 11141
- C₂₄H₂₆O₁₄**
Isolimocitrol-3- β -*D*-glucoside, 11492
Limocitrol- β -*D*-glucoside, 12841
Sibiricaxanthone A, 19856
Sibiricaxanthone B, 19857
- C₂₄H₂₇NO₃**
Boehmeriasin A, 2528
8-*O*-Methyl-1-epi-dioncophylline B, 14396
- C₂₄H₂₇NO₄**
Buxifoliadine B, 2824
N-Methylalaphylline, 14149
8-*O*-Methyldioncophyllinol B, 14325
Tylocrebrine, 22146
Tylophorine, 22151
- C₂₄H₂₇NO₆**
Merredissine, 13784
- C₂₄H₂₈Br₃N₃O₆**
Purpuramine K, 18212
- C₂₄H₂₈N₂O₃**
16-Propoxystrychnine, 17934
- C₂₄H₂₈N₂O₅**
Novacine, 15847
- C₂₄H₂₈N₂O₆**
Methyl 12-methoxychanofrucosinate, 14584
Terrestribisamide, 21005
- C₂₄H₂₈N₄O₄**
Ergosecalimine, 7242
- C₂₄H₂₈O₃**
Ugonstilbene A, 22186
Ugonstilbene B, 22187
Ugonstilbene C, 22188
- C₂₄H₂₈O₄**
Angelicide, 1190
Chlorophorin, 3567
Clausarin, 3788
Conferone, 3970
(*Z,Z'*)-Diligustilide, 6192
(\pm)-*trans*-3-(3,4-Dimethoxyphenyl)-4-[(*E*)-3,4-dimethoxystyryl]cyclohex-1-ene, 6282
Ligustilide dimer, 12826
Norbixin, 15720
Ponfolin, 17706
Vismiaphenone C, 22550
- C₂₄H₂₈O₅**
2,3-Dihydro-7-hydroxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadien-6-onyl]-furo[3,2-*c*]coumarin, 5626
Pseudoguttiaphenone-A, 18027
Shijiaocao lactone, 19804
Z-3',8',3' α ,7' α -Tetrahydro-6,3',7,7' α -diligustilide-8'-one, 21068
- C₂₄H₂₈O₆**
Nigrolineaxanthone O, 15588
- C₂₄H₂₈O₇**
3'(*S*)-Angeroyloxy-4'(*R*)-isovaleryloxy-3',4'-dihydroxanthyletin, 1239
Cratoxylone, 4220
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Hyuganin A, 10922
(+)-Praeruptorin E, 17764
 ψ -Rhodomyrtoxin, 18814
- C₂₄H₂₈O₈**
Acetylbinankadsurin A, 333
Mangostenone E, 13491
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Xanthanthusin H, 22751
Xanthanthusin I, 22752
Xanthanthusin J, 22753
- C₂₄H₂₈O₉**
6-Acetylpicropoline, 486
Anticancer Lignan PMV70P691-126, 1426
(2*S*,3*S*)-2,3-Bis(5-methoxy-3,4-methylenedioxybenzyl)-butane-1,4-diol monoacetate, 2482
Daldinin E, 4612
Daldinin F, 4613
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- C₂₄H₂₈O₁₀**
Agrimonolide-6-*O*- β -*D*-glucopyranoside, 761
- C₂₄H₂₈O₁₁**
Bacopaside B, 2085
10-*O*-*trans*-Coumaroyl-eranthemoside, 4154

- (-)-7-*O*-Methyleucomol 5-*O*- β -*D*-glucopyranoside, 14437
 Monnieraside II, 14918
 Myrciacitrin II, 15148
 Pagoside, 16536
 Picroside I, 17344
- C₂₄H₂₈O₁₂**
 Breynioside B, 2612
 Cucurbitoside E, 4334
 12,15-Diacetyl-13 α (21)-epoxyeurycomanone, 5334
 Javanicin, 11852
 Odontoside, 15989
- C₂₄H₂₈O₁₃**
 Gentiopicroside tetraacetate, 8305
 Verminoside, 22403
- C₂₄H₂₉ClO₇**
 Armillarinin, 1740
- C₂₄H₃₀N₂O₅**
 Vindorosine, 22501
- C₂₄H₃₀O₃**
 α,α' -Dihydro-3,5,4'-trihydroxy-4,5'-diisopentenylstilbene, 5729
 Ferulenol, 7767
 Glepidotin D, 8551
 14 β -Hydroxybufa-3,5,20,22-tetraenolide, 9860
 Umbelliprenin, 22196
- C₂₄H₃₀O₄**
 Assafoetidin, 1909
 Badrakemin, 2096
 Conferol, 3969
 (*Z*)-3,8-Dihydro-6,6';7,3' α -diligustilide, 5599
 2,3-Dihydro-7-hydroxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[2,3-*b*]chromone, 5627
 2,3-Dihydro-7-hydroxy-2*R**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[3,2-*c*]coumarin, 5628
 2,3-Dihydro-7-hydroxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[3,2-*c*]coumarin, 5629
 α,α' -Dihydro-3,5,3',4'-tetrahydroxy-4,5'-diisopentenylstilbene, 5725
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- C₂₄H₃₀O₅**
 Assafoetidol A, 1910
 Galbanic acid, 8087
 4-[(2'*E*)-7"-Hydroxy-3",7"-dimethyloct-2"-enyl]-2',3',4',5'-tetrahydroxy-*trans*-stilbene, 10054
 Kamolonol, 12127
 Neveskone, 15517
 3-Oxo-20*S*,21-epoxyresibufogenin, 16329
 3-Oxo-11 α -hydroxy-12-dehydroxy-scilliphaeosidin, 16349
 Resibufagin, 18636
- C₂₄H₃₀O₆**
 Armillaripin, 1741
 Bufotalinin, 2723
 Caesaldekarin E, 2862
 Magnoshinin, 13392
 Obtusanal A, 15896
 19-Oxodesacetylcinobufagin, 16312
- C₂₄H₃₀O₇**
 Apetalic acid 5-*O*-acetate, 1471
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 Kaempferol-3-*O*-(3,4-di-*O*-acetyl- α -*L*-rhamnopyranoside), 12037
- C₂₅H₂₄O₁₃**
 Trifolirhizin-6''-*O*-malonate, 21638
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- C₂₅H₂₄O₁₅**
 Mearnsetin 3-*O*-(4''-*O*-malonyl)- α -*L*-rhamnopyranoside, 13627
- C₂₅H₂₅O₁₃⁺**
 Peonidin-3-*O*-(6''-*O*-malonyl- β -glucopyranoside), 16902
- C₂₅H₂₆BrN₅O₁₃**
 Surugatoxin, 20496
- C₂₅H₂₆N₂O₉**
 Naucleosidine, 15299
- C₂₅H₂₆O₃**
 8,8-Dimethyl-2-phenyl-10-prenyl-2,3-dihydro-8*H*-pyrano[3,2-*g*]chroman-4-one, 6397
- C₂₅H₂₆O₄**
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 Euchrenone, 7484
 Hispaglabridin B, 9558
 3-Hydroxy-4-(3,3-dimethylallyl)-4'',5''-dehydropyrano[8,9:2'',3''][6*aR*,11*aR*]-pterocarpane, 10047
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- C₂₅H₂₆O₅**
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 (*E*)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2*H*-benzopyran-6-yl)-2-propen-1-one, 6024
 6,8-Diprenylgenistein, 6496
 Dulcisioflavone, 6625
 2-Geranylemodin, 8315
 3-Geranyloxy-6-methyl-1,8-dihydroxyanthraquinone, 8325
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 Lespedezol A₂, 12683
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- C₂₅H₂₆O₆**
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 Erysenegalensein E, 7317
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- Mammee A/AB cyclo E, 13465
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 5,7,2',4'-Tetrahydroxy-3-geranylfavone, 21116
 2',3,5-Trihydroxy-6,7-(2'',2''-dimethylchromene)-8-(3'',3''-dimethylallyl)-flavanone, 21719
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 5,7,3',4'-Tetrahydroxy-6-geranylfavonol, 21117
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- C₂₅H₂₆O₉**
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- C₂₅H₂₆O₁₀**
 (5*S*,6*S*,7*R*)-2-[2-(2-Acetoxyphenyl)ethyl]-5 α ,6 β ,7 α -triacetoxy-5,6,7,8-tetrahydrochromone (AH9), 275
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- C₂₅H₂₆O₁₁**
 Apigenin-7-*O*- β -D-glucuronide butyl ester, 1495
 4',6''-Diacetyl puerarin, 5345
- C₂₅H₂₆O₁₃**
 Apigenin-6-*C*- α -*L*-arabinopyranosyl-8-*C*- β -*L*-arabinopyranoside, 1480
 Apigenin-6-*C*- α -*L*-arabinopyranosyl-8-*C*- β -*D*-xylopyranoside, 1481
 Apigenin-6-*C*- β -*D*-xylopyranosyl-8-*C*- α -*L*-arabinopyranoside, 1501
 6-*C*- β -*L*-Arabinopyranosyl-8-*C*- α -*L*-arabinopyranosylapigenin, 1560
 6- β -*C*-(2'-Galloylglucopyranosyl)-5,7-dihydroxy-2-isopropylchromone, 8105
 8- β -*C*-(2'-Galloylglucopyranosyl)-5,7-dihydroxy-2-isopropylchromone, 8106

- Viscumneoside II, 22537
- C₂₅H₂₇NO₄**
Ancistrocladidine, 1141
- C₂₅H₂₇NO₅**
Ancistrocladisine, 1143
- C₂₅H₂₇NO₁₂**
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- C₂₅H₂₈O₄**
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(*E*)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxy-3-[3-methyl-2-butenyl]phenyl)-2-propen-1-one, 6025
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- C₂₅H₂₈O₅**
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Bartericin B, 2154
Bartericin C, 2155
2,3-Dihydro-7-methoxy-2*S**,3*R**-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(*E*)-pentenyl]-furo[3,2-*c*]coumarin, 5669
6,8-Diprenylnaringenin, 6497
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Eryzerin A, 7354
(2*S*)-Euchrenone A₁₆, 7486
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3'-Geranyl-2',3,4,4'-tetrahydroxychalcone, 8330
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Kushenol A, 12354
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2',4',4'-Trihydroxy-3'-[2-hydroxy-7-methyl-3-methylene-6-octaenyl]chalcone, 21749
- C₂₅H₂₈O₆**
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3'-(γ,γ -Dimethylallyl)-kievitone, 6307
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(2*R*,3*R*)-Lespedezaflavanone C, 12681
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Pluviatilol- γ,γ -dimethylallyl ether, 17572
Soporaflavanone G, 20086
2',3,4,4'-Tetrahydroxy-3'-[6-hydroxy-3,7-dimethyl-2(*E*),7-octadienyl]chalcone, 21119
- C₂₅H₂₈O₇**
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- C₂₅H₂₈O₈**
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- C₂₅H₂₈O₁₀**
5-[3''- β -*D*-Glucopyranosyloxy)propyl]-7-methoxy-2-(3',4'-methylenedioxyphenyl)benzofuran, 8709
- C₂₅H₂₈O₁₁**
Dracunculifoside K, 6590
6-Hydroxy-5-methyl-3',4',5'-trimethoxyaurone
4-*O*- α -*L*-rhamnopyranoside, 10522
Shakuchirin, 19794
Umbilicaxanthoside A, 22197
- C₂₅H₂₈O₁₂**
Andrographidine D, 1154
Chrysoobtusin glucoside, 3613
- C₂₅H₂₈O₁₃**
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Polycaudoside A, 17621
- C₂₅H₂₈O₁₄**
2-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl]-1,8-dihydroxy-6-methoxyxanthone, 18736
- C₂₅H₂₈O₁₅**
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8-*O*-Primeverosylbellidifolin, 17854
1-*O*-Primeverosyl-3,8-dihydroxy-5-methoxyxanthone, 17855
- C₂₅H₂₉NO₄**
Ancistrocladine, 1142
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- C₂₅H₂₉NO₅**
Decodine, 4856
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Methyl 11,12-dimethoxychanofrucosinate, 14319
- C₂₅H₃₀N₂O₈**
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- C₂₅H₃₀O₅**
2,3-Dihydro-7-methoxy-2*S**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadien-6-onyl]-furo[3,2-*c*]coumarin, 5666
Kanzonol Y, 12155
Rhinacanthin C, 18770
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- C₂₅H₃₀O₆**
(+)-3,4-(6'',6''-Dimethyldihydropyrano)-4',5'-[2'''-(1-hydroxy-1-methylethyl)-dihydrofuran]-2',3'''-dihydroxydihydrochalcone, 6337
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- C₂₅H₃₀O₇**
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- C₂₅H₃₀O₈**

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 Robustaol A, 18867
- C₂₅H₃₀O₁₁**
 5-Hydroxycampenoside, 9878
 Yemuoside YM₁, 22884
- C₂₅H₃₀O₁₂**
 Cucurbitoside C, 4332
 6-*p*-Methoxycinnamoyl catalpol, 13887
- C₂₅H₃₀O₁₃**
 Alboside IV, 870
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 Cucurbitoside D, 4333
 Ebractelatinoside B, 6667
 Fraxamoside, 7941
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 Minecoside, 14871
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- C₂₅H₃₀O₁₄**
 Ligustrosidic acid, 12830
- C₂₅H₃₀O₁₅**
 Oleuropeinic acid, 16081
 Tenuiphenone B, 20960
- C₂₅H₃₁NO₁₀**
 Isocimicifugamide, 11331
- C₂₅H₃₁N₃O₂**
 Celacinnine, 3357
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- C₂₅H₃₂CIN₅O₆**
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- C₂₅H₃₂CIN₅O₇**
 Astin E, 1933
- C₂₅H₃₂N₂O₆**
 Vindoline, 22498
- C₂₅H₃₂O₄**
 Artemisolide, 1802
 2,3-Dihydro-7-methoxy-2*R**,3*R**-dimethyl-2-[4,8-dimethyl-3(*E*),7-nonadienyl]-furo[3,2-*c*] coumarin, 5667
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- C₂₅H₃₂O₅**
 3β-Formyloxyresibufogenin, 7912
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 20*R*,21-Epoxyresibufogenin 3-formate, 7190
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 (3*S*,5*S*)-3,5-Diacetoxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptane, 5288
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- C₂₅H₃₂O₉**
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- C₂₅H₃₂O₁₀**
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 Massonianoside A, 13583
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- C₂₅H₃₂O₁₁**
 (2*R*,3*S*)-2,3-Dihydro-7-hydroxy-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-5-benzofuranpropanol 4'-*O*-β-*D*-glucopyranoside, 5634
 (2*S*,3*R*)-2,3-Dihydro-7-hydroxy-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-5-benzofuranpropanol 4'-*O*-β-*D*-glucopyranoside, 5635
 5,4'-Dihydroxy-3-*α*-*L*-rhamnosyl-(1"→3')-β-*D*-xylopyranosyloxybibenzyl, 6108
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 (–)-Isolariciresinol-3*α*-*O*-β-*D*-glucopyranoside, 11480
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- C₂₅H₃₂O₁₂**
 6-*O*-*E*-Feruloylajugol, 7769
 6-*O*-*Z*-Feruloylajugol, 7770
 Gelsemiol 6-*trans*-caffeoyl-1-glucoside, 8259
 (8*E*)-Ligustroside, 12828
 (8*Z*)-Ligustroside, 12829
 6'-*O*-*E*-*p*-Methoxycinnamoylharpagide, 13888
 6'-*O*-*Z*-*p*-Methoxycinnamoylharpagide, 13889
 8-*O*-*E*-*p*-Methoxycinnamoylharpagide, 13890
 8-*O*-*Z*-*p*-Methoxycinnamoylharpagide, 13891
 8-(*O*-Methyl-*p*-coumaroyl)harpagide, 14259
- C₂₅H₃₂O₁₃**
 8-*O*-Feruloylharpagide, 7776
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- C₂₅H₃₂O₁₄**
 (2"*R*)-2"-Hydroxyoleuropein, 10552
 (2"*S*)-2"-Hydroxyoleuropein, 10553
- C₂₅H₃₃Cl₂N₅O₆**
 Astin C, 1931
- C₂₅H₃₃Cl₂N₅O₇**
 Astin A, 1929
 Astin B, 1930
- C₂₅H₃₃NO₃**
 Piperchabamide C, 17442
- C₂₅H₃₃NO₉**
 8,9-Dehydro-10-epi-ryanodine, 4911
- C₂₅H₃₃NO₁₀**
 (13*S*)-8,9-Dehydro-18-hydroxy-10-epi-ryanodine, 4931
 8,9-Dehydro-20-hydroxy-10-epi-ryanodine, 4932
 8,9-Dehydro-21-hydroxy-10-epi-ryanodine, 4933
 6-Deoxy-6β,9β-epoxy-8*α*-hydroxy-10-epi-ryanodine, 5169
 8*α*,9*α*-Epoxy-10-epi-ryanodine, 7091
 8β,9β-Epoxy-10-epi-ryanodine, 7092
 20-Norspiganthine-5-carboxylic acid, 15794
- C₂₅H₃₃NO₁₁**
 (13*S*)-8,9-Dehydro-18,21-dihydroxy-10-epi-ryanodine, 4907
 8,9-Dehydro-20,21-dihydroxy-10-epi-ryanodine, 4908
 (13*S*)-8*α*,9*α*-Epoxy-18-hydroxy-10-epi-ryanodine, 7111
 8*α*,9*α*-Epoxy-20-hydroxy-10-epi-ryanodine, 7112
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- C₂₅H₃₃N₅O₈**
 Asterin A, 1922
- C₂₅H₃₄O₄**
 Lupulone B, 13111
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- C₂₅H₃₄O₅**
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- C₂₅H₃₄O₇**
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- C₂₅H₃₄O₈**
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- C₂₅H₃₄O₉**
 Ailanthinone, 774
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 (3*R*,5*R*)-3,5-Dihydroxy-1,7-bis(4-hydroxyphenyl)heptane 3-*O*- β -*D*-glucopyranoside, 5781
 Kusulactone, 12373
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- C₂₅H₃₄O₁₀**
 Amritoside D, 1087
 (3*R*,5*R*)-3,5-Dihydroxy-1-(3,4-dihydroxyphenyl)-7-(4-hydroxyphenyl)heptane 3-*O*- β -*D*-glucopyranoside, 5816
 (3*R*,5*R*)-3,5-Dihydroxy-1-(3,4-dihydroxyphenyl)-7-(4-hydroxyphenyl)heptane 5-*O*- β -*D*-glucopyranoside, 5817
 (2*E*,6*R*)-2,6-Dimethyl-8-hydroxy-2-octenoic acid 8-*O*-[6'-*O*-(*E*)-*p*-coumaroyl]- β -*D*-glucopyranoside, 6363
 Glaucarubinone, 8509
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- C₂₅H₃₄O₁₁**
 (3*R*,5*R*)-3,5-Dihydroxy-1,7-bis(3,4-dihydroxyphenyl)heptane 3-*O*- β -*D*-glucopyranoside, 5775
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- C₂₅H₃₄O₁₂**
 Lucidumoside A, 13053
- C₂₅H₃₄O₁₃**
 Lucidumoside B, 13054
 6-*O*-(3,4,5-Trimethoxybenzoyl)-ajugol, 21894
- C₂₅H₃₄O₁₄**
 Macrophylloside D, 13324
- C₂₅H₃₅NO**
 1-Methyl-2-[(6*Z*,9*Z*)-6,9-pentadecadienyl]-4(1*H*)-quinolone, 14654
- C₂₅H₃₅NO₃**
 Merresectine C, 13787
- C₂₅H₃₅NO₅**
 Yuzurimine E, 22960
- C₂₅H₃₅NO₈**
 20-Deoxyspiganthine, 5215
- C₂₅H₃₅NO₉**
 Spiganthine, 20162
- C₂₅H₃₅NO₁₀**
 9-Hydroxy-9-epi-10-epi-ryanodine, 10071
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 20-Hydroxyryanodine, 10683
 8 α -Hydroxyspiganthine, 10715
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- C₂₅H₃₅NO₁₁**
 (13*S*)-9,18-Dihydroxy-9-epi-10-epi-ryanodine, 5869
 9,20-Dihydroxy-9-epi-10-epi-ryanodine, 5870
- C₂₅H₃₅N₅O₆**
 Pseudostellarin A, 18064
- C₂₅H₃₆O₂**
 Abridin, 12
- C₂₅H₃₆O₃**
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- C₂₅H₃₆O₄**
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- C₂₅H₃₆O₆**
 16-Acetylgitoxigenin, 400
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ent-15 β -Angeloyloxy-7 α ,9 α -dihydroxy-kaur-16-en-19-oic acid, 1216
 5-Epivibsanan G, 7035
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 14*R**,15-Epoxyvibsanan C, 7219
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 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(2-methylbutyryloxy)-germacran-8,12-olide, 7074
 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(2*R*-methylbutyryloxy)-germacran-8,12-olide, 7075
 2,5-Epoxy-5,10-dihydroxy-6-angeloyloxy-9-(3-methylbutyryloxy)-germacran-8,12-olide, 7076
- C₂₅H₃₆O₁₀**
 10-Acetoxy-1-homovaltrate hydrin, 200
- C₂₅H₃₆O₁₃**
 Dracunculifoside Q, 6596
- C₂₅H₃₇NO**
 1-Methyl-2-[(*Z*)-6-pentadecenyl]-4(1*H*)-quinolone, 14657
 1-Methyl-2-[(*Z*)-9-pentadecenyl]-4(1*H*)-quinolone, 14658
 1-Methyl-2-[(*Z*)-10-pentadecenyl]-4(1*H*)-quinolone, 14659
- C₂₅H₃₈O₄**
 Ardisiphenol C, 1652
 12,25-Dihydroxy-16-scalaren-24,25-olide, 6113
- C₂₅H₃₈O₅**
 2-Acetoxy-5-methoxy-6-methyl-3-[(*Z*-10'-pentadecenyl)-1,4-benzoquinone], 253
- C₂₅H₃₈O₅**
 Caesaldecane, 2860
 2-Methoxy-5-acetoxy-6-methyl-3-[(*z*)-10'-pentadecenyl]-1,4-benzoquinone, 13829
 Vibsanan P, 22451
 Vibsanan S, 22454
- C₂₅H₃₈O₆**
 Erinacine C, 7263
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- C₂₅H₃₈O₇**
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 Trichurusin E, 21582
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- Trichurusin I, 21586
 Vibsandin U, 22456
 Vibsandin W, 22458
C₂₅H₃₈O₈
 Xindongnin G, 22803
C₂₅H₃₈O₁₂
 Eurycomaoside, 7652
C₂₅H₃₈O₁₅
 Phenethylalcohol 8-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 17081
C₂₅H₃₈O₁₆
 Lupulinoside, 13108
 Zizybeoside II, 23012
C₂₅H₃₈O₁₇
 3,4-Dihydroxyphenylethanol-8-*O*-[β -*D*-apiofuranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside, 6078
C₂₅H₃₉NO
 1-Methyl-2-pentadecyl-4(1*H*)-quinolone, 14660
C₂₅H₃₉NO₂
 Buxpiine, 2831
C₂₅H₃₉NO₃
 3(*R*)-Benzoyloxy-2(*R*)-methyl-6(*R*)-(11'-oxododecyl)-piperidine, 2260
C₂₅H₃₉NO₆
 14-Acetylgenicnine B, 396
 Condelphine, 3963
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 Erythrophleguine, 7343
 Erythrosumamine, 7344
C₂₅H₃₉NO₇
 Dehydrodeltatsine, 4899
 Delbrunine, 5000
 Deltamine, 5037
 18-Demethoxypubescenine, 5053
C₂₅H₃₉NO₈
 14-*O*-Acetyltakaosamine, 518
C₂₅H₄₀N₂O₅
 Arboreumine, 1612
C₂₅H₄₀O₄
 2,5-Dihydroxy-3-(nonadec-14-enyl)-benzoquinone, 6048
 16*aH*,17-Isovalerate-*ent*-kauran-19-oic acid, 11753
C₂₅H₄₀O₅
 7*a*,18-Diacetoxy-13 β -methoxyabiet-8(14)-ene, 5313
C₂₅H₄₀O₆
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 Oriediterpenoside, 16185
 Trichurusin B, 21579
C₂₅H₄₀O₁₁
 Eriojaposide B, 7288
C₂₅H₄₀O₁₂
 Zizyvoside I, 23019
C₂₅H₄₁NO₂
 3,5-Didecanoylpyridine, 5462
C₂₅H₄₁NO₆
 Chasmanine, 3483
C₂₅H₄₁NO₇
 Browniine, 2657
 Delsoline, 5035
 Deltatsine, 5038
 Ezochasmanine, 7700
 Lycoctonine, 13189
C₂₅H₄₁NO₈
 Pseudoaconine, 18016
 Swatinine, 20501
C₂₅H₄₂N₂O
 Cyclobuxine D, 4477
C₂₅H₄₂N₂O₇
 Hemsleyatine, 9356
C₂₅H₄₂O₆
 Stemodin- α -*L*-arabinofuranoside, 20300
 Stemodinoside A, 20302
C₂₅H₄₂O₁₂
 Staphylionoside G, 20270
C₂₅H₄₂O₁₇
 Illicifolioside C, 10990
C₂₅H₄₃NO₂
 3-*O*-14,15-Eicosylenoyl-1-cyano-2-methyl-1,2-propene, 6727
C₂₅H₄₄N₂
 Epiheteroconessine, 6931
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N,N,N',N'-Tetramethyl-holarrhimine, 21196
C₂₅H₄₄O₁₂
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C₂₅H₄₄O₁₅
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 Ebracteatoside B, 6664
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C₂₅H₄₄O₁₆
 Illicifolioside B, 10989
C₂₅H₄₆N₂
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N-Methyl pachysamine A, 14650
C₂₅H₄₆N₂O
N,O-Dideacyl-*N*-methylpachysandrine A, 5461
C₂₅H₄₆O₁₂
 Platanionoside D, 17521
C₂₅H₄₇O₁₁S
 1'-*O*-Palmitoyl-3'-*O*-(6-sulfo-*O*- α -*D*-quinoxypyransyl)glycerol, 16568
C₂₅H₄₈O₂
 Pentacosan-4-olide, 16824
C₂₅H₅₀O
 11-Pentacosanone, 16825
C₂₅H₅₀O₂
n-Pentacosanoic acid, 16823
C₂₅H₅₂
 Pentacosane, 16822
C₂₆H₁₈O₇
 Thelephantin I, 21301
C₂₆H₁₉NO₁₂
 Laccaic acid A, 12424
C₂₆H₂₀O₁₀
 Globoidnan A, 8554
 Isosalvianolic acid C, 11694
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C₂₆H₂₂N₂O₄
 Daurioxoisoporphine A, 4689
C₂₆H₂₂O₆
 5-(3''-Benzoyloxypropyl)-7-methoxy-2-(3',4'-methylenedioxyphenyl)-benzofuran, 2264
 Hemerocallin, 9339
C₂₆H₂₂O₉
 3'-Benzoyloxy-5-hydroxy-3,6,7,4'-tetramethoxyflavone, 2259
 Phelligridin F, 17064
C₂₆H₂₂O₁₀
 Salvianolic acid A, 19201
C₂₆H₂₂O₁₈
 Pelargoniin B, 16787
C₂₆H₂₄O₅
 Calophyllolide, 2990
C₂₆H₂₄O₆
 6-Methyltetrapterol A, 14754
C₂₆H₂₄O₇
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 Rocaglamide derivative 7, 18887
C₂₆H₂₄O₁₀
 Curtisian N, 4410
C₂₆H₂₄O₁₁
 Tuberculatins, 22077
C₂₆H₂₄O₁₂
 Boehmerin, 2530
 Justalakomin, 11975
C₂₆H₂₄O₁₄
 4,4'-*O*-Dimethylellagic acid
 3-(2'',3''-di-*O*-acetyl)- α -*L*-rhamnoside, 6346
C₂₆H₂₄O₁₈
 Pelargoniin C, 16788
C₂₆H₂₆N₂

- Caulindole A, 3336
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- C₂₆H₂₆N₂O₁₀**
 20-*O*-β-Glucopyranosyl 18-hydroxycampthecin, 8667
- C₂₆H₂₆O₅**
 Scandione, 19452
- C₂₆H₂₆O₆**
 Artocommunol CE, 1814
 5,4'-Dihydroxy-8-(3,3-dimethylallyl)-2"-methoxyisopropylfuran[4,5:6,7]isoflavone, 5850
 Flemiphilippinin C, 7827
 (+)-(10*S*)-Ligulacephalin C, 12810
 (-)-(10*S*)-Ligulacephalin C, 12811
 Rocaglamide derivative I, 18883
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- C₂₆H₂₆O₇**
 Brousoflavonol A, 2631
 Digoniodiol, 5532
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- C₂₆H₂₆O₈**
 (2*R**,3*S**)-3-Hydroxymethyl-9-methoxy-2-(4'-hydroxy-3',5'-dimethoxyphenyl)-2,3,6,7-tetrahydrophenanthro[4,3-*b*]furan-5,11-diol, 10504
 Interiotherin D, 11106
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- C₂₆H₂₆O₁₁**
 2",6"-*O*-Diacetyloninin, 5343
- C₂₆H₂₆O₁₂**
 3,4-*O*-caffeoylquinic acid methyl ester, 5415
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- C₂₆H₂₆O₁₄**
 Mingjinianuronide B, 14873
- C₂₆H₂₆O₁₈**
 Amritoside, 1083
- C₂₆H₂₇NO₇**
 Squamosamide, 20245
- C₂₆H₂₈N₂O₈**
 (3*R*)-Deoxypumiloside, 5205
- C₂₆H₂₈N₂O₉**
 Naucleoside, 15298
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- Sigmoidin E, 19888
- C₂₆H₂₈O₅**
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 Erypoeigin J, 7316
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 Olibergin B, 16083
- C₂₆H₂₈O₆**
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 5,2'-Dihydroxy-3-methoxy-6,7-(2",2"-dimethylchromene)-8-(3",3"-dimethylallyl)-flavanone, 5972
 Kanzonol K, 12150
 (+)-(10*S*,10'*S*)-Ligulacephalin A, 12806
 (-)-(10*R*,10'*R*)-Ligulacephalin A, 12807
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 Ugonin K, 22184
 Ugonin L, 22185
- C₂₆H₂₈O₇**
 Artocommunol CC, 1812
 Brousoflavonol B, 2632
 Dorsmanin D, 6564
 (+)-(10*R*,10'*R*)-Ligulacephalin B, 12808
 (-)-(10*S*,10'*S*)-Ligulacephalin B, 12809
 5-*O*-Methyl kushenol C, 14545
 5,7,3',4'-Tetrahydroxy-3-methoxy-6-geranylflavone, 21128
 Ugonin H, 22181
- C₂₆H₂₈O₈**
 Jangomolide, 11816
- C₂₆H₂₈O₉**
 Evodol, 7669
 Sudachinoid C, 20450
- C₂₆H₂₈O₁₀**
 Baohuoside II, 2139
 12*α*-Hydroxyevodol, 10118
- C₂₆H₂₈O₁₁**
 Epimesoside C, 6964
 2"-*O*-(2"-Methylbutyryl)vitexin, 14203
 5*α*,6*β*,7*β*,8*α*-Tetraacetoxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydro-chromone, 21030
- C₂₆H₂₈O₁₂**
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- 2"-*O*-(2"-Methylbutyryl)orientin, 14196
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- C₂₆H₂₈O₁₃**
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 8-*C*-Arabinopyranosyl-6-*C*-glucopyranosyl-5,7-dihydroxyflavone, 1569
 Daphneticin-4"-*O*-*α*-*D*-glucopyranoside, 4644
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- C₂₆H₂₈O₁₄**
 Apigenin-4'-*O*-β-*D*-xylofuranosyl(1→4)-*O*-β-*D*-glucopyranoside, 1500
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 6-*C*-Arabinosyl-8-*C*-glucosyl apigenin, 1595
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 Kaempferol-3-*O*-*α*-*L*-rhamnosyl(1→2)-β-*D*-xyloside, 12090
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 5,7,4'-Trihydroxy-6-*C*-glucoside-8-*C*-arabinoside flavone, 21738
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O-*D*-Xylosylvitexin, 22854
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- C₂₆H₂₈O₁₅**
 Artabotryside A, 1777
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 Kaempferol 3-*O*-*α*-arabinopyranosyl(1"→6")-β-glucopyranoside, 12028
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 Quercetin-3-*O*-β-*D*-xylose-(1→4)-*α*-*L*-rhamnoside, 18408
 1,3,6-Trihydroxy-2-hydroxymethyl-9,10-anthraquinone 3-*O*-β-Primeveroside, 21746
- C₂₆H₂₈O₁₆**
 Phlomisflavoside A, 17165
 Quercetin-3-*L*-arabino-7-*D*-glucoside, 18322
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- Quercetin-3-*O*- α -arabinopyranosyl(1^{'''}→6^{''})- β -glucopyranoside, 18327
- C₂₆H₂₉NO₅**
Vertine, 22433
- C₂₆H₂₉O₁₅⁺**
Cyanidin-3-xylosyl-glucoside, 4450
Lycoricyanin' 13240
- C₂₆H₃₀N₂O₈**
Strictosamide, 20390
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- C₂₆H₃₀N₂O₉**
10-Hydroxystictosamide, 10733
Lyalosidic acid, 13168
- C₂₆H₃₀O₄**
Lakoochin A, 12453
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Panduratin A, 16603
Tunicatachalcone, 22110
- C₂₆H₃₀O₅**
Abyssinone V-4'-methyl ether, 55
(5*Ar*,6*R*,9*R*,9*Ar*)-4-Cinnamoyl-3,6-dihydroxy-1-methoxy-6-methyl-9-(1-methylethyl)-5a,6,7,8,9a-hexahydro-dibenzofuran, 3702
Eryzerin B, 7355
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5'-Prenylxanthohumol, 17843
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- C₂₆H₃₀O₆**
Amaradin, 1071
Fuscaxanthone C, 8032
Isokurararinone, 11474
Kurarinidin, 12341
Kurarinone, 12344
Leachianone A, 12595
- C₂₆H₃₀O₇**
1-Hydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-3,6,7-trimethoxy-2-(3-methylbut-2-enyl)-xanthone, 10199
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6-*O*-Methylmangostanin, 14577
Obacunone, 15884
(+)-Pinoselinol-3-hydroxy-4-methyl-4-pentenyl ether, 17417
- C₂₆H₃₀O₈**
Butyrylma llotochromene, 2810
Drummondin A, 6606
Isobutyrylmallotochromene, 11295
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- Obaculactone, 15882
11-Oxo-7 α -obacunol, 16397
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- C₂₆H₃₀O₉**
Egonol glucoside, 6717
Evodinone, 7668
12 α -Hydroxylimonin, 10325
Kihadanin B, 12226
- C₂₆H₃₀O₁₀**
Glaucin A, 8512
Massonianoid A, 13582
(2*R*)-Phellodensin F, 17074
Shihulimonin A, 19801
- C₂₆H₃₀O₁₁**
Balanophonin-4-*O*- β -*D*-glucopyranoside, 2126
Dracunculifoside D, 6583
Phellamurin, 17053
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Simplexoside, 19903
- C₂₆H₃₀O₁₂**
Amurenin, 1091
6- γ , γ -Dimethylallyltaxifolin 7-*O*- β -*D*-glucoside, 6311
Norcariside, 15761
Phellatin, 17057
- C₂₆H₃₀O₁₃**
Angustiamarin, 1243
6-*O*-*E*-*p*-Coumaroyl scandoside methyl ester, 4185
6-*O*-*Z*-*p*-Coumaroyl scandoside methyl ester, 4186
Dunnisiniside, 6640
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Liquiritigenin-7-*O*- β -*D*-apiofuranosyl)-4'-*O*- β -*D*-glucopyranoside, 12910
Liquiritigenin
4'-*O*- β -*D*-apio-*D*-furanosyl(1→2)- β -*D*-glucopyranoside, 12911
(2*S*)-Pinocembrin
7-*O*-[β -*D*-apiosyl(1→2)]- β -*D*-glucoside, 17405
Pinocembrin-7-*O*- α -arabinopyranosyl-(1→2)- β -glucopyranoside, 17406
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- C₂₆H₃₀O₁₄**
Angustioside, 1251
2'-*O*-[β -*D*-Apiofuranosyl(1→2)- β -*D*-glucopyranosyl]isoliquiritigenin, 1511
6-[(α -Apiofuranosyl-(1→6)-*O*- β -*D*-glucopyranosyl)oxy]rubrofusarin], 1514
6'-*O*-*E*-Feruloylmonotropein, 7779
10-*O*-*E*-Feruloylmonotropein, 7780
- C₂₆H₃₀O₁₅**
- Asperuloside tetraacetate, 1893
Polygalaxanthone V, 17633
- C₂₆H₃₀O₁₆**
Vijayosine, 22477
- C₂₆H₃₁NO₅**
Decamine, 4832
Decimine, 4848
Lagerstremine, 12450
Methyl lagerine, 14547
- C₂₆H₃₂N₂O₉**
Isomitraphyllic acid (16→1)- β -*D*-glucopyranosyl ester, 11538
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Strictosidinic acid, 20391
- C₂₆H₃₂O₄**
Nimbocinol, 15603
- C₂₆H₃₂O₅**
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Tecleanin, 20895
- C₂₆H₃₂O₆**
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(\pm)-*trans*-3-(2,4,5-Trimethoxyphenyl)-4-[(*E*)-2,4,5-trimethoxystyryl]-cyclohexene, 21931
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cis-1-(2,4,5-Trimethoxy-*E*-styryl)-2-(2,4,5-trimethoxy-*Z*-styryl)cyclobutane, 21933
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- C₂₆H₃₂O₇**
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- C₂₆H₃₂O₈**
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Kushenol H, 12361
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- C₂₆H₃₂O₉**
Isolimononic acid (16→17)lactone, 11493
Limononic acid A ring lactone, 12848
- C₂₆H₃₂O₁₀**
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5-[3''-(β -*D*-Glucopyranosyloxy)propyl]-7-me-

- thoxy-2-(3',4'-dimethoxyphenyl)benzofuran, 8708
 (2*S*,3*S*)-2-(5-Methoxy-3,4-methylenedioxybenzyl)-3-(4-hydroxy-3,5-dimethoxybenzyl)butane-1,4-diol diacetate, 14009
- C₂₆H₃₂O₁₁**
 Baenzigeroside A, 2099
 Brusatol, 2684
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 (7*R*,8*S*)Dehydrodiconifery alcohol-9'-*O*- β -*D*-glucoside, 4902
 (7*S*,8*R*)Dehydrodiconifery alcohol-4-*O*- β -*D*-glucoside, 4903
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 Matairesinoside, 13595
 (+)-Pinoselinol *O*- β -*D*-glucopyranoside, 17415
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 Saikolignanose D, 19139
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- C₂₆H₃₂O₁₂**
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 Alboside III, 869
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 Nortracheloside, 15809
 Phellavin, 17058
 (7*S*,8*S*)-Syringoylglycerol
 9-*O*-(6'-*O*-cinnamoyl)- β -*D*-glucopyranoside, 20570
- C₂₆H₃₂O₁₃**
 Alboside I, 867
 Cucurbitoside B, 4331
- Dichotomoside A, 5427
 Glehlinoside C, 8547
 Grandifloroside 11-methyl ester, 8978
 2-(4-Hydroxyphenyl)ethyl-1-*O*- β -*D*-[5-*O*-(4-hydroxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 10621
 Lactucaside, 12444
 Resveratrol 3,4'-*O*,*O'*-di- β -*D*-glucopyranoside, 18647
 Tenuiphenone A, 20959
- C₂₆H₃₂O₁₄**
 3,4-Dimethoxyphenyl
 1-*O*- β -*D*-[5-*O*-(4-hydroxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 6286
 Mulberroside A, 15058
 2,3,5,4'-Tetrahydroxystilbene-2-*O*-(6''-*O*- α -*D*-glucopyranosyl)- β -*D*-glucopyranoside, 21156
 2,3,5,4'-Tetrahydroxystilbene-2,3-*O*- β -*D*-diglucoside, 21159
- C₂₆H₃₂O₁₅**
 Seguinose F, 19669
- C₂₆H₃₂O₁₆**
 Leucocyanidin-3-*O*- α -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-arabinopyranoside, 12716
- C₂₆H₃₃ClO₁₀**
 Junceellolide C, 11945
- C₂₆H₃₃ClO₁₂**
 Juncenolide G, 11954
- C₂₆H₃₃NO₇**
 Guan-fu base G, 9047
- C₂₆H₃₄O₄**
 Gerronemin E, 8364
 Kazinol J, 12189
- C₂₆H₃₄O₅**
 Driportlandin, 6604
- C₂₆H₃₄O₆**
 Cinobufagin, 3729
 Samarcandin acetate, 19225
- C₂₆H₃₄O₇**
 Ardisinone B, 1646
 Cinobufaginol, 3731
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 1 α ,8 β -Diacetoxy-9 β -benzoyloxydihydro- β -agarofuran, 5286
 Forrestin G, 7921
 Hellebrigenin 3-acetate, 9329
 6 α -Hydroxycinobufagin, 9917
 12 β -Hydroxycinobufagin, 9918
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- C₂₆H₃₄O₈**
 Agrimophol, 762
 Caesalmin C, 2865
- 12 β -Hydroxycillirosidin, 10693
 Nigakilactone G, 15552
 Saroaspidin C, 19384
- C₂₆H₃₄O₉**
 Acetylexidinonin, 393
 Adenanthin, 605
 Bryophyllin B, 2690
 Crocetin mono(β -*D*-glucosyl) ester, 4247
 3,5-Diacetoxy-1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hydroxy-3-methoxyphenyl)heptane, 5302
 Glabcensin Q, 8478
 Leucophyllin A, 12719
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 Rabdoepigibberellolide, 18460
 Shikokianal acetate, 19813
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 Sudachinoid A, 20448
 11-*O*- β -*D*-Xylopyranosylmyricanol, 22837
- C₂₆H₃₄O₁₀**
 Aviculin, 2040
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 2,3-Dihydrobenzofuran-2-(4'-hydroxy-3'-methoxyphenyl)-3- α -*L*-rhamnopyranosyloxymethyl-7-methoxy-5-propanol, 5547
 2',3'-Dihydroxy-1'-propoxypseudolarate B, 6104
 16,17-Epoxyshikokianal acetate, 7202
 (+)-Isolariciresinol-9'-*O*- α -*L*-rhamnoside, 11482
 Massonianoside C, 13585
 Massonianoside D, 13586
 1 α ,8 β ,14-Triacetoxy-9 β -furoyloxydihydro- β -agarofuran, 21522
- C₂₆H₃₄O₁₁**
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 Dihydrodehydrodiconifery alcohol 4'-*O*- β -*D*-glucoside, 5583
 (-)-Isolariciresinol-4-*O*- β -*D*-glucopyranoside, 11481
 (+)-1-Lariciresinol-4'- β -*D*-glucopyranoside, 12522
 (+)-Lariciresinol-4- β -*D*-glucopyranoside, 12523
 Lariciresinol-9-*O*- β -*D*-glucoside, 12525
 (-)-5'-Methoxyisolariciresinol-2 α -*O*- β -*D*-xylopyranoside, 13977
 Neoglabrescin B triacetate, 15399
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- C₂₆H₃₄O₁₂**
 Berchemol-4'-*O*- β -*D*-glucoside, 2305
 Citrusin A, 3775
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 7*R*,7'*R*,8*S*,8'*S*-(+)-Neo-olivil-4-*O*- β -*D*-glucopyra-

- noside, 15441
 Neoolivil-4-*O*- β -*D*-glucoside, 15442
 (-)-Olivil-4"-*O*- β -*D*-glucopyranoside, 16090
 (-)-Olivil-4'-*O*- β -*D*-glucopyranoside, 16091
 Sinenoside, 19926
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- C₂₆H₃₄O₁₃**
 Juncin Q, 11957
 (-)-Massoniresinol 4'-*O*- β -*D*-glucopyranoside, 13589
 (-)-Massoniresinol 4"-*O*- β -*D*-glucopyranoside, 13590
 Osthenol-7-*O*- β -gentiobioside, 16258
- C₂₆H₃₄O₁₄**
 Pyrolaside A, 18268
- C₂₆H₃₅NO₄**
 Lythranidine, 13279
- C₂₆H₃₅NO₆**
 Guan-fu base F, 9046
 Spiramide, 20193
- C₂₆H₃₅N₅O₈**
 Asterin B, 1923
- C₂₆H₃₆NO₁₁**
L-Phenylalaninosecologanin, 17094
- C₂₆H₃₆O₄**
 Gerronemin D, 8363
 4-Hydroxy-2,6-dimethyl-6-(3,7-dimethyl-2,6-octadienyl)-8-(3-methyl-2-butenyl)-2*H*-1-benzopyran-5,7(3*H*,6*H*)-dione, 10049
 5-Hydroxy-2,8-dimethyl-6-(3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)-2*H*-1-benzopyran-4,7(3*H*,8*H*)-dione, 10051
 Lupulone A, 13110
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- C₂₆H₃₆O₆**
 Bufotalin, 2722
 15-*O*-Methyl-18-oxoneovibsanin F, 14648
- C₂₆H₃₆O₇**
 5 β -Hydroxybufotalin, 9861
 9 α -Hydroxy-2 α ,10 β ,13 α -triacetoxytaxa-4(20),5(6),11(12)-triene, 10781
 (2*R**,3*S**,4*R**,5*R**,9*S**,11*S**,15*R**)-3,5,15-Triacetoxy-14-oxolathyra-6(17),12*E*-diene, 21530
- C₂₆H₃₆O₈**
 Adenanthin C, 607
 Casearinone A, 3272
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 Dawoensin A, 4701
 3 β ,6 β -Diangeloyloxy-10 α -hydroxy-8 α -methoxyremophilenolide, 5356
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- Isodoternifolin A, 11400
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 Taxuspinanane K, 20848
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- C₂₆H₃₆O₉**
 4-Acetoxy-2,3-bis(3,4,5-trimethoxybenzyl)-1-butanol, 136
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 2-Deacetyltaxine B, 4781
 14-Deoxo-14-*O*-acetylorthosiphol Y, 5137
 Glabcensin C, 8464
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 Taxezopidine A, 20780
 Taxinine A 11,12-epoxide, 20799
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 (3*E*,7*E*)-2 α ,10 β ,13 α -Triacetoxy-5 α ,20-dihydroxy-3,8-seco-taxa-3,7,11-trien-9-one, 21516
 Weisiensin A, 22657
- C₂₆H₃₆O₁₀**
 Ajugalide A, 795
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 (3*R*,5*R*)-3,5-Dihydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)heptane 3-*O*- β -*D*-glucopyranoside, 5913
 Nortrilobolide, 15811
 Taxumairol J, 20830
 Taxuspine O, 20862
- C₂₆H₃₆O₁₁**
 2 α -Deacetyl-5 α -decinnamoyltaxagifine, 4736
 (3*R*,5*R*)-3,5-Dihydroxy-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxyphenyl)heptane 3-*O*- β -*D*-glucopyranoside, 5912
 Javanicolide C, 11853
 (-)-Secoisolariciresinol
 4-*O*- β -*D*-glucopyranoside, 19619
- C₂₆H₃₆O₁₂**
 10-Acetoxy-1-acevaltrate hydrin, 121
 Foliamenthin, 7851
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 Tamariscinoside B, 20654
 7,9,9'-Trihydroxy-3,3'-dimethoxy-8-*O*-4'-neolignan-4-*O*- β -*D*-glucopyranoside, 21714
- C₂₆H₃₆O₁₃**
 Amritoside A, 1084
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- C₂₆H₃₆O₁₄**
 Eurycomanol-2-*O*- β -glucopyranoside, 7651
- C₂₆H₃₆O₁₅**
 Seguinolide K, 19674
- C₂₆H₃₇NO₃**
 Brachystamide C, 2575
- C₂₆H₃₇NO₈**
 (-)-(trans-3'-Methoxy-4'- α -*L*-rhamnosyloxy cinnamoyl)epilupinine, 14084
- C₂₆H₃₇N₃O₄**
 Discarine M, 6505
- C₂₆H₃₈O₃**
 Papuaforin B, 16630
- C₂₆H₃₈O₄**
 Gerronemin C, 8362
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- C₂₆H₃₈O₅**
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- C₂₆H₃₈O₆**
 Methyl *ent*-7 α ,9 α -dihydroxy-15 β -[(2*Z*)-2-methyl-but-2-enyloxy]kaur-16-en-19-oate, 14394
 18-*O*-Methylvibsanin G, 14807
- C₂₆H₃₈O₇**
 10-Deacetyltaxuyunnanin C, 4788
 2 α -Hydroxy-5 α ,10 β ,14 β -triacetoxytaxa-4(20),11-diene, 10779
 Hydroxytriacetoxytaxadiene, 10780

- 18-*O*-Methyl-5-*epi*-vibsanin K, 14404
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- C₂₆H₃₈O₈**
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 2-Deacetyldecinnamoyltaxinine E, 4737
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 3-Methyl-1-{2-[(1*R**,2*S**,5*R**,6*R**)-2,5,6-tri(acetyloxy)-4-methyl-3-cyclohexenyl]-propyl}-2-butenyl (*Z*)-2-methyl-2-butenolate, 14767
 Xindongnin D, 22800
- C₂₆H₃₈O₉**
 Baiyecrystal C, 2118
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 Forrestin C, 7917
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 Glabcensin L, 8473
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 β-*D*-Glucopyranosyl-8(17),13-*ent*-labdadien-16,15-olid-18-oate, 8680
 Phlogacanthoside A, 17161
 Taxane 2, 20749
 Taxawallin F, 20755
 Taxawallin G, 20756
 Taxawallin H, 20757
 7β,9α,10β-Triacetoxo-2α,5α,13α-trihydroxy-4(20),11-taxadiene, 21532
- C₂₆H₃₈O₁₀**
 10-Debenzoyl-2α-acetoxo-brevifoliol, 4801
 Taxezopidine B, 20781
 5α,7β,10β,13α-Tetrahydroxy-2α,9α,15-triacetoxo-11(15→1)-abeo-taxa-4(20),11-diene, 21161
- C₂₆H₃₈O₁₁**
 1-Hydroxy-2,7,9-trideacetylaccatin I, 10782
 Tasumatrol B, 20719
 Taxumairol Y, 20838
- C₂₆H₃₈O₁₂**
 Agnucastoside A, 750
 Dihydrofoliamenthin, 5615
 Jasnudifloside I, 11829
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 Pratialin A, 17766
- C₂₆H₃₈O₁₃**
 Casteloside B, 3299
 Iandonoside A, 10935
 Lobetyolinin, 12943
- C₂₆H₃₈O₁₄**
 Bruceine E 2-β-*D*-glucopyranoside, 2669
- Iandonoside B, 10936
- C₂₆H₃₉NO₆**
 8-Acetyldolacoinine, 384
- C₂₆H₃₉NO₈**
 3β-Acetyloxynorerythrosumine, 265
- C₂₆H₄₀O₄**
 2-*n*-Pentadecyl-5,7-dihydroxy-6,8-dimethylchromone, 16834
- C₂₆H₄₀O₅**
 Vibsanin Q, 22452
- C₂₆H₄₀O₆**
 Siegesetheric acid I, 19878
- C₂₆H₄₀O₆**
 Taxuyunnanin I, 20881
- C₂₆H₄₀O₈**
 3,4-Dihydro-excelsin, 5612
- C₂₆H₄₀O₈**
 18-β-*D*-Glucopyranosyloxy-8(17),13-*ent*-labdadien-16,15-olide, 8700
- C₂₆H₄₀O₈**
 Neoandrographolide, 15337
- C₂₆H₄₀O₈**
 Pierisformoside F, 17357
- C₂₆H₄₀O₉**
 Cussoracoside E, 4427
- C₂₆H₄₀O₉**
 Melissoidesin D, 13691
- C₂₆H₄₀O₉**
 Pierisformoside D, 17355
- C₂₆H₄₀O₉**
 Pierisformoside E, 17356
- C₂₆H₄₀O₁₀**
 Andrographiside, 1158
 (3*S*)-3-*O*-(3',4'-Diangeloyl-β-*D*-glucopyranosyloxy)-6-hydroperoxy-3,7-dimethylocta-1,7-diene, 5354
 (3*S*)-3-*O*-(3',4'-Diangeloyl-β-*D*-glucopyranosyloxy)-7-hydroperoxy-3,7-dimethylocta-1,5-diene, 5355
 Isodoforrestin, 11383
 Shikokiaside B, 19818
- C₂₆H₄₀O₁₁**
 Parvifoliside, 16687
 Rabdoside 1, 18494
 Shikokiaside A, 19817
 Taxuyunnanin Q, 20884
- C₂₆H₄₀O₁₂**
 Agnucastoside B, 751
 Rabdoside 2, 18495
- C₂₆H₄₀O₁₅**
 LiguobustosideM, 12822
- C₂₆H₄₁NO**
 Buxbodine C, 2820
- C₂₆H₄₁NO₂**
 Buxbodine B, 2819
- C₂₆H₄₁NO₇**
 Akirane, 821
 Bullatine C, 2739
 Delbruline, 4999
 Delcorine, 5003
- C₂₆H₄₁NO₈**
 Pubescenine, 18174
- C₂₆H₄₂O₄**
 Aculeatin D, 589
 Maesaquinone, 13350
 Pallason C, 16544
- C₂₆H₄₂O₆**
 Acetylcholic acid, 350
- C₂₆H₄₂O₇**
 4,5,6-Tri-*O*-acetyl hygrophorone B¹⁴, 21536
- C₂₆H₄₂O₈**
ent-2-*Oxo*-15,16-dihydroxypimar-8(14)-*en*-16-*O*-β-glucopyranoside, 16320
 Pierisformoside B, 17353
 Pterokaurane P₁-2-*O*-β-*D*-glucoside, 18108
- C₂₆H₄₂O₉**
 Cussoracoside A, 4423
 Isodopharicin F, 11399
ent-2-*Oxo*-3β,15,16-trihydroxypimar-8(14)-*en*-3-*O*-β-glucopyranoside, 16436
 Pubeside C, 18177
 Pubeside D, 18178
 Rhodomoside A, 18812
 Sumogaside, 20486
- C₂₆H₄₂O₁₀**
 Rhodomoside B, 18813
- C₂₆H₄₃NO₆**
 6,14-Dimethoxyforesticine, 6227
 Glycocholic acid, 8823
- C₂₆H₄₃NO₇**
 Delphatine, 5008
 8-Methyllycoctonine, 14570
- C₂₆H₄₃NO₈**
 18-*O*-Methyldeleterine, 14286
 8-Methyl-10-hydroxylycoctonine, 14513
- C₂₆H₄₄NNaO₇S**
 Sodium taurophythocholate, 20038
- C₂₆H₄₄N₂**
 Buxamine E, 2816
 Buxbodine E, 2822
- C₂₆H₄₄N₂O**
 Buxaminol E, 2817
 Saraccine, 19354
- C₂₆H₄₄O₄**
 Irisoquin C, 11175
 Surinone C, 20495

- C₂₆H₄₄O₆**
Dresigenin B, 6600
- C₂₆H₄₄O₇**
Stemodinoside B, 20303
- C₂₆H₄₄O₈**
Darutoside, 4662
Pubeside A, 18175
Pubeside B, 18176
Salvigreside A, 19212
Siegesbeckioside, 19877
1 β ,16 α ,17-Trihydroxy-*ent*-kaur-17-*O*- β -*D*-glucopyranoside, 21758
- C₂₆H₄₄O₉**
ent-2 β ,15,16,19-Tetrahydroxypimar-8(14)-*en*-19-*O*- β -glucopyranoside, 21150
- C₂₆H₄₄O₁₀**
2,6-Diacetyl-3,4-diisobutyryl-1-*O*-octylglucopyranoside, 5332
Eriocaside A, 7275
- C₂₆H₄₅N**
Buxbodine A, 2818
- C₂₆H₄₅NO₆S**
Taurochenodeoxycholic acid, 20733
Tauroursodeoxycholic acid, 20735
- C₂₆H₄₅NO₇S**
Taurocholic acid, 20734
- C₂₆H₄₆N₂O**
Cyclovirobuxine D, 4544
Epipachysamine A, 6989
Epipachysamine All, 6990
Saracodine, 19355
- C₂₆H₄₆N₂O₂₂**
Neocycasin D, 15383
- C₂₆H₄₆O₅**
Ranol, 18544
- C₂₆H₅₀O₂**
Hexacosan-4-olide, 9480
5-Hydroxy-hexacos-1-*en*-3-*one*, 10159
- C₂₆H₅₂O₂**
Cerotic acid, 3434
- C₂₆H₅₄**
n-Hexacosane, 9479
- C₂₆H₅₄N₄O**
Budmunchiamine L₄, 2700
- C₂₆H₅₄O**
Ceryl alcohol, 3435
- C₂₇H₁₂O₁₈**
Isocorilagin, 11342
- C₂₇H₂₀MgO₁₂**
Magnesium lithospermate, 13369
- C₂₇H₂₀O₆**
Microphyllaquinone, 14843
- C₂₇H₂₀O₇**
Mulberrofuran R, 15052
- C₂₇H₂₀O₁₂**
Sagecoumarin, 19123
- C₂₇H₂₀O₁₇**
Phyllanemblinin A, 17208
- C₂₇H₂₂N₄O₃**
1-(β -Carbolin-1-yl)-3-(4,8-dimethoxy- β -carbolin-1-yl)propan-1-*one*, 3161
- C₂₇H₂₂O₁₂**
Lithospermic acid, 12925
Melitric acid A, 13709
- C₂₇H₂₂O₁₅**
Quercetin-3-*O*- α -arabinopyranoside-2"-gallate, 18323
- C₂₇H₂₂O₁₆**
(-)-2,3-Digalloyl-4-(*E*)-caffeoyl-*L*-threonic acid, 5513
- C₂₇H₂₂O₁₈**
Corilagin, 4055
Helioscopinin B, 9310
Phyllanemblinin B, 17209
Punicacortein A, 18200
Punicacortein B, 18201
Sanguiin H₄, 19276
Sanguiin H₅, 19277
Strictinin, 20389
- C₂₇H₂₂O₁₉**
Furosin, 8030
- C₂₇H₂₃O₁₆**
5-Carboxypyranocyanidin-3-*O*-(6"-*O*-malonyl- β -glucopyranoside), 3183
- C₂₇H₂₄N₂O₃**
Melicobisquinolinone B, 13677
- C₂₇H₂₄N₂O₅**
Tyraminoporphine, 22159
- C₂₇H₂₄O₅**
Vismiagianone D, 22548
Vismiagianone E, 22549
- C₂₇H₂₄O₇**
Rhinacanthin N, 18777
- C₂₇H₂₄O₁₈**
1,2,3-Tri-*O*-galloyl- β -*D*-glucose, 21641
1,2,6-Tri-*O*-galloyl- β -*D*-glucose, 21642
1,3,6-Trigalloyl- β -*D*-glucose, 21643
- C₂₇H₂₄O₁₉**
Amlaic acid, 1065
Chebulanin, 3491
- C₂₇H₂₆O₇**
Bletilol B, 2516
Bletilol C, 2517
- C₂₇H₂₆O₈**
Rocagloic acid, 18892
- C₂₇H₂₆O₉**
Artabotrycinol, 1776
Isoamericanol B₁, 11212
Isoamericanol B₂, 11213
Isoamericanol C₁, 11214
Isoamericanol C₂, 11215
Isoprincepin, 11612
Princepin, 17860
- C₂₇H₂₆O₁₀**
Benzoylsalireposide, 2270
Piceid 2'-*O*-*p*-hydroxybenzoate, 17286
Symplososide, 20547
- C₂₇H₂₆O₁₁**
Symponoside, 20549
Torreyaflavonoid, 21463
- C₂₇H₂₆O₁₂**
Cleistanthin B, 3817
Piceid-2"-*O*-gallate, 17285
Resveratrol-4'-*O*-(6"-*O*-galloyl)- β -*D*-glucopyranoside, 18648
Symplocoside, 20528
- C₂₇H₂₆O₁₃**
(+)-Galocatechin-hexacetate, 8102
Kaempferol-3-*O*-(2,3,4-tri-*O*-acetyl- α -*L*-rhamnopyranoside), 12099
Piceatannol 3'-*O*- β -*D*-(6"-*O*-galloyl)glucopyranoside, 17279
Piceatannol
4'-*O*-(6"-*O*-galloyl) β -*D*-glucopyranoside, 17280
(*E*)-3,5,3',4'-Tetrahydroxystilbene 3-*O*- β -*D*-(6"-galloyl)glucopyranoside, 21155
- C₂₇H₂₆O₁₇**
Apigenin-7-*O*-diglucuronide, 1489
- C₂₇H₂₆O₁₈**
Isochesnatin, 11325
Luteolin-7-*O*-diglucuronide, 13142
Scutellarein-7-*O*-diglucuronide, 19583
- C₂₇H₂₆O₁₉**
Quercetin-3,7-diglucuronide, 18347
- C₂₇H₂₆O₂₀**
Phyllanemblinin D, 17211
Phyllanemblinin E, 17212
Phyllanemblinin F, 17213
- C₂₇H₂₈N₂O₄**
Anomalamide, 1345
Patriscabratine, 16724
Trichosanatine, 21575
- C₂₇H₂₈N₂O₁₁**
Desoxycordifolinic acid, 5273
- C₂₇H₂₈O₇**
Lespedezol A₅, 12686
- C₂₇H₂₈O₉**
Angeloylpodophyllotoxin, 1232

- Steganagin, 20285
- C₂₇H₂₈O₁₀**
Acuminatin II*, 593
- C₂₇H₂₈O₁₁**
Cochinchiside A, 3874
Tremulacin, 21508
- C₂₇H₂₈O₁₂**
Cochinchiside B, 3875
Hirsutissimide A, 9554
1-*O*-Methyl-3,5-*O*-dicaffeoyl quinic acid methyl ester, 14292
- C₂₇H₂₈O₁₃**
3-*O*-Caffeoyl-4-*O*-sinapoylquinic acid, 2925
Cassiaoccidentalinalin A, 3281
- C₂₇H₂₈O₁₄**
Cassiaoccidentalinalin B, 3282
- C₂₇H₂₈O₁₅**
1,3-Dihydroxy-2-carbomethoxy-9,10-anthraquinone 3-*O*- β -primeveroside, 5785
3',5'-*O*-Dimethylmyricetin
3-*O*- β -*D*-2'',3''-diacetylglucopyranoside, 6377
Yopaaoside A, 22926
- C₂₇H₂₈O₁₆**
Kaempferol 3-*O*-(2''- α -rhamnopyranosyl)- β -glucuronopyranoside, 12078
Rhein diglucoside, 18760
- C₂₇H₂₈O₁₇**
Quercetin-3-*O*-(2''-*O*-rhamnopyranosyl)- β -glucuronopyranoside, 18330
- C₂₇H₂₈O₁₈**
Nelumboside, 15325
Quercetin-7-*O*-glucuronoglucoside, 18372
- C₂₇H₂₉NO₆**
(+)-Plicamine, 17560
(-)-Secoplicamine, 19633
- C₂₇H₂₉NO₁₃**
Cartormin, 3226
- C₂₇H₃₀N₂O₁₀**
3 α ,3 β -Carboxyvincoside lactam, 3186
- C₂₇H₃₀O₄**
Isovouacapenol D, 11779
- C₂₇H₃₀O₆**
Parvifloron E, 16680
Parvifloron F, 16681
Plectranthol A, 17553
- C₂₇H₃₀O₇**
Nimbolide, 15604
- C₂₇H₃₀O₈**
Angeloylgomisins R, 1210
Daphnetoxin, 4649
Heteroclitin D, 9463
Interiorin A, 11099
Interiorin B, 11100
- Schiarisanrin E, 19465
- C₂₇H₃₀O₉**
Heteroclitin E, 9464
Interiorin B, 11104
Schisantherin L, 19493
- C₂₇H₃₀O₁₀**
Baohuoside I, 2138
5,3'-Dibutanoyloxy-3,6,7,4'-tetramethoxyflavone, 5401
Heteroclitin F, 9465
- C₂₇H₃₀O₁₁**
Icariside I, 10955
2''-*O*-(2'''-Methylbutyryl)isowertisin, 14193
3''-*O*-(2'''-Methylbutyryl)isowertisin, 14194
Neocariin, 15410
Tremulacinol, 21509
Wushanicariin, 22740
- C₂₇H₃₀O₁₂**
4'-Demethyl-desoxy-podophyllotoxin-4-*O*- β -*D*-glucoside, 5075
- C₂₇H₃₀O₁₃**
4-Demethylepipodophyllotoxin 7'-*O*- β -*D*-glucopyranoside, 5078
4-Demethyl-picropodophyllotoxin 7'-*O*- β -*D*-glucopyranoside, 5092
4-Demethyl-podophyllotoxin 7'-*O*- β -*D*-glucopyranoside, 5094
Formononetin-7-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 7884
Glycyroside, 8840
Kushenol O, 12368
 α -Peltatin glucoside, 16795
Rhamnellaflavoside A, 18676
Rhamnellaflavoside B, 18677
Rhamnellaflavoside C, 18678
- C₂₇H₃₀O₁₄**
Apigenin-7-*O*-neohesperidoside, 1497
Apigenin-7-*O*-rutinoside, 1499
Camellianin A, 3038
Chrysophanol-1- β -gentiobioside, 3617
Chrysophanol-8-*O*-gentiobioside, 3618
Daidzein 4',7-diglucoside, 4605
6,8-Di-*C*- β -glucosylchrysin, 5531
6,4'-Dihydroxy aurone 4-*O*-rutinoside, 5761
Dulcinoside, 6623
Isoviolanthin, 11772
Kaempferitrin, 12018
2-Methyl-1,3,6-trihydroxyanthraquinone
3-*O*- α -*L*-rhamnosyl-(1 \rightarrow 2)- β -*D*-glucoside, 14778
Ophiohayatone B, 16133
Puerarin-4'-*O*-*D*-glucoside, 18181
7-*O*- α -Rhamno(1 \rightarrow 6)- β -glucosylgenistein, 18685
- 2''-*O*- α -*L*-Rhamnopyranosylisovitexin, 18729
Sophorabioside, 20080
4',6,7-Trihydroxyisoflavone-6-methylether-7-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 21751
Violanthin, 22519
- C₂₇H₃₀O₁₅**
Aloeemodin diglucoside, 969
Apigenin-7-*O*-gentiobioside, 1490
6,8-Bis(*C*- β -glucosyl)-apigenin, 2455
Chrysoeriol-7-apio-glucoside, 3604
2''-*O*- β -*L*-Galactopyranosylvitexin, 8072
Genistein 7-*O*- β -*D*-glucopyranoside-4'-*O*- β -*D*-glucopyranoside, 8279
Isorhamnetin-3-arabino-7-rhamnoside, 11651
Isosaponarin, 11695
Kaempferide-3-*O*- β -xylosyl (1 \rightarrow 2)- β -glucoside, 12017
Kaempferol 3-*O*- β -*D*-glucopyranosyl-(1-2)- α -*L*-rhamnopyranoside, 12053
Kaempferol-3- β -*D*-gluco-7- α -*L*-rhamnoside, 12060
Kaempferol-3- β -*D*-gluco-7- β -*L*-rhamnoside, 12061
Kaempferol-3-*O*-neohesperidoside, 12071
Kaempferol 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-galactopyranoside, 12074
Lonicerin, 12987
Luteolin-7-rutinoside, 13149
Multiflorin B, 15069
Nicotiflorin, 15525
Oroxin B, 16215
Palustroside‡, 16578
Quercetin-3,4'-di-*O*- α -*L*-rhamnopyranoside, 18350
Quercetin-3,7- α -*L*-dirhamnoside, 18352
Rheinoside C, 18764
Rheinoside D, 18765
Safflower yellow A, 19111
Saponarin, 19331
Scutellarein-7-rutinoside, 19585
Tectorigenin-7-*O*-[β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside], 20902
4',5,7-Trihydroxy-6-methoxyisoflavone 7-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 21781
Vitexin-7-glucoside, 22582
Yuankanin, 22935
- C₂₇H₃₀O₁₆**
Bioquercetin, 2394
Equisetrin, 7222
2''-*O*- β -*L*-Galactopyranosylorientin, 8066

- Isorhamnetin-3-arabinoglucoside, 11650
 Kaempferol-3,7-diglucoside, 12043
 Kaempferol 7-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranoside, 12052
 Luteolin-7-*O*-digalactoside, 13140
 Luteolin-6,8-*C*-diglucoside, 13141
 Luteolin-7-*O*-gentiobioside, 13144
 Multinoside A, 15072
 Neoisorutin, 15416
 Panasenoid, 16587
 Quercetin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-rhamnopyranoside, 18365
 Quercetin-3- β -*D*-gluco-7- α -*L*-rhamnoside, 18367
 Quercetin-3-*O*-neohesperidoside, 18378
 Quercetin-3-rhamnoside-7-glucoside, 18387
 Quercetin-3-robinobioside, 18390
 Rheinoid A, 18762
 Rheinoid B, 18763
 Rutin, 19087
 Sophoraflavonoloid, 20088
- C₂₇H₃₀O₁₇**
 Heliosin, 9315
 6-Hydroxyluteolin-7-diglucoside, 10353
 Myricetin-3-rutinoside, 15185
 Quercetin-3,5-di-*D*-galactoside, 18338
 Quercetin-5,4'-di-*O*- β -*D*-glucopyranoside, 18341
 Quercetin-3-diglucoside, 18342
 Quercetin-3,4'-diglucoside, 18343
 Quercetin-3,5-diglucoside, 18344
 Quercetin-3,7-diglucoside, 18345
 Quercetin-7,4'-diglucoside, 18346
 Quercetin-3-*O*- β -*D*-galactoside-7-*O*- β -glucoside, 18357
 Quercetin-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside], 18362
 Quercetin-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside], 18363
 Quercetin-7-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 18364
- C₂₇H₃₁NO₄**
 Erinacerin A, 7259
 Hericenone B, 9430
- C₂₇H₃₁NO₅**
 Ignavine, 10962
- C₂₇H₃₁N₂O₉⁺**
 3,4,5,6-Tetrahydrocalicoside, 21050
- C₂₇H₃₁O₁₅⁺**
 Cyanidin-3-rutinoside, 4446
 Pelargonidin-3,5-diglucoside, 16781
- C₂₇H₃₁O₁₆⁺**
 Cyanidin-3,4'-di-*O*- β -glucopyranoside, 4438
 Cyanidin-3-gentiobioside, 4441
 Cyanin, 4451
- C₂₇H₃₁O₁₇⁺**
 Delphin, 5010
 Delphinidin-3-diglucoside, 5020
- C₂₇H₃₂N₂O₁₀**
 Cadambine, 2844
- C₂₇H₃₂O₄**
 Bitucarpin A, 2495
 Isovouacapenol A, 11777
- C₂₇H₃₂O₅**
 12-Benzoyloxycrotohalimanic acid, 2251
- C₂₇H₃₂O₆**
 Kushenol D, 12357
 2'-Methoxykurarinone, 13985
- C₂₇H₃₂O₇**
 Kadsutherin, 12014
- C₂₇H₃₂O₈**
 Atalantolide, 1957
 PC-1999-52-1525-6, 16737
- C₂₇H₃₂O₉**
 Atalantin, 1955
 Orbiculon D, 16163
- C₂₇H₃₂O₁₀**
 Spicatin, 20160
- C₂₇H₃₂O₁₁**
 Hemislienoid, 9352
 Hymenoside A, 10844
 Hymenoside J, 10853
- C₂₇H₃₂O₁₂**
 Hymenoside C, 10846
 Hymenoside D, 10847
- C₂₇H₃₂O₁₃**
 Cascarioside C, 3255
 Cascarioside D, 3256
 10*R*-Chrysaloin 1-*O*- β -*D*-glucopyranoside, 3590
 Dracunculifoside H, 6587
 Hymenoside B, 10845
 Hymenoside E, 10848
 6-*O*-*Z*-*p*-Methoxycinnamoyl scandoside methyl ester, 13894
 5-*O*-*p*-Methoxy cinnamoyl scandoside methyl ester, 13895
 Naringenin-7-*O*- α -*L*-rhamnosyl(1 \rightarrow 4)-rhamnoside, 15284
 Onychin, 16122
- C₂₇H₃₂O₁₄**
 Cascarioside A, 3254
 Glyptoside A, 8851
 10-Hydroxycascarioside C, 9898
 10-Hydroxycascarioside D, 9899
 Kushenol J, 12363
 Liquiritigenin-7,4'-diglucoside, 12912
 Naringin, 15286
 Narirutin, 15287
- Nobiletin-3-*O*- β -*D*-glucoside, 15636
- C₂₇H₃₂O₁₅**
 Butrin, 2786
 Chalcononaringenin 2',4'-di-*O*- β -*D*-glucoside, 3455
 9-[(β -*D*-Glucopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl)oxy]-10-hydroxy-7-methoxy-3-methyl-1*H*-naphthol[2,3-*c*]pyran-1-one, 8649
 Neoricocitrin, 15393
 Polygalaxanthone IV, 17632
 Robustaside C, 18879
 Rubrofusarin-6- β -gentiobioside, 19042
 Veratriloside D, 22388
 Viscumneoside I, 22536
 Viscumneoside III, 22538
- C₂₇H₃₂O₁₆**
 (2*R*)-Eriodictyol-7,4'-di-*O*- β -*D*-glucopyranoside, 7280
 1-*O*-Gentiobiosyl-3,7-dimethoxy-8-hydroxy-xanthone, 8301
 Polygalaxanthone VII, 17635
 Safflomin A, 19110
 Suffruticoside A, 20451
 Suffruticoside B, 20452
 Suffruticoside C, 20453
 Suffruticoside D, 20454
- C₂₇H₃₂O₁₇**
 Eriodictyol-7,3-diglucoside, 7281
- C₂₇H₃₃NO₃**
 Hericerin, 9437
- C₂₇H₃₃NO₁₁**
 Colchicoside, 3912
- C₂₇H₃₃N₂O₉⁺**
 3,4-Dehydrocalicoside, 4958
- C₂₇H₃₄N₂O₄**
 Pleiocarpine, 17556
- C₂₇H₃₄N₂O₉**
 Glabratine, 8488
 Palicoside, 16541
- C₂₇H₃₄N₂O₁₀**
 3 α -Dihydrocadambine, 5550
 3 β -Isodihydrocadambine, 11377
- C₂₇H₃₄O₅**
 6 β -Benzoyl-7 β -hydroxyvouacapen-5 α -ol, 2244
 4-Episopadulcic acid B, 7016
 Isovouacapenol B, 11778
 Licorisoflavan A, 12795
- C₂₇H₃₄O₆**
 Anticancer Norwithanolide PMV70P691-029, 1427
 Jolkinol A', 11891
- C₂₇H₃₄O₇**
 Anticancer Norwithanolide PMV70P691-030,

- 1428
[(2*S*,3*R*,4*R*)-4-(3,4-Dimethoxybenzyl)-2-(3,4-dimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate, 6211
Lucidenic acid D₁, 13026
Neokurarinol, 15425
- C₂₇H₃₄O₈**
Deacetylsecmahoganin, 4772
Kleinioxanthrone 4, 12236
(+)-4-(3-Methylbutanoyl)-2,6-di(3,4-dimethoxy)phenyl-3,7-dioxabicyclo[3.3.0]octane, 14165
- C₂₇H₃₄O₉**
Anticancer Norwithanolide PMV70P691-035, 1433
Verrucarin A, 22420
- C₂₇H₃₄O₁₀**
Isoveprisonic acid, 11769
(2*S*,3*S*)-2-(5-Methoxy-3,4-methylenedioxybenzyl)-3-(3,4,5-trimethoxybenzyl)butane-1,4-diol diacetate, 14011
Provincialin, 17998
Veprisonic acid, 22381
- C₂₇H₃₄O₁₁**
Arctiin, 1623
CPB-2001-49-282-32, 3509
3,4,1-*O*-3,4-Dimethoxy-phenylethyl-6-*O*-cinnamoyl- β -*D*-glucopyranose, 6284
3-Methoxyarctii-4"-*O*- β -*D*-xyloside, 13841
Phillyrin, 17145
(+)-Pinoresinol monomethyl ether
O- β -*D*-glucopyranoside, 17419
Styraxlignolide F, 20427
Tetra-*O*-methylpilosidine, 21201
Undulatone, 22231
- C₂₇H₃₄O₁₂**
Eucommin A, 7487
Tracheloside, 21493
Wooresonide I, 22727
- C₂₇H₃₄O₁₃**
Alboside II, 868
Brunneogaleatoside, 2683
2-(4-Hydroxyphenyl)ethyl-1-*O*- β -*D*-[5-*O*-(4-methoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 10606
- C₂₇H₃₄O₁₄**
3,4-Dimethoxyphenyl
1-*O*- β -*D*-[5-*O*-(4-methoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 6287
4-Methoxyphenyl
1-*O*- β -*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 14055
Phlomisethanoside, 17164
- C₂₇H₃₄O₁₅**
13-*O*-[β -*D*-Apiofuranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(12*R*)-heraclenol, 1510
3,4-Dihydroxyphenylethanol-8-*O*-[(5-*O*-vanilloyl)- β -*D*-apiofuranosyl(1 \rightarrow 2)]- β -*D*-glucopyranoside, 6080
- C₂₇H₃₄O₁₆**
Albibrissinoside B, 856
Glypentoside B, 8852
Hexaacetyl catalpol, 9476
Leiocarposide, 12608
- C₂₇H₃₅BrO₂**
4-Bromobenzyl-labda-7,12(*E*),14-triene-17-oate, 2618
- C₂₇H₃₅NO₄**
Lythrancepine I, 13269
- C₂₇H₃₅NO₅**
Hokbusine B, 9575
Lythracine I, 13267
Lythracine I, 13272
Nicotinoylisoramanone, 15530
- C₂₇H₃₅NO₆**
12-*O*-Nicotinoylisolineolone, 15529
- C₂₇H₃₅NO₇**
Rostratamine, 18936
- C₂₇H₃₅N₉O₁₅P₂**
Flavinadenine dinucleotide, 7814
- C₂₇H₃₆O₄**
Isodulcinol, 11405
Scopadulciol, 19537
Scopanolal, 19538
- C₂₇H₃₆O₅**
Scopadulcic acid C, 19536
Scoparic acid A, 19539
Surangin A, 20489
- C₂₇H₃₆O₆**
Anticancer Norwithanolide PMV70P691-031, 1429
Ganolactone, 8195
Lucidenic acid F, 13030
- C₂₇H₃₆O₇**
Anticancer Norwithanolide PMV70P691-032, 1430
Lanciaquinone, 12472
Lucidenic acid K, 13035
- C₂₇H₃₆O₈**
12-*O*-Acetylphorbol-13-tigilate, 485
- C₂₇H₃₆O₉**
Crocin 4, 4252
Xanthanthusin G, 22750
- C₂₇H₃₆O₁₀**
Caesalpinin MG, 2877
Dihydrodehydrodiconiferyl alcohol
9'-*O*-glucoside, 5584
R-Myricanol 5-*O*- β -*D*-glucopyranoside, 15163
(+)-*S*-Myricanol 5-*O*- β -*D*-glucopyranoside, 15164
- C₂₇H₃₆O₁₁**
Quassamarin, 18298
- C₂₇H₃₆O₁₂**
Gaultheroside A, 8242
Nudiposide, 15864
- C₂₇H₃₆O₁₃**
Amritoside C, 1086
Citrusin B, 3776
Lucidumoside D, 13056
- C₂₇H₃₆O₁₄**
Lucidumoside C, 13055
- C₂₇H₃₈O₃**
Nigrolineaquinone A, 15573
- C₂₇H₃₈O₄**
Dulcidiol, 6621
Lygodinolide, 13245
Papuaforin C, 16631
Plastoquinone C₁, 17516
Scopadiol, 19535
25*R*-Spirost-4-en-3,12-dione, 20218
- C₂₇H₃₈O₆**
Caledonic acid, 2961
Lucidenic acid A, 13023
- C₂₇H₃₈O₇**
Ajugacumbin A, 788
Diterpenoid EF-D, 6521
Lucidenic acid B, 13024
Lucidenic acid E₁, 13028
Lucidenic acid I, 13033
Lucidenic acid L, 13036
- C₂₇H₃₈O₈**
Ajugacumbin D, 791
Lucidenic acid J, 13034
Maoecrystal T, 13541
- C₂₇H₃₈O₉**
Caesalmin F, 2868
- C₂₇H₃₈O₁₀**
2-Debenzoyl-2-tigloyl-10-deacetylbaecatins III, 4812
Taxuyunnanin R, 20885
Trilobolide, 21889
- C₂₇H₃₈O₁₁**
(3*R*,5*R*)-3,5-Dihydroxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptane
3-*O*- β -*D*-glucopyranoside, 5776
Picrasinoside A, 17320
Tinosposide A, 21400
- C₂₇H₃₈O₁₂**
Baenzigeroside B, 2100

- Icariside E₆, 10951
Tinosposide B, 21401
C₂₇H₃₈O₁₃
Seguinose I, 19672
C₂₇H₃₈O₁₅
2"-Epiframeroside, 6917
Frameroside, 7934
Rubricauloside, 19040
C₂₇H₃₉NO₂
Veratramine, 22386
C₂₇H₃₉NO₃
Brachystamide D, 2576
Fetisinine, 7794
Jervine, 11866
C₂₇H₃₉NO₇
Tatsiensine, 20727
C₂₇H₃₉NO₈
Siwanine A, 20001
C₂₇H₃₉NO₉
Merresectine D β-D-glucoside, 13788
C₂₇H₄₀N₂O₃
Epoxy sarcovagenine D, 7198
C₂₇H₄₀O₂
Caseamemin, 3266
Δ^{3,5}-Deoxyneotigogenin, 5197
Δ^{3,5}-Deoxytigogenin, 5216
25α-Spirosta-3,5-diene, 20207
25β-Spirosta-3,5-diene, 20208
δ-Tocotrienol, 21417
C₂₇H₄₀O₃
Walsurol, 22631
C₂₇H₄₀O₄
9(11)-Dehydrohecogenin, 4928
3-Epineoruscogenin, 6974
Plastoquinone C₂, 17517
Schisanterpene B, 19488
Sisalagenone, 19978
C₂₇H₄₀O₅
Asparacosin A, 1864
9(11)-Dehydromanogenin, 4945
Kammogenin, 12126
Proliferin, 17904
C₂₇H₄₀O₆
Lucidenic acid LW₁, 13038
2,3-Seco-porrigenin, 19634
C₂₇H₄₀O₇
Hongdoushan B, 9627
Lucidenic acid C, 13025
Lucidenic acid H, 13032
Trichurusin J, 21587
Trichurusin K, 21588
C₂₇H₄₀O₁₀
14,15-Dihydro-15β-methoxy-3-epicaryoptin,
5670
Glabcensin P, 8477
C₂₇H₄₀O₁₁
Isovaleroxy-hydroxy dihydrovaltrate, 11755
C₂₇H₄₀O₁₄
Amritoside B, 1085
C₂₇H₄₀O₁₆
trans-p-Coumaroyl alcohol
1-*O*-β-D-glucopyranosyl(1→4)-α-L-rhamno-
pyranosyl(1→3)-β-D-glucopyranoside, 4145
C₂₇H₄₁ClO₃
26-Chloro-26-deoxycryptogenin, 3546
C₂₇H₄₁NO₂
Cyclopamine, 4522
Ebeinone, 6661
C₂₇H₄₁NO₃
Brachystamide E, 2577
Ebeiensine, 6658
Hupehenisine, 9684
Korsevinine, 12278
Peimisine, 16776
Petisidine, 17020
Songbeisine, 20074
C₂₇H₄₁NO₄
Yibeissine, 22907
C₂₇H₄₁NO₈
Deltaline, 5036
C₂₇H₄₁N₃O₅
Cordyceptide A, 4047
C₂₇H₄₂N₄O₄
Hovenine A, 9653
C₂₇H₄₂O₂
Calicoferol E, 2975
(22*E*)-25,26,27-Trinor-3β-hydroxycycloart-22-
en-24-al, 21982
C₂₇H₄₂O₃
22-Cyclopentylol-22-deisopenty-3β-hydroxyl-
furostanol, 4525
Diosgenin, 6440
Neotigogenone, 15467
Sarsasapogenone, 19392
Smilagenone, 20028
Tigogenone, 21388
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Yamogenin, 22878
C₂₇H₄₂O₄
Cryptogenin, 4280
3-Epiruscogenin, 7009
Gloriogenin, 8588
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Isonarthenin, 11554
Laxogenin, 12591
Lilagenin, 12832
Nuatigenin, 15855
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Plastoquinone from *Sargassum micracanthum*,
17520
Ruscogenin, 19070
Sisalagenin, 19977
Torvogenin, 21469
Yuccagenin, 22936
C₂₇H₄₂O₅
12-Ketoporrigenin, 12206
Manogenin, 13510
Mexogenin, 14823
Neomanogenin, 15433
Neomexogenin, 15435
Tupichigenin E, 22112
C₂₇H₄₂O₆
2α-Acetoxy-14β-[(*S*)-2-methyl-butryloxy]-
4(20),11-taxadiene, 257
Hongdoushan C, 9628
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Podocdysone B, 17583
Tupichigenin D, 22111
C₂₇H₄₂O₇
22-Oxo-ajugasterone C, 16291
22-Oxo-20-hydroxyecdysone, 16350
Δ25(27)-Pentrogenin, 16891
C₂₇H₄₂O₇S
Ruscogenin 1-*O*-sulfate, 19073
C₂₇H₄₂O₉
Spirost-25(27)-ene-1,2,3,4,5,6,7-heptol, 20220
C₂₇H₄₂O₁₃
Jasnudifloside F, 11826
Jasnudifloside G, 11827
C₂₇H₄₂O₁₃
Nudifloside D, 15863
C₂₇H₄₂O₁₇
4'-Deoxykanokoside C, 5186
C₂₇H₄₂O₂₀
Rehmannioside D, 18599
C₂₇H₄₃NO
Shinonomenine, 19828
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C₂₇H₄₃NO₂
Chuanbeinone, 3630
Delavinone, 4997
Ebeienine, 6657
Fritillarizine, 7957
Hupehenirine, 9683
Hupehenizine, 9685
Korseverinine, 12277
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- Solasodine, 20066
 Tomatidenol, 21433
 Zhebeirine, 22997
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- C₂₇H₄₃NO₃**
 Ebeietinone, 6659
 15 α -Hydroxysolasodine, 10713
 15 α -Hydroxytomatidenol, 10771
 Imperialine, 11002
 Impericine, 11004
 Korsine, 12279
 Peiminine, 16774
 Taipainenine, 20624
 Zhebeinone, 22995
- C₂₇H₄₃NO₄**
 Imperialine *N*-oxide, 11003
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- C₂₇H₄₃NO₆**
 Pingbeimine C, 17380
- C₂₇H₄₃NO₇**
 Bullatine E, 2740
 Delbrusine, 5001
 Zygadenine, 23033
- C₂₇H₄₃NO₈**
 Acetylbrowniine, 338
 Delbonine, 4998
 Tricornine, 21593
 Veracevine, 22382
- C₂₇H₄₃NO₉**
 Protoverine, 17996
- C₂₇H₄₄O**
 Cholest-4-ene-3-one, 3578
 7-Dehydrocholesterol, 4885
- C₂₇H₄₄O₂**
 (2*R*,3*R*,4*S*,6*S*)-3-Methyl-4,6-di(3-methyl-2-butenyl)-2-(2-methyl-1-oxopropyl)-3-(4-methyl-3-pentenyl)-cyclohexanone, 14322
 Wrightial, 22734
- C₂₇H₄₄O₃**
 Epi-sarsapogenin, 7013
 Epismilagenin, 7022
 Neotigogenin, 15463
 Octadecyl (*E*)-*p*-coumarate, 15959
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 Sarsapogenin, 19390
 Smilagenin, 20025
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- C₂₇H₄₄O₄**
 Barbourgenin, 2150
 Chlorogenin, 3552
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- Isorhodeasapogenin, 11674
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 Neogitogenin, 15397
 Octadecanyl caffeate, 15953
 Rhodeasapogenin, 18781
 Rockogenin, 18893
 Ruizgenin, 19065
 Samogenin, 19230
 Yonogenin, 22924
- C₂₇H₄₄O₅**
 Agavogenin, 726
 Hainangenin, 9192
 Hongguanggenin, 9630
 Igagenin, 10961
 Isocarneagenin, 11307
 Isoreineckiagenin, 11646
 Paniculogenin, 16616
 Reineckiagenin, 18602
 5 α -Spirostan-3 β ,12 β ,15 α -triol, 20215
 Tokorogenin, 21426
 Δ^{23} -3 α ,7 α ,12 α -Trihydroxy coprostenic acid, 21696
 Trihydroxy-isosterocholenic acid, 21754
- C₂₇H₄₄O₆**
 Ecdysone, 6678
 Glycoside E, 8828
 Kitigenin, 12231
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 Periplocoside N, 16956
 Ponasterone A, 17700
 Taxisterone, 20807
 Tupichigenin F, 22113
- C₂₇H₄₄O₇**
 Ajugasterone C, 811
 Commisterone, 3944
 Ecdysterone, 6679
 20-Hydroxyecdysone, 10061
 24-Hydroxyecdysone, 10062
 Inokosterone, 11067
 (25*R*)-*Inokosterone*, 11068
 (25*S*)-*Inokosterone*, 11069
 Locin, 12948
 Pentologenin, 16890
 Ponasterone C, 17702
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- C₂₇H₄₄O₈**
 1 α ,20*R*-Hydroxyecdysone, 10063
 5 β -Hydroxyecdysterone, 10066
 Polypodine B, 17662
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- C₂₇H₄₄O₁₀S**
 Aspidistrogenin A, 1899
- C₂₇H₄₄O₁₃**
 Atractyloside I, 1981
cis-Atractyloside I, 1982
- C₂₇H₄₄O₁₄**
 Dendroside D, 5123
- C₂₇H₄₅NO₂**
 Delavine, 4996
 Ebeimine, 6660
 Forticine, 7928
 Hupehenine, 9681
 17 α *H*-Persicanidine A, 16988
 Soladulcidine, 20042
 Tomatidine, 21434
 Tortifoline, 21466
- C₂₇H₄₅NO₃**
 Baimonidine, 2110
 Delafrine, 4990
 Hupehenidine, 9680
 15 α -Hydroxysoladulcidine, 10711
 15 β -Hydroxysoladulcidine, 10712
 15 α -Hydroxytomatidine, 10772
 Isobaimonidine, 11244
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 Korseveriline, 12276
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 Wanpeimine A, 22636
 Zhebeimine, 22993
- C₂₇H₄₅NO₄**
 Esculeogenin B, 7375
 Isoesculeogenin A, 11418
 Isoverticine- β -*N*-oxide, 11771
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- C₂₇H₄₅NO₅**
 Pingpeimine A, 17384
- C₂₇H₄₅NO₆**
 Pingpeimine B, 17385
- C₂₇H₄₆N₂O₂**
 Solanocapsine, 20061
- C₂₇H₄₆O**
 Cholesterol, 3585
- C₂₇H₄₆O₂**
 7 α -Hydroxycholesterol, 9904
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- C₂₇H₄₆O₄**
 Guggulsterol Y, 9075
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- C₂₇H₄₆O₅**
 Coprocholic acid, 4031
 Ponasterone B, 17701
- C₂₇H₄₆O₈**
 Microlepin, 14838

- C₂₇H₄₆O₁₀**
Crenulatoside A, 4228
Nerolidol-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside, 15501
- C₂₇H₄₆O₁₁**
Officinose C, 16017
Officinose D, 16018
- C₂₇H₄₆O₁₂**
Atractyliside D, 1977
- C₂₇H₄₆O₁₃**
(2*R*,3*R*,5*R*,7*R*,10*S*)-Atractyliside G 2-*O*- β -*D*-glucopyranoside, 1980
- C₂₇H₄₆O₁₄**
Dictamnose G, 5448
- C₂₇H₄₆O₁₅**
Atractyliside A 14-*O*- β -*D*-fructofuranoside, 1974
- C₂₇H₄₇NO₂**
Hapepunine, 9220
- C₂₇H₄₇O₇**
Marsin, 13578
- C₂₇H₄₈N₂**
Cycloprotobuxine C, 4531
- C₂₇H₄₈N₂O**
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- C₂₇H₄₈O₄**
Agavegenin D, 725
Tetrahydroynorbufostane, 21138
- C₂₇H₄₈O₅**
5 β -Bufol sulfate, 2720
5 α -Cyprinol, 4582
5 β -Cyprinol, 4583
- C₂₇H₄₈O₇**
5 α -Cholest-3 β ,6 α ,7 α ,8 β ,15 α ,16 β ,26-sevol, 3587
- C₂₇H₄₈O₉**
(2*S*)-1-*O*-(9*Z*,12*Z*-Octadeca-dien-*noyl*)-3-*O*- β -*D*-galactopyranosyl-glycerol, 15940
- C₂₇H₄₈O₁₂**
Dendronobiloside A, 5120
- C₂₇H₄₈O₁₄**
Dictamnose M, 5454
- C₂₇H₄₉NO₂**
Haloxylone A, 9200
- C₂₇H₄₉NO₃**
Haloxylone B, 9201
- C₂₇H₅₁O₁₁S⁻**
(2*S*)-1-Stearoyl-3-*O*-(6-sulpho- α -*D*-quinovopyranosyl)-glycerol, 20282
- C₂₇H₅₂O₂**
Heptacosan-4-olide, 9371
Pentacosyl vinyl ester, 16827
- C₂₇H₅₂O₄**
Bifloride A, 2368
- C₂₇H₅₆**
n-Heptacosane, 9368
- C₂₇H₅₆O**
14-Heptacosanol, 9369
Heptacosanol, 9370
- C₂₈H₁₀O₁₆**
Tetrameric gallic acid, 21177
- C₂₈H₁₄Cl₈O₄**
Bazzanin R, 2186
- C₂₈H₁₆Cl₆O₄**
Bazzanin Q, 2185
- C₂₈H₁₇Cl₅O₄**
Bazzanin P, 2184
- C₂₈H₁₇O₇**
Hopeafuran, 9636
- C₂₈H₁₈Cl₄O₄**
Bazzanin N, 2182
- C₂₈H₁₈O₁₀**
Ustilaginoidin A, 22283
- C₂₈H₁₉Cl₃O₄**
Bazzanin M, 2181
- C₂₈H₂₀Cl₆O₄**
6,6',10,10',12,12'-Hexachloroisoperrottetin A, 9478
- C₂₈H₂₀O₈**
Cassigarol D, 3288
Cassigarol G, 3291
- C₂₈H₂₂O₄**
Isoplagiochin C, 11604
- C₂₈H₂₂O₆**
Ampelopsin B, 1077
Ampelopsin D, 1078
Gnetin C, 8879
Marchantin G, 13555
Maximol A, 13616
Maximol B, 13617
Pallidol, 16550
Resveratrol *E*-dehydrodimer, 18644
e-Viniferin, 22505
(+)-*e*-Viniferin, 22506
(-)-*e*-Viniferin, 22507
e-*iso*-Viniferin, 22508
- C₂₈H₂₂O₇**
(+)-Ampelopsin A, 1075
(-)-Ampelopsin A, 1076
(+)-Balanocarpol, 2124
Cassigarol C, 3287
Gnetuhainin A, 8882
Gnetuhainin C, 8883
2b-Hydroxyampelopsin F, 9779
Parvifolol A, 16688
Parvifolol B, 16689
Scirpusin A, 19531
- C₂₈H₂₂O₈**
Cassigarol E, 3289
Cassigarol F, 3290
Gnetumontanin A, 8893
Parvifolol C, 16690
Scirpusin B, 19532
Terrestrin D, 21009
Tibeticanol, 21369
- C₂₈H₂₃NO₈**
Oxohermandaline, 16343
- C₂₈H₂₄N₂O₃**
3,3'-[Oxybis(methylene)]bis(9-methoxy-9*H*-carbazole), 16442
- C₂₈H₂₄N₄O₄**
Picrasidine H, 17300
- C₂₈H₂₄O₄**
Isomarchantin C, 11528
Isoriccardin C, 11681
Marchantin B, 13551
Riccardin C, 18839
- C₂₈H₂₄O₅**
Marchantin A, 13550
- C₂₈H₂₄O₆**
Gnetin F, 8881
Marchantin C, 13552
Marchantin D, 13553
Marchantin L, 13558
- C₂₈H₂₄O₇**
Goniolactone B, 8940
Goniolactone C, 8941
Goniolactone E, 8943
- C₂₈H₂₄O₈**
Albotalol, 863
Cassigarol A, 3285
Goniolactone D, 8942
- C₂₈H₂₄O₁₂**
Methyl melitrate A, 14580
Monomethyl lithospermate, 14927
- C₂₈H₂₄O₁₃**
Chrysofanol-8-*O*- β -*D*-(6'-*O*-galloyl)-glucopyranoside, 3616
2''-*O*-*p*-Hydroxybenzoylorientin, 9827
- C₂₈H₂₄O₁₄**
2''-*O*-Galloylisovitexin, 8112
2''-*O*-Galloylvitexin, 8119
- C₂₈H₂₄O₁₅**
2''-*O*-Galloylisoorientin, 8111
2''-*O*-Galloylorientin, 8113
3'-Hydroxyscutellarein 7-*O*-(6''-*O*-protocatechuoyl)- β -glucopyranoside, 10695
Kaempferol 3-*O*-(6''-galloyl)- β -*D*-glucopyranoside, 12048
Kaempferol-3-*O*-(2''-*O*-galloyl)- β -*D*-glucoside,

- 12049
Quercitrin-2"-gallate, 18412
- C₂₈H₂₄O₁₆**
Desmanthin 2, 5252
Hyperin-2"-*O*-gallate, 10888
Myricetin-3-*O*-(2"-*O*-galloyl)- α -rhamnopyranoside, 15180
Myricetin-3-*O*-(3"-*O*-galloyl)- α -rhamnopyranoside, 15181
Quercetin-3-*O*-(6"-galloyl)-galactoside, 18358
Quercetin-3-*O*-(6"-galloyl)- β -*D*-glucopyranoside, 18359
Quercetin-3-*O*-(2"-*O*-galloyl)- β -*D*-glucoside, 18360
Quercetin-4'-*O*- β -*D*-glucopyranoside-6"-gallate, 18361
- C₂₈H₂₄O₁₇**
Myricetin-3-*O*- β -*D*-(6"-*O*-galloyl)-galactopyranoside, 15177
Myricetin-3-*O*-(2"-*O*-galloyl)- β -*D*-glucopyranoside, 15178
Myricetin-3-*O*- β -*D*-(6"-*O*-galloyl)-glucopyranoside, 15179
Quercetagetin-7-*O*-(6-*O*-galloyl)- β -*D*-glucopyranoside), 18310
- C₂₈H₂₅N₄O₂⁺**
Kumujansine A, 12332
- C₂₈H₂₅N₄O₄**
Picrasidine T, 17311
- C₂₈H₂₅O₁₆⁺**
Delphinidin-3'-*O*-(2"-*O*-galloyl)- β -galactopyranoside), 5024
- C₂₈H₂₆N₂O₁₀**
Ophiocordin, 16130
- C₂₈H₂₆O₄**
Perrottetin E, 16984
- C₂₈H₂₆O₅**
Perrottetin F, 16986
- C₂₈H₂₆O₇**
Neocalyxin A, 15351
Neocalyxin B, 15352
Rhinacanthin Q, 18778
- C₂₈H₂₆O₉**
Guangsangon L, 9064
Pannellin, 16618
Rocaglamide derivative 8, 18888
- C₂₈H₂₆O₁₂**
Diphyllin acetylapioside, 6491
- C₂₈H₂₆O₁₄**
Naringenin 7-*O*-(6"-*O*-galloyl)-glucoside, 15281
- C₂₈H₂₆O₁₅**
(*S*)-Eriodictyol-7-*O*-(6"-*O*-galloyl)- β -*D*-glucopyranoside, 7282
- C₂₈H₂₆O₁₈**
Methyl 2,3,6-tri-*O*-galloyl- β -*D*-glucopyranoside, 14772
Methyl 3,4,6-tri-*O*-galloyl- β -*D*-glucopyranoside, 14773
- C₂₈H₂₈O₆**
Caloxanthone, 2997
Dulcisxanthone D, 6629
Garcimangosone A, 8206
Mangostenone A, 13488
- C₂₈H₂₈O₈**
Bletilol A, 2515
Methyl rocaglate, 14714
- C₂₈H₂₈O₉**
3'-Hydroxyrocaglate, 10677
- C₂₈H₂₈O₁₁**
Aloeresin A, 973
6'-*O*-*p*-Coumaroylaloerin, 4146
Curtisian I, 4405
Isoaloeresin A, 11204
- C₂₈H₂₈O₁₂**
(-)-Epicatechin-5-*O*- β -*D*-glucopyranosyl-3-benzoate, 6865
- C₂₈H₂₈O₁₃**
Rhaponticin 2"-*O*-gallate, 18746
Rhaponticin 6"-*O*-gallate, 18747
cis-3,5,3'-Trihydroxy-4'-methoxystilbene-3-*O*- β -*D*-(2"-*O*-galloyl) glucopyranoside, 21786
cis-3,5,3'-Trihydroxy-4'-methoxystilbene-3-*O*- β -*D*-(6"-*O*-galloyl) glucopyranoside, 21787
- C₂₈H₂₈O₁₅**
Isorhamnetin 3-*O*- β -*D*-2',3',4"-triacylglucopyranoside, 11670
- C₂₈H₂₈O₁₇**
Acacetin-7-glucurono-(1 \rightarrow 2)-glucuronide, 58
- C₂₈H₂₉NO₇**
Grossamide K, 9014
- C₂₈H₂₉NO₈**
3'-Hydroxy-*N*-demethylrocaglamide, 9981
- C₂₈H₃₀N₂O₁₁**
Desoxycordifoline, 5272
- C₂₈H₃₀O₅**
Dulcisxanthone A, 6626
Nigrolineaxanthone S, 15592
- C₂₈H₃₀O₆**
Allanxanthone B, 918
Cowagarcinone D, 4198
Tovophyllin A, 21481
Virgataxanthone B, 22525
- C₂₈H₃₀O₉**
Physalin B, 17240
Physalin C, 17241
- C₂₈H₃₀O₁₀**
- Buergeriside A₁, 2709
5 β ,6 β -Epoxyphysalin B, 7187
Physalin A, 17239
Pilosanol C, 17363
- C₂₈H₃₀O₁₂**
6"-*O*-Acetylamurensin, 315
- C₂₈H₃₀O₁₃**
Dracunculifoside L, 6591
Pabularin A, 16485
Pabularin B, 16486
Pabularin C, 16487
Praeroside I, 17756
- C₂₈H₃₀O₁₄**
Cassiaoccidentalinalin C, 3283
- C₂₈H₃₀O₁₅**
1-Methoxy-3-hydroxy-2-carbomethoxy-9,10-anthraquinone 3-*O*- β -primeveroside, 13953
2-Methyl-1,3,6-trihydroxy-9,10-anthraquinone-3-*O*- β -*D*-xylosyl-(1 \rightarrow 2)- β -*D*-(6'-*O*-acetyl) glucoside, 14779
- C₂₈H₃₀O₁₇**
Quercetin-7-*O*- α -*L*-Arabinosyl-3-*O*- β -*D*-6"-acetyl glucopyranoside, 18329
- C₂₈H₃₁NO₈**
erythro-Cannabisine H, 3054
- C₂₈H₃₂N₂O₉**
6-*O*-Acetylstritosamide, 515
- C₂₈H₃₂O₅**
Cochinchinone A, 3870
- C₂₈H₃₂O₆**
Allanxanthone C, 919
Cochinchinone B, 3871
Dulcisxanthone E, 6630
Garciniane A, 8210
Garciniane B, 8211
Garciniane C, 8212
Garcinone E, 8222
Norcowanin, 15728
1,3,5,6-Tetrahydroxy-4,7,8-tri(3-methyl-2-butenyl)xanthone, 21168
Virgataxanthone A, 22524
- C₂₈H₃₂O₈**
Griffonianone A, 9007
- C₂₈H₃₂O₉**
11-Oxo-7 α -obacunyl acetate, 16398
Physalin M, 17244
- C₂₈H₃₂O₁₀**
Physalin L, 17243
Pilosanol B, 17362
Rutaevin acetate, 19082
- C₂₈H₃₂O₁₁**
Physalin D, 17242
- C₂₈H₃₂O₁₂**

- 6"-*O*-Acetylphellamurin, 481
 Hymenoside I, 10852
- C₂₈H₃₂O₁₃**
 Derriscanoside A, 5227
 β -Peltatin glucoside, 16796
L-Picropodophyllin 7'-*O*- β -*D*-glucopyranoside, 17339
 Podophyllotoxin 7'-*O*- β -*D*-glucopyranoside, 17593
- C₂₈H₃₂O₁₄**
 Acaciin, 61
 Chrysoeriol 6-*C*- β -boivinopyranosyl-7-*O*- β -glucopyranoside, 3606
 Derriscandenoside B, 5223
 1,2-Di-*O*-*E*-sinapoyl- β -glucopyranose, 6509
 1,6-Di-*O*-sinapoylglucose, 6510
 Fortunellin, 7930
 Hirsutissimide B, 9555
 Lasianthuoside C, 12533
 Liquiritigenin-7-*O*- β -*D*-(3-*O*-acetyl)-apiofuranosyl-4'-*O*- β -*D*-glucopyranoside, 12909
 Physcion-8-*O*-rhamnosyl-(1 \rightarrow 2)-glucoside, 17252
 Saikoisoflavonoside A, 19137
- C₂₈H₃₂O₁₅**
 Abrusin-2"-*O*-apioside, 29
 Chrysoeriol 7-*O*-rutinoside, 3610
 5,4'-Dihydroxyl-6,7-dimethoxyl-8-*C*-[β -*D*-xylocopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl flavone, 5949
 Diosmin, 6454
 Flavocommelin, 7817
 Hirsutissimide C, 9556
 Kaempferide-3-*O*-neohesperidoside, 12016
 Physciondiglucoside, 17249
 Physcion-8-*O*- β -*D*-gentiobioside, 17250
 Rhamnetin-3-*O*-rhamnosyl (1 \rightarrow 4)-rhamnopyranoside, 18681
 Spinosin, 20172
 Wikstroemin, 22668
 Zivulgarin, 23007
- C₂₈H₃₂O₁₆**
 Complanatuside, 3949
 Isorhamnetin 3-*O*- β -*D*-glucopyranosyl-(1-2)- α -*L*-rhamnopyranoside, 11658
 Isorhamnetin-3-*O*-glucosyl-7-*O*-rhamnoside, 11661
 Isorhamnetin-3-*O*-neohesperidoside, 11662
 Isorhamnetin-3-*O*-robinobioside, 11668
 Isorhamnetin-3-*O*-rutinoside, 11669
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- Tectorigenin-4'-glucosyl(1 \rightarrow 6)glucoside, 20903
 5,3',4'-Trihydroxyl-6,7-dimethoxyl-8-*C*-[β -*D*-xylocopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl flavone, 21761
- C₂₈H₃₂O₁₇**
 Isorhamnetin 3,7-*O*-di- β -*D*-glucopyranoside, 11655
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 Quercetagetin 7-methylether 3-*O*-neohesperidoside, 18315
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- C₂₈H₃₂O₁₈**
 Quercetagetin 7-methylether 3-*O*-cellobioside, 18312
- C₂₈H₃₃N₂O₉⁺**
 3,4,5,6-Tetrahydrodolicchantoside, 21049
- C₂₈H₃₃O₁₅⁺**
 Peonidin-3-*O*-(6"-*O*- α -rhamnopyranosyl- β -glucopyranoside), 16904
- C₂₈H₃₃O₁₆⁺**
 Peonin, 16905
- C₂₈H₃₃O₁₇⁺**
 Petudin-3,7-di-*O*-(β -*D*-glucopyranoside), 17023
- C₂₈H₃₄N₂O₁₁**
 (5*S*)-5-Carboxystrictosidine, 3184
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 Peperovulcanone B, 16908
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 6 α -Hydroxyzadiradione, 9808
 Nicandrenone II, 15521
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 Angeloyl gomisin O, 1207
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 Mallotophilippen A, 13433
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- C₂₈H₃₄O₉**
 Ananosin A, 1139
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 Gomisin B, 8907
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 Nomilin, 15655
 Schisantherin C, 19489
 Tigloylgomisin P, 21377
 3,7,4'-Trihydroxy-3'-(8"-acetoxyl-7"-methyl-octyl)-5,6-dimethoxyflavone, 21685
- C₂₈H₃₄O₁₀**
 Gomisin D, 8909
 Taiwanschirin D, 20646
- C₂₈H₃₄O₁₃**
 Dracunculifoside O, 6594
 Podorhizol β -*D*-glucoside, 17595
- C₂₈H₃₄O₁₄**
 Isosakuranetin-7-rutinoside, 11692
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 (2*S*)-Homoperiodictyol 7,4'-di-*O*- β -*D*-glucopyranoside, 9605
 2,3,4,7-Tetramethoxyxanthone-1-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 21191
 Veratriloside C, 22387
- C₂₈H₃₅ClO₁₁**
 Junceellin, 11944
- C₂₈H₃₅ClO₁₂**
 Praelolide, 17755
- C₂₈H₃₅ClO₁₃**
 Juncin P, 11956
- C₂₈H₃₅NO₈**
 Anhydroharringtonine, 1270
- C₂₈H₃₆N₂O₄**
 Psychotrine, 18095
- C₂₈H₃₆N₂O₅**
 Alangicine, 829
- C₂₈H₃₆O₃**
 6-Oxo-iguesterol, 16359
 Tingenone, 21397
- C₂₈H₃₆O₄**
 Daturilin, 4673
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 6-Oxotingenol, 16429
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- C₂₈H₃₆O₅**
 6 α -*O*-Acetyl-7-deacetylnimocinol, 364
 Benzoylramanone, 2268

- 5 β ,6 β -Epoxy-4 β -hydroxy-1-oxowitha-2,14,24-trienolide, 7128
- 5 β ,6 β -Epoxy-4 β -hydroxy-1-oxo-witha-2,16,24-trienolide, 7129
- 17 β -Hydroxy-14 α ,20 α -epoxy-1-oxo-(22*R*)-witha-3,5,24-trienolide, 10092
- Salaquinone B, 19178
- Withacoagulin, 22699
- C₂₈H₃₆O₆**
- Azadironolide, 2051
- 12-*O*-Benzoylisolineolone, 2246
- Withanicandrin, 22701
- Withanone, 22705
- Withaphysalin B, 22717
- C₂₈H₃₆O₇**
- Turraparvin A, 22138
- Turraparvin B, 22139
- C₂₈H₃₆O₈**
- Angeloyl gomisin H, 1206
- [(2*S*,3*R*,4*R*)-4-(3,4-Dimethoxybenzyl)-2-(3,4,5-trimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate, 6212
- Heteroclitin A, 9460
- Propinquanin F, 17929
- Qingyangshengenin, 18291
- Uliginosin A, 22190
- C₂₈H₃₆O₉**
- Forrestin F, 7920
- Kupitengester 4, 12339
- C₂₈H₃₆O₁₀**
- Celahnin C, 3359
- Nomilinic acid, 15656
- C₂₈H₃₆O₁₁**
- Bruceantin, 2660
- Glabcensin R, 8479
- C₂₈H₃₆O₁₂**
- Bruceine C, 2666
- C₂₈H₃₆O₁₃**
- Acanthoside B, 85
- Juncenolide B, 11950
- C₂₈H₃₆O₁₄**
- 2-(4-Hydroxyphenyl)ethyl 1-*O*- β -*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 10618
- Magnolenin C, 13376
- Tyrolobibenzyl E, 22160
- C₂₈H₃₆O₁₅**
- 2,4-Dimethoxyphenol 1-*O*- β -*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 6274
- 3,4-Dimethoxyphenyl 1-*O*- β -*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 6281
- 3,4,5-Trimethoxyphenyl 1-*O*- β -*D*-[5-*O*-(4-methoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 21927
- C₂₈H₃₆O₁₆**
- Piloside A, 17368
- C₂₈H₃₆O₁₇**
- Piloside B, 17369
- Rubinaphthin D, 19035
- C₂₈H₃₇NO₅**
- Lythranine, 13280
- Turraparvin D, 22141
- C₂₈H₃₇NO₇**
- Guan-fu base P**, 9050
- C₂₈H₃₇NO₈**
- Deoxyharringtonine, 5181
- C₂₈H₃₇NO₉**
- Harringtonine, 9239
- Isoharringtonine, 11449
- C₂₈H₃₈N₂O₄**
- Cephaeline, 3400
- C₂₈H₃₈N₈O₅**
- Hordatine A, 9644
- C₂₈H₃₈O₄**
- Gerronemin F, 8365
- Grevirobstol A, 8998
- 20 β -Hydroxy-1-oxo-(22*R*)-witha-2,5,24-trienolide, 9743
- 27-Hydroxy-3-oxo-witha-1,4,24-trienolide, 10587
- C₂₈H₃₈O₅**
- Daturilinol, 4674
- Euglobal III, 7531
- Euglobal V, 7532
- Lycium substance B, 13181
- Meldenin, 13661
- Withacoagin, 22698
- Withanolide B, 22703
- C₂₈H₃₈O₆**
- Ajugin, 812
- (20*S*,22*R*)-5 α ,27-Dihydroxy-6 α ,7 α -epoxy-1-oxo-witha-2,24-dienolide, 5880
- 6 α ,7 α -Epoxy-5 α ,20 β -dihydroxy-1-oxowitha-2,24-dienolide, 7082
- Methyl lucidenate F, 14562
- Nicandrin B, 15522
- Withaferin A, 22700
- Withanolide A, 22702
- Withanolide D, 22704
- C₂₈H₃₈O₇**
- Ajugin E, 813
- 5 β ,6 β -Epoxy-4 β ,17 α ,27-trihydroxy-1-oxowitha-2,24-dienolide, 7210
- (20*S*,22*R*)-5 β ,6 β -epoxy-4 β ,14 β ,15 α -trihydroxy-1-oxowitha-2,24-dienolide, 7214
- 18-Hydroxywithanolide D, 10827
- 27-Hydroxy withanone, 10828
- C₂₈H₃₈O₈**
- Anticancer Withanolide PMV70P691-046, 1452
- Penisimpticin B, 16807
- C₂₈H₃₈O₈S**
- Daturametelin F, 4670
- C₂₈H₃₈O₉**
- Gesneroidin D, 8369
- Glabcensin W, 8484
- Lungshengenin E, 13081
- Lushanrubescensin C, 13118
- Rabyuennane A, 18510
- Taxinine H, 20801
- C₂₈H₃₈O₁₀**
- Bulleyanin, 2743
- Calcicolin A, 2947
- Gesneroidin C, 8368
- Glabcensin A, 8462
- Glabcensin B, 8463
- Inflexusin, 11055
- Lungshengenin B, 13077
- Lushanrubescensin A, 13116
- Nervosanin, 15507
- Rabdoforrestin A, 18461
- Rabdoforrestin A', 18462
- Rabdosianin B, 18488
- Rabdosinate, 18497
- Taxine B', 20796
- Taxuspine F, 20854
- 2 α ,5 α ,7 β ,13 α -Tetraacetoxy-10 β -hydroxy-2(3 \rightarrow 20)abeotaxan-9-one, 21029
- C₂₈H₃₈O₁₁**
- Ajugapantinsin A, 808
- Decinnamoyltaxinine B 11,12-oxide, 4855
- Juncecellolide D, 11946
- Pseudolaric acid A-*O*- β -*D*-glucopyranoside, 18032
- Tasumatrol N, 20724
- Taxumairol C, 20823
- Taxumairol I, 20829
- C₂₈H₃₈O₁₂**
- 5 α -Decinnamoyltaxagifine, 4853
- Javanicolide D, 11854
- C₂₈H₃₈O₁₃**
- (+)-5,5'-Dimethoxy-9-*O*- β -*D*-glucopyranosyl lariciresinol, 6230
- (+)-Lyoniresinol-2 α -*O*- β -*D*-glucopyranoside, 13250
- (-)-Lyoniresinol-3 α -*O*- β -*D*-glucopyranoside, 13253
- C₂₈H₃₉ClO₁₀**

- Juncenolide A, 11949
- C₂₈H₃₉NO**
N-[(S)-1-Phenylethyl]-labda-7,12(E),14-triene-17-amide, 17118
- C₂₈H₃₉NO₆**
Lycoposerramine O, 13234
- C₂₈H₄₀O**
Ergosta-4,6,8(14),22-tetraen-3-one, 7247
- C₂₈H₄₀O₃**
9(11)-Dehydroaxinysterol, 4880
2,8-Dimethyl-2-[(3E,7E)-4,8,12-trimethyltrideca-3,7,11-trienyl]-5-formyl-chroman-6-ol, 6415
2,8-Dimethyl-2-[(3E,7E)-4,8,12-trimethyltrideca-3,7,11-trienyl]-7-formyl-chroman-6-ol, 6416
- C₂₈H₄₀O₄**
Grevirobstol B, 8999
Regeol A, 18584
Siraitic acid C, 19973
- C₂₈H₄₀O₅**
Siraitic acid D, 19974
Siraitic acid E, 19975
- C₂₈H₄₀O₆**
Ajugin F, 814
Anticancer Withanolide PMV70P691-049, 1455
Anticancer Withanolide PMV70P691-149, 1457
4,20-Dideoxyphorbol 12,13-bis(isobutyrate), 5476
2,3-Dihydrowithaferin A, 5739
24,25-Dihydrowithanolide A, 5740
Macrocarpal A, 13315
Methyl lucidenate A, 14559
Surinone A, 20493
4 β ,7 β ,20R-Trihydroxy-1-oxowitha-2,5-dien-22,26-olide, 21834
- C₂₈H₄₀O₇**
Anticancer Withanolide PMV70P691-047, 1453
4-Deoxyphorbol 12,13-bis(isobutyrate), 5202
4-Epi-4-deoxyphorbol 12,13-bis(isobutyrate), 6892
6 α ,7 α -Epoxy-3 β ,5 α ,17 α -trihydroxy-1-oxo-witha-24-enolide, 7211
(20S,22R)-3 α ,6 α -Epoxy-4 β ,5 β ,27-trihydroxy-1-oxowitha-24-enolide, 7212
6 α ,7 α -Epoxy-3 β ,5 α ,20 β -trihydroxy-1-oxo-witha-24-enolide, 7213
Methyl lucidenate L, 14563
(20S,22R)-4 β ,5 β ,6 α ,27-Tetrahydroxy-1-oxowitha-2,24-dienolide, 21148
Withaphysacarpin, 22715
- C₂₈H₄₀O₈**
Anhydrohirundigenin monothevetoside, 1272
Anticancer Withanolide PMV70P691-045, 1451
Anticancer Withanolide PMV70P691-048, 1454
- 2,3-Dihydroixocarpalactone B, 5657
Ixocarpalactone A, 11804
3 β -Oxo-formyl-7 β ,12 β -dihydroxy-4,4,14 α -trimethyl-5 α -chol-11,15-dioxo-8-en(E)-24-oic acid, 16336
Taxusin, 20840
Taxuyunnanine C, 20875
- C₂₈H₄₀O₉**
Adenanthin D, 608
2-Deacetoxy-5-decinnamoyl taxinine J, 4704
Decinnamoyltaxinine E, 4854
Glaucogenin C mono-D-thevetoside, 8507
14 β -Hydroxytaxusin, 10740
7 β -Hydroxy-2 α ,5 α ,10 β ,14 β -tetraacetoxytaxa-4(20),11-diene, 10743
Rabyuennane C, 18512
Taxa-4(20),11-diene-5 α -hydroxy-1 β ,7 β ,9 α ,10 β -tetraacetate, 20741
5 α ,9 α ,10 β ,13 α -Tetraacetoxyl-15-hydroxy-11(15 \rightarrow 1)-abeo-taxa-4(20),11-diene, 21028
- C₂₈H₄₀O₁₀**
Calcicolin D, 2953
Calcicolin E, 2954
2 α ,5 α -Dihydroxy-7 β ,9 α ,10 β ,13 α -tetraacetoxyl-4(20),11-taxadiene, 6140
Forrestin D, 7918
Neocynapanogenin C
3-O- β -D-oleandropyranoside, 15388
Taxezopidine F, 20785
Teixidol, 20905
- C₂₈H₄₀O₁₀S**
5 α ,17 α -Dihydroxy-6 α ,7 α -epoxy-1-oxo-3 β -O-sulfate-witha-24-enolide, 5879
- C₂₈H₄₀O₁₁**
7-Deacetylcanadensene, 4734
13-Deacetylcanadensene, 4735
5-Deacetylaxachitriene B, 4777
Picrasinoside B, 17321
Tasumatrol M, 20723
Taxchinin G, 20774
Taxuspine U, 20868
- C₂₈H₄₀O₁₂**
7,9-Deacetylbaecatin IV, 4723
1 β -Hydroxy-2 α ,7 β -deacetylbaecatin I, 9960
Taxacustin, 20739
Taxumairol B, 20822
Taxumairol W, 20836
- C₂₈H₄₀O₁₃**
(+)-5,5'-Dimethoxy-9-O- β -D-glucopyranosyl secoisolaricresinol, 6231
- C₂₈H₄₀O₁₈**
Arillatose C, 1686
Arillatose E, 1688
- C₂₈H₄₁O₁₁**
Dracunculifoside A, 6580
- C₂₈H₄₂Cl₂O₄**
Abamagenin, 1
- C₂₈H₄₂N₄O₆**
Kukoamine A, 12327
- C₂₈H₄₂O**
Isoergosterone, 11413
- C₂₈H₄₂O₃**
Axinysterol, 2046
5 α ,8 α -Epidioxergosta-6,9(11),22-trien-3 α -ol, 6903
5 α ,8 α -Epidioxergosta-6,9(11),22-trien-3 β -ol, 6904
Peperovulcanone A, 16907
- C₂₈H₄₂O₄**
5 α ,9 α -Epidioxyl-8 α ,14 α -epoxy-(22E)-ergosta-6,22-dien-3 β -ol, 6898
5 α ,9 α -Epidioxyl-3 β -hydroxy-(22E)-ergosta-7,22-dien-6-one, 6905
Tryptocalline A, 21996
- C₂₈H₄₂O₆**
Lucidenic acid LM₁, 13037
Methyl lucidenate Q, 14565
Periplocagenin, 16942
3 β ,6 β ,19 α -Trihydroxy-23-oxo-urs-12-en-28-oic acid, 21833
- C₂₈H₄₂O₇**
Caseamembrin B, 3259
Caudatin, 3329
Lucidenic acid G, 13031
Methyl butyric acid tussilaglin ester, 14188
- C₂₈H₄₂O₈**
(20R,22R)-5 α ,6 β ,14 α ,20,27-Pentahydroxy-1-oxowitha-24-enolide, 16858
Salvigreside D, 19215
- C₂₈H₄₂O₁₁**
Picrasinoside C, 17322
Taxane 5, 20752
- C₂₈H₄₂O₁₂**
Taxayuntin G, 20765
Taxumairol V, 20835
- C₂₈H₄₃N₅O₁₂S**
Ustiloxin, 22284
- C₂₈H₄₄N₂O₂**
Sarcovagine D, 19365
- C₂₈H₄₄N₄O₄**
Adouetine X, 648
Frangulanine, 7938
- C₂₈H₄₄O**
Ergosterol, 7250
Vitamin D₂, 22558
- C₂₈H₄₄O₂**

- 6,9-Epoxy-ergosta-7,22-dien-3-ol, 7093
 5,6-Epoxy-24(*R*)-methylcholesta-7,22-dien-3 β -ol, 7173
C₂₈H₄₄O₃
 3 β ,5 α -Dihydroxy-(22*E*)-ergosta-7,22-dien-6-one, 5884
 5 α ,8 α -Epidioxy-24(*R*)-methylcholesta-6,22-diene-3 β -ol, 6906
 Ergosterol peroxide, 7251
 24-Methyl-7-oxocholesta-5,24(28)-diene-3 β ,19-diol, 14643
C₂₈H₄₄O₄
 Bethogenin, 2324
 5 α ,9 α -Epidioxy-(22*E*)-ergosta-7,22-diene-3 β ,6 α -diol, 6899
 5 α ,9 α -Epidioxy-(22*E*)-ergosta-7,22-diene-3 β ,6 β -diol, 6900
 2-*n*-Heptadecy-5,7-dihydroxy-6,8-dimethyl chromone, 9391
 3 β ,5 α ,9 α -Trihydroxy-(22*E*)-ergosta-7,22-dien-6-one, 21729
C₂₈H₄₄O₅
 Polyporusterone D, 17668
 Polyporusterone E, 17669
 Polyporusterone G, 17671
 3 β ,5 α ,9 α ,14 β -Tetrahydroxy-(22*E*)-ergosta-7,22-dien-6-one, 21106
C₂₈H₄₄O₆
 Polyporusterone B, 17666
 Polyporusterone C, 17667
C₂₈H₄₄O₈
 Lemnabourside D, 12622
C₂₈H₄₄O₈S₂²⁻
 Lembehsterol B, 12614
C₂₈H₄₄O₉S
 Cilistol Y, 3648
C₂₈H₄₄O₁₂
 Picrasinoside G, 17325
C₂₈H₄₅NO₂
 Impranine, 11005
C₂₈H₄₅NO₅
 Holantosine B, 9580
 Holantosine D, 9582
C₂₈H₄₅NO₆
 Coumingidine, 4191
C₂₈H₄₅O₁₂S₃³⁻
 Lembehsterol A, 12613
C₂₈H₄₆N₂O
 Buxbodine D, 2821
C₂₈H₄₆O
 Brassicasterol, 2596
 Δ^7 -Campesterol, 3039
 5,6-Dihydroergosterol, 5608
 Ergost-7-en-3-one, 7249
 24-Methylcholesta-5,7-dien-3 β -ol, 14229
 24-Methylcholesta-5,24-dien-3 β -ol, 14230
 24-Methylcholesta-7,22-dien-3 β -ol, 14231
 24-Methylene cholesterol, 14350
C₂₈H₄₆O₂
 24-Methylcholesta-5,24(28)-diene-3 β ,19-diol, 14226
C₂₈H₄₆O₃
 (22*Z*,24*S*)-Cerevisterol, 3422
 3 β ,5 α -Dihydroxyergost-7-en-6-one, 5885
 24-Methylcholesta-5,24(28)-diene-3 β ,7 β ,19-triol, 14227
 24-Methylcholesta-9(11),24(28)-diene-3 β ,12 α ,19-triol, 14228
C₂₈H₄₆O₄
 26,27-Bisnor-8,14-dioxo- α -onocerin, 2487
 22*E*,24*R*-Ergosta-7,22-diene-3 β ,5 α ,6 β ,9 α -tetraol, 7245
 Octadecanyl-3-methoxy-4-hydroxy benzeneacrylate, 15954
 Octadecyl (*Z*)-ferulate, 15961
C₂₈H₄₆O₅
 Polyporusterone F, 17670
 Trihydroxybufosterocholenic acid, 21693
C₂₈H₄₆O₆
 Polyporusterone A, 17665
C₂₈H₄₆O₇
 Makisterone A, 13410
 Makisterone B, 13411
 Paristerone, 16671
 Periplocoside L, 16954
C₂₈H₄₆O₈
 20-Hydroxy 24-hydroxymethyl ecdysone, 10204
C₂₈H₄₆O₉
 Hythiemoside A, 10920
 Hythiemoside B, 10921
 Salvigreside B, 19213
C₂₈H₄₆O₁₀
 Salvigreside C, 19214
C₂₈H₄₇NO₂
 Dihydroimpranine, 5645
 Ningpeisine, 15613
 Puqietinone, 18208
C₂₈H₄₇NO₃
 Pingbeinine, 17381
 Valivine, 22326
C₂₈H₄₇NO₆
 Holantosine A, 9579
 Holantosine C, 9581
C₂₈H₄₇N₇O₇
 Glaucacyclopeptide A, 8508
C₂₈H₄₈N₂
 Cycloprotobuxine C₁, 4532
C₂₈H₄₈N₂O
 Cyclovirobuxine A, 4542
 Epipachysamine E, 6994
C₂₈H₄₈N₂O₂
 Cyclomicrophylline A, 4516
C₂₈H₄₈N₂O₃
 Sarcovagine A, 19362
C₂₈H₄₈O
 Campesterol, 3040
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 4 α -Methyl-cholest-7-en-3 β -ol, 14235
 4 α -Methyl-cholest-8-en-3 β -ol, 14236
 (24*S*)-Methylcholest-7-en-3 β -ol, 14237
 (24*R*)-Methyl cholest-8(14)-enol, 14238
 (24*S*)-Methyl cholest-8(14)-enol, 14239
 Pollinastanol, 17618
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 (24*S*)-Ergost-5-en-3 β ,7 β -diol, 7248
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 24-Methylcholest-24(28)-ene-3 β ,5 α ,6 β ,19-tetraol, 14234
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 24-Epicasterone, 6852
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C₂₈H₄₈O₆
 Brassinolide, 2598
C₂₈H₄₈O₁₀
 2,6-Diacetyl-3,4-dimethylbutyryl-1-*O*-octylglucopyranoside, 5333
C₂₈H₄₈O₁₄
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C₂₈H₅₀O₅
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C₂₈H₅₂O₁₁
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C₂₈H₅₄O₂

- Octacosan-4-olide, 15936
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Budmunchiamine L₅, 2701
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- C₂₉H₂₂O₆**
Acumitin, 594
- C₂₉H₂₂O₁₆**
Balanophotannin B, 2128
- C₂₉H₂₄O₅**
1,8-Bis(4-hydroxybenzyl)-4-methoxyphenanthrene-2,7-diol, 2461
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Gnetuhainin Q, 8891
- C₂₉H₂₄O₈**
Curtisian P, 4412
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- C₂₉H₂₄O₉**
Thelephantin A, 21293
- C₂₉H₂₄O₁₂**
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- C₂₉H₂₄O₁₆**
1-*O-p-(E)-Coumaroyl-4,6-(S)-HHDP-β-D-glucopyranose*, 4167
- C₂₉H₂₄O₁₇**
1-*O-(E)-Caffeoyl-4,6-(S)-HHDP-β-D-glucopyranose*, 2908
- C₂₉H₂₆N₄O₄**
1-(β-Carbolin-1-yl)-4-(4,8-dimethoxy-β-carbolin-1-yl)-2-methoxy-butan-1-one, 3160
- C₂₉H₂₆O₄**
5-Methoxy-3-(2-phenyl-*E*-ethenyl)-2,4-bis(4-hydroxybenzyl) phenol, 14056
- C₂₉H₂₆O₅**
1,6-Bis(4-hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol, 2460
1,3-Di(4-hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol, 5771
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3'-[γ-Hydroxymethyl-(*E*)-γ-methylallyl]-2,4,2',4'-tetrahydrochalcone 11'-*O*-coumarate, 10506
- C₂₉H₂₆O₁₀**
Rocaglamide derivative 9, 18889
- C₂₉H₂₆O₁₂**
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2''-*O*-Vanilloylvitexin, 22345
- C₂₉H₂₆O₁₅**
1,6-Digalloyl-2-cinnamoyl-glucose, 5514
- C₂₉H₂₆O₁₇**
1-*O-(E)-Caffeoyl-3,4-di-O-galloyl-β-D-glucopyranose*, 2897
1-*O-(E)-Caffeoyl-4,6-di-O-galloyl-β-D-glucopyranose*, 2898
3-*O-(E)-Caffeoyl-1,4-di-O-galloyl-β-D-glucopyranose*, 2899
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Picrasidine F, 17299
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Ipobscurine C, 11126
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- C₂₉H₂₈N₄**
Usambarensine, 22275
- C₂₉H₂₈O₅**
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Pieceid-2''-*O*-coumarate, 17352
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1-*O*-Acetyl-*N,N*-didemethylrocaglamide, 375
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Ipobscurine B, 11125
- C₂₉H₃₀O₅**
5-Hydroxy-6-isobutryl-8-methyl-8-(4-methylpent-3-enyl)-4-phenyl-2*H*-pyrano[2,3-*h*]chromen-2-one, 10241
- C₂₉H₃₀O₇**
Piperaduncin A, 17430
- C₂₉H₃₀O₈**
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- C₂₉H₃₀O₉**
5-Hydroxy-7-methoxy-3',4'-diacetoxy-6-(6,6-dimethyl-2-oxo-cyclohexylmethyl)flavone, 10397
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7-*O*-Methylaloeresin A, 14130
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(*E*)-3,5,4'-Trihydroxystilbene 3-*O-β-D*-(6-*O*-galloyl)glucopyranoside, 21850
- C₂₉H₃₀O₁₃**
Amarogentin, 1017
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- C₂₉H₃₀O₁₄**
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6'-*O-p*-Hydroxybenzoylcatalposide, 9821
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Oraposide, 16161
- C₂₉H₃₀O₁₇**
Luteolin 7-*O*-[2''-*O*-(4'''-*O*-acetyl- α -*L*-rhamnopyranosyl)]- β -*D*-glucuronopyranoside, 13138
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Hernandaline, 9440
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- Yuanhuafin, 22931
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- C₂₉H₃₂O₁₂**
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2'''-*O*-Acetyl-2''-*O*- α -*L*-rhamnopyranosylisovitexin, 493
4'''-*O*-Acetyl-2''-*O*- α -*L*-rhamnopyranosylisovitexin, 494
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2-Methyl-1,3,6-trihydroxy-9,10-anthraquinone 3-*O*-(α -*L*-rhamnopyranosyl-(1 \rightarrow 2)(6'-acetyl)- β -*D*-glucopyranoside), 14777
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2-Methyl-1,3,6-trihydroxyanthraquinone 3-*O*-(6'-*O*-acetyl)- α -*L*-rhamnosyl-(1 \rightarrow 2)- β -*D*-glucoside, 14776
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Isoscutellarein 7-*O*-(6'''-*O*-acetyl)- β -allopyranosyl(1''' \rightarrow 2''')- β -glucopyranoside, 11704
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10-Deacetyl-13-oxobaccatin III, 4762
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7-*O*-*p*-Hydroxybenzoylovatol 1-*O*-(6'-*O*-*p*-hydroxybenzoyl)- β -*D*-glucopyranoside, 9828
- C₂₉H₃₄O₁₄**
Derriscandenoside C, 5224
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- C₂₉H₃₄O₁₅**
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- C₂₉H₃₄O₁₆**
5-Hydroxy-7,4',5'-trimethoxyisoflavone 3'-*O*- α -*L*-arabinofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 10798
Ombuoside, 16093
- C₂₉H₃₄O₁₇**
Iristectorigenin B 7-glucosyl(1 \rightarrow 6)glucoside, 11180
Syringetin-3-*O*-robinobioside, 20564
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- Malvidin-3,5-diglucoside, 13460
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6 β -Cinnamoyl-7 β -hydroxyvouacapen-5 α -ol, 3708
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- C₂₉H₃₆O₉**
2 α -Acetoxy-9 α -benzoyloxy-5 α ,7 β ,10 β ,15-tetrahydroxy-11(15 \rightarrow 1)-abeotaxa-4(20),11-dien-13-one, 133
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14 β -Hydroxy-10-deacetyl baccatin III, 9962
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- C₂₉H₃₆O₁₂**
Micrandilactone A, 14832
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Woorenoside II, 22728
- C₂₉H₃₆O₁₄**
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- C₂₉H₃₆O₁₇**
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 Alangimarckine, 830
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- C₂₉H₃₈N₄O₄**
 Mucronine A, 15020
- C₂₉H₃₈N₄O₅**
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- C₂₉H₃₈O₄**
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- C₂₉H₃₈O₅**
 Kleinioxanthrone 2, 12234
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 2 α -Acetoxy-4 β -hydroxy-6 α -angeloyloxy-10 β -benzoyloxy-dauc-8-ene, 207
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- C₂₉H₃₈O₉**
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 7,13-Dideaceyl-9,10-debenzoyltaxchinin C, 5460
- C₂₉H₃₈O₁₁**
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- 2-(4-Hydroxyphenyl)ethyl 1-*O*- β -*D*-[5-*O*-(3,4,5-trimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 10622
 Isomucronulatol-7,2'-*O*-glucoside, 11545
- C₂₉H₃₈O₁₆**
 5'-Hydroxy-isomucronulatol-2',5'-*O*-glucoside, 10251
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- C₂₉H₃₈O₁₇**
 Albibrissinoside A, 855
- C₂₉H₃₉NO₆**
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 2 α ,3 β -Dihydroxy-28-norurs-12,17,19(20),21-tetraen-23-oic acid, 6055
 8 α -Hydroxyabda-13(16),14-dien-19-yl-(*Z*)-4-hydroxycinnamate, 10300
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 1 α -(α -Methyl)-butanoyl-2 α ,15-diacetoxy-4 β -hydroxy-9 β -(β -)furoyloxy- β -dihydroagarofuran, 14164
 Neocynanversicoside, 15387
- C₂₉H₄₀O₁₅**
 1 β ,2 β ,3 α ,5 α ,7 β ,8 β ,11-Heptaacetoxy-dihydroagarofuran, 9367
- C₂₉H₄₀O₁₆**
 6-*O*-(4''-*O*- α -*L*-Rhamnopyranosyl) vanilloyl-ajugol, 18735
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 17 β -Hydroxy-3,11,16-trioxo-28-norolean-12-ene, 10813
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 Siraitic acid B, 19972
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Antialloside, 1374
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Tangshenoside I, 20672
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- C₂₉H₄₄NO**
(22*E*,24*R*)-3 α -Ureido-ergosta-4,6,8(14),22-tetraene, 22249
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- C₂₉H₄₄O₂**
Koelpinin C, 12245
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- C₂₉H₄₅NO₈**
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Epipachysamine B, 6991
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- C₃₀H₃₂O₁₃**
 Benzoyl-oxypaeoniflorin, 2263
- C₃₀H₃₂O₁₈**
 Kaempferol-3-*O*-(2''-*O*- α -rhamnosyl-6''-*O*-malonyl)- β -glucoside, 12088
- C₃₀H₃₂O₁₉**
 Quercetin-3-*O*-(2''-*O*- α -rhamnosyl-6''-*O*-malonyl)- β -glucoside, 18389
- C₃₀H₃₃NO₈**
 3'-Hydroxy-8 β -ethyl ether-rocaglic acid methylamide, 10098
 Neoharringtonine, 15403
 Thaliadine, 21238
- C₃₀H₃₃O₁₉**
 Delphinidin-3-*O*-(2''-*O*- α -rhamnosyl-6''-*O*-malonyl)- β -glucoside, 5030
- C₃₀H₃₃O₂₀⁺**
 Delphinidin-3-*O*-(β -*D*-glucopyranoside)-5-*O*-(6-*O*-malonyl-(β -*D*-glucopyranoside), 5025
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- C₃₀H₃₄BrN₅O₁₅**
 Neosurugatoxin, 15461
- C₃₀H₃₄N₂O₅**
 Rauvomitin, 18557
- C₃₀H₃₄N₂O₁₉**
 Amaranthin, 1013
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- C₃₀H₃₄N₄**
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- C₃₀H₃₄O₄**
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- C₃₀H₃₄O₅**
 5,7-Dihydroxy-6-(2-methylbutanoyl)-8-[(*E*)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2*H*-chromen-2-one, 6018
 5,7-Dihydroxy-6-(3-methylbutanoyl)-8-[(*E*)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2*H*-chromen-2-one, 6019
 5,7-Dihydroxy-8-(2-methylbutanoyl)-6-[(*E*)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2*H*-chromen-2-one, 6020

- 5,7-Dihydroxy-8-(3-methylbutanoyl)-6-[(*E*)-3,7-dimethylocta-2,6-dienyl]-4-phenyl-2*H*-chrome *n*-2-one, 6021
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- C₃₀H₃₄O₆**
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(2*S*)-5,2',4'-Trihydroxy-8,5'-di(3-methylbut-2-enyl)-6,7-(3,3-dimethylpyrano)flavanone, 21718
- C₃₀H₃₄O₇**
Broussoflavanol C, 2633
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- C₃₀H₃₄O₈**
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- C₃₀H₃₄O₉**
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- C₃₀H₃₄O₁₀**
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- C₃₀H₃₄O₁₅**
(6-*O*-(*E*)-*p*-Coumaroyl)- β -*D*-fructofuranosyl-(2 \rightarrow 1)-(6-*O*-(*E*)-*p*-coumaroyl)- α -*D*-glucopyranoside, 4158
Lapathoside D, 12508
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- C₃₀H₃₄O₁₇**
2''-*O*-Acetyl-3'-*O*-methylrutin, 466
6-Hydroxyluteolin 4'-methyl ether 7-*O*- α -rhamnopyranosyl(1''' \rightarrow 2'') [6''-*O*-acetyl- β -glucopyranoside], 10356
- C₃₀H₃₅NO₁₀**
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- C₃₀H₃₅NO₁₆**
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- C₃₀H₃₆N₂O₁₈**
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- C₃₀H₃₆O₄**
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- Sophoradin, 20082
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- C₃₀H₃₆O₆**
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- C₃₀H₃₆O₇**
Cynaphylloside, 4555
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11 β ,12 α -Diacetoxyneoteceleanin, 5316
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11 β ,12 α -Diacetoxy-14 β ,15 β -epoxyneoteceleanin, 5299
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- C₃₀H₃₆O₁₀**
11 β ,12 α -Diacetoxy-1-deoxo-14 β ,15 β -epoxy-3 β -hydroxy-2-oxo-neoteceleanin, 5291
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- C₃₀H₃₆O₁₁**
2 β -(β -*D*-glucopyranosyloxy)-8 β -(4''-methoxyphenylacetoxyl)-guaia-4(15),10(14),11(13)-trien-1 α ,5 α ,6 β ,7 α H-12,6-olide, 8706
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11-Oxocneorin G, 16301
- C₃₀H₃₆O₁₂**
14-*O*-Methylacetal-15-*O*-[6'-(*p*-hydroxyphenylacetyl)]- β -*D*-glucopyranosylurospermal A, 14110
- C₃₀H₃₆O₁₃**
Oregonin peracetate, 16175
- C₃₀H₃₆O₁₄**
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7-*O*- α -*D*-Glucopyranosyl-3,5-dihydroxy-3'-(4''-acetoxyl-3''-methylbutyl)-6,4'-dimethoxyflavone, 8617
Masutakeside I, 13592
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 β -*D*-[5-*O*-(3,4-Dimethoxybenzoyl)]-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl, 6206
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Tenuifoliside B, 20956
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Lathyril-3,15-diacetate-5-nicotinate, 12545
- C₃₀H₃₇NO₉**
Nicotaxine, 15524
- C₃₀H₃₇NO₁₁**
3 α -(3,4,5-Trimethoxy-cinnamoyloxy)-7 β -(3,4,5-trimethoxybenzoyloxy)-6 α -hydroxy-tropane, 21903
- C₃₀H₃₇N₅O₅**
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- C₃₀H₃₈O₇**
Kidjolanin, 12224
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7 α ,12 α -Diacetoxy-11 β -hydroxyneoteceleanin, 5311
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7 α ,12 α -Diacetoxy-14 β ,15 β -epoxy-11 β -hydroxyneoteceleanin, 5298
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- Toosendanin, 21448
- C₃₀H₃₈O₁₂**
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2 α ,9 β -Di-(β -furanonyloxy)-4 β ,6 β ,15-trihydroxy-1 α -(2)-methylbutanoyloxy-dihydro- β -agarofuran, 5508
1 α ,6 β ,8 α ,13-Tetraacetoxy-9 α -benzoyloxy-2 α -hydroxy- β -dihydroagarofuran, 21025
- C₃₀H₃₈O₁₃**
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- C₃₀H₃₉ClO₁₄**
Gemmaocolide A, 8264
- C₃₀H₃₉O₃**
2 α ,7 β ,13(S)-Trihydroxystemodane, 21846
- C₃₀H₄₀N₄O₄**
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- C₃₀H₄₀N₄O₅**
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- C₃₀H₄₀O₆**
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3 β ,5 α ,7 β ,8 α ,15 β -Pentaacetoxyjatropa-6(17),11E-dien-9,14-dione, 16820
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- C₃₀H₄₁NO₆**
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- C₃₀H₄₂O₆**
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- C₃₀H₄₆N₂O**
Epipachysamine D, 6993
- C₃₀H₄₆N₂O₂**
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- C₃₀H₄₆O**
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- C₃₀H₄₆O₂**
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3,11-Dioxo-olean-12-ene, 6475
3,22-Dioxo-20-taraxastene, 6477
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23-Hydroxy-5 α -lanosta-7,9(11),24-triene-3-one, 10310
11-Keto- α -amyrenone, 12197
3-Oxolup-20(29)-en-30-al, 16373
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- C₃₀H₄₆O₃**
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3 β -Hydroxylanosta-7,9(11),24-trien-21-oic acid, 10311
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(24Z)-26-Hydroxy-3-oxo-7,24-tirucalladien-21-al, 10584
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3-Oxo-24-cycloarten-21-oic acid, 16305
3-Oxo-olean-12-en-28-oic acid, 16402
3-Oxo-olean-12-en-29-oic acid, 16403
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- C₃₀H₄₆O₄**
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3 β -Hydroxy-29(or 30)-al-olean-12-en-28-oic acid, 9775
12 α -Hydroxycoccinic acid, 9928
12 β -Hydroxycoccinic acid, 9929
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3-Hydroxy-2-oxo-3-friedelen-20 α -carboxylic acid, 10566
(25R)-3 α -Hydroxy-23-oxo-9,16-lanostadien-26-oic acid, 10571
(25R)-3 β -Hydroxy-23-oxo-9,16-lanostadien-26-oic acid, 10572
22 α -Hydroxy-3-oxoolean-12-en-29-oic acid, 10578
3 α -Hydroxy-6-oxo-7,24Z-tirucalladien-26-oic acid, 10585
3 α -Hydroxy-7-oxo-8,24Z-tirucalladien-26-oic acid, 10586
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3-Oxo-23-dihydroxycycloart-24-en-26-oic acid, 16317
16-Oxo-3 α ,21 β -dihydroxyserrat-14-en-24-al, 16321
(24Z)-3-Oxo-12 α -hydroxylanosta-8,24-dien-26-oic acid, 16352
3-Oxo-19 α -hydroxyurs-12-en-28-oic acid, 16358
11-Oxo-kansenonol, 16365
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- Pinicolic acid E, 17388
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 (24*E*)-3,4-Secodammara-4(28),20,24-trien-3,26-dioic acid, 19609
 24(*E*)-3,4-Seco-9*βH*-lanosta-4(28),7,24-triene-3,26-dioic acid, 19622
 Semialatic acid, 19693
 4,4,8-Trimethyl-3*β*,7*α*,23-trihydroxy-chola-14,24-dien-21-oic acid-21,23-lactone, 21977
- C₃₀H₄₆O₅**
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 2*α*,3*α*-Dihydroxy-19-oxo-18,19-seco-urs-11,13(18)-dien-28-oic acid, 6068
 19,24-Dihydroxyurs-12-en-3-one-28-oic acid, 6177
 3,8-Dioxo-7*β*-hydroxy-7,9-cyclo-7,8-seco-24Z-tirucalladien-26-oic acid, 6470
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 3-Epi-isomasticadienolalic acid, 6938
 14*β*,15*β*-Epoxy-3*β*-hydroxy-9-oxo-11(10→8)-abeolanosta-24-*trans*-en-26-oic acid, 7126
 14*β*,15*β*-Epoxy-3*α*-hydroxy-9-oxo-11(10→8)-abeolanost-24-*trans*-en-26-oic acid, 7127
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- C₃₀H₄₆O₆**
 20-*O*-(Decanoyl)ingenol, 4838
 2*α*,19*α*-Dihydroxy-3-oxo-12-ursen-28-oic acid, 6070
 3*β*,19*α*-Dihydroxy-6-oxo-urs-12-en-23-ol-28-oic acid, 6071
 3*β*,19*α*-Dihydroxyurs-12-en-24,28-dioic acid, 6175
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 23-Nor-24-esomethylene-3,6,19-thihydroxyurs-12-en-28 oic acid, 15747
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 3*β*,19*α*,23-Trihydroxy-6-oxo-olean-12-en-28-oic acid, 21828
 1*β*,2*α*,19*α*-Trihydroxy-3-oxo-12-ursen-28-oic acid, 21831
 2*α*,3*α*,19*α*-Trihydroxy-11-oxo-urs-12-en-28-oic acid, 21832
- C₃₀H₄₆O₇**
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 Jaligonic acid, 11812
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 Wallichoside, 22629
- C₃₀H₄₆O₈**
 Cucurbitacin H, 4322
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 17*β*-Neriifolin, 15494
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- C₃₀H₄₆O₉**
 Cymarol, 4548
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- C₃₀H₄₆O₁₀**
 Bipindalosite, 2399
- C₃₀H₄₆O₁₁**
 9*α*,10*β*-Diacetoxy-13*α*-hydroxy-5*α*-*O*-(*β*-*D*-glucopyranosyl)taxa-4(20),11-diene, 5304
- C₃₀H₄₆O₁₂**
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- C₃₀H₄₆O₁₃**
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- C₃₀H₄₆O₁₆S₂**
 Atractyloside, 1972
- C₃₀H₄₆O₂₀**
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- C₃₀H₄₇NO₆**
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- C₃₀H₄₈N₂O₂**
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- C₃₀H₄₈O**
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 3*β*-Hydroxy-olean-9(11),12-diene, 10549
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- C₃₀H₄₈O₂**
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- 20*R*,24*R*-Epoxy-25-dammaren-3-one, 7065
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 28-Hydroxy-*D*-friedo-olean-14-en-3-one, 10129
 3 β -Hydroxy-olean-12-en-28-al, 10334
 3 β -Hydroxy-lup-20(29)-en-30-al, 10340
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 3 β -Hydroxy-urs-12-en-28-al, 10350
 21 β -Hydroxyserrat-14-en-3-one, 10702
 3 β -Hydroxyserrat-14-en-21-one, 10703
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 5 α -Lanosta-7,9(11),24-triene-3 α ,23-diol, 12487
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 Mollugogenol B, 14903
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 7-Oxoismultiflorenol, 16362
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- C₃₀H₄₈O₃**
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 Anwuweizic acid, 1467
 Betulinic acid, 2334
 α -Boswellic acid, 2567
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 20(*R*)-21,24-Cyclo-3 β ,25-dihydroxyldammara-23(24)-en-21-one, 4487
 11-Deoxyglycyrrhetic acid, 5144
 3 β ,15 α -Dihydroxy-olean-12-en-16-one, 6061
 3 β ,16 β -Dihydroxy-olean-12-en-15-one, 6062
- 3 β ,21 β -Dihydroxyserrat-14-en-16-one, 6122
 (24*Z*)-3 β ,27-Dihydroxy-7,24-tirucalladien-21-al, 6152
 3 β ,22*S*-Dihydroxy-tirucalla-7,24-dien-23-one, 6154
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 8 α -Hydroxyferman-25,7 β -olide, 10120
 3 β -Hydroxylupane-13 β ,28-lactone, 10339
 3 α -Hydroxy-lup-20(29)-en-24-oic acid, 10341
 3 β -Hydroxy-masticadienolic acid, 10363
 3 α -Hydroxymasticadienonic acid, 10364
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- C₃₀H₄₈O₄**
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- 6 β -Acetoxy-(22*E*)-ergosta-7,22-diene-3 β ,5 α -diol, 192
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 3-Deoxycimigenol, 5162
 3 β ,23(*R* or *S*)-dihydroxycycloart-24-en-26-oic acid, 5799
 2 α ,3 α -Dihydroxylup-20(29)-en-28-oic acid, 5953
 2 α ,3 α -Dihydroxyolean-12-en-28-oic acid, 6058
 2 α ,3 β -Dihydroxyolean-12-en-28-oic acid, 6059
 3 β ,22 β -Dihydroxyolean-12-en-29-oic acid, 6060
 3 α ,21 α -Dihydroxyserrat-14-en-24-oic acid, 6117
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 3 β ,23-dihydroxycycloart-24-en-26-oic acid, 6966
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 24-Methyl-7 β -acetoxycholesta-5,24(28)-diene-3 β ,19-diol, 14114
 2-*n*-Nonadecyl-5,7-dihydroxy-6,8-dimethyl chromone, 15674
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- 16-Oxolycoclavanol, 16377
 16-Oxoserratriol, 16421
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- C₃₀H₄₈O₅**
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 2*α*,6*α*-Dihydroxybetulinic acid, 5773
 2*α*,19*α*-Dihydroxyursolic acid, 6178
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- C₃₀H₄₈O₆**
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 2*α*,3*α*,23,29-Tetrahydroxyolean-12-en-28-oic acid, 21144
 2*α*,3*α*,11*α*,19*α*-Tetrahydroxy-urs-12-en-28-oic acid, 21169
 1*β*,2*α*,3*α*,19*α*-Tetrahydroxyurs-12-en-28-oic acid, 21170
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- C₃₀H₄₈O₇**
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- C₃₀H₄₉NO₈**
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- C₃₀H₅₀**
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- C₃₁H₄₀O₁₂**
13-*O*-Deacetyl taxumairol Z, 4785
9(*βH*)-9-Dihydro-19-acetoxy-10-deacetyl baccatin III, 5538
- C₃₁H₄₀O₁₃**
Hydrangenoside A, 9701
- C₃₁H₄₀O₁₄**
Styraxlignolide A, 20422
- C₃₁H₄₀O₁₅**
Cistanoside D, 3754
Epimeredinoside A, 6965
2-(3-Hydroxy-4-methoxyphenyl) ethyl *O*-*α*-*L*-rhamnopyranosyl-(1→3)-(4-*O*-*cis*-feruloyl)-*β*-*D*-glucopyranoside, 10443
2-(3-Hydroxy-4-methoxyphenyl)-ethyl-1-*O*-*α*-*L*-rhamnosyl-(1→3)-*β*-*D*-(4-feruloyl)-glucoside, 10444
Juncenolide D, 11952
Martynoside, 13580
Isomartynoside, 11529
- C₃₁H₄₀O₁₆**
Hemiphroside A, 9347
Hemiphroside C, 9348
Illicifolioside A, 10988
6-*O*-*α*-*L*-(2"-*O*-*trans*-*p*-Methoxycinnamoyl) rhamnopyranosylcatalpol, 13892
6-*O*-*α*-*L*-(3"-*O*-*trans*-*p*-Methoxycinnamoyl) rhamnopyranosylcatalpol, 13893
Plantainoside E, 17511
Plantainoside F, 17512
- C₃₁H₄₁ClO₁₁**
Taxuchin B, 20818
- C₃₁H₄₁NO₆**
Franchetine, 7935
Franchitine, 7936
- C₃₁H₄₁NO₁₀**
Polyschistine C, 17674
- C₃₁H₄₁NO₁₁**
(*E*)-Hordenine-(6-*O*-cinnamoyl)-*β*-*D*-glucopyranosyl-(1→3)-*α*-*L*-rhamnopyranoside, 9647
- C₃₁H₄₁NO₁₂**
(*E*)-Hordenine-[6-*O*-(4-hydroxycinnamoyl)-*β*-*D*-glucopyranosyl]-(1→3)-*α*-*L*-rhamnopyranoside, 9648
- C₃₁H₄₁NO₁₅**
Aristomanoside, 1728
- C₃₁H₄₁N₅O₅**
Ergocorminine, 7233
- C₃₁H₄₂N₄O₄**
Adouetine Y', 650
Frangufoline, 7937
Scutianine C, 19591
Waltherine A, 22632
- C₃₁H₄₂O₅**
Kleinioxanthrone 3, 12235
- C₃₁H₄₂O₇**
7*β*-Hydroxy-3,11,15,23-tetraoxolanosta-8,20*E*(22)-dien-26-oic acid methyl ester, 10759
Methyl ganoderate H, 14458

- C₃₁H₄₂O₈**
Neocucurbitacin A, 15376
- C₃₁H₄₂O₉**
Ardisiaquinone D, 1632
- C₃₁H₄₂O₁₀**
Asclepin, 1844
Physachenolide C, 17234
- C₃₁H₄₂O₁₁**
Ajugacumbin C, 790
Ajugamarin A₂, 802
- C₃₁H₄₂O₁₂**
Ajugacumbin E, 792
Clerodendrin A, 3837
- C₃₁H₄₂O₁₃**
Ligurobustoside O, 12824
- C₃₁H₄₂O₁₅**
(*S*)-4-(4-Hydroxyphenyl)-2-butanol 2-*O*-[6-*O*-(3,5-dimethoxy-4-*O*-*α*-*L*-rhamnopyranosyl-galloyl)-*β*-*D*-glucopyranoside], 10611
(-)-Isolariciresinol-3*α*-*O*-*β*-apiofuranosyl-(1→2)-*O*-*β*-glucopyranoside, 11478
Symplolignanose A, 20546
- C₃₁H₄₂O₁₆**
Yemuoside YM₂, 22885
Yemuoside YM₆, 22886
- C₃₁H₄₂O₁₇**
Isonuezhenide, 11565
(*8E*)-Nüzhenide, 15873
(*8Z*)-Nüzhenide, 15874
- C₃₁H₄₂O₁₈**
Neonuezhenide, 15439
- C₃₁H₄₃NO₇**
N-Ethyl-1*α*-hydroxy-17-veratrolydictizine, 7447
- C₃₁H₄₃NO₁₀**
Benzoylmesaconine, 2247
- C₃₁H₄₄N₂O₈**
Delectine, 5005
Isodelectine, 11372
- C₃₁H₄₄N₄O₅**
Pandamine, 16602
Sanjoinine F, 19292
Sanjoinine G₁, 19293
- C₃₁H₄₄O₄**
Papuaforin D, 16632
- C₃₁H₄₄O₆**
Brasiliensic acid, 2590
Glyuranolide, 8855
- C₃₁H₄₄O₇**
Methyl ganoderate I, 14459
- C₃₁H₄₄O₉**
Methyl ganoderate AP, 14456
3*β*-Oxo-formyl-7*β*,12*β*-dihydroxy-5*α*-lanost-11,15,23-trioxo-8-en(*E*)-26-oic acid, 16335
- C₃₁H₄₄O₁₁**
Ajugamacrin B, 800
Ajugamarin B₂, 803
1*α*-(*α*-Methyl)-butanoyl-2*α*-(*α*-methyl)-propynoxy-4*β*-hydroxy-9*β*-(*β*-)furoxyloxy-15-acetoxy-*β*-dihydroagarofuran, 14168
- C₃₁H₄₄O₁₂**
16*β*-Acetoxy-strophanthidin-3-*β*-*D*-*O*-rhamnoside, 282
Ligurobustoside C, 12819
Ligurobustoside E, 12820
- C₃₁H₄₄O₁₃**
Ligurobustoside I, 12821
- C₃₁H₄₄O₁₆**
2',3',4',3"-Tetramethoxy-1,3-diphenylpropane
5',4"-di-*O*-*β*-*D*-glucopyranoside, 21179
- C₃₁H₄₅NO₈**
Auriculine, 2015
Merresectine B, 13786
- C₃₁H₄₆N₂O**
Spiropachysine, 20205
- C₃₁H₄₆O₂**
Lucialdehyde A, 13019
Vitamin K₁, 22562
- C₃₁H₄₆O₃**
Dehydroeburiconic acid, 4910
- C₃₁H₄₆O₄**
26,27-Dihydroxy-lanosta-7,9(11),24-trien-3,16-dione, 5946
Fomlactone C, 7878
Methyl
(24*E*)-3*α*,16*α*,23*α*(=16*R*,23*R*)-trihydroxy-epoxy-17,14-friedolan-8,14,24-trien-26-oate, 14407
- C₃₁H₄₆O₅**
Polyporenic acid C, 17664
Poricoic acid C, 17724
- C₃₁H₄₆O₅**
Poricoic acid A, 17722
Propapyriogenin A₁, 17917
- C₃₁H₄₆O₆**
3*β*-Methoxy-16*α*-hydroxyursa-12,19(29)-dien-27,28-dioic acid, 13971
Methyl (24*E*)-9*α*,23*α*-dihydroxy-3,15-dioxo-17,15-friedo-lanostan-8(14),24-dien-26-oate, 14298
Poricoic acid D, 17725
- C₃₁H₄₆O₇**
Acinospesigenin B, 547
8*β*,9*α*-Dihydroganoderic acid J methyl ester, 5620
Methyl-7-epiganoderate, 14397
- C₃₁H₄₆O₈**
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxy-18,19-epoxy-6-hydroxy-18-butanoyloxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene, 184
Acinospesigenin C, 548
Caseamembrin A, 3258
2*α*-(*α*-Methylbutyryl)-oxy-5*α*,7*β*,10*β*-triacetoxy-4(20),11-taxadiene, 14199
Methyl ganoderate I, 14460
2*α*,5*α*,10*β*-Triacetoxy-14*β*-((*S*)2-methyl)butyryloxytaxa-4(20),11-diene, 21529
- C₃₁H₄₆O₉**
22-Acetylcasterone, 346
Ajugalide E, 799
Caseamembrin C, 3260
5*α*-Hydroxy-2*α*-(*α*-methylbutyryl)-oxy-7*β*,9*α*,10*β*-triacetoxy-4(20),11-taxadiene, 10475
9*α*-Hydroxy-14*β*-(2-methylbutyryl)-oxy-2*α*,5*α*,10*β*-tri acetoxytaxa-4(20),11-diene, 10476
Taiwanxan, 20647
Yunnanxane, 22951
- C₃₁H₄₈N₂O₆**
Epoxynepakistamine A, 7177
- C₃₁H₄₈O**
24-Methylenecycloartenone, 14356
- C₃₁H₄₈O₃**
Ambonic acid, 1025
Dehydroeburicoic acid, 4909
Fomefficinic acid A, 7856
3*α*-Hydroxy-11*α*,12*α*-epoxy-oleanane-28,13*β*-olide, 10089
3*β*-Hydroxy-11*α*,12*α*-epoxy-oleanane-28,13*β*-olide, 10090
Koelpinin B, 12244
- C₃₁H₄₈O₄**
Dehydrotumulosic acid, 4978
3-Epidehydrotumulosic acid, 6889
Fomefficinic acid B, 7857
Fomefficinic acid D, 7858
Fomlactone B, 7877
6*α*-Hydroxylup-20(29)-en-3-oxo-28-oic acid, 10345
Macedonic acid, 13286
Methyl (24*E*)-3*α*,23*α*(=*R*)-dihydroxy-17,14-friedo-lanostan-8,14,24-trien-26-oate, 14302
Methyl (24*E*)-3*α*,23-dihydroxy-17,14-friedolanstan-8,14,24-trien-26-oate, 14303
Methyl 2*α*,3*α*-dihydroxyursa-12,20(30)-dien-28-oate, 14306
Methylglycyrrhetate, 14474
Methyl (25*R*)-3*β*-hydroxy-23-oxo-9,16-lanostadien-26-oate, 14518
Methyl(24*Z*)-26-hydroxy-3-oxo-7,24-tirucalladienoate, 14520
Methyl kulonate, 14544

- Quadrangularic acid E, 18294
Regelin, 18578
Regelin D, 18580
24(*E*)-3,4-Secodammara-4(28),20,24-trien-3,26-dioic acid-3-methylester, 19610
- C₃₁H₄₈O₅**
25-Hydroxy-3-epidehydrotumulolic acid, 10070
Methyl (24*E*)-3 α ,23 α -dihydroxy-15-oxo-17,14-friedo-lanostan-8(14),24-dien-26-oate, 14315
Methyl 16-epiquillate, 14401
Methyl 18 α -hydroxyglycyrhetate, 14507
Methyl-24-hydroxyglycyrhetate, 14508
Methyl (13*S*,14*R*)2 α ,3 α ,24-trihydroxy-13,14-cyclo-oleana-11-en-28-oate, 14783
Methyl (12*R*,13*S*)2 α ,3 α ,24-trihydroxy-12,13-cyclo-taraxer-14-en-28-oate, 14784
Methyl 2 α ,3 α ,24-trihydroxyoleana-11,13(18)-dien-28-oate, 14785
Methyl 2 α ,3 α ,24-trihydroxyursa-12,20(30)-dien-28-oate, 14788
Poricoic acid H, 17728
Regelinol, 18583
- C₃₁H₄₈O₆**
Lycerunic ketone A, 13175
Lycerunic ketone B, 13176
Methyl (24*E*)-3 α ,23 α -dihydroxy-8 α ,9 α -epoxy-15-oxo-17,14-friedo-lanostan-24-en-26-oate, 14299
Methyl 11-oxoasiatate, 14641
Phytolaccagenic acid, 17266
Pseudolarolide C, 18045
- C₃₁H₄₈O₇**
Phytolaccagenin, 17267
- C₃₁H₄₈O₁₂**
Cussoracoside B, 4424
Cussoracoside D, 4426
- C₃₁H₄₉N₃O₅**
Beauverilide A, 2189
- C₃₁H₅₀O**
Agrostophyllinone, 767
24-Methylene cycloartanone, 14354
3-Oxo-24-methylenecycloartane, 16380
- C₃₁H₅₀O₂**
Eburical, 6672
3 β -Hydroxy-lanost-9(11),24(25)-dien-26-oic acid, 10312
21 α -Methoxyserrat-13-en-3-one, 14091
12-Oxoarundoin, 16294
25(*R*)-3-Oxo-24-methylenecycloartan-26-ol, 16381
- C₃₁H₅₀O₃**
Ambolic acid, 1024
Eburicoic acid, 6674
- 13 α ,14 α -Epoxy-21 α -methoxyserratan-3-one, 7169
3 β -Hydroxy-5 α -cycloart-24(31)-en-28-oic acid, 9952
Lithocarpolone, 12922
Marianine, 13563
Methylbetulinatate, 14158
Methyl oleanolate, 14634
Methyl trametenolate, 14766
Methyl ursolate, 14803
- C₃₁H₅₀O₄**
Hederagenin methyl ester, 9267
Machaerinic acid methyl ester, 13289
Methyl 2 α ,3 α -dihydroxyursa-12-en-28-oate, 14307
Methyl 3-epimaslinatate, 14398
Methyl-24-hydroxy-11-deoxoglycyrhetate, 14501
Methyl 2 α -hydroxyursa-28-oate, 14512
Methyl maslinatate, 14579
Palmitoylpterosin A, 16565
Regelindiol A, 18581
Regelindiol B, 18582
3 α -Sulfurenic acid, 20480
3 β -Sulphurenic acid, 20483
Triptodihydroxy acid methyl ester, 21997
Tumulolic acid, 22108
- C₃₁H₅₀O₅**
15-*O*-Methylcimigenol, 14242
25-*O*-Methylcimigenol, 14243
Methyl euscaphate, 14440
Methyl tormentate, 14765
Methyl (24*E*)-3 α ,9,23-trihydroxy-17,14-friedo-lanostan-14,24-dien-26-oate, 14781
Methyl 2 α ,3 α ,23-trihydroxyolean-12-en-28-oate, 14786
Methyl 2 α ,3 α ,24-trihydroxyolean-12-en-28-oate, 14787
2 α ,3 α ,24-Trihydroxyursa-12-en-28-oate, 21764
- C₃₁H₅₀O₆**
Kudzusapogenol B methyl ester, 12308
Methyl 11 α -hydroxytormentate, 14523
2 α ,3 β ,7 β -Trihydroxy-11 α -methoxyurs-12-en-28-oic acid, 21789
- C₃₁H₅₀O₈**
5-Ene-methyl-7,12-didehydroxy-cholate-3-*O*- β -*D*-glucopyranoside, 6798
- C₃₁H₅₀O₁₁**
Cussoracoside F, 4428
- C₃₁H₅₀O₁₂**
Crenulatoside D, 4231
- C₃₁H₅₀O₁₈**
Zizyvoside II, 23020
- C₃₁H₅₂**
21-Methyldammara-18(28),22(29)-diene, 14281
- C₃₁H₅₂N₂O₂**
N-Tigloylbuxahyrcanine, 21374
- C₃₁H₅₂N₂O₃**
Pachysandrine B, 16506
- C₃₁H₅₂O**
Agrostophyllinol, 766
Arundoin, 1823
Cycloartenone, 4474
Cyclolaudenol, 4503
Cyclopholidonol, 4529
Cylindrin, 4546
Eburicol, 6675
Euphorbol, 7618
24-Methylene cycloartan-3 β -ol, 14352
24-Methylene lanost-8-enol, 14387
Miliacin, 14851
Sinetirucallol, 19932
- C₃₁H₅₂O₂**
Dryocrassyl formate, 6612
Eburicodiol, 6673
3 β -Methoxyserrat-13-en-21 β -ol, 14090
24-Methylene cycloartan-3 β ,21-diol, 14351
14-Methyl-24-methylene-dihydromangiferodiol, 14594
31-Norcycloartanyl acetate, 15730
 β -Sitosteryl acetate, 19994
- C₃₁H₅₂O₃**
13 α ,14 α -Epoxy-3 β -methoxyserratan-21 β -ol, 7166
13 β ,14 β -Epoxy-3 β -methoxyserratan-21 β -ol, 7167
14 β ,15 β -Epoxy-3 β -methoxyserratan-21 β -ol, 7168
4'-Hydroxy-*cis*-cinnamic acid docosyl ester, 9909
Lithocarpdiol, 12921
3 β -Methoxy-9 β ,19-cyclolanost-23(*E*)-en-25,26-diol, 13900
Soyasapogenol D, 20119
- C₃₁H₅₂O₄**
(20*S*)-3 β -Acetoxy-20-hydroperoxy-30-norlupane, 202
Docosyl caffeate, 6539
- C₃₁H₅₂O₆**
21-*O*-Methyl toosendanpentol, 14764
- C₃₁H₅₂O₈**
Drevogenin I, 6602
- C₃₁H₅₂O₁₇**
Pipeloside A, 17428
- C₃₁H₅₃NO₃**
Ethyl *N*-docosanoylanthranilate, 7435
- C₃₁H₅₄O**

- Cycloeucalenol, 4491
- C₃₁H₅₄O₂**
3 α -Hydroxy-4-methoxyfilicane, 10402
- C₃₁H₅₄O₅**
Foveolin B, 7932
- C₃₁H₅₄O₁₂**
Cuscutic resinoid A, 4418
- C₃₁H₅₆O**
Cycloartanol, 4468
- C₃₁H₅₆O₃**
Thamnolin, 21272
- C₃₁H₅₈O₁₄**
1'-*O*-Palmitoyl-3'-*O*-(6-*O*- α -*D*-galactopyranosyl- β -*D*-galactopyranosyl)glycerol, 16563
- C₃₁H₆₀O**
(2*E*)-2-Ethyl-2-nonacosenal, 7465
- C₃₁H₆₂O**
7-Methyl-4-triacontanone, 14769
Palmitone, 16562
- C₃₁H₆₂O₂**
Hentriacontic acid, 9366
n-Hexacosanyl isovalerate, 9483
Methyl triacontanate, 14768
- C₃₁H₆₄**
Hentriacontane, 9363
- C₃₁H₆₄O**
Hentriacontanol-6, 9364
- C₃₂H₂₀O₉**
Thelephantin M, 21305
- C₃₂H₂₂MgO₁₄**
Cochinchinol A, 3868
- C₃₂H₂₂O₈**
Thelephantin J, 21302
- C₃₂H₂₂O₁₀**
Cryptomerin B, 4286
7,7''-Dimethoxyamentoflavone, 6199
4',7-Dimethylamentoflavone, 6314
7,7''-Di-*O*-methylcupressu-flavone, 6333
Ginkgetin, 8401
Isoginkgetin, 11439
Podocarpusflavone B, 17589
Thelephantin G, 21299
- C₃₂H₂₂O₁₁**
5'-Methoxybilobetin, 13858
- C₃₂H₂₄O₅**
Dracorubin, 6579
- C₃₂H₂₄O₁₀**
2,3-Dihydro-7,7''-dimethoxyamentoflavone, 5600
Taiwanhomoflavone B, 20626
- C₃₂H₂₆O₇**
Neocandenatone, 15353
- C₃₂H₂₆O₈**
Rhuschalcone 1, 18820
- C₃₂H₂₆O₁₀**
Biphenanthrene, 2398
Chamaejasmenin A, 3458
Chamaejasmenin B, 3459
Chamaejasmenin D, 3461
(2*S*,2''*S*)-7,7''-Di-*O*-methyltetrahydroamentoflavone, 6409
7,7''-Di-*O*-methyltetrahydrohinokiflavone, 6411
Isochamaejasmenin B, 11319
Licobichalcone, 12765
Neoprotosappanin, 15451
- C₃₂H₂₆O₁₁**
Protosappanin E₁, 17990
Protosappanin E₂, 17991
- C₃₂H₂₈O₁₀**
Dahuribirin D, 4600
- C₃₂H₂₈O₁₁**
Neosappanone A, 15457
- C₃₂H₂₈O₁₅S**
Prodelphinidin A₂ 4'-(2-hydroxyethyl)thio ether, 17897
- C₃₂H₃₀N₂O₄**
Anabellamide, 1126
(-)-Auranamide, 2006
- C₃₂H₃₀O₉**
Thelephantin C, 21295
- C₃₂H₃₀O₁₀**
Occidentalol II, 15915
- C₃₂H₃₀O₁₁**
Dahuribirin E, 4601
(12*R*,12''*R*)-Diheraclenol, 5535
- C₃₂H₃₀O₁₂**
Skullcapflavone I 2'-*O*- β -*D*-(2''-*E*-cinnamoyl)glucopyranoside, 20005
Skullcapflavone I 2'-*O*- β -*D*-(3''-*E*-cinnamoyl)glucopyranoside, 20006
Skullcapflavone I 2'-*O*- β -*D*-(4''-*E*-cinnamyl)glucopyranoside, 20007
- C₃₂H₃₀O₁₄**
Secalonic acid A, 19599
Secalonic acid B, 19600
Secalonic acid C, 19601
Secalonic acid D, 19602
- C₃₂H₃₀O₁₅**
Limocitrin-3-*O*-(6''-*O*-*p*-coumaryl)- β -*D*-glucopyranoside, 12838
- C₃₂H₃₁NO₈**
Aristoloterpenate, 1726
Aristoloterpenate III, 1727
Aristophyllide A, 1729
- C₃₂H₃₂O₈**
Mexolide, 14824
- C₃₂H₃₂O₁₃**
- Myrciacitrin IV, 15150
- C₃₂H₃₂O₁₆**
Shegansu A, 19798
6''-*O*-Vanilloyliridin, 22344
- C₃₂H₃₃N₃O₄**
Scutianene D, 19589
- C₃₂H₃₄N₂O₇**
Discarine N, 6506
O-Methyl punjabine, 14707
- C₃₂H₃₄O₈**
6,6'-Dimethoxygossypol, 6232
- C₃₂H₃₄O₁₀**
Murramarin A, 15105
- C₃₂H₃₄O₁₁**
Schizanrin F, 19500
- C₃₂H₃₄O₁₂**
Orbiculin I, 16167
- C₃₂H₃₄O₁₃**
1 α ,2 α ,9 β -Tri-(β -)furoyloxy-4 β -hydroxy-15-acetoxy- β -dihydroagarofuran, 21640
- C₃₂H₃₄O₁₆**
Arabelline, 1552
Neesiinoid A, 15320
- C₃₂H₃₆O₈**
Artanomaloide, 1781
- C₃₂H₃₆O₁₀**
Schisantherin M, 19494
Schisantherin N, 19495
- C₃₂H₃₆O₁₁**
Kadsulignan D, 11999
Kadsulignan G, 12002
- C₃₂H₃₆O₁₆**
3,6-Di-*O*-*p*-coumaroyl- β -*D*-fructofuranosyl 6-*O*-acetyl- α -*D*-glucopyranoside, 5441
- C₃₂H₃₇NO₉**
Kupitengester 2, 12337
- C₃₂H₃₇NO₁₃**
1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -furoyloxy-11-acetoxy-4 β -hydroxydihydro- β -agarofuran, 15535
- C₃₂H₃₈N₂O₅**
Nigellamine C, 15566
- C₃₂H₃₈N₂O₈**
Deserpidine, 5248
- C₃₂H₃₈N₂O₉**
Pseudoreserpine 16,17-stereoisomer, 18059
- C₃₂H₃₈O₁₄**
Baohuoside III, 2140
- C₃₂H₃₈O₁₄**
Baohuoside IV, 2141
2''-*O*-Rhamnosylkarisoid A, 18742
Safghanoside D, 19115
- C₃₂H₃₈O₁₅**

- Des-*O*-methylcariin, 5257
Ikarisioside B, 10963
C₃₂H₃₈O₁₇
Glomeratose B, 8583
C₃₂H₃₈O₁₈
Biochanin A-7-*O*-[β -*D*-apiofuranosyl-(1 \rightarrow 5)- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside], 2385
Kaempferol-3-rhamnoside-7-xylosyl(1 \rightarrow 2)-rhamnoside, 12086
Sagittatin A, 19125
Vaccarin, 22302
C₃₂H₃₈O₁₉
Apigenin-7-*O*- β -apiofuranosyl-6,8-di-*C*- β -glucopyranoside, 1478
Kaempferol 3-*O*- β -*D*-apiosyl-(1 \rightarrow 2)-[α -*L*-rhamnosyl(1 \rightarrow 6)]- β -*D*-glucoside, 12027
C₃₂H₃₈O₂₀
Kaempferol 3-*O*- α -arabinopyranosyl(1" \rightarrow 6")- β -glucopyranoside 7-*O*- β -glucopyranoside, 12029
Saluenin, 19199
C₃₂H₃₈O₂₁
Quercetin-3-*O*- α -arabinopyranosyl(1" \rightarrow 6")- β -glucopyranoside 7-*O*- β -glucopyranoside, 18328
C₃₂H₃₉NO₁₁
Myrsinol-type diterpene ester CPB51-719-2, 15216
C₃₂H₃₉NO₁₅
1,6-Bis-deacetyl evonine, 2438
C₃₂H₄₀N₂O₁₃
N, β -*D*-Glucopyranosyl vincosamide, 8746
C₃₂H₄₀O₇
Plectranthol B, 17554
C₃₂H₄₀O₈
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(-)-Saucerneol methyl ether, 19403
C₃₂H₄₀O₉
17-Epi-12-dehydroxyheudebolin, 6890
C₃₂H₄₀O₁₀
2-Hydroxy-3-*O*-tigloylswietenolide, 10768
C₃₂H₄₀O₁₁
Hypolosite B, 10902
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Myrsinol-type diterpene ester CPB51-719-3, 15217
C₃₂H₄₀O₁₃
15-Acetoxy-2 α ,9 β -di-(β -furanocarbonyloxy)-4 β ,6 β -dihydroxy-1 α -(2-methylbutanoyloxy)-dihydro- β -agarofuran, 160
C₃₂H₄₀O₁₄
1 α ,2 α ,6 β ,8 β ,13-Pentaacetoxy-9 β -benzoyloxy-4 β -hydroxy- β -dihydroagarofuran, 16817
C₃₂H₄₀O₁₅
Nirurin, 15625
C₃₂H₄₀O₁₆
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C₃₂H₄₀O₁₇
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C₃₂H₄₀O₁₈
Telephiose C, 20909
C₃₂H₄₀O₁₉
Viscumneoside V, 22540
C₃₂H₄₁NO₂
N-(1',4'-Dihydroxy-1',2',3',4'-tetrahydronaphthyl)-propyl-*N*-diphenylmethyl-*N*-3,3-dimethylbutylamine, 6144
C₃₂H₄₁NO₈
15-Veratroyl-17-acetyl-19-oxodictizine, 22391
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C₃₂H₄₂O₉
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C₃₂H₄₂O₁₀
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C₃₂H₄₂O₁₁
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C₃₂H₄₂O₁₃
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1 β ,2 β ,9 α -Triacetoxy-8 α -(2-hydroxy-isobutyryloxy)-15-benzoyloxy-4 α -hydroxy- β -dihydroagarofuran, 21524
C₃₂H₄₂O₁₅
1 β ,7 β ,8 α -Triacetoxy-2 β -furanoyl-4 α -hydroxy-11-isobutyryloxy-dihydroagarofuran, 21521
C₃₂H₄₂O₁₆
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(+)-Pinoresinol-di-*O*- β -*D*-glucoside, 17412
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(+)-1-Hydroxypinoresinol-4',4"-di-*O*- β -*D*-glucopyranoside, 10653
C₃₂H₄₂O₂₁
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C₃₂H₄₃NO₇
15-Veratroyl-17-acetyldictizine, 22390
C₃₂H₄₄N₂O₄
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C₃₂H₄₄N₂O₈
Isolappaconitine, 11476
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C₃₂H₄₄N₂O₉
N-Acetylsepaconitine, 508
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C₃₂H₄₄O₆
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3-*O*-(2'*E*,4'*Z*-Decadienyl)-5-*O*-acetylingenol, 4821
3-*O*-(2'*E*,4'*Z*-Decadienyl)-20-*O*-acetylingenol, 4822
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- C₃₂H₄₄O₉**
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- C₃₂H₄₄O₁₁**
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(-)-Olivil-4',4"-di-*O*-*β*-*D*-glucopyranoside, 16089
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14-*O*-Anisoylneoline, 1292
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Circinadine A, 3735
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(-)-Culantramine *N*-oxide, 4348
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- C₃₂H₄₆O₅**
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2'-*O*-Acetyl cerleaside A, 349
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- C₃₂H₄₈N₂O₄**
(-)-Culantraminol *N*-oxide, 4349
- C₃₂H₄₈O₄**
3*β*-Acetoxy-12,19-dioxo-13(18)-oleanene, 174
3*β*-Acetoxy-11*α*,12*α*-epoxy-16-oxo-14-taraxerene, 188
3*β*-Acetoxy-11-ursen-13*α*,30-olide, 301
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12*β*-Acetoxycoccinic acid, 145
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3*β*-Hydroxy-16*α*-acetoxy-lanosta-7,9(11),24-trien-21-oic acid, 9758
Lanosta-7,9(11),24-trien-3*α*-acetoxy-15*α*,22*β*-dihydroxy-26-oic acid, 12482
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- C₃₂H₄₈O₆**
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12-*O*-Acetylphorbla-13-decanoate, 482
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- C₃₂H₄₈O₈**
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- C₃₂H₄₈O₉**
Beauwalloside, 2190
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- C₃₂H₄₈O₁₀**
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- C₃₂H₄₈O₁₂**

- 2*α*,5*α*,14*β*-Triacetoxo-10*β*-*O*-(*β*-*D*-glucopyranosyl)taxa-4(20),11-diene, 21523
- C₃₂H₄₈O₁₄**
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- C₃₂H₄₈O₁₈**
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- C₃₂H₅₀N₄O₆**
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- C₃₂H₅₀O₂**
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- C₃₂H₅₀O₃**
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3*β*-Acetoxy-15*α*-hydroxy-13,27-cyclours-11-ene, 211
3*β*-Acetoxy-12-oleanen-11-one, 267
3*β*-Acetoxy-24-oxo-dammara-20,25-diene, 270
3*β*-Acetyl-5*α*-lanosta-8,24-diene-11-one, 446
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- C₃₂H₅₀O₄**
3*β*-Acetoxy-1*β*,11*α*-epidioxy-12-ursene, 178
3*β*-Acetoxyolean-12-en-28-oic acid, 266
Acetylbetulinic acid, 332
(20*S*,22*S*,23*E*)-22-*O*-Acetyl-25-hydroxylanosta-8,23(*E*)-dien-3-one, 422
3*β*-*O*-Acetyl-mangiferolic acid, 462
3-*O*-Acetylsursolic acid, 530
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17*β*-Formyloxy-3*β*-acetyloxy-28-nor-urs-12-ene, 7911
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- C₃₂H₅₀O₅**
3*β*-Acetoxy-18*α*-hydroperoxy-12-oleanen-11-one, 203
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25-Anhydroalisol A 24-acetate, 1258
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- C₃₂H₅₀O₆**
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21-*O*-Acetyl toosendantriol, 527
- Acinospesigenin A, 546
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Cordiaketol B, 4040
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- C₃₂H₅₀O₇**
Alizexol B, 903
- C₃₂H₅₀O₈**
Baliospermin, 2130
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- C₃₂H₅₀O₉**
Hemslecin G, 9355
- C₃₂H₅₀O₁₁**
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- C₃₂H₅₀O₁₃**
Cussoracoside C, 4425
- C₃₂H₅₂N₂O₄**
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- C₃₂H₅₂O₂**
3*β*-Acetoxy-dammara-20,24-diene, 149
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Taraxasteryl acetate, 20707
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- C₃₂H₅₂O₃**
3*β*-Acetoxy-25-hydroxydammara-20,23-diene, 212
3*β*-Acetoxy-25-hydroxylanosta-8,23-diene, 228
3*β*-Acetoxy-19(29)-taraxasten-20*α*-ol, 283
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- Taraxaster-20-en-3*β*,16*α*-diol-3-acetate, 20703
- C₃₂H₅₂O₄**
3*β*-Acetoxy-21*α*,22*α*-epoxytaraxastan-20*α*-ol, 189
(20*S*)-3*β*-Acetoxylupan-29-oic acid, 249
14*β*,15*β*-Epoxy-3*β*-hydroxyserratan-21*α*-ol-3*β*-*O*-acetate, 7142
2-*n*-Heneicosyl-5,7-dihydroxy-6,8-dimethyl chromone, 9361
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- C₃₂H₅₂O₅**
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3*β*-Acetoxy-11*α*-hydroperoxy-13*αH*-ursan-12-one, 204
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21*R*,23*R*-Epoxy,21*α*-ethoxy,24*S*,25-dihydroxy-apotirucalla-7-en-3-one, 7094
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- C₃₂H₅₂O₇**
13*β*,17*β*-Epoxyalisol A 24-acetate, 7051
- C₃₂H₅₂O₈**
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- C₃₂H₅₂O₉**
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- C₃₂H₅₂O₁₁**
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- C₃₂H₅₂O₁₄**
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- C₃₂H₅₄N₂O₃**
(-)-Buxahejramine, 2813
(-)-Buxakarachiamine, 2814
- C₃₂H₅₄O**
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Cycloneolitsol, 4519
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- (24S)-24-Methyl-25,32-cyclo-5 α -lanosta-9(11)-en-3 β -ol, 14273
- C₃₂H₅₄O₂**
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- C₃₂H₅₄O₄**
24*R*-Acetoxy-3 β ,25-dihydroxycycloartane, 162
3 β -Acetyl-20,25-epoxydammarane-24 α -ol, 386
3 β -Acetyl-20,25-epoxydammarane-24 β -ol, 387
- C₃₂H₅₄O₅**
3 β -Acetoxy-12 β ,16 β ,20*S*-trihydroxydammar-24-ene, 294
3 β -Acetoxy-16 β ,20*S*,25-trihydroxydammar-23-ene, 295
- C₃₂H₅₄O₆**
(20*S*)-3 β -Acetoxy-12 β ,16 β ,25-tetrahydroxydammar-23-ene, 286
- C₃₂H₅₄O₁₃**
Neodarutoside, 15390
- C₃₂H₅₄O₁₄**
Pyishiauoside II_b, 18238
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Atractyloside E, 1978
- C₃₂H₅₅O₅**
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- C₃₂H₅₆O₄**
Mollugogenol D, 14904
- C₃₂H₅₆O₇**
14-Deacetyleyrylene, 4740
- C₃₂H₅₇NO₂**
Violydoenamamide, 22522
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Nodolidate, 15651
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- C₃₂H₆₃NO₃**
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- C₃₂H₆₄O₂**
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- C₃₃H₂₂O₁₀**
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- C₃₃H₂₄O₈**
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4''',5,5'',7''-Tetrahydroxy-3''',3''',4'-trimethoxy-6-*O*- α ,7- β -flavone-chalcone, 21165
4',5,5'',7''-Tetrahydroxy-3',3'',4''-trimethoxy-6-*O*- α ,7- β -flavone-chalcone, 21166
4',5,5'',7''-Tetrahydroxy-3',3'',4''-trimethoxy-6-*O*- β ,7- α -flavone-chalcone, 21167
- C₃₃H₂₆O₁₀**
5,3'-Dibenzoyloxy-3,6,7,4'-tetramethoxyflavone, 5387
- C₃₃H₂₆O₁₇**
Swertipunicoside, 20514
- C₃₃H₂₈N₂O₆**
Kurramine-2'- α -*N*-oxide, 12351
Kurramine-2'- β -*N*-oxide, 12352
- C₃₃H₂₈O₉**
Dehydroxyhexaspermone C, 4985
- C₃₃H₂₈O₁₀**
Chamaejasmenin C, 3460
Hexaspermone C, 9518
Ruixianglangdusu A, 19063
Ruixianglangdusu B, 19064
- C₃₃H₂₈O₂₄**
Mallonin, 13423
- C₃₃H₃₀O₆**
BF-6, 2341
2-[4,5-Dimethoxy-5-(3-phenyl-*trans*-allyl)cyclohexa-3,6-dien-2-on-1-ylmethyl]-5-hydroxy-6-methoxy-3-phenylbenzofuran, 6275
2-[4,5-Dimethoxy-2-(3-phenyl-*trans*-allyloxy)benzyl]-5-hydroxy-6-methoxy-3-phenylbenzofuran, 6276
Magnolignan I, 13386
- C₃₃H₃₀O₈**
rel-1 β -(4,6-Dihydroxy-2-methoxy)-benzoyl-*rel*-2 α -(2,6-dimethoxy-4-hydroxy)-benzoyl-*rel*-(3 β ,4 α)-diphenylcyclobutane, 5966
- C₃₃H₃₀O₉**
Sanggenon B, 19256
- C₃₃H₃₀O₁₀**
Curtisian J, 4406
Dahuribirin A, 4597
- C₃₃H₃₀O₁₁**
Dahuribirin C, 4599
- C₃₃H₃₀O₁₅**
1,2,6-Tri-*O*-(*E*)-caffeoyl- β -*D*-glucopyranose, 21551
- C₃₃H₃₂N₂O₁₅**
Gomphrenin III, 8929
- C₃₃H₃₂O₈**
Piperaduncin C, 17432
Thelephantin F, 21298
- C₃₃H₃₂O₉**
Occidentalol I, 15914
- C₃₃H₃₂O₁₀**
Tricolorin A, 21591
- C₃₃H₃₄N₄O₃**
Pyropheophorbide a, 18272
- C₃₃H₃₄N₄O₆**
Biliverdin, 2375
- C₃₃H₃₅N₅O₅**
Ergotamine, 7252
Ergotaminine, 7253
- C₃₃H₃₅O₂₃⁺**
Delphinidin-3,5-di-*O*-(6-*O*-malonyl- β -*D*-glucoside), 5021
- C₃₃H₃₆N₄O₆**
Bilirubin, 2374
- C₃₃H₃₆O₅**
Humuladien-10-yl-(3-Hydroxy-5-oxo-4-phenyl-5*H*-furan-2-ylidene)-phenylacetic acid-ester, 9666
- C₃₃H₃₆O₆**
(3-Hydroxy-5-oxo-4-phenyl-5*H*-furan-2-ylidene)-phenylacetic Acid 6-hydroxy-1,7(11)-humuladienyl-10-yl ester, 10579
- C₃₃H₃₆O₇**
Isomorellin, 11541
Morellin, 14968
- C₃₃H₃₆O₈**
Isomorellic acid, 11540
Morellic acid, 14967
- C₃₃H₃₆O₁₁**
Triptofordin B₂, 22000
- C₃₃H₃₆O₁₉**
Quercetin-3-*O*-[(2,3,4-triacetyl- α -rhamnopyranosyl)-(1 \rightarrow 6)]- β -galactopyranoside, 18403
- C₃₃H₃₈N₄O₄**
Condaline A, 3962
Scutianine M, 19595
- C₃₃H₃₈O₆**
Deoxymorellin, 5196
- C₃₃H₃₈O₇**
Dihydroisomorellin, 5651
Gaudichaudione A, 8239
- C₃₃H₃₈O₈**
5 α -Acetoxy-1 β -benzoyl-8 α -cinnamoyl-4 α -hydroxy-dihydroagarofuran, 130
Gaudichaudic acid, 8238

- C₃₃H₃₈O₉**
1 β ,6 α -Diacetoxy-8 β ,9 β -dibenzyloxy- β -dihydro-agarofuran, 5292
Orbiculin A, 16162
- C₃₃H₃₈O₁₀**
Salasol B, 19179
- C₃₃H₃₈O₁₁**
1S,13-Diacetyloxy-4S-hydroxy-6R-(3-)furan-carbonyloxy-9S-cinnamoyloxy- β -dihydro-agarofuran, 5344
Schizanrin H, 19502
Triptofordin C₂, 22001
Triptofordin E, 22004
- C₃₃H₃₈O₁₇**
3-*O-p*-Coumaroyl-6-*O*-feruloyl- β -D-fructofuranosyl 6-*O*-acetyl- α -D-glucopyranoside, 4157
- C₃₃H₃₈O₂₁**
Kaempferol 3-*O*- β -(2"-*O*- α -rhamnopyranosyl-3"-*O*- β -glucopyranosyl)- β -glucuronopyranoside, 12077
- C₃₃H₄₀N₂O₉**
Renoxidine, 18623
Reserpine, 18633
- C₃₃H₄₀O₆**
Deoxygaudichaudione A, 5175
- C₃₃H₄₀O₈**
2,9-Diacetyl-5-cinnamoylphototaxicin II, 5329
2,10-Diacetyl-5-cinnamoylphototaxicin II, 5330
Morinol A, 14976
Morinol B, 14977
- C₃₃H₄₀O₉**
5-Cinnamoyl-9,10-diacetyltaxicin I, 3701
2,10-Diacetyl-5-cinnamoyl-7 β -hydroxyphototaxicin II, 5328
Taxuspinanane H, 20847
- C₃₃H₄₀O₁₀**
(2*R**,3*S**,4*R**,5*R**,8*R**,13*S**,15*R**)-5,8,15-Triacetoxy-3-benzoyloxy-9,14-dioxojatrophane(17),11*E*-diene, 21513
- C₃₃H₄₀O₁₁**
Acetoxytoonacilin, 290
Euphobescenol, 7614
Orthosiphol J, 16228
Taxuspinanane B, 20842
- C₃₃H₄₀O₁₄**
Anhydroicaritin-3-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranoside, 1274
Linarin isovalerate, 12855
2"-*O*-Rhamnosyl icarisiside II, 18741
Sandrapin A, 19240
- C₃₃H₄₀O₁₅**
Anhydroicaritin-3-*O*- α -L-rhamnosyl-7-*O*- β -D-glucopyranoside, 1275
Baohuoside VII, 2143
- C₃₃H₄₀O₁₆**
Tabulalide C, 20583
- C₃₃H₄₀O₁₇**
Glomeratose C, 8584
- C₃₃H₄₀O₁₈**
Arillanin A, 1681
Genistein 7-*O*- α -L-rhamnopyranoside-4'-*O*-[(α -L-rhamnopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside], 8285
Kaempferol-3-*O*-rhamnosyl-7-rhamnosyl-(1 \rightarrow 3)-rhamnoside, 12089
3'-Sinapoyl-6-feruloylsucrose, 19919
- C₃₃H₄₀O₁₉**
Clitorin, 3846
5,4'-Dihydroxyflavone-6-*C*- β -D-glycosyl-rhamnoside-7-*O*-glycoside, 5896
4',5'-Dihydroxy-7-methoxyflavonol 3-*O*- β -D-xylopyranosyl-(1 \rightarrow 2)-*O*-[(α -L-rhamnopyranosyl)-(1 \rightarrow 6)]- β -D-glucopyranoside, 5983
Genistein 7-*O*- β -D-glucopyranoside-4'-*O*-[(α -L-rhamnopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside], 8281
Genistein 7-*O*- α -L-rhamnopyranoside-4'-*O*-[(β -D-glucopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside], 8284
1-[(β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl)oxy]-8-hydroxy-3-methyl-9,10-antraquinone, 8645
Kaempferol 3-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-7-*O*- α -L-rhamnopyranoside, 12075
Kaempferol-3-*O*-[α -rhamnopyranosyl-(1 \rightarrow 4)-rhamnopyranosyl-(1 \rightarrow 6)- β -galactopyranoside], 12080
Oxytroside, 16479
Robinin, 18859
- C₃₃H₄₀O₂₀**
Genistein 7-*O*- β -D-glucopyranoside-4'-*O*-[(β -D-glucopyranosyl)-(1 \rightarrow 2)- β -D-glucopyranoside], 8280
Isorhamnetin 3-*O*- β -D-apiofuranosyl-(1''' \rightarrow 2'')[(α -L-rhamnopyranosyl-(1''' \rightarrow 6''))- β -D-galactopyranoside], 11649
Isorhamnetin 3-*O*- β -D-xylopyranosyl-(1''' \rightarrow 3''')- α -L-rhamnopyranosyl-(1''' \rightarrow 6''')- β -D-galactopyranoside, 11671
Kaempferol 3-*O*-[β -D-glucopyranosyl-(1 \rightarrow 2)-[α -L-rhamonopyranosyl-(1 \rightarrow 6)]- β -D-galactopyranoside], 12019
Kaempferol 3-*O*- α -(2,3-di-*O*- β -D-glucopyranosyl)-rhamnopyranoside, 12041
Kaempferol 3-*O*- α -L-(2-*O*- β -D-glucopyranosyl)-rhamnopyranoside-7-*O*- β -D-glucopyranoside, 12055
Kaempferol 3-*O*- α -rhamnoside-7,4'-di-*O*- β -galactoside, 12084
Kaempferol-3-rhamnosyl glucoside-7-glucoside, 12087
Manghaslin, 13479
Quercetin-3-*O*-(2'',6''- α -L-dirhamnopyranosyl)- β -D-galactopyranoside, 18351
Quercetin-3-*O*-[α -rhamnopyranosyl-(1 \rightarrow 4)-rhamnopyranosyl-(1 \rightarrow 6)]- β -galactopyranoside, 18385
Quercetin-3-*O*-[α -rhamnopyranosyl-(1 \rightarrow 4)- α -rhamnopyranosyl-(1 \rightarrow 6)- β -glucopyranoside], 18386
Quercetin-3-rutinoside-7-rhamnoside, 18392
- C₃₃H₄₀O₂₁**
Aescuflavoside A, 662
Kaempferol-3-diglucose-7-glucoside, 12042
Kaempferol 3-*O*- β -D-glucosyl(1 \rightarrow 2)- β -D-galactoside 7-*O*- β -D-glucoside, 12064
Kaempferol-3-*O*-sophoroside-7-*O*- β -glucopyranoside, 12095
Kaempferol-3-sophorotrioside, 12097
Kaempferol-3,7,4'-tri-*O*- β -glucoside, 12100
Myricetin-3-*O*-(2'',6''-di-*O*- α -rhamnosyl)- β -glucoside, 15175
Peruvianoside III, 17001
Quercetin-3-*O*- α -L-(2-*O*- β -D-glucopyranosyl)-rhamnopyranoside-7-*O*- β -D-glucopyranoside, 18366
Quercetin-3-rutinoside-7-glucoside, 18391
Quercetin-3-rutinosyl-7-galactoside, 18393
- C₃₃H₄₀O₂₂**
Herbacetin-3- β -D-(2-*O*- β -D-glucopyranosyl)-glucopyranoside)-8- β -D-glucopyranoside, 9422
Moracetin, 14953
Myricetin-3-*O*- α -L-(2-*O*- β -D-glucopyranosyl)-rhamnopyranoside-7-*O*- β -D-glucopyranoside, 15182
Quercetin-3-*O*- β -D-glucosyl(1 \rightarrow 2)- β -D-galactoside 7-*O*- β -D-glucoside, 18370
Quercetin-3-sophorotrioside, 18398
Quercetin-3,3',4'-tri-*O*- β -D-glucopyranoside, 18404
Quercetin-5,7,4'-tri-*O*- β -D-glucopyranoside, 18405
- C₃₃H₄₀O₂₃**
Gossypetin-3- β -D-(2-*O*- β -D-glucopyranosyl)-glucopyranoside)-8- β -D-glucopyranoside, 8962

- C₃₃H₄₁NO₈**
Lythrancine IV, 13275
Lythrancine V, 13276
- C₃₃H₄₁O₂₀⁺**
Cyanidin-3-rutinoside-5-glucoside, 4447
Cyanidin-3-*O*-β-rutinoside-7-*O*-β-glucoside, 4448
Raphanusin, 18548
- C₃₃H₄₂N₄**
Auricularine, 2013
- C₃₃H₄₂N₄O₆**
Urobilin, 22259
- C₃₃H₄₂N₆O₇**
Cherimolacyclopeptide E, 3514
- C₃₃H₄₂O₄**
Kolanone, 12256
- C₃₃H₄₂O₅**
Garcinielliptone K, 8213
Hypercalin B, 10881
- C₃₃H₄₂O₆**
Garciosaphenone A, 8223
- C₃₃H₄₂O₇**
Dantaxusin B, 4637
9α,10β-Diacetoxy-5α-cinnamoyloxytaxa-4(20),11-dien-13α-ol, 5289
- C₃₃H₄₂O₈**
5α-Cinnamoyloxy-2α,13α-dihydroxy-9α,10β-diacetoxy-4(20),11-taxadiene, 3714
2-Deacetoxy-7,9-dideacetyltaxinine J, 4705
Japonicin B, 11818
- C₃₃H₄₂O₉**
10β-Deacetylspicatine, 4773
Euphoscopin B, 7619
Pubescene A, 18170
Quivisianthone, 18453
- C₃₃H₄₂O₁₀**
13-Acetylbrevifoliol, 337
2α-Benzoyloxy-9α,10β,13α-triacetoxy-1β,5α-dihydroxy-4(20),11-taxadiene, 2265
7β,16α-Diacetoxy withanolide D, 5324
Euphoheliosnoid C, 7610
Paraliane 13, 16653
Taxawallin D, 20754
- C₃₃H₄₂O₁₁**
13-Acetyl-9-deacetyl-9-benzoyl-10-debenzoyl-taxchinin A, 363
Orthosiphol U, 16236
Taxchinin A, 20770
- C₃₃H₄₂O₁₂**
15-Benzoyl-2-debenzoyl-7,9-dideacetyl-abeobaccatin VI, 2237
7,9-Deacetyl-baccatin VI, 4726
13-Decinamoyl-9-deacetyltaxchinin B, 4851
- 10-(β-Hydroxybutyryl)-10-deacetyl-baccatin I, 9865
Tasumatrol G, 20722
Taxayuntin E, 20763
Taxayuntin F, 20764
Taxumairol H, 20828
Taxuyunnanine E, 20877
- C₃₃H₄₂O₁₃**
Taxumairol Z, 20839
- C₃₃H₄₂O₁₄**
Woorenoside III, 22729
- C₃₃H₄₂O₁₆**
Wiedemannioside A, 22662
- C₃₃H₄₂O₁₉**
Naringenin-4'-glucoside-7-neohesperidoside, 15282
Naringenin-4'-glucoside-7-rutinoside, 15283
- C₃₃H₄₃ClO₁₄**
Juncin O, 11955
- C₃₃H₄₃NO₁₁**
Aldohypaconitine, 877
- C₃₃H₄₃N₅O₄**
Amphibine A, 1080
Waltherine B, 22633
- C₃₃H₄₃N₅O₅**
O-12'-Methyl-α-ergokryptine, 14412
O-12'-Methyl-α-ergokryptinine, 14413
- C₃₃H₄₄O₄**
Eudesobovitol A, 7517
- C₃₃H₄₄O₆**
rel-Labd-12-en-15(16)-olid-7-one-8*R*-spiro-1'-[2*S*-(2,4,5-trimethoxyphenyl)-3-cyclohexene], 12419
- C₃₃H₄₄O₈**
Sarothralen A, 19385
- C₃₃H₄₄O₉**
1-Deacetyl-nimbolin B, 4756
Methyl ganoderate F, 14457
- C₃₃H₄₄O₁₀**
Ardisiaquinone I, 1637
- C₃₃H₄₄O₁₂**
Tasumatrol F, 20721
- C₃₃H₄₄O₁₃**
Tasumatrol E, 20720
- C₃₃H₄₄O₁₄**
2',7-Dihydroxy-4'-methoxy-8-prenylflavan
2',7-di-*O*-β-*D*-glucopyranoside, 6004
- C₃₃H₄₄O₁₅**
1α,2α,6β,15-Tetraacetoxy-3α-(α-methyl)-butanoyl-4β-hydroxy-9β-(β-furoyloxy-β-dihydroagarofuran, 21031
- C₃₃H₄₄O₁₆**
Arctigenin 4'-gentiobioside, 1622
- Javanicoside F, 11859
- C₃₃H₄₄O₁₇**
(+)-Medioresinol di-*O*-β-*D*-glucopyranoside, 13641
Syringaresinol-4-*O*-β-*D*-apiofuranosyl-(1→2)-β-*D*-glucopyranoside, 20557
Trachelogenin 4'-*O*-β-gentiobioside, 21492
- C₃₃H₄₄O₂₀**
Adinoside D, 639
Adinoside E, 640
Epigeoside, 6925
- C₃₃H₄₅ClO₁₄**
Gemmacolide B, 8265
- C₃₃H₄₅NO₆**
Leueantine C, 12730
- C₃₃H₄₅NO₇**
8-*O*-Cinnamoylneoline, 3712
14-*O*-Cinnamoylneoline, 3713
2-Deacetyl-9-acetoxytaxine B, 4711
2-Deacetyl-10-acetyltaxine B, 4713
Kongboendine, 12259
Leueantine D, 12731
- C₃₃H₄₅NO₈**
Taxine B, 20795
- C₃₃H₄₅NO₉**
2-Deacetyltaxine A, 4780
Delphinine, 5032
Isodelphinine, 11373
- C₃₃H₄₅NO₁₀**
Hypaconitine, 10875
- C₃₃H₄₅NO₁₁**
Mesaconitine, 13794
- C₃₃H₄₅NO₁₂**
Beiwutine, 2214
- C₃₃H₄₆N₈O₈**
Pseudostellarin B, 18065
- C₃₃H₄₆O₈**
Phorbol-12-tiglate-13-caprylenate, 17193
- C₃₃H₄₆O₁₀**
Ostodin, 16262
- C₃₃H₄₆O₁₃**
Taxuspine Q, 20864
- C₃₃H₄₆O₁₅**
Myricanol gentiobioside, 15162
- C₃₃H₄₆O₁₇**
(+)-Lyoniresinol-3α-*O*-β-*D*-apiofuranosyl-(1→2)-β-*D*-glucopyranoside, 13251
- C₃₃H₄₆O₁₉**
6'-*O*-(7α-Hydroxyswerosyloxy)loganin, 10735
- C₃₃H₄₆O₂₀**
Randinoside, 18542
- C₃₃H₄₇ClO₁₂**
Juncenolide F, 11953

- C₃₃H₄₇NO₂**
Emindole PA, 6773
Emindole PB, 6774
Emindole PC, 6775
- C₃₃H₄₇NO₉**
8-Deacetylsungpanconitine, 4774
Neojiangyouaconitine, 15418
14-*O*-Veratrolyneoline, 22394
- C₃₃H₄₇NO₁₀**
14-Benzoyl-8-*O*-methyl-aconine I, 2248
8-Deacetylyunaconitine, 4792
- C₃₃H₄₈O₅**
3-*O*-Acetyl-methyl-(24*E*)-3*a*,16*a*,23*a*(=16*R*,23*R*)-trihydroxy-epoxy-17,14-friedolan-8,14,24-trien-26-oate, 467
Fomefficinic acid E, 7859
Fomitopsis acid B, 7862
- C₃₃H₄₈O₆**
Inocalophyllin B methyl ester, 11066
- C₃₃H₄₈O₇**
Revandchinone 4, 18672
- C₃₃H₄₈O₈**
Phorbol-12- α -methylbutyrate-13-caprylate, 17189
- C₃₃H₄₈O₉**
12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranor-cycloart-7-en-23,16 β -olide 3-*O*- β -*D*-xylopyranoside, 238
- C₃₃H₄₈O₁₀**
Caseamembrin D, 3261
2*a*-(α -Methylbutyryl)-oxy-5*a*,7 β ,9*a*,10 β -tetra-acetoxy-4(20),11-taxadiene, 14198
Taxuyunnanin B, 20874
- C₃₃H₄₉NO₈**
Pseudojervine, 18030
- C₃₃H₄₉N₅O₆**
Zizyphine A, 23014
- C₃₃H₅₀N₂O₂**
N-Benzoylbuxahyrcanine, 2233
- C₃₃H₅₀N₂O₃**
Pachysandrine A, 16505
- C₃₃H₅₀O₅**
Fomlactone A, 7876
- C₃₃H₅₀O₆**
Methylcamaralate, 14208
Regelin C, 18579
- C₃₃H₅₀O₉**
12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranor-cycloartan-23,16 β -olide 3-*O*- β -*D*-xylopyranoside, 237
- C₃₃H₅₀O₁₁**
Spongipregnoside A, 20230
Spongipregnoside B, 20231
- C₃₃H₅₂N₄O₆**
N-Methylsalsalvamide, 14719
- C₃₃H₅₂O₅**
3 β -Acetoxy-12*a*-formyloxy-13,27-cycloursan-11*a*-ol, 197
Euscaphic acid 2,3-monoacetone, 7658
21*a*-Hydroxyserrat-14-en-3 β -yl propanedioic acid monoester, 10708
Pachymic acid, 16496
Tsugaric acid B, 22069
- C₃₃H₅₂O₈**
Collettinside I, 3922
Diosgenin-3-*O*- β -*D*-glucopyranoside, 6443
- C₃₃H₅₂O₉**
Agavoside A, 727
Convallamarogen-3-*O*- β -*D*-glucopyranoside, 4006
- C₃₃H₅₂O₁₀**
22-Hydroxy-25(*R,S*)-furost-5-en-12-on-3 β ,22,26-triol 26-*O*- β -*D*-glucopyranoside, 10134
- C₃₃H₅₂O₁₂**
Aspidoside A, 1902
- C₃₃H₅₂O₁₅**
Wattoside H, 22654
- C₃₃H₅₂O₁₇**
10-Isovaleryl kanokoside C, 11762
- C₃₃H₅₂O₁₈**
Jasnudifloside K, 11831
- C₃₃H₅₃NO₆**
Solaplumbinine, 20065
- C₃₃H₅₃NO₇**
Yibeinoside A, 22904
Yibeinoside B, 22905
- C₃₃H₅₃NO₈**
Hupehemonoside, 9679
- C₃₃H₅₄O₂**
Eburicyl acetate, 6676
24-Methylenecycloartanyl acetate, 14355
Sablacaurin A, 19102
- C₃₃H₅₄O₃**
3 β -Acetoxy-25-methoxy-lanosta-8,23-diene, 252
- C₃₃H₅₄O₈**
Asparagoside A, 1867
(22*S*)-Cholesta-5,24-diene-3 β ,11*a*,16 β ,22-tetrol 16-*O*- α -*L*-rhamnopyranoside, 3577
Timosaponin A¹, 21394
- C₃₃H₅₄O₉**
22-Epirhodeasapogenin-3-*O*- β -*D*-glucopyranoside, 7005
16 β -[(β -*D*-Glucopyranosyl)-oxy]-3 β ,7 β -dihydroxycholest-5-en-23-one, 8687
(25*R*)-3 β -Hydroxy-5*a*-spirostan-6*a*-yl *O*- β -*D*-glucopyranoside, 10717
- Isorhodeasapogenin-3-*O*- β -*D*-glucopyranoside, 11675
Rhodeasapogenin-3-*O*- β -*D*-glucopyranoside, 18782
Tokoronin, 21428
- C₃₃H₅₄O₁₀**
Agamenoside I, 698
Agamenoside J, 699
(25*R*)-5*a*-Spirostan-3 β ,6*a*,23*a*-triol-6-*O*- β -*D*-glucopyranoside, 20216
Tokorogenin-*L*-*O*- β -*D*-glucopyranoside, 21427
- C₃₃H₅₄O₁₁**
Ponasteroside A, 17703
(25*S*)-1 β ,3 β ,4 β -Trihydroxyspirostan-5 β -yl-*O*- β -*D*-glucopyranoside, 21845
- C₃₃H₅₄O₁₂**
20 β -Ecdysterone 2-*O*- β -*D*-glucopyranoside, 6680
Ecdysterone-3-*O*- β -*D*-glucopyranoside, 6681
Ecdysterone-22-*O*- β -*D*-glucopyranoside, 6682
- C₃₃H₅₄O₁₃**
20-Hydroxyecdysone 3-*O*- β -*D*-glucoside, 10064
- C₃₃H₅₅NO₅**
Acutifolin palmitate, 598
- C₃₃H₅₅NO₇**
Capsicastrine, 3143
Hupeheninoside, 9682
Persicanidine B-3-*O*- β -*D*-glucoside, 16989
- C₃₃H₅₅NO₈**
Peiminoside, 16775
Zhebeininoside, 22994
- C₃₃H₅₆O₄**
Tetracosyl caffeate, 21039
- C₃₃H₅₆O₈**
(22*S*)-Cholest-5-ene-3*a*,11*a*,16 β ,22-tetrol 16-*O*- α -*L*-rhamnopyranoside, 3583
- C₃₃H₅₆O₁₂**
6'-*O*- α -*L*-Rhamnopyranosyl-4-epimicrolepin, 18698
- C₃₃H₅₆O₁₃**
Wattoside D, 22651
- C₃₃H₅₆O₁₄**
Denin, 5131
 α , β -Digalactosyl- α -linolenic-glyceride, 5509
Nerolidol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 15502
Nerolidol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 15503
Pyishiauoside Ib, 18237
- C₃₃H₅₆O₁₇**
Periplocae oligosaccharide F₂, 16941
- C₃₃H₅₇NO₃**

- Qinjiaoamide, 18292
- C₃₃H₅₇NO₈**
Jurubine, 11971
- C₃₃H₅₈O₂**
Cycloartanol acetate, 4469
- C₃₃H₅₈O₁₄**
Gingerglycolipid B, 8392
2,3,4-Tri(5-methylhexanoyl)- α -D-glucopyranosyl- β -D-fructofuranoside, 21964
- C₃₃H₆₀O₆**
Montalycin A, 14936
- C₃₃H₆₀O₇**
Muricin D, 15093
Muricin E, 15094
- C₃₃H₆₀O₁₄**
Gingerglycolipid C, 8393
- C₃₃H₆₃NO₄**
(2S,2'R,3R,4E,8E)-N-2'-Hydroxytetradecanoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol, 10744
- C₃₃H₆₄O₂**
Eucalyptus wax, 7482
- C₃₃H₆₆O₂**
Psyllic acid, 18096
- C₃₃H₆₇NO₅**
Trufflesphingolipid C, 22055
- C₃₃H₆₈**
n-Tritriacontane, 22042
- C₃₃H₆₈O**
6-Tritriacontanol, 22043
Tritriacontanol, 22044
- C₃₄H₂₂O₈**
(\pm)-Albanol B, 847
- C₃₄H₂₂O₉**
Mulberrofuran P, 15050
- C₃₄H₂₂O₁₀**
Mulberrofuran M, 15047
- C₃₄H₂₂O₂₂**
Punicalin, 18205
- C₃₄H₂₄O₁₀**
Mulberrofuran Q, 15051
- C₃₄H₂₄O₂₁**
Balanophotannin A, 2127
- C₃₄H₂₄O₂₂**
Casuariin, 3302
5-Desgalloylstachyurin, 5249
Pedunculagin, 16765
Tomentosin, 21443
- C₃₄H₂₆O₆**
2,2'-Di-(2-phenylethyl)-8,6'-dihydroxy-5,5'-bichromone (AH11), 6486
- C₃₄H₂₆O₈**
Albanol A, 846
- Curtisian Q, 4413
Ganbajunin C, 8132
Ganbajunin E, 8133
Mulberrofuran G, 15044
Terrestrin A, 21006
- C₃₄H₂₆O₁₀**
Kuwanon Z, 12394
Stephaflavone A, 20314
7,4',7'',4'''-Tetra-*O*-methylamentoflavone, 21192
- C₃₄H₂₆O₂₂**
1,2-Di-*O*-galloyl-4,6-*O*-(*S*)-hexahydroxydiphenyl- β -D-glucopyranose, 5521
Mallorepanin, 13428
Mallotinic acid, 13429
Sanguiin H₁, 19273
Tellimagrandin I, 20910
Tercatain, 20969
- C₃₄H₂₆O₂₃**
Punigluconin, 18206
Sanguiin H₇, 19279
- C₃₄H₂₈O₇**
Kuwanol A, 12377
- C₃₄H₂₈O₈**
AH21, 772
- C₃₄H₂₈O₉**
Albafuran C, 845
Mulberrofuran C, 15041
- C₃₄H₂₈O₂₂**
1,2,3,4-Tetragalloyl- α -D-glucose, 21052
1,2,3,6-Tetra-*O*-galloyl- β -D-glucose, 21053
1,2,4,6-Tetra-*O*-galloyl- β -D-glucose, 21054
- C₃₄H₃₀N₂O₅**
1,2-Dehydroapateline, 4877
- C₃₄H₃₀N₂O₆**
Puertogaline A, 18187
- C₃₄H₃₀O₈**
Guangsangon B, 9054
(5S,6R,7R,8S)-2-(2-Phenylethyl)-5,6,7-trihydroxy-5,6,7,8-tetrahydro-8-[2-(2-phenylethyl)chromonyl-6-oxy]chromone (AH13), 17119
(5S,6S,7S,8R)-2-(2-Phenylethyl)-6,7,8-trihydroxy-5,6,7,8-tetrahydro-5-[2-(2-phenylethyl)chromonyl-6-oxy]chromone (AH14), 17120
- C₃₄H₃₀O₉**
Kuwanon P, 12390
Kuwanon X, 12391
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Kuwanon Y, 12393
(5S,6S,7R,8S)-2-(2-Phenylethyl)-6,7,8-trihydroxy-5,6,7,8-tetrahydro-5-[2-(2-phenyl-ethyl)-7-hydroxy-chromonyl-6-oxy]-chromone (AH15), 17122
- C₃₄H₃₀O₁₅**
1,3,5-Tri-*O*-caffeoyl quinic acid, 21552
- C₃₄H₃₀O₁₈**
Trifuhalol A octaacetate, 21639
Triisofuhalol octaacetate, 21869
- C₃₄H₃₂FeN₄O₄⁺**
Hemin, 9345
- C₃₄H₃₂N₂O₅**
Coccoline, 3881
- C₃₄H₃₂N₂O₆**
Pangkorimine, 16604
- C₃₄H₃₂O₈**
rel-(1 α ,2 β)-Di-(2,6-dimethoxy-4-hydroxy)-benzoyl-*rel*-(3 α ,4 β)-diphenylcyclobutane, 5480
- C₃₄H₃₂O₉**
6''-Demethoxyneocalycopteron, 5051
- C₃₄H₃₂O₁₀**
(*rel*)-1 β ,2 α -Di-(2,4-dihydroxy-6-methoxybenzoyl)-3 β ,4 α -di-(4-methoxyphenyl)-cyclobutane, 5479
- C₃₄H₃₂O₁₁**
Anticancer Stilbenoid PMV70P691-041, 1445
Resveratrol (*E*)-dehydrodimer 11-*O*- β -D-glucopyranoside, 18645
Resveratrol (*E*)-dehydrodimer 11'-*O*- β -D-glucopyranoside, 18646
- C₃₄H₃₂O₁₂**
Dahuribirin F, 4602
- C₃₄H₃₃FeN₄O₅**
Hematin, 9338
- C₃₄H₃₄N₂O₁₆**
Gomphrenin V, 8930
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- C₃₄H₃₄N₄O₄**
Protoporphyrin, 17984
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Phellophyll a, 17076
- C₃₄H₃₄O₁₀**
Austrocolorin A₁, 2019
Austrocolorin B₁, 2020
Calyflorene D, 3009
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Singueanol I, 19933
Singueanol II, 19934
- C₃₄H₃₄O₁₃**
Dahuribirin B, 4598
Dahuribirin G, 4603
- C₃₄H₃₅O₁₉**
Cyanidin-3-*O*-(2''-*O*-galloyl-6''-*O*- α -rhamnopyranosyl- β -galactopyranoside), 4440
- C₃₄H₃₆N₂O₆**
Lindoldhamine, 12877
Pseudomorphine, 18052

- C₃₄H₃₆O₆**
Isovouacapenol E, 11780
- C₃₄H₃₆O₇**
Ingenol-3,20-dibenzoate, 11058
- C₃₄H₃₆O₈**
Phorbol-12-benzoate-13-benzoate, 17183
- C₃₄H₃₆O₁₀**
Yuanhuatin, 22933
- C₃₄H₃₆O₁₁**
Orbiculin F, 16165
- C₃₄H₃₆O₁₅**
Agnucastolide C, 752
- C₃₄H₃₇N₅O₆**
Longicalycinin A, 12954
- C₃₄H₃₈O₇**
Sarbronine B, 19357
- C₃₄H₃₈O₁₀**
Triptofordin D₁, 22002
- C₃₄H₃₈O₁₆**
Aloeresin C, 974
Pentaacetyl-6'-cinnamoyl catalpol, 16821
Senburiside I, 19699
- C₃₄H₃₈O₁₉**
Kaempferol-3-*O*-lysimachiatriside, 12066
- C₃₄H₃₉NO₁₁**
Kupitengester 1, 12336
- C₃₄H₃₉NO₁₂**
1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -benzoyloxy-11-acetoxy-4 β -hydroxydihydro- β -agarofuran, 15534
1 β ,5 α ,11-Triacetoxy-7 β -benzoyl-4 α -hydroxy-8 β -nicotinoyl-dihydroagarofuran, 21512
- C₃₄H₄₀N₂O₁₀**
10,11-Dimethoxy-1-methyldeacetylpicaline-3',4',5'-trimethoxy-benzoate, 6259
- C₃₄H₄₀N₄O₄**
Adouetine Y, 649
Scutianine B, 19590
- C₃₄H₄₀N₄O₅**
Scutianine D, 19592
Scutianine E, 19593
- C₃₄H₄₀O₈**
Isomoreollin B, 11542
Scortechinone H, 19553
- C₃₄H₄₀O₉**
Moreollic acid, 14970
Scortechinone B, 19547
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- C₃₄H₄₀O₁₀**
Scortechinone C, 19548
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Scortechinone M, 19558
- C₃₄H₄₀O₁₂**
Agrimol F, 755
Swietephragmin G, 20522
- C₃₄H₄₀O₁₄**
Myricanol galloyl glucoside, 15161
- C₃₄H₄₀O₁₆**
Javanicoside J, 11861
Yadanzioside M, 22872
- C₃₄H₄₀O₁₇**
Tabulalide A, 20581
- C₃₄H₄₀O₁₈**
Sagittatin B, 19126
- C₃₄H₄₀O₁₉**
Arillatose A, 1684
Glomeratose E, 8586
- C₃₄H₄₀O₂₀**
Viscumneoside VII, 22542
- C₃₄H₄₁NO₁₃**
1 α -Nicotinoyloxy-2 α -acetoxy-6 β -acetoxy-9 β -furoyloxy-11-isobutyryloxy-4 β -hydroxydihydro- β -agarofuran, 15536
- C₃₄H₄₁NO₁₇**
Anthemis glycoside B, 1353
- C₃₄H₄₂N₂O₄**
Belladonnine, 2218
- C₃₄H₄₂O₆**
Cowagarcinone A, 4195
- C₃₄H₄₂O₇**
Scortechinone A, 19546
Scortechinone J, 19555
Scortechinone L, 19557
- C₃₄H₄₂O₁₀**
Handelin, 9218
Scortechinone N, 19559
Scortechinone P, 19561
- C₃₄H₄₂O₁₁**
Hanburinone, 9207
- C₃₄H₄₂O₁₃**
PC-2004-65-2003-18, 16739
- C₃₄H₄₂O₁₈**
Isopodophyllotoxin 7'-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 11608
Neobudofficide, 15347
L-Picropodophyllin 7'-*O*-(β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside), 17340
Reinioside A, 18603
- C₃₄H₄₂O₁₉**
5,4'-Dihydroxy-7-methoxyflavone-3-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)-*O*- β -*D*-glucopyranoside], 5981
1,2-Di-*O*-*E*-sinapoyl- β -gentiobiose, 6508
3',6'-Disinapoylsucrose, 6511
Sibiricoside A₄, 19865
- C₃₄H₄₂O₂₀**
Isorhamnetin 3-*O*- α -*L*-rhamnopyranosyl-(1'' \rightarrow 2'')-[α -*L*-rhamnopyranosyl-(1'''' \rightarrow 6'')]- β -*D*-galactopyranoside, 11664
Isorhamnetin 3-*O*-[α -rhamnopyranosyl-(1 \rightarrow 4)- α -rhamnopyranosyl-(1 \rightarrow 6)- β -glucopyranoside], 11665
Isorhamnetin 3-*O*-2^G-rhamnosylrutinoside, 11667
Typhaneoside, 22154
- C₃₄H₄₂O₂₁**
Saprosmoside H, 19352
- C₃₄H₄₂O₂₂**
3-*O*-Methylquercetin-7-*O*-diglucoside-4'-*O*-glucoside, 14710
- C₃₄H₄₃NO₁₁**
Euphocharacin J, 7605
3,5,7,15-Tetraacetoxy-9-nicotinoyloxy-14-oxojatropha-6(17),11-diene, 21032
- C₃₄H₄₃NO₁₂**
Kansuinin G, 12143
- C₃₄H₄₃O₁₄**
Glehlinsoside A, 8545
- C₃₄H₄₃O₂₀⁺**
Cyanidin-3-sophoroside-5-glucoside, 4449
- C₃₄H₄₄O₉**
Neobonaspectin B, 15345
Salannin, 19177
- C₃₄H₄₄O₁₂**
Taccalonolide E, 20587
- C₃₄H₄₄O₁₃**
12-*O*-Deacetyltrichilin H, 4790
Taccalonolide F, 20588
Taccalonolide I, 20591
- C₃₄H₄₄O₁₄**
Taccalonolide K, 20593
7-(β -Xylosyl)-10-deacetylbaicatin III, 22846
- C₃₄H₄₄O₁₆**
Viburtinoside B, 22462
Viburtioside A, 22463
- C₃₄H₄₄O₁₉**
Arenarioside, 1663
Ehrenoside, 6718
Forsythoside B, 7925
Lavansulifolioside, 12579
Myricoside, 15189
Pedicularioside A, 16763
- C₃₄H₄₄O₂₀**
Aragoside, 1602
3,4-Dihydroxyphenylethanol-8-*O*-[4-*O*-*trans*-caffeoyl- β -*D*-apiofuranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside, 6079
Lavandulifolioside, 12577
- C₃₄H₄₅ClN₂O₁₁**

- Maytanbutacine, 13618
- C₃₄H₄₅NO₁₀**
Euphocharacin G, 7602
Euphocharacin K, 7606
- C₃₄H₄₆ClN₃O₁₀**
Maytansine, 13621
- C₃₄H₄₆O₆**
Revandchinone 1, 18669
- C₃₄H₄₆O₈**
Bisacutifolone A mono acetate, 2431
- C₃₄H₄₆O₉**
Cinobufagin-3-hydrogen suberate, 3730
12-*O*-Methylvolkensin, 14813
- C₃₄H₄₆O₁₃**
cis-Cleroda-3,13(14)-dien-15,16-olide-18-*O*-
[β -*D*-galactopyranosyl]-peracetyler, 3833
- C₃₄H₄₆O₁₄**
Jatrophane 7, 11843
- C₃₄H₄₆O₁₅**
1-Acetoxy-baccatin I, 129
1 β -Acetylbaaccatin IV, 328
4 α -Hydroxy-1 β ,2 β ,5 α -triacetoxy-7 β ,11-diiso-
butyryloxy-8 α -furanoyl-dihydroagarofuran,
10776
- C₃₄H₄₆O₁₆**
Bruceantinoside A, 2662
Yadanzioside N, 22873
Yadanzioside P, 22875
- C₃₄H₄₆O₁₇**
Bis[4-(β -*D*-glucopyranosyloxy) benzyl] (*S*)-2-
butylmalate, 2453
Tangshenoside III, 20674
Yadanzioside C, 22862
Yadanzioside L, 22871
- C₃₄H₄₆O₁₈**
Acanthoside D, 86
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- C₃₄H₄₆O₁₉**
(*E*)-Aldosecologanin, 878
(*Z*)-Aldosecologanin, 879
- C₃₄H₄₇NO₈**
8-Acetyl-14-benzoylchasmanine, 331
Crassicaudine, 4210
13-Deoxo-13 α -acetylxylo-1-deoxynortaxine B,
5138
Gymnaconitine, 9103
- C₃₄H₄₇NO₉**
13,15-Dideoxyaconitine, 5473
Penduline, 16803
- C₃₄H₄₇NO₁₀**
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Falaconitine, 7706
Indaconitine, 11012
- C₃₄H₄₇NO₁₁**
Aconitine, 554
Genculine, 8270
Polyschistine B, 17673
Polyschistine D, 17675
- C₃₄H₄₇NO₁₂**
Aconifine, 551
- C₃₄H₄₈N₂O₉**
Ajacine, 781
- C₃₄H₄₈O₇**
Fomitopsin B, 7864
Lanosta-7,9(11),24-trien-3 α ,15 α -diacetoxy-23-
oxo-26-oic acid, 12486
- C₃₄H₄₈O₈**
Corymbulosin A, 4111
Huratoxin, 9691
- C₃₄H₄₈O₉**
Daturametelin A, 4666
- C₃₄H₄₈O₁₀**
Daturametelin B, 4667
- C₃₄H₄₈O₁₁**
Ajugamarin G₁, 806
Ajugamarin H₁, 807
- C₃₄H₄₈O₁₃**
Dichotomoside D, 5430
- C₃₄H₄₈O₁₄**
Hyrcanoside, 10915
- C₃₄H₄₈O₁₆**
Nomilinic acid glucoside, 15657
- C₃₄H₄₈O₁₇**
Javanicoside K, 11862
- C₃₄H₄₈O₁₈**
(+)-Lyoniresinol-4,4'-bis-*O*- β -*D*-glucopyranoside,
13252
- C₃₄H₄₉N₅O₆**
Apicidin, 1475
- C₃₄H₅₀O₄**
Inophylloidiic acid, 11071
- C₃₄H₅₀O₅**
Argentatin G, 1670
- C₃₄H₅₀O₆**
Ganodermic acid R, 8190
Ganodermic acid S, 8191
Muscanone, 15124
- C₃₄H₅₀O₇**
Fomitopsin C, 7865
Tyromycic acid B, 22163
- C₃₄H₅₀O₈**
Fomitopsin A, 7863
- C₃₄H₅₀O₁₂**
Thapsigargin, 21279
- C₃₄H₅₀O₁₃**
Erychroside, 7296
- C₃₄H₅₀O₂₀**
Cornuside, 4062
- C₃₄H₅₂O₅**
Argentatin H, 1671
- C₃₄H₅₂O₆**
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- C₃₄H₅₂O₇**
Ganode-8-en-ric acid Ma, 8158
Ganode-8-en-ric acid W, 8161
- C₃₄H₅₂O₈**
Corymbulosin B, 4112
Corymbulosin C, 4113
(22*E*,24*R*)-5 α ,8 α -Epidioxyergosta-6,9,22-triene-
3 β -ol 3-*O*- β -*D*-glucopyranoside, 6902
30-Norhederagenin-3-*O*- α -*L*-arabinopyranoside,
15753
Periploside B, 16962
Phorbol-12-acetate-13-laurate, 17182
Phorbol-12-laurate-13-acetate, 17186
- C₃₄H₅₂O₉**
Periplocoside M, 16955
- C₃₄H₅₂O₁₀**
Coagulin Q, 3859
16 α ,24 α -Dihydroxy-12 β -acetoxy-25,26,27-trinor-
16,24-cycloartan-23-one 3 β -*O*- α -*L*-arabinopy-
ranoside, 5752
24-Hydroxy-12 β -acetoxy-25,26,27-trinorcyclo-
artan-16,23-dione 3 β -*O*- α -*L*-arabinopyranoside,
9762
Physagulin D, 17237
- C₃₄H₅₂O₁₁**
Cilistol U, 3645
Withanoside XI, 22714
- C₃₄H₅₂O₁₂**
Withanoside III, 22707
- C₃₄H₅₂O₁₃**
Erychrosol, 7297
- C₃₄H₅₂O₁₅**
Bipindogenin-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 4)- β -
D-allopyranoside, 2401
- C₃₄H₅₄O₆**
Ingenol-3-myristinate, 11061
Ingenol-20-myristinate, 11062
- C₃₄H₅₄O₇**
Rubianol E, 19005
- C₃₄H₅₄O₈**
5 α ,8 α -Epidioxy-24(*R*)-methylcholesta-6,22-
dien-3 β -*D*-glucopyranoside, 6907
- C₃₄H₅₄O₁₀**
Cilistol T, 3644
- C₃₄H₅₄O₁₂**
Cilistol p, 3641
- C₃₄H₅₄O₁₃**

- Styraxoside A, 20428
- C₃₄H₅₆O₄**
ent-15,16-Epoxy-3 β -myristoyloxy-kauran-2-one,
 7174
 Pisosterol, 17492
- C₃₄H₅₆O₉**
 Cilistol V, 3646
 Heminine, 9346
- C₃₄H₅₆O₁₁**
 Cilistol J, 3640
- C₃₄H₅₇NO₇**
 Ningpeinoside, 15614
- C₃₄H₅₇NO₈**
 Pingbeinoside, 17382
- C₃₄H₅₇NO₉**
 Pingbeidinoside, 17379
- C₃₄H₅₈O₄**
 Lignoceryl ferulate, 12801
- C₃₄H₅₈O₅**
 β -Sitosterol-3-*O*- β -D-xylopyranoside, 19992
- C₃₄H₅₈O₆**
 Campesteryl-D-glucoside, 3042
 24-Methylcholest-5-enyl-3 β -*O*-glucopyranoside,
 14240
- C₃₄H₅₈O₈**
 Eurylene, 7655
- C₃₄H₅₈O₁₂**
 Wattoside B, 22649
- C₃₄H₆₅NO₃**
 (4*E*,6*E*,2*S*,3*R*)-2-*N*-Eicosanoyl-4,6-tetra-
 decasphingadienine, 6723
 (2*S*,3*R*,4*E*,8*E*)-2-Hexadecanoylamino-4,8-
 octadecadien-1,3-diol, 9488
- C₃₄H₆₅NO₄**
 (2*S*,2'*R*,3*R*,4*E*,8*E*)-*N*-2'-Hydroxypentadecano-
 yl-2-amino-9-methyl-4,8-octadecadiene-1,3-
 diol, 10592
- C₃₄H₆₆O₃**
 Methyl-2 β (2*S*)-hydroxyl-7(*E*)-tritriacontenoate,
 14511
- C₃₄H₆₇NO₃**
 (4*E*,2*S*,3*R*)-2-*N*-Eicosanoyl-4-tetradecasphin-
 genine, 6724
- C₃₄H₆₈O₂**
 4-Acetyl-2-methoxy-5-methyltriacontane, 464
- C₃₄H₆₉NO₅**
 Trufflesphingolipid D, 22056
- C₃₄H₇₀**
 6-Methyl tritriacontane, 14794
- C₃₅H₁₈O₁₅**
 Norbadione A, 15717
- C₃₅H₂₆O₈**
 Upunaphenol E, 22236
- C₃₅H₂₆O₁₄**
S-(+)-Skyrin-6-*O*- α -arabinofuranoside, 20011
R-(-)-Skyrin-6-*O*- β -D-xylopyranoside, 20014
S-(+)-Skyrin-6-*O*- β -D-xylopyranoside, 20015
- C₃₅H₂₈O₁₀**
 Guangsangon G, 9059
 Oliveriflavone, 16086
- C₃₅H₂₈O₁₁**
 Guangsangon I, 9061
- C₃₅H₂₈O₁₇**
 Pelliatin, 16790
 Trilobatin K, 21886
- C₃₅H₂₈O₂₀**
 Quercetin-3-*O*-(2'',3''-digalloyl)- β -D-galactopy-
 ranoside, 18339
 Quercetin-3-*O*-(2'',6''-digalloyl)- β -D-galactopy-
 ranoside, 18340
- C₃₅H₂₈O₂₂**
 3,5-Di-*O*-galloyl-4-*O*-digalloylquinic acid, 5515
- C₃₅H₃₀O₆**
 Sinensol H, 19931
- C₃₅H₃₀O₁₀**
 Guangsangon C, 9055
 Guangsangon D, 9056
 Guangsangon M, 9065
 Guangsangon N, 9066
- C₃₅H₃₀O₁₁**
 Guangsangon K, 9063
 Kuwanon L, 12389
- C₃₅H₃₀O₂₂**
 Methyl 2,3,4,6-tetra-*O*-galloyl- β -D-glucopyra-
 noside, 14746
- C₃₅H₃₂N₂O₆**
 Normeniarine, 15777
 Philogaline, 17146
 Puertogaline B, 18188
- C₃₅H₃₂N₂O₇**
 Punjabine, 18207
- C₃₅H₃₂O₉**
 (5*S*,6*S*,7*R*,8*S*)-2-(2-Phenylethyl)-5,6,7-trihy-
 droxy-5,6,7,8-tetrahydro-8-[2-(2-phenyl-
 ethyl)-7-methoxychromonyl-6-oxy]chromone
 (AH12), 17121
- C₃₅H₃₂O₁₆**
 3*T*-*O*-Arabinopyranosyl-*ent*-epicatechin-(2 α \rightarrow 7,
 4 α \rightarrow 8)-catechin, 1564
- C₃₅H₃₄MgN₄O₅**
 Chlorophyllide a, 3568
- C₃₅H₃₄N₂O₅**
 Cocsuline, 3882
 Trilobine, 21887
- C₃₅H₃₄N₂O₆**
 Cocsuline, 3883
- (+)-Guatteboline, 9072
- C₃₅H₃₄O₆**
 Alpinnanin A, 986
 Alpinnanin B, 987
 Alpinnanin C, 988
 Magnolignan H, 13385
- C₃₅H₃₄O₇**
 Calyxin H, 3017
 Epicalyxin H, 6845
- C₃₅H₃₄O₈**
 Calyxin B, 3013
 Calyxin E, 3014
 Calyxin F, 3015
 Calyxin G, 3016
 Calyxin K, 3020
 Calyxin L, 3021
 Calyxin M, 3022
 Deoxycalyxin A, 5156
 Epicalyxin B, 6843
 Epicalyxin F, 6844
 Epicalyxin K, 6848
 Epicalyxin M, 6849
- C₃₅H₃₄O₉**
 Calyxin A, 3012
- C₃₅H₃₄O₁₀**
 Calycopterone, 3003
- C₃₅H₃₄O₁₁**
 Tricolorin A acetate, 21592
- C₃₅H₃₄O₁₈**
 Quercetin-3-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)-[2''-
O-(*E*)-*p*-coumaroyl]- β -D-galactopyranoside,
 18324
 Quercetin-3-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)-[2''-
O-(*E*)-*p*-coumaroyl]- β -D-glucopyranoside,
 18325
- C₃₅H₃₄O₁₉**
 Quercetin-3-*O*-(2-*E*-caffeyl)- α -L-arabinopyra-
 nosyl-(1 \rightarrow 2)- β -D-galactopyranoside, 18318
- C₃₅H₃₆N₂O₆**
 Trilobamine, 21877
- C₃₅H₃₆N₂O₉**
 Rocaglamide derivative 11, 18891
 Thapsakone A, 21277
 Thapsakone B, 21278
- C₃₅H₃₆O₁₁**
 Calyflorenone C, 3008
 6''-Epi-calyflorenone C, 6872
cis-*p*-Hydroxycinnamoylrutaevin, 9913
trans-*p*-Hydroxycinnamoylrutaevin, 9914
- C₃₅H₃₆O₁₂**
 Feroxin B, 7763
- C₃₅H₃₆O₁₄**
 (2*S*)-Pinoembrin 7-*O*-[cinnamoyl(1 \rightarrow 5)- β -D-

- apiosyl(1→2)]-β-D-glucoside, 17407
- C₃₅H₃₇NO₈**
Regelidine, 18577
- C₃₅H₃₈N₂O₆**
Berbamunine, 2301
- C₃₅H₃₈N₂O₉**
Isothapsakin B, 11739
Thapsakin B, 21276
- C₃₅H₃₈N₅O₂**
Chrysopentamine, 3614
- C₃₅H₃₈O₁₄**
Pinoresinol *O*-(6-*O*-(*E*)-caffeoyl]-β-D-glucopyranoside, 17410
- C₃₅H₃₈O₁₅**
Hymenoside F, 10849
- C₃₅H₃₈O₁₇**
Hymenoside G, 10850
Hymenoside H, 10851
- C₃₅H₃₈O₂₀**
Quercetin-3-*O*-[(2,3,4-triacetyl-α-rhamnopyranosyl)-(1→6)]-3-acetyl-β-galactopyranoside, 18400
Quercetin-3-*O*-[(2,3,4-triacetyl-α-rhamnopyranosyl)-(1→6)]-4-acetyl-β-galactopyranoside, 18401
- C₃₅H₃₉N₅O₄**
Integerrine, 11092
- C₃₅H₃₉N₅O₅**
Ergocristine, 7234
Ergocristinine, 7235
- C₃₅H₄₀O₆**
Artocommunol CB, 1811
- C₃₅H₄₀O₇**
Celastriane B, 3367
- C₃₅H₄₀O₈**
5α-Acetyl-1β,8α-bis-cinnamoyl-4α-hydroxydihydroagarofuran, 334
Arteminolide B, 1790
Arteminolide D, 1791
- C₃₅H₄₀O₉**
1β,2β-Diacetoxy-6α-benzoyloxy-9α-cinnamoyloxy-β-dihydroagarofuran, 5285
- C₃₅H₄₀O₁₀**
(1*R*,2*S*,4*S*,5*R*,7*R*,9*S*,10*R*)-1α-Benzoyloxy-2α,15-diacetoxy-4β-hydroxy-9β-cinnamoyloxy-β-dihydroagarofuran, 2254
Dantaxusin A, 4636
- C₃₅H₄₀O₁₁**
Schisantherin J, 19492
- C₃₅H₄₀O₁₂**
Triptofordin F₄, 22008
- C₃₅H₄₀O₁₃**
Triptofordin F₂, 22006
- C₃₅H₄₀O₁₆**
6-*O*-α-*L*-(2"-*O*-,3"-*O*-Dibenzoyl)rhamnopyranosylcatalpol, 5388
6-*O*-α-*L*-(2"-*O*-,4"-*O*-Dibenzoyl)rhamnopyranosylcatalpol, 5389
6-*O*-α-*L*-(3"-*O*-,4"-*O*-Dibenzoyl)rhamnopyranosylcatalpol, 5390
- C₃₅H₄₀O₁₇**
2-Methoxy-4-[(4-hydroxybenzoyl)phenol] 1-*O*-β-*D*-[5-*O*-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-*D*-glucopyranoside, 13949
- C₃₅H₄₀O₁₈**
5"-*O*-β-*D*-Glucopyranosylamarogentin, 8601
- C₃₅H₄₀O₁₉**
5"-*O*-β-*D*-Glucopyranosylamaroswerin, 8602
Hexaacetyl-6-vaniloil catalpol, 9477
Kaempferol-3-*O*-lysimachiatriside, 12067
- C₃₅H₄₀O₂₃**
Luteolin 7-*O*-[2-(β-*D*-apiofuranosyl)-4-(β-*D*-glucopyranosyl)-6-malonyl]-β-*D*-glucopyranoside, 13139
- C₃₅H₄₂N₂O₉**
Rescinnamine, 18630
Reserpine 2, 18635
- C₃₅H₄₂O₄**
Harunmadagascarin B, 9243
- C₃₅H₄₂O₇**
Plocigenin, 17562
- C₃₅H₄₂O₈**
Ethoxydihydroisomoreollin, 7401
Trichilin E, 21556
- C₃₅H₄₂O₉**
2-Deacetoxytaxinine B, 4707
1-Deacetyl nimbolinin A, 4755
Dibenzoylgagaimol, 5384
Scortechinone G, 19552
Taxinine, 20797
Taxuspine C, 20851
- C₃₅H₄₂O₁₀**
O-Cinnamoyltaxicin I triacetate, 3721
10-Deacetyl taxinine B, 4782
Taxezopidine J, 20788
Taxinine N,N-4, 20804
Taxuspine B, 20850
- C₃₅H₄₂O₁₂**
13-Deacetoxy-13,15-epoxy-11(15→1)-abeo-13-epi-baccatin VI, 4706
Swietephragmin F, 20521
3β,5α,8α,15β-Tetraacetoxy-7β-benzoyloxy-jatropha-6(17),11*E*-dien-9,14-dione, 21027
Trisdesaspidin BBB, 22032
Trisflavaspidic acid, 22033
- C₃₅H₄₂O₁₄**
1α,2α-Diacetoxy-8β-(β-furancarboxyloxy)-9α-benzoyloxy-13-isobutanoyloxy-4β,6β-dihydroxy-β-dihydroagarofuran, 5300
Sandrapin E, 19244
Taxinine M, 20803
- C₃₅H₄₂O₁₇**
Tabulalide B, 20582
Tabulalide D, 20584
- C₃₅H₄₂O₂₀**
Trifloroside, 21630
- C₃₅H₄₂O₂₁**
Kaempferol
3-*O*-α-*L*-(2-*O*-β-*D*-glucopyranosyl)rhamnopyranoside-7-*O*-β-*D*-(6-*O*-acetyl)glucopyranoside, 12054
Rindoside, 18848
- C₃₅H₄₂O₂₂**
Kaempferol 3-*O*-β-*D*-glucosyl(1→2)-(6"-*O*-acetyl)-β-*D*-galactoside 7-*O*-β-*D*-glucoside, 12063
- C₃₅H₄₃NO₁₃**
1α-Nicotinoyloxy-2α-acetoxy-6β-acetoxy-9β-furoyloxy-11-(2-methyl)butyryloxy-4β-hydroxydihydro-β-agarofuran, 15537
- C₃₅H₄₃N₅O**
Isostrychnopentamine, 11723
Strychnopentamine, 20415
- C₃₅H₄₄N₂O₉**
Rescinnamidine, 18629
- C₃₅H₄₄O₆**
Brasiliensophyllic acid A, 2591
Brasiliensophyllic acid B, 2592
Calophynic acid, 2991
Isobrasiliensophyllic acid A, 11262
Isobrasiliensophyllic acid B, 11263
- C₃₅H₄₄O₈**
5α-Cinnamoyloxy-9α,10β,13α-triacetoxytaxa-4(20),11-diene, 3717
- C₃₅H₄₄O₉**
Candletoxin A, 3074
5α-Cinnamoyloxy-7β-hydroxy-9α,10β,13α-triacetoxytaxa-4(20),11-diene, 3715
5α-Cinnamoyloxy-10β-hydroxy-2α,9α,13α-triacetoxytaxa-4(20),11-diene, 3716
Taxezopidine G, 20786
Taxezopidine H, 20787
- C₃₅H₄₄O₁₀**
9α-Acetyl-10β-deacetyl-spicate, 366
Scortechinone I, 19554
Spicate, 20161
Taxuspine M, 20860
- C₃₅H₄₄O₁₁**
Myrsinolute diterpene ester CPB51-719-1, 15215

- C₃₅H₄₄O₁₂**
Paraliane 12, 16652
Portlandicine, 17731
Taxchinin D, 20772
1 β ,5 α ,14 α ,17 α -Tetraacetoxy-3 β -benzoyloxy-15 β -hydroxy-9-oxoparaliane, 21026
- C₃₅H₄₄O₁₃**
4-Deacetyl-11(15 \rightarrow 1)-abeo-baccatin VI, 4710
10-Deacetyl baccatin VI, 4727
9-Deacetyl baccatin VI, 4728
Segetene 6, 19655
Taxayunnansin A, 20758
Taxchinin M, 20779
- C₃₅H₄₄O₁₄**
PC-2004-65-2003-19, 16740
Sandrapin C, 19242
- C₃₅H₄₄O₁₅**
Glehlinside B, 8546
Woorenoside IV, 22730
- C₃₅H₄₄O₁₆**
Azadirachtin, 2050
- C₃₅H₄₄O₁₈**
 α -D-(6-O-4-Methyl-3,5-dimethoxycinnamoyl)-glucopyranosyl-(1 \rightarrow 2)- β -D-(3-O-sinapoyl)-fructofuranose, 14320
Tabulalide E, 20585
- C₃₅H₄₄O₁₉**
Tenuifoliside C, 20957
- C₃₅H₄₅NO₁₁**
Euphocharacin I, 7604
- C₃₅H₄₆O₆**
Mesuaferrol, 13804
- C₃₅H₄₆O₈**
12-O-Cinnamoyl-20-O-tigloyl sarcostin, 3722
- C₃₅H₄₆O₁₀**
Bonaspectin A, 2541
Bonaspectin B, 2542
Nimbolinin B, 15612
- C₃₅H₄₆O₁₁**
Scortechinone O, 19560
Spirosendan, 20206
Turraflorin I, 22137
- C₃₅H₄₆O₁₂**
Meliatoxin B₁, 13672
- C₃₅H₄₆O₁₃**
Phlogacanthoside C, 17163
Trichilin A, 21553
- C₃₅H₄₆O₁₄**
Jatrophane 8, 11844
Yunantaxusin A, 22939
- C₃₅H₄₆O₁₇**
Ligupurpuroside B, 12818
- C₃₅H₄₆O₁₈**
Ligurobustoside N, 12823
Yadanzioside K, 22870
- C₃₅H₄₆O₁₉**
6'- β -D-Apiofuranosylcistanoside C, 1504
Jionoside E, 11886
Leonoside A, 12637
Ligupurpuroside A, 12817
Methyl epipodophyllate 7'-O- β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 14400
Teucroside-3'''-O-methylether, 21215
Teucroside, 21221
Verpectoside A, 22416
- C₃₅H₄₆O₂₀**
Caerulescenside, 2859
Purpureaside B, 18220
Purpureaside C, 18221
Verpectoside B, 22417
- C₃₅H₄₆O₂₁**
Persicoside, 16994
- C₃₅H₄₇NO₉**
9-Acetoxytaxine B, 284
10-Acetoxytaxine B, 285
- C₃₅H₄₇NO₁₀**
Liaconitine A, 12736
Taxine A, 20793
2 β ,13 α ,14 β -Trisdeacetylaustrotaxine, 22031
- C₃₅H₄₇N₅O₅**
Mauritine B, 13614
- C₃₅H₄₈ClN₃O₁₀**
Maytanprine, 13620
- C₃₅H₄₈N₈O₁₁S**
Phalloidin, 17040
- C₃₅H₄₈O₆**
Mesuanic acid, 13806
- C₃₅H₄₈O₁₃**
1 α ,2 α -Diacetoxy-8 β -isobutanoyloxy-9 α -benzoyloxy-13-(α -methyl)butanoyloxy-4 β ,6 β -dihydroxy- β -dihydroagarofuran, 5312
- C₃₅H₄₈O₁₄**
Jatrophane 10, 11846
- C₃₅H₄₈O₁₅**
1 α ,2 α ,6 β -Triacetoxy-8 β -isobutanoyloxy-9 β -(β -furanonyloxy)-13-(α -methyl)butanoyloxy-4 β -hydroxy- β -dihydroagarofuran, 21526
- C₃₅H₄₈O₁₇**
Javanicoside D, 11857
- C₃₅H₄₉NO₈**
13-Deoxo-13 α -acetyloxy-1-deoxytaxine B, 5139
Methyl gymnaconitine, 14478
- C₃₅H₄₉NO₉**
13-Deoxo-3 α -acetyloxytaxine B, 5140
Liaconitine C, 12738
2 β ,7 β ,9 α -Trisdeacetylaustrospicatin, 22030
- Vilmorrianine C, 22482
- C₃₅H₄₉NO₁₀**
Crassicauline A, 4211
- C₃₅H₄₉NO₁₁**
Yunaconitine, 22938
- C₃₅H₄₉NO₁₂**
Jesaconitine, 11867
- C₃₅H₅₀N₂O₉**
Trifoliolasine A, 21635
- C₃₅H₅₀O₄**
Pyrano-[7,28-*b*]hyperforin, 18250
- C₃₅H₅₀O₇**
Camangeloyl acid, 3024
- C₃₅H₅₂N₂O₄**
Semperviraminol, 19696
- C₃₅H₅₂O₄**
Hyperforin, 10883
- C₃₅H₅₂O₅**
Furohyperforin, 8026
8-Hydroxyhyperforin-8,1-hemiacetal, 10219
Lantadene A, 12490
Lantadene B, 12491
- C₃₅H₅₂O₆**
Camaric acid, 3025
2,7-Dihydroxy-8-methoxy-3,6-diundecyldibenzofuran-1,4-dione, 5975
2,8-Dihydroxy-7-methoxy-3,9-diundecyldibenzofuran-1,4-dione, 5976
Icterogenin, 10960
- C₃₅H₅₂O₇**
10-Hydroxy-4-O-methyl-2,11-diundecylgompholactone, 10485
- C₃₅H₅₂O₈**
Kudinoside J, 12306
Phorbol 12-tiglate 13-decanonate, 17194
Vilangin, 22478
- C₃₅H₅₂O₉**
Pentadecadienoic acid, 16828
- C₃₅H₅₂O₁₁**
16 β ,22R;21,23S-Diepoxy-3 β -O- β -D-glucopyranosyloxy-21S,24-dihydroxy-5 α -stigmasta-8,14-dien-28-one, 5493
Vernoguinsterol, 22410
- C₃₅H₅₂O₁₂**
Atratoglucoside A, 1991
3-O- β -D-Glucuronopyranosyl-2 β ,3 β ,16 β -trihydroxy-28-norolean-12-en-15-on-23-oic acid, 8767
- C₃₅H₅₂O₁₃**
(2R,3R,4R,5R,7S,8S,9S,11E,13S,15R)-2,3,5,7,8,9,15-Heptahydroxyjatrophane-6(17),11-diene-14-one-2,8,9-triacetate-7-isobutyrate-5-(2-methylbutyrate), 9399

- (2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,8,9-triacetate-2-isobutyrate-5-(2-methylbutyrate), 9400
- C₃₅H₅₂O₁₄**
Cheiranthoside X, 3497
Erysimoside, 7320
Olitoriside, 16084
- C₃₅H₅₂O₁₅**
Cheiranthoside VIII, 3495
Cheiranthoside IX, 3496
Convalloside, 4014
Securigenin-3*β*-*O*-[*α*-allosyl-(1→4)-*β*-6-deoxyalloside], 19637
- C₃₅H₅₄O₂**
Sugikurojin G, 20463
- C₃₅H₅₄O₃**
Sugikurojin H, 20464
- C₃₅H₅₄O₅**
Pachymic acid methyl ester, 16497
- C₃₅H₅₄O₆**
Hericenone C, 9431
Hericenone F, 9434
- C₃₅H₅₄O₇**
22-*O*-Angeloyl theasapogenol E, 1237
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]urs-12,18-dien-28-oic acid, 1587
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]-urs-12,19-dien-28-oic acid, 1588
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]-urs-12,19(29)-dien-28-oic acid, 1589
Fomitoside C, 7868
Ilexolide A, 10981
- C₃₅H₅₄O₈**
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]-19*β*-hydroxyurs-12,20(30)-dien-28-oic acid, 1582
Cimisine E, 3672
12-*O*-Decanoylphorbol-13-(2-methylbutyrate), 4839
Fomitoside A, 7866
Fomitoside B, 7867
Phorbol-12-*α*-methylbutyrate-13-caprate, 17188
- C₃₅H₅₄O₉**
7,8-Didehydrocimigenol 3-*O*-*β*-*D*-xylopyranoside, 5464
Gamboukokoenside B, 8131
- C₃₅H₅₄O₁₀**
Bugbanoside F, 2732
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3-*O*-*β*-*D*-Xylopyranosyl-esculentic acid, 22822
- C₃₅H₅₄O₁₁**
Esculentoside B, 7369
- Esculentoside E, 7372
- C₃₅H₅₄O₁₂**
2*α*,5*α*-Diacetoxy-14*β*-2'*α*-methylbutanoate-10*β*-*O*-(*β*-*D*-glucopyranosyl)taxa-4(20),11-diene, 5315
- C₃₅H₅₄O₁₃**
2*α*,5*α*-Diacetoxy-14*β*-(2'*S*,3'*R*)-3'-hydroxy-2'*α*-methylbutanoate-10*β*-*O*-(*β*-*D*-glucopyranosyl)taxa-4(20),11-diene, 5310
- C₃₅H₅₄O₁₄**
Erycordine, 7303
Erysimosol, 7321
Euonymoside A, 7535
Rhodexin C, 18787
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Sarmentogenin-3*β*-*O*-[*α*-allosyl-(1→4)-*β*-6-deoxyalloside], 19373
- C₃₅H₅₆O₅**
Lantaiursolic acid, 12492
- C₃₅H₅₆O₆**
22-*O*-Angeloyl theasapogenol B, 1236
- C₃₅H₅₆O₇**
O-Acetylpachymic acid-25-ol, 478
22-*O*-Angeloyl theasapogenol A, 1235
3-*O*-*α*-*L*-Arabinopyranosyloleanolic acid, 1576
Inermiside II, 11036
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- C₃₅H₅₆O₈**
3-*O*-*α*-*L*-Arabinopyranosyl-23-hydroxyursolic acid, 1573
3-*β*-*O*-*α*-*L*-Arabinopyranosyl jujubogenin, 1574
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]-19*α*-hydroxyolean-12-en-28-oic acid, 1579
3*β*-[(*α*-*L*-Arabinopyranosyl)oxy]-19*α*-hydroxyurs-12-en-28-oic acid, 1584
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Cimiaceroside B, 3649
Cimigenol 3-*O*-*α*-*L*-arabinopyranoside, 3659
Cimigenoside, 3661
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- C₃₅H₅₆O₁₀**
Cimisine A, 3670
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Pictoside B, 17351
- C₃₅H₅₆O₁₁**
12*β*,21-Dihydroxycimigenol 3-*O*-*α*-*L*-arabinopyranoside, 5790
- C₃₅H₅₆O₁₂**
Cilistol pl, 3642
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Deacetylmataplexigenin 3-*O*-*β*-*D*-oleandropyranosyl-(1→4)-*α*-*D*-oleandropyranoside, 4751
- C₃₅H₅₈O₆**
α-Spinasterol-*β*-*D*-glucoside, 20169
5,25-Stigmastadien-3*β*-ol-*β*-*D*-glucoside, 20346
Stigmasterol-*β*-*D*-glucoside, 20372
- C₃₅H₅₈O₇**
7-Oxositosteryl-*β*-*O*-glucopyranoside, 16422
- C₃₅H₅₈O₉**
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- C₃₅H₆₀O₃**
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- C₃₅H₆₀O₄**
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- C₃₅H₆₀O₆**
Bacosterol-3-*O*-*β*-*D*-glucopyranoside, 2095
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- C₃₅H₆₂O₃**
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- C₃₅H₆₂O₆**
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- C₃₅H₆₂O₇**
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- C₃₅H₆₂O₈**
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- C₃₅H₆₄O₇**
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- C₃₅H₆₄O₈**
 Annomoncin, 1306
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 Annopentocin B, 1321
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- C₃₅H₆₆O₆**
 Gardnerilin B, 8233
- C₃₅H₆₆O₈**
 Gardnerilin A, 8232
- C₃₅H₆₇NO₃**
 (2*S*,3*R*,4*E*,8*E*)-*N*-Hexadecanoyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol, 9487
- C₃₅H₆₇NO₄**
 (2*S*,3*R*,4*E*,8*E*)-[(2'*R*)-2'-Hydroxyheptadecanoyl-amino]-4,8-octadecadiene-1,3-diol, 10158
- C₃₆H₂₂O₁₈**
 6,6'-Bieckol, 2366
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- C₃₆H₂₆O₁₀**
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 Balanophotannin C, 2129
- C₃₆H₂₈K₂O₁₆**
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 Neo-przewaquinone A, 15453
- C₃₆H₂₈O₁₂**
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- C₃₆H₂₈O₁₅**
R-(-)-Skyrin-6-*O*- β -glucopyranoside, 20012
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- C₃₆H₂₈O₁₆**
 Schizotenuin A, 19510
- C₃₆H₂₈O₂₁**
 1-*O*-(*E*)-Caffeoyl-3-*O*-galloyl-4,6-(*S*)-HHDP- β -*D*-glucopyranose, 2904
- C₃₆H₂₉KO₁₆**
 NP02140176-38-K, 15850
 NP02140176-42-K, 15854
- C₃₆H₂₉NaO₁₆**
 NP02140176-39-Na, 15851
- C₃₆H₃₀MgO₁₆**
 Lithospermate B, 12924
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- C₃₆H₃₀O₄**
 Dineolignan, 6423
- C₃₆H₃₀O₁₄**
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- C₃₆H₃₀O₁₅**
 Podoverin B, 17598
 Spicataside, 20158
- C₃₆H₃₀O₁₆**
 1,3-Bis-[2-(3,4-dihydroxyphenyl)-1-carboxy]ethoxycarbonyl-2-(3,4-dihydroxyphenyl)-7,8-di-hydroxy-1,2-dihydronaphthalene, 2444
 Danshensuan B, 4631
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 NP02140176-40, 15852
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- C₃₆H₃₀O₂₁**
 6-*O*-(*E*)-Caffeoyl-1,3,4-tri-*O*-galloyl- β -*D*-glucopyranose, 2929
- C₃₆H₃₂N₂O₄**
 Kwangsine, 12396
- C₃₆H₃₂N₂O₈**
 Oriciacridone F, 16182
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 1,3,6-Tri(4-hydroxybenzyl)-4-methoxydihydrophenanthrene-2,7-diol, 21690
- C₃₆H₃₂O₁₀**
 Angustifolin A, 1246
- C₃₆H₃₂O₁₅**
 3,8"-Binaringenin-7"-*O*- β -glucoside, 2383
- C₃₆H₃₂O₁₆**
 Xanthochymusside, 22760
- C₃₆H₃₃O₁₆**
 Salvianolic Acid B, 19202
- C₃₆H₃₄N₂O₆**
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- C₃₆H₃₆N₂O₅**
 Isotrilobine, 11747
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- C₃₆H₃₆N₂O₆**
 Cepharanoline, 3411
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O-Methyldeoxopunjabine, 14289
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- C₃₆H₃₆O₆**
 Magnolignan F, 13383
- C₃₆H₃₆O₈**
 Magnolignan G, 13384
- C₃₆H₃₆O₁₁**
 3'-Prenyl-4'-methoxy-isoflavone-7-*O*- β -*D*-(2''-*O*-*p*-coumaroyl)glycopyranoside, 17838
- C₃₆H₃₆O₁₆**
 Luteoliflavan-(4 β →8)-eriodictyol-5-glucoside, 13136
- C₃₆H₃₆O₁₇**
 Isovitexin 2''-*O*-(6'''-*E*)-*p*-coumaroyl)glucoside, 11774
 Kaempferol 3-*O*- α -*L*-[6'''-*p*-coumaroyl-(β -*D*)-glucopyranosyl-(1,2)-rhamnopyranoside], 12032
 Kaempferol 3-*O*- α -*L*-rhamnopyranosyl(1→6)-(4-*O*-*trans*-*p*-coumaroyl)- β -*D*-galactopyranoside, 12072
 Procyanidin B₁-6-*C*- β -*D*-glucopyranoside, 17878
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- C₃₆H₃₆O₁₈**
 Kaempferol 3-*O*- β -(6''-*E*-*p*-coumaroyl)glucopyranoside)-7-*O*- β -glucopyranoside, 12031
 Quercetin-3-*O*- α -*L*-[6'''-*p*-coumaroyl-(β -*D*)-glucopyranosyl-(1,2)-rhamnopyranoside], 18335
 Quercetin-3-*O*- α -*L*-rhamnopyranosyl(1→6)-(3-*O*-*trans*-*p*-coumaroyl)- β -*D*-galactopyranoside, 18381
 Quercetin-3-*O*- α -*L*-rhamnopyranosyl(1→6)-(4-*O*-*trans*-*p*-coumaroyl)- β -*D*-galactopyranoside, 18382
- C₃₆H₃₆O₁₉**
 Quercetin-3-*O*- β -(6''-*E*-*p*-coumaroyl)glucopyranoside)-7-*O*- β -glucopyranoside, 18334
- C₃₆H₃₇O₁₈⁺**
 Shisonin, 19838
- C₃₆H₃₇O₁₉⁺**
 Caffeoilcyanin, 2896
- C₃₆H₃₈N₂O₆**
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- C₃₆H₃₈N₂O₈**
 Wilforcidine, 22674
- C₃₆H₃₈N₂O₉**
 Heterophylline, 9470
- C₃₆H₃₈N₂O₁₀**
 Thapoxepine A, 21274
- C₃₆H₃₈N₂O₁₁**
 Rhynchophine, 18824
- C₃₆H₃₈N₄O₅**
 Methyl pheophorbide a, 14673
- C₃₆H₃₈O₈**
 Tinyatoxin, 21402
- C₃₆H₃₈O₁₁**
 6''-Epi-calyflorene B, 6871
 Voamatin D, 22601
- C₃₆H₃₈O₁₅**
 Glycerol sinapate, 8811
- C₃₆H₄₀N₂O₆**
 Dauricoline, 4687
- C₃₆H₄₀N₂O₈**
 Elliptifoline, 6760
- C₃₆H₄₀N₂O₉**
 Homothapsakin A, 9623
- C₃₆H₄₀O₁₀**
 Orthosiphon N, 16232
 Orthosiphonone D, 16244
- C₃₆H₄₀O₁₁**
 Voamatin A, 22598
 Voamatin B, 22599
- C₃₆H₄₀O₁₂**
 1-*O*-3,4-Dimethoxy-phenylethyl-4-*O*-3,4-dimethoxy cinnamoyl-6-*O*-cinnamoyl- β -*D*-glucopyranose, 6285
- C₃₆H₄₀O₁₉**
 Ciliatoside A, 3638
 Patavine, 16703
- C₃₆H₄₁NO₇**
 Aristoloin II, 1722
- C₃₆H₄₁NO₁₄**
 1 β ,2 β ,5 α ,11-Tetraacetoxy-8 α -benzoyl-4 α -hydroxy-7 β -nicotinoyl-dihydroagarofuran, 21023
- C₃₆H₄₂N₂**
 Caulindole C, 3338
 Caulindole D, 3339
- C₃₆H₄₂N₂O₉**
 3'-Hydroxyaglaine B, 9768
 3'-Hydroxyaglaine C, 9769
- C₃₆H₄₂N₂O₁₀**
 3',19-Dihydroxyaglaine C, 5753
- C₃₆H₄₂O₁₀**
 7-*O*-Deacetylorthosiphon B, 4759
 Orthosiphon K, 16229
 Orthosiphon T, 16235
 Orthosiphon X, 16239
- C₃₆H₄₂O₁₁**
 Taxayuntin A, 20759
 Triptofordin D₂, 22003
- C₃₆H₄₂O₁₉**
 3'''-*O*-Glucosylsenburiside II, 8758
- C₃₆H₄₂O₂₃**
 Kaempferol 3-*O*- α -*L*-(2-*O*- β -*D*-glucopyranosyl)-rhamnopyranoside-7-*O*- β -*D*-(6-*O*-malonyl)-glucopyranoside, 12056
- C₃₆H₄₃NO₈**
 Gagaminine, 8046
- C₃₆H₄₃NO₁₅**
 1 β -Nicotinoyl-2 β ,5 α ,7 β -triacetoxy-4 α -hydroxy-11-isobutyryloxy-8 α -furanoyl-dihydroagarofuran, 15538
- C₃₆H₄₃NO₁₇**
 Evonine, 7671
- C₃₆H₄₃O₂₄⁺**
 Cyanidin-3-*O*-(3''-*O*- β -glucopyranosyl-6''-*O*-malonyl- β -glucopyranoside)-4'-*O*- β -glucopyranoside, 4443
 Cyanidin-7-*O*-(3''-*O*- β -glucopyranosyl-6''-*O*-malonyl- β -glucopyranoside)-4'-*O*- β -glucopyranoside, 4444
- C₃₆H₄₄N₂O₇**
 Nigellamine A₄, 15564
- C₃₆H₄₄N₂O₁₁**
 14-Demethyl-14-acetylanhweidelphinine, 5056
- C₃₆H₄₄O₁₂**
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 Agrimol G, 756
 Filixic acid BBB, 7798
 Japonicin D, 11820
 Swietephragmin D, 20519
 Trisaspidin, 22029
- C₃₆H₄₄O₁₄**
 Sandrapin D, 19243
 Taccalonolide H, 20590
- C₃₆H₄₄O₁₅**
 Dracunculifoside R, 6597
- C₃₆H₄₄O₁₆**
 Epimedokoreanoside II, 6963
- C₃₆H₄₄O₂₀**
 5-Hydroxy-4-methoxy-flavone-7-*O*- α -*L*-rhamnopyranosyl-(1→6)[2-*O*-acetyl- β -*D*-glucopyranosyl-(1→2)]- β -*D*-glucopyranoside, 10405
 Telephiose A, 20907
 Telephiose B, 20908
- C₃₆H₄₄O₂₂**

- Bis-iridoid glucoside, 2477
- C₃₆H₄₄O₂₂S₂**
Dimer iridoid glucoside 12, 6197
- C₃₆H₄₅NO₁₈**
Wilfordlongine, 22678
Wilfordine, 22681
- C₃₆H₄₆O₆**
Brasiliensophylllic acid C, 2593
Inocalophyllin A methyl ester, 11064
Isobrasiliensophylllic acid C, 11264
- C₃₆H₄₆O₁₁**
Neobonaspectin A, 15344
- C₃₆H₄₆O₁₄**
Sandrapin B, 19241
Taccalonolide J, 20592
Trichilin H, 21554
- C₃₆H₄₆O₁₅**
Taccalonolide L, 20594
- C₃₆H₄₆O₁₆**
Umbilicaxanthoside B, 22198
- C₃₆H₄₆O₁₉**
Glomeratose D, 8585
- C₃₆H₄₇NO₁₁**
Euphocharacin H, 7603
- C₃₆H₄₈CIN₃O₁₀**
Normaytancyprine, 15776
- C₃₆H₄₈N₂O₁₀**
Lycaconitine, 13169
- C₃₆H₄₈N₆O₇**
Dianthin C, 5367
- C₃₆H₄₈O₅**
Oleoyl danshenxinkun A, 16072
- C₃₆H₄₈O₉**
(±)-Schefflone, 19464
- C₃₆H₄₈O₁₁**
15-*O*-Deacetylnimbolidin B, 4754
- C₃₆H₄₈O₁₄**
1 α ,2 α ,6 β -Triacetoxo-8 α ,13-diisobutanoyloxy-9 β -benzoyloxy-4 β -hydroxy- β -dihydroagarofuran, 21517
- C₃₆H₄₈O₁₆**
Phyllanthostatin 6, 17218
- C₃₆H₄₈O₁₈**
Yadanzioside G, 22866
- C₃₆H₄₈O₁₉**
Angoroside C, 1241
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Teucrioside-3''',4'''-*O*-dimethylether, 21214
- C₃₆H₄₈O₂₀**
Cistanoside A, 3751
- Jionoside A₂, 11881
Verpectoside C, 22418
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- C₃₆H₄₈O₂₁**
Scroside A, 19572
- C₃₆H₄₉NO₈**
Leueantine B, 12729
- C₃₆H₄₉NO₉**
Leueantine A, 12728
- C₃₆H₄₉NO₁₂**
3-Acetylaconitine, 304
- C₃₆H₄₉N₅O₅**
Amphibine D, 1081
- C₃₆H₄₉N₇O₁₀**
Glabrin D, 8495
- C₃₆H₅₀CIN₃O₁₀**
Maytanbutine, 13619
- C₃₆H₅₀N₂O₁₁**
Puberaconitine, 18167
- C₃₆H₅₀O₄**
Physanol A, 17245
- C₃₆H₅₀O₁₈**
Javanicoside E, 11858
- C₃₆H₅₁NO₁₀**
Veratrolyl zygadenine, 22395
- C₃₆H₅₁NO₁₁**
Bikhaconitine, 2372
Polyschistine A, 17672
- C₃₆H₅₁NO₁₂**
Pseudoaconitine, 18017
- C₃₆H₅₁N₃O₁₀**
Awadcharidine, 2042
Trifoliolasine B, 21636
- C₃₆H₅₂N₂O₉**
Jiufengdine, 11887
- C₃₆H₅₂N₄O₁₀**
Bufotalin 3-succinoylarginine ester, 2724
- C₃₆H₅₂O₄**
Physanol B, 17246
- C₃₆H₅₂O₆**
Hericenone H, 9436
- C₃₆H₅₂O₇**
Methylanhydrovilangin, 14140
- C₃₆H₅₂O₈**
Mancinellin, 13476
- C₃₆H₅₂O₁₀**
Khekadaengoside G, 12214
Khekadaengoside H, 12215
- C₃₆H₅₂O₁₁**
Khekadaengoside C, 12210
Khekadaengoside I, 12216
3,11,22-Trioxo-16 α -hydroxy-(20*S*,24)-epoxy-cucurbit-5,23-diene-2 β -*O*- β -*D*-glucopyranoside, 21985
- C₃₆H₅₂O₁₃**
Scillaren A, 19518
Scillirubrosidin 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranoside, 19530
- C₃₆H₅₂O₁₄**
Baccatin VII, 2078
- C₃₆H₅₂O₁₅**
Hellebrin, 9330
- C₃₆H₅₃NO₁₂**
Nervosine, 15511
- C₃₆H₅₃N₇O₈**
Dianthin D, 5368
- C₃₆H₅₄N₂O₆**
6'',7''-Dihydro-5',5'''-dicapsaicin, 5588
- C₃₆H₅₄O₆**
Camaryolic acid, 3028
- C₃₆H₅₄O₈**
Methylvilangin, 14809
Synaptolepis factor K₁, 20550
- C₃₆H₅₄O₁₀**
Abrusoside A, 31
3-*O*- β -*D*-Glucuronopyranosyl gypsogenin, 8765
Vaccaroside, 22303
- C₃₆H₅₄O₁₂**
Arvenin III, 1827
Bryoamaride, 2686
Khekadaengoside D, 12211
Khekadaengoside E, 12212
- C₃₆H₅₄O₁₃**
Cucurbitacin J 2-*O*- β -glucopyranoside, 4325
Cucurbitacin K 2-*O*- β -glucopyranoside, 4326
(2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,8,9-triacetate-2,5-bis(2-methylbutyrate), 9398
Khekadaengoside F, 12213
Periforoside I, 16924
- C₃₆H₅₄O₁₅**
Strophanthidin- β -*D*-glucosyl-(1 \rightarrow 4)- β -*D*-digitolide, 20400
Strophanthin, 20402
- C₃₆H₅₅NO₁₁**
Neogermitrine, 15396
- C₃₆H₅₅N₇O₈**
Pseudostellarin D, 18067
- C₃₆H₅₆N₂O₅**
(-)-Buxakashmiramine, 2815
- C₃₆H₅₆O₇**
Fomitoid D, 7869
- C₃₆H₅₆O₈**
Phorbol-12-butyrate-13-laurate, 17184
Phorbol-4-methoxy-12-myristate-13-acetate,

- 17187
- C₃₆H₅₆O₉**
Calendula officinalis Glycoside F, 2973
 Cimifoetiside III, 3657
 Eriocarpin C, 7274
 Quinovic acid 3 β -*O*- β -*D*-quinovopyranoside, 18439
 Quinovic acid 3 β -*O*- α -*L*-rhamnopyranoside, 18442
- C₃₆H₅₆O₁₀**
 Dianoside H, 5365
 Hederagenin-3-*O*- β -glucuronopyranoside, 9265
 12 β -Hydroxylcimigenol
 3-*O*- α -*L*-arabinopyranoside, 10316
 Myrioside B, 15199
 Periplocoside O, 16957
 Phytolaccoside A, 17268
 Quinovic acid 27-*O*- β -*D*-glucopyranosyl ester, 18430
 2 α ,3 β ,24-Trihydroxyurs-12,18-dien-28-oic acid
 28-*O*- β -*D*-glucopyranosyl ester, 21860
- C₃₆H₅₆O₁₁**
 Dianoside F, 5363
 28-*O*- β -*D*-Glucopyranosyl-2 α -3 β -dihydroxy-
 olean-12-ene-24,28-dioic acid, 8621
 Phytolaccoside B, 17269
- C₃₆H₅₆O₁₂**
 Odoroside D, 16007
 Suavissimoside R₁, 20433
 Tenuifolin, 20939
- C₃₆H₅₆O₁₃**
 Odorobioside G, 16004
 Odoroside F, 16008
 Periplocin, 16943
 Thevebioside, 21322
 Tirlocularoside A, 21403
 2 α ,3 α ,23-Trihydroxyurs-12-en-24,28-dioic acid
 28- β -*D*-glucopyranosylester, 21861
- C₃₆H₅₈O₆**
 20-Hexadecanoylingenol, 9489
 Ingenol-20-hexadecanoate, 11059
 Ingenol-3-hexadecanoate, 11060
- C₃₆H₅₈O₇**
 α -*L*-Rhamnopyranosyl-3 β -hydroxy-lup-20(29)-
 en-28-oic acid, 18728
- C₃₆H₅₈O₈**
 Fomitoside I, 7874
 3-*O*- β -*D*-Galactopyranosyloleanolic acid, 8065
 Ilexoside B methyl ester, 10982
 Oleanolic acid-28-*O*- β -*D*-glucopyranoside, 16052
 Prosaikogenin F, 17941
 Prosaikogenin G, 17942
- C₃₆H₅₈O₉**
 3 β ,19 α -Dihydroxyurs-12-en-28-oic acid 28- β -*D*-
 glucopyranosyl ester, 6176
 Ecliptasaponin A, 6705
 Ecliptasaponin D, 6707
 3-*O*- β -*D*-Glucopyranosyl-23-hydroxyursolic
 acid, 8679
 16 β -Hydroxy-18 β *H*-oleanolic acid-28-*O*- β -*D*-
 glucopyranoside, 10551
 Longispinogenin 3-*O*- β -*D*-glucuronopyranoside,
 12981
 Lucyoside Q, 13064
 25-*O*-Methoxycimigenol 3-*O*- α -*L*-arabinopyra-
 noside, 13881
 25-*O*-Methylcimigenoside, 14244
 Pomolic acid-28-*O*- β -*D*-glucopyranoside, 17698
 Prosaipogenin CP_{2a}, 17944
 Soyasapogenol B monoglucuronide, 20117
- C₃₆H₅₈O₁₀**
 Arjunic acid-28-*O*-glucoside, 1735
 Cimiside F, 3673
 21-*O*- β -*D*-Glucopyranosyl-3 β ,21 α ,30-trihydroxy-
 olean-13(18)-en-24-oic acid, 8745
 Lucyoside N, 13063
 Pedunculoside, 16766
 Rosamultin, 18916
 2 α ,3 α ,19 α -Trihydroxyurs-12-en-28-oic acid
 28- β -*D*-glucopyranosyl ester, 21864
 2 α ,3 α ,24-Trihydroxyurs-12-en-28-oic acid-28-
O- β -*D*-glucopyranosyl ester, 21865
 Vulgarsaponin, 22621
- C₃₆H₅₈O₁₁**
 Arjunglucoside I, 1733
 Lucyoside R, 13062
 Niga-ichigoside F₁, 15539
 Niga-ichigoside F₂, 15540
 Pruvuloside B, 18007
 Sericoside, 19758
 2 α ,3 β ,23,29-Tetrahydroxyolean-12-en-28-oic
 acid 29-*O*- β -*D*-glucopyranoside, 21145
- C₃₆H₅₈O₁₂**
 3-*O*- β -*D*-Glucopyranosyl platycodigenin, 8711
- C₃₆H₆₀O₂**
 Cynanester A, 4554
- C₃₆H₆₀O₄**
ent-15,16-Epoxy-2 β -palmitoyloxy-kauran-2-one,
 7185
ent-15,16-Epoxy-3 α -palmitoyloxy-kauran-2-one,
 7186
 2-*n*-Pentacosyl-5,7-dihydroxy-6,8-dimethyl
 chromone, 16826
- C₃₆H₆₀O₈**
 Ginsenoside Rh₄, 8439
- Rubianoside II, 19008
- C₃₆H₆₀O₉**
 Ginsenoside Rh₅, 8440
 Ginsenoside Rh₇, 8442
 Ginsenoside Rh₈, 8443
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 Kahiricoside II, 12107
 Rubianoside III, 19009
- C₃₆H₆₀O₁₀**
 Beesioside G, 2198
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- C₃₆H₆₂O₄**
 Hexacosanyl ferulate, 9482
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- C₃₆H₆₂O₈**
 20(*R*)-Ginsenoside-Rh₂, 8436
 20(*S*)-Ginsenoside Rh₂, 8437
- C₃₆H₆₂O₉**
 Ginsenoside F₁, 8410
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 20(*S*)-Ginsenoside Rh₁, 8435
 Gynosaponin TN₁, 9115
 Gypenoside LXXXVI, 9178
 Sanchinoside B₁, 19233
 (20*S*)-12 β ,16 β -Trihydroxydammar-24-ene-3 β -*O*-
 β -glucopyranoside, 21699
- C₃₆H₆₂O₁₀**
 Gycomoside III, 9096
 Momorcharaside B, 14908
 (24*S*)-Pseudoginsenoside RT₄, 18026
 Trilocularol A 3-glucoside, 21891
- C₃₆H₆₂O₁₁**
 Ginsenoside Rh₆, 8441
- C₃₆H₆₂O₃₁**
 Lantanose B, 12495
 Lycopose, 13224
- C₃₆H₆₄O₁₄**
 2,3,4-Tri(6-methylheptanoyl)- α -*D*-glucopyranos-
 yl- β -*D*-fructofuranoside, 21962
- C₃₆H₆₈N₂O₃**
 Secojuliprosopinal, 19621
- C₃₆H₆₉NO₃**
 (4*E*,6*E*,2*S*,3*R*)-2-*N*-Docosanoyl-4,6-tetra-
 decasphingadienine, 6538
- C₃₆H₇₀O₂**
 3-Methoxy-5-acetyl-31-tritriacontene, 13835
- C₃₆H₇₂O₂**
 Pentyl hentriacontanoate, 16894
- C₃₆H₇₃NO₄**
 (2*S*,3*S*,4*R*)-*N*-[2-(1,3,4-Trihydroxy-octadecan-
 yl)]-octadecamide, 21820
- C₃₇H₃₀N₂O₉**
 (+)-Ovihermangerine, 16282

- C₃₇H₃₀O₇**
Blestrianol C, 2507
- C₃₇H₃₀O₉**
Globulixanthone E, 8557
- C₃₇H₃₀O₁₆**
Procyanidin B₁ 3'-*O*-gallate, 17877
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- C₃₇H₃₀O₁₇**
Epigallocatechin-(4β→8)-epicatechin-3-*O*-gallate ester, 6922
- C₃₇H₃₂O₇**
Blestrianol B, 2506
- C₃₇H₃₄N₂O₇**
Oxofangchirine, 16332
Simulanoquinoline, 19904
- C₃₇H₃₄O₂₀**
4'-*O*-[2'-*O*-*E*-Feruloyl-*O*-β-*D*-glucuronopyranosyl(1→2)-*O*-β-*D*-glucuronopyranoside]apigenin, 7775
- C₃₇H₃₆N₂O₇**
Isothamidine, 11737
- C₃₇H₃₆N₂O₈**
Secocepharanthine, 19608
- C₃₇H₃₆O₁₂**
Curtisian E, 4401
- C₃₇H₃₆O₂₂**
Quercetagetin 7-methylether-3-*O*-[2-*O*-caffeoyl-β-*D*-glucopyranosyl(1→2)-*O*-β-*D*-glucuronopyranoside], 18311
- C₃₇H₃₇N₂O₆⁺**
Fenfangjine D, 7754
- C₃₇H₃₈N₂O₆**
Cepharanthine, 3412
Cissampareine, 3748
Coelobine, 3879
Epistephanine, 7024
(-)-Medelline, 13634
- C₃₇H₃₈N₄O₇**
Petasiphyll A, 17014
- C₃₇H₃₈O₁₇**
6''-*p*-Coumaroylspinosin, 4187
- C₃₇H₃₈O₁₈**
Isorhamnetin 3-*O*-α-*L*-[6''-*p*-coumaroyl-β-*D*-glucopyranosyl-(1,2)-rhamnopyranoside], 11654
Isoscoparin 2''-*O*-(6''-(*E*)-*p*-coumaroyl)glucoside, 11700
- C₃₇H₃₈O₁₉**
Isorhamnetin 3-*O*-β-(6''-*E*-*p*-coumaroylglucopyranoside)-7-*O*-β-glucopyranoside, 11653
Kaempferol 3-*O*-[(6-*O*-feruloyl)-β-*D*-glucopyranosyl-(1→2)-β-*D*-galactopyranoside], 12046
- Kaempferol 3-*O*-[2-*O*-[(*trans*-3-methoxy-4-hydroxycinnamoyl)]-β-*D*-galactopyranosyl-(1→4)-*O*-β-*D*-glucopyranoside, 12068
- Kaempferol 3-*O*-[2-*O*-[(*trans*-3-methoxy-4-hydroxycinnamoyl)]-β-*D*-glucopyranosyl-(1→6)-*O*-β-*D*-glucopyranoside, 12069
- Ozturkoside B, 16483
- C₃₇H₃₈O₂₀**
Quercetin-3-*O*-[(6-*O*-feruloyl)-β-*D*-glucopyranosyl-(1→2)-β-*D*-galactopyranoside], 18354
Quercetin-3-*O*-[2-*O*-(6-*O*-*E*-feruloyl)-β-*D*-glucopyranosyl]-β-*D*-glucopyranoside, 18355
- C₃₇H₄₀N₂O₆**
(+)-Antioquine, 1459
(-)-Antioquine, 1460
Berbamine, 2300
Fangchinoline, 7714
Hayatidine, 9250
Hayatinine, 9252
Homoaromoline, 9597
Menisidine, 13714
(+)-4''-*O*-Methylcurine, 14266
(+)-2-Norisotetrandrine, 15764
Oxyacanthine, 16439
Thalicberine, 21240
Thalictine, 21248
Thalifortine, 21256
Thalmine, 21264
Thalrugosine, 21270
Tiliageine, 21390
- C₃₇H₄₀N₂O₇**
N-Desmethylthalidezine, 5260
- C₃₇H₄₀N₂O₁₀**
Thapsakin A 10-*O*-acetate, 21275
- C₃₇H₄₀O₉**
Resiniferatoxin, 18639
- C₃₇H₄₀O₁₃**
Ixerochinoside, 11803
- C₃₇H₄₀O₂₁**
Quercetin-3-*O*-[(2,3,4-triacetyl-α-rhamnopyranosyl)-(1→6)]-3,4-diacetyl-β-galactopyranoside, 18402
- C₃₇H₄₁NO₁₀**
3,12-Diacetyl-7-benzoyl-8-nicotinoylingol, 5326
- C₃₇H₄₂N₂O₆**
Dauricoline, 4686
Daurinoline, 4688
Daurisoline, 4693
Isoliensinine, 11491
Liensinine, 12798
(+)-Thaligrisine, 21258
- C₃₇H₄₂N₂O₆²⁺**
(+)-Tubocurarine, 22091
- C₃₇H₄₂O₁₀**
Odoratin, 15999
- C₃₇H₄₂O₁₂**
Norstaminol A, 15795
- C₃₇H₄₂O₁₃**
Triptofordin F₁, 22005
- C₃₇H₄₂O₁₄**
Triptofordin F₃, 22007
- C₃₇H₄₂O₁₇**
6-*O*-α-*L*-(2''-*O*-Benzoyl,3''-*O*-*trans*-*p*-coumaroyl)rhamnopyranosylcatalpol, 2234
- C₃₇H₄₃NO₈**
Aristoloin I, 1721
- C₃₇H₄₃NO₉**
Euphoheliosnoid A, 7608
Euphoheliosnoid B, 7609
- C₃₇H₄₃NO₁₀**
Euphocharacin E, 7600
- C₃₇H₄₃NO₁₁**
Euphocharacin B, 7597
Euphocharacin L, 7607
- C₃₇H₄₄N₂O₁₀**
19-Hydroxy-3'-methoxyaglaine C, 10379
- C₃₇H₄₄N₄O₆**
N₁,N₅,N₁₀-Tris[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane, 22035
- C₃₇H₄₄O₈**
Trichilin D, 21555
- C₃₇H₄₄O₉**
6α-Acetoxy-9β-benzoyloxy-1β-cinnamoyloxy-8β-butanoyloxy-β-dihydroagarofuran, 131
- C₃₇H₄₄O₁₀**
Gnidilatidin, 8900
Odoracin, 15990
Yuanhuacin, 22929
- C₃₇H₄₄O₁₁**
Taxinine B, 20800
- C₃₇H₄₄O₁₂**
Dantaxusin C, 4638
- C₃₇H₄₄O₁₃**
1-Cinnamoyl-11-methoxymeliacarpinin, 3710
Taxagifin, 20743
- C₃₇H₄₄O₁₄**
Jatrophane 11, 11847
3β,5α,7β,8α,15β-Pentaacetoxy-2α-benzoyloxy-jatropha-6(17),11*E*-dien-9,14-dione, 16818
Segetene A, 19656
Segetene B, 19657
Taxuspine S, 20866
Taxuspine T, 20867
- C₃₇H₄₄O₁₅**
1α,2α,6β-Triacetoxy-8α-(β-furancarboxyloxy)-

- 9 β -benzoyloxy-13-isobutanoyloxy-4 β -hydroxy- β -dihydroagarofuran, 21520
- C₃₇H₄₄O₁₇**
Korepimedeside A, 12272
- C₃₇H₄₆O₁₀**
2-Deacetoxytaxinine J, 4708
- C₃₇H₄₆O₁₁**
Dantaxusin D, 4639
Taxamedin A, 20747
Taxawallin A, 20753
Taxuspinanane G, 20846
Taxuspine J, 20857
- C₃₇H₄₆O₁₂**
(R)-(-)-Agrimol B, 753
Swietephragmin C, 20518
Taxezopidine K, 20789
- C₃₇H₄₆O₁₃**
1 β -Dehydroxybaccatin VI, 4981
3 β ,5 α ,8 α ,9 α ,15 β -Pentaacetoxy-7 β -benzoyloxy-jatropha-6(17),11E-dien-14-one, 16819
Swietephragmin E, 20520
- C₃₇H₄₆O₁₄**
13-Acetyl-13-decinnamoyltaxchinin B, 369
Baccatin VI, 2077
Segetene 3, 19652
Segetene 4, 19653
Taxumairol G, 20827
- C₃₇H₄₆O₁₅**
14 β -Benzoyloxy-13-deacetyl baccatin IV, 2252
14 β -Benzoyloxy-2-deacetyl baccatin VI, 2253
10-Hydroxyacetyl baccatin VI, 9763
14 β -Hydroxy-baccatin VI, 9813
Kansuinin A, 12137
- C₃₇H₄₆O₁₆**
Kansuinin H, 12144
- C₃₇H₄₆O₁₇**
Acanfolioside, 63
- C₃₇H₄₆O₁₈**
Wiedemannioside B, 22663
- C₃₇H₄₈N₂O₁₁**
Potanidine B, 17744
- C₃₇H₄₈O₆**
3,6-Epoxy-5,3',4'-trihydroxy-12',13',20'-trinor- β , β -caroten-19,11-olide, 7217
- C₃₇H₄₈O₁₀**
Cynaphylloside A, 4556
- C₃₇H₄₈O₁₄**
5 α -O-(β -D-Glucopyranosyl)-10 β -benzoyltaxacustone, 8609
Taxumairol A, 20821
- C₃₇H₄₈O₂₁**
Tubuloside A, 22093
- C₃₇H₄₈O₂₃S₂**
Dimer iridoid glucoside 10, 6196
- C₃₇H₄₉NO₉**
Taxuspine H, 20856
- C₃₇H₄₉NO₁₀**
Comptonine, 3958
2'-Hydroxytaxine II, 10738
Spicaledonine, 20157
Taxine A', 20794
- C₃₇H₄₉NO₁₁**
7-O-Acetyltaxine A, 519
- C₃₇H₄₉NO₁₂**
Euphocharacin D, 7599
- C₃₇H₄₉NO₁₃**
(2R,3R,4R,5R,7S,8S,9S,11E,13S,15R)-2,3,5,7,8,9,15-Heptahydroxyjatropha-6(17),11-diene-14-one-7,8,9-triacetate-2-nicotinate-5-(2-methylbutyrate), 9401
- C₃₇H₅₀N₂O₁₀**
Methyllycaconitine, 14569
- C₃₇H₅₀N₂O₁₁**
10-Hydroxy-methyllycaconitine, 10501
- C₃₇H₅₀O₈**
12-O-Cinnamoyl-20-O-ikemaoyl sarcostin, 3709
- C₃₇H₅₀O₉**
Pimelea factor P₂, 17374
- C₃₇H₅₀O₁₁**
15-O-Deacetyl-15-O-methylnimbolidin B, 4753
- C₃₇H₅₀O₁₂**
Nimbolidin C, 15607
- C₃₇H₅₀O₁₄**
1 α ,2 α ,6 β -Triacetoxy-8 α -isobutanoyloxy-9 β -benzoyloxy-13-(α -methyl)butanoyloxy-4 β -hydroxy- β -dihydroagarofuran, 21525
- C₃₇H₅₀O₁₈**
Yadanzioside O, 22874
- C₃₇H₅₀O₂₀**
Cistanoside B, 3752
Jionoside B₁, 11882
Jionoside B₂, 11883
- C₃₇H₅₀O₂₁**
Rossicaside F, 18927
- C₃₇H₅₁NO₈**
7,2'-Didesacetoxy austrospicatin, 5478
- C₃₇H₅₁NO₉**
10 β -Hydroxy-2 α ,9 α ,13 α -triacetoxy-5 α -(3'-(dimethylamino)-3'-phenyl)butanoatetaxa-4(20),11-diene, 10777
9 α -Hydroxy-2 α ,10 β ,13 α -triacetoxy-5 α -(3'-N,N-dimethylamino-3'-phenyl)propionyloxytaxa-4(20),11-diene, 10778
Taxuspine Z, 20873
- C₃₇H₅₁NO₁₀**
9 α -Acetyl-10 β -deacetyl-spicataxine, 365
- 7 β ,9 α -Bisdeacetylaustrospicatin, 2437
2 α 17-Dihydroxy-9 α ,10 β ,13 α -triacetoxy-5 α -(3'-N,N-dimethylamino-3'-phenyl)propionyloxytaxa-4(20),11-diene, 6157
Spicataxine, 20159
- C₃₇H₅₂ClN₃O₁₀**
Maytanvaline, 13622
- C₃₇H₅₂N₂O₁₁**
Demethyldelevaine A, 5071
Demethyldelevaine B, 5072
Puberaconitidine, 18166
- C₃₇H₅₂O₃**
Karoundiol 3-benzoate, 12166
- C₃₇H₅₃N₃O₁₀**
Delsemine A, 5033
Delsemine B, 5034
- C₃₇H₅₄N₂O₉**
Delajacine, 4991
- C₃₇H₅₄O₄**
Carpesterol, 3221
Cholesteryl ferulate, 3586
- C₃₇H₅₄O₅**
Oleoyl neocryptotanshinone, 16073
Revandchinone 3, 18671
- C₃₇H₅₄O₆**
Hericenone E, 9433
- C₃₇H₅₄O₁₀**
Bugbanoside E, 2731
7,8-Didehydro-27-deoxyactein, 5466
- C₃₇H₅₄O₁₁**
Bugbanoside D, 2730
Cimicifugoside, 3652
- C₃₇H₅₄O₁₆**
(3S)-O- α -L-Rhamnopyranosyl-(1 \rightarrow 3)-[4-O-(E)-coumaroyl]- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-linalool, 18695
(3S)-O- α -L-Rhamnopyranosyl-(1 \rightarrow 3)-[4-O-(Z)-coumaroyl]- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-linalool, 18696
Trillenoside C, 21875
- C₃₇H₅₆O₈**
Phorbol-12-tiglate-13-laurate, 17195
- C₃₇H₅₆O₁₀**
Acetyl cimicifugoside, 352
3-O- α -(2"-O-Acetyl)-D-xylopyranosyl-3 β -hydroxyolean-12-ene-28,29-dioic acid, 533
- C₃₇H₅₆O₁₁**
Cimiracemoside F, 3667
Cimiracemoside G, 3668
27-Deoxyactein, 5150
- C₃₇H₅₆O₁₂**
24-Acetoxy-15,16-seco-cycloart-7-en 3-O-xyloside, 280

- Actein, 579
Bugbanoside C, 2729
Cimidahuside D, 3656
C₃₇H₅₆O₁₅
Wattoside E, 22652
C₃₇H₅₆O₁₆
Rhodexin D, 18788
C₃₇H₅₈O₆
Hericenone D, 9432
Hericenone G, 9435
C₃₇H₅₈O₈
Fomitocide F, 7871
12-*O*-(2-Methylbutyryl)phorbol-13-dodecanoate, 14201
Phorbol-12-*α*-methylbutyrate-13-laurate, 17190
C₃₇H₅₈O₉
Fomitocide E, 7870
Oleanolic acid-3-*O*-*β*-*D*-(6'-*O*-methyl)-glucuronoside, 16048
C₃₇H₅₈O₁₀
25-*O*-Acetylcimigenoside, 354
23-*O*-Acetylshengmanol 3-*O*-*α*-*L*-arabinopyranoside, 512
Acetyl shengmanol xyloside, 513
Beesioside L, 2205
Beesioside O, 2208
(22*S*)-Cholesta-5,24-diene-3*β*,11*α*,16*β*,22-tetrol 16-*O*-(2,3-di-*O*-acetyl-*α*-*L*-rhamnopyranoside), 3576
Cimiracemoside E, 3666
Eclalbasaponin XIII, 6704
Saponin 1, 19333
Soulieoside C, 20112
C₃₇H₅₈O₁₁
12*β*-Acetoxycimigenol-3-*O*-*β*-*D*-xylopyranoside, 141
25-*O*-Acetyl-12*β*-hydroxycimigenol 3-*O*-*α*-*L*-arabinopyranoside, 414
(22*R*,23*R*,24*R*)-12*β*-Acetyloxy-16*β*,23:22,25-di-epoxy-23,24-dihydroxy-9,19-cyclolanostan-3*β*-yl *α*-*L*-arabinopyranoside, 477
Beesioside K, 2204
Cimiracemoside H, 3669
C₃₇H₅₈O₁₂
Cimidahuside C, 3655
Esculentoside D, 7371
C₃₇H₅₈O₁₃
5-Ene-methyl-7,12-didehydroxy-cholate-3-*O*-*α*-*L*-rhamnopyranosyl-(1→4)-*β*-*D*-glucuronopyranoside, 6799
C₃₇H₅₈O₁₉
Prostratoside I, 17961
C₃₇H₅₉NO₁₁
Germerine, 8352
C₃₇H₅₉NO₁₂
Neogermbudine, 15395
C₃₇H₆₀O₈
Fomitocide J, 7875
C₃₇H₆₀O₁₀
Beesioside F, 2197
Beesioside M, 2206
(22*S*)-Cholest-5-ene-3*β*,11*α*,16*β*,22-tetrol 16-*O*-(2,3-di-*O*-acetyl-*α*-*L*-rhamnopyranoside), 3582
Tormentic acid-6-methoxy *β*-*D*-glucopyranosyl ester, 21458
C₃₇H₆₀O₁₁
Beesioside D, 2195
Beesioside III, 2202
Methyl-3-*O*-*β*-*D*-glucopyranosyl polygalactate, 14468
C₃₇H₆₀O₁₂
(22*R*)-22-Hydroxy-24-*O*-acetylhydroshengmanol 3-*O*-*β*-*D*-xylopyranoside, 9764
C₃₇H₆₂O₆
Marianoside B, 13565
C₃₇H₆₂O₇
Ginsenoside Rh₃, 8438
Marianoside A, 13564
C₃₇H₆₂O₁₁
Beesioside P, 2209
C₃₇H₆₂O₁₆
1',3,3',4',6'-Pentakis-*O*-(3-methylbutanoyl)-*β*-*D*-fructofuranosyl *α*-*D*-glucopyranoside, 16861
C₃₇H₆₄O₃
4'-Hydroxy-*cis*-cinnamic acid octacosyl ester, 9911
C₃₇H₆₄O₄
Erythrinassinate B, 7332
C₃₇H₆₄O₇
Panacon, 16582
C₃₇H₆₆O₅
Squamocenin, 20239
C₃₇H₆₆O₆
Desacetylvaricin, 5240
Isodesacetylvaricin, 11375
Muricin I, 15098
Neoannonin, 15339
C₃₇H₆₆O₇
Annocherimolin, 1297
Annonareticin, 1317
Annonin VI, 1319
Asimicin, 1856
Bullatacin, 2735
Gigantetronenin, 8379
Isoannonareticin, 11223
2,4-*cis*-Isoannonareticin, 11224
2,4-*trans*-Isoannonareticin, 11225
Montalicin E, 14940
Rolliniastatin 1, 18899
Squamocin, 20240
Squamostatins D, 20247
Squamotacin, 20248
Uvaribonianin, 22291
Uvarigrandin A, 22298
C₃₇H₆₆O₈
Annoglaucin, 1302
Bullatanocin, 2736
Panalicin, 16584
Purpuracenin, 18211
Purpureacin 1, 18214
Purpureacin 2, 18215
Rollimusin, 18898
Squamocin O₁, 20241
Squamocin O₂, 20242
Squamostatins B, 20246
C₃₇H₆₇NO₃
(2*S*,3*R*,4*E*,8*E*,9*Z*,12'*Z*)-*N*-9',12'-Octadecadienyl-2-amino-9-methyl-4,8-octadecadiene-1,3-diol, 15943
C₃₇H₆₈O₆
Uvarigrin, 22300
C₃₇H₆₈O₇
Annomontacin, 1307
cis-Annomontacin, 1308
Asitrilobin A, 1858
Laherradurin, 12452
Montalicin I, 14942
Montalicin J, 14943
Tucumanin, 22099
Xylomaticin, 22816
C₃₇H₆₈O₈
Otitarin, 16266
C₃₇H₇₅NO₄
(2*S*,3*S*,4*R*)-2-Nonadecanoylamino-octadecane-1,3,4-triol, 15673
Trufflesphingolipid B, 22054
C₃₈H₃₀O₂₀
1,3-Di-*O*-(*E*)-caffeoyl-4,6-(*S*)-HHDP-*β*-*D*-glucopyranose, 5410
C₃₈H₃₂N₂O₉
Glycobismine F, 8820
Glycobismine G, 8821
C₃₈H₃₂O₁₅
Ginkgetin 7''-*O*-*β*-*D*-glucopyranoside, 8402
Isoginkgetin-7-*O*-*β*-*D*-glucopyranoside, 11440
C₃₈H₃₄N₂O₉
(+)-Oviisocorydine, 16283
C₃₈H₃₄O₁₀
(3*S*)-6-(3-Phenyl-5-acetoxy-6-methoxybenzo[*b*]

- furan-2-ylmethyl)-vestitol-triacetate, 17092
- C₃₈H₃₄O₁₆**
1,3-Bis-[2-(3,4-dihydroxyphenyl)-1-methoxy-carbonyl]ethoxycarbonyl-2-(3,4-dihydroxyphenyl)-7,8-dihydroxy-1,2-dihydronaphthalene, 2445
Methyl lithospermate B, 14556
- C₃₈H₃₆N₂O₆**
8,8"-Biskoeningine, 2480
- C₃₈H₃₆N₂O₈**
Thalphine, 21267
- C₃₈H₃₈O₁₀**
Mezerein, 14826
- C₃₈H₄₀N₂O₁₁**
Catheduline E₂, 3326
- C₃₈H₄₀N₂O₆**
Insularine, 11088
- C₃₈H₄₀N₂O₇**
Calafatimine, 2938
Thalcimine, 21234
- C₃₈H₄₀N₄**
Dihydonortoxiferine I, 5682
- C₃₈H₄₀N₄O₂**
Caracurine V, 3148
- C₃₈H₄₀O₆**
Blepharocalyxin D, 2499
- C₃₈H₄₀O₉**
6 α -Acetoxy-1 β ,8 β ,9 β -tribenzoyloxy- β -dihydroagarofuran, 292
- C₃₈H₄₀O₁₈**
6"-Feruloylspinosin, 7787
- C₃₈H₄₀O₂₀**
Kaempferol-3-*O*-[(6-*O*-sinapoyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside], 12093
- C₃₈H₄₀O₂₁**
Quercetin-3-*O*-[(6-*O*-sinapoyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside], 18395
Quercetin-3-*O*-[2-*O*-(6-*O*-*E*-sinapoyl)- β -*D*-glucopyranosyl]- β -*D*-glucopyranoside, 18396
- C₃₈H₄₁O₂₀⁺**
Alatanin 1, 835
- C₃₈H₄₂Br₂O₉**
CPB-53-1114-4 6,7-di-*p*-bromobenzoate, 4207
- C₃₈H₄₂N₂O₆**
Cycleaneonine, 4460
Cycleanine, 4461
Funiferine, 8004
Isocycleanine, 11362
Isotetrandrine, 11736
Menisine, 13715
(+)-*O*-Methylthalicberine, 14756
Obaberine, 15881
Pakistanamine, 16537
- Sutchuenensine, 20498
Tetrandrine, 21206
- C₃₈H₄₂N₂O₇**
Fenfangjine A, 7753
Thalfoetidine, 21236
Thalidezine, 21253
Thalisamine, 21262
Thalisopine, 21263
Thalrugosidine, 21269
- C₃₈H₄₂O₇**
Blepharocalyxin C, 2498
- C₃₈H₄₂O₁₁**
Orthosiphonone A, 16242
- C₃₈H₄₂O₁₄**
Kansuinin B, 12138
Kansuinin C, 12139
- C₃₈H₄₂O₁₆**
Curtisian F, 4402
Labadoside, 12401
- C₃₈H₄₂O₁₇**
Aloeresin H, 977
Nirurisode, 15627
- C₃₈H₄₃N₂O₆**
(+)-2-*N*-Methylfangchinoline, 14441
- C₃₈H₄₄N₂O₆**
Dauricine, 4685
Neferine, 15321
- C₃₈H₄₄N₂O₈**
Disinomenine, 6512
- C₃₈H₄₄N₂O₉**
10-*O*-Acetylglaine B, 307
Aglaine A, 738
4-Epiaglaine A, 6824
Grandiamide A, 8974
- C₃₈H₄₄O₈**
Gambogic acid, 8128
- C₃₈H₄₄O₉**
Euphoscopin C, 7620
- C₃₈H₄₄O₁₁**
Euphocharacin C, 7598
Orthosiphol A, 16221
Orthosiphol B, 16222
Orthosiphol F, 16224
Orthosiphol O, 16233
- C₃₈H₄₄O₁₂**
4 α ,7 β -Diacetoxy-2 α ,9 α -dibenzoyloxy-5 β ,20-epoxy-10 β ,13 α ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene, 5293
- C₃₈H₄₄O₁₂**
6-Hydroxyorthosiphol B, 10556
Neoorthosiphol A, 15443
Neoorthosiphol B, 15444
Orthosiphol L, 16230
- Orthosiphol R, 16234
Siphonol B, 19967
Siphonol C, 19968
Staminol B, 20259
Staminol C, 20260
- C₃₈H₄₄O₁₈**
Glypentoside C, 8853
- C₃₈H₄₄O₂₀**
Smiglaside C, 20022
- C₃₈H₄₅N₅O₅**
Scutianine F, 19594
- C₃₈H₄₆N₂O₁₇**
Emarginatine, 6766
- C₃₈H₄₆O₈**
Isogambogenic acid, 11433
- C₃₈H₄₆O₉**
6 α -Acetoxy-9 β -benzoyloxy-1 β -cinnamoyloxy-8 β -(2-methylbutanoyloxy)- β -dihydroagarofuran, 132
Neogambogic acid, 15394
- C₃₈H₄₆O₁₃**
Swietephragmin A, 20516
- C₃₈H₄₆O₁₈**
Insularoside-3'-*O*- β -*D*-glucoside, 11089
- C₃₈H₄₇NO₁₈**
Euonymine, 7534
Wilformine, 22684
- C₃₈H₄₈N₂O₇**
Nigellamine A₃, 15563
- C₃₈H₄₈N₂O₁₁**
14-Demethyl-14-isobutyrylanhweidelphinine, 5083
- C₃₈H₄₈O₁₈**
8-Prenylkaempferol-4'-methoxy-3-[xylosyl (1 \rightarrow 4)-rhamnoside]-7-glucoside, 17835
Safghanoside F, 19117
- C₃₈H₄₈O₁₉**
Baohuoside V, 2142
Diphylloside B, 6493
Epimedin B, 6960
Safghanoside E, 19116
- C₃₈H₄₈O₂₀**
Diphylloside A, 6492
Rouhuoside, 18961
- C₃₈H₄₈O₂₃**
Kaempferol-3-*O*-{[β -*D*-xylopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 6)] [α -*L*-rhamnopyranosyl(1 \rightarrow 2)]}- β -*D*-galactopyranoside, 12105
Rhamnocitrin 3-*O*-apiosyl(1 \rightarrow 5)-apiosyl(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside, 18683
- C₃₈H₄₈O₂₅**
Aescuflavoside, 661

- C₃₈H₄₉NO₁₂**
Daphcalycinosidine C, 4640
- C₃₈H₅₀N₂O₁₀**
Elatine, 6734
- C₃₈H₅₀O₂**
Dipiperitylmagnolol, 6494
- C₃₈H₅₀O₆**
Cambogin, 3029
Garcinol, 8218
Guttiferone A, 9089
Guttiferone I, 9091
Isoxanthochymol, 11782
Xanthochymol, 22759
- C₃₈H₅₀O₁₂**
Nimbolidin B, 15606
- C₃₈H₅₀O₂₀**
Wiedemannioside D, 22665
- C₃₈H₅₁NO₁₈**
4-Acetylaminoethylphenyl-1-*O*-[6-*O*-(*Z*)-*p*-methoxycinnamoyl- β -*D*-glucopyranosyl(1 \rightarrow 2)]- β -*D*-glucopyranosyl(1 \rightarrow 3)]- α -*L*-rhamnopyranoside, 313
- C₃₈H₅₂O₆**
3 β -*p*-Hydroxybenzoyldehydrotumulosic acid, 9823
- C₃₈H₅₂O₈**
3-*O*-(4-Hydroxy-3-methoxybenzoyl)ceanothic acid, 10383
- C₃₈H₅₂O₁₆**
Chantriolide A, 3478
- C₃₈H₅₄O₁₃**
Marinobufagin 3-suberoyl-*L*-glutamine ester, 13566
- C₃₈H₅₄O₁₄**
Scillarenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-2'-*O*-acetyl- α -*L*-rhamnopyranoside, 19519
Scillarenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-3'-*O*-acetyl- α -*L*-rhamnopyranoside, 19520
- C₃₈H₅₄O₁₅**
6 β -Acetoxy scillarenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranoside, 279
cis-Cleroda-15,16-dihydroxy-3,13(*Z*)-dien-18-*O*-[β -*D*-galactopyranosyl]-peracetyler, 3836
- C₃₈H₅₄O₁₆**
Chantriolide B, 3479
Scillirosidin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranoside, 19529
- C₃₈H₅₄O₁₉**
Crocin 2, 4250
- C₃₈H₅₄O₂₂**
4'-*O*- β -*D*-Glucosyl-9-*O*-(6"-deoxysaccharosyl)olivil, 8754
- C₃₈H₅₆N₈O₁₀**
Pseudostellarin F, 18068
- C₃₈H₅₆O₄**
Campesteryl ferulate, 3041
- C₃₈H₅₆O₈**
Colchiside A, 3913
- C₃₈H₅₆O₁₁**
Methylcimicifugoside, 14241
- C₃₈H₅₆O₁₃**
25-*O*-Acetylbryoamaride, 339
Arvenin I, 1825
Opercurin A, 16126
Opercurin B, 16127
- C₃₈H₅₈O₁₃**
2-*O*-Acetylsuavissimoside F₁, 516
Arvenin II, 1826
(2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-8,9-diacetate-7-isobutyrate-2,5-bis(2-methylbutyrate), 9396
(2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-8,9-diacetate-7-isobutyrate-2,3-bis(2-methylbutyrate), 9397
- C₃₈H₅₈O₁₄**
Funingenoside C, 8007
- C₃₈H₆₀O₇**
3-*O*-(2,3-Dimethylbutanoyl)-13-*O*-dodecanoyl-20-deoxyingenol, 6324
- C₃₈H₆₀O₈**
3-*O*-(2,3-Dimethylbutanoyl)-13-*O*-dodecanoyl-ingenol, 6325
20-*O*-(2,3-Dimethylbutanoyl)-13-*O*-dodecanoyl-ingenol, 6326
Fomitoid G, 7872
13-Oxyingenol-13-dodecanoate-20-hexanoate, 16449
Phorbol-12-palmitate-13-acetate, 17191
Welensalifactor F₁, 22658
- C₃₈H₆₀O₉**
12-*O*-Palmitoyl-16-hydroxyphorbol-13-acetate, 16564
- C₃₈H₆₀O₁₀**
1 α ,3 β -Hydroxyimberbic acid-23-*O*- α -*L*-4-acetyl-rhamnopyranoside, 10226
Rubianoside I, 19007
- C₃₈H₆₀O₁₁**
Lycogalinoside A, 13195
Lycogalinoside B, 13196
- C₃₈H₆₀O₁₂**
Convallamarogen-1-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-xylopyranoside, 4007
Niga-ichigoside F₃, 15541
Polyspirostanol PO₅, 17679
- 25(*S*)-Ruscogenin 1-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside, 19071
- C₃₈H₆₀O₁₃**
Laxogenin 3-*O*-[*O*- α -*L*-arabinopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside], 12593
Pennogenin-3-*O*- α -*L*-arabinofuranosyl(1 \rightarrow 4)- β -*D*-glucopyranoside, 16810
SQD₄, 20236
- C₃₈H₆₀O₁₄**
26-*O*- β -*D*-Glucopyranosyl-furostan-5,25(27)-diene-1 β ,3 β ,22 β ,26-tetrahydroxy-1-*O*- α -*L*-arabinopyranoside, 8630
- C₃₈H₆₀O₁₈**
Stevioside, 20341
- C₃₈H₆₁NO₁₁**
Obtusolactam-20(*R*)-*O*-[β -thevetopyranosyl(1 \rightarrow 4)- β -cymaropyranoside], 15912
- C₃₈H₆₂**
Annoglabayin, 1301
- C₃₈H₆₂O₉**
26-*O*-(3'-Isopentanoyl)- β -*D*-glucopyranosyl-5 α -furost-20(22)-ene-3 β ,26-diol, 11583
- C₃₈H₆₂O₁₀**
2-*O*-Acetyl-28-dehydroxy-rubianoside IV, 371
Kahircoside III, 12108
Kahircoside IV, 12109
Rubiarioside A, 19021
- C₃₈H₆₂O₁₁**
2-*O*-Acetyl-rubianoside IV, 496
- C₃₈H₆₂O₁₂**
Aspafilioside A, 1860
Asparanin B₃, 1871
Asparanin B₄, 1872
22-Epirhodeasapogenin-1-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-xylopyranoside, 7006
Isorhodeasapogenin-1-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-xylopyranoside, 11676
Rhodeasapogenin-1-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-xylopyranoside, 18783
- C₃₈H₆₂O₁₃**
16 β -[(α -*L*-Arabinopyranosyl)oxy]-3 β -[(β -*D*-glucopyranosyl)oxy]-17 α -hydroxycholest-5-en-22-one, 1578
(25*R*)-3 β -Hydroxy-5 α -spirostan-6 α -yl *O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 10721
Pentandroside A, 16877
- C₃₈H₆₂O₁₄**
Glucoconvallasaponin A, 8592
Pentandroside C, 16879
- C₃₈H₆₂O₁₅**
Glucoconvallasaponin B, 8593
Hemeroside A, 9341

- C₃₈H₆₃NO₁₂**
Obtusine-20(*R*)-*O*-[β -thevetopyranosyl-(1 \rightarrow 4)- β -cymaropyranoside], 15909
- C₃₈H₆₄O₆**
C₁₉-Obtusilactone dimer, 2837
- C₃₈H₆₄O₇**
Niloticol, 15600
- C₃₈H₆₄O₁₃**
2 α ,3 β -(22*R*)-Trihydroxycholestan-6-one-22-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside, 21695
- C₃₈H₆₄O₁₄**
(22*S*)-Cholest-5-en-1 β ,3 β ,16 β ,22,25-pentaol 1-*O*- β -*D*-glucopyranosyl-16-*O*- β -*D*-apiofuranoside, 3584
- C₃₈H₆₆O₄**
Cluytyl ferulate, 3852
Nonacosanyl caffeate, 15670
Tenuiphenone D, 20962
- C₃₈H₇₀O₄**
Coixenolide, 3906
- C₃₉H₂₆O₉**
Thelephantin K, 21303
- C₃₉H₃₂O₈**
Mulberrofuran K, 15045
- C₃₉H₃₂O₁₄**
Apigenin-7-*O*-(3'',6''-di-(*E*)-*p*-coumaroyl)- β -*D*-galactopyranoside, 1487
Apigenin-4'-*O*-(2'',6''-di-*O*-*p*-coumaroyl)- β -*D*-glucoside, 1488
Cernoside, 3430
Kaempferol 3-*O*- α -*L*-(2',4'-di-*Z*-*p*-coumaroyl)-rhamnoside, 12039
Platanoside, 17528
- C₃₉H₃₂O₁₅**
Castanoside B, 3298
Cinchonain Ib, 3681
Kaempferol-3-*O*-(2'',6''-di-(*O*-(*E*)-*p*-coumaroyl)- β -*D*-glucopyranoside), 12038
Kandelin A₁, 12128
- C₃₉H₃₄O₈**
Mulberrofuran F, 15043
- C₃₉H₃₄O₉**
Mulberrofuran O, 15049
- C₃₉H₃₆O₉**
Chalcomoracin, 3453
Guangsangon E, 9057
Guangsangon J, 9062
- C₃₉H₃₆O₁₃**
(+)-Catechin-3-*O*- β -*D*-gluco(2,6-bis-cinnamoyl)-pyranoside, 3310
- C₃₉H₃₈O₉**
Leachianone C, 12596
- C₃₉H₃₈O₁₀**
Guangsangon A, 9053
- C₃₉H₃₉O₂₁⁺**
Malonyl shisonin, 13450
- C₃₉H₃₉O₂₂⁺**
Caffeoyl malonyl cyanin, 2913
Malonylawobanin, 13440
- C₃₉H₄₀N₂O₆²⁺**
Phaeantharine, 17039
- C₃₉H₄₀O₁₃**
Curtisian G, 4403
- C₃₉H₄₀O₁₇**
Hydropiperoside, 9737
- C₃₉H₄₀O₁₉**
Ozturkoside C, 16484
- C₃₉H₄₀O₂₀**
Ozturkoside A, 16482
- C₃₉H₄₂N₂O₈**
Thalfinine, 21235
- C₃₉H₄₃O₂₀⁺**
Alatanin 2, 836
- C₃₉H₄₄N₂O₇**
Hernandezine, 9441
Thalidasine, 21251
Thaliracebine, 21261
Thalrugosaminine, 21268
- C₃₉H₄₄O₁₄**
Siphonol E, 19970
- C₃₉H₄₄O₁₉**
6''-Sinapoylspinosin, 19921
- C₃₉H₄₅NO₁₁**
Euphocharacin F, 7601
- C₃₉H₄₅NO₁₂**
Euphocharacin A, 7596
- C₃₉H₄₅NO₁₉**
Wilfordconine, 22675
- C₃₉H₄₅N₂O₆⁺**
(+)-2-*N*-Methyltetrandrine, 14753
- C₃₉H₄₆N₂O₁₀**
5 α -*O*-(3'-Amino-3'-phenylpropionyl)nicotaxine, 1062
- C₃₉H₄₆O₈**
Nimbolin A, 15610
- C₃₉H₄₆O₁₀**
Nimbolin B, 15611
- C₃₉H₄₆O₁₅**
Taxezopidine L, 20790
- C₃₉H₄₆O₁₈**
Korepimedeside B, 12273
- C₃₉H₄₇BrO₈**
Bisacutifolone A *p*-bromobenzoate, 2430
Bisacutifolone B *p*-bromobenzoate, 2433
- C₃₉H₄₈O₁₁**
15-*O*-Deacetyl-15-*O*-methylnimbolin A, 4752
- C₃₉H₄₈O₁₂**
Taxinine J, 20802
- C₃₉H₄₈O₁₃**
Swietephragmin B, 20517
Taxuspine D, 20852
- C₃₉H₄₈O₁₅**
2 α ,3 β ,5 α ,8 α ,9 α ,15 β -Hexaacetoxy-7 β -benzoyloxyjatropa-6(17),11*E*-dien-14-one, 9474
3 β ,5 α ,7 β ,8 α ,9 α ,15 β -Hexaacetoxy-2 α -benzoyloxyjatropa-6(17),11*E*-dien-14-one, 9475
- C₃₉H₄₈O₁₆**
14 β -Benzoyloxybaccatin IV, 2249
Segetene 5, 19654
- C₃₉H₄₉NO₂₁**
Anthemis glycoside A, 1352
- C₃₉H₅₀O₇**
Peridinin, 16922
- C₃₉H₅₀O₁₃**
1*S*,6*R*-Di(2-)methylbutanoyloxy-4*S*-hydroxy-8*S*-benzoyloxy-9*R*-(3-)furancarboxyloxy-13-acetyloxy- β -dihydroagarofuran, 6328
- C₃₉H₅₀O₁₉**
Epimedin C, 6961
- C₃₉H₅₀O₂₀**
Epimedin A, 6959
- C₃₉H₅₀O₂₁**
Pyrolaside B, 18269
- C₃₉H₅₀O₂₃**
Astrasikokioside I, 1950
Reiniiose E, 18607
- C₃₉H₅₀O₂₄**
1-[(β -*D*-Glucopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl]oxy]-8-hydroxy-3-methyl-9,10-anthraquinone, 8644
Kaempferol 3-*O*-[2''-*O*- α -rhamnopyranosyl-3''-*O*-(6'''-*O*- α -rhamnopyranosyl- β -glucopyranosyl)]- β -glucopyranoside, 12081
- C₃₉H₅₀O₂₅**
Quercetin-3-*O*-[α -rhamnosyl (1 \rightarrow 6)] [β -glucosyl (1 \rightarrow 2)]- β -glucoside-7-*O*- α -rhamnoside, 18388
- C₃₉H₅₁NO₁₁**
2'-Deacetoxyaustrotaxine, 4703
- C₃₉H₅₁NO₁₂**
2'-Deacetylaustrotaxine, 4720
- C₃₉H₅₂O₂₃**
Ballotetroside, 2134
Lunariifolioside, 13074
- C₃₉H₅₂O₂₄**
Kaempferol 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside-7-*O*- α -*L*-rhamnopyranoside, 12076

- C₃₉H₅₃NO₁₀**
 2*α*-Acetoxy-2',7-dideacetoxy austrospicatine, 156
 2'*β*-Deacetoxyaustrospicatine, 4702
- C₃₉H₅₃NO₁₁**
 (-)-2*α*-Acetoxy-2',7-dideacetoxy-1-hydroxy-11
 (15→1)-abeo-austrospicatine, 157
 (+)-2*α*-Acetoxy-2',7-dideacetoxy-1-hydroxy-
 austrospicatine, 158
 2'-Deacetylaustrospicatine, 4718
 7-Deacetylaustrospicatine, 4719
 2*α*-Hydroxy-2'*β*-Deacetylaustrospicatine, 9959
- C₃₉H₅₃NO₁₂**
 2*α*-Hydroxy-7*β*,9*α*,10*β*,13*α*-tetraacetoxy-5*α*-(2'-
 hydroxy-3'-*N,N*-dimethylamino-3'-phenyl)-
 propionyloxytaxa-4(20),11-diene, 10742
- C₃₉H₅₃N₇O₁₁**
 Cyclo-(Gly-Asp-Leu-Thr-Val-Tyr-Phe), 4493
- C₃₉H₅₄O₅**
 Chuanxiongterpene, 3632
 3-*O*-(*E*)-Coumaroyloleanolic acid, 4177
 3-*O*-(*Z*)-Coumaroyloleanolic acid, 4178
 Lup-20(29)en-28-al-3*β*-yl-caffeate, 13090
 3*β*-[(*m*-Methoxybenzoyl)oxy]urs-12-en-28-oic
 acid, 13851
 Olean-28-al-3*β*-yl-caffeate, 16027
- C₃₉H₅₄O₆**
 3-*O*-(*cis-p*-Coumaroyl)-aliphatic acid, 4147
 3-*O*-(*trans-p*-Coumaroyl)-aliphatic acid, 4148
 (3*Z*)-Coumaroylhederagenin, 4164
 (23*E*)-Coumaroylhederagenin, 4165
 (23*Z*)-Coumaroylhederagenin, 4166
 3-*O*-(*cis-p*-Coumaroyl)-maslinic acid, 4169
 3-*O*-(*trans-p*-Coumaroyl)-maslinic acid, 4170
 3*α*-(3'',4'')-Dihydroxy-*trans*-cinnamoyloxy)-*D*-
 frido-olean-14-en-28-oic acid, 5791
 Diospyrosoleanolide, 6462
 3-*O-p*-Hydroxy-*trans*-cinnamoylmaslinic acid,
 9915
 Jacoumaric acid, 11810
 Lup-20(29)en-28-oic-3*β*-yl caffeate, 13095
 Olean-28-oic-3*β*-yl caffeate, 16045
 Rubicoumaric acid, 19028
 Uncarinic acid C, 22210
 Zamanic acid, 22964
- C₃₉H₅₄O₇**
 (3*E*)-Coumaroylarjunolic acid, 4151
 3*β*-*cis-p*-Coumaroyloxy-2*α*,23-dihydroxyolean-
 12-en-28-oic acid, 4179
 23-*trans-p*-Coumaroyloxy-2*α*,3*β*-dihydroxy-
 olean-12-en-28-oic acid, 4180
 Guavacoumaric acid, 9073
- C₃₉H₅₄O₈**
 3-*O*-Benzoyl-13-*O*-dodecanoateingenol, 2238
 20-*O*-Benzoyl-13-*O*-dodecanoateingenol, 2239
 16-Oxolyclanitin 30-(4-hydroxycinnamoyl),
 16376
- C₃₉H₅₄O₂₂**
 Syringaresinol-4-*O-β-D*-apiofuranosyl-(1→2)-
β-D-glucopyranosyl-4'-*O-β-D*-glucopyranoside,
 20558
- C₃₉H₅₆O₂**
α-Amyrin cinnamate, 1114
 Lupeol cinnamate, 13101
- C₃₉H₅₆O₃**
cis-Careaborin, 3192
trans-Careaborin, 3193
 3-*O*-(*E*)-Coumaroyl-*β*-amyrin, 4149
 3-*O*-(*Z*)-Coumaroyl-*β*-amyrin, 4150
 3-(*Z*)-Coumaroyllupeol, 4168
 Dioslupecin A, 6451
- C₃₉H₅₆O₄**
 3-(*E*)-Caffeoyllupeol, 2910
 3-(*Z*)-Caffeoyllupeol, 2911
 3*β*-(*E*)-Caffeoyltaraxerol, 2926
 3*β*-(*Z*)-Caffeoyltaraxerol, 2927
 3-*O*-(*E*)-Coumaroylerythrodiol, 4155
 3-*O*-(*Z*)-Coumaroylerythrodiol, 4156
 Stigmasteryl ferulate, 20376
- C₃₉H₅₆O₅**
 Lup-20(29)en-28-ol-3*β*-yl caffeate, 13096
- C₃₉H₅₆O₁₂**
 Spinolide A, 20171
- C₃₉H₅₈O₂**
 Lupeol *β*-phenyl propionate, 13102
- C₃₉H₅₈O₃**
 3-*O*-Dihydrocoumaroyl-*β*-amyrin, 5571
- C₃₉H₅₈O₄**
 21*α*-Hydroxyserrat-14-en-3*β*-yl
p-dihydrocoumarate, 10707
β-Sitosteryl ferulate, 19995
- C₃₉H₅₈O₅**
 Phlegmanol A, 17148
- C₃₉H₆₀O₃**
 5-(1-Phytoxy-ethyl)-2-hydroxy-7-methoxy-1,8-
 dimethyl-9,10-dihydrophenanthrene, 17274
- C₃₉H₆₀O₄**
 Dihydro-*β*-sitosteryl ferulate, 5714
 Dihydro-*γ*-sitosteryl ferulate, 5715
- C₃₉H₆₀O₉**
 Quinovic acid-3*β*-*O*-(3',4'-isopropylidene)-
β-D-fucopyranoside, 18437
 Quinovic acid-3*β*-(2',3'-*O*-isopropylidene)-*α-L*-
 rhamnopyranoside, 18438
- C₃₉H₆₀O₁₁**
 30-Noroleanolic acid-3-*O-β-D*-xylosyl(1→2)-*α*-
L-arabinopyranoside, 15783
 Soulieoside A, 20110
 Soulieoside B, 20111
- C₃₉H₆₀O₁₂**
 Beesioside I, 2200
 30-Norhederagenin-3-*O-β-D*-xylosyl(1→2)-*α*-
L-arabinopyranoside, 15755
- C₃₉H₆₀O₁₃**
 3-*O-α-L*-Rhamnopyranosyl (1→2)-*β-D*-glucu-
 ronopyranosyl-3*β*-hydroxy-25*R*-spirost-5-ene,
 18724
 3-*O-α-L*-Rhamnopyranosyl (1→2)-*β-D*-glucu-
 ronopyranosyl-3*β*-hydroxy-25*S*-spirost-5-ene,
 18725
 Saundersioside D, 19409
- C₃₉H₆₀O₁₄**
 1*β*,2*α*-Dihydroxyspirosta-5,25(27)-dien-3*β*-yl
O-α-D-rhamnopyranosyl-(1→2)-*β-L*-galacto-
 pyranoside, 6124
- C₃₉H₆₀O₁₅**
 Polygonoside C, 17645
 Pregna-5,16-dien-3*β*-ol-20-one 3-*O-β*-chacotri-
 oside, 17781
- C₃₉H₆₀O₁₆**
 Pregnadienolone-3-*O-β*-gracillimatriose, 17782
- C₃₉H₆₂O₁₂**
 Beesioside II, 2201
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 Ophiopogonin B, 16144
 Ophiopogonin C', 16145
 Polyphyllin C, 17654
- C₃₉H₆₂O₁₃**
 Deacylbrownioside, 4794
 Diosgenin-3-di-*β-O*-glucopyranoside, 6442
 (22*S*,23*R*)-16*β*,23-Epoxy-18,23-dihydroxy-22-
 (2-methyl-1-propenyl)-24-norchol-5-en-3*β*-yl
O-α-L-rhamnopyranosyl-(1→2)-*β-D*-glucopy-
 ranoside, 7081
 Pennogenin-3-*O-α-L*-rhamnopyranosyl(1→2)-*β*-
D-glucopyranoside, 16813
 Pingbeisaponin, 17383
 Trillarin, 21871
- C₃₉H₆₂O₁₄**
 Cantalanin A, 3089
 (25*R*)-1*β*,2*α*-Dihydroxyspirost-5-en-3*β*-yl *O-α-L*-
 rhamnopyranosyl-(1→2)-*β-D*-galactopyrano-
 side, 6127
 1*β*,2*α*-Dihydroxy-5*α*-spirost-25(27)-en-3*β*-yl
O-α-L-rhamnopyranosyl-(1→2)-*β-D*-galacto-
 pyranoside, 6131
 (24*S*,25*R*)-1*β*-[(*β-D*-Fucopyranosyl)oxy]-6*β*-
 hydroxy-3*α*,5*α*-cyclospirostan-24-yl *β-D*-
 glucopyranoside, 7976

- Ophiogenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside, 16131
- Polyspirostanol PO₁, 17676
- (23*S*,25*R*)-Spirost-5-ene-3 β ,23-diol 23-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside], 20219
- Terreside B, 21001
- C₃₉H₆₂O₁₅**
Agave americana Compound 3, 714
 (24*S*,25*R*)-1 β -[(β -*D*-Glucopyranosyl) oxy]-6 β -hydroxy-3 α ,5 α -cyclospirostan-24-yl β -*D*-glucopyranoside, 8690
- C₃₉H₆₃NO₁₀**
 Solanidine-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 20058
- C₃₉H₆₃NO₁₁**
 β -Solamargine, 20045
 γ ₁-Solamarine, 20048
 γ ₂-Solamarine, 20049
 Solaplumbine, 20064
- C₃₉H₆₃NO₁₂**
 δ -Solamarine, 20050
- C₃₉H₆₄O₁₁**
 Spergulin B, 20145
- C₃₉H₆₄O₁₂**
 Asparanin B₆, 1874
 Neotigogenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 15466
- C₃₉H₆₄O₁₃**
 Asparanin A, 1868
 (22*S*)-3 β ,22-Dihydroxy-1 β -[(α -*L*-rhamnopyranosyl)oxy]cholest-5,24-dien-16 β -yl β -*D*-glucopyranoside, 6107
 3-*O*-[β -*D*-Glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl]-(25*S*)-5 β -spirostan-3 β -ol, 8656
 Gurillin G, 9086
 Pentandroside D, 16880
 Smilagenin-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-mannopyranoside, 20027
 Timosaponin A₃, 21395
 Torvoside J, 21471
 Torvoside K, 21472
 Torvoside L, 21473
- C₃₉H₆₄O₁₄**
Agave cantala Compound 1, 721
Agave cantala Saponin 1, 723
 (25*R*)-1 β ,2 α -Dihydroxy-5 α -spirostan-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside, 6126
 (25*R*)-3 β -Hydroxy-5 α -spirostan-6 α -yl *O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 10718
 Markogenin3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside, 13570
 (25*R*)-Samogenin 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranoside, 19231
 (25*S*)-Samogenin 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranoside, 19232
 (5 β ,25*S*)-Spirostan-3 β ,15 α ,23 α -diol-3-*O*-*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside, 20209
- C₃₉H₆₄O₁₅**
 Cantalasonin 1, 3090
 Proampeloside Bf₂, 17865
 (5 β ,25*S*)-Spirostan-3 β ,15 α ,23 α -triol-3-*O*-*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside, 20217
 Wattoside I, 22655
- C₃₉H₆₄O₁₆**
 Agamenoside H, 697
- C₃₉H₆₄O₁₇**
 S-10, 19094
- C₃₉H₆₅NO₁₂**
 Yibeinoside C, 22906
- C₃₉H₆₆O₁₃**
 (22*S*)-Cholest-5-ene-1 β ,3 β ,16 β ,22-tetraol-1-*O*- α -*L*-rhamnopyranosyl-16-*O*- β -*D*-glucopyranoside, 3579
- C₃₉H₆₆O₁₄**
 Anemarrhenasaponin I, 1171
 26-*O*- β -*D*-Glucopyranosylfurostane-3 β ,26-diol-3-*O*- β -*D*-glucopyranoside, 8631
- C₃₉H₆₆O₁₈**
 Nerolidol-3-*O*-{ α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside}, 15504
- C₃₉H₆₈O₅**
 Glyceryl linolenate II, 8815
 1-*O*-(9*Z*,12*Z*-Octadecadienyl)-2-*O*-(9*Z*,12*Z*-octadecadienyl) glycerol, 15945
- C₃₉H₆₈O₈**
 Uvaribonone, 22297
- C₃₉H₇₀O₅**
 1-*O*-(9*Z*,12*Z*-Octadecadienyl)-3-*O*-(9*Z*-octadecenyl) glycerol, 15946
- C₃₉H₇₀O₈**
 Uvaribonin, 22292
- C₃₉H₇₂O₅**
 Anticancer Glycerol Ester PMV70P691-119, 1424
 α : α -Diolenin, 6431
 α : β -Diolenin, 6432
- C₃₉H₇₉NO₅**
 Spongiamine A, 20226
- C₄₀H₂₆O₂₅**
 Glansrin B, 8505
- C₄₀H₂₈O₂₆**
 Phyllanthusiin U, 17224
- C₄₀H₃₀O₂₄**
 Diellagic acid rhamnoside (1 \rightarrow 4) glucopyranoside, 5485
- C₄₀H₃₀O₂₆**
 Pelargoniin A, 16786
- C₄₀H₃₄O₁₅**
 Chrysoeriol 7-*O*-(3'',6''-Di-*O*-*E*-*p*-coumaroyl)- β -*D*-glucopyranoside, 3607
- C₄₀H₃₆O₉**
 Lespedezol B₃, 12690
- C₄₀H₃₆O₁₀**
 Guangsangan F, 9058
- C₄₀H₃₆O₁₁**
 Kuwanon G, 12385
 Kuwanon K, 12388
- C₄₀H₃₆O₁₂**
 Cathayanon A, 3324
 Cathayanon B, 3325
 Sanggenon C, 19257
 Sanggenon C₁, 19258
 Sanggenon D, 19259
 Sanggenon O, 19270
 Sanggenon Q, 19272
- C₄₀H₃₈O₁₀**
 Guangsangan H, 9060
 Kuwanon I, 12387
- C₄₀H₃₈O₁₁**
 Sanggenon G, 19262
- C₄₀H₃₈O₁₂**
 Moracenin D, 14952
- C₄₀H₄₀N₄O₂⁺²**
 5',6'-Dehydroguiaflavine, 4927
- C₄₀H₄₀O₆**
 3-3''Linked-(2''-hydroxy-4-*O*-isoprenylchalcone)-(2''-hydroxy-4''-*O*-isoprenyl dihydrochalcone), 12890
- C₄₀H₄₀O₁₂**
 Boehmenan, 2527
- C₄₀H₄₂N₄O₂**
 Guiaflavine, 9078
- C₄₀H₄₂N₄O₃⁺²**
 5',6'-Dehydroguiachrysine, 4926
- C₄₀H₄₂O₉**
 PM-2004-70-452-5, 17577
- C₄₀H₄₂O₁₂**
 Lappaol F, 12518
- C₄₀H₄₂O₁₄**
 Bis-5,5-nortrachelogenin, 2490
 Bis-5,5'-nortrachelogenin, 2491
- C₄₀H₄₂O₁₆**
 Gnemonoside E, 8875

- C₄₀H₄₂O₁₈**
Lapathoside C, 12507
- C₄₀H₄₂O₂₆**
Isochestanin, 11326
- C₄₀H₄₄N₂O₇**
Nigellamine A₅, 15565
- C₄₀H₄₄N₄O²⁺**
C-Curarine, 4377
- C₄₀H₄₄N₄O₃**
De-*O*-methyltenuicausine, 5099
Guiachrysine, 9077
- C₄₀H₄₄O₁₂**
Baccatin III 13-cinnamate, 2074
- C₄₀H₄₄O₂₀**
Scabroside, 19448
- C₄₀H₄₄O₂₂**
Isomacrophylloside, 11517
Macrophylloside A, 13321
- C₄₀H₄₄O₂₃**
Macrophylloside B, 13322
- C₄₀H₄₅N₄O₃**
Macrospegatrine, 13325
- C₄₀H₄₆Cl₂N₂O₆²⁺**
2',2'-*N,N*-Dichloromethyltetrandrine, 5419
- C₄₀H₄₆N₂O₈**
Fetidine, 7793
Pennsylvanine, 16816
- C₄₀H₄₆N₄O₂²⁺**
Toxiferine I, 21485
- C₄₀H₄₆O₁₀**
2 α -Benzoyloxy-5 α -cinnamoyloxy-9 α ,10 β -di-
acetoxy-1 β ,13 α -dihydroxy-4(20),11-taxadiene,
2250
Taxchinin H, 20775
- C₄₀H₄₆O₁₂**
Orthosiphon H, 16226
- C₄₀H₄₆O₁₃**
2,7-Dideacetyl-2,7-dibenzoyl-taxayunnanin F,
5459
Siphonol A, 19966
Siphonol D, 19969
Staminol A, 20258
Taxchinin I, 20776
- C₄₀H₄₆O₁₄**
Lappaol H, 12519
Yunnanxol, 22952
- C₄₀H₄₆O₂₀**
Longitin, 12984
- C₄₀H₄₇N₂O₈⁺**
Thalirabine, 21260
- C₄₀H₄₈N₂O₈**
N-Demethylthalistylin, 5100
- C₄₀H₄₈N₂O₁₀**
5 α -*O*-(3'-Methylamino-3'-phenylpropionyl)
nicotaxine, 14136
- C₄₀H₄₈N₄O₂**
Tabernamine, 20576
- C₄₀H₄₈N₄O₂²⁺**
Calebassine, 2959
Dispegatrine, 6517
- C₄₀H₄₈N₆O₉**
Rubia akane RA-II, 18980
Rubia akane RA-V, 18983
- C₄₀H₄₈N₆O₁₀**
Rubia akane RA-I, 18979
- C₄₀H₄₈O₁₂**
Nimboldin A, 15605
- C₄₀H₅₀O₂**
Rhodoxanthin, 18815
- C₄₀H₅₀O₅**
Hongencaotone, 9629
- C₄₀H₅₀O₇**
PM-2004-70-452-4, 17576
- C₄₀H₅₂O**
3,4-Dehydrolycopen-16-al, 4944
- C₄₀H₅₂O₂**
Canthaxanthin, 3095
Cynthiaxanthin, 4569
- C₄₀H₅₂O₃**
4,4'-Diketo-3-hydroxy- β -carotene, 6190
- C₄₀H₅₂O₄**
Astaxanthin, 1921
- C₄₀H₅₂O₁₇**
Phyllanthoside, 17216
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- C₄₀H₅₂O₂₁**
Wiedemannioside E, 22666
- C₄₀H₅₂O₂₄**
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- C₄₀H₅₄**
Torulene, 21467
- C₄₀H₅₄N₂O₆**
Incarvillateine C, 11007
- C₄₀H₅₄O**
Celaxanthin, 3369
3,4-Didehydroxy-3'-deoxycapsanthin, 5472
Echinenone, 6688
- C₄₀H₅₄O₂**
Diatoxanthin, 5377
4-Keto-4'-hydroxy- β -carotene, 12201
- C₄₀H₅₄O₃**
Adonixanthin, 647
Doradexanthin, 6560
- C₄₀H₅₄O₆**
Macrophyllic acid, 13317
- C₄₀H₅₄O₁₁**
10 α ,13 α ,16 α -Trihydroxy-9 α -methyl-15-oxo-20-
nor-kauran-19-oic acid γ -lactone-17-yl-14' α ,
16' α ,17'-trihydroxy-15'-oxo-*ent*-kaur-11'-en-
19'-oate, 21805
- C₄₀H₅₄O₁₂**
Nimboldin E, 15609
- C₄₀H₅₄O₁₅**
Bonaspectin C 4''- β -glucoside, 2543
- C₄₀H₅₄O₁₆**
Bonaspectin D 4''- β -glucoside, 2544
- C₄₀H₅₄O₂₄**
Velutinoside I, 22370
- C₄₀H₅₆**
 α -Carotene, 3208
 β -Carotene, 3209
 γ -Carotene, 3210
 δ -Carotene, 3211
 ϵ -Carotene, 3212
Lycopene, 13212
Neo- β -carotene B, 15356
Neo- β -carotene U, 15357
- C₄₀H₅₆O**
 α -Carotene-5,6-epoxide, 3213
 β -Carotene-5,6-epoxide, 3214
 β -Cryptoxanthin, 4293
Lycoxanthin, 13243
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- C₄₀H₅₆O₂**
Cryptoxanthin epoxide, 4294
3'-Deoxycapsanthin, 5158
Lutein, 13126
Lycophyll, 13222
Mutatoxanthin, 15136
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Semi- α -carotenone, 19694
Zeaxanthin, 22976
- C₄₀H₅₆O₃**
Antheraxanthin, 1358
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Chrysanthemaxanthin, 3592
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(9 Z ,9' Z)-Lutein-5,6-epoxide, 13128
(9 Z ,13 Z)-Lutein-5,6-epoxide, 13129
(9 Z ,13' Z)-Lutein-5,6-epoxide, 13130
(9' Z ,13' Z)-Lutein-5,6-epoxide, 13131
(13 Z ,9' Z)-Lutein-5,6-epoxide, 13132
- C₄₀H₅₆O₄**
Auroxanthin, 2017
Capsorubin, 3146
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- Siphonaxanthin, 19964
 Sugikurojin C, 20459
 Violaxanthin, 22520
- C₄₀H₅₆O₅**
 3,4-Dihydroxy-3',6'-epoxy-1',2',5',6',7',8'-hexahydro-6'-methyl-16'-nor- β - ϕ -carotene-1',8'-dione, 5874
 3,4,3',8'-Tetrahydroxy- β - κ -caroten-6'-one, 21085
- C₄₀H₅₆O₆**
 Lawsonic acid, 12581
 Methyl helicterate, 14479
 Methyl helicterilate, 14480
 Scaphopetalumate, 19457
- C₄₀H₅₆O₇**
 3 α -*trans*-Feruloyloxy-2 α -hydroxyurs-12-en-28-oic acid, 7785
 Uncarinic acid A, 22208
 Uncarinic acid B, 22209
 Uncarinic acid D, 22211
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- C₄₀H₅₆O₈**
 3-*O-trans*-Feruloyleuscaphic acid, 7772
- C₄₀H₅₆O₁₀**
 10 α ,13 α ,16 α -Trihydroxy-9 α -methyl-15-oxo-20-nor-kauran-19-oic acid γ -lactone-17-yl-16' α ,17'-dihydroxy-15'-oxo-*ent*-kaur-19'-oate, 21806
- C₄₀H₅₇N₃O₁₁**
 Giraldine G, 8454
- C₄₀H₅₈**
 β -Zearotene, 22973
- C₄₀H₅₈N₃O₁₁**
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- C₄₀H₅₈N₄O₁₀**
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 Parasiloxanthin, 16656
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- C₄₀H₅₈O₄**
 (3*S*,5*S*,6*R*,3'*R*,6'*R*)-5,6-Dihydro-5,6-dihydroxylutein, 5594
- C₄₀H₅₈O₅**
 3 β -*trans*-Feruloyloxy-16 β -hydroxylup-20(29)-ene, 7784
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- C₄₀H₅₈O₁₅**
 Stauntoside B, 20277
- C₄₀H₆₀**
 ζ -Carotene, 3215
- C₄₀H₆₀N₄O₁₀**
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 Pseudostellarin C, 18066
- C₄₀H₆₀O₅**
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- C₄₀H₆₀O₈**
 13-*O*-Acetylphorbol-20-linoleate, 484
- C₄₀H₆₀O₁₃**
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 Cynascyroside D, 4566
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 DraconinC, 6578
- C₄₀H₆₂**
 Phytofluene, 17264
- C₄₀H₆₂O₄**
 Annonebinide B, 1318
- C₄₀H₆₂O₉**
 3-*O*-(2,3-Dimethylbutanoyl)-13-*O*-dodecanoyl-20-acetylingenol, 6323
- C₄₀H₆₂O₁₁**
 1 α ,3 β -Hydroxyimberbic acid-23-*O*- α -L-3,4-diacetyl-rhamnopyranoside, 9741
- C₄₀H₆₂O₁₂**
 Prieurianoside, 17852
- C₄₀H₆₂O₁₃**
 Bidentatoside II, 2364
 30-Norhederagenin-3-*O*- β -D-glucosyl(1 \rightarrow 3)- α -L-arabinopyranoside, 15754
- C₄₀H₆₂O₁₄**
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 3-*O*-[*O*-(2-*O*-acetyl- α -L-arabinopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside)], 12592
 Withanoside V, 22709
- C₄₀H₆₂O₁₅**
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 21-Methoxyl-3 β -[*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranosyl]oxy]pregn-5,16-en-20-one, 13991
 Withanoside II, 22706
- C₄₀H₆₄**
 Phytoene, 17263
- C₄₀H₆₄O₂**
 Fritillebinide A, 7965
- C₄₀H₆₄O₃**
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 2-*O*-Acetyl-28-*O*-acetyl-rubianoside IV, 303
 Bacopasaponin G, 2083
 Hederagenin-3-*O*- β -D-xylo(1 \rightarrow 3)- α -L-arabinopyranoside, 9274
 3-*O*- α -L-Rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl-3 β ,23-dihydroxylup- $A^{20(29)}$ -en-28-oic-acid, 18686
 Yamogenin 3-*O*-neohesperidoside, 22880
- C₄₀H₆₄O₁₃**
 Brisbagenin-1-*O*-[*O*- α -L-rhamnopyranosyl(1 \rightarrow 3)-4-*O*-acetyl- α -L-arabinopyranoside], 2613
 Cimiside B, 3671
 Fargoside A, 7723
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 Pentandroside B, 16878
- C₄₀H₆₄O₁₆**
 16 α -Methoxyl-3 β -[*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranosyl]oxy]pregn-5-en-20-one, 13990
 Spongipregnoside D, 20233
- C₄₀H₆₆N₆**
 Ormosinine, 16207
- C₄₀H₆₆O₁₂**
 Gypenoside XXIX, 9141
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- C₄₀H₆₆O₁₄**
 (2*S*)-1 β -[β -D-Fucopyranosyl]oxy]-6 β -hydroxy-22 α -methoxy-3 α ,5 α -cyclofurostan-26-yl- β -D-glucopyranoside, 7977
- C₄₀H₆₆O₁₅**
 (2*S*)-1 β -[β -D-Glucopyranosyl]oxy]-6 β -hydroxy-22 α -methoxy-3 α ,5 α -cyclofurostan-26-yl- β -D-glucopyranoside, 8694
- C₄₀H₆₆O₁₆**
 Glycoside K (Periplocae), 8831
- C₄₀H₆₇NO₁₁**
 Hapepunine 3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside, 9221
- C₄₀H₆₈O₂**
 (*E*)-Phytol(5*Z*,8*Z*,11*Z*,14*Z*,17*Z*)-eicosapentaenoate, 17272

- C₄₀H₆₈O₁₂**
Gypenoside LXXVII, 9179
Lotoideside D, 13007
Lotoideside E, 13008
- C₄₀H₆₈O₁₃**
24S-Cycloartane-3 β ,16 β ,24,25,30-pentaol-3-*O*-(2- β -*D*-xylosyl)- β -*D*-xyloside, 4467
- C₄₀H₆₈O₁₄**
Anemarrhenasaponin Ia, 1172
- C₄₀H₇₀O₄**
Hentriacontanyl caffeate, 9365
- C₄₀H₇₃N₃O₃**
3'''-Oxo-juliprosopine, 16364
- C₄₀H₇₄O₅**
1-*O*-(9Z,12Z-Octadecadienyl)-3-*O*-nonadecanoyl glycerol, 15944
- C₄₀H₇₄O₁₂**
Azralidoside, 2064
- C₄₀H₇₄O₁₉**
1-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]hexadecanol, 18718
- C₄₀H₇₅NO₉**
Celebroside, 3371
1-*O*- β -*D*-Glucopyranosyl-(2*S*,3*R*,4*E*,11*E*)-2-(2'*R*-hydroxyhexadecenylamino)-4,11-octadecadiene-1,3-diol, 8672
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Soyacerebroside II, 20114
- C₄₀H₇₅N₃O₂**
Juliflorine, 11943
- C₄₀H₇₇NO₁₀**
Bonaroside, 2540
- C₄₀H₇₈**
Lycopadiene, 13201
- C₄₀H₇₉NO₅**
Urtica ceramide, 22273
- C₄₀H₈₁NO₄**
Trufflesphingolipid A, 22053
- C₄₀H₈₂**
Andrographan, 1150
- C₄₁H₂₆O₂₅**
Mautusinin, 13612
- C₄₁H₂₆O₂₆**
Alnusiin, 962
Castalagin, 3296
Glansrin C, 8506
Vescalagin, 22435
- C₄₁H₂₈O₁₀**
Thelephantin L, 21304
- C₄₁H₂₈O₁₁**
Terrestrin G, 21012
- C₄₁H₂₈O₂₆**
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Potentillin, 17750
Stachyurin, 20257
- C₄₁H₂₈O₂₇**
Geraniin, 8311
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2,3-*O*-Hexahydroxydiphenyl-4,6-*O*-sanguisorboyl-(α / β)-glucose, 9503
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- C₄₁H₃₀O₂₆**
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Eugeniin, 7518
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Chebulagic acid, 3490
Isoterchebin, 11735
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- C₄₁H₃₀O₂₈**
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- C₄₁H₃₂O₂₆**
1,2,3,4,6-Pentagalloylglucose, 16836
- C₄₁H₃₂O₂₇**
Chebulinic acid, 3493
- C₄₁H₃₂O₂₈**
Neochebulagic acid, 15362
- C₄₁H₃₇O₁₆**
Kaempferol 3-*O*- α -*L*-(2'',4''-di-*E*-feruloyl)-rhamnoside, 12040
- C₄₁H₄₁O₂₃⁺**
Delphinidin-3-*O*-[6-*O*-(*p*-coumaroyl)- β -*D*-glucopyranoside]-5-*O*-[4-*O*-acetyl-6-*O*-malonyl- β -*D*-glucopyranoside], 5017
- C₄₁H₄₂O₁₄**
Curtisian H, 4404
- C₄₁H₄₃NO₁₂**
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- C₄₁H₄₄O₂₁**
Myriophylloside D, 15195
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- C₄₁H₄₄O₂₂**
Myriophylloside B, 15193
- C₄₁H₄₄O₂₃**
Myriophylloside C, 15194
- C₄₁H₄₄O₂₄**
Quercetin-3-*O*-(2-*E*-caffeoyl)- α -*L*-arabinopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside-7-*O*- β -*D*-glucopyranoside, 18331
- C₄₁H₄₆N₄O₃**
Tenuicausine, 20933
- C₄₁H₄₆O₁₃**
3-Acetyl-5 β ,8 α -dibenzylformyl-14-propanoyl myrsinoltype diterpene with C9-C10 cyclized to form an additional lactone ring, 373
- C₄₁H₄₇NO₁₄**
Kansuinin E, 12141
- C₄₁H₄₇NO₁₅**
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- C₄₁H₄₇NO₁₉**
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- C₄₁H₄₇NO₂₀**
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- C₄₁H₄₈N₂O₈**
Thalicarpine, 21239
- C₄₁H₄₈N₂O₉**
Thaliadanine, 21237
- C₄₁H₄₈O₁₁**
Manassantin B, 13475
Saucernetin 7, 19405
- C₄₁H₄₉NO₁₃**
N-Debenzoyl-*N*-propanoyl-10-deacetyl paclitaxel, 4810
- C₄₁H₅₀N₆O₉**
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- C₄₁H₅₀N₆O₁₀**
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- C₄₁H₅₀O₁₄**
Taxuspine X, 20871
- C₄₁H₅₁NO₁₁**
Liaconitine B, 12737
- C₄₁H₅₂O₁₄**
Taxchin B, 20769
- C₄₁H₅₂O₂₁**
Korepimedeside C, 12274
- C₄₁H₅₃NO₁₁**
Liwaconitine, 12935
- C₄₁H₅₃NO₁₃**
Austrotaxine, 2025
- C₄₁H₅₄N₄O₃**
20-Epi-16'-decarbomethoxy-conoduramine, 6885
- C₄₁H₅₄O₁₂**
Nimboldin D, 15608

- C₄₁H₅₅NO₁₂**
Austrospicatine, 2024
- C₄₁H₅₅NO₁₃**
7β-Acetoxy-9-acetylspicataxine, 120
2α-Acetoxy-2β-deacetylaustrospicatine, 150
Taxuspine P, 20863
- C₄₁H₅₅NO₁₄**
2α-Acetoxy-2β-deacetyl-1-hydroxyaustrospicatine, 152
- C₄₁H₅₆N₂O₇**
Incarvillateine D, 11008
- C₄₁H₅₆N₂O₁₁**
Elanine, 6732
- C₄₁H₅₆O₂**
Vitamin K₂, 22563
- C₄₁H₅₆O₄**
3-Methoxy-3'-hydroxy-5',8'-epoxy-5',8'-dihydro-5,6-seco-4,6-cyclo-β,β-caroten-5-one, 13955
(all-*E*)-3-Methoxy-3'-hydroxy-5',6'-epoxy-5',6'-dihydro-5,6-seco-4,6-cyclo-β,β-caroten-5-one, 13956
(9*Z*)-3-Methoxy-3'-hydroxy-5',6'-epoxy-5',6'-dihydro-5,6-seco-4,6-cyclo-β,β-caroten-5-one, 13957
- C₄₁H₅₆O₆**
Fucoxanthin, 7979
- C₄₁H₅₆O₁₃**
(2*R*,3*R*,4*R*,5*R*,7*S*,8*S*,9*S*,11*E*,13*S*,15*R*)-2,3,5,7,8,9,15-Heptahydroxyjatropa-6(17),11-diene-14-one-7,9-diacetate-8-benzoate-2,3-bis(2-methylbutyrate), 9395
- C₄₁H₅₆O₂₄**
Velutinoside II, 22371
- C₄₁H₅₈O₃**
Formosadimer A, 7886
Sugikurojin B, 20458
- C₄₁H₅₈O₁₀**
10α-Hydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid methyl ester-16α-yl-14α,16'α,17'-trihydroxy-15'-oxo-*ent*-kaur-11'-en-19'-oate, 10512
- C₄₁H₅₉N₃O₁₁**
Giraldine H, 8455
- C₄₁H₆₀N₂O₁₁**
Potanidine A, 17743
- C₄₁H₆₀O₄**
24-Methylene cycloartanol ferulate, 14353
- C₄₁H₆₀O₆**
3β-*trans*-Sinapoyloxylup-20(29)-en-28-ol, 19920
- C₄₁H₆₀O₇**
Myxoxanthophyll, 15227
- C₄₁H₆₀O₁₆**
Neocynapanoside A, 15389
- C₄₁H₆₂O₄**
Cycloartenyl ferulate, 4475
24-Methylcycloartanol ferulate, 14267
- C₄₁H₆₂O₁₃**
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- C₄₁H₆₂O₁₄**
Apioglycyrrhizin, 1519
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- C₄₁H₆₂O₁₅**
Achyranthoside II, 544
- C₄₁H₆₂O₁₆**
Ageratoside C₁, 735
- C₄₁H₆₃NO₁₄**
Protoveratrine A, 17995
- C₄₁H₆₃NO₁₅**
Neoprotoveratrine, 15452
- C₄₁H₆₄N₈O₉**
Glabrin C, 8494
- C₄₁H₆₄O₄**
Cycloartanol ferulate, 4470
- C₄₁H₆₄O₈**
Julibrogenin A, 11916
- C₄₁H₆₄O₁₂**
3β-[(*α*-*L*-Arabinopyranosyl)oxy]-urs-11,13(18)-dien-28-oic acid β-*D*-glucopyranosyl ester, 1590
3β-[(*α*-*L*-Arabinopyranosyl)oxy]urs-12,19(29)-dien-28-oic acid 28-β-*D*-glucopyranosyl ester, 1591
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- C₄₁H₆₄O₁₃**
3β-[(*α*-*L*-Arabinopyranosyl)oxy]-23-hydroxyurs-12,19(29)-dien-28-oic acid 28-β-*D*-glucopyranosyl ester, 1583
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2α,3β-Dihydroxyurs-12,20(30)-dien-28-oic acid 3-*O*-{[*O*-β-*D*-xylopyranosyl-(1→3)]-*D*-glucopyranoside}, 6171
Oleanolic acid-3-*α*-*L*-arabinofuranosyl(1→4)-β-*D*-glucuronopyranoside, 16046
Ophiopogonin A, 16143
Styraxoside B, 20429
- C₄₁H₆₄O₁₄**
Aquilegioside B, 1543
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Ilekidinoside I, 10979
Randiasaponin I, 18535
- C₄₁H₆₄O₁₆**
Esculentoside F, 7373
- C₄₁H₆₅O₁₆S⁻**
Bacopaside III, 2088
- C₄₁H₆₆O₁₁**
α-*L*-Arabinofuranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→3)3β-hydroxy-lup-20(29)-ene, 1557
Eleutheroside I, 6755
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- C₄₁H₆₆O₁₂**
Anemoside A₃, 1181
3-*O*-*α*-*L*-Arabinopyranosyl hederagenin 28-*O*-*α*-*L*-rhamnopyranosyl ester, 1572
3β-*D*-*O*-(*α*-*L*-Arabinopyranosyl)-lup-20(29)-ene-28-*O*-β-*D*-glucopyranosyl ester, 1575
Flaccidin B, 7806
3-*O*-β-*D*-Glucopyranosyl(1→3)-*α*-*L*-arabinopyranosyl oleanolic acid, 8607
α-Hederin, 9276
Oleanolic acid-3-*O*-β-*D*-glucopyranosyl(1→2)-*α*-*L*-arabinopyranoside, 16053
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Polyfoliolide B, 17623
Raddeanoside, 18521
Sapindoside A, 19316
Saponin E₃, 19342
Scabioside B, 19443
- C₄₁H₆₆O₁₃**
3β-[(*α*-*L*-Arabinopyranosyl)oxy]-19*α*-hydroxyolean-12-en-28-oic acid 28-β-*D*-glucopyranosyl ester, 1580
3β-[(*α*-*L*-Arabinopyranosyl)oxy]-23-hydroxyolean-12-en-28-oic acid 28-β-*D*-glucopyranosyl ester, 1581
3β-[(*α*-*L*-Arabinopyranosyl)oxy]-19*α*-hydroxyurs-12-en-28-oic acid 28-β-*D*-glucopyranosyl ester, 1586
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3-*O*-*α*-*L*-Arabinopyranosylcimigenol 15-*O*-β-*D*-glucopyranoside, 1561
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- C₄₁H₆₈O₁₀**
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- C₄₁H₆₈O₁₂**
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 3 β ,23-Dihydroxy-lup-20(29)-ene-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 5951
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 7 β ,20,26-Trihydroxy-(20*S*)-dammar-24*E*-en-3-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 21698
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 7 β ,18,20,26-Tetrahydroxy-(20*S*)-dammar-24*E*-en-3-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 21089
 3 β ,12 β ,23*S*,24*R*-Tetrahydroxy-20*S*,25-epoxy-
- dammarane 3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)]- β -*D*-xylopyranoside, 21101
 3 β ,12 β ,23*S*,24*R*-Tetrahydroxy-20*S*,25-epoxy-dammarane 3-*O*-[β -*D*-xylopyranosyl(1 \rightarrow 2)]- β -*D*-glucopyranoside, 21103
- C₄₁H₇₄O₆**
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- C₄₁H₇₇NO₉**
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- C₄₁H₇₈O₁₂S**
 (2*S*)-1,2-Di-*O*-palmitoyl-3-*O*-(6-sulpho- α -*D*-quinovopyranosyl) glycerol, 6481
- C₄₁H₇₈O₈**
 Methyl-2 β (2*S*)-*O*- β -*D*-galactopyranosyl-7(*E*)-tetratricontenoate, 14452
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 7-*O*- β -*D*-Glucuronopyranosyl-4'-*O*-[2'-*O*-*p*-*E*-coumaroyl-*O*- β -*D*-glucuronopyranosyl(1 \rightarrow 2)-*O*- β -*D*-glucuronopyranoside]apigenin, 8762
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 Kaempferol 3-*O*- α -*L*-[6'''-*p*-coumaroyl-(β -*D*)-glucopyranosyl-(1,2)-rhamnopyranoside]-7-*O*- β -*D*-glucopyranoside, 12033
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- C₄₂H₄₈O₁₁**
 Taxuspine A, 20849
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- C₄₂H₄₈O₁₃**
 2-Deacetyl-2 α -benzoyl-5,13-diacetyltaxchinin A, 4731
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 9-*O*-Benzoyl-9-de-*O*-acetyl-11(15 \rightarrow 1)-abeobaccatin VI, 2235
 2 α ,7 β -Dibenzoyl-5 β ,20-epoxy-1 β -hydroxy-4 α ,9 α ,10 β ,13 α -tetraacetoxytax-11-ene, 5383
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- C₄₂H₄₈O₁₈**
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- C₄₂H₄₈O₂₀**
 Reiniöse D, 18606
- C₄₂H₄₈O₂₂**
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- C₄₂H₄₉NO₁₄**
N-Acetyl-*N*-debenzoyltaxol, 367
- C₄₂H₅₀N₂O₉**
 Adiantifoline, 631
- C₄₂H₅₀N₄O₄**
 Ervahanine A, 7294
- C₄₂H₅₀N₄O₅**
 Conodutarine B, 4001
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- C₄₂H₅₀N₄O₆**
 Conodurinine, 3999
- C₄₂H₅₀N₆O₁₁**
 Rubia akane RA-XI, 18989
- C₄₂H₅₀O₁₆**
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- C₄₂H₅₁NO₁₃**
N-Debenzoyl-*N*-butanoyl-10-deacetylpaclitaxel, 4804
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N-Demethylnicaustrine, 5087
- C₄₂H₅₂N₄O₅**
 Conodutarine A, 4000
- C₄₂H₅₂N₆O₁₀**
 Rubia akane RA-VIII, 18986
- C₄₂H₅₂O₁₁**
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 Saucernetin 8, 19406
- C₄₂H₅₆N₈O₉**
 Pseudostellarin G, 18069
- C₄₂H₅₆O₁₄**
 Daturametelin G-AC, 4671
- C₄₂H₅₈N₂O**
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- C₄₂H₆₀O₁₆**
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 Yunganoside E₂, 22944
- C₄₂H₆₀O₂₀**
 Premnaodoroside G, 17821
- C₄₂H₆₂O₈**
 (1*E*,22*Z*)-1,22-Diferuloyloxydocosane, 5505
- C₄₂H₆₂O₁₅**
 Licoricesaponin C₂, 12785
- C₄₂H₆₂O₁₆**
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- Premnaodoroside E, 17818
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- C₄₂H₆₄O₁₃**
 Atratoside A, 1993
- C₄₂H₆₄O₁₄**
 Picfeltarraenin IB, 17295
- C₄₂H₆₄O₁₅**
 Abrusoside C, 33
 3-*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-gypsogenin, 8057
 Glaucogenin C 3-*O*- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranoside, 8520
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 Khekadaengoside A, 12208
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 k-Strophantylside, 20405
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- C₄₂H₆₄O₂₀**
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- C₄₂H₆₆O₅**
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 Putranoside A, 18229
 3-*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 3)- β -*D*-glucuronopyranosyl-3 β -hydroxyolean-12-en-28-oate, 18723
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranosyl]oleanolic acid, 18726
- C₄₂H₆₆O₁₄**
Calendula officinalis Glycoside D, 2972
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 Cincholic acid
 3 β -*O*- β -*D*-fucopyranosyl-28-*O*- β -*D*-glucopyranosyl ester, 3677
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 3 β -*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranoside, 3678
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- Fargoside E, 7727
 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -*D*-glucuronopyranosyl]-15- α -hydroxyolean-12-en-16-one, 8663
 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-quinovopyranosyl quinovic acid, 8714
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 Quinovic acid 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-quinovopyranoside, 18434
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 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranosyl]echinocystic acid, 18721
 Spinasaponin A, 20166
- C₄₂H₆₆O₁₅**
 Azukisaponin III, 2067
 Dianoside A, 5358
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 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl]phytolaccinic Acid, 8750
 Hederagenin-28-*O*- β -*D*-glucuronopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranoside, 9266
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- C₄₂H₆₆O₁₆**
 Dianoside C, 5360
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 Metaplexigenin-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 13818
- C₄₂H₆₆O₁₇**
 Stelmatotriterpenoside H, 20290
- C₄₂H₆₆O₁₈**
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- C₄₂H₆₆O₂₀**
- Premnaodoroside A, 17814
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- C₄₂H₆₇KO₁₄**
 Potassium salt of longispinogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranoside, 17749
- C₄₂H₆₇KO₁₅**
 Potassium salt of 29-hydroxy longispinogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranoside, 17748
- C₄₂H₆₇NaO₁₈S**
 2 α ,23-Dihydroxy-3 β -sulfoxyolean-12-en-28-oic acid *O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester sodium salt, 6138
- C₄₂H₆₈O₁₂**
 Oleanolic acid-3- β -*D*-galactopyranosyl-(1 \rightarrow 2)- β -*D*-fucopyranoside, 16047
 Saikosaponin E, 19149
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 Arvensoside A, 1829
 Azukisaponin I, 2065
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 3-*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl-oleanolic acid, 8054
 Hemsloin A, 9357
 Illexside I methyl ester, 10986
 Kaikasaponin I, 12111
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 Saikosaponin B₂, 19143
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- C₄₂H₆₈O₁₄**
 Azukisaponin II, 2066
 Bacopaside N₁, 2091
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 Bourneioside A, 2572
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 Hederagenin-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9264
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 Centellasaponin B, 3395
- C₄₂H₆₈O₁₇**
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 Platycoside L, 17545
- C₄₂H₆₈O₁₇S**
 Sulfopatrinoside I, 20476
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 Acanthoside K₃, 88
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- C₄₂H₇₀O₁₃**
 Curculigosaponin G, 4384
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- C₄₂H₇₀O₁₄**
 23-*O*-Acetyl-3 β ,12 β ,23 β ,24 β -tetrahydroxy-20 β ,25-epoxydammarane 3-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-xylopyranoside, 521
 Gypenoside XL, 9149
 Hydroxysaikosaponin A, 10685
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 Justicioside A, 11983
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- C₄₂H₇₀O₁₄S**
 Atriplicosaponin B, 1998
- C₄₂H₇₀O₁₅**
 Beesioside H, 2199
- C₄₂H₇₀O₁₆**
 Iridalglycoside 5b, 11135
 Iridalglycoside 6c, 11138
- C₄₂H₇₂O₂**
 α -Amyrin laurate, 1115
 β -Amyrin laurate, 1116
- C₄₂H₇₂O₁₃**
 Ginsenoside Rg₂, 8431
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 Ginsenoside Ia, 8413
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 Gypenoside LI, 9156

- Gypenoside LXXIV, 9176
 2 α ,3 β ,12 β ,20(S)-3-Hydroxydammar-24-en-20-
O- β -D-glucopyranoside, 9958
 Pseudoginsenoside F₁₁, 18025
 24S,3 β ,11 α ,16 β ,24-Tetrahydroxycycloartanol-
 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside, 21088
 Yixinoside B, 22914
- C₄₂H₇₂O₁₅**
 6-*O*- β -D-Glucopyranosyl-20-*O*- β -D-glucopyranosyl-3 β ,6 α ,12 β ,20(S),25-pentahydroxydammar-23-ene, 8651
 Gycomoside I, 9094
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 Momorcharaside A, 14907
- C₄₂H₇₂O₁₆**
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- C₄₂H₇₄O₁₅**
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- C₄₂H₇₄O₁₆**
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 Parvifolinoic acid, 16686
- C₄₂H₇₉NO₉**
 Cerebroside 5, 3420
 Sphingolipid Lipids01-521, 20154
- C₄₂H₈₁NO₄**
 1,3,5-Trihydroxy-2-hexadecanoylamino-(6*E*,9*E*)-heptacosdiene, 21741
- C₄₂H₈₃NO₅**
 Anticancer Ceramide PMV70P691-009, 1391
- C₄₂H₈₅NO₅**
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- C₄₃H₃₂N₂O₉**
meso-Chelidimerine, 3500
- C₄₃H₃₂O₂₀**
 Theaflavin 3,3'-digallate, 21280
- C₄₃H₃₃O₁₂**
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- C₄₃H₃₄O₂₂**
 Trilobatin G, 21882
- C₄₃H₃₄O₂₃**
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- C₄₃H₃₆O₁₈**
 1,3,4,5-Tetracaffeoylquinic acid, 21034
- C₄₃H₃₆O₂₁**
 Trilobatin E, 21880
- C₄₃H₄₂O₂₃**
 Trilobatin I, 21884
- C₄₃H₄₂O₂₆**
 7-*O*- β -D-Glucuronopyranosyl-4'-*O*-[2'-*O*-*E*-feruloyl-*O*- β -D-glucuronopyranosyl(1 \rightarrow 2)-*O*- β -D-glucuronopyranoside]apigenin, 8763
- C₄₃H₄₄O₆**
 GBB A, 8247
 GBB B, 8248
- C₄₃H₄₆O₁₅**
 Epioritin-4 α -ol-(6 \rightarrow 6)-epioritin-4 β -ol hepta-*O*-methylether triacetate, 6985
- C₄₃H₄₇N₃O₉**
 Milliamine B, 14860
 Milliamine C, 14861
- C₄₃H₄₈N₂O₁₀**
 Isopythaldine, 11641
- C₄₃H₄₈O₁₆**
 Dryocerassin, 6611
 Norflavaspidic acid, 15749
- C₄₃H₄₈O₂₂**
 Kaempferol-3-rhamnoside-7-*O*-[6-feruloylglucosyl(1 \rightarrow 3)-rhamnoside], 12085
- C₄₃H₄₈O₂₃**
 Isoscoparin 2''-*O*-(6'''-*E*)-coumaroyl]glucoside-4'-*O*-glucoside, 11701
 Isovitexin 2''-*O*-(6'''-*E*)-feruloyl]glucoside-4'-*O*-glucoside, 11776
- C₄₃H₄₉NO₁₇**
 Neowilforine, 15476
- C₄₃H₄₉NO₁₈**
 Euoverrine B, 7538
 Wilforine, 22682
- C₄₃H₄₉NO₁₉**
 Wilfordine, 22677
 Wilfordside, 22679
 Wilforine B, 22687
- C₄₃H₄₉O₂₃⁺**
 Pelargonidin-3-*O*-[6-*O*-(*E*)-feruloyl-2-*O*- β -D-glucopyranosyl]-(1 \rightarrow 2)- β -D-glucopyranoside (-5-*O*- β -D-glucopyranoside), 16784
- C₄₃H₅₀N₆O₁₀**
 Rubia akane RA-IX, 18987
- C₄₃H₅₁NO₁₃**
 10-Deacetyltaxol B, 4784
- C₄₃H₅₂N₂O₁₀**
 Methoxyadiantifoline, 13836
- C₄₃H₅₂N₄O₅**
 Conodurine, 3998
 Voacamine, 22596
- C₄₃H₅₂N₄O₆**
 Cononitarine B, 4003
 19'(S)-Hydroxyconoduramine, 9933
 19'(S)-Hydroxyconodurine, 9934
- C₄₃H₅₂N₄O₇**
 Callophylline A, 2981
 Conodiparine E, 3996
 Conodiparine F, 3997
 Cononitarine A, 4002
- C₄₃H₅₂N₄O₈**
 Callophylline B, 2982
- C₄₃H₅₂N₆O₁₁**
 Rubia akane RA-X, 18988
- C₄₃H₅₃NO₁₁**
 10 β -Benzoyloxy-1 β -hydroxy-5 α -(3'-methylamino-3'-phenyl)propanoxy-7 β ,9 α ,13 α -triace-toxy-11(15 \rightarrow 1)-abeo-taxa-4(20),11-diene, 2258
- C₄₃H₅₃N₉O₁₂**
 Lyciumin A methylate, 13179
- C₄₃H₅₄N₂O₁₁**
 Nicaustrine, 15523
- C₄₃H₅₄O₄**
 3,29-*O*-Dibenzoyloxykarounidiol, 5386
- C₄₃H₅₄O₂₃**
 Tubuloside D, 22096
- C₄₃H₅₄O₂₄**
 Tubuloside C, 22095
- C₄₃H₅₆N₄O₅**
 Ervadivaricatine A, 7292
 Ervadivaricatine B, 7293
- C₄₃H₅₆O₁₃**
 Rediocide E, 18565
- C₄₃H₅₆O₂₁**
 Hedyotol C 4,4''-di-*O*- β -D-glucopyranoside, 9284
- C₄₃H₅₇NO₁₄**
 2 α -Acetoxyaustrospicatine, 127
- C₄₃H₅₇NO₁₅**
 (2'*S*,3'*R*)-5-(*N,N*-Dimethyl-3'-phenylisoserilyl)-taxachitriene A, 6395
- C₄₃H₅₈O₆**
 Guttiferone G, 9090
- C₄₃H₅₈O₁₅**
 Cynaphylloside B, 4557
- C₄₃H₆₀O₄**
 6-Geranylgeranyl 8'-methyl-6,8'-diapocaroten-6,8'-dioate, 8317
- C₄₃H₆₀O₂₀**
 Azecin 1, 2054
- C₄₃H₆₂N₈O₈**
 Grifficyclocin A, 9001
- C₄₃H₆₂O₁₁**
 21 β -Benzoylsitakigenin-3-*O*- β -D-glucuronopyranoside, 2272
 Voamatine C, 22600
- C₄₃H₆₂O₁₇**

- 3-*O*-[β -*D*-Glucuronopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucuronopyranosyl]-24-hydroxyglabrolide, 8764
- C₄₃H₆₂O₂₃**
Jasnudifloside H, 11828
- C₄₃H₆₄O₈**
13-*O*-Tigloylphorbol-20-linoleate, 21381
- C₄₃H₆₄O₁₁**
(22*S*)-Cholest-5-ene-3 β ,11 α ,16 β ,22-tetrol 16-*O*-{2-*O*-acetyl-3-*O*-(*p*-methoxybenzoyl)- α -*L*-rhamnopyranoside}, 3580
- C₄₃H₆₄O₁₆**
Abrusoside B, 32
- C₄₃H₆₆N₁₂O₁₂S₂**
Oxytocin, 16478
- C₄₃H₆₆O₅**
Revandchinone 2, 18670
- C₄₃H₆₆O₁₄**
 α -Acetyldigitoxin, 377
Gymnemic acid I, 9110
- C₄₃H₆₆O₁₆**
Neoruscogenin 1-*O*-{*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranoside}, 15455
- C₄₃H₆₈O₁₃**
Sanguisorbin E, 19288
- C₄₃H₆₈O₁₄**
Pomolic acid-3 β -*O*- α -*L*-2-acetoxyarabinopyranosyl-28-*O*- β -*D*-glucopyranoside, 17697
- C₄₃H₆₈O₁₅**
Eupteleasaponin IX, 7632
3-*O*-[β -*D*-Glucopyranosyl (1 \rightarrow 3)- β -*D*-6-*O*-methyl-glucuronopyranosyl]-3 β ,15 α ,23-trihydroxyolean-12-en-16-one, 8683
Saponin 2, 19334
Saponin 3, 19335
Yiamoloside B, 22903
- C₄₃H₆₈O₁₆**
Aferoside A, 668
- C₄₃H₆₈O₁₇**
Laxogenin 3-*O*-{*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)-*O*-[α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside]}, 12594
- C₄₃H₆₈O₂₂**
Rebaudioside F, 18561
- C₄₃H₇₀O₁₃**
3-*O*-[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-sophoradiol methyl ester, 8063
16 α ,23,28,30-Tetrahydroxyolean-11,13(18)-dien-3 β -yl- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside, 21139
- C₄₃H₇₀O₁₅**
Astragaloside II, 1937
- Davuricoside D, 4699
Isoastragaloside II, 11243
PM-2004-70-458-3b, 17578
- C₄₃H₇₀O₁₆**
Aquilegioside F, 1547
Aspafilioside B, 1861
Asparamin C, 1878
Methyl 3-*O*- β -laminaribiosyl polygalactate, 14549
3-*O*-{[β -*D*-Xylopyranosyl(1 \rightarrow 4)][α -*L*-arabinopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl}-(25*S*)-5 β -spirostan-3 β -ol, 22821
- C₄₃H₇₂O₄**
Diosgenin palmitate, 6445
Yamogenin palmitate, 22881
- C₄₃H₇₂O₁₁**
Acanthoside K₂, 87
- C₄₃H₇₂O₁₃**
Bupleurosides IX, 2756
Cyclocarioside A, 4482
Saikosaponin T, 19162
- C₄₃H₇₂O₁₄**
Bupleurosides III, 2753
Justicioside C, 11985
Saikosaponin B₃, 19144
Saikosaponin B₄, 19145
- C₄₃H₇₂O₁₅**
23-*O*-Acetyl-3 β ,12 β ,23*S*,24*R*-tetrahydroxy-20*S*,25-epoxydammarane 3-*O*-[β -*D*-xylopyranosyl(1 \rightarrow 2)]- β -*D*-glucopyranoside, 520
Vina-ginsenoside R₂, 22484
- C₄₃H₇₂O₁₆**
Cyclotricuspodoside A, 4539
- C₄₃H₇₂O₁₇**
Cyclotricuspodoside B, 4540
Cyclotricuspodoside C, 4541
- C₄₃H₇₃NO₁₃**
Abutiloside K, 44
- C₄₃H₇₄O₂**
Ergosta-7,22-dien-3 β -yl pentadecanoate, 7246
- C₄₃H₇₄O₄**
2-Tritriacontyl-5-hydroxy-7-methoxychromone, 22045
- C₄₃H₇₇NO₄**
3-*O*-14,15-Eicosylenoyl-4-*O*-stearoyl-1-cyano-2-oxymethyl-1,2-propene, 6728
- C₄₃H₈₀O₁₀**
Arisaema glyceride 3, 1690
- C₄₃H₈₇NO₅**
Soyasphingosine A, 20130
Sponge sphingolipid, 20224
- C₄₄H₂₆O₁₂**
Bisodiospyrin, 2478
- C₄₄H₂₆O₁₄**
6',8'-Bisdiosquinone, 2447
- C₄₄H₃₂O₂₇**
Phyllanthusiin D, 17220
- C₄₄H₃₄O₂₀**
Procyanidin B₂ 3,3'-di-*O*-gallate, 17896
- C₄₄H₃₄O₂₂**
Prodelphinidin B 23,3'-di-*O*-gallate, 17900
Theasinensin A, 21290
- C₄₄H₄₄O₂₄**
Precarthamin, 17771
- C₄₄H₄₆O₁₈**
6-*O*- α -*L*-(2"-*O*-,3"-*O*-Dibenzoyl,4"-*O*-*cis*-*p*-coumaroyl)rhamnopyranosylcatalpol, 5381
6-*O*- α -*L*-(2"-*O*-,3"-*O*-Dibenzoyl,4"-*O*-*trans*-*p*-coumaroyl)rhamnopyranosylcatalpol, 5382
- C₄₄H₄₈O₁₅**
Taxacin, 20738
- C₄₄H₄₈O₂₁**
Shigansu C, 19799
- C₄₄H₅₀N₈**
Psycholeine, 18093
Quadrigemine A, 18295
Quadrigemine B, 18296
- C₄₄H₅₀O₁₄**
Taxchinin B, 20771
- C₄₄H₅₀O₂₅**
Kaempferol-3- β -*D*-glucopyranosyl-7-*O*-[(2-*O*-*trans*-sinnapoyl)- β -*D*-glucopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside, 12059
Kaempferol-4'-(6-*O*-*E*-sinnapoyl)- β -glucopyranoside)-3,7-di-*O*- β -glucopyranoside, 12092
Kaempferol-3-(2"-*O*-*E*-sinnapoylsophoroside)-7-*O*- β -glucopyranoside, 12094
Kaempferol-3-*O*-sophoroside-7-*O*-(2-*O*-*E*-sinnapoyl)- β -glucopyranoside), 12096
- C₄₄H₅₀O₂₆**
Quercetin-3'-(6-sinnapoyl)-*O*- β -*D*-glucopyranosyl)-3,4'-di-*O*- β -*D*-glucopyranoside, 18394
- C₄₄H₅₂N₄O₇**
Conodiparine C, 3994
- C₄₄H₅₂N₂O₁₀**
Isopyruthaldine, 11640
- C₄₄H₅₂N₄O₇**
Conodiparine D, 3995
- C₄₄H₅₃NO₁₃**
10-Deacetyl-10-oxo-7-epitaxuyunnanin A, 4766
- C₄₄H₅₃NO₁₄**
Taxol D, 20814
- C₄₄H₅₄N₄O₇**
Conodiparine A, 3992
Conodiparine B, 3993
- C₄₄H₅₄O₈**
Jatropha factor C₁, 11836

- Jatropha factor C₂, 11837
 Jatropha factor C₃, 11838
 Jatropha factor C₄, 11839
 Jatropha factor C₅, 11840
 Jatropha factor C₆, 11841
- C₄₄H₅₅NO₁₁**
 10β-Benzoyloxy-5α-(3'-dimethylamino-3'-phenyl)propanoxy-1β-hydroxy-7β,9α,13α-triacetoxy-11(15→1)-abeo-taxa-4(20),11-dien, 2256
- C₄₄H₅₅NO₁₃**
 10-Deacetylaxuyunnanine A, 4787
 7-Epi-10-deacetylaxuyunnanine A, 6884
- C₄₄H₅₆N₄O₇**
 Deacetoxyvinblastine, 4709
- C₄₄H₅₆N₄O₈**
 Pseudovincal leukoblastine diol, 18073
- C₄₄H₅₆O₂₂**
 Epimedokoreanoside I, 6962
- C₄₄H₅₆O₂₃**
 Insularoside 6'''-O-β-glucosi-(3'→1)-β-D-glucoside, 11090
- C₄₄H₅₇NO₄**
 3-O-*p*-Aminobenzoyl-29-O-benzoylmultiflora-7,9(11)-diene-3α,29-diol, 1043
- C₄₄H₅₈O₁₃**
 Rediocide A, 18563
- C₄₄H₅₈O₂₁**
 Hedysalignan A, 9285
- C₄₄H₅₉Br₂N₃O₄**
 Di-*p*-bromobenzoate of tetrahydrodeoxyoxolucidine B, 5398
- C₄₄H₅₉NO₅**
 3-O-*p*-Aminobenzoyl-29-O-benzoylmultiflora-8-ene-3α,7β,29-triol, 1044
- C₄₄H₆₀O₂₄**
 Gymnoside VIII, 9111
- C₄₄H₆₂O₁₈**
 Hancoside A, 9217
- C₄₄H₆₄N₂O₃**
 Pukeensine, 18189
- C₄₄H₆₄O₁₀**
 Isodopharicin E, 11398
- C₄₄H₆₄O₁₇**
 Draconin A, 6576
- C₄₄H₆₄O₂₄**
 Crocin, 4249
- C₄₄H₆₆O₈**
 (1*E*,24*Z*)-1,-24-Diferuloyloxytetracosane, 5506
 1,24-Tetracosanediol diferulate, 21037
- C₄₄H₆₆O₁₉**
 Funingenoside A, 8005
- C₄₄H₆₈O₆**
 Fritillebinide D, 7968
 Fritillebinide E, 7969
- C₄₄H₆₈O₇**
 Fritillebin B, 7962
- C₄₄H₆₈O₁₆**
 Neoruscogenin 1-*O*-{*O*-α-*L*-rhamnopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-β-*D*-fucopyranoside}, 15456
- C₄₄H₆₈O₁₉**
 Funingenoside B, 8006
- C₄₄H₇₀O₁₄**
 3''-*O*-Acetylsaikosaponin A, 498
 2''-*O*-Acetylsaikosaponin D, 500
 3''-*O*-Acetylsaikosaponin D, 501
 4''-*O*-Acetylsaikosaponin D, 502
 6''-*O*-Acetylsaikosaponin D, 503
 1α,3β-Hydroxyimberbic acid-23-*O*-α-[*L*-4-acetyl-rhamnopyranosyl]-29-*O*-α-rhamnopyranoside, 10227
- C₄₄H₇₀O₁₆**
 Diosgenin-3-*O*-α-*L*-rhamnopyranosyl-(1→2)[α-*L*-arabinofuranosyl-(1→4)]-β-*D*-glucopyranoside, 6446
 Lililancifoloside A, 12833
 Ophiopogonin D, 16146
 Ophiopogonin D', 16147
 Pariphyllin, 16668
 Polyphyllin D, 17655
 Rivaloside C, 18850
 25(*S*)-Ruscogenin 1-*O*-[α-*L*-rhamnopyranosyl-(1→2)][β-*D*-xylopyranosyl-(1→3)]-β-*D*-fucopyranoside, 19072
- C₄₄H₇₀O₁₇**
 Caudaside A, 3328
 Pennogenin-3-*O*-α-*L*-arabinofuranosyl(1→4)-[α-*L*-rhamnopyranosyl(1→2)]-β-*D*-glucopyranoside, 16811
- C₄₄H₇₀O₁₈**
 CTHD0233276-4, 4299
 Ophiopogon A, 16135
- C₄₄H₇₀O₁₉**
 Chinenoside VI, 3528
- C₄₄H₇₀O₂₁**
 3-*O*-β-Lycotetraosyl 3β-hydroxy-5α-pregn-16-en-20-one, 13242
- C₄₄H₇₂O₁₃**
 3-*O*-[β-*D*-Galactopyranosyl-(1→2)-β-*D*-glucuronopyranosyl]-sophoradiol ethyl ester, 8062
- C₄₄H₇₂O₁₅**
 6''-*O*-Acetylsaikosaponin B₃, 499
 Kahiricoside V, 12110
- C₄₄H₇₂O₁₆**
 Asparanin B₂, 1870
 Convallasaponin C, 4010
- C₄₄H₇₂O₁₇**
 AS-1 A, 1830
 3-*O*-[β-*D*-Xylopyranosyl(1→4)-β-*D*-glucopyranosyl(1→2)-β-*D*-glucopyranosyl]-(2*S*)-5β-spirostan-3β-ol, 22828
- C₄₄H₇₂O₁₈**
 Trigoneoside VIII, 21673
- C₄₄H₇₄O₁₅**
 Vina-ginsenoside R₁, 22483
 Yesanchinoside D, 22896
- C₄₄H₇₄O₁₆**
 Yesanchinoside A, 22893
- C₄₄H₇₄O₁₈**
 26-*O*-β-*D*-Glucopyranosylfurostane-3β,26-diol-3-*O*-β-*D*-xylopyranosyl(1→4)-β-*D*-glucopyranoside, 8632
 Trigoneoside IIa, 21667
 Trigoneoside IIb, 21668
- C₄₄H₇₄O₁₉**
 Trigoneoside Ia, 21665
 Trigoneoside Ib, 21666
 Trigoneoside XIb, 21676
- C₄₄H₇₄O₂₄**
 Mukurozioside I_b, 15030
- C₄₄H₇₅NO₁₃**
 Abutiloside I, 42
- C₄₄H₇₆O₂**
 α-Amyrin myristate, 1119
 β-Amyrin myristate, 1120
- C₄₄H₇₆O₃**
 Arnidiol 3-*O*-myristate, 1751
 16β-Hydroxylupeol 3-*O*-myristate, 10347
 Maniladiol 3-*O*-myristate, 13498
- C₄₄H₇₆O₁₈**
 Pentandroside E, 16881
- C₄₄H₇₆O₂₄**
 Mukurozioside I_a, 15029
- C₄₄H₇₈O₂**
 Campesteryl palmitate, 3044
- C₄₄H₇₈O₅**
 34-Hydroxytetracontanylferulate, 10760
- C₄₄H₇₈O₂₆**
 Pharbitic acid C, 17043
- C₄₄H₈₃NO₉**
 Cerebroside 1, 3419
 1-*O*-(β-*D*-Glucopyranosyl)-(2*S*,3*R*,4*E*,8*E*)-2-[(2*R*)-2'-hydroxynonadecanoylamino]-9-methyl-4,8-octadecadiene-1,3-diol, 8674
- C₄₄H₈₇NO₄**
 Spongiamine B, 20227
- C₄₄H₈₈O₂**

- Hexacosyl stearate, 9484
- C₄₅H₂₂O₁₉**
Pratioside A, 17768
- C₄₅H₃₄O₁₈**
Epicatechin-(2 β →O→7,4 β →6)-epicatechin-(2 β →O→7,4 β →8)-epicatechin, 6862
- C₄₅H₃₆O₁₈**
Aesculitannin B, 666
Cinnamtannin B₁, 3725
Epicatechin-(2 β →O→7,4 β →6)-[epicatechin-(4 β →8)]-catechin, 6860
- C₄₅H₃₆O₂₂**
Oolonghomobisflavan A, 16124
Oolonghomobisflavan B, 16125
- C₄₅H₃₈O₁₃**
Caloflavan A, 2986
Caloflavan B, 2987
- C₄₅H₃₈O₁₈**
Arecatannin A₁, 1655
Procyanidin C₁, 17893
Robinetinidol-(4 α →8)-catechin-(6→4 α)-robinetinidol, 18858
- C₄₅H₄₂O₁₀**
Licoagrone, 12757
- C₄₅H₄₄O₉**
Licoagrodin, 12755
- C₄₅H₄₄O₁₁**
Kuwanon H, 12386
Moracenin C, 14951
- C₄₅H₄₄O₁₂**
Sanggenon E, 19260
Sanggenon P, 19271
- C₄₅H₄₄O₁₆**
Epioritin-(4 β →6)-epioritin-(4 β →6)-epioritin-4 α -ol, 6982
Epioritin-(4 β →6)-oritin-(4 α →6)-epioritin-4 α -ol, 6986
Oritin-(4 β →6)-oritin-(4 α →6)-epioritin-4 α -ol, 16197
- C₄₅H₄₆O₁₁**
Sanggenol M, 19254
- C₄₅H₄₇NO₁₃**
10-Deacetyl-10-oxo-7-epitaxol, 4765
- C₄₅H₄₈N₂O₁₉**
Hyponine E, 10907
- C₄₅H₄₈O₁₃**
7-Deacetyl-7-benzoyltaxchinin I, 4733
7-Deacetyltaxayuntin D, 4779
- C₄₅H₄₈O₂₁**
Smiglaside E, 20024
- C₄₅H₄₉NO₁₃**
10-Deacetyltaxol, 4783
- C₄₅H₄₉N₃O₁₀**
- Milliamine A, 14859
- C₄₅H₅₀O₁₉**
Mangicrocin, 13480
- C₄₅H₅₁NO₂₀**
Wilformine A, 22686
- C₄₅H₅₂N₂O₁₀**
Thalmineline, 21265
- C₄₅H₅₂O₁₃**
Rediocide F, 18566
- C₄₅H₅₂O₂₃**
1,2,2'-Tri-*O-E*-sinapoyl- β -gentiobiose, 22036
1,2,6'-Tri-*O-E*-sinapoyl- β -gentiobiose, 22037
- C₄₅H₅₂O₂₄**
4',5-Dihydroxy-7-methoxyflavonol 3-*O*-[6-*O*-(*E*)-3,5-dimethoxy-4-hydroxycinnamoyl- β -*D*-glucopyranosyl]-(1→2)-*O*-[α -*L*-rhamnopyranosyl-(1→6)]- β -*D*-glucopyranoside, 5982
- C₄₅H₅₃NO₁₄**
Cephalomannine, 3402
2-Debenzoyl-2-tigloyltaxol, 4813
7-Epicephalomannine, 6868
Taxol B, 20812
- C₄₅H₅₅NO₁₄**
N-Debenzoyl-*N*-(2-methylbutyryl)taxol, 4807
Taxoline, 20815
- C₄₅H₅₆N₈O₈**
Microtoenin B, 14848
- C₄₅H₅₆O₂₃**
Chaohuoside A, 3480
- C₄₅H₅₆O₂₅**
Tris-[4-(β -*D*-glucopyranosyloxy)benzyl]citrate, 22034
- C₄₅H₅₇N₃O₉**
Beauvericin, 2188
- C₄₅H₆₀O₂₃**
Syringylglycerol- β -syringaresinol ether-4",4'''-di-*O*- β -*D*-glucopyranoside, 20573
- C₄₅H₆₂N₈O₉**
Psammosilenin B, 18015
- C₄₅H₆₂O₄**
6-Geranylgeranyl 6'-methyl-(9*E*)-6,6'-diapocarten-6,6'-dioate, 8318
6-Geranylgeranyl 6'-methyl-(9*Z*)-6,6'-diapocarten-6,6'-dioate, 8319
- C₄₅H₆₂O₁₆**
Vernoguinoside, 22409
- C₄₅H₆₈O₁₈**
Fargoside C, 7725
- C₄₅H₆₉N₉O₁₀S₂**
Cherimolacyclopeptide F, 3515
- C₄₅H₆₉O₁₃**
(22*S*)-Cholest-5-ene-3 β ,11 α ,16 β ,22-tetrol 16-*O*-{2-*O*-acetyl-3-*O*-(3,4,5-trimethoxybenzoyl)- α -*L*-rhamnopyranoside}, 3581
- C₄₅H₇₀O₁₄**
Cynatoside B, 4568
- C₄₅H₇₀O₁₆**
Malonylsaikosaponin A, 13448
Malonylsaikosaponin D, 13449
- C₄₅H₇₀O₁₇**
Brownioside, 2658
- C₄₅H₇₀O₁₈**
Saundersioside C, 19408
- C₄₅H₇₀O₁₉**
1 β ,2 α -Dihydroxyspirosta-5,25(27)-dien-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[β -*D*-glucopyranosyl-(1→4)]- β -*D*-galactopyranoside, 6125
Polygonatoside A, 17643
Pregna-5,16-dien-3 β -ol-20-one-3 β -*O*- α -*L*-rhamnopyranosyl (1→2)-[α -*L*-rhamnopyranosyl (1→4)- α -*L*-rhamnopyranosyl (1→4)]- β -*D*-glucopyranoside-, 17783
- C₄₅H₇₀O₂₀**
Polygonatoside B, 17644
3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1→2)-*O*-[*O*- β -*D*-glucopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→3)]- β -*D*-glucopyranosyl)oxy]pregna-5,16-dien-20-one, 18719
Spongipregnoside C, 20232
- C₄₅H₇₂O₁₆**
Astragaloside I, 1936
Collettiside III, 3925
Desglucumosenin, 5251
Dioscin, 6437
Isoastragaloside I, 11242
Protohypoglucine A, 17977
- C₄₅H₇₂O₁₇**
3-*O*-[Bis- α -*L*-rhamnopyranosyl-(1→2 and 1→4)- β -*D*-glucopyranosyl]-22*R*,25*R*-spirost-5-ene-3 β ,20 α -diol, 2493
- C₄₅H₇₂O₁₇**
Collettiside IV, 3924
Deltonin, 5040
Gracillin, 8968
Graecunin G, 8970
(24*S*,25*R*)-24-Hydroxyspirost-5-en-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[α -*L*-rhamnopyranosyl-(1→3)]- β -*D*-glucopyranoside, 10726
Isonarthogenin-3-*O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[α -*L*-rhamnopyranosyl-(1→4)]- β -*D*-glucopyranoside, 11556
Mubenoside A, 15006
Pennogenin-3-*O*- α -*L*-rhamnopyranosyl(1→2)-[α -*L*-rhamnopyranosyl(1→4)]- β -*D*-glucopyranoside , 16814

- Polypodoside A, 17663
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl]-26-*O*-(β -*D*-glucopyranosyl)-(25*R*)-furosta-5,20-dien-3 β , 26-diol, 18711
 (25*S*)-Spirost-5-en-3 β -yl *O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranoside, 20221
 (25*R*)-Spirost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside, 20222
 Trigonella-glucoside A, 21661
 Zingiberoside A₃, 23005
- C₄₅H₇₂O₁₈**
 CTHD0233276-9, 4300
 26-*O*- β -*D*-Glucopyranosyl-3 β ,26-dihydroxy- Δ^5 -choleslen-16,22-dioxo-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 8610
 3 β -[(β -*D*-Glucopyranosyl)oxy]-17 α -hydroxy-16 β -[(*O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)-2-*O*-acetyl- α -*L*-arabinopyranosyl)oxy]cholest-5-en-22-one, 8699
 (23*S*,25*R*)-23-Hydroxyspirost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside, 10723
 (25*S*)-27-Hydroxyspirost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside, 10724
 Polygonatoside D, 17646
 Trilloside B, 21876
- C₄₅H₇₂O₁₉**
Agave cantala Substance 1, 724
 CTHD0233276-15, 4296
 26-*O*- β -*D*-Glucopyranosyl(25*R*,*S*)-5 α -furostane-12-one-20(22)-en-3 β ,26-diol-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 8634
 Hecogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 9254
 Isonarthogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 11555
 Terreside A, 21000
 Terrestrosin C, 21015
 Terrestrosin E, 21017
- C₄₅H₇₃NO₁₅**
 Solamargine, 20044
 β -Solamarine, 20047
 Solanidine-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranoside, 20057
 Solanidine 3-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)-[β -*D*-glucopyranosyl (1 \rightarrow 4)]- β -*D*-glucopyranoside, 20059
 Solanine, 20060
- C₄₅H₇₃NO₁₆**
 α -Solamarine, 20046
 Solasodine 3-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl (1 \rightarrow 4)]- β -*D*-glucopyranoside, 20067
 Solasonine, 20069
- C₄₅H₇₃NO₁₇**
 (25 ζ)-Solanid-5-en-3 β ,23 β -dihydroxy 3-*O*- β -*D*-glucopyranosyl (1 \rightarrow 2)- β -*D*-glucopyranosyl (1 \rightarrow 4)- β -*D*-galactopyranoside, 20054
- C₄₅H₇₄O**
 Mallopreol, 13426
- C₄₅H₇₄O₅**
 Plastoquinone C₄, 17519
- C₄₅H₇₄O₁₀**
 (2*S*)-1,2-Di-*O*-[(9*Z*,12*Z*,15*Z*)-octadeca-9,12,15-trienoyl]-3-*O*- β -*D*-galactopyranosyl glycerol, 6428
 Monogalactosyldiglyceride, 14924
- C₄₅H₇₄O₁₇**
 AS-1 B, 1831
 Asparanin B₁, 1869
 Asparanin B₇, 1875
 3-*O*-[Bis- α -*L*-rhamnopyranosyl-(1 \rightarrow 2 and 1 \rightarrow 4)- β -*D*-glucopyranosyl]-25*R*-furost-5-ene-3 β ,22 α ,26-triol, 2492
 Fenbaqia saponin, 7748
 Gurillin H, 9087
 Neotigogenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-galactopyranoside, 15465
 Osladin, 16251
 Sarsasapogenin 3-*O*-4^G-rhamnosyl-sophoroside, 19391
 Terrestrosin B, 21014
 Tubeimoside D, 22075
- C₄₅H₇₄O₁₈**
 Anemarsaponin B, 1173
 Anemarsaponin C, 1174
 CTHD0233276-21, 4298
 Macrostemonoside F, 13331
 Neotigogenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside, 15464
 Terrestrosin A, 21013
 Tigogenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside, 21384
 Torvoside H, 21470
 Trigofenoside A, 21645
 Trigoneoside XIIa, 21677
- Trigoneoside XIIb, 21678
 Tubeimoside E, 22076
 Tuberoside A, 22079
 Xilingsaponin B, 22796
- C₄₅H₇₄O₁₉**
 Macrostemonoside L, 13334
 (25*R*,*S*)-5 α -Spirostane-2 α ,3 β -diol 3-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside], 20212
- C₄₅H₇₄O₂₀**
 26-*O*- β -*D*-Glucopyranosyl(25*R*)-5 α -furostane-12-one-3 β ,22 α ,26-triol-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside, 8633
 Macrostemonoside G, 13332
 Proampeloside Bf₁, 17864
- C₄₅H₇₅NO₉**
 1,2-Di-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-(6-amino-6-deoxy- α -*D*-glucosyl)-glycerol, 6427
- C₄₅H₇₅NO₁₇**
 (25 ζ)-Solanidan-3 β ,23 β -dihydroxy 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl (1 \rightarrow 4)- β -*D*-galactopyranoside, 20052
- C₄₅H₇₆O₅**
 Plastoquinone C₃, 17518
- C₄₅H₇₆O₁₃**
 Dregeoside B, 6599
- C₄₅H₇₆O₁₆**
 Lotoideside C, 13006
- C₄₅H₇₆O₁₇**
 Oleifolioside A, 16067
- C₄₅H₇₆O₁₈**
 Abutiloside F, 40
 Asp-IV, 1905
 Asp-V, 1906
 Trigoneoside IIIa, 21669
 Trigoneoside IIIb, 21670
- C₄₅H₇₆O₁₉**
 (25*R*)-26-*O*- β -*D*-Glucopyranosyl-22-hydroxy-5 β -furostane-3 β ,26-diol 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-galactopyranoside, 8669
 (25*S*)-26-*O*- β -*D*-Glucopyranosyl-22-hydroxy-5 β -furostane-3 β ,26-diol 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-galactopyranoside, 8670
 Trigofenoside B, 21647
 Trigoneoside Xa, 21674
 Trigoneoside Xb, 21675
- C₄₅H₇₆O₂₀**
 26-*O*- β -*D*-Glucopyranosyl-(25*S*)-3 β ,5 β ,6 α ,22 ζ ,26-pentahydroxyl-5 β -furostane 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranoside, 8710
 Macrostemonoside J, 13333

- 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl 3 β ,5 β ,6 α ,16 β -tetrahydroxypregnane 16-(5-*O*- β -*D*-glucopyranosyl-4(*S*)-methyl-5-hydroxypentanoic acid) ester, 18720
- C₄₅H₇₈O₂**
24-Ethylcholesta-5,22-dien-3 β -ol palmitic acid ester, 7426
- C₄₅H₈₀O₂**
 β -Sitosteryl palmitate, 19998
- C₄₅H₈₂O₂₃**
1-*O*-[[α -*L*-Arabinopyranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl] hexadecanol, 1592
- C₄₅H₈₅O₁₂S⁻**
(2*S*)-1,2-Distearoyl-3-*O*-(6-sulpho- α -*D*-quinoxypyransyl)-glycerol, 6519
- C₄₅H₈₆O₆**
Trimyrustin, 21980
- C₄₅H₉₁NO₅**
Sphingolipid Lipids01-175, 20153
- C₄₆H₃₆O₃₁**
Putranjivain A, 18228
- C₄₆H₄₄O₁₃**
Lactucain C, 12443
- C₄₆H₄₈N₂O₄**
Bisisomahanine, 2479
- C₄₆H₄₈N₂O₈**
Michellamine B, 14831
- C₄₆H₅₀N₄O₈**
N1,N5,N10,N14-Tetrakis[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane, 21176
- C₄₆H₅₀O₂₂**
Smiglaside B, 20021
- C₄₆H₅₄N₄O₁₀**
Catharine, 3322
- C₄₆H₅₄O₁₃**
Rediocide C, 18564
Rediocide G, 18567
- C₄₆H₅₅NO₁₅**
5 α -*O*-(3'-Dimethylamino-3'-phenylpropionyl) taxinine M, 6315
- C₄₆H₅₆N₄O₉**
Catharanthamine, 3320
Leurosine, 12734
Vincathicine, 22491
- C₄₆H₅₆N₄O₁₀**
Vinamidine, 22486
Vincristine, 22497
- C₄₆H₅₇NO₁₄**
7-Epitaxuyunnanine A, 7028
Taxol C, 20813
- Taxuspine N, 20861
- C₄₆H₅₈N₄O₈**
Isoleurosine, 11489
- C₄₆H₅₈N₄O₉**
Leurosidine, 12733
Vinblastine, 22487
- C₄₆H₅₈N₄O₁₀**
Leurocolumbine, 12732
Vincadioline, 22488
- C₄₆H₅₈N₆O₁₄**
Rubia akane RA-XII, 18990
- C₄₆H₅₈O₂₅**
Isooleoacteoside, 11575
- C₄₆H₆₄O₁₅**
Saundersioside E, 19410
- C₄₆H₆₄O₂₆**
Tangshenoside IV, 20675
- C₄₆H₆₅N₁₅O₁₂S₂**
Vasopressin, 22353
- C₄₆H₆₆O₁₅**
Saundersioside G, 19412
- C₄₆H₆₈O₄**
Formosadimer B, 7887
- C₄₆H₆₉NO₁₁**
Saponaceol A, 19324
- C₄₆H₆₉NO₁₂**
Saponaceol B, 19325
- C₄₆H₇₀O₁₇**
Eupteleasaponin V, 7626
- C₄₆H₇₀O₁₈**
Cynascyroside E, 4567
- C₄₆H₇₀O₁₉**
Spinacoside C, 20165
- C₄₆H₇₂O₁₅**
3",6"-*O*,*O*-diacetylsaikosaponin b₂, 5346
1 α ,3 β -Hydroxyimberbic acid-23- α -*L*-[3,4-diacetyl-rhamnopyranosyl]-29-*O*- α -rhamnopyranoside, 10228
- C₄₆H₇₂O₁₇**
3-*O*- β -*D*-Apiofuranosyl-(1 \rightarrow 4)-[α -*L*-arabinopyranosyl-(1 \rightarrow 2)] β -*D*-glucuronopyranosyl oleanolic acid, 1503
2 α ,3 β -Dihydroxyurs-12,20(30)-dien-28-oic acid 3-*O*-{*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]/ β -*D*-glucopyranoside}, 6172
Nudicaucin A, 15858
Yemuoside YM₁₁, 22890
- C₄₆H₇₂O₁₉**
Abutiloside O, 48
- C₄₆H₇₂O₂₀**
Withanoside VIII, 22711
- C₄₆H₇₃O₂₀S⁻**
3-*O*-[6-*O*-Sulfonyl- β -*D*-glucopyranosyl-(1 \rightarrow 3)] [α -*L*-arabinopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl-pseudojubilogenin, 20471
- C₄₆H₇₄O₂**
Stigmasteryl-3-*O*-scleropyrate, 20377
- C₄₆H₇₄O₁₀**
Longiside A, 12978
- C₄₆H₇₄O₁₄**
Taibaienoside IV, 20616
- C₄₆H₇₄O₁₅**
Huzhangoside A, 9692
Oleanolic acid 3-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside, 16060
Oleanolic acid 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside, 16063
3 β -[(*O*- β -*D*-Ribopyranosyl-(1 \rightarrow 3))-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl]oxy]olean-12-en-28-oic acid, 18835
- C₄₆H₇₄O₁₆**
Araloside D, 1611
Pometia ridleyi saponin 6, 17692
Prosapogenin CP₅, 17945
Prosapogenin CP₆, 17946
Sapindoside B, 19317
Scabioside D, 19444
- C₄₆H₇₄O₁₇**
Bacopasaponin C, 2082
Brisbagenin 1-*O*-[*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 3)]-4-*O*-acetyl- α -*L*-arabinopyranoside], 2614
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)] [α -*L*-arabinopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl-pseudojubilogenin, 8604
Isolineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 11502
Jujubogenin 3-*O*- α -*L*-arabinofuranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranoside, 11908
Lineolon-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 12885
- C₄₆H₇₄O₁₈**
Deacetylmetaplexigenin 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 4797
Fargoside B, 7724
15- β -Hydroxylineolon 3-*O*- β -*D*-oleandropyra-

- nosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranoside, 10332
- (25*R*,26*R*)-26-Methoxyspirost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[β -*D*-glucopyranosyl-(1→6)]-*D*-glucopyranoside, 14093
- C₄₆H₇₄O₁₉**
(25*R*,26*R*)-17 α -Hydroxy-26-methoxyspirost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[β -*D*-glucopyranosyl-(1→6)]- β -*D*-glucopyranoside, 10458
- C₄₆H₇₄O₂₀S**
Bacopaside I, 2087
- C₄₆H₇₅NO₁₇**
Abutiloside H, 41
- C₄₆H₇₆O₂**
 β -Sitosteryl-3-*O*-scleropyrate, 19999
- C₄₆H₇₆O₁₆**
Gylongiposide I, 9098
- C₄₆H₇₆O₁₇**
Astrasierversianin XV, 1949
CTHD0233276-2, 4297
Gypenoside XXVI, 9140
- C₄₆H₇₆O₁₈**
Marsdekoiside C, 13575
Trigofoenoside A₁, 21646
- C₄₆H₇₆O₁₉**
Polyfurososide PO₈, 17627
- C₄₆H₇₆O₂₀**
Polyfurososide PO₆, 17625
Wattoside C, 22650
- C₄₆H₇₇NO₁₇**
Abutiloside B, 39
- C₄₆H₇₈O₂**
9(11),12-Ursadien-3 β -ol 3-*O*-palmitate, 22261
- C₄₆H₇₈O₄**
5 α ,8 α -Epidioxyergosta-6,22-dien-3 β -yl stearate, 6901
- C₄₆H₇₈O₁₈**
Myrioside A, 15198
Oleifolioside B, 16068
3 β ,12 β ,23*S*,24*R*-Tetrahydroxy-20*S*,25-epoxydammarane 3-*O*-[β -*D*-xylopyranosyl(1→2)][β -*D*-xylopyranosyl-(1→6)]- β -*D*-glucopyranoside, 21104
- C₄₆H₇₈O₁₉**
Anemarsaponin E, 1175
Trigofoenoside B₁, 21648
- C₄₆H₈₀O₂**
 α -Amyrin palmitate, 1121
 β -Amyrin palmitate, 1122
Lupeol palmitate, 13099
Taraxasteryl palmitate, 20708
- C₄₆H₈₀O₃**
Arnidiol 3-*O*-palmitate, 1752
Betulin 3-*O*-palmitate, 2335
Erythrodiol 3-*O*-palmitate, 7339
16 β -Hydroxylupeol 3-*O*-palmitate, 10348
Maniladiol 3-*O*-palmitate, 13499
12-Ursene-3 β , 11 α -diol 3-*O*-palmitate, 22267
Uvaol 3-*O*-palmitate, 22289
- C₄₆H₈₀O₆**
34-*O*-Acetyltetratriacontanylferulate, 523
- C₄₆H₉₀O₂**
Myricyl hypogaeate, 15190
- C₄₆H₉₂O₂**
Myricyl palmitate, 15191
- C₄₇H₃₄O₃₂**
Elaeocarpusin, 6730
Helioscopin A, 9307
- C₄₇H₃₆O₃₂**
Helioscopin B, 9308
- C₄₇H₄₄O₂₂**
Agastachin, 708
- C₄₇H₄₈O₁₉**
Aloeresin I, 978
- C₄₇H₅₀N₂O₁₈**
Hyponine D, 10906
- C₄₇H₅₀O₁₄**
7-Deacetyl-7-benzoyltaxayuntin C, 4732
Taxayuntin D, 20762
- C₄₇H₅₀O₂₂**
Smiglaside D, 20023
- C₄₇H₅₁NO₁₄**
7-Epitaxol, 7027
Taxol, 20811
- C₄₇H₅₁NO₁₇**
Euophelline, 7536
- C₄₇H₅₂O₂₃**
Senburiside III, 19700
- C₄₇H₅₃NO₁₄**
9-Deoxo-9 α -hydroxytaxol, 5145
Yunnanxamine, 22950
- C₄₇H₅₄O₂₅**
Kaempferol-3-*O*-{[β -*D*-xylopyranosyl(1→3)- α -*L*-rhamnopyranosyl(1→6)][α -*L*-rhamnopyranosyl(1→2)]- β -*D*-3-*trans-p*-coumaroylgalactopyranoside, 12101
Kaempferol-3-*O*-{[β -*D*-xylopyranosyl(1→3)- α -*L*-rhamnopyranosyl(1→6)][α -*L*-rhamnopyranosyl(1→2)]- β -*D*-4-*trans-p*-coumaroylgalactopyranoside, 12102
- C₄₇H₅₇NO₁₅**
10-(β -Hydroxybutyryl)-10-deacetylcephalomanine, 9866
- C₄₇H₅₉NO₁₄**
N-Methyltaxol C, 14739
Taxuspinanane A, 20841
- C₄₇H₅₉NO₁₇**
7-(β -xylosyl)-10-deacetyltaxol D, 22849
- C₄₇H₆₆N₈O₉**
Microtoenin A, 14847
- C₄₇H₆₆O₁₅**
Saundersioside F, 19411
- C₄₇H₆₈O₁₅**
OSW-1, 16265
Saundersioside H, 19413
- C₄₇H₆₈O₂₁**
Basellasaponin B, 2158
- C₄₇H₆₈O₂₂**
Basellasaponin C, 2159
Basellasaponin D, 2160
- C₄₇H₇₀O₂₀**
Betavulgaroside I, 2323
Bidentatoside I, 2363
- C₄₇H₇₀O₂₁**
Basellasaponin A, 2157
- C₄₇H₇₀O₂₃**
Deoxytrillenoside A, 5217
- C₄₇H₇₀O₂₄**
Trillenoside A, 21873
- C₄₇H₇₂O₁₆**
Inflasaponin I, 11038
Methyl-*n*-butyl-uralsaponin A esters, 14185
- C₄₇H₇₂O₁₇**
Kudinoside D, 12302
- C₄₇H₇₂O₁₈**
Acanjaposide B, 65
Eupteleasaponin VI, 7628
Methyl oleanate-(3)-[α -*L*-arabinofuranosyl-(1→4)]-[β -*D*-galactopyranosyl-(1→2)]-methyl-(β -*D*-glucopyranoside) uronate], 14633
- C₄₇H₇₂O₁₉**
Acanjaposide A, 64
3-*O*- β -*D*-Galactopyranosyl-(1→2)-[β -*D*-xylopyranosyl(1→3)]- β -*D*-glucuronopyranosyl-gypsogenin, 8074
Oldhamianoside, 16026
- C₄₇H₇₃NO₁₀**
Lipohypaconitine, 12899
- C₄₇H₇₄O₁₇**
Acetyl astragaloside I, 326
Ardisimamilloside H, 1642
3 β -[(*O*- β -*D*-Glucuronopyranosyl-(1→3)-*O*-[α -*L*-rhamnopyranosyl-(1→2)]- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid, 8766
Periandrulcin B, 16919
3-*O*- α -*L*-Rhamnopyranosyl-(1→4)-[α -*L*-arabinopyranosyl-(1→2)]- β -*D*-glucuronopyranosyl

- oleanolic acid, 18687
Trojanoside I, 22046
- C₄₇H₇₄O₁₈**
3-*O*-[β -*D*-Apiofuranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl]oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester, 1515
Aquilegioside I, 1550
Araloside A, 1608
Chikusetsu saponin Ib, 3521
Chikusetsusaponin IV, 3523
Kudinoside A, 12299
Kudinoside F, 12304
Momordin IIc, 14910
Purpurea glycoside A, 18216
Purpurea glycoside B, 18217
Saikosaponin S₁, 19161
Stipuleanoside R₁, 20383
Symplocos glomerata saponin 1, 20529
Symplocos glomerata saponin 5, 20533
- C₄₇H₇₄O₁₉**
Acanjaposide C, 66
Aquilegioside A, 1542
Aquilegioside J, 1551
Hydrocotyloside I, 9710
Kudinoside B, 12300
Myrioside D, 15201
Norarjunolic acid-28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 15712
2 α ,3 β ,23-Trihydroxy-30-norolean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 21814
Yunganoside B₁, 22941
- C₄₇H₇₄O₂₀**
3 β -*O*-(β -Glucopyranosyl-(1 \rightarrow 3)- β -xylopyranosyl)-16 α -hydroxyolean-12-ene-28,30-dioic acid 28-*O*-(β -galactopyranosyl) ester, 8749
- C₄₇H₇₆O₁₆**
3-*O*- α -*L*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-oleanic acid, 8719
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl oleanolic acid, 8726
Obtusilobinin, 15907
Oleanolic acid-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranoside, 16059
Patrinioside C₁, 16722
Raddeanin A, 18516
Raddeanin E, 18520
3 β -*D*-*O*-(α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)-lup-20(29)-ene-28-*O*- β -*D*-glucopyranosyl ester, 18691
3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)]-[β -*D*-glucopyranosyl (1 \rightarrow 3)]- α -*L*-arabinopyranosyl oleanolic acid, 18709
3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)]-[β -*D*-glucopyranosyl (1 \rightarrow 3)]- α -*L*-arabinopyranosyl ursolic acid, 18710
Rotundifolioside I, 18952
Rotundioside G, 18957
- C₄₇H₇₆O₁₇**
3-*O*- α -*L*-Arabinopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 1577
Astragaloside VIII, 1943
Cussosaponin A, 4429
Cussosaponin D, 4432
3 β -*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-23-hydroxyolean-12-en-28-oic acid, 8067
3 β -*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- α -*L*-arabinopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl ester, 8606
3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid, 8640
Hederagenin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranoside, 9270
Inermiside I, 11035
Isolineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 11501
Kalopanax saponin H, 12119
Latifolioside A, 12547
Latifolioside B, 12548
Latifolioside D, 12550
Lineolon-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 12884
Macranthoside A, 13302
Nudicaucin B, 15859
Oleanolic acid 3-*O*- β -*D*-xylopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranoside, 16062
Pometia ridleyi saponin 2, 17689
Pometia ridleyi saponin 7, 17693
Randiasaponin IV, 18538
Randiasaponin V, 18539
Rotundifolioside A, 18944
Rotundifolioside D, 18947
Rotundifolioside E, 18948
Rotundifolioside H, 18951
Saikosaponin K, 19150
Saponin E₇, 19344
Tomentoside A, 21441
Tomentoside B, 21442
2''-*O*- β -*D*-Xylopyranosylsaikosaponin b₂, 22840
Zizyphussaponin I, 23016
Zizyphussaponin II, 23017
- C₄₇H₇₆O₁₈**
Akebia saponin D, 818
Bacoside A₃, 2094
Cyclaminorin, 4458
Durupcoside C, 6641
3 β -*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)]-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl echinocystic acid, 8638
Hederagenin-3-*O*- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 9262
15- β -Hydroxyisolineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 10249
15- β -Hydroxylineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 10331
Ilekudinoside E, 10975
Illexside II, 10985
Ikerissaponin A, 11799
Pulsatiloside A, 18195
Randiasaponin III, 18537
Rotundifolioside G, 18950
- C₄₇H₇₆O₁₉**
20*S*,22*R*,23*S*,24*R*-16 β ,23,22,25-Diepoxycholeartane-3 β ,23,24-triol 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside, 5489
Saikosaponin V₁, 19165
Scorzonerose B, 19564
- C₄₇H₇₆O₂₀**
Platycoside F, 17540
- C₄₇H₇₈O₁₇**
3 β ,23-Dihydroxy-lup-20(29)-ene-28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 5952
Rotundifolioside B, 18945
- C₄₇H₇₈O₁₈**
Asernestioside A, 1851
Astrasieversianin XIV, 1948
Gypenoside LII, 9157
- C₄₇H₇₈O₁₉**
Astragaloside V, 1940

- Astragaloside VI, 1941
 Astragaloside VII, 1942
 Trojanoside K, 22048
C₄₇H₇₈O₂₀
 Volubiloside B, 22612
C₄₇H₈₀O₁₇
 Chikusetsusaponin III, 3522
 3β-*O*-β-*D*-Glucopyranosyl-20-*O*-[α-*L*-arabino-
 pyranosyl(1→2)-β-*D*-glucopyranosyl]3β,12β,
 20(*S*)-trihydroxydammar-24-ene, 8605
 Gypenoside IX, 9130
 Gypenoside XLV, 9154
 Gypenoside LV, 9160
 Lotoideside B, 13005
 Notoginsenoside Fe, 15824
C₄₇H₈₀O₁₈
 Cyclofoetoside B, 4492
 Gypenoside XLIV, 9153
 Gypenoside XLVI, 9155
 Gypenoside LVII, 9162
 Gypenoside LXIV, 9168
 Notoginsenoside R₁, 15836
C₄₇H₈₀O₁₉
 Notoginsenoside H, 15826
 3β,12β,23*S*,24*R*-Tetrahydroxy-20*S*,25-epoxy-
 dammarane 3-*O*-[β-*D*-glucopyranosyl(1→2)]
 [β-*D*-xylopyranosyl-(1→6)]-β-*D*-glucopyrano-
 side, 21102
 Vina-ginsenoside R₆, 22485
 Yesaninoside C, 22895
C₄₇H₈₈O₁₅
 1-*O*-β-*D*-Galactosyl (6→1)-α-*D*-galactosyl-2,3-
O-dihexadecanoyl-glycerol, 8077
C₄₈H₂₈O₃₀
 Punicacortin C, 18202
 Punicalagin, 18204
 Terchebulin, 20970
C₄₈H₃₀O₃₀
 Cornusiin B, 4064
 Terflavin A, 20974
C₄₈H₃₂O₃₁
 Agrimononic acid A, 757
 Agrimononic acid B, 758
 Glansrin A, 8504
 Rugosin C, 19056
 Sanguiin H₂, 19274
C₄₈H₃₂O₃₂
 Mallotusinic acid, 13438
C₄₈H₃₄O₃₁
 Rugosin A, 19054
C₄₈H₃₄O₃₃
 Repandusinic acid B, 18625
C₄₈H₄₂O₁₄
 Cotyleloside A, 4131
 Cotyleloside B, 4132
C₄₈H₄₈O₉
 3,12,21-Trihydroxy-1,10,19-tri(4-hydroxy-
 phenyl)-5,14,23-trimethoxy[3.3.3]metacyclo-
 phane, 21852
C₄₈H₄₈O₂₅
 Amentoflavone-7,4',4'''-tri-*O*-β-*D*-glucopyrano-
 side, 1033
C₄₈H₅₁NO₁₈
 Euoverrine A, 7537
C₄₈H₅₂O₂₃
 Smiglaside A, 20020
C₄₈H₅₃NO₁₄
N-Methylpaclitaxel, 14651
C₄₈H₅₆O₂₆
 Kaempferol-3-*O*-{[β-*D*-xylopyranosyl(1→3)-α-
L-rhamnopyranosyl(1→6)][α-*L*-rhamnopyra-
 nosyl(1→2)]}-β-*D*-3-*trans*-feruloylgalacto-
 pyranoside, 12103
 Kaempferol-3-*O*-{[β-*D*-xylopyranosyl(1→3)-α-
L-rhamnopyranosyl(1→6)][α-*L*-rhamnopyra-
 nosyl(1→2)]}-β-*D*-4-*trans*-feruloylgalacto-
 pyranoside, 12104
C₄₈H₅₆O₂₉
 Pisumflavonoid II, 17494
C₄₈H₅₇O₂₈⁺
 Pigment 26, 17359
C₄₈H₅₈N₆O₁₅
 Rubia akane RA-XIV, 18992
C₄₈H₆₀N₆O₁₅
 Rubia akane RA-XV, 18993
C₄₈H₆₀N₆O₁₆
 Rubia akane RA-XIII, 18991
 Rubia akane RA-XVI, 18994
C₄₈H₆₀O₉
 Hibicusin, 9535
C₄₈H₆₀O₁₀
 Myriceric acid C, 15169
C₄₈H₆₄O₁₆
 Maoecrystal M, 13534
C₄₈H₆₉NO₁₂
 Saponaceol C, 19326
C₄₈H₇₀O₅
 Formosadimer C, 7888
C₄₈H₇₀O₁₇
 3β-[(α-*L*-Arabinopyranosyl)oxy]-19α-hydroxy-
 urs-12-en-28-oic acid 28-(6-*O*-galloyl-β-*D*-
 glucopyranosyl)ester, 1585
C₄₈H₇₂O₁₈
 Atratoside C, 1995
 Eupteleasaponin V acetate, 7627
C₄₈H₇₂O₁₉
 Licoricesaponin F₃, 12788
 Stauntoside A, 20276
C₄₈H₇₂O₂₁
 Licoricesaponin A₃, 12783
C₄₈H₇₄O₁₆
 Ethyl-*n*-butyl-uralsaponin A esters, 7422
C₄₈H₇₄O₁₈
 Atratoside B, 1994
C₄₈H₇₄O₁₉
 Chiisanoside, 3520
 (1*R*)-1,11-α-Dihydroxy-3,4-seco-lupa-4(23),
 20(29)-diene-3,28-dioic acid 3,11-lactone
 28-*O*-α-*L*-rhamnopyranosyl-(1→4)-β-*D*-gluco-
 pyranosyl(1→6)-β-*D*-glucopyranoside, 6115
 Papyrioside L-IIc, 16646
 Yunganoside D₁, 22943
C₄₈H₇₄O₂₀
 Abrisaponin I, 22
 Acanjaposide I, 72
 3-*O*-β-*D*-Galactopyranosyl(1→2)-[β-*D*-xylo-
 pyranosyl(1→3)]-β-*D*-6-*O*-methylglucurono-
 pyranosyl-quillaic acid, 8075
 Sinocrassuloside IV, 19939
C₄₈H₇₅O₂₃^{S-}
 Sandrosaponin III, 19246
C₄₈H₇₅O₂₄^{S-}
 Sandrosaponin IV, 19247
C₄₈H₇₆O₁₆
 Oleonic acid 3-*O*-(4-*O*-acetyl-β-*D*-xylopyra-
 nosyl)-(1→3)-α-*L*-rhamnopyranosyl-(1→2)-
 α-*L*-arabinopyranoside, 16051
C₄₈H₇₆O₁₇
 Hederagenin 3-*O*-(2-*O*-acetyl-β-*D*-xylopyra-
 nosyl)-(1→3)-α-*L*-rhamnopyranosyl-(1→2)-
 α-*L*-arabinopyranoside, 9261
 Mukurozisaponin E₁, 15033
C₄₈H₇₆O₁₈
 12-*O*-Acetylneolon-3-*O*-β-*D*-oleandropyranos-
 yl-(1→4)-β-*D*-digitoxopyranosyl-(1→4)-β-*D*-
 digitoxopyranosyl-(1→4)-β-*D*-digitoxopyra-
 noside, 453
 Achyranthes saponin A, 539
 Achyranthes saponin C, 541
 Colubrin, 3929
 Olaxoside, 16025
 Periandrulcin C, 16920
 3-*O*-α-*L*-Rhamnopyranosyl-(1→4)-[β-*D*-galac-
 topyranosyl-(1→2)]-β-*D*-glucuronopyranosyl
 oleonic acid, 18704
 3-*O*-[α-*L*-Rhamnopyranosyl (1→2)-β-*D*-galacto-
 pyranosyl (1→2)-β-*D*-glucuronopyranosyl]
 soyasapogenol E, 18706
 3-*O*-[α-*L*-Rhamnopyranosyl-(1→3)-β-*D*-glucu-

- ronopyranosyl]-28-*O*-(β -*D*-glucopyranosyl)-3 β -hydroxyolean-12-en-28-oate, 18722
- 3-*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- β -*D*-xylopyranosyl(1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-3 β ,22 β ,24-trihydroxy-11-oxo-olean-12-ene, 18738
- C₄₈H₇₆O₁₉**
- Acanjaposide G, 70
- Acanjaposide H, 71
- Acankoreoside D, 74
- Calendula officinalis* Glycoside B, 2970
- Calendula officinalis* Glycoside C, 2971
- Cincholic acid 3 β -*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranosyl-28-*O*- β -*D*-glucopyranosyl ester, 3679
- Cirenshenoside V, 3740
- Ginsenoside Ro, 8445
- Hemsgiganoside B, 9354
- Hydrocotyloside II, 9711
- Metaplexigenin-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 13817
- Papyrioside L-IId, 16647
- Phytolaccoside F, 17271
- Quinovic acid 3 β -*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranosyl-(27-1)- β -*D*-glucopyranosyl ester, 18432
- Quinovic acid 3 β -*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranosyl-(28-1)- β -*D*-glucopyranosyl ester, 18433
- Quinovic acid 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranoside 27-*O*- β -*D*-glucopyranosyl ester, 18436
- Sandosaponin A, 19238
- Sandosaponin B, 19239
- Saponin 6, 19338
- Yunganoside A₁, 22940
- Yunganoside C₁, 22942
- C₄₈H₇₆O₂₀**
- Acanjaposide D, 67
- Acanjaposide E, 68
- Acanjaposide F, 69
- Acankoreoside E, 75
- Azukisaponin IV, 2068
- Calendasaponin B, 2966
- Dianoside G, 5364
- Palustroside III, 16581
- Sophoraflavoside II, 20090
- 3 β ,16 α ,23,28-Tetrahydroxyolean-11,13(18)-dien-30-oic acid 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside, 21141
- C₄₈H₇₆O₂₁**
- Ageratoside B₁, 733
- Dianoside D, 5361
- Esculentoside H, 7374
- Medicagenic acid 3-*O*-triglucoside, 13635
- Sinocrassuloside I, 19936
- C₄₈H₇₆O₂₃**
- Lucilianoside C, 13058
- C₄₈H₇₇NaO₂₂S**
- 2 α ,23-Dihydroxy-3 β -sulfoxyolean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester sodium salt, 6139
- C₄₈H₇₇O₂₂S⁻**
- Sandrosaponin II, 19245
- Sandrosaponin V, 19248
- Sandrosaponin VI, 19249
- C₄₈H₇₈O₉**
- Glabrescin, 8492
- C₄₈H₇₈O₁₆**
- Rotundifolioside J, 18953
- Rotundioside F, 18956
- C₄₈H₇₈O₁₇**
- Astragaloside VIII methylester, 1944
- 3-Epibetulinic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 6837
- 3-Epi-oleanolic acid-28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 6981
- Isolineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 11500
- Kaikasaponin II, 12112
- Kaikasaponin III, 12113
- Lineolon-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 12883
- Rotundifolioside F, 18949
- Saikosaponin BK₁, 19146
- Saikosaponin C, 19147
- 3 β ,16 α ,28-Trihydroxyolean-11,13(18)-dien-3 β -yl- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside, 21821
- C₄₈H₇₈O₁₈**
- Arvenoside A, 1828
- Astrasierversianin IX, 1947
- Azukisaponin V, 2069
- Carnosifloside III, 3203
- 3-*O*- β -*D*-Glucopyranosyl betulinic acid-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 8611
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester, 8647
- 2"-*O*- β -*D*-glucopyranosyl saikosaponin b₂, 8730
- Hederagenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 9273
- HN Saponin H, 9573
- Jujubasaponin IV, 11904
- Jujubasaponin V, 11905
- Latifolioside J, 12556
- Lemmatoxin, 12621
- Oleanoglycotoxin A, 16044
- Pulsatilloside C, 18194
- Pulsatilloside C, 18197
- Saikosaponin N, 19153
- Saikosaponin S, 19160
- Saponin E₈, 19345
- Soyasaponin I, 20127
- 3 β ,16 α ,28,30-Tetrahydroxyolean-11,13(18)-dien-3 β -yl- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside, 21140
- 3 β ,16 β ,23-Trihydroxy-13,28-epoxyolean-11-en-3 β -yl-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside, 21728
- Udosaponin B, 22173
- C₄₈H₇₈O₁₉**
- Asiaticoside, 1854
- Bourmeioside B, 2573
- Centellasaponin C, 3396
- Centellasaponin D, 3397
- Clinodioside A, 3845
- Congmuyanoside B, 3977
- Davuricoside J, 4700
- Ecliptasaponin B, 6706
- 3 β ,16 α ,23,28,30-Pentahydroxyolean-11,13(18)-diene 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside, 16857
- Saikosaponin P, 19155
- Saikosaponin Q, 19156
- Saikosaponin Q₁, 19157
- Saikosaponin Q₂, 19158
- Saikosaponin R, 19159
- Spartium junceum* saponin, 19332
- Sceffoleoside A, 19460
- Soyasaponin A₃, 20123
- Soyasaponin V, 20129
- 2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester,

- 21825
- C₄₈H₇₈O₂₀**
 Aquilegioside H, 1549
 Asiaticoside B, 1855
 Madecassoside, 13338
 Stelmatotriterpenoside E, 20287
 Stelmatotriterpenoside F, 20288
 Stelmatotriterpenoside G, 20289
 Volubiloside C, 22613
- C₄₈H₇₈O₂₂**
 Aesculuside B, 667
- C₄₈H₇₈O₂₂S**
 Eclalbasaponin XII, 6703
- C₄₈H₈₀O₂**
 α -Amyrin linoleate, 1117
 β -Amyrin linoleate, 1118
- C₄₈H₈₀O₁₆**
 Telosmoside A₆, 20917
- C₄₈H₈₀O₁₇**
 3 β -*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranosyl (2*S*,24*Z*)-cycloart-24-en-3 β ,22,26-triol 26-*O*- β -*D*-glucopyranoside, 8627
 Latifolioside I, 12555
 Rotundifolioside C, 18946
- C₄₈H₈₀O₁₈**
 Carnosifloside VI, 3204
 Hydroxysaikosaponin C, 10686
 Khekadaengoside N, 12219
 Saikosaponin 15, 19140
- C₄₈H₈₀O₁₉**
 23-*O*-Acetyl-3 β ,12 β ,23*S*,24*R*-tetrahydroxy-20*S*,25-epoxydammarane 3-*O*-[β -*D*-xylopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside, 522
 Ginsenoside III, 8417
 Justicioside B, 11984
 Notoginsenoside G, 15825
 11 α ,16 β ,23,28-Tetrahydroxyolean-12-en-3 β -yl-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside, 21142
- C₄₈H₈₀O₂₀**
 Volubiloside A, 22611
- C₄₈H₈₀O₂₁**
 Iridalglycoside 5a, 11134
 Iridalglycoside 6a, 11136
 Iridalglycoside 6b, 11137
- C₄₈H₈₁NO₁₇**
 Abutiloside J, 43
- C₄₈H₈₂O₂**
 Stigmasta-7,22,25-triene-3-nonadecanoic acid ester, 20358
- C₄₈H₈₂O₁₇**
 Gypenoside XI, 9131
- Gypenoside LXXIII, 9175
- C₄₈H₈₂O₁₈**
 Ginsenoside Rd, 8427
 Ginsenoside Re, 8428
 3-*O*-[β -*D*-Glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl]-20-*O*- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*)-trihydroxydammar-24-ene, 8646
 Gypenoside VIII, 9129
 Gypenoside XVII, 9134
 Gypenoside LXXII, 9174
 Khekadaengoside M, 12218
- C₄₈H₈₂O₁₉**
 20-Glucosylginsenoside Rf, 8755
 Gycomoside II, 9095
 Majoroside F₅, 13407
 Majoroside F₆, 13408
 Notoginsenoside M, 15831
 Notoginsenoside N, 15832
 Notoginsenoside R₃, 15838
 Notoginsenoside R₆, 15840
- C₄₈H₈₂O₂₀**
 Ginsenoside I, 8412
 Ginsenoside II, 8416
 Gycomoside IV, 9097
 Yesanchinoside B, 22894
- C₄₈H₈₄N₄O₁₂**
 Bassianolide, 2162
- C₄₈H₈₄O₂**
 α -Amyrin stearate, 1123
- C₄₈H₈₄O₃**
 Arnidiol 3-*O*-stearate, 1753
 16 β -Hydroxylupeol 3-*O*-stearate, 10349
 Maniladiol 3-*O*-stearate, 13500
- C₄₈H₉₁NO₉**
 1-*O*- β -*D*-Glucopyranosyl-(2*S*,3*R*,4*E*,8*Z*)-2-*N*-(2'-hydroxydocosanoyl) eicosasphinga-4,8-dienine, 8668
 1,3,5-Trihydroxy-2-hexadecanoylamino-(6*E*,9*E*)-heptacosdiene-1-*O*-glucopyranoside, 21742
- C₄₈H₉₃NO₈**
 N-Lignoceryl sphingosyl glucose, 12802
- C₄₈H₉₃NO₁₀**
 Helicia cerebroside A, 9302
 Iotroridoside B, 11124
 Linum cerebroside, 12895
- C₄₉H₃₈O₂₈**
 Stachyuranin B, 20256
- C₄₉H₄₈O₂₀**
 Vanicoside B, 22330
- C₄₉H₅₀O₁₁**
 Australone B, 2018
- C₄₉H₅₃NO₁₄**
N-Debenzoyl-*N*-cinnamoyltaxol, 4805
- C₄₉H₅₅NO₁₅**
 10-(β -Hydroxybutyryl)-10-deacetyltaxol, 9867
- C₄₉H₅₈O₂₇**
 Watterose D, 22642
 Watterose I, 22647
- C₄₉H₆₀O₂₃**
 Safghanoside G, 19118
 Safghanoside H, 19119
- C₄₉H₆₁NO₁₈**
 7-(β -Xylosyl)taxol D, 22853
- C₄₉H₆₃NO₁₇**
 7-(β -Xylosyl)-10-deacetyltaxol C, 22848
- C₄₉H₆₇N₉O₁₀**
 Microtoenin C, 14849
- C₄₉H₇₂O₁₆**
 21 β -*O*-Benzoylsitakigenin 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3)- β -*D*-glucuronopyranoside, 2271
- C₄₉H₇₂O₁₇**
 Otophyllioside A, 16270
- C₄₉H₇₄O₄**
 Ubiquinone 8, 22171
- C₄₉H₇₄O₁₉**
 Eupteleasaponin VI acetate, 7629
- C₄₉H₇₆O₁₆**
 Periplocoside C, 16946
- C₄₉H₇₆O₁₉**
 Papyrioside L-IIa, 16644
Symplocos glomerata saponin 2, 20530
Symplocos glomerata saponin 3, 20531
Symplocos glomerata saponin 6, 20534
Symplocos glomerata saponin 11, 20539
- C₄₉H₇₆O₂₀**
 3-*O*- β -*D*-Galactopyranosyl(1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-6-*O*-ethylglucuronopyranosyl-quillaic acid, 8073
- C₄₉H₇₇NO₁₀**
 Lipo-14-*O*-anisoylbikhaconine, 12898
- C₄₉H₇₈O₁₆**
 Otophyllioside B, 16271
 Wilfoside C₃N, 22693
- C₄₉H₇₈O₁₈**
 12-*O*-Acetylneolon-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 452
 3-*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-galactopyranosyl (1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-3 β ,22 β ,24-trihydroxy-11-oxo-olean-12-ene, 18708
 Taibaenoside II, 20614
- C₄₉H₇₈O₁₉**
 3-*O*-(4-*O*-Acetyl)- α -*L*-arabinopyranosyl-hederagenin 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-

- glucopyranoside, 323
- Chikusetsu saponin V methyl ester, 3525
- Metaplexigenin-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 13816
- Papyriocide L-IIb, 16645
- Saponin 5, 19337
- C₄₉H₇₈O₂₀**
- Acetyl-subproside II, 517
- Peruvianoside A, 16997
- Saponin 4, 19336
- Saponin 7, 19339
- Saponin 8, 19340
- C₄₉H₇₈O₂₁**
- Extensumside A, 7698
- 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl] phytolaccagenic acid 28-*O*- β -*D*-glucopyranosyl ester, 8652
- Peruvianoside B, 16998
- C₄₉H₇₈O₂₂**
- Chinenoside II, 3529
- C₄₉H₇₉O₂₁**
- Capilliposide J, 3129
- C₄₉H₈₀O₁₇**
- Kaikasaponin III methyl ester, 12114
- C₄₉H₈₀O₁₈**
- 15- β -Hydroxylineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 10333
- C₄₉H₈₀O₁₉**
- Asemetioside B, 1852
- C₄₉H₈₀O₂₀**
- Aquilegioside C, 1544
- Aquilegioside D, 1545
- C₄₉H₈₀O₂₁**
- Aquilegioside E, 1546
- Asparacoside, 1863
- C₄₉H₈₀O₂₂**
- Asparanin D, 1879
- C₄₉H₈₂O₁₆**
- Telosmoside A₄, 20915
- C₄₉H₈₂O₁₇**
- Telosmoside A₁, 20912
- C₄₉H₈₂O₁₈**
- 11 α -Methoxysaikosaponin f, 14087
- C₄₉H₈₂O₁₉**
- Justicioside D, 11986
- Saikosaponin 16, 19141
- 16 α ,23,28-Trihydroxy-11 α -methoxyolean-12-en-3 β -yl-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside, 21784
- C₄₉H₈₂O₂₂**
- Aspafilioside C, 1862
- C₄₉H₈₂O₂₈**
- Pyishiauoside IV_b, 18239
- C₄₉H₈₃NO₁₇**
- Abutiloside A, 38
- C₄₉H₈₆O₂**
- Stigmasterol arachidate, 20371
- C₄₉H₈₈O₁₅**
- 1-*O*-Hexadecanoyl-2-*O*-(9*Z*,12*Z*-octadecadienyl)-3-*O*-[α -*D*-galactopyranosyl-(1"-6')-*O*- β -*D*-galactopyranosyl]-glycerol, 9490
- C₅₀H₄₄O₂₂**
- 3*T*-*O*- α -*L*-Arabinopyranosylcinnamtannin B₁, 1562
- C₅₀H₅₀O₂₁**
- Lapathoside A, 12505
- C₅₀H₅₃NO₂₀**
- Wilforfine C, 22688
- C₅₀H₅₄O₈**
- Bianthrone A₁, 2346
- C₅₀H₅₇NO₁₇**
- 7-(β -Xylosyl)-10-deacetylaxol, 22847
- C₅₀H₅₉N₉O₁₂**
- Lyciumin C methylate, 13180
- C₅₀H₆₁NO₁₈**
- 7-(β -Xylosyl)cephalomannine, 22845
- C₅₀H₆₄O₁₁**
- Genkwadaphnin-20-palmitate, 8288
- C₅₀H₇₀O₁₇**
- Cynaphylloside E, 4560
- C₅₀H₇₀O₁₈**
- Cynaphylloside C, 4558
- C₅₀H₇₄O₂₈**
- Jasnudifoside L, 11832
- C₅₀H₇₆O₂₁**
- Licoricesaponin D₃, 12786
- Acantrifoside C, 92
- C₅₀H₇₈O₁₆**
- Dibutyl uralsaponin A ester, 5405
- C₅₀H₇₈O₁₈**
- 23-*O*-Acetylhederagenin 3-*O*-(4-*O*-acetyl- β -*D*-xylopyranosyl)-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside, 411
- Mukurozisaponin G, 15034
- C₅₀H₇₈O₁₉**
- Colubrinoside, 3933
- C₅₀H₇₈O₂₄**
- Funingenoside D, 8008
- C₅₀H₇₈O₂₇**
- 3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 6130
- C₅₀H₈₀O₂₇**
- Woodwardinoside, 22723
- C₅₀H₈₁NO₁₉**
- Arudonine, 1822
- C₅₀H₈₁NO₂₁**
- (25 ζ)-Solaniid-5-en-3 β ,22 β -dihydroxy 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside, 20055
- C₅₀H₈₂O₁₉**
- yl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-2 α -hydroxypregna-5,16-dien-20-one, 8660
- C₅₀H₇₉NaO₂₀**
- Sodium salt of alternoside II, 20037
- C₅₀H₈₀O₁₈**
- 12-*O*-Acetylneolon-3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 451
- C₅₀H₈₀O₁₉**
- 23-Acetoxy-16 α -hydroxy-13,28-epoxyolean-11-en-3 β -yl-[β -*D*-glucopyranosyl(1 \rightarrow 2)]-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside, 214
- Trojanoside J, 22047
- C₅₀H₈₀O₂₁**
- Pariphyllin B, 16669
- Parissaponin Pb, 16670
- C₅₀H₈₀O₂₂**
- Aspidistrin, 1898
- CTHD0233276-10, 4295
- Polyspirostanol PO₃, 17678
- Polyspirostanol PO₆, 17681
- C₅₀H₈₀O₂₃**
- Agave americana* Compound 4, 715
- Anemarsaponin G, 1177
- Cantalasaponin 2, 3091
- Hecogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 9255
- Neoprazerigenin A 3-*O*- β -*D*-lycotetraoside, 15450
- Ophiopogon B, 16142
- Polyspirostanol PO₂, 17677
- Polyspirostanol PO₆, 17680
- Ruscocide, 19074
- Terrestrosin D, 21016
- C₅₀H₈₀O₂₄**
- (25*R*)-2 α ,17 α -Dihydroxyspirost-5-en-3 β -yl *O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 6130
- C₅₀H₈₀O₂₇**
- Woodwardinoside, 22723
- C₅₀H₈₁NO₁₉**
- Arudonine, 1822
- C₅₀H₈₁NO₂₁**
- (25 ζ)-Solaniid-5-en-3 β ,22 β -dihydroxy 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside, 20055
- C₅₀H₈₂O₁₉**

- copyranosyl-(1→2)-*O*-[β -*D*-xylopyranosyl-(1→3)]-*O*- β -*D*-glucopyranosyl-(1→4)- β -*D*-galactopyranosyl)-oxy]-2 α ,16 β -dihydroxypregn-5-ene-20-carboxylic acid γ -lactone, 8657
- C₅₁H₈₂O₁₈**
Hemslonin B, 9358
Taibaenaside I, 20613
- C₅₁H₈₂O₂₀**
Asperin, 1889
Diosgenin 3-*O*- α -*L*-rhamnopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→4)-[α -*L*-rhamnopyranosyl-(1→2)]- β -*D*-glucopyranoside, 6447
Diosgenin 3-*O*-[α -*L*-rhamnopyranosyl (1→3)- α -*L*-rhamnopyranosyl (1→4)- α -*L*-rhamnopyranosyl (1→4)]- β -*D*-glucopyranoside, 6448
Polyphyllin E, 17656
Polyphyllin F, 17657
- C₅₁H₈₂O₂₁**
Diosgenin -3-*O*- α -*L*-rhamnopyranosyl (1→3)- α -*L*-rhamnopyranosyl (1→4)- β -*D*-glucopyranosyl (1→4)- β -*D*-glucopyranoside, 6449
(25*R*)-2 α -Hydroxyspirost-5-en-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[*O*- α -*L*-rhamnopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→4)]- β -*D*-glucopyranoside, 10727
Musennin, 15131
Pennogenin rhamnosyl chacotrioxide, 16815
Pseudoprotodioscin, 18056
Solasodoside A, 20068
(25*S*)-Spirost-5-en-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[*O*- β -*D*-glucopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→3)]- β -*D*-glucopyranoside, 20223
- C₅₁H₈₂O₂₂**
Diosgenin -3-*O*- β -*D*-glucopyranosyl (1→4)- α -*L*-rhamnopyranosyl (1→4)- β -*D*-glucopyranosyl (1→4)- β -*D*-glucopyranoside, 6444
Graecunin E, 8969
(24*S*,25*R*)-24-Hydroxyspirost-5-en-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1→2)-*O*-[*O*- β -*D*-glucopyranosyl-(1→4)- α -*L*-rhamnopyranosyl-(1→3)]- β -*D*-glucopyranoside, 10725
Soyasaponin A₆, 20126
woodwardinoside B, 22724
- C₅₁H₈₂O₂₃**
Abutiloside L, 45
(23*S*)-3 β -[(*O*- β -*D*-Apiofuranosyl-(1→2)-*O*- β -*D*-glucopyranosyl-(1→2)- α -*L*-arabinopyranosyl-(1→6)- β -*D*-glucopyranosyl)oxy]-17 α ,23-epoxy-28,29-dihydroxy-27-norlanost-8-en-24-one, 1506
Avenacoside A, 2031
Deltoside, 5041
- Hypoglaucin G, 10896
Luciamin, 13022
- C₅₁H₈₄O₂₄**
Abutiloside N, 47
Protozingiberensisaponin, 17997
- C₅₁H₈₄O₁₃**
Glycerol- α , β -dilinolenate- α '-rhamno-rhamnoside, 8809
- C₅₁H₈₄O₁₅**
1,2-Di-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-[α -*D*-glucose(1→6)- β -*D*-allose]-glycerol, 6429
- C₅₁H₈₄O₂₁**
Malonylginsenoside Rd, 13443
- C₅₁H₈₄O₂₂**
Parillin, 16666
Polyphyllin G, 17658
Protodioscin, 17973
Protoneodioscin, 17980
Trigofoenoside E₁, 21654
Trigonelloside C, 21663
- C₅₁H₈₄O₂₃**
Macrostemonoside A, 13326
Protograccillin, 17975
Trigofoenoside D, 21651
Trigofoenoside F, 21655
- C₅₁H₈₄O₂₄**
Isoerubioside B, 11414
(25*R,S*)-5 α -Spirostane-2 α ,3 β -diol 3-*O*-[*O*- β -*D*-glucopyranosyl-(1→2)]-*O*-[β -*D*-glucopyranosyl-(1→3)]-*O*- β -*D*-glucopyranosyl-(1→4)- β -*D*-galactopyranoside], 20213
- C₅₁H₈₅NO₂₁**
Commersonine, 3942
- C₅₁H₈₆O₇**
Stigmasta-7,22,25-triene-3-*O*- β -*D*-(6'-palmitoyl)glucopyranoside, 20359
- C₅₁H₈₆O₂₁**
Spongioside A, 20228
- C₅₁H₈₆O₂₂**
Asp-VI, 1907
26-*O*- β -*D*-Glucopyranosyl-(25*R*)-3 β ,22 ζ ,26-trihydroxyl-5 α -furostane 3-*O*- β -chacotrioxide, 8742
- C₅₁H₈₆O₂₃**
Asparamin B₈, 1876
Asparaside A, 1880
Trigofoenoside C, 21649
Trigoneoside 1, 21664
- C₅₁H₈₈O₇**
6'-Palmityl- α -spinasteryl- β -*D*-glucoside, 16569
 β -Sitosterol-3-(6-palmitoleoyl)glucopyranoside, 19990
Stigmast-3-*O*- β -*D*-glucopyranosyl-6-hexa-
- decanoate, 20378
- C₅₁H₉₀O₇**
6'-Palmityl- Δ^7 -spinasteryl- β -*D*-glucoside, 16570
 β -Sitosteryl-*D*-glucoside-6'-palmitate, 19997
- C₅₁H₉₈O₆**
Palmitin, 16560
- C₅₂H₄₆O₂₆**
Trilobatin J, 21885
- C₅₂H₅₅O₂₅⁺**
Pelargonidin-3-*O*-[6-*O*-(*E*)-*p*-coumaroyl-2-*O*-(6-*E*)-feruloyl- β -*D*-glucopyranosyl)-(1→2)- β -*D*-glucopyranoside]-5-*O*-(β -*D*-glucopyranoside), 16780
- C₅₂H₅₅O₂₆⁺**
Pelargonidin-3-*O*-[6-*O*-(*E*)-caffeoyl-2-*O*-(6-*E*)-feruloyl- β -*D*-glucopyranosyl)-(1→2)- β -*D*-glucopyranoside]-5-*O*-(β -*D*-glucopyranoside), 16778
Pelargonidin-3-*O*-[6-*O*-(*E*)-feruloyl-2-*O*-(6-*E*)-caffeoyl- β -*D*-glucopyranosyl)-(1→2)- β -*D*-glucopyranoside]-5-*O*-(β -*D*-glucopyranoside), 16782
- C₅₂H₅₉NO₁₈**
Taxol C-7-xylose, 20816
7-(β -Xylosyl)taxol, 22851
- C₅₂H₆₂O₂₈**
Fallaxose D, 7712
Watterose A, 22639
- C₅₂H₆₂O₂₉**
Watterose F, 22644
- C₅₂H₆₄O₂₆**
Coelobillardin, 3888
- C₅₂H₆₆O₁₁**
Gnidicin-20-palmitate, 8899
- C₅₂H₇₄O₁₉**
Inerme A, 11033
- C₅₂H₇₆O₅**
Siphonein, 19965
- C₅₂H₇₇NO₁₈**
12-*O*-Nicotinoyllineolon 3-*O*- β -*D*-oleandropyranosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranoside, 15533
- C₅₂H₇₇NO₁₉**
Rostratamine 3-*O*- β -*D*-oleandropyranosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranosyl-(1→4)- β -*D*-digitoxopyranoside, 18937
- C₅₂H₈₀O₁₈**
3-*O*- β -*D*-Galactopyranosyl-(1→2)- β -*D*-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylbarringtonol C, 8055
- C₅₂H₈₂O₂₁**

- Begoniifolide B, 2212
 Begoniifolide C, 2213
 Ciwujianoside C₁, 3781
 2 α ,3 β -Dihydroxyurs-12,20(30)-dien-28-oic acid
 3-*O*-{*O*- β -*D*-quinovopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-
 arabinopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)] β -*D*-glucopyranoside}, 6174
 Eupteleasaponin I, 7622
 Eupteleasaponin XII, 7635
 3-*O*-methyl malonylhederagenin 28-*O*- α -*L*-
 rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-
 (1 \rightarrow 6)- β -*D*-glucopyranoside, 14573
 23-*O*-Methyl malonylhederagenin 28-*O*- α -*L*-
 rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-
 (1 \rightarrow 6)- β -*D*-glucopyranoside, 14574
 Yemuoside YM₁₄, 22892
C₅₂H₈₂O₂₂
 Araloside B, 1609
 2 α ,3 β -Dihydroxyurs-12,20(30)-dien-28-oic acid
 3-*O*-{*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-
 arabinopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)] β -*D*-glucopyranoside}, 6173
Symplocos glomerata saponin 7, 20535
 3-*O*-[(2'-*O*-Xylosyl)-(3'-*O*-rabinosyl)]-glucuro-
 nyleanolic acid-28-*O*- β -*D*-glucopyranoside,
 22850
C₅₂H₈₂O₂₃
 (23*R*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-
 rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyra-
 nosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)-
 β -*D*-glucopyranosyl)oxy]-27-norlanost-8-ene-
 15,24-dione, 7130
 (23*S*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-
 rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyra-
 nosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)-
 β -*D*-glucopyranosyl)oxy]-27-norlanost-8-ene-
 15,24-dione, 7131
C₅₂H₈₂O₂₄
 Aesculicide A, 665
 (23*S*,25*R*)-3 β -[(*O*- β -*D*-Apiofuranosyl-(1 \rightarrow 2)-*O*-
 β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyra-
 nosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl)oxy]-17 α ,
 23-epoxy-28,29-dihydroxylanost-8-en-23,26-
 olide, 1505
C₅₂H₈₂O₂₅
 Desacyl-theasaponin E, 5243
 Withanoside IX, 22712
C₅₂H₈₄O₂₀
 Clematis prosapogenin, Cp7a, 3823
 Obtusilobicinin, 15905
 Oleanolic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)-
 β -*D*-ribofuranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside, 16057
 Oleanolic acid-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)-
 β -*D*-xylopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside, 16058
 Scabioside E, 19445
C₅₂H₈₄O₂₁
 Hederagenin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-
 α -*L*-arabinopyranosyl-28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9272
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Pometia ridleyi saponin 3, 17690
Pometia ridleyi saponin 8, 17694
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 Sapindoside C, 19318
 Yuzhizioside, 22957
 Zizyphussaponin III, 23018
C₅₂H₈₄O₂₂
 Dioscoreside C, 6438
 Echinosophoside B, 6694
 (23*S*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-
 rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyra-
 nosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)-
 β -*D*-glucopyranosyl)oxy]-27-norlanost-8-en-
 24-one, 7132
 Isolineolon 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-
 oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyra-
 nosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)-
 β -*D*-digitoxopyranoside, 11499
 Lineolon-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-
 oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyra-
 nosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -
 β -*D*-digitoxopyranoside, 12882
 Prostratoside D, 17959
 Prostratoside E, 17960
C₅₂H₈₄O₂₃
 Abutiloside M, 46
 Echinosophoside A₁, 6693
 (23*S*)-17 α ,23-Epoxy-28,29-dihydroxy-3 β -[(*O*- α -
 α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyra-
 nosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -
 β -*D*-glucopyranosyl)oxy]-27-norlanost-8-en-24-
 one, 7083
 15- β -Hydroxylneolon 3-*O*- β -*D*-allopyranosyl-
 (1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-
 digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyrano-
 syl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 10328
 15- β -Hydroxylneolon 3-*O*- β -*D*-glucopyranosyl-
 (1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-
 digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyrano-
 syl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 10330
 Platycoside J, 17543
 Soyasaponin A₅, 20125
C₅₂H₈₄O₂₄
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C₅₂H₈₅NO₂₃
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C₅₂H₈₆O₁₄
 Taibaienoside V, 20617
C₅₂H₈₆O₁₉
 Quinquenoside I, 18446
C₅₂H₈₆O₂₂
 Gypenoside XXXV, 9144
 22-*O*-Methylprotodioscin, 14698
 19-Oxo-3 β ,20*S*,21,24*S*-tetrahydroxydammar-25-
 ene 3-*O*-{[α -*L*-rhamnopyranosyl(1 \rightarrow 2)] β -*D*-
 xylopyranosyl(1 \rightarrow 3)]- α -*L*-arabinopyranosyl}-
 21-*O*- β -*D*-glucopyranoside, 16428
 S-5, 19093
C₅₂H₈₆O₂₃
 Capilliposide A, 3125
 (25*R*)-26-(β -*D*-Glucopyranosyloxy)-22-methoxy-
 furost-5-en-3 β -yl-*O*- α -*L*-rhamnopyranosyl-
 (1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-
 glucopyranoside, 8705
 Methyl deltoside, 14287
 19-Oxo-3 β ,20*S*,21-trihydroxy-25-hydroperoxy-
 dammar-23-ene 3-*O*-{[α -*L*-rhamnopyranosyl
 (1 \rightarrow 2)] β -*D*-xylopyranosyl(1 \rightarrow 3)]- α -*L*-arabi-
 nopyranosyl}-21-*O*- β -*D*-glucopyranoside,
 16433
 (25*R*)-26-[(α -*L*-Rhamnopyranosyl)oxy]-22 α -
 methoxyfurost-5-en-3 β -yl-*O*- β -*D*-glucopyra-
 nosyl-(1 \rightarrow 3)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-
 β -*D*-glucopyranoside, 18731
 Trigofenoside D₁, 21652
 Trigofenoside F₁, 21656
C₅₂H₈₈O₂₁
 Gypenoside LVIII, 9163
 Lotoideside A, 13004
 Notoginsenoside O, 15833
 Notoginsenoside P, 15834
 3 β ,19,20*S*,21-Tetrahydroxydammar-24-ene 3-*O*-
 {[α -*L*-rhamnopyranosyl(1 \rightarrow 2)] β -*D*-xylopyra-
 nosyl(1 \rightarrow 3)]- α -*L*-arabinopyranosyl}-21-*O*- β -
 β -*D*-glucopyranoside, 21091
C₅₂H₈₈O₂₂
 Gypenoside XXII, 9139
C₅₂H₈₈O₂₃
 Trigofenoside C₁, 21650
C₅₂H₉₂O₇
 β -Sitosteryl glucoside 3'-*O*-heptadecicoate,
 19996
C₅₂H₁₀₄O₂

- Ceryl cerotate, 3436
 Octacosyl lignocerate, 15937
C₅₃H₅₇O₂₆⁺
 Pelargonidin-3-*O*-[6-*O*-(*E*)-feruloyl-2-*O*-(2-(*E*)-feruloyl- β -*D*-glucopyranosyl)-(1 \rightarrow 2)- β -*D*-glucopyranoside]-5-*O*-(β -*D*-glucopyranoside), 16783
C₅₃H₆₂O₂₈
 Reiniöse G, 18609
C₅₃H₆₂O₂₉
 Watterose B, 22640
C₅₃H₆₂O₃₀
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C₅₃H₆₄O₂₉
 Senegose G, 19722
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C₅₃H₇₄O₁₁
 Gnidilatidin 20-palmitate, 8901
C₅₃H₇₆O₂₀
 Inerme B, 11034
C₅₃H₇₉NO₁₈
 12-*O*-Nicotinoyllineolon 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 15532
C₅₃H₈₀O₂
 Plastoquinone, 17515
C₅₃H₈₀O₂₀
 TR-saponin A, 22061
C₅₃H₈₁N₃O₈
 Incarvillateine E, 11009
C₅₃H₈₂O₂₀
 TR-saponin B, 22062
C₅₃H₈₂O₂₂
 Eupteleasaponin VII, 7630
 Kudinoside E, 12303
C₅₃H₈₂O₂₃
 Koelreuteriasaponin B, 12246
C₅₃H₈₂O₂₅
 Achyranthoside I, 543
C₅₃H₈₄O₂₁
 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl-22-*O*- β , β -dimethylacryloyl-barrigenol A₁, 8725
 Latifolioside K, 12557
C₅₃H₈₄O₂₂
 Ardisimamilloside B, 1640
 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl-22-*O*-angeloyl-barrigenol R₁, 8724
 llekudinoside G, 10977
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)-[α -*L*-arabinopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl
 oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester, 18688
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-3 β -hydroxyolean-12-en-28-oate, 18727
 Rivularinin, 18855
C₅₃H₈₄O₂₂S
 Extensumside B, 7699
C₅₃H₈₄O₂₃
 Araloside C, 1610
 Escin IVg, 7363
 Escin IVh, 7364
 llekudinoside H, 10978
 Kudinoside C, 12301
 Lanostane glycoside, 12481
 Stipuleanoside R₂, 20384
 Yiyeliangwenoside XI, 22919
C₅₃H₈₄O₂₄
 Camellidin II, 3037
 Sophoraflavoside III, 20091
C₅₃H₈₄O₂₅
 3 β -*O*-(β -Glucopyranosyl-(1 \rightarrow 2)- β -glucopyranosyl(1 \rightarrow 3)- β -xylopyranosyl)-16 α -hydroxy-olean-12-en-28-*O*-(β -galactopyranosyl) ester-30-oic acid, 8662
C₅₃H₈₆O₂₀
 Eupteleasaponin XI, 7634
 Raddeanin C, 18517
C₅₃H₈₆O₂₁
 Anhuienoside C, 1253
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 Matesaponin 2, 13599
 Mubenin A, 15004
 Nudicaucin C, 15860
 Oleanolic acid 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 16049
 Pastuchoside E, 16702
 3 β -*D*-*O*-(α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)-olean-12-ene-28-*O*-(β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl) ester, 18693
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-quinovopyranosyl pyrocincholic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 18732
 3 β -*D*-*O*-(β -*D*-Xylopyranosyl)-olean-12-ene-28-*O*-(α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl) ester, 22838
C₅₃H₈₆O₂₂
 Ardipusilloside I, 1626
 Ardisicrispin B, 1638
 Ardisimamilloside G, 1641
 Cauloside D, 3343
 Cernuoside C, 3433
 Clematibetoside C, 3821
 3 β -*O*-(β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)-hederagenin-28-*O*- β -*D*-glucopyranosyl ester, 8715
 Hederagenin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9271
 Ioniceroside C, 11121
 Isolineolon 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 11498
 Kudinoside G, 12305
 Latifolioside C, 12549
 Latifolioside E, 12551
 Latifolioside L, 12558
 Lineolon-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 12881
 Macranthoside B, 13303
 Matesaponin 3, 13600
 Mubenin C, 15005
 Mukurozisaponin X, 15035
 Oleanolic acid-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 16054
Pometia ridleyi saponin 5, 17691
 3 β -*O*-(α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl)-hederagenin-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl)ester, 18689
 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl ester, 22827
C₅₃H₈₆O₂₃
 Aralia-saponin IX, 1607
 Ardisimamilloside A, 1639
 Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside, 9263
 Ixerissaponin B, 11800
 Spongioside B, 20229
 2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid *O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 21826

- C₅₃H₈₆O₂₄**
 Ixerissaponin C, 11801
 Macrostemonoside D, 13329
 Saikosaponin V, 19164
 Scorzoneroside A, 19563
 Soyasaponin A₂, 20122
- C₅₃H₈₈O₂₁**
 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-fucopyranosyl (22*S*,24*Z*)-cycloart-24-en-3 β ,22,26-triol 26-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 8626
 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-fucopyranosyl (22*S*,24*Z*)-cycloart-24-en-3 β ,22,26-triol 26-*O*- β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 8629
- C₅₃H₈₈O₂₂**
 Gypenoside XXXIV, 9143
 Gypenoside XXXVII, 9146
- C₅₃H₈₈O₂₃**
 3 β ,11 α ,16 β -Trihydroxycycloartane-24-one-3-*O*-[β -D-glucopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl]-16-*O*- α -L-arabinopyranoside, 21697
 Yesaninoside G, 22899
- C₅₃H₈₈O₇**
 Stigmasterol-3-(6-linoleoyl)glucopyranoside, 20373
- C₅₃H₉₀O₇**
 β -Sitosterol-3-(6-linoleoyl)glucopyranoside, 19989
 Stigmasterol-3-(6-oleoyl)glucopyranoside, 20374
- C₅₃H₉₀O₂₁**
 3 β ,20*S*,21-Trihydroxydammar-24-ene 3-*O*-{[α -L-rhamnopyranosyl(1 \rightarrow 2)][β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosyl}-21-*O*- β -D-glucopyranoside, 21702
- C₅₃H₉₀O₂₂**
 Ginsenoside Rb₂, 8424
 Ginsenoside Rc, 8426
 Gypenoside XLIII, 9152
 Gypenoside LVI, 9161
 Gypenoside LXIII, 9167
 Notoginsenoside L, 15830
 3 β ,19,20*S*,21-Tetrahydroxydammar-24-ene 3-*O*-{[α -L-rhamnopyranosyl(1 \rightarrow 2)][β -D-xylopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosyl}-21-*O*- β -D-glucopyranoside, 21092
- C₅₃H₉₀O₂₃**
 Ginsenoside Rb₃, 8425
 Gypenoside XLII, 9151
 Gypenoside LXII, 9166
 Gypenoside LXVII, 9170
 Gypenoside LXVIII, 9171
- Gypenoside LXX, 9172
 Yesaninoside H, 22900
- C₅₃H₉₀O₂₄**
 3 β ,6 α ,12 β ,20*S*,25-Pentahydroxyl-dammar-23-ene-6-*O*- β -D-glucopyranoside-20-*O*- β -D-glucopyranosyl-3-*O*- β -D-xylopyranosyl(1 \rightarrow 6)-*D*-glucopyranoside, 16850
 3 β ,12,20*S*-Trihydroxy-25-hydroperoxydammar-23-ene 3-*O*-{[β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl]-20-*O*-{[β -D-xylopyranosyl(1 \rightarrow 6)]- β -D-glucopyranoside}, 21743
- C₅₃H₉₂O₇**
 Stigmasterol-3-(6-stearoyl)glucopyranoside, 20375
- C₅₃H₉₄O₇**
 β -Sitosterol-3-(6-stearoyl)glucopyranoside, 19991
- C₅₃H₁₀₂O₆**
 (2*S*)-1,3-Di-(*O*-palmitoyl)-2-*O*-octadecanoyl glycerol, 6480
- C₅₄H₄₂O₃₆**
 Sanguinin H₈, 19280
 Sanguinin H₉, 19281
- C₅₄H₄₆O₂₈**
 Pentaisofuhalol dodecaacetate, 16860
- C₅₄H₅₄O₁₁**
 Blepharocalyxin E, 2500
- C₅₄H₆₄O₂₉**
 Glomeratose F, 8587
 Reiniose H, 18610
- C₅₄H₆₄O₃₀**
 Watterose E, 22643
- C₅₄H₆₆O₃₁**
 Paniculatonoid A, 16607
- C₅₄H₇₈O₁₉**
 16 β -[(*O*-(2-*O*-(*E*)-Cinnamoyl)- β -D-xylopyranosyl)-(1 \rightarrow 2)-2-*O*-acetyl- α -L-arabinopyranosyl)oxy]-3 β -[(β -D-glucopyranosyl)oxy]-17 α -hydroxycholest-5-en-22-one, 3724
- C₅₄H₈₀O₂₀**
 Avenacin B₂, 2030
- C₅₄H₈₀O₂₁**
 3 β ,17 α -Dihydroxy-16 β -[(*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*-(2-*O*-3,4-dimethoxybenzoyl)- β -D-xylopyranosyl)-(1 \rightarrow 3)-2-*O*-acetyl- α -L-arabinopyranosyl)oxy]cholest-5-en-22-one, 5899
 3 β -[(β -D-Glucopyranosyl)oxy]-17 α -hydroxy-16 β -[(*O*-(2-*O*-3,4-dimethoxybenzoyl)- β -D-xylopyranosyl)-(1 \rightarrow 2)-2-*O*-acetyl- α -L-arabinopyranosyl)oxy]cholest-5-en-22-one, 8691
- C₅₄H₈₂O₂₂**
 Az III, 2059
- C₅₄H₈₂O₂₃**
 Az II, 2058
- C₅₄H₈₃NO₁₁**
 1,2-Di-*O*-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-(6-*p*-hydroxy-phenyl-propionamido-6-deoxy- α -D-glucosyl)-glycerol, 6430
- C₅₄H₈₄O₂₁**
 Capilliposide I, 3128
- C₅₄H₈₄O₂₂**
 Az IV, 2060
- C₅₄H₈₄O₂₃**
Symplocos glomerata saponin 8, 20536
- C₅₄H₈₄O₂₅**
 Ageratoside A₄, 731
 Ageratoside A₅, 732
 Sinocrassulose II, 19937
 Sinocrassulose V, 19940
- C₅₄H₈₄O₂₇**
 Lucilianoside D, 13059
- C₅₄H₈₆O₁₉**
 12-*O*-Tigloyllineolon, 21378
- C₅₄H₈₆O₂₀**
 12-*O*-Tigloyldeacylmetaplexigenin, 21375
- C₅₄H₈₆O₂₁**
 Cynanauriculoside B, 4553
- C₅₄H₈₆O₂₂**
 Acetyljujuboside B, 443
 Cirenshenoside U, 3739
 Hederagenin-3-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-28-*O*-3-acetyl- β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside, 9269
- C₅₄H₈₆O₂₃**
 12-*O*-Acetyllyneolon 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside, 450
 Achyrantes saponin D, 542
 3-*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 4)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl oleanolic acid 28-*O*- β -D-Glucopyranosylester, 18705
- C₅₄H₈₆O₂₄**
 Berneuxia saponin C, 2315
 Calendasaponin A, 2965
Calendula officinalis Glycoside A, 2969
 Hydrocotyloside III, 9712
 Hydrocotyloside IV, 9713
 Metaplexigenin-3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside, 13815
- C₅₄H₈₆O₂₅**
 Azukisaponin VI, 2070
 Calendasaponin D, 2968

- Dianoside B, 5359
- C₅₄H₈₆O₂₆**
Segetoside K, 19668
- C₅₄H₈₈O₂₁**
Gypentonoside A, 9182
Mimengoside A, 14866
- C₅₄H₈₈O₂₂**
Achyranthes saponin B, 540
3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl(1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-soyasapogenol B 22-*O*- β -*D*-glucopyranoside, 18737
3 β ,16 α ,28-Trihydroxyolean-11,13(18)-dien-3 β -yl- β -*D*-glucopyranosyl-(1 \rightarrow 6)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside-28-*O*- β -*D*-glucopyranoside, 21823
- C₅₄H₈₈O₂₃**
Acankoreoside C, 73
Aralia-saponin V, 1603
Calenduloside D, 2974
Cirensenoside S, 3737
Cirensenoside T, 3738
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl oleanolic acid 28- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 8648
15- β -Hydroxylneolon 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 10329
Paridiformoside, 16664
3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl}-primulagenin A, 18699
3-*O*-[α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-22-*O*- β -*D*-glucopyranosylsoyasapogenol B, 18703
3 β ,21 β ,22 β ,24-Tetrahydroxyolean-12-en-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- β -*D*-galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranoside, 21146
- C₅₄H₈₈O₂₄**
Aralia-saponin VI, 1604
Aralia-saponin VII, 1605
(25*R*)-26-[(α -*L*-Rhamnopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-*O*-[6-acetyl- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranoside, 18730
Saikosaponin O, 19154
Ternstroemiaside A, 20980
Ternstroemiaside C, 20982
- C₅₄H₈₈O₂₅**
- Desacyl-boninsaponin A, 5241
Glycoside H₂, 8830
S-4a, 19092
- C₅₄H₉₀O₉**
Kansuiphorin A, 12145
- C₅₄H₉₀O₁₀**
Kansuiphorin B, 12146
- C₅₄H₉₀O₂₁**
3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranosyl (22*S*,24*Z*)-cycloart-24-en-3 β ,22,26-triol
26-*O*- β -*D*-quinovopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 8628
Telosmoside A₈, 20919
- C₅₄H₉₀O₂₂**
Gypenoside XXXVI, 9145
Primulasaponin, 17859
Telosmoside A₉, 20920
3 β ,20*S*,21-Trihydroxydammar-24-ene 3-*O*-{[α -*L*-rhamnopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosyl}-21-*O*- β -*D*-glucopyranoside, 21700
- C₅₄H₉₀O₂₄**
Notoginsenoside B, 15819
Quinquenoside IV, 18449
- C₅₄H₉₂O₂₁**
Gypenoside VII, 9128
- C₅₄H₉₂O₂₂**
Gypenoside V, 9126
Gypenoside VI, 9127
Gypenoside XVIII, 9135
Notoginsenoside I, 15827
- C₅₄H₉₂O₂₃**
Ginsenoside Rb₁, 8423
Gypenoside XIX, 9136
Yesanchinoside E, 22897
Yixinoside A, 22913
- C₅₄H₉₂O₂₄**
Grosomoside I, 9012
Notoginsenoside A, 15818
(24*S*)-3 β ,11 α ,16 β ,24-Tetrahydroxycycloartane-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl]-24-*O*- β -*D*-glucopyranoside, 21087
- C₅₄H₉₂O₂₅**
Notoginsenoside C, 15820
Notoginsenoside K, 15829
- C₅₄H₁₀₈O₂**
Ceryl montanate, 3438
Heptacosyl heptacosanate, 9372
Melissyl lignocerate, 13708
- C₅₅H₆₀O₃₀**
Quercetin-3-(2-sinapoyl-*O*- β -*D*-glucopyranosyl)-3'-(6-sinapoyl-*O*- β -*D*-glucopyranosyl)-4'-*O*- β -*D*-glucopyranoside, 18397
- C₅₅H₆₂N₁₀**
Psychotridine, 18094
- C₅₅H₆₆O₃₀**
Senegose F, 19721
- C₅₅H₆₉N₁₁O₁₃**
Celogenamide A, 3384
- C₅₅H₇₂N₄O₆**
Pheophytin b, 17141
- C₅₅H₇₃N₉O₉S₂**
Cyclolinopeptide I, 4514
- C₅₅H₇₃N₉O₁₀S₂**
Cyclolinopeptide F, 4511
- C₅₅H₇₄N₄O₅**
Pheophytin a, 17140
- C₅₅H₈₀O₁₈**
Ikemagenin 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside, 10966
- C₅₅H₈₂O₂₂**
3 β ,17 α -Dihydroxy-16 β -[(*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*-(2-*O*-3,4,5-trimethoxybenzoyl)-*D*-xylopyranosyl)-(1 \rightarrow 3)-2-*O*-acetyl- α -*L*-arabinopyranosyl)oxy]cholest-5-en-22-one, 5900
- C₅₅H₈₃NO₂₀**
Pregnane glycoside HI, 17793
- C₅₅H₈₃NO₂₁**
Avenacin A₁, 2029
- C₅₅H₈₄O₂₁**
TR-saponin C, 22063
- C₅₅H₈₆O₂₂**
Tenacissoside K, 20931
- C₅₅H₈₆O₂₃**
Escin IIIa, 7362
- C₅₅H₈₆O₂₄**
Aescin, 660
Escin Ia, 7361
Escin VIb, 7365
Isoescin Ia, 11416
Isoescin Ib, 11417
Symplocos glomerata saponin 9, 20537
Symplocos glomerata saponin 10, 20538
Yiyeliangwenoside IX, 22917
Yiyeliangwenoside X, 22918
- C₅₅H₈₆O₂₅**
Camellidin I, 3036
Sinocrassuloside III, 19938
- C₅₅H₈₈O₂₁**
Cynanauriculoside A, 4552
- C₅₅H₈₈O₂₂**
Ciwujianoside D₁, 3782
- C₅₅H₈₈O₂₃**

- 12-*O*-Acetylneolon 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 449
- Hederagenin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-28-*O*-6-acetyl- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside, 9268
- Taibaienoside III, 20615
- Taibaienoside VII, 20618
- C₅₅H₈₈O₂₄**
Metaplexigenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 13814
- Saponin 9, 19341
- C₅₅H₈₈O₂₅**
Calendasaponin C, 2967
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl] phytolaccagenic acid 28-*O*- β -*D*-glucopyranosyl ester, 18713
- C₅₅H₈₈O₂₇**
(25*R*)-3 β -[(*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-5 α -spirostan-12-one, 1571
- Cantalasaponin 4, 3093
- Hecogenin 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 9256
- C₅₅H₉₀O₂₃**
3-*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-galactopyranosyl (1 \rightarrow 2)-6-*O*-methyl- β -*D*-glucuronopyranosyl-soyasapogenol B-22-*O*- β -*D*-glucopyranoside, 18707
- C₅₅H₉₀O₂₆**
Agave americana Glycoside 1, 716
- Agave cantala* Agaveside B, 718
- Agave cantala* Compound 1', 722
- Dongnoside D, 6556
- Tigogenin 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 21387
- C₅₅H₉₀O₂₇**
Chlorogenin-3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside, 3553
- C₅₅H₉₂O₁₉**
Telosmoside A₇, 20918
- C₅₅H₉₂O₂₂**
Mimengoside B, 14867
- Telosmoside A₂, 20913
- 3 β ,20*S*,21-Trihydroxydammar-24-ene 3-*O*-{[α -*L*-rhamnopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-[6-*O*-acetylglucopyranosyl]}-21-*O*- β -*D*-glucopyranoside, 21701
- C₅₅H₉₂O₂₃**
Ginsenoside Rs₁, 8446
- Ginsenoside Rs₂, 8447
- C₅₅H₉₂O₂₆**
Asparaside C, 1883
- C₅₅H₉₂O₂₇**
Asparaside D, 1884
- C₅₅H₉₈O₇**
 β -Sitosterol-3-*O*- β -*D*-glucoside-6'-*O*-eicosanate, 19988
- C₅₅H₉₉N₃O₁₈**
Polaramycin A, 17609
- C₅₆H₃₈O₁₂**
Upunaphenol B, 22233
- C₅₆H₄₀O₁₂**
Davidiol C, 4697
- Kobophenol B, 12240
- C₅₆H₄₀O₁₃**
Nepalensinol G, 15481
- C₅₆H₄₀O₃₁**
Stenophyllanin A, 20310
- C₅₆H₄₂O₁₂**
Cotylelophenol C, 4130
- Gnemonol B, 8867
- Gnemonol C, 8868
- Halophilol B, 9199
- cis*-Miyabenol A, 14890
- Nepalensinol F, 15480
- Upunaphenol D, 22235
- Vaticanol B, 22355
- Vaticanol C, 22356
- (+)-Vitisin A, 22584
- (+)-*cis*-Vitisin A, 22585
- Vitisin B, 22586
- Vitisin C, 22587
- (+)-Vitisin D, 22588
- C₅₆H₄₂O₁₃**
Upunaphenol C, 22234
- C₅₆H₄₄O₁₃**
Kobophenol A, 12239
- Nepalensinol E, 15479
- C₅₆H₄₆O₈**
Pusilatol C, 18225
- C₅₆H₇₂O₆**
Xuxuasins A, 22812
- C₅₆H₇₂O₇**
7',8'-Dihydroxuxuarine A α , 5744
- Xuxuasins B, 22813
- C₅₆H₇₂O₈**
7',8'-Dihydroxuxuarine D β , 5745
- C₅₆H₇₅N₉O₉S₂**
Cyclolinopeptide H, 4513
- C₅₆H₇₅N₉O₁₀S₂**
Cyclolinopeptide G, 4512
- C₅₆H₈₀O₂₂**
Cynaphylloside G, 4562
- C₅₆H₈₂O₁₈**
Ikemagenin 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 10965
- C₅₆H₈₂O₂₂**
Periandrulcin A, 16918
- C₅₆H₈₄O₁₉**
Pregnane glycoside AI, 17785
- Pregnane glycoside BI, 17786
- C₅₆H₈₄O₂₀**
Pregnane glycoside CI, 17787
- Pregnane glycoside CII, 17788
- Pregnane glycoside WI, 17800
- 12-*O*-Salicyloylneolon, 19190
- C₅₆H₈₄O₂₁**
Pregnane glycoside UI, 17798
- Pregnane glycoside VI, 17799
- 12-*O*-Salicyloyldeacetylmetaplexigenin, 19189
- C₅₆H₈₆O₃**
Lutein-3-palmitate, 13135
- C₅₆H₈₆O₁₉**
Pregnane glycoside OI, 17795
- C₅₆H₈₆O₂₂**
3-*O*- α -*L*-Arabinofuranosyl-(1 \rightarrow 3)-[α -*L*-arabinofuranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin, 1553
- 3-*O*- α -*L*-Arabinofuranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl-21 β ,22 α -di-*O*-angeloylprotoaescigenin, 1559
- C₅₆H₈₈O₁₉**
Periplocoside B, 16945
- C₅₆H₈₈O₂₆**
Segetoside C, 19660
- C₅₆H₈₈O₂₉**
(25*R*)-3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-26-[[β -*D*-glucopyranosyl)oxy]-2 α -hydroxy-cholesta-5,17-diene-16,22-dione, 8748
- C₅₆H₉₀O₁₉**
Pregnane glycoside FI, 17791
- WilfosideC₁N, 22692

- C₅₆H₉₀O₂₀**
Pregnane glycoside GI, 17792
- C₅₆H₉₀O₂₅**
Ternstroemiaside B, 20981
- C₅₆H₉₀O₂₈**
Agamenoside F, 696
(25*R*)-3β-[(*O*-α-*L*-Arabinopyranosyl-(1→3))-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranosyl)oxy]-5α-spirostan-12-one, 1570
(25*R*)-3β-[(*O*-β-*D*-Glucopyranosyl-(1→3))-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranosyl)oxy]-5α-spirostan-12-one, 8661
(25*R*)-2α-Hydroxyspirost-5-en-3β-yl *O*-β-*D*-glucopyranosyl-(1→3)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside, 10722
(25*R*)-3β-[(*O*-β-*D*-Xylopyranosyl-(1→3))-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranosyl)oxy]-5α-spirostan-12-one, 22826
- C₅₆H₉₀O₂₉**
(25*R*)-2α,17α-Dihydroxyspirost-5-en-3β-yl *O*-β-*D*-glucopyranosyl-(1→3)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside, 6128
(25*R*)-2α,15β-Dihydroxyspirost-5-en-3β-yl *O*-β-*D*-glucopyranosyl-(1→3)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside, 6129
- C₅₆H₉₂O₂₂**
Lysimachoside, 13263
- C₅₆H₉₂O₂₄**
Glycoside H₁, 8829
Periplocoside H₁, 16950
- C₅₆H₉₂O₂₅**
Malonylginsenoside Rb₂, 13441
Malonylginsenoside Rc, 13442
Periplocoside H₂, 16951
Plocoside B, 17566
- C₅₆H₉₂O₂₆**
Dongnoside C, 6555
- C₅₆H₉₂O₂₇**
Polianthoside B, 17611
Trigofoenoside G, 21657
- C₅₆H₉₂O₂₈**
(25*R*)-5α-Spirostan-3β,6β-diol 3-*O*-{*O*-β-*D*-glucopyranosyl-(1→3)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[β-*D*-xylopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside}, 20210
- C₅₆H₉₂O₂₉**
Digitonin, 5524
Polianthoside D, 17613
- C₅₆H₉₄O₂₄**
Quinquenoside R₁, 18450
Yesanchinoside F, 22898
- C₅₆H₉₄O₂₈**
Protodesgalactotigonin, 17972
Uttroside B, 22286
- C₅₆H₁₀₁N₃O₁₈**
Polaramycin B, 17610
- C₅₇H₆₁O₃₄⁺**
Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)-β-*D*-glucopyranosyl)-β-*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)-β-*D*-glucopyranoside]-3'-*O*-[β-*D*-glucuronopyranoside], 5013
- C₅₇H₆₃O₃₁⁺**
Delphinidin-3,7-di-*O*-β-*D*-glucopyranoside-3',5'-di-*O*-(6-*O*-*p*-coumaroyl-β-*D*-glucopyranoside), 5019
Pigment 25, 17358
- C₅₇H₇₀O₃₂**
Tenuifoliolose K, 20949
- C₅₇H₇₂O₃₃**
Senegose D, 19719
- C₅₇H₈₂O₂₂**
Cynaphylloside F, 4561
- C₅₇H₈₄O₂₂**
Alpinoside B, 991
20*S*,22*R*,23*S*,24*R*-16β,23;22,25-Diepoxy-cycloartane-3β,23,24-triol 3-*O*-(6-*O*-*trans*-isoferyl-β-*D*-glucopyranosyl)-(1→2)-β-*D*-glucopyranosyl-(1→2)-β-*D*-xylopyranoside, 5488
- C₅₇H₈₈O₂₂**
3-*O*-α-*L*-Arabinofuranosyl-(1→3)-[β-*D*-galactopyranosyl-(1→2)]-β-*D*-glucuronopyranosyl-21β,22α-di-*O*-angeloylbarringtonenol C, 1554
Marsdeoreophiside B, 13577
- C₅₇H₈₈O₂₃**
3-*O*-α-*L*-Arabinofuranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→2)]-β-*D*-glucuronopyranosyl-21β,22α-di-*O*-angeloylprotoaescigenin, 1555
- C₅₇H₈₈O₂₅**
Assamsaponin A, 1915
Yiyeliangwanoside I, 22915
Yiyeliangwanoside III, 22916
- C₅₇H₈₈O₂₆**
Theasaponin E₃, 21285
Theasaponin E₆, 21288
- C₅₇H₈₈O₂₈**
Platyconic acid A lactone-28-[β-*D*-apiofuranosyl(1→3)-β-*D*-xylopyranosyl(1→4)-α-*L*-rhamnopyranosyl(1→2)-*L*-arabinopyranosyl] 3-*O*-β-*D*-glucopyranoside, 17538
- C₅₇H₉₀O₂₄**
Eupteleasaponin IV, 7625
- C₅₇H₉₀O₂₅**
Yemuoside I, 22883
Yemuoside YM₇, 22887
- C₅₇H₉₀O₂₇**
Ageratoside B₂, 734
- C₅₇H₉₂O₆**
α-Eleostearin, 6749
- C₅₇H₉₂O₂₃**
Taibaenoside VIII, 20619
- C₅₇H₉₂O₂₄**
Clematoside A', 3825
Scabioside F, 19446
- C₅₇H₉₂O₂₆**
Astersaponin G, 1927
(25*S*)-26-[(β-*D*-Glucopyranosyl)oxy]furosta-5,20(22)-dien-3β-yl *O*-α-*L*-rhamnopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→3)]-β-*D*-glucopyranoside, 8688
Hydrocotyloside VII, 9716
- C₅₇H₉₂O₂₇**
26-*O*-β-*D*-Glucopyranosyl-3β,26-dihydroxy-20,22-seco-25(*R*)-furost-5-en-20,22-dione-3-*O*-α-*L*-rhamnopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→4)-[α-*L*-rhamnopyranosyl-(1→2)]-β-*D*-glucopyranoside, 8623
Polygalacin D, 17629
Scillascilloside E₂, 19525
- C₅₇H₉₂O₂₈**
(23*S*)-3β-[(*O*-β-*D*-Apiofuranosyl-(1→2)-*O*-[β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→2)-α-*L*-arabinopyranosyl-(1→6)-β-*D*-glucopyranosyl)oxy]-17α,23-epoxy-28,29-dihydroxy-27-norlanost-8-en-24-one, 1509
Avenacoside B, 2032
16β-[[[(4*S*)-5-(β-*D*-Glucopyranosyloxy)-4-methyl-1-oxopentyl]oxy]-3β-[(*O*-α-*L*-rhamnopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→3)]-β-*D*-glucopyranosyl)oxy]pregn-5-en-20-one, 8707
(25*R*)-3β-[(*O*-β-*D*-Glucopyranosyl-(1→2)-*O*-[*O*-α-*L*-rhamnopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranosyl)oxy]-5α-spirostan-12-one, 8721
Platycodin D, 17532

- Woodwardinoside C, 22725
- C₅₇H₉₃NO₂₅**
Neohyacinthoside, 15408
- C₅₇H₉₃NO₂₉**
Esculeoside C, 7377
- C₅₇H₉₃NO₃₀**
Esculeoside D, 7378
- C₅₇H₉₄O₂₅**
6"-Malonylgypenoside V, 13446
- C₅₇H₉₄O₂₆**
6"-Malonylginsenoside Rd₁, 13444
- C₅₇H₉₄O₂₇**
Convallamarin, 4005
Dongnoside B, 6554
(25*R*)-3β-[(*O*-β-*D*-Glucopyranosyl-(1→2)-*O*-[*O*-*α*-*L*-rhamnopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranosyl)oxy]-5α-spirostan, 8722
Tigogenin-3-*O*-*α*-*L*-rhamnopyranosyl-(1→3)-β-*D*-glucopyranosyl(1→2)-[β-*D*-glucopyranosyl(1→3)]-β-*D*-glucopyranosyl(1→4)-β-*D*-galactopyranoside, 21386
Trigofoenoside G₁, 21658
- C₅₇H₉₄O₂₈**
(25*R*)-15α-Hydroxy-5α-spirostan-3β-yl *O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-*α*-*L*-rhamnopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-galactopyranoside, 10716
Macrostemonoside E, 13330
Parvifloside, 16682
Polianthoside C, 17612
- C₅₇H₉₄O₂₉**
(25*R*)-26-*O*-β-*D*-Glucopyranosyl-22-hydroxy-furost-5(6)-ene-3β,26-diol-3-*O*-β-*D*-glucopyranosyl(1→2)[β-*D*-glucopyranosyl(1→3)]-β-*D*-glucopyranosyl(1→4)-β-*D*-galactopyranoside, 8671
Polyfuroside, 17624
- C₅₇H₉₆O₁₀**
Longiside B, 12979
- C₅₇H₉₆O₂₇**
Asp-VII, 1908
- C₅₇H₉₆O₂₈**
Sarsaparilloside, 19389
- C₅₇H₉₆O₂₉**
Macrostemonoside B, 13327
- C₅₇H₉₆O₃₀**
Pentandroside F, 16882
Proto-iso-erubioside B, 17978
- C₅₇H₉₈O₆**
Glyceryl linolenate III, 8816
- C₅₇H₁₀₄O₆**
Triolein, 21984
- C₅₇H₁₀₄O₉**
Triricinolein, 22028
- C₅₇H₁₁₀O₆**
Stearin, 20281
- C₅₇H₁₁₄O₂**
Heptacosyl melissate, 9373
Heptatriacontanyl eicosanoate, 9412
- C₅₇H₁₁₇N₂O₇P**
Sphingomyelin, 20155
- C₅₈H₅₉O₃₆⁺**
Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeyl)-β-*D*-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)-β-*D*-galactopyranoside] -7-*O*-[6-*O*-(*trans*-caffeyl)-β-*D*-glucopyranoside], 5015
- C₅₈H₆₅O₃₁⁺**
Petunidin 3-*O*-(6-*O*-(4-*O*-(4-*O*-(6-*O*-feruloyl)-β-*D*-glucopyranosyl)-*E*-*p*-coumaroyl)-*α*-rhamnopyranosyl)-β-*D*-glucopyranoside)-5-β-*D*-glucopyranoside, 17026
- C₅₈H₇₂O₃₃**
Senegose K, 19725
Senegose M, 19727
Tenuifoliose C, 20942
Tenuifoliose E, 20944
- C₅₈H₇₄O₈**
Isoxuxuarine Fa, 11787
Isoxuxuarine Gβ, 11788
Xuxuarine Fa, 22811
- C₅₈H₇₆O₈**
7,8-Dihydroisoxuxuarine Fa, 5655
7,8-Dihydroisoxuxuarine G_α, 5656
- C₅₈H₈₄O₃**
Lutein-3-linolenate, 13133
- C₅₈H₈₆O₁₉**
Pregnane glycoside DI, 17789
WilfosideK₁N, 22694
- C₅₈H₈₆O₂₀**
Pregnane glycoside EI, 17790
- C₅₈H₈₈O₃**
Lutein oleic acid ester, 13134
- C₅₈H₈₈O₂₀**
Pregnane glycoside NI, 17794
- C₅₈H₈₈O₂₁**
12-*O*-Benzoyl-20-*O*-acetylsarcostin-3-*O*-β-*D*-thevetopyranosyl-(1→4)-β-*D*-cymaropyranosyl-(1→4)-β-*D*-cymaropyranosyl-(1→4)-β-*D*-cymaropyranoside, 2230
- C₅₈H₉₀O₂₂**
3-*O*-*α*-*L*-Rhamnopyranosyl-(1→3)-[β-*D*-galactopyranosyl-(1→2)]-β-*D*-glucuronopyranosyl-21β,22α-di-*O*-angeloylbarringtonenol C, 18702
- C₅₈H₉₂O₂₅**
Eupteleasaponin II, 7623
- C₅₈H₉₂O₂₆**
Yemuoside YM₈, 22888
- C₅₈H₉₂O₂₇**
Scillasaponin E, 19521
- C₅₈H₉₂O₂₉**
Methyl platyconate A, 14681
- C₅₈H₉₄O₂₅**
3β-[(*O*-β-*D*-Glucopyranosyl-(1→4)-*O*-β-*D*-ribo-
pyranosyl-(1→3)-*O*-*α*-*L*-rhamnopyranosyl-
(1→2)-*α*-*L*-arabinopyranosyl)oxy]olean-12-en-
28-oic acid *O*-β-*D*-glucopyranosyl ester, 8728
Helianthoside B, 9295
Oleanolic acid-3-*O*-β-*D*-glucopyranosyl(1→4)-
β-*D*-glucopyranosyl(1→4)-β-*D*-ribo-
pyranosyl(1→3)-*α*-*L*-rhamnopyranosyl(1→2)-*α*-*L*-arabi-
nopyranoside, 16055
Oleanolic acid-3-*O*-β-*D*-glucopyranosyl(1→4)-β-
D-glucopyranosyl(1→4)-β-*D*-xylopyranosyl
(1→3)-*α*-*L*-rhamnopyranosyl(1→2)-*α*-*L*-arabi-
nopyranoside, 16056
Scabiosaponin E, 19436
- C₅₈H₉₄O₂₆**
Fulvotomentoside A, 7995
Jububoside A, 11909
Jububoside A₁, 11910
Mukurozisaponin Y₁, 15036
Mukurozisaponin Y₂, 15037
Prosapogenin CP₁₀, 17949
Prosapogenin CP_{10α}, 17950
Scillascilloside E₁, 19524
- C₅₈H₉₄O₂₇**
Ardipusilloside II, 1627
Cyclamin, 4457
(23*S*)-17α,23-Epoxy-29-hydroxy-3β-[(*O*-*α*-*L*-
rhamnopyranosyl-(1→2)-*O*-[β-*D*-glucopyra-
nosyl-(1→3)]-*O*-β-*D*-glucopyranosyl-(1→2)-
α-*L*-arabinopyranosyl-(1→6)-β-*D*-glucopyra-
nosyl)oxy]-27-norlanost-8-en-24-one, 7134
- C₅₈H₉₄O₂₈**
Platycoside H, 17541
Scillanoside L₁, 19516
Soyasaponin A₄, 20124
- C₅₈H₉₄O₂₉**
Deapio platycodin D₃, 4800
Platycoside A, 17539
- C₅₈H₉₅NO₂₉**
Esculeoside A, 7376
Lycoperoside F, 13217
Lycoperoside G, 13218
- C₅₈H₉₆O₂₄**

- Capilliposide B, 3126
- C₅₈H₉₆O₂₆**
Methyl protodiosgenin tetraglycoside, 14699
- C₅₈H₉₆O₂₇**
(25S)-26-[(β -D-Glucopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranoside, 8704
- C₅₈H₉₆O₂₈**
Capilliposide C, 3127
Methyl parvifloside, 14653
Taccasteroside C, 20598
- C₅₈H₉₆O₂₉**
Polyfuroside PO₇, 17626
- C₅₈H₉₈O₂₆**
Ginsenoside Ra₁, 8420
Ginsenoside Ra₂, 8421
Notoginsenoside Fc, 15823
- C₅₈H₉₈O₂₉**
Macrostemonoside C, 13328
- C₅₈H₁₀₂O₃**
Ursa-12-ene-11-one-3-ol octocosate, 22262
- C₅₈H₁₀₄O₂**
Hancolupenol octacosanate, 9215
- C₅₉H₄₂O₃₄**
5-*O*-Galloylpunicacortein D, 8115
- C₅₉H₄₆O₂₆**
Procyanidin C₁-3',3''-di-*O*-gallate, 17894
- C₅₉H₆₇O₃₀⁺**
Malvidin 3-*O*-(6-*O*-(4-*O*-(4-*O*-(6-*O*-*E*-*p*-coumaroyl- β -D-glucopyranosyl)-*E*-*p*-coumaroyl)- α -rhamnosyl)- β -D-glucopyranoside)-5- β -D-glucopyranoside, 13459
- C₅₉H₆₇O₃₁⁺**
Malvidin 3-*O*-(6-*O*-(4-*O*-(4-*O*-(6-*O*-caffeoyl- β -D-glucopyranosyl)-*E*-*p*-coumaroyl)- α -rhamnosyl)- β -D-glucopyranoside)-5-*O*- β -D-glucopyranoside, 13458
- C₅₉H₇₂O₃₃**
Tenuifolioside I, 20947
Tenuifolioside J, 20948
- C₅₉H₇₄O₃₄**
Fallaxose E, 7713
Senegose B, 19717
Senegose C, 19718
Tenuifolioside P, 20954
- C₅₉H₈₈O₂₂**
Condurangoglycoside A₀, 3964
- C₅₉H₈₉NO₂₃**
12-*O*-Nicotinoyllineolon 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside, 15531
- C₅₉H₉₀O₄**
Ubiquinone 10, 22172
- C₅₉H₉₀O₂₂**
Condurangoglycoside C₀, 3965
- C₅₉H₉₀O₂₇**
Assamsaponin C, 1917
Theasaponin E₁, 21283
Theasaponin E₂, 21284
Theasaponin E₄, 21286
Theasaponin E₇, 21289
- C₅₉H₉₂O₂₆**
Floratheasaponin A, 7832
- C₅₉H₉₂O₂₇**
Assamsaponin D, 1918
Theasaponin, 21282
- C₅₉H₉₂O₂₉**
Ageratoside A₁, 728
Ageratoside A₃, 730
- C₅₉H₉₂O₃₁**
Lucilianoside E, 13060
- C₅₉H₉₂O₃₂S₂**
Colochiroside A, 3928
- C₅₉H₉₄O₂₅**
Maetenoside B, 13363
- C₅₉H₉₄O₂₆**
Berneuxia saponin A, 2313
Berneuxia saponin B, 2314
Clematibetoside B, 3820
- C₅₉H₉₄O₂₇**
Assamicin IV, 1914
(25S)-26-[(β -D-Glucopyranosyl)oxy]-22 α -methoxyfurosta-5,20(22)-dien-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]-6-*O*-acetyl- β -D-glucopyranoside, 8702
- C₅₉H₉₄O₂₈**
Maesasaponin I, 13351
- C₅₉H₉₄O₂₈**
Scillanoside L₂, 19517
Scillascilloside E₃, 19526
- C₅₉H₉₄O₂₉**
Methyl 2-*O*-methyl platycogenate A, 14604
Platycodin A, 17530
Platycodin C, 17531
Sophoraflavoside IV, 20092
- C₅₉H₉₆O₂₅**
Akeboside st_{in}, 819
Cussosaponin C, 4431
Raddeanin D, 18518
3 β -*O*-(α -Rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-lup-12-en-28-*O*-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester, 18692
- 3 β -*O*-(α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-olean-12-ene-28-*O*-(β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl) ester, 18733
- C₅₉H₉₆O₂₆**
Anemoside B₄, 1182
Begoniifolide A, 2211
Cussosaponin B, 4430
Cussosaponin E, 4433
3-*O*-[β -D-Glucopyranosyl-(1 \rightarrow 4)][α -L-rhamnopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl-hederagenin, 8723
Hederasaponin C, 9275
Japondipsaponin E₁, 11817
Jujuboside D, 11914
Kalopanax saponin C, 12118
Latifolioside F, 12552
Latifolioside G, 12553
Latifolioside H, 12554
Matesaponin 4, 13601
Pastuchoside D, 16701
3 β -*O*-(α -Rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl)-23-hydroxylup-12-en-28-*O*-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl)ester, 18690
3-*O*-{[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl}-22-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl]-3 β ,22 β ,24-trihydroxyolean-12-ene, 18700
Scabiosaponin F, 19437
- C₅₉H₉₆O₂₇**
Aradecoside D, 1601
3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranosyl)oxy]-23-hydroxyolean-12-en-28-oic acid *O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester, 8608
3 β -*O*-(β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)-hederagenin-28-*O*-(β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl)ester, 8716
Hydrocotyloside V, 9714
Jujuboside C, 11913
Leontoside D, 12644
Macranthoidin A, 13298
Pastuchoside C, 16700
Pulsatilioside B, 18196
Scabiosaponin I, 19440
Scabiosaponin J, 19441
Virgaureasaponin 1, 22526

- C₅₉H₉₆O₂₉**
Saikosaponin U, 19163
Saikosaponin V₂, 19166
Soyasaponin A₁, 20121
- C₅₉H₉₈O₂₆**
Sophoraflavosidel, 20089
- C₅₉H₉₈O₂₇**
20,23-Dihydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl)oxy]lupan-28-oic acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester, 6106
- C₅₉H₁₀₀O₂₆**
Yesaninoside I, 22901
- C₅₉H₁₀₀O₂₇**
Ginsenoside Ra₃, 8422
Notoginsenoside Fa, 15822
Notoginsenoside R₄, 15839
- C₆₀H₄₆O₂₄**
Parameritannin A₂, 16655
- C₆₀H₄₈O₂₄**
Epicatechin-(2 β \rightarrow *O* \rightarrow 7,4 β \rightarrow 8)epicatechin-(4 α \rightarrow 8)-catechin-(4 α \rightarrow 8)-epicatechin, 6861
Parameritannin A₁, 16654
- C₆₀H₅₀O₂₄**
Arecatannin A₂, 1656
- C₆₀H₅₂O₃₀**
Monochaetin, 14921
- C₆₀H₆₂O₂₄**
Gnemonoside K, 8876
- C₆₀H₆₃O₃₇⁺**
Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- β -D-glucopyranosyl)-6-*O*-(malonyl)- β -D-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- β -D-glucopyranoside]-3'-*O*-[β -D-glucuronopyranoside], 5014
- C₆₀H₆₉O₃₁⁺**
Malvidin 3-*O*-(6-*O*-(4-*O*-(4-*O*-(6-*O*-feruloyl)- β -D-glucopyranosyl)-*E*-*p*-coumaroyl)- α -rhamnopyranosyl)- β -D-glucopyranoside)-5- β -D-glucopyranoside, 13461
- C₆₀H₇₄O₃₄**
Reinioside J, 18612
Senegose J, 19724
Senegose L, 19726
Senegose N, 19728
Senegose O, 19729
Tenuifolioside B, 20941
Tenuifolioside D, 20943
- C₆₀H₇₈O₉**
Isoxuxuarine E β , 11786
- C₆₀H₈₀O₁₀**
7 α -Hydroxyisoxuxuarine E α , 10267
- C₆₀H₉₂O₂₈**
Assamsaponin I, 1920
- C₆₀H₉₄O₃₀**
Ageratoside A₂, 729
- C₆₀H₉₆O₂₇**
 α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-oleate-3- α -L-arabinofuranosyl (1 \rightarrow 4)-methyl-(β -D-glucuronopyranoside)uronate, 18712
- C₆₀H₉₈O₂₆**
Anhuienoside E, 1255
Colchiside B, 3914
3 β -[*O*- α -L-Rhamnopyranosyl-(1 \rightarrow 4)-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)-[*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -D-glucopyranosyl(1 \rightarrow 4)-*O*- β -D-glucuronopyranosyl]-16 α -hydroxy-13 β , 28-epoxyoleanane, 18734
- C₆₀H₉₈O₂₇**
Hydrocotyloside VI, 9715
3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl]-22-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-3 β ,22 β ,24-trihydroxyolean-12-ene, 18701
3 β ,21 β ,22 β ,24-Tetrahydroxyolean-12-en-3-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21-*O*- α -L-rhamnopyranoside, 21147
- C₆₀H₉₈O₂₈**
(25S)-26-[(β -D-Glucopyranosyl)oxy]-22 α -methoxyfurost-5-en-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 3)]-6-*O*-acetyl- β -D-glucopyranoside, 8703
- C₆₀H₉₈O₂₉**
Ternstroemiaside D, 20983
- C₆₀H₉₈O₃₀**
Agave cantala Agaveside A, 717
Aralia-saponin VIII, 1606
- C₆₀H₁₀₂O₂₆**
Gypenoside II, 9125
- C₆₀H₁₀₂O₂₇**
Gypenoside I, 9124
- C₆₀H₁₀₂O₂₈**
Ginsenoside Ra₀, 8419
Gypenoside XX, 9137
Quinquenoside V, 18451
- C₆₁H₇₄O₃₄**
Tenuifolioside H, 20946
- C₆₁H₇₆O₃₅**
Reinioside I, 18611
- Senegose A, 19716
Senegose E, 19720
Tenuifolioside O, 20953
- C₆₁H₉₂O₂₈**
Assamsaponin B, 1916
Theasaponin E₅, 21287
- C₆₁H₉₆O₂₇**
Tenacissoside J, 20930
- C₆₁H₉₆O₂₈**
Assamicin III, 1913
Maesasaponin II, 13352
Maesasaponin III, 13353
- C₆₁H₉₈O₂₁**
Symplocososide F, 20545
- C₆₁H₁₀₀O₂₃**
Periplocoside J, 16952
- C₆₁H₁₀₀O₃₂**
Chloromaloside E, 3563
Pentandroside G, 16883
- C₆₁H₁₀₀O₃₃**
Polianthoside E, 17614
- C₆₁H₁₀₂O₂₃**
Telosmoside A₁₃, 20924
- C₆₁H₁₀₂O₂₄**
Telosmoside A₁₂, 20923
- C₆₁H₁₀₂O₂₆**
Telosmoside A₅, 20916
- C₆₁H₁₀₂O₂₇**
Telosmoside A₃, 20914
- C₆₁H₁₀₂O₂₈**
Yesaninoside J, 22902
- C₆₁H₁₀₂O₃₂**
Polianthoside F, 17615
- C₆₂H₆₄O₂₀**
Epioritin-(4 β \rightarrow 6)-epioritin-(4 β \rightarrow 6)-epioritin-4 α -ol nona-*O*-methylether tetra-acetate, 6983
Epioritin-(4 β \rightarrow 6)-oritin-(4 α \rightarrow 6)-epioritin-4 α -ol nona-*O*-methylether tetra-acetate, 6987
Oritin-(4 β \rightarrow 6)-oritin-(4 α \rightarrow 6)-epioritin-4 α -ol nona-*O*-methylether tetra-acetate, 16198
- C₆₂H₇₆O₃₅**
Tenuifolioside A, 20940
- C₆₂H₉₀O₂₇**
Cynaphylloside H, 4563
- C₆₂H₉₄O₂₉**
Assamsaponin F, 1919
- C₆₂H₉₈O₄**
(14-Methyl-24-methylene-dihydroman-giferodiol)-14-methyl-24-methylene dihydromangiferonate, 14595
- C₆₂H₉₈O₂₈**
Maesasaponin IV₃, 13355
- C₆₂H₉₈O₃₁**

- (23R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione, 7138
- (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-ene-15,24-dione, 7139
- C₆₂H₉₈O₃₄**
(25R)-3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-26-[(β -D-glucopyranosyl)oxy]-2 α -hydroxycholesta-5,17-diene-16,22-dione, 8658
- C₆₂H₁₀₀O₂₄**
WilfosideC₁G, 22691
- C₆₂H₁₀₀O₂₉**
Ternstroemiaside E, 20984
- C₆₂H₁₀₀O₃₀**
Conyzasaponin A, 4015
Conyzasaponin N, 4024
Conyzasaponin P, 4026
- (23S)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl)oxy]-27-norlanost-8-en-24-one, 7140
- C₆₂H₁₀₀O₃₁**
Agavasaponin E, 712
- C₆₂H₁₀₀O₃₃**
Diuranthoside F, 6526
Diuranthoside G, 6527
(25R)-26-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxyfurosta-5,20(22)-dien-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside, 8693
- C₆₂H₁₀₀O₃₄**
(24S,25S)-24-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxyspirost-5-en-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside, 8698
- C₆₂H₁₀₀O₃₅**
3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-16 β -[[4R]-5-(β -D-glucopyranosyloxy)-4-methyl-1-oxopentyl]oxy]-2 α -hydroxypregn-5-en-20-one, 8659
- C₆₂H₁₀₂O₃₀**
Agave cantala Agaveside C, 719
Agave cantala Agaveside D, 720
- C₆₂H₁₀₂O₃₁**
Dongnoside A, 6553
- C₆₂H₁₀₄O₂₂**
Telosmoside A₁₀, 20921
- C₆₂H₁₀₄O₂₃**
Telosmoside A₁₁, 20922
- C₆₂H₁₀₄O₂₄**
Quinquenoside II, 18447
- C₆₂H₁₀₄O₃₃**
Polianthoside G, 17616
- C₆₃H₇₂O₃₃**
Paniculatonoid B, 16608
- C₆₃H₇₈O₃₆**
Tenuifoliolose N, 20952
- C₆₃H₈₈CoN₁₄O₁₄P**
Vitamin B₁₂, 22556
- C₆₃H₈₈O₂₂**
12-*O*-Benzoyl-19-benzoyloxydeacetylmetaplexigenin-3-*O*- β -D-thetopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside, 2232
- C₆₃H₉₄O₂₆**
Alpinoside C, 992
- C₆₃H₉₄O₂₇**
Alpinoside A, 990
- C₆₃H₉₈O₂₉**
Maesasaponin IV₂, 13354
PM-2004-70-458-4, 17579
Tubeimoside A, 22072
- C₆₃H₉₈O₃₀**
PM-2004-70-458-5, 17581
Tubeimoside B, 22073
- C₆₃H₉₈O₃₁**
Thladioside H₁, 21335
- C₆₃H₁₀₀O₂₃**
Symplocoside A, 20540
Symplocoside B, 20541
- C₆₃H₁₀₀O₂₈**
Maesasaponin V₃, 13357
- C₆₃H₁₀₀O₂₉**
Eupteleasaponin III, 7624
- C₆₃H₁₀₀O₃₁**
Scillasaponin F, 19522
- C₆₃H₁₀₀O₃₂**
Scillasaponin G, 19523
- C₆₃H₁₀₂O₂**
Malloprenyl linolenate, 13427
- C₆₃H₁₀₂O₁₁**
(2S)-1,2,6'-Tri-*O*-[(9Z,12Z,15Z)-octadeca-9,12,15-trienyl]-3-*O*- β -D-galactopyranosyl glycerol, 21983
- C₆₃H₁₀₂O₂₉**
Scabioside G, 19447
- C₆₃H₁₀₂O₃₀**
Conyzasaponin I, 4019
- C₆₃H₁₀₂O₃₁**
Conyzasaponin J, 4020
- C₆₃H₁₀₂O₃₂**
Polygalacin D₂, 17630
- C₆₃H₁₀₂O₃₃**
(25R)-3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-5 α -spirostan-12-one, 8653
- Platycodin D₂, 17533
Platycodin D₃, 17534
- C₆₃H₁₀₂O₃₄**
(25R)-3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl)oxy]-15 α -hydroxy-5 α -spirostan-12-one, 8654
- C₆₃H₁₀₄O₂₃**
Periplocoside F, 16949
- C₆₃H₁₀₄O₃₃**
(25R)-12 β -Hydroxy-5 α -spirostan-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside, 10719
- (25R)-15 α -Hydroxy-5 α -spirostan-3 β -yl *O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside, 10720
- C₆₃H₁₀₄O₃₄**
(25R)-26-[(β -D-Glucopyranosyl)oxy]-2 α -hydroxy-22 α -methoxyfurost-5-en-3 β -yl-*O*- β -D-glucopyranosyl-(1 \rightarrow 3)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside, 8695
- C₆₃H₁₀₆O₃₀**
Notoginsenoside Q, 15835
Notoginsenoside S, 15841

- C₆₃H₁₀₆O₃₅**
Capsicosin, 3144
Sativoside B₁, 19396
- C₆₄H₆₇O₄₁⁺**
Cyanidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- β -*D*-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)- β -*D*-galactopyranosyl]-7-*O*-[6-*O*-(*trans*-caffeoyl)- β -*D*-glucopyranoside]-3'-*O*-[β -*D*-glucuronopyranoside], 4436
- C₆₄H₆₇O₄₂⁺**
Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- β -*D*-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)- β -*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- β -*D*-gluco-pyranoside]-3'-*O*-[β -*D*-glucuronopyranoside], 5016
- C₆₄H₁₀₀O₂₈**
Maesasaponin VI₂, 13358
- C₆₄H₁₀₀O₂₉**
Maesasaponin V₂, 13356
- C₆₄H₁₀₀O₃₁**
PM-2004-70-458-6, 17582
Tubeimoside C, 22074
3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl-gypsogenin-28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-fucopyranoside, 22823
- C₆₄H₁₀₂O₃₀**
Yemuoside YM₉, 22889
- C₆₄H₁₀₂O₃₃**
(23*S*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-27-norlanost-8-ene-15,24-dione, 7137
- C₆₄H₁₀₄O₂₉**
Huzhangoside B, 9693
Huzhangoside C, 9694
3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl]oxy]olean-12-en-28-oic acid, 18714
3 β -[(*O*- β -*D*-Ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl]oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 18836
- C₆₄H₁₀₄O₃₀**
Asperosaponin F, 1890
3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl]oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 8747
- Helianthussaponin 2, 9297
Hookeroside A, 9632
Huzhangoside D, 9695
Sapindoside D, 19319
Scabiosaponin A, 19433
3-*O*-[β -*D*-Xylopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl (1 \rightarrow 4)][α -*L*-rhamnopyranosyl (1 \rightarrow 3)]- β -*D*-glucopyranosyl (1 \rightarrow 3)- α -*L*-rhamnopyranosyl (1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin, 22831
- C₆₄H₁₀₄O₃₁**
Scabiosaponin K, 19442
- C₆₄H₁₀₄O₃₂**
(23*R*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-27-norlanost-8-en-24-one, 7135
(23*S*)-17 α -Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-27-norlanost-8-en-24-one, 7136
- C₆₄H₁₀₄O₃₃**
Platycoside I, 17542
- C₆₄H₁₀₆O₃₁**
Jujuboside E, 11915
- C₆₄H₁₀₆O₃₂**
(25*S*)-26-[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-22 α -methoxyfurost-5-en-3 β -yl *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranoside, 8650
- C₆₄H₁₀₆O₃₃**
Taccasteroside B, 20597
- C₆₄H₁₀₈O₃₁**
Notoginsenoside D, 15821
Notoginsenoside T, 15842
- C₆₅H₈₂O₃₇**
Tenuifoliose M, 20951
- C₆₅H₉₂O₂₂**
Pregnane glycoside TI, 17797
- C₆₅H₉₂O₂₃**
Pregnane glycoside QI, 17796
- C₆₅H₉₂O₂₄**
12-*O*-Benzoyl-19-salicyloyloxy-20-*O*-acetylsarcostin 3-*O*- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside, 2269
- C₆₅H₉₈O₂₃**
Symplocososide E, 20544
- C₆₅H₁₀₂O₂₉**
Maesasaponin VI₃, 13359
- C₆₅H₁₀₄O₃₀**
Maetenoside A, 13362
- C₆₅H₁₀₄O₃₁**
Ilekidinoside F, 10976
- C₆₅H₁₀₄O₃₃**
(23*S*,25*R*)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]lanost-8-en-23,26-olide, 7133
- C₆₅H₁₀₄O₃₄**
2''-*O*-Acetylplatycodin D₂, 487
3''-*O*-Acetylplatycodin D₂, 488
- C₆₅H₁₀₆O₂₄**
Periplocoside E, 16948
- C₆₅H₁₀₆O₃₀**
Akeboside st_g, 820
Anhuenoside F, 1256
3 β -*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-lup-12-en-28-*O*-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester, 8718
3 β -[(*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl]oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 8720
Hederacolchiside E, 9257
- C₆₅H₁₀₆O₃₁**
3 β -*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-23-hydroxyolean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosylester, 8068
3 β -*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -rhamnopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-23-hydroxylup-12-en-28-*O*-(α -rhamnopyranosyl-(1 \rightarrow 4)- β -glucopyranosyl-(1 \rightarrow 6)- β -galactopyranosyl) ester, 8717
Hederacolchiside F, 9258
23-Hydroxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl]oxy]lup-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*-

- β*-D-glucopyranosyl-(1→6)-*β*-D-glucopyranosyl ester, 10674
 Matesaponin 5, 13602
 Patrinoside C, 16721
 3-O-2-L-Rhamnopyranosyl-(1→3)-*β*-D-glucopyranosyl-(1→3)-*α*-L-rhamnopyranosyl-(1→2)-*α*-L-arabinopyranosyl hederagenin 28-O-*β*-D-glucopyranosyl-(1→6)-*β*-D-glucopyranosyl ester, 18717
 Scabiosaponin G, 19438
C₆₅H₁₀₆O₃₂
 3-O-[*β*-D-Glucopyranosyl-(1→3)]-[*β*-D-glucopyranosyl-(1→2)]-*α*-L-arabinopyranosyl echinocystic acid 28-O-[*α*-L-rhamnopyranosyl-(1→4)-*β*-D-glucopyranosyl-(1→6)-*β*-D-glucopyranosyl] ester, 8639
 Macranthoidin B, 13299
 New triterpenoid glycoside, 15520
 Scabiosaponin H, 19439
 Ternstroemiaside F, 20985
C₆₆H₄₆O₂₁
 RidiculoflavonylchalconeA, 18846
 (4''',5'',7'-Trihydroxy-4',5,7''-trimethoxy-3,6''-biflavone)-3'''-O-4'''-(5,5'',7''-trihydroxy-3',3'',4'-trimethoxy-6-O-*β*,7-*α*-flavone-chalcone), 21853
C₆₆H₅₀O₂₀
 Taiwanhomoflavone C, 20627
C₆₆H₅₀O₃₀
 Procyanidin C₁-3',3'',3'''-tri-O-gallate, 17895
C₆₆H₆₉O₃₃⁺
 Cyanidin-3-O-[2-O-(6-O-E-p-coumaroyl-*β*-D-glucopyranosyl)]-{6-O-[4-O-(6-O-E-p-coumaroyl-*β*-D-glucopyranosyl)-E-caffeoyl]-*β*-D-glucopyranosyl}-5-O-*β*-D-glucopyranoside, 4437
 Delphinidin-3-O-*β*-D-glucopyranoside-7,3',5'-tri-O-(6-O-p-coumaroyl-*β*-glucopyranoside), 5026
C₆₆H₆₉O₃₅⁺
 Cyanidin-3-O-[2-O-(6-O-E-caffeoyl-*β*-D-glucopyranosyl)]-{6-O-[4-O-(6-O-E-3,5-dihydroxycinnamoyl-*β*-D-glucopyranosyl)-E-caffeoyl]-*β*-D-glucopyranosyl}-5-O-*β*-D-glucopyranoside, 4435
C₆₆H₉₄O₂₇
 3-O-[*β*-D-Galactopyranosyl-(1→2)-*β*-D-glucopyranosyl]quillaic acid-28-O-*α*-L-rhamnopyranosyl-(1→2)-3-O-acetyl-4-O-*cis*-p-methoxycinnamoyl *β*-D-fucopyranoside, 8060
 3-O-[*β*-D-Galactopyranosyl-(1→2)-*β*-D-glucopyranosyl]quillaic acid-28-O-*α*-L-rhamnopyranosyl-(1→2)-3-O-acetyl-4-O-*trans*-p-methoxycinnamoyl *β*-D-fucopyranoside, 8061
C₆₆H₁₀₂O₂₉
 Maesasaponin VII₁, 13360
C₆₆H₁₀₆O₂₃
 Symplocoside C, 20542
 Symplocoside D, 20543
C₆₆H₁₀₈O₂₄
 Periploside A, 16961
C₆₇H₈₄O₃₉
 Tenuifoliolose L, 20950
C₆₇H₁₀₄O₃₂
 Segetoside F, 19663
C₆₇H₁₀₄O₃₃
 3-O-*β*-D-Galactopyranosyl-(1→2)-*β*-D-glucopyranosyl-gypsogenin-28-O-*β*-D-xylopyranosyl-(1→4)-[*β*-D-6-O-acetylglucopyranosyl-(1→3)]-*α*-L-rhamnopyranosyl-(1→2)-*β*-D-fucopyranoside, 8058
C₆₇H₁₀₈O₃₄
 Conyzasaponin B, 4016
 Conyzasaponin M, 4023
 Conyzasaponin Q, 4027
C₆₇H₁₁₂O₂₉
 Telosmoside A₁₆, 20927
C₆₇H₁₁₂O₃₀
 Telosmoside A₁₈, 20929
C₆₈H₄₈O₄₄
 Oenothin B, 16011
 Sanguiin H₃, 19275
 Sanguiin H₁₀, 19282
C₆₈H₅₀O₄₄
 Nobotanin R, 15643
C₆₈H₅₆O₄₄
 Cornusiin A, 4063
C₆₈H₈₆O₃₉
 Tenuifoliolose F, 20945
C₆₈H₁₀₄O₃₃
 Segetoside H, 19665
C₆₈H₁₀₄O₃₄
 Segetoside I, 19666
C₆₈H₁₀₈O₂₆
 Periplocoside K, 16953
C₆₈H₁₁₀O₃₃
 Gleditsioside I, 8538
C₆₈H₁₁₀O₃₄
 Conyzasaponin C, 4017
C₆₈H₁₁₀O₃₅
 Conyzasaponin K, 4021
 Conyzasaponin O, 4025
C₆₈H₁₁₂O₃₇
 Agavasaponin H, 713
C₆₈H₁₁₄O₂₇
 Telosmoside A₁₄, 20925
C₆₈H₁₁₄O₂₈
 Telosmoside A₁₅, 20926
 Telosmoside A₁₇, 20928
C₆₈H₁₁₄O₃₈
 Trigoneoside Va, 21671
 Trigoneoside Vb, 21672
C₆₈H₁₃₄O₂
 Lycopanerol C₁, 13205
C₆₉H₈₂O₃₅
 Kaempferol-3-O-[*α*-L-rhamnopyranosyl (1→6)-{*α*-L-rhamnopyranosyl(1→3)}-(2-O-*trans*-p-coumaroyl)]-*β*-D-glucopyranoside-7-O-[*α*-L-rhamnopyranosyl(1→3)-*α*-L-rhamnopyranosyl(1→3)-(4-O-*trans*-p-coumaroyl)]-*α*-L-rhamnopyranoside, 12079
C₆₉H₈₂O₃₆
 Kaempferol-3-O-[*β*-D-glucopyranosyl (1→6)-{*α*-L-rhamnopyranosyl(1→3)}-(2-O-*trans*-p-coumaroyl)]-*β*-D-glucopyranoside-7-O-[*α*-L-rhamnopyranosyl(1→3)-*α*-L-rhamnopyranosyl(1→3)-(4-O-*cis*-p-coumaroyl)]-*α*-L-rhamnopyranoside, 12057
 Kaempferol-3-O-[*β*-D-glucopyranosyl (1→6)-{*α*-L-rhamnopyranosyl(1→3)}-(2-O-*trans*-p-coumaroyl)]-*β*-D-glucopyranoside-7-O-[*α*-L-rhamnopyranosyl(1→3)-*α*-L-rhamnopyranosyl(1→3)-(4-O-*trans*-p-coumaroyl)]-*α*-L-rhamnopyranoside, 12058
C₆₉H₁₀₀O₃₀
 Sinocrassuloside X, 19945
C₆₉H₁₀₆O₃₃
 Segetoside B, 19659
C₆₉H₁₀₆O₃₄
 Segetoside D, 19661
C₆₉H₁₀₈O₃₅
 3-O-*α*-L-Arabinopyranosyl-(1→2)-[*β*-D-galactopyranosyl-(1→3)]-*β*-D-glucuronopyranosyl-gypsogenin-28-O-*β*-D-xylopyranosyl-(1→3)-*β*-D-xylopyranosyl-(1→4)-*α*-L-rhamnopyranosyl-(1→2)-*β*-D-fucopyranoside, 1566
C₆₉H₁₁₂O₃₄
 Gleditsiasaponin E', 8529
 Hookeroside B, 9633
 Scabiosaponin B, 19434
C₆₉H₁₁₂O₃₆
 Conyzasaponin L, 4022
C₇₀H₁₀₄O₃₂
 Onjisaponin G, 16107
 Senegin II, 19715
C₇₀H₁₁₀O₃₂
 Segetoside G, 19664
C₇₀H₁₁₀O₃₆
 3-O-*α*-L-Arabinopyranosyl-(1→2)-[*β*-D-galacto-

- pyranosyl-(1→3)]-β-D-glucuronopyranosyl-gypsogenin-28-O-β-D-glucopyranosyl(1→3)-[β-D-xylopyranosyl-(1→4)]-α-L-rhamnopyranosyl-(1→2)-β-D-fucopyranoside, 1565
- Vacsegoside B, 22308
- C₇₀H₁₁₂O₂₆**
Periplocoside D, 16947
- C₇₀H₁₁₄O₃₄**
3β-[(O-β-D-Glucopyranosyl-(1→4)-O-β-D-ribo-
pyranosyl-(1→3)-O-α-L-rhamnopyranosyl-
(1→2)-α-L-arabinopyranosyl)oxy]olean-12-
en-28-oic acid O-α-L-rhamnopyranosyl-(1→4)-
-O-β-D-glucopyranosyl-(1→6)-β-D-glucopyra-
nosyl ester, 8729
- Helianthoside C, 9296
- 3β-[(O-α-L-Rhamnopyranosyl-(1→6)-O-β-D-
glucopyranosyl-(1→4)-O-β-D-glucopyranosyl-
(1→4)-O-β-D-ribo-
pyranosyl-(1→3)-O-α-L-
rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl-
oxy]olean-12-en-28-oic acid β-D-glucopyra-
nosyl ester, 18715
- C₇₀H₁₁₄O₃₅**
3β-[(O-β-D-Glucopyranosyl-(1→4)-O-β-D-ribo-
pyranosyl-(1→3)-O-α-L-rhamnopyranosyl-
(1→2)-α-L-arabinopyranosyl)oxy]-21α-hy-
droxyolean-12-en-28-oic acid O-α-L-rhamno-
pyranosyl-(1→4)-O-β-D-glucopyranosyl-
(1→6)-β-D-glucopyranosyl ester, 8727
- Patrinoside D, 16723
- Scabiosaponin C, 19435
- 3-O-[β-D-Xylopyranosyl(1→4)-β-D-glucopyra-
nosyl(1→4)]-α-L-rhamnopyranosyl(1→3)]-β-
D-glucopyranosyl(1→3)-α-L-rhamnopyranosyl-
(1→2)-α-L-arabinopyranosyl hederagenin-
28-O-β-D-glucopyranoside, 22832
- C₇₀H₁₁₆O₃₈**
Taccasteroside A, 20596
- C₇₀H₁₁₈O₃₈**
(2*R*)-3β-[(O-β-D-Glucopyranosyl-(1→3)-O-β-
D-glucopyranosyl-(1→2)-O-[O-α-L-rhamno-
pyranosyl-(1→4)-β-D-glucopyranosyl-
(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-
galactopyranosyl)oxy]-22ξ-methoxy-5α-
furostan-26-yl β-D-glucopyranoside, 8655
- C₇₀H₁₃₈O₂**
Lycoperol C₂, 13206
- C₇₁H₁₀₂O₃₁**
Sinocrassuloside VI, 19941
Sinocrassuloside VII, 19942
- C₇₁H₁₀₆O₃₃**
Onjisaponin E, 16105
- C₇₁H₁₁₆O₃₄**
Pastuchoside B, 16699
- C₇₁H₁₁₆O₃₅**
Pastuchoside A, 16698
- C₇₁H₁₁₆O₃₆**
28-O-β-D-Glucopyranosyl-(1→6)-β-D-gluco-
pyranosyl ester of 3-O-[β-D-glucopyranosyl-
(1→4)]-α-L-rhamnopyranosyl-(1→3)]-β-D-
glucopyranosyl-(1→3)-α-L-rhamnopyranosyl-
(1→2)-α-arabinopyranosyl-hederagenin, 8642
- 23-Hydroxy-3β-[(O-α-L-rhamnopyranosyl-
(1→2)-O-[O-β-D-glucopyranosyl-(1→4)-β-D-
glucopyranosyl-(1→4)]-α-L-arabinopyranosyl-
oxy]lup-20(29)-en-28-oic acid 28-O-α-L-
rhamnopyranosyl-(1→4)-O-β-D-glucopyra-
nosyl-(1→6)-β-D-glucopyranosyl ester, 10675
- C₇₂H₁₀₄O₃₁**
Sinocrassuloside VIII, 19943
Sinocrassuloside IX, 19944
- C₇₂H₁₀₆O₃₁**
3-O-[β-D-Galactopyranosyl-(1→2)-β-D-gluco-
nopyranosyl]-28-O-[β-D-glucopyranosyl-
(1→2)-α-L-rhamnopyranosyl-(1→2)-β-D-4-*O*-
trans-p-methoxycinnamoyl-fucopyranosyl]
quillaic acid, 8056
- C₇₂H₁₁₂O₃₄**
Segetoside E, 19662
- C₇₂H₁₁₂O₃₇**
Agrostemmasaponin 1, 765
- C₇₂H₁₁₂O₃₈**
Sinocrassuloside XI, 19946
- C₇₂H₁₁₄O₂₇**
Periplocoside A, 16944
- C₇₂H₁₁₆O₄**
Helenien, 9290
Physalien, 17238
- C₇₂H₁₄₂O₂**
Lycoperol C₃, 13207
- C₇₃H₁₁₆O₂₇**
Periplocoside C, 16963
- C₇₃H₁₁₈O₃₈**
Gleditsioside K, 8540
- C₇₄H₁₁₂O₃₄**
3-O-[β-D-3-*O-cis-p*-Coumaroyl-glucopyranosyl-
(1→3)]-β-D-glucopyranosyl-(1→2)]-α-L-ara-
binopyranosyl echinocystic acid 28-O-[α-L-
rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-
(1→6)-β-D-glucopyranosyl] ester, 4161
- 3-O-[β-D-3-*O-trans-p*-Coumaroyl-glucopyra-
nosyl-(1→3)]-β-D-glucopyranosyl-(1→2)]-α-
L-arabinopyranosyl echinocystic acid 28-O-
[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyra-
nosyl-(1→6)-β-D-glucopyranosyl] ester, 4162
- C₇₄H₁₂₀O₃₇**
Gleditsioside H, 8537
- C₇₄H₁₂₀O₃₈**
Gleditsiasaponin C', 8528
- C₇₄H₁₂₀O₃₉**
Gleditsioside J, 8539
- C₇₅H₅₂O₄₈**
Nobotanin A, 15641
- C₇₅H₅₄O₄₇**
Paeonianin A, 16520
Paeonianin B, 16521
Paeonianin C, 16522
Paeonianin D, 16523
- C₇₅H₅₄O₄₈**
Rugosin E, 19058
- C₇₅H₅₆O₄₈**
Cornusiin G, 4065
- C₇₅H₇₅O₃₅**
Delphinidin-3,7,3',5'-tetra-*O*-(6-*O-p*-coumaroyl-
β-glucopyranoside), 5031
- C₇₅H₈₁O₄₂⁺**
Lobelinin A, 12940
- C₇₅H₁₁₂O₃₅**
Onjisaponin B, 16104
- C₇₅H₁₁₂O₃₆**
Onjisaponin F, 16106
- C₇₆H₁₁₆O₃₄**
Protocrocin, 17971
- C₇₆H₁₂₄O₃₉**
3-O-[β-D-Xylopyranosyl(1→4)-β-D-glucopyra-
nosyl(1→4)]-α-L-rhamnopyranosyl(1→3)]-β-
D-glucopyranosyl(1→3)]-α-L-rhamnopyra-
nosyl(1→2)-α-L-arabinopyranosyl oleanolic
acid-28-O-β-D-glucopyranosyl(1→6)-β-D-
glucopyranoside, 22833
- C₇₆H₁₂₄O₄₀**
Asperosaponin H₁, 1891
28-O-β-D-Glucopyranosyl-(1→6)-β-D-gluco-
pyranosyl ester of 3-O-[β-D-xylopyranosyl-
(1→4)-β-D-glucopyranosyl-(1→4)]-α-L-rham-
nopyranosyl-(1→3)]-β-D-glucopyranosyl-
(1→3)-α-L-rhamnopyranosyl-(1→2)-α-ara-
binopyranosyl-hederagenin, 8643
- 3-O-[β-D-Xylopyranosyl(1→4)-β-D-gluco-
pyranosyl(1→4)]-α-L-rhamnopyranosyl(1→3)]-β-
D-glucopyranosyl(1→3)-α-L-rhamnopyranosyl-
(1→2)-α-L-arabinopyranosyl hederagenin-
28-O-β-D-glucopyranosyl(1→6)-β-D-gluco-
pyranoside, 22834
- C₇₈H₁₂₄O₃₅**
Gleditsioside A, 8530
- C₇₈H₁₂₄O₃₆**
Gleditsioside B, 8531
- C₇₈H₁₂₄O₃₇**
Gleditsioside Q, 8544

- C₇₉H₁₂₂O₄₃**
3-*O*-[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]quillaic acid-28-*O*-[α -*L*-arabinopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-[6-*O*-acetyl- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-4-*O*-acetyl- β -*D*-fucopyranoside, 8059
- C₇₉H₁₂₈O₃₀**
PM-2004-70-458-4a, 17580
- C₈₀H₁₂₀O₃₉**
Onjisaponin A, 16103
- C₈₀H₁₂₆O₄₄**
Gypsoside, 9184
- C₈₀H₁₃₀O₄₂**
Sapindoside E, 19320
- C₈₀H₁₅₈O₅**
Lycoperol D, 13208
- C₈₁H₁₃₂O₄₃**
Clematoside A, 3824
- C₈₂H₅₄O₅₂**
Agrimoniin, 759
Sanguin H₆, 19278
- C₈₂H₅₆O₅₂**
Gemin A, 8263
Heterophyllin B, 9469
Nobotanin F, 15642
Rugosin F, 19059
- C₈₂H₅₈O₅₂**
Coriariin A, 4053
Rugosin D, 19057
- C₈₂H₆₀O₅₂**
Phillyraeoidin A, 17144
- C₈₂H₁₃₄O₄₃**
3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-ribopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester, 18716
- C₈₄H₆₄O₁₈**
Vaticanol D, 22357
- C₈₄H₁₃₄O₄₁**
Gleditsioside D, 8533
- C₈₄H₁₃₄O₄₂**
Gleditsioside C, 8532
- C₈₄H₁₃₄O₄₃**
Julibroside J₂₀, 11934
- C₈₅H₁₃₀O₄₃**
Clematibetoside A, 3819
- C₈₅H₁₃₆O₄₂**
Julibroside J₂₆, 11940
- C₈₅H₁₃₆O₄₃**
Julibroside J₂₅, 11939
- C₈₇H₁₃₉NO₄₃**
Julibroside J₂₂, 11936
- C₈₇H₁₄₂O₄₈**
Clematoside B, 3826
- C₈₈H₁₃₈O₃₇**
Gleditsioside O, 8542
- C₈₈H₁₃₈O₃₈**
Gleditsioside N, 8541
- C₈₈H₁₄₀O₅₁**
Acutifoliside, 599
- C₈₈H₁₄₄O₄₈**
Clematoside C, 3827
- C₉₀H₇₄O₃₆**
[Epicatechin-(4 β \rightarrow 8)] 5-epicatechin, 6857
- C₉₄H₁₄₈O₄₂**
Gleditsioside F, 8535
Gleditsioside G, 8536
- C₉₄H₁₄₈O₄₃**
Gleditsiasaponin C, 8527
Gleditsioside E, 8534
- C₉₄H₁₄₈O₄₄**
Gleditsiasaponin B, 8526
- C₉₄H₁₄₈O₄₆**
Julibroside J₂₄, 11938
- C₉₅H₁₅₀O₄₆**
Julibroside J₂, 11918
Julibroside J₇, 11922
- C₉₆H₁₅₂O₄₆**
Julibroside J₂₇, 11941
- C₉₇H₁₅₃NO₄₆**
Julibroside J₆, 11921
- C₉₈H₁₅₅NO₄₆**
Avicin G, 2038
Julibroside J₁₈, 11933
- C₉₈H₁₅₅NO₄₇**
Avicin D, 2036
- C₁₀₀H₁₅₈O₄₉**
Julibroside J₂₁, 11935
- C₁₀₁H₁₆₀O₄₈**
Julibroside J₁₄, 11929
Julibroside J₁₅, 11930
- C₁₀₁H₁₆₀O₄₉**
Julibroside, 11917
Julibroside J₅, 11920
Julibroside J₉, 11924
Julibroside J₁₀, 11925
Julibroside J₁₁, 11926
Julibroside J₁₇, 11932
Julibroside J₂₃, 11937
- C₁₀₂H₇₂O₆₇**
Oenotherin T₁, 16012
- C₁₀₂H₁₆₂O₄₈**
Julibroside J₁₆, 11931
- C₁₀₂H₁₆₂O₄₉**
Julibroside J₈, 11923
- C₁₀₃H₁₆₀O₄₃**
Gleditsioside P, 8543
- C₁₀₃H₁₆₃NO₄₉**
Julibroside J₃, 11919
- C₁₀₄H₁₆₅NO₄₉**
Julibroside J₁₂, 11927
Julibroside J₁₃, 11928
- C₁₀₈H₂₁₂O₆**
Lycoperol B₁, 13202
- C₁₁₀H₂₁₆O₆**
Lycoperol B₂, 13203
- C₁₁₂H₂₂₀O₆**
Lycoperol B₃, 13204
- C₁₂₀H₂₃₆O₇**
Lycoperol F, 13210
Lycoperol G, 13211
- C₁₂₂H₂₃₂O₇**
Lycoperol E, 13209
- C₁₂₃H₈₆O₇₈**
Rugosin G, 19060
- C₁₆₄H₁₀₆O₁₀₄**
Sanguin H₁₁, 19283
- O₂S**
Sulfur dioxide, 20479

Compound Name Synonym Index

This index lists in alphabetical order all compound's synonym names contained in the bodies of compound entries. A equal sign (=) and compound code number (from 1 to 23033) follow the synonym name immediately for locating the compound in the encyclopedia. Following symbols in prefix are ineffective in ordering: *D*-, *L*-, *dl*, *R*-, *S*-, *E*-, *Z*-, *O*-, *N*-, *C*-, *H*-, *cis*-, *trans*-, *ent*-, *meso*-, *rel*-, *erythro*-, *threo*-, *sec*-, *chiro*-, *para*-, *exo*-, *m*-, *o*-, *p*-, *n*-, α -, β -, γ -, δ -, ϵ -, κ -, ξ -, ψ -, ω -, (+), (-), (\pm) etc., and: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, {, }, [,], (,), ,, ;, *, ', ", " , \rightarrow , etc.

A

- (*rel*-3*R*,5*R*,10*S*)-19(4 \rightarrow 3)-Abeo-4(18),8,11,13-abietatetraen-3-ol = 22577
(9*S*,13*S*,15*S*)-20-(10 \rightarrow 9)-Abeo-12 α -acetoxo-7-hydroxy-13,16-cycloabieta-1,5(10),7-trien-6,11,14-trione = 22754
(9*S*,13*S*,15*S*)-20-(10 \rightarrow 9)-Abeo-2 α ,12 α -diacetoxo-7-hydroxy-13,16-cycloabieta-5(10),7-dien-6,11,14-trione = 22753
17-(15 \rightarrow 6)-Abeo-2 α ,11-diacetoxo-16-*O*-isopropyl-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one = 22750
17-(15 \rightarrow 16)-Abeo-2 α ,11-diacetoxo-6,12,14,16-tetrahydroxyabieta-5,8,11,13-tetraen-7-one = 22749
19(4 \rightarrow 3)-Abeo-11,14-dihydroxy-12-methoxyabieta-8,11,13,15-tetraen-7-one = 4875
19(10 \rightarrow 9)Abeo-8 α ,9 β ,10 α -eupha-5,24-dien-3 β -ol = 1463
26(14 \rightarrow 8)Abeo-*D*:*B*-friedo-ursane-3 β ,16 α -dihydroxy-7 α ,14 α -epoxy-5(10)-ene = 17019
18-(13 \rightarrow 12 β)-Abeo-lanostene triterpenoid acid = 1136
20(10 \rightarrow 5)-Abeo-4,5-seco-5(10),6,8,11,13-podocarpapentaen-3-one = 10052
Abieforrestin = 11383
8,13-Abietadien-18-oic acid = 16572
8(14),13(15)-Abietadien-18-oic acid = 15333
7,13-Abietadien-18-oil acid = 10
8,11,13-Abietatrien-18-oic acid = 4873
8,11,13-Abietatrien-12-ol = 7764
Acacetin-7-*O*-glucoside = 21391
Acacetin 7-*O*-(6''- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside = 61
Acetaldehyde = 7419
3-Acetamino-6-isobutyl-2,5-dioxopiperazine = 4046
7 β -Acetate-*O*-taxinine A = 20800
Acetic acid amide = 109
Acetic acid methyl ester = 14111
Acetonylgeranin A = 17220
2-Acetyl-6-*C*- β -*D*-glucopyranosyl-7-hydroxy-5-methyl-chromone = 11205
12- α -Acetoxymoorastatin = 21448
8 β -(4'-Acetoxiangelyloxy)-2 α ,3 β -dihydroxy-6 β *H*,7 α *H*-germacra-1(10)*E*,4*E*,11(13)-triene-6,12-olide = 7549
8 β -(4'-Acetoxiangelyloxy)-2 α -hydroxy-6 β *H*,7 α *H*-germacra-1(10)-*E*,4*E*,11(13)-triene-6,12-olide = 7548
1 β -Acetoxo-9 α -benzoyloxy-2 β ,6 α -dnicotinoyloxy- β -dihydroagarofuran = 9470
4-Acetoxo-2,3-bis(3,4-methylene-dioxybenzyl)-butan-1-ol = 9343
2-Acetoxo-3-bornanol = 22620
2 α -Acetoxobrevifoliol = 20770
rel-(2*S*,5*R*,6*S*,7*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxo-18-butanoyloxy-18,19-epoxy-6,7-dihydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene = 3260
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxo-18-butanoyloxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene = 3258
12-Acetoxo-7 α -butoxyethoxyabieta-6 α -yl 6,7-dehydroabieta-8,11,13-trien-12-yl ether = 7888
cis-6 β -Acetoxo-3 α -(cinnamoyloxy)tropane = 7349
7 α -Acetoxo-3,4,15,16-diepoxy-cleroda-13(16),14-dien-20-al = 3251
(20*S*,24*S*)-16 β -Acetoxo-18,24,20,24-diepoxy-9,19-cyclanostane-3 β ,25-diol-3-*O*- β -*D*-xylopyranoside = 2205
(20*S*,24*S*)-16 β -Acetoxo-18,24,20,24-diepoxy-9,19-cyclanostane-3 β ,15 β ,25-triol-3-*O*- β -*D*-xylopyranoside = 2204
7 α -Acetoxo-15,16,12,20-diepoxy-20-hydroxy-cleroda-3,4,13(16),14-triene = 3250
7 α -Acetoxo-3,4,15,16-diepoxy-12-oxo-cleroda-13(16),14-dien-20-al = 3249
3 β -Acetoxo-11 β ,17-dihydroxy-*ent*-abieta-6(7),8(14),15(16)-triene = 13698
6 α -Acetoxo-7 β ,12-dihydroxy-8,11,13-abietatriene = 20461
15 β -Acetoxo-6 β ,13 α -dihydroxy-3 α ,20-epoxy-*ent*-kaur-16-en-1,7-dione = 12590
7 β -Acetoxo-4 β ,20*R*-dihydroxy-5 β ,6 β -epoxy-1-oxo-witha-2,24-dienolide = 302
(1*R*,3*S*,4*S*)-3-Acetoxo-1,4-dihydroxy-8-isobutyloxyeudesm-11(13)-en-6,12-olide = 21410
6 α -Acetoxo-7 β ,11-dihydroxy-12-methoxy-8,11,13-abietatriene = 20460
3 β -Acetoxo-6 β ,11 α -dihydroxy-16 α -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide = 20621
2 α -Acetoxo-3 α ,19 α -dihydroxy-olean-12-en-28-oic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 18850

- 3 β -Acetoxy-11 α ,23-dihydroxytaraxer-14-en-28-oic acid = 546
 20 β -Acetoxy-2 α ,3 β -dihydroxyurs-12-en-28-oic acid = 9074
 11 α -Acetoxyeffusanin D = 2116
 (20S*,24R*)-16 β -Acetoxy-20,24-epoxy-9,19-cyclolanostane-3 β ,12 α ,18,25-tetraol-3-*O*- β -D-xylopyranoside = 2195
 (20S*,24R*)-16 β -Acetoxy-20,24-epoxy-9,19-cyclolanostane-3 β ,12 β ,25-triol-3-*O*- β -D-xylopyranoside = 2197
 12 β -Acetoxy-24R,25-epoxy-3 β ,15 α -dihydroxy-16,23-dione-cycloart-7-ene 3-*O*- α -L-arabinopyranoside = 2730
 12 β -Acetoxy-24R,25-epoxy-3 β -hydroxy-16,23-dione-cycloart-7-ene 3-*O*- α -L-arabinopyranoside = 2731
rel-(2S,5R,6R,8S,9S,10R,18S,19R)-19-Acetoxy-18,19-epoxy-6-hydroxy-18-methoxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene = 3259
 (8R)-4 β -Acetoxy-3 β -[(*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-cymaropyranosyl)oxy]-14-oxo-5 α -15-(14 \rightarrow 8)-abeo-card-20(22)-dihydroenolide = 8007
 (8R)-4 β -Acetoxy-3 β -[(*O*- β -D-glucopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-cymaropyranosyl)oxy]-14-oxo-5 α -15-(14 \rightarrow 8)-abeo-card-20(22)-dihydroenolide = 8006
 (8R)-4 β -Acetoxy-3 β -[(*O*- β -D-glucopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-cymaopyranosyl)oxy]-14-oxo-5 α -15-(14 \rightarrow 8)-abeo-card-20(22)-dihydroenolide = 8008
 5 α -Acetoxy-goniothalamine oxide = 3505
 (*rel* 6S,7R,8S,9R)-6-Acetoxy-5(10),14-halimadien-7,13-diol = 22572
 (*rel* 6S,7R,8S,9R)-7-Acetoxy-5(10),14-halimadien-6,13-diol = 22573
 4,5-*cis*-4-Acetoxy-5-hydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one = 5338
 4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one = 5337
 3'(S)-Acetoxy-4'(S)-hydroxy-3',4'-dihydroseselin = 18283
 3 α -Acetoxy-4 α -hydroxy-4 β ,10 β -dimethyl-7 β -(methyl-1*E*-propenoate)-*trans*-decalin = 175
 4,5-*cis*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one = 430
 4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one = 5336
 3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid = 91
 3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid 28-*O*- α -L-rhamno-pyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester = 92
 16 β -Acetoxy-17-hydroxy-19-nor-*ent*-kauran-4 α -ol = 1328
 21 β -Acetoxy-22 β -hydroxy-3-oxours-12-en-28-al = 4041
 11-(2-Acetoxy-6-hydroxyphenyl)-1-(2,6-dihydroxy-4-methoxyphenyl)undecan-1-one = 1646
 11-(2-Acetoxy-6-hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)undecan-1-one = 1645
ent-17-Acetoxy-18-isobutyryloxy-16(α)-kauran-19-oic acid = 19878
ent-3 β -Acetoxy-kauran-16 β ,17-diol = 7959
 3 α -Acetoxy-16 β ,17-diol = 11967
 3 α -Acetoxy-16 β ,17-diol = 11967
 3 α -Acetoxy-16 β ,17-diol = 11967
 3 α -Acetoxy-16 β ,17-diol = 11967
 (24Z)-12 β -Acetoxy-16 β ,17-diol = 22168
 22 β -Acetoxy-16 β ,17-diol = 3026
 3 β -Acetoxy-9,19-cyclolanost-24(*E*)-en-26-oic acid = 462
 1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-tridecan-1-one = 436
 1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-undecan-1-one = 435
 4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one = 428
 4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one = 426
trans-4-Acetoxy-5-hydroxy-5-pentadecanoyl-2-cyclopenten-1-one = 434
cis-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one = 432
trans-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one = 433
 6 β -Acetoxy-2 α ,3 β ,5 β ,14 β ,16 α -pentahydroxygrayanane = 18808
 6 β -Acetoxy-2 α ,3 β ,5 β ,14 β ,16 α -pentahydroxygrayan-10(20)-ene = 18809
 1 β -Acetoxy-2 β ,6 α ,9 α -trifuroxydihydro- β -agarofuran = 16167
 5-Acetoxy-2,6,8-trimethylchromone 7-*O*- β -D-glucopyranoside = 22216
 3 β -Acetoxy-28-nor-lup-12,17-dien-16 α -ol = 12244
 15 α -Acetoxy-3-oxo-24-methylenelanosta-7,9(11)-dien-21-oic acid = 7859
 19-Acetoxytaxagifine = 20790
 6 β -Acetoxy-3 β ,8 β ,12 β ,14 β -tetrahydroxybufa-4,20,22-trienolide = 10693
 12 β -Acetoxy-3 β ,15 α ,24R,25-tetrahydroxy-16,23-dione-cycloart-7-ene 3-*O*- α -L-arabinopyranoside = 2729
 23R-Acetoxytomatine = 13214
 11-Acetoxy-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one = 3920
 11 α -Acetoxy-6 β ,7 β ,15 β -trihydroxy-7 α ,20-epoxy-entkaur-16-ene = 11401
 3 β -Acetoxy-6 α ,15 β ,17-trihydroxy-11 β ,16 β -epoxy-*ent*-kaurane = 13695
 28-Acetoxy-6 β ,21 β ,22 β -trihydroxy-3-oxours-12-ene = 4044
 1R,3R,5S,6R-6-Acetoxy-3-(3',4',5'-trimethoxybenzoyloxy)tropane = 7347
 (*rel* 3S,5S,8R,9R,10S)-3-Acetoxy-14,15,16-trinor-13,9-labdanolide = 22567
 2-Acetyl-2-deoxy-D-glucose = 402
 26-Acetyl-3 β ,16 α -dihydroxy-cholest-5-en-22-one 3-*O*- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside = 41
 28-*O*-Acetyl-21-*O*-(4-*O*-angeloyl)-6-deoxy- β -glucopyranosyl-3-*O*-[β -glucopyranosyl(1 \rightarrow 2)-*O*-[β -glucopyranosyl(1 \rightarrow 4)]]- β -glucuronopyranosyl] protoaescigenin = 1913
 16-*O*-Acetyl-21-*O*-angeloyltheasapogenol E 3-*O*- β -D-galactopyranosyl(1 \rightarrow 2)-[β -D-xylopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosiduronic acid = 21286
 2-Acetyl-4-chloro-1,8-dihydroxy-3-methylnaphthalene-8-*O*- β -D-glucopyranoside = 16714
O-Acetylcholine = 351
 25-*O*-Acetylcimigenol-3-*O*- β -D-(2-acetyl)xylopyranoside = 20110
 6-*O*-(2"-*O*-Acetyl-3"-*O*-cinnamoyl-4"-*O*-*p*-methoxycinnamoyl- α -L-rhamnopyranosyl)catalpol = 19571
O-Acetyl columbianetin = 3937
 10-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A = 20757
 13-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A = 20755
 5,10,13-Acetyl-10-debenzoyl brevifoliol = 21533
 1-*O*-Acetyl-9-*O*-demethylpluviine = 472
 25-*O*-Acetyl-7,8-didehydrocimigenol 3-*O*- β -D-xylopyranoside = 352
 2-Acetyl-1,8-dihydroxy-3-methyl naphthalene = 15489
 2-*O*-Acetyl-3,4-di-*O*-(*E*)-*p*-methoxycinnamoyl- α -L-rhamnopyranoside = 2709
 3-*O*-Acetyl-2-*O*-feruloyl- α -L-rhamnopyranoside = 15618
 4-*O*-Acetyl-2-*O*-feruloyl- α -L-rhamnopyranoside = 15619
 6'-Acetyl- β -D-glucopyranosylidideroside = 376
 6 α -*O*-(6-*O*-Acetyl- β -D-glucopyranosyl)-15,16-dihydroxycleroda-3,13(14)-dien = 19213
 6 α -*O*-(6-*O*-Acetyl- β -D-glucopyranosyl)-15,16-epoxycleroda-3,13(16),14-trien = 19215
 6-*O*-[6-*O*-Acetyl- β -D-glucopyranosyl]-20-*O*-(β -D-glucopyranosyl)-20(*S*)-protopanaxatriol = 22896
 (22S)-16 β -[(6-*O*-Acetyl- β -D-glucopyranosyl)oxy]-22-hydroxy-3 β -[(*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]]- β -D-glucopyranosyl]oxy]cholest-5-en-12-one = 20229
 6 α -*O*-(6-*O*-Acetyl- β -D-glucopyranosyl)-15,16,18-trihydroxy-cleroda-3,13(14)-dien = 19214

- Acetylgomisin O = 19044
8-*O*-Acetylharpagide = 409
8-*O*-Acetylharpagide-aglucone-1-*O*- β -*D*-ribohexo-3-ulopyranoside = 356
6-Acetyl-7-hydroxy-2,2-dimethyl-2*H*-1-benzopyran = 7592
6-Acetyl-5-hydroxy-4-methyl coumarin = 12903
24-*O*-Acetyl-isodahurinol-3-*O*- β -*D*-(2-acetyl)xylopyranoside = 20111
24-*O*-Acetylisodahurinol-3-*O*- β -*D*-xylopyranoside = 3666
7-Acetyl kamebakaurin = 3953
14-Acetyl kamebakaurin = 3952
7-Acetyl kamebanin = 3951
14-Acetyl kamebanin = 3950
6'-*O*-Acetylmartynoside = 22662
3-*O*-Acetyl-2-*O*-*p*-methoxycinnamoyl- α (β)-*L*-rhamnopyranose = 15621
2-*O*-Acetyl-3-*O*-(*E*)-*p*-methoxycinnamoyl- α -*L*-rhamnopyranoside = 2710
2-*O*-Acetyl-3-*O*-(*Z*)-*p*-methoxycinnamoyl- α -*L*-rhamnopyranoside = 2711
2-Acetyl-3-methyl-6-carboxy-1,8-dihydroxynaphthalene-8-*O*- β -*D*-glucopyranoside = 19066
2-Acetyl-3-methyl-1,8-dihydroxynaphthalene-8-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3) β -*D*-glucopyranoside = 16195
3-*O*-[2-Acetyl-3-*O*-methyl- β -*D*-fucopyranosyl-(1 \rightarrow 4)-2,6-dideoxy-3-*O*-methyl- β -*D*-ribo-hexopyranoside] 20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-3-*O*-methyl- β -*D*-fucopyranoside] = 17566
3-*O*-[4-*O*-Acetyl-3-*O*-methyl- β -*D*-fucopyranosyl-(1 \rightarrow 4)-2,6-dideoxy-3-*O*-methyl- β -*D*-ribo-hexopyranoside] 20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-3-*O*-methyl- β -*D*-fucopyranoside] = 8829
14-*O*-Acetylneoline = 2739
3 β -Acetyloleanolic acid = 266
7-(Acetyloxy)-*O*²-furanoyl-*O*²-deacetyl-7-deoxo-evonine = 10908
7-(Acetyloxy)-*O*²-nicotinoyl-*O*²-deacetyl-*O*⁵-benzoyl-*O*⁵-deacetyl-7-deoxo-evonine = 10906
6 β -Acetyloxy-3 β ,5 β ,10 α ,14 β ,16 α -pentahydroxygrayanane = 18810
13-*O*-Acetylphorbol-20-(9*Z*,12*Z*-octadecadienoate) = 484
2''-*O*-Acetyl platycodin D = 17530
3''-*O*-Acetyl platycodin D = 17531
Acetylradbosin B = 393
1-*O*-[2-*O*-Acetyl- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,6*E*)-farnesol = 4230
1-*O*-[3-*O*-Acetyl- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-(2*E*,6*E*)-farnesol = 4229
O-Acetylrutaevin = 19082
2'-*O*-Acetylsalsolide C = 20531
3'-*O*-Acetylsalsolide C = 20530
1-[6-(3-Acetyl-2,4,6-trihydroxy-5-methyl-benzyl)-5,7-dihydroxy-2,2-dimethyl-2*H*-chromen-8-yl]-2-methyl-butan-1-one = 13434
Aconitane-13,14,15-trihydroxyl,20-ethyl-1,6,8,16-tetramethoxy-4-(methoxymethyl)-14-benzoate(1 α ,6 α ,14 α ,15 α ,16 β) = 15418
Acorodin = 2435
3 β -Acetyloxypitropane = 3960
Adaptinol = 9290
Adenosine = 618
Adenosine, *N*-[(5-hydroxy-2-pyridinyl)methyl] = 1039
Aesculetin dimethylether = 19540
Aethalic acid = 9486
Afaxin = 18656
Afromosin 7-*O*-[α -rhamnopyranosyl-(1 \rightarrow 6)]- β -glucopyranoside = 5225
Aglafolin = 14714
AH1 = 707
AH1a = 21030
AH2 = 11199
AH2a = 21131
AH2b = 21121
AH16 = 17114
AH23 = 21120
AHb₁ = 13999
Akebiasaponin P_D = 19316
Akebiasaponin P_G = 19317
Aknadinine = 9447
 β -Alanil-*L*-histidine = 3205
Albanin F = 12385
Albanin G = 12386
Albanol = 15044
Alcapton = 9608
6-Aldehyde-isoophiopogonone A = 875
(+)-Alismol = 888
Alisol F 24-acetate = 902
Alkylresorcinol B = 2380
Alleoside A = 9335
L-Alloisoleucine = 935
26-*O*- β -*D*-Allopyranosyl-(16*S*,20*S*,22*S*)-16 β ,22-epoxy-16 α -methoxy-3 β ,26-dihydroxy-cycloartan-24-one-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 1544
4-Allylcatechol = 955
rel-(7*S*,8*S*,1'*R*,3'*S*,4'*R*)-1'-Allyl-7-(3,4-dimethoxyphenyl)-4'-hydroxy-5'-methoxy-8-methyl-2'-oxobicyclo[3.2.1]oct-5'-ene = 9208
4-Allyl-2,6-dimethoxyphenol cinnamate = 5504
4-Allyl-2-methoxyphenol = 7521
4-Allylphenol = 3488
4-Allylpyrocatechol = 955
Allyl sulphide = 953
5-Allyl-2,2',5'-trihydroxybiphenyl = 18533
Alspopicalamine = 18303
Amarin = 4317
Amarylline = 13241
Amethystoidin A = 6929
N-Amidinosarcosine = 4221
4-Aminobenzenesulfonic acid = 20467
10-Amino-2,4-dimethoxyphenanthrene-1-carboxylic acid lactam = 8937
 α -Amino-3,5-dioxo-1,2,4-oxadiazolidine-2-propanoic acid = 18452
Aminoethane = 7420
Aminoethanoic acid = 8817
2-Aminoethanol = 7390
3-Amino-5-ethenyl-5-hydroxy-2-cyclopenten-1-one = 15207
3-(2-Aminoethyl)indole = 22058
4-(2-Aminoethyl)pyrocatechol = 6559
(*R*)-4-(2-Amino-1-hydroxyethyl)-1,2-benzenediol = 15708
2-Amino-4-hydroxy-pteridine-6-carboxylic acid = 18530

- 2-Amino-3-(3-indolyl)propanoic acid = 22060
 2-Amino-2-methylpropionic acid = 1055
 2-Amino-4-(methylthio)butanoic acid = 13823
 2-Amino-3-phenylpropanoic acid = 17093
 3-Aminopregna-5,17(20)-diene-2,16-diol = 12345
 2-Amino-4,7-pteridinediol = 11784
 6-Amino-4,5,9-trimethoxyoxoisoaporphine = 4690
 L-(−)-2-Amino-3-ureidopropionic acid = 862
 2-Amino-5-ureidovaleric acid = 3774
 Amyl ethyl ketone = 15979
 δ-Myrone = 1108
 Anacarol = 3188
 Anacrotine = 4266
 Anaprel = 18635
 Anchoic acid = 2056
 Andrographoside = 1158
 Anethol 2-methyl-butyrate = 17925
 16-Angeloyl-21-acetylprotoaescigenin 3-O-[β-D-glucopyranosyl (1→2)]
 [β-D-glucopyranosyl (1→4)]-β-D-glucopyranosiduronic acid = 7365
 21-O-Angeloyl-22-O-acetylprotoaescigenin-3-O-[β-D-glucopyranosyl(1→2)]
 [β-D-glucopyranosyl(1→4)]-β-D-glucopyranosiduronic acid = 660
 21-O-Angeloyl-28-O-acetylprotoaescigenin-3-O-[β-D-glucopyranosyl(1→2)]
 [β-D-glucopyranosyl(1→4)]-β-D-glucopyranosiduronic acid = 11417
 21-O-(4-O-Angeloyl)-6-deoxy-β-glucopyranosyl-3-O-[β-glucopyranosyl(1→2)-
 O-[β-glucopyranosyl(1→4)]-β-glucuronopyranosyl]protoaescigenin = 1914
 8-Angeloyloxy-1α-hydroxy-3α,4α-epoxy-5α,7αH-10(14),11(13)-guaiadien-
 12,6α-olide = 7195
 22-Angeloylprotoaescigenin 3-O-[β-D-glucopyranosyl (1→2)] [β-D-glucopyra-
 nosyl (1→4)]-β-D-glucopyranosiduronic acid = 7364
 21-O-Angeloyltheasa-21-O-angeloyltheasapogenol E 3-O-β-D-galactopyra-
 nosyl(1→2)[β-D-xylopyranosyl(1→2)-α-L-arabinopyranosyl (1→3)]-
 β-D-glucopyranosiduronic acid = 21285
 8β-Angelyloxy-4α-hydroxy-14-oxo-5αH,6βH,7αH-guai-2,10(14),11(13)-
 triene-6,12-olide = 7543
 8β-Angelyloxy-3β,4β,14-trihydroxy-5αH,6βH,7αH-guai-1(10),11(13)-diene-
 6,12-olide = 7540
 Anhydrobyakangelicin = 11301
 25-Anhydrocimicigenol-3-O-β-D-xylopyranoside-(23R,24S) = 3672
 Anhydroicaritin 3-O-β-D-(6-acetyl) glucopyranosyl-(1→3)-α-L-(4-acetyl)
 rhamnopyranoside = 12272
 Anhydroicaritin 3-O-β-D-(2,6-diacetyl)glucopyranosyl-(1→3)-α-L-(4-acet-
 yl)rhamnopyranoside-7-O-β-D-glucopyranosyl = 12273
 Anhydroicaritin-3-O-α-rhamnoside = 2138
 Anhydromarmesin = 11630
 2-Anilino-1,4-naphthoquinone = 13151
 Anisic ketone = 1289
 Annonacinone = 1315
 cis-Annonacinone = 1316
 Annonin I = 20240
 Anol tiglolate = 17926
 (−)-Anonaine = 1348
 9,10-Anthracenedione = 1367
 9-Anthracenol = 1365
 Anticancer Alkaloid PMV70P691-001 = 6322
 Anticancer Alkaloid PMV70P691-002 = 21968
 Anticancer Benzenoid PMV70P691-003 = 6103
 Anticancer Benzofuran PMV70P691-006 = 5086
 Anticancer Benzofuran PMV70P691-65 = 14961
 Anticancer Benzofuran PMV70P691-66 = 14962
 Anticancer Benzofuran PMV70P691-67 = 14964
 Anticancer Cyclopenta[b] Benzofuran PMV70P691-71 = 14714
 Anticancer Diarylheptanoid PMV70P691-72 = 2468
 Anticancer Flavonoid PMV70P691-016 = 6228
 Anticancer Flavonoid PMV70P691-017 = 6246
 Anticancer Flavonoid PMV70P691-019 = 10430
 Anticancer Flavonoid PMV70P691-020 = 8262
 Anticancer Flavonoid PMV70P691-021 = 10506
 Anticancer Flavonoid PMV70P691-023 = 14075
 Anticancer Flavonoid PMV70P691-102 = 14074
 Anticancer Flavonoid PMV70P691-112 = 1402
 Anticancer Flavonoid PMV70P691-113 = 21151
 Anticancer Flavonoid PMV70P691-115 = 21918
 Anticancer Flavonoid PMV70P691-79 = 2630
 Anticancer Flavonoid PMV70P691-80 = 2635
 Anticancer Flavonoid PMV70P691-81 = 3071
 Anticancer Flavonoid PMV70P691-90 = 7485
 Anticancer Flavonoid PMV70P691-99 = 12681
 Anticancer Lignan PMV70P691-027 = 17342
 Anticancer Lignan PMV70P691-125 = 14106
 Anticancer Monoterpene PMV70P691-127 = 12953
 Anticancer Sesquiterpene Lactone PMV70P691-037 = 21410
 Anticancer Sesquiterpene PMV70P691-133 = 240
 Anticancer Stilbenoid PMV70P691-140 = 11672
 Anticancer Stilbenoid PMV70P691-144 = 18644
 Antofine = 5055
 Aoibaclin = 12214
 Aphanamixis grandifolia = 1473
 ent-Apigeniflavan-(2α→7,4α→8)-epiafzelechin = 13402
 Apigenin-4',7-dimethyl ether = 10024
 Apigenin-6-C-β-D-glucopyranoside = 11773
 Apigenin-8-C-β-D-glucopyranoside = 22581
 Apigenin-6-C-[(6-O-p-hydroxybenzoyl)-β-D-glucopyranosyl(1→2)-β-D-glu-
 copyranside = 4187
 Apigenin-5-O-α-L-rhamnosyl-(1→4)-6"-acetyl-β-D-glucoside = 3035
 Apigenin trimethyl ether = 21913
 Apigenside = 1492
 3-O-β-D-Apiofuranosyl-(1→3)-α-L-arabinopyranosyl-(1→3)-[β-D-glucopyra-
 nosyl-(1→2)]-β-D-glucopyranosyl-oleanolic acid = 17690
 3-O-β-D-Apiofuranosyl-(1→3)-β-D-galactopyranosyl-(1→3)-[β-D-
 glucopyranosyl-(1→2)]-α-L-arabinopyranosyl-oleanolic acid =
 17694
 3-O-β-D-Apiofuranosyl-(1→3)-β-D-galactopyranosyl-(1→3)-[β-D-glucopyra-
 nosyl-(1→2)]-β-D-glucopyranosyl-oleanolic acid = 17691
 3β-[(O-β-D-Apiofuranosyl-(1→2)-O-β-D-glucopyranosyl-(1→2)-O-α-L-
 arabinopyranosyl-(1→6)-β-D-glucopyranosyl)oxy]-28,29-dihydroxy-
 24,25,26,27-tetranorlanost-8-en-17α,23-olide = 13058

- 3-*O*- β -*D*-Apiofuranosyl-(1 \rightarrow 3)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-oleanolic acid = 17689
- 4-[4 β -*O*- β -*D*-Apiofuranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranosyl-2,6,6-trimethyl-1-cyclohexen-1-yl]-butan-2-one = 4366
- 25-*O*- β -*D*-Apiofuranosyl(1 \rightarrow 4)- β -*D*-xylopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl 1 α ,3 β ,7 β ,24(5),25-pentahydroxycycloartane = 15198
- Apocynamarin = 20397
- Aptinol = 9290
- Aquilide A = 18098
- Aquillochin = 3831
- D*-Arabinitol = 1596
- 3-*O*-[α -*L*-Arabinofuranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl-jujubogenin = 2083
- (23*S*,24*S*,25*R*)-3 β -[(*O*- α -*L*-Arabinofuranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 3))-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-17 α ,23-epoxy-24,29-dihydroxylanost-8-en-23,26-olide = 19523
- (23*S*,25*R*)-3 β -[(*O*- α -*L*-Arabinofuranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 3))-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-17 α ,23-epoxy-29-hydroxylanost-8-en-23,26-olide = 19522
- 3-*O*-[α -*L*-Arabinofuranosyl (1 \rightarrow 4)-6'-*O*-*n*-butyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside = 20613
- 3-*O*-[α -*L*-Arabinofuranosyl-(1 \rightarrow 4)-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside = 20614
- 3 β -[(*O*- α -*L*-Arabinofuranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 3))-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-29-hydroxy-15-oxo-24,25,26,27-tetranorlanost-8-en-17 α ,23-olide = 13060
- 3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 4)-[2-*O*-acetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20534
- 4-*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 2''')- β -*D*-apiofuranosyldiphyllin = 17872
- 3-*O*- α -*L*-Arabinopyranosyl-3 β ,23-dihydroxy-lup-20(29)-en-28-oic acid = 18192
- 3-*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 3)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl-oleanolic acid = 17692
- 3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-21-*O*-acetyl-22-*O*-acetyl-3 β ,16 α ,21 β ,22 α ,28-pentahydroxyolean-12-ene = 9716
- 3-*O*- α -[*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-22-*O*-acetyl-21-*O*-(2-methylbuta-noyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene = 9715
- 3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 6)]-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropa-noyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene = 9714
- 3-*O*-[α -*L*-Arabinopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20533
- 3-*O*- α -*L*-Arabinopyranosyl hederagenin 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 818
- 3-*O*- α -*L*-Arabinopyranosyl-16 α -hydroxy-22 α -acetoxysaikogenin E = 17961
- 3-*O*- α -*L*-Arabinopyranosyl ilexosapogenin A 28- β -*D*-glucopyranosyl ester = 18540
- (23*S*,25*R*)-3 β -[(*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 3))-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-17 α ,23-epoxy-29-hydroxylanost-8-en-23,26-olide = 19521
- 3 β -[(*O*- α -*L*-Arabinopyranosyl-(1 \rightarrow 3))-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2))-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]oxy]-29-hydroxy-15-oxo-24,25,26,27-tetranorlanost-8-en-17 α ,23-olide = 13059
- 3-*O*- α -*L*-Arabinopyranosyl saikogenin F = 17962
- 3-*O*- α -*L*-Arabinopyranosyl-3 β ,19 α ,23-trihydroxyursa-12,20(30)-dien-28-oic acid 28- β -*D*-glucopyranosyl ester = 18535
- 3-*O*- α -*L*-Arabinopyranosyl(1 \rightarrow 3)-(6'-butyl ester)- β -*D*-glucopyranosyl-oleanolic acid-28-*O*- β -*D*-glucopyranoside = 9358
- Araregai toxin = 21211
- Ardisin = 1643
- Aristolactam C *N*-glucoside = 1694
- Aristolene = 1704
- 1(10)-Aristolene = 2943
- Aristolochic acid BII methyl ester = 1691
- Aristolodione = 17429
- Aristololactam = 1698
- Armidenediol = 1749
- Arolisic acid B = 2312
- Aromadendr-1(10)-en-9-one = 20249
- Aromadendrin-4',7-dimethyl ether = 8202
- Aromadendrol = 1764
- Artemisinine IV = 18288
- Artemisinin G = 1786
- Artilesin A = 13604
- γ -Asarone = 957
- Asebotoside = 1847
- Asimicin = 1317
- (-)-Asimilobine = 1857
- Asparagine A = 5470
- Astragalin = 12050
- Astrantiagenin E = 9260
- Astrasierversianin VIII = 1937
- Attractilin = 1969
- Attractylodide = 1971
- β -Daucosterol = 4680
- Aurantinin = 15286
- Ausraptin = 11462
- Azacyclohexane = 17450
- 1-Aza-9,10-dimethoxy-4-methyl-2-oxo-1,2-dihydroanthracene = 12116
- Azedarachin = 21448

B

- Baicalein-7-glucuronide = 2106
- Bakuchicin = 1191
- Bakuchiol = 2081
- Balanitin 6 = 23005
- Balanophorin A = 1122
- Balanophorin B = 13099
- Banisterine = 9235
- Baogongteng B = 19542
- Baphinitone = 6290
- Barlerin = 511

- Batatacin III = 2165
 Bayogenin 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranoside = 4018
 Beauvericin = 2188
 Beetroot red = 2322
 Belamarine = 2219
 Belamcandaphenol = 2216
 Bellidifolin 8-*O*- β -glucopyranoside = 20511
 Bellidin 8-*O*- β -glucopyranoside = 15800
 1,2-Benzenediol = 3318
 1,4-Benzenediol = 9740
 1,3-Benzodioxol-5-ol = 19779
 4-(1,3-Benzodioxol-5-yl)-6-methoxynaphtho[2,3-*c*]furan-1,5,8(3*H*)-trione = 11982
 (2*E*,4*E*,11*E*)-12-(Benzo[1,3]dioxol-5-yl)-*N*-(3-methylbutyl)dodeca-2,4,11-trienamide = 17474
 1,3-Benzodioxol-5-yl-1-oxo-2,4-pentadienylpiperine = 17451
 (-)-2-(15-Benzo[1,3]dioxol-5-yl-pentadecanoyl)-3,6-dihydroxy-cyclohex-2-enone = 20493
 2,3-Benzofuran = 4143
 4*H*-1-Benzopyran-4-one,3,5,7-trihydroxy-2-phenyl = 8081
 6,7-Benzopyrene = 2226
 1,2-Benzopyrone = 4140
 2,3-Benzopyrrole = 11025
 1,4-Benzoquinone = 18426
 10-*O*-Benzoyl-6-*O*- α -arabino(1 \rightarrow 6)- β -glucopyranosyl arborescosidic acid = 16518
 9-Benzoyl-2-deacetoxy-9-deacetyl-10-debenzoyl-10,13-diacetyltaxchinin A = 20754
 3-*O*-Benzoyl-7-*O*-deacetylorthosiphonol M = 16232
 9-*O*-Benzoyl-9,10-dide-*O*-acetyl-11(15 \rightarrow 1)-abeo-baccatin VI = 20776
 2*a*-Benzoyl-9,9-dimethyl-6*a*,8*b*-di-(γ , γ -dimethylallyl)-3,4-[2*a*-(2'-hydroxyisopropyl)-2,3-dihydrofuran]-8*a*-*H*-*cis*-bicyclo[3.3.1]nona-3-ene-1,5-dione = 8213
 6'-*O*-Benzoyl-8-epiloganic acid = 1538
 6'-*O*-Benzoyl-gardoside = 1540
 12-*O*-Benzoyllineolon 3-*O*- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 17785
 1-Benzoylmethyl-5-hydroxyphenyl- β -*D*-(3'-benzoyl) glucopyranoside = 2270
 1-Benzoylmethyl-5-hydroxyphenyl- α -*D*-glucopyranoside = 19192
 10*b*-Benzoyloxy-2*a*,4*a*-diacetoxy-5*b*,20-epoxy-1*b*,7*b*,9*a*,13*a*-tetrahydrox-11(15 \rightarrow 1)-abeo-taxene = 5348
 9*a*-(Benzoyloxy)-2*a*,4*a*-diacetoxy-5*b*,20-epoxy-1*b*,7*b*,10*b*,13*a*-tetrahydroxy-11(15 \rightarrow 1)-abeo-taxene = 20831
 6'-Benzoylsequinoside A = 2612
 Benzyl alcohol xylopyranosyl(1 \rightarrow 6)glucopyranoside = 2278
 Benzyl β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 10953
 2-Benzyl-1,3-dihydroxy-anthraquinone = 2299
 Berbericinin = 16555
 9-Berberoline = 2304
 Bergamottin = 2308
 Betuletol 3-methyl ether = 19312
 Betulic acid = 2334
 Betulinaldehyde-3*b*-yl-caffeate = 13090
 Betulinol = 2331
 Bicoloirin = 664
 Bicuculline = 642
 Bidenoside D = 2362
 Biflorine = 17983
 4,4''-Binaphthalene-8,8''-*O*,*O*-di- β -*D*-glucopyranoside = 12401
D(+)-Biotin = 2395
 Bipindogenin 3-*O*- β -*D*-digitaloside = 2399
 3,6'-Biplumbagin = 3541
L-Bisabolene = 2412
 α -Bisabolol = 2414
 Bischroman = 2481
 3,3'-Bis(3,4-dihydro-6-methoxy-2*H*-1-benzopyran) = 2481
 1,2-Bis(2,4-dihydroxy,3-*C*-glucopyranosyl)-ethanedione = 22477
 1,7-Bis-(3,4-dihydroxyphenyl)-5-hydroxy-3-heptanone-5-*O*-[2-(2-methylbutenyl)]- β -*D*-xylopyranoside = 961
 1,7-Bis-(3,4-dihydroxyphenyl)-5-methoxy-3-heptanone = 14489
 3,10-Bis-(1,1-dimethyl-2-propenyl)-5-hydroxy-8,8-dimethyl-2*H*,8*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-2-one = 3788
 3-*O*-{Bis[β -*D*-glucopyranosyl(1 \rightarrow 2 and 1 \rightarrow 3)- α -*L*-arabinopyranosyl]} echinocystic acid 28-*O*- β -*D*-glucopyranosyl ester = 11800
 (16 \rightarrow 16)-Bis-16*b*-hydro-*ent*-kaurane = 1301
 1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione = 4398
 1,7-Bis(4-hydroxyphenyl)-3*R*,5*S*-heptanediol = 9219
 1,7-Bis(4-hydroxyphenyl)-5*S*-hydroxy-3-heptanone = 17547
 3-[Bis(3,4-methylenedioxyphenyl)methyl]-4-(β -*D*-glucopyranosyloxy-methyl)-2(5*H*)-furanone = 11974
 Bis(3-methylthio-2*E*-propenyl) disulfide = 7848
 β -Bitter acid = 13109
 α -Bixin = 2496
 Blancoxanthone = 11086
 Blumenol A = 22615
 Bogoroside = 4014
 6-*C*- β -*D*-Boivinopyranosyl-4'-*O*- β -*D*-glucopyranosylapigenin = 18677
 Bolusanthin III = 16545
 2-Bornanone = 3048
 (+)-(1*R*,2*S*)-Borneol = 2553
 (-)-(1*S*,2*R*)-Borneol = 2555
 Brachyamide B = 17436
 Brazilin = 2594
 Britannin = 2615
 Bruceantinoside B = 22875
 Brucein A = 2664
 Brucein B = 2665
 Brucein C = 2666
 Brucein D = 2667
 Brucein E = 2668
 Brucein F = 2670
 Brucein G = 2671
 Brucein H = 2672
 Brucein I = 2673
 Brucineoxide = 2679
 bryodulcosigenin 3-*O*- β -glucopyranosyl-26-*O*- α -rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -glucopyranoside = 12219
 Buddledin E = 3245
 Bufarenogenin = 2718

Bufogenin = 18637
 Bulbispermine = 9206
 Bullatine F = 15228
 Butanoic acid = 2808
 (*E*)-2-Butenedioic acid = 7996
 Butenoic acid = 4271
 3-Buten-1-ol = 943
 7 α -Butoxyethoxy-12-hydroxyabieta-6 α -yl 6,7-dehydroabieta-8,11,13-trien-12-yl ether = 7887
 6-C-Butyl derivative of 2*R*,5*R*-bis(hydroxymethyl)-3*R*,4*R*-dihydroxypyrrolidine = 2792
 3*S*,6*S*,7*S*-3-Butyl-4,5-dihydro-6,7-dihydroxy phthalide = 19743
 4-*n*-Butyl-4-hydroxybutyric acid lactone = 15971
n-Butylidene-phthalide = 2797
n-Butyl-phthalide = 2803
 1-Butyl-3,4,5-trihydroxy-cyclohexanol = 21309
 Buxpiine K = 2831
 Buxtauine M = 2832

C

Cadabine = 20254
 4-Cadinene-2 α ,10 α -diol = 12223
 Caesalpinine C = 3360
trans-Caffeic acid-1-*O*-rutinose ester = 20508
 1-*O*-(*E*)-Caffeoyl-3-*O*-galloyl-4,6-[1',1''-(3',3'',4',4'')-tetrahydroxydibenzofurandicarboxyl)]- β -*D*-glucopyranose = 2129
 3-*O*-(2-*O*-Caffeoyl)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-ribofuranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3819
 5-*O*-Caffeoylquinic acid = 15363
 5-*O*-Caffeoylquinic acid methyl ester = 14224
 3-Caffeoylquinid acid = 3551
 1-*O*-(*E*)-Caffeoyl-4,6-[1',1''-(3',3'',4',4'')-tetrahydroxydibenzofurandicarboxyl)]- β -*D*-glucopyranose = 2128
Calendula officinalis Glycoside D₂ = 9588
 Calogenin 3-*O*- β -*D*-cymaropyranosyl-(1 \rightarrow 4)-*O*- β -*D*-digitoxopyranoside = 9346
 Calogenin 3-*O*-3-*O*-methyl- β -*D*-fucopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-oleandropyranoside = 5130
 Calophyn = 1466
 Calotropin = 2937
 Camboginol = 8218
 Camelliol C = 537
 Campestrinoside = 17757
 11-Campherennene-4,10-diol = 10243
 Camptothecin = 3053
 Cangorosin B = 5655
 Cannabiscetin = 15170
 Capaurine = 3114
 Capric aldehyde = 4833
 Caprylic aldehyde = 15973
 Capsicosin D₁ = 8459
 Carbamoylamine = 22246
 3-Carboxyacetyloxy-24-exomethylene-12 β -hydroxy-23-oxo-lanost-8-en-26-oic acid = 7863
 3-(3'-Carboxybutyl)-4-methoxyxanthone = 21232
 28-Carboxy-7 β ,19 α -dihydroxyarbo-9(11)-en-3-one = 19019
 6-Carboxyethyl-7-methoxy-5-hydroxybenzofuran-5-*O*- β -*D*-glucopyranoside = 17297
 19-Carboxy 8(17)-13(16)-14-labdatriene = 12412
 2-Carboxyl-3-(3'-carboxyl-2'-hydroxy)-butyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranoside = 19034
 2-Carboxyl-3-(3'-carboxyl-2'-hydroxy)-butyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19035
 5-Carboxyl-3,4-dihydrogen-1*H*-2-benzopyran-1-one = 7335
 2-Carboxyl-1,4-naphthohydroquinone-4-*O*- β -*D*-glucopyranoside = 19032
 5-(4-Carboxy-3-methoxyphenyl)-3-methoxy-3-carboxy-4-pentenoic acid = 3178
 α -Carboxy-*N,N,N*-trimethyl-1*H*-indole-3-ethanaminium hydroxide inner salt = 10877
 (17 β)-Card-20(22)-enolide = 5525
 Cardol monoene = 2380
trans- β -Carotene = 3209
 β , β -Carotene-4,4'-dione = 3095
 ψ -Carpaine = 18022
 Carpodidine = 16129
 Caryolane-5 β ,9 β -diol = 20137
 (-)-*trans*-Caryophyllene = 3242
 α -Caryophyllene = 9669
 β -Caryophyllene epoxide = 3243
 Casealutine = 11348
 Caseanine = 21077
 Cassiaside C = 8649
 Cassic acid = 18759
 Cassythine = 3293
 Castanin = 676
 Catalpin = 3307
 Catalpinoside = 3306
 Catechinic acid = 3308
 Catechin-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 6925
 Catechol dimethyl ether = 22389
 Catechuic acid = 3308
 (+)-Catharanthine = 3321
 Cathedulin E₂ = 3326
D-Cathine = 15789
 Cauda-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 4552
 Cauda-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 4553
 Caulophyllin = 14279
 Caulophyllogenin 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17350
 Caulosapogenin = 9260
 Celidoniol = 15659
 (1*S*,2*E*,4*R*,6*R*,7*E*,11*E*)-2,7,11-Cembratriene-4,6-diol = 6643
 Cembrene A = 15360

- Centauridin = 19312
 Centellasaponin A = 1854
 Cephalomannine = 20812
 Cepharanone B = 1695
 Cetane = 9485
 Cetin 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19199
 Cetylic acid = 9486
 5 α ,14 α -Cevanine-13,17-dehydro-3 α ,6 β -diol = 22998
 Cevaninedihydroxyone = 22995
 (2*S*,22*S*,25*S*)-5 α -Cevanine-3 β ,6 β -diol = 7928
 5 α ,17 β ,22 α -Cevanine-3 β ,6 α ,12 α ,14 α ,16 β ,20 β -hexol = 17385
 5 α ,14 α -Cevanine-6 α -hydroxyl-3 α - β -*D*-glucoside = 9682
 (20*R*,22*S*,25*S*)-5 α -Cevanin-23-ene-3 β ,6 β ,16 β -triol = 11004
 5 α ,14 α ,22 α -Cevanine-3 β ,6 α ,20 β -triol = 22993
 5 α ,14 α ,22 β -Cevanine-3 β ,6 α ,20 β -triol = 22636
 3-*O*- β -*D*-Chacotriosyl-3 β ,16 β -dihydroxy-pregn-5-en-20-one 16-*O*-(2,5-epoxy-2-methoxy-4-methyl-pentanoic acid)-ester = 48
 Chaerophyllin = 12106
 Chalepin = 9304
 Chalepin acetate = 19085
 ψ -Cheierythrine = 19284
 Cheiranthidin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-boivipyranoside = 3496
 Cheiranthidin 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside = 3497
 Chikusetsusaponin IVc = 8428
 Chimomin = 13481
ent-15-Chloro-13,14-dihydroxyabd-8(9)-en-3-one = 685
 2-Chloro-1,4-dihydroxy-3-(4-methylpent-3-enyl)anthraquinone = 1370
 7-Chloro-(2*R*)-2-*O*- β -*D*-glucopyranosyl-4-hydroxy-2*H*-1,4-benzoxazin-3(4*H*)-one = 3815
 (6*R*,7*R*,8*R*)-8-Chlorogoniodiol = 3555
 3-Chloro-2-hydroxy-4,5,6 α ,7-tetrahydro-dibenzo[de,g]quinoline-6-carboxylic acidmethyl ester = 18902
ent-15-Chloro-labd-8(9)ene-3 α ,13,14-triol = 686
 14-Chloro-2 β ,8 β ,10 α -trihydroxy-1 α *H*,5 α *H*,6 β *H*,7 α *H*-guai-3,11(13)-dien-6,12-olide = 7570
 Cholaic acid = 20734
 Cholestane-3,7,12,26-tetrol = 21138
 (22*S*,25*S*)-5 α -Cholestane-3 β ,16 β ,22,26-tetrol = 725
 5-Cholesten-3 β -ol = 3585
 5 β -Cholic acid = 3588
N-Choloyl-aurine = 20734
 Cholyltaurine = 20734
 Chrysanthelide = 9218
 Chrysanthemyl alcohol = 3595
 Chrysartemin A = 3076
 Chrysatroic acid = 19542
 Chrysoeriol 7-*O*-[2'''-*O*-caffeoyle-6'''-*O*-acetyl- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside] = 16482
 Chrysoeriol 7-*O*-[2'''-*O*-caffeoyle- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside] = 16483
 Chrysoeriol 7-*O*-[2'''-*O*-*p*-coumaroyl-6'''- β -*O*-acetyl-*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside] = 16484
 Chrysophanein = 3620
 Chrysophanol-1-*O*- β -*D*-glucopyranoside = 3620
 Chrysosplenol C = 3623
 Chuanliansu = 21448
 Chuan-Wu-base B = 3201
 Cichoric acid = 3518
 Cichorigenin = 663
 (8 α ,9*R*)-Cinchonan-9-ol = 3685
 Cinnamic aldehyde = 3693
 6'-Cinnamoylcatalpol = 17344
 Cinnamoyl cinnamate = 20417
N-Cinnamoyl-*trans*-3,4-diacetoxypyrrolidine = 19369
 1-Cinnamoyl-3-hydroxy-11-methoxymeliacarpinin = 3710
 12(*R*)-*O*-Cinnamoyloxy-3 β ,5 β -dihydroxy-8,14-*seco*-17 α -pregn-6-ene-8,14,20-trione = 4562
 12(*R*)-*O*-Cinnamoyloxy-3 β ,5 β -dihydroxy-8,14-*seco*-17 β -pregn-6-ene-8,14,20-trione = 4555
 5 α -Cinnamoyloxy-9 α -hydroxy-10 β ,13 α -diacetoxytaxa-4(20),11-diene = 4637
 5 α -Cinnamoyloxy-2 α ,7 β ,13 α -triacetoxy-2(3 \rightarrow 20)abeo-taxa-4(20),11-diene-9,10-dione = 4636
cis-3 β -(Cinnamoyloxy)tropane = 7348
O-Cinnamoyltaxicin II triacetate = 20797
 12-*O*-Cinnamoyldihydrosarcostin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)-*O*-3-*O*-methyl-6-deoxy- β -*D*-allopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)-*O*- β -*D*-cymaropyranoside = 13577
 Cinobufotenine = 2726
 Cirantin = 9458
 Cirenenside P = 8611
 Cirontin = 9458
 Cirsiumaldehyde = 2452
 Citroside A = 4716
 Citrus-hesperidin = 9458
cis-Civetone = 3780
 Clauszoline C = 3797
 Clauszoline I = 3795
 Clauszoline J = 3799
 Clemaphenol A = 3818
 Cleosandrin = 3829
 (*rel*-3*S*,4*S*,5*R*,8*R*,9*R*,10*S*)-14-Clerodene-3,4,13-triol = 22576
 Cnidimine = 6709
 Coccellinic acid = 18779
 (+)-Coclaurine = 3878
 Coculine = 19955
 Codonolactone = 1967
 Con-5-*en*-3 β -amine = 3959
 Coniferaldehyde = 10453
 Conioselin = 3990
 Convallagenin B 5-*O*- β -*D*-glucopyranoside = 21845
 Convallaton = 4012
 Corbisterol = 4963
 Cornustannin 2 = 7518
 Corydalactam = 7451
 Corydalis = 21077

- Corylifolin = 2172
 Corysamine = 22732
 Cosmosiin = 1492
 Cotoin = 5965
 10-*O*-(*E*)-*p*-Coumaroyladoxoside = 13166
 10-*O*-(*Z*)-*p*-Coumaroyladoxoside = 13167
 2'-*O*-*p*-Coumaroylaloenin = 973
 7-*O*-*trans*-*p*-Coumaroyl-6'-*O*-*trans*-caffeoyl-8-epiloganic acid = 752
 7-*O*-*p*-Coumaroylhydroxymaltol 3-*O*- β -*D*-glucopyranoside = 2525
 (2-*trans*-*p*-coumaroyloxymethyl-4- β -*D*-glucopyranosyloxy-2(*E*)-butenenitrile) = 15593
 6-*O*- α -*L*-(2"-*O*-*trans*-*p*-Coumaroyl)rhamnopyranosylcatalpol = 19104
 7-*O*-(*E*)-*p*-Coumaroylsuspensolide F = 13164
 7-*O*-(*Z*)-*p*-Coumaroylsuspensolide F = 13165
trans-*p*-Coumaryl-(6'-*O*- α -*L*-arabinopyranosyl)-*O*- β -*D*-glucopyranoside = 18929
 3-*O*-(6-*O*-*p*-coumaryl- β -*D*-glucopyranosyl)-5-*O*-(6-*O*-malonyl- β -*D*-glucopyranosyl)cyanidin = 13450
trans-*p*-Coumaryl-(6'-*O*- β -*D*-xylopyranosyl)-*O*- β -*D*-glucopyranoside = 18928
 Courouputine B = 11024
 CQ-1 = 3440
 CQ-2 = 3441
 CQ-3 = 3442
 CQ-4 = 3443
 CQ-5 = 3444
 Crassicaulisine = 15228
 Cratogenic acid = 6059
 Crocin-1 = 4249
 Crotaline = 14923
 Crotepoxide = 8041
 Cryptocavine = 4290
 Cryptopalmatine = 15079
 Cryptopimaric acid = 19236
 Crysoeriol = 3602
 Cubebol = 4304
 Cucurbitacin = 6733
 Cucurbitacin L 2-*O*- α -glucopyranosyl-(1 \rightarrow 4)- β -glucopyranoside = 12209
 Cucurbitacin L 2-*O*- α -rhamnopyranosyl-(1 \rightarrow 2)- β -glucopyranoside = 12208
 Cunabic acid = 12178
 Cupressuflavone = 4376
 Curculigine = 4381
L-Curine = 2191
 Cyanidin-3-*O*- β -*D*-(6-*O*-*p*-coumaroyl)-glucoside = 9696
 Cyanidin diglucoside = 4451
 Cyanidin 3-*O*-glucoside = 3594
 Cyanidin rhamnoglucoside = 4446
 Cyanidin 3-*O*-(4"-*O*-sinapoyl gentiobioside) = 835
 Cyanidol = 3308
 (*S*)-*trans*-Cyclanoline = 3747
 Cyclene = 21598
 Cycloart-23-ene-3 β ,25-diol = 4471
 9 β ,19-Cyclolanost-24*E*-ene-3 β ,6 α ,16 β ,27-tetraol-3-*O*-(2'-*O*-acetyl)- β -*D*-glucopyranoside = 12108
 9 β ,19-Cyclolanost-24*E*-ene-3 β ,6 α ,16 β ,27-tetraol-3-*O*-(6'-*O*-acetyl)- β -*D*-glucopyranoside = 12109
 9 β ,19-Cyclolanost-24*E*-ene-3 β ,6 α ,16 β ,27-tetraol-3-*O*- β -*D*-glucopyranoside = 12107
 9 β ,19-Cyclolanost-24*E*-ene-3 β ,6 α ,16 β ,27-tetraol-3-*O*- β -*D*-glucopyranosyl-27-*O*- β -*D*-glucopyranoside = 12110
 9 β ,19-Cyclo-24-lanosten-3 β -ol = 4473
 Cyclomulberrochromene = 4517
 13-(2-Cyclopenten-1-yl)tridecanoic acid = 3485
 Cyclo-(Pro-Ala) = 4463
 Cyclo-(prolyl-glycyl-tyrosyl-valyl-leucyl-alanyl-leucyl-valyl) = 8494
 Cyclo-(prolyl-prolyl-valyl-tyrosyl-glycyl-prolyl-glutamy) = 8495
 Cyclo-(Val-Pro) = 4534
 Cymaroside = 3674
 2-*p*-Cymenol = 3231
 Cynajapogenin A 3-*O*- α -*L*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranosyl-(1 \rightarrow 4)- β -*L*-cymaropyranoside = 4566
 Cynajapogenin A 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*L*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside = 4567
- ## D
- Daidzein 7-*O*- β -*D*-(6"-*O*-acetylglucopyranoside) = 361
 Daidzoxide = 4606
 Damma-12,20(22)*Z*-dien-3 β -ol = 3469
 Damma-12,20(22)*Z*-dien-3-one = 3468
 Dammardienyl acetate = 149
 Dammar-25-ene-20,24-diol-3-one = 7931
 Dammar-22(32)-ene-3 β ,6 α ,12 β ,20*S*,24 ξ -pentaol-(20-*O*- β -*D*-glucopyranosyl-6-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside) = 13407
 Dammar-23(24)-ene-3 β ,6 α ,12 β ,20(*S*),25-pentaol-(20-*O*- β -*D*-glucopyranosyl-6-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside) = 13408
 Dammar-24-ene-3,12,17,20-tetrol = 2326
 Dammar-24-ene-3,12,20-triol = 2328
 Daniellie acid = 7161
 Daphnetin-7-glucoside = 4650
 Darutin = 4662
 4,8-Daucadiene = 4675
 Dauriporphine = 2345
 10,13-Deacetyl-abeo-baccatin IV = 20739
 7-Deacetyl-7-angeloyl-16-ketokihadalactone A = 18453
 2 α -Deacetyl-2 α -benzoyl-13 α -acetyltaxayuntin = 20761
 10-Deacetylcephalomannine = 4784
 9 α -Deacetyl-9 α -debenzoyl taxayuntin = 20762
 Deacetyldecinnamoyltaxinine E = 4737
 2-Deacetyl-7,10-diacetyl-5-deaminoacyl taxine A = 4781
 2-*O*-Deacetylorthosiphol A = 16229
 3-*O*-Deacetylorthosiphol B = 16229
 3-*O*-Deacetylorthosiphol J = 16231
 9-Deacetyltaxayuntin E = 20845
 2-Deacetyltaxinine A = 20855
 2 α -Deacetyltaxinine J = 20846
 10-Deacetylaxol C = 4787
 Deacylcynanchogenin = 12880
 Deaminoacylcinnamoyltaxine A = 20847
 Deaminoacylcinnamoyltaxol = 2074

- 2*α*-Debenzoyl-2*α*-acetyl taxayuntin = 20760
N-Debenzoyl-*N*-butanoyltaxol = 20814
N-Debenzoyl-*N*-hexanoyltaxol = 20813
 Deca-2*E*,4*Z*-dienoic acid piperidide = 15446
 Deca-8(*E*)-en-4,6-diyne-1,3,10-triol 1-*O*-*β*-*D*-glucopyranoside = 2362
 8*Z*-Decaene-4,6-diyne-1-*O*-*β*-*D*-glucopyranoside = 2358
 Decaffeoyl forsythoside C = 7927
 Decaffeoylverbascoside = 4830
 [1*S*-(1*α*,3*β*,4*α*,8*β*)]-Decahydro-9-methylene-4,8,8-trimethyl-1,4-methanoazulene = 12955
 (-)-(2*R*,4*α**S*,8*α**R*)-Decahydro-4*α*-methyl-8-methylene-2-(1-methylethyl)-2-naphthalenol = 7511
n-Decane = 4834
 Decanedioic acid = 19596
 Decanoic acid = 3138
 9'-Decarboxyrosmarinic acid 4'-*O*-*α*-rhamnosyl-(1'''→6''')-*O*-*β*-galactosyl-(1'''→4'')-*O*-*α*-rhamnoside = 21221
 3(*R*)-Deca-4,6,8-triyne-1,3-diol 1-*O*-*β*-*D*-glucopyranoside = 2361
 (3*R*)-8-Decene-4,6-diyne-1,3-diol 1-*O*-*β*-*D*-apiofuranosyl-(1→6)-*β*-*D*-glucopyranoside = 9105
 3(*R*),8(*E*)-8-Decene-4,6-diyne-1,3-diol 1-*O*-*β*-*D*-glucopyranoside = 2359
 (*E*)-8-Decene-4,6-diyne-1,10-diol 1-*O*-*β*-*D*-glucopyranoside = 5155
 (3*R*)-8-Decene-4,6-diyne-1,3-diol 1-*O*-*β*-*D*-glucopyranoside = 9104
 Degueline = 4872
 6,7-Dehydroabieta-8,11,13-trien-12-yl 7*α*-hydroxy-12-methoxyabieta-8,11,13-trien-6*α*-yl ether = 7886
 13-Dehydro-1*β*-acetyl-2*α*,6*β*-dihydroxyhetisine = 9051
 7,8-Dehydrocerberin = 526
 6*α*,12*α*-Dehydrodeguelin = 4898
 9(11)-Dehydroergosterol peroxide = 6904
 11-Dehydro-17-hydroxycorticosterone = 4097
 Dehydrolarreatricin = 4940
 6-Dehydrolongilactone = 4986
 Δ¹-Dehydromiltirone = 4950
 Dehydroypodorhizol = 5543
 Dehydroxytetrahydrocurcumin = 8389
 1-*O*-Deisoaeroyl-1-*O*-3-methylvaleroylluzonoid A = 13161
 Delphamine = 5004
 Delphanin = 15289
 Delphinidin 3-*O*-[6-*O*-(4-*O*-(4-*O*-(6-*O*-(*trans*-caffeoyl)-*β*-*D*-glucopyranosyl)-*trans*-*p*-coumaroyl)-*α*-*L*-rhamnopyranosyl)-*β*-*D*-glucopyranoside]-5-*O*-[*β*-*D*-glucopyranoside] = 17358
 Delphinidin-3,5-diglucoside = 5010
 Delphinidin 3-*O*-[6-*O*-(4-*O*-(4-*O*-(*β*-*D*-glucopyranosyl)-*trans*-*p*-coumaroyl)-*α*-*L*-rhamnopyranosyl)-*β*-*D*-glucopyranoside]-5-*O*-[*β*-*D*-glucopyranoside] = 17359
 Delphinidol = 5011
 Demecolcine = 3909
 Demethoxycurcumin = 2439
 3'-Demethoxy-6-*O*-demethylisoguaicin = 7746
 4-Demethoxytyraminoporphine = 4689
 4-Demethylantiol 4-*O*-[(3-methoxy-4-hydroxy-benzoyl)-*β*-*D*-apiofuranosyl-(1→2)-*β*-*D*-glucopyranoside] = 8852
 Demethylcrinamine = 9206
 4-Demethyl-deoxypodophyllotoxin = 5074
N-Demethylfrangulane = 9653
 (8*R*,8'*R*)-3'-*O*-Demethyl-5-hydroxymatairesinol = 5082
 (8*R*,8'*R*)-3'-*O*-Demethyl-5-methoxymatairesinol = 5085
 Demethylpedalitin = 10351
 4'-Demethylpodophyllotoxin = 5093
 Demethyltetrandrine = 7714
 Dendramine = 9982
 Densiflorol B = 4585
 15-Deoxo-30-hydroxyeucosterol 3-*O*-*α*-*L*-rhamnopyranosyl-(1→2)-[(*β*-*D*-glucopyranosyl-(1→3))-*β*-*D*-glucopyranosyl-(1→2)-*α*-*L*-arabinopyranosyl-(1→6)-*β*-*D*-glucopyranoside] = 19516
 9-Deoxo-9*α*-hydroxytaxol = 22950
 11-Deoxojervine = 4522
 4-Deoxyasimicin = 11375
 Deoxycapillartemisin = 1808
 7-Deoxycholic acid = 5161
 3-Deoxycrassicaulidine = 15228
 2-Deoxy-*D*-ribose-3,5-bis(tripolyphosphate)-1,4-lactone = 2494
 22-Deoxyecdysterone = 20807
 6-Deoxy-*β*-*D*-glucopyranosyl-[3-*O*-*β*-*D*-glucopyranosyl-(1→6)-*β*-*D*-glucopyranosyl]-pyrocincholate = 11035
 6-Deoxy-*β*-*D*-glucopyranosyl-pyrocincholate = 11036
 11-Deoxyglycyrrhetic acid = 5144
 Deoxyisoartemisinin B = 6891
 3-[[2-*O*-(6-Deoxy-*α*-*L*-mannopyranosyl)-*β*-*D*-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4*H*-1-benzopyran-4-one = 20660
 3-[[2-*O*-(6-Deoxy-*α*-*L*-mannopyranosyl)-*β*-*D*-glucopyranosyl]oxy]-5,7-dihydroxy-2-(4-methoxyphenyl)-4*H*-1-benzopyran-4-one = 12016
 6-Deoxy-*L*-mannose = 18739
 1-Deoxymorusignin J = 1135
 Deoxypodophyllotoxin = 1372
 7-Deoxypseudoanisatin = 5204
 12-Deoxyroyleanone = 3
 9-Deoxysanaconitine = 11476
 Desacetylcinobufaginol = 9993
 Desacetyl eupaserrin = 4739
 Desacetyl pseudolaric acid B = 18035
 Desacylescine I = 667
 Desacylkondurangenin C-3-*O*-*α*-*D*-glucopyranosyl-(1→4)-*O*-*α*-*L*-fucopyranoside = 5131
 1-Desgalloyleugeniin = 20910
 5-Desgalloyl stachyurin = 3302
 Desglucosyrioidide = 7272
 Desmanthin 1 = 15181
 Desoxodehydrocyclopiloselloidone = 5142
 21-Desoxy-iridogermanal = 11133
 Desoxymorellin = 5196
 7-Desoxyneocynapanogenin A 3-*O*-*β*-*D*-cymaropyranosyl-(1→4)-*α*-*L*-digingopyranosyl-(1→4)-*β*-*D*-thevetopyranoside = 1992
 4,5-*cis*-4,5-Diacetoxy-(1-acetoxypentadecyl)-2-cyclopenten-1-one = 21536
 3*β*,9*α*-Diacetoxy-7*β*-benzoyloxy-15*β*-hydroxy-14-oxojatropha-5*E*,12-*E*-

- diene = 18172
- rel*-(2*S*,5*R*,6*S*,7*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-7,19-Diacetoxy-18-butanoyloxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene = 3261
- (2*R*)-1*α*,12*α*-Diacetoxy-2*α*,3*α*;6*α*,7*α*-diepoxy-27-[(*β*-*D*-glucopyranosyl)oxy]-5*α*,-16*β*-dihydroxywith-24-enolide = 3479
- (2*R*)-1*α*,12*α*-Diacetoxy-2*α*,3*α*;6*α*,7*α*-diepoxy-27-[(*β*-*D*-glucopyranosyl)oxy]-5*α*-hydroxy-16-oxowith-24-enolide = 3478
- 3'(*S*),4'(*S*)-Diacetoxy-3',4'-dihydroseselin = 18285
- 3*β*,6*α*-Diacetoxy-15*β*,17-dihydroxy-11*β*,16*β*-epoxy-*ent*-kaurane = 13696
- 7*β*,16*α*-Diacetoxy-4*β*,20*R*-dihydroxy-5*β*,6*β*-epoxy-1-oxowitha-2,24-dienolide = 5324
- 2*β*,3*β*-Diacetoxy-11*β*,13*α*-dihydroxy-*ent*-kaur-16-en-15-one = 20622
- 3*β*,11*β*-Diacetoxy-2*β*,6*α*-dihydroxy-*ent*-kaur-16-en-15-one = 20623
- Diacetoxydihydroxytaxadiene = 5294
- (20*S*,24*R*)-15*α*,16*β*-Diacetoxy-20,24-epoxy-9,19-cyclolanostane-3*β*,18,25-triol-3-*O*-*β*-*D*-xylopyranoside = 2203
- rel*-(2*R*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-18,19-Diacetoxy-18,19-epoxy-6-hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene = 3262
- 2*α*,15-Diacetoxy-2,3-epoxy-2,3-seco-(1*α*,5*α*,6*β*,7*β*)-aromadendra-3,10(14)-dien-13-al = 17496
- 12*β*,21-Diacetoxy-29-*β*-*D*-glucopyranosyloxy-23*ε*-hydroxytirucalla-7,24-dien-3-one = 17852
- (*rel* 6*S*,7*R*,8*S*,9*R*)-6,7-Diacetoxy-5(10),14-halimadien-13-ol = 22571
- 12,16-Diacetoxy-6-hydroxyabieta-5,8,12-trien-7,11,14-trione = 22751
- (13*S*,15*S*)-2*α*,12*α*-Diacetoxy-6-hydroxy-13,16-cycloabieta-5,8-dien-7,11,14-trione = 22752
- 1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-pentadecan-1-one = 5341
- 1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-tridecan-1-one = 5340
- 1-(2,5-Diacetoxy-1-hydroxy-cyclopent-3-enyl)-undecan-1-one = 5339
- (12*S*)-6*α*,19-Diacetoxy-12-hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide = 797
- 6*S*-[3*S*,6*S*-(Diacetoxy)-5*R*-hydroxy-1*Z*-heptenyl]-5*S*-hydroxy-5,6-dihydro-2*H*-pyran-2-one = 16750
- 4,5-*trans*-4,5-Diacetoxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one = 21535
- 1*β*,8*β*-Diacetoxyl-6*α*,9*α*-difuroyloxyl-dihydro-*β*-agarofuran = 16166
- 2*α*,9*α*-Diacetoxy-1*β*,5*α*,10*β*,13*α*-tetrahydroxytaxa-4(20),11-diene = 5318
- 11,16-Diacetoxy-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one = 146
- 3*β*,6*α*-Diacetoxy-7*β*,15*β*,17-trihydroxy-11*β*,16*β*-epoxy-*ent*-kaurane = 13697
- 3-*O*-*α*'(2',4'-*O*-Diacetyl)-*L*-arabinopyranosyl-3*β*-hydroxyolean-12-ene-28,29-dioic acid-28-*O*-[*α*-*L*-rhamnopyranosyl-(1→4)-*β*-*D*-glucopyranosyl-(1→6)-*β*-*D*-glucopyranosyl] ester = 22916
- 2,10-Di-*O*-acetyl-5-decinnamoyl-taxicin I = 5331
- 3,3'-Diacetyl-4,4'-dimethoxy-2,2',6,6'-tetrahydroxy diphenyl methane = 2442
- 3,3'-Diacetyl-4,4'-dimethoxy-2,2',6,6'-tetrahydroxy diphenyl methane-6'-*O*-*β*-*D*-glucopyranoside = 6667
- 5,10-Diacetyl-6,20-epoxy-3-phenyl-acetylthirol = 7617
- 11,13-Diacetyl-14-hydroxy-2-isobutyryl hetsine = 9050
- 21,28-Di-*O*-acetylprotoescigenin-3-*O*-[*β*-*D*-glucopyranosyl(1→2)][*β*-*D*-glucopyranosyl(1→4)]-*β*-*D*-glucopyranosiduronic acid = 665
- 1-*O*-[2,3-Di-*O*-acetyl-*α*-*L*-rhamnopyranosyl-(1→6)-*β*-*D*-glucopyranosyl]-(2*E*,6*E*)-farnesol = 4231
- 2',3'-*O*-Diacetylsalsolide C = 20532
- Diacetyltaxine B = 20794
- 3-*O*-*β*-(2',3'-Di-*O*-acetyl)-*D*-xylopyranosyl-6-*O*-*β*-*D*-glucopyranosyl-16-*O*-acetoxy-20(*R*),24(*S*)-epoxycycloartane-3*β*,6*α*,16*β*,25-tetrol = 22046
- Diallyldisulfide = 948
- Diallyl trisulfide = 924
- 1,9-Diamino-5-azanonane = 9621
- 1,4-Diaminobutane = 18230
- 4,4'-Diaminobutylamine = 9621
- 2,4-Diaminobutyric acid = 5351
- 2,6-Diamino-4,5-dihydroxy pyrimidine-5-*β*-glucoside = 22466
- 1,5-Diaminopentane = 2845
- 2,5-Diaminopentanoic acid = 16208
- 3'(*S*),4'(*S*)-Diangeloyloxy-3',4'-dihydroseselin = 17763
- Dibenzocyclooctadiene lignan = 1139
- Di[benzoic acid]2,7,8-trihydroxy-3(-4-hydroxyphenyl)dibenzofuran-1,4-diyl = 21305
- 4,6-Dibromo-1,1-dichloro-3,7-dimethyl-2*E*,7-octadiene = 17564
- 4,8-Dibromo-1,1-dichloro-3,7-dimethyl-2*E*,6*E*-octadiene = 17563
- 4,8-Dibromo-1,1,7-trichloro-3,7-dimethyl-2*E*,5*Z*-octadiene = 17565
- 1,5-Di-*O*-caffeoylquinic acid = 4564
- 2,4-Dichloro-1,8-dihydroxy-3-methylnaphthalene-8-*O*-*β*-*D*-glucopyranoside = 16715
- Dicoumarol = 5440
- Dictamnolactone = 15882
- 2,10-Dideacetyltaxin B' = 5321
- (5'*R*)-3,4-Didehydro-*β*,*κ*-caroten-6'-one = 5472
- 1,2-Didehydro-6,7-epoxy-3*α*,16,17-trimethoxyerythrinan-8-one = 7043
- Dideroside methyl ester = 13905
- rel*-(1*β*,2*α*)-Di-(2,4-dihydroxybenzoyl)-*rel*-(3*β*,4*α*)-di-(4-hydroxyphenyl)-cyclobutane = 6195
- 1,7-Di-(3',4'-dihydroxyphenyl)-4-hepten-3-one = 4930
- 3',3'-Di-(*γ*,*γ*-dimethylallyl)-2',4'-di-oxo-enolchalcone = 22110
- 3,3'-Di-(*γ*,*γ*-dimethylallyl)-2',4,4'-trihydroxychalcone = 6025
- 4,9-Dien-eudesmine-13,15-dicarboxylic acid-15-*β*-*D*-glucopyranoside = 15262
- 3*β*,20:15*R*,16*S*-Diepoxy-3*α*-beyeranol = 691
- 16*β*,22*R*;21,23*S*-Diepoxy-3*β*-*O*-*β*-*D*-glucopyranosyloxy-21*S*,24-dihydroxy-stigmasta-8,14-dien-28-one = 22409
- (12*R*,20*S*,24*S*)-20,24;20,12-Diepoxy-25-hydroxydammaran-3*β*-yl-*O*-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-xylopyranoside = 9120
- 9(13),15(16)-Diepoxy-3*α*-hydroxy-16-dihydrolabda-14-ene = 17845
- 9,13:15,16-Diepoxy-7-hydroxy-14-labden-6-one = 17810
- rel*-(7*α*,7'*α*,8*α*,8'*α*)-7,9':7',9'-Diepoxylignan-3,3',4,4'-tetraol = 2440
- 16,23*R*: 16,24*S*-Diepoxy-3*β*,12*β*,15*α*,25-tetrahydroxy-cycloart-7-ene 3-*O*-*α*-*L*-arabinopyranoside = 2732
- 20(*S*),22(*R*),23(*S*),24(*R*)-16*β*:23;22:25-Diepoxy-3*β*,23,24-trihydroxy-9,19-cyclolanostane-3-*O*-*β*-*D*-(4-acetyl)xylopyranoside = 20112
- (22*R*,24*S*,25*R*,26*S*)-24,25;22,26-diepoxy-1*α*,3*δ*,26-trihydroxyergost-5-ene 26-*O*-*β*-*D*-glucopyranoside = 3644
- 16*β*,22*R*;21,23*S*-Diepoxy-3*β*,21*S*,24-trihydroxystigmasta-8,14-dien-28-one = 22410
- 2,17-Diethenyl-1,10,19,22,23,24-hexahydro-3,7,13,17-tetramethyl-1,19-dioxo-21*H*-bilane-8,12-dipropanoic acid = 2374
- 1,1-Diethoxyethane = 108
- Di-(2-ethylbutyl)phthalate = 2448
- 1,3-*O*-Di-galloyl-4,6-[1',1''-(3',3'',4',4''-tetrahydroxydibenzofurancarboxyl)]-

- β -D-glucopyranose = 2127
- 3-O-Digilaniobioside = 7321
- Digiprolactone = 12952
- Digitoxigenin 3-O-oleandroside = 2187
- 28,31-Di-O- β -D-glucopyranosides of 1 α ,3 β ,24 ζ ,31-tetrahydroxy-24 ζ -methylcycloartan-28-oic acid = 4539
- 6,8-Di- β -glucopyranosyl-5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one = 5531
- 3,5-Di-C- β -glucopyranosyl-2,4,6,3'-tetrahydroxybenzophenone = 20960
- 3 β ,22 α -Dihydroxy-11-oxo- Δ ¹²-olean-ene-27 α -methoxy carbonyl-29-oic acid (29,22 α) lactone = 8855
- 3,4-Dihydroxy-trans-cinnamic acid hentriacontanylester = 9365
- 3,4-Dihydroxy-trans-cinnamic acid nonacosanylester = 15670
- 9-Dihydro-13-acetylbaecatin III = 4726
- 2,3-Dihydroambrosin = 4624
- 10,11-Dihydro-5,10[1',2']benzeno-5H-dibenzo[a,d]cycloheptene-2,4,7,8,15,17-hexol = 3286
- 2,3-Dihydro-6,6'''-biluteolin = 9287
- 3 α -19-(S)-Dihydrocadambine = 5550
- Dihydrocherimolin = 16266
- (-)-Dihydrocubebin = 5572
- 23,24-Dihydrocucurbitacin B = 5573
- (-)-Dihydrodaidzin = 5580
- 9,10-Dihydro-5,9-dihydroxy-8,8-dimethyl-6-(2-methyl-1-oxobutyl)-4-phenyl-2H,8H-benzo[1,2-b:5,6-b']dipyran-2-one = 13465
- (2E)-1-[2,3-Dihydro-4,6-dihydroxy-2-(1-hydroxy-1-methylethyl)-7-benzofuranyl]-3-(4-hydroxyphenyl)-2-propen-1-one = 5263
- 2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(1 α ,2,3,3 α ,8 β ,8 γ -hexahydro-6-hydroxy-1,1,3 α -trimethyl-1H-4-oxabenzof[f]cyclobut[c,d]inden-7-yl)-4H-1-benzopyran-4-one = 5264
- 2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(3-hydroxy-6,6,9-trimethyl-6H-dibenzo[b,d]pyran-2-yl) 4H-1-benzopyran-4-one = 14754
- 2,3-Dihydro-5,7-dihydroxy-6-methyl-3-(6 α ,7,8,10 α -tetrahydro-3-hydroxy-6,6,9-trimethyl-6H-dibenzo[b,d]pyran-2-yl)-4H-1-benzopyran-4-one = 5265
- 22,23-Dihydroergosterol = 3039=14229
- 13 β ,21-Dihydroeuycomanone = 16695
- α -D-(6-O-Dihydroferuloyl)-glucuronosyl(1 \rightarrow 2)- β -D-fructofuranoside = 19658
- 6'-O-(6,7-Dihydrofoliamenthoyl)mussaenosidic acid = 751
- (-)-Dihydrogenistin = 5621
- 2,3-Dihydrogeraniol = 3768
- Dihydroharmine = 9232
- Dihydrohetisine = 9472
- 2,3-Dihydro-3'''-hydroxy-6,6'''-biapigenin = 9286
- (7S,8R)-7,8-Dihydro-7-(4-hydroxy-3,5-dimethoxyphenyl)-8-hydroxymethyl-[1'-(7'-hydroxyethyl)-5'-methoxyl] benzofuran-4-O- β -D-glucopyranoside = 20655
- 7 α ,10 α -Dihydro-5-hydroxy-8,8-dimethyl-6-(2-methyl-1-oxobutyl)-4-phenyl-2H-8H-[1,2]-dioxolano[4'',5'':4'',5'']furo[2',3':5,6]benzo[1,2-b]pyran-2-one = 13466
- (2E)-1-[2,3-Cihydro-4-hydroxy-2-(1-hydroxy-1-methylethyl)-6-methoxy-5-benzofuranyl]-3-(4-hydroxyphenyl)-2-propen-1-one = 22767
- Dihydro-4-hydroxy-5-hydroxymethyl-2(3H)-furanone = 5209
- (2E)-1-(3,4-Dihydro-5-hydroxy-7-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-(4-hydroxyphenyl)-2-propen-1-one = 5743
- 1-[(9,10-Dihydro-4-hydroxy-2-methoxy-7-phenanthrenyl)oxy]-4,7-dihydroxy-2-methoxy-9,10-dihydrophenanthrene = 17201
- (2R,3S)-2,3-Dihydro-2-(4'-hydroxy-3'-methoxyphenyl)-3-hydroxymethyl-7-methoxy-5-benzofuranpropanol 4'-O- β -D-glucopyranoside = 5583
- 2,3-Dihydro-2 α -(4-hydroxy-3-methoxyphenyl)-3 β -methyl-5E-propenylbenzofuran = 16651
- (R)-2,3-Dihydro-3-hydroxy-pyrrolo[2,1-b]quinazolin-9(1H)-one = 22350
- 2,3-Dihydro-5-hydroxy-6,8,8-trimethyl-2-phenyl-4H-1-benzopyran-4,7(8H)-dione = 3474
- Dihydroirisquinone = 16543
- 11 α ,13-Dihydroisoolantolactone = 5648
- Dihydrokaempferol = 1764
- 2,3-Dihydro-7-methoxy-2S*,3R*-dimethyl-3-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin = 7982
- 2,3-Dihydro-7-methoxy-2R*,3R*-dimethyl-3-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin = 7983
- 2,3-Dihydro-7-methoxy-2R*,3R*-dimethyl-2-[4-methyl-5-(4-methyl-2-furyl)-3(E)-pentenyl]-furo[3,2-c]coumarin = 7984
- 4,9-Dihydro-7-methoxy-1-methyl-3H-pyrido[3,4-b]indole = 9232
- Dihydromorelloflavone = 8246
- Dihydromyricetin = 1074
- Dihydronepetalactol = 15434
- Dihydrooroselol = 3936
- Dihydrooroxilin = 5685
- 3,7-Dihydropurine-2,6-dione = 22756
- Dihydrosarcostin 3-O- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside = 6601
- 1,2-Dihydrotanshinone = 5723
- 15,16-Dihydrotanshinone I = 5722
- 15,17-Dihydrotanshinone IIa = 4292
- 10,11-Dihydro-2,4,7,8-tetrahydroxy-10-(3,4-dihydroxyphenyl)-5-[(3,5-dihydroxyphenyl)methyl]-5H-dibenzo[a,d]cycloheptene = 3285
- (\pm)-(2E)-1-(3,4-Dihydro-3,5,7-trihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-(4-hydroxyphenyl)-2-propen-1-one = 5262
- 4'',5''-Dihydro-3,5,4'-trihydroxy-4'',4'',5''-trimethylfuranol[2'',3'':7,8]flavone = 22179
- 2,3-Dihydro-3,6,9-trimethyl naphtho[1,8-bc]pyran-7-oxa-8-one = 13521
- Dihydrovaltrate = 5482
- 14 α ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide = 17160
- 14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide = 17159
- 14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide 19-O- β -D-glucopyranoside = 17161
- 14 β ,19-Dihydroxyabieta-8,13(15)-dien-16,12-olide 19-O-[2-(4-hydroxy-3,5-dimethoxybenzoyl)]- β -D-glucopyranoside = 17163
- 6,12-Dihydroxyabieta-5,8,11,13-tetraen-7-one = 5747
- 7 β ,15 β -Dihydroxy-6 β -acetoxy-7 α ,20-epoxy-11 β ,12 β -epoxy-ent-kaur-16-ene = 16177
- 7 β ,13 α -Dihydroxy-1 α -acetoxy-7 α ,20-epoxy-ent-kaur-16-en-15-one = 6790
- 3 β ,11 β -Dihydroxy-6 α -acetoxy-ent-kaur-16-en-15-one = 13700
- 24,25-Dihydroxy-3 α -acetoxylanost-8-en-21-oic acid = 7861
- 4,5-cis-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one = 431
- 4,5-trans-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one = 429
- 1 β ,11 α -Dihydroxy-6 β -acetoxy-6,7-seco-6,19-epoxy-7,20-olide-ent-kaur-16-en-15-one = 16176

- 4,5-*trans*-4,5-Dihydroxy-5-(1-acetoxytridecyl)-2-cyclopenten-1-one = 427
 5,7-Dihydroxy-2-(1-acetyl-2-methoxycarbonylethyl)-chromone = 19428
 3,4-Dihydroxy-allylbenzene-4-*O*- β -*D*-glucopyranoside = 7525
 3 α ,17 α -Dihydroxy-5 β -androstane = 1163
 3 α ,17 β -Dihydroxy-5 β -androstane = 1164
 3 β ,17 α -Dihydroxy-5 α -androstane = 1167
 3 β ,22 α -Dihydroxy-16 α -angeloyloxy-28 \rightarrow 13-lactone-oleanane-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-Arabinopyraosyl]-22-*O*-(6-acetyl)- β -*D*-glucopyranoside = 3128
 1,3-Dihydroxy-9,10-antraquinone = 18224
 1,8-Dihydroxy-antraquinone = 3599
 1,3-Dihydroxy-9,10-antraquinone 3-*O*- β -*D*-glucoside = 22773
 7 β ,19 α -Dihydroxyarbor-9(11)-en-3-one = 19018
 19-*O*-(3,4-Dihydroxybenzoyl)-11,12-dihydroxy-20(10 \rightarrow 5)-abeo-abieta-1(10),6,8,11,13-tetraene = 17553
rel-4 α -(2,4-Dihydroxybenzoyl)-3 β -(4-hydroxybenzoyl)-2 α -(2,4-dihydroxyphenyl)-5 α -(4-hydroxyphenyl)tetrahydrofuran = 15916
 3-(2,4-Dihydroxy-benzoyl)-4-hydroxy-2,7-bis-(4-hydroxy-phenyl)-7,8-dihydro-furo[2,3-*f*]chromen-9-on = 7823
 4,4'-Dihydroxy-2'-benzoyloxy-5'-methoxy [1,1':4,1"-terphenyl]-3',6'-dione = 21301
 1-[3-(2,4-Dihydroxy-benzoyl)-4,5,6-trihydroxy-2-(4-hydroxy-phenyl)-benzofuran-7-yl]-3-(4-hydroxy-phenyl)-propenone = 7822
 3,4-Dihydroxybenzyl aldehyde = 17968
 4,4'-Dihydroxybenzyl ether = 2458
 10-(3,4-Dihydroxybenzyl)-isorhapontigenin = 8898
 8,9-Dihydroxy-4,4-bis-(3,3-dimethylallyl)-6-methyl-2,3-(2,2-dimethylpyrano)anthrone = 9242
 3,3'-Dihydroxy-2,6-bis(4-hydroxybenzyl)-5-methoxybibenzyl = 2456
 1,3-Dihydroxy-2,6-bis(3-methyl-2-butenyl)-2,2-dimethylchromeno(5^{'''},6^{'''}:8,7)xanthone = 6626
 2,5-Dihydroxy-3,6-bis(3-methylbut-3-en-1-ynyl)benzaldehyde = 20332
 7,7'-Dihydroxyburschermin 4- β -*D*-glucoside = 20420
 2,3-Dihydroxybutanedioic acid = 20715
 3,3'-Dihydroxy- β -carotene-4,4'-dione = 1921
 3,9-Dihydroxy-10-*c,c*-dimethylallylpterocarpan = 17048
 3 α ,7 α -Dihydroxy-5 β -cholic acid = 3511
 (25*S*)-12 α ,16 β -Dihydroxycholest-4-en-3-one 16-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranoside = 16880
 5,7-Dihydroxy-chromone-3- α -*L*-rhamnopyranoside = 22101
trans-3,4-Dihydroxycinnamic acid = 2887
 6'-(3'',4''-Dihydroxycinnamoyl)arbutin = 18878
 2 α ,12-Dihydroxycopacamphan-15-one 2-*O*- β -*D*-glucopyranoside = 5116
 16,24-Dihydroxycycloart-20,25-dien-3-one diacetate = 1670
 22*S*-3 β ,16 α -Dihydroxy-cycloart-24-en-26,22-olide 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside = 1550
 22*S*-3 β ,16 α -Dihydroxy-cycloart-24-en-26,22-olide-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside = 1551
 16,24-Dihydroxycycloart-25-en-3-one = 1671
 3 β ,12 β -Dihydroxy-dammar-20(22),24-diene-3-*O*- β -*D*-glucopyranoside = 8438
 [20*S*]-3 β ,20-Dihydroxy-24-dammaren-12,23-dione-3-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 9182
 20,21-Dihydroxydammar-24-en-3-one = 6610
 1 α ,3 β -Dihydroxy-7 β ,11 β -diacetoxy-*ent*-kaur-16-en-15-one = 611
 1 α ,11 β -Dihydroxy-3 β ,6 α -diacetoxy-*ent*-kaur-16-en-15-one = 13705
 1 α ,11 β -Dihydroxy-3 β ,7 β -diacetoxy-*ent*-kaur-16-en-15-one = 610
 2 α ,9 α -Dihydroxy-10 β ,13 α -diacetoxy-5 α -(3'-*N*-methylamino-3'-phenyl)-propionylxytaxa-4(20),11-diene = 5138
 (4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta-[*c*]furan-4-acetic acid = 17484
 (4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta-[*c*]furan-4-acetic acid methyl ester = 17485
 (4*S*,5*R*,6*S*)-5,6-Dihydroxy-5,6-dihydro-4*H*-cyclopenta[*c*]furan-4-ethanol = 17483
 (3*R*,5*R*,7*R*)-3,5-Dihydroxy-5,6-dihydro-6,7-dehydro- β -ionol = 1338
 7,4'-Dihydroxy-8-[(2^{'''},3^{'''}-dihydroxy-3^{'''}-methyl)butyl]-2^{''},2^{''}-dimethyl-3^{''},4^{''}-dehydroprano[1^{''},4^{''}:5,6]isoflavone = 22604
 \pm {(2*E*)-1-[2,4-Dihydroxy-3-(2,3-dihydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one} = 22765
 5,7-Dihydroxy-8-(2,3-dihydroxy-3-methylbutyl)-6-(2-methyl-1-oxobutyl)-4-phenyl-2*H*-[1]benzopyran-2-one = 6513
 1,2-Dihydroxy-3-[12-(2,3-dihydroxyphenyl)-(Z)-dodeca-4-enyl]benzene = 8361
 1,2-Dihydroxy-3-[12-(2,3-dihydroxyphenyl)dodecyl]benzene = 8360
 1,2-Dihydroxy-3-[16-(2,3-dihydroxyphenyl)-(Z,Z)-hexadeca-5,8-dienyl]benzene = 8365
 1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)-(Z,Z)-tetradeca-3,6-dienyl]benzene = 8364
 1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)-(Z)-tetradec-6-enyl]benzene = 8363
 1,2-Dihydroxy-3-[14-(2,3-dihydroxyphenyl)tetradecyl]benzene = 8362
 2,8-Dihydroxy-1,3-dimethoxyanthraquinone = 18871
 1,8-Dihydroxy-9,10-dimethoxy-[1]benzopyrano-[3,2-*c*][2]-benzopyran-7(5*H*)-one = 11167
 1,10-Dihydroxy-8,9-dimethoxy-[1]benzopyrano-[3,2-*c*][2]-benzopyran-7(5*H*)-one = 11168
 2,7-Dihydroxy-4,8-dimethoxy-1,3-dimethyl-9,10-dihydrophenanthrene = 20293
 3',7-Dihydroxy-4',6-dimethoxyflavone = 11
 4',5-Dihydroxy-3,7-dimethoxyflavone = 12331
 5,6-Dihydroxy-7,4'-dimethoxyflavone = 12448
 4',5-Dihydroxy-3,7-dimethoxyflavone-4'-*O*- β -*D*-glucopyranoside = 3027
 5,7-Dihydroxy-6,4'-dimethoxyisoflavone = 11171
 5,7-Dihydroxy-6,4'-dimethoxyisoflavone-7-*O*- α -*D*-glucopyranoside = 11172
 1,6-Dihydroxy-7,8-dimethoxy-2-methyl-9,10-antraquinone = 18828
 1,6-Dihydroxy-3,5-dimethoxy-2-(3-methylbut-2-enyl)xanthone = 4197
 1,6-Dihydroxy-3,7-dimethoxy-2-(3-methylbut-2-enyl)-xanthone = 4196
 2,5-Dihydroxy-1,7-dimethoxy-6-methyl-9,10-dihydrophenanthrene = 20292
 2,7-Dihydroxy-1,5-dimethoxy-6-methyl-9,10-dihydrophenanthrene = 20291
 (2*R*,3*R*)-3,4'-Dihydroxy-5,7-dimethoxy-8-methylflavan = 22115
 1,4-Dihydroxy-7,8-dimethoxy-2-methyl-5,6-methylenedioxyanthraquinone = 18875
trans-3,3'-Dihydroxy-2',5-dimethoxystilbene = 17198
 {5,5'-Dihydroxy-8-(γ,γ -dimethylallyl)-[6^{''},6^{''}-dimethyl-4^{''},5^{''}-dihydroprano(2^{''},3^{''}:7,6)]-[6^{'''},6^{'''}-dimethylpyrano(2^{'''},3^{'''}:4',3')]}-coumaronochromone = 7891
 5,7-Dihydroxy-8-(γ,γ -dimethylallyl)-[6^{''},6^{''}-dimethyl-4^{''},5^{''}-dihydroprano(2^{''},3^{''}:4',3')]-flavanone = 7486
 2',4'-Dihydroxy-8- γ,γ -dimethylallyl-2^{''},2^{''}-dimethylpyrano-[5,6:6,7]isoflavan = 7357

- 4',7-Dihydroxy-8-(3,3-dimethylallyl)flavan = 2627
- 7,4'-Dihydroxy-8-(γ,γ -dimethylallyl)-2'' ζ -(4''-hydroxyisopropyl)dihydrofuran [1'',3'';5,6]isoflavone = 22603
- 5,7-Dihydroxy-6(γ,γ -dimethylallyl)-8-(2'''-hydroxy-3'''-methylbut-3'''-enyl)-4'-(1''-hydroxymethylpenta cosanyl)isoflavone = 11015
- 7,4'-Dihydroxy-3'- γ,γ -dimethylallyl isoflavone = 15342
- 5,7-Dihydroxy-6,8-di(3-methylbut-2-enyl)flavanone = 20170
- 6,8-Dihydroxy-2,7-dimethyl-4*H*-chromen-4-one = 6622
- 7,4'-Dihydroxy-2'',2''-dimethyl-3'',4''-dehydropyrano[1'',4'':5,6]flavone = 22605
- 7,3'-Dihydroxy-6'',6''-dimethyl-4'',5''-dehydropyrano [2'',3'':4',5']isoflavone = 7306
- {5,5'-Dihydroxy-8-[6'',6''-dimethyl-4'',5''-dihydropyrano-(2'',3'':7,8)]-[6''',6'''-dimethylpyrano-(2''',3''':4',3')]}-coumaronochromone = 7892
- 1,5-Dihydroxy-6'',6''-dimethyldihydropyrano(2',3':3,2)-6'',6''-dimethylpyrano-(2'',3'':6,7)xanthone = 15580
- N*-(2,4-Dihydroxy-3,3-dimethyl-1-oxobutyl)- β -alanine = 22555
- 5,2'-Dihydroxy-[(6'',6''-dimethylpyrano(2'',3'':4',5'))][(6''',6'''-dimethylpyrano(2''',3''':7,6))]-isoflavone = 12291
- 1,7-Dihydroxy-6'',6''-dimethylpyrano(2',3':3,2)-6'',6''-dimethylpyrano(2'',3'':6,5)xanthone = 15582
- 7,2'-Dihydroxy-6'',6''-dimethylpyrano-(2'',3'':4',3')isoflavone = 8501
- 1,5-Dihydroxy-6'',6''-dimethylpyrano(2',3':3,2)xanthone = 5184
- 1,7-Dihydroxy-6'',6''-dimethylpyrano(2',3':3,4)xanthone = 15579
- 1,7-Dihydroxy-6'',6''-dimethylpyrano(2',3':6,5)xanthone = 15581
- 1-[5,7-Dihydroxy-2,2-dimethyl-6-(2,4,6-trihydroxy-3-isobutyryl-5-methylbenzyl)-2*H*-chromen-8-yl]-2-methylbutan-1-one = 13433
- (7*S*,8*R*)-4,9'-Dihydroxy-3,3'-dimethoxy-1,7,8-dihydrobenzofuran-1'-propanol neolignan-9-*O*- α -*L*-rhamnopyranoside = 13586
- 1 α ,20*R*-Dihydroxyecdysone = 10063
- 5 β ,20*R*-Dihydroxyecdysone = 10066
- 1 α ,20*R*-Dihydroxyecdysone 3-*O*- β -*D*-glucoside = 10064
- 2,20(*S*)-dihydroxy-16 α ,23(*R*)-epoxycucurbita-5,24-diene-3,11-dione 2-*O*- β -glucopyranoside = 12214
- 2,20(*S*)-dihydroxy-16 α ,23(*S*)-epoxycucurbita-5,24-diene-3,11-dione 2-*O*- β -glucopyranoside = 12215
- (1*R**,4*S**,5*R**,6*S**,7*R**,10*R**)-4,6-Dihydroxy-7,10-epoxy-1,5-*trans*-guaiane = 16192
- (2*R*)-Dihydroxy-3,10-epoxy-8-isobutyloxygermacra-11-(13)-en-6,12-olide = 10769
- 16(*S*)-6 β ,17-Dihydroxy-3 α ,20-epoxy-*ent*-kaur-1,7,15-trione = 12588
- 3 β ,17 β -Dihydroxy-14,20-epoxy-1-oxo-22*R*-witha-5,24-dienolide = 812
- 1 β ,6 α -Dihydroxy-eudesman-4(15)-ene = 7504
- 1 β ,5 α -Dihydroxyeudesman-4(15)-ene = 7505
- 1 β ,7 α -Dihydroxyeudesman-4(15)-ene = 7506
- (1*R*,4*S*,5*R*,7*R*,10*S*)-1,11-Dihydroxy-eudesman-14,4-olide 11-*O*- β -*D*-glucopyranoside = 3378
- 1 β ,11-Dihydroxy-eudesman-4,14-oxide 11-*O*- β -*D*-glucopyranoside = 3379
- 1 β ,6 β -Dihydroxy-*cis*-eudesm-3-ene-6-*O*- β -*D*-glucopyranoside = 12919
- (1*R*,5*R*,6*S*,7*S*,9*S*,10*S*,11*R*)-1,9-Dihydroxyeudesm-3-en-12,6-olide 9-*O*- β -*D*-glucopyranoside] = 4359
- (2*S*)-7,4'-Dihydroxyflavan = 5894
- 4,7-Dihydroxyflavanone = 12908
- 5,7-Dihydroxyflavone = 3600
- 4 α ,12 α -Dihydroxy-8(17)-fusicoccene = 8034
- 9,14-dihydroxy-1(10),4-germacratrien-12,8-olide[1(10)*E*,4*E*,8 α ,9 β] = 20149
- 2,4-Dihydroxy-10(14),11(13)-guaidien-12,8-olide = 7836
- 4 β ,5 β -Dihydroxy-7(11),9-guaidien-8-one = 17874
- 2 α ,21 β -Dihydroxyhederagenin-3-*O*- β -*D*-glucopyranoside = 13062
- 11,13-Dihydroxyhetisan-2-one = 9472
- 4,5-*cis*-4,5-Dihydroxy-5-(1-hydroxyheptadecyl)-2-cyclopenten-1-one = 10838
- 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)chromone = 20936
- 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)-6-methoxychromone = 20934
- 5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenoxy)-6-methoxychromone = 20935
- 1-[2',4'-Dihydroxy-5'-(2''-hydroxy-3''-methyl-3''-butenyl)-6'-methoxy]acetophenone = 574
- 1-[2,4-Dihydroxy-3-(4-hydroxy-3-methyl-2-butenyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one = 10830
- 5,7-Dihydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-6-(2-methyl-1-oxobutyl)-4-propyl-2*H*-[1]benzopyran-2-one = 6516
- 5,7-Dihydroxy-8-(2-hydroxy-3-methylbut-3-enyl)-6-(2-methyl-1-oxopropyl)-4-phenyl-2*H*-[1]benzopyran-2-one = 6515
- (2*E*)-1-[2,4-Dihydroxy-3-(3-hydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one = 22766
- (2*R*)-2-[(1*S*,2*S*)-1,2-Dihydroxy-8-[(2*R*,3*R*,4*R*,5*R*)-5-(2-hydroxymethyl-3,4-dihydroxy-1-acetylpyrrolidinyl)]octyl]piperidine = 2636
- (2*R*)-2-[(1*S*,2*S*)-1,2-Dihydroxy-8-[(2*R*,3*R*,4*R*,5*R*)-5-(2-hydroxymethyl-3,4-dihydroxypyrrrolidinyl)]octyl]piperidine = 2637
- 1,8-Dihydroxy-3-hydroxymethyl-6-methoxyanthraquinone = 7710
- (10*R**S*,11*R**S*)-(2*E*,6*Z*,8*E*)-10,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide = 23026
- (6*R**S*,11*R**S*)-(2*E*,7*E*,9*E*)-6,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,7,9-dodecatrienamides = 23027=23028
- 4,5-*cis*-4,5-Dihydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one = 10837
- 6,7-Dihydroxy-3-(2-hydroxy-propyl)-7-methyl-1,5,6,7-tetrahydro-isochromen-8-one = 14915
- 4,5-*trans*-4,5-Dihydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one = 10836
- (*Z*)-(-)-3,6-Dihydroxy-2-icos-14-enoyl-cyclohex-2-enone = 20495
- 22,23-Dihydroxy-iridal-3,16-di- β -*D*-glucopyranoside = 11140
- 4',7-Dihydroxyisoflavone = 4604
- 22,23-Dihydroxy-isoiridal-3,16-di- β -*D*-glucopyranoside = 11139
- 16 α ,17-Dihydroxy-*ent*-kauran-19-oic acid 16-*O*- β -*D*-glucopyranoside 19-*O*- β -*D*-glucopyranosyl ester = 93
- 3 β ,25-Dihydroxylanosta-8,23*E*dien-21-oic acid = 19321
- 3,24-Dihydroxylanosta-8,25-dien-21-oic acid = 19322
- 3 β ,24*R*-Dihydroxylanosta-8,25-dien-21-oic acid = 19323
- (7*S*,8*R*)9,9'-Dihydroxyl-3,3'-dimethoxy-1,7,8-dihydrobenzofuran-1'-propanol neolignan-4-*O*- α -*L*-rhamnopyranoside = 13585
- (2*R*)-7,4'-Dihydroxyflavan = 22116
- 2,6-Dihydroxyl-3-geranyl-5-isoprenyl-2,5-dihexadiene-1,4-dione = 7223
- 15,19-Dihydroxyl 8(17)-13(*E*)-labdatriene = 12402
- (8*R*)-3 β ,4 β -Dihydroxyl-14-oxo-5 α -15(14 \rightarrow 8)-abeo-card-20(22)-enolide = 8005
- 1-(2',3'-Dihydroxyphenyl)-2-*n*-heptyl-1-nonene-3-one = 18823
- 3 α ,11 α -Dihydroxylup-23-al-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-gluco-pyranosyl ester = 74
- 2 α ,3 β -Dihydroxylup-20(29)-en-28-oic acid = 984
- 3,19-Dihydroxy-20(29)-lupen-12-one = 3842
- (3*S*,5*R*,6*S*,9*R*)-3,9-Dihydroxymegastigmane di-*O*- β -*D*-glucopyranoside = 17521

- (2*R*,9*R*)-2,9-Dihydroxymegastigman-5-ene 9-*O*- β -*D*-glucopyranoside = 17527
 (3*S*,9*R*)-3,9-Dihydroxymegastigman-5-ene 3-*O*-primeveroside = 17525
 (3*S*,4*S*,6*S*,7*E*)-3,4-Dihydroxymegastigman-7-en-9-one-4-*O*- β -*D*-glucopyranoside = 12530
 (2*S*,9*R*)-2,9-Dihydroxymegastigman-5-en-4-one 2-*O*- β -*D*-glucopyranoside = 22129
 6,6'-Dihydroxy-4'-methoxy-2-arylbenzofuran = 2539
 2,5-Dihydroxy-4-methoxybenzophenone = 3346
 2,6-Dihydroxy-4-methoxy-3,5-bis(3-methyl-2-butenyl)benzophenone = 22550
 (3*R*)-7,4'-Dihydroxy-2'-methoxy-6,8-di(γ , γ -dimethylallyl)isoflavanone = 7355
 (6*aS*,11*aS*)-3,6*a*-Dihydroxy-9-methoxy-4,10-di(γ , γ -dimethylallyl)pterocarpan = 7358
 1,5-Dihydroxy-3-methoxy-4-(2,3-dihydroxy-3-methylbutyl)xanthone = 15576
 (-)-7,3'-Dihydroxy-4'-methoxy-5'-(γ , γ -dimethylallyl)flavanone = 7307
 7,3'-Dihydroxy-4'-methoxy-5'-(γ , γ -dimethylallyl)isoflavone = 7305
 3,6*a*-Dihydroxy-9-methoxy-10- γ , γ -dimethylallylpterocarpan = 4243
 5,7-Dihydroxy-4'-methoxyflavone = 56
 4',5-Dihydroxy-7-methoxy flavone = 8289
 5,4'-Dihydroxy-7-methoxyflavone 8-*C*-glucopyranoside = 11724
 5,7-Dihydroxy-4'-methoxyflavone-7-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 15347
 1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)-6',6'-dimethylpyrano-(2',3':6,7)xanthone = 15575
 1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)xanthone = 15574
 7,2'-Dihydroxy-4'-methoxyisoflav-3-ene = 16545
 5,7-Dihydroxy-4'-methoxyisoflavone = 2384
 7,3'-Dihydroxy-4'-methoxyisoflavone = 3004
 2',7-Dihydroxy-4'-methoxyisoflavone = 22783
 7,8-Dihydroxy-4'-methoxyisoflavone 8-*O*- β -glucopyranoside = 5222
 7,8-Dihydroxy-4'-methoxyisoflavone 7-*O*-[α -rhamnopyranosyl-(1 \rightarrow 6)]- β -glucopyranoside = 5223
 2,4-Dihydroxy-6-methoxy-3-methyl acetophenone 4-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 6668
 2,8-Dihydroxy-1-methoxy-3-methylanthraquinone = 15900
 1,7-Dihydroxy-6-methoxy-2-methylanthraquinone = 18872
 5,7-Dihydroxy-4'-methoxy-3'-(3-methylbutadienyl)-5'-(3-methylbut-2-enyl)-avanone = 2774
 1-[2',4'-Dihydroxy-6'-methoxy-3'-(3"-methylbutanoyl)-5'-(3"-methylbut-2"-enyl)]acetophenone = 573
 1,6-Dihydroxy-7-methoxy-8-(3-methylbut-2-enyl)6',6'-dimethylpyrano(2',3':3,2)xanthone = 1277
 1,5-Dihydroxy-3-methoxy-2-(3-methylbut-2-enyl)-xanthone = 5925
 1,7-Dihydroxy-3-methoxy-2-(3-methylbut-2-enyl)xanthone = 5926
 1,6-Dihydroxy-5-methoxy-7-(3-methylbut-2-enyl)xanthone = 8556
 2',2"-Dihydroxy-4'-methoxy-4",5"-methylenedioxybenzil = 19453
 5,4'-Dihydroxy-3'-methoxy-6,7-methylenedioxyisoflavone = 11152
 9,10-Dihydroxy-8-methoxy-3,4-methylenedioxy-phenanthrene-1-carboxylic acid lactone = 1724
 6 β ,11*a*-Dihydroxy-16*a*-methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide = 20620
 (2*R*,3*R*)-3,4'-Dihydroxy-7-methoxy-8-methylflavan = 22114
 5,7-Dihydroxy-8-methoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one = 16140
 3,5-Dihydroxy-7-methoxy-2-phenyl-4*H*-1-benzopyran-4-one = 11806
 1-(2,6-Dihydroxy-4-methoxyphenyl)-11-(2,6-dihydroxyphenyl)undecan-1-one = 1647
 2-[3',4'-Dihydroxy-2'-methoxyphenyl]-4-hydroxy-6-methoxy-benzofuran-3-carbaldehyde = 3007
 4',7-Dihydroxy-3'-methoxy-5'-prenylflavanone = 5146
 1,6-Dihydroxy-5-methoxyxanthone = 2694
 8 β -(2',3'-Dihydroxy-2'-methoxybutanoxy)-2*a*-hydroxy-6 β *H*,7*aH*-germacra-1(10)-*E*,4*E*,11(13)-triene-6,12-olide = 7547
 5,7-Dihydroxy-8-methyl-6-aldehydo-3-(4'-methoxybenzyl) chromone = 876
 1,8-Dihydroxy-3-methyl-9(10*H*)-anthracenone-10-oxohexadecanoate = 12235
 1,8-Dihydroxy-3-methyl-9(10*H*)-anthracenone-10-oxytetradecanoate = 12234
 1,8-Dihydroxy-3-methyl-9-anthrone = 3598
 1,6-Dihydroxy-5-(3-methyl-2-butenyl)-2',2"-dimethylchromeno(5',6':2,3)-2"',2"'-dimethylchromeno(5"',6"',8,7)xanthone = 6629
 1,7-Dihydroxy-8-(3-methylbut-2-enyl)-6',6'-dimethylpyrano(2',3':3,2)-xanthone = 5064
 5,4'-Dihydroxy-6-(3"-methylbut-2"-enyl)-2"-hydroxyisopropyl dihydrofuran[4",5":8,7]isoflavone = 11711
 1,6-Dihydroxy-2-(3-methyl-2-butenyl)-3-methoxy-2",2"-dimethylchromeno(5",6":8,7)-xanthone = 6631
 6-((*S*)-3,4-Dihydroxy-2-methylenebutanoate)-*D*-glucopyranose = 22106
 1,8-Dihydroxy-9,10-methylenedioxy-[1]benzopyrano-[3,2-*c*][2]-benzopyran-7(5*H*)-one = 11169
 5,4'-Dihydroxy-6,7-methylenedioxyisoflavone = 11158
 3*a*,15*a*-Dihydroxy-24-methylene-lanosta-7,9(11)-dien-21-oic acid = 7857
 3*a*,15*a*-Dihydroxy-24-methylene-lanost-8-en-21-oic acid = 20480
 1,8-Dihydroxy-3-methyl-6-methoxy-9(10*H*)-anthracenone-10-oxydecanoate = 12233
 1-[5,7-Dihydroxy-2-methyl-6-(3-methyl-but-2-enyl)-2-(4-methyl-pent-3-enyl)-2*H*-chromen-8-yl]-3-(3,4-dihydroxy-phenyl)-propenone = 13437
 3,5-Dihydroxy-2-methyl-1,4-naphthoquinone = 6605
 5,7-Dihydroxy-8-(2-methyl-1-oxobutyl)-4-phenyl-2*H*-[1]benzopyran-2-one = 11380
 1,4-Dihydroxy-2-(4-methylpent-3-enyl)-anthraquinone = 1369
 (*rel*)-4,6-Dihydroxy-5-[3-methyl-(*E*)-propenoic acid-3-yl]-7 β -glucopyranosyl-{2*a*,3 β -dihydrobenzofuran}-(3,2:*b*)-[4*a*,5 β -dihydroxy-6*a*-hydroxymethyl tetrahydropyran] = 18513
 5,8-Dihydroxy-1,4-naphthoquinone = 15253
 16 β ,17-Dihydroxy-18-nor-*ent*-kauran-4 β -hydroperoxide = 1331
 3,24-Dihydroxy-30-nor-12,20(29)-oleanadien-28-oic acid = 18419
 3 β ,23-Dihydroxy-30-norolean-2,20(29)-dien-28-oic acid 3-*O*- α -*L*-arabino-pyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyluronic acid-(1 \rightarrow 3)]- α -*L*-arabino-pyranoside = 7725
 3 β ,23-Dihydroxy-30-norolean-12,20(29)-dien-28-oic acid 3-*O*-methyl β -*D*-glucopyranosyluronate-(1 \rightarrow 3)- α -*L*-arabino-pyranoside = 7726
 3 β ,20*a*-Dihydroxy-29-norolean-12-en-28-oic acid 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 7723
 3 β ,17 β -Dihydroxy-28-norolean-12-en-16-one 3-*O*-[α -*L*-rhamnopyranoside-(1 \rightarrow 2)- β -*D*-glucuronopyranoside] = 20429
 2 β ,7 β -Dihydroxynortropine = 7299
 3 β ,16*a*-Dihydroxy-olean-12-en-28-*al*-3-*O*- β -*D*-glucopyranosyl-23-*O*- α -*D*-ribofuranoside = 3073
 3 β ,16*a*-Dihydroxyolean-12-en-23,28-dioic acid 28-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 3)][β -*D*-glucopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl ester = 19936
 3 β ,16*a*-Dihydroxyolean-12-en-23,28-dioic acid 28-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 3)][β -*D*-6-*O*-(3-hydroxy-5-methoxy-3-methyl-5-oxopentanoyl)gluco-

- pyranosyl(1→6)]- β -D-glucopyranosyl ester = 19938
- 3 β ,16 α -Dihydroxyolean-12-en-23,28-dioic acid 28-O-[β -D-glucopyranosyl(1→3)]-[β -D-6-O-(3R)-3-hydroxy-3-methylglutaryl]glucopyranosyl(1→6)]- β -D-glucopyranosyl ester = 19937
- 3 β ,30-Dihydroxy-olean-12-en-23,28-dioic acid 28-O- α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→6)]- β -D-glucopyranoside = 68
- 3 β ,23-Dihydroxy-olean-12-ene-28,29-dioic acid 28-O- α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→6)]- β -D-glucopyranoside = 67
- 3 β ,16 α -Dihydroxyolean-12-ene-28-oic acid 3-O- β -D-glucopyranoside = 6705
- 3 β ,22 α -Dihydroxyolean-12-en-29-oic acid = 27
- 2,3-Dihydroxy-12-oleanen-28-oic acid = 4219
- 3 β ,29-Dihydroxyolean-12-en-28-oic acid = 13799
- 3 β ,23-Dihydroxy-olean-12-en-28-oic acid 3-O-methyl β -D-glucopyranosyluronate-(1→3)- α -L-arabinopyranoside = 7727
- 3 β ,15 α -Dihydroxy-olean-12(13)-en-16-one = 6061
- 16 α -28-dihydroxyolean-12-en-21-one-3-O- α -L-rhamnopyranosyl-(1→2)- β -D-galactopyranosyl-(1→3)]- β -D-glucopyranosyl-(1→2)- β -D-glucuronopyranoside] = 2315
- 8 β ,15-Dihydroxy-2-oxo-guaia-1(10),3,11(13)-trien-5 α ,6 β ,7 α H-12,6-olide = 12446
- 24S,25-Dihydroxy-3-oxolanost-8-en-21-oic acid = 7860
- 3 β ,24 α -Dihydroxy-16-oxo-oleana-11,13(18)-dien-30-oic acid = 8861
- 3 β ,28-dihydroxy-16-oxo-12-oleanene = 19466
- 3 β ,24-Dihydroxy-16-oxo-olean-12-en-29-oic acid = 8857
- 3,16-Dihydroxy-23-oxo-12-oleanen-28-oic acid = 18418
- 6 β ,28-Dihydroxy-3-oxoolean-12-en-23-oic acid 23-O- α -L-arabinopyranosyl ester = 8131
- 21 β ,22 β -Dihydroxy-3-oxours-12-en-28-al = 4042
- 3 α ,19 α -Dihydroxy-2-oxo-12-ursen-28-oic acid = 16410
- 20 β ,27-Dihydroxy-1-oxo-(22R)-witha-2,5,24-tetraenolide = 22699
- 3 β ,7 β -Dihydroxy-4 α -4 β ,8 β ,10 β ,14 α -pentamethyl-5 α -gon-16-en-2-one 3-O-[β -D-glucopyranoside-(1→2)- β -D-glucopyranoside] = 20428
- 3,4-Dihydroxy- β -phenethanol-3-O- β -D-galactopyranoside = 3653
- 3,4-Dihydroxy- β -phenethanol-3-O- β -D-glucopyranoside = 3654
- 3,4-Dihydroxy- β -phenethyl-O- β -D-glucopyranosyl-(1→3)-4-O-caffeoyl- β -D-glucopyranoside = 18219
- 3,4-Dihydroxy- β -phenethyl-O- β -D-glucopyranosyl-(1→3)-O- α -L-rhamnopyranosyl-(1→6)-4-O-caffeoyl- β -D-glucopyranoside = 18220
- 2-(3,4-Dihydroxyphenethyl)-O- α -L-lyxopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-4-O-3,4-dimethoxy-*trans*-cinnamoyl- β -D-glucopyranoside = 21214
- 2-(3,4-Dihydroxyphenethyl)-O- α -L-lyxopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-4-O-*trans*-feruloyl- β -D-glucopyranoside = 21215
- 3-(2,4-dihydroxyphenoxy)-8-(3,3-dimethylallyl)-2,2-dimethylpyran[5,6:6,7]chromen-4-one = 7351
- 3-(2,4-Dihydroxyphenoxy)-7-hydroxy-6,8-di(3,3-dimethylallyl)chromen-4-one = 7350
- (2,5-Dihydroxyphenyl)acetic acid = 9608
- 2-(3,4-Dihydroxyphenylacetyl)- β -D-glucopyranosyl (*E*)-2-methyl-but-2-en-4-ol = 10854
- L-3,4-Dihydroxyphenylalanine = 6558
- 2-(3,4-Dihydroxyphenyl)-4,6-dihydroxybenzofuran-3-carboxylic acid methyl ester = 16246
- 3-(3,4-Dihydroxy-phenyl)-1-[6-(3,7-dimethyl-octa-2,6-dienyl)-5,7-dihydroxy-2,2-dimethyl-2H-chromen-8-yl]-propenone = 13436
- 1,2-O-[2S-(3,4-Dihydroxyphenyl)-1,2-ethanediyl]-3-O- α -L-rhamnopyranosyl-4-O-feruloyl- β -D-glucopyranoside = 14261
- 7 β -(3,4-Dihydroxyphenyl)-ethane 7,8-(2',1'-O- β -D-glucopyranosyl)-7,8-diol = 4362
- 7 α -(3,4-Dihydroxyphenyl)-ethane 7,8-(2',1'-O- β -D-glucopyranosyl)-7,8-diol = 4363
- 2-(3,4-Dihydroxy) phenyl ethanol (1→1) (2→2)-[(1→3)-rhamnopyranosyl-4-O-caffeoyl] glucoside = 16161
- 2-(3,4-Dihydroxyphenyl)-*R,S*-2-ethoxy-ethyl-O- β -D-glucopyranosyl(1→4)- α -L-rhamnopyranosyl(1→3)(4-O-*trans*-caffeoyl)- β -D-glucopyranoside = 18927
- 3,4-Dihydroxyphenylethyl alcohol (2-O-feruloyl)- β -D-glucopyranoside = 2085
- 2-(3,4-Dihydroxyphenyl)ethyl O- β -apiofuranosyl-(1→6)-O-[O- β -apiofuranosyl-(1→4)- α -rhamnopyranosyl-(1→3)]-4-O-(*E*)-caffeoyl- β -glucopyranoside = 13074
- 2-(3,4-Dihydroxyphenyl) ethyl-O- β -D-apiofuranosyl-(1"→6')- β -D-glucopyranoside = 4364
- 2-(3,4-Dihydroxyphenyl)ethyl-O- α -L-arabinopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-O-*trans*-feruloyl)- β -D-glucopyranoside = 22416
- 3,4-Dihydroxy- β -phenylethyl caffeate, 9'-Decarboxyrosmarinic acid = 21216
- [2-(3,4-Dihydroxyphenylethyl)]-3-O- α -D-apiofuranosyl-(1→4)-(4-O-caffeoyl)- β -D-glucopyranoside = 4419
- 2-(3,4-Dihydroxy-phenyl)-ethyl-O- β -D-glucopyranoside = 6081
- 2-(3,4-dihydroxyphenyl)-ethyl-O- β -D-glucopyranosyl-(1→6)-3-O-*trans*-caffeoyl- β -D-glucopyranoside = 11513
- 2-(3,4-Dihydroxyphenyl)ethyl-O- β -D-glucopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-O-*trans*-caffeoyl)- β -D-glucopyranoside = 22417
- 2-(3,4-Dihydroxyphenyl)ethyl-O- β -D-glucopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-(4-O-*trans*-feruloyl)- β -D-glucopyranoside = 22418
- [2-(3,4-Dihydroxyphenylethyl)]-3-O- β -D-xylopyranosyl-(1→3)-(4-O-caffeoyl)- β -D-glucopyranoside = 4420
- 7-(3,4-Dihydroxyphenyl)-5-hydroxy-1-(4-hydroxyphenyl)-3-heptanone-5-O- β -D-xylopyranoside = 959
- 1-(3,4-Dihydroxyphenyl)-5-hydroxy-7-(4-hydroxyphenyl)-3-heptanone-5-O- β -D-xylopyranoside = 960
- 3-[1-[[3-Di(4-hydroxyphenyl)methyl]2,4,6-trihydroxyphenyl]3-di(4-hydroxyphenyl)1-propanone-2-yl]5,7-dihydroxy-4H-1-benzopyran-4-one = 14895
- 1-(2,6-Dihydroxyphenyl)-octadec-8-en-1-one = 20491
- 13(2',3'-Dihydroxy-3'-phenyl)propionyl baccatin III = 22952
- 10,12-Dihydroxypicrotoxane 10,12-di-O- β -D-glucopyranoside = 5120
- 3,4-Dihydroxy-2-piperidinemethanol = 7705
- 1 β ,3 α -Dihydroxypregna-5,16-dien-20-one = 22117
- 2 β ,3 α -Dihydroxypregna-4,7,16-trien-12,20-dione = 21002
- (20S)-3 β ,16 β -dihydroxy pregn-5-ene-22-carboxylic acid (22,16)-lactone-3-O- β -chacotrioxide = 6636
- 11 β ,21-Dihydroxypregna-4-ene-3,20-dione = 4096
- 2-[(17,20-Dihydroxypregna-5-en-3-yl)oxy]-4-methoxy-6-methyl-2H-pyran-3(6H)-one = 16942
- 4',5-Dihydroxy-3'-prenyl-2'',2''-dimethylchromeno-[7,8:6'',5'']isoflavone = 19451
- 4',7-Dihydroxy-3'-prenylflavanone = 51
- 3,16 α -Dihydroxy-3,4-seco-olean-4(24),12-dien-23,28-dioic acid 28-O-[β -D-glucopyranosyl(1→3)]{ β -D-6-O-(3R)-3-hydroxy-3-methylglutaryl]- glucopyranosyl(1→6)}- β -D-glucopyranosyl ester =

- 19940
- 3,16 α -Dihydroxy-3,4-seco-olean-4(24),12-dien-23,28-dioic acid 28-*O*-[β -*D*-6-*O*-(3-hydroxy-3-methylglutaryl)-glucopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl ester = 19939
- 3 β -21 α -Dihydroxy-14-sekogammasera-8(26),14(27)-diene = 16117
- (24*S*,25*S*)-1 β ,3 β -Dihydroxy-5 β -spirostan-24-yl-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 22655
- (25*R*)-12 β ,17 α -Dihydroxyspirost-4-en-3-one = 1864
- (25*S*)-3 β ,27-Dihydroxyspirost-5-en-12-one 27-*O*- β -*D*-glucopyranosyl-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranoside = 17643
- (25*S*)-3 β ,27-Dihydroxyspirost-5-en-12-one 27-*O*- β -*D*-glucopyranosyl-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 17644
- 5,2'-Dihydroxy-6,7,8,6'-tetramethoxyflavone = 20009
- 2,3-Dihydroxy-9,10-tetrahydroanthra-1,4-quinone = 6614
- 12 α ,14 β -Dihydroxy-2 α ,3 β -(tetrahydro-3',5'-dihydroxy-4'-methoxy-6'-methyl-2*H*-pyran-2',4'-diylbisoxo)-card-4,20-dienolide = 7981
- 8,9-Dihydroxy-1,5,6,10b-tetrahydro-2*H*-pyrrolo[2,1-*a*]-isoquinolin-3-one = 16078
- (4*S*)-4,8-Dihydroxy- α -tetralone = 18588
- (4*S*)-4,5-Dihydroxy- α -tetralone 4-*O*- β -*D*-glucopyranoside = 11899
- (4*S*)-4,6-Dihydroxy- α -tetralone 4-*O*- β -*D*-glucopyranoside = 11900
- 5,5"-Dihydroxy-7,4',7",4""-tetramethoxy-[3 \rightarrow 6"]-biflavone = 20314
- 3,3'-Dihydroxy-4',5,6,7-tetramethoxyflavone = 7590
- 4',5-Dihydroxy-3,3',7,8-tetramethoxyflavone = 20978
- 9,9"-Dihydroxy-3,3",8,8""-tetramethyl-3,3"-bis-(4-methyl-3-pentenyl)-3,3",11,11""-tetrahydro-10,10""-(bipyranol[3,2-*a*]carbazole) = 2479
- 5b,7-Dihydroxy-2,2,10,10-tetramethyl-5b,13a-dihydro-2*H*,6*H*,10*H*-chromeno[6',7':4,5]furo[2,3-*b*]pyranol[3,2-*g*]chromene-6-one = 12294
- 7 β ,20-Dihydroxy-3,11,15,23-tetraoxolanost-8-en-26-oic acid = 8172
- 2,5-Dihydroxytoluene = 18270
- 11 β ,15 β -Dihydroxy-3 β ,6 α ,7 β -triacetoxy-*ent*-kaur-16-ene = 13704
- 11 β ,15 β -Dihydroxy-1 α ,3 β ,6 α -triacetoxy-*ent*-kaur-16-ene = 13707
- 3 β ,15 β -Dihydroxy-1 α ,7 β ,11 β -triacetoxy-*ent*-kaur-16-en-6-one = 614
- 3 β ,7 β -Dihydroxy-1 α ,11 β ,15 β -triacetoxy-*ent*-kaur-16-en-6-one = 615
- 4,4"-Dihydroxy-2,3',5'-tribenzoyloxy-6'-acetyloxy[1,1':4',1""-terphenyl] = 21304
- cis*-4,5-Dihydroxy-5-tridecanoyl-2-cyclopenten-1-one = 10839
- trans*-4,5-Dihydroxy-5-tridecanoyl-2-cyclopenten-1-one = 10840
- 5,4'-Dihydroxy-6,7,3'-trimethoxyflavone = 3741
- 5,7-Dihydroxy-3',4',6'-trimethoxyflavone = 7582
- 3',5-Dihydroxy-4',6,7-trimethoxyflavone = 7591
- 2',5-Dihydroxy-3,6,7-trimethoxyflavone = 11161
- 5,7-Dihydroxy-3,6,4'-trimethoxyflavone = 19312
- (*R*)-5,7-Dihydroxy-2',4',5',5'-trimethoxyisoflavanone = 5586
- 1,7-Dihydroxy-2,3,8-trimethoxy-6-methylanthraquinone = 15908
- trans*-3,3'-Dihydroxy-2',4',5-trimethoxystilbene = 17196
- trans*-3,4'-Dihydroxy-2',3',5-trimethoxystilbene = 17197
- 3,8-Dihydroxy-2,4,6-trimethoxyxanthone = 6165
- 3 β ,7 β -Dihydroxy-4,4,14 α -trimethyl-11,15-dioxo-5 α -chol-8-en-24-oic acid = 13038
- 3,23-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid = 8180
- 8,9-Dihydroxy-4,4,5-tris-(3,3-dimethylallyl)-6-methyl-2,3-(2,2-dimethylpyranol)anthrone = 9243
- 2,5-Dihydroxy-3-undecyl-2,5-cyclohexadiene-1,4-dione = 6767
- 3 β ,19 α -Dihydroxyurs-12-en-28-oic acid = 17696
- 1,7-Dihydroxyxanthone-7-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 17621
- 2 α ,3 β -Dihydroxy-24-*p*-*z*-coumaroyloxyurs-12-en-28-oic acid = 9073
- 2,(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4*H*-1-benzopyran-4-one = 18317
- 2,6-Diisobutyryloxy-3-geranyl-5-isoprenyl-2,5-dihexadiene-1,4-dione = 7224
- 12,20-Di-*O*-isovaleryl-tomentogenin-3-*O*- α -*L*-oleandropyranosyl-(1 \rightarrow 4)-*O*- α -*L*-oleandropyranoside = 6599
- 3',6'-Diketo-7-hydroxy-8,2',4'-trimethoxyisoflavan = 12568
- 3,20-Diketo-11 β ,18-oxido-4-pregnene-14,21-diol = 880
- Dilinolenin = 8815
- Dillapiole = 6193
- 2,6-Dimethoxy-*p*-benzoquinone = 6204
- 3 α ,6 β -Di-(4-methoxybenzoyloxy)tropane = 13784
- (2*S*,3*S*)-2 α -(3'',4''-Dimethoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) = 20427
- 7,7'-Dimethoxy-8,8'-bicumarin = 11865
- 4,5-Dimethoxycanthin-6-one = 12334
- 2,6-Dimethoxy-9*H*-Carbazole-3-carboxaldehyde = 8832
- 3,4-Dimethoxy-cinnamic acid = 2888
- 6-*O*-[4"-*O*-*trans*-(3,4-Dimethoxycinnamoyl)- α -*L*-rhamnopyranosyl]aucubin = 19568
- 5,7-Dimethoxycoumarin = 3770
- 6,7-Dimethoxycoumarin = 19540
- Dimethoxydaidzein = 6254
- 5,9-Dimethoxy-7*H*-dibenzo(de,h)quinolin-7-one = 2343
- 5,7-Dimethoxy-8-(2,3-dihydroxyisopentyl) coumarin = 14825
- 3',4'-Dimethoxy-5',5'-dihydroxy-6,7-methylenedioxyisoflavone = 5426
- 4 β ,5-Dimethoxy-6",6"-dimethyl-2*H*-pyrano-(2",3":7,6)-flavan = 22810
- 2,6-Dimethoxy-3-formylcarbazole = 8832
- 5,8-Dimethoxy-6,7-furanocoumarin = 11601
- 3,3'-Dimethoxyfuranol[4",5":8,7]foavone = 16492
- 2,3-Dimethoxyfuranol[4',5':11,10]-7-oxo-[2]benzopyranol[4',3-*b*][1]benzopyran = 16493
- 11,12-Di-methoxy-3,4-furo-1,2-naphthoquinone = 4217
- 4,8-Dimethoxyfuro[2,3-*b*]quinoline = 7703
- 1,3-Dimethoxy-2-hydroxyanthraquinone = 1360
- 6,8-Dimethoxy-7-hydroxycoumarin = 11428
- 5,7-Dimethoxy-4'-hydroxyflavone-4'-*O*-apioside = 20393
- 11,12-Dimethoxy-xy-5-hydroxy-3,4-furo-1,2-naphthoquinone = 4218
- 5,7-Dimethoxy-8-[2'-hydroxy-3'-methyl, 3'-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosylbutyl]coumarin = 19040
- 2-(3',5'-Dimethoxy-4'-hydroxyphenyl)-3,7-dioxabicyclo[3.3.0]octan-6-one = 22996
- 2-[2',4'-Dimethoxy-3'-hydroxyphenyl]-4-hydroxy-6-methoxy-benzofuran-3-carbaldehyde = 3005
- 2-[2',4'-Dimethoxy-3'-hydroxyphenyl]-4-hydroxy-5,6-methylenedioxybenzofuran-3-carbaldehyde = 3006
- (25*R*)-3,3-Dimethoxy-17 α -hydroxyspirostan-3-al-12-one = 1865
- 3,7-Dimethoxy-4-hydroxyxanthone = 19646
- 5,6-Dimethoxy-9-hydroxyoxoisoaporphine = 4692
- 4,7-Dimethoxy-6-[(3-methyl-2-butenyl)oxy]furo-[2,3-*b*]quinoline = 20894
- (7*R*,8*R*,7'*R*,8'*S*)-3,4-Dimethoxy-3',4'-methylenedioxy-7,7'-epoxylignan = 8038
- 6,7-Dimethoxy-3',4'-methylenedioxyflavone = 14363
- (7'*R*,8'*S*)-3,4-Dimethoxy-3',4'-methylenedioxy-7,8-seco-7,7'-epoxylignan-7,8-dione = 19616
- 2,3-Dimethoxy-8 α -methyl-5-methylene-5,6,7,8,8 α ,9,10,10 α -octahydroanthrac

- ene-1,4-dione = 9322
- rel*-4',7-Dimethoxy-4-oxo-2,3-*trans*-isoflavanyl-(2→2'')-4'',5''-dihydroxy-7''-methoxy-2'',3''-*trans*-isoflavanone = 4985
- 5,7-Dimethoxy-8-(1-oxo-2-seneciyl-3-methyl-3-butenyl)-2*H*-1-benzopyran-2-one = 16096
- (1*R*,2*R*,5*R*,6*S*)-2-(3',4'-Dimethoxy-phenyl)-6-(3'',4''-methylene dioxyphenyl)-3,7-dioxabicyclo(3,3,0) octane = 17504
- 4,6-Dimethoxy-8-prenyloxyfuroquinoline = 20892
- 1,2-Dimethoxy-4-(1-*cis*-propenyl)-benzene = 14530
- 3,3'-Dimethoxyquercetin = 6402
- 2,3-Dimethoxy-4,6,α,β-tetrahydroxy-α'-chalconol-4-*O*-β-*D*-glucopyranoside = 21633
- 6,4'-Dimethoxy-3,5,7-trihydroxyflavone = 2330
- 6,7-Dimethoxy-3,5,4'-trihydroxyflavone = 7577
- 3',4'-Dimethoxy-5,7,5'-trihydroxyflavone 3-*O*-α-*L*-rhamnopyranoside = 6296
- 3,6-Dimethoxy kaempferide = 14157
- Dimethulene = 3464
- cis*-2,3-Dimethylacrylic acid = 1188
- (-)-3-(3,3-Dimethylallyl)-5'-(2-hydroxy-3-methylbut-3-enyl)-4,2',4'-trihydroxychalcone = 2153
- (+)-3-(3,3-Dimethylallyl)-4',5'-[2''-(1-hydroxy-1-methylethyl)-dihydrofuran]-4,2'-dihydroxychalcone = 2154
- 3'-(3,3-Dimethylallyl)-kievitone = 6307
- 3β-Dimethylamino-20α-acetoxylamino-9β,19-cyclo-4,4,14α-trimethy-5α-pregn-6(7)-ene = 2821
- 3-(Dimethylamino-20α-amino-9β,19-cyclo-4,4,14α-trimethy-5α-pregn-6(7)-ene = 2822
- 20α-Dimethy-lamino-9β,19-cyclo-4,4,14α-trimethy-5α-pregnane = 2818
- 3β-Dimethylamino-9β,19-cyclo-4,4,14α-trimethy-5α-pregn-6(7),17(20)-dien-16-one = 2820
- (20*S*)-20-Dimethylamino-4',6'-dimethoxy-5'-hydroxybenzoylamino-3β-methylbuxan-31-ol = 2815
- (20*S*)-20-Dimethylamino-2'-hydroxy-3β-methyl-3'-methyl-butanoylamino-9,10-seco-buxa-9(11),10(19)-dien-31-ol = 2814
- (20*S*)-20-Dimethylamino-20-hydroxy-3β-methyl-3'-methyl-pentanoylamino-9,10-seco-buxa-9(11),10(19)-dien-31-ol = 2813
- 3β-Dimethylamino-2α-hydroxypregn-5-en-20-one = 12348
- (20*S*)-20-(*N,N*-dimethylamino)-5α-pregna-3-one = 8009
- 5,6-Dimethylbenzimidazolyl cyanocobamide = 22556
- 2,2-Dimethyl-8-benzoyl-3,7-dihydroxy-5-methoxy-6-(3-methyl-2-butenyl)-3,4-dihydrobenzopyran = 18027
- 2,2-Dimethyl-8-benzoyl-7-hydroxy-5-methoxy-6-(3-methyl-2-butenyl)benzopyran = 15225
- rel*-10β*H*-*trans*-1β,12ξ-Di(2-methylbut-2(*E*)-enoyl)-6α,13ξ-dihydroxycyclo-dan-4(20),8(18)-dien-7,15-dione-15,16-oxide = 2950
- 4,24-Dimethyl cholest-7-en-3-ol = 14558
- 2,2-Dimethyl-2*H*-1-chromene-6-carboxylicacid = 1343
- Di-*O*-Methylcrenatin = 10014
- (*E,E,E*)-1,7-Dimethylcyclodeca-1,4,7-triene = 17780
- 4-(1,3-Dimethylcyclohexenyl)-1-methylbenzene = 20938
- 4-(1,3-Dimethylcyclohexenyl)-1-methyl-1,4-cyclohexadiene = 20937
- 9,9-Dimethyl-6α,8β-di(γ,γ-dimethylallyl)-3,4-[2β-(2'-hydroxyisopropyl)-2,3-dihydrofuran]-2α-(1-oxo-2-methylpropyl)-8α-*H*-*cis*-bicyclo[3.3.1]nona-
- 1,5-dione = 8214
- 9,9-Dimethyl-6α,8β-di(γ,γ-dimethylallyl)-3,4-[2β-(2'-hydroxyisopropyl)-2,3-dihydrofuran]-2α-(1-oxo-2-methylpropyl)-8α-*H*-*cis*-bicyclo[3.3.1]nona-1,5-dione = 8215
- 3,3-Dimethyl-4α,6α-di(γ,γ-dimethylallyl)-2α-(2-methyl-1-oxopropyl)cyclohexanone = 8216
- 3,4-(6'',6''-Dimethyl-dihydropyrano)-4',5'-[2''-(1-hydroxy-1-methylethyl)-dihydrofuran]-2'-hydroxychalcone = 2155
- 6,7-(2,2-Dimethyl-dihydropyrano)-8-prenyl-5,3',4'-trihydroxyflavanone = 6572
- 2,5-Dimethyl-8,10-dihydroxynaphthopyrone 10-*O*-β-*D*-glucopyranoside = 17559
- 1β*,2β*,3α*,4α*-1,2-dimethyl-3-(2,5-dimethoxy-3,4-methylenedioxyphenyl)-4-(2,4,5-trimethoxyphenyl)cyclobutane = 15001
- (7*R*,8*S*,8'*R*)-8,8'-Dimethyl-4,5-dimethoxy-3',4'-methylenedioxy-2,7'-cyclo-lignan-7-one = 1730
- (7*R*,8*S*,8'*S*)-8,8'-Dimethyl-3',4'-dimethoxy-4,5-methylenedioxy-2,7'-cyclo-lignan-7-one = 14393
- (+)-1,1-Dimethyl-4,7-dimethylene-decahydro-cyclopropa[*e*]azulen-4a-ol = 1758
- (+)-(1*S*,4*aR*,7*aS*,8*S*)-1,1-Dimethyl-4,7-dimethylenedeca-hydro-cyclopropa[*e*]azulene = 927
- 7,8-Dimethyl-10-*d*-ribityl-isoalloxazine = 18834
- 6,7-Dimethyl-9-*D*-ribitylisoalloxazine = 18834
- 3,4-Di-*O*-methyllellagic acid = 6224
- 5-[(2*E*)-3,7-Dimethyl-5,6-epoxy-2,7-octadienyloxy] psoralen = 1279
- 5-[(2*E*,5*E*)-3,7-Dimethyl-7-[(1-ethoxy)ethoxy-2,5-octadienyloxy]] psoralen = 7466
- 4-*O*-[(2*E*,5*E*)-3,7-Dimethyl-5-ethoxy-2,5-octadiene-7-ol]-sinapyl alcohol = 15328
- 4-*O*-[(2*E*)-3,7-Dimethyl-6-ethoxy-2,7-octadiene]-sinapyl alcohol = 15327
- 4-*O*-[(2*E*,4*E*)-3,7-Dimethyl-5-ethoxy-2,4-octadien-7-ol]-sinapyl alcohol = 15329
- 5-(2*E*)-3,7-dimethyl-5-ethoxy-2,6-octadienyloxy psoralen = 15845
- Dimethyl (2*R*)-2-[(4-ethoxy-4-oxobutanoyl)oxy]succinate = 16157
- 4-(1,5-Dimethyl-1,4-hexadienyl)-1-methyl-cyclohexene = 2411
- (1-(1,5-Dimethylhex-4-enyl)-4,8-dimethylspiro[4.5]deca-1,7-diene) = 22531
- (4-(1,5-Dimethylhex-5-enylidene)-1-methylcyclohexene) = 2408
- [*S*-(*R**,*S**)]-5-(1,5-Dimethyl-4-hexenyl)-2-methyl-1,3-cyclohexadiene = 23004
- (-)-(3*aS*,5*R*,7*aR*)-4,4-Dimethyl-7*a*-hydroxymethyl-5-hydroxy-2,3,3*a*,4,5,7*a*-hexahydrobenzo[*b*]furan-2-one = 13660
- (-)-(3*aS*,5*R*,7*aR*)-4,4-Dimethyl-7*a*-hydroxymethyl-2-oxo-2,3,3*a*,4,5,7*a*-hexa-hydrobenzo[*b*]furan-5-yl 3,4-dimethyl-3-pentenoate = 20966
- (7*R*,8*S*,8'*R*)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7'-cyclo-lignan-7-one = 6932
- (7*R*,8*S*,8'*S*)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7'-cyclo-lignan-7-one = 6933
- (7*R*,8*R*,8'*S*)-8,8'-Dimethyl-4-hydroxy-3',4',5-trimethoxy-2,7'-cyclo-lignan-7-one = 9592
- 1,6-Dimethyl-4-isopropyl-7,8-dihydro-naphthalene = 4076
- 3,8-Dimethyl-5-isopropyl-6-hydroxycoumarin = 13520
- 3,8-Dimethyl-5-isopropyl-6-methoxycoumarin = 13519
- 1,6-Dimethyl-4-keto-tetrahydronaphthalene = 6413
- N,N*-Dimethylmethanamine *N*-oxide = 21940
- 2,2-Dimethyl-6-methoxycarbonyl-2*H*-benzopyran = 6321
- 1β*,2β*,3α*,4α*-1,2-dimethyl-3-(3-methoxy-4,5-methylene-dioxyphenyl)-4-(2,4,5-trimethoxyphenyl)-cyclobutane = 15000
- 4-[2,2-Dimethyl-3-(5-methylcyclopenta-1,4-dien-1-yl)-cyclopropyl]-butan-2-

- one = 20889
- 2,8-Dimethyl-5-methylene-2a,3,4,5,5a,6,7,8,8a,8b-decahydro-cyclobuta[e]azulen-4-ol = 20890
- 2,2-Dimethyl-3-methylenebicyclo[2,2,1]heptane = 3045
- 1,4-Dimethyl-8-methylene-2-oxabicyclo[3.2.1]octane = 13596
- (+)-(S)-1,5-Dimethyl-7-(1-methylethenyl)-cyclodeca-1E,5E-diene = 11437
- (-)-(1R,4aS,8S,9R)-1,4a-Dimethyl-8-(1-methylethenyl)-decahydro-naphthalen-1-ol = 8954
- 4,8-Dimethyl-2-(1-methylethyl)-azulene = 22439
- 1,5-Dimethyl-1-(4-methylhexenyl)-4-cycloheptenylether = 12467
- 6,6-Dimethyl-12 α -(2 α ,3 α -H)-12 α -(2-methyl-3-hydroxybutanoyl)-8b-hydroxy-4-phenyl-pyranodihydrocoumarin = 2992
- 6,6-Dimethyl-12 α -(2 α ,3 β -H)-12 α -(2-methyl-3-hydroxybutanoyl)-8b-hydroxy-4-phenyl-pyranodihydrocoumarin = 2993
- (+)-(1S*,3aR*,4S*,7S*,8aS*)-1,4-Dimethyl-7-(5-methyl-1-methylene-hex-4-enyl)-decahydroazulen-4-ol = 22583
- (1,8-Dimethyl-4-(5-methyl-1-methylenehex-4-enyl)spiro[4.5]dec-7-ene) = 22532
- 2,6-Dimethyl-6-(4-methyl-3-pentenyl)biscyclo[3,1,1]hept-2-ene = 2306
- (2,6-Dimethyl-2-(4-methylpent-4-enyl)-1-oxaspiro[2.5]oct-5-ene) = 7057
- (+)-(1S,4aS,8aR)-4a,8-Dimethyl-1-(1-methylvinyl)-1,2,3,4,4a,5,6,8a-octahydro-naphthalene = 8952
- 3,7-Dimethylocta-1,6-dien-3,8-diol 8-*O*- β -D-glucopyranoside = 2329
- (Z)-3,7-Dimethyl-2,6-octadien-1-ol = 15498
- 4-*O*-[(2E)-3,7-Dimethyl-2,7-octadien-5-ol]sinapyl alcohol = 15326
- 1-[6-(3,7-Dimethyl-octa-2,6-dienyl)-5,7-dihydroxy-2,2-dimethyl-2H-chromen-8-yl]-3-(4-hydroxy-phenyl)-propenone = 13435
- 2-(3,7-Dimethyl-2,6-octadienyl)-1,3,5,8-tetrahydroxyxanthone = 20018
- 2,6-Dimethyl-2,4,6-octatriene = 939
- 3,7-Dimethyl-6-octen-1-al = 3767
- 3,7-Dimethyl-6-octen-1-yl acetate = 3769
- (+)-(1R,5S,6S,7S)-5,6-Dimethyl-9-oxo-8-isopropylidene-tricyclo[5.2.2.0^{1,6}]undecane = 1266
- (3,4-*trans*)-3-[3'-(1''',1'''-Dimethyl-2''-propenyl)-5'-indolyl]-1,4-dimethyl-4-{2-[3''-(1''',1'''-dimethyl-2''-propenyl)-5''-indolyl]-ethyl-2-enyl}-cyclohex-1-ene = 3338
- (3,4-*cis*)-3-[3'-(1''',1'''-Dimethyl-2''-propenyl)-5'-indolyl]-1,4-dimethyl-4-{2-[3''-(1''',1'''-dimethyl-2''-propenyl)-5''-indolyl]-ethyl-2-enyl}-cyclohex-1-ene = 3339
- 6'',6''-Dimethylpyrano(2'',3'':4,5)-3'- γ , γ -dimethylallyl-2',3,4'-trihydroxychalcone = 6024
- 6,7-(2,2-Dimethylpyrano)-8-prenyl-5,3',4'-trihydroxyflavanone = 6571
- (7R,8S,8'R)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cycloignan-7-one = 1709
- (7R,8R,8'S)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cycloignan-7-one = 6830
- (7R,8S,8'S)-8,8'-Dimethyl-3',4',4,5-tetramethoxy-2,7'-cycloignan-7-one = 6831
- N,N-Dimethyltyramine = 9646
- Dimidin = 5707
- Dinatin = 9564
- 18,20-Dinor-1,3,5(10),6,8,12-abietaheptaene-11,14-dione = 5165
- 25,26-Dinor-9,13-dimethylup-5-en-3-ol = 9213
- 26,27-Dinor-3,8,14,21-onoceranetetrol = 3810
- 16,28-Di-*O*acetyl-21-*O*-angeloyltheasapogenol E 3-*O*- β -D-galactopyranosyl(1 \rightarrow 2)[β -D-xylopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl(1 \rightarrow 3)]- β -D-glucopyranosiduronic acid = 21287
- Dioctyl 1,2-benzenedicarboxylate = 2449
- 3-*O*- α -(3',4'-*O*-Dioic-acetyl)-L-arabino-pyranosyl-3 β -hydroxylean-12-ene-28,29-dioic acid-28-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glycopyranosyl-(1 \rightarrow 4)- β -D-glycopyranosyl] ester = 22915
- Dioscorea sapogenin = 6440
- Diosgenin-dioglucoside = 6442
- Diosgenin-3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside = 17655
- Diosgenin-3- α -L-rhamnopyranosyl(1 \rightarrow 3)- β -D-glucopyranoside = 17654
- Diosgenin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-glucopyranoside = 21661
- Diosgenin 3-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 4)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-rhamnopyranoside] = 17657
- Diosgenin-3-*O*- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-rhamnopyranosyl(1 \rightarrow 4)[α -L-rhamnopyranosyl(1 \rightarrow 3)]- β -D-glucopyranoside = 17656
- Diosgenin tetraglycoside = 6447
- 11,24-Dioxo-5,21-dien-cucuebit-3 α -*O*- β -D-xylopyranosyl-16 α -*O*- α -L-rhamno-pyranoside = 4883
- (24E)-3,7-Dioxo-5 α -lanosta-8,24-dien-26-al = 13020
- 3,16-dioxo-13 β 17-methyleneoxyoleanane = 6768
- 2,6-Dioxo-1,2,3,6-tetrahydro-4-pyrimidinecarboxylic acid = 16214
- trans,trans*-1,7-Diphenyl-1,3-heptadien-5-one = 966
- 1,7-Diphenyl-5-hydroxy-3-heptanone = 6185
- trans*-1,7-Diphenyl-5-hydroxy-1-heptene = 6487
- Diphyline = 3502
- Diploptene = 9641
- Diplopterol = 10167
- 1,6-Di-*O*-*E*-sinapoyl- β -glucopyranose = 6510
- Distylin = 5699
- Diterpenoid SP II = 5930
- 2,3-Dithiabutane = 6342
- 4,5-Dithiaoctane = 6501
- Di(5,7,4''-trihydroxy-2,3-dihydro-4',7''-dimethoxy-6''-methyl-3',3''-biflavan-yl)-6,6-tetraflavone = 20627
- 3,4-*O*-Divanilloylquinic acid = 2761
- 3,5-*O*-Divanilloylquinic acid = 2762
- 4,5-*O*-Divanilloylquinic acid = 2763
- D*-(+)-Maltose = 13454
- D*-Maltose = 13454
- DMX-B = 5262
- DMX-J = 5263
- Docosapentenoic acid = 3849
- cis*-13-Docosenoic acid = 7291
- (4 α ,5 β ,6 α ,7 β ,11 α ,11 β)-1,2,3,4,4a,5,6,6a,7,11,11a,11b-Dodecahydro-4,4,7,11b-tetramethylphenanthro[3,2-*b*]furan-4a,5,7-triol-5-benzoate = 11778
- (4 α ,5 β ,6 α ,11 α ,11 β)-1,2,3,4,4a,5,6,6a,7,11,11a,11b-Dodecahydro-4,4,11b-trimethyl-7-methylenephenanthro[3,2-*b*]furan-4a,5-diol-5-benzoate = 11777
- Dodecanal = 12570
- (3E,7Z)-Dollabella-3,7,12-trien-17-oic acid = 6549
- Donaxine = 8971
- Dotorioside I = 1733
- (9S)-Drummondol-9-*O*- β -D-glucopyranoside = 20174

Dulcinol = 19537

E

Eburicoic acid 21-*O*- β -*D*-glucopyranoside = 7875

α -Ecdysone = 6678

β -Ecdysone = 6679

Echinaystic acid = 6689

Echinocystic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl
(1 \rightarrow 3)- α -*L*-arabinopyranoside = 11799

Echinocystic acid 3-*O*-(6'-*O*-methyl)- β -*D*-glucuronopyranoside = 6704

Emanin = 12044

Egonol = 10665

n-Eicosane = 6720

1-Eicosanol = 6722

Elatericin = 4319

Elatoside J = 3976

Eleutheroside C = 7439

Eleutheroside E = 86

Eleutheroside M = 819

Emodin-8-*O*- β -*D*-glucopyranoside = 1363

Emodin 8-*O*- β -*D*-glucopyranosyl-6-*O*-sulfate = 20468

Emodin-3-monomethyl ether = 17247

Emodin-1-monomethyl ether = 18416

Empetrin = 5022

Enecalol = 6797

Encordin = 17002

Engeletin = 5659

Engelitin = 5659

Enmenin = 21561

EP-1 = 7113

Ephedine = 6815

Epialisol A = 891

Epicatechin-(2 β \rightarrow *O* \rightarrow 7,4 β \rightarrow 8)-[epicatechin-(4 β \rightarrow 6)]-epicatechin-(4 β \rightarrow 8)-
epicatechin = 16654

Epicatechin-(2 β \rightarrow *O* \rightarrow 5,4 β \rightarrow 6)-[epicatechin-(2 β \rightarrow *O* \rightarrow 7,4 β \rightarrow 8)]-epicatechin-
(4 β \rightarrow 8)-epicatechin = 16655

Epicatechol = 6854

2-Epicephalofortuneine = 3401

7-Epi-10-deacetylaxol = 6884

(1'*R*,3'*R*,5'*R*,8'*S*)-Epi-dihydrophaseic acid β -*D*-glucoside = 5691

5 α ,8 α -Epidioxergosta-6,22-dien-3 β -ol = 7251

5 α ,8 α -Epi-dioxergost-6-en-3 β -ol = 7249

2''-Epidorsmanin Fa = 6566

2''-Epidorsmanin Fb = 6567

2''-Epidorsmanin Ga = 6568

2''-Epidorsmanin Gb = 6569

20-Epieuphol = 21409

15-Epifuziline = 15228

(-)-Epigallocatechin = 6921

(-)-Epigallocatechin-3-*O*-gallate = 6923

3-Epihydroxyetioallocholan-17-one = 1170

8'-Epi-larreatricin = 6942

1-*O*-(8-Epi-loganoyl)- β -*D*-glucopyranose = 8864

Epilupinyl rhamnosylferulate = 14084

Epimedeside A = 5257

22,26-Epiminocholest-6-one-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopy-
ranoside = 22906

(5 α ,22*S*,23*R*,25*S*)-22,26-Epimino-16 β ,23-epoxy-3 β ,23,27-trihydroxycholestane =
7375

L-Epinephrine = 653

6-*C*- β -*D*-4-Epiiosyl-4'-*O*- β -*D*-glucopyranosylapigenin = 18678

Epiquinamine = 4004

13-Epi-roseosta-chenol = 10291

15-Episenbusine C = 15228

20 ζ_1 ,24 ζ_2 -Epoxy-15*R*-acetoxy-9,19-cyclolanostane-3 β ,16 β ,25-triol-3-*O*- β -*D*-
xylopyranoside = 2206

3 β ,25-Epoxy-21 β -acetoxy-3 α ,22 β -dihydroxyurs-12-en-28-al = 4039

3 β ,25-Epoxy-28-acetoxy-3 α ,21 β ,22 β -trihydroxyurs-12-ene = 4040

Epoxyactinidionoside = 20271

4,5-Epoxy-8(14)-caryophyllene = 3243

15,16-Epoxy-1,3,13(16),14-clerodatetraen-20,12-olide-18,19-dioic acid dime-
thylester = 4273

15,16-Epoxy-1,3,13(16),14-clerodatetraen-18,19,20-trioic acid trimethylester
= 4274

15,16-Epoxy-3,13(16),14-clerodatrien-19,1 α :20,12-diolide-18-oic acid meth-
ylester = 4275

20 ζ_1 ,24 ζ_2 -Epoxy-9,19-cyclolanostane-3 β ,12 α ,15 α ,16 β ,25-pentaol-3-*O*- β -*D*-
xylopyranoside = 2207

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3 β ,12 β ,16 β ,18,25-pentaol-3-*O*- β -*D*-
xylopyranoside = 2193

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3 β ,12 α ,16 β ,18,25-pentaol-3-*O*- β -*D*-
xylopyranoside = 2194

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3 β ,15 α ,16 β ,18,25-pentaol-3-*O*- β -*D*-
xylopyranoside = 2196

20 ζ_1 ,24 ζ_2 -Epoxy-9,19-cyclolanostane-3 β ,16 β ,18,25-tetraol-3-*O*- β -*D*-glucopy-
ranoside = 2198

20 ζ_1 ,24 ζ_2 -Epoxy-9,19-cyclolanostane-3 β ,16 β ,18,25-tetraol-3-*O*-[β -*D*-gluco-
pyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 2199

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3 β ,16 β ,18,-25-tetraol-3-*O*- β -*D*-
xylopyranoside = 2192

(20*S**,24*R**)-Epoxy-9,19-cyclolanostane-3 β ,12 β ,16 β ,25-tetraol-3-*O*- β -*D*-
xylopyranoside = 4465

20,24-Epoxy-dammarane-(3 β ,12 β ,20*S*,24*R*)-12-*O*- β -*D*-quinovopyranosyl-25-
hydroxy-3-*O*- α -*L*-arabinofuranoside = 4483

(3*S*,5*R*,6*R*,3'*S*,5'*R*,8'*R*)-Epoxy-6,7-didehydro-5,6,5',8'-tetrahydro- β , β -carotene-
3,5,3'-triol 3-*O*-acetate = 6424

(3*S*,5*R*,6*R*,3'*S*,5'*R*,8'*S*)-5',8'-Epoxy-6,7-didehydro-5,6,5',8'-tetrahydro- β , β -carot-
ene-3,5,3'-triol 3-*O*-acetate = 6425

5,8-Epoxy-5,8-dihydro- β ,*epsilon*-carotene-3,3'-diol = 7821

12,16-Epoxy-11,14-dihydroxy-3,5,8,11,13,15-abietahexaene-7-one = 786

12,16-Epoxy-11,14-dihydroxy-3,5,8,11,13-abieta-pentaene-7-one = 787

16 β ,23 β -Epoxy-11 β ,25-dihydroxy-24(*R*)-acetoxy-protost-13(17)-en-3-one =
902

(20*S*,24*S*)-20,24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -*D*-glucopyra-
nosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 9117

(20*S*,24*S*)-20,-24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -*D*-glucopyra-

- nosyl-(1→2)- β -D-xylopyranoside = 9116
- (20S,24R)-20,24-Epoxy-12,25-dihydroxydammaran-3-yl *O*- β -D-glucopyranosyl-(1→2)- β -D-xylopyranoside = 9118
- 1,4-*trans*-7 β ,10 β -Epoxy-4 α ,6 α -dihydroxyguaiane = 16193
- ent*-3 β ,20-Epoxy-3 α ,6 α -dihydroxykaur-16-ene = 689
- 15,16-Epoxy-3 α ,9 α -dihydroxy-labda-13(16),14-diene = 16273
- 3 β ,20-Epoxy-3 α ,6 α -dihydroxy-18-nor-beyer-15-ene = 692
- 13 β ,28-Epoxy-16 α ,21 β -dihydroxyurs-11-en-3 β -yl *α*-L-rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18949
- 13 β ,28-Epoxy-16 α ,23-dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18944
- 15 α ,16 α -Epoxy-11 α ,28-dihydroxyurs-12-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18947
- 13 β ,28-Epoxy-16 α ,21 β -dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18948
- 13 β ,28-Epoxy-16 α ,23-dihydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-glucopyranoside = 18950
- 13 α (21)-Epoxyeurycomanone = 16694
- (22S,23S,25R,26S)-23,26-Epoxy-5 α -furostane-3 β ,22,26-triol 26-*O*- β -D-glucopyranoside = 699
- 6,7-Epoxy-10(14)-guaian-4-ol = 16191
- 2,3-Epoxy-6,9-humuladiene = 9671
- 6,7-Epoxy-2,9-humuladiene = 9672
- 9,10-Epoxy-2,6-humuladiene = 9673
- 2,3-Epoxy-6,9-humuladien-8-one = 22985
- 3 β ,20-Epoxy-3 α -hydroxybeyer-15-ene = 690
- 16,24-Epoxy-25-hydroxycycloart-1,11,22-trien-3-one = 1669
- 5 α H-2 β ,4-Epoxy-3 β -hydroxyguaia-1(10),11(13)-dien-6 β ,12-olide = 14978
- 5 α H-2,4 β -Epoxy-1-hydroxyguaia-9(10),11(13)-dien-6 β ,12-olide = 19128
- 5 α H-2,4 β -Epoxy-1-hydroxyguaia-10(14),11(13)-dien-6 β ,12-olide = 19129
- 4,10-Epoxy-6 α -hydroxyguaiane = 2695
- 16,24-Epoxy-3 α -hydroxylanost-8-ene = 1668
- 3,25-epoxy-3 α -hydroxy-22 β -[(*Z*)-29-methyl-29-butenyloxy]-11-oxoolean-12-en-28-oic acid = 3024
- 1,2-Epoxy-13-hydroxy-6,10,14-phytatrien-20,1-olide = 7086
- (23S,25R)-17 α ,23-Epoxy-29-hydroxy-3 β -[(*O*)- α -L-rhamnopyranosyl-(1→2)-*O*- β -D-glucopyranosyl-(1→3)]-*O*- β -D-glucopyranosyl-(1→2)- α -L-arabinopyranosyl-(1→6)- β -D-glucopyranosyl]oxy]lanost-8-en-23,26-olide = 19517
- 13 β ,28-epoxy-16 α -hydroxyurs-11-en-3 β -yl *α*-L-rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18953
- 13 β ,28-epoxy-16 α -hydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-fucopyranoside = 18952
- 13 β ,28-epoxy-16 α -hydroxyurs-11-en-3 β -yl β -D-xylopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)- β -D-glucopyranoside = 18951
- Epoxyimperatorin = 9419=16447
- 15,16-Epoxy-8(17),13(16),14-*ent*-labdatrien-20,19-olide = 17742
- 8,13-Epoxy-14-labdene = 5954
- (*E*)-8 β (17)-Epoxylabd-12-ene-15,16-dial = 675
- Epoxyinalool = 12853
- (3S,5R,8S,9R)-5,8-Epoxy-6-megastigmene-3,9-diol 3-*O*- β -D-glucopyranoside = 16015
- (3S,5R,8R,9R)-5,8-Epoxy-6-megastigmene-3,9-diol 3-*O*- β -D-glucopyranoside = 16016
- 3,25-Epoxy-3 α -methoxy-22 β -[β , β -dimethylacryloyloxy]-urs-12-en-28-oic acid = 3028
- (16S,20S,22S)-16 β ,22-Epoxy-16 α -methoxy-3 β ,25,26-trihydroxy-cycloartan-24-one 3-*O*- β -D-glucopyranosyl-(1→2)- β -D-glucopyranoside = 1547
- 14,16-Epoxy-6-methyl-5(10),6,8,13-abietatetraene-11,12-dione = 14263
- 8 β -(2',3'-Epoxy-2'-methylbutanoxy)-4 α -hydroxy-14-oxo-5 α H,6 β H,7 α H-guai-1(10),2,11(13)-triene-6,12-olide = 7546
- 6-[(2,3-Epoxy-3-methylbutyl)oxy]-4,7-dimethoxyfuro[2,3-b]quinoline = 20893
- 5 α H-2 β ,4-Epoxy-3 β -(2-methylbutyryloxy)guaia-1(10),11(13)-dien-6 β ,12-olide = 14195
- (22R,24R,25R,26S)-22,26-Epoxy-24-*O*-methyl-1 α ,3 β ,24,25,26-pentahydroxyergost-5-ene 26-*O*- β -D-glucopyranoside = 3639
- 8,13-Epoxy-3-nor-2,3-seco-14-epilabden-2,4-olide = 688
- 3,23- β -Epoxy-olean-12-en-28-oic acid = 4480
- 6S-(1S,2R-Epoxyphenethyl-5S-cinnamyloxy)-5,6-dihydro-2-pyrone = 9654
- Epoxypseudoisoeugenyl 2-methylbutyrate = 14029
- cis*-Epoxy-pseudoisoeugenyl tiglate = 14028
- trans*-Epoxy-pseudoisoeugenyl tiglate = 14030
- 15,16-Epoxy-6 β ,7 β ,18,19-tetrahydroxy-neo-cleroda-3(4),13(16),14-trien-20,12(S)-olide = 21226
- 15,16-Epoxy-3 α ,6 β ,7 β ,18,19-tetrahydroxy-neo-cleroda-4(18),13(16),14-trien-20,12(S)-olide = 21227
- 13,28-Epoxy-3 β ,16 β ,23,29-tetrahydroxyolean-11-en-3 β -yl 30-oic acid β -D-glucopyranosyl-(1→2)-[4-*O*-sulfo- β -D-glucopyranosyl-(1→3)]- β -D-fucopyranoside = 19247
- 13,28-Epoxy-3 β ,16 β ,23,29-tetrahydroxyolean-11-en-3 β -yl β -D-glucopyranosyl-(1→2)-[4-*O*-sulfo- β -D-glucopyranosyl-(1→3)]- β -D-fucopyranoside = 19245
- 13,28-Epoxy-3 β ,16 β ,23,30-tetrahydroxyolean-11-en-3 β -yl β -D-glucopyranosyl-(1→2)-[4-*O*-sulfo- β -D-glucopyranosyl-(1→3)]- β -D-fucopyranoside = 19248
- 5,6-Epoxy-4,16,20,22-tetrahydroxy-1-oxoergost-2-eno-26,23-lactone = 11804
- (20S,22R,24S,25S)-22,25-Epoxy-3 β ,24,27-trihydroxy-cycloartan-16-one 3-*O*- β -D-glucopyranosyl-(1→2)- β -D-glucopyranoside = 1548
- (20S,24S)-20,24-Epoxy-12,23 β ,25-trihydroxydammaran-3 β -yl *O*- β -D-glucopyranosyl-(1→2)- β -D-xylopyranoside = 9119
- 14 α ,20-Epoxy-1 α ,7 α ,14 β -trihydroxy-*ent*-kaur-16-en-15-one = 7681
- 13,28-Epoxy-3 β ,16 β ,23-trihydroxyolean-11-en-3 β -yl-30-oic acid β -D-glucopyranosyl-(1→2)-[4-*O*-sulfo- β -D-glucopyranosyl-(1→3)]- β -D-fucopyranoside = 19246
- EQ-7 = 3164
- EQ-8 = 10527
- 1(10),11-Eremophiladien-2-one = 15705
- Ergobasine = 7240
- Ergocalciferol = 22558
- Ergokryptine = 7236
- Ergosta-7,22-dien-3 β -ol = 5608
- Ergosta-5,7-dien-3-ol = 14229
- (22E)-Ergosta-5,7,22-trien-3 β -ol = 7250
- Ergost-7-en-3-ol = 8003
- Ergosterol peroxide = 6906
- Erinacin A = 7261

- Erinacin B = 7262
 Erinacin C = 7263
 Erinacin E = 7264
 Erinacin G = 7265
 Eriocarpin A = 6061
 Eriodictyonone = 9604
 Ervine = 783
 Erypogin A = 2772
 Erypogin B = 2771
 Erysimin = 9335
 Erysimotoxin = 9335
 Escholine = 13374
 Esculetin = 663
 Esculin = 664
 Estratriol = 7386
 1,2-Ethanedicarboxylic acid = 20444
 Ethanediol = 8826
 4,5-Etheno-9,10-dihydroxy-6-phenanthridone = 4235
 5(*R*)-5-Ethenyl-3-formamido-5-hydroxy-2-cyclopenten-1-one = 15206
 (+)-(1*R*,2*R*,4*R*,5*R*)-4-Ethenyl-2-hydroxy-4-methyl-5-(1-methylethenyl)-1-(1-methylethyl)-cyclohexylacetate = 177
 (-)-(1*S*,2*S*,3*S*)-1-Ethenyl-1-methyl-2,3-di(1-methylethenyl)-cyclohexane = 11407
 (1*R**,2*S**,5*S**)-2-Ethenyl-1-(1-methylethenyl)-2,6,6-trimethylbicyclo[3.2.0]heptane = 16596
 (+)-(1*R*,3*R*,4*R*)-4-Ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-cyclohexanol = 6739
 9-Ethoxy-aristololide = 7395
 24β-Ethoxy-20-25-epoxy-3α,16α-dihydroxy-9-methyl-19-norlanost-5(6)ene-2,11,22-trione = 5114
ent-17-Ethoxy-16(α)-kauran-19-oic acid = 19879
 4β-Ethoxy-5-methoxy-6",6"-dimethyl-2*H*-pyrano-(2",3":7,6)-flavan = 5103
 2-Ethoxymethylene-3,5-dihydroxy-γ-pyrone = 1678
 20-Ethyl-8-acetoxy-14-(*p*-hydroxybenzoyloxy)-1α,6α,16β,18-tetramethoxyaconitane-3α,13β-diol = 8270
 Ethylamylcarbinol = 15978
 Ethyl benzenecarboxylate = 7421
 Ethyl butanoate = 7423
 24α-ethyl-5α-cholesta-7-*trans*,22-dien-3β-ol = 20168
trans-Ethyl cinnamate = 7430
 Ethyl dodecanoate = 7455
 Ethyl ethanoate = 7418
 Ethyl hexadecanoate = 7469
 Ethyl margarate = 7444
 25-Ethyl,23-methyl-19-*nor*-24-methylene-3,4-*seco*-4(28)-lanosten-10,3-olide = 19102
 24-Ethyl,24-methyl-19-*nor*-3,4-*seco*-4(28),25(26)-lanostadiene-10,3-olide = 19103
 Ethyl nonyl ether = 15700
 Ethyl *trans*-3-phenylpropenoate = 7430
 Ethyl stearate = 7467
 Ethyl sulfide = 5503
N-Ethyl-1α,6α,16β,18-tetramethoxy-8-ethoxy-13β-ol-2,3-dehydroaconitane-14-anisoylate = 12736
N-Ethyl-1α,6α,16β,18-tetramethoxy-13β-ol-2,3-dehydroaconitane-8-acetate-14-anisoylate = 12736
N-Ethyl-1α,6α,16β,18-tetramethoxy-13β-ol-2,3-dehydroaconitane-8,14-di-anisoylate = 12737
 Eucannabinolide = 9570
 5α*H*-Eudesma-4(15),11(13)-dien-12,8β-olide = 11203
 Eudesmane-4(15)-ene-1β,11,14-triol 11-*O*-β-*D*-glucopyranoside = 3380
 Eudesmane-4(15)-ene-1β,2α,11-triol 11-*O*-β-*D*-glucopyranoside = 3381
 Eudesmane-1β,4α,11-triol 11-*O*-β-*D*-glucopyranoside = 3382
 1α,5β,6β,7α,10α-4(15)-Eudesmen-6-ol-1-yl-acetate = 246
 4-Eudesmen-6-one = 15334
 Eugenyl acetate = 391
 Eupassopin = 7566
 (24*Z*)-7,24-Euphadien-3β,26-diol = 21407
 Eupha-7,24-diene = 21404
 Eupha-8,24-diene = 21405
 (23*E*)-Eupha-8,23-diene-3β,25-diol-7,11-dione = 16365
 (23*E*)-Eupha-8,23-diene-3β,25-diol-7-one = 12131
 Eupha-8,24-diene-3β-ol-7-one = 12130
 Euphadienol = 7611
 Eupha-8,24-dien-3β-ol = 7611
 Eupha-7-en-3,24-dione = 21408
 Eupha-7,9(11),24-trien-3β-ol = 1464
 Euphorbia factor L₃ = 5287
 α-Euphorbol = 7618
 Eupteleogenin 3-*O*-[α-*L*-rhamnopyranosyl(1→2)][β-*D*-galactopyranosyl(1→3)][α-*L*-rhamnopyranosyl(1→4)]-β-*D*-glucopyranoside = 7630
 Eupteleogenin 3-*O*-[α-*L*-rhamnopyranosyl(1→2)][β-*D*-glucopyranosyl(1→3)]-6'-*O*-acetyl-β-*D*-glucopyranoside = 7629
 Eupteleogenin 3-*O*-α-*L*-rhamnopyranosyl(1→2)-[β-*D*-glucopyranosyl(1→3)]-β-*D*-glucopyranoside = 7628
 Eurycarpin B = 8501
 Eurycomanone = 16693
 Euxanthogen = 13481
 Euxanthone = 6183
 Evoxine = 9223
 Excoecaria factor A₃ = 20986
 Excoecaria factor B₃ = 20986
 Excoecariatoin = 20986
 Exidonin = 18499
- ## F
- Fabacei II = 4317
 Fanchinin = 21206
 Farcarindiol = 7708
 Farnoquinone = 22563
 Febrivugine = 5436
 Feloside = 17079
 (-)-Feroxidin = 7761
 Ferrugin = 18892
N-*trans*-Feruloyl-3-methyldopamine = 7777
N-*cis*-Feruloyl-3-methyldopamine = 22081
 3β-*O*-*E*-Feruloyl oleanolic acid = 19457
 (2-*trans*-Feruloyloxymethyl-4-β-*D*-glucopyranosyloxy-2(*E*)-butenenitrile) = 15594

3 α -*E*-Ferulyloxy-lup-20(29)-en-28-oic acid = 12581
 3 α -*E*-Ferulyloxy-urs-11-en-13 β -ol = 12582
 Ficusin = 18086
 Finetose = 13454
 Flaconitine = 304
 Flavan-4-ol = 7807
 Flavesone = 21200
 Flemiphilippin *D* = 12358
 Foeniculin = 9043
 6'-*O*-Foliamenthoilmussaenosidic acid = 750
 Foresaconitine = 22482
 Formonetin = 7883
 Formononetin-7-*O*-(2'',6''-*O*-diacetyl)glucopyranoside = 5343
 Formononetin 7-*O*- β -*D*-(6''-ethylmalonyl)-glucopyranoside = 9554
 Formosanine = 22204
 3'-Formyl-4',5-dihydroxy-2'',2''-dimethylchromeno-[6,7:5'',6'']isoflavone = 19449
 1-[3'-Formyl-2',4'-dihydroxy-6'-methoxy-5'-(3''-methylbut-2''-enyl)]acetophenone = 571
rel-(4a*S*,9*R*,9a*S*)-8-Formyl-1,2,3,4,4a,9a-hexahydro-5,6,9-trihydroxy-7-isopropyl-1,1,4a-trimethylfluorene = 5432
 8-Formyl-7-hydroxy-5,6-dimethoxy coumarin = 22953
 3-Formyl indole = 874
 2-Formyl-5-methoxyfuran = 13931
 17 β -Formyloxy-28-nor-urs-12-en-3 β -ol = 3784
 4a*S**-8-Formyl-2,3,4,4a-tetrahydro-5,6-dihydroxy-7-isopropyl-1,1,4a-trimethyl-1*H*-fluorene = 5433
 Forskolin = 3915
 Forsythiaside = 7924
 Forsythin = 17145
 Friedelan-3 β -ol = 6918
 Friedelin = 7951
 Friedelinol = 6918
D:*C*-Friedolean-7-ene = 15064
D:*B*-Friedoursane-3*a*,16*a*-dihydroxy-7*a*,8*a*-epoxy-5(10)-ene = 17018
 12-*O*- β -*D*-Fucopyranosyl flourensadiol 10-*O*- β -*D*-glucopyranoside = 16018
 3-*O*- β -*D*-Fucopyranosyl saikogenin F = 17941
 12-*O*- β -*D*-Fucopyranosyl selin-4(15)-en-3 β ,11-diol 3-*O*- β -*D*-glucopyranoside = 16017
 Fugu poison = 21211
 Fujic acid = 8376
 Fukinanolide = 2119
 Fumarilicine = 16663
 Furan-2-carboxaldehyde = 8011
 13 β -Furanolabda-8(17),11-dien-6 β ,7*a*-diol = 22949
 Furanoligularenone = 8020
 6-Furfurylaminopurine = 12227
 7*H*-Furo[3,2, *g*][1]benzopyran-7-one = 18086
 (+)-Fustin = 5613
 (-)-Fustin = 5614
 Fuziline = 19701
 Fysaproliferin = 17904

G

Galactaric acid = 15007

Galactitol = 6632
 3-*O*- α -*D*-Galactopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl betulinic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 4430
 3-*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 4)- α -*L*-arabinopyranosyloleanolic acid = 17623
 3-*O*- β -*D*-Galactopyranosyl(1 \rightarrow 2) α -*L*-arabinopyranosyl ursolic acid 28-*O*- β -*D*-glucopyranosyl ester = 4432
 3-*O*- α -*D*-Galactopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ursolic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 4433
 3-*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 3)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl-oleanolic acid = 17693
 (3 β ,5 α)-3-[(*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-spirostan-12-one = 21015
 3-*O*-(β -*D*-Galactopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl)serjanic acid = 19334
 3-*O*-(β -*D*-Galactopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl)serjanic acid 28-*O*- β -*D*-glucopyranoside = 19339
 3-*O*-{[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]}-22-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranosyl] soyasapogenol A = 20122
 3-*O*-[β -*D*-Galactopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucopyranosylolean-12-en-28-oic acid = 1828
 3-*O*-[β -*D*-Galactopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucopyranosylolean-12-en-28-oic acid = 22173
 (3 β ,5 α ,25*R*)-3-[(*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranosyl)oxy]-spirostan-12-one = 21016
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosylquillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester = 19941
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*Z*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester = 19942
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester = 19945
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucuronopyranosyl quillaic acid 28-*O*-{[β -*D*-xylopyranosyl(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl(1 \rightarrow 2)}; [β -*D*-glucopyranosyl(1 \rightarrow 3)]-4-*O*-acetyl- β -*D*-fucopyranosyl ester = 19946
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]-[6-*O*-methyl- β -*D*-glucuronopyranosyl] quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-[3-*O*-acetyl-4-*O*-(*E*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl] ester = 19943
 3-*O*-[β -*D*-Galactopyranosyl(1 \rightarrow 2)][β -*D*-xylopyranosyl(1 \rightarrow 3)]-[6-*O*-methyl- β -*D*-glucuronopyranosyl] quillaic acid 28-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 2)]-3-*O*-acetyl-4-*O*-(*Z*)-*para*-methoxycinnamoyl- β -*D*-fucopyranosyl ester = 19944
 3-*O*- β -*D*-Galactopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyloleanolic acid = 17622
 α -*D*-Galactosyl- α -*D*-galactosyl- α -*D*-glucosyl- β -*D*-fructose = 20255
 4,6-(*S,S*)-Gallagyl-*D*-glucose = 18205
 Gallic acid ethyl ester = 7441

- 1-Galloyl-2-cinnamoyl-glucose = 3703
 Galloylepicatechin = 6864
 6-Galloyl-2,3-(*S*)-hexahydroxydiphenyl-*D*-glucose = 18201
 1-*O*-Galloyl-3,6-*O*-HHDP-2,4-*O*-dehydroxymethyl-chebuloyl- β -*D*-glucopyranos = 17224
 1-*O*-Galloyl-2,4-(*R*)-HHDP- β -*D*-glucose = 17209
 1-*O*-Galloylpedunculagin = 3301
 1-*O*-Galloyl-2,4-tetrahydroxydibenzofurancarboxyl- β -*D*-glucose = 17208
 Gamabufotalin = 8121
 Ganoderic acid A = 8150
 Ganoderic acid B = 8151
 Ganoderic acid C₁ = 8152
 Ganoderic acid *D* = 8153
 Ganoderic acid DM = 8154
 Ganoderic acid F = 8155
 Ganoderic acid G = 8170
 Ganoderic acid H = 8156
 Ganoderic acid LM₂ = 8157
 Ganoderic acid Ma = 8158
 Ganoderic acid U = 8159
 Ganoderic acid V = 8160
 Ganoderic acid W = 8161
 Ganoderic acid X = 8148
 Ganoderic acid Y = 8149
 Ganwuweizic acid = 19499
 Gelidoside = 18848
 Gelsenicine = 9661
 Geneserine = 7380
 Genipin β -cellobioside = 8268
 Genistein 7-*O*- β -*D*-(6"-*O*-acetylglucopyranoside) = 398
 Genistin = 8282
 Genkwanin 8-*C*-glucoside = 11724
 Genkwanin-5-*O*-xylosylglucoside = 22935
 Gentiocrucine = 8293
 Gentiopicroin = 8304
 Gentisin = 6011
 Geoside = 8250
 Geranial = 3761
 Geranyl alcohol = 8312
 3-Geranyl-4-hydroxy-6-(2-hydroxypropyl)-2-pyrone = 2007
 7-Geranyloxy-8-methoxycoumarin = 3926
 7-Geranyloxy-6-methoxycoumarin = 13846
 4-Geranyl-2',3,4',5-tetrahydroxy-*trans*-stilbene = 3567
 2-Geranyl-1,3,6-trihydroxy-2',2'-dimethyl[5',6':7,8]xanthone = 918
 1(10),4(15)-Germacradien-6-one = 17809
 1(10)*E*,4*E*-Germacrone = 8347
 Gertiopicroin = 8304
 Gesneroidin F = 8483
 6-*O*- α -*L*-Ghamnopyranosyl-(1 \rightarrow 3)- β -*D*-quinovopyranosyl-(22*R*,23*S*,25*S*)-3 β ,6 α ,23-trihydroxy-5 α -spirostane = 21471
 6-*O*- α -*L*-Ghamnopyranosyl-(1 \rightarrow 3)- β -*D*-quinovopyranosyl (22*R*,23*S*,25*R*)-3 β ,6 α ,23-trihydroxy-5 α -spirostane = 21472
 Gibberellic acid = 8372
 Ginkgoic acid = 8403
 Ginsenoside A = 18025
 Ginsenoside A₂ = 8430
 Ginsenoside B₂ = 8428
 Ginsenoside C = 8431
 Ginsenoside Rh₁ = 8435
 Gitogenin β -lycotetraoside = 8458
 Glabralactone = 1193
 Glaucogenin C 3-*O*- α -*L*-diginopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranoside = 1991
 Glaucogenin C 3-*O*- β -*D*-thevetopyranoside = 8507
 Glucogallin = 8108
 1- β -Glucogeniposide = 8276
D-Gluconic acid = 8600
 10-*O*-Glucopyranoside aristolochic acid *D* = 1725
 6-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)-6-*O*-acetyl- β -*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3 β ,6 α ,12 β ,25-tetrol = 22893
 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 2)-6-*O*-acetyl- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*)-trihydroxydamman-24-ene = 22902
 8-*O*- β -*D*-Glucopyranosylakebonoic acid 3-*O*- α -*L*-arabinopyranosyl(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranoside = 7635
 7-*O*- β -*D*-Glucopyranosyl-anhydroicaritin-3-*O*- β -*D*-(3,6-*O*-diacetyl)-glucopyranosyl-(1 \rightarrow 3)- α -*L*-(4-*O*-acetyl)-rhamnopyranoside = 3480
 4'-*O*-Glucopyranosyl apigenin-6-*C*- α -*L*-arabinopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-dihydroferuloyl)-glucopyranoside = 19667
 3-*O*-{[β -*D*-Glucopyranosyl(1 \rightarrow 2)][α -*L*-arabinofuranosyl(1 \rightarrow 4)]-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl}-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20538
 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside = 20615
 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)-*O*-{ α -*L*-arabinofuranosyl-(1 \rightarrow 2)}-*O*-(β -*D*-glucopyranosyl)]jujubogenin = 2094
 (4'*R*)-4'-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-arabinofuranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 4)]-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-1-4-woodwardine = 22723
 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl]caulophyllogenin = 3976
 3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl β -kudinlactone = 10979
 3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 2211
 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-arabinopyranosyl pomolic acid 28- β -*D*-glucopyranosyl ester = 18537
 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- α -*L*-arabinopyranosyl rotundic acid = 18536
 3-*O*- β -*D*-Glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4024
 3-*O*- β -*D*-Glucopyranosyl betulinic acid 28-*O*- α -*L*-arabinopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 4429
 2-*O*-(β -*D*-Glucopyranosyl) bruceantinol = 22866
 3-*O*-(β -*D*-Glucopyranosyl) brucein A = 22861
 2-*O*-(β -*D*-Glucopyranosyl) brucein C = 22862
 2-*exo*- β -*D*-Glucopyranosyl-1,8-cineol = 2696
 28-*O*- β -*D*-Glucopyranosyl cochalic acid 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosiduronic acid = 2966
 28-*O*- β -*D*-Glucopyranosyl cochalic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)-[β -

- D*-galactopyranosyl(1→3)]-*β*-*D*-glucopyranosiduronic acid = 2967
- (8*R*,8'*R*) 9-*β*-*D*-Glucopyranosyl dihydrocubebin = 21036
- 6*α*-*O*-*β*-*D*-Glucopyranosyl)-15,16-dihydroxycyclohexa-3,13(14)-dien = 19212
- (2*R*)-5-*O*-*β*-*D*-Glucopyranosyl-7,4'-dihydroxy-3',5'-dimethoxyflavanone = 16999
- (2*S*)-5-*O*-*β*-*D*-Glucopyranosyl-7,4'-dihydroxy-3',5'-dimethoxyflavanone = 17000
- 3-*O*-*β*-*D*-Glucopyranosyl 3*α*,11*α*-dihydroxylup-20(29)-en-28-oic acid 28-*O*-*α*-*L*-rhamnopyranosyl-(1→4)-*β*-*D*-glucopyranosyl-(1→6)-*β*-*D*-glucopyranosyl ester = 73
- 3-*O*-*β*-*D*-Glucopyranosyl 3*β*,23-dihydroxylup-20(29)-en-28-oic acid 28-*O*-*α*-*L*-rhamnopyranosyl (1→4)-*β*-*D*-glucopyranosyl(1→6)-*β*-*D*-glucopyranoside = 3737
- 6*β*-*C*-Glucopyranosyl-5,7-dihydroxy-2-methylchromone = 2369
- 3-*O*-*β*-*D*-Glucopyranosyl-2*β*,3*β*-dihydroxyolean-12-ene-23,28-dioic acid (medicagenic acid) 28-*O*-*β*-*D*-glucopyranosyl-(1→6)-*O*-*β*-*D*-glucopyranosyl ester = 733
- (2*S*)-24-*O*-*β*-*D*-Glucopyranosyl-3*β*,24*β*-dihydroxy-5*α*-spirost-3-*O*-*α*-arabinopyranosyl-(1→6)-*β*-*D*-glucopyranoside = 3528
- (2*S*)-26-*O*-*β*-*D*-Glucopyranosyl-6*α*-26-dihydroxy-5*α*-spirosten-3-one 6-*O*-[*α*-*L*-rhamnopyranosyl-(1→3)-*β*-*D*-quinovopyranoside] = 21470
- (2*S*,2*S*) 26-*O*-*β*-*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3*β*,7*β*,26-triol 3-*O*-*β*-chacotrioxide = 45
- (2*S*,2*S*) 26-*O*-*β*-*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3*β*,7*β*,26-triol 3-*O*-*β*-solatrioxide = 47
- 26-*O*-*β*-*D*-Glucopyranosyl-(16*S*,20*S*,22*S*)-16*β*,22-epoxy-16*α*-methoxy-3*β*,26-dihydroxy-cycloartan-24-one-3-*O*-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucopyranoside = 1545
- (2*S*,2*S*) 26-*O*-*β*-*D*-Glucopyranosyl-22,25-epoxy-7*β*-methoxy-furost-5-ene-3*β*,26-diol 3-*O*-*β*-chacotrioxide = 46
- 26-*O*-*β*-*D*-Glucopyranosyl-(16*S*,20*S*,22*S*)-16*β*,22-epoxy-16*α*-methoxy-3*β*,25,26-trihydroxy-cycloartan-24-one-3-*O*-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucopyranoside = 1546
- 27-*O*-*β*-*D*-Glucopyranosyl-(20*S*,22*R*,24*S*,25*S*)-22,25-epoxy-3*β*,24,27-trihydroxy-cycloartan-16-one-3-*O*-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucopyranoside = 1549
- 3-*O*-*α*-*D*-Glucopyranosyl-*β*-*D*-fructopyranose = 22118
- 3-*O*-[*β*-*D*-glucopyranosyl(1→3)-*β*-*D*-fucopyranosyl]-3*β*,16*α*,23,28-tetrahydroxy-olean-11,13(18)-dien-30-oic acid 30-*O*-[pentito(1→1)]-*β*-*D*-glucopyranosyl-6-ester = 19164
- 3'-*O*-*β*-*D*-Glucopyranosyl[2'',3'',7,8]furanoflavone = 17709
- 26-*O*-*β*-*D*-Glucopyranosyl-25(*R*)-5*α*-furostan-20(22)-en-2*α*,3*β*,26-triol 3-*O*-*β*-*D*-xylopyranosyl(1→6)-*β*-*D*-glucopyranoside = 21673
- (2*S*)-26-*O*-*β*-*D*-Glucopyranosyl-5*α*-furostan-2*α*,3*β*,22*α*,26-tetraol 3-*O*-[*β*-*D*-glucopyranosyl-(1→2)-*O*-[*β*-*D*-glucopyranosyl-(1→3)]-*O*-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 16882
- (2*S*)-*O*-*β*-*D*-Glucopyranosyl-5*β*-furost-20(22)-ene-3*β*,26-diol-3-*O*-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucopyranoside = 1174
- 26-*O*-*β*-*D*-Glucopyranosyl-(25*R*)-5*α*-furost-3*β*,22*α*,26-triol 3-*O*-*β*-*D*-glucopyranosyl-(1→2)-[*β*-*D*-xylopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 22286
- 26-*O*-*β*-*D*-Glucopyranosyl-(25*R*)-5*α*-furost-3*β*,22*α*,26-triol-12-one-3-*O*-*β*-*D*-xylopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→2)-[*β*-*D*-xylopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 17614
- 26-*O*-*β*-*D*-Glucopyranosyl-(25*R*)-5*α*-furost-3*β*,22*α*,26-triol-12-one 3-*O*-*β*-*D*-glucopyranosyl-(1→2)-[*β*-*D*-xylopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 17613
- 26-*O*-*β*-*D*-Glucopyranosyl-(25*R*)-5*α*-furost-3*β*,22*α*,26-triol 3-*O*-*β*-*D*-xylopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 17616
- 26-*O*-*β*-*D*-Glucopyranosyl-(25*R*)-5*α*-furost-3*β*,22*α*,26-triol 3-*O*-*β*-*D*-xylopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→2)-[*β*-*D*-xylopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 17615
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-*β*-*D*-galactopyranosyl(1→2)-*β*-*D*-glucuronopyranosyl]soyasapogenol B = 20129
- 10-*O*-*β*-*D*-Glucopyranosyl geniposide = 8269
- 3-*O*-[*β*-*D*-Glucopyranosyl(1→3)-*β*-*D*-glucopyranosyl(1→3)-*α*-*L*-arabinopyranosyl]-16*α*,23-dihydroxyolean-12-ene 28-*O*-*β*-*D*-glucopyranosyl ester = 11801
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*α*-*L*-arabinopyranosyl]hederagenin 28-*O*-*β*-*D*-glucopyranosyl ester = 1607
- 3-*O*-*β*-*D*-Glucopyranosyl-(1→2)-*β*-*D*-glucopyranosyl-(1→3)-*α*-*L*-arabinopyranosyl-*β*-kudinlactone = 12300
- 3-*O*-*β*-*D*-Glucopyranosyl-(1→3)-*β*-*D*-glucopyranosylbayogenin 28-*O*-*β*-*D*-apiofuranosyl-(1→3)-*β*-*D*-xylopyranosyl-(1→4)-[*β*-*D*-apiofuranosyl-(1→3)]-*α*-*L*-rhamnopyranosyl-(1→2)-*α*-*L*-arabinopyranosyl ester = 4025
- 3-*O*-*β*-*D*-Glucopyranosyl (1→4)-*β*-*D*-glucopyranosyl echinocystic acid = 3978
- 3-*O*-[*β*-*D*-Glucopyranosyl(1→2)-*β*-*D*-glucopyranosyl]-16*α*-ethoxy-olean-12-ene-28-oic acid 28-*O*-*β*-*D*-glucopyranoside = 6702
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-*β*-*D*-glucopyranosyl-(1→3)-*β*-*D*-fucopyranosyl]-3*β*,16*α*,23,28-tetrahydroxy-olean-11,13(18)-dien-30-oic acid-30-*O*-[pentito(1→1)]-*β*-*D*-glucopyranosyl-6-ester = 19163
- 9-*O*-*β*-*D*-Glucopyranosyl-(1→3)-[*β*-*D*-glucopyranosyl-(1→6)]-*β*-*D*-Glucopyranoside = 22724
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl]echinocystic acid 28-*O*-*β*-*D*-glucopyranosyl ester = 1604
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl echinostic acid = 3977
- 6-*O*-[*α*-*D*-Glucopyranosyl-(1→6)]-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3*β*,6*α*,12*β*,25-tetrol = 22894
- 10'-*O*-[*β*-*D*-Glucopyranosyl-(1→6)]-*β*-*D*-glucopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→3)-*β*-*D*-glucopyranoside = 22725
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→3)-[*β*-*D*-glucopyranosyl-(1→2)]-*β*-*D*-glucopyranosyl]caulophyllogenin 28-*O*-*β*-*D*-glucopyranosyl ester = 1606
- 3-*O*-*β*-*D*-Glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl]hederagenin 28-*O*-*β*-*D*-glucopyranosyl ester = 1605
- 3-*O*-*β*-*D*-Glucopyranosyl-(1→6)-[*β*-*D*-glucopyranosyl (1→4)]-*β*-*D*-glucopyranosyl-olean-11,13(18)-diene-3*β*,16*β*,23,28-tetrol = 3845
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→2)-[*β*-*D*-glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl]oleanolic acid 28-*O*-*β*-*D*-glucopyranosyl ester = 1603
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→3)-*β*-*D*-glucopyranosyl-(1→3)-*β*-*D*-glucopyranosyl]serjanic acid = 19336
- 3-*O*-*β*-*D*-Glucopyranosyl-(1→6)-*β*-*D*-glucopyranosyl-(1→6)-*β*-*D*-glucopyranosyl-2*β*,3*β*,16*α*,23-tetrahydroxyolean-12-en-28-oic acid 28-*O*-*β*-*D*-xylopyranosyl-(1→4)-*α*-*L*-rhamnopyranosyl-(1→2)-*α*-*L*-arabinopyranoside = 17542
- 3*β*-*O*-*β*-*D*-Glucopyranosyl-(1→2)-*O*-*β*-*D*-glucopyranosyl-20-*O*-*β*-*D*-glucopyranosyl-3*β*,12*β*,20(*S*)-trihydroxy-24-hydrogenperoxide-dammar-25-ene = 8416
- 3-*O*-[*β*-*D*-Glucopyranosyl-(1→3)]-*β*-*D*-glucopyranosyl-(1→2)-*β*-*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3*β*,15*α*,16*α*,21*β*,

- 22 α ,28-hexahydroxyolean-12-ene = 9712
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene = 9713
- 3 β -*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-16 α -hydroxyolean-12-ene-28-oic acid-28-*O*- β -*D*-glucopyranoside = 6706
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl]jujubogenin = 2091
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl β -kudinlactone = 10980
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl 2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-ara- binopyranoside = 4800
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl 2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17539
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-en-28-oic acid = 17544
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-en-28-oic acid = 17545
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl]pseudojujubogenin = 2092
- 27-*O*- β -*D*-Glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranosylpubesanolide 3-*O*- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranoside = 22712
- 3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-[α -*L*-rhamnopyranosyl (1 \rightarrow 2)]- α -*L*-arabinopyranosyl 3 β ,19 α -dihydroxy-urs-12-en-28,20 β -olide = 10977
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl 3 β ,19 α -dihydroxyursolic acid = 12558
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-hederagenin-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 13299
- 3-*O*- β -*D*-Glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-[α -*L*-rhamnopyranosyl (1 \rightarrow 2)]- α -*L*-arabinopyranosyl γ -kudinlactone = 10978
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl- β -kudinlactone = 12301
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylpomolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19439
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyloleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19438
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]serjanic acid = 19335
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]serjanic acid 28-*O*- β -*D*-glucopyranoside = 19340
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-2 β ,3 β ,16 α ,23-tetrahydroxyolean-12-en-28-oic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17541
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,12 β ,20(*S*),25-tetrahydroxydammar-23-ene = 22900
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,20(*S*)-dihydroxy dammar-24-ene = 22901
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-3 β ,7 β ,12 β ,20(*S*)-tetrahydroxydammar-
- 5,24-diene = 22899
- 3-*O*-[*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl] zanhic acid 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)-*O*-(4-*O*-acetyl)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 729
- 4-*O*- α -*D*-Glucopyranosyl-*D*-glucose = 13454
- 4-*O*- β -*D*-Glucopyranosyl-*D*-glucose = 3383
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-(2-methylpropanoyl)-3 β ,15 α ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene = 9711
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl-22-*O*-acetyl-21-*O*-propanoyl-3 β ,15 β ,16 α ,21 β ,22 α ,28-hexahydroxyolean-12-ene = 9710
- 3-*O*- β -*D*-Glucopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 3738
- 3-*O*- β -*D*-Glucopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranosyl ester = 11121
- 2-*O*- β -*D*-Glucopyranosyl-6-hydroxy-2*H*-1,4-benzoxazin-3(4*H*)-one = 9858
- 3-*O*-[2'- β -*D*-Glucopyranosyl-3'-*O*-(2"-hydroxy-1"-carboxyethoxycarboxypropyl)]- β -*D*-glucopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranoside = 543
- 6'-(4"-*O*- β -*D*-Glucopyranosyl-3"-hydroxycinnamoyl)arbutin = 18879
- 26-*O*- β -*D*-Glucopyranosyl-22-hydroxy-25(*S*)-5 α -furostan-12-oxo-3 β ,26-diol-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 3)[α -*L*-arabinopyranosyl (1 \rightarrow 2)]- β -*D*-glucopyranosyl (1 \rightarrow 4)-[α -*L*-rhamnopyranosyl (1 \rightarrow 2)]- β -*D*-galactopyranoside = 3563
- (25*R*)-26-*O*- β -*D*-glucopyranosyl-22-hydroxy-5 β -furost-2 β ,3 β ,26-triol-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside = 13333
- 3-*O*- β -*D*-Glucopyranosyl-21- β -hydroxyhederagenin = 13063
- 7-*O*- β -*D*-Glucopyranosyl-4'-hydroxyisoflavanone = 5580
- 3-*O*- β -*D*-Glucopyranosyl 3 β -hydroxyolean-9(11),12-dien-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 3739
- 1- β -*D*-Glucopyranosyl-(2*S*,3*S*,4*R*,8*Z*)-2-[(2'*R*)-2'-hydroxylygnocenoyl-amino]-8-octadecene-1,3,4-triol = 9302
- 3-*O*- β -*D*-Glucopyranosyl-23-hydroxy-lup-20(29)-en-28-oic acid-28-*O*- β -*D*-glucopyranosyl ester = 2572
- 3-*O*- β -*D*-Glucopyranosyl-23-hydroxy-lup-20(29)-en-28-oic acid-28-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]ester = 2573
- 3-*O*- β -*D*-Glucopyranosyl ilexosapogenin A 28-*O*- β -*D*-glucopyranosyl ester = 18541
- (+)-9-*O*- β -*D*-Glucopyranosyl lyoniresinol = 13250
- 28-*O*- β -*D*-Glucopyranosyl machaerinic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)-[β -*D*-galactopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid = 2968
- 26-*O*- β -*D*-Glucopyranosyl-22-methoxy-3 β ,26-dihydroxy-25(*R*)-furost-5-en-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranoside = 14699
- (25*R*)-26-*O*- β -*D*-Glucopyranosyl-22-methoxy-5 β -furost-2 β ,3 β ,26-triol-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside = 13334
- 28-*O*- β -*D*-Glucopyranosyl moronic acid 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)-[β -*D*-galactopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid = 2965
- 2- β -*D*-Glucopyranosyloxy-4,6-dihydroxyisovalerophenone = 13261
- (-)(6*S*,9*S*)-9-*O*- β -*D*-Glucopyranosyloxy-6,13-dihydroxy-3-oxo- α -ionol = 20173
- 5-[β -*D*-Glucopyranosyloxy]-3,4-epoxy-10,14-dihydroxy-19-nor-bufa-20,22-dienolide = 9328
- 5-[β -*D*-Glucopyranosyloxy]-3,4-epoxy-14-hydroxy-19-oxo-bufa-20,22-

- dienolide = 9327
- (24R,25S)-3 β -[(β -D-Glucopyranosyl)-oxy]ergost-5-en-26-oic acid *O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl ester = 20598
- (24R,25S)-3 β -[(β -D-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl ester = 20597
- (24R,25S)-3 β -[(β -D-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)-*O*- β -D-glucopyranosyl-(1 \rightarrow 2)-*O*-[*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl ester = 20596
- (24S,25S)-24-[(β -D-Glucopyranosyl)oxy]-1 β ,2 β ,3 β ,4 β ,5 β ,7 β -hexahydroxy-spirostan-6-one = 22654
- (22S)-16 β -[(β -D-Glucopyranosyl)oxy]-22-hydroxycholest-5-en-3 β -yl *O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside = 20228
- (E)-4-(β -D-Glucopyranosyloxy)-2-(hydroxymethyl)-2-butenenitrile = 19377
- 1 α -*O*-(β -D-Glucopyranosyloxy)-7-epi-eudesma-11-en-2 β ,4 α -diol = 838
- 5 β -*O*-(β -D-Glucopyranosyloxy)-eudesma-4(15),11(13)-dien-12-oic-acid = 840
- 5 α -*O*-(β -D-Glucopyranosyloxy)-eudesma-3,11(13)-dien-12-oic acid = 841
- 2 β -*O*-(β -D-Glucopyranosyloxy)-eudesma-4 α -hydroxyl-11(13)-en-12-oic-acid = 839
- 3 β -*O*-(β -D-Glucopyranosyloxy)-megastigma-9-one = 842
- 3 α -[4-(β -D-Glucopyranosyloxy)-3-methoxy-5-(3-methyl-2-butenyl)benzoyloxy]tropane = 13788
- (S)-2-(β -D-Glucopyranosyloxy)-3-methylbutanenitrile = 9467
- (Z)-4-(β -D-Glucopyranosyloxy)-2-methyl-2-butenenitrile = 18790
- (4S)-4-(1- β -D-Glucopyranosyloxy-1-methyl)ethyl-1-cyclohexene-1-carboxylic acid = 16079
- 16 β -[(4'S)-5'-(β -D-Glucopyranosyloxy)-4'-methylpentanoyloxy]-3 β -hydroxy-5 α -pregnan-20-one 3-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)-*O*]- β -D-xylopyranosyl-(1 \rightarrow 2)-*O*-[β -D-xylopyranosyl-(1 \rightarrow 3)]-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)]- β -D-galactopyranoside = 16883
- (22S,23S,24R,25S)-24-[(β -D-Glucopyranosyl)oxy]-5 α -spirostane-3 β ,6 α ,23-triol 6-*O*- β -D-glucopyranoside = 697
- 3 β -D-Glucopyranosyloxy-6 α ,16 α ,20(S),27-tetrahydroxydammar-24(Z)-ene = 21891
- 5-[β -D-Glucopyranosyloxy]-10,14,16-trihydroxy-19-nor-{5 β ,10 β ,14 β ,16 β }-bufa-3,20,22-trienolide = 9326
- 3-*O*- β -D-Glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-ene-28-oic acid = 8711
- 3-*O*- β -D-Glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside = 17540
- 3-*O*- β -D-Glucopyranosyl-2 β ,3 β ,16 α ,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*- β -D-xylopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside = 4799
- 3-*O*- β -D-Glucopyranosyl-20(S)-protopanaxadiol 20-*O*- β -D-xylopyranosyl(1 \rightarrow 3)- β -D-xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside = 15833
- 3-*O*- β -D-Glucopyranosyl-20(S)-protopanaxadiol 20-*O*- β -D-xylopyranosyl(1 \rightarrow 4)- β -D-xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside = 15834
- 27-*O*- β -D-Glucopyranosylpubesanolide 3-*O*- β -D-glucopyranoside = 22713
- 27-*O*- β -D-Glucopyranosylpubesanolide 3-*O*- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside = 22711
- 1'- β -D-Glucopyranosyl-2-pyrrole-carboxylate = 2583
- 7-*O*- β -D-Glucopyranosyl-quercetin 3-*O*-(6-*O*-*trans-p*-coumaroyl)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside = 17494
- 3-*O*- β -D-Glucopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranosyl hederagenin 28-*O*- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl ester = 13298
- 3-*O*- β -D-Glucopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-hederagenin-28-*O*- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl ester = 15520
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl 3 β -hydroxy-urs-12,18-dien-28-oic acid 28-*O*- β -D-glucopyranosyl ester = 12557
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranosyl- β -kudinlactone = 12299
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosylpomolic acid 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside = 19440
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosylsaresinolic acid 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside = 19441
- 3-*O*-[β -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-galactopyranosyl-(1 \rightarrow 3)][β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl camelliagenin A 22-*O*-angelate = 13362
- 3 β -[(*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranosyl)oxy]pregna-5,16-dien-20-one = 20232
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyloleanolic acid 28-*O*- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside = 19437
- 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl oleanolic acid 28-*O*- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl ester = 1256
- 3-*O*-(β -D-Glucopyranosyl-(1 \rightarrow 3)-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl(1 \rightarrow 2)]- β -D-glucopyranosyl)cyclamiretin A = 16664
- 3-*O*- β -D-Glucopyranosylserjanic acid = 19333
- 6'-*O*- β -D-Glucopyranosylsweroside = 20512
- 2''-*O*- β -D-Glucopyranosylswertisin = 20172
- 4''- β -*O*-Glucopyranosyl swertisin = 23007
- 3-*O*- β -D-Glucopyranosyl 3 β ,12 β ,20(S),24(R)-tetrahydroxy-dammar-25-ene 20-*O*- β -D-glucopyranoside = 8433
- 3-*O*- β -D-Glucopyranosyl-2 β ,3 β ,16 α ,23-tetrahydroxyolean-12-en-28-oic acid 28-*O*- β -D-xylopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside = 17543
- 8-(*C*- β -D-Glucopyranosyl)-7,3',4'-trihydroxyflavone = 22476
- 7-*O*- β -D-Glucopyranosyl-5,7,4'-trihydroxyisoflavanone = 5621
- 3-*O*-{[β -D-Glucopyranosyl-(1 \rightarrow 2)]-[β -D-xylopyranosyl-(1 \rightarrow 4)]-[3-*O*-acetyl]- β -D-glucuronopyranosyl}-28-*O*-[β -D-glucopyranosyl]-oleanolic acid = 20537
- 3-*O*-[β -D-Glucopyranosyl-(1 \rightarrow 6)-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 3)-[α -D-fucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranoside] = 11910
- 3-*O*-[β -D-Glucopyranosyl-(1 \rightarrow 3)-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside] = 6557
- 3-*O*-[α -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl]-hederagenin = 1997
- 3-*O*-[β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-xylopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)][β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranosylolea-

- nolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19435
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyloleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19433
- 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylsialaresinolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19442
- 3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] = 6556
- 3-*O*- β -*D*-Glucopyranosyl zanhic acid 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)-*O*-(4-*O*-acetyl)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 732
- 3-*O*- β -*D*-Glucopyranosyl zanhic acid 28-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 3)-*O*-(4-*O*-acetyl)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 731
- 2-*O*-(β -*D*-Glucosyl) brucein A = 22860
- 2-*O*-(β -*D*-Glucosyl) brucein B = 22865
- 3-*O*-(β -*D*-Glucosyl) brucein B = 22868
- 3-*O*-(β -*D*-Glucosyl) brucein C = 22871
- 8-*C*-Glucosylgenkwanin = 11724
- 1-(3'- β -*D*-Glucosyloxy-4'-hydroxyphenyl)-3-hydroxymethyl-4-methoxy-6,7-methylenedioxy-2-naphthoic acid lactone = 11975
- 3-(2-*O*- β -*D*-Glucosylphenyl)propanoic acid = 5665
- 2- β -*D*-Glucosyl-1,3,6,7-tetrahydroxyxanthone = 13481
- 3-*O*- β -*D*-Glucuronopyranosyl azukisapogenol = 15199
- 3-*O*- β -*D*-Glucuronopyranosyl azukisapogenol 29-*O*- β -*D*-glucopyranosyl ester = 15200
- 3-*O*- β -*D*-Glucuronopyranosyl-24-hydroxy-olean-12-en-28-oic acid 28-*O*- β -*D*-glucopyranoside = 18852
- 3-*O*-[β -*D*-Glucuronopyranosyl]soyasapogenol B = 20117
- γ -*L*-Glutamyl-*L*- α -aminobutyryl glycine = 16153
- (*S*₂*R*₁*C*₇*R*₃)- γ -Glutamyl-*S*-benzylcysteine sulfoxide = 8777
- (*S*₂*R*₁*C*₇*S*₃)- γ -Glutamyl-*S*-benzylcysteine sulfoxide = 8778
- γ -*L*-Glutamyl-*L*-cysteinylglycine = 8785
- Glut-5-en-3 α -ol = 8786
- Glutin-5-en-3 β -ol = 8788
- Glycerol-2-*O*- β -*D*-galactofuranosyl (1 \rightarrow 3)-galactofuranoside = 8042
- Glycitein-7-*O*- β -*D*-glucoside = 8819
- 3-*O*- β -[29-(20-*O*-Glycolyl)-glyoxylyl]-oleanolic acid 28-*O*- β -*D*-glucopyranoside = 2364
- 3-*O*- β -*D*-Glycopyranosylsitosterol = 19987
- Glycuronic acid = 8761
- Glycyrrhetic acid-3-*O*- β -*D*-6"-*n*-butyl-glucuronopyranosyl-(1 \rightarrow 2)- β -*D*-6'-*n*-butyl-glucuronopyranoside = 5405
- Glycyrrhetic acid-3-*O*- β -*D*-6"-*n*-methyl-glucuronopyranosyl-(1 \rightarrow 2)- β -*D*-6'-*n*-butyl-glucuronopyranoside = 11038
- Glycyrrhetic acid acetate = 403
- Glycyrrhetic acid glycoside = 8846
- Glycyrrhizin = 8846
- Glycyrrhizinic acid = 8846
- Gniditrin = 15999
- Gomisin T-ol = 8926
- Goniothalenol = 1008
- (+)-(5*S*,6*S*,10*S*)- β -Gorgonene = 8953
- Goshuynic acid = 8956
- Gracilline = 8968
- Graveobioside B = 3604
- Greenhartin = 12501
- Grosheimin = 9015
- 5 α ,6 β ,7 β -*H*-1(10),3-Guaiadien-12,6 α -olide = 19947
- 1(10),4,11-guaiatrien-3,9-dione = 16070
- 4,10,11-guaiatriene-3-one-15-al = 16069
- 5 α ,6 β -*H*-1(10),3,7(11)-Guaiatrien-12,6 α -olide = 19948
- 1(5)-Guaien-11-ol = 9044
- (-)-Guaiol = 9044
- Guaipyridine = 6928
- Guanandin = 2989
- 4-Guanidino-butyric acid = 9069
- Guatambuine = 16085
- Guidongnin A = 9080
- Gulsamanin = 5995
- β -Guriunene = 2943
- β -Guttiiferin = 8128
- α ₂-Guttiiferin = 14967
- Guttiiferone E = 8218
- Gynosaponin E = 9126
- Gynosaponin G = 9128
- Gynosaponin K = 9131
- Gynosaponin M = 9133
- Gynosaponin S = 9134
- Gypenoside III = 8423
- Gypenoside VIII = 8427
- Gypsogenic acid-28-*O*- β -*D*-(6-*O*-acetyl)-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 6)-[β -*D*-glucopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranoside = 19660
- Gypsogenic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 70
- Gypsogenin-3- β -*D*-glucecronoside = 22303

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- Haematin = 9338
- Haemin = 9345
- Haitinosporine = 6219
- (*rel* 7*S*,8*S*,9*R*)-1(10),5,14-Halimatrien-7,13-diol = 22574
- Halleridone = 18615
- Hancinone D = 8040
- Hancoside = 9217
- Hanfangchin A = 21206
- Hannokinin = 17547
- Haplophytin B = 9223
- Harmidine = 9232
- Harpagide-aglucone-1-*O*-3',4'-seco-glycopyranoside = 3787
- Harpagide-aglucone-1-*O*- β -*D*-ribohexo-3-ulopyranoside = 3786
- Harringtonolide = 9194
- Hederacolchiside C = 819
- Hederacoside B = 819
- Hederagenin-23-*O*- α -*L*-arabinopyranoside = 17943

- Hederagenin 3-*O*-arabinoside = 3340
Hederagenin-23-*O*- β -*D*-glucopyranoside = 17944
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 3342
Hederagenin 3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 3)- α -*L*-arabinopyranoside = 6641
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-ribofuranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17949
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-xylopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17950
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-ribofuranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17947
Hederagenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-xylopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17948
Hederagenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 9276
Hederagenin-3-*O*- β -*D*-ribofuranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17946
Hederagenin-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 3)- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranoside = 17945
Hederasaponin B = 819
Hederidin = 9260
 β -Hederin = 6756
Heliotridine viridiflorate *N*-oxide = 6687
Hellebrigenin = 2721
Hellebrigenin glucorhamnoside = 9330
Hemanthamine = 9186
Hemipinic acid = 9349
m-Hemipinic acid = 9350
Hendecanoic acid = 22218
Henryine A = 6929
Heptacosane = 9368
1-Heptacosanol = 9370
1,9*E*-Heptadecadiene-4,6-diene-3*R*,8*S*-diol = 7708
1,9*Z*-Heptadecadiene-4,6-diene-3*R*,8*S*-diol = 7707
6-(8'*Z*,11'*Z*-Heptadecadienyl)-1,2,4-tetrahydroxybenzene-1-*O*-acetate = 1652
Z-14-Heptadecene = 9497
3''',4''',5''',7'''-Heptahydroxy-3,6''-biflavone = 18844
(20*R*,22*R*,24*S*)-2 β ,3 β ,11 α ,14 α ,20,22,24-Hepta-hydroxy-5 β -cholest-7-en-6-one = 18750
3,5,6,7,8,3',4'-Heptahydroxyflavan = 6624
2 α ,3 β ,5 β ,6 β ,8 α ,10 α ,16 α -Heptahydroxykalmene = 18811
Heptanedioic acid = 6194
Heptanoic acid = 6795
5-Heptyldihydrofuranone = 22217
Heraclenin = 16447
Heramandiol = 1194
Herbacitrin = 11238
Hernandine = 9445
Hesperetic acid = 9455
Hesperitin = 9456
Heteroauxin = 11031
Hetisan-2,3,9,15-tetrol 2-benzoate = 10962
3 β ,7 β ,8 β ,9 α ,14 α ,15 β -Hexaacetoxy-2 β *H*-jatropa-5*E*,11*E*-diene = 7613
2,10,12,6',10',14'-Hexachloroisoplagiochin C = 2185
Hexacosanoic acid = 3434
Hexacosanol-1 = 3435
Hexadecanamide = 16559
cis-9-Hexadecenoic acid = 16561
3,14,15,16,17,20-Hexadehydro-16-ethenylxayohimban-19,21-dione = 15290
(2*E*,4*E*)-Hexa-2,4-dienoic acid,2-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester = 4612
(2*E*,4*E*)-Hexa-2,4-dienoic acid,4-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester = 4613
4''a,5'',6'',7'',8'',8''a-Hexahydro-3',4'-dihydroxy-7-methoxy-5'',5'',8''a-trimethyl-4*H*-chromen[2'',3'':5,6]flavone = 22185
4,4 α ,5,6,7,8-Hexahydro-4,4 α -dimethyl-6-(1-methylethenyl)-2(3*H*)-naphthalene = 15705
(+)-(1*S*,4*aS*,5*R*,8*aS*)-1,2,4 α ,5,6,8 α -Hexahydro-3,8-dimethyl-5-(1-methylethyl)-naphthalenol = 1073
(+)-(1*S*,7*S*,7*aS*)-2,3,5,6,7,7*a*-Hexahydro-7,7*a*-dimethyl-1-(2-methylpropanonyl)-1*H*-indene = 5560
Hexahydrodoluene = 14270
7,7',8,8',11,12-Hexahydrolycopene = 17264
(1*R*)-1,2,3,4,5,6-Hexahydro-3-methyl-1,5-methano-8*H*-pyrido[1,2-*a*][1,5]diazocin-8-one = 14279
(+)-(4*R*,4*aR*,8*aS*)-3,4,4 α ,7,8,8*a*-Hexahydro-6-methyl-4-(1-methylethyl)-naphthalene-1-carbaldehyde = 1072
(2*S*,4*R*)-(-)-1,3,4,5,6,7-Hexahydro-1,1,5,5-tetramethyl-2*H*-2,4 α -methanonaphthalene = 11510
5,7,4',5'',7'',4''''-Hexahydroxy-(3,8'')-biflavone = 2347
2,3,14,20,22,24-Hexahydroxycholest-7-en-6-one = 18162
5 α ,6 β ,7 α ,10 α ,11 β ,12 α -Hexahydroxycyclodeca-1,4-benzoquinone = 982
3,3',4,4',5',7'-Hexahydroxyflavan = 18856
3,3',4',5',7'-Hexahydroxyflavone = 15170
2 α ,3 β ,5 β ,6 β ,10 α ,14 β -Hexahydroxygrayan-16-ene = 18806
2 α ,3 β ,5 β ,6 β ,10 α ,14 β -Hexahydroxygrayan-15-ene = 18807
3''',4',4''',5'',7''''-Hexahydroxy-5-methoxy-3,6''-biflavone = 18845
3 β ,11 α ,12 β ,14 β ,17 β ,20-Hexahydroxy pregn-5-ene = 5129
1 β ,2 α ,5 α ,9 α ,10 β ,13 α -Hexahydroxy-4(20),11-taxadiene = 9505
3',4,4',5,9,9'-Hexamethoxy-2,7'-cycloignan = 17231
5,7,8,3',4',5'-Hexamethoxyflavone = 2137
2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene = 20237
1,6-Hexanedicarboxylic acid = 20439
n-Hexanoic acid = 3139
trans-3-Hexen-1-ol = 9524
Hexylvinylcarbinol = 15696
Hibiscetin-heptamethylether = 9405
Higenamine = 5067
(10*RS*,11*RS*)-(2*E*,6*Z*,8*E*)-10,11-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide = 23025
Hinokiflavone 4''',7'''-dimethylether = 4286
Hinokiflavone 4'''-methylether = 4285
(-)-Hinokinin = 4310

- Hippacine = 4235
 (+)-Hippeastrine = 9547
 Hirsutrin = 11642
 Hispiduloside = 9617
 Holarrhesine = 9578
 Hollow alternanthera saponin B = 2973
 Homoaromoline = 9597
 α -Homochelidonine = 9600
 24,31-Homocyclotriuracall-9(11)-ene-3 β -ol = 19932
 Homoeriodictyol-7-*O*- β -*D*-(6"-*O*-acetyl)-glucopyranoside = 22541
 Homoeriodictyol-7-*O*- β -*D*-apiosyl-(1 \rightarrow 5)- β -*D*-apiosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 22540
 Homoeriodictyol-7-*O*- β -*D*-apiosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 22538
 Homopterocarpin = 6290
 4-Homopterocarpinol = 13679
 Homothalricrine = 9597
 Homotriboline = 11747
 Homovitexin = 11773
 Hopene-B = 9641
 Houttuynin = 4837
 HSYA = 10684
 2,9-Humuladien-6-one = 9665
 2,7(14),9-Humulatriene = 9670
 2,6,9-Humulatrien-8-one = 22984
 Hydrangetin = 4648
 Hydrocinchonidine = 3675
 Hydrocoumaric acid = 13678
 Hydroginkgolic acid = 1128
 16 α -Hydro-17-hydroxy-19-nor-*ent*-kauran-4 α -ol = 1327
 Hydromagnolol = 11519
 (24*Z*)-3 β -Hydroxy-14(13 \rightarrow 12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid = 22166
 16-Hydroxy-abieta-8,12-diene-11,14-dione = 17732
 (5*R*,10*S*)-12-Hydroxy-8,11,13-abetatriene-3,7-dione = 13477
 14-Hydroxy-abieta-8,11,13-trien-3-one = 22016
 Hydroxyacetic acid = 8827
 (4*S*,5*R*,6*S*,7*S*,8*R*)-6-Hydroxy-7-(α -acetoxybenzyl)-tetrahydrofuro[3,2-*b*]furan-2-one = 404
 3'(S)-Hydroxy-4'(S)-acetoxy-3',4'-dihydroseselin = 18284
 3 β -Hydroxy-12 β -acetoxy lanosta-7,9(11),24(*Z*)-trien-26-oic acid = 22164
 25-Hydroxy-3 α -acetoxy lanost-8-en-21-oic acid 21-*O*- β -*D*-xylopyranoside = 7870
 16 β -Hydroxy-17-acetoxy-19-nor-*ent*-kauran-4 α -formate = 1329
 16 β -Hydroxy-17-acetoxy-18-nor-*ent*-kauran-4 β -hydroperoxide = 1330
 2-Hydroxy-6-aminopurine-9- β -*D*-ribofuranoside = 4272
 17 β -Hydroxyandros-4-en-3-one = 21022
 3-Hydroxy-*p*-anisaldehyde = 11767
 8-Hydroxyapigenin = 11703
 9-Hydroxy-*A*⁽¹⁰⁾-aristolen-2-one = 4815
 Hydroxybenzene = 17089
 5-Hydroxy-1,3-benzenedicarboxylic acid = 10252
 4-Hydroxybenzoic acid methyl ester = 14652
 6'-*O*-*p*-Hydroxybenzoyl-8-epiloganic acid = 1539
 α -*O*-[2-*O*-(4-Hydroxybenzoyl)- β -*D*-glucopyranosyl]-3,4-dihydroxyphenyl-ethanol = 14919
 α -*O*-[2-*O*-(4-Hydroxybenzoyl)- β -*D*-glucopyranosyl]-4-hydroxyphenylethanol = 14917
N-*p*-Hydroxybenzoyl-5-hydroxy anthranilic acid = 13657
 4-Hydroxybenzyl alcohol 4-*O*- β -*D*-glucopyranoside = 8237
 10-(4-Hydroxybenzyl)-isorhapontigenin = 8897
 7-Hydroxy-3-benzylphthalide = 22155
p-Hydroxybenzyltartaric acid = 17479
 Hydroxybrazilein = 9337
 14 β -Hydroxybufa-4,20,22-trienolide 3 β -*O*-{ α -*L*-rhamnopyranosyl-[(1 \rightarrow 4)- β -*D*-glucopyranosyl]-(1 \rightarrow 3)- α -*L*-rhamnopyranoside} = 22250
 14-Hydroxy-bupleurynol = 2757
 Hydroxybutanedioic acid = 13419
 3-Hydroxy-2-butanone = 111
 7-Hydroxy-3-butyldiene-phthalide = 2796
 (*Z*)-5-Hydroxy-3-butyldiene-phthalide = 19733
 (3'*S*)-3'-Hydroxy-3-butyl phthalide β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3373
 (3'*S*)-3'-Hydroxy-3-butyl phthalide β -*D*-glucopyranoside = 3372
 7-Hydroxycadalin = 9869
 (+)-(1*R**,6*S**,7*S**,10*S**)-12-hydroxy-4,11(13)-cadinadiene = 19069
 (3*R*,5'*R*)-3-Hydroxy- β , κ -caroten-6'-one = 5158
 3 β -Hydroxy γ -cerane = 21174
 6*R*-(7*R*-Hydroxy-8*R*-chloro-8-phenyl)-5,6-dihydro-2-pyrone = 3555
 3 α -Hydroxy-5 β -cholan-24-oic acid = 12923
 Hydroxycromolaenide = 9570
 Hydroxycinchonine = 4373
m-Hydroxycinnamic acid = 4133
trans-*o*-Hydroxycinnamic acid = 4134
 4-Hydroxycinnamic acid = 4135
 6'-(4"-Hydroxycinnamoyl)arbutin = 18877
 (*E*) *N*-(4-Hydroxycinnamoyl)-5-methoxytryptamine = 3392
 (*Z*) *N*-(4-Hydroxycinnamoyl)-5-methoxytryptamine = 3393
 6*S*-(1*R*-Hydroxy-2*R*-cinnamyloxyphenethyl)-5,6-dihydro-5*S*-hydroxy-2-pyrone = 9655
 12 β -Hydroxyconessine = 9584
 5-Hydroxy-1-*p*-coumaric acyl-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside = 16074
 5-Hydroxy-1-(*p*-coumaric acyl-7'-*O*- β -*D*-glucopyranose)-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside = 16076
 7-Hydroxycoumarin = 22195
 7-Hydroxycoumarin farnesyl ether = 22196
 2 α -Hydroxy-3 β -*trans*-*p*-coumaroyl-28,19 β -oleanolide = 6462
 2-Hydroxy-2,4,6-cycloheptatrien-1-one = 22052
 1-Hydroxy-2-deacetoxytaxinine J = 20753
 1 β -Hydroxy-10-deacetylbaecatin I = 20824
 1 β -Hydroxy-5 α -deacetylbaecatin I = 20869
 1 α -Hydroxy-3-dehydroxypseudoanisatin = 9989
 11 β -Hydroxy-3 β ,6 α -diacetoxy-*ent*-kaur-16-en-15-one = 13701
 1 ζ -Hydroxydihydrocurcumin = 9855
 α -Hydroxy-6,7-dihydrogardenoside = 8266
 (2*S*)-5-Hydroxy-2-(*cis*-1',4'-dihydroxycyclohexyl)-7-methoxychroman-4-one = 10554
 (2*S*)-5-Hydroxy-2-(*trans*-1',4'-dihydroxycyclohexyl)-7-methoxychroman-4-

- one = 10555
- 7-Hydroxy-2-(3,4-dihydroxyphenyl)benzofuran-4-al = 21477
- 7-Hydroxy-2-(3,4-dihydroxyphenyl)-4-(1*E*-propenoyl-3-*oic acid*)benzofuran = 21478
- 10-Hydroxy-1,2-dimethoxy-4,5,6a,7-tetrahydro-dibenzo[de,g]quinoline-6-carboxylic acidmethyl ester = 18903
- 1-Hydroxy-2,3-dimethoxy-10-acetoxymethylacridone = 21421
- 4-Hydroxy-3,5-dimethoxybenzoic acid = 20566
- trans*-3-(4-Hydroxy-3,5-dimethoxy-benzylidene)-5-(4-hydroxy-3,5-dimethoxy-phenyl)-dihydrofuran-2-one = 5247
- 6-Hydroxy-2,4-dimethoxy-3,5-bis(3-methyl-2-butenyl)benzophenone = 15224
- 4-Hydroxy-2,4'-dimethoxychalcone = 8850
- N*-(4'-Hydroxy-3',5'-dimethoxycinnamoyl)- Δ^2 -pyridin-4-one = 3386
- N*-(4'-Hydroxy-3',5'-dimethoxycinnamoyl)- Δ^3 -pyridin-2-one = 5259
- 7-Hydroxy-6,8-dimethoxycoumarin glucoside = 6754
- 5-Hydroxy-6,7-dimethoxy-coumarin-5-*O*-glucoside = 21436
- 5-Hydroxy-4,9-dimethoxy-6-(3,4-dimethoxyphenyl)-2-(1-methylethenyl)-7*H*-furan[3,2-*g*]chromen-7-one = 21336
- 2'-Hydroxy-5,4'-dimethoxy-2''-2'-dimethylpyran-[5''-6''-6,7]isoflavone = 11016
- 7-Hydroxy-5,4'-dimethoxyflavanone = 22067
- 7-Hydroxy-3',4'-dimethoxyisoflavanquinone = 16804
- 8-Hydroxy-4',7-dimethoxyisoflavone 8-*O*-[α -rhamnopyranosyl-(1 \rightarrow 6)]- β -glucopyranoside = 5224
- 1-Hydroxy-6,7-dimethoxy-2-methylanthraquinone = 18870
- 5-Hydroxy-6,7-dimethoxy-3',4'-methylene-dioxy-flavone = 19127
- 4'-Hydroxy-5,3'-dimethoxy-6,7-methylenedioxyisoflavone = 11165
- 7-Hydroxy-5,8-dimethoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one = 16141
- 7-Hydroxy-2,10-dimethoxy-1,4-phenanthraquinone = 4586
- 3-(4-Hydroxy-3,5-dimethoxy-phenyl)-acrylic acid methyl ester = 19916
- 1*R**-(4-Hydroxy-3,5-dimethoxy-phenyl)-2*R**-[4-(3-hydroxy-propyl)-2,6-dimethoxy-phenoxy]-propane-1,3-diol = 2766
- 4-(4-Hydroxy-3,5-dimethoxy-phenyl)-5-methyl-dihydro-furan-2-one = 5246
- 3-(4-Hydroxy-3,5-dimethoxyphenyl)-prop-2-enol = 19922
- 5-Hydroxy-8-(1',1'-dimethylallyl) psoralen = 934
- 16 β -Hydroxy-20 α -dimethylamino-9 β ,19-cyclo-4,4,14 α -trimethy-5 α -pregn = 2819
- 2 α -Hydroxy-3 β -dimethylaminopregn-5-en-16-one = 12350
- O*⁷-(2*S*-2-Hydroxy-2,3-dimethyl-butanoyl) = 11647
- O*⁹-(2*S*-2 α -Hydroxy-2,3-dimethyl-butanoyl) = 9306
- O*⁹-(2*S*-2 β -Hydroxy-2,3-dimethyl-butanoyl) = 18661
- 7-Hydroxy-2'',2''-dimethylchromano[5,6:6',5'']-2''',2''-dimethylchromano[3',4':5''',6''']isoflavone = 6625
- (1*E*)-(1*R**,5*R**,9*S**)-9-Hydroxy-1-(2,6-dimethylhepta-1,5-dienyl)-3,6-dioxo-2-oxa-spiro[4.5]dec-7-ene = 14852
- (1*S*,6*R*,2*Z*,4*Z*)-5-[(1'-Hydroxy-2',6'-dimethyl-6'-hydroxymethyl-4'-oxo-8'- β -*D*-glucosyl)-cyclohex-2'-en-1'-yl]-3-methyl-penta-2,4-dienoic acid = 9748
- 3-*{rel*-(2*R*,3*R*)-4-Hydroxy-2,3-dimethyl-6-(3-methylbut-2-enyl)-6-[5-methyl-2-(2-methylpropenyl)hex-5-enyl]-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl}-3-phenylpropionic acid = 2593
- 3-*{rel*-(2*S*,3*R*)-4-Hydroxy-2,3-dimethyl-6-(3-methylbut-2-enyl)-6-[5-methyl-2-(2-methylpropenyl)hex-5-enyl]-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl}-3-phenylpropionic acid = 11264
- 2*R*-(7'-Hydroxy-4',8'-dimethyl-3'*E*,8'-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene = 4681
- 2*R*-(8'-Hydroxy-4',8'-dimethyl-3'*E*,6'*Z*-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene = 4683
- 2*R*-(9'-Hydroxy-4',8'-dimethyl-3'*E*,7'*E*-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene = 4684
- 7-[(*E*)-3'-Hydroxy-3',7'-dimethyl-4',6'-octadienyloxy]coumarin = 7765
- 7-[(3'*Z*,5'*E*)-7'-Hydroxy-3',7'-dimethyl-3',5'-octadienyloxy]coumarin = 7766
- 3-Hydroxy-2,24-dioxo-3-friedelen-29-*oic acid* = 3075
- 2-Hydroxy-3-docosanyl-5-methoxy-1,4-benzoquinone = 11178
- 2-Hydroxy-3-eicosanyl-5-methoxy-1,4-benzoquinone = 11176
- ω -Hydroxyemodin = 3765
- 3-Hydroxy-8-*epi*-larreatricin = 10077
- (3*S*,5*R*,6*S*,9*R*)-3-Hydroxy-5,6-epoxy- β -dihydroionyl-9-*O*- β -glucopyranoside = 19229
- 6 β -Hydroxy-7 α ,10 α -epoxyguaiane-4,5-ene = 16194
- (3*S*,5*R*,6*S*,7*E*,9*S*)-3-Hydroxy-5,6-epoxy- β -ionyl-9-*O*- β -glucopyranoside = 19228
- 6 β -Hydroxy-3 α ,20-epoxy-*ent*-kaur-16-en-1,7,15-trione = 12587
- 2-Hydroxyesculentic acid = 11812
- 3-Hydroxyestragole- β -*D*-glucopyranoside = 7522
- 3-Hydroxy-1,3,5(10)-estratrien-17-one = 7387
- 6 β -Hydroxy-7- α -ethoxy-16-acetoxy royleanone = 12998
- (24*Z*)-26-Hydroxy-7,24-euphadien-3-one = 10770
- 4'-Hydroxyeximine = 2611
- 5-Hydroxy-1-ferulic acyl-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside = 16075
- 5-Hydroxy-1-(ferulic acyl-7'-*O*- β -*D*-glucopyranose)-2,3-dihydro-1*H*-indole-2-carboxylic acid-6-*O*- β -*D*-glucopyranoside = 16077
- 2-Hydroxy-3-formylcarbazole = 15027
- 6-Hydroxy-3-(3-*O*- β -*D*-glucopyranosyl-but-1-enyl)-2,4,4-trimethyl-cyclohex-2-enone = 3086
- 9' α -Hydroxy-9 α -*O*- β -*D*-glucopyranosylpinoselin = 12444
- (1*S*,5*S*,6*S*,10*S*)-10-Hydroxyguaia-3,7(11)-dien-12,6-olide β -*D*-glucopyranoside = 4358
- (4*R*,10*R*)-10-Hydroxyguaia-1(5),6-dien-2-one = 15270
- (4*R*,10*S*)-10-Hydroxyguaia-1(5),6-dien-2-one = 15271
- 21 β -Hydroxy-gypsogenin = 13061
- 7-Hydroxyharman = 9236
- 2-Hydroxy-3-heptadecyl-5-methoxy, 1,4-benzoquinone = 11174
- 2-Hydroxy-3-hexadecyl-5-methoxy-1,4-benzoquinone = 11173
- 5-Hydroxy-6,7,8,3',4',5'-hexamethoxy flavone = 8228
- 4-Hydroxyhomopterocarpin = 13679
- 5-Hydroxy-2*E*,6*E*,9*E*-humulatrien-8-one = 10834
- 3 β -Hydroxy-18-hydroperoxy-15,20 α :18,20 β -diepoxy-13,14:14,15-disecopregna-5,12-dien-14-*oic acid* 16-oxy-lactone = 20275
- 6-Hydroxy-2-(4-hydroxybenzyl)-benzofuran-7-*C*- β -*D*-glucopyranoside = 18115
- 2-Hydroxy-2-*p*-hydroxybenzyl-3(2*H*)-6-hydroxybenzofuranone-7-*C*- β -*D*-glucopyranoside = 13579
- (2*S*)-5-Hydroxy-2-(1'-hydroxy-4',4'-dimethoxycyclohexyl)-7-methoxychroman-4-one = 6271
- (3*R*)-3-Hydroxy-12-[(1*S*,4*S*)-4-[(1*S*)-1-hydroxyethyl]-pyrrolidin-1-yl]-dodecanoic acid = 14990
- (3*R*)-3-Hydroxy-12-[(1*S*,4*S*)-4-[(1*S*)-1-hydroxyethyl]-pyrrolidin-1-yl]-

- dodecanoic acid-3-*O*- β -*D*-glucopyranoside = 14989
- (3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-hydroxymethyl-piperidin-1-yl]-dodecanoic acid-3-*O*- β -*D*-glucopyranoside = 14993
- 4'-Hydroxy-7,8-[2-(2-hydroxyisopropyl)dihydrofuran]flavan = 2626
- 1-Hydroxy-2-[2-hydroxy-3-methoxy-5-(1-hydroxyethyl)-phenyl]-3-(4-hydroxy-3,5-dimethoxy)-propane-1-*O*- β -*D*-glucuronopyranoside = 20654
- 6-Hydroxy-4 β -(4-hydroxy-3-methoxyphenyl)-3 α -hydroxymethyl-5-methoxy-3,4-dihydro-2-naphthaldehyde = 22566
- 6-Hydroxy-4-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-nicotinmethyl-2-naphthoic acid- γ -lactam = 22565
- 1-Hydroxy-2-hydroxymethyl anthraquinone = 5522
- (*S*)-(-)-7-Hydroxy-8-(2-hydroxy-3-methyl-3-butenyl)-2*H*-1-benzopyran-2-one = 5063
- 7-Hydroxy-6-(3-hydroxy-3-methyl-2-oxobutyl)-coumarin = 17035
- (3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid = 14992
- (3*R*)-3-Hydroxy-12-[(1*R*,4*S*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid = 14994
- (3*R*)-3-Hydroxy-12-[(1*R*,4*R*,5*S*)-4-hydroxy-5-methyl-piperidin-1-yl]-dodecanoic acid-3-*O*- β -*D*-glucopyranoside = 14991
- (6*R,S*)-(2*E*,7*E*,9*E*)-6-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-11-oxo-2,7,9-dodecatrienamide = 23023
- (11*R,S*)-(2*E*,7*E*,9*E*)-11-Hydroxy-*N*-(2-hydroxy-2-methyl-propyl)-6-oxo-2,7,9-dodecatrienamide = 23024
- (2*S*)-5-Hydroxy-2-(1'-hydroxy-4'-oxocyclohexyl)-7-methoxychroman-4-one = 16097
- 5-Hydroxy-3-(4-hydroxyphenyl)-8,8-dimethyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one = 5235
- (6*S*,9*S*)-6-Hydroxyinoside = 20173
- 15 β -Hydroxyisolineolone = 10248
- ent*-11 β -Hydroxy-8(14),15-isopimaradien-3-one = 687
- 1-[2'-Hydroxy-3',4'-(2''-isopropanoyldihydrofuran)-6'-methoxy-5'-(3''-methylbut-2''-enyl)]acetophenone = 572
- 3-[*rel*-(2*R*,3*R*)-4-hydroxy-6-(3 α -isopropenyl-2,2-dimethylcyclobutyl)- β -methyl-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid = 2591
- 3-[*rel*-(2*R*,3*R*)-4-hydroxy-6-(3 α -isopropenyl-2,2-dimethylcyclobutyl)- β -methyl-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid = 2592
- 3-[*rel*-(2*S*,3*R*)-4-hydroxy-6-(3 α -isopropenyl-2,2-dimethylcyclobutyl)- β -methyl-2,3-dimethyl-6-(3-methylbut-2-enyl)-5,7-dioxo-3,5,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid = 11262
- 3-[*rel*-(2*S*,3*R*)-5-hydroxy-6-(3 α -isopropenyl-2,2-dimethylcyclobutyl)- β -methyl-2,3-dimethyl-6-(3-methylbut-2-enyl)-4,7-dioxo-3,4,6,7-tetrahydro-2*H*-chromen-8-yl]-3-phenylpropionic acid = 11263
- 6-Hydroxykaempferol 3,6,4'-trimethylether = 19312
- 16*aH*-17-Hydroxy-*ent*-kauran-19-oic acid = 10277
- 16*a*-Hydroxy-*ent*-17-kauranyl aristolochate I = 1721
- 16*a*-Hydroxy-*ent*-17-kauranyl aristolochate II = 1722
- 6 β -Hydroxy-labdane-15,16-epoxy-14,13(16),8(9)-trien-3,7-dione = 9468
- (24*E*)-3 β -Hydroxy-5 α -lanosta-7,9(11),24-trien-26-al = 13019
- (3*R*,20*S*)-3-Hydroxyl-20-(5'-hydroxy-3'-methylpyridin-6'-yl)-5 α -pregnan-6-one = 7794
- 6-Hydroxy-limocitrin = 12840
- 8-Hydroxy-linalool-3-*O*- β -*D*-xylypyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 15402
- 15 β -Hydroxylineolone = 10327
- (6*R*)-6-Hydroxyl-7-octenoic acid 6-*O*- β -*D*-xylopyranosyl-(1'' \rightarrow 6'')-*O*- β -*D*-glucopyranosyl-(1'' \rightarrow 2'')-*O*- β -*D*-glucopyranoside = 10990
- 3 β -Hydroxyl-olean-12-en-28,29-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 72
- 21 β -Hydroxyloleonic acid-28-*O*- β -*D*-glucopyranoside = 13064
- 3 β -Hydroxyl-23-oxo-olean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 71
- 13-Hydroxylupanine = 15972
- 3 β -Hydroxy-18 β ,19*aH*-lup-20(29)-ene = 15482
- 30-Hydroxylup-20(29)-en-3-one = 16374
- 6-Hydroxyluteolol = 10351
- Hydroxymaltol 3-*O*-(6-*O*-*p*-coumaryl)- β -*D*-glucopyranoside = 2524
- p*-Hydroxymandelonitril-glucoside = 5283
- 5-Hydroxymatine = 20096
- (5*R*,6*R*,7*E*)-9-Hydroxymegastigmen-7-en-3-one *O*-primeveroside = 17522
- (9*R*,7*E*)-9-Hydroxymengastigmane-5,7-dien-4-one *O*-primeveroside = 17523
- (9*R*)-9-Hydroxymengastigman-5-en-4-one *O*-primeveroside = 17524
- 2-Hydroxy-1-methoxy-4,5,6*a*,7-tetrahydro-dibenzo[*de*.*g*]quinoline-6-carboxylic acidmethyl ester = 18901
- 2'-Hydroxy-4'-methoxyacetophenone = 16532
- 2-Hydroxy-1-methoxyanthraquinone = 900
- 1-Hydroxy-2-methoxyanthraquinone = 901
- 2(*S*)-(3'-Hydroxy-5'-methoxy)-benz-3(*S*)-ethoxycarbonyl-6-*trans*-ethyl acrylate-8-methoxy-benzofuran = 3304
- p*-Hydroxy-*m*-methoxy-benzonic acid = 22332
- 4-Hydroxy-3-methoxybenzyl alcohol = 22346
- (2*S*,3*S*)-2 α -(3''-Hydroxy-4''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) = 20424
- (2*S*,3*S*)-2 α -(4''-Hydroxy-3''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-*O*-(β -*D*-glucopyranoside) = 20425
- (2*S*,3*S*)-2 α -(4''-Hydroxy-3''-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4''-*O*-(β -*D*-glucopyranoside) = 20426
- 3-(4-Hydroxy-3-methoxy-benzyl)-5-[2-(4-hydroxy-3-methoxy-phenyl)-3-hydroxymethyl-7-methoxy-2,3-dihydro-benzofuran-5-yl]-4-hydroxymethyl-dihydro-furan-2-one = 6635
- 4-Hydroxy-3-methoxy-*trans*-cinnamaldehyde = 3983
- 4-Hydroxy-3-methoxycinnamic acid = 7768
- 2-Hydroxy-1-methoxy-4*H*-dibenzo[*de*.*g*]quinoline-4,5-(6*H*)-dione = 6466
- 5-Hydroxy-7-methoxy-6,8-dimethylflavone = 5270
- 7-Hydroxy-8-methoxyflavanone = 11484
- 5-Hydroxy-7-methoxyflavone = 20899
- 5-Hydroxy-7-methoxy-8-formyl-3-benzoyl-2,6-dimethyl-2*S*,3*R*-dihydrochromone = 5268
- 3'-Hydroxy,3-methoxy furo[8,7:4',5'']flavone = 3335
- 5-Hydroxy-7-methoxy-8-*C*- β -glucosylflavone = 12157
- 3-Hydroxy-1-methoxy-2-hydroxymethyl-9,10-anthraquinone-3-*O*- β -*D*-glucopyranoside = 12531
- 1-[2'-Hydroxy-6'-methoxy-5'-(2''-hydroxy-3''-methyl-3''-butenyl)-3',4'-(3''',3'''-dimethyl-1''-pyrenyl)]acetophenone = 575
- 7-Hydroxy-4'-methoxyisoflavone = 7883

- 5-Hydroxy-4'-methoxyisoflavone = 16546
 7-Hydroxy-6-methoxy-1(2*H*)-isoquinolinone = 5077
 3-Hydroxy-1-methoxy-2-methoxymethylanthraquinone-3-*O*- β -*D*-glucopyranoside = 12532
 3-Hydroxy-1-methoxy-2-methoxymethylanthraquinone-3-*O*- β -*D*-primeveroside = 12533
 5-Hydroxy-6-methoxy-7-(3-methyl-but-2-enyloxy)-2*H*-1-benzopyran-2-one = 11569
 2-Hydroxy-5-methoxy-3-methylcarbazole = 3153
 2-Hydroxy-8-methoxy-3-methylcarbazole = 3154
 2-Hydroxy-6-methoxy-3-methylcarbazole = 3155
 (7*S*,7*S*,8*S*,8*S*)-4-Hydroxy-3-methoxy-3',4'-methylenedioxy-7,7'-epoxilignan = 20651
 5-Hydroxy-7-methoxy-2-methyl-8-(2,3-epoxy-3-methylbutyl)chromone = 16912
 5-Hydroxy-7-methoxy-2-methyl-8-(1-hydroxy-3-methyl-3-butenyl)chromone = 16913
 5-Hydroxy-7-methoxy-2-methyl-8-(2-hydroxy-3-methyl-3-butenyl)chromone = 16914
 9-Hydroxy-3-methoxy-2-methyl-9-(2-methoxyphenyl)-14-oxa-bicyclo[3.2.1]octa-[*f*]quinolinone = 22634
 1-(3-Hydroxy-5-methoxy-4-methylphenyl)-2-(3-hydroxy-2-methoxyphenyl)ethane = 20382
 1-Hydroxy-2-methoxy noraporphine = 2838
 14-Hydroxy-13-methoxy-8-oxocyclohexa-3,11-diene-12-carbaldehyde = 8521
 14-Hydroxy-11-methoxy-8-oxocyclohexa-3,12-diene-12-carbaldehyde = 8522
 7-Hydroxy-2-methoxy-1,4-phenanthraquinone = 4585
 8 α -(4-Hydroxy-3-methoxy-phenyl)-6 β ,7 α -bis-hydroxymethyl-3-methoxy-5,6,7,8-tetrahydro-naphthalen-2-ol = 2765
 6-Hydroxy-7-Methoxy-4-phenylcoumarin = 4609
 5-Hydroxy-2-(4-methoxyphenyl)-2,3-dihydrobenzofuran = 4094
 6*R*-(7*R*-Hydroxy-8*R*-methoxy-8-phenyl)-5,6-dihydro-2-pyrone = 13943
 1-(4-Hydroxy-3-methoxyphenyl)-ethanone = 117
N-[2-[2-[(4-Hydroxy-3-methoxyphenyl)-2-hydroxy-1-hydroxymethyl]ethoxy]indol-3-yl]ethyl]-4-hydroxycinnamoyl amide = 11125
 2-(4-Hydroxy-3-methoxyphenyl)-3-hydroxymethyl-5-[*N*-2-(4-hydroxyphenyl)ethyl]carbamoylethenyl-7-methoxybenzodihydrofuran = 9014
erythro-1-(4-Hydroxy-3-methoxyphenyl)-2-[4-{2-[*N*-2-(4-hydroxyphenyl)ethyl]carbamoylethenyl-2-methoxyphenoxy}]₂-1,3-propanediol = 3054
 2-(4-Hydroxy-3-methoxyphenyl)-3-[*N*-2-(4-hydroxyphenyl)ethyl]carbamoyl-5-[*N*-2-(4-hydroxyphenyl)ethyl]carbamoylethenyl-7-methoxybenzodihydrofuran = 9013
 1-(4-Hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-1,6-heptadiene-3,5-dione = 5045
 2 α -(4'-Hydroxy-3'-methoxyphenyl)-6 α -(3'',4''-methylenedioxyphenyl)-8-oxo-3,7-dioxabicyclo[3.3.0]octane 4'-*O*-(β -*D*-glucopyranoside) = 20423
 1-(4'-Hydroxy-3'-methoxyphenyl)-7-phenyl-3-heptanol = 16461
 1-(4-Hydroxy-3-methoxyphenyl)-7-phenyl-1-hepten-3-one = 22877
 4-Hydroxy-3-methoxyphenylpropanol = 5564
 3-(4-Hydroxy-3-methoxyphenyl)-prop-2-enol = 3982
 4-Hydroxy-3-methoxyphenyl-1-*O*- β -*D*-(5-*O*-syringoyl)-apiofuranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 856
 4-Hydroxy-3-methoxyphenyl- β -*D*-xylopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 5534
 4'-Hydroxy-7-methoxy-6-prenylflavanone = 2173
 3-Hydroxy-9-methoxypterocarpan = 13637
L-3-Hydroxy-9-methoxypterocarpan = 13638
 (4*S*)-5-Hydroxy-4-methoxy- α -tetralone = 10460
 4-Hydroxy-7-methoxy-3-[1,2,6-trimethyl-7-(4-methyl-2-furyl)-hepta-2(*E*),5(*E*)-dienyl]-coumarin = 7985
 2-Hydroxymethylalloptaeroxylin = 16915
 2 α -Hydroxy-3 β -methylaminopregn-5-en-16-one = 12349
rel-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-6-Hydroxy-2-(2-methylbutanoyloxy)cleroda-3,13(16),14-triene-18,19-dicarboxaldehyde = 3263
 1-Hydroxy-4-(3-methyl-2-butenyl)-9*H*-carbazole-3-carboxaldehyde = 3794
 2-Hydroxy-1-(3-methyl-2-butenyl)-carbazole-3-carboxaldehyde = 9410
 5-[2'(*R*)-Hydroxy-3"-methyl-3"-butenyloxy]furocoumarin = 16488
 2-(3'-Hydroxy-3'-methylbutyl)-4-hydroxy-3,6-dimethoxyphenol-1-*O*- β -*D*-glucopyranoside = 18290
 2-(3'-Hydroxy-3'-methylbutyl)-4-hydroxy-5-methoxyphenol-1-*O*- β -*D*-glucopyranoside = 18289
 (2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[7-(cyclohexy-2-on-1(6-enyl)heptyl]pyrrolidine = 2645
 (2*R*,3*S*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[7-(cyclohexy-2-on-1(6-enyl)heptyl]pyrrolidine-4-*O*- β -*D*-glucopyranoside = 2646
 (2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(9*R*)-9,13-dihydroxytridecyl]pyrrolidine = 2638
 (2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*)-1-hydroxy-3-[6-(4-hydroxybutyl)-cyclohexy-2-on-1(6-enyl)propyl]pyrrolidine = 2639
 (2*S*,3*S*,4*S*,5*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(3-hydroxy-4-methoxyphenyl)-pyrrolidine = 18524
 (2*S*,3*S*,4*S*,5*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(4-hydroxyphenyl)-pyrrolidine = 18525
 (2*R*,3*S*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(*E*)-9-oxo-13-hydroxy-3-tridecenyl]pyrrolidine = 2644
 (2*S*,3*S*,4*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(9-oxo-13-hydroxytridecyl)-5-pyrroline = 2642
 (2*S*,3*S*,4*S*)-2-Hydroxymethyl-3,4-dihydroxy-5-(10-oxo-13-hydroxytridecyl)-5-pyrroline = 2643
 (2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*,5*S*)-1,5,13-trihydroxy-10-oxo-tridecyl]pyrrolidine = 2641
 (2*R*,3*R*,4*R*,5*R*)-2-Hydroxymethyl-3,4-dihydroxy-5-[(1*R*,10*S*)-1,10,13-trihydroxytridecyl]pyrrolidine = 2640
 1-(4-Hydroxy-2-methylenebutanoate)-6-((*S*)-3,4-dihydroxy-2-methylenebutanoate)- β -*D*-glucopyranose = 22107
 3 β -Hydroxy-24-methylene-lanosta-7,9(11)-dien-21-oic acid = 4909
 (4*S*,3*Z*)-4-Hydroxy-5-methylene-3-octadecylidene-di-hydro-furan-2-one = 23029
 2-Hydroxymethylfuran = 8025
 (-)-1*R*-3-Hydroxymethyl-1-(4'-hydroxy-3',5'-dimethoxyphenyl)-7-hydroxy-6,8-dimethoxy-1,2,3,4-tetrahydro-2-naphthalenylmethanol sulfate = 13254
 5-Hydroxymethyl-6-(4-hydroxy-3,5-dimethoxyphenyl)-8-oxa-bicyclo[3,2,1]oct-3-en-2-one = 5245
 2-Hydroxymethyl-3,4-[1'-hydroxy-2'-(1-hydroxy-1-methylethyl)-dihydrofuran]-8-hydroxyanthraquinone = 3133
 2-Hydroxymethyl-3,4-[2'-1-hydroxy-1-methylethyl]-dihydrofuran]anthraquinone = 3134
 2-Hydroxymethyl-3,4-[2'-(1-hydroxy-1-methylethyl)-dihydrofuran]-8-hydroxyanthraquinone = 3132
 2-Hydroxymethyl-1-methoxy-3,6-dihydroxyanthraquinone 3-*O*- β -glucopyranoside = 18227
 2-Hydroxymethyl-1-methoxy-3,5,6-trihydroxyanthraquinone 3-*O*- β -glucopy-

- ranoside = 18226
- 3'-[γ -Hydroxymethyl (*E*)- γ -methylallyl]-2,4,2',4'-tetrahydroxychalcone 11'-*O*-coumarate = 8262
- 2*R*-(3'-Hydroxy-8'-methyl-4'-methyliden-7'-nonaenyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene = 4682
- 21-*O*-(2-Hydroxymethyl-6-methyl-6-methoxy-2,7-octadienyl)acacic acid = 11916
- 5-Hydroxy-2-methyl-1,4-naphthoquinone = 17568
- 1-Hydroxy-2-(4-methylpent-3-enyl)anthraquinone = 1368
- 2-(Hydroxymethyl)phenyl- β -*D*-glucopyranoside = 19184
- (-)-4-Hydroxymethyl-2-(1',2',2'-trimethylcyclopentyl) phenol = 9425
- 10-Hydroxymontanin C = 425
- 9 β -Hydroxy-monticamine = 7673
- 13-Hydroxymulin-11-en-20-oic acid = 15062
- 2-Hydroxy-1,4-naphthalenedione = 12580
- 5-Hydroxy-1,4-naphthoquinone = 11903
- 24*S*-Hydroxy-neotokorogenin 1-*O*- α -*L*-arabinopyranosyl 24-*O*- β -*D*-glucopyranoside = 9341
- 2-Hydroxy-1,2,3-nonadecanetricarboxylic acid = 700
- 2-Hydroxy-3-nonadecyl-5-methoxy-1,4-benzoquinone = 11175
- 3-Hydroxy-25-norfriedel-3,1(10)-dien-2-one-30-oic acid = 21992
- 11- β -Hydroxyobacunone = 22971
- (12*R*)-Hydroxy-*cis*-9-octadecenoic acid = 18841
- 3-Hydroxy-1-octene = 15984
- 7-Hydroxy-2-octen-5-olide = 7659
- 3 β ,29-Hydroxy-olean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranoside = 69
- 3 α -Hydroxyolean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3740
- 3 α -Hydroxy-12-oleanen-24-oic acid = 2567
- 3-Hydroxy-12-oleanen-28-oic acid = 16050
- 27-Hydroxyolean-12-en-28-oic-acid-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranoside = 18521
- 3 β -Hydroxyolean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 6981
- 27-Hydroxyolean-12-en-3-one = 3471
- 29-Hydroxy oleanic acid = 13799
- 12-Hydroxyorthosiphonol A = 16230
- 19-Hydroxy-14-oxoabieta-8,13(15)-dien-16,12-olide 19-*O*- β -*D*-glucopyranoside = 17162
- 21-Hydroxy-23-oxo-20-en-limonin = 19801
- (24*Z*)-26-Hydroxy-3-oxo-7,24-euphadien-21-al = 10584
- (24*E*)-3 β -Hydroxy-7-oxo-5 α -lanosta-8,24-dien-26-al = 13021
- 16 α -Hydroxy-3-oxolanosta-8,24-dien-21-oic acid = 17388
- (20*S*)-3 α -Hydroxy-30-oxolupan-23,28-dioic acid 28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-ester = 75
- 23-Hydroxy-3-oxo-20(29)-lupen-28-oic acid = 18191
- 15 α -Hydroxy-3-oxo-24-methylenelanost-8-en-21-oic acid = 7858
- 15 α -Hydroxy-16-oxo-olean-12(13)-en-3-*O*- β -*D*-glucuronopyranoside = 7274
- 3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-(*n*-butyl-glucuronopyranosyl ester)-(1 \rightarrow 2)- β -*D*-(ethyl-glucuronopyranosyl ester) = 7422
- 3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-(*n*-butyl-glucuronopyranosyl ester)-(1 \rightarrow 2)- β -*D*-(methyl-glucuronopyranosyl ester) = 14185
- 3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-glucuronopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranoside = 8847
- 3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-glucuronopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranoside = 22243
- 3 β -Hydroxy-11-oxo-olean-12-en-30-oic acid-3-*O*- β -*D*-glucuronopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranoside = 22244
- (2*Z*)-2-[(1*R*)-1-Hydroxy-2-oxo-propyl]-icos-2-enoic acid methyl ester = 19628
- 3-Hydroxy-4-oxo-4*H*-pyran-2,6-dicarboxylic acid = 13632
- 3-[9 β -Hydroxy-2-oxo-4 α -quinolizidyl]-4-quinazolinone = 9698
- 12 α -Hydroxypachyrhizone = 10589
- 5 α -Hydroxy-2 α ,7 β ,9 α ,10 β ,13 α -Pentaacetoxy-4(20),11-taxadiene = 4849
- 5-Hydroxy-3,6,7,3',4'-pentamethoxy-flavone = 1792
- 5-Hydroxy-6,7,8,3',4'-pentamethoxyflavone = 5088
- threo*- Δ^7 -7-Hydroxy-3,4,5,3',5'-pentamethoxy-8-*O*-4'-neoligna = 17688
- Hydroxypeucedanin hydrate = 2041
- 6 α -Hydroxyphaseollin = 10600
- 4-Hydroxyphenethyl alcohol = 22170
- (2,3)*trans*-*N*-(*p*-Hydroxyphenethyl)ferulamide = 7788
- p*-Hydroxyphenethyl- β -*D*-glucoside = 18792
- 7-[2-(3-Hydroxyphenethyl)-4-hydroxy-6-methoxyphenoxy]-4-hydroxy-2-methoxy-9,10-dihydrophenanthrene = 17200
- 1-[4-Hydroxyphenoxy]-3-[3-hydroxy-4-methoxyphenyl]penta-1,4-diene = 10396
- 1-[4-Hydroxyphenoxy]-5-[3-methoxy-4-hydroxyphenyl]pent-2-en-3-yne = 13845
- 2-Hydroxy-2-phenylacetonitrile = 13478
- 2-Hydroxy-3-(phenylaminocarbonyl)naphthalene-1-azobenzene = 19458
- β -(4-Hydroxyphenyl)ethyl-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 2)-4-*O*-*trans*-feruloyl- β -*D*-glucopyranoside = 3838
- 2-(4-Hydroxyphenyl)ethyl-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 16254
- 4-(4'-Hydroxy-phenyl)-6-prenyl-7-hydroxy-coumarin = 11037
- 3-(2-Hydroxyphenyl)propanoic acid = 13678
- 3-(4-Hydroxyphenyl)propanoic acid = 17169
- 3-Hydroxy-2-(13-phenyltridecanoyl)-cyclohex-2-enone = 20494
- (2*E*,6*E*,10*Z*)-1-Hydroxy-2,6,10,14-phytatetraen-18-oic Acid = 11563
- 8'-Hydroxypinoresinol = 10652
- 8'-Hydroxypinoresinol-4'-*O*- β -*D*-glucoside = 10654
- 8-Hydroxypinoresinol-4'-*O*- β -*D*-glucoside = 10655
- 21-Hydroxypregn-4-ene-3,20-dione = 5163
- 2-Hydroxy-1,2,3-propanetricarboxylic acid = 3766
- 2-Hydroxypropanoic acid = 12436
- 2-[4-(3-Hydroxy-propyl)-2,6-dimethoxyphenoxy]-propane-1,3-diol = 2767
- 5-(3''-Hydroxypropyl)-7-methoxy-2-(3',4'-dimethoxyphenyl)-benzofuran 3''-*O*-[β -*D*-xylopyranoside-(1 \rightarrow 6)- β -*D*-glucopyranoside] = 20422
- (*S*)-4-Hydroxypterisin A = 16102
- 3-Hydroxy-4*H*-pyran-4-one = 18271
- 5-Hydroxy-2-pyridylmethyl-adenine = 16759
- (*Z*)-2-Hydroxy-3-(4-pyridyl)-2-propenoic acid = 1846
- 4-Hydroxy-2-pyrrolidinecarboxylic acid = 10660
- Hydroxysanguarine = 16473
- 16 α -Hydroxy-3,4-seco-lanosta-4(28),8,24-triene-3,21-dioic acid = 17727
- 16 α -Hydroxy-3,4-seco-24-methyl-lanosta-4(28),8,24(24')-triene-3,21-dioic acid = 17728
- (3*S*)-3'-Hydroxysedanolid β -*D*-glucopyranoside = 3374
- 12-Hydroxysenecionan-11,16-dione = 19706

- 3 β -Hydroxy-5 α ,25D-spirostan-12-one = 9253
 (25R)-3 β -Hydroxy-5 α -spirostan-6-one 3-O-[O- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside] = 12593
 (2 α ,3 β ,5 α)-Hydroxyspirostan-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-galactopyranoside = 21017
 Hydroxysuccinic acid = 13419
 3 β -Hydroxy-1 α ,7 β ,11 β ,15 β -tetraacetoxy-ent-kaur-16-ene = 608
 N-(2'-Hydroxy-n-tetracosanoyl)-n-eicosasphinga-(4E)-ene = 20227
 N-(2'-Hydroxy-n-tetracosanoyl)-1,3,4-trihydroxy-n-pentadeca-sphingosine = 20226
 (5E)-5-(2-Hydroxytetradexylidene)-furan-2(5H)-one = 10841
 (5Z)-5-(2-Hydroxytetradexylidene)-furan-2(5H)-one = 10842
 (-)-4-Hydroxy-1-tetralone = 10747
 (4S)-4-Hydroxy- α -tetralone 4-O- β -D-glucopyranoside = 11898
 5-Hydroxy-1,2,3,4-tetramethoxyanthraquinone = 18876
 4-Hydroxy-3,5,3',4'-tetramethoxybibenzyl = 3628
 6'-Hydroxy-2',3',4,4'-tetramethoxychalcon = 15993
 2-Hydroxy-1,6,7,8-tetramethoxy-3-methyl-9,10-anthracenedione = 3612
 2-Hydroxy-1,5,6,7-tetramethoxyphenanthrene = 3627
 1-Hydroxy-4,5,6,7-tetramethoxy-9H-xanthen-9-one = 20504
 1-Hydroxy-2,3,4,6-tetramethoxyxanthone = 6628
 (E)-7 β -Hydroxy-3,11,15,23-tetraoxolanosta-8,20(22)-dien-26-oic acid = 8162
 8 β -(4'-Hydroxytigloyloxy)-14-chloro-4 β ,10 β -dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-2,11(13)-dien-6,12-olide = 7567
 8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α :10 α ,14-diepoxy-2 β -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide = 7573
 3'(R)-Hydroxy-4'(R)-tigloyloxy-3',4'-dihydroseslin = 18282
 8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α -epoxy-2 β -acetoxy-10 α ,14-dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide = 7576
 8 β -(4'-Hydroxytigloyloxy)-2 β ,14-epoxy-10 α -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide = 7569
 8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α -epoxy-2 β ,10 α ,14-trihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-en-6,12-olide = 7575
 8 β -(4'-Hydroxytigloyloxy)-4 α -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-2,10-(14),11(13)-trien-6,12-olide = 7568
 8 β -(4'-Hydroxytigloyloxy)-2 β ,10 α ,14-trihydroxy-1 α H,5 α H,6 β H,7 α H-guai-3,11(13)-dien-6,12-olide = 7572
 8 β -(4'-Hydroxytigloyloxy)-2 β -acetoxy-14-chlorine-3 α ,4 α -epoxy-10 α -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-ene-6,12-olide = 7545
 8 β -(4'-Hydroxytigloyloxy)-14-chlorine-3 α ,4 α -epoxy-2 β ,10 α -dihydroxy-1 α H,5 α H,6 β H,7 α H-guai-11(13)-ene-6,12-olide = 7544
 8 β -(4'-Hydroxytigloyloxy)-3 α ,4 α -epoxy-2 β -hydroxy-1 α H,5 α H,6 β H,7 α H-guai-1(10),11(13)-diene-6,12-olide = 7541
 5 α -Hydroxy-2 α ,9 α ,10 β -triacetoxy-11,12-epoxy-taxa-4(20)-en-13-one = 20799
 3 β -Hydroxy-1 α ,7 β ,1 β -triacetoxy-ent-kaur-16-en-15-one = 607
 5 α -Hydroxy-9 α ,10 β ,13 α -triacetoxytaxa-4(20),11-diene = 10780
 rel-(2R,4S,6S)-4-Hydroxy-2-tridecyl-1,7-dioxo-dispiro[5.1.5.2]pentadeca-9,12-dien-11-one = 589
 2'-Hydroxy-4,4',6'-trimethoxychalcone = 7818
 (R)-5-Hydroxy-2',4',5'-trimethoxy-2'',2''-dimethylpyrano[5'',6'':6,7]isoflavone = 19108
 (7S,8R)-4-Hydroxy-3',4',5'-trimethoxy-7,8-seco-2,7-cyclolignan-7,8-dione = 19615
 trans-3-Hydroxy-2',3',5'-trimethoxystilbene(6) = 17199
 7-Hydroxy-1,2,3-trimethoxyxanthone = 16108
 5-Hydroxy-2,6,8-trimethylchromone 7-O- β -D-glucopyranoside = 22215
 4-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1-one = 21967
 1-(2-Hydroxy-2,6,6-trimethyl-4- β -D-glucosyloxycyclohexylidene)-butane-2,3-dione = 3085
 3-Hydroxy-3,7,11-trimethyl-9-oxododeca-1,10-diene = 15019
 3-Hydroxy-12-ursene-27,28-dioic acid = 18427
 27 α -Hydroxyurs-12-ene-3-O-[β -D-glucopyranosyl(1 \rightarrow 4)(2-O-sulpho)- β -D-quinovopyranoside] = 1998
 2 α -Hydroxyursolic acid = 4088
 19 α -Hydroxyursolic acid = 17696
 α -Hydroxyvaline = 16480
 β -Hydroxyvaline = 16481
 14'-Hydroxyvincal leukoblastine = 12732
 15' α -Hydroxyvincal leukoblastine = 22488
 17-Hydroxy withaferin = 7210
 Hymenoratin = 15991
 Hyndarine = 21077
 Hyperoside = 10887
 Hypolepin A = 18143
 Hypolepin C = 18144
- ## I
- Icariin = 1275
 Icaritin = 1273
 Ichthyopterin = 9853
 Idaein = 4439
 α , β -Dihydroxanthohumol = 5742
 Ikariside A = 2139
 Ikariside C = 6492
 Ilexgenin A = 6175
 Ilexol = 2169
 Ilexolide = 10981
 7H-Imadazo[4,5-d]pyrimidine = 18209
 4-Imidazoleacrylic acid = 22260
 22,26-Imino-17,23-oxidojerv-12-en-6-oxo-3 β ,11 α -diol = 22907
 Imperatorin oxide = 16447
 (17R,20S,22R)-5 α -Impra-15,16-ene-3 β ,6 β -diol = 5645
 3S,17R,20S,22R)-5 α -Impra-15,16-ene-6-one = 11005
 Inapine glucosinalbate = 19909
 Indan-1-one = 11013
 α -Indanone = 11013
 Indicine = 6686
 Indigo = 11023
 1H-Indole-3-acetonitrile 4-O- β -glucopyranoside = 3136
 1H-Indole-3-acetonitrile 4-O- β -(6'-O- β -glucopyranosyl)-glucopyranoside = 3137
 2,3-Indolinedione = 11190
 Indolo[2,1b]-quinazoline-6,12-dione = 18287
 Indolo[2,3-a]quinolizine-2-(1-hydroxyethyl)-3-hydroxy-4,6,7,12-tetrahydro-4-one = 15291
 (3,4-trans)-3-(5'-Indolyl)-1,4-dimethyl-4-[ethyl-2-(5''-indolyl)enyl]-cyclohex-1-ene = 3336
 (3,4-cis)-3-(5'-Indolyl)-1,4-dimethyl-4-[ethyl-2-(5''-indolyl)enyl]-cyclohex-1-ene = 3337

- 2-{4-[1-(1*H*-Indol-2-yl)-vinyl]-1-methyl-piperidin-3-ylidene} ethanol = 13501
 Ineupatolide = 7075
 Inflasaponin IV = 5405
 Inflatine = 12939
 Infractine = 14218
 Ingenol-3-(2,4-decadienoate)-20-acetate = 4820
 Inocalophyllin A = 2991
Chiro-Inositol = 11083
 Inrosidine = 12733
 Insularoside-3'-*O*- β -*D*-glucoside = 11089
 Irigenin-5-*O*-(6'''-*O*-vanillin acid)- β -*D*-glucoside = 19798
 Iriskashmirianin 4'-*O*- β -*D*-glucoside = 8349
 Irisquinone = 11179
 Iryelliptin B = 10515
 Isoacoradinene = 6373
 Isoamyl-3-furyl ketone = 16929
 Isoartemisia ketone = 1795
 Isoasarone = 957
 Isobarbaloin = 981
 Isobutanol = 11268
N-Isobutyl-4-hexanoyl-4-hydroxypyrrolidin-1-one = 17445
N-Isobutyl-3,4-methylenedioxybenzethenylamide = 7702
 4-Isobutyl-6-methyl-5-oxo-3a,4,5,7a-tetrahydro-1*H*-inden-13-oic acid = 22535
 Isocaboxine A = 22502
 Iso-4-cadinene-2 α ,10 β -diol = 11471
 Isocarthamin = 15358
 Isocaryophyllene = 3241
 Isocephalomannine = 4813
 Isochamic acid = 11322
 Isochlorogenic acid B = 5414
 (+)-Isocorydine = 11344
 Isocucurbitacin = 5114
 Isodextropimaric acid = 11600
 Isodihydronepetalactol = 11559
 Isodonol = 16183
trans-Isoeemicine = 11408
 Isofebrifugine = 5435
 Isoferulic acid = 9455
 Isoformononetin-4'-glucoside = 11576
 28-Isofucosterol = 11431
 Isofuranodiene = 8014
 Isofuranodienone = 8015
 Isofuranogermacrene = 4415
 Isogemichalcone C = 8262
 Isohenin = 11203
 Isokaempferide 7-*O*- β -*D*-glucopyranouronide = 2585
 Isokempferide = 12070
 (+)-Isolariciresinol = 11477
 Isoliquiritigenin = 21694
 Isoliquiritigenin-4- β -glucoside = 15414
 (-)-Isolongifolene = 11510
 Isolupinine = 6955
 Isomammeisin = 13469
 Isomesuol = 13470
L-Isomexoticin = 14825
 Isoorientin = 9616
 Isopelletierine = 16789
 Isopentanal = 11752
 Isopentanol = 11218
 8-Isopentenylimettin = 4193
trans-4-Isopentenyl-3,5,2',4'-tetrahydroxystilbene = 17841
 8(14),15-Isopimaradi-ene-6 α -ol = 13560
 2-Isopropenyl-2,3-dihydrobenzofuran-5-carboxylic acid = 7855
 7-Isopropenyl-2,3-dimethoxy-6-methyl-6-vinyl-5,6,7,8-tetrahydronaphthal-ene-1,4-dione = 9321
p-Isopropyl-benzaldehyde = 4354
 4-Isopropylbenzyl alcohol = 4357
 4-Isopropyltoluene = 4550
 Isopsoralen = 1191
 Isoquassin = 17327
 Isoquercetin = 11642
 Isoquercetrin = 11642
 Isorhamnetin-3-*O*- β -*D*-galactopyranoside = 2843
 Isorhamnetin 3-*O*-(6''-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside = 11669
 Isorhamnetin-3-*O*-(2^G- α -*L*-rhamnopyranosyl)- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 22154
 Isorhodeasapogenin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 9342
 7-Isorhynchophylline = 11680
 Isosarsapogenin = 20025
 Isosarsapogenin-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-mannopyranoside = 20027
 Isoschizandrolic acid = 11525
 Isoscutellarein-8-methyl ether = 10829
 Isostrictinin = 19277
 Isotadeonal = 11609
 Isotazettine = 17850
 Isoterpinene = 20998
 (+)-Isotetrandrine = 13715
 Isothiocyanato-benzene = 17125
 2-Isothiocyanato-butane = 2799
 3-Isothiocyanato-1-propene = 949
 Isovaleral = 11752
 Isovanillic acid = 10381
 Isoverbascoside = 11195
 Isovitexin 2''-*O*-(6'''-(*E*)-feruloyl)- β -glucopyranoside-4'-*O*- β -glucopyranoside = 11776
 Isovitexin 7-*O*- β -*D*-glucopyranoside = 19331
 Isovouacapenol C = 2244
 Isozaluzanin C = 7044
- ## J
- Jaeschkeanadiol *p*-hydroxybenzoate = 7792
 Jaeschkeanadiol *p*-methoxybenzoate = 7791
 Japonicine A = 852
 Jatamansone = 22313
 Jatrophalactam = 11842
 Jayacanol = 21719

Jayacanol 3-methyl ether = 5972
 Jikon = 8083
 Jionoside A₁ = 22664
 Judaicin = 20730
 Juruenolide E = 10516
 Justicidin E = 11981
 Juziphine = 22958

K

Kadsulignan K = 9466
 Kaempferol 3,7-di-*O*- α -rhamnopyranoside = 12018
 Kaempferol 3- α -*L*-(4-*O*-acetyl)rhamnopyranoside-7- α -*L*-rhamnopyranoside = 20499
 Kaempferol 3-*O*- α -*L*-arabinofuranoside = 11897
 Kaempferol-3-*O*-(6"-coumaroyl)-glucoside = 21392
 Kaempferol-3-*O*-[6"-(*E*)-*p*-coumaroyl]- α -*D*-mannopyranoside = 3297
 Kaempferol 3- α -*L*-(2,4-di-*O*-acetyl)rhamnopyranoside-7- α -*L*-rhamnopyranoside = 4214
 Kaempferol 3- α -*L*-(3,4-di-*O*-acetyl)rhamnopyranoside-7- α -*L*-rhamnopyranoside = 4215
 Kaempferol 3- α -*L*-(2,3-di-*O*-acetyl)rhamnopyranoside-7- α -*L*-rhamnopyranoside = 4216
 Kaempferol-3-*O*-[6",4"-di-(*E*)-*p*-coumaroyl]- α -*D*-mannopyranoside = 3298
 Kaempferol 3-(2,3-di-*E*-*p*-coumaroyl)- α -*L*-rhamnopyranoside = 17528
 Kaempferol 3-*O*-(2",6"-di-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside = 3846
 Kaempferol 3-*O*- β -*D*-galactopyranoside = 21634
 Kaempferol-3-*O*- β -*D*-glucopyranoside = 1935
 Kaempferol-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside] = 16587
 Kaempferol-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 20088
 Kaempferol-3-glucose-7-diglucoside = 12042
 Kaempferol-7-*O*- β -*D*-(6"-*O*-*p*-hydrocinnamoyl)-*D*-glucoside = 2392
 Kaempferol 3- β -*D*-mannoside = 1069
 Kaempferol-4'-methylether = 12015
 Kaempferol-7-methylether = 18682
 Kaempferol 3-*O*- α -*L*-rhamnopyranoside = 12082
 Kaempferol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-galactopyranosyl-7-*O*- α -*L*-rhamnopyranoside = 18859
 Kaempferol 3-*O*-(2"-*O*- α -rhamnopyranosyl)- β -glucopyranoside = 12071
 Kaempferol-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-*P*-coumaroyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside = 15195
 Kaempferol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-rabinofuranoside = 1778
 Kaempferol-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- β -*D*-galactopyranosyl-7-*O*- α -*L*-rhamnopyranoside = 1950
 Kaempferol-7-*O*- α -*L*-rhamnoside = 12083
 Kaempferol 3-*O*-(6"-*O*- α -rhamonpyranosyl)- β -glucopyranoside = 15525
 Kaempferol-3-*O*- β -rutinoside = 15525
 Kaempferol-3-rutinoside-7-glucoside = 12087
 Kainic acid = 936
 Kajiichigoside F1 = 21864
 Kakkonein = 22080
 Kalopanasaponin A = 9276
 Kalopanaxsaponin G = 18197
 Kalopanax septemlobus asponin A = 9276

Kalosapogenin = 9260
 Kanzuol = 21409
 Karoundiol 3-*O*-benzoate = 12166
 Kashmirine = 11002
ent-Kauran-16 β ,17-acetal *ent*-16 β -kauran-17(*S*)-aldehyde = 7965
ent-Kauran-16 β -hydroxy-17-chloride = 7958
 Kaurenoic acid = 12178
 16-*ent*-Kauren-19-ol = 12180
 Kelampayoside A = 21923
 Keracyanin = 4446
 Ketocalogenin-3-*O*- α -*L*-fucopyranoside = 13578
 Ketologanin = 4943
 4-Ketolutein = 6560
 Kidjolanin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 992
 Kidjolanin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 990
 Kidjolanin 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside = 991
 Kikemanine = 4104
 Kiuminine = 8257
 Kizutasaponin K₁₀ = 3343
 Klinit = 22814
 Koelreuteriasaponin A = 3340
 Koenidine = 12247
 Komalin = 9420
 (-)-Koumine = 12289
 Kumujancine = 7908
 Kumujian A = 3156
 Kumujian B = 3158
 3 α -Kurameroyloxytropene = 13786
 Kuwanon C = 15038

L

8(17),13-Labdadiene-6 α ,15-diol = 4270
 Lagerstroemine = 12450
 Lanceolatin C = 17708
 (24*R*)-Lanosta-7,9(11)-diene-2 α ,3 β ,12 α ,21,24,25-hexaol = 20443
 Lanosta-8,24-dien-3 β -ol = 12488
 Lanost-20(22)-ene-30-ol = 633
 (7'*S*,8*R*,8'*R*)-(+)-Lariciresinol = 12520
 Larixinic acid = 13452
 Laserpitin = 18282
 Laudanosoline 4',6-dimethyl ethe = 18655
 Laurencenone C = 16300
 Lauric acid = 12569
 Lecobetaine = 22232
 Ledebouridine = 12599
 Lederbourine = 12600
 Leonuride = 815
 Leptospermol = 21199

Leptospermone = 21199
 Leucaenol = 14868
 Leucuharmine = 9235
 Leukamenin F = 8515
 Leuroristine = 22497
 Licoagrochalcone = 12751
 Licoagroside = 12759
 Licoflavone = 12774
 Licoisoflavone A = 12778
 Liconeolignan = 12764
 Limbatolide C = 7835
 Limettin = 3770
 (*R*)-(+)-Limonene = 12843
 (*S*)-(-)-Limonene = 12844
 Limonianin = 1956
 Limonindiosphenol = 7669
 Limonoid = 5147
 Linalool acetate = 12850
 Lindeneol = 12871
 Lindenyl acetate = 12872
 Linderic acid = 6543
 Linearoside = 15133
trans,trans-Linoleic acid = 12892
 Linolenic acid methyl ester = 14555
 Liquidambronic acid = 2338
 Lirioresinol B = 20556
 Lirioresinol dimethyl ether = 5378
 α -Lobeline = 12939
 β -Lofoline = 7741
 Loganoside = 12950
 Lomatin = 11835
 Lonchocarpol A = 6497
 Loniceroid = 19623
 Lophenol = 14235
 Lucidenic acid D = 13027
 Lucidenolactone = 8195
 Ludongnin B = 9081
 lupanidine = 13606
 12-Lupanone = 3843
 Lupenyl acetate = 13100
 Lupeol caffeate = 2910
 Luteolin-7-apio-glucoside = 8990
 Luteolin 6-*C*- α -*L*-arabinopyranosyl-8-*C*- β -*D*-glucopyranoside = 11306
 Luteolin-6-*C*- β -*D*-glucopyranoside = 9616
 Luteolin-8-*C*- β -*D*-glucopyranoside = 16196
 Luteolin 7-*O*- β -*D*-glucopyranosiduronic acid = 13147
 Luteolin-7-*O*-glucoside = 3674
 Luteolin-7-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside = 12987
 Luteolin 7-*O*-rutinoside = 13149
 Lyciumamide = 1345
 Lyclavatol = 3810
 Lycobergine = 13193
 Lycopersicin = 21435

Lycopersidin = 21435
 Lycoremine = 8083
 3-*O*- β -Lycotetraosyl-(23*S*,24*R*)-23-acetoxy-24-*O*- β -*D*-glucopyranosylsoladulide-24-ol = 13218
 3-*O*- β -Lycotetraosyl-23(*R*)-23-acetoxy-27-hydroxy-27-*O*- β -*D*-glucopyranosyltomatidine = 13217
 3-*O*- β -Lycotetraosyl 3 β ,16 β -dihydroxy-5 α -pregn-20-one 16-*O*-[(4*S*)-2,5-epimino-2-methoxy-4-(β -*D*-glucopyranosyloxy) methyl-pentanoic acid]-ester = 7378
 3-*O*- β -Lycotetraosyl(5*S*,25*S*)-22,26-epimino-16 β ,23-epoxy-23 α -methoxy-22(*N*)-ene-3 β ,20 α ,27-trihydroxycholestane 27-*O*- β -*D*-glucopyranoside = 7377
 3-*O*- β -Lycotetraosyl-22-isopimpifolidine = 13219
 (+)-Lyoniresinol-2 α -*O*- α -*L*-arabinopyranoside (D₁) = 8242
 (+)-Lyoniresinol-9,9'-diacetate = 8241
 (+)-Lyoniresinol 3 α -[2-(3,5-dimethoxy-4-hydroxy)-benzoyl]-*O*- β -glucopyranoside = 63
 Lyonotin = 1847

M

Maackolin = 12258
 Maaliol = 13283
 (8*S*,8'*R*)-Macelignan = 1466
 Macluraxanthone = 9857
 Macrocalyxin C = 1038
 Macrocalyxoforin C = 11056
 Maculotoxin = 21211
 Madasiatic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 3396
 Madecassic acid = 2586
 Madecassic acid 28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 3395
 Maesaponin = 13358
 Magnolenin = 20569
 Mahanimbicine = 11520
 Mahuangnin A = 6822
 Makisterone C = 12620
 Malonylginsenoside Rb₁ = 13444
 Maltobiose = 13454
 Maltodiose = 13454
 Maltol-3-*O*- β -*D*-glucopyranoside = 5371
 Malvalic acid = 13455
 Malvin = 13460
 Mammeigin = 13467
 α -Mangostin = 13492
 Maniladiol = 16041
 Margaric acid = 4672
 Margaspidin BB = 13559
 Margetine = 13238
 (+)-Marmesinin = 15647
 Marsupin = 3222
 (-)-Maslinic acid = 6059
 Masticadienolic acid = 10363
cis-Matrine = 13606
 Matrine *N*-oxide = 16451

- Matsutake alcohol = 15983
Matsutakeol = 13608
Maytenfolic acid = 27
Mearnsetin-3-*O*- α -rhamnopyranoside = 13628
Mecambrine = 7980
Medioresinol = 13640
(+)-Medioresinol monoglucoside = 7487
(3*S*,9*S*,5*Z*,7*E*)-Megastigma-5,7-diene-3,9-dihydroxy-4-one 9-*O*- β -*D*-glucopyranoside = 20264
(3*S*,5*R*,6*S*,9*S*)-Megastigman-3,9-diol 3-*O*- β -*D*-glucopyranoside = 15212
(3*S*,9*S*)-Megastigman-5-ene-3,9-diol 3,9-di-*O*- β -*D*-glucopyranoside = 20274
(1*S*,3*S*,5*R*,6*R*,9*R*)-Megastigman-7-ene-3,9-diol-5,12-epoxide 9-*O*- β -*D*-glucopyranoside = 2610
(3*S*,4*S*,5*R*,6*S*,9*S*,7*E*)-Megastigman-7-ene-5,6-epoxy-3,4,9-triol 9-*O*- β -*D*-glucopyranoside = 20266
(3*R*,4*R*,5*R*,6*R*,9*S*,7*E*)-Megastigman-7-ene-3,4,5,9-tetraol 9-*O*- β -*D*-glucopyranoside = 20273
(3*R*,5*R*,6*R*,9*S*,7*E*)-Megastigman-7-ene-3,5,6,9-tetrol 9-*O*- β -*D*-glucopyranoside = 20265
(3*S**,5*R**,6*S**,9 ζ)-Megastigman-7-ene-3,6,9,10-tetrol 9-*O*- β -*D*-glucopyranoside = 2608
(3*S**,5*R**,6*S**,9 ζ)-Megastigman-7-ene-3,6,9,10-tetrol 10-*O*- β -*D*-glucopyranoside = 2609
(5*R*,6*S*,9 ζ)-Megastigman-7-ene-6,9,10-triol-3-one 9-*O*- β -*D*-glucopyranoside = 2607
(3*S*,5*R*,6*R*,9*S*,7*E*)-Megastigman-5,6-epoxy-7-ene-3,9-diol 9-*O*- β -*D*-glucopyranoside = 20271
(5*R*,6*R*,9*R*)-Megastigman-3-on-6,9-diol 9-*O*- β -*D*-glucopyranoside = 15211
(6*R*,7*E*,9*S*)-Megastigman-3-one-4,7-diene-9,13-diol 13-*O*- β -*D*-glucopyranoside = 8567
(6*S*,7*E*,9*S*)-Megastigman-3-one-4,7-diene-6,9,13-triol 13-*O*- β -*D*-glucopyranoside = 8565
(6*R*,9*S*)-Megastigman-3-on-4-ene-9,13-diol = 8566
(6*S*,9*R*)-Megastigman-3-on-4-ene-9-ol 9-*O*- β -*D*-glucopyranoside = 2522
(5*R*,6*S*,9*R*)-Megastigma-3-on-9-ol 9-*O*- β -*D*-glucopyranoside = 15210
Melanthigenin = 9260
Meliotocarpin A = 13679
Melissic acid B = 9366
Melittoside 3"-*O*- β -glucopyranoside = 18599
Menisporohine = 13717
1,8-*p*-Menthadiene = 6482
(*R*)-(+)-*m*-Mentha-6,8-diene = 20524
p-Mentha-1,4(8)-diene = 20998
p-3,8(9)-Menthadien-1-ol = 13727
p-(*R*)-Mentha-1,8-dien-7-ol = 16927
p-(*S*)-Mentha-1,8-dien-7-ol = 16928
Meratin = 18342
Mesatlantin E = 4941
Methanal = 7881
Methanoic acid = 7882
7 α -Methoxy-8,13-abieta-11,12-dione = 20462
7 α -Methoxyabieta-8,13-diene-11,12-dione-(20,6 β)-olide = 18923
7 β -Methoxyabieta-8,13-diene-11,12-dione-(20,6 β)-olide = 18922
4-Methoxyallylbenzene = 7385
4-Methoxybenzoic acid = 1284
3 α -(4-Methoxybenzoyloxy)nortropane = 13785
3-(4-Methoxybenzyl)-5,7-dimethoxychroman-4-one = 6256
3-Methoxycarbonylcarbazole = 14217
(8 α)-6'-Methoxycinchonan-9-one = 18424
p-Methoxycinnamic acid ethyl ether = 7474
4-*O*-(*E*)-*p*-Methoxycinnamoyl- α -*L*-rhamnopyranoside = 2712
6-*O*-*E*-*p*-Methoxycinnamoyl scandoside methyl ester = 13895
5'-Methoxy-cleomiscosin A = 3831
7-Methoxycoumarin = 9452
7-Methoxydaphnoritin = 4658
6-Methoxy-5,6-dihydrochelerythrine = 3499
1- β -Methoxy-3,4-dihydro-3 α -hydroxy-8-*O*-acetylharpagide aglucone = 3785
2-Methoxy-4,6-dihydroxy- α' -chalcanol- α -*epoxide*-4-*O*- β -*D*-glucopyranoside = 21631
2-Methoxy-4,7-dihydroxy-6-isopentenyl-9,10-dihydrophenanthrene = 19930
7-Methoxy-8-(2',3'-dihydroxy-3'-methylbutyl)coumarin = 13781
3'-Methoxy-4',5'-dihydroxy-6,7-methylenedioxyisoflavone = 11152
7-Methoxy-2,2-dimethyl-2*H*-1-benzopyran-6-carboxylic acid = 13840
5-Methoxy-*N,N*-dimethyl-tryptamine = 6370
(5' β ,9' α ,10' α)-7-*O*-(3 α -Methoxy-8'(12')-drimen-11'-yl)-scopoletin = 6604
3-Methoxy-6-*O*- β -*D*-glucopyranosyl[2'',3'':7,8]furanoflavone = 17711
6-Methoxy-3'-*O*- β -*D*-glucopyranosyl[2'',3'':7,8]furanoflavone = 17710
4-Methoxy-6-(β -*D*-glucopyranoxymethyl)-2*H*-pyran-2-one = 16160
3-Methoxy-4-*O*- β -*D*-glycopyranosylpropiophenone = 2107
(2*R*,3*R*)-5'-MethoxyguayaroI [(2*R*,3*R*)-3-(3,4-dihydroxybenzyl)-2-(3,4,5-trimethoxybenzyl)-butyrolactone] = 13945
10-Methoxyheptadeca-1-ene-4,6-diyne-3,9-diol = 16586
3-(α -Methoxy-4-hydroxybenzylidene)-6-hydroxybenzo-2(3*H*)-furanone-7-*C*- β -*D*-glucopyranoside = 18106
4-Methoxy-5-hydroxycanthin-6-one = 15561
 α -*O*-[2-*O*-(3-Methoxy-4-hydroxycinnamoyl)- β -*D*-glucopyranosyl]-3,4-dihydroxyphenylethanol = 14918
(*E*)-*N*-(3-Methoxy-4-hydroxycinnamoyl)-5-hydroxytryptamine = 14999
(*Z*)-*N*-(3-Methoxy-4-hydroxycinnamoyl)-5-hydroxytryptamine = 14998
6-Methoxy-7-hydroxycoumarin = 19542
4'-Methoxy-5-hydroxy-8-3,3-dimethylallyl-flavone-3-glucosyl-(1 \rightarrow 2)rhamnoside-7-glucoside = 6959
4'-Methoxy-5-hydroxy-8-3,3-dimethyl allylflavone-3-rhamnosyl-(1 \rightarrow 2)rhamnoside-7-glucoside = 6961
4'-Methoxy-5-hydroxy-8-3,3-dimethyl allylflavone-3-xyloxy-(1 \rightarrow 2)rhamnoside-7-glucoside = 6960
5-Methoxy-12-hydroxy-11,14-dioxo-abieta-8,12,15-triene = 2584
3-Methoxy-4-hydroxyl-5-(3'-methyl-2') butylenyl benzoic acid = 17902
3-Methoxy-4-hydroxyphenyl-1-*O*- α -*L*-rhamnopyranosyl-(1'' \rightarrow 6'')- β -*D*-glucopyranoside = 4365
5-Methoxy-8-(3''-hydroxymethyl-but-2''-enyloxy)-psoralen = 13963
N-(3'-Methoxy-4'-hydroxyphenethyl)-4-*O*- β -*D*-galactopyranosyl-isoferulamide = 11331
3-Methoxy-4-hydroxy-phenethyl-*O*-[α -*L*-rhamno-pyranosyl-(1 \rightarrow 3)]-*O*-[β -*D*-apiofuranosyl-(1 \rightarrow 6)]-4-*O*-feruloyl- β -*D*-glucopyranoside = 12462
2-(3-Methoxy-4-hydroxy) phenyl ethanol 1-*O*- α -*L*-[(1 \rightarrow 3)-rhamnopyranosyl-6-*O*-feruloyl] glucoside = 6965
4''-(3'''-Methoxy-4'''-hydroxyphenyl)-2''-oxo-3'''-enebutanyl 3-(3'-methoxy-4'-

- hydroxyphenyl)propenoate = 2960
- 5-Methoxy-(+)-isolariciresinol-9,9'-diacetate = 8240
- 3'-Methoxyisovitexin 2''-*O*-(6'''-(*E*)-*p*-coumaroyl)- β -glucopyranoside = 11700
- 3'-Methoxyisovitexin 2''-*O*-(6'''-(*E*)-*p*-coumaroyl)- β -glucopyranoside-4'-*O*- β -glucopyranoside = 11701
- (10*R*)-15-Methoxy-8(17),13-labdadien-16,15-olide-19-oic acid = 14069
- (10*S*)-15-Methoxy-8(17),13-labdadien-16,15-olide-19-oic acid = 14070
- 6-Methoxycarbonyl-3,3-dimethyl-4 α ,6 α -di(γ,γ -dimethylallyl)-2 α -(2-methyl-1-oxo-propyl)cyclohexanone = 8217
- 4'-Methoxyquercetin-3-*O*- β -*D*-xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranoside-3'-*O*- β -*D*-glucopyranoside = 662
- 3-Methoxyl-9'- α -*L*-rhamnopyranosyl-4':7,5':8-diepoxyneoligan-4,9-diol = 13587
- 6-Methoxyluteolin = 7556
- 6-Methoxyluteolin-7-glucoside = 7557
- 7-Methoxy-8-(1'-methoxy-2'-hydroxy-3'-methyl-3'-butenyl)coumarin = 859
- 5-Methoxy-2-(4-methoxyphenyl)-benzofuran = 4095
- 5-Methoxy-2-(4-methoxyphenyl)-2,3-dihydrobenzofuran = 4093
- 7-Methoxy-8-(3-methyl-2-butenyl)-2*H*-1-benzopyran-2-one = 16261
- 2-Methoxy-3-methyl-4,6-dihydroxy-5(3'-hydroxyl)cinnamoylbenzaldehyde = 5269
- 7-Methoxy-3',4'-methylenedioxyflavone = 14376
- 3-Methoxy-3',4'-methylenedioxy-7-*O*- β -*D*-glucopyranosyl flavone = 17712
- 2-(3-Methoxy-4,5-methylenedioxyphenyl)-4*H*-1-benzopyran-4-one = 14016
- 4-Methoxy-3-methyl-5-[(2*Z*,11*aS*)-3*at*,11*t*-epoxy-8*t*-(1*R*)-1-hydroxypropyl)-1*c*-methyl-(11*ar*,11*bc*)-dodecahydro-furo[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one = 16475
- 4-Methoxy-3-methyl-5-[(2*Z*,11*aS*)-3*at*,11*t*-epoxy-8*t*-(1*R*)-1-hydroxypropyl)-1*c*-methyl-(11*ar*,11*bc*)-dodecahydro-furo[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one-*N*-oxide = 16476
- 4-Methoxy-3-methyl-5-[(2*Z*,11*aS*)-3*at*,11*t*-epoxy-1*c*-methyl-(11*ar*,11*bc*)-dodecahydrofuro[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one = 18260
- 4-Methoxy-3-methyl-5-[(2*Z*,11*aS*)-8*t*-(1*R*)-1-hydroxypropyl)-1*c*-methyl-(11*ar*,11*bc*)-1,2,5,6,8,9,10,11,11*a*,11*b*-decahydro-furo[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one = 20305
- 4-Methoxy-3-methyl-5-[(2*Z*,11*aS*)-8*t*-(1*R*)-1-methoxypropyl)-1*c*-methyl-(11*ar*,11*bc*)-1,2,5,6,8,9,10,11,11*a*,11*b*-decahydrofuro[3,2-*c*]pyrido[1,2-*a*]azepin-2-ylidene]-5*H*-furan-2-one-*N*-oxide = 14094
- 5'-Methoxynobiletin = 9406
- 11 α -Methoxy-olean-12-ene-1 β ,3 β ,28-triol 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 11985
- 11 α -Methoxy-olean-12-ene-1 β ,3 β ,28-triol 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 11986
- 1 β -Methoxy-2 β ,3 α ,4 β ,5 α ,6 β -pentahydroxycyclohexane = 13047
- o*-Methoxy phenol = 9021
- 7-Methoxy-4-phenyl-2*H*-1-benzopyran-6-ol = 4608
- 2-(4-Methoxyphenyl)-1-nitroethane = 13259
- 1-(4'-Methoxyphenyl)-(1*R*,2*R*)-propan-1-ol 2-*O*- β -*D*-glucopyranoside = 1184
- [1-(4'-Methoxyphenyl)]-(1*S*,2*S*)-propan-1-ol 2-*O*- β -*D*-glucopyranoside = 1185
- 5'-Methoxypongapin = 14074
- 4-Methoxy-9-prenyl-2,6,10-trihydroxybenzophenone = 4338
- 1-Methoxy-4-(1-propenyl)benzene = 1186
- 2-Methoxy-4-propenyl phenol = 11421
- 5-Methoxypsoralen = 2309
- 8-Methoxypsoralen = 22774
- Methoxyquinol 4-*O*-[(5-*O*-*trans-p*-coumaroyl)- β -*D*-apiofuranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 8851
- 16 β -Methoxy-3 β -[(*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranosyl)oxy]pregna-5,16-dien-20-one = 20233
- 6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-16(17)-en-15-one = 13071
- (16*R*)-6 β -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one = 13070
- (16*R*)-6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one = 13067
- (16*S*)-6 α -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one = 13068
- (16*S*)-6 β -Methoxy-6,7-seco-6,19-epoxy-7,20-olide-*ent*-kaur-15-one = 13069
- (25*R*,26*R*)-26-Methoxyspirost-5-en-3 β -ol 3-*O*-{*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside} = 20068
- trans*-3-Methoxy-2,3',4,5'-tetrahydroxystilbene = 22434
- 2-Methoxy-3,4,6-trihydroxy- α' -chalconol- α,β -epoxide-4-*O*- β -*D*-glucopyranoside = 21632
- 3'-Methoxy-4',5,7-trihydroxyflavone = 3602
- 8 α -Methylbutyryloxy-1 α -hydroxy-3 α ,4 α -epoxy-5 α ,7 α *H*-10(14),11(13)-guaia-dien-12,6 α -olide = 7196
- Methylabrusgenate = 18582
- 2-Methyl-5-acetonyl-7-hydroxychromone = 3279
- Methyl 22 β -acetoxo-3,25-epoxy-3 α -hydroxy-urs-12-en-28-oate = 14208
- O*-Methylaknadinine = 9245
- Methyl allyl pentasulfide = 950
- Methylallyltetrasulfide = 951
- 6-Methylamino-5,9-dimethoxyoxoisoaporphine = 4691
- 3 α -(Methylamino)pregn-5-en-16-one = 9577
- (20*S*)-20-(*N*-Methylamino)-3 β -(tigloylamino)-5 α -pregna-2-en-16 α ,17 α -epoxy-4-one = 7198
- (20*S*)-20-(*N*-Methylamino)-3 β -(tigloylamino)-5 α -pregna-16 α ,17 α -epoxy-2 β ,4 β -di-*O*-acetate = 7177
- O*-Methylanolobine = 22818
- O*-Methylaromoline = 9597
- O*-Methylatheroline = 16339
- Methyl azelate = 6317
- 5-Methyl-1,3-benzenediol = 16169
- Methyl betulinate = 14158
- 3-Methylbutanoic acid = 11754
- 1-[(3-Methylbutanoyl)phloroglucinyll]- β -*D*-glucopyranoside = 13261
- (*E*)-2-Methyl-2-butenal = 21370
- trans*-2-Methyl-2-butenal = 21370
- (*E*)-2-Methylbut-2-en-1-al = 21370
- (*E*)-2-Methyl-2-butenic acid = 21371
- trans*-2-Methyl-2-butenic acid = 21371
- 2-Methyl-3-buten-2-ol β -*D*-glucopyranoside = 4227
- 12-*O*-(3-Methyl-2-butenoyl)-19-*O*-(3,4-dihydroxybenzoyl)-11-hydroxyabieta-8,11,13-triene = 17554
- rel*-10 β *H*-*trans*-12 ξ -(2-methylbut-2(*E*)-enoyl)-1 β -(isobutanoyl)-6 α ,13 ξ -di-hydroxycycloclerodan-4(20),8(18)-dien-7,15-dione-15,16-oxide = 2948
- rel*-10 β *H*-*trans*-12 ξ -(2-Methylbut-2(*E*)-enoyl)-1 β -(2-methylbutanoyl)-6 α ,13 ξ -dihydroxycycloclerodan-4(20),8(18)-dien-7,15-dione-15,16-oxide =

- 2952
- 12-(3-Methylbut-2-enyloxy)pregn-5-en-20-one 3-*O*-[β -cymaropyranosyl-(1 \rightarrow 4)- β -cymaropyranosyl-(1 \rightarrow 4)- β -thevetopyranosyl-(1 \rightarrow 4)-(6-*O*-sulfo- β -glucopyranoside)] = 7699
- 6-(3-Methyl-2-butenyl)-1,5-dihydroxyxanthone = 2989
- 2-(3-Methyl-2-butenyl)-3-*O*-(3-methyl-2-butenyl)-5-[2-(3-hydroxyphenyl)ethyl]-1,3-benzenediol = 8551
- 2-(2-Methylbutyryl)-phloroglucinol 1-*O*- β -*D*-glucopyranoside = 15063
- 20-*O*-(2-Methylbutyryl)tomentogenin = 6600
- 3-Methyl-9*H*-carbazole = 14216
- 3-Methylcarbazol-2-ol = 10478
- 2 α ,3 β -7-*O*-Methylcedrusin = 5582
- 24-Methylcholesta-5,22-dien-3 β -ol = 2596
- (24*S*)-Methylcholesta-5-en-3 β -ol = 3040
- 3-Methylchrysazin = 3615
- 3'-*O*-Methylconiferin = 14249
- 3'-Methyl crenatoside = 14261
- (*E*)-2-Methyl-crotonaldehyde = 21370
- α -Methylcrotonaldehyde = 21370
- Methyl-1-cyclohexen-1-yl-1,3,5,7,9,11,13-tetradecaheptaene = 13189
- (-)-*N*-Methylcytisine = 14279
- N*-Methyldaphnandrine = 9597
- Methyldeacetylasperuloside = 4717
- Methyl(2*Z*,8*Z*)-decadien-4,6-dienoate = 13603
- Methyl-*trans*-2-decene-4,6,8-trienoate = 4947
- Methyl-*cis*-2-decen-4,6,8-trienoate = 4946
- N*-Methyldendrobine = 14288
- Methyl-2 α ,15-diacetoxy-2,3-epoxy-2,3-seco-(1 α ,5 α ,6 β ,7 β)-aromadendran-3,10(14)-dien-13-oate = 17497
- 21 β -Methyl-20,22-dideoxy-25-hydroxymicrandilactone A = 12476
- Methyl-2,4-dihydroxy-benzoate = 14712
- Methyl 2,3-dihydroxy-2-(5-hydroxy-11-methyl-6-oxo-1,2,6,11-tetrahydrofuro[2,3-*c*]acridin-2-yl) propanoate = 18784
- (12*S*)-Methyl 6 α ,12-dihydroxy-4 α -methoxycarbonyl-18-norneo-clerod-13(14)-en-15,16-olide = 798
- 6-Methyl-2,5-dihydroxymethyl- γ -pyranone III = 9438
- Methyl-3 β ,22 α -dihydroxy-olean-12-ene-29-oate = 18582
- Methyl-3 β ,22 α -dihydroxy-urs-12-ene-30-oate = 18581
- (+)-1-Methyl-4-(5,9-dimethyl-1-methylene-deca-4,8-dienyl)cyclohexene = 2045
- Methyl eicos-11-enoate = 14336
- 3'-*O*-Methyl-ellagic acid 4-*O*- α -*L*-arabinofuranoside = 6620
- 4-*O*-Methylellagic acid 3'-(2'',3'-*di-O*-acetyl)-3'- α -rhamnoside = 14342
- 3'-*O*-Methyl-ellagic acid-4-*O*- β -*D*-xylopyranoside = 6619
- 3,4-Methylenedioxy-5-methoxy-1-(1-oxopropyl)benzene = 6479
- 25-Methylenecycloartanyl-*p*-hydroxy-*trans*-cinnamate = 17175
- 1,2-Methylenedioxy-4-allyl-benzene = 19121
- 6,7-Methylenedioxy-coumarin = 2048
- (7*R*,8*R*,7'*S*,8'*S*)-3,4-Methylenedioxy-3',4'-dimethoxy-7,7'-epoxylignan = 8039
- 3,4-Methylenedioxy-10-hydroxy aristololactam = 1693
- 3,4-Methylenedioxy-3'-methoxybibenzyl = 14375
- 5,6-Methylenedioxy-9-methoxy-7*H*-dibenzo(de,h)quinoli-7-one = 2344
- (6*aR*,12*aS*)-2,3-Methylenedioxy-9-methoxy-8-(3,3-dimethylallyl)-12-hydroxyrotenoid = 22279
- 3,4-Methylenedioxyphenanthrene-1-carboxylic acid = 5062
- N*-[10-(13,14-Methylenedioxyphenyl)-7(*E*),9(*Z*)-pentadienyl]-pyrrolidine = 16388
- (6*E*,8*E*,12*E*)-3-Methylene-(4*R*)-hydroxy-7,11-dimethyl-(10*R**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid = 17652
- (6*E*,8*E*,12*E*)-3-Methylene-(4*R*)-hydroxy-7,11-dimethyl-(10*S**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid oil = 17653
- 24-Methylene-lanosta-9(11)-en-3 β -ol = 766
- 24-Methylene-lanosta-9(11)-en-3-one = 767
- 4-Methylene-1-(1-methylethyl)bicyclo[3.1.0]hexane = 19099
- 3-Methylene-6-(1-methylethyl)cyclohexene = 17056
- (6*E*,8*E*,12*E*)-3-Methylene-4-oxo-7,11-dimethyl-(10*S**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid = 17650
- (6*E*,8*E*,12*E*)-3-Methylene-4-oxo-7,11-dimethyl-(10*R**,11*R**)-dichloro-13-bromo-trideca-6,8,12-trienoic acid = 17651
- 24-Methylene-3-oxo-lanost-8-en-21-oic acid = 7856
- Methyl *ent*-13,17-epoxy-16-hydroxykauran-19-oate = 3427
- Methyl (2*E*,6*E*,10*R*)-10,11-epoxy-3,7,11-trimethyl-2,6-dodecadien-oate = 11988
- 3'-*O*-Methyl eriodictyol = 9604
- 7-*O*-Methylesculetin = 11702
- 1-Methyl ether of 10,12,10"-trichloroisoplagiochin C = 2180
- 1-Methyl-3-ethylacrolein = 14662
- 4-(1-Methylethyl)benzoic acid = 4356
- 8-Methyleugenitol = 6167
- Methyl eugenol = 7523
- 22-*O*-Methyl-25(*S*)-furost-1 β ,2 β ,3 β ,4 β ,5 β ,22 ζ ,26 β -heptol-26-*O*- β -*D*-glucopyranoside = 22651
- 22-*O*-Methyl-25(*R*,*S*)-furost-1 β ,3 β ,4 β ,5 β ,22 ζ ,26 β -hexol-26-*O*- β -*D*-glucopyranoside = 22649
- 5-*O*-Methyl genistein 7-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 9555
- 22-*O*-Methyl-26-*O*- β -*D*-glycopyranosyl-25(*S*)-furost-5-en-1 β ,3 β ,22 ζ ,26 β -tetrol-3-*O*-[*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-galactopyranoside = 22650
- Methylheptyl-ketone = 15687
- N*-methyl-2-heptyl-4(1*H*)-quinolone = 19468
- N*-Methylhernandine = 15929
- N*-Methyl hernovine = 14640
- Methyl hexadecanoate = 14484
- Methyl 3'-Hydroxyaglafolin = 10677
- Methyl-*p*-hydroxycinnamate = 14254
- 2-Methyl-3,4-[2'-(1-hydroxy-1-methylethyl)-dihydrofuran]anthraquinone = 3135
- Methyl(24*Z*)-26-hydroxy-3-oxo-7,24-euphadienoate = 14520
- N*-Methyl-3 β -hydroxy-5 α -veratranine-6-one = 15613
- 1-*O*-Methyl-*myo*-inositol = 2556
- O*-Methylsine = 8832
- 24-Methyl lathosterol = 14237
- 5-*O*-Methyl licoricidin = 12795
- 23-*O*-Methyl malonyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 2212
- 3-*O*-Methyl malonyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 2213
- (3*R*,4*R*,6*R*)-4-[(2*R*,3*R*)-2-Methyl-3-(3-methyl-but-2-enyl)-oxiranyl]-1-oxaspiro[2,5]octan-6-ol = 5047

- (+)-4-Methyl-9-methylene-bicyclo[8.2.1]trideca-1(13),4-diene = 11791
 (4*S*,4*aS*,8*aS*)-8a-Methyl-5-methylene-4-(1-methylvinyl)-1,2,3,4,4*a*,5,6,8*a*-octahydro-naphthalene = 8951
 2-Methyl-5-(1-methylethenyl)-2-cyclohexen-1-one = 3237
 (1*α*,2*β*,5*α*)-2-Methyl-5-(1-methylethyl)cyclohexanol = 3236
 3-Methyl-6-(1-methylethyl)-2-cyclohexen-1-one = 17456
 (+)-(2*S*,7*R*,8*S*)-5-Methyl-8-(1-methylethyl)-9-oxa-tricyclo[6.2.2.0^{2,7}]dodeca-1(11),5-diene = 1260
 3'-*O*-Methyl-3,4-*O*,*O*-methylideneellagic acid-4'-*O*-*β*-*D*-glucopyranoside = 15880
 3-Methyl-5-[(2*Z*,3*aR*)-1*r*-methyl-8*t*-((2*S*)-4*c*-methyl-5-oxo-tetrahydrofuran-2*r*-yl)-(3*a**r*,10*a**t*,10*b**t*)-decahydro-2*H*-furo[3,2-*c*]pyrrolo[1,2-*a*]jzepin-2-yl]-5*H*-furan-2-one = 20296
 (2-Methyl-6-(4-methylphenyl)-1,5-heptadiene) = 2404
 (2-Methyl-6-(4-methylphenyl)-1,6-heptadiene) = 2405
N-Methyl nandigerine = 14483
 7-*O*-Methylnaringenin = 19174
 Methylnigakinone = 12334
 (-)-Methylnissolin = 14619
 Methyl octadecanoate = 14629
 Methyl oleate = 14630
 Methyl 3-oxo-22*α*-acetoxo-23-hydroxy-urs-12-ene-30-oate = 18579
 Methyl 3-oxo-22*α*-hydroxy-olean-12-ene-29-oate = 18580
 Methyl palmitate = 14484
 7-*O*-Methylpectolarigenin = 19211
 4-Methyl-4-penten-2-one = 11535
 (2*E*,4*E*,12*Z*)-*N*-(4-Methylpentyl)octadeca-2,4,12-trienamide = 17473
 2-Methylphenol = 4233
 3-Methylphenol = 4232
 4-Methylphenol = 4234
 2-Methyl-3-phytyl-1,4-naphthoquinone = 22562
 4'-*O*-Methyl piceid = 5206
 6-Methylpinocembrin = 20394
 2-Methylpropanoic acid = 11290
 2-Methyl-1-propanol = 11268
 2-Methyl-6-(prop-2-enyl)piperidine = 17390
 Methyl 2-propenyl trisulfide = 952
 3-(1-Methyl-2-pyrrolidinyl)pyridine = 15528
 3-*O*-Methylquercetin = 18376
 3'-*O*-Methylquercetin 3-*O*-*α*-*L*-rhamnopyranosyl(1→6)-2''-*O*-acetyl-*β*-*D*-glucopyranoside = 466
 Methyl rosmarinat = 18925
E-3-Methylsulfinyloxy-2-propenyl *sec*-butyl disulfide = 7847
Z-3-Methylsulfinyloxy-2-propenyl *sec*-butyl disulfide = 7846
E-3-Methylsulfinyl-2-propenyl *sec*-butyl disulfide = 7845
 (*E*)-3-(Methylsulfonyl)-propenoic acid (*E*)-2-[4-(3,7-dimethyl-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide = 10139
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-2-[4-(3,7-dimethyl-8-oxo-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide = 10138
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-3-methoxyphenethyl amide = 14716
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide = 8310
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-2-[4-(8-hydroxy-3,7-di-
 methyl-2,6-octadienyloxy)-phenyl]-2-hydroxyethyl amide = 10140
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*E*)-3-hydroxy-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide = 19170
 (*E*)-3-(Methylsulfonyl)-propenoic acid (2*E*,6*Z*)-3-hydroxy-4-(8-hydroxy-3,7-dimethyl-2,6-octadienyloxy)-phenethyl amide = 19171
 (*E*)-3-(Methylsulfonyl)-propenoic acid 3-hydroxy-4-(3-methyl-2-butenyloxy)-phenethyl amide = 19169
 (*E*)-3-(Methylsulfonyl)-propenoic acid 4-(3-methyl-2-butenyloxy)-3-methoxyphenethyl amide = 14715
N-Methyltaxol = 14651
 Methyl tetradecanoate = 14610
 3-Methyl-4-tetradecanoyloxy-2-butenenitrile = 21042
 2-Methyl-3-thiapentane = 7454
N-[*N'*-(*E*)-(3-Methylthio-2-propenyl)-4-aminobu-tyl]-(*E*)-3-methylthiopropenamide = 736
N-[*N'*-(*E*)-(3-Methylthio-2-propenyl)-4-aminobutyl] phenylacetamide = 740
 5-Methyl thymol ether = 11626
N-Methyl-1,4,5-trihydroxy-3,6-dimethoxyacridine-9-one = 1954
 (-)-5-Methyl-3-(1',2',2'-trimethylcyclopentyl) phenol = 9427
N-Methyl-*L*-tryptophan = 13
 (1-Methylundecyl)benzene = 17104
N-methyl-5*α*-veratranine-6-oxo-3*β*-*O*-*β*-*D*-glucoside = 15614
 Methylwarifteine = 3748
 7-*O*-Methylwogonin = 10026
 Micromarin B = 17824
 Micropinic acid = 11600
 Mimoside = 14869
 Minorine = 22489
 Minumicroline = 14874
 Mitrinermine = 18826
 Miyoshianine A = 13225
 Miyoshianine B = 13229
 Mogro-3-*O*-*β*-*D*-glucopyranoside-24-*O* {[*β*-*D*-glucopyranosyl (2→1)]-[*β*-*D*-glucopyranosyl(6→1)]-*β*-*D*-glucopyranoside} = 9012
 Mogrol 3-*O*-*β*-glucopyranosyl-26-*O*-*α*-rhamnopyranosyl(1→2)-*O*-*β*-glucopyranoside = 12218
 Mollis lactone = 14898
 Momordin IIb = 9588
 Monardein = 14914
 Mono(2,2-dimethylhydrazide) butanedioic acid = 1064
 Monomelittoside = 4626
 7''-Monomethylhinoliflavone = 11353
 Montanin C = 524
 Moracenin A = 12386
 Moracenin B = 12385
 Moranoline = 5198
 Morinobufagin = 2715
 Morphine monomethyl ether = 3885
 Morusinol = 16445
 Moupinamide = 7788
 3-MQ = 18376
 Mubenin B = 6755
 Mukoenine B = 3790

Mukurosigenin = 9260
 Mulberrochromene = 14995
 Multifidin = 18790
 Murraxocin = 15100
 Murrayazoline = 13397
 Musizin = 15489
 Mutumol = 17492
 Myoinositol = 11085
 Myo-inositol hexaphosphate = 17256
 Myricardiol = 15154
 Myricetin-3-glucoside = 11551
 Myricetin-3-*O*-methyl ether = 1339
 Myricetin-5-methyl ether = 14609
 Myricetin-4'-*O*-methyl ether-3-*O*- α -*L*-rhamnopyranoside = 13628
 Myricetin 3-*O*-(6"-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside = 15185
 Myricetol = 15170
 Myricitrin = 15184
 Myristic alcohol = 21041
 Myrkolal = 15166

N

Nagarine = 2741
 Nandigerine = 9451
 (+)-Nantenine = 14332
 Napellonine = 2742
 1,4-Naphthohydroquinone-1,4-di-*O*- β -*D*-glucopyranoside = 19033
 Narciclasine = 13239
 Narcipoetine = 9612
 (2*S*)-Naringenin = 15279
 NDGA = 15741
 Nehipetol = 4380
 Neoaristolactone = 22422
 Neocerotic acid = 16823
 Neochamaejasmin A = 15361
 Neofinaconitine = 5009
 Neoglycyrol = 8839
 Neohecogenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside = 21001
 Neohecogenin-3-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 4)- β -*D*-galactopyranoside = 21000
 13(18)-Neohopene = 9642
 Neojusticin A = 11980
 Neojusticin B = 11979
 Neolinderalactone = 12868
 Neoline = 2738
 Neorautenone = 15462
 Neosamogenin = 13569
 Neotanshinone A = 4632
 Neotanshinone B = 4633
 Neotanshinone C = 4634
 Nepitrin = 7557
 Neral = 3762
 Neriifolin = 15494
 Neriifoliol = 9635

Neriine = 3968
 (+)-Nerolidol = 15499
 3 α -Nervogenoyloxytropene = 13787
 Nevadensin = 13264
 Niacin = 15526
 Nicocitin = 5520
 7-(Nicotinoyloxy)-*O*⁵-furanoyl-*O*⁵-deacetyl-7-deoxo-evonine = 10907
 Nigakihemiacetal B = 15454
 Nigakilactone = 15546
 Nigricin 4'-*O*- β -*D*-glucoside = 8350
 Ningposide C = 415
 Nivalenone = 15633
 6,10-Nonacosanediol = 15663
 Nonadecane = 15671
 Nonadecylic acid = 15672
 Nonane = 15683
 Nonyl alcohol = 15686
 Nonylaldehyde = 15681
 4-Nonylphenol = 15701
 18-Nor-4(19),8,11,13-abietatetraene = 15736
 Noranhydroicaritin = 11588
 Noraporphine = 16339
 Norarmepavine = 15713
 (+)-Norboldine = 12573
 29-Norcycloartanyl acetate = 15730
 Nordihydrocapsaicin = 15740
 Noreugenin-7-*O*- β -*D*-glucoside = 20263
C-Nor-*D*-homosteroid alkaloid = 17380
 (+)-Norisocorydine = 15763
 19-Nor-*ent*-kaurane-4 α ,16 β ,17-triol = 1326
 Norlobelamine = 11506
 28-Nor-lup-12,17-dien-3 β ,16 α -diol, = 12243
 28-Nor-lup-12,17-dien-3 β -ol-16-one = 12245
 30-Normethyl lupane-20-one = 634
 30-Normethyl olean-3-on-30 β -ol = 635
 (*S*)-Nornantenine = 15779
O-Normuciferine = 14148
 Noroxylin = 2102
 (-)-Norstephalagine = 15797
 Nortropanoline = 3010
 (-)-Norushinsunine = 14827
 Norwedelolactone = 5101
 Notoginsenoside B₁ = 19233
 Nubiletin = 15635
 Nudaarine = 1099
 Nuezhenide = 15873
 Nyasol = 9546

O

Obacunonic acid = 15883
 Obtusifolin-2-*O*- β -*D*-glucoside = 8696
 Obtusilic acid = 4843
 α -Ocimene = 15925

- Ocoteine = 21241
 2,10,12,6',7',8',10',14'-Octachloroisoplagiochin C = 2186
 Octacosanic acid = 14944
 Octacosyl ferulate = 3852
 9,11-Octadecadienoic acid = 11503
cis-9,*cis*-12-Octadecadienoic acid = 12891
 1-*O*-(9*Z*,12*Z*-Octadecadienoyl) glycerol = 8814
 Octadecane = 15948
 Octadecanoic acid = 20280
 Octadecanoic acid-2,3-dihydroxypropyl ester = 15951
 Octadecanyl 3-(4-hydroxy-3-methoxy-phenyl)-acrylate ester = 15954
 (*Z,Z,Z*)-9,12,15-Octadecatrienoic acid = 12893
 (*Z,Z,Z*)-9,12,15-Octadecatrienoic acid methyl ester = 14555
 (-)-*Z*-9-Octadecene-4-olide = 14842
trans-9-Octadecenoic acid = 6731
 10-Octadecenoic acid = 11574
 (-)-1,2,3,4,4*a*,5,6,7-Octahydro-4*a*,8-dimethyl-2-(1-methylethyl)-naphthalen-2-ol = 7510
 (+)-(2*R*,4*aS*,8*aR*)-1,2,3,4,4*a*,5,6,8*a*-Octahydro-4*a*,8-dimethyl-2-(1-methylethyl)-2-naphthalenol = 7509
 (+)-(1*S*,3*aR*,7*S*,7*aS*)-2,3,3*a*,4,5,6,7,7*a*-Octahydro-3*a*-hydroxyl-7,7*a*-dimethyl-1-(2-methylpropanonyl)-1*H*-indene = 5559
 7,7',8,8',11,11',12,12'-Octahydrolycopene = 17263
 (4*a*,5*β*,11*β*)-1,2,3,4,4*a*,5,6,11*b*-Octahydro-4,4,7,11*b*-tetramethyl-phenanthro[3,2-*b*]furan-4*a*,5-diol-5-benzoate = 11779
 3,5,6,7,8,3',4',5'-Octamethoxyflavone = 7696
 Octanoic acid = 3140
 Octanoic acid methyl ester = 14215
 1-Octanol = 15977
 (3*R*)-1-Octan-3-yl-(6-*O*-sulfonyl)- β -*D*-glucopyranoside = 2084
 (6*R*)-7-Octene-1,6-diol 6-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranoside = 6665
 (6*R*)-7-Octene-1,6-diol 6-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)-*O*- β -*D*-glucopyranoside = 6666
 1-Octen-3-ol = 13608
 (*E*)-2-Octen-1-ol = 11532
 (3*R*)-1-Octen-3-ol-3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 1952
 (3*R*)-1-Octen-3-ol-3-*O*- β -*D*-xylopyranosyl-(1" \rightarrow 6')-*O*-[β -*D*-glucopyranosyl-(1" \rightarrow 2')]-*O*- β -*D*-glucopyranoside = 6664
 1-Octen-3-yl *O*- β -apiofuranosyl-(1 \rightarrow 6)-*O*-[β -glucopyranosyl-(1 \rightarrow 2)]- β -glucopyranoside = 13075
 Octyl 6-*O*- α -*L*-arabinopyranosyl- β -*D*-glucopyranoside = 18793
 17 β -Oestradiol = 7384
 Oleana-11,13(18)-dien-29-oic acid 3 β ,21*a*-di-*O*- β -*D*-glucuronopyranoside = 8856
 Olean-11,13(18)-diene-3 β ,22 β -diol = 20250
 Olean-11,13(18)-diene-3 β ,16 β ,23,28,30-pentol = 19136
 Oleandrigenin = 400
 Oleandrigenin 3-*O*-*L*-cymaroside = 2190
 Oleandrigenin-3-*O*-[*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)]- α -*L*-rhamnopyranoside = 22652
 Olean-12-en-23-al-2 β ,3 β -dihydroxy-30-methoxycarbonyl-28-oic acid = 547
 Olean-12-en-23-al-2 β ,3 β ,11*a*-trihydroxy-30-methoxycarbonyl-28-oic acid = 548
 Olean-12-en-3 β ,27-diol = 3470
 Olean-12-en-3,28-diol = 7338
 Olean-12-ene-23*a*,28 β -dioic acid-3 β -,16*a*-dihydroxy-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 6)-[β -*D*-glucopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranoside = 19668
 12-Oleanene-3,15,16,22,28-pentol = 2151
 Olean-12-ene-1 β ,3 β ,11*a*,28-tetraol 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 11983
 Olean-12-ene-1 β ,3 β ,11*a*,28-tetraol 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 11984
 12-Oleanene-3,22,28-triol = 10096
 Oleanolic acid-3-*O*- α -*L*-arabinopyranosyl-28-*O*- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 1577
 Oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 9357
 Oleanolic acid 3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranosyl-28- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 1601
 Oleanolic acid 3-*O*-glucuronide = 2973
 Oleanolic acid 3-*O*-[3'-*O*-(2"-hydroxy-1"-carboxyethoxycarboxypropyl)]- β -*D*-glucopyranoside = 544
 Oleanolic acid 3-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)- α -*L*-arabinopyranoside = 6756
 Oleanolic acid 3-*O*-{ α -*L*-rhamnopyranosyl(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosyl(1 \rightarrow 3)}- β -*D*-xylopyranoside = 7634
 Oleanonic acid = 16402
 Oleanoside A = 1610
 Oleanoside C = 1609
 Oleanoside E = 1608
cis-Oleic acid = 16066
 Oleoeuropeine = 16080
 Oleovitamin A = 18656
 Oleyl alcohol = 15957
 6-*C*- β -*D*-Oliopyranosyl-4'-*O*- β -*D*-glucopyranosylapigenin = 18676
 Olitorin = 16084
 Olmelin = 2384
 8(26),14(27)-Onoceradiene = 16110
 Ononin = 7885
 Ononoside = 7885
 Ophiopogenin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2) [β -*D*-xylopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranoside = 16135
 Ophiopogenin-3-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2) [β -*D*-xylopyranosyl(1 \rightarrow 3)] [β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranoside = 16142
 Opuntioside I = 16160
 Oraposide = 4225
 Orobanchoside = 4225=16161
 Oroselone = 12395
 Oroxin A = 2103
 Oroxylin = 16216
 Oryzadione = 7154
 Oryzanol A = 4475
 Osage orange = 14971
 Osthonon = 16260
 Ouabain = 20403
 7(β)-Oxa-bicyclo-[4,1,0]-hept-3-ene-3-carboxylic acid-5(β)-hydroxy = 6547

Oxacyclohexadecan-2-one = 7672
β-*N*-Oxalyl-*L*-*α,β*-diaminopropionic acid = 1058
 Oxedrine = 20552
 (24*Z*)-3-Oxo-14(13→12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid = 22167
 Oxoagarospirol = 2111
ent-16-Oxobeyeran-19-al = 3428
 13-Oxo-7,9-bis-deacetylbaecatin VI = 20844
 2-Oxobutanedioic acid = 16284
 1-(1-Oxo-2*E*,4*E*-decadienyl)pyrrolidine = 19371
 (24*Z*)-3-Oxo-11*R*,12*S*-diacetoxylanosta-8,24-dien-26-oic acid = 22163
 (22*R*,24*S*,25*R*,26*R*)-1-Oxo-22,26;24,25-diepoxy-3*β*,17*α*,26-trihydroxyergost-5-ene 3-*O*-sulfate = 3648
 2-[(2-Oxo-1,2-dihydro-quinoline-4-carbonyl)-amino]-succinic acid 4-*n*-butyl ester = 20329
 2-[(2-Oxo-1,2-dihydro-quinoline-4-carbonyl)-amino]-succinic acid 4-methyl ester = 20330
 (1*R*,5*R*,6*S*,9*R*)-3-Oxo-6,13-dihydroxy-5,6-dihydro-*β*-ionol = 1337
 3-Oxo-2*α*,23-dihydroxyolean-12-en-28-oic acid = 4481
 3-Oxo-*ent*-13epi-8(13)-epoxy-15-chloro-14-hydroxyabdanone = 684
 16-Oxo-21-episerratenediol = 6122
 (22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3*α*,5*α*-cycloergostane-6*β*,17*α*,24,25,26-pentaol 26-*O*-*β*-Dglucopyranoside = 3641
 (22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3*α*,5*α*-cycloergostane-6*β*,17*α*,24,25,26-pentaol 26-*O*-*β*-Dglucopyranoside 24-*O*-methyl ether = 3642
 (22*R*,24*R*,25*R*,26*S*)-1-Oxo-22,26-epoxy-3*α*,5*α*-cycloergostane-6*β*,17*α*,24,25,26-pentaol 26-*O*-*β*-D-glucopyranoside 6-*O*-methyl ether = 3643
 (22*R*,24*R*,25*R*,26*Φ*)-1-oxo-22,26-epoxy-24-*O*-methyl-3*β*,17*α*,24,25,26-pentahydroxyergost-5-ene 3-*O*-sulfate = 3647
 3-Oxo-1(10),4,11-guaiatrien-14-al = 16069
 19-Oxo-humantenmine = 16338
 21-Oxo-23*ξ*-hydroxy-21,23-dihydroveprisone = 11769
 23-Oxo-21*ξ*-hydroxy-21,23-dihydroveprisone = 22381
 22-Oxo-23-hydroxy-iridal-3,16-di-*β*-D-glucopyranoside = 11135
 22-Oxo-23-hydroxyiridal-3-[*β*-D-glucopyranosyl-(1→6)-*β*-D-glucopyranoside]-16-*β*-D-glucopyranoside = 11134
 22-Oxo-23-hydroxy-isoiridal-3,16-di-*β*-D-glucopyranoside = 11138
 3-Oxo-12*β*-hydroxyolanosta-7,9(11),24(*Z*)-trien-26-oic acid = 22165
 11-Oxo-3*β*-hydroxy-olean-12-ene = 1109
 (6*R*,9*R*)-3-Oxo-*α*-ionyl-9-*O*-*α*-rhamnopyranosyl-(1"→6")-*β*-glucopyranoside = 7288
 (6*R*,9*R*)-3-Oxo-*α*-ionyl-9-*O*-*β*-xylopyranosyl-(1"→6")-*β*-glucopyranoside = 7287
 22-Oxo-isoiridal-3,16,23-tri-*β*-D-glucopyranoside = 11136
 3-Oxolanosta-8,24-dien-26-oic acid = 1467
 3-Oxolanosta-9(11),24-dien-26-oic acid = 3861
 3-Oxolanosta-8,24-dien-21-oic acid 21-*O*-*β*-D-xylopyranoside = 7868
 3-Oxolanosta-8,24(31)-dien-21-oic acid 21-*O*-*β*-D-xylopyranoside = 7869
 3-Oxolanosta-7,9(11),24-trien-15*α*,21-diol = 17389
 1-Oxo-12-methoxy-7,20-epoxyabieta-8,11,13-trienestructureforsalvibractone = 19208
 1-[1-Oxo-7(3,4-methylenedioxyphenyl)-2*E*,6*E*-heptadienyl]pyrrolidine = 19378
 1-[1-Oxo-9(3,4-methylenedioxyphenyl)-8*E*-nonenyl]piperidine = 17469
 1-[1-Oxo-5(3,4-methylenedioxyphenyl)-2*E*-pentenyl]piperidine = 17439
 1-[1-Oxo-5(3,4-methylene dioxypheyl)-2*E*-pentenyl]pyrrolidine = 17438
 2-Oxopalmitic acid = 16345

3-Oxopanaxydol = 8452
 4-Oxopentanoic acid = 12735
 5-Oxoproline = 18266
 1-Oxo-1,2,3,4-tetrahydro-*β*-carboline = 21076
 12-Oxotigogenin = 9253
 Oxoushinsunine = 12917
 Oxyyanin A = 3611
 Oxy{bis[5"(4',5,7"-trihydroxy-3',3",4"-trimethoxy-7-*O*-*α*:6-*β*-flavone-chalcone)]} = 18846
 Oxycanthine = 16439
 Oxycoccyanin = 16901
 17-Oxycorticosterone = 9937
 5,5'-Oxydimethylene-bis-(2-furaldehyde) = 2452
 11,16-Oxy-18,20-dinor-1,3,5(10),6,8,11,15-abietaheptaene-13,14-dione = 11730
 11,16-Oxy-18,20-dinor-1,3,5(10),6,8,11-abietahexaene-13,14-dione = 5654
 (*R*)-(+)-Oxypeucedanin hydrate = 2041
 Oxyresveratrol = 4337

P

6*β*,7*α*,9*α*,11*α*-Pachycarpine = 20133
 Paclitaxel = 20811
 Paederosidic acid methyl ester = 16515
 Paeonidin = 16900
 Paeonin = 16905
 Pallason A = 11179
 Palmatoside D = 21398
 Palmitic acid = 9486
 (2*S*)-1-*O*-Palmitoyl glycerol = 14931
 6'-*O*-Palmityl-sitosteryl-3-*O*-*β*-D-glucoside = 19997
 3(15)-Panasinsanene = 16592
 10-Panasinsanene = 16591
 Pancratine = 9187
 Panicolin = 20004
 Paniculol = 16614
 Papaveraldine = 22745
 Patrinia-glycoside B-II = 18709
 Patulitrin = 16728
 Pd-Ia = 17762
 Pd-II = 17763
 Pedatisectine D = 14780
 Pedatisectine E = 14752
 Pelargonic acid = 15684
 Pellitorine = 11269
 Pennogenin-3-*O*-*α*-*L*-rhamnopyranosyl(1→4)-*α*-*L*-rhamnopyranosyl(1→4)-[*α*-*L*-rhamnopyranosyl(1→2)]-*β*-D-glucopyranoside = 16815
 5*α*,7*β*,9*α*,10*β*,13*α*-Pentaacetoxy-20(benzoyloxy)-2*α*,4*α*-dihydroxytax-11-ene = 20821
 5*α*,6,11*α*,14*β*,17(*R*)-Pentaacetoxy-3*β*-benzoyloxy-15*β*-hydroxyseget-8(12)-en-9-one = 19656
 5*α*,7*β*,9*α*,10*β*,13*α*-Pentaacetoxy-2*α*,20-dihydroxytax-11-ene = 20825
 2*α*,7*β*,9*α*,10*β*,13*α*-Pentaacetoxy-11*β*-hydroxy-5*α*-(3'-*N,N*-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),12-diene = 20863
 5*α*,7*β*,9*α*,13*α*,20-Pentaacetoxy-2*α*,10*β*,15-trihydroxy-11(15→1)-abeo-taxene

- = 20834
- 1,4,3',4',6'-Penta-*O*-acetyl-6-*O*-*p*-coumaroylsucrose = 18004
- 2,7,9,10,13-Pentaacetyl-4(20),12-taxadiene-2,5,7,9,10,11,13-heptol = 20748
- 2,10,12,6',10'-Pentachloroisoplagiochin C = 2184
- 10,12,6',10',14'-Pentachloroisoplagiochin C = 2183
- N*-Pentacosyl-2-carboxy-benzoyl amide = 18292
- Pentadecane = 16830
- Pentadecanoic acid methyl ester = 14655
- 6-(8'*Z*-Pentadecenyl)-1,2,4-trihydroxybenzene-1-*O*-acetate = 1651
- Pentadecylic acid = 16831
- 6-Pentadecyl-1,2,4-trihydroxybenzene-1-*O*-acetate = 1650
- 1,3-Pentadiynylbenzene = 15724
- 2,3',4,4',6-Pentahydroxy benzophenone = 13296
- 5,5'',7'',7''-Pentahydroxy 4',4''-biflavonyl ether = 12989
- {5,7,5',4''',5''''-Pentahydroxy-6,8-bis-(γ,γ -dimethylallyl)-[6''''',6''''-dimethyl-4''''',5''''-dihydropyrano-(2''''',3''''':4',3'')]}-coumaronochromone = 7890
- 2 β ,3 β ,11 β ,14 β ,20-Pentahydroxy-cholest-7-en-6,22-dione = 16291
- 2 β ,3 β ,14 α ,20,25-Pentahydroxy-cholest-7-en-6,22-dione = 16350
- 3 β ,6 α ,16 α ,20(*S*),27-Pentahydroxydammar-24(*Z*)-ene = 21890
- 1 β ,3 β ,12 β ,20(*S*),26-Pentahydroxy-dammer-24(25)-en-20(*S*)-*O*- β -*D*-glucopyranoside = 9096
- 1 β ,3 β ,12 β ,20(*S*),26-Pentahydroxy-dammer-24(25)-en-20(*S*)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-gluco-pyranoside = 9094
- 1 β ,3 β ,12 β ,20(*S*),26-Pentahydroxy-dammer-24(25)-en-3-*O*- β -*D*-glucopyranosyl-20(*S*)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 9097
- rel*-(7''*E*)-(7 α ,8 β ,7' α ,8' β)-3,4,9,9',9''-pentahydroxy-3',7:3'',7'-diepoxy-8,4':8',4''-bisoxysesqueneolign-7''-ene = 11212
- rel*-(7''*E*)-(7 α ,8 β ,7' α ,8' β)-3,4,9,9',9''-pentahydroxy-4',7:3'',7'-diepoxy-8,3':8',4''-bisoxysesqueneolign-7''-ene = 11214
- rel*-(7''*E*)-(7 α ,8 β ,7' β ,8' α)-3,4,9,9',9''-pentahydroxy-3',7:3'',7'-diepoxy-8,4':8',4''-bisoxysesqueneolign-7''-ene = 11213
- rel*-(7''*E*)-(7 α ,8 β ,7' β ,8' α)-3,4,9,9',9''-pentahydroxy-4',7:3'',7'-diepoxy-8,3':8',4''-bisoxysesqueneolign-7''-ene = 11215
- 3,5,6,7,8-Pentahydroxy flavone = 16859
- 3,5,7,2',4'-Pentahydroxyflavone = 14971
- 5,6,7,3',4'-Pentahydroxyflavone = 10351
- 5,7,3',4',5'-Pentahydroxyflavone-6-*C*-glucoside = 11198
- 3,5,7,8,4'-Pentahydroxyflavone-7-*O*- β -*D*-glucuronopyranoside = 14872
- 3,5,7,8,4'-Pentahydroxyflavone-8-*O*- β -*D*-2''-*O*-(2-methylbutanoyl) glucuronide = 14873
- 3,5,7,3',4'-Pentahydroxy-5'-isoprenylflavone = 22241
- 3,6,7,3',4'-Pentahydroxy-2'-isoprenylflavone = 15471
- (24*R*)-2,12 α ,21,24,25-Pentahydroxylanosta-1,8-dien-3-one = 20441
- (24*R*)-3 β ,12 α ,21,24,25-Pentahydroxylanost-8-en-2-one = 20442
- 3,5,6,7,8-Pentahydroxy-4'-methoxy flavone = 16852
- 1 α ,3 β ,16 α ,24 ζ ,31-Pentahydroxy-24 ζ -methylcycloartan-28-oic = 4541
- 1 α ,3 β ,16 β ,24 ζ ,31-Pentahydroxy-24 ζ -methylcycloartan-28-oic acid = 4540
- 3 β ,16 β ,23,28,30-Pentahydroxyoleana-11,13,(18)-diene-3 β -*D*-glucopyranosyl-(1 \rightarrow 6)-[α -*L*-rhamno-pyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside = 19156
- 3 β ,16 α ,23,28,30-Pentahydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside = 19151
- 3 β ,16 α ,23,28,29-Pentahydroxy-11,13(18)-oleanediene-3 β -yl β -*D*-glucopyranosyl-(1 \rightarrow 2)-[4-*O*-sulfo- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside = 19249
- 1 β ,1 β ,3 β ,4 β ,5 β -Pentahydroxy-spirost-25(27)-ene-5-*O*- β -*D*-glucopyranoside = 1902
- 2',4',3'',2''',4''-Pentahydroxy-4-*O*-4''-tetrahydrobichalcone = 12934
- 4 β ,9 α ,12 β ,13 α ,20-Pentahydroxy-1,6-tiglidien-3-one = 17181
- 1 α ,2 α ,3 β ,19 α ,23-Pentahydroxyurs-12-en-28-oic acid = 8129
- 5,6,7,3',4'-Pentamethoxyflavone = 19929
- 5,6,7,8,4'-Pentamethoxyflavone = 20670
- 5,7,8,3',4'-Pentamethoxyflavone = 11716
- Pentandrin = 22358
- Pentandrin glucoside = 22359
- Pentanedioic acid = 8784
- 1,2,3,4-Pentanepentol = 645
- Pentyl butanoate = 1104
- Pentyl ethanoate = 1103
- Peonidin-3,5-diglucoside = 16905
- Peonidin 3-*O*-(4''-*O*-sinapoyl gentiobioside) = 836
- Perconval = 4013
- Perforatin A = 14125
- Pericalline = 20578
- Pericarsaponin Pk = 9275
- Periforoside 3-*O*-(2,6-dideoxy-4-*O*- β -*D*-glucopyranosidyl-3-*O*-methyl- β -*D*-ribo-hexopyranoside) = 16924
- Perilla alcohol = 16935
- Perillylaldehyde = 16930
- Periplocoside = 16943
- Peroxycostunolide = 22400
- Persicanidine A = 9681
- PG-3 = 14080
- PGE₁ = 17954
- Phellandrene = 17055
- Phellizide = 17078
- Phenethyl 1-*O*- β -*D*-apiofuranosyl (1 \rightarrow 2)- β -*D*-glucopyranoside = 19432
- Phenethyl caffeate = 2890
- Phenethyl α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 17087
- Phenol-2-carboxylic acid = 19187
- Phenylacetone = 17129
- N*-[*N*-(Phenylacetyl)-4-aminobutyl]phenylacetamide = 737
- 3 β -(6''-Phenylacetyloxyb-*D*-glucopyranosyloxy)-8 β -(*p*-hydroxyphenylacetyloxy)-guaia-4(15),10(14),11(13)-trien-1 α ,5 α ,6 β ,7 α H-12,6-olide = 11803
- 3-Phenylacrylic acid = 3695
- Phenylallyl acetate = 3726
- 4-Phenylbutan-2-one = 2274
- 2-Phenylchromone = 7819
- Phenylethanone = 115
- β -Phenylethyl alcohol = 2284
- Phenylethyl alcohol [5-*O*-*p*-hydroxybenzoyl- β -*D*-apiofuranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranoside = 2086
- Phenylethylene = 20430
- 2-Phenylethyl glucosinolate = 8599
- 3-[(1-Phenyl)ethylidene]amino-2-hydroxy-propyl α -(benzoyl amino)benzene-propanoate = 21575
- Phenylformic acid = 2224
- 1-Phenyl-1,3-hexadiyne = 15354

- Phenylmethanal = 2222
 Phenylmethyl glucopyranoside = 2276
N-(Phenylpropanoyl)-*D*³-2-pyrrolidone = 19368
 2-Phenyl-2-propen-1-ol = 3696
 Phlegmanol C = 19770
 Phloracetophenone = 22778
 2-*O*-Phloro-6,6'-bieckol = 21836
 Phorbol-12-tiglate-13-caprate = 17194
 Phosphocreatine = 4222
 α -Photosantalol A = 10689
 α -Photosantalol B diastereoisomer = 10690
 1,3-Phthalandione = 17204
 Phyllanthin = 20805
 Phyllanthoside = 20805
 Physcion-8-*O*- β -*D*-glucopyranoside = 1362
 Physeteric acid = 21046
 Physostigmine = 7381
 (*E*)-Phytol = 17265
 Phytolaccasaponin B = 7374
 Phytolaccasaponin G = 17269
 Phytolaccinic acid = 17266
 Phytolaccoside D = 7370
 Phytolaccoside E = 7368
 Piceatannol 3-*O*- β -*D*-glucopyranoside = 1951
 Piceatannol 3'-*O*- β -*D*-glucopyranoside = 21158
 Piceoside = 17287
 Picrasidine C = 3160
 Picrasidine S = 12333
 Picrasin A = 15552
 Picrasin B = 15554
 Picrasin C = 15555
 Picropodophyllotoxin = 17337
 Pictogenin (3 β ,6 β ,16 α ,23-tetrahydroxyolean-12-ene-28-oic acid) 3-*O*- α -*L*-arabinopyranoside = 17351
ent-Pimara-8(14),15-dien-19-oic acid = 17371
 2-Pinen-4-ol = 22398
 2-Pinen-4-one = 22399
 (-)-2(10)-Pinen-3-one = 17402
 Pingbeimine A = 17384
 Pingpeisaponin = 17383
 (*S*)-Pinoembrin = 17403
 Pinosesinol-4,4'-di-*O*- β -*D*-glucoside = 17412
 Pinosolide acid = 17423
 Pinusolic acid = 17423
dl-Pipicolinic acid = 17425
 Piperamide A 7:3(2*E*,4*E*,6*E*) = 17449
 Piperamide A 9:1(8*E*) = 17469
 Piperamide B 9:3(2*E*,4*E*,8*E*) = 18657
 Piperamide-C 5:2(*E*,*E*) = 16387
 Piperamide C 5:1(2*E*) = 17438
 Piperamide C 7:2(2*E*,6*E*) = 19378
 Piperitenone oxide = 18954
 Piperonaline = 16384
 Piperonylaldehyde = 17470
 Piperylene = 16387
 Piptanthine = 16206
 Plantagoside A = 17507
 Plantamajoside = 18219
 Platynecine *N*-oxide 2*S*-hydroxy-2*S*-(1*S*-hydroxyethyl)-4-methyl-pentanoyl ester = 18666
 Podocarpene = 12176
 Polargonin = 16781
 Polyanthin = 17620
 Polydatin = 17283
 Polystachoside = 2039
 Pomonic acid = 16358
 Ponciretin = 11691
 Poncitrin = 5134
 Pongol methyl ether = 3334
 Pontigenin = 18748
 Populnin = 12062
 Porphyrone = 16627
 Portulaxanthin I = 17734
 Potengriffoside A = 21392
 PQ-1 = 16586
 PQ-3 = 8452
 Praeruptorin III = 1239
 Prangeferol = 15645
 Prangenin = 16447
 Prangenin hydrate = 9420
 Pratol = 7883
 Pregn-4-ene-3,20-dione = 17901
 Pregn-5-ene-3,17,20-triol 20-*O*-[2-*O*-acetyl- β -*D*-digitalopyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-*O*-methyl- α -*D*-gluco-2-heptulopyranosyl-(2 \rightarrow 4)-dioxy-(1 \rightarrow 3)- β -*D*-canaropyranoside] = 16948
 8-Prenylnaringenin = 11248
 Proanthocyanidin B₅ = 17888
 Prochamazulene = 13605
 Procyanidin B₂ = 17869
 Progoitrin = 9863
 Propanal = 17930
 Propanecarbaldehyde = 2787
 Propanedioic acid = 13439
 Propanoic acid = 17931
trans-1-Propene-1,2,3-tricarboxylic acid = 553
 Propenoic acid = 578
cis-4-(1-Propenyl)anisole = 1183
 2-[*E*]-Propenyl-7-methoxy-8-*C*- β -*D*-[2'-(*E*)-*p*-coumaroyl]-glucopyranosyl-5-methylchromone = 976
 1-Propenyl methyl thiosulfinate = 14690
 2-Propenyl propyl disulfide = 954
n-Propylamine = 17935
 Prosapogenin CP₂₆ = 16061
 Prosapogenin CP₃ = 16063
 Prosapogenin CP₃₆ = 9276

Prosapogenin CP₄ = 16060
 Prosapogenin CP₇ = 16057
 Prosapogenin CP_{7a} = 16058
 Prosapogenin CP_{8a} = 19318
 Prosapogenin CP₉ = 16055
 Prosapogenin CP_{9a} = 16056
 Protoescigenin-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosiduronic acid = 667
 Protoanemonin = 1179
 Protocatechualdehyde = 17968
 Protocatechuic acid = 5763
 1-*O*-Protocatechuyil- β -*D*-xylopyranose = 22240
 20(*S*)-Protopanaxadiol 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside, 20-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 8419
 20(*R*)-Protopanaxatriol = 17982
 20(*S*)-Protopanaxatriol-3,20-di-*O*- β -*D*-glucopyranoside = 8413
 Protoporphyrin iron(III) complex = 9345
 Protoveratrine B = 15452
 Provitamin D₄ = 14229
 Prunuside A = 15068
 Prunuside B = 15069
 Przewaquinone D = 20680
 Przewaquinone E = 20681
 Psathyrotin = 19211
cis-Pseudoisoeugenyl angelate = 14079
 Pseudoprotimosaponin AIII = 1173
 (-)-Pseudosemiglabin = 18063
 Pseudovinblastinediol = 18073
 Psoradern = 2309
 Puberanidine = 4745
 Pubescine = 18634
 Pulchinenoside A₃ = 1181
 (*R*)-(+)-Pulegone = 18190
 Purpureine = 21246
 Purpurocatechol = 22052
 Pyretrin = 11269
 3-Pyridinecarboxamide = 15527
 9*H*-Pyrido[3,4-*b*]indole = 15752
 2,4-Pyrimidinediol = 22237
 Pyromucic acid = 8012
 Pyroracemic acid = 18281
 Pyroside = 324
 3-(3-Pyrrol)-6-hydrxy-7-hydroxymethyl-isocoumarin = 11022

Q

Qinghaosu = 1784
 Qinghaosu I = 1782
 Qinghaosu III = 1783
 Qinghaosu V = 1801
 Quebrachamine = 12120
 Quercetagenin 7-*O*- β -*D*-glucopyranoside = 18316
 Quercetagenin 3-methyl ether = 16851

Quercetagenin-6,7,3',4'-tetramethyl ether = 6146
 Quercetin-3-*O*-(2"-*O*-acetyl- α -rhamnopyranoside) = 491
 Quercetin-3-arabioside = 7844
 Quercetin-3-*O*-arabioside = 9043
 Quercetin-3-*O*-(6-*O*-*cis*-*p*-coumaroyl)- β -*D*-glucopyranosyl (1 \rightarrow 2)- β -*D*-glucopyranosyl (1 \rightarrow 2)- β -*D*-glucopyranoside = 17493
 Quercetin-3,7-di-*O*- β -*D*-glucopyranoside = 18345
 Quercetin-3-*O*- β -*D*-galactoside = 10887
 Quercetin-3-*O*-(2"-galloyl)- β -*D*-galactopyranoside = 10888
 Quercetin-3-*O*- β -*D*-glucopyranoside = 11642
 Quercetin 3-*O*- β -*D*-glucopyranoside 3'-sulphate = 3387
 Quercetin-3-*O*-{ β -*D*-glucopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-galactopyranoside} = 17001
 Quercetin-3- β -*D*-glucoside-2"-gallate = 18360
 Quercetin-3-*O*- β -glucuronopyranoside = 18414
 Quercetin 3'-methoxy-4'-*O*- β -*D*-glucopyranoside = 925
 Quercetin 3'-methyl ether = 11648
 Quercetin-5-methyl ether = 2052
 Quercetin-3-*O*- α -*L*-rhamnopyranoside = 18411
 Quercetin 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)-2"-*O*-acetyl- β -*D*-glucopyranoside = 497
 Quercetin-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-caffeyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside = 15194
 Quercetin-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-feruloyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside = 15196
 Quercetin-3-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-galactofuranoside = 2394
 Quercetin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 6)- β -*D*-galactopyranoside = 18390
 Quercetin-3-*O*-(2"-*O*- α -rhamnopyranosyl)- β -glucopyranoside = 18378
 Quercetin-3-*O*-(6"-*O*- α -rhamnopyranosyl)- β -glucopyranoside = 19087
 Quercetin-3-*O*-(6"-*O*- α -*L*-rhamnopyranosyl)- β -*D*-glucopyranoside-7-*O*- β -*D*-glucopyranoside = 18391
 Quercetin-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-*P*-coumaroyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 15197
 Quercetin-7-*O*- α -*L*-rhamnopyranosyl-3-*O*-(6"-*P*-coumaroyl)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranoside = 15193
 Quercetin-3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 2)- α -*L*-rabinofuranoside = 1777
 Quercetin-3-*O*- α -*L*-rhamnopyranosyl (1 \rightarrow 2)-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside = 13479
 Quercetin-7-*O*-rhamnoside = 22492
 Quercetin-3-*O*-[β -*D*-xylopyranosyl(1 \rightarrow 2)]-[α -*L*-rhamnopyranosyl(1 \rightarrow 6)]- β -*D*-glucopyranoside-3'-*O*- β -*D*-glucopyranoside = 661
 β -Quinine = 18423
 p -Quinol = 9740

R

Rabdolongin B = 13526
 Rabdophyllin G = 11394
 Rabdosianone = 7268
 Rabdosianone II = 13524
 Rabdosin C = 11394
 Racemosin = 6300
 Raddeanin B = 6755
 Raddeanine = 11002
D-Raffinose pentahydrate = 18526

- Ranachrome 1 = 2393
 Ranachrome 4 = 11784
 Reidin A = 18756
 Reidin B = 18757
 Reidin C = 18758
 Reniformin A = 9362
 Resibufaginol = 10673
 Resveratrol 3-*O*- β -*D*-glucopyranoside = 17283
 Resveratrolside = 18650
 Retrofractamide B = 17444
 Retronecine† = 9318
 Retronecine† = 14923
 Retusin 7,8-di-*O*- β -*D*-glucopyranoside = 9556
 Reynoutrin = 18407
 Rhamnazin-3-*O*- β -*D*-apisoyl-(1 \rightarrow 2)-[6"-*O*-(3-hydroxy-3-methylglutarate)] glucoside = 22542
 Rhamnazin-*O*- β -*D*-(6"- β -hydroxy- β -methylglutaryl) glucoside = 22539
 Rhamnocitrin-3,4'-*O*- β -*D*-diglucoside = 3949
 6-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-6-*O*-acetyl- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol = 22898
 3-*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl abrisapogenol C 22-*O*- α -*L*-arabinopyranoside = 6694
 3-*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl kudzusapogenol A 22-*O*-acetate = 517
 3-*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl kudzusapogenol A 22-*O*- α -*L*-arabinopyranoside = 6693
 3-*O*- α -*L*-Rhamnopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl gypsogenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3820
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl]-hederagenin-28-[α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranosyl] ester = 12118
 3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]lup-20-(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 4431
 6-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-20-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol = 22897
 3 β -[(*O*- α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- α -*L*-arabinopyranosyl)oxy]olean-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl (1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl (1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 819
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl pomolic acid 28- β -*D*-glucopyranosyl ester = 18538
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl siaresinolic acid 28- β -*D*-glucopyranosyl ester = 18539
 6-*O*- α -*L*-Rhamnopyranosyl-aucubin = 19960
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -(3',4'-di-*O*-acetyl)-*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 β ,6 α ,16 β ,25-tetrol = 22047
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-21 β ,22 α -diangeloyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol = 13358
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-16 α ,22 α -diacetoxy-21 β -angeloyloxy)-13 β ,28-oxidoolean-28 α -ol = 13354
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-21 β -angeloyloxy-22 α -propanoyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol = 13355
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-21 β -angeloyloxy-22 α -butanoyloxy-13 β ,28-oxidoolean-16 α ,28 α -diol = 13356
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-16 α -acetoxy-21 β -angeloyloxy-22 α -propanoyloxy-13 β ,28-oxidoolean-28 α -ol = 13357
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-16 α -acetoxy-21 β -angeloyloxy-22 α -butanoyloxy-13 β ,28-oxidoolean-28 α -ol = 13359
 3 β -*O*-{[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)]-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl]-16 α -acetoxy-21 β ,22 α -diangeloyloxy-13 β ,28-oxidoolean-28 α -ol = 13360
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)][β -*D*-glucopyranosyl-(1 \rightarrow 2)]-[β -*D*-glucuronopyranosyl] camelliagenin A 22-*O*-angelate = 13363
 3 β -*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl]-28-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-hederagenin = 16700
 3 β -*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl]-28-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-oleanolate = 16701
 3 β -*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl]-28-*O*- β -*D*-glucopyranosyl-oleanolate = 16702
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)[β -*D*-glucopyranosyl(1 \rightarrow 4)]- α -*L*-arabinopyranosyl hederagenin 28-*O*-*D*-glucopyranosyl ester = 3433
 3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- α -*L*-arabinopyranosyl]-3 β -hydroxy-13 β ,28-epoxy-16-oxo-oleanan-30-al = 1642
 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-3 β ,21 α -dihydroxyursolic acid 21-*O*- β -*D*-glucopyranoside = 12556
 1-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-2(*E*,6*E*)-farnesol = 4228
 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 3)][β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl cyclamiretin A = 1626
 3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl]-13 β ,28-epoxy-16-oxo-oleanan-3 β ,30-diol = 1641
 3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl]-3 β -hydroxy-13 β ,28-epoxy-oleanan-16-oxo-30-al = 1640
 3-*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranosyl]-3 β ,16 α ,28 α -trihydroxy-

- 13 β ,28-epoxy-oleanan-30-al = 1639
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] = 6554
- 3-*O*-[α -*L*-Rhamnopyranosyl-(\rightarrow)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]serjanic acid = 19337
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]serjanic acid 28-*O*- β -*D*-glucopyranoside = 19341
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]spergulenigenic acid = 19338
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranosyl]-3 β ,16 β ,22 β ,24-tetrahydroxy-olean-12-ene = 19332
- 4-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl]-2-hydroxyl-6-methoxybenzophenone = 20959
- 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 1255
- 3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl)oxy]-pregna-5,16-dien-20-one = 20230
- 3 β -[(*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl)oxy]pregna-5,16-dien-20-one = 20231
- 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-hederagenin 28-*O*- β -*D*-glucopyranoside = 11817
- 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-3 β ,21 α ,28-trihydroxy-urs-12-ene 21-*O*- β -*D*-glucopyranoside = 12555
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 6)]- β -*D*-xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- α -*L*-arabinopyranoside] = 11909
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] = 6553
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-glucuronopyranosyl]-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-oleanolate = 3914
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -(3'-*O*-november acetyl)-*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxy-3 β ,6 α ,16 β ,25-tetrahydroxycycloartane = 1947
- 6-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-quinovopyranosyl (22*R*,23*R*,25*S*)-3 β ,6 α ,23-trihydroxy-5 α -spirostane = 21473
- 3 β -*O*-{ α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl}-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-hederagenin = 16698
- 3 β -*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)]- α -*L*-arabinopyranosyl]-28-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-oleanolate = 16699
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside] = 6555
- 3-*O*- α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 1253
- 3-*O*-[α -*L*-Rhamnopyranosyl (1 \rightarrow 2)- β -*D*-xylopyranosyl]-spergularatriol = 20145
- 3-*O*-[α -*L*-Rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl]-6-*O*- β -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxy-3 β ,6 α ,16 β ,25-tetrahydroxycycloartane = 1949
- 4[α -*L*-Rhamnosyl(1 \rightarrow 2)- β -*D*-glucopyranosyloxy]-2-hydroxymethylene,5-hydroxy naphthalene = 6461
- 1[α -*L*-Rhamnosyl(1 \rightarrow 2)-(β -*D*-glucopyranosyloxy)]-3,4,5-trimethoxy benzene = 6463
- Rhapontigenin 3-*O*- β -*D*-glucopyranoside = 18744
- Rhein-8-monoglucoside = 18761
- Rhetsinine = 10117
- Rhizopin = 11031
- Rhoifolin = 1497
- Rhoifolose = 1497
- Ribaline = 19083
- 9- β -Ribofuranosylguanine = 9071
- 9- β -*D*-Ribofuranosyl-9*H*-purin-6-amine = 618
- 3-*O*- β -*D*-Ribopyranosyl hederagenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3821
- Ricinolic acid = 18841
- rosmanol = 8090
- Rosmarinic acid = 12420
- Rotenolone = 10680
- Rotundine = 21077
- Roupelliol = 1644
- Roxburghilin = 16002
- Roxburghiline = 16002
- Royleose = 16032
- Rubescensin A = 16183
- Rubescensine = 16183
- Rubescensin E = 18503
- Rubescensine B = 17717
- Rubiarboside F = 19010
- Rubrobrassicin = 18548
- Rubrofusarin gentiobioside = 19042
- Rubschisandrin = 12003
- Rugosal = 19047
- (25*S*)-Ruscogenin 1-*O*-{*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[β -*D*-xylopyranosyl-(1 \rightarrow 3)]- β -*D*-fucopyranoside} = 19072
- Rutaevin = 7668
- Rutaevin (*E*)-*p*-hydroxycinnamate = 9914
- Rutaevin (*Z*)-*p*-hydroxycinnamate = 9913
- Rutamarin alcohol = 9304

S

- (+)-(1*R**,3*S**,5*R**,6*S**)-Saccogynol = 19106
- Safflor yellow A = 19111
- Salazinic acid = 16673
- m*-Salicylic acid = 9817
- p*-Salicylic acid = 9818
- Salidroside = 18792
- Salsolide C = 20529
- Salsolide E = 20535
- (+)-Salutaridine = 7837

- Salvianolic acid B = 4631
 Sanchinoside E₁ = 8423
 Sanggenone G = 19262
 Sanjoinine A = 7937
 β -Santala(3,15),10-diene = 19303
 Santamarine = 19308
 Santol = 16209
 Sapogenin ST-1 = 10096
 Saponaretin = 11773
 Saponin C = 16025
 Sappanchalcone = 14099
 Sarisan = 1832
 Sarmentogenin 3-*O*- α -*L*-diginoside = 6532
 Sarmentogenin 3-*O*- α -oleandroside = 6530
 Sarotanoside = 16122
 Sarothralen B = 11818
 Sarothralin = 11819
 Sarsasapogenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranoside = 22796
 Sativan = 19394
 (+)-Saucernetin = 19404
 Saurolectam = 19417
 Saussurine = 19427
 Saxifragin = 18369
 Scabioside A = 12642
 Scabioside C = 12643
 Scandenone = 22637
 Schinol = 10364
 γ -Schisandrin = 5178
 Schisandrin B = 5178
 Schisandrin C = 19497
 Schisandronic acid = 19499
 Schisanhenol = 8917
 Schisanhenrin = 8907
 Schisantherin A = 8908
 Schisantherin B = 8907
 Schizandrin A = 5213
 Schizandrin B = 5178
 Schizanhonol = 8917
 Schizanthrin B = 8907
 Schizanthrin D = 19490
 Schkuhrin I = 9570
 Scopolamine = 10870
 Scroside B = 17511
 Scutellarein 4'-*O*-methylether 7-*O*- β -glucopyranoside = 20252
 1,10-Seco-dihydroisoparthenin-1,10-dione = 3482
ent-3,4-Seco-16 α -hydroxyatis-4(19)-en-3-oic acid = 7692
 (8*R*,8'*R*)-(-)-Secoisolaricresinol = 19618
ent-2,3-Secokaur-16-en-2,3-dioic acid = 7691
 Selagine = 9686
 Selina-4(14),7(11)-diene = 19681
 Selina-4(14),7(11)-dien-8-one = 7495
 Selina-4(15),7(11)-dien-8-one = 7495
 Selinan = 19685
 Selinidin = 11834
 Sempervine = 19697
 Sempervirine = 19697
 Senburiside IV = 8758
 Senkyunolide A = 2791
 Senkyunolide I = 5590
 (*L*)-Serine = 19759
 Serratagenic acid 3-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranoside = 7633
 Serratetetrol = 21424
 Serratendiol = 7017
 Serrat-14-en-3 β ,21 α -diol = 19768
 Serrat-14-ene = 19767
 (+)-Sesamin = 19777
 Shashenoside I = 20569
 Shegansu B = 16691
 Shogaol = 19846
trans-6-Shogaol = 19846
 Sibiricoside A₁ = 1683
 Sibiricoside A₅ = 1682
 Silerin = 21889
 Silibinin = 19895
 Silybin A = 19895
 Simalikalactone A = 15548
 Sinapyl alcohol diisovalerate = 20559
 Sinapyl alcohol 4'-*O*- β -glucopyranoside = 20569
 Sinoacutine = 19200
 Sinpeimine-3-*O*- β -glucoside = 22904
 Sipeimine† = 11002
 Sipeimine† = 18519
 Δ^5 -Sitosterol-3-one = 19993
 β -Sitosteryl 3-*O*- β -*D*-glucoside = 19985
 Skatole = 19459
 Sobrepin = 20030
 Solandulcidine = 20042
 Solanidine-3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 4)] β -*D*-glucopyranoside = 15408
 α -Solanine = 20060
 Solasodine *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-{[β -*D*-xylopyranosyl-(1 \rightarrow 3)], [α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]}- β -*D*-glucopyranoside = 1822
 Sophoraflavanone B = 11248
 (-)-Sophoramide = 20094
 8 α -Sovaleryloxy-1 α -hydroxy-3 α ,4 α -epoxy-5 α ,7 α H-10(14),11(13)-guaiadien-12,6 α -olide = 7197
 Soyasaponin Bb = 20127
 Soyasaponin Bd = 19238
 Speciophylline = 22206
 Specneuzhenide = 15873
 Spermathridine = 12917
 Sphaerophysone A = 21760
 Spheroidine = 21211
 α -Spinasterol glucoside = 20169

- Spiperlactam S = 17460
 Spiroacide = 18368
 (+)-Spiropachysine = 20205
 25*R*-Spirosta-3,5-diene = 20207
 25*S*-Spirosta-3,5-diene = 20208
 (23*S*,24*S*)-Spirosta-5,25(27)-diene-1*β*,3*β*,23,24-tetrol 1-*O*-{*O*-(2-*O*-acetyl-*α*-*L*-rhamnopyranosyl)-(1→2)-*α*-*L*-arabinopyranosyl)} = 6578
 (23*S*,24*S*)-Spirosta-5,25(27)-diene-1*β*,3*β*,23,24-tetrol 1-*O*-{*O*-(2,3-di-*O*-acetyl-*α*-*L*-rhamnopyranosyl)-(1→2)-*α*-*L*-arabinopyranosyl)} = 6577
 (23*S*,24*S*)-Spirosta-5,25(27)-diene-1*β*,3*β*,23,24-tetrol-*O*-{*O*-(2,3,4-tri-*O*-acetyl-*α*-*L*-rhamnopyranosyl)-(1→2)-*α*-*L*-arabinopyranosyl)} = 6576
 Spirostane-3,27-diol = 2150
 Spirostane-1,2,3,5-tetrol = 12251
 (22*S*,23*S*,24*R*,25*S*)-5*α*-Spirostane-3*β*,23,24-triol 24-*O*-*β*-*D*-glucopyranoside = 698
 (25*S*)-5*β*-Spirostan-3*β*-ol = 19390
 (25*S*)-5*β*-Spirostan-3*β*-ol-3-*O*-*α*-*L*-arabinopyranosyl-(1→6)-[*α*-*L*-arabinopyranosyl-(1→4)]-*β*-*D*-glucopyranosyl-(1→2)]-*β*-*D*-glucopyranoside = 1863
 (3*β*,5*α*)-Spirostan-3-yl *O*-6-deoxy-*α*-*L*-mannopyranosyl-(1→2)-*O*-[*β*-*D*-glucopyranosyl-(1→4)]-*β*-*D*-galactopyranoside = 21014
 (3*β*,5*α*)-Spirostan-3-yl *O*-*β*-*D*-galactopyranosyl-(1→2)-*O*-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-galactopyranoside = 21013
 Spirost-5,25(27)-dien-1*β*,3*r*-diol = 6974
 (25*R*)-Spirost-5-en-1*β*,3*α*-diol = 7009
 (22*R*,25*S*)-Spirost-5-en-3*β*,15*α*-diol 3-*O*-{*β*-*D*-glucopyranosyl (1→2)-*β*-*D*-glucopyranosyl-(1→4)-[*α*-*L*-rhamnopyranosyl-(1→2)]-*β*-*D*-galactopyranoside} = 13022
 Spirost-5-ene-3,17-diol = 16809
 (25*S*)-Spirost-5-ene-3*β*,27-diol 27-*O*-*β*-*D*-glucopyranosyl-3-*O*-[*α*-*L*-rhamnopyranosyl-(1→4)]-*β*-*D*-glucopyranoside = 17646
 Spirost-25(27)-en-1*β*,3*α*,4*β*,5*β*-tetraol = 22111
 Spirost-25(27)-en-1*β*,3*β*,5*β*-triol = 22112
 (25*S*)-Spirost-1*β*,2*β*,3*β*,4*β*,5*β*-pentol 2-sulfate = 1899
 (25*S*)-Spirost-1*β*,2*β*,3*β*,5*β*-tetraol = 22113
 1(10)-Spirovetiven-11-ol = 9542
 Squalidine = 11091
 Squamostatin C = 2736
 Stauntogenin 3-*O*-[*α*-*L*-Cymaropyranosyl-(1→4)-*β*-*D*-digitoxopyranosyl-(1→4)-*β*-*D*-3-demethyl-2-deoxy-thetopyranoside] = 20277
 Stauntogenin 3-*O*-[*α*-*L*-Cymaropyranosyl-(1→4)-*β*-*D*-digitoxopyranosyl-(1→4)-2,6-dideoxy-*β*-*D*-ribo-hexopyranoside] = 20277
 Stauntogenin 3-*O*-[*α*-*L*-diginopyranosyl-(1→4)-*β*-*L*-cymaropyranosyl-(1→4)-*β*-*D*-digitoxopyranosyl-(1→4)-*β*-*D*-thetopyranoside] = 20276
 Stearyl alcohol = 15950
 Stomodol-*α*-*L*-arabinopyranoside = 20302
 Stomodol-*β*-*D*-glucopyranoside = 20303
 Stomodinol = 20295
 Stephaniaflavone A = 20314
 Stephaniaflavone B = 20315
 Stephenanthrine = 20320
 Stevein = 20340
 Stevenine = 20340
 Stigmasta-5,28-diene-3,24-diol = 19367
 4^{5,25}-Stigmastadienol = 3844
 Stigmasta-5,24(28)*E*-dien-3-ol = 7978
 (22*E*)-Stigmasta-5,22-dien-3*β*-ol = 20369
 Stigmast-5-ene-3*β*,7*α*-diol = 10967
 (3*β*,24*R*)-Stigmast-5-en-3-ol = 19983
 (3*β*,24*S*)-Stigmast-5-en-3-ol = 19984
 Stigmast-4-en-3-one = 19981
 Stigmast-5-en-3-one = 19993
 Stigmasterol 3-*O*-*β*-*D*-glucoside = 20372
 Stigmasteryl palmitate = 7426
 Stoindoside I = 19997
 Strophanthidin 3-*O*-*β*-*D*-glucopyranosyl-(1→4)-*β*-*D*-antiaropyranoside = 3495
 (-)-Strychnine = 20410
 Stypanol = 9339
 Styptysat = 3141
 Suavissimoside F₁ = 20433
 1,2,3,9,10-Substituted aporphine alkaloid = 14708
 2,3,10,11-Substituted pseudoprotoberberine alkaloid = 4886
D(+)-Sucrose = 20446
 Sudachiflavone = 21858
 Sulfapatrinoside I = 20476
 Sulfapatrinoside II = 20477
 5-Sulfonyl-1,7-bis(4,5-dihydroxy-3-methoxyphenyl)-heptan-3-one = 19851
 5-Sulfonyl-1,7-bis(3,4-dihydroxyphenyl)-heptan-3-one = 19850
 5-Sulfonyl-1,7-bis(4-hydroxy-3-methoxyphenyl)-heptan-3-one = 19848
 Sulfonyl bis-methane = 6408
 3-*O*-[6-*O*-Sulfonyl-*β*-*D*-glucopyranosyl-(1→3)]-*α*-*L*-arabinopyranosyl-pseudojubenin = 2088
 5-Sulfonyl-1-(4-hydroxy-3-methoxyphenyl)-7-(3,4-dihydroxyphenyl)-heptan-3-one = 19849
 Sulforaphane = 14728
 3-*O*-[(2-*O*-Sulfonyl-*β*-*D*-glucopyranosyl)-(1→2)-*β*-*D*-glucopyranosyl]-echinocystic acid 28-*O*-*β*-*D*-glucopyranoside = 6703
 Surtogin = 20496
 Suspensaside = 7926
 Swertiaperennin = 14732
 Sylvic acid = 10
 (+)-Syringaresinol-di-*O*-*β*-*D*-glucoside = 12916
 Syringaresinol-4'-*O*-*β*-*D*-glucopyranoside = 85
 (+)-Syringaresinol *O*-*β*-*D*-glucopyranoside = 85
 Syringetin-3-*O*-*α*-*L*-rhamnopyranosyl-(1→6)-*β*-*D*-galactopyranoside = 20564

T

- Tachioside = 10432
 Tadeonal = 17640
 Tanetin = 19312
 Tanshinaldehyde II = 20678
 (+)-Tanshindiol A = 20679
 Tanshiquinone A = 4632
 Tanshiquinone B = 4633
 Tanshiquinone C = 4634
 Taraxanthin = 13127
 20-Taraxastene = 20698

- 20-Taraxastene-3,16-diol = 7715
 Tarichatoxin = 21211
 Tatasaponin I = 20383
 Taureminin = 20730
 Tauroside G₂ = 819
 Taxa-4(20),11-diene-2 α ,5 α ,10 β ,14 β -tetraol-2 α ,5 α ,10 β -triacetate-14 β - α -methyl- β -hydroxyl butyrate = 22951
 Taxawallin C = 20775
 Taxayuntin = 20758
 Taxayuntin H = 20751
 Taxchinin C = 20762
 Taxchinin L = 20764
 Taxcultine = 20814
 Taxifolin = 5699
 Taxifolin-3-*O*- α -L-rhamnoside = 1928
 Taxine C = 4780
 Taxine I = 20795
 Taxol B = 3402
 Taxuspinanane E = 6884
 Taxuspinanane F = 20750
 Taxuspinanane I = 14651
 Taxuspinanane J = 2074
 Taxuyunnanane A = 20813
 Tecleoxine = 20893
 Tectoquinone = 14144
 Tectorigin = 20900
 Telepathine = 9235
 Tellimagrandin II = 7518
 Telosmogenin I 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside = 20913
 Telosmogenin I 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside = 20920
 Telosmogenin I 3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside = 20915
 Telosmogenin I 3-*O*- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside = 20917
 Telosmogenin I 3-*O*- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside = 20912
 Teracrylshikonin = 20968
 Teresantalaldehyde = 20971
 Teresantanane = 21598
 Terpeneol acetate = 20999
 Terpinen-4-ol = 20992
 2 α ,5 α ,14 α ,17 α -Tetraacetoxo-3 β -benzoxyloxy-15 β -hydroxy-9-oxoparalane = 17731
 2 α ,4 α ,7 β ,10 β -Tetraacetoxo-5 β ,20-epoxy-9 α ,13 α ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene = 20836
 2 α ,5 α ,10 β ,14 β -Tetraacetoxytaxa-4(20),11-diene = 20875
 5 α ,9 α ,10 β ,13 α -Tetraacetoxytaxa-4(20),11-diene = 20840
 5 α ,9 α ,10 β ,13 α -Tetraacetoxytaxa-4(20),11-dien-14 β -ol = 10740
 5 α ,7 β ,9 α ,20-Tetraacetoxo-2 α ,10 β ,13 α ,15-tetrahydroxy-11-(15 \rightarrow 1)-abeo-taxene = 20835
 1,3',4',6'-Tetra-*O*-acetyl-6-*O*-*p*-coumaroylsucrose = 18005
 2,5,10,13-Tetraacetyl-11-taxene-2,5,7,9,10,13,20-heptol = 20752
 2,10,12,10'-Tetrachloroisoplagiochin C = 2182
n-Tetracosanoic acid = 12800
 Tetracosanoyl-*p*-hydroxy phenethylamine = 22522
 Tetradecanoic acid = 15203
 12-Tetradecanoylphorbol 13-acetate = 17187
 5-Tetradecenoic acid = 21046
cis-9-Tetradecenoic acid = 15205
 Tetradecenoic acid C = 15205
 3,14,19,20-Tetrahydro-16-ethenyl-17-(β -D-glucopyranosyloxy)-19-hydroxy-(15 β ,16 α ,17 β)-oxayohimban-21-one = 15310
 14,15,19,20-Tetrahydro-16-ethenyl-17-(β -D-glucopyranosyloxy)-19-hydroxy-(3 α ,16 α ,17 β)-oxayohimban-21-one = 15311
 (-)-(2*R*,3*S*,4*R*,5*R*,10*S*,2'*S*)-1-[2,3,4,5-Tetrahydro-10-acetyloxy-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 21275
 (3 α)-3,4,5,6-Tetrahydroalstonine = 21055
 Tetrahydrobenzylisoquinoline alkaloid = 6316
 Δ^2 -Tetrahydrocannabinolic acid = 21060
 (-)-Tetrahydrocolumbamine = 11348
 Tetrahydrodesoxycordifoline = 3184
 (-)-(1*R*,2*R*,3*S*,3*aR*)-16,7,8,8a-Tetrahydro-8,8a-dihydroxy-9-methoxy-5a-(4-methoxyphenyl)-6-phenyl-5a*H*-cyclopenta[4,5]furo[2,3-*f*]-1,3-benzodioxole-7-*N,N*-dimethyl amide = 741
 (-)-(2*R*,3*S*,4*R*,5*R*,10*S*,2'*S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylbutanoylamino)-pyrrolidine = 9623
 (-)-(2*R*,3*R*,4*S*,5*R*,10*R*,2*S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 11739
 (+)-(2*R*,3*R*,4*S*,5*R*,10*S*,2'*RS*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 21276
 (*S*)-5,8,13,13a-Tetrahydro-3,10-dimethoxy-6*H*-dibenzof[*a,g*]quinolizine-2,9-diol = 19566
 1,2,3,4 Tetrahydro-6,7-dimethoxy-2-methylisoquinoline = 14253
 Tetrahydroharman = 6736
 3,3 α ,7,7 α -Tetrahydro-3 α -hydroxy-6(2*H*)-benzofuranone = 18615
 4a*S**-2,3,4,4a-Tetrahydro-6-hydroxy-7-isopropyl-1,1,4a-trimethyl-5,8(1*H*)-fluorene-dione = 5434
 (+)-(2*R*,3*S*,4*R*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 21277
 (+)-(2*R*,3*R*,4*S*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 21278
 1,2,3,4-Tetrahydro-4-hydroxy-4-quinolin carboxylic acid = 22082
 Tetrahydrojatrorrhizine = 4122
 (+)-(2*R*,3*S*,4*R*,2'*RS*)-1-[2,3,4,5-Tetrahydro-2-methoxycarbonyl-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-5-oxo-3-phenyl-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine = 21274
 1,2,3,4-Tetrahydro-6-methoxy-7-hydroxy-1,2-dimethylisoquinoline = 14252

- 1,2,3,4-Tetrahydro-6-methoxy-7-hydroxy-2-methylisoquinoline = 4121
 8,13,13*b*,14-Tetrahydro-14-methylindolo[2',3':3,4]pyrido[2,1*b*]quinazolin-5(7*H*)-one = 7665
 (6*R*,8*R*)-5,6,7,8-Tetrahydro-8-methyl-1,3,6-naphthalenetriol = 7761
 Tetrahydropiperinic acid = 21078
 Tetrahydropyrrole = 18275
 1,2,15,16-Tetrahydrotanshiquinone = 21080
 4''*a*,5'',6'',8''*a*-Tetrahydro-5,7,4'-trihydroxy-3-methoxy-5'',5'',8''*a*-trimethyl-4*H*-chromeno[2'',3'':3,2'']flavone = 22182
 1*β*,6*β*,7*β*,14*β*-Tetrahydroxy-19-acetoxy-7*α*,20-epoxy-*ent*-kaur-16-en-15-one = 22792
 3*β*,7*β*,11*β*,15*β*-Tetrahydroxy-6*α*-acetoxy-*ent*-kaur-16-ene = 13702
 2,3,7,8-Tetrahydroxy[1]benzopyrano[5,4,3-*cde*][1]benzopyran-5,7-dione = 6757
 3',4,4'',6'-Tetrahydroxy-2'-benzoyloxy-5'-(3-pyridinecarboxyl)[1,1':4',1'-terphenyl] = 21306
 (*E*)-4,5,6,7-Tetrahydroxy-2-benzylhept-2-enoic acid = 6613
 2,4,3',4'-Tetrahydroxybiphenyl = 19346
 3,4,2',4'-Tetrahydroxychalcone = 2779
 (2*S*,2*S*)-11*α*,16*β*,22,26-Tetrahydroxycholest-4-en-3-one 16-*O-β-D*-glucopyranosyl-(1→3)-*β-D*-xylopyranoside = 16879
 (1*α*,3*α*,4*α*,5*β*)-1,3,4,5-Tetrahydroxy-cyclohexanecarboxylic acid = 18421
 3*β*,6*α*,12*β*,24*ξ*-Tetrahydroxy-dammar-20(22),25-diene 6-*O-β-D*-glucopyranoside = 8440
 3*β*,7*β*,12*β*,20(*S*)-Tetrahydroxy-dammar-5,24-diene 20-*O-β-D*-glucopyranoside = 8442
 1*β*,3*β*,12*β*,20(*S*)-Tetrahydroxy-dammer-24(25)-en-3-*O-β-D*-glucopyranosyl-20(*S*)-*O-β-D*-glucopyranosyl-(1→6)-*β-D*-glucopyranoside = 9095
 3',4,4'',6'-Tetrahydroxy-2',5'-dibenzoyloxy [1,1':4',1''-terphenyl] = 21302
 3,5,3',4'-Tetrahydroxy-6,7-dimethoxyflavone = 7588
 5,7,3',4'-Tetrahydroxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone = 22183
 1,3,5,6-Tetrahydroxy-4-[(2*E*)-3,7-dimethylocta-2,6-dienyl]-8-(3-methylbut-2-enyl)xanthone = 22524
 1,3,6,7-Tetrahydroxy-2-(3,7-dimethyl-2,6-octadienyl)-5-(3-methyl-2-butenyl)xanthone = 6630
 1,3,5,6-Tetrahydroxy-2-(1,1-dimethyl-2-propenyl)xanthone = 4347
 (2*R*,2*Z*)-1*α*,3*β*,22,26-tetrahydroxyergost-5,24-diene 26-*O-β-D*-glucopyranoside = 3646
 3',4',5,7-Tetrahydroxyflavanol = 6853
 (2*S*)-5,7,2',4'-Tetrahydroxyflavanone = 20326
 3,5,7,4'-Tetrahydroxyflavone = 12020
 3,7,3',4'-Tetrahydroxyflavone = 7802
 5,7,3',4'-Tetrahydroxyflavone = 13137
 5,7,8,4'-Tetrahydroxyflavone = 11703
 3,4',5,7-Tetrahydroxyflavone-3-*L*-rhamnoside = 12082
 3',4',5,7-Tetrahydroxyflavanol-3-*β-D*-galactoside = 10887
 6*β*,7*β*,14*β*,15*R*-Tetrahydroxy-11*β-O*-formyl-7*α*,20-epoxy-*ent*-kaur-16-ene = 18977
 2',3,4,4'-Tetrahydroxy-3'-geranylchalcone = 8330
 3*β*,12*β*,20(*S*),24*ξ*-Tetrahydroxy-20-*O-β-D*-glucopyranosyl-3-*O-β-D*-glucopyranoside = 8414
 3*β*,6*α*,12*β*,20(*S*)-Tetrahydroxy-25-hydroperoxy-dammar-23-ene 20-*O-β-D*-glucopyranoside = 8441
 5,7,2',4'-Tetrahydroxy-6-(2''-hydroxy-3''-methylbut-3''-enyl)-8-(*γ*,*γ*-dimethylallyl) isoflavone = 7318
 5,7,3',4'-Tetrahydroxyisoflavone = 16209
cis-5*α-H*,3*β*,8*β*,14*β*,17*β*-Tetrahydroxy-12*β-O*-isovaleryl-20-*O*-isovaleryl-pregnane = 6602
 1*α*,7*α*,12*α*,14*β*-Tetrahydroxy-*ent*-kaur-16-en-15-one = 7674
 1*α*,7*α*,14*β*,18-Tetrahydroxy-*ent*-kaur-16-en-15-one = 7684
 7*α*,12*α*,14*β*,18-Tetrahydroxy-*ent*-kaur-16-en-15-one = 18472
 7*α*,12*α*,14*β*,20-Tetrahydroxy-*ent*-kaur-16-en-15-one = 7682
 7*α*,14*β*,18,20-Tetrahydroxy-*ent*-kaur-16-en-15-one = 7683
 3,5,7,8-Tetrahydroxy flavone 4'-*O-α-L*-rhamnopyranoside = 18791
 1,3,5,8-Tetrahydroxy-2-methoxyanthraquinone = 18874
 5,5'',7,7''-Tetrahydroxy 3'-methoxy 4',4'''-biflavonyl ether = 14557
 3,5,7,3'-Tetrahydroxy-4'-methoxy flavone = 20657
 3,5,8,4'-Tetrahydroxy-7-methoxy flavone = 17617
 5,6,3',4'-Tetrahydroxy-7-methoxyflavone = 16758
 5,7,3',4'-Tetrahydroxy-6-methoxyflavone = 7556
 3',4',5,7-Tetrahydroxy-6-methoxyisoflavone = 11157
 3,5,7,4'-Tetrahydroxy-3'-methoxy-6-isoprenyl flavone = 8142
 5,6,3',4'-Tetrahydroxy-3-methoxy-6'-isoprenyl flavone = 22238
 5,7,3',4'-Tetrahydroxy-3-methoxy-5'-isoprenyl flavone = 22242
 5,7,3',4'-Tetrahydroxy-3-methoxy-2'-(2,6,6-trimethyl-2-cyclohexenylmethyl) flavone = 22181
 3*β*,16*β*,23,28-Tetrahydroxyoleana-11,13(18)-dien-3-*O-β-D*-glucopyranosyl-(1→6)-[*α-L*-rhamnopyranosyl-(1→4)]-*β-D*-glucopyranoside = 19153
 3*β*,16*β*,23,28-Tetrahydroxyoleana-11,13(18)-dien-3-*O-β-D*-xylopyranosyl-(1→2)-*β-D*-glucopyranosyl-(1→3)-*β-D*-fucopyranoside = 19150
 2*β*,3*β*,6*β*,28-Tetrahydroxyolean-12-en-23-oic acid 23-*O-α-L*-arabinopyranosyl ester = 8130
 2*α*,3*α*,11,12-Tetrahydroxypicrotoxan-3(15*α*)-olide 11-*O-β-D*-glucopyranoside = 5119
 2',3,4,4'-Tetrahydroxy-5-prenylchalcone = 17827
 2',4',5,7-Tetrahydroxy-6-prenylflavanone = 4335
 5,7,3',4'-Tetrahydroxy-5'-prenylflavoanone = 22239
 3,5,7,4'-Tetrahydroxy-8-prenylflavone-3,7-*O-α-L*-dirhamnopyranoside = 2141
 3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O-α-L*-rhamnopyranoside = 2139
 3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O-α-L*-rhamnopyranosyl-(1→4)-*α-L*-rhamnopyranoside = 2140
 3,5,7,4'-Tetrahydroxy-8-prenylflavone-3-*O-α-L*-rhamnopyranosyl-(1→4)-*α-L*-rhamnopyranosyl-7-*O-β-D*-glucopyranoside = 2142
 (2*S**R*)-1*β*,2*β*,3*β*,5*β*-Tetrahydroxyspirostan-4*β*-yl-*O-β-D*-xylopyranoside = 22653
 Tetrahydroxystilbene = 4337
 3,5,3',4'-Tetrahydroxystilbene = 17278
 5*α*,9*α*,10*β*,13*α*-Tetrahydroxy-4(20),11-taxadiene = 21160
 3,5,7,4'-Tetrahydroxy-6-(2,6,6-trimethyl-2-cyclohexenylmethyl)flavone = 22180
 2*α*,3*β*,19*α*,30-Tetrahydroxyurs-12-en-24,28-dioic acid 28-*O-β-D*-glucopyranosyl ester = 21403
 2*β*,3*β*,7*β*,19*α*-Tetrahydroxyurs-12-en-28-oic acid = 18970
 2*α*,3*α*,19*α*,24-Tetrahydroxyurs-12-en-28-oic acid 28-*O-β-D*-glucopyranoside = 18007
 (2*R*,2*R*)-1*α*,3*β*,20,27-Tetrahydroxywitha-5,24-dienolide 3-*O-β-D*-glucopyranoside = 22714
 1,3,6,7-Tetrahydroxyxanthone = 15715
 1,3,5,8-Tetrahydroxyxanthone = 15718

- 4,4',6,6'-Tetramethoxy-[1,1'-biphenanthrene]-2,2',3,3',7,7'-hexol = 2398
 5,9,10,12-Tetramethoxy-2,2-dimethyl-2*H*-pyrano[5,6-*b*]xanthen-6-one = 6633
 3,3',4',5'-Tetramethoxyfuran[4'',5'':8,7]foavone = 16491
 2,3,4,5-Tetramethoxy-xanthone-1-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-xylopyranoside = 22387
 1,1,4,8-Tetramethylcycloundecane = 9667
 1,3,3,8-Tetramethylcycloundeca-1,4,8-triene = 11458
 (1*S*,8*S*)-4*a*,7*b*,10,10-Tetramethyl-3*b*,6*b*-dihydroxytricyclo[5,3,0,0^{2,5}]decan-2*a*,6-olide = 7738
 1,1,4,7-Tetramethyl-1*a*,2,4*a*,5,6,7*b*-hexahydro-1*H*-cyclopropa[*e*]azulene = 1756
 2,2,5,7-Tetramethyl-4-hydroxy-6-(2-hydroxyethyl)-indanone = 16098
 Tetra-*O*-methylisoscutellarein = 21186
 2,2,4,4-Tetramethyl-6-(1-oxo-3-phenylprop-2-enyl)cyclohexane-1,3,5-trione = 3472
 2,3,5,6-Tetramethylpyrazine = 3633
 2,2,6,9-Tetramethyl-3,4,6*a*,7-tetrahydro-2*H*-3,9*a*-methanocyclopent[*b*]oxocine = 9039
 (1*R**,6*R**,7*R**)-3,7,10,10-Tetramethyltricyclo[4.3.2.0^{2,6}]undec-2-ene = 8453
 (1*S**,8*S**,11*R**)-4,7,7,11-Tetramethyl-tricyclo[6.3.0.0^{1,5}]undec-4-ene = 16583
 24,25,26,27-Tetra-norapotirucalla-(apoeupha)-6*a*-acetoxy-7*a*-hydroxy-1,14,20,22-tetraen-21,23-epoxy-3-one = 364
 [24,25,26,27-Tetranorapotirucalla-(apoeupha)-6*a*-hydroxy,11*a*-methoxy-7*a*,12*a*-diacetoxy,1,14,20(22)-trien-3-one] = 13662
 [24,25,26,27-Tetranorapotirucalla-(apoeupha)-6*a*-methoxy-7*a*-acetoxy-1,14-dien-3,16-dione-21-al] = 22961
 24,25,26,27-Tetranorapotirucalla-(apoeupha)-1*a*-trimethylacryloxy-21,23-6*a*,28-diepoxy-16-oxo-17-oxa-14,20,22-trien-3*a*,7*a*-diol = 13663
 6,7,3',4'-Tetrasubstituted tetrahydrobenzylisoquinoline alkaloid = 22819
 Tetrodontoxin = 21211
 Teucrol-4'-*O*- α -rhamnopyranosyl-(1'''' \rightarrow 6''')- β -*O*-galactopyranosyl-(1'''' \rightarrow 4''')- α -*O*-rhamnopyranoside = 21221
 Texogenin = 13569
 Thalicsimine = 9441
 Thalictiin = 1492
 Thalictrine = 13374
 Thalictrisine = 21249
 Thaliximine = 9441
 Thalpinine = 21235
 Thalrugosamine = 9597
 Thalsimine = 21234
 Thaspine = 20717
 Δ^2 -THC = 21060
 Δ^8 -THC = 21058
 Δ^9 -THC = 21059
 Theasapogenol B = 2152
 Theasapogenol C = 3032
 Theasapogenol D = 3030
 Theasapogenol E = 3034
 Thiamine = 22554
 3-Thiapentane = 5503
 Threitol = 7334
 Thunbergene = 3385
 Thymine = 14802
 Thymoquinol 2,5-*O*- β -diglucopyranoside = 10763
 Tyrosine = 21175
trans-Tiglaldehyde = 21370
 Tiglic aldehyde = 21370
 21-*O*-Tigloyl-28-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosiduronic acid = 11416
 21-*O*-Tigloyl-22-*O*-acetylprotoaescigenin-3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosiduronic acid = 7361
 21-*O*-Tigloyl-22-*O*-acetyltheasapogenol E 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)-[β -*D*-xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid = 21289
 21-Tigloylbarringtonol C 3*b*-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranoside] = 2313
 28-Tigloylbarringtonol C 3*b*-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-galactopyranosyl-(1 \rightarrow 3)[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucuronopyranoside] = 2314
 8*b*-Tigloyloxy-14-chloro-2*b*,10*a*-dihydroxy-1*aH*,5*aH*,6*bH*,7*aH*-guai-3,11(13)-dien-6,12-olide = 7571
 8*b*-Tigloyloxy-14-chloro-3*a*,4*a*-epoxy-2*b*,10-dihydroxy-1*aH*,5*aH*,6*bH*,7*aH*-guai-11(13)-en-6,12-olide = 7574
 3'(*R*)-Tigloyloxy-4'-keto-3',4'-dihydroseselin = 18286
 3*a*-Tigloyloxytropane = 21372
 13-*O*-Tigloylphorbol-20-(9*Z*,12*Z*-octadecadienoate) = 21381
 22-Tigloylprotoaescigenin 3-*O*-[β -*D*-glucopyranosyl(1 \rightarrow 2)][β -*D*-glucopyranosyl(1 \rightarrow 4)]- β -*D*-glucopyranosiduronic acid = 7363
 21-*O*-Tigloyltheasapogenol E 3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)[β -*D*-xylopyranosyl(1 \rightarrow 2)- α -*L*-arabinopyranosyl(1 \rightarrow 3)]- β -*D*-glucopyranosiduronic acid = 21288
 Tigogenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)[β -*D*-glucopyranosyl-(1 \rightarrow 3)](6-*O*-acetyl- β -*D*-glucopyranosyl)-(1 \rightarrow 4)- β -*D*-galactopyranoside = 13329
 Tigogenin-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 13326
 Tigogenin 3-*O*- β -*D*-Glucopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 17612
 Tigogenin 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl-(1 \rightarrow 2)-[β -*D*-glucopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 17611
 6*b*,15*b*-Dihydroxy-3*a*,20-epoxy-*ent*-kaur-16-en-1,7-dione = 12589
 Timosaponin F = 20217
 Timosaponin G = 20209
 Timosaponin B₁ = 1175
 Timosaponin F = 1176
 Timosaponin G = 1177
 Tinosporin = 3939
 Tirotundin = 20611
 Tirucalla-8,24-diene-3*b*-ol-7-one = 6939
 β -Tocopherol = 22559
 γ -Tocopherol = 22561
 δ -Tocopherol = 22560
 Toddaline = 3498
 Toddasin = 14824

- Toluene = 14155
Toluol = 14155
Tomatin = 21435
 α -Tomatine = 21435
Toralactone 9-gentiobioside = 8649
Tormentic acid = 6178
Tormentic acid β -D-glucopyranosyl ester = 18916
2-(2-[3-Tormylindolyl])-(3H)-quinazolin-4-one = 2569
Torquatone in *Eucalyptus torquata* var. *grandiflora* = 11745
Torreyol = 2858
Toruogenin = 21469
Tovophyllin B = 6629
Toxyloxanthone A = 21503
Trametenolic acid B = 21502
Trametenolic acid 21-O- β -D-glucopyranoside = 7874
Triacanthin = 21511
6,14 α ,17(R)-Triacetoxo-5 α -(2-acetoxoacetoxo)-3 β -benzoyloxy-15 β -hydroxy-seget-8(12)-en-9-one = 19657
5 α ,8 α ,15 β -Triacetoxo-3 α -benzoyloxy-4 α -hydroxy-9,14-dioxo-13 β H-jatropha-6(17),11E-diene = 7614
3 β ,9 α ,15 β -Triacetoxo-7 β -benzoyloxy-14-oxojatropha-5E,12E-diene = 18170
3 β ,9 α ,15 β -Triacetoxo-7 β -butyroloxy-14-oxojatropha-5E,12E-diene = 18171
2 α ,7 β ,13 α -Triacetoxo-5 α ,10 β -dihydroxy-9-keto-2(3 \rightarrow 20)-abeo-taxane = 20870
6S-[3S,5R,6S-(Triacetoxo)-1Z-heptenyl]-5S-acetoxo-5,6-dihydro-2H-pyran-2-one = 16751
6S-[3S,5R,6S-(triacetoxo)-1Z-heptenyl]-5S-acetoxo-4R-methoxy-3,4,5,6-tetrahydro-4Hpyran-2-one = 16752
 β ,11 α ,15 β -Triacetoxo-7 β -hydroxy-7 α ,20-epoxy-entkaur-16-ene = 11400
(12S)-6 α ,12,19-Triacetoxo-1 β -hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide = 795
(12S)-1 β ,6 α ,19-Triacetoxo-12-hydroxy-4,18-epoxyneoclerod-13(14)-en-15,16-olide = 796
[2'Z,5(1')Z]5-(4'S,6'R,7'S-triacetoxo-2-octenylidene)-2(5H)-furanone = 16753
Triacetyl-5-decinnamoyltaxicin I = 10739
2 α ,7 β ,9 α -Triacetyl-2 α ,7 β -dibenzoyl-10 β -debenzoyltaxayuntin = 20759
2,10,13-Triacetyl-4(20),11-taxadiene-2,5,7,9,10,13-hexol = 20749
n-Triacantanoic acid = 13687
10,12,10'-Trichloroisoplagiochin C = 2181
Trichodonin = 21572
Tricholein = 17435
7 β ,9 α ,10 β -Trideacetyl-1 β -hydroxybaccatin I = 20823
Tridecane = 21610
5-Tridecyl-1,3-benzenediol = 8997
1,3,4-Tridehydrofangchinolium = 7754
rel-(7 α ,7 α ,8 α ,8' α ,7'' α ,8'' β)-3',7'':7,9':7,9-Triepoxy-4'8"-oxy-8,8'-sesquieolignan-3,3',4,4',9"-pentaol and rel-(7 α ,7 α ,8 α ,8' α ,7'' β ,8'' α)-3',7'':7,9':7,9-Triepoxy-4'8"-oxy-8,8'-sesqui-neolignan-3,3',4,4',9"-pentaol) = 11612
rel-((7 α ,7 α ,8 α ,8' α ,7'' α ,8'' β)-4',7'':7,9':7,9-Triepoxy-3',8"-oxy-8,8'-sesquieolignan-3,3',4,4',9"-pentaol and rel-(7 α ,7 α ,8 α ,8' α ,7'' β ,8'' α)-4',7'':7,9':7,9-Triepoxy-3',8"-oxy-8,8'-sesquieolignan-3,3',4,4',9"-pentaol) = 17860
Trifolirhizin = 13282
1,2,6-Tri-O-galloyl-3,4(R)-hexahydroxydiphenyl- β -D-glucose = 3418
3-(4,7,8-Trihydroxydibenzo-[b,f]oxepin-1-yl)acrylic acid = 21479
rel-(8R,10R,20S)-8,10,20-Trihydroxy-9(10 \rightarrow 20)-abeo-abieta-9,13-dien-12-one = 19429
1 α ,11 β ,16-Trihydroxy-3 β -acetoxo-ent-abieta-7,15(17)-dien-6-one = 616
7 β ,14 β ,15 β -Trihydroxy-1 α -acetoxo-7 α ,20-epoxy-ent-kaurane = 6793
7 β ,13 α ,15 β -Trihydroxy-1 α -acetoxo-7 α ,20-epoxy-ent-kaur-16-ene = 6791
7 β ,14 β ,15 β -Trihydroxy-1 α -acetoxo-7 α ,20-epoxy-ent-kaur-16-ene = 6792
1 α ,7 β ,13 α -Trihydroxy-11 β -acetoxo-7 α ,20-epoxy-ent-kaur-16-en-15-one = 6789
3 β ,11 β ,15 β -Trihydroxy-6 α -acetoxo-ent-kaur-16-ene = 13699
1 α ,7 α ,14 β -Trihydroxy-12 α -acetoxo-ent-kaur-16-en-15-one = 7675
1 α ,7 α ,14 β -Trihydroxy-20-acetoxo-ent-kaur-16-en-15-one = 9362
cis-5 α -H,3 β ,14 β ,17 β -Trihydroxy-12 β -O-acetyl-20-O-benzoyl-pregnane = 6603
3 β ,13 β ,22 α -Trihydroxy-16 α -acetyloxy-oleanane-28-oic acid 3-O-[β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyraosyl]-22-O- β -D-glucopyranoside = 3129
3 α ,14 β ,17-Trihydroxy-18-alent-abieta-7(8),15(16)-diene = 6794
10 β ,12,14-Trihydroxyalloaromadendrane 14-O- β -D-glucopyranoside = 5122
5,7,4'-Trihydroxy-6-C-arabinoside-8-C-glucoside flavone = 11697
1,3,5-Trihydroxybenzene = 17174
1,3,5-Trihydroxybenzene 1-O- β -D-glucoside = 17171
3,4,5-Trihydroxybenzoic acid = 8095
4,5,7-Trihydroxy-1,8-bis(4-hydroxybenzyl)-3-methoxy-6-phenyl-9,10-dihydrophenanthrene = 19931
1 α ,6 β ,15 β -Trihydroxy-6,7-B-seco-ent-kaur-16-en-6,20-epoxy-7,20- δ -olide = 18480
4,2',4'-Trihydroxychalcone = 11504
(22S,25S)-16 β ,22,26-Trihydroxycholest-4-en-3-one 16-O-[6-O-acetyl- β -D-glucopyranosyl]-(1 \rightarrow 3)- β -D-xylopyranoside] = 16878
(22S,25S)-16 β ,22,26-Trihydroxycholest-4-en-3-one 16-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside = 16877
3 α ,7 α ,12 α -Trihydroxy coprostanic acid = 4031
3,4,5-Trihydroxy-1-cyclohexene-1-carboxylic acid = 19805
3 β ,6 α ,12 β -Trihydroxy-20(22),24-dammardiene-6-O- α -L-rhamnopyranosyl(1 \rightarrow 2)-O- β -D-glucopyranoside = 8411
3 β ,6 α ,12 β -Trihydroxy-20(22),24-dammar-20(H),24-diene-6-O- α -L-rhamnopyranosyl(1 \rightarrow 2)-O- β -D-glucopyranoside = 8415
3 β ,6 α ,20(S)-Trihydroxy-dammar-24-ene-12-one 20-O- β -D-glucopyranoside = 8443
1 α ,11 β ,15 β -Trihydroxy-3 β ,6 α -diacetoxo-ent-kaur-16-ene = 13706
1 α ,11 β ,15 β -Trihydroxy-3 β ,7 β -diacetoxo-ent-kaur-16-ene = 609
3 β ,11 β ,15 β -Trihydroxy-1 α ,7 β -diacetoxo-ent-kaur-16-ene = 612
3 β ,11 β ,15 β -Trihydroxy-6 α ,7 β -diacetoxo-ent-kaur-16-ene = 13703
1 α ,6 α ,11 β -Trihydroxy-3 β ,7 β -diacetoxo-ent-kaur-16-en-15-one = 613
Trihydroxydiacetoxytaxadiene = 21705
(3R)-7,2',4'-Trihydroxy-6,8-di(γ , γ -dimethylallyl)isoflavan = 7356
(\pm)-7,2',4'-Trihydroxy-8,3'-di(γ , γ -dimethylallyl)isoflavanone = 7354
2,5,8-Trihydroxy-1,3-dimethoxyanthraquinone = 18873
2',4'',2'''-Trihydroxy-4',4'''-dimethoxy-4-O-5'''-bichalcone = 18820
3,5,7-Trihydroxy-1,2-dimethoxy-9,10-dihydrophenanthrene = 3890
5,3,3'-Trihydroxy-7,4'-dimethoxyflavanone = 6338
3,5,3'-Trihydroxy-7,2'-dimethoxyflavone = 11163
3,5,3'-Trihydroxy-7,4'-dimethoxyflavone = 16092
3,7,4'-Trihydroxy-3',5'-dimethoxyflavone = 12567
5,7,2'-Trihydroxy-3,6-dimethoxyflavone = 11160
5,7,4'-Trihydroxy-3',5'-dimethoxyl-8-prenylflavone = 2144
2,6,7-Trihydroxy-1,8-dimethoxy-3-methyl-9(10H)-anthracenone-10-oxyde-

- canoate = 12236
- 1,4,7-Trihydroxy-6,8-dimethoxy-1-methylanthraquinone = 18869
- 3,5,7-Trihydroxy-1,2-dimethoxyphenanthrene = 3891
- 1,3,6-Trihydroxy-2,7-dimethoxyxanthone = 16109
- 1,3,7-Trihydroxy-2,8-dimethoxyxanthone = 19645
- 7,2',4'-Trihydroxy-(3,3-dimethylallyl)isoflavone = 7637
- 1,3,5-Trihydroxy-4-(γ,γ -dimethylallyl)acridone = 21763
- 5,7,2'-Trihydroxy-6-(3,3-dimethylallyl)-[(6'',6''-dimethylpyrano(2'',3'':4',5'))]-isoflavone = 12292
- 5,7,4'-Trihydroxy-8-(1,1-dimethylallyl)flavanone = 22178
- 5,2',4'-Trihydroxy-6-(γ,γ -dimethylallyl)-3''-hydroxy-2''',2''-dimethyldihydropyrano[5''',6''':8,7]isoflavone = 7319
- 5b,7,9-Trihydroxy-2,2-dimethyl-8-(3-methyl-2-butenyl)-5b,11a-dihydro-2H,6H-chromeno[6,7':4,5]furo[2,3b]chromen-6-one = 12295
- 1,3,6-Trihydroxydimethylpyrano-4-[(2E)-3,7-dimethylocta-2,6-dienyl]-xanthone = 22525
- 1,7,8-Trihydroxy-2,2-dimethylpyrano[5',6': 3,4]xanthone = 8555
- (7 β ,15 α ,23S,24E)-7,15,23-Trihydroxy-3,11-dioxolanosta-8,24-dien-26-oic acid = 8177
- 3,7,23-Trihydroxy-11,15-dioxolanosta-8,24-dien-26-oic acid = 8179
- 5,7,4'-Trihydroxy-6,8-diprenylisoflavone = 6496
- 5,7,4'-Trihydroxy-6,5'-diprenylisoflavone = 13088
- 11 β ,13 α ,15 α -Trihydroxy-entkaur-16-en-3 α - β -D-glucoside = 11399
- 3 α ,11 β ,13 α -Trihydroxy-entkaur-16-en-15-one = 11397
- 2 α ,3 α ,18-Trihydroxy-3 β ,20-epoxybeyer-15-ene = 7690
- 2,20(S),22-Trihydroxy-16 α ,23(S)-epoxycucurbita-5,24-diene-3,11-dione 2-O- β -glucopyranoside = 12216
- 2,20S,24 ζ -Trihydroxy-16 α ,23R-epoxycucurbita-5-ene-3,11-dione 2-O- α -rhamnopyranosyl-(1 \rightarrow 2)- β -glucopyranoside = 12217
- 3 β ,6 α ,20(S)-Trihydroxy-12 β ,23-epoxy-dammar-24-ene 20-O- β -D-glucopyranoside = 8444
- 3 β ,20,23-Trihydroxy-16,30-epoxy-dammar-24-ene-23-O- β -D-glucopyranosyl-3-O- β -D-xylopyranosyl(1 \rightarrow 2)-[β -D-glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl(1 \rightarrow 3)-[α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside = 11915
- 6 β ,12 α ,15 β -Trihydroxy-7 α ,20-epoxy-ent-kaur-16-ene = 16178
- 1 β ,6 β ,7 β -Trihydroxy-7 α ,20-epoxy-ent-kaur-16-en-15-one = 22793
- 3 β ,16 α ,29-Trihydroxy-13,28-epoxy-oleanane-3-O- β -D-glucopyranosyl-(1 \rightarrow 2)-(6-methyl ester)- β -D-glucuronopyranoside = 4699
- 2 α ,3 α ,8 β -Trihydroxy-9 α -(11)-epoxypicrotoxan-3(15 α)-olide 8-O- β -D-glucopyranoside = 5118
- (3 α ,5 β ,7 α ,12 α ,24 ζ)-3,7,12-Trihydroxy-ergost-22-en-28-oic acid = 21693
- 1 β ,4 β ,6 β -Trihydroxy-cis-eudesmane-6-O- β -D-glucopyranoside = 16150
- 5,7,4'-Trihydroxyflavanone = 15279
- 7,3',4'-Trihydroxyflavanone = 2785
- 5,7,4'-Trihydroxyflavone 6-C-[α -rhamnopyranosyl-(1 \rightarrow 6)]- β -glucopyranoside = 6623
- 5,7,4'-Trihydroxy-6-[1-hydroxy-2-methylbuten-2-yl]isoflavone = 11434
- {5,7,5'-Trihydroxy-6-(3-hydroxy-3-methylbutyl)-8-(γ,γ -dimethylallyl)-[6''',6''':dimethylpyrano(2''',3''':4',3'')]-coumaronochromone = 7889
- 5,7,2'-Trihydroxy-6-(3-hydroxy-3-methylbutyl)-[(6'',6''-dimethylpyrano(2'',3'':4',5'))]-isoflavone = 12293
- 1,3,7-Trihydroxy-8-(3-hydroxy-3-methylbutyl)xanthone = 15577
- 2',4',7-Trihydroxyisoflavone = 9189
- 3 β ,15 ζ ,16-trihydroxy isopimaric acid = 22739
- 1 α ,7 α ,14 β -Trihydroxy-ent-kaur-16-en-15-one = 12125
- (7S,8R)-3,9,9'-Trihydroxyl-3-methoxyl-7,8-dihydrobenzofunan-1'-propanol-neoligan-4-O- α -L-rhamnopyranoside = 13584
- (7S,8R)3,4,9'-Trihydroxyl-3-methoxyl-7,8-dihydrobenzofunan-1'-propanol-neoligan-9-O- α -L-rhamnopyranoside = 13583
- (1S,3S,5R,6S,9R)-3,9,12-Trihydroxymegastigmane 3-O- β -D-glucopyranoside = 22127
- (3S,5R,6S,9S)-3,6,9-Trihydroxymegastigman-7-ene 3-O- β -D-glucopyranoside = 22125
- (3S,4R,9R)-3,4,6-Trihydroxymegastigman-5-ene 3-O- β -D-glucopyranoside = 22128
- (3S,5R,6S,9S)-3,6,9-Trihydroxymegastigman-7-ene 9-O- β -D-glucopyranoside = 22126
- (3S,4R,9 ζ)-3,4,9-Trihydroxymegastigman-5-ene 3-O-primeveroside = 17526
- 1,3,6-Trihydroxy-7-methoxy-2-(4-acetoxy-3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)xanthone = 4199
- 1,8,10-Trihydroxy-9-methoxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one = 11166
- 1,3,6-Trihydroxy-7-methoxy-2,5-bis(3-methyl-2-butenyl)-8-(3,7-dimethyl-2,6-octadienyl)xanthone = 4195
- 1,6,7-Trihydroxy-3-methoxy-2,8-bis(3-methyl-2-butenyl)xanthone = 6627
- 5,3',5'-Trihydroxy-7-methoxy dihydroflavone = 2521
- 5,3',4'-Trihydroxy-7-methoxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone = 22184
- (2S)-2',5,6'-Trihydroxy-7-methoxyflavanone = 19580
- (2S)-2',5,6'-trihydroxy-7-methoxyflavanone-2'-O- β -D-glucopyranoside = 19581
- 5,7,2'-Trihydroxy-8-methoxyflavone = 19588
- 5,7,3'-Trihydroxy-4'-methoxyflavone = 6452
- 5,7,4'-Trihydroxy-8-methoxyflavone = 10829
- 5,7,4'-Trihydroxy-3'-methoxyisoflavone = 14638
- 3,4',5-Trihydroxy-7-methoxy-8-isopentenylflavone = 11222
- 3,5,7-Trihydroxy-4'-methoxyl-8-prenylflavone-3-O- α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside = 2143
- 1,5,6-Trihydroxy-3-methoxy-2-(3-methyl-2-butenyl)-4-(1,1-dimethylallyl)xanthone = 15578
- 5,7,2'-Trihydroxy-4'-methoxy-5'-(3"-methylbut-2"-enyl)isoflavanone = 13265
- 5,2',4'-Trihydroxy-7-methoxy-6-(3-methylbut-2-enyl)isoflavone = 14568
- 3 β ,16 β ,28-Trihydroxy-11- α - β -methoxy-olean-12-ene-3-O- β -D-glucosyl-(1 \rightarrow 3)- β -D-fucoside = 19162
- 4',5,7-Trihydroxy-3-methoxy-6-prenylflavone = 21451
- (7S,8R)-3',4,9-Trihydroxy-4-methoxy-9-O-shikimoyl-7,8-dihydrobenzofuran-1'-propylneoligan = 13582
- 1,2,8-Trihydroxy-6-methoxyxanthone = 20510
- 1,3,8-Trihydroxy-6-methylanthraquinone = 6776
- 5,7,4'-Trihydroxy-8-(3''-methylbut-2''-enyl)-6-(2''-hydroxy-3''-methylbut-3''enyl) isoflavone = 11415
- 6,8,12-Trihydroxy-7-(3-methyl-2-butenyl)-2-methyl-(4-methyl-3-pentenyl)pyrano-(2',3':7,8)xanthone = 4198
- 2,5,8-Trihydroxy-3-(3-methyl-2-butenyl)-1,4-naphthoquinone = 10709
- 1,8,11-Trihydroxy-9,10-methylenedioxy-[1]benzopyrano-[3,2-c][2]-benzopyran-7(5H)-one = 11170
- 3 α ,4 β ,7 β -Trihydroxy-4 α -methylergosta-8,24(28)-dien-11-on-26-oic acid = 1351
- 1,2,3-Trihydroxy-6-methyl-8-methoxyanthraquinone = 7660
- 1,3,5-Trihydroxy-2-methyl-6-methoxyanthraquinone = 12237
- 5,7,10-Trihydroxy-2-methyl-2-(4-methylpent-3-enyl)[2H,6H]pyrano[3,2-b]xanthen-6-one = 20019
- 1,5,8-Trihydroxy-6'-methyl-6'-(4-methylpent-3-enyl)-pyrano[2',3':3,4]xanth-

- one = 2135
- 3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 23-*O*- β -*D*-fucopyranosyl-(1 \rightarrow 2)-[α -*L*-arabinopyranosyl-(1 \rightarrow 3)]- β -*D*-glucopyranoside = 7724
- 3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 24-*O*- β -*D*-glucopyranoside = 7631
- 3 β ,20 α ,24-Trihydroxy-29-norolean-12-en-28-oic acid 24-*O*-[α -*L*-rhamnopyranosyl(1 \rightarrow 4)]-6'-*O*-acetyl- β -*D*-glucopyranoside = 7632
- 3 β ,23,28-Trihydroxyoleana-11,13(18)-dien-3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)- β -*D*-fucopyranoside = 19152
- 3 β ,16 α ,24-Trihydroxyoleana-12-en-28-oic acid-3-*O*-(6'-butyryl)- β -*D*-glucopyranoside = 22622
- 2,3,27-Trihydroxy-12-oleanene-23,28-dioic acid 3-*O*- β -*D*-glucopyranoside, 28-*O*-[β -*D*-galactopyranosyl-(1 \rightarrow 4)]- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[3,4-dimethoxycinnamoyl-(1 \rightarrow 4)]- α -*L*-fucopyranosyl ester = 19715
- 2 α ,3 α ,24-Trihydroxy-olean-12-ene-28-oic acid-28-*O*- β -*D*-glucopyranosyl ester = 22621
- 3 β ,16 α ,28-Trihydroxy-olean-12-en-3-*O*-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- β -*D*-glucuronopyranosyl]-28-*O*- β -*D*-glucuronopyranoside = 4700
- 1 α ,3 β ,23-Trihydroxy-olean-12-en-29-oate-23-*O*- α -*L*-3,4-acetyl-29-dirhamnopyranoside = 10228
- 1 α ,3 β ,23-Trihydroxy-olean-12-en-29-oate-23-*O*- α -*L*-4-acetyl-rhamnopyranoside = 10226
- 1 α ,3 β ,23-Trihydroxy-olean-12-en-29-oate-23-*O*- α -*L*-3,4-diacetyl-rhamnopyranoside = 9741
- 1 α ,3 β ,23-Trihydroxy-olean-12-en-29-oate-23-*O*- α -1,4-acetyl-29-dirhamnopyranoside = 10227
- 2 α ,3 β ,19 α -Trihydroxy-12-oleanen-28-oic acid = 1734
- 3 β ,21 α ,24-Trihydroxy-olean-12-en-30-oic acid = 8858
- 2 α ,3 α ,19 α -Trihydroxy-olean-12-en-28-oic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 18851
- 2 α ,3 β ,23-Trihydroxyolean-12-en-28-oic acid-3-*O*- β -*D*-glucopyranosyl-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 20287
- 3 β ,6 β ,23-Trihydroxyolean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 3397
- 3 β ,15 α ,23-Trihydroxy-olean-12-en-16-one = 7273
- 1-(2,4,6-Trihydroxyphenyl)-11-(2,6-dihydroxyphenyl)undecan-1-one = 1648
- 2',4',6'-Trihydroxyphenyl-(26Z)-dotriacontene-1-one = 20962
- 1-(2,4,6-Trihydroxyphenyl)-11-(2-hydroxyphenyl)undecan-1-one = 1649
- 2',4',6'-Trihydroxyphenyl-(24Z)-triacontene-1-one = 20961
- 6 α ,10,12-Trihydroxypicrotoxane 10-*O*- β -*D*-glucopyranoside = 5121
- 2 α ,3 α ,12-Trihydroxypicrotoxane-3(15 α)-olid-11-oic acid 2-*O*- β -*D*-glucopyranoside = 5117
- ent-(15R),16,19-Trihydroxypimar-8(14)-ene 19-*O*- β -*D*-glucopyranoside = 18176
- 1 α ,2 β ,3 α -Trihydroxypregna-4,7,16-trien-12,20-dione = 21003
- 2 β ,3 α ,12 β -Trihydroxypregna-4,7,16-trien-20-one = 20386
- 3 β ,8 β ,14 β -Trihydroxypregna-5-en-20-one = 7992
- 2',4,4'-Trihydroxy-3-prenylchalcone = 12751
- 5,7,4'-Trihydroxy-6-prenyl-isoflavone = 22667
- 5,7,4'-Trihydroxy-8-prenylisoflavone = 13107
- 1,4,8-Trihydroxy-2-prenylxanthone = 2136
- 2,6,8-Trihydroxy-purine = 22251
- 3 α ,21 β ,24-Trihydroxyserrat-14-en-16-one = 13177
- (5 α ,22R,23R,25S)-3 β ,23,27-Trihydroxyspirosolane = 11418
- (2 α ,3 β ,5 α ,25S)-2,3,27-Trihydroxyspirostane 3-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*-[α -*L*-rhamnopyranosyl-(1 \rightarrow 4)]- β -*D*-glucopyranoside = 22079
- (23S,25S)-3 β ,23,27-Trihydroxyspirost-5-en-12-one 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-fucopyranoside = 17645
- 3,5,4'-Trihydroxystilbene = 18643
- 3,5,4'-Trihydroxystilbene-4'-(6"-galloyl)-glucoside = 18648
- 3,5,4'-Trihydroxystilbene-4'-glucoside = 18650
- 3,6,7-Trihydroxy-4,5,6,7-tetrahydro-3-butyl-phthalide = 2794
- (4S)-4,5,8-Trihydroxy- α -tetralone 4-*O*- β -*D*-glucopyranoside = 11901
- (4S)-4,5,8-Trihydroxy- α -tetralone 5-*O*- β -*D*-glucopyranoside = 11902
- 1 β ,7 β ,9 α -Trihydroxy-5 α ,10 β ,13 α -triacetoxytaxa-4(20),11-diene = 20756
- 4,4',6'-Trihydroxy-2',3',5'-tribenzoyloxy [1,1':4',1"-terphenyl] = 21303
- 9,4',9'-Trihydroxy 4,5,3'-trimethoxy aryltetralin lignan = 19456
- 5,4',5"-Trihydroxy-7,7",4"-trimethoxy-[3 \rightarrow 6"]-biflavone = 20315
- 3,5,3'-Trihydroxy-6,7,4'-trimethoxy flavone = 7583
- 5,2',4'-Trihydroxy-6,7,5'-trimethoxy flavone = 1653
- 5,2',6'-Trihydroxy-3,6,7-trimethoxyflavone = 11162
- 5,6,3'-Trihydroxy-3,7,4'-trimethoxyflavone = 16440
- 5,7,3'-Trihydroxy-6,4',5'-trimethoxyisoflavone = 11154
- 1,3,8-Trihydroxy-2,4,5-tris-(3,3-dimethylallyl)-6-methylanthrone = 9241
- 1,3,8-Trihydroxy-4,5,7-tris-(3,3-dimethylallyl)-6-methyl-anthrone = 9240
- 3 β ,21 β ,22 β -Trihydroxyurs-12-en-28-al = 4043
- 2 β ,3 β ,19 α -Trihydroxy-urs-12-en-24,28-dioic acid-24-*O*- β -*D*-glucopyranosyl-28-*O*- β -*D*-glucopyranosyl diester = 20290
- 3 β ,11 α ,21 α -Trihydroxyurs-12-ene = 19220
- 2 α ,3 α ,19 α -Trihydroxyurs-12-en-28-oic acid = 7657
- 2 α ,3 β ,19 α -Trihydroxyurs-12-en-28-oic acid 28- β -*D*-glucopyranosyl ester = 18916
- 2 α ,3 β ,19 α -Trihydroxy-urs-12-en-28-oic acid-3-*O*- β -*D*-glucopyranosyl-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester = 20289
- 2 α ,3 β ,23-Trihydroxy-urs-12-en-28-oic acid-3-*O*- β -*D*-glucopyranosyl-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosylester = 20288
- 2 α ,3 β ,23-Trihydroxyurs-12-en-28-oic acid *O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 1854
- 11 α ,16 α ,28-trihydroxyurs-12-en-3 β -yl α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-fucopyranoside = 18946
- 11 α ,16 α ,28-trihydroxyurs-12-en-3 β -yl β -*D*-xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-fucopyranoside = 18945
- 1,3,7-Trihydroxyxanthone = 8306
- 1,5,6-Trihydroxyxanthone = 13809
- Trilinoleyl glyceride = 8816
- Trillin = 6443
- Trilloside A = 5040
- 1,2,3-Trimethoxy-10-acetoxymethylacridone = 21420
- 1,2,3-Trimethoxyacridone = 21419
- 5,7,4'-Trimethoxyapigenin = 21913
- N*-(3',4',5'-Trimethoxycinnamoyl)-*A*³-pyridin-2-one = 17472
- N*-(2,4,5-Trimethoxycinnamoyl)pyrrolidine = 19370
- 3,7,8-Trimethoxycoumarin = 19467
- 6,6',7-Trimethoxy-2,2'-dimethyloxyacanthan-12'-ol = 16439
- 7,2',6'-Trimethoxy-6",6"-dimethylpyrano-(3',4':2",3")-chalcone = 14075
- 3 β ,4 β ,5-Trimethoxy-6",6"-dimethyl-2*H*-pyrano-(2",3":7,6)-flavan = 14105
- 5,7,4'-Trimethoxyflavanone = 15285

(7*S*,8*S*,7'*S*,8'*R*)-3,4,3'-Trimethoxy-4'-hydroxy-7,7'-epoxy lignan = 8037
 1,2,3-Trimethoxy-10-methoxymethylacridone = 21422
 1,2,4-Trimethoxy-5-(*E*-3'-methyloxiranyl) benzene = 7056
 1,2,4-Trimethoxyphenyl-5-aldehyde = 1840
 3,4,5-Trimethoxyphenyl-1-*O*- β -*D*-(5-*O*-syringoyl)-apiofuranosyl-(1 \rightarrow 2)- β -*D*-glucopyranoside = 855
 3,4,5-Trimethoxyphenyl-*O*-6'-*O*-vanilloyl- β -*D*-glucopyranoside = 21035
 2,4,5-Trimethoxypropenyl benzene = 1835
 3,4,5-Trimethoxytoluene = 21919
 3,4,5-Trimethoxy-xanthone-1-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-xylopyranoside = 22388
 1,7,7-Trimethyl-acetate-endobicyclo[2.2.1]heptan-2-ol = 336
 7,4',4''-Tri-*O*-methyl amentoflavone = 19514
N-Trimethylamine = 21939
 1,3,3-Trimethylbicyclo[2.2.1]heptan-2-one = 7751
cis-1,2,2-Trimethyl-1,3-cyclopentanedicarboxylic acid = 3051
 1,3,7-Trimethyl-2,6-dioxapurine = 2892
 2,6,10-Trimethyl-2,6,9,11-dodecatetraenal = 19927
 3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol = 15500
 3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol = 7734
 2,6,11-Trimethyl-dodesa-2,6,10-triene = 20666
 3,3',4'-Tri-*O*-methyl ellagic acid = 21955
 1,7,7-Trimethyl endo-bicyclo[2.2.1]heptan-2-ol = 2550
 3-*O*-(1'',8'',14''-Trimethylhexadecanyl)naringenin = 15124
 3,5,5-Trimethyl-2-hydroxy-1,4-cyclohexadion-2-ene = 10807
 6-*N*-Trimethyl-*L*-lysine betaine = 12457
 1,3,3-Trimethyl-7-(5-methylcyclopenta-1,4-dien-1-yl)-2-oxabicyclo[2.2,1]heptane = 20886
 2,2,6-Trimethyl-3-[(*E*)(2-methylcyclopenta-2-en-1-ylidene)methyl]-3,4-dihydro-2*H*-pyran = 20888
 1,1,3a-Trimethyl-6-methylene-1,1a,2,3,3a,3b,4,5,6,6b-decahydrocyclopenta[2,3]cyclopropa-[1,2-*a*]cyclopropa[*c*]-benzene = 15143
 2,2,9-Trimethyl-6-methylene-3,4,5,6,6a,7-hexahydro-2*H*-3,9a-methanocyclopent[*b*]oxocine = 9040
 1,1,4-Trimethyl-7-methylene-1a,2,3,3,5,6,7,7a,7b-octahydro-1*H*-cyclopropa[*e*]azulene = 1755
 1,1,7-Trimethyl-4-methylene-1a,2,3,4,4a,5,6,7b-octahydro-1*H*-cyclopropa[*e*]azulene = 1757
 1,1,3a-Trimethyl-6-methylene-5-oxo-1,1a,2,3,3a,3b,4,-5,6,6b-decahydrocyclopenta[2,3]cyclopropa[1,2-*a*]cyclopropa[*c*]benzene = 15144
 3,4,5-Trimethyl-2-(methylsulfinyloxymethyl) thiophene = 7850
 1,3,3-Trimethyl-2-norbornanol = 7752
 1,3,3-Trimethyl-2-oxabicyclo[2.2.2]octane = 3689
 4-(2,2,6-Trimethyl-1-oxaspiro[4,4]non-6-en-3-yl)-butan-2-one = 20887
 4,4,14 α -Trimethyl-24-oxo-5 α -chol-8-en-21-oic acid dimethylacetal = 8575
 (3a*S*,5*R*,7a*R*)-4,4,7a-Trimethyl-2-oxo-2,3,3a,4,5,7a-hexahydrobenzo[*b*]furan-5-yl 3,4-dimethyl-3-pentenoate = 20967
 2,2,4-Trimethyl-6-(1-oxo-3-phenylprop-2-enyl)cyclohexane-1,3,5-trione = 3473
 6,10,14-Trimethyl-pentadecan-2-one = 9500
 3,6,7-Trimethylquercetagenin = 3624
 3,6,4'-Tri-*O*-methylquercetagenin-7-*O*- β -*D*-glucopyranoside = 3389
 3,5,12a-Trimethyl-2,5,5a,12a-tetrahydro-1*H*-naphtho[2',3':4,5]furo[2,3-*b*]

azepin-2-one = 6598
 3,4,5-Trimethyl-2-thiophenecarboxylic acid = 7849
 (1*S*,9*S*)-4 α ,11,11-Trimethyl-2 α ,5 α ,6 β -trihydroxytricyclo[5,4,0,0^{2,5}]undec-3-en-7-one = 7737
 (*rel*-5*S*,6*S*,8*R*,9*R*,10*S*)-14,15,16-Trinor-13,9-labdanolide = 22578
 Triox = 21940
 Tripterifordine = 21990
 Tripterine = 3368
 Tripterygic acid A = 22025
 Triptoditerpenic acid B = 21993
 Triptophenolide = 10899
 Triptophenolide methyl ether = 10900
 Trisdesaspidin = 22032
 Trisphaerine = 9547
 Trispherine = 9547
 Tropaeolin = 2298
 3-Tropanol = 22050
 Tsuzuic acid = 21045
 Tubeimoside I = 22072
 Tubeimoside II = 22073
 Tubeimoside III = 22074
 Tulipalin A = 22102
 β -Turmerone = 22123
 Tussilaglin = 22144

U

Ubiquitous 1,2-dilinolenoyl-3-galactopyranosylglycerol = 14924
 Umbellatine = 2303
 Umbelliferone 7-*O*- β -*D*-glucopyranoside = 20003
 Uncarine A = 11426
 Uncarine C = 18114
 Uncarine E = 11636
 Undeca-2*E*,4*Z*-dien-7,9-dienoic acid isobutylamide = 15445
 Undecanol = 22226
 Undecylenic acid = 22221
 Untriacontane = 9363
 (2*S*)-6-(1,4-Ureylenebutyl)-5,7-dihydroxyflavanone = 1541
 (2*S*)-8-(1,4-Ureylenebutyl)-5,7-dihydroxyflavanone = 11233
 5'-Uridylic acid = 22254
 Ursa-12-ene-11-one-3-ol octocosate = 22262
 12-Ursene-3 β ,27-diol = 15911
 Urs-12-en-3 β -ol = 1110
 β -Ursolic acid = 22270
 Usaramine = 15018
 Ushinsunine = 14829
 Usnic acid = 22282
 17 β -Uzarigenin-3-*O*- β -glucopyranosyl-(1 \rightarrow 6)- β -glucopyranosyl-(1 \rightarrow 4)- β -thevetopyranosyl-(1 \rightarrow 4)- β -cymaropyranoside = 7698

V

Valerianae alkaloid A = 10601
 Valerianol = 12375

Valeric acid = 16884
 Valeric aldehyde = 16876
 Valtrate = 22312
 Valtratum = 22312
 Vanillosmin = 7226
 6-Vanilloylcatalpol = 17345
 3-*O*-Vanillylceanothic acid = 10383
 Vasicine = 16770
L-Vasicinone = 22350
 VCR = 22497
 Veneniferin = 3416
 Venoterpine = 8291
 (–)-Veraguensin = 22383
 Veratric acid = 6201
 Verbascoside = 580
 Verbenalin = 4060
 Verticine = 16773
 Verticinone = 16774
 Vestitol[6→9ⁿ;7*O*→7^m]obtusquinone = 15353
 Vicenin 2 = 2455
 β-Vicianosyl-3-quercetin = 18327
 Viguistenin = 22475
 Vilmorrianine D = 19107
 Vincal leukoblastine = 22487
 Vincoside lactam = 22496
 Vindolidine = 22501
 7α,8α-*cis-e*-Viniferin = 22505
 Vinleurosine = 12734
 Vinrosidine = 12733
 1-Vinyl-4,8-dimethoxy-β-carboline = 12335
 Vinylformic acid = 578
 Vinyl sulfide = 6531
 Violanin = 15289
 Virolongin = 22528
 Viscidone = 416
 Viscidulin I = 16848
 Visnamine = 22552
 Vitamin A = 18656
 Vitamin B = 9458
 Vitamin B₂ = 18834
 Vitamin B₆ = 18261
 Vitamin B₇ = 2395
 Vitamin C = 1845
 Vitamin E = 21415
 Vitamin G = 18834
 Vitexicarpin = 3300
 Vitexin 7-methyl ether = 11724
 (+)-Vittatine = 4241
 Vladinol A = 13588
 (6*S*,7*E*,9*R*)-Vomifoliol-9-*O*-β-*D*-xylopyranosyl-(1→6)-*O*-β-*D*-glucopyranoside = 22617
 Vulgarin = 20730
 Vulpic acid = 22625

W

Wallichene = 9642
 Wallichienene = 15405
 Wallichinin = 22628
 Warabisterone = 17703
 Weedone = 4832
 (+)-Wikstromol = 15805
 (–)-Wikstromol = 15806
 Wikstrotoxin = 19902
 Withametelin = 4673
 Wogonin-7-*O*-glucoside = 22720
 Wuweizi alcohol B = 8906
 Wuweizichun A = 19473
 Wuweizi ester A = 8908
 Wuweizi ester B = 8907
 Wuweizisu A = 5213
 Wuweizisu B = 5178
 Wuweizisu C = 19497

X

Xanthalongin = 21444
 Xanthopurpurin = 18224
 Xanthoxilin N = 22777
 Xantofyl palmitate = 9290
 Xerophilusin H = 6785
 XH-I = 22767
 3β-*O*-[β-*D*-Xylopyranosyl(1→4)-[2-*O*-acetyl]-β-*D*-glucuronopyranosyl]-28-*O*-[β-*D*-glucopyranosyl]-morolic acid = 20539
 3-*O*-[β-*D*-Xylopyranosyl(1→4)-[2-*O*-acetyl]-β-*D*-glucuronopyranosyl]-28-*O*-[β-*D*-glucopyranosyl]-oleanolic acid = 20531
 3-*O*-[β-*D*-Xylopyranosyl(1→4)-[3-*O*-acetyl]-β-*D*-glucuronopyranosyl]-28-*O*-[β-*D*-glucopyranosyl]-oleanolic acid = 20530
 3-*O*-[β-*D*-Xylopyranosyl(1→2)-*α*-*L*-arabinopyranosyl(1→6)-2-acetamido-2-deoxy-β-*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2,6-dimethyl-6-*O*-(6-deoxy-β-*D*-glucopyranosyl)-2,7-octadienoyl]-6-deoxy-β-*D*-glucopyranosyl]-2,-7-octadienoyl}-acacic acid 28-*O*-β-*D*-glucopyranosyl(1→3)-*α*-*L*-arabinofuranosyl(1→4)]-*α*-*L*-rhamnopyranosyl(1→2)-β-*D*-glucopyranosyl ester = 11919
 3-*O*-[β-*D*-Xylopyranosyl(1→2)-*α*-*L*-arabinopyranosyl(1→6)-β-*D*-2-deoxy-2-acetamido-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2,6-dimethyl-6-*O*-(6-deoxy-β-*D*-glucopyranosyl)-2,7-octadienoyl]-β-*D*-quinovopyranosyl-2,7-octadienoyl]-acacic acid-28-*O*-β-*D*-glucopyranosyl(1→3)-[*α*-*L*-arabinofuranosyl(1→4)]-*α*-*L*-rhamnopyranosyl(1→2)-β-*D*-glucopyranosyl ester = 11921
 3-*O*-β-*D*-Xylopyranosyl-16β-*O*-*α*-*L*-arabinopyranosyl-6α,22β-dihydroxyhopane = 13007
 3-*O*-[β-*D*-Xylopyranosyl(1→2)-*α*-*L*-arabinopyranosyl(1→6)-β-*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-((6*S*)-2-*trans*-2,6-dimethyl-6-*O*-(6-deoxy-β-*D*-glucopyranosyl)-2,7-octadienoyl]-6-deoxy-β-*D*-glucopyranosyl]-2,7-octadienoyl]-acacic acid 28-*O*-β-*D*-glucopyranosyl(1→3)-*α*-*L*-arabinofuranosyl(1→4)]-*α*-*L*-rhamnopyranosyl(1→2)-β-*D*-glucopyranosyl ester = 11917

- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[(2-*O*-[(6*S*)-2-*trans*-2,6-dimethyl-6-*O*- β -*D*-quinovopyranosyl-2,7-octadienyl]- β -*D*-quinovopyranosyl-2,7-octadienyl)-acacic acid-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester = 11926
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-[(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-hydroxyl-2,7-octadienyl]-6-deoxy- β -*D*-glucopyranosyl]-2,7-octadienyl]-acacic acid 28-*O*- β -glucopyranosyl-(1 \rightarrow 3)- α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester = 11918
- 3-*O*-[β -Xylopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-6-*O*- β -glucopyranosyl-3 β ,6 α ,16 β ,24(*S*),25-pentahydroxycycloartane = 16068
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl-28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-rhamnopyranosyl-(1 \rightarrow 6)]- β -*D*-glucopyranosyl echinocystic acid = 8528
- 3-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 22957
- 3-*O*-[β -Xylopyranosyl-(1 \rightarrow 2)- α -arabinopyranosyl]-6-*O*- β -xylopyranosyl-3 β ,6 α ,16 β ,24(*S*),25-pentahydroxycycloartane = 16067
- (22*S*,25*S*)-16-*O*- β -*D*-Xylopyranosyl-5 α -cholestan-3 β ,16 β ,22,26-tetraol 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-galactopyranoside = 16881
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)-[2,3-*O*-diacetyl]- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20532
- 3-*O*- β -*D*-Xylopyranosyl-6,16-di-*O*- β -*D*-glucopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 β ,6 α ,16 β ,25-tetrol = 22048
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- α -*L*-fucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl]-21-*O*-{(6*S*)-2-*trans*-2-hydroxymethyl-6-methyl-6-*O*-[4-*O*-[(6*R*)-2-*trans*-2,6-dimethyl-6-*O*-(β -*D*-quinovopyranosyl)-2,7-octadienyl]- β -*D*-quinovopyranosyl-2,7-octadienyl]-acacic acid-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 3)-[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl ester = 11920
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)-[β -*D*-galactopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl gypsogenin = 16026
- 6-*C*-Xylopyranosyl-8-*C*-glucopyranosylapigenin = 22464
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4023
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl bayogenin 28-*O*- β -*D*-apiofuranosyl-(\rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[α -*L*-arabinopyranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylester = 4016
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl bayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosylester = 4015
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)-[β -*D*-xylopyranosyl-(1 \rightarrow 4)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4026
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosyl bayogenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4017
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4019
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylbayogenin 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4027
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-butyl- β -*D*-glucuronopyranosyl]oleanolic acid-28-*O*- β -*D*-glucopyranoside = 20619
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)]- β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl] oleanolic acid-28-*O*- β -*D*-glucopyranoside = 20618
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranoside]-saikogenin = 17959
- 3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)-[β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinopyranoside]-saikogenin G = 17960
- 6-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3 β ,6 α ,12 β ,25-tetrol = 22895
- 3-*O*-[α -*L*-Xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 4)]-[β -*D*-glucopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl-(1 \rightarrow 2)]- α -*L*-rhamnopyranosyl cyclamiretin A = 1627
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1 \rightarrow 4)- β -*D*-xylopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 15835
- 3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1 \rightarrow 5)- α -*L*-arabinofuranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 15841
- 3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl(1 \rightarrow 2)- β -*D*-glucopyranosyl-20(*S*)-protopanaxadiol 20-*O*- β -*D*-xylopyranosyl(1 \rightarrow 3)- β -*D*-glucopyranosyl(1 \rightarrow 6)- β -*D*-glucopyranoside = 15842
- 3-*O*- β -*D*-Xylopyranosyl-22-*O*- β -*D*-glucopyranosyl-16 β -hydroxyhopan-6-one = 13009
- 3-*O*-[*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl] medicagenic acid 28-*O*- β -*D*-xylopyranosyl-(1 \rightarrow 3)-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 734
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- β -*D*-galactopyranosyl-(1 \rightarrow 2)- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4022
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4020
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- β -*D*-glucopyranosylpolygalacic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-xylopyranosyl-(1 \rightarrow 4)-[β -*D*-apiofuranosyl-(1 \rightarrow 3)]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl ester = 4021
- 3-*O*-[β -*D*-Xylopyranosyl(1 \rightarrow 4)-[β -*D*-glucopyranosyl]-25*S*)-5 β -spirostan-3 β -ol = 1860
- 3-*O*-[*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl] 2 β ,3 β ,16 α ,21 β -tetrahydroxyolean-12-ene-23,28-dioic acid 21,28-lactone = 735
- 3-*O*-[*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl] 2 β ,3 β ,16 α -trihydroxyolean-12-ene-23,28-dioic acid (zanhic acid)28-*O*- β -*D*-apiofuranosyl-(1 \rightarrow 3)-*O*-[4-*O*-acetyl]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 728
- 3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyloleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19434
- 3-*O*-[*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl] zanhic acid 28-*O*- α -*L*-arabinopyranosyl-(1 \rightarrow 3)-*O*-[4-*O*-acetyl]- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-*O*- α -*L*-arabinopyranosyl ester = 730

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 4)][α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-rabinopyranosyl-hederagenin-28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 1891

3-*O*- β -*D*-Xylopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranosyl azukisapogenol 29-*O*- β -*D*-glucopyranoside ester = 15201

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-glucuronopyranosyl]-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20529

3-*O*-(β -*D*-Xylopyranosyl)-hederagenin = 3913

3-*O*- β -*D*-Xylopyranosyl oleanolic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 \rightarrow 4)- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranosyl ester = 1254

3 β -*O*-(β -*D*-Xylopyranosyl) pomolic acid methyl ester = 10982

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-methyl ester)-glucuronopyranoside = 19659

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-methylester)-glucuronopyranoside = 19661

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-*n*-butyl ester)-glucuronopyranoside = 19662

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranoside = 19665

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-(5-*O*-acetyl)-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-quillaic acid-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-glucuronopyranoside = 19666

28-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)]- α -*L*-arabinofuranosyl(1 \rightarrow 3)- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-methyl ester)-glucuronopyranoside = 19663

28-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 4)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)-[α -*L*-arabinofuranosyl(1 \rightarrow 3)]- β -*D*-(4-*O*-acetyl)-fucopyranosyl-gypsogenin-3-*O*- β -*D*-galactopyranosyl(1 \rightarrow 2)- β -*D*-(6-*O*-*n*-butyl ester)-glucuronopyranoside = 19664

3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 4)- β -*D*-(1 \rightarrow 4)][α -*L*-rhamnopyranosyl-(1 \rightarrow 3)- β -*D*-galactopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- α -*L*-arabinopyranosyl-hederagenin = 1890

3-*O*- β -*D*-Xylopyranosyl (1 \rightarrow 2)- α -*L*-rhamnopyranosyl-22 β -*O*- β -*D*-glucopyranosyl-6 α ,16 β -dihydroxyhopane = 13005

3-*O*- β -*D*-Xylopyranosyl (1 \rightarrow 2)- α -*L*-rhamnopyranosyl-6 α -*O*- β -*D*-xylopyranosyl-22-*O*- β -*D*-glucopyranosyl-16 β -hydroxy hopane = 13004

3-*O*- β -*D*-Xylopyranosyl-(1 \rightarrow 3)- α -*L*-rhamnopyranosyl-(1 \rightarrow 2)- β -*D*-xylopyranosyl-oleanolic acid 28-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 6)- β -*D*-glucopyranoside = 19436

3-*O*-(β -*D*-Xylopyranosyl 4-sulphate)-spergulagenin A = 20144

6'-*O*- β -*D*-Xylopyranosylswertiamarin = 3539

3-*O*-{[β -*D*-Xylopyranosyl-(1 \rightarrow 2)]-[β -*D*-xylopyranosyl-(1 \rightarrow 4)]-[3-*O*-acetyl]- β -*D*-glucuronopyranosyl}-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20536

3-*O*- β -*D*-Xylopyranosyl-6 α -*O*- β -*D*-xylopyranosyl-16 β ,22 β -dihydroxyhopane = 13008

3-*O*-{[β -*D*-Xylopyranosyl(1 \rightarrow 2)]-[β -*D*-xylopyranosyl(1 \rightarrow 4)]- β -*D*-glucuronopyranosyl}-28-*O*-[β -*D*-glucopyranosyl]-oleanolic acid = 20535

3-*O*- β -*D*-Xylopyranosyl-6 α -*O*- β -*D*-xylopyranosyl-16 β -*O*- β -*D*-xylopyranosyl-22 β -hydroxyhopane = 13006

D-Xylose = 22843
3,4-Xylylic acid = 6320

Y

Yadanzolide A = 2672
Yageine = 9235
Yangambin = 12920
Yatansin = 2684
(-)-Yatein = 5543
Yatrorizine = 11851
Yemuoside YM14 = 3781
(-)-Yiyeliangwanoside XI = 22919
Yuanhuacin A = 22929
Yuanhuadin B = 22930
Yuglon = 11903
Yuheinoside = 17513

Z

Zeaxanthin dipalmitate = 17238
Zedoarone = 4416
Zeorin = 9634
(+)-(1*R**,5*R**,6*S**)-Zierene = 22999
Zingiberenin B = 3924

TCM Plant English Name Index

TCM Plant English Name	TCM Plant Code and Latin Name	TCM Plant PIN YIN Name
Abbreviate Balanophora*	T0857 <i>Balanophora abbreviata</i>	DUAN SHE GU
Abelmusk	T4303 <i>Moschus moschiferus</i> ; <i>Moschus berezovskii</i> ; <i>Moschus sifanicus</i>	SHE XIANG
Abrams Cypress*	T1894 <i>Cupressus abramsiana</i>	AI SHI BAI MU
Absus Senna*	T1228 <i>Cassia absus</i>	A SU JUE MING
Abura Mitragyna	T4257 <i>Mitragyna macrophylla</i>	DA YE MAO ZHU MU
Abutilon Nightshade*	T5988 <i>Solanum abutiloides</i>	MA ZHUANG QIE
Abyssinia Coralbean*	T2457 <i>Erythrina abyssinica</i>	A BI XI NI YA CI TONG
Abyssinia Harrisonia*	T3108 <i>Harrisonia abyssinica</i>	A BI XI NI YA NIU JIN GUO
Acacia Terminalia*	T6349 <i>Terminalia stuhlmannii</i>	A KA XI A LAN REN
Acanthoid Pricklyash*	T6858 <i>Zanthoxylum acanthopodium</i>	CI HUA JIAO
Acanthus-leaved Mahonia	T4053 <i>Mahonia acanthifolia</i>	CI YE SHI DA GONG LAO
Acicular Thorowax	T1057 <i>Bupleurum bicaule</i>	ZHUI YE CHAI HU
Acid Gambirplant*	T6604 <i>Uncaria acida</i>	SUAN GOU TENG
Aconite	T0118 <i>Aconitum napellus</i>	OU WUTOU
Actino-spiny Barberry	T0896 <i>Berberis actinacantha</i>	CU CI XIAO BO
Aculeate Amomum*	T0415 <i>Amomum aculeatum</i>	CI DOU KOU
Aculeate Nightshade*	T5989 <i>Solanum aculeatissimum</i>	DING QIE
Aculeate Poisonnut*	T6163 <i>Strychnos aculeata</i>	CI MA QIAN ZI
Aculeate Ruffle Palm	T0259 <i>Aiphanes aculeata</i>	CI JI NU ZONG LV
Acuminate Aussieoplar*	T3273 <i>Homalanthus acuminatus</i>	JIAN JIAN AO YANG
Acuminate Banana	T4329 <i>Musa acuminata</i>	XIAO GUO YE JIAO
Acuminate Colanet	T1615 <i>Cola acuminata</i>	SU DAN KE LE GUO
Acuminate Glochidion*	T2987 <i>Glochidion acuminatum</i>	JIAN JIAN SUAN PAN ZI
Acuminate Lasianthus	T3696 <i>Lasianthus acuminatissimus</i>	CHANG WEI CU YE MU
Acuminate Swallowwort	T1950 <i>Cynanchum ascyrifolium</i>	CHAO FENG CAO
Acuminate Tobacco*	T4424 <i>Nicotiana acuminata</i>	JIAN XING YAN CAO
Acuminate Uvaria*	T6657 <i>Uvaria acuminata</i>	JIAN ZI YU PAN
Acuminatum Epimedium	T2389 <i>Epimedium acuminatum</i>	CU MAO YIN YANG HUO
Acutangular Scopolia	T5819 <i>Scopolia acutangula</i> [Syn. <i>Anisodus acutangulus</i>]	SAN FEN SAN
Acute Antirhea*	T0536 <i>Antirhea acutata</i>	JIAN RUI MAO CHA
Acute Common Perilla	T4717 <i>Perilla frutescens</i> var. <i>acuta</i> [Syn. <i>Perilla frutescens</i> var. <i>purpurascens</i>]	JIAN ZI SU
Acute Common Perilla Leaf	T4718 <i>Perilla frutescens</i> var. <i>acuta</i> [Syn. <i>Perilla frutescens</i> var. <i>purpurascens</i>]	JIAN ZI SU YE
Acute Rush*	T3577 <i>Juncus acutus</i>	JIAN DENG XIN CAO
Acute Sida	T5942 <i>Sida acuta</i>	HUANG HUA REN
Acute Spiraea	T6081 <i>Spiraea japonica</i> var. <i>acuta</i>	JI JIAN XIU XIAN JU

Acute Syngnathus*	T6257 <i>Syngnathus acus</i>	JIAN HAI LONG
Acuteangle Hedyotis	T3122 <i>Hedyotis acutangula</i>	JIN CAO
Acuteangulus Pencilwood*	T2306 <i>Dysoxylum acutangulum</i>	RUI JIAO JIAN MU
Acuteleaf Ash Bark	T2780 <i>Fraxinus szaboana</i> [Syn. <i>Fraxinus chinensis</i> var. <i>acuminata</i>]	JIAN YE CEN
Acute-leaf Pricklyash*	T6859 <i>Zanthoxylum acutifolium</i>	JIAN YE HUA JIAO
Acutelobed Angelica	T0474 <i>Angelica acutiloba</i> [Syn. <i>Ligusticum acutilobum</i>]	DONG DANG GUI
Acutelobed Hornpoppy	T2970 <i>Glaucium oxylobum</i>	JIAN LIE HAI YING SU
Acutifoliate Podocarpium	T2133 <i>Desmodium racemosum</i> [Syn. <i>Podocarpium podocarpum</i> var. <i>oxyphyllum</i>]	SHAN MA HUANG
Adder's Tongue	T4506 <i>Ophioglossum vulgatum</i>	PING ER XIAO CAO
Adhesive Rehmannia Cocked Root	T5446 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]	SHU DI HUANG
Adhesive Rehmannia Dried Root	T5445 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]	GAN DI HUANG
Adhesive Rehmannia Fresh Root	T5447 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]	XIAN DI HUANG
Adlay	T1613 <i>Coix lacryma-jobi</i>	YI MI
Adnate Groundsel*	T5875 <i>Senecio adnatus</i>	TIE SHENG QIAN LI GUANG
Afghanistan Erysimum*	T2456 <i>Erysimum perofskianum</i>	A FU HAN TANG JIE
Afghanistan Lilac*	T6258 <i>Syringa afghanica</i>	A FU HAN DING XIANG
Africa Trumpetreeper*	T4422 <i>Newbouldia laevis</i>	FEI ZHOU ZI WEI
African Antiaris*	T0532 <i>Antiaris africana</i>	FEI ZHOU JIAN XUE FENG HOU
African Basil*	T4474 <i>Ocimum kilimandscharicum</i>	FEI ZHOU LUO LE
African Costus*	T1754 <i>Costus afer</i>	FEI ZHOU BI QIAO JIANG
African Cucumber*	T1873 <i>Cucumis africanus</i>	FEI ZHOU HUANG GUA
African Custard Apple*	T3237 <i>Hexalobus crispiflorus</i>	FEI ZHOU FAN LI ZHI
African Erythrophleum	T2482 <i>Erythrophleum africanum</i>	FEI ZHOU GE MU
African frog	T0207 African frog	FEI ZHOU WA
African Gambirplant*	T6605 <i>Uncaria africana</i>	FEI ZHOU GOU TENG
African Holarrhena*	T3262 <i>Holarrhena africana</i>	FEI ZHOU ZHI XIE MU
African Lily	T0209 <i>Agapanthus africanus</i>	FEI ZHOU BAI ZI LIAN
African Mammey Apple	T4092 <i>Mammea africana</i>	FEI ZHOU HUANG GUO MU
African Mitragyna*	T4255 <i>Mitragyna africanus</i>	FEI ZHOU MAO ZHU MU
African Myrsine	T4361 <i>Myrsine africana</i>	TIE ZI
African Olive*	T4486 <i>Olea africana</i>	FEI ZHOU GAN LAN
African Quassia*	T5369 <i>Quassia africana</i>	FEI ZHOU KU MU
African Rosewood	T2004 <i>Dalbergia melanoxylon</i>	FEI ZHOU HUANG TAN
Afzel Poisonnut*	T6164 <i>Strychnos afzelii</i>	A FU ZE ER MA QIAN ZI
Afzeli Garcinia*	T2849 <i>Garcinia afzelii</i>	A FU ZE LI SHAN ZHU ZI
Aging Leek	T0320 <i>Allium senescens</i>	SHAN JIU
Ailanthus-like Pricklyash	T6860 <i>Zanthoxylum ailanthoides</i>	CHU YE HUA JIAO
Ailanthus-like Pricklyash Bark	T6862 <i>Zanthoxylum ailanthoides</i>	CHU YE HUA JIAO PI
Ailanthus-like Pricklyash Root	T6861 <i>Zanthoxylum ailanthoides</i>	CHU YE HUA JIAO GEN
Ainsliaefolious Cacia	T1097 <i>Cacalia ainsliaeflora</i>	TU ER FENG XIE JIA CAO
Air-plant	T1043 <i>Bryophyllum pinnatum</i>	LUO DI SHENG GEN
Airpotato Yam	T2191 <i>Dioscorea bulbifera</i>	HUANG YAO ZI
Aizoon Stonecrop	T5850 <i>Sedum aizoon</i>	FEI CAI
Ajowan	T6488 <i>Trachyspermum ammi</i>	A YU WEI
Akee	T0956 <i>Blighia sapida</i>	XI FEI LI ZHI GUO
Aleppo Gall (Galla Halepensis)	T5374 <i>Quercus infectoria</i>	MO SHI ZI
Alfalfa	T4148 <i>Medicago sativa</i>	MU XU
Alfalfa Root	T4149 <i>Medicago sativa</i>	MU XU GEN
Alfred Stonecrop	T5851 <i>Sedum alfredii</i> [Syn. <i>Sedum formosanum</i>]	DONG NAN JING TIAN

Algarroba	T5210 <i>Prosopis juliflora</i>	MU DOU SHU
Algerian Cottonthistle*	T4496 <i>Onopordum algeriense</i>	A ER JI ER DA CHI JI
Algerian Iris	T3473 <i>Iris unguicularis</i>	A ER JI LI YA YUAN WEI
Algerian Statice	T3841 <i>Limonium bonduellii</i>	A ER JI LI YA BU XUE CAO
Algid Rhodiola*	T5491 <i>Rhodiola algida</i>	JI SHI HONG JING TIAN
Alkanet	T0447 <i>Anchusa officinalis</i>	YAO YONG NIU SHE CAO
Alliaceus Pencilwood*	T2307 <i>Dysoxylum alliaceum</i>	CONG JIAN MU
Alligator Alternanthera	T0379 <i>Alternanthera philoxeroides</i>	KONG XIN XIAN
Allspice	T4894 <i>Pimenta dioica</i>	DUO XIANG GUO
Allugha Galangal*	T0352 <i>Alpinia allughas</i>	A LU HA LIANG JIANG
Alpine Bog-swertia	T6230 <i>Swertia perennis</i>	SU GEN ZHANG YA CAI
Alpine Clubmoss*	T3964 <i>Lycopodium alpinum</i> [Syn. <i>Diphasiastrum alpinum</i>]	GAO SHAN BIAN ZHI SHI SONG
Alpine Currant	T5544 <i>Ribes alpinum</i>	GAO SHAN CHA BIAO
Alpine Edelweiss	T3749 <i>Leontopodium alpinum</i>	GAO SHAN HUO RONG CAO
Alpine Gentian	T2902 <i>Gentiana algida</i>	BAI HUA LONG DAN
Alpine Groundsel*	T5878 <i>Senecio alpinus</i>	YA KE BEI QIAN LI GUANG
Alpine Larkspur	T2074 <i>Delphinium elatum</i>	GAO FEI YAN CAO
Alpine Meadowrue	T6373 <i>Thalictrum alpinum</i>	GAO SHAN TANG SONG CAO
Alpine Oleandra	T4488 <i>Oleandra wallichii</i>	GAO SHAN TIAO JUE
Alpine Poppy	T4621 <i>Papaver alpinum</i>	GAO SHAN YING SU
Alpine Pricklyash	T6881 <i>Zanthoxylum hamiltonianum</i>	GAO SHAN HUA JIAO
Alpine Sowthistle	T1414 <i>Cicerbita alpina</i>	GAO SHAN YAN SHEN
Alpine Totara	T5049 <i>Podocarpus nivalis</i>	GAO SHAN LUO HAN SONG
Alpine Yarrow	T0060 <i>Achillea alpina</i> [Syn. <i>Achillea sibirica</i>]	YI ZHI HAO
Alpine Thermopsis	T6424 <i>Thermopsis alpina</i>	GAO SHAN HUANG HUA
Altai Anemone*	T0463 <i>Anemone altaica</i>	A ER TAI YIN LIAN HUA
Altai Heteropappus	T3233 <i>Heteropappus altaicus</i>	A ER TAI ZI WAN
Alternateleaf Melaleuca*	T4153 <i>Melaleuca alternifolia</i>	HU SHENG YE BAI QIAN CENG
Alternateleaf Thermopsis*	T6425 <i>Thermopsis alternifolia</i>	HU SHENG YE YE JUE MING
Alternate-leaved Golden-saxifrage	T1402 <i>Chrysosplenium alternifolium</i>	JIN YAO
Amaranthinecolor Goosefoot*	T1360 <i>Chenopodium amaranticolor</i>	XIAN SE LI
Amazon lily	T2524 <i>Eucharis amazonica</i>	YA MA XUN BAI HE
Amazonian Jewelvine*	T2117 <i>Derris amazonica</i>	YA MA XUN YU TENG
Amazonian Poisonnut*	T6165 <i>Strychnos amazonica</i>	YA MA XUN MA QIAN ZI
Ambiguous Consolida*	T1646 <i>Consolida ambigua</i>	LIANG SI FEI YAN CAO
Amboina Pitch Tree	T0213 <i>Agathis dammara</i>	BEI KE SHAN
American Agave	T0215 <i>Agave americana</i>	FAN MA
American Aspen	T5163 <i>Populus tremuloides</i>	CHAN YANG
American Avocado	T4731 <i>Persea americana</i> [Syn. <i>Persea gratissima</i>]	E LI
American Bittersweet	T1293 <i>Celastrus scandens</i>	MEI ZHOU NAN SHE TENG
American Coralbean*	T2458 <i>Erythrina americana</i>	MEI ZHOU CI TONG
American Cranberry	T6671 <i>Vaccinium macrocarpon</i>	MEI ZHOU SUAN GUO LUO
American Crotalaria*	T1814 <i>Crotalaria anagyroides</i>	MEI ZHOU YE BAI HE
American Eleutherine	T2339 <i>Eleutherine americana</i>	XIAO HONG SUAN
American Elm	T6594 <i>Ulmus americana</i>	MEI ZHOU YU
American Euphorbia	T2600 <i>Euphorbia maculata</i>	BAN DI JIN
American Ginseng	T4610 <i>Panax quinquefolium</i>	XI YANG SHEN
American Ginseng Stem-leaf	T4611 <i>Panax quinquefolium</i>	XI YANG SHEN JING YE
American Green Alder	T0325 <i>Alnus crispa</i>	MEI ZHOU LU QI MU
American Lotus	T4396 <i>Nelumbo lutea</i>	JIN HUANG LIAN
American Maidenhair Fern	T0175 <i>Adiantum pedatum</i>	TIE SI QI
American Pokeweed	T4861 <i>Phytolacca americana</i> [Syn. <i>Phytolacca decandra</i>]	MEI SHANG LU
American Ragweed*	T0397 <i>Ambrosia artemisiaefolium</i>	MEI ZHOU TUN CAO

American Spineginseng*	T4517 <i>Oplopanax horridus</i>	MEI ZHOU CI SHEN
American Umbrellaleaf	T2230 <i>Diphylleia cymosa</i>	SHAN XI WO ER QI
American Vouacapoua*	T6804 <i>Vouacapoua americana</i>	MEI GUO KE YA SHU
Ammbergris	T4855 <i>Physeter catodon</i>	LONG XIAN XIANG
Ampelopsis	T0423 <i>Ampelopsis brevipedunculata</i>	SHE PU TAO
Amphibian Jujube*	T6914 <i>Ziziphus amphibia</i>	SHUI LU ZAO
Amphibious Knotweed	T5097 <i>Polygonum amphibium</i>	LIANG QI LIAO
Amplexicaul Swertia	T6221 <i>Swertia franchetiana</i>	BAO JING ZHANG YA CAI
Amplexifolious Glorybower	T1569 <i>Clerodendrum serratum</i> var. <i>amplexifolium</i>	SAN TAI HUA
Amur Adonis	T0184 <i>Adonis amurensis</i>	FU SHOU CAO
Amur Barberry	T0897 <i>Berberis amurensis</i>	XIAO BO
Amur Corktree	T4789 <i>Phellodendron amurense</i>	HUANG BAI
Amur Corydalis	T1706 <i>Corydalis ambigua</i> var. <i>amurensis</i> [Syn. <i>Corydalis ambigua</i>]	DONG BEI YAN HU SUO
Amur Grape	T6794 <i>Vitis amurensis</i>	SHAN PU TAO
Amur Jackinthepulpit	T0617 <i>Arisaema amurense</i>	DONG BEI TIAN NAN XING
Amur Lilac	T6259 <i>Syringa amurensis</i> [Syn. <i>Syringa reticulata</i> var. <i>amurensis</i>]	BAO MA ZI
Amur Maackia	T4009 <i>Maackia amurensis</i>	CHAO XIAN HUAI
Amur Maple	T0049 <i>Acer ginnala</i>	CHA TIAO QI
Amur Poppy	T4630 <i>Papaver nudicaule</i> ssp. <i>amurense</i>	HEI SHUI YE YING SU
Amur Valeriana	T6675 <i>Valeriana amurensis</i>	HEI SHUI XIE CAO
Amygdalate Apricot Seed	T5215 <i>Prunus amygdalus</i>	BA DAN XING REN
Anantmul	T3200 <i>Hemidesmus indicus</i>	YIN DU BA QIA
Anatomicum Fig*	T4199 <i>Mesembryanthemum anatomicum</i>	MING SONG YE JU
Anattotree	T0947 <i>Bixa orellana</i>	HONG MU
Ancher St.John'swort*	T3337 <i>Hypericum ancherii</i>	AN SHI JIN SI TAO
Ancients Euphorbia	T2580 <i>Euphorbia antiquorum</i>	HUO YANG LE
Ancistrocladus*	T0450 <i>Ancistrocladus korupensis</i>	GOU ZHI TENG
Andrographis*	T0459 <i>Andrographis serpyllifolia</i>	BAI LI XIANG YE CHUN XIN LIAN
Angelica	T0477 <i>Angelica archangelica</i>	YUAN DANG GUI
Angelin-tree	T0452 <i>Andira inermis</i>	WU CI KE YA SHU
Angled Bittersweet	T1285 <i>Celastrus angulatus</i>	DIAO GAN MA
Angletwig Magnoliavine	T5797 <i>Schisandra propinqua</i>	HAN RUI WU WEI ZI
Angola Alangium*	T0283 <i>Alangium lamarckii</i>	AN GE LA BA JIAO FENG
Angola Cucumber*	T1874 <i>Cucumis angolensis</i>	AN GE LA HUANG GUA
Angola Padauk*	T5300 <i>Pterocarpus angolensis</i>	AN GE LA ZI TAN
Angola Uvaria*	T6658 <i>Uvaria angolensis</i>	GUAN ZI YU PAN
Angostura-bark Tree	T2829 <i>Galipea officinalis</i>	AN GU SI TU LA SHU
Angulate Groundsel*	T5880 <i>Senecio angulatus</i>	LENG JIAO QIAN LI GUANG
Angulate Mistletoe*	T6772 <i>Viscum angulatum</i>	LENG ZHI HU JI SHENG
Anhui Anemone*	T0464 <i>Anemone anhuiensis</i>	AN HUI YIN LIAN HUA
Anhui Fritillary	T2781 <i>Fritillaria anhuiensis</i>	AN HUI BEI MU
Anise	T4895 <i>Pimpinella anisum</i>	HUI QIN
Annual Adonis*	T0185 <i>Adonis annua</i>	QIU FU SHOU CAO
Annual Fleabane	T2421 <i>Erigeron annuus</i>	YI NIAN PENG
Annual Mercury	T4196 <i>Mercurialis annua</i>	YI NIAN SHENG SHAN DIAN
Anomalous Mallotu	T4079 <i>Mallotus anomalus</i>	XIU MAO YE TONG
Ansu Apricot Seed	T5219 <i>Prunus armeniaca</i> var. <i>ansu</i>	SHAN XING REN
Antao Nutmeg	T4354 <i>Myristica simiarum</i>	FEI LV BIN ROU DOU KOU
Antidysenteric Brucea*	T1037 <i>Brucea antidysenterica</i>	KANG LI YA DAN ZI
Antifebrile Dichroa	T2158 <i>Dichroa febrifuga</i>	CHANG SHAN
Apisin	T0539 <i>Apis cerana</i>	FENG DU
Appendiculate Cremastra	T1787 <i>Cremastra appendiculata</i>	DU JUAN LAN
Apple	T4088 <i>Malus pumila</i>	PING GUO

Apple Mint	T4188 <i>Mentha rotundifolia</i>	YU XIANG CAO
Apple of Peru	T4423 <i>Nicandra physaloides</i>	JIA SUAN JIANG
Apricot	T5218 <i>Prunus armeniaca</i>	XING ZI
Apricot Root	T5217 <i>Prunus armeniaca</i>	XING SHU GEN
Apricot Seed	T5216 <i>Prunus armeniaca</i>	XING REN
Aquatic Morning Glory	T3444 <i>Ipomoea aquatica</i> [Syn. <i>Convolvulus repens</i> ; <i>Ipomoea reptans</i>]	WENG CAI
Aquatic-sunflower Inula	T3432 <i>Inula helianthus-aquatica</i>	SHUI CHAO YANG
Arabian Acacia	T0016 <i>Acacia arabica</i>	A LA BO JIN HE HUAN
Arabian Coffeetree	T1608 <i>Coffea arabica</i>	XIAO GUO KA FEI
Arabian Jasmine	T3557 <i>Jasminum sambac</i>	MO LI HUA
Arachnoidea Redstriate Woodbetony*	T4685 <i>Pedicularis striata</i> ssp. <i>arachnoidea</i>	ZHU SI HONG WEN MA XIAN HAO
Arboreous Bayberry*	T4342 <i>Myrica arborea</i>	QIAO MU ZHUANG YANG MEI
Arboreous Coriaria*	T1689 <i>Coriaria arborea</i>	CAI SHI MU MA SANG
Arboreous Peony	T4581 <i>Paeonia arborea</i>	QIAO MU SHAO YAO
Arboreous Pepper*	T4932 <i>Piper arboreum</i>	QIAO MU HU JIAO
Arboreous Terminalia*	T6343 <i>Terminalia arborea</i>	QIAO MU ZHUANG LAN REN
Arborescent Aloe*	T0334 <i>Aloe arborescens</i> var. <i>natalensis</i>	WU GONG ZHANG
Arenaceous Hymenocallis*	T3319 <i>Hymenocallis arenicola</i>	SHA SHENG SHUI GUI JIAO
Argenti Aglaia*	T0231 <i>Aglaia argentea</i>	YIN SE MI ZI LAN
Argentin <i>Mulinum spinosum</i>	T4313 <i>Mulinum spinosum</i>	DUO CI LUO CAO
Argentine Box*	T1085 <i>Buxus argentea</i>	YIN BAI HUANG YANG
Argentine Cudweed*	T3027 <i>Gnaphalium gaudichaudianum</i>	A GEN TING SHU QU CAO
Argentine Liverwort	T4990 <i>Plagiochasma rupestre</i>	ZI BEI TAI
Argute Perilla*	T4713 <i>Perilla arguta</i>	RUI ZI SU
Arguzioid Heliotrope*	T3168 <i>Heliotropium arguzioides</i>	A GU JI TIAN JIE CAI
Argy Wormwood Leaf	T0664 <i>Artemisia argyi</i>	AI YE
Aristolochia chilensis	T0623 <i>Aristolochia chilensis</i>	ZHI LI MA DOU LING
Arizona Cypress	T1895 <i>Cupressus arizonica</i>	LV GAN BAI
Arizona Sneezeweed*	T3132 <i>Helenium arizonicum</i>	YA LI SANG NA DUI XIN JU
Armand Pine	T4906 <i>Pinus armandii</i>	HUA SHAN SONG
Armate-leaf Pricklyash*	T6864 <i>Zanthoxylum armatum</i>	MAO ZHU YE HUA JIAO
Armet-petal Ear-leaf Muscus*	T2802 <i>Frullania muscicola</i>	KUI BAN ER YE TAI
Armillariella Tabescens	T0646 <i>Armillariella tabescens</i>	LIANG JUN
Armillary Mushroom*	T0644 <i>Armillaria mellea</i>	MI HUAN JUN
Armoracia Drypetes*	T2288 <i>Drypetes armoracia</i>	LA GEN HE GUO MU
Arnotti Pricklyash*	T6865 <i>Zanthoxylum arnottianum</i>	A NUO TI HUA JIAO
Arolla Pine	T4909 <i>Pinus cembra</i>	RUI SHI SHI SONG
Aromatic Ginger	T6907 <i>Zingiber aromaticum</i>	FANG XIANG JIANG
Aromatic Xylopi*	T6850 <i>Xylopi aromaticum</i>	FANG XIANG MU BAN SHU
AromaticTurmeric	T1903 <i>Curcuma aromatica</i>	YU JIN
Arrowhead-like Wildginger	T0730 <i>Asarum sagittarioides</i>	SHAN CI GU
Arrowleaf Balsamroot	T0865 <i>Balsamorhiza sagittata</i>	
Arrowleaf Goldenray Root	T3812 <i>Ligularia sagitta</i>	JIAN YE TOU WU GEN
Arrowroot Tacca	T6275 <i>Tacca chantrieri</i> [Syn. <i>Tacca minor</i> ; <i>Tacca esquirolii</i>]	JIAN GEN SHU
Arrowshaft Poplar	T5156 <i>Populus nigra</i> var. <i>thevestina</i>	JIAN GAN YANG
Arrowshaped Tinospora	T6467 <i>Tinospora sagittata</i>	QING NIU DAN
Articulate Pholidota	T4821 <i>Pholidota articulata</i>	JIE JING SHI XIAN TAO
Arundo Nightshade*	T5990 <i>Solanum arundo</i>	A LUN DUO QIE
Asafetida Giantfennel Resin	T2695 <i>Ferula assafoetida</i>	A WEI
Asarabacca	T0725 <i>Asarum europaeum</i>	OU XI XIN
Ascendent Asparagus*	T0745 <i>Asparagus adscendens</i>	SHANG JU TIAN MEN DONG
Ashanti Pepper	T4946 <i>Piper guineense</i>	JI NEI YA HU JIAO
Ashurbajev Wormwood*	T0665 <i>Artemisia ashurbajevii</i>	A SHI HAO

Asia Belltree	T5402 <i>Radermachera sinica</i>	CAI DOU SHU
Asian Colubrina	T1627 <i>Colubrina asiatica</i>	SHE TENG
Asian Cowparsnip*	T3215 <i>Heracleum lanatum</i> var. <i>asiaticum</i>	YA ZHOU DU HUO
Asian lichen	T5342 <i>Pyrenula japonica</i>	RI BEN XIAO HE YI
Asian Pigeonwings	T1577 <i>Clitoria ternatea</i>	HU DIE HUA DOU
Asian Tetracera	T6353 <i>Tetracera asiatica</i>	XI YE TENG
Asian White Birch Bark	T0935 <i>Betula platyphylla</i> var. <i>japonica</i>	HUA MU PI
Asiatic Cornelian Cherry	T1698 <i>Cornus officinalis</i> [Syn. <i>Macrocarpium officinale</i>]	SHAN ZHU YU
Asiatic Moonseed	T4182 <i>Menispermum dauricum</i>	BIAN FU GE
Asiatic Moonseed Root	T4183 <i>Menispermum dauricum</i>	BIAN FU GE GEN
Asiatic Pennywort	T1311 <i>Centella asiatica</i>	JI XUE CAO
Asiatic Plantain	T5002 <i>Plantago asiatica</i>	CHE QIAN
Asiatic Yarrow	T0061 <i>Achillea asiatica</i>	YA ZHOU SHI
Asiatic Toddalia	T6471 <i>Toddalia asiatica</i> [Syn. <i>Toddalia aculeata</i> ; <i>Paullinia asiatica</i>]	FEI LONG ZHANG XUE
Asica Baneberry	T1418 <i>Cimicifuga asiatica</i>	LEI YE SHENG MA
Asidefield Galingale	T1975 <i>Cyperus haspan</i>	QI PAN SHA CAO
Aspen	T5162 <i>Populus tremula</i>	OU ZHOU SHAN YANG
Assam Crotalaria Seed	T1815 <i>Crotalaria assamica</i>	ZI XIAO RONG ZI
Assam Horsechestnut	T0198 <i>Aesculus assamica</i>	CHANG BING QI YE SHU
Assam Tea	T1153 <i>Camellia sinensis</i> var. <i>assamica</i>	PU ER CHA
Assuki Bean	T6752 <i>Vigna angularis</i> [Syn. <i>Dolichus angularis</i> ; <i>Phaseolus angularis</i>]	CHI DOU
Astrantia	T0810 <i>Astrantia major</i>	DA XING QIN
Asymmetry Rhamnella*	T5453 <i>Rhamnella inaequilatera</i>	BU DUI CHENG MAO RU
Atlas Cedar	T1281 <i>Cedrus atlantica</i>	BEI FEI XUE SONG
Atuntsuen Rhodiola	T5492 <i>Rhodiola atuntsuensis</i>	DE QIN HONG JING TIAN
Aucher St. John's wort*	T3341 <i>Hypericum aucheri</i>	AO SHI JIN SI TAO
Aureate Mayweed*	T4123 <i>Matricaria aurea</i>	JIN SE MU JU
Auricled Hedyotis	T3123 <i>Hedyotis auricularia</i>	ER CAO
Auricledleaf Mosquitotrap	T1958 <i>Cynanchum otophyllum</i>	QING YANG SHEN
Auricula	T5197 <i>Primula auricula</i>	ER ZHUANG BAO CHUN HUA
Auriculate Acacia	T0017 <i>Acacia auriculaeformis</i>	ER XING JIN HE HUAN
Auriculate Millettia*	T4233 <i>Millettia auriculata</i>	ER XING JI XUE TENG
Auriculate Swallowwort	T1952 <i>Cynanchum auriculatum</i>	ER YE NIU PI XIAO
Auriculate Twayblade*	T3861 <i>Liparis auriculata</i>	ER XING YANG ER LAN
Auriform Plagiogyria	T5000 <i>Plagiogyria stenoptera</i>	ER XING LIU ZU JUE
Austral Akebia	T0279 <i>Akebia trifoliata</i> var. <i>australis</i>	BAI MU TONG
Austral Akebia Root	T0280 <i>Akebia trifoliata</i> var. <i>australis</i>	BAI MU TONG GEN
Austral Bird's Foot Trefoil	T3927 <i>Lotus australis</i>	AO ZHOU BAI MAI GEN
Austral Rhubarb	T5468 <i>Rheum emodi</i> [Syn. <i>Rheum australe</i>]	ZANG BIAN DA HUANG
Australia Stephania*	T6130 <i>Stephania japonica</i> var. <i>australis</i>	AO DA LI YA QIAN JIN TENG
Australia Yew	T0832 <i>Austrotaxus spicata</i>	AO DA LI YA HONG DOU SHAN
Australian Blackwood	T0025 <i>Acacia melanoxylon</i>	HEI MU JIN HE HUAN
Australian Cowplant	T3080 <i>Gymnema sylvestri</i>	CHI GENG TENG
Australian Nightshade	T5991 <i>Solanum aviculare</i> [Syn. <i>Solanum laciniatum</i>]	AO ZHOU QIE
Australian Tea-tree	T3767 <i>Leptospermum polygalifolium</i> ssp. <i>polygalifolium</i>	YUAN ZHI YE AO ZHOU CHA
Autumn Lycoris	T3988 <i>Lycoris squamigera</i>	LU CONG
Autumn Zephyrlily	T6903 <i>Zephyranthes candida</i>	GAN FENG CAO
Aweto (Chinese Caterpillar Fungus)	T1683 <i>Cordyceps sinensis</i>	DONG CHONG XIA CAO
Avicenna's Pricklyash	T6866 <i>Zanthoxylum avicennae</i>	YING BU BO
Avrons	T5589 <i>Rubus chamaemorus</i>	XUAN GOU ZI
Axillary Southem Wildjube	T1381 <i>Choerospondias axillaris</i>	NAN SUAN ZAO
Ayapana Eupatorium*	T2552 <i>Eupatorium ayapana</i>	A YA PAN ZE LAN

Aztec Dahlia	T1996 <i>Dahlia pinnata</i> [Syn. <i>Dahlia variabilis</i>]	DA LI HUA
Aztec Marigold	T6278 <i>Tagetes erecta</i>	WAN SHOU JU
Aztec Marigold Leaf	T6279 <i>Tagetes erecta</i>	WAN SHOU JU YE
Aztec Tobacco	T4427 <i>Nicotiana rustica</i>	HUANG HUA YAN CAO
Azure Eupatorium*	T2553 <i>Eupatorium azureum</i>	TIAN LAN ZE LAN
Azure Monkshood	T0095 <i>Aconitum fischeri</i>	BO YE WU TOU
Babylon Weeping Willow Branch	T5651 <i>Salix babylonica</i>	LIU ZHI
Babylon Weeping Willow Root-bast	T5650 <i>Salix babylonica</i>	LIU BAI PI
Bacciform Ciperadessa	T1446 <i>Ciperadessa baccifera</i>	YA LUO CHUN
Badgersbane	T0114 <i>Aconitum lycoctonum</i>	LANG DU WU TOU
Baikal Meadowrue	T6375 <i>Thalictrum baicalense</i>	BEI JIA ER TANG SONG CAO
Baikal Skullcap	T5834 <i>Scutellaria baicalensis</i>	HUANG QIN
Bailai's Chrysanthemum	T0854 <i>Baileya multiradiata</i>	BAI LAI SHI JU
Bailan Flower	T4209 <i>Michelia alba</i>	BAI LAN HUA
Baillon Veratrilla	T6691 <i>Veratrilla baillonii</i>	HUANG QIN JIAO
Balansa Melodinus*	T4176 <i>Melodinus balansae</i>	BEI SHI SHAN CHENG
Bald Pyrrosia	T5353 <i>Pyrrosia calvata</i>	GUANG SHI WEI
Balearic Box	T1086 <i>Buxus balearica</i>	XI BAN YA HUANG YANG
Balkan Toadflax	T3843 <i>Linaria dalmatica</i>	DA ER MA WEI YA LIU CHUAN YU
Ballander Magnoliavine	T5801 <i>Schisandra sphaerandra</i>	QIU RUI WU WEI ZI
Balloonflower	T5011 <i>Platycodon grandiflorum</i>	JIE GENG
Balloonvine Heartseed	T1197 <i>Cardiospermum halicacabum</i>	JIA KU GUA
Bally Aloe*	T0335 <i>Aloe ballyi</i>	BEI LI LU HUI
Balmleaf Metittis	T4175 <i>Melittis melissophyllum</i>	OU ZHOU MI FENG HUA
Balsam Croton*	T1838 <i>Croton balsamifera</i>	XIANG BA DOU
Balsam Fir	T0004 <i>Abies balsamea</i>	XIANG ZHI LENG SHAN
Balsam Poplar	T5147 <i>Populus balsamifera</i>	ZHI YANG
Balsamiferous Blumea	T0957 <i>Blumea balsamifera</i>	AI NA XIANG
Balsampear	T4263 <i>Momordica charantia</i>	KU GUA
Baluchistan Barberry	T0898 <i>Berberis baluchistanica</i>	BI LU ZHI XIAO BO
Bamboo Yellow*	T5939 <i>Shiraia bambusicola</i>	ZHU XUANG
Bambooleaf Pricklyash	T6887 <i>Zanthoxylum planispinum</i>	ZHU YE JIAO
Bambooleaf Pricklyash Root	T6888 <i>Zanthoxylum planispinum</i>	ZHU YE JIAO GEN
Bambooleaf Seseli	T5934 <i>Seseli meirei</i>	SAN YE FANG FENG
Bambooleaf Thorowax	T1066 <i>Bupleurum marginatum</i>	ZHU YE CHAI HU
Bambusa Hypocrella*	T3371 <i>Hypocrella bambusae</i>	ZHU HONG JUN
Bank Pepper*	T4935 <i>Piper banksii</i>	BAN KE HU JIAO
Barbados Cotton	T3054 <i>Gossypium barbadense</i>]	HAI DAO MIAN
Barbary Wolfberry Fruit	T3955 <i>Lycium barbarum</i>	NING XIA GOU QI ZI
Barbary Wolfberry Root-bark*	T3954 <i>Lycium barbarum</i>	NING XIA GOU QI GEN PI
Barbate Cyclea	T1931 <i>Cyclea barbata</i>	YIN BU HUAN
Barbate Deadnettle	T3681 <i>Lamium barbatum</i>	YE ZHI MA
Barbate Filmy Fern	T3324 <i>Hymenophyllum barbatum</i>	MO JUE
Barbed Skullcap	T5835 <i>Scutellaria barbata</i> [Syn. <i>Scutellaria rivularis</i>]	BAN ZHI LIAN
Barberry-like-dileaf Canthium	T1178 <i>Canthium berberidifolium</i>	SI XIAO BO SHUANG YE YU GU MU
Barbey Larkspur*	T2061 <i>Delphinium barbeyi</i>	BA BI CUI QUE HUA
Bark-less Puff-ball	T3701 <i>Lasiosphaera fenzlii</i>	MA BO
Barley Germinating Fruit	T3282 <i>Hordeum vulgare</i>	MAI YA
Basil	T4470 <i>Ocimum basilicum</i>	LUO LE
Basil Fruit	T4471 <i>Ocimum basilicum</i>	LUO LE ZI
Bastard Speedwell	T6729 <i>Veronica spuria</i>	YI ZHI XIANG
Bastardtoadflaxlike Swallowwort	T1961 <i>Cynanchum thesioides</i>	DI SHAO GUA
Bat Dung	T6732 <i>Vespertilio superans</i>	YE MING SHA

Bauer Acronychia	T0148 <i>Acronychia baueri</i>	BAO RUI SHAN YOU GAN
Bavarian Gentian	T2903 <i>Gentiana bavarica</i>	BA FA LI YA LONG DAN
Bay Bolete	T6848 <i>Xerocomus badius</i>	HE RONG GAI NIU GAN JUN
Bayberry Glorybower*	T1560 <i>Clerodendron myricoides</i>	YANG MEI CHANG SHAN
Bead Fern, Sensitive Fern	T4492 <i>Onoclea sensibilis</i>	BEI MEI QIU ZI JUE
Beakstyle Condorvine	T4118 <i>Marsdenia oreophila</i>	HUI ZHU NIU NAI CAI
Bean Blister Beetle	T2384 <i>Epicauta gorhami</i>	GE SHANG TING CHANG
Bean Trefoil	T0441 <i>Anagyris foetida</i>	CHOU WEI HONG DOU
Bear Gall	T5871 <i>Selenarctos thibetanus</i> ; <i>Ursus arctos</i>	XIONG DAN
Bear's Paw	T5872 <i>Selenarctos thibetanus</i> ; <i>Ursus arctos</i>	XIONG ZHANG
Bearberry	T0588 <i>Arctostaphylos uva-ursi</i>	XIONG GUO
Bearded Tooth Carpophore	T3229 <i>Hericium erinaceus</i> [Syn. <i>Hydnum erinaceus</i>]	HOU TOU JUN
Beautiful Crotalaria	T1834 <i>Crotalaria spectabilis</i>	MEI LI ZHU SHI DOU
Beautiful Galangal	T0363 <i>Alpinia speciosa</i>	DA CAO KOU
Beautiful Garcinia*	T2875 <i>Garcinia speciosa</i>	MEI LI TENG HUANG
Beautiful Hornpoppy*	T2971 <i>Glaucium pulchrum</i>	MEI LI HAI YING SU
Beautiful Inula*	T3435 <i>Inula magnifica</i>	MEI LI XUAN FU HUA
Beautiful Milkweed*	T0739 <i>Asclepias speciosa</i>	MEI LI MA LI JIN
Beautiful Mitragyna*	T4258 <i>Mitragyna speciosa</i>	MEI LI MAO ZHU MU
Beautiful Newlitse	T4405 <i>Neolitsea pulchella</i>	MEI LI XIN MU JIANG ZI
Beautiful Phyllodium	T2131 <i>Desmodium pulchellum</i> [Syn. <i>Phyllodium pulchellum</i>]	PAI QIAN CAO
Beautiful Phyllodium Root	T2132 <i>Desmodium pulchellum</i> [Syn. <i>Phyllodium pulchellum</i>]	PAI QIAN CAO GEN
Beautiful St.John'swort	T3342 <i>Hypericum bellum</i>	MEI LI JIN SI TAO
Beautiful Sweetgum	T3867 <i>Liquidambar formosana</i> [Syn. <i>Liquidambar taiwaniana</i>]	LU LU TONG
Beautiful Sweetgum Leaf	T3866 <i>Liquidambar formosana</i> [Syn. <i>Liquidambar taiwaniana</i>]	FENG XIANG SHU
Beautiful-flowered Saussurea	T5767 <i>Saussurea pulchella</i>	MEI HUA FENG MAO JU
Beautiful-leaf Tephrosia*	T6332 <i>Tephrosia calophylla</i>	MEI LI YE HUI MAO DOU
Beautiful-raceme Barberry	T0900 <i>Berberis calliobotrys</i>	MEI SUI XIAO BO
Beddome Devilpepper	T5429 <i>Rauwolfia beddomei</i>	BI SHI LUO FU MU
Bee Balm	T4174 <i>Melissa officinalis</i>	XIANG FENG HUA
Bee Wax	T0542 <i>Apis cerana</i>	MI LA
Beggarticks	T0938 <i>Bidens bipinnata</i>	GUI ZHEN CAO
Beijing Poplar	T5148 <i>Populus beijingensis</i>	BEI JING YANG
Belgaum Walnut Seed	T0300 <i>Aleurites moluccana</i>	SHI LI ZI
Beliz Pricklyash*	T6867 <i>Zanthoxylum belizense</i>	BO LI ZI HUA JIAO
Bell Heather	T2417 <i>Erica cinerea</i>	HUI SE OU SHI NAN
Bellaco-Caspi	T3251 <i>Himatanthus sukuuba</i>	SU KU BA DOU HUA
Bellcalyx Pulsatilla	T5323 <i>Pulsatilla campanella</i>	ZHONG E BAI TOU WENG
Bengal Clockvine	T6444 <i>Thunbergia grandiflora</i>	DA HUA SHAN QIAN NIU
Bengal Kino	T1083 <i>Butea monosperma</i>	DAN ZI ZI MAO
Bergamot Orange	T1470 <i>Citrus bergamia</i>	XIANG NING MENG
Berghe Eucalyptus*	T2501 <i>Eucalyptus berghei</i>	BO SHI AN
Berry-bearing Campion	T1871 <i>Cucubalus baccifer</i>	BAI NIU XI
Bertero Coralbean*	T2460 <i>Erythrina berteriana</i>	BO SHI CI TONG
Berthault Nightshade*	T5992 <i>Solanum berthaultii</i>	BO SHI QIE
Betel Pepper Leaf	T4937 <i>Piper betle</i>	JU JIANG YE
Betenutpalm	T0606 <i>Areca catechu</i>	BING LANG
Betonyleaf Meconopsis	T4141 <i>Meconopsis betonicifolia</i>	HUO XIANG YE LV RONG HAO
Bhote Khair	T2499 <i>Eskemukerjea megacarpum</i>	
Bhutan Pine	T4910 <i>Pinus excelsa</i>	QIAO GUI
Biflower Crocus*	T1807 <i>Crocus chrysanthus-biflorus</i>	SHUANG HUA FAN HONG HUA
Biflower St.John'swort*	T3353 <i>Hypericum geminiflorum</i>	SHUANG HUA JIN SI TAO
Big Ammi	T0410 <i>Ammi majus</i>	DA A MI

Big Anise*	T4899 <i>Pimpinella magna</i>	DA HUI QIN
Big Anisetree*	T3403 <i>Illicium majus</i>	DA BA JIAO
Big Cord-grass	T6063 <i>Spartina cynosuroides</i>	YAN DI HE
Big Goniiothalamus*	T3046 <i>Goniiothalamus giganteus</i>	DA GE NA XIANG
Big Hogfennel*	T4757 <i>Peucedanum grande</i>	DA QIAN HU
Big Russula*	T5621 <i>Russula lepida</i>	DA HONG GU
Big Sagebrush	T0702 <i>Artemisia tridentata</i>	SAN CHI HAO
Bigdentate Ampelopsis	T0426 <i>Ampelopsis grossedentata</i> [Syn. <i>Ampelopsis cantoniensis</i> var. <i>grossedentata</i>]	XIAN CHI SHE PU TAO
Bigelov Sneezeweed*	T3136 <i>Helenium bigelovii</i>	BI SHI DUI XIN JU
Bigflower Cape Jasmine	T2884 <i>Gardenia jasminoides</i> var. <i>grandiflora</i>	SHUI ZHI
Bigflower Cape Jasmine Leaf	T2885 <i>Gardenia jasminoides</i> var. <i>grandiflora</i>	SHUI ZHI YE
Bigflower Carpesium*	T1212 <i>Carpesium eximium</i>	DA HUA JIN WA ER
Bigflower Goniiothalamus	T3047 <i>Goniiothalamus griffithii</i>	DA HUA GE NA XIANG
Bigflower Heartseed*	T1196 <i>Cardiospermum grandiflorum</i>	DA HUA DAO DI LING
Bigflower Ladyslipper	T1984 <i>Cypripedium macranthum</i> [Syn. <i>Cypripedium tibeticum</i>]	DA HUA SHAO LAN
Bigflower Magnoliavine*	T5792 <i>Schisandra grandiflora</i>	DA HUA WU WEI ZI
Bigflower Pencilwood*	T2311 <i>Dysoxylum macranthum</i>	DA HUA JIAN MU
Bigflower Rhodiola	T5494 <i>Rhodiola crenulata</i> [Syn. <i>Rhodiola euryphylla</i>]	DA HUA HONG JING TIAN
Big-flowered Javatea	T4541 <i>Orthosiphon stamineus</i> [Syn. <i>Orthosiphon aristatus</i> ; <i>Orthosiphon grandiflorus</i> ; <i>Orthosiphon spicatus</i>]	XIONG RUI ZHUANG ZHI GUAN CAO
Bigfruit Rosemyrtle*	T5527 <i>Rhodomyrtus macrocarpa</i>	DA GUO TAO JIN NIANG
Bigleaf Beautyberry	T1120 <i>Callicarpa macrophylla</i>	DA YE ZI ZHU
Bigleaf Breaketplant	T1380 <i>Chlorophytum malayense</i>	DA YE DIAO LAN
Bigleaf Magnolia	T4048 <i>Magnolia rostrata</i>	DA YE HOU PO
Bigleaf Polyscias*	T5130 <i>Polyscias amplifolia</i>	DA YE NAN YANG SHEN
Bigleaf Poplar	T5155 <i>Populus lasiocarpa</i>	DA YE YANG
Bigleaf Thorowax	T1065 <i>Bupleurum longiradiatum</i>	DA YE CHAI HU
Bignay Chinalaurel	T0535 <i>Antidesma bunius</i>	WU YUE CHA
Bignose Rhiancanthus	T5483 <i>Rhinacanthus nasutus</i>	BAI HE LING ZHI
Bigseed Jointfir	T3032 <i>Gnetum montanum</i> f. <i>megalocarpum</i>	DA ZI MAI MA TENG
Bigseed Swertia	T6225 <i>Swertia macrosperma</i>	DA ZI ZHANG YA CAI
Bigstreak Seseli*	T5930 <i>Seseli grandivittatum</i>	DA TIAO WEN XIE HAO
Bigthyrse Rabdosia	T3514 <i>Isodon megathyrsus</i>	DA ZHUI XIANG CHA CAI
Bimble Box	T2516 <i>Eucalyptus populnea</i>	YANG YE AN
Biond Magnolia	T4035 <i>Magnolia biondii</i> [Syn. <i>Magnolia fargesii</i>]	WANG CHUN YU LAN
Bipinnatifid Ginseng	T4604 <i>Panax japonicus</i> var. <i>bipinnatifidus</i>	YU YE SAN QI
Birchleaf Pear	T5361 <i>Pyrus betulaefolia</i>	TANG LI
Bird Rape	T1005 <i>Brassica campestris</i> [Syn. <i>Brassica campestris</i> var. <i>oleifera</i>]	YUN TAI ZI
Bird-in-a-bush	T1708 <i>Corydalis bulbosa</i> [Syn. <i>Corydalis solida</i>]	SHAN YAN HU SUO
Birdsfoot Trefoil	T3928 <i>Lotus corniculatus</i>	DI YANG QUE
Bispore Mushroom*	T0210 <i>Agaricus bisporus</i>	SHUANG BAO MO GU
Bistort	T5099 <i>Polygonum bistorta</i>	QUAN SHEN
Bisulcate Milkvetch*	T0787 <i>Astragalus bisulcatus</i>	ER GOU HUANG QI
Biting Stonecrop	T5849 <i>Sedum acre</i>	TAI JING TIAN
Bitter	T3621 <i>Kaempferia marginata</i>	KU SHAN NAI
Bitter Brucea*	T1036 <i>Brucea amarissima</i>	KU YA DAN ZI
Bitter Citrus	T1469 <i>Citrus aurantium</i> var. <i>amara</i>	DAI DAI HUA
Bitter Cucumber*	T1879 <i>Cucumis sativus</i> var. <i>hanzil</i>	KU HUANG GUA
Bitter Milkwort*	T5070 <i>Polygala amarella</i>	KU WEI YUAN ZHI
Bitter Nightshade Fruit	T5998 <i>Solanum dulcamara</i>	QIAN NIAN BU LAN XIN
Bitter Russula	T5624 <i>Russula rosacea</i>	KU HONG GU
Bitter Vetch	T3705 <i>Lathyrus montanus</i>	SHAN DI XIANG WAN DOU

Bitter Willow Bast	T5653 <i>Salix purpurea</i>	SHUI YANG MU BAI PI
Bitter Willow Branch-leaf	T5654 <i>Salix purpurea</i>	SHUI YANG ZHI YE
Bitterleaf	T6712 <i>Vernonia amygdalina</i>	BIAN TAO ZHUANG BAN JIU JU
Bitterness Sneezeweed*	T3131 <i>Helenium amarum</i>	KU WEI DUI XIN JU
Bittersweet	T6005 <i>Solanum lyratum</i>	BAI MAO TENG
Black Bryony	T6291 <i>Tamus communis</i>	JIANG GUO SHU YU
Black Bui*	T0863 <i>Ballota nigra</i>	HEI BA LUO CAO
Black Cottonwood	T5164 <i>Populus trichocarpa</i>	MAO GUO YANG
Black Currant	T5546 <i>Ribes nigrum</i>	HEI CHA BIAO
Black Dianella*	T2140 <i>Dianella nigra</i>	HEI JIE GENG LAN
Black Elder	T5704 <i>Sambucus nigra</i>	XI YANG JIE GU MU
Black Falsehellebore	T6698 <i>Veratrum nigrum</i>	LI LU
Black Hellebore	T3183 <i>Helleborus niger</i>	TI GEN CAO
Black Henbane Leaf	T3328 <i>Hyoscyamus niger</i>	LANG DANG YE
Black Henbane Root	T3327 <i>Hyoscyamus niger</i>	LANG DANG GEN
Black Henbane Seed	T3329 <i>Hyoscyamus niger</i>	LANG DANG ZI
Black Honeysuckle	T3916 <i>Lonicera nigra</i>	HEI REN DONG
Black Indian Hemp	T0551 <i>Apocynum cannabinum</i>	JIA ZHU TAO MA
Black Locust Flower	T5552 <i>Robinia pseudoacacia</i>	CI HUAI HUA
Black Magnoliavine*	T5796 <i>Schisandra nigra</i>	NEI FENG XIAO
Black Mustard	T1012 <i>Brassica nigra</i>	HEI JIE
Black Nightshade	T6008 <i>Solanum nigrum</i>	LONG KUI
Black Oak	T5381 <i>Quercus tinctoria</i>	ZHUO SE LI
Black Pepper	T4957 <i>Piper nigrum</i>	HU JIAO
Black Rice Spermoider*	T4547 <i>Oryza sativa</i> cv	HEI SE MI PI KANG
Black Silkvine	T4728 <i>Periploca nigrescens</i>	HEI GANG LIU
Black Soyabean	T3000 <i>Glycine max</i>	HEI DA DOU
Black Soyabean Leaf	T3002 <i>Glycine max</i>	HEI DA DOU YE
Black Soyabean Spermoider	T3001 <i>Glycine max</i>	HEI DA DOU PI
Black Thorowax	T1074 <i>Bupleurum smithii</i>	HEI CHAI HU
Black Walnut	T3566 <i>Juglans nigra</i>	HEI HU TAO
Black Wattle	T0027 <i>Acacia mollissima</i>	ROU JIN HE HUAN
Black White Quebracho*	T0769 <i>Aspidosperma nigricans</i>	HEI BAI JIAN MU
Blackberrylily	T0892 <i>Belamcanda chinensis</i>	SHE GAN
Blacken Saussurea	T5762 <i>Saussurea nigrescens</i>	DUN BAO XUE LIAN
Blackend Swallowwort	T1951 <i>Cynanchum atratum</i>	BAI WEI
Blackflower Rabdosia*	T3531 <i>Isodon trichocarpus</i>	HEI HUA YAN MING CAO
Blackflower Cassytha*	T1253 <i>Cassytha melantha</i>	HEI HUA WU GEN TENG
Blackfruit Greenbrier	T5978 <i>Smilax glauco-china</i>	HEI GUO BA QIA
Blackfruit Madder	T5580 <i>Rubia cordifolia</i> var. <i>pratensis</i>	HEI GUO QIAN CAO
Blackhair Denrdobium	T2111 <i>Dendrobium williamsonii</i>	HEI MAO SHI HU
Blackhaw	T6739 <i>Viburnum prunifolium</i>	YING YE JIA MI
Black-powder Fungus in Corn	T6656 <i>Ustilago maydis</i>	YU MI HEI MEI
Black-purple Scurrella*	T5830 <i>Scurrula atropurpurea</i>	HEI ZI LI GUO JI SHENG
Black-rock Ophiorrhiza*	T4511 <i>Ophiorrhiza kuroiwei</i>	HEI YAN SHE GEN CAO
Black-spot Hornpoppy	T2966 <i>Glaucium corniculatum</i>	XIAO JIAO HAI YING SU
Blackstick Coralbean*	T2470 <i>Erythrina melanacantha</i>	HEI CI CI TONG
Blacktiger Kadsura	T3613 <i>Kadsura coccinea</i> [Syn. <i>Kadsura chenensis</i> ; <i>Kadsura hainanensis</i>]	LENG FAN TUAN[yn]
Blasia*	T0949 <i>Blasia pusilla</i>	HU BAO TAI
Bleedingheart	T2150 <i>Dicentra formosa</i>	MEI LI HE BAO MU DAN
Bleedingheart Glorybower	T1570 <i>Clerodendrum thomsonae</i>	LONG TU ZHU
Blepharostoma*	T0953 <i>Blepharostoma trichophyllum</i>	JIE MAO TAI

Blessing Citrus*	T1515 <i>Citrus tangemna</i>	FU JU
Blin Conyza	T1655 <i>Conyza blinii</i>	KU HAO
Bling-your-eye-tree	T2650 <i>Excoecaria agallocha</i>	HAI QI
Blister Beetle	T4338 <i>Mylabris phalerata; Mylabris cichorii</i>	BAN MAO
Bloodflower Milkweed	T0736 <i>Asclepias curassavica</i>	LIAN SHENG GUI ZI HUA
Bloodred Iris	T3468 <i>Iris sanguinea</i>	DOU CHI CAO
Bloodroot	T5709 <i>Sanguinaria canadensis</i>	MEI ZHOU XUE GEN CAO
Blue Ash	T2776 <i>Fraxinus quadrangulata</i>	SI LENG LA SHU
Blue Ceratostigma, Blue Bluesnow	T1328 <i>Ceratostigma plumbaginoides</i>	JIAO ZHU HUA
Blue Lettuce	T3664 <i>Lactuca virosa</i>	DU WO JU
Blue Thistle	T2320 <i>Echium vulgare</i>	LAN JI
Blue Trigonella	T6527 <i>Trigonella caerulea</i>	LAN HU LU BA
Blue Waterlily	T4454 <i>Nymphaea caerulea</i>	LAN SHUI LIAN
Bluesepal Rabdosia*	T3497 <i>Isodon japonica</i> var. <i>glaucoalyx</i>	LAN E XIANG CHA CAI
Blue-yellow Redmushroom*	T5619 <i>Russula cyanoxantha</i>	LAN HUANG HONG GU
Blunt Concave-top Alga*	T3722 <i>Laurencia obtusa</i>	DUN XING AO DING ZAO
Bluntleaf Cotton	T3059 <i>Gossypium indicum</i>	YIN DU MIAN
Bluntleaf Dock	T5613 <i>Rumex obtusifolius</i>	DUN YE SUAN MO
Blushred Rabdosia	T5396 <i>Rabdosia rubescens</i>	DONG LING CAO
Bodinier Box	T1087 <i>Buxus bodinieri</i>	QUE SHE HUANG YANG
Bodinier Mahonia	T4058 <i>Mahonia bodinieri</i>	XIAO GUO SHI DA GONG LAO
Bogbean	T4194 <i>Menyanthes trifoliata</i>	SHUI CAI
Bogbean Root	T4195 <i>Menyanthes trifoliata</i>	SHUI CAI GEN
Bog-myrtle	T4344 <i>Myrica gale</i>	XIANG YANG MEI
Boldo	T4774 <i>Peumus boldus</i>	BO LU DU SHU
Bombay Nutmeg*	T4352 <i>Myristica malabarica</i>	MENG MAI ROU DOU KOU
Bona Conyza	T1656 <i>Conyza bonariensis</i> [Syn. <i>Erigeron bonariensis</i> ; <i>Erigeron linifolius</i> ; <i>Erigeron crispus</i>]	XIANG SI CAO
Bonvalot Larkspur	T2062 <i>Delphinium bonvalotii</i>	CHUAN QIAN CUI QUE HUA
Boone Alstonia	T0367 <i>Alstonia boonei</i>	GAN LAO JI GU CHANG SHAN
Boor's Mustard	T6436 <i>Thlaspi arvense</i>	XI MING
Boor's Mustard Seed	T6437 <i>Thlaspi arvense</i>	XI MING ZI
Boreal Wild Chrysanthemum	T1387 <i>Chrysanthemum boreale</i>	BEI YE JU
Borneo Gambirplant*	T6609 <i>Uncaria borneensis</i>	PO LUO ZHOU GOU TENG
Borneol	T2274 <i>Dryobalanops aromatica</i>	BING PIAN
Borneol Oil-Resin	T2275 <i>Dryobalanops aromatica</i>	LONG NAO GAO XIANG
Bottle Gourd	T3668 <i>Lagenaria siceraria</i> var. <i>depressa</i>	HU GUA
Bottle Groundsel*	T5906 <i>Senecio sarracenicus</i>	PING QIAN LI GUANG
Bottle-brush	T2407 <i>Equisetum arvense</i>	WEN JING
Bouquet Larkspur	T2077 <i>Delphinium grandiflorum</i>	CUI QUE HUA
Bourgae Hogfennel*	T4754 <i>Peucedanum bourgaei</i>	BO SHI QIAN HU
Bowedconical Rabdosia*	T3509 <i>Isodon loxothyrsa</i>	WAN ZHUI XIANG CHA CAI
Bower Actinidia	T0155 <i>Actinidia arguta</i>	MI HOU LI
Bower Actinidia Root*	T0156 <i>Actinidia arguta</i>	MI HOU LI GEN
<i>Bowley Sage</i>	T5661 <i>Salvia bowleyana</i>	NAN DAN SHEN
Bow-shaped Dutchmanspipe*	T0621 <i>Aristolochia arcuata</i>	GONG XING MA DOU LING
Boxleaf Atalantia Leaf	T0814 <i>Atalantia buxifolia</i> [Syn. <i>Severinia buxifolia</i>]	DONG FENG JU YE
Boxleaf Atalantia Root	T0813 <i>Atalantia buxifolia</i> [Syn. <i>Severinia buxifolia</i>]	DONG FENG JU GEN
Boxleaf Scutia*	T5846 <i>Scutia buxifolia</i>	HUANG YANG YE DUI CI TENG
Boxleaf Syzygium	T6264 <i>Syzygium buxifolium</i>	CHI NAN
Boxleaf Xylopia*	T6851 <i>Xylopia buxifolia</i>	HUANG YANG YE MU BAN SHU
Box-leaved Barberry	T0899 <i>Berberis buxifolia</i>	HUANG YANG XIAO BO
Bracken	T5283 <i>Pteridium aquilinum</i>	OU ZHOU JUE

Brackfollicle	T6578 <i>Tylophora atrofolliculata</i>	SAN FEN DAN
Bracteate Poppy*	T4623 <i>Papaver bracteatum</i>	DA HONG YING SU
Bracteole Centaurea*	T1304 <i>Centaurea bracteata</i>	BAO PIAN SHI CHE JU
Bracteole Galipea*	T2827 <i>Galipea bracteata</i>	BAO PIAN TU LA SHU
Bractleaf Rabdosia	T3515 <i>Isodon melissoides</i>	BAO YE XIANG CHA CAI
Bramble Acacia	T0034 <i>Acacia victoria</i>	WEI DUO LI YA JIN HE HUAN
Branchy Tamarisk	T6290 <i>Tamarix ramosissima</i>	DUO ZHI CHENG LIU
Braun's Spikemoss	T5859 <i>Selaginella braunii</i>	MAO ZHI JUAN BAI
Brazilian Brown Alga <i>Dictyota paffii</i>	T2171 <i>Dictyota paffii</i>	BA XI ZONG ZAO
Brazilian Calaba	T1125 <i>Calophyllum brasiliense</i>	BA XI HU TONG
Brazilian Devilpepper*	T5422 <i>Rauwolfia bahiensis</i>	BA XI LUO FU MU
Brazilian Dutchmanspipe*	T0622 <i>Aristolochia chamissonis</i>	BA XI MA DOU LING
Brazilian Ear-leaf Muscus*	T2801 <i>Frullania brasiliensis</i>	BA XI ER YE TAI
Brazilian Groundsel*	T5881 <i>Senecio brasiliensis</i>	BA XI QIAN LI GUANG
Brazilian Joan-wood*	T3562 <i>Joannesia princeps</i>	BA XI QIAO AN MU
Brazilian Peppertree	T5789 <i>Schinus terebinthifolius</i>	XIAO RU XIANG
Brazilian Wild Tobacco, Marianeira	T0075 <i>Acnistus arborescens</i>	BA XI YE YAN
Brazil-wood	T1103 <i>Caesalpinia echinata</i>	JI YUN SHI
Breckland Thyme	T6452 <i>Thymus serpyllum</i>	BAI LI XIANG
Bretschneider Pear Leaf	T5362 <i>Pyrus bretschneideri</i>	LI YE
Brick Tops	T4367 <i>Naematoloma sublateritium</i>	ZHUAN HONG REN SAN
Bridalwreath Spiraea	T6084 <i>Spiraea prunifolia</i>	XIAO YE HUA
Bright Fig*	T2722 <i>Ficus nitida</i>	LIANG YE RONG
Brilliant Champion	T3950 <i>Lychnis fulgens</i>	DA HUA JIAN QIU LUO
Bristlecone Pine	T4905 <i>Pinus aristata</i>	CI GUO SONG
British Inula	T3427 <i>Inula britannica</i>	XUAN FU HUA
British Inula Herb	T3426 <i>Inula britannica</i>	DA HUA XUAN FU HUA CAO
Broad Buckler-fern	T2277 <i>Dryopteris austriaca</i>	AO DI LI LIN MAO JUE
Broadbean	T6744 <i>Vicia faba</i>	CAN DOU
Broadbean Leaf	T6747 <i>Vicia faba</i>	CAN DOU YE
Broadbean Pericarp	T6745 <i>Vicia faba</i>	CAN DOU JIA KE
Broadbean Stem	T6746 <i>Vicia faba</i>	CAN DOU JING
Broad-bracteate Mahonia	T4061 <i>Mahonia eurybracteata</i>	KUAN BAO SHI DA GONG LAO
Broadleaf Actinidia	T0163 <i>Actinidia latifolia</i>	KUO YE MI HOU TAO
Broadleaf Arborvitae Hiba	T6443 <i>Thujaopsis dolobrata</i>	LUO HAN BAI
Broadleaf Blainvillea*	T0948 <i>Blainvillea acmella</i> [Syn. <i>Verbesina acmella</i> ; <i>Eclipta latifolia</i> ; <i>Blainvillea latifolia</i>]	YU LIN CAI
Broadleaf Cattail Pollen	T6587 <i>Typha latifolia</i>	KUAN YE XIANG PU
Broadleaf Common Valeriana	T6680 <i>Valeriana officinalis</i> var. <i>latifolia</i>	KUO YE XIE CAO
Broadleaf Crinum	T1799 <i>Crinum latifolium</i>	XI NAN WEN SHU LAN
Broadleaf Davallia	T2054 <i>Davallia solida</i>	KUO YE GU SUI BU
Broadleaf Devilpepper	T5435 <i>Rauwolfia latifrons</i>	KUO YE LUO FU MU
Broadleaf Fatheadtree*	T4390 <i>Nauclea latifolia</i>	KUAN YE WU TAN
Broadleaf Groundsel*	T5897 <i>Senecio platyphyllus</i>	KUAN YE QIAN LI GUANG
Broadleaf Holly	T3393 <i>Ilex latifolia</i>	DA YE DONG QING
Broadleaf Jointfir	T3031 <i>Gnetum latifolium</i>	KUAN YE MAI MA TENG
Broadleaf Liriope*	T3873 <i>Liriope platyphylla</i>	KUO YE SHAN MAI DONG
Broadleaf Milkwort*	T5085 <i>Polygala senega</i> var. <i>latifolia</i>	KUAN YE MEI YUAN ZHI
Broadleaf Pluchea*	T0848 <i>Baccharis latifolia</i>	KUAN YE KUO BAO JU
Broadleaf Vetch	T6742 <i>Vicia amoena</i>	SHAN YE WAN DOU
Broad-pinna Colysis	T1629 <i>Colysis pothifolia</i> [Syn. <i>Hemionitis pothifolia</i>]	KUAN YU XIAN JUE
Broad-tongue Goldenray*	T3811 <i>Ligularia platyglossa</i>	KUAN SHE TUO WU
Bronzeleaf Rodgersflower	T5556 <i>Rodgersia podophylla</i>	RI BEN GUI DENG QING

Brooklet Anemone	T0471 <i>Anemone rivularis</i>	HU ZHANG CAO
Broomcorn Millet	T4618 <i>Panicum miliaceum</i>	SHU MI
Brown Alga <i>Bifurcaria bifurcata</i>	T0943 <i>Bifurcaria bifurcata</i>	SHUANG CHA ZAO
Brown Alga <i>Ecklonia stolonifera</i>	T2322 <i>Ecklonia stolonifera</i>	ZONG ZAO
Brown Larkspur*	T2063 <i>Delphinium brownii</i>	BAO SHI FEI YAN CAO
Brownflower Saussurea	T5765 <i>Saussurea phaeantha</i>	HE HUA XUE LIAN
Brownflower Trillium	T6532 <i>Trillium erectum</i>	HE HUA YAN LING CAO
Brown-margin Wood Fern	T2286 <i>Dryopteris sacrosancta</i>	RI BEN LIN MAO JUE
Brown-yellow Kokoona*	T3638 <i>Kokoona ochracea</i>	ZHE HUANG KAO GU NA
Brussels Sprout	T1018 <i>Brassica oleracea</i> var. <i>gemmifera</i>	BAO ZI GAN LAN
Buchanan Mayten	T4128 <i>Maytenus buchananii</i>	BU CHANG NAN MEI DENG MU
Buchinha (Brazil Herb)	T3936 <i>Luffa operculata</i>	NANG GAI SI GUA
Buchtorm Libanotis	T3796 <i>Libanotis buchtormensis</i>	YAN FENG
Buckhorn Plantain	T5006 <i>Plantago lanceolata</i>	CHANG YE CHE QIAN
Buddha's Lamp	T4335 <i>Mussaenda pubescens</i>	SHAN GAN CAO
Buerger Figwort	T5826 <i>Scrophularia buergeriana</i>	BEI XUAN SHEN
Buffalo Horn	T1045 <i>Bubalus bubalis</i>	SHUI NIU JIAO
Bugbane	T1420 <i>Cimicifuga foetida</i>	SHENG MA
Bugleweed	T3982 <i>Lycopus virginicus</i>	FU JI NI YA DI SUN
Bui; Phut kandu (local names)	T0862 <i>Ballota limbata</i>	
Bulbiferous Stonecrop	T5852 <i>Sedum bulbiferum</i>	XIAO JIAN CAO
Bulbous Corydalis	T1712 <i>Corydalis cava</i>	AO XIAN ZI JIN
Bulb-spermo Crinum*	T1797 <i>Crinum bulbispermum</i>	LIN JING ZHONG ZI WEN SHU LAN
Bullate Custardapple*	T0504 <i>Annona bullata</i>	PAO ZHUANG FAN LI ZHI
Bullocksheart Custardapple	T0511 <i>Annona reticulata</i>	NIU XIN FAN LI ZHI
Bumalda Bladdernut	T6097 <i>Staphylea bumalda</i>	SHENG GU YOU
Bunga Ash Bark	T2766 <i>Fraxinus bungeana</i>	XIAO YE CEN
Bunge Corydalis	T1709 <i>Corydalis bungeana</i>	KU DI DING
Bunge Giantfennel	T2697 <i>Ferula borealis</i>	SHA QIAN HU
Bunge Iris*	T3454 <i>Iris bungei</i>	BENG GE YUAN WEI
Bunge Pricklyash	T6869 <i>Zanthoxylum bungeanum</i>	HUA JIAO
Bunge Pricklyash Root	T6870 <i>Zanthoxylum bungeanum</i>	HUA JIAO GEN
Bunge Swallowwort	T1953 <i>Cynanchum bungei</i>	BAI SHOU WU
Buntan Pummelo*	T1481 <i>Citrus grandis</i> f. <i>buntan</i>	WEN DAN YOU
Bunya Bunya	T0578 <i>Araucaria bidwillii</i>	DA YE NAN YANG SHAN
Bur Beggarticks	T0941 <i>Bidens tripartita</i>	LANG PA CAO
Bur Sage	T0395 <i>Ambrosia acanthicarpa</i>	CI GUO TUN CAO
Burma Toon	T6474 <i>Toona ciliata</i>	HONG CHUN
Burmacoast Padauk	T5301 <i>Pterocarpus indicus</i>	ZI TAN
Burnet-saxifrage	T4900 <i>Pimpinella saxifraga</i>	HU ER CAO YE HUI QIN
Burning Bush	T2164 <i>Dictamnus albus</i>	BAI SE BAI XIAN
Burro Bush	T3322 <i>Hymenoclea salsola</i>	MEI GUO HAI MO JU
Burrowing sponge	T1575 <i>Cliona celata</i>	YIN JU CHUAN BEI HAI MIAN
Burser Gentian*	T2905 <i>Gentiana burseri</i>	BU SHI LONG DAN
Bursera*	T1080 <i>Bursera graveolens</i>	LIE WEI LIE LAN
Burweed	T6837 <i>Xanthium chinense</i>	ZHONG GUO CANG ER
Bush Redpepper	T1187 <i>Capsicum frutescens</i>	LA JIAO
Butchersbroom	T5618 <i>Ruscus aculeatus</i>	JIA YE SHU
Butternut	T3563 <i>Juglans cinerea</i>	HUI HU TAO
Cabbage	T1017 <i>Brassica oleracea</i> var. <i>capitata</i>	GAN LAN
Cablin Potchouli	T5059 <i>Pogostemon cablin</i> [Syn. <i>Mentha cablin</i>]	GUANG HUO XIANG
Cachalot	T4856 <i>Physeter catodon</i>	MO XIANG JING
Caesalpinia*	T1101 <i>Caesalpinia decapetala</i>	YUN SHI YE

Caffra Devilpepper*	T5430 <i>Rauwolfia caffra</i>	KA FU LA LUO FU MU
Cairo Milkvetch*	T0797 <i>Astragalus kahiricus</i>	KAI LUO HUANG QI
Cairo Morningglory	T3448 <i>Ipomoea cairica</i> [Syn. <i>Ipomoea palmata</i>]	WU ZHAO LONG
Cajeput-tree	T4154 <i>Melaleuca leucadendra</i>	BAI QIAN CENG
Calabash-tree	T1791 <i>Crescentia cujete</i>	PAO DAN GUO
Calicole Rabdosia	T3483 <i>Isodon calcicola</i>	JIN WU MAO HUI YAN XIANG CHA CAI
Caledonian Beautyleaf*	T1126 <i>Calophyllum caledonicum</i>	SU GE LAN HU TONG
California Poppy	T2495 <i>Eschscholzia californica</i>	HUA LING CAO
Californian Allspice	T1140 <i>Calycanthus occidentalis</i>	JIA ZHOU XIA LA MEI
Californian Buckeye	T0199 <i>Aesculus californica</i>	JIA ZHOU QI YE SHU
Californian Falsehellebore*	T6694 <i>Veratrum californicum</i>	JIA ZHOU LI LU
Californian Mountain Pine	T4918 <i>Pinus monticola</i>	JIA ZHOU SHAN SONG
Callery Pear Branch-leaf	T5363 <i>Pyrus calleryana</i>	YE LI ZHI YE
Callose Agrostophyllum	T0254 <i>Agrostophyllum callosum</i>	YING PI HE YE LAN
Calumba Root	T3559 <i>Jateorhiza palmata</i>	FEI ZHOU FANG JI
Calycin Swertia	T6213 <i>Swertia calycina</i>	BAO E ZHANG YA CAI
Calyx-shaped Daphniphyllum Fruit	T2032 <i>Daphniphyllum calycinum</i>	NIU ER FENG ZI
Cambodia Coca Shrub*	T2490 <i>Erythroxylum cambodianum</i>	JIAN PU ZHAI GU KE
Cambodia Jujube*	T6915 <i>Ziziphus cambodiana</i>	JIAN PU ZHAI ZAO
Camboge Garcinia*	T2851 <i>Garcinia cambogia</i>	TENG HUANG SHAN ZHU ZI
Cameroon Ochna*	T4464 <i>Ochna calodendron</i>	KA MAI LONG JIN LIAN MU
Cameroon Symphonia*	T6242 <i>Symphonia globulifera</i>	KA MAI LONG XIN FO NI A
Campestral Mugwort	T0668 <i>Artemisia campestris</i>	TIAN YE HAO
Campestral Seseli*	T5928 <i>Seseli campestre</i>	PING DI XI FENG QIN
Camphortree	T1435 <i>Cinnamomum camphora</i>	ZHANG MU
Camphortree Bark	T1436 <i>Cinnamomum camphora</i>	ZHANG SHU PI
Camphortree Leaf	T1437 <i>Cinnamomum camphora</i>	ZHANG SHU YE
Camphortreeleaf Pepper	T4961 <i>Piper polysyphorum</i>	ZHANG YE HU JIAO
Campus-belu Aspidosperma	T0761 <i>Aspidosperma campus-belus</i>	BAI JIAN MU
Cana do brejo (in Brazil)	T1757 <i>Costus spicatus</i>	SUI ZHUANG BI QIAO JIANG
Canada Lettuce	T3658 <i>Lactuca canadensis</i>	JIA NA DA WO JU
Canada Moonseed	T4181 <i>Menispermum canadense</i>	MEI GUO BIAN FU GE
Canada Poplar	T5149 <i>Populus canadensis</i>	JIA YANG
Canadian Cocklebur*	T6835 <i>Xanthium canadense</i>	JIA NA DA CANG ER
Canadian Goldenrod	T6022 <i>Solidago altissima</i>	GAO YI ZHI HUANG HUA
Canadian Milkvetch*	T0789 <i>Astragalus canadensis</i> var. <i>mortonii</i>	JIA NA DA HUANG QI
Canadian Snakeroot	T0723 <i>Asarum canadense</i>	JIA NA DA XI XIN
Canadian Yew	T6309 <i>Taxus canadensis</i>	JIA NA DA HONG DOU SHAN
Canaigre	T5610 <i>Rumex hymenosepalus</i>	MO E SUAN MO
Canari Mayten*	T4129 <i>Maytenus canariensis</i>	JIA NA LI MEI DENG MU
Canari Sage*	T5665 <i>Salvia canariensis</i>	JIA NA LI SHU WEI CAO
Canary Island Date-palm	T4819 <i>Phoenix canariensis</i>	ZHEN KUI
Canary Island Wormwood*	T0671 <i>Artemisia canariensis</i>	JIA NA LI HAO
Candelabar Tree	T0577 <i>Araucaria angustifolia</i>	ZHAI YE NAN YANG SHAN
Canereed Spiralflag	T1756 <i>Costus speciosus</i>	ZHANG LIU TOU
Canescent Cowparsnip*	T3211 <i>Heracleum canescens</i>	HUI BAI DU HUO
Canescent Devilpepper*	T5431 <i>Rauwolfia canescens</i>	HUI BAI MAO LUO FU MU
Canescent Sunflower*	T3147 <i>Helianthus canescens</i>	HUI BAI XIANG RI KUI
Canescent Swainsonia*	T6207 <i>Swainsonia canescens</i>	HUI BAI KU MA DOU
Cangshan Rabdosia	T3482 <i>Isodon bulleyana</i>	CANG SHAN XIANG CHA CAI
Canterburybells	T1156 <i>Campanula medium</i>	FENG LING CAO
Canton Abrus	T0010 <i>Abrus fruticulosus</i> [Syn. <i>Abrus cantoniensis</i>]	JI GU CAO

Canton Buttercup	T5413 <i>Ranunculus cantoniensis</i>	ZI KOU CAO
Cape Dandelion	T6687 <i>Venidium decurrens</i>	NI JIN ZHAN JU
Cape Ganoderma	T2845 <i>Ganoderma capense</i>	BAO GAI LING ZHI
Cape Jasmine Fruit	T2882 <i>Gardenia jasminoides</i> [Syn. <i>Gardenia florida</i>]	ZHI ZI
Cape Jasmine Leaf	T2883 <i>Gardenia jasminoides</i> [Syn. <i>Gardenia florida</i>]	ZHI ZI YE
Cape Leeuwin Wattle	T0294 <i>Albizzia lophantha</i>	YU ZHUANG HE HUAN
Cape of Good Hope Aloe Dried Juice	T0338 <i>Aloe ferox</i>	HAO WANG JIAO LU HUI
Cape of Good Hope Podocarpus	T5037 <i>Podocarpus elongatu</i>	HAO WANG JIAO LUO HAN SONG
Cape-of-Good-Hope Cattail	T6586 <i>Typha capensis</i>	HAO WANG JIAO XIANG PU
Caper Euphorbia Latex	T2598 <i>Euphorbia lathyris</i>	XU SUI ZI JING ZHONG BAI ZHI
Caper Euphorbia Seed	T2597 <i>Euphorbia lathyris</i>	QIAN JIN ZI
Capillary Wormwood	T0672 <i>Artemisia capillaris</i>	YIN CHEN HAO
Capitate Cyathula	T1923 <i>Cyathula capitata</i>	MA NIU XI
Capitate Rhododendron	T5504 <i>Rhododendron capitatum</i>	TOU HUA DU JUAN
Capitateflower Velvetbean	T6147 <i>Stizolobium capitatum</i>	LI DOU
Capitellate Hedyotis	T3124 <i>Hedyotis capitellata</i>	XIAO TOU LIANG HOU CHA
Capitellate Myrsine*	T4362 <i>Myrsine capitellata</i>	XIAO TOU TIE ZI
Capitulum Tickclover*	T2129 <i>Desmodium cephalotes</i>	JIA MU DOU
Carambola; Country Gooseberry	T0834 <i>Averrhoa carambola</i>	YANG TAO
Caraway	T1217 <i>Carum carvi</i>	GE LU ZI
Cardialeaf Tinospora*	T6464 <i>Tinospora cordifolia</i>	XIN XING YE QING NIU DAN
Cardia-petal Goniotalamus*	T3043 <i>Goniotalamus cardiopetalus</i>	XIN XING BAN GE NA XIANG
Cardoon	T1965 <i>Cynara cardunculus</i>	CI CAI JI
Caribbean Coralbean*	T2462 <i>Erythrina caribea</i>	JIA LE BI CI TONG
Carnation	T2142 <i>Dianthus caryophyllus</i>	SHE XIANG SHI ZHU
Carnival Candy Slime	T0590 <i>Arcyria denudata</i>	AN HONG TUAN WANG JUN
Carob	T1326 <i>Ceratonia siliqua</i>	CHANG JIAO DOU
Carolina Allspice	T1139 <i>Calycanthus floridus</i>	MEI GUO XIA LA MEI
Carolina Clubmoss*	T3967 <i>Lycopodium carolinianum</i>	KA LUO LAI NA SHI SONG
Carolina Elephantfoot*	T2331 <i>Elephantopus carolinianus</i>	KA LUO LAI NA DI DAN CAO
Carolina Jasmine	T2899 <i>Gelsemium sempervirens</i>	CHANG LV GOU WEN
Carolina Larkspur*	T2065 <i>Delphinium carolinianum</i>	KA LUO LAI NA CUI QUE
Carolina Snailseed*	T1584 <i>Cocculus carolinus</i>	MEI GUO QING TENG
Carolina-like Clubmoss*	T3968 <i>Lycopodium carolinianum</i> var. <i>affine</i>	SI KA LUO LAI NA SHI SONG
Carp	T1980 <i>Cyprinus carpio</i>	LI YU
Carp Gall	T1981 <i>Cyprinus carpio</i>	LI YU DAN
Carp Skin	T1982 <i>Cyprinus carpio</i>	LI YU PI
Carrot	T2050 <i>Daucus carota</i> var. <i>sativa</i>	HU LUO BO
Carrot Seed	T2051 <i>Daucus carota</i> var. <i>sativa</i>	HU LUO BO ZI
Caruth Wormwood*	T0673 <i>Artemisia caruthii</i>	KA SI HAO
Cascara Buckthorn	T5463 <i>Rhamnus purshiana</i>	BO XI SHU LI
Cascarilla	T1844 <i>Croton eluteria</i>	KU XIANG SHU
Cassave Aerial Parts	T4104 <i>Manihot esculenta</i>	MU SHU DI SHANG BU FEN
Cassiabarktree	T1439 <i>Cinnamomum cassia</i> [Syn. <i>Cinnamomum aromaticum</i>]	ROU GUI
Cassiabarktree Twig	T1438 <i>Cinnamomum cassia</i> [Syn. <i>Cinnamomum aromaticum</i>]	GUI ZHI
Cassumuna Ginger*	T6908 <i>Zingiber cassumunar</i>	YE JIANG
Castorbean Leaf	T5548 <i>Ricinus communis</i>	BI MA YE
Castorbean Oil	T5549 <i>Ricinus communis</i>	BI MA YOU
Castorbean Root	T5547 <i>Ricinus communis</i>	BI MA GEN
Castorbean Seed	T5550 <i>Ricinus communis</i>	BI MA ZI
Cat Thyme	T6362 <i>Teucrium marum</i>	MA SHI XIANG KE KE
Catch-fly	T5954 <i>Silene fortunei</i>	YING ZI CAO
Catchweed Bedstraw	T2830 <i>Galium aparine</i>	BA XIAN CAO

Catnip	T4413 <i>Nepeta cataria</i>	JIA JING JIE
Caucasian Buckler-fern*	T2278 <i>Dryopteris caucasica</i>	GAO JIA SUO LIN MAO JUE
Caucasian Comfrey	T6245 <i>Symphytum caucasicum</i>	XIN FEI CAO
Caucasian Corydalis*	T1711 <i>Corydalis caucasica</i>	GAO JIA SUO ZI JIN
Caucasian Gentian*	T2907 <i>Gentiana caucasa</i>	GAO JIA SUO LONG DAN
Caucasian Pittany*	T2166 <i>Dictamnus caucasicus</i>	GAO JIA SUO BAI XIAN
Caucasian Poppy*	T4624 <i>Papaver caucasicum</i>	GAO JIA SUO YING SU
Caucasian Scabious*	T5774 <i>Scabiosa caucasica</i>	GAO JIA SUO LAN PEN HUA
Caudate Milkwort	T5072 <i>Polygala caudata</i>	SHUI HUANG YANG MU
Caudate Sweetleaf Leaf	T6251 <i>Symplocos caudata</i>	SHAN FAN YE
Caudate Sweetleaf Root	T6250 <i>Symplocos caudata</i>	SHAN FAN GEN
Caulcescent Wildginger	T0724 <i>Asarum caulescens</i>	SHUANG YE XI XIN
Cauliflory Brassica*	T1015 <i>Brassica oleracea</i> var. <i>botrytis</i> subvar. <i>cauliflora</i>	JING HUA HUA YE CAI
Cauliflower	T1014 <i>Brassica oleracea</i> var. <i>botrytis</i>	HUA YE CAI
Cearen Rosewood*	T1998 <i>Dalbergia cearensis</i>	XI A LA HUANG TAN
Celandine Poppy	T6195 <i>Stylophorum diphyllum</i>	ER YE BAO YING SU
Celastrus Melodinus*	T4177 <i>Melodinus celastroides</i>	NAN SHE TENG ZHUANG SHAN CHENG
Celery Wormwood	T0662 <i>Artemisia apiacea</i> [Syn. <i>Artemisia caruifolia</i> ; <i>Artemisia caruifolia</i>]	QING HAO
Celtis-leaf Opilia*	T4515 <i>Opilia celtidifolia</i>	PU YE SHAN YOU ZI
Cempedak	T0710 <i>Artocarpus champeden</i>	YIN NI MIAN BAO GUO
Centipede	T5817 <i>Scolopendra subspinipes mutilans</i>	WU GONG
Central Asia Gentian	T2913 <i>Gentiana kaufmanniana</i>	ZHONG YA QIN JIAO
Central Asia Seabuckthorn*	T3257 <i>Hippophae rhamnoides</i> subsp. <i>turkestanica</i>	ZHONG YA SHA JI
Central-African Ancistrocladus*	T0451 <i>Ancistrocladus likoko</i>	ZHONG FEI GOU ZHI TENG
Central-African Poisonnut*	T6176 <i>Strychnos icaia</i>	ZHONG FEI MA QIAN
Cepaea Stonecrop*	T5853 <i>Sedum cepaea</i>	XI PA JING TIAN
Cera Chinensis Wax	T2420 <i>Ericerus pela</i>	CHONG BAI LA
Cernuous Clubmoss	T3970 <i>Lycopodium cernuum</i>	PU DI WU GONG
Ceylan Helminthostachys	T3190 <i>Helminthostachys zeylanica</i>	RU DI WU GONG
Ceylon Cinnamon	T1445 <i>Cinnamomum zeylanicum</i>	XI LAN ROU GUI
Ceylon Coca Shrub*	T2493 <i>Erythroxylum zeylanicum</i>	XI LAN GU KE
Ceylon Houndstongue	T1971 <i>Cynoglossum zeylanicum</i> [Syn. <i>Anchusa zeylanica</i> ; <i>Cynoglossum furcatum</i> ; <i>Cynoglossum formosanum</i>]	LIU LI CAO
Ceylon Hunteria	T3292 <i>Hunteria zeylanica</i>	ZI LAN SHU
Ceylon Persimmon Sawdust	T2216 <i>Diospyros ebenum</i>	WU MU XIE
Cha Nightshade*	T5994 <i>Solanum chacoense</i>	CHA QIE
Chachi Citrus	T1471 <i>Citrus chachiensis</i>	GAN
Chachi Citrus Pericarp	T1472 <i>Citrus chachiensis</i>	GAN PI
Chaffanjon Ampelopsis	T0425 <i>Ampelopsis chaffanjonii</i>	YU YE SHE PU TAO
Chaishou Thorowax	T1058 <i>Bupleurum chaishouii</i>	CHAI SHOU
Chamaedrys Germander	T6360 <i>Teucrium chamaedrys</i>	SHI CAN XIANG KE KE
Chamisson Ragweed	T0399 <i>Ambrosia chamissonis</i>	CHA MI SEN TUN CAO
Champa; Palillo (in local names)	T1159 <i>Campomanesia lineatifolia</i>	
Champac Michelia	T4210 <i>Michelia champaca</i>	HUANG MIAN GUI
Champignon	T3742 <i>Lentinus edodes</i>	XIANG XUN
Champion Bauhinia	T0877 <i>Bauhinia championii</i>	LONG XU TENG
Champion Wood Fern	T2279 <i>Dryopteris championii</i>	MAO GUAN ZHONG
Champman Gay-feather*	T3787 <i>Liatris champmanii</i>	CHA SHI SHE BIAN JU
Changpai Mountains Primrose	T5201 <i>Primula modesta</i>	CHANG BAI SHAN BAO CHUN
Charlock	T5959 <i>Sinapis arvensis</i>	YE OU BAI JIE
Chase Cocklebur*	T6836 <i>Xanthium chasei</i>	CAI SI CANG ER

Chaulmoogratree Seed	T3300 <i>Hydnocarpus anthelminticus</i>	DA FENG ZI
Chaxiong Ligusticum	T3825 <i>Ligusticum sinense</i> cv. <i>chaxiong</i>	CHA XIONG
Chayu St.John'swort	T3369 <i>Hypericum wightianum</i> subsp. <i>axillare</i>	CHA YU BIAN DI JIN
Cheliensis Goniothalamus	T3044 <i>Goniothalamus cheliensis</i>	GE NA XIANG
Chemens Phoebe*	T4815 <i>Phoebe chemensii</i>	CHE SHI NAN
Chengkou Mahonia	T4072 <i>Mahonia shenii</i>	CHENG KOU SHI DA GONG LAO
Chenille Plant, Red-hot Cat's-tail	T0035 <i>Acalypha hispida</i>	CU YING MAO TIE XIAN CAI
Cherimoya	T0505 <i>Annona cherimolia</i>	MAO YE FAN LI ZHI
Cherokee Rose Leaf	T5567 <i>Rosa laevigata</i>	JIN YING YE
Cherokee Rose Seed	T5568 <i>Rosa laevigata</i>	JIN YING ZI
Cherry Tomato*	T3963 <i>Lycopersicon esculentum</i> var. <i>cerasiforme</i>	YING TAO FAN QIE
Chestnut Sage	T5667 <i>Salvia castanea</i>	LI SE SHU WEI CAO
Chicken	T2837 <i>Gallus gallus domesticus</i>	JI ROU
Chicken Brain	T2836 <i>Gallus gallus domesticus</i>	JI NAO
Chicken's Gizzard Endothelium	T2838 <i>Gallus gallus domesticus</i>	JI NEI JIN
Chicken-feather Vegetable*	T5309 <i>Pterocladia tenuis</i>	JI MAO CAI
Chile Calceolaria*	T1110 <i>Calceolaria inamoena</i>	BU MEI HE BAO HUA
Chile Podocarpus*	T5036 <i>Podocarpus andina</i>	ZHI LI LUO HAN SONG
China Alyxia	T0383 <i>Alyxia sinensis</i>	LIAN ZHU TENG
China Amsonia	T0434 <i>Amsonia sinensis</i>	SHUI GAN CAO
China Douglas Fir	T5261 <i>Pseudotsuga sinensis</i>	HUANG SHAN
China Ixeris	T3547 <i>Ixeris chinensis</i>	SHAN KU MAI
China Paris	T4649 <i>Paris polyphylla</i> var. <i>chinensis</i>	HUA CHONG LOU
China Weasel-snout	T2825 <i>Galeobdolon chinense</i> [Syn. <i>Lamium chinense</i>]	XIAO YE ZHI MA
China Winterberry Currant	T5545 <i>Ribes fasciculatum</i> var. <i>chinense</i>	HUA CHA BIAO
Chinaberry-tree	T4155 <i>Melia azadirachta</i>	
Chinaberry-tree Bark	T4156 <i>Melia azedarach</i>	KU LIAN PI
Chinaberry-tree Flower	T4159 <i>Melia azedarach</i>	LIAN HUA
Chinaberry-tree Fruit	T4157 <i>Melia azedarach</i>	KU LIAN SHI
Chinaberry-tree Leaf*	T4158 <i>Melia azedarach</i>	KU LIAN YE
Chinaroot Greenbrier	T5976 <i>Smilax china</i> [Syn. <i>Smilax japonica</i>]	BA QIA
Chinese Alangium	T0281 <i>Alangium chinense</i>	BA JIAO FENG
Chinese Aloe Dried Juice	T0348 <i>Aloe vera</i> var. <i>chinensis</i>	BAN WEN LU HUI
Chinese Angelica	T0495 <i>Angelica sinensis</i>	DANG GUI
Chinese Arborvitae Branch	T6439 <i>Thuja orientalis</i> [Syn. <i>Platycladus orientalis</i> ; <i>Biota orientalis</i>]	CE BAI ZHI JIE
Chinese Arborvitae Kernel*	T0944 <i>Biota orientalis</i> [Syn. <i>Thuja orientalis</i> ; <i>Platycladus orientalis</i>]	BAI ZI REN
Chinese Arborvitae Leaf	T6440 <i>Thuja orientalis</i> [Syn. <i>Platycladus orientalis</i> ; <i>Biota orientalis</i>]	CE BAI YE
Chinese Artichoke	T6094 <i>Stachys tuberifera</i>	KUAI JING SHUI SU
Chinese Arundina	T0721 <i>Arundina chinensis</i>	ZHU YE LAN
Chinese Ash Bark	T2767 <i>Fraxinus chinensis</i>	BAI LA SHU
Chinese Aspen	T5144 <i>Populus adenopoda</i>	XIANG YE YANG
Chinese Astilbe	T0784 <i>Astilbe chinensis</i>	LUO XIN FU
Chinese Atractylodes	T0819 <i>Atractylodes chinensis</i>	BEI CANG ZHU
Chinese Atropanthe	T5822 <i>Scopolia sinensis</i>	TIAN PENG ZI
Chinese Aucuba	T0827 <i>Aucuba chinensis</i> ssp. <i>omeiensis</i>	TIAN JIAO BAN
Chinese Azalea	T5516 <i>Rhododendron molle</i>	NAO YANG HUA
Chinese Azalea Fruit	T5517 <i>Rhododendron molle</i>	NAO YANG HUA ZI
Chinese Bastardtoadflax	T6431 <i>Thesium chinense</i>	BAI RUI CAO
Chinese Bitterleaf*	T6714 <i>Vernonia chinense</i>	ZHONG GUO BAN JIU JU
Chinese Box Juvenile Leaf	T1092 <i>Buxus microphylla</i> var. <i>sinica</i>	HUANG YANG MU YE
Chinese Brake	T5295 <i>Pteris multifida</i>	FENG WEI CAO
Chinese Brake	T5298 <i>Pteris vittata</i>	WU GONG CAO
Chinese Bretschneidera	T1025 <i>Bretschneidera sinensis</i>	BO LE SHU

Chinese Buckeye	T0201 <i>Aesculus chinensis</i>	QI YE SHU
Chinese Cedar	T1867 <i>Cryptomeria fortunei</i>	LIU SHAN
Chinese Cedrela*	T1278 <i>Cedrela sinensis</i>	ZHONG GUO YANG CHUN
Chinese Chestnut	T1254 <i>Castanea mollissima</i>	BAN LI
Chinese Chestnut Bast	T1256 <i>Castanea mollissima</i>	LI SHU PI
Chinese Cinquefoil	T5181 <i>Potentilla chinensis</i>	WEI LING CAI
Chinese Clematis	T1545 <i>Clematis chinensis</i>	WEI LING XIAN
Chinese Clinopodium	T1573 <i>Clinopodium chinense</i>	FENG LUN CAI
Chinese Common Jasminorange	T4318 <i>Murraya exotica</i>	ZHONG HUA JIU LI XIANG
Chinese Coriaria	T1692 <i>Coriaria sinica</i> [Syn. <i>Coriaria nepalensis</i>]	MA SANG
Chinese Coriaria Leaf	T1693 <i>Coriaria sinica</i> [Syn. <i>Coriaria nepalensis</i>]	MA SANG YE
Chinese Corktree	T4791 <i>Phellodendron chinense</i>	HUANG PI SHU
Chinese Corydalis	T1713 <i>Corydalis cheilanthifolia</i>	HUA ZI JIN
Chinese Cricket	T3066 <i>Gryllulus chinensis</i>	XI SHUAI
Chinese Crinum	T1796 <i>Crinum asiaticum</i> var. <i>sinicum</i>	WEN SHU LAN
Chinese Crossostephium Root	T1812 <i>Crossostephium chinense</i>	FU RONG JU GEN
Chinese Cryptocarya	T1862 <i>Cryptocarya chinensis</i>	HOU KE GUI
Chinese Cryptolepis	T1866 <i>Cryptolepis sinensis</i>	BAI YE TENG
Chinese Date	T6916 <i>Ziziphus jujuba</i>	DA ZAO
Chinese Desmos	T2136 <i>Desmos cochinchinensis</i> [Syn. <i>Desmos chinensis</i>]	JIA YING ZHAO
Chinese Dodder Seed	T1912 <i>Cuscuta chinensis</i>	TU SI ZI
Chinese Dregea	T2262 <i>Dregea sinensis</i>	KU SHENG
Chinese Dunnia	T2294 <i>Dunnia sinensis</i>	XIU QIU QIAN CAO
Chinese Dwarf Cherry Seed	T5223 <i>Prunus humilis</i> [Syn. <i>Cerasus humilis</i>]	OU LI REN
Chinese Eaglewood	T0555 <i>Aquilaria sinensis</i>	BAI MU XIANG
Chinese Elm Bark	T6596 <i>Ulmus parvifolia</i>	LANG YU PI
Chinese Ephedra	T2380 <i>Ephedra sinica</i>	MA HUANG
Chinese Ephedra Root	T2381 <i>Ephedra sinica</i>	MA HUANG GEN
Chinese Eupatorium	T2555 <i>Eupatorium chinense</i>	HUA ZE LAN
Chinese Fevervine	T4576 <i>Paederia chinensis</i>	ZHONG HUA JI SHI TENG
Chinese Floweringquince	T1343 <i>Chaenomeles sinensis</i>	MU GUA
Chinese Forgetmenot	T1967 <i>Cynoglossum amabile</i>	GOU SHI HUA
Chinese Galangal	T0354 <i>Alpinia chinensis</i>	LIAN JIANG
Chinese Gambirplant	T6633 <i>Uncaria sinensis</i>	HUA GOU TENG
Chinese Globeflower	T6552 <i>Trollius chinensis</i> [Syn. <i>Trollius asiaticus</i> var. <i>chinensis</i>]	JIN LIAN HUA
Chinese Golden Larch	T5256 <i>Pseudolarix amabilis</i> [Syn. <i>Larix amabilis</i> ; <i>Pseudolarix kaempferi</i>]	TU JING PI
Chinese Goldthread	T1662 <i>Coptis chinensis</i>	HUANG LIAN
Chinese Hawthorn	T1775 <i>Crataegus pinnatifida</i>	SHAN ZHA
Chinese Hawthorn Flower	T1776 <i>Crataegus pinnatifida</i>	SHAN ZHA HUA
Chinese Hawthorn Leaf	T1777 <i>Crataegus pinnatifida</i>	SHAN ZHA YE
Chinese Hibiscus Flower	T3242 <i>Hibiscus rosa-sinensis</i>	FU SANG HUA
Chinese Hibiscus Leaf	T3243 <i>Hibiscus rosa-sinensis</i>	FU SANG YE
Chinese Holly Bark	T3389 <i>Ilex cornuta</i>	GOU GU SHU PI
Chinese Holly Leaf	T3390 <i>Ilex cornuta</i>	GOU GU YE
Chinese Honeylocust	T2978 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]	ZAO JIA
Chinese Honeylocust Leaf	T2981 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]	ZAO JIA YE
Chinese Honeylocust Root-bark	T2980 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]	ZAO JIA GEN PI
Chinese Honeylocust Thorn	T2979 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]	ZAO JIA CI
Chinese Hydrangea	T3303 <i>Hydrangea chinensis</i>	ZHONG GUO XIU QIU
Chinese Incarvillea	T3420 <i>Incarvillea sinensis</i>	JIAO HAO
Chinese Inula	T3428 <i>Inula britannica</i> var. <i>chinensis</i>	ZHONG GUO XUAN FU HUA
Chinese Iris	T3464 <i>Iris lactea</i> var. <i>chinensis</i> [Syn. <i>Iris pallasii</i> var. <i>chinensis</i>]	MA LIN ZI

Chinese Iris	T3465 <i>Iris pallasii</i> var. <i>chinensis</i>	MA LIN
Chinese Ivy	T3113 <i>Hedera nepalensis</i> var. <i>sinensis</i>	CHANG CHUN TENG
Chinese Ixora	T3549 <i>Ixora chinensis</i>	LONG CHUAN HUA
Chinese Juniper	T5639 <i>Sabina chinensis</i>	YUAN BAI
Chinese Juniper Leaf	T5987 <i>Sobina chinensis</i>	HUI ⁽⁴⁾ YE
Chinese Knotweed	T5100 <i>Polygonum chinense</i>	HUO TAN MU CAO
Chinese Ligusticum	T3824 <i>Ligusticum sinense</i>	GAO BEN
Chinese Lizardtail	T5750 <i>Saururus chinensis</i>	SAN BAI CAO
Chinese Lobelia	T3898 <i>Lobelia chinensis</i> [Syn. <i>Lobelia radicans</i>]	BAN BIAN LIAN
Chinese Loropetalum	T3926 <i>Loropetalum chinense</i>	JI MU
Chinese Lycoris	T3984 <i>Lycoris chinensis</i>	ZHONG GUO SHI SUAN
Chinese Magnolia Flower	T4036 <i>Magnolia coco</i>	YE HE HUA
Chinese Magnoliavine	T5791 <i>Schisandra chinensis</i>	WU WEI ZI
Chinese Mahonia	T4062 <i>Mahonia fortunei</i>	XI YE GONG LAO MU
Chinese Mahonia Leaf	T4063 <i>Mahonia fortunei</i>	XI YE GONG LAO YE
Chinese Milkvetch	T0805 <i>Astragalus sinicus</i>	ZI YUN YING
Chinese Milkvetch Seed	T0806 <i>Astragalus sinicus</i>	ZI YUN YING ZI
Chinese Milkwort	T5073 <i>Polygala chinensis</i> [Syn. <i>Polygala glomerata</i>]	DA JIN NIU CAO
Chinese Morina	T4279 <i>Morina chinensis</i>	YUAN E CI XU DUAN
Chinese Mulberry	T4293 <i>Morus cathayana</i>	HUA SANG
Chinese Narcissus Bulb	T4384 <i>Narcissus tazetta</i> var. <i>chinensis</i>	SHUI XIAN GEN
Chinese Narcissus Flower	T4385 <i>Narcissus tazetta</i> var. <i>chinensis</i>	SHUI XIAN HUA
Chinese Nardostachys	T4386 <i>Nardostachys chinensis</i>	GAN SONG
Chinese Onion	T0313 <i>Allium chinense</i>	QIAO TOU
Chinese Orthodon	T4304 <i>Mosla chinensis</i> [Syn. <i>Orthodon chinensis</i>]	SHI XIANG RU
Chinese Osbeckia	T4549 <i>Osbeckia chinensis</i>	JIN JIN XIANG
Chinese Pearleaf Crabapple	T4086 <i>Malus asiatica</i>	LIN QIN
Chinese Peashrub Root	T1191 <i>Caragana sinica</i>	JIN QUE GEN
Chinese Photinia	T4828 <i>Photinia serrulata</i>	SHI NAN
Chinese Pink	T2143 <i>Dianthus chinensis</i>	SHI ZHU
Chinese Pistache	T4979 <i>Pistacia chinensis</i>	HUANG LIAN YA
Chinese Plumyew Branch-leaf	T1323 <i>Cephalotaxus sinensis</i> [Syn. <i>Cephalotaxus harringtonia</i> var. <i>sinensis</i>]	ZHONG GUO CU FEI ZHI YE
Chinese Plumyew Seed	T1324 <i>Cephalotaxus sinensis</i> [Syn. <i>Cephalotaxus harringtonia</i> var. <i>sinensis</i>]	ZHONG GUO CU FEI ZI
Chinese Podocarpus Leaf	T5045 <i>Podocarpus macrophyllus</i> var. <i>maki</i>	DUAN YE LUO HAN SONG YE
Chinese Podocarpus Seed	T5044 <i>Podocarpus macrophyllus</i> var. <i>maki</i>	DUAN YE LUO HAN SONG SHI
Chinese Pothos	T5189 <i>Pothos chinensis</i>	SHI GAN ZI
Chinese Privet	T3830 <i>Ligustrum sinense</i>	NV ZHEN XIAO LA SHU
Chinese Pulsatilla	T5325 <i>Pulsatilla chinensis</i>	BAI TOU WENG
Chinese Pyrola	T5345 <i>Pyrola calliantha</i> [Syn. <i>Pyrola rotundifolia</i> ssp. <i>chinensis</i>]	LU XIAN CAO
Chinese Rose	T5562 <i>Rosa chinensis</i>	YUE JI HUA
Chinese Sage	T5692 <i>Salvia sinica</i>	NI DAN SHEN
Chinese Seabuckthorn*	T3256 <i>Hippophae rhamnoides</i> subsp. <i>sinensis</i>	ZHONG GUO SHA JI
Chinese Seriphidium	T5920 <i>Seriphidium cinum</i> [Syn. <i>Artemisia cina</i>]	HUI HAO
Chinese Silkvine Root-bark	T4729 <i>Periploca sepium</i>	XIANG JIA PI
Chinese Silvergrass	T4254 <i>Miscanthus sinensis</i>	MANG JING
Chinese Siphonostegia	T5966 <i>Siphonostegia chinensis</i>	YIN XING CAO
Chinese Soapberry Leaf	T5721 <i>Sapindus mukorossi</i>	WU HUAN ZI YE
Chinese Soapberry Peel	T5720 <i>Sapindus mukorossi</i>	WU HUAN ZI PI
Chinese Soapberry Seed	T5719 <i>Sapindus mukorossi</i>	WU HUAN ZI
Chinese Spikemoss	T5867 <i>Selaginella sinensis</i>	ZHONG HUA JUAN BAI
Chinese Spiranthes*	T6087 <i>Spiranthes sinensis</i>	ZHONG GUO SHOU CAO

Chinese St.John'swort Fruit	T3344 <i>Hypericum chinense</i>	JIN SI TAO GUO SHI
Chinese Star Jasmine	T6484 <i>Trachelospermum jasminoides</i>	LUO SHI TENG
Chinese Stauntonvine	T6099 <i>Stauntonia chinensis</i>	YE MU GUA
Chinese Stellera	T6105 <i>Stellera chamaejasme</i>	LANG DU
Chinese Stephania	T6133 <i>Stephania sinica</i>	JIN BU HUAN
Chinese Sumac Fruit	T5531 <i>Rhus chinensis</i> [Syn. <i>Rhus semialata</i>]	YAN FU ZI
Chinese Sumac Leaf	T5530 <i>Rhus chinensis</i> [Syn. <i>Rhus semialata</i>]	YAN FU YE
Chinese Swallowwort	T1954 <i>Cynanchum chinense</i>	E RONG TENG
Chinese Sweetleaf	T6252 <i>Symplocos chinensis</i>	HUA SHAN FAN
Chinese Swertia*	T6214 <i>Swertia chinensis</i>	DANG YAO
Chinese Tallowtree Bark	T5723 <i>Sapium sebiferum</i>	WU JIU MU GEN PI
Chinese Tallowtree Leaf	T5724 <i>Sapium sebiferum</i>	WU JIU YE
Chinese Tamarisk	T6286 <i>Tamarix chinensis</i>	CHENG LIU
Chinese Taro	T0333 <i>Alocasia cucullata</i> [Syn. <i>Arum cucullatum</i>]	JIAN WEI YU
Chinese Thermopsis	T6426 <i>Thermopsis chinensis</i>	XIAO YE YE JUE MING
Chinese Thistle	T1448 <i>Cirsium chinense</i>	KU AO
Chinese Thorowax	T1059 <i>Bupleurum chinense</i>	CHAI HU
Chinese Tinospora*	T6468 <i>Tinospora sinensis</i>	ZHONG HUA QING NIU DAN
Chinese Toon Root-bast	T6475 <i>Toona sinensis</i>	CHUN BAI PI
Chinese Trumpetreepeper	T1160 <i>Campsis grandiflora</i>	ZI WEI
Chinese Trumpetreepeper Stem-leaf	T1161 <i>Campsis grandiflora</i>	ZI WEI JING YE
Chinese Tupelo	T4457 <i>Nyssa sinensis</i>	ZI SHU
Chinese Tupistra	T6566 <i>Tupistra chinensis</i>	KAI KOU JIAN
Chinese Umbrellaleaf	T2232 <i>Diphylleia sinensis</i>	WO ER QI
Chinese Wampee Leaf	T1538 <i>Clausena lansium</i>	HUANG PI YE
Chinese Wampee Root	T1537 <i>Clausena lansium</i>	HUANG PI GEN
Chinese Waxgourd Peel	T0894 <i>Benincasa hispida</i>	DONG GUA PI
Chinese Waxgourd Seed	T0895 <i>Benincasa hispida</i>	DONG GUA ZI
Chinese Waxmyrtle	T4348 <i>Myrica rubra</i>	YANG MEI
Chinese Waxmyrtle Bark	T4349 <i>Myrica rubra</i>	YANG MEI SHU PI
Chinese Wedelia	T6814 <i>Wedelia chinensis</i> [Syn. <i>Solidago chinensis</i> ; <i>Wedelia calendulacea</i>]	PENG QI JU
Chinese Weeping Cypress Leaf	T1896 <i>Cupressus funebris</i>	BAI SHU YE
Chinese White Poplar	T5161 <i>Populus tomentosa</i>	MAO BAI YANG
Chinese Wingnut	T5308 <i>Pterocarya stenoptera</i>	MA LIU YE
Chinese Wisteria	T6826 <i>Wisteria sinensis</i>	ZI TENG
Chinese Wisteria Seed	T6827 <i>Wisteria sinensis</i>	ZI TENG ZI
Chinese Wolfberry Fruit	T3958 <i>Lycium chinense</i>	GOU QI ZI
Chinese Wolfberry Leaf	T3957 <i>Lycium chinense</i>	GOU QI YE
Chinese Wolfberry Root-bark	T3956 <i>Lycium chinense</i>	GOU QI GEN PI
Chinese Yew	T6310 <i>Taxus chinensis</i>	HONG DOU SHAN
Chirata Swertia*	T6215 <i>Swertia chirata</i>	ZHAI RUI TA ZHANG YA CAI
Chirita	T1370 <i>Chirita micronusa</i>	CHUN ZHU JU TAI
Chittagong Chickrassy	T1410 <i>Chukrasia tabularis</i>	MA LIAN
Chive-like	T0319 <i>Allium schoenoprasum</i>	XI XIANG CONG
Chloro-white Fibraurea*	T2714 <i>Fibraurea chloroleuca</i>	LV BAI TIAN XIAN TENG
Cholla	T4519 <i>Opuntia dillenii</i>	XIAN REN ZHANG
Chongming Many-flowered May-apple*	T2303 <i>Dysosma subrosea</i>	CHONG MING BA JIAO LIAN
Christina Loosestrife	T3998 <i>Lysimachia christinae</i>	DA JIN QIAN CAO
Chrusanthemum-like Groundsel	T5884 <i>Senecio chrysanthemoides</i>	TU SAN QI
Chuandian Soapberry Seed	T5717 <i>Sapindus delavayi</i> [Syn. <i>Pancovia delavayi</i>]	PI SHAO ZI
Chuanxiong (Wallich Ligusticum)	T3820 <i>Ligusticum chuanxiong</i> [Syn. <i>Ligusticum wallichii</i>]	CHUAN XIONG
Chuchuhuasc Mayten*	T4130 <i>Maytenus chuchuhuasca</i>	QIU SHI MEI DENG MU

Chulan Tree	T1374 <i>Chloranthus spicatus</i>	JIN SU LAN
Chu-lan Tree	T0240 <i>Aglaiia odorata</i>	MI ZI LAN
Chun's Spicebush	T3849 <i>Lindera chunii</i>	DING HU DIAO ZHANG
Cicadawingvine	T5847 <i>Securidaca inappendiculata</i>	CHAN YI TENG
Cigarbox Cedrela	T1277 <i>Cedrela odorata</i>	YAN YANG CHUN
Ciliate Bugle	T0262 <i>Ajuga ciliata</i>	JIN GU CAO
Ciliate Catnip	T4414 <i>Nepeta ciliaris</i>	YUAN MAO JING JIE
Ciliate Hornpoppy*	T2968 <i>Glaucium fimbriigerum</i>	HAI YING SU
Ciliate Sunflower*	T3148 <i>Helianthus ciliaris</i>	YUAN MAO XIANG RI KUI
Cinereous Thermopsis*	T6427 <i>Thermopsis cinerea</i>	HUI HUANG HUA
Cinnabar Dracaena	T2252 <i>Dracaena cinnabari</i>	ZHU HONG LONG XUE SHU
Cinnabar Persimmon*	T2215 <i>Diospyros cinnabarina</i>	ZHU HONG SHI
Cinnabar-red	T6491 <i>Trametes cinnabarina</i> [Syn. <i>Polyporus cinnabarinus</i> ; <i>Boletus cinnabarinus</i>]	HONG SHUAN JUN
Cinnamomi-leaf Phoebe*	T4816 <i>Phoebe cinnamomifolia</i>	YU GUO XIAO YE NAN
Circinate Hemsley Monkshood	T0100 <i>Aconitum hemsleyanum</i> var. <i>circinacum</i>	QUAN JU GUA YE WU TOU
Circinate Solenanthus	T6021 <i>Solenanthus circinatus</i>	CHANG RUI LIU LI CAO
Circularity St. John'swort*	T3339 <i>Hypericum annulatum</i>	HUAN ZHUANG JIN SI TAO
Citron Daylily	T3192 <i>Hemerocallis citrina</i>	HUANG HUA CAI
Citronella-grass	T1944 <i>Cymbopogon nardus</i>	JING XIANG MAO
Citrusleaf Glycosmis	T3006 <i>Glycosmis citrifolia</i>	SHAN XIAO JU
Civet	T6800 <i>Viverra zibetha</i>	LING MAO XIANG
Clammy Hopseedbush Leaf	T2243 <i>Dodonaea viscosa</i>	CHE SANG ZI YE
Clary	T5691 <i>Salvia sclarea</i>	NAN OU DAN SHEN
Clasping Heliotrope	T3167 <i>Heliotropium amplexicaule</i>	BAO JING TIAN JIE CAI
Clematis Asiabell	T1597 <i>Codonopsis clematidea</i>	XIN JIANG DANG SHEN
Clethra Loosestrife	T3999 <i>Lysimachia clethroides</i>	ZHEN ZHU CAI
Cliff Ephedra	T2379 <i>Ephedra saxatilis</i>	ZANG MA HUANG
Cliffrose	T1766 <i>Cowania mexicana</i>	XUAN YA MEI GUI
Climbing Corydalis	T1714 <i>Corydalis claviculata</i>	BANG ZHUANG ZI JIN
Climbing Entada Seed	T2363 <i>Entada phaseoloides</i> [Syn. <i>Lens phaseoloides</i>]	KE TENG ZI
Climbing Fig	T2723 <i>Ficus pumila</i>	BI LI
Climbing Fumitory	T0183 <i>Adlumia cirrhosa</i> [Syn. <i>Adlumia fungosa</i>]	XUN ZHUANG SHAN YUAN CAO
Climbing Gambirplant	T6631 <i>Uncaria scandens</i> [Syn. <i>Nauclea pilosa</i> ; <i>Uruparia pilosa</i> ; <i>Uncaria pilosa</i>]	PAN ZHI GOU TENG
Climbing Groundsel	T5907 <i>Senecio scandens</i> [Syn. <i>Senecio chinensis</i>]	QIAN LI GUANG
Climbing Hempweed	T4230 <i>Mikania scandens</i>	WEI GAN JU
Climbing Jewelvine	T2123 <i>Derris scandens</i>	PAN YUAN YU TENG
Climbing Premna	T5195 <i>Premna subscandens</i>	PAN YUAN CHOU HUANG JING
Clove Tree	T6263 <i>Syzygium aromaticum</i> [Syn. <i>Eugenia caryophyllata</i>]	DING XIANG
Cluster Concave-top Alga*	T3715 <i>Laurencia caespitosa</i>	CU SHENG AO DING ZAO
Coagulate Withania	T6828 <i>Withania coagulans</i>	NING GU SHUI QIE
Coastal Glehnia	T2983 <i>Glehnia littoralis</i>	BEI SHA SHEN
Coastal Waterhyssop	T0852 <i>Bacopa monniera</i>	JIA MA CHI XIAN
Coca Shrub	T2491 <i>Erythroxylum coca</i>	GU KE
Cocculus leaebe	T1587 <i>Cocculus leaebe</i>	
Cochinchina Cudrania	T1884 <i>Cudrania cochinchinensis</i>	GOU JI
Cochinchina Homalium	T3275 <i>Homalium cochinchinensis</i>	TIAN LIAO MU
Cochinchina Mucuna*	T4309 <i>Mucuna cochinchinensis</i>	MAO DOU
Cochinchinese Asparagus	T0746 <i>Asparagus cochinchinensis</i> [Syn. <i>Asparagus lucidus</i>]	TIAN MEN DONG
Cochinhina Momordica Root	T4264 <i>Momordica cochinchinensis</i>	MU BIE GEN
Cochinhina Momordica Seed	T4265 <i>Momordica cochinchinensis</i>	MU BIE ZI
Cockroach	T0950 <i>Blatta orientalis</i>	ZHANG LANG

Cocoa	T6423 <i>Theobroma cacao</i>	KE KE
Coconut	T1591 <i>Cocos nucifera</i>	YE ZI
Coconut Albumen	T1593 <i>Cocos nucifera</i>	YE ZI RANG
Coconut Oil	T1594 <i>Cocos nucifera</i>	YE ZI YOU
Coconut Root-bark	T1592 <i>Cocos nucifera</i>	YE ZI PI
Coco-plum	T1401 <i>Chrysobalanus icaco</i>	YI KOU KE MEI
Cocoxochitl	T1995 <i>Dahlia coccinea</i>	HONG DA LI HUA
Coffee Senna	T1241 <i>Cassia occidentalis</i>	WANG JIANG NAN
Coffee Senna Seed	T1242 <i>Cassia occidentalis</i>	WANG JIANG NAN ZI
Cogon Satintail	T3415 <i>Imperata cylindrica</i>	YIN DU BAI MAO
Coigne Grape*	T6795 <i>Vitis coignetiae</i>	XIE PU TAO
Coiledleaf Pearleverlasting	T0445 <i>Anaphalis contorta</i>	XUAN YE XIANG QING
Colchicum Ivy*	T3111 <i>Hedera colchica</i>	QIU SHUI XIAN CHANG CHUN TENG
Collett Yam	T2194 <i>Dioscorea collettii</i>	CHA RUI SHU YU
Collybia Albuminosa Sporocarp	T1623 <i>Collybia albuminosa</i>	JI ZONG
Colombia Croton*; Almisclillo	T1855 <i>Croton schiedeanus</i>	GE LUN BI YA BA DOU
Colophony	T4917 <i>Pinus massoniana</i>	SONG XIANG
Colorate Ardisia*	T0592 <i>Ardisia colorata</i>	YOU SE ZI JIN NIU
Colored Mistletoe	T6775 <i>Viscum coloratum</i>	HU JI SHENG
Colorful Bitterleaf	T6715 <i>Vernonia colorata</i>	YOU SE BAN JIU JU
Columbia Xylopia*	T6852 <i>Xylopia columbiana</i>	GE LUN BI YA MU BAN SHU
Combined Spicebush	T3854 <i>Lindera strychnifolia</i> [Syn. <i>Lindera aggregata</i>]	WU YAO
Comfrey	T6246 <i>Symphytum officinale</i>	XI MEN FEI CAO
Commerson Nightshade*	T5995 <i>Solanum commersonii</i>	KE MO SEN QIE
Common Achyranthes	T0071 <i>Achyranthes aspera</i>	TU NIU XI
Common Allemanda	T0307 <i>Allemanda cathartica</i>	RUAN ZHI HUANG CHAN
Common Alstonia	T0374 <i>Alstonia scholaris</i>	XIANG PI MU
Common Andrographis	T0457 <i>Andrographis paniculata</i> [Syn. <i>Justicia paniculata</i>]	CHUAN XIN LIAN
Common Anemarrhena	T0462 <i>Anemarrhena asphodeloides</i>	ZHI MU
Common Anisodus	T0501 <i>Anisodus luridus</i>	SAI LANG DANG
Common Anodendron	T0514 <i>Anodendron affine</i>	SHAN TENG
Common Antiaris	T0533 <i>Antiaris toxicaria</i> [Syn. <i>Ambora toxicaria</i>]	JIAN XUE FENG HOU
Common Arnebia	T0649 <i>Arnebia guttata</i>	JIA ZI CAO
Common Artocarpus*	T0714 <i>Artocarpus incisa</i> [Syn. <i>Artocarpus communis</i>]	MIAN BAO GUO
Common Aspidistra	T0759 <i>Aspidistra elatior</i>	ZHI ZHU BAO DAN
Common Atlantic Octopus	T4478 <i>Octopus vulgaris</i>	ZHANG YU
Common Atropa	T0825 <i>Atropa belladonna</i>	DIAN QIE
Common Aucklandia (Costustoot)	T5758 <i>Saussurea lappa</i> [Syn. <i>Aucklandia lappa</i>]	MU XIANG
Common Banana	T4331 <i>Musa paradisiaca</i> var. <i>sapientum</i> [Syn. <i>Musa sapientum</i>]	XIANG JIAO
Common Baphicacanthus Leaf	T0867 <i>Baphicacanthus cusia</i> [Syn. <i>Strobilanthes cusia</i>]	MA LAN YE
Common Baphicacanthus Root	T0866 <i>Baphicacanthus cusia</i> [Syn. <i>Strobilanthes cusia</i>]	MA LAN GEN
Common Beet	T0928 <i>Beta vulgaris</i>	TIAN CAI
Common Bitterfigwort	T4884 <i>Picria felterrae</i>	KU XUAN SHEN
Common Bletilla	T0955 <i>Bletilla striata</i>	BAI JI
Common Bombax Flower	T0973 <i>Bombax malabaricum</i> [Syn. <i>Gossampinus malabarica</i>]	MU MIAN HUA
Common Borage	T0981 <i>Borago officinalis</i>	LIU LI JU
Common Broadlily	T1574 <i>Clintonia alpina</i>	LEI GONG QI
Common Bruguiera	T1039 <i>Bruguiera gymnorrhiza</i>	MU LAN
Common Buckthorn	T5454 <i>Rhamnus cathartica</i>	YAO SHU LI
Common Buckwheat	T2658 <i>Fagopyrum esculentum</i>	QIAO MAI
Common Buckwheat Stem	T2659 <i>Fagopyrum esculentum</i>	QIAO MAI JIE
Common Burreed	T6062 <i>Sparganium stoloniferum</i>	SAN LENG

Common Butterbush	T1316 <i>Cephalanthus occidentalis</i>	FENG XIANG SHU YE
Common Camptotheca	T1162 <i>Camptotheca acuminata</i>	XI SHU
Common Caper	T1180 <i>Capparis spinosa</i>	LAO SHU GUA
Common Cardaria	T1195 <i>Cardaria draba</i>	QUN XIN CAI
Common Carpesium	T1210 <i>Carpesium abrotanoides</i>	TIAN MING JING
Common Carpesium Fruit	T1211 <i>Carpesium abrotanoides</i>	TIAN MING JING GUO
Common Cashew Fruit	T0438 <i>Anacardium occidentale</i>	DU XIAN ZI
Common Cerberustree	T1330 <i>Cerbera manghas</i>	NIU XIN QIE ZI
Common Ceriops	T1336 <i>Ceriops tagal</i> [Syn. <i>Rhizophora tagal</i>]	JIAO GUO MU
Common Chamomile	T0523 <i>Anthemis nobilis</i>	GAO GUI CHUN HUANG JU
Common Chicory	T1415 <i>Cichorium intybus</i>	JU QU
Common Cissampelos	T1452 <i>Cissampelos pareira</i>	XI SHENG TENG
Common Cnidium	T1582 <i>Cnidium monnieri</i>	SHE CHUANG ZI
Common Cocklebur*	T6838 <i>Xanthium commune</i>	PU TONG CANG ER
Common Cockscomb Flower	T1299 <i>Celosia cristata</i>	JI GUAN HUA
Common Cockscomb Seed	T1297 <i>Celosia cristata</i>	JI GUAN ZI
Common Coelogyne	T1606 <i>Coelogyne ovalis</i>	BEI MU LAN
Common Coleostephus	T1618 <i>Coleostephus myconis</i>	QIAO GUAN JU
Common Coltsfoot	T6574 <i>Tussilago farfara</i>	KUAN DONG HUA
Common Crapemyrtle Flower	T3671 <i>Lagerstroemia indica</i>	ZI WEI HUA
Common Crapemyrtle Leaf	T3672 <i>Lagerstroemia indica</i>	ZI WEI YE
Common Crapemyrtle Root	T3670 <i>Lagerstroemia indica</i>	ZI WEI GEN
Common Cruculigo	T1901 <i>Curculigo orchoides</i>	XIAN MAO
Common Cyanotis	T1922 <i>Cyanotis vaga</i>	LU SHUI CAO
Common Dayflower	T1633 <i>Commelina communis</i>	YA ZHI CAO
Common Devilpepper	T5423 <i>Rauvolfia verticillata</i>	LUO FU MU
Common Devilpepper Stem and Leaf	T5424 <i>Rauvolfia verticillata</i>	LUO FU MU JING YE
Common Duckwood	T3738 <i>Lemna minor</i>	FU PING
Common Dysosma	T2305 <i>Dysosma versipellis</i> [Syn. <i>Podophyllum versipelle</i>]	GUI JIU
Common Elsholtzia	T2341 <i>Elsholtzia ciliata</i>	BAN BIAN SU
Common Enhydra	T2361 <i>Enhydra fluctuans</i>	ZHAO JU
Common Euscaphis	T2636 <i>Euscaphis japonica</i>	YE YA CHUN
Common Evolvulus	T2649 <i>Evolvulus alsinoides</i>	TU DING GUI
Common Fenugreek	T6528 <i>Trigonella foenum-graecum</i>	HU LU BA
Common Fibraurea	T2715 <i>Fibraurea recisa</i>	TIAN XIAN TENG
Common Figwort	T5829 <i>Scrophularia nodosa</i>	LIN SHENG XUAN SHEN
Common Flax	T3859 <i>Linum usitatissimum</i>	YA MA
Common Flax Seed	T3860 <i>Linum usitatissimum</i>	YA MA ZI
Common Floweringquince	T1342 <i>Chaenomeles lagenaria</i> [Syn. <i>Chaenomeles speciosa</i>]	QIU MU GUA
Common Fordia	T2752 <i>Fordia cauliflora</i>	GAN HUA DOU
Common Four-o'clock Leaf	T4253 <i>Mirabilis jalapa</i>	ZI MO LI YE
Common Four-o'clock Root	T4252 <i>Mirabilis jalapa</i>	ZI MO LI GEN
Common Foxglove	T2177 <i>Digitalis purpurea</i>	MAO DI HUANG
Common Ginger Dried Rhizome	T6909 <i>Zingiber officinale</i>	GAN JIANG
Common Goatsrue	T2824 <i>Galega officinalis</i>	SHAN YANG DOU
Common Goldenrod	T6024 <i>Solidago virgaurea</i> var. <i>leiocarpa</i> [Syn. <i>Solidago decurrens</i>]	YI ZHI HUANG HUA
Common Gold-hair Moss*	T5133 <i>Polytrichum commune</i>	JIN FA XIAN
Common Gorse	T6590 <i>Ulex europaeus</i>	JING DOU
Common Gromwell	T3882 <i>Lithospermum officinale</i>	BAI GUO ZI CAO
Common Groundsel	T5915 <i>Senecio vulgaris</i>	OU ZHOU QIAN LI GUANG
Common Hawthorn	T1773 <i>Crataegus monogyna</i>	DAN ZI SHAN ZHA
Common Heron's Bill	T2438 <i>Erodium stephanianum</i>	MANG NIU ER MIAO
Common Hoarhound	T4114 <i>Marrubium vulgare</i>	OU XIA ZHI CAO

Common Hogfennel	T0480 <i>Angelica decursiva</i> [Syn. <i>Peucedanum decursivum</i>]	QIAN HU
Common Hoptree	T5282 <i>Ptelea trifoliata</i>	YU JU
Common Houndstongue	T1969 <i>Cynoglossum officinale</i>	YAO YONG DAO TI HU
Common Hyacinth	T3297 <i>Hyacinthus orientalis</i>	FENG XIN ZI
Common Indianmulberry	T4286 <i>Morinda umbellata</i>	YANG JIAO TENG
Common Japanese Clubmoss	T3973 <i>Lycopodium japonicum</i> [Syn. <i>Lycopodium clavatum</i>]	SHEN JIN CAO
Common Jasminorange	T4323 <i>Murraya paniculata</i> [Syn. <i>Chalcas paniculata</i>]	JIU LI XIANG
Common Jasminorange Root	T4324 <i>Murraya paniculata</i> [Syn. <i>Chalcas paniculata</i>]	JIU LI XIANG GEN
Common Javatea	T4542 <i>Orthosiphon wulfenioides</i> [Syn. <i>Coleus wulfenioides</i>]	JI JIAO SHEN
Common Juniper	T3583 <i>Juniperus communis</i>	OU ZHOU CI BAI
Common Juniper Variaty*	T3584 <i>Juniperus communis</i> var. <i>depressa</i>	OU ZHOU CI BAI BIAN ZHONG
Common Knotgrass	T5098 <i>Polygonum aviculare</i>	BIAN XU
Common Lamiophlomis	T3679 <i>Lamiophlomis rotata</i> [Syn. <i>Phlomis rotata</i>]	DU YI WEI
Common Lantana	T3687 <i>Lantana camara</i>	WU SE MEI
Common Leafflower	T4843 <i>Phyllanthus urinaria</i>	YE XIA ZHU
Common Lentil	T3741 <i>Lens culinaris</i>	BING DOU
Common Lilac	T6262 <i>Syringa vulgaris</i>	OU DING XIANG
Common Lime	T6461 <i>Tilia vulgaris</i>	DUAN SHU
Common Lophatherum	T3920 <i>Lophatherum gracile</i>	DAN ZHU YE
Common Lophatherum Root	T3921 <i>Lophatherum gracile</i>	DAN ZHU YE GEN
Common Macaranga	T4013 <i>Macaranga tanarius</i>	XUE TONG
Common Marsharigold	T1137 <i>Caltha palustris</i>	MA TI YE
Common Mayapple	T5058 <i>Podophyllum peltatum</i>	DUN YE GUI JIU
Common Mesua	T4203 <i>Mesua ferrea</i>	TIE LI MU
Common Milkwort*	T5089 <i>Polygala vulgaris</i>	PU TONG YUAN ZHI
Common Monkshood	T0084 <i>Aconitum carmichaeli</i>	WU TOU
Common Nandina Fruit	T4371 <i>Nandina domestica</i>	NAN TIAN ZHU ZI
Common Nandina Leaf	T4370 <i>Nandina domestica</i>	NAN TIAN ZHU YE
Common Nandina Root	T4368 <i>Nandina domestica</i>	NAN TIAN ZHU GEN
Common Nandina Stem	T4369 <i>Nandina domestica</i>	NAN TIAN ZHU GENG
Common Nasturtium	T6555 <i>Tropaeolum majus</i>	HAN LIAN HUA
Common Nutmeg	T4351 <i>Myristica fragrans</i>	ROU DOU KOU
Common Oak	T5377 <i>Quercus robur</i>	OU ZHOU BAI LI
Common Oleander	T4420 <i>Nerium oleander</i>	OU ZHOU JIA ZHU TAO
Common Olive	T4487 <i>Olea europaea</i>	YOU GAN LAN
Common Onion	T0311 <i>Allium cepa</i>	YANG CONG
Common Ophiorrhiza	T4513 <i>Ophiorrhiza mungos</i>	SHE GEN CAO
Common Origanum	T4526 <i>Origanum vulgare</i>	TU XIANG RU
Common Oxmuscle	T2157 <i>Dichotomanthes tristaniaecarpa</i>	NIU JIN TIAO
Common Oxwood	T1784 <i>Cratoxylum cochinchinense</i>	HUANG NIU MU
Common Papermulberry	T1032 <i>Broussonetia papyrifera</i>	GOU SHU
Common Papermulberry Bast*	T1033 <i>Broussonetia papyrifera</i>	GOU SHU BAI PI
Common Papermulberry Fruit	T1035 <i>Broussonetia papyrifera</i>	GOU SHU GUO
Common Papermulberry Root*	T1034 <i>Broussonetia papyrifera</i>	GOU SHU GEN
Common Pathenium	T4660 <i>Parthenium hysterophorus</i>	YIN JIAO JU
Common Pear	T5364 <i>Pyrus communis</i>	XI YANG LI
Common Pearleverlasting	T0446 <i>Anaphalis margaritacea</i>	DA YE BAI TOU WENG
Common Peganum	T4687 <i>Peganum harmala</i>	LUO TUO PENG
Common Peganum Seed	T4688 <i>Peganum harmala</i>	LUO TUO PENG ZI
Common Peony	T4580 <i>Paeonia albiflora</i> [Syn. <i>Paeonia lactiflora</i>]	BAI SHAO
Common Peony (wild)	T4584 <i>Paeonia lactiflora</i> wild	CHI SHAO wild
Common Perilla	T4719 <i>Perilla frutescens</i> var. <i>arguta</i>	ZI SU
Common Perilla Fruit	T4715 <i>Perilla frutescens</i>	BAI SU ZI

Common Perilla Leaf	T4714 <i>Perilla frutescens</i>	BAI SU YE
Common Perilla Leaf	T4721 <i>Perilla frutescens</i> var. <i>arguta</i>	ZI SU YE
Common Perilla Stem	T4720 <i>Perilla frutescens</i> var. <i>arguta</i>	ZI SU GENG
Common Periwinkle	T6761 <i>Vinca minor</i>	MAN CHANG CHUN HUA
Common Petunia	T4751 <i>Petunia hybrida</i>	BI DONG QIE
Common Pheasant	T4786 <i>Phasianus colchicus</i>	ZHI
Common Physochlaina	T4859 <i>Physochlaina physaloides</i>	PAO NANG CAO
Common Pistache	T4982 <i>Pistacia vera</i>	A YUE HUN ZI
Common Poinsettia	T2614 <i>Euphorbia pulcherrima</i>	YI PIN HONG
Common Polypody	T5127 <i>Polypodium vulgare</i>	DUO ZU JUE
Common Prangos	T5191 <i>Prangos pabularia</i>	SHUAN CHI QIN
Common Pratia	T5193 <i>Pratia nummularia</i>	TONG CHUI YU DAI CAO
Common Prickly Pear	T4521 <i>Opuntia vulgaris</i>	LV XIAN REN ZHANG
Common Pyrola	T5347 <i>Pyrola decorata</i>	PU TONG LU TI CAO
Common Quince	T1937 <i>Cydonia oblonga</i>	WEN PO
Common Rabdosia	T3479 <i>Isodon amethystoides</i>	XIANG CHA CAI
Common Ragweed	T0398 <i>Ambrosia artemisiifolia</i>	TUN CAO
Common Raspberry*	T5588 <i>Rubus allegheniensis</i>	PU TONG XUAN GOU ZI
Common Reed Rhizome	T4829 <i>Phragmites communis</i>	LU GEN
Common Rue	T5626 <i>Ruta graveolens</i>	CHOU CAO
Common Rush	T3578 <i>Juncus effusus</i>	DENG XIN CAO
Common Russianthistle	T5657 <i>Salsola collina</i>	ZHU MAO CAI
Common Sage	T5685 <i>Salvia plebeia</i>	LI ZHI CAO
Common Sainfoin	T4491 <i>Onobrychis viciifolia</i>	LV DOU
Common Sassafras	T5746 <i>Sassafras tzumu</i>	CHA SHU
Common Scouring Rush	T2408 <i>Equisetum hiemale</i>	MU ZEI
Common Selfheal	T5214 <i>Prunella vulgaris</i>	XIA KU CAO
Common Sinodielsia	T5963 <i>Sinodielsia yunnanensis</i>	DIAN QIN
Common Sinopodophyllum	T5057 <i>Podophyllum emodii</i> [Syn. <i>Podophyllum emodii</i> var. <i>chinense</i> ; <i>Podophyllum sikkimense</i> ; <i>Sinopodophyllum emodii</i>]	TAO ER QI
Common Smoketree	T1758 <i>Cotinus coggygria</i>	HUANG LU
Common Smoketree Branch-leaf	T1759 <i>Cotinus coggygria</i> var. <i>cinerea</i>	HUANG LU ZHI YE
Common Snapdragon	T0537 <i>Antirrhinum majus</i>	JIN YU CAO
Common Souliea	T6060 <i>Souliea vaginata</i>	HUANG SAN QI
Common Speedwell	T6723 <i>Veronica arvensis</i>	ZHI LI PO PO NA
Common Spiderflower Seed	T1550 <i>Cleome gynandra</i> [Syn. <i>Gynandropsis gynandra</i>]	BAI HUA CAI ZI
Common Spruce	T4869 <i>Picea abies</i>	OU ZHOU YUN SHAN
Common Squill	T5813 <i>Scilla scilloides</i>	MIAN ZAO ER
Common St. Paulswort	T5950 <i>Siegesbeckia orientalis</i>	XI XIAN
Common St. John's wort	T3361 <i>Hypericum perforatum</i>	GUAN YE LIAN QIAO
Common Stelmatocrypton	T6106 <i>Stelmatocrypton khasianum</i>	SHENG TENG
Common Strawberry	T2763 <i>Fragaria ananassa</i>	CAO MEI
Common Swertia*	T6239 <i>Swertia swertiopsis</i>	PU TONG ZHANG YA CAI
Common Tansy	T6298 <i>Tanacetum vulgare</i>	JU HAO
Common Tea	T1152 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]	CHA YE
Common Teak	T6325 <i>Tectona grandis</i>	YOU MU
Common Threewingnut	T6542 <i>Tripterygium wilfordii</i>	LEI GONG TENG
Common Tobacco	T4428 <i>Nicotiana tabacum</i>	YAN CAO
Common Tritonia	T6548 <i>Tritonia crocosmaeflora</i>	XIONG HUANG LAN
Common Tulip	T6561 <i>Tulipa gesneriana</i>	YU JIN XIANG
Common Tulip Root	T6562 <i>Tulipa gesneriana</i>	YU JIN XIANG GEN
Common Turmeric	T1905 <i>Curcuma longa</i>	JIANG HUANG
Common Valeriana	T6679 <i>Valeriana officinalis</i>	XIE CAO

Common Wallflower	T1356 <i>Cheiranthus cheiri</i>	GUI ZHU XIANG
Common Waterhyacinth	T2325 <i>Eichhornia crassipes</i>	SHUI HU LU
Common Watershield	T1004 <i>Brasenia schreberi</i>	CHUN
Common Wedgelet Fern	T6116 <i>Stenoloma chusanum</i>	DA YE JIN HUA CAO
Common Vetch	T6750 <i>Vicia sativa</i>	DA CHAO CAI
Common White Jasmine	T3556 <i>Jasminum officinale</i>	SU FANG HUA
Common White Quebracho	T0772 <i>Aspidosperma quebracho-blanco</i>	PU TONG BAI JIAN MU
Common Vladimiria	T6802 <i>Vladimiria souliei</i> [Syn. <i>Jurinea souliei</i>]	CHUAN MU XIANG
Common Woadwaxen	T2901 <i>Genista tinctoria</i>	RAN LIAO MU
Common Wormwood	T0659 <i>Artemisia absinthium</i>	ZHONG YA KU HAO
Common Xylopia	T6855 <i>Xylopia vielana</i>	MU BAN SHU
Common Yam	T2190 <i>Dioscorea batatas</i> [Syn. <i>Dioscorea opposita</i>]	SHAN YAO
Common Yarrow	T0065 <i>Achillea millefolium</i>	YANG SHI CAO
Common Yew	T6307 <i>Taxus baccata</i>	JIANG GUO ZI SHAN
CommonGaultheria	T2893 <i>Gaultheria leucocarpa</i> var. <i>cumingiana</i>	BAI ZHU SHU
Compact Wormwood*	T0674 <i>Artemisia compacta</i>	MI HAO
Complanate Clubmoss	T3971 <i>Lycopodium complanatum</i>	GUO JIANG LONG
Compositelaf Eupatorium*	T2556 <i>Eupatorium compositifolium</i>	FU YE ZE LAN
Concentrated Beef Extract	T0983 <i>Bos taurus domesticus</i>	XIA TIAN GAO
Condurango	T4115 <i>Marsdenia condurango</i>	NAN MEI NIU NAI CAI
Conespike Flemingia	T2738 <i>Flemingia strobilifera</i>	QIU SUI QIAN JIN BA
Confusable Larkspur*	T2067 <i>Delphinium confusum</i>	YI SI CUI QUE
Confusable Ochrosia	T4468 <i>Ochrosia confusa</i>	YI SI MEI GUI SHU
Confuse Myrrhree*	T1634 <i>Commiphora confusa</i>	HUN XIAO MO YAO
Confused Mahonia	T4060 <i>Mahonia confusa</i>	HU BEI SHI DA GONG LAO
Congested-flower Rosewood*	T2000 <i>Dalbergia congestiflora</i>	JU HUA HUANG TAN
Conglobate Ulva Frond*	T6598 <i>Ulva conglobata</i>	LI CAI
Congo Antiaris*	T0534 <i>Antiaris welwitschii</i>	GANG GUO JIAN XUE FENG HOU
Congo Holarrhena*	T3264 <i>Holarrhena congolensis</i>	GANG GUO HE ZHI XIE MU
Conic Gymnadenia	T3077 <i>Gymnadenia conopsea</i>	SHOU ZHANG SHEN
Conicum Conocephalus*	T1644 <i>Conocephalum conicum</i>	SHE TAI
Conifer Macaranga	T4012 <i>Macaranga confusa</i>	ZHEN YE XUE TONG
Consolidated Larkspur*	T2068 <i>Delphinium consolida</i>	QIANG GU FEI YAN CAO
Constricted Alstonia*	T0368 <i>Alstonia constricta</i>	SHU JI GU CHANG SHAN
Contorted Tanglehead	T3234 <i>Heteropogon contortus</i>	DI JIN
Contracted Sawwort	T5922 <i>Serratula strangulata</i>	YI BAO MA HUA TOU
Convolute Asiabell	T1598 <i>Codonopsis convolvulacea</i>	JI DAN SHEN
Coprinus Sporocarp	T1660 <i>Coprinus atramentarius</i>	GUI GAI
Coral Ardisia	T0594 <i>Ardisia crenata</i>	ZHU SHA GEN
Coralhead Plant	T0012 <i>Abrus precatorius</i>	XIANG SI ZI
Coralhead Plant Vine	T0011 <i>Abrus precatorius</i>	XIANG SI TENG
Coral-tree	T2478 <i>Erythrina variegata</i> [Syn. <i>Erythrina indica</i>]	CI TONG
Cordate Gambirplant*	T6612 <i>Uncaria cordata</i>	XIN XING GOU TENG
Cordate Syzygium*	T6265 <i>Syzygium cordatum</i>	XIN XING PU TAO
Cordateleaf Sida	T5943 <i>Sida cordifolia</i>	HUANG HUA ZI
Cordate-oblong Beautyleaf*	T1127 <i>Calophyllum cordato-oblongum</i>	CHANG YUAN XIN XING HU TONG
Coriaceous Passionflower*	T4664 <i>Passiflora coriacea</i>	GE YANG XI FAN LIAN
Coriaceousleaf Actinidia	T0165 <i>Actinidia rubricaulis</i> var. <i>coriacea</i>	GE YE MI HOU TAO
Coriander Seed	T1687 <i>Coriandrum sativum</i>	HU SUI ZI
Corinan Tree*	T1752 <i>Corynanthe johimbe</i>	KE NAN SHU
Corkywing Euonymus	T2545 <i>Euonymus phellomana</i>	SHUAN CHI WEI MAO
Corn Gromwell	T3880 <i>Lithospermum arvense</i>	MAI JIA GONG
Corn Poppy	T4625 <i>Papaver commutatum</i> [Syn. <i>Papaver rhoeas</i>]	LI CHUN HUA

Cornflower	T1305 <i>Centaurea cyanus</i>	SHI CHE JU
Corniculate Aegiceras	T0194 <i>Aegiceras corniculatum</i>	LA ZHU GUO
Corniculate Spurgentian	T3092 <i>Halenia corniculata</i>	HUA MAO
Cornish Heath	T2419 <i>Erica vagans</i>	YING GUO OU SHI NAN
Cornuted Plantain*	T5003 <i>Plantago cornuti</i>	JIAO ZHUANG CHE QIAN
Coromandel Lannea	T3685 <i>Lannea grandis</i> [Syn. <i>Lannea coromandelica</i>]	HOU PI SHU
Coronarius Gingerlily	T3118 <i>Hedychium coronarium</i>	TU QIANG HUO
Coronary Ervatamia*	T2440 <i>Ervatamia coronaria</i>	GUAN ZHUANG GOU YA HUA
Corsican Pine	T4914 <i>Pinus laricio</i>	KE XI JIA SONG
Corydalisleaf Meadowrue	T6395 <i>Thalictrum isopyroides</i>	ZI JIN YE TANG SONG CAO
Corymb Rose-bay*	T6272 <i>Tabernaemontana corymbosa</i>	SAN FANG HUA XU HONG YUE GUI
Corymbose Hedyotis	T3126 <i>Hedyotis corymbosa</i> [Syn. <i>Oldenlandia corymbosa</i>]	SHUI XIAN CAO
Cotton-leaf Leprous Tree*	T3561 <i>Jatropha gossypifolia</i>	MIAN YE MA FENG SHU
Cottonrose Hibiscus Flower	T3241 <i>Hibiscus mutabilis</i>	MU FU RONG HUA
Couminga Erythrophleum*	T2484 <i>Erythrophleum couminga</i>	KAO MING GE MU
Country Monkshood	T0115 <i>Aconitum monticola</i>	SHAN DI WU TOU
Country Stringbush*	T6822 <i>Wikstroemia monticola</i>	SHAN DI YAO HUA
Cow Milk	T0989 <i>Bos taurus domesticus; Bubalus bubalis</i>	NIU RU
Cowage Velvet-bean	T4310 <i>Mucuna pruriens</i>	CI YANG LI DOU
Cowberry Leaf	T6673 <i>Vaccinium vitis-idaea</i>	YUE JU YE
Cow-bezoar (Ox-gallstone)	T0987 <i>Bos taurus domesticus; Bubalus bubalis</i>	NIU HUANG
Cowherb	T6668 <i>Vaccaria segetalis</i> [Syn. <i>Vaccaria pyramidata</i>]	WANG BU LIU XING
Cowlily	T4450 <i>Nuphar pumilum</i>	PING PENG CAO
Cowparsnipleaf Bugbane	T1421 <i>Cimicifuga heracleifolia</i>	DA SAN YE SHENG MA
Cow-pea	T6754 <i>Vigna unguiculata</i>	JIANG DOU
Crab-craw Orchis*	T5806 <i>Schlumbergera truncata</i>	XIE ZHUA LAN
Crassleaf Tephrosia*	T6333 <i>Tephrosia crassifolia</i>	HOU YE HUI MAO DOU
Creeping Acroptilon	T0154 <i>Acroptilon repens</i>	DING YU JU
Creeping Bugle	T0271 <i>Ajuga reptans</i>	PU FU JIN GU CAO
Creeping Ceratostigma, Creeping Bluesnow	T1327 <i>Ceratostigma minus</i>	XIAO JIAO ZHU HUA
Creeping Corydalis	T1735 <i>Corydalis repens</i>	QUAN YE YAN HU SUO
Creeping Hypoestes*	T3375 <i>Hypoestes serpens</i>	PU FU QIANG DAO YAO
Creeping Juniper	T3589 <i>Juniperus horizontalis</i>	PING PU YUAN BAI
Creeping Lagotis*	T3676 <i>Lagotis stolonifera</i>	PU FU JING TU ER CAO
Creeping Mahonia	T4071 <i>Mahonia repens</i>	PU FU SHI DA GONG LAO
Creeping Ninenode	T5279 <i>Psychotria serpens</i>	MAN JIU JIE
Creeping Oxalis	T4564 <i>Oxalis corniculata</i> [Syn. <i>Oxalis repens</i>]	ZUO JIANG CAO
Creeping Rockfoil	T5773 <i>Saxifraga stolonifera</i>	HU ER CAO
Creeping Rostellularia	T5576 <i>Rostellularia procumbens</i> [Syn. <i>Justicia procumbens</i>]	JUE CHUANG
Creeping Skyflower	T2295 <i>Duranta repens</i>	JIA LIAN QIAO
Creeping Skyflower Leaf	T2296 <i>Duranta repens</i>	JIA LIAN QIAO YE
Creeping Telosma	T6329 <i>Telosma procumbens</i>	WO JING YE LAI XIANG
Crenate Quassia-wood*	T4879 <i>Picrasma crenata</i>	YUAN CHI KU MU
Creosote-bush	T3695 <i>Larrea tridentata</i>	SAN CHI LA RUI A
Crepinleaf Erysimum*	T2453 <i>Erysimum crepidifolium</i>	HUAN YANG SHEN YE TANG JIE
Crescent-shaped Euphorbia	T2599 <i>Euphorbia lunulata</i>	MAO YAN CAO
Crest Iris	T3456 <i>Iris cristata</i>	SHI GUAN YUAN WEI
Crestedspike Ragweed	T0406 <i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	GUAN LUO SUI TUN CAO
Cretan Brake	T5287 <i>Pteris cretica</i>	DA YE JING KOU BIAN CAO
Crispate Crotalaria*	T1818 <i>Crotalaria crispata</i>	ZOU BO ZHUANG ZHU SHI DOU
Crispateleaf Ardisia	T0595 <i>Ardisia crispa</i>	BAI LIANG JIN
Crisped Common Perilla	T4722 <i>Perilla frutescens</i> var. <i>crispa</i>	HUI HUI SU
Crisped Common Perilla Stem	T4723 <i>Perilla frutescens</i> var. <i>crispa</i>	HUI HUI SU GENG

Crisped Dock	T5607 <i>Rumex crispus</i>	NIU ER DA HUANG
Cristate Coelogyne	T1605 <i>Coelogyne cristata</i>	MAO CHUN BEI MU LAN
Crown Imperial	T2788 <i>Fritillaria imperialis</i>	XI BEI MU
Crown Vetch	T1702 <i>Coronilla varia</i>	DUO BIAN XIAO GUAN HUA
Crowndaisy Chrysanthemum	T1390 <i>Chrysanthemum coronarium</i>	TONG HAO
Crown-flowered Mayten	T4131 <i>Maytenus confertiflorus</i>	MI HUA MEI DENG MU
Crownofhorns Euphorbia	T2601 <i>Euphorbia milii</i>	TIE HAI TANG
Crozier Cycas	T1926 <i>Cycas circinalis</i>	QUAN YE SU TIE
Crucian Carp	T1194 <i>Carassius auratus</i>	JIN YU
Cruciate Mistletoe*	T6776 <i>Viscum cruciatum</i>	SHI ZI XING FENG JI SHENG
Cryptomeria-like Taiwania	T6284 <i>Taiwania cryptomerioides</i>	TAI WAN SHAN
Crystal Tea	T3735 <i>Ledum palustre</i>	LA BA CHA
Cuachalalate (local name)	T0431 <i>Amphipterygium adstringens</i>	SHOU LIAN LIANG YI MU
Cuba Devilpepper	T5432 <i>Rauwolfia cubana</i>	GU BA LUO FU MU
Cubeba Pepper	T4944 <i>Piper cubeba</i>	BI CHENG QIE
Cucumber	T1878 <i>Cucumis sativus</i>	HUANG GUA
Cucumber Tree	T2112 <i>Dendrosicyos socotrana</i>	
Cucumber-tree	T4033 <i>Magnolia acuminata</i>	JIAN JIAN MU LAN
Cudweed	T3026 <i>Gnaphalium affine</i> [Syn. <i>Gnaphalium multiceps</i>]	SHU QU CAO
Cudweed-like Saussurea	T5753 <i>Saussurea gnaphaloides</i>	SHU QU FENG MAO JU
Cultivate Sisalan Agave East-1	T0221 <i>Agave east-one</i>	DONG YI HAO JIAN MA
Cultivated Aster*	T0779 <i>Aster cultivars</i>	ZAI PEI ZI WAN
Cultivated Citrus*	T1473 <i>Citrus cultivars</i>	ZAI PEI GAN JU
Cultivated Fennelflower*	T4433 <i>Nigella sativa</i>	ZAI PEI HEI ZHONG CAO
Cultivated Langsat*	T3686 <i>Lansium domesticum</i>	ZAI ZHONG LANG SE MU
Cultivated Scarlet Caterpillar Fungus*	T1681 <i>Cordyceps militaris</i> cv	REN GONG YONG CHONG CAO
Cultivated Sunflower Leaf*	T3146 <i>Helianthus annuus</i> cv	ZAI PEI XIANG RI KUI YE
Cultrate Rosewood*	T2001 <i>Dalbergia cultrata</i>	XIAO DAO XING HUANG TAN
Cumin	T1889 <i>Cuminum cyminum</i>	ZI RAN QIN
Cuming Croton*	T1842 <i>Croton cumingii</i>	KA MING BA DOU
Cummins Devilpepper*	T5433 <i>Rauwolfia cumminsii</i>	KE MING XI LUO FU MU
Cuneate Lespedeza	T3770 <i>Lespedeza cuneata</i>	YE GUAN MEN
Cuneate Monkshood*	T0134 <i>Aconitum subcuneatum</i>	XIE XING WU TOU
Cuneateleaf Eupatorium*	T2557 <i>Eupatorium cuneifolium</i>	XIE YE ZE LAN
Cupreous Cinchona*	T1427 <i>Cinchona cuprea</i>	TONG SE JI NA SHU
Curassow Heliotrope*	T3169 <i>Heliotropium curassavicum</i>	YAN TIAN JIE CAI
curillus Asparagus*	T0747 <i>Asparagus curillus</i>	WAN QU TIAN MEN DONG
Curinary Asparagus	T0751 <i>Asparagus officinalis</i>	SHI DIAO BAI
Curious Kadsura	T3614 <i>Kadsura heteroclita</i> [Syn. <i>Uvaria heteroclita</i>]	YI XING NAN WU WEI ZI
Curly Bristlethistle	T1200 <i>Carduus crispus</i>	FEI LIAN
Curly Garden Parsley	T4748 <i>Petroselinum crispum</i>	ZHOU YE OU QIN
Curtilage Ardisia*	T0596 <i>Ardisia hortorum</i>	TING YUAN ZI JIN NIU
Curtisi Paxillus*	T4680 <i>Paxillus curtisii</i>	KE DI SI WANG ZHE JUN
Curvatura Jackintheulpit*	T0619 <i>Arisaema curvatum</i>	WAN QU TIAN NAN XING
Curvebeak Monkshood	T0082 <i>Aconitum campylorrhynchum</i>	WAN ZHUO WU TOU
Curvedflower Phlogacanthus	T4803 <i>Phlogacanthus curviflorus</i>	HUO YAN HUA
Curvedsepal St.John'swort	T3345 <i>Hypericum curvisepalum</i>	WAN E JIN SI TAO
Cushaw	T1880 <i>Cucurbita moschata</i>	NAN GUA
Cushaw Seed	T1881 <i>Cucurbita moschata</i>	NAN GUA ZI
Cushion-shaped Spikemoss	T5865 <i>Selaginella pulvinata</i>	DIAN ZHUANG JUAN BAI
Cuspate	T0762 <i>Aspidosperma cuspa</i>	JIAN BAI JIAN MU
Cuspidate Mniium Herb	T4259 <i>Mniium cuspidatum</i>	SHUI MU CAO
Cuspidate Pricklyash	T6872 <i>Zanthoxylum cuspidatum</i>	HUA JIAO LE

Custard Apple	T0513 <i>Annona squamosa</i>	FAN LI ZHI
Cutechu	T0019 <i>Acacia catechu</i>	HAI ER CHA
Cut-leaf Balsamroot	T0864 <i>Balsamorhiza macrophylla</i>	
Cutleaf Coneflower	T5604 <i>Rudbeckia laciniata</i>	JIN GUANG JU
Cutleaf Groundcherry	T4848 <i>Physalis angulata</i>	KU ZHI
Cyclamen	T1929 <i>Cyclamen europaeum</i>	OU ZHOU XIAN KE LAI
Cylinder Immortelle	T6847 <i>Xeranthemum cylindraceum</i>	CHANG TONG HAN HUA
Cymose Brassica*	T1016 <i>Brassica oleracea</i> var. <i>botrytis</i> subvar. <i>cymosa</i>	JU SAN HUA YE CAI
Dadah Artocarpus*	T0711 <i>Artocarpus dadah</i>	DA DA HE MIAN BAO GUO
Daffodil	T4379 <i>Narcissus pseudonarcissus</i>	HUANG SHUI XIAN
Daghestan Sweetclover	T4172 <i>Melilotus suaveolens</i>	PI HAN CAO
Daghestan Sweetclover Root	T4173 <i>Melilotus suaveolens</i>	PI HAN CAO GEN
Dahuria Gentian	T2910 <i>Gentiana dahurica</i>	DA WU LI QIN JIAO
Dahurian Angelica	T0478 <i>Angelica dahurica</i> [Syn. <i>Angelica porphyrocaulis</i>]	BAI ZHI
Dahurian Bugbane	T1419 <i>Cimicifuga dahurica</i>	XING AN SHENG MA
Dahurian Larch	T3690 <i>Larix gmelini</i>	LUO YE SONG
Dahurian Loosestrife	T4001 <i>Lysimachia davurica</i>	HUANG LIAN HUA
Dahurian Patrinia	T4672 <i>Patrinia scabiosaefolia</i>	HUANG HUA BAI JIANG
Dahurian Pulsatilla*	T5326 <i>Pulsatilla dahurica</i>	XING AN BAI TOU WENG
Dahurian Rhododendron	T5508 <i>Rhododendron dauricum</i>	MAN SHAN HONG
Daimyo Oak Leaf	T5372 <i>Quercus dentata</i>	HU YE
Dalmatian Pyrethrum	T1388 <i>Chrysanthemum cinerariaefolium</i>	CHU CHONG JU
Damask Rose	T5564 <i>Rosa damascena</i>	DA MA SHI GE QIANG WEI
Danshen	T5680 <i>Salvia miltiorrhiza</i>	DAN SHEN
Dark-hair Gold-hair Moss*	T5135 <i>Polytrichum pollidisetum</i>	CANG MAO JIN FA XUAN
Darkhairy Milkvetch*	T0786 <i>Astragalus atropubescens</i>	ROU MAO HUANG QI
Darkred Rhodiola	T5493 <i>Rhodiola coccinea</i>	SHEN HONG HONG JING TIAN
Darksanguine Cinquefoil*	T5180 <i>Potentilla atrosanguinea</i>	AN HONG WEI LING CAI
Dark-yellow Corydalis	T1723 <i>Corydalis lutea</i>	SHEN HUANG ZI JIN
Darling Pea	T6208 <i>Swainsonia galegifolia</i>	SHAN YANG DOU YE KU MA DOU
Darwin Barberry	T0901 <i>Berberis darwinii</i>	DA ER WEN XIAO BO
Dateplum Persimmon	T2222 <i>Diospyros lotus</i>	JUN QIAN ZI
David Epimedium	T2392 <i>Epimedium davidii</i>	CHUAN DIAN YIN YANG HUO
David Falsepanax	T4444 <i>Nothopanax davidii</i>	YI YE LIANG WANG CHA
David Peach Bast	T5220 <i>Prunus davidiana</i>	SHAN TAO JING BAI PI
David Peach Juvenile Branch	T5221 <i>Prunus davidiana</i>	SHAN TAO ZHI
David's Spikemoss	T5860 <i>Selaginella davidii</i>	MAN SHENG JUAN BAI
Dawn Redwood	T4208 <i>Metasequoia glyptostroboides</i>	SHUI SHAN
Dawo Rabdosa	T3484 <i>Isodon dawoensis</i>	DAO FU XIANG CHA CAI
Davurian Buckthorn	T5457 <i>Rhamnus davurica</i>	SHU LI
Deadly Calabarbean	T4860 <i>Physostigma venenosum</i>	DU BIAN DOU
Deadly Carrot	T6419 <i>Thapsia garganica</i>	DU HU LUO BO
Death Cap	T0385 <i>Amanita phalloides</i>	DU E GAO
Decaline Nightshade*	T5996 <i>Solanum decemlineata</i>	SHI XIAN QIE
Decapistil Pokeweed*	T4863 <i>Phytolacca dodecandra</i>	SHI ER RUI SHANG LU
Decary Pricklyash*	T6873 <i>Zanthoxylum decaryi</i>	DE KA RUI HUA JIAO
Deciduous Cypress	T6305 <i>Taxodium distichum</i>	LUO YU SHAN
Decumbent Bugle	T0263 <i>Ajuga decumbens</i>	BAI MAO XIA KU CAO
Decumbent Corydalis	T1715 <i>Corydalis decumbens</i> [Syn. <i>Corydalis amabilis</i>]	XIA TIAN WU
Decurrent Archangelica	T0583 <i>Archangelica decurrens</i>	XIA YAN GU DANG GUI
Deeplobed Larkspur*	T2073 <i>Delphinium dissectum</i>	SHEN LIE CUI QUE HUA
Deeplobed Merremia*	T4197 <i>Merremia dissecta</i>	SHEN LIE YU HUANG CAO
Deep-lobed-leaf Incarvillea*	T3419 <i>Incarvillea dissectifoliola</i>	SHEN LIE YE JIAO HAO

Deerbrush	T1276 <i>Ceanothus integerrimus</i>	QUAN YUAN YE MEI ZHOU CHA
Degen St. John's wort*	T3346 <i>Hypericum degenii</i>	DI GEN JIN SI TAO
Delacay Honeylocust	T2975 <i>Gleditsia delavayi</i>	YUN NAN ZAO JIA
Delavay Fritillary	T2784 <i>Fritillaria delavayi</i>	LENG SHA BEI MU
Delavay Meadowrue	T6378 <i>Thalictrum delavayi</i>	PIAN CHI TANG SONG CAO
Delavay Peony	T4582 <i>Paeonia delavayi</i>	DIAN MU DAN
Delavay Stephania	T6120 <i>Stephania delavayi</i> [Syn. <i>Stephania epigaea</i>]	DI BU RONG
Delavay Monkshood	T0090 <i>Aconitum delavayi</i>	MA ER SHAN WU TOU
Delicate Jew's Ear*	T0831 <i>Auricularia delicata</i>	ZHOU MU ER
Delicious Actinidia	T0160 <i>Actinidia deliciosa</i>	MEI WEI MI HOU TAO
Delightful Dendrobium	T2095 <i>Dendrobium amoenum</i>	KE AI SHI HU
Delightful Skullcap*	T5832 <i>Scutellaria amabilis</i>	KE AI HUANG QIN
Delphinileaf Sopubia*	T6050 <i>Sopubia delphinifolia</i>	CUI QUE YE DUAN GUAN CAO
Deltoid Goldthread	T1664 <i>Coptis deltoidea</i>	SAN JIAO YE HUANG LIAN
Deltoid Yam	T2195 <i>Dioscorea deltoidea</i>	SAN JIAO YE SHU YU
Dendrob Mycena	T4336 <i>Mycena dendrobii</i>	SHI HU XIAO GU
Denne Dendrobium	T2096 <i>Dendrobium aurantiacum</i> var. <i>denneanum</i>	DIE QIAO SHI HU
Dense Euphorbia*	T2588 <i>Euphorbia fortissima</i>	NONG DA JI
Denseflower Dendrobium	T2100 <i>Dendrobium densiflorum</i>	MI HUA SHI HU
Denseflower Lemongrass*	T1940 <i>Cymbopogon densiflorus</i>	MI HUA XIANG MAO
Denseflower Libanotis	T3797 <i>Libanotis condensata</i>	MI HUA YAN FENG
Denseflower Loosestrife	T4000 <i>Lysimachia congestiflora</i>	JU HUA GUO LU HUANG
Denseflower Ragweed*	T0400 <i>Ambrosia confertiflora</i>	MI HUA TUN CAO
Denseflower Tylophora*	T6579 <i>Tylophora crebriflora</i>	MI HUA WA ER TENG
Densefruit Cucumber*	T1877 <i>Cucumis myriocarpus</i>	MI GUO HUANG GUA
Densefruit Pittany Root-bark	T2167 <i>Dictamnus dasycarpus</i>	BAI XIAN PI
Densevein Schefflera	T5785 <i>Schefflera venulosa</i>	MI MAI E ZHANG CHAI
Denticulate Vladimiria	T6801 <i>Vladimiria denticulata</i>	YUE XI MU XIANG
Denuded Larkspur*	T2071 <i>Delphinium denudatum</i>	LU CUI QUE
Deodar Cedar	T1282 <i>Cedrus deodara</i>	XUE SONG
Depressed Orange	T1475 <i>Citrus depressa</i>	BIAN PING JU
Depressed Plantain	T5004 <i>Plantago depressa</i>	PING CHE QIAN
Desert Rose	T0168 <i>Adenium obesum</i>	SHA MO QIANG WEI
Desertliving Asparagus*	T0750 <i>Asparagus gobicus</i>	GE BI TIAN MEN
Desertliving Cistanche	T1455 <i>Cistanche deserticola</i>	ROU CONG RONG
Desertliving Groundsel*	T5886 <i>Senecio eremophilus</i>	SHA SHENG QIAN LI GUANG
Desfontainia spinosa	T2126 <i>Desfontainia spinosa</i>	DUO CI DI SHI MU
Dew Rabdosia	T3495 <i>Isodon irrorata</i>	LU ZHU XIANG CHA CAI
Devil's Clow	T3106 <i>Harpagophytum procumbens</i>	NAN FEI GOU MA
Devil-in-a-bush	T4430 <i>Nigella arvensis</i>	YE HEI ZHONG CAO
Deviltree Alstonia	T0370 <i>Alstonia macrophylla</i>	DA YE TANG JIAO SHU
Diamondleaf Persimmon	T2226 <i>Diospyros rhombifolia</i>	LAO YA SHI
Dicentrine Stephania*	T6121 <i>Stephania dicentrifera</i>	HE BAO DI BU RONG
Dichotoma Forked Fern	T2161 <i>Dicranopteris pedata</i> [Syn. <i>Polypodium pedatum</i> ; <i>Dicranopteris dichotoma</i>]	MANG QI GU
Dichotomous Ervatamia*	T2441 <i>Ervatamia dichotoma</i>	ER QI GOU YA HUA
Dichotomous Fimbristylis	T2730 <i>Fimbristylis dichotoma</i>	PIAO FU CAO
Diderrichi Fatheadtree*	T4389 <i>Nauclea diderrichii</i>	DI SHI WU TAN
Diels Millettia	T4234 <i>Millettia dielsiana</i>	KUN MING JI XUE TENG
Diels Stephania	T6122 <i>Stephania dielsiana</i>	XUE SAN SHU
Diels Trema	T6494 <i>Trema dielsiana</i>	SHAN YOU MA
Difengpi Anisetree	T3400 <i>Illicium difengpi</i>	DI FENG PI
Different-flowered Indigo	T3422 <i>Indigofera heteranthazha</i>	YI HUA MU LAN

Diffract Usnea Filament	T6653 <i>Usnea diffracta</i>	HUAN JIE SONG LUO
Diffuse Boerhavia	T0969 <i>Boerhavia diffusa</i>	HUANG XI XIN
Diffuse Erysimum	T2454 <i>Erysimum diffusum</i>	TANG JIE
Digyna Caesalpinia*	T1102 <i>Caesalpinia digyna</i>	ER CI YUN SHI
Dill Fruit	T0472 <i>Anethum graveolens</i>	SHI LUO ZI
Diluteyellow Crotalaria	T1813 <i>Crotalaria albida</i>	HUANG HUA DI DING
Dinklage Stephania*	T6123 <i>Stephania dinklagei</i>	DING KE LA QIAN JIN TENG
Dioecious Nettle	T6652 <i>Urtica dioica</i>	YI ZHU QIAN MA
Dioecious Small Ephedra	T2374 <i>Ephedra minuta</i> var. <i>dioeca</i>	YI ZHU AI MA HUANG
Dioscorea sp.	T2209 <i>Dioscorea</i> sp.	
Disciform Prana*	T5190 <i>Prana discifera</i>	DA PENG TENG
Discoïd Leafflower*	T4833 <i>Phyllanthus discoides</i>	PAN ZHUANG YE XIA ZHU
Discolor Cinquefoil	T5182 <i>Potentilla discolor</i>	FAN BAI CAO
Discolor Stephania*	T6124 <i>Stephania discolor</i>	CAI WEN QIAN JIN TENG
Discolored Skullcap*	T5836 <i>Scutellaria discolor</i>	ZI BEI HUANG QIN
Discrete Xylopiya*	T6853 <i>Xylopiya discreta</i>	XI SHU MU BAN SHU
Diseed Buckthorn*	T5458 <i>Rhamnus disperma</i>	SHUANG ZHONG ZI SHU LI
Disparate Beautyleaf*	T1128 <i>Calophyllum dispar</i>	BU DENG HONG HOU KE
Divaricate Bluebeard	T1221 <i>Caryopteris divaricata</i>	YOU ⁽²⁾
Divaricate Ervatamia	T2442 <i>Ervatamia divaricata</i>	DAN BAN GOU YA HUA
Divaricate Poisonnut*	T6170 <i>Strychnos divaricans</i>	FEN CHA MA QIAN ZI
Divaricate Saposhnikovia	T5727 <i>Saposhnikovia divaricata</i> [Syn. <i>Ledebouriella seseloides</i>]	FANG FENG
Divaricate Strophanthus Seed	T6155 <i>Strophanthus divaricatus</i>	YANG JIAO AO ZI
Diverse Worm-wood	T0661 <i>Artemisia anomala</i>	LIU JI NU
Diversifolious Hemiphragma	T3201 <i>Hemiphragma heterophyllum</i>	BIAN DA XIU QIU
Diversifolious Patrinia	T4670 <i>Patrinia heterophylla</i>	YI YE BAI JIANG
Diversileaf Artocarpus	T0713 <i>Artocarpus heterophyllus</i>	BO LUO MI
Diversileaf Jackintheulpit	T0620 <i>Arisaema heterophyllum</i>	YI YE TIAN NAN XING
Dives Eucalyptus*	T2508 <i>Eucalyptus dives</i>	FU AN
Dockleaf Goldenray	T3809 <i>Ligularia lapathifolia</i>	NIU BANG YE DU WU
Dockleaved Knotweed	T5106 <i>Polygonum lapathifolium</i>	YU LIAO
Dodecapistil Spiderflower*	T5060 <i>Polanisia dodecandra</i>	SHI ER RUI CHOU SHI CAI
Doederlein's Spikemoss	T5861 <i>Selaginella doederleinii</i>	DA YE CAI
Dog Heart	T1171 <i>Canis familiaris</i>	GOU XIN
Dog Meat	T1170 <i>Canis familiaris</i>	GOU ROU
Dog Rose	T5561 <i>Rosa canina</i>	QUAN CHI QIANG WEI
Dogbane	T0553 <i>Apocynum venetum</i>	LUO BU MA
Dolphin	T2092 <i>Delphinus delphis</i>	HAI TUN YU
Domestic Apple*	T4087 <i>Malus domestica</i>	PING GUO HAI TANG
Doublepetalous Daylily*	T3194 <i>Hemerocallis fulva</i> var. <i>kwanso</i>	CHONG BAN XUAN CAO
Doubleteeth Pubescent Angelica	T0492 <i>Angelica pubescens</i> f. <i>biserrata</i> [Syn. <i>Angelica pubescens</i>]	DU HUO
Douglas Wormwood*	T0675 <i>Artemisia douglasiana</i>	DAO SHI HAO
Downy Cherry	T5244 <i>Prunus tomentosa</i>	SHAN YING TAO
Downy Groundcherry	T4854 <i>Physalis pubescens</i>	KU ZHI
Downy Rosemyrtle Leaf	T5528 <i>Rhodomyrtus tomentosa</i>	SHAN REN YE
Drac Croton*	T1843 <i>Croton draco</i>	DE LA KE BA DOU
Draco Yellowvine*	T1994 <i>Daemonorops draco</i>	QI LIN JIE
Dracunculi-leaf Pluche*	T0844 <i>Baccharis dracunculifolia</i>	XIAO LONG YE KUO BAO JU
Dragon Juniper	T3582 <i>Juniperus chinensis</i> var. <i>kaizuka</i>	LONG BAI
Dragonhead	T2257 <i>Dracocephalum moldavicum</i>	XIANG QING LAN
Dragontree	T2254 <i>Dracaena draco</i>	LONG XUE SHU
Dried Chinese Woodfrog	T5409 <i>Rana temporaria chensinensis</i> ; <i>Rana amurensis</i>	HA SHI MA
Drooping Alder*	T0330 <i>Alnus pendula</i>	CHUI QI MU

Drooping Sedge*	T1203 <i>Carex pendula</i>	XIA CHUI TAI CAO
Drooping Snailseed*	T1588 <i>Cocculus pendulus</i>	CHUI MU FANG JI
Droughtdysentery Holarrhena Bark	T3263 <i>Holarrhena antidysenterica</i>	ZHI XIE MU PI
Drug Snowbell	T6202 <i>Styrax officinalis</i>	YAO YONG AN XI XIANG
Drug Sweetflag	T0142 <i>Acorus calamus</i>	BAI CHANG
Drummond St.John'swort	T3347 <i>Hypericum drummondii</i>	DE LA MENG DE JIN SI TAO
Drupaceous Plumyew*	T1317 <i>Cephalotaxus drupacea</i>	HE GUO CU FEI
Drupaceous Scurfpea*	T5271 <i>Psoralea drupacea</i>	HE GUO ZHUANG BU GU ZHI
Dry Silene	T5955 <i>Silene jensisensis</i>	HAN MAI PING CAO
Dry-living Rabdosia	T3536 <i>Isodon xerophilus</i>	HAN SHENG XIANG CHA CAI
Dubious Barberry	T0903 <i>Berberis dubia</i>	ZHI YI XIAO BO
Duhat	T6266 <i>Syzygium cumini</i>	YANG SHI GUO
Dulcin Garcinia*	T2853 <i>Garcinia dulcis</i>	TIAN SHAN ZHU ZI
Dunn Wampee	T1534 <i>Clausena dunniana</i>	HEI GUO HUANG PI
Dunn's Plagiogyria	T4997 <i>Plagiogyria dunnii</i>	DAO YE LIU ZU JUE
Dutchman's Breeches	T2148 <i>Dicentra cucullaria</i>	DOU ZHUANG HE BAO MU DAN
Dutchmanspipe	T0638 <i>Aristolochia siphon</i>	OU ZHOU MA DOU LING
Dwarf Chickling Pea	T3703 <i>Lathyrus cicera</i>	BIAN JIA SHAN LI DOU
Dwarf Cornel	T1699 <i>Cornus suecica</i>	AI LAI MU
Dwarf Flowering Cherry Seed	T5224 <i>Prunus japonica</i> [Syn. <i>Cerasus japonica</i>]	YU LI REN
Dwarf Gorse	T6592 <i>Ulex nanus</i>	AI JING DOU
Dwarf Many-flowered May-apple	T2298 <i>Dysosma difformis</i>	XIAO BA JIAO LIAN
Dwarf Marigold	T5805 <i>Schkuhria pinnata</i>	SHI KU JU
Dwarf Nightshade*	T5997 <i>Solanum demissum</i>	AI QIE
Dwarf Ophiorrhiza	T4514 <i>Ophiorrhiza pumila</i>	DUAN XIAO SHE GEN CAO
Dwarf Pomegranate	T5333 <i>Punica granatum</i> cv. <i>nana</i>	YUE JI SHI LIU
Dwarf Sunflower*	T3152 <i>Helianthus pumilus</i>	AI XIANG RI KUI
Dyebark Evodia	T2643 <i>Evodia meliifolia</i>	LIAN YE WU ZHU YU
Dyed Morinda	T4285 <i>Morinda tinctoria</i>	RAN SE JI YAN TENG
Dye-maker's False Puffball	T4978 <i>Pisolithus tinctorius</i> [Syn. <i>Lycoperdon capitatum</i> ; <i>Scleroderma tinctorium</i>]	DOU BAO JUN
Dyer's Alkanet	T0304 <i>Alkanna tinctoria</i>	OU ZI CAO
Dyers Woad	T3477 <i>Isatis tinctoria</i>	OU ZHOU SONG LAN
Dyeteer Leaf	T5010 <i>Platycarya strobilacea</i>	HUA XIANG SHU YE
Dzungaria Hogfennel*	T4763 <i>Peucedanum morisonii</i>	ZHUN GE ER QIAN HU
Dzungaria Monkshood	T0131 <i>Aconitum soongaricum</i>	ZHUN GE ER WU TOU
E.Chuan Swertia	T6217 <i>Swertia davidii</i>	CHUAN DONG ZHANG YA CAI
Eaglewood	T0554 <i>Aquilaria agallocha</i>	CHEN XIANG
Early Lilac	T6260 <i>Syringa oblata</i>	ZI DING XIANG
Early Meadowrue	T6379 <i>Thalictrum dioicum</i>	YI XING TANG SONG CAO
Earthworm	T4796 <i>Pheretima aspergillum</i> ; <i>Allolobophora caliginosa trapezoides</i>	QIU YIN
East African Sandalwood	T4556 <i>Osyris tenuifolia</i>	XIAO HUA SHA ZHEN
East China Globethistle	T2316 <i>Echinops grijsii</i>	HUA DONG LAN CI TOU
East-African Poisonnut*	T6191 <i>Strychnos usambarensis</i>	DONG FEI MA QIAN
East-African Senna*	T1246 <i>Cassia singueana</i>	DONG FEI JUE MING
East-Anatolia Centaurea*	T1307 <i>Centaurea pseudoscabiosa</i> ssp. <i>pseudoscabiosa</i>	DONG AN NA TUO LI YA SHI CHE JU
East-Asia Low Meadowrue	T6414 <i>Thalictrum thunbergii</i>	YAN GUO CAO
Easter Heraldtrumpet	T0886 <i>Beaumontia grandiflora</i>	QING MING HUA
Eastern Arborvitae	T6438 <i>Thuja occidentalis</i>	BEI MEI YA BAI
Eastern Bracken Fern	T5284 <i>Pteridium aquilinum</i> var. <i>latiusculum</i>	JUE
Eastern Groundsel	T5914 <i>Senecio vernalis</i>	CHUN QIAN LI GUANG
Eastern Monkshood	T0121 <i>Aconitum orientale</i>	GAO JIA SUO WU TOU

Eastern Wahoo	T2537 <i>Euonymus atropurpureus</i>	ZI GUO WEI MAO
Easy-lobed Tyromyces*	T6589 <i>Tyromyces fissilis</i>	YI LYE GAN LAO JUN
Ebei Fritillary	T2785 <i>Fritillaria ebeiensis</i>	E BEI BEI MU
Ebracteolate Euphorbia	T2584 <i>Euphorbia ebracteolata</i>	YUE XIAN DA JI
Ecasto-leaf Rosewood*	T2002 <i>Dalbergia ecastophyllum</i>	YI KA TUO YE HUANG TAN
Echinate Licorice*	T3012 <i>Glycyrrhiza echinata</i>	JI GAN CAO
Echiumlike Andrographis	T0453 <i>Andrographis echioides</i>	LAN JI CHUAN XIN LIAN
Edible Abelmoschus	T3240 <i>Hibiscus esculentus</i>	KA FEI HUANG KUI
Edible Aglaia*	T0233 <i>Aglaia edulis</i>	KE SHI MI ZI LAN
Edible Bamboo	T4844 <i>Phyllostachys edulis</i>	MENG ZONG ZHU
Edible Bitterleaf	T6716 <i>Vernonia esculenta</i>	BAN JIU JU
Edible Canna	T1172 <i>Canna edulis</i>	JIAO YU
Edible Casimiroa	T1226 <i>Casimiroa edulis</i>	XIANG ROU GUO
Edible Eugenia*	T2532 <i>Eugenia edulis</i>	KE SHI FAN YING TAO
Edible Kudzuvine	T5312 <i>Pueraria edulis</i>	SHI YONG GE
Edible Milkvetch*	T0792 <i>Astragalus cibarius</i>	SHI YONG HUANG QI
Edible Oxystelma Variety*	T4566 <i>Oxystelma esculentum</i> var. <i>alpini</i>	BIAN ZHONG JIAN HUAI TENG
Edible Tulip	T6560 <i>Tulipa edulis</i>	GUANG CI GU
Eelgrass	T6683 <i>Vallisneria spiralis</i>	KU CAO
Egypt Cultivate Coralbean*	T2469 <i>Erythrina lysistemon</i>	AI JI ZAI PEI CI TONG
Egypt Planted Iris	T3455 <i>Iris carthaliniae</i>	AI JI ZHONG ZHI YUAN WEI
Egyptian Carissa	T1207 <i>Carissa edulis</i>	AI JI JIA HU CI
Egyptian Clover*	T6516 <i>Trifolium alexandrinum</i>	AI JI CHE ZHOU CAO
Egyptian Cottonthistle*	T4495 <i>Onopordum alexandrinum</i>	AI JI DA CHI JI
Egyptian Groundsel	T5876 <i>Senecio aegypticus</i>	AI JI QIAN LI GUANG
Egyptian Sage*	T5659 <i>Salvia aegyptiaca</i>	AI JI SHU WEI CAO
Eichwald Heliotrope*	T3170 <i>Heliotropium eichwaldii</i>	AI SHI TIAN JIE CAI
Einkorn	T6545 <i>Triticum monococcum</i>	DAN LI XIAO MAI
Elder*	T5707 <i>Sambucus williamsii</i>	JIE GU MU
Elecampane Inula	T3431 <i>Inula helenium</i>	TU MU XIANG
Elegant Goldenray*	T3804 <i>Ligularia elegans</i>	YA ZHI TUO WU
Elegant Sneezeweed*	T3137 <i>Helenium elegans</i>	YA MEI DUI XIN JU
Elegant Stephania	T6125 <i>Stephania elegans</i>	YA LI QIAN JIN TENG
Elephant Bone	T2337 <i>Elephas maximus</i>	XIANG GU
Elephant Gall	T2336 <i>Elephas maximus</i>	XIANG DAN
Elephant Meat	T2338 <i>Elephas maximus</i>	XIANG ROU
Elephant Tree	T1081 <i>Bursera microphylla</i>	XIAO YE LIE LAN
Ellgrass	T6925 <i>Zostera marina</i>	HAI DAI
Ellipse Navicula*	T4394 <i>Navicula delognei</i> f. <i>elliptica</i>	TUO YUAN ZHOU XING ZAO
Elliptic Aglaia*	T0234 <i>Aglaia elliptica</i>	TUE YUAN MI ZI LAN
Elliptic Gambirplant*	T6614 <i>Uncaria elliptica</i>	TUO YUAN GOU TENG
Elliptic Gynura*	T3087 <i>Gynura elliptica</i>	TUO YUAN SAN QI CAO
Elliptical Erycibe	T2447 <i>Erycibe elliptilimba</i>	AO MAI DING GONG TENG
Elliptical Ochrosia	T4469 <i>Ochrosia elliptica</i>	GU CHENG MEI GUI SHU
Ellipticleaf Olibanum*	T0995 <i>Boswellia ovalifoliolata</i>	TUO YUAN YE RU XIANG SHU
Ellipticleaf Pricklyash*	T6885 <i>Zanthoxylum ovalifolium</i>	TUO YUAN YE HUA JIAO
Ellisi Porous Agaric*	T5128 <i>Polyporus ellisii</i>	AI LI SI DUO KONG JUN
Elm-leaf Raspberry*	T5602 <i>Rubus ulmifolius</i>	YU YE MAO MEI
Elodia St.John'swort	T3348 <i>Hypericum elodeoides</i>	TING JING BIAN DI JIN
Elongate Andrographis*	T0454 <i>Andrographis elongata</i>	SHEN CHANG CHUAN XIN LIAN
Elongate Barrenwort	T2394 <i>Epimedium elongatum</i>	CHUAN XI YIN YANG HUO
Emarginate Amaranth	T0388 <i>Amaranthus lividus</i>	AO TOU XIAN
Emarginate Soapberry Seed	T5718 <i>Sapindus emarginatus</i>	AO TOU WU HUAN ZI

Emblc Leafflower	T4834 <i>Phyllanthus emblica</i>	AN MO LE
Emblc Leafflower Bark	T4836 <i>Phyllanthus emblica</i>	YOU GAN MU PI
Emblc Leafflower Leaf	T4837 <i>Phyllanthus emblica</i>	YOU GAN YE
Emblc Leafflower Root	T4835 <i>Phyllanthus emblica</i>	YOU GAN GEN
Emei Larkspur	T2081 <i>Delphinium omeiense</i>	E MEI CUI QUE HUA
Emei Spikemoss*	T5864 <i>Selaginella omeiensis</i>	E MEI JUAN BAI
Emitic Devilpepper	T5427 <i>Rauvolfia vomitoria</i>	CUI TU LUO FU MU
English Daisy	T0893 <i>Bellis perennis</i>	CHU JU
English Ivy	T3112 <i>Hedera helix</i>	YANG CHANG CHUN TENG
English Walnut Bark	T3569 <i>Juglans regia</i>	HU TAO SHU PI
English Walnut Exocarp	T3567 <i>Juglans regia</i>	HU TAO QING PI
English Walnut Leaf	T3570 <i>Juglans regia</i>	HU TAO YE
English Walnut Seed	T3568 <i>Juglans regia</i>	HU TAO REN
Enormous Euphorbia	T2593 <i>Euphorbia ingens</i>	JU DA JI
Entire Groundsel	T5889 <i>Senecio integerrimus</i>	QUAN YUAN QIAN LI GUANG
Entire Micromelum	T4223 <i>Micromelum integerrimum</i>	XIAO YUN MU
Entire Ochna	T4465 <i>Ochna integerrima</i>	JIN LIAN MU
Entireleaf Gymnopetalum	T3081 <i>Gymnopetalum integrifolium</i>	FENG GUA
Erect Fig	T2716 <i>Ficus beecheyana</i> [Syn. <i>Ficus erecta</i> var. <i>beecheyana</i>]	TIAN XIAN GUO
Erect Hypecoum	T3332 <i>Hypecoum erectum</i>	ZHI LI JIAO HUI XIANG
Erect Juniper*	T3586 <i>Juniperus erectopatens</i>	ZHI LI CI BAI
Erect Periwinkle	T6759 <i>Vinca erecta</i>	ZHI LI CHANG CHUN HUA
Erect St.John'swort	T3349 <i>Hypericum erectum</i>	XIAO LIAN QIAO
Erect Stephania*	T6126 <i>Stephania erecta</i>	ZHI LI QIAN JIN TENG
Ergot	T1541 <i>Claviceps purpurea</i>	MAI JIAO
Ermans Birch	T0931 <i>Betula ermanii</i>	YUE HUA
Ernest Milkvetch*	T0794 <i>Astragalus ernestii</i>	SUO GUO HUANG QI
Eschscholtz Falsehellebore*	T6695 <i>Veratrum eschscholtzii</i>	AI XI SHOU SHI LI LU
Ethiopian Jujube*	T6921 <i>Zizyphus abyssinica</i>	AI SAI E BI YA ZAO
Eucalyptus Leaf	T2510 <i>Eucalyptus globulus</i>	AN YE
Euchretaleaf Common Jasminorange	T4317 <i>Murraya euchrestifolia</i> [Syn. <i>Clausena euchrestifolia</i>]	DOU YE JIU LI XIANG
Eucommia	T2530 <i>Eucommia ulmoides</i>	DU ZHONG
Eucommia Leaf	T2531 <i>Eucommia ulmoides</i>	DU ZHONG YE
Eupatoriumlike Inula	T3429 <i>Inula eupatorioides</i>	ZE LAN YANG ER JU
Eurasia Greenbrier	T5974 <i>Smilax aspera</i>	SUI BA QIA
European Alder	T0326 <i>Alnus glutinosa</i>	OU ZHOU QI MU
European Ash	T2768 <i>Fraxinus excelsior</i>	OU ZHOU BAI LA SHU
European Barberry	T0919 <i>Berberis vulgaris</i>	OU ZHOU XIAO BO
European Beech	T2662 <i>Fagus sylvatica</i>	OU ZHOU SHUI QING GANG
European Bladdernut, Pinnate Bladdernut	T6098 <i>Staphylea pinnata</i>	OU ZHOU SHENG GU YOU
European Boxwood	T1094 <i>Buxus sempervirens</i>	JIN SHU HUANG YANG
European Bugleweed	T3979 <i>Lycopus europaeus</i>	OU DI SUN
European Columbine	T0558 <i>Aquilegia vulgaris</i>	OU ZHOU LOU DOU CAI
European Cowlily	T4449 <i>Nuphar luteum</i>	OU ZHOU PING PENG CAO
European Cowparsnip*	T3220 <i>Heracleum pyrenaicum</i>	OU ZHOU DU HUO
European Euonymus	T2539 <i>Euonymus europaeus</i>	OU ZHOU WEI MAO
European Goldenrod	T6023 <i>Solidago virgaurea</i>	MAO GUO YI ZHI HUANG HUA
European Grape	T6798 <i>Vitis vinifera</i>	PU TAO
European Grape Stem and Leaf	T6799 <i>Vitis vinifera</i>	PU TAO TENG YE
European Gymnadenia	T3076 <i>Gymnadenia albida</i>	BAI SHOU SHEN
European Hop Female-flower	T3289 <i>Humulus lupulus</i>	PI JIU HUA
European Ladyslipper	T1983 <i>Cypripedium calceolus</i>	SHAO LAN
European Leadwort*	T5027 <i>Plumbago europaea</i>	OU ZHOU LAN MO LI

European Mountainash	T6053 <i>Sorbus aucuparia</i>	OU ZHOU HUA QIU
European Privet	T3831 <i>Ligustrum vulgare</i>	OU ZHOU NV ZHEN
European Pyrola	T5351 <i>Pyrola rotundifolia</i>	YUAN YE LU TI CAO
European Scopolia	T5820 <i>Scopolia carnioica</i>	OU LANG DANG
European Silver Fir	T0003 <i>Abies alba</i>	OU ZHOU LENG SHAN
European Stickseed	T3688 <i>Lappula echinata</i>	DONG BEI HE SHI
European Strawberry	T2764 <i>Fragaria vesca</i>	YE CAO MEI
European Waterhemlock Root	T1416 <i>Cicuta virosa</i>	DU QIN GEN
European Verbena	T6709 <i>Verbena officinalis</i>	MA BIAN CAO
Evergreen Dogwood	T1696 <i>Cornus capitata</i> [Syn. <i>Dendrobenthamia capitata</i>]	JI SU ZI
Evergreen Euonymus	T2542 <i>Euonymus japonicus</i>	TIAO JING CAO
Evergreen Mucuna	T4311 <i>Mucuna sempervirens</i>	CHANG CHUN YOU MA TENG
Evergreen Wood Fern	T2283 <i>Dryopteris marginalis</i>	BIAN BAO LIN MAO JUE
Everlasting Pea	T3704 <i>Lathyrus latifolius</i>	SU GEN XIANG WAN DOU
Ewers Stonecrop*	T5854 <i>Sedum ewersii</i>	YI WO SI JING TIAN
Expanse Erycibe*	T2448 <i>Erycibe expansa</i>	GUANG BU DING GONG TENG
Expansum Fig*	T4201 <i>Mesembryanthemum expansum</i>	KUO ZHANG SONG YE JU
Extended Wingfruitvine	T4350 <i>Myriopteron extensum</i>	CHI GUO TENG
Extracts of Aloe spp.	T0346 <i>Aloe</i> spp.	DUO ZHONG LU HUI TI QU WU
Extreme-fragrant Machilus*	T4017 <i>Machilus odoratissima</i>	JI XIANG RUN NAN
Extreme-fragrant Tailgrape*	T0655 <i>Artabotrys odoratissimus</i>	JI XIANG YING ZHAO
Extreme-fragrant Yarrow*	T0062 <i>Achillea fragrantissima</i>	JI XIANG SHI CAO
Extreme-wide Coralbean*	T2467 <i>Erythrina latissima</i>	JI KUAN CI TONG
Eyelid-leaf Sage*	T5660 <i>Salvia blepharophylla</i>	JIE MAO YE SHU WEI CAO
Eyeshaped Dendrobium	T2102 <i>Dendrobium fimbriatum</i> var. <i>oculatum</i>	LIU SU SHI HU
Faber Galeola	T2826 <i>Galeola faberi</i>	SHAN HU LAN
Faber Groundsel	T5887 <i>Senecio faberi</i>	MI SAN QIAN LI GUANG
Faber Meadowrue	T6381 <i>Thalictrum faberi</i>	DA YE TANG SONG CAO
Faber's St. John'swort	T3350 <i>Hypericum faberi</i>	YANG ZI XIAO LIAN QIAO
Fairy Primrose	T5199 <i>Primula malacoides</i>	BAO CHUN HUA
Falcate Micromelum	T4221 <i>Micromelum falcatum</i>	XIAO GAN
Falcate Milkvetch*	T0795 <i>Astragalus falcatus</i>	LIAN XING HUANG QI
Falcon Monkshood*	T0092 <i>Aconitum falconeri</i>	FA KANG WU TOU
Fallax Cladonia Lichen	T1525 <i>Cladonia fallax</i>	JIN SHUA BA
Falsa Arnica (in Brazil)	T3952 <i>Lychnophora ericoides</i>	
False Chinese Swertia	T6231 <i>Swertia pseudochinensis</i>	ZHANG YA CAI
False Goldenray*	T3818 <i>Ligulariopsis shichuana</i>	JIA TUO WU
False Iris*	T3470 <i>Iris spuria</i>	JIA YUAN WEI
False Narcissus*	T4380 <i>Narcissus pseudonarcissus</i> ssp. <i>pseudonarcissus</i>	JIA SHUI XIAN
False Simon Poplar	T5157 <i>Populus pseudo-simonii</i>	XIAO QING YANG
Falselittleconical Rabdosia	T5390 <i>Rabdosia coetsoides</i>	JIA XI ZHUI XIANG CHA CAI
Falsenettleleaf Pepper	T4938 <i>Piper boehmeriaefolium</i>	ZHU YE JU
Falsesour Cherry	T5236 <i>Prunus pseudocerasus</i>	YING TAO
Fangchi	T0628 <i>Aristolochia fangchi</i>	GUANG FANG JI
Fan-shaped Coralloidiscus	T1672 <i>Coralloidiscus flabellatus</i> [Syn. <i>Didissandra flabellat</i>]	SHI DAN CAO
Farges Aralia	T0574 <i>Aralia fargesii</i>	LONG YAN DU HUO
Farges Epimedium	T2395 <i>Epimedium fargesii</i>	CHUAN E YIN YANG HUO
Farges Glorybower*	T1564 <i>Clerodendron trichotomum</i> var. <i>fargesii</i>	AI TONG ZI
Farges Holboellia	T3270 <i>Holboellia fargesii</i>	WU YE GUA TENG
Farges Meadowrue	T6382 <i>Thalictrum fargesii</i>	CHENG KOU TANG SONG CAO
Farges Paris	T4647 <i>Paris fargesii</i>	QIU YAO GE CHONG LOU
Fascicled Bushmint*	T3379 <i>Hyptis fasciculata</i>	CU SHENG SHAN XIANG
Fascicled Swertia*	T6220 <i>Swertia fasciculata</i>	CU HUA ZHANG YA CAI

Fasle Yellowflower Milkwort*	T5075 <i>Polygala fallax</i> [Syn. <i>Polygala aureocauda</i>]	JIA HUANG HUA YUAN ZHI
Fatraina (in Madagascar)	T5702 <i>Samadera madagascariensis</i>	MA DAO HUANG LIAN SHU
Faurie Crapemyrtle*	T3669 <i>Lagerstroemia fauriei</i>	FU RUI ZI WEI
Faurie Shield Fern*	T5132 <i>Polystichum fauriei</i>	FU RUI ER JUE
Faurie's Brake	T5290 <i>Pteris fauriei</i> [Syn. <i>Pteris fauriei</i> var. <i>minor</i>]	JIN CHAI FENG WEI JUE
Feather Cockscomb	T1296 <i>Celosia argentea</i>	QIANG XIANG
Feathered Geranium	T1362 <i>Chenopodium botrys</i>	XIANG LI
Featherleaf Rodgersflower	T5555 <i>Rodgersia pinnata</i>	YU YE GUI DENG QING
Febrifuge Holarrhena*	T3265 <i>Holarrhena febrifuga</i>	TUI RE ZHI XIE MU
Female fall webworm moth	T3370 <i>Hyphantria cunea</i>	
Fen Orchid	T3862 <i>Liparis loeselii</i>	LUO XI YANG ER SUAN
Fendler's Meadowrue	T6383 <i>Thalictrum fendleri</i>	FEN SHI TANG SONG CAO
Fengqing Kadsura	T3615 <i>Kadsura interior</i>	NEI NAN WU WEI ZI
Fennel Fruit	T2744 <i>Foeniculum vulgare</i>	HUI XIANG
Fennel Root	T2745 <i>Foeniculum vulgare</i>	HUI XIANG GEN
Fennel Stem and Leaf	T2746 <i>Foeniculum vulgare</i>	HUI XIANG JING YE
Fennelleaf Pondweed	T5177 <i>Potamogeton pectinatus</i>	<i>BI CHI YAN ZI CAI</i>
Fernlike Asparagus	T0749 <i>Asparagus filicinus</i>	TU BAI BU
Ferruginous Rosewood*	T2003 <i>Dalbergia ferruginea</i>	TIE XIU SE HUANG TAN
Ferruginous Snowbell*	T6198 <i>Styrax ferrugineus</i>	<i>XIU SE AN XI XIANG</i>
Fewcalycle Groundsel*	T5895 <i>Senecio paucicazyculatus</i>	SHAO FU E QIAN LI GUANG
Feverfew	T6294 <i>Tanacetum parthenium</i>	CHU AI JU
Fevervine	T4577 <i>Paederia scandens</i>	JI SHI TENG
Fevervine Fruit	T4578 <i>Paederia scandens</i>	JI SHI TENG GUO
Fewflower Kopsia*	T3644 <i>Kopsia pauciflora</i>	SHAO HUA RUI MU
Fewflower Lysionotus	T4005 <i>Lysionotus pauciflorus</i>	SHI DIAO LAN
Few-flowered Fumitory	T2810 <i>Fumaria vaillantii</i>	WEI LAN QIU GUO ZI JIN
Fewradiate Bailai's Chrysanthemum*	T0855 <i>Baileya pauciradiata</i>	SHAO BIAN HUA BAI LAI SHI JU
Ffat-footed Clitocybe	T1576 <i>Clitocybe clavipes</i>	BANG BING BEI SAN
Fiddle-leaf Resurrectionlily*	T3622 <i>Kaempferia pandurata</i>	TI QIN ZHUANG SHAN NAI
Field Bindweed	T1650 <i>Convolvulus arvensis</i>	TIAN XUAN HUA
Field Goniothalamus*	T3042 <i>Goniothalamus arvensis</i>	TIAN YE GE NA XIANG
Field Groundsel	T5894 <i>Senecio oryzetorum</i>	DA BAI DING CAO
Field Lacquertree	T6482 <i>Toxicodendron succedaneum</i> [Syn. <i>Rhus succedanea</i>]	LIN BEI ZI
Field Marigold	T1112 <i>Calendula arvensis</i>	XIAO JIN ZHAN HUA
Field Pepperwort	T3756 <i>Lepidium campestre</i>	HUANG YE DU XING CAI
Field Sowthistle	T6025 <i>Sonchus arvensis</i>	NIU SHE TOU
Fig	T2717 <i>Ficus carica</i>	WU HUA GUO
Fig Leaf	T2718 <i>Ficus carica</i>	WU HUA GUO YE
Figuerleaved Brake	T5289 <i>Pteris dactylina</i>	JIN JI WEI
Figwortflower Picrorhiza	T4888 <i>Picrorhiza scrophulariiflora</i>	XI ZANG HU HUANG LIAN
Fiji Fagara*	T2655 <i>Fagara vitiensis</i>	FEI JI AI JIAO
Fiji Garcinia*	T2871 <i>Garcinia pseudoguttifera</i>	FEI JI TENG HUANG
Filamentary Meadowrue	T6384 <i>Thalictrum filamentosum</i>	HUA TANG SONG CAO
Filiform Cassytha	T1251 <i>Cassytha filiformis</i>	WU YE TENG
Fimbriate Dendrobium*	T2101 <i>Dendrobium fimbriatum</i>	LIU SU JIN SHI HU
Fimbriate Falsehellebore*	T6696 <i>Veratrum fimbriatum</i>	LIU SU LI LU
Findley Dendrobium*	T2103 <i>Dendrobium findleyanum</i>	FEN LAI SHI HU
Fineleaf Schizonepeta	T5804 <i>Schizonepeta tenuifolia</i> [Syn. <i>Nepeta tenuifolia</i>]	JING JIE
Fine-leaved Fumitory	T2808 <i>Fumaria parviflora</i>	XIAO HUA QIU GUO ZI JIN
Fine-leaved Gay-feather*	T3795 <i>Liatris tenuifolia</i>	XI YE SHE BIAN JU
Fine-leaved Sneezeweed	T3141 <i>Helenium tenuifolium</i>	XI YE DUI XIN JU
Fine-leaved Yarrow	T0064 <i>Achillea leptophylla</i>	XI YE SHI

Fine-nerved Plagiogyria	T4998 <i>Plagiogyria euphlebia</i>	HUA ZHONG LIU ZU JUE
Finet Monkshood	T0094 <i>Aconitum finetianum</i>	GAN WAN WU TOU
Fingerleaf Rodgersflower	T5554 <i>Rodgersia aesculifolia</i>	MU HE
First Wormwood	T0689 <i>Artemisia princeps</i>	KUI HAO
Fischer Euphorbia	T2587 <i>Euphorbia fischeriana</i>	LANG DU DA JI
Fish Pelargonium	T4691 <i>Pelargonium hortorum</i>	SHI LA HONG
Fisherman Leafflower*	T4841 <i>Phyllanthus piscatorum</i>	YU FU YE XIA ZHU
Fishhook Cactus	T4097 <i>Mammillaria microcarpa</i>	XIAO GUO YIN MAO QIU
Fistular Onion	T0314 <i>Allium fistulosum</i>	CONG BAI
Fiveangular Senna*	T1243 <i>Cassia quinquangula</i>	WU LENG JUE MING
Fiveleaf Akebia	T0273 <i>Akebia quinata</i>	MU TONG
Fiveleaf Akebia Root	T0274 <i>Akebia quinata</i>	MU TONG GEN
Fiveleaf Akebia Seed	T0275 <i>Akebia quinata</i>	YU ZHI ZI
Fiveleaf Carpetweed	T4261 <i>Mollugo pentaphylla</i>	SU MI CAO
Fiveleaf Crotalaria*	T1829 <i>Crotalaria quinquefolia</i>	WU YE ZHU SHI DOU
Fiveleaf Gynostemma	T3085 <i>Gynostemma pentaphyllum</i>	JIAO GU LAN
Five-leaf Merremia*	T4198 <i>Merremia quinquefolia</i>	WU YE YU HUANG CAO
Fiveribbed Thyme	T6450 <i>Thymus quinquecostatus</i>	WU MAI BAI LI XIANG
Five-room Honeysuckle*	T3917 <i>Lonicera quinquelocularis</i>	WU SHI REN DONG
Fivestyle Larkspur*	T2083 <i>Delphinium pentagynum</i>	WU ZHU FEI YAN CAO
Flabellate Galangal*	T0355 <i>Alpinia flabellata</i>	SHAN SHAN JIANG
Flaccid Anemone	T0467 <i>Anemone flaccida</i>	E ZHANG CAO
Flaccid Knotweed	T5105 <i>Polygonum hydropiper</i> var. <i>flaccidum</i> [Syn. <i>Polygonum flaccidum</i>]	LA LIAO
Flagelliform Liverwort*	T0885 <i>Bazzania trilobata</i>	BIAN TAI
Flamboyanttree	T2060 <i>Delonix regia</i>	FENG HUANG MU
Flameray Gerbera	T2951 <i>Gerbera jamesonii</i>	FU LANG HUA
Flannel Mullein	T6705 <i>Verbascum thapsus</i>	MAO RUI HUA
Flatfruit Gynostemma	T3083 <i>Gynostemma compressum</i>	BIAN GUO JIAO GU LAN
Flatshoot Mistletoe	T6774 <i>Viscum articulatum</i>	FENG XIANG JI SHENG
Flatshort Mistletoe	T6773 <i>Viscum articulatum</i>	BIAN ZHI HU JI SHENG
Flatspine Pricklyash Bark	T6894 <i>Zanthoxylum simulans</i>	YE HUA JIAO PI
Flatspine Pricklyash Leaf	T6895 <i>Zanthoxylum simulans</i>	YE HUA JIAO YE
Flatspine Pricklyash Root	T6893 <i>Zanthoxylum simulans</i>	YE HUA JIAO GEN
Flatstem Lilyturf*	T4508 <i>Ophiopogon planiscapus</i>	BIAN JING YAN JIE CAO
Flatstem Milkvetch	T0793 <i>Astragalus complanatus</i>	BIAN JING HUANG QI
Flatstiped Corydalis	T1727 <i>Corydalis mucronifera</i>	BIAN BING HUANG JIN
Flavescent Crotalaria*	T1820 <i>Crotalaria fulva</i>	AN HUANG ZHU SHI DOU
Flavescent Croton*	T1845 <i>Croton flavens</i>	DAN HUANG BA DOU
Flax Lily	T2141 <i>Dianella tasmanica</i>	TA SI MA NI YA JIE GENG LAN
Fleecy Milk-cap	T3657 <i>Lactarius vellereus</i>	RONG BAI RU GU
Fleshfingered Citron	T1501 <i>Citrus medica</i> var. <i>sarcodactylis</i>	FO SHOU
Fleshy Artocarpus*	T0709 <i>Artocarpus altilis</i>	FEI HOU MIAN BAO GUO
Fleshy-flower Hemsleya	T3204 <i>Hemsleya carnosiflora</i>	ROU HUA XUE DAN
Flexedstem Rabdosia	T3489 <i>Isodon flexicaulis</i>	ROU JING XIANG CHA CAI
Flexuose Climbing Fern	T3989 <i>Lygodium flexuosum</i> [Syn. <i>Lygodium pinnatifidum</i> ; <i>Ophioglossum flexuosum</i>]	QU ZHOU HAI JIN SHA
Flexuose Leafflower*	T4838 <i>Phyllanthus flexuosus</i>	LUO E YE XIA ZHU
Flexuose Bitterleaf*	T6717 <i>Vernonia flexuosa</i>	WAN YAN BAN JIU JU
Flexuose Lemongrass*	T1942 <i>Cymbopogon flexuosus</i>	WAN YAN XIANG MAO
Flexuose Milkvetch *	T0796 <i>Astragalus flexuosus</i>	WAN YAN HUANG QI
Flixweed Tansymustard Seed	T2125 <i>Descurainia sophia</i>	BO NIANG HAO
Floatingleaf Pondweed	T5176 <i>Potamogeton natans</i>	FU YE YAN ZI CAI

Florida Waltheria	T6808 <i>Waltheria americana</i>	HE TA CAO
Florida Yellowtrumpet	T6324 <i>Tecoma stans</i>	HUANG ZHONG HUA
Florists Chrysanthemum Flower	T1395 <i>Chrysanthemum morifolium</i> [Syn. <i>Dendranthema morifolium</i>]	JU HUA
Florists Cyclamen	T1930 <i>Cyclamen persicum</i>	XIAN KE LAI
Flowering Ash	T2773 <i>Fraxinus ornus</i>	HUA BAI LA SHU
Flowering Fern	T4553 <i>Osmunda ragalis</i>	OU ZI QI
Flowery Stonebean-orchis	T1053 <i>Bulbophyllum odoratissimum</i> [Syn. <i>Stelis odoratissimum</i>]	MI HUA SHI DOU LAN
Fluticose Germander*	T6361 <i>Teucrium fruticans</i>	GUAN CONG XIANG KE KE
Foetid Giantfennel*	T2700 <i>Ferula foetida</i>	CHOU A WEI
Folk Coralbean*	T2465 <i>Erythrina folkersii</i>	FU KE CI TONG
Folkers Coralbean*	T2463 <i>Erythrina crysragalli</i>	JI GUAN CI TONG
Fomes Officinalis Sporocarp	T2749 <i>Fomes officinalis</i>	A LI HONG
Foochow Yam	T2197 <i>Dioscorea futschauensis</i>	FU ZHOU SHU YU
Forbes Notopterygium	T4445 <i>Notopterygium forbesii</i> [Syn. <i>Notopterygium franchetii</i>]	KUAN YE QIANG HUO
Forbes Wildginger	T0726 <i>Asarum forbesii</i>	DU HENG
Fordi Lasianthus*	T3697 <i>Lasianthus fordii</i>	
Fordi Phlegmariusus	T4800 <i>Phlegmariusus fordii</i>	HUA NAN MA WEI SHAN
Forest Gray Gum Leaf	T2521 <i>Eucalyptus tereticornis</i>	XI YE AN YE
Forest Horsetail	T2412 <i>Equisetum sylvaticum</i>	LIN WEN JING
Forest Mint	T4192 <i>Mentha sylvestris</i>	SEN LIN BO HE
Formosan False Cypress	T1347 <i>Chamaecyparis formosensis</i>	HONG GUI
Formosan Michelia*	T4211 <i>Michelia compressa</i> var. <i>formosana</i>	WU XIN SHI
Forrest Bugle	T0264 <i>Ajuga forrestii</i>	LI ZHI HAO
Forrest Gingerlily	T3119 <i>Hedychium forrestii</i>	YUAN BAN JIANG HUA
Forrest Pyrola	T5348 <i>Pyrola forrestiana</i>	DA LI LU TI CAO
Forrest Rabdosia*	T3490 <i>Isodon forrestii</i>	ZI E XIANG CHA CAI
Forrest Silkvine	T4726 <i>Periploca forrestii</i>	XI NAN GANG LIU
Forrest's St.John'swort	T3352 <i>Hypericum forrestii</i>	CHUAN DIAN JIN SI TAO
Forskahl Coleus	T1619 <i>Coleus barbatus</i>	RAN MAO QIAO RUI HUA
Forskahl Coleus	T1620 <i>Coleus forskalii</i>	MAO HOU QIAO RUI HUA
Forster Ninenode*	T5275 <i>Psychotria forsteriana</i>	FU SI TE JIU JIE
Fortunate Wood Fern	T2287 <i>Dryopteris sublaeta</i>	QIAN LIE LIN MAO JUE
Fortune Eupatorium	T2559 <i>Eupatorium fortunei</i>	PEI LAN
Fortune Japanese Spiraea	T6082 <i>Spiraea japonica</i> var. <i>fortunei</i>	GUANG YE FEN HUA XIU XIAN JU
Fortune Meadowrue	T6388 <i>Thalictrum fortunei</i>	HUA DONG TANG SONG CAO
Fortune Paulownia	T4678 <i>Paulownia fortunei</i>	PAO TONG
Fortune Plumyew	T1318 <i>Cephalotaxus fortunei</i>	SAN JIAN SHAN
Fortune Windmillpalm	T6485 <i>Trachycarpus fortunei</i>	ZONG LV PI
Fortune's Drynaria Rhizome	T2273 <i>Drynaria fortunei</i>	GU SUI BU
Fortune's Holly Fern	T1986 <i>Cyrtomium fortunei</i>	HUN TOU JI
Fortune Euonymus	T2540 <i>Euonymus fortunei</i>	FU FANG TENG
<i>Fouquieria splendens</i>	T2762 <i>Fouquieria splendens</i>	HUA LAI CI SHU
Four Sepals Gaultheria	T2894 <i>Gaultheria tetramera</i>	SI LIE BAI ZHU
Four-arris Eupatorium*	T2568 <i>Eupatorium quadrangularae</i>	SI LENG ZE LAN
Fourfile Germander	T6367 <i>Teucrium quadrifarium</i>	TIE ZHOU CAO
Fourflower Litsea	T3886 <i>Litsea euosma</i>	QING XIANG MU JIANG ZI
Foursplit Rhodiola	T5498 <i>Rhodiola quadrifida</i>	SI LIE HONG JING TIAN
Fourstamen Stephania	T6136 <i>Stephania tetrandra</i>	FANG JI
Fourteech Schnabelia	T5807 <i>Schnabelia tetradonta</i>	SI CHI SI LENG CAO
Fourwing Eveningprimrose*	T4483 <i>Oenothera tetraptera</i>	SI CHI YUE JIAN CAO
Fourwing Milkvetch*	T0808 <i>Astragalus tetraplerus</i>	SI CHI HUANG QI
Foveolate Aglaia*	T0236 <i>Aglaia foveolata</i>	FENG CHAO MI ZI LAN
Foxglove-like Sage	T5671 <i>Salvia digitaloides</i>	MAO DI HUANG SHU WEI CAO

Foxtail Millet	T5938 <i>Setaria italica</i>	SU MI
Foxtail-like Galingale	T1973 <i>Cyperus alopecuroides</i>	KAN MAI NIANG ZHUANG SHA CAO
Foxtail-like Sophora	T6029 <i>Sophora alopecuroides</i>	KU DOU ZI
Foxtail-like Sophora Root*	T6028 <i>Sophora alopecuroides</i>	KU DOU GEN
Fragile Codium Frond	T1595 <i>Codium fragile</i>	SHUI SONG
Fragrant Albizia*	T0295 <i>Albizzia odoratissima</i>	XIANG HE HUAN
Fragrant Citrus	T1486 <i>Citrus junos</i>	CHENG ZI
Fragrant Citrus Seed	T1487 <i>Citrus junos</i>	CHENG ZI HE
Fragrant Datura*	T2040 <i>Datura metaloides</i>	XIANG MAN TUO LUO
Fragrant Erythrophleum	T2487 <i>Erythrophleum suaveolens</i>	YE XIANG GE MU
Fragrant Eupatorium	T2567 <i>Eupatorium odoratum</i>	FEI JI CAO
Fragrant Gananga	T1164 <i>Cananga odorata</i>	YI LAN
Fragrant Gaultheria	T2891 <i>Gaultheria fragrantissima</i>	FANG XIANG BAI ZHU
Fragrant Glorybower	T1556 <i>Clerodendron fragrans</i>	CHOU MO LI
Fragrant Gynocardia	T3082 <i>Gynocardia odorata</i>	MA DAN GUO
Fragrant Sneezeweed*	T3133 <i>Helenium aromaticum</i>	FANG XIANG DUI XIN JU
Fragrant Snowbell	T6201 <i>Styrax obassia</i>	YU LING HUA
Fragrant Solomonseal	T5093 <i>Polygonatum odoratum</i> [Syn. <i>Polygonatum officinale</i>]	YU ZHU
Fragrant Tailgrape*	T0656 <i>Artabotrys suaveolens</i>	XIANG YING ZHAO
Franchet Groundcherry	T4846 <i>Physalis alkekengi</i> var. <i>franchetii</i>	GUA JIN DENG
Franchet Groundcherry Root	T4847 <i>Physalis alkekengi</i> var. <i>franchetii</i>	GUA JIN DENG GEN
Franchet Monkshood	T0097 <i>Aconitum franchetii</i>	DA DU WU TOU
Franchet Sophora	T6033 <i>Sophora franchetiana</i>	MIN HUAI
Frangipani	T5032 <i>Plumeria rubra</i>	HONG JI DAN HUA
Free-flowering Barberry	T0904 <i>Berberis floribunda</i>	DUO HUA XIAO BO
French Broom	T1989 <i>Cytisus monspessulanus</i>	FA GUO JIN QUE ER
French Marigold	T6282 <i>Tagetes patula</i>	KONG QUE CAO
French Rose	T5565 <i>Rosa gallica</i>	FA GUO QIANG WEI
French Tamarisk	T6287 <i>Tamarix gallica</i>	FA GUO CHENG LIU
Fresh Common Ginger	T6910 <i>Zingiber officinale</i>	SHENG JIANG
Fringecups	T6328 <i>Tellima grandifolia</i>	XIN SHAO NA CAO
Fringed Iris	T3461 <i>Iris japonica</i>	HU DIE HUA
Froes Poisonnut*	T6173 <i>Strychnos froesii</i>	FU SHI MA QIAN ZI
Frog Orchid	T1604 <i>Coeloglossum viride</i> [Syn. <i>Coeloglossum viride</i> var. <i>bracteatum</i>]	AO SHE LAN
Frutescent Cladostachys	T2058 <i>Deeringia amaranthoides</i> [Syn. <i>Cladostachys frutescens</i>]	JIANG GUO XIAN
Fruticose Cudrania	T1885 <i>Cudrania fruticosa</i>	ZHE TENG
Fruticose Thorowax*	T1061 <i>Bupleurum frutescens</i>	MU CHAI HU
Fugacious Poppy*	T4628 <i>Papaver fugax</i>	YI XIAN YING SU
Fukang Giantfennel Root	T2701 <i>Ferula fukanensis</i>	FU KANG A WEI GEN
Fukien Wildginger	T0727 <i>Asarum fukienense</i>	FU JIAN XI XIN
Funadoko Orange*	T1477 <i>Citrus funadoko</i>	ZHOU CHANG JU
Fungus Coprinopsis episcopalis	T1659 <i>Coprinopsis episcopalis</i>	
Fungus Curvularia lunata	T1910 <i>Curvularia lunata</i>	
Fungus <i>Gelasinospora santi-florii</i>	T2896 <i>Gelasinospora santi-florii</i>	
Fungus Lasiodiplodia theobromae	T3700 <i>Lasiodiplodia theobromae</i>	
Fungus <i>Stachybotrys atra</i>	T6089 <i>Stachybotrys atra</i>	
Fungus <i>Stachybotrys chartarum</i>	T6090 <i>Stachybotrys chartarum</i>	
Fungus <i>Stachybotrys nephrospora</i>	T6091 <i>Stachybotrys nephrospora</i>	
Fungus-infected Rice Spike	T6655 <i>Ustilagoidea virens</i>	JING GU NU
Funneled Physochlaina	T4858 <i>Physochlaina infundibularis</i>	LOU DOU PAO NANG CAO
Furcate Angelica*	T0481 <i>Angelica furcijuga</i>	FEN CHA DANG GUI

Furcate Gloiopeltis Frond	T2994 <i>Gloiopeltis furcata</i>	LU JIAO CAI
Furfuraceous Many-flowered May-apple*	T2299 <i>Dysosma furfuracea</i>	BI LIN BA JIAO LIAN
Furstamen Prismatomeris	T5207 <i>Prismatomeris tetrandra</i>	NAN SHAN HUA
Gabon Uvaria*	T6663 <i>Uvaria klaineana</i>	JIA PENG ZI YU PAN
Galanga Galangal	T0356 <i>Alpinia galanga</i>	DA LIANG JIANG
Galanga Resurrectionlily	T3620 <i>Kaempferia galanga</i>	SHAN NAI
Galericulate Skullcap	T5838 <i>Scutellaria galericulata</i>	BING TOU CAO
Gambier Gambirplant	T6615 <i>Uncaria gambir</i>	ER CHA GOU TENG
Gamboge Tree Resin	T2866 <i>Garcinia morella</i>	TENG HUANG
Gansu Greenbrier	T5980 <i>Smilax menispermoidea</i>	FANG JI YE BA QIA
Garabato; Uganangi; Cat's Claw	T6616 <i>Uncaria guianensis</i>	GUI YA NA GOU TENG
Garden Balsam	T3410 <i>Impatiens balsamina</i>	FENG XIAN
Garden Balsam Seed	T3412 <i>Impatiens balsamina</i>	JI XING ZI
Garden Balsum Flower	T3411 <i>Impatiens balsamina</i>	FENG XIAN HUA
Garden Burnet	T5712 <i>Sanguisorba officinalis</i>	DI YU
Garden Chervil	T0528 <i>Anthriscus cerefolium</i>	XUE WEI CAI
Garden Cress	T3758 <i>Lepidium sativum</i>	JIA DU XING CAI
Garden Eggplant	T6007 <i>Solanum melongena</i>	QIE ZI
Garden Eggplant Leaf	T6006 <i>Solanum melongena</i>	QIE YE
Garden Euphorbia	T2590 <i>Euphorbia hirta</i>	DA FEI YANG CAO
Garden Lettuce	T3662 <i>Lactuca sativa</i>	WO JU
Garden Lovage	T3785 <i>Levisticum officinale</i>	OU DANG GUI
Garden Millingtonia	T4247 <i>Millingtonia hortensis</i>	ZI MEI SHU
Garden Pansy	T6766 <i>Viola tricolor</i>	SAN SE JIN
Garden Parsnip	T4669 <i>Pastinaca sativa</i>	OU FANG FENG
Garden Pea	T4983 <i>Pisum sativum</i>	WAN DOU
Garden Plum	T5222 <i>Prunus domestica</i>	YANG LI
Garden Radish	T5419 <i>Raphanus sativus</i>	LAI FU
Garden Radish Seed	T5420 <i>Raphanus sativus</i>	LAI FU ZI
Garden Sorrel	T5605 <i>Rumex acetosa</i>	SUAN MO
Garden Sorrel Leaf	T5606 <i>Rumex acetosa</i>	SUAN MO YE
Garlic	T0318 <i>Allium sativum</i>	DA SUAN
Garlicsmell Germander*	T6368 <i>Teucrium scordium</i>	SUAN WEI XIANG KE KE
Garou Bush	T2025 <i>Daphne gnidium</i>	JING YA MA YE RUI XIANG
Garretti Senna*	T1233 <i>Cassia garrettiana</i>	JIA LEI JUE MING
Gaudicha Garcinia*	T2855 <i>Garcinia gaudichaudii</i>	GAO DI CHA SHAN ZHU ZI
Gaumei Fringe-petal*	T1811 <i>Crossopetalum gaumeri</i>	GAO MEI YING BAN
Gay-feather	T3793 <i>Liatris spicata</i>	SHE BIAN JU
Geckowood	T5748 <i>Sauropus androgynus</i>	TONG XU SHOU GONG MU
Geniculate Monkshood	T0098 <i>Aconitum geniculatum</i>	XI BAN WU TOU
Genipa	T2900 <i>Genipa americana</i>	JING NI PING
Genonggang	T1783 <i>Cratoxylum arborescens</i>	QIAO MU ZHUANG HUANG NIU MU
Genuflex Angelica*	T0482 <i>Angelica genuflexa</i>	QU XI DANG GUI
Gerard Ephedra	T2368 <i>Ephedra gerardiana</i>	SHAN LING MA HUANG
Gerard Linearstripe Rabdosia*	T3508 <i>Isodon lophanthoides</i> var. <i>gerardiana</i>	XIA JI XIAN WEN XIANG CHA CAI
Gerbera	T2950 <i>Gerbera anandria</i> [Syn. <i>Leibnitzia anandria</i>]	DA DING CAO
German Catchfly	T3951 <i>Lychnis viscaria</i>	YANG JIAN QIU LUO
German Gentian	T2911 <i>Gentiana germanica</i>	DE GUO LONG DAN
German Iris	T3459 <i>Iris germanica</i>	DE GUO YUAN WEI
Gesnerialike Rabdosia	T3491 <i>Isodon gesneroides</i>	JU TAI XIANG CHA CAI
Ghostplant Wormwood	T0680 <i>Artemisia lactiflora</i>	YA JIAO AI
Giant Dogwood	T1697 <i>Cornus controversa</i> [Syn. <i>Bothrocaryum controversum</i>]	DENG TAI SHU
Giant Granadilla	T4667 <i>Passiflora quadrangularis</i>	DA GUO XI FAN LIAN

Giant Hemsleya	T3206 <i>Hemsleya gigantea</i>	JU HUA XUE DAN
Giant Hogweed	T3216 <i>Heracleum mantegazzianum</i>	DA YE NIU FANG FENG
Giant Sequoia	T5917 <i>Sequoia gigantea</i>	JU SHAN
Giant Snowdrop	T2821 <i>Galanthus elweldii</i>	DA XUE HUA LIAN
Giant St. John's wort	T3340 <i>Hypericum ascyron</i>	HUANG HAI TANG
Giant Typhonium	T6588 <i>Typhonium giganteum</i>	YU BAI FU
Giantreed Rhizome	T0722 <i>Arundo donax</i>	LU ZHU GEN
Gibraltar Thorowax*	T1063 <i>Bupleurum gibraltarium</i>	ZHI BU LUO TUO CAI HU
Gigantic Angelica	T0483 <i>Angelica gigas</i>	CHAO XIAN DANG GUI
Gigantic Corydalis*	T1716 <i>Corydalis gigantea</i>	JU ZI JIN
Gililand Aloe*	T0339 <i>Aloe gililandii</i>	JI SHI LU HUI
Ginkgo Bark	T2963 <i>Ginkgo biloba</i>	BAI GUO SHU PI
Ginkgo Leaf	T2964 <i>Ginkgo biloba</i>	BAI GUO YE
Ginkgo Nut	T2961 <i>Ginkgo biloba</i>	BAI GUO
Ginkgo Root	T2962 <i>Ginkgo biloba</i>	BAI GUO GEN
Ginseng	T4599 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]	REN SHEN
Ginseng Buds	T4600 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]	REN SHEN HUA LEI
Ginseng Leaf	T4602 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]	REN SHEN YE
Ginseng Reed	T4601 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]	REN SHEN LU
Girald Acanthopanax Root-bark	T0036 <i>Acanthopanax giraldii</i> [Syn. <i>Acanthopanax giraldii</i> var. <i>inermis</i> ; <i>Eleutherococcus giraldii</i>]	HONG MAO WU JIA PI
Girald Larkspur	T2076 <i>Delphinium giraldii</i>	QIN LING CUI QUE HUA
Githago Agrostemma	T0252 <i>Agrostemma githago</i>	MAI XIAN WENG
Glabrate Angelica*	T0484 <i>Angelica glabra</i>	GUANG HUA DANG GUI
Glabrate Begonia*	T0889 <i>Begonia glabra</i>	GUANG JIE QIU HAI TANG
Glabrous Acanthospermum*	T0046 <i>Acanthospermum glabratum</i>	GUANG CI BAO JU
Glabrous Cassytha*	T1252 <i>Cassytha glabella</i>	WU MAO WU GEN TENG
Glabrous Combretum*	T1631 <i>Combretum imberbe</i>	WU MAO FENG CHE ZI
Glabrous Custardapple	T0506 <i>Annona glabra</i>	YUAN HUA FAN LI ZHI
Glabrous Greenbrier	T5977 <i>Smilax glabra</i>	TU FU LING
Glabrous Holly*	T3397 <i>Ilex pubescens</i> var. <i>glaber</i>	TU MAO DONG QING
Glabrous Litsea*	T3888 <i>Litsea glutinosa</i> var. <i>glabrata</i>	WU MAO CHAN GAO SHU
Glabrous Sarcandra	T5730 <i>Sarcandra glabra</i> [Syn. <i>Chloranthus glaber</i>]	JIU JIE CHA
Glabrous Wormwood*	T0677 <i>Artemisia glabella</i>	WU MAO HAO
Glabrousleaf Chinese Corktree	T4792 <i>Phellodendron chinense</i> var. <i>glabriusculum</i>	TU YE HUANG PI SHU
Glabrousleaf Erycibe	T2450 <i>Erycibe schmidtii</i>	GUANG YE DING GONG TENG
Glabrousleaf Pondweed	T5175 <i>Potamogeton lucens</i>	GUANG YE YAN ZI CAI
Glabrousleaf Stephania*	T6127 <i>Stephania glabra</i>	GUANG YE DI BU RONG
Glabrousleaf Uvaria	T6659 <i>Uvaria boniana</i>	GUANG YE ZI YU PAN
Glabroussepal Crotalaria	T1837 <i>Crotalaria usaramoensis</i>	GUANG E ZHU SHI DOU
Glandtooth Ardisia*	T0593 <i>Ardisia cornudentata</i>	XIAN CHI ZI JIN NIU
Glandular Fennelflower	T4432 <i>Nigella glandulifera</i>	XIAN MAO HEI ZHONG CAO
Glandularflower Rabdosia	T5388 <i>Rabdosia adenantha</i>	XIAN HUA XIANG CHA CAI
Glandularnerve Pepper	T4936 <i>Piper bavinum</i>	XIAN MAI JU
Glandularstalk St. Paulswort	T5952 <i>Siegesbeckia orientalis</i> var. <i>pubescens</i> [Syn. <i>Siegesbeckia pubescens</i>]	XIAN GENG XI XIAN
Glandulous Eupatorium*	T2560 <i>Eupatorium glandulosum</i>	XIAN ZE LAN
Glaucous Fissistigma	T2734 <i>Fissistigma glaucescens</i> [Syn. <i>Melodorum glaucescens</i>]	BAI YE GUA FU MU
Glaucous Motherwort	T3751 <i>Leonurus glaucescens</i>	HUI BAI YI MU CAO
Glaucous Diploclisia	T2233 <i>Diploclisia glaucescens</i>	CANG BAI CHENG GOU FENG
Glaucous Bedstraw*	T2831 <i>Galium glaucum</i>	FEN LU ZHU YANG YANG
Glaucous Custardapple*	T0507 <i>Annona glauca</i>	ROU MAO FAN LI ZHI
Glaucous Meadowrue*	T6390 <i>Thalictrum glaucum</i>	LV TANG SONG CAO

Glaucousback Honeysuckle	T3911 <i>Lonicera hypoglauca</i>	XIAN YE REN DONG
Glaucousback Threewingnut	T6540 <i>Tripterygium hypoglaucum</i>	KUN MING SHAN HAI TANG
Globe Artichoke	T1966 <i>Cynara scolymus</i>	CAI JI
Globe Candytuft	T3386 <i>Iberis umbellata</i>	SAN XING QU QU HUA
Globe Cordia*	T1677 <i>Cordia globosa</i>	QIU ZHUANG PO BU MU
Globeamaranth	T3040 <i>Gomphrena globosa</i>	QIAN RI HONG
Globefish	T2805 <i>Fugu ocellatus</i>	HE TUN
Globose Condorvine	T4116 <i>Marsdenia globifera</i>	QIU HUA NIU NAI CAI
Globular Pepper	T4956 <i>Piper mullesua</i>	DUAN JU
Glomerate Blumea*	T0958 <i>Blumea glomerata</i>	TUAN JI AI NA XIANG
Glomerule Sweetleaf	T6253 <i>Symplocos glomerata</i>	TUAN HUA SHAN FAN
Glory Bush	T6455 <i>Tibouchina semidecandra</i>	
Glory-of-the-snow	T1368 <i>Chionodoxa luciliae</i>	XUE GUANG HUA
Glossy Buckthorn	T5460 <i>Rhamnus frangula</i> [Syn. <i>Frangula alnus</i>]	OU SHU LI
Glossy Privet Fruit	T3828 <i>Ligustrum lucidum</i>	NV ZHEN ZI
Gluey Litse	T3887 <i>Litsea glutinosa</i>	CHAN GAO MU JIANG ZI
Glutinous Bluebeard	T1222 <i>Caryopteris glutinosa</i>	NIAN YE YOU ⁽²⁾
Gmelin Sealavender Herb	T3842 <i>Limonium gmelinii</i>	BU XUE CAO
Goat Hide	T1181 <i>Capra hircus; Ovis aries</i>	YANG PI
Goat Milk	T1182 <i>Capra hircus; Ovis aries</i>	YANG RU
Goat Pancreas	T1183 <i>Capra hircus; Ovis aries</i>	YANG YI
Goat Willow	T5652 <i>Salix caprea</i>	HUANG HUA ER LIU
Goering Lemongrass	T1943 <i>Cymbopogon goeringii</i>	YE XIANG MAO
Goldback Fern	T4988 <i>Pityrogramma triangularis</i>	SAN JIAO FEN YE JUE
Golden Adonis	T0186 <i>Adonis chrysocyatha</i>	JIN HUANG CE JIN ZHAN HUA
Golden Buckwheat Root	T2657 <i>Fagopyrum cymosum</i> [Syn. <i>Polygonum cymosum</i>]	TIAN QIAO MAI GEN
Golden Corydalis	T1707 <i>Corydalis aurea</i>	JIN HUANG JIN
Golden Lycoris	T3983 <i>Lycoris aurea</i>	DA YI ZHI JIAN
Goldenchain Laburnum	T3648 <i>Laburnum anagyroides</i>	DU DOU
Goldencoma Shield Fern	T2280 <i>Dryopteris chrysocoma</i>	HUANG MAO LIN MAO JUE
Goldenflower Dendrobium	T2098 <i>Dendrobium chrysanthum</i>	SHU HUA SHI HU
Golden-seal	T3309 <i>Hydrastis canadensis</i>	BAI MAO GEN ⁽⁴⁾
Goldenshower Senna Fruit	T1232 <i>Cassia fistula</i>	PO LUO MEN ZAO JIA
Goldenthread Cordyceps	T1682 <i>Cordyceps ophioglossoides</i>	DA TUAN NANG CHONG CAO
Gold-enthread Meadowrue	T6389 <i>Thalictrum glandulosissimum</i>	JIN SI MA WEI LIAN
Golden-wing Milkvetch*	T0791 <i>Astragalus chrysopterus</i>	JIN YI HUANG QI
Goldenyellow Jerusalem sage*	T4806 <i>Phlomis aurea</i>	JIN HUANG CAO SU
Goldenyellow Thelephora*	T6420 <i>Thelephora aurantiotincta</i>	JIN HUANG GE JUN
Goldenyellow Thorowax	T1056 <i>Bupleurum aureum</i>	JIN HUANG CHAI HU
Goldflower Actinidia	T0159 <i>Actinidia chrysantha</i>	JIN HUA MI HOU TAO
Goldhair Hedyotis	T3125 <i>Hedyotis chrysotricha</i> [Syn. <i>Oldenlandia chrysotricha</i>]	JIN MAO ER CAO
Goldmat Rhododendron	T5505 <i>Rhododendron chrysanthum</i>	NIU PI CHA
Goldon-belt*	T3776 <i>Lethariella zahlbruckneri</i>	JIN YAO DAI
Goldregen	T1988 <i>Cytisus laburnum</i>	LIAN HUA JIN QUE ER
Goldsaxifrage Herb	T1403 <i>Chrysosplenium grayanum</i>	JIN QIAN KU YE CAO
Gold-wire Brush*	T3775 <i>Lethariella cladonioides</i>	JIN SI SHUA
Gongbo Monkshood	T0107 <i>Aconitum kongboense</i>	GONG BU WU TOU
Goose Fat	T0516 <i>Anser cygnoides domestica</i>	BAI E GAO
Goose Tail-meat	T0517 <i>Anser cygnoides domestica</i>	E CUI
Goose-bowel Vegetable*	T2359 <i>Endarachne binghamiae</i>	E CHANG CAI
Gordon Euryale Root	T2632 <i>Euryale ferox</i>	QIAN SHI GEN
Gorgonian <i>Gorgoniae suberogorgia</i>	T3053 <i>Gorgoniae suberogorgia</i>	LIU SHAN HU
Gorgonian <i>Junceella fragilis</i>	T3574 <i>Junceella fragilis</i>	CUI DENG XIN LIU SHAN HU

Gorgonian <i>Junceella gemmacea</i>	T3575 <i>Junceella gemmacea</i>	LEI DENG XIN LIU SHAN HU
Gorgonian <i>Junceella juncea</i>	T3576 <i>Junceella juncea</i>	DENG XIN LIU SHAN HU
Gorgonian <i>Muricella sinensis</i>	T4315 <i>Muricella sinensis</i>	ZHONG HUA XIAO JIAN LIU SHAN HU
Gortschakov <i>Corydalis</i> *	T1717 <i>Corydalis gortschakovii</i>	GE CAI KE SHI ZI JIN
Govan <i>Corydalis</i>	T1718 <i>Corydalis govaniana</i>	KU MANG HUANG JIN
Graceful Jessamine	T2897 <i>Gelsemium elegans</i>	GOU WEN
Gracile <i>Eupatorium</i> *	T2561 <i>Eupatorium gracile</i>	XI ZE LAN
Gram Chickpea	T1412 <i>Cicer arietinum</i>	HUI HUI DOU
Grand <i>Aglaiia</i> *	T0237 <i>Aglaiia grandis</i>	JU DA MI ZI LAN
Grand <i>Crinum</i>	T1794 <i>Crinum asiaticum</i>	YA ZHOU WEN SHU LAN
Grand <i>Globethistle</i> *	T2315 <i>Echinops giganteus</i>	JU DA LAN CI TOU
Grand <i>Litsea</i> *	T3890 <i>Litsea grandis</i>	DA MU JIANG ZI
Grapefruit	T1503 <i>Citrus paradisi</i>	PU TAO YOU
Grapeleaf <i>Hibiscus</i> *	T3249 <i>Hibiscus vitifolius</i>	PU TAO YE MU JIN
Grass Vetchling	T3706 <i>Lathyrus nissolia</i>	HE CAO XIANG WAN DOU
Grasshopper	T5559 <i>Romalea microptera</i>	HUANG CHONG
Grassland <i>Euphorbia</i> *	T2620 <i>Euphorbia stepposa</i>	CAO YUAN DA JI
Grassleaf <i>Saussurea</i>	T5754 <i>Saussurea graminea</i>	HE YE FENG MAO JU
Grassleaf Sweetflag	T0144 <i>Acorus gramineus</i>	JIN QIAN PU
Grassleaf Sweetflag Leaf	T0145 <i>Acorus gramineus</i>	JIN QIAN PU YE
Grassleaved Sweetflag	T0146 <i>Acorus tatarinowii</i>	SHI CHANG PU
Gratiola	T3061 <i>Gratiola officinalis</i>	YAO SHUI BA JIAO
Graywhite Wormwood*	T0669 <i>Artemisia cana</i>	QING AI
Great Burdock Fruit	T0586 <i>Arctium lappa</i>	NIU BANG ZI
Great Burdock Leaf*	T0585 <i>Arctium lappa</i>	NIU BANG YE
Great Burdock Root	T0584 <i>Arctium lappa</i>	NIU BANG GEN
Great Maple	T0053 <i>Acer pseudoplatanus</i>	OU YA QI
Great Willowherb (Firewood)	T1352 <i>Chamaenerion angustifolium</i> [Syn. <i>Epilobium angustifolium</i>]	HONG KUAI ZI
Greater Bird's-foot-trefoil	T3930 <i>Lotus pedunculatus</i>	HUA XU GENG BAI MAI GEN
Greater Celandine	T1357 <i>Chelidonium majus</i>	BAI QU CAI
Greater Periwinkle	T6760 <i>Vinca herbacea</i> [Syn. <i>Vinca major</i>]	DA CHANG CHUN HUA
Greater Water-parsnip	T5969 <i>Sium latifolium</i>	OU ZE QIN
Grecian Foxglove	T2175 <i>Digitalis lanata</i>	MAO HUA MAO DI HUANG
Grecian Laurel Fruit	T3726 <i>Laurus nobilis</i>	YUE GUI ZI
Grecian Laurel Leaf	T3725 <i>Laurus nobilis</i>	YUE GUI YE
Grecian Silkvine	T4727 <i>Periploca graeca</i>	XI LA GANG LIU
Greek Silk-hair Yarrow*	T0063 <i>Achillea holosericea</i>	XI LA SI MAO SHI
Greek Yarrow	T0058 <i>Achillea ageratifolia</i>	XI LA SHI CAO
Green <i>Alectoria</i> Filament	T0298 <i>Alectoria vivens</i>	JIN SI DAI
Green Anemone	T0526 <i>Anthopleura stell</i>	LV HAI KUI
Green Falsehellebore	T6700 <i>Veratrum viride</i>	LV LI LU
Green Hellebore*	T3189 <i>Helleborus viridis</i>	LV TI GEN CAO
Green Poplar	T5150 <i>Populus cathayana</i>	QING YANG
Greenish Lily	T3832 <i>Lilium brownii</i> var. <i>viridulum</i> [Syn. <i>Lilium brownii</i> var. <i>colchesteri</i>]	BAI HE
Greenleaf Piptanthus, Evergreen Laburnum	T4976 <i>Piptanthus nepalensis</i>	HUANG HUA MU
Greensnake vine	T4725 <i>Periploca calophylla</i>	QING SHE TENG
Greenspike <i>Erythrophleum</i> *	T2483 <i>Erythrophleum chlorostachyum</i>	LU SUI GE MU
Greenstem Forsythia	T2757 <i>Forsythia viridissima</i>	JIN ZHONG HUA
Greenyellow <i>Stephania</i>	T6137 <i>Stephania viridiflavens</i>	HUANG YE DI BU RONG
Gregg Sage*	T5674 <i>Salvia greggii</i>	GE SHI SHU WEI CAO
Grey <i>Arcyria</i> *	T0589 <i>Arcyria cinerea</i>	HUI JIN SE TUAN WANG JUN

Grey Basil	T4472 <i>Ocimum canum</i>	ZHANG NAO LUO LE
Grey Coralbean*	T2466 <i>Erythrina glauca</i>	HUI CI TONG
Grey Greenbrier*	T5973 <i>Smilax aristolochiaefolia</i>	HUI BA QIA
Greyblue Pericampylus	T4710 <i>Pericampylus glaucus</i>	XI YUAN TENG
Greyblue Spicebush	T3850 <i>Lindera glauca</i>	SHAN HU JIAO
Greyblue Spicebush Leaf	T3851 <i>Lindera glauca</i>	SHAN HU JIAO YE
Greyhair Asiabell	T1596 <i>Codonopsis canescens</i>	HUI MAO DANG SHEN
Greyish Gambirplant*	T6611 <i>Uncaria canescens</i>	QIAN HUI GOU TENG
Greyish Nannoglottis*	T4372 <i>Nannoglottis ravida</i>	QIAN HUI MAO GUAN JU
Greyish-green Corydalis	T1705 <i>Corydalis adunca</i>	HUI LV YAN HU SUO
Greyleaf Actinidia	T0162 <i>Actinidia glaucophylla</i>	HUA NAN MI HOU TAO
Greyleaf Maesa	T4027 <i>Maesa chisia</i>	HUI YE DU JING SHAN
Greywhite Nightshade*	T5999 <i>Solanum incanum</i>	HUI BAI QIE
Greywhite Seseli*	T5931 <i>Seseli incanum</i>	HUI BAI XIE HAO
Griffith Garcinia*	T2856 <i>Garcinia griffithii</i>	GE LI FEI SI TENG HUANG
Griffith Mahonia	T4065 <i>Mahonia griffithii</i>	GE LI FEI SI SHI DA GONG LAO
Grossnerve Pepper*	T4943 <i>Piper crassinervium</i>	CU YE MAI HU JIAO
Grosvenor Siraitia	T5967 <i>Siraitia grosvenorii</i> [Syn. <i>Momordica grosvenorii</i>]	LUO HAN GUO
Groundfig Spurge	T2581 <i>Euphorbia chamaesyce</i>	MAO GUO DI JIN
Guamachil Apea-earring	T4985 <i>Pithecolobium dulce</i>	NIU TI DOU
Guanabana	T0509 <i>Annona muricata</i>	CI GUO FAN LI ZHI
Guanguangtree	T6556 <i>Tsoongiodendron odorum</i>	GUAN GUANG MU
Guangxi Hogfennel	T4758 <i>Peucedanum guangxiense</i>	GUANG XI QIAN HU
Guangxi Lycoris	T3985 <i>Lycoris guangxiensis</i>	GUANG XI SHI SUAN
Guangxi Many-flowered May-apple*	T2300 <i>Dysosma guangxiensis</i>	GUANG XI BA JIAO LIAN
Guangxi Mayten*	T4132 <i>Maytenus guangxiensis</i>	GUANG XI MEI DENG MU
Guara, Mestizo, or Guacharaco (in Colombia)	T1892 <i>Cupania latifolia</i>	
Guarana	T4677 <i>Paullinia cupana</i>	BA XI XIANG WU HUAN ZI
Guava Bark	T5266 <i>Psidium guajava</i>	FAN SHI LIU PI
Guava Leaf	T5267 <i>Psidium guajava</i>	FAN SHI LIU YE
Guava Seed	T5268 <i>Psidium guajava</i>	FAN SHI LIU ZI
Guava Unripe Fruit	T5265 <i>Psidium guajava</i>	FAN SHI LIU GAN
Guinea Bitterleaf*	T6718 <i>Vernonia guineensis</i>	JI NEI YA BAN JIU JU
Guinea Yam	T2207 <i>Dioscorea rotundata</i> [Syn. <i>Dioscorea cayenensis</i>]	YUAN SHU YU
Guizhou Arachniodes	T0564 <i>Arachniodes nipponica</i>	
Guizhou Evodia	T2645 <i>Evodia rutaecarpa</i> var. <i>bodinieri</i>	BO SHI WU ZHU YU
Guizhou Swertia*	T6224 <i>Swertia kouitchensis</i>	GUI ZHOU ZHANG YA CAI
Gulfweed <i>Sargassum micracanthum</i>	T5738 <i>Sargassum micracanthum</i>	
Gulin Goldthread*	T1666 <i>Coptis gulinensis</i>	GU LIN YE LIAN
Gulin Hemsleya	T3210 <i>Hemsleya penxianensis</i> var. <i>gulinensis</i>	GU LIN XUE DAN
Gum-arabic Tree	T0028 <i>Acacia nilotica</i>	A LA BO JIAO JIN HE HUAN
Gummy Atractylodes*	T0820 <i>Atractylodes gummifera</i>	OU CANG ZHU
Gummy Gardenia*	T2881 <i>Gardenia gummifera</i>	JIAO ZHI ZI
Gummy St. Paulswort*	T5949 <i>Siegesbeckia gummifer</i>	JIAO XI XIAN
Gynura	T3088 <i>Gynura segetum</i> [Syn. <i>Gynura japonica</i>]	SAN QI CAO
Gypsophila	T3089 <i>Gypsophila acutifolia</i>	HUANG JIE GU DAN
H.Collett's Rhododendron	T5507 <i>Rhododendron collettianum</i>	A FU HAN DU JUAN HUA
Hada Mosla*	T4540 <i>Orthodon hadai</i>	HA DA SHI JI NING
Haichow Elsholtzia	T2343 <i>Elsholtzia splendens</i>	XIANG RU
Hainan Amonum	T0417 <i>Amomum longiligulare</i>	HAI NAN SHA REN
Hainan Devilpepper	T5426 <i>Rauvolfia verticillata</i> var. <i>hainanensis</i>	HAI NAN LUO FU MU
Hainan Goniotalamus	T3048 <i>Goniotalamus howii</i>	HAI NAN GE NA XIANG

Hainan Jointfir	T3030 <i>Gnetum hainanense</i>	HAI NAN MAI MA TENG
Hainan Pencilwood	T2309 <i>Dysoxylum hainanense</i>	HAI NAN JIAN MU
Hainan Plumyew	T1319 <i>Cephalotaxus hainanensis</i> [Syn. <i>Cephalotaxus mannii</i>]	HAI NAN CU FEI
Hainan Sarcococca	T5733 <i>Sarcococca vagans</i>	HAI NAN YE SHAN HUA
Hainan Tinospora	T6466 <i>Tinospora hainanensis</i>	HAI NAN QING NIU DAN
Hair Larkspur	T2079 <i>Delphinium kamaonense</i> var. <i>glabrescens</i>	ZHAN MAO CUI QUE HUA
Hair Vegetable*	T4438 <i>Nostoc flagelliforme</i>	FA CAI
Hairfruit Rhododendron*	T5522 <i>Rhododendron seniavinii</i>	MAO GUO DU JUAN
Hairless Chinese Hawthorn	T1779 <i>Crataegus pinnatifida</i> var. <i>psilosa</i>	WU MAO SHAN ZHA
Hairnode Valeriana*	T6674 <i>Valeriana alternifolia</i> var. <i>stolonifera</i>	MAO JIE XIE CAO
Hairspike Pepper*	T4971 <i>Piper trichostachyon</i>	MAO SUI HU JIAO
Hairstalk Denrdobium	T2097 <i>Dendrobium capillipes</i>	DUAN BANG SHI HU
Hairstalk Narrowleaf Rabdosia*	T3481 <i>Isodon angustifolius</i> var. <i>glabrescens</i>	MAO GENG XIA YE XIANG CHA CAI
Hairstalk St. Paulswort	T5951 <i>Siegesbeckia orientalis</i> var. <i>glabrescens</i> [Syn. <i>Siegesbeckia glabrescens</i>]	MAO GENG XI XIAN
Hairstyle Poisonnut	T6183 <i>Strychnos nitida</i>	MAO ZHU MA QIAN
Hairy Antler	T1337 <i>Cervus nippon</i> ; <i>Cervus elaphus</i>	LU RONG
Hairy Bayberry	T4343 <i>Myrica esculent</i>	MAO YANG MEI
Hairy Champion	T3948 <i>Lychnis coronaria</i>	MAO JIAN QIU LUO
Hairy Clovershrub	T1163 <i>Campylotropis hirtella</i>	MAO HANG ZI SHAO
Hairy Datura Flower	T2037 <i>Datura innoxia</i>	MAO MAN TUO LUO HUA
Hairy Datura Leaf	T2038 <i>Datura innoxia</i>	MAO MAN TUO LUO YE
Hairy Datura Root	T2036 <i>Datura innoxia</i>	MAO MAN TUO LUO GEN
Hairy Datura Seed	T2039 <i>Datura innoxia</i>	MAO MAN TUO LUO ZI
Hairy Heartseed*	T1198 <i>Cardiospermum hirsutum</i>	MAO DAO DI LING
Hairy Heliotrope*	T3173 <i>Heliotropium hirsutum</i>	YING MAO TIAN JIE CAI
Hairy Hellebore*	T3185 <i>Helleborus orientalis</i> var. <i>hirsutus</i>	YING MAO TI GEN CAO
Hairy Micromelum*	T4222 <i>Micromelum hirsutum</i>	YIN MAO XIAO YUN MU
Hairy Pepper	T4962 <i>Piper puberulum</i>	MAO JU
Hairy Peppertree*	T5788 <i>Schinus molle</i>	ROU MAO XIAO RU XIANG
Hairy Rhynchotechum	T5543 <i>Rhynchotechum vestitum</i>	MAO XIAN ZHU JU TAI
Hairy St. John's wort	T3355 <i>Hypericum hirsutum</i>	YING MAO JIN SI TAO
Hairy Willowweed	T2387 <i>Epilobium hirsutum</i>	SHUI JIE GU DAN
Hairy Wormwood	T0705 <i>Artemisia vestita</i>	MAO LIAN HAO
Hairydtalk Loosestrife	T3997 <i>Lysimachia capillipes</i>	XI GENG XIANG CAO
Hairyflower Actinidia	T0161 <i>Actinidia eriantha</i>	MAO HUA MI HOU TAO
Hairyflower Photinia*	T4826 <i>Photinia lactiflora</i>	MAO HUA SHI NAN
Hairyfruit Heliotrope*	T3175 <i>Heliotropium lasiocarpum</i>	MAO GUO TIAN JIE CAI
Hairyfruit Michelia	T4214 <i>Michelia spaerantha</i>	MAO GUO HAN XIAO
Hairyfruit Milkweed*	T0737 <i>Asclepias eriocarpa</i>	MAO GUO MA LI JIN
Hairyfruit Rabdosia*	T3530 <i>Isodon trichocarpa</i>	MAO GUO XIANG CHA CAI
Hairyfruit Ventilago	T6688 <i>Ventilago calyculata</i>	MAO GUO YI HE GUO
Hairyleaf Aralia	T0570 <i>Aralia dasyphylla</i>	TOU XU CONG MU
Hairyleaf Handelia	T3097 <i>Handelia trichophylla</i>	TIAN SHAN SHI
Hairyleaf South Ailanthus	T0258 <i>Ailanthus malabarica</i>	MA LA BA CHU
Hairylobed Butterbur	T4745 <i>Petasites tricholobus</i>	MAO LIE FENG DOU CAI
Hairyrod Fishvane	T2119 <i>Derris eriocarpa</i>	MAO GUO YU TENG
Hairyrod Glochidion*	T2988 <i>Glochidion eriocarpum</i>	MAO GUO SUAN PAN ZI
Hairysepal Rabdosia	T5391 <i>Rabdosia eriocalyx</i>	MAO E XIANG CHA CAI
Hairysepal Raspberry	T5590 <i>Rubus chroosepalus</i>	MAO E MEI
Hairystalk Tinospora	T6463 <i>Tinospora capillipes</i>	JIN GUO LAN
Hairyvein Agrimonia	T0248 <i>Agrimonia pilosa</i>	LONG YA CAO
Halberd-like Eupatorium*	T2577 <i>Eupatorium subhastatum</i>	JIN JI ZE LAN

Hall Podocarpus*	T5040 <i>Podocarpus hallii</i>	HA SHI LUO HAN SONG
Hamilton Tephrosia*	T6335 <i>Tephrosia hamiltonii</i>	HAN MI ER DUN HUI YE
Hanbury Garcinia*	T2857 <i>Garcinia hanburyi</i>	TENG HUANG SHU
Hance Brandisia	T1003 <i>Brandisia hancei</i>	LAI JIANG TENG
Hance Pepper	T4948 <i>Piper hancei</i>	SHAN JU
Hance Snakegrape	T0424 <i>Ampelopsis brevipedunculata</i> var. <i>hancei</i>	GUANG YE SHE PU TAO
Hancock Swallowwort	T1955 <i>Cynanchum hancockianum</i>	HUA BEI BAI QIAN
Hanson Lily	T3834 <i>Lilium hansonii</i>	HUANG BAI HE
Haoryanther Paoshan Monkshood	T0117 <i>Aconitum nagarum</i> var. <i>lasiandrum</i>	XUAN WEI WU TOU
Haplophyllum*	T3100 <i>Haplophyllum acutifolium</i>	JIAN YE YUN XIANG CAO
Hard Bluegrass	T5033 <i>Poa sphondylodes</i>	LONG XU CAO
Hardhylum Coralbean*	T2468 <i>Erythrina lithosperma</i>	YING HE CI TONG
Hardwick Valeriana	T6676 <i>Valeriana hardwickii</i>	CHANG XU XIE CAO
Harebell	T1157 <i>Campanula rotundifolia</i>	YUAN YE FENG LING CAO
Harland Box	T1088 <i>Buxus harlandii</i>	XI YE HUANG YANG
Harland Fig	T2719 <i>Ficus fistulosa</i> [Syn. <i>Ficus harlandii</i>]	SHUI TONG MU
Harlequin Glorybower Leaf	T1562 <i>Clerodendron trichotomum</i>	CHOU WU TONG
Harlequin Glorybower Root	T1563 <i>Clerodendron trichotomum</i>	CHOU WU TONG GEN
Hassler Lobelia*	T3899 <i>Lobelia hassleri</i>	HA SHI SHAN GENG CAI
Hastate Dock*	T5609 <i>Rumex hastatus</i>	JI YE SUAN MO
Hastate Verbena	T6707 <i>Verbena hastata</i>	JI YE MA BIAN CAO
Hastateleaf Sage	T5664 <i>Salvia bulleyana</i>	JI YE SHU WEI CAO
Hawaiian Elephantfoot	T2333 <i>Elephantopus mollis</i>	ROU MAO DI DAN CAO
Hawkweed-like Saussurea	T5770 <i>Saussurea superba</i> [Syn. <i>Saussurea hieracioides</i>]	CHANG MAO FENG MAO JU
Hawthorn	T1774 <i>Crataegus oxyacantha</i>	YING GUO SHAN ZHA
Hayata Ophiorrhiza	T4509 <i>Ophiorrhiza hayatana</i>	XIA YE SHE GEN CAO
Hazel Sterculia	T6138 <i>Sterculia foetida</i>	JIA MA SHU
Headflower Gentian	T2908 <i>Gentiana cephalantha</i>	TOU HUA LONG DAN
Heartleaf Houttuynia	T3284 <i>Houttuynia cordata</i>	YU XING CAO
Heartleaf Tubergourd	T6435 <i>Thladiantha cordifolia</i>	XIN YE CHI BO
Heart-leaved Alexanders	T6913 <i>Zizia aptera</i>	JI JI QIN
Heartshape Mikania	T4228 <i>Mikania cordata</i>	JIA ZE LAN
Heath Groundsel	T5913 <i>Senecio sylvaticus</i>	YE SHENG QIAN LI GUANG
Hebei Poplar	T5153 <i>Populus hopeiensis</i>	HE BEI YANG
Hedge Acacia	T3778 <i>Leucaena glauca</i> [Syn. <i>Leucaena leucocephala</i>]	YIN HE HUAN
Hedge Bedstraw	T2832 <i>Galium mollugo</i>	SU ZHU YANG YANG
Hedge Mustard	T5968 <i>Sisymbrium officinale</i>	ZUAN GUO SUAN JIE
Hedge Sageretia	T5645 <i>Sageretia theezans</i> [Syn. <i>Sageretia thea</i>]	QUE MEI TENG
Hedgehog Brain	T2427 <i>Erinaceus europaeus</i> ; <i>Hemiechinus dauuricus</i> ; <i>Hemiechinus auritus</i>	WEI NAO
Hedgehog Heart and Liver	T2428 <i>Erinaceus europaeus</i> ; <i>Hemiechinus dauuricus</i> ; <i>Hemiechinus auritus</i>	WEI XIN GAN
Heliotrope	T3171 <i>Heliotropium europaeum</i>	OU ZHOU TIAN JIE CAI
Hemhem (in Jordan)	T0448 <i>Anchusa strigosa</i>	CU MAO NIU SHE CAO
Hemihull Eucalyptus*	T2512 <i>Eucalyptus hemiphloia</i>	BAN PI AN
Hemlock Waterdropwort	T4480 <i>Oenanthe crocata</i>	ZANG HONG HUA SE SHUI QIN
Hemp Fimble Flower*	T1175 <i>Cannabis sativa</i>	MA HUA
Hemp Fimble Leaf	T1176 <i>Cannabis sativa</i>	MA YE
Hemp Fimble Root	T1174 <i>Cannabis sativa</i>	MA GEN
Hemp Fimble Seed	T1173 <i>Cannabis sativa</i>	HUO MA REN
Hemp-agrimony	T2554 <i>Eupatorium cannabinum</i>	DA MA YE ZE LAN
Hempleaf Groundsel	T5883 <i>Senecio cannabifolius</i>	MA YE QIAN LI GUANG
Hempleaf Nettle	T6651 <i>Urtica cannabina</i>	QIAN MA

Hemsley Cowparsnip	T3213 <i>Heracleum hemsleyanum</i>	NIU WEI DU HUO
Hemsley Melodinus	T4178 <i>Melodinus hemsleyanus</i>	CHUAN SHAN CHENG
Hemsley Monkshood	T0101 <i>Aconitum hemsleyanum</i>	GUA YE WU TOU
Hen's Egg Shell	T2841 <i>Gallus gallus domesticus</i>	JI ZI KE
Hen's Egg Yolk	T2840 <i>Gallus gallus domesticus</i>	JI ZI HUANG
Hen's Egg-albumen	T2839 <i>Gallus gallus domesticus</i>	JI ZI BAI
Henbit Deadnettle	T3680 <i>Lamium amplexicaule</i>	BAO GAI CAO
Henna Leaf	T3732 <i>Lawsonia inermis</i>	ZHI JIA HUA YE
Henry Actinidia	T0157 <i>Actinidia callosa</i> var. <i>henryi</i>	JING LI MI HOU TAO
Henry Anisetree	T3401 <i>Illicium henryi</i>	HONG HUI XIANG
Henry Magnoliavine	T5793 <i>Schisandra henryi</i>	YI GENG WU WEI ZI
Henry Rabbosia	T3493 <i>Isodon henryi</i>	E XI XIANG CHA CAI
Henry St.John'swort	T3354 <i>Hypericum henryi</i>	HENG LI DI ER CAO
Henry Wampee	T1533 <i>Clausena dentata</i>	YE HUANG PI
Henry's Monachosorum	T4268 <i>Monachosorum henryi</i>	XI ZI JUE
Henry's Rose	T5566 <i>Rosa henryi</i>	RUAN TIAO QI QIANG WEI
Heptaleaf Wampee*	T1536 <i>Clausena heptaphylla</i>	QI YE HUANG PI
Herb Bennet	T2958 <i>Geum urbanum</i>	XIANG CAO SHUI YANG MEI
Herbaceous Pygmaepremna	T5341 <i>Pygmaepremna herbacea</i> [Syn. <i>Premna herbacea</i>]	QIAN JIE CAO
Hercules' Club	T6871 <i>Zanthoxylum clava-hercules</i>	MEI GUO CI JIAO
Hernandez Meadowrue*	T6391 <i>Thalictrum hernandezii</i>	HE SHI TANG SONG CAO
Hernandialeaf Stephania	T6128 <i>Stephania hernandifolia</i>	RU LAN
Heterofoot Lumbrinereis*	T3937 <i>Lumbriconeis heteropoda</i>	YI ZU SUO SHA CAN
Heteroleaf Markingnut*	T5873 <i>Semecarpus heterophylla</i>	YI YE ROU TUO GUO
Heteroleaf Mayten*	T4133 <i>Maytenus heterophylla</i>	YI YE MEI DENG MU
Heteroleaf Monkshood*	T0103 <i>Aconitum heterophyllum</i>	YI YE WU TOU
Heterophylla Falsestarwort	T5260 <i>Pseudostellaria heterophylla</i>	YI YE JIA FAN LV
Heterostemonous Biebersteinia	T0942 <i>Biebersteinia heterostemon</i>	XUN DAO NIU
Hexaseed Ouratea*	T4561 <i>Ouratea hexasperma</i>	LIU ZI SAI JIN LIAN MU
Heyne Ervatamia*	T2443 <i>Ervatamia hainanensis</i>	HAI NAN GOU YA HUA
High Ailanthus*	T0256 <i>Ailanthus excelsa</i>	GAO CHU
High Coffee*	T1609 <i>Coffea excelsa</i>	GAO KA FEI
High Concave-top Alga*	T3716 <i>Laurencia elata</i>	GAO AO DING ZAO
High Elephantfoot*	T2332 <i>Elephantopus elatus</i>	GAO DI DAN CAO
High Juniper*	T3587 <i>Juniperus excelsa</i>	GAO DA CI BAI
High Larkspur*	T2075 <i>Delphinium excelsum</i>	GAO DA CUI QUE HUA
High Ligusticum*	T3821 <i>Ligusticum elatum</i>	GAO DANG GUI
High Mallow	T4091 <i>Malva sylvestris</i>	OU JIN KUI
High Tephrosia*	T6334 <i>Tephrosia elata</i>	GAO HUI MAO DOU
Highest Chastetree Leaf*	T6783 <i>Vitex altissima</i>	ZUI GAO MU JING YE
Highland Meadowrue	T6376 <i>Thalictrum cultratum</i>	GAO YUAN TANG SONG CAO
Hildebrandt Tephrosia*	T6336 <i>Tephrosia hildebrandtii</i>	XI SHI HUI MAO DOU
Hill Flindersia*	T2739 <i>Flindersia collina</i>	SHAN QIU JU PAN MU
Hill Stemona*	T6109 <i>Stemona collinsae</i>	XIAO QIU BAI BU
Himalaya Rhodiola	T5495 <i>Rhodiola himalansis</i>	XI MA HONG JING TIAN
Himalayan Box	T1095 <i>Buxus wallichiana</i>	WA LI XI HUANG YANG
Himalayan Coralbean	T2459 <i>Erythrina arborescens</i>	QIAO MU CI TONG
Himalayan Desertcandle	T2414 <i>Eremurus himalaicus</i>	XI MA DU WEI CAO
Himalayan Inula	T3438 <i>Inula royleana</i>	XI MA XUAN FU HUA
Himalayan Iris*	T3463 <i>Iris kumaonensis</i>	XI MA LA YA YUAN WEI
Himalayan Milkwort*	T5074 <i>Polygala emodi</i>	XI MA LA YA YUAN ZHI
Himalayan Peony	T4583 <i>Paeonia emodi</i>	DUO HUA SHAO YAO
Himalayan Teasel	T2234 <i>Dipsacus asperoides</i>	CHUAN XU DUAN

Himalayan Yew	T6317 <i>Taxus wallichiana</i>	XI MA LA YA HONG DOU SHAN
Hindu Datura Flower	T2044 <i>Datura metel</i>	YANG JIN HUA
Hindu Datura Leaf	T2042 <i>Datura metel</i>	MAN TUO LUO YE
Hindu Datura Root	T2041 <i>Datura metel</i>	MAN TUO LUO GEN
Hindu Datura Seed	T2043 <i>Datura metel</i>	MAN TUO LUO ZI
Hindu Lotus Large Rhizome	T4402 <i>Nelumbo nucifera</i>	OU
Hindu Lotus Leaf	T4398 <i>Nelumbo nucifera</i>	HE YE
Hindu Lotus Leaf-base	T4399 <i>Nelumbo nucifera</i>	HE YE DI
Hindu Lotus Petiole	T4397 <i>Nelumbo nucifera</i>	HE GENG
Hindu Lotus Plumule	T4401 <i>Nelumbo nucifera</i>	LIAN ZI XIN
Hindu Lotus Seed	T4400 <i>Nelumbo nucifera</i>	LIAN ZI
Hinoki False Cypress	T1349 <i>Chamaecyparis obtusa</i>	RI BEN BIAN BAI
Hippomane Cupflower*	T4429 <i>Nierembergia hippomanica</i>	MA ZHUANG SAI YA MA
Hirsute Bittersweet*	T1295 <i>Celastrus strigillosus</i>	CU MAO NAN SHE TENG
Hirsute Cissampelos*	T1453 <i>Cissampelos pareira</i> var. <i>hirsute</i>	YA HU NU
Hirsute Euchresta*	T2529 <i>Euchresta strigillosa</i>	FU MAO SHAN DOU GEN
Hirsute Gambirplant*	T6617 <i>Uncaria hirsuta</i>	MAO GOU TENG
Hirsute Licorice	T3011 <i>Glycyrrhiza aspera</i>	CU MAO GAN CAO
Hirsute Rasperry	T5592 <i>Rubus hirsutus</i>	CI BO
Hirsute Yam*	T2199 <i>Dioscorea hirsuta</i>	CU MAO SHU YU
Hirsutefruit White Quebracho*	T0763 <i>Aspidosperma dasycarpon</i>	CU MAO GUO BAI JIAN MU
HirsuteMillettia	T4239 <i>Millettia nitida</i> var. <i>hirsutissima</i>	FENG CHENG JI XUE TENG
Hisped Vineclethra	T1549 <i>Clematoclethra scanden</i>	GANG MAO TENG SHAN LIU
Hispid Arthraxon	T0707 <i>Arthraxon hispidus</i>	JIN CAO
Hispid Fig	T2727 <i>Ficus simplicissima</i>	CU YE RONG
Hispid Onosma*	T4498 <i>Onosma hispida</i>	CU YING MAO DIAN ZI CAO
Hispid Pepper*	T4949 <i>Piper hispidum</i>	YING MAO HU JIAO
Hispid Ragweed*	T0402 <i>Ambrosia hispida</i>	CU YING MAO TUN CAO
Hispid Sage	T5687 <i>Salvia prionitis</i>	HONG GEN CAO
Hispid Yam	T2200 <i>Dioscorea hispida</i>	BAI SHU LANG
Hispid 纒孔菌	T3425 <i>Inonotus hispidus</i>	CU YING MAO XIAN KONG JUN
Hispidus Girald Acanthopanax	T0037 <i>Acanthopanax giraldii</i> var. <i>hispidus</i>	MAO GENG HONG MAO WU JIA
Hoary Pepperwort	T3757 <i>Lepidium draba</i>	MAO DU XING CAI
Hog's Fennel	T4764 <i>Peucedanum officinale</i>	YAO YONG QIAN HU
Hogweed	T3224 <i>Heracleum sphondylium</i>	NIU FANG FENG
Holland Planted Saffron*	T1806 <i>Crocus antalyensis</i> cv	HE LAN ZHONG ZHI FAN HONG HUA
Hollowed Wampee	T1535 <i>Clausena excavata</i>	SHAN HUANG PI
Hollyhock Flower	T0382 <i>Althaea rosea</i>	SHU KUI HUA
Hollyhock-like Yam	T2189 <i>Dioscorea althaeoides</i>	SHU KUI YE SHU YU
Hollyleaf Acanthus	T0048 <i>Acanthus ilicifolius</i>	LAO SHU LE
Homoloba Lespedeza*	T3772 <i>Lespedeza homoloba</i>	TONG XING LIE PIAN HU ZHI ZI
Honan Meadowrue	T6392 <i>Thalictrum honanense</i>	HE NAN TANG SONG CAO
Hondapara	T2181 <i>Dillenia indica</i>	WU YA GUO
Honey	T0540 <i>Apis cerana</i>	FENG MI
Honeyed Acacia	T0026 <i>Acacia mellifera</i>	JU MI JIN HE HUAN
Honeylocust	T2982 <i>Gleditsia triacanthos</i>	SAN CI ZAO JIA
Hongkong Pencilwood	T2310 <i>Dysoxylum hongkongense</i>	XIANG GANG JIAN MU
Hooked Dendrobium	T2094 <i>Dendrobium aduncum</i>	GOU ZHUANG SHI HU
Hooked Pepper*	T4928 <i>Piper aduncum</i>	GOU ZHUANG HU JIAO
Hooked Spikemoss	T5870 <i>Selaginella uncinata</i>	CUI YUN CAO
Hookedhair Madder	T5582 <i>Rubia oncotricha</i>	GOU MAO QIAN CAO
Hookedhairypod Tickclover	T2130 <i>Desmodium gangeticum</i>	HONG MU JI CAO

Hookedspine Bittersweet	T1286 <i>Celastrus flagellaris</i>	CI NAN SHE TENG
Hooker Cucumber*	T1874 <i>Cucumis hookeri</i>	HU KE HUANG GUA
Hooker Onosma	T4499 <i>Onosma hookeri</i>	XI HUA DIAN ZI CAO
Hop-shaped Dodder	T1914 <i>Cuscuta lupuliformis</i>	PI JIU HUA TU SI ZI
Horse Bean	T6748 <i>Vicia faba</i> var. <i>equina</i>	MA CAN DOU
Horse Mint	T4185 <i>Mentha longifolia</i>	OU BO HE
Horsechestnut	T0202 <i>Aesculus hippocastanum</i>	OU ZHOU QI YE SHU
Horseradish	T0647 <i>Armoracia lapathifolia</i>	LA GEN
Horsetail Beefwood	T1258 <i>Casuarina equisetifolia</i>	MU MA HUANG
Horseweed Fleabane	T1657 <i>Conyza canadensis</i> [Syn. <i>Erigeron canadensis</i>]	QI ZHOU YI ZHI HAO <i>Conyza</i> <i>canadensis</i> <i>Erigeron canadensis</i>
Hosie Ormosia	T4530 <i>Ormosia hosiei</i>	HONG DOU
Hottentot Fig	T4200 <i>Mesembryanthemum edule</i>	SHI YONG RI ZHONG HUA
Howe	T1272 <i>Caulerpa sertularioides</i>	BANG YE JUE ZAO
Huapei Scabious	T5778 <i>Scabiosa tschiliensis</i>	HUA BEI LAN PEN HUA
Huaxi Fritillary	T2794 <i>Fritillaria siechuanica</i>	HUA XI BEI MU
Hubei Landpick	T5096 <i>Polygonatum zanlanscianense</i>	HU BEI HUANG JING
Hubei Liriope	T3875 <i>Liriope spicata</i> var. <i>prolifera</i>	HU BEI SHAN MAI DONG
Human Hair	T3278 <i>Homo sapiens</i>	XUE YU
Human Placenta	T3279 <i>Homo sapiens</i>	ZI HE CHE
Human Urine	T3276 <i>Homo sapiens</i>	REN NIAO
Human Urine Sediment	T3277 <i>Homo sapiens</i>	REN ZHONG BAI
Humifuse Euphorbia	T2591 <i>Euphorbia humifusa</i>	DI JIN CAO
Hupei Anemone	T0468 <i>Anemone hupehensis</i>	DA PO WAN HUA HUA
Hupei Fritillary	T2787 <i>Fritillaria hupehensis</i>	HU BEI BEI MU
Hupei Hawthorn	T1770 <i>Crataegus hupehensis</i>	HU BEI SHAN ZHA
Hupei Snakegourd	T6509 <i>Trichosanthes hupehensis</i>	HU BEI GUA LOU
Hyacinth Dolichos Seed	T2246 <i>Dolichos lablab</i>	BIAN DOU
Hyacinth Falselily	T4443 <i>Notholirion hyacinthinum</i> [Syn. <i>Notholirion bulbuliferum</i>]	JIA BAI HE
Hyberna Euphorbia	T2592 <i>Euphorbia hyberna</i>	HAI BO NA DA JI
Hybrid Bluebeard*	T1220 <i>Caryopteris clandonensis</i>	ZA JIAO YOU ⁽²⁾
Hybrid Clover*	T6520 <i>Trifolium hybridum</i>	ZA JIAO CHE ZHOU CAO
Hybrid Lily*	T3838 <i>Lilium speciosum</i> x <i>L. nobilissimum</i>	ZA JIAO BAI HEX
Hybrid Pathenium*	T4659 <i>Parthenium argentatum</i> x <i>P. tomentosa</i>	ZA JIAO YIN JIAO JU
Hypoglaucous Collett Yam	T2201 <i>Dioscorea hypoglauca</i> [Syn. <i>Dioscorea collettii</i> var. <i>hypoglauca</i>]	BI XIE
Hyrceanian Box*	T1089 <i>Buxus hyrcana</i>	HE KA NI YA HUANG YANG
Hyssop-leaved Boneset	T2562 <i>Eupatorium hyssopifolium</i>	SHEN XIANG CAO YE ZE LAN
Iberian Narcissus*	T4374 <i>Narcissus bujei</i>	YI BI LI YA SHUI XIAN
Iberian Oak*	T5373 <i>Quercus iberica</i>	YI BI LI YA LI
Iceland Moss	T1341 <i>Cetraria islandica</i>	BING DAO YI
Iceland Poppy	T4629 <i>Papaver nudicaule</i>	YE YING SU
Icosandrous Pokeweed*	T4865 <i>Phytolacca icosandra</i>	ER SHI RUI SHANG LU
Ignat Poisonnut Seed	T6177 <i>Strychnos ignatii</i>	LV SONG GUO
Ili Larkspur	T2078 <i>Delphinium iliense</i>	YI LI CUI QUE HUA
Illicis-leaf Mayten*	T4135 <i>Maytenus ilicifolia</i>	DONG QING YE MEI DENG MU
Illyrian Cottonthistle*	T4497 <i>Onopordum illyricum</i>	YI LI LI YA DA CHI JI
Imbricate Mosquito Fern	T0838 <i>Azolla imbricata</i> [Syn. <i>Salvinia imbricata</i>]	MAN JIANG HONG
Imbricate Podocarpus	T5041 <i>Podocarpus imbricatus</i>	JI MAO SONG
Immature Persimmon Fruit Juice	T2219 <i>Diospyros kaki</i>	SHI QI
Incarnate Gloeostereum	T2993 <i>Gloeostereum incarnatum</i>	YU ER
Incarnate Milkweed*	T0738 <i>Asclepias incarnata</i>	ROU HONG MA LI JIN
Incised Corydalis	T1719 <i>Corydalis incisa</i>	ZI HUA YU DENG CAO

Incised Histiopteris	T3260 <i>Histiopteris incisa</i>	LI JUE
Incised Notopterygium	T4446 <i>Notopterygium incisum</i>	QIANG HUO
Incurvedspur Snapweed	T3414 <i>Impatiens sicutifer</i>	HUANG JIN FENG
India Caraway*	T1216 <i>Carum ajowan</i>	YIN DU ZANG HUI XIANG
India Greenstar	T5065 <i>Polyalthia longifolia</i>	BIAN ZHONG CHANG YE AN LUO
India Jointfir	T3035 <i>Gnetum ula</i>	YIN DU MAI MA TENG
India Luvunga	T3946 <i>Luvunga scandens</i>	SAN YE TENG JU
India Mustard	T1007 <i>Brassica juncea</i>	JIE CAI
India Mustard Seed	T1008 <i>Brassica juncea</i>	JIE ZI
Indian Abutilon	T0015 <i>Abutilon indicum</i>	MO PAN CAO
Indian Aeginetia	T0195 <i>Aeginetia indica</i>	YE GU
Indian Avocado*	T4733 <i>Persea indica</i>	YIN DU E LI
Indian Azalea	T5523 <i>Rhododendron simsii</i>	DU JUAN HUA
Indian Azalea Leaf	T5524 <i>Rhododendron simsii</i>	DU JUAN HUA YE
Indian Balanophora	T0858 <i>Balanophora indica</i> [Syn. <i>Langodorfia indica</i>]	YIN DU SHE GU
Indian Balata*	T4105 <i>Manilkara indica</i>	IN DU TIE XIAN ZI
Indian Bread	T5169 <i>Poria cocos</i>	FU LING
Indian Catnip*	T4415 <i>Nepeta hindostana</i>	YIN DU JIA JING JIE
Indian Common Jasminorange	T4319 <i>Murraya koenigii</i>	YIN DU JIU LI XIANG
Indian Damnacanthus	T2020 <i>Damnacanthus indicus</i>	HU CI
Indian Dutchmanspipe*	T0630 <i>Aristolochia indica</i>	YIN DU MA DOU LING
Indian Epimeredi	T0503 <i>Anisomeles indica</i> [Syn. <i>Epimeredi indica</i>]	GUANG FANG FENG
Indian Garcinia*	T2859 <i>Garcinia indica</i>	YIN DU TENG HUANG
Indian Glorybower	T1557 <i>Clerodendron indicum</i>	CHANG GUAN JIA MO LI
Indian Greenstar Variety*	T5066 <i>Polyalthia longifolia</i> var. <i>pendula</i>	BIAN ZHONG CHANG YE AN LUO
Indian Heliotrope	T3174 <i>Heliotropium indicum</i>	DA WEI YAO
Indian Hemp*	T1177 <i>Cannabis sativa</i> var. <i>indica</i>	YIN DU DA MA
Indian Iphigenia	T3443 <i>Iphigenia indica</i>	CAO BEI MU
Indian Juicy Euphorbia*	T2603 <i>Euphorbia nivulia</i>	YIN DU DUO ZHI DA JI
Indian Jujube	T6920 <i>Ziziphus mauritiana</i>	MIAN ZAO
Indian Katon	T5708 <i>Sandoricum koetjape</i> [Syn. <i>Sandoricum indicum</i>]	YIN DU SHAN DAO LIAN YE
Indian Leadword	T5028 <i>Plumbago indica</i>	ZI XUE HUA
Indian Lettuce	T3659 <i>Lactuca indica</i>	SHAN WO JU
Indian Liana	T0449 <i>Ancistrocladus heyneanus</i>	HAI NI GOU ZHI TENG
Indian Madder Root	T5578 <i>Rubia cordifolia</i>	QIAN CAO GEN
Indian Madder Stem	T5579 <i>Rubia cordifolia</i>	QIAN CAO TENG
Indian Maesa	T4028 <i>Maesa indica</i>	LIANG MIAN QING
Indian Mockstrawberry	T2290 <i>Duchesnea indica</i>	SHE MEI
Indian Nightshade	T6000 <i>Solanum indicum</i>	TIAN QIE ZI
Indian Pea	T3710 <i>Lathyrus sativus</i>	CAO XIANG WAN DOU
Indian Pluchea	T0847 <i>Baccharis indica</i> [Syn. <i>Pluchea indica</i>]	KUO BAO JU
Indian Pokeweed	T4864 <i>Phytolacca esculenta</i> [Syn. <i>Phytolacca acinosa</i>]	SHANG LU
Indian Pristimera	T5208 <i>Pristimera indica</i>	BIAN SHUO TENG
Indian Python	T5368 <i>Python molurus bivittatus</i>	MANG SHE
Indian Quassiaewood	T4881 <i>Picrasma quassioides</i> [Syn. <i>Picrasma ailanthoides</i>]	KU MU
Indian Quassiaewood Bark	T4882 <i>Picrasma quassioides</i> [Syn. <i>Picrasma ailanthoides</i>]	KU SHU PI
Indian Rorippa	T5560 <i>Rorippa montana</i> [Syn. <i>Rorippa dubia</i> ; <i>Sisymbrium dubium</i>]	HAN CAI
Indian Sesbania	T5926 <i>Sesbania sesban</i>	AI JI TIAN JING
Indian Seseli*	T5932 <i>Seseli indicum</i>	YIN DU XIE HAO
Indian Skullcap	T5840 <i>Scutellaria indica</i>	HAN XIN CAO
Indian Snailseed*	T1585 <i>Cocculus indicus</i>	YIN DU MU FANG JI
Indian Sphaeranthus	T6071 <i>Sphaeranthus indicus</i>	RONG MAO DAI XING CAO
Indian Stringbush Root	T6820 <i>Wikstroemia indica</i>	LIAO GE WANG GEN

Indian Tobacco	T3900 <i>Lobelia inflata</i>	BEI MEI ZHOU SHAN GENG CAI
Indian Truffle	T6559 <i>Tuber indicum</i>	YIN DU KUAI JUN
Indian Trumpetflower	T4537 <i>Oroxylum indicum</i>	MU HU DIE
Indian Trumpetflower Bark	T4538 <i>Oroxylum indicum</i>	MU HU DIE SHU PI
Indian Tylophora*	T6577 <i>Tylophora asthmatica</i> [Syn. <i>Tylophora indica</i>]	YIN DU WA ER TENG
Indian Wild Chrysanthemum	T1392 <i>Chrysanthemum indicum</i>	YE JU
Indian Wild Chrysanthemum Flower	T1393 <i>Chrysanthemum indicum</i>	YE JU HUA
Indianmulberry	T4280 <i>Morinda citrifolia</i>	HAI BA JI
Indianpipe	T4276 <i>Monotropa uniflora</i>	SHUI JING LAN
Indian-Sri-Lankan Leafflower*	T4839 <i>Phyllanthus myritifolius</i>	YIN DU SI LI LAN KA YE XIA ZHU
Indica Melia*	T4161 <i>Melia indica</i>	YIN JIAN
Indigobush Amorpha	T0421 <i>Amorpha fruticosa</i>	ZI SUI HUAI
Indigo-coloured Woad Leaf	T3476 <i>Isatis indigotica</i>	DA QING YE
Indigoplant Fruit	T5120 <i>Polygonum tinctorium</i>	LIAO LAN GUO
Indigoplant Leaf	T5121 <i>Polygonum tinctorium</i>	LIAO LAN YE
Indigowoad Root	T3475 <i>Isatis indigotica</i>	BAN LAN GEN
Indochina Stemon*	T6108 <i>Stemona cochinchinensis</i>	YIN DU ZHI NA BAI BU
Inedible Mushroom	T3299 <i>Hydnellum caeruleum</i>	LAN SE YA CHI JUN
Inflated Licorice	T3015 <i>Glycyrrhiza inflata</i>	ZHANG GUO GAN CAO
Inflatedfruit Senna	T1247 <i>Cassia sophera</i>	JIANG MANG
Inflexed Rabdosia	T3494 <i>Isodon inflexa</i> [Syn. <i>Rabdosia inflexa</i>]	NEI ZHE XIANG CHA CAI
Inga*	T3424 <i>Inga umbellifera</i>	SAN XING HUA XU YIN JIA
Integerleaf Artocarpus	T0715 <i>Artocarpus integra</i>	QUAN YUAN GUI MU
Integrifolious Ailanthus*	T0257 <i>Ailanthus integrifolia</i> ssp. <i>calycina</i>	QUAN YUAN CHU
Integrifolious Artocarpus*	T0716 <i>Artocarpus integrifolia</i>	QUAN YUAN YE BO LUO MI
Integrifolious Barberry	T0905 <i>Berberis integerrima</i>	QUAN YUAN YE XIAO BO
Integrifolious Otostegia*	T4558 <i>Otostegia integrifolia</i>	QUAN YUAN YE AO TUO SI TE CAO
Integrifolious Pricklyash*	T6882 <i>Zanthoxylum integrifoliolum</i>	QUAN YUAN YE HUA JIAO
Integripetal Rhodiola	T5499 <i>Rhodiola sacra</i>	SHENG DI HONG JING TIAN
Intermediate Chartolepis	T1354 <i>Chartolepis intermedia</i>	BO LIN JU
Intermediate Ephedra	T2369 <i>Ephedra intermedia</i>	ZHONG MA HUANG
Intermediate Largeleaf Chastetree*	T1700 <i>Cornutia grandifolia</i> var. <i>intermedia</i>	ZHONG JIAN DA YE KE NU CAO
Intermediate Magnoliavine	T5798 <i>Schisandra propinqua</i> var. <i>intermedia</i>	ZHONG JIAN WU WEI ZI
Intermediate Peashrub	T1189 <i>Caragana intermedia</i>	ZHONG JIAN JIN JI ER
Intermediate Plagioclasma	T4989 <i>Plagioclasma intermedium</i>	WU WEN ZI BEI TAI
Intermediate Shiko Rabdosia*	T3526 <i>Isodon shikokiana</i> var. <i>intermedius</i>	JIAN XING SI GUO XIANG CHA CAI
Intermediate Stickseed	T3689 <i>Lappula intermedia</i>	ZHONG JIAN HE SHI
Intermediate Sundew*	T2265 <i>Drosera intermedia</i>	ZHONG JIAN MAO GAO CAI
Interrupted Clubmoss	T3965 <i>Lycopodium annotinum</i>	DAN SUI SHI SONG
Involucrate Balanophora	T0859 <i>Balanophora involucrata</i>	TONG QIAO SHE GU
Involute Spikemoss	T5862 <i>Selaginella involvens</i>	YAN ZHOU JUAN BAI
Ipecacuanha	T1315 <i>Cephaelis ipecacuanha</i>	TU GEN
Iran Dragonhead*	T2256 <i>Dracocephalum kotschyi</i>	YI LANG QING LAN
Iran Giantfennel*	T2703 <i>Ferula kuhistanica</i>	YI LANG A WEI
Iran Speedwell	T6727 <i>Veronica persica</i>	A LA BO PO PO NA
Iroko Fustic-tree	T1376 <i>Chlorophora excelsa</i>	GAO HUANG LU SANG
Iron-sheet Denrobium	T2108 <i>Dendrobium officinale</i>	TIE PI SHI HU
Italian Arum	T0719 <i>Arum italicum</i>	YI DA LI JIASNG NAN XING
Italian Everlasting*	T3158 <i>Helichrysum italicum</i>	YI DA LI LA JU
Italian Ryegrass	T3903 <i>Lolium multiflorum</i>	DUO HUA HEI MAI CAO
Italian Senna*	T1234 <i>Cassia italica</i>	YI DA LI JUE MING ZI
Iva Bugle*	T0265 <i>Ajuga iva</i>	AI WA JIN GU CAO
Ivory Coast Erythrophleum	T2486 <i>Erythrophleum ivorense</i>	XIANG YA HAI AN GE MU

Ivy Glorybind	T1143 <i>Calystegia hederacea</i>	MIAN GEN TENG
Jack Torreyia	T6478 <i>Torreya jackii</i>	CHANG YE FEI SHU
Jackinprison	T4431 <i>Nigella damascena</i>	HEI ZHONG CAO
Jadehairpin-leaf Plantain*	T5005 <i>Plantago hostifolia</i>	YU ZAN YE CHE QIAN
Jamaica Cherry*	T4314 <i>Muntingia calabura</i>	YA MAI JIA YING TAO
Jamaica Falsevalerian	T6095 <i>Stachytarpheta jamaicensis</i>	JIA MA BIAN
Jamaica Quassia-wood	T4880 <i>Picrasma excelsa</i>	YA MAI JIA KU MU
Japan Corktree*	T4793 <i>Phellodendron japonicum</i>	RI BEN HUANG BAI
Japan Hogfennel	T4760 <i>Peucedanum japonicum</i>	BIN HAI QIAN HU
Japanese Acanthopanax*	T0039 <i>Acanthopanax japonicum</i>	RI BEN WU JIA
Japanese Achyranthes	T0074 <i>Achyranthes fauriei</i>	RI BEN NIU XI
Japanese Agrimonia Root	T0250 <i>Agrimonia pilosa</i> var. <i>japonica</i>	XIAN HE CAO GEN
Japanese Agrimonia*	T0247 <i>Agrimonia japonica</i>	RI BEN LONG YA CAO
Japanese Alder	T0328 <i>Alnus japonica</i>	CHI YANG
Japanese Ampelopsis	T0427 <i>Ampelopsis japonica</i> [Syn. <i>Paullinia japonica</i>]	BAI LIAN
Japanese Angelica*	T0485 <i>Angelica japonica</i>	RI BEN DANG GUI
Japanese Anisetree	T3399 <i>Illicium anisatum</i>	RI BEN MANG CAO
Japanese Apricot	T5228 <i>Prunus mume</i>	WU MEI
Japanese Apricot Flower	T5226 <i>Prunus mume</i>	BAI MEI HUA
Japanese Apricot Kernel	T5227 <i>Prunus mume</i>	MEI HE REN
Japanese Aralia	T0568 <i>Aralia chinensis</i>	CONG MU
Japanese Arborviate Stem-bark	T6442 <i>Thuja standishii</i>	RI BEN XIANG BAI JING PI
Japanese Ardisia	T0598 <i>Ardisia japonica</i>	ZI JIN NIU
Japanese Ardisia Root	T0599 <i>Ardisia japonica</i>	ZI JIN NIU GEN
Japanese Argimonia	T0249 <i>Agrimonia pilosa</i> var. <i>japonica</i>	XIAN HE CAO
Japanese Argimonia Rhizome	T0251 <i>Agrimonia pilosa</i> var. <i>japonica</i>	XIAN HE CAO GEN YA
Japanese Ash*	T2771 <i>Fraxinus japonica</i>	RI BEN BAI LA SHU
Japanese Atractylodes	T0821 <i>Atractylodes japonica</i>	GUAN CANG ZHU
Japanese Aucuba	T0828 <i>Aucuba japonica</i>	DONG YING SHAN HU MU
Japanese Avens	T2955 <i>Geum japonicum</i>	SHUI YANG MEI
Japanese Avens Root	T2956 <i>Geum japonicum</i>	SHUI YANG MEI GEN
Japanese Azalea	T5511 <i>Rhododendron japonicum</i>	RI BEN DU JUAN HUA
Japanese Balanophora	T0860 <i>Balanophora japonica</i>	GE XUN
Japanese Barberry	T0916 <i>Berberis thunbergii</i>	RI BEN XIAO BO
Japanese Beautyberry	T1119 <i>Callicarpa japonica</i>	RI BEN ZI ZHU
Japanese Buckeye	T0204 <i>Aesculus turbinata</i>	RI BEN QI YE SHU
Japanese Bugbane*	T1422 <i>Cimicifuga japonica</i>	RI BEN SHENG MA
Japanese Bulge	T0267 <i>Ajuga nipponensis</i>	ZI BEI JIN PAN
Japanese Butterbur	T4740 <i>Petasites japonicus</i>	FENG DOU CAI
Japanese Buttercup	T5414 <i>Ranunculus japonicus</i>	MAO GEN
Japanese Caesalpinia*	T1104 <i>Caesalpinia japonica</i>	RI BEN SU MU
Japanese Camellia	T1145 <i>Camellia japonica</i>	SHAN CHA
Japanese Cayratia	T1275 <i>Cayratia japonica</i>	WU LIAN MEI
Japanese Cedar	T1868 <i>Cryptomeria japonica</i>	RI BEN LIU SHAN
Japanese Chinaberry-tree	T4160 <i>Melia azedarach</i> var. <i>japonica</i>	RI BEN KU LIAN
Japanese Chinaure*	T0966 <i>Boenninghausenia japonica</i>	RI BEN CHOU JIE CAO
Japanese Chionographis*	T1369 <i>Chionographis japonica</i>	RI BEN BAI SI CAO
Japanese Cinnamon	T1441 <i>Cinnamomum japonicum</i>	GUI PI
Japanese Clave Fern	T4502 <i>Onychium japonicum</i> [Syn. <i>Tricomanes japonicum</i>]	XIAO YE JI WEI
Japanese Cleyera	T1571 <i>Cleyera ochracea</i> [Syn. <i>Cleyera japonica</i>]	YANG TONG
Japanese Cleyera	T6350 <i>Ternstroemia japonica</i>	RI BEN HOU PI XIANG
Japanese Climbing Fern	T3990 <i>Lygodium japonicum</i>	HAI JIN SHA

Japanese Cnidium	T1581 <i>Cnidium japonicum</i>	BING SHE CHUANG
Japanese Conehead	T6154 <i>Strobilanthes japonicus</i> [Syn. <i>Championella japonica</i>]	HONG ZE LAN
Japanese Coniogramme	T1640 <i>Coniogramme japonica</i> [Syn. <i>Hemionitis japonica</i>]	FENG YA JUE
Japanese Coriaria*	T1690 <i>Coriaria japonica</i>	RI BEN MA SANG
Japanese Cowlily*	T4448 <i>Nuphar japonicum</i>	RI BEN PING PENG CAO
Japanese Creeper	T4662 <i>Parthenocissus tricuspidata</i>	DI JIN
Japanese Crinum	T1795 <i>Crinum asiaticum</i> var. <i>japonicum</i>	RI BEN WEN SHU LAN
Japanese Croomia	T1810 <i>Croomia japonica</i>	JIN GANG DA
Japanese Cryptotaenia	T1869 <i>Cryptotaenia japonica</i>	YA ER QIN
Japanese Dock	T5611 <i>Rumex japonicus</i>	YANG TI
Japanese Dodder Seed	T1913 <i>Cuscuta japonica</i>	DA TU SI ZI
Japanese Dualbutterfly*	T6537 <i>Tripterospermum japonicum</i>	RI BEN SHUANG HU DIE
Japanese Eel	T0500 <i>Anguilla japonica</i>	MAN LI YU
Japanese Elsholtzia*	T2342 <i>Elsholtzia nipponica</i>	RI BEN XIANG RU
Japanese Eupatorium	T2563 <i>Eupatorium japonicum</i>	CHENG GAN CAO
Japanese Eurya	T2631 <i>Eurya japonica</i>	LING MU
Japanese Farfugium	T2691 <i>Farfugium japonicum</i>	LIAN PENG CAO
Japanese Felt Fern Frond	T5357 <i>Pyrrosia lingua</i>	SHI WEI
Japanese Flagelliform Liverwort*	T0883 <i>Bazzania japonica</i>	RI BEN BIAN TAI
Japanese Fleeceflower	T5101 <i>Polygonum cuspidatum</i>	HU ZHANG
Japanese Fleeceflower Leaf	T5102 <i>Polygonum cuspidatum</i>	HU ZHANG YE
Japanese Galangal	T0357 <i>Alpinia japonica</i>	TU SHA REN
Japanese Ganoderma	T2846 <i>Ganoderma japonicum</i> [Syn. <i>Ganoderma sinense</i>]	ZI ZHI
Japanese Gentian*	T2912 <i>Gentiana japonica</i>	RI BEN LONG DAN
Japanese Ginseng	T4607 <i>Panax pseudo-ginseng</i> var. <i>japonicum</i>	ZHU JIE SAN QI
Japanese Goldenray	T3808 <i>Ligularia japonica</i> [Syn. <i>Arnica japonica</i> ; <i>Senecio japonica</i>]	DA TOU TUO WU
Japanese Goldsaxifrage	T1404 <i>Chrysosplenium japonicum</i>	RI BEN JIN YAO
Japanese Goldthread*	T1667 <i>Coptis japonica</i>	RI BEN HUANG LIAN
Japanese Hedgeparsley	T6476 <i>Torilis japonica</i>	HUA NAN HE SHI
Japanese Honeysuckle	T3912 <i>Lonicera japonica</i>	JIN YIN HUA
Japanese Honeysuckle Vine	T3913 <i>Lonicera japonica</i>	REN DONG TENG
Japanese Hop	T3288 <i>Humulus japonicus</i> [Syn. <i>Humulus scandens</i>]	LV CAO
Japanese Hylomecon	T3316 <i>Hylomecon japonica</i>	HE QING HUA
Japanese Hypecoum*	T3333 <i>Hypecoum japonicum</i>	DI TANG CAO
Japanese Inula	T3433 <i>Inula japonica</i>	JIN FEI CAO
Japanese Iris*	T3462 <i>Iris komonoensis</i>	RI BEN YUAN WEI
Japanese Ivy	T3115 <i>Hedera rhombea</i>	LING XING CHANG CHUN TENG
Japanese Kadsura	T3616 <i>Kadsura japonica</i>	RI BEN NAN WU WEI ZI
Japanese Katsura-tree	T1332 <i>Cercidiphyllum japonicum</i>	RI BEN LIAN XIANG SHU
Japanese Kerria Flower	T3628 <i>Kerria japonica</i>	DI TANG HUA
Japanese Kumquat	T2759 <i>Fortunella japonica</i>	JIN GAN
Japanese Linden	T6457 <i>Tilia japonica</i>	HUA DONG DUAN
Japanese liverwort	T3550 <i>Jackiella javanica</i>	ZHAO WA JIA KE TAI
Japanese Machilus*	T4016 <i>Machilus japonica</i>	RI BEN NAN
Japanese Maesa	T4029 <i>Maesa japonica</i>	DU JING SHAN
Japanese Mahonia	T4066 <i>Mahonia japonica</i>	HUA NAN GONG LAO MU
Japanese Mahonia Fruit	T4068 <i>Mahonia japonica</i>	HUA NAN GONG LAO ZI
Japanese Mahonia Leaf	T4067 <i>Mahonia japonica</i>	HUA NAN GONG LAO YE
Japanese Mallotus	T4082 <i>Mallotus japonicus</i>	YE WU TONG
Japanese Metaplexis	T4206 <i>Metaplexis japonica</i>	LUO MO
Japanese Metaplexis Seed	T4207 <i>Metaplexis japonica</i>	LUO MO ZI
Japanese Monkshood*	T0104 <i>Aconitum japonicum</i>	RI BEN WU TOU
Japanese Mulberry	T4291 <i>Morus australis</i>	AO DA LI YA SANG

Japanese Mushroom*(Sheep Polypore)	T0288 <i>Albatrellus ovinus</i>	RE BEN MO GU
Japanese Ophiorrhiza	T4510 <i>Ophiorrhiza japonica</i>	RI BEN SHE GEN CAO
Japanese Orixa	T4527 <i>Orixa japonica</i>	CHOU SHAN YANG
Japanese Osmunda Frond	T4552 <i>Osmunda japonica</i>	ZI QI
Japanese Pachysandra	T4575 <i>Pachysandra terminalis</i>	XUE SHAN LIN
Japanese Pagodatree	T6034 <i>Sophora japonica</i>	HUAI
Japanese Pagodatree Fruit	T6036 <i>Sophora japonica</i>	HUAI JIAO
Japanese Pagodatree Root	T6035 <i>Sophora japonica</i>	HUAI GEN
Japanese Phtheirospermum	T4831 <i>Phtheirospermum japonicum</i> [Syn. <i>Gerardia japonica</i>]	SONG HAO
Japanese Pieris	T4890 <i>Pieris japonica</i>	RI BEN MA ZUI MU
Japanese Pittosporum	T4987 <i>Pittosporum tobira</i>	HAI TONG
Japanese Plum	T5239 <i>Prunus salicina</i>	LI ZI
Japanese Plum Kernel	T5238 <i>Prunus salicina</i>	LI HE REN
Japanese Plumyew	T1320 <i>Cephalotaxus harringtonia</i>	RI BEN CU FEI
Japanese Polypody	T5124 <i>Polypodium niponicum</i>	SHUI LONG GU
Japanese Premna	T5194 <i>Premna microphylla</i>	DOU FU CHAI
Japanese Pricklyash	T6886 <i>Zanthoxylum piperitum</i>	HU JIAO HUA JIAO
Japanese Privet	T3827 <i>Ligustrum japonicum</i>	RI BEN NV ZHEN
Japanese Privet	T3829 <i>Ligustrum robustum</i>	CU ZHUANG NV ZHEN
Japanese Pyrola	T5350 <i>Pyrola japonica</i>	RI BEN LU TI CAO
Japanese Rabdosia	T3496 <i>Isodon japonica</i> [Syn. <i>Rabdosia japonica</i>]	MAO YE XIANG CHA CAI
Japanese Raisin Tree Root	T3285 <i>Hovenia dulcis</i>	ZHI JU GEN
Japanese Raisin Tree Seed	T3286 <i>Hovenia dulcis</i>	ZHI JU ZI
Japanese Raspberry	T5595 <i>Rubus parviflorus</i>	MAO MEI
Japanese Rose Root	T5569 <i>Rosa multiflora</i>	QIANG WEI GEN
Japanese Sapium	T5722 <i>Sapium japonicum</i>	BAI MU WU JIU
Japanese Scopolia	T5821 <i>Scopolia japonica</i>	DONG LANG DANG
Japanese Skimmia	T5970 <i>Skimmia japonica</i>	XIANG YIN YU
Japanese Snailseed	T1589 <i>Cocculus trilobus</i> [Syn. <i>Cocculus sarmentosus</i>]	MU FANG JI
Japanese Snailseed Stem	T1590 <i>Cocculus trilobus</i> [Syn. <i>Cocculus sarmentosus</i>]	QING TENG XIANG
Japanese Snakegourd	T6507 <i>Trichosanthes cucumeroides</i>	WANG GUA
Japanese Snakegourd Seed	T6508 <i>Trichosanthes cucumeroides</i>	WANG GUA ZI
Japanese Snowbell Stem-bark	T6200 <i>Styrax japonica</i>	RI BEN AN XI XIANG JING PI
Japanese Spicebush	T3853 <i>Lindera obtusiloba</i>	SAN ZUAN FENG
Japanese Spiraea	T6079 <i>Spiraea japonica</i>	XIU XIAN JU
Japanese Spiraea Leaf	T6080 <i>Spiraea japonica</i>	XIU XIAN JU YE
Japanese St. John'swort	T3356 <i>Hypericum japonicum</i>	DI ER CAO
Japanese Staphania	T6129 <i>Stephania japonica</i>	QIAN JIN TENG
Japanese Star Jasmine*	T6483 <i>Trachelospermum asiaticum</i>	RI BEN LUO SHI
Japanese Stauntonvine	T6100 <i>Stauntonia hexaphylla</i>	NA TENG
Japanese Stauntonvine Fruit	T6101 <i>Stauntonia hexaphylla</i>	NA TENG GUO
Japanese Stemona	T6111 <i>Stemona japonica</i>	WAN SHENG BAI BU
Japanese Swallowwort*	T1956 <i>Cynanchum japonicum</i>	RI BEN NIU PI XIAO
Japanese Sweetflag*	T0143 <i>Acorus calamus</i> var. <i>angustatus</i>	RI BEN CHANG PU
Japanese Swertia*	T6223 <i>Swertia japonica</i>	RI BEN ZHANG YA CAI
Japanese Tachibana	T1513 <i>Citrus tachibana</i>	LI HUA JU
Japanese Teasel	T2235 <i>Dipsacus japonicus</i>	XU DUAN
Japanese Thistle	T1449 <i>Cirsium japonicum</i>	DA JI
Japanese Toadflax	T3844 <i>Linaria japonica</i>	HAI BIN LIU CHUAN YU
Japanese Trileaf Ladybell*	T0169 <i>Adenophora triphylla</i> var. <i>japonica</i>	RI BEN SAN YE SHA SEN
Japanese Umbrellaleaf	T2231 <i>Diphylleia grayi</i>	SHAN HE YE
Japanese White Birch Bark	T0933 <i>Betula platyphylla</i>	HONG HUA PI
Japanese White Chinaure*	T0965 <i>Boenninghausenia albiflora</i> var. <i>japonica</i>	RI BEN BAI SONG FENG CAO

Japanese Viburnum	T6734 <i>Viburnum awabuki</i>	RI BEN JIA MI
Japanese Wormwood	T0678 <i>Artemisia japonica</i>	MU HAO
Japanese Yam	T2202 <i>Dioscorea japonica</i>	RI BEN SHU YU
Japanese Yew	T6311 <i>Taxus cuspidata</i>	ZI SHAN
Japanese-lantern	T4845 <i>Physalis alkekengi</i>	SUAN JIANG
Japanise Chloranthus	T1371 <i>Chloranthus japonicus</i>	YIN XIAN CAO
Jasmine Nightshade	T6001 <i>Solanum jasminoides</i>	SU XIN YE BAI YING
Jatamans Valeriana	T6677 <i>Valeriana jatamansii</i> [Syn. <i>Valeriana wallichii</i>]	ZHI ZHU XIANG
Java Almond Canary-tree	T1166 <i>Canarium commune</i>	ZHAO WA GAN LAN
Java Brucea	T1038 <i>Brucea javanica</i> [Syn. <i>Brucea sumatrana</i> ; <i>Rhus javanica</i>]	YA DAN ZI
Java Cudrania*	T1886 <i>Cudrania javanensis</i>	ZHAO WA ZHE SHU
Java Devilpepper	T5442 <i>Rauwolfia serpentina</i>	YIN DU LUO FU MU
Java Wrightia*	T6833 <i>Wrightia javanica</i>	ZHAO WA DAO DIAO BI
Javan Bishopwood	T0945 <i>Bischofia javanica</i> [Syn. <i>Bischofia trifoliata</i>]	QIU FENG MU
Javan Meadowrue	T6408 <i>Thalictrum sessile</i>	WU BING TANG SONG CAO
Javan Waterdropwort	T4482 <i>Oenanthe javanica</i>	SHUI QIN
Javan Waterdropwort Flower	T4481 <i>Oenanthe javanica</i>	QIN HUA
Jehol Ligusticum	T3822 <i>Ligusticum jeholense</i>	LIAO GAO BEN
Jersey Lily	T0390 <i>Amaryllis belladonna</i>	GU TING HUA
Jersey Lily Hybrid	T0391 <i>Amaryllis belladonna</i> [hybrida]	GU TING HUA ZA JIAO ZHONG
Jerusalem Artichoke	T3155 <i>Helianthus tuberosus</i>	JU YU
Jerusalemcherry Root	T6009 <i>Solanum pseudo-capsicum</i>	YU SHAN HU GEN
Jerusalem sage	T4814 <i>Phlomis umbrosa</i>	CAO SU
Jew's Ear	T0830 <i>Auricularia auricula</i>	MU ER
Jews-mallow	T1675 <i>Corchorus olitorius</i>	CHANG SHUO HUANG MA
Jiadifengpi Anisetree	T3402 <i>Illicium jiadifengpi</i>	JIA DI FENG PI
Jiangxi Tinospora*	T6465 <i>Tinospora craveniana</i>	JIANG XI QING NIU DAN
Jiangzi Seabuckthorn*	T3255 <i>Hippophae rhamnoides</i> subsp. <i>gyantsensis</i>	JIANG ZI SHA JI
Jimsonweed Root	T2046 <i>Datura stramonium</i>	OU MAN TUO LUO GEN
Jimsonweed Seed*	T2047 <i>Datura stramonium</i>	WAN TAO HUA ZI
Jinghong Greenstar	T5064 <i>Polyalthia cheliensis</i>	JING HONG AN LUO
Jiuhua Largesepal Rabdosia	T3512 <i>Isodon macrocalyx</i> var. <i>jiuhua</i>	JIU HUA DA E XIANG CHA CAI
Jobstears Seed	T1614 <i>Coix lacryma-jobi</i> var. <i>ma-yuen</i>	YI YI REN
Jointfir Ephedra	T2366 <i>Ephedra distachya</i>	SHUANG SUI MA HUANG
Jointwood Senna	T1239 <i>Cassia nodosa</i>	SHEN HUANG DOU
Jolkin Euphorbia	T2594 <i>Euphorbia jolkini</i>	NAN DA JI
Juanislama (in Salvador)	T1111 <i>Calea urticifolia</i>	YOU KA MEI JU
Juicy Milky*	T3654 <i>Lactarius rolemus</i>	DUO ZHI RU GU
Junc-like Sandwort	T0607 <i>Arenaria juncea</i>	LAO NIU JIN
Jupar Rhodiola	T5496 <i>Rhodiola juparensis</i>	YUAN CONG HONG JING TIAN
Juvenileleaf Common Jasminorange	T4321 <i>Murraya microphylla</i>	NEN YE JIU LI XIANG
Juzepczuk Nightshade*	T6002 <i>Solanum juzepczukii</i>	JU SHI QIE
Kabliki Butterbur*	T4741 <i>Petasites kablikianus</i>	KA BU LI FENG DOU CAI
Kadsura Pepper	T4950 <i>Piper kadsura</i> [Syn. <i>Piper futokadsura</i>]	HAI FENG TENG
Kaempfer Dutchmanspipe	T0631 <i>Aristolochia kaempferi</i>	ZHU SHA LIAN
Kaith Ramin*	T3052 <i>Gonystylus keithii</i>	KAI TE LENG ZHU MU
Kalofilum	T1129 <i>Calophyllum inophyllum</i>	HAI TANG GUO
Kamatree	T4084 <i>Mallotus philippinensis</i>	LV SONG QIU MAO
Kamchatka Bugbane	T1425 <i>Cimicifuga simplex</i>	YE SHENG MA
Kamchatka Fritillary	T2782 <i>Fritillaria camtschatcensis</i>	HEI BAI HE
Kamchatka Oxtongue	T4885 <i>Picris kamschatcica</i>	KAN CHA JIA MAO LIAN CAI
Kamei Rabdosia*	T3498 <i>Isodon kameba</i>	KA MEI XIANG CHA CAI
Kandelia	T3626 <i>Kandelia candel</i>	QIU QIE SHU

Kangting Larkspur	T2087 <i>Delphinium tatsienense</i>	KANG DING CUI QUE HUA
Kansas Gay-feather	T3790 <i>Liatris pycnostachya</i>	MI SUI HUA SHE BIAN JU
Kansu Hawthorn	T1771 <i>Crataegus kansuensis</i>	GAN SU SHAN ZHA
Kansu Sandwort	T0608 <i>Arenaria kansuensis</i> [Syn. <i>Arenaria kumaonensis</i>]	XUE LING ZHI
Kansui Euphorbia	T2596 <i>Euphorbia kansui</i>	GAN SUI
Kapok Ceiba	T1284 <i>Ceiba pentandra</i>	JI BEI
Karaba Sage*	T5676 <i>Salvia karabachensis</i>	KA LA BA DAN SHEN
Karoo Acacia	T0022 <i>Acacia karroo</i>	KA LUO JIN HE HUAN
Kashgar Tamarisk	T6288 <i>Tamarix hispida</i>	GANG MAO CHENG LIU
Kashmir Larkspur	T2066 <i>Delphinium cashmerianum</i>	KE SHEN MI ER CUI QUE
Katsumada Galangal	T0358 <i>Alpinia katsumadai</i>	CAO DOU KOU
Katsura-tree	T1333 <i>Cercidiphyllum japonicum</i> var. <i>sinense</i>	LIAN XIANG SHU
Kava Pepper	T4955 <i>Piper methysticum</i>	KA WA HU JIAO
Kawakami Gambirplant*	T6619 <i>Uncaria kawakamii</i>	CHUAN SHANG LONG MI GOU TENG
<i>Kayea assamica</i>	T3627 <i>Kayea assamica</i>	
Kazinoki Papermulberry	T1031 <i>Broussonetia kazinoki</i>	XIAO GOU SHU
Keiske Angelica*	T0487 <i>Angelica keiskei</i>	KAI SHI DANG GUI
Kelp Thallus	T3678 <i>Laminaria japonica</i>	KUN BU
Kenaf Hibiscus	T3238 <i>Hibiscus cannabinus</i>	DA MA JIN
Kenya Coralbean*	T2461 <i>Erythrina burttii</i>	KEN NI YA CI TONG
Kenya Crinum*	T1798 <i>Crinum kirkii</i>	KEN NI YA WEN SHU LAN
Kenya Embelia*	T2350 <i>Embelia schimperi</i>	KEN NI YA XIAN SUAN QIANG
Kenya Myrrhree*	T1636 <i>Commiphora kua</i> var. <i>gowllo</i>	KEN NI YA MO YAO
Kenya Tephrosia*	T6331 <i>Tephrosia aequilata</i>	KEN NI YA HUI YE
Kerri Petrocosmea*	T4747 <i>Petrocosmea kerrii</i>	SHI HU DIE
Kerri Stemona*	T6112 <i>Stemona kerrii</i>	DI TANG BAI BU
Khasi Nightshade Fruit	T6003 <i>Solanum khasianum</i>	CI TIAN QIE
Khasya Pine	T4911 <i>Pinus kesiya</i>	KA XI YA SONG
Khat	T1266 <i>Catha edulis</i>	QIAO CHA
Khingan Fir	T0006 <i>Abies nephrolepis</i>	CHOU LENG SHAN
Kidney Bean	T4785 <i>Phaseolus vulgaris</i>	BAI FAN DOU
Kidney Vetch	T0531 <i>Anthyllis vulneraria</i>	LIAO SHANG RONG MAO HUA
Kidneyleaf Goldenray	T3805 <i>Ligularia fischeri</i>	HU LU QI
Kidneyleaf Goldenray Variety*	T3806 <i>Ligularia fischeri</i> var. <i>spiciformis</i>	HU LU QI BIAN ZHONG
King Orange	T1502 <i>Citrus nobilis</i>	CHUAN JU
King Solomonseal	T5092 <i>Polygonatum kingianum</i>	DIAN HUANG JING
Kingsbloom	T4587 <i>Paeonia officinalis</i>	YAO YONG MU DAN
Kinokuni Citrus	T1489 <i>Citrus kinokuni</i>	RU JU
Kirilow Groundsel Herb	T6330 <i>Tephrosia kirilowii</i> [Syn. <i>Senecio integrifolius</i> var. <i>fauriei</i>]	GOU SHE CAO
Kirilow Rhodiola	T5497 <i>Rhodiola kirilowii</i>	XIA YE HONG JING TIAN
Kirin Monkshood*	T0106 <i>Aconitum kirinense</i>	JI LIN WU TOU
Kiushu Brake	T5292 <i>Pteris kiushuiensis</i>	PING YU FENG WEI JUE
Klein Cinquefoil	T5184 <i>Potentilla kleiniana</i>	SHE HAN WEI LING CAI
Kleini Senna*	T1235 <i>Cassia kleinii</i>	KE LEI NI JUE MING
Klotzsch Wormwood*	T0679 <i>Artemisia klotzschiana</i>	KE SHI HAO
Knotteflower Phyla Herb	T3865 <i>Lippia nodiflora</i>	PENG LAI CAO
Ko Condorvine	T4117 <i>Marsdenia koi</i>	DA YE NIU NAI CAI
Kobus Magnolia	T4040 <i>Magnolia kobus</i>	RI BEN XIN YI
Koch Gentian*	T2914 <i>Gentiana kochiana</i>	KU HE LONG DAN
Kohl-rabi	T1019 <i>Brassica oleracea</i> var. <i>gongylodes</i>	PIE LAN
Kola Garcinia*	T2860 <i>Garcinia kola</i>	KE LE TENG HUANG
Komarov Mosquitotrap	T1957 <i>Cynanchum komarovii</i>	NIU XIN PIAO ZI

Kombe <i>Strophanthus</i> *	T6157 <i>Strophanthus kombe</i>	KANG PI DU MAO XUAN HUA
Kongu	T3280 <i>Hopea parviflora</i>	XIAO HUA PO LEI
Konish Chinafir	T1890 <i>Cunninghamia konishii</i>	TAI WAN SHAN MU
Konka Mountain Monkshood	T0112 <i>Aconitum liljestrandii</i>	GONG GA SHAN WU TOU
Koraen <i>Atractylodes</i>	T0822 <i>Atractylodes koreana</i>	CHAO XIAN CANG ZHU
Korea <i>Patrinia</i> *	T4671 <i>Patrinia saniculaefolia</i>	BIAN DOU CAI YE BAI JIANG
Korea Poplar	T5154 <i>Populus koreana</i>	XIANG YANG
Korean <i>Acanthopanax</i> *	T0040 <i>Acanthopanax koreanum</i>	CHAO XIAN WU JIA
Korean Big Thyme*	T6448 <i>Thymus magnus</i>	CHAO XIAN DA BAI LI XIANG
Korean <i>Epimedium</i>	T2398 <i>Epimedium koreanum</i>	CHAO XIAN YIN YANG HUO
Korean Fir	T0005 <i>Abies koreana</i>	CHAO XIAN LENG SHAN
Korean <i>Forsythia</i> *	T2754 <i>Forsythia koreana</i>	CHAO XIAN LIAN QIAO
Korean Monkshood	T0088 <i>Aconitum coreanum</i>	HUANG HUA WU TOU
Korean Pine	T4913 <i>Pinus koraiensis</i>	HONG SONG
Korean Pine Seed	T4912 <i>Pinus koraiensis</i>	HAI SONG ZI
Korean <i>Pulsatilla</i>	T5324 <i>Pulsatilla cernua</i>	CHAO XIAN BAI TOU WENG
Korean <i>Rhododendron</i>	T5519 <i>Rhododendron mucronulatum</i>	YING SHAN HONG
Korean <i>Sophora</i>	T6037 <i>Sophora koreensis</i>	CHAO XIAN LANG YA CI
Korean Spruce	T4873 <i>Picea koraiensis</i>	HONG PI YUN SHAN
Kotake (in Japanese)	T5734 <i>Sarcodon aspratus</i>	
Krukov Mayten*	T4136 <i>Maytenus krukovii</i>	KE SHI MEI DENG MU
Kua Myrrh tree*	T1635 <i>Commiphora kua</i>	KU A MO YAO
Kudincha Holly	T3392 <i>Ilex kudingcha</i>	KU DING CHA DONG QING
Kulaso Aloe Dried Juice	T0347 <i>Aloe vera</i> [Syn. <i>Aloe barbadensis</i>]	LU HUI
Kunming Mosquitotrap	T1963 <i>Cynanchum wallichii</i>	DUAN JIE SHEN
Kunming <i>Rabdosia</i> *	T3499 <i>Isodon kunmingensis</i>	KUN MING XIANG CHA CAI
Kunming <i>Thorowax</i> *	T1064 <i>Bupleurum kunmingense</i>	KUN MING CHAI HU
Kuroo <i>Gentian</i> *	T2915 <i>Gentiana kuroo</i>	KU RUO LONG DAN
Kurz <i>Alangium</i>	T0282 <i>Alangium kurzii</i>	MAO BA JIAO FENG
Kusnezoff Monkshood	T0108 <i>Aconitum kusnezoffii</i>	BEI WU TOU
Kwangsi <i>Jasminorange</i>	T4320 <i>Murraya kwangsiensis</i>	GUANG XI JIU LI XIANG
Kwangsi <i>Turmeric</i>	T1904 <i>Curcuma kwangsiensis</i>	GUANG XI E SHU
Kweichou <i>Uvaria</i>	T6664 <i>Uvaria kweichowensis</i>	LIU GUO ZI YU PAN
Laburnum <i>Crotalaria</i> *	T1824 <i>Crotalaria laburnifolia</i>	JIN LIAN HUA ZHU SHI DOU
Lac	T3649 <i>Laccifer lacca</i>	ZI CAO RONG
Lacebark Pine	T4908 <i>Pinus bungeana</i>	BAI PI SONG
Laciniate Lettuce*	T3660 <i>Lactuca laciniata</i>	SUI BIAN WO JU
Laevigate <i>Parameria</i>	T4642 <i>Parameria laevigata</i>	CHANG JIE ZHU
Lagopsis	T3675 <i>Lagopsis supina</i>	XIA ZHI CAO
Lakoocha <i>Artocarpus</i> *	T0717 <i>Artocarpus lakoocha</i>	LA KOU SHA MIAN BAO GUO
Lalang Grass Leaf	T3417 <i>Imperata cylindrica</i> var. <i>major</i>	MAO CAO YE
Lalang Grass Rhizome	T3416 <i>Imperata cylindrica</i> var. <i>major</i>	BAI MAO GEN ⁽¹⁾
Lambert Barberry	T0908 <i>Berberis lambertii</i>	LAN BO TE XIAO BO
Lambsquarters Juvenile	T1359 <i>Chenopodium album</i>	LI
Lanatchead <i>Saussurea</i>	T5757 <i>Saussurea laniceps</i>	MIAN TOU XUE LIAN
Lancaster's St. John'swort	T3357 <i>Hypericum lancasteri</i>	ZHAN E JIN SI TAO
Lance <i>Coreopsis</i>	T1685 <i>Coreopsis lanceolata</i>	XIAN YE JIN JI JU
Lanceleaf <i>Actinodaphne</i> *	T0166 <i>Actinodaphne lancifolia</i>	PI ZHEN YE HUANG ROU NAN
Lanceleaf Dogbane*	T0552 <i>Apocynum lancifolium</i>	HONG MA
Lanceleaf <i>Eupatorium</i> *	T2564 <i>Eupatorium lancifolium</i>	ZHEN YE ZE LAN
Lanceleaf <i>Thermopsis</i>	T6428 <i>Thermopsis lanceolata</i>	MU MA DOU
Lanceleaf Wingseed tree	T5310 <i>Pterospermum lanceaeifolium</i>	ZHAI YE BAN FENG HE
Lance-leaved Gambirplant	T6622 <i>Uncaria lancifolia</i>	PI ZHEN YE GOU TENG

Lanceolate Kadsura*	T3617 <i>Kadsura lancilimba</i>	PI ZHEN YE NAN WU WEI ZI
Lanceolate Maesa*	T4030 <i>Maesa lanceolata</i>	PI ZHEN DU JING SHAN
Lanceolate Periwinkle*	T1267 <i>Catharanthus lanceus</i>	JIAN ZHUANG CHANG CHUN HUA
Lanceolate Starwort	T6104 <i>Stellaria dichotoma</i> var. <i>lanceolata</i>	YIN CHAI HU
Lanceolate Stringbush*	T6821 <i>Wikstroemia lanceolata</i>	PI ZHEN XING YAO HUA
Lanceolate Sumac*	T5533 <i>Rhus lanceolata</i>	PI ZHEN QI SHU
Lancepod	T3904 <i>Lonchocarpus atropurpureus</i>	
Langpetal Globeflower	T6554 <i>Trollius macropetalus</i>	CHANG BAN JIN LIAN HUA
Lantern-tree	T1792 <i>Crinodendron hookerianum</i>	HONG BAI HE MU
Lanyu Garcinia	T2861 <i>Garcinia linnii</i>	TAI WAN LV DAO TENG HUANG
Larch-leaf St.John'swort*	T3358 <i>Hypericum laricifolium</i>	LUO YE SONG YE JIN SI TAO
Large Caesalpinia*	T1105 <i>Caesalpinia major</i>	DA YUN SHI
Large Euphorbia Root	T2602 <i>Euphorbia nematocyptha</i>	DA LANG DU
Largeflower Astilbe	T0785 <i>Astilbe macroflora</i>	DA HUA LUO XIN FU
Largeflower Euonymus	T2541 <i>Euonymus grandiflorus</i>	YE DU ZHONG
Largeflower Falsehellebore	T6697 <i>Veratrum grandiflorum</i>	MAO YE LI LU
Largeflower Jasmine*	T3554 <i>Jasminum grandiflorum</i>	SU XIN HUA
Largeflower Jerusalem sage	T4808 <i>Phlomis grandiflora</i> var. <i>grandiflora</i>	DA HUA CAO SU
Largeflower Purslane	T5172 <i>Portulaca grandiflora</i>	DA HUA MA CHI XIAN
Largeflower Uvaria	T6662 <i>Uvaria grandiflora</i>	DA HUA ZI YU PAN
Largeflower Wildginger	T0729 <i>Asarum maximum</i>	DA HUA XI XIN
Large-flowered Dendranthema*	T2093 <i>Dendranthema grandiflorum</i>	DA HUA JU
Large-flowered Epimedium	T2396 <i>Epimedium grandiflorum</i>	DA HUA YIN YANG HUO
Large-flowered Epimedium Variety	T2397 <i>Epimedium grandiflorum</i> var. <i>thumbergianum</i>	DA HUA YIN YANG HUO BIAN ZHONG
Largeflower-like Honeysuckle	T3914 <i>Lonicera macranthoides</i>	HUI ZHAN MAO REN DONG
Largefruit Euphorbia*	T2626 <i>Euphorbia wallichii</i>	DA GUO DA JI
Largehead Atractylodes	T0824 <i>Atractylodes macrocephala</i> [Syn. <i>Atractylis macrocephala</i>]	BAI ZHU
Largeleaf Aglaia*	T0235 <i>Aglaia elliptifolia</i>	DA YE SHU LAN
Largeleaf Ampelopsis	T0428 <i>Ampelopsis megalophylla</i>	DA YE SHE PU TAO
Largeleaf Chinese Ash Bark	T2777 <i>Fraxinus rhynchophylla</i> [Syn. <i>Fraxinus chinensis</i> var. <i>rhynchophylla</i>]	CEN PI
Largeleaf Curculigo	T1900 <i>Curculigo capitulata</i> [Syn. <i>Leucojum capitulata</i>]	DA YE XIAN MAO
Largeleaf Devilpepper*	T5437 <i>Rauwolfia macrophylla</i>	DA YE LUO FU MU
Largeleaf Gambirplant	T6625 <i>Uncaria macrophylla</i>	DA YE GOU TENG
Largeleaf Gentian	T2919 <i>Gentiana macrophylla</i>	QIN JIAO
Largeleaf Hydrangea	T3304 <i>Hydrangea macrophylla</i>	BA XIAN HUA
Largeleaf Inula	T3430 <i>Inula grandis</i>	DA YE TU MU XIANG
Largeleaf Japanese Ginseng	T4605 <i>Panax japonicus</i> var. <i>major</i>	QIN LING ZHU ZI SHEN
Largeleaf Pepper*	T4951 <i>Piper laetispicum</i>	DA YE JU
Largeleaf Rabdosia	T5394 <i>Rabdosia macrophylla</i>	DA YE XIANG CHA CAI
Largeleaf Spicebush	T3852 <i>Lindera megaphylla</i>	HEI KE NAN
Largeleaf Spicebush Branch-leaf	T3857 <i>Lindera umbellata</i> [Syn. <i>Lindera erythrocarpa</i>]	DIAO ZHANG ZHI YE
Largeleaf Spicebush Root-bark	T3856 <i>Lindera umbellata</i> [Syn. <i>Lindera erythrocarpa</i>]	DIAO ZHANG GEN PI
Largeleaf Uvaria*	T6665 <i>Uvaria macrophylla</i>	DA YE ZI YU PAN
Largeseed Bugle	T0266 <i>Ajuga macrosperma</i>	DA ZI JIN GU CAO
Largeseed Hemsleya	T3208 <i>Hemsleya macrosperma</i>	DA ZI XUE DAN
Largesepal Rabdosia	T3511 <i>Isodon macrocalyx</i>	DA E XIANG CHA CAI
Largesepal Rabdosia	T3513 <i>Isodon macrocalyx</i>	DA E BIAN XING XIANG CHA CAI orm
Largeserrate Mosla	T4306 <i>Mosla grosseserrata</i>	JI NING
Late-flower Boneset	T2575 <i>Eupatorium serotinum</i>	WAN HUA ZE LAN
Lateripening Bartsia	T4479 <i>Odontites serotina</i>	CHI YE CAO

Laureate Skimmia*	T5971 <i>Skimmia laureola</i>	GUANG RONG YIN YU
Laurel-leaf Acronychia*	T0150 <i>Acronychia laurifolia</i>	YUE GUI YE SHAN YOU GAN
Laurelleaf Litsea*	T3891 <i>Litsea laurifolia</i>	YUE GUI SHU YE MU JIANG ZI
Laurelleaf Snailseed	T1586 <i>Cocculus laurifolius</i>	HENG ZHOU WU YAO
Laurel-like Barberry	T0909 <i>Berberis laurina</i>	YUE GUI XIAO BO
Laurent Crinum*	T1800 <i>Crinum laurentii</i>	LAO SHI WEN SHU LAN
Law Aglaia*	T0238 <i>Aglaia lawii</i>	
Lavandulaleaf Chrysanthemum	T1394 <i>Chrysanthemum lavandulifolium</i>	YAN XIANG JU
Lavender-gustatory Eupatorium*	T2576 <i>Eupatorium stoechadosmum</i>	DUO XU GONG
Lavenderleaf Wormwood	T0681 <i>Artemisia lavandulaefolia</i>	YE AI HAO
Laver	T5171 <i>Porphyra tenera</i>	ZI CAI
Lawn Pennywort	T3311 <i>Hydrocotyle sibthorpioides</i>	TIAN HU SUI
Lax Nightshade*	T6004 <i>Solanum laxum</i>	XI SHU QIE
Laxflower Hairyscal Rabdosia	T3487 <i>Isodon ericalyx</i> var. <i>laxiflora</i>	SHU HUA MAO E XIANG CHA CAI
Laxflower Valeriana*	T6678 <i>Valeriana laxiflora</i>	SHU HUA JIE CAO
Laxleaf Sweetroot	T4551 <i>Osmorhiza aristata</i> var. <i>laxa</i>	XIANG GEN QIN
Leabo Monkshood	T0124 <i>Aconitum pseudohuiliense</i>	LEI BO WU TOU
Leachiana Sophora	T6038 <i>Sophora leachiana</i>	LI QI HUAI
Lead-coloured Brake	T5297 <i>Pteris plumbea</i>	LI BING FENG WEI JUE
Leadwordleaf Tobacco	T4426 <i>Nicotiana plumbaginifolia</i>	HUI YE YAN CAO
Leafless Anabasis	T0435 <i>Anabasis aphylla</i>	WU YE JIA MU ZEI
Leafless Swallowwort*	T1949 <i>Cynanchum aphyllum</i>	WU YE BAI QIAN
Leafspike Rabdosia	T3519 <i>Isodon phyllostachys</i>	YE SUI XIANG CHA CAI
Leafy Crazyweed	T4568 <i>Oxytropis myriophylla</i>	DUO YE JI DOU
Leafy Euphorbia	T2585 <i>Euphorbia esula</i>	JI CHANG LANG DU
Leafy St.John'swort*	T3351 <i>Hypericum foliosum</i>	DUO YE JIN SI TAO
Leafy Trefoil*	T3931 <i>Lotus polyphyllus</i>	DUO YE BAI MAI GEN
Leafy-fruited Nightshade	T6011 <i>Solanum sarrachoides</i>	YE GUO QIE
Leatherleaf Mahonia	T4055 <i>Mahonia bealei</i>	SHI DA GONG LAO MU
Leatherleaf Mahonia Fruit	T4057 <i>Mahonia bealei</i>	SHI DA GONG LAO ZI
Leatherleaf Mahonia Leaf	T4056 <i>Mahonia bealei</i>	SHI DA GONG LAO YE
Leatherleaf Millettia Root	T4243 <i>Millettia reticulata</i>	JI XUE TENG GEN
Lebrun Greenbrier	T5979 <i>Smilax lebrunii</i>	CU CAO BA QIA
Lechler Croton*	T1849 <i>Croton lechleri</i>	LAI KE BA DOU
Ledebour Globeflower	T6553 <i>Trollius ledebourii</i>	DUAN BAN JIN LIAN HUA
Ledeour Corydalis*	T1720 <i>Corydalis ledebouriana</i>	DUI YE YUAN HU
Ledger Cinchona	T1428 <i>Cinchona ledgeriana</i>	JIN JI LE
Leefe Litsea*	T3892 <i>Litsea leefeana</i>	LI FEI MU JIANG ZI
Leek	T0317 <i>Allium porrum</i>	JIU CONG
Legendre Monkshood	T0110 <i>Aconitum legendrei</i>	MIAN NING WU TOU
Leiocarpus Goniothalamus	T3049 <i>Goniothalamus leiocarpus</i>	JIN PING GE NA XIANG
Leio-fruit Ninenode*	T5276 <i>Psychotria leiocarpa</i>	PING HUA GUO JIU JE
Lemon	T1490 <i>Citrus limon</i>	NING MENG
Lemon Eucalyptus Leaf	T2505 <i>Eucalyptus citriodora</i>	NING MENG AN YE
Lemon Leaf	T1493 <i>Citrus limon</i>	NING MENG YE
Lemon Pericarp	T1492 <i>Citrus limon</i>	NING MENG PI
Lemon Root	T1491 <i>Citrus limon</i>	NING MENG GEN
Lemongrass	T1939 <i>Cymbopogon citratus</i>	XIANG MAO
Lemonlike Citrus	T1494 <i>Citrus limonia</i>	LI MENG
Lemonlike Citrus Leaf	T1497 <i>Citrus limonia</i>	LI MENG YE
Lemonlike Citrus Pericarp	T1496 <i>Citrus limonia</i>	LI MENG PI
Lemonlike Citrus Root	T1495 <i>Citrus limonia</i>	LI MENG GEN
Leontice*	T3745 <i>Leontice leontopetalum</i>	HUA BAN SHI ZU CAO

Leopard Leather Mushroom*; Tengutake (in Japanese)	T0384 <i>Amanita pantherina</i>	BAO BAN E GAO
Leopard Plant	T3801 <i>Ligularia clivorum</i>	SHAN GANG TUO WU
Leprieur Caloglossa Frond	T1122 <i>Caloglossa leprieurii</i>	ZHE GU CAI
Leprous Tree	T3560 <i>Jatropha curcas</i>	MA FENG SHU
Lepto Peel Cucumber*	T1875 <i>Cucumis leptodermus</i>	BO PI HUANG GUA
Leschenault Mahonia	T4069 <i>Mahonia leschenaultii</i>	LAI SHI NA TE SHI DA GONG LAO
Lesser Galangal	T0359 <i>Alpinia officinarum</i>	GAO LIANG JIANG
Lettuce Ulva Frond	T6599 <i>Ulva lactuca</i>	SHI CHUN
Levant Cotton	T3055 <i>Gossypium herbaceum</i>	MIAN HUA
Levant Cotton Oil	T3057 <i>Gossypium herbaceum</i>	MIAN ZI YOU
Levant Cotton Root	T3056 <i>Gossypium herbaceum</i>	MIAN HUA GEN
Liangshan Rabdosia	T3504 <i>Isodon liangshanica</i>	LIANG SHAN XIANG CHA CAI
Liaodong Aralia	T0572 <i>Aralia elata</i>	LIAO DONG CONG MU
Liaodong Aralia Leaf*	T0573 <i>Aralia elata</i>	LIAO DONG CONG MU YE
Liberian Coffee	T1610 <i>Coffea liberica</i>	DA GUO KA FEI
Licorice	T3013 <i>Glycyrrhiza glabra</i>	GUANG GUO GAN CAO
Lidded Cleistocalyx	T1544 <i>Cleistocalyx operculatus</i>	SHUI RONG
Light Larkspur*	T2069 <i>Delphinium corumbosum</i>	GUANG FEI YAN CAO
Light-hoar Tickclover*	T2128 <i>Desmodium canum</i>	DAN HUI BAI SHAN MA HUANG
Lightyellow Snapweed	T3413 <i>Impatiens nolitangere</i>	SHUI JIN FENG
Lightyellow Sophora	T6031 <i>Sophora flavescens</i> [Syn. <i>Sophora angustifolia</i>]	KU SHEN
Lightyellow Sophora Seed	T6032 <i>Sophora flavescens</i> [Syn. <i>Sophora angustifolia</i>]	KU SHEN SHI
Lignum-vitae	T3067 <i>Guajacum officinale</i>	YU CHUANG MU
Lihsien Rabdosia	T3505 <i>Isodon lihsienensis</i>	LI XIAN XIANG CHA CAI
Likiang Ephedra	T2372 <i>Ephedra likiangensis</i>	LI JIANG MA HUANG
Likiang Hogfennel	T4756 <i>Peucedanum govanianum</i> var. <i>bicolor</i>	LI JIANG QIAN HU
Likiang Monkshood*	T0096 <i>Aconitum forrestii</i> [Syn. <i>Aconitum likiangense</i>]	LI JIANG WU TOU
Likiang Skullcap	T5841 <i>Scutellaria likiangensis</i>	LI JIANG HUANG QIN
Lilac Chastetree	T6782 <i>Vitex agnuscastus</i>	SUI HUA MU JING
Lilac Daphne	T2023 <i>Daphne genkwa</i>	YUAN HUA
Lilac Daphne Root	T2024 <i>Daphne genkwa</i>	YUAN HUA GEN
Lilac Pink	T2145 <i>Dianthus superbus</i>	QU MAI
Lily Magnolia Bark	T4042 <i>Magnolia liliflora</i>	ZI YU LAN PI
Lily Magnolia Buds	T4041 <i>Magnolia liliflora</i>	XIN YI
Lily of Valley	T1649 <i>Convallaria keiskei</i> [Syn. <i>Convallaria majalis</i>]	LING LAN
Limbate Otostegia	T4559 <i>Otostegia limbata</i>	YOU YAN AO TUO SI TE CAO
Lime	T1466 <i>Citrus aurantifolia</i>	LAI MENG
Limited Alstonia*	T0373 <i>Alstonia restricta</i>	YOU XIAN YA JIAO SHU
Limoncillo (in Costa Rica)	T5965 <i>Siparuna pauciflora</i>	SHAO HUA XI PA MU
Limpricht Begonia	T0890 <i>Begonia limprichtii</i>	JI YE QIU HAI TANG
Linden Hibiscus	T3248 <i>Hibiscus tiliaceus</i>	HUANG JIN
Linden Viburnum	T6735 <i>Viburnum dilatatum</i>	JIA MI
Lindenleaf Tickclover*	T2135 <i>Desmodium tiliaefolium</i>	DUAN YE SHAN MA HUANG
Lindley Eupatorium	T2565 <i>Eupatorium lindleyanum</i>	CHENG GAN SHENG MA
Lindley Pleurospermum	T5020 <i>Pleurospermum lindleyanum</i>	TIAN SHAN LING ZI QIN
Linea Andrographis*	T0455 <i>Andrographis lineata</i>	TIAO WEN CHUAN XIN LIAN
Linear Brake	T5293 <i>Pteris linearis</i>	XIAN YU FENG WEI JUE
Linear Croton*	T1850 <i>Croton linearis</i>	XIAN YE BA DOU
Linear Koelipinia	T3634 <i>Koelipinia linearis</i>	XIE WEI JU
Linear Stonecrop	T5856 <i>Sedum lineare</i> [Syn. <i>Sedum obtuso-lineare</i>]	FO JIA CAO
Linearisepal Goldthread*	T1668 <i>Coptis linearisepala</i>	XIAN E HUANG LIAN
Linearleaf Gentian	T2921 <i>Gentiana manshurica</i>	DONG BEI LONG DAN

Linearleaf Inula	T3434 <i>Inula linariaefolia</i>	XIAN YE XUAN FU HUA
Linearleaf Thistle	T1450 <i>Cirsium lineare</i>	TIAO YE JI
Linearleaf Thorowax	T1055 <i>Bupleurum angustissimum</i>	XIAN YE CHAI HU
Linearsegmented Corydalis	T1721 <i>Corydalis linearoides</i>	TIAO LIE HUANG JIN
Linearstripe Rabdosia	T3506 <i>Isodon lophanthoides</i>	XIAN WEN XIANG CHA CAI
Linearstripe Rabdosia	T3507 <i>Isodon lophanthoides</i> [Syn. <i>Rabdosia lophanthoides</i> ; <i>Hyssopus lophanthoides</i> ; <i>Plectranthus striatus</i> ; <i>Isodon striatus</i>]	XI HUA XIAN WEN XIANG CHA CAI
Lingnan Rhododendron*	T5513 <i>Rhododendron mariae</i>	LING NAN DU JUAN
Lingual Forest-in Casearia*	T1225 <i>Casearia sylvestris</i> var. <i>lingua</i>	SHE XING LIN SHENG JIAO GU CUI
Lipp Amberboa*	T0392 <i>Amberboa lippii</i>	LI PU PO JU
Liquor	T3869 Liquor	JIU Liquor
Liriope	T4507 <i>Ophiopogon japonicus</i>	MAI DONG
Little Bleedingheart*	T2153 <i>Dicentra pusilla</i>	XI XIAO HE BAO MU DAN
Little Groundcherry	T4851 <i>Physalis minima</i>	TIAN PAO ZI
Little Peganum	T4689 <i>Peganum nigellastrum</i>	LUO TUO HAO
Littleconical Rabdosia	T5389 <i>Rabdosia coetsa</i>	XI ZHUI XIANG CHA CAI
Littleflower Plumbagella	T5026 <i>Plumbagella micrantha</i>	JI WA CAO
Littlefruit Jujube	T6923 <i>Zizyphus oenoplia</i>	XIAO GUO ZAO
Littlefruit Lyonia	T3992 <i>Lyonia ovalifolia</i> var. <i>elliptica</i>	XIAO GUO NAN ZHU
Littlehead Sneezeweed	T3139 <i>Helenium microcephalum</i>	XIAO TOU DUI XIN JU
Littleleaf Common Jasminorange	T4325 <i>Murraya paniculata</i> var. <i>exotica</i>	XIAO YE JIU LI XIANG
Littleleaf Horsebrush	T6355 <i>Tetradymia glabrata</i>	GUANG SI SHI JU
Littleleaf Indianmulberry	T4284 <i>Morinda parvifolia</i>	BAI YAN TENG
Littleleaf Lemnaphyllum Herb	T3736 <i>Lemnaphyllum microphyllum</i>	LUO YAN CAO
Littleleaf Starbush*	T6571 <i>Turraea parvifolia</i>	XIAO YE DU LIAN
Littleleaf Stephania	T6135 <i>Stephania succifera</i>	XIAO YE DI BU RONG
Littoral Chastetree*	T6784 <i>Vitex littoralis</i>	BIN MU JING
Littoral Devilpepper*	T5436 <i>Rauwolfia littoralis</i>	HAI BIN LUO FU MU
Littoral Verbena*	T6708 <i>Verbena littoralis</i>	HAI BIAN MA BIAN CAO
Liukiu Ophiorrhiza*	T4512 <i>Ophiorrhiza liukiuensis</i>	LIU QIU SHE GEN CAO
Liverwort	T2819 <i>Gackstroemia decipiens</i>	
Liverwort <i>Tritomaria polita</i>	T6547 <i>Tritomaria polita</i>	
Liverwort <i>Tylimanthus renifolius</i>	T6575 <i>Tylimanthus renifolius</i>	
Lizard's-tail	T5749 <i>Saururus cernuus</i>	MEI ZHOU SAN BAI CAO
Lobb Poppy*	T2496 <i>Eschscholzia lobbii</i>	LUO BO HUA LING CAO
Lobed Kudzuvine Root	T5313 <i>Pueraria lobata</i> [Syn. <i>Pueraria thunbergiana</i> ; <i>Pueraria pseudohirsuta</i>]	GE GEN
Lobedfruit Tacca	T6276 <i>Tacca plantaginea</i> [Syn. <i>Schizocapsa plantaginea</i>]	LIE GUO SHU
Lobedleaf Morningglory*	T3449 <i>Ipomoea hederacea</i>	LIE YE QIAN NIU
Lobedleaf Pharbitis Seed	T4779 <i>Pharbitis nil</i>	QIAN NIU ZI
Lobelia Falsehellebore*	T6693 <i>Veratrum album</i> var. <i>lobelianum</i> [Syn. <i>Veratrum lobelianum</i>]	BAN BIAN LIAN ZHUANG LI LU
Loblolly Pine, Old Field Pine	T4927 <i>Pinus taeda</i>	TAI DA SONG
Locklebur-like Amomum	T0420 <i>Amomum xanthioides</i>	SUO SHA MI
Loddiges Dendrobium	T2105 <i>Dendrobium loddigesii</i>	MEI HUA SHI HU
Long Acuminate Leaves Gaultheria	T2892 <i>Gaultheria griffithiana</i>	WEI YE BAI ZHU
Long Calotrope*	T1136 <i>Calotropis procera</i>	CHANG NIU JIAO GUA
Long Inflorescence Tephrosia	T6337 <i>Tephrosia noctiflora</i>	YE HUA HUI MAO DOU
Long Lemongrass*	T1946 <i>Cymbopogon procerus</i>	CHANG XIANG MAO
Long Pepper	T4953 <i>Piper longum</i>	BI BA
Long Pepper Root	T4954 <i>Piper longum</i>	BI BA GEN
Long Stephania	T6131 <i>Stephania longa</i>	FEN JI DU
Long Usnea Filament	T6654 <i>Usnea longissima</i>	SONG LUO
Longan Leaf	T2627 <i>Euphoria longan</i> [Syn. <i>Dimocarpus longan</i>]	LONG YAN YE

Longbeak Eucalyptus	T2502 <i>Eucalyptus camaldulensis</i>	CHI AN
Longbract Cattail Pollen	T6584 <i>Typha angustata</i>	PU HUANG
Longcalyx Pink*	T2146 <i>Dianthus superbus</i> var. <i>longicalycinus</i>	CHANG E QU MAI
Longeared Epigynum	T2386 <i>Epigynum auritum</i>	SI MAO TENG
Long-eared Pseudophegopteris	T5259 <i>Pseudophegopteris subaurita</i>	GUANG NANG ZI BING JUE
Longflower Bloomdaisy	T4735 <i>Pertya glabrescens</i>	JIN WU MAO SAO JU
Longflower Galipea*	T2828 <i>Galipea longiflora</i>	CHANG HUA TU LA SHU
Longflower Gambirplant*	T6624 <i>Uncaria longiflora</i>	CHANG HUA GOU TENG
Longflower Kopsia*	T3642 <i>Kopsia longiflora</i>	CHANG HUA RUI MU
Longflower Laurentia	T3541 <i>Isotoma longiflora</i> [Syn. <i>Laurentia longiflora</i>]	TONG BAN CAO
Longflower Lily	T3835 <i>Lilium longiflorum</i>	SHE XIANG BAI HE
Longflower Valerian*	T1313 <i>Centranthus longiflorus</i> ssp. <i>longiflorus</i>	CHANG HUA XIE CAO
Longfruit Hemsleya	T3205 <i>Hemsleya dolichocarpa</i>	CHANG GUO XUE DAN
Longhair Milkwort	T5090 <i>Polygala wattersii</i>	CHANG MAO ZI YUAN ZHI
Longhairy Michelia*	T4213 <i>Michelia lanuginosa</i>	CHANG MAO HAN XIAO
Long-headed Poppy	T4626 <i>Papaver dubium</i>	CHANG GUO YING SU
Longleaf Carpesium	T1213 <i>Carpesium longifolium</i>	CHANG YE TIAN MING JING
Longleaf Cryptocarya*	T1863 <i>Cryptocarya longifolia</i>	CHANG YE HOU KE GUI
Longleaf Debregeasia	T2056 <i>Debregeasia longifolia</i>	CHANG YE SHUI MA
Longleaf Goniiothalamus	T3045 <i>Goniiothalamus gardneri</i>	CHANG YE GE NA XIANG
Longleaf Groundsel*	T5891 <i>Senecio longifolius</i>	CHANG YE QIAN LI GUANG
Longleaf Mammea*	T4095 <i>Mammea longifolia</i>	CHANG YE MAN MI PING GUO
Longleaf Periwinkle*	T1268 <i>Catharanthus longifolius</i>	CHANG YE CHANG CHUN HUA
Longleaf Podocarpus Leaf	T5043 <i>Podocarpus macrophyllus</i>	LUO HAN SONG YE
Longleaf Podocarpus Seed	T5042 <i>Podocarpus macrophyllus</i>	LUO HAN SONG SHI
Longleaf Rabdosisa	T5400 <i>Rabdosisa stracheyi</i>	CHANG YE XIANG CHA CAI
Longleaf Speedwell	T6725 <i>Veronica longifolia</i>	CHANG WEI PO PO NA
Longleaf Tansy	T6292 <i>Tanacetum longifolium</i>	CHANG YE AI JU
Long-leaved Pine	T4919 <i>Pinus palustris</i>	CHANG YE SONG
Longlived Leaf	T6816 <i>Welwitschia mirabilis</i>	BAI SUI YE
Longpedicel Chinese Buscherry Seed	T5225 <i>Prunus japonica</i> var. <i>nakaii</i>	CHANG GENG YU LI REN
Longpedicel Holly	T3395 <i>Ilex pedunculosa</i>	CHANG GENG DONG QING
Longpeduncle Kadsura	T3619 <i>Kadsura peltigera</i> [Syn. <i>Kadsura longipedunculata</i>]	CHANG GENG NAN WU WEI ZI
Longpetal Vouacapoua*	T6805 <i>Vouacapoua macropetala</i>	CHANG HUA BAN KE YA SHU
Longpetiole Juniper*	T3590 <i>Juniperus macropoda</i>	CHANG BING YUAN BAI
Longradiate Angelica*	T0488 <i>Angelica longeradiata</i>	CHANG BIAN HUA DANG GUI
Longroot Onion	T0324 <i>Allium victorialis</i>	GE CONG
Long-rostrate Eucalyptus*	T2518 <i>Eucalyptus rostrata</i>	CHANG HUI AN
Longshen Rabdosisa	T3510 <i>Isodon lungshengensis</i>	LONG SHENG XIANG CHA CAI
LongspikeCroton*	T1851 <i>Croton macrostachys</i>	CHANG SUI BA DOU
Longspur Corydalis*	T1722 <i>Corydalis longicalcarata</i>	CHANG JU YAN HU SUO
longstalk Gynostemma	T3084 <i>Gynostemma longipes</i>	CHANG GENG JIAO GU LAN
Longstalk Pepper*	T4969 <i>Piper sulvaticum</i>	CHANG BING HU JIAO
Longstalk Plumyew*	T1321 <i>Cephalotaxus harringtonia</i> var. <i>drupacea</i>	CHANG GENG CU FEI
Longstamen Onion	T0316 <i>Allium macrostemon</i>	XIE BAI
Longstyle Lindelofia	T3846 <i>Lindelofia stylosa</i>	MING XIAN HUA ZHU CHANG ZHU
Longstyle Meadowrue*	T6396 <i>Thalictrum longistylum</i>	LIU LI CAO
Long-tail Mulberry*	T4297 <i>Morus macroua</i>	CHANG ZHU TANG SONG CAO
Longthyrus Poisonnut*	T6171 <i>Strychnos dolichothyrsa</i>	NAI SANG
Longtube Daylily*	T3196 <i>Hemerocallis longituba</i>	CHANG HUA XU MA QIAN ZI
Longtube Ground Ivy	T2973 <i>Glechoma longituba</i>	CHANG GUAN XUAN CAO
Longtube Rabdosisa	T5393 <i>Rabdosisa longituba</i>	JIN XIAN CAO
		CHANG GUAN XIANG CHA CAI

Lopseed	T4830 <i>Phryma leptostachya</i>	LAO PO ZI ZHEN XIAN
Loquat	T2431 <i>Eriobotrya japonica</i>	PI PA
Loquat Leaf	T2433 <i>Eriobotrya japonica</i>	PI PA YE
Loquat Seed	T2432 <i>Eriobotrya japonica</i>	PI PA HE
Lotusleafung	T3231 <i>Hernandia sonora</i> [Syn. <i>Hernandia ovigera</i>]	LIAN YE TONG
Louis Vepris*	T6690 <i>Vepris louisii</i>	LU YI CI JU
Loureir Cinnamon*	T1442 <i>Cinnamomum loureirii</i>	MU GUI
Low Ardisia*	T0597 <i>Ardisia humilis</i>	AI ZI JIN NIU
Low Bearberry*	T0587 <i>Arctostaphylos pumila</i>	AI SHENG XIONG GUO
Low Lily	T3836 <i>Lilium pumilum</i> [Syn. <i>Lilium tenuifolium</i>]	XI YE BAI HE
Low Meadowrue	T6399 <i>Thalictrum minus</i>	XIAO TANG SONG CAO
Low Rhubarb*	T5471 <i>Rheum nanum</i>	AI DA HUANG
Low Sagebrush	T0663 <i>Artemisia arbuscula</i>	BEI MEI AI HAO
Low Uvaria	T6660 <i>Uvaria chamae</i>	AN ZI YU PAN
Lowdaphne Stringbush	T6819 <i>Wikstroemia chamaedaphne</i>	HE SHUO YAO HUA
Love-lies-bleeding	T0387 <i>Amaranthus caudatus</i>	WEI SUI XIAN
Lovely Crinum*	T1793 <i>Crinum amabile</i>	SU MEN DA LA WEN SHU LAN
Lovely Gloriosa	T2995 <i>Gloriosa superba</i>	JIA LAN
Lovely Hemsleya	T3203 <i>Hemsleya amabilis</i>	LUO GUO DI
Lucid Ganoderma	T2848 <i>Ganoderma lucidum</i>	LING ZHI
Lucid Indianmulberry*	T4282 <i>Morinda lucida</i>	GUANG ZE BA JI
Lucid Meadowrue*	T6397 <i>Thalictrum lucidum</i>	TOU MING TANG SONG CAO
Lucid Monkshood*	T0113 <i>Aconitum lucidusculum</i>	GUANG ZE WU TOU
Lucidum Onychium	T4503 <i>Onychium lucidum</i>	LI BING JIN FEN JUE
Luederitz Acacia*	T0023 <i>Acacia luederitzii</i>	LE SHI JIN HE HUAN
Lunate Peltate Sundew	T2267 <i>Drosera peltata</i> var. <i>lunata</i>	MAO GAO CAI
Lushan Rabdosia*	T3521 <i>Isodon rubescens</i> var. <i>lushanensis</i>	LU SHAN XIANG CHA CAI
Lushien Rabdosia*	T3522 <i>Isodon rubescens</i> var. <i>lushiensis</i>	LU SHI DONG LING CAO
Luzon Viburnum*	T6737 <i>Viburnum luzonicum</i>	LV SONG JIA MI
Lychee	T3876 <i>Litchi chinensis</i>	LI ZHI
Lychee Seed	T3877 <i>Litchi chinensis</i>	LI ZHI HE
Lyrate Boesenbergia*	T0970 <i>Boesenbergia pandurata</i>	QIN ZHUANG AO CHUN JIANG
Lyrate Hemistepta	T3202 <i>Hemistepta lyrata</i> [Syn. <i>Hemistepta carthamoides</i> ; <i>Saussurea carthamoides</i>]	NI HU CAI
Lyrate-like Croton*	T1857 <i>Croton sublyratus</i>	JIN QIN ZHUANG BA DOU
MacLean Leek*	T0315 <i>Allium macleanii</i>	MAI KE LIN JIU
Macradenous Milkwort*	T5077 <i>Polygala macradenia</i>	DA XIAN YUAN ZHI
Macroanther Crinum*	T1802 <i>Crinum macrantherum</i>	DA HUA YAO WEN SHU LAN
Macrocalyx Ochna Bark*	T4466 <i>Ochna macrocalyx</i>	CHANG E JIN LIAN MU PI
Macropodous Daphniphyllum	T2033 <i>Daphniphyllum macropodum</i>	JIAO RANG MU
Madagascar Evodia*	T2642 <i>Evodia madagascariensis</i>	MA DAO CHOU TAN
Madagascar Hani-wood*	T3110 <i>Harungana madagascariensis</i>	MA DAO HA NI MU
Madagascar Periwinkle	T1271 <i>Catharanthus roseus</i> [Syn. <i>Vinca rosea</i> ; <i>Lochera rosea</i>]	CHANG CHUN HUA
Madagascar Swartzia*	T6211 <i>Swartzia madagascariensis</i>	MA DAO SI WO CI DOU
Madder	T5584 <i>Rubia tinctorum</i>	YANG QIAN CAO
Madonna Lily	T3833 <i>Lilium candidum</i>	QING LIANG BAI HE
Madrid Squill*	T5810 <i>Scilla maderensis</i> [Syn. <i>Autonoë madeirensis</i>]	MA DE LI MIAN ZAO ER
Madura Crotalaria*	T1825 <i>Crotalaria madurensis</i>	MA DU LA ZHU SHI DOU
Magnific Medinilla*	T4152 <i>Medinilla magnifica</i>	HONG WEI SUAN JIAO GAN
<i>Magnolia compressa</i>	T4037 <i>Magnolia compressa</i>	
Maidenhair Meadowrue	T6385 <i>Thalictrum flavum</i>	HUANG TANG SONG CAO
Maidenhair-like Meadowrue*	T6400 <i>Thalictrum minus</i> var. <i>adiantifolium</i>	TIE XIAN JUE YE TANG SONG CAO
Mainge Tailgrape*	T0654 <i>Artabotrys maingayi</i>	MAN GE YING ZHAO

Maire Alstonia	T0371 <i>Alstonia mairei</i>	YANG JIAO MIAN
Maire Yew	T6312 <i>Taxus mairei</i>	MEI LI HONG DOU SHAN
Maize	T6902 <i>Zea mays</i>	YU SHU SHU
Maize Bran	T6900 <i>Zea mays</i>	YU MI FU
Maize Style	T6901 <i>Zea mays</i>	YU MI XU
Malaba Bauhinia*	T0878 <i>Bauhinia malabarica</i>	MA LA BA YANG TI JIA
Malaba Pencilwood*	T2312 <i>Dysoxylum malabaricum</i>	MA LA BA JIAN MU
Malabanut	T0170 <i>Adhatoda vasica</i>	DA BO GU
Malabar Randia; Sping Randia	T5411 <i>Randia spinosa</i>	SHAN SHI LIU
Malabartree Euphorbia	T2624 <i>Euphorbia tirucalli</i>	LU YU SHU
Malacca Jewelvine*	T2120 <i>Derris malaccensis</i>	MA LIU JIA YU TENG
Malay Blumea	T0959 <i>Blumea lacera</i>	HONG TOU CAO
Malay Bushbeech	T3024 <i>Gmelina arborea</i>	YUN NAN SHI ZI
Malay Glycosmis	T3008 <i>Glycosmis pentaphylla</i>	JIU BING YE
Malaya Dieingtree*	T5729 <i>Saprosma scortechinii</i>	MA LAI BAN DAO RAN MU SHU
Malaysia Kopsia*	T3641 <i>Kopsia griffithii</i>	MA LAI XI YA RUI MU
Malaysian Box*	T1090 <i>Buxus malaiana</i>	MA LAI XI YA HUANG YANG
Malaytea Scurfpea	T5270 <i>Psoralea corylifolia</i>	BU GU ZHI
Male Fern Rhizome	T2281 <i>Dryopteris crassirhizoma</i>	GUAN ZHONG
Male-fern	T2282 <i>Dryopteris filix-mas</i>	MIAN MA
Mamiaho (in Malagasy language, Madagascar)	T0876 <i>Baseonema acuminatum</i>	
Mamme Apple	T4093 <i>Mammea americana</i>	MEI ZHOU MAN MI PING GUO
Manaplant Alhagi Sweet Secretion	T0302 <i>Alhagi pseudalhagi</i>	LUO TUO CI
Manchineel	T3252 <i>Hippomane mancinella</i>	MA FENG MU
Manchurian Ash	T2772 <i>Fraxinus mandshurica</i>	SHUI QU LIU
Manchurian Dutchmanspipe	T0632 <i>Aristolochia manshuriensis</i>	GUAN MU TONG
Manchurian Monkshood	T0139 <i>Aconitum variegatum</i>	BAN HUA WU TOU
Manchurian Rhododendron	T5515 <i>Rhododendron micranthum</i>	ZHAO SHAN BAI
Manchurian Sage*	T5689 <i>Salvia przewalskii</i> var. <i>mandarinorum</i>	ZI DAN SHEN
Manchurian Walnut	T3564 <i>Juglans mandshurica</i>	HU TAO QIU
Manchurian Wildginger	T0728 <i>Asarum heterotropoides</i> var. <i>mandshuricum</i>	LIAO XI XIN
Mango	T4099 <i>Mangifera indica</i>	MANG GUO
Mango Bark	T4101 <i>Mangifera indica</i>	MANG GUO SHU PI
Mango Leaf	T4102 <i>Mangifera indica</i>	MANG GUO YE
Mango Seed	T4100 <i>Mangifera indica</i>	MANG GUO HE
Mangosteen	T2863 <i>Garcinia mangostana</i>	DAO NIAN ZI
Mangrove Fruit	T5488 <i>Rhizophora mucronata</i>	HONG QIE DONG GUO
Manio	T5050 <i>Podocarpus nubigenus</i>	YUN WU LUO HAN SONG
Manipur Mahonia	T4070 <i>Mahonia manipurensis</i>	MAN NI PU ER SHI DA GONG LAO
Mann Garcinia*	T2864 <i>Garcinia mannii</i>	MAN TENG HUANG
Mansonia Heartwood	T4107 <i>Mansonia gagei</i>	MAN SUO NI YA XIN CAI
Manybracteole Bugle	T0270 <i>Ajuga remota</i>	YUAN JU JIN GU CAO
Many-cleft Cinquefoil	T5185 <i>Potentilla multifida</i>	DUO LIE WEI LING CAI
Manyflower Ash	T2769 <i>Fraxinus floribunda</i>	XI MA BAI LA SHU
Manyflower Bayberry*	T4345 <i>Myrica multiflora</i>	DUO HUA YANG MEI
Manyflower Christmasbush*	T0296 <i>Alchornea floribunda</i>	DUO HUA SHAN MA GAN
Manyflower Dysosma*	T2297 <i>Dysosma aurantiocaulis</i>	DUO HUA BA JIAO LIAN
Manyflower Fissistigma	T2736 <i>Fissistigma polyanthum</i>	HEI FENG TENG
Manyflower Garcinia	T2867 <i>Garcinia multiflora</i>	SHAN ZHU ZI
Manyflower Garcinia*	T2870 <i>Garcinia polyantha</i>	DUO HUA TENG HUANG
Manyflower Giantfennel*	T2705 <i>Ferula polyantha</i>	DUO HUA A WEI
Manyflower Glorybower Leaf	T1554 <i>Clerodendron cyrtophyllum</i>	LU BIAN QING

Manyflower Solomonseal	T5091 <i>Polygonatum cyrtonema</i> [Syn. <i>Polygonatum multiflorum</i>]	DUO HUA HUANG JING
Manyflower Starbush*	T6569 <i>Turraea floribunda</i>	DUO HUA U LIAN
Manyflower Tupelo*	T4458 <i>Nyssa sylvatica</i>	DUO HUA LAN GUO SHU
Manyflower Tylophora	T6580 <i>Tylophora floribunda</i>	WA ER TENG
Manyflower Wormwood	T0687 <i>Artemisia myriantha</i>	YI KUA
Manyfruit Idesia	T3387 <i>Idesia polycarpa</i>	SHAN TONG ZI
Manyleaf Meadowrue	T6387 <i>Thalictrum foliolosum</i>	MA WEI LIAN
Manyleaf Paris	T4648 <i>Paris polyphylla</i>	ZAO XIU
Manynerve Embelia	T2346 <i>Embelia oblongifolia</i>	MA GUI HUA
Manypetal Marshmarigold	T1138 <i>Caltha polypetala</i>	DUO BAN LV TI CAO
Manyprickle Acanthopanax	T0041 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]	CI WU JIA
Manyprickle Acanthopanax Leaf	T0043 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]	CI WU JIA YE
Manyprickle Acanthopanax Root-bark	T0042 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]	CI WU JIA PI
Manyraceme Sweetvetch	T3129 <i>Hedysarum polybotrys</i>	DUO XU YAN HUANG QI
Manyradiate Bailai's Chrysanthemum*	T0856 <i>Baileya pleniradiata</i>	DUO BIAN HUA BAI LAI SHI JU
Manyroot Monkshood	T0105 <i>Aconitum karakolicum</i>	DUO GEN WU TOU
Manyseed	T5069 <i>Polycarpon prostratum</i>	DUO JIA CAO
Manysperma Bitterleaf*	T6720 <i>Vernonia pogosperma</i>	BO GE BAN JIU JU
Manyspike Cordia*	T1678 <i>Cordia multispicata</i>	DUO SUI PO BU MU
Manyspike Knotweed	T5114 <i>Polygonum polystachyum</i>	DUO SUI LIAO
Manyspike Podocarpus Seed	T5052 <i>Podocarpus polystachyus</i>	DUO SUI LUO HAN SONG SHI
Manyspike Ragweed	T0404 <i>Ambrosia polystachya</i>	DUO SUI TUN CAO
Manyspike Tanoak Leaf	T3878 <i>Lithocarpus polystachyus</i>	DUO SUI SHI KE YE
Manyspiny Pricklyash*	T6883 <i>Zanthoxylum myriacanthum</i>	DA YE CHOU HUA JIAO
Manyspltted Monkshood	T0123 <i>Aconitum polyschistum</i>	DUO LIE WU TOU
Manytoothed Groundsel*	T5898 <i>Senecio polyodon</i>	DUO CHI QIAN LI GUANG
Manyumbell Giantfennel	T2698 <i>Ferula ferulaeoides</i>	DUO SAN A WEI
Many-veined Gambirplant*	T6626 <i>Uncaria nervosa</i>	DUO MAI GOU TENG
Marginate Microlepia	T4219 <i>Microlepia marginata</i>	BIAN YUAN LIN GAI JUE
Marginated Buckler-fern*	T2284 <i>Dryopteris marginata</i>	BIAN YUAN LIN MAO JUE
Marguerite	T1391 <i>Chrysanthemum frutescens</i>	MU TONG HAO
Marine Widgeonweed	T5616 <i>Ruppia maritime</i>	HAI SHENG CHUN MAN ZAO
Maritime Persimmon*	T2224 <i>Diospyros maritima</i>	HAI SHI
Marloth Aloe	T0341 <i>Aloe marlothii</i>	MA SHI LU HUI
Marschall Corydalis *	T1724 <i>Corydalis marschalliana</i>	MA CHANG LI ZI JIN
Marsh Horsetail	T2409 <i>Equisetum palustre</i>	GU JIE CAO
Marsh Parsley	T4767 <i>Peucedanum palustre</i>	ZHAO ZE QIAN HU
Marsh Ramalina*	T5405 <i>Ramalina paludosa</i>	ZHAO ZE SHU HUA
Marshmallow	T0381 <i>Althaea officinalis</i>	YAO SHU KUI
Marshmarigold-leaved Beesia	T0888 <i>Beesia calthaeifolia</i>	TIE PO LUO
Marshmarigold-like Goldenray*	T3800 <i>Ligularia calthaeifolia</i>	LV TI CAO YE TUO WU
Marshy Betony	T6092 <i>Stachys palustris</i>	GUANG YE SHUI SU
Marshy Euphorbia*	T2606 <i>Euphorbia palustris</i>	ZHAO SHENG DA JI
Mary Arthromeris	T0708 <i>Arthromeris mairei</i> [Syn. <i>Polypodium mairei</i>]	FENG WEI PA SHAN HU
Masaikai Caper	T1179 <i>Capparis masaikai</i>	MA BING LANG
Mashan Hogfennel	T4762 <i>Peucedanum mashanensis</i>	MA SHAN QIAN HU
Masson Pine Leaf:	T4916 <i>Pinus massoniana</i>	MA WEI SONG YE
Masters Elaeocarpus	T2329 <i>Elaeocarpus mastersii</i>	MA SI TE SI DU YING
Masters Pine	T4907 <i>Pinus armandii</i> var. <i>mastersiana</i>	TAI WAN GUO SONG
Masterwort	T4766 <i>Peucedanum ostruthium</i>	OU QIAN HU
Mastic Africa Juniper*	T3602 <i>Juniperus thurifera</i> var. <i>africana</i>	XIANG CI BAI FEI ZHOU BIAN
Mastic Juniper*	T3601 <i>Juniperus thurifera</i>	ZHONG
		RU XIANG BAI

Mastic-tree	T4980 <i>Pistacia lentiscus</i>	XIANG HUANG LIAN MU
Matai	T5055 <i>Podocarpus spicatus</i>	SUI HUA LUO HAN SONG
Matarique (in Mexico)	T5248 <i>Psacalium peltatum</i>	DUN ZHUANG LI JU
Matico Pepper	T4931 <i>Piper angustifolium</i>	XIA YE HU JIAO
Matteuccia Frond	T4127 <i>Matteuccia struthiopteris</i>	XIAO YE GUAN ZHONG
Mature Winter-vegetable Spiced Juice	T1006 <i>Brassica chinensis</i>	CHEN DONG CAI LU ZHI
Maxima Dutchmanspipe*	T0633 <i>Aristolochia maxima</i>	DA MA DOU LING
Maxima Marigold*	T6280 <i>Tagetes maxima</i>	ZUI DA WAN SHOU JU
Maximilian's Sunflower	T3149 <i>Helianthus maximiliani</i>	MA SHI XIANG RI KUI
Maximowicz Goldsaxifrage*	T1405 <i>Chrysosplenium maximowiczii</i>	MA SHI JIN YAO
Maximowicz Hawthorn	T1772 <i>Crataegus maximowiczii</i>	MAO SHAN ZHA
Maximowicz Rhubarb*	T5470 <i>Rheum maximowiczii</i>	MA SHI DA HUANG
May-apple	T4666 <i>Passiflora incarnata</i>	FEN HONG SE XI FAN LIAN
Mayweed	T4124 <i>Matricaria chamomilla</i> [Syn. <i>Matricaria recutita</i>]	MU JU
Meadaw Horsetail	T2410 <i>Equisetum pratense</i>	CAO WEN JING
Meadow Buttercup	T5412 <i>Ranunculus acris</i>	CAO DI MAO GEN
Meadow Cranesbill	T2944 <i>Geranium pratense</i>	CAO YUAN LAO GUAN CAO
Meadow Eyebright	T2628 <i>Euphrasia officinalis</i>	XIAO MI CAO
Meadow Gentian	T2906 <i>Gentiana campestris</i>	TIAN YE LONG DAN
Meadow Monkshood	T0138 <i>Aconitum umbrosum</i>	CAO DI WU TOU
Meadow Peavine	T3709 <i>Lathyrus pratensis</i>	MU DI XIANG WAN DOU
Meadow Saffron	T1616 <i>Colchicum autumnale</i>	QIU SHUI XIAN
Meadowrue-like Isopyrum	T3540 <i>Isopyrum thalictroides</i>	TANG SONG CAO ZHUANG BIAN GUO CAO
Media Yew	T6313 <i>Taxus media</i>	JIE ZHI HONG DOU SHAN
Media Yew (hybrid)	T6318 <i>Taxus x media</i>	ZA JIAO JIE ZHI HONG DOU SHAN
Medicinal Angelica*	T0489 <i>Angelica officinalis</i>	YAO YONG DANG GUI
Medicinal Betonica	T0929 <i>Betonica officinalis</i>	YAO SHUI SU
Medicinal Breynia Leaf*	T1026 <i>Breynia officinalis</i>	YAO YONG HEI MIAN SHEN YE
Medicinal Changium	T1353 <i>Changium myrmioides</i>	MING DANG SHEN
Medicinal Cinchona	T1429 <i>Cinchona officinalis</i>	ZHENG JI NA SHU
Medicinal Citron	T1498 <i>Citrus medica</i>	JU YUAN
Medicinal Citron Leaf	T1499 <i>Citrus medica</i>	JU YUAN YE
Medicinal Ervatamia	T2444 <i>Ervatamia heyneana</i>	HAI SHI GOU YA HUA
Medicinal Evodia	T2644 <i>Evodia rutaecarpa</i>	WU ZHU YU
Medicinal Fatheadtree	T4391 <i>Nauclea officinalis</i>	DAN MU
Medicinal Fumaria	T2807 <i>Fumaria officinalis</i>	YAO YONG QIU GUO ZI JIN
Medicinal Hyssop	T3384 <i>Hyssopus officinalis</i>	SHEN XIANG CAO
Medicinal Indianmulberry	T4283 <i>Morinda officinalis</i>	BA JI TIAN
Medicinal Kopsia	T3643 <i>Kopsia officinalis</i>	YUN NAN RUI MU
Medicinal Lavender*	T3728 <i>Lavandula officinalis</i>	YAO YONG XUN YI CAO
Medicinal Ligusticum	T1583 <i>Cnidium officinale</i> [Syn. <i>Ligusticum officinale</i>]	YAO YONG SHE CHUANG
Medicinal Padauk*	T5303 <i>Pterocarpus officinalis</i>	YAO YONG ZI TAN
Medicinal Rhubarb	T5472 <i>Rheum officinale</i>	DA HUANG
Medicinal Sage	T5682 <i>Salvia officinalis</i>	YAO YONG DAN SHEN
Medicinal Sage Leaf	T5683 <i>Salvia officinalis</i>	YAO YONG DAN SHEN YE
Medicine Terminalia	T6346 <i>Terminalia chebula</i>	HE ZI
Medicine Terminalia Leaf	T6347 <i>Terminalia chebula</i>	HE ZI YE
Medicinal Cyathula	T1924 <i>Cyathula officinalis</i>	CHUAN NIU XI
Mediterranean Brown Alga Dilophus ligulatus	T2183 <i>Dilophus ligulatus</i>	DI ZHONG HAI ZONG HAI ZAO
Mediterranean Coriaria	T1691 <i>Coriaria myrtifolia</i>	DI ZHONG HAI MA SANG
Mediterranean Cypress	T1899 <i>Cupressus sempervirens</i>	DI ZHONG HAI BAI MU

Mediterranean Euphorbia; Mediterranean Spurge	T2582 <i>Euphorbia characias</i>	DI ZHONG HAI DA JI
Mediterranean Mullein	T6704 <i>Verbascum sinuatum</i>	DI ZHONG HAI MAO RUI HUA
Medlar Barberry*	T0921 <i>Berberis zycium</i>	GOU QI XIAO BO
Medusa Saussurea	T5759 <i>Saussurea medusa</i>	SHUI MU XUE LIAN
Meiwa Kumquat	T2758 <i>Fortunella crassifolia</i>	JIN DAN
Mellea Armillaria Sporocarp	T0645 <i>Armillariella mellea</i>	ZHEN MO
Melliferous Sage*	T5678 <i>Salvia mellifera</i>	JU MI SHU WEI CAO
Membranous Casearia*	T1224 <i>Casearia membranacea</i>	MO ZHI JIAO GU CUI
Membranous Milkvetch	T0798 <i>Astragalus membranaceus</i>	HUANG QI
Mengzi Peperomia*	T4704 <i>Peperomia duclouxii</i>	MENG ZI CAO HU JIAO
Messania Sweetclover*	T4171 <i>Melilotus messanensis</i>	XI XI LI CAO MU XI
Metternich Rhododendron*	T5514 <i>Rhododendron metternichii</i> var. <i>hondoese</i>	MEI TE NI DU JUAN HUA
Mexican Ageratum	T0230 <i>Ageratum houstonianum</i>	XIONG ER CAO
Mexican Aster	T1753 <i>Cosmos bipinnata</i>	DA BO SI JU
Mexican Cypress*	T6306 <i>Taxodium mucronatum</i>	MO XI GE LUO YU SHAN
Mexican Pricklepoppy	T0610 <i>Argemone mexicana</i>	JI YING SU
Mexican Sunflower	T6470 <i>Tithonia tagiliflora</i>	MO XI GE XIANG RI KUI
Mexican Tea	T1361 <i>Chenopodium ambrosioides</i>	TU JING JIE
Mexico Glorybind*	T5551 <i>River corymbosa</i>	MO XI GE XUAN HUA
Mexico Sneezeweed*	T3138 <i>Helenium mexicanum</i>	MO XI GE DUI XIN JU
Mexico Wormwood*	T0684 <i>Artemisia mexicana</i> var. <i>angustifolia</i>	MO XI GE HAO
Mezereon	T2026 <i>Daphne mezereum</i>	OU YA RUI XIANG
Micranthine Corydalis*	T1725 <i>Corydalis micrantha</i>	XIAO HUA ZI JIN
Microcap Sage*	T5679 <i>Salvia microstegia</i>	XIAO GAI SHU WEI CAO
Microwhite White Quebracho*	T0775 <i>Aspidosperma subincanum</i>	WEI BAI BAI JIAN MU
Mikanioid Eupatorium*	T2566 <i>Eupatorium mikanioides</i>	WEI GAN JU ZE LAN
Mileen Swertia	T6226 <i>Swertia mileensis</i>	QING YE DAN
Milkweed	T0740 <i>Asclepias syriaca</i>	XU LI YA MA LI JIN
Milk-white Russula	T5620 <i>Russula delica</i>	MEI WEI HONG GU
Milky Gentian*	T2916 <i>Gentiana lactea</i>	RU BAI LONG DAN
Minima Micromelum*	T4224 <i>Micromelum minutum</i>	JI XIAO XIAO YUN XIANG MU
Minus Hard-fern*	T0951 <i>Blechnum minus</i>	XIAO WU MAO JUE
Minute Duckweed	T3739 <i>Lemna perpusilla</i>	XI MAI FU PING
Minwan Anisetree	T3405 <i>Illicium minwanense</i>	MIN WAN BA JIAO
Miquel Linden	T6458 <i>Tilia miqueliana</i>	PU TI SHU HUA
Mirifica Kudzuvine	T5315 <i>Pueraria mirifica</i>	GUO YE GE
Miscol Rosewood*	T2005 <i>Dalbergia miscolobium</i>	MI SI KE HUANG TAN
Mist flower	T2572 <i>Eupatorium rugosum</i>	ZHOU YE ZE LAN
Mistassini Primrose	T5200 <i>Primula mistassinica</i>	JIA NA DA BAO CHUN
Mitten Crab Chelae	T2435 <i>Eriocheir sinensis</i>	XIE KE
Mittschelich Poisonnut*	T6180 <i>Strychnos mittschelichii</i>	MI SHI MA QIAN ZI
Mocketprivet-like Oak	T5376 <i>Quercus phillyraeoides</i>	FEI LI GUI LI
Moderate Asiabell	T1600 <i>Codonopsis pilosula</i> var. <i>modesta</i> [Syn. <i>Codonopsis modesta</i>]	SU HUA DANG SHEN
Moellendorff Spikemoss	T5863 <i>Selaginella moellendorffii</i>	JIANG NAN JUAN BAI
Molniform Dendrobium*	T2106 <i>Dendrobium moniliforme</i>	XI JING SHI HU
Molly Jewelvine*	T2121 <i>Derris mollis</i>	MO LI YU TENG
Monarch-of-the-East	T5747 <i>Sauromatum guttatum</i>	KU BAO
Mongolian Adonis*	T0187 <i>Adonis mongolica</i>	MENG GU CE JIN ZHAN HUA
Mongolian Ammopiptanthus	T0414 <i>Ammopiptanthus mongolicus</i> [Syn. <i>Piptanthus mongolicus</i>]	SHA DONG QING
Mongolian Cymbabria	T1938 <i>Cymbabria mongolica</i>	GUANG YAO DA HUANG HUA
Mongolian Dandelion	T6301 <i>Taraxacum mongolicum</i>	PU GONG YING
Mongolian Ephedra	T2367 <i>Ephedra equisetina</i>	MU ZEI MA HUANG

Mongolian Jerusalem sage	T4810 <i>Phlomis mongolica</i>	MENG GU CAO SU
Mongolian Milkvetch	T0800 <i>Astragalus mongholicus</i>	MENG GU HUANG QI
Mongolian Mulberry	T4298 <i>Morus mongolica</i>	MENG SANG
Mongolian Oak	T5375 <i>Quercus mongolica</i>	MENG GU LI
Mongolian Saussurea*	T5760 <i>Saussurea mongolica</i>	MENG GU FENG MAO JU
Mongolian Snakegourd	T6510 <i>Trichosanthes kirilowii</i>	GUA LOU
Mongolian Snakegourd Root	T6512 <i>Trichosanthes kirilowii</i>	TIAN HUA FEN
Mongolian Snakegourd Seed	T6511 <i>Trichosanthes kirilowii</i>	GUA LOU ZI
Mongolian Spiraea	T6083 <i>Spiraea mongolica</i>	MENG GU XIU XIAN JU
Mongolian Wormwood	T0685 <i>Artemisia mongolica</i>	MENG GU HAO
Monochlamys Maidenhair	T0174 <i>Adiantum monochlamys</i>	DAN GAI TIE XIAN JUE
Monoleaf Atalantia*	T0815 <i>Atalantia monophylla</i>	DAN YE DONG FENG JU
Monoseed Honeylocust*	T2977 <i>Gleditsia monosperma</i>	DAN ZHONG ZAO JIA
Monoseed Wormwood*	T0686 <i>Artemisia monosperma</i>	DAN ZI HAO
Montana Chamomile*	T0522 <i>Anthemis cretica</i> ssp. <i>cretica</i> [Syn. <i>Anthemis montana</i>]	MENG DA NA CHUN HUANG JU
Montana Corydalis*	T1726 <i>Corydalis montana</i>	MENG DA NA ZI JIN
Montana Custardapple*	T0508 <i>Annona montana</i>	SHAN FAN LI ZHI
Montana Glycosmis*	T3007 <i>Glycosmis montana</i>	MENG DA NA SHAN XIAO JU
Montana Rue*	T5628 <i>Ruta montana</i>	MENG DA NA YUN XIANG
Montane Baliospermum	T0861 <i>Baliospermum montanum</i>	BAN ZI MU
Montane Germander*	T6363 <i>Teucrium montanum</i>	SHAN XIANG KE KE
Montane Larkspur	T2082 <i>Delphinium oreophilum</i>	XI SHAN CUI QUE
Montane Rabdosia	T3516 <i>Isodon oresbia</i>	SHAN DI XIANG CHA CAI
Monterey Cypress	T1897 <i>Cupressus macrocarpa</i>	DA GUO BAI MU
Monterey Pine	T4920 <i>Pinus radiata</i>	FU SHE SONG
Moon-carrot	T5933 <i>Seseli libanotis</i>	LI BA NEN XIE HAO
Moor Sideritis*	T5945 <i>Sideritis moorei</i>	MU ER DU MA CAO
Morrow Honeysuckle	T3915 <i>Lonicera morrowii</i>	MO LUO SHI REN DONG
Mother-of-pearl	T1804 <i>Cristaria plicata</i> ; <i>Hyriopsis cumingii</i>	ZHEN ZHU MU
Mountain Balsampear	T4266 <i>Momordica dioica</i>	SHAN KU GUA
Mountain Immortelle	T2471 <i>Erythrina poeppigiana</i>	SHAN DI CI TONG
Mountain Laurel	T3623 <i>Kalmia latifolia</i>	KUAN YE SHAN YUE GUI
Mountain Parsley	T4765 <i>Peucedanum oreoselinum</i>	SHAN QIAN HU
Mountain Podocarpus*	T5046 <i>Podocarpus montanus</i>	SHAN DI LUO HAN SONG
Mountain Sneezeweed*	T3135 <i>Helenium autumnale</i> var. <i>montanum</i>	SHAN DI DUI XIN JU
Mountain Spicy Tree	T3885 <i>Litsea cubeba</i>	CHENG QIE ZI
Mountain Tobacco	T0651 <i>Arnica montana</i>	SHAN JIN CHE
Mountain Yam	T2212 <i>Dioscorea tokoro</i>	SHAN BI XIE
Mountainous Garcinia	T2858 <i>Garcinia hombroniana</i>	SHAN FENG GUO
Mountjasmine Rue*	T5629 <i>Ruta oreojasme</i>	SHAN MO LI YUN XIANG
Moupin Dutchmanspipe	T0635 <i>Aristolochia moupinensis</i>	HUAI TONG
Mozambique Mayten*	T4137 <i>Maytenus mossambicensis</i>	MO SANG BI KE MEI DENG MU
Muchlovable Denrodium	T2104 <i>Dendrobium gratiosissimum</i>	BEI QIAO SHI HU
Mucosa Rollinia*	T5558 <i>Rollinia mucosa</i>	NIAN ZHI LUO LIN
Mucronate Glorybind*	T1652 <i>Convolvulus erinaceus</i>	JI XUAN HUA
Mucronated Jujube*	T6922 <i>Zizyphus mucronata</i>	JIAN YE ZAO
Mudpuppy	T4395 <i>Necturus maculosus</i>	BAN YUAN
Mugwort	T0706 <i>Artemisia vulgaris</i>	BEI AI
Muhul Myrrh tree*	T1637 <i>Commiphora mukul</i>	MU KU ER MO YAO
Mukitake (in Japanese)	T4617 <i>Panellus serotinus</i>	HOU SHU SHAN GU
Mullein Nightbrier Leaf	T6018 <i>Solanum verbascifolium</i>	YE YAN YE
Mulleinleaf Inula*	T3440 <i>Inula verbascifolia</i>	MAO RUI HUA YE TU MU XIANG
Multiflower White Quebracho*	T0767 <i>Aspidosperma multiflorum</i>	DUO HUA BAI JIAN MU

Multipistillate Spiderflower*	T1551 <i>Cleome icosandra</i>	DUO RUI BAI HUA CAI
Multiradiate	T2423 <i>Erigeron multiradiatus</i>	DUO SHE FEI PENG
Mung Bean Blister Beetle	T4008 <i>Lytta caraganae</i>	QING NIANG ZI
Mural Goosefoot*	T1364 <i>Chenopodium murale</i>	BI SHENG LI
Murasakishimeji (in Japanese)	T3766 <i>Lepista nuda</i>	ZI DING XIANG MO
Muricate Amberboa*	T0393 <i>Amberboa muricata</i>	AN BEI JU
Muriculate Eucheuma Frond	T2525 <i>Eucheuma muricatum</i>	QI LIN CAI
Murri Polyscias*	T5131 <i>Polyscias murrayi</i>	MO LEI NAN YANG SHEN
Muscicolous Woodbetony	T4682 <i>Pedicularis muscicola</i>	XIAN SHENG MA XIAN HAO
Musengerra Podocarpus	T5039 <i>Podocarpus gracilior</i>	XI LUO HAN SONG
Musenna Albizia	T0291 <i>Albizia anthelmintica</i>	QU CHONG HE HUAN
Mushroom	T0211 <i>Agaricus campestris</i>	MO GU
Musk-mallow	T0002 <i>Abelmoschus moschatus</i> [Syn. <i>Hibiscus abelmoschus</i>]	HUANG KUI
Muskmelon Fruit Pedicel	T1876 <i>Cucumis melo</i>	GUA DI
Muskroot	T0193 <i>Adoxa moschatellina</i>	WU FU HUA
Musky Yarrow	T0066 <i>Achillea moschata</i>	SHE XIANG SHI CAO
Mussaenda*	T4334 <i>Mussaenda hirsutissima</i>	YU YE JIN HUA
Mussot Swertia	T6227 <i>Swertia mussotii</i>	CHUAN XI ZHANG YA CAI
Mutable Magnolia*	T4043 <i>Magnolia mutabilis</i>	BIAN XING MU LAN
Myrrh	T1638 <i>Commiphora myrrha</i> [Syn. <i>Commiphora molmo</i>]	MO YAO
Myrtleleaf Heimia	T3130 <i>Heimia myrtifolia</i>	HUANG WEI
Nagai Podocarpus	T4346 <i>Myrica nagi</i> [Syn. <i>Podocarpus nagi</i>]	ZHU BAI
Nagai Podocarpus Root	T4347 <i>Myrica nagi</i> [Syn. <i>Podocarpus nagi</i>]	ZHU BAI GEN
Nakai Podocarpus	T5047 <i>Podocarpus nakaii</i>	TAI WAN LUO HAN SONG
Naked Leafyflower	T0999 <i>Bougainvillea glabra</i>	GUANG YE ZI HUA
Naked-caule Goldsaxifrage	T1406 <i>Chrysosplenium nudicaule</i>	ZANG YAO LUO JING JIN YAO
Nakedstamen Monkshood	T0099 <i>Aconitum gymnanthum</i>	LU RUI WU TOU
Nanchuan Bugbane*	T1423 <i>Cimicifuga nanchuanensis</i>	NAN CHUAN SHENG MA
Nandewa Cotton*	T3060 <i>Gossypium sturtianum</i> var. <i>nandewarence</i>	NAN DE WA MIAN
Nanling Hogfennel	T4761 <i>Peucedanum longshengens</i>	NAN LING QIAN HU
Nanmu	T4818 <i>Phoebe nanmu</i>	NAN MU
Nantou Begonia*	T0891 <i>Begonia nantoensis</i>	NAN TOU QIU HAI TANG
Nar Uvaria*	T6666 <i>Uvaria narum</i>	NA ER ZI YU PAN
Narrow Coriaria*	T1688 <i>Coriaria angustissima</i>	XIA MA SANG
Narrow Gambirplant*	T6606 <i>Uncaria attenuata</i>	XIA GOU TENG
Narrow Rough Star Thistle*	T1302 <i>Centaurea aspera</i> subsp. <i>stenophylla</i>	XIA YE CU CAO SHI CHE JU ub
Narrowbambooleaf Thorowax	T1067 <i>Bupleurum marginatum</i> var. <i>stenophyllum</i>	ZHAI ZHU YE CHAI HU
Narrowbract Goldenray	T3807 <i>Ligularia intermedia</i>	XIA BAO TUO WU
Narrowflower Poisonnut	T6166 <i>Strychnos angustiflora</i>	NIU YAN MA QIAN
Narrowfruit Glycosmis Root*	T3010 <i>Glycosmis stenocarpa</i>	XIA GUO SHAN XIAO JU GEN
Narrowfruit Hogfennel*	T4772 <i>Peucedanum stenocarpum</i>	XIA GUO QIAN HU
Narrowhead Goldenray	T3815 <i>Ligularia stenocephala</i>	ZHAI TOU TUO WU
Narrowleaf Agave	T0217 <i>Agave angustifolia</i>	DUAN YE LONG SHE LAN
Narrowleaf Alstonia*	T0366 <i>Alstonia angustifolia</i>	XIA YE JI GU CHANG SHAN
Narrowleaf Angelica	T0476 <i>Angelica anomala</i>	XIA YE DANG GUI
Narrowleaf Cattail Pollen	T6585 <i>Typha angustifolia</i>	XIA YE XIANG PU
Narrowleaf Dittary*	T2165 <i>Dictamnus angustifolius</i>	XIA YE BAI XIAN
Narrowleaf Euphorbia	T2586 <i>Euphorbia esula</i> var. <i>cyparissoides</i>	XI YE DA JI
Narrowleaf Germander	T6366 <i>Teucrium polium</i>	HUI BAI SHI CAN
Narrowleaf Kadsura*	T3612 <i>Kadsura angustifolia</i>	XIA XIE NAN WU WEI ZI
Narrowleaf Lupin*	T3940 <i>Lupinus angustifolius</i>	AI SAI E BI YA YU SHAN DOU
Narrowleaf Magnoliavine*	T5794 <i>Schisandra lancifolia</i>	XIA YE WU WEI ZI
Narrowleaf Meadowrue	T6394 <i>Thalictrum incidum</i>	XIA YE TANG SONG CAO

Narrowleaf Paris	T4651 <i>Paris polyphylla</i> var. <i>stenophylla</i>	XIA YE CHONG LOU
Narrowleaf Rabdosia*	T3480 <i>Isodon angustifolia</i>	XIA YE XIANG CHA CAI
Narrowleaf Scabious	T5775 <i>Scabiosa comosa</i>	MENG GU SHAN LUO BO
Narrowleaf Screwtree	T3163 <i>Helicteres angustifolia</i>	SHAN ZHI MA
Narrowleaf Senna Leaf	T1230 <i>Cassia angustifolia</i>	FAN XIE YE
Narrowleaf Senna*	T1237 <i>Cassia leptophylla</i>	XIA YE JUE MING
Narrowleaf Spicebush	T3847 <i>Lindera angustifolia</i>	XIA YE SHAN HU JIAO
Narrowleaf Swertia	T6212 <i>Swertia angustifolia</i>	XIA YE ZHANG YA CAI
Narrowleaf Vetch	T6743 <i>Vicia angustifolia</i>	ZHAI YE YE WAN DOU
Narrowraceme Meadowrue	T6374 <i>Thalictrum atriplex</i>	XIA XU TANG SONG CAO
Naudin Citrullus*	T1462 <i>Citrullus naudinianus</i>	NA SHI XI GUA
Needle-leaf Fern*	T4026 <i>Macrothelypteris oligophlebia</i>	JIN JI WEI BA CAO GEN
Neem Tree	T0836 <i>Azadiractica indica</i>	YIN DU LIAN
Negundo Chastetree Leaf	T6788 <i>Vitex negundo</i>	HUANG JING YE
Negundo Chastetree Root	T6787 <i>Vitex negundo</i>	HUANG JING GEN
Negundo Chastetree Seed*	T6789 <i>Vitex negundo</i>	HUANG JING ZHONG ZI
Nemoriculous Greenstar*	T5067 <i>Polyalthia nemoralis</i>	LING SHUI AN LUO
Nepal Camphortree	T1440 <i>Cinnamomum glanduliferum</i>	YUN NAN ZHANG
Nepal Cowparsnip	T3219 <i>Heracleum nepalense</i>	NI BO ER DU HUO
Nepal Cranesbill	T2943 <i>Geranium nepalense</i>	NI BO ER LAO GUAN CAO
Nepal Dock	T5612 <i>Rumex nepalensis</i>	NI BO ER YANG TI
Nepal Kobresia*	T3633 <i>Kobresia nepalensis</i>	NI BO ER SONG CAO
Nepal Meconopsis	T4144 <i>Meconopsis nepaulensis</i>	NI BO ER LV RONG HAO
Nepal Monkshood	T0093 <i>Aconitum ferox</i>	NI BO ER WU TOU
Nepetaleaf Leontis	T3744 <i>Leontis nepetaefolia</i>	JING JIE YE SHI ER CAO
Nepeta-like Croton*	T1852 <i>Croton nepetaefolius</i>	SI JING JIE BA DOU
Nerrowleaf Peashrub	T1192 <i>Caragana stenophylla</i>	XIA YE JIN JI ER
Nervate Twayblade	T3863 <i>Liparis nervosa</i>	JIAN XUE QING
Nervous Brake	T5288 <i>Pteris cretica</i> var. <i>nervosa</i> [Syn. <i>Pteris nervosa</i>]	FENG WEI JUE
Netvein Goldenray	T3803 <i>Ligularia dictyoneura</i> [Syn. <i>Senecio dictyoneurus</i>]	WANG MAI TOU WU
New Beauty Saussurea*	T5761 <i>Saussurea neopulchella</i>	XIN MEI FENG MAO JU
New Caledonian Guioa*	T3072 <i>Guioa crenulata</i>	
New Zealand Flax	T4825 <i>Phormium tenax</i>	XIN XI LAN MA
New Zealand Kowhai	T6044 <i>Sophora tetraptera</i>	SI CHI HUAI
New Zealand liverwort	T3760 <i>Lepidolaena taylorii</i>	
New Zealand liverwort <i>Tylimanthus tenellus</i>	T6576 <i>Tylimanthus tenellus</i>	
New Zealand Podocarpus*	T5038 <i>Podocarpus ferrugineus</i>	XIN XI LAN LUO HAN SONG
Newcaledonian Coelospermum*	T1607 <i>Coelospermum billardieri</i>	XIN SU GE LAN XUE GUO MU
Nguang-Chum; Duang-Sum (local names)	T2954 <i>Getonia floribunda</i>	
Nickernut Caesalpinia	T1100 <i>Caesalpinia crista</i>	CI GUO SU MU
Nicola Centaurea*	T1306 <i>Centaurea nicolai</i>	NI GU LA SHI CHE JU
Nicotianflower Lobelia*	T3901 <i>Lobelia nicotianaefolia</i>	YAN CAO HUA SHAN GENG CAI
Niger Bean*	T3647 <i>Lablab niger</i>	BIAN DOU
Nigerian Satinwood	T2239 <i>Distemonanthus benthamianus</i>	NI RI LI YA LIANG RUI SU MU
Nightblooming Cestrum	T1338 <i>Cestrum nocturnum</i>	YE XIANG SHU
Nightjasmine	T4453 <i>Nyctanthes arbor-tristis</i>	YE HUA
Nigroline Garcinia*	T2868 <i>Garcinia nigrolineata</i>	HEI XIAN TIAO TENG HUANG
Nikoo Maple	T0050 <i>Acer nikoense</i>	MAO GUO QI
Nile Starbush*	T6570 <i>Turraea nilotica</i>	NI LUO HE JIN YIN LIAN
Nilgiris Helicia	T3162 <i>Helicia nilagirica</i>	SHEN LU SHAN LONG YAN
Nilotic Tamarisk*	T6289 <i>Tamarix nilotica</i>	NI LUO HE CHENG LIU
Ningguo Fritillary	T2789 <i>Fritillaria ningguoensis</i>	NING GUO BEI MU
Ningpo Figwort	T5828 <i>Scrophularia ningpoensis</i>	XUAN SHEN

Ningxia Fritillary	T2795 <i>Fritillaria taipaiensis</i> var. <i>ningxiaensis</i>	NING XIA BEI MU
Nippon Hawthorn	T1769 <i>Crataegus cuneata</i>	YE SHAN ZHA
Nippon Yam	T2203 <i>Dioscorea nipponica</i>	CHUAN LONG SHU YU
Nirur Leafflower*	T4840 <i>Phyllanthus niruri</i>	ZHU ZI CAO
Nitidleaf Croton	T1853 <i>Croton oblongifolius</i> [Syn. <i>Croton laevigatus</i>]	GUANG YE BA DOU
Nitidleaf Senna*	T1236 <i>Cassia laevigata</i> [Syn. <i>Cassia floribunda</i>]	GUANG YE JUE MING
Nitraria*	T4436 <i>Nitraria tangutorum</i>	BAI CI
Niu-Chang chih; Jang Jy (in Taiwan)	T0538 <i>Antrodia camphorata</i>	
Noble Arnebia*	T0650 <i>Arnebia nobilis</i>	GAO GUI JIA ZI CAO
Noble Artocarpus*	T0718 <i>Artocarpus nobilis</i>	GAO GUI BO LUO MI
Noble Dendrobium	T2107 <i>Dendrobium nobile</i>	SHI HU
Node Elephantfoot*	T2335 <i>Elephantus nudatus</i>	LUO DI DAN CAO
Node Ferulago*	T2713 <i>Ferulago nodosa</i>	JIE JIE LEI A WEI
Non-cirrose Citrullus*	T1461 <i>Citrullus ecirrhosus</i>	WU JUAN XU XI GUA
Non-stipe Eucalyptus*	T2500 <i>Eucalyptus apodophylla</i>	WU BING YE AN
North Sea Bryozoan	T2742 <i>Flustra foliacea</i>	BEI HAI XIAN TAI CHONG
North Viet-Nam Gambirplant	T6618 <i>Uncaria homomalla</i> [Syn. <i>Uruparia homomalla</i> ; <i>Uruparia tonkinensis</i> ; <i>Uruparia lanosa</i> var. <i>parvifora</i>]	BEI YUE GOU TENG
Northeast Clubmos*	T3293 <i>Huperzia miyoshiana</i>	DONG BEI SHI SHAN
Northeast Dim-flower Carpesium*	T1214 <i>Carpesium triste</i> var. <i>manshuricum</i>	DONG BEI AN HUA JIN WA ER
North-east Polypody*	T5126 <i>Polypodium virginianum</i>	DONG BEI DUO ZU JUE
Northeast Seriphidium	T5921 <i>Seriphidium finitum</i> [Syn. <i>Artemisia finita</i>]	DONG BEI HUI HAO
Northeast Spineginseng*, Tall Oplopanax	T4516 <i>Oplopanax elatus</i>	DONG BEI CI REN SHEN
Northeast Walnut*	T3565 <i>Juglans mandshurica</i> var. <i>sieboldiana</i>	DONG BEI HU TAO
Northern Angelica*	T0499 <i>Angelica ursina</i>	BEI FANG DANG GUI
Northern Catalpa	T1265 <i>Catalpa speciosa</i>	HUANG JIN SHU
Northern Dutchmanspipe	T0624 <i>Aristolochia contorta</i>	BEI MA DOU LING
Northern Dutchmanspipe Root	T0625 <i>Aristolochia contorta</i>	BEI MA DOU LING GEN
Northern Monkshood*	T0129 <i>Aconitum septentrionale</i>	BEI FANG WU TOU
Northern Pitch Pine	T4922 <i>Pinus rigida</i>	GANG SONG
Northern Wolfberry Root-bark*	T3959 <i>Lycium chinense</i> var. <i>potaninii</i>	BEI FANG GOU QI GEN PI
Northsea Angelica*	T0475 <i>Angelica acutiloba</i> var. <i>sugiyamae</i>	BEI HAI DANG GUI
Norway Maple	T0052 <i>Acer platanoides</i>	NUO WEI QI
Novel-Holland Pepper*	T4958 <i>Piper nove-hollandae</i>	XIN HE LAN HU JIAO
Nude Fern	T5269 <i>Psilotum nudum</i>	SHI SHUA BA
Nude-stem Eargrass*	T3127 <i>Hedyotis nudicaulis</i>	LUO JING ER CAO
Nudicaulous Grounsel Herb	T5893 <i>Senecio nudicaulis</i>	ZI BEI TIAN KUI CAO
Nummulite Rabdosia*	T5014 <i>Plectranthus nummularius</i>	YUAN BAN XIANG CHA CAI
Nutant Aussiepoplar*	T3274 <i>Homalanthus nutans</i>	XIA CHUI AO YANG
Nutgrass Galingale	T1978 <i>Cyperus rotundus</i>	XIANG FU
Nut-vomitive Poissonnut	T6184 <i>Strychnos nux-vomica</i>	MA QIAN ZI
Nyctaginiflower Petunia*	T4752 <i>Petunia nyctaginiflora</i>	ZI MO LI HUA BI DONG QIE
Oak-of-Cappadocia	T0403 <i>Ambrosia maritima</i>	YAN HAI TUN CAO
Oat	T0833 <i>Avena sativa</i>	YAN MAI
Oblique Fuscoporia*	T2818 <i>Fuscoporia obliqua</i>	HUA HE KONG JUN
Oblique Pinna Brake	T5296 <i>Pteris oshimensis</i>	XIE YU FENG WEI JUE
Oblong-leaf Borneol Oil-Resin*	T2276 <i>Dryobalanops oblongifolia</i>	JU YUAN YE LONG NAO XIANG
Oblongleaf Milkvetch*	T0799 <i>Astragalus miser</i> var. <i>oblongifolia</i>	JU YUAN YE HUANG QI
Oblong-leaved Barberry	T0910 <i>Berberis oblonga</i>	CHANG YUAN YE XIAO BO
Obovaleaf Dandelion Root	T6302 <i>Taraxacum obovatum</i>	DAO LUAN YE PU GONG YING GEN
Obovate Peony	T4586 <i>Paeonia obovata</i>	CAO SHAO YAO
Obovateleaf Lemnaphyllum*	T3737 <i>Lemnaphyllum microphyllum</i> var. <i>obovatum</i>	DAO LUAN YE FU SHI JUE
Obscure Devilpepper*	T5439 <i>Rauwolfia obscura</i>	GANG GUO LUO FU MU

Obtuse Cryptolepis*	T1865 <i>Cryptolepis obtusa</i>	DUN XING BAI YE TENG
Obtuse Eucalyptus Leaf*	T2503 <i>Eucalyptus camaldulensis</i> var. <i>obtusa</i>	DUN XING CHI AN YE
Obtuse Frangipani*	T5031 <i>Plumeria obtusa</i>	DUN XING JI DAN HUA
Obtuseleaf Achyranthes	T0072 <i>Achyranthes aspera</i> var. <i>indica</i>	DUN YE TU NIU XI
Obtuseleaf Cassia Bark, Wild Cinnamon Bark	T1434 <i>Cinnamomum bejolghota</i> [Syn. <i>Cinnamomum obtusifolium</i> ; <i>Laurus bejolghota</i>]	DUN YE GUI PI
Obtuseleaf Erycibe	T2449 <i>Erycibe obtusifolia</i>	DING GONG TENG
Obtuseleaf Euphorbia Latex*	T2604 <i>Euphorbia obtusifolia</i>	DUN YE DA JI XIANG JIANG
Obtuseleaf Euphorbia*	T2605 <i>Euphorbia obtusifolia</i> var. <i>obtusifolia</i>	DUN YE DA JI
Obtuseleaf Senna*	T1240 <i>Cassia obtusifolia</i>	DUN YE JUE MING
Obtuselobed Anemone	T0469 <i>Anemone obtusiloba</i>	DUN LIE YIN LIAN HUA
Occidental Cocklebur*	T6839 <i>Xanthium occidentale</i>	XI FANG CANG ER
Occidental Larkspur*	T2080 <i>Delphinium occidentale</i>	XI FANG CUI QUE
Ochotsk Corydalis	T1728 <i>Corydalis ochotensis</i>	HUANG ZI JIN
Octapistil Pokeweed*	T4866 <i>Phytolacca octandra</i>	AO ZHOU SHANG LU
Octet Wampee*	T1532 <i>Clausena anisata</i>	BA JIAO HUANG PI
Odollam Cerberustree*	T1331 <i>Cerbera odollam</i>	AO DAO LA MU HAI MANG GUO
Odorate Rosewood	T2008 <i>Dalbergia odorifera</i>	JIANG ZHEN XIANG
Odorous Hellebore*	T3184 <i>Helleborus odorus</i>	XIANG TIE KUAI ZI
Official Asparagus	T0752 <i>Asparagus officinalis</i>	XIAO BAI BU
Official Dandelion	T6303 <i>Taraxacum officinale</i>	YAO YONG PU GONG YING
Official Ervatamia*	T2445 <i>Ervatamia officinalis</i>	YAO YONG GOU YA HUA
Official Evodia	T2646 <i>Evodia rutaecarpa</i> var. <i>officinalis</i>	SHI HU ⁽³⁾
Official Magnolia	T4045 <i>Magnolia officinalis</i>	HOU PO
Official Primrose*	T5204 <i>Primula veris</i> [Syn. <i>Primula officinalis</i>]	HUANG HUA JIU LUN CAO
Oilpalm	T2328 <i>Elaeis guineensis</i>	YOU ZONG
Oiltea Camellia	T1146 <i>Camellia oleifera</i>	CHA ZI XIN
Oiltea Camellia Root-bark	T1147 <i>Camellia oleifera</i>	YOU CHA GEN PI
Oily Daphne*	T2029 <i>Daphne oleoides</i>	YOU RUI XIANG
Oily-leaf Milkveitch*	T0801 <i>Astragalus oleifolius</i>	YOU YE HUANG QI
Okamoto Maple	T0051 <i>Acer okamotoanum</i>	CHAO XIAN WU JIAO FENG
Okinawan Softcoral Clavularia viridis	T1542 <i>Clavularia viridis</i>	CHONG SHENG RUAN SHAN HU
Oldham Bamboo Shoot	T5961 <i>Sinocalamus oldhami</i>	LV SUN PIAN
Oldham Fissistigma	T2735 <i>Fissistigma oldhamii</i> [Syn. <i>Melodorum oldhamii</i>]	GUA FU MU
Oldham Gypsophila	T3090 <i>Gypsophila oldhamiana</i>	XIA CAO
Oldworld Arrowhead Corm	T5647 <i>Sagittaria sagittifolia</i>	CI GU
Oleanderleaf Allemanda	T0308 <i>Allemanda neriifolia</i>	HUANG CHAN
Olga Gentian*	T2923 <i>Gentiana olgae</i>	AO LIE GE LONG DAN
Olga Heliotrope*	T3176 <i>Heliotropium olgae</i>	AO ER JIA TIAN JIE CAI
Olibanum	T0994 <i>Boswellia carterii</i>	RU XIANG
Olive	T1165 <i>Canarium album</i>	QING GUO
Olive Ninenode*	T5277 <i>Psychotria oleoides</i>	YOU GAN LAN JIU JIE
Olive-green White Quebracho*	T0770 <i>Aspidosperma olivaceum</i>	HE LU BAI JIAN MU
Oliver Plumyew	T1322 <i>Cephalotaxus oliveri</i>	BI ZI CU FEI
Oliver Rosewood*	T2009 <i>Dalbergia oliveri</i>	AO LI FO HUANG TAN
Olivier Gentian*	T2924 <i>Gentiana olivieri</i>	AO SHI LONG DAN
Ombutree Pokeberry	T4862 <i>Phytolacca dioica</i>	A GEN TING SHANG LU
Omei Kudzuvine	T5316 <i>Pueraria omeiensis</i>	E MEI GE
Omei Meadowrue	T6402 <i>Thalictrum omeiense</i>	E MEI TANG SONG CAO
Omei Mountain Goldthread	T1669 <i>Coptis omeiensis</i>	E MEI YE HUANG LIAN
Omoto Nipponlily Root	T5557 <i>Rohdea japonica</i> [Syn. <i>Orontium japonicum</i>]	WAN NIAN QING GEN
Omphalo-fruit Common Jasminorange*	T4322 <i>Murraya omphalocarpa</i>	QI GUO JIU LI XIANG
Omphalo-fruit Jasminorange*	T4326 <i>Murraya paniculata</i> var. <i>omphalocarpa</i>	QI GUO QIAN LI XIANG

Omphalos Parmelia*	T4657 <i>Parmelia saxatilis</i> var. <i>omphalodes</i>	QI SHI HUA
One Sided Racemes Leucothoe	T3784 <i>Leucothoe grayana</i>	MU LI LU
Oneseed Ephedra	T2375 <i>Ephedra monosperma</i>	DAN ZI MA HUANG
<i>Onychium auratum</i>	T4501 <i>Onychium auratum</i>	
Oolong Tea	T1155 <i>Camellia sinensis</i> var. <i>viridis</i>	WU LONG CHA
Opium	T4635 <i>Papaver somniferum</i>	YA PIAN
Opium Poppy	T4636 <i>Papaver somniferum</i>	YING SU
Opium Poppy Pericarp	T4637 <i>Papaver somniferum</i>	YING SU KE
Opposite Poisonnut*	T6169 <i>Strychnos decussata</i>	DUI SHENG MA QIAN
Oppositeleaf Fig	T2720 <i>Ficus hispida</i>	DUI YE RONG
Oppositeleaf Goldsaxifrage*	T1407 <i>Chrysosplenium oppositifolium</i>	DUI YE JIN YAO
Oppositeleaf Rhodiola	T5500 <i>Rhodiola subopposita</i>	HU SHENG HONG JING TIAN
Orange Daylily	T3193 <i>Hemerocallis fulva</i>	XUAN CAO GEN
Orange Lycoris	T3987 <i>Lycoris sanguinea</i>	TIE SE JIAN
Orange Magnoliavine	T5802 <i>Schisandra sphenanthera</i>	HUA ZHONG WU WEI ZI
Orange Monkeyflower*	T4251 <i>Mimulus aurantiacus</i>	JU SE GOU SUAN JIANG
Orange Mullein	T6702 <i>Verbascum phlomoides</i>	JU SE MAO RUI HUA
Orange Poppy*	T4622 <i>Papaver auranticum</i>	JU HUANG YING SU
Orange Stonecrop	T5855 <i>Sedum kamschaticum</i>	HENG GEN FEI CAI
Orange-ball-tree	T1047 <i>Buddleja globosa</i>	QIU HUA ZUI YU CAO
Orangeeye Butterflybush	T1046 <i>Buddleja davidii</i>	DA YE ZUI YU CAO
Oregon Alder	T0329 <i>Alnus oregana</i>	AO LEI TONG QI MU
Oregon Bleedingheart	T2151 <i>Dicentra oregana</i>	E LE GANG HE BAO MU DAN
Oregon-grape	T4054 <i>Mahonia aquifolium</i>	JIAN YE SHI DA GONG LAO
Oreintal Consolida*	T1647 <i>Consolida orientalis</i>	DONG FANG FEI YAN CAO
Oriental Bittersweet	T1288 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]	NAN SHE TENG
Oriental Bittersweet Fruit	T1291 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]	NAN SHE TENG GUO
Oriental Bittersweet Leaf	T1290 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]	NAN SHE TENG YE
Oriental Bittersweet Root	T1289 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]	NAN SHE TENG GEN
Oriental Blechnum Frond	T0952 <i>Blechnum orientale</i>	WU MAO JUE
Oriental Blueberry Fruit	T6670 <i>Vaccinium bracteatum</i>	NAN ZHU ZHI
Oriental Buckthorn	T5455 <i>Rhamnus crenata</i>	LI LA GEN
Oriental Buckthorn	T5456 <i>Rhamnus crenatus</i>	HUANG YAO
Oriental Chain Fern	T6831 <i>Woodwardia orientalis</i>	DONG FANG GOU JI
Oriental Cocklebur*	T6840 <i>Xanthium orientale</i>	DONG FANG CANG ER
Oriental Ervatamia*	T2446 <i>Ervatamia orientalis</i>	DONG FANG GOU YA HUA
Oriental Fatheadtree*	T4392 <i>Nauclea orientalis</i>	DONG FANG WU TAN
Oriental Foxglove*	T2176 <i>Digitalis orientalis</i>	DONG FANG YANG DI HUANG
Oriental Gambirplant*	T6627 <i>Uncaria orientalis</i>	DONG FANG GOU TENG
Oriental Germander	T6364 <i>Teucrium orientale</i>	DONG FANG XIANG KE KE
Oriental Henbane*	T3330 <i>Hyoscyamus orientalis</i>	DONG FANG TIAN XIAN ZI
Oriental Ostrich Fern	T4126 <i>Matteuccia orientalis</i>	DONG FANG JIA GUO JUE
Oriental Poppy	T4632 <i>Papaver orientale</i>	JIN DONG YING SU
Oriental Sesame (black seed)	T5927 <i>Sesamum indicum</i> [Syn. <i>Sesamum orientale</i>]	HEI ZHI MA
Oriental Sesame (white seed)	T5925 <i>Sesamum indicum</i> [Syn. <i>Sesamum orientale</i>]	BAI ZHI MA
Oriental Sesame Leaf	T5924 <i>Sesamum indicum</i>	HU MA YE
Oriental Sesame Root	T5923 <i>Sesamum indicum</i>	HU MA GEN
Oriental Stephania	T6119 <i>Stephania cepharantha</i>	BAI YAO ZI
Oriental Sweetgum Resin	T3868 <i>Liquidambar orientalis</i>	SU HE XIANG
Oriental Variegated Coralbean Bark	T2479 <i>Erythrina variegata</i> var. <i>orientalis</i>	HAI TONG PI
Oriental Waterplantain	T0303 <i>Alisma orientale</i> [Syn. <i>Alisma plantago-aquatica</i> var. <i>orientale</i>]	ZE XIE
Oriental Vismia*	T6780 <i>Vismia orientalis</i>	DONG FANG WEI SI MU
Orientvine	T5964 <i>Sinomenium acutum</i>	QING FENG TENG

Orris	T3458 <i>Iris florentina</i>	XI OU YUAN WEI
Osage Orange	T4022 <i>Maclura pomifera</i>	SANG CHENG
Oshiroishimeji (in Japanese)	T3993 <i>Lyophyllum connatum</i>	
Osmarien Broom*	T1990 <i>Cytisus osmariensis</i>	AO MA JIN QUE HUA
Osun Padauk*	T5304 <i>Pterocarpus osun</i>	E SUN ZI TAN
Oswegotea	T4269 <i>Monarda didyma</i>	MEI GUO BO HE
Otoba Nutmeg*	T4353 <i>Myristica otoba</i>	AO TUO ROU DOU KOU
Oval Kumquat	T2760 <i>Fortunella margarita</i>	JIN JU
Oval Kumquat Leaf	T2761 <i>Fortunella margarita</i>	JIN JU YE
Oval Periwinkle*	T1269 <i>Catharanthus ovalis</i>	LUAN YUAN CHANG CHUN HUA
Ovate Catalpa	T1262 <i>Catalpa ovata</i>	ZI MU
Ovate Catalpa Bast	T1261 <i>Catalpa ovata</i>	ZI BAI PI
Ovate Catalpa Fruit	T1263 <i>Catalpa ovata</i>	ZI SHI
Ovate Catalpa Leaf	T1264 <i>Catalpa ovata</i>	ZI YE
Ovateleaf Anemone	T0465 <i>Anemone begoniifolia</i>	LUAN YE YIN LIAN HUA
Ovateleaf Garcinia*	T2869 <i>Garcinia ovalifolia</i>	LUAN YE TENG HUANG
Ovateleaf Heliotrope*	T3177 <i>Heliotropium ovalifolium</i>	LUAN YE TIAN JIE CAI
Ovateleaf Holly	T3398 <i>Ilex rotunda</i>	JIU BI YING
Ovateleaf Knotweed	T5118 <i>Polygonum suffultum</i>	HONG SAN QI
Ovateleaf Mayten*	T4138 <i>Maytenus ovatus</i>	LUAN YE MEI DENG MU
Ovateleaf Pepper	T4933 <i>Piper attenuatum</i>	LUAN YE HU JIAO
Ovateleaf Rhododendron*	T5520 <i>Rhododendron ovatum</i> [Syn. <i>Rhododendron lamprophyllum</i> ; <i>Azalea ovata</i>]	MA YIN HUA
Ovateleaf Tylophora	T6582 <i>Tylophora ovata</i>	LUAN YE WA ER TENG
Ovate-leafThreevein Aster*	T0777 <i>Aster ageratoides</i> var. <i>ovatus</i>	LUAN YE SAN ZHE MAI ZI WAN
Ovatepetal Sandwort	T0609 <i>Arenaria kansuensis</i> var. <i>ovatipeatala</i>	LUAN BAN ZAO ZHUI
Ox Blood	T0991 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU XUE
Ox Brain	T0988 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU NAO
Ox Gall	T0984 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU DAN
Ox Kidney	T0990 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU SHEN
Ox Liver	T0986 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU GAN
Ox Lung	T0985 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU FEI
Ox Thyroid	T0992 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>	NIU YE
Oxford Ragwort	T5912 <i>Senecio squalidus</i>	NIU JIN QIAN LI GUANG
Oxhide Gelatin	T0982 <i>Bos taurus domesticus</i>	HUANG MING JIAO
Oxlip	T5198 <i>Primula elatior</i>	GAO BAO CHUN
Oxtail Greenbrier	T5981 <i>Smilax riparia</i>	NIU WEI CAI
Oyama Magnolia	T4050 <i>Magnolia sieboldii</i>	TIAN NV MU LAN
Oyster	T1768 <i>Crassostrea gigas</i>	MU LI
Oyster Meat	T4555 <i>Ostrea rivularis</i> ; <i>Ostrea talienwhanensis</i> ; <i>Ostrea gigas</i>	MU LI ROU
Pacific Gypsophila	T3091 <i>Gypsophila pacifica</i>	SHAN YIN CHAI HU
Pacific Wood Fern	T2285 <i>Dryopteris pacifica</i>	TAI PING YANG LIN MAO JUE
Pacific Yew	T6308 <i>Taxus brevifolia</i>	DUAN YE HONG DOU SHAN
Paene Milkwort*	T5079 <i>Polygala paenea</i>	PEI NI YUAN ZHI
Painted Fern	T0818 <i>Athyrium filix-femina</i>	TI GAI JUE
Pale Bittersweet	T1287 <i>Celastrus hypoleucus</i>	MIAN TENG
Pale Butterflybush	T1048 <i>Buddleja officinalis</i>	MI MENG HUA
Pale Corydalis	T1740 <i>Corydalis sempervirens</i>	CANG BAI ZI JIN
Pale Persicaria	T5109 <i>Polygonum nodosum</i>	JIE LIAO
Pale Russula*	T5622 <i>Russula ochroleuca</i>	HUANG BAI HONG GU
Pale Treebine*	T1454 <i>Cissus pallida</i>	CANG BAI FEN TENG
Palmerston Pitch Tree*	T0214 <i>Agathis palmerstoni</i>	PA SHI BEI KE SHAN
Panamanian Albizia*	T0290 <i>Albizzia adinocephala</i>	BA NA MA HE HUAN

Pangolin	T4106 <i>Manis pentadactyla</i>	CHUAN SHAN JIA
Paniculate Bolbostemma	T0971 <i>Bolbostemma paniculatum</i>	JIA BEI MU
Paniculate Crotalaria*	T1828 <i>Crotalaria paniculata</i>	YUAN ZHUI ZHU SHI DOU
Paniculate Goldraintree Flower	T3635 <i>Koelreuteria paniculata</i>	LUAN HUA
Paniculate Goldraintree Root-bark	T3636 <i>Koelreuteria paniculata</i>	LUAN SHU
Paniculate Hydrangea	T3306 <i>Hydrangea paniculata</i>	FEN TUAN HUA
Paniculate Microcos	T4217 <i>Microcos paniculata</i> [Syn. <i>Grewia microcos</i>]	PO BU YE
Paniculate Onosma	T4500 <i>Onosma paniculatum</i>	DIAN ZI CAO
Paniculate Ostodes*	T4554 <i>Ostodes paniculata</i>	YUAN ZHUI HUA YE LUN MU
Paniculate Spotflower	T6075 <i>Spilanthes acmella</i>	TIAN WEN CAO
Paniculate Swallowwort	T1959 <i>Cynanchum paniculatum</i>	XU CHANG QING
Paniculed Bittersweet Seed	T1292 <i>Celastrus paniculatus</i>	DENG YOU TENG ZI
Panniform Pyrrosia	T5355 <i>Pyrrosia drakeana</i>	ZHAN MAO SHI WEI
Paohsing Euonymus	T2543 <i>Euonymus mupinensis</i>	BAO XING WEI MAO
Paoshan Monkshood	T0080 <i>Aconitum bullatifolium</i> var. <i>homotrichum</i> [Syn. <i>Aconitum nagarum</i>]	BAO SHAN WU TOU
Papaya Fruit	T1205 <i>Carica papaya</i>	FAN MU GUA
Papaya Leaf	T1206 <i>Carica papaya</i>	FAN MU GUA YE
Paper Reed	T1977 <i>Cyperus papyrus</i>	ZHI SHA CAO
Paper-white Narcissus	T4377 <i>Narcissus papyraceus</i>	BAI SHUI XIAN
Papillose Box*	T1093 <i>Buxus papillosa</i>	DUO RU TOU HUANG YANG
Papua-New-Guinea Persimmon*	T2223 <i>Diospyros mafiensis</i>	BA BU YA XIN JI NEI YA SHI
Para Rubbertree	T3236 <i>Hevea brasiliensis</i>	XIANG JIAO SHU
Paradoxy Grape-hyacinth*	T4333 <i>Muscari paradoxum</i>	QI YI PU TAO FENG XIN ZI
Paraguay Tea	T3394 <i>Ilex paraguariensis</i>	BA LA GUI CHA
Parasite Scurrula	T3925 <i>Loranthus parasiticus</i> [Syn. <i>Loranthus chinensis</i> ; <i>Taxillus chinensis</i>]	SANG JI SHENG
Parchment-like Milky*	T3652 <i>Lactarius pergamenus</i>	SI YANG PI ZHI RU GU
Pardleather-like Mushroom	T3743 <i>Lentinus lepideus</i>	BAO PI GU
Parisshape Loosestrife	T4004 <i>Lysimachia paridiformis</i>	CHONG LOU PAI CAO
Parker Raspberry	T5594 <i>Rubus parkeri</i>	WU PAO ZI
Parmelia Lichen	T4656 <i>Parmelia saxatilis</i>	SHI HUA
Parqui Cestrum	T1339 <i>Cestrum parqui</i>	PA KE YE XIANG SHU
Parry Northern Mahonia	T4059 <i>Mahonia borealis</i>	PA LI BEI FANG SHI DA GONG LAO
Parvivesiculose Gulfweed*	T5739 <i>Sargassum parvivesiculosum</i>	XI NANG MA WEI ZAO
Pashi Pear Fruit	T5365 <i>Pyrus pashia</i>	CHUAN LI GUO
Pasific Mikania*	T4229 <i>Mikania mendocina</i>	TAI PING YANG JIA ZE LAN
Paspalum Ergot*	T1540 <i>Claviceps paspali</i>	QUE BAI MAI JIAO
Passionflower	T4663 <i>Passiflora caerulea</i>	XI FAN LIAN
Passionfruit	T4665 <i>Passiflora edulis</i>	JI DAN GUO
Pasture Gentian*	T2920 <i>Gentiana makinoi</i>	MU YE LONG DAN
Patentflower Monkshood	T0086 <i>Aconitum chasmanthum</i>	ZHAN HUA WU TOU
Patience Dock	T5614 <i>Rumex patientia</i>	NIU XI XI
Paucivitat Cowparsnip	T3218 <i>Heracleum moellendorffii</i> var. <i>paucivitatum</i>	ZOU MA QIN
Pawpaw	T0744 <i>Asimina triloba</i>	PAO PAO SHU
Pax Ash	T2774 <i>Fraxinus paxiana</i>	QIN LING BAI LA SHU
Peach	T5229 <i>Prunus persica</i>	TAO
Peach Bast	T5232 <i>Prunus persica</i>	TAO JING BAI PI
Peach Flower	T5231 <i>Prunus persica</i>	TAO HUA
Peach Fritillary*	T2791 <i>Fritillaria persica</i>	TAO BEI MU
Peach Juvenile Branch	T5235 <i>Prunus persica</i>	TAO ZHI
Peach Kernel	T5233 <i>Prunus persica</i>	TAO REN
Peach Leaf	T5234 <i>Prunus persica</i>	TAO YE

Peach Root	T5230 <i>Prunus persica</i>	TAO GEN
Peachform Mango	T4103 <i>Mangifera persiciformis</i>	BIAN TAO
Peachliking Pumpkin	T1883 <i>Cucurbita pepo</i> var. <i>akoda</i>	TAO NAN GUA
Peanut	T0559 <i>Arachis hypogaea</i>	LUO HUA SHENG
Peanut Branch-leaf	T0561 <i>Arachis hypogaea</i>	LUO HUA SHENG ZHI YE
Peanut Oil	T0560 <i>Arachis hypogaea</i>	LUO HUA SHENG YOU
Pear Aglaia*	T0242 <i>Aglaia pirifera</i>	LI MI ZI LAN
Pearleaf Microglossa Root	T4218 <i>Microglossa pyrifolia</i>	XIAO SHE JU GEN
Pear-like Puff-ball	T3961 <i>Lycoperdon pyriforme</i>	LI XING MA BO
Pearwort	T5646 <i>Sagina japonica</i> [Syn. <i>Spergula japonica</i>]	QI GU CAO
Peashrub*	T1188 <i>Caragana chamlagu</i>	JIN JI ER
Pecan	T1218 <i>Carya illinoensis</i>	MEI GUO SHAN HE TAO
Pectinat Bushmint*	T3380 <i>Hyptis pectinata</i>	ZHI SHAN XIANG
Pectinate Speedwell*	T6726 <i>Veronica pectinata</i> var. <i>glandulosa</i>	SHU CHI PO PO NA
Pedate Pinellia	T4903 <i>Pinellia pedatisecta</i>	ZHANG YE BAN XIA
Pedicellate Gentian	T2925 <i>Gentiana pedicellata</i>	HUA GENG LONG DAN
Pedunculate Acronychia	T0151 <i>Acronychia pedunculata</i>	SHA TANG MU
Peking Euphorbia	T2608 <i>Euphorbia pekinensis</i>	DA JI ⁽³⁾
Peking Oak	T5371 <i>Quercus aliena</i>	HU LI
Peking Pyrrosia Frond	T5354 <i>Pyrrosia davidii</i>	BEI JING SHI WEI
Peltate Milkwort*	T5080 <i>Polygala peltatum</i>	ZU YE CAO
Peltate Sundew*	T2266 <i>Drosera peltata</i>	DUN ZHUANG MAO GAO CAI
Peltate Yam	T2213 <i>Dioscorea zingiberensis</i>	DUN YE SHU YU
Peltateleaf Meadowrue	T6393 <i>Thalictrum ichangense</i> [Syn. <i>Thalictrum tripeltatum</i> ; <i>Thalictrum multipeltatum</i>]	DUN YE TANG SONG CAO
Peltateleaf Pepper*	T4960 <i>Piper peltatum</i>	DUN YE HU JIAO
Pendentseed Jointfir	T3034 <i>Gnetum pendulum</i>	CHUI ZI MAI MA TENG
Pendulous Eucalyptus Leaf	T2504 <i>Eucalyptus camaldulensis</i> var. <i>pendula</i>	CHUI ZHI CHI AN YE
Pendulous Monkshood	T0122 <i>Aconitum pendulum</i>	TIE BANG CHUI
Pengxian Hemsleya	T3209 <i>Hemsleya pengxianensis</i>	PENG XIAN XUE DAN
<i>Penicillium verruculosum</i>	T4701 <i>Penicillium verruculosum</i>	Mold
Pennsylvanian Cocklebur*	T6841 <i>Xanthium pennsylvanicum</i>	BIN XI FA NI YA CANG ER
Pennyroyal Mint	T4187 <i>Mentha pulegium</i>	CHUN E BO HE
Penta-androus Caltrap*	T6496 <i>Tribulus pentandrus</i>	WU XIONG RUI JI LI
Pentagonous Ardisia	T0602 <i>Ardisia quinquegona</i>	LUO SAN SHU
Pentagynous Dillenia	T2182 <i>Dillenia pentagyna</i>	XIAO HUA WU YA GUO
Pentland Mandevilla*	T4098 <i>Mandevilla pentlandiana</i>	PENG TE MAN DE MU
<i>Pentopetia androsaernifolia</i>	T4702 <i>Pentopetia androsaernifolia</i>	PEN TUO PO TI CAO
Pepper Mint	T4186 <i>Mentha piperita</i>	LA BO HE
Pepper-tree	T4025 <i>Macropiper excelsum</i>	GAO DA HU JIAO
Peppertree Pricklyash	T6892 <i>Zanthoxylum schinifolium</i>	QING JIAO
Pepperweed Seed	T3755 <i>Lepidium apetalum</i> [Syn. <i>Lepidium micranthum</i>]	TING LI ZI
Peppery Milky	T3653 <i>Lactarius piperatus</i> [Syn. <i>Agaricus piperatus</i>]	LA RU GU
Perak Devilpepper	T5441 <i>Rauwolfia perakensis</i>	PI LI LUO FU MU
Pere L. F. Faurie's Rhododendron	T5509 <i>Rhododendron fauriei</i>	FU LEI SHI DU JUAN HUA
Peregrin Bleedingheart*	T2152 <i>Dicentra peregrina</i>	YI YANG HE BAO MU DAN
Peregrine Hoarhound	T4111 <i>Marrubium peregrinum</i>	YANG OU XIA ZHI CAO
Perennial Ragweed	T0405 <i>Ambrosia psilostachya</i>	LUO SUI TUN CAO
Perfoliate Knotweed Root	T5111 <i>Polygonum perfoliatum</i>	GANG BAN GUI GEN
Perforated Haplophyllum	T3104 <i>Haplophyllum perforatum</i>	DA YE YUN XIANG CAO
Perforated Harrisonia	T3109 <i>Harrisonia perforata</i>	NIU JIN GUO
Pericarp	T1488 <i>Citrus junos</i>	CHENG ZI PI
Perry Aloe*	T0342 <i>Aloe perryi</i>	PEI LI LU HUI

Persia Giantfennel Variety*	T2704 <i>Ferula persica</i> var. <i>latisecta</i>	BO SI A WEI BIAN ZHONG
Persia Motherwort*	T3753 <i>Leonurus persicus</i>	BO SI YI MU CAO
Persia Poppy	T4633 <i>Papaver persicum</i>	BO SI YING SU
Persimmon	T2221 <i>Diospyros kaki</i>	SHI ZI
Persimmon Leaf	T2220 <i>Diospyros kaki</i>	SHI YE
Persimmon Persistent Calyx	T2217 <i>Diospyros kaki</i>	SHI DI
Persimmon Root	T2218 <i>Diospyros kaki</i>	SHI GEN
Personator Padritree*	T6142 <i>Stereospermum personatum</i>	JIA MIAN YU YE QIU
Pertusate Ulva Frond	T6600 <i>Ulva pertusa</i>	KONG SHI CHUN
Peru Balmtree Resin	T4358 <i>Myroxylon pereirae</i>	BI LU XIANG JIAO
Peru Coca Shrub	T2492 <i>Erythroxylum novogranatense</i>	BI LU GU KE
Peru False Heath	T2652 <i>Fabiana imbricata</i>	PI QI QIE
Peru Squill*	T5812 <i>Scilla peruviana</i>	BI LU MIAN ZAO ER
Peruvian Groundcherry	T4852 <i>Physalis peruviana</i>	DENG LONG CAO
Petalformed Meadowrue	T6403 <i>Thalictrum petaloideum</i>	BAN RUI TANG SONG CAO
Petioled Pyrrosia Frond	T5358 <i>Pyrrosia petiolosa</i>	YOU BING SHI WEI
Petrofracted Pepper	T4964 <i>Piper retrofractum</i>	CHANG GUO BI BA
Petty Euphorbia	T2609 <i>Euphorbia peplus</i>	BO AI DA JI
Peyote	T3923 <i>Lophophora williamsii</i>	AN LU LONG SHE LAN
Phellandral Eucalyptus*	T2515 <i>Eucalyptus phellandra</i>	SHUI HUI XIANG AN
<i>Phellinus igniarius</i>	T4787 <i>Phellinus igniarius</i>	SANG HUANG
Philadelphia Fleabane	T2424 <i>Erigeron philadelphicus</i>	FEI CHENG FEI PENG
Philadelphia Groundcherry*	T4853 <i>Physalis philadelphica</i>	FEI CHENG SUAN JIANG
Philippine Bushbeech*	T3025 <i>Gmelina philippensis</i>	FEI LV BIN SHI ZI
Philippine Flemingia	T2737 <i>Flemingia philippinensis</i> [Syn. <i>Moghania philippinensis</i>]	MAN XING QIAN JIN BA
Philippine Flemingia	T4260 <i>Moghania philippinensis</i>	FEI LV BIN QIAN JIN BA
Philippine Groundsel*	T5896 <i>Senecio philippicus</i>	FEI LV BIN QIAN LI GUANG
Philippine Maidenhair*	T0173 <i>Adiantum lunulatum</i>	BAN YUE XING TIE XIAN JUE
Philippine Mallotus*	T4083 <i>Mallotus philippinensis</i>	CU KANG CHAI
Philippine Nettle tree	T1298 <i>Celtis philippinensis</i>	FEI LV BIN PIAO SHU
Philippine Podocarpus	T5051 <i>Podocarpus philippinensis</i>	FEI LV BIN LUO HAN SONG
Phoenix Date	T4820 <i>Phoenix dactylifera</i>	WU LOU ZI
Phoenix Tree Bast	T2731 <i>Firmiana simplex</i>	WU TONG BAI PI
Phoenix Tree Leaf	T2732 <i>Firmiana simplex</i>	WU TONG YE
Phoenix Tree Seed	T2733 <i>Firmiana simplex</i>	WU TONG ZI
Picrorhiza	T4887 <i>Picrorhiza kurrooa</i>	HU HUANG LIAN
Picture Houndstongue*	T1970 <i>Cynoglossum pictum</i>	ZHUO SE LIU LI CAO
Picture Kalopanax*	T3624 <i>Kalopanax pictum</i>	ZHUO SE CI QIU
Pig Gall	T6206 <i>Sus scrofa domestica</i>	ZHU DAN
Pigeon Vetch	T6749 <i>Vicia hirsuta</i>	XIAO CHAO CAI
Pilose Asiabell	T1599 <i>Codonopsis pilosula</i>	DANG SHEN
Pilose Curculigo*	T1902 <i>Curculigo pilosa</i>	MAO XIAN MAO
Pilose Gerbera	T2952 <i>Gerbera piloselloides</i>	MAO DA DING CAO
Pilose Germander	T6365 <i>Teucrium pilosum</i> [Syn. <i>Teucrium japonicum</i> var. <i>pilosum</i>]	CHANG MAO XIANG KE KE
Pilose Purslane*	T5174 <i>Portulaca pilosa</i>	MAO MA CHI XIAN
Piloseleaf Desmos Root	T2137 <i>Desmos dumosus</i>	MAO YE JIA YING ZHAO GEN
Pilosity Peavine*	T3708 <i>Lathyrus palustris</i> var. <i>pilosus</i>	ROU MAO SHAN LI DOU
Pilular Adina	T0180 <i>Adina pilulifera</i> [Syn. <i>Cephalanthus pilulifera</i>]	SHUI TUAN HUA
Pine Mushroom	T6504 <i>Tricholoma matsutake</i> [Syn. <i>Armillaria matsutake</i>]	SONG XUN
Pineapple	T0444 <i>Ananas comosus</i>	FENG LI
Pineapple Guava	T2693 <i>Feijoa sellowiana</i>	FEI YUE GUO
Pineleaf Groundsel	T5874 <i>Senecio abrotanifolius</i>	SONG YE QIAN LI GUANG
Pinewoods Coneflower	T5603 <i>Rudbeckia bicolor</i>	SHUANG SE JIN GUANG JU

Pink Plumepoppy	T4020 <i>Macleaya cordata</i>	BO LUO HUI
Pink Reineckea	T5449 <i>Reineckea carnea</i>	JI XIANG CAO
Pink-fringed Milky	T3656 <i>Lactarius torminosus</i>	MAO TOU RU GU
Pinkscale Gay-feather	T3788 <i>Liatris elegans</i>	HUA LI SHE BIAN JU
Pinnan Galangal	T0361 <i>Alpinia pinnanensis</i>	ZHU SUI SHAN JIANG
Pinnate Rue*	T5630 <i>Ruta pinnata</i>	YU ZHUANG YUN XIANG
Pinnateleaf Lilac	T6261 <i>Syringa pinnatifolia</i>	YU YE DING XIANG
Pipewart	T2434 <i>Eriocaulon buergerianum</i>	GU JING CAO
Piscidi Cuttongue tree*	T6806 <i>Walsura piscidia</i>	PI XI DI GE SHE SHU
<i>Piscidia erythrina</i>	T4977 <i>Piscidia erythrina</i>	YA MAI JIA DU YU DOU
Pittosporumlike Nothapodytes	T4439 <i>Nothapodytes pittosporoides</i>	MA BI MU
Planeleaf Alangium	T0285 <i>Alangium platanifolium</i>	GUA MU
Planeleaf Alangium Variety*	T0284 <i>Alangium paltanifolium</i> var. <i>platanifolium</i>	GUA MU BIAN ZHONG
Plantain Banana	T4330 <i>Musa paradisiaca</i>	FEN BA JIAO
Plantain Banana Cultivariaty*	T4332 <i>Musa x paradisiaca</i> cultivar	FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG
Platyangle Pricklepoppy*	T0611 <i>Argemone platyceras</i>	KUO GUO JI YING SU
Plumleaf Cratoxylum	T1785 <i>Cratoxylum prunifolium</i>	KU DING CHA
pobequini Fatheadtree*	T4393 <i>Nauclea pobequinii</i>	BO SHI WU TAN
Poets Narcissus	T4378 <i>Narcissus poeticus</i>	HONG KOU SHUI XIAN
Poienician Juniper	T3593 <i>Juniperus phoenicea</i>	FEI NI JI CI BAI
Poiret Barberry	T0912 <i>Berberis poiretii</i>	XI YE XIAO BO
Poison Euphorbia*	T2610 <i>Euphorbia poisonii</i>	PO SEN DA JI
Poison Ivy	T6481 <i>Toxicodendron radicans</i>	DU QI TENG
Poisonhemlock	T1642 <i>Conium maculatum</i>	DU SHEN
Poisonous Buttercup	T5415 <i>Ranunculus sceleratus</i>	SHI LONG RUI
Poisonous-shrub Anise*	T3408 <i>Illicium tsangii</i>	DU AI BA JIAO
Polyandrous Euptelea*	T2630 <i>Euptelea polyandra</i>	DUO XIONG RUI LING CHUN MU
Polyandrous Pokeweed	T4867 <i>Phytolacca polyandra</i>	DUO XIONG RUI SHANG LU
Polyanthus Narcissus	T4383 <i>Narcissus tazetta</i>	DUO HUA SHUI XIAN
Polybract Split-calyx Liverwort*	T1365 <i>Chiloscyphus polyanthus</i>	LIE E TAI
Polymorphic Angelica	T0491 <i>Angelica polymorpha</i>	GUAI QIN
Polymorphism Gold-hair Moss*	T5134 <i>Polytrichum ohioense</i>	DUO XING JIN FA XIAN
Polypore	T2751 <i>Fomitopsis spraguei</i>	CENG KONG JUN
Pomegranate	T5332 <i>Punica granatum</i>	SUAN SHI LIU
Pomegranate Heartwood	T5329 <i>Punica granatum</i>	SHI LIU XIN CAI
Pomegranate Leaf	T5330 <i>Punica granatum</i>	SHI LIU YE
Pomegranate Peel	T5328 <i>Punica granatum</i>	SHI LIU PI
Pomegranate Root	T5327 <i>Punica granatum</i>	SHI LIU GEN
Pomegranate Seed	T5331 <i>Punica granatum</i>	SHI LIU ZHONG ZI
Pomelo	T1474 <i>Citrus decumana</i>	ZHU LUAN
Pond Frog	T5407 <i>Rana nigromaculata</i> ; <i>Rana plancyi</i>	QING WA
Pond Frog Gall	T5408 <i>Rana nigromaculata</i> ; <i>Rana plancyi</i>	QING WA DAN
Poongaoil Pongamia	T5143 <i>Pongamia pinnata</i>	SHUI LIU DOU
Poplar-leaf Argyreia*	T0615 <i>Argyrea populifolia</i>	YANG YE YIN BEI TENG
Poplar-leaf-like White Quebracho*	T0771 <i>Aspidosperma populifolium</i>	SI YANG SHU YE BAI JIAN MU
Popyporus Agaric	T5129 <i>Polyporus umbellatus</i>	ZHU LING
Porrect Wormwood*	T0688 <i>Artemisia porrecta</i>	SHEN HAO
Portiatree	T6432 <i>Thespesia populnea</i> [Syn. <i>Hibiscus populneus</i>]	YANG YE XIAO JIN
Portlan Euphorbia*	T2611 <i>Euphorbia portlandica</i>	BO TE LAN DA JI
Potanin Barberry	T0913 <i>Berberis potaninii</i>	SHAO CHI XIAO BO
Potanin Iris	T3466 <i>Iris potaninii</i>	JUAN QIAO YUAN WEI
Potanin Larkspur	T2084 <i>Delphinium potaninii</i>	HEI SHUI CUI QUE

Potanin Larkspur Variety*	T2085 <i>Delphinium potaninii</i> var. <i>jiufengshanense</i>	HEI SHUI CUI QUE HUA BIAN ZHONG
Potato	T6017 <i>Solanum tuberosum</i>	MA LING SHU
Potmarigold Calendula praecox Stachyurus*	T1113 <i>Calendula officinalis</i> T6096 <i>Stachyurus praecox</i>	JIN ZHAN JU JING JIE HUA
Prain Microtoena	T4226 <i>Microtoena prainiana</i>	NAN CHUAN GUAN CHUN HUA
Prairie Mimosa	T2127 <i>Desmanthus illinoensis</i>	YI LI NUO HE HUAN CAO
Pratt Solomonseal	T5094 <i>Polygonatum prattii</i>	KANG DING YU ZHU
Prawn	T4696 <i>Panaeus orientalis</i>	HAI XIA Kihinouye
Prepared Common Monkshood Daughter Root	T0083 <i>Aconitum carmichaeli</i>	FU ZI
Prettiest Caesalpinia	T1107 <i>Caesalpinia pulcherrima</i>	JI MEI YUN SHI
Pretty Brake	T5286 <i>Pteris bella</i>	CHANG BING FENG WEI JUE
Pretty Crocus	T1809 <i>Crocus speciosus</i>	MEI LI FAN HONG HUA
Prettyleaf Winchia	T6825 <i>Winchia calophylla</i>	PEN JIA SHU
Prickly Juniper	T3592 <i>Juniperus oxycedrus</i>	CI GUI
Prickly Lettuce	T3663 <i>Lactuca serriola</i>	YE WO JU
Prickly Pear	T4520 <i>Opuntia ficus-indica</i>	LI GUO XIAN REN ZHANG
Prickly Sowthistle	T6026 <i>Sonchus asper</i> [Syn. <i>Sonchus oleraceus</i> var. <i>asper</i>]	XU DUAN JU
Pricklyash	T6863 <i>Zanthoxylum americanum</i> [Syn. <i>Xanthoxylum americanum</i>]	MEI ZHOU HUA JIAO
Pricklyfruit Licorice	T3018 <i>Glycyrrhiza pallidiflora</i>	CI GUO GAN CAO
Primrose Denrdobium	T2109 <i>Dendrobium primulinum</i>	BAO CHUN SHI HU
Prince's-feather	T5110 <i>Polygonum orientale</i>	HONG CAO
Prinos-like Salacia	T5648 <i>Salacia prinoides</i> [Syn. <i>Salacia chinensis</i>]	SUO LA MU
Procumbent Hypecoum*	T3335 <i>Hypecoum procumbens</i>	PING ZHAN JIAO HUI XIANG
Proliferous Euphorbia*	T2612 <i>Euphorbia prolifera</i>	TU GUA LANG DU
Prolongated Spleenwort	T0776 <i>Asplenium prolongatum</i>	CHANG SHENG TIE JIAO JUE
Propolis	T0543 <i>Apis mellifera ligustica</i>	FENG JIAO
Prostrate Pachysandra*	T4574 <i>Pachysandra procumbens</i>	YANG WO BAN DENG GUO
Prostrate Rice-flower*	T4892 <i>Pimelea prostrata</i>	PING WO DAO HUA
Protozoon <i>Ochromonas malhamensis</i>	T4467 <i>Ochromonas malhamensis</i>	
Provincialis Gayfeather*	T3789 <i>Liatris provincialis</i>	TU ER FENG
Przewalsk Rhododendron*	T5521 <i>Rhododendron przewalskii</i>	LONG SHU DU JUAN
Przewalsk Ephedra	T2377 <i>Ephedra przewalskii</i>	MO GUO MA HUANG
Przewalsk Fritillary	T2792 <i>Fritillaria przewalskii</i>	GAN SU BEI MU
Przewalsk Sage	T5688 <i>Salvia przewalskii</i>	GAN XI SHU WEI CAO
Przewalsk Skullcap	T5842 <i>Scutellaria przewalskii</i>	AI YE HUANG QIN
Pseudobald Pyrrosia*	T5359 <i>Pyrrosia pseudocalvata</i>	NI GUANG SHI WEI
Pseudoiva Bugle*	T0269 <i>Ajuga pseudoiva</i>	
Pseudomonas Locust*	T5553 <i>Robinia pseudomonas</i>	JIA DAN BAO JUN YANG HUAI
Pseudo-racemose Glycosmis*	T3009 <i>Glycosmis pseudoracemosa</i>	JIA ZONG ZHUANG HUA XU SHAN XIAO JU
Pseud-oriental Groundsel*	T5899 <i>Senecio pseudoorientalis</i>	JIA DONG FANG QIAN LI GUANG
Pseudoriental Poppy*	T4634 <i>Papaver pseudorientale</i>	JIA JIN DONG YING SU
Pseudostapfia Monkshood	T0125 <i>Aconitum pseudostapfianum</i>	NI YU LONG WU TOU
Puberulent Monkshood	T0078 <i>Aconitum barbatum</i> var. <i>puberulum</i> [Syn. <i>Aconitum ochranthum</i>]	NIU BIAN
Puberulent Sneezeweed*	T3140 <i>Helenium puberulum</i>	WEI MAO DUI XIN JU
Pubescence Epimedium	T2401 <i>Epimedium pubescens</i>	ROU MAO YIN YANG HUO
Pubescent Birch*	T0934 <i>Betula pubescens</i>	MAO ZHI HUA
Pubescent Holly	T3396 <i>Ilex pubescens</i>	MAO DONG QING
Pubescent Nightshade	T6010 <i>Solanum pubescens</i>	ROU MAO QIE
Pubescent Sunflower*	T3150 <i>Helianthus mollis</i>	ROU MAO XIANG RI KUI

Pubescent Swertia	T6232 <i>Swertia pubescens</i>	MAO ZHANG YA CAI
Puddun Plum*	T5237 <i>Prunus puddun</i>	PU DUN LI
Pukee Monkshood	T0126 <i>Aconitum pukeese</i>	PU GE WU TOU
Pulicaria*	T5322 <i>Pulicaria wightiana</i>	ZAO CAO
Pulverulent Primrose	T5203 <i>Primula pulverulenta</i>	YIN FEN BAO CHUN
Pummelo	T1478 <i>Citrus grandis</i>	YOU ⁽⁴⁾
Pummelo Seed	T1479 <i>Citrus grandis</i>	YOU HE
Pumpkin	T1882 <i>Cucurbita pepo</i>	XI HU LU
Punctate Flakelet Fern	T3376 <i>Hypolepis punctata</i> [Syn. <i>Polypodium punctatum</i>]	JI JUE
Punctate Swertia*	T6233 <i>Swertia punctata</i>	XI DIAN ZHANG YA CAI
Punctated Microsorium*	T4225 <i>Microsorium punctatum</i>	XING JUE
Puncturevine Caltrap	T6497 <i>Tribulus terrestris</i>	CI JI LI
Puncturevine Caltrap Root	T6498 <i>Tribulus terrestris</i>	JI LI GEN
Puncturevine Caltrap Shoot*	T6499 <i>Tribulus terrestris</i>	JI LI MIAO
Pungent Jerusalem sage*	T4811 <i>Phlomis pungens</i>	CI CAO SU
Pungent Litsea	T3893 <i>Litsea pungens</i>	ZHEN CAI
Puqi Fritillary*	T2793 <i>Fritillaria puqiensis</i>	PU QI BEI MU
Purdie Podocarpus*	T5053 <i>Podocarpus purdieana</i>	PU ER DI LUO HAN SONG
Purging Croton	T1858 <i>Croton tiglium</i>	BA DOU
Puriri	T6785 <i>Vitex lucens</i>	XIN XI LAN MU JING
Purple Adhesive Rehmannia*	T5448 <i>Rehmannia glutinosa</i> var. <i>purpurea</i>	ZI DI HUANG
Purple Bauhinia	T0879 <i>Bauhinia purpurea</i>	ZI YANG TI JIA
Purple Bergenia	T0924 <i>Bergenia purpurascens</i>	YAN BAI CAI
Purple Butterbur	T4743 <i>Petasites officinalis</i> [Syn. <i>Petasites hybridu</i>]	ZI FENG DOU CAI
Purple Conedaisy	T2314 <i>Echinacea purpurea</i>	ZI HUA SONG GUO JU
Purple Hellebore*	T3186 <i>Helleborus purpurascens</i>	ZI TI GEN CAO
Purple Hypoestes	T3373 <i>Hypoestes purpurea</i> [Syn. <i>Justicia purpurea</i> ; <i>Hypoestes sinica</i>]	QIANG DAO YAO
Purple Meadowrue	T6377 <i>Thalictrum dasycarpum</i>	CU GUO TANG SONG CAO
Purple Prairie-clover	T4736 <i>Petalostemon purpureus</i>	ZI SE BAN RUI DOU
Purple Swertia*	T6236 <i>Swertia purpurascens</i>	ZI SE ZHANG YA CAI
Purple Tephrosia	T6338 <i>Tephrosia purpurea</i>	HUI YE
Purple Tephrosia Root	T6339 <i>Tephrosia purpurea</i>	HUI YE GEN
Purple Viper's-bugloss	T2319 <i>Echium plantagineum</i>	CHE QIAN YE LAN JI
Purpleback Pyrola	T5344 <i>Pyrola atropurpurea</i>	ZI BEI LU TI CAO
Purpleflower Crotalaria	T1831 <i>Crotalaria sessiliflora</i>	YE BAI HE
Purpleflower Fritillary	T2786 <i>Fritillaria ebeiensis</i> var. <i>purpurea</i>	ZI HUA E BEI BEI MU
Purpleflower High Monkshood	T0091 <i>Aconitum excelsum</i>	ZI HUA GAO WU TOU
Purpleflower Holly	T3388 <i>Ilex chinensis</i> [Syn. <i>Ilex purpurea</i>]	SI JI QING
Purpleflower Stonecrop	T3318 <i>Hylotelephium mingjinianum</i>	ZI HUA JING TIAN
Purplehair Rabdosia	T3486 <i>Isodon enanderianus</i>	ZI MAO XIANG CHA CAI
Purplequeen Holarrhena*	T3266 <i>Holarrhena floribunda</i>	FAN HUA ZHI XIE MU
Purplered-corolla Mullein*	T6706 <i>Verbascum wiedemannianum</i>	ZI HUA GUAN MAO RUI HUA
Purplestem Eupatorium Flower	T2549 <i>Eupatorium adenophorum</i>	ZI JING ZE LAN HUA
Purslane	T5173 <i>Portulaca oleracea</i>	MA CHI XIAN
Pyramidal Groundsel*	T5900 <i>Senecio pyramidatus</i>	JIN ZI TA XING QIAN LI GUANG
Pyramidal Magnolia*	T4047 <i>Magnolia pyramidata</i>	JIN ZI TA MU LAN
Pyrethrum	T1389 <i>Chrysanthemum coccineum</i>	HONG HUA CHU CHONG JU
Qibaizhi Angelica*	T0479 <i>Angelica dahurica</i> cv. <i>qibaizhi</i>	QI BAI ZHI
Qinling Rhubarb*	T5475 <i>Rheum qinlingense</i>	QIN LING DA HUANG
Quaternary Alstonia*	T0372 <i>Alstonia quaternata</i>	SI SHU JI GU CHANG SHAN
Queen Crapemyrtle	T3673 <i>Lagerstroemia speciosa</i> [Syn. <i>Munchausia speciosa</i> ; <i>Lagerstroemia flos-reginae</i>]	DA HUA ZI WEI
Queen-of-the-Meadows	T2729 <i>Filipendula ulmaria</i>	XUAN GUO WEN ZI CAO

Queensland Nut	T4011 <i>Macadamia ternifolia</i>	AO ZHOU JIAN GUO
Racemed Milkwort	T5081 <i>Polygala polygama</i>	KU YUAN ZHI
Racemose Adina	T5960 <i>Sinoadina racemosa</i> [Syn. <i>Adina racemosa</i>]	JI ZI MU
Racemose Atalantia Leaf*	T0816 <i>Atalantia racemosa</i>	ZONG ZHUANG DONG FENG JU YE
Racemose Bauhinia*	T0880 <i>Bauhinia racemosa</i>	ZONG ZHUANG HUA YANG TI JIA
Racemose Bugbane*	T1424 <i>Cimicifuga racemosa</i>	ZONG ZHUANG SHENG MA
Racemose Corydalis	T1733 <i>Corydalis racemosa</i>	XIAO HUA HUANG JIN
Racemose Cyclea	T1932 <i>Cyclea racemosa</i>	LUN HUAN TENG
Racemose Fig*	T2724 <i>Ficus racemosa</i>	JU GUO RONG
Racemose Goosefoot*	T1363 <i>Chenopodium championii</i>	ZONG ZHUANG HUA LI
Racemose Inula	T3437 <i>Inula racemosa</i>	ZONG ZHUANG TU MU XIANG
Racemose Mesua*	T4204 <i>Mesua racemosa</i>	ZONG ZHUANG TIE LI MU
Racemose Millettia*	T4242 <i>Millettia racemosa</i>	ZONG ZHUANG JI XUE TENG
Racemose Porana	T5167 <i>Porana racemosa</i>	FEI E TENG
Racemose Sweetleaf	T6254 <i>Symplocos racemosa</i>	ZHU ZI SHU
Radde Windflower	T0470 <i>Anemone raddeana</i>	DUO BEI YIN LIAN HUA
Ragweed	T0396 <i>Ambrosia ambrosioides</i>	PU TONG TUN CAO
Ragweed Groundsel*	T5879 <i>Senecio ambrosioides</i>	TUN CAO QIAN LI GUANG
Ragwort	T5890 <i>Senecio jacobaea</i>	CAO DIAN QIAN LI GUANG
Raintree	T5703 <i>Samanea saman</i>	YU SHU
Ramose Amberboa*	T0394 <i>Amberboa ramosa</i>	FEN ZHI PO JU
Ramose Gentian*	T2926 <i>Gentiana ramosa</i>	DUO ZHI LONG DAN
Ramose Heliotrope*	T3178 <i>Heliotropium ramosissimum</i>	DUO ZHI TIAN JIE CAI
Ramose Pluchea*	T0849 <i>Baccharis ramosissima</i>	DUO ZHI KUO BAO JU
Ramose Thorowax*	T1068 <i>Bupleurum polyclonum</i>	DUO ZHI CHAI HU
Randain Swertia*	T6237 <i>Swertia randainensis</i>	LUAN DA SHAN ZHANG YA CAI
Rangooncreeper	T5384 <i>Quisqualis indica</i>	SHI JUN ZI
Rangooncreeper Leaf	T5385 <i>Quisqualis indica</i>	SHI JUN ZI YE
Rape	T1009 <i>Brassica napus</i>	OW ZHOU YOU CAI
Rapeseed*	T1011 <i>Brassica napus</i> var. <i>napus</i>	YOU CAI ZI
Rassak Vatica*	T6686 <i>Vatica rassak</i>	QING MEI
Rattlesnakeroot	T5196 <i>Prenanthes acerifolia</i>	QI YE PAN GUO JU
Ray-fungus 1	T6152 <i>Strepyomyces niveus</i>	
Ray-fungus 2	T6153 <i>Strepyomyces spheroids</i>	
Realleaf Garcinia*	T2854 <i>Garcinia eugenifolia</i>	ZHEN YE TENG HUANG
Rebaud Eupatorium*	T2569 <i>Eupatorium rebaudianum</i>	TIAN YE JU
Recurvate Nolina*	T4437 <i>Nolina recurvata</i>	XIA WAN NUO LIN
Red Belt Polypore	T2750 <i>Fomitopsis pinicola</i> [Syn. <i>Fomes pinicola</i> ; <i>Polyporus pinicola</i>]	HONG YUAN CENG KONG JUN
Red Champion	T3949 <i>Lychnis dioica</i>	HONG JIAN QIU LUO
Red Cedar	T3603 <i>Juniperus virginiana</i>	BEI MEI YUAN BAI
Red Clover	T6521 <i>Trifolium pratense</i>	HONG CHE ZHOU CAO
Red Cowparsnip*	T3212 <i>Heracleum granatense</i>	HONG DU HUO
Red Fruit	T1778 <i>Crataegus pinnatifida</i> var. <i>major</i>	SHAN LI HONG
Red Horsechestnut	T0200 <i>Aesculus carnea</i>	HONG QI YE SHU
Red Knoxia	T3632 <i>Knoxia valerianoides</i>	HONG YA DA JI
Red Koji; Angkak	T4270 <i>Monascus kaoliang</i>	GAO LIANG HONG QU
Red Lady-bug	T3287 <i>Huechys sanguinea</i>	HONG NIANG ZI
Red Maple	T0054 <i>Acer rubrum</i>	HONG HUA QI
Red Nanmu Bark	T4018 <i>Machilus thunbergii</i>	HONG NAN PI
Red Orange	T1476 <i>Citrus erythrosa</i>	ZHU JU
Red Pine	T4921 <i>Pinus resinosa</i>	DUO ZHI SONG
Red Pricklyash*	T6891 <i>Zanthoxylum rubescens</i>	HONG HUA JIAO
Red Squill	T6649 <i>Urginea maritima</i>	HAI CONG

Red Tasseflower*	T2356 <i>Emilia coccinea</i>	FEI YI DIAN HONG
Red Thorowax	T1072 <i>Bupleurum scorzoniferolium</i>	HONG CHAI HU
Red Viburnum*	T6736 <i>Viburnum erubescens</i>	HONG JIA MI
Red Vinespinach flower	T0875 <i>Basella rubra</i>	LUO KUI HUA
Red-and-Yellow Garden Raspberry	T5593 <i>Rubus idaeus</i>	FU PEN ZI
Redback Christmashush	T0297 <i>Alchornea trewioides</i>	HONG BEI SHAN MA GAN
Redbark Cinchona	T1433 <i>Cinchona succirubra</i>	HONG SE JIN JI NA SHU
Redbracted Lysidice	T3995 <i>Lysidice rhodostegia</i>	YI HUA
Redcalyx Glotybower	T1555 <i>Clerodendron fortunatum</i>	GUI DENG LONG
Redcalyx Millettia*	T4235 <i>Millettia erythrocalyx</i>	HONG E JI XUE TENG
Reddish Jackinthepulpit	T0618 <i>Arisaema consanguineum</i>	TIAN NAN XING
Reddrop Barberry	T0902 <i>Berberis diaphana</i>	XIAN HUANG XIAO BO
Redflower Gentian	T2927 <i>Gentiana rhodantha</i>	HONG HUA LONG DAN
Redflower Kopsia	T3640 <i>Kopsia fruticosa</i>	HONG HUA RUI MU
Redflower Magnoliavine	T5799 <i>Schisandra rubriflora</i>	HONG HUA WU WEI ZI
Redflower Meconopsis	T4145 <i>Meconopsis punicea</i>	HONG HUA LV RONG HAO
Redflower Pyrola	T5349 <i>Pyrola incarnata</i>	HONG HUA LU TI CAO
Redflower Sweetvetch	T3128 <i>Hedysarum multijugum</i>	HONG HUA YAN HUANG QI
Redflowered Swisscentaury*	T5465 <i>Rhaponticum carthamoides</i>	LU CAO
Redfoot Wormwood	T0691 <i>Artemisia rubripes</i>	HONG ZU HAO
Redfruit Devilpepper	T5425 <i>Rauwolfia verticillata</i> f. <i>rubrocarpa</i>	HONG GUO LUO FU MU
Redfruit Pencilwood	T2308 <i>Dysoxylum binectariferum</i>	HONG GUO JIAN MU
Redhaw Hawthorn	T1780 <i>Crataegus sanguinea</i>	LIAO NING SHAN ZHA
Red-knees	T5104 <i>Polygonum hydropiper</i>	SHUI LIAO
Red-knees Fruit	T5103 <i>Polygonum hydropiper</i>	LIAO SHI
Red-milk Grass*	T2623 <i>Euphorbia makinoi</i>	HONG RU CAO
Red-Rock-Ears	T6602 <i>Umbilicaria hypococcinea</i>	HONG SHI ER
Redroot Gromwell	T3881 <i>Lithospermum erythrorhizon</i>	ZI CAO
Redspot Swertia	T6219 <i>Swertia erythrosticta</i>	HONG ZHI ZHANG YA CAI
Redstriae Woodbetony	T4684 <i>Pedicularis striata</i>	HONG WEN MA XIAN HAO
Red-water Tree	T2485 <i>Erythrophleum guineense</i>	JI NEI YA GE MU
Redwood	T5918 <i>Sequoia sempervirens</i>	BEI MEI HONG SHAN
Reed Canary-grass	T4777 <i>Phalaris arundinacea</i>	YI CAO
Reeves Skimmia	T5972 <i>Skimmia reevesiana</i>	YIN YU
Regel Ephedra	T2378 <i>Ephedra regeliana</i>	XI ZI MA HUANG
Regel Eyebright	T2629 <i>Euphrasia regelii</i>	DUAN XIAN XIAO MI CAO
Regel Threewingnut	T6541 <i>Tripterygium regelii</i>	HEI MAN
Regnell Morningglory*	T3451 <i>Ipomoea regnellii</i>	RUI SHI QIAN NIU
Rehder Skullcap;	T5843 <i>Scutellaria rehderiana</i>	GAN SU HUANG QIN
Reindeer Moss	T1526 <i>Cladonia rangiferina</i>	SHI RUI
Reini Milkwort*	T5082 <i>Polygala reinii</i>	SHI YE CAO
Religious Anisetree*	T3406 <i>Illicium religiosum</i>	DONG DU HUI
Remote Lemongrass	T1941 <i>Cymbopogon distans</i>	YUN XIANG CAO
Renard Groundsel*	T5901 <i>Senecio renardii</i>	LEI SHI QIAN LI GUANG
Reniform Pelargonium*	T4692 <i>Pelargonium reniforme</i>	SHEN YE TIAN ZHU KUI
Reniform Rabdosia*	T3502 <i>Isodon latifolia</i> var. <i>reniformis</i>	SHEN XING XIANG CHA CAI
Repent Corydalis*	T1736 <i>Corydalis repens</i> var. <i>humosides</i>	TU YAN HU
Resinoid Cistus*	T1870 <i>Cistus ladaniferus</i>	SHU ZHI BAN RI HUA
Resinoid Euphorbia*	T2616 <i>Euphorbia resinifera</i>	SHU ZHI DA JI
Resinoid Sumac*	T5535 <i>Rhus retinorrhoea</i>	SHU ZHI YAN FU MU
Restharrow	T4493 <i>Ononis spinosa</i>	CI MANG BING HUA
Reticulate Leaf-flower*	T4842 <i>Phyllanthus reticulatus</i>	LONG YAN JING
Reticulatefruit Larkspur	T2072 <i>Delphinium dictyocarpum</i>	WANG GUO CUI QUE HUA

Retorse Groundsel*	T5902 <i>Senecio retrorsus</i>	WAN QU QIAN LI GUANG
Retuse Ash Leaf	T2770 <i>Fraxinus insularis</i>	KU LI MU YE
Retuseleaf Daphne	T2030 <i>Daphne retusa</i>	AO YE RUI XIANG
Reunion-Island Melicope*	T4164 <i>Melicope coodeana</i>	RU NI WENG DAO MI ZHU YU
Rhinoceros Horn	T5484 <i>Rhinoceros unicornis</i> ; <i>Rhinoceros sondaicus</i> ; <i>Rhinoceros sumatrensis</i>	XI JIAO
Rhombicleaf Purpledaisy	T4447 <i>Notoseris rhombiformis</i>	LING YE ZI JU
Rhombicsign White Quebracho*	T0774 <i>Aspidosperma rhombeoignatum</i>	LENG ZHUANG BAI JIAN MU
Rhubarb	T5476 <i>Rheum rhabarbaricum</i>	SHI YONG DA HUANG
Ribbon Gum	T2522 <i>Eucalyptus viminalis</i>	DUO ZHI AN
Rice	T4545 <i>Oryza sativa</i>	JING MI
Rice Frog Gall	T5406 <i>Rana limnocharis</i>	XIA MA DAN
Rice Galingale	T1976 <i>Cyperus iria</i>	SUI MI SHA CAO
Rice Spermoderm	T4546 <i>Oryza sativa</i>	MI PI KANG
Rice Straw	T4544 <i>Oryza sativa</i>	DAO CAO
Ricepaperplant	T6357 <i>Tetrapanax papyriferus</i>	TONG TUO MU
Ricepaperplant Root	T6356 <i>Tetrapanax papyriferus</i>	TONG HUA GEN
Riddell Groundsel	T5903 <i>Senecio riddellii</i>	RUI DE QIAN LI GUANG
Ridley Pometia*	T5136 <i>Pometia ridleyi</i>	LI DE LI FAN LONG YAN
Rigescens Gentian	T2928 <i>Gentiana rigescens</i>	DIAN LONG DAN
Rigid Blackberry*	T5596 <i>Rubus rigidus</i>	JIAN YING XUAN GOU ZI
Rimth (in Tunisia)	T3096 <i>Hammada scoparia</i> [Syn. <i>Arthrophytum scoparium</i> ; <i>Haloxylon articulatum</i> ssp. <i>scoparium</i> ; <i>Haloxylon scoparium</i>]	
Riparian Diclptera*	T2160 <i>Dicliptera riparia</i>	HE AN GOU GAN CAI
Riparian Eupatorium, Riverside Eupatorium	T2570 <i>Eupatorium riparium</i>	HE AN ZE LAN
Riparian Rosewood*	T2011 <i>Dalbergia riparia</i>	HE AN HUANG TAN
Riparian Tarbush*	T2741 <i>Flourensia riparia</i>	HE AN FU LAO JU
Rippleseed Plantain	T5007 <i>Plantago major</i>	DA CHE QIAN
Ripply Cocklebur*	T6842 <i>Xanthium riparium</i>	XIAO XI CANG ER
River Bedstraw*	T2833 <i>Galium rivale</i>	XI LIU ZHU YANG YANG
River-bend Rhubarb*	T5469 <i>Rheum hotaoense</i>	HE TAO DA HUANG
Rivulet Groundsel*	T5904 <i>Senecio rivularis</i>	XI QIAN LI GUANG
Robert Cranesbill	T2946 <i>Geranium robertianum</i>	XIAN XI LAO GUAN CAO
Roborowsk Sage	T5690 <i>Salvia roborowskii</i>	NIAN MAO SHU WEI CAO
Robust Embelia*	T2349 <i>Embelia robusta</i>	CU ZHUANG SUAN TENG ZI
Robust Cinchona*	T1430 <i>Cinchona robusta</i>	CU ZHUANG JIN JI NA
Robust Coffee*	T1611 <i>Coffea robusta</i>	CU ZHUANG KA FEI
Robust Gentian*	T2929 <i>Gentiana robusta</i>	CU ZHUANG LONG DAN
Robust Jewelvine	T2122 <i>Derris robusta</i>	CU ZHUANG YU TENG
Robust Leontice	T3746 <i>Leontice robustum</i>	HONG MAO QI
Robust Silene*	T5953 <i>Silene firma</i>	YING YE NV LOU CAI
Robust Silk Oak	T3063 <i>Grevillea robusta</i>	YIN HUA
Roce Pelargonium	T4690 <i>Pelargonium graveolens</i>	XIANG YE
Rock Thorowax	T1070 <i>Bupleurum rockii</i>	LI JIANG CHAI HU
Rock Wormwood	T0692 <i>Artemisia rupestris</i> [Syn. <i>Artemisia dentata</i> ; <i>Artemisia viridis</i> ; <i>Artemisia viridifolia</i>]	XIN JIANG YI ZHI HAO
Rock-Ears*	T6601 <i>Umbilicaria esculenta</i> [Syn. <i>Gyrophora esculenta</i>]	SHI ER
Rocket Candytuft	T3385 <i>Iberis amara</i>	QU QU HUA
Rocket Consolida	T1645 <i>Consolida ajacis</i> [Syn. <i>Delphinium ajacis</i>]	FEI YAN CAO
Rock-ginger Fern	T5252 <i>Pseudodrynaria coronans</i>	CHUAN SHI JIAN
Rockliving Corydalis	T1747 <i>Corydalis thalictrifolia</i>	YAN HUANG LIAN
Roof Iris	T3471 <i>Iris tectorum</i>	YUAN WEI
Root-tuber Cremanthodium	T1786 <i>Cremanthodium ellisii</i>	KUAI GEN CHUI TOU JU

Roquette	T2439 <i>Eruca sativa</i>	ZHI MA CAI
Rosary Ear-leaf Muscus*	T2803 <i>Frullania tamarisci</i> ssp. <i>moniliata</i> [Syn. <i>Frullania moniliata</i>]	CHUAN ZHU ER YE TAI
Rose Corydalis*	T1737 <i>Corydalis rosea</i>	MEI GUI HONG JIN
Rose Glorybower (Clerodendrum)	T1565 <i>Clerodendrum bungei</i>	CHOU MU DAN
Rose Hypoestes*	T3374 <i>Hypoestes rosea</i>	DAN HONG QIANG DAO YAO
Rose Mallow	T6645 <i>Urena lobata</i>	DI TAO HUA
Roseapple	T6267 <i>Syzygium jambos</i>	PU ⁽³⁾ TAO
Rosemary	T5575 <i>Rosmarinus officinalis</i>	MI DIE XIANG
Rosemyrtle	T5529 <i>Rhodomyrtus tomentosa</i>	TAO JIN NIANG
Rose-of-Sharon	T3343 <i>Hypericum calycinum</i>	DA E JIN SI TAO
Rosepink Zephyrily	T6904 <i>Zephyranthes grandiflora</i> [Syn. <i>Zephyranthes carinata</i>]	FENG YU HUA
Rosering Gaillardia	T2820 <i>Gaillardia pulchella</i>	TIAN REN JU
Rosmarin-leaf Groundsel*	T5905 <i>Senecio rosmarinifolius</i>	MI DIE XIANG YE QIAN LI GUANG
Rosthorn Rabdosia	T3520 <i>Isodon rosthornii</i>	YING HUA XIANG CHA CAI
Rosthorn Snakegourd	T6513 <i>Trichosanthes rosthornii</i> [Syn. <i>Trichosanthes uniflora</i>]	SHUANG BIAN GUA LOU
Rosthorn Yam	T2204 <i>Dioscorea nipponica</i> ssp. <i>rosthornii</i>	CHAI HUANG JIANG
Rostral Ninenode*	T5278 <i>Psychotria rostrata</i>	HUI ZHUANG JIU JIE
Rostratefruit Gynostemma	T3086 <i>Gynostemma yixingense</i>	HUI GUO JIAO GU LAN
Rotate Hymenocallis*	T3321 <i>Hymenocallis rotata</i>	FU ZHUANG SHUI GUI JIAO
Rough Comfrey	T6244 <i>Symphytum asperum</i>	CU XI MEN FEI CAO
Rough Gentian	T2930 <i>Gentiana scabra</i>	LONG DAN
Rough Leucas	T3779 <i>Leucas aspera</i>	FENG CHAO CAO
Rough Star Thistle	T1301 <i>Centaurea aspera</i> ssp. <i>aspera</i>	CU CAO SHI CHE JU
Roughfruit Rabdosia*	T3500 <i>Isodon lasiocarpa</i>	CU GUO XIANG CHA CAI
Roughleaf Raspberry	T5587 <i>Rubus alceaefolius</i>	CU YE XUAN GOU ZI
Rough-veined Rapanea*	T5416 <i>Rapanea neurophylla</i>	CU YE MAI MI HUA SHU
Round Cardamom	T0416 <i>Amomum kravanh</i> [Syn. <i>Amomum cardamomum</i>]	BAI DOU KOU
Roundfruit Glochidion*	T2989 <i>Glochidion sphaerogynum</i>	YUAN GUO SUAN PAN ZI
Roundfruit Licorice	T3021 <i>Glycyrrhiza squamulosa</i>	YUAN GUO GAN CAO
Roundleaf Coca Shrub*	T2489 <i>Erythroxylon rotundifolium</i>	YUAN XING YE GU KE
Roundleaf Corydalis*	T1738 <i>Corydalis rotundatour</i>	YUAN YE SHAN WU GUI
Roundleaf Eupatorium*	T2571 <i>Eupatorium rotundifolium</i>	YUAN YE ZE LAN
Round-leaf Flytrap*	T2187 <i>Dionaea rotundifolia</i>	YUAN YE BU YING CAO
Roundleaf Heliotrope*	T3179 <i>Heliotropium rotundifolium</i>	YUAN YE TIAN JIE CAI
Roundleaf Pharbitis Seed	T4780 <i>Pharbitis purpurea</i>	YUAN YE QIAN NIU ZI
Roundleaf Schefflera*	T5783 <i>Schefflera rotundifolia</i>	YUAN YE E ZHANG CHAI
Roundleaf Sundew	T2268 <i>Drosera rotundifolia</i>	YUAN YE MAO GAO CAI
Roundleaf Thorowax*	T1071 <i>Bupleurum rotundifolium</i>	YUAN YE CHAI HU
Roundpod Jute Leaf	T1673 <i>Corchorus capsularis</i>	HUANG MA YE
Roundpod Jute Seed	T1674 <i>Corchorus capsularis</i>	HUANG MA ZI
Roundwingfruit Cyclocarya	T1936 <i>Cyclocarya paliurus</i>	QING QIAN LIU
Roxburg Aglaia*	T0244 <i>Aglaia roxburghiana</i>	LUO KE SI BAO MI ZI LAN
Roxburgh Engelhardtia Root	T2360 <i>Engelhardtia roxburghiana</i>	HUANG QI II
Roxburgh Peristrophe	T4730 <i>Peristrophe roxburghiana</i>	GUAN YIN CAO
Roxburgh Rose	T5570 <i>Rosa roxburghii</i>	CI LI
Roxburgh Wormwood	T0690 <i>Artemisia roxburghiana</i>	HUI BAO HAO
Royal Jelly	T0541 <i>Apis cerana</i>	FENG RU
Royal Paulownia	T4679 <i>Paulownia tomentosa</i>	MAO PAO TONG
Royle Euphorbia Latex	T2617 <i>Euphorbia royleana</i>	BA WANG BIAN
Roylei Condorvine*	T4119 <i>Marsdenia roylei</i>	ROU LEI NIU NAI CAI
Rubi Pholidota*	T4822 <i>Pholidota rubra</i>	HONG SHI XIAN TAO
Rueleaf Wormwood*	T0693 <i>Artemisia sativum</i>	YUN XIANG YE HAO
Rufous Turtle Dove	T6150 <i>Streptopelia orientalis</i>	BAN JIU

Rugose Meadowrue*	T6407 <i>Thalictrum rugosum</i>	ZOU WEN TANG SONG CAO
Rugose Rabdosia*	T3523 <i>Isodon rugosus</i> [Syn. <i>Rabdosia rugosa</i>]	ZHOU YE XIANG CHA CAI
Rugose Rose Flower	T5572 <i>Rosa rugosa</i>	MEI GUI HUA
Runner Bean	T4782 <i>Phaseolus multiflorus</i>	HONG HUA CAI DOU
Rupestrine Dragonhead	T2258 <i>Dracocephalum rupestre</i>	YANG QING LAN
Ruspol Aloe*	T0343 <i>Aloe ruspoliana</i>	LA SHI LU HUI
Russian Boschniakia	T0993 <i>Boschniakia rossica</i>	CAO CONG RONG
Russian Comfrey	T6249 <i>Symphytum x uplandicum</i>	E GUO XI MEN FEI CAO
Russian Hogfennel*	T4770 <i>Peucedanum ruthenicum</i>	E GUO QIAN HU
Russianolive	T2326 <i>Elaeagnus angustifolia</i>	SHA ZAO
Russianolive Bark	T2327 <i>Elaeagnus angustifolia</i>	SHA ZAO SHU PI
Rust-coloured Crotalaria	T1819 <i>Crotalaria ferruginea</i>	XIANG LING CAO
Rusty Foxglove	T2174 <i>Digitalis ferruginea</i>	XIU MAO DI HUANG
Rustyhair Taxillus	T6304 <i>Taxillus levinei</i>	XIU MAO JI SHENG
Rutaceae Diosma	T1617 <i>Coleonema pulchellum</i>	MEI LI BU KU
Ruyuan Rhododendron	T5512 <i>Rhododendron lingii</i>	RU YUAN DU JUAN
S. Sichuan Egretgrass	T2240 <i>Diuranthera inarticulata</i>	NAN CHUAN LU SI CAO
S. Yunnan Beautyleaf	T1130 <i>Calophyllum polyanthum</i>	DIAN NAN HONG HOU KE
Saba Aloe	T0344 <i>Aloe saba</i>	SA BA LU HUI
Saccate Mullein*	T6703 <i>Verbascum saccatum</i>	NANG ZHUANG MAO RUI HUA
Sachalin Eupatorium*	T2573 <i>Eupatorium sachalinense</i> [Syn. <i>Eupatorium glehni</i>]	KU YE DAO ZE LAN
Sachalin Monkshood*	T0127 <i>Aconitum sachalinense</i>	KU YE WU TOU
Sachaline Corktree*	T4794 <i>Phellodendron sachalinense</i>	KU YE DAO HUANG BAI
Sacred Spindle-tree	T2546 <i>Euonymus sacrosancta</i>	MAO YE WEI MAO
Safflower	T1215 <i>Carthamus tinctorius</i>	HONG HUA
Saffron Crocus Stigma	T1808 <i>Crocus sativus</i>	ZANG HONG HUA
Saghalin Spruce	T4870 <i>Picea glehnii</i>	SA HA LIN YUN SHAN
Sagittate Epimedium	T2402 <i>Epimedium sagittatum</i>	JIAN YE YIN YANG HUO
Sago Frond	T1928 <i>Cycas revoluta</i>	SU TIE YE
Sago Seed	T1927 <i>Cycas revoluta</i>	SU TIE SHU GUO
Saline Cistanche	T1456 <i>Cistanche salsa</i>	YAN SHENG ROU CONG RONG
Saline Saussurea	T5768 <i>Saussurea salsa</i>	YAN DI FENG MAO JU
Saline Swainsonia	T6210 <i>Swainsonia salsula</i> [Syn. <i>Sphaerophysa salsula</i>]	KU MA DOU
Salsify	T6489 <i>Tragopogon porrifolius</i>	SUAN YE PO LUO MEN SHEN
Saltliving Anabasis	T0437 <i>Anabasis salsa</i>	YAN SHENG JIA MU ZEI
Salt-loving Iris	T3460 <i>Iris halophila</i>	XI YAN YUAN WEI
Salutary Croton*	T1854 <i>Croton salutaris</i>	YI KANG BA DOU
<i>Salvia pisdica</i>	T5684 <i>Salvia pisdica</i>	DU YU SHU WEI CAO
Salviaflower Coralbean*	T2473 <i>Erythrina salviiiflora</i>	SHU WEI CAO HUA CI TONG
Salwin Camellia	T1148 <i>Camellia saluenensis</i>	NU JIANG SHAN CHA
Samalanga Syzygium	T6268 <i>Syzygium samarangense</i>	YANG PU TAO YE
Sampson St. John'swort	T3363 <i>Hypericum sampsonii</i>	YUAN BAO CAO
Sanchi	T4608 <i>Panax pseudo-ginseng</i> var. <i>notoginseng</i> [Syn. <i>Panax notoginseng</i>]	SAN QI
Sanchi Buds	T4609 <i>Panax pseudo-ginseng</i> var. <i>notoginseng</i> [Syn. <i>Panax notoginseng</i>]	SAN QI HUA LEI
Sanctity Blackberry*	T5597 <i>Rubus sanctus</i>	SHEN SHENG XUAN GOU ZI
Sand Pear Leaf	T5366 <i>Pyrus pyrifolia</i>	SHA LI YE
Sandal Beadtree	T0167 <i>Adenantha pavonina</i>	HAI HONG DOU
Sandalwood	T5715 <i>Santalum album</i>	TAN XIANG
Sandalwood Padauk	T5305 <i>Pterocarpus santalinus</i>	SI ZI TAN
Sandbox-tree	T3296 <i>Hura crepitans</i>	SHA HE SHU
Sandland Milkwort*	T5083 <i>Polygala sabulosa</i>	SHA DI YUAN ZHI

Sandliving Sophora	T6039 <i>Sophora moorcroftiana</i>	SHA SHENG HUAI
Sandwich Eugenia*	T2534 <i>Eugenia sandwicensis</i>	SAN WEI ZHI FAN YING TAO
Sanguineous Spikemoss	T5866 <i>Selaginella sanguinolenta</i>	YUAN ZHI JUAN BAI
Santonica	T0683 <i>Artemisia maritima</i>	BIN HAO
Sappan Caesalpinia	T1108 <i>Caesalpinia sappan</i>	SU MU
Sargent Cypress	T1898 <i>Cupressus sargentii</i>	SA JIN TE BAI MU
Sargentgloryvine	T5741 <i>Sargentodoxa cuneata</i>	DA XUE TENG
Sariola Lettuce*	T3661 <i>Lactuca sariola</i>	SA LI LA WO JU
Sarmentose Pepper	T4965 <i>Piper sarmentosum</i>	JIA JU
Sarmentose Pepper Spike	T4966 <i>Piper sarmentosum</i>	JIA JU ZI
Sasak Stephania*	T6132 <i>Stephania sasakii</i>	TAI WAN QIAN JIN TENG
Sasanqua Camellia	T1149 <i>Camellia sasanqua</i>	CHA MEI
Sassafras	T5744 <i>Sassafras albidum</i>	MEI ZHOU CHA MU
Satsuma	T1518 <i>Citrus unshiu</i>	WU HE MI JU
Sausageteer	T3629 <i>Kigelia pinnata</i>	DIAO DENG SHU
Sawara False Cypress	T1350 <i>Chamaecyparis pisifera</i>	RI BEN HUA BAI
Savin	T5640 <i>Sabina vulgaris</i>	CHOU BAI
Savin Juniper	T3595 <i>Juniperus sabina</i>	CHA ZI YUAN BAI
Savory Rhododendron	T5502 <i>Rhododendron anthopogonoides</i>	XIAO YE PI PA
Savoy Cabbage	T1020 <i>Brassica oleracea</i> var. <i>sabauda</i>	YU YI GAN LAN
Sawtooth Clubmoss*	T3977 <i>Lycopodium serratum</i> var. <i>thunbergii</i>	JU CHI SHI SONG
Scabrous Boulder Fern	T2113 <i>Dennstaedtia scabra</i> [Syn. <i>Dicksonia scabra</i>]	WAN JUE
Scabrous Cowparsnip	T3222 <i>Heracleum scabridum</i>	DIAN BAI ZHI
Scabrous Doellingeria	T2244 <i>Doellingeria scaber</i> [Syn. <i>Aster scaber</i>]	DONG FENG CAI
Scabrous Elephantfoot	T2334 <i>Elephantopus scaber</i>	KU DI DAN
Scabrous Gay-feather*	T3791 <i>Liatris scabra</i>	CU CAO SHE BIAN JU
Scabrous Gentian*	T2931 <i>Gentiana scabra</i> var. <i>buesgeri</i>	CU CAO LONG DAN
Scabrous Mosla	T4307 <i>Mosla scabra</i> [Syn. <i>Mosla punctata</i>]	SHI JI NING
Scabrous Patrinia	T4673 <i>Patrinia scabra</i>	CAO YE BAI JIANG
Scale Figwort*	T5827 <i>Scrophularia lepidota</i>	LIN PIAN XUAN SHEN
Scale Licorice*	T3017 <i>Glycyrrhiza lepidota</i>	MEI ZHOU GAN CAO
Scaly Blazing Star	T3794 <i>Liatris squarrosa</i>	CU SHE BIAN JU
Scalyseed Ephedra	T2371 <i>Ephedra lepidosperma</i>	BAN ZI MA HUANG
Scammony Glorybind	T1654 <i>Convolvulus scammonia</i>	SI GE MENG XUAN HAU
Scandent Schefflera	T5781 <i>Schefflera arboricola</i>	E ZHANG TENG
Scarlet Caterpillar Fungus	T1680 <i>Cordyceps militaris</i>	YONG CHONG CAO
Scarlet Kafirlily	T1578 <i>Clivia miniata</i>	JUN ZI LAN
Scarlet Pimpernel	T0440 <i>Anagallis arvensis</i>	LIU LI FAN LV
Scarlet Runner Bean	T4781 <i>Phaseolus coccineus</i>	DUO HUA CAI DOU
Scarlet Sage	T5693 <i>Salvia splendens</i>	XI YANG HONG
Scarlet Swertia	T6234 <i>Swertia punicea</i>	ZI HONG ZHANG YA CAI
Scheffleri Uvaria*	T6667 <i>Uvaria scheffleri</i>	XIE FEI ZI YU PAN
Schischkin Foxglove*	T2178 <i>Digitalis schischkinii</i>	SI SHI MAO DI HUANG
Schleicher Fumitory	T2809 <i>Fumaria schleicheri</i>	YAN JIN
<i>Schoenocaulon officinale</i>	T5808 <i>Schoenocaulon officinale</i>	WEI JING BAI HE
Schrenk Wormwood*	T0694 <i>Artemisia schrenkiana</i>	XUE LING HAO
Scorpion	T1084 <i>Buthus martensi</i>	QUAN XIE
Scorzonera	T5824 <i>Scorzonera hispanica</i>	XI JUAN YA CONG
Scotch Broom	T1991 <i>Cytisus scoparius</i> [Syn. <i>Spartium scoparium</i>]	JIN QUE ER
Scotch Cottonthistle	T4494 <i>Onopordum acanthium</i>	DA CHI JI
Scotch Pine	T4926 <i>Pinus sylvestris</i>	OU ZHOU CHI SONG
Scots Lovage	T3823 <i>Ligusticum scoticum</i>	SU GE LAN DANG GUI
Scouler Corydalis*	T1739 <i>Corydalis scouleri</i>	SI KAO LE ZI JIN

Scythian Lamb	T1411 <i>Cibotium barometz</i> [Syn. <i>Polypodium barometz</i>]	JIN MAO GOU
Sea Euphorbia*	T2607 <i>Euphorbia paralias</i>	HAI YANG DA JI
Seabuckthorn Fruit	T3254 <i>Hippophae rhamnoides</i>	CU LIU GUO
Sea-cucumber Intestines	T6145 <i>Stichopus japonicus</i>	HAI SHEN CHANG
Seashore Angelica*	T0486 <i>Angelica keiskei</i>	BIN HAI DANG GUI
Sector Pluchea	T0845 <i>Baccharis flabellata</i>	SHAN XING KUO BAO JU
Seibo Euonymus*	T2547 <i>Euonymus sieboldianus</i>	XI BO SHI WEI MAO
Selago-like Climbing Fern	T3294 <i>Huperzia selago</i> [Syn. <i>Lycopodium selago</i>]	XIAO JIE JIN CAO
Sello Basil*	T4475 <i>Ocimum selloi</i>	SAI LE LUO LE
Semi-frutex Mayweed*	T4125 <i>Matricaria suffruticosa</i>	BAN GUAN MU MU JU
Semiserration Eupatorium*	T2574 <i>Eupatorium semiserratum</i>	BAN JU CHI ZHUANG ZE LAN
Senega Snakeroot	T5084 <i>Polygala senega</i>	MEI YUAN ZHI
Senegal Coralbean*	T2474 <i>Erythrina senegalensis</i>	SAI NEI JIA ER CI TONG
Senegalese Strophanthus*	T6159 <i>Strophanthus sarmentosus</i> var. <i>senegambiae</i>	XI FEI YANG JIAO AO
Senna Lemongrass*	T1947 <i>Cymbopogon sennaarensis</i>	XIN NONG XIANG MAO
Sensitive Plant	T4248 <i>Mimosa pudica</i>	HAN XIU CAO
Sensitiveplant-like Senna	T1238 <i>Cassia mimosoides</i>	SHAN BIAN DOU ZI
Seoul Siebold Wildginger	T0732 <i>Asarum sieboldii</i> var. <i>seoulensis</i>	HAN CHENG XI XIN
Sepiaria	T0197 <i>Aegle marmelos</i>	MU ⁽⁴⁾ JU
Septemlobate Kalopanax Bark	T3625 <i>Kalopanax septemlobus</i>	CI QIU SHU PI
Septic Fig*	T2726 <i>Ficus septica</i>	FU YE RONG
Serbian Yarrow	T0059 <i>Achillea alexandri-regis</i>	SAI ER WEI YA SHI CAO
Sericeous Cinquefoil	T5186 <i>Potentilla reptans</i> var. <i>sericophylla</i>	JIN JIN BANG
Sericeous Newlitse	T4406 <i>Neolitsea sericea</i>	ZHOU SHAN XIN MU JIANG ZI
Sericeous Pluchea*	T5025 <i>Pluchea sericea</i>	JUAN MAO KUO BAO JU
Sericeous-leaf Rosewood	T2012 <i>Dalbergia sericea</i>	JUAN MAO HUANG TAN
Serpent-head	T4505 <i>Ophiocephalus argus</i>	WU LI
Serrate Chloranthus	T1372 <i>Chloranthus serratus</i>	JI JI
Serrate Chloranthus Stem-leaf	T1373 <i>Chloranthus serratus</i>	JI JI JING YE
Serrate Clubmoss	T3295 <i>Huperzia serrata</i> [Syn. <i>Lycopodium serratum</i>]	QIAN CENG TA
Serrate Glorybower	T1561 <i>Clerodendron serratum</i>	SAN TAI HONG HUA
Serrate Mulberry*	T4299 <i>Morus serrata</i>	JU CHI SANG
Serrate Rabdosia	T5397 <i>Rabdosia serra</i>	XI HUANG CAO
Serrate-leaf Myrsine	T4364 <i>Myrsine semiserrata</i>	CHI YE TIE ZI
Serrate-leaved Mayten	T4139 <i>Maytenus serrata</i>	CHI YE MEI DENG MU
Sessile Neonauclea	T4408 <i>Neonauclea sessilifolia</i> [Syn. <i>Nauclea sessilifolia</i> ; <i>Adina sessilifolia</i>]	WU BING XIN WU TAN
Sessile Stemona	T6113 <i>Stemona sessilifolia</i>	ZHI LI BAI BU
Sessileflower Acanthopanax Root-bark	T0044 <i>Acanthopanax sessiliflorus</i>	WU GENG WU JIA PI
Sessile-fruit Chinaure	T0967 <i>Boenninghausenia sessilicarpa</i>	SHI JIAO CAO
Setose Abelmoschus	T0001 <i>Abelmoschus manihot</i>	HUANG SHU KUI HUA
Setose Asparagus	T0753 <i>Asparagus setaceus</i> [Syn. <i>Asparagus plumosus</i>]	WEN ZHU
Setose Thistle	T1451 <i>Cirsium setosum</i> [Syn. <i>Cerratula setosa</i> ; <i>Cirsium segetum</i> ; <i>Cephalanoplos segetum</i>]	XIAO JI
Sevenlobed Yam	T2208 <i>Dioscorea septemloba</i>	MIAN BI XIE
Sewerzow Corydalis*	T1741 <i>Corydalis sewerzowi</i>	XIE SHI ZI JIN
Seville Orange Unripe Fruit	T1467 <i>Citrus aurantium</i>	ZHI KE
Seville Orange Young Fruit	T1468 <i>Citrus aurantium</i>	ZHI SHI
Shackshack Crostalaria	T1821 <i>Crostalaria incana</i>	GUANG YE ZHU SHI DOU
Shady Broadleaf Rabdosia*	T3532 <i>Isodon umbrosa</i>	YIN DI KUAN YE XIANG CHA CAI
Shady Groundsel	T5892 <i>Senecio nemorensis</i>	HUANG WAN
Shady Rabdosia*	T3533 <i>Isodon umbrosa</i> var. <i>latifolia</i>	YIN DI XIANG CHA CAI
Shagbark Hickory	T1219 <i>Carya ovata</i>	CU PI SHAN HE TAO

Shagspine Peashrub	T1190 <i>Caragana jubata</i>	GUI JIAN JIN JI ER
Shallot	T0310 <i>Allium ascalonicum</i>	HU CONG
Shandong Hypodematium	T3372 <i>Hypodematium sinense</i>	SHAN DONG ZHONG ZU JUE
Shanyang Monkshood*	T0128 <i>Aconitum sanyoense</i>	SHAN YANG WU TOU
Sharpleaf Clubmoss*	T3966 <i>Lycopodium annotinum</i> var. <i>acrifolium</i>	LIANG NIAN SHI SONG
Sharpleaf Galangal	T0360 <i>Alpinia oxyphylla</i>	YI ZHI REN
Sharpleaf Gambirplant	T6629 <i>Uncaria rhynchophylla</i> [Syn. <i>Nauclea rhynchophylla</i>]	GOU TENG
Sharpleaf Leafflower*	T4832 <i>Phyllanthus acuminatus</i>	JIAN YE YE XIA ZHU
Sharpleaf Mangrove	T5487 <i>Rhizophora apiculata</i>	HONG SHU
Sharpleaf Meadowrue	T6372 <i>Thalictrum acutifolium</i>	JIAN YE TANG SONG CAO
Sharpleaf Sabia	T5638 <i>Sabia swinhoei</i>	JIAN YE QING FENG TENG
Sharpleaf Senna Leaf	T1229 <i>Cassia acutifolia</i>	JIAN YE FAN XIE YE
Sharpspur Corydalis	T1745 <i>Corydalis suaveolens</i> [Syn. <i>Corydalis sheareri</i>]	JIAN JU ZI JIN
Sharptooth Incarvillea	T3418 <i>Incarvillea arguta</i>	MA TONG HUA
Shearer's Pyrrosia Frond	T5360 <i>Pyrrosia sheareri</i>	LU SHAN SHI WEI
Sheathstipe Greenbrier	T5984 <i>Smilax stans</i> [Syn. <i>Smilax vaginata</i> var. <i>stans</i>]	QIAO BING BA QIA
Shellfish Pricklyash	T6876 <i>Zanthoxylum dissitum</i>	DA YE HUA JIAO
Shellfish Pricklyash Root	T6877 <i>Zanthoxylum dissitum</i>	DA YE HUA JIAO GEN
Shepherdspurse	T1184 <i>Capsella bursa-pastoris</i>	JI CAI
Shepherdspurse Seed	T1185 <i>Capsella bursa-pastoris</i>	JI CAI ZI
Shield Floatingheart	T4456 <i>Nymphoides peltatum</i>	XING CAI
Shiko Rabdosia*	T5398 <i>Rabdosia shikokiana</i>	SI GUO XIANG CHA CAI
Shining Adinandra*	T0182 <i>Adinandra nitida</i>	GUANG LIANG YANG TONG
Shining Clubmoss*	T3974 <i>Lycopodium lucidulum</i>	GUANG LIANG SHI SONG
Shining Devilpepper*	T5438 <i>Rauwolfia nitida</i>	GUANG LIANG LUO FU MU
Shining Gentianella*	T2940 <i>Gentianella nitida</i>	GUANG LIANG JIA LONG DAN
Shining Milkwort*	T5078 <i>Polygala nitida</i>	GUANG LIANG YUAN ZHI
Shining Rosewood*	T2006 <i>Dalbergia nitidula</i>	GUANG LIANG HUANG TAN
Shingleleaf Birch Bark	T0932 <i>Betula luminifera</i>	LIANG YE HUA PI
Shingleleaf Millettia	T4238 <i>Millettia nitida</i>	LIANG YE YAN DOU TENG
Shiny Bugleweed	T3980 <i>Lycopus lucidus</i>	ZE LAN
Shiny Bugleweed Root	T3981 <i>Lycopus lucidus</i>	ZE LAN GEN
Shiny Peperomia	T4705 <i>Peperomia pellucida</i>	CAO HU JIAO
Shinyleaf Pricklyash	T6884 <i>Zanthoxylum nitidum</i>	RU DI JIN NIU
Shinyleaf yellowhorn	T6845 <i>Xanthoceras sorbifolia</i>	WEN GUAN MU
Shkioki Angelica*	T0494 <i>Angelica shkiokiana</i>	SHI SHI DANG GUI
Shore Juniper	T3585 <i>Juniperus conferta</i>	AN CI BAI
Shore Podgrass	T6526 <i>Triglochin maritimum</i>	HAI JIU CAI
Shortbractleaf Galingale*	T1974 <i>Cyperus brevibracteatus</i>	DUAN BAO YE SHA CAO
Shortbraet Honeysuckle	T3918 <i>Lonicera similis</i>	XI ZHAN MAO REN DONG
Shortclustered Plantainlily	T3283 <i>Hosta sieboldiana</i>	DA YU BIAO HUA
Shortflower Bottle Gourd*	T3667 <i>Lagenaria breviflora</i>	DUAN HUA HU LU
Shortflower Crotalaria*	T1816 <i>Crotalaria breviflora</i>	DUAN HUA ZHU SHI DOU
Shortfluff Consolida*	T1648 <i>Consolida pubescens</i>	DUAN ROU MAO FEI YAN CAO
Shortfluff Dutchmanspipe*	T0636 <i>Aristolochia pubescens</i>	DUAN ROU MAO MA DOU LING
Shortfluff Euphorbia*	T2613 <i>Euphorbia pubescens</i>	DUAN ROU MAO DA JI
Shortfluff Holarrhena*	T3268 <i>Holarrhena pubescens</i>	DUAN ROU MAO ZHI XIE MU
Shorthair Cowparsnip	T3217 <i>Heracleum moellendorffii</i> [Syn. <i>Heracleum microcarpum</i> ; <i>Heracleum morifolium</i>]	DUAN MAO DU HUO
Shorthairy Antenoron	T0519 <i>Antenoron neofiliforme</i>	DUAN MAO JIN XIAN CAO GEN
Shorthorned Epimedium	T2390 <i>Epimedium brevicornum</i>	YIN YANG HUO
Shorthorned Epimedium Root	T2391 <i>Epimedium brevicornum</i>	YIN YANG HUO GEN
Shortleaf Agave	T0219 <i>Agave cantala</i>	XIA YE LONG SHE LAN

Shortleaf Anabasis	T0436 <i>Anabasis brevifolia</i>	DUAN YE JIA MU ZEI
Shortleaf Crotalaria*	T1817 <i>Crotalaria brevifolia</i>	DUAN YE ZHU SHI DOU
Shortleaf Gentian*	T2904 <i>Gentiana brachyphylla</i>	DUAN YE LONG DAN
Shortleaf Kyllinga	T3646 <i>Kyllinga brevifolia</i>	SHUI WU GONG
Shortleaf Wormwood*	T0667 <i>Artemisia brevifolia</i>	DUAN YE JUAN HAO
Shortlobe Ligusticum	T3819 <i>Ligusticum brachylobum</i>	DUAN PIAN GAO BEN
Shortpetalflower	T1001 <i>Brachystemma calycinum</i>	DUAN BAN HUA
Shortscape Fleabane	T2422 <i>Erigeron breviscapus</i>	DENG ZHAN XI XIN
Shortsepal Goldthread	T1663 <i>Coptis chinensis</i> var. <i>brevisejala</i>	DUAN E HUANG LIAN
Shortspike Pepper*	T4939 <i>Piper brachystachyum</i>	DUAN SUI HU JIAO
Shortspine Pricklyash*	T6868 <i>Zanthoxylum brachyacanthum</i>	DUAN CI HUA JIAO
Shortstalk Bushclover	T3771 <i>Lespedeza cyrtobotrya</i>	DUAN GENG HU ZHI ZI
Shortstalk Monkshood	T0079 <i>Aconitum brachypodum</i>	XUE SHANG YI ZHI HAO
Shortstamen Stephania*	T6118 <i>Stephania brachyandra</i>	BAI XIAN SHU
Shortstem Archangelica*	T0582 <i>Archangelica brevicaulis</i> [Syn. <i>Angelicarpa brevicaulis</i> ; <i>Angelica brevicaulis</i>]	DUA JING GU DANG GUI
Short-stipe Agrostophyllum*	T0253 <i>Agrostophyllum brevipes</i>	DUAN BING HE YE LAN
Short-stipe Liriope*	T3872 <i>Liriope muscari</i>	DUAN TING SHAN MAI DONG
Shorttooth Milkvetch*	T0788 <i>Astragalus canadensis</i> var. <i>brevidens</i>	DUAN CHI HUANG QI
Shorttube Lycoris	T3986 <i>Lycoris radiata</i> [Syn. <i>Amaryllis radiata</i>]	SHI SUAN
Shoulang Yam	T2193 <i>Dioscorea cirrhosa</i> [Syn. <i>Dioscorea pogonoides</i>]	SHU LIANG
Showy Bleedingheart Root	T2154 <i>Dicentra spectabilis</i>	HE BAO MU DAN GEN
Showy Mountainsah	T6054 <i>Sorbus decora</i>	MEI LI HUA QIU
Shrub Lespedeza	T3769 <i>Lespedeza bicolor</i>	HU ZHI ZI
Shrub Thoroughwax (Shrubby Hare's-ear)	T1062 <i>Bupleurum fruticosum</i>	GUAN MU CHAI HU
Shrubalthea Bark	T3245 <i>Hibiscus syriacus</i>	MU JIN PI
Shrubalthea Flower	T3244 <i>Hibiscus syriacus</i>	MU JIN HUA
Shrubalthea Fruit	T3246 <i>Hibiscus syriacus</i>	MU JIN ZI
Shrubby Ajania	T0260 <i>Ajania fruticulosa</i>	GUAN MU YA JU
Shrubby Asparagus*	T0748 <i>Asparagus dumosus</i>	GUAN MU TIAN MEN DONG
Shrubby Baeckea	T0853 <i>Baeckea frutescens</i>	GANG SONG
Shrubby Clover*	T6519 <i>Trifolium fruticosum</i>	GUAN MU ZHUANG CHE ZHOU CAO
Shrubby Crinum* 'bush' or 'march lily'	T1801 <i>Crinum macowanii</i>	GUAN MU WEN SHU LAN
Shrubby Devilpepper*	T5434 <i>Rauwolfia fruticosa</i>	GUAN MU LUO FU MU
Shrubby Holly*	T3391 <i>Ilex dumosa</i>	GUAN CONG DONG QING
Shrubby Milkwort*	T5076 <i>Polygala fruticosa</i>	GUAN MU YUAN ZHI
Shrubby Otostegia*	T4557 <i>Otostegia fruticosa</i>	GUAN MU AO TUO SI TE CAO
Shrubby Woodwardia	T6830 <i>Woodfordia fruticosa</i>	XIA ZI HUA
Siam Falsenettle	T0963 <i>Boehmeria siamensis</i>	SHU XU ZHU MA
Siam Rosewood	T1999 <i>Dalbergia cochinchinensis</i>	JIAO ZHI HUANG TAN
Siamense Common Jasminorange	T4327 <i>Murraya siamensis</i>	YUAN DONG JIU LI XIANG
Siamese Senna	T1244 <i>Cassia siamea</i>	TIE DAO MU
Siberia Thorowax	T1073 <i>Bupleurum sibiricum</i>	XING AN CHAI HU
Siberian Adonis	T0188 <i>Adonis sibirica</i>	BEI CE JIN ZHAN HUA
Siberian Cocklebur	T6843 <i>Xanthium sibiricum</i> [Syn. <i>Xanthium strumarium</i>]	CANG ER
Siberian Corydalis	T1742 <i>Corydalis sibirica</i>	BEI ZI JIN
Siberian Cranesbill	T2947 <i>Geranium sibiricum</i>	SHU ZHANG LAO GUAN CAO
Siberian Elm	T6597 <i>Ulmus pumila</i>	YU SHU
Siberian Fir	T0007 <i>Abies sibirica</i>	XI BO LI YA LENG SHAN
Siberian Fritillary	T2790 <i>Fritillaria pallidiflora</i>	YI BEI MU
Siberian Goldenray	T3813 <i>Ligularia sibirica</i>	XI BO LI YA TOU WU
Siberian Hazelnut	T1751 <i>Corylus heterophylla</i>	ZHEN

Siberian Knotweed*	T5115 <i>Polygonum sibiricum</i> [Syn. <i>Persicaria sibirica</i>]	XI BO LI YA LIAO[yn
Siberian Milkwort	T5086 <i>Polygala sibirica</i>	XI BO LI YA YUAN ZHI
Siberian Motherwort	T3754 <i>Leonurus sibiricus</i>	XI YE YI MU CAO
Siberian Phlojodicarpus	T4804 <i>Phlojodicarpus sibiricus</i>	ZHANG GUO QIN
Siberian Solomonseal	T5095 <i>Polygonatum sibiricum</i>	HUANG JING
Siberian Spruce	T4875 <i>Picea obovata</i>	XI BO LI YA YUN SHAN
Siberian Stone Pine	T4923 <i>Pinus sibirica</i>	XI BO LI YA HONG SONG
Siberian Tansy	T6295 <i>Tanacetum sibiricum</i> [Syn. <i>Filifolium sibiricum</i>]	SI BO LI YA AI JU
Siberian Veronicastrum	T6731 <i>Veronicastrum sibiricum</i>	ZHAN LONG JIAN
Sichuna Rabdosia	T3525 <i>Isodon setschwanensis</i>	SI CHUAN XIANG CHA CAI
Sickle Alfalfa	T4147 <i>Medicago falcata</i>	YE MU XU
Sickle Senna Seed	T1250 <i>Cassia tora</i>	JUE MING ZI
Sickle-leaved Hare's-ear	T1060 <i>Bupleurum falcatum</i>	ZI HU
Sieber Acacia*	T0029 <i>Acacia sieberiana</i>	XI BO JIN HE HUAN
Sieber Senna	T1245 <i>Cassia sieberiana</i>	XI BO JUE MING
Siebold Alder*	T0331 <i>Alnus sieboldiana</i>	XI BO DE QI MU
Siebold Elder	T5705 <i>Sambucus sieboldiana</i>	LAN SHAI PIAO
Siebold Greenbrier	T5982 <i>Smilax sieboldii</i>	NIAN YU XU
Siebold Wildginger	T0731 <i>Asarum sieboldii</i>	XI XIN
Sieve Sedge	T1202 <i>Carex kobomugi</i>	SHA ZUAN TAI CAO
Sievers Wormwood	T0696 <i>Artemisia sieversiana</i>	BAI HAO
Sieversia Milkvetch	T0804 <i>Astragalus sieversianus</i>	MIAN MAO HUANG QI
Sikkim Mahonia	T4073 <i>Mahonia sikkimensis</i>	XI JIN SHI DA GONG LAO
Sikkim Microula	T4227 <i>Microula sikkimensis</i>	WEI KONG CAO
Siko Milkvetch*	T0803 <i>Astragalus shikokianus</i>	SI GUO HUANG QI
Siko Stringbush*	T6823 <i>Wikstroemia sikokiana</i>	SI GUO YAO HUA
Siliculose Onychium	T4504 <i>Onychium siliculosum</i>	JIN FEN JUE
Silk Cocoon	T0976 <i>Bombyx mori</i>	CAN JIAN
Silk Mulberry*	T4292 <i>Morus bombycis</i>	CAN SANG
Silk-rubber Tree	T2811 <i>Funtumia elastica</i>	SI JIAO SHU
Silktree Albizia Bark	T0292 <i>Albizzia julibrissin</i>	HE HUAN PI
Silkworm Egg	T0979 <i>Bombyx mori</i>	YUAN CAN ZI
Silkworm Feculae	T0978 <i>Bombyx mori</i>	YUAN CAN SHA
Silkworm King	T0977 <i>Bombyx mori</i>	YUAN CAN E
Silkworm Larva	T0975 <i>Bombyx mori</i>	BAI JIANG CAN
Silky Ant	T2753 <i>Formica fusca</i>	HEI MA YI
Silky Rose	T5573 <i>Rosa sericea</i>	JUAN MAO QIANG WEI
Silver Maple	T0055 <i>Acer saccharinum</i>	YIN BAI QI
Silver Ragwort	T5885 <i>Senecio cineraria</i>	YIN BAI QIAN LI GUANG
Silver Wattle	T0020 <i>Acacia dealbata</i>	YIN BAI JIN HE HUAN
Silveredge Agave	T0218 <i>Agave angustifolia</i> var. <i>marginata</i>	YIN BIAN LONG SHE LAN
Silverleaf Cotoneaster	T1761 <i>Cotoneaster pannosus</i>	ZHAN MAO XUN ZI
Silverleaf Morningglory*	T3445 <i>Ipomoea argyrophylla</i>	YIN YE SHU
Silverweed Cinquefoil	T5179 <i>Potentilla anserina</i>	E RONG WEI LING CAI
Silvervine Actinidia	T0164 <i>Actinidia polygama</i>	MU TIAN LIAO
Silvery Aleuritopteris	T0301 <i>Aleuritopteris argentea</i>	TONG JING CAO
Simon Poplar	T5158 <i>Populus simonii</i>	XIAO YE YANG
Simons Mahonia	T4074 <i>Mahonia simonsii</i>	XI MENG SI SHI DA GONG LAO
Simple Arachniodes	T0565 <i>Arachniodes simplicior</i>	CHANG WEI FU YE ER JUE
Simple Digenea Frond	T2173 <i>Digenea simplex</i>	HAI REN CAO
Simple Pronephrium	T5209 <i>Pronephrium simplex</i> [Syn. <i>Meniscium simplex</i>]	DAN YE XIN YUE JUE
Simple Rostellularia	T3610 <i>Justicia simplex</i>	DAN JUE CHUANG
Simpleleaf Shrub Chastetree	T6790 <i>Vitex rotundifolia</i> [Syn. <i>Vitex trifolia</i> var. <i>simplicifolia</i>]	DAN YE MAN JING

Simpleleaf Shrub Chastetree Fruit	T6791 <i>Vitex rotundifolia</i> [Syn. <i>Vitex trifolia</i> var. <i>simplicifolia</i>]	DAN YE MAN JING ZI
Simplex Rice-flower*	T4893 <i>Pimelea simplex</i>	DAN ZHI DAO HUA
Singharanut	T6492 <i>Trapa bispinosa</i>	LING
Singkwa Towelgourd	T3933 <i>Luffa acutangula</i>	YUE SI GUA
Singleleaf Acronychia*	T0149 <i>Acronychia haplophylla</i>	DAN YE YOU GAN
Sinkiang Fritillary	T2800 <i>Fritillaria walujewii</i>	XIN JIANG BEI MU
Sinkiang Globethistle	T2317 <i>Echinops ritro</i>	XIN JIANG LAN CI TOU
Sinkiang Poplar*	T5146 <i>Populus alba</i> var. <i>pyramidalis</i>	XIN JIANG YANG
Sinkiang-Tibet Arnebia	T0648 <i>Arnebia euchroma</i>	XIN ZANG JIA ZI CAO
Siris-acacia	T0293 <i>Albizia lebbek</i>	KUO JIA HE HUAN
Sisal Hemp-plant	T0226 <i>Agave sisalana</i>	JIAN MA
Sisso Rosewood	T2013 <i>Dalbergia sissoo</i>	YIN DU HUANG TAN
Sitka Spruce	T4876 <i>Picea sitchensis</i>	XI TE KA YUN SHAN
Sixangular Dysosma	T2302 <i>Dysosma pleiantha</i> [Syn. <i>Podophyllum pleianthum</i>]	LIU JIAO LIAN
Sixpetal Tailgrape	T0653 <i>Artabotrys hexapetalus</i> [Syn. <i>Annona hexapetalus</i>]	YING ZHAO
Skin-carp	T3199 <i>Hemibarbus labeo</i>	CHONG CHUN YU
Skunk Cabbage	T3994 <i>Lysichitum americanum</i>	MEI ZHOU GUAN YIN LIAN
Skyblue Broomrape	T4536 <i>Orobancha coerulescens</i>	LIE DANG
Slamm Black Poplar	T5166 <i>Populus xiaohei</i>	XIAO HEI YANG
Sleeping Lotusleafing	T3230 <i>Hernandia nymphaeifolia</i>	SHUI LIAN YE TONG
Slender Dutchmanspipe	T0626 <i>Aristolochia debilis</i> [Syn. <i>Aristolochia longa</i>]	MA DOU LING
Slender Dutchmanspipe Root	T0627 <i>Aristolochia debilis</i> [Syn. <i>Aristolochia longa</i>]	QING MU XIANG
Slender Maesa	T4032 <i>Maesa tenera</i>	RUAN RUO DU JING SHAN
Slender Periwinkle*	T1270 <i>Catharanthus pusillus</i>	XI XIAO CHANG CHUN HUA
Slender Phlegmariurus	T4801 <i>Phlegmariurus phlegmaria</i> [Syn. <i>Lycopodium phlegmaria</i>]	MA WEI SHAN
Slender-leaf Crotalaria	T1822 <i>Crotalaria intermedia</i>	XI YE ZHU SHI DOU
Slenderstalk Dicranostigma	T2162 <i>Dicranostigma franchetianum</i> [Syn. <i>Dicranostigma leptopodum</i>]	TU CHUANG HUA
Slenderstalk Litsea*	T3889 <i>Litsea gracilipes</i>	XI BING MU JIANG ZI
Slenderstyle Acanthopanax Root-bark	T0038 <i>Acanthopanax gracilistylus</i>	WU JIA PI
Slim-top Meadowrue	T6409 <i>Thalictrum simplex</i> [Syn. <i>Thalictrum simplex</i> var. <i>brevipes</i>]	YING SHUI HUANG LIAN
Slimy Rabdosia	T3492 <i>Isodon glutinosa</i>	JIAO NIAN XIANG CHA CAI
Slimy Tobacco*	T4425 <i>Nicotiana glutinosa</i>	JIAO YAN CAO
Slimysheathed Waxy Cap 橄欖白蜡伞	T3313 <i>Hygrophorus olivaceoalbus</i>	
Sloughy Litsea*	T3896 <i>Litsea turfosa</i>	NI ZHAO MU JIANG ZI
Small Beefwood*	T1259 <i>Casuarina stricta</i>	XIAO MU MA HUANG
Small Bugbane	T1417 <i>Cimicifuga acerina</i>	SAN MIAN DAO
Small Burnet*	T5711 <i>Sanguisorba minor</i>	XIAO DI YU
Small Centipeda	T1312 <i>Centipeda minima</i>	E BU SHI CAO
Small Ephedra	T2373 <i>Ephedra minuta</i>	AI MA HUANG
Small Gorse*	T6591 <i>Ulex minor</i>	XIAO JING DOU
Small Ochotsk Corydalis	T1729 <i>Corydalis ochotensis</i> var. <i>raddeana</i>	XIAO HUANG ZI JIN
Small Piptanthus*	T4975 <i>Piptanthus nanus</i>	XIAO SHA DONG QING
Small Rattle-box	T1827 <i>Crotalaria nana</i>	XIAO ZHU SHI DOU
Small Ungernia*	T6641 <i>Ungernia minor</i>	XIAO BO SI SHI SUAN
Small Yellow Daylily	T3197 <i>Hemerocallis minor</i>	XIAO XUAN CAO GEN
Smallcalyx Woodbetony	T4681 <i>Pedicularis decora</i>	MEI GUAN MA XIAN HAO
Smaller Concave-top Alga*	T3718 <i>Laurencia majuscula</i>	LUE DA AO DING ZAO
Smallflower Acanthus*	T0047 <i>Acanthus ebracteatus</i>	XIAO HUA LAO SHU LE.
Smallflower Beggarticks	T0939 <i>Bidens parviflora</i>	XIAO HUA GUI ZHEN
Smallflower Bruguiera Fruit*	T1040 <i>Bruguiera parviflora</i>	XIAO HUA MU LAN GUO
Smallflower Bugle*	T0268 <i>Ajuga parviflora</i>	XIAO HUA XIA KU CAO
Smallflower Embelia	T2347 <i>Embelia parviflora</i>	XIAO HUA SUAN TENG ZI

Smallflower Hemsleya	T3207 <i>Hemsleya graciliflora</i> [Syn. <i>Alsomitra graciliflora</i>]	XI HUA XUE DAN
Smallflower Magnoliavine*	T5795 <i>Schisandra micrantha</i>	XIAO HUA WU WEI ZI
Smallflower Milkwort	T5087 <i>Polygala telephioides</i>	XIAO HUA YUAN ZHI
Smallflower Mimosa*	T4250 <i>Mimosa tenuiflora</i>	XI HUA HAN XIU CAO
Smallflower Pawpaw	T0743 <i>Asimina parviflora</i>	XIAO HUA PAO PAO
Smallflower Saussurea*	T5763 <i>Saussurea parviflora</i>	XIAO HUA FENG MAO JU
Smallflower Xylopia*	T6854 <i>Xylopia parviflora</i>	XIAO HUA MU BAN SHU
Smallflower Yam	T2206 <i>Dioscorea parviflora</i>	XIAO HUA DUN YE SHU YU
Smallfruit Fig	T2721 <i>Ficus microcarpa</i>	RONG SHU
Smallfruit Loosestrife*	T4003 <i>Lysimachia microcarpa</i>	XIAO GUO XIANG CAO
Smallfruit Meadowrue	T6398 <i>Thalictrum microgynum</i>	XIAO GUO TANG SONG CAO
Smallfruit Rose	T5563 <i>Rosa cymosa</i>	XIAO GUO QIANG WEI GEN
Smallfruit Rue*	T5627 <i>Ruta microcarpa</i>	XIAO GUO YUN XIANG
Small-grand Concave-top Alga*	T3717 <i>Laurencia glandulifera</i>	XIAO XIAN AO DING ZAO
Smallheartleaved Morningglory	T3450 <i>Ipomoea obscura</i>	XIAO XIN YE SHU
Smallleaf Black Thorowax	T1075 <i>Bupleurum smithii</i> var. <i>parvifolium</i>	XIAO YE HEI CHAI HU
Smallleaf Fritsch Spiraea*	T6078 <i>Spiraea fritschiana</i> var. <i>parvifolia</i>	XIAO YE HUA BEI XIU XIAN JU
Smallleaf Jointfir	T3033 <i>Gnetum parvifolium</i> [Syn. <i>Gnetum indicum</i>]	XIAO YE MAI MA TENG
Smallleaf Knema	T3630 <i>Kleinhovia hospita</i>	MIAN TOU YE
Small-leaf Knema	T3631 <i>Knema globularia</i>	XIAO YE HONG GUANG SHU
Small-leaf Meadowrue	T6380 <i>Thalictrum elegans</i>	XIAO YE TANG SONG CAO
Small-leaf Photinia*	T4827 <i>Photinia parvifolia</i>	XIAO YE SHI NAN
Smallleaf Rabdosia*	T3517 <i>Isodon parvifolia</i>	XIAO YE XIANG CHA CAI
Small-leaf Raspberry	T5601 <i>Rubus taiwanicolus</i>	XIAO YE XUAN GOU ZI
Small-leaf Tansy*	T6293 <i>Tanacetum microphyllum</i>	XIAO YE JU HAO
Small-leafElaeocarpus*	T2330 <i>Elaeocarpus parvifolius</i>	XIAO YE DU YING
Smallleaf-hirsute Alder*	T0327 <i>Alnus hirsute</i> var. <i>microphylla</i>	XIAO YE YING MAO QI MU
Small-leaved Box	T1091 <i>Buxus microphylla</i>	XIAO YE HUANG YANG
Smallligulatecorolla Aster	T0778 <i>Aster albescens</i>	XIAO SHE ZI WAN
Small-tree Ardisia*	T0591 <i>Ardisia arborescens</i>	XIAO QIAO MU ZI JIN NIU
<i>Smilax bockii</i>	T5975 <i>Smilax bockii</i>	XI NAN BA QIA
Smirch Groundsel*	T5908 <i>Senecio scleratus</i>	LA QIAN LI GUANG
Smirnaw Leontice*	T3747 <i>Leontice smirnowii</i>	SI MI SHI MU DAN CAO
Smith Meadowrue	T6410 <i>Thalictrum smithii</i>	BIAN ZHU TANG SONG CAO
Smoke Longan*	T2184 <i>Dimocarpus fumatus</i>	YAN SE LONG YAN
Smooth Butterbur*	T4742 <i>Petasites laevigatus</i>	PING HUA FENG DOU CAI
Smooth Gambirplant	T6621 <i>Uncaria laevigata</i>	PING HUA FA LIANG GOU TENG
Smooth Mulberry*	T4295 <i>Morus laevigata</i>	PING HUA SANG
Smoothbranched Supplejack	T0922 <i>Berchemia polyphylla</i> var. <i>leioclada</i>	GUANG ZHI GOU ER CHA
Smoothfruit Ventilago	T6689 <i>Ventilago leiocarpa</i>	YI HE GUO
Smoothstalk Madder	T5583 <i>Rubia schumannina</i>	DA YE QIAN CAO
Snake Sansevieria	T5714 <i>Sansevieria trifasciata</i>	HU WEI LAN
Snakebubble Raspberry	T5591 <i>Rubus cochinchinensis</i>	SHE PAO JIN
Snakefruit Corydalis	T1730 <i>Corydalis ophiocarpa</i>	SHE GUO HUANG JIN
Snaw Gentian	T2922 <i>Gentiana nivalis</i>	XUE LONG DAN
Sneezeweed	T3134 <i>Helenium autumnale</i>	DUI XIN JU
Snow Azalea	T5518 <i>Rhododendron mucronatum</i>	BAI HUA YING SHAN HONG
Snow Lotus	T5755 <i>Saussurea involucrata</i>	XUE LIAN
Snowbellleaf Tickclover	T2134 <i>Desmodium styracifolium</i>	GUANG JIN QIAN CAO
Snowdrop	T2822 <i>Galanthus nivalis</i>	XUE HUA LIAN
Snowwhite Sunflower*	T3151 <i>Helianthus niveus</i>	XUE BAI XIANG RI KUI
Soapbark Tree	T5382 <i>Quillaja saponaria</i>	ZAO PI SHU
Soapwort	T5726 <i>Saponaria officinalis</i>	FEI ZAO CAO

Soda-apple Nightshade	T6014 <i>Solanum surattense</i>	YE DIAN QIE
Sodome Nightshade*	T6012 <i>Solanum sodomaeum</i> [Syn. <i>Solanum sodomaeum</i>]	SUO DUO MI QIE
Soft Argyreia*	T0613 <i>Argyrea mollis</i>	RUAN YIN BEI TENG
Soft Comfrey	T6247 <i>Symphytum orientale</i>	DONG FANG XI MEN FEI CAO
Soft Hawksbeard	T1788 <i>Crepis mollis</i>	ROU SE HUAN YANG SHEN
Soft Persimmon*	T2225 <i>Diospyros mollis</i>	RUAN SHI
Softcoral <i>Lemnalia bournei</i>	T3740 <i>Lemnalia bournei</i>	BO LUN LIN HUA RUAN SHAN HU
Softcoral <i>Nephthea chabroli</i>	T4417 <i>Nephthea chabroli</i>	
Soft-hair Cowparsnip	T3214 <i>Heracleum lanatum</i>	RUAN MAO DU HUO
Somniferous Withania	T6829 <i>Withania somnifera</i>	CUI MIAN SHUI QIE
Soncoca	T0510 <i>Annona purpurea</i>	ZI FAN LI ZHI
Songaria Cynomorium	T1972 <i>Cynomorium songaricum</i>	SUO YANG
Sorghum	T6056 <i>Sorghum vulgare</i>	GAO LIANG
Sorrel Rhubarb	T5474 <i>Rheum palmatum</i>	ZHANG YE DA HUANG
South Asia Michelia	T4212 <i>Michelia doltsopa</i>	NAN YA HAN XIAO
South China Evodia	T2638 <i>Evodia austrosinensis</i>	HUA NAN WU ZHU YU
South China Honeyloeast	T2976 <i>Gleditsia fera</i>	HUA NAN ZAO JIA
South Chrysanthemum	T1397 <i>Chrysanthemum segetum</i>	NAN TONG HAO
South Dodder Seed	T1911 <i>Cuscuta australis</i>	NAN FANG TU SI ZI
South Houndstongue*	T1968 <i>Cynoglossum australe</i>	NAN FANG LIU LI CAO
South-Africa Tufted Everlasting*	T3157 <i>Helichrysum caespitium</i>	NAN FEI CONG SHENG LA JU
South-African Eriosema*	T2436 <i>Eriosema kraussianum</i>	NAN FEI JI TOU SHU
Southern Catalpa	T1260 <i>Catalpa bignonioides</i>	MEI GUO ZI
Southern Magnolia	T4039 <i>Magnolia grandiflora</i>	HE HUA YU LAN
Southern Maidenhair	T0171 <i>Adiantum capillus-veneris</i>	ZHU ZONG CAO
Southern Marigold	T6281 <i>Tagetes minuta</i>	WEI XIAO WAN SHOU JU
Southern Red-cedar	T3598 <i>Juniperus silicicola</i>	NAN MEI ZHOU GUI
Southern-caledonian Tulipwood*	T3107 <i>Harpullia austro-caledonica</i>	NAN SU GE LAN JIA SHAN LUO
Southern-Spain Hawksbeard*	T1790 <i>Crepis tingitana</i>	NAN XI BAN YA HUAN YANG SHEN
South-India Andrographis*	T0460 <i>Andrographis viscosula</i>	NAN YIN DU CHUAN XIN LIAN
South-India Sago Seed*	T1925 <i>Cycas beddomei</i>	NAN YIN DU SU TIE SHU GUO
South-Japan Threewingnut*	T6539 <i>Tripterygium doianum</i>	NAN RI BEN LEI GONG TENG
South-western Honeysuckle	T3908 <i>Lonicera bournei</i>	XI NAN REN DONG
Sowthistle Tasselflower	T2357 <i>Emilia sonchifolia</i>	YI DIAN HONG
Sowthistle-leaf Ixeris	T3548 <i>Ixeris sonchifolia</i>	BAO JING KU MAI CAI
Soybean Oil	T2999 <i>Glycine max</i>	DOU YOU
Soybean Paste	T3003 <i>Glycine max</i>	JIANG
Spanish Chestnut	T1255 <i>Castanea sativa</i>	OU ZHOU LI
Spanish Haplophyllum*	T3102 <i>Haplophyllum hispanicum</i>	XI BAN YA YUN XIANG CAO
Spanish Heath	T2416 <i>Erica australis</i>	NAN FANG OU SHI NAN
Spanish Oak	T5378 <i>Quercus rubra</i>	HONG LI
Sparseflower Croton*	T1856 <i>Croton sparsiflorus</i>	SAN HUA BA DOU
Sparteine Crotalaria*	T1833 <i>Crotalaria spartioides</i>	YING ZHAO DOU ZHU SHI DOU
Spatulate Alstonia*	T0375 <i>Alstonia spatulata</i>	DAO ZHUANG JI GU CHANG SHAN
Spearmint	T4190 <i>Mentha spicata</i>	LIU LAN XIANG
Spectacular Alstonia*	T0376 <i>Alstonia spectabilis</i>	ZHUANG GUAN JI GU CHANG SHAN
		SHAN
Spectacular Senna*	T5916 <i>Senna spectabilis</i>	ZHUANG GUAN FAN XIE
Spicate Centaurium*	T1310 <i>Centaurium spicatum</i>	SUI ZHUANG BAI JIN HUA
Spicate Clerodendranthus	T1553 <i>Clerodendranthus spicatus</i>	MAO XU CAO
Spicate Pseudoelephantopus	T5253 <i>Pseudoelephantopus spicatus</i>	JIA DI DAN CAO
Spicate Woodbetony	T4683 <i>Pedicularis spicata</i>	SUI HUA MA XIAN HAO
Spicebush	T3848 <i>Lindera benzoin</i>	GUI PI DIAO ZHANG

Spiderweb Blueeargrass, Pearl Cyanotis*	T1921 <i>Cyanotis arachnoidea</i> [Syn. <i>Cyanotis bodinieri</i>]	ZHEN ZHU LU SHUI CAO
Spiked Gingerlily	T3120 <i>Hedychium spicatum</i>	TU LIANG JIANG
Spiked Loosestrife	T4007 <i>Lythrum salicaria</i>	QIAN QU CAI
Spiked Monkshood	T0133 <i>Aconitum spicatum</i>	SUI ZHUANG WU TOU
Spinach Jointfir	T3028 <i>Gnetum gnemon</i>	XIAN ZHOU MAI MA TENG
Spinach-like Jointfir	T3029 <i>Gnetum gnemonoides</i>	MA LAI XI YA MAI MA TENG
Spine Aralia	T0567 <i>Aralia armata</i>	HU CI CONG MU
Spine Date	T6918 <i>Ziziphus jujuba</i> var. <i>spinosa</i>	SUAN ZAO
Spine Date Seed	T6919 <i>Ziziphus jujuba</i> var. <i>spinosa</i>	SUAN ZAO REN
Spined Cordia*	T1679 <i>Cordia spinescens</i>	YOU CI PO BU MU
Spined Custardapple*	T0512 <i>Annona spinescens</i>	CI ZHUANG FAN LI ZHI
Spineless Agave	T0216 <i>Agave americana</i> var. <i>marginata</i> [Syn. <i>Agave americana</i> var. <i>variegata</i>]	WU CI FAN MA
Spineless Common Jujube	T6917 <i>Ziziphus jujuba</i> var. <i>inermis</i>	WU CI ZAO
Spineless Mitragyna*	T4256 <i>Mitragyna inermis</i>	WU CI MAO ZHU MU
Spineless Powderpuff*	T1115 <i>Calliandra inermis</i>	WU CI ZHU YING HUA
Spinish	T6076 <i>Spinacia oleracea</i>	BO CAI
Spiny Alsophila	T0364 <i>Alsophila spinulosa</i>	SUO LUO
Spiny Meconopsis	T4143 <i>Meconopsis horridula</i>	DUO CI LV RONG HAO
Spiny Sida*	T5944 <i>Sida spinosa</i>	DUO CI HUANG HUA REN
Spiny Thorowax*	T1076 <i>Bupleurum spinosum</i>	DUO CI CHAI HU
Spinyflower Alternanthera	T0380 <i>Alternanthera repens</i>	CI HUA LIAN ZI CAO
Spinyflower Strophanthus	T6156 <i>Strophanthus gratus</i>	XUAN HUA YANG JIAO AO
Spinyfruit Pricklyash	T6878 <i>Zanthoxylum echinocarpum</i>	CI KE HUA JIAO
Spinyleaf Pricklyash	T6874 <i>Zanthoxylum dimorphophyllum</i> var. <i>spinifolium</i>	CI YI YE HUA JIAO
Spiral Acacia*	T0031 <i>Acacia spirorbis</i>	LUO XUAN JIN HE HUAN
Splidleaf Poppy*	T4631 <i>Papaver nudicaule</i> var. <i>chinense</i>	LIE YE YE YING SU
Sponge Amphimedon paraviridis	T0430 <i>Amphimedon paraviridis</i>	
Sponge <i>Haliclona variclona</i>	T3093 <i>Haliclona variclona</i>	
Sponge <i>Iotrochota baculifera</i>	T3442 <i>Iotrochota baculifera</i>	XIAO BANG XIOU QIOU HAI MIAN
Sponge <i>Petrosia strongylata</i>	T4750 <i>Petrosia strongylata</i>	
Sponge <i>Psammaphysilla purpurea</i>	T5249 <i>Psammaphysilla purpurea</i>	ZI SHA ROU HAI MIAN
Sponge <i>Sphaeiospongia vesparia</i>	T6070 <i>Sphaeiospongia vesparia</i>	
Spoonleaf Nardostachys	T4387 <i>Nardostachys jatamansi</i>	SHI YE GAN SONG
Spotted Gum	T2514 <i>Eucalyptus maculata</i>	BAN WEN AN
Spottedleaf Euphorbia	T2622 <i>Euphorbia supina</i>	BAN YE DI JIN
Spread Gentian	T2917 <i>Gentiana leptoclada</i>	MAN ZHI LONG DAN
Spreading Creosote-bush	T3693 <i>Larrea divaricata</i>	JI CHA KAI LA RUI A
Spreading Dogbane	T0550 <i>Apocynum androsaemifolium</i>	DIAN DI MEI YE CHA YE HUA
Spreading Hedyotis	T4485 <i>Oldenlandia diffusa</i> [Syn. <i>Hedyotis diffusa</i>]	BAI HUA SHE SHE CAO
Spreading Meadowrue*	T6412 <i>Thalictrum squarrosus</i>	ZHAN ZHI TANG SONG CAO
Spreading Rabdosia*	T3485 <i>Isodon effusa</i>	KAI ZHAN XIANG CHA CAI
Spreading St. John'swort	T3360 <i>Hypericum patulum</i>	JIN SI MEI
Spreading Swertia*	T6229 <i>Swertia patens</i>	XIE JING ZHANG YA CAI
Sprenger Magnolia	T4052 <i>Magnolia sprengeri</i>	WU DANG MU LAN
Spring Knotweed	T5113 <i>Polygonum persicaria</i>	TAO YE LIAO
Spring Larkspur	T2088 <i>Delphinium tricorne</i>	SAN JU AI CUI QUE
Spring Snowflake	T3782 <i>Leucojum vernum</i>	XUE PIAN LIAN
Spruce Rosewood*	T2016 <i>Dalbergia spruceana</i>	QIAO HUANG TAN
Spurless Barrenwort*	T2393 <i>Epimedium ecalcaratum</i>	WU JU YIN YANG HUO
Spurless Columbine	T0557 <i>Aquilegia ecalcarata</i>	WU JU LOU DOU CAI
Squirrel's Foot Fern	T2053 <i>Davallia mariesii</i>	HAI ZHOU GU SUI BU
Squirting Cucumber	T2313 <i>Ecballium elaterium</i>	PEN GUA

Srilanka Glochidion	T2990 <i>Glochidion zeylanicum</i>	CHUI ZHU SUAN PAN ZI
Sri-Lankan Bridelia	T1028 <i>Bridelia retusa</i>	SI LI LAN KA TU MI SHU
S-shape Coralbean*	T2475 <i>Erythrina sigmoidea</i>	AI SI XING CI TONG
St. Brigid	T0466 <i>Anemone coronaria</i>	HUA GUAN YIN LIAN HUA
St. Johnswortleaf Skullcap	T5839 <i>Scutellaria hypericifolia</i>	CHUAN HUANG QIN
St. Marys	T5957 <i>Silybum marianum</i>	SHUI FEI JI
Stag's-horn Sumach	T5540 <i>Rhus typhina</i>	LU JIAO QI SHU
Stalkedfruit Meadowrue*	T6404 <i>Thalictrum podocarpum</i>	BING GUO TANG SONG CAO
Stalkedfruit Pricklyash	T6889 <i>Zanthoxylum podocarpum</i>	BING GUO HUA JIAO
Staminate Sage*	T5695 <i>Salvia staminea</i>	XIONG RUI ZHUANG SHU WEI CAO
Star Anise	T3409 <i>Illicium verum</i>	BA JIAO HUI XIANG
Staunton's Spikemoss	T5868 <i>Selaginella stauntoniana</i>	HAN SHENG JUAN BAI
Stavisacre	T2086 <i>Delphinium staphisagria</i>	SI TA WEI CUI QUE HUA
Stellate Cladonia	T1528 <i>Cladonia stellaris</i> [Syn. <i>Cladonia alpestris</i>]	TAI BAI HUA
Stellate hair Carpetweed	T2984 <i>Glinus lotoides</i> [Syn. <i>Mollugo lotoides</i>]	XING SU CAO
Stemless Carline Thistle	T1208 <i>Carlina acaulis</i>	CHAO XIAN JI
Stuedner Heliotrope*	T3181 <i>Heliotropium stuedneri</i>	SI SHI TIAN JIE CAI
Stevenson Rosewood*	T2017 <i>Dalbergia stevensonii</i>	SI TE WEN HUANG TAN
Sticky Clary	T5673 <i>Salvia glutinosa</i>	JIAO ZHI SHU WEI CAO
Sticky Rice	T4548 <i>Oryza sativa</i> var. <i>glutinosa</i>	NUO DAO
Stiffleaf Juniper Fruit	T3594 <i>Juniperus rigida</i>	DU SONG SHI
Stilted Pyrrosia	T5356 <i>Pyrrosia gralla</i>	XI NAN SHI WEI
Stinking Polecat, Wood Witch	T4778 <i>Phallus impudicus</i>	BAI GUI BI
Stipefruit Mistletoe	T6777 <i>Viscum multinerve</i>	BING GUO HU JI SHENG
Stipular Crotalaria*	T1835 <i>Crotalaria stipularia</i>	TUO YE ZHU SHI DOU
Stipulate Dolichandrone	T2245 <i>Dolichandrone stipulata</i>	XI NAN MAO WEI SHU
Stoat-osmyl Deadnettle*	T3682 <i>Lamium galeobdolon</i>	YOU CHOU YE ZHI MA
Stomach Motherwort	T3750 <i>Leonurus cardiaca</i>	WEI YI MU CAO
Stone Mallotus*	T4085 <i>Mallotus repandus</i> var. <i>chrysocarpus</i> [Syn. <i>Mallotus chrysocarpus</i> ; <i>Mallotus repandus</i>]	SHI YAN FENG
Straight-raceme Barberry	T0911 <i>Berberis orthobotrys</i>	ZHI ZONG ZHUANG HUA XU XIAO BO
Straw Mushroom	T6803 <i>Volvariella volvacea</i>	CAO GU
Strawberry Clover	T6518 <i>Trifolium fragiferum</i>	CAO MEI CHE ZHOU CAO
Straw-coloured Gentian	T2934 <i>Gentiana straminea</i>	MA HUA JIAO
Stria Agave*	T0227 <i>Agave striata</i>	TIAO WEN LONG SHE LAN
Striate Kummerowia	T3645 <i>Kummerowia striata</i>	JI YAN CAO
Strict Conyza	T1658 <i>Conyza stricta</i>	JIAN TENG BAI JIU CAO
Strict Meadowrue*	T6413 <i>Thalictrum strictum</i>	BI ZHI TANG SONG CAO
Strict Verbena*	T6710 <i>Verbena stricta</i>	JIAN TING MA BIAN CAO
Strictleaf Cryptocarya*	T1864 <i>Cryptocarya strictifolia</i>	ZHI LI YE HOU KE GUI
Strictleaf Dracaena Leaf	T1684 <i>Cordyline stricta</i>	JIAN YE TIE SHU YE
Strigose Microlepidia	T4220 <i>Microlepidia strigosa</i> [Syn. <i>Trichomanes strigosa</i>]	CU MAO LIN GAI JUE
Stringbushlike Rabdosia	T3535 <i>Isodon wikstroemioides</i>	YAO HUA XIANG CHA CAI
Stringy Stonecrop	T5857 <i>Sedum sarmentosum</i>	SHI ZHI JIA
Striped Crotalaria	T1826 <i>Crotalaria mucronata</i>	ZHU SHI DOU
Strongfragrant Loosestrife	T4002 <i>Lysimachia foenum-graecum</i>	LING XIANG CAO
Stuhlmann Millettia*	T4244 <i>Millettia stuhlmannii</i>	SI TU JI XUE TENG
Stygian Euphorbia*	T2621 <i>Euphorbia stygiana</i>	YOU AN DI JIN
Stylose Mangrove	T5489 <i>Rhizophora stylosa</i>	HONG HAI LAN
Suakwa Vegetablesponge	T3934 <i>Luffa cylindrica</i>	SI GUA
Suakwa Vegetablesponge Seed	T3935 <i>Luffa cylindrica</i>	SI GUA ZI
Suave Holarrhena*	T3267 <i>Holarrhena mitis</i>	WEN ROU ZHI XIE MU

Subcapitate Aralia	T0575 <i>Aralia subcapitata</i>	AN HUI CONG MU
Suberect Spatholobus	T6066 <i>Spatholobus suberectus</i>	MI HUA DOU
Suberose Coralbean*	T2477 <i>Erythrina suberosa</i>	SHUAN ZHUANG CI TONG
Suberous Greenstar	T5068 <i>Polyalthia suberosa</i>	AN LUO
Subglobose Asiabell	T1601 <i>Codonopsis subglobosa</i>	QIU HUA DANG SHEN
Sublessing Wormwood*	T0699 <i>Artemisia sublessingiana</i>	YA LIE XING HAO
Subsessile St.John'swort	T3365 <i>Hypericum subsessile</i>	JI WU BING JIN SI TAO
Subshrubby Peony Bark	T4585 <i>Paeonia moutan</i> [Syn. <i>Paeonia suffruticosa</i>]	MU DAN PI
Subterranean Clover	T6525 <i>Trifolium subterraneum</i>	DI XIA CHE ZHOU CAO
Subtomentose Milky*	T3655 <i>Lactarius subvellereus</i>	YA RONG GAI RU GU
Subtripplinerved Mahonia	T4064 <i>Mahonia gracilipes</i>	XI BING SHI DA GONG LAO
Suckling Clover	T6517 <i>Trifolium dubium</i>	DUN YE CHE ZHOU CAO
Sudach Citrus*	T1511 <i>Citrus sudachii</i>	SU DA QI GAN JU
Suffrutescent Securinega	T5848 <i>Securinega suffruticosa</i>	YI YE QIU
Sugar Bush	T5212 <i>Protea mellifera</i>	MI PU LUO TI YA MU
Sugar Maple	T0056 <i>Acer saccharum</i>	TANG QI
Sugarcane	T5641 <i>Saccharum officinarum</i>	YAO YONG GAN ZHE
Sulfur Tuft	T4366 <i>Naematoloma fasciculare</i>	CU SHENG HUANG REN SAN
Sulphur Maidenhair Fern*	T0178 <i>Adiantum sulphureum</i>	LIU HUANG TIE XIAN JUE
Sultanate-Oman Myrrhree*	T1639 <i>Commiphora wightii</i>	A MAN SU DAN MO YAO
Sumach	T5532 <i>Rhus coriaria</i>	XI XI LI QI SHU
Sumatra Snowbell	T6197 <i>Styrax benzoin</i>	AN XI XIANG
Sumatran Yew	T6316 <i>Taxus sumatrana</i>	SU MEN DA LA HONG DOU SHAN
Summer Snowflake	T3781 <i>Leucojum aestivum</i>	XIA XUE PIAN LIAN
Summer-hyacinth	T2842 <i>Galtonia candicans</i>	XIA FENG XIN ZI
Sumpweed	T3543 <i>Iva frutescens</i>	YI WA JU
Sun Euphorbia	T2589 <i>Euphorbia helioscopia</i>	ZE QI
Sunflower Flower	T3142 <i>Helianthus annuus</i>	XIANG RI KUI HUA
Sunflower Leaf	T3144 <i>Helianthus annuus</i>	XIANG RI KUI YE
Sunflower Seed	T3145 <i>Helianthus annuus</i>	XIANG RI KUI ZI
Sunflower Stem Pith	T3143 <i>Helianthus annuus</i>	XIANG RI KUI JING SUI
Sungpan Monkshood	T0135 <i>Aconitum sungpanense</i>	SONG PAN WU TOU
Sunn Crotalaria	T1823 <i>Crotalaria juncea</i>	SHU MA
Supine Heliotrope*	T3182 <i>Heliotropium supinum</i>	YANG XIN TIAN JIE CAI
Surinam Quassia	T5370 <i>Quassia amara</i>	MEI ZHOU KU MU
Surrounded Swertia	T6216 <i>Swertia cincta</i>	XI NAN ZHANG YA CAI
Swamp Cottonwood	T5152 <i>Populus heterophylla</i>	YI YE YANG
Swamp Loosestrife	T2057 <i>Decodon verticillatus</i>	DI KE DONG
Swamp Mahogany Leaf	T2517 <i>Eucalyptus robusta</i>	DA YE AN YE
Swampy Gentianopsis	T2941 <i>Gentianopsis paludosa</i>	SHI SHENG BIAN LEI
Swede Seed	T1010 <i>Brassica napus</i> var. <i>napobrassica</i>	WU JING GAN LAN
Swedish Turnip	T1022 <i>Brassica rutabaga</i>	RUI DIAN GAN LAN
Sweet Blackberry*	T5600 <i>Rubus suavissimus</i>	TIAN CHA
Sweet Broomwort	T5818 <i>Scoparia dulcis</i>	YE GAN CAO
Sweet Cicely	T4360 <i>Myrrhis odorata</i>	OU ZHOU MO YAO
Sweet Marjoram	T4524 <i>Origanum majorana</i>	TIAN NIU ZHI
Sweet Orange	T1508 <i>Citrus sinensis</i>	TIAN CHENG
Sweet Osmanthus	T4550 <i>Osmanthus fragrans</i>	GUI HUA
Sweet Pea	T3707 <i>Lathyrus odoratus</i>	XIANG WAN DOU
Sweet Pepper	T1186 <i>Capsicum annuum</i>	HONG HAI JIAO
Sweet Potato	T3447 <i>Ipomoea batatas</i> [Syn. <i>Convolvulus batatas</i>]	GAN SHU
Sweet Tooth	T3302 <i>Hydnum repandum</i>	MEI WEI CHI JUN
Sweet Uvaria*	T6661 <i>Uvaria dulcis</i>	TIAN ZI YU PAN

Sweet Viburnum*	T6738 <i>Viburnum odoratissimum</i>	XIANG QI JIA MI
Sweet Woodruff	T0757 <i>Asperula odorata</i>	XIANG CHE YE CAO
Sweet Wormwood	T0660 <i>Artemisia annua</i>	HUANG HUA HAO
Sweet-briar	T5571 <i>Rosa rubiginosa</i>	XIU HONG QIANG WEI
Sweetcane Culm	T5642 <i>Saccharum sinensis</i>	GAN ZHE
Sweetroot Polypody*	T5123 <i>Polypodium glycyrrhiza</i>	TIAN GEN DUO ZU JUE
Sweetscented Basil	T4473 <i>Ocimum gratissimum</i>	DING XIANG LUO LE
Sweetscented Oleander	T4418 <i>Nerium indicum</i>	JIA ZHU TAO
Sweet-tongue Lippia*	T3864 <i>Lippia dulcis</i>	TIAN SHE CAO
Sword Jackbean	T1169 <i>Canavalia gladiata</i>	DAO DOU
Sword-bean	T1168 <i>Canavalia ensiformis</i>	YANG DAO DOU
Swordleaf Dianella	T2139 <i>Dianella ensifolia</i>	SHAN MAO ER
Swordleaf Dracaena	T2253 <i>Dracaena cochinchinensis</i>	JIAN YE LONG XUE SHU
Swordlike Atractylodes	T0823 <i>Atractylodes lancea</i>	CANG ZHU
Sylvatic Sapium*	T6146 <i>Stillingia sylvatica</i> [Syn. <i>Sapium sylvatica</i>]	CAO WU JIU
Syneilesis*	T6256 <i>Syneilesis palmata</i>	TU ER SAN
Syria Origanum*	T4525 <i>Origanum syriacum</i>	XU LI YA NIU ZHI
Syrian Rue*	T5625 <i>Ruta chalepensis</i>	SUI ZHUANG YUN XIANG
Szechuan Epimedium	T2404 <i>Epimedium sutchuenense</i>	SI CHUAN YIN YANG HUO
Szechuan Adonis	T0190 <i>Adonis sutchuenensis</i>	SHU CE JIN ZHAN HUA
Szechuan Chinaberry Bark	T4162 <i>Melia toosendan</i>	CHUAN LIAN PI
Szechuan Chinaberry Fruit	T4163 <i>Melia toosendan</i>	CHUAN LIAN ZI
Szechuan Cyclea	T1933 <i>Cyclea sutchuenensis</i>	SI CHUAN LUN HUAN TENG
Szechuan Sabia	T5637 <i>Sabia schumanniana</i>	SI CHUAN QING FENG TENG
Szechuan Tangshen	T1602 <i>Codonopsis tangshen</i>	CHUAN DANG SHEN
Szechuan-Tibet Rabdosia	T3518 <i>Isodon pharicus</i>	CHUAN ZANG XIANG CHA CAI
Taibaien Aralia	T0576 <i>Aralia taibaiensis</i>	TAI BAI CONG MU
Tail-leaf Monachosorum	T4267 <i>Monachosorum flagellare</i>	WEI YE XI ZI JUE
Taillikeleaf Rabdosia	T5392 <i>Rabdosia excisa</i>	WEI YE XIANG CHA CAI
Taishan Sumac Fruit	T5539 <i>Rhus taishanensis</i>	TAI SHAN YAN FU ZI
Taiton Wildginger	T0734 <i>Asarum taitoense</i>	TAI DONG XI XIN
Taiuia Root*	T1274 <i>Cayaponia tayuya</i>	TA YOU XIE GUA
Taiwan Agrimony	T2558 <i>Eupatorium formosanum</i>	TAI WAN ZE LAN
Taiwan Angelica	T0498 <i>Angelica taiwaniana</i>	HANG BAI ZHI
Taiwan Barberrry	T0907 <i>Berberis kawakamii</i>	TAI WAN XIAO BO
Taiwan Beautyberry	T1118 <i>Callicarpa formosana</i>	DU HONG HUA
Taiwan Bletilla*	T0954 <i>Bletilla formosana</i>	LAN YU BAI JI
Taiwan Buckthorn*	T5459 <i>Rhamnus formosana</i>	TAI WAN SHU LI
Taiwan Bugle*	T0272 <i>Ajuga taiwanensis</i>	TAI WAN JIN GU CAO
Taiwan Butterbur*	T4739 <i>Petasites formosanus</i>	TAI WAN FENG DOU CAI
Taiwan Common Jasminorange	T4316 <i>Murraya crenulata</i>	TAI WAN JIU LI XIANG
Taiwan Corktree*	T4790 <i>Phellodendron amurense</i> var. <i>wilsonii</i>	TAI WAN HUANG BO
Taiwan Dandelion*	T6300 <i>Taraxacum formosanum</i>	TAI WAN PU GONG YING
Taiwan Davallia	T2052 <i>Davallia divaricata</i> [Syn. <i>Davallia formosana</i> ; <i>Davallia orientalis</i>]	DA YE GU SUI BU
Taiwan Dualbutterfly	T6538 <i>Tripterospermum taiwanense</i>	TAI WAN SHUANG HU DIE
Taiwan Euchresta	T2526 <i>Euchresta formosana</i>	TAI WAN SHAN DOU GEN
Taiwan Goniothalamus	T3041 <i>Goniothalamus amuyon</i>	TAI WAN GE NA XIANG
Taiwan Hibiscus	T3247 <i>Hibiscus taiwanensis</i>	TAI WAN FU RONG
Taiwan Hogfennel	T4755 <i>Peucedanum formosanum</i>	TAI WAN QIAN HU
Taiwan Incense Cedar	T1121 <i>Calocedrus macrolepis</i> var. <i>formosana</i>	TAI WAN CUI BAI
Taiwan Juniper	T3588 <i>Juniperus formosana</i>	CI BAI
Taiwan Juniper	T3600 <i>Juniperus taiwaniana</i>	SHAN CI BAI

Taiwan Loquat	T2430 <i>Eriobotrya deflexa</i>	TAI WAN PI PA
Taiwan Magnoliavine	T5790 <i>Schisandra arisanensis</i>	A LI SHAN WU WEI ZI
Taiwan Malabar Randia	T5410 <i>Randia formosa</i>	BA NA MA SHAN SHI LIU
Taiwan Meadowrue	T6415 <i>Thalictrum urbainii</i>	TAI WAN TANG SONG CAO
Taiwan Mosla	T4539 <i>Orthodon formosanus</i>	TAI WAN JI NING
Taiwan Pepper*	T4970 <i>Piper taiwanense</i>	TAI WAN HU JIAO
Taiwan Pieris*	T4889 <i>Pieris formosa</i>	MEI LI MA ZUI MU
Taiwan Sassafras	T5745 <i>Sassafras randainense</i>	TAI WAN CHA MU
Taiwan Snowbell	T6199 <i>Styrax formosanus</i>	TAI WAN AN XI XIANG
Taiwan Spiraea*	T6077 <i>Spiraea formosana</i>	TAI WAN XIU XIAN JU
Taiwan Spruce	T4874 <i>Picea morrisonicola</i>	TAI WAN YUN SHAN
Taiwan Thistle*	T1447 <i>Cirisum japonica</i> var. <i>takaoense</i>	TAI WAN JI
Taiwan Tournefortia*	T6480 <i>Tournefortia sarmentosa</i>	ZI DAN TENG
Taizhong Buckthorn*	T5462 <i>Rhamnus nakaharai</i>	TAI ZHONG SHU LI
Tala Monkshood*	T0136 <i>Aconitum talassicum</i>	TA LA WU TOU
Tali Corydalis	T1746 <i>Corydalis taliensis</i>	WU WEI CAO
Tall Camomile	T0520 <i>Anthemis altissima</i>	GAO CHUN HUANG JU
Tall Ephedra	T2376 <i>Ephedra procera</i>	SHU ZHUANG MA HUANG
Tall Eupatorium	T2550 <i>Eupatorium altissimum</i>	GAO ZE LAN
Tall Gastrodia	T2890 <i>Gastrodia elata</i>	TIAN MA
Tall Hibiscus	T3239 <i>Hibiscus elatus</i>	GAO HONG JIN
Tall Hymenodictyon	T3323 <i>Hymenodictyon excelsum</i>	TU LIAN QIAO
Tall Meadowrue	T6405 <i>Thalictrum polygamum</i>	ZA XING TANG SONG CAO
Tall Monkshood	T0130 <i>Aconitum sinomontanum</i>	GAO WU TOU
Tall Skullcap	T5831 <i>Scutellaria altissima</i>	GAO HUANG QIN
Tamarind Fruit	T6285 <i>Tamarindus indica</i>	SUAN JIAO
Tamarisk-leaf Juniper*	T3596 <i>Juniperus sabina</i> var. <i>tamariscifolia</i>	CHENG LIU YE YUAN BAI
Tamariskoid Spikemoss	T5869 <i>Selaginella tamariscina</i>	JUAN BAI
Tangerine Pericarp	T1506 <i>Citrus reticulata</i>	JU PI
Tangerine Seed	T1504 <i>Citrus reticulata</i>	JU HE
Tangle Thallus	T2321 <i>Ecklonia kurome</i>	HEI KUN BU
Tangut Anisodus	T0502 <i>Anisodus tanguticus</i> [Syn. <i>Scopolia tangutica</i>]	ZANG QIE
Tangut Clematis	T1546 <i>Clematis tangutica</i>	GAN QING TIE XIAN LIAN
Tangut Daphne	T2031 <i>Daphne tangutica</i>	SHAN GAN RUI XIANG
Tangut Monkshood	T0137 <i>Aconitum tanguticum</i>	GAN QING WU TOU
Tangut Przewalskia	T5247 <i>Przewalskia tangutica</i>	MA NIAO PAO
Tangut Rhubarb	T5481 <i>Rheum tanguticum</i>	TANG GU TE DA HUANG
Tankan Citrus	T1516 <i>Citrus tankan</i>	JIAO GAN
Tankan Citrus Pericarp	T1517 <i>Citrus tankan</i>	JIAO GAN PI
Tankasché (in Mexico)	T6102 <i>Stauranthus perforatus</i>	
Tansy	T1400 <i>Chrysanthemum vulgare</i>	AI JU
Taproot Angelica*	T0493 <i>Angelica radix</i>	ZHI GEN DANG GUI
Tarbush	T2740 <i>Flourensia cernua</i>	FU CHUI FE LAO JU
Taro	T1624 <i>Colocasia antiquorum</i>	YE YU
Tarragon	T0676 <i>Artemisia dracunculus</i>	XIA YE QING HAO
Tartarian Buckwheat	T2661 <i>Fagopyrum tataricum</i>	KU QIAO MAI
Tatarion Aster	T0781 <i>Aster tataricus</i>	ZI WAN
Taurine Wormwood*	T0701 <i>Artemisia taurica</i>	NIU HAO
Tea Flower	T1150 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]	CHA HUA
Tea Root	T1151 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]	CHA SHU GEN
Tea Seed	T1154 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]	CHA ZI
Teat-shaped Ardisia	T0600 <i>Ardisia mamillata</i> [Syn. <i>Timus mamillata</i>]	HU SHE HONG
Tenacious Condorvine	T4120 <i>Marsdenia tenacissima</i>	TONG GUANG TENG

Tendrileaf Fritillary	T2783 <i>Fritillaria cirrhosa</i>	CHUAN BEI MU
Ten-stamen Ceriops*	T1335 <i>Ceriops decandra</i>	SHI XIONG RUI JIAO GUO MU
Tenuous Corydalis*	T1732 <i>Corydalis pallida</i> var. <i>tenuis</i>	XI SHEN SHAN ZI JIN
Terebinthaceous Hogfennel	T4773 <i>Peucedanum terebinthaceum</i>	SHI FANG FENG
<i>Terminalia chebula</i> var. <i>tomentella</i>	T6348 <i>Terminalia chebula</i> var. <i>tomentella</i>	WEI MAO HE ZI
Ternate Pinellia	T4904 <i>Pinellia ternata</i>	BAN XIA
Ternateleaf Rabdosia	T3528 <i>Isodon ternifolia</i>	NIU WEI CAO XIANG CHA CAI
Ternateleaf Rabdosia	T3529 <i>Isodon ternifolius</i>	CHONG YA YAO
Terrestrial Thelephore*	T6421 <i>Thelephora terrestris</i>	LU SHENG GE JUN
Tetrabase Casimiroa*	T1227 <i>Casimiroa tetramera</i>	SI JI XIANG ROU GUO
Tetracentron	T6352 <i>Tetracentron sinense</i>	SHUI QING SHU
Tetragonal Crotalaria	T1836 <i>Crotalaria tetragona</i>	HUA JIN DAN
Tetraphyllous Paris	T4655 <i>Paris tetraphylla</i>	WANG SUN
Teysmanni Beautyleaf Variaty*	T1134 <i>Calophyllum teysmannii</i> var. <i>inophylloide</i>	TE SI MAN NI HU TONG BIAN ZHONG
Teysmanni Beautyleaf*	T1133 <i>Calophyllum teysmannii</i>	TE SI MAN NI HU TONG
Thailand Clinacanthus*; Lin-Nguu-Hao (Thai name)	T1572 <i>Clinacanthus siamensis</i>	TAI GUO NIU XU HUA
Thailand Clockvine (Raang-Chuet)	T6445 <i>Thunbergia laurifolia</i>	TAI GUO SHAN QIAN NIU
Thailand Gardenia*	T2887 <i>Gardenia thailandica</i>	TAI GUO ZHI ZI
Thailand Indianmulberry*	T4281 <i>Morinda coreia</i>	TAI GUO BA JI
Thaps Foxglove*	T2180 <i>Digitalis thapsii</i>	SA SHI MAO DI HUANG
Thatch Screwpine Flower	T4616 <i>Pandanus tectorius</i>	LU DOU LE HUA
Thellung Pimpinella	T4902 <i>Pimpinella thelungiana</i>	YANG HONG SHAN
Thickbark Pricklyash*	T6879 <i>Zanthoxylum elephantiasis</i>	HOU PI HUA JIAO
Thickfruit Angelica*	T0490 <i>Angelica pachycarpa</i>	HOU GUO DANG GUI
Thickfruit Millettia	T4240 <i>Millettia pachycarpa</i>	KU TAN ZI
Thickfruit Sophora	T6040 <i>Sophora pachycarpa</i>	GAN SU HUAI SHU
Thickleaf Bergenia	T0923 <i>Bergenia crassifolia</i>	HOU YE YAN BAI CAI
Thickleaf Gambirplant*	T6610 <i>Uncaria callophylla</i>	HOU YE GOU TENG
Thickstem Gentian	T2909 <i>Gentiana crassicaulis</i>	CU JING QIN JIAO
Thickstem Monkshood	T0089 <i>Aconitum crassicaule</i>	CU JING WU TOU
Thin Evodia	T2641 <i>Evodia leptta</i> [Syn. <i>Ilex leptta</i>]	SAN CHA KU
Thin Sageretia	T5644 <i>Sageretia gracilis</i>	XI QUE MEI TENG
Thin Sphallerocarpus	T6073 <i>Sphallerocarpus gracilis</i>	MO GUO QIN
Thinfruit Hypecoum	T3334 <i>Hypecoum leptocarpum</i>	XI GUO JIAO HUI XIANG
Thinleaf Adina	T0181 <i>Adina rubella</i>	XI YE SHUI TUAN HUA
Thinleaf Buckthorn Root	T5461 <i>Rhamnus leptophylla</i>	JIANG LI MU GEN
Thinleaf Celery	T0546 <i>Apium leptophyllum</i>	XIAN YE QIN
Thin-leaf Melodinus	T4179 <i>Melodinus tenuicaudatus</i>	BO YE SHAN CHENG
Thinleaf Milkwort	T5088 <i>Polygala tenuifolia</i>	YUAN ZHI
Thinnest Yam	T2198 <i>Dioscorea gracillima</i>	XIAN XI SHU YU
Thin-rhizome Epimedium	T2399 <i>Epimedium leptorrhizum</i>	QIAN LING YIN YANG HUO
Thinstiped Yam	T2211 <i>Dioscorea tenuipes</i>	XI BING SHU YU
Thitmin	T5048 <i>Podocarpus nerifolius</i>	BAI RI QING
Thollon Strophanthus*	T6162 <i>Strophanthus thollonii</i>	SE LUN YANG JIAO AO
Thomson Cowparsnip*	T3226 <i>Heracleum thomsonii</i>	TANG MU XUN DU HUO
Thomson Kudzuvine	T5314 <i>Pueraria lobata</i> var. <i>thomsonii</i>	FEN GE
Thomson Kudzuvine Root	T5320 <i>Pueraria thomsonii</i>	GAN GE TENG GEN
Thorny Yam*	T2196 <i>Dioscorea dumetorum</i>	JING JI SHU YU
Thorowax	T1069 <i>Bupleurum rigidum</i>	JIAN YING CHAI HU
Thorowax-like Groundsel*	T5882 <i>Senecio bupleuroides</i>	CHAI HU ZHUANG QIAN LI GUANG
Thorowort Pondweed	T5178 <i>Potamogeton perfoliatus</i>	SUAN SHUI CAO

Three-coloured Amaranth	T0389 <i>Amaranthus tricolor</i>	YAN LAI HONG
Threeflower Clematis	T1547 <i>Clematis terniflora</i> [Syn. <i>Clematis maximowicziana</i>]	BAI HUA TENG
Threeflower Gentian	T2938 <i>Gentiana triflora</i>	SAN HUA LONG DAN
Threefoliolate Larkspur	T2089 <i>Delphinium trifoliolatum</i>	SAN XIAO YE CUI QUE HUA
Threeleaf Akebia	T0277 <i>Akebia trifoliata</i>	SAN YE MU TONG
Threeleaf Akebia Root	T0278 <i>Akebia trifoliata</i>	SAN YE MU TONG GEN
Threeleaf Chastetree Fruit	T6793 <i>Vitex trifolia</i>	MAN JING ZI
Threeleaf Chastetree Leaf	T6792 <i>Vitex trifolia</i>	MAN JING YE
Three-leaf Goldthread	T1671 <i>Coptis trifolia</i>	SAN YE HUANG LIAN
Threeleaf Melicope	T4169 <i>Melicope triphylla</i>	SAN YE MI ZHU YU
Threeleaf Sage	T5697 <i>Salvia trijuga</i>	SAN YE SHU WEI CAO
Threeleaf Spicebush*	T3855 <i>Lindera triloba</i>	SAN YE DIAO ZHANG
Threeleaf Turpinia	T6568 <i>Turpinia ternata</i>	SAN CHU SHAN XIANG YUAN
Three-room Roundpod Jute*	T1676 <i>Corchorus trilocularis</i>	SAN SHI HUANG MA
Threestamen Dehaasia*	T2059 <i>Dehaasia triandra</i>	SAN RUI LIAN GUI
Thunberg Fritillary	T2798 <i>Fritillaria verticillata</i> var. <i>thunbergii</i> [Syn. <i>Fritillaria thunbergii</i>]	ZHE BEI MU
Thunberg Gentian*	T2935 <i>Gentiana thunbergii</i>	ZAN SHI LONG DAN
Thunberg Hydrangea*	T3305 <i>Hydrangea macrophylla</i> var. <i>thunbergii</i>	SE BO GE XIU QIU
Thunberg Knotweed	T5119 <i>Polygonum thunbergii</i>	SHUI MA TIAO
Thunberg Spiraea	T6086 <i>Spiraea thunbergii</i>	ZHEN ZHU XIU XIAN JU
Thunberg's Daylily	T3198 <i>Hemerocallis thunbergii</i>	SHE XIANG XUAN
Thunberg's Lepisorus	T3764 <i>Lepisorus thunbergianus</i>	WA WEI
Thyme	T6454 <i>Thymus vulgaris</i>	SHE XIANG CAO
Thyme Speedwell*	T6730 <i>Veronica thymoides</i> ssp. <i>pseudocinerea</i>	JIA HUI SE JIU LI XIANG PO PO NA
Thymeleaf Coriaria*	T1695 <i>Coriaria thymifolia</i>	BAI LI XIANG YE MA SANG
Thymeleaf Speedwell	T6728 <i>Veronica serpyllifolia</i>	XIAO PO PO NA
Thyrseflower Dendrobium	T2110 <i>Dendrobium thyrseflorum</i>	JU HUA SHI HU
Tianpingshan Epimedium*	T2400 <i>Epimedium myrianthum</i>	TIAN PING SHAN YIN YANG HUO
Tianshan Mountain Gentian	T2936 <i>Gentiana tianschanica</i>	TIAN SHAN QIN JIAO
Tianshan Mountain Mountainash	T6055 <i>Sorbus tianschanica</i>	TIAN SHAN HUA QIU
Tianshan Mountain Rhubarb	T5482 <i>Rheum wittrockii</i>	TIAN SHAN DA HUANG
Tibet Berneuxine	T0926 <i>Berneuxia thibetica</i>	YAN JIN CAI
Tibet Cinnamon Bark	T1444 <i>Cinnamomum tamala</i>	SAN TIAO JIN
Tibet Clematis*	T1548 <i>Clematis tibetana</i>	XI ZANG TIE XIAN LIAN
Tibet Gentian	T2937 <i>Gentiana tibetica</i>	XI ZANG QIN JIAO
Tibet Ginseng	T4606 <i>Panax pseudo-ginseng</i>	ZANG SAN QI
Tibet Intermediate Ephedra	T2370 <i>Ephedra intermedia</i> var. <i>tibetica</i>	XI ZANG ZHONG MA HUANG
Tibet Lyonia	T3991 <i>Lyonia ovalifolia</i>	LI MU
Tibet Paris	T4650 <i>Paris polyphylla</i> var. <i>pseudothibetica</i>	CHANG YAO GE CHONG LOU
Tibet Peasshrub	T1193 <i>Caragana tibetica</i>	MAO CI JIN JI ER
Tibet Pyrola*	T5346 <i>Pyrola calliantha</i> var. <i>tibetana</i>	XI ZANG LU TI CAO
Tibet Seabuckthorn	T3259 <i>Hippophae thibetica</i>	XI ZANG SHA JI
Tibetan Hellebore	T3187 <i>Helleborus thibeticus</i>	TIE KUAI ZI
Tibetan Meadowrue	T6386 <i>Thalictrum foetidum</i>	XIANG TANG SONG CAO
Tiger Lily	T3839 <i>Lilium tigrinum</i> [Syn. <i>Lilium lancifolium</i>]	JUAN DAN
Tillering Onion	T0312 <i>Allium cepa</i> var. <i>agrogatum</i>	FEN NIE CONG TOU
Timothy	T4802 <i>Phleum pratense</i>	TI MU CAO
Tinctorial Caesalpinia*	T1109 <i>Caesalpinia tinctoria</i>	SE ZE YUN SHI
Tinctorial Mulberry*	T4302 <i>Morus tinctoria</i>	RAN SE SANG
Tinctorial Osage Orange*	T4023 <i>Maclura tinctoria</i>	ZHUO SE SANG CHENG
Tinctorial Parmelia*	T4658 <i>Parmelia tinctorum</i>	MEI YI
Tingit Iris	T3472 <i>Iris tingitana</i>	DAN JI ER YUAN WEI

Tinyleaf Eupatorium*	T2578 <i>Eupatorium tinifolium</i>	SI MIAN MAO JIA MI YE ZE LAN
Tiny Ardisia	T0601 <i>Ardisia pusilla</i>	CHUAN CHAN JIU JIE LONG
Tithymalus-like Pedilanthus	T4686 <i>Pedilanthus tithymaloides</i>	YU DAI GEN
Toad	T1049 <i>Bufo bufo gargarizans; Bufo melanostictus</i>	CHAN CHU
Toad Gall	T1050 <i>Bufo bufo gargarizans; Bufo melanostictus</i>	CHAN CHU DAN
Toad Skin	T1051 <i>Bufo bufo gargarizans; Bufo melanostictus</i>	CHAN PI
Toad Skin Secretion Cake	T1052 <i>Bufo bufo gargarizans; Bufo melanostictus</i>	CHAN SU
Tokyo Cherry	T5246 <i>Prunus yedoensis</i>	RI BEN YING HUA
Tokyo Violet	T6767 <i>Viola yedoensis</i>	ZI HUA DI DING
Tomato	T3962 <i>Lycopersicon esculentum</i>	FAN QIE
Tomentase Pummelo	T1483 <i>Citrus grandis</i> var. <i>tomentosa</i>	HUA ZHOU YOU
Tomentose Aglaia*	T0246 <i>Aglaia tomentosa</i>	RONG MAO MI ZI LAN
Tomentose Bushmint*	T3382 <i>Hyptis tomentosa</i>	RONG MAO SHAN XIANG
Tomentose Calaba	T1135 <i>Calophyllum tomentosum</i>	RONG MAO HU TONG
Tomentose Caudate Croton	T1841 <i>Croton caudatus</i> var. <i>tomentosus</i>	MAO YE BA DOU
Tomentose Germander	T6370 <i>Teucrium tomentosum</i>	RONG MAO XIANG KE KE
Tomentose Glorybower	T1567 <i>Clerodendrum mandarinorum</i>	HAI TONG
Tomentose Sage*	T5696 <i>Salvia tomentosa</i>	RONG MAO DAN SHEN
Tomentose Sophora	T6045 <i>Sophora tomentosa</i>	LING NAN HUAI SHU
Tomentose Wrightia	T6834 <i>Wrightia tomentosa</i>	YAN MU
Tongol Goldenray	T3816 <i>Ligularia tongolensis</i>	DONG E LUO DU WU
Tongue-on-tree	T2844 <i>Ganoderma applanatum</i>	SHU SHE
Tonkin Bursera*	T1082 <i>Bursera tonkinensis</i>	YUE NAN LIE LAN
Tonkin Cyclea	T1934 <i>Cyclea tonkinensis</i>	NAN LUN HUAN TENG
Tonkin Snowbell	T6204 <i>Styrax tonkinensis</i>	YUE NAN AN XI XIANG
Tonkin Sophora Root	T6043 <i>Sophora subprostrata</i> [Syn. <i>Sophora tonkinensis</i>]	SHAN DOU GEN
Toolur	T2511 <i>Eucalyptus grandis</i>	JU AN
Tooth Ammi	T0412 <i>Ammi visnaga</i>	CHI A MI
Toothedfruit Dock	T5608 <i>Rumex dentatus</i>	NIU SHE CAO
Toothedpetal Corydalis	T1734 <i>Corydalis remota</i> [Syn. <i>Corydalis bulbosa</i> var. <i>typica</i>]	CHI BAN YAN HU SUO
Toothleaf Goldenray	T3802 <i>Ligularia dentata</i>	CHI YE TUO WU
Toothwing Senna*	T1231 <i>Cassia dentata</i>	CHI CHI JUE MING
Top Primrose	T5202 <i>Primula obconica</i>	E BAO CHUN
Topeng Pygeum	T5340 <i>Pygeum topengii</i>	TUN XING GUO
Torreyia*	T6477 <i>Torreya grandis</i>	FEI SHU
Tortedfruit Screwtree	T3164 <i>Helicteres isora</i>	HUO SUO MA
Tortile Acacia*	T0033 <i>Acacia tortilis</i> ssp. <i>raddiana</i>	NIU XUAN JIN HE HUAN
Tortuous Fig*	T4202 <i>Mesembryanthemum tortuosum</i>	NIU QU SONG YE JU
Tortuous Hellebore*	T3188 <i>Helleborus torquatus</i> [Syn. <i>Helleborus serbicus</i>]	NIU QU TI GEN CAO
Tortuous Seseli*	T5936 <i>Seseli tortuosum</i>	XUAN NIU XIE HAO
Tosa Goldsaxifrage*	T1408 <i>Chrysosplenium tosaense</i>	SHANG ZUO ZHOU JIN YAO
Tosa Swertia*	T6240 <i>Swertia tosaensis</i>	SHANG ZUO ZHOU ZHANG YA CAI
Toxic Poisonnut*	T6188 <i>Strychnos toxifera</i>	DU MA QIAN
Toxic Tephrosia*	T6341 <i>Tephrosia toxicaria</i>	DU HUI MAO DOU
Treacle Erysimum	T2452 <i>Erysimum cheiranthoides</i>	GUI ZHU TANG JIE
Treasure Maesa	T4031 <i>Maesa perlarium</i>	JI YU DAN
Tree Beautyberry	T1116 <i>Callicarpa arborea</i>	QIAO MU ZI ZHU
Tree Clubmoss	T3976 <i>Lycopodium obscurum</i>	YU BAI SHI SONG
Tree Falsespiraea	T6051 <i>Sorbaria arborea</i>	GAO CONG ZHEN ZHU MEI
Tree Heath	T2415 <i>Erica arborea</i>	OU SHI NAN
Tree of Heaven Ailanthus Bast	T0255 <i>Ailanthus altissima</i>	CHU BAI PI
Tree Phyllirea	T4797 <i>Phillyrea latifolia</i>	KUO YE OU NV ZFEN
Tree Wisteria	T0972 <i>Bolusanthus speciosus</i>	

Treelike Rhododendron	T5503 <i>Rhododendron arboreum</i>	SHU XING DU JUAN
Triangular Dutchmanspipe*	T0640 <i>Aristolochia triangularis</i>	SAN JIAO MA DOU LING
Triangular-leaf St.John'swort*	T3366 <i>Hypericum triquetrifolium</i>	SAN LENG YE JIN SI TAO
Trichroism Morningglory*	T3452 <i>Ipomoea tricolor</i>	SAN SE QIAN NIU
Tricolor Leucopaxillus*	T3783 <i>Leucopaxillus tricolor</i>	SAN SE BAI ZHUANG GU
Tricuspid Cudrania	T1888 <i>Cudrania tricuspidata</i>	ZHE SHU
Tricuspidate Falsenettle	T0962 <i>Boehmeria platanifolia</i> [Syn. <i>Boehmeria tricuspis</i>]	CHI MA
Trifoliolate Acanthopanax	T0045 <i>Acanthopanax trifoliatum</i>	CI SAN JIA
Trifoliolate Euclea	T2527 <i>Euclea japonica</i>	SAN XIAO YE SHAN DOU GEN
Trifoliolate Jewelvine	T2124 <i>Derris trifoliata</i>	YU TENG
Trifoliolate-orange	T5137 <i>Poncirus trifoliata</i>	GOU JU
Trifoliolate-orange Leaf	T5139 <i>Poncirus trifoliata</i>	GOU JU YE
Trifoliolate-orange Root-bark	T5142 <i>Poncirus trifoliata</i>	ZHI GEN PI
Trifoliolate-orange Seed	T5138 <i>Poncirus trifoliata</i>	GOU JU HE
Trifoliolate-orange Unripe Fruit	T5140 <i>Poncirus trifoliata</i>	GOU JU ZHI KE
Trifoliolate-orange Young Fruit	T5141 <i>Poncirus trifoliata</i>	GOU JU ZHI SHI
Trifoliolate Verbena*	T6711 <i>Verbena triphylla</i> [Syn. <i>Lippia citriodora</i>]	SAN YE MA BIAN CAO
Tri-hard-tip Snakegourd*	T6514 <i>Trichosanthes tricuspidata</i>	SAN YING JIAN GUA LOU
Trileaf Wood*	T6536 <i>Triphyophyllum peltatum</i>	SAN YE MU
Trilobate Macaranga*	T4014 <i>Macaranga triloba</i>	SAN LIE XUE TONG
Trilobedleaf Kudzuvine	T5318 <i>Pueraria phaseoloides</i>	SAN LIE YE GE
Trinervure Poisonnut*	T6189 <i>Strychnos trinervis</i>	SAN YE MAI MA QIAN
Trinidad Pepper*	T4929 <i>Piper aequale</i>	TE LI NI DA HU JIAO
Tripartite Nightshade*	T6016 <i>Solanum tripartitum</i>	SAN LIE QIE
Tripartite Wormwood*	T0704 <i>Artemisia tripartita</i>	SAN LIE HAO
Triplet Lily	T1029 <i>Brodiaea californica</i>	
Triplinervia Poisonnut*	T6190 <i>Strychnos triplinervia</i>	LI JI SAN CHU MAI MA QIAN
Triquetrous Tadehagi	T6277 <i>Tadehagi triquetrum</i>	HU LU CHA
Trisphare Ungernia*	T6642 <i>Ungernia trisphaera</i>	SAN QIU BO SI SHI SUAN
Trogopteris Dung	T6551 <i>Trogopteris xanthipes</i> ; <i>Pteromys volans</i>	WU LING ZHI
Trojan Milkvetch*	T0809 <i>Astragalus trojanus</i>	TE LUO YI HUANG QI
Tropic Ageratum	T0229 <i>Ageratum conyzoides</i>	SHENG HONG JI
Tropical American Hymenocallis Leaf	T3320 <i>Hymenocallis littoralis</i> [Syn. <i>Hymenocallis americana</i> ; <i>Pancratium littoralis</i>]	SHUI GUI JIAO YE
tropical fungus <i>Botryodiplodia theobromae</i>	T0997 <i>Botryodiplodia theobromae</i>	
True Indigo	T3423 <i>Indigofera tinctoria</i>	MU LAN
True Lacquer	T5542 <i>Rhus verniciflua</i> [Syn. <i>Toxicadendron verniciflum</i>]	SHENG QI
True Lacquer Seed	T5541 <i>Rhus verniciflua</i> [Syn. <i>Toxicadendron verniciflum</i>]	QI ZI
Tschonosk Trillium	T6535 <i>Trillium tschonoskii</i>	YAN LING CAO
Tsihanim Pricklyash*	T6898 <i>Zanthoxylum tsihanimposa</i>	QI HAN NING HUA JIAO
Tubaroot Jewelvine	T2118 <i>Derris elliptica</i>	MAO YU TENG
Tubeflower Dutchmanspipe	T0642 <i>Aristolochia tubiflora</i>	GUAN HUA MA DOU LING
Tubeflower Gentian	T2932 <i>Gentiana siphonantha</i>	GUAN HUA QIN JIAO
Tuber Fleeceflower	T5107 <i>Polygonum multiflorum</i>	HE SHOU WU
Tuber Fleeceflower Stem	T5108 <i>Polygonum multiflorum</i>	YE JIAO TENG
Tuber Onion	T0322 <i>Allium tuberosum</i>	JIU CAI
Tuber Onion Seed	T0323 <i>Allium tuberosum</i>	JIU ZI
Tuber Stemona	T6115 <i>Stemona tuberosa</i>	BAI BU
Tuberculate Bredia	T1023 <i>Bredia tuberculata</i>	HONG MAO YE HAI TANG
Tuberculate Pepper*	T4972 <i>Piper tuberculatum</i>	LIU TU HU JIAO
Tuberculate Rue*	T5633 <i>Ruta tuberculata</i> [Syn. <i>Haplophyllum tuberculatum</i>]	LIU ZHUANG DAN YE YUN XIANG
Tuberculate Speranskia	T6069 <i>Speranskia tuberculata</i>	TOU GU CAO
Tuberose	T5061 <i>Polianthes tuberosa</i>	WAN XIANG YU

Tuberous Comfrey	T6248 <i>Symphytum tuberosum</i>	KUAI JING XI MEN FEI CAO
Tuberous Corydalis*	T1748 <i>Corydalis tuberosa</i>	KUAI JING ZI JIN
Tuberous Dutchmanspipe	T0641 <i>Aristolochia tuberosa</i>	KUAI JING MA DOU LING
Tuberous Kudzuvine*	T5321 <i>Pueraria tuberosa</i>	KUAI JING GE
Tuberous Milkweed	T0741 <i>Asclepias tuberosa</i>	KUAI JING MA LI JIN
Tuberousroot Jerusalem sage	T4813 <i>Phlomis tuberosa</i>	KUAI JING CAO SU
Tubeshaped Flower Cistanche	T1458 <i>Cistanche tubulosa</i>	GUAN HUA ROU CONG RONG
Tubularflower Asiabell	T1603 <i>Codonopsis tubulosa</i>	GUAN HUA DANG SHEN
Tulip Hybrid*	T6563 <i>Tulipa hybrida</i>	YU JIN XIANG ZA JIAO ZHONG
Tung Oil	T0299 <i>Aleurites cordata</i> [Syn. <i>Aleurites fordii</i>]	TONG YOU
Tunicate Tephrosia*	T6342 <i>Tephrosia tunicata</i>	BAO MO HUI MAO DOU
Tuniclike Psammosilene	T5250 <i>Psammosilene tunicoides</i>	JIN TIE SUO
Turkestan Ash	T2775 <i>Fraxinus potanophila</i>	TU ER QI SI TAN BAI LA SHU
Turkestan Gentian*	T2939 <i>Gentiana turkestanorum</i>	TU ER QI SI TAN LONG DAN
Turkey Tulip*	T6565 <i>Tulipa turkestanti</i>	TU ER QI YU JIN XIANG
Turkish Larkspur*	T2070 <i>Delphinium crispulum</i>	TU ER QI CUI QUE HUA
Turkish Sage*	T5668 <i>Salvia cilicica</i>	TU ER QI SHU WEI CAO
Turkish Snowdrop*	T2823 <i>Galanthus plicatus</i> ssp. <i>byzantinus</i>	TU ER QI XUE HUA LIAN
Turnip	T1021 <i>Brassica rapa</i>	WU QING
Turnip-shaped Hawksbeard	T1789 <i>Crepis napifera</i>	YUAN JING HUAN YANG SHEN
Turpentine Tree	T4981 <i>Pistacia terebinthus</i>	RU DU XIANG
Tutsan	T3338 <i>Hypericum androsaemum</i>	TU SAN JIN SI TAO
Twiggy Buckthorn	T5464 <i>Rhamnus virgata</i>	ZHOU ZHI SHU LI
Twinflower Skullcap	T5844 <i>Scutellaria scordifolia</i>	BING TOU HUANG QIN
Twisting Dregia	T2263 <i>Dregia volubilis</i>	NAN SHAN TENG
Twoanther Mosla	T4305 <i>Mosla dianthera</i>	DA YE XIANG RU
Twocolor-flower Sage*	T5670 <i>Salvia dichroantha</i>	ER SE HUA SHU WEI CAO
Twocoloured Frangipani*	T5030 <i>Plumeria bicolor</i>	SHUANG SE JI DAN HUA
Twocoloured Pleurospermum	T5019 <i>Pleurospermum govianum</i> var. <i>bicolor</i>	SHUANG SE SUO ZI QIN
Twodentate Germander	T6359 <i>Teucrium bidentatum</i>	ER CHI XIANG KE KE
Twoedged Loosestrife	T4006 <i>Lythrum anceps</i>	RI BEN QIAN QU CAI
Twoflower Jerusalemcherry	T5993 <i>Solanum capsicastrum</i>	YE HAI JIAO
Twoflower Pancratium	T4612 <i>Pancratium biflorum</i>	QUAN NENG HUA
Twoflower Red silkyarn	T3953 <i>Lycianthes biflora</i>	HONG SI XIAN
Twolobed Official Mangolia	T4034 <i>Magnolia biloba</i>	AO YE HOU PO
Twopetaline Pricklyash*	T6875 <i>Zanthoxylum dipetalum</i>	ER DUN ZHUANG HUA JIAO
Twoshape Arachniodes	T0562 <i>Arachniodes dimorphophylla</i>	
Twotooth Achyrantes	T0073 <i>Achyrantes bidentata</i>	NIU XI
Two-winged Palea Liverwort*	T4108 <i>Marchantia paleacea</i> var. <i>diptera</i>	ER YI TUO BAO DI QIAN
Typical Licorice*	T3014 <i>Glycyrrhiza glabra</i> var. <i>typica</i>	OU YA GAN CAO
Ucahub; Baboen	T6770 <i>Virola surinamensis</i> [Syn. <i>Myristica surinamensis</i>]	SU LI NAN ROU DOU KOU
Udo	T0569 <i>Aralia cordata</i>	TU DANG GUI
Uganda Padritree*	T6141 <i>Stereospermum kunthianum</i>	WU GAN DA YU YE QIU
Ukrainian Narrowleaf Narcissus*	T4373 <i>Narcissus angustifolius</i>	WU KE LAN XIA YE SHUI XIAN
Umbellate Hydrangea	T3308 <i>Hydrangea umbellata</i>	SAN XING XIU QIU
Umbellate Pepper*	T4973 <i>Piper umbellatum</i>	SAN XING HU JIAO
Umbellate Rapanea*	T5418 <i>Rapanea umbellata</i>	SAN HUA MI HUA SHU
Umbels Heath	T2418 <i>Erica umbellata</i>	SAN XING OU SHI NAN
Uña de Gato (Cat's Claw)	T6637 <i>Uncaria tomentosa</i>	BI LU GOU TENG
Unarmed Glorybower	T1558 <i>Clerodendron inerme</i>	SHUI HU MAN
Unarmed Glorybower	T1566 <i>Clerodendrum inerme</i>	KU LANG SHU
Uncinate Tailgrape*	T0657 <i>Artabotrys uncinatus</i>	YOU GOU YING ZHAO
Undaria	T6640 <i>Undaria pinnatifida</i>	QUN DAI CAI

Undulate-leaf Quassiawood*	T3098 <i>Hannoa undulata</i>	BO YE KU MU
Unequal Brake	T5291 <i>Pteris inaequalis</i>	BIAN YI FENG WEI JUE
Unequalhair Paoshan Monkshood	T0116 <i>Aconitum nagarum</i> var. <i>heterotrichum</i> [Syn. <i>Aconitum bullatifolium</i>]	XIAO BAI CHENG
Unfortunate Glorybower	T1559 <i>Clerodendron infortunatum</i>	QIAN YU DA QING
Unguiculate Hemsley Monkshood	T0102 <i>Aconitum hemsleyanum</i> var. <i>leueanthus</i>	ZHUA KUI GUA YE WU TOU
Unibract Fritillary	T2796 <i>Fritillaria unibracteata</i>	AN ZI BEI MU
Uniflower Swissscentaury	T5466 <i>Rhaponticum uniflorum</i>	LOU LU
Union Nut	T0998 <i>Bouchardatia neurococca</i>	
unsteadiness mould's metabolite	T6643 unsteadiness mould's metabolite	
Upland Cotton	T3058 <i>Gossypium hirsutum</i> [Syn. <i>Gossypium mexicanum</i>]	LU DI MIAN
Upland Cress	T0870 <i>Barbarea vulgaris</i>	OU ZHOU SHAN JIE
Upland White Aster	T0780 <i>Aster ptarmicoides</i>	TUN CAO ZI WAN
Ural Falsespiraea	T6052 <i>Sorbaria sorbifolia</i>	ZHEN ZHU MEI
Ural Licorice	T3022 <i>Glycyrrhiza uralensis</i>	GAN CAO
Ural's Lichen	T6603 <i>Umbilicaria proboscidea</i>	WU LA ER DI YI
Ussuri Falsehellebore	T6699 <i>Veratrum nigrum</i> var. <i>ussuriense</i>	WU SU LI LI LU
Ussuri Fritillary	T2797 <i>Fritillaria ussuriensis</i>	PING BEI MU
Ussuri Lepisorus	T3765 <i>Lepisorus ussuriensis</i>	WU SU LI WA WEI
Ussuri Poplar	T5165 <i>Populus ussuriensis</i>	DA QING YANG
Utilizable Hopea*	T3281 <i>Hopea utilis</i>	YOU YONG PO LEI
Wabu Fritillary*	T2799 <i>Fritillaria wabuensis</i>	WA BU BEI MU
Vachelli Gulfweed*	T5740 <i>Sargassum vachellianum</i>	WA SHI MA WEI ZAO
Vaginate Hemlockparsley	T1641 <i>Conioselinum vaginatum</i>	XIN JIANG GAO BEN
Vaginate Stonebean-orchis*	T1054 <i>Bulbophyllum vaginatum</i>	QIAO SHI DOU LAN
Wagner Windmill Palm	T6486 <i>Trachycarpus wagnerianus</i>	WA SHI ZONG LV
Valdiv Barberrry	T0918 <i>Berberis valdiviana</i>	WA SHI XIAO BO
Walking Maidenhair	T0172 <i>Adiantum caudatum</i>	BIAN YE TIE XIAN JUE
Wallich Cowparsnip*	T3227 <i>Heracleum wallichii</i>	WA SHI DU HUO
Wallich Crestpetal-tree	T3922 <i>Lophopetalum wallichii</i>	WO LI HE GUAN BAN
Wallich Lasianthus	T3698 <i>Lasianthus wallichii</i>	XIE JI CU YE MU
Wallich Madder	T5585 <i>Rubia wallichiana</i>	GUANG JING QIAN CAO
Wallich Poisonnut	T6193 <i>Strychnos wallichiana</i>	CHANG ZI MA QIAN
Wallich Scleropyrum	T5815 <i>Scleropyrum wallichianum</i>	YING HE
Wallichi's Brake	T5299 <i>Pteris wallichinan</i>	SAN CHA FENG WEI JUE
Waltsberg Holarrhena*	T3269 <i>Holarrhena waltsbergii</i>	WO SHI ZHI XIE MU
Wandoo Eucalyptus*	T2523 <i>Eucalyptus wandoo</i>	WO SHI AN
Vanilla	T6684 <i>Vanilla planifolia</i>	XIANG ZI LAN
Vanillagrass	T3250 <i>Hierochloe odorata</i>	MAO XIANG HUA
Wanshan Epimedium	T2405 <i>Epimedium wanshanense</i>	WAN SHAN YIN YANG HUO
Variable Rosewood*	T2018 <i>Dalbergia variabilis</i>	YI BIAN HUANG TAN
Variagate Bauhinia*	T0881 <i>Bauhinia variegata</i>	CAI BAN YANG TI JIA
Variegated Cowlily	T4451 <i>Nuphar variegatum</i>	BAN YE PING PENG CAO
Wartyfruit Amomum	T0418 <i>Amomum muricarpum</i>	YOU GUO DOU KOU
Vase Thelephore	T6422 <i>Thelephora vialis</i>	LIAN ZUO GE JUN
Vaseyana Big Sagebrush*	T0703 <i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	WA SI YA NA SAN CHI HAO
Water Nightshade	T6015 <i>Solanum torvum</i>	SHUI QIE
Water Seedbox*	T3932 <i>Ludwigia octovalvis</i>	MAO CAO LONG
Water-clover	T4121 <i>Marsilea quadrifolia</i>	PING
Watercress	T4388 <i>Nasturtium officinale</i>	DOU BAN CAI
Waterlilyleaf Goldenray	T3810 <i>Ligularia nelumbifolia</i>	LIAN YE TUO WU
Watermelon	T1464 <i>Citrullus vulgaris</i> [Syn. <i>Citrullus lanatus</i>]	XI GUA
Watermelon Seed	T1465 <i>Citrullus vulgaris</i> [Syn. <i>Citrullus lanatus</i>]	XI GUA ZI REN

Watery Speedwell	T6722 <i>Veronica anagallis-aquatica</i>	BEI SHUI KU MAI
Watt Tupistra	T6567 <i>Tupistra wattii</i> [Syn. <i>Campylandra wattii</i>]	WAN RUI KAI KOU JIAN
Wattle	T0024 <i>Acacia mearnsii</i>	HEI JING SHU
Waxy Litse*	T3895 <i>Litsea sebifera</i>	LA ZHI MU JIANG ZI
Waxy Meadowrue	T6406 <i>Thalictrum revolutum</i>	WAI JUAN TANG SONG CAO
Wayaka Yambean	T4573 <i>Pachyrrhizus erosus</i>	DOU SHU
Wayaka Yambean Seed	T4572 <i>Pachyrrhizus erosus</i>	DI GUA ZI
Weaversbroom	T6064 <i>Spartium junceum</i>	YING ZHAO DOU
Weeping Forsythia	T2756 <i>Forsythia suspensa</i>	LIAN QIAO
Weeping Viburnum*	T6740 <i>Viburnum suspensum</i>	XUAN CHUI JIA MI
Veined Argyreia	T0614 <i>Argyreia nervosa</i>	YE MAI YIN BEI TENG
Veined Inula	T3436 <i>Inula nervosa</i>	XIAN MAI XUAN FU HUA
Veined Rabdosia	T5395 <i>Rabdosia nervosa</i>	XIAN MAI XIANG CHA CAI
Veined Swertia*	T6228 <i>Swertia nervosa</i>	XIAN MAI ZHANG YA CAI
Veinfruit Seabuckthorn	T3253 <i>Hippophae neurocarpa</i>	LEI GUO SHA JI
Weisi Rabdosia	T3534 <i>Isodon weisiensis</i>	WEI XI XIANG CHA CAI
Veitch Dysosma	T2304 <i>Dysosma veitchii</i>	CHUAN BA JIAO LIAN
Veitch Mahonia	T4076 <i>Mahonia veitchiorum</i>	CHUAN DIAN SHI DA GONG LAO
Veitch Peony	T4590 <i>Paeonia veitchii</i>	CHUAN CHI SHAO
Vellayim	T3271 <i>Holoptelea integrifolia</i>	YIN MIAN YU
Welsh Poppy	T4142 <i>Meconopsis cambrica</i>	WEI ER SHI LV RONG HAO
Weltd Thistle	T1199 <i>Carduus acanthoides</i>	JIE MAO FEI LIAN
Velutinous Cinquefoil	T5183 <i>Potentilla griffithii</i> var. <i>velutina</i>	CHANG ROU MAO WEI LING CAI
Velutinous Gambirplant*	T6638 <i>Uncaria velutina</i>	DUAN RONG MAO GOU TENG
Velutinous Hoarhound*	T4113 <i>Marrubium velutinum</i>	DUAN RONG MAO OU XIA ZHI CAO
Velvet Tamarind	T2138 <i>Dialium guineense</i>	
Wenchuan Thorowax*	T1078 <i>Bupleurum wenchuanense</i>	WEN CHUAN CHAI HU
Venenous Alstonia*	T0377 <i>Alstonia venenata</i>	YIN DU YA JIAO SHU
Venenous Pricklyash*	T6899 <i>Zanthoxylum veneficium</i>	DU HUA JIAO
Vengai Padauk	T5302 <i>Pterocarpus marsupium</i>	NANG ZHUANG ZI TAN
Wengujin Culcuma*	T1907 <i>Curcuma wengujin</i>	WEN YU JIN
Venus Maidenhair	T0179 <i>Adiantum venustum</i>	XI YE TIE XIAN JUE
Venus Tailgrape*	T0658 <i>Artabotrys venustus</i>	XIU LI YING ZHAO
Venus's Flytrap	T2186 <i>Dionaea muscipula</i>	BU YING CAO
Verecun Plum*	T5245 <i>Prunus verecunda</i>	WEI RUI LI
Vermeil-sulphureous Laetiporus*	T3666 <i>Laetiporus sulphureus</i> var. <i>miniatus</i>	ZHU HONG LIU HUANG SE XUN
		KONG JUN
Vermiculate Thamnolia Thallus	T6416 <i>Thamnolia vermicularis</i>	XUE CHA
Vermilion Rhododendron	T5506 <i>Rhododendron cinnabarinum</i>	ZHU SHA DU JUAN
Verrucatespot Euonymus	T2548 <i>Euonymus verrucosides</i>	YOU DIAN WEI MAO
Versicolorous Dutchmanspipe	T0643 <i>Aristolochia versicolor</i>	BIAN SE MA DOU LING
Versicolorous Mosquitotrap	T1962 <i>Cynanchum versicolor</i>	WAN SHENG BAI WEI
Versicolorous Pink	T2147 <i>Dianthus versicolor</i>	BIAN SE SHI ZHU
Verticillate Bushmint*	T3383 <i>Hyptis verticillata</i>	LUN SHENG SHAN XIANG
Verticillate Cladonia	T1529 <i>Cladonia verticillata</i>	XIAO LA BA
Very-hard Agave*	T0224 <i>Agave rigidissima</i>	JI JIAN LONG SHE LAN
Vesper Iris	T3457 <i>Iris dichotoma</i>	BAI HUA SHE GAN
West Africa Afrormosia	T0208 <i>Afrormosia elata</i>	XI FEI HONG DOU SHU
West Indian Mahogany	T6241 <i>Swietenia mahogany</i>	TAO HUA XIN MU
Vested Acronychia*	T0153 <i>Acronychia vestita</i>	BAO SHAN YOU GAN
Western Arborvitae	T6441 <i>Thuja plicata</i>	BEI MEI XIANG BAI
Western Hemlock	T6558 <i>Tsuga heterophylla</i>	YI YE TIE SHAN
Western Juniper	T3591 <i>Juniperus occidentalis</i>	XI FANG CI BAI

Western Red Cedar	T3597 <i>Juniperus scopulorum</i>	LUO JI SHAN YUAN BAI
Western Sage	T0682 <i>Artemisia ludoviciana</i>	LU DE WEI HAO
West-Shiko Rabdosia*	T3527 <i>Isodon shikokiana</i> var. <i>occidentalis</i>	XI SI GUO XIANG CHA CAI
Vetchleaf Sophora	T6046 <i>Sophora viciifolia</i>	BAI CI HUA
Vetchleaf Sophora Leaf	T6048 <i>Sophora viciifolia</i>	BAI CI HUA YE
Vetchleaf Sophora Root	T6047 <i>Sophora viciifolia</i>	BAI CI HUA GEN
Vetchleaf Sophora Seed	T6049 <i>Sophora viciifolia</i>	BAI CI HUA ZI
Vetiver	T6733 <i>Vetiveria zizanioides</i>	YAN LAN CAO
Wetland St.John'swort*	T3367 <i>Hypericum uliginosum</i>	SHI SHENG JIN SI TAO
Wheat	T6544 <i>Triticum aestivum</i> [Syn. <i>Triticum vulgare</i>]	XIAO MAI
Wheelstamentree	T6549 <i>Trochodendron aralioides</i>	KUN LAN SHU
Whiplash Star-of-Bethlehem	T4534 <i>Ornithogalum caudatum</i>	HU YAN WAN NIAN QING
White Ash	T2765 <i>Fraxinus americana</i>	NEI GUO BAI CEN
White Aspen	T5145 <i>Populus alba</i>	YIN BAI YANG
White Bryony	T1042 <i>Bryonia alba</i>	BAI XIE GEN
White Bur Sage	T0401 <i>Ambrosia dumosa</i>	BAI CI GUO TUN CAO
White Chinaure	T0964 <i>Boenninghausenia albiflora</i>	YAN JIAO CAO
White Clover	T6522 <i>Trifolium repens</i>	SAN XIAO CAO
White Cowparsnip*	T3221 <i>Heracleum rapula</i>	BAI YUN HUA
White Dysosma*	T2301 <i>Dysosma majorensis</i> [Syn. <i>Podophyllum majorense</i> ; <i>Dysosma lichuanensis</i>]	BAI BA JIAO LIAN
White Falsehellebore	T6692 <i>Veratrum album</i>	BAI LI LU
White Flax	T3858 <i>Linum album</i>	BAI YA MA
White Fuliga*	T2806 <i>Fuligo candida</i>	LIANG BAI MEI RONG JUN
White Gambirplant	T6632 <i>Uncaria sessilifructus</i> [Syn. <i>Nauclea sessilifructus</i>]	BAI GOU TENG
White Henna*	T3731 <i>Lawsonia alba</i>	BAI SAN MO HUA
White Linden*	T6456 <i>Tilia alburnum</i>	BAI DUAN
White Lotus, Egyptian Lotus	T4455 <i>Nymphaea lotus</i>	CHI YE SHUI LIAN
White Lupin	T3939 <i>Lupinus albus</i>	BAI YU SHAN DOU
White Mangrove	T3677 <i>Laguncularia racemosa</i>	JIA HONG SHU
White Milkweed	T0735 <i>Asclepias albicans</i>	BIAN BAI MA LI JIN
White Mistletoe	T6771 <i>Viscum album</i>	LUAN YE HU JI SHENG
White Mulberry Branch	T4290 <i>Morus alba</i>	SANG ZHI
White Mulberry Fruit	T4288 <i>Morus alba</i>	SANG SHI
White Mulberry Leaf	T4289 <i>Morus alba</i>	SANG YE
White Mulberry Root-bast	T4287 <i>Morus alba</i>	SANG BAI PI
White Mullein	T6701 <i>Verbascum lychnites</i>	JIAN QIU LUO MAO RUI HUA
White Mustard Seed	T5958 <i>Sinapis alba</i> [Syn. <i>Brassica alba</i> ; <i>Brassica hirta</i>]	BAI JIE ZI
White Pearlweed	T3996 <i>Lysimachia candida</i>	DAN TIAO CAO
White Poppy*	T4620 <i>Papaver album</i>	BAI HUA YING SU
White Pummelo*	T1482 <i>Citrus grandis</i> f. <i>hakunikuju</i>	BAI YOU
White Snakeroot	T2579 <i>Eupatorium urticaefolium</i>	QIAN MA YE ZE LAN
White Swallow-wort	T6763 <i>Vincetoxicum officinale</i> [Syn. <i>Cynanchum vincetoxicum</i>]	YAO YONG BAI QIAN
White Sweetclover	T4170 <i>Melilotus albus</i>	BAI XIANG CAO MU XI
Whitebackleaf Mallotus	T4080 <i>Mallotus apelta</i>	BAI BEI YE
Whiteflower Caesalpinia	T1106 <i>Caesalpinia minax</i>	KU SHI LIAN
Whiteflower Danshen	T5681 <i>Salvia miltiorrhiza</i> f. <i>alba</i>	BAI HUA DAN SHEN
Whiteflower Embelia	T2348 <i>Embelia ribes</i>	XIAN SUAN QIANG
Whiteflower Hogfennel	T4768 <i>Peucedanum praeruptorum</i>	BAI HUA QIAN HU
Whiteflower Lagopsis	T4112 <i>Marrubium supinum</i> [Syn. <i>Lagopsis supina</i>]	BAI HUA XIA ZHI CAO
Whiteflower Leadword	T5029 <i>Plumbago zeylanica</i>	BAI HUA DAN
Whiteflower Mucuna	T4308 <i>Mucuna birdwoodiana</i>	BAI HUA YOU MA TENG
Whiteflower Patrinia	T4676 <i>Patrinia villosa</i>	BAI JIANG

Whiteflower Rostellularia	T3609 <i>Justicia procumbens</i> var. <i>leucantha</i>	BAI HUA JUE CHUANG
Whiteflower Trillium	T6531 <i>Trillium camtschaticum</i>	YU ER QI
Whiteflower Trillium*	T6533 <i>Trillium kamtschaticum</i>	JI LIN YAN LING CAO
White-flowerButterbur*	T4738 <i>Petasites albus</i>	BAI HUA FENG DOU CAI
Whitehairy Beautyberry	T1117 <i>Callicarpa candicans</i>	BAI MAO ZI ZHU
Whiteleaf Aglaia*	T0239 <i>Aglaia leucophylla</i>	BAI YE MI ZI LAN
Whiteleaf Japanese Magnolia	T4044 <i>Magnolia obovata</i>	RI BEN HOU PO
Whiteleaf Nepeta	T4416 <i>Nepeta leucophylla</i>	BAI YE JING JIE
Whiteleaf Rabdosia*	T3503 <i>Isodon leucophyllus</i>	BAI YE XIANG CHA CAI
Whitopilose Rabdosia	T3478 <i>Isodon albobilosus</i>	BAI ROU MAO XIANG CHA CAI
White-punctated Combretum*	T1630 <i>Combretum albopunctatum</i>	BAI DIAN FENG CHE ZI
Whitespot Betony	T6093 <i>Stachys sylvatica</i>	LIN DI SHUI SU
Whitethorn*	T4435 <i>Nitraria schoberi</i>	DONG QIANG
Whitethroat Monkshood	T0111 <i>Aconitum leucostomum</i>	BAI HOU WU TOU
Whittaker Sundew*	T2270 <i>Drosera whittakeri</i>	HUI TE KE MAO GAO CAI
Whorlleaf Litsea	T3897 <i>Litsea verticillata</i>	DIE DA LAO
Viatic Nightshade*	T6019 <i>Solanum viarum</i>	XIAO LU QIE
Widely distributed in nature	T6817 widely distributed in nature	
Wiedemann Sage*	T5699 <i>Salvia wagneriana</i>	
Viet Nam Croton*; Kho Sam Cho La	T1859 <i>Croton tonkinensis</i>	DONG JIN BA DOU
Wight's St.John'swort	T3368 <i>Hypericum wightianum</i>	BIAN DI JIN
Wightiana Chaulmoogratree Seed*	T3301 <i>Hydnocarpus wightiana</i>	WEI SHI DA FENG ZI
Wild Angelica	T0497 <i>Angelica sylvestris</i>	LIN BAI ZHI
Wild Bleedingheart	T2149 <i>Dicentra eximia</i>	SUI MAO HE BAO MU DAN
Wild Boar Gall	T6205 <i>Sus scrofa</i>	YE ZHU DAN
Wild Cabbage	T1013 <i>Brassica oleracea</i>	YE JIE
Wild Carrot	T2048 <i>Daucus carota</i>	HE SHI FENG
Wild Carrot Fruit	T2049 <i>Daucus carota</i>	NAN HE SHI
Wild Gourd	T1460 <i>Citrullus colocynthis</i>	YAO XI GUA
Wild Gromwell*	T3883 <i>Lithospermum ruderale</i>	LU BIAN ZI CAO
Wild Honeysuckle	T3909 <i>Lonicera confusa</i>	HUA NAN REN DONG
Wild Leek	T0309 <i>Allium ampeloprasum</i>	DA TOU SUAN
Wild Mint	T4184 <i>Mentha haplocalyx</i> [Syn. <i>Mentha canadaensis</i> ; <i>Mentha arvensis</i> var. <i>haplocalyx</i> ; <i>Mentha arvensis</i>]	BO HE
Wild Pea	T3713 <i>Lathyrus sylvestris</i>	LIN SHENG SHAN LI DOU
Wild poplar	T5151 <i>Populus davidiana</i>	SHAN YANG
Wild Rum-cherry	T5240 <i>Prunus serotina</i>	YE HEI YING
Wild Spikenard	T3381 <i>Hyptis suaveolens</i>	SHE BAI ZI
Wild Thermopsis	T6429 <i>Thermopsis lupinoides</i>	YE JUE MING
Wildcelery	T0544 <i>Apium graveolens</i>	HAN QIN
Wildcelery Variety	T0545 <i>Apium graveolens</i> var. <i>dulce</i>	HAN QIN BIAN ZHONG
Wildginger-leaf Morning Glory*	T3446 <i>Ipomoea asarifolia</i>	XI XIN YE QIAN NIU
Wildhairdaisy	T5756 <i>Saussurea japonica</i>	FENG MAO JU
Wilford Cranesbill	T2949 <i>Geranium wilfordii</i>	LAO GUAN CAO
Wilford Swallowwort	T1964 <i>Cynanchum wilfordii</i> [Syn. <i>Cynoctonum wilfordii</i>]	GE SHAN XIAO
Willmott Ceratostigma	T1329 <i>Ceratostigma willmottianum</i>	ZI JIN LIAN
Villous Amomum	T0419 <i>Amomum villosum</i>	SHA REN
Villous Rangooncreeper*	T5386 <i>Quisqualis indica</i> var. <i>villosa</i>	MAO SHI JUN ZI
Willowleaf Ash Bark	T2779 <i>Fraxinus stylosa</i>	LIU YE CEN
Willowleaf Magnolia*	T4049 <i>Magnolia salicifolia</i>	LIU YE MU LAN
Willowleaf Sarcococca	T5732 <i>Sarcococca saligna</i>	YE SHAN HUA
Willowleaf Swallowwort	T1960 <i>Cynanchum stauntonii</i>	LIU YE BAI QIAN
Willowweedleaf Skullcap	T5837 <i>Scutellaria epilobifolia</i>	LIU YE CAI HUANG QIN

Wilson Barberry	T0920 <i>Berberis wilsonae</i>	JIN HUA XIAO BO
Wilson Buckeye Seed	T0205 <i>Aesculus wilsonii</i>	SUO LUO ZI
Wilson Citron	T1520 <i>Citrus wilsonii</i>	XIANG YUAN
Wilson Orange Young Fruit	T1521 <i>Citrus wilsonii</i>	XIANG YUAN ZHI SHI
Wilson Plumyew	T1325 <i>Cephalotaxus wilsoniana</i>	TAI WAN CU FEI
Wilson Yarrow	T0069 <i>Achillea wilsoniana</i>	YUN NAN SHI
Vinegar	T6764 Vinegar	CU Vinegar
Winged Euonymus	T2536 <i>Euonymus alatus</i>	GUI JIAN YU
Winged Jurinea*	T3604 <i>Jurinea alata</i>	YI CHI LING JU
Winged Laggera	T3674 <i>Laggera alata</i>	LIU LENG JU
Winged Physochlaina*	T4857 <i>Physochlaina alaica</i>	YI PAO NANG CAO
Winged Yam	T2188 <i>Dioscorea alata</i>	MAO SHU
Wingfruit Milkvetch*	T0802 <i>Astragalus pterocarpus</i>	CHI GUO HUANG QI
Winked Marshweed	T3840 <i>Limnophila rugosa</i>	SHUI HUI XIANG
Winter Daffodil	T6144 <i>Sternbergia lutea</i>	HUANG SI TAN BAO
Winter Daphne Flower	T2028 <i>Daphne odora</i>	RUI XIANG HUA
Winter Daphne Root	T2027 <i>Daphne odora</i>	RUI XIANG GEN
Winter Jasmine	T3555 <i>Jasminum nudiflorum</i>	YING CHUN HUA
Winter Lemongrass*	T1948 <i>Cymbopogon winterianus</i>	WEN TE XIANG MAO
Winterberry Euonymus	T2538 <i>Euonymus bungeanus</i>	SI MIAN MU
Wintergreen Barberry	T0906 <i>Berberis julianae</i>	TU HUANG LIAN
Wintersweet Bud	T1366 <i>Chimonanthus fragrans</i> [Syn. <i>Chimonanthus praecox</i>]	LA MEI HUA
Violet Monkshood*	T0140 <i>Aconitum violaceum</i>	ZI WU TOU
Violet Morningglory*	T3453 <i>Ipomoea violacea</i>	QING ZI QIAN NIU
Viper's-glass	T5825 <i>Scorzonera humilis</i>	AI SHENG YA CONG
Virescent Larkspur	T2090 <i>Delphinium virescens</i>	DAN LV CUI QUE
Virgate Wormwood	T0695 <i>Artemisia scoparia</i> [Syn. <i>Artemisia capillaris</i> var. <i>scoparia</i>]	HUANG HAO
Virginia Chain Fern	T6832 <i>Woodwardia virginica</i>	FU JI NI YA GOU JI JUE
Virginia Pepperweed Seed	T3759 <i>Lepidium virginicum</i>	BEI MEI TING LI ZI
Virginia Witch Hazel	T3095 <i>Hamamelis virginiana</i>	MEI ZHOU JIN LV MEI
Viridian Common Perilla*	T4716 <i>Perilla frutescens</i> f. <i>viridis</i>	QING ZI SU
Viscid Primrose*	T5205 <i>Primula viscosa</i>	NIAN BAO CHUN
Viscid Wormwood*	T0670 <i>Artemisia cana</i> ssp. <i>viscidula</i>	NIAN HAO
Viscidhair Skullcap	T5845 <i>Scutellaria viscidula</i>	ZHAN MAO HUANG QIN
Viscidhairy Knotweed	T5122 <i>Polygonum viscosum</i>	ZHAN MAO LIAO
Viscose Cinquefoil*	T5188 <i>Potentilla viscosa</i>	NIAN WEI LING CAI
Volcanic Peperomia*	T4708 <i>Peperomia vulcanica</i>	HUO SHAN YAN CAO HU JIAO
Wolfs-milk Slime	T3960 <i>Lycogala epidendrum</i>	FEN LIU JUN
Volga Adonis	T0192 <i>Adonis wolgensis</i>	FU ER JIA CE JIN ZHAN HUA
Voluble Rosewood*	T2019 <i>Dalbergia volubilis</i>	CHAN RAO HUANG TAN
Wood Sage	T6369 <i>Teucrium scorodonia</i>	LIN SHI CAN
Woodland Beakchervil	T0529 <i>Anthriscus sylvestris</i>	E SHEN
Woodland Monkshood	T0120 <i>Aconitum nemorum</i>	LIN DI WU TOU
Woodland Sunflower	T3154 <i>Helianthus strumosus</i>	LIN DI XIANG RI KUI
Woodland Wormwood	T0700 <i>Artemisia sylvatica</i>	LIN DI HAO
Woods Lcaquertree	T5538 <i>Rhus sylvestris</i>	YE QI SHU ZI
Woods Lcaquertree Leaf	T5537 <i>Rhus sylvestris</i>	YE QI SHU YE
Wood-sorrel	T4562 <i>Oxalis acetosella</i>	SHAN ZUO JIANG CAO
Woody Fleabane	T3441 <i>Inula viscosa</i>	NIAN XING TU MU XIANG
Woolly Gambirplant*	T6623 <i>Uncaria lanosa</i>	MIAN MAO GOU TENG
Woolly Lespedeza	T3774 <i>Lespedeza tomentosa</i>	XIAO XUE REN SHEN
Woolly Morning Glory	T0616 <i>Argyrea speciosa</i>	MEI LI YIN BEI TENG
Woolly Philydrum	T4799 <i>Philydrum lanuginosum</i>	TIAN CONG

Woolly Seseli*	T5929 <i>Seseli ericephalum</i>	MIAN MAO XIE HAO
Woolly Tylophora	T6581 <i>Tylophora mollissima</i>	MIAN MAO WA ER TENG
Woollyfruit Rabdosia*	T3501 <i>Isodon lasiocarpus</i>	MIAN MAO GUO XIANG CHA CAI
Wooly Dutchmanspipe	T0634 <i>Aristolochia mollissima</i>	MIAN MAO MA DOU LING
Worm-killed Bitterleaf	T6713 <i>Vernonia anthelmintica</i>	QU CHONG BAN JIU JU
Wormwood-like Motherwort	T3752 <i>Leonurus heterophyllus</i> [Syn. <i>Leonurus artemisia</i>]	YI MU CAO
Wrinkled Gianthyssop	T0212 <i>Agastache rugosus</i>	HUO XIANG
Wrinkleleaf Pyrola	T5352 <i>Pyrola rugosa</i>	ZHOU YE LU TI CAO
Wrinkleleaf Magnolia*	T4046 <i>Magnolia praecocissima</i>	ZHOU YE MU LAN
Wru Croton*	T1860 <i>Croton urucurana</i>	WULU BA DOU
Wushan Epimedium	T2406 <i>Epimedium wushanense</i>	WU SHAN YIN YANG HUO
Wych Elm	T6595 <i>Ulmus glabra</i>	SHAN YU
Xanthorrhiza Turmeric*	T1908 <i>Curcuma xanthorrhiza</i>	HUANG GEN JIANG HUANG
Yadong Monkshood	T0077 <i>Aconitum balfourii</i>	YA DONG WU TOU
Yangtao Actinidia	T0158 <i>Actinidia chinensis</i>	MI HOU TAO
Yanhusuo	T1750 <i>Corydalis yanhusuo</i> [Syn. <i>Corydalis turtchaninovii</i> f. <i>yanhusuo</i>]	YAN HU SUO
Ya-Yaa (Thai name)	T0812 <i>Asystasia intrusa</i>	CHA RU SHI WAN CUO
Yeast and other biological sources	T6857 Yeast and other biological sources	
Yeddo Spruce	T4871 <i>Picea jezoensis</i>	RI BEN YU LIN SONG
Yeddo Spruce	T4872 <i>Picea jezoensis</i> var. <i>jezoensis</i>	YU LIN YUN SHAN
Yellow Adonis	T0191 <i>Adonis vernalis</i>	CHUN FU SHOU CAO
Yellow Barberry	T0917 <i>Berberis tschonoskiana</i>	HUANG XIAO BO
Yellow Bedstraw	T2835 <i>Galium verum</i>	PENG ZI CAI
Yellow Bird's-nest	T4275 <i>Monotropa hypopitys</i>	HUANG SHUI JING LAN
Yellow Bugle	T0261 <i>Ajuga chamaeepitys</i>	HUANG JIN GU CAO
Yellow Cedar	T1348 <i>Chamaecyparis nootkatensis</i>	HUANG BIAN BAI
Yellow Cinnamon	T1443 <i>Cinnamomum parthenoxylum</i> [Syn. <i>Cinnamomum porrectum</i>]	XIANG ZHANG
Yellow Concave-top Alga*	T3721 <i>Laurencia nipponica</i>	HUANG SE AO DING CAO
Yellow Daylily	T3195 <i>Hemerocallis tilio-asphodelus</i>	BEI HUANG HUA CAI
Yellow Everlasting	T3156 <i>Helichrysum arenarium</i>	SHA SHENG LA JU
Yellow Gentian	T2918 <i>Gentiana lutea</i>	HUANG LONG DAN
Yellow Groundsel*	T5888 <i>Senecio flavus</i>	HUANG SE QIAN LI GUANG
Yellow Hardpeel Puff-ball*	T5814 <i>Scleroderma citrinum</i>	HUANG YING PI MA BO
Yellow Hornpoppy*	T2969 <i>Glaucium flavum</i>	HUANG HAI YING SU
Yellow Licorice	T3016 <i>Glycyrrhiza kansuensis</i>	HUANG GAN CAO
Yellow Lupin	T3943 <i>Lupinus luteus</i>	HUANG YU SHAN DOU
Yellow Monkshood	T0076 <i>Aconitum anthora</i>	HUANG WU TOU
Yellow Oleander	T6433 <i>Thevetia neriiifolia</i> [Syn. <i>Thevetia peruviana</i>]	HUANG HUA JIA ZHU TAO
Yellow Ouratea*	T4560 <i>Ouratea flava</i>	HUANG SAI JIN LIAN MU
Yellow Oxytropis	T4567 <i>Oxytropis campestris</i>	TIAN YE JI DOU
Yellow Pitcherplant	T5742 <i>Sarracenia flava</i>	HUANG PING ZI CAO
Yellow Poplar	T3871 <i>Liriodendron tulipifera</i>	BEI MEI E ZHANG QIU
Yellow Prairie-clover	T4737 <i>Petalostemum purpureum</i>	HUANG SE BAN RUI DOU
Yellow Toadflax	T3845 <i>Linaria vulgaris</i>	LIU CHUAN YU
Yellow Yam	T2205 <i>Dioscorea panthaica</i>	HUANG SHAN YAO
Yellowbow Dendrobium	T2099 <i>Dendrobium chrysotoxum</i>	GU CHUI SHI HU
Yellowflag Iris	T3467 <i>Iris pseudacorus</i>	HUANG CHANG PU
Yellowflower Coleus	T1621 <i>Coleus xanthanthus</i>	HUANG QIAO RUI HUA
Yellowflower Corydalis	T1731 <i>Corydalis pallida</i>	JU HUA HUANG LIAN
Yellowflower Hornpoppy*	T2967 <i>Glaucium davum</i>	HUANG HUA HAI YING SU
Yellowflower Milkwort	T5071 <i>Polygala arillata</i>	HUANG HUA YUAN ZHI
Yellowflower Rabdosia	T3524 <i>Isodon sculponeata</i> [Syn. <i>Rabdosia sculponeata</i>]	HUANG HUA XIANG CHA CAI

Yellowflower Sage	T5672 <i>Salvia flava</i>	HUANG HUA SHU WEI CAO
Yellowflower Spiderflower*	T1552 <i>Cleome viscosa</i>	HUANG HUA CAO
Yellow-flowering Pea	T1830 <i>Crotalaria retusa</i>	AO ZHU SHI DOU
Yellowfruit Nightshade	T6020 <i>Solanum xanthocarpum</i>	HUANG GUO QIE
Yellowhair Aralia	T0571 <i>Aralia decaisneae</i>	HUANG MAO CONG MU
Yellowhair Honeysuckle	T3910 <i>Lonicera fulvotomentosa</i>	HUANG HE MAO REN DONG
Yellowhair Monkshood	T0087 <i>Aconitum chrysotrichum</i>	HUANG MAO WU TOU
Yellow-hairy Calyx Kudzuvine	T5311 <i>Pueraria calycina</i>	HUANG MAO GE
Yellow-heart Pricklyash	T6880 <i>Zanthoxylum flavum</i>	HUANG XIN HUA JIAO
Yellowish Erysimum*	T2455 <i>Erysimum ochroleucum</i>	HUANG BAI TANG JIE
Yellowish Rabdosia	T3488 <i>Isodon flavidus</i>	DAN HUANG XIANG CHA CAI
Yellowish Swainsonia*	T6209 <i>Swainsonia luteola</i>	DAN HUANG KU MA DOU
Yellowish Swertia*	T6235 <i>Swertia punicea</i> var. <i>lutescens</i>	DAN HUANG ZHANG YA CAI
Yellowjuice Garcinia	T2880 <i>Garcinia xanthochymus</i>	DA YE TENG HUANG
Yellowleaf Sophora	T6030 <i>Sophora chrysophylla</i>	HUANG YE HUAI
Yellowmouth Dutchmanspipe	T0629 <i>Aristolochia heterophylla</i>	HAN FANG JI
Yellow-red Kopsia*	T3639 <i>Kopsia flavida</i>	HUANG HONG SE RUI MU
Yellowroot	T6846 <i>Xanthorrhiza simplicissima</i>	HUANG GEN SHU
Yerbadetajo	T2323 <i>Eclipta prostrata</i> [Syn. <i>Eclipta alba</i>]	MO HAN LIAN
Yinchow Thorowax	T1079 <i>Bupleurum yinchowense</i>	YIN ZHOU CHAI HU
Youth-and-old-age	T6912 <i>Zinnia elegans</i>	BAI RI CAO
Yucatan Tithonia	T6469 <i>Tithonia diversifolia</i>	ZHONG BIN JU
Yuko Citrus*	T1522 <i>Citrus yuko</i>	YU KE GAN JU
Yulan Magnolia	T4038 <i>Magnolia denudata</i> [Syn. <i>Magnolia heptapata</i>]	YU LAN
Yun Hogfennel	T4769 <i>Peucedanum rubricaulae</i>	YUN QIAN HU
Yungning Cowparsnip	T3228 <i>Heracleum yungningense</i>	YONG NING DU HUO
Yunnan Alstonia	T0378 <i>Alstonia yunnanensis</i>	DIAN JI GU CHANG SHAN
Yunnan Amentotaxus	T0409 <i>Amentotaxus yunnanensis</i>	YUN NAN SUI HUA SHAN
Yunnan Anisetree	T3407 <i>Illicium simonsii</i>	YUN NAN BA JIAO
Yunnan Combretum*	T1632 <i>Combretum yunnanensis</i>	YUN NAN FENG CHE ZI
Yunnan Craibiodendron	T1767 <i>Craibiodendron yunnanense</i>	JIN YE ZI
Yunnan Cuttongue tree	T6807 <i>Walsura yunnanensis</i>	YUN NAN GE SHE SHU
Yunnan Devilpepper	T5428 <i>Rauvolfia yunnanensis</i>	YUN NAN LUO FU MU
Yunnan Dodder	T1915 <i>Cuscuta reflexa</i>	YUN NAN TU SI ZI
Yunnan Galangal	T0353 <i>Alpinia blepharocalyx</i>	YUN NAN CAO KOU
Yunnan Gambirplant	T6639 <i>Uncaria yunnanensis</i>	DIAN GOU TENG
Yunnan Garcinia	T2852 <i>Garcinia cowa</i>	YUN NAN SHAN ZHU ZI
Yunnan Gaultheria	T2895 <i>Gaultheria yunnanensis</i>	DIAN BAI ZHU SHU
Yunnan Gingerlily	T3121 <i>Hedychium yunnanense</i>	DIAN JIANG HUA
Yunnan Goldthread	T1670 <i>Coptis teetoides</i> [Syn. <i>Coptis teeta</i>]	YUN NAN HUANG LIAN
Yunnan Hawthorn	T1781 <i>Crataegus scabrifolia</i>	YUN NAN SHAN ZHA
Yunnan Hemlock	T6557 <i>Tsuga dumosa</i>	YUN NAN TIE SHAN
Yunnan Kudzuvine	T5317 <i>Pueraria peduncularis</i>	YUN NAN GE TENG
Yunnan Landflower Mushroom*	T0287 <i>Albatrellus confluens</i>	YUN NAN DI HUA JUN
Yunnan Larkspur	T2091 <i>Delphinium yunnanense</i>	XIAO CAO WU
Yunnan Licorice	T3023 <i>Glycyrrhiza yunnanensis</i>	YUN NAN GAN CAO
Yunnan Madder	T5586 <i>Rubia yunnanensis</i>	XIAO HONG SHEN
Yunnan Manyleaf Paris	T4652 <i>Paris polyphylla</i> var. <i>yunnanensis</i>	YUN NAN CHONG LOU
Yunnan Mayten	T4134 <i>Maytenus hookeri</i>	YUN NAN MEI DENG MU
Yunnan Michelia	T4215 <i>Michelia yunnanensis</i>	YUN NAN HAN XIAO
Yunnan Parakmeria	T4641 <i>Parakmeria yunnanensis</i>	YUN NAN NI DAN XING MU LAN
Yunnan Pholidota	T4823 <i>Pholidota yunnanensis</i>	YUN NAN SHI XIAN TAO
Yunnan Pleurospermum	T5021 <i>Pleurospermum rivulorum</i>	YUN NAN QIANG HUO

Yunnan Rabdosia	T5401 <i>Rabdosia yunnanensis</i>	BU YU HONG
Yunnan Rhodiola	T5501 <i>Rhodiola yunnanesis</i>	YUN NAN HONG JING TIAN
Yunnan Sage	T5701 <i>Salvia yunnanensis</i>	YUN NAN SHU WEI CAO
Yunnan Sarcococca	T5731 <i>Sarcococca coriacea</i> [Syn. <i>Sarcococca wallichii</i>]	YUN NAN YE SHAN HUA
Yunnan Seabuckthorn*	T3258 <i>Hippophae rhamnoides</i> subsp. <i>yunnanensis</i>	YUN NAN SHA JI
Yunnan Seseli	T5937 <i>Seseli yunnanense</i>	SONG YE FANG FENG
Yunnan Skullcap	T5833 <i>Scutellaria amoena</i>	DIAN HUANG QIN
Yunnan Torreya	T6479 <i>Torreya yunnanensis</i>	YUN NAN FEI SHU
Yunnan Yew	T6319 <i>Taxus yunnanensis</i>	YUN NAN HONG DOU SHAN
Yunnanwest Monkshood	T0081 <i>Aconitum bulleyanum</i>	DIAN XI WU TOU
Zambesi Croton*	T1861 <i>Croton zambesicus</i>	ZAN BI XI BA DOU
Zedoary Turmeric	T1909 <i>Curcuma zedoaria</i> [Syn. <i>Curcuma aeruginosa</i>]	PING E SHU
Zerumbet Ginger	T6911 <i>Zingiber zerumbet</i>	HONG QIU JIANG
Zhejiang Swertia*	T6222 <i>Swertia hickinii</i>	ZHE JIANG ZHANG YA CAI
Zhongba Monkshood Daughter Root*	T0085 <i>Aconitum carmichaeli</i> cv	ZHONG BA E ZHANG YE FU ZI
Zonal Geranium	T4694 <i>Pelargonium zonale</i>	MA TI WEN TIAN ZHU KUI
Zuiho Machilus	T4019 <i>Machilus zuihoensis</i>	TAI WAN RUI FANG RUN NAN

The asterisk (*) following a plant English name shows that the name is given by authors of the books.

TCM Plant PIN-YIN/Chinese Name Index

PIN YIN Name	Chinese Name	English Name	Plant Code and Latin Name
A BI XI NI YA CI TONG	阿比西尼亚刺桐	Abyssinia Coralbean*	T2457 <i>Erythrina abyssinica</i>
A BI XI NI YA NIU JIN GUO	阿比西尼亚牛筋果*	Abyssinia Harrisonia*	T3108 <i>Harrisonia abyssinica</i>
A ER JI ER DA CHI JI	阿尔及尔大翅蓟	Algerian Cottonthistle*	T4496 <i>Onopordum algeriense</i>
A ER JI LI YA BU XUE CAO	阿尔及利亚补血草	Algerian Statice	T3841 <i>Limonium bonduellii</i>
A ER JI LI YA YUAN WEI	阿尔及利亚鸢尾	Algerian Iris	T3473 <i>Iris unguicularis</i>
A ER TAI YIN LIAN HUA	阿尔泰银莲花	Altai Anemone*	T0463 <i>Anemone altaica</i>
A ER TAI ZI WAN	阿尔泰紫菀	Altai Heteropappus	T3233 <i>Heteropappus altaicus</i>
A FU HAN DING XIANG	阿富汗丁香	Afghanistan Lilac*	T6258 <i>Syringa afghanica</i>
A FU HAN DU JUAN HUA	阿富汗杜鹃花	H.Collett's Rhododendron	T5507 <i>Rhododendron collettianum</i>
A FU HAN TANG JIE	阿富汗糖芥	Afghanistan Erysimum*	T2456 <i>Erysimum perofskianum</i>
A FU ZE ER MA QIAN ZI	阿弗泽尔马钱子	Afzel Poisonnut*	T6164 <i>Strychnos afzelii</i>
A FU ZE LI SHAN ZHU ZI	阿夫泽里山竹子*	Afzeli Garcinia*	T2849 <i>Garcinia afzelii</i>
A GEN TING SHANG LU	阿根廷商陆	Ombutree Pokeberry	T4862 <i>Phytolacca dioica</i>
A GEN TING SHU QU CAO	阿根廷鼠曲草	Argentine Cudweed*	T3027 <i>Gnaphalium gaudichaudianum</i>
A GU JI TIAN JIE CAI	阿古济天芥菜	Arguzioid Heliotrope*	T3168 <i>Heliotropium arguzioides</i>
A JIANG LAN REN	阿江榄仁		T6344 <i>Terminalia arjuna</i>
A KA XI A LAN REN	阿卡西阿榄仁	Acacia Terminalia*	T6349 <i>Terminalia stuhlmannii</i>
A LA BO JIAO JIN HE HUAN	阿拉伯胶金合欢	Gum-arabic Tree	T0028 <i>Acacia nilotica</i>
A LA BO JIN HE HUAN	阿拉伯金合欢	Arabian Acacia	T0016 <i>Acacia arabica</i>
A LA BO PO PO NA	阿拉伯婆婆纳	Iran Speedwell	T6727 <i>Veronica persica</i>
A LI HONG	阿里红	Fomes Officinalis Sporocarp	T2749 <i>Fomes officinalis</i>
A LI SHAN WU WEI ZI	阿里山五味子	Taiwan Magnoliavine	T5790 <i>Schisandra arisanensis</i>
A LU HA LIANG JIANG	阿陆哈良姜	Allugha Galangal*	T0352 <i>Alpinia allughas</i>
A LUN DUO QIE	阿伦多茄	Arundo Nightshade*	T5990 <i>Solanum arundo</i>
A MAN SU DAN MO YAO	阿曼苏丹没药	Sultanate-Oman Myrrhree*	T1639 <i>Commiphora wightii</i>
A NUO TI HUA JIAO	阿诺提花椒	Arnotti Pricklyash*	T6865 <i>Zanthoxylum arnottianum</i>
A SHI HAO	阿氏蒿*	Ashurbajev Wormwood*	T0665 <i>Artemisia ashurbajevii</i>
A SU JUE MING	阿苏决明	Absus Senna*	T1228 <i>Cassia absus</i>
A WEI	阿魏	Asafetida Giantfennel Resin	T2695 <i>Ferula assafoetida</i>
A YA PAN ZE LAN	阿亚潘泽兰	Ayapana Eupatorium*	T2552 <i>Eupatorium ayapana</i>
A YU WEI	阿育魏	Ajowan	T6488 <i>Trachyspermum ammi</i>
A YUE HUN ZI	阿月浑子	Common Pistache	T4982 <i>Pistacia vera</i>
AI DA HUANG	矮大黄	Low Rhubarb*	T5471 <i>Rheum nanum</i>
AI JI CHE ZHOU CAO	埃及车轴草	Egyptian Clover*	T6516 <i>Trifolium alexandrinum</i>
AI JI DA CHI JI	埃及大翅蓟	Egyptian Cottonthistle*	T4495 <i>Onopordum alexandrinum</i>
AI JI JIA HU CI	埃及假虎刺	Egyptian Carissa	T1207 <i>Carissa edulis</i>
AI JI QIAN LI GUANG	埃及千里光*	Egyptian Groundsel	T5876 <i>Senecio aegypticus</i>
AI JI SHU WEI CAO	埃及鼠尾草	Egyptian Sage*	T5659 <i>Salvia aegyptiaca</i>
AI JI TIAN JING	埃及田菁	Indian Sesbania	T5926 <i>Sesbania sesban</i>
AI JI ZAI PEI CI TONG	埃及栽培刺桐	Egypt Cultivate Coralbean*	T2469 <i>Erythrina lysistemon</i>
AI JI ZHONG ZHI YUAN WEI	埃及种植鸢尾	Egypt Planted Iris	T3455 <i>Iris carthaliniae</i>
AI JING DOU	矮荆豆	Dwarf Gorse	T6592 <i>Ulex nanus</i>

AI JU	艾菊	Tansy	T1400 <i>Chrysanthemum vulgare</i>
AI LAI MU	矮株木	Dwarf Cornel	T1699 <i>Cornus suecica</i>
AI LI SI DUO KONG JUN	爱丽思多孔菌	Ellisi Porous Agaric*	T5128 <i>Polyporus ellisii</i>
AI MA HUANG	矮麻黄	Small Ephedra	T2373 <i>Ephedra minuta</i>
AI NA XIANG	艾纳香	Balsamiferous Blumea	T0957 <i>Blumea balsamifera</i>
AI QIE	矮茄*	Dwarf Nightshade*	T5997 <i>Solanum demissum</i>
AI SAI E BI YA YU SHAN DOU	埃塞俄比亚羽扇豆	Narrowleaf Lupin*	T3940 <i>Lupinus angustifolius</i>
AI SAI E BI YA ZAO	埃塞俄比亚枣	Ethiopian Jujube*	T6921 <i>Zizyphus abyssinica</i>
AI SHENG BO LAN DI	矮生博兰地*		T0925 <i>Berlandiera pumila</i>
AI SHENG XIONG GUO	矮生熊果*	Low Bearberry*	T0587 <i>Arctostaphylos pumila</i>
AI SHENG YA CONG	矮生鸦葱	Viper's-glass	T5825 <i>Scorzonera humilis</i>
AI SHI BAI MU	艾氏柏木*	Abrams Cypress*	T1894 <i>Cupressus abramsiana</i>
AI SHI TIAN JIE CAI	艾氏天芥菜	Eichwald Heliotrope*	T3170 <i>Heliotropium eichwaldii</i>
AI SI XING CI TONG	爱思形刺桐*	S-shape Coralbean*	T2475 <i>Erythrina sigmoidea</i>
AI TONG ZI	矮桐子	Farges Glorybower*	T1564 <i>Clerodendron trichotomum</i> var. <i>fargesii</i>
AI WA JIN GU CAO	艾娃筋骨草*	Iva Bugle*	T0265 <i>Ajuga iwa</i>
AI XI SHOU SHI LI LU	埃希首氏藜芦	Eschscholtz Falsehellebore*	T6695 <i>Veratrum eschscholtzii</i>
AI XIANG RI KUI	矮向日葵	Dwarf Sunflower*	T3152 <i>Helianthus pumilus</i>
AI YE	艾叶	Argy Wormwood Leaf	T0664 <i>Artemisia argyi</i>
AI YE HUANG QIN	艾叶黄芩	Przewalsk Skullcap	T5842 <i>Scutellaria przewalskii</i>
AI ZI JIN NIU	矮紫金牛	Low Ardisia*	T0597 <i>Ardisia humilis</i>
AN BEI JU	安倍菊	Muricate Amberboa*	T0393 <i>Amberboa muricata</i>
AN CI BAI	岸刺柏	Shore Juniper	T3585 <i>Juniperus conferta</i>
AN GE LA BA JIAO FENG	安哥拉八角枫	Angola Alangium*	T0283 <i>Alangium lamarckii</i>
AN GE LA HUANG GUA	安哥拉黄瓜*	Angola Cucumber*	T1874 <i>Cucumis angolensis</i>
AN GE LA ZI TAN	安哥拉紫檀	Angola Padauk*	T5300 <i>Pterocarpus angolensis</i>
AN GU SI TU LA SHU	安古斯图腊树	Angostura-bark Tree	T2829 <i>Galipea officinalis</i>
AN HONG TUAN WANG JUN	暗红团网菌	Carnival Candy Slime	T0590 <i>Arcyria denudata</i>
AN HONG WEI LING CAI	暗红委陵菜*	Darksanguine Cinquefoil*	T5180 <i>Potentilla atrosanguinea</i>
AN HUANG ZHU SHI DOU	暗黄猪屎豆	Flavescent Crotalaria*	T1820 <i>Crotalaria fulva</i>
AN HUI BEI MU	安徽贝母	Anhui Fritillary	T2781 <i>Fritillaria anhuiensis</i>
AN HUI CONG MU	安徽榧木	Subcapitate Aralia	T0575 <i>Aralia subcapitata</i>
AN HUI YIN LIAN HUA	安徽银莲花*	Anhui Anemone*	T0464 <i>Anemone anhuiensis</i>
AN LU LONG SHE LAN	暗绿龙舌兰	Peyote	T3923 <i>Lophophora williamsii</i>
AN LUO	暗罗	Suberos Greenstar	T5068 <i>Polyalthia suberosa</i>
AN MO LE	庵摩勒	Emblic Leafflower	T4834 <i>Phyllanthus emblica</i>
AN SHI JIN SI TAO	安氏金丝桃	Ancher St.John'swort*	T3337 <i>Hypericum anchorii</i>
AN XI XIANG	安息香	Sumatra Snowbell	T6197 <i>Styrax benzoin</i>
AN YE	桉叶	Eucalyptus Leaf	T2510 <i>Eucalyptus globulus</i>
AN ZI BEI MU	暗紫贝母	Unibract Fritillary	T2796 <i>Fritillaria unibracteata</i>
AN ZI YU PAN	暗紫玉盘	Low Uvaria	T6660 <i>Uvaria chamae</i>
AN ZONG TAN TUAN JUN	暗棕碳团菌*		T3378 <i>Hypoxylon fuscum</i>
AO DA LI YA HONG DOU SHAN	澳大利亚红豆杉	Australia Yew	T0832 <i>Austrotaxus spicata</i>
AO DA LI YA QIAN JIN TENG	澳大利亚千金藤	Australia Stephania*	T6130 <i>Stephania japonica</i> var. <i>australis</i>
AO DA LI YA SANG	澳大利亚桑*	Japanese Mulberry	T4291 <i>Morus australis</i>
AO DA LI YA YAN DIAN	澳大利亚腰漩*		T0868 <i>Baptisia australis</i>
AO DAO LA MU HAI MANG GUO	奥道拉姆海杓果	Odollam Cerberustree*	T1331 <i>Cerbera odollam</i>
AO DI LI LIN MAO JUE	奥地利鳞毛蕨	Broad Buckler-fern	T2277 <i>Dryopteris austriaca</i>
AO ER JIA TIAN JIE CAI	奥尔加天芥菜	Olga Heliotrope*	T3176 <i>Heliotropium olgae</i>
AO LEI TONG QI MU	奥雷同桤木	Oregon Alder	T0329 <i>Alnus oregana</i>
AO LI FO HUANG TAN	奥利佛黄檀*	Oliver Rosewood*	T2009 <i>Dalbergia oliveri</i>
AO LIE GE LONG DAN	奥列格龙胆*	Olga Gentian*	T2923 <i>Gentiana olgae</i>
AO MA JIN QUE HUA	奥马金雀花	Osmarien Broom*	T1990 <i>Cytisus osmariensis</i>

AO MAI DING GONG TENG	凹脉丁公藤	Elliptical Erycibe	T2447 <i>Erycibe elliptilimba</i>
AO PA CAO	奥帕草		T4518 <i>Oppopanax chironium</i>
AO SHE LAN	凹舌兰	Frog Orchid	T1604 <i>Coeloglossum viride</i> [Syn. <i>Coeloglossum viride</i> var. <i>bracteatum</i>]
			T2022 <i>Daniellia oliveri</i>
AO SHI DAN NI SU MU	奥氏丹尼苏木		T3341 <i>Hypericum aucheri</i>
AO SHI JIN SI TAO	奥氏金丝桃*	Aucher St.John'swort*	T2924 <i>Gentiana olivieri</i>
AO SHI LONG DAN	奥氏龙胆*	Olivier Gentian*	T5718 <i>Sapindus emarginatus</i>
AO TOU WU HUAN ZI	凹头无患子*	Emarginate Soapberry Seed	T0388 <i>Amaranthus lividus</i>
AO TOU XIAN	凹头苋	Emarginate Amaranth	T4353 <i>Myristica otoba</i>
AO TUO ROU DOU KOU	奥托肉豆蔻	Otoba Nutmeg*	T1712 <i>Corydalis cava</i>
AO XIAN ZI JIN	凹陷紫堇	Bulbous Corydalis	T4034 <i>Magnolia biloba</i>
AO YE HOU PO	凹叶厚朴	Twolobed Officinal Mangolia	T2030 <i>Daphne retusa</i>
AO YE RUI XIANG	凹叶瑞香	Retuseleaf Daphne	T3927 <i>Lotus australis</i>
AO ZHOU BAI MAI GEN	澳洲百脉根	Austral Bird's Foot Trefoil	T4011 <i>Macadamia ternifolia</i>
AO ZHOU JIAN GUO	澳洲坚果	Queensland Nut	T5991 <i>Solanum aviculare</i> [Syn. <i>Solanum laciniatum</i>]
AO ZHOU QIE	澳洲茄	Australian Nightshade	T4866 <i>Phytolacca octandra</i>
			T1830 <i>Crotalaria retusa</i>
AO ZHOU SHANG LU	澳洲商陆	Octapistil Pokeweed*	T2344 <i>Embelia barbeyana</i>
AO ZHU SHI DOU	凹猪屎豆	Yellow-flowering Pea	T2061 <i>Delphinium barbeyi</i>
BA BEI SUAN TENG ZI	巴贝酸藤子	Barbey Larkspur*	T2223 <i>Diospyros mafiensis</i>
BA BI CUI QUE HUA	巴比翠雀花	Papua-New-Guinea Persimmon*	T5215 <i>Prunus amygdalus</i>
BA BU YA XIN JI NEI YA SHI	巴布亚新几内亚柿	Amygdalate Apricot Seed	T1858 <i>Croton tiglium</i>
BA DAN XING REN	巴旦杏仁	Purging Croton	T2903 <i>Gentiana bavarica</i>
BA DOU	巴豆	Bavarian Gentian	T4283 <i>Morinda officinalis</i>
BA FA LI YA LONG DAN	巴伐利亚龙胆	Medicinal Indianmulberry	T0281 <i>Alangium chinense</i>
BA JI TIAN	巴戟天	Chinese Alangium	T1532 <i>Clausena anisata</i>
BA JIAO FENG	八角枫	Octet Wampee*	T3409 <i>Illicium verum</i>
BA JIAO HUANG PI	八角黄皮	Star Anise	T3394 <i>Ilex paraguariensis</i>
BA JIAO HUI XIANG	八角茴香	Paraguay Tea	T0290 <i>Albizzia adinocephala</i>
BA LA GUI CHA	巴拉圭茶	Panamanian Albizia*	T5410 <i>Randia formosa</i>
BA NA MA HE HUAN	巴拿马合欢	Taiwan Malabar Randia	T5976 <i>Smilax china</i> [Syn. <i>Smilax japonica</i>]
BA NA MA SHAN SHI LIU	巴拿马山石榴*	Chinaroot Greenbrier	T2617 <i>Euphorbia royleana</i>
BA QIA	菝葜	Royle Euphorbia Latex	T2801 <i>Frullania brasiliensis</i>
BA WANG BIAN	霸王鞭	Brazilian Ear-leaf Muscus*	T1125 <i>Calophyllum brasiliense</i>
BA XI ER YE TAI	巴西耳叶苔	Brazilian Calaba	T5422 <i>Rauvolfia bahiensis</i>
BA XI HU TONG	巴西胡桐	Brazilian Devilpepper*	T0622 <i>Aristolochia chamissonis</i>
BA XI LUO FU MU	巴西萝芙木	Brazilian Dutchmanspipe*	T5881 <i>Senecio brasiliensis</i>
BA XI MA DOU LING	巴西马兜铃	Brazilian Groundsel*	T3562 <i>Joannesia princeps</i>
BA XI QIAN LI GUANG	巴西千里光	Brazilian Joan-wood*	T4775 <i>Pfaffia paniculata</i>
BA XI QIAO AN MU	巴西乔安木		T4677 <i>Paullinia cupana</i>
BA XI REN SHEN	巴西人参	Guarana	T0075 <i>Acnistus arborescens</i>
BA XI XIANG WU HUAN ZI	巴西香无患子	Brazilian Wild Tobacco; Marianeira	T2171 <i>Dictyota pfaffii</i>
BA XI YE YAN	巴西野烟	Brazilian Brown Alga <i>Dictyota pfaffii</i>	T2830 <i>Galium aparine</i>
BA XI ZONG ZAO	巴西棕藻*	Catchweed Bedstraw	T3304 <i>Hydrangea macrophylla</i>
BA XIAN CAO	八仙草	Largeleaf Hydrangea	T2301 <i>Dysosma majorensis</i> [Syn. <i>Podophyllum majorensis</i> ; <i>Dysosma lichuanensis</i>]
BA XIAN HUA	八仙花	White Dysosma*	T4080 <i>Mallotus apelta</i>
BAI BA JIAO LIAN	白八角莲		T6115 <i>Stemona tuberosa</i>
			T0142 <i>Acorus calamus</i>
BAI BEI YE	白背叶	Whitebackleaf Mallotus	T4436 <i>Nitraria tangutorum</i>
BAI BU	百部(对叶百部)	Tuber Stemona	
BAI CHANG	白菖	Drug Sweetflag	
BAI CI	白刺	Nitraria*	

BAI CI GUO TUN CAO	白刺果豚草	White Bur Sage	T0401 <i>Ambrosia dumosa</i>
BAI CI HUA	白刺花	Vetchleaf Sophora	T6046 <i>Sophora viciifolia</i>
BAI CI HUA GEN	白刺花根	Vetchleaf Sophora Root	T6047 <i>Sophora viciifolia</i>
BAI CI HUA YE	白刺花叶	Vetchleaf Sophora Leaf	T6048 <i>Sophora viciifolia</i>
BAI CI HUA ZI	白刺花籽	Vetchleaf Sophora Seed	T6049 <i>Sophora viciifolia</i>
BAI DIAN FENG CHE ZI	白点风车子*	White-punctated Combretum*	T1630 <i>Combretum albopunctatum</i>
BAI DOU KOU	白豆蔻	Round Cardamom	T0416 <i>Amomum kravanh</i> [Syn. <i>Amomum cardamomum</i>]
BAI DUAN	白殿	White Linden*	T6456 <i>Tilia alburnum</i>
BAI E GAO	白鹅膏	Goose Fat	T0516 <i>Anser cygnoides domestica</i>
BAI FAN DOU	白饭豆	Kidney Bean	T4785 <i>Phaseolus vulgaris</i>
BAI GOU TENG	白钩藤	White Gambirplant	T6632 <i>Uncaria sessilifructus</i> [Syn. <i>Nauclea sessilifructus</i>]
BAI GUI BI	白鬼笔	Stinking Polecat, Wood Witch	T4778 <i>Phallus impudicus</i>
BAI GUO	白果	Ginkgo Nut	T2961 <i>Ginkgo biloba</i>
BAI GUO GEN	白果根	Ginkgo Root	T2962 <i>Ginkgo biloba</i>
BAI GUO SHU PI	白果树皮	Ginkgo Bark	T2963 <i>Ginkgo biloba</i>
BAI GUO YE	白果叶(银杏叶)	Ginkgo Leaf	T2964 <i>Ginkgo biloba</i>
BAI GUO ZI CAO	白果紫草	Common Gromwell	T3882 <i>Lithospermum officinale</i>
BAI HAO	白蒿	Sievers Wormwood	T0696 <i>Artemisia sieversiana</i>
BAI HE	百合	Greenish Lily	T3832 <i>Lilium brownii</i> var. <i>viridulum</i> [Syn. <i>Lilium brownii</i> var. <i>colchesteri</i>]
BAI HE LING ZHI	白鹤灵芝	Bignose Rhiancanthus	T5483 <i>Rhinacanthus nasutus</i>
BAI HOU WU TOU	白喉乌头	Whitethroat Monkshood	T0111 <i>Aconitum leucostomum</i>
BAI HUA CAI ZI	白花菜籽	Common Spiderflower Seed	T1550 <i>Cleome gynandra</i> [Syn. <i>Gynandropsis gynandra</i>]
BAI HUA DAN	白花丹	Whiteflower Leadword	T5029 <i>Plumbago zeylanica</i>
BAI HUA DAN SHEN	白花丹参	Whiteflower Danshen	T5681 <i>Salvia miltiorrhiza</i> f. <i>alba</i>
BAI HUA FENG DOU CAI	白花蜂斗菜	White-flowerButterbur*	T4738 <i>Petasites albus</i>
BAI HUA JUE CHUANG	白花爵床	Whiteflower Rostellularia	T3609 <i>Justicia procumbens</i> var. <i>leucantha</i>
BAI HUA LONG DAN	白花龙胆	Alpine Gentian	T2902 <i>Gentiana algida</i>
BAI HUA QIAN HU	白花前胡	Whiteflower Hogfennel	T4768 <i>Peucedanum praeruptorum</i>
BAI HUA SHE GAN	白花射干	Vesper Iris	T3457 <i>Iris dichotoma</i>
BAI HUA SHE SHE CAO	白花蛇舌草	Spreading Hedyitis	T4485 <i>Oldenlandia diffusa</i> [Syn. <i>Hedyotis diffusa</i>]
BAI HUA TENG	白花藤	Threeflower Clematis	T1547 <i>Clematis terniflora</i> [Syn. <i>Clematis maximowicziana</i>]
BAI HUA XIA ZHI CAO	白花夏至草	Whiteflower Lagopsis	T4112 <i>Marrubium supinum</i> [Syn. <i>Lagopsis supina</i>]
BAI HUA YING SHAN HONG	白花映山红	Snow Azalea	T5518 <i>Rhododendron mucronatum</i>
BAI HUA YING SU	白花罂粟	White Poppy*	T4620 <i>Papaver album</i>
BAI HUA YOU MA TENG	白花油麻藤	Whiteflower Mucuna	T4308 <i>Mucuna birdwoodiana</i>
BAI JI	白芨	Common Bletilla	T0955 <i>Bletilla striata</i>
BAI JIAN MU	白坚木	Campus-belu Aspidosperma	T0761 <i>Aspidosperma campus-belus</i>
BAI JIANG	败酱(白花败酱)	Whiteflower Patrinia	T4676 <i>Patrinia villosa</i>
BAI JIANG CAN	白僵蚕	Silkworm Larva	T0975 <i>Bombyx mori</i>
BAI JIANG JUN	白僵菌		T0887 <i>Beauveria bassiana</i>
BAI JIE ZI	白芥子	White Mustard Seed	T5958 <i>Sinapis alba</i> [Syn. <i>Brassica alba</i> ; <i>Brassica hirta</i>]
BAI LA SHU	白蜡树	Chinese Ash Bark	T2767 <i>Fraxinus chinensis</i>
BAI LAI SHI JU	白菜氏菊	Bailai's Chrysanthemum	T0854 <i>Baileya multiradiata</i>
BAI LAN HUA	白兰花	Bailan Flower	T4209 <i>Michelia alba</i>
BAI LI LU	白藜芦	White Falsehellebore	T6692 <i>Veratrum album</i>

BAI LI XIANG	百里香	Breckland Thyme	T6452 <i>Thymus serpyllum</i>
BAI LI XIANG YE CHUN XIN LIAN	百里香叶穿心莲*	Andrographis*	T0459 <i>Andrographis serpyllifolia</i>
BAI LI XIANG YE MA SANG	百里香叶马桑	Thymeleaf Coriaria*	T1695 <i>Coriaria thymifolia</i>
BAI LIAN	白蔹	Japanese Ampelopsis	T0427 <i>Ampelopsis japonica</i> [Syn. <i>Paullinia japonica</i>]
BAI LIANG JIN	百两金	Crispateleaf Ardisia	T0595 <i>Ardisia crispa</i>
BAI MAO GEN ⁽¹⁾	白茅根	Lalang Grass Rhizome	T3416 <i>Imperata cylindrica</i> var. <i>major</i>
BAI MAO GEN ⁽⁴⁾	白毛茛	Golden-seal	T3309 <i>Hydrastis canadensis</i>
BAI MAO TENG	白毛藤	Bittersweet	T6005 <i>Solanum lyratum</i>
BAI MAO XIA KU CAO	白毛夏枯草	Decumbent Bugle	T0263 <i>Ajuga decumbens</i>
BAI MAO ZI ZHU	白毛紫珠	Whitehairy Beautyberry	T1117 <i>Callicarpa candicans</i>
BAI MEI HUA	白梅花	Japanese Apricot Flower	T5226 <i>Prunus mume</i>
BAI MU TONG	白木通	Austral Akebia	T0279 <i>Akebia trifoliata</i> var. <i>australis</i>
BAI MU TONG GEN	白木通根	Austral Akebia Root	T0280 <i>Akebia trifoliata</i> var. <i>australis</i>
BAI MU WU JIU	白木乌柏	Japanese Sapium	T5722 <i>Sapium japonicum</i>
BAI MU XIANG	白木香	Chinese Eaglewood	T0555 <i>Aquilaria sinensis</i>
BAI NIU XI	白牛膝	Berry-bearing Campion	T1871 <i>Cucubalus baccifer</i>
BAI PI SONG	白皮松	Lacebark Pine	T4908 <i>Pinus bungeana</i>
BAI QIAN CENG	白千层	Cajeput-tree	T4154 <i>Melaleuca leucadendra</i>
BAI QU CAI	白屈菜	Greater Celandine	T1357 <i>Chelidonium majus</i>
BAI RI CAO	百日草	Youth-and-old-age	T6912 <i>Zinnia elegans</i>
BAI RI QING	百日青	Thitmin	T5048 <i>Podocarpus neriifolius</i>
BAI ROU MAO XIANG CHA CAI	白柔毛香茶菜	Whitepilose Rabdosia	T3478 <i>Isodon albopilosus</i>
BAI RUI CAO	百蕊草	Chinese Bastardtoadflax	T6431 <i>Thesium chinense</i>
BAI SAN MO HUA	白散沫花*	White Henna*	T3731 <i>Lawsonia alba</i>
BAI SE BAI XIAN	白色白鲜*	Burning Bush	T2164 <i>Dictamnus albus</i>
BAI SHAO	白芍	Common Peony	T4580 <i>Paeonia albiflora</i> [Syn. <i>Paeonia lactiflora</i>]
BAI SHOU SHEN	白手参*	European Gymnadenia	T3076 <i>Gymnadenia albida</i>
BAI SHOU WU	白首乌	Bunge Swallowwort	T1953 <i>Cynanchum bungei</i>
BAI SHU LANG	白薯茛	Hispid Yam	T2200 <i>Dioscorea hispida</i>
BAI SHU YE	柏树叶	Chinese Weeping Cypress Leaf	T1896 <i>Cupressus funebris</i>
BAI SHUI XIAN	白水仙	Paper-white Narcissus	T4377 <i>Narcissus papyraceus</i>
BAI SU YE	白苏叶	Common Perilla Leaf	T4714 <i>Perilla frutescens</i>
BAI SU ZI	白苏子	Common Perilla Fruit	T4715 <i>Perilla frutescens</i>
BAI SUI YE	百岁叶	Longlived Leaf	T6816 <i>Welwitschia mirabilis</i>
BAI TA GE	白塔蛤		T5772 <i>Saxidomus giganteus</i>
BAI TOU WENG	白头翁	Chinese Pulsatilla	T5325 <i>Pulsatilla chinensis</i>
BAI WEI	白薇	Blackend Swallowwort	T1951 <i>Cynanchum atratum</i>
BAI XIAN PI	白鲜皮	Densefruit Pittany Root-bark	T2167 <i>Dictamnus dasycarpus</i>
BAI XIAN SHU	白线薯	Shortstamen Stephania*	T6118 <i>Stephania brachyandra</i>
BAI XIANG CAO MU XI	白香草木犀	White Sweetclover	T4170 <i>Melilotus albus</i>
BAI XIE GEN	白泻根	White Bryony	T1042 <i>Bryonia alba</i>
BAI XUE GUO MU	白雪果木		T1367 <i>Chiococca alba</i>
BAI YA MA	白亚麻	White Flax	T3858 <i>Linum album</i>
BAI YAN TENG	百眼藤	Littleleaf Indianmulberry	T4284 <i>Morinda parvifolia</i>
BAI YAO ZI	白药子	Oriental Stephania	T6119 <i>Stephania cepharantha</i>
BAI YE GUA FU MU	白叶瓜馥木	Glaucous Fissistigma	T2734 <i>Fissistigma glaucescens</i> [Syn. <i>Melodorum glaucescens</i>]
BAI YE JING JIE	白叶荆芥	Whiteleaf Nepeta	T4416 <i>Nepeta leucophylla</i>
BAI YE MI ZI LAN	白叶米仔兰	Whiteleaf Aglaia*	T0239 <i>Aglaia leucophylla</i>
BAI YE TENG	白叶藤	Chinese Cryptolepis	T1866 <i>Cryptolepis sinensis</i>
BAI YE XIANG CHA CAI	白叶香茶菜	Whiteleaf Rabdosia*	T3503 <i>Isodon leucophyllus</i>

BAI YOU	白柚	White Pummelo*	T1482 <i>Citrus grandis</i> f. <i>hakunikuju</i>
BAI YU SHAN DOU	白羽扇豆	White Lupin	T3939 <i>Lupinus albus</i>
BAI YUN HUA	白云花	White Cowparsnip*	T3221 <i>Heracleum rapula</i>
BAI ZHI	白芷	Dahurian Angelica	T0478 <i>Angelica dahurica</i> [Syn. <i>Angelica porphyrocaulis</i>]
BAI ZHI MA	白芝麻	Oriental Sesame (white seed)	T5925 <i>Sesamum indicum</i> [Syn. <i>Sesamum orientale</i>]
BAI ZHU	白术	Largehead Atractylodes	T0824 <i>Atractylodes macrocephala</i> [Syn. <i>Atractylis macrocephala</i>]
BAI ZHU SHU	白珠树	Common Gaultheria	T2893 <i>Gaultheria leucocarpa</i> var. <i>cumingiana</i>
BAI ZI REN	柏子仁	Chinese Arborvitae Kernel*	T0944 <i>Biota orientalis</i> [Syn. <i>Thuja orientalis</i> ; <i>Platycladus orientalis</i>]
BAN BIAN LIAN	半边莲	Chinese Lobelia	T3898 <i>Lobelia chinensis</i> [Syn. <i>Lobelia radicans</i>]
BAN BIAN LIAN ZHUANG LI LU	半边莲状藜芦	Lobelia Falsehellebore*	T6693 <i>Veratrum album</i> var. <i>lobelianum</i> [Syn. <i>Veratrum lobelianum</i>]
BAN BIAN SU	半边苏	Common Elsholtzia	T2341 <i>Elsholtzia ciliata</i>
BAN DI JIN	斑地锦	American Euphorbia	T2600 <i>Euphorbia maculata</i>
BAN DIAN XIAO QIU QIANG JUN	斑点小球腔菌*		T3768 <i>Leptosphaeria maculans</i>
BAN GUAN MU MU JU	半灌木母菊	Semi-frutex Mayweed*	T4125 <i>Matricaria suffruticosa</i>
BAN HUA WU TOU	斑花乌头	Manchurian Monkshood	T0139 <i>Aconitum variegatum</i>
BAN JIU	斑鸠	Rufous Turtle Dove	T6150 <i>Streptopelia orientalis</i>
BAN JIU JU	斑鸠菊	Edible Bitterleaf	T6716 <i>Vernonia esculenta</i>
BAN JU CHI ZHUANG ZE LAN	半锯齿状泽兰	Semiserration Eupatorium*	T2574 <i>Eupatorium semiserratum</i>
BAN KE HU JIAO	斑克胡椒	Bank Pepper*	T4935 <i>Piper banksii</i>
BAN LAN GEN	板蓝根	Indigowoad Root	T3475 <i>Isatis indigotica</i>
BAN LI	板栗	Chinese Chestnut	T1254 <i>Castanea mollissima</i>
BAN MAO	斑蝥	Blister Beetle	T4338 <i>Mylabris phalerata</i> ; <i>Mylabris cichorii</i>
BAN PI AN	半皮桉	Hemihull Eucalyptus*	T2512 <i>Eucalyptus hemiphloia</i>
BAN RUI TANG SONG CAO	瓣蕊唐松草	Petalformed Meadowrue	T6403 <i>Thalictrum petaloideum</i>
BAN WEN AN	斑纹桉*	Spotted Gum	T2514 <i>Eucalyptus maculata</i>
BAN WEN LU HUI	斑纹芦荟	Chinese Aloe Dried Juice	T0348 <i>Aloe vera</i> var. <i>chinensis</i>
BAN XIA	半夏	Ternate Pinellia	T4904 <i>Pinellia ternata</i>
BAN YE DI JIN	斑叶地锦	Spottedleaf Euphorbia	T2622 <i>Euphorbia supina</i>
BAN YE PING PENG CAO	斑叶萍蓬草	Variiegated Cowwily	T4451 <i>Nuphar variegatum</i>
BAN YUAN	斑蟊	Mudpuppy	T4395 <i>Necturus maculosus</i>
BAN YUE XING TIE XIAN JUE	半月形铁线蕨	Philippine Maidenhair*	T0173 <i>Adiantum lunulatum</i>
BAN ZHEN ZHONG HUA SHU	斑疹钟花树		T6270 <i>Tabebuia impetiginosa</i>
BAN ZHI LIAN	半枝莲	Barbed Skullcap	T5835 <i>Scutellaria barbata</i> [Syn. <i>Scutellaria rivularis</i>]
BAN ZI MA HUANG	斑孑麻黄	Scalyseed Ephedra	T2371 <i>Ephedra lepidosperma</i>
BAN ZI MU	斑籽木	Montane Baliospermum	T0861 <i>Baliospermum montanum</i>
BANG BING BEI SAN	棒柄杯伞	Ffat-footed Clitocybe	T1576 <i>Clitocybe clavipes</i>
BANG YE JUE ZAO	棒叶蕨藻	Howe	T1272 <i>Caulerpa sertularioides</i>
BANG ZHUANG ZI JIN	棒状紫堇	Climbing Corydalis	T1714 <i>Corydalis claviculata</i>
BAO BAN E GAO	豹斑鹅膏	Leopard Leather Mushroom*; Tengutake (in Japanese)	T0384 <i>Amanita pantherina</i>
BAO CHUN HUA	报春花	Fairy Primrose	T5199 <i>Primula malacoides</i>
BAO CHUN SHI HU	报春石斛	Primrose Denrdobium	T2109 <i>Dendrobium primulinum</i>
BAO E ZHANG YA CAI	苞萼獐牙菜	Calycin Swertia	T6213 <i>Swertia calycina</i>
BAO GAI CAO	宝盖草	Henbit Deadnettle	T3680 <i>Lamium amplexicaule</i>
BAO GAI LING ZHI	宝盖灵芝	Cape Ganoderma	T2845 <i>Ganoderma capense</i>

BAO JING KU MAI CAI	抱茎苦苣菜	Sowthistle-leaf <i>Ixeris</i>	T3548 <i>Ixeris sonchifolia</i>
BAO JING TIAN JIE CAI	抱茎天芥菜*	Clasping Heliotrope	T3167 <i>Heliotropium amplexicaule</i>
BAO JING ZHANG YA CAI	抱茎獐牙菜	Amplexicaul Swertia	T6221 <i>Swertia franchetiana</i>
BAO MA ZI	暴马子	Amur Lilac	T6259 <i>Syringa amurensis</i> [Syn. <i>Syringa reticulata</i> var. <i>amurensis</i>]
BAO MO HUI MAO DOU	包膜灰毛豆*	Tunicate Tephrosia*	T6342 <i>Tephrosia tunicata</i>
BAO PI GU	豹皮菇	Pardleather-like Mushroom	T3743 <i>Lentinus lepideus</i>
BAO PIAN SHI CHE JU	苞片矢车菊*	Bracteole Centaurea*	T1304 <i>Centaurea bracteata</i>
BAO PIAN SHU WEI CAO	苞片鼠尾草		T5662 <i>Salvia bracteata</i>
BAO PIAN TU LA SHU	苞片图腊树	Bracteole Galipea*	T2827 <i>Galipea bracteata</i>
BAO RUI SHAN YOU GAN	包瑞山油柑	Bauer Acronychia	T0148 <i>Acronychia baueri</i>
BAO SHAN WU TOU	保山乌头	Paoshan Monkshood	T0080 <i>Aconitum bullatifolium</i> var. <i>homotrichum</i> [Syn. <i>Aconitum nagarum</i>]
BAO SHAN YOU GAN	包山油柑	Vested Acronychia*	T0153 <i>Acronychia vestita</i>
BAO SHI FEI YAN CAO	包氏飞燕草	Brown Larkspur*	T2063 <i>Delphinium brownii</i>
BAO XING WEI MAO	宝兴卫矛	Paohsing Euonymus	T2543 <i>Euonymus mupinensis</i>
BAO YE XIANG CHA CAI	苞叶香茶菜	Bractleaf Rabdosia	T3515 <i>Isodon melissoides</i>
BAO ZI GAN LAN	抱子甘蓝	Brussels Sprout	T1018 <i>Brassica oleracea</i> var. <i>gemmifera</i>
BEI AI	北艾	Mugwort	T0706 <i>Artemisia vulgaris</i>
BEI CANG ZHU	北苍术	Chinese Atractylodes	T0819 <i>Atractylodes chinensis</i>
BEI CE JIN ZHAN HUA	北侧金盏花	Siberian Adonis	T0188 <i>Adonis sibirica</i>
BEI FANG DANG GUI	北方当归*	Northern Angelica*	T0499 <i>Angelica ursina</i>
BEI FANG GOU QI GEN PI	北方枸杞根皮	Northern Wolfberry Root-bark*	T3959 <i>Lycium chinense</i> var. <i>potaninii</i>
BEI FANG WU TOU	北方乌头	Northern Monkshood*	T0129 <i>Aconitum septentrionale</i>
BEI FEI XUE SONG	北非雪松	Atlas Cedar	T1281 <i>Cedrus atlantica</i>
BEI FEN NAI AO LE MU	被粉奈奥勒姆		T1579 <i>Cneorum pulverulentum</i>
BEI HAI DANG GUI	北海当归	Northsea Angelica*	T0475 <i>Angelica acutiloba</i> var. <i>sugiyamae</i>
BEI HAI XIAN TAI CHONG	北海鲜苔虫	North Sea Bryozoon	T2742 <i>Flustra foliacea</i>
BEI HUANG HUA CAI	北黄花菜	Yellow Daylily	T3195 <i>Hemerocallis lilio-asphodelus</i>
BEI JIA ER TANG SONG CAO	贝加尔唐松草	Baikal Meadowrue	T6375 <i>Thalictrum baicalense</i>
BEI JING SHI WEI	北京石韦	Peking Pyrrosia Frond	T5354 <i>Pyrrosia davidii</i>
BEI JING YANG	北京杨	Beijing Poplar	T5148 <i>Populus beijingsensis</i>
BEI KE SHAN	贝壳杉	Amboina Pitch Tree	T0213 <i>Agathis dammara</i>
BEI LI LU HUI	贝利芦荟*	Bally Aloe*	T0335 <i>Aloe ballyi</i>
BEI MA DOU LING	北马兜铃	Northern Dutchmanspipe	T0624 <i>Aristolochia contorta</i>
BEI MA DOU LING GEN	北马兜铃根	Northern Dutchmanspipe Root	T0625 <i>Aristolochia contorta</i>
BEI MEI AI HAO	北美矮蒿	Low Sagebrush	T0663 <i>Artemisia arbuscula</i>
BEI MEI E ZHANG QIU	北美鹅掌楸	Yellow Poplar	T3871 <i>Liriodendron tulipifera</i>
BEI MEI HONG SHAN	北美红杉	Redwood	T5918 <i>Sequoia sempervirens</i>
BEI MEI QIU ZI JUE	北美球子蕨	Bead Fern, Sensitive Fern	T4492 <i>Onoclea sensibilis</i>
BEI MEI TING LI ZI	北美葶苈子	Virginia Pepperweed Seed	T3759 <i>Lepidium virginicum</i>
BEI MEI XIANG BAI	北美香柏	Western Arborvitae	T6441 <i>Thuja plicata</i>
BEI MEI YA BAI	北美崖柏	Eastern Arborvitae	T6438 <i>Thuja occidentalis</i>
BEI MEI YUAN BAI	北美圆柏	Red Cedar	T3603 <i>Juniperus virginiana</i>
BEI MEI ZHOU SHAN GENG CAI	北美洲山梗菜	Indian Tobacco	T3900 <i>Lobelia inflata</i>
BEI MU LAN	贝母兰	Common Coelogyne	T1606 <i>Coelogyne ovalis</i>
BEI QIAO SHI HU	杯鞘石斛	Muchlovable Denrdobium	T2104 <i>Dendrobium gratiosissimum</i>
BEI SHA SHEN	北沙参	Coastal Glehnia	T2983 <i>Glehnia littoralis</i>
BEI SHI SHAN CHENG	贝氏山橙*	Balansa Melodinus*	T4176 <i>Melodinus balansae</i>
BEI SHUI KU MAI	北水苦苣	Watery Speedwell	T6722 <i>Veronica anagallis-aquatica</i>
BEI WU TOU	北乌头(草乌)	Kusnezoff Monkshood	T0108 <i>Aconitum kusnezoffii</i>
BEI XUAN SHEN	北玄参	Buerger Figwort	T5826 <i>Scrophularia buergeriana</i>
BEI YE JU	北野菊	Boreal Wild Chrysanthemum	T1387 <i>Chrysanthemum boreale</i>

BEI YUE GOU TENG	北越钩藤	North Viet-Nam Gambirplant	T6618 <i>Uncaria homomalla</i> [Syn. <i>Uruparia homomalla</i> ; <i>Uruparia tonkinensis</i> ; <i>Uruparia lanosa</i> var. <i>parvifora</i>]
BEI ZI JIN	北紫堇	Siberian Corydalis	T1742 <i>Corydalis sibirica</i>
BENG GE YUAN WEI	崩格鸢尾*	Bunge Iris*	T3454 <i>Iris bungei</i>
BI BA	荜茇	Long Pepper	T4953 <i>Piper longum</i>
BI BA GEN	荜茇根	Long Pepper Root	T4954 <i>Piper longum</i>
BI CHENG QIE	荜澄茄	Cubeba Pepper	T4944 <i>Piper cubeba</i>
BI CHI YAN ZI CAI	蓖齿眼子菜	Fennelleaf Pondweed	T5177 <i>Potamogeton pectinatus</i>
BI CHUAN JIU JIE MU	比川九节木		T5274 <i>Psychotria beccaroides</i>
BI DONG QIE	碧冬茄	Common Petunia	T4751 <i>Petunia hybrida</i>
BI LI	薜荔	Climbing Fig	T2723 <i>Ficus pumila</i>
BI LIN BA JIAO LIAN	毗鳞八角莲	Furfuraceous Many-flowered May-apple*	T2299 <i>Dyosma furfuracea</i>
BI LU GOU TENG	秘鲁钩藤*	Uña de Gato (Cat's Claw)	T6637 <i>Uncaria tomentosa</i>
BI LU GU KE	秘魯古柯	Peru Coca Shrub	T2492 <i>Erythroxylum novogranatense</i>
BI LU MIAN ZAO ER	秘魯绵枣儿	Peru Squill*	T5812 <i>Scilla peruviana</i>
BI LU XIANG JIAO	秘魯香胶	Peru Balmtree Resin	T4358 <i>Myroxylon pereirae</i>
BI LU ZHI XIAO BO	俾路支小檗	Baluchistan Barberry	T0898 <i>Berberis baluchistanica</i>
BI MA GEN	蓖麻根	Castorbean Root	T5547 <i>Ricinus communis</i>
BI MA YE	蓖麻叶	Castorbean Leaf	T5548 <i>Ricinus communis</i>
BI MA YOU	蓖麻油	Castorbean Oil	T5549 <i>Ricinus communis</i>
BI MA ZI	蓖麻子	Castorbean Seed	T5550 <i>Ricinus communis</i>
BI SHENG LI	壁生藜*	Mural Goosefoot*	T1364 <i>Chenopodium murale</i>
BI SHI DUI XIN JU	比氏堆心菊*	Bigelov Sneezeweed*	T3136 <i>Helenium bigelovii</i>
BI SHI LUO FU MU	比氏萝芙木*	Beddome Devilpepper	T5429 <i>Rauwolfia beddomei</i>
BI XIE	草薺粉草薺)	Hypoglauous Collett Yam	T2201 <i>Dioscorea hypoglauca</i> [Syn. <i>Dioscorea colletii</i> var. <i>hypoglauca</i>]
BI ZHI TANG SONG CAO	笔直唐松草*	Strict Meadowrue*	T6413 <i>Thalictrum strictum</i>
BI ZI CU FEI	篦子粗榧	Oliver Plumyew	T1322 <i>Cephalotaxus oliveri</i>
BIAN BAI MA LI JIN	变白马利筋	White Milkweed	T0735 <i>Asclepias albicans</i>
BIAN BAO LIN MAO JUE	边孢鳞毛蕨	Evergreen Wood Fern	T2283 <i>Dryopteris marginalis</i>
BIAN BING HUANG JIN	扁柄黄堇	Flatstiped Corydalis	T1727 <i>Corydalis mucronifera</i>
BIAN DA XIU QIU	鞭打绣球	Diversifolious Hemiphragma	T3201 <i>Hemiphragma heterophyllum</i>
BIAN DI JIN	遍地金	Wight's St.John'swort	T3368 <i>Hypericum wightianum</i>
BIAN DOU	扁豆	Hyacinth Dolichos Seed	T2246 <i>Dolichos lablab</i>
BIAN DOU	扁豆	Niger Bean*	T3647 <i>Lablab niger</i>
BIAN DOU CAI YE BAI JIANG	变豆菜叶败酱*	Korea Patrinia*	T4671 <i>Patrinia saniculaefolia</i>
BIAN FU GE	蝙蝠葛	Asiatic Moonseed	T4182 <i>Menispermum dauricum</i>
BIAN FU GE GEN	蝙蝠葛根	Asiatic Moonseed Root	T4183 <i>Menispermum dauricum</i>
BIAN GUO JIAO GU LAN	扁果绞股蓝	Flatfruit Gynostemma	T3083 <i>Gynostemma compressum</i>
BIAN JIA SHAN LI DOU	扁荚山豇豆	Dwarf Chickling Pea	T3703 <i>Lathyrus cicera</i>
BIAN JING HUANG QI	扁茎黄芪	Flatstem Milkvetch	T0793 <i>Astragalus complanatus</i>
BIAN JING YAN JIE CAO	扁茎沿阶草	Flatstem Lilyturf*	T4508 <i>Ophiopogon planiscapus</i>
BIAN PING JU	扁平桔	Depressed Orange	T1475 <i>Citrus depressa</i>
BIAN SE HE KE BAO	变色裸壳孢*		T2354 <i>Emericella varicolor</i>
BIAN SE MA DOU LING	变色马兜铃	Versicolorous Dutchmanspipe	T0643 <i>Aristolochia versicolor</i>
BIAN SE SHI ZHU	变色石竹	Versicolorous Pink	T2147 <i>Dianthus versicolor</i>
BIAN SHUO TENG	扁蒴藤	Indian Pristimera	T5208 <i>Pristimera indica</i>
BIAN TAI	鞭苔	Flagelliform Liverwort*	T0885 <i>Bazzania trilobata</i>
BIAN TAO	扁桃	Peachform Mango	T4103 <i>Mangifera persiciformis</i>
BIAN TAO ZHUANG BAN JIU JU	扁桃状斑鸠菊	Bitterleaf	T6712 <i>Vernonia amygdalina</i>
BIAN XING MU LAN	变形木兰*	Mutable Magnolia*	T4043 <i>Magnolia mutabilis</i>

BIAN XU	篇蓄	Common Knotgrass	T5098 <i>Polygonum aviculare</i>
BIAN YE TIE XIAN JUE	鞭叶铁线蕨	Walking Maidenhair	T0172 <i>Adiantum caudatum</i>
BIAN YI FENG WEI JUE	变异凤尾蕨	Unequal Brake	T5291 <i>Pteris inaequalis</i>
BIAN YUAN BIAN E TAI	边缘扁萁苔*		T5403 <i>Radula marginata</i>
BIAN YUAN LIN GAI JUE	边缘鳞盖蕨	Marginate Microlepia	T4219 <i>Microlepia marginata</i>
BIAN YUAN LIN MAO JUE	边缘鳞毛蕨	Marginated Buckler-fern*	T2284 <i>Dryopteris marginata</i>
BIAN ZHI HU JI SHENG	扁枝槲寄生	Flatshort Mistletoe	T6773 <i>Viscum articulatum</i>
BIAN ZHONG CHANG YE AN LUO	变种长叶暗罗	Indian Greenstar Variety*	T5066 <i>Polyalthia longifolia</i> var. <i>pendula</i>
BIAN ZHONG JIAN HUAI TENG	变种尖槐藤*	Edible Oxystelma Variety*	T4566 <i>Oxystelma esculentum</i> var. <i>alpini</i>
BIAN ZHU TANG SONG CAO	鞭柱唐松草	Smith Meadowrue	T6410 <i>Thalictrum smithii</i>
BIN HAI DANG GUI	滨海当归	Seashore Angelica*	T0486 <i>Angelica keiskei</i>
BIN HAI QIAN HU	滨海前胡	Japan Hogfennel	T4760 <i>Peucedanum japonicum</i>
BIN HAO	滨蒿	Santonica	T0683 <i>Artemisia maritima</i>
BIN MU JING	滨牡荆	Littoral Chastetree*	T6784 <i>Vitex littoralis</i>
BIN XI FA NI YA CANG ER	宾夕法尼亚苍耳*	Pennsylvanian Cocklebur*	T6841 <i>Xanthium pennsylvanicum</i>
BING CHI XIAN	并齿蕨		T6358 <i>Tetraplodon mnioides</i> [Syn. <i>Tetraplodon bryoides</i> ; <i>Splachnum mnioides</i>]
BING DAO YI	冰岛衣	Iceland Moss	T1341 <i>Cetraria islandica</i>
BING DOU	兵豆	Common Lentil	T3741 <i>Lens culinaris</i>
BING GUO HU JI SHENG	柄果槲寄生	Stipefruit Mistletoe	T6777 <i>Viscum multinerve</i>
BING GUO HUA JIAO	柄果花椒	Stalkedfruit Pricklyash	T6889 <i>Zanthoxylum podocarpum</i>
BING GUO TANG SONG CAO	柄果唐松草	Stalkedfruit Meadowrue*	T6404 <i>Thalictrum podocarpum</i>
BING HUA JU	柄花菊		T5035 <i>Podanthus ovatifolius</i>
BING LANG	槟榔	Betenutpalm	T0606 <i>Areca catechu</i>
BING PIAN	冰片	Borneol	T2274 <i>Dryobalanops aromatica</i>
BING SHE CHUANG	滨蛇床	Japanese Cnidium	T1581 <i>Cnidium japonicum</i>
BING TOU CAO	并头草	Galericulate Skullcap	T5838 <i>Scutellaria galericulata</i>
BING TOU HUANG QIN	并头黄芩	Twinflower Skullcap	T5844 <i>Scutellaria scordifolia</i>
BING YE SUO LUO	柄叶桫欏*		T6856 <i>Yathea podophylla</i>
BO AI DA JI	孛艾大戟	Petty Euphorbia	T2609 <i>Euphorbia peplus</i>
BO BAN HE YE TAI	波瓣合叶苔		T5779 <i>Scapania undulata</i>
BO CAI	菠菜	Spinish	T6076 <i>Spinacia oleracea</i>
BO GE BAN JIU JU	波戈斑鸠菊	Manysperma Bitterleaf*	T6720 <i>Vernonia pogosperma</i>
BO HE	薄荷	Wild Mint	T4184 <i>Mentha haplocalyx</i> [Syn. <i>Mentha canadaensis</i> ; <i>Mentha arvensis</i> var. <i>haplocalyx</i> ; <i>Mentha arvensis</i>]
BO LE SHU	伯乐树	Chinese Bretschneidera	T1025 <i>Bretschneidera sinensis</i>
BO LI ZI HUA JIAO	伯利兹花椒	Beliz Pricklyash*	T6867 <i>Zanthoxylum belizense</i>
BO LIN JU	薄鳞菊	Intermediate Chartolepis	T1354 <i>Chartolepis intermedia</i>
BO LU DU SHU	博路都树	Boldo	T4774 <i>Peumus boldus</i>
BO LUN LIN HUA RUAN SHAN HU	波伦鳞花软珊瑚	Softcoral <i>Lemnalia bournei</i>	T3740 <i>Lemnalia bournei</i>
BO LUO HUI	博落回	Pink Plumepoppy	T4020 <i>Macleaya cordata</i>
BO LUO MI	波罗蜜	Diversileaf Artocarpus	T0713 <i>Artocarpus heterophyllus</i>
BO LUO XIANG TENG	波罗香藤		T3611 <i>Kadsura ananosma</i>
BO NIANG HAO	播娘蒿	Flixweed Tansymustard Seed	T2125 <i>Descurainia sophia</i>
BO PI HUANG GUA	薄皮黄瓜*	Leptopeel Cucumber*	T1875 <i>Cucumis leptodermis</i>
BO SHI AN	伯氏桉*	Berghe Eucalyptus*	T2501 <i>Eucalyptus berghei</i>
BO SHI CI TONG	伯氏刺桐*	Bertero Coralbean*	T2460 <i>Erythrina berteroaana</i>
BO SHI QIAN HU	博氏前胡*	Bourgae Hogfennel*	T4754 <i>Peucedanum bourgaei</i>
BO SHI QIE	博氏茄*	Berthault Nightshade*	T5992 <i>Solanum berthaultii</i>
BO SHI WU TAN	波氏乌檀	pobequini Fatheadtree*	T4393 <i>Nauclea pobequini</i>
BO SHI WU ZHU YU	波氏吴茱萸	Guizhou Evodia	T2645 <i>Evodia rutaecarpa</i> var. <i>bodinieri</i>

BO SI A WEI BIAN ZHONG	波斯阿魏变种*	Persia Giantfennel Variety*	T2704 <i>Ferula persica</i> var. <i>latisecta</i>
BO SI YI MU CAO	波斯益母草*	Persia Motherwort*	T3753 <i>Leonurus persicus</i>
BO SI YING SU	波斯罌粟	Persia Poppy	T4633 <i>Papaver persicum</i>
BO TE LAN DA JI	波特兰大戟*	Portlan Euphorbia*	T2611 <i>Euphorbia portlandica</i>
BO XI SHU LI	波希鼠李*	Cascara Buckthorn	T5463 <i>Rhamnus purshiana</i>
BO YE KU MU	波叶苦木	Undulate-leaf Quassia-wood*	T3098 <i>Hannoa undulata</i>
BO YE SHAN CHENG	薄叶山橙	Thin-leaf Melodinus	T4179 <i>Melodinus tenuicaudatus</i>
BO YE WANG YI ZAO	薄叶网膜藻		T3310 <i>Hydroclathrus tenuis</i>
BO YE WU TOU	薄叶乌头	Azure Monkshood	T0095 <i>Aconitum fischeri</i>
BU CHANG NAN MEI DENG MU	布昌南美登木	Buchanan Mayten	T4128 <i>Maytenus buchananii</i>
BU DENG HONG HOU KE	不等红厚壳*	Disparate Beautyleaf*	T1128 <i>Calophyllum dispar</i>
BU DUI CHENG MAO RU	不对称猫乳*	Asymmetry Rhamnella*	T5453 <i>Rhamnella inaequilatera</i>
BU GU ZHI	补骨脂	Malaytea Scurfpea	T5270 <i>Psoralea corylifolia</i>
BU LANG WEI JI	布郎维吉*		T1041 <i>Brunsvigia radulosa</i>
BU MEI HE BAO HUA	不美荷包花*	Chile Calceolaria*	T1110 <i>Calceolaria inamoena</i>
BU SHI LONG DAN	布氏龙胆	Burser Gentian*	T2905 <i>Gentiana burseri</i>
BU XUE CAO	补血草	Gmelin Sealavender Herb	T3842 <i>Limonium gmelinii</i>
BU YING CAO	捕蝇草	Venus's Flytrap	T2186 <i>Dionaea muscipula</i>
BU YU HONG	不育红	Yunnan Rabdosia	T5401 <i>Rabdosia yuennanensis</i>
CAI BAN YANG TI JIA	彩斑羊蹄甲*	Variagate Bauhinia*	T0881 <i>Bauhinia variegata</i>
CAI DOU SHU	菜豆树	Asia Belltree	T5402 <i>Radermachera sinica</i>
CAI JI	菜薹	Globe Artichoke	T1966 <i>Cynara scolymus</i>
CAI SHI MU MA SANG	采食木马桑	Arboreous Coriaria*	T1689 <i>Coriaria arborea</i>
CAI SI CANG ER	蔡斯苍耳*	Chase Cocklebur*	T6836 <i>Xanthium chasei</i>
CAI WEN QIAN JIN TENG	彩纹千金藤*	Discolor Stephania*	T6124 <i>Stephania discolor</i>
CAN DOU	蚕豆	Broadbean	T6744 <i>Vicia faba</i>
CAN DOU JIA KE	蚕豆荚壳	Broadbean Pericarp	T6745 <i>Vicia faba</i>
CAN DOU JING	蚕豆茎	Broadbean Stem	T6746 <i>Vicia faba</i>
CAN DOU YE	蚕豆叶	Broadbean Leaf	T6747 <i>Vicia faba</i>
CAN JIAN	蚕茧	Silk Cocoon	T0976 <i>Bombyx mori</i>
CAN SANG	蚕桑*	Silk Mulberry*	T4292 <i>Morus bombycis</i>
CANG BAI BING ROU CHI JUN	苍白柄肉齿菌*		T5735 <i>Sarcodon glaucopus</i>
CANG BAI CHENG GOU FENG	苍白秤钩风	Glaucous Diploclisia	T2233 <i>Diploclisia glaucescens</i>
CANG BAI FEN TENG	苍白粉藤	Pale Treebine*	T1454 <i>Cissus pallida</i>
CANG BAI QI SHE TAI	苍白岐舌苔*		T5803 <i>Schistochila glaucescens</i>
CANG BAI ZI JIN	苍白紫堇	Pale Corydalis	T1740 <i>Corydalis sempervirens</i>
CANG ER	苍耳	Siberian Cocklebur	T6843 <i>Xanthium sibiricum</i> [Syn. <i>Xanthium strumarium</i>]
CANG MAO JIN FA XUAN	苍毛金发癣	Dark-hair Gold-hair Moss*	T5135 <i>Polytrichum pollidisetum</i>
CANG SHAN XIANG CHA CAI	苍山香茶菜	Cangshan Rabdosia	T3482 <i>Isodon bulleyana</i>
CANG ZHU	苍术(茅苍术)	Swordlike Atractylodes	T0823 <i>Atractylodes lancea</i>
CAO BEI MU	草贝母	Indian Iphigenia	T3443 <i>Iphigenia indica</i>
CAO CONG RONG	草苳蓉	Russian Boschniakia	T0993 <i>Boschniakia rossica</i>
CAO DI MAO GEN	草地毛茛*	Meadow Buttercup	T5412 <i>Ranunculus acris</i>
CAO DI WU TOU	草地乌头	Meadow Monkshood	T0138 <i>Aconitum umbrosum</i>
CAO DIAN QIAN LI GUANG	草甸千里光	Ragwort	T5890 <i>Senecio jacobaea</i>
CAO DOU KOU	草豆蔻	Katsumada Galangal	T0358 <i>Alpinia katsumadai</i>
CAO GU	草菇	Straw Mushroom	T6803 <i>Volvariella volvacea</i>
CAO HU JIAO	草胡椒	Shiny Peperomia	T4705 <i>Peperomia pellucida</i>
CAO MAO JIA DU JUAN	糙毛假杜鹃*		T0872 <i>Barleria strigosa</i>
CAO MEI	草莓	Common Strawberry	T2763 <i>Fragaria ananassa</i>
CAO MEI CHE ZHOU CAO	草莓车轴草	Strawberry Clover	T6518 <i>Trifolium fragiferum</i>
CAO SHAO YAO	草芍药	Obovate Peony	T4586 <i>Paeonia obovata</i>

CAO SU	糙苏	Jerusalem sage	T4814 <i>Phlomis umbrosa</i>
CAO WEN JING	草问荆	Meadow Horsetail	T2410 <i>Equisetum pratense</i>
CAO WU JIU	草乌柏	Sylvatic Sapium*	T6146 <i>Stillingia sylvatica</i> [Syn. <i>Sapium sylvatica</i>]
CAO XIANG WAN DOU	草香豌豆	Indian Pea	T3710 <i>Lathyrus sativus</i>
CAO YE BAI JIANG	糙叶败酱	Scabrous Patrinia	T4673 <i>Patrinia scabra</i>
CAO YE YI WA JU	糙叶依瓦菊*		T3542 <i>Iva asperifolia</i>
CAO YUAN DA JI	草原大戟	Grassland Euphorbia*	T2620 <i>Euphorbia stepposa</i>
CAO YUAN LAO GUAN CAO	草原老鹳草	Meadow Cranesbill	T2944 <i>Geranium pratense</i>
CE BAI YE	侧柏叶	Chinese Arborvitae Leaf	T6440 <i>Thuja orientalis</i> [Syn. <i>Platycladus orientalis</i> ; <i>Biota orientalis</i>]
CE BAI ZHI JIE	侧柏枝节	Chinese Arborvitae Branch	T6439 <i>Thuja orientalis</i> [Syn. <i>Platycladus orientalis</i> ; <i>Biota orientalis</i>]
CEN PI	椴皮	Largeleaf Chinese Ash Bark	T2777 <i>Fraxinus rhynchophylla</i> [Syn. <i>Fraxinus chinensis</i> var. <i>rhynchophylla</i>]
CENG KONG JUN	层孔菌*	Polypore	T2751 <i>Fomitopsis spraguei</i>
CHA HUA	茶花	Tea Flower	T1150 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]
CHA MEI	茶梅	Sasanqua Camellia	T1149 <i>Camellia sasanqua</i>
CHA MI SEN TUN CAO	查米森豚草	Chamisson Ragweed	T0399 <i>Ambrosia chamissonis</i>
CHA QIE	查茄	Cha Nightshade*	T5994 <i>Solanum chacoense</i>
CHA RU SHI WAN CUO	插入十万错*	Ya-Yaa (Thai name)	T0812 <i>Asystasia intrusa</i>
CHA RUI SHU YU	叉蕊薯蓣	Collett Yam	T2194 <i>Dioscorea collettii</i>
CHA SHI SHE BIAN JU	查氏蛇鞭菊*	Champan Gay-feather*	T3787 <i>Liatris champanii</i>
CHA SHU	樟树	Common Sassafras	T5746 <i>Sassafras tzumu</i>
CHA SHU GEN	茶树根	Tea Root	T1151 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]
CHA TIAO QI	茶条槭	Amur Maple	T0049 <i>Acer ginnala</i>
CHA XIONG	茶芎	Chaxiong Ligusticum	T3825 <i>Ligusticum sinense</i> cv. <i>chaxiong</i>
CHA YE	茶叶	Common Tea	T1152 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]
CHA YU BIAN DI JIN	察隅遍地金	Chayu St.John'swort	T3369 <i>Hypericum wightianum</i> subsp. <i>axillare</i>
CHA ZI	茶子	Tea Seed	T1154 <i>Camellia sinensis</i> [Syn. <i>Thea sinensis</i>]
CHA ZI XIN	茶子心	Oiltea Camellia	T1146 <i>Camellia oleifera</i>
CHA ZI YUAN BAI	叉子圆柏	Savin Juniper	T3595 <i>Juniperus sabina</i>
CHAI HU	柴胡(北柴胡)	Chinese Thorowax	T1059 <i>Bupleurum chinense</i>
CHAI HU ZHUANG QIAN LI GUANG	柴胡状千里光	Thorowax-like Groundsel*	T5882 <i>Senecio bupleuroides</i>
CHAI HUANG JIANG	柴黄姜	Rosthorn Yam	T2204 <i>Dioscorea nipponica</i> ssp. <i>rosthornii</i>
CHAI SHOU	柴首	Chaishou Thorowax	T1058 <i>Bupleurum chaishoui</i>
CHAN CHU	蟾蜍	Toad	T1049 <i>Bufo bufo gargarizans</i> ; <i>Bufo melanostictus</i>
CHAN CHU DAN	蟾蜍胆	Toad Gall	T1050 <i>Bufo bufo gargarizans</i> ; <i>Bufo melanostictus</i>
CHAN GAO MU JIANG ZI	潺槁木姜子	Gluey Litse	T3887 <i>Litsea glutinosa</i>
CHAN PI	蟾皮	Toad Skin	T1051 <i>Bufo bufo gargarizans</i> ; <i>Bufo melanostictus</i>
CHAN RAO HUANG TAN	缠绕黄檀	Voluble Rosewood*	T2019 <i>Dalbergia volubilis</i>
CHAN SU	蟾酥	Toad Skin Secretion Cake	T1052 <i>Bufo bufo gargarizans</i> ; <i>Bufo melanostictus</i>
CHAN YANG	颤杨	American Aspen	T5163 <i>Populus tremuloides</i>
CHAN YI TENG	蝉翼藤	Cicadawingvine	T5847 <i>Securidaca inappendiculata</i>
CHANG BAI SHAN BAO CHUN	长白山报春	Changpai Mountains Primrose	T5201 <i>Primula modesta</i>
CHANG BAN JIN LIAN HUA	长瓣金莲花	Langpetal Globeflower	T6554 <i>Trollius macropetalus</i>
CHANG BIAN HUA DANG GUI	长边花当归*	Longradiate Angelica*	T0488 <i>Angelica longeradiata</i>
CHANG BING FENG WEI JUE	长柄凤尾蕨	Pretty Brake	T5286 <i>Pteris bella</i>

CHANG BING HU JIAO	长柄胡椒	Longstalk Pepper*	T4969 <i>Piper sulvaticum</i>
CHANG BING QI YE SHU	长柄七叶树	Assam Horsechestnut	T0198 <i>Aesculus assamica</i>
CHANG BING YUAN BAI	长柄圆柏*	Longpetiole Juniper*	T3590 <i>Juniperus macropoda</i>
CHANG CHUN HUA	长春花	Madagascar Periwinkle	T1271 <i>Catharanthus roseus</i> [Syn. <i>Vinca rosea</i> ; <i>Lochera rosea</i>]
CHANG CHUN TENG	常春藤	Chinese Ivy	T3113 <i>Hedera nepalensis</i> var. <i>sinensis</i>
CHANG CHUN YOU MA TENG	常春油麻藤	Evergreen Mucuna	T4311 <i>Mucuna sempervirens</i>
CHANG E JIN LIAN MU PI	长萼金莲木皮*	Macrocalyx Ochna Bark*	T4466 <i>Ochna macrocalyx</i>
CHANG E QU MAI	长萼瞿麦	Longcalyx Pink*	T2146 <i>Dianthus superbus</i> var. <i>longicalycinus</i>
CHANG GENG CU FEI	长梗粗榧	Longstalk Plumyew*	T1321 <i>Cephalotaxus harringtonia</i> var. <i>drupacea</i>
CHANG GENG DONG QING	长梗冬青	Longpedicel Holly	T3395 <i>Ilex pedunculosa</i>
CHANG GENG JIAO GU LAN	长梗绞股蓝	longstalk Gynostemma	T3084 <i>Gynostemma longipes</i>
CHANG GENG NAN WU WEI ZI	长梗南五味子	Longpeduncle Kadsura	T3619 <i>Kadsura peltigera</i> [Syn. <i>Kadsura longipedunculata</i>]
CHANG GENG YU LI REN	长梗郁李仁	Longpedicel Chinese Buscherry Seed	T5225 <i>Prunus japonica</i> var. <i>nakaii</i>
CHANG GUAN JIA MO LI	长管假茉莉	Indian Glorybower	T1557 <i>Clerodendron indicum</i>
CHANG GUAN XIANG CHA CAI	长管香茶菜	Longtube Rabdosia	T5393 <i>Rabdosia longituba</i>
CHANG GUAN XUAN CAO	长管萱草*	Longtube Daylily*	T3196 <i>Hemerocallis longituba</i>
CHANG GUO BI BA	长果葎苳	Petrofracted Pepper	T4964 <i>Piper retrofractum</i>
CHANG GUO XUE DAN	长果雪胆	Longfruit Hemsleya	T3205 <i>Hemsleya dolichocarpa</i>
CHANG GUO YING SU	长果罌粟	Long-headed Poppy	T4626 <i>Papaver dubium</i>
CHANG HU JIAO	长胡椒		T4945 <i>Piper elongatum</i>
CHANG HUA BAN KE YA SHU	长花瓣柯桤树*	Longpetal Vouacapoua*	T6805 <i>Vouacapoua macropetala</i>
CHANG HUA GOU TENG	长花钩藤*	Longflower Gambirplant*	T6624 <i>Uncaria longiflora</i>
CHANG HUA RUI MU	长花蕊木*	Longflower Kopsia*	T3642 <i>Kopsia longiflora</i>
CHANG HUA TU LA SHU	长花图腊树	Longflower Galipea*	T2828 <i>Galipea longiflora</i>
CHANG HUA XIE CAO	长花纈草	Longflower Valerian*	T1313 <i>Centranthus longiflorus</i> ssp. <i>longiflorus</i>
CHANG HUA XU MA QIAN ZI	长花序马钱子	Longthyrus Poisonnut*	T6171 <i>Strychnos dolichothyrsa</i>
CHANG HUI AN	长喙桫	Long-rostrate Eucalyptus*	T2518 <i>Eucalyptus rostrata</i>
CHANG JI HUANG	长吉黄		T5477 <i>Rheum</i> sp.
CHANG JIAO DOU	长角豆	Carob	T1326 <i>Ceratonia siliqua</i>
CHANG JIE ZHU	长节珠	Laevigate Parameria	T4642 <i>Parameria laevigata</i>
CHANG JU YAN HU SUO	长矩延胡索	Longspur Corydalis*	T1722 <i>Corydalis longicalcarata</i>
CHANG LV GOU WEN	常绿钩吻	Carolina Jasmine	T2899 <i>Gelsemium sempervirens</i>
CHANG MAO FENG MAO JU	长毛凤毛菊	Hawkweed-like Saussurea	T5770 <i>Saussurea superba</i> [Syn. <i>Saussurea hieracioides</i>]
CHANG MAO HAN XIAO	长毛含笑*	Longhairy Michelia*	T4213 <i>Michelia lanuginosa</i>
CHANG MAO XIANG KE KE	长毛香科科	Pilose Germander	T6365 <i>Teucrium pilosum</i> [Syn. <i>Teucrium japonicum</i> var. <i>pilosum</i>]
CHANG MAO ZI YUAN ZHI	长毛籽远志	Longhair Milkwort	T5090 <i>Polygala wattersii</i>
CHANG NIU JIAO GUA	长牛角瓜*	Long Calotrope*	T1136 <i>Calotropis procera</i>
CHANG ROU MAO WEI LING CAI	长柔毛委陵菜	Velutinous Cinquefoil	T5183 <i>Potentilla griffithii</i> var. <i>velutina</i>
CHANG RUI LIU LI CAO	长蕊琉璃草	Circinate Solenanthus	T6021 <i>Solenanthus circinatus</i>
CHANG SHAN	常山	Antifebrile Dichroa	T2158 <i>Dichroa febrifuga</i>
CHANG SHENG TIE JIAO JUE	长生铁角蕨	Prolongated Spleenwort	T0776 <i>Asplenium prolongatum</i>
CHANG SHUO HUANG MA	长蒴黄麻	Jews-mallow	T1675 <i>Corchorus olitorius</i>
CHANG SUI BA DOU	长穗巴豆	LongspikeCroton*	T1851 <i>Croton macrostachys</i>
CHANG TONG HAN HUA	长筒旱花	Cylinder Immortelle	T6847 <i>Xeranthemum cylindraceum</i>
CHANG WEI CU YE MU	长尾粗叶木	Acuminate Lasianthus	T3696 <i>Lasianthus acuminatissimus</i>
CHANG WEI FU YE ER JUE	长尾复叶耳蕨	Simple Arachniodes	T0565 <i>Arachniodes simplicior</i>

CHANG WEI PO PO NA	长尾婆婆纳	Longleaf Speedwell	T6725 <i>Veronica longifolia</i>
CHANG XIANG MAO	长香茅*	Long Lemongrass*	T1946 <i>Cymbopogon procerus</i>
CHANG XU XIE CAO	长序缬草	Hardwick Valeriana	T6676 <i>Valeriana hardwickii</i>
CHANG YAO GE CHONG LOU	长药隔重楼	Tibet Paris	T4650 <i>Paris polyphylla</i> var. <i>pseudothibetica</i>
CHANG YE AI JU	长叶艾菊	Longleaf Tansy	T6292 <i>Tanacetum longifolium</i>
CHANG YE AN LUO	长叶暗罗	India Greenstar	T5065 <i>Polyalthia longifolia</i>
CHANG YE CHANG CHUN HUA	长叶长春花	Longleaf Periwinkle*	T1268 <i>Catharanthus longifolius</i>
CHANG YE CHE QIAN	长叶车前	Buckhorn Plantain	T5006 <i>Plantago lanceolata</i>
CHANG YE FEI SHU	长叶榧树	Jack Torreya	T6478 <i>Torreya jackii</i>
CHANG YE GE NA XIANG	长叶哥纳香	Longleaf Goniotalamus	T3045 <i>Goniotalamus gardneri</i>
CHANG YE HOU KE GUI	长叶厚壳桂*	Longleaf Cryptocarya*	T1863 <i>Cryptocarya longifolia</i>
CHANG YE KUAN MU	长叶宽木		T2634 <i>Eurycoma longifolia</i>
CHANG YE MAN MI PING GUO	长叶曼密苹果	Longleaf Mammey*	T4095 <i>Mammea longifolia</i>
CHANG YE QIAN LI GUANG	长叶千里光*	Longleaf Groundsel*	T5891 <i>Senecio longifolius</i>
CHANG YE SHUI MA	长叶水麻	Longleaf Debregeasia	T2056 <i>Debregeasia longifolia</i>
CHANG YE SONG	长叶松	Long-leaved Pine	T4919 <i>Pinus palustris</i>
CHANG YE TIAN MING JING	长叶天名精	Longleaf Carpesium	T1213 <i>Carpesium longifolium</i>
CHANG YE XIANG CHA CAI	长叶香茶菜	Longleaf Rabdosia	T5400 <i>Rabdosia stracheyi</i>
CHANG YUAN XIN XING HU TONG	长圆心形胡桐*	Cordate-oblong Beautyleaf*	T1127 <i>Calophyllum cordato-oblongum</i>
CHANG YUAN YE XIAO BO	长圆叶小檗	Oblong-leaved Barberry	T0910 <i>Berberis oblonga</i>
CHANG ZHU TANG SONG CAO	长柱唐松草	Longstyle Meadowrue*	T6396 <i>Thalictrum longistylum</i>
CHANG ZI MA QIAN	长籽马钱	Wallich Poisonnut	T6193 <i>Strychnos wallichiana</i>
CHAO AO DING CAO	巢凹顶藻		T3720 <i>Laurencia nidifica</i>
CHAO FENG CAO	潮风草	Acuminate Swallowwort	T1950 <i>Cynanchum ascyrifolium</i>
CHAO XIAN BAI TOU WENG	朝鲜白头翁	Korean Pulsatilla	T5324 <i>Pulsatilla cernua</i>
CHAO XIAN CANG ZHU	朝鲜苍术	Koreaen Atractylodes	T0822 <i>Atractylodes koreana</i>
CHAO XIAN DA BAI LI XIANG	朝鲜大百里香*	Korean Big Thyme*	T6448 <i>Thymus magnus</i>
CHAO XIAN DANG GUI	朝鲜当归	Gigantic Angelica	T0483 <i>Angelica gigas</i>
CHAO XIAN HUAI	朝鲜槐	Amur Maackia	T4009 <i>Maackia amurensis</i>
CHAO XIAN JI	朝鲜蓟	Stemless Carlina Thistle	T1208 <i>Carlina acaulis</i>
CHAO XIAN LANG YA CI	朝鲜狼牙刺	Korean Sophora	T6037 <i>Sophora koreensis</i>
CHAO XIAN LENG SHAN	朝鲜冷杉*	Korean Fir	T0005 <i>Abies koreana</i>
CHAO XIAN LIAN QIAO	朝鲜连翘*	Korean Forsythia*	T2754 <i>Forsythia koreana</i>
CHAO XIAN LUO WAN	朝鲜裸菀*		T3079 <i>Gymnaster koraiensis</i>
CHAO XIAN WU JIA	朝鲜五加	Korean Acanthopanax*	T0040 <i>Acanthopanax koreanum</i>
CHAO XIAN WU JIAO FENG	朝鲜五角枫	Okamoto Maple	T0051 <i>Acer okamotoanum</i>
CHAO XIAN YIN YANG HUO	朝鲜淫羊藿	Korean Epimedium	T2398 <i>Epimedium koreanum</i>
CHE QIAN	车前	Asiatic Plantain	T5002 <i>Plantago asiatica</i>
CHE QIAN YE LAN JI	车前叶蓝蓟	Purple Viper's-bugloss	T2319 <i>Echium plantagineum</i>
CHE SANG ZI YE	车桑仔叶	Clammy Hopseedbush Leaf	T2243 <i>Dodonaea viscosa</i>
CHE SHI NAN	车氏楠*	Chemens Phoebe*	T4815 <i>Phoebe chemensii</i>
CHEN DONG CAI LU ZHI	陈冬菜卤汁	Mature Winter-vegetable Spiced Juice	T1006 <i>Brassica chinensis</i>
CHEN XIANG	沉香	Eaglewood	T0554 <i>Aquilaria agallocha</i>
CHENG GAN CAO	秤杆草	Japanese Eupatorium	T2563 <i>Eupatorium japonicum</i>
CHENG GAN SHENG MA	秤杆升麻	Lindley Eupatorium	T2565 <i>Eupatorium lindleyanum</i>
CHENG KOU SHI DA GONG LAO	城口十大功劳	Chengkou Mahonia	T4072 <i>Mahonia shenii</i>
CHENG KOU TANG SONG CAO	城口唐松草	Farges Meadowrue	T6382 <i>Thalictrum fargesii</i>
CHENG LIU	怪柳	Chinese Tamarisk	T6286 <i>Tamarix chinensis</i>
CHENG LIU YE YUAN BAI	怪柳叶圆柏*	Tamarisk-leaf Juniper*	T3596 <i>Juniperus sabina</i> var. <i>tamariscifolia</i>
CHENG QIE ZI	澄茄子	Mountain Spicy Tree	T3885 <i>Litsea cubeba</i>
CHENG ZI	橙子	Fragrant Citrus	T1486 <i>Citrus junos</i>

CHENG ZI HE	橙子核	Fragrant Citrus Seed	T1487 <i>Citrus junos</i>
CHENG ZI PI	橙子皮	Pericarp	T1488 <i>Citrus junos</i>
CHI A MI	齿阿米	Tooth Ammi	T0412 <i>Ammi visnaga</i>
CHI AN	赤桉	Longbeak Eucalyptus	T2502 <i>Eucalyptus camaldulensis</i>
CHI BAN YAN HU SUO	齿瓣延胡索	Toothedpetal Corydalis	T1734 <i>Corydalis remota</i> [Syn. <i>Corydalis bulbosa</i> var. <i>typica</i>]
CHI CHI JUE MING	齿翅决明*	Toothwing Senna*	T1231 <i>Cassia dentata</i>
CHI DOU	赤豆	Assuki Bean	T6752 <i>Vigna angularis</i> [Syn. <i>Dolichus angularis</i> ; <i>Phaseolus angularis</i>]
CHI GENG TENG	匙羹藤	Australian Cowplant	T3080 <i>Gymnema sylvestri</i>
CHI GUO HUANG QI	翅果黄芪*	Wingfruit Milkvetch*	T0802 <i>Astragalus pterocarpus</i>
CHI GUO TENG	翅果藤	Extended Wingfruitvine	T4350 <i>Myriopteron extensum</i>
CHI MA	赤麻	Tricuspidate Falsenettle	T0962 <i>Boehmeria platanifolia</i> [Syn. <i>Boehmeria tricuspis</i>]
CHI NAN	赤楠	Boxleaf Syzygium	T6264 <i>Syzygium buxifolium</i>
CHI SHAO wild	赤芍	Common Peony (wild)	T4584 <i>Paeonia lactiflora</i> wild
CHI YANG	赤杨	Japanese Alder	T0328 <i>Alnus japonica</i>
CHI YE CAO	齿叶草	Lateripening Bartsia	T4479 <i>Odontites serotina</i>
CHI YE MEI DENG MU	齿叶美登木	Serrate-leaved Mayten	T4139 <i>Maytenus serrata</i>
CHI YE SHUI LIAN	齿叶睡莲	White Lotus, Egyptian Lotus	T4455 <i>Nymphaea lotus</i>
CHI YE TIE ZI	齿叶铁仔	Serrate-leaf Myrsine	T4364 <i>Myrsine semiserrata</i>
CHI YE TUO WU	齿叶橐吾	Toothleaf Goldenray	T3802 <i>Ligularia dentata</i>
CHONG BAI LA	虫白蜡	Cera Chinensis Wax	T2420 <i>Ericerus pela</i>
CHONG BAN XUAN CAO	重瓣萱草	Doublepetalous Daylily*	T3194 <i>Hemerocallis fulva</i> var. <i>kwanso</i>
CHONG CHUN YU	重唇鱼	Skin-carp	T3199 <i>Hemibarbus labeo</i>
CHONG LOU PAI CAO	重楼排草	Parishshape Loosestrife	T4004 <i>Lysimachia paridiformis</i>
CHONG MING BA JIAO LIAN	崇明八角莲	Chongming Many-flowered May-apple*	T2303 <i>Dysosma subrosea</i>
CHONG SHENG RUAN SHAN HU	冲绳软珊瑚*	Okinawan Softcoral <i>Clavularia viridis</i>	T1542 <i>Clavularia viridis</i>
CHONG YA YAO	虫牙药	Ternateleaf Rabdosia	T3529 <i>Isodon ternifolius</i>
CHOU A WEI	臭阿魏	Foetid Giantfennel*	T2700 <i>Ferula foetida</i>
CHOU BAI	臭柏	Savin	T5640 <i>Sabina vulgaris</i>
CHOU CAO	臭草	Common Rue	T5626 <i>Ruta graveolens</i>
CHOU LENG SHAN	臭冷杉	Khingan Fir	T0006 <i>Abies nephrolepis</i>
CHOU MO LI	臭茉莉	Fragrant Glorybower	T1556 <i>Clerodendron fragrans</i>
CHOU MU DAN	臭牡丹	Rose Glorybower (Clerodendrum)	T1565 <i>Clerodendrum bungei</i>
CHOU SHAN YANG	臭山羊	Japanese Orixia	T4527 <i>Orixia japonica</i>
CHOU WEI HONG DOU	臭味红豆	Bean Trefoil	T0441 <i>Anagyris foetida</i>
CHOU WU TONG	臭梧桐	Harlequin Glorybower Leaf	T1562 <i>Clerodendron trichotomum</i>
CHOU WU TONG GEN	臭梧桐根	Harlequin Glorybower Root	T1563 <i>Clerodendron trichotomum</i>
CHU AI JU	雏艾菊	Feverfew	T6294 <i>Tanacetum parthenium</i>
CHU BAI PI	樗白皮	Tree of Heaven Ailanthus Bast	T0255 <i>Ailanthus altissima</i>
CHU CHONG JU	除虫菊	Dalmatian Pyrethrum	T1388 <i>Chrysanthemum cinerariaefolium</i>
CHU JU	雏菊	English Daisy	T0893 <i>Bellis perennis</i>
CHU TU HAI CONG	出土海葱*		T6647 <i>Urginea epigea</i>
CHU YE HUA JIAO	樗叶花椒	Ailanthus-like Pricklyash	T6860 <i>Zanthoxylum ailanthoides</i>
CHU YE HUA JIAO GEN	樗叶花椒根	Ailanthus-like Pricklyash Root	T6861 <i>Zanthoxylum ailanthoides</i>
CHU YE HUA JIAO PI	樗叶花椒皮	Ailanthus-like Pricklyash Bark	T6862 <i>Zanthoxylum ailanthoides</i>
CHUAN BA JIAO LIAN	川八角莲	Veitch Dysosma	T2304 <i>Dysosma veitchii</i>
CHUAN BEI MU	川贝母	Tendrilleaf Fritillary	T2783 <i>Fritillaria cirrhosa</i>
CHUAN CHAN JIU JIE LONG	川产九节龙	Tiny Ardisia	T0601 <i>Ardisia pusilla</i>
CHUAN CHI SHAO	川赤芍	Veitch Peony	T4590 <i>Paeonia veitchii</i>

CHUAN DANG SHEN	川党参	Szechwan Tangshen	T1602 <i>Codonopsis tangshen</i>
CHUAN DIAN JIN SI TAO	川滇金丝桃	Forrest's St.John'swort	T3352 <i>Hypericum forrestii</i>
CHUAN DIAN SHI DA GONG LAO	川滇十大功劳	Veitch Mahonia	T4076 <i>Mahonia veitchiorum</i>
CHUAN DIAN YIN YANG HUO	川滇淫羊藿	David Epimedium	T2392 <i>Epimedium davidii</i>
CHUAN DONG ZHANG YA CAI	川东獐牙菜	E.Chuan Swertia	T6217 <i>Swertia davidii</i>
CHUAN E YIN YANG HUO	川鄂淫羊藿	Farges Epimedium	T2395 <i>Epimedium fargesii</i>
CHUAN HUANG QIN	川黄芩	St. Johnswortleaf Skullcap	T5839 <i>Scutellaria hypericifolia</i>
CHUAN JU	川橘	King Orange	T1502 <i>Citrus nobilis</i>
CHUAN LI GUO	川梨果	Pashi Pear Fruit	T5365 <i>Pyrus pashia</i>
CHUAN LIAN PI	川棘皮	Szechwan Chinaberry Bark	T4162 <i>Melia toosendan</i>
CHUAN LIAN ZI	川棘子	Szechwan Chinaberry Fruit	T4163 <i>Melia toosendan</i>
CHUAN LONG SHU YU	穿龙薯蓣	Nippon Yam	T2203 <i>Dioscorea nipponica</i>
CHUAN MU XIANG	川木香	Common Vladimiria	T6802 <i>Vladimiria souliei</i> [Syn. <i>Jurinea souliei</i>]
CHUAN NIU XI	川牛膝	Mediinal Cyathula	T1924 <i>Cyathula officinalis</i>
CHUAN QIAN CUI QUE HUA	川黔翠雀花	Bonvalot Larkspur	T2062 <i>Delphinium bonvalotii</i>
CHUAN SHAN CHENG	川山橙	Hemsley Melodinus	T4178 <i>Melodinus hemsleyanus</i>
CHUAN SHAN JIA	穿山甲	Pangolin	T4106 <i>Manis pentadactyla</i>
CHUAN SHANG LONG MI GOU TENG	川上泷弥钩藤	Kawakami Gambirplant*	T6619 <i>Uncaria kawakamii</i>
CHUAN SHI JIAN	穿石剑	Rock-ginger Fern	T5252 <i>Pseudodrynaria coronans</i>
CHUAN XI YIN YANG HUO	川西淫羊藿	Elongate Barrenwort	T2394 <i>Epimedium elongatum</i>
CHUAN XI ZHANG YA CAI	川西獐牙菜	Mussot Swertia	T6227 <i>Swertia mussozii</i>
CHUAN XIN LIAN	穿心莲	Common Andrographis	T0457 <i>Andrographis paniculata</i> [Syn. <i>Justicia paniculata</i>]
CHUAN XIONG	川芎	Chuanxiong (Wallich Ligusticum)	T3820 <i>Ligusticum chuanxiong</i> [Syn. <i>Ligusticum wallichii</i>]
CHUAN XU DUAN	川续断	Himalayan Teasel	T2234 <i>Dipsacus asperoides</i>
CHUAN ZANG XIANG CHA CAI	川藏香茶菜	Szechwan-Tibet Rabdosia	T3518 <i>Isodon pharicus</i>
CHUAN ZHU ER YE TAI	串珠耳叶苔	Rosary Ear-leaf Muscus*	T2803 <i>Frullania tamarisci</i> ssp. <i>moniliata</i> [Syn. <i>Frullania moniliata</i>]
CHUI MU FANG JI	垂木防己	Drooping Snailseed*	T1588 <i>Cocculus pendulus</i>
CHUI QI MU	垂椴木	Drooping Alder*	T0330 <i>Alnus pendula</i>
CHUI ZHI CHI AN YE	垂枝赤桉叶	Pendulous Eucalyptus Leaf	T2504 <i>Eucalyptus camaldulensis</i> var. <i>pendula</i>
CHUI ZHU SUAN PAN ZI	榧柱算盘子	Srilanka Glochidion	T2990 <i>Glochidion zeylanicum</i>
CHUI ZI MAI MA TENG	垂子买麻藤	Pendentseed Jointfir	T3034 <i>Gnetum pendulum</i>
CHUN	蕓	Common Watershield	T1004 <i>Brasenia schreberi</i>
CHUN BAI PI	椿白皮	Chinese Toon Root-bast	T6475 <i>Toona sinensis</i>
CHUN E BO HE	唇萼薄荷	Pennyroyal Mint	T4187 <i>Mentha pulegium</i>
CHUN FU SHOU CAO	春福寿草	Yellow Adonis	T0191 <i>Adonis vernalis</i>
CHUN QIAN LI GUANG	春千里光	Eastern Groundsel	T5914 <i>Senecio vernalis</i>
CHUN ZHU JU TAI	唇柱苣苔	Chirita	T1370 <i>Chirita micronusa</i>
CI BAI	刺柏	Taiwan Juniper	T3588 <i>Juniperus formosana</i>
CI BO	刺菠	Hirsute Rasperry	T5592 <i>Rubus hirsutus</i>
CI CAI JI	刺菜蓟	Cardoon	T1965 <i>Cynara cardunculus</i>
CI CAO SU	刺糙苏	Pungent Jerusalem sage*	T4811 <i>Phlomis pungens</i>
CI DOU KOU	刺豆蔻	Aculeate Amomum*	T0415 <i>Amomum aculeatum</i>
CI GU	慈菇	Oldworld Arrowhead Corm	T5647 <i>Sagittaria sagittifolia</i>
CI GUI	刺桧	Prickly Juniper	T3592 <i>Juniperus oxycedrus</i>
CI GUO FAN LI ZHI	刺果番荔枝	Guanabana	T0509 <i>Annona muricata</i>
CI GUO GAN CAO	刺果甘草	Pricklyfruit Licorice	T3018 <i>Glycyrrhiza pallidiflora</i>
CI GUO SONG	刺果松	Bristlecone Pine	T4905 <i>Pinus aristata</i>
CI GUO SU MU	刺果苏木	Nickernut Caesalpinia	T1100 <i>Caesalpinia crista</i>
CI GUO TUN CAO	刺果豚草	Bur Sage	T0395 <i>Ambrosia acanthicarpa</i>

CI HUA JIAO	刺花椒	Acanthoid Pricklyash*	T6858 <i>Zanthoxylum acanthopodium</i>
CI HUA LIAN ZI CAO	刺花莲子草	Spinyflower Alternanthera	T0380 <i>Alternanthera repens</i>
CI HUAI HUA	刺槐花	Black Locust Flower	T5552 <i>Robinia pseudoacacia</i>
CI JI LI	刺蒺藜	Puncturevine Caltrap	T6497 <i>Tribulus terrestris</i>
CI JI NU ZONG LV	刺急怒棕桐	Aculeate Ruffle Palm	T0259 <i>Aiphanes aculeata</i>
CI KE HUA JIAO	刺壳花椒	Spinyfruit Pricklyash	T6878 <i>Zanthoxylum echinocarpum</i>
CI LI	刺梨	Roxburgh Rose	T5570 <i>Rosa roxburghii</i>
CI MA QIAN ZI	刺马钱子*	Aculeate Poisonnut*	T6163 <i>Strychnos aculeata</i>
CI MANG BING HUA	刺芒柄花	Restharrow	T4493 <i>Ononis spinosa</i>
CI NAN SHE TENG	刺南蛇藤	Hookedspine Bittersweet	T1286 <i>Celastrus flagellaris</i>
CI QIU SHU PI	刺楸树皮	Septemlobate Kalopanax Bark	T3625 <i>Kalopanax septemlobus</i>
CI SAN JIA	刺三甲	Trifoliolate Acanthopanax	T0045 <i>Acanthopanax trifoliatus</i>
CI TIAN QIE	刺天茄	Khasi Nightshade Fruit	T6003 <i>Solanum khasianum</i>
CI TONG	刺桐	Coral-tree	T2478 <i>Erythrina variegata</i> [Syn. <i>Erythrina indica</i>]
CI TOU FU YE ER JUE	刺头复叶耳蕨		T0563 <i>Arachniodes exilis</i>
CI WU JIA	刺五加	Manyprickle Acanthopanax	T0041 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]
CI WU JIA PI	刺五加皮	Manyprickle Acanthopanax Root-bark	T0042 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]
CI WU JIA YE	刺五加叶	Manyprickle Acanthopanax Leaf	T0043 <i>Acanthopanax senticosus</i> [Syn. <i>Eleutherococcus senticosus</i>]
CI YANG LI DOU	刺痒豨豆	Cowage Velvet-bean	T4310 <i>Mucuna pruriens</i>
CI YE SHI DA GONG LAO	刺叶十大功劳	Acanthus-leaved Mahonia	T4053 <i>Mahonia acanthifolia</i>
CI YI YE HUA JIAO	刺异叶花椒	Spinyleaf Pricklyash	T6874 <i>Zanthoxylum dimorphophyllum</i> var. <i>spinifolium</i>
CI ZHUANG FAN LI ZHI	刺状番荔枝	Spined Custardapple*	T0512 <i>Annona spinescens</i>
CONG BAI	葱白	Fistular Onion	T0314 <i>Allium fistulosum</i>
CONG JIAN MU	葱檉木*	Alliaceouse Pencilwood*	T2307 <i>Dysoxylum alliaceum</i>
CONG LI ZAO	丛粒藻		T0996 <i>Botryococcus braunii</i>
CONG MU	楸木	Japanese Aralia	T0568 <i>Aralia chinensis</i>
CONG ZHU XUE LIAN	丛株雪莲		T5771 <i>Saussurea tridactyla</i> var. <i>maidugonla</i>
CU	醋	Vinegar	T6764 Vinegar
CU CAO BA QIA	粗糙菝葜	Lebrun Greenbrier	T5979 <i>Smilax lebrunii</i>
CU CAO LONG DAN	粗糙龙胆	Scabrous Gentian*	T2931 <i>Gentiana scabra</i> var. <i>buesgeri</i>
CU CAO SHE BIAN JU	粗糙蛇鞭菊	Scabrous Gay-feather*	T3791 <i>Liatris scabra</i>
CU CAO SHI CHE JU	粗糙矢车菊	Rough Star Thistle	T1301 <i>Centaurea aspera</i> ssp. <i>aspera</i>
CU CI XIAO BO	簇刺小檗	Actino-spiny Barberry	T0896 <i>Berberis actinacantha</i>
CU GUO TANG SONG CAO	粗果唐松草	Purple Meadowrue	T6377 <i>Thalictrum dasycarpum</i>
CU GUO XIANG CHA CAI	粗果香茶菜	Roughfruit Rabdosia*	T3500 <i>Isodon lasiocarpa</i>
CU HUA ZHANG YA CAI	簇花獐牙菜	Fascicled Swertia*	T6220 <i>Swertia fasciculata</i>
CU JING QIN JIAO	粗茎秦艽	Thickstem Gentian	T2909 <i>Gentiana crassicaulis</i>
CU JING WU TOU	粗茎乌头	Thickstem Monkshood	T0089 <i>Aconitum crassicaule</i>
CU KANG CHAI	粗糠柴	Philippine Mallotus*	T4083 <i>Mallotus philippinensis</i>
CU LIU GUO	醋柳果	Seabuckthorn Fruit	T3254 <i>Hippophae rhamnoides</i>
CU MAO GAN CAO	粗毛甘草	Hirsute Licorice	T3011 <i>Glycyrrhiza aspera</i>
CU MAO GUO BAI JIAN MU	粗毛果白坚木	Hirsutefruit White Quebracho*	T0763 <i>Aspidosperma dasycarpum</i>
CU MAO LIN GAI JUE	粗毛鳞盖蕨	Strigose Microlepia	T4220 <i>Microlepia strigosa</i> [Syn. <i>Trichomanes strigosa</i>]
CU MAO NAN SHE TENG	粗毛南蛇藤	Hirsute Bittersweet*	T1295 <i>Celastrus strigillosus</i>
CU MAO NIU SHE CAO	粗毛牛舌草	Hemhem (in Jordan)	T0448 <i>Anchusa strigosa</i>
CU MAO SHU YU	粗毛薯蓣*	Hirsute Yam*	T2199 <i>Dioscorea hirsuta</i>
CU MAO YIN YANG HUO	粗毛淫羊藿	Acuminatum Epimedium	T2389 <i>Epimedium acuminatum</i>
CU PI SHAN HE TAO	粗皮山核桃	Shagbark Hickory	T1219 <i>Carya ovata</i>

CU SHE BIAN JU	粗蛇鞭菊	Scaly Blazing Star	T3794 <i>Liatris squarrosa</i>
CU SHENG AO DING ZAO	簇生凹顶藻	Cluster Concave-top Alga*	T3715 <i>Laurencia caespitosa</i>
CU SHENG HUA DUO GUO SHU	簇生花多果树*		T5016 <i>Pleiocarpa pycnantha</i> var. <i>tubicina</i>
CU SHENG HUANG REN SAN	簇生黄韧伞	Sulfur Tuft	T4366 <i>Naematoloma fasciculare</i>
CU SHENG KA BU MU	簇生卡布木		T1096 <i>Cabucala fasciculata</i>
CU SHENG SHAN XIANG	簇生山香	Fascicled Bushmint*	T3379 <i>Hyptis fasciculata</i>
CU WEN HAI LONG	粗吻海龙		T6487 <i>Trachyrhamphus serratus</i>
CU XI MEN FEI CAO	粗西门肺草*	Rough Comfrey	T6244 <i>Symphytum asperum</i>
CU YE MAI HU JIAO	粗叶脉胡椒*	Grossnerve Pepper*	T4943 <i>Piper crassinervium</i>
CU YE MAI MI HUA SHU	粗叶脉密花树*	Rough-veined Rapanea*	T5416 <i>Rapanea neurophylla</i>
CU YE RONG	粗叶榕	Hispid Fig	T2727 <i>Ficus simplicissima</i>
CU YE XUAN GOU ZI	粗叶悬钩子	Roughleaf Raspberry	T5587 <i>Rubus alceaefolius</i>
CU YING MAO DIAN ZI CAO	粗硬毛滇紫草*	Hispid Onosma*	T4498 <i>Onosma hispida</i>
CU YING MAO TIE XIAN CAI	粗硬毛铁苋菜*	Chenille Plant, Red-hot Cat's-tail	T0035 <i>Acalypha hispida</i>
CU YING MAO TUN CAO	粗硬毛豚草*	Hispid Ragweed*	T0402 <i>Ambrosia hispida</i>
CU YING MAO XIAN KONG JUN	粗硬毛纤孔菌		T3425 <i>Inonotus hispidus</i>
CU ZHUANG JIN JI NA	粗壮金鸡纳*	Robust Cinchona*	T1430 <i>Cinchona robusta</i>
CU ZHUANG KA FEI	粗壮咖啡	Robust Coffee*	T1611 <i>Coffea robusta</i>
CU ZHUANG LONG DAN	粗壮龙胆	Robust Gentian*	T2929 <i>Gentiana robusta</i>
CU ZHUANG NV ZHEN	粗壮女贞	Japanese Privet	T3829 <i>Ligustrum robustum</i>
CU ZHUANG SUAN TENG ZI	粗壮酸藤子	Robust Embelia*	T2349 <i>Embelia robusta</i>
CU ZHUANG YU TENG	粗壮鱼藤*	Robust Jewelvine	T2122 <i>Derris robusta</i>
CUI DENG XIN LIU SHAN HU	脆灯心柳珊瑚	Gorgonian <i>Junceella fragilis</i>	T3574 <i>Junceella fragilis</i>
CUI MIAN SHUI QIE	催眠睡茄	Somniferous Withania	T6829 <i>Withania somnifera</i>
CUI QUE HUA	翠雀花	Bouquet Larkspur	T2077 <i>Delphinium grandiflorum</i>
CUI QUE YE DUAN GUAN CAO	翠雀叶短冠草	Delphinileaf Sopubia*	T6050 <i>Sopubia delphinifolia</i>
CUI TU LUO FU MU	催吐萝芙木	Emitic Devilpepper	T5427 <i>Rauvolfia vomitoria</i>
CUI YUN CAO	翠云草	Hooked Spikemoss	T5870 <i>Selaginella uncinata</i>
DA A MI	大阿米	Big Ammi	T0410 <i>Ammi majus</i>
DA BA JIAO	大八角	Big Anisetree*	T3403 <i>Illicium majus</i>
DA BAI DING CAO	大白顶草	Field Groundsel	T5894 <i>Senecio oryzetorum</i>
DA BO GU	大驳骨	Malabanut	T0170 <i>Adhatoda vasica</i>
DA BO SI JU	大波斯菊	Mexican Aster	T1753 <i>Cosmos bipinnata</i>
DA CAO KOU	大草蔻	Beautiful Galangal	T0363 <i>Alpinia speciosa</i>
DA CHANG CHUN HUA	大长春花*	Greater Periwinkle	T6760 <i>Vinca herbacea</i> [Syn. <i>Vinca major</i>]
DA CHAO CAI	大巢菜	Common Vetch	T6750 <i>Vicia sativa</i>
DA CHE QIAN	大车前	Rippleseed Plantain	T5007 <i>Plantago major</i>
DA CHI JI	大翅蓟	Scotch Cottonthistle	T4494 <i>Onopordum acanthium</i>
DA DA HE MIAN BAO GUO	达达赫面包果*	Dadah Artocarpus*	T0711 <i>Artocarpus dadah</i>
DA DING CAO	大丁草	Gerbera	T2950 <i>Gerbera anandria</i> [Syn. <i>Leibnitzia anandria</i>]
DA DOU	大豆	Soybean	T2998 <i>Glycine max</i>
DA DU WU TOU	大渡乌头	Franchet Monkshood	T0097 <i>Aconitum franchetii</i>
DA E BIAN XING XIANG CHA CAI	大萼变型香茶菜	Largesepal Rabdosia	T3513 <i>Isodon macrocalyx</i>
DA E JIN SI TAO	大萼金丝桃	Rose-of-Sharon	T3343 <i>Hypericum calycinum</i>
DA E XIANG CHA CAI	大萼香茶菜	Largesepal Rabdosia	T3511 <i>Isodon macrocalyx</i>
DA ER MA WEI YA LIU CHUAN YU	达耳马威亚柳穿鱼	Balkan Toadflax	T3843 <i>Linaria dalmatica</i>
DA ER WEN XIAO BO	达尔文小槲	Darwin Barberry	T0901 <i>Berberis darwinii</i>
DA FEI YANG CAO	大飞扬草	Garden Euphorbia	T2590 <i>Euphorbia hirta</i>
DA FENG ZI	大风子	Chaulmoogratree Seed	T3300 <i>Hydnocarpus anthelminticus</i>
DA GE NA XIANG	大哥纳香	Big Goniotalamus*	T3046 <i>Goniotalamus giganteus</i>
DA GUO BAI MU	大果柏木	Monterey Cypress	T1897 <i>Cupressus macrocarpa</i>

DA GUO DA JI	大果大戟	Largefruit Euphorbia*	T2626 <i>Euphorbia wallichii</i>
DA GUO KA FEI	大果咖啡	Liberian Coffee	T1610 <i>Coffea liberica</i>
DA GUO TAO JIN NIANG	大果桃金娘	Bigfruit Rosemyrtle*	T5527 <i>Rhodomyrtus macrocarpa</i>
DA GUO XI FAN LIAN	大果西番莲	Giant Granadilla	T4667 <i>Passiflora quadrangularis</i>
DA HONG GU	大红菇	Big Russula*	T5621 <i>Russula lepida</i>
DA HONG YING SU	大红罂粟	Bracteate Poppy*	T4623 <i>Papaver bracteatum</i>
DA HUA CAO SU	大花糙苏*	Largeflower Jerusalem sage	T4808 <i>Phlomis grandiflora</i> var. <i>grandiflora</i>
DA HUA DAO DI LING	大花倒地铃	Bigflower Heartseed*	T1196 <i>Cardiospermum grandiflorum</i>
DA HUA DI AO DOU	大花迪奥豆		T2185 <i>Dioclea grandiflora</i>
DA HUA GE NA XIANG	大花哥纳香	Bigflower Goniothalamus	T3047 <i>Goniothalamus griffithii</i>
DA HUA HONG JING TIAN	大花红景天	Bigflower Rhodiola	T5494 <i>Rhodiola crenulata</i> [Syn. <i>Rhodiola euryphylla</i>]
DA HUA JIAN MU	大花檉木*	Bigflower Pencilwood*	T2311 <i>Dysoxylum macranthum</i>
DA HUA JIAN QIU LUO	大花剪秋罗	Brilliant Campion	T3950 <i>Lychnis fulgens</i>
DA HUA JIN WA ER	大花金挖耳	Bigflower Carpesium*	T1212 <i>Carpesium eximium</i>
DA HUA JU	大花菊*	Large-flowered Dendranthema*	T2093 <i>Dendranthema grandiflorum</i>
DA HUA LUO XIN FU	大花落新妇	Largeflower Astilbe	T0785 <i>Astilbe macroflora</i>
DA HUA MA CHI XIAN	大花马齿苋	Largeflower Purslane	T5172 <i>Portulaca grandiflora</i>
DA HUA SHAN QIAN NIU	大花山牵牛	Bengal Clockvine	T6444 <i>Thunbergia grandiflora</i>
DA HUA SHAO LAN	大花杓兰	Bigflower Lady's slipper	T1984 <i>Cypripedium macranthum</i> [Syn. <i>Cypripedium tibeticum</i>]
DA HUA WU WEI ZI	大花五味子	Bigflower Magnoliavine*	T5792 <i>Schisandra grandiflora</i>
DA HUA XI XIN	大花细辛	Largeflower Wildginger	T0729 <i>Asarum maximum</i>
DA HUA XUAN FU HUA CAO	大花旋覆花草	British Inula Herb	T3426 <i>Inula britannica</i>
DA HUA YAO WEN SHU LAN	大花药文殊兰*	Macroanther Crinum*	T1802 <i>Crinum macrantherum</i>
DA HUA YIN YANG HUO	大花淫羊藿	Large-flowered Epimedium	T2396 <i>Epimedium grandiflorum</i>
DA HUA YIN YANG HUO BIAN	大花淫羊藿变种	Large-flowered Epimedium Variety	T2397 <i>Epimedium grandiflorum</i> var. <i>thunbergianum</i>
ZHONG			
DA HUA ZI WEI	大花紫薇	Queen Crapemyrtle	T3673 <i>Lagerstroemia speciosa</i> [Syn. <i>Munchausia speciosa</i> ; <i>Lagerstroemia flos-reginae</i>]
DA HUA ZI YU PAN	大花紫玉盘	Largeflower Uvaria	T6662 <i>Uvaria grandiflora</i>
DA HUANG	大黄(药用大黄)	Medicinal Rhubarb	T5472 <i>Rheum officinale</i>
DA HUI QIN	大茴芹*	Big Anise*	T4899 <i>Pimpinella magna</i>
DA JI ⁽⁴⁾	大薊	Japanese Thistle	T1449 <i>Cirsium japonicum</i>
DA JI ⁽³⁾	大戟	Peking Euphorbia	T2608 <i>Euphorbia pekinensis</i>
DA JIN NIU CAO	大金牛草	Chinese Milkwort	T5073 <i>Polygala chinensis</i> [Syn. <i>Polygala glomerata</i>]
DA JIN QIAN CAO	大金钱草(金钱草)	Christina Loosestrife	T3998 <i>Lysimachia christinae</i>
DA LANG DU	大狼毒	Large Euphorbia Root	T2602 <i>Euphorbia nematocarpa</i>
DA LI HUA	大丽花	Aztec Dahlia	T1996 <i>Dahlia pinnata</i> [Syn. <i>Dahlia variabilis</i>]
DA LI LU TI CAO	大理鹿蹄草	Forrest Pyrola	T5348 <i>Pyrola forrestiana</i>
DA LIANG JIANG	大良姜	Galanga Galangal	T0356 <i>Alpinia galanga</i>
DA MA DOU LING	大马兜铃*	Maxima Dutchmanspipe*	T0633 <i>Aristolochia maxima</i>
DA MA JIN	大麻槿	Kenaf Hibiscus	T3238 <i>Hibiscus cannabinus</i>
DA MA SHI GE QIANG WEI	大马士革蔷薇	Damask Rose	T5564 <i>Rosa damascena</i>
DA MA YE ZE LAN	大麻叶泽兰	Hemp-agrimony	T2554 <i>Eupatorium cannabinum</i>
DA MU JIANG ZI	大木姜子	Grand Litse*	T3890 <i>Litsea grandis</i>
DA PENG TENG	搭棚藤	Disciform Prana*	T5190 <i>Prana discifera</i>
DA PO WAN HUA HUA	打破碗花花	Hupeh Anemone	T0468 <i>Anemone hupehensis</i>
DA QIAN HU	大前胡	Big Hogfennel*	T4757 <i>Peucedanum grande</i>
DA QING YANG	大青杨	Ussuri Poplar	T5165 <i>Populus ussuriensis</i>
DA QING YE	大青叶	Indigo-coloured Woad Leaf	T3476 <i>Isatis indigotica</i>

DA SAN YE SHENG MA	大三叶升麻	Cowparsnipleaf Bugbane	T1421 <i>Cimicifuga heracleifolia</i>
DA SUAN	大蒜	Garlic	T0318 <i>Allium sativum</i>
DA TIAO WEN XIE HAO	大条纹邪蒿*	Bigstreak Seseli*	T5930 <i>Seseli grandivittatum</i>
DA TOU SUAN	大头蒜	Wild Leek	T0309 <i>Allium ampeloprasum</i>
DA TOU TUO WU	大头橐吾	Japanese Goldenray	T3808 <i>Ligularia japonica</i> [Syn. <i>Arnica japonica</i> ; <i>Senecio japonica</i>]
DA TU SI ZI	大菟丝子	Japanese Dodder Seed	T1913 <i>Cuscuta japonica</i>
DA TUAN NANG CHONG CAO	大团囊虫草	Goldenthrad Cordyceps	T1682 <i>Cordyceps ophioglossoides</i>
DA WEI YAO	大尾摇	Indian Heliotrope	T3174 <i>Heliotropium indicum</i>
DA WU LI QIN JIAO	达乌里秦艽	Dahuria Gentian	T2910 <i>Gentiana dahurica</i>
DA XIAN YUAN ZHI	大腺远志	Macradenous Milkwort*	T5077 <i>Polygala macradenia</i>
DA XING QIN	大星芹	Astrantia	T0810 <i>Astrantia major</i>
DA XUE HUA LIAN	大雪花莲	Giant Snowdrop	T2821 <i>Galanthus elweli</i>
DA XUE TENG	大血藤	Sargentgloryvine	T5741 <i>Sargentodoxa cuneata</i>
DA YE AN YE	大叶桉叶	Swamp Mahogany Leaf	T2517 <i>Eucalyptus robusta</i>
DA YE BAI TOU WENG	大叶白头翁	Common Pearleverbasting	T0446 <i>Anaphalis margaritacea</i>
DA YE CAI	大叶菜	Doederlein's Spikemoss	T5861 <i>Selaginella doederleinii</i>
DA YE CHAI HU	大叶柴胡	Bigleaf Thorowax	T1065 <i>Bupleurum longiradiatum</i>
DA YE CHOU HUA JIAO	大叶臭花椒	Manyspiny Pricklyash*	T6883 <i>Zanthoxylum myriacanthum</i>
DA YE DIAO LAN	大叶吊兰	Bigleaf Breaketplant	T1380 <i>Chlorophytum malayense</i>
DA YE DONG QING	大叶冬青	Broadleaf Holly	T3393 <i>Ilex latifolia</i>
DA YE GOU TENG	大叶钩藤	Largeleaf Gambirplant	T6625 <i>Uncaria macrophylla</i>
DA YE GU SUI BU	大叶骨碎补	Taiwan Davallia	T2052 <i>Davallia divaricata</i> [Syn. <i>Davallia formosana</i> ; <i>Davallia orientalis</i>]
DA YE GUA TAI MU	大叶瓜泰木		T3069 <i>Guatteria amplifolia</i>
DA YE HOU PO	大叶厚朴	Bigleaf Magnolia	T4048 <i>Magnolia rostrata</i>
DA YE HUA JIAO	大叶花椒	Shellfish Pricklyash	T6876 <i>Zanthoxylum dissitum</i>
DA YE HUA JIAO GEN	大叶花椒根	Shellfish Pricklyash Root	T6877 <i>Zanthoxylum dissitum</i>
DA YE JIN HUA CAO	大叶金花草	Common Wedgelet Fern	T6116 <i>Stenoloma chusanum</i>
DA YE JING KOU BIAN CAO	大叶井口边草	Cretan Brake	T5287 <i>Pteris cretica</i>
DA YE JU	大叶薺	Largeleaf Pipper*	T4951 <i>Piper laetispicum</i>
DA YE KU NUO NI	大叶库诺尼*		T1891 <i>Cunonia macrophylla</i>
DA YE LUO FU MU	大叶萝芙木	Largeleaf Devilpepper*	T5437 <i>Rauwolfia macrophylla</i>
DA YE MAO ZHU MU	大叶帽柱木	Abura Mitragyna	T4257 <i>Mitragyna macrophylla</i>
DA YE NAN YANG SHAN	大叶南洋杉	Bunya Bunya	T0578 <i>Araucaria bidwillii</i>
DA YE NAN YANG SHEN	大叶南洋参*	Bigleaf Polyscias*	T5130 <i>Polyscias amplifolia</i>
DA YE NIU FANG FENG	大叶牛防风	Giant Hogweed	T3216 <i>Heracleum mantegazzianum</i>
DA YE NIU NAI CAI	大叶牛奶菜	Ko Condorvine	T4117 <i>Marsdenia koi</i>
DA YE QIAN CAO	大叶茜草	Smoothstalk Madder	T5583 <i>Rubia schumannina</i>
DA YE SHE PU TAO	大叶蛇葡萄	Largeleaf Ampelopsis	T0428 <i>Ampelopsis megalophylla</i>
DA YE SHU LAN	大叶树兰	Largeleaf Aglaia*	T0235 <i>Aglaia elliptifolia</i>
DA YE TANG JIAO SHU	大叶糖胶树	Deviltree Alstonia	T0370 <i>Alstonia macrophylla</i>
DA YE TANG SONG CAO	大叶唐松草	Faber Meadowrue	T6381 <i>Thalictrum faberi</i>
DA YE TENG HUANG	大叶藤黄	Yellowjuice Garcinia	T2880 <i>Garcinia xanthochymus</i>
DA YE TU MU XIANG	大叶土木香	Largeleaf Inula	T3430 <i>Inula grandis</i>
DA YE XIAN MAO	大叶仙茅	Largeleaf Curculigo	T1900 <i>Curculigo capitulata</i> [Syn. <i>Leucojum capitulata</i>]
DA YE XIANG CHA CAI	大叶香茶菜	Largeleaf Rabdosia	T5394 <i>Rabdosia macrophylla</i>
DA YE XIANG RU	大叶香薷	Twoanther Mosla	T4305 <i>Mosla dianthera</i>
DA YE YANG	大叶杨	Bigleaf Poplar	T5155 <i>Populus lasiocarpa</i>
DA YE YOU MU YUN XIANG	大叶柚木芸香*		T6320 <i>Teclea grandifolia</i>
DA YE YUN XIANG CAO	大叶芸香草	Perforated Haplophyllum	T3104 <i>Haplophyllum perforatum</i>
DA YE ZI YU PAN	大叶紫玉盘	Largeleaf Uvaria*	T6665 <i>Uvaria macrophylla</i>

DA YE ZI ZHU	大叶紫珠	Bigleaf Beautyberry	T1120 <i>Callicarpa macrophylla</i>
DA YE ZUI YU CAO	大叶醉鱼草	Orangeeye Butterflybush	T1046 <i>Buddleja davidii</i>
DA YI ZHI JIAN	大一枝箭	Golden Lycoris	T3983 <i>Lycoris aurea</i>
DA YU BIAO HUA	大鱼鳔花	Shortclustered Plantainlily	T3283 <i>Hosta sieboldiana</i>
DA YUN SHI	大云实	Large Caesalpinia*	T1105 <i>Caesalpinia major</i>
DA ZAO	大枣	Chinese Date	T6916 <i>Ziziphus jujuba</i>
DA ZHUI XIANG CHA CAI	大锥香茶菜	Bigthyrse Rabdosia	T3514 <i>Isodon megathyrsus</i>
DA ZI JIN GU CAO	大籽筋骨草	Largeseed Bugle	T0266 <i>Ajuga macrosperma</i>
DA ZI MAI MA TENG	大籽买麻藤	Bigseed Jointfir	T3032 <i>Gnetum montanum</i> f. <i>megalocarpum</i>
DA ZI XUE DAN	大籽雪胆	Largeseed Hemsleya	T3208 <i>Hemsleya macrosperma</i>
DA ZI ZHANG YA CAI	大籽獐牙菜	Bigseed Swertia	T6225 <i>Swertia macrosperma</i>
DAI DAI HUA	玳玳花	Bitter Citrus	T1469 <i>Citrus aurantium</i> var. <i>amara</i>
DAN BAN GOU YA HUA	单瓣狗牙花	Divaricate Ervatamia	T2442 <i>Ervatamia divaricata</i>
DAN GAI TIE XIAN JUE	单盖铁线蕨	Monochlamys Maidenhair	T0174 <i>Adiantum monochlamys</i>
DAN HONG QIANG DAO YAO	淡红枪刀药*	Rose Hypoestes*	T3374 <i>Hypoestes rosea</i>
DAN HUANG BA DOU	淡黄巴豆*	Flavescent Croton*	T1845 <i>Croton flavens</i>
DAN HUANG KU MA DOU	淡黄苦马豆*	Yellowish Swainsonia*	T6209 <i>Swainsonia luteola</i>
DAN HUANG MU XI CAO	淡黄木犀草		T5452 <i>Reseda luteola</i>
DAN HUANG XIANG CHA CAI	淡黄香茶菜	Yellowish Rabdosia	T3488 <i>Isodon flavidus</i>
DAN HUANG ZHANG YA CAI	淡黄獐牙菜	Yellowish Swertia*	T6235 <i>Swertia punicea</i> var. <i>lutescens</i>
DAN HUI BAI SHAN MA HUANG	淡灰白山蚂蝗*	Light-hoar Tickclover*	T2128 <i>Desmodium canum</i>
DAN JI ER YUAN WEI	丹吉尔鸢尾	Tingit Iris	T3472 <i>Iris tingitana</i>
DAN JUE CHUANG	单爵床	Simple Rostellularia	T3610 <i>Justicia simplex</i>
DAN LI XIAO MAI	单粒小麦	Einkorn	T6545 <i>Triticum monococcum</i>
DAN LV CUI QUE	淡绿翠雀*	Virescent Larkspur	T2090 <i>Delphinium virescens</i>
DAN MU	胆木	Medicinal Fatheadtree	T4391 <i>Nauclea officinalis</i>
DAN SHEN	丹参	Danshen	T5680 <i>Salvia miltiorrhiza</i>
DAN SUI SHI SONG	单穗石松	Interrupted Clubmoss	T3965 <i>Lycopodium annotinum</i>
DAN TIAO CAO	单条草	White Pearlweed	T3996 <i>Lysimachia candida</i>
DAN YE DONG FENG JU	单叶东风橘*	Monoleaf Atalantia*	T0815 <i>Atalantia monophylla</i>
DAN YE MAN JING	单叶蔓荆	Simpleleaf Shrub Chastetree	T6790 <i>Vitex rotundifolia</i> [Syn. <i>Vitex trifolia</i> var. <i>simplicifolia</i>]
DAN YE MAN JING ZI	单叶蔓荆子	Simpleleaf Shrub Chastetree Fruit	T6791 <i>Vitex rotundifolia</i> [Syn. <i>Vitex trifolia</i> var. <i>simplicifolia</i>]
DAN YE XIN YUE JUE	单叶新月蕨	Simple Pronephrium	T5209 <i>Pronephrium simplex</i> [Syn. <i>Meniscium simplex</i>]
DAN YE YOU GAN	单叶油柑*	Singleleaf Acronychia*	T0149 <i>Acronychia haplophylla</i>
DAN ZHI DAO HUA	单枝稻花	Simplex Rice-flower*	T4893 <i>Pimelea simplex</i>
DAN ZHONG ZAO JIA	单种皂荚*	Monoseed Honeylocust*	T2977 <i>Gleditsia monosperma</i>
DAN ZHU YE	淡竹叶	Common Lophatherum	T3920 <i>Lophatherum gracile</i>
DAN ZHU YE GEN	淡竹叶根	Common Lophatherum Root	T3921 <i>Lophatherum gracile</i>
DAN ZI HAO	单籽蒿*	Monoseed Wormwood*	T0686 <i>Artemisia monosperma</i>
DAN ZI MA HUANG	单子麻黄	Oneseed Ephedra	T2375 <i>Ephedra monosperma</i>
DAN ZI SHAN ZHA	单子山楂	Common Hawthorn	T1773 <i>Crataegus monogyna</i>
DAN ZI ZI MAO	单籽紫柳	Bengal Kino	T1083 <i>Butea monosperma</i>
DANG GUI	当归	Chinese Angelica	T0495 <i>Angelica sinensis</i>
DANG SHEN	党参	Pilose Asiabell	T1599 <i>Codonopsis pilosula</i>
DANG YAO	当药	Chinese Swertia*	T6214 <i>Swertia chinensis</i>
DAO CAO	稻草	Rice Straw	T4544 <i>Oryza sativa</i>
DAO CHI MEI JUN	稻赤霉菌		T2960 <i>Gibberella zeae</i>
DAO DOU	刀豆	Sword Jackbean	T1169 <i>Canavalia gladiata</i>
DAO FU XIANG CHA CAI	道孚香茶菜	Dawo Rabdosia	T3484 <i>Isodon dawoensis</i>
DAO GEN MEI	稻根霉*		T5490 <i>Rhizopus oryzae</i>

DAO LUAN YE FU SHI JUE	倒卵叶伏石蕨	Obovateleaf Lemnaphyllum*	T3737 <i>Lemnaphyllum microphyllum</i> var. <i>obovatum</i>
DAO LUAN YE PU GONG YING GEN	倒卵叶蒲公英根	Obovaleaf Dandelion Root	T6302 <i>Taraxacum obovatum</i>
DAO NIAN ZI	倒捻子	Mangosteen	T2863 <i>Garcinia mangostana</i>
DAO SHI HAO	道氏蒿	Douglas Wormwood*	T0675 <i>Artemisia douglasiana</i>
DAO YE LIU ZU JUE	倒叶瘤足蕨	Dunn's Plagiogyria	T4997 <i>Plagiogyria dunnii</i>
DAO ZHUANG JI GU CHANG SHAN	刀状鸡骨常山*	Spatulate Alstonia*	T0375 <i>Alstonia spatulata</i>
DE GUO LONG DAN	德国龙胆	German Gentian	T2911 <i>Gentiana germanica</i>
DE GUO YUAN WEI	德国鸢尾	German Iris	T3459 <i>Iris germanica</i>
DE KA RUI HUA JIAO	得卡瑞花椒	Decary Pricklyash*	T6873 <i>Zanthoxylum decaryi</i>
DE LA KE BA DOU	得拉克巴豆	Drac Croton*	T1843 <i>Croton draconoide</i>
DE LA MENG DE JIN SI TAO	德拉蒙德金丝桃*	Drummond St.John'swort	T3347 <i>Hypericum drummondii</i>
DE QIN HONG JING TIAN	德钦红景天	Atuntsuen Rhodiola	T5492 <i>Rhodiola atuntsuensis</i>
DENG LONG CAO	灯笼草	Peruvian Groundcherry	T4852 <i>Physalis peruviana</i>
DENG TAI SHU	灯台树	Giant Dogwood	T1697 <i>Cornus controversa</i> [Syn. <i>Bothrocaryum controversum</i>]
DENG XIN CAO	灯芯草	Common Rush	T3578 <i>Juncus effusus</i>
DENG XIN DAI ER DOU	灯心戴尔豆		T5273 <i>Psorothamnus junceus</i>
DENG XIN LIU SHAN HU	灯心柳珊瑚	Gorgonian <i>Junceella juncea</i>	T3576 <i>Junceella juncea</i>
DENG YOU TENG ZI	灯油藤子	Paniculed Bittersweet Seed	T1292 <i>Celastrus paniculatus</i>
DENG ZHAN XI XIN	灯盏细辛	Shortscape Fleabane	T2422 <i>Erigeron breviscapus</i>
DI BU RONG	地不容	Delavay Stephania	T6120 <i>Stephania delavayi</i> [Syn. <i>Stephania epigaea</i>]
DI ER CAO	地耳草	Japanese St.John'swort	T3356 <i>Hypericum japonicum</i>
DI FENG PI	地枫皮	Difengpi Anisetree	T3400 <i>Illicium difengpi</i>
DI GEN JIN SI TAO	迪根金丝桃*	Degen St.John'swort*	T3346 <i>Hypericum degenii</i>
DI GUA ZI	地瓜子	Wayaka Yambean Seed	T4572 <i>Pachyrhizus erosus</i>
DI JIN	地筋	Contorted Tanglehead	T3234 <i>Heteropogon contortus</i>
DI JIN	地锦	Japanese Creeper	T4662 <i>Parthenocissus tricuspidata</i>
DI JIN CAO	地锦草	Humifuse Euphorbia	T2591 <i>Euphorbia humifusa</i>
DI KE DONG	敌克冬	Swamp Loosestrife	T2057 <i>Decodon verticillatus</i>
DI SHAO GUA	地梢瓜	Bastardtoadflaxlike Swallowwort	T1961 <i>Cynanchum thesioides</i>
DI SHI WU TAN	迪氏乌檀	Diderrichi Fatheadtree*	T4389 <i>Nauclea diderrichii</i>
DI SUO LUO	地梭罗		T4109 <i>Marchantia polymorpha</i>
DI TANG BAI BU	棣棠百部*	Kerri Stemon*	T6112 <i>Stemona kerrii</i>
DI TANG CAO	棣棠草	Japanese Hypecoum*	T3333 <i>Hypecoum japonicum</i>
DI TANG HUA	棣棠花	Japanese Kerria Flower	T3628 <i>Kerria japonica</i>
DI TAO HUA	地桃花	Rose Mallow	T6645 <i>Urena lobata</i>
DI TU YI	地图衣		T5485 <i>Rhizocarpon geographicum</i>
DI XIA CHE ZHOU CAO	地下车轴草	Subterranean Clover	T6525 <i>Trifolium subterraneum</i>
DI YANG QUE	地羊鹊	Birdsfoot Trefoil	T3928 <i>Lotus corniculatus</i>
DI YU	地榆	Garden Burnet	T5712 <i>Sanguisorba officinalis</i>
DI ZHONG HAI BAI MU	地中海柏木	Mediterranean Cypress	T1899 <i>Cupressus sempervirens</i>
DI ZHONG HAI DA JI	地中海大戟*	Mediterranean Euphorbia;	T2582 <i>Euphorbia characias</i>
		Mediterranean Spurge	
DI ZHONG HAI JU	地中海菊		T1580 <i>Cnicus benedictu</i>
DI ZHONG HAI MA SANG	地中海马桑*	Mediterranean Coriaria	T1691 <i>Coriaria myrtifolia</i>
DI ZHONG HAI MAO RUI HUA	地中海毛蕊花	Mediterranean Mullein	T6704 <i>Verbascum sinuatum</i>
DI ZHONG HAI ZONG HAI ZAO	地中海棕海藻	Mediterranean Brown Alga <i>Dilophus ligulatus</i>	T2183 <i>Dilophus ligulatus</i>
DIAN BAI ZHI	滇白芷	Scabrous Cowparsnip	T3222 <i>Heracleum scabridum</i>

DIAN BAI ZHU SHU	滇白珠树	Yunnan Gaultheria	T2895 <i>Gaultheria yunnanensis</i>
DIAN DI MEI YE CHA YE HUA	点地梅叶茶叶花	Spreading Dogbane	T0550 <i>Apocynum androsaemifolium</i>
DIAN GOU TENG	滇钩藤	Yunnan Gambirplant	T6639 <i>Uncaria yunnanensis</i>
DIAN HUANG JING	滇黄精	King Solomonseal	T5092 <i>Polygonatum kingianum</i>
DIAN HUANG QIN	滇黄芩	Yunnan Skullcap	T5833 <i>Scutellaria amoena</i>
DIAN JI GU CHANG SHAN	滇鸡骨常山	Yunnan Alstonia	T0378 <i>Alstonia yunnanensis</i>
DIAN JIANG HUA	滇姜花	Yunnan Gingerlily	T3121 <i>Hedychium yunnanense</i>
DIAN LONG DAN	滇龙胆	Rigescens Gentian	T2928 <i>Gentiana rigescens</i>
DIAN MU DAN	滇牡丹	Delavay Peony	T4582 <i>Paeonia delavayi</i>
DIAN NAN HONG HOU KE	滇南红厚壳	S. Yunnan Beautyleaf	T1130 <i>Calophyllum polyanthum</i>
DIAN QIE	颠茄	Common Atropa	T0825 <i>Atropa belladonna</i>
DIAN QIN	滇芹	Common Sinodielsia	T5963 <i>Sinodielsia yunnanensis</i>
DIAN XI WU TOU	滇西乌头	Yunnanwest Monkshood	T0081 <i>Aconitum bulleyanum</i>
DIAN ZHUANG JUAN BAI	垫状卷柏	Cushion-shaped Spikemoss	T5865 <i>Selaginella pulvinata</i>
DIAN ZI CAO	滇紫草	Paniculate Onosma	T4500 <i>Onosma paniculatum</i>
DIAO DENG SHU	吊灯树	Sausagetre	T3629 <i>Kigelia pinnata</i>
DIAO GAN MA	吊干麻	Angled Bittersweet	T1285 <i>Celastrus angulatus</i>
DIAO ZHANG GEN PI	钓樟根皮	Largeleaf Spicebush Root-bark	T3856 <i>Lindera umbellata</i> [Syn. <i>Lindera erythrocarpa</i>]
DIAO ZHANG ZHI YE	钓樟枝叶	Largeleaf Spicebush Branch-leaf	T3857 <i>Lindera umbellata</i> [Syn. <i>Lindera erythrocarpa</i>]
DIE DA LAO	跌打老	Whorlleaf Litsea	T3897 <i>Litsea verticillata</i>
DIE QIAO SHI HU	叠鞘石斛	Denne Denrdobium	T2096 <i>Dendrobium aurantiacum</i> var. <i>denneanum</i>
DING GONG TENG	丁公藤	Obtuseleaf Erycibe	T2449 <i>Erycibe obtusifolia</i>
DING HU DIAO ZHANG	鼎湖钓樟	Chun's Spicebush	T3849 <i>Lindera chunii</i>
DING KE LA QIAN JIN TENG	丁克拉千金藤	Dinklage Stephania*	T6123 <i>Stephania dinklagei</i>
DING QIE	丁茄(野颠茄)	Aculeate Nightshade*	T5989 <i>Solanum aculeatissimum</i>
DING XIANG	丁香	Clove Tree	T6263 <i>Syzygium aromaticum</i> [Syn. <i>Eugenia caryophyllata</i>]
DING XIANG LUO LE	丁香罗勒	Sweetscented Basil	T4473 <i>Ocimum gratissimum</i>
DING YU JU	顶羽菊	Creeping Acroptilon	T0154 <i>Acroptilon repens</i>
DONG AN NA TUO LI YA SHI CHE JU	东安纳托利亚矢车菊	East-Anatolia Centaurea*	T1307 <i>Centaurea pseudoscabiosa</i> ssp. <i>pseudoscabiosa</i>
DONG BEI AN HUA JIN WA ER	东北暗花金挖耳*	Northeast Dim-flower Carpesium*	T1214 <i>Carpesium triste</i> var. <i>manshuricum</i>
DONG BEI CI REN SHEN	东北刺人參	Northeast Spineginseng*, Tall Oplopanax	T4516 <i>Oplopanax elatus</i>
DONG BEI DUO ZU JUE	东北多足蕨	North-east Polypody*	T5126 <i>Polypodium virginianum</i>
DONG BEI HE SHI	东北鹤虱	European Stickseed	T3688 <i>Lappula echinata</i>
DONG BEI HU TAO	东北胡桃*	Northeast Walnut*	T3565 <i>Juglans mandshurica</i> var. <i>sieboldiana</i>
DONG BEI HUI HAO	东北蛔蒿	Northeast Seriphidium	T5921 <i>Seriphidium finitum</i> [Syn. <i>Artemisia finita</i>]
DONG BEI LONG DAN	东北龙胆	Linearleaf Gentian	T2921 <i>Gentiana manshurica</i>
DONG BEI SHI SHAN	东北石杉	Northeast Clubmos*	T3293 <i>Huperzia miyoshiana</i>
DONG BEI TIAN NAN XING	东北天南星	Amur Jackintheulpit	T0617 <i>Arisaema amurense</i>
DONG BEI YAN HU SUO	东北延胡索	Amur Corydalis	T1706 <i>Corydalis ambigua</i> var. <i>amurense</i> [Syn. <i>Corydalis ambigua</i>]
DONG CHONG XIA CAO	冬虫夏草	Aweto (Chinese Caterpillar Fungus)	T1683 <i>Cordyceps sinensis</i>
DONG DANG GUI	东当归	Acutelobed Angelica	T0474 <i>Angelica acutiloba</i> [Syn. <i>Ligusticum acutilobum</i>]
DONG DU HUI	东毒茴	Religious Anisetree*	T3406 <i>Illicium religiosum</i>
DONG E LUO DU WU	东俄洛囊吾	Tongol Goldenray	T3816 <i>Ligularia tongolensis</i>
DONG FANG CANG ER	东方苍耳*	Oriental Cocklebur*	T6840 <i>Xanthium orientale</i>
DONG FANG FEI YAN CAO	东方飞燕草*	Oreintal Consolida*	T1647 <i>Consolida orientalis</i>
DONG FANG GOU JI	东方狗脊	Oriental Chain Fern	T6831 <i>Woodwardia orientalis</i>

DONG FANG GOU TENG	东方钩藤*	Oriental Gambirplant*	T6627 <i>Uncaria orientalis</i>
DONG FANG GOU YA HUA	东方狗牙花	Oriental Ervatamia*	T2446 <i>Ervatamia orientalis</i>
DONG FANG JIA GUO JUE	东方荚果蕨	Oriental Ostrich Fern	T4126 <i>Matteuccia orientalis</i>
DONG FANG TIAN XIAN ZI	东方天仙子	Oriental Henbane*	T3330 <i>Hyoscyamus orientalis</i>
DONG FANG WEI SI MU	东方维斯木*	Oriental Vismia*	T6780 <i>Vismia orientalis</i>
DONG FANG WU TAN	东方乌檀	Oriental Fatheadtree*	T4392 <i>Nauclea orientalis</i>
DONG FANG XI MEN FEI CAO	东方西门肺草*	Soft Comfrey	T6247 <i>Symphytum orientale</i>
DONG FANG XIANG KE KE	东方香科科	Oriental Germander	T6364 <i>Teucrium orientale</i>
DONG FANG YANG DI HUANG	东方洋地黄	Oriental Foxglove*	T2176 <i>Digitalis orientalis</i>
DONG FEI JUE MING	东非决明	East-African Senna*	T1246 <i>Cassia singueana</i>
DONG FEI MA QIAN	东非马钱	East-African Poisonnut*	T6191 <i>Strychnos usambarensis</i>
DONG FENG CAI	东风菜	Scabrous Doellingeria	T2244 <i>Doellingeria scaber</i> [Syn. <i>Aster scaber</i>]
DONG FENG JU GEN	东风橘根	Boxleaf Atalantia Root	T0813 <i>Atalantia buxifolia</i> [Syn. <i>Severinia buxifolia</i>]
DONG FENG JU YE	东风橘叶	Boxleaf Atalantia Leaf	T0814 <i>Atalantia buxifolia</i> [Syn. <i>Severinia buxifolia</i>]
DONG GUA PI	冬瓜皮	Chinese Waxgourd Peel	T0894 <i>Benincasa hispida</i>
DONG GUA ZI	冬瓜籽	Chinese Waxgourd Seed	T0895 <i>Benincasa hispida</i>
DONG JIN BA DOU	东京巴豆*	Viet Nam Croton*; Kho Sam Cho La	T1859 <i>Croton tonkinensis</i>
DONG LANG DANG	东莨菪	Japanese Scopolia	T5821 <i>Scopolia japonica</i>
DONG LING CAO	冬凌草(碎米槌)	Blushred Rabdosia	T5396 <i>Rabdosia rubescens</i>
DONG NAN JING TIAN	东南景天	Alfred Stonecrop	T5851 <i>Sedum alfredii</i> [Syn. <i>Sedum formosanum</i>]
DONG QIANG	东篱	Whitethorn*	T4435 <i>Nitraria schoberi</i>
DONG QING YE MEI DENG MU	冬青叶美登木	Ilicis-leaf Mayten*	T4135 <i>Maytenus ilicifolia</i>
DONG YA TANG SONG CAO	东亚唐松草		T6401 <i>Thalictrum minus</i> var. <i>hypoleucum</i>
DONG YA ZHI YE TAI	东亚指叶苔		T3761 <i>Lepidozia fauriana</i>
DONG YA ZI JIN NIU	东亚紫金牛		T0603 <i>Ardisia sieboldii</i>
DONG YI HAO JIAN MA	东一号剑麻	Cultivate Sisalan Agave East-1	T0221 <i>Agave east-one</i>
DONG YING SHAN HU MU	东嬴珊瑚木	Japanese Aucuba	T0828 <i>Aucuba japonica</i>
DOU BAN CAI	豆瓣菜	Watercress	T4388 <i>Nasturtium officinale</i>
DOU BAO JUN	豆包菌	Dye-maker's False Puffball	T4978 <i>Pisolithus tinctorius</i> [Syn. <i>Lycoperdon capitatum</i> ; <i>Scleroderma tinctorium</i>]
DOU CHI CAO	豆豉草	Bloodred Iris	T3468 <i>Iris sanguinea</i>
DOU FU CHAI	豆腐柴	Japanese Premna	T5194 <i>Premna microphylla</i>
DOU SHU	豆薯	Wayaka Yambean	T4573 <i>Pachyrrhizus erosus</i>
DOU YE JIU LI XIANG	豆叶九里香	Euchretaleaf Common Jasminorange	T4317 <i>Murraya euchrestifolia</i> [Syn. <i>Clausena euchrestifolia</i>]
DOU YOU	豆油	Soybean Oil	T2999 <i>Glycine max</i>
DOU ZHUANG HE BAO MU DAN	兜状荷包牡丹	Dutchman's Breeches	T2148 <i>Dicentra cucullaria</i>
DU AI BA JIAO	毒矮八角	Poisonous-shrub Anise*	T3408 <i>Illicium tsangii</i>
DU BIAN DOU	毒扁豆	Deadly Calabarbean	T4860 <i>Physostigma venenosum</i>
DU DOU	毒豆	Goldenchain Laburnum	T3648 <i>Laburnum anagyroides</i>
DU E GAO	毒鹅膏	Death Cap	T0385 <i>Amanita phalloides</i>
DU HENG	杜衡	Forbes Wildginger	T0726 <i>Asarum forbesii</i>
DU HONG HUA	杜虹花	Taiwan Beautyberry	T1118 <i>Callicarpa formosana</i>
DU HU LUO BO	毒胡萝卜	Deadly Carrot	T6419 <i>Thapsia garganica</i>
DU HUA JIAO	毒花椒*	Venous Pricklyash*	T6899 <i>Zanthoxylum veneficium</i>
DU HUI MAO DOU	毒灰毛豆	Toxic Tephrosia*	T6341 <i>Tephrosia toxicaria</i>
DU HUO	独活	Doubleteeth Pubescent Angelica	T0492 <i>Angelica pubescens</i> f. <i>biserrata</i> [Syn. <i>Angelica pubescens</i>]
DU JING SHAN	杜荃山	Japanese Maesa	T4029 <i>Maesa japonica</i>

DU JUAN HUA	杜鹃花	Indian Azalea	T5523 <i>Rhododendron simsii</i>
DU JUAN HUA YE	杜鹃花叶	Indian Azalea Leaf	T5524 <i>Rhododendron simsii</i>
DU JUAN LAN	杜鹃兰	Appendiculate Cremastra	T1787 <i>Cremastra appendiculata</i>
DU MA QIAN	毒马钱	Toxic Poisonnut*	T6188 <i>Strychnos toxifera</i>
DU QI TENG	毒漆藤	Poison Ivy	T6481 <i>Toxicodendron radicans</i>
DU QIN GEN	毒芹根	European Waterhemlock Root	T1416 <i>Cicuta virosa</i>
DU SHEN	毒参	Poisonhemlock	T1642 <i>Conium maculatum</i>
DU SONG SHI	杜松实	Stiffleaf Juniper Fruit	T3594 <i>Juniperus rigida</i>
DU WO JU	毒莴苣	Blue Lettuce	T3664 <i>Lactuca virosa</i>
DU XIAN ZI	都咸子	Common Cashew Fruit	T0438 <i>Anacardium occidentale</i>
DU YI WEI	独一味	Common Lamiophlomis	T3679 <i>Lamiophlomis rotata</i> [Syn. <i>Phlomis rotata</i>]
DU YU SHU WEI CAO	毒鱼鼠尾草	<i>Salvia pisidica</i>	T5684 <i>Salvia pisidica</i>
DU ZHONG	杜仲	Eucommia	T2530 <i>Eucommia ulmoides</i>
DU ZHONG YE	杜仲叶	Eucommia Leaf	T2531 <i>Eucommia ulmoides</i>
DUA JING GU DANG GUI	短茎古当归	Shortstem Archangelica*	T0582 <i>Archangelica brevicaulis</i> [Syn. <i>Angelica brevicaulis</i> ; <i>Angelica brevicaulis</i>]
DUAN BAN HUA	短瓣花	Shortpetalflower	T1001 <i>Brachystemma calycinum</i>
DUAN BAN JIN LIAN HUA	短瓣金莲花	Ledebour Globeflower	T6553 <i>Trollius ledebourii</i>
DUAN BANG SHI HU	短棒石斛	Hairstalk Denrdobium	T2097 <i>Dendrobium capillipes</i>
DUAN BAO YE SHA CAO	短苞叶莎草	Shortbractleaf Galingale*	T1974 <i>Cyperus brevibracteatus</i>
DUAN BING HE YE LAN	短柄禾叶兰*	Short-stipe Agrostophyllum*	T0253 <i>Agrostophyllum brevipes</i>
DUAN CHI HUANG QI	短齿黄芪*	Shorttooth Milkvetch*	T0788 <i>Astragalus canadensis</i> var. <i>brevidens</i>
DUAN CI HUA JIAO	短刺花椒*	Shortspine Pricklyash*	T6868 <i>Zanthoxylum brachyacanthum</i>
DUAN E HUANG LIAN	短萼黄连	Shortsepal Goldthread	T1663 <i>Coptis chinensis</i> var. <i>brevisepala</i>
DUAN GENG HU ZHI ZI	短梗胡枝子	Shortstalk Bushclover	T3771 <i>Lespedeza cyrtobotrya</i>
DUAN HUA HU LU	短花葫芦*	Shortflower Bottle Gourd*	T3667 <i>Lagenaria breviflora</i>
DUAN HUA ZHU SHI DOU	短花猪屎豆	Shortflower Crotalaria*	T1816 <i>Crotalaria breviflora</i>
DUAN JIE SHEN	断节参	Kunming Mosquitotrap	T1963 <i>Cynanchum wallichii</i>
DUAN JU	短蒴	Globular Pepper	T4956 <i>Piper mullesua</i>
DUAN MAO DU HUO	短毛独活	Shorthair Cowparsnip	T3217 <i>Heracleum moellendorffii</i> [Syn. <i>Heracleum microcarpum</i> ; <i>Heracleum morifolium</i>]
DUAN MAO JIN XIAN CAO GEN	短毛金线草根	Shorthairy Antenoron	T0519 <i>Antenoron neofiliforme</i>
DUAN PIAN GAO BEN	短片藜本	Shortlobe Ligusticum	T3819 <i>Ligusticum brachylobum</i>
DUAN RONG MAO GOU TENG	短绒毛钩藤*	Velutinous Gambirplant*	T6638 <i>Uncaria velutina</i>
DUAN RONG MAO OU XIA ZHI CAO	短绒毛欧夏至草*	Velutinous Hoarhound*	T4113 <i>Marrubium velutinum</i>
DUAN ROU MAO DA JI	短柔毛大戟*	Shortfluff Euphorbia*	T2613 <i>Euphorbia pubescens</i>
DUAN ROU MAO FEI YAN CAO	短柔毛飞燕草*	Shortfluff Consolida*	T1648 <i>Consolida pubescens</i>
DUAN ROU MAO MA DOU LING	短柔毛马兜铃*	Shortfluff Dutchmanspipe*	T0636 <i>Aristolochia pubescens</i>
DUAN ROU MAO ZHI XIE MU	短柔毛止泻木*	Shortfluff Holarrhena*	T3268 <i>Holarrhena pubescens</i>
DUAN SHE GU	短蛇菰*	Abbreviate Balanophora*	T0857 <i>Balanophora abbreviata</i>
DUAN SHU	椴树*	Common Lime	T6461 <i>Tilia vulgaris</i>
DUAN SUI HU JIAO	短穗胡椒	Shortspike Pepper*	T4939 <i>Piper brachystachyum</i>
DUAN TING SHAN MAI DONG	短葶山麦冬	Short-stipe Liriope*	T3872 <i>Liriope muscari</i>
DUAN XIAN XIAO MI CAO	短腺小米草	Regel Eyebright	T2629 <i>Euphrasia regelii</i>
DUAN XIAO SHE GEN CAO	短小蛇根草	Dwarf Ophiorrhiza	T4514 <i>Ophiorrhiza pumila</i>
DUAN YE HONG DOU SHAN	短叶红豆杉	Pacific Yew	T6308 <i>Taxus brevifolia</i>
DUAN YE JIA MU ZEI	短叶假木贼	Shortleaf Anabasis	T0436 <i>Anabasis brevifolia</i>
DUAN YE JUAN HAO	短叶绢蒿	Shortleaf Wormwood*	T0667 <i>Artemisia brevifolia</i>
DUAN YE LONG DAN	短叶龙胆*	Shortleaf Gentian*	T2904 <i>Gentiana brachyphylla</i>

DUAN YE LONG SHE LAN	短叶龙舌兰	Narrowleaf Agave	T0217 <i>Agave angustifolia</i>
DUAN YE LUO HAN SONG SHI	短叶罗汉松实	Chinese Podocarpus Seed	T5044 <i>Podocarpus macrophyllus</i> var. <i>maki</i>
DUAN YE LUO HAN SONG YE	短叶罗汉松叶	Chinese Podocarpus Leaf	T5045 <i>Podocarpus macrophyllus</i> var. <i>maki</i>
DUAN YE PENG QI JU	短叶虻蓟菊*		T6905 <i>Zexmenia brevifolia</i>
DUAN YE SHAN MA HUANG	椴叶山蚂蝗	Lindenleaf Tickclover*	T2135 <i>Desmodium tiliaefolium</i>
DUAN YE ZHU SHI DOU	短叶猪屎豆*	Shortleaf Crotalaria*	T1817 <i>Crotalaria brevifolia</i>
DUI SHENG MA QIAN	对生马钱	Opposite Poisonnut*	T6169 <i>Strychnos decussata</i>
DUI XIN JU	堆心菊	Sneezeweed	T3134 <i>Helenium autumnale</i>
DUI YE JIN YAO	对叶金腰	Oppositeleaf Goldsaxifrage*	T1407 <i>Chrysosplenium oppositifolium</i>
DUI YE RONG	对叶榕	Oppositeleaf Fig	T2720 <i>Ficus hispida</i>
DUI YE YUAN HU	对叶元胡	Ledeour Corydalis*	T1720 <i>Corydalis ledebouriana</i>
DUN BAO XUE LIAN	钝苞雪莲	Blacken Saussurea	T5762 <i>Saussurea nigrescens</i>
DUN LIE YIN LIAN HUA	钝裂银莲花	Obtuselobed Anemone	T0469 <i>Anemone obtusifolia</i>
DUN XING AO DING ZAO	钝形凹顶藻	Blunt Concave-top Alga*	T3722 <i>Laurencia obtusa</i>
DUN XING BAI YE TENG	钝形白叶藤*	Obtuse Cryptolepis*	T1865 <i>Cryptolepis obtusa</i>
DUN XING CHI AN YE	钝形赤桉叶*	Obtuse Eucalyptus Leaf*	T2503 <i>Eucalyptus camaldulensis</i> var. <i>obtusa</i>
DUN XING JI DAN HUA	钝形鸡蛋花*	Obtuse Frangipani*	T5031 <i>Plumeria obtusa</i>
DUN YE CHE ZHOU CAO	钝叶车轴草	Suckling Clover	T6517 <i>Trifolium dubium</i>
DUN YE DA JI	钝叶大戟*	Obtuseleaf Euphorbia*	T2605 <i>Euphorbia obtusifolia</i> var. <i>obtusifolia</i>
DUN YE DA JI XIANG JIANG	钝叶大戟橡浆*	Obtuseleaf Euphorbia Latex*	T2604 <i>Euphorbia obtusifoli</i>
DUN YE GUI JIU	盾叶鬼臼	Common Mayapple	T5058 <i>Podophyllum peltatum</i>
DUN YE GUI PI	钝叶桂皮	Obtuseleaf Cassia Bark, Wild Cinnamon Bark	T1434 <i>Cinnamomum bejolghota</i> [Syn. <i>Cinnamomum obtusifolium</i> ; <i>Laurus bejolghota</i>]
DUN YE HU JIAO	盾叶胡椒*	Peltateleaf Pepper*	T4960 <i>Piper peltatum</i>
DUN YE JUE MING	钝叶决明	Obtuseleaf Senna*	T1240 <i>Cassia obtusifolia</i>
DUN YE SHU YU	盾叶薯蕷	Peltate Yam	T2213 <i>Dioscorea zingiberensis</i>
DUN YE SUAN MO	钝叶酸模	Bluntleaf Dock	T5613 <i>Rumex obtusifolius</i>
DUN YE TANG SONG CAO	盾叶唐松草	Peltateleaf Meadowrue	T6393 <i>Thalictrum ichangense</i> [Syn. <i>Thalictrum tripeltatum</i> ; <i>Thalictrum multipeltatum</i>]
DUN YE TU NIU XI	钝叶土牛膝	Obtuseleaf Achyranthes	T0072 <i>Achyranthes aspera</i> var. <i>indica</i>
DUN ZHUANG LI JU	盾状粒菊	Matarique (in Mexico)	T5248 <i>Psacalium peltatum</i>
DUN ZHUANG MAO GAO CAI	盾状茅膏菜*	Peltate Sundew*	T2266 <i>Drosera peltata</i>
DUO BAN LV TI CAO	多瓣驴蹄草	Manypetal Marshmarigold	T1138 <i>Caltha polypetala</i>
DUO BEI YIN LIAN HUA	多被银莲花(两头尖)	Radde Windflower	T0470 <i>Anemone raddeana</i>
DUO BIAN HUA BAI LAI SHI JU	多边花白菜氏菊*	Manyradiate Bailai's Chrysanthemum*	T0856 <i>Baileya pleniradiata</i>
DUO BIAN XIAO GUAN HUA	多变小冠花	Crown Vetch	T1702 <i>Coronilla varia</i>
DUO CHI QIAN LI GUANG	多齿千里光	Manytoothed Groundsel*	T5898 <i>Senecio polyodon</i>
DUO CI CHAI HU	多刺柴胡*	Spiny Thorowax*	T1076 <i>Bupleurum spinosum</i>
DUO CI DI SHI MU	多刺迪氏木	Desfontainia spinosa	T2126 <i>Desfontainia spinosa</i>
DUO CI HUANG HUA REN	多刺黄花稔	Spiny Sida*	T5944 <i>Sida spinosa</i>
DUO CI LUO CAO	多刺骡草*	Argentin <i>Mulinum spinosum</i>	T4313 <i>Mulinum spinosum</i>
DUO CI LV RONG HAO	多刺绿绒蒿	Spiny Meconopsis	T4143 <i>Meconopsis horridula</i>
DUO GEN WU TOU	多根乌头	Manyroot Monkshood	T0105 <i>Aconitum karakolicum</i>
DUO GUO SHU	多果树		T5015 <i>Pleiocarpa mutica</i>
DUO GUO YI NAN MU	多果依南木*		T2358 <i>Enantia polycarpa</i>
DUO HUA A WEI	多花阿魏*	Manyflower Giantfennel*	T2705 <i>Ferula polyantha</i>
DUO HUA BA JIAO LIAN	多花八角莲	Manyflower Dysosma*	T2297 <i>Dysosma aurantiocaulis</i>
DUO HUA BAI JIAN MU	多花白坚木*	Multiflower White Quebracho*	T0767 <i>Aspidosperma multiflorum</i>
DUO HUA CAI DOU	多花菜豆	Scarlet Runner Bean	T4781 <i>Phaseolus coccineus</i>
DUO HUA HEI MAI CAO	多花黑麦草	Italian Ryegrass	T3903 <i>Lolium multiflorum</i>
DUO HUA HUANG JING	多花黄精	Manyflower Solomonseal	T5091 <i>Polygonatum cyrtoneuma</i> [Syn.

DUO HUA LAN GUO SHU	多花蓝果树	Manyflower Tupelo*	<i>Polygonatum multiflorum</i>
DUO HUA SHAN MA GAN	多花山麻杆	Manyflower Christmasbush*	T4458 <i>Nyssa sylvatica</i>
DUO HUA SHAO YAO	多花芍药	Himalayan Peony	T0296 <i>Alchornea floribunda</i>
DUO HUA SHUI XIAN	多花水仙	Polyanthus Narcissus	T4583 <i>Paeonia emodi</i>
DUO HUA TENG HUANG	多花藤黄*	Manyflower Garcinia*	T4383 <i>Narcissus tazetta</i>
DUO HUA U LIAN	多花杜楝	Manyflower Starbush*	T2870 <i>Garcinia polyantha</i>
DUO HUA XIAO BO	多花小檗	Free-flowering Barberry	T6569 <i>Turraea floribunda</i>
DUO HUA YANG MEI	多花杨梅	Manyflower Bayberry*	T0904 <i>Berberis floribunda</i>
DUO JIA CAO	多莢草	Manyseed	T4345 <i>Myrica multiflora</i>
DUO LIE WEI LING CAI	多裂委陵菜	Many-cleft Cinquefoil	T5069 <i>Polycarpon prostratum</i>
DUO LIE WU TOU	多裂乌头	Manysplitted Monkshood	T5185 <i>Potentilla multifida</i>
DUO MAI GOU TENG	多脉钩藤*	Many-veined Gambirplant*	T0123 <i>Aconitum polyschistum</i>
DUO MAI NAN MEI ROU DOU KOU	多脉南美肉豆蔻*		T6626 <i>Uncaria nervosa</i>
DUO NI FEI SHA REN	多尼非砂仁		T6769 <i>Virola multinervia</i>
DUO RU TOU HUANG YANG	多乳头黄杨*	Papillose Box*	T0206 <i>Aframomum daniellin</i>
DUO RUI BAI HUA CAI	多蕊白花菜*	Multipistillate Spiderflower*	T1093 <i>Buxus papillosa</i>
DUO SAN A WEI	多伞阿魏	Manyumbell Giantfennel	T1551 <i>Cleome icosandra</i>
DUO SHE FEI PENG	多舌飞蓬	Multiradiate	T2698 <i>Ferula ferulaeoides</i>
DUO SUI LIAO	多穗蓼	Manyspike Knotweed	T2423 <i>Erigeron multiradiatus</i>
DUO SUI LUO HAN SONG SHI	多穗罗汉松实	Manyspike Podocarpus Seed	T5114 <i>Polygonum polystachyum</i>
DUO SUI PO BU MU	多穗破布木*	Manyspike Cordia*	T5052 <i>Podocarpus polystachyus</i>
DUO SUI SHI KE YE	多穗石柯叶	Manyspike Tanoak Leaf	T1678 <i>Cordia multispicata</i>
DUO SUI SHU WEI CAO	多穗鼠尾草		T3878 <i>Lithocarpus polystachyus</i>
DUO SUI TUN CAO	多穗豚草	Manyspike Ragweed	T5686 <i>Salvia polystachya</i>
DUO TOU GE NI DI MU	多头格尼迪木*		T0404 <i>Ambrosia polystachya</i>
DUO XIANG GUO	多香果	Allspice	T3039 <i>Gnidia polycephala</i>
DUO XING JIN FA XIAN	多形金发藓	Polymorphism Gold-hair Moss*	T4894 <i>Pimenta dioica</i>
DUO XIONG RUI LING CHUN MU	多雄蕊领春木*	Polyandrous Euptelea*	T5134 <i>Polytrichum ohioense</i>
DUO XIONG RUI SHANG LU	多雄蕊商陆	Polyandrous Pokeweed	T2630 <i>Euptelea polyandra</i>
DUO XU GONG	多须公	Lavender-gustatory Eupatorium*	T4867 <i>Phytolacca polyandra</i>
DUO XU YAN HUANG QI	多序岩黄芪	Manyraceme Sweetvetch	T2576 <i>Eupatorium stoechadosmum</i>
DUO YE BAI MAI GEN	多叶百脉根	Leafy Trefoil*	T3129 <i>Hedysarum polybotrys</i>
DUO YE JI DOU	多叶棘豆	Leafy Crazyweed	T3931 <i>Lotus polyphyllus</i>
DUO YE JIN SI TAO	多叶金丝桃*	Leafy St.John'swort*	T4568 <i>Oxytropis myriophylla</i>
DUO ZHI AN	多枝椴	Ribbon Gum	T3351 <i>Hypericum foliosum</i>
DUO ZHI CHAI HU	多枝柴胡	Ramose Thorowax*	T2522 <i>Eucalyptus viminalis</i>
DUO ZHI CHENG LIU	多枝柞柳	Branchy Tamarisk	T1068 <i>Bupleurum polyclonum</i>
DUO ZHI KUO BAO JU	多枝阔苞菊*	Ramose Pluchea*	T6290 <i>Tamarix ramosissima</i>
DUO ZHI LONG DAN	多枝龙胆*	Ramose Gentian*	T0849 <i>Baccharis ramosissima</i>
DUO ZHI LONG XUE SHU	多枝龙血树*		T2926 <i>Gentiana ramosa</i>
DUO ZHI PU TE MU	多痣普特木		T2255 <i>Dracaena surculosa</i>
DUO ZHI RU GU	多汁乳菇	Juicy Milky*	T5336 <i>Putterlickia verrucosa</i>
DUO ZHI SONG	多脂松	Red Pine	T3654 <i>Lactarius rolemus</i>
DUO ZHI TIAN JIE CAI	多枝天芥菜	Ramose Heliotrope*	T4921 <i>Pinus resinosa</i>
DUO ZHI ZHI TENG HUANG	多直枝藤黄*		T3178 <i>Heliotropium ramosissimum</i>
DUO ZHONG LU HUI TI QU WU	多种芦荟提取物	Extracts of Aloe spp.	T2879 <i>Garcinia virgata</i>
DUO ZU JUE	多足蕨	Common Polypody	T0346 <i>Aloe</i> spp.
E BAO CHUN	鄂报春	Top Primrose	T5127 <i>Polypodium vulgare</i>
E BEI BEI MU	鄂北贝母	Ebei Fritillary	T5202 <i>Primula obconica</i>
E BU SHI CAO	鹅不食草	Small Centipeda	T2785 <i>Fritillaria ebeiensis</i>
			T1312 <i>Centipeda minima</i>

E CHANG CAI	鹅肠菜	Goose-bowel Vegetable*	T2359 <i>Endarachne binghamiae</i>
E CHI TENG	萼翅藤		T1142 <i>Calycopteris floribunda</i>
E CUI	鹅胛	Goose Tail-meat	T0517 <i>Anser cygnoides domestica</i>
E GUO QIAN HU	俄国前胡	Russian Hogfennel*	T4770 <i>Peucedanum ruthenicum</i>
E GUO XI MEN FEI CAO	俄国西门肺草*	Russian Comfrey	T6249 <i>Symphytum x uplandicum</i>
E LE GANG HE BAO MU DAN	俄勒冈荷包牡丹	Oregon Bleedingheart	T2151 <i>Dicentra oregana</i>
E LI	鳄梨	American Avocado	T4731 <i>Persea americana</i> [Syn. <i>Persea gratissima</i>]
E MEI CUI QUE HUA	峨眉翠雀花	Emei Larkspur	T2081 <i>Delphinium omeiense</i>
E MEI GE	峨眉葛	Emei Kudzuvine	T5316 <i>Pueraria omeiensis</i>
E MEI JUAN BAI	峨眉卷柏	Emei Spikemoss*	T5864 <i>Selaginella omeiensis</i>
E MEI TANG SONG CAO	峨眉唐松草	Emei Meadowrue	T6402 <i>Thalictrum omeiense</i>
E MEI YE HUANG LIAN	峨眉野黄连	Emei Mountain Goldthread	T1669 <i>Coptis omeiensis</i>
E RONG TENG	鹅绒藤	Chinese Swallowwort	T1954 <i>Cynanchum chinense</i>
E RONG WEI LING CAI	鹅绒委陵菜	Silverweed Cinquefoil	T5179 <i>Potentilla anserina</i>
E SHEN	峨参	Woodland Beakchervil	T0529 <i>Anthriscus sylvestris</i>
E SUN ZI TAN	娥孙紫檀	Osun Padauk*	T5304 <i>Pterocarpus osun</i>
E XI XIANG CHA CAI	鄂西香茶菜	Henry Rabdosia	T3493 <i>Isodon henryi</i>
E ZHANG CAO	鹅掌草	Flaccid Anemone	T0467 <i>Anemone flaccida</i>
E ZHANG TENG	鹅掌藤	Scandent Schefflera	T5781 <i>Schefflera arboricola</i>
EN GE MU	恩格木		T4489 <i>Ongokea gore</i>
ER CAO	耳草	Auricled Hedyotis	T3123 <i>Hedyotis auricularia</i>
ER CHA GOU TENG	儿茶钩藤	Gambier Gambirplant	T6615 <i>Uncaria gambir</i>
ER CHI XIANG KE KE	二齿香科科	Twodenntate Germander	T6359 <i>Teucrium bidentatum</i>
ER CI YUN SHI	二雌云实*	Digyna Caesalpinia*	T1102 <i>Caesalpinia digyna</i>
ER DUN ZHUANG HUA JIAO	二盾状花椒	Twopetaline Pricklyash*	T6875 <i>Zanthoxylum dipetalum</i>
ER GOU HUANG QI	二沟黄芪	Bisulcate Milkvetch*	T0787 <i>Astragalus bisulcatus</i>
ER JIAO DUO JIA ZAO	二角多甲藻		T4712 <i>Peridinium bipes</i>
ER QI GOU YA HUA	二岐狗牙花	Dichotomous Ervatamia*	T2441 <i>Ervatamia dichotoma</i>
ER RUI HE LIAN DOU	二蕊荷莲豆		T2272 <i>Drymaria diandra</i> [Syn. <i>Drymaria cordata</i> ssp. <i>diandra</i>]
ER RUI ZI SU	二蕊紫苏		T1622 <i>Collinsonia canadensis</i>
ER SE HUA SHU WEI CAO	二色花鼠尾草	Twocolor-flower Sage*	T5670 <i>Salvia dichroantha</i>
ER SHI RUI SHANG LU	二十蕊商陆	Icosandrous Pokeweed*	T4865 <i>Phytolacca icosandra</i>
ER XING JI XUE TENG	耳形鸡血藤	Auriculate Millettia*	T4233 <i>Millettia auriculata</i>
ER XING JIN HE HUAN	耳形金合欢	Auriculate Acacia	T0017 <i>Acacia auriculaeformis</i>
ER XING LIU ZU JUE	耳形瘤足蕨	Auriform Plagiogyria	T5000 <i>Plagiogyria stenoptera</i>
ER XING YANG ER LAN	耳形羊耳兰	Auriculate Twayblade*	T3861 <i>Liparis auriculata</i>
ER YE BAO YING SU	二叶苞罌粟	Celandine Poppy	T6195 <i>Stylophorum diphyllum</i>
ER YE NIU PI XIAO	耳叶牛皮消	Auriculate Swallowwort	T1952 <i>Cynanchum auriculatum</i>
ER YI TUO BAO DI QIAN	二翼托苞地钱	Twowing Palea Liverwort*	T4108 <i>Marchantia paleacea</i> var. <i>diptera</i>
ER ZHUANG BAO CHUN HUA	耳状报春花	Auricula	T5197 <i>Primula auricula</i>
FA CAI	发菜	Hair Vegetable*	T4438 <i>Nostoc flagelliforme</i>
FA GUO CHENG LIU	法国怪柳	French Tamarisk	T6287 <i>Tamarix gallica</i>
FA GUO JIN QUE ER	法国金雀儿	French Broom	T1989 <i>Cytisus monspessulanus</i>
FA GUO QIANG WEI	法国蔷薇	French Rose	T5565 <i>Rosa gallica</i>
FA KANG WU TOU	法康乌头	Falcon Monkshood*	T0092 <i>Aconitum falconeri</i>
FAN BAI CAO	翻白草	Discolor Cinquefoil	T5182 <i>Potentilla discolor</i>
FAN HUA ZHI XIE MU	繁花止泻木*	Purplequeen Holarrhena*	T3266 <i>Holarrhena floribunda</i>
FAN LI ZHI	番荔枝	Custard Apple	T0513 <i>Annona squamosa</i>
FAN MA	番麻	American Agave	T0215 <i>Agave americana</i>
FAN MU GUA	番木瓜	Papaya Fruit	T1205 <i>Carica papaya</i>
FAN MU GUA YE	番木瓜叶	Papaya Leaf	T1206 <i>Carica papaya</i>

FAN QIE	番茄	Tomato	T3962 <i>Lycopersicon esculentum</i>
FAN SHI LIU GAN	番石榴干	Guava Unripe Fruit	T5265 <i>Psidium guajava</i>
FAN SHI LIU PI	番石榴皮	Guava Bark	T5266 <i>Psidium guajava</i>
FAN SHI LIU YE	番石榴叶	Guava Leaf	T5267 <i>Psidium guajava</i>
FAN SHI LIU ZI	番石榴籽	Guava Seed	T5268 <i>Psidium guajava</i>
FAN XIE YE	番泻叶	Narrowleaf Senna Leaf	T1230 <i>Cassia angustifolia</i>
FANG FENG	防风	Divaricate Saposhnikovia	T5727 <i>Saposhnikovia divaricata</i> [Syn. <i>Ledebouriella seseloides</i>]
FANG JI	防己粉防己)	Fourstamen Stephania	T6136 <i>Stephania tetrandra</i>
FANG JI YE BA QIA	防己叶菝葜	Gansu Greenbrier	T5980 <i>Smilax menispermoidea</i>
FANG XIANG BAI ZHU	芳香白珠	Fragrant Gaultheria	T2891 <i>Gaultheria fragrantissima</i>
FANG XIANG DUI XIN JU	芳香堆心菊	Fragrant Sneezeweed*	T3133 <i>Helenium aromaticum</i>
FANG XIANG JIANG	芳香姜	Aromatic Ginger	T6907 <i>Zingiber aromaticum</i>
FANG XIANG MU BAN SHU	芳香木瓣树*	Aromatic Xylopia*	T6850 <i>Xylopia aromatica</i>
FEI CAI	费菜	Aizoon Stonecrop	T5850 <i>Sedum aizoon</i>
FEI CHENG FEI PENG	费城飞蓬	Philadelphia Fleabane	T2424 <i>Erigeron philadelphicus</i>
FEI CHENG SUAN JIANG	费城酸浆	Philadelphia Groundcherry*	T4853 <i>Physalis philadelphica</i>
FEI E TENG	飞蛾藤	Racemose Porana	T5167 <i>Porana racemosa</i>
FEI HOU MIAN BAO GUO	肥厚面包果*	Fleshy Artocarpus*	T0709 <i>Artocarpus altilis</i>
FEI JI AI JIAO	斐济崖椒	Fiji Fagara*	T2655 <i>Fagara vitiensis</i>
FEI JI CAO	飞机草	Fragrant Eupatorium	T2567 <i>Eupatorium odoratum</i>
FEI JI TENG HUANG	斐济藤黄*	Fiji Garcinia*	T2871 <i>Garcinia pseudoguttifera</i>
FEI LI GUI LI	菲利桂栎	Mocketprivet-like Oak	T5376 <i>Quercus phillyraeoides</i>
FEI LIAN	飞廉	Curly Bristlethistle	T1200 <i>Carduus crispus</i>
FEI LONG ZHANG XUE	飞龙掌血	Asiatic Toddalia	T6471 <i>Toddalia asiatica</i> [Syn. <i>Toddalia aculeata</i> ; <i>Paullinia asiatica</i>]
FEI LV BIN LUO HAN SONG	菲律宾罗汉松	Philippine Podocarpus	T5051 <i>Podocarpus philippinensis</i>
FEI LV BIN PIAO SHU	菲律宾朴树	Philippine Nettle tree	T1298 <i>Celtis philippinensis</i>
FEI LV BIN QIAN JIN BA	菲律宾千斤拔*	Philippine Flemingia	T4260 <i>Moghania philippinensis</i>
FEI LV BIN QIAN LI GUANG	菲律宾千里光*	Philippine Groundsel*	T5896 <i>Senecio philippicus</i>
FEI LV BIN ROU DOU KOU	菲律宾肉豆蔻	Antao Nutmeg	T4354 <i>Myristica simiarum</i>
FEI LV BIN SHI ZI	菲律宾石梓*	Philippine Bushbeech*	T3025 <i>Gmelina philippensis</i>
FEI NI JI CI BAI	腓尼基刺柏	Poienician Juniper	T3593 <i>Juniperus phoenicea</i>
FEI SHU	榷树	Torreya*	T6477 <i>Torreya grandis</i>
FEI YAN CAO	飞燕草	Rocket Consolida	T1645 <i>Consolida ajacis</i> [Syn. <i>Delphinium ajacis</i>]
FEI YI DIAN HONG	绯一点红*	Red Tasseflower*	T2356 <i>Emilia coccinea</i>
FEI YUE GUO	费约果	Pineapple Guava	T2693 <i>Feijoa sellowiana</i>
FEI ZAO CAO	肥皂草	Soapwort	T5726 <i>Saponaria officinalis</i>
FEI ZHOU BAI ZI LIAN	非洲百子莲*	African Lily	T0209 <i>Agapanthus africanus</i>
FEI ZHOU BI QIAO JIANG	非洲闭鞘姜	African Costus*	T1754 <i>Costus afer</i>
FEI ZHOU FAN LI ZHI	非洲番荔枝	African Custard Apple*	T3237 <i>Hexalobus crispiflorus</i>
FEI ZHOU FANG JI	非洲防己	Calumba Root	T3559 <i>Jateorhiza palmata</i>
FEI ZHOU GAN LAN	非洲橄榄	African Olive*	T4486 <i>Olea africana</i>
FEI ZHOU GE MU	非洲格木	African Erythrophleum	T2482 <i>Erythrophleum africanum</i>
FEI ZHOU GOU TENG	非洲钩藤*	African Gambirplant*	T6605 <i>Uncaria africana</i>
FEI ZHOU HUANG GUA	非洲黄瓜*	African Cucumber*	T1873 <i>Cucumis africanus</i>
FEI ZHOU HUANG GUO MU	非洲黄果木	African Mammey Apple	T4092 <i>Mammea africana</i>
FEI ZHOU HUANG TAN	非洲黄檀	African Rosewood	T2004 <i>Dalbergia melanoxylon</i>
FEI ZHOU JIAN XUE FENG HOU	非洲见血封喉	African Antiaris*	T0532 <i>Antiaris africana</i>
FEI ZHOU KU MU	非洲苦木	African Quassia*	T5369 <i>Quassia africana</i>
FEI ZHOU LUO LE	非洲罗勒	African Basil*	T4474 <i>Ocimum kilimandscharicum</i>
FEI ZHOU MAO ZHU MU	非洲帽柱木*	African Mitragyna*	T4255 <i>Mitragyna africanus</i>
FEI ZHOU WA	非洲蛙	African frog	T0207 African frog

FEI ZHOU ZHI XIE MU	非洲止泻木*	African Holarrhena*	T3262 <i>Holarrhena africana</i>
FEI ZHOU ZI WEI	非州紫葳	Africa Trumpet creeper*	T4422 <i>Newbouldia laevis</i>
FEN BA JIAO	粉芭蕉	Plantain Banana	T4330 <i>Musa paradisiaca</i>
FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG	粉芭蕉杂交种植变种*	Plantain Banana Cultivariaty*	T4332 <i>Musa x paradisiaca</i> cultivar
FEN CHA DANG GUI	分叉当归	Furcate Angelica*	T0481 <i>Angelica furcijuga</i>
FEN CHA MA QIAN ZI	分叉马钱子*	Divaricate Poisonnut*	T6170 <i>Strychnos divaricans</i>
FEN GE	粉葛	Thomson Kudzu vine	T5314 <i>Pueraria lobata</i> var. <i>thomsonii</i>
FEN HONG SE XI FAN LIAN	粉红色西番莲	May-apple	T4666 <i>Passiflora incarnata</i>
FEN JI DU	粪箕笃	Long Stephania	T6131 <i>Stephania longa</i>
FEN LAI SHI HU	芬来石斛	Findley Dendrobium*	T2103 <i>Dendrobium findleyanum</i>
FEN LIU JUN	粉瘤菌	Wolfs-milk Slime	T3960 <i>Lycogala epidendrum</i>
FEN LU ZHU YANG YANG	粉绿猪殃殃	Glaucous Bedstraw*	T2831 <i>Galium glaucum</i>
FEN NIE CONG TOU	分蘖葱头	Tillering Onion	T0312 <i>Allium cepa</i> var. <i>agrogatum</i>
FEN ROU CENG KONG JUN	粉肉层孔菌		T2747 <i>Fomes cajanderi</i>
FEN SHI TANG SONG CAO	芬氏唐松草	Fendler's Meadowrue	T6383 <i>Thalictrum fendleri</i>
FEN TUAN HUA	粉团花	Paniculate Hydrangea	T3306 <i>Hydrangea paniculata</i>
FEN ZHI PO JU	分枝珀菊*	Ramose Amberboa*	T0394 <i>Amberboa ramosa</i>
FENG CHAO CAO	蜂巢草	Rough Leucas	T3779 <i>Leucas aspera</i>
FENG CHAO MI ZI LAN	蜂巢米仔兰*	Foveolate Aglaia*	T0236 <i>Aglaia foveolata</i>
FENG CHENG JI XUE TENG	丰城鸡血藤	Hirsute Millettia	T4239 <i>Millettia nitida</i> var. <i>hirsutissima</i>
FENG DOU CAI	蜂斗菜	Japanese Butterbur	T4740 <i>Petasites japonicus</i>
FENG DU	蜂毒	Apisin	T0539 <i>Apis cerana</i>
FENG GUA	风瓜	Entireleaf Gymnopetalum	T3081 <i>Gymnopetalum integrifolium</i>
FENG HUANG MU	凤凰木	Flamboyant tree	T2060 <i>Delonix regia</i>
FENG JIAO	蜂胶	Propolis	T0543 <i>Apis mellifera ligustica</i>
FENG LI	风梨	Pineapple	T0444 <i>Ananas comosus</i>
FENG LING CAO	风铃草	Canterbury bells	T1156 <i>Campanula medium</i>
FENG LUN CAI	风轮菜	Chinese Clinopodium	T1573 <i>Clinopodium chinense</i>
FENG MAO JU	风毛菊	Wildhair daisy	T5756 <i>Saussurea japonica</i>
FENG MI	蜂蜜	Honey	T0540 <i>Apis cerana</i>
FENG RU	蜂乳	Royal Jelly	T0541 <i>Apis cerana</i>
FENG WEI CAO	凤尾草	Chinese Brake	T5295 <i>Pteris multifida</i>
FENG WEI CHA	凤尾茶		T2340 <i>Elsholtzia bodinieri</i>
FENG WEI JUE	凤尾蕨	Nervous Brake	T5288 <i>Pteris cretica</i> var. <i>nervosa</i> [Syn. <i>Pteris nervosa</i>]
FENG WEI PA SHAN HU	凤尾爬山虎	Mary Arthromeris	T0708 <i>Arthromeris mairei</i> [Syn. <i>Polypodium mairei</i>]
FENG XIAN	凤仙	Garden Balsam	T3410 <i>Impatiens balsamina</i>
FENG XIAN HUA	凤仙花	Garden Balsam Flower	T3411 <i>Impatiens balsamina</i>
FENG XIANG JI SHENG	枫香寄生	Flatshoot Mistletoe	T6774 <i>Viscum articulatum</i>
FENG XIANG SHU	枫香树	Beautiful Sweetgum Leaf	T3866 <i>Liquidambar formosana</i> [Syn. <i>Liquidambar taiwaniana</i>]
FENG XIANG SHU YE	风箱树叶	Common Butterbush	T1316 <i>Cephalanthus occidentalis</i>
FENG XIN ZI	风信子	Common Hyacinth	T3297 <i>Hyacinthus orientalis</i>
FENG YA JUE	风丫蕨	Japanese Coniogramme	T1640 <i>Coniogramme japonica</i> [Syn. <i>Hemionitis japonica</i>]
FENG YU HUA	风雨花	Rosepink Zephyrily	T6904 <i>Zephyranthes grandiflora</i> [Syn. <i>Zephyranthes carinata</i>]
FO JIA CAO	佛甲草	Linear Stonecrop	T5856 <i>Sedum lineare</i> [Syn. <i>Sedum obtuso-lineare</i>]
FO SHOU	佛手	Fleshfingered Citron	T1501 <i>Citrus medica</i> var. <i>sarcodactylis</i>
FU AN	富桉*	Dives Eucalyptus*	T2508 <i>Eucalyptus dives</i>

FU CHUI FE LAO JU	俯垂弗劳菊	Tarbush	T2740 <i>Flourensia cernua</i>
FU ER JIA CE JIN ZHAN HUA	伏尔加侧金盏花	Volga Adonis	T0192 <i>Adonis wolgensis</i>
FU FANG TENG	扶芳藤	Forture Euonymus	T2540 <i>Euonymus fortunei</i>
FU JI NI YA DI SUN	弗吉尼亚地笋*	Bugleweed	T3982 <i>Lycopus virginicus</i>
FU JI NI YA GOU JI JUE	弗吉尼亚狗脊蕨	Virginia Chain Fern	T6832 <i>Woodwardia virginica</i>
FU JIAN XI XIN	福建细辛	Fukien Wildginger	T0727 <i>Asarum fukienense</i>
FU JU	福橘	Blessing Citrus*	T1515 <i>Citrus tangemna</i>
FU KANG A WEI GEN	阜康阿魏根	Fukang Giantfennel Root	T2701 <i>Ferula fukanensis</i>
FU KE CI TONG	福克刺桐	Folk Coralbean*	T2465 <i>Erythrina folkersii</i>
FU LANG HUA	扶郎花	Flameray Gerbera	T2951 <i>Gerbera jamesonii</i>
FU LEI SHI DU JUAN HUA	福雷氏杜鹃花	Pere L. F. Faurie's Rhododendron	T5509 <i>Rhododendron fauriei</i>
FU LING	茯苓	Indian Bread	T5169 <i>Poria cocos</i>
FU MAO SHAN DOU GEN	覆毛山豆根	Hirsute Euchresta*	T2529 <i>Euchresta strigillosa</i>
FU MU	福木		T2877 <i>Garcinia subelliptica</i>
FU NING TENG	富宁藤		T4645 <i>Parepigynum funingense</i>
FU PEN ZI	覆盆子	Red-and-Yellow Garden Raspberry	T5593 <i>Rubus idaeus</i>
FU PING	浮萍	Common Duckwood	T3738 <i>Lemna minor</i>
FU RONG JU GEN	芙蓉菊根	Chinese Crossostephium Root	T1812 <i>Crossostephium chinense</i>
FU RUI ER JUE	福瑞耳蕨*	Faurie Shield Fern*	T5132 <i>Polystichum fauriei</i>
FU RUI ZI WEI	福瑞紫薇*	Faurie Crapemyrtle*	T3669 <i>Lagerstroemia fauriei</i>
FU SANG HUA	扶桑花	Chinese Hibiscus Flower	T3242 <i>Hibiscus rosa-sinensis</i>
FU SANG YE	扶桑叶	Chinese Hibiscus Leaf	T3243 <i>Hibiscus rosa-sinensis</i>
FU SHE SONG	辐射松	Montery Pine	T4920 <i>Pinus radiata</i>
FU SHI MA QIAN ZI*	福氏马钱子*	Froes Poisonnut*	T6173 <i>Strychnos froesii</i>
FU SHOU CAO	福寿草	Amur Adonis	T0184 <i>Adonis amurensis</i>
FU SI TE JIU JIE	福斯特九节*	Forster Ninenode*	T5275 <i>Psychotria forsteriana</i>
FU YE RONG	腐叶榕*	Septic Fig*	T2726 <i>Ficus septica</i>
FU YE YAN ZI CAI	浮叶眼子菜	Floatingleaf Pondweed	T5176 <i>Potamogeton natans</i>
FU YE ZE LAN	复叶泽兰	Compositeleaf Eupatorium*	T2556 <i>Eupatorium compositifolium</i>
FU ZHOU SHU YU	福州薯蓣	Foochow Yam	T2197 <i>Dioscorea futschauensis</i>
FU ZHUANG SHUI GUI JIAO	辐状水鬼蕉*	Rotate Hymenocallis*	T3321 <i>Hymenocallis rotata</i>
FU ZI	附子	Prepared Common Monkshood	T0083 <i>Aconitum carmichaeli</i>
		Daughter Root	
GAN	柑	Chachi Citrus	T1471 <i>Citrus chachiensis</i>
GAN CAO	甘草	Ural Licorice	T3022 <i>Glycyrrhiza uralensis</i>
GAN DI HUANG	干地黄	Adhesive Rehmannia Dried Root	T5445 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]
			T6903 <i>Zephyranthes candida</i>
GAN FENG CAO	肝风草	Autumn Zephyrlily	
GAN GE TENG GEN	甘葛藤根	Thomson Kudzuvine Root	T5320 <i>Pueraria thomsonii</i>
GAN HUA DOU	干花豆	Common Fordia	T2752 <i>Fordia cauliflora</i>
GAN JIANG	干姜	Common Ginger Dried Rhizome	T6909 <i>Zingiber officinale</i>
GAN LAN	甘蓝	Cabbage	T1017 <i>Brassica oleracea</i> var. <i>capitata</i>
GAN LAO JI GU CHANG SHAN	干酪鸡骨常山	Boone Alstonia	T0367 <i>Alstonia boonei</i>
GAN PI	柑皮	Chachi Citrus Pericarp	T1472 <i>Citrus chachiensis</i>
GAN QING TIE XIAN LIAN	甘青铁线莲	Tangut Clematis	T1546 <i>Clematis tangutica</i>
GAN QING WU TOU	甘青乌头	Tangut Monkshood	T0137 <i>Aconitum tanguticum</i>
GAN SHU	甘薯	Sweet Potato	T3447 <i>Ipomoea batatas</i> [Syn. <i>Convolvulus batatas</i>]
			T4386 <i>Nardostachys chinensis</i>
GAN SONG	甘松	Chinese Nardostachys	
GAN SU BEI MU	甘肃贝母	Przewalsk Fritillary	T2792 <i>Fritillaria przewalskii</i>
GAN SU HUAI SHU	甘肃槐树	Thickfruit Sophora	T6040 <i>Sophora pachycarpa</i>
GAN SU HUANG QIN	甘肃黄芩	Rehder Skullcap;	T5843 <i>Scutellaria rehderiana</i>
GAN SU SHAN ZHA	甘肃山楂	Kansu Hawthorn	T1771 <i>Crataegus kansuensis</i>

GAN SUI	甘遂	Kansui Euphorbia	T2596 <i>Euphorbia kansui</i>
GAN WAN WU TOU	赣皖乌头	Finet Monkshood	T0094 <i>Aconitum finetianum</i>
GAN XI SHU WEI CAO	甘西鼠尾草	Przewalsk Sage	T5688 <i>Salvia przewalskii</i>
GAN ZHE	甘蔗	Sweetcane Culm	T5642 <i>Saccharum sinensis</i>
GANG BAN GUI GEN	杠板归根	Perfoliate Knotweed Root	T5111 <i>Polygonum perfoliatum</i>
GANG GUO HE ZHI XIE MU	刚果河止泻木*	Congo Holarrhena*	T3264 <i>Holarrhena congolensis</i>
GANG GUO JIAN XUE FENG HOU	刚果见血封喉	Congo Antiaris*	T0534 <i>Antiaris welwitschii</i>
GANG GUO LUO FU MU	刚果萝芙木	Obscure Devilpepper*	T5439 <i>Rauwolfia obscura</i>
GANG MAO CHENG LIU	刚毛怪柳	Kashgar Tamarisk	T6288 <i>Tamarix hispida</i>
GANG MAO TENG SHAN LIU	刚毛藤山柳	Hisped Vineclethra	T1549 <i>Clematoclethra scanden</i>
GANG SONG	岗松	Shrubby Baeckea	T0853 <i>Baeckea frutescens</i>
GANG SONG	刚松	Northern Pitch Pine	T4922 <i>Pinus rigida</i>
GAO AO DING ZAO	高凹顶藻	High Concave-top Alga*	T3716 <i>Laurencia elata</i>
GAO BAO CHUN	高报春	Oxlip	T5198 <i>Primula elatior</i>
GAO BEN	藁本	Chinese Ligusticum	T3824 <i>Ligusticum sinense</i>
GAO CHU	高樗	High Ailanthus*	T0256 <i>Ailanthus excelsa</i>
GAO CHUN HUANG JU	高春黄菊	Tall Camomile	T0520 <i>Anthemis altissima</i>
GAO CONG ZHEN ZHU MEI	高丛珍珠梅	Tree Falsespiraea	T6051 <i>Sorbaria arborea</i>
GAO DA CI BAI	高大刺柏	High Juniper*	T3587 <i>Juniperus excelsa</i>
GAO DA CUI QUE HUA	高大翠雀花	High Larkspur*	T2075 <i>Delphinium excelsum</i>
GAO DA HU JIAO	高大胡椒	Pepper-tree	T4025 <i>Macropiper excelsum</i>
GAO DA SHAN LAN	高大山榄*		T5001 <i>Planchonia grandis</i>
GAO DANG GUI	高当归*	High Ligusticum*	T3821 <i>Ligusticum elatum</i>
GAO DI CHA SHAN ZHU ZI	告地查山竹子*	Gaudicha Garcinia*	T2855 <i>Garcinia gaudichaudii</i>
GAO DI DAN CAO	高地胆草	High Elephantfoot*	T2332 <i>Elephantopus elatus</i>
GAO FEI YAN CAO	高飞燕草	Alpine Larkspur	T2074 <i>Delphinium elatum</i>
GAO GUI BO LUO MI	高贵波罗蜜*	Noble Artocarpus*	T0718 <i>Artocarpus nobilis</i>
GAO GUI CHUN HUANG JU	高贵春黄菊*	Common Chamomile	T0523 <i>Anthemis nobilis</i>
GAO GUI JIA ZI CAO	高贵假紫草*	Noble Arnebia*	T0650 <i>Arnebia nobilis</i>
GAO GUI YOU MU YUN XIANG	高贵柚木芸香*		T6322 <i>Teclea nobilis</i>
GAO HAI CONG	高海葱		T6646 <i>Urginea altissima</i>
GAO HONG JIN	高红槿	Tall Hibiscus	T3239 <i>Hibiscus elatus</i>
GAO HUANG LU SANG	高黄绿桑	Iroko Fustic-tree	T1376 <i>Chlorophora excelsa</i>
GAO HUANG QIN	高黄芩	Tall Skullcap	T5831 <i>Scutellaria altissima</i>
GAO HUI MAO DOU	高灰毛豆	High Tephrosia*	T6334 <i>Tephrosia elata</i>
GAO JIA SUO BAI XIAN	高加索白鲜	Caucasian Pittany*	T2166 <i>Dictamnus caucasicus</i>
GAO JIA SUO LAN PEN HUA	高加索蓝盆花*	Caucasian Scabious*	T5774 <i>Scabiosa caucasica</i>
GAO JIA SUO LIN MAO JUE	高加索鳞毛蕨	Caucasian Buckler-fern*	T2278 <i>Dryopteris caucasica</i>
GAO JIA SUO LONG DAN	高加索龙胆*	Caucasian Gentian*	T2907 <i>Gentiana caucasa</i>
GAO JIA SUO WU TOU	高加索乌头	Eastern Monkshood	T0121 <i>Aconitum orientale</i>
GAO JIA SUO YING SU	高加索罂粟	Caucasian Poppy*	T4624 <i>Papaver caucasicum</i>
GAO JIA SUO ZI JIN	高加索紫堇	Caucasian Corydalis*	T1711 <i>Corydalis caucasica</i>
GAO KA FEI	高咖啡	High Coffee*	T1609 <i>Coffea excelsa</i>
GAO LIANG	高粱	Sorghum	T6056 <i>Sorghum vulgare</i>
GAO LIANG HONG QU	高粱红曲*	Red Koji; Angkak	T4270 <i>Monascus kaoliang</i>
GAO LIANG JIANG	高良姜	Lesser Galangal	T0359 <i>Alpinia officinarum</i>
GAO MEI YING BAN	高梅缨瓣	Gaumei Fringe-petal*	T1811 <i>Crossopetalum gaumeri</i>
GAO SHAN BIAN ZHI SHI SONG	高山扁枝石松	Alpine Clubmoss*	T3964 <i>Lycopodium alpinum</i> [Syn. <i>Diphasiastrum alpinum</i>]
GAO SHAN CHA BIAO	高山茶藨*	Alpine Currant	T5544 <i>Ribes alpinum</i>
GAO SHAN HUA JIAO	高山花椒	Alpine Pricklyash	T6881 <i>Zanthoxylum hamiltonianum</i>
GAO SHAN HUANG HUA	高山黄华	Alplne Thermopsis	T6424 <i>Thermopsis alpina</i>

GAO SHAN HUO RONG CAO	高山火绒草	Alpine Edelweiss	T3749 <i>Leontopodium alpinum</i>
GAO SHAN LUO HAN SONG	高山罗汉松	Alpine Totara	T5049 <i>Podocarpus nivalis</i>
GAO SHAN TANG SONG CAO	高山唐松草	Alpine Meadowrue	T6373 <i>Thalictrum alpinum</i>
GAO SHAN TIAO JUE	高山条蕨	Alpine Oleandra	T4488 <i>Oleandra wallichii</i>
GAO SHAN YAN SHEN	高山岩参	Alpine Sowthistle	T1414 <i>Cicerbita alpina</i>
GAO SHAN YING SU	高山罌粟	Alpine Poppy	T4621 <i>Papaver alpinum</i>
GAO WU TOU	高乌头	Tall Monkshood	T0130 <i>Aconitum sinomontanum</i>
GAO YI ZHI HUANG HUA	高一枝黄花	Canadian Goldenrod	T6022 <i>Solidago altissima</i>
GAO YUAN TANG SONG CAO	高原唐松草	Highland Meadowrue	T6376 <i>Thalictrum cultratum</i>
GAO ZE LAN	高泽兰	Tall Eupatorium	T2550 <i>Eupatorium altissimum</i>
GE BI TIAN MEN	戈壁天门冬	Desertliving Asparagus*	T0750 <i>Asparagus gobicus</i>
GE CAI KE SHI ZI JIN	格蔡科氏紫堇	Gortschakov Corydalis*	T1717 <i>Corydalis gortschakovii</i>
GE CONG	苍葱	Longroot Onion	T0324 <i>Allium victorialis</i>
GE GEN	葛根	Lobed Kudzuvine Root	T5313 <i>Pueraria lobata</i> [Syn. <i>Pueraria thunbergiana</i> ; <i>Pueraria pseudohirsuta</i>]
GE LI FEI SI SHI DA GONG LAO	格里菲思十大功劳	Griffith Mahonia	T4065 <i>Mahonia griffithii</i>
GE LI FEI SI TENG HUANG	格里菲思藤黄*	Griffith Garcinia*	T2856 <i>Garcinia griffithii</i>
GE LU ZI	葛缕子	Caraway	T1217 <i>Carum carvi</i>
GE LUN BI YA BA DOU	哥伦比亚巴豆	Colombia Croton*; Almizcillo	T1855 <i>Croton schiedeanus</i>
GE LUN BI YA MU BAN SHU	哥伦比亚木瓣树*	Columbia Xylopia*	T6852 <i>Xylopia columbiana</i>
GE NA XIANG	哥纳香	Cheliensis Goniothalamus	T3044 <i>Goniothalamus cheliensis</i>
GE SHAN XIAO	隔山消	Wilford Swallowwort	T1964 <i>Cynanchum wilfordii</i> [Syn. <i>Cynoctonum wilfordii</i>]
GE SHANG TING CHANG	葛上亭长	Bean Blister Beetle	T2384 <i>Epicauta gorhami</i>
GE SHI SHU WEI CAO	格氏鼠尾草*	Gregg Sage*	T5674 <i>Salvia greggii</i>
GE XUN	葛覃	Japanese Balanophora	T0860 <i>Balanophora japonica</i>
GE YANG XI FAN LIAN	革样西番莲*	Coriaceous Passionflower*	T4664 <i>Passiflora coriacea</i>
GE YE MI HOU TAO	革叶猕猴桃	Coriaceousleaf Actinidia	T0165 <i>Actinidia rubricaulis</i> var. <i>coriacea</i>
GE ZHI HUA DI QIAN	革质花地钱		T1703 <i>Corsinia coriandrina</i>
GONG BU WU TOU	工布乌头	Gongbo Monkshood	T0107 <i>Aconitum kongboense</i>
GONG GA SHAN WU TOU	贡嘎山乌头	Konka Mountain Monkshood	T0112 <i>Aconitum liljestrandii</i>
GONG XING MA DOU LING	弓形马兜铃	Bow-shaped Dutchmanspipe*	T0621 <i>Aristolochia arcuata</i>
GOU GU SHU PI	枸骨树皮	Chinese Holly Bark	T3389 <i>Ilex cornuta</i>
GOU GU YE	枸骨叶	Chinese Holly Leaf	T3390 <i>Ilex cornuta</i>
GOU JI	枸棘	Cochinchina Cudrania	T1884 <i>Cudrania cochinchinensis</i>
GOU JU	枸橘	Trifoliolate-orange	T5137 <i>Poncirus trifoliata</i>
GOU JU HE	枸橘核	Trifoliolate-orange Seed	T5138 <i>Poncirus trifoliata</i>
GOU JU YE	枸橘叶	Trifoliolate-orange Leaf	T5139 <i>Poncirus trifoliata</i>
GOU JU ZHI KE	枸橘枳壳	Trifoliolate-orange Unripe Fruit	T5140 <i>Poncirus trifoliata</i>
GOU JU ZHI SHI	枸橘枳实	Trifoliolate-orange Young Fruit	T5141 <i>Poncirus trifoliata</i>
GOU MAO QIAN CAO	钩毛茜草	Hookedhair Madder	T5582 <i>Rubia oncotricha</i>
GOU QI GEN PI	枸杞根皮(地骨皮)	Chinese Wolfberry Root-bark	T3956 <i>Lycium chinense</i>
GOU QI XIAO BO	枸杞小檗	Medlar Barberry*	T0921 <i>Berberis zycium</i>
GOU QI YE	枸杞叶	Chinese Wolfberry Leaf	T3957 <i>Lycium chinense</i>
GOU QI ZI	枸杞子	Chinese Wolfberry Fruit	T3958 <i>Lycium chinense</i>
GOU ROU	狗肉	Dog Meat	T1170 <i>Canis familiaris</i>
GOU SHE CAO	狗舌草	Kirilow Groundsel Herb	T6330 <i>Tephrosia kirilowii</i> [Syn. <i>Senecio integrifolius</i> var. <i>fauriei</i>]
GOU SHI HUA	狗屎花	Chinese Forgetmenot	T1967 <i>Cynoglossum amabile</i>
GOU SHU	构树	Common Papermulberry	T1032 <i>Broussonetia papyrifera</i>
GOU SHU BAI PI	构树白皮	Common Papermulberry Bast*	T1033 <i>Broussonetia papyrifera</i>
GOU SHU GEN	构树根	Common Papermulberry Root*	T1034 <i>Broussonetia papyrifera</i>
GOU SHU GUO	构树果	Common Papermulberry Fruit	T1035 <i>Broussonetia papyrifera</i>

GOU TENG	钩藤	Sharpleaf Gambirplant	T6629 <i>Uncaria rhynchophylla</i> [Syn. <i>Nauclea rhynchophylla</i>]
GOU WEN	钩吻	Graceful Jessamine	T2897 <i>Gelsemium elegans</i>
GOU XIN	狗心	Dog Heart	T1171 <i>Canis familiaris</i>
GOU ZHI TENG	钩枝藤	Ancistrocladus*	T0450 <i>Ancistrocladus korupensis</i>
GOU ZHUANG HU JIAO	钩状胡椒*	Hooked Pepper*	T4928 <i>Piper aduncum</i>
GOU ZHUANG SHI HU	钩状石斛	Hooked Dendrobium	T2094 <i>Dendrobium aduncum</i>
GU BA LUO FU MU	古巴萝芙木	Cuba Devilpepper	T5432 <i>Rauwolfia cubana</i>
GU CHENG MEI GUI SHU	古城玫瑰树	Elliptical Ochrosia	T4469 <i>Ochrosia elliptica</i>
GU CHUI SHI HU	鼓槌石斛	Yellowbow Dendrobium	T2099 <i>Dendrobium chrysotoxum</i>
GU JIE CAO	骨节草	Marsh Horsetail	T2409 <i>Equisetum palustre</i>
GU JING CAO	谷精草	Pipewart	T2434 <i>Eriocaulon buergerianum</i>
GU KE	古柯	Coca Shrub	T2491 <i>Erythroxylum coca</i>
GU LIN XUE DAN	古藜雪胆	Gulin Hemsleya	T3210 <i>Hemsleya penxianensis</i> var. <i>gulinensis</i>
GU LIN YE LIAN	古藜野连	Gulin Goldthread*	T1666 <i>Coptis gulinensis</i>
GU SUI BU	骨碎补	Fortune's Drynaria Rhizome	T2273 <i>Drynaria fortunei</i>
GU TING HUA	孤挺花	Jersey Lily	T0390 <i>Amaryllis belladonna</i>
GU TING HUA ZA JIAO ZHONG	孤挺花杂交种	Jersey Lily Hybrid	T0391 <i>Amaryllis belladonna</i> [hybrida]
GUA DI	瓜蒂	Muskmelon Fruit Pedicel	T1876 <i>Cucumis melo</i>
GUA FU MU	瓜馥木	Oldham Fissistigma	T2735 <i>Fissistigma oldhamii</i> [Syn. <i>Melodorum oldhamii</i>]
GUA JIN DENG	挂金灯	Franchet Groundcherry	T4846 <i>Physalis alkekengi</i> var. <i>franchetii</i>
GUA JIN DENG GEN	挂金灯根	Franchet Groundcherry Root	T4847 <i>Physalis alkekengi</i> var. <i>franchetii</i>
GUA LOU	栝楼	Mongolian Snakegourd	T6510 <i>Trichosanthes kirilowii</i>
GUA LOU ZI	栝楼子	Mongolian Snakegourd Seed	T6511 <i>Trichosanthes kirilowii</i>
GUA MU	瓜木	Planeleaf Alangium	T0285 <i>Alangium platanifolium</i>
GUA MU BIAN ZHONG	瓜木变种	Planeleaf Alangium Variety*	T0284 <i>Alangium platanifolium</i> var. <i>platanifolium</i>
GUA YE WU TOU	瓜叶乌头	Hemsley Monkshood	T0101 <i>Aconitum hemsleyanum</i>
GUAI QIN	拐芹	Polymorphic Angelica	T0491 <i>Angelica polymorpha</i>
GUAN CANG ZHU	关苍术	Japanese Atractylodes	T0821 <i>Atractylodes japonica</i>
GUAN CONG DONG QING	灌丛冬青	Shrubby Holly*	T3391 <i>Ilex dumosa</i>
GUAN CONG XIANG KE KE	灌丛香科科*	Fluticose Germander*	T6361 <i>Teucrium fruticans</i>
GUAN GUANG MU	观光木	Guanguangtree	T6556 <i>Tsoongiodendron odorum</i>
GUAN HUA DANG SHEN	管花党参	Tubularflower Asiabell	T1603 <i>Codonopsis tubulosa</i>
GUAN HUA MA DOU LING	管花马兜铃	Tubeflower Dutchmanspipe	T0642 <i>Aristolochia tubiflora</i>
GUAN HUA QIN JIAO	管花秦艽	Tubeflower Gentian	T2932 <i>Gentiana siphonantha</i>
GUAN HUA ROU CONG RONG	管花肉苁蓉	Tube-shaped Flower Cistanche	T1458 <i>Cistanche tubulosa</i>
GUAN LUO SUI TUN CAO	冠裸穗豚草	Crestedspike Ragweed	T0406 <i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>
GUAN MU AO TUO SI TE CAO	灌木奥托斯特草*	Shrubby Otostegia*	T4557 <i>Otostegia fruticosa</i>
GUAN MU CHAI HU	灌木柴胡	Shrub Thoroughwax (Shrubby Hare's-ear)	T1062 <i>Bupleurum fruticosum</i>
GUAN MU LUO FU MU	灌木萝芙木*	Shrubby Devilpepper*	T5434 <i>Rauwolfia fruticosa</i>
GUAN MU TIAN MEN DONG	灌木天门冬	Shrubby Asparagus*	T0748 <i>Asparagus dumosus</i>
GUAN MU TONG	关木通	Manchurian Dutchmanspipe	T0632 <i>Aristolochia manshuriensis</i>
GUAN MU WEN SHU LAN	灌木文殊兰*	Shrubby Crinum* 'bush' or 'march lily'	T1801 <i>Crinum macowanii</i>
GUAN MU YA JU	灌木亚菊	Shrubby Ajania	T0260 <i>Ajania fruticulosa</i>
GUAN MU YUAN ZHI	灌木远志	Shrubby Milkwort*	T5076 <i>Polygala fruticosa</i>
GUAN MU ZHUANG CHE	灌木状车轴草*	Shrubby Clover*	T6519 <i>Trifolium fruticosum</i>
ZHOU CAO			
GUAN SHANG ZHANG YA CAI	观赏獐牙菜		T6218 <i>Swertia decora</i>
GUAN YE LIAN QIAO	贯叶连翘	Common St. John'swort	T3361 <i>Hypericum perforatum</i>

GUAN YIN CAO	观音草	Roxburgh Peristrophe	T4730 <i>Peristrophe roxburghiana</i>
GUAN ZHONG	贯众	Male Fern Rhizome	T2281 <i>Dryopteris crassirhizoma</i>
GUAN ZHUANG GOU YA HUA	冠状狗牙花	Coronary Ervatamia*	T2440 <i>Ervatamia coronaria</i>
GUAN ZHUANG MEI YING SU	灌状美罂粟		T0960 <i>Bocconia frutescens</i>
GUAN ZI YU PAN	管紫玉盘	Angola Uvaria*	T6658 <i>Uvaria angolensis</i>
GUANG BU DING GONG TENG	广布丁公藤*	Expanse Erycibe*	T2448 <i>Erycibe expansa</i>
GUANG CI BAO JU	光刺苞菊	Glabrous Acanthospermum*	T0046 <i>Acanthospermum glabratum</i>
GUANG CI GU	光慈姑	Edible Tulip	T6560 <i>Tulipa edulis</i>
GUANG E ZHU SHI DOU	光萼猪屎豆	Glabroussepal Crotalaria	T1837 <i>Crotalaria usaramoensis</i>
GUANG FANG FENG	广防风	Indian Epimeredi	T0503 <i>Anisomeles indica</i> [Syn. <i>Epimeredi indica</i>]
GUANG FANG JI	广防己	Fangchi	T0628 <i>Aristolochia fangchi</i>
GUANG FEI YAN CAO	光飞燕草	Light Larkspur*	T2069 <i>Delphinium corumbosum</i>
GUANG GUO GAN CAO	光果甘草	Licorice	T3013 <i>Glycyrrhiza glabra</i>
GUANG HUA DANG GUI	光滑当归*	Glabrate Angelica*	T0484 <i>Angelica glabra</i>
GUANG HUO XIANG	广藿香	Cablin Potchouli	T5059 <i>Pogostemon cablin</i> [Syn. <i>Mentha cablin</i>]
GUANG JIE QIU HAI TANG	光洁秋海棠*	Glabrate Begonia*	T0889 <i>Begonia glabra</i>
GUANG JIN QIAN CAO	广金钱草	Snowbellleaf Tickclover	T2134 <i>Desmodium styracifolium</i>
GUANG JING QIAN CAO	光茎茜草	Wallich Madder	T5585 <i>Rubia wallichiana</i>
GUANG LIANG HUANG TAN	光亮黄檀*	Shining Rosewood*	T2006 <i>Dalbergia nitidula</i>
GUANG LIANG JIA LONG DAN	光亮假龙胆*	Shining Gentianella*	T2940 <i>Gentianella nitida</i>
GUANG LIANG LUO FU MU	光亮萝芙木	Shining Devilpepper*	T5438 <i>Rauwolfia nitida</i>
GUANG LIANG SHI SONG	光亮石松*	Shining Clubmoss*	T3974 <i>Lycopodium lucidulum</i>
GUANG LIANG YANG TONG	光亮杨桐	Shining Adinandra*	T0182 <i>Adinandra nitida</i>
GUANG LIANG YUAN ZHI	光亮远志	Shining Milkwort*	T5078 <i>Polygala nitida</i>
GUANG NANG ZI BING JUE	光囊紫柄蕨	Long-eared Pseudophegopteris	T5259 <i>Pseudophegopteris subaurita</i>
GUANG RONG YIN YU	光荣茵芋	Laureate Skimmia*	T5971 <i>Skimmia laureola</i>
GUANG SHI WEI	光石韦	Bald Pyrrosia	T5353 <i>Pyrrosia calvata</i>
GUANG SI SHI JU	光四室菊	Littleleaf Horsebrush	T6355 <i>Tetradymia glabrata</i>
GUANG XI BA JIAO LIAN	广西八角莲	Guangxi Many-flowered May-apple*	T2300 <i>Dysosma guangxiensis</i>
GUANG XI E SHU	广西莪术	Kwangsi Turmeric	T1904 <i>Curcuma kwangsiensis</i>
GUANG XI JIU LI XIANG	广西九里香	Kwangsi Jasminorange	T4320 <i>Murraya kwangsiensis</i>
GUANG XI MEI DENG MU	广西美登木	Guangxi Mayten*	T4132 <i>Maytenus kwangsiensis</i>
GUANG XI QIAN HU	广西前胡	Guangxi Hogfennel	T4758 <i>Peucedanum kwangxiense</i>
GUANG XI SHI SUAN	广西石蒜	Guangxi Lycoris	T3985 <i>Lycoris kwangxiensis</i>
GUANG YAO DA HUANG HUA	光药大黄花	Mongolian Cymbaria	T1938 <i>Cymbaria mongolica</i>
GUANG YE BA DOU	光叶巴豆	Nitidleaf Croton	T1853 <i>Croton oblongifolius</i> [Syn. <i>Croton laevigatus</i>]
GUANG YE DI BU RONG	光叶地不容	Glabrousleaf Stephania*	T6127 <i>Stephania glabra</i>
GUANG YE DING GONG TENG	光叶丁公藤	Glabrousleaf Erycibe	T2450 <i>Erycibe schmidtii</i>
GUANG YE FEN HUA XIU XIAN JU	光叶粉花绣线菊	Fortune Japanese Spiraea	T6082 <i>Spiraea japonica</i> var. <i>fortunei</i>
GUANG YE JUE MING	光叶决明	Nitidleaf Senna*	T1236 <i>Cassia laevigata</i> [Syn. <i>Cassia floribunda</i>]
GUANG YE SHE PU TAO	光叶蛇葡萄	Hance Snakegrape	T0424 <i>Ampelopsis brevipedunculata</i> var. <i>hancei</i>
GUANG YE SHUI SU	光叶水苏	Marshy Betony	T6092 <i>Stachys palustris</i>
GUANG YE YAN ZI CAI	光叶眼子菜	Glabrousleaf Pondweed	T5175 <i>Potamogeton lucens</i>
GUANG YE ZHU SHI DOU	光叶猪屎豆	Shackshack Crotalaria	T1821 <i>Crotalaria incana</i>
GUANG YE ZI HUA	光叶子花	Naked Leafyflower	T0999 <i>Bougainvillea glabra</i>
GUANG YE ZI YU PAN	光叶紫玉盘	Glabrousleaf Uvaria	T6659 <i>Uvaria boniana</i>
GUANG ZE BA JI	光泽巴戟*	Lucid Indianmulberry*	T4282 <i>Morinda lucida</i>

GUANG ZE WU TOU	光泽乌头	Lucid Monkshood*	T0113 <i>Aconitum lucidusculum</i>
GUANG ZHI GOU ER CHA	光枝勾儿茶	Smoothbranched Supplejack	T0922 <i>Berchemia polyphylla</i> var. <i>leioclada</i>
GUI DENG LONG	鬼灯笼	Redcalyx Glotybower	T1555 <i>Clerodendron fortuneatum</i>
GUI GAI	鬼盖	Coprinus Sporocarp	T1660 <i>Coprinus atramentarius</i>
GUI HUA	桂花	Sweet Osmanthus	T4550 <i>Osmanthus fragrans</i>
GUI JIAN JIN JI ER	鬼箭锦鸡儿	Shagspine Peashrub	T1190 <i>Caragana jubata</i>
GUI JIAN YU	鬼箭羽	Winged Euonymus	T2536 <i>Euonymus alatus</i>
GUI JIU	鬼臼	Common Dysosma	T2305 <i>Dysosma versipellis</i> [Syn. <i>Podophyllum versipelle</i>]
GUI PI	桂皮	Japanese Cinnamon	T1441 <i>Cinnamomum japonicum</i>
GUI PI DIAO ZHANG	桂皮钓樟	Spicebush	T3848 <i>Lindera benzoin</i>
GUI YA NA GOU TENG	圭亚那钩藤	Garabato; Uganangi; Cat's Claw	T6616 <i>Uncaria guianensis</i>
GUI ZHEN CAO	鬼针草	Beggarticks	T0938 <i>Bidens bipinnata</i>
GUI ZHI	桂枝	Cassiabarktree Twig	T1438 <i>Cinnamomum cassia</i> [Syn. <i>Cinnamomum aromaticum</i>]
GUI ZHOU ZHANG YA CAI	贵州獐牙菜	Guizhou Swertia*	T6224 <i>Swertia kouitchensis</i>
GUI ZHU TANG JIE	桂竹糖芥	Treacle Erysimum	T2452 <i>Erysimum cheiranthoides</i>
GUI ZHU XIANG	桂竹香	Common Wallflower	T1356 <i>Cheiranthus cheiri</i>
GUO JIANG LONG	过江龙	Complanate Clubmoss	T3971 <i>Lycopodium complanatum</i>
GUO YE GE	裹叶葛	Mirifica Kudzuvine	T5315 <i>Pueraria mirifica</i>
HA DA SHI JI NING	哈达石芥苧	Hada Mosla*	T4540 <i>Orthodon hadai</i>
HA SHI LUO HAN SONG	哈氏罗汉松	Hall Podocarpus*	T5040 <i>Podocarpus hallii</i>
HA SHI MA	哈士蟆	Dried Chinese Woodfrog	T5409 <i>Rana temporaria chensinensis</i> ; <i>Rana amurensis</i>
HA SHI SHAN GENG CAI	哈氏山梗菜*	Hassler Lobelia*	T3899 <i>Lobelia hassleri</i>
HAI BA JI	海巴戟	Indianmulberry	T4280 <i>Morinda citrifolia</i>
HAI BIAN MA BIAN CAO	海边马鞭草*	Littoral Verbena*	T6708 <i>Verbena littoralis</i>
HAI BIN LIU CHUAN YU	海滨柳穿鱼	Japanese Toadflax	T3844 <i>Linaria japonica</i>
HAI BIN LUO FU MU	海滨萝芙木*	Littoral Devilpepper*	T5436 <i>Rauwolfia littoralis</i>
HAI BO NA DA JI	海博纳大戟	Hyberna Euphorbia	T2592 <i>Euphorbia hyberna</i>
HAI CONG	海葱	Red Squill	T6649 <i>Urginea maritima</i>
HAI DAI	海带	Ellgrass	T6925 <i>Zostera marina</i>
HAI DAO MIAN	海岛棉	Barbados Cotton	T3054 <i>Gossypium barbadense</i>]
HAI ER CHA	孩儿茶	Cutechu	T0019 <i>Acacia catechu</i>
HAI FENG TENG	海风藤	Kadsura Pepper	T4950 <i>Piper kadsura</i> [Syn. <i>Piper futokadsura</i>]
HAI HONG DOU	海红豆	Sandal Beadtree	T0167 <i>Adenanthera pavonina</i>
HAI JIN BI XIE	海锦草薺		T2210 <i>Dioscorea spongiosa</i>
HAI JIN SHA	海金沙	Japanese Climbing Fern	T3990 <i>Lygodium japonicum</i>
HAI JIU CAI	海韭菜	Shore Podgrass	T6526 <i>Triglochin maritimum</i>
HAI NAN CU FEI	海南粗榧	Hainan Plumyew	T1319 <i>Cephalotaxus hainanensis</i> [Syn. <i>Cephalotaxus mannii</i>]
HAI NAN GE NA XIANG	海南哥纳香	Hainan Goniotalamus	T3048 <i>Goniotalamus howii</i>
HAI NAN GOU YA HUA	海南狗牙花	Heyne Ervatamia*	T2443 <i>Ervatamia hainanensis</i>
HAI NAN JIAN MU	海南榿木	Hainan Pencilwood	T2309 <i>Dysoxylum hainanense</i>
HAI NAN LUO FU MU	海南萝芙木	Hainan Devilpepper	T5426 <i>Rauwolfia verticillata</i> var. <i>hainanensis</i>
HAI NAN MAI MA TENG	海南买麻藤	Hainan Jointfir	T3030 <i>Gnetum hainanense</i>
HAI NAN QING NIU DAN	海南青牛胆	Hainan Tinospora	T6466 <i>Tinospora hainanensis</i>
HAI NAN SHA REN	海南砂仁	Hainan Amonum	T0417 <i>Amonum longiligulare</i>
HAI NAN YE SHAN HUA	海南野山花	Hainan Sarcococca	T5733 <i>Sarcococca vagans</i>
HAI NI GOU ZHI TENG	海尼钩枝藤	Indian Liana	T0449 <i>Ancistrocladus heyneanus</i>
HAI QI	海漆	Bling-your-eye-tree	T2650 <i>Excoecaria agallocha</i>
HAI REN CAO	海人草	Simple Digenea Frond	T2173 <i>Digenea simplex</i>
HAI SHEN CHANG	海参肠	Sea-cucumber Intestines	T6145 <i>Stichopus japonicus</i>

HAI SHENG CHUN MAN ZAO	海生川蔓藻*	Marine Widgeonweed	T5616 <i>Ruppia maritime</i>
HAI SHI	海柿*	Maritime Persimmon*	T2224 <i>Diospyros maritima</i>
HAI SHI GOU YA HUA	海氏狗牙花	Medicinal Ervatamia	T2444 <i>Ervatamia heyneana</i>
HAI SONG ZI	海松子	Korean Pine Seed	T4912 <i>Pinus koraiensis</i>
HAI TANG GUO	海棠果	Kalofilum	T1129 <i>Calophyllum inophyllum</i>
HAI TONG	海通	Tomentose Glorybower	T1567 <i>Clerodendrum mandarinorum</i>
HAI TONG	海桐	Japanese Pittosporum	T4987 <i>Pittosporum tobira</i>
HAI TONG PI	海桐皮	Oriental Variegated Coralbean Bark	T2479 <i>Erythrina variegata</i> var. <i>orientalis</i>
HAI TUN YU	海獐鱼	Dolphin	T2092 <i>Delphinus delphis</i>
HAI XIAKihinouye	海虾	Prawn	T4696 <i>Penaeus orientalis</i>
HAI YAN	海燕		T0782 <i>Asterina pectinifera</i>
HAI YANG DA JI	海洋大戟	Sea Euphorbia*	T2607 <i>Euphorbia paralias</i>
HAI YING SU	海罌粟	Ciliate Hornpoppy*	T2968 <i>Glaucium fimbriigerum</i>
HAI YUN	海蘊		T4403 <i>Nemacystus decipiens</i> [Syn. <i>Mesogloea decipiens</i> ; <i>Cladosiphon decipiens</i>]
HAI ZHOU GU SUI BU	海州骨碎补	Squirrel's Foot Fern	T2053 <i>Davallia mariesii</i>
HAN CAI	蕻菜	Indian Rorippa	T5560 <i>Rorippa montana</i> [Syn. <i>Rorippa dubia</i> ; <i>Sisymbrium dublium</i>]
HAN CHENG XI XIN	汉城细辛	Seoul Siebold Wildginger	T0732 <i>Asarum sieboldii</i> var. <i>seoulensis</i>
HAN FANG JI	汉防己	Yellowmouth Dutchmanspipe	T0629 <i>Aristolochia heterophylla</i>
HAN LIAN HUA	旱莲花	Common Nasturtium	T6555 <i>Tropaeolum majus</i>
HAN MAI PING CAO	旱麦瓶草	Dry Silene	T5955 <i>Silene jennisensis</i>
HAN MI ER DUN HUI YE	汉密尔顿灰叶	Hamilton Tephrosia*	T6335 <i>Tephrosia hamiltonii</i>
HAN QIN	旱芹	Wildcelery	T0544 <i>Apium graveolens</i>
HAN QIN BIAN ZHONG	旱芹变种	Wildcelery Variety	T0545 <i>Apium graveolens</i> var. <i>dulce</i>
HAN RUI WU WEI ZI	含蕊五味子	Angletwig Magnoliavine	T5797 <i>Schisandra propinqua</i>
HAN SHENG JUAN BAI	旱生卷柏	Staunton's Spikemoss	T5868 <i>Selaginella stauntoniana</i>
HAN SHENG XIANG CHA CAI	旱生香茶菜	Dry-living Rabdosisia	T3536 <i>Isodon xerophilus</i>
HAN XIN CAO	韩信草	Indian Skullcap	T5840 <i>Scutellaria indica</i>
HAN XIU CAO	含羞草	Sensitive Plant	T4248 <i>Mimosa pudica</i>
HANG BAI ZHI	杭白芷	Taiwan Angelica	T0498 <i>Angelica taiwaniana</i>
HAO WANG JIAO LU HUI	好望角芦荟	Cape of Good Hope Aloe Dried Juice	T0338 <i>Aloe ferox</i>
HAO WANG JIAO LUO HAN SONG	好望角罗汉松	Cape of Good Hope Podocarpus	T5037 <i>Podocarpus elongatu</i>
HAO WANG JIAO XIANG PU	好望角香蒲	Cape-of-Good-Hope Cattail	T6586 <i>Typha capensis</i>
HE AN FU LAO JU	河岸弗劳菊*	Riparian Tarbush*	T2741 <i>Flourensia riparia</i>
HE AN GOU GAN CAI	河岸狗肝菜	Riparian Dicliptera*	T2160 <i>Dicliptera riparia</i>
HE AN HUANG TAN	河岸黄檀	Riparian Rosewood*	T2011 <i>Dalbergia riparia</i>
HE AN ZE LAN	河岸泽兰	Riparian Eupatorium, Riverside Eupatorium	T2570 <i>Eupatorium riparium</i>
HE BAO DI BU RONG	荷苞地不容	Dicentrine Stephania*	T6121 <i>Stephania dicentrinifera</i>
HE BAO MU DAN GEN	荷包牡丹根	Showy Bleedingheart Root	T2154 <i>Dicentra spectabilis</i>
HE BEI YANG	河北杨	Hebei Poplar	T5153 <i>Populus hopeiensis</i>
HE CAO XIANG WAN DOU	禾草香豌豆	Grass Vetchling	T3706 <i>Lathyrus nissolia</i>
HE CAO YE JIA BEI FANG FENG	禾草叶假北防风*		T3734 <i>Ledebouria graminifolia</i>
HE ER TI SHAN MA CHA	赫尔梯山马茶		T6273 <i>Tabernaemontana holstii</i>
HE GENG	荷梗	Hindu Lotus Petiole	T4397 <i>Nelumbo nucifera</i>
HE GUO CU FEI	核果粗榧	Drupaceous Plumyew*	T1317 <i>Cephalotaxus drupacea</i>
HE GUO ZHUANG BU GU ZHI	核果状补骨脂	Drupaceous Scurfpea*	T5271 <i>Psoralea drupacea</i>
HE HUA XUE LIAN	褐花雪莲	Brownflower Saussurea	T5765 <i>Saussurea phaeantha</i>
HE HUA YAN LING CAO	褐花延龄草	Brownflower Trillium	T6532 <i>Trillium erectum</i>
HE HUA YU LAN	荷花玉兰	Southern Magnolia	T4039 <i>Magnolia grandiflora</i>
HE HUAN PI	合欢皮	Silktree Albizia Bark	T0292 <i>Albizzia julibrissin</i>

HE KA NI YA HUANG YANG	赫卡尼亚黄杨*	Hyrcanian Box*	T1089 <i>Buxus hyrcana</i>
HE LAN ZHONG ZHI FAN	荷兰种植番红花	Holland Planted Saffron*	T1806 <i>Crocus antalyensis</i> cv
HONG HUA			
HE LU BAI JIAN MU	褐绿白坚木	Olive-green White Quebracho*	T0770 <i>Aspidosperma olivaceum</i>
HE NAN TANG SONG CAO	河南唐松草	Honan Meadowrue	T6392 <i>Thalictrum honanense</i>
HE QING HUA	荷青花	Japanese Hylomecon	T3316 <i>Hylomecon japonica</i>
HE RONG GAI NIU GAN JUN	褐绒盖牛肝菌	Bay Bolete	T6848 <i>Xerocomus badius</i>
HE SE ZHONG HUA SHU	褐色钟花树		T6269 <i>Tabebuia avellanedae</i>
HE SHI FENG	鹤虱风	Wild Carrot	T2048 <i>Daucus carota</i>
HE SHI TANG SONG CAO	鹤氏唐松草	Hernandez Meadowrue*	T6391 <i>Thalictrum hernandezii</i>
HE SHOU WU	何首乌	Tuber Fleecflower	T5107 <i>Polygonum multiflorum</i>
HE SHUO YAO HUA	河朔堯花	Lowdaphne Stringbush	T6819 <i>Wikstroemia chamaedaphne</i>
HE TA CAO	和他草	Florida Waltheria	T6808 <i>Waltheria americana</i>
HE TAO DA HUANG	河套大黄	River-bend Rhubarb*	T5469 <i>Rheum hotaense</i>
HE TUN	河豚	Globefish	T2805 <i>Fugu ocellatus</i>
HE YE	荷叶	Hindu Lotus Leaf	T4398 <i>Nelumbo nucifera</i>
HE YE DI	荷叶蒂	Hindu Lotus Leaf-base	T4399 <i>Nelumbo nucifera</i>
HE YE FENG MAO JU	禾叶凤毛菊	Grassleaf Saussurea	T5754 <i>Saussurea graminea</i>
HE ZI	诃子	Medicine Terminalia	T6346 <i>Terminalia chebula</i>
HE ZI YE	诃子叶	Medicine Terminalia Leaf	T6347 <i>Terminalia chebula</i>
HEI BA LUO CAO	黑巴洛草	Black Bui*	T0863 <i>Ballota nigra</i>
HEI BAI HE	黑百合	Kamchatka Fritillary	T2782 <i>Fritillaria camtschatcensis</i>
HEI BAI JIAN MU	黑白坚木*	Black White Quebracho*	T0769 <i>Aspidosperma nigricans</i>
HEI CHA BIAO	黑茶藨	Black Currant	T5546 <i>Ribes nigrum</i>
HEI CHAI HU	黑柴胡	Black Thorowax	T1074 <i>Bupleurum smithii</i>
HEI CI CI TONG	黑刺刺桐*	Blackstick Coralbean*	T2470 <i>Erythrina melanacantha</i>
HEI DA DOU	黑大豆	Black Soyabean	T3000 <i>Glycine max</i>
HEI DA DOU PI	黑大豆皮	Black Soyabean Spermoderm	T3001 <i>Glycine max</i>
HEI DA DOU YE	黑大豆叶	Black Soyabean Leaf	T3002 <i>Glycine max</i>
HEI FENG TENG	黑风藤	Manyflower Fissistigma	T2736 <i>Fissistigma polyanthum</i>
HEI GANG LIU	黑杠柳	Black Silkvine	T4728 <i>Periploca nigrescens</i>
HEI GUO BA QIA	黑果菝葜	Blackfruit Greenbrier	T5978 <i>Smilax glauco-china</i>
HEI GUO HUANG PI	黑果黄皮	Dunn Wampee	T1534 <i>Clausena dunniana</i>
HEI GUO QIAN CAO	黑果茜草	Blackfruit Madder	T5580 <i>Rubia cordifolia</i> var. <i>pratensis</i>
HEI HU TAO	黑胡桃	Black Walnut	T3566 <i>Juglans nigra</i>
HEI HUA WU GEN TENG	黑花无根藤*	Blackflower Cassytha*	T1253 <i>Cassytha melantha</i>
HEI HUA YAN MING CAO	黑花延命草	Blackflower Rabdosia*	T3531 <i>Isodon trichocarpus</i>
HEI JIE	黑芥	Black Mustard	T1012 <i>Brassica nigra</i>
HEI JIE GENG LAN	黑桔梗兰*	Black Dianella*	T2140 <i>Dianella nigra</i>
HEI JING SHU	黑荆树	Wattle	T0024 <i>Acacia mearnsii</i>
HEI KE NAN	黑壳楠	Largeleaf Spicebush	T3852 <i>Lindera megaphylla</i>
HEI KUN BU	黑昆布	Tangle Thallus	T2321 <i>Ecklonia kurome</i>
HEI MA YI	黑蚂蚁	Silky Ant	T2753 <i>Formica fusca</i>
HEI MAN	黑蔓	Regel Threewingnut	T6541 <i>Tripterygium regelii</i>
HEI MAO SHI HU	黑毛石斛	Blackhair Denrobium	T2111 <i>Dendrobium williamsonii</i>
HEI MU JIN HE HUAN	黑木金合欢	Australian Blackwood	T0025 <i>Acacia melanoxylon</i>
HEI REN DONG	黑忍冬	Black Honeysuckle	T3916 <i>Lonicera nigra</i>
HEI SE MI PI KANG	黑色米皮糠	Black Rice Spermoderm*	T4547 <i>Oryza sativa</i> cv
HEI SHI ER	黑石耳		T2115 <i>Dermatocarpon minutum</i>
HEI SHUI CUI QUE	黑水翠雀	Potanin Larkspur	T2084 <i>Delphinium potaninii</i>
HEI SHUI CUI QUE HUA BIAN	黑水翠雀花变种*	Potanin Larkspur Variety*	T2085 <i>Delphinium potaninii</i> var. <i>jiufengshanense</i>
ZHONG			
HEI SHUI XIE CAO	黑水缬草	Amur Valeriana	T6675 <i>Valeriana amurensis</i>

HEI SHUI YE YING SU	黑水野罌粟	Amur Poppy	T4630 <i>Papaver nudicaule</i> ssp. <i>amurense</i>
HEI XIAN TIAO TENG HUANG	黑线条藤黄*	Nigroline Garcinia*	T2868 <i>Garcinia nigrolineata</i>
HEI YAN SHE GEN CAO	黑岩蛇根草	Black-rock Ophiorrhiza*	T4511 <i>Ophiorrhiza kuroiwai</i>
HEI ZHI MA	黑芝麻	Oriental Sesame (black seed)	T5927 <i>Sesamum indicum</i> [Syn. <i>Sesamum orientale</i>]
HEI ZHONG CAO	黑种草	Jackinprison	T4431 <i>Nigella damascena</i>
HEI ZI LI GUO JI SHENG	黑紫梨果寄生*	Black-purple Scurrula*	T5830 <i>Scurrula atropurpurea</i>
HENG GEN FEI CAI	横根费菜	Orange Stonecrop	T5855 <i>Sedum kamschaticum</i>
HENG LI DI ER CAO	亨利地耳草	Henry St.John'swort	T3354 <i>Hypericum henryi</i>
HENG ZHOU WU YAO	衡州乌药	Laurelleaf Snailseed	T1586 <i>Cocculus laurifolius</i>
HONG A BU TA CAO	红阿布塔草		T0014 <i>Abuta rufescens</i>
HONG BAI HE MU	红百合木	Lantern-tree	T1792 <i>Crinodendron hookerianum</i>
HONG BEI SHAN MA GAN	红背山麻杆	Redback Christmashush	T0297 <i>Alchornea trewioides</i>
HONG CAO	荳草	Prince's-feather	T5110 <i>Polygonum orientale</i>
HONG CHAI HU	红柴胡	Red Thorowax	T1072 <i>Bupleurum scorzonerifolium</i>
HONG CHE ZHOU CAO	红车轴草	Red Clover	T6521 <i>Trifolium pratense</i>
HONG CHUN	红椿	Burma Toon	T6474 <i>Toona ciliata</i>
HONG DA LI HUA	红大丽花	Coccoxochitl	T1995 <i>Dahlia coccinea</i>
HONG DOU	红豆	Hosie Ormosia	T4530 <i>Ormosia hosiei</i>
HONG DOU SHAN	红豆杉	Chinese Yew	T6310 <i>Taxus chinensis</i>
HONG DU HUO	红独活	Red Cowparsnip*	T3212 <i>Heracleum granatense</i>
HONG E JI XUE TENG	红萼鸡血藤	Redcalyx Millettia*	T4235 <i>Millettia erythrocalyx</i>
HONG GEN CAO	红根草	Hispid Sage	T5687 <i>Salvia prionitis</i>
HONG GUI	红桧	Formosan False Cypress	T1347 <i>Chamaecyparis formosensis</i>
HONG GUO JIAN MU	红果檉木	Redfruit Pencilwood	T2308 <i>Dysoxylum binectariferum</i>
HONG GUO LUO FU MU	红果萝芙木	Redfruit Devilpepper	T5425 <i>Rauvolfia verticillata</i> f. <i>rubrocarpa</i>
HONG HAI JIAO	红海椒	Sweet Pepper	T1186 <i>Capsicum annuum</i>
HONG HAI LAN	红海榄	Stylose Mangrove	T5489 <i>Rhizophora stylosa</i>
HONG HUA	红花	Safflower	T1215 <i>Carthamus tinctorius</i>
HONG HUA CAI DOU	红花菜豆	Runner Bean	T4782 <i>Phaseolus multiflorus</i>
HONG HUA CHU CHONG JU	红花除虫菊	Pyrethrum	T1389 <i>Chrysanthemum coccineum</i>
HONG HUA JIAO	红花椒*	Red Pricklyash*	T6891 <i>Zanthoxylum rubescens</i>
HONG HUA LONG DAN	红花龙胆	Redflower Gentian	T2927 <i>Gentiana rhodantha</i>
HONG HUA LU TI CAO	红花鹿蹄草	Redflower Pyrola	T5349 <i>Pyrola incarnata</i>
HONG HUA LV RONG HAO	红花绿绒蒿	Redflower Meconopsis	T4145 <i>Meconopsis punicea</i>
HONG HUA PI	红桦皮	Japanese White Birch Bark	T0933 <i>Betula platyphylla</i>
HONG HUA QI	红花槭	Red Maple	T0054 <i>Acer rubrum</i>
HONG HUA RUI MU	红花蕊木	Redflower Kopsia	T3640 <i>Kopsia fruticosa</i>
HONG HUA WU WEI ZI	红花五味子 Z1572	Redflower Magnoliavine	T5799 <i>Schisandra rubriflora</i>
HONG HUA YAN HUANG QI	红花岩黄芪	Redflower Sweetvetch	T3128 <i>Hedysarum multijugum</i>
HONG HUI XIANG	红茴香	Henry Anisetree	T3401 <i>Illicium henryi</i>
HONG JI DAN HUA	红鸡蛋花	Frangipani	T5032 <i>Plumeria rubra</i>
HONG JIA MI	红莢蒾	Red Viburnum*	T6736 <i>Viburnum erubescens</i>
HONG JIAN QIU LUO	红剪秋罗	Red Champion	T3949 <i>Lychnis dioica</i>
HONG KOU SHUI XIAN	红口水仙	Poets Narcissus	T4378 <i>Narcissus poeticus</i>
HONG KUAI ZI	红筷子	Great Willowherb (Firewood)	T1352 <i>Chamaenerion angustifolium</i> [Syn. <i>Epilobium angustifolium</i>]
HONG LI	红栎	Spanish Oak	T5378 <i>Quercus rubra</i>
HONG MA	红麻	Lanceleaf Dogbane*	T0552 <i>Apocynum lancifolium</i>
HONG MAO QI	红毛七	Robust Leontice	T3746 <i>Leontice robustum</i>
HONG MAO WU JIA PI	红毛五加皮	Girald Acanthopanax Root-bark	T0036 <i>Acanthopanax giraldii</i> [Syn. <i>Acanthopanax giraldii</i> var. <i>inermis</i> ; <i>Eleutherococcus giraldii</i>]

HONG MAO YE HAI TANG	红毛野海棠	Tuberculate Bredia	T1023 <i>Bredia tuberculata</i>
HONG MU	红木	Anatto-tree	T0947 <i>Bixa orellana</i>
HONG MU JI CAO	红母鸡草	Hookedhairypod Tickclover	T2130 <i>Desmodium gangeticum</i>
HONG NAN PI	红楠皮	Red Nanmu Bark	T4018 <i>Machilus thunbergii</i>
HONG NIANG ZI	红娘子	Red Lady-bug	T3287 <i>Huechys sanguinea</i>
HONG PI YUN SHAN	红皮云杉	Korean Spruce	T4873 <i>Picea koraiensis</i>
HONG QI YE SHU	红七叶树	Red Horsechestnut	T0200 <i>Aesculus carnea</i>
HONG QIE DONG GUO	红茄苳果	Mangrove Fruit	T5488 <i>Rhizophora mucronata</i>
HONG QIU JIANG	红球姜	Zerumbet Ginger	T6911 <i>Zingiber zerumbet</i>
HONG RU CAO	红乳草	Red-milk Grass*	T2623 <i>Euphorbia makinoi</i>
HONG SAN QI	红三七	Ovateleaf Knotweed	T5118 <i>Polygonum suffultum</i>
HONG SE JIN JI NA SHU	红色金鸡纳树	Redbark Cinchona	T1433 <i>Cinchona succirubra</i>
HONG SHI ER	红石耳	Red-Rock-Ears	T6602 <i>Umbilicaria hypococcinea</i>
HONG SHI XIAN TAO	红石仙桃*	Rubi Pholidota*	T4822 <i>Pholidota rubra</i>
HONG SHU	红树	Sharpleaf Mangrove	T5487 <i>Rhizophora apiculata</i>
HONG SHUAN JUN	红栓菌	Cinnabar-red	T6491 <i>Trametes cinnabarina</i> [Syn. <i>Polyporus cinnabarinus</i> ; <i>Boletus cinnabarinus</i>]
HONG SI XIAN	红丝线	Two-flower Red silkyarn	T3953 <i>Lycianthes biflora</i>
HONG SONG	红松	Korean Pine	T4913 <i>Pinus koraiensis</i>
HONG TOU CAO	红头草	Malay Blumea	T0959 <i>Blumea lacera</i>
HONG WEI SUAN JIAO GAN	宏伟酸脚杆*	Magnific Medinilla*	T4152 <i>Medinilla magnifica</i>
HONG WEN MA XIAN HAO	红纹马先蒿	Redstriate Woodbetony	T4684 <i>Pedicularis striata</i>
HONG YA DA JI	红芽大戟	Red Knoxia	T3632 <i>Knoxia valerianoides</i>
HONG YUAN CENG KONG JUN	红缘层孔菌	Red Belt Polypore	T2750 <i>Fomitopsis pinicola</i> [Syn. <i>Fomes pinicola</i> ; <i>Polyporus pinicola</i>]
HONG ZE LAN	红泽兰	Japanese Conehead	T6154 <i>Strobilanthes japonicus</i> [Syn. <i>Championella japonica</i>]
HONG ZHI ZHANG YA CAI	红直獐牙菜	Redspot Swertia	T6219 <i>Swertia erythrosticta</i>
HONG ZU HAO	红足蒿	Redfoot Wormwood	T0691 <i>Artemisia rubripes</i>
HOU GUO DANG GUI	厚果当归	Thickfruit Angelica*	T0490 <i>Angelica pachycarpa</i>
HOU KE GUI	厚壳桂	Chinese Cryptocarya	T1862 <i>Cryptocarya chinensis</i>
HOU PI HUA JIAO	厚皮花椒	Thickbark Pricklyash*	T6879 <i>Zanthoxylum elephantiasis</i>
HOU PI SHU	厚皮树	Coromandel Lannea	T3685 <i>Lannea grandis</i> [Syn. <i>Lannea coromandelica</i>]
HOU PO	厚朴	Officinal Magnolia	T4045 <i>Magnolia officinalis</i>
HOU SHU SHAN GU	后熟扇菇*	Mukitake (in Japanese)	T4617 <i>Panellus serotinus</i>
HOU TOU JUN	猴头菌	Bearded Tooth Carpophore	T3229 <i>Hericium erinaceus</i> [Syn. <i>Hydnum erinaceus</i>]
HOU WANG ZAO	厚网藻		T4570 <i>Pachydictyon coriaceum</i>
HOU YE GOU TENG	厚叶钩藤*	Thickleaf Gambirplant*	T6610 <i>Uncaria callophylla</i>
HOU YE HUI MAO DOU	厚叶灰毛豆*	Crassleaf Tephrosia*	T6333 <i>Tephrosia crassifolia</i>
HOU YE YAN BAI CAI	厚叶岩白菜	Thickleaf Bergenia	T0923 <i>Bergenia crassifolia</i>
HU BAO TAI	壶苞苔	Blasia*	T0949 <i>Blasia pusilla</i>
HU BEI BEI MU	湖北贝母	Hupeh Fritillary	T2787 <i>Fritillaria hupehensis</i>
HU BEI GUA LOU	湖北栝楼	Hupeh Snakegourd	T6509 <i>Trichosanthes hupehensis</i>
HU BEI HUANG JING	湖北黄精	Hubei Landpick	T5096 <i>Polygonatum zanlanscianense</i>
HU BEI SHAN MAI DONG	湖北山麦冬	Hubei Liriope	T3875 <i>Liriope spicata</i> var. <i>prolifera</i>
HU BEI SHAN ZHA	湖北山楂	Hupeh Hawthorn	T1770 <i>Crataegus hupehensis</i>
HU BEI SHI DA GONG LAO	湖北十大功劳	Confused Mahonia	T4060 <i>Mahonia confusa</i>
HU CI	虎刺	Indian Damnacanthus	T2020 <i>Damnacanthus indicus</i>
HU CI CONG MU	虎刺楸木	Spine Aralia	T0567 <i>Aralia armata</i>
HU CONG	胡葱	Shallot	T0310 <i>Allium ascalonicum</i>
HU DIE HUA	蝴蝶花	Fringed Iris	T3461 <i>Iris japonica</i>

HU DIE HUA DOU	蝴蝶花豆	Asian Pigeonwings	T1577 <i>Clitoria ternatea</i>
HU ER CAO	虎耳草	Creeping Rockfoil	T5773 <i>Saxifraga stolonifera</i>
HU ER CAO YE HUI QIN	虎耳草叶茴芹	Burnet-saxifrage	T4900 <i>Pimpinella saxifraga</i>
HU GUA	瓠瓜	Bottle Gourd	T3668 <i>Lagenaria siceraria</i> var. <i>depressa</i>
HU HUANG LIAN	胡黄连	Picrorhiza	T4887 <i>Picrorhiza kurrooa</i>
HU JI SHENG	榭寄生	Colored Mistletoe	T6775 <i>Viscum coloratum</i>
HU JIAO	胡椒	Black Pepper	T4957 <i>Piper nigrum</i>
HU JIAO HUA JIAO	胡椒花椒	Japanese Pricklyash	T6886 <i>Zanthoxylum piperitum</i>
HU KE HUANG GUA	虎克黄瓜*	Hooker Cucumber*	T1874 <i>Cucumis hookeri</i>
HU LI	榭栎	Peking Oak	T5371 <i>Quercus aliena</i>
HU LU BA	葫芦巴	Common Fenugreek	T6528 <i>Trigonella foenum-graecum</i>
HU LU CHA	葫芦茶	Triquetrous Tadehagi	T6277 <i>Tadehagi triquetrum</i>
HU LU QI	葫芦七	Kidneyleaf Goldenray	T3805 <i>Ligularia fischeri</i>
HU LU QI BIAN ZHONG	葫芦七变种*	Kidneyleaf Goldenray Variety*	T3806 <i>Ligularia fischeri</i> var. <i>spiciformis</i>
HU LUO BO	胡萝卜	Carrot	T2050 <i>Daucus carota</i> var. <i>sativa</i>
HU LUO BO ZI	胡萝卜子	Carrot Seed	T2051 <i>Daucus carota</i> var. <i>sativa</i>
HU MA GEN	胡麻根	Oriental Sesame Root	T5923 <i>Sesamum indicum</i>
HU MA YE	胡麻叶	Oriental Sesame Leaf	T5924 <i>Sesamum indicum</i>
HU SHE HONG	虎舌红	Teat-shaped Ardisia	T0600 <i>Ardisia mamillata</i> [Syn. <i>Timus mamillata</i>]
HU SHENG HONG JING TIAN	互生红景天	Oppositeleaf Rhodiola	T5500 <i>Rhodiola subopposita</i>
HU SHENG YE BAI QIAN CENG	互生叶白千层	Alternatleaf Melaleuca*	T4153 <i>Melaleuca alternifolia</i>
HU SHENG YE YE JUE MING	互生叶野决明	Alternatleaf Thermopsis*	T6425 <i>Thermopsis alternifolia</i>
HU SUI ZI	胡荽子	Coriander Seed	T1687 <i>Coriandrum sativum</i>
HU TAO QING PI	胡桃青皮	English Walnut Exocarp	T3567 <i>Juglans regia</i>
HU TAO QIU	胡桃楸	Manchurian Walnut	T3564 <i>Juglans mandshurica</i>
HU TAO REN	胡桃仁	English Walnut Seed	T3568 <i>Juglans regia</i>
HU TAO SHU PI	胡桃树皮	English Walnut Bark	T3569 <i>Juglans regia</i>
HU TAO YE	胡桃叶	English Walnut Leaf	T3570 <i>Juglans regia</i>
HU WEI LAN	虎尾兰	Snake Sansevieria	T5714 <i>Sansevieria trifasciata</i>
HU YAN WAN NIAN QING	虎眼万年青	Whiplash Star-of-Bethlehem	T4534 <i>Ornithogalum caudatum</i>
HU YE	榭叶	Daimyo Oak Leaf	T5372 <i>Quercus dentata</i>
HU ZHANG	虎杖	Japanese Fleeceflower	T5101 <i>Polygonum cuspidatum</i>
HU ZHANG CAO	虎掌草	Brooklet Anemone	T0471 <i>Anemone rivularis</i>
HU ZHANG YE	虎杖叶	Japanese Fleeceflower Leaf	T5102 <i>Polygonum cuspidatum</i>
HU ZHI ZI	胡枝子	Shrub Lespedeza	T3769 <i>Lespedeza bicolor</i>
HUA BAI LA SHU	花白蜡树	Flowering Ash	T2773 <i>Fraxinus ornus</i>
HUA BAN SHI ZU CAO	花瓣狮足草	Leontice*	T3745 <i>Leontice leontopetalum</i>
HUA BEI BAI QIAN	华北白前	Hancock Swallowwort	T1955 <i>Cynanchum hancockianum</i>
HUA BEI LAN PEN HUA	华北蓝盆花	Huapei Scabious	T5778 <i>Scabiosa tschiliensis</i>
HUA CHA BIAO	华茶藨	China Winterberry Currant	T5545 <i>Ribes fasciculatum</i> var. <i>chinense</i>
HUA CHONG LOU	华重楼	China Paris	T4649 <i>Paris polyphylla</i> var. <i>chinensis</i>
HUA DONG DUAN	华东楸	Japanese Linden	T6457 <i>Tilia japonica</i>
HUA DONG LAN CI TOU	华东蓝刺头	East China Globethistle	T2316 <i>Echinops grijsii</i>
HUA DONG TANG SONG CAO	华东唐松草	Fortune Meadowrue	T6388 <i>Thalictrum fortunei</i>
HUA GENG LONG DAN	花梗龙胆	Pedicellate Gentian	T2925 <i>Gentiana pedicellata</i>
HUA GOU TENG	华钩藤	Chinese Gambirplant	T6633 <i>Uncaria sinensis</i>
HUA GUAN YIN LIAN HUA	花冠银莲花	St. Brigid	T0466 <i>Anemone coronaria</i>
HUA HE KONG JUN	桦褐孔菌	Oblique Fuscoporia*	T2818 <i>Fuscoporia obliqua</i>
HUA JIAO	花椒	Bunge Pricklyash	T6869 <i>Zanthoxylum bungeanum</i>
HUA JIAO GEN	花椒根	Bunge Pricklyash Root	T6870 <i>Zanthoxylum bungeanum</i>
HUA JIAO LE	花椒筋	Cuspidate Pricklyash	T6872 <i>Zanthoxylum cuspidatum</i>
HUA JIN DAN	化金丹	Tetragonal Crotalaria	T1836 <i>Crotalaria tetragona</i>

HUA LAI CI SHU	华来刺树	<i>Fouquieria splendens</i>	T2762 <i>Fouquieria splendens</i>
HUA LI SHE BIAN JU	华丽蛇鞭菊	Pinkscale Gay-feather	T3788 <i>Liatris elegans</i>
HUA LING CAO	花菱草	California Poppy	T2495 <i>Eschscholzia californica</i>
HUA MAO	花锚	Corniculate Spurgentian	T3092 <i>Halenia corniculata</i>
HUA MU PI	桦木皮	Asian White Birch Bark	T0935 <i>Betula platyphylla</i> var. <i>japonica</i>
HUA NAN GONG LAO MU	华南功劳木	Japanese Mahonia	T4066 <i>Mahonia japonica</i>
HUA NAN GONG LAO YE	华南功劳叶	Japanese Mahonia Leaf	T4067 <i>Mahonia japonica</i>
HUA NAN GONG LAO ZI	华南功劳子	Japanese Mahonia Fruit	T4068 <i>Mahonia japonica</i>
HUA NAN HE SHI	华南鹤虱	Japanese Hedgeparsley	T6476 <i>Torilis japonica</i>
HUA NAN MA WEI SHAN	华南马尾杉	Fordi Phlegmariurus	T4800 <i>Phlegmariurus fordii</i>
HUA NAN MI HOU TAO	华南猕猴桃	Greyleaf Actinidia	T0162 <i>Actinidia glaucophylla</i>
HUA NAN REN DONG	华南忍冬(山银花)	Wild Honeysuckle	T3909 <i>Lonicera confusa</i>
HUA NAN WU ZHU YU	华南吴茱萸	South China Evodia	T2638 <i>Evodia austrosinensis</i>
HUA NAN ZAO JIA	华南皂荚	South China Honeylocust	T2976 <i>Gleditsia fera</i>
HUA SANG	华桑	Chinese Mulberry	T4293 <i>Morus cathayana</i>
HUA SHAN FAN	华山矾	Chinese Sweetleaf	T6252 <i>Symplocos chinensis</i>
HUA SHAN SONG	华山松	Armand Pine	T4906 <i>Pinus armandii</i>
HUA TANG SONG CAO	花唐松草	Filamentary Meadowrue	T6384 <i>Thalictrum filamentosum</i>
HUA TAO SHU	滑桃树		T6495 <i>Trewin nudiflora</i>
HUA XI BEI MU	华西贝母	Huaxi Fritillary	T2794 <i>Fritillaria siechuanica</i>
HUA XIANG SHU YE	化香树叶	Dyeteer Leaf	T5010 <i>Platycarya strobilacea</i>
HUA XU GENG BAI MAI GEN	花序梗百脉根*	Greater Bird's-foot-trefoil	T3930 <i>Lotus pedunculatus</i>
HUA YE CAI	花椰菜	Cauliflower	T1014 <i>Brassica oleracea</i> var. <i>botrytis</i>
HUA YE JIA DU JUAN	花叶假杜鹃		T0871 <i>Barleria lupulina</i>
HUA ZE LAN	华泽兰	Chinese Eupatorium	T2555 <i>Eupatorium chinense</i>
HUA ZHONG LIU ZU JUE	华中瘤足蕨	Fine-nerved Plagiogyria	T4998 <i>Plagiogyria euphlebia</i>
HUA ZHONG WU WEI ZI	华中五味子	Orange Magnoliavine	T5802 <i>Schisandra sphenanthera</i>
HUA ZHOU YOU	化州柚	Tomentose Pummelo	T1483 <i>Citrus grandis</i> var. <i>tomentosa</i>
HUA ZI JIN	华紫堇	Chinese Corydalis	T1713 <i>Corydalis cheilanthifolia</i>
HUAI	槐	Japanese Pagodatree	T6034 <i>Sophora japonica</i>
HUAI GEN	槐根	Japanese Pagodatree Root	T6035 <i>Sophora japonica</i>
HUAI JIAO	槐角	Japanese Pagodatree Fruit	T6036 <i>Sophora japonica</i>
HUAI TONG	淮通	Moupin Dutchmanspipe	T0635 <i>Aristolochia moupinensis</i>
HUAN JIE SONG LUO	环节松萝	Diffract Usnea Filament	T6653 <i>Usnea diffracta</i>
HUAN YANG SHEN YE TANG JIE	还阳参叶糖芥	Crepinleaf Erysimum*	T2453 <i>Erysimum crepidifolium</i>
HUAN ZHUANG JIN SI TAO	环状金丝桃	Circularity St.John'swort*	T3339 <i>Hypericum annulatum</i>
HUANG BAI	黄柏(黄檗)	Amur Corktree	T4789 <i>Phellodendron amurense</i>
HUANG BAI HE	黄百合	Hanson Lily	T3834 <i>Lilium hansonii</i>
HUANG BAI HONG GU	黄白红菇	Pale Russula*	T5622 <i>Russula ochroleuca</i>
HUANG BAI TANG JIE	黄白糖芥	Yellowish Erysimum*	T2455 <i>Erysimum ochroleucum</i>
HUANG BIAN BAI	黄扁柏	Yellow Cedar	T1348 <i>Chamaecyparis nootkatensis</i>
HUANG CHAN	黄蝉	Oleanderleaf Allemanda	T0308 <i>Allemanda neritifolia</i>
HUANG CHANG PU	黄菖蒲	Yellowflag Iris	T3467 <i>Iris pseudacorus</i>
HUANG CHONG	蝗虫	Grasshopper	T5559 <i>Romalea microptera</i>
HUANG GAN CAO	黄甘草	Yellow Licorice	T3016 <i>Glycyrrhiza kansuensis</i>
HUANG GEN JIANG HUANG	黄根姜黄*	Xanthorrhiza Turmeric*	T1908 <i>Curcuma xanthorrhiza</i>
HUANG GEN SHU	黄根树	Yellowroot	T6846 <i>Xanthorrhiza simplicissima</i>
HUANG GUA	黄瓜	Cucumber	T1878 <i>Cucumis sativus</i>
HUANG GUO QIE	黄果茄	Yellowfruit Nightshade	T6020 <i>Solanum xanthocarpum</i>
HUANG HAI TANG	黄海棠	Giant St.John'swort	T3340 <i>Hypericum ascyron</i>
HUANG HAI YING SU	黄海罂粟*	Yellow Hornpoppy*	T2969 <i>Glaucium flavum</i>
HUANG HAO	黄蒿	Virgate Wormwood	T0695 <i>Artemisia scoparia</i> [Syn. <i>Artemisia</i>

HUANG HE MAO REN DONG	黄褐毛忍冬	Yellowhair Honeysuckle	<i>capillaris</i> var. <i>scoparia</i>]
HUANG HONG SE RUI MU	黄红色蕊木*	Yellow-red Kopsia*	T3910 <i>Lonicera fulvotomentosa</i>
HUANG HUA BAI JIANG	黄花败酱	Dahurian Patrinia	T3639 <i>Kopsia flavida</i>
HUANG HUA CAI	黄花菜	Citron Daylily	T4672 <i>Patrinia scabiosaefolia</i>
HUANG HUA CAO	黄花草	Yellowflower Spiderflower*	T3192 <i>Hemerocallis citrina</i>
HUANG HUA DI DING	黄花地丁	Diluteyellow Crotalaria	T1552 <i>Cleome viscosa</i>
HUANG HUA ER LIU	黄花儿柳	Goat Willow	T1813 <i>Crotalaria albida</i>
HUANG HUA HAI YING SU	黄花海罂粟	Yellowflower Hornpoppy*	T5652 <i>Salix caprea</i>
HUANG HUA HAO	黄花蒿	Sweet Wormwood	T2967 <i>Glaucium davum</i>
HUANG HUA JIA ZHU TAO	黄花夹竹桃	Yellow Oleander	T0660 <i>Artemisia annua</i>
			T6433 <i>Thevetia nerifolia</i> [Syn. <i>Thevetia peruviana</i>]
HUANG HUA JIU LUN CAO	黄花九轮草	Official Primrose*	T5204 <i>Primula veris</i> [Syn. <i>Primula officinalis</i>]
HUANG HUA MU	黄花木	Greenleaf Piptanthus, Evergreen Laburnum	T4976 <i>Piptanthus nepalensis</i>
HUANG HUA REN	黄花稔	Acute Sida	T5942 <i>Sida acuta</i>
HUANG HUA SHU WEI CAO	黄花鼠尾草	Yellowflower Sage	T5672 <i>Salvia flava</i>
HUANG HUA WU TOU	黄花乌头关白附)	Korean Monkshood	T0088 <i>Aconitum coreanum</i>
HUANG HUA XIANG CHA CAI	黄花香茶菜	Yellowflower Rabdosia	T3524 <i>Isodon sculponeata</i> [Syn. <i>Rabdosia sculponeata</i>]
			T4427 <i>Nicotiana rustica</i>
HUANG HUA YAN CAO	黄花烟草	Aztec Tobacco	T5071 <i>Polygala arillata</i>
HUANG HUA YUAN ZHI	黄花远志	Yellowflower Milkwort	T5943 <i>Sida cordifolia</i>
HUANG HUA ZI	黄花仔	Cordateleaf Sida	T3089 <i>Gypsophila acutifolia</i>
HUANG JIE GU DAN	黄接骨丹	Gypsophila	T3248 <i>Hibiscus tiliaceus</i>
HUANG JIN	黄槿	Linden Hibiscus	T3414 <i>Impatiens sicutifer</i>
HUANG JIN FENG	黄金凤	Incurvedspur Snapweed	T0261 <i>Ajuga chamaepitys</i>
HUANG JIN GU CAO	黄筋骨草*	Yellow Bugle	T1265 <i>Catalpa speciosa</i>
HUANG JIN SHU	黄金树	Northern Catalpa	T5095 <i>Polygonatum sibiricum</i>
HUANG JING	黄精	Siberian Solomonseal	T6787 <i>Vitex negundo</i>
HUANG JING GEN	黄荆根	Negundo Chastetree Root	T6788 <i>Vitex negundo</i>
HUANG JING YE	黄荆叶	Negundo Chastetree Leaf	T6789 <i>Vitex negundo</i>
HUANG JING ZHONG ZI	黄荆种子	Negundo Chastetree Seed*	T0002 <i>Abelmoschus moschatus</i> [Syn. <i>Hibiscus abelmoschus</i>]
HUANG KUI	黄葵	Musk-mallow	T1662 <i>Coptis chinensis</i>
			T4001 <i>Lysimachia davurica</i>
HUANG LIAN	黄连	Chinese Goldthread	T4979 <i>Pistacia chinensis</i>
HUANG LIAN HUA	黄莲花	Dahurian Loosestrife	T2918 <i>Gentiana lutea</i>
HUANG LIAN YA	黄练芽	Chinese Pistache	T1758 <i>Cotinus coggygria</i>
HUANG LONG DAN	黄龙胆	Yellow Gentian	T1759 <i>Cotinus coggygria</i> var. <i>cinerea</i>
HUANG LU	黄栌	Common Smoketree	T1673 <i>Corchorus capsularis</i>
HUANG LU ZHI YE	黄栌枝叶	Common Smoketree Branch-leaf	T1674 <i>Corchorus capsularis</i>
HUANG MA YE	黄麻叶	Roundpod Jute Leaf	T0571 <i>Aralia decaisneae</i>
HUANG MA ZI	黄麻子	Roundpod Jute Seed	T5311 <i>Pueraria calycina</i>
HUANG MAO CONG MU	黄毛櫨木	Yellowhair Aralia	T2280 <i>Dryopteris chrysocoma</i>
HUANG MAO GE	黄毛葛	Yellow-hairy Calyx Kudzuvine	T0087 <i>Aconitum chrysotrichum</i>
HUANG MAO LIN MAO JUE	黄毛鳞毛蕨	Goldencoma Shield Fern	T4210 <i>Michelia champaca</i>
HUANG MAO WU TOU	黄毛乌头	Yellowhair Monkshood	T0982 <i>Bos taurus domesticus</i>
HUANG MIAN GUI	黄缅甸桂	Champac Michelia	T1784 <i>Cratoxylum cochinchinense</i>
HUANG MING JIAO	黄明胶	Oxhide Gelatin	T1537 <i>Clausena lansium</i>
HUANG NIU MU	黄牛木	Common Oxwood	T4791 <i>Phellodendron chinense</i>
HUANG PI GEN	黄皮根	Chinese Wampee Root	T1538 <i>Clausena lansium</i>
HUANG PI SHU	黄皮树	Chinese Corktree	T5742 <i>Sarracenia flava</i>
HUANG PI YE	黄皮叶	Chinese Wampee Leaf	
HUANG PING ZI CAO	黄瓶子草	Yellow Pitcherplant	

HUANG QI	黄芪(膜荚黄芪)	Membranous Milkvetch	T0798 <i>Astragalus membranaceus</i>
HUANG QI II	黄杞	Roxburgh Engelhardtia Root	T2360 <i>Engelhardia roxburghiana</i>
HUANG QIAO RUI HUA	黄鞘蕊花	Yellowflower Coleus	T1621 <i>Coleus xanthanthus</i>
HUANG QIN	黄芩	Baikal Skullcap	T5834 <i>Scutellaria baicalensis</i>
HUANG QIN JIAO	黄秦艽	Baillon Veratrilla	T6691 <i>Veratrilla baillonii</i>
HUANG SAI JIN LIAN MU	黄赛金莲木*	Yellow Ouratea*	T4560 <i>Ouratea flava</i>
HUANG SAN QI	黄三七	Common Souliea	T6060 <i>Souliea vaginata</i>
HUANG SE AO DING CAO	黄色凹顶藻	Yellow Concave-top Alga*	T3721 <i>Laurencia nipponica</i>
HUANG SE BAN RUI DOU	黄色瓣蕊豆	Yellow Prairie-clover	T4737 <i>Petalostemum purpureum</i>
HUANG SE QIAN LI GUANG	黄色千里光*	Yellow Groundsel*	T5888 <i>Senecio flavus</i>
HUANG SHAN	黄杉	China Douglas Fir	T5261 <i>Pseudotsuga sinensis</i>
HUANG SHAN YAO	黄山药	Yellow Yam	T2205 <i>Dioscorea panthaica</i>
HUANG SHU KUI HUA	黄蜀葵花	Setose Abelmoschus	T0001 <i>Abelmoschus manihot</i>
HUANG SHUI JING LAN	黄水晶兰	Yellow Bird's-nest	T4275 <i>Monotropa hypopitys</i>
HUANG SHUI XIAN	黄水仙	Daffodil	T4379 <i>Narcissus pseudonarcissus</i>
HUANG SI TAN BAO	黄斯坦堡	Winter Daffodil	T6144 <i>Sternbergia lutea</i>
HUANG TANG SONG CAO	黄唐松草	Maidenhair Meadowrue	T6385 <i>Thalictrum flavum</i>
HUANG WAN	黄菀	Shady Groundsel	T5892 <i>Senecio nemorensis</i>
HUANG WEI	黄薇	Myrtleleaf Heimia	T3130 <i>Heimia myrtifolia</i>
HUANG WU TOU	黄乌头*	Yellow Monkshood	T0076 <i>Aconitum anthora</i>
HUANG XI XIN	黄细心	Diffuse Boerhavia	T0969 <i>Boerhavia diffusa</i>
HUANG XIAO BO	黄小檗	Yellow Barberry	T0917 <i>Berberis tschonoskiana</i>
HUANG XIN HUA JIAO	黄心花椒	Yellow-heart Pricklyash	T6880 <i>Zanthoxylum flavum</i>
HUANG YAN MU	黄颜木		T1378 <i>Chlorophora tinctoria</i>
HUANG YANG MU YE	黄杨木叶	Chinese Box Juvenile Leaf	T1092 <i>Buxus microphylla</i> var. <i>sinica</i>
HUANG YANG XIAO BO	黄杨小檗	Box-leaved Barberry	T0899 <i>Berberis buxifolia</i>
HUANG YANG YE DUI CI TENG	黄杨叶对刺藤*	Boxleaf Scutia*	T5846 <i>Scutia buxifolia</i>
HUANG YANG YE MU BAN SHU	黄杨叶木瓣树	Boxleaf Xylopia*	T6851 <i>Xylopia buxifolia</i>
HUANG YAO	黄药	Oriental Buckthorn	T5456 <i>Rhamnus crenatus</i>
HUANG YAO ZI	黄药子	Airpotato Yam	T2191 <i>Dioscorea bulbifera</i>
HUANG YE DI BU RONG	黄叶地不容	Greenyellow Stephania	T6137 <i>Stephania viridiflavens</i>
HUANG YE DU XING CAI	荒野独行菜	Field Pepperwort	T3756 <i>Lepidium campestre</i>
HUANG YE HUAI	黄叶槐	Yellowleaf Sophora	T6030 <i>Sophora chrysophylla</i>
HUANG YING PI MA BO	黄硬皮马勃	Yellow Hardpeel Puff-ball*	T5814 <i>Scleroderma citrinum</i>
HUANG YU SHAN DOU	黄羽扇豆	Yellow Lupin	T3943 <i>Lupinus luteus</i>
HUANG ZHONG HUA	黄钟花	Florida Yellowtrumpet	T6324 <i>Tecoma stans</i>
HUANG ZI JIN	黄紫堇	Ochotsk Corydalis	T1728 <i>Corydalis ochotensis</i>
HUI BA QIA	灰菝葜	Grey Greenbrier*	T5973 <i>Smilax aristolochiaefolia</i>
HUI BAI DU HUO	灰白独活*	Canescent Cowparsnip*	T3211 <i>Heracleum canescens</i>
HUI BAI KU MA DOU	灰白苦马豆*	Canescent Swainsonia*	T6207 <i>Swainsonia canescens</i>
HUI BAI MAO LUO FU MU	灰白毛茛苳木	Canescent Devilpepper*	T5431 <i>Rauwolfia canescens</i>
HUI BAI QIE	灰白茄*	Greywhite Nightshade*	T5999 <i>Solanum incanum</i>
HUI BAI SHI CAN	灰白石蚕*	Narrowleaf Germander	T6366 <i>Teucrium polium</i>
HUI BAI XIANG RI KUI	灰白向日葵*	Canescent Sunflower*	T3147 <i>Helianthus canescens</i>
HUI BAI XIE HAO	灰白邪蒿*	Greywhite Seseli*	T5931 <i>Seseli incanum</i>
HUI BAI YI MU CAO	灰白益母草	Glaucouscent Motherwort	T3751 <i>Leonurus glaucescens</i>
HUI BAO HAO	灰苞蒿	Roxburgh Wormwood	T0690 <i>Artemisia roxbugiana</i>
HUI CI TONG	灰刺桐	Grey Coralbean*	T2466 <i>Erythrina glauca</i>
HUI GUO JIAO GU LAN	喙果绞股蓝	Rostratefruit Gynostemma	T3086 <i>Gynostemma yixingense</i>
HUI HAO	蛔蒿	Chinese Seriphidium	T5920 <i>Seriphidium cinum</i> [Syn. <i>Artemisia cina</i>]
HUI HU TAO	灰胡桃	Butternut	T3563 <i>Juglans cinerea</i>
HUI HUANG HUA	灰黄华*	Cinereous Thermopsis*	T6427 <i>Thermopsis cinerea</i>

HUI HUI DOU	回回豆	Gram Chickpea	T1412 <i>Cicer arietinum</i>
HUI HUI SU	回回苏	Crisped Common Perilla	T4722 <i>Perilla frutescens</i> var. <i>crispa</i>
HUI HUI SU GENG	回回苏梗	Crisped Common Perilla Stem	T4723 <i>Perilla frutescens</i> var. <i>crispa</i>
HUI JIN SE TUAN WANG JUN	灰烬色团网菌*	Grey Arcyria*	T0589 <i>Arcyria cinerea</i>
HUI LV YAN HU SUO	灰绿延胡索	Greyish-green Corydalis	T1705 <i>Corydalis adunca</i>
HUI MAO DANG SHEN	灰毛党参	Greyhair Asiabell	T1596 <i>Codonopsis canescens</i>
HUI QIN	茴芹	Anise	T4895 <i>Pimpinella anisum</i>
HUI SE OU SHI NAN	灰色欧石南	Bell Heather	T2417 <i>Erica cinerea</i>
HUI TE KE MAO GAO CAI	惠特克茅膏菜*	Whittaker Sundew*	T2270 <i>Drosera whittakeri</i>
HUI XIANG	茴香	Fennel Fruit	T2744 <i>Foeniculum vulgare</i>
HUI XIANG GEN	茴香根	Fennel Root	T2745 <i>Foeniculum vulgare</i>
HUI XIANG JING YE	茴香茎叶	Fennel Stem and Leaf	T2746 <i>Foeniculum vulgare</i>
HUI ⁽⁴⁾ YE	桧叶	Chinese Juniper Leaf	T5987 <i>Sobina chinensis</i>
HUI YE	灰叶	Purple Tephrosia	T6338 <i>Tephrosia purpurea</i>
HUI YE DU JING SHAN	灰叶杜茎山	Greyleaf Maesa	T4027 <i>Maesa chisia</i>
HUI YE GEN	灰叶根	Purple Tephrosia Root	T6339 <i>Tephrosia purpurea</i>
HUI YE YAN CAO	灰叶烟草	Leadwordleaf Tobacco	T4426 <i>Nicotiana plumbaginifolia</i>
HUI ZHAN MAO REN DONG	灰毡毛忍冬	Largeflower-like Honeysuckle	T3914 <i>Lonicera macranthoides</i>
HUI ZHU NIU NAI CAI	喙柱牛奶菜	Beakstyle Condorvine	T4118 <i>Marsdenia oreophila</i>
HUI ZHUANG JIU JIE	喙状九节*	Rostral Ninenode*	T5278 <i>Psychotria rostrata</i>
HUN TOU JI	昏头鸡	Fortune's Holly Fern	T1986 <i>Cyrtomium fortunei</i>
HUN XIAO MO YAO	混淆没药*	Confuse Myrrhree*	T1634 <i>Commiphora confusa</i>
HUO MA REN	火麻仁	Hemp Fimble Seed	T1173 <i>Cannabis sativa</i>
HUO SHAN YAN CAO HU JIAO	火山岩草胡椒	Volcanic Peperomia*	T4708 <i>Peperomia vulcanica</i>
HUO SUO MA	火索麻	Tortedfruit Screwtree	T3164 <i>Helicteres isora</i>
HUO TAN MU CAO	火炭母草	Chinese Knotweed	T5100 <i>Polygonum chinense</i>
HUO XIANG	藿香	Wrinkled Gianthyssop	T0212 <i>Agastache rugosus</i>
HUO XIANG YE LV RONG HAO	藿香叶绿绒蒿	Betonyleaf Meconopsis	T4141 <i>Meconopsis betonicifolia</i>
HUO YAN HUA	火焰花	Curvedflower Phlogacanthus	T4803 <i>Phlogacanthus curviflorus</i>
HUO YANG LE	火秧箭	Ancients Euphorbia	T2580 <i>Euphorbia antiquorum</i>
IN DU TIE XIAN ZI		Indian Balata*	T4105 <i>Manilkara indica</i>
JI BEI	吉贝	Kapok Ceiba	T1284 <i>Ceiba pentandra</i>
JI CAI	荠菜	Shepherdspurse	T1184 <i>Capsella bursa-pastoris</i>
JI CAI ZI	荠菜子	Shepherdspurse Seed	T1185 <i>Capsella bursa-pastoris</i>
JI CHA KAI LA RUI A	极叉开拉瑞阿	Spreading Creosote-bush	T3693 <i>Larrea divaricata</i>
JI CHANG LANG DU	鸡肠狼毒	Leafy Euphorbia	T2585 <i>Euphorbia esula</i>
JI DAN GUO	鸡蛋果	Passionfruit	T4665 <i>Passiflora edulis</i>
JI DAN SHEN	鸡蛋参	Convolvulate Asiabell	T1598 <i>Codonopsis convolvulacea</i>
JI GAN CAO	棘甘草*	Echinate Licorice*	T3012 <i>Glycyrrhiza echinata</i>
JI GU CAO	鸡骨草	Canton Abrus	T0010 <i>Abrus fruticosus</i> [Syn. <i>Abrus cantoniensis</i>]
JI GUAN CI TONG	鸡冠刺桐	Folkers Coralbean*	T2463 <i>Erythrina crysragalli</i>
JI GUAN HUA	鸡冠花	Common Cockscomb Flower	T1299 <i>Celosia cristata</i>
JI GUAN ZI	鸡冠子	Common Cockscomb Seed	T1297 <i>Celosia cristata</i>
JI JI	及己	Serrate Chloranthus	T1372 <i>Chloranthus serratus</i>
JI JI JING YE	及己茎叶	Serrate Chloranthus Stem-leaf	T1373 <i>Chloranthus serratus</i>
JI JI QIN	芨芨芹	Heart-leaved Alexanders	T6913 <i>Zizia aptera</i>
JI JIAN DAN QING MEI	极简单青霉*		T4699 <i>Penicillium simplicissimum</i>
JI JIAN LONG SHE LAN	极坚龙舌兰*	Very-hard Agave*	T0224 <i>Agave rigidissima</i>
JI JIAN XIU XIAN JU	急尖绣线菊	Acute Spiraea	T6081 <i>Spiraea japonica</i> var. <i>acuta</i>
JI JIAO SHEN	鸡脚参	Common Javatea	T4542 <i>Orthosiphon wulfenoides</i> [Syn. <i>Coleus wulfenoides</i>]
JI JUE	姬蕨	Punctate Flakelet Fern	T3376 <i>Hypolepis punctata</i> [Syn. <i>Polypodium</i>

JI KUAN CI TONG	极宽刺桐*	Extreme-wide Coralbean*	<i>punctatum</i>] T2467 <i>Erythrina latissima</i>
JI LI GEN	蒺藜根	Puncturevine Caltrap Root	T6498 <i>Tribulus terrestris</i>
JI LI MIAO	蒺藜苗	Puncturevine Caltrap Shoot*	T6499 <i>Tribulus terrestris</i>
JI LIN WU TOU	吉林乌头	Kirin Monkshood*	T0106 <i>Aconitum kirinense</i>
JI LIN YAN LING CAO	吉林延龄草	Whiteflower Trillium*	T6533 <i>Trillium kamschaticum</i>
JI MAO CAI	鸡毛菜	Chicken-feather Vegetable*	T5309 <i>Pterocladia tenuis</i>
JI MAO SONG	鸡毛松	Imbricate Podocarpus	T5041 <i>Podocarpus imbricatus</i>
JI MEI YUN SHI	极美云实*	Prettiest Caesalpinia	T1107 <i>Caesalpinia pulcherrima</i>
JI MU	欐木	Chinese Loropetalum	T3926 <i>Loropetalum chinense</i>
JI NAO	鸡脑	Chicken Brain	T2836 <i>Gallus gallus domesticus</i>
JI NEI JIN	鸡内金	Chicken's Gizzard Endothelium	T2838 <i>Gallus gallus domesticus</i>
JI NEI YA BAN JIU JU	几内亚斑鸠菊	Guinea Bitterleaf*	T6718 <i>Vernonia guineensis</i>
JI NEI YA GE MU	几内亚格木	Red-water Tree	T2485 <i>Erythrophleum guineense</i>
JI NEI YA HU JIAO	几内亚胡椒	Ashanti Pepper	T4946 <i>Piper guineense</i>
JI NING	芥苧	Largeserrate Mosla	T4306 <i>Mosla grosseserrata</i>
JI ROU	鸡肉	Chicken	T2837 <i>Gallus gallus domesticus</i>
JI RUAN RONG TAI	极软绒苔*		T6502 <i>Trichocolea mollissima</i>
JI SHI HONG JING TIAN	吉氏红景天	Algid Rhodiola*	T5491 <i>Rhodiola algida</i>
JI SHI LU HUI	基氏芦荟*	Gililand Aloe*	T0339 <i>Aloe gililandii</i>
JI SHI TENG	鸡屎藤	Fevervine	T4577 <i>Paederia scandens</i>
JI SHI TENG GUO	鸡屎藤果	Fevervine Fruit	T4578 <i>Paederia scandens</i>
JI SU ZI	鸡嗉子	Evergreen Dogwood	T1696 <i>Cornus capitata</i> [Syn. <i>Dendrobenthamia capitata</i>]
JI WA CAO	鸡娃草	Littleflower Plumbagella	T5026 <i>Plumbagella micrantha</i>
JI WU BING JIN SI TAO	近无柄金丝桃	Subsessile St.John'swort	T3365 <i>Hypericum subsessile</i>
JI XIANG CAO	吉祥草	Pink Reineckea	T5449 <i>Reineckea carnea</i>
JI XIANG RUN NAN	极香润楠*	Extreme-fragrant Machilus*	T4017 <i>Machilus odoratissima</i>
JI XIANG SHI CAO	极香薷草*	Extreme-fragrant Yarrow*	T0062 <i>Achillea fragrantissima</i>
JI XIANG YING ZHAO	极香鹰爪*	Extreme-fragrant Tailgrape*	T0655 <i>Artabotrys odoratissimus</i>
JI XIAO XIAO YUN XIANG MU	极小小芸香木*	Minima Micromelum*	T4224 <i>Micromelum minutum</i>
JI XING ZI	急性子	Garden Balsam Seed	T3412 <i>Impatiens balsamina</i>
JI XUAN HUA	棘旋花*	Mucronate Glorybind*	T1652 <i>Convolvulus erinaceus</i>
JI XUE CAO	积雪草	Asiatic Pennywort	T1311 <i>Centella asiatica</i>
JI XUE TENG GEN	鸡血藤根	Leatherleaf Millettia Root	T4243 <i>Millettia reticulata</i>
JI YAN CAO	鸡眼草	Striate Kummerowia	T3645 <i>Kummerowia striata</i>
JI YE MA BIAN CAO	戟叶马鞭草	Hastate Verbena	T6707 <i>Verbena hastata</i>
JI YE QIU HAI TANG	戟叶秋海棠	Limpricht Begonia	T0890 <i>Begonia limprichtii</i>
JI YE SHU WEI CAO	戟叶鼠尾草	Hastateleaf Sage	T5664 <i>Salvia bulleyana</i>
JI YE SUAN MO	戟叶酸膜	Hastate Dock*	T5609 <i>Rumex hastatus</i>
JI YING SU	蓟罂粟	Mexican Pricklepoppy	T0610 <i>Argemone mexicana</i>
JI YU DAN	鲫鱼胆	Treasure Maesa	T4031 <i>Maesa perlarius</i>
JI YUN SHI	棘云实	Brazil-wood	T1103 <i>Caesalpinia echinata</i>
JI ZI BAI	鸡子白	Hen's Egg-albumen	T2839 <i>Gallus gallus domesticus</i>
JI ZI HUANG	鸡子黄	Hen's Egg Yolk	T2840 <i>Gallus gallus domesticus</i>
JI ZI KE	鸡子壳	Hen's Egg Shell	T2841 <i>Gallus gallus domesticus</i>
JI ZI MU	鸡子木	Racemose Adina	T5960 <i>Sinoadina racemosa</i> [Syn. <i>Adina racemosa</i>]
JI ZONG	鸡塚	Collybia Albuminosa Sporocarp	T1623 <i>Collybia albuminosa</i>
JIA BAI HE	假百合	Hyacinth Falselily	T4443 <i>Notholirion hyacinthinum</i> [Syn. <i>Notholirion bulbuliferum</i>]
JIA BEI MU	假贝母	Paniculate Bolbostemma	T0971 <i>Bolbostemma paniculatum</i>
JIA DAN BAO JUN YANG HUAI	假单胞菌洋槐*	Pseudomonas Locust*	T5553 <i>Robinia pseudomonas</i>
JIA DI DAN CAO	假地胆草	Spicate Pseudoelephantopus	T5253 <i>Pseudoelephantopus spicatus</i>

JIA DI FENG PI	假地枫皮	Jiadifengpi Anisetree	T3402 <i>Illicium jiadifengpi</i>
JIA DONG FANG QIAN LI GUANG	假东方千里光	Pseud-oriental Groundsel*	T5899 <i>Senecio pseudoorientalis</i>
JIA DU XING CAI	家独行菜	Garden Cress	T3758 <i>Lepidium sativum</i>
JIA HONG SHU	假红树	White Mangrove	T3677 <i>Laguncularia racemosa</i>
JIA HUANG HUA YUAN ZHI	假黄花远志	Fasle Yellowflower Milkwort*	T5075 <i>Polygala fallax</i> [Syn. <i>Polygala aureocauda</i>]
JIA HUI SE JIU LI XIANG PO PO NA	假灰色九里香婆婆纳*	Thyme Speedwell*	T6730 <i>Veronica thymoides</i> ssp. <i>pseudocinerea</i>
JIA JIN DONG YING SU	假近东罂粟	Pseudoriental Poppy*	T4634 <i>Papaver pseudorientale</i>
JIA JING JIE	假荆芥	Catnip	T4413 <i>Nepeta cataria</i>
JIA JU	假蒟	Sarmentose Pepper	T4965 <i>Piper sarmentosum</i>
JIA JU ZI	假蒟子	Sarmentose Pepper Spike	T4966 <i>Piper sarmentosum</i>
JIA KU GUA	假苦瓜	Balloonvine Heartseed	T1197 <i>Cardiospermum halicacabum</i>
JIA LAN	嘉兰	Lovely Gloriosa	T2995 <i>Gloriosa superba</i>
JIA LE BI CI TONG	加勒比刺桐*	Caribbean Coralbean*	T2462 <i>Erythrina caribea</i>
JIA LEI JUE MING	加雷决明	Garretti Senna*	T1233 <i>Cassia garrettiana</i>
JIA LIAN QIAO	假连翘	Creeping Skyflower	T2295 <i>Duranta repens</i>
JIA LIAN QIAO YE	假连翘叶	Creeping Skyflower Leaf	T2296 <i>Duranta repens</i>
JIA MA BIAN	假马鞭	Jamaica Falsevalerian	T6095 <i>Stachytarpheta jamaicensis</i>
JIA MA CHI XIAN	假马齿苋	Coastal Waterhyssop	T0852 <i>Bacopa monniera</i>
JIA MA SHU	家麻树	Hazel Sterculia	T6138 <i>Sterculia foetida</i>
JIA MI	莨菪	Linden Viburnum	T6735 <i>Viburnum dilatatum</i>
JIA MIAN YU YE QIU	假面羽叶楸*	Personator Padritree*	T6142 <i>Stereospermum personatum</i>
JIA MU DOU	假木豆	Capitulum Tickclover*	T2129 <i>Desmodium cephalotes</i>
JIA NA DA BAO CHUN	加拿大报春*	Mistassini Primrose	T5200 <i>Primula mistassinica</i>
JIA NA DA CANG ER	加拿大苍耳	Canadian Cocklebur*	T6835 <i>Xanthium canadense</i>
JIA NA DA HONG DOU SHAN	加拿大红豆杉	Canadian Yew	T6309 <i>Taxus canadensis</i>
JIA NA DA HUANG QI	加拿大黄芪*	Canadian Milkvetch*	T0789 <i>Astragalus canadensis</i> var. <i>mortonii</i>
JIA NA DA WO JU	加拿大莴苣	Canada Lettuce	T3658 <i>Lactuca canadensis</i>
JIA NA DA XI XIN	加拿大细辛	Canadian Snakeroot	T0723 <i>Asarum canadense</i>
JIA NA LI HAO	加那利蒿*	Canary Island Wormwood*	T0671 <i>Artemisia canariensis</i>
JIA NA LI MEI DENG MU	加那利美登木	Canari Mayten*	T4129 <i>Maytenus canariensis</i>
JIA NA LI SHU WEI CAO	加那利鼠尾草*	Canari Sage*	T5665 <i>Salvia canariensis</i>
JIA PENG ZI YU PAN	加蓬紫玉盘	Gabon Uvaria*	T6663 <i>Uvaria klaineana</i>
JIA SHAN HU JIAO	假山胡椒		T4640 <i>Parabenzoin trilobum</i>
JIA SHUI XIAN	假水仙	False Narcissus*	T4380 <i>Narcissus pseudonarcissus</i> ssp. <i>pseudonarcissus</i>
JIA SUAN JIANG	假酸浆	Apple of Peru	T4423 <i>Nicandra physaloides</i>
JIA TUO WU	假橐吾	False Goldenray*	T3818 <i>Ligulariopsis shichuana</i>
JIA XI ZHUI XIANG CHA CAI	假细锥香茶菜	Falselittleconical Rabdosia	T5390 <i>Rabdosia coetsoides</i>
JIA YANG	加杨	Canada Poplar	T5149 <i>Populus canadensis</i>
JIA YE SHU	假叶树	Butchersbroom	T5618 <i>Ruscus aculeatus</i>
JIA YING ZHAO	假鹰爪	Chinese Desmos	T2136 <i>Desmos cochinchinensis</i> [Syn. <i>Desmos chinensis</i>]
JIA YUAN WEI	假鸢尾	False Iris*	T3470 <i>Iris spuria</i>
JIA ZE LAN	假泽兰	Heartshape Mikania	T4228 <i>Mikania cordata</i>
JIA ZHOU LI LU	加州藜芦	Californian Falsehellebore*	T6694 <i>Veratrum californicum</i>
JIA ZHOU QI YE SHU	加州七叶树	Californian Buckeye	T0199 <i>Aesculus californica</i>
JIA ZHOU SHAN SONG	加州山松	Californian Mountain Pine	T4918 <i>Pinus monticola</i>
JIA ZHOU XIA LA MEI	加州夏腊梅	Californian Allspice	T1140 <i>Calycanthus occidentalis</i>
JIA ZHU TAO	夹竹桃	Sweet-scented Oleander	T4418 <i>Nerium indicum</i>
JIA ZHU TAO MA	夹竹桃麻	Black Indian Hemp	T0551 <i>Apocynum cannabinum</i>
JIA ZI CAO	假紫草	Common Arnebia	T0649 <i>Arnebia guttata</i>

JIA ZONG ZHUANG HUA XU SHAN XIAO JU	假总状花序山小橘*	Pseudo-racemose Glycosmis*	T3009 <i>Glycosmis pseudoracemosa</i>
JIAN BAI JIAN MU	尖白坚木*	Cusplate	T0762 <i>Aspidosperma cuspa</i>
JIAN CHI BU LI KE ER CAO	尖齿布里克尔草		T1027 <i>Brickellia arguta</i> var. <i>odontolepis</i>
JIAN DENG XIN CAO	尖灯芯草	Acute Rush*	T3577 <i>Juncus acutus</i>
JIAN GAN YANG	箭杆杨	Arrowshaft Poplar	T5156 <i>Populus nigra</i> var. <i>thevestina</i>
JIAN GEN SHU	箭根薯	Arrowroot Tacca	T6275 <i>Tacca chantrieri</i> [Syn. <i>Tacca minor</i> ; <i>Tacca esquirolii</i>]
JIAN HAI LONG	尖海龙	Acute Syngnathus*	T6257 <i>Syngnathus acus</i>
JIAN JIAN AO YANG	渐尖澳杨	Acuminate Aussiepoplar*	T3273 <i>Homalanthus acuminatus</i>
JIAN JIAN MU LAN	渐尖木兰	Cucumber-tree	T4033 <i>Magnolia acuminata</i>
JIAN JIAN SUAN PAN ZI	渐尖算盘子*	Acuminate Glochidion*	T2987 <i>Glochidion acuminatum</i>
JIAN JU ZI JIN	尖距紫堇	Sharpspur Corydalis	T1745 <i>Corydalis suaveolens</i> [Syn. <i>Corydalis shearerii</i>]
JIAN LIE HAI YING SU	尖裂海罂粟	Acutelobed Hornpoppy	T2970 <i>Glaucium oxylobum</i>
JIAN MA	剑麻	Sisal Hemp-plant	T0226 <i>Agave sisalana</i>
JIAN PU ZHAI GU KE	柬埔寨古柯*	Cambodia Coca Shrub*	T2490 <i>Erythroxylum cambodianum</i>
JIAN PU ZHAI ZAO	柬埔寨枣*	Cambodia Jujube*	T6915 <i>Ziziphus cambodiana</i>
JIAN QIU LUO MAO RUI HUA	剪秋罗毛蕊花	White Mullein	T6701 <i>Verbascum lychnites</i>
JIAN RUI MAO CHA	尖锐毛茶*	Acute Antirhea*	T0536 <i>Antirhea acutata</i>
JIAN TENG BAI JIU CAO	坚挺白酒草*	Strict Conyza	T1658 <i>Conyza stricta</i>
JIAN TING MA BIAN CAO	坚挺马鞭草*	Strict Verbena*	T6710 <i>Verbena stricta</i>
JIAN WEI YU	尖尾芋	Chinese Taro	T0333 <i>Alocasia cucullata</i> [Syn. <i>Arum cucullatum</i>]
JIAN XING SI GUO XIANG CHA CAI	间型四国香茶菜	Intermediate Shiko Rabdosia*	T3526 <i>Isodon shikokiana</i> var. <i>intermedius</i>
JIAN XING YAN CAO	尖形烟草*	Acuminate Tobacco*	T4424 <i>Nicotiana acuminata</i>
JIAN XUE FENG HOU	见血封喉	Common Antiaris	T0533 <i>Antiaris toxicaria</i> [Syn. <i>Ambora toxicaria</i>]
JIAN XUE QING	见血清	Nervate Twayblade	T3863 <i>Liparis nervosa</i>
JIAN YE BAO SHI MU	尖叶饱食木*		T1030 <i>Brosimum acutifolium</i>
JIAN YE CEN	尖叶椴	Acuteleaf Ash Bark	T2780 <i>Fraxinus szaboana</i> [Syn. <i>Fraxinus chinensis</i> var. <i>acuminata</i>]
JIAN YE FAN XIE YE	尖叶番泻叶	Sharpleaf Senna Leaf	T1229 <i>Cassia acutifolia</i>
JIAN YE HUA JIAO	尖叶花椒	Acute-leaf Pricklyash*	T6859 <i>Zanthoxylum acutifolium</i>
JIAN YE LONG XUE SHU	剑叶龙血树	Swordleaf Dracaena	T2253 <i>Dracaena cochinchinensis</i>
JIAN YE QING FENG TENG	尖叶清风藤	Sharpleaf Sabia	T5638 <i>Sabia swinhoei</i>
JIAN YE SHI DA GONG LAO	尖叶十大功劳*	Oregon-grape	T4054 <i>Mahonia aquifolium</i>
JIAN YE TANG SONG CAO	尖叶唐松草	Sharpleaf Meadowrue	T6372 <i>Thalictrum acutifolium</i>
JIAN YE TIE SHU YE	剑叶铁树叶	Strictleaf Dracaena Leaf	T1684 <i>Cordyline strcta</i>
JIAN YE TOU WU GEN	箭叶橐吾根	Arrowleaf Goldenray Root	T3812 <i>Ligularia sagitta</i>
JIAN YE YE XIA ZHU	尖叶叶下珠	Sharpleaf Leafflower*	T4832 <i>Phyllanthus acuminatus</i>
JIAN YE YIN YANG HUO	箭叶淫羊藿	Sagittate Epimedium	T2402 <i>Epimedium sagittatum</i>
JIAN YE YUN XIANG CAO	尖叶芸香草*	Haplophyllum*	T3100 <i>Haplophyllum acutifolium</i>
JIAN YE ZAO	尖叶枣	Mucronated Jujube*	T6922 <i>Zizyphus mucronata</i>
JIAN YING CHAI HU	坚硬柴胡*	Thorowax	T1069 <i>Bupleurum rigidum</i>
JIAN YING XUAN GOU ZI	坚硬悬钩子*	Rigid Blackberry*	T5596 <i>Rubus rigidus</i>
JIAN ZHUANG CHANG CHUN HUA	剑状长春花	Lanceolate Periwinkle*	T1267 <i>Catharanthus lanceus</i>
JIAN ZI SU	尖紫苏	Acute Common Perilla	T4717 <i>Perilla frutescens</i> var. <i>acuta</i> [Syn. <i>Perilla frutescens</i> var. <i>purpurascens</i>]
JIAN ZI SU YE	尖紫苏叶	Acute Common Perilla Leaf	T4718 <i>Perilla frutescens</i> var. <i>acuta</i> [Syn. <i>Perilla frutescens</i> var. <i>purpurascens</i>]
JIAN ZI YU PAN	尖紫玉盘*	Acuminate Uvaria*	T6657 <i>Uvaria acuminata</i>

JIANG	酱	Soybean Paste	T3003 <i>Glycine max</i>
JIANG CAN	僵蚕		T0974 <i>Bombyx batryticatus</i>
JIANG DOU	豇豆	Cow-pea	T6754 <i>Vigna unguiculata</i>
JIANG GUO KU SHU	浆果苦树		T4886 <i>Picrodendron baccatum</i>
JIANG GUO SHU YU	浆果薯蓣	Black Bryony	T6291 <i>Tamus communis</i>
JIANG GUO XIAN	浆果苋	Frutescent Cladostachys	T2058 <i>Deeringia amaranthoides</i> [Syn. <i>Cladostachys frutescens</i>]
JIANG GUO ZI SHAN	酱果紫杉	Common Yew	T6307 <i>Taxus baccata</i>
JIANG HUANG	姜黄	Common Turmeric	T1905 <i>Curcuma longa</i>
JIANG LI MU GEN	降梨木根	Thinleaf Buckthorn Root	T5461 <i>Rhamnus leptophylla</i>
JIANG MANG	苕芒	Inflatedfruit Senna	T1247 <i>Cassia sophera</i>
JIANG NAN JUAN BAI	江南卷柏	Moellendorff Spikemoss	T5863 <i>Selaginella moellendorffii</i>
JIANG XI QING NIU DAN	江西青牛胆	Jiangxi Tinospora*	T6465 <i>Tinospora craveniana</i>
JIANG ZHEN XIANG	降真香(降香)	Odorate Rosewood	T2008 <i>Dalbergia odorifera</i>
JIANG ZI SHA JI	江孜沙棘	Jiangzi Seabuckthorn*	T3255 <i>Hippophae rhamnoides</i> subsp. <i>gyantsensis</i>
JIAO CHA CAI	角叉菜		T1384 <i>Chondrus ocelladus</i>
JIAO GAN	蕉柑	Tankan Citrus	T1516 <i>Citrus tankan</i>
JIAO GAN PI	蕉柑皮	Tankan Citrus Pericarp	T1517 <i>Citrus tankan</i>
JIAO GU LAN	绞股蓝	Fiveleaf Gynostemma	T3085 <i>Gynostemma pentaphyllum</i>
JIAO GUO MU	角果木	Common Ceriops	T1336 <i>Ceriops tagal</i> [Syn. <i>Rhizophora tagal</i>]
JIAO HAO	角蒿	Chinese Incarvillea	T3420 <i>Incarvillea sinensis</i>
JIAO MO	礁膜		T4274 <i>Monostroma nitidum</i>
JIAO NIAN XIANG CHA CAI	胶黏香茶菜	Slimy Rabdosia	T3492 <i>Isodon glutinosa</i>
JIAO RANG MU	交让木	Macropodous Daphniphyllum	T2033 <i>Daphniphyllum macropodum</i>
JIAO XI XIAN	胶豨莩	Gummy St. Paulswort*	T5949 <i>Siegesbeckia gummifer</i>
JIAO YAN CAO	胶烟草	Slimy Tobacco*	T4425 <i>Nicotiana glutinosa</i>
JIAO YU	蕉芋	Edible Canna	T1172 <i>Canna edulis</i>
JIAO ZHI HUANG TAN	交趾黄檀	Siam Rosewood	T1999 <i>Dalbergia cochinchinensis</i>
JIAO ZHI SHU WEI CAO	胶质鼠尾草	Sticky Clary	T5673 <i>Salvia glutinosa</i>
JIAO ZHI ZI	胶梔子	Gummy Gardenia*	T2881 <i>Gardenia gummifera</i>
JIAO ZHU HUA	角柱花	Blue Ceratostigma, Blue Bluesnow	T1328 <i>Ceratostigma plumbaginoides</i>
JIAO ZHUANG CHE QIAN	角状车前*	Cornuted Plantain*	T5003 <i>Plantago cornuti</i>
JIE CAI	芥菜	India Mustard	T1007 <i>Brassica juncea</i>
JIE GENG	桔梗	Balloonflower	T5011 <i>Platycodon grandiflorum</i>
JIE GU MU	接骨木	Elder*	T5707 <i>Sambucus williamsii</i>
JIE JIE LEI A WEI	结节类阿魏	Node Ferulago*	T2713 <i>Ferulago nodosa</i>
JIE JING SHI XIAN TAO	节茎石仙桃	Articulate Pholidota	T4821 <i>Pholidota articulata</i>
JIE LIAO	节蓼	Pale Persicaria	T5109 <i>Polygonum nodosum</i>
JIE MAO FEI LIAN	节毛飞廉	Wetted Thistle	T1199 <i>Carduus acanthoides</i>
JIE MAO TAI	睫毛苔	Blepharostoma*	T0953 <i>Blepharostoma trichophyllum</i>
JIE MAO YE SHU WEI CAO	睫毛叶鼠尾草*	Eyelid-leaf Sage*	T5660 <i>Salvia blepharophylla</i>
JIE XING YE TAI	截形叶苔*		T3581 <i>Jungermannia truncata</i>
JIE ZHI HONG DOU SHAN	介质红豆杉	Media Yew	T6313 <i>Taxus media</i>
JIE ZI	芥子	India Mustard Seed	T1008 <i>Brassica juncea</i>
JIN BU HUAN	金不换	Chinese Stephania	T6133 <i>Stephania sinica</i>
JIN CAO	菘草	Hispid Arthraxon	T0707 <i>Arthraxon hispidus</i>
JIN CAO	金草	Acuteangle Hedyotis	T3122 <i>Hedyotis acutangula</i>
JIN CHAI FENG WEI JUE	金钗凤尾蕨	Faurie's Brake	T5290 <i>Pteris fauriei</i> [Syn. <i>Pteris fauriei</i> var. <i>minor</i>]
JIN DAN	金弹	Meiwa Kumquat	T2758 <i>Fortunella crassifolia</i>
JIN DONG YING SU	近东罂粟	Oriental Poppy	T4632 <i>Papaver orientale</i>
JIN FA XIAN	金发藓	Common Gold-hair Moss*	T5133 <i>Polytrichum commune</i>

JIN FEI CAO	金沸草	Japanese Inula	T3433 <i>Inula japonica</i>
JIN FEN JUE	金粉蕨	Siliculose Onychium	T4504 <i>Onychium siliculosum</i>
JIN GAN	金柑	Japanese Kumquat	T2759 <i>Fortunella japonica</i>
JIN GANG DA	金刚大	Japanese Croomia	T1810 <i>Croomia japonica</i>
JIN GU CAO	筋骨草	Ciliate Bugle	T0262 <i>Ajuga ciliata</i>
JIN GUANG JU	金光菊	Cutleaf Coneflower	T5604 <i>Rudbeckia laciniata</i>
JIN GUO LAN	金果榄	Hairystalk Tinospora	T6463 <i>Tinospora capillipes</i>
JIN HUA MI HOU TAO	金花猕猴桃	Goldflower Actinidia	T0159 <i>Actinidia chrysantha</i>
JIN HUA XIAO BO	金花小檗	Wilson Barberry	T0920 <i>Berberis wilsonae</i>
JIN HUANG CAO SU	金黄糙苏*	Goldenyellow Jerusalem sage*	T4806 <i>Phlomis aurea</i>
JIN HUANG CE JIN ZHAN HUA	金黄侧金盏花	Golden Adonis	T0186 <i>Adonis chrysocyatha</i>
JIN HUANG CHAI HU	金黄柴胡	Goldenyellow Thorowax	T1056 <i>Bupleurum aureum</i>
JIN HUANG GE JUN	金黄草茵	Goldenyellow Thelephora*	T6420 <i>Thelephora aurantiotincta</i>
JIN HUANG JIN	金黄堇	Golden Corydalis	T1707 <i>Corydalis aurea</i>
JIN HUANG LIAN	金黄莲*	American Lotus	T4396 <i>Nelumbo lutea</i>
JIN JI ER	锦鸡儿	Peashrub*	T1188 <i>Caragana chamlagu</i>
JIN JI LE	金鸡勒	Ledger Cinchona	T1428 <i>Cinchona ledgeriana</i>
JIN JI WEI	金鸡尾	Figurleaved Brake	T5289 <i>Pteris dactylina</i>
JIN JI WEI BA CAO GEN	金鸡尾巴草根	Needle-leaf Fern*	T4026 <i>Macrothelypteris oligophlebia</i>
JIN JI ZE LAN	近戟泽兰	Halberd-like Eupatorium*	T2577 <i>Eupatorium subhastatum</i>
JIN JIN BANG	金金棒	Sericeous Cinquefoil	T5186 <i>Potentilla reptans</i> var. <i>sericophylla</i>
JIN JIN XIANG	金锦香	Chinese Osbeckia	T4549 <i>Osbeckia chinensis</i>
JIN JU	金橘	Oval Kumquat	T2760 <i>Fortunella margarita</i>
JIN JU YE	金橘叶	Oval Kumquat Leaf	T2761 <i>Fortunella margarita</i>
JIN LIAN HUA	金莲花	Chinese Globeflower	T6552 <i>Trollius chinensis</i> [Syn. <i>Trollius asiaticus</i> var. <i>chinensis</i>]
JIN LIAN HUA ZHU SHI DOU	金链花猪屎豆	Laburnum Crotalaria*	T1824 <i>Crotalaria laburnifolia</i>
JIN LIAN MU	金莲木	Entire Ochna	T4465 <i>Ochna integerrima</i>
JIN MAO ER CAO	金毛耳草	Goldhair Hedyotis	T3125 <i>Hedyotis chrysotricha</i> [Syn. <i>Oldenlandia chrysotricha</i>]
JIN MAO GOU	金毛狗	Scythian Lamb	T1411 <i>Cibotium barometz</i> [Syn. <i>Polypodium barometz</i>]
JIN PING GE NA XIANG	金屏哥纳香	Leiocarpus Goniotalamus	T3049 <i>Goniotalamus leiocarpus</i>
JIN QIAN KU YE CAO	金钱苦叶草	Gold saxifrage Herb	T1403 <i>Chrysosplenium grayanum</i>
JIN QIAN PU	金钱蒲	Grassleaf Sweetflag	T0144 <i>Acorus gramineus</i>
JIN QIAN PU YE	金钱蒲叶	Grassleaf Sweetflag Leaf	T0145 <i>Acorus gramineus</i>
JIN QIN ZHUANG BA DOU	近琴状巴豆	Lyrate-like Croton*	T1857 <i>Croton sublyratus</i>
JIN QUE ER	金雀儿	Scotch Broom	T1991 <i>Cytisus scoparius</i> [Syn. <i>Spartium scoparium</i>]
JIN QUE GEN	金雀根	Chinese Peashrub Root	T1191 <i>Caragana sinica</i>
JIN SE MU JU	金色母菊*	Aureate Mayweed*	T4123 <i>Matricaria aurea</i>
JIN SHU HUANG YANG	锦熟黄杨	European Boxwood	T1094 <i>Buxus sempervirens</i>
JIN SHUA BA	金刷把	Fallax Cladonia Lichen	T1525 <i>Cladonia fallax</i>
JIN SI DAI	金丝带	Green Alectoria Filament	T0298 <i>Alectoria vivens</i>
JIN SI MA WEI LIAN	金丝马尾连	Gold-enthrad Meadowrue	T6389 <i>Thalictrum glandulosissimum</i>
JIN SI MEI	金丝梅	Spreading St. John's wort	T3360 <i>Hypericum patulum</i>
JIN SI SHUA	金丝刷	Gold-wire Brush*	T3775 <i>Lethariella cladonioides</i>
JIN SI TAO GUO SHI	金丝桃果实	Chinese St. John's wort Fruit	T3344 <i>Hypericum chinense</i>
JIN SU LAN	金粟兰	Chulan Tree	T1374 <i>Chloranthus spicatus</i>
JIN TIE SUO	金铁锁	Tuniclike Psammosilene	T5250 <i>Psammosilene tunicoides</i>
JIN WU MAO HUI YAN XIANG CHA CAI	近无毛灰岩香茶菜	Calcicole Rabdosia	T3483 <i>Isodon calcicola</i>
JIN WU MAO SAO JU	近无毛掃菊*	Longflower Bloomdaisy	T4735 <i>Pertya glabrescens</i>

JIN XIAN CAO	金线草	Longtube Ground Ivy	T2973 <i>Glechoma longituba</i>
JIN YAO	金腰	Alternate-leaved Golden-saxifrage	T1402 <i>Chrysosplenium alternifolium</i>
JIN YAO DAI	金腰带	Goldon-belt*	T3776 <i>Lethariella zahlbruckneri</i>
JIN YE ZI	金叶子	Yunnan Craibiodendron	T1767 <i>Craibiodendron yunnanese</i>
JIN YI HUANG QI	金翼黄芪	Golden-wing Milkvetch*	T0791 <i>Astragalus chrysopterus</i>
JIN YIN HUA	金银花(忍冬)	Japanese Honeysuckle	T3912 <i>Lonicera japonica</i>
JIN YING YE	金樱叶	Cherokee Rose Leaf	T5567 <i>Rosa laevigata</i>
JIN YING ZI	金樱子	Cherokee Rose Seed	T5568 <i>Rosa laevigata</i>
JIN YU	金鱼	Crucian Carp	T1194 <i>Carassius auratus</i>
JIN YU CAO	金鱼草	Common Snapdragon	T0537 <i>Antirrhinum majus</i>
JIN ZHAN JU	金盏菊	Potmarigold Calendula	T1113 <i>Calendula officinalis</i>
JIN ZHONG HUA	金钟花	Greenstem Forsythia	T2757 <i>Forsythia viridissima</i>
JIN ZI TA MU LAN	金字塔木兰*	Pyramidal Magnolia*	T4047 <i>Magnolia pyramidata</i>
JIN ZI TA XING QIAN LI GUANG	金字塔形千里光	Pyramidal Groundsel*	T5900 <i>Senecio pyramidatus</i>
JING DIAN MEI	茎点霉*		T4824 <i>Phoma lingam</i>
JING DOU	荆豆	Common Gorse	T6590 <i>Ulex europaeus</i>
JING GU NU	梗谷奴	Fungus-infected Rice Spike	T6655 <i>Ustilaginoidea virens</i>
JING HONG AN LUO	景洪暗罗	Jinghong Greenstar	T5064 <i>Polyalthia cheliensis</i>
JING HUA HUA YE CAI	茎花花椰菜*	Cauliflory Brassica*	T1015 <i>Brassica oleracea</i> var. <i>botrytis</i> subvar. <i>cauliflora</i>
JING JI GUA TAI MU	荆棘瓜泰木*		T3071 <i>Guatteria dumetorum</i>
JING JI SHU YU	荆棘薯蕷*	Thorny Yam*	T2196 <i>Dioscorea dumetorum</i>
JING JIE	荆芥	Fineleaf Schizonepeta	T5804 <i>Schizonepeta tenuifolia</i> [Syn. <i>Nepeta tenuifolia</i>]
JING JIE HUA	旌节花	praecox Stachyurus*	T6096 <i>Stachyurus praecox</i>
JING JIE YE SHI ER CAO	荆芥叶狮耳草	Nepetaleaf Leontis	T3744 <i>Leonotis nepetaefolia</i>
JING LI MI HOU TAO	京梨猕猴桃	Henry Actinidia	T0157 <i>Actinidia callosa</i> var. <i>henryi</i>
JING MI	粳米	Rice	T4545 <i>Oryza sativa</i>
JING NI PING	京尼平	Genipa	T2900 <i>Genipa americana</i>
JING SHENG HUA AI SUO LUO NA	茎生花艾索罗那*		T3537 <i>Isolona cauliflora</i>
JING XIANG MAO	精香茅	Citronella-grass	T1944 <i>Cymbopogon nardus</i>
JING YA MA YE RUI XIANG	茎亚麻叶瑞香	Garou Bush	T2025 <i>Daphne gnidium</i>
JIU	酒	Liquor	T3869 Liquor
JIU BI YING	救必应	Ovateleaf Holly	T3398 <i>Ilex rotunda</i>
JIU BING YE	酒饼叶	Malay Glycosmis	T3008 <i>Glycosmis pentaphylla</i>
JIU CAI	韭菜	Tuber Onion	T0322 <i>Allium tuberosum</i>
JIU CENG FENG	九层风		T1530 <i>Cladostachys amaranthoides</i> [Syn. <i>Achyranthes amaranthoides</i> ; <i>Cladostachys frutescens</i> ; <i>Deeringia amaranthoides</i>]
JIU CONG	韭葱	Leek	T0317 <i>Allium porrum</i>
JIU HUA DA E XIANG CHA CAI	九华大萼香茶菜	Jiuhua Largesepal Rabdosia	T3512 <i>Isodon macrocalyx</i> var. <i>jiuhua</i>
JIU JIE CHA	九节茶	Glabrous Sarcandra	T5730 <i>Sarcandra glabra</i> [Syn. <i>Chloranthus glaber</i>]
JIU LI XIANG	九里香	Common Jasminorange	T4323 <i>Murraya paniculata</i> [Syn. <i>Chalcas paniculata</i>]
JIU LI XIANG GEN	九里香根	Common Jasminorange Root	T4324 <i>Murraya paniculata</i> [Syn. <i>Chalcas paniculata</i>]
JIU ZI	韭子	Tuber Onion Seed	T0323 <i>Allium tuberosum</i>
JU AN	巨桉	Toolur	T2511 <i>Eucalyptus grandis</i>
JU CHI SANG	锯齿桑*	Serrate Mulberry*	T4299 <i>Morus serrata</i>
JU CHI SHI SONG	锯齿石松	Sawtooth Clubmoss*	T3977 <i>Lycopodium serratum</i> var. <i>thunbergii</i>
JU DA JI	巨大戟	Enormous Euphorbia	T2593 <i>Euphorbia ingens</i>

JU DA LAN CI TOU	巨大蓝刺头*	Grand Globethistle*	T2315 <i>Echinops giganteus</i>
JU DA MI ZI LAN	巨大米仔兰*	Grand Aglaia*	T0237 <i>Aglaia grandis</i>
JU GUO RONG	聚果榕	Racemose Fig*	T2724 <i>Ficus racemosa</i>
JU HAO	菊蒿	Common Tansy	T6298 <i>Tanacetum vulgare</i>
JU HE	橘核	Tangerine Seed	T1504 <i>Citrus reticulata</i>
JU HUA	菊花	Florists Chrysanthemum Flower	T1395 <i>Chrysanthemum morifolium</i> [Syn. <i>Dendranthema morifolium</i>]
JU HUA GUO LU HUANG	聚花过路黄	Denseflower Loosestrife	T4000 <i>Lysimachia congestiflora</i>
JU HUA HUANG LIAN	菊花黄连	Yellowflower Corydalis	T1731 <i>Corydalis pallida</i>
JU HUA HUANG TAN	聚花黄檀*	Congested-flower Rosewood*	T2000 <i>Dalbergia congestiflora</i>
JU HUA SHI HU	聚花石斛*	Thyrseflower Dendrobium	T2110 <i>Dendrobium thyrsiflorum</i>
JU HUA XUE DAN	巨花雪胆	Giant Hemsleya	T3206 <i>Hemsleya gigantea</i>
JU HUANG YING SU	桔黄罂粟*	Orange Poppy*	T4622 <i>Papaver auranticum</i>
JU JIANG YE	蒟酱叶	Betel Pepper Leaf	T4937 <i>Piper betle</i>
JU MAO LEI A WEI	具毛类阿魏*		T2712 <i>Ferulago capillaries</i>
JU MI JIN HE HUAN	具蜜金合欢	Honeyed Acacia	T0026 <i>Acacia mellifera</i>
JU MI SHU WEI CAO	具蜜鼠尾草	Melliferous Sage*	T5678 <i>Salvia mellifera</i>
JU PI	橘皮(陈皮)	Tangerine Pericarp	T1506 <i>Citrus reticulata</i>
JU QU	菊苣	Common Chicory	T1415 <i>Cichorium intybus</i>
JU REN ZHU	巨人柱		T1209 <i>Carnegiea gigantea</i>
JU SAN HUA YE CAI	聚伞花椰菜	Cymose Brassica*	T1016 <i>Brassica oleracea</i> var. <i>botrytis</i> subvar. <i>cymosa</i>
JU SE GOU SUAN JIANG	橘色沟酸浆	Orange Monkeyflower*	T4251 <i>Mimulus aurantiacus</i>
JU SE MAO RUI HUA	橘色毛蕊花*	Orange Mullein	T6702 <i>Verbascum phlomoides</i>
JU SHAN	巨杉	Giant Sequoia	T5917 <i>Sequoia gigantea</i>
JU SHI QIE	菊氏茄*	Juzepczuk Nightshade*	T6002 <i>Solanum juzepczukii</i>
JU TAI XIANG CHA CAI	苴苔香茶菜	Gesnerialike Rabdosia	T3491 <i>Isodon gesneroides</i>
JU YU	菊芋	Jerusalem Artichoke	T3155 <i>Helianthus tuberosus</i>
JU YUAN	枸橼	Medicinal Citron	T1498 <i>Citrus medica</i>
JU YUAN YE	枸橼叶	Medicinal Citron Leaf	T1499 <i>Citrus medica</i>
JU YUAN YE HUANG QI	矩圆叶黄芪*	Oblongleaf Milkvetch*	T0799 <i>Astragalus miser</i> var. <i>oblongifolia</i>
JU YUAN YE LONG NAO	矩圆叶龙脑香*	Oblong-leaf Borneol Oil-Resin*	T2276 <i>Dryobalanops oblongifolia</i>
XIANG			
JU ZI JIN	巨紫堇	Gigantic Corydalis*	T1716 <i>Corydalis gigantea</i>
JUAN BAI	卷柏	Tamariskoid Spikemoss	T5869 <i>Selaginella tamariscina</i>
JUAN DAN	卷丹	Tiger Lily	T3839 <i>Lilium tigrinum</i> [Syn. <i>Lilium lancifolium</i>]
JUAN MAO HUANG TAN	绢毛黄檀	Sericeous-leaf Rosewood	T2012 <i>Dalbergia sericea</i>
JUAN MAO KUO BAO JU	绢毛阔苞菊*	Sericeous Pluchea*	T5025 <i>Pluchea sericea</i>
JUAN MAO QIANG WEI	绢毛蔷薇	Silky Rose	T5573 <i>Rosa sericea</i>
JUAN QIAO YUAN WEI	卷鞘鸢尾	Potantin Iris	T3466 <i>Iris potaninii</i>
JUE	蕨	Eastern Bracken Fern	T5284 <i>Pteridium aquilinum</i> var. <i>latiusculum</i>
JUE CHUANG	爵床	Creeping Rostellularia	T5576 <i>Rostellularia procumbens</i> [Syn. <i>Justicia procumbens</i>]
JUE MING ZI	决明子	Sickle Senna Seed	T1250 <i>Cassia tora</i>
JUN QIAN ZI	君迁子	Dateplum Persimmon	T2222 <i>Diospyros lotus</i>
JUN ZI LAN	君子兰	Scarlet Kafirlily	T1578 <i>Clivia miniata</i>
KA BU LI FENG DOU CAI	卡布里蜂斗菜	Kabliki Butterbur*	T4741 <i>Petasites kablikianus</i>
KA FEI HUANG KUI	咖啡黄葵	Edible Abelmoschus	T3240 <i>Hibiscus esculentus</i>
KA FU LA LUO FU MU	卡夫拉萝芙木	Caffra Devilpepper*	T5430 <i>Rauwolfia caffra</i>
KA LA BA DAN SHEN	卡拉巴丹参	Karaba Sage*	T5676 <i>Salvia karabachensis</i>
KA LI YU RUI	卡里玉蕊		T1204 <i>Careya arborea</i>
KA LUO JIN HE HUAN	卡罗金合欢*	Karoo Acacia	T0022 <i>Acacia karroo</i>

KA LUO LAI NA CUI QUE	卡罗来纳翠雀*	Carolina Larkspur*	T2065 <i>Delphinium carolinianum</i>
KA LUO LAI NA DI DAN CAO	卡罗来纳地胆草	Carolina Elephantfoot*	T2331 <i>Elephantopus carolinianus</i>
KA LUO LAI NA SHI SONG	卡罗来纳石松*	Carolina Clubmoss*	T3967 <i>Lycopodium carolinianum</i>
KA MAI LONG JIN LIAN MU	喀麦隆金莲木	Cameroon Ochna*	T4464 <i>Ochna calodendron</i>
KA MAI LONG XIN FO NI A	喀麦隆辛佛尼阿*	Cameroon Symphonia*	T6242 <i>Symphonia globulifera</i>
KA MEI XIANG CHA CAI	卡美香茶菜	Kamei Rabdosia*	T3498 <i>Isodon kameba</i>
KA MING BA DOU	卡明巴豆*	Cuming Croton*	T1842 <i>Croton cumingii</i>
KA SHI QIAN GOU ZAO	卡氏前沟藻		T0429 <i>Amphidinium carterae</i>
KA SI HAO	卡斯蒿*	Caruth Wormwood*	T0673 <i>Artemisia caruthii</i>
KA WA HU JIAO	卡瓦胡椒	Kava Pepper	T4955 <i>Piper methysticum</i>
KA XI YA SONG	卡西亚松	Khasya Pine	T4911 <i>Pinus kesiya</i>
KA ZHU BA DOU	卡朱巴豆		T1839 <i>Croton cajucara</i>
KAI KOU JIAN	开口箭	Chinese Tupistra	T6566 <i>Tupistra chinensis</i>
KAI LUO HUANG QI	开罗黄芪	开罗 Milkvetch*	T0797 <i>Astragalus kahiricus</i>
KAI SHI DANG GUI	凯氏当归*	Keislce Angelica*	T0487 <i>Angelica keislcei</i>
KAI TE LENG ZHU MU	凯特棱柱木	Kaith Ramin*	T3052 <i>Gonystylus keithii</i>
KAI ZHAN XIANG CHA CAI	开展香茶菜	Spreading Rabdosia*	T3485 <i>Isodon effusa</i>
KAN CHA JIA MAO LIAN CAI	堪察加毛莲菜	Kamchatka Oxtongue	T4885 <i>Picris kamschatica</i>
KAN MAI NIANG ZHUANG SHA CAO	看麦娘状莎草	Foxtail-like Galingale	T1973 <i>Cyperus alopecuroides</i>
KANG DING CUI QUE HUA	康定翠雀花	Kangting Larkspur	T2087 <i>Delphinium tatsienense</i>
KANG DING YU ZHU	康定玉竹	Pratt Solomonseal	T5094 <i>Polygonatum prattii</i>
KANG LI YA DAN ZI	抗痢鸦胆子	Antidysenteric Brucea*	T1037 <i>Brucea antidysenterica</i>
KANG PI DU MAO XUAN HUA	康毗毒毛旋花*	Kombe Strophanthus*	T6157 <i>Strophanthus kombe</i>
KAO MING GE MU	考明格木	Couminga Erythrophleum*	T2484 <i>Erythrophleum couminga</i>
KE AI HUANG QIN	可爱黄芩*	Delightful Skullcap*	T5832 <i>Scutellaria amabilis</i>
KE AI SHI HU	可爱石斛	Delightful Dendrobium	T2095 <i>Dendrobium amoenum</i>
KE DI SI WANG ZHE JUN	柯蒂斯网褶菌*	Curtisi Paxillus*	T4680 <i>Paxillus curtisii</i>
KE KE	可可	Cocoa	T6423 <i>Theobroma cacao</i>
KE LE TENG HUANG	可乐藤黄*	Kola Garcinia*	T2860 <i>Garcinia kola</i>
KE LEI NI JUE MING	克雷尼决明	Kleini Senna*	T1235 <i>Cassia kleinii</i>
KE MING XI LUO FU MU	柯明西萝芙木	Cummins Devilpepper*	T5433 <i>Rauwolfia cumminsii</i>
KE MO SEN QIE	克默森茄	Commerson Nightshade*	T5995 <i>Solanum commersonii</i>
KE NAN SHU	柯楠树	Corinan Tree*	T1752 <i>Corynanthe johimbe</i>
KE SHEN MI ER CUI QUE	克什米尔翠雀	Kashmir Larkspur	T2066 <i>Delphinium cashmerianum</i>
KE SHI FAN YING TAO	可食番樱桃*	Edible Eugenia*	T2532 <i>Eugenia edulis</i>
KE SHI HAO	克氏蒿*	Klotzsch Wormwood*	T0679 <i>Artemisia klotzschiana</i>
KE SHI MEI DENG MU	克氏美登木*	Krukov Mayten*	T4136 <i>Maytenus krukovii</i>
KE SHI MI ZI LAN	可食米仔兰*	Edible Aglaia*	T0233 <i>Aglaia edulis</i>
KE TENG ZI	榼藤子	Climbing Entada Seed	T2363 <i>Entada phaseoloides</i> [Syn. <i>Lens phaseoloides</i>]
KE XI JIA SONG	科西嘉松*	Corsican Pine	T4914 <i>Pinus laricio</i>
KE YI YI SHOU SHEN	可疑翼手参		T1625 <i>Colochirous anceps</i>
KEN NI YA CI TONG	肯尼亚刺桐	Kenya Coralbean*	T2461 <i>Erythrina burttii</i>
KEN NI YA HUI YE	肯尼亚灰叶	Kenya Tephrosia*	T6331 <i>Tephrosia aequilata</i>
KEN NI YA MO YAO	肯尼亚没药	Kenya Myrrhree*	T1636 <i>Commiphora kua</i> var. <i>gowllo</i>
KEN NI YA WEN SHU LAN	肯尼亚文殊兰*	Kenya Crinum*	T1798 <i>Crinum kirkii</i>
KEN NI YA XIAN SUAN QIANG	肯尼亚威酸蕈	Kenya Embelia*	T2350 <i>Embelia schimperii</i>
KONG QUE CAO	孔雀草	French Marigold	T6282 <i>Tagetes patula</i>
KONG SHI CHUN	孔石莼	Pertusate Ulva Frond	T6600 <i>Ulva pertusa</i>
KONG XIN XIAN	空心苋	Alligator Alternanthera	T0379 <i>Alternanthera philoxeroides</i>
KU A MO YAO	库阿没药*	Kua Myrrhree*	T1635 <i>Commiphora kua</i>
KU AO	苦苣	Chinese Thistle	T1448 <i>Cirsium chinense</i>

KU BAO	桔苞	Monarch-of-the-East	T5747 <i>Sauromatum guttatum</i>
KU CAO	苦草	Eelgrass	T6683 <i>Vallisneria spiralis</i>
KU DI DAN	苦地胆	Scabrous Elephantfoot	T2334 <i>Elephantopus scaber</i>
KU DI DING	苦地丁	Bunge Corydalis	T1709 <i>Corydalis bungeana</i>
KU DING CHA	苦丁茶	Plumleaf Cratoxylum	T1785 <i>Cratoxylum prunifolium</i>
KU DING CHA DONG QING	苦丁茶冬青	Kudincha Holly	T3392 <i>Ilex kudingcha</i>
KU DOU GEN	苦豆根	Foxtail-like Sophora Root*	T6028 <i>Sophora alopecuroides</i>
KU DOU ZI	苦豆子	Foxtail-like Sophora	T6029 <i>Sophora alopecuroides</i>
KU GUA	苦瓜	Balsampear	T4263 <i>Momordica charantia</i>
KU HAO	苦蒿	Blin Conyza	T1655 <i>Conyza blinii</i>
KU HE LONG DAN	库赫龙胆*	Koch Gentian*	T2914 <i>Gentiana kochiana</i>
KU HONG GU	苦红菇	Bitter Russula	T5624 <i>Russula rosacea</i>
KU HUANG GUA	苦黄瓜	Bitter Cucumber*	T1879 <i>Cucumis sativus</i> var. <i>hanzil</i>
KU LANG SHU	苦郎树	Unarmed Glorybower	T1566 <i>Clerodendrum inerme</i>
KU LI MU YE	苦槠木叶	Retuse Ash Leaf	T2770 <i>Fraxinus insularis</i>
KU LIAN PI	苦楝皮	Chinaberry-tree Bark	T4156 <i>Melia azedarach</i>
KU LIAN SHI	苦楝实	Chinaberry-tree Fruit	T4157 <i>Melia azedarach</i>
KU LIAN YE	苦楝叶	Chinaberry-tree Leaf*	T4158 <i>Melia azedarach</i>
KU MA DOU	苦马豆	Saline Swainsonia	T6210 <i>Swainsonia salsula</i> [Syn. <i>Sphaerophysa salsula</i>]
KU MANG HUANG JIN	库莽黄堇	Govan Corydalis	T1718 <i>Corydalis govaniana</i>
KU MU	苦木	Indian Quassia-wood	T4881 <i>Picrasma quassioides</i> [Syn. <i>Picrasma ailanthoides</i>]
KU QIAO MAI	苦荞麦	Tartarian Buckwheat	T2661 <i>Fagopyrum tataricum</i>
KU RUO LONG DAN	库若龙胆*	Kuroo Gentian*	T2915 <i>Gentiana kuroo</i>
KU SHAN NAI	苦山柰	Bitter	T3621 <i>Kaempferia marginata</i>
KU SHEN	苦参	Lightyellow Sophora	T6031 <i>Sophora flavescens</i> [Syn. <i>Sophora angustifolia</i>]
KU SHEN SHI	苦参实	Lightyellow Sophora Seed	T6032 <i>Sophora flavescens</i> [Syn. <i>Sophora angustifolia</i>]
KU SHENG	苦绳	Chinese Dregea	T2262 <i>Dregea sinensis</i>
KU SHI LIAN	苦石莲	Whiteflower Caesalpinia	T1106 <i>Caesalpinia minax</i>
KU SHU PI	苦树皮	Indian Quassia-wood Bark	T4882 <i>Picrasma quassioides</i> [Syn. <i>Picrasma ailanthoides</i>]
KU TAN ZI	苦檀子	Thickfruit Millettia	T4240 <i>Millettia pachycarpa</i>
KU WEI DUI XIN JU	苦味堆心菊	Bitterness Sneezeweed*	T3131 <i>Helenium amarum</i>
KU WEI YUAN ZHI	苦味远志	Bitter Milkwort*	T5070 <i>Polygala amarella</i>
KU XIANG SHU	苦香树	Cascarilla	T1844 <i>Croton eluteria</i>
KU XUAN SHEN	苦玄参	Common Bitterfigwort	T4884 <i>Picria felterrae</i>
KU YA DAN ZI	苦鸦胆子	Bitter Brucea*	T1036 <i>Brucea amarissima</i>
KU YE DAO HUANG BAI	库页岛黄柏	Sachaline Corktree*	T4794 <i>Phellodendron sachalinense</i>
KU YE DAO ZE LAN	库页岛泽兰	Sachalin Eupatorium*	T2573 <i>Eupatorium sachalinense</i> [Syn. <i>Eupatorium glehni</i>]
KU YE WU TOU	库页乌头*	Sachalin Monkshood*	T0127 <i>Aconitum sachalinense</i>
KU YUAN ZHI	苦远志	Racemed Milkwort	T5081 <i>Polygala polygama</i>
KU ZHI	苦蕒	Cutleaf Groundcherry	T4848 <i>Physalis angulata</i>
KU ZHI	毛酸浆	Downy Groundcherry	T4854 <i>Physalis pubescens</i>
KUAI GEN CHUI TOU JU	块根垂头菊	Root-tuber Cremanthodium	T1786 <i>Cremanthodium ellisii</i>
KUAI JING CAO SU	块茎糙苏	Tuberousroot Jerusalem sage	T4813 <i>Phlomis tuberosa</i>
KUAI JING GE	块茎葛*	Tuberous Kudzu vine*	T5321 <i>Pueraria tuberosa</i>
KUAI JING MA DOU LING	块茎马兜铃	Tuberous Dutchmans pipe	T0641 <i>Aristolochia tuberosa</i>
KUAI JING MA LI JIN	块茎马利筋	Tuberous Milkweed	T0741 <i>Asclepias tuberosa</i>
KUAI JING SHUI SU	块茎水苏	Chinese Artichoke	T6094 <i>Stachys tuberifera</i>

KUAI JING XI MEN FEI CAO	块茎西门肺草*	Tuberous Comfrey	T6248 <i>Symphytum tuberosum</i>
KUAI JING ZI JIN	块茎紫堇	Tuberous Corydalis*	T1748 <i>Corydalis tuberosa</i>
KUAN BAO SHI DA GONG LAO	宽苞十大功劳	Broad-bracteate Mahonia	T4061 <i>Mahonia eurybracteata</i>
KUAN DONG HUA	款冬花	Common Coltsfoot	T6574 <i>Tussilago farfara</i>
KUAN SHE TUO WU	宽舌橐吾	Broad-tongue Goldenray*	T3811 <i>Ligularia platyglossa</i>
KUAN YE GE NI DI MU	宽叶格尼迪木		T3038 <i>Gnidia latifolia</i>
KUAN YE KUO BAO JU	宽叶阔苞菊*	Broadleaf Pluchea*	T0848 <i>Baccharis latifolia</i>
KUAN YE MAI MA TENG	宽叶买麻藤	Broadleaf Jointfir	T3031 <i>Gnetum latifolium</i>
KUAN YE MEI YUAN ZHI	宽叶美远志	Broadleaf Milkwort*	T5085 <i>Polygala senega</i> var. <i>latifolia</i>
KUAN YE QIAN LI GUANG	宽叶千里光	Broadleaf Groundsel*	T5897 <i>Senecio platyphyllus</i>
KUAN YE QIANG HUO	宽叶羌活	Forbes Notopterygium	T4445 <i>Notopterygium forbesii</i> [Syn. <i>Notopterygium franchetii</i>]
KUAN YE SHAN YUE GUI	宽叶山月桂	Mountain Laurel	T3623 <i>Kalmia latifolia</i>
KUAN YE WU TAN	宽叶乌檀	Broadleaf Fatheadtree*	T4390 <i>Nauclea latifolia</i>
KUAN YE XIANG PU	宽叶香蒲	Broadleaf Cattail Pollen	T6587 <i>Typha latifolia</i>
KUAN YU XIAN JUE	宽羽线蕨	Broad-pinna Colysis	T1629 <i>Colysis pothifolia</i> [Syn. <i>Hemionitis pothifolia</i>]
KUI BAN ER YE TAI	盔瓣耳叶苔	Armet-petal Ear-leaf Muscus*	T2802 <i>Frullania muscicola</i>
KUI HAO	魁蒿	First Wormwood	T0689 <i>Artemisia princeps</i>
KUN BU	昆布	Kelp Thallus	T3678 <i>Laminaria japonica</i>
KUN LAN SHU	昆栏树	Wheelstamentree	T6549 <i>Trochodendron aralioides</i>
KUN MING CHAI HU	昆明柴胡*	Kunming Thorowax*	T1064 <i>Bupleurum kunmingense</i>
KUN MING JI XUE TENG	昆明鸡血藤	Diels Millettia	T4234 <i>Millettia dielsiana</i>
KUN MING SHAN HAI TANG	昆明山海棠	Glaucousback Threewingnut	T6540 <i>Tripterygium hypoglaucum</i>
KUN MING XIANG CHA CAI	昆明香茶菜	Kunming Rabdosia*	T3499 <i>Isodon kunmingensis</i>
KUO BAO JU	阔苞菊	Indian Pluchea	T0847 <i>Baccharis indica</i> [Syn. <i>Pluchea indica</i>]
KUO GUO JI YING SU	阔果蓟罂粟	Platyangle Pricklepoppy*	T0611 <i>Argemone platyceras</i>
KUO JIA HE HUAN	阔荚合欢	Siris-acacia	T0293 <i>Albizzia lebbek</i>
KUO YE GU SUI BU	阔叶骨碎补	Broadleaf Davallia	T2054 <i>Davallia solida</i>
KUO YE LUO FU MU	阔叶萝芙木	Broadleaf Devilpepper	T5435 <i>Rauwolfia latifrons</i>
KUO YE MI HOU TAO	阔叶猕猴桃	Broadleaf Actinidia	T0163 <i>Actinidia latifolia</i>
KUO YE OU NV ZFEN	阔叶欧女贞	Tree Phyllirea	T4797 <i>Phillyrea latifolia</i>
KUO YE SHAN MAI DONG	阔叶山麦冬	Broadleaf Liriope*	T3873 <i>Liriope platyphylla</i>
KUO YE XIE CAO	阔叶缬草	Broadleaf Common Valeriana	T6680 <i>Valeriana officinalis</i> var. <i>latifolia</i>
KUO ZHANG SONG YE JU	扩张松叶菊	Expansum Fig*	T4201 <i>Mesembryanthemum expansum</i>
LA BA CHA	喇叭茶	Crystal Tea	T3735 <i>Ledum palustre</i>
LA BA FEN SHI RUI	喇叭粉石蕊		T1523 <i>Cladonia chlorophaea</i>
LA BA ZHUANG DUO GUO SHU	喇叭状多果树*		T5017 <i>Pleiocarpa tubicina</i>
LA BO HE	辣薄荷	Pepper Mint	T4186 <i>Mentha piperita</i>
LA GEN	辣根	Horseradish	T0647 <i>Armoracia lapathifolia</i>
LA GEN HE GUO MU	辣根核果木*	Armoracia Drypetes*	T2288 <i>Drypetes armoracia</i>
LA JIAO	辣椒	Bush Redpepper	T1187 <i>Capsicum frutescens</i>
LA KOU SHA MIAN BAO GUO	拉口沙面包果	Lakoocha Artocarpus*	T0717 <i>Artocarpus lakoocha</i>
LA LIAO	辣蓼	Flaccid Knotweed	T5105 <i>Polygonum hydropiper</i> var. <i>flaccidum</i> [Syn. <i>Polygonum flaccidum</i>]
LA MEI HUA	腊梅花	Wintersweet Bud	T1366 <i>Chimonanthus fragrans</i> [Syn. <i>Chimonanthus praecox</i>]
LA QIAN LI GUANG	辣千里光	Smirch Groundsel*	T5908 <i>Senecio sceleratus</i>
LA RU GU	辣乳菇	Peppery Milky	T3653 <i>Lactarius piperatus</i> [Syn. <i>Agaricus piperatus</i>]
LA SHI LU HUI	拉氏芦荟*	Ruspol Aloe*	T0343 <i>Aloe ruspoliana</i>
LA ZHI MU JIANG ZI	蜡质木姜子*	Waxy Litse*	T3895 <i>Litsea sebifera</i>
LA ZHU GUO	蜡烛果	Corniculate Aegiceras	T0194 <i>Aegiceras corniculatum</i>

LAI FU	莱菔	Garden Radish	T5419 <i>Raphanus sativus</i>
LAI FU ZI	莱菔子	Garden Radish Seed	T5420 <i>Raphanus sativus</i>
LAI JIANG TENG	来江藤	Hance Brandisia	T1003 <i>Brandisia hancei</i>
LAI KE BA DOU	莱克巴豆	Lechler Croton*	T1849 <i>Croton lechleri</i>
LAI MENG	来檬	Lime	T1466 <i>Citrus aurantifolia</i>
LAI SHI NA TE SHI DA GONG LAO	莱施纳特十大功劳	Leschenault Mahonia	T4069 <i>Mahonia leschenaultii</i>
LAN BO TE XIAO BO	兰伯特小檗	Lambert Barberry	T0908 <i>Berberis lambertii</i>
LAN E XIANG CHA CAI	兰萼香茶菜	Bluesepal Rabdosia*	T3497 <i>Isodon japonica</i> var. <i>glaucocalyx</i>
LAN HU LU BA	兰葫芦巴	Blue Trigonella	T6527 <i>Trigonella caerulea</i>
LAN HUANG HONG GU	兰黄红菇	Blue-yellow Redmushroom*	T5619 <i>Russula cyanoxantha</i>
LAN JI	蓝蓟	Blue Thistle	T2320 <i>Echium vulgare</i>
LAN JI CHUAN XIN LIAN	蓝蓟穿心莲	Echiumlike Andrographis	T0453 <i>Andrographis echiioides</i>
LAN SE YA CHI JUN	蓝色亚齿菌*	Inedible Mushroom	T3299 <i>Hydnellum caeruleum</i>
LAN SHAI PIAO	蓝筛朴	Siebold Elder	T5705 <i>Sambucus sieboldiana</i>
LAN SHUI LIAN	兰睡莲	Blue Waterlily	T4454 <i>Nymphaea caerulea</i>
LAN YU BAI JI	兰屿白芨	Taiwan Bletilla*	T0954 <i>Bletilla formosana</i>
LAN YU LUO YE RONG	兰屿落叶榕		T2725 <i>Ficus ruficaulis</i> var. <i>antaoensis</i>
LANG DANG GEN	莨菪根	Black Henbane Root	T3327 <i>Hyoscyamus niger</i>
LANG DANG YE	莨菪叶	Black Henbane Leaf	T3328 <i>Hyoscyamus niger</i>
LANG DANG ZI	莨菪子	Black Henbane Seed	T3329 <i>Hyoscyamus niger</i>
LANG DU	狼毒	Chinese Stelleria	T6105 <i>Stelleria chamaejasme</i>
LANG DU DA JI	狼毒大戟	Fischer Euphorbia	T2587 <i>Euphorbia fischeriana</i>
LANG DU WU TOU	狼毒乌头	Badgersbane	T0114 <i>Aconitum lycocotnum</i>
LANG PA CAO	狼把草	Bur Beggarticks	T0941 <i>Bidens tripartita</i>
LANG YU PI	榔榆皮	Chinese Elm Bark	T6596 <i>Ulmus parvifolia</i>
LAO GUAN CAO	老鹳草	Wilford Cranesbill	T2949 <i>Geranium wilfordii</i>
LAO NIU JIN	老牛筋	Junc-like Sandwort	T0607 <i>Arenaria juncea</i>
LAO PO ZI ZHEN XIAN	老婆子针线	Lopseed	T4830 <i>Phryma leptostachya</i>
LAO SHI WEN SHU LAN	劳氏文殊兰*	Laurent Crinum*	T1800 <i>Crinum laurentii</i>
LAO SHU GUA	老鼠瓜	Common Caper	T1180 <i>Capparis spinosa</i>
LAO SHU LE	老鼠筋	Hollyleaf Acanthus	T0048 <i>Acanthus ilicifolius</i>
LAO YA SHI	老鸦柿	Diamondleaf Persimmon	T2226 <i>Diospyros rhombifolia</i>
LE SHI JIN HE HUAN	勒氏金合欢*	Luederitz Acacia*	T0023 <i>Acacia luederitzii</i>
LEI A WEI	短裂片类阿魏*		T2711 <i>Ferulago brachyloba</i>
LEI BO WU TOU	雷波乌头	Leabo Monkshood	T0124 <i>Aconitum pseudohuiliense</i>
LEI DENG XIN LIU SHAN HU	蕾灯心柳珊瑚	Gorgonian <i>Junceella gemmacea</i>	T3575 <i>Junceella gemmacea</i>
LEI GONG QI	雷公七	Common Broadlily	T1574 <i>Clintonia alpina</i>
LEI GONG TENG	雷公藤	Common Threewingnut	T6542 <i>Tripterygium wilfordii</i>
LEI GUO SHA JI	肋果沙棘	Veinfruit Seabuckthorn	T3253 <i>Hippophae neurocarpa</i>
LEI SHI QIAN LI GUANG	雷氏千里光*	Renard Groundsel*	T5901 <i>Senecio renardii</i>
LEI YE SHENG MA	类叶升麻	Asica Baneberry	T1418 <i>Cimicifuga asiatica</i>
LENG FAN TUAN[yn]	冷饭团	Blacktiger Kadsura	T3613 <i>Kadsura coccinea</i> [Syn. <i>Kadsura chenensis</i> ; <i>Kadsura hainanensis</i>]
LENG JIAO QIAN LI GUANG	棱角千里光	Angulate Groundsel*	T5880 <i>Senecio angulatus</i>
LENG SHA BEI MU	棱砂贝母	Delavay Fritillary	T2784 <i>Fritillaria delavayi</i>
LENG ZHI HU JI SHENG	棱核榭寄生	Angulate Mistletoe*	T6772 <i>Viscum angulatum</i>
LENG ZHUANG BAI JIAN MU	棱状白坚木*	Rhombic-sign White Quebracho*	T0774 <i>Aspidosperma rhombeosignatum</i>
LI	藜	Lambsquarters Juvenile	T1359 <i>Chenopodium album</i>
LI BA NEN XIE HAO	黎巴嫩邪蒿*	Moon-carrot	T5933 <i>Seseli libanotis</i>
LI BIAN ZHI YI	栎扁枝衣		T2637 <i>Evernia prunastri</i>
LI BING FENG WEI JUE	栗柄凤尾蕨	Lead-coloured Brake	T5297 <i>Pteris plumbea</i>
LI BING JIN FEN JUE	栗柄金粉蕨	Lucidum Onychium	T4503 <i>Onychium lucidum</i>

LI CAI	蜥菜	Conglobate Ulva Frond*	T6598 <i>Ulva conglobata</i>
LI CHUN HUA	丽春花	Corn Poppy	T4625 <i>Papaver commutatum</i> [Syn. <i>Papaver rhoeas</i>]
LI DE LI FAN LONG YAN	里德利番龙眼*	Ridley Pometia*	T5136 <i>Pometia ridleyi</i>
LI DOU	黎豆	Capitateflower Velvetbean	T6147 <i>Stizolobium capitatum</i>
LI FEI MU JIANG ZI	里菲木姜子	Leeffe Litse*	T3892 <i>Litsea leefeana</i>
LI GUO XIAN REN ZHANG	梨果仙人掌	Prickly Pear	T4520 <i>Opuntia ficus-indica</i>
LI HE REN	李核仁	Japanese Plum Kernel	T5238 <i>Prunus salicina</i>
LI HUA JU	立花橘	Japanese Tachibana	T1513 <i>Citrus tachibana</i>
LI JI SAN CHU MAI MA QIAN	离基三出脉马钱*	Triplinervia Poisonnut*	T6190 <i>Strychnos triplinervia</i>
LI JIANG CHAI HU	丽江柴胡	Rock Thorowax	T1070 <i>Bupleurum rockii</i>
LI JIANG HUANG QIN	丽江黄芩	Likiang Skullcap	T5841 <i>Scutellaria likiangensis</i>
LI JIANG MA HUANG	丽江麻黄	Likiang Ephedra	T2372 <i>Ephedra likiangensis</i>
LI JIANG QIAN HU	漓江前胡	Likiang Hogfennel	T4756 <i>Peucedanum govanianum</i> var. <i>bicolor</i>
LI JIANG WU TOU	丽江乌头	Likiang Monkshood*	T0096 <i>Aconitum forrestii</i> [Syn. <i>Aconitum likiangense</i>]
LI JUE	栗蕨	Incised Histiopteris	T3260 <i>Histiopteris incisa</i>
LI LA GEN	黎辣根	Oriental Buckthorn	T5455 <i>Rhamnus crenata</i>
LI LU	藜芦	Black Falsehellebore	T6698 <i>Veratrum nigrum</i>
LI MENG	黎檬	Lemonlike Citrus	T1494 <i>Citrus limonia</i>
LI MENG GEN	黎檬根	Lemonlike Citrus Root	T1495 <i>Citrus limonia</i>
LI MENG PI	黎檬皮	Lemonlike Citrus Pericarp	T1496 <i>Citrus limonia</i>
LI MENG YE	黎檬叶	Lemonlike Citrus Leaf	T1497 <i>Citrus limonia</i>
LI MI ZI LAN	梨米仔兰*	Pear Aglaia*	T0242 <i>Aglaia pirifera</i>
LI MU	悞木	Tibet Lyonia	T3991 <i>Lyonia ovalifolia</i>
LI PU PO JU	利普珀菊*	Lipp Amberboa*	T0392 <i>Amberboa lippii</i>
LI QI HUAI	利奇槐	Leachiana Sophora	T6038 <i>Sophora leachiana</i>
LI SE SHU WEI CAO	栗色鼠尾草	Chestnut Sage	T5667 <i>Salvia castanea</i>
LI SHU PI	栗树皮	Chinese Chestnut Bast	T1256 <i>Castanea mollissima</i>
LI SHUO ZHU XIAN	梨蒴珠藓		T0874 <i>Bartramia pomiformis</i>
LI XIAN XIANG CHA CAI	理县香茶菜	Lihsien Rabdosia	T3505 <i>Isodon lihsienensis</i>
LI XING MA BO	梨形马勃	Pear-like Puff-ball	T3961 <i>Lycoperdon pyriforme</i>
LI YE	梨叶	Bretschneider Pear Leaf	T5362 <i>Pyrus bretschneideri</i>
LI YU	鲤鱼	Carp	T1980 <i>Cyprinus carpio</i>
LI YU DAN	鲤鱼胆	Carp Gall	T1981 <i>Cyprinus carpio</i>
LI YU PI	鲤鱼皮	Carp Skin	T1982 <i>Cyprinus carpio</i>
LI ZHI	荔枝	Lychee	T3876 <i>Litchi chinensis</i>
LI ZHI CAO	荔枝草	Common Sage	T5685 <i>Salvia plebeia</i>
LI ZHI HAO	痢止蒿	Forrest Bugle	T0264 <i>Ajuga forrestii</i>
LI ZHI HE	荔枝核	Lychee Seed	T3877 <i>Litchi chinensis</i>
LI ZI	李子	Japanese Plum	T5239 <i>Prunus salicina</i>
LIAN HUA	楝花	Chinaberry-tree Flower	T4159 <i>Melia azedarach</i>
LIAN HUA JIN QUE ER	链花金雀儿*	Goldregen	T1988 <i>Cytisus laburnum</i>
LIAN JIANG	廉姜	Chinese Galangal	T0354 <i>Alpinia chinensis</i>
LIAN PENG CAO	莲蓬草	Japanese Farfugium	T2691 <i>Farfugium japonicum</i>
LIAN QIAN CAO	连钱草		T2974 <i>Glechoma lungituba</i>
LIAN QIAO	连翘	Weeping Forsythia	T2756 <i>Forsythia suspensa</i>
LIAN SHENG GUI ZI HUA	莲生桂子花	Bloodflower Milkweed	T0736 <i>Asclepias curassavica</i>
LIAN XIANG SHU	连香树	Katsura-tree	T1333 <i>Cercidiphyllum japonicum</i> var. <i>sinense</i>
LIAN XING HUANG QI	镰形黄芪*	Falcate Milkvetch*	T0795 <i>Astragalus falcatus</i>
LIAN YE TONG	莲叶桐	Lotusleafung	T3231 <i>Hernandia sonora</i> [Syn. <i>Hernandia ovigera</i>]
LIAN YE TUO WU	莲叶橐吾	Waterlilyleaf Goldenray	T3810 <i>Ligularia nelumbifolia</i>

LIAN YE WU ZHU YU	棟叶吴茱萸	Dyebark Evodia	T2643 <i>Evodia meliifolia</i>
LIAN ZHU TENG	链珠藤	China Alyxia	T0383 <i>Alyxia sinensis</i>
LIAN ZI	莲子	Hindu Lotus Seed	T4400 <i>Nelumbo nucifera</i>
LIAN ZI XIN	莲子心	Hindu Lotus Plumule	T4401 <i>Nelumbo nucifera</i>
LIAN ZUO GE JUN	莲座革菌	Vase Thelephore	T6422 <i>Thelephora vialis</i>
LIANG BAI MEI RONG JUN	亮白煤绒菌*	White Fuliga*	T2806 <i>Fuligo candida</i>
LIANG HUA GE NI DI MU	亮花格尼迪木		T3037 <i>Gnidia lamprantha</i>
LIANG JUN	亮菌	Armillariella Tabescens	T0646 <i>Armillariella tabescens</i>
LIANG MIAN QING	两面青	Indian Maesa	T4028 <i>Maesa indica</i>
LIANG NIAN SHI SONG	两年石松	Sharpleaf Clubmoss*	T3966 <i>Lycopodium annotinum</i> var. <i>acrifolium</i>
LIANG QI LIAO	两栖蓼	Amphibious Knotweed	T5097 <i>Polygonum amphibium</i>
LIANG SHAN DU JUAN	凉山杜鹃		T5510 <i>Rhododendron huianum</i>
LIANG SHAN XIANG CHA CAI	凉山香茶菜	Liangshan Rabdosia	T3504 <i>Isodon liangshanica</i>
LIANG SI FEI YAN CAO	两似飞燕草*	Ambiguous Consolida*	T1646 <i>Consolida ambigua</i>
LIANG YE HUA PI	亮叶桦皮	Shingleleaf Birch Bark	T0932 <i>Betula luminifera</i>
LIANG YE RONG	亮叶榕	Bright Fig*	T2722 <i>Ficus nitida</i>
LIANG YE YAN DOU TENG	亮叶岩豆藤	Shingleleaf Millettia	T4238 <i>Millettia nitida</i>
LIAO DONG CONG MU	辽东槲木	Liaodong Aralia	T0572 <i>Aralia elata</i>
LIAO DONG CONG MU YE	辽东槲木叶	Liaodong Aralia Leaf*	T0573 <i>Aralia elata</i>
LIAO GAO BEN	辽藁本	Jehol Ligusticum	T3822 <i>Ligusticum jeholense</i>
LIAO GE WANG GEN	了哥王根	Indian Stringbush Root	T6820 <i>Wikstroemia indica</i>
LIAO LAN GUO	蓼蓝果	Indigoplant Fruit	T5120 <i>Polygonum tinctorium</i>
LIAO LAN YE	蓼蓝叶	Indigoplant Leaf	T5121 <i>Polygonum tinctorium</i>
LIAO NING SHAN ZHA	辽宁山楂	Redhaw Hawthorn	T1780 <i>Crataegus sanguinea</i>
LIAO SHANG RONG MAO HUA	疗伤绒毛花	Kidney Vetch	T0531 <i>Anthyllis vulneraria</i>
LIAO SHI	蓼实	Red-knees Fruit	T5103 <i>Polygonum hydropiper</i>
LIAO XI XIN	辽细辛	Manchurian Wildginger	T0728 <i>Asarum heterotropoides</i> var. <i>mandshuricum</i>
LIE DANG	列当	Skyblue Broomrape	T4536 <i>Orobanche coerulescens</i>
LIE E TAI	裂萼苔	Polybract Split-calyx Liverwort*	T1365 <i>Chiloscyphus polyanthus</i>
LIE GUO SHU	裂果薯	Lobedfruit Tacca	T6276 <i>Tacca plantaginea</i> [Syn. <i>Schizocapsa plantaginea</i>]
LIE TI MU CENG KONG JUN	裂蹄木层孔菌		T4788 <i>Phellinus linteus</i>
LIE WEI LIE LAN	烈味裂榄	Bursera*	T1080 <i>Bursera graveolens</i>
LIE YE QIAN NIU	裂叶牵牛	Lobedleaf Morningglory*	T3449 <i>Ipomoea hederacea</i>
LIE YE YE YING SU	裂叶野罂粟	Splidleaf Poppy*	T4631 <i>Papaver nudicaule</i> var. <i>chinense</i>
LIN BAI ZHI	林白芷	Wild Angelica	T0497 <i>Angelica sylvestris</i>
LIN BEI ZI	林背子	Field Lacquertree	T6482 <i>Toxicodendron succedaneum</i> [Syn. <i>Rhus succedanea</i>]
LIN DI HAO	林地蒿*	Woodland Wormwood	T0700 <i>Artemisia sylvatica</i>
LIN DI SHUI SU	林地水苏	Whitespot Betony	T6093 <i>Stachys sylvatica</i>
LIN DI WU TOU	林地乌头	Woodland Monkshood	T0120 <i>Aconitum nemorum</i>
LIN DI XIANG RI KUI	林地向日葵*	Woodland Sunflower	T3154 <i>Helianthus strumosus</i>
LIN JING ZHONG ZI WEN SHU LAN	鳞茎种子文殊兰*	Bulb-spermo Crinum*	T1797 <i>Crinum bulbispermum</i>
LIN PIAN XUAN SHEN	鳞片玄参*	Scale Figwort*	T5827 <i>Scrophularia lepidota</i>
LIN QIN	林檎	Chinese Pearleaf Crabapple	T4086 <i>Malus asiatica</i>
LIN SHENG SHAN LI DOU	林生山黧豆	Wild Pea	T3713 <i>Lathyrus sylvestris</i>
LIN SHENG XUAN SHEN	林生玄参	Common Figwort	T5829 <i>Scrophularia nodosa</i>
LIN SHI CAN	林石蚕	Wood Sage	T6369 <i>Teucrium scorodonia</i>
LIN WEN JING	林问荆	Forest Horsetail	T2412 <i>Equisetum sylvaticum</i>
LING	菱	Singharanut	T6492 <i>Trapa bispinosa</i>
LING LAN	铃兰	Lily of Valley	T1649 <i>Convallaria keiskei</i> [Syn. <i>Convallaria</i>

LING MAO XIANG	灵猫香	Civet	<i>majalis</i> T6800 <i>Viverra zibetha</i>
LING MU	铃木	Japanese Eurya	T2631 <i>Eurya japonica</i>
LING NAN DU JUAN	岭南杜鹃	Lingnan Rhododendron*	T5513 <i>Rhododendron mariae</i>
LING NAN HUAI SHU	岭南槐树	Tomentose Sophora	T6045 <i>Sophora tomentosa</i>
LING SHUI AN LUO	陵水暗罗	Nemoriculous Greenstar*	T5067 <i>Polyalthia nemoralis</i>
LING XIANG CAO	灵香草	Strongfragrant Loosestrife	T4002 <i>Lysimachia foenum-graecum</i>
LING XING CHANG CHUN TENG	菱形常春藤	Japanese Ivy	T3115 <i>Hedera rhombea</i>
LING YE ZI JU	菱叶紫菊	Rhombicleaf Purpledaisy	T4447 <i>Notoseris rhombiformis</i>
LING ZHI	灵芝(赤芝)	Lucid Ganoderma	T2848 <i>Ganoderma lucidum</i>
LIU BAI PI	柳白皮	Babylon Weeping Willow Root-bast	T5650 <i>Salix babylonica</i>
LIU CHUAN YU	柳穿鱼	Yellow Toadflax	T3845 <i>Linaria vulgaris</i>
LIU GUO ZI YU PAN	瘤果紫玉盘	Kweichou Uvaria	T6664 <i>Uvaria kweichowensis</i>
LIU HUANG TIE XIAN JUE	硫磺铁线蕨*	Sulphur Maidenhair Fern*	T0178 <i>Adiantum sulphureum</i>
LIU JI NU	刘寄奴	Diverse Worm-wood	T0661 <i>Artemisia anomala</i>
LIU JIAO LIAN	六角莲	Sixangular Dysosma	T2302 <i>Dysosma pleiantha</i> [Syn. <i>Podophyllum pleianthum</i>]
LIU LAN XIANG	留兰香	Spearmint	T4190 <i>Mentha spicata</i>
LIU LENG JU	六棱菊	Winged Laggera	T3674 <i>Laggera alata</i>
LIU LI CAO	琉璃草	Ceylon Houndstongue	T1971 <i>Cynoglossum zeylanicum</i> [Syn. <i>Anchusa zeylanica</i> ; <i>Cynoglossum furcatum</i> ; <i>Cynoglossum formosanum</i>]
LIU LI FAN LV	琉璃繁缕	Scarlet Pimpernel	T0440 <i>Anagallis arvensis</i>
LIU LI JU	琉璃苣	Common Borage	T0981 <i>Borago officinalis</i>
LIU QIU SHE GEN CAO	硫球蛇根草	Liukiu Ophiorrhiza*	T4512 <i>Ophiorrhiza liukiuensis</i>
LIU SHAN	柳杉	Chinese Cedar	T1867 <i>Cryptomeria fortunei</i>
LIU SHAN HU	柳珊瑚 <i>Gorgoniae suberogorgia</i>	Gorgonian <i>Gorgoniae suberogorgia</i>	T3053 <i>Gorgoniae suberogorgia</i>
LIU SU JIN SHI HU	流苏金石斛	Fimbriate Dendrobium*	T2101 <i>Dendrobium fimbriatum</i>
LIU SU LI LU	流苏藜芦	Fimbriate Falsehellebore*	T6696 <i>Veratrum fimbriatum</i>
LIU SU SHI HU	流苏石斛	Eyeshaped Dendrobium	T2102 <i>Dendrobium fimbriatum</i> var. <i>oculatum</i>
LIU TU HU JIAO	瘤突胡椒	Tuberculate Pepper*	T4972 <i>Piper tuberculatum</i>
LIU YE BAI QIAN	柳叶白前	Willowleaf Swallowwort	T1960 <i>Cynanchum stauntonii</i>
LIU YE CAI HUANG QIN	柳叶菜黄芩*	Willowweedleaf Skullcap	T5837 <i>Scutellaria epilobifolia</i>
LIU YE CEN	柳叶桤	Willowleaf Ash Bark	T2779 <i>Fraxinus stylosa</i>
LIU YE MU LAN	柳叶木兰	Willowleaf Magnolia*	T4049 <i>Magnolia salicifolia</i>
LIU ZHI	柳枝	Babylon Weeping Willow Branch	T5651 <i>Salix babylonica</i>
LIU ZHUANG DAN YE YUN XIANG	瘤状单叶芸香	Tuberculate Rue*	T5633 <i>Ruta tuberculata</i> [Syn. <i>Haplophyllum tuberculatum</i>]
LIU ZI SAI JIN LIAN MU	六籽赛金莲木*	Hexaseed Ouratea*	T4561 <i>Ouratea hexasperma</i>
LONG BAI	龙柏	Dragon Juniper	T3582 <i>Juniperus chinensis</i> var. <i>kaizuka</i>
LONG CHUAN HUA	龙船花	Chinese Ixora	T3549 <i>Ixora chinensis</i>
LONG DAN	龙胆	Rough Gentian	T2930 <i>Gentiana scabra</i>
LONG KUI	龙葵	Black Nightshade	T6008 <i>Solanum nigrum</i>
LONG NAO GAO XIANG	龙脑膏香	Borneol Oil-Resin	T2275 <i>Dryobalanops aromatica</i>
LONG SHENG XIANG CHA CAI	龙胜香茶菜	Longshen Rabdosia	T3510 <i>Isodon lungshengensis</i>
LONG SHU DU JUAN	陇蜀杜鹃	Przewalsk Rhododendron*	T5521 <i>Rhododendron przewalskii</i>
LONG TU ZHU	龙吐珠	Bleedingheart Glorybower	T1570 <i>Clerodendrum thomsonae</i>
LONG XIAN XIANG	龙涎香	Ambergris	T4855 <i>Physeter catodon</i>
LONG XU CAO	龙须草	Hard Bluegrass	T5033 <i>Poa sphondylodes</i>
LONG XU TENG	龙须藤	Champion Bauhinia	T0877 <i>Bauhinia championii</i>
LONG XUE SHU	龙血树	Dragon tree	T2254 <i>Dracaena draco</i>
LONG YA CAO	龙芽草	Hairyvein Agrimonia	T0248 <i>Agrimonia pilosa</i>

LONG YAN DU HUO	龙眼独活	Farges Aralia	T0574 <i>Aralia fargesii</i>
LONG YAN JING	龙眼睛	Reticulate Leafflower*	T4842 <i>Phyllanthus reticulatus</i>
LONG YAN YE	龙眼叶	Longan Leaf	T2627 <i>Euphoria longan</i> [Syn. <i>Dimocarpus longan</i>]
LOU DI QING MEI	娄地青霉		T4698 <i>Penicillium roqueforti</i>
LOU DOU PAO NANG CAO	漏斗泡囊草	Funneled Physochlaina	T4858 <i>Physochlaina infundibularis</i>
LOU LU	漏芦	Uniflower Swissscentaury	T5466 <i>Rhaponticum uniflorum</i>
LU BEI GUI HUA	绿背桂花		T2651 <i>Excoecaria cochinchinensis</i> var. <i>viridis</i>
LU BIAN QING	路边青	Manyflower Glorybower Leaf	T1154 <i>Clerodendron cyrtophyllum</i>
LU BIAN ZI CAO	路边紫草	Wild Gromwell*	T3883 <i>Lithospermum ruderale</i>
LU CAO	鹿草	Redflowered Swissscentaury*	T5465 <i>Rhaponticum carthamoides</i>
LU CONG	鹿葱	Autumn Lycoris	T3988 <i>Lycoris squamigera</i>
LU CUI QUE	露翠雀	Denuded Larkspur*	T2071 <i>Delphinium denudatum</i>
LU DE WEI HAO	陆得威蒿	Western Sage	T0682 <i>Artemisia ludoviciana</i>
LU DI MIAN	陆地棉	Upland Cotton	T3058 <i>Gossypium hirsutum</i> [Syn. <i>Gossypium mexicanum</i>]
LU DOU LE HUA	露兜筋花	Thatch Screwpine Flower	T4616 <i>Pandanus tectorius</i>
LU GEN	芦根	Common Reed Rhizome	T4829 <i>Phragmites communis</i>
LU HUI	芦荟(库拉索芦荟)	Kulaso Aloe Dried Juice	T0347 <i>Aloe vera</i> [Syn. <i>Aloe barbadensis</i>]
LU JIAO CAI	鹿角菜	Furcate Gloiopeltis Frond	T2994 <i>Gloiopeltis furcata</i>
LU JIAO QI SHU	鹿角漆树	Stag's-horn Sumach	T5540 <i>Rhus typhina</i>
LU LU TONG	路路通	Beautiful Sweetgum	T3867 <i>Liquidambar formosana</i> [Syn. <i>Liquidambar taiwaniana</i>]
LU RONG	鹿茸	Hairy Antler	T1137 <i>Cervus nippon</i> ; <i>Cervus elaphus</i>
LU RUI WU TOU	露蕊乌头	Nakedstamen Monkshood	T0099 <i>Aconitum gymnantrum</i>
LU SHAN SHI WEI	庐山石韦	Shearer's Pyrrosia Frond	T5360 <i>Pyrrosia sheareri</i>
LU SHAN XIANG CHA CAI	鲁山香茶菜	Lushan Rabdosia*	T3521 <i>Isodon rubescens</i> var. <i>lushanensis</i>
LU SHENG GE JUN	陆生革菌*	Terrestrial Thelephora*	T6421 <i>Thelephora terrestris</i>
LU SHI DONG LING CAO	卢氏冬凌草	Lushien Rabdosia*	T3522 <i>Isodon rubescens</i> var. <i>lushiensis</i>
LU SHUI CAO	露水草	Common Cyanotis	T1922 <i>Cyanotis vaga</i>
LU SUI GE MU	绿穗格木	Greenspik Erythrophleum*	T2483 <i>Erythrophleum chlorostachyum</i>
LU XIAN CAO	鹿衔草	Chinese Pyrola	T5345 <i>Pyrola calliantha</i> [Syn. <i>Pyrola rotundifolia</i> ssp. <i>chinensis</i>]
LU YI CI JU	路易刺橘	Louis Vepris*	T6690 <i>Vepris louisii</i>
LU YU SHU	绿玉树	Malabartree Euphorbia	T2624 <i>Euphorbia tirucalli</i>
LU ZHU GEN	芦竹根	Giantreed Rhizome	T0722 <i>Arundo donax</i>
LU ZHU XIANG CHA CAI	露珠香茶菜	Dew Rabdosia	T3495 <i>Isodon irrorata</i>
LUAN BAN ZAO ZHUI	卵瓣蚤缀	Ovatepetal Sandwort	T0609 <i>Arenaria kansuensis</i> var. <i>ovatipeatala</i>
LUAN DA SHAN ZHANG YA CAI	峦大山獐芽菜*	Randain Swertia*	T6237 <i>Swertia randainensis</i>
LUAN HUA	栾华	Paniculate Goldraintree Flower	T3635 <i>Koelreuteria paniculata</i>
LUAN SHU	栾树	Paniculate Goldraintree Root-bark	T3636 <i>Koelreuteria paniculata</i>
LUAN YE HU JI SHENG	卵叶槲寄生	White Mistletoe	T6771 <i>Viscum album</i>
LUAN YE HU JIAO	卵叶胡椒	Ovateleaf Pepper	T4933 <i>Piper attenuatum</i>
LUAN YE MEI DENG MU	卵叶美登木	Ovateleaf Mayten*	T4138 <i>Maytenus ovatus</i>
LUAN YE SAN ZHE MAI ZI WAN	卵叶三褶脉紫苑	Ovate-leaf Threevein Aster*	T0777 <i>Aster ageratooides</i> var. <i>ovatus</i>
LUAN YE TENG HUANG	卵叶藤黄*	Ovateleaf Garcinia*	T2869 <i>Garcinia ovalifolia</i>
LUAN YE TIAN JIE CAI	卵叶天芥菜	Ovateleaf Heliotrope*	T3177 <i>Heliotropium ovalifolium</i>
LUAN YE WA ER TENG	卵叶娃儿藤*	Ovateleaf Tylophora	T6582 <i>Tylophora ovata</i>
LUAN YE YIN LIAN HUA	卵叶银莲花	Ovateleaf Anemone	T0465 <i>Anemone begoniifolia</i>
LUAN YUAN CHANG CHUN HUA	卵圆长春花	Oval Periwinkle*	T1269 <i>Catharanthus ovalis</i>
LUE DA AO DING ZAO	略大凹顶藻	Smaller Concave-top Alga*	T3718 <i>Laurencia majuscula</i>
LUN HUAN TENG	轮环藤	Racemose Cyclea	T1932 <i>Cyclea racemosa</i>

LUN SHENG SHAN XIANG	轮生山香*	Verticillate Bushmint*	T3383 <i>Hyptis verticillata</i>
LUO BO HUA LING CAO	罗勃花菱草	Lobb Poppy*	T2496 <i>Eschscholzia lobbii</i>
LUO BU MA	罗布麻	Dogbane	T0553 <i>Apocynum venetum</i>
LUO DI DAN CAO	裸地胆草	Node Elephantfoot*	T2335 <i>Elephantopus nudatus</i>
LUO DI SHENG GEN	落地生根	Air-plant	T1043 <i>Bryophyllum pinnatum</i>
LUO E YE XIA ZHU	落萼叶下珠	Flexuose Leafflower*	T4838 <i>Phyllanthus flexuosus</i>
LUO FU MU	萝芙木	Common Devilpepper	T5423 <i>Rauvolfia verticillata</i>
LUO FU MU JING YE	萝芙木茎叶	Common Devilpepper Stem and Leaf	T5424 <i>Rauvolfia verticillata</i>
LUO GUO DI	罗锅底	Lovely Hemsleya	T3203 <i>Hemsleya amabilis</i>
LUO HAN BAI	罗汉柏	Broadleaf Arborvitae Hiba	T6443 <i>Thuopsis dolobrata</i>
LUO HAN GUO	罗汉果	Grosvenor Siraitia	T5967 <i>Siraitia grosvenorii</i> [Syn. <i>Momordica grosvenorii</i>]
LUO HAN SONG SHI	罗汉松实	Longleaf Podocarpus Seed	T5042 <i>Podocarpus macrophyllus</i>
LUO HAN SONG YE	罗汉松叶	Longleaf Podocarpus Leaf	T5043 <i>Podocarpus macrophyllus</i>
LUO HUA NAN MEI ROU DOU KOU	落花南美洲肉豆蔻*		T6768 <i>Virola caducifolia</i>
LUO HUA SHENG	落花生	Peanut	T0559 <i>Arachis hypogaea</i>
LUO HUA SHENG YOU	落花生油	Peanut Oil	T0560 <i>Arachis hypogaea</i>
LUO HUA SHENG ZHI YE	落花生枝叶	Peanut Branch-leaf	T0561 <i>Arachis hypogaea</i>
LUO JI SHAN YUAN BAI	落矶山圆柏	Western Red Cedar	T3597 <i>Juniperus scopulorum</i>
LUO JING ER CAO	裸茎耳草	Nude-stem Eargrass*	T3127 <i>Hedyotis nudicaulis</i>
LUO KE SI BAO MI ZI LAN	罗克斯堡米仔兰	Roxburg Aglaia*	T0244 <i>Aglaia roxburghiana</i>
LUO KUI HUA	落葵花	Red Vinespinach flower	T0875 <i>Basella rubra</i>
LUO KUI SHU	落葵薯		T0515 <i>Anredera cordifolia</i> [Syn. <i>Baussingaultia cordifolia</i> ; <i>Baussingaultia gracilis</i> f. <i>pseudobaselloides</i> ; <i>Baussingaultia gracilis</i> var. <i>pseudobaselloides</i>]
LUO LE	罗勒	Basil	T4470 <i>Ocimum basilicum</i>
LUO LE ZI	罗勒子	Basil Fruit	T4471 <i>Ocimum basilicum</i>
LUO MO	萝摩	Japanese Metaplexis	T4206 <i>Metaplexis japonica</i>
LUO MO ZI	萝摩子	Japanese Metaplexis Seed	T4207 <i>Metaplexis japonica</i>
LUO SAN SHU	罗伞树	Pentagonous Ardisia	T0602 <i>Ardisia quinquegona</i>
LUO SHI TENG	络石藤	Chinese Star Jasmine	T6484 <i>Trachelospermum jasminoides</i>
LUO SUI TUN CAO	裸穗豚草	Perennial Ragweed	T0405 <i>Ambrosia psilostachya</i>
LUO TUO CI	骆驼刺	Manaplant Alhagi Sweet Secretion	T0302 <i>Alhagi pseudalhagi</i>
LUO TUO HAO	骆驼蒿	Little Peganum	T4689 <i>Peganum nigellastrum</i>
LUO TUO PENG	骆驼蓬	Common Peganum	T4687 <i>Peganum harmala</i>
LUO TUO PENG ZI	骆驼蓬子	Common Peganum Seed	T4688 <i>Peganum harmala</i>
LUO XI YANG ER SUAN	洛西羊耳蒜	Fen Orchid	T3862 <i>Liparis loeselii</i>
LUO XIAO E TAI	裸小萼苔		T4339 <i>Mylia nuda</i>
LUO XIN FU	落新妇	Chinese Astilbe	T0784 <i>Astilbe chinensis</i>
LUO XUAN JIN HE HUAN	螺旋金合欢*	Spiral Acacia*	T0031 <i>Acacia spirorbis</i>
LUO YAN CAO	螺厝草	Littleleaf Lemnaphyllum Herb	T3736 <i>Lemnaphyllum microphyllum</i>
LUO YE SONG	落叶松	Dahurian Larch	T3690 <i>Larix gmelini</i>
LUO YE SONG YE JIN SI TAO	落叶松叶金丝桃*	Larch-leaf St.John'swort*	T3358 <i>Hypericum laricifolium</i>
LUO YU SHAN	落羽杉	Deciduous Cypress	T6305 <i>Taxodium distichum</i>
LV BAI TIAN XIAN TENG	绿白天仙藤	Chloro-white Fibraurea*	T2714 <i>Fibraurea chloroleuca</i>
LV CAO	律草	Japanese Hop	T3288 <i>Humulus japonicus</i> [Syn. <i>Humulus scandens</i>]
LV DOU	驴豆	Common Sainfoin	T4491 <i>Onobrychis viciifolia</i>
LV GAN BAI	绿干柏	Arizona Cypress	T1895 <i>Cupressus arizonica</i>
LV HAI KUI	绿海葵	Green Anemone	T0526 <i>Anthopleura stell</i>
LV LI LU	绿藜芦	Green Falsehellebore	T6700 <i>Veratrum viride</i>

LV SE MU MEI	绿色木霉		T6503 <i>Trichoderma virida</i>
LV SONG GUO	吕宋果	Ignat Poisonnut Seed	T6177 <i>Strychnos ignatii</i>
LV SONG JIA MI	吕宋荚蒾	Luzon Viburnum*	T6737 <i>Viburnum luzonicum</i>
LV SONG QIU MAO	吕宋楸毛	Kamalatree	T4084 <i>Mallotus philippinensis</i>
LV SUN PIAN	绿笋片	Oldham Bamboo Shoot	T5961 <i>Sinocalamus oldhami</i>
LV TANG SONG CAO	绿唐松草	Glaucous Meadowrue*	T6390 <i>Thalictrum glaucum</i>
LV TI CAO YE TUO WU	驴蹄草叶橐吾	Marshmarigold-like Goldenray*	T3800 <i>Ligularia calthaefolia</i>
LV TI GEN CAO	绿嚏根草	Green Hellebore*	T3189 <i>Helleborus viridis</i>
LV XIAN REN ZHANG	绿仙人掌	Common Prickly Pear	T4521 <i>Opuntia vulgaris</i>
LV ZAO JI GEN YING MAO ZAO	绿藻基根硬毛藻		T1346 <i>Chaetomorpha basiretorsa</i>
LV ZI SHAN XIAO JU	绿籽山小橘*		T3005 <i>Glycosmis chlorosperma</i>
MA BI MU	马比木	Pittosporumlike Nothapodytes	T4439 <i>Nothapodytes pittosporoides</i>
MA BIAN CAO	马鞭草	European Verbena	T6709 <i>Verbena officinalis</i>
MA BING LANG	马槟榔	Masaikai Caper	T1179 <i>Capparis masaikai</i>
MA BO	马勃	Bark-less Puff-ball	T3701 <i>Lasiosphaera fenzi</i>
MA CAN DOU	马蚕豆	Horse Bean	T6748 <i>Vicia faba</i> var. <i>equina</i>
MA CHANG LI ZI JIN	马长里紫堇	Marschall Corydalis *	T1724 <i>Corydalis marschalliana</i>
MA CHI XIAN	马齿苋	Purslane	T5173 <i>Portulaca oleracea</i>
MA DAN GUO	马蛋果	Fragrant Gynocardia	T3082 <i>Gynocardia odorata</i>
MA DAO CHOU TAN	马岛臭檀	Madagascar Evodia*	T2642 <i>Evodia madagascariensis</i>
MA DAO HA NI MU	马岛哈尼木	Madagascar Hani-wood*	T3110 <i>Harungana madagascariensis</i>
MA DAO HUANG LIAN SHU	马岛黄楝树*	Fatraina (in Madagascar)	T5702 <i>Samadera madagascariensis</i>
MA DAO SI WO CI DOU	马岛斯沃茨豆	Madagascar Swartzia*	T6211 <i>Swartzia madagascariensis</i>
MA DE LI MIAN ZAO ER	马德里绵枣儿*	Madrid Squill*	T5810 <i>Scilla maderensis</i> [Syn. <i>Autonoë madeirensis</i>]
MA DOU LING	马兜铃	Slender Dutchmanspipe	T0626 <i>Aristolochia debilis</i> [Syn. <i>Aristolochia longa</i>]
MA DU LA ZHU SHI DOU	马都拉猪屎豆	Madura Crotalaria*	T1825 <i>Crotalaria madurensis</i>
MA ER SHAN WU TOU	马耳山乌头	Delavy Monkshood	T0090 <i>Aconitum delavayi</i>
MA FENG MU	马疯木	Manchineel	T3252 <i>Hippomane mancinella</i>
MA FENG SHU	麻风树	Leprous Tree	T3560 <i>Jatropha curcas</i>
MA GEN	麻根	Hemp Fimble Root	T1174 <i>Cannabis sativa</i>
MA GUI HUA	马桂花	Manynerve Embelia	T2346 <i>Embelia oblongifolia</i>
MA HUA	麻花	Hemp Fimble Flower*	T1175 <i>Cannabis sativa</i>
MA HUA JIAO	麻花苳	Straw-coloured Gentian	T2934 <i>Gentiana straminea</i>
MA HUANG	麻黄(草麻黄)	Chinese Ephedra	T2380 <i>Ephedra sinica</i>
MA HUANG GEN	麻黄根	Chinese Ephedra Root	T2381 <i>Ephedra sinica</i>
MA LA BA CHU	马拉巴栲	Hairyleaf South Ailanthus	T0258 <i>Ailanthus malabarica</i>
MA LA BA JIAN MU	马拉巴榿木*	Malaba Pencilwood*	T2312 <i>Dysoxylum malabaricum</i>
MA LA BA YANG TI JIA	马拉巴羊蹄甲*	Malaba Bauhinia*	T0878 <i>Bauhinia malabarica</i>
MA LAI BAN DAO RAN MU SHU	马来半岛染木树*	Malaya Dieingtree*	T5729 <i>Saprosma scortechinii</i>
MA LAI XI YA HUANG YANG	马来西亚黄杨*	Malaysian Box*	T1090 <i>Buxus malaiana</i>
MA LAI XI YA MAI MA TENG	马来西亚买麻藤	Spinach-like Jointfir	T3029 <i>Gnetum gnetonoides</i>
MA LAI XI YA RUI MU	马来西亚蕊木	Malaysia Kopsia*	T3641 <i>Kopsia griffithii</i>
MA LAN GEN	马蓝根	Common Baphicacanthus Root	T0866 <i>Baphicacanthus cusia</i> [Syn. <i>Strobilanthes cusia</i>]
MA LAN YE	马蓝叶	Common Baphicacanthus Leaf	T0867 <i>Baphicacanthus cusia</i> [Syn. <i>Strobilanthes cusia</i>]
MA LIAN	麻楝	Chittagong Chickrassy	T1410 <i>Chukrasia tabularis</i>
MA LIN	马蔺	Chinese Iris	T3465 <i>Iris pallasii</i> var. <i>chinensis</i>
MA LIN ZI	马蔺子	Chinese Iris	T3464 <i>Iris lactea</i> var. <i>chinensis</i> [Syn. <i>Iris pallasii</i> var. <i>chinensis</i>]

MA LING SHU	马铃薯	Potato	T6017 <i>Solanum tuberosum</i>
MA LIU JIA YU TENG	马六甲鱼藤	Malacca Jewelvine*	T2120 <i>Derris malaccensis</i>
MA LIU YE	麻柳叶	Chinese Wingnut	T5308 <i>Pterocarya stenoptera</i>
MA NIAO PAO	马尿泡	Tangut Przewalskia	T5247 <i>Przewalskia tangutica</i>
MA NIU XI	麻牛膝	Capitate Cyathula	T1923 <i>Cyathula capitata</i>
MA QIAN ZI	马钱子	Nut-vomitive Poissonut	T6184 <i>Strychnos nux-vomica</i>
MA SANG	马桑	Chinese Coriaria	T1692 <i>Coriaria sinica</i> [Syn. <i>Coriaria nepalensis</i>]
MA SANG YE	马桑叶	Chinese Coriaria Leaf	T1693 <i>Coriaria sinica</i> [Syn. <i>Coriaria nepalensis</i>]
MA SHAN QIAN HU	马山前胡	Mashan Hogfennel	T4762 <i>Peucedanum mashanens</i>
MA SHI DA HUANG	马氏大黄*	Maximowicz Rhubarb*	T5470 <i>Rheum maximowiczii</i>
MA SHI JIN YAO	马氏金腰*	Maximowicz Goldsaxifrage*	T1405 <i>Chrysosplenium maximowiczii</i>
MA SHI LU HUI	马氏芦荟	Marloth Aloe	T0341 <i>Aloe marlothii</i>
MA SHI XIANG KE KE	马氏香科科	Cat Thyme	T6362 <i>Teucrium marum</i>
MA SHI XIANG RI KUI	马氏向日葵*	Maximilian's Sunflower	T3149 <i>Helianthus maximiliani</i>
MA SI TE SI DU YING	马斯特斯杜英	Masters Elaeocarpus	T2329 <i>Elaeocarpus mastersii</i>
MA TI WEN TIAN ZHU KUI	马蹄纹天竺葵	Zonal Geranium	T4694 <i>Pelargonium zonale</i>
MA TI YE	马蹄叶	Common Marsharigold	T1137 <i>Caltha palustris</i>
MA TONG HUA	马桶花	Sharptooth Incarvillea	T3418 <i>Incarvillea arguta</i>
MA WEI LIAN	马尾连	Manyleaf Meadowrue	T6387 <i>Thalictrum foliolosum</i>
MA WEI SHAN	马尾杉	Slender Phlegmariusus	T4801 <i>Phlegmariusus phlegmaria</i> [Syn. <i>Lycopodium phlegmaria</i>]
MA WEI SONG YE	马尾松叶	Masson Pine Leaf:	T4916 <i>Pinus massoniana</i>
MA YE	麻叶	Hemp Fimble Leaf	T1176 <i>Cannabis sativa</i>
MA YE QIAN LI GUANG	麻叶千里光	Hempleaf Groundsel	T5883 <i>Senecio cannabifolius</i>
MA YIN HUA	马银花	Ovateleaf Rhododendron*	T5520 <i>Rhododendron ovatum</i> [Syn. <i>Rhododendron lamprophyllum</i> ; <i>Azalea ovata</i>]
MA ZHUANG QIE	麻状茄*	Abutilon Nightshade*	T5988 <i>Solanum abutiloides</i>
MA ZHUANG SAI YA MA	马状赛亚麻	Hippomane Cupflower*	T4429 <i>Nierembergia hippomanica</i>
MAI DONG	麦冬	Liriope	T4507 <i>Ophiopogon japonicus</i>
MAI JIA GONG	麦家公	Corn Gromwell	T3880 <i>Lithospermum arvense</i>
MAI JIAO	麦角菌	Ergot	T1541 <i>Claviceps purpurea</i>
MAI KE LIN JIU	麦克林韭	MacLean Leek*	T0315 <i>Allium macleanii</i>
MAI XIAN WENG	麦仙翁	Githago Agrostemma	T0252 <i>Agrostemma githago</i>
MAI YA	麦芽	Barley Germinating Fruit	T3282 <i>Hordeum vulgare</i>
MAN CHANG CHUN HUA	蔓长春花	Common Periwinkle	T6761 <i>Vinca minor</i>
MAN GE YING ZHAO	曼戈鹰爪	Mainge Tailgrape*	T0654 <i>Artabotrys maingayi</i>
MAN HUO XIANG	蔓藿香		T6371 <i>Teucrium viscidum</i> var. <i>miquelianum</i>
MAN JIANG HONG	满江红	Imbricate Mosquito Fern	T0838 <i>Azolla imbricata</i> [Syn. <i>Salvinia imbricata</i>]
MAN JING YE	蔓荆叶	Threeleaf Chastetree Leaf	T6792 <i>Vitex trifolia</i>
MAN JING ZI	蔓荆子	Threeleaf Chastetree Fruit	T6793 <i>Vitex trifolia</i>
MAN JIU JIE	蔓九节	Creeping Ninenode	T5279 <i>Psychotria serpens</i>
MAN LI YU	鳃鲰鱼	Japanese Eel	T0500 <i>Anguilla japonica</i>
MAN NI DUO TAN CAO	曼尼多坦草*		T2250 <i>Dorstenia mannii</i>
MAN NI PU ER SHI DA GONG LAO	曼尼普尔十大功劳	Manipur Mahonia	T4070 <i>Mahonia manipurensis</i>
MAN SHAN HONG	满山红(兴安杜鹃)	Dahurian Rhododendron	T5508 <i>Rhododendron dauricum</i>
MAN SHENG JUAN BAI	蔓生卷柏	David's Spikemoss	T5860 <i>Selaginella davidii</i>
MAN SUO NI YA XIN CAI	曼索尼亚心材	Mansonia Heartwood	T4107 <i>Mansonia gagei</i>
MAN TENG HUANG	曼藤黄*	Mann Garcinia*	T2864 <i>Garcinia mannii</i>
MAN TUO LUO GEN	曼陀罗根	Hindu Datura Root	T2041 <i>Datura metel</i>
MAN TUO LUO YE	曼陀罗叶	Hindu Datura Leaf	T2042 <i>Datura metel</i>
MAN TUO LUO ZI	曼陀罗子	Hindu Datura Seed	T2043 <i>Datura metel</i>

MAN XING QIAN JIN BA	蔓性千斤拔	Philippine Flemingia	T2737 <i>Flemingia philippinensis</i> [Syn. <i>Moghania philippinensis</i>]
MAN ZHI LONG DAN	蔓枝龙胆	Spread Gentian	T2917 <i>Gentiana leptoclada</i>
MANG GUO	杧果	Mango	T4099 <i>Mangifera indica</i>
MANG GUO HE	杧果核	Mango Seed	T4100 <i>Mangifera indica</i>
MANG GUO SHU PI	杧果树皮	Mango Bark	T4101 <i>Mangifera indica</i>
MANG GUO YE	杧果叶	Mango Leaf	T4102 <i>Mangifera indica</i>
MANG JING	芒茎	Chinese Silvergrass	T4254 <i>Miscanthus sinensis</i>
MANG NIU ER MIAO	牻牛儿苗	Common Heron's Bill	T2438 <i>Erodium stephanianum</i>
MANG QI GU	芒萁骨	Dichotoma Forked Fern	T2161 <i>Dicranopteris pedata</i> [Syn. <i>Polypodium pedatum</i> ; <i>Dicranopteris dichotoma</i>]
MANG SHE	蟒蛇	Indian Python	T5368 <i>Python molurus bivittatus</i>
MAO BA JIAO FENG	毛八角枫	Kurz Alangium	T0282 <i>Alangium kurzii</i>
MAO BAI YANG	毛白杨	Chinese White Poplar	T5161 <i>Populus tomentosa</i>
MAO CAO LONG	毛草龙	Water Seedbox*	T3932 <i>Ludwigia octovalvis</i>
MAO CAO YE	茅草叶	Lalang Grass Leaf	T3417 <i>Imperata cylindrica</i> var. <i>major</i>
MAO CHUN BEI MU LAN	毛唇贝母兰	Cristate Coelogyne	T1605 <i>Coelogyne cristata</i>
MAO CI JIN JI ER	毛刺锦鸡儿	Tibet Peashrub	T1193 <i>Caragana tibetica</i>
MAO DA DING CAO	毛大丁草	Pilose Gerbera	T2952 <i>Gerbera piloselloides</i>
MAO DAO DI LING	毛倒地铃	Hairy Heartseed*	T1198 <i>Cardiospermum hirsutum</i>
MAO DI HUANG	毛地黄(紫花洋地黄)	Common Foxglove	T2177 <i>Digitalis purpurea</i>
MAO DI HUANG SHU WEI CAO	毛地黄鼠尾草	Foxglove-like Sage	T5671 <i>Salvia digitaloides</i>
MAO DI QIAN	毛地钱		T2293 <i>Dumortiera hirsuta</i>
MAO DONG QING	毛冬青	Pubescent Holly	T3396 <i>Ilex pubescens</i>
MAO DOU	猫豆	Cochinchina Mucuna*	T4309 <i>Mucuna cochinchinensis</i>
MAO DU XING CAI	毛独行菜	Hoary Pepperwort	T3757 <i>Lepidium draba</i>
MAO E MEI	毛萼梅	Hairysepal Raspberry	T5590 <i>Rubus chroosepalus</i>
MAO E XIANG CHA CAI	毛萼香茶菜	Hairysepal Rabdosia	T5391 <i>Rabdosia eriocalyx</i>
MAO GAO CAI	茅膏菜	Lunate Peltate Sundew	T2267 <i>Drosera peltata</i> var. <i>lunata</i>
MAO GEN	毛茛	Japanese Buttercup	T5414 <i>Ranunculus japonicus</i>
MAO GENG HONG MAO WU JIA	毛梗红毛五加	Hispidus Girald Acanthopanax	T0037 <i>Acanthopanax giraldii</i> var. <i>hispidus</i>
MAO GENG XI XIAN	毛梗豨薟	Hairstalk St. Paulswort	T5951 <i>Siegesbeckia orientalis</i> var. <i>glabrescens</i> [Syn. <i>Siegesbeckia glabrescens</i>]
MAO GENG XIA YE XIANG CHA CAI	毛梗狭叶香茶菜	Hairstalk Narrowleaf Rabdosia*	T3481 <i>Isodon angustifolius</i> var. <i>glabrescens</i>
MAO GOU TENG	毛钩藤	Hirsute Gambirplant*	T6617 <i>Uncaria hirsuta</i>
MAO GUAN ZHONG	毛贯众	Champion Wood Fern	T2279 <i>Dryopteris championii</i>
MAO GUO DI JIN	毛果地锦	Groundfig Spurge	T2581 <i>Euphorbia chamaesyce</i>
MAO GUO DU JUAN	毛果杜鹃	Hairfruit Rhododendron*	T5522 <i>Rhododendron seniavinii</i>
MAO GUO HAN XIAO	毛果含笑	Hairyfruit Michelia	T4214 <i>Michelia spaerantha</i>
MAO GUO MA LI JIN	毛果马利筋*	Hairyfruit Milkweed*	T0737 <i>Asclepias eriocarpa</i>
MAO GUO QI	毛果槭	Nikoo Maple	T0050 <i>Acer nikoense</i>
MAO GUO SUAN PAN ZI	毛果算盘子	Hairypod Glochidion*	T2988 <i>Glochidion eriocarpum</i>
MAO GUO TIAN JIE CAI	毛果天芥菜	Hairyfruit Heliotrope*	T3175 <i>Heliotropium lasiocarpum</i>
MAO GUO XIANG CHA CAI	毛果香茶菜	Hairyfruit Rabdosia*	T3530 <i>Isodon trichocarpa</i>
MAO GUO YANG	毛果杨	Black Cottonwood	T5164 <i>Populus trichocarpa</i>
MAO GUO YI HE GUO	毛果翼核果	Hairyfruit Ventilago	T6688 <i>Ventilago calyculata</i>
MAO GUO YI ZHI HUANG HUA	毛果一枝黄花	European Goldenrod	T6023 <i>Solidago virgaurea</i>
MAO GUO YU TENG	毛果鱼藤	Hairyrod Fishvane	T2119 <i>Derris eriocarpa</i>
MAO GUO YUN XIANG	毛果芸香		T4891 <i>Pilocarpus jaborandi</i>
MAO HANG ZI SHAO	毛杭子梢	Hairy Clovershrub	T1163 <i>Campylotropis hirtella</i>
MAO HOU QIAO RUI HUA	毛喉鞘蕊花	Forskahl Coleus	T1620 <i>Coleus forskahlii</i>

MAO HUA MAO DI HUANG	毛花毛地黄	Grecian Foxglove	T2175 <i>Digitalis lanata</i>
MAO HUA MI HOU TAO	毛花猕猴桃	Hairyflower Actinidia	T0161 <i>Actinidia eriantha</i>
MAO HUA SHI NAN	毛花石楠	Hairyflower Photinia*	T4826 <i>Photinia lactiflora</i>
MAO JIAN QIU LUO	毛剪秋罗	Hairy Campion	T3948 <i>Lychnis coronaria</i>
MAO JIE XIE CAO	毛节蕨草	Hairnode Valeriana*	T6674 <i>Valeriana alternifolia</i> var. <i>stolonifera</i>
MAO JU	毛茛	Hairy Pepper	T4962 <i>Piper puberulum</i>
MAO LIAN HAO	毛莲蒿	Hairy Wormwood	T0705 <i>Artemisia vestita</i>
MAO LIE FENG DOU CAI	毛裂蜂斗菜*	Hairylobed Butterbur	T4745 <i>Petasites tricholobus</i>
MAO MA CHI XIAN	毛马齿苋	Pilose Purslane*	T5174 <i>Portulaca pilosa</i>
MAO MAI LIAO	毛脉蓼		T5018 <i>Pleuropterus ciliinervis</i>
MAO MAN TUO LUO GEN	毛曼陀罗根	Hairy Datura Root	T2036 <i>Datura innoxia</i>
MAO MAN TUO LUO HUA	毛曼陀罗花	Hairy Datura Flower	T2037 <i>Datura innoxia</i>
MAO MAN TUO LUO YE	毛曼陀罗叶	Hairy Datura Leaf	T2038 <i>Datura innoxia</i>
MAO MAN TUO LUO ZI	毛曼陀罗子	Hairy Datura Seed	T2039 <i>Datura innoxia</i>
MAO MEI	茅莓	Japanese Raspberry	T5595 <i>Rubus parviflorus</i>
MAO PAO TONG	毛泡桐	Royal Paulownia	T4679 <i>Paulownia tomentosa</i>
MAO REN GE JUN	毛韧革菌		T6143 <i>Stereum hirsutum</i>
MAO RUI HUA	毛蕊花	Flannel Mullein	T6705 <i>Verbascum thapsus</i>
MAO RUI HUA YE TU MU	毛蕊花叶土木香	Mulleinleaf Inula*	T3440 <i>Inula verbascifolia</i>
XIANG			
MAO SHAN ZHA	毛山楂	Maximowicz Hawthorn	T1772 <i>Crataegus maximowiczii</i>
MAO SHI JUN ZI	毛使君子	Villous Rangooncreeper*	T5386 <i>Quisqualis indica</i> var. <i>villosa</i>
MAO SHU	毛薯	Winged Yam	T2188 <i>Dioscorea alata</i>
MAO SHU MEI	毛束莓		T6515 <i>Trichurus terrophilus</i>
MAO SUI HU JIAO	毛穗胡椒	Hairspike Pepper*	T4971 <i>Piper trichostachyon</i>
MAO TOU RU GU	毛头乳菇	Pink-fringed Milky	T3656 <i>Lactarius torminosus</i>
MAO XIAN MAO	毛仙茅*	Pilose Curculigo*	T1902 <i>Curculigo pilosa</i>
MAO XIAN ZHU JU TAI	毛线柱苣苔	Hairy Rhynchotechum	T5543 <i>Rhynchotechum vestitum</i>
MAO XIANG HUA	茅香花	Vanillagrass	T3250 <i>Hierochloa odorata</i>
MAO XU CAO	猫须草	Spicate Clerodendranthus	T1553 <i>Clerodendranthus spicatus</i>
MAO YAN CAO	猫眼草	Crescent-shaped Euphorbia	T2599 <i>Euphorbia lunulata</i>
MAO YANG MEI	毛杨梅	Hairy Bayberry	T4343 <i>Myrica esculent</i>
MAO YE BA DOU	毛叶巴豆	Tomentose Caudate Croton	T1841 <i>Croton caudatus</i> var. <i>tomentosus</i>
MAO YE FAN LI ZHI	毛叶番荔枝	Cherimoya	T0505 <i>Annona cherimolia</i>
MAO YE JIA YING ZHAO GEN	毛叶假鹰爪根	Piloseleaf Desmos Root	T2137 <i>Desmos dumosus</i>
MAO YE LI LU	毛叶藜芦	Largeflower Falsehellebore	T6697 <i>Veratrum grandiflorum</i>
MAO YE WEI MAO	毛叶卫矛	Sacred Spindle-tree	T2546 <i>Euonymus sacrosancta</i>
MAO YE XIANG CHA CAI	毛叶香茶菜	Japanese Rabdosia	T3496 <i>Isodon japonica</i> [Syn. <i>Rabdosia japonica</i>]
MAO YU TENG	毛鱼藤	Tubaroot Jewelvine	T2118 <i>Derris elliptica</i>
MAO ZHANG YA CAI	毛獐牙菜	Pubescent Swertia	T6232 <i>Swertia pubescens</i>
MAO ZHI HUA	毛枝桦	Pubescent Birch*	T0934 <i>Betula pubescens</i>
MAO ZHI JUAN BAI	毛枝卷柏	Braun's Spikemoss	T5859 <i>Selaginella braunii</i>
MAO ZHU MA QIAN	毛竹马钱	Hairstyle Poisonnut	T6183 <i>Strychnos nitida</i>
MAO ZHU YE HUA JIAO	毛竹叶花椒	Armata-leaf Pricklyash*	T6864 <i>Zanthoxylum armatum</i>
MEI GUAN MA XIAN HAO	美观马先蒿	Smallealyx Woodbetony	T4681 <i>Pedicularis decora</i>
MEI GUI HONG JIN	玫瑰红堇	Rose Corydalis*	T1737 <i>Corydalis rosea</i>
MEI GUI HUA	玫瑰花	Rugose Rose Flower	T5572 <i>Rosa rugosa</i>
MEI GUO BIAN FU GE	美国蝙蝠葛	Canada Moonseed	T4181 <i>Menispermum canadense</i>
MEI GUO BO HE	美国薄荷	Oswegotea	T4269 <i>Monarda didyma</i>
MEI GUO CI JIAO	美国刺椒	Hercules' Club	T6871 <i>Zanthoxylum clava-hercules</i>
MEI GUO HAI MO JU	美国海墨菊	Burro Bush	T3322 <i>Hymenoclea salsola</i>
MEI GUO KE YA SHU	美国柯桤树*	American Vouacapoua*	T6804 <i>Vouacapoua americana</i>

MEI GUO QING TENG	美国青藤	Carolina Snailseed*	T1584 <i>Cocculus carolinus</i>
MEI GUO SHAN HE TAO	美国山核桃	Pecan	T1218 <i>Carya illinoensis</i>
MEI GUO XIA LA MEI	美国夏腊梅	Carolina Allspice	T1139 <i>Calycanthus floridus</i>
MEI GUO ZI	美国梓	Southern Catalpa	T1260 <i>Catalpa bignonioides</i>
MEI HE REN	梅核仁	Japanese Apricot Kernel	T5227 <i>Prunus mume</i>
MEI HUA FENG MAO JU	美花风毛菊	Beautiful-flowered Saussurea	T5767 <i>Saussurea pulchella</i>
MEI HUA SHI HU	美花石斛	Loddiges Dendrobium	T2105 <i>Dendrobium loddigesii</i>
MEI LI BU KU	美丽布枯*	Rutaceae Diosma	T1617 <i>Coleonema pulchellum</i>
MEI LI FAN HONG HUA	美丽番红花	Pretty Crocus	T1809 <i>Crocus speciosus</i>
MEI LI HAI YING SU	美丽海罂粟*	Beautiful Hornpoppy*	T2971 <i>Glaucium pulchrum</i>
MEI LI HE BAO MU DAN	美丽荷包牡丹	Bleedingheart	T2150 <i>Dicentra formosa</i>
MEI LI HONG DOU SHAN	美丽红豆杉	Maire Yew	T6312 <i>Taxus mairei</i>
MEI LI HUA QIU	美丽花楸	Showy Mountainsah	T6054 <i>Sorbus decora</i>
MEI LI JIN SI TAO	美丽金丝桃	Beautiful St.John'swort	T3342 <i>Hypericum bellum</i>
MEI LI MA LI JIN	美丽马利筋	Beautiful Milkweed*	T0739 <i>Asclepias speciosa</i>
MEI LI MA ZUI MU	美丽马醉木	Taiwan Pieris*	T4889 <i>Pieris formosa</i>
MEI LI MAO ZHU MU	美丽帽柱木	Beautiful Mitragyna*	T4258 <i>Mitragyna speciosa</i>
MEI LI TE LE JU	美丽特勒菊		T6326 <i>Telekia speciosa</i>
MEI LI TENG HUANG	美丽藤黄*	Beautiful Garcinia*	T2875 <i>Garcinia speciosa</i>
MEI LI XIN MU JIANG ZI	美丽新木姜子	Beautiful Newlitse	T4405 <i>Neolitsea pulchella</i>
MEI LI XUAN FU HUA	美丽旋覆花*	Beautiful Inula*	T3435 <i>Inula magnifica</i>
MEI LI YE HUI MAO DOU	美丽叶灰毛豆*	Beautiful-leaf Tephrosia*	T6332 <i>Tephrosia calophylla</i>
MEI LI YIN BEI TENG	美丽银背藤*	Woolly Morning Glory	T0616 <i>Argyreia speciosa</i>
MEI LI ZHU SHI DOU	美丽猪屎豆	Beautiful Crotalaria	T1834 <i>Crotalaria spectabilis</i>
MEI SHANG LU	美商陆	American Pokeweed	T4861 <i>Phytolacca americana</i> [Syn. <i>Phytolacca decandra</i>]
MEI SUI XIAO BO	美穗小檗	Beautiful-raceme Barberry	T0900 <i>Berberis calliobotrys</i>
MEI TE NI DU JUAN HUA	梅特尼杜鹃花	Metternich Rhododendron*	T5514 <i>Rhododendron metternichii</i> var. <i>hondoese</i>
MEI WEI CHI JUN	美味齿菌	Sweet Tooth	T3302 <i>Hydnum repandum</i>
MEI WEI HONG GU	美味红菇	Milk-white Russula	T5620 <i>Russula delica</i>
MEI WEI MI HOU TAO	美味猕猴桃	Delicious Actinidia	T0160 <i>Actinidia deliciosa</i>
MEI YI	梅衣	Tinctorial Parmelia*	T4658 <i>Parmelia tinctorum</i>
MEI YUAN ZHI	美远志	Senega Snakeroot	T5084 <i>Polygala senega</i>
MEI ZHOU CHA MU	美洲檫木	Sassafras	T5744 <i>Sassafras albidum</i>
MEI ZHOU CI SHEN	美洲刺参	American Spineginseng*	T4517 <i>Oplopanax horridus</i>
MEI ZHOU CI TONG	美洲刺桐	American Coralbean*	T2458 <i>Erythrina americana</i>
MEI ZHOU GAN CAO	美洲甘草	Scale Licorice*	T3017 <i>Glycyrrhiza lepidota</i>
MEI ZHOU GUAN YIN LIAN	美洲观音莲	Skunk Cabbage	T3994 <i>Lysichitum americanum</i>
MEI ZHOU HUA JIAO	美洲花椒	Pricklyash	T6863 <i>Zanthoxylum americanum</i> [Syn. <i>Xanthoxylum americanum</i>]
MEI ZHOU JIN LV MEI	美洲金缕梅	Virginia Witch Hazel	T3095 <i>Hamamelis virginiana</i>
MEI ZHOU KU MU	美洲苦木	Surinam Quassia	T5370 <i>Quassia amara</i>
MEI ZHOU LU QI MU	美洲绿桤木	American Green Alder	T0325 <i>Alnus crispa</i>
MEI ZHOU MAN MI PING GUO	美洲曼密苹果	Mamme Apple	T4093 <i>Mammea americana</i>
MEI ZHOU NAN SHE TENG	美洲南蛇藤	American Bittersweet	T1293 <i>Celastrus scandens</i>
MEI ZHOU SAN BAI CAO	美洲三白草	Lizard's-tail	T5749 <i>Saururus cernuus</i>
MEI ZHOU SUAN GUO LUO	美洲酸果萝	American Cranberry	T6671 <i>Vaccinium macrocarpon</i>
MEI ZHOU TUN CAO	美洲豚草	American Ragweed*	T0397 <i>Ambrosia artemisiaefolium</i>)
MEI ZHOU XUE GEN CAO	美洲血根草	Bloodroot	T5709 <i>Sanguinaria canadensis</i>
MEI ZHOU YE BAI HE	美洲野百合	American Crotalaria*	T1814 <i>Crotalaria anagyroides</i>
MEI ZHOU YU	美洲榆	American Elm	T6594 <i>Ulmus americana</i>
MENG DA NA CHUN HUANG JU	蒙大拿春黄菊	Montana Chamomile*	T0522 <i>Anthemis cretica</i> ssp. <i>cretica</i> [Syn.

MENG DA NA SHAN XIAO JU	蒙大拿山小橘*	Montana Glycosmis*	<i>Anthemis montana</i>
MENG DA NA YUN XIANG	蒙大拿芸香	Montana Rue*	T3007 <i>Glycosmis montana</i>
MENG DA NA ZI JIN	蒙大拿紫堇*	Montana Corydalis*	T5628 <i>Ruta montana</i>
MENG DI TENG	蒙迪藤		T1726 <i>Corydalis montana</i>
MENG GU CAO SU	蒙古糙苏	Mongolian Jerusalem sage	T4271 <i>Mondia whitei</i>
MENG GU CE JIN ZHAN HUA	蒙古侧金盏花	Mongolian Adonis*	T4810 <i>Phlomis mongolica</i>
MENG GU FENG MAO JU	蒙古风毛菊	Mongolian Saussurea*	T0187 <i>Adonis mongolica</i>
MENG GU HAO	蒙古蒿	Mongolian Wormwood	T5760 <i>Saussurea mongolica</i>
MENG GU HUANG QI	蒙古黄芪	Mongolian Milkvetch	T0685 <i>Artemisia mongolica</i>
MENG GU LI	蒙古栎	Mongolian Oak	T0800 <i>Astragalus mongholicus</i>
MENG GU SHAN LUO BO	蒙古山萝卜	Narrowleaf Scabious	T5375 <i>Quercus mongolica</i>
MENG GU XIU XIAN JU	蒙古绣线菊	Mongolian Spiraea	T5775 <i>Scabiosa comosa</i>
MENG MAI ROU DOU KOU	孟买肉豆蔻	Bombay Nutmeg*	T6083 <i>Spiraea mongolica</i>
MENG SANG	蒙桑	Mongolian Mulberry	T4352 <i>Myristica malabarica</i>
MENG ZI CAO HU JIAO	蒙自草胡椒	Mengzi Peperomia*	T4298 <i>Morus mongolica</i>
MENG ZONG ZHU	孟宗竹	Edible Bamboo	T4704 <i>Peperomia duclouxii</i>
MI DIE XIANG	迷迭香	Rosemary	T4844 <i>Phyllostachys edulis</i>
MI DIE XIANG YE QIAN LI GUANG	迷迭香叶千里光*	Rosmarin-leaf Groundsel*	T5575 <i>Rosmarinus officinalis</i>
MI GUO HUANG GUA	密果黄瓜*	Densefruit Cucumber*	T5905 <i>Senecio rosmarinifolius</i>
MI HAO	密蒿	Compact Wormwood*	T1877 <i>Cucumis myriocarpus</i>
MI HOU LI	猕猴桃	Bower Actinidia	T0674 <i>Artemisia compacta</i>
MI HOU LI GEN	猕猴桃根	Bower Actinidia Root*	T0155 <i>Actinidia arguta</i>
MI HOU TAO	猕猴桃	Yangtao Actinidia	T0156 <i>Actinidia arguta</i>
MI HUA DOU	密花豆	Suberect Spatholobus	T0158 <i>Actinidia chinensis</i>
MI HUA MEI DENG MU	密花美登木	Crown-flowered Mayten	T6066 <i>Spatholobus suberectus</i>
MI HUA SHI DOU LAN	密花石豆兰	Flowery Stonebean-orchid	T4131 <i>Maytenus confertiflorus</i>
MI HUA SHI HU	密花石斛	Denseflower Dendrobium	T1053 <i>Bulbophyllum odoratissimum</i> [Syn. <i>Stelis odoratissimum</i>]
MI HUA TUN CAO	密花豚草	Denseflower Ragweed*	T2100 <i>Dendrobium densiflorum</i>
MI HUA WA ER TENG	密花娃儿藤	Denseflower Tylophora*	T0400 <i>Ambrosia confertiflora</i>
MI HUA XIANG MAO	密花香茅	Denseflower Lemongrass*	T6579 <i>Tylophora crebriiflora</i>
MI HUA YAN FENG	密花岩凤	Denseflower Libanotis	T1940 <i>Cymbopogon densiflorus</i>
MI HUAN JUN	蜜环菌	Armillary Mushroom*	T3797 <i>Libanotis condensata</i>
MI HUO DA JI	迷惑大戟*		T0644 <i>Armillaria mellea</i>
MI LA	蜜蜡	Bee Wax	T2583 <i>Euphorbia decipiens</i>
MI MAI E ZHANG CHAI	密脉鹅掌柴	Densevein Schefflera	T0542 <i>Apis cerana</i>
MI MENG HUA	密蒙花	Pale Butterflybush	T5785 <i>Schefflera venulosa</i>
MI PI KANG	米皮糠	Rice Spermoderm	T1048 <i>Buddleja officinalis</i>
MI PU LUO TI YA MU	蜜普罗梯亚木	Sugar Bush	T4546 <i>Oryza sativa</i>
MI SAN QIAN LI GUANG	密伞千里光	Faber Groundsel	T5212 <i>Protea mellifera</i>
MI SHI MA QIAN ZI	米氏马钱子*	Mittschelich Poisonnut*	T5887 <i>Senecio faberi</i>
MI SI KE HUANG TAN	米斯科黄檀	Miscol Rosewood*	T6180 <i>Strychnos mittschelichii</i>
MI SUI HUA SHE BIAN JU	密穗花蛇鞭菊*	Kansas Gay-feather	T2005 <i>Dalbergia miscolobium</i>
MI TI BING HUA JU	米梯柄花菊		T3790 <i>Liatris pycnostachya</i>
MI XIAO YING QIN	密小鹰芹*		T5034 <i>Podanthus mitiqui</i>
MI ZI LAN	米仔兰	Chu-lan Tree	T0839 <i>Azorella compacta</i>
MIAN BAO GUO	面包果	Common Artocarpus*	T0240 <i>Aglaita odorata</i>
MIAN BI XIE	绵萆薢	Sevenlobed Yam	T0714 <i>Artocarpus incisa</i> [Syn. <i>Artocarpus communis</i>]
MIAN GEN TENG	面根藤	Ivy Glorybind	T2208 <i>Dioscorea septemloba</i>
MIAN HUA	棉花	Levant Cotton	T1143 <i>Calystegia hederacea</i>
			T3055 <i>Gossypium herbaceum</i>

MIAN HUA GEN	棉花根	Levant Cotton Root	T3056 <i>Gossypium herbaceum</i>
MIAN MA	绵马	Male-fern	T2282 <i>Dryopteris filix-mas</i>
MIAN MAO GOU TENG	绵毛钩藤*	Woolly Gambirplant*	T6623 <i>Uncaria lanosa</i>
MIAN MAO GUO XIANG CHA CAI	绵毛果香茶菜	Woollyfruit Rabdosia*	T3501 <i>Isodon lasiocarpus</i>
MIAN MAO HUANG QI	绵毛黄芪	Sieversia Milkvetch	T0804 <i>Astragalus sieversianus</i>
MIAN MAO MA DOU LING	绵毛马兜铃	Woolly Dutchmanspipe	T0634 <i>Aristolochia mollissima</i>
MIAN MAO WA ER TENG	绵毛娃儿藤	Woolly Tylophora	T6581 <i>Tylophora mollissima</i>
MIAN MAO XIE HAO	绵毛邪蒿	Woolly Seseli*	T5929 <i>Seseli ericephalum</i>
MIAN NING WU TOU	冕宁乌头	Legendre Monkshood	T0110 <i>Aconitum legendrei</i>
MIAN TENG Warb	绵藤	Pale Bittersweet	T1287 <i>Celastrus hypoleucus</i>
MIAN TOU XUE LIAN	绵头雪莲	Lanatchead Saussurea	T5757 <i>Saussurea laniceps</i>
MIAN TOU YE	面头叶	Smallleaf Knema	T3630 <i>Kleinhovia hospita</i>
MIAN YE MA FENG SHU	棉叶麻风树	Cotton-leaf Leprous Tree*	T3561 <i>Jatropha gossypifolia</i>
MIAN ZAO	缅枣	Indian Jujube	T6920 <i>Ziziphus mauritiana</i>
MIAN ZAO ER	绵枣儿	Common Squill	T5813 <i>Scilla scilloides</i>
MIAN ZI YOU	棉籽油	Levant Cotton Oil	T3057 <i>Gossypium herbaceum</i>
MIN HUAI	闽槐	Franchet Sophora	T6033 <i>Sophora franchetiana</i>
MIN WAN BA JIAO	闽皖八角	Minwan Anisetree	T3405 <i>Illicium minwanense</i>
MING DANG SHEN	明党参	Medicinal Changium	T1353 <i>Changium smyrnioides</i>
MING SONG YE JU	明松叶菊	Anatomicum Fig*	T4199 <i>Mesembryanthemum anatomicum</i>
MING XIAN HUA ZHU CHANG	明显花柱长柱琉璃草*	Longstyle Lindelofia	T3846 <i>Lindelofia stylosa</i>
ZHU LIU LI CAO			
MO E SUAN MO	膜萼酸模	Canaigre	T5610 <i>Rumex hymenosepalus</i>
MO GU	蘑菇	Mushroom	T0211 <i>Agaricus campestris</i>
MO GUO MA HUANG	膜果麻黄	Przewalsk Ephedra	T2377 <i>Ephedra przewalskii</i>
MO GUO QIN	迷果芹	Thin Sphallerocarpus	T6073 <i>Sphallerocarpus gracilis</i>
MO HAN LIAN	墨旱莲	Yerbadetajo	T2323 <i>Eclipta prostrata</i> [Syn. <i>Eclipta alba</i>]
MO JUE	膜蕨	Barbate Filmy Fern	T3324 <i>Hymenophyllum barbatum</i>
MO LEI NAN YANG SHEN	墨累南洋参*	Murri Polyscias*	T5131 <i>Polyscias murrayi</i>
MO LI HUA	茉莉花	Arabian Jasmine	T3557 <i>Jasminum sambac</i>
MO LI YU TENG	莫里鱼藤*	Molly Jewelvine*	T2121 <i>Derris mollis</i>
MO LUO SHI REN DONG	莫罗氏忍冬	Morrow Honeysuckle	T3915 <i>Lonicera morrowii</i>
MO PAN CAO	磨盘草	Indian Abutilon	T0015 <i>Abutilon indicum</i>
MO SANG BI KE MEI DENG MU	莫桑比克美登木*	Mozambique Mayten*	T4137 <i>Maytenus mossambicensis</i>
MO SHI ZI	没食子	Aleppo Gall (Galla Halepensis)	T5374 <i>Quercus infectoria</i>
MO XI GE DUI XIN JU	墨西哥堆心菊	Mexico Sneezeweed*	T3138 <i>Helenium mexicanum</i>
MO XI GE HAO	墨西哥蒿	Mexico Wormwood*	T0684 <i>Artemisia mexicana</i> var. <i>angustifolia</i>
MO XI GE LUO YU SHAN	墨西哥落羽杉	Mexican Cypress*	T6306 <i>Taxodium mucronatum</i>
MO XI GE XIANG RI KUI	墨西哥向日葵	Mexican Sunflower	T6470 <i>Tithonia tagiliflora</i>
MO XI GE XUAN HUA	墨西哥旋花	Mexico Glorybind*	T5551 <i>River corymbosa</i>
MO XIANG JING	抹香鲸	Cachalot	T4856 <i>Physeter catodon</i>
MO YAO	没药	Myrrh	T1638 <i>Commiphora myrrha</i> [Syn. <i>Commiphora molmo</i>]
MO ZHI JIAO GU CUI	膜质脚骨脆*	Membranous Casearia*	T1224 <i>Casearia membranacea</i>
MO ZHI JU	膜质菊		T3325 <i>Hymenoxys grandiflora</i>
MU BAN SHU	木瓣树	Common Xylopia	T6855 <i>Xylopia vielana</i>
MU BIE GEN	木鳖根	Cochinchina Momordica Root	T4264 <i>Momordica cochinchinensis</i>
MU BIE ZI	木鳖子	Cochinchina Momordica Seed	T4265 <i>Momordica cochinchinensis</i>
MU CHAI HU	木柴胡	Fruticose Thorowax*	T1061 <i>Bupleurum frutescens</i>
MU DAN PI	牡丹皮	Subshrubby Peony Bark	T4585 <i>Paeonia moutan</i> [Syn. <i>Paeonia suffruticosa</i>]
MU DI XIANG WAN DOU	牧地香豌豆	Meadow Peavine	T3709 <i>Lathyrus pratensis</i>
MU DOU SHU	牧豆树	Algarroba	T5210 <i>Prosopis juliflora</i>

MU ER	木耳	Jew's Ear	T0830 <i>Auricularia auricula</i>
MU ER DU MA CAO	穆尔毒马草*	Moor Sideritis*	T5945 <i>Sideritis moorei</i>
MU FANG JI	木防己	Japanese Snailseed	T1589 <i>Cocculus trilobus</i> [Syn. <i>Cocculus sarmentosus</i>]
MU FU RONG HUA	木芙蓉花	Cottonrose Hibiscus Flower	T3241 <i>Hibiscus mutabilis</i>
MU GUA	木瓜	Chinese Floweringquince	T1343 <i>Chaenomeles sinensis</i>
MU GUI	牡桂	Lourei Cinnamon*	T1442 <i>Cinnamomum loureirii</i>
MU HAO	牡蒿	Japanese Wormwood	T0678 <i>Artemisia japonica</i>
MU HE	慕荷	Fingerleaf Rodgersflower	T5554 <i>Rodgersia aesculifolia</i>
MU HU DIE	木蝴蝶	Indian Trumpetflower	T4537 <i>Oroxylum indicum</i>
MU HU DIE SHU PI	木蝴蝶树皮	Indian Trumpetflower Bark	T4538 <i>Oroxylum indicum</i>
MU JIN HUA	木槿花	Shrubalthea Flower	T3244 <i>Hibiscus syriacus</i>
MU JIN PI	木槿皮	Shrubalthea Bark	T3245 <i>Hibiscus syriacus</i>
MU JIN ZI	木槿子	Shrubalthea Fruit	T3246 <i>Hibiscus syriacus</i>
MU ⁽³⁾ JU	母菊	Mayweed	T4124 <i>Matricaria chamomilla</i> [Syn. <i>Matricaria recutita</i>]
MU ⁽⁴⁾ JU	木橘	Sepiaria	T0197 <i>Aegle marmelos</i>
MU KU ER MO YAO	穆库尔没药	Muhul Myrrhree*	T1637 <i>Commiphora mukul</i>
MU LAN ⁽³⁾	木榄	Common Bruguiera	T1039 <i>Bruguiera gymnorrhiza</i>
MU LAN ⁽²⁾	木蓝	True Indigo	T3423 <i>Indigofera tinctoria</i>
MU LI	牡蛎	Oyster	T1768 <i>Crassostrea gigas</i>
MU LI LU	木藜芦	One Sided Racemes Leucothoe	T3784 <i>Leucothoe grayana</i>
MU LI ROU	牡蛎肉	Oyster Meat	T4555 <i>Ostrea rivularis</i> ; <i>Ostrea talienwhanensis</i> ; <i>Ostrea gigas</i>
MU MA DOU	牧马豆	Lanceleaf Thermopsis	T6428 <i>Thermopsis lanceolata</i>
MU MA HUANG	木麻黄	Horsetail Beefwood	T1258 <i>Casuarina equisetifolia</i>
MU MIAN HUA	木棉花	Common Bombax Flower	T0973 <i>Bombax malabaricum</i> [Syn. <i>Gossampinus malabarica</i>]
MU SHU DI SHANG BU FEN	木薯地上部分	Cassave Aerial Parts	T4104 <i>Manihot esculenta</i>
MU TI CENG KONG JUN	木蹄层孔菌		T2748 <i>Fomes fomentarius</i> [Syn. <i>Pyropolyporus fomentarius</i> ; <i>Boletus fomentarius</i> ; <i>Polyporus fomentarius</i>]
MU TIAN LIAO	木天蓼	Silvervine Actinidia	T0164 <i>Actinidia polygama</i>
MU TONG	木通	Fiveleaf Akebia	T0273 <i>Akebia quinata</i>
MU TONG GEN	木通根	Fiveleaf Akebia Root	T0274 <i>Akebia quinata</i>
MU TONG HAO	木茼蒿	Marguerite	T1391 <i>Chrysanthemum frutescens</i>
MU XIANG	木香	Common Aucklandia (Costustoot)	T5758 <i>Saussurea lappa</i> [Syn. <i>Aucklandia lappa</i>]
MU XU	苜蓿	Alfalfa	T4148 <i>Medicago sativa</i>
MU XU GEN	苜蓿根	Alfalfa Root	T4149 <i>Medicago sativa</i>
MU YE LONG DAN	牧野龙胆	Pasture Gentian*	T2920 <i>Gentiana makinoi</i>
MU ZEI	木贼	Common Scouring Rush	T2408 <i>Equisetum hiemale</i>
MU ZEI MA HUANG	木贼麻黄	Mongolian Ephedra	T2367 <i>Ephedra equisetina</i>
NA ER ZI YU PAN	那耳紫玉盘	Nar Uvaria*	T6666 <i>Uvaria narum</i>
NA SHI XI GUA	纳氏西瓜*	Naudin Citrullus*	T1462 <i>Citrullus naudianus</i>
NA TENG	那藤	Japanese Stauntonvine	T6100 <i>Stauntonia hexaphylla</i>
NA TENG GUO	那藤果	Japanese Stauntonvine Fruit	T6101 <i>Stauntonia hexaphylla</i>
NAI SANG	奶桑	Long-tail Mulberry*	T4297 <i>Morus macroua</i>
NAN CHUAN GUAN CHUN HUA	南川冠唇花	Prairie Microtoena	T4226 <i>Microtoena prainiana</i>
NAN CHUAN LU SI CAO	南川鹭鸶草	S. Sichuan Egretgrass	T2240 <i>Diuranthera inarticulata</i>
NAN CHUAN SHENG MA	南川升麻	Nanchuan Bugbane*	T1423 <i>Cimicifuga nanchuanensis</i>
NAN DA JI	南大戟	Jolkin Euphorbia	T2594 <i>Euphorbia jolkini</i>
NAN DAN SHEN	南丹参	Bowley Sage	T5661 <i>Salvia bowleyana</i>
NAN DE WA MIAN	南德瓦棉	Nandewa Cotton*	T3060 <i>Gossypium sturtianum</i> var.

NAN FANG LIU LI CAO	南方琉璃草*	South Houndstongue*	<i>nandewarence</i>
NAN FANG OU SHI NAN	南方欧石南*	Spanish Heath	T1968 <i>Cynoglossum australe</i>
NAN FANG TU SI ZI	南方菟丝子	South Dodder Seed	T2416 <i>Erica australis</i>
NAN FEI CONG SHENG LA JU	南非丛生蜡菊*	South-Africa Tufted Everlasting*	T1911 <i>Cuscuta australis</i>
NAN FEI GOU MA	南非钩麻	Devil's Clow	T3157 <i>Helichrysum caespitium</i>
NAN FEI JI TOU SHU	南非鸡头薯	South-African Eriosema*	T3106 <i>Harpagophytum procumbens</i>
NAN FEI ZHANG GUI	南非樟桂*		T2436 <i>Eriosema kraussianum</i>
NAN GUA	南瓜	Cushaw	T4477 <i>Ocotea bullata</i>
NAN GUA ZI	南瓜子	Cushaw Seed	T1880 <i>Cucurbita moschata</i>
NAN HE SHI	南鹤虱	Wild Carrot Fruit	T1881 <i>Cucurbita moschata</i>
NAN LING QIAN HU	南岭前胡	Nanling Hogfennel	T2049 <i>Daucus carota</i>
NAN LUN HUAN TENG	南轮环藤	Tonkin Cyclea	T4761 <i>Peucedanum longshengens</i>
NAN MEI FANG JI	南美防己		T1934 <i>Cyclea tonkinensis</i>
NAN MEI NIU NAI CAI	南美牛奶菜	Condurango	T1383 <i>Chondrodendron tomentosum</i>
NAN MEI ZHOU GUI	南美洲桧	Southern Red-cedar	T4115 <i>Marsdenia condurango</i>
NAN MU	楠木	Nanmu	T3598 <i>Juniperus silicicola</i>
NAN OU DAN SHEN	南欧丹参	Clary	T4818 <i>Phoebe nanmu</i>
NAN RI BEN LEI GONG TENG	南日本雷公藤	South-Japan Threewingnut*	T5691 <i>Salvia sclarea</i>
NAN SHAN HUA	南山花	Furstamen Pristomeris	T6539 <i>Tripterygium doianum</i>
NAN SHAN TENG	南山藤	Twisting Dregea	T5207 <i>Pristomeris tetrandra</i>
NAN SHE TENG	南蛇藤	Oriental Bittersweet	T2263 <i>Dregea volubilis</i>
			T1288 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]
NAN SHE TENG GEN	南蛇藤根	Oriental Bittersweet Root	T1289 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]
NAN SHE TENG YE	南蛇藤叶	Oriental Bittersweet Leaf	T1290 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]
NAN SHE TENG GUO	南蛇藤果	Oriental Bittersweet Fruit	T1291 <i>Celastrus orbiculatus</i> [Syn. <i>Celastrus articulatus</i>]
NAN SHE TENG ZHUANG	南蛇藤状山橙	<i>Celastrus Melodinus*</i>	T4177 <i>Melodinus celastroides</i>
SHAN CHENG			
NAN SU GE LAN JIA SHAN LUO	南苏格兰假山萝*	Southern-caledonian Tulipwood*	T3107 <i>Harpullia austro-caledonica</i>
NAN SUAN ZAO	南酸枣	Axillary Southem Wildjujube	T1381 <i>Choerospondias axillaris</i>
NAN TIAN ZHU GEN	南天竹根	Common Nandina Root	T4368 <i>Nandina domestica</i>
NAN TIAN ZHU GENG	南天竹梗	Common Nandina Stem	T4369 <i>Nandina domestica</i>
NAN TIAN ZHU YE	南天竹叶	Common Nandina Leaf	T4370 <i>Nandina domestica</i>
NAN TIAN ZHU ZI	南天竹子	Common Nandina Fruit	T4371 <i>Nandina domestica</i>
NAN TONG HAO	南茼蒿	South Chrysanthemum	T1397 <i>Chrysanthemum segetum</i>
NAN TOU QIU HAI TANG	南投秋海棠	Nantou Begonia*	T0891 <i>Begonia nantoensis</i>
NAN XI BAN YA HUAN YANG SHEN	南西班牙还阳参	Southern-Spain Hawksbeard*	T1790 <i>Crepis tingitana</i>
NAN YA HAN XIAO	南亚含笑	South Asia Michelia	T4212 <i>Michelia doltsopa</i>
NAN YIN DU CHUAN XIN LIAN	南印度穿心莲	South-India Andrographis*	T0460 <i>Andrographis viscosula</i>
NAN YIN DU SU TIE SHU GUO	南印度苏铁树果	South-India Sago Seed*	T1925 <i>Cycas beddomei</i>
NAN ZHU ZHI	南烛子	Oriental Blueberry Fruit	T6670 <i>Vaccinium bracteatum</i>
NANG GAI SI GUA	囊盖丝瓜*	Buchinha (Brazil Herb)	T3936 <i>Luffa operculata</i>
NANG ZHUANG MAO RUI HUA	囊状毛蕊花*	Saccate Mullein*	T6703 <i>Verbascum saccatum</i>
NANG ZHUANG ZI TAN	囊状紫檀	Vengai Padauk	T5302 <i>Pterocarpus marsupium</i>
NAO YANG HUA	闹羊花	Chinese Azalea	T5516 <i>Rhododendron molle</i>
NAO YANG HUA ZI	闹羊花子	Chinese Azalea Fruit	T5517 <i>Rhododendron molle</i>
NEI FENG XIAO	内风消五味子	Black Magnoliavine*	T5796 <i>Schisandra nigra</i>
NEI GUO BAI CEN	美国白栎	White Ash	T2765 <i>Fraxinus americana</i>
NEI HUA YI WA JU	内华依瓦菊		T3545 <i>Iva nevadensis</i>

NEI NAN WU WEI ZI	内南五味子	Fengqing Kadsura	T3615 <i>Kadsura interior</i>
NEI ZHE XIANG CHA CAI	内折香茶菜	Inflexed Rabdosia	T3494 <i>Isodon inflexa</i> [Syn. <i>Rabdosia inflexa</i>]
NEN YE JIU LI XIANG	嫩叶九里香	Juvenileleaf Common Jasminorange	T4321 <i>Murraya microphylla</i>
NI A LUO	逆阿落		T5112 <i>Polygonum perigrinatoris</i>
NI BO ER DU HUO	尼泊尔独活	Nepal Cowparsnip	T3219 <i>Heracleum nepalense</i>
NI BO ER LAO GUAN CAO	尼泊尔老鹳草	Nepal Cranesbill	T2943 <i>Geranium nepalense</i>
NI BO ER LV RONG HAO	尼泊尔绿绒蒿	Nepal Meconopsis	T4144 <i>Meconopsis nepaulensis</i>
NI BO ER SONG CAO	尼泊尔嵩草	Nepal Kobresia*	T3633 <i>Kobresia nepalensis</i>
NI BO ER WU TOU	尼泊尔乌头	Nepal Monkshood	T0093 <i>Aconitum ferox</i>
NI BO ER YANG TI	尼泊尔羊蹄	Nepal Dock	T5612 <i>Rumex nepalensis</i>
NI DAN SHEN	拟丹参	Chinese Sage	T5692 <i>Salvia sinica</i>
NI DONG FENG LUO	泥东风螺*		T0843 <i>Babylonia lutosa</i>
NI GU LA SHI CHE JU	尼古拉矢车菊*	Nicola Centaurea*	T1306 <i>Centaurea nicolai</i>
NI GUANG SHI WEI	拟光石韦	Pseudobald Pyrrosia*	T5359 <i>Pyrrosia pseudocalvata</i>
NI HU CAI	泥胡菜	Lyrate Hemistepta	T3202 <i>Hemistepta lyrata</i> [Syn. <i>Hemistepta carthamoides</i> ; <i>Saussurea carthamoides</i>]
NI JIN ZHAN JU	拟金盏菊	Cape Dandelion	T6687 <i>Venidium decurrens</i>
NI LUO HE CHENG LIU	尼罗河柽柳*	Nilotic Tamarisk*	T6289 <i>Tamarix nilotica</i>
NI LUO HE JIN YIN LIAN	尼罗河金银棘	Nile Starbush*	T6570 <i>Turraea nilotica</i>
NI RI LI YA LIANG RUI SU MU	尼日利亚两蕊苏木	Nigerian Satinwood	T2239 <i>Distemonanthus benthamianus</i>
NI TAN XIAN	泥炭藓		T6072 <i>Sphagnum palustre</i> [Syn. <i>Sphagnum obtusifolium</i> ; <i>Sphagnum cymbifolium</i>]
NI YU LONG WU TOU	拟玉龙乌头	Pseudostapfia Monkshood	T0125 <i>Aconitum pseudostapfianum</i>
NI ZHAO MU JIANG ZI	泥沼木姜子	Sloughy Litsea*	T3896 <i>Litsea turfosa</i>
NIAN BAO CHUN	黏报春*	Viscid Primrose*	T5205 <i>Primula viscosa</i>
NIAN HAO	黏蒿*	Viscid Wormwood*	T0670 <i>Artemisia cana</i> ssp. <i>viscidula</i>
NIAN MAO SHU WEI CAO	黏毛鼠尾草	Roborowsk Sage	T5690 <i>Salvia roborowskii</i>
NIAN WEI LING CAI	黏委陵菜	Viscose Cinquefoil*	T5188 <i>Potentilla viscosa</i>
NIAN XING AI LEI JU	黏性埃勒菊		T2324 <i>Egletes viscosa</i>
NIAN XING GUO SHI SUAN JIANG	黏性果实酸浆*		T4850 <i>Physalis ixocarpa</i>
NIAN XING TU MU XIANG	黏性土木香*	Woody Fleabane	T3441 <i>Inula viscosa</i>
NIAN YE YOU ⁽²⁾	黏叶菘	Glutinous Bluebeard	T1222 <i>Caryopteris glutinosa</i>
NIAN YU	鲇鱼		T4644 <i>Parasilurus asotus</i>
NIAN YU XU	鲇鱼须	Siebold Greenbrier	T5982 <i>Smilax sieboldii</i>
NIAN ZHI JIN ZHI JU	黏质金枝菊*		T1409 <i>Chrysothamnus viscidiflorus</i>
NIAN ZHI LUO LIN	黏质罗林	Mucosa Rollinia*	T5558 <i>Rollinia mucosa</i>
NING BIAN E TAI	宁扁萼苔		T5404 <i>Radula perrottetii</i>
NING GU SHUI QIE	凝固睡茄	Coagulate Withania	T6828 <i>Withania coagulans</i>
NING GUO BEI MU	宁国贝母	Ningguo Fritillary	T2789 <i>Fritillaria ningguoensis</i>
NING MENG	柠檬	Lemon	T1490 <i>Citrus limon</i>
NING MENG AN YE	柠檬桉叶	Lemon Eucalyptus Leaf	T2505 <i>Eucalyptus citriodora</i>
NING MENG GEN	柠檬根	Lemon Root	T1491 <i>Citrus limon</i>
NING MENG PI	柠檬皮	Lemon Pericarp	T1492 <i>Citrus limon</i>
NING MENG YE	柠檬叶	Lemon Leaf	T1493 <i>Citrus limon</i>
NING XIA BEI MU	宁夏贝母	Ningxia Fritillary	T2795 <i>Fritillaria taipaiensis</i> var. <i>ningxiaensis</i>
NING XIA GOU QI GEN PI	宁夏枸杞根皮	Barbary Wolfberry Root-bark*	T3954 <i>Lycium barbarum</i>
NING XIA GOU QI ZI	宁夏枸杞子	Barbary Wolfberry Fruit	T3955 <i>Lycium barbarum</i>
NIU BANG GEN	牛蒡根	Great Burdock Root	T0584 <i>Arctium lappa</i>
NIU BANG YE	牛蒡叶	Great Burdock Leaf*	T0585 <i>Arctium lappa</i>
NIU BANG YE DU WU	牛蒡叶囊吾	Dockleaf Goldenray	T3809 <i>Ligularia lapathifolia</i>
NIU BANG ZI	牛蒡子	Great Burdock Fruit	T0586 <i>Arctium lappa</i>
NIU BIAN	牛扁	Puberulent Monkshood	T0078 <i>Aconitum barbatum</i> var. <i>puberulum</i>

NIU DAN	牛胆	Ox Gall	[Syn. <i>Aconitum ochranthum</i>]
NIU ER DA HUANG	牛耳大黄	Crisped Dock	T0984 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU ER FENG ZI	牛耳枫子	Calyx-shaped Daphniphyllum Fruit	T5607 <i>Rumex crispus</i>
NIU FANG FENG	牛防风	Hogweed	T2032 <i>Daphniphyllum calycinum</i>
NIU FEI	牛肺	Ox Lung	T3224 <i>Heracleum sphondylium</i>
NIU GAN	牛肝	Ox Liver	T0985 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU HAO	牛蒿	Taurine Wormwood*	T0986 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU HUANG	牛黄	Cow-bezoar (Ox-gallstone)	T0701 <i>Artemisia taurica</i>
NIU JIN GUO	牛筋果	Perforated Harrisonia	T0987 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU JIN QIAN LI GUANG	牛津千里光*	Oxford Ragwort	T3109 <i>Harrisonia perforata</i>
NIU JIN TIAO	牛筋条	Common Oxmuscle	T5912 <i>Senecio squalidus</i>
NIU NAO	牛脑	Ox Brain	T2157 <i>Dichotomanthes tristaniaecarpa</i>
NIU PI CHA	牛皮茶	Goldmat Rhododendron	T0988 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU QU SONG YE JU	扭曲松叶菊	Tortuous Fig*	T5505 <i>Rhododendron chrysanthum</i>
NIU QU TI GEN CAO	扭曲嚏根草*	Tortuous Hellebore*	T4202 <i>Mesembryanthemum tortuosum</i>
			T3188 <i>Helleborus torquatus</i> [Syn. <i>Helleborus serbicus</i>]
NIU RU	牛乳	Cow Milk	T0989 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU SHE CAO	牛舌草	Toothedfruit Dock	T5608 <i>Rumex dentatus</i>
NIU SHE TOU	牛舌头	Field Sowthistle	T6025 <i>Sonchus arvensis</i>
NIU SHEN	牛肾	Ox Kidney	T0990 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU TI DOU	牛蹄豆	Guamachil Apea-earring	T4985 <i>Pithecolobium dulce</i>
NIU WEI CAI	牛尾菜	Oxtail Greenbrier	T5981 <i>Smilax riparia</i>
NIU WEI CAO XIANG CHA CAI	牛尾草	Ternateleaf Rabdosia	T3528 <i>Isodon ternifolia</i>
NIU WEI DU HUO	牛尾独活	Hemsley Cowparsnip	T3213 <i>Heracleum hemsleyanum</i>
NIU XI	牛膝	Twotooth Achyranthes	T0073 <i>Achyranthes bidentata</i>
NIU XI XI	牛西西	Patience Dock	T5614 <i>Rumex patientia</i>
NIU XIN FAN LI ZHI	牛心番荔枝	Bullocksheart Custardapple	T0511 <i>Annona reticulata</i>
NIU XIN PIAO ZI	牛心朴子	Komarov Mosquitotrap	T1957 <i>Cynanchum komarovii</i>
NIU XIN QIE ZI	牛心茄子	Common Cerberustree	T1330 <i>Cerbera manghas</i>
NIU XUAN JIN HE HUAN	扭旋金合欢*	Tortile Acacia*	T0033 <i>Acacia tortilis</i> ssp. <i>raddiana</i>
NIU XUE	牛血	Ox Blood	T0991 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NIU YAN MA QIAN	牛眼马钱	Narrowflower Poisonnut	T6166 <i>Strychnos angustiflora</i>
NIU YAN PENG QI JU	牛眼蟛蜞菊		T6906 <i>Zexmenia buphthalmiflora</i>
NIU YE	牛膈	Ox Thyroid	T0992 <i>Bos taurus domesticus</i> ; <i>Bubalus bubalis</i>
NONG DA JI	浓大戟*	Dense Euphorbia*	T2588 <i>Euphorbia fortissima</i>
NU JIANG SHAN CHA	怒江山茶	Salwin Camellia	T1148 <i>Camellia saluenensis</i>
NUO DAO	糯稻	Sticky Rice	T4548 <i>Oryza sativa</i> var. <i>glutinosa</i>
NUO WEI QI	挪威槭	Norway Maple	T0052 <i>Acer platanoides</i>
NV ZHEN XIAO LA SHU	女贞小蜡树	Chinese Privet	T3830 <i>Ligustrum sinense</i>
NV ZHEN ZI	女贞子	Glossy Privet Fruit	T3828 <i>Ligustrum lucidum</i>
OU	藕	Hindu Lotus Large Rhizome	T4402 <i>Nelumbo nucifera</i>
OU BO HE	欧薄荷	Horse Mint	T4185 <i>Mentha longifolia</i>
OU CANG ZHU	欧苍术	Gummy Atractylodes*	T0820 <i>Atractylodes gummifera</i>
OU DANG GUI	欧当归	Garden Lovage	T3785 <i>Levisticum officinale</i>
OU DI SUN	欧地笋	European Bugleweed	T3979 <i>Lycopus europaeus</i>
OU DING XIANG	欧丁香	Common Lilac	T6262 <i>Syringa vulgaris</i>
OU FANG FENG	欧防风	Garden Parsnip	T4669 <i>Pastinaca sativa</i>
OU JIN KUI	欧锦葵	High Mallow	T4091 <i>Malva sylvestris</i>
OU LANG DANG	欧菘蓂	European Scopolia	T5820 <i>Scopolia carniolica</i>
OU LI REN	欧李仁	Chinese Dwarf Cherry Seed	T5223 <i>Prunus humilis</i> [Syn. <i>Cerasus humilis</i>]
OU MAN TUO LUO GEN	欧曼陀罗根	Jimsonweed Root	T2046 <i>Datura stramonium</i>
OU QIAN HU	欧前胡	Masterwort	T4766 <i>Peucedanum ostruthium</i>

OU SHI NAN	欧石南	Tree Heath	T2415 <i>Erica arborea</i>
OU SHU LI	欧鼠李	Glossy Buckthorn	T5460 <i>Rhamnus frangula</i> [Syn. <i>Frangula alnus</i>]
OU WUTOU	欧乌头	Aconite	T0118 <i>Aconitum napellus</i>
OU XI XIN	欧细辛	Asarabacca	T0725 <i>Asarum europaeum</i>
OU XIA ZHI CAO	欧夏至草	Common Hoarhound	T4114 <i>Marrubium vulgare</i>
OU YA GAN CAO	欧亚甘草	Typical Licorice*	T3014 <i>Glycyrrhiza glabra</i> var. <i>typica</i>
OU YA QI	欧亚槭	Great Maple	T0053 <i>Acer pseudoplatanus</i>
OU YA RUI XIANG	欧亚瑞香	Mezereon	T2026 <i>Daphne mezereon</i>
OU ZE QIN	欧泽芹	Greater Water-parsnip	T5969 <i>Sium latifolium</i>
OU ZHOU BAI LA SHU	欧洲白蜡树	European Ash	T2768 <i>Fraxinus excelsior</i>
OU ZHOU BAI LI	欧洲白栎	Common Oak	T5377 <i>Quercus robur</i>
OU ZHOU CHI SONG	欧洲赤松	Scotch Pine	T4926 <i>Pinus sylvestris</i>
OU ZHOU CI BAI	欧洲刺柏	Common Juniper	T3583 <i>Juniperus communis</i>
OU ZHOU CI BAI BIAN ZHONG	欧洲刺柏变种	Common Juniper Variety*	T3584 <i>Juniperus communis</i> var. <i>depressa</i>
OU ZHOU DU HUO	欧洲独活	European Cowparsnip*	T3220 <i>Heracleum pyrenaicum</i>
OU ZHOU HUA QIU	欧洲花楸	European Mountainash	T6053 <i>Sorbus aucuparia</i>
OU ZHOU JIA ZHU TAO	欧洲夹竹桃	Common Oleander	T4420 <i>Nerium oleander</i>
OU ZHOU JUE	欧洲蕨	Bracken	T5283 <i>Pteridium aquilinum</i>
OU ZHOU LAN MO LI	欧洲蓝茉莉	European Leadwort*	T5027 <i>Plumbago europaea</i>
OU ZHOU LENG SHAN	欧洲冷杉	European Silver Fir	T0003 <i>Abies alba</i>
OU ZHOU LI	欧洲栗	Spanish Chestnut	T1255 <i>Castanea sativa</i>
OU ZHOU LOU DOU CAI	欧洲楼斗菜	European Columbine	T0558 <i>Aquilegia vulgaris</i>
OU ZHOU MA DOU LING	欧洲马兜铃	Dutchmanspipe	T0638 <i>Aristolochia siphon</i>
OU ZHOU MI FENG HUA	欧洲蜜蜂花	Balmleaf Metittis	T4175 <i>Melittis melissophyllum</i>
OU ZHOU MO YAO	欧洲没药	Sweet Cicely	T4360 <i>Myrrhis odorata</i>
OU ZHOU NV ZHEN	欧洲女贞	European Privet	T3831 <i>Ligustrum vulgare</i>
OU ZHOU PING PENG CAO	欧洲萍蓬草	European Cowlily	T4449 <i>Nuphar luteum</i>
OU ZHOU QI MU	欧洲槲木	European Alder	T0326 <i>Alnus glutinosa</i>
OU ZHOU QI YE SHU	欧洲七叶树	Horsechestnut	T0202 <i>Aesculus hippocastanum</i>
OU ZHOU QIAN LI GUANG	欧洲千里光	Common Groundsel	T5915 <i>Senecio vulgaris</i>
OU ZHOU SHAN JIE	欧洲山芥	Upland Cress	T0870 <i>Barbarea vulgaris</i>
OU ZHOU SHAN YANG	欧洲山杨	Aspen	T5162 <i>Populus tremula</i>
OU ZHOU SHENG GU YOU	欧洲省沽油	European Bladdernut, Pinnate Bladdernut	T6098 <i>Staphylea pinnata</i>
OU ZHOU SHUI QING GANG	欧洲水青冈	European Beech	T2662 <i>Fagus sylvatica</i>
OU ZHOU SONG LAN	欧洲菘蓝	Dyers Woad	T3477 <i>Isatis tinctoria</i>
OU ZHOU TIAN JIE CAI	欧洲天芥菜*	Heliotrope	T3171 <i>Heliotropium europaeum</i>
OU ZHOU WEI MAO	欧洲卫矛	European Euonymus	T2539 <i>Euonymus europaeus</i>
OU ZHOU XIAN KE LAI	欧洲仙客来	Cyclamen	T1929 <i>Cyclamen europaeum</i>
OU ZHOU XIAO BO	欧洲小檗	European Barberry	T0919 <i>Berberis vulgaris</i>
OU ZHOU YUN SHAN	欧洲云杉	Common Spruce	T4869 <i>Picea abies</i>
OU ZI CAO	欧紫草	Dyer's Alkanet	T0304 <i>Alkanna tinctoria</i>
OU ZI QI	欧紫萁	Flowering Fern	T4553 <i>Osmunda regalis</i>
OU ZHOU YOU CAI	欧洲油菜	Rape	T1009 <i>Brassica napus</i>
PA KE YE XIANG SHU	帕克夜香树	Parqui Cestrum	T1339 <i>Cestrum parqui</i>
PA LI BEI FANG SHI DA GONG LAO	帕里北方十大功劳	Parry Northern Mahonia	T4059 <i>Mahonia borealis</i>
PA SHI BEI KE SHAN	帕氏贝壳杉	Palmerston Pitch Tree*	T0214 <i>Agathis palmerstoni</i>
PAI QIAN CAO	排钱草	Beautiful Phyllodium	T2131 <i>Desmodium pulchellum</i> [Syn. <i>Phyllodium pulchellum</i>]
PAI QIAN CAO GEN	排钱草根	Beautiful Phyllodium Root	T2132 <i>Desmodium pulchellum</i> [Syn. <i>Phyllodium pulchellum</i>]
PAN YUAN CHOU HUANG JING	攀援臭黄荆	Climbing Premna	T5195 <i>Premna subscandens</i>
PAN YUAN YU TENG	攀援鱼藤	Climbing Jewelvine	T2123 <i>Derris scandens</i>

PAN ZHI GOU TENG	攀枝钩藤	Climbing Gambirplant	T6631 <i>Uncaria scandens</i> [Syn. <i>Nauclea pilosa</i> ; <i>Uruparia pilosa</i> ; <i>Uncaria pilosa</i>]
PAN ZHUANG YE XIA ZHU	盘状叶下珠*	Discoïd Leafflower*	T4833 <i>Phyllanthus discoïdes</i>
PANG DA HAI	胖大海		T6139 <i>Sterculia lychnophora</i>
PAO DAN GUO	炮弹果	Calabash-tree	T1791 <i>Crescentia cujete</i>
PAO NANG CAO	泡囊草	Common Physochlaina	T4859 <i>Physochlaina physaloides</i>
PAO PAO SHU	泡泡树	Pawpaw	T0744 <i>Asimina triloba</i>
PAO TONG	泡桐	Fortune Paulownia	T4678 <i>Paulownia fortunei</i>
PAO ZHUANG FAN LI ZHI	泡状番荔枝	Bullate Custardapple*	T0504 <i>Annona bullata</i>
PEI LAN	佩兰	Fortune Eupatorium	T2559 <i>Eupatorium fortunei</i>
PEI LI LU HUI	佩里芦荟*	Perry Aloe*	T0342 <i>Aloe perryi</i>
PEI NI YUAN ZHI	佩尼远志	Paene Milkwort*	T5079 <i>Polygala paena</i>
PEN GUA	喷瓜	Squirting Cucumber	T2313 <i>Ecballium elaterium</i>
PEN JIA SHU	盆架树	Prettyleaf Winchia	T6825 <i>Winchia calophylla</i>
PEN TUO PO TI CAO	盆托坡梯草	<i>Pentopetia androsaernifolia</i>	T4702 <i>Pentopetia androsaernifolia</i>
PENG LAI CAO	蓬莱草	Knottflower Phyla Herb	T3865 <i>Lippia nodiflora</i>
PENG QI JU	虻琪菊	Chinese Wedelia	T6814 <i>Wedelia chinensis</i> [Syn. <i>Solidago chinensis</i> ; <i>Wedelia calendulacea</i>]
PENG TE MAN DE MU	彭特曼得木	Pentland Mandevilla*	T4098 <i>Mandevilla pentlandiana</i>
PENG XIAN XUE DAN	彭县雪胆	Pengxian Hemsleya	T3209 <i>Hemsleya pengxianensis</i>
PENG ZI CAI	蓬子菜	Yellow Bedstraw	T2835 <i>Galium verum</i>
PI HAN CAO	辟汗草	Daghestan Sweetclover	T4172 <i>Melilotus suaveolens</i>
PI HAN CAO GEN	辟汗草根	Daghestan Sweetclover Root	T4173 <i>Melilotus suaveolens</i>
PI JIU HUA	啤酒花	European Hop Female-flower	T3289 <i>Humulus lupulus</i>
PI JIU HUA TU SI ZI	啤酒花菟丝子	Hop-shaped Dodder	T1914 <i>Cuscuta lupuliformis</i>
PI LI LUO FU MU	霹雳萝芙木	Perak Devilpepper	T5441 <i>Rauwolfia perakensis</i>
PI PA	枇杷	Loquat	T2431 <i>Eriobotrya japonica</i>
PI PA HE	枇杷核	Loquat Seed	T2432 <i>Eriobotrya japonica</i>
PI PA YE	枇杷叶	Loquat Leaf	T2433 <i>Eriobotrya japonica</i>
PI QI QIE	皮契茄	Peru False Heath	T2652 <i>Fabiana imbricata</i>
PI SHAO ZI	皮哨子	Chuan dian Soapberry Seed	T5717 <i>Sapindus delavayi</i> [Syn. <i>Pancovia delavayi</i>]
PI XI DI GE SHE SHU	匹西狄割舌树*	Piscidi Cuttongue tree*	T6806 <i>Walsura piscidia</i>
PI ZHEN DU JING SHAN	披针杜茎山	Lanceolate Maesa*	T4030 <i>Maesa lanceolata</i>
PI ZHEN QI SHU	披针漆树*	Lanceolate Sumac*	T5533 <i>Rhus lanceolata</i>
PI ZHEN XING YAO HUA	披针形堇花*	Lanceolate Stringbush*	T6821 <i>Wikstroemia lanceolata</i>
PI ZHEN YE GOU TENG	披针叶钩藤*	Lance-leaved Gambirplant	T6622 <i>Uncaria lancifolia</i>
PI ZHEN YE HUANG ROU NAN	披针叶黄肉楠	Lanceleaf Actinodaphne*	T0166 <i>Actinodaphne lancifolia</i>
PI ZHEN YE NAN WU WEI ZI	披针叶南五味子	Lanceolate Kadsura*	T3617 <i>Kadsura lancilimba</i>
PIAN CHI TANG SONG CAO	偏翅唐松草	Delavay Meadowrue	T6378 <i>Thalictrum delavayi</i>
PIAO FU CAO	飘拂草	Dichotomous Fimbristylis	T2730 <i>Fimbristylis dichotoma</i>
PIE LAN	撇蓝	Kohl-rabi	T1019 <i>Brassica oleracea</i> var. <i>gongylodes</i>
PING	苹	Water-clover	T4121 <i>Marsilea quadrifolia</i>
PING BEI MU	平贝母	Ussuri Fritillary	T2797 <i>Fritillaria ussuriensis</i>
PING CHE QIAN	平车前	Depressed Plantain	T5004 <i>Plantago depressa</i>
PING DI XI FENG QIN	平地西风芹*	Campestral Seseli*	T5928 <i>Seseli campestre</i>
PING E SHU	平莪术	Zedoary Turmeric	T1909 <i>Curcuma zedoaria</i> [Syn. <i>Curcuma aeruginosa</i>]
PING ER XIAO CAO	瓶尔小草	Adder's Tongue	T4506 <i>Ophioglossum vulgatum</i>
PING GUO	苹果	Apple	T4088 <i>Malus pumila</i>
PING GUO HAI TANG	苹果海棠*	Domestic Apple*	T4087 <i>Malus domestica</i>
PING HUA FA LIANG GOU TENG	平滑发亮钩藤*	Smooth Gambirplant	T6621 <i>Uncaria laevigata</i>
PING HUA FENG DOU CAI	平滑蜂斗菜*	Smooth Butterbur*	T4742 <i>Petasites laevigatus</i>

PING HUA GUO JIU JE	平滑果九节*	Leio-fruit Ninenode*	T5276 <i>Psychotria leiocarpa</i>
PING HUA SANG	平滑桑*	Smooth Mulberry*	T4295 <i>Morus laevigata</i>
PING PENG CAO	萍蓬草	Cowlily	T4450 <i>Nuphar pumilum</i>
PING PU YUAN BAI	平铺圆柏	Creeping Juniper	T3589 <i>Juniperus horizontalis</i>
PING QIAN LI GUANG	瓶千里光	Bottle Groundsel*	T5906 <i>Senecio sarracenicus</i>
PING WO DAO HUA	平卧稻花	Prostrate Rice-flower*	T4892 <i>Pimelea prostrata</i>
PING YU FENG WEI JUE	平羽凤尾蕨	Kiushu Brake	T5292 <i>Pteris kiuschiensis</i>
PING YUAN BA DOU	平原巴豆*		T1840 <i>Croton campestris</i>
PING ZHAN JIAO HUI XIANG	平展角茴香*	Procumbent Hypecoum*	T3335 <i>Hypecoum procumbens</i>
PO BU YE	破布叶	Paniculate Microcos	T4217 <i>Microcos paniculata</i> [Syn. <i>Grewia microcos</i>]
PO LUO MEN ZAO JIA	婆罗门皂荚	Goldenshower Senna Fruit	T1232 <i>Cassia fistula</i>
PO LUO ZHOU GOU TENG	婆罗洲钩藤*	Borneo Gambirplant*	T6609 <i>Uncaria borneensis</i>
PO SEN DA JI	泊森大戟*	Poison Euphorbia*	T2610 <i>Euphorbia poisonii</i>
PU DI WU GONG	铺地蜈蚣	Cernuous Clubmoss	T3970 <i>Lycopodium cernuum</i>
PU DUN LI	普敦李	Puddun Plum*	T5237 <i>Prunus puddun</i>
PU ER CHA	普洱茶	Assam Tea	T1153 <i>Camellia sinensis</i> var. <i>assamica</i>
PU ER DI LUO HAN SONG	普尔迪罗汉松	Purdie Podocarpus*	T5053 <i>Podocarpus purdieana</i>
PU FU JIN GU CAO	匍匐筋骨草	Creeping Bugle	T0271 <i>Ajuga reptans</i>
PU FU JING TU ER CAO	匍匐茎兔耳草*	Creeping Lagotis*	T3676 <i>Lagotis stolonifera</i>
PU FU QIANG DAO YAO	匍匐枪刀药	Creeping Hypoestes*	T3375 <i>Hypoestes serpens</i>
PU FU SHI DA GONG LAO	匍匐十大功劳	Creeping Mahonia	T4071 <i>Mahonia repens</i>
PU GE WU TOU	普葛乌头	Pukee Monkshood	T0126 <i>Aconitum pukeese</i>
PU GONG YING	蒲公英	Mongolian Dandelion	T6301 <i>Taraxacum mongolicum</i>
PU HUANG	蒲黄	Longbract Cattail Pollen	T6584 <i>Typha angustata</i>
PU QI BEI MU	蒲圻贝母	Puqi Fritillary*	T2793 <i>Fritillaria puqiensis</i>
PU SUO MU	普梭木		T5272 <i>Psorospermum febrifugum</i>
PU TAO	葡萄	European Grape	T6798 <i>Vitis vinifera</i>
PU TAO TENG YE	葡萄藤叶	European Grape Stem and Leaf	T6799 <i>Vitis vinifera</i>
PU TAO YE MU JIN	葡萄叶木槿	Grapeleaf Hibiscus*	T3249 <i>Hibiscus vitifolius</i>
PU TAO YOU	葡萄柚	Grapefruit	T1503 <i>Citrus paradisi</i>
PU ⁽³⁾ TAO	蒲桃	Roseapple	T6267 <i>Syzygium jambos</i>
PU TAO YOU DA HONG JU ZA	葡萄柚大红橘杂交种		T1505 <i>Citrus paradisi</i> x <i>Citrus tangerina</i>
JIAO ZHONG			
PU TI SHU HUA	菩提树花	Miquel Linden	T6458 <i>Tilia miqueliana</i>
PU TONG BAI JIAN MU	普通白坚木*	Common White Quebracho	T0772 <i>Aspidosperma quebracho-blanco</i>
PU TONG CANG ER	普通苍耳*	Common Cocklebur*	T6838 <i>Xanthium commune</i>
PU TONG LU TI CAO	普通鹿蹄草	Common Pyrola	T5347 <i>Pyrola decorata</i>
PU TONG TUN CAO	普通豚草*	Ragweed	T0396 <i>Ambrosia ambrosioides</i>
PU TONG XUAN GOU ZI	普通悬钩子	Common Raspberry*	T5588 <i>Rubus allegheniensis</i>
PU TONG YUAN ZHI	普通远志	Common Milkwort*	T5089 <i>Polygala vulgaris</i>
PU TONG ZHANG YA CAI	普通獐芽菜*	Common Swertia*	T6239 <i>Swertia swertiopsis</i>
PU YE SHAN YOU ZI	朴叶山柚子	Celtis-leaf Opilia*	T4515 <i>Opilia celtidifolia</i>
QI BAI ZHI	祁白芷	Qibaizhi Angelica*	T0479 <i>Angelica dahurica</i> cv. <i>qibaizhi</i>
QI GU CAO	漆姑草	Pearlwort	T5646 <i>Sagina japonica</i> [Syn. <i>Spergula japonica</i>]
QI GUO JIU LI XIANG	脐果九里香*	Omphalo-fruit Common	T4322 <i>Murraya omphalocarpa</i>
		Jasminorange*	
QI GUO QIAN LI XIANG	脐果千里香*	Omphalo-fruit Jasminorange*	T4326 <i>Murraya paniculata</i> var. <i>omphalocarpa</i>
QI HAN NING HUA JIAO	齐汉宁花椒	Tsihanim Pricklyash*	T6898 <i>Zanthoxylum tsihanimposia</i>
QI LIN CAI	麒麟菜	Muriculate Eucheuma Frond	T2525 <i>Eucheuma muricatum</i>
QI LIN JIE	麒麟竭	Draco Yellowvine*	T1994 <i>Daemonorops draco</i>
QI PAN SHA CAO	畦畔莎草	Asidefield Galingale	T1975 <i>Cyperus haspan</i>
QI SHI HUA	脐石花*	Omphalos Parmelia*	T4657 <i>Parmelia saxatilis</i> var. <i>omphalodes</i>

QI YE HUANG PI	七叶黄皮*	Heptaleaf Wampee*	T1536 <i>Clausena heptaphylla</i>
QI YE PAN GUO JU	槭叶盘果菊	Rattlesnakeroot	T5196 <i>Prenanthes acerifolia</i>
QI YE SHU	七叶树	Chinese Buckeye	T0201 <i>Aesculus chinensis</i>
QI YI PU TAO FENG XIN ZI	奇异葡萄风信子*	Paradoxy Grape-hyacinth*	T4333 <i>Muscari paradoxum</i>
QI ZHOU YI ZHI HAO	祁州一支蒿	Horseweed Fleabane	T1657 <i>Conyza canadensis</i> [Syn. <i>Erigeron canadensis</i>]
QI ZI	漆子	True Lacquer Seed	T5541 <i>Rhus verniciflua</i> [Syn. <i>Toxicodendron verniciflum</i>]
QIAN CAO GEN	茜草根	Indian Madder Root	T5578 <i>Rubia cordifolia</i>
QIAN CAO TENG	茜草藤	Indian Madder Stem	T5579 <i>Rubia cordifolia</i>
QIAN CENG TA	千层塔(蛇足石杉)	Serrate Clubmoss	T3295 <i>Huperzia serrata</i> [Syn. <i>Lycopodium serratum</i>]
QIAN HU	前胡	Common Hogfennel	T0480 <i>Angelica decursiva</i> [Syn. <i>Peucedanum decursivum</i>]
QIAN HUI GOU TENG	浅灰钩藤*	Greyish Gambirplant*	T6611 <i>Uncaria canescens</i>
QIAN HUI MAO GUAN JU	浅灰毛冠菊*	Greyish Nannoglottis*	T4372 <i>Nannoglottis ravida</i>
QIAN JIE CAO	千解草	Herbaceous Pygmaeopremna	T5341 <i>Pygmaeopremna herbacea</i> [Syn. <i>Premna herbacea</i>]
QIAN JIN TENG	千金藤	Japanese Staphania	T6129 <i>Stephania japonica</i>
QIAN JIN ZI	千金子	Caper Euphorbia Seed	T2597 <i>Euphorbia lathyris</i>
QIAN LI GUANG	千里光	Climbing Groundsel	T5907 <i>Senecio scandens</i> [Syn. <i>Senecio chinensis</i>]
QIAN LIE LIN MAO JUE	浅裂鳞毛蕨	Fortunate Wood Fern	T2287 <i>Dryopteris sublaeta</i>
QIAN LING YIN YANG HUO	黔岭淫羊藿	Thin-rhizome Epimedium	T2399 <i>Epimedium leptorrhizum</i>
QIAN MA	荨麻	Hemleaf Nettle	T6651 <i>Urtica cannabina</i>
QIAN MA YE ZE LAN	荨麻叶泽兰	White Snakeroot	T2579 <i>Eupatorium urticaefolium</i>
QIAN NIAN BU LAN XIN	千年不烂心	Bitter Nightshade Fruit	T5998 <i>Solanum dulcamara</i>
QIAN NIU ZI	牵牛子	Lobedleaf Pharbitis Seed	T4779 <i>Pharbitis nil</i>
QIAN QU CAI	千屈菜	Spiked Loosestrife	T4007 <i>Lythrum salicaria</i>
QIAN RI HONG	千日红	Globeamaranth	T3040 <i>Gomphrena globosa</i>
QIAN SHI GEN	芡实根	Gordon Euryale Root	T2632 <i>Euryale ferox</i>
QIAN YU DA QING	欠榆大青	Unfortunate Glorybower	T1559 <i>Clerodendron infortunatum</i>
QIANG DAO YAO	枪刀药	Purple Hypoestes	T3373 <i>Hypoestes purpurea</i> [Syn. <i>Justicia purpurea</i> ; <i>Hypoestes sinica</i>]
QIANG GU FEI YAN CAO	强固飞燕草*	Consolidated Larkspur*	T2068 <i>Delphinium consolida</i>
QIANG HUO	羌活	Incised Notopterygium	T4446 <i>Notopterygium incisum</i>
QIANG WEI GEN	蔷薇根	Japanese Rose Root	T5569 <i>Rosa multiflora</i>
QIANG XIANG	青葙	Feather Cockscorn	T1296 <i>Celosia argentea</i>
QIAO BING BA QIA	鞘柄菝葜	Sheathstipe Greenbrier	T5984 <i>Smilax stans</i> [Syn. <i>Smilax vaginata</i> var. <i>stans</i>]
QIAO CHA	巧茶	Khat	T1266 <i>Catha edulis</i>
QIAO GUAN JU	鞘冠菊	Common Coleostephus	T1618 <i>Coleostephus myconis</i>
QIAO GUI	乔桧	Bhutan Pine	T4910 <i>Pinus excelsa</i>
QIAO HUANG TAN	俏黄檀*	Spruce Rosewood*	T2016 <i>Dalbergia spruceana</i>
QIAO MAI	荞麦	Common Buckwheat	T2658 <i>Fagopyrum esculentum</i>
QIAO MAI JIE	荞麦秸	Common Buckwheat Stem	T2659 <i>Fagopyrum esculentum</i>
QIAO MU CI TONG	乔木刺桐	Himalayan Coralbean	T2459 <i>Erythrina arborescens</i>
QIAO MU HU JIAO	乔木胡椒	Arboreous Pepper*	T4932 <i>Piper arboreum</i>
QIAO MU SHAO YAO	乔木芍药*	Arboreous Peony	T4581 <i>Paeonia arborea</i>
QIAO MU ZHUANG HUANG NIU MU	乔木状黄牛木*	Genonggang	T1783 <i>Cratoxylum arborescens</i>
QIAO MU ZHUANG LAN REN	乔木状榄仁	Arboreous Terminalia*	T6343 <i>Terminalia arborea</i>
QIAO MU ZHUANG YANG MEI	乔木状杨梅*	Arboreous Bayberry*	T4342 <i>Myrica arborea</i>
QIAO MU ZI ZHU	乔木紫珠	Tree Beautyberry	T1116 <i>Callicarpa arborea</i>

QIAO SHI DOU LAN	鞘石豆兰	Vaginate Stonebean-orchis*	T1054 <i>Bulbophyllum vaginatum</i>
QIAO TOU	芥头	Chinese Onion	T0313 <i>Allium chinense</i>
QIE YE	茄叶	Garden Eggplant Leaf	T6006 <i>Solanum melongena</i>
QIE ZI	茄子	Garden Eggplant	T6007 <i>Solanum melongena</i>
QIN HUA	芹花	Javan Waterdropwort Flower	T4481 <i>Oenanthe javanica</i>
QIN JIAO	秦艽	Largeleaf Gentian	T2919 <i>Gentiana macrophylla</i>
QIN LING BAI LA SHU	秦岭白蜡树	Pax Ash	T2774 <i>Fraxinus paxiana</i>
QIN LING CUI QUE HUA	秦岭翠雀花	Girald Larkspur	T2076 <i>Delphinium giraldii</i>
QIN LING DA HUANG	秦岭大黄	Qinling Rhubarb*	T5475 <i>Rheum qinlingense</i>
QIN LING ZHU ZI SHEN	秦岭珠子参	Largeleaf Japanese Ginseng	T4605 <i>Panax japonicus</i> var. <i>major</i>
QIN ZHUANG AO CHUN JIANG	琴状凹唇姜	Lyrate Boesenbergia*	T0970 <i>Boesenbergia pandurata</i>
QING AI	清艾	Graywhite Wormwood*	T0669 <i>Artemisia cana</i>
QING FENG TENG	青风藤	Orientvine	T5964 <i>Sinomenium acutum</i>
QING GUO	青果	Olive	T1165 <i>Canarium album</i>
QING HAO	青蒿	Celery Wormwood	T0662 <i>Artemisia apiacea</i> [Syn. <i>Artemisia carvifolia</i> ; <i>Artemisia caruifolia</i>]
QING JIAO	青椒	Peppertree Pricklyash	T6892 <i>Zanthoxylum schinifolium</i>
QING LIANG BAI HE	清亮百合*	Madonna Lily	T3833 <i>Lilium candidum</i>
QING MEI	青梅	Rassak Vatica*	T6686 <i>Vatica rassak</i>
QING MING HUA	清明花	Easter Heraldtrumpet	T0886 <i>Beaumontia grandiflora</i>
QING MU XIANG	青木香(马兜铃根)	Slender Dutchmanspipe Root	T0627 <i>Aristolochia debilis</i> [Syn. <i>Aristolochia longa</i>]
QING NIANG ZI	青娘子	Mung Bean Blister Beetle	T4008 <i>Lytta caraganae</i>
QING NIU DAN	青牛胆	Arrowshaped Tinospora	T6467 <i>Tinospora sagittata</i>
QING QIAN LIU	青钱柳	Roundwingfruit Cyclocarya	T1936 <i>Cyclocarya paliurus</i>
QING SHE TENG	青蛇藤	Greensnake vine	T4725 <i>Periploca calophylla</i>
QING TENG XIANG	青藤香	Japanese Snailseed Stem	T1590 <i>Cocculus trilobus</i> [Syn. <i>Cocculus sarmentosus</i>]
QING WA	青蛙	Pond Frog	T5407 <i>Rana nigromaculata</i> ; <i>Rana plancyi</i>
QING WA DAN	青蛙胆	Pond Frog Gall	T5408 <i>Rana nigromaculata</i> ; <i>Rana plancyi</i>
QING XIANG MU JIANG ZI	清香木姜子	Fourflower Litsea	T3886 <i>Litsea euosma</i>
QING YANG	青杨	Green Poplar	T5150 <i>Populus cathayana</i>
QING YANG SHEN	青羊参	Auricledleaf Mosquitotrap	T1958 <i>Cynanchum otophyllum</i>
QING YE DAN	青叶胆	Mileen Swertia	T6226 <i>Swertia mileensis</i>
QING ZI QIAN NIU	青紫牵牛	Violet Morningglory*	T3453 <i>Ipomoea violacea</i>
QING ZI SU	青紫苏	Viridian Common Perilla*	T4716 <i>Perilla frutescens</i> f. <i>viridis</i>
QIU FENG MU	秋枫木	Javan Bishopwood	T0945 <i>Bischofia javanica</i> [Syn. <i>Bischofia trifoliata</i>]
QIU FU SHOU CAO	秋福寿草	Annual Adonis*	T0185 <i>Adonis annua</i>
QIU HUA DANG SHEN	球花党参	Subglobose Asiabell	T1601 <i>Codonopsis subglobosa</i>
QIU HUA NIU NAI CAI	球花牛奶菜	Globose Condorvine	T4116 <i>Marsdenia globifera</i>
QIU HUA ZUI YU CAO	球花醉鱼草	Orange-ball-tree	T1047 <i>Buddleja globosa</i>
QIU MU GUA	秋木瓜	Common Floweringquince	T1342 <i>Chaenomeles lagenaria</i> [Syn. <i>Chaenomeles speciosa</i>]
QIU QIE SHU	秋茄树	Kandelia	T3626 <i>Kandelia candel</i>
QIU RUI WU WEI ZI	球蕊五味子	Ballander Magnoliavine	T5801 <i>Schisandra sphaerandra</i>
QIU SHENG BI HUA MU	丘生闭花木		T1543 <i>Cleistanthus collinus</i>
QIU SHI MEI DENG MU	丘氏美登木	Chuchuhuasc Mayten*	T4130 <i>Maytenus chuchuhuasca</i>
QIU SHUI XIAN	秋水仙	Meadow Saffron	T1616 <i>Colchicum autumnale</i>
QIU SHUI XIAN CHANG CHUN TENG	秋水仙常春藤*	Colchicum Ivy*	T3111 <i>Hedera colchica</i>
QIU SUI QIAN JIN BA	球穗千斤拔	Conespike Flemingia	T2738 <i>Flemingia strobilifera</i>
QIU YAO GE CHONG LOU	球药隔重楼	Farges Paris	T4647 <i>Paris fargesii</i>

QIU YIN	蚯蚓	Earthworm	T4796 <i>Pheretima aspergillum</i> ; <i>Allolobophora caliginosa trapezoides</i>
QIU YUAN YE TAI	秋圆叶苔		T3552 <i>Jamesoniella autumnalis</i>
QIU ZHUANG PO BU MU	球状破布木*	Globe Cordia*	T1677 <i>Cordia globosa</i>
QU CHONG BAN JIU JU	驱虫斑鸠菊	Worm-killed Bitterleaf	T6713 <i>Vernonia anthelmintica</i>
QU CHONG CAO	驱虫草		T6074 <i>Spigelia anthelmia</i>
QU CHONG HE HUAN	驱虫合欢*	Musenna Albizia	T0291 <i>Albizzia anthelmintica</i>
QU MAI	瞿麦	Lilac Pink	T2145 <i>Dianthus superbus</i>
QU QU HUA	屈曲花	Rocket Candytuft	T3385 <i>Iberis amara</i>
QU XI DANG GUI	曲膝当归*	Genuflex Angelica*	T0482 <i>Angelica genuflexa</i>
QU YU CAO DI LAO GUAN CAO	区域草地老鹳草		T2945 <i>Geranium pratense</i> ssp. <i>funitimum</i>
QU ZHOU HAI JIN SHA	曲轴海金沙	Flexuose Climbing Fern	T3989 <i>Lygodium flexuosum</i> [Syn. <i>Lygodium pinnatifidum</i> ; <i>Ophioglossum flexuosum</i>]
QUAN CHI QIANG WEI	犬齿蔷薇	Dog Rose	T5561 <i>Rosa canina</i>
QUAN JU GUA YE WU TOU	拳距瓜叶乌头	Circinate Hemsley Monkshood	T0100 <i>Aconitum hemsleyanum</i> var. <i>circinacum</i>
QUAN NENG HUA	全能花	Twoflower Pancratium	T4612 <i>Panocratium biflorum</i>
QUAN SHEN	拳参	Bistort	T5099 <i>Polygonum bistorta</i>
QUAN XIE	全蝎	Scorpion	T1084 <i>Buthus martensi</i>
QUAN YE SU TIE	拳叶苏铁	Crozier Cycas	T1926 <i>Cycas circinalis</i>
QUAN YE YAN HU SUO	全叶延胡索	Creeping Corydalis	T1735 <i>Corydalis repens</i>
QUAN YUAN CHU	全缘栲	Integrifolious Ailanthus*	T0257 <i>Ailanthus integrifolia</i> ssp. <i>calycina</i>
QUAN YUAN GUI MU	全缘桂木	Integerleaf Artocarpus	T0715 <i>Artocarpus integra</i>
QUAN YUAN QIAN LI GUANG	全缘千里光	Entire Groundsel	T5889 <i>Senecio integerrimus</i>
QUAN YUAN YE AO TUO SI TE CAO	全缘叶奥托斯特草*	Integrifolious Otostegia*	T4558 <i>Otostegia integrifolia</i>
QUAN YUAN YE BO LUO MI	全缘叶波罗蜜*	Integrifolious Artocarpus*	T0716 <i>Artocarpus integrifolia</i>
QUAN YUAN YE HUA JIAO	全缘叶花椒	Integrifolious Pricklyash*	T6882 <i>Zanthoxylum integrifoliolum</i>
QUAN YUAN YE MEI ZHOU CHA	全缘叶美洲茶	Deerbrush	T1276 <i>Ceanothus integerrimus</i>
QUAN YUAN YE TE SA JU	全缘叶特萨菊		T6351 <i>Tessaria integrifolia</i>
QUAN YUAN YE XIAO BO	全缘叶小檗	Integrifolious Barberry	T0905 <i>Berberis integerrima</i>
QUE BAI MAI JIAO	雀稗麦角	Paspalum Ergot*	T1540 <i>Claviceps paspali</i>
QUE MEI TENG	雀梅藤	Hedge Sageretia	T5645 <i>Sageretia theezans</i> [Syn. <i>Sageretia thea</i>]
QUE SHE HUANG YANG	雀舌黄杨	Bodnier Box	T1087 <i>Buxus bodinieri</i>
QUN DAI CAI	裙带菜	Undaria	T6640 <i>Undaria pinnatifida</i>
QUN XIN CAI	群心菜	Common Cardaria	T1195 <i>Cardaria draba</i>
RAN LIAO MU	染料木	Common Woadwaxen	T2901 <i>Genista tinctoria</i>
RAN LIAO SI SHI MU	染料斯氏木		T5940 <i>Sickingia tinctoria</i>
RAN MAO QIAO RUI HUA	髯毛鞘蕊花	Forskahl Coleus	T1619 <i>Coleus barbatus</i>
RAN SE JI YAN TENG	染色鸡眼藤	Dyed Morinda	T4285 <i>Morinda tinctoria</i>
RAN SE SANG	染色桑	Tinctorial Mulberry*	T4302 <i>Morus tinctoria</i>
RE BEN MO GU	日本蘑菇	Japanese Mushroom*(Sheep Polypore)	T0288 <i>Albatrellus ovinus</i>
REN DONG TENG	忍冬藤	Japanese Honeysuckle Vine	T3913 <i>Lonicera japonica</i>
REN GONG YONG CHONG CAO	人工蛹虫草	Cultivated Scarlet Caterpillar Fungus*	T1681 <i>Cordyceps militaris</i> cv
REN NIAO	人尿	Human Urine	T3276 <i>Homo sapiens</i>
REN SHEN	人参	Ginseng	T4599 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]
REN SHEN HUA LEI	人参花蕾	Ginseng Buds	T4600 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]
REN SHEN LU	人参芦	Ginseng Reed	T4601 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]
REN SHEN XI YANG SHEN ZA JIAO ZHONG	人参西洋参杂交种		T4603 <i>Panax ginseng</i> x <i>P. quinquefolium</i>

REN SHEN YE	人参叶	Ginseng Leaf	T4602 <i>Panax ginseng</i> [Syn. <i>Panax schinseng</i>]
REN ZHONG BAI	人中白	Human Urine Sediment	T3277 <i>Homo sapiens</i>
RI BEN AN XI XIANG JING PI	日本安息香茎皮*	Japanese Snowbell Stem-bark	T6200 <i>Styrax japonica</i>
RI BEN BAI LA SHU	日本白蜡树	Japanese Ash*	T2771 <i>Fraxinus japonica</i>
RI BEN BAI SI CAO	日本白丝草	Japanese Chionographis*	T1369 <i>Chionographis japonica</i>
RI BEN BAI SONG FENG CAO	日本白松风草	Japanese White Chinaure*	T0965 <i>Boenninghausenia albiflora</i> var. <i>japonica</i>
RI BEN BIAN BAI	日本扁柏	Hinoki False Cypress	T1349 <i>Chamaecyparis obtusa</i>
RI BEN BIAN TAI	日本鞭苔	Japanese Flagelliform Liverwort*	T0883 <i>Bazzania japonica</i>
RI BEN CE ER	日本侧耳		T3684 <i>Lamptreomyces japonicus</i>
RI BEN CHANG PU	日本菖蒲	Japanese Sweetflag*	T0143 <i>Acorus calamus</i> var. <i>angustatus</i>
RI BEN CHOU JIE CAO	日本臭节草*	Japanese Chinaure*	T0966 <i>Boenninghausenia japonica</i>
RI BEN CU FEI	日本粗榧	Japanese Plumyew	T1320 <i>Cephalotaxus harringtonia</i>
RI BEN DANG GUI	日本当归	Japanese Angelica*	T0485 <i>Angelica japonica</i>
RI BEN DONG FENG LUO	日本东风螺*		T0842 <i>Babylonia japonica</i>
RI BEN DU JUAN HUA	日本杜鹃花	Japanese Azalea	T5511 <i>Rhododendron japonicum</i>
RI BEN DUO CI YU TAI	日本多刺羽苔*		T4991 <i>Plagiochila acanthophylla</i> ssp. <i>japonica</i>
RI BEN GUI DENG QING	日本鬼灯擎	Bronzeleaf Rodgersflower	T5556 <i>Rodgersia podophylla</i>
RI BEN HOU PI XIANG	日本厚皮香	Japanese Cleyera	T6350 <i>Ternstroemia japonica</i>
RI BEN HOU PO	日本厚朴	Whiteleaf Japanese Magnolia	T4044 <i>Magnolia obovata</i>
RI BEN HUA BAI	日本花柏	Sawara False Cypress	T1350 <i>Chamaecyparis pisifera</i>
RI BEN HUANG BAI	日本黄柏	Japan Corktree*	T4793 <i>Phellodendron japonicum</i>
RI BEN HUANG LIAN	日本黄连	Japanese Goldthread*	T1667 <i>Coptis japonica</i>
RI BEN JIA MI	日本莢蒾	Japanese Viburnum	T6734 <i>Viburnum awabuki</i>
RI BEN JIN YAO	日本金腰	Japanese Goldsaxifrage	T1404 <i>Chrysosplenium japonicum</i>
RI BEN KU LIAN	日本苦楝	Japanese Chinaberry-tree	T4160 <i>Melia azedarach</i> var. <i>japonica</i>
RI BEN LIAN XIANG SHU	日本连香树*	Japanese Katsura-tree	T1332 <i>Cercidiphyllum japonicum</i>
RI BEN LIN MAO JUE	日本鳞毛蕨	Brown-margin Wood Fern	T2286 <i>Dryopteris sacrosancta</i>
RI BEN LIU SHAN	日本柳杉	Japanese Cedar	T1868 <i>Cryptomeria japonica</i>
RI BEN LONG DAN	日本龙胆*	Japanese Gentian*	T2912 <i>Gentiana japonica</i>
RI BEN LONG YA CAO	日本龙芽草*	Japanese Agrimonia*	T0247 <i>Agrimonia japonica</i>
RI BEN LU TI CAO	日本鹿蹄草	Japanese Pyrola	T5350 <i>Pyrola japonica</i>
RI BEN LUO SHI	日本络石	Japanese Star Jasmine*	T6483 <i>Trachelospermum asiaticum</i>
RI BEN MA SANG	日本马桑	Japanese Coriaria*	T1690 <i>Coriaria japonica</i>
RI BEN MA ZUI MU	日本马醉木	Japanese Pieris	T4890 <i>Pieris japonica</i>
RI BEN MANG CAO	日本莽草	Japanese Anisetree	T3399 <i>Illicium anisatum</i>
RI BEN NAN	日本楠	Japanese Machilus*	T4016 <i>Machilus japonica</i>
RI BEN NAN WU WEI ZI	日本南五味子	Japanese Kadsura	T3616 <i>Kadsura japonica</i>
RI BEN NIU PI XIAO	日本牛皮消	Japanese Swallowwort*	T1956 <i>Cynanchum japonicum</i>
RI BEN NIU XI	日本牛膝	Japanese Achyranthes	T0074 <i>Achyranthes fauriei</i>
RI BEN NV ZHEN	日本女贞	Japanese Privet	T3827 <i>Ligustrum japonicum</i>
RI BEN PING PENG CAO	日本萍蓬草	Japanese Cowlily*	T4448 <i>Nuphar japonicum</i>
RI BEN QI YE SHU	日本七叶树	Japanese Buckeye	T0204 <i>Aesculus turbinata</i>
RI BEN QIAN QU CAI	日本千屈菜	Twoedged Loosestrife	T4006 <i>Lythrum anceps</i>
RI BEN SAN YE SHA SEN	日本三叶沙参	Japanese Trileaf Ladybell*	T0169 <i>Adenophora triphylla</i> var. <i>japonica</i>
RI BEN SHE GEN CAO	日本蛇根草	Japanese Ophiorrhiza	T4510 <i>Ophiorrhiza japonica</i>
RI BEN SHENG MA	日本升麻	Japanese Bugbane*	T1422 <i>Cimicifuga japonica</i>
RI BEN SHU YU	日本薯蕷	Japanese Yam	T2202 <i>Dioscorea japonica</i>
RI BEN SHUANG HU DIE	日本双蝴蝶*	Japanese Dualbutterfly*	T6537 <i>Tripterospermum japonicum</i>
RI BEN SU MU	日本苏木	Japanese Caesalpinia*	T1104 <i>Caesalpinia japonica</i>
RI BEN WEN SHU LAN	日本文殊兰	Japanese Crinum	T1795 <i>Crinum asiaticum</i> var. <i>japonicum</i>
RI BEN WU JIA	日本五加	Japanese Acanthopanax*	T0039 <i>Acanthopanax japonicum</i>
RI BEN WU TOU	日本乌头	Japanese Monkshood*	T0104 <i>Aconitum japonicum</i>
RI BEN XIANG BAI JING PI	日本香柏茎皮	Japanese Arbovriate Stem-bark	T6442 <i>Thuja standishii</i>

RI BEN XIANG RU	日本香薷*	Japanese Elsholtzia*	T2342 <i>Elsholtzia nipponica</i>
RI BEN XIAO BO	日本小檗	Japanese Barberry	T0916 <i>Berberis thunbergii</i>
RI BEN XIAO HE YI	日本小核衣*	Asian lichen	T5342 <i>Pyrenula japonica</i>
RI BEN XIN YI	日本辛夷	Kobus Magnolia	T4040 <i>Magnolia kobus</i>
RI BEN YING HUA	日本櫻花	Tokyo Cherry	T5246 <i>Prunus yedoensis</i>
RI BEN YU LIN SONG	日本鱼鳞松	Yeddo Spruce	T4871 <i>Picea jezoensis</i>
RI BEN YUAN WEI	日本鸾尾	Japanese Iris*	T3462 <i>Iris komonoensis</i>
RI BEN ZHANG YA CAI	日本獐牙菜	Japanese Swertia*	T6223 <i>Swertia japonica</i>
RI BEN ZI ZHU	日本紫珠	Japanese Beautyberry	T1119 <i>Callicarpa japonica</i>
RONG BAI RU GU	绒白乳菇	Fleecy Milk-cap	T3657 <i>Lactarius vellereus</i>
RONG MAO DAI XING CAO	绒毛戴星草	Indian Sphaeranthus	T6071 <i>Sphaeranthus indicus</i>
RONG MAO DAN SHEN	绒毛丹参	Tomentose Sage*	T5696 <i>Salvia tomentosa</i>
RONG MAO HU TONG	茸毛胡桐	Tomentose Calaba	T1135 <i>Calophyllum tomentosum</i>
RONG MAO MI ZI LAN	绒毛米仔兰*	Tomentose Aglaia*	T0246 <i>Aglaia tomentosa</i>
RONG MAO SHAN XIANG	茸毛山香	Tomentose Bushmint*	T3382 <i>Hyptis tomentosa</i>
RONG MAO XIANG KE KE	绒毛香科科	Tomentose Germander	T6370 <i>Teucrium tomentosum</i>
RONG SHU	榕树	Smallfruit Fig	T2721 <i>Ficus microcarpa</i>
ROU CONG RONG	肉苁蓉	Desertliving Cistanche	T1455 <i>Cistanche deserticola</i>
ROU DOU KOU	肉豆蔻	Common Nutmeg	T4351 <i>Myristica fragrans</i>
ROU GUI	肉桂	Cassiabarktree	T1439 <i>Cinnamomum cassia</i> [Syn. <i>Cinnamomum aromaticum</i>]
ROU HONG MA LI JIN	肉红马利筋	Incarnate Milkweed*	T0738 <i>Asclepias incarnata</i>
ROU HUA XUE DAN	肉花雪胆	Fleshy-flower Hemsleya	T3204 <i>Hemsleya carnosiflora</i>
ROU JIN HE HUAN	柔金合欢	Black Wattle	T0027 <i>Acacia mollissima</i>
ROU JING XIANG CHA CAI	柔茎香茶菜	Flexedstem Rabdosia	T3489 <i>Isodon flexicaulis</i>
ROU LEI NIU NAI CAI	柔雷牛奶菜	Roylei Condorvine*	T4119 <i>Marsdenia roylei</i>
ROU MAO DI DAN CAO	菜毛地胆草	Hawaiian Elephantfoot	T2333 <i>Elephantopus mollis</i>
ROU MAO FAN LI ZHI	柔毛番荔枝	Glaucous Custardapple*	T0507 <i>Annona glauca</i>
ROU MAO HUANG QI	柔毛黄芪*	Darkhairly Milkvetch*	T0786 <i>Astragalus atropubescens</i>
ROU MAO QIE	柔毛茄	Pubescent Nightshade	T6010 <i>Solanum pubescens</i>
ROU MAO SHAN LI DOU	柔毛山黧豆	Pilosity Peavine*	T3708 <i>Lathyrus palustris</i> var. <i>pilosus</i>
ROU MAO XIANG RI KUI	柔毛向日葵	Pubescent Sunflower*	T3150 <i>Helianthus mollis</i>
ROU MAO XIAO RU XIANG	柔毛肖乳香	Hairy Peppertree*	T5788 <i>Schinus molle</i>
ROU MAO YIN YANG HUO	柔毛淫羊藿	Pubescence Epimedium	T2401 <i>Epimedium pubescens</i>
ROU SE HUAN YANG SHEN	柔色还阳参	Soft Hawksbeard	T1788 <i>Crepis mollis</i>
RU BAI LONG DAN	乳白龙胆*	Milky Gentian*	T2916 <i>Gentiana lactea</i>
RU DI JIN NIU	入地金牛(两面针)	Shinyleaf Pricklyash	T6884 <i>Zanthoxylum nitidum</i>
RU DI WU GONG	入地蜈蚣	Ceylan Helminthostachys	T3190 <i>Helminthostachys zeylanica</i>
RU DU XIANG	藤笃香	Turpentine Tree	T4981 <i>Pistacia terebinthus</i>
RU JU	乳桔	Kinokuni Citrus	T1489 <i>Citrus kinokuni</i>
RU LAN	汝兰	Hernandialeaf Stephania	T6128 <i>Stephania hernandifolia</i>
RU NI WENG DAO MI ZHU YU	儒尼翁岛蜜茱萸	Reunion-Island Melicope*	T4164 <i>Melicope coodeana</i>
RU XIANG	乳香	Olibanum	T0994 <i>Boswellia carterii</i>
RU XIANG BAI	乳香柏	Mastic Juniper*	T3601 <i>Juniperus thurifera</i>
RU YUAN DU JUAN	乳源杜鹃	Ruyuan Rhododendron	T5512 <i>Rhododendron lingii</i>
RUAN GU HAI TOU HONG	软骨海头红		T5023 <i>Plocamium cartilagineum</i>
RUAN GU ZAO	软骨藻		T1382 <i>Chondria armata</i> [Syn. <i>Lophura armata</i>]
RUAN MAO DU HUO	软毛独活	Soft-hair Cowparsnip	T3214 <i>Heracleum lanatum</i>
RUAN RUO DU JING SHAN	软弱杜茎山	Slender Maesa	T4032 <i>Maesa tenera</i>
RUAN SHI	软柿	Soft Persimmon*	T2225 <i>Diospyros mollis</i>
RUAN TIAO QI QIANG WEI	软条七蔷薇	Henry's Rose	T5566 <i>Rosa henryi</i>
RUAN YIN BEI TENG	软银背藤	Soft Argyreia*	T0613 <i>Argyreia mollis</i>
RUAN ZHI HUANG CHAN	软枝黄蝉	Common Allemanda	T0307 <i>Allemanda cathartica</i>

RUI DE QIAN LI GUANG	瑞德千里光*	Riddell Groundsel	T5903 <i>Senecio riddellii</i>
RUI DIAN GAN LAN	瑞典甘蓝*	Swedish Turnip	T1022 <i>Brassica rutabaga</i>
RUI JIAO JIAN MU	锐角檫木*	Acuteangulus Pencilwood*	T2306 <i>Dysoxylum acutangulum</i>
RUI SHI QIAN NIU	瑞氏牵牛	Regnell Morningglory*	T3451 <i>Ipomoea regnellii</i>
RUI SHI SHI SONG	瑞士石松	Arolla Pine	T4909 <i>Pinus cembra</i>
RUI XIANG GEN	瑞香根	Winter Daphne Root	T2027 <i>Daphne odora</i>
RUI XIANG HUA	瑞香花	Winter Daphne Flower	T2028 <i>Daphne odora</i>
RUI ZI SU	锐紫苏	Argute Perilla*	T4713 <i>Perilla arguta</i>
SA BA LU HUI	萨芭芦荟	Saba Aloe	T0344 <i>Aloe sabaea</i>
SA HA LIN YUN SHAN	萨哈林云杉	Saghalin Spruce	T4870 <i>Picea glehnii</i>
SA JIN TE BAI MU	萨金特柏木	Sargent Cypress	T1898 <i>Cupressus sargentii</i>
SA LI LA WO JU	萨利拉莴苣	Sariola Lettuce*	T3661 <i>Lactuca sariola</i>
SA SHI MAO DI HUANG	萨氏毛地黄*	Thaps Foxglove*	T2180 <i>Digitalis thapsii</i>
SAI ER WEI YA SHI CAO	塞尔维亚薯草	Serbian Yarrow	T0059 <i>Achillea alexandri-regis</i>
SAI LA LI ANG SHUI XIAN	塞拉利昂水仙		T4375 <i>Narcissus leonensis</i>
SAI LANG DANG	赛茛苢	Common Anisodus	T0501 <i>Anisodus luridus</i>
SAI LE LUO LE	塞勒罗勒	Sello Basil*	T4475 <i>Ocimum selloi</i>
SAI NEI JIA ER CI TONG	塞内加尔刺桐*	Senegal Coralbean*	T2474 <i>Erythrina senegalensis</i>
<i>Salvia</i> spp.	鼠尾草属		T5694 <i>Salvia</i> spp.
SAN BAI CAO	三白草	Chinese Lizardtail	T5750 <i>Saururus chinensis</i>
SAN CHA FENG WEI JUE	三叉凤尾蕨	Wallich's Brake	T5299 <i>Pteris wallichiana</i>
SAN CHA KU	三叉苦	Thin Evodia	T2641 <i>Evodia leptota</i> [Syn. <i>Ilex leptota</i>]
SAN CHI HAO	三齿蒿	Big Sagebrush	T0702 <i>Artemisia tridentata</i>
SAN CHI LA RUI A	三齿拉瑞阿	Creosote-bush	T3695 <i>Larrea tridentata</i>
SAN CHU SHAN XIANG YUAN	三出山香圆*	Threeleaf Turpinia	T6568 <i>Turpinia ternata</i>
SAN CI ZAO JIA	三刺皂荚	Honeylocust	T2982 <i>Gleditsia triacanthos</i>
SAN FANG HUA XU HONG YUE	伞房花序红月桂*	Corymb Rose-bay*	T6272 <i>Tabernaemontana corymbosa</i>
GUI			
SAN FEN DAN	三分丹	Brackfollicle	T6578 <i>Tylophora atrofolliculata</i>
SAN FEN SAN	三分三	Acutangular Scopolia	T5819 <i>Scopolia acutangula</i> [Syn. <i>Anisodus acutangulus</i>]
SAN HUA BA DOU	散花巴豆	Sparseflower Croton*	T1856 <i>Croton sparsiflorus</i>
SAN HUA LONG DAN	三花龙胆	Threeflower Gentian	T2938 <i>Gentiana triflora</i>
SAN HUA MI HUA SHU	伞花密花树*	Umbellate Rapanea*	T5418 <i>Rapanea umbellata</i>
SAN JIAN SHAN	三尖杉	Fortune Plumyew	T1318 <i>Cephalotaxus fortunei</i>
SAN JIAO FEN YE JUE	三角粉叶蕨*	Goldback Fern	T4988 <i>Pityrogramma triangularis</i>
SAN JIAO MA DOU LING	三角马兜铃*	Triangular Dutchmanspipe*	T0640 <i>Aristolochia triangularis</i>
SAN JIAO YE HUANG LIAN	三角叶黄连	Deltoid Goldthread	T1664 <i>Coptis deltoidea</i>
SAN JIAO YE SHU YU	三角叶薯蓣	Deltoid Yam	T2195 <i>Dioscorea deltoidea</i>
SAN JU AI CUI QUE	三距矮翠雀	Spring Larkspur	T2088 <i>Delphinium tricorne</i>
SAN LENG	三棱	Common Burreed	T6062 <i>Sparganium stoloniferum</i>
SAN LENG YE JIN SI TAO	三棱叶金丝桃*	Triangular-leaf St. John's wort*	T3366 <i>Hypericum triquetrifolium</i>
SAN LIE HAO	三裂蒿*	Tripartite Wormwood*	T0704 <i>Artemisia tripartita</i>
SAN LIE QIE	三裂茄	Tripartite Nightshade*	T6016 <i>Solanum tripartitum</i>
SAN LIE XUE TONG	三裂血桐*	Trilobate Macaranga*	T4014 <i>Macaranga triloba</i>
SAN LIE YE GE	三裂叶葛	Trilobedleaf Kudzuvine	T5318 <i>Pueraria phaseoloides</i>
SAN MIAN DAO	三面刀	Small Bugbane	T1417 <i>Cimicifuga acerina</i>
SAN QI	三七	Sanchi	T4608 <i>Panax pseudo-ginseng</i> var. <i>notoginseng</i> [Syn. <i>Panax notoginseng</i>]
SAN QI CAO	三七草	Gynura	T3088 <i>Gynura segetum</i> [Syn. <i>Gynura japonica</i>]
SAN QI HUA LEI	三七花蕾	Sanchi Buds	T4609 <i>Panax pseudo-ginseng</i> var. <i>notoginseng</i> [Syn. <i>Panax notoginseng</i>]
SAN QIU BO SI SHI SUAN	三球波斯石蒜	Trisphare Ungernia*	T6642 <i>Ungernia trisphaera</i>

SAN RUI LIAN GUI	三蕊莲柱	Threestamen Dehaasia*	T2059 <i>Dehaasia triandra</i>
SAN SE BAI ZHUANG GU	三色白桩菇	Tricolor Leucopaxillus*	T3783 <i>Leucopaxillus tricolor</i>
SAN SE JIN	三色堇	Garden Pansy	T6766 <i>Viola tricolor</i>
SAN SE QIAN NIU	三色牵牛	Trichroism Morningglory*	T3452 <i>Ipomoea tricolor</i>
SAN SHI HUANG MA	三室黄麻*	Three-room Roundpod Jute*	T1676 <i>Corchorus trilocularis</i>
SAN TAI HONG HUA	三台红花	Serrate Glorybower	T1561 <i>Clerodendron serratum</i>
SAN TAI HUA	三台花	Amplexifolious Glorybower	T1569 <i>Clerodendrum serratum</i> var. <i>amplexifolium</i>
SAN TIAO JIN	三条筋	Tibet Cinnamon Bark	T1444 <i>Cinnamomum tamala</i>
SAN WEI ZHI FAN YING TAO	三维治番樱桃*	Sandwich Eugenia*	T2534 <i>Eugenia sandwicensis</i>
SAN XIAO CAO	三消草	White Clover	T6522 <i>Trifolium repens</i>
SAN XIAO YE CUI QUE HUA	三小叶翠雀花	Threefoliolate Larkspur	T2089 <i>Delphinium trifoliolatum</i>
SAN XIAU YE SHAN DOU GEN	三小叶山豆根	Trifoliolate Euchresta	T2527 <i>Euchresta japonica</i>
SAN XING HU JIAO	伞形胡椒*	Umbellate Pepper*	T4973 <i>Piper umbellatum</i>
SAN XING HUA XU YIN JIA	伞形花序因加*	Inga*	T3424 <i>Inga umbellifera</i>
SAN XING OU SHI NAN	伞形欧石南	Umbels Heath	T2418 <i>Erica umbellata</i>
SAN XING QU QU HUA	伞形屈曲花	Globe Candytuft	T3386 <i>Iberis umbellata</i>
SAN XING XIU QIU	伞形绣球	Umbellate Hydrangea	T3308 <i>Hydrangea umbellata</i>
SAN YE DIAO ZHANG	三叶钓樟	Threeleaf Spicebush*	T3855 <i>Lindera triloba</i>
SAN YE FANG FENG	三叶防风	Bambooleaf Seseli	T5934 <i>Seseli meirei</i>
SAN YE HUANG LIAN	三叶黄连	Three-leaf Goldthread	T1671 <i>Coptis trifolia</i>
SAN YE MA BIAN CAO	三叶马鞭草	Trifoliolate Verbena*	T6711 <i>Verbena triphylla</i> [Syn. <i>Lippia citriodora</i>]
SAN YE MAI MA QIAN	三叶脉马钱*	Trinervure Poisonnut*	T6189 <i>Strychnos trinervis</i>
SAN YE MI ZHU YU	三叶蜜茱萸	Threeleaf Melicope	T4169 <i>Melicope triphylla</i>
SAN YE MU	三叶木	Trileaf Wood*	T6536 <i>Triphyophyllum peltatum</i>
SAN YE MU TONG	三叶木通	Threeleaf Akebia	T0277 <i>Akebia trifoliata</i>
SAN YE MU TONG GEN	三叶木通根	Threeleaf Akebia Root	T0278 <i>Akebia trifoliata</i>
SAN YE SHU WEI CAO	三叶鼠尾草	Threeleaf Sage	T5697 <i>Salvia trijuga</i>
SAN YE TENG JU	三叶藤桔	India Luvunga	T3946 <i>Luvunga scandens</i>
SAN YING JIAN GUA LOU	三硬尖栝楼	Tri-hard-tip Snakegourd*	T6514 <i>Trichosanthes tricuspidata</i>
SAN ZHONG JU ZA JIAO	三种栝楼杂交种		T1519 [<i>Citrus unshiu</i> x <i>Citrus sinensis</i>] x <i>Citrus iyo</i>
ZHONG [xx			
SAN ZUAN FENG	三钻风	Japanese Spicebush	T3853 <i>Lindera obtusiloba</i>
SANG BAI PI	桑白皮	White Mulberry Root-bast	T4287 <i>Morus alba</i>
SANG CHENG	桑橙	Osage Orange	T4022 <i>Maclura pomifera</i>
SANG DAO BU SHI MU	桑岛布氏木		T1002 <i>Brackenridgea zanguebarica</i>
SANG HUANG	桑黄	<i>Phellinus igniarius</i>	T4787 <i>Phellinus igniarius</i>
SANG JI SHENG	桑寄生	Parasite Scurrella	T3925 <i>Loranthus parasiticus</i> [Syn. <i>Loranthus chinensis</i> ; <i>Taxillus chinensis</i>]
SANG SHI	桑实	White Mulberry Fruit	T4289 <i>Morus alba</i>
SANG YE	桑叶	White Mulberry Leaf	T4289 <i>Morus alba</i>
SANG ZHI	桑枝	White Mulberry Branch	T4290 <i>Morus alba</i>
SE BO GE XIU QIU	瑟博格绣球土常山*	Thunberg Hydrangea*	T3305 <i>Hydrangea macrophylla</i> var. <i>thunbergii</i>
SE LUN YANG JIAO AO	瑟伦羊角拗*	Thollon Strophanthus*	T6162 <i>Strophanthus thollonii</i>
SE ZE YUN SHI	色泽云实*	Tinctorial Caesalpinia*	T1109 <i>Caesalpinia tinctoria</i>
SEN LIN BO HE	森林薄荷	Forest Mint	T4192 <i>Mentha sylvestris</i>
SHA DI YUAN ZHI	沙地远志*	Sandland Milkwort*	T5083 <i>Polygala sabulosa</i>
SHA DONG QING	沙冬青	Mongolian Ammopiptanthus	T0414 <i>Ammopiptanthus mongolicus</i> [Syn. <i>Piptanthus mongolicus</i>]
SHA HE SHU	沙盒树	Sandbox-tree	T3296 <i>Hura crepitans</i>
SHA LI YE	沙梨叶	Sand Pear Leaf	T5366 <i>Pyrus pyrifolia</i>
SHA MO QIANG WEI	沙漠蔷薇	Desert Rose	T0168 <i>Adenium obesum</i>
SHA QIAN HU	沙前胡	Bunge Giantfennel	T2697 <i>Ferula borealis</i>

SHA REN	砂仁(阳春砂)	Villous Amomum	T0419 <i>Amomum villosum</i>
SHA SHENG HUAI	砂生槐	Sandliving Sophora	T6039 <i>Sophora moorcroftiana</i>
SHA SHENG LA JU	沙生蜡菊	Yellow Everlasting	T3156 <i>Helichrysum arenarium</i>
SHA SHENG QIAN LI GUANG	沙生千里光*	Desertliving Groundsel*	T5886 <i>Senecio eremophilus</i>
SHA SHENG SHUI GUI JIAO	砂生水鬼蕉*	Arenaceous Hymenocallis*	T3319 <i>Hymenocallis arenicola</i>
SHA TANG MU	沙塘木	Pedunculate Acronychia	T0151 <i>Acronychia pedunculata</i>
SHA ZAO	沙枣	Russianolive	T2326 <i>Elaeagnus angustifolia</i>
SHA ZAO SHU PI	沙枣树皮	Russianolive Bark	T2327 <i>Elaeagnus angustifolia</i>
SHA ZUAN TAI CAO	砂钻苔草	Sieve Sedge	T1202 <i>Carex kobomugi</i>
SHAN BI XIE	山萆薢	Mountain Yam	T2212 <i>Dioscorea tokoro</i>
SHAN BIAN DOU ZI	山扁豆子	Sensitiveplant-like Senna	T1238 <i>Cassia mimosoides</i>
SHAN CHA	山茶	Japanese Camellia	T1145 <i>Camellia japonica</i>
SHAN CI BAI	山刺柏	Taiwan Juniper	T3600 <i>Juniperus taiwaniana</i>
SHAN CI GU	山慈菇	Arrowhead-like Wildginger	T0730 <i>Asarum sagittarioides</i>
SHAN DI CI TONG	山地刺桐	Mountain Immortelle	T2471 <i>Erythrina poeppigiana</i>
SHAN DI DUI XIN JU	山地堆心菊*	Mountain Sneezeweed*	T3135 <i>Helenium autumnale</i> var. <i>montanum</i>
SHAN DI LUO HAN SONG	山地罗汉松*	Mountain Podocarpus*	T5046 <i>Podocarpus montanus</i>
SHAN DI WU TOU	山地乌头	Country Monkshood	T0115 <i>Aconitum monticola</i>
SHAN DI XIANG CHA CAI	山地香茶菜	Montane Rabdosia	T3516 <i>Isodon oresbia</i>
SHAN DI XIANG WAN DOU	山地香豌豆	Bitter Vetch	T3705 <i>Lathyrus montanus</i>
SHAN DI YAO HUA	山地尧花*	Country Stringbush*	T6822 <i>Wikstroemia monticola</i>
SHAN DONG ZHONG ZU JUE	山东肿足蕨	Shandong Hypodematium	T3372 <i>Hypodematium sinense</i>
SHAN DOU GEN	山豆根	Tonkin Sophora Root	T6043 <i>Sophora subprostrata</i> [Syn. <i>Sophora tonkinensis</i>]
SHAN FAN GEN	山矾根	Caudate Sweetleaf Root	T6250 <i>Symplocos caudata</i>
SHAN FAN LI ZHI	山番荔枝	Montana Custardapple*	T0508 <i>Annona montana</i>
SHAN FAN YE	山矾叶	Caudate Sweetleaf Leaf	T6251 <i>Symplocos caudata</i>
SHAN FENG GUO	山风果	Mountainous Garcinia	T2858 <i>Garcinia hombroniana</i>
SHAN GAN CAO	山甘草	Buddha's Lamp	T4335 <i>Mussaenda pubescens</i>
SHAN GAN RUI XIANG	陕甘瑞香	Tangut Daphne	T2031 <i>Daphne tangutica</i>
SHAN GANG TUO WU	山冈橐吾	Leopard Plant	T3801 <i>Ligularia clivorum</i>
SHAN HE YE	山荷叶	Japanese Umbrellaleaf	T2231 <i>Diphylleia grayi</i>
SHAN HU GEN HAI TOU HONG	珊瑚根海头红*		T5024 <i>Plocamium corallorrhiza</i>
SHAN HU JIAO	山胡椒	Greyblue Spicebush	T3850 <i>Lindera glauca</i>
SHAN HU JIAO YE	山胡椒叶	Greyblue Spicebush Leaf	T3851 <i>Lindera glauca</i>
SHAN HU LAN	珊瑚兰	Faber Galeola	T2826 <i>Galeola faberi</i>
SHAN HUANG PI	山黄皮	Hollowed Wampee	T1535 <i>Clausena excavata</i>
SHAN JIN CHE	山金车	Mountain Tobacco	T0651 <i>Arnica montana</i>
SHAN JIU	山韭	Aging Leek	T0320 <i>Allium senescens</i>
SHAN JU	山药	Hance Pepper	T4948 <i>Piper hancei</i>
SHAN KU GUA	山苦瓜	Mountain Balsampear	T4266 <i>Momordica dioica</i>
SHAN KU MAI	山苦荚	China Ixeris	T3547 <i>Ixeris chinensis</i>
SHAN LI HONG	山里红	Red Fruit	T1778 <i>Crataegus pinnatifida</i> var. <i>major</i>
SHAN LING MA HUANG	山岭麻黄	Gerard Ephedra	T2368 <i>Ephedra gerardiana</i>
SHAN MA HUANG	山蚂蝗	Acutifoliate Podocarpium	T2133 <i>Desmodium racemosum</i> [Syn. <i>Podocarpium podocarpum</i> var. <i>oxyphyllum</i>]
SHAN MAI DONG	山麦冬		T3874 <i>Liriope spicata</i>
SHAN MAO ER	山猫儿	Swordleaf Dianella	T2139 <i>Dianella ensifolia</i>
SHAN MO LI YUN XIANG	山茉莉芸香	Mountjasmine Rue*	T5629 <i>Ruta oreojasme</i>
SHAN NAI	山柰	Galanga Resurrectionlily	T3620 <i>Kaempferia galanga</i>
SHAN PU TAO	山葡萄	Amur Grape	T6794 <i>Vitis amurensis</i>
SHAN QIAN HU	山前胡*	Mountain Parsley	T4765 <i>Peucedanum oreoselinum</i>
SHAN QIU JU PAN MU	山丘巨盘木*	Hill Flindersia*	T2739 <i>Flindersia collina</i>

SHAN REN YE	山稔叶	Downy Rosemyrtle Leaf	T5528 <i>Rhodomyrtus tomentosa</i>
SHAN SHAN JIANG	扇山姜	Flabellate Galangal*	T0355 <i>Alpinia flabellata</i>
SHAN SHI LIU	山石榴	Malabar Randia; Sping Randia	T5411 <i>Randia spinosa</i>
SHAN TAO JING BAI PI	山桃茎白皮	David Peach Bast	T5220 <i>Prunus davidiana</i>
SHAN TAO ZHI	山桃枝	David Peach Juvenile Branch	T5221 <i>Prunus davidiana</i>
SHAN TENG	鱗藤	Common Anodendron	T0514 <i>Anodendron affine</i>
SHAN TONG ZI	山桐子	Manyfruit Idesia	T3387 <i>Idesia polycarpa</i>
SHAN WO JU	山莴苣	Indian Lettuce	T3659 <i>Lactuca indica</i>
SHAN XI WO ER QI	陕西窝儿七	American Umbrellaleaf	T2230 <i>Diphylleia cymosa</i>
SHAN XIANG KE KE	山香科科	Montane Germander*	T6363 <i>Teucrium montanum</i>
SHAN XIAO JU	山小橘	Citrusleaf Glycosmis	T3006 <i>Glycosmis citrifolia</i>
SHAN XING KUO BAO JU	扇形阔苞菊	Sector Pluchea	T0845 <i>Baccharis flabellata</i>
SHAN XING REN	山杏仁	Ansu Apricot Seed	T5219 <i>Prunus armeniaca</i> var. <i>ansu</i>
SHAN YAN HU SUO	山延胡索	Bird-in-a-bush	T1708 <i>Corydalis bulbosa</i> [Syn. <i>Corydalis solida</i>]
SHAN YANG	山杨	Wild poplar	T5151 <i>Populus davidiana</i>
SHAN YANG DOU	山羊豆	Common Goatsrue	T2824 <i>Galega officinalis</i>
SHAN YANG DOU YE KU MA DOU	山羊豆叶苦马豆	Darling Pea	T6208 <i>Swainsonia galegifolia</i>
SHAN YANG HUANG QI	山羊黄芪*		T0790 <i>Astragalus caprinus</i>
SHAN YANG WU TOU	山阳乌头	Shanyang Monkshood*	T0128 <i>Aconitum sanyoense</i>
SHAN YAO	山药	Common Yam	T2190 <i>Dioscorea batatas</i> [Syn. <i>Dioscorea opposita</i>]
SHAN YE WAN DOU	山野豌豆	Broadleaf Vetch	T6742 <i>Vicia amoena</i>
SHAN YIN CHAI HU	山银柴胡	Pacific Gypsophila	T3091 <i>Gypsophila pacifica</i>
SHAN YING TAO	山樱桃	Downy Cherry	T5244 <i>Prunus tomentosa</i>
SHAN YOU MA	山油麻	Diels Trema	T6494 <i>Trema dielsiana</i>
SHAN YU	山榆	Wych Elm	T6595 <i>Ulmus glabra</i>
SHAN ZHA	山楂	Chinese Hawthorn	T1775 <i>Crataegus pinnatifida</i>
SHAN ZHA HUA	山楂花	Chinese Hawthorn Flower	T1776 <i>Crataegus pinnatifida</i>
SHAN ZHA YE	山楂叶	Chinese Hawthorn Leaf	T1777 <i>Crataegus pinnatifida</i>
SHAN ZHI MA	山芝麻	Narrowleaf Screwtree	T3163 <i>Helicteres angustifolia</i>
SHAN ZHU YU	山茱萸	Asiatic Cornelian Cherry	T1698 <i>Cornus officinalis</i> [Syn. <i>Macrocarpium officinale</i>]
SHAN ZHU ZI	山竹子	Manyflower Garcinia	T2867 <i>Garcinia multiflora</i>
SHAN ZHUANG AO DING ZAO	栅状凹顶藻		T3723 <i>Laurencia palisada</i>
SHAN ZUO JIANG CAO	山酢浆草	Wood-sorrel	T4562 <i>Oxalis acetosella</i>
SHANG JU TIAN MEN DONG	上举天门冬*	Ascendent Asparagus*	T0745 <i>Asparagus adscendens</i>
SHANG LU	商陆	Indian Pokeweed	T4864 <i>Phytolacca esculenta</i> [Syn. <i>Phytolacca acinosa</i>]
SHANG ZUO JIAN YE GUANG E TAI	上佐尖叶光萼苔*		T5168 <i>Porella acutifolia</i> ssp. <i>tosana</i>
SHANG ZUO ZHOU JIN YAO	上佐州金腰*	Tosa Goldsaxifrage*	T1408 <i>Chrysosplenium tosaense</i>
SHANG ZUO ZHOU ZHANG YA CAI	上佐州獐芽菜*	Tosa Swertia*	T6240 <i>Swertia tosaensis</i>
SHAO BIAN HUA BAI LAI SHI JU	少边花白菜氏菊*	Fewradiate Bailai's Chrysanthemum*	T0855 <i>Baileya pauciradiata</i>
SHAO CHI XIAO BO	少齿小檗	Potanin Barberry	T0913 <i>Berberis potaninii</i>
SHAO FU E QIAN LI GUANG	少副萼千里光	Fewcalycle Groundsel*	T5895 <i>Senecio paucicazuculatus</i>
SHAO HUA RUI MU	少花蕊木	Fewflower Kopsia*	T3644 <i>Kopsia pauciflora</i>
SHAO HUA XI PA MU	少花西帕木	Limoncillo (in Costa Rica)	T5965 <i>Siparuna pauciflora</i>
SHAO LAN	杓兰	European Ladyslipper	T1983 <i>Cypripedium calceolus</i>
SHE BAI ZI	蛇百子	Wild Spikenard	T3381 <i>Hyptis suaveolens</i>

SHE BIAN JU	蛇鞭菊	Gay-feather	T3793 <i>Liatris spicata</i>
SHE CHUANG ZI	蛇床子	Common Cnidium	T1582 <i>Cnidium monnieri</i>
SHE GAN	射干	Blackberrylily	T0892 <i>Belamcanda chinensis</i>
SHE GEN CAO	蛇根草	Common Ophiorrhiza	T4513 <i>Ophiorrhiza mungos</i>
SHE GUO HUANG JIN	蛇果黄堇	Snakefruit Corydalis	T1730 <i>Corydalis ophiocarpa</i>
SHE HAN WEI LING CAI	蛇含委陵菜	Klein Cinquefoil	T5184 <i>Potentilla kleiniana</i>
SHE MEI	蛇莓	Indian Mockstrawberry	T2290 <i>Duchesnea indica</i>
SHE PAO JIN	蛇泡筋	Snakebubble Raspberry	T5591 <i>Rubus cochinchinensis</i>
SHE PU TAO	蛇葡萄	Ampelopsis	T0423 <i>Ampelopsis brevipedunculata</i>
SHE TAI	蛇苔	Conicum Conocephalus*	T1644 <i>Conocephalum conicum</i>
SHE TENG	蛇藤	Asian Colubrina	T1627 <i>Colubrina asiatica</i>
SHE XIANG	麝香	Abelmusk	T4303 <i>Moschus moschiferus; Moschus berezovskii; Moschus sifanicus</i>
SHE XIANG BAI HE	麝香百合	Longflower Lily	T3835 <i>Lilium longiflorum</i>
SHE XIANG CAO	麝香草	Thyme	T6454 <i>Thymus vulgaris</i>
SHE XIANG MANG ZI	麝香芒籽		T0817 <i>Atherosperma moschatum</i>
SHE XIANG SHI CAO	麝香薯草	Musky Yarrow	T0066 <i>Achillea moschata</i>
SHE XIANG SHI ZHU	麝香石竹	Carnation	T2142 <i>Dianthus caryophyllus</i>
SHE XIANG XUAN	麝香萱	Thunberg's Daylily	T3198 <i>Hemerocallis thunbergii</i>
SHE XING LIN SHENG JIAO GU CUI	舌形林生脚骨脆*	Lingual Forest-in Casearia*	T1225 <i>Casearia sylvestris</i> var. <i>lingua</i>
SHEN CHANG CHUAN XIN LIAN	伸长穿心莲*	Elongate Andrographis*	T0454 <i>Andrographis elongata</i>
SHEN HAO	伸蒿*	Porrect Wormwood*	T0688 <i>Artemisia porrecta</i>
SHEN HONG HONG JING TIAN	深红红景天	Darkred Rhodiola	T5493 <i>Rhodiola coccinea</i>
SHEN HUANG DOU	神黄豆	Jointwood Senna	T1239 <i>Cassia nodosa</i>
SHEN HUANG ZI JIN	深黄紫堇*	Dark-yellow Corydalis	T1723 <i>Corydalis lutea</i>
SHEN JIN CAO	伸筋草	Common Japanese Clubmoss	T3973 <i>Lycopodium japonicum</i> [Syn. <i>Lycopodium clavatum</i>]
SHEN LIE CUI QUE HUA	深裂翠雀花	Deeplobed Larkspur*	T2073 <i>Delphinium dissectum</i>
SHEN LIE YE JIAO HAO	深裂叶角蒿*	Deep-lobed-leaf Incarvillea*	T3419 <i>Incarvillea dissectifoliola</i>
SHEN LIE YU HUANG CAO	深裂鱼黄草*	Deeplobed Merremia*	T4197 <i>Merremia dissecta</i>
SHEN LU SHAN LONG YAN	深绿山龙眼	Nilgiris Helicia	T3162 <i>Helicia nilagirica</i>
SHEN SHENG XUAN GOU ZI	神圣悬钩子*	Sanctity Blackberry*	T5597 <i>Rubus sanctus</i>
SHEN XIANG CAO	神香草	Medicinal Hyssop	T3384 <i>Hyssopus officinalis</i>
SHEN XIANG CAO YE ZE LAN	神香草叶泽兰	Hyssop-leaved Boneset	T2562 <i>Eupatorium hyssopifolium</i>
SHEN XING XIANG CHA CAI	肾形香茶菜	Reniform Rabdosia*	T3502 <i>Isodon latifolia</i> var. <i>reniformis</i>
SHEN YE TIAN ZHU KUI	肾叶天竺葵	Reniform Pelargonium*	T4692 <i>Pelargonium reniforme</i>
SHENG DI HONG JING TIAN	圣地红景天	Integripetal Rhodiola	T5499 <i>Rhodiola sacra</i>
SHENG GU YOU	省沽油	Bumalda Bladdernut	T6097 <i>Staphylea bumalda</i>
SHENG HONG JI	胜红蓟	Tropic Ageratum	T0229 <i>Ageratum conyzoides</i>
SHENG JIANG	生姜	Fresh Common Ginger	T6910 <i>Zingiber officinale</i>
SHENG MA	升麻	Bugbane	T1420 <i>Cimicifuga foetida</i>
SHENG MU	升木		T3884 <i>Lithraea caustica</i>
SHENG QI	生漆	True Lacquer	T5542 <i>Rhus verniciflua</i> [Syn. <i>Toxicodendron verniciflum</i>]
SHENG TENG	生藤	Common Stelmatocrypton	T6106 <i>Stelmatocrypton khasianum</i>
SHENG ZAO	绳藻		T1385 <i>Chorda filum</i>
SHI CAN XIANG KE KE	石蚕香科科	Chamaedrys Germander	T6360 <i>Teucrium chamaedrys</i>
SHI CHANG PU	石菖蒲	Grassleaved Sweetflag	T0146 <i>Acorus tatarinowii</i>
SHI CHE JU	矢车菊	Cornflower	T1305 <i>Centaurea cyanus</i>
SHI CHUN	石蕲	Lettuce Ulva Frond	T6599 <i>Ulva lactuca</i>
SHI DA GONG LAO MU	十大功劳木	Leatherleaf Mahonia	T4055 <i>Mahonia bealei</i>

SHI DA GONG LAO YE	十大功劳叶	Leatherleaf Mahonia Leaf	T4056 <i>Mahonia bealei</i>
SHI DA GONG LAO ZI	十大功劳子	Leatherleaf Mahonia Fruit	T4057 <i>Mahonia bealei</i>
SHI DAN CAO	石胆草	Fan-shaped Corallodiscus	T1672 <i>Corallodiscus flabellatus</i> [Syn. <i>Didissandra flabellat</i>]
SHI DI	柿蒂	Persimmon Persistent Calyx	T2217 <i>Diospyros kaki</i>
SHI DI QIAN	石地钱		T5444 <i>Reboulia hemisphaerica</i>
SHI DIAO BAI	石刁柏	Curinary Asparagus	T0751 <i>Asparagus officinalis</i>
SHI DIAO LAN	石吊兰	Fewflower Lysionotus	T4005 <i>Lysionotus pauciflorus</i>
SHI ER	石耳	Rock-Ears*	T6601 <i>Umbilicaria esculenta</i> [Syn. <i>Gyrophora esculenta</i>]
SHI ER RUI CHOU SHI CAI	十二蕊臭矢菜*	Dodecapistil Spiderflower*	T5060 <i>Polanisia dodecandra</i>
SHI ER RUI SHANG LU	十二蕊商陆	Decapistil Pokeweed*	T4863 <i>Phytolacca dodecandra</i>
SHI FANG FENG	石防风	Terebinthaceous Hogfennel	T4773 <i>Peucedanum terebinthaceum</i>
SHI GAN ZI	石柑子	Chinese Pothos	T5189 <i>Pothos chinensis</i>
SHI GEN	柿根	Persimmon Root	T2218 <i>Diospyros kaki</i>
SHI GUAN YUAN WEI	饰冠鸢尾	Crest Iris	T3456 <i>Iris cristata</i>
SHI HU	石斛	Noble Dendrobium	T2107 <i>Dendrobium nobile</i>
SHI HU DIE	石蝴蝶	Kerri Petrocosmea*	T4747 <i>Petrocosmea kerrii</i>
SHI HU XIAO GU	石斛小菇	Dendrob Mycena	T4336 <i>Mycena dendrobii</i>
SHI HU ⁽³⁾	石虎	Officinal Evodia	T2646 <i>Evodia rutaecarpa</i> var. <i>officinalis</i>
SHI HUA	石花	Parmelia Lichen	T4656 <i>Parmelia saxatilis</i>
SHI JI NING	石芥苧	Scabrous Mosla	T4307 <i>Mosla scabra</i> [Syn. <i>Mosla punctata</i>]
SHI JIAO CAO	石椒草	Sessile-fruit Chinaure	T0967 <i>Boeninghausenia sessilicarpa</i>
SHI JUN ZI	使君子	Rangooncreeper	T5384 <i>Quisqualis indica</i>
SHI JUN ZI YE	使君子叶	Rangooncreeper Leaf	T5385 <i>Quisqualis indica</i>
SHI KU JU	史库菊	Dwarf Marigold	T5805 <i>Schkuhria pinnata</i>
SHI LA HONG	石腊红	Fish Pelargonium	T4691 <i>Pelargonium hortorum</i>
SHI LI ZI	石栗子	Belgaum Walnut Seed	T0300 <i>Aleurites moluccana</i>
SHI LIU GEN	石榴根	Pomegranate Root	T5327 <i>Punica granatum</i>
SHI LIU PI	石榴皮	Pomegranate Peel	T5328 <i>Punica granatum</i>
SHI LIU XIN CAI	石榴心材	Pomegranate Heartwood	T5329 <i>Punica granatum</i>
SHI LIU YE	石榴叶	Pomegranate Leaf	T5330 <i>Punica granatum</i>
SHI LIU ZHONG ZI	石榴种子	Pomegranate Seed	T5331 <i>Punica granatum</i>
SHI LONG RUI	石龙芮	Poisonous Buttercup	T5415 <i>Ranunculus sceleratus</i>
SHI LUO ZI	蒔萝子	Dill Fruit	T0472 <i>Anethum graveolens</i>
SHI NAN	石楠	Chinese Photinia	T4828 <i>Photinia serrulata</i>
SHI NAN TENG	石南藤		T4974 <i>Piper wallichii</i> [Syn. <i>Piper wallichii</i> var. <i>hupehense</i>]
SHI QI	柿漆	Immature Persimmon Fruit Juice	T2219 <i>Diospyros kaki</i>
SHI RUI	石蕊	Reindeer Moss	T1526 <i>Cladonia rangiferina</i>
SHI SHENG BIAN LEI	湿生扁蕾	Swampy Gentianopsis	T2941 <i>Gentianopsis paludosa</i>
SHI SHENG JIN SI TAO	湿生金丝桃	Wetland St.John'swort*	T3367 <i>Hypericum uliginosum</i>
SHI SHI DANG GUI	施氏当归*	Shkioki Angelica*	T0494 <i>Angelica shkiokiana</i>
SHI SHUA BA	石刷把	Nude Fern	T5269 <i>Psilotum nudum</i>
SHI SUAN	石蒜	Shorttube Lycoris	T3986 <i>Lycoris radiata</i> [Syn. <i>Amaryllis radiata</i>]
SHI WEI	石韦	Japanese Felt Fern Frond	T5357 <i>Pyrrosia lingua</i>
SHI XIAN QIE	十线茄*	Decaline Nightshade*	T5996 <i>Solanum decemlineata</i>
SHI XIANG RU	石香薷	Chinese Orthodon	T4304 <i>Mosla chinensis</i> [Syn. <i>Orthodon chinensis</i>]
SHI XIONG RUI JIAO GUO MU	十雄蕊角果木	Ten-stamen Ceriops*	T1335 <i>Ceriops decandra</i>
SHI YAN FENG	石岩枫	Stone Mallotus*	T4085 <i>Mallotus repandus</i> var. <i>chrysocarpus</i> [Syn. <i>Mallotus chrysocarpus</i> ; <i>Mallotus repandus</i>]
SHI YE	柿叶	Persimmon Leaf	T2220 <i>Diospyros kaki</i>

SHI YE CAO	柿叶草	Reini Milkwort*	T5082 <i>Polygala reinii</i>
SHI YE GAN SONG	匙叶甘松	Spoonleaf Nardostachys	T4387 <i>Nardostachys jatamansi</i>
SHI YONG DA HUANG	食用大黄	Rhubarb	T5476 <i>Rheum rhaponticum</i>
SHI YONG GE	食用葛	Edible Kudzuvine	T5312 <i>Pueraria edulis</i>
SHI YONG HUANG QI	食用黄芪	Edible Milkvetch*	T0792 <i>Astragalus cibarius</i>
SHI YONG RI ZHONG HUA	食用日中花	Hottentot Fig	T4200 <i>Mesembryanthemum edule</i>
SHI ZHI JIA	石指甲	Stringy Stonecrop	T5857 <i>Sedum sarmentosum</i>
SHI ZHU	石竹	Chinese Pink	T2143 <i>Dianthus chinensis</i>
SHI ZI	柿子	Persimmon	T2221 <i>Diospyros kaki</i>
SHI ZI XING FENG JI SHENG	十字形槲寄生*	Cruciate Mistletoe*	T6776 <i>Viscum cruciatum</i>
SHOU LIAN LIANG YI MU	收敛两翼木	Cuachalalate (local name)	T0431 <i>Amphipterygium adstringens</i>
SHOU ZHANG SHEN	手掌参	Conic Gymnadenia	T3077 <i>Gymnadenia conopsea</i>
SHU CE JIN ZHAN HUA	蜀侧金盏花	Szechwan Adonis	T0190 <i>Adonis sutchuenensis</i>
SHU CHI PO PO NA	梳齿婆婆纳*	Pectinate Speedwell*	T6726 <i>Veronica pectinata</i> var. <i>glandulosa</i>
SHU DI HUANG	熟地黄	Adhesive Rehmannia Cocked Root	T5446 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]
SHU HUA JIE CAO	疏花缬草*	Laxflower Valeriana*	T6678 <i>Valeriana laxiflora</i>
SHU HUA MAO E XIANG CHA CAI	疏花毛萼香茶菜	Laxflower Hairyscal Rabdosia	T3487 <i>Isodon eriocalyx</i> var. <i>laxiflora</i>
SHU HUA SHI HU	束花石斛	Goldenflower Dendrobium	T2098 <i>Dendrobium chrysanthum</i>
SHU JI GU CHANG SHAN	束鸡骨常山*	Constricted Alstonia*	T0368 <i>Alstonia constricta</i>
SHU KUI HUA	蜀葵花	Hollyhock Flower	T0382 <i>Althaea rosea</i>
SHU KUI YE SHU YU	蜀葵叶薯蓣	Hollyhock-like Yam	T2189 <i>Dioscorea althaeoides</i>
SHU LI	鼠李	Davurian Buckthorn	T5457 <i>Rhamnus davurica</i>
SHU LIANG	薯蓣	Shoulang Yam	T2193 <i>Dioscorea cirrhosa</i> [Syn. <i>Dioscorea pogonoides</i>]
SHU MA	菽麻	Sunn Crotalaria	T1823 <i>Crotalaria juncea</i>
SHU MI	黍米	Broomcorn Millet	T4618 <i>Panicum miliaceum</i>
SHU QU CAO	鼠曲草	Cudweed	T3026 <i>Gnaphalium affine</i> [Syn. <i>Gnaphalium multiceps</i>]
SHU QU FENG MAO JU	鼠麴风毛菊	Cudweed-like Saussurea	T5753 <i>Saussurea gnaphaloides</i>
SHU SHE	树舌	Tongue-on-tree	T2844 <i>Ganoderma applanatum</i>
SHU WEI CAO HUA CI TONG	鼠尾草花刺桐	Salviaflower Coralbean*	T2473 <i>Erythrina salviiflora</i>
SHU XING DU JUAN	树形杜鹃	Treelike Rhododendron	T5503 <i>Rhododendron arboreum</i>
SHU XU ZHU MA	束序苎麻	Siam Falsenettle	T0963 <i>Boehmeria siamensis</i>
SHU ZHANG LAO GUAN CAO	鼠掌老鹳草	Siberian Cranesbill	T2947 <i>Geranium sibiricum</i>
SHU ZHI BAN RI HUA	树脂半日花	Resinoid Cistus*	T1870 <i>Cistus ladaniferus</i>
SHU ZHI DA JI	树脂大戟	Resinoid Euphorbia*	T2616 <i>Euphorbia resinifera</i>
SHU ZHI YAN FU MU	树脂盐肤木*	Resinoid Sumac*	T5535 <i>Rhus retinorrhoea</i>
SHU ZHUANG MA HUANG	树状麻黄	Tall Ephedra	T2376 <i>Ephedra procera</i>
SHUAN CHI QIN	栓翅芹	Common Prangos	T5191 <i>Prangos pabularia</i>
SHUAN CHI WEI MAO	栓翅卫矛	Corkywing Euonymus	T2545 <i>Euonymus phellomana</i>
SHUAN ZHUANG CI TONG	拴状刺桐*	Suberose Coralbean*	T2477 <i>Erythrina suberosa</i>
SHUANG BAO MO GU	双孢蘑菇	Bispore Mushroom*	T0210 <i>Agaricus bisporus</i>
SHUANG BIAN GUA LOU	双边栝楼	Rosthorn Snakegourd	T6513 <i>Trichosanthes rosthornii</i> [Syn. <i>Trichosanthes uniflora</i>]
SHUANG CHA ZAO	双叉藻	Brown Alga <i>Bifurcaria bifurcata</i>	T0943 <i>Bifurcaria bifurcata</i>
SHUANG HUA FAN HONG HUA	双花番红花*	Biflower Crocus*	T1807 <i>Crocus chrysanthus-biflorus</i>
SHUANG HUA JIN SI TAO	双花金丝桃*	Biflower St.John'swort*	T3353 <i>Hypericum geminiflorum</i>
SHUANG SE JI DAN HUA	双色鸡蛋花*	Twocoloured Frangipani*	T5030 <i>Plumeria bicolor</i>
SHUANG SE JIN GUANG JU	双色金光菊*	Pinewoods Coneflower	T5603 <i>Rudbeckia bicolor</i>
SHUANG SE SUO ZI QIN	双色梭子芹	Twocoloured Pleurospermum	T5019 <i>Pleurospermum govanianum</i> var. <i>bicolor</i>

SHUANG SUI MA HUANG	双穗麻黄	Jointfir Ephedra	T2366 <i>Ephedra distachya</i>
SHUANG YE XI XIN	双叶细辛	Caulescent Wildginger	T0724 <i>Asarum caulescens</i>
SHUANG ZHONG ZI SHU LI	双种子鼠李*	Diseed Buckthorn*	T5458 <i>Rhamnus disperma</i>
SHUI CAI	睡菜	Bogbean	T4194 <i>Menyanthes trifoliata</i>
SHUI CAI GEN	睡菜根	Bogbean Root	T4195 <i>Menyanthes trifoliata</i>
SHUI CHAO YANG	水朝阳	Aquatic-sunflower Inula	T3432 <i>Inula helianthus-aquatica</i>
SHUI FEI JI	水飞蓟	St. Marys	T5957 <i>Silybum marianum</i>
SHUI GAN CAO	水甘草	China Amsonia	T0434 <i>Amsonia sinensis</i>
SHUI GUI JIAO YE	水鬼蕉叶	Tropical American Hymenocallis Leaf	T3320 <i>Hymenocallis littoralis</i> [Syn. <i>Hymenocallis americana</i> ; <i>Pancreatium littoralis</i>]
SHUI HU LU	水葫芦	Common Waterhyacinth	T2325 <i>Eichhornia crassipes</i>
SHUI HU MAN	水胡满	Unarmed Glorybower	T1558 <i>Clerodendron inerme</i>
SHUI HUANG YANG MU	水黄杨木	Caudate Milkwort	T5072 <i>Polygala caudata</i>
SHUI HUI XIANG	水茴香	Winked Marshweed	T3840 <i>Limnophila rugosa</i>
SHUI HUI XIANG AN	水茴香桉	Phellandral Eucalyptus*	T2515 <i>Eucalyptus phellandra</i>
SHUI JIE GU DAN	水接骨丹	Hairy Willowweed	T2387 <i>Epilobium hirsutum</i>
SHUI JIN FENG	水金凤	Lightyellow Snapweed	T3413 <i>Impatiens nolitangere</i>
SHUI JING LAN	水晶兰	Indianpipe	T4276 <i>Monotropa uniflora</i>
SHUI LIAN YE TONG	睡莲叶桐*	Sleeping Lotusleafung	T3230 <i>Hernandia nymphaeifolia</i>
SHUI LIAO	水蓼	Red-knees	T5104 <i>Polygonum hydropiper</i>
SHUI LIU DOU	水流豆	Poongaoil Pongamia	T5143 <i>Pongamia pinnata</i>
SHUI LONG GU	水龙骨	Japanese Polypody	T5124 <i>Polypodium niponicum</i>
SHUI LU ZAO	水陆枣	Amphibian Jujube*	T6914 <i>Ziziphus amphibia</i>
SHUI MA TIAO	水麻芳	Thunberg Knotweed	T5119 <i>Polygonum thunbergii</i>
SHUI MU CAO	水木草	Cuspidate Mnium Herb	T4259 <i>Mnium cuspidatum</i>
SHUI MU XUE LIAN	水母雪莲	Medusa Saussurea	T5759 <i>Saussurea medusa</i>
SHUI NIU JIAO	水牛角	Buffalo Horn	T1045 <i>Bubalus bubalis</i>
SHUI QIE	水茄	Water Nightshade	T6015 <i>Solanum torvum</i>
SHUI QIN	水芹	Javan Waterdropwort	T4482 <i>Oenanthe javanica</i>
SHUI QING SHU	水青树	Tetracentron	T6352 <i>Tetracentron sinense</i>
SHUI QU LIU	水曲柳	Manchurian Ash	T2772 <i>Fraxinus mandshurica</i>
SHUI RONG	水榕	Liddeed Cleistocalyx	T1544 <i>Cleistocalyx operculatus</i>
SHUI SHAN	水杉	Dawn Redwood	T4208 <i>Metasequoia glyptostroboides</i>
SHUI SONG	水松	Fragile Codium Frond	T1595 <i>Codium fragile</i>
SHUI TONG MU	水桐木	Harland Fig	T2719 <i>Ficus fistulosa</i> [Syn. <i>Ficus harlandii</i>]
SHUI TUAN HUA	水团花	Pilular Adina	T0180 <i>Adina pilulifera</i> [Syn. <i>Cephalanthus pilulifera</i>]
SHUI WU GONG	水蜈蚣	Shortleaf Kyllinga	T3646 <i>Kyllinga brevifolia</i>
SHUI XIAN CAO	水线草	Corymbose Hedyotis	T3126 <i>Hedyotis corymbosa</i> [Syn. <i>Oldenlandia corymbosa</i>]
SHUI XIAN GEN	水仙根	Chinese Narcissus Bulb	T4384 <i>Narcissus tazetta</i> var. <i>chinensis</i>
SHUI XIAN HUA	水仙花	Chinese Narcissus Flower	T4385 <i>Narcissus tazetta</i> var. <i>chinensis</i>
SHUI YANG MEI	水杨梅	Japanese Avens	T2955 <i>Geum japonicum</i>
SHUI YANG MEI GEN	水杨梅根	Japanese Avens Root	T2956 <i>Geum japonicum</i>
SHUI YANG MU BAI PI	水杨木白皮	Bitter Willow Bast	T5653 <i>Salix purpurea</i>
SHUI YANG ZHI YE	水杨枝叶	Bitter Willow Branch-leaf	T5654 <i>Salix purpurea</i>
SHUI ZHI	水栀	Bigflower Cape Jasmine	T2884 <i>Gardenia jasminoides</i> var. <i>grandiflora</i>
SHUI ZHI YE	水栀叶	Bigflower Cape Jasmine Leaf	T2885 <i>Gardenia jasminoides</i> var. <i>grandiflora</i>
SI BO LI YA AI JU	西伯利亚艾菊	Siberian Tansy	T6295 <i>Tanacetum sibiricum</i> [Syn. <i>Filifolium sibiricum</i>]
SI CHI HUAI	四翅槐	New Zealand Kowhai	T6044 <i>Sophora tetraptera</i>
SI CHI HUANG QI	四翅黄芪*	Fourwing Milkvetch*	T0808 <i>Astragalus tetraplerus</i>

SI CHI SI LENG CAO	四齿四棱草	Fourteech Schnabelia	T5807 <i>Schnabelia tetradonta</i>
SI CHI YUE JIAN CAO	四翅月见草	Fourwing Eveningprimrose*	T4483 <i>Oenothera tetraptera</i>
SI CHUAN CHAN DA HUANG	四川产大黄		T5479 <i>Rheum</i> sp.
SI CHUAN LUN HUAN TENG	四川轮环藤	Szechwan Cyclea	T1933 <i>Cyclea sutchuenensis</i>
SI CHUAN QING FENG TENG	四川清风藤	Szechwan Sabia	T5637 <i>Sabia schumanniana</i>
SI CHUAN XIANG CHA CAI	四川香茶菜	Sichuna Rabdosia	T3525 <i>Isodon setschwanensis</i>
SI CHUAN YIN YANG HUO	四川淫羊藿	Szechuan Epimedium	T2404 <i>Epimedium sutchuenense</i>
SI GE MENG XUAN HAU	司格蒙旋花*	Scammony Glorybind	T1654 <i>Convolvulus scammonia</i>
SI GUA	丝瓜	Suakwa Vegetablesponge	T3934 <i>Luffa cylindrica</i>
SI GUA ZI	丝瓜子	Suakwa Vegetablesponge Seed	T3935 <i>Luffa cylindrica</i>
SI GUO HUANG QI	四国黄芪*	Siko Milkvetch*	T0803 <i>Astragalus shikokianus</i>
SI GUO XIANG CHA CAI	四国香茶菜	Shiko Rabdosia*	T5398 <i>Rabdosia shikokiana</i>
SI GUO YAO HUA	四国尧花*	Siko Stringbush*	T6823 <i>Wikstroemia sikokiana</i>
SI JI QING	四季青	Purpleflower Holly	T3388 <i>Ilex chinensis</i> [Syn. <i>Ilex purpurea</i>]
SI JI XIANG ROU GUO	四基香肉果	Tetrabase Casimiroa*	T1227 <i>Casimiroa tetrameria</i>
SI JIAO SHU	丝胶树	Silk-rubber Tree	T2811 <i>Funtumia elastica</i>
SI JING JIE BA DOU	似荆芥巴豆*	Nepeta-like Croton*	T1852 <i>Croton nepetaefolius</i>
SI KA LUO LAI NA SHI SONG	似卡罗来纳石松*	Carolina-like Clubmoss*	T3968 <i>Lycopodium carolinianum</i> var. <i>affine</i>
SI KAO LE ZI JIN	斯考勒紫堇	Scouler Corydalis*	T1739 <i>Corydalis scouleri</i>
SI LENG JIAO MAO KE JUN	四棱角毛壳菌*		T1344 <i>Chaetomium quadrangulatum</i>
SI LENG LA SHU	四棱蜡树	Blue Ash	T2776 <i>Fraxinus quadrangulata</i>
SI LENG ZE LAN	四棱泽兰	Four-arris Eupatorium*	T2568 <i>Eupatorium quadrangulare</i>
SI LI LAN KA TU MI SHU	斯里兰卡土密树	Sri-Lankan Bridelia	T1028 <i>Bridelia retusa</i>
SI LIE BAI ZHU	四裂白珠	Four Sepals Gaultheria	T2894 <i>Gaultheria tetrameria</i>
SI LIE HONG JING TIAN	四裂红景天	Foursplit Rhodiola	T5498 <i>Rhodiola quadrifida</i>
SI MA LI JIN SHI LIAN	似马利筋石莲*		T5962 <i>Sinocrassula asclepiadea</i>
SI MAO TENG	思茅藤	Longeared Epigynum	T2386 <i>Epigynum auritum</i>
SI MI SHI MU DAN CAO	斯密氏牡丹草	Smirnaw Leontice*	T3747 <i>Leontice smirnowii</i>
SI MIAN MAO JIA MI YE ZE LAN	似绵毛茛菪叶泽兰*	Tinileaf Eupatorium*	T2578 <i>Eupatorium tinifolium</i>
SI MIAN MU	丝棉木	Winterberry Euonymus	T2538 <i>Euonymus bungeanus</i>
SI ROU TUO GUO YE MI ZHU YU	似肉托果叶蜜茱萸*		T4166 <i>Melicope semecarpifolia</i>
SI SHI MAO DI HUANG	斯氏毛地黄	Schischkin Foxglove*	T2178 <i>Digitalis schischkinii</i>
SI SHI TIAN JIE CAI	斯氏天芥菜*	Steudner Heliotrope*	T3181 <i>Heliotropium steudneri</i>
SI SHU JI GU CHANG SHAN	四数鸡骨常山*	Quaternary Alstonia*	T0372 <i>Alstonia quaternata</i>
SI TA WEI CUI QUE HUA	斯塔维翠雀花	Stavisacre	T2086 <i>Delphinium staphisagria</i>
SI TE WEN HUANG TAN	斯特文黄檀	Stevenson Rosewood*	T2017 <i>Dalbergia stevensonii</i>
SI TU JI XUE TENG	斯图鸡血藤*	Stuhlmann Millettia*	T4244 <i>Millettia stuhlmannii</i>
SI TUO HOU BING HUA	斯托厚柄花		T4571 <i>Pachypodanthium staudii</i>
SI XIAO BO SHUANG YE YU GU MU	似小槩双叶鱼骨木	Barberry-like-dileaf Canthium	T1178 <i>Canthium berberidifolium</i>
SI YANG PI ZHI RU GU	似羊皮纸乳菇*	Parchment-like Milky*	T3652 <i>Lactarius pergamenus</i>
SI YANG SHU YE BAI JIAN MU	似杨树叶白坚木*	Poplar-leaf-like White Quebracho*	T0771 <i>Aspidosperma populifolium</i>
SI ZI TAN	似紫檀*	Sandalwood Padauk	T5305 <i>Pterocarpus santalinus</i>
SONG HAO	松蒿	Japanese Phtheirospermum	T4831 <i>Phtheirospermum japonicum</i> [Syn. <i>Gerardia japonica</i>]
SONG LUO	松萝	Long Usnea Filament	T6654 <i>Usnea longissima</i>
SONG PAN WU TOU	松潘乌头	Sungpan Monkshood	T0135 <i>Aconitum sungpanense</i>
SONG XIANG	松香	Colophony	T4917 <i>Pinus massoniana</i>
SONG XUN	松蕈	Pine Mushroom	T6504 <i>Tricholoma matsutake</i> [Syn. <i>Armillaria matsutake</i>]
SONG YE FANG FENG	松叶防风	Yunnan Seseli	T5937 <i>Seseli yunnanense</i>

SONG YE QIAN LI GUANG	松叶千里光	Pineleaf Groundsel	T5874 <i>Senecio abrotanifolius</i>
SU DA QI GAN JU	苏打其柑桔	Sudach Citrus*	T1511 <i>Citrus sudachii</i>
SU DAN KE LE GUO	苏丹可乐果	Acuminate Colanut	T1615 <i>Cola acuminata</i>
SU FANG HUA	素方花	Common White Jasmine	T3556 <i>Jasminum officinale</i>
SU GE LAN DANG GUI	苏格兰当归	Scots Lovage	T3823 <i>Ligusticum scoticum</i>
SU GE LAN HU TONG	苏格兰胡桐*	Caledonian Beautyleaf*	T1126 <i>Calophyllum caledonicum</i>
SU GEN XIANG WAN DOU	宿根香豌豆	Everlasting Pea	T3704 <i>Lathyrus latifolius</i>
SU GEN ZHANG YA CAI	宿根獐芽菜	Alpine Bog-swertia	T6230 <i>Swertia perennis</i>
SU HE XIANG	苏合香	Oriental Sweetgum Resin	T3868 <i>Liquidambar orientalis</i>
SU HUA DANG SHEN	素花党参	Moderate Asiabell	T1600 <i>Codonopsis pilosula</i> var. <i>modesta</i> [Syn. <i>Codonopsis modesta</i>]
SU KU BA DOU HUA	苏库巴斗花	Bellaco-Caspi	T3251 <i>Himatanthus sucuuba</i>
SU LI NAN ROU DOU KOU	苏里南肉豆蔻	Ucahub; Baboen	T6770 <i>Virola surinamensis</i> [Syn. <i>Myristica surinamensis</i>]
SU MEN BAI JIU CAO	苏门白酒草		T2426 <i>Erigeron sumatrensis</i>
SU MEN DA LA HONG DOU SHAN	苏门答腊红豆杉	Sumatran Yew	T6316 <i>Taxus sumatrana</i>
SU MEN DA LA WEN SHU LAN	苏门答腊文殊兰	Lovely Crinum*	T1793 <i>Crinum amabile</i>
SU MI	粟米	Foxtail Millet	T5938 <i>Setaria italica</i>
SU MI CAO	粟米草	Fiveleaf Carpetweed	T4261 <i>Mollugo pentaphylla</i>
SU MU	苏木	Sappan Caesalpinia	T1108 <i>Caesalpinia sappan</i>
SU TIE SHU GUO	苏铁树果	Sago Seed	T1927 <i>Cycas revoluta</i>
SU TIE YE	苏铁叶	Sago Frond	T1928 <i>Cycas revoluta</i>
SU XIN HUA	素馨花	Largeflower Jasmine*	T3554 <i>Jasminum grandiflorum</i>
SU XIN YE BAI YING	素馨叶白英	Jasmine Nightshade	T6001 <i>Solanum jasminoides</i>
SU ZHU YANG YANG	粟猪殃殃	Hedge Bedstraw	T2832 <i>Galium mollugo</i>
SUAN CHOU MU JI CAO	蒜臭母鸡草		T4746 <i>Petiveria alliacea</i>
SUAN GOU TENG	酸钩藤*	Acid Gambirplant*	T6604 <i>Uncaria acida</i>
SUAN JIANG	酸浆	Japanese-lantern	T4845 <i>Physalis alkekengi</i>
SUAN JIAO	酸角	Tamarind Fruit	T6285 <i>Tamarindus indica</i>
SUAN MO	酸模	Garden Sorrel	T5605 <i>Rumex acetosa</i>
SUAN MO YE	酸模叶	Garden Sorrel Leaf	T5606 <i>Rumex acetosa</i>
SUAN SHI LIU	酸石榴	Pomegranate	T5332 <i>Punica granatum</i>
SUAN SHUI CAO	酸水草	Thorowort Pondweed	T5178 <i>Potamogeton perfoliatus</i>
SUAN WEI XIANG KE KE	蒜味香科科	Garlicsmell Germander*	T6368 <i>Teucrium scordium</i>
SUAN YE PO LUO MEN SHEN	蒜叶婆罗门参	Salsify	T6489 <i>Tragopogon porrifolius</i>
SUAN ZAO	酸枣	Spine Date	T6918 <i>Ziziphus jujuba</i> var. <i>spinosa</i>
SUAN ZAO REN	酸枣仁	Spine Date Seed	T6919 <i>Ziziphus jujuba</i> var. <i>spinosa</i>
SUI BA QIA	穗菝葜	Eurasia Greenbrier	T5974 <i>Smilax aspera</i>
SUI BIAN WO JU	穗变莴苣*	Laciniate Lettuce*	T3660 <i>Lactuca laciniata</i>
SUI HUA LUO HAN SONG	穗花罗汉松	Matai	T5055 <i>Podocarpus spicatus</i>
SUI HUA MA XIAN HAO	穗花马先蒿	Spicate Woodbetony	T4683 <i>Pedicularis spicata</i>
SUI HUA MU JING	穗花牡荆	Lilac Chastetree	T6782 <i>Vitex agnuscastus</i>
SUI MAO HE BAO MU DAN	繸毛荷包牡丹	Wild Bleedingheart	T2149 <i>Dicentra eximia</i>
SUI MI SHA CAO	碎米莎草	Rice Galingale	T1976 <i>Cyperus iria</i>
SUI ZHUANG BAI JIN HUA	穗状百金花	Spicate Centaury*	T1310 <i>Centaury spicatum</i>
SUI ZHUANG BI QIAO JIANG	穗状闭鞘姜*	Cana do brejo (in Brazil)	T1757 <i>Costus spicatus</i>
SUI ZHUANG WU TOU	穗状乌头*	Spiked Monkshood	T0133 <i>Aconitum spicatum</i>
SUI ZHUANG YUN XIANG	繸状芸香	Syrian Rue*	T5625 <i>Ruta chalepensis</i>
SUO DUO MI QIE	索多米茄	Sodome Nightshade*	T6012 <i>Solanum sodomeum</i> [Syn. <i>Solanum sodomaicum</i>]
SUO GUO HUANG QI	梭果黄芪	Ernest Milkvetch*	T0794 <i>Astragalus ernestii</i>
SUO LA MU	桫拉木	Prinos-like Salacia	T5648 <i>Salacia prinoides</i> [Syn. <i>Salacia chinensis</i>]

SUO LUO	桫欏	Spiny Alsophila	T0364 <i>Alsophila spinulosa</i>
SUO LUO ZI	娑罗子	Wilson Buckeye Seed	T0205 <i>Aesculus wilsonii</i>
SUO SHA MI	缩砂密	Locklebur-like Amomum	T0420 <i>Amomum xanthioides</i>
SUO YANG	锁阳	Songaria Cynomorium	T1972 <i>Cynomorium songaricum</i>
TA HUA BAI LI XIANG	塔花百里香*		T6451 <i>Thymus satuireioides</i>
TA LA WU TOU	塔拉乌头	Tala Monkshood*	T0136 <i>Aconitum talassicum</i>
TA SI MA NI YA JIE GENG LAN	塔斯马尼亚桔梗兰	Flax Lily	T2141 <i>Dianella tasmanica</i>
TA YOU XIE GUA	塔尤泻瓜	Taiuia Root*	T1274 <i>Cayaponia tayuya</i>
TAI BAI CONG MU	太白樛木	Taibaen Aralia	T0576 <i>Aralia taibaiensis</i>
TAI BAI HUA	太白花	Stellate Cladonia	T1528 <i>Cladonia stellaris</i> [Syn. <i>Cladonia alpestris</i>]
TAI DA SONG	台大松	Loblolly Pine, Old Field Pine	T4927 <i>Pinus taeda</i>
TAI DONG XI XIN	台东细辛	Taiton Wildginger	T0734 <i>Asarum taitoense</i>
TAI GUO BA JI	泰国巴戟	Thailand Indianmulberry*	T4281 <i>Morinda coreia</i>
TAI GUO NIU XU HUA	泰国扭序花	Thailand Clinacanthus*; Lin-Nguu-Hao (Thai name)	T1572 <i>Clinacanthus siamensis</i>
TAI GUO SHAN QIAN NIU	泰国山牵牛	Thailand Clockvine (Raang-Chuet)	T6445 <i>Thunbergia laurifolia</i>
TAI GUO ZHI ZI	泰国梔子*	Thailand Gardenia*	T2887 <i>Gardenia thailandica</i>
TAI JING TIAN	苔景天	Biting Stonecrop	T5849 <i>Sedum acre</i>
TAI PING YANG JIA ZE LAN	太平洋假泽兰	Pacific Mikania*	T4229 <i>Mikania mendocina</i>
TAI PING YANG LIN MAO JUE	太平洋鳞毛蕨	Pacific Wood Fern	T2285 <i>Dryopteris pacifica</i>
TAI SHAN YAN FU ZI	泰山盐麸子	Taishan Sumac Fruit	T5539 <i>Rhus taishanensis</i>
TAI WAN AN XI XIANG	台湾安息香	Taiwan Snowbell	T6199 <i>Styrax formosanus</i>
TAI WAN CHA MU	台湾檫木	Taiwan Sassafras	T5745 <i>Sassafras randainense</i>
TAI WAN CU FEI	台湾粗榧	Wilson Plumyew	T1325 <i>Cephalotaxus wilsoniana</i>
TAI WAN CUI BAI	台湾翠柏	Taiwan Incense Cedar	T1121 <i>Calocedrus macrolepis</i> var. <i>formosana</i>
TAI WAN FENG DOU CAI	台湾蜂斗菜*	Taiwan Butterbur*	T4739 <i>Petasites formosanus</i>
TAI WAN FU RONG	台湾芙蓉	Taiwan Hibiscus	T3247 <i>Hibiscus taiwanensis</i>
TAI WAN GE NA XIANG	台湾哥纳香	Taiwan Goniothalamus	T3041 <i>Goniothalamus amuyon</i>
TAI WAN GUO SONG	台湾果松	Masters Pine	T4907 <i>Pinus armandii</i> var. <i>mastersiana</i>
TAI WAN HU JIAO	台湾胡椒*	Taiwan Pepper*	T4970 <i>Piper taiwanense</i>
TAI WAN HUANG BO	台湾黄槿	Taiwan Corktree*	T4790 <i>Phellodendron amurense</i> var. <i>wilsonii</i>
TAI WAN JI	台湾薊	Taiwan Thistle*	T1447 <i>Cirsium japonica</i> var. <i>takaoense</i>
TAI WAN JI NING	台湾芥苧	Taiwan Mosla	T4539 <i>Orthodon formosanus</i>
TAI WAN JIN GU CAO	台湾筋骨草	Taiwan Bugle*	T0272 <i>Ajuga taiwanensis</i>
TAI WAN JIU LI XIANG	台湾九里香	Taiwan Common Jasminorange	T4316 <i>Murraya crenulata</i>
TAI WAN LUO HAN SONG	台湾罗汉松	Nakai Podocarpus	T5047 <i>Podocarpus nakaii</i>
TAI WAN LV DAO TENG HUANG	台湾绿岛藤黄*	Lanyu Garcinia	T2861 <i>Garcinia linii</i>
TAI WAN PI PA	台湾枇杷	Taiwan Loquat	T2430 <i>Eriobotrya deflexa</i>
TAI WAN PU GONG YING	台湾蒲公英	Taiwan Dandelion*	T6300 <i>Taraxacum formosanum</i>
TAI WAN QIAN HU	台湾前胡	Taiwan Hogfennel	T4755 <i>Peucedanum formosanum</i>
TAI WAN QIAN JIN TENG	台湾千金藤	Sasak Stephania*	T6132 <i>Stephania sasakii</i>
TAI WAN RUI FANG RUN NAN	台湾瑞芳润楠*	Zuiho Machilus	T4019 <i>Machilus zuihoensis</i>
TAI WAN SHAN	台湾杉	Cryptomeria-like Taiwania	T6284 <i>Taiwania cryptomerioides</i>
TAI WAN SHAN DOU GEN	台湾山豆根	Taiwan Euchresta	T2526 <i>Euchresta formosana</i>
TAI WAN SHAN MU	台湾杉木	Konish Chinafir	T1890 <i>Cunninghamia konishii</i>
TAI WAN SHU LI	台湾鼠李	Taiwan Buckthorn*	T5459 <i>Rhamnus formosana</i>
TAI WAN SHUANG HU DIE	台湾双蝴蝶	Taiwan Dualbutterfly	T6538 <i>Tripterospermum taiwanense</i>
TAI WAN TANG SONG CAO	台湾唐松草	Taiwan Meadowrue	T6415 <i>Thalictrum urbainii</i>
TAI WAN XIAO BO	台湾小檗	Taiwan Barberry	T0907 <i>Berberis kawakamii</i>
TAI WAN XIU XIAN JU	台湾绣线菊	Taiwan Spiraea*	T6077 <i>Spiraea formosana</i>
TAI WAN YUN SHAN	台湾云杉	Taiwan Spruce	T4874 <i>Picea morrisonicola</i>
TAI WAN ZE LAN	台湾泽兰	Taiwan Agrimony	T2558 <i>Eupatorium formosanum</i>

TAI ZHONG SHU LI	台中鼠李	Taizhong Buckthorn*	T5462 <i>Rhamnus nakaharai</i>
TAN MANG GUO	坦杠果		T6299 <i>Tanghinia venenifera</i>
TAN XIANG	檀香	Sandalwood	T5715 <i>Santalum album</i>
TANG GU TE DA HUANG	唐古特大黄	Tangut Rhubarb	T5481 <i>Rheum tanguticum</i>
TANG JIE	糖芥	Diffuse Erysimum	T2454 <i>Erysimum diffusum</i>
TANG LI	棠梨	Birchleaf Pear	T5361 <i>Pyrus betulaeifolia</i>
TANG MU XUN DU HUO	汤姆逊独活	Thomson Cowparsnip*	T3226 <i>Heracleum thomsoni</i>
TANG QI	糖槭	Sugar Maple	T0056 <i>Acer saccharum</i>
TANG SONG CAO ZHUANG	唐松草状扁果草	Meadowruelike Isopyrum	T3540 <i>Isopyrum thalictroides</i>
BIAN GUO CAO			
TAO	桃	Peach	T5229 <i>Prunus persica</i>
TAO BEI MU	桃贝母	Peach Fritillary*	T2791 <i>Fritillaria persica</i>
TAO ER QI	桃儿七	Common Sinopodophyllm	T5057 <i>Podophyllum emodii</i> [Syn. <i>Podophyllum emodii</i> var. <i>chinense</i> ; <i>Podophyllum sikkimensis</i> ; <i>Sinopodophyllum emodii</i>]
TAO GEN	桃根	Peach Root	T5230 <i>Prunus persica</i>
TAO HUA	桃花	Peach Flower	T5231 <i>Prunus persica</i>
TAO HUA XIN MU	桃花心木	West Indian Mahogany	T6241 <i>Swietenia mahogany</i>
TAO JIN NIANG	桃金娘	Rosemyrtle	T5529 <i>Rhodomyrtus tomentosa</i>
TAO JING BAI PI	桃茎白皮	Peach Bast	T5232 <i>Prunus persica</i>
TAO NAN GUA	桃南瓜	Peachliking Pumpkin	T1883 <i>Cucurbita pepo</i> var. <i>akoda</i>
TAO REN	桃仁	Peach Kernel	T5233 <i>Prunus persica</i>
TAO YE	桃叶	Peach Leaf	T5234 <i>Prunus persica</i>
TAO YE LIAO	桃叶蓼	Spring Knotweed	T5113 <i>Polygonum persicaria</i>
TAO ZHI	桃枝	Peach Juvenile Branch	T5235 <i>Prunus persica</i>
TE LI NI DA HU JIAO	特立尼达胡椒	Trinidad Pepper*	T4929 <i>Piper aequale</i>
TE LUO YI HUANG QI	特洛伊黄芪	Trojan Milkvetch*	T0809 <i>Astragalus trojanus</i>
TE SI MAN NI HU TONG	特思曼尼胡桐	Teysmanni Beautyleaf*	T1133 <i>Calophyllum teysmannii</i>
TE SI MAN NI HU TONG BIAN	特思曼尼胡桐变种*	Teysmanni Beautyleaf Variaty*	T1134 <i>Calophyllum teysmannii</i> var. <i>inophylloide</i>
ZHONG			
TENG CANG CHI MEI	藤仓赤霉		T2959 <i>Gibberella fujikuroi</i>
TENG HUANG	藤黄	Gamboge Tree Resin	T2866 <i>Garcinia morella</i>
TENG HUANG SHAN ZHU ZI	藤黄山竹子*	Camboge Garcinia*	T2851 <i>Garcinia cambogia</i>
TENG HUANG SHU	藤黄树	Hanbury Garcinia*	T2857 <i>Garcinia hanburyi</i>
TENG SHI SONG	藤石松		T3969 <i>Lycopodium casuarinoides</i>
TI GAI JUE	蹄盖蕨	Painted Fern	T0818 <i>Athyrium filix-femina</i>
TI GEN CAO	嚏根草	Black Hellebore	T3183 <i>Helleborus niger</i>
TI MU CAO	梯牧草	Timothy	T4802 <i>Phleum pratense</i>
TI QIN ZHUANG SHAN NAI	提琴状山奈*	Fiddle-leaf Resurrectionlily*	T3622 <i>Kaempferia pandurata</i>
TIAN CAI	甜菜	Common Beet	T0928 <i>Beta vulgaris</i>
TIAN CHA	甜茶	Sweet Blackberry*	T5600 <i>Rubus suavissimus</i>
TIAN CHENG	甜橙	Sweet Orange	T1508 <i>Citrus sinensis</i>
TIAN CONG	田葱	Woolly Philydrum	T4799 <i>Philydrum lanuginosum</i>
TIAN GEN DUO ZU JUE	甜根多足蕨	Sweetroot Polypody*	T5123 <i>Polypodium glycyrrhiza</i>
TIAN HU SUI	天胡荽	Lawn Pennywort	T3311 <i>Hydrocotyle sibthorpioides</i>
TIAN HUA FEN	天花粉	Mongolian Snakegourd Root	T6512 <i>Trichosanthes kirilowii</i>
TIAN JIAO BAN	天脚板	Chinese Aucuba	T0827 <i>Aucuba chinensis</i> ssp. <i>omeiensis</i>
TIAN LAN ZE LAN	天蓝泽兰	Azure Eupatorium*	T2553 <i>Eupatorium azureum</i>
TIAN LIAO MU	天料木	Cochinchina Homalium	T3275 <i>Homalium cochinchinensis</i>
TIAN MA	天麻	Tall Gastrodia	T2890 <i>Gastrodia elata</i>
TIAN MEN DONG	天门冬	Cochinchinese Asparagus	T0746 <i>Asparagus cochinchinensis</i> [Syn. <i>Asparagus lucidus</i>]

TIAN MING JING	天名精	Common Carpesium	T1210 <i>Carpesium abrotanoides</i>
TIAN MING JING GUO	天名精果	Common Carpesium Fruit	T1211 <i>Carpesium abrotanoides</i>
TIAN NAN XING	天南星	Reddish Jackintheulpit	T0618 <i>Arisaema consanguineum</i>
TIAN NIU ZHI	甜牛至*	Sweet Marjoram	T4524 <i>Origanum majorana</i>
TIAN NV MU LAN	天女木兰	Oyama Magnolia	T4050 <i>Magnolia sieboldii</i>
TIAN PAO ZI	天泡子	Little Groundcherry	T4851 <i>Physalis minima</i>
TIAN PENG ZI	天蓬子	Chinese Atropanthe	T5822 <i>Scopolia sinensis</i>
TIAN PING SHAN YIN YANG HUO	天平山淫羊藿	Tianpingshan Epimedium*	T2400 <i>Epimedium myrianthum</i>
TIAN QIAO MAI GEN	天荞麦根	Golden Buckwheat Root	T2657 <i>Fagopyrum cymosum</i> [Syn. <i>Polygonum cymosum</i>]
TIAN QIE ZI	天茄子	Indian Nightshade	T6000 <i>Solanum indicum</i>
TIAN REN JU	天人菊	Rosering Gaillardia	T2820 <i>Gaillardia pulchella</i>
TIAN SHAN DA HUANG	天山大黄	Tianshan Mountain Rhubarb	T5482 <i>Rheum wittrockii</i>
TIAN SHAN HUA QIU	天山花楸	Tianshan Mountain Mountainash	T6055 <i>Sorbus tianschanica</i>
TIAN SHAN LING ZI QIN	天山棱子芹	Lindley Pleurospermum	T5020 <i>Pleurospermum lindleyanum</i>
TIAN SHAN QIN JIAO	天山秦艽	Tianshan Mountain Gentian	T2936 <i>Gentiana tianschanica</i>
TIAN SHAN SHI	天山薯	Hairyleaf Handelia	T3097 <i>Handelia trichophylla</i>
TIAN SHAN ZHU ZI	甜山竹子*	Dulcin Garcinia*	T2853 <i>Garcinia dulcis</i>
TIAN SHE CAO	甜舌草	Sweet-tongue Lippia*	T3864 <i>Lippia dulcis</i>
TIAN WEN CAO	天文草	Paniculate Spotflower	T6075 <i>Spilanthes acmella</i>
TIAN XIAN GUO	天仙果	Erect Fig	T2716 <i>Ficus beecheyana</i> [Syn. <i>Ficus erecta</i> var. <i>beecheyana</i>]
TIAN XIAN TENG	天仙藤	Common Fibraurea	T2715 <i>Fibraurea recisa</i>
TIAN XUAN HUA	田旋花	Field Bindweed	T1650 <i>Convolvulus arvensis</i>
TIAN YE CI QIN	田野刺芹		T2451 <i>Eryngium campestre</i>
TIAN YE GE NA XIANG	田野哥纳香*	Field Goniotalamus*	T3042 <i>Goniotalamus arvensis</i>
TIAN YE HAO	田野蒿*	Campestral Mugwort	T0668 <i>Artemisia campestris</i>
TIAN YE JI DOU	田野棘豆	Yellow Oxytropis	T4567 <i>Oxytropis campestris</i>
TIAN YE JU	甜叶菊	Rebaud Eupatorium*	T2569 <i>Eupatorium rebaudianum</i>
TIAN YE LONG DAN	田野龙胆	Meadow Gentian	T2906 <i>Gentiana campestris</i>
TIAN ZHOU WEI JIA XIONG RUI	甜周围假雄蕊		T4709 <i>Periandra dulcis</i>
TIAN ZI YU PAN	甜紫玉盘*	Sweet Uvaria*	T6661 <i>Uvaria dulcis</i>
TIAO HU TAI	条蒴苔		T2365 <i>Enteromorpha clathrata</i>
TIAO JING CAO	调经草	Evergreen Euonymus	T2542 <i>Euonymus japonicus</i>
TIAO LIE HUANG JIN	条裂黄堇	Linearsegmented Corydalis	T1721 <i>Corydalis linearoides</i>
TIAO WEN CHUAN XIN LIAN	条纹穿心莲*	Linea Andrographis*	T0455 <i>Andrographis lineata</i>
TIAO WEN LONG SHE LAN	条纹龙舌兰	Stria Agave*	T0227 <i>Agave striata</i>
TIAO WEN SHU WEI CAO	条纹鼠尾草*		T5677 <i>Salvia lineata</i>
TIAO YE JI	条叶蓟	Linearleaf Thistle	T1450 <i>Cirsium lineare</i>
TIE BANG CHUI	铁棒锤	Pendulous Monkshood	T0122 <i>Aconitum pendulum</i>
TIE DAO MU	铁刀木	Siamese Senna	T1244 <i>Cassia siamea</i>
TIE HAI TANG	铁海棠	Crownofhorns Euphorbia	T2601 <i>Euphorbia milii</i>
TIE JIAO JUE YU TAI	铁角蕨羽苔*		T4992 <i>Plagiochila asplenoides</i>
TIE KUAI ZI	铁筷子	Tibetan Hellebore	T3187 <i>Helleborus thibetanus</i>
TIE LI MU	铁力木	Common Mesua	T4203 <i>Mesua ferrea</i>
TIE PI SHI HU	铁皮石斛	Iron-sheet Denrdobium	T2108 <i>Dendrobium officinale</i>
TIE PO LUO	铁破锣	Marshmarigold-leaved Beesia	T0888 <i>Beesia calthaeifolia</i>
TIE SE JIAN	铁色箭	Orange Lycoris	T3987 <i>Lycoris sanguinea</i>
TIE SHENG QIAN LI GUANG	贴生千里光*	Adnate Groundsel*	T5875 <i>Senecio adnatus</i>
TIE SI QI	铁丝七	American Maidenhair Fern	T0175 <i>Adiantum pedatum</i>
TIE XIAN JUE YE TANG SONG CAO	铁线蕨叶唐松草*	Maidenhair-like Meadowrue*	T6400 <i>Thalictrum minus</i> var. <i>adiantifolium</i>

TIE XIU SE HUANG TAN	铁锈色黄檀	Ferruginous Rosewood*	T2003 <i>Dalbergia ferruginea</i>
TIE ZHOU CAO	铁轴草	Fourfile Germander	T6367 <i>Teucrium quadrifarium</i>
TIE ZI	铁仔	African Myrsine	T4361 <i>Myrsine africana</i>
TING JING BIAN DI JIN	挺茎遍地金	Elodia St.John'swort	T3348 <i>Hypericum elodeoides</i>
TING LI ZI	葶苈子	Pepperweed Seed	T3755 <i>Lepidium apetalum</i> [Syn. <i>Lepidium micranthum</i>]
TING YUAN ZI JIN NIU	庭园紫金牛*	Curtilage Ardisia*	T0596 <i>Ardisia hortorum</i>
TONG BAN CAO	同瓣草	Longflower Laurentia	T3541 <i>Isotoma longiflora</i> [Syn. <i>Laurentia longiflora</i>]
TONG CHUI YU DAI CAO	铜锤玉带草	Common Pratia	T5193 <i>Pratia nummularia</i>
TONG GUANG TENG	通光藤	Tenacious Condorvine	T4120 <i>Marsdenia tenacissima</i>
TONG HAO	茼蒿	Crowndaisy Chrysanthemum	T1390 <i>Chrysanthemum coronarium</i>
TONG HUA GEN	通花根	Ricepaperplant Root	T6356 <i>Tetrapanax papyriferus</i>
TONG JING CAO	通经草	Silvery Aleuritopteris	T0301 <i>Aleuritopteris argentea</i>
TONG LUO HAN	铜罗汉		T4231 <i>Milingtonia hortensis</i>
TONG QIAO SHE GU	筒鞘蛇菰	Involucrate Balanophora	T0859 <i>Balanophora involucrata</i>
TONG SE JI NA SHU	铜色鸡纳树*	Cupreous Cinchona*	T1427 <i>Cinchona cuprea</i>
TONG TUO MU	通脱木	Ricepaperplant	T6357 <i>Tetrapanax papyriferus</i>
TONG XING LIE PIAN HU ZHI ZI	同形裂片胡枝子*	Homoloba Lespedeza*	T3772 <i>Lespedeza homoloba</i>
TONG XU SHOU GONG MU	同序守宫木*	Geckowood	T5748 <i>Sauropus androgynus</i>
TONG YOU	桐油	Tung Oil	T0299 <i>Aleurites cordata</i> [Syn. <i>Aleurites fordii</i>]
TOU GU CAO	透骨草	Tuberculate Speranskia	T6069 <i>Speranskia tuberculata</i>
TOU HUA DU JUAN	头花杜鹃	Capitate Rhododendron	T5504 <i>Rhododendron capitatum</i>
TOU HUA LONG DAN	头花龙胆	Headflower Gentian	T2908 <i>Gentiana cephalantha</i>
TOU MING TANG SONG CAO	透明唐松草*	Lucid Meadowrue*	T6397 <i>Thalictrum lucidum</i>
TOU XU CONG MU	头序榧木	Hairyleaf Aralia	T0570 <i>Aralia dasyphylla</i>
TU BAI BU	土百部	Fernlike Asparagus	T0749 <i>Asparagus filicinus</i>
TU CHUANG HUA	秃疮花	Slenderstalk Dicranostigma	T2162 <i>Dicranostigma franchetianum</i> [Syn. <i>Dicranostigma leptopodium</i>]
TU DANG GUI	土当归	Udo	T0569 <i>Aralia cordata</i>
TU DING GUI	土丁桂	Common Evolvulus	T2649 <i>Evolvulus alsinoides</i>
TU ER FENG	兔耳风	Provincialis Gayfeather*	T3789 <i>Liatris provincialis</i>
TU ER FENG XIE JIA CAO	兔儿风蟹甲草	Ainsliaefolia Calceolaria	T1097 <i>Calceolaria ainsliaeflora</i>
TU ER QI CUI QUE HUA	土耳其翠雀花	Turkish Larkspur*	T2070 <i>Delphinium crispulum</i>
TU ER QI SHU WEI CAO	土耳其鼠尾草	Turkish Sage*	T5668 <i>Salvia cilicica</i>
TU ER QI SI TAN BAI LA SHU	土耳其斯坦白蜡树	Turkestan Ash	T2775 <i>Fraxinus potamophila</i>
TU ER QI SI TAN LONG DAN	土耳其斯坦龙胆*	Turkestan Gentian*	T2939 <i>Gentiana turkestanorum</i>
TU ER QI XUE HUA LIAN	土耳其雪花莲	Turkish Snowdrop*	T2823 <i>Galanthus plicatus</i> ssp. <i>byzantinus</i>
TU ER QI YU JIN XIANG	土耳其郁金香*	Turkey Tulip*	T6565 <i>Tulipa turkestanii</i>
TU ER SAN	兔儿伞	Syneilesis*	T6256 <i>Syneilesis palmata</i>
TU FU LING	土茯苓	Glabrous Greenbrier	T5977 <i>Smilax glabra</i>
TU GEN	吐根	Ipecacuanha	T1315 <i>Cephaelis ipecacuanha</i>
TU GUA LANG DU	土瓜狼毒	Proliferous Euphorbia*	T2612 <i>Euphorbia prolifera</i>
TU HUANG LIAN	土黄连	Wintergreen Barberry	T0906 <i>Berberis julianae</i>
TU JING JIE	土荆芥	Mexican Tea	T1361 <i>Chenopodium ambrosioides</i>
TU JING PI	土荆皮	Chinese Golden Larch	T5256 <i>Pseudolarix amabilis</i> [Syn. <i>Larix amabilis</i> ; <i>Pseudolarix kaempferi</i>]
TU LIAN QIAO	土连翘	Tall Hymenodictyon	T3323 <i>Hymenodictyon excelsum</i>
TU LIANG JIANG	土良姜	Spiked Gingerlily	T3120 <i>Hedychium spicatum</i>
TU MAO DONG QING	秃毛冬青	Glabrous Holly*	T3397 <i>Ilex pubescens</i> var. <i>glaber</i>
TU MU XIANG	土木香	Elecampane Inula	T3431 <i>Inula helenium</i>
TU NIU XI	土牛膝	Common Achyranthes	T0071 <i>Achyranthes aspera</i>

TU QIANG HUO	土羌活	Coronariou Gingerlily	T3118 <i>Hedychium coronarium</i>
TU SAN JIN SI TAO	土三金丝桃	Tutsan	T3338 <i>Hypericum androsaemum</i>
TU SAN QI	土三七	Chrusanthemum-like Groundsel	T5884 <i>Senecio chrysanthemoides</i>
TU SHA REN	土砂仁	Japanese Galangal	T0357 <i>Alpinia japonica</i>
TU SI ZI	菟丝子	Chinese Dodder Seed	T1912 <i>Cuscuta chinensis</i>
TU XIANG RU	土香薷	Common Origanum	T4526 <i>Origanum vulgare</i>
TU YAN HU	土延胡	Repent Corydalis*	T1736 <i>Corydalis repens</i> var. <i>humosides</i>
TU YE HUANG PI SHU	秃叶黄皮树	Glabrousleaf Chinese Corktree	T4792 <i>Phellodendron chinense</i> var. <i>glabriusculum</i>
TUAN HUA SHAN FAN	团花山矾	Glomerule Sweetleaf	T6253 <i>Symplocos glomerata</i>
TUAN JI AI NA XIANG	团集艾纳香*	Glomerate Blumea*	T0958 <i>Blumea glomerata</i>
TUE YUAN MI ZI LAN	椭圆米仔兰*	Elliptic Aglaia*	T0234 <i>Aglaia elliptica</i>
TUI RE ZHI XIE MU	退热止泻木	Febrifuge Holarrhena*	T3265 <i>Holarrhena febrifuga</i>
TUN CAO	豚草	Common Ragweed	T0398 <i>Ambrosia artemisiifolia</i>
TUN CAO QIAN LI GUANG	豚草千里光*	Ragweed Groundsel*	T5879 <i>Senecio ambrosioides</i>
TUN CAO ZI WAN	豚草紫菀	Upland White Aster	T0780 <i>Aster ptarmicoides</i>
TUN XING GUO	臀形果	Topeng Pygeum	T5340 <i>Pygeum topengii</i>
TUO YE ZHU SHI DOU	托叶猪屎豆*	Stipular Crotalaria*	T1835 <i>Crotalaria stipularia</i>
TUO YUAN DUO TAN CAO	椭圆多坦草		T2248 <i>Dorstenia elliptica</i>
TUO YUAN GOU TENG	椭圆钩藤	Elliptic Gambirplant*	T6614 <i>Uncaria elliptica</i>
TUO YUAN SAN QI CAO	椭圆三七草*	Elliptic Gynura*	T3087 <i>Gynura elliptica</i>
TUO YUAN YE HUA JIAO	椭圆叶花椒	Ellipticleaf Pricklyash*	T6885 <i>Zanthoxylum ovalifolium</i>
TUO YUAN YE RU XIANG SHU	椭圆叶乳香树*	Ellipticleaf Olibanum*	T0995 <i>Boswellia ovalifoliolata</i>
TUO YUAN ZHOU XING ZAO	椭圆舟形藻	Ellipse Navicula*	T4394 <i>Navicula delognei</i> f. <i>elliptica</i>
WA BU BEI MU	瓦布贝母	Wabu Fritillary*	T2799 <i>Fritillaria wabuensis</i>
WA ER TENG	娃儿藤	Manyflower Tylophora	T6580 <i>Tylophora floribunda</i>
WA LI XI HUANG YANG	瓦利希黄杨	Himalayan Box	T1095 <i>Buxus wallichiana</i>
WA SHI DU HUO	瓦氏独活	Wallich Cowparsnip*	T3227 <i>Heracleum wallichii</i>
WA SHI MA WEI ZAO	瓦氏马尾藻	Vachelli Gulfweed*	T5740 <i>Sargassum vachellianum</i>
WA SHI XIAO BO	瓦氏小檗*	Valdiv Barberry	T0918 <i>Berberis valdiviana</i>
WA SHI ZONG LV	瓦氏棕榈	Wagner Windmill Palm	T6486 <i>Trachycarpus wagnerianus</i>
WA SI YA NA SAN CHI HAO	瓦斯亚那三齿蒿	Vaseyana Big Sagebrush*	T0703 <i>Artemisia tridentata</i> ssp. <i>vaseyana</i>
WA WEI	瓦韦	Thunberg's Lepisorus	T3764 <i>Lepisorus thunbergianus</i>
WAI JUAN TANG SONG CAO	外卷唐松草	Waxy Meadowrue	T6406 <i>Thalictrum revolutum</i>
WAI LAI CAI ZONG	外来菜棕*		T5636 <i>Sabal peregriana</i>
WAN DOU	豌豆	Garden Pea	T4983 <i>Pisum sativum</i>
WAN E JIN SI TAO	弯萼金丝桃	Curvedsepal St. John'swort	T3345 <i>Hypericum curvisepalum</i>
WAN HUA ZE LAN	晚花泽兰*	Late-flower Boneset	T2575 <i>Eupatorium serotinum</i>
WAN JUE	碗蕨	Scabrous Boulder Fern	T2113 <i>Dennstaedtia scabra</i> [Syn. <i>Dicksonia scabra</i>]
WAN NIAN QING GEN	万年青根	Omoto Nipponlily Root	T5557 <i>Rohdea japonica</i> [Syn. <i>Orontium japonicum</i>]
WAN QU QIAN LI GUANG	弯曲千里光*	Retrorse Groundsel*	T5902 <i>Senecio retrorsus</i>
WAN QU TIAN MEN DONG	弯曲天门冬*	curillus Asparagus*	T0747 <i>Asparagus curillus</i>
WAN QU TIAN NAN XING	弯曲天南星	Curvatura Jackinthepulpit*	T0619 <i>Arisaema curvatum</i>
WAN QU ZHI YE TAI	弯曲指叶苔*		T3762 <i>Lepidozia incurvata</i>
WAN RUI KAI KOU JIAN	弯蕊开口箭	Watt Tupistra	T6567 <i>Tupistra wattii</i> [Syn. <i>Campylandra wattii</i>]
WAN SHAN YIN YANG HUO	万山淫羊藿	Wanshan Epimedium	T2405 <i>Epimedium wanshanense</i>
WAN SHENG BAI BU	蔓生百部	Japanese Stemona	T6111 <i>Stemona japonica</i>
WAN SHENG BAI WEI	蔓生白薇	Versicolorous Mosquitotrap	T1962 <i>Cynanchum versicolor</i>
WAN SHOU JU	万寿菊	Aztec Marigold	T6278 <i>Tagetes erecta</i>
WAN SHOU JU YE	万寿菊叶	Aztec Marigold Leaf	T6279 <i>Tagetes erecta</i>
WAN TAO HUA ZI	万桃花子	Jimsonweed Seed*	T2047 <i>Datura stramonium</i>

WAN XIANG YU	晚香玉	Tuberose	T5061 <i>Polianthes tuberosa</i>
WAN YAN BAN JIU JU	蜿蜒斑鸠菊	Flexuous Bitterleaf*	T6717 <i>Vernonia flexuosa</i>
WAN YAN HUANG QI	蜿蜒黄芪*	Flexuous Milkvetch *	T0796 <i>Astragalus flexuosus</i>
WAN YAN XIANG MAO	蜿蜒香茅	Flexuous Lemongrass*	T1942 <i>Cymbopogon flexuosus</i>
WAN ZHUI XIANG CHA CAI	弯锥香茶菜	Bowedconical Rabdosia*	T3509 <i>Isodon loxothyrsa</i>
WAN ZHUO WU TOU	万啄乌头	Curvebeak Monkshood	T0082 <i>Aconitum campylorrhynchum</i>
WANG BU LIU XING	王不留行	Cowherb	T6668 <i>Vaccaria segetalis</i> [Syn. <i>Vaccaria pyramidata</i>]
WANG CHUN YU LAN	望春玉兰	Biond Magnolia	T4035 <i>Magnolia biondii</i> [Syn. <i>Magnolia fargesii</i>]
WANG DI ZAO	网地藻		T2169 <i>Dictyota dichotoma</i>
WANG GUA	王瓜	Japanese Snakegourd	T6507 <i>Trichosanthes cucumeroides</i>
WANG GUA ZI	王瓜子	Japanese Snakegourd Seed	T6508 <i>Trichosanthes cucumeroides</i>
WANG GUO CUI QUE HUA	网果翠雀花	Reticulatefruit Larkspur	T2072 <i>Delphinium dictyocarpum</i>
WANG JIANG NAN	望江南	Coffee Senna	T1241 <i>Cassia occidentalis</i>
WANG JIANG NAN ZI	望江南子	Coffee Senna Seed	T1242 <i>Cassia occidentalis</i>
WANG MAI TOU WU	网脉囊吾	Netvein Goldenray	T3803 <i>Ligularia dictyoneura</i> [Syn. <i>Senecio dictyoneurus</i>]
WANG SUN	王孙	Tetraphyllous Paris	T4655 <i>Paris tetraphylla</i>
WEI BAI BAI JIAN MU	微白白坚木*	Microwhite White Quebracho*	T0775 <i>Aspidosperma subincanum</i>
WEI DUO LI YA JIN HE HUAN	维多利亚金合欢*	Bramble Acacia	T0034 <i>Acacia victoria</i>
WEI ER SHI LV RONG HAO	威尔士绿绒蒿	Welsh Poppy	T4142 <i>Meconopsis cambrica</i>
WEI GAN JU	薇甘菊	Climbing Hempweed	T4230 <i>Mikania scandens</i>
WEI GAN JU ZE LAN	薇甘菊泽兰	Mikanioid Eupatorium*	T2566 <i>Eupatorium mikanioides</i>
WEI JING BAI HE	葶茎百合	<i>Schoenocoulon officinale</i>	T5808 <i>Schoenocaulon officinale</i>
WEI KONG CAO	微孔草	Sikkim Microula	T4227 <i>Microula sikkimensis</i>
WEI LAN QIU GUO ZI JIN	维兰球果紫堇	Few-flowered Fumitory	T2810 <i>Fumaria vaillantii</i>
WEI LIAN SI SHI MU	威廉斯氏木		T5941 <i>Sickingia williamsii</i>
WEI LING CAI	委陵菜	Chinese Cinquefoil	T5181 <i>Potentilla chinensis</i>
WEI LING XIAN	威灵仙	Chinese Clematis	T1545 <i>Clematis chinensis</i>
WEI MAO DUI XIN JU	微毛堆心菊*	Puberulent Sneezeweed*	T3140 <i>Helenium puberulum</i>
WEI MAO HE ZI	微毛诃子	<i>Terminalia chebula</i> var. <i>tomentella</i>	T6348 <i>Terminalia chebula</i> var. <i>tomentella</i>
WEI NAO	猬脑	Hedgehog Brain	T2427 <i>Erinaceus europaeus</i> ; <i>Hemiechinus dauuricus</i> ; <i>Hemiechinus auritus</i>
WEI RUI LI	味瑞李	Verecun Plum*	T5245 <i>Prunus verecunda</i>
WEI SHI DA FENG ZI	韦氏大风子	Wightiana Chaulmoogratree Seed*	T3301 <i>Hydnocarpus wightiana</i>
WEI SHI SHU WEI CAO	威氏鼠尾草		T5700 <i>Salvia wiedemanni</i>
WEI SUI XIAN	尾穗苋	Love-lies-bleeding	T0387 <i>Amaranthus caudatus</i>
WEI XI XIANG CHA CAI	维西香茶菜	Weisi Rabdosia	T3534 <i>Isodon weisiensis</i>
WEI XIAO WAN SHOU JU	微小万寿菊*	Southern Marigold	T6281 <i>Tagetes minuta</i>
WEI XIN GAN	猬心肝	Hedgehog Heart and Liver	T2428 <i>Erinaceus europaeus</i> ; <i>Hemiechinus dauuricus</i> ; <i>Hemiechinus auritus</i>
WEI YE BAI ZHU	尾叶白珠	Long Acuminate Leaves Gaultheria	T2892 <i>Gaultheria griffithiana</i>
WEI YE XI ZI JUE	尾叶稀子蕨	Tail-leaf Monachosorum	T4267 <i>Monachosorum flagellare</i>
WEI YE XIANG CHA CAI	尾叶香茶菜	Taillikeleaf Rabdosia	T5392 <i>Rabdosia excisa</i>
WEI YI MU CAO	胃益母草	Stomach Motherwort	T3750 <i>Leonurus cardiaca</i>
WEN CHUAN CHAI HU	汶川柴胡	Wenchuan Thorowax*	T1078 <i>Bupleurum wenchuanense</i>
WEN DAN YOU	文旦柚	Buntan Pummelo*	T1481 <i>Citrus grandis</i> f. <i>buntan</i>
WEN GUAN MU	文冠木	Shinyleaf yellowhorn	T6845 <i>Xanthoceras sorbifolia</i>
WEN JING	问荆	Bottle-brush	T2407 <i>Equisetum arvense</i>
WEN PO	檯梔	Common Quince	T1937 <i>Cydonia oblonga</i>
WEN ROU ZHI XIE MU	温柔止泻木	Suave Holarrhena*	T3267 <i>Holarrhena mitis</i>
WEN SHU LAN	文殊兰	Chinese Crinum	T1796 <i>Crinum asiaticum</i> var. <i>sinicum</i>

WEN TE XIANG MAO	文特香茅	Winter Lemongrass*	T1948 <i>Cymbopogon winterianus</i>
WEN YU JIN	温郁金(片姜黄)	Wengujin Culcuma*	T1907 <i>Curcuma wengujin</i>
WEN ZHU	文竹	Setose Asparagus	T0753 <i>Asparagus setaceus</i> [Syn. <i>Asparagus plumosus</i>]
WENG CAI	蕹菜	Aquatic Morning Glory	T3444 <i>Ipomoea aquatica</i> [Syn. <i>Convolvulus repens</i> ; <i>Ipomoea reptans</i>]
WO ER QI	窝儿七	Chinese Umbrellaleaf	T2232 <i>Diphylleia sinensis</i>
WO JING YE LAI XIANG	卧茎夜来香	Creeping Telosma	T6329 <i>Telosma procumbens</i>
WO JU	莴苣	Garden Lettuce	T3662 <i>Lactuca sativa</i>
WO LI HE GUAN BAN	沃利赫冠瓣	Wallich Crestpetal-tree	T3922 <i>Lophopetalum wallichii</i>
WO SHI AN	沃氏桉*	Wandoo Eucalyptus*	T2523 <i>Eucalyptus wandoo</i>
WO SHI ZHI XIE MU	沃氏止泻木*	Waltsberg Holarrhena*	T3269 <i>Holarrhena waltsbergii</i>
WU BING TANG SONG CAO	无柄唐松草*	Javan Meadowrue	T6408 <i>Thalictrum sessile</i>
WU BING XIN WU TAN	无柄新乌檀	Sessile Neonauclea	T4408 <i>Neonauclea sessilifolia</i> [Syn. <i>Nauclea sessilifolia</i> ; <i>Adina sessilifolia</i>]
WU BING YE AN	无柄叶桉*	Non-stipe Eucalyptus*	T2500 <i>Eucalyptus apodophylla</i>
WU CI FAN MA	无刺番麻	Spineless Agave	T0216 <i>Agave americana</i> var. <i>marginata</i> [Syn. <i>Agave americana</i> var. <i>variegata</i>]
WU CI KE YA SHU	无刺柯桉树	Angelin-tree	T0452 <i>Andira inermis</i>
WU CI MAO ZHU MU	无刺帽柱木	Spineless Mitragyna*	T4256 <i>Mitragyna inermis</i>
WU CI ZAO	无刺枣	Spineless Common Jujube	T6917 <i>Ziziphus jujuba</i> var. <i>inermis</i>
WU CI ZHU YING HUA	无刺朱缨花*	Spineless Powderpuff*	T1115 <i>Calliandra inermis</i>
WU DANG MU LAN	武当木兰	Sprenger Magnolia	T4052 <i>Magnolia sprengeri</i>
WU FU HUA	五福花	Muskroot	T0193 <i>Adoxa moschatellina</i>
WU GAN DA YU YE QIU	乌干达羽叶楸	Uganda Padritree*	T6141 <i>Stereospermum kunthianum</i>
WU GENG WU JIA PI	无梗五加皮	Sessileflower Acanthopanax Root-bark	T0044 <i>Acanthopanax sessiliflorus</i>
WU GONG	蜈蚣	Centipede	T5817 <i>Scolopendra subspinipes mutilans</i>
WU GONG CAO	蜈蚣草	Chinese Brake	T5298 <i>Pteris vittata</i>
WU GONG ZHANG	蜈蚣掌	Arborescent Aloe*	T0334 <i>Aloe arborescens</i> var. <i>natalensis</i>
WU HE MI JU	无核蜜桔	Satsuma	T1518 <i>Citrus unshiu</i>
WU HUA GUO	无花果	Fig	T2717 <i>Ficus carica</i>
WU HUA GUO YE	无花果叶	Fig Leaf	T2718 <i>Ficus carica</i>
WU HUAN ZI	无患子	Chinese Soapberry Seed	T5719 <i>Sapindus mukorossi</i>
WU HUAN ZI PI	无患子皮	Chinese Soapberry Peel	T5720 <i>Sapindus mukorossi</i>
WU HUAN ZI YE	无患子叶	Chinese Soapberry Leaf	T5721 <i>Sapindus mukorossi</i>
WU JIA PI	五加皮	Slenderstyle Acanthopanax Root-bark	T0038 <i>Acanthopanax gracilistylus</i>
WU JIA QIAN HU	五加前胡		T6103 <i>Steganotaenia araliacea</i>
WU JING GAN LAN	芜菁甘蓝	Swede Seed	T1010 <i>Brassica napus</i> var. <i>napobrassica</i>
WU JIU MU GEN PI	乌柏木根皮	Chinese Tallowtree Bark	T5723 <i>Sapium sebiferum</i>
WU JIU YE	乌柏叶	Chinese Tallowtree Leaf	T5724 <i>Sapium sebiferum</i>
WU JU LOU DOU CAI	无距楼斗菜	Spurless Columbine	T0557 <i>Aquilegia ecalcarata</i>
WU JU YIN YANG HUO	无距淫羊藿	Spurless Barrenwort*	T2393 <i>Epimedium ecalcaratum</i>
WU JUAN XU XI GUA	无卷须西瓜	Non-cirrose Citrullus*	T1461 <i>Citrullus ecirrhosus</i>
WU KE LAN XIA YE SHUI XIAN	乌克兰狭叶水仙	Ukrainian Narrowleaf Narcissus*	T4373 <i>Narcissus angustifolius</i>
WU LA ER DI YI	乌拉尔地衣	Ural's Lichen	T6603 <i>Umbilicaria proboscidea</i>
WU LENG JUE MING	五棱决明	Fiveangular Senna*	T1243 <i>Cassia quinquangula</i>
WU LI	乌鳢	Serpent-head	T4505 <i>Ophiocephalus argus</i>
WU LIAN MEI	乌藟莓	Japanese Cayratia	T1275 <i>Cayratia japonica</i>
WU LING ZHI	五灵脂	Trogopterus Dung	T6551 <i>Trogopterus xanthipes</i> ; <i>Pteromys volans</i>
WU LONG CHA	乌龙茶	Oolong Tea	T1155 <i>Camellia sinensis</i> var. <i>viridis</i>
WU LOU ZI	无漏子	Phoenix Date	T4820 <i>Phoenix dactylifera</i>
WU MAI BAI LI XIANG	五脉百里香	Fiveribbed Thyme	T6450 <i>Thymus quinquecostatus</i>
WU MAO CHAN GAO SHU	无毛潺槁树	Glabrous Litsea*	T3888 <i>Litsea glutinosa</i> var. <i>glabrata</i>

WU MAO FENG CHE ZI	无毛风车子	Glabrous Combretum*	T1631 <i>Combretum imberbe</i>
WU MAO HAO	无毛蒿	Glabrous Wormwood*	T0677 <i>Artemisia glabella</i>
WU MAO JUE	乌毛蕨	Oriental Blechnum Frond	T0952 <i>Blechnum orientale</i>
WU MAO SHAN ZHA	无毛山楂	Hairless Chinese Hawthorn	T1779 <i>Crataegus pinnatifida</i> var. <i>psilosa</i>
WU MAO WU GEN TENG	无毛无根藤*	Glabrous Cassytha*	T1252 <i>Cassytha glabella</i>
WU MEI	乌梅	Japanese Apricot	T5228 <i>Prunus mume</i>
WU MO	乌墨		T2533 <i>Eugenia jambolana</i> [Syn. <i>Syzygium cumin</i> ; <i>Myrtus cumini</i>]
WU MU XIE	乌木屑	Ceylon Persimmon Sawdust	T2216 <i>Diospyros ebenum</i>
WU PAO ZI	乌泡子	Parker Raspberry	T5594 <i>Rubus parkeri</i>
WU QING	芜菁	Turnip	T1021 <i>Brassica rapa</i>
WU SE MEI	五色梅	Common Lantana	T3687 <i>Lantana camara</i>
WU SHAN YIN YANG HUO	巫山淫羊藿	Wushan Epimedium	T2406 <i>Epimedium wushanense</i>
WU SHI REN DONG	五室忍冬*	Five-room Honeysuckle*	T3917 <i>Lonicera quinquelocularis</i>
WU SU LI LI LU	乌苏里藜芦	Ussuri Falsehellebore	T6699 <i>Veratrum nigrum</i> var. <i>ussuriense</i>
WU SU LI WA WEI	乌苏里瓦韦	Ussuri Lepisorus	T3765 <i>Lepisorus ussuriensis</i>
WU TONG BAI PI	梧桐白皮	Phoenix Tree Bast	T2731 <i>Firmiana simplex</i>
WU TONG YE	梧桐叶	Phoenix Tree Leaf	T2732 <i>Firmiana simplex</i>
WU TONG ZI	梧桐子	Phoenix Tree Seed	T2733 <i>Firmiana simplex</i>
WU TOU	乌头(川乌)	Common Monkshood	T0084 <i>Aconitum carmichaeli</i>
WU WEI CAO	五味草	Tali Corydalis	T1746 <i>Corydalis taliensis</i>
WU WEI ZI	五味子(北五味子)	Chinese Magnoliavine	T5791 <i>Schisandra chinensis</i>
WU WEN ZI BEI TAI	无纹紫背苔	Intermediate Plagiochasma	T4989 <i>Plagiochasma intermedium</i>
WU XIN SHI	乌心石	Formosan Michelia*	T4211 <i>Michelia compressa</i> var. <i>formosana</i>
WU XIONG RUI JI LI	五雄蕊蒺藜*	Penta-androus Caltrap*	T6496 <i>Tribulus pentandrus</i>
WU YA GUO	五椴果	Hondapara	T2181 <i>Dillenia indica</i>
WU YAO	乌药	Combined Spicebush	T3854 <i>Lindera strychnifolia</i> [Syn. <i>Lindera aggregata</i>]
WU YE BAI QIAN	无叶白前*	Leafless Swallowwort*	T1949 <i>Cynanchum aphyllum</i>
WU YE GUA TENG	五叶瓜藤	Farges Holboellia	T3270 <i>Holboellia fargesii</i>
WU YE JIA MU ZEI	无叶假木贼	Leafless Anabasis	T0435 <i>Anabasis aphylla</i>
WU YE TENG	无爷藤	Filiform Cassytha	T1251 <i>Cassytha filiformis</i>
WU YE YU HUANG CAO	五叶鱼黄草*	Five-leaf Merremia*	T4198 <i>Merremia quinquefolia</i>
WU YE ZHU SHI DOU	五叶猪屎豆*	Fiveleaf Crotalaria*	T1829 <i>Crotalaria quinquefolia</i>
WU YUE CHA	五月茶	Bignay Chinalaurel	T0535 <i>Antidesma bunius</i>
WU ZHAO LONG	五爪龙	Cairo Morningglory	T3448 <i>Ipomoea cairica</i> [Syn. <i>Ipomoea palmata</i>]
WU ZHU FEI YAN CAO	五柱飞燕草	Fivestyle Larkspur*	T2083 <i>Delphinium pentagynum</i>
WU ZHU MAI DA JI	五主脉大戟*		T2615 <i>Euphorbia quinquecostata</i>
WU ZHU YU	吴茱萸	Medicinal Evodia	T2644 <i>Evodia rutaecarpa</i>
WULU BA DOU	乌鲁巴豆	Wru Croton*	T1860 <i>Croton urucurana</i>
XI A LA HUANG TAN	西阿拉黄檀	Cearan Rosewood*	T1998 <i>Dalbergia cearensis</i>
XI BAN WU TOU	膝瓣乌头	Geniculate Monkshood	T0098 <i>Aconitum geniculatum</i>
XI BAN YA HUANG YANG	西班牙黄杨	Balearic Box	T1086 <i>Buxus balearica</i>
XI BAN YA YUN XIANG CAO	西班牙芸香草	Spanish Haplophyllum*	T3102 <i>Haplophyllum hispanicum</i>
XI BEI MU	西贝母	Crown Imperial	T2788 <i>Fritillaria imperialis</i>
XI BING MU JIANG ZI	细柄木姜子*	Slenderstalk Litsea*	T3889 <i>Litsea gracilipes</i>
XI BING SHI DA GONG LAO	细柄十大功劳	Subtriplinerved Mahonia	T4064 <i>Mahonia gracilipes</i>
XI BING SHU YU	细柄薯蓣	Thinstiped Yam	T2211 <i>Dioscorea tenuipes</i>
XI BO DE QI MU	西博德杞木*	Siebold Alder*	T0331 <i>Alnus sieboldiana</i>
XI BO JIN HE HUAN	西博金合欢*	Sieber Acacia*	T0029 <i>Acacia sieberiana</i>
XI BO JUE MING	西博决明	Sieber Senna	T1245 <i>Cassia sieberiana</i>
XI BO LI YA HONG SONG	西伯利亚红松	Siberian Stone Pine	T4923 <i>Pinus sibirica</i>
XI BO LI YA LENG SHAN	西伯利亚冷杉	Siberian Fir	T0007 <i>Abies sibirica</i>

XI BO LI YA LIAO ^{yn}	西伯利亚蓼	Siberian Knotweed*	T5115 <i>Polygonum sibiricum</i> [Syn. <i>Persicaria sibirica</i>]
XI BO LI YA TOU WU	西伯利亚橐吾	Siberian Goldenray	T3813 <i>Ligularia sibirica</i>
XI BO LI YA YUAN ZHI	西伯利亚远志	Siberian Milkwort	T5086 <i>Polygala sibirica</i>
XI BO LI YA YUN SHAN	西伯利亚云杉	Siberian Spruce	T4875 <i>Picea obovata</i>
XI BO SHI WEI MAO	西博氏卫矛	Seibo Euonymus*	T2547 <i>Euonymus sieboldianus</i>
XI CHANG NAN MEI DOU	细长南美豆		T0439 <i>Anadenanthera colubrine</i>
XI DIAN ZHANG YA CAI	细点獐牙菜	Punctate Swertia*	T6233 <i>Swertia punctata</i>
XI FAN LIAN	西番莲	Passionflower	T4663 <i>Passiflora caerulea</i>
XI FANG CANG ER	西方苍耳*	Occidental Cocklebur*	T6839 <i>Xanthium occidentale</i>
XI FANG CI BAI	西方刺柏*	Western Juniper	T3591 <i>Juniperus occidentalis</i>
XI FANG CUI QUE	西方翠雀	Occidental Larkspur*	T2080 <i>Delphinium occidentale</i>
XI FEI HONG DOU SHU	西非红豆树	West Africa Afrosmosia	T0208 <i>Afrosmosia elata</i>
XI FEI LI ZHI GUO	西非荔枝果	Akee	T0956 <i>Blighia sapida</i>
XI FEI YANG JIAO AO	西非羊角拗	Senegalese Strophanthus*	T6159 <i>Strophanthus sarmentosus</i> var. <i>senegambiae</i>
XI GENG XIANG CAO	细梗香草	Hairydtalk Loosestrife	T3997 <i>Lysimachia capillipes</i>
XI GUA	西瓜	Watermelon	T1464 <i>Citrullus vulgaris</i> [Syn. <i>Citrullus lanatus</i>]
XI GUA ZI REN	西瓜籽仁	Watermelon Seed	T1465 <i>Citrullus vulgaris</i> [Syn. <i>Citrullus lanatus</i>]
XI GUO JIAO HUI XIANG	细果角茴香	Thinfruit Hypecoum	T3334 <i>Hypecoum leptocarpum</i>
XI HU LU	西葫芦	Pumpkin	T1882 <i>Cucurbita pepo</i>
XI HUA DIAN ZI CAO	细花滇紫草	Hooker Onosma	T4499 <i>Onosma hookeri</i>
XI HUA HAN XIU CAO	细花含羞草	Smallflower Mimosa*	T4250 <i>Mimosa tenuiflora</i>
XI HUA XIAN WEN XIANG CHA CAI	细花线纹香茶菜	Linearstripe Rabdosia	T3507 <i>Isodon lophanthoides</i> [Syn. <i>Rabdosia lophanthoides</i> ; <i>Hyssopus lophanthoides</i> ; <i>Plectranthus striatus</i> ; <i>Isodon striatus</i>]
XI HUA XUE DAN	细花雪胆	Smallflower Hemsleya	T3207 <i>Hemsleya graciliflora</i> [Syn. <i>Alsomitra graciliflora</i>]
XI HUANG CAO	溪黄草	Serrate Rabdosia	T5397 <i>Rabdosia serra</i>
XI JIAO	犀角	Rhinoceros Horn	T5484 <i>Rhinoceros unicornis</i> ; <i>Rhinoceros sondaicus</i> ; <i>Rhinoceros sumatrensis</i>
XI JIN SHI DA GONG LAO	锡金十大功劳	Sikkim Mahonia	T4073 <i>Mahonia sikkimensis</i>
XI JING SHI HU	细茎石斛	Moliniiform Dendrobium*	T2106 <i>Dendrobium moniliforme</i>
XI JUAN YA CONG	细卷鸦葱	Scorzonera	T5824 <i>Scorzonera hispanica</i>
XI LA GANG LIU	希腊杠柳	Grecian Silkvine	T4727 <i>Periploca graeca</i>
XI LA SHI CAO	希腊蓍草	Greek Yarrow	T0058 <i>Achillea ageratifolia</i>
XI LA SI MAO SHI	希腊丝毛蓍	Greek Silk-hair Yarrow*	T0063 <i>Achillea holosericea</i>
XI LAN GU KE	锡兰古柯*	Ceylon Coca Shrub*	T2493 <i>Erythroxylum zeylanicum</i>
XI LAN ROU GUI	锡兰肉桂	Ceylon Cinnamon	T1445 <i>Cinnamomum zeylanicum</i>
XI LIU ZHU YANG YANG	溪流猪殃殃*	River Bedstraw*	T2833 <i>Galium rivale</i>
XI LUO HAN SONG	西罗汉松	Musengerra Podocarpus	T5039 <i>Podocarpus gracilior</i>
XI MA BAI LA SHU	喜马白蜡树	Manyflower Ash	T2769 <i>Fraxinus floribunda</i>
XI MA DU WEI CAO	喜马独尾草	Himalayan Desertcandle	T2414 <i>Eremurus himalaicus</i>
XI MA HONG JING TIAN	喜马红景天	Himalaya Rhodiola	T5495 <i>Rhodiola himalansis</i>
XI MA LA YA HONG DOU SHAN	喜马拉雅红豆杉	Himalayan Yew	T6317 <i>Taxus wallichiana</i>
XI MA LA YA YUAN WEI	喜马拉雅鸢尾	Himalayan Iris*	T3463 <i>Iris kumaonensis</i>
XI MA LA YA YUAN ZHI	喜马拉雅远志	Himalayan Milkwort*	T5074 <i>Polygala emodi</i>
XI MA XUAN FU HUA	喜马旋覆花	Himalayan Inula	T3438 <i>Inula royleana</i>
XI MAI FU PING	稀脉浮萍	Minute Duckweed	T3739 <i>Lemna perpusilla</i>
XI MEN FEI CAO	西门肺草	Comfrey	T6246 <i>Symphytum officinale</i>
XI MENG SI SHI DA GONG LAO	西蒙斯十大功劳	Simons Mahonia	T4074 <i>Mahonia simonsii</i>

XI MING	蕺冥	Boor's Mustard	T6436 <i>Thlaspi arvense</i>
XI MING ZI	蕺冥子	Boor's Mustard Seed	T6437 <i>Thlaspi arvense</i>
XI NAN BA QIA	西南菝葜	<i>Smilax bockii</i>	T5975 <i>Smilax bockii</i>
XI NAN GANG LIU	西南杠柳	Forrest Silkvine	T4726 <i>Periploca forrestii</i>
XI NAN MAO WEI SHU	西南猫尾树	Stipulate Dolichandrone	T2245 <i>Dolichandrone stipulata</i>
XI NAN REN DONG	西南忍冬	South-western Honeysuckle	T3908 <i>Lonicera bournei</i>
XI NAN SHI WEI	西南石韦	Stilted Pyrrosia	T5356 <i>Pyrrosia gralla</i>
XI NAN WEN SHU LAN	西南文殊兰	Broadleaf Crinum	T1799 <i>Crinum latifolium</i>
XI NAN ZHANG YA CAI	西南獐牙菜	Surrounded Swertia	T6216 <i>Swertia cincta</i>
XI NANG MA WEI ZAO	细囊马尾藻	Parvivesiculose Gulfweed*	T5739 <i>Sargassum parvivesiculosum</i>
XI OU YUAN WEI	西欧鸢尾	Orris	T3458 <i>Iris florentina</i>
XI PA JING TIAN	西帕景天*	Cepaea Stonecrop*	T5853 <i>Sedum cepaea</i>
XI QIAN LI GUANG	溪千里光	Rivulet Groundsel*	T5904 <i>Senecio rivularis</i>
XI QUE MEI TENG	细雀梅藤	Thin Sageretia	T5644 <i>Sageretia gracilis</i>
XI SHAN CUI QUE	喜山翠雀*	Montane Larkspur	T2082 <i>Delphinium oreophilum</i>
XI SHEN SHAN ZI JIN	细深山紫堇	Tenuous Corydalis*	T1732 <i>Corydalis pallida</i> var. <i>tenuis</i>
XI SHENG TENG	锡生藤	Common Cissampelos	T1452 <i>Cissampelos pareira</i>
XI SHI HUI MAO DOU	希氏灰毛豆*	Hildebrandt Tephrosia*	T6336 <i>Tephrosia hildebrandtii</i>
XI SHU	喜树	Common Camptotheca	T1162 <i>Camptotheca acuminata</i>
XI SHU MU BAN SHU	稀疏木瓣树	Discrete Xylopia*	T6853 <i>Xylopia discreta</i>
XI SHU QIE	稀疏茄*	Lax Nightshade*	T6004 <i>Solanum laxum</i>
XI SHUAI	蟋蟀	Chinese Cricket	T3066 <i>Gryllus chinensis</i>
XI SI GUO XIANG CHA CAI	西四国香茶菜	West-Shiko Rabdosia*	T3527 <i>Isodon shikokiana</i> var. <i>occidentalis</i>
XI TAI	溪苔		T4695 <i>Pellia epiphylla</i>
XI TE KA YUN SHAN	西特喀云杉	Sitka Spruce	T4876 <i>Picea sitchensis</i>
XI XI LI CAO MU XI	西西里草木犀	Messania Sweetclover*	T4171 <i>Melilotus messanensis</i>
XI XI LI QI SHU	西西里漆树	Sumach	T5532 <i>Rhus coriaria</i>
XI XIAN	豨薟	Common St. Paulswort	T5950 <i>Siegesbeckia orientalis</i>
XI XIANG CONG	细香葱	Chive-like	T0319 <i>Allium schoenoprasum</i>
XI XIAO CHANG CHUN HUA	细小长春花	Slender Periwinkle*	T1270 <i>Catharanthus pusillus</i>
XI XIAO HE BAO MU DAN	细小荷包牡丹	Little Bleedingheart*	T2153 <i>Dicentra pusilla</i>
XI XIAO LUO ZAO	细小裸藻		T2535 <i>Euglena gracilis</i>
XI XIN	细辛	Siebold Wildginger	T0731 <i>Asarum sieboldii</i>
XI XIN YE QIAN NIU	细辛叶牵牛*	Wildginger-leaf Morning Glory*	T3446 <i>Ipomoea asarifolia</i>
XI YAN YUAN WEI	喜盐鸢尾	Salt-loving Iris	T3460 <i>Iris halophila</i>
XI YANG HONG	西洋红	Scarlet Sage	T5693 <i>Salvia splendens</i>
XI YANG JIE GU MU	西洋接骨木	Black Elder	T5704 <i>Sambucus nigra</i>
XI YANG LI	西洋梨	Common Pear	T5364 <i>Pyrus communis</i>
XI YANG SHEN	西洋参	American Ginseng	T4610 <i>Panax quinquefolium</i>
XI YANG SHEN JING YE	西洋参茎叶	American Ginseng Stem-leaf	T4611 <i>Panax quinquefolium</i>
XI YE AN YE	细叶桉叶	Forest Gray Gum Leaf	T2521 <i>Eucalyptus tereticornis</i>
XI YE BAI HE	细叶百合	Low Lily	T3836 <i>Lilium pumilum</i> [Syn. <i>Lilium tenuifolium</i>]
XI YE DA JI	细叶大戟	Narrowleaf Euphorbia	T2586 <i>Euphorbia esula</i> var. <i>cyparissoides</i>
XI YE DUI XIN JU	细叶堆心菊	Fine-leaved Sneezeweed	T3141 <i>Helenium tenuifolium</i>
XI YE GONG LAO MU	细叶功劳木	Chinese Mahonia	T4062 <i>Mahonia fortunei</i>
XI YE GONG LAO YE	细叶功劳叶	Chinese Mahonia Leaf	T4063 <i>Mahonia fortunei</i>
XI YE HUANG YANG	细叶黄杨	Harland Box	T1088 <i>Buxus harlandii</i>
XI YE SHE BIAN JU	细叶蛇鞭菊	Fine-leaved Gay-feather*	T3795 <i>Liatris tenuifolia</i>
XI YE SHI	细叶蓍	Fine-leaved Yarrow	T0064 <i>Achillea leptophylla</i>
XI YE SHUI TUAN HUA	细叶水团花	Thinleaf Adina	T0181 <i>Adina rubella</i>
XI YE TENG	锡叶藤	Asian Tetracera	T6353 <i>Tetracera asiatica</i>
XI YE TIE XIAN JUE	细叶铁线蕨	Venus Maidenhair	T0179 <i>Adiantum venustum</i>
XI YE XIAO BO	细叶小檗	Poiret Barberry	T0912 <i>Berberis poiretii</i>

XI YE YI MU CAO	细叶益母草	Siberian Motherwort	T3754 <i>Leonurus sibiricus</i>
XI YE ZHU SHI DOU	细叶猪屎豆*	Slender-leaf Crotalaria	T1822 <i>Crotalaria intermedia</i>
XI YUAN TENG	细圆藤	Greyblue Pericampylus	T4710 <i>Pericampylus glaucus</i>
XI ZANG HU HUANG LIAN	西藏胡黄连	Figwortflower Picrorhiza	T4888 <i>Picrorhiza scrophulariiflora</i>
XI ZANG LU TI CAO	西藏鹿蹄草	Tibet Pyrola*	T5346 <i>Pyrola calliantha</i> var. <i>tibetana</i>
XI ZANG QIN JIAO	西藏秦艽	Tibet Gentian	T2937 <i>Gentiana tibetica</i>
XI ZANG SHA JI	西藏沙棘	Tibet Seabuckthorn	T3259 <i>Hippophae thibetana</i>
XI ZANG TIE XIAN LIAN	西藏铁线莲*	Tibet Clematis*	T1548 <i>Clematis tibetana</i>
XI ZANG ZHONG MA HUANG	西藏中麻黄	Tibet Intermediate Ephedra	T2370 <i>Ephedra intermedia</i> var. <i>tibetica</i>
XI ZE LAN	细泽兰*	Gracile Eupatorium*	T2561 <i>Eupatorium gracile</i>
XI ZHAN MAO REN DONG	细毡毛忍冬	Shortbraet Honeysuckle	T3918 <i>Lonicera similis</i>
XI ZHUI XIANG CHA CAI	细锥香茶菜	Littleconical Rabdosia	T5389 <i>Rabdosia coetsa</i>
XI ZI JUE	稀子蕨	Henry's Monachosorum	T4268 <i>Monachosorum henryi</i>
XI ZI MA HUANG	细子麻黄	Regel Ephedra	T2378 <i>Ephedra regeliana</i>
XIA BAO TUO WU	狭苞橐吾	Narrowbract Goldenray	T3807 <i>Ligularia intermedia</i>
XIA CAO	霞草	Oldham Gypsophila	T3090 <i>Gypsophila oldhamiana</i>
XIA CHUI AO YANG	下垂澳杨	Nutant Aussiepoplar*	T3274 <i>Homalanthus nutans</i>
XIA CHUI TAI CAO	下垂苔草*	Drooping Sedge*	T1203 <i>Carex pendula</i>
XIA FENG XIN ZI	夏风信子	Summer-hyacinth	T2842 <i>Galtonia candicans</i>
XIA GOU TENG	狭钩藤	Narrow Gambirplant*	T6606 <i>Uncaria attenuata</i>
XIA GUO QIAN HU	狭果前胡	Narrowfruit Hogfennel*	T4772 <i>Peucedanum stenocarpum</i>
XIA GUO SHAN XIAO JU GEN	狭果山小橘根*	Narrowfruit Glycosmis Root*	T3010 <i>Glycosmis stenocarpa</i>
XIA JI XIAN WEN XIANG CHA CAI	狭基线纹香茶菜	Gerard Linearstripe Rabdosia*	T3508 <i>Isodon lophanthoides</i> var. <i>gerardiana</i>
XIA KU CAO	夏枯草	Common Selfheal	T5214 <i>Prunella vulgaris</i>
XIA MA DAN	虾蟆胆	Rice Frog Gall	T5406 <i>Rana limnocharis</i>
XIA MA SANG	狭马桑*	Narrow Coriaria*	T1688 <i>Coriaria angustissima</i>
XIA TIAN GAO	霞天膏	Concentrated Beef Extract	T0983 <i>Bos taurus domesticus</i>
XIA TIAN WU	夏天无	Decumbent Corydalis	T1715 <i>Corydalis decumbens</i> [Syn. <i>Corydalis amabilis</i>]
XIA WAN NUO LIN	下弯诺林*	Recurvate Nolina*	T4437 <i>Nolina recurvata</i>
XIA XIE NAN WU WEI ZI	狭叶南五味子	Narrowleaf Kadsura*	T3612 <i>Kadsura angustifolia</i>
XIA XU TANG SONG CAO	狭序唐松草	Narrowraceme Meadowrue	T6374 <i>Thalictrum atriplex</i>
XIA XUE PIAN LIAN	夏雪片莲	Summer Snowflake	T3781 <i>Leucojum aestivum</i>
XIA YAN GU DANG GUI	下延古当归	Decurrent Archangelica	T0583 <i>Archangelica decurrens</i>
XIA YE BAI XIAN	狭叶白鲜	Narrowleaf Dittary*	T2165 <i>Dictamnus angustifolius</i>
XIA YE CHONG LOU	狭叶重楼	Narrowleaf Paris	T4651 <i>Paris polyphylla</i> var. <i>stenophylla</i>
XIA YE CU CAO SHI CHE JU ub	狭叶粗糙矢车菊*	Narrow Rough Star Thistle*	T1302 <i>Centaurea aspera</i> subsp. <i>stenophylla</i>
XIA YE DANG GUI	狭叶当归(川白芷)	Narrowleaf Angelica	T0476 <i>Angelica anomala</i>
XIA YE HONG JING TIAN	狭叶红景天	Kirilow Rhodiola	T5497 <i>Rhodiola kirilowii</i>
XIA YE HU JIAO	狭叶胡椒	Matico Pepper	T4931 <i>Piper angustifolium</i>
XIA YE JI GU CHANG SHAN	狭叶鸡骨常山	Narrowleaf Alstonia*	T0366 <i>Alstonia angustifolia</i>
XIA YE JIN JI ER	狭叶锦鸡儿	Narrowleaf Peashrub	T1192 <i>Caragana stenophylla</i>
XIA YE JUE MING	狭叶决明	Narrowleaf Senna*	T1237 <i>Cassia leptophylla</i>
XIA YE LONG SHE LAN	狭叶龙舌兰	Shortleaf Agave	T0219 <i>Agave cantala</i>
XIA YE QING HAO	狭叶青蒿	Tarragon	T0676 <i>Artemisia dracunculus</i>
XIA YE SHAN HU JIAO	狭叶山胡椒	Narrowleaf Spicebush	T3847 <i>Lindera angustifolia</i>
XIA YE SHE GEN CAO	狭叶蛇根草	Hayata Ophiorrhiza	T4509 <i>Ophiorrhiza hayatana</i>
XIA YE TANG SONG CAO	狭叶唐松草	Narrowleaf Meadowrue	T6394 <i>Thalictrum incidum</i>
XIA YE WU WEI ZI	狭叶五味子	Narrowleaf Magnoliavine*	T5794 <i>Schisandra lancifolia</i>
XIA YE XIANG CHA CAI	狭叶香茶菜	Narrowleaf Rabdosia*	T3480 <i>Isodon angustifolia</i>
XIA YE XIANG PU	狭叶香蒲	Narrowleaf Cattail Pollen	T6585 <i>Typha angustifolia</i>
XIA YE ZHANG YA CAI	狭叶獐牙菜	Narrowleaf Swertia	T6212 <i>Swertia angustifolia</i>

XIA ZHI CAO	夏至草	Lagopsis	T3675 <i>Lagopsis supina</i>
XIA ZI HUA	虾子花	Shrubby Woodwardia	T6830 <i>Woodfordia fruticosa</i>
XIAN CHI SHE PU TAO	显齿蛇葡萄	Bigdentate Ampelopsis	T0426 <i>Ampelopsis grossedentata</i> [Syn. <i>Ampelopsis cantoniensis</i> var. <i>grossedentata</i>]
XIAN CHI ZI JIN NIU	腺齿紫金牛	Glandtooth Ardisia*	T0593 <i>Ardisia cornudentata</i>
XIAN DI HUANG	鲜地黄(生地)	Adhesive Rehmannia Fresh Root	T5447 <i>Rehmannia glutinosa</i> [Syn. <i>Rehmannia glutinosa</i> f. <i>huechingensis</i>]
XIAN E HUANG LIAN	线萼黄连	Linearisepal Goldthread*	T1668 <i>Coptis linearisepala</i>
XIAN GENG XI XIAN	腺梗豨莩	Glandularstalk St. Paulswort	T5952 <i>Siegesbeckia orientalis</i> var. <i>pubescens</i> [Syn. <i>Siegesbeckia pubescens</i>]
XIAN HE CAO	仙鹤草	Japanese Argimonia	T0249 <i>Agrimonia pilosa</i> var. <i>japonica</i>
XIAN HE CAO GEN	仙鹤草根	Japanese Argimonia Root	T0250 <i>Agrimonia pilosa</i> var. <i>japonica</i>
XIAN HE CAO GEN YA	仙鹤草根芽	Japanese Argimonia Rhizome	T0251 <i>Agrimonia pilosa</i> var. <i>japonica</i>
XIAN HUA XIANG CHA CAI	腺花香茶菜	Glandularflower Rabdosia	T5388 <i>Rabdosia adenantha</i>
XIAN HUANG XIAO BO	鲜黄小檗	Reddrop Barberry	T0902 <i>Berberis diaphana</i>
XIAN KE LAI	仙客来	Florists Cyclamen	T1930 <i>Cyclamen persicum</i>
XIAN MAI JU	腺脉药	Glandularnerve Pepper	T4936 <i>Piper bavinum</i>
XIAN MAI XIANG CHA CAI	显脉香茶菜	Veined Rabdosia	T5395 <i>Rabdosia nervosa</i>
XIAN MAI XUAN FU HUA	显脉旋覆花	Veined Inula	T3436 <i>Inula nervosa</i>
XIAN MAI ZHANG YA CAI	显脉獐牙菜	Veined Swertia*	T6228 <i>Swertia nervosa</i>
XIAN MAO	仙茅	Common Cruculigo	T1901 <i>Curculigo orchoides</i>
XIAN MAO HEI ZHONG CAO	腺毛黑种草	Glandular Fennelflower	T4432 <i>Nigella glandulifera</i>
XIAN REN ZHANG	仙人掌	Cholla	T4519 <i>Opuntia dillenii</i>
XIAN SE LI	苋色藜	Amaranthinecolor Goosefoot*	T1360 <i>Chenopodium amaranticolor</i>
XIAN SHENG MA XIAN HAO	藓生马先蒿	Muscicolous Woodbetony	T4682 <i>Pedicularis muscicola</i>
XIAN SUAN QIANG	咸酸强	Whiteflower Embelia	T2348 <i>Embelia ribes</i>
XIAN WEN XIANG CHA CAI	线纹香茶菜	Linearstripe Rabdosia	T3506 <i>Isodon lophanthoides</i>
XIAN XI LAO GUAN CAO	纤细老鹳草	Robert Cranesbill	T2946 <i>Geranium robertianum</i>
XIAN XI SHU YU	纤细薯蓣	Thinnest Yam	T2198 <i>Dioscorea gracillima</i>
XIAN YE BA DOU	线叶巴豆	Linear Croton*	T1850 <i>Croton linearis</i>
XIAN YE CHAI HU	线叶柴胡	Linearleaf Thorowax	T1055 <i>Bupleurum angustissimum</i>
XIAN YE JIN JI JU	线叶金鸡菊	Lance Coreopsis	T1685 <i>Coreopsis lanceolata</i>
XIAN YE QIN	纤叶芹	Thinleaf Celery	T0546 <i>Apium leptophyllum</i>
XIAN YE REN DONG	腺叶忍冬	Glaucousback Honeysuckle	T3911 <i>Lonicera hypoglauca</i>
XIAN YE XUAN FU HUA	线叶旋覆花	Linearleaf Inula	T3434 <i>Inula linariaefolia</i>
XIAN YU FENG WEI JUE	线羽凤尾蕨	Linear Brake	T5293 <i>Pteris linearis</i>
XIAN ZE LAN	腺泽兰*	Glandulous Eupatorium*	T2560 <i>Eupatorium glandulosum</i>
XIAN ZHOU MAI MA TENG	显轴买麻藤	Spinach Jointfir	T3028 <i>Gnetum gnemon</i>
XIAN ZHUANG WANG DI ZAO	线状网地藻		T2170 <i>Dictyota linearis</i>
XIANG BA DOU	香巴豆*	Balsam Croton*	T1838 <i>Croton balsamifera</i>
XIANG CAO SHUI YANG MEI	香草水杨梅*	Herb Bennet	T2958 <i>Geum urbanum</i>
XIANG CHA CAI	香茶菜	Common Rabdosia	T3479 <i>Isodon amethystoides</i>
XIANG CHE YE CAO	香车叶草	Sweet Woodruff	T0757 <i>Asperula odorata</i>
XIANG CI BAI FEI ZHOU BIAN ZHONG	香刺柏非洲变种*	Mastic Africa Juniper*	T3602 <i>Juniperus thurifera</i> var. <i>africana</i>
XIANG DAN	象胆	Elephant Gall	T2336 <i>Elephas maximus</i>
XIANG DOU	香豆		T2237 <i>Dipteryx odorata</i>
XIANG FENG HUA	香蜂花	Bee Balm	T4174 <i>Melissa officinalis</i>
XIANG FU	香附	Nutgrass Galingale	T1978 <i>Cyperus rotundus</i>
XIANG GANG JIAN MU	香港檉木	Hongkong Pencilwood	T2310 <i>Dysoxylum hongkongense</i>
XIANG GEN QIN	香根芹	Laxleaf Sweetroot	T4551 <i>Osmorhiza aristata</i> var. <i>laxa</i>
XIANG GU	象骨	Elephant Bone	T2337 <i>Elephas maximus</i>
XIANG HE HUAN	香合欢	Fragrant Albizia*	T0295 <i>Albizzia odoratissima</i>

XIANG HUANG LIAN MU	香黄连木	Mastic-tree	T4980 <i>Pistacia lentiscus</i>
XIANG JIA PI	香加皮	Chinese Silkvine Root-bark	T4729 <i>Periploca sepium</i>
XIANG JIAO	香蕉	Common Banana	T4331 <i>Musa paradisiaca</i> var. <i>sapientum</i> [Syn. <i>Musa sapientum</i>]
XIANG JIAO SHU	橡胶树	Para Rubbertree	T3236 <i>Hevea brasiliensis</i>
XIANG LI	香藜	Feathered Geranium	T1362 <i>Chenopodium botrys</i>
XIANG LING CAO	响铃草	Rust-coloured Croton	T1819 <i>Crotalaria ferruginea</i>
XIANG MAN TUO LUO	香曼陀罗	Fragrant Datura*	T2040 <i>Datura metaloides</i>
XIANG MAO	香茅	Lemongrass	T1939 <i>Cymbopogon citratus</i>
XIANG MO ZHI JU	香膜质菊		T3326 <i>Hymenoxys odorata</i>
XIANG NING MENG	香柠檬	Bergamot Orange	T1470 <i>Citrus bergamia</i>
XIANG PI MU	象皮木	Common Alstonia	T0374 <i>Alstonia scholaris</i>
XIANG QI JIA MI	香气茛菪*	Sweet Viburnum*	T6738 <i>Viburnum odoratissimum</i>
XIANG QING LAN	香青兰	Dragonhead	T2257 <i>Dracocephalum moldavicum</i>
XIANG RI KUI HUA	向日葵花	Sunflower Flower	T3142 <i>Helianthus annuus</i>
XIANG RI KUI JING SUI	向日葵茎髓	Sunflower Stem Pith	T3143 <i>Helianthus annuus</i>
XIANG RI KUI YE	向日葵叶	Sunflower Leaf	T3144 <i>Helianthus annuus</i>
XIANG RI KUI ZI	向日葵籽	Sunflower Seed	T3145 <i>Helianthus annuus</i>
XIANG ROU	象肉	Elephant Meat	T2338 <i>Elephas maximus</i>
XIANG ROU GUO	香肉果	Edible Casimiroa	T1226 <i>Casimiroa edulis</i>
XIANG RU	香薷	Haichow Elsholtzia	T2343 <i>Elsholtzia splendens</i>
XIANG SI CAO	香丝草	Bona Conyza	T1656 <i>Conyza bonariensis</i> [Syn. <i>Erigeron bonariensis</i> ; <i>Erigeron linifolius</i> ; <i>Erigeron crispus</i>]
XIANG SI TENG	相思藤	Coralhead Plant Vine	T0011 <i>Abrus precatorius</i>
XIANG SI ZI	相思子	Coralhead Plant	T0012 <i>Abrus precatorius</i>
XIANG TANG SONG CAO	香唐松草	Tibetan Meadowrue	T6386 <i>Thalictrum foetidum</i>
XIANG TIE KUAI ZI	香铁筷子	Odorous Hellebore*	T3184 <i>Helleborus odoratus</i>
XIANG WAN DOU	香豌豆	Sweet Pea	T3707 <i>Lathyrus odoratus</i>
XIANG XUN	香蕈	Champignon	T3742 <i>Lentinus edodes</i>
XIANG YA HAI AN GE MU	象牙海岸格木	Ivory Coast Erythrophleum	T2486 <i>Erythrophleum ivorense</i>
XIANG YANG	香杨	Korea Poplar	T5154 <i>Populus koreana</i>
XIANG YANG MEI	香杨梅	Bog-myrtle	T4344 <i>Myrica gale</i>
XIANG YE	香叶	Roce Pelargonium	T4690 <i>Pelargonium graveolens</i>
XIANG YE YANG	响叶杨	Chinese Aspen	T5144 <i>Populus adenopoda</i>
XIANG YIN YU	香茵芋	Japanese Skimmia	T5970 <i>Skimmia japonica</i>
XIANG YING ZHAO	香鹰爪	Fragrant Tailgrape*	T0656 <i>Artabotrys suaveolens</i>
XIANG YUAN	香椽	Wilson Citron	T1520 <i>Citrus wilsonii</i>
XIANG YUAN ZHI SHI	香椽枳实	Wilson Orange Young Fruit	T1521 <i>Citrus wilsonii</i>
XIANG ZHANG	香樟	Yellow Cinnamon	T1443 <i>Cinnamomum parthenoxylum</i> [Syn. <i>Cinnamomum porrectum</i>]
XIANG ZHI LENG SHAN	香脂冷杉	Balsam Fir	T0004 <i>Abies balsamea</i>
XIANG ZI LAN	香子兰	Vanilla	T6684 <i>Vanilla planifolia</i>
XIAO BA JIAO LIAN	小八角莲	Dwarf Many-flowered May-apple	T2298 <i>Dysosma difformis</i>
XIAO BAI BU	小百部	Officinal Asparagus	T0752 <i>Asparagus officinalis</i>
XIAO BAI CHENG	小白撑	Unequalhair Paoshan Monkshood	T0116 <i>Aconitum nagarum</i> var. <i>heterotrichum</i> [Syn. <i>Aconitum bullatifolium</i>]
XIAO BANG XIYOU QIYOU HAI MIAN	小棒绣球海绵	Sponge <i>Iotrochota baculifera</i>	T3442 <i>Iotrochota baculifera</i>
XIAO BO	小檗	Amur Barberry	T0897 <i>Berberis amurensis</i>
XIAO BO SI SHI SUAN	小波斯石蒜	Small Ungernia*	T6641 <i>Ungernia minor</i>
XIAO CAO WU	小草乌	Yunnan Larkspur	T2091 <i>Delphinium yunnanense</i>
XIAO CHAO CAI	小巢菜	Pigeon Vetch	T6749 <i>Vicia hirsuta</i>

XIAO DAO XING HUANG TAN	小刀形黄檀	Cultrate Rosewood*	T2001 <i>Dalbergia cultrata</i>
XIAO DI YU	小地榆*	Small Burnet*	T5711 <i>Sanguisorba minor</i>
XIAO E TAI	小萼苔		T4340 <i>Mylia taylorii</i>
XIAO GAI SHU WEI CAO	小盖鼠尾草	Microcap Sage*	T5679 <i>Salvia microstegia</i>
XIAO GAN	小柑	Falcate Micromelum	T4221 <i>Micromelum falcatum</i>
XIAO GOU SHU	小构树	Kazinoki Papermulberry	T1031 <i>Broussonetia kazinoki</i>
XIAO GUO KA FEI	小果咖啡	Arabian Coffeetree	T1608 <i>Coffea arabica</i>
XIAO GUO NAN ZHU	小果南烛	Littlefruit Lyonia	T3992 <i>Lyonia ovalifolia</i> var. <i>elliptica</i>
XIAO GUO QIANG WEI GEN	小果蔷薇根	Smallfruit Rose	T5563 <i>Rosa cymosa</i>
XIAO GUO SHI DA GONG LAO	小果十大功劳	Bodinier Mahonia	T4058 <i>Mahonia bodinieri</i>
XIAO GUO TANG SONG CAO	小果唐松草	Smallfruit Meadowrue	T6398 <i>Thalictrum microgynum</i>
XIAO GUO XIANG CAO	小果香草	Smallfruit Loosestrife*	T4003 <i>Lysimachia microcarpa</i>
XIAO GUO YE JIAO	小果野蕉	Acuminate Banana	T4329 <i>Musa acuminata</i>
XIAO GUO YIN MAO QIU	小果银毛球	Fishhook Cactus	T4097 <i>Mammillaria microcarpa</i>
XIAO GUO YUN XIANG	小果芸香*	Smallfruit Rue*	T5627 <i>Ruta microcarpa</i>
XIAO GUO ZAO	小果枣	Littlefruit Jujube	T6923 <i>Zizyphus oenoplia</i>
XIAO HEI YANG	小黑杨	Slamm Black Poplar	T5166 <i>Populus xiaohei</i>
XIAO HONG SHEN	小红参	Yunnan Madder	T5586 <i>Rubia yunnanensis</i>
XIAO HONG SUAN	小红蒜	American Eleutherine	T2339 <i>Eleutherine americana</i>
XIAO HUA DUN YE SHU YU	小花盾叶薯蓣	Smallflower Yam	T2206 <i>Dioscorea parviflora</i>
XIAO HUA FENG MAO JU	小花凤毛菊	Smallflower Saussurea*	T5763 <i>Saussurea parviflora</i>
XIAO HUA GUI ZHEN	小花鬼针	Smallflower Beggarticks	T0939 <i>Bidens parviflora</i>
XIAO HUA HUANG JIN	小花黄堇	Racemose Corydalis	T1733 <i>Corydalis racemosa</i>
XIAO HUA LAO SHU LE.	小花老鼠筋	Smallflower Acanthus*	T0047 <i>Acanthus ebracteatus</i>
XIAO HUA MU BAN SHU	小花木瓣树	Smallflower Xylopia*	T6854 <i>Xylopia parviflora</i>
XIAO HUA MU LAN GUO	小花木橐果*	Smallflower Bruguiera Fruit*	T1040 <i>Bruguiera parviflora</i>
XIAO HUA PAO PAO	小花泡泡	Smallflower Pawpaw	T0743 <i>Asimina parviflora</i>
XIAO HUA PO LEI	小花坡垒	Kongu	T3280 <i>Hopea parviflora</i>
XIAO HUA QIU GUO ZI JIN	小花球果紫堇*	Fine-leaved Fumitory	T2808 <i>Fumaria parviflora</i>
XIAO HUA SHA ZHEN	小花沙针*	East African Sandalwood	T4556 <i>Osyris tenuifolia</i>
XIAO HUA SUAN TENG ZI	小花酸藤子	Smallflower Embelia	T2347 <i>Embelia parviflora</i>
XIAO HUA WU WEI ZI	小花五味子	Smallflower Magnoliavine*	T5795 <i>Schisandra micrantha</i>
XIAO HUA WU YA GUO	小花五桠果	Pentagynous Dillenia	T2182 <i>Dillenia pentagyna</i>
XIAO HUA XIA KU CAO	小花夏枯草*	Smallflower Bugle*	T0268 <i>Ajuga parviflora</i>
XIAO HUA YUAN ZHI	小花远志	Smallflower Milkwort	T5087 <i>Polygala telephioides</i>
XIAO HUA ZI JIN	小花紫堇*	Micranthine Corydalis*	T1725 <i>Corydalis micrantha</i>
XIAO HUANG ZI JIN	小黄紫堇	Small Ochotsk Corydalis	T1729 <i>Corydalis ochotensis</i> var. <i>raddeana</i>
XIAO JI	小薊	Setose Thistle	T1451 <i>Cirsium setosum</i> [Syn. <i>Cerratula setosa</i> ; <i>Cirsium segetum</i> ; <i>Cephalanoplos segetum</i>]
XIAO JIAN CAO	小箭草	Bulbiferous Stonecrop	T5852 <i>Sedum bulbiferum</i>
XIAO JIAO HAI YING SU	小角海罂粟	Black-spot Hornpoppy	T2966 <i>Glaucium corniculatum</i>
XIAO JIAO ZHU HUA	小角柱花	Creeping Ceratostigma, Creeping Bluesnow	T1327 <i>Ceratostigma minus</i>
XIAO JIE JIN CAO	小接筋草	Selago-like Climbing Fern	T3294 <i>Huperzia selago</i> [Syn. <i>Lycopodium selago</i>]
XIAO JIN ZHAN HUA	小金盏花	Field Marigold	T1112 <i>Calendula arvensis</i>
XIAO JING DOU	小荆豆*	Small Gorse*	T6591 <i>Ulex minor</i>
XIAO LA BA	小喇叭	Verticillate Cladonia	T1529 <i>Cladonia verticillata</i>
XIAO LIAN QIAO	小连翘	Erect St. John'swort	T3349 <i>Hypericum erectum</i>
XIAO LONG YE KUO BAO JU	小龙叶阔苞菊*	Dracunculi-leaf Pluchea*	T0844 <i>Baccharis dracunculifolia</i>
XIAO LU QIE	小路茄*	Viatic Nightshade*	T6019 <i>Solanum viarium</i>
XIAO MAI	小麦	Wheat	T6544 <i>Triticum aestivum</i> [Syn. <i>Triticum vulgare</i>]
XIAO MEI WEI QIN	小美味芹		T5986 <i>Smyrniolum olusatrum</i>

XIAO MI CAO	小米草	Meadow Eyebright	T2628 <i>Euphrasia officinalis</i>
XIAO MU MA HUANG	小木麻黄	Small Beefwood*	T1259 <i>Casuarina stricta</i>
XIAO PO PO NA	小婆婆纳	Thymeleaf Speedwell	T6728 <i>Veronica serpyllifolia</i>
XIAO QIAO MU ZI JIN NIU	小乔木紫金牛	Small-tree Ardisia*	T0591 <i>Ardisia arborescens</i>
XIAO QING YANG	小青杨	False Simon Poplar	T5157 <i>Populus pseudo-simonii</i>
XIAO QIU BAI BU	小丘百部	Hill Stemona*	T6109 <i>Stemona collinsae</i>
XIAO RU XIANG	肖乳香	Brazilian Peppertree	T5789 <i>Schinus terebinthifolius</i>
XIAO SHA DONG QING	小沙冬青	Small Piptanthus*	T4975 <i>Piptanthus nanus</i>
XIAO SHE JU GEN	小舌菊根	Pearleaf Microglossa Root	T4218 <i>Microglossa pyriformis</i>
XIAO SHE ZI WAN	小舌紫菀	Smallligulatecorolla Aster	T0778 <i>Aster albescens</i>
XIAO TANG SONG CAO	小唐松草	Low Meadowrue	T6399 <i>Thalictrum minus</i>
XIAO TOU DUI XIN JU	小头堆心菊	Littlehead Sneezeweed	T3139 <i>Helenium microcephalum</i>
XIAO TOU LIANG HOU CHA	小头凉喉茶	Capitellate Hedyotis	T3124 <i>Hedyotis capitellata</i>
XIAO TOU TIE ZI	小头铁仔*	Capitellate Myrsine*	T4362 <i>Myrsine capitellata</i>
XIAO WU MAO JUE	小乌毛蕨*	Minus Hard-fern*	T0951 <i>Blechnum minus</i>
XIAO XI CANG ER	小溪苍耳*	Ripply Cocklebur*	T6842 <i>Xanthium riparium</i>
XIAO XIAN AO DING ZAO	小腺凹顶藻	Small-grand Concave-top Alga*	T3717 <i>Laurencia glandulifera</i>
XIAO XIN YE SHU	小心叶薯	Smallheartleaved Morningglory	T3450 <i>Ipomoea obscura</i>
XIAO XING HUA YAN QIANG WEI	小形花岩蔷薇*		T1459 <i>Cistus parviflorus</i>
XIAO XUAN CAO GEN	小萱草根	Small Yellow Daylily	T3197 <i>Hemerocallis minor</i>
XIAO XUE REN SHEN	小雪人参	Woolly Lespedeza	T3774 <i>Lespedeza tomentosa</i>
XIAO YE CEN	小叶椴	Bunga Ash Bark	T2766 <i>Fraxinus bungeana</i>
XIAO YE DI BU RONG	小叶地不容	Littleleaf Stephania	T6135 <i>Stephania succifera</i>
XIAO YE DU LIAN	小叶杜楝	Littleleaf Starbush*	T6571 <i>Turraea parvifolia</i>
XIAO YE DU YING	小叶杜英*	Small-leafElaeocarpus*	T2330 <i>Elaeocarpus parvifolius</i>
XIAO YE GUAN ZHONG	小叶贯众	Matteuccia Frond	T4127 <i>Matteuccia struthiopteris</i>
XIAO YE HEI CHAI HU	小叶黑柴胡	Smallleaf Black Thorowax	T1075 <i>Bupleurum smithii</i> var. <i>parvifolium</i>
XIAO YE HONG GUANG SHU	小叶红光树	Small-leaf Knema	T3631 <i>Knema globularia</i>
XIAO YE HUA	笑靥花	Bridalwreath Spiraea	T6084 <i>Spiraea prunifolia</i>
XIAO YE HUA BEI XIU XIAN JU	小叶华北绣线菊	Smallleaf Fritsch Spiraea*	T6078 <i>Spiraea fritschiana</i> var. <i>parvifolia</i>
XIAO YE HUANG YANG	小叶黄杨	Small-leaved Box	T1091 <i>Buxus microphylla</i>
XIAO YE JI WEI	小野鸡尾	Japanese Clave Fern	T4502 <i>Onychium japonicum</i> [Syn. <i>Tricomanes japonicum</i>]
XIAO YE JIU LI XIANG	小叶九里香	Littleleaf Common Jasminorange	T4325 <i>Murraya paniculata</i> var. <i>exotica</i>
XIAO YE JU HAO	小叶菊蒿	Small-leaf Tansy*	T6293 <i>Tanacetum microphyllum</i>
XIAO YE LIE LAN	小叶裂榄	Elephant Tree	T1081 <i>Bursera microphylla</i>
XIAO YE MAI MA TENG	小叶买麻藤	Smallleaf Jointfir	T3033 <i>Gnetum parvifolium</i> [Syn. <i>Gnetum indicum</i>]
XIAO YE PI PA	小叶枇杷	Savory Rhododendron	T5502 <i>Rhododendron anthopogonoides</i>
XIAO YE SHI NAN	小叶石楠	Small-leaf Photinia*	T4827 <i>Photinia parvifolia</i>
XIAO YE TANG SONG CAO	小叶唐松草	Small-leaf Meadowrue	T6380 <i>Thalictrum elegans</i>
XIAO YE XIANG CHA CAI	小叶香茶菜	Smallleaf Rabdosia*	T3517 <i>Isodon parvifolia</i>
XIAO YE XUAN GOU ZI	小叶悬钩子	Small-leaf Raspberry	T5601 <i>Rubus taiwanicolus</i>
XIAO YE YANG	小叶杨	Simon Poplar	T5158 <i>Populus simonii</i>
XIAO YE YE JUE MING	小叶野决明	Chinese Thermopsis	T6426 <i>Thermopsis chinensis</i>
XIAO YE YING MAO QI MU	小叶硬毛槲木	Smallleaf-hirsute Alder*	T0327 <i>Alnus hirsute</i> var. <i>microphylla</i>
XIAO YE ZHI MA	小野芝麻	China Weasel-snout	T2825 <i>Galeobdolon chinense</i> [Syn. <i>Lamium chinense</i>]
XIAO YUN MU	小芸木	Entire Micromelum	T4223 <i>Micromelum integerrimum</i>
XIAO ZHU SHI DOU	小猪屎豆	Small Rattle-box	T1827 <i>Crotalaria nana</i>
XIE BAI	薤白	Longstamen Onion	T0316 <i>Allium macrostemon</i>
XIE CAO	缬草	Common Valeriana	T6679 <i>Valeriana officinalis</i>

XIE FEI ZI YU PAN	谢飞紫玉盘*	Scheffleri Uvaria*	T6667 <i>Uvaria scheffleri</i>
XIE JI CU YE MU	斜基粗叶木	Wallich Lasianthus	T3698 <i>Lasianthus wallichii</i>
XIE JING ZHANG YA CAI	斜茎獐牙菜	Spreading Swertia*	T6229 <i>Swertia patens</i>
XIE KE	蟹壳	Mitten Crab Chelae	T2435 <i>Eriocheir sinensis</i>
XIE PU TAO	楔葡萄	Coigne Grape*	T6795 <i>Vitis coignetiae</i>
XIE SHI ZI JIN	谢氏紫堇	Sewerzow Corydalis*	T1741 <i>Corydalis sewerzowi</i>
XIE WEI JU	蝎尾菊	Linear Koelpinia	T3634 <i>Koelpinia linearis</i>
XIE XING WU TOU	楔形乌头*	Cuneate Monkshood*	T0134 <i>Aconitum subcuneatum</i>
XIE YE ZE LAN	楔叶泽兰	Cuneateleaf Eupatorium*	T2557 <i>Eupatorium cuneifolium</i>
XIE YU FENG WEI JUE	斜羽凤尾蕨	Oblique Pinna Brake	T5296 <i>Pteris oshimensis</i>
XIE ZHUA LAN	蟹爪兰	Crab-craw Orchis*	T5806 <i>Schlumbergera truncata</i>
XIN FEI CAO	辛菲草	Caucasian Comfrey	T6245 <i>Symphytum caucasicum</i>
XIN HE LAN HU JIAO	新荷兰胡椒*	Novel-Holland Pepper*	T4958 <i>Piper nove-hollandae</i>
XIN JIANG BEI MU	新疆贝母	Sinkiang Fritillary	T2800 <i>Fritillaria walujewii</i>
XIN JIANG DANG SHEN	新疆党参	Clematis Asiabell	T1597 <i>Codonopsis clematidea</i>
XIN JIANG GAO BEN	新疆藜本	Vaginate Hemlockparsley	T1641 <i>Conioselinum vaginatum</i>
XIN JIANG LAN CI TOU	新疆蓝刺头	Sinkiang Globethistle	T2317 <i>Echinops ritro</i>
XIN JIANG YANG	新疆杨	Sinkiang Poplar*	T5146 <i>Populus alba</i> var. <i>pyramdalis</i>
XIN JIANG YI ZHI HAO	新疆一支蒿	Rock Wormwood	T0692 <i>Artemisia rupestris</i> [Syn. <i>Artemisia dentata</i> ; <i>Artemisia viridis</i> ; <i>Artemisia viridifolia</i>]
XIN MEI FENG MAO JU	新美风毛菊*	New Beauty Saussurea*	T5761 <i>Saussurea neopulchella</i>
XIN NONG XIANG MAO	信浓香茅	Senna Lemongrass*	T1947 <i>Cymbopogon sennaarensis</i>
XIN SHAO NA CAO	新哨纳草	Fringecups	T6328 <i>Tellima grandifolia</i>
XIN SU GE LAN XUE GUO MU	新苏格兰穴果木	Newcaledonian Coelospermum*	T1607 <i>Coelospermum billardieri</i>
XIN XI LAN LUO HAN SONG	新西兰罗汉松	New Zealand Podocarpus*	T5038 <i>Podocarpus ferrugineu</i>
XIN XI LAN MA	新西兰麻	New Zealand Flax	T4825 <i>Phormium tenax</i>
XIN XI LAN MU JING	新西兰牡荆	Puriri	T6785 <i>Vitex lucens</i>
XIN XI LAN YE TAI	新西兰叶苔*	Cardia-petal Goniothalamus*	T3580 <i>Jungermannia</i> sp. T3043 <i>Goniothalamus cardiopetalus</i>
XIN XING BAN GE NA XIANG	心形瓣哥纳香	Cordate Gambirplant*	T6612 <i>Uncaria cordata</i>
XIN XING GOU TENG	心形钩藤*	Cordate Syzygium*	T6265 <i>Syzygium cordatum</i>
XIN XING PU TAO	心形蒲桃*	Cardialeaf Tinospora*	T3579 <i>Jungermannia exsertifolia</i> ssp. <i>cordifolia</i> T6464 <i>Tinospora cordifolia</i>
XIN XING SHEN YE YE TAI	心形伸叶叶苔*	Heartleaf Tubergourd	T6435 <i>Thladiantha cordifolia</i>
XIN XING YE QING NIU DAN	心形叶青牛胆*	Lily Magnolia Buds	T4041 <i>Magnolia liliflora</i> T4809 <i>Phlomis lunariifolia</i>
XIN YE CHI BO	心叶赤廔	Sinkiang-Tibet Arnebia	T0648 <i>Arnebia euchroma</i>
XIN YI	辛夷	Dahurian Pulsatilla*	T5326 <i>Pulsatilla dahurica</i>
XIN YUE XING YE CAO SU	新月型叶糙苏*	Siberia Thorowax	T1073 <i>Bupleurum sibiricum</i>
XIN ZANG JIA ZI CAO	新藏假紫草	Dahurian Bugbane	T1419 <i>Cimicifuga dahurica</i>
XING AN BAI TOU WENG	兴安白头翁	Shield Floatingheart	T4456 <i>Nymphoides peltatum</i>
XING AN CHAI HU	兴安柴胡	Punctated Microsorium*	T4225 <i>Microsorium punctatum</i>
XING AN SHENG MA	兴安升麻	Apricot Seed	T5216 <i>Prunus armeniaca</i>
XING CAI	苍菜	Apricot Root	T5217 <i>Prunus armeniaca</i>
XING JUE	星蕨	Stellate hair Carpetweed	T2984 <i>Glinus lotoides</i> [Syn. <i>Mollugo lotoides</i>]
XING REN	杏仁	Apricot	T5218 <i>Prunus armeniaca</i>
XING SHU GEN	杏树根	Bear Gall	T5871 <i>Selenarctos thibetanus</i> ; <i>Ursus arctos</i>
XING SU CAO	星粟草	Mexican Ageratum	T0230 <i>Ageratum houstonianum</i>
XING ZI	杏子	Bearberry	T0588 <i>Arctostaphylos uva-ursi</i>
XIONG DAN	熊胆	Common Tritonia	T6548 <i>Tritonia crocosmaeflora</i>
XIONG ER CAO	熊耳草	Staminate Sage*	T5695 <i>Salvia staminea</i>
XIONG GUO	熊果	Big-flowered Javatea	T4541 <i>Orthosiphon stamineus</i> [Syn.
XIONG HUANG LAN	雄黄兰		
XIONG RUI ZHUANG SHU WEI CAO	雄蕊状鼠尾草*		
XIONG RUI ZHUANG ZHI CAO	雄蕊状直管草		

GUAN CAO

XIONG ZHANG	熊掌	Bear's Paw	<i>Orthosiphon aristatus</i> ; <i>Orthosiphon grandiflorus</i> ; <i>Orthosiphon spicatus</i>
XIU HONG QIANG WEI	锈红蔷薇*	Sweet-briar	T5872 <i>Selenarctos thibetanus</i> ; <i>Ursus arctos</i>
XIU LI YING ZHAO	秀丽鹰爪*	Venus Tailgrape*	T5571 <i>Rosa rubiginosa</i>
XIU MAO DI HUANG	锈毛地黄	Rusty Foxglove	T0658 <i>Artabotrys venustus</i>
XIU MAO JI SHENG	锈毛寄生	Rustyhair Taxillus	T2174 <i>Digitalis ferruginea</i>
XIU MAO YE TONG	锈毛野桐	Anomalous Mallotu	T6304 <i>Taxillus levinei</i>
XIU QIU QIAN CAO	绣球茜草	Chinese Dunnia	T4079 <i>Mallotus anomalus</i>
XIU QIU SHU WEI CAO	绣球鼠尾草*		T2294 <i>Dunnia sinensis</i>
XIU SE AN XI XIANG	锈色安息香	Ferruginous Snowbell*	T5675 <i>Salvia hydrangea</i>
XIU XIAN JU	绣线菊	Japanese Spiraea	T6198 <i>Styrax ferrugineus</i>
XIU XIAN JU YE	绣线菊叶	Japanese Spiraea Leaf	T6079 <i>Spiraea japonica</i>
XU CHANG QING	徐长卿	Paniculate Swallowwort	T6080 <i>Spiraea japonica</i>
XU DUAN	续断	Japanese Teasel	T1959 <i>Cynanchum paniculatum</i>
XU DUAN JU	续断菊	Prickly Sowthistle	T2235 <i>Dipsacus japonicus</i>
			T6026 <i>Sonchus asper</i> [Syn. <i>Sonchus oleraceus</i> var. <i>asper</i>]
XU LI YA MA LI JIN	叙利亚马利筋	Milkweed	T0740 <i>Asclepias syriaca</i>
XU LI YA NIU ZHI	叙利亚牛至*	Syria Origanum*	T4525 <i>Origanum syriacum</i>
XU SUI ZI JING ZHONG BAI ZHI	续随子茎中白汁	Caper Euphorbia Latex	T2598 <i>Euphorbia lathyris</i>
XUAN CAO GEN	萱草根	Orange Daylily	T3193 <i>Hemerocallis fulva</i>
XUAN CHUI GEN NAI LA CAO	悬垂根乃拉草*		T3073 <i>Gunnera perpensa</i>
XUAN CHUI JIA MI	悬垂荚蒾	Weeping Viburnum*	T6740 <i>Viburnum suspensum</i>
XUAN FU HUA	旋覆花	British Inula	T3427 <i>Inula britannica</i>
XUAN GOU ZI	悬钩子	Avrons	T5589 <i>Rubus chamaemorus</i>
XUAN GUO WEN ZI CAO	旋果蚊子草	Queen-of-the-Meadows	T2729 <i>Filipendula ulmaria</i>
XUAN HUA YANG JIAO AO	旋花羊角拗	Spinyflower Strophanthus	T6156 <i>Strophanthus gratus</i>
XUAN NIU XIE HAO	旋扭邪蒿	Tortuous Seseli*	T5936 <i>Seseli tortuosum</i>
XUAN SHEN	玄参	Ningpo Figwort	T5828 <i>Scrophularia ningpoensis</i>
XUAN WEI WU TOU	宣威乌头	Haoryanther Paoshan Monkshood	T0117 <i>Aconitum nagarum</i> var. <i>lasiandrum</i>
XUAN YA MEI GUI	悬崖玫瑰*	Cliffrose	T1766 <i>Cowania mexicana</i>
XUAN YE XIANG QING	旋叶香青	Coiledleaf Pearleverlasting	T0445 <i>Anaphalis contorta</i>
XUE BAI XIANG RI KUI	雪白向日葵*	Snowwhite Sunflower*	T3151 <i>Helianthus niveus</i>
XUE CHA	雪茶	Vermiculate Thamnoia Thallus	T6416 <i>Thamnoia vermicularis</i>
XUE GUANG HUA	雪光花	Glory-of-the-snow	T1368 <i>Chionodoxa luciliae</i>
XUE HONG SHUAN JUN	血红栓菌		T5339 <i>Pycnoporus sanguineus</i>
XUE HUA LIAN	雪花莲	Snowdrop	T2822 <i>Galanthus nivalis</i>
XUE LIAN	雪莲	Snow Lotus	T5755 <i>Saussurea involucreta</i>
XUE LING HAO	雪岭蒿	Schrenk Wormwood*	T0694 <i>Artemisia schrenkiana</i>
XUE LING ZHI	雪灵芝	Kansu Sandwort	T0608 <i>Arenaria kansuensis</i> [Syn. <i>Arenaria kumaonensis</i>]
			T2922 <i>Gentiana nivalis</i>
XUE LONG DAN	雪龙胆	Snaw Gentian	T3782 <i>Leucojum vernum</i>
XUE PIAN LIAN	雪片莲	Spring Snowflake	T6122 <i>Stephania dielsiana</i>
XUE SAN SHU	血散薯	Diels Stephania	T4575 <i>Pachysandra terminalis</i>
XUE SHAN LIN	雪山林	Japanese Pachysandra	T0079 <i>Aconitum brachypodum</i>
XUE SHANG YI ZHI HAO	雪上一支蒿	Shortstalk Monkshood	T4376 <i>Narcissus nivalis</i>
XUE SHENG SHUI XIAN	雪生水仙		T1282 <i>Cedrus deodara</i>
XUE SONG	雪松	Deodar Cedar	T4013 <i>Macaranga tanarius</i>
XUE TONG	血桐	Common Macaranga	T0528 <i>Anthriscus cerefolium</i>
XUE WEI CAI	雪维菜	Garden Chervil	T3278 <i>Homo sapiens</i>
XUE YU	血余	Human Hair	T0942 <i>Biebersteinia heterostemon</i>
XUN DAO NIU	熏倒牛	Heterostemonous Biebersteinia	T0183 <i>Adlumia cirrhosa</i> [Syn. <i>Adlumia fungosa</i>]
XUN ZHUANG SHAN YUAN CAO	蕈状山缘草	Climbing Fumitory	

YA DAN ZI	鸦胆子	Java Brucea	T1038 <i>Brucea javanica</i> [Syn. <i>Brucea sumatrana</i> ; <i>Rhus javanica</i>]
YA DONG WU TOU	亚东乌头	Yadong Monkshood	T0077 <i>Aconitum balfourii</i>
YA ER QIN	鸭儿芹	Japanese Cryptotaenia	T1869 <i>Cryptotaenia japonica</i>
YA HU NU	亚乎奴	Hirsute Cissampelos*	T1453 <i>Cissampelos pareira</i> var. <i>hirsute</i>
YA JIAO AI	鸭脚艾	Ghostplant Wormwood	T0680 <i>Artemisia lactiflora</i>
YA KE BEI QIAN LI GUANG	牙克贝千里光	Alpine Groundsel*	T5878 <i>Senecio alpinus</i>
YA LI QIAN JIN TENG	雅丽千金藤	Elegant Stephania	T6125 <i>Stephania elegans</i>
YA LI SANG NA DUI XIN JU	亚利桑那堆心菊*	Arizona Sneezeweed*	T3132 <i>Helenium arizonicum</i>
YA LIE XING HAO	亚列兴蒿	Sublessing Wormwood*	T0699 <i>Artemisia sublessingiana</i>
YA LUO CHUN	亚罗椿	Bacciform Cipadessa	T1446 <i>Cipadessa baccifera</i>
YA MA	亚麻	Common Flax	T3859 <i>Linum usitatissimum</i>
YA MA XUN BAI HE	亚马逊百合*	Amazon lily	T2524 <i>Eucharis amazonica</i>
YA MA XUN MA QIAN ZI	亚马逊马钱子	Amazonian Poisonnut*	T6165 <i>Strychnos amazonica</i>
YA MA XUN YU TENG	亚马逊鱼藤*	Amazonian Jewelvine*	T2117 <i>Derris amazonica</i>
YA MA ZI	亚麻子	Common Flax Seed	T3860 <i>Linum usitatissimum</i>
YA MAI JIA DU YU DOU	牙买加毒鱼豆	<i>Piscidia erythrina</i>	T4977 <i>Piscidia erythrina</i>
YA MAI JIA KU MU	牙买加苦木	Jamaica Quassia-wood	T4880 <i>Picrasma excelsa</i>
YA MAI JIA YING TAO	牙买加樱桃	Jamaica Cherry*	T4314 <i>Muntingia calabura</i>
YA MEI DUI XIN JU	雅美堆心菊*	Elegant Sneezeweed*	T3137 <i>Helenium elegans</i>
YA PIAN	鸦片	Opium	T4635 <i>Papaver somniferum</i>
YA RONG GAI RU GU	亚绒盖乳菇	Subtomentose Milky*	T3655 <i>Lactarius subvellereus</i>
YA ZHI CAO	鸭跖草	Common Dayflower	T1633 <i>Commelina communis</i>
YA ZHI TUO WU	雅致橐吾*	Elegant Goldenray*	T3804 <i>Ligularia elegans</i>
YA ZHOU DU HUO	亚洲独活*	Asian Cowparsnip*	T3215 <i>Heracleum lanatum</i> var. <i>asiaticum</i>
YA ZHOU SHI	亚洲薺	Asiatic Yarrow	T0061 <i>Achillea asiatica</i>
YA ZHOU WEN SHU LAN	亚洲文殊兰*	Grand Crinum	T1794 <i>Crinum asiaticum</i>
YAN BAI CAI	岩白菜	Purple Bergenia	T0924 <i>Bergenia purpurascens</i>
YAN CAO	烟草	Common Tobacco	T4428 <i>Nicotiana tabacum</i>
YAN CAO HUA SHAN GENG CAI	烟草花山梗菜*	Nicotianflower Lobelia*	T3901 <i>Lobelia nicotianaefolia</i>
YAN DI FENG MAO JU	盐地风毛菊	Saline Saussurea	T5768 <i>Saussurea salsa</i>
YAN DI HE	盐地禾	Big Cord-grass	T6063 <i>Spartina cynosuroides</i>
YAN FENG	岩凤	Buchtorm Libanotis	T3796 <i>Libanotis buchtormensis</i>
YAN FU YE	盐麸叶	Chinese Sumac Leaf	T5530 <i>Rhus chinensis</i> [Syn. <i>Rhus semialata</i>]
YAN FU ZI	盐麸子	Chinese Sumac Fruit	T5531 <i>Rhus chinensis</i> [Syn. <i>Rhus semialata</i>]
YAN GUO CAO	烟锅草	East-Asia Low Meadowrue	T6414 <i>Thalictrum thunbergii</i>
YAN HAI TUN CAO	沿海豚草	Oak-of-Cappadocia	T0403 <i>Ambrosia maritima</i>
YAN HU SUO	延胡索(元胡)	Yanhusuo	T1750 <i>Corydalis yanhusuo</i> [Syn. <i>Corydalis turtchaninovii</i> f. <i>yanhusuo</i>]
YAN HUANG LIAN	岩黄连	Rockliving Corydalis	T1747 <i>Corydalis thalictrifolia</i>
YAN JIAO CAO	岩椒草	White Chinaure	T0964 <i>Boenninghausenia albiflora</i>
YAN JIAO CAO SUO SUO	盐角草梭梭*		T3094 <i>Haloxylon salicornicum</i>
YAN JIN	烟堇	Schleicher Fumitory	T2809 <i>Fumaria schleicheri</i>
YAN JIN CAI	岩筋菜	Tibet Berneuxine	T0926 <i>Berneuxia thibetica</i>
YAN LAI HONG	雁来红	Three-coloured Amaranth	T0389 <i>Amaranthus tricolor</i>
YAN LAN CAO	岩兰草	Vetiver	T6733 <i>Vetiveria zizanioides</i>
YAN LING CAO	延龄草	Tschonosk Trillium	T6535 <i>Trillium tschonoskii</i>
YAN MAI	燕麦	Oat	T0833 <i>Avena sativa</i>
YAN MU	胭木	Tomentose Wrightia	T6834 <i>Wrightia tomentosa</i>
YAN QU MEI	烟曲霉		T0755 <i>Aspergillus fumigatus</i>
YAN SE LONG YAN	烟色龙眼	Smoke Longan*	T2184 <i>Dimocarpus fumatus</i>
YAN SHENG JIA MU ZEI	盐生假木贼	Saltliving Anabasis	T0437 <i>Anabasis salsa</i>
YAN SHENG ROU CONG RONG	盐生肉苁蓉	Saline Cistanche	T1456 <i>Cistanche salsa</i>

YAN TIAN JIE CAI	盐天芥菜	Curassow Heliotrope*	T3169 <i>Heliotropium curassavicum</i>
YAN XIANG JU	岩香菊	Lavanduleaf Chrysanthemum	T1394 <i>Chrysanthemum lavandulifolium</i>
YAN YANG CHUN	烟洋椿	Cigarbox Cedrela	T1277 <i>Cedrela odorata</i>
YAN ZHOU JUAN BAI	兖州卷柏	Involute Spikemoss	T5862 <i>Selaginella involvens</i>
YANG CHANG CHUN TENG	洋常春藤	English Ivy	T3112 <i>Hedera helix</i>
YANG CONG	洋葱	Common Onion	T0311 <i>Allium cepa</i>
YANG DAO DOU	洋刀豆	Sword-bean	T1168 <i>Canavalia ensiformis</i>
YANG HONG SHAN	羊红膶	Thellung Pimpinella	T4902 <i>Pimpinella thelungiana</i>
YANG JIAN QIU LUO	洋剪秋罗	German Catchfly	T3951 <i>Lychnis viscaria</i>
YANG JIAO AO ZI	羊角拗子	Divaricate Strophanthus Seed	T6155 <i>Strophanthus divaricatus</i>
YANG JIAO MIAN	羊角棉	Maire Alstonia	T0371 <i>Alstonia mairei</i>
YANG JIAO TENG	羊角藤	Common Indianmulberry	T4286 <i>Morinda umbellata</i>
YANG JIN HUA	洋金花	Hindu Datura Flower	T2044 <i>Datura metel</i>
YANG LI	洋李	Garden Plum	T5222 <i>Prunus domestica</i>
YANG MEI	杨梅	Chinese Waxmyrtle	T4348 <i>Myrica rubra</i>
YANG MEI CHANG SHAN	杨梅常山	Bayberry Glorybower*	T1560 <i>Clerodendron myricoides</i>
YANG MEI SHU PI	杨梅树皮	Chinese Waxmyrtle Bark	T4349 <i>Myrica rubra</i>
YANG OU XIA ZHI CAO	洋欧夏至草	Peregrine Hoarhound	T4111 <i>Marrubium peregrinum</i>
YANG PI	羊皮	Goat Hide	T1181 <i>Capra hircus; Ovis aries</i>
YANG PU TAO YE	洋蒲桃叶	Samalanga Syzygium	T6268 <i>Syzygium samarangense</i>
YANG QIAN CAO	洋茜草	Madder	T5584 <i>Rubia tinctorum</i>
YANG QING LAN	岩青兰	Rupestrine Dragonhead	T2258 <i>Dracocephalum rupestre</i>
YANG RU	羊乳	Goat Milk	T1182 <i>Capra hircus; Ovis aries</i>
YANG SHI CAO	洋蓍草	Common Yarrow	T0065 <i>Achillea millefolium</i>
YANG SHI GUO	羊屎果	Duhat	T6266 <i>Syzygium cumini</i>
YANG TAO	洋桃	Carambola; Country Gooseberry	T0834 <i>Averrhoa carambola</i>
YANG TI	羊蹄	Japanese Dock	T5611 <i>Rumex japonicus</i>
YANG TONG	杨桐	Japanese Clevera	T1571 <i>Cleyera ochracea</i> [Syn. <i>Cleyera japonica</i>]
YANG WO BAN DENG GUO	仰卧板凳果*	Prostrate Pachysandra*	T4574 <i>Pachysandra procumbens</i>
YANG XIN TIAN JIE CAI	仰心天芥菜*	Supine Heliotrope*	T3182 <i>Heliotropium supinum</i>
YANG YE AN	杨叶桉	Bimble Box	T2516 <i>Eucalyptus populnea</i>
YANG YE XIAO JIN	杨叶肖槿	Portiatree	T6432 <i>Thespesia populnea</i> [Syn. <i>Hibiscus populneus</i>]
YANG YE YIN BEI TENG	杨叶银背藤	Poplar-leaf Argyreia*	T0615 <i>Argyrea populifolia</i>
YANG YI	羊胰	Goat Pancreas	T1183 <i>Capra hircus; Ovis aries</i>
YANG ZI XIAO LIAN QIAO	扬子小连翘	Faber's St. John'swort	T3350 <i>Hypericum faberi</i>
YAO HUA XIANG CHA CAI	茺花香茶菜	Stringbushlike Rabdosia	T3535 <i>Isodon wikstroemioides</i>
YAO SHU KUI	药蜀葵	Marshmallow	T0381 <i>Althaea officinalis</i>
YAO SHU LI	药鼠李	Common Buckthorn	T5454 <i>Rhamnus cathartica</i>
YAO SHUI BA JIAO	药水八角	Gratiola	T3061 <i>Gratiola officinalis</i>
YAO SHUI SU	药水苏	Medicinal Betonica	T0929 <i>Betonica officinalis</i>
YAO SHUI SU JUE CHUANG	药水苏爵床*		T3605 <i>Justicia betonica</i>
YAO XI GUA	药西瓜	Wild Gourd	T1460 <i>Citrullus colocynthis</i>
YAO YONG AN XI XIANG	药用安息香	Drug Snowbell	T6202 <i>Styrax officinalis</i>
YAO YONG BAI QIAN	药用白前	White Swallow-wort	T6763 <i>Vincetoxicum officinale</i> [Syn. <i>Cynanchum vincetoxicum</i>]
YAO YONG DAN SHEN	药用丹参*	Medicinal Sage	T5682 <i>Salvia officinalis</i>
YAO YONG DAN SHEN YE	药用丹参叶*	Medicinal Sage Leaf	T5683 <i>Salvia officinalis</i>
YAO YONG DANG GUI	药用当归*	Medicinal Angelica*	T0489 <i>Angelica officinalis</i>
YAO YONG DAO TI HU	药用倒提壶	Common Houndstongue	T1969 <i>Cynoglossum officinale</i>
YAO YONG GAN ZHE	药用甘蔗*	Sugarcane	T5641 <i>Saccharum officinarum</i>
YAO YONG GOU YA HUA	药用狗牙花	Official Ervatamia*	T2445 <i>Ervatamia officinalis</i>
YAO YONG HEI MIAN SHEN YE	药用黑面神叶*	Medicinal Breynia Leaf*	T1026 <i>Breynia officinalis</i>

YAO YONG MU DAN	药用牡丹	Kingsbloom	T4587 <i>Paeonia officinalis</i>
YAO YONG NIU SHE CAO	药用牛舌草	Alkanet	T0447 <i>Anchusa officinalis</i>
YAO YONG PU GONG YING	药用蒲公英	Officinal Dandelion	T6303 <i>Taraxacum officinale</i>
YAO YONG QIAN HU	药用前胡	Hog's Fennel	T4764 <i>Peucedanum officinale</i>
YAO YONG QIU GUO ZI JIN	药用球果紫堇	Medicinal Fumaria	T2807 <i>Fumaria officinalis</i>
YAO YONG SHE CHUANG	药用蛇床	Medicinal Ligusticum	T1583 <i>Cnidium officinale</i> [Syn. <i>Ligusticum officinale</i>]
YAO YONG XUN YI CAO	药用薰衣草	Medicinal Lavender*	T3728 <i>Lavandula officinalis</i>
YAO YONG ZI TAN	药用紫檀*	Medicinal Padauk*	T5303 <i>Pterocarpus officinalis</i>
YE AI HAO	野艾蒿	Lavenderleaf Wormwood	T0681 <i>Artemisia lavandulaefolia</i>
YE BAI HE	野百合	Purpleflower Crotalaria	T1831 <i>Crotalaria sessiliflora</i>
YE CAO MEI	野草莓	European Strawberry	T2764 <i>Fragaria vesca</i>
YE DIAN QIE	野颠茄	Soda-apple Nightshade	T6014 <i>Solanum surattense</i>
YE DU ZHONG	野杜仲	Largeflower Euonymus	T2541 <i>Euonymus grandiflorus</i>
YE GAN CAO	野甘草	Sweet Broomwort	T5818 <i>Scoparia dulcis</i>
YE GU	野菰	Indian Aeginetia	T0195 <i>Aeginetia indica</i>
YE GUAN MEN	夜关门	Cuneate Lespedeza	T3770 <i>Lespedeza cuneata</i>
YE GUO QIE	叶果茄*	Leafy-fruited Nightshade	T6011 <i>Solanum sarrachoides</i>
YE HAI JIAO	野海椒	Twoflower Jerusalemcherry	T5993 <i>Solanum capsicastrum</i>
YE HE HUA	夜合花	Chinese Magnolia Flower	T4036 <i>Magnolia coco</i>
YE HEI YING	野黑樱	Wild Rum-cherry	T5240 <i>Prunus serotina</i>
YE HEI ZHONG CAO	野黑种草	Devil-in-a-bush	T4430 <i>Nigella arvensis</i>
YE HUA	夜花	Nightjasmine	T4453 <i>Nyctanthes arbor-tristis</i>
YE HUA HUI MAO DOU	夜花灰毛豆	Long Inflorescence Tephrosia	T6337 <i>Tephrosia noctiflora</i>
YE HUA JIAO GEN	野花椒根	Flatspine Pricklyash Root	T6893 <i>Zanthoxylum simulans</i>
YE HUA JIAO PI	野花椒皮	Flatspine Pricklyash Bark	T6894 <i>Zanthoxylum simulans</i>
YE HUA JIAO YE	野花椒叶	Flatspine Pricklyash Leaf	T6895 <i>Zanthoxylum simulans</i>
YE HUANG PI	野黄皮	Henry Wampee	T1533 <i>Clausena dentata</i>
YE JIANG	野姜	Cassumuna Ginger*	T6908 <i>Zingiber cassumunar</i>
YE JIAO TENG	夜交藤	Tuber Fleecflower Stem	T5108 <i>Polygonum multiflorum</i>
YE JIE	野芥*	Wild Cabbage	T1013 <i>Brassica oleracea</i>
YE JU	野菊	Indian Wild Chrysanthemum	T1392 <i>Chrysanthemum indicum</i>
YE JU HUA	野菊花	Indian Wild Chrysanthemum Flower	T1393 <i>Chrysanthemum indicum</i>
YE JUE MING	野决明	Wild Thermopsis	T6429 <i>Thermopsis lupinoides</i>
YE LI ZHI YE	野梨枝叶	Callery Pear Branch-leaf	T5363 <i>Pyrus calleryana</i>
YE MAI YIN BEI TENG	叶脉银背藤*	Veined Argyreia	T0614 <i>Argyreia nervosa</i>
YE MING SHA	夜明砂	Bat Dung	T6732 <i>Vespertilio superans</i>
YE MU GUA	野木瓜	Chinese Stauntonvine	T6099 <i>Stauntonia chinensis</i>
YE MU XU	野苜蓿	Sickle Alfalfa	T4147 <i>Medicago falcata</i>
YE OU BAI JIE	野欧白芥	Charlock	T5959 <i>Sinapis arvensis</i>
YE QI SHU YE	野漆树叶	Woods Lcaquertree Leaf	T5537 <i>Rhus sylvestris</i>
YE QI SHU ZI	野漆树子	Woods Lcaquertree	T5538 <i>Rhus sylvestris</i>
YE SHAN HUA	野扇花	Willowleaf Sarcococca	T5732 <i>Sarcococca saligna</i>
YE SHAN ZHA	野山楂	Nippon Hawthorn	T1769 <i>Crataegus cuneata</i>
YE SHENG MA	野升麻	Kamchatka Bugbane	T1425 <i>Cimicifuga simplex</i>
YE SHENG QIAN LI GUANG	野生千里光*	Heath Groundsel	T5913 <i>Senecio sylvaticus</i>
YE SHENG SHAN YING TAO	野生山櫻桃*		T5241 <i>Prunus serrulata</i> var. <i>spontanea</i>
YE SUI XIANG CHA CAI	叶穗香茶菜	Leafspike Rabdosia	T3519 <i>Isodon phyllostachys</i>
YE TAI	叶苔		T6550 <i>Trocholejeunea sandvicensis</i>
YE WO JU	野葛苳	Prickly Lettuce	T3663 <i>Lactuca serriola</i>
YE WU TONG	野梧桐	Japanese Mallotus	T4082 <i>Mallotus japonicus</i>
YE XIA ZHU	叶下珠	Common Leafflower	T4843 <i>Phyllanthus urinaria</i>
YE XIANG GE MU	叶香格木	Fragrant Erythrophleum	T2487 <i>Erythrophleum suaveolens</i>

YE XIANG MAO	野香茅	Goering Lemongrass	T1943 <i>Cymbopogon goeringii</i>
YE XIANG SHU	夜香树	Nightblooming Cestrum	T1338 <i>Cestrum nocturnum</i>
YE YA CHUN	野鸦椿	Common Euscaphis	T2636 <i>Euscaphis japonica</i>
YE YAN YE	野烟叶	Mullein Nightbrier Leaf	T6018 <i>Solanum verbascifolium</i>
YE YING SU	野罌粟	Iceland Poppy	T4629 <i>Papaver nudicaule</i>
YE YU	野芋	Taro	T1624 <i>Colocasia antiquorum</i>
YE ZHI MA	野芝麻	Barbate Deadnettle	T3681 <i>Lamium barbatum</i>
YE ZHU DAN	野猪胆	Wild Boar Gall	T6205 <i>Sus scrofa</i>
YE ZI	椰子	Coconut	T1591 <i>Cocos nucifera</i>
YE ZI PI	椰子皮	Coconut Root-bark	T1592 <i>Cocos nucifera</i>
YE ZI RANG	椰子瓤	Coconut Albumen	T1593 <i>Cocos nucifera</i>
YE ZI YOU	椰子油	Coconut Oil	T1594 <i>Cocos nucifera</i>
YI BAO MA HUA TOU	缢苞麻花头	Contracted Sawwort	T5922 <i>Serratula strangulata</i>
YI BEI MU	伊贝母	Siberian Fritillary	T2790 <i>Fritillaria pallidiflora</i>
YI BI LI YA LI	伊比利亚栎	Iberian Oak*	T5373 <i>Quercus iberica</i>
YI BI LI YA SHUI XIAN	伊比利亚水仙	Iberian Narcissus*	T4374 <i>Narcissus bujei</i>
YI BIAN HE SHE ZAO	易变褐舌藻*		T6067 <i>Spatoglossum variabile</i>
YI BIAN HUANG TAN	易变黄檀	Variable Rosewood*	T2018 <i>Dalbergia variabilis</i>
YI CAO	藨草	Reed Canary-grass	T4777 <i>Phalaris arundinacea</i>
YI CHI LING JU	翼翅苓菊*	Winged Jurinea*	T3604 <i>Jurinea alata</i>
YI DA LI JIASNG NAN XING	意大利疆南星	Italian Arum	T0719 <i>Arum italicum</i>
YI DA LI JUE MING ZI	意大利决明子	Italian Senna*	T1234 <i>Cassia italika</i>
YI DA LI LA JU	意大利蜡菊*	Italian Everlasting*	T3158 <i>Helichrysum italicum</i>
YI DIAN HONG	一点红	Sowthistle Tasselflower	T2357 <i>Emilia sonchifolia</i>
YI GENG WU WEI ZI	翼梗五味子	Henry Magnoliavine	T5793 <i>Schisandra henryi</i>
YI HE GUO	翼核果	Smoothfruit Ventilago	T6689 <i>Ventilago leiocarpa</i>
YI HUA	仪花	Redbracted Lysidice	T3995 <i>Lysidice rhodostegia</i>
YI HUA MU LAN	异花木兰	Different-flowered Indigo	T3422 <i>Indigofera heteranthazha</i>
YI HUA WU ZHU YU	异花吴茱萸		T2639 <i>Evodia baberi</i>
YI KA TUO YE HUANG TAN	伊卡托叶黄檀	Ecasto-leaf Rosewood*	T2002 <i>Dalbergia ecastophyllum</i>
YI KANG BA DOU	益康巴豆*	Salutary Croton*	T1854 <i>Croton salutaris</i>
YI KOU KE MEI	一口可梅	Coco-plum	T1401 <i>Chrysobalanus icaco</i>
YI KUA	伊夸	Manyflower Wormwood	T0687 <i>Artemisia myriantha</i>
YI LAN	依兰	Fragrant Gananga	T1164 <i>Cananga odorata</i>
YI LANG A WEI	伊朗阿魏	Iran Giantfennel*	T2703 <i>Ferula kuhistanica</i>
YI LANG QING LAN	伊朗青兰*	Iran Dragonhead*	T2256 <i>Dracocephalum kotschyi</i>
YI LI CUI QUE HUA	伊犁翠雀花	Ili Larkspur	T2078 <i>Delphinium iliense</i>
YI LI LI YA DA CHI JI	伊利里亚大翅蓟*	Illyrian Cottonthistle*	T4497 <i>Onopordum illyricum</i>
YI LI NUO HE HUAN CAO	伊利诺合欢草	Prairie Mimosa	T2127 <i>Desmanthus illinoensis</i>
YI LYE GAN LAO JUN	易裂干酪菌*	Easy-lobed Tyromyces*	T6589 <i>Tyromyces fissilis</i>
YI MEI NI A BU TA CAO	依美尼阿布塔草		T0013 <i>Abuta imene</i>
YI MI	薏米	Adlay	T1613 <i>Coix lacryma-jobi</i>
YI MU CAO	益母草	Wormwood-like Motherwort	T3752 <i>Leonurus heterophyllus</i> [Syn. <i>Leonurus artemisia</i>]
YI NIAN PENG	一年蓬	Annual Fleabane	T2421 <i>Erigeron annuus</i>
YI NIAN SHENG SHAN DIAN	一年生山靛	Annual Mercury	T4196 <i>Mercurialis annua</i>
YI PAO NANG CAO	翼泡囊草	Winged Physochlaina*	T4857 <i>Physochlaina alaica</i>
YI PIN HONG	一品红	Common Poinsettia	T2614 <i>Euphorbia pulcherrima</i>
YI SI CUI QUE	疑似翠雀*	Confusable Larkspur*	T2067 <i>Delphinium confusum</i>
YI SI MEI GUI SHU	疑似玫瑰树	Confusable Ochrosia	T4468 <i>Ochrosia confusa</i>
YI WA JU	依瓦菊	Sumpweed	T3543 <i>Iva frutescens</i>
YI WO SI JING TIAN	伊沃斯景天	Ewers Stonecrop*	T5854 <i>Sedum ewersii</i>
YI XIAN HAI CONG	一现海葱*		T6648 <i>Urginea fugax</i>

YI XIAN YING SU	一现罌粟*	Fugacious Poppy*	T4628 <i>Papaver fugax</i>
YI XING NAN WU WEI ZI	异型南五味子	Curious Kadsura	T3614 <i>Kadsura heteroclita</i> [Syn. <i>Uvaria heteroclita</i>]
YI XING TANG SONG CAO	异性唐松草	Early Meadowrue	T6379 <i>Thalictrum dioicum</i>
YI YANG HE BAO MU DAN	异样荷包牡丹*	Peregrin Bleedingheart*	T2152 <i>Dicentra peregrina</i>
YI YE BAI JIANG	异叶败酱(墓头回)	Diversifolious Patrinia	T4670 <i>Patrinia heterophylla</i>
YI YE JIA FAN LV	异叶假繁缕(太子参)	Heterophylla Falsestarwort	T5260 <i>Pseudostellaria heterophylla</i>
YI YE LIANG WANG CHA	异叶梁王茶	David Falsepanax	T4444 <i>Nothopanax davidii</i>
YI YE MEI DENG MU	异叶美登木	Heteroleaf Mayten*	T4133 <i>Maytenus heterophylla</i>
YI YE QIU	一叶萩	Suffrutescent Securinega	T5848 <i>Securinega suffruticosa</i>
YI YE ROU TUO GUO	异叶肉托果	Heteroleaf Markingnut*	T5873 <i>Semecarpus heterophylla</i>
YI YE TIAN NAN XING	异叶天南星	Diversileaf Jackinthepulpit	T0620 <i>Arisaema heterophyllum</i>
YI YE TIE SHAN	异叶铁杉	Western Hemlock	T6558 <i>Tsuga heterophylla</i>
YI YE WU TOU	异叶乌头	Heteroleaf Monkshood*	T0103 <i>Aconitum heterophyllum</i>
YI YE YANG	异叶杨	Swamp Cottonwood	T5152 <i>Populus heterophylla</i>
YI YE REN	薏苡仁	Jobstears Seed	T1614 <i>Coix lacryma-jobi</i> var. <i>ma-yuen</i>
YI ZHI HAO	一支蒿	Alpine Yarrow	T0060 <i>Achillea alpina</i> [Syn. <i>Achillea sibirica</i>]
YI ZHI HUANG HUA	一枝黄花	Common Goldenrod	T6024 <i>Solidago virgaurea</i> var. <i>leiocarpa</i> [Syn. <i>Solidago decurrens</i>]
YI ZHI REN	益智仁	Sharpleaf Galangal	T0360 <i>Alpinia oxyphylla</i>
YI ZHI XIANG	一支香	Bastard Speedwell	T6729 <i>Veronica spuria</i>
YI ZHU AI MA HUANG	异株矮麻黄	Dioecious Small Ephedra	T2374 <i>Ephedra minuta</i> var. <i>dioeca</i>
YI ZHU QIAN MA	异株荨麻	Dioecious Nettle	T6652 <i>Urtica dioica</i>
YI ZU SUO SHA CAN	异足索沙蚕	Heterofoot Lumbrinereis*	T3937 <i>Lumbriconeis heteropoda</i>
YIN BAI HUANG YANG	银白黄杨*	Argentine Box*	T1085 <i>Buxus argentea</i>
YIN BAI JIN HE HUAN	银白金合欢*	Silver Wattle	T0020 <i>Acacia dealbata</i>
YIN BAI QI	银白槭	Silver Maple	T0055 <i>Acer saccharinum</i>
YIN BAI QIAN LI GUANG	银白千里光*	Silver Ragwort	T5885 <i>Senecio cineraria</i>
YIN BAI YANG	银白杨	White Aspen	T5145 <i>Populus alba</i>
YIN BIAN LONG SHE LAN	银边龙舌兰	Silveredge Agave	T0218 <i>Agave angustifolia</i> var. <i>marginata</i>
YIN BU HUAN	银不换	Barbate Cyclea	T1931 <i>Cyclea barbata</i>
YIN CHAI HU	银柴胡	Lanceolate Starwort	T6104 <i>Stellaria dichotoma</i> var. <i>lanceolata</i>
YIN CHEN HAO	茵陈蒿	Capillary Wormwood	T0672 <i>Artemisia capillaris</i>
YIN DI KUAN YE XIANG CHA CAI	阴地宽叶香茶菜	Shady Broadleaf Rabdosia*	T3532 <i>Isodon umbrosa</i>
YIN DI XIANG CHA CAI	阴地香茶菜	Shady Rabdosia*	T3533 <i>Isodon umbrosa</i> var. <i>latifolia</i>
YIN DU BA QIA	印度菝葜	Ananmul	T3200 <i>Hemidesmus indicus</i>
YIN DU BAI MAO	印度白茅	Cogon Satintail	T3415 <i>Imperata cylindrica</i>
YIN DU DA MA	印度大麻*	Indian Hemp*	T1177 <i>Cannabis sativa</i> var. <i>indica</i>
YIN DU DUO ZHI DA JI	印度多汁大戟	Indian Juicy Euphorbia*	T2603 <i>Euphorbia nivulia</i>
YIN DU E LI	印度鳄梨*	Indian Avocado*	T4733 <i>Persea indica</i>
YIN DU FANG JI	印度防己		T0443 <i>Anamirta paniculata</i>
YIN DU HUANG TAN	印度黄檀	Sisso Rosewood	T2013 <i>Dalbergia sissoo</i>
YIN DU JIA JING JIE	印度假荆芥	Indian Catnip*	T4415 <i>Nepeta hindostana</i>
YIN DU JIU LI XIANG	印度九里香	Indian Common Jasminorange	T4319 <i>Murraya koenigii</i>
YIN DU KUAI JUN	印度块菌	Indian Truffle	T6559 <i>Tuber indicum</i>
YIN DU LIAN	印度楝	Neem Tree	T0836 <i>Azadiractia indica</i>
YIN DU LUO FU MU	印度萝芙木	Java Devilpepper	T5442 <i>Rauwolfia serpentina</i>
YIN DU MA DOU LING	印度马兜铃*	Indian Dutchmanspipe*	T0630 <i>Aristolochia indica</i>
YIN DU MAI MA TENG	印度买麻藤	India Jointfir	T3035 <i>Gnetum ula</i>
YIN DU MIAN	印度棉*	Bluntleaf Cotton	T3059 <i>Gossypium indicum</i>
YIN DU MU FANG JI	印度木防己*	Indian Snailseed*	T1585 <i>Cocculus indicus</i>
YIN DU SHAN DAO LIAN YE	印度山道楝叶	Indian Katon	T5708 <i>Sandoricum koetjape</i> [Syn. <i>Sandoricum indicum</i>]

YIN DU SHE GU	印度蛇菇	Indian Balanophora	T0858 <i>Balanophora indica</i> [Syn. <i>Langodorffia indica</i>]
YIN DU SI LI LAN KA YE XIA ZHU	印度斯里兰卡叶下珠*	Indian-Sri-Lankan Leafflower*	T4839 <i>Phyllanthus myritifolius</i>
YIN DU TENG HUANG	印度藤黄*	Indian Garcinia*	T2859 <i>Garcinia indica</i>
YIN DU WA ER TENG	印度娃儿藤	Indian Tylophora*	T6577 <i>Tylophora asthmatica</i> [Syn. <i>Tylophora indica</i>]
YIN DU XIE HAO	印度邪蒿	Indian Seseli*	T5932 <i>Seseli indicum</i>
YIN DU YA JIAO SHU	印度鸭脚树	Venous Alstonia*	T0377 <i>Alstonia venenata</i>
YIN DU ZANG HUI XIANG	印度藏茴香	India Caraway*	T1216 <i>Carum ajowan</i>
YIN DU ZHI NA BAI BU	印度支那百部*	Indochina Stemona*	T6108 <i>Stemona cochinchinensis</i>
YIN FEN BAO CHUN	银粉报春	Pulverulent Primrose	T5203 <i>Primula pulverulenta</i>
YIN HE HUAN	银合欢	Hedge Acacia	T3778 <i>Leucaena glauca</i> [Syn. <i>Leucaena leucocephala</i>]
YIN HUA	银桦	Robust Silk Oak	T3063 <i>Grevillea robusta</i>
YIN HUA YAO XIAO YING QIN	隐花药小鹰芹*		T0840 <i>Azorella cryptantha</i>
YIN JIAN	印楝	Indica Melia*	T4161 <i>Melia indica</i>
YIN JIAO JU	银胶菊	Common Parthenium	T4660 <i>Parthenium hysterophorus</i>
YIN JU CHUAN BEI HAI MIAN	隐居穿贝海绵	Burrowing sponge	T1575 <i>Cliona celata</i>
YIN MAO XIAO YUN MU	硬毛小芸木*	Hairy Micromelum*	T4222 <i>Micromelum hirsutum</i>
YIN MIAN YU	印缅榆	Vellayim	T3271 <i>Holoptelea integrifolia</i>
YIN NI MIAN BAO GUO	印尼面包果	Cempedak	T0710 <i>Artocarpus champeden</i>
YIN SE MI ZI LAN	银色米仔兰	Argenti Aglaia*	T0231 <i>Aglaia argentea</i>
YIN XIAN CAO	银线草	Japanese Chloranthus	T1371 <i>Chloranthus japonicus</i>
YIN XING CAO	阴行草	Chinese Siphonostegia	T5966 <i>Siphonostegia chinensis</i>
YIN YANG HUO	淫羊藿	Shorthorned Epimedium	T2390 <i>Epimedium brevicornum</i>
YIN YANG HUO GEN	淫羊藿根	Shorthorned Epimedium Root	T2391 <i>Epimedium brevicornum</i>
YIN YE SHU	银叶薯*	Silverleaf Morningglory*	T3445 <i>Ipomoea argyrophylla</i>
YIN YU	茵芋	Reeves Skimmia	T5972 <i>Skimmia reevesiana</i>
YIN ZHOU CHAI HU	银洲柴胡	Yinchow Thorowax	T1079 <i>Bupleurum yinchowense</i>
YING BU BO	鹰不泊	Avicenna's Pricklyash	T6866 <i>Zanthoxylum avicennae</i>
YING CHUN HUA	迎春花	Winter Jasmine	T3555 <i>Jasminum nudiflorum</i>
YING GUO OU SHI NAN	英国欧石南	Cornish Heath	T2419 <i>Erica vagans</i>
YING GUO SHAN ZHA	英国山楂	Hawthorn	T1774 <i>Crataegus oxyacantha</i>
YING HE	硬核	Wallich Scleropyrum	T5815 <i>Scleropyrum wallichianum</i>
YING HE CI TONG	硬核刺桐	Hardhilum Coralbean*	T2468 <i>Erythrina lithosperma</i>
YING HUA XIANG CHA CAI	瘿花香茶菜	Rosthorn Rabdosia	T3520 <i>Isodon rosthornii</i>
YING MAO HU JIAO	硬毛胡椒	Hispid Pepper*	T4949 <i>Piper hispidum</i>
YING MAO JIN SI TAO	硬毛金丝桃	Hairy St. John's wort	T3355 <i>Hypericum hirsutum</i>
YING MAO TI GEN CAO	硬毛嚏根草	Hairy Hellebore*	T3185 <i>Helleborus orientalis</i> var. <i>hirsutus</i>
YING MAO TIAN JIE CAI	硬毛天芥菜*	Hairy Heliotrope*	T3173 <i>Heliotropium hirsutum</i>
YING PI HE YE LAN	硬皮禾叶兰	Callose Agrostophyllum	T0254 <i>Agrostophyllum callosum</i>
YING SHAN HONG	迎山红	Korean Rhododendron	T5519 <i>Rhododendron mucronulatum</i>
YING SHUI HUANG LIAN	硬水黄连	Slim-top Meadowrue	T6409 <i>Thalictrum simplex</i> [Syn. <i>Thalictrum simplex</i> var. <i>brevipes</i>]
YING SU	罂粟	Opium Poppy	T4636 <i>Papaver somniferum</i>
YING SU KE	罂粟壳	Opium Poppy Pericarp	T4637 <i>Papaver somniferum</i>
YING TAO	樱桃	Falsesour Cherry	T5236 <i>Prunus pseudocerasus</i>
YING TAO FAN QIE	樱桃番茄	Cherry Tomato*	T3963 <i>Lycopersicon esculentum</i> var. <i>cerasiforme</i>
YING YE JIA MI	樱叶荚蒾	Blackhaw	T6739 <i>Viburnum prunifolium</i>
YING YE NV LOU CAI	硬叶女娄菜	Robust Silene*	T5953 <i>Silene firma</i>
YING ZHAO	鹰爪	Sixpetal Tailgrape	T0653 <i>Artabotrys hexapetalus</i> [Syn. <i>Annona hexapetalus</i>]

YING ZHAO DOU	鹰爪豆	Weaversbroom	T6064 <i>Spartium junceum</i>
YING ZHAO DOU ZHU SHI DOU	鹰爪豆猪屎豆*	Sparteine Crotalaria*	T1833 <i>Crotalaria spartioides</i>
YING ZHI YE TAI	硬指叶苔		T3763 <i>Lepidozia vitrea</i>
YING ZI CAO	蝇子草	Catch-fly	T5954 <i>Silene fortunei</i>
YONG CHONG CAO	蛹虫草	Scarlet Caterpillar Fungus	T1680 <i>Cordyceps militaris</i>
YONG NING DU HUO	永宁独活	Yungning Cowparsnip	T3228 <i>Heracleum yungningense</i>
YOU AN DI JIN	幽暗地锦*	Stygian Euphorbia*	T2621 <i>Euphorbia stygiana</i>
YOU BING SHI WEI	有柄石韦	Petioled Pyrrosia Frond	T5358 <i>Pyrrosia petiolosa</i>
YOU CAI ZI	油菜籽	Rapeseed*	T1011 <i>Brassica napus</i> var. <i>napus</i>
YOU CHA GEN PI	油茶根皮	Oiltea Camellia Root-bark	T1147 <i>Camellia oleifera</i>
YOU CHOU YE ZHI MA	鼬臭野芝麻*	Stoat-osmyl Deadnettle*	T3682 <i>Lamium galeobdolon</i>
YOU CI PO BU MU	有刺破布木	Spined Cordia*	T1679 <i>Cordia spinescens</i>
YOU DIAN WEI MAO	疣点卫矛	Verrucatespot Euonymus	T2548 <i>Euonymus verrucosides</i>
YOU GAN GEN	油柑根	Emblic Leafflower Root	T4835 <i>Phyllanthus emblica</i>
YOU GAN LAN	油橄榄	Common Olive	T4487 <i>Olea europaea</i>
YOU GAN LAN JIU JIE	油橄榄九节	Olive Ninenode*	T5277 <i>Psychotria oleoides</i>
YOU GAN MU PI	油柑木皮	Emblic Leafflower Bark	T4836 <i>Phyllanthus emblica</i>
YOU GAN YE	油柑叶	Emblic Leafflower Leaf	T4837 <i>Phyllanthus emblica</i>
YOU GOU YING ZHAO	有钩鹰爪*	Uncinate Tailgrape*	T0657 <i>Artabotrys uncinatus</i>
YOU GUO DOU KOU	疣果豆蔻	Wartyfruit Amomum	T0418 <i>Amomum muricarpum</i>
YOU HE	柚核	Pummelo Seed	T1479 <i>Citrus grandis</i>
YOU KA MEI JU	尤卡美菊	Juanislama (in Salvador)	T1111 <i>Calea urticifolia</i>
YOU MU	柚木	Common Teak	T6325 <i>Tectona grandis</i>
YOU PU TAO YOU ZA JIAO	柚葡萄柚杂交种		T1480 <i>Citrus grandis</i> cv. x <i>Citrus paradisi</i>
ZHONG			
YOU RUI XIANG	油瑞香	Oily Daphne*	T2029 <i>Daphne oleoides</i>
YOU SE BAN JIU JU	有色斑鸠菊	Colorful Bitterleaf	T6715 <i>Vernonia colorata</i>
YOU SE ZI JIN NIU	有色紫金牛*	Colorate Ardisia*	T0592 <i>Ardisia colorata</i>
YOU XIAN YA JIAO SHU	有限鸭脚树	Limited Alstonia*	T0373 <i>Alstonia restricta</i>
YOU YAN AO TUO SI TE CAO	有檐奥托斯特草	Limbate Otostegia	T4559 <i>Otostegia limbata</i>
YOU YE HUANG QI	油叶黄芪*	Oily-leaf Milkvetch*	T0801 <i>Astragalus oleifolius</i>
YOU YONG PO LEI	有用坡垒*	Utilizable Hopea*	T3281 <i>Hopea utilis</i>
YOU ZONG	油棕	Oilpalm	T2328 <i>Elaeis guineensis</i>
YOU ⁽²⁾	莛	Divaricate Bluebeard	T1221 <i>Caryopteris divaricata</i>
YOU ⁽⁴⁾	柚	Pummelo	T1478 <i>Citrus grandis</i>
YU BAI FU	禹白附	Giant Typhonium	T6588 <i>Typhonium giganteum</i>
YU BAI SHI SONG	玉柏石松	Tree Clubmoss	T3976 <i>Lycopodium obscurum</i>
YU CHUANG MU	愈疮木	Lignum-vitae	T3067 <i>Guajacum officinale</i>
YU DA HUANG	芋大黄		T5478 <i>Rheum</i> sp.
YU DAI GEN	玉带根	Tithymalus-like Pedilanthus	T4686 <i>Pedilanthus tithymaloides</i>
YU ER	榆耳	Incarinate Gloeostereum	T2993 <i>Gloeostereum incarnatum</i>
YU ER QI	鱼儿七	Whiteflower Trillium	T6531 <i>Trillium camtschaticum</i>
YU FU YE XIA ZHU	渔夫叶下珠	Fisherman Leafflower*	T4841 <i>Phyllanthus piscatorum</i>
YU GUO XIAO YE NAN	玉桂小叶楠	Cinnamomi-leaf Phoebe*	T4816 <i>Phoebe cinnamomifolia</i>
YU JIN	郁金	Aromatic Turmeric	T1903 <i>Curcuma aromatica</i>
YU JIN XIANG	郁金香	Common Tulip	T6561 <i>Tulipa gesneriana</i>
YU JIN XIANG GEN	郁金香根	Common Tulip Root	T6562 <i>Tulipa gesneriana</i>
YU JIN XIANG ZA JIAO ZHONG	郁金香杂交种	Tulip Hybrid*	T6563 <i>Tulipa hybrida</i>
YU JU	渝橘	Common Hoptree	T5282 <i>Ptelea trifoliata</i>
YU KE GAN JU	玉克柑桔	Yuko Citrus*	T1522 <i>Citrus yuko</i>
YU LAN	玉兰	Yulan Magnolia	T4038 <i>Magnolia denudata</i> [Syn. <i>Magnolia heptapata</i>]
YU LI REN	郁李仁	Dwarf Flowering Cherry Seed	T5224 <i>Prunus japonica</i> [Syn. <i>Cerasus japonica</i>]

YU LIAO	鱼蓼	Dockleaved Knotweed	T5106 <i>Polygonum lapathifolium</i>
YU LIN CAI	鱼鳞菜	Broadleaf Blainvillea*	T0948 <i>Blainvillea acmella</i> [Syn. <i>Verbesina acmella</i> ; <i>Eclipta latifolia</i> ; <i>Blainvillea latifolia</i>]
YU LIN YUN SHAN	鱼鳞云杉	Yeddo Spruce	T4872 <i>Picea jezoensis</i> var. <i>jezoensis</i>
YU LING HUA	玉铃花	Fragrant Snowbell	T6201 <i>Styrax obassia</i>
YU MI FU	玉米麸	Maize Bran	T6900 <i>Zea mays</i>
YU MI HEI MEI	玉米黑霉	Black-powder Fungus in Corn	T6656 <i>Ustilago maydis</i>
YU MI XU	玉米须	Maize Style	T6901 <i>Zea mays</i>
YU SHAN HU GEN	玉珊瑚根	Jerusalemcherry Root	T6009 <i>Solanum pseudo-capsicum</i>
YU SHU	雨树	Raintree	T5703 <i>Samanea saman</i>
YU SHU	榆树	Siberian Elm	T6597 <i>Ulmus pumila</i>
YU SHU SHU	玉蜀黍	Maize	T6902 <i>Zea mays</i>
YU TENG	鱼藤	Trifoliate Jewelvine	T2124 <i>Derris trifoliata</i>
YU XIANG CAO	鱼香草	Apple Mint	T4188 <i>Mentha rotundifolia</i>
YU XING CAO	鱼腥草	Heartleaf Houttuynia	T3284 <i>Houttuynia cordata</i>
YU YE DING XIANG	羽叶丁香	Pinnateleaf Lilac	T6261 <i>Syringa pinnatifolia</i>
YU YE GUI DENG QING	羽叶鬼灯笼	Featherleaf Rodgersflower	T5555 <i>Rodgersia pinnata</i>
YU YE JIN HUA	玉叶金花	Mussaenda*	T4334 <i>Mussaenda hirsutissim</i>
YU YE MAO MEI	榆叶茅莓	Elm-leaf Raspberry*	T5602 <i>Rubus ulmifolius</i>
YU YE SAN QI	羽叶三七	Bipinnatifid Ginseng	T4604 <i>Panax japonicus</i> var. <i>bipinnatifidus</i>
YU YE SHE PU TAO	羽叶蛇葡萄	Chaffanjon Ampelopsis	T0425 <i>Ampelopsis chaffanjonii</i>
YU YI GAN LAN	羽衣甘蓝	Savoy Cabbage	T1020 <i>Brassica oleracea</i> var. <i>sabauda</i>
YU ZAN YE CHE QIAN	玉簪叶车前*	Jadehairpin-leaf Plantain*	T5005 <i>Plantago hostifolia</i>
YU ZHI ZI	预知子	Fiveleaf Akebia Seed	T0275 <i>Akebia quinata</i>
YU ZHU	玉竹	Fragrant Solomonseal	T5093 <i>Polygonatum odoratum</i> [Syn. <i>Polygonatum officinale</i>]
YU ZHUANG HE HUAN	羽状合欢	Cape Leeuwin Wattle	T0294 <i>Albizzia lophantha</i>
YU ZHUANG YUN XIANG	羽状芸香	Pinnate Rue*	T5630 <i>Ruta pinnata</i>
YUAN BAI	圆柏	Chinese Juniper	T5639 <i>Sabina chinensis</i>
YUAN BAN JIANG HUA	圆瓣姜花	Forrest Gingerlily	T3119 <i>Hedychium forrestii</i>
YUAN BAN XIANG CHA CAI	圆板香茶菜*	Nummulate Rabdosia*	T5014 <i>Plectranthus nummularius</i>
YUAN BAO CAO	元宝草	Sampson St. John'swort	T3363 <i>Hypericum sampsonii</i>
YUAN CAN E	原蚕蛾	Silkworm King	T0977 <i>Bombyx mori</i>
YUAN CAN SHA	原蚕沙	Silkworm Feculae	T0978 <i>Bombyx mori</i>
YUAN CAN ZI	原蚕子	Silkworm Egg	T0979 <i>Bombyx mori</i>
YUAN CHI KU MU	圆齿苦木	Crenate Quassiaewood*	T4879 <i>Picrasma crenata</i>
YUAN CONG HONG JING TIAN	园丛红景天	Jupar Rhodiola	T5496 <i>Rhodiola juparensis</i>
YUAN DANG GUI	圆当归	Angelica	T0477 <i>Angelica archangelica</i>
YUAN DONG JIU LI XIANG	远东九里香	Siamense Common Jasminorange	T4327 <i>Murraya siamensis</i>
YUAN E CI XU DUAN	圆萼刺续断	Chinese Morina	T4279 <i>Morina chinensis</i>
YUAN GUO GAN CAO	圆果甘草	Roundfruit Licorice	T3021 <i>Glycyrrhiza squamulosa</i>
YUAN GUO SUAN PAN ZI	圆果算盘子	Roundfruit Glochidion*	T2989 <i>Glochidion sphaerogynum</i>
YUAN HUA	芫花	Lilac Daphne	T2023 <i>Daphne genkwa</i>
YUAN HUA FAN LI ZHI	圆滑番荔枝	Glabrous Custardapple	T0506 <i>Annona glabra</i>
YUAN HUA GEN	芫花根	Lilac Daphne Root	T2024 <i>Daphne genkwa</i>
YUAN JING HUAN YANG SHEN	芫菁还阳参	Turnip-shaped Hawksbeard	T1789 <i>Crepis napifera</i>
YUAN JU JIN GU CAO	远距筋骨草*	Manybracteole Bugle	T0270 <i>Ajuga remota</i>
YUAN MAO JING JIE	缘毛荆芥	Ciliate Catnip	T4414 <i>Nepeta ciliaris</i>
YUAN MAO XIANG RI KUI	缘毛向日葵	Ciliate Sunflower*	T3148 <i>Helianthus ciliaris</i>
YUAN SHU YU	圆薯蓣	Guinea Yam	T2207 <i>Dioscorea rotundata</i> [Syn. <i>Dioscorea cayenensis</i>]
YUAN WEI	鳶尾(川射干)	Roof Iris	T3471 <i>Iris tectorum</i>
YUAN XING YE GU KE	圆形叶古柯*	Roundleaf Coca Shrub*	T2489 <i>Erythroxylon rotundifolium</i>

YUAN YE BU YING CAO	圆叶捕蝇草	Round-leaf Flytrap*	T2187 <i>Dionaea rotundifolia</i>
YUAN YE CHAI HU	圆叶柴胡	Roundleaf Thorowax*	T1071 <i>Bupleurum rotundifolium</i>
YUAN YE E ZHANG CHAI	圆叶鹅掌柴*	Roundleaf Schefflera*	T5783 <i>Schefflera rotundifolia</i>
YUAN YE FENG LING CAO	圆叶风铃草	Harebell	T1157 <i>Campanula rotundifolia</i>
YUAN YE LU TI CAO	圆叶鹿蹄草	European Pyrola	T5351 <i>Pyrola rotundifolia</i>
YUAN YE MAO GAO CAI	圆叶茅膏菜	Roundleaf Sundew	T2268 <i>Drosera rotundifolia</i>
YUAN YE QIAN NIU ZI	圆叶牵牛子	Roundleaf Pharbitis Seed	T4780 <i>Pharbitis purpurea</i>
YUAN YE SHAN WU GUI	圆叶山乌龟	Roundleaf Corydalis*	T1738 <i>Corydalis rotundatour</i>
YUAN YE TAI	园叶苔		T3553 <i>Jamesoniella colorata</i>
YUAN YE TIAN JIE CAI	圆叶天芥菜*	Roundleaf Heliotrope*	T3179 <i>Heliotropium rotundifolium</i>
YUAN YE ZE LAN	圆叶泽兰	Roundleaf Eupatorium*	T2571 <i>Eupatorium rotundifolium</i>
YUAN ZHI	远志	Thinleaf Milkwort	T5088 <i>Polygala tenuifolia</i>
YUAN ZHI JUAN BAI	圆枝卷柏	Sanguineous Spikemoss	T5866 <i>Selaginella sanguinolenta</i>
YUAN ZHI YE AO ZHOU CHA	远志叶澳洲茶*	Australian Tea-tree	T3767 <i>Leptospermum polygalifolium</i> ssp. <i>polygalifolium</i>
YUAN ZHUI HUA YE LUN MU	圆锥花叶轮木	Paniculate Ostodes*	T4554 <i>Ostodes paniculata</i>
YUAN ZHUI ZHU SHI DOU	圆锥猪屎豆	Paniculate Crotalaria*	T1828 <i>Crotalaria paniculata</i>
YUE GUI SHU YE MU JIANG ZI	月桂树叶木姜子*	Laurelleaf Litsea*	T3891 <i>Litsea laurifolia</i>
YUE GUI XIAO BO	月桂小檗	Laurel-like Barberry	T0909 <i>Berberis laurina</i>
YUE GUI YE	月桂叶	Grecian Laurel Leaf	T3725 <i>Laurus nobilis</i>
YUE GUI YE SHAN YOU GAN	月桂叶山油柑*	Laurel-leaf Acronychia*	T0150 <i>Acronychia laurifolia</i>
YUE GUI ZI	月桂子	Grecian Laurel Fruit	T3726 <i>Laurus nobilis</i>
YUE HAN SI TONG SHAN MA CHA	约翰司通山马茶		T6274 <i>Tabernaemontana johnstonii</i>
YUE HUA	岳桦	Ermans Birch	T0931 <i>Betula ermanii</i>
YUE JI HUA	月季花	Chinese Rose	T5562 <i>Rosa chinensis</i>
YUE JI SHI LIU	月季石榴	Dwarf Pomegranate	T5333 <i>Punica granatum</i> cv. <i>nana</i>
YUE JU YE	越橘叶	Cowberry Leaf	T6673 <i>Vaccinium vitis-idaea</i>
YUE NAN AN XI XIANG	越南安息香	Tonkin Snowbell	T6204 <i>Styrax tonkinensis</i>
YUE NAN LIE LAN	越南裂榄*	Tonkin Bursera*	T1082 <i>Bursera tonkinensis</i>
YUE SI GUA	粤丝瓜	Singkwa Towelgourd	T3933 <i>Luffa acutangula</i>
YUE XI MU XIANG	越西木香	Denticulate Vladimiria	T6801 <i>Vladimiria denticulata</i>
YUE XIAN DA JI	月腺大戟	Ebracteolate Euphorbia	T2584 <i>Euphorbia ebracteolata</i>
YUN NAN BA JIAO	云南八角	Yunnan Anisetree	T3407 <i>Illicium simonsii</i>
YUN NAN CAO KOU	云南草蔻	Yunnan Galangal	T0353 <i>Alpinia blepharocalyx</i>
YUN NAN CHONG LOU	云南重楼	Yunnan Manyleaf Paris	T4652 <i>Paris polyphylla</i> var. <i>yunnanensis</i>
YUN NAN DI HUA JUN	云南地花菌	Yunnan Landflower Mushroom*	T0287 <i>Albatrellus confluentis</i>
YUN NAN FEI SHU	云南榧树	Yunnan Torreya	T6479 <i>Torreya yunnanensis</i>
YUN NAN FENG CHE ZI	云南风车子	Yunnan Combretum*	T1632 <i>Combretum yunnanensis</i>
YUN NAN GAN CAO	云南甘草	Yunnan Licorice	T3023 <i>Glycyrrhiza yunnanensis</i>
YUN NAN GE SHE SHU	云南割舌树	Yunnan Cuttongue tree	T6807 <i>Walsura yunnanensis</i>
YUN NAN GE TENG	云南葛藤	Yunnan Kudzuvine	T5317 <i>Pueraria peduncularis</i>
YUN NAN HAN XIAO	云南含笑	Yunnan Michelia	T4215 <i>Michelia yunnanensis</i>
YUN NAN HONG DOU SHAN	云南红豆杉	Yunnan Yew	T6319 <i>Taxus yunnanensis</i>
YUN NAN HONG JING TIAN	云南红景天	Yunnan Rhodiola	T5501 <i>Rhodiola yunnanensis</i>
YUN NAN HUANG LIAN	云南黄连	Yunnan Goldthread	T1670 <i>Coptis teetoides</i> [Syn. <i>Coptis teeta</i>]
YUN NAN LUO FU MU	云南萝芙木	Yunnan Devilpepper	T5428 <i>Rauvolfia yunnanensis</i>
YUN NAN MEI DENG MU	云南美登木	Yunnan Mayten	T4134 <i>Maytenus hookeri</i>
YUN NAN NI DAN XING MU LAN	云南拟单性木兰	Yunnan Parakmeria	T4641 <i>Parakmeria yunnanensis</i>
YUN NAN QIANG HUO	云南羌活	Yunnan Pleurospermum	T5021 <i>Pleurospermum rivulorum</i>
YUN NAN RUI MU	云南蕊木	Medicinal Kopsia	T3643 <i>Kopsia officinalis</i>
YUN NAN SHA JI	云南沙棘	Yunnan Seabuckthorn*	T3258 <i>Hippophae rhamnoides</i> subsp. <i>yunnanensis</i>

YUN NAN SHAN ZHA	云南山楂	Yunnan Hawthorn	T1781 <i>Crataegus scabrifolia</i>
YUN NAN SHAN ZHU ZI	云南山竹子	Yunnan Garcinia	T2852 <i>Garcinia cowa</i>
YUN NAN SHI	云南蓍	Wilson Yarrow	T0069 <i>Achillea wilsoniana</i>
YUN NAN SHI XIAN TAO	云南石仙桃	Yunnan Pholidota	T4823 <i>Pholidota yunnanensis</i>
YUN NAN SHI ZI	云南石梓	Malay Bushbeech	T3024 <i>Gmelina arborea</i>
YUN NAN SHU WEI CAO	云南鼠尾草	Yunnan Sage	T5701 <i>Salvia yunnanensis</i>
YUN NAN SUI HUA SHAN	云南穗花杉	Yunnan Amentotaxus	T0409 <i>Amentotaxus yunnanensis</i>
YUN NAN TIE SHAN	云南铁杉	Yunnan Hemlock	T6557 <i>Tsuga dumosa</i>
YUN NAN TU SI ZI	云南菟丝子	Yunnan Dodder	T1915 <i>Cuscuta reflexa</i>
YUN NAN YE SHAN HUA	云南野扇花	Yunnan Sarcococca	T5731 <i>Sarcococca coriacea</i> [Syn. <i>Sarcococca wallichii</i>]
YUN NAN ZAO JIA	云南皂荚	Delacay Honeylocust	T2975 <i>Gleditsia delavayi</i>
YUN NAN ZHANG	云南樟	Nepal Camphortree	T1440 <i>Cinnamomum glanduliferum</i>
YUN QIAN HU	云前胡	Yun Hogfennel	T4769 <i>Peucedanum rubricaulle</i>
YUN SHI YE	云实叶	Caesalpinia*	T1101 <i>Caesalpinia decapetala</i>
YUN TAI ZI	芸薹子	Bird Rape	T1005 <i>Brassica campestris</i> [Syn. <i>Brassica campestris</i> var. <i>oleifera</i>]
YUN WU LUO HAN SONG	云雾罗汉松	Manio	T5050 <i>Podocarpus nubigenus</i>
YUN XIANG CAO	芸香草	Remote Lemongrass	T1941 <i>Cymbopogon distans</i>
YUN XIANG YE HAO	芸香叶蒿	Rueleaf Wormwood*	T0693 <i>Artemisia sativum</i>
ZA JIAO BAI HEx	杂交百合	Hybrid Lily*	T3838 <i>Lilium speciosum</i> x <i>L. nobilissimum</i>
ZA JIAO CHE ZHOU CAO	杂交车轴草	Hybrid Clover*	T6520 <i>Trifolium hybridum</i>
ZA JIAO JIE ZHI HONG DOU SHAN	杂交介质红豆杉	Media Yew (hybrid)	T6318 <i>Taxus x media</i>
ZA JIAO YIN JIAO JU	杂交银胶菊	Hybrid Pathenium*	T4659 <i>Parthenium argentatum</i> x <i>P. tomentosa</i>
ZA JIAO YOU ⁽²⁾	杂交莠*	Hybrid Bluebeard*	T1220 <i>Caryopteris clandonensis</i>
ZA XING TANG SONG CAO	杂性唐松草	Tall Meadowrue	T6405 <i>Thalictrum polygamum</i>
ZAI PEI GAN JU	栽培柑桔*	Cultivated Citrus*	T1473 <i>Citrus cultivars</i>
ZAI PEI HEI ZHONG CAO	栽培黑种草	Cultivated Fennelflower*	T4433 <i>Nigella sativa</i>
ZAI PEI XIANG RI KUI YE	栽培向日葵叶*	Cultivated Sunflower Leaf*	T3146 <i>Helianthus annuus</i> cv
ZAI PEI ZI WAN	栽培紫菀	Cultivated Aster*	T0779 <i>Aster cultivars</i>
ZAI ZHONG LANG SE MU	栽种椰色木	Cultivated Langsat*	T3686 <i>Lansium domesticum</i>
ZAN BI XI BA DOU	赞比西巴豆	Zambesi Croton*	T1861 <i>Croton zambesicus</i>
ZAN SHI LONG DAN	赞氏龙胆	Thunberg Gentian*	T2935 <i>Gentiana thunbergii</i>
ZANG BIAN DA HUANG	藏边大黄	Austral Rhubarb	T5468 <i>Rheum emodi</i> [Syn. <i>Rheum australe</i>]
ZANG HONG HUA	藏红花	Saffron Crocus Stigma	T1808 <i>Crocus sativus</i>
ZANG HONG HUA SE SHUI QIN	藏红花色水芹	Hemlock Waterdropwort	T4480 <i>Oenanthe crocata</i>
ZANG MA HUANG	藏麻黄	Cliff Ephedra	T2379 <i>Ephedra saxatilis</i>
ZANG QIE	藏茄(山莨菪)	Tangut Anisodus	T0502 <i>Anisodus tanguticus</i> [Syn. <i>Scopolia tangutica</i>]
ZANG SAN QI	藏三七	Tibet Ginseng	T4606 <i>Panax pseudo-ginseng</i>
ZANG YAO LUO JING JIN YAO	藏药裸茎金腰	Naked-caule Goldsaxifrage	T1406 <i>Chrysosplenium nudicaule</i>
ZAO CAO	蚤草	Pulicaria*	T5322 <i>Pulicaria wightiana</i>
ZAO JIA	皂荚	Chinese Honeylocust	T2978 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]
ZAO JIA CI	皂荚刺	Chinese Honeylocust Thom	T2979 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]
ZAO JIA GEN PI	皂荚根皮	Chinese Honeylocust Root-bark	T2980 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]
ZAO JIA YE	皂荚叶	Chinese Honeylocust Leaf	T2981 <i>Gleditsia sinensis</i> [Syn. <i>Gleditsia horrida</i>]
ZAO PI SHU	皂皮树*	Soapbark Tree	T5382 <i>Quillaja saponaria</i>
ZAO WEI KOU MO	皂味口蘑		T6506 <i>Tricholoma saponaceum</i>

ZAO XIU	蚤休(七叶一枝花)	Manyleaf Paris	T4648 <i>Paris polyphylla</i>
ZE LAN	泽兰	Shiny Bugleweed	T3980 <i>Lycopus lucidus</i>
ZE LAN GEN	泽兰根	Shiny Bugleweed Root	T3981 <i>Lycopus lucidus</i>
ZE LAN YANG ER JU	泽兰羊耳菊	Eupatoriumlike Inula	T3429 <i>Inula eupatorioides</i>
ZE QI	泽漆	Sun Euphorbia	T2589 <i>Euphorbia helioscopia</i>
ZE WU TOU	泽乌头		T0141 <i>Aconitum zeravschanicum</i>
ZE XIAN	泽藓		T4798 <i>Philonotis fontana</i>
ZE XIE	泽泻	Oriental Waterplantain	T0303 <i>Alisma orientale</i> [Syn. <i>Alisma plantago-aquatica</i> var. <i>orientale</i>]
ZHAI RUI TA ZHANG YA CAI	其瑞塔獐牙菜	Chirata Swertia*	T6215 <i>Swertia chirata</i>
ZHAI TOU TUO WU	窄头橐吾	Narrowhead Goldenray	T3815 <i>Ligularia stenocephala</i>
ZHAI YE BAN FENG HE	窄叶半枫荷	Lanceleaf Wingseedtree	T5310 <i>Pterospermum lanceaeifolium</i>
ZHAI YE NAN YANG SHAN	窄叶南洋杉	Candelabar Tree	T0577 <i>Araucaria angustifolia</i>
ZHAI YE YE WAN DOU	窄叶野豌豆	Narrowleaf Vetch	T6743 <i>Vicia angustifolia</i>
ZHAI ZHU YE CHAI HU	窄竹叶柴胡	Narrowbambooleaf Thorowax	T1067 <i>Bupleurum marginatum</i> var. <i>stenophyllum</i>
ZHAN E JIN SI TAO	展萼金丝桃	Lancaster's St. John'swort	T3357 <i>Hypericum lancasteri</i>
ZHAN HUA WU TOU	展花乌头	Patentflower Monkshood	T0086 <i>Aconitum chasmanthum</i>
ZHAN LONG JIAN	斩龙剑	Siberian Veronicastrum	T6731 <i>Veronicastrum sibiricum</i>
ZHAN MAO CUI QUE HUA	展毛翠雀花	Hair Larkspur	T2079 <i>Delphinium kamaonense</i> var. <i>glabrescens</i>
ZHAN MAO HUANG QIN	黏毛黄芩	Viscidhair Skullcap	T5845 <i>Scutellaria viscidula</i>
ZHAN MAO LIAO	粘毛蓼	Viscidhairy Knotweed	T5122 <i>Polygonum viscosum</i>
ZHAN MAO SHI WEI	毡毛石韦	Panniform Pyrrosia	T5355 <i>Pyrrosia drakeana</i>
ZHAN MAO XUN ZI	毡毛枸子	Silverleaf Cotoneaster	T1761 <i>Cotoneaster pannosus</i>
ZHAN ZHI TANG SONG CAO	展枝唐松草	Spreading Meadowrue*	T6412 <i>Thalictrum squarrosus</i>
ZHANG GUO GAN CAO	胀果甘草	Inflated Licorice	T3015 <i>Glycyrrhiza inflata</i>
ZHANG GUO QIN	胀果芹	Siberian Phlojodicarpus	T4804 <i>Phlojodicarpus sibiricus</i>
ZHANG LANG	蟑螂	Cockroach	T0950 <i>Blatta orientalis</i>
ZHANG LIU TOU	樟柳头	Canereed Spiralflag	T1756 <i>Costus speciosus</i>
ZHANG MU	樟木	Camphortree	T1435 <i>Cinnamomum camphora</i>
ZHANG NAO LUO LE	樟脑罗勒	Grey Basil	T4472 <i>Ocimum canum</i>
ZHANG SHU PI	樟树皮	Camphortree Bark	T1436 <i>Cinnamomum camphora</i>
ZHANG SHU YE	樟树叶	Camphortree Leaf	T1437 <i>Cinnamomum camphora</i>
ZHANG YA CAI	獐牙菜	False Chinese Swertia	T6231 <i>Swertia pseudochinensis</i>
ZHANG YE BAN XIA	掌叶半夏	Pedate Pinellia	T4903 <i>Pinellia pedatisecta</i>
ZHANG YE DA HUANG	掌叶大黄	Sorrel Rhubarb	T5474 <i>Rheum palmatum</i>
ZHANG YE HU JIAO	掌叶胡椒	Camphortreeleaf Pepper	T4961 <i>Piper polysyphorum</i>
ZHANG YU	章鱼	Common Atlantic Octopus	T4478 <i>Octopus vulgaris</i>
ZHAO JU	沼菊	Common Enhydra	T2361 <i>Enhydra fluctuans</i>
ZHAO SHAN BAI	照山白	Manchurian Rhododendron	T5515 <i>Rhododendron micranthum</i>
ZHAO SHENG DA JI	沼生大戟	Marshy Euphorbia*	T2606 <i>Euphorbia palustris</i>
ZHAO WA DAO DIAO BI	爪哇倒吊笔*	Java Wrightia*	T6833 <i>Wrightia javanica</i>
ZHAO WA GAN LAN	爪哇橄榄	Java Almond Canary-tree	T1166 <i>Canarium commune</i>
ZHAO WA JIA KE TAI	爪哇甲克苔	Japanese liverwort	T3550 <i>Jackiella javanica</i>
ZHAO WA ZHE SHU	爪哇柘树*	Java Cudrania*	T1886 <i>Cudrania javanensis</i>
ZHAO ZE QIAN HU	沼泽前胡*	Marsh Parsley	T4767 <i>Peucedanum palustre</i>
ZHAO ZE SHU HUA	沼泽树花	Marsh Ramalina*	T5405 <i>Ramalina paludosa</i>
ZHE BEI MU	浙贝母	Thunberg Fritillary	T2798 <i>Fritillaria verticillata</i> var. <i>thunbergii</i> [Syn. <i>Fritillaria thunbergii</i>]
ZHE GU CAI	鹧鸪菜	Leprieur Caloglossa Frond	T1122 <i>Caloglossa leprieurii</i>
ZHE HUANG KAO GU NA	赭黄栲古那	Brown-yellow Kokoona*	T3638 <i>Kokoona ochracea</i>
ZHE JIANG ZHANG YA CAI	浙江獐牙菜	Zhejiang Swertia*	T6222 <i>Swertia hickinii</i>

ZHE SHU	柘树	Tricuspid Cudrania	T1888 <i>Cudrania tricuspidata</i>
ZHE TENG	柘藤	Fruticose Cudrania	T1885 <i>Cudrania fruticosa</i>
ZHEN	榛	Siberian Hazelnut	T1751 <i>Corylus heterophylla</i>
ZHEN CAI	枕材	Pungent Litsea	T3893 <i>Litsea pungens</i>
ZHEN KUI	针葵	Canary Island Date-palm	T4819 <i>Phoenix canariensis</i>
ZHEN MO	榛蘑	Mellea Armillaria Sporocarp	T0645 <i>Armillariella mellea</i>
ZHEN XIAN	真蕨		T1044 <i>Bryum argenteum</i>
ZHEN YE TENG HUANG	真叶藤黄*	Realeaf Garcinia*	T2854 <i>Garcinia eugenifolia</i>
ZHEN YE XUE TONG	针叶血桐	Conifer Macaranga	T4012 <i>Macaranga conifera</i>
ZHEN YE ZE LAN	针叶泽兰*	Lanceleaf Eupatorium*	T2564 <i>Eupatorium lancifolium</i>
ZHEN ZHU CAI	珍珠菜	Clethra Loosestrife	T3999 <i>Lysimachia clethroides</i>
ZHEN ZHU LU SHUI CAO	珍珠露水草	Spiderweb Bluecargrass, Pearl Cyanotis*	T1921 <i>Cyanotis arachnoidea</i> [Syn. <i>Cyanotis bodinieri</i>]
ZHEN ZHU MEI	珍珠梅	Ural Falsespiraea	T6052 <i>Sorbaria sorbifolia</i>
ZHEN ZHU MU	珍珠母	Mother-of-pearl	T1804 <i>Cristaria plicata; Hyriopsis cumingii</i>
ZHEN ZHU XIU XIAN JU	珍珠绣线菊	Thunberg Spiraea	T6086 <i>Spiraea thunbergii</i>
ZHENG JI NA SHU	正鸡纳树	Medicinal Cinchona	T1429 <i>Cinchona officinalis</i>
ZHI	雉	Common Pheasant	T4786 <i>Phasianus colchicus</i>
ZHI BU LUO TUO CAI HU	直布罗陀柴胡	Gibraltar Thorowax*	T1063 <i>Bupleurum gibraltarium</i>
ZHI GEN DANG GUI	直根当归	Taproot Angelica*	T0493 <i>Angelica radix</i>
ZHI GEN PI	枳根皮	Trifoliolate-orange Root-bark	T5142 <i>Poncirus trifoliata</i>
ZHI JIA HUA YE	指甲花叶	Henna Leaf	T3732 <i>Lawsonia inermis</i>
ZHI JU GEN	枳椇根	Japanese Raisin Tree Root	T3285 <i>Hovenia dulcis</i>
ZHI JU ZI	枳椇子	Japanese Raisin Tree Seed	T3286 <i>Hovenia dulcis</i>
ZHI KE	枳壳	Seville Orange Unripe Fruit	T1467 <i>Citrus aurantium</i>
ZHI LI BAI BU	直立百部	Sessile Stemona	T6113 <i>Stemona sessilifolia</i>
ZHI LI CHANG CHUN HUA	直立长春花	Erect Periwinkle	T6759 <i>Vinca erecta</i>
ZHI LI CI BAI	直立刺柏	Erect Juniper*	T3586 <i>Juniperus erectopatens</i>
ZHI LI DIAN LAN	直立靛兰		T3421 <i>Indigofera arrecta</i>
ZHI LI JIAO HUI XIANG	直立柱茴香	Erect Hypecoum	T3332 <i>Hypecoum erectum</i>
ZHI LI LUO HAN SONG	智利罗汉松	Chile Podocarpus*	T5036 <i>Podocarpus andina</i>
ZHI LI MA DOU LING	智利马兜铃	Aristolochia chilensis	T0623 <i>Aristolochia chilensis</i>
ZHI LI PO PO NA	直立婆婆纳	Common Speedwell	T6723 <i>Veronica arvensis</i>
ZHI LI QIAN JIN TENG	直立千金藤	Erect Stephania*	T6126 <i>Stephania erecta</i>
ZHI LI YE HOU KE GUI	直立叶厚壳桂*	Strictleaf Cryptocarya*	T1864 <i>Cryptocarya strictifolia</i>
ZHI LI ZI JIN	直立紫堇		T1744 <i>Corydalis stricta</i>
ZHI MA CAI	芝麻菜	Roquette	T2439 <i>Eruca sativa</i>
ZHI MU	知母	Common Anemarrhena	T0462 <i>Anemarrhena asphodeloides</i>
ZHI SHA CAO	纸莎草	Paper Reed	T1977 <i>Cyperus papyrus</i>
ZHI SHAN XIANG	栴山香	Pectinat Bushmint*	T3380 <i>Hyptis pectinata</i>
ZHI SHI	枳实	Seville Orange Young Fruit	T1468 <i>Citrus aurantium</i>
ZHI XIE MU PI	止泻木皮	Droughtdysentery Holarrhena Bark	T3263 <i>Holarrhena antidysenterica</i>
ZHI YANG	脂杨	Balsam Poplar	T5147 <i>Populus balsamifera</i>
ZHI YI XIAO BO	置疑小檗	Dubious Barberry	T0903 <i>Berberis dubia</i>
ZHI ZHI SHAN MA CHA	纸质山马茶		T6271 <i>Tabernaemontana chartacea</i>
ZHI ZHU BAO DAN	蜘蛛抱蛋	Common Aspidistra	T0759 <i>Aspidistra elatior</i>
ZHI ZHU XIANG	蜘蛛香	Jatamans Valeriana	T6677 <i>Valeriana jatamansii</i> [Syn. <i>Valeriana wallichii</i>]
ZHI ZHUANG E AN	枝状萼桉*		T2506 <i>Eucalyptus cladocalyx</i>
ZHI ZI	栀子	Cape Jasmine Fruit	T2882 <i>Gardenia jasminoides</i> [Syn. <i>Gardenia florida</i>]
ZHI ZI YE	栀子叶	Cape Jasmine Leaf	T2883 <i>Gardenia jasminoides</i> [Syn. <i>Gardenia florida</i>]

ZHI ZONG ZHUANG HUA XU XIAO BO	直总状花序小檗	Straight-raceme Barberry	T0911 <i>Berberis orthobotrys</i>
ZHONG BA E ZHANG YE FU ZI	中坝鹅掌叶附子	Zhongba Monkshood Daughter Root*	T0085 <i>Aconitum carmichaeli</i> cv
ZHONG BIN JU	肿柄菊	Yucatan Tithonia	T6469 <i>Tithonia diversifolia</i>
ZHONG E BAI TOU WENG	钟萼白头翁	Bellcalyx Pulsatilla	T5323 <i>Pulsatilla campanella</i>
ZHONG FEI GOU ZHI TENG	中非钩枝藤	Central-African Ancistrocladus*	T0451 <i>Ancistrocladus likoko</i>
ZHONG FEI MA QIAN	中非马钱	Central-African Poisonnut*	T6176 <i>Strychnos icaja</i>
ZHONG GUO BAN JIU JU	中国斑鸠菊	Chinese Bitterleaf*	T6714 <i>Vernonia chinense</i>
ZHONG GUO CANG ER	中国苍耳*	Burweed	T6837 <i>Xanthium chinense</i>
ZHONG GUO CU FEI ZHI YE	中国粗榧枝叶	Chinese Plumyew Branch-leaf	T1323 <i>Cephalotaxus sinensis</i> [Syn. <i>Cephalotaxus harringtonia</i> var. <i>sinensis</i>]
ZHONG GUO CU FEI ZI	中国粗榧子	Chinese Plumyew Seed	T1324 <i>Cephalotaxus sinensis</i> [Syn. <i>Cephalotaxus harringtonia</i> var. <i>sinensis</i>]
ZHONG GUO SHA JI	中国沙棘	Chinese Seabuckthorn*	T3256 <i>Hippophae rhamnoides</i> subsp. <i>sinensis</i>
ZHONG GUO SHI SUAN	中国石蒜	Chinese Lycoris	T3984 <i>Lycoris chinensis</i>
ZHONG GUO SHOU CAO	中国绶草*	Chinese Spiranthes*	T6087 <i>Spiranthes sinensis</i>
ZHONG GUO XIU QIU	中国绣球	Chinese Hydrangea	T3303 <i>Hydrangea chinensis</i>
ZHONG GUO XUAN FU HUA	中国旋覆花	Chinese Inula	T3428 <i>Inula britannica</i> var. <i>chinensis</i>
ZHONG GUO YANG CHUN	中国洋椿*	Chinese Cedrela*	T1278 <i>Cedrela sinensis</i>
ZHONG HUA JI SHI TENG	中华鸡屎藤*	Chinese Feervine	T4576 <i>Paederia chinensis</i>
ZHONG HUA JIU LI XIANG	中华九里香	Chinese Common Jasminorange	T4318 <i>Murraya exotica</i>
ZHONG HUA JUAN BAI	中华卷柏	Chinese Spikemoss	T5867 <i>Selaginella sinensis</i>
ZHONG HUA QING NIU DAN	中华青牛胆	Chinese Tinospora*	T6468 <i>Tinospora sinensis</i>
ZHONG HUA XIAO JIAN LIU SHAN HU	中华小尖柳珊瑚	Gorgonian <i>Muricella sinensis</i>	T4315 <i>Muricella sinensis</i>
ZHONG JIAN DA YE KE NU CAO	中间大叶科努草*	Intermediate Largeleaf Chastetree*	T1700 <i>Cornutia grandifolia</i> var. <i>intermedia</i>
ZHONG JIAN HE SHI	中间鹤虱	Intermediate Stickseed	T3689 <i>Lappula intermedia</i>
ZHONG JIAN JIN JI ER	中间锦鸡儿	Intermediate Peashrub	T1189 <i>Caragana intermedia</i>
ZHONG JIAN MAO GAO CAI	中间茅膏菜*	Intermediate Sundew*	T2265 <i>Drosera intermedia</i>
ZHONG JIAN WU WEI ZI	中间五味子	Intermediate Magnoliavine	T5798 <i>Schisandra propinqua</i> var. <i>intermedia</i>
ZHONG MA HUANG	中麻黄	Intermediate Ephedra	T2369 <i>Ephedra intermedia</i>
ZHONG YA KU HAO	中亚苦蒿	Common Wormwood	T0659 <i>Artemisia absinthium</i>
ZHONG YA QIN JIAO	中亚秦艽	Central Asia Gentian	T2913 <i>Gentiana kaufmanniana</i>
ZHONG YA SHA JI	中亚沙棘	Central Asia Seabuckthorn*	T3257 <i>Hippophae rhamnoides</i> subsp. <i>turkestanica</i>
ZHOU CHANG JU	舟常桔	Funadoko Orange*	T1477 <i>Citrus funadoko</i>
ZHOU MU ER	皱木耳	Delicate Jew's Ear*	T0831 <i>Auricularia delicata</i>
ZHOU SHAN XIN MU JIANG ZI	舟山新木姜子	Sericeous Newlitse	T4406 <i>Neolitsea sericea</i>
ZHOU SHUO XIAN	皱蒴藓		T0829 <i>Aulacomnium androgynum</i>
ZHOU YE LU TI CAO	皱叶鹿蹄草	Wrinkledleaf Pyrola	T5352 <i>Pyrola rugosa</i>
ZHOU YE MU LAN	皱叶木兰	Wrinkleleaf Magnolia*	T4046 <i>Magnolia praecocissima</i>
ZHOU YE OU QIN	皱叶欧芹	Curly Garden Parsley	T4748 <i>Petroselinum crispum</i>
ZHOU YE XIANG CHA CAI	皱叶香茶菜	Rugose Rabdosia*	T3523 <i>Isodon rugosus</i> [Syn. <i>Rabdosia rugosa</i>]
ZHOU YE ZE LAN	皱叶泽兰	Mist flower	T2572 <i>Eupatorium rugosum</i>
ZHOU ZHI SHU LI	帚枝鼠李	Twiggy Buckthorn	T5464 <i>Rhamnus virgata</i>
ZHU BAI	竹柏	Nagai Podocarpus	T4346 <i>Myrica nagi</i> [Syn. <i>Podocarpus nagi</i>]
ZHU BAI GEN	竹柏根	Nagai Podocarpus Root	T4347 <i>Myrica nagi</i> [Syn. <i>Podocarpus nagi</i>]
ZHU DAN	猪胆	Pig Gall	T6206 <i>Sus scrofa domestica</i>
ZHU HONG JUN	竹红菌	Bambusa Hypocrella*	T3371 <i>Hypocrella bambusae</i>
ZHU HONG LIU HUANG SE	朱红硫黄色绚孔菌*	Vermeil-sulphureous Laetiporus*	T3666 <i>Laetiporus sulphureus</i> var. <i>miniatus</i>
XUN KONG JUN			
ZHU HONG LONG XUE SHU	朱红龙血树	Cinnabar Dracaena	T2252 <i>Dracaena cinnabari</i>
ZHU HONG SHI	朱红柿*	Cinnabar Persimmon*	T2215 <i>Diospyros cinnabarina</i>
ZHU HONG SHU WEI CAO	朱红鼠尾草		T5669 <i>Salvia cinnabarina</i>

ZHU JIE SAN QI	竹节三七	Japanese Ginseng	T4607 <i>Panax pseudo-ginseng</i> var. <i>japonicus</i>
ZHU JU	朱橘	Red Orange	T1476 <i>Citrus erythrosa</i>
ZHU LING	猪苓	Polyporus Agaric	T5129 <i>Polyporus umbellatus</i>
ZHU LUAN	朱栾	Pomelo	T1474 <i>Citrus decumana</i>
ZHU MAO CAI	猪毛菜	Common Russianthistle	T5657 <i>Salsola collina</i>
ZHU SHA DU JUAN	砵砂杜鹃	Vermilion Rhododendron	T5506 <i>Rhododendron cinnabarinum</i>
ZHU SHA GEN	砵砂根	Coral Ardisia	T0594 <i>Ardisia crenata</i>
ZHU SHA LIAN	朱砂莲	Kaempfer Dutchmanspipe	T0631 <i>Aristolochia kaempferi</i>
ZHU SHI DOU	猪屎豆	Striped Crotalaria	T1826 <i>Crotalaria mucronata</i>
ZHU SI HONG WEN MA XIAN HAO	蛛丝红纹马先蒿	Arachnoidea Redstriate Woodbetony*	T4685 <i>Pedicularis striata</i> ssp. <i>arachnoidea</i>
ZHU SUI SHAN JIANG	柱穗山姜	Pinnan Galangal	T0361 <i>Alpinia pinnanensis</i>
ZHU TAI SHU WEI CAO	烛台鼠尾草*		T5666 <i>Salvia candelabrum</i>
ZHU XUANG	竹黄	Bamboo Yellow*	T5939 <i>Shiraia bambusicola</i>
ZHU YE CHAI HU	竹叶柴胡	Bambooleaf Thorowax	T1066 <i>Bupleurum marginatum</i>
ZHU YE JIAO	竹叶椒	Bambooleaf Pricklyash	T6887 <i>Zanthoxylum planispinum</i>
ZHU YE JIAO GEN	竹叶椒根	Bambooleaf Pricklyash Root	T6888 <i>Zanthoxylum planispinum</i>
ZHU YE JU	苎叶蒟	Falsenettleleaf Pepper	T4938 <i>Piper boehmeriaefolium</i>
ZHU YE LAN	竹叶兰	Chinese Arundina	T0721 <i>Arundina chinensis</i>
ZHU ZI CAO	珠子草	Nirur Leafflower*	T4840 <i>Phyllanthus niruri</i>
ZHU ZI SHU	珠子树	Racemose Sweetleaf	T6254 <i>Symplocos racemosa</i>
ZHU ZONG CAO	猪鬃草	Southern Maidenhair	T0171 <i>Adiantum capillus-veneris</i>
ZHUA KUI GUA YE WU TOU	瓜盔瓜叶乌头	Unguiculate Hemsley Monkshood	T0102 <i>Aconitum hemsleyanum</i> var. <i>leueanthus</i>
ZHUAN HONG REN SAN	砖红韧伞	Brick Tops	T4367 <i>Naematoloma sublateritium</i>
ZHUANG GUAN FAN XIE	壮观番泻*	Spectacular Senna*	T5916 <i>Senna spectabilis</i>
ZHUANG GUAN JI GU CHANG SHAN	壮观鸡骨常山*	Spectacular Alstonia*	T0376 <i>Alstonia spectabilis</i>
ZHUI YE CHAI HU	锥叶柴胡	Acicular Thorowax	T1057 <i>Bupleurum bicaule</i>
ZHUN GE ER LAN PEN HUA	准噶尔兰盆花		T5776 <i>Scabiosa soongorica</i>
ZHUN GE ER QIAN HU	准噶尔前胡	Dzungaria Hogfennel*	T4763 <i>Peucedanum morisonii</i>
ZHUN GE ER WU TOU	准葛尔乌头	Dzungaria Monkshood	T0131 <i>Aconitum soongaricum</i>
ZHUO SE CI QIU	着色刺楸*	Picture Kalopanax*	T3624 <i>Kalopanax pictum</i>
ZHUO SE LI	着色栎*	Black Oak	T5381 <i>Quercus tinctoria</i>
ZHUO SE LIU LI CAO	着色琉璃草*	Picture Houndstongue*	T1970 <i>Cynoglossum pictum</i>
ZHUO SE SANG CHENG	着色桑橙*	Tinctorial Osage Orange*	T4023 <i>Maclura tinctoria</i>
ZI BAI PI	梓白皮	Ovate Catalpa Bast	T1261 <i>Catalpa ovata</i>
ZI BEI HUANG QIN	紫背黄芩	Discolored Skullcap*	T5836 <i>Scutellaria discolor</i>
ZI BEI JIN PAN	紫背金盘	Japanese Bulge	T0267 <i>Ajuga nipponensis</i>
ZI BEI LU TI CAO	紫背鹿蹄草	Purpleback Pyrola	T5344 <i>Pyrola atropurpurea</i>
ZI BEI TAI	紫背苔	Argentine Liverwort	T4990 <i>Plagiochasma rupestre</i>
ZI BEI TIAN KUI CAO	紫背天葵草	Nudicaulous Grounel Herb	T5893 <i>Senecio nudicaulis</i>
ZI CAI	紫菜	Laver	T5171 <i>Porphyra tenera</i>
ZI CAO	紫草	Redroot Gromwell	T3881 <i>Lithospermum erythrorhizon</i>
ZI CAO RONG	紫草茸	Lac	T3649 <i>Laccifer lacca</i>
ZI DAN SHEN	紫丹参	Manchurian Sage*	T5689 <i>Salvia przewalskii</i> var. <i>mandarinorum</i>
ZI DAN TENG	紫丹藤	Taiwan Tournefortia*	T6480 <i>Tournefortia sarmentosa</i>
ZI DI HUANG	紫地黄	Purple Adhesive Rehmannia*	T5448 <i>Rehmannia glutinosa</i> var. <i>purpurea</i>
ZI DING XIANG	紫丁香	Early Lilac	T6260 <i>Syringa oblata</i>
ZI DING XIANG MO	紫丁香蘑	Murasakishimeji (in Japanese)	T3766 <i>Lepista nuda</i>
ZI E XIANG CHA CAI	紫萼香茶菜	Forrest Rabdosia*	T3490 <i>Isodon forrestii</i>
ZI FAN LI ZHI	紫番荔枝	Soncoya	T0510 <i>Annona purpurea</i>
ZI FENG DOU CAI	紫蜂斗菜	Purple Butterbur	T4743 <i>Petasites officinalis</i> [Syn. <i>Petasites hybridu</i>]
ZI GUO WEI MAO	紫果卫矛	Eastern Wahoo	T2537 <i>Euonymus atropurpureus</i>

ZI HE CHE	紫河车	Human Placenta	T3279 <i>Homo sapiens</i>
ZI HONG ZHANG YA CAI	紫红獐牙菜	Scarlet Swertia	T6234 <i>Swertia punicea</i>
ZI HU	紫胡	Sickle-leaved Hare's-ear	T1060 <i>Bupleurum falcatum</i>
ZI HUA DI DING	紫花地丁	Tokyo Violet	T6767 <i>Viola yedoensis</i>
ZI HUA E BEI BEI MU	紫花鄂北贝母	Purpleflower Fritillary	T2786 <i>Fritillaria ebeiensis</i> var. <i>purpurea</i>
ZI HUA GAO WU TOU	紫花高乌头	Purpleflower High Monkshood	T0091 <i>Aconitum excelsum</i>
ZI HUA GUAN MAO RUI HUA	紫花冠毛蕊花*	Purple-red-corolla Mullein*	T6706 <i>Verbascum wiedemannianum</i>
ZI HUA JING TIAN	紫花景天	Purpleflower Stonecrop	T3318 <i>Hylotelephium mingjinianum</i>
ZI HUA SONG GUO JU	紫花松果菊	Purple Conedaisy	T2314 <i>Echinacea purpurea</i>
ZI HUA YU DENG CAO	紫花鱼灯草	Incised Corydalis	T1719 <i>Corydalis incisa</i>
ZI JIN LIAN	紫金莲	Willmott Ceratostigma	T1329 <i>Ceratostigma willmottianum</i>
ZI JIN NIU	紫金牛	Japanese Ardisia	T0598 <i>Ardisia japonica</i>
ZI JIN NIU GEN	紫金牛根	Japanese Ardisia Root	T0599 <i>Ardisia japonica</i>
ZI JIN YE TANG SONG CAO	紫堇叶唐松草	Corydalisleaf Meadowrue	T6395 <i>Thalictrum isopyroides</i>
ZI JING ZE LAN HUA	紫茎泽兰花	Purplestem Eupatorium Flower	T2549 <i>Eupatorium adenophorum</i>
ZI KOU CAO	自扣草	Canton Buttercup	T5413 <i>Ranunculus cantoniensis</i>
ZI LAN SHU	仔榄树	Ceylon Hunteria	T3292 <i>Hunteria zeylanica</i>
ZI LUO KE BAO	紫裸壳胞		T2352 <i>Emericella purpurea</i>
ZI MAO XIANG CHA CAI	紫毛香茶菜	Purplehair Rabdosia	T3486 <i>Isodon enanderianus</i>
ZI MEI SHU	姊妹树	Garden Millingtonia	T4247 <i>Millingtonia hortensis</i>
ZI MO LI GEN	紫茉莉根	Common Four-o'clock Root	T4252 <i>Mirabilis jalapa</i>
ZI MO LI HUA BI DONG QIE	紫茉莉花碧冬茄*	Nyctaginiflower Petunia*	T4752 <i>Petunia nyctaginiflora</i>
ZI MO LI YE	紫茉莉叶	Common Four-o'clock Leaf	T4253 <i>Mirabilis jalapa</i>
ZI MU	梓木	Ovate Catalpa	T1262 <i>Catalpa ovata</i>
ZI QI	紫萁	Japanese Osmunda Frond	T4552 <i>Osmunda japonica</i>
ZI RAN QIN	孜然芹	Cumin	T1889 <i>Cuminum cyminum</i>
ZI SE BAN RUI DOU	紫色瓣蕊豆	Purple Prairie-clover	T4736 <i>Petalostemon purpureus</i>
ZI SE ZHANG YA CAI	紫色獐芽菜*	Purple Swertia*	T6236 <i>Swertia purpurascens</i>
ZI SHA ROU HAI MIAN	紫沙肉海绵*	Sponge <i>Psammaphysilla purpurea</i>	T5249 <i>Psammaphysilla purpurea</i>
ZI SHAN	紫杉	Japanese Yew	T6311 <i>Taxus cuspidata</i>
ZI SHI	梓实	Ovate Catalpa Fruit	T1263 <i>Catalpa ovata</i>
ZI SHU	紫树	Chinese Tupelo	T4457 <i>Nyssa sinensis</i>
ZI SU	紫苏	Common Perilla	T4719 <i>Perilla frutescens</i> var. <i>arguta</i>
ZI SU GENG	紫苏梗	Common Perilla Stem	T4720 <i>Perilla frutescens</i> var. <i>arguta</i>
ZI SU YE	紫苏叶	Common Perilla Leaf	T4721 <i>Perilla frutescens</i> var. <i>arguta</i>
ZI SUI HUAI	紫穗槐	Indigobush Amorpha	T0421 <i>Amorpha fruticosa</i>
ZI TAN	紫檀	Burmacoast Padauk	T5301 <i>Pterocarpus indicus</i>
ZI TENG	紫藤	Chinese Wisteria	T6826 <i>Wisteria sinensis</i>
ZI TENG ZI	紫藤子	Chinese Wisteria Seed	T6827 <i>Wisteria sinensis</i>
ZI TI GEN CAO	紫嚏根草	Purple Hellebore*	T3186 <i>Helleborus purpurascens</i>
ZI WAN	紫菀	Tatarion Aster	T0781 <i>Aster tataricus</i>
ZI WEI	紫葳	Chinese Trumpetcreeper	T1160 <i>Campsis grandiflora</i>
ZI WEI GEN	紫薇根	Common Crapemyrtle Root	T3670 <i>Lagerstroemia indica</i>
ZI WEI HUA	紫薇花	Common Crapemyrtle Flower	T3671 <i>Lagerstroemia indica</i>
ZI WEI JING YE	紫薇茎叶	Chinese Trumpetcreeper Stem-leaf	T1161 <i>Campsis grandiflora</i>
ZI WEI YE	紫薇叶	Common Crapemyrtle Leaf	T3672 <i>Lagerstroemia indica</i>
ZI WU TOU	紫乌头*	Violet Monkshood*	T0140 <i>Aconitum violaceum</i>
ZI XIAO RONG ZI	自消容子	Assam Crotalaria Seed	T1815 <i>Crotalaria assamica</i>
ZI XUE HUA	紫雪花	Indian Leadword	T5028 <i>Plumbago indica</i>
ZI YANG TI JIA	紫羊蹄甲	Purple Bauhinia	T0879 <i>Bauhinia purpurea</i>
ZI YE	梓叶	Ovate Catalpa Leaf	T1264 <i>Catalpa ovata</i>
ZI YU LAN PI	紫玉兰皮	Lily Magnolia Bark	T4042 <i>Magnolia liliflora</i>
ZI YUN YING	紫云英	Chinese Milkvetch	T0805 <i>Astragalus sinicus</i>

ZI YUN YING ZI	紫云英子	Chinese Milkvetch Seed	T0806 <i>Astragalus sinicus</i>
ZI ZHI	紫芝	Japanese Ganoderma	T2846 <i>Ganoderma japonicum</i> [Syn. <i>Ganoderma sinense</i>]
ZONG BAO GE NI DI MU	总苞格尼迪木*		T3036 <i>Gnidia involucrata</i>
ZONG JUAN SHI RUI	纵卷石蕊*		T1524 <i>Cladonia convoluta</i>
ZONG KUI CAO SU	棕盔糙苏*		T4807 <i>Phlomis brunneogaleata</i>
ZONG LV PI	棕榈皮	Fortune Windmillpalm	T6485 <i>Trachycarpus fortunei</i>
ZONG ZAO	棕藻 <i>Ecklonia stolonifera</i>	Brown Alga <i>Ecklonia stolonifera</i>	T2322 <i>Ecklonia stolonifera</i>
ZONG ZHUANG DONG FENG JU YE	总状东风橘叶*	Racemose Atalantia Leaf*	T0816 <i>Atalantia racemosa</i>
ZONG ZHUANG HUA LI	总状花藜	Racemose Goosefoot*	T1363 <i>Chenopodium championii</i>
ZONG ZHUANG HUA YANG TI JIA	总状花羊蹄甲	Racemose Bauhinia*	T0880 <i>Bauhinia racemosa</i>
ZONG ZHUANG JI XUE TENG	总状鸡血藤*	Racemose Millettia*	T4242 <i>Millettia racemosa</i>
ZONG ZHUANG JIA RUI XIANG	总状假瑞香		T2034 <i>Daphnopsis racemosa</i>
ZONG ZHUANG SHENG MA	总状升麻	Racemose Bugbane*	T1424 <i>Cimicifuga racemosa</i>
ZONG ZHUANG TIE LI MU	总状铁力木	Racemose Mesua*	T4204 <i>Mesua racemosa</i>
ZONG ZHUANG TU MU XIANG	总状土木香	Racemose Inula	T3437 <i>Inula racemosa</i>
ZOU BO ZHUANG ZHU SHI DOU	皱波状猪屎豆	Crispate Crotalaria*	T1818 <i>Crotalaria crispata</i>
ZOU MA QIN	走马芹	Paucivitat Cowparsnip	T3218 <i>Heracleum moellendorffii</i> var. <i>paucivitatum</i>
ZOU WEN TANG SONG CAO	绉纹唐松草	Rugose Meadowrue*	T6407 <i>Thalictrum rugosum</i>
ZU YE CAO	足叶草	Peltate Milkwort*	T5080 <i>Polygala peltatum</i>
ZUAN GUO SUAN JIE	钻果蒜芥	Hedge Mustard	T5968 <i>Sisymbrium officinale</i>
ZUI DA WAN SHOU JU	最大万寿菊*	Maxima Marigold*	T6280 <i>Tagetes maxima</i>
ZUI GAO MU JING YE	最高牡荆叶*	Highest Chastetree Leaf*	T6783 <i>Vitex altissima</i>
ZUO JIANG CAO	酢浆草	Creeping Oxalis	T4564 <i>Oxalis corniculata</i> [Syn. <i>Oxalis repens</i>]

The asterisk (*) following a plant name shows that the name is given by authors of the books.

TCM Plant Traditional Effect Index

This index lists all 1311 normalized TCM traditional effects terms in English appeared in the encyclopedia in alphabetical order and the related plant code number (from T0001 to T6926) and Latin name follow the bold term immediately.

- abate fever** T0947 *Bixa orellana*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T4516 *Oplopanax elatus*, T5626 *Ruta graveolens*.
- abate jaundice** T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T4538 *Oroxylum indicum*, T5414 *Ranunculus japonicus*, T6227 *Swertia mussotii*.
- abate swelling** T5740 *Sargassum vachellianum*.
- accept qi and calm asthma** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T5270 *Psoralea corylifolia*.
- allay thirst** T0158 *Actinidia chinensis*, T0423 *Ampelopsis brevipedunculata*, T0976 *Bombyx mori*, T0988 *Bos taurus domesticus*; *Bubalus bubalis*, T1266 *Catha edulis*, T2222 *Diospyros lotus*, T2431 *Eriobotrya japonica*, T2763 *Fragaria ananassa*, T4102 *Mangifera indica*, T5332 *Punica granatum*, T5419 *Raphanus sativus*, T6347 *Terminalia chebula*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*].
- allay vexation and thirst** T3829 *Ligustrum robustum*.
- anesthetize** T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T1674 *Corchorus capsularis*.
- anesthetize and settle pain** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*].
- antiallergic** T3936 *Luffa operculata*.
- anticancer** T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1162 *Camptotheca acuminata*, T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], T1318 *Cephalotaxus fortunei*, T1319 *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], T1322 *Cephalotaxus oliveri*, T1323 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*], T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*], T2844 *Ganoderma applanatum*, T2897 *Gelsemium elegans*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*], T3742 *Lentinus edodes*, T4120 *Marsdenia tenacissima*, T4131 *Maytenus confertiflorus*, T4134 *Maytenus hookeri*, T5129 *Polyporus umbellatus*, T5396 *Rabdosia rubescens*, T6311 *Taxus cuspidata*, T6478 *Torreya jackii*.
- anticarcinoma** T0165 *Actinidia rubricaulis* var. *coriacea*, T3102 *Haplophyllum hispanicum*, T3325 *Hymenoxys grandiflora*, T3326 *Hymenoxys odorata*, T4130 *Maytenus chuchuhuasca*, T4366 *Naematoloma fasciculare*, T4367 *Naematoloma sublateritium*, T4457 *Nyssa sinensis*, T5830 *Scurrura atropurpurea*, T6109 *Stemona collinsae*.
- arouse liquor** T0860 *Balanophora japonica*, T1471 *Citrus chachiensis*, T1472 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*, T1478 *Citrus grandis*, T1516 *Citrus tankan*, T1517 *Citrus tankan*, T1518 *Citrus unshiu*, T2758 *Fortunella crassifolia*, T2759 *Fortunella japonica*, T2760 *Fortunella margarita*, T4088 *Malus pumila*.
- arouse spirit** T1608 *Coffea arabica*, T1610 *Coffea liberica*, T6416 *Thamnia vermicularis*.
- arrest diarrhea** T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T5268 *Psidium guajava*, T5517 *Rhododendron molle*.
- astringe intestines** T4635 *Papaver somniferum*, T4637 *Papaver somniferum*, T5327 *Punica granatum*, T5329 *Punica granatum*, T5332 *Punica granatum*, T5361 *Pyrus betulaeifolia*, T6266 *Syzygium cumini*.
- astringe intestines and check diarrhea** T3162 *Helicia nilagirica*, T3569 *Juglans regia*, T4343 *Myrica esculent*, T4351 *Myristica fragrans*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4631 *Papaver nudicaule* var. *chinense*, T5228 *Prunus mume*, T5328 *Punica granatum*, T5568 *Rosa laevigata*.
- astringe intestines and check dysentery** T5112 *Polygonum perigrinatoris*.
- astringe intestines and secure essence** T5529 *Rhodomirtus tomentosa*.
- astringe intestines and stanch bleeding** T0255 *Ailanthus altissima*, T6475 *Toona sinensis*.

- attack gastrointestinal accumulation** T2585 *Euphorbia esula*.
- attack toxin** T2650 *Excoecaria agallocha*, T2857 *Garcinia hanburyi*, T3287 *Huechys sanguinea*, T3327 *Hyoscyamus niger*.
- attack toxin and cure sores** T4265 *Momordica cochinchinensis*, T4338 *Mylabris phalerata*; *Mylabris cichorii*.
- attack toxin and dissipate binds** T1084 *Buthus martensi*.
- attack toxin and expel stasis** T4008 *Lytta caraganae*.
- attack toxin and kill worms** T3300 *Hydnocarpus anthelminticus*.
- attack toxin and relieve pain** T4240 *Millettia pachycarpa*.
- boost essence** T3279 *Homo sapiens*, T4658 *Parmelia tinctorum*.
- boost essence and blood** T1337 *Cervus nippon*; *Cervus elaphus*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1972 *Cynomorium songaricum*, T5927 *Sesamum indicum* [Syn. *Sesamum orientale*].
- boost essence and replenish marrow** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- boost heart and liver** T3743 *Lentinus lepideus*.
- boost intestines and stomach** T1660 *Coprinus atramentarius*.
- boost kidney** T5938 *Setaria italica*, T6073 *Sphallerocarpus gracilis*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6750 *Vicia sativa*.
- boost kidney and fortify spleen** T1958 *Cynanchum otophyllum*.
- boost kidney and nourish liver** T5498 *Rhodiola quadrifida*.
- boost kidney and quiet spirit** T5697 *Salvia trijuga*.
- boost kidney and secure essence** T4400 *Nelumbo nucifera*.
- boost kidney and settle asthma** T6264 *Syzygium buxifolium*.
- boost kidney and strengthen lumbus** T2540 *Euonymus fortunei*.
- boost kidney and strengthen sinews** T5848 *Securinega suffruticosa*.
- boost kidney and supplement vacuity** T1017 *Brassica oleracea* var. *capitata*.
- boost liver** T0541 *Apis cerana*.
- boost liver and brighten eyes** T0793 *Astragalus complanatus*.
- boost liver and kidney** T3389 *Ilex cornuta*, T3390 *Ilex cornuta*, T4828 *Photinia serrulata*.
- boost lung** T0985 *Bos taurus domesticus*; *Bubalus bubalis*.
- boost lung and kidney** T2195 *Dioscorea deltoidea*.
- boost lung and quiet heart** T6902 *Zea mays*.
- boost lung and relieve cough** T4350 *Myriopterion extensum*.
- boost lung and stomach** T0989 *Bos taurus domesticus*; *Bubalus bubalis*.
- boost qi** T1961 *Cynanchum thesioides*, T2837 *Gallus gallus domesticus*, T5244 *Prunus tomentosa*, T5924 *Sesamum indicum*, T6150 *Streptopelia orientalis*.
- boost qi and disinhibit water** T3981 *Lycopus lucidus*.
- boost qi and engender liquid** T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*], T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- boost qi and fortify spleen** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T1254 *Castanea mollissima*, T1591 *Cocos nucifera*, T1593 *Cocos nucifera*, T4681 *Pedicularis decora*, T4902 *Pimpinella thelungiana*, T5260 *Pseudostellaria heterophylla*, T5465 *Rhaponticum carthamoides*, T6492 *Trapa bispinosa*.
- boost qi and nourish yin** T0163 *Actinidia latifolia*, T6087 *Spiranthes sinensis*.
- boost qi and secure exterior** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T3128 *Hedysarum multijugum*.
- boost qi and supplement vacuity** T2962 *Ginkgo biloba*, T2963 *Ginkgo biloba*, T4820 *Phoenix dactylifera*.
- boost qi-blood** T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*.
- boost stomach** T4088 *Malus pumila*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*.
- boost stomach and engender liquid** T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*, T2983 *Glehnia littoralis*.
- boost wits and nourish heart** T5499 *Rhodiola sacra*.
- break accumulation** T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*.
- break accumulation and free stool** T2596 *Euphorbia kansui*.
- break accumulation and kill worms** T6105 *Stellera chamaejasme*, T6820 *Wikstroemia indica*.
- break blood** T3306 *Hydrangea paniculata*, T6062 *Sparganium stoloniferum*.
- break blood and dispel stasis** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*].
- break blood and disperse concretion** T2597 *Euphorbia lathyris*, T4338 *Mylabris phalerata*; *Mylabris cichorii*.
- break blood and disperse swelling** T6267 *Syzygium jambos*.
- break blood and free menstruation** T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2536 *Euonymus alatus*, T5028 *Plumbago indica*.
- break blood and move qi** T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.
- break blood and soften hard** T3412 *Impatiens balsamina*.
- break foul** T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T3868 *Liquidambar orientalis*.
- break phlegm and disinhibit orifices** T1008 *Brassica juncea*.
- break phlegm and open orifices** T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*.
- break phlegm and repel foulness** T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*.
- break qi and dissipate binds** T5137 *Poncirus trifoliata*.
- break qi and dissipate glomus** T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T5141 *Poncirus trifoliata*.
- break qi and move phlegm** T1467 *Citrus aurantium*, T5140 *Poncirus trifoliata*.
- break stasis** T1210 *Carpesium abrotanoides*, T3287 *Huechys sanguinea*.
- break stasis and dissipate binds** T5103 *Polygonum hydropiper*.
- break stasis and free menstruation** T0661 *Artemisia anomala*.
- brighten eyes** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*,

- T0823 *Atractylodes lancea*, T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T1032 *Broussonetia papyrifera*, T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2407 *Equisetum arvense*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*], T2841 *Gallus gallus domesticus*, T3779 *Leucas aspera*, T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T3969 *Lycopodium casuarinoides*, T4263 *Momordica charantia*, T4471 *Ocimum basilicum*, T4551 *Osmorhiza aristata* var. *laxa*, T4656 *Parmelia saxatilis*, T4658 *Parmelia tinctorum*, T5214 *Prunella vulgaris*, T5227 *Prunus mume*, T5593 *Rubus idaeus*, T5690 *Salvia roborowskii*, T6150 *Streptopelia orientalis*, T6437 *Thlaspi arvense*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*.
- brighten eyes and blacken hair** T3828 *Ligustrum lucidum*.
- brighten eyes and eliminate eye screens** T1296 *Celosia argentea*, T2434 *Eriocaulon buergerianum*.
- brighten eyes and transform damp** T1753 *Cosmos bipinnata*.
- brighten eyes; flower: disinhibit urine** T1305 *Centaurea cyanus*.
- calm** T0184 *Adonis amurensis*, T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T1084 *Buthus martensi*, T1525 *Cladonia fallax*, T4243 *Millettia reticulata*, T4423 *Nicandra physaloides*, T5817 *Scolopendra subspinipes mutilans*, T6457 *Tilia japonica*, T6458 *Tilia miqueliana*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6562 *Tulipa gesneriana*.
- calm and lower blood pressure** T4001 *Lysimachia davurica*.
- calm and quiet spirit** T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*].
- calm and relieve pain** T6135 *Stephania succifera*.
- calm asthma** T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T1241 *Cassia occidentalis*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2268 *Drosera rotundifolia*, T2279 *Dryopteris championii*, T3850 *Lindera glauca*, T3885 *Litsea cubeba*, T4042 *Magnolia liliflora*, T4371 *Nandina domestica*, T4715 *Perilla frutescens*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4908 *Pinus bungeana*, T5502 *Rhododendron anthopogonoides*, T5522 *Rhododendron seniavinii*, T6729 *Veronica spuria*.
- calm liver** T0544 *Apium graveolens*, T2219 *Diospyros kaki*, T3142 *Helianthus annuus*, T3775 *Lethariella cladonioides*, T3859 *Linum usitatissimum*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T6076 *Spinacia oleracea*.
- calm liver and brighten eyes** T1184 *Capsella bursa-pastoris*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T5100 *Polygonum chinense*, T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- calm liver and extinguish wind** T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6903 *Zephyranthes candida*.
- calm liver and lower blood pressure** T0428 *Ampelopsis megalophylla*, T1927 *Cycas revoluta*, T2729 *Filipendula ulmaria*, T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*].
- calm liver and quiet spirit** T3372 *Hypodematum sinense*.
- calm liver and raise spirit** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*.
- calm liver and relieve pain** T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*].
- calm liver and settle fright** T6651 *Urtica cannabina*, T6652 *Urtica dioica*.
- calm liver and subdue yang** T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T2060 *Delonix regia*, T2890 *Gastrodia elata*, T5657 *Salsola collina*.
- check diarrhea** T0360 *Alpinia oxyphylla*, T1299 *Celosia cristata*, T1493 *Citrus limon*, T1497 *Citrus limonia*, T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1937 *Cydonia oblonga*, T1939 *Cymbopogon citratus*, T1943 *Cymbopogon goeringii*, T2346 *Embelia oblongifolia*, T3567 *Juglans regia*, T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4787 *Phellinus igniarius*, T5266 *Psidium guajava*, T5570 *Rosa roxburghii*, T6476 *Torilis japonica*, T6746 *Vicia faba*.
- check discharge** T1183 *Capra hircus*; *Ovis aries*, T1299 *Celosia cristata*, T2632 *Euryale ferox*, T4036 *Magnolia coco*, T5327 *Punica granatum*, T5329 *Punica granatum*, T5567 *Rosa laevigata*.
- check dysentery** T0248 *Agrimonia pilosa*, T0249 *Agrimonia pilosa* var. *japonica*, T0444 *Ananas comosus*, T0542 *Apis cerana*, T2032 *Daphniphyllum calycinum*, T2079 *Delphinium kamaonense* var. *glabrescens*, T2268 *Drosera rotundifolia*, T3145 *Helianthus annuus*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T6347 *Terminalia chebula*, T6374 *Thalictrum atriplex*.
- check dysentery and diarrhea** T0197 *Aegle marmelos*, T2438 *Erodium stephanianum*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T4545 *Oryza sativa*, T6670 *Vaccinium bracteatum*.
- check dysentery and promote astriction** T5573 *Rosa sericea*.
- check flooding and spotting** T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*.
- check hiccups** T1168 *Canavalia ensiformis*, T1169 *Canavalia gladiata*.
- check hyperactivity** T0553 *Apocynum venetum*.
- check sweating** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T2381 *Ephedra sinica*.
- check tetany** T0979 *Bombyx mori*, T1332 *Cercidiphyllum japonicum*.
- check turbid vaginal discharge** T2961 *Ginkgo biloba*.
- check vomiting** T0012 *Abrus precatorius*, T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T1488 *Citrus junos*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3250 *Hierochloe odorata*, T3286 *Hovenia dulcis*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3434 *Inula linariaefolia*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4829 *Phragmites communis*.
- check vomiting and diarrhea** T4818 *Phoebe nanmu*.
- check vomiting and quiet fetus** T0418 *Amomum muricarpum*.
- check vomiting and stanch bleeding** T0924 *Bergenia purpurascens*.
- clean heat** T0687 *Artemisia myriantha*.

- clear and discharge large intestines** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*.
- clear damp heat** T0902 *Berberis diaphana*, T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T1759 *Cotinus coggygria* var. *cinerea*, T1966 *Cynara scolymus*, T2718 *Ficus carica*, T2830 *Galium aparine*, T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T3342 *Hypericum bellum*, T4369 *Nandina domestica*, T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*], T5604 *Rudbeckia laciniata*, T5942 *Sida acuta*.
- clear fire** T5214 *Prunella vulgaris*.
- clear fire and engender liquid** T4610 *Panax quinquefolium*.
- clear head and eyes** T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3829 *Ligustrum robustum*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- clear heart** T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*].
- clear heart and cool blood** T1907 *Curcuma wengujin*.
- clear heart and cool liver** T0987 *Bos taurus domesticus*; *Bubalus bubalis*.
- clear heart and downbear fire** T3578 *Juncus effusus*.
- clear heart and quiet spirit** T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*], T4385 *Narcissus tazetta* var. *chinensis*.
- clear heart fire** T0632 *Aristolochia manshuriensis*, T4401 *Nelumbo nucifera*.
- clear heat** T0157 *Actinidia callosa* var. *henryi*, T0423 *Ampelopsis brevipedunculata*, T0544 *Apium graveolens*, T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0678 *Artemisia japonica*, T0705 *Artemisia vestita*, T0784 *Astilbe chinensis*, T0834 *Averrhoa carambola*, T0888 *Beesia calthaeifolia*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1045 *Bubalus bubalis*, T1161 *Campsis grandiflora*, T1165 *Canarium album*, T1172 *Canna edulis*, T1194 *Carassius auratus*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1210 *Carpesium abrotanoides*, T1266 *Catha edulis*, T1526 *Cladonia rangiferina*, T1746 *Corydalis taliensis*, T1831 *Crotalaria sessiliflora*, T1878 *Cucumis sativus*, T2101 *Dendrobium fimbriatum*, T2221 *Diospyros kaki*, T2222 *Diospyros lotus*, T2263 *Dregea volubilis*, T2293 *Dumortiera hirsuta*, T2334 *Elephantopus scaber*, T2445 *Ervatamia officinalis*, T2495 *Eschscholzia californica*, T2649 *Evolvulus alsinoides*, T2994 *Gloiopeltis furcata*, T3085 *Gynostemma pentaphyllum*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3143 *Helianthus annuus*, T3277 *Homo sapiens*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3555 *Jasminum nudiflorum*, T3649 *Laccifer lacca*, T3815 *Ligularia stenocephala*, T3935 *Luffa cylindrica*, T4055 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4072 *Mahonia shenii*, T4080 *Mallotus apelta*, T4178 *Melodinus hemsleyanus*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4368 *Nandina domestica*, T4471 *Ocimum basilicum*, T4500 *Onosma paniculatum*, T4616 *Pandanus tectorius*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4840 *Phyllanthus niruri*, T4848 *Physalis angulata*, T5120 *Polygonum tinctorium*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T5239 *Prunus salicina*, T5423 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T5719 *Sapindus mukorossi*, T5767 *Saussurea pulchella*, T5857 *Sedum sarmentosum*, T5863 *Selaginella moellendorffii*, T5978 *Smilax glauco-china*, T6330 *Tephrosiera kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6372 *Thalictrum acutifolium*, T6381 *Thalictrum faberi*, T6388 *Thalictrum fortunei*, T6403 *Thalictrum petaloideum*, T6431 *Thesium chinense*, T6522 *Trifolium repens*, T6723 *Veronica arvensis*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6820 *Wikstroemia indica*, T6912 *Zinnia elegans*.
- clear heat and allay thirst** T3234 *Heteropogon contortus*, T3957 *Lycium chinense*, T6416 *Thamnia vermicularis*.
- clear heat and boost yin** T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2952 *Gerbera piloselloides*, T6582 *Tylophora ovata*.
- clear heat and brighten eyes** T1981 *Cyprinus carpio*, T5762 *Saussurea nigrescens*, T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*], T6426 *Thermopsis chinensis*, T6732 *Vespertilio superans*.
- clear heat and calm liver** T0553 *Apocynum venetum*, T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2733 *Firmiana simplex*, T4843 *Phyllanthus urinaria*, T5428 *Rauwolfia yunnanensis*, T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- clear heat and check dysentery** T0511 *Annona reticulata*, T5299 *Pteris wallichiana*, T5375 *Quercus mongolica*.
- clear heat and cool blood** T0266 *Ajuga macrosperma*, T0379 *Alternanthera philoxeroides*, T0852 *Bacopa monniera*, T0964 *Boenninghausenia albiflora*, T1160 *Campsis grandiflora*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T3155 *Helianthus tuberosus*, T3387 *Idesia polycarpa*, T3549 *Ixora chinensis*, T4148 *Medicago sativa*, T4506 *Ophioglossum vulgatum*, T4582 *Paeonia delavayi*, T4584 *Paeonia lactiflora* wild, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*, T5851 *Sedum alfredii* [Syn. *Sedum formosanum*].
- clear heat and disinhibit damp** T0010 *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], T0156 *Actinidia arguta*, T0161 *Actinidia eriantha*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0297 *Alchornea trewioides*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0428 *Ampelopsis megalophylla*, T0468 *Anemone hupehensis*, T0573 *Aralia elata*, T0601 *Ardisia pusilla*, T0672 *Artemisia capillaris*, T0695

Artemisia scoparia [Syn. *Artemisia capillaris* var. *scoparia*], T0696 *Artemisia sieversiana*, T0751 *Asparagus officinalis*, T0859 *Balanophora involucreta*, T0906 *Berberis julianae*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1017 *Brassica oleracea* var. *capitata*, T1034 *Broussonetia papyrifera*, T1163 *Campylotropis hirtella*, T1184 *Capsella bursa-pastoris*, T1251 *Cassitha filiformis*, T1261 *Catalpa ovata*, T1275 *Cayratia japonica*, T1282 *Cedrus deodara*, T1311 *Centella asiatica*, T1402 *Chrysosplenium alternifolium*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1733 *Corydalis racemosa*, T1813 *Crotalaria albida*, T1826 *Crotalaria mucronata*, T1967 *Cynoglossum amabile*, T1969 *Cynoglossum officinale*, T2056 *Debregeasia longifolia*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2348 *Embelia ribes*, T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*], T2927 *Gentiana rhodantha*, T2941 *Gentianopsis paludosa*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T2993 *Gloeostereum incarnatum*, T3192 *Hemerocallis citrina*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3243 *Hibiscus rosa-sinensis*, T3244 *Hibiscus syriacus*, T3245 *Hibiscus syriacus*, T3270 *Holboellia fargesii*, T3311 *Hydrocotyle sibthorpioides*, T3356 *Hypericum japonicum*, T3479 *Isodon amethystoides*, T3646 *Kyllinga brevifolia*, T3670 *Lagerstroemia indica*, T3675 *Lagopsis supina*, T3774 *Lespedeza tomentosa*, T3830 *Ligustrum sinense*, T3932 *Ludwigia octovalvis*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4028 *Maesa indica*, T4109 *Marchantia polymorpha*, T4149 *Medicago sativa*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4220 *Microlepia strigosa* [Syn. *Trichomanes strigosa*], T4225 *Microsorium punctatum*, T4248 *Mimosa pudica*, T4252 *Mirabilis jalapa*, T4361 *Myrsine africana*, T4370 *Nandina domestica*, T4538 *Oroxylum indicum*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4823 *Pholidota yunnanensis*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4835 *Phyllanthus emblica*, T4836 *Phyllanthus emblica*, T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5072 *Polygala caudata*, T5097 *Polygonum amphibium*, T5100 *Polygonum chinense*, T5101 *Polygonum cuspidatum*, T5124 *Polypodium niponicum*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5161 *Populus tomentosa*, T5174 *Portulaca pilosa*, T5220 *Prunus davidiana*, T5230 *Prunus persica*, T5232 *Prunus persica*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5295 *Pteris multifida*, T5297 *Pteris plumbea*, T5400 *Rabdosia stracheyi*, T5587 *Rubus alceaefolius*, T5754 *Saussurea graminea*, T5844 *Scutellaria scordifolia*, T5859 *Selaginella braunii*, T5860 *Selaginella davidii*, T5862 *Selaginella involvens*, T5866 *Selaginella sanguinolenta*, T5867 *Selaginella sinensis*, T5870 *Selaginella uncinata*, T5943 *Sida cordifolia*, T5954 *Silene fortunei*, T5957 *Silybum marianum*, T5966 *Siphonostegia chinensis*, T6005 *Solanum lyratum*, T6020 *Solanum xanthocarpum*, T6095 *Stachytarpheta jamaicensis*, T6250 *Symplocos caudata*, T6282 *Tagetes patula*, T6508 *Trichosanthes cucumeroides*.

clear heat and disinhibit qi T3063 *Grevillea robusta*.

clear heat and disinhibit throat T0595 *Ardisia crispa*, T6046 *Sophora vicifolia*, T6047 *Sophora vicifolia*.

clear heat and disinhibit urine T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T1148 *Camellia saluenensis*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2412 *Equisetum sylvaticum*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3303 *Hydrangea chinensis*, T3921 *Lophatherum gracile*, T3950 *Lychnis fulgens*, T4194 *Menyanthes trifoliata*, T4636 *Papaver somniferum*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5171 *Porphyra tenera*, T5750 *Saururus chinensis*, T6071 *Sphaeranthus indicus*, T6356 *Tetrapanax papyriferus*, T6794 *Vitis amurensis*.

clear heat and disinhibit water T0628 *Aristolochia fangchi*, T0629 *Aristolochia heterophylla*, T0894 *Benincasa hispida*, T1197 *Cardiospermum halicacabum*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T4274 *Monostroma nitidum*, T4482 *Oenanthe javanica*, T4847 *Physalis alkekengi* var. *franchetii*, T6357 *Tetrapanax papyriferus*.

clear heat and dispel damp T1359 *Chenopodium album*, T1553 *Clerodendranthus spicatus*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T4159 *Melia azedarach*.

clear heat and disperse phlegm T2525 *Eucheuma muricatum*.

clear heat and disperse stagnation T6339 *Tephrosia purpurea*.

clear heat and disperse swelling T1338 *Cestrum nocturnum*, T1451 *Cirsium setosum* [Syn. *Cerratura setosa*; *Cirsium segetum*; *Cephalanoplos segetum*].

clear heat and downbear fire T0328 *Alnus japonica*, T3233 *Heteropappus altaicus*.

clear heat and drain fire T0446 *Anaphalis margaritacea*, T0462 *Anemarrhena asphodeloides*, T0722 *Arundo donax*, T0959 *Blumea lacera*, T2294 *Dunnia sinensis*, T5309 *Pterocladia tenuis*, T5775 *Scabiosa comosa*, T6373 *Thalictrum alpinum*.

clear heat and dry damp T0659 *Artemisia absinthium*, T0897 *Berberis amurensis*, T0907 *Berberis kawakamii*, T0912 *Berberis poiratii*, T0916 *Berberis thunbergii*, T0920 *Berberis wilsonae*, T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T2079 *Delphinium kamaonense* var. *glabrescens*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2772 *Fraxinus mandshurica*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3564 *Juglans mandshurica*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T4158 *Melia azedarach*, T4479 *Odontites serotina*, T4887 *Picrorhiza kurroa*, T4888 *Picrorhiza scrophulariiflora*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6029 *Sophora alopecuroides*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6039 *Sophora moorcroftiana*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6378 *Thalictrum delavayi*, T6385 *Thalictrum flavum*, T6386 *Thalictrum*

- foetidum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*, T6410 *Thalictrum smithii*, T6474 *Toona ciliata*.
- clear heat and eliminate damp** T0635 *Aristolochia moupinensis*, T2134 *Desmodium styracifolium*, T2738 *Flemingia strobilifera*, T5118 *Polygonum suffultum*.
- clear heat and eliminate vexation** T3920 *Lophatherum gracile*, T6060 *Souliea vaginata*.
- clear heat and engender liquid** T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2717 *Ficus carica*, T2867 *Garcinia multiflora*, T3416 *Imperata cylindrica* var. *major*, T4402 *Nelumbo nucifera*, T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4829 *Phragmites communis*, T5642 *Saccharum sinensis*, T6512 *Trichosanthes kirilowii*, T6526 *Triglochin maritimum*.
- clear heat and expel pus** T1614 *Coix lacryma-jobi* var. *ma-yuen*.
- clear heat and free stool** T1232 *Cassia fistula*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*.
- clear heat and interrupt malaria** T3109 *Harrisonia perforata*.
- clear heat and lower blood pressure** T2442 *Ervatamia divaricata*, T2444 *Ervatamia heyneana*.
- clear heat and moisten lung** T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2797 *Fritillaria ussuriensis*, T3769 *Lespedeza bicolor*, T5483 *Rhinacanthus nasutus*, T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*].
- clear heat and move qi** T4852 *Physalis peruviana*.
- clear heat and nourish liver** T1048 *Buddleja officinalis*.
- clear heat and nourish yin** T4605 *Panax japonicus* var. *major*.
- clear heat and percolate damp** T2243 *Dodonaea viscosa*.
- clear heat and promote contraction** T3732 *Lawsonia inermis*, T6251 *Symplocos caudata*.
- clear heat and quicken blood** T5183 *Potentilla griffithii* var. *velutina*, T6007 *Solanum melongena*.
- clear heat and rectify damp** T3360 *Hypericum patulum*.
- clear heat and relieve cough** T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T2327 *Elaeagnus angustifolia*, T3926 *Loropetalum chinense*, T4284 *Morinda parvifolia*, T4760 *Peucedanum japonicum*, T5501 *Rhodiola yunnanensis*, T6521 *Trifolium pratense*.
- clear heat and relieve pain** T4143 *Meconopsis horridula*.
- clear heat and remove damp** T0776 *Asplenium prolongatum*, T0963 *Boehmeria siamensis*, T1406 *Chrysosplenium nudicaule*, T1884 *Cudrania cochinchinensis*.
- clear heat and resolve exterior** T1415 *Cichorium intybus*, T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*], T2697 *Ferula borealis*, T3163 *Helicteres angustifolia*, T4527 *Orixa japonica*, T6788 *Vitex negundo*.
- clear heat and resolve phlegm** T0174 *Adiantum monochlamys*, T0971 *Bolbostemma paniculatum*, T2359 *Enderachne binghamiae*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T5145 *Populus alba*, T5720 *Sapindus mukorossi*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6615 *Uncaria gambir*, T6925 *Zostera marina*.
- clear heat and resolve summerheat** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1785 *Cratoxylum prunifolium*, T4398 *Nelumbo nucifera*, T4602 *Panax ginseng* [Syn. *Panax schinseng*], T6803 *Volvariella volvacea*.
- clear heat and resolve toxin** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0011 *Abrus precatorius*, T0012 *Abrus precatorius*, T0045 *Acanthopanax trifoliatum*, T0048 *Acanthus ilicifolius*, T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0137 *Aconitum tanguticum*, T0171 *Adiantum capillus-veneris*, T0172 *Adiantum caudatum*, T0175 *Adiantum pedatum*, T0181 *Adina rubella*, T0190 *Adonis sutchuenensis*, T0195 *Aeginetia indica*, T0229 *Ageratum conyzoides*, T0262 *Ajuga ciliata*, T0263 *Ajuga decumbens*, T0264 *Ajuga forrestii*, T0267 *Ajuga nipponensis*, T0295 *Albizia odoratissima*, T0299 *Aleurites cordata* [Syn. *Aleurites fordii*], T0302 *Alhagi pseudalhagi*, T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T0364 *Alsophila spinulosa*, T0374 *Alstonia scholaris*, T0378 *Alstonia yunnanensis*, T0388 *Amaranthus lividus*, T0389 *Amaranthus tricolor*, T0421 *Amorpha fruticosa*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0434 *Amsonia sinensis*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0471 *Anemone rivularis*, T0513 *Annona squamosa*, T0561 *Arachis hypogaea*, T0563 *Arachniodes exilis*, T0565 *Arachniodes simplicior*, T0594 *Ardisia crenata*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0602 *Ardisia quinquegona*, T0610 *Argemone mexicana*, T0631 *Aristolochia kaempferi*, T0641 *Aristolochia tuberosa*, T0642 *Aristolochia tubiflora*, T0643 *Aristolochia versicolor*, T0721 *Arundina chinensis*, T0736 *Asclepias curassavica*, T0805 *Astragalus sinicus*, T0827 *Aucuba chinensis* ssp. *omeiensis*, T0853 *Baeckea frutescens*, T0860 *Balanophora japonica*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0879 *Bauhinia purpurea*, T0892 *Belamcanda chinensis*, T0931 *Betula ermanii*, T0938 *Bidens bipinnata*, T0941 *Bidens tripartita*, T0952 *Blechnum orientale*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0967 *Boenninghausenia sessilicarpa*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1003 *Brandisia hancei*, T1004 *Brasenia schreberi*, T1043 *Bryophyllum pinnatum*, T1044 *Bryum argenteum*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1087 *Buxus bodinieri*, T1092 *Buxus microphylla* var. *sinica*, T1101 *Caesalpinia decapetala*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1162 *Camptotheca acuminata*, T1179 *Capparis masaikai*, T1190 *Caragana jubata*, T1222 *Caryopteris glutinosa*, T1238 *Cassia mimosoides*, T1264 *Catalpa ovata*, T1305 *Centaurea cyanus*, T1316 *Cephalanthus occidentalis*, T1384 *Chondrus ocelladus*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1393 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1412 *Cicer arietinum*, T1417 *Cimicifuga acerina*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1423 *Cimicifuga nanchuanensis*, T1425 *Cimicifuga simplex*, T1448 *Cirsium chinense*, T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*], T1544 *Cleistocalyx operculatus*, T1554 *Clerodendron cyrtophyllum*, T1555 *Clerodendron fortunatum*, T1624 *Colocasia antiquorum*, T1633 *Commelina communis*,

- T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1644 *Conocephalum conicum*, T1655 *Conyza blinii*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1727 *Corydalis mucronifera*, T1728 *Corydalis ochotensis*, T1731 *Corydalis pallida*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T1747 *Corydalis thalictrifolia*, T1753 *Cosmos bipinnata*, T1784 *Cratoxylum cochinchinense*, T1787 *Cremastra appendiculata*, T1796 *Crinum asiaticum* var. *sinicum*, T1799 *Crinum latifolium*, T1810 *Croomia japonica*, T1866 *Cryptolepis sinensis*, T1931 *Cyclea barbata*, T1933 *Cyclea sutchuenensis*, T1934 *Cyclea tonkinensis*, T1954 *Cynanchum chinense*, T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T1986 *Cyrtomium fortunei*, T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T2033 *Daphniphyllum macropodum*, T2050 *Daucus carota* var. *sativa*, T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2157 *Dichotomanthes tristaniaecarpa*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], T2191 *Dioscorea bulbifera*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2194 *Dioscorea collettii*, T2200 *Dioscorea hispida*, T2206 *Dioscorea parviflora*, T2218 *Diospyros kaki*, T2233 *Diploclisia glaucescens*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2279 *Dryopteris championii*, T2280 *Dryopteris chrysocoma*, T2281 *Dryopteris crassirhizoma*, T2282 *Dryopteris filix-mas*, T2290 *Duchesnea indica*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T2357 *Emilia sonchifolia*, T2387 *Epilobium hirsutum*, T2421 *Erigeron annuus*, T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T2529 *Euchresta strigillosa*, T2555 *Eupatorium chinense*, T2590 *Euphorbia hirta*, T2591 *Euphorbia humifusa*, T2628 *Euphrasia officinalis*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2659 *Fagopyrum esculentum*, T2691 *Farfugium japonicum*, T2715 *Fibraurea recisa*, T2730 *Fimbristylis dichotoma*, T2732 *Firmiana simplex*, T2756 *Forsythia suspensa*, T2757 *Forsythia viridissima*, T2826 *Galeola faberi*, T2835 *Galium verum*, T2839 *Gallus gallus domesticus*, T2852 *Garcinia cowa*, T2884 *Gardenia jasminoides* var. *grandiflora*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T2988 *Glochidion eriocarpum*, T2989 *Glochidion sphaerogynum*, T3092 *Halenia corniculata*, T3122 *Hedyotis acutangula*, T3123 *Hedyotis auricularia*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3174 *Heliotropium indicum*, T3187 *Helleborus thibetanus*, T3200 *Hemidesmus indicus*, T3201 *Hemiphragma heterophyllum*, T3202 *Hemistepia lyrata* [Syn. *Hemistepia carthamoides*; *Saussurea carthamoides*], T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3241 *Hibiscus mutabilis*, T3283 *Hosta sieboldiana*, T3284 *Houttuynia cordata*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3292 *Hunteria zeylanica*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3308 *Hydrangea umbellata*, T3318 *Hylotelephium mingjinianum*, T3323 *Hymenodictyon excelsum*, T3332 *Hypecoum erectum*, T3334 *Hypecoum leptocarpum*, T3340 *Hypericum ascyron*, T3348 *Hypericum elodeoides*, T3361 *Hypericum perforatum*, T3363 *Hypericum sampsonii*, T3368 *Hypericum wightianum*, T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*], T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3394 *Ilex paraguariensis*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3398 *Ilex rotunda*, T3414 *Impatiens sicutifer*, T3423 *Indigofera tinctoria*, T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3457 *Iris dichotoma*, T3461 *Iris japonica*, T3466 *Iris potaninii*, T3471 *Iris tectorum*, T3475 *Isatis indigotica*, T3476 *Isatis indigotica*, T3479 *Isodon amethystoides*, T3495 *Isodon irrorata*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3547 *Ixeris chinensis*, T3548 *Ixeris sonchifolia*, T3588 *Juniperus formosana*, T3645 *Kummerowia striata*, T3659 *Lactuca indica*, T3662 *Lactuca sativa*, T3671 *Lagerstroemia indica*, T3672 *Lagerstroemia indica*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3738 *Lemna minor*, T3764 *Lepisorus thunbergianus*, T3765 *Lepisorus ussuriensis*, T3770 *Lespedeza cuneata*, T3845 *Linaria vulgaris*, T3863 *Liparis nervosa*, T3878 *Lithocarpus polystachyus*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3913 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T3928 *Lotus corniculatus*, T3953 *Lycianthes biflora*, T3990 *Lygodium japonicum*, T3996 *Lysimachia candida*, T3998 *Lysimachia christinae*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4009 *Maackia amurensis*, T4026 *Macrothelypteris oligophlebia*, T4082 *Mallotus japonicus*, T4091 *Malva sylvestris*, T4120 *Marsdenia tenacissima*, T4121 *Marsilea quadrifolia*, T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4127 *Matteuccia struthiopteris*, T4144 *Meconopsis nepaulensis*, T4145 *Meconopsis punicea*, T4170 *Melilotus albus*, T4173 *Melilotus suaveolens*, T4182 *Menispermum dauricum*, T4183 *Menispermum dauricum*, T4208 *Metasequoia glyptostroboides*, T4215 *Michelia yunnanensis*, T4219 *Microlepis marginata*, T4227 *Microula sikkimensis*, T4253 *Mirabilis jalapa*, T4280 *Morinda citrifolia*, T4384 *Narcissus tazetta* var. *chinensis*, T4391 *Nauclea officinalis*, T4423 *Nicandra physaloides*, T4456 *Nymphoides peltatum*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4503 *Onychium lucidum*, T4514 *Ophiorrhiza pumila*, T4530 *Ormosia hosiei*, T4552 *Osmunda japonica*, T4562 *Oxalis acetosella*, T4568 *Oxytropis myriophylla*, T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T4686 *Pedilanthus tithymaloides*, T4691 *Pelargonium hortorum*, T4705 *Peperomia pellucida*, T4710 *Pericampylus glaucus*, T4730 *Peristrophe roxburghiana*, T4740 *Petasites japonicus*, T4798 *Philonotis fontana*, T4800 *Phlegmariurus fordii*, T4801 *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], T4803 *Phlogacanthus curviflorus*, T4827 *Photinia parvifolia*, T4837 *Phyllanthus emblica*, T4838 *Phyllanthus flexuosus*, T4845 *Physalis alkekengi*, T4846 *Physalis alkekengi* var. *franchetii*, T4854 *Physalis pubescens*, T4859 *Physochlaina physaloides*, T4881 *Picrasma quassioides* [Syn. *Picrasma*

ailanthoides], T4884 *Picria felterrae*, T4998 *Plagiogyria euphlebia*, T5000 *Plagiogyria stenoptera*, T5018 *Pleuropterus ciliinervis*, T5033 *Poa sphondylodes*, T5061 *Polianthes tuberosa*, T5099 *Polygonum bistorta*, T5109 *Polygonum nodosum*, T5110 *Polygonum orientale*, T5114 *Polygonum polystachyum*, T5121 *Polygonum tinctorium*, T5149 *Populus canadensis*, T5150 *Populus cathayana*, T5172 *Portulaca grandiflora*, T5173 *Portulaca oleracea*, T5176 *Potamogeton natans*, T5177 *Potamogeton pectinatus*, T5181 *Potentilla chinensis*, T5182 *Potentilla discolor*, T5188 *Potentilla viscosa*, T5194 *Premna microphylla*, T5199 *Primula malacoides*, T5209 *Pronephrium simplex* [Syn. *Meniscium simplex*], T5267 *Psidium guajava*, T5289 *Pteris dactylina*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5363 *Pyrus calleryana*, T5388 *Rabdosia adenantha*, T5393 *Rabdosia longituba*, T5396 *Rabdosia rubescens*, T5397 *Rabdosia serra*, T5407 *Rana nigromaculata*; *Rana plancyi*, T5408 *Rana nigromaculata*; *Rana plancyi*, T5415 *Ranunculus sceleratus*, T5424 *Rauvolfia verticillata*, T5444 *Reboulia hemisphaerica*, T5455 *Rhamnus crenata*, T5457 *Rhamnus davurica*, T5466 *Rhaponticum uniflorum*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5497 *Rhodiola kirilowii*, T5524 *Rhododendron simsii*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5567 *Rosa laevigata*, T5569 *Rosa multiflora*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5592 *Rubus hirsutus*, T5595 *Rubus parviflorus*, T5607 *Rumex crispus*, T5608 *Rumex dentatus*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T5654 *Salix purpurea*, T5685 *Salvia plebeia*, T5712 *Sanguisorba officinalis*, T5714 *Sansevieria trifasciata*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5741 *Sargentodoxa cuneata*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5818 *Scoparia dulcis*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5836 *Scutellaria discolor*, T5838 *Scutellaria galericulata*, T5840 *Scutellaria indica*, T5852 *Sedum bulbiferum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5861 *Selaginella doederleinii*, T5871 *Selenarctos thibetanus*; *Ursus arctos*, T5884 *Senecio chrysanthemoides*, T5892 *Senecio nemorensis*, T5894 *Senecio oryzetorum*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5953 *Silene firma*, T5998 *Solanum dulcamara*, T6003 *Solanum khasianum*, T6008 *Solanum nigrum*, T6025 *Sonchus arvensis*, T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*], T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6087 *Spiranthes sinensis*, T6092 *Stachys palustris*, T6116 *Stenoloma chusanum*, T6118 *Stephania brachyandra*, T6119 *Stephania cepharantha*, T6121 *Stephania dicentrinifera*, T6122 *Stephania dielsiana*, T6125 *Stephania elegans*, T6128 *Stephania hernandifolia*, T6129 *Stephania japonica*, T6131 *Stephania longa*, T6133 *Stephania sinica*, T6135 *Stephania succifera*, T6137 *Stephania viridiflavens*, T6139 *Sterculia lychnophora*, T6205 *Sus scrofa*, T6206 *Sus scrofa domestica*, T6214 *Swertia chinensis*, T6217 *Swertia davidii*, T6219 *Swertia erythrosticta*, T6224 *Swertia kouitchensis*, T6226 *Swertia mileensis*, T6228 *Swertia nervosa*, T6234 *Swertia punicea*, T6252 *Symplocos chinensis*, T6260 *Syringa oblata*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6277 *Tadehagi*

triquetrum, T6278 *Tagetes erecta*, T6279 *Tagetes erecta*, T6285 *Tamarindus indica*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6301 *Taraxacum mongolicum*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6374 *Thalictrum atriplex*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6398 *Thalictrum microgynum*, T6402 *Thalictrum omeiense*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], T6412 *Thalictrum squarrosum*, T6414 *Thalictrum thunbergii*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6435 *Thladiantha cordifolia*, T6436 *Thlaspi arvense*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6469 *Tithonia diversifolia*, T6537 *Tripterispermum japonicum*, T6538 *Tripterispermum taiwanense*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6554 *Trollius macropetalus*, T6555 *Tropaeolum majus*, T6560 *Tulipa edulis*, T6566 *Tupistra chinensis*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*], T6598 *Ulva conglobata*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6645 *Urena lobata*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6655 *Ustilaginoidea virens*, T6684 *Vanilla planifolia*, T6691 *Veratrilla baillonii*, T6705 *Verbascum thapsus*, T6716 *Vernonia esculenta*, T6722 *Veronica anagallis-aquatica*, T6731 *Veronicastrum sibiricum*, T6735 *Viburnum dilatatum*, T6767 *Viola yedoensis*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].

clear heat and settle fright T0942 *Biebersteinia heterostemon*, T5184 *Potentilla kleiniana*.

clear heat and stanch bleeding T1112 *Calendula arvensis*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua* T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*.

clear heat and transform damp T1106 *Caesalpinia minax*, T2984 *Gliricidia lotoides* [Syn. *Mollugo lotoides*], T4261 *Mollugo pentaphylla*, T4799 *Philydrum lanuginosum*, T5554 *Rodgersia aesculifolia*, T6049 *Sophora vicifolia*.

clear heat toxin T1709 *Corydalis bungeana*.

clear intestines and dry damp T6028 *Sophora alopecuroides*.

clear liver T1241 *Cassia occidentalis*, T1242 *Cassia occidentalis*, T5690 *Salvia roborowskii*.

clear liver and brighten eyes T0049 *Acer ginnala*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1035 *Broussonetia papyrifera*, T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T1746 *Corydalis taliensis*, T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T2336 *Elephas maximus*, T2772 *Fraxinus mandshurica*, T3040 *Gomphrena globosa*, T3635 *Koeleruteria paniculata*, T3636 *Koeleruteria paniculata*, T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T4976 *Piptanthus nepalensis*, T5413 *Ranunculus cantoniensis*, T6034 *Sophora japonica*, T6036 *Sophora japonica*.

clear liver and disinhibit gallbladder T1705 *Corydalis adunca*, T6227 *Swertia musotii*, T6234 *Swertia punicea*, T6901 *Zea mays*.

clear liver and relieve constipation T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*.

clear liver fire T1296 *Celosia argentea*, T3827 *Ligustrum japonicum*, T4401 *Nelumbo nucifera*.

- clear lung** T1241 *Cassia occidentalis*, T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria walujewii*, T3242 *Hibiscus rosa-sinensis*, T4388 *Nasturtium officinale*, T5521 *Rhododendron przewalskii*.
- clear lung and boost qi** T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*].
- clear lung and calm liver** T1150 *Camellia sinensis* [Syn. *Thea sinensis*].
- clear lung and disinhibit throat** T3701 *Lasiosphaera fenzlii*, T3961 *Lycoperdon pyriforme*, T4537 *Oroxylum indicum*, T6139 *Sterculia lychnophora*.
- clear lung and downbear fire** T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*].
- clear lung and downbear qi** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*.
- clear lung and engender liquid** T4573 *Pachyrrhizus erosus*.
- clear lung and moisten dryness** T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T4665 *Passiflora edulis*.
- clear lung and relieve cough** T0173 *Adiantum lunulatum*, T0759 *Aspidistra elatior*, T1705 *Corydalis adunca*, T1789 *Crepis napifera*, T2213 *Dioscorea zingiberensis*, T2433 *Eriobotrya japonica*, T2565 *Eupatorium lindleyanum*, T3247 *Hibiscus taiwanensis*, T3248 *Hibiscus tiliaceus*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T4520 *Opuntia ficus-indica*, T5449 *Reineckea carnea*, T6304 *Taxillus levinei*.
- clear lung and suppress cough** T6055 *Sorbus tianschanica*.
- clear lung and transform phlegm** T0895 *Benincasa hispida*, T1006 *Brassica chinensis*, T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1967 *Cynoglossum amabile*, T3190 *Helminthostachys zeylanica*, T3246 *Hibiscus syriacus*, T6511 *Trichosanthes kirilowii*.
- clear lung heat** T6581 *Tylophora mollissima*.
- clear summerheat** T2554 *Eupatorium cannabinum*, T4335 *Mussaenda pubescens*, T4526 *Origanum vulgare*, T4979 *Pistacia chinensis*, T5227 *Prunus mume*.
- clear summerheat and eliminate damp** T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4399 *Nelumbo nucifera*.
- clear summerheat and resolve toxin** T0537 *Antirrhinum majus*, T1595 *Codium fragile*, T5402 *Radermachera sinica*.
- clear summerheat and transform damp** T4172 *Melilotus suaveolens*.
- clear summerheat heat** T4101 *Mangifera indica*, T6492 *Trapa bispinosa*.
- clear vacuity fire** T1961 *Cynanchum thesioides*.
- clear vacuity heat** T0607 *Arenaria juncea*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T3390 *Ilex cornuta*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T5955 *Silene jennisseensis*, T6104 *Stellaria dichotoma* var. *lancoelata*.
- close sores** T0563 *Arachniodes exilis*, T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*], T1594 *Cocos nucifera*, T1777 *Crataegus pinnatifida*, T2598 *Euphorbia lathyris*, T3673 *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*], T3775 *Lethariella cladonioides*, T5228 *Prunus mume*, T5266 *Psidium guajava*, T6745 *Vicia faba*, T6747 *Vicia faba*.
- close sores and engender flesh** T0019 *Acacia catechu*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1896 *Cupressus funebris*, T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*, T3128 *Hedysarum multijugum*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*].
- close sores and stanch bleeding** T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*].
- constrain blood** T5142 *Poncirus trifoliata*.
- constrain lung** T4637 *Papaver somniferum*, T5361 *Pyrus betulaefolia*, T5374 *Quercus infectoria*.
- constrain lung and astringe intestines** T2964 *Ginkgo biloba*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*.
- constrain lung and relieve cough** T2454 *Erysimum diffusum*, T4371 *Nandina domestica*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4631 *Papaver nudicaule* var. *chinense*, T5228 *Prunus mume*.
- constrain lung and settle asthma** T2961 *Ginkgo biloba*, T6266 *Syzygium cumini*.
- constrain sweat** T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*], T4548 *Oryza sativa* var. *glutinosa*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T6918 *Ziziphus jujuba* var. *spinosa*, T6919 *Ziziphus jujuba* var. *spinosa*.
- constrain sweat and astringe intestines** T5821 *Scopolia japonica*.
- constrain sweat and dry damp** T4670 *Patrinia heterophylla*, T4673 *Patrinia scabra*.
- constrain sweat and secure exterior** T3129 *Hedysarum polybotrys*.
- constrain yin and check sweating** T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*].
- consume sore and kill worms** T1858 *Croton tiglium*.
- contract damp** T0019 *Acacia catechu*.
- contract damp and close sores** T6615 *Uncaria gambir*.
- contract damp and kill worms** T0299 *Aleurites cordata* [Syn. *Aleurites fordii*].
- contract damp and relieve itch** T1316 *Cephalanthus occidentalis*, T6339 *Tephrosia purpurea*, T6476 *Torilis japonica*.
- contract uterus and stanch bleeding** T1541 *Claviceps purpurea*.
- cool blood** T0607 *Arenaria juncea*, T0678 *Artemisia japonica*, T1045 *Bubalus bubalis*, T1161 *Campsis grandiflora*, T2334 *Elephantopus scaber*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T3242 *Hibiscus rosa-sinensis*, T3334 *Hypocoum leptocarpum*, T3649 *Laccifer lacca*, T4388 *Nasturtium officinale*, T4402 *Nelumbo nucifera*, T4500 *Onosma paniculatum*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5018 *Pleuropterus ciliinervis*, T5120 *Polygonum tinctorium*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T5955 *Silene jennisseensis*, T6048 *Sophora viciifolia*, T6522 *Trifolium repens*.
- cool blood and check diarrhea** T2993 *Gloeostereum incarnatum*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*.
- cool blood and check dysentery** T5181 *Potentilla chinensis*.
- cool blood and clear heat** T3444 *Ipomoea aquatica* [Syn. *Convolvulus*

- repens*; *Ipomoea reptans*], T5545 *Ribes fasciculatum* var. *chinense*.
- cool blood and disinhibit throat** T3475 *Isatis indigotica*.
- cool blood and disperse macula** T3476 *Isatis indigotica*, T5121 *Polygonum tinctorium*.
- cool blood and disperse stasis** T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*].
- cool blood and disperse swelling** T0262 *Ajuga ciliata*, T0866 *Baphicacanthus cusia* [Syn. *Sirobilanthes cusia*], T3123 *Hedyotis auricularia*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6484 *Trachelospermum jasminoides*, T6767 *Viola yedoensis*.
- cool blood and disperse welling abscess** T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- cool blood and dissipate blood** T0263 *Ajuga decumbens*.
- cool blood and dissipate stasis** T0267 *Ajuga nipponensis*, T1034 *Broussonetia papyrifera*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T5685 *Salvia plebeia*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- cool blood and extinguish wind** T1986 *Cyrtomium fortunei*, T4730 *Peristrophe roxburghiana*.
- cool blood and quicken blood** T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T1448 *Cirsium chinense*, T3881 *Lithospermum erythrorhizon*, T5647 *Sagittaria sagittifolia*, T6092 *Stachys palustris*.
- cool blood and relieve pain** T4479 *Odonites serotina*.
- cool blood and resolve toxin** T0297 *Alchornea trewioides*, T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*], T0875 *Basella rubra*, T1197 *Cardiospermum halicacabum*, T1251 *Cassytha filiformis*, T2927 *Gentiana rhodantha*, T3002 *Glycine max*, T3192 *Hemerocallis citrina*, T3244 *Hibiscus syriacus*, T3247 *Hibiscus taiwanensis*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4248 *Mimosa pudica*, T4520 *Opuntia ficus-indica*, T4658 *Parmelia tinctorum*, T4836 *Phyllanthus emblica*, T5100 *Polygonum chinense*, T5156 *Populus nigra* var. *thevestina*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5773 *Saxifraga stolonifera*, T6367 *Teucrium quadrifarium*.
- cool blood and stanch bleeding** T0226 *Agave sisalana*, T0687 *Artemisia myriantha*, T0696 *Artemisia sieversiana*, T0805 *Astragalus sinicus*, T0859 *Balanophora involucreta*, T0867 *Baphicacanthus cusia* [Syn. *Sirobilanthes cusia*], T0890 *Begonia limprichtii*, T1043 *Bryophyllum pinnatum*, T1116 *Callicarpa arborea*, T1113 *Calendula officinalis*, T1145 *Camellia japonica*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1212 *Carpesium eximum*, T1299 *Celosia cristata*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1529 *Cladonia verticillata*, T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1554 *Clerodendron cyrtophyllum*, T1684 *Cordyline stricta*, T1896 *Cupressus funebris*, T2191 *Dioscorea bulbifera*, T2218 *Diospyros kaki*, T2281 *Dryopteris crassirhizoma*, T2282 *Dryopteris filix-mas*, T2290 *Duchesnea indica*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2412 *Equisetum sylvaticum*, T2591 *Euphorbia humifusa*, T2691 *Farfugium japonicum*, T3092 *Halenia corniculata*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3241 *Hibiscus mutabilis*, T3340 *Hypericum ascyron*, T3363 *Hypericum sampsonii*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3416 *Imperata cylindrica* var. *major*, T3423 *Indigofera tinctoria*, T3547 *Ixeris chinensis*, T3681 *Lamium barbatum*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3863 *Liparis nervosa*, T4009 *Maackia amurensis*, T4259 *Mnium cuspidatum*, T4398 *Nelumbo nucifera*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T5133 *Polytrichum commune*, T5173 *Portulaca oleracea*, T5182 *Potentilla discolor*, T5207 *Prismatomeris tetrandra*, T5295 *Pteris multifida*, T5449 *Reineckea carnea*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5578 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumanniana*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*, T5605 *Rumex acetosa*, T5607 *Rumex crispus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5701 *Salvia yunnanensis*, T5712 *Sanguisorba officinalis*, T5754 *Saussurea graminea*, T5852 *Sedum bulbiferum*, T5868 *Selaginella stauntoniana*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6119 *Stephania cepharantha*, T6250 *Symplocos caudata*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6508 *Trichosanthes cucumeroides*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].
- cool blood and supplement blood** T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- cool liver** T1526 *Cladonia rangiferina*, T6374 *Thalictrum atriplex*.
- cool liver and resolve toxin** T2258 *Dracocephalum rupestre*.
- cool liver and settle fright** T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*.
- cool liver and stanch bleeding** T1184 *Capsella bursa-pastoris*, T2257 *Dracocephalum moldavicum*, T5606 *Rumex acetosa*.
- course liver and disinhibit gallbladder** T1907 *Curcuma wengujin*, T1966 *Cynara scolymus*, T5957 *Silybum marianum*.
- course liver and free network vessels** T3360 *Hypericum patulum*.
- course liver and harmonize stomach** T0275 *Akebia quinata*, T4537 *Oroxylum indicum*.
- course liver and quicken blood** T2555 *Eupatorium chinense*.
- course liver and rectify qi** T1479 *Citrus grandis*.
- course liver and resolve depression** T5137 *Poncirus trifoliata*.
- course wind** T1675 *Corchorus olitorius*, T6889 *Zanthoxylum podocarpum*.
- course wind and clear heat** T0015 *Abutilon indicum*, T0167 *Adenantha pavonina*, T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1410 *Chukrasia tabularis*, T1573 *Clinopodium chinense*, T2257 *Dracocephalum moldavicum*, T2258 *Dracocephalum rupestre*, T2720 *Ficus hispida*, T3749 *Leontopodium alpinum*, T4413 *Nepeta cataria*, T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*], T5687 *Salvia prionitis*, T6023 *Solidago virgaurea*.
- course wind and diffuse lung** T4714 *Perilla frutescens*.
- course wind and dispel damp** T2189 *Dioscorea althaeoides*.
- course wind and dissipate cold** T4937 *Piper betle*.
- course wind and dissipate heat** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T0586 *Arctium lappa*, T3819 *Ligusticum brachylobum*, T4186 *Mentha piperita*, T4289 *Morus alba*, T4291 *Morus*

- australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaula*.
- course wind and outthrust papules** T1417 *Cimicifuga acerina*, T1423 *Cimicifuga nanchuanensis*.
- course wind and overcome damp** T3520 *Isodon rosthornii*.
- course wind and resolve exterior** T0967 *Boeninghausenia sessilicarpa*, T1446 *Cipadessa baccifera*, T1535 *Clausena excavata*, T1538 *Clausena lansium*, T3646 *Kyllinga brevifolia*, T4223 *Micromelum integerrimum*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4320 *Murraya kwangsiensis*, T4470 *Ocimum basilicum*, T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*, T6735 *Viburnum dilatatum*.
- decay wart and mole** T5026 *Plumbagella micrantha*.
- diffuse damp and arouse spleen** T0463 *Anemone altaica*.
- diffuse lung** T5011 *Platycodon grandiflorum*.
- diffuse lung and calm asthma** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- diffuse lung and calm panting** T0591 *Ardisia arborescens*.
- diffuse lung and effuse exterior** T2521 *Eucalyptus tereticornis*.
- diffuse lung and outthrust papules** T0586 *Arctium lappa*.
- diffuse lung and rectify qi** T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*].
- diffuse lung and resolve exterior** T4003 *Lysimachia microcarpa*.
- diffuse lung and suppress cough** T0676 *Artemisia dracunculus*, T1258 *Casuarina equisetifolia*, T1479 *Citrus grandis*, T4689 *Peganum nigellastrum*.
- diffuse lung and transform phlegm** T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*, T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*].
- diffuse lung qi** T4687 *Peganum harmala*.
- disinhibit damp** T0137 *Aconitum tanguticum*, T0157 *Actinidia callosa* var. *henryi*, T0567 *Aralia armata*, T0895 *Benincasa hispida*, T0941 *Bidens tripartita*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1143 *Calystegia hederacea*, T1172 *Canna edulis*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1258 *Casuarina equisetifolia*, T1526 *Cladonia rangiferina*, T1675 *Corchorus olitorius*, T1747 *Corydalis thalictrifolia*, T1831 *Crotalaria sessiliflora*, T2334 *Elephantopus scaber*, T2649 *Evolvulus alsinoides*, T2715 *Fibraurea recisa*, T2902 *Gentiana algida*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3142 *Helianthus annuus*, T3361 *Hypericum perforatum*, T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*], T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3555 *Jasminum nudiflorum*, T4144 *Meconopsis nepalensis*, T4145 *Meconopsis punicea*, T4183 *Menispermum dauricum*, T4335 *Mussaenda pubescens*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4526 *Origanum vulgare*, T4840 *Phyllanthus niruri*, T4979 *Pistacia chinensis*, T5687 *Salvia prionitis*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5863 *Selaginella moellendorffii*, T5939 *Shiraiia bambusicola*, T5978 *Smilax glauco-china*, T6116 *Stenoloma chusanum*, T6217 *Swertia davidii*, T6224 *Swertia kouitchensis*, T6231 *Swertia pseudochinensis*, T6234 *Swertia punicea*, T6359 *Teucrium bidentatum*, T6398 *Thalictrum microgynum*, T6431 *Thesium chinense*, T6912 *Zinnia elegans*.
- disinhibit damp and abate jaundice** T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T4148 *Medicago sativa*, T5207 *Prismatomeris tetrandra*, T5397 *Rabdosia serra*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T6219 *Swertia erythrosticta*, T6226 *Swertia mileensis*, T6260 *Syringa oblata*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*].
- disinhibit damp and check diarrhea** T2387 *Epilobium hirsutum*, T5528 *Rhodomyrtus tomentosa*.
- disinhibit damp and disperse glomus** T3928 *Lotus corniculatus*.
- disinhibit damp and disperse stagnation** T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*].
- disinhibit damp and disperse swelling** T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T3628 *Kerria japonica*, T3681 *Lamium barbatum*, T3996 *Lysimachia candida*, T4837 *Phyllanthus emblica*, T6131 *Stephania longa*, T6367 *Teucrium quadrifarium*.
- disinhibit damp and eliminate impediment** T4814 *Phlomis umbrosa*.
- disinhibit damp and eliminate turbidity** T2208 *Dioscorea septemloba*.
- disinhibit damp and fortify stomach** T6214 *Swertia chinensis*.
- disinhibit damp and free milk** T4120 *Marsdenia tenacissima*.
- disinhibit damp and free strangury** T2213 *Dioscorea zingiberensis*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*.
- disinhibit damp and harmonize center** T4305 *Mosla dianthera*.
- disinhibit damp and harmonize stomach** T5395 *Rabdosia nervosa*.
- disinhibit damp and quicken blood** T4842 *Phyllanthus reticulatus*.
- disinhibit damp and relieve itch** T4154 *Melaleuca leucadendra*.
- disinhibit damp and relieve pain** T2327 *Elaeagnus angustifolia*, T3398 *Ilex rotunda*.
- disinhibit damp and resolve toxin** T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T5671 *Salvia digitaloides*.
- disinhibit damp and stanch bleeding** T3672 *Lagerstroemia indica*.
- disinhibit damp and transform turbidity** T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- disinhibit damp and turbidity** T2197 *Dioscorea futschauensis*, T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*], T2210 *Dioscorea spongiosa*, T2212 *Dioscorea tokoro*.
- disinhibit damp heat** T5185 *Potentilla multifida*.
- disinhibit diaphragm** T1488 *Citrus junos*, T5993 *Solanum capsicastrum*.
- disinhibit gallbladder** T0647 *Armoracia lapathifolia*, T1315 *Cephaelis ipecacuanha*.
- disinhibit gallbladder and free intestines** T0984 *Bos taurus domesticus*; *Bubalus bubalis*.
- disinhibit joints** T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T4290 *Morus alba*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*.

- disinhibit liver and gallbladder** T6656 *Ustilago maydis*.
- disinhibit lung and transform phlegm** T1007 *Brassica juncea*.
- disinhibit pharynx and larynx** T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4845 *Physalis alkekengi*.
- disinhibit qi** T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*].
- disinhibit sinews and bones** T0467 *Anemone flaccida*.
- disinhibit throat** T0892 *Belamcanda chinensis*, T1165 *Canarium album*, T1981 *Cyprinus carpio*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T3240 *Hibiscus esculentus*, T4210 *Michelia champaca*, T5011 *Platycodon grandiflorum*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6655 *Ustilagoidea vires*.
- disinhibit throat and disperse goiter** T0992 *Bos taurus domesticus*; *Bubalus bubalis*.
- disinhibit throat and disperse swelling** T0197 *Aegle marmelos*, T4538 *Oroxylum indicum*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6084 *Spiraea prunifolia*, T6086 *Spiraea thunbergii*.
- disinhibit throat and relieve cough** T2257 *Dracocephalum moldavicum*.
- disinhibit throat and restore voice** T5406 *Rana limnocharis*.
- disinhibit urine** T0011 *Abrus precatorius*, T0184 *Adonis amurensis*, T0274 *Akebia quinata*, T0275 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0379 *Alternanthera philoxeroides*, T0388 *Amaranthus lividus*, T0423 *Ampelopsis brevipedunculata*, T0598 *Ardisia japonica*, T0632 *Aristolochia manshuriensis*, T0647 *Armoracia lapathifolia*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0722 *Arundo donax*, T0834 *Averrhoa carambola*, T1032 *Broussonetia papyrifera*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1174 *Cannabis sativa*, T1241 *Cassia occidentalis*, T1385 *Chorda filum*, T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1471 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*, T1516 *Citrus tankan*, T1518 *Citrus unshiu*, T1608 *Coffea arabica*, T1610 *Coffea liberica*, T1922 *Cyanotis vaga*, T2407 *Equisetum arvense*, T2410 *Equisetum pratense*, T2612 *Euphorbia prolifera*, T2628 *Euphrasia officinalis*, T2730 *Fimbristylis dichotoma*, T2749 *Fomes officinalis*, T3066 *Gryllulus chinensis*, T3122 *Hedyotis acutangula*, T3128 *Hedysarum multijugum*, T3143 *Helianthus annuus*, T3174 *Heliotropium indicum*, T3394 *Ilex paraguariensis*, T3594 *Juniperus rigida*, T3662 *Lactuca sativa*, T3758 *Lepidium sativum*, T3765 *Lepisorus ussuriensis*, T3785 *Levisticum officinale*, T3815 *Ligularia stenocephala*, T3885 *Litsea cubeba*, T3920 *Lophatherum gracile*, T3988 *Lycoris squamigera*, T4254 *Miscanthus sinensis*, T4290 *Morus alba*, T4388 *Nasturtium officinale*, T4438 *Nostoc flagelliforme*, T4644 *Parasilurus asotos*, T4785 *Phaseolus vulgaris*, T4829 *Phragmites communis*, T4846 *Physalis alkekengi* var. *franchetii*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T5419 *Raphanus sativus*, T5452 *Reseda luteola*, T5605 *Rumex acetosa*, T5606 *Rumex acetosa*, T5626 *Ruta graveolens*, T5651 *Salix babylonica*, T5726 *Saponaria officinalis*, T5953 *Silene firma*, T5963 *Sinodielsia yunnanensis*, T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*], T6423 *Theobroma cacao*, T6598 *Ulva conglobata*, T6673 *Vaccinium vitis-idaea*, T6798 *Vitis vinifera*, T6820 *Wikstroemia indica*, T6862 *Zanthoxylum ailanthoides*, T6902 *Zea mays*.
- disinhibit urine** T4797 *Phillyrea latifolia*.
- disinhibit urine and abate jaundice** T4147 *Medicago falcata*.
- disinhibit urine and disperse edema** T1415 *Cichorium intybus*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T2479 *Erythrina variegata* var. *orientalis*, T3200 *Hemidesmus indicus*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T4050 *Magnolia sieboldii*, T5818 *Scoparia dulcis*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T6099 *Stauntonia chinensis*, T6100 *Stauntonia hexaphylla*, T6433 *Thevetia neriifolia* [Syn. *Thevetia peruviana*], T6901 *Zea mays*.
- disinhibit urine and draw toxin** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*.
- disinhibit urine and free channels** T6311 *Taxus cuspidata*.
- disinhibit urine and free milk** T4573 *Pachyrrhizus erosus*.
- disinhibit urine and free stool** T0389 *Amaranthus tricolor*, T2580 *Euphorbia antiquorum*, T3286 *Hovenia dulcis*, T4091 *Malva sylvestris*, T4845 *Physalis alkekengi*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*].
- disinhibit urine and free strangury** T0001 *Abelmoschus manihot*, T0073 *Achyranthes bidentata*, T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*], T0759 *Aspidistra elatior*, T0853 *Baeckeke frutescens*, T1931 *Cyclea barbata*, T1933 *Cyclea sutchuenensis*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2119 *Derris eriocarpa*, T2134 *Desmodium styracifolium*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2952 *Gerbera piloselloides*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3416 *Imperata cylindrica* var. *major*, T3764 *Lepisorus thunbergianus*, T3769 *Lespedeza bicolor*, T4456 *Nymphoides peltatum*, T4562 *Oxalis acetosella*, T5033 *Poa sphondylodes*, T5098 *Polygonum aviculare*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T6301 *Taraxacum mongolicum*, T6582 *Tylophora ovata*, T6597 *Ulmus pumila*.
- disinhibit urine and quiet spirit** T3289 *Humulus lupulus*.
- disinhibit urine and remove stone** T4432 *Nigella glandulifera*.
- disinhibit urine and resolve toxin** T1357 *Chelidonium majus*, T1823 *Crotalaria juncea*, T4760 *Peucedanum japonicum*, T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*.
- disinhibit water** T0544 *Apium graveolens*, T1033 *Broussonetia papyrifera*, T1194 *Carassius auratus*, T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*, T1878 *Cucumis sativus*, T2115 *Dermatocarpon minimum*, T2321 *Ecklonia kurome*, T2585 *Euphorbia esula*, T3668 *Lagenaria siceraria* var. *depressa*, T3678 *Laminaria japonica*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3935 *Luffa cylindrica*, T4616 *Pandanus tectorius*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5238 *Prunus salicina*, T5740 *Sargassum vachellianum*, T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*], T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6640 *Undaria pinnatifida*, T6750 *Vicia sativa*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6826

Wisteria sinensis, T6925 *Zostera marina*.

disinhibit water and disperse distention T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T6602 *Umbilicaria hypococcinea*.

disinhibit water and disperse edema T0172 *Adiantum caudatum*, T0553 *Apocynum venetum*, T1004 *Brasenia schreberi*, T1263 *Catalpa ovata*, T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1595 *Codium fragile*, T1633 *Commelina communis*, T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1881 *Cucurbita moschata*, T1954 *Cynanchum chinense*, T2282 *Dryopteris filix-mas*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2589 *Euphorbia helioscopia*, T3738 *Lemna minor*, T3999 *Lysimachia clethroides*, T4026 *Macrothelypteris oligophlebia*, T4121 *Marsilea quadrifolia*, T4287 *Morus alba*, T4306 *Mosla grosseserrata*, T4505 *Ophiocephalus argus*, T4818 *Phoebe nanmu*, T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*], T5407 *Rana nigromaculata*; *Rana plancyi*, T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5685 *Salvia plebeia*, T6129 *Stephania japonica*, T6136 *Stephania tetrandra*, T6227 *Swertia mussotii*, T6436 *Thlaspi arvense*, T6541 *Tripterygium regelii*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6709 *Verbena officinalis*, T6799 *Vitis vinifera*, T6861 *Zanthoxylum ailanthoides*.

disinhibit water and free stool T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T5231 *Prunus persica*.

disinhibit water and free strangury T0171 *Adiantum capillus-veneris*, T0173 *Adiantum lumulatum*, T0175 *Adiantum pedatum*, T0264 *Ajuga forrestii*, T3002 *Glycine max*, T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3578 *Juncus effusus*, T3990 *Lygodium japonicum*, T3998 *Lysimachia christinae*, T4855 *Physeter catodon*, T5838 *Scutellaria galericulata*, T6596 *Ulmus parvifolia*.

disinhibit water and harmonize center T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*.

disinhibit water and kill worms T2051 *Daucus carota* var. *sativa*.

disinhibit water and percolate damp T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T5129 *Polyporus umbellatus*, T5169 *Poria cocos*.

disinhibit water and precipitate qi T1980 *Cyprinus carpio*.

disinhibit water and resolve toxin T4843 *Phyllanthus urinaria*, T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*.

disinhibit water and transform damp T5289 *Pteris dactylina*.

dispel cold T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3877 *Litchi chinensis*, T6528 *Trigonella foenum-graecum*, T6889 *Zanthoxylum podocarpum*.

dispel cold and relieve pain T1441 *Cinnamomum japonicum*, T4964 *Piper retrofractum*.

dispel damp T0301 *Aleuritopteris argentea*, T4080 *Mallotus apelta*.

dispel damp and check diarrhea T6895 *Zanthoxylum simulans*.

dispel damp and disinhibit urine T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*.

dispel damp and disinhibit water T5176 *Potamogeton natans*.

dispel damp and disperse swelling T0421 *Amorpha fruticosa*.

dispel damp and dissipate cold T0932 *Betula luminifera*, T1901 *Curculigo*

orchiooides.

dispel damp and fortify spleen T3766 *Lepista nuda*.

dispel damp and fortify stomach T0142 *Acorus calamus*.

dispel damp and free network vessels T1205 *Carica papaya*, T4938 *Piper boehmeriaefolium*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*.

dispel damp and kill worms T4859 *Physochlaina physaloides*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*.

dispel damp and relieve itch T2988 *Glochidion eriocarpum*.

dispel damp and relieve pain T0006 *Abies nephrolepis*, T0138 *Aconitum umbrosum*, T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0572 *Aralia elata*, T2805 *Fugu ocellatus*, T5964 *Sinomenium acutum*.

dispel damp and resolve toxin T1932 *Cyclea racemosa*, T4689 *Peganum nigellastrum*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.

dispel damp and strengthen spleen T0358 *Alpinia katsumadai*, T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*.

dispel damp and transform stasis T1533 *Clausena dentata*, T1534 *Clausena dunniana*.

dispel phlegm T0012 *Abrus precatorius*, T0598 *Ardisia japonica*, T1315 *Cephaelis ipecacuanha*, T1385 *Chorda filum*, T2268 *Drosera rotundifolia*, T2321 *Ecklonia kurome*, T3678 *Laminaria japonica*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T3988 *Lycoris squamigera*, T4423 *Nicandra physaloides*, T4518 *Oppopanax chironium*, T4814 *Phlomis umbrosa*, T4858 *Physochlaina infundibularis*, T4908 *Pinus bungeana*, T5011 *Platycodon grandiflorum*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5087 *Polygala telephioides*, T5502 *Rhododendron anthopogonoides*, T5508 *Rhododendron dauricum*, T5522 *Rhododendron seniavinii*, T5594 *Rubus parkeri*, T5719 *Sapindus mukorossi*, T5726 *Saponaria officinalis*, T6640 *Undaria pinnatifida*.

dispel phlegm and allay thirst T1247 *Cassia sophera*.

dispel phlegm and disinhibit damp T0595 *Ardisia crispa*.

dispel phlegm and disinhibit throat T1858 *Croton tiglium*.

dispel phlegm and dissipate binds T3308 *Hydrangea umbellata*.

dispel phlegm and eliminate damp T5071 *Polygala arillata*.

dispel phlegm and interrupt malaria T0363 *Alpinia speciosa*, T2158 *Dichroa febrifuga*.

dispel phlegm and open orifices T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*.

dispel phlegm and promote vomiting T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T6429 *Thermopsis lupinoides*.

dispel phlegm and relieve cough T3709 *Lathyrus pratensis*, T5513 *Rhododendron mariae*, T5981 *Smilax riparia*.

dispel phlegm and settle asthma T2439 *Eruca sativa*, T4418 *Nerium indicum*.

dispel phlegm and suppress cough T2697 *Ferula borealis*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*].

dispel stasis T1181 *Capra hircus*; *Ovis aries*, T1212 *Carpesium eximium*, T1416 *Cicuta virosa*, T1558 *Clerodendron inerme*, T4418 *Nerium indicum*, T5238 *Prunus salicina*, T5587 *Rubus alceaefolius*, T6507 *Trichosanthes cucumeroides*.

- dispel stasis and disperse swelling** T1449 *Cirsium japonicum*, T1784 *Cratogeomys cochinchinense*, T2328 *Elaeis guineensis*, T4670 *Patrinia heterophylla*, T4673 *Patrinia scabra*, T4740 *Petasites japonicus*, T5411 *Randia spinosa*, T5537 *Rhus sylvestris*, T5613 *Rumex obtusifolius*.
- dispel stasis and engender flesh** T5586 *Rubia yunnanensis*, T5697 *Salvia trijuga*.
- dispel stasis and harmonize construction** T5301 *Pterocarpus indicus*.
- dispel stasis and regulate menstruation** T2130 *Desmodium gangeticum*, T4005 *Lysionotus pauciflorus*.
- dispel stasis and relieve pain** T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0890 *Begonia limprichtii*, T1101 *Caesalpinia decapetala*, T1129 *Calophyllum inophyllum*, T1491 *Citrus limon*, T1495 *Citrus limonia*, T1796 *Crinum asiaticum* var. *sinicum*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T3360 *Hypericum patulum*, T3479 *Isodon amethystoides*, T4131 *Maytenus confertiflorus*, T5365 *Pyrus pashia*.
- dispel stasis and stanch bleeding** T1566 *Clerodendrum inerme*, T2280 *Dryopteris chrysocoma*, T3278 *Homo sapiens*, T4399 *Nelumbo nucifera*, T4549 *Osbeckia chinensis*, T4552 *Osmunda japonica*.
- dispel summerheat** T0687 *Artemisia myriantha*, T1490 *Citrus limon*, T1494 *Citrus limonia*, T4263 *Momordica charantia*, T4397 *Nelumbo nucifera*.
- dispel summerheat and effuse exterior** T2563 *Eupatorium japonicum*.
- dispel summerheat and engender liquid** T1544 *Cleistocalyx operculatus*.
- dispel summerheat and resolve exterior** T0212 *Agastache rugosus*.
- dispel summerheat and transform damp** T1278 *Cedrela sinensis*.
- dispel wind** T0065 *Achillea millefolium*, T0359 *Alpinia officinarum*, T0544 *Apium graveolens*, T0567 *Aralia armata*, T0750 *Asparagus gobicus*, T0784 *Astilbe chinensis*, T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T0888 *Beesia calthaeifolia*, T1032 *Broussonetia papyrifera*, T1171 *Canis familiaris*, T1175 *Cannabis sativa*, T1180 *Capparis spinosa*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1437 *Cinnamomum camphora*, T1582 *Cnidium monnieri*, T1650 *Convolvulus arvensis*, T1746 *Corydalis taliensis*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*], T2154 *Dicentra spectabilis*, T2263 *Dregea volubilis*, T3082 *Gynocardia odorata*, T3142 *Helianthus annuus*, T3594 *Juniperus rigida*, T3674 *Laggera alata*, T3810 *Ligularia nelumbifolia*, T3847 *Lindera angustifolia*, T3878 *Lithocarpus polystachyus*, T4020 *Macleaya cordata*, T4029 *Maesa japonica*, T4126 *Matteuccia orientalis*, T4188 *Mentha rotundifolia*, T4662 *Parthenocissus tricuspidata*, T4842 *Phyllanthus reticulatus*, T4912 *Pinus koraiensis*, T5107 *Polygonum multiflorum*, T5626 *Ruta graveolens*, T5651 *Salix babylonica*, T5741 *Sargentodoxa cuneata*, T5767 *Saussurea pulchella*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5963 *Sinodielsia yunnanensis*, T5978 *Smilax glauco-china*, T6359 *Teucrium bidentatum*, T6499 *Tribulus terrestris*, T6578 *Tylophora atrofolliculata*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- dispel wind and attack toxin** T2897 *Gelsemium elegans*.
- dispel wind and brighten eyes** T0805 *Astragalus sinicus*, T0806 *Astragalus sinicus*, T1185 *Capsella bursa-pastoris*, T3957 *Lycium chinense*.
- dispel wind and check tetany** T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T1084 *Buthus martensi*, T4903 *Pinellia pedatisecta*.
- dispel wind and clear heat** T0979 *Bombyx mori*, T3865 *Lippia nodiflora*, T5119 *Polygonum thunbergii*, T5234 *Prunus persica*, T5773 *Saxifraga stolonifera*, T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*.
- dispel wind and disinherit damp** T0045 *Acanthopanax trifoliatum*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0721 *Arundina chinensis*, T1003 *Brandisia hancei*, T1924 *Cyathula officinalis*, T2020 *Damnacanthus indicus*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2194 *Dioscorea colletii*, T2723 *Ficus pumila*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3471 *Iris tectorum*, T4439 *Nothapodytes pittosporoides*, T4527 *Orixa japonica*, T4542 *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*], T5114 *Polygonum polystachyum*, T5178 *Potamogeton perfoliatus*, T5401 *Rabdosia yunnanensis*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*], T5650 *Salix babylonica*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5795 *Schisandra micrantha*, T5976 *Smilax china* [Syn. *Smilax japonica*], T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T6645 *Urena lobata*, T6676 *Valeriana hardwickii*.
- dispel wind and disperse macula** T0583 *Archangelica decurrens*.
- dispel wind and dissipate cold** T0098 *Aconitum geniculatum*, T0138 *Aconitum umbrosum*, T0440 *Anagallis arvensis*, T0676 *Artemisia dracunculus*, T0724 *Asarum caulescens*, T0726 *Asarum forbesii*, T0727 *Asarum fukienense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0729 *Asarum maximum*, T0730 *Asarum sagittarioides*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0926 *Berneuxia thibetica*, T1046 *Buddleja davidii*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1435 *Cinnamomum camphora*, T1440 *Cinnamomum glanduliferum*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T2636 *Euscaphis japonica*, T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T3118 *Hedychium coronarium*, T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*, T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*], T4000 *Lysimachia congestiflora*, T4039 *Magnolia grandiflora*, T4763 *Peucedanum morisonii*, T4938 *Piper boehmeriaefolium*, T4965 *Piper sarmentosum*, T5639 *Sabina chinensis*, T6106 *Stelmatocrypton khasianum*, T6422 *Thelephora vialis*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*, T6877 *Zanthoxylum dissitum*, T6895 *Zanthoxylum simulans*.
- dispel wind and dissipate cold and eliminate damp** T4962 *Piper puberulum*.
- dispel wind and dissipate heat** T2434 *Eriocaulon buergerianum*.
- dispel wind and dissipate stasis** T4444 *Nothopanax davidii*, T6100 *Stauntonia hexaphylla*.
- dispel wind and downbear fire** T3432 *Inula helianthus-aquatica*.
- dispel wind and dry damp** T3300 *Hydnocarpus anthelminticus*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T4917 *Pinus massoniana*,

T5517 *Rhododendron molle*, T6073 *Sphallerocarpus gracilis*.

dispel wind and effuse exterior T0491 *Angelica polymorpha*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*].

dispel wind and effuse sweat T3222 *Heracleum scabridum*.

dispel wind and eliminate damp T0069 *Achillea wilsoniana*, T0077 *Aconitum balfourii*, T0079 *Aconitum brachypodium*, T0084 *Aconitum carmichaeli*, **T0100** *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0105 *Aconitum karakolicum*, T0106 *Aconitum kirinense*, T0107 *Aconitum kongboense*, T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*], T0117 *Aconitum nagarum* var. *lasiandrum*, T0122 *Aconitum pendulum*, T0130 *Aconitum sinomontanum*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T0364 *Alsophila spinulosa*, T0383 *Alyxia sinensis*, T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*], T0476 *Angelica anomala*, T0479 *Angelica dahurica* cv. *qibaizhi*, T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T0498 *Angelica taiwaniana*, T0500 *Anguilla japonica*, T0539 *Apis cerana*, T0568 *Aralia chinensis*, T0569 *Aralia cordata*, T0570 *Aralia dasyphylla*, T0571 *Aralia decaisneana*, T0574 *Aralia fargesii*, T0582 *Archangelica brevicaulis* [Syn. *Angelicarpa brevicaulis*; *Angelica brevicaulis*], T0634 *Aristolochia mollissima*, T0847 *Baccharis indica* [Syn. *Pluchea indica*], T0877 *Bauhinia championii*, T0886 *Beaumontia grandiflora*, T0922 *Berchemia polyphylla* var. *leioclada*, T0938 *Bidens bipinnata*, T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*], T0957 *Blumea balsamifera*, T0978 *Bombyx mori*, T1023 *Bredia tuberculata*, T1031 *Broussonetia kazinoki*, T1285 *Celastrus angulatus*, T1286 *Celastrus flagellaris*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1361 *Chenopodium ambrosioides*, T1371 *Chloranthus japonicus*, T1436 *Cinnamomum camphora*, T1545 *Clematis chinensis*, T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1556 *Clerodendron fragrans*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1641 *Conioselinum vaginatum*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1721 *Corydalis linearioides*, T1815 *Crotalaria assamica*, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1943 *Cymbopogon goeringii*, T1976 *Cyperus iria*, T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2233 *Diploclostia glaucescens*, T2262 *Dregea sinensis*, T2391 *Epimedium brevicornum*, T2422 *Erigeron breviscapus*, T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2541 *Euonymus grandiflorus*, T2631 *Eurya japonica*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T2749 *Fomes officinalis*, T2750 *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*], T2895 *Gaultheria*

yunnanensis, T2946 *Geranium robertianum*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3201 *Hemiphragma heterophyllum*, T3214 *Heracleum lanatum*, T3221 *Heracleum rapula*, T3234 *Heteropogon contortus*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3371 *Hypocrella bambusae*, T3395 *Ilex pedunculosa*, T3400 *Illicium difengpi*, T3401 *Illicium henryi*, T3403 *Illicium majus*, T3413 *Impatiens nolintangere*, T3414 *Impatiens sculifer*, T3417 *Imperata cylindrica* var. *major*, T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3746 *Leontice robustum*, T3776 *Lethariella zahlbruckneri*, T3796 *Libanotis buchtormensis*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T3849 *Lindera chunii*, T3852 *Lindera megaphylla*, T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T3871 *Liriodendron tulipifera*, T3965 *Lycopodium annotinum*, T3969 *Lycopodium casuarinoides*, T3970 *Lycopodium cernuum*, T3971 *Lycopodium complanatum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T3976 *Lycopodium obscurum*, T3997 *Lysimachia capillipes*, T4004 *Lysimachia paridiformis*, T4005 *Lysionotus pauciflorus*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4260 *Moghania philippinensis*, T4267 *Monachosorum flagellare*, T4268 *Monachosorum henryi*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4347 *Myrica nagi* [Syn. *Podocarpus nagi*], T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4453 *Nyctanthes arbor-tristis*, T4503 *Onychium lucidum*, T4577 *Paederia scandens*, T4663 *Passiflora caerulea*, T4690 *Pelargonium graveolens*, T4704 *Peperomia duclouxii*, T4725 *Periploca calophylla*, T4726 *Periploca forrestii*, T4778 *Phallus impudicus*, T4801 *Phlegmarius phlegmaria* [Syn. *Lycopodium phlegmaria*], T4810 *Phlomis mongolica*, T4838 *Phyllanthus flexuosus*, T4948 *Piper hancei*, T4975 *Piptanthus nanus*, T5021 *Pleurospermum rivulorum*, T5029 *Plumbago zeylanica*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5110 *Polygonum orientale*, T5143 *Pongamia pinnata*, T5156 *Populus nigra* var. *thevestina*, T5193 *Pratia nummularia*, T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*], T5269 *Psilotum nudum*, T5279 *Psychotria serpens*, T5298 *Pteris vittata*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5391 *Rabdosia eriocalyx*, T5516 *Rhododendron molle*, T5555 *Rodgersia pinnata*, T5569 *Rosa multiflora*, T5591 *Rubus cochinchinensis*, T5609 *Rumex hastatus*, T5640 *Sabina vulgaris*, T5726 *Saponaria officinalis*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5746 *Sassafras tzumu*, T5756 *Saussurea japonica*, T5793 *Schisandra henryi*, T5799 *Schisandra rubriflora*, T5847 *Securidaca inappendiculata*, T5861 *Selaginella doederleinii*, T5975 *Smilax bockii*, T6069 *Speranskia tuberculata*, T6439 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6477 *Torreya grandis*, T6540 *Tripterygium hypoglaucum*, T6541 *Tripterygium regelii*, T6542 *Tripterygium wilfordii*, T6566 *Tupistra chinensis*, T6727 *Veronica persica*, T6731 *Veronicastrum sibiricum*, T6737 *Viburnum luzonicum*, T6738 *Viburnum odoratissimum*, T6742 *Vicia amoena*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*, T6787 *Vitex negundo*, T6799 *Vitis vinifera*, T6845 *Xanthoceras sorbifolia*, T6861 *Zanthoxylum ailanthoides*, T6862 *Zanthoxylum ailanthoides*, T6893 *Zanthoxylum simulans*, T6894

Zanthoxylum simulans.

dispel wind and eliminate evil T6000 *Solanum indicum*.

dispel wind and eliminate impediment T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0156 *Actinidia arguta*, T5872 *Selenarctos tibetanus*; *Ursus arctos*.

dispel wind and free impediment T2208 *Dioscorea septemloba*.

dispel wind and free network vessels T0644 *Armillaria mellea*, T1567 *Clerodendrum mandarinorum*, T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*], T1884 *Cudrania cochinchinensis*, T1939 *Cymbopogon citratus*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2738 *Flemingia strobilifera*, T2890 *Gastrodia elata*, T3316 *Hylomecon japonica*, T3363 *Hypericum sampsonii*, T3797 *Libanotis condensata*, T3897 *Litsea verticillata*, T4800 *Phlegmariurus fordii*, T5101 *Polygonum cuspidatum*, T5108 *Polygonum multiflorum*, T5515 *Rhododendron micranthum*, T5964 *Sinomenium acutum*, T6484 *Trachelospermum jasminoides*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6884 *Zanthoxylum nitidum*.

dispel wind and kill worms T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T5028 *Plumbago indica*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*].

dispel wind and move qi T3886 *Litsea euosma*.

dispel wind and move water T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T6127 *Stephania glabra*.

dispel wind and open orifices T2275 *Dryobalanops aromatica*.

dispel wind and outthrust papules T3742 *Lentinus edodes*.

dispel wind and overcome damp T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*], T0086 *Aconitum chasmanthum*, T0108 *Aconitum kusnezoffii*, T0123 *Aconitum polyschistum*, T0135 *Aconitum sungpanense*, T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T5755 *Saussurea involucrata*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5972 *Skimmia reevesiana*.

dispel wind and percolate damp T4253 *Mirabilis jalapa*.

dispel wind and quicken blood T0572 *Aralia elata*, T1191 *Caragana sinica*, T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*], T1767 *Craibiodendron yunnanense*, T3411 *Impatiens balsamina*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5637 *Sabia schumanniana*, T5848 *Securinega suffruticosa*, T6713 *Vernonia anthelmintica*, T6888 *Zanthoxylum planispinum*.

dispel wind and quicken network vessels T0645 *Armillariella mellea*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T3285 *Hovenia dulcis*, T3643 *Kopsia officinalis*, T4219 *Microlepis marginata*, T5368 *Python molurus bivittatus*, T6099 *Stauntonia chinensis*, T6131 *Stephania longa*, T6183 *Strychnos nitida*.

dispel wind and relieve cough T2056 *Debregeasia longifolia*, T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbiferum*].

dispel wind and relieve itch T0963 *Boehmeria siamensis*, T1160 *Campsis grandiflora*, T1730 *Corydalis ophiocarpa*, T1936 *Cyclocarya paliurus*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T3687 *Lantana camara*, T4231 *Milingtonia hortensis*, T4247 *Millingtonia hortensis*, T5104 *Polygonum hydropiper*, T6325 *Tectona grandis*.

dispel wind and relieve pain T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T0094 *Aconitum finetianum*, T0628 *Aristolochia fangchi*, T0629 *Aristolochia heterophylla*, T0635 *Aristolochia moupinensis*, T1291 *Celastrus paniculatus*, T1372 *Chloranthus serratus*, T1552 *Cleome viscosa*, T1563 *Clerodendron trichotomum*, T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1586 *Cocculus laurifolius*, T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T2053 *Davallia mariesii*, T2267 *Drosera peltata* var. *lunata*, T2412 *Equisetum sylvaticum*, T2447 *Erycibe elliptilimba*, T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3080 *Gymnema sylvestris*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3851 *Lindera glauca*, T4361 *Myrsine africana*, T5144 *Populus adenopoda*, T5308 *Pterocarya stenoptera*, T5781 *Schefflera arboricola*, T5785 *Schefflera venulosa*, T5969 *Sium latifolium*, T6084 *Spiraea prunifolia*, T6086 *Spiraea thunbergii*, T6118 *Stephania brachyandra*, T6119 *Stephania cepharantha*, T6125 *Stephania elegans*, T6129 *Stephania japonica*, T6136 *Stephania tetrandra*, T6250 *Symplocos caudata*, T6468 *Tinospora sinensis*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*].

dispel wind and remove damp T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*].

dispel wind and resolve exterior T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T3006 *Glycosmis citrifolia*, T4154 *Melaleuca leucadendra*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6789 *Vitex negundo*.

dispel wind and resolve summerheat T6367 *Teucrium quadrifarium*.

dispel wind and resolve tetany T0975 *Bombyx mori*, T5547 *Ricinus communis*.

dispel wind and resolve toxin T2617 *Euphorbia royleana*, T2981 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3000 *Glycine max*, T3001 *Glycine max*, T3991 *Lyonia ovalifolia*, T6005 *Solanum lyratum*.

dispel wind and settle fright T1332 *Cercidiphyllum japonicum*, T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*].

dispel wind and soothe liver T6531 *Trillium camtschaticum*.

dispel wind and transform damp T1959 *Cynanchum paniculatum*, T6866 *Zanthoxylum avicennae*.

dispel wind and transform phlegm T0088 *Aconitum coreanum*, T4814 *Phlomis umbrosa*, T6580 *Tylophora floribunda*, T6588 *Typhonium giganteum*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*.

dispel wind quicken blood T1373 *Chloranthus serratus*.

dispel wind-damp T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0090 *Aconitum delavayi*, T0096 *Aconitum forrestii* [Syn. *Aconitum likiangense*], T0099 *Aconitum gymnantrum*, T0125 *Aconitum pseudostapfianum*, T0154 *Acroptilon repens*, T0164 *Actinidia polygama*, T0240 *Aglaia odorata*, T0467 *Anemone flaccida*, T0470 *Anemone raddeana*, T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T1327 *Ceratostigma minus*, T1343

Chaenomeles sinensis, T1374 *Chloranthus spicatus*, T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T1557 *Clerodendron indicum*, T1562 *Clerodendron trichotomum*, T1565 *Clerodendrum bungei*, T1812 *Crossostephium chinense*, T1922 *Cyanotis vaga*, T1923 *Cyathula capitata*, T1958 *Cynanchum otophyllum*, T2077 *Delphinium grandiflorum*, T2091 *Delphinium yunnanense*, T2197 *Dioscorea futschauensis*, T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], T2210 *Dioscorea spongiosa*, T2211 *Dioscorea tenuipes*, T2212 *Dioscorea tokoro*, T2231 *Diphylllea grayi*, T2232 *Diphylllea sinensis*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2438 *Erodium stephanianum*, T2479 *Erythrina variegata* var. *orientalis*, T2542 *Euonymus japonicus*, T2721 *Ficus microcarpa*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2736 *Fissistigma polyanthum*, T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T3199 *Hemibarbus labeo*, T3390 *Ilex cornuta*, T3410 *Impatiens balsamina*, T3420 *Incarvillea sinensis*, T3436 *Inula nervosa*, T3726 *Laurus nobilis*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4210 *Michelia champaca*, T4279 *Morinda chinensis*, T4286 *Morinda umbellata*, T4290 *Morus alba*, T4575 *Pachysandra terminalis*, T4687 *Peganum harmala*, T4688 *Peganum harmala*, T4710 *Pericampylus glaucus*, T4729 *Periploca sepium*, T4828 *Photinia serrulata*, T4950 *Piper kadsura* [Syn. *Piper futokadsura*], T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5102 *Polygonum cuspidatum*, T5189 *Pothos chinensis*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5523 *Rhododendron simsii*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5981 *Smilax riparia*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*], T6128 *Stephania hernandifolia*, T6304 *Taxillus levinei*, T6437 *Thlaspi arvense*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6771 *Viscum album*, T6772 *Viscum angulatum*, T6775 *Viscum coloratum*, T6777 *Viscum multinerve*, T6831 *Woodwardia orientalis*, T6883 *Zanthoxylum myriacanthum*.

dispel wind-heat T0584 *Arctium lappa*, T1296 *Celosia argentea*, T2325 *Eichhornia crassipes*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

dispel wind-phlegm T0599 *Ardisia japonica*.

disperse accumulation T0606 *Areca catechu*, T1381 *Choerospondias axillaris*, T1831 *Crotalaria sessiliflora*, T2049 *Daucus carota*, T2422

Erigeron breviscapus, T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*], T3412 *Impatiens balsamina*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5189 *Pothos chinensis*, T5229 *Prunus persica*, T5239 *Prunus salicina*, T5719 *Sapindus mukorossi*, T5720 *Sapindus mukorossi*, T5993 *Solanum capsicastrum*, T6062 *Sparganium stoloniferum*, T6312 *Taxus mairei*.

disperse accumulation and disinherit damp T6277 *Tadehagi triquetrum*.

disperse accumulation and disinherit water T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*.

disperse accumulation and expel stone T4000 *Lysimachia congestiflora*.

disperse accumulation and fortify stomach T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T1954 *Cynanchum chinense*.

disperse accumulation and free stool T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T6651 *Urtica cannabina*, T6652 *Urtica dioica*.

disperse accumulation and gan T2502 *Eucalyptus camaldulensis*.

disperse accumulation and kill worms T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T4240 *Millettia pachycarpa*, T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*.

disperse accumulation and move water T3468 *Iris sanguinea*.

disperse accumulation and relieve pain T3436 *Inula nervosa*, T6049 *Sophora viciifolia*.

disperse accumulation and resolve toxin T6551 *Trogopterus xanthipes*; *Pteromys volans*.

disperse accumulation and transform phlegm T2720 *Ficus hispida*.

disperse accumulation and transform stagnation T5469 *Rheum hotaense*.

disperse concretion and conglomeration T0164 *Actinidia polygama*.

disperse concretion and transform stone T2838 *Gallus gallus domesticus*.

disperse damp T3306 *Hydrangea paniculata*.

disperse distention T1508 *Citrus sinensis*, T4264 *Momordica cochinchinensis*.

disperse edema T0157 *Actinidia callosa* var. *henryi*.

disperse edema and abate jaundice T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*].

disperse food T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1478 *Citrus grandis*, T1483 *Citrus grandis* var. *tomentosa*, T1488 *Citrus junos*, T1937 *Cydonia oblonga*, T2115 *Dermatocarpon minutum*, T2994 *Gloiopeltis furcata*, T3308 *Hydrangea umbellata*, T3620 *Kaempferia galanga*, T4544 *Oryza sativa*, T5113 *Polygonum persicaria*, T5361 *Pyrus betulaefolia*, T5419 *Raphanus sativus*, T5570 *Rosa roxburghii*.

disperse food and assisting movement T6878 *Zanthoxylum echinocarpum*.

disperse food and check diarrhea T2421 *Erigeron annuus*.

disperse food and harmonize center T0647 *Armoracia lapathifolia*.

disperse food and precipitate qi T1021 *Brassica rapa*.

disperse food and promote lactation T1205 *Carica papaya*.

disperse food and rectify qi T2387 *Epilobium hirsutum*.

disperse food and relieve pain T0354 *Alpinia chinensis*.

disperse food and transform accumulation T0661 *Artemisia anomala*, T3282 *Hordeum vulgare*, T4577 *Paederia scandens*, T5365 *Pyrus pashia*.

disperse food and transform phlegm T2758 *Fortunella crassifolia*, T2759

- Fortunella japonica*, T2760 *Fortunella margarita*, T4820 *Phoenix dactylifera*.
- disperse food and transform stagnation** T5461 *Rhamnus leptophylla*.
- disperse food distention** T5420 *Raphanus sativus*.
- disperse gan** T0387 *Amaranthus caudatus*, T0969 *Boerhavia diffusa*, T1591 *Cocos nucifera*, T1593 *Cocos nucifera*.
- disperse glomus** T0988 *Bos taurus domesticus*; *Bubalus bubalis*.
- disperse glomus and dissipate binds** T4904 *Pinellia ternata*.
- disperse phlegm** T0892 *Belamcanda chinensis*, T1960 *Cynanchum stauntonii*, T3426 *Inula britannica*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3433 *Inula japonica*, T3434 *Inula linariaefolia*, T4957 *Piper nigrum*, T5740 *Sargassum vachellianum*.
- disperse phlegm and allay thirst** T1343 *Chaenomeles sinensis*.
- disperse phlegm and disinhibit water** T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*].
- disperse phlegm and move water** T0726 *Asarum forbesii*.
- disperse phlegm and relieve cough** T3953 *Lycianthes biflora*.
- disperse phlegm and transform accumulation** T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T5141 *Poncirus trifoliata*.
- disperse phlegm rheum** T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*.
- disperse qi** T2048 *Daucus carota*.
- disperse sore toxin** T0503 *Anisomeles indica* [Syn. *Epimeredi indica*].
- disperse stagnation and disinhibit damp** T1544 *Cleistocalyx operculatus*.
- disperse stagnation and harmonize center** T0932 *Betula luminifera*.
- disperse stasis** T3277 *Homo sapiens*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*].
- disperse stasis and relieve pain** T1931 *Cyclea barbata*, T6020 *Solanum xanthocarpum*.
- disperse stasis and settle pain** T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*].
- disperse swelling** T0471 *Anemone rivularis*, T0529 *Anthriscus sylvestris*, T0894 *Benincasa hispida*, T1181 *Capra hircus*; *Ovis aries*, T1558 *Clerodendron inerme*, T2048 *Daucus carota*, T2200 *Dioscorea hispida*, T2546 *Euonymus sacrosancta*, T2585 *Euphorbia esula*, T2830 *Galium aparine*, T2857 *Garcinia hanburyi*, T2885 *Gardenia jasminoides* var. *grandiflora*, T3155 *Helianthus tuberosus*, T3570 *Juglans regia*, T3668 *Lagenaria siceraria* var. *depressa*, T3674 *Laggetera alata*, T4029 *Maesa japonica*, T4785 *Phaseolus vulgaris*, T4814 *Phlomis umbrosa*, T4848 *Physalis angulata*, T4951 *Piper laetispicum*, T4965 *Piper sarmentosum*, T5099 *Polygonum bistorta*, T5214 *Prunella vulgaris*, T5247 *Przewalskia tangutica*, T5563 *Rosa cymosa*, T5626 *Ruta graveolens*, T5651 *Salix babylonica*, T5857 *Sedum sarmentosum*, T6177 *Strychnos ignatii*, T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*], T6548 *Tritonia crocosmaeflora*, T6435 *Thladiantha cordifolia*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6772 *Viscum angulatum*.
- disperse swelling and close sores** T5712 *Sanguisorba officinalis*.
- disperse swelling and dispel damp** T4985 *Pithecolobium dulce*.
- disperse swelling and dissipate binds** T1007 *Brassica juncea*, T1787 *Cremastra appendiculata*.
- disperse swelling and draw out toxin** T5550 *Ricinus communis*.
- disperse swelling and engender flesh** T0955 *Bletilla striata*, T0994 *Boswellia carterii*, T1638 *Commiphora myrrha* [Syn. *Commiphora molmol*].
- disperse swelling and expel pus** T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T3241 *Hibiscus mutabilis*, T3547 *Ixeris chinensis*, T6512 *Trichosanthes kirilowii*.
- disperse swelling and free network vessels** T6866 *Zanthoxylum avicennae*.
- disperse swelling and outthrust pus** T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- disperse swelling and relieve pain** T0108 *Aconitum kusnezoffii*, T0122 *Aconitum pendulum*, T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0267 *Ajuga nipponensis*, T0293 *Albizia lebbek*, T0302 *Alhagi pseudalhagi*, T0476 *Angelica anomala*, T0643 *Aristolochia versicolor*, T0736 *Asclepias curassavica*, T0827 *Aucuba chinensis* ssp. *omeiensis*, T1108 *Caesalpinia sappan*, T1644 *Conocephalum conicum*, T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T1731 *Corydalis pallida*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T2444 *Ervatamia heyneana*, T2445 *Ervatamia officinalis*, T2449 *Erycibe obtusifolia*, T2450 *Erycibe schmidtii*, T2631 *Eurya japonica*, T2718 *Ficus carica*, T2749 *Fomes officinalis*, T2752 *Fordia cauliflora*, T2884 *Gardenia jasminoides* var. *grandiflora*, T2897 *Gelsemium elegans*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3187 *Helleborus thibetanus*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Panocratium littoralis*], T3411 *Impatiens balsamina*, T3461 *Iris japonica*, T3471 *Iris tectorum*, T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3796 *Libanotis buchtormensis*, T3852 *Lindera megaphylla*, T3880 *Lithospermum arvense*, T3887 *Litsea glutinosa*, T4018 *Machilus thunbergii*, T4182 *Menispermum dauricum*, T4183 *Menispermum dauricum*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4391 *Nauclea officinalis*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4800 *Phlegmariurus fordii*, T4852 *Physalis peruviana*, T4884 *Picria felterrae*, T5028 *Plumbago indica*, T5279 *Psychotria serpens*, T5393 *Rabdosia longituba*, T5513 *Rhododendron mariae*, T5592 *Rubus hirsutus*, T5650 *Salix babylonica*, T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*], T5794 *Schisandra lancifolia*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T6007 *Solanum melongena*, T6051 *Sorbaria arborea*, T6052 *Sorbaria sorbifolia*, T6075 *Spilanthes acemella*, T6166 *Strychnos angustiflora*, T6353 *Tetracera asiatica*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6542 *Tripterygium wilfordii*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*], T6792 *Vitex trifolia*, T6845 *Xanthoceras sorbifolia*, T6884 *Zanthoxylum nitidum*.
- eliminate inflammation and disperse swelling** T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*].
- disperse swelling and resolve toxin** T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium*

- potanii* var. *jiufengshanense*, T2243 *Dodonaea viscosa*, T2866 *Garcinia morella*, T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*].
- disperse swelling and settle pain** T1589 *Cocculus trilobus* [Syn. *Cocculus sarmmentosus*], T4604 *Panax japonicus* var. *bipinnatifidus*, T4606 *Panax pseudo-ginseng*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*].
- disperse swelling and stanch bleeding** T3995 *Lysidice rhodostegia*, T4568 *Oxytropis myriophylla*, T5444 *Reboulia hemisphaerica*.
- disperse swelling and transform stasis** T3936 *Luffa operculata*.
- disperse swelling toxin** T0584 *Arctium lappa*, T2197 *Dioscorea futschauensis*, T2210 *Dioscorea spongiosa*, T4687 *Peganum harmala*, T6018 *Solanum verbascifolium*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*].
- disperse swollen welling abscess** T0470 *Anemone raddeana*, T0516 *Anser cygnoides domestica*, T1685 *Coreopsis lanceolata*, T1709 *Corydalis bungeana*, T4279 *Morina chinensis*, T5230 *Prunus persica*.
- disperse welling abscess** T4106 *Manis pentadactyla*, T6499 *Tribulus terrestris*.
- disperse welling abscess and dissipate binds** T0750 *Asparagus gobicus*.
- disperse welling abscess and expel pus** T0895 *Benincasa hispida*, T5250 *Psammosilene tunicoides*.
- disperse welling abscess and promote lactation** T0173 *Adiantum lunulatum*.
- dissipate binds** T2024 *Daphne genkwa*, T2599 *Euphorbia lunulata*, T2757 *Forsythia viridissima*, T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria walujewii*, T3287 *Huechys sanguinea*, T3668 *Lagenaria siceraria* var. *depressa*, T3815 *Ligularia stenocephala*, T5214 *Prunella vulgaris*.
- dissipate binds and disperse concretion** T1162 *Camptotheca acuminata*.
- dissipate binds and disperse goiter** T2191 *Dioscorea bulbifera*.
- dissipate binds and disperse swelling** T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1092 *Buxus microphylla* var. *sinica*, T2608 *Euphorbia pekinensis*, T2636 *Euscaphis japonica*, T2691 *Farfugium japonicum*, T2756 *Forsythia suspensa*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T4265 *Momordica cochinchinensis*, T5139 *Poncirus trifoliata*, T5415 *Ranunculus sceleratus*, T5723 *Sapium sebiferum*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*], T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6257 *Syngnathus acus*, T6301 *Taraxacum mongolicum*, T6521 *Trifolium pratense*, T6560 *Tulipa edulis*.
- dissipate binds and draw out toxin** T0971 *Bolbostemma paniculatum*.
- dissipate binds and relieve pain** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T1017 *Brassica oleracea* var. *capitata*, T2632 *Euryale ferox*, T3443 *Iphigenia indica*.
- dissipate blood** T4254 *Miscanthus sinensis*.
- dissipate blood and disperse swelling** T6006 *Solanum melongena*.
- dissipate blood and eliminate accumulation** T6732 *Vespertilio superans*.
- dissipate blood and relieve pain** T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*].
- dissipate cold** T0356 *Alpinia galanga*, T0359 *Alpinia officinarum*, T0472 *Anethum graveolens*, T1180 *Capparis spinosa*, T3120 *Hedychium spicatum*, T3869 *Liquor*, T6864 *Zanthoxylum armatum*, T6887 *Zanthoxylum planispinum*.
- dissipate cold and dry damp** T0363 *Alpinia speciosa*, T2051 *Daucus carota* var. *sativa*, T3222 *Heracleum scabridum*.
- dissipate cold and effuse exterior** T4551 *Osmorhiza aristata* var. *laxa*.
- dissipate cold and interrupt malaria** T3124 *Hedyotis capitellata*.
- dissipate cold and relieve cough** T3871 *Liriodendron tulipifera*.
- dissipate cold and relieve pain** T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0088 *Aconitum coreanum*, T0105 *Aconitum karakolicum*, T0106 *Aconitum kirinense*, T0123 *Aconitum polyschistum*, T0135 *Aconitum sungpanense*, T0470 *Anemone raddeana*, T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T1217 *Carum carvi*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1641 *Conioselinum vaginatum*, T1889 *Cuminum cyminum*, T2895 *Gaultheria yunnanensis*, T3214 *Heracleum lanatum*, T4550 *Osmanthus fragrans*, T4954 *Piper longum*, T6488 *Trachyspermum ammi*, T6876 *Zanthoxylum dissitum*, T6888 *Zanthoxylum planispinum*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.
- dissipate cold and resolve exterior** T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2422 *Erigeron breviscapus*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T6910 *Zingiber officinale*.
- dissipate depression and open binds** T1808 *Crocus sativus*.
- dissipate exopathogen** T2340 *Elsholtzia bodinieri*.
- dissipate heat** T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- dissipate heat and relieve pain** T2274 *Dryobalanops aromatica*.
- dissipate lung qi** T2761 *Fortunella margarita*.
- dissipate screen and disperse swelling** T1981 *Cyprinus carpio*.
- dissipate stasis** T0322 *Allium tuberosum*, T0324 *Allium victorialis*, T0567 *Aralia armata*, T0950 *Blatta orientalis*, T1097 *Cacalia ainsliaeflora*, T1161 *Campsis grandiflora*, T1174 *Cannabis sativa*, T2612 *Euphorbia prolifera*, T2830 *Galium aparine*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3674 *Laggeta alata*, T4020 *Macleaya cordata*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5087 *Polygala telephioides*, T5090 *Polygala wattersii*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5518 *Rhododendron mucronatum*, T5563 *Rosa cymosa*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T5883 *Senecio cannabifolius*, T6872 *Zanthoxylum cuspidatum*.
- dissipate stasis and disperse swelling** T0135 *Aconitum sungpanense*, T0240 *Aglaia odorata*, T0468 *Anemone hupehensis*, T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T1031 *Broussonetia kazinoki*, T1120 *Callicarpa macrophylla*, T1145 *Camellia japonica*, T1147 *Camellia oleifera*, T1441 *Cinnamomum japonicum*, T1552 *Cleome viscosa*, T1624 *Colocasia antiquorum*, T1657

Conyza canadensis [Syn. *Erigeron canadensis*], T1684 *Cordyline stricta*, T2290 *Duchesnea indica*, T2357 *Emilia sonchifolia*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T3006 *Glycosmis citrifolia*, T3089 *Gypsophila acutifolia*, T3316 *Hylomecon japonica*, T3356 *Hypericum japonicum*, T3387 *Ilesia polycarpa*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3560 *Jatropha curcas*, T3845 *Linaria vulgaris*, T3998 *Lysimachia christinae*, T4223 *Micromelum integerrimum*, T4384 *Narcissus tazetta* var. *chinensis*, T4686 *Pedilanthus tithymaloides*, T4730 *Peristrophe roxburghiana*, T4821 *Pholidota articulata*, T5397 *Rabdosia serra*, T5402 *Radermachera sinica*, T5499 *Rhodiola sacra*, T5724 *Sapium sebiferum*, T5884 *Senecio chrysanthemoides*, T6035 *Sophora japonica*.

dissipate stasis and quicken blood T3809 *Ligularia lapathifolia*.

dissipate stasis and relieve pain T0010 *Abrus fruticosus* [Syn. *Abrus cantoniensis*], T0048 *Acanthus ilicifolius*, T0069 *Achillea wilsoniana*, T0264 *Ajuga forrestii*, T0266 *Ajuga macrosperma*, T0281 *Alangium chinense*, T0282 *Alangium kurzii*, T0285 *Alangium platanifolium*, T0602 *Ardisia quinquegona*, T0721 *Arundina chinensis*, T1215 *Carthamus tinctorius*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1574 *Clintonia alpina*, T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*], T1866 *Cryptolepis sinensis*, T1933 *Cyclea sutchuenensis*, T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2124 *Derris trifoliata*, T2139 *Dianella ensifolia*, T2545 *Euonymus phellomana*, T3221 *Heracleum rapula*, T3349 *Hypericum erectum*, T3520 *Isodon rosthornii*, T3549 *Ixora chinensis*, T3849 *Lindera chunii*, T3897 *Litsea verticillata*, T4221 *Micromelum falcatum*, T4284 *Morinda parvifolia*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4642 *Parameria laevigata*, T4705 *Peperomia pellucida*, T4823 *Pholidota yunnanensis*, T4956 *Piper mullesua*, T5517 *Rhododendron molle*, T5595 *Rubus parviflorus*, T5756 *Saussurea japonica*, T5847 *Securidaca inappendiculata*, T5868 *Selaginella stauntoniana*, T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*, T6015 *Solanum torvum*, T6121 *Stephania dicentrifera*, T6122 *Stephania dielsiana*, T6133 *Stephania sinica*, T6137 *Stephania viridiflavens*, T6566 *Tupistra chinensis*.

dissipate stasis and resolve toxin T2296 *Duranta repens*, T3190 *Helminthostachys zeylanica*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T5189 *Pothos chinensis*.

dissipate stasis and settle pain T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*, T5250 *Psammosilene tunicoides*, T5516 *Rhododendron molle*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*.

dissipate stasis and stanch bleeding T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T3395 *Ilex pedunculosa*, T5501 *Rhodiola yunnanensis*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*].

dissipate stasis and strengthen sinews T5207 *Prismatomeris tetrandra*.

dissipate stasis blood T5722 *Sapium japonicum*.

dissipate toxin swelling T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*].

dissipate wind and brighten eyes T6497 *Tribulus terrestris*.

dissipate wind and clear heat T4773 *Peucedanum terebinthaceum*.

dissipate wind and eliminate damp T2505 *Eucalyptus citriodora*.

dissipate wind and relieve itch T4305 *Mosla dianthera*.

dissipate wind-cold T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T5822 *Scopolia sinensis*.

dissipate wind-heat T2408 *Equisetum hiemale*, T2721 *Ficus microcarpa*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3829 *Ligustrum robustum*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*].

downbear counterflow and check vomiting T1202 *Carex kobomugi*, T1261 *Catalpa ovata*, T2433 *Eriobotrya japonica*, T4904 *Pinellia ternata*, T6910 *Zingiber officinale*.

downbear counterflow and disperse food T4954 *Piper longum*.

downbear counterflow and precipitate qi T2217 *Diospyros kaki*.

downbear counterflow qi T4369 *Nandina domestica*.

downbear fire T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T1154 *Camellia sinensis* [Syn. *Thea sinensis*], T3277 *Homo sapiens*.

downbear fire and disinhibit throat T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*.

downbear fire and transform phlegm T5531 *Rhus chinensis* [Syn. *Rhus semialata*].

downbear qi T1960 *Cynanchum stauntonii*, T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T3426 *Inula britannica*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3433 *Inula japonica*, T3434 *Inula linariaefolia*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T6261 *Syringa pinnatifolia*.

downbear qi and disperse phlegm T4715 *Perilla frutescens*, T4773 *Peucedanum terebinthaceum*.

downbear qi and transform phlegm T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T3819 *Ligusticum brachylobum*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5420 *Raphanus sativus*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*].

drain fire T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0907 *Berberis kawakamii*, T4370 *Nandina domestica*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T6372 *Thalictrum acutifolium*, T6381 *Thalictrum faberi*, T6388 *Thalictrum fortunei*.

drain fire and relieve dysphoria T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*].

drain fire and resolve toxin T0334 *Aloe arborescens* var. *natalensis*, T0906 *Berberis julianae*, T0912 *Berberis poiratii*, T0916 *Berberis thunbergii*, T0920 *Berberis wilsonae*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisekala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T2902 *Gentiana algida*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza*

- yunnanensis*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6231 *Swertia pseudochinensis*, T6268 *Syzygium samarangense*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6378 *Thalictrum delavayi*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*.
- drain fire and stanch bleeding** T1655 *Conyza blinii*.
- drain heat** T5606 *Rumex acetosa*.
- drain heat and free intestines** T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- drain heat and free stool** T5605 *Rumex acetosa*.
- drain heat and free strangury** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*].
- drain heat and move stagnation** T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*.
- drain liver and brighten eyes** T3564 *Juglans mandshurica*.
- drain liver and settle fright** T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*.
- drain lung and calm asthma** T2125 *Descurainia sophia*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*, T4287 *Morus alba*.
- drain lung and disperse phlegm** T1813 *Crotalaria albida*.
- drain precipitation** T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2650 *Excoecaria agallocha*.
- drain precipitation and cold accumulation** T1858 *Croton tiglium*.
- drain precipitation and expel water** T5723 *Sapium sebiferum*, T5724 *Sapium sebiferum*, T6819 *Wikstroemia chamaedaphne*.
- drain precipitation and free stagnation** T5550 *Ricinus communis*.
- drain precipitation and free stool** T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*].
- drain precipitation and kill worms** T5457 *Rhamnus davurica*.
- drain water and expel rheum** T2023 *Daphne genkwa*, T2596 *Euphorbia kansui*, T2608 *Euphorbia pekinensis*, T3632 *Knoxia valerianoides*.
- drain water and free stool** T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*.
- drain water retension** T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*].
- draw out pus** T2036 *Datura innoxia*, T2041 *Datura metel*, T2046 *Datura stramonium*.
- draw out pus and relieve itch** T5548 *Ricinus communis*.
- draw out toxin** T1416 *Cicuta virosa*, T2293 *Dumortiera hirsuta*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2599 *Euphorbia lunulata*.
- draw out toxin and disperse swelling** T2139 *Dianella ensifolia*.
- draw out toxin and engender flesh** T0557 *Aquilegia ecalcarata*, T3887 *Litsea glutinosa*.
- draw out toxin and remove putrid** T2580 *Euphorbia antiquorum*.
- draw sore toxin** T1337 *Cervus nippon*; *Cervus elaphus*.
- draw toxin and close sores** T3129 *Hedysarum polybotrys*.
- draw toxin and expel pus** T3128 *Hedysarum multijugum*.
- dry damp** T0190 *Adonis sutchuenensis*, T0353 *Alpinia blepharocalyx*, T0446 *Anaphalis margaritacea*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T1582 *Cnidium monnieri*, T2627 *Euphoria longan* [Syn. *Dimocarpus longan*], T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3120 *Hedychium spicatum*, T4055 *Mahonia bealei*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4063 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T4072 *Mahonia shenii*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6402 *Thalictrum omeiense*, T6403 *Thalictrum petaloideum*, T6414 *Thalictrum thunbergii*, T6860 *Zanthoxylum ailanthoides*.
- dry damp and check discharge** T6683 *Vallisneria spiralis*.
- dry damp and disinhibit water** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*].
- dry damp and disperse phlegm** T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*.
- dry damp and fortify spleen** T5267 *Psidium guajava*.
- dry damp and kill worms** T1566 *Clerodendrum inerme*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*.
- dry damp and relieve itch** T3588 *Juniperus formosana*.
- dry damp and resolve itch** T0167 *Adenantha pavonina*, T3630 *Kleinhovia hospita*, T4937 *Piper betle*.
- dry damp and resolve toxin** T5234 *Prunus persica*, T6268 *Syzygium samarangense*, T6338 *Tephrosia purpurea*.
- dry damp and transform phlegm** T1483 *Citrus grandis* var. *tomentosa*, T1506 *Citrus reticulata*.
- effuse exterior** T0314 *Allium fistulosum*, T5963 *Sinodielsia yunnanensis*.
- effuse exterior and clear heat** T2627 *Euphoria longan* [Syn. *Dimocarpus longan*].
- effuse exterior and dispel summerheat** T4305 *Mosla dianthera*.
- effuse exterior and dissipate cold** T3796 *Libanotis buchtormensis*.
- effuse exterior and dissipate wind** T5389 *Rabdosia coetsa*.
- effuse exterior and outthrust papules** T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1425 *Cimicifuga simplex*.
- effuse exterior and relieve cough** T5000 *Plagiogyria stenoptera*.
- effuse exterior and resolve summerheat** T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].
- effuse sweat** T1315 *Cephaelis ipecacuanha*, T5452 *Reseda luteola*, T5575 *Rosmarinus officinalis*.
- effuse sweat and abate fever** T6457 *Tilia japonica*, T6458 *Tilia miqueliana*.
- effuse sweat and disinhibit water** T0610 *Argemone mexicana*.
- effuse sweat and eliminate summerheat** T2343 *Elsholtzia splendens*.
- effuse sweat and outthrust papules** T4456 *Nymphoides peltatum*.
- effuse sweat and remove damp** T5113 *Polygonum persicaria*.
- effuse sweat and resolve exterior** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*,

- T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T3118 *Hedychium coronarium*, T3738 *Lemma minor*, T5609 *Rumex hastatus*.
- effuse sweat and resolve summerheat** T2341 *Elsholtzia ciliata*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*].
- eliminate damp** T1180 *Capparis spinosa*, T1437 *Cinnamomum camphora*, T1558 *Clerodendron inerme*, T1876 *Cucumis melo*, T1941 *Cymbopogon distans*, T2263 *Dregea volubilis*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T3082 *Gynocardia odorata*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3594 *Juniperus rigida*, T3674 *Laggera alata*, T3847 *Lindera angustifolia*, T4349 *Myrica rubra*, T4368 *Nandina domestica*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5767 *Saussurea pulchella*, T5977 *Smilax glabra*, T5980 *Smilax menispermoides*, T6499 *Tribulus terrestris*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- eliminate damp and relieve pain** T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*].
- eliminate damp and resolve cold phlegm** T4904 *Pinellia ternata*.
- eliminate food stagnation** T5384 *Quisqualis indica*.
- eliminate gan fever** T4887 *Picrorhiza kurroo*, T4888 *Picrorhiza scrophulariiflora*, T6104 *Stellaria dichotoma* var. *lanceolata*.
- eliminate heat** T3003 *Glycine max*, T5938 *Setaria italica*, T6507 *Trichosanthes cucumeroides*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*].
- eliminate heat and dry damp** T0255 *Ailanthus altissima*, T6475 *Toona sinensis*.
- eliminate heat in blood** T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3954 *Lycium barbarum*, T3956 *Lycium chinense*.
- eliminate heat vexation** T1758 *Cotinus coggygria*.
- eliminate impediment** T6826 *Wisteria sinensis*.
- eliminate impediment and check diarrhea** T1614 *Coix lacryma-jobi* var. *ma-yuen*.
- eliminate inflammation** T0423 *Ampelopsis brevipedunculata*, T0646 *Armillariella tabescens*, T0964 *Boenninghausenia albiflora*, T1955 *Cynanchum hancockianum*, T2844 *Ganoderma applanatum*, T3106 *Harpagophytum procumbens*, T3289 *Humulus lupulus*, T3394 *Ilex paraguariensis*, T4503 *Onychium lucidum*, T6139 *Sterculia lychnophora*.
- eliminate inflammation and disinhibit urine** T1557 *Clerodendron indicum*.
- eliminate inflammation and disperse swelling** T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*].
- eliminate inflammation and engender flesh** T6920 *Ziziphus mauritiana*.
- eliminate inflammation and move water** T3432 *Inula helianthus-aquatica*.
- eliminate inflammation and relieve pain** T0543 *Apis mellifera ligustica*, T3643 *Kopsia officinalis*, T3960 *Lycogala epidendrum*, T4208 *Metasequoia glyptostroboides*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*].
- eliminate macula and resolve toxin** T2598 *Euphorbia lathyris*.
- eliminate phlegm and suppress cough** T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*].
- eliminate putridity** T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*.
- eliminate putridity and close sores** T2729 *Filipendula ulmaria*, T2857 *Garcinia hanburyi*.
- eliminate putridity and engender flesh** T4031 *Maesa perlaris*, T6080 *Spiraea japonica*.
- eliminate screen** T2408 *Equisetum hiemale*, T5414 *Ranunculus japonicus*.
- eliminate screen and brighten eyes** T1048 *Buddleja officinalis*, T2274 *Dryobalanops aromatica*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*.
- eliminate screens** T4471 *Ocimum basilicum*.
- eliminate steam** T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0705 *Artemisia vestita*.
- eliminate welling abscess** T6596 *Ulmus parvifolia*.
- eliminate vexation** T4088 *Malus pumila*, T4829 *Phragmites communis*, T5227 *Prunus mume*.
- eliminate vexation and allay thirst** T0155 *Actinidia arguta*, T0438 *Anacardium occidentale*, T0462 *Anemarrhena asphodeloides*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T3286 *Hovenia dulcis*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T4545 *Oryza sativa*, T4618 *Panicum miliaceum*, T6492 *Trapa bispinosa*.
- eliminate vexation and heat** T1006 *Brassica chinensis*.
- eliminate vexation and quiet spirit** T4121 *Marsilea quadrifolia*.
- eliminate wind-damp** T0298 *Alectoria vivens*, T4283 *Morinda officinalis*, T5638 *Sabia swinhoei*.
- engender blood and harmonize blood** T3615 *Kadsura interior*.
- engender flesh** T0542 *Apis cerana*, T1452 *Cissampelos pareira*, T1453 *Cissampelos pareira* var. *hirsute*, T2092 *Delphinus delphis*, T2293 *Dumortiera hirsuta*, T2420 *Ericerus pela*, T4478 *Octopus vulgaris*.
- engender flesh and close sores** T6716 *Vernonia esculenta*.
- engender flesh and cure sores** T1552 *Cleome viscosa*.
- engender flesh and kill worms** T3407 *Illicium simonsii*.
- engender flesh and relieve pain** T3089 *Gypsophila acutifolia*, T4917 *Pinus massoniana*.
- engender flesh and stanch bleeding** T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T4207 *Metaplexis japonica*, T4686 *Pedilanthus tithymaloides*, T5528 *Rhodomyrtus tomentosa*, T5554 *Rodgersia aesculifolia*, T6145 *Stichopus japonicus*.
- engender hairs** T1175 *Cannabis sativa*, T2981 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- engender liquid** T0535 *Antidesma bunius*, T0834 *Averrhoa carambola*, T1165 *Canarium album*, T1961 *Cynanchum thesioides*, T2221 *Diospyros kaki*, T4088 *Malus pumila*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4288 *Morus alba*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4979 *Pistacia chinensis*, T5228 *Prunus mume*, T5229 *Prunus persica*, T5239 *Prunus salicina*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T6266 *Syzygium cumini*, T6507 *Trichosanthes cucumeroides*, T6919 *Ziziphus jujuba* var. *spinosa*.
- engender liquid and allay thirst** T1006 *Brassica chinensis*, T1153 *Camellia sinensis* var. *assamica*, T1179 *Capparis masaikai*, T1471 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*,

- T1490 *Citrus limon*, T1494 *Citrus limonia*, T1516 *Citrus tankan*, T1518 *Citrus unshiu*, T2220 *Diospyros kaki*, T2569 *Eupatorium rebaudianum*, T3962 *Lycopersicon esculentum*, T4086 *Malus asiatica*, T4348 *Myrica rubra*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4602 *Panax ginseng* [Syn. *Panax schinseng*], T4731 *Persea americana* [Syn. *Persea gratissima*], T4786 *Phasianus colchicus*, T4834 *Phyllanthus emblica*, T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*, T5179 *Potentilla anserina*, T5186 *Potentilla reptans* var. *sericophylla*, T5218 *Prunus armeniaca*.
- engender liquid and boost blood** T3876 *Litchi chinensis*.
- engender liquid and boost lung** T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*.
- engender liquid and eliminate vexation** T0713 *Artocarpus heterophyllus*, T0722 *Arundo donax*.
- engender liquid and moisten dryness** T0989 *Bos taurus domesticus*; *Bubalus bubalis*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- engender liquid and quiet spirit** T4682 *Pedicularis muscicola*.
- enrich and invigorate** T0541 *Apis cerana*.
- enrich and nourish** T4785 *Phaseolus vulgaris*.
- enrich and nourish blood vessel** T1888 *Cudrania tricuspidata*.
- enrich and supplement** T0541 *Apis cerana*, T0924 *Bergenia purpurascens*, T3200 *Hemidesmus indicus*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*].
- enrich kidney** T3955 *Lycium barbarum*, T3958 *Lycium chinense*.
- enrich kidney and replenish essence** T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- enrich liver and nourish kidney** T1819 *Crotalaria ferruginea*.
- enrich yin and boost qi** T4821 *Pholidota articulata*.
- enrich yin and clear heat** T0155 *Actinidia arguta*, T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*, T5133 *Polytrichum commune*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- enrich yin and downbear fire** T3276 *Homo sapiens*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- enrich yin and moisten dryness** T0462 *Anemarrhena asphodeloides*, T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T0982 *Bos taurus domesticus*, T2840 *Gallus gallus domesticus*.
- enrich yin and nourish blood** T5107 *Polygonum multiflorum*.
- enrich yin and remove heat** T5186 *Potentilla reptans* var. *sericophylla*.
- enrich yin and supplement blood** T1189 *Caragana intermedia*.
- enrich yin and supplement kidney** T1035 *Broussonetia papyrifera*, T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T4681 *Pedicularis decora*.
- enrich yin and supplement vacuity** T4644 *Parasilurus asotus*.
- enrich yin and nourish blood** T4288 *Morus alba*.
- expel phlegm and precipitate qi** T1153 *Camellia sinensis* var. *assamica*.
- expel pus** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T2601 *Euphorbia milii*, T5011 *Platycodon grandiflorum*.
- expel pus and break stasis** T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*.
- expel pus and disinhibit urine** T3284 *Houttuynia cordata*.
- expel pus and draw out toxin** T4917 *Pinus massoniana*.
- expel pus and engender flesh** T1673 *Corchorus capsularis*.
- expel pus and relieve cough** T3233 *Heteropappus altaicus*.
- expel roundworm** T0659 *Artemisia absinthium*, T1122 *Caloglossa leprieurii*, T1176 *Cannabis sativa*, T2173 *Digenea simplex*, T4002 *Lysimachia foenum-graecum*, T4231 *Milingtonia hortensis*, T6312 *Taxus mairei*, T6864 *Zanthoxylum armatum*, T6887 *Zanthoxylum planispinum*.
- expel roundworms** T3342 *Hypericum bellum*.
- expel roundworms** T3380 *Hypis pectinata*.
- expel stasis and break accumulation** T2384 *Epicauta gorhami*.
- expel stasis and free menstruation** T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- expel stasis blood** T1923 *Cyathula capitata*.
- expel stone and disinhibit water** T1553 *Clerodendranthus spicatus*.
- expel tapeworm** T0251 *Agrimonia pilosa* var. *japonica*.
- expel water** T2024 *Daphne genkwa*, T2599 *Euphorbia lunulata*, T2601 *Euphorbia milii*.
- expel water and dispel phlegm** T6105 *Stellera chamaejasme*.
- expel water and disperse swelling** T1858 *Croton tiglium*, T2597 *Euphorbia lathyris*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*].
- expel wind** T1137 *Caltha palustris*, T2746 *Foeniculum vulgare*.
- expel wind and dissipate cold** T4956 *Piper mullesua*, T5987 *Sobinia chinensis*.
- expel wind and eliminate damp** T2449 *Erycibe obtusifolia*, T2450 *Erycibe schmidtii*, T2538 *Euonymus bungeanus*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T4873 *Picea koraiensis*, T5648 *Salacia prinooides* [Syn. *Salacia chinensis*], T5998 *Solanum dulcamara*, T6808 *Waltheria americana*.
- expel wind and quicken blood** T6264 *Syzygium buxifolium*.
- expel wind and relieve pain** T6003 *Solanum khasianum*.
- expel worms** T0264 *Ajuga forrestii*, T0446 *Anaphalis margaritacea*, T0511 *Annona reticulata*, T0606 *Areca catechu*, T0952 *Blechnum orientale*, T1101 *Caesalpinia decapetala*, T1382 *Chondria armata* [Syn. *Lophura armata*], T1595 *Codium fragile*, T1881 *Cucurbita moschata*, T1986 *Cyrtomium fortunei*, T2277 *Dryopteris austriaca*, T2279 *Dryopteris championii*, T2282 *Dryopteris filix-mas*, T2346 *Embelia oblongifolia*, T2410 *Equisetum pratense*, T2852 *Garcinia cowa*, T3466 *Iris potaninii*, T3688 *Lappula echinata*, T3935 *Luffa cylindrica*, T4163 *Melia toosendan*, T4364 *Myrsine semiserrata*, T5151 *Populus davidiana*, T5328 *Punica granatum*, T5329 *Punica granatum*, T5921 *Seriphidium finitum* [Syn. *Artemisia finita*], T6201 *Styrax obassia*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*.
- expel worms and relieve itch** T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*].
- expel worms and treat lichen** T4156 *Melia azedarach*, T4162 *Melia toosendan*.
- extinguish wind and check tetany** T2836 *Gallus gallus domesticus*, T2890

- Gastrodia elata*, T4710 *Pericampylus glaucus*, T5817 *Scolopendra subspinipes mutilans*, T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- extinguish wind and harmonize blood** T0483 *Angelica gigas*.
- extinguish wind and settle fright** T6424 *Thermopsis alpina*.
- fortify and move spleen** T5573 *Rosa sericea*.
- fortify spleen** T0353 *Alpinia blepharocalyx*, T0387 *Amaranthus caudatus*, T0535 *Antidesma bunioides*, T0541 *Apis cerana*, T1143 *Calystegia hederacea*, T2246 *Dolichos lablab*, T3950 *Lychnis fulgens*, T4178 *Melodinus hemsleyanus*, T5244 *Prunus tomentosa*, T5575 *Rosmarinus officinalis*, T6231 *Swertia pseudochinensis*.
- fortify spleen and assisting movement** T4436 *Nitraria tangutorum*.
- fortify spleen and boost kidney** T1188 *Caragana chamlagu*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T3000 *Glycine max*, T3077 *Gymnadenia conopsea*.
- fortify spleen and boost lung** T4450 *Nuphar pumilum*.
- fortify spleen and boost qi** T1202 *Carex kobomugi*, T6489 *Tragopogon porrifolius*.
- fortify spleen and boost stomach** T5067 *Polyalthia nemoralis*.
- fortify spleen and check diarrhea** T2188 *Dioscorea alata*, T4548 *Oryza sativa* var. *glutinosa*, T6056 *Sorghum vulgare*.
- fortify spleen and disinhibit damp** T1238 *Cassia mimosoides*, T3418 *Incarvillea arguta*, T3645 *Kummerowia striata*, T3770 *Lespedeza cuneata*, T3840 *Limnophila rugosa*, T3886 *Litsea euosma*, T6264 *Syzygium buxifolium*, T6754 *Vigna unguiculata*.
- fortify spleen and disinhibit water** T1035 *Broussonetia papyrifera*, T2998 *Glycine max*, T6744 *Vicia faba*.
- fortify spleen and disperse accumulation** T2658 *Fagopyrum esculentum*, T6229 *Swertia patens*, T6676 *Valeriana hardwickii*.
- fortify spleen and disperse food** T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T2189 *Dioscorea althaeoides*, T2838 *Gallus gallus domesticus*, T4194 *Menyanthes trifoliata*, T5341 *Pygmaepremna herbacea* [Syn. *Premna herbacea*], T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*].
- fortify spleen and eliminate damp** T0881 *Bauhinia variegata*, T2720 *Ficus hispida*.
- fortify spleen and harmonize center** T2050 *Daucus carota* var. *sativa*.
- fortify spleen and harmonize stomach** T1623 *Collybia albuminosa*, T1751 *Corylus heterophylla*, T1980 *Cyprinus carpio*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T3431 *Inula helenium*, T3437 *Inula racemosa*.
- fortify spleen and nourish stomach** T0559 *Arachis hypogaea*, T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*].
- fortify spleen and percolate damp** T1614 *Coix lacryma-jobi* var. *ma-yuen*.
- fortify spleen and promote digestion** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2717 *Ficus carica*, T3742 *Lentinus edodes*, T4636 *Papaver somniferum*, T4644 *Parasilurus asotus*.
- fortify spleen and quiet heart** T5169 *Poria cocos*.
- fortify spleen and regulate menstruation** T2326 *Elaeagnus angustifolia*.
- fortify spleen and stomach** T0298 *Alectoria vivens*, T0983 *Bos taurus domesticus*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T5179 *Potentilla anserina*, T5872 *Selenarctos thibetanus*; *Ursus arctos*, T6656 *Ustilago maydis*.
- fortify spleen and supplement center** T0991 *Bos taurus domesticus*; *Bubalus bubalis*.
- fortify spleen and supplement lung** T0500 *Anguilla japonica*, T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T2727 *Ficus simplicissima*.
- fortify spleen and supplement vacuity** T3774 *Lespedeza tomentosa*, T4147 *Medicago falcata*, T5071 *Polygala arillata*.
- fortify spleen and suppress cough** T0151 *Acronychia pedunculata*.
- fortify spleen and warm stomach** T0363 *Alpinia speciosa*, T6267 *Syzygium jambos*.
- fortify stomach** T0158 *Actinidia chinensis*, T0357 *Alpinia japonica*, T0659 *Artemisia absinthium*, T1242 *Cassia occidentalis*, T1608 *Coffea arabica*, T1610 *Coffea liberica*, T1687 *Coriandrum sativum*, T4551 *Osmorhiza aristata* var. *laxa*, T5570 *Rosa roxburghii*, T6889 *Zanthoxylum podocarpum*.
- fortify stomach and disperse accumulation** T1546 *Clematis tangutica*.
- fortify stomach and disperse food** T0418 *Amomum muricarpum*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2763 *Fragaria ananassa*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3289 *Humulus lupulus*, T3962 *Lycopersicon esculentum*, T4100 *Mangifera indica*, T5122 *Polygonum viscosum*, T6071 *Sphaeranthus indicus*.
- fortify stomach and disperse stagnation** T4217 *Microcos paniculata* [Syn. *Grewia microcos*].
- fortify stomach and expel worms** T6895 *Zanthoxylum simulans*.
- fortify stomach and harmonize center** T3480 *Isodon angustifolia*, T4172 *Melilotus suaveolens*.
- fortify stomach and rectify qi** T0311 *Allium cepa*, T3725 *Laurus nobilis*.
- fortify stomach and relieve pain** T1492 *Citrus limon*, T1496 *Citrus limonia*, T2505 *Eucalyptus citriodora*, T6435 *Thladiantha cordifolia*.
- fortify stomach and resolve phlegm** T1501 *Citrus medica* var. *sarcodactylis*.
- free bowels and drain heat** T5469 *Rheum hotaoense*.
- free channels and network vessels** T0871 *Barleria lupulina*, T1327 *Cerastostigma minus*, T2438 *Erodium stephanianum*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T3436 *Inula nervosa*, T4950 *Piper kadsura* [Syn. *Piper futokadsura*], T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5981 *Smilax riparia*, T6588 *Typhonium giganteum*.
- free channels and quicken blood** T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*], T5648 *Salacia prinoides* [Syn. *Salacia chinensis*].
- free channels and quicken network vessels** T1589 *Cocculus trilobus* [Syn.

- Cocculus sarmentosus*], T2753 *Formica fusca*, T4308 *Mucuna birdwoodiana*, T6166 *Strychnos angustiflora*, T6738 *Viburnum odoratissimum*.
- free channels and relieve pain** T1943 *Cymbopogon goeringii*.
- free intestines and stomach** T1006 *Brassica chinensis*.
- free joints** T5977 *Smilax glabra*, T5980 *Smilax menispermoidea*.
- free medicinal strength** T3869 Liquor.
- free menstruation** T0941 *Bidens tripartita*, T1356 *Cheiranthus cheiri*, T2546 *Euonymus sacrosancta*, T3779 *Leucas aspera*.
- free menstruation and check discharge** T4575 *Pachysandra terminalis*.
- free menstruation and milk** T0632 *Aristolochia manshuriensis*, T4106 *Manis pentadactyla*.
- free menstruation and promote lactation** T4178 *Melodinus hemsleyanus*.
- free menstruation and quicken blood** T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*].
- free menstruation and relieve pain** T0994 *Boswellia carterii*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T3056 *Gossypium herbaceum*.
- free milk** T1508 *Citrus sinensis*, T1980 *Cyprinus carpio*, T2590 *Euphorbia hirta*, T3662 *Lactuca sativa*, T4206 *Metaplexis japonica*, T6357 *Tetrapanax papyriferus*.
- free milk and disinhibit water** T4983 *Pisum sativum*.
- free nasal orifices** T1312 *Centipeda minima*.
- free network vessels** T2426 *Erigeron sumatrensis*, T3913 *Lonicera japonica*, T4516 *Oplopanax elatus*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T6066 *Spatholobus suberectus*.
- free network vessels and disperse swelling** T1008 *Brassica juncea*.
- free network vessels and dissipate stasis** T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T5075 *Polygala fallax* [Syn. *Polygala aureocauda*].
- free network vessels and relieve pain** T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*], T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1084 *Buthus martensi*, T1545 *Clematis chinensis*, T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1767 *Craibiodendron yunnanese*, T1799 *Crinum latifolium*, T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T2194 *Dioscorea colletii*, T2213 *Dioscorea zingiberensis*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T4118 *Marsdenia oreophila*, T5021 *Pleurospermum rivulorum*, T5817 *Scolopendra subspinipes mutilans*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6252 *Symplocos chinensis*, T6862 *Zanthoxylum ailanthoides*.
- free orifices and relieve pain** T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*.
- free qi and effuse sweat** T0319 *Allium schoenoprasum*.
- free stool** T0334 *Aloe arborescens* var. *natalensis*, T1101 *Caesalpinia decapetala*, T1173 *Cannabis sativa*, T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*, T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1238 *Cassia mimosoides*, T1241 *Cassia occidentalis*, T1242 *Cassia occidentalis*, T1291 *Celastrus paniculatus*, T2612 *Euphorbia prolifera*, T3394 *Ilex paraguariensis*, T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*], T3935 *Luffa cylindrica*, T5613 *Rumex obtusifolius*, T5272 *Psorospermum febrifugum*, T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*].
- free stool and kill worms** T5607 *Rumex crispus*, T5614 *Rumex patientia*.
- free strangury** T0155 *Actinidia arguta*, T0158 *Actinidia chinensis*, T3240 *Hibiscus esculentus*, T3668 *Lagenaria siceraria* var. *depressa*, T5372 *Quercus dentata*.
- free strangury and expel stone** T4149 *Medicago sativa*.
- free strangury and transform turbid** T1001 *Brachystemma calycinum*.
- free yang** T0310 *Allium ascalonicum*, T0314 *Allium fistulosum*.
- harmonize blood** T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T5518 *Rhododendron mucronatum*, T5523 *Rhododendron simsii*, T5572 *Rosa rugosa*.
- harmonize blood and check dysentery** T4665 *Passiflora edulis*.
- harmonize blood and dispel wind** T1188 *Caragana chamlagu*.
- harmonize blood and relieve pain** T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*].
- harmonize blood and resolve toxin** T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*.
- harmonize blood and stanch bleeding** T0382 *Althaea rosea*.
- harmonize blood and vanquish toxin** T0094 *Aconitum finetianum*.
- harmonize center** T4190 *Mentha spicata*, T5938 *Setaria italica*.
- harmonize center and check vomiting** T6325 *Tectona grandis*.
- harmonize center and downbear counterflow** T4818 *Phoebe nanmu*.
- harmonize center and moisten intestines** T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*].
- harmonize center and precipitate qi** T4983 *Pisum sativum*.
- harmonize center and promote digestion** T1486 *Citrus junos*.
- harmonize center and relieve pain** T4086 *Malus asiatica*.
- harmonize exterior and interior** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- harmonize spleen and stomach** T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T1888 *Cudrania tricuspidata*.
- harmonize stomach** T1182 *Capra hircus*; *Ovis aries*, T1469 *Citrus aurantium* var. *amara*, T2263 *Dregea volubilis*, T4188 *Mentha rotundifolia*, T6145 *Stichopus japonicus*.
- harmonize stomach and arouse spleen** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*.
- harmonize stomach and check vomiting** T3372 *Hypodematium sinense*.
- harmonize stomach and disperse accumulation** T1467 *Citrus aurantium*, T5140 *Poncirus trifoliata*, T6285 *Tamarindus indica*.
- harmonize stomach and disperse food** T2452 *Erysimum cheiranthoides*, T2733 *Firmiana simplex*, T4348 *Myrica rubra*.
- harmonize stomach and fortify center** T6017 *Solanum tuberosum*.
- harmonize stomach and free stool** T1384 *Chondrus ocelladus*.

- harmonize stomach and inhibit acid** T4306 *Mosla grosseserrata*.
- harmonize stomach and soothe sinews** T1343 *Chaenomeles sinensis*.
- harmonize stomach and transform damp** T0212 *Agastache rugosus*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T4170 *Melilotus albus*, T4284 *Morinda parvifolia*.
- harmonize stomach and transform phlegm** T5226 *Prunus mume*.
- harmonize stomach and transform turbidity** T0978 *Bombyx mori*.
- hasten delivery** T3758 *Lepidium sativum*.
- hasten delivery or stop delivery** T1179 *Capparis masaikai*.
- increase appetite** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0472 *Anethum graveolens*, T1341 *Cetraria islandica*, T4546 *Oryza sativa*, T4547 *Oryza sativa* cv.
- increase appetite and check vomiting** T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].
- increase appetite and disperse food** T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*].
- induce sweat** T3394 *Ilex paraguariensis*.
- inhibit acid** T2841 *Gallus gallus domesticus*, T6412 *Thalictrum squarrosum*.
- inhibit secretion** T0825 *Atropa belladonna*.
- interrupt malaria** T0249 *Agrimonia pilosa* var. *japonica*, T0378 *Alstonia yunnanensis*, T0606 *Areca catechu*, T0653 *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*], T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0947 *Bixa orellana*, T1176 *Cannabis sativa*, T1446 *Cipadessa baccifera*, T1535 *Clausena excavata*, T1561 *Clerodendron serratum*, T1562 *Clerodendron trichotomum*, T1569 *Clerodendron serratum* var. *amplexifolium*, T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*], T2295 *Duranta repens*, T2310 *Dysoxylum hongkongense*, T2421 *Erigeron annuus*, T2695 *Ferula assafoetida*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3303 *Hydrangea chinensis*, T3304 *Hydrangea macrophylla*, T3308 *Hydrangea umbellata*, T3327 *Hyoscyamus niger*, T4803 *Phlogacanthus curviflorus*, T5107 *Polygonum multiflorum*, T5110 *Polygonum orientale*, T5184 *Potentilla kleiniana*, T5413 *Ranunculus cantoniensis*, T5414 *Ranunculus japonicus*, T5415 *Ranunculus sceleratus*, T5852 *Sedum bulbiferum*, T6402 *Thalictrum omeiense*, T6709 *Verbena officinalis*, T6723 *Veronica arvensis*, T6727 *Veronica persica*.
- interrupt malaria and abate fever** T1428 *Cinchona ledgeriana*, T1429 *Cinchona officinalis*, T1433 *Cinchona succirubra*.
- interrupt malaria and kill worms** T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*].
- interrupt malaria and settle pain** T1841 *Croton caudatus* var. *tomentosus*.
- invigorate yang** T6073 *Sphallerocarpus gracilis*.
- invigorate yang and secure essence** T0323 *Allium tuberosum*.
- joint bones** T1206 *Carica papaya*, T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T3685 *Lannea grandis* [Syn. *Lannea coromandelica*], T5733 *Sarcococca vagans*.
- joint bones and disperse swelling** T4031 *Maesa perlarium*.
- joint bones and engender flesh** T1871 *Cucubalus baccifer*.
- joint sinews and bones** T0170 *Adhatoda vasica*, T0871 *Barleria lupulina*, T6138 *Sterculia foetida*.
- kill snails** T0398 *Ambrosia artemisiifolia*.
- kill worms** T0012 *Abrus precatorius*, T0215 *Agave americana*, T0248 *Agrimonia pilosa*, T0255 *Ailanthus altissima*, T0314 *Allium fistulosum*, T0318 *Allium sativum*, T0364 *Alsophila spinulosa*, T0435 *Anabasis aphylla*, T0513 *Annona squamosa*, T0707 *Arthraxon hispidus*, T0750 *Asparagus gobicus*, T0752 *Asparagus officinalis*, T1097 *Cacalia ainsliaeflora*, T1210 *Carpesium abrotanoides*, T1211 *Carpesium abrotanoides*, T1278 *Cedrela sinensis*, T1374 *Chloranthus spicatus*, T1388 *Chrysanthemum cinerariaefolium*, T1389 *Chrysanthemum coccineum*, T1437 *Cinnamomum camphora*, T1535 *Clausena excavata*, T1558 *Clerodendron inerme*, T1582 *Cnidium monnieri*, T1591 *Cocos nucifera*, T1593 *Cocos nucifera*, T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1815 *Crotalaria assamica*, T1867 *Cryptomeria fortunei*, T2048 *Daucus carota*, T2049 *Daucus carota*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T2281 *Dryopteris crassirhizoma*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*], T2536 *Euonymus alatus*, T2546 *Euonymus sacrosancta*, T2567 *Eupatorium odoratum*, T2584 *Euphorbia ebracteolata*, T2585 *Euphorbia esula*, T2587 *Euphorbia fischeriana*, T2599 *Euphorbia lunulata*, T2612 *Euphorbia prolifera*, T2624 *Euphorbia tirucalli*, T2695 *Ferula assafoetida*, T2857 *Garcinia hanburyi*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3263 *Holarrhena antidysenterica*, T3327 *Hyoscyamus niger*, T3420 *Incarvillea sinensis*, T3567 *Juglans regia*, T3570 *Juglans regia*, T3630 *Kleinhovia hospita*, T3726 *Laurus nobilis*, T4020 *Macleaya cordata*, T4127 *Matteuccia struthiopteris*, T4157 *Melia azedarach*, T4552 *Osmunda japonica*, T4690 *Pelargonium graveolens*, T4890 *Pieris japonica*, T5098 *Polygonum aviculare*, T5113 *Polygonum persicaria*, T5185 *Potentilla multifida*, T5220 *Prunus davidiana*, T5221 *Prunus davidiana*, T5232 *Prunus persica*, T5234 *Prunus persica*, T5235 *Prunus persica*, T5317 *Pueraria peduncularis*, T5327 *Punica granatum*, T5516 *Rhododendron molle*, T5537 *Rhus sylvestris*, T5542 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*], T5595 *Rubus parviflorus*, T5605 *Rumex acetosa*, T5613 *Rumex obtusifolius*, T5719 *Sapindus mukorossi*, T5726 *Saponaria officinalis*, T5920 *Seriphidium cinum* [Syn. *Artemisia cina*], T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6035 *Sophora japonica*, T6048 *Sophora viciifolia*, T6177 *Strychnos ignatii*, T6219 *Swertia erythrosticta*, T6277 *Tadehagi triquetrum*, T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6476 *Torilis japonica*, T6691 *Veratrum baillonii*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*, T6826 *Wisteria sinensis*, T6827 *Wisteria sinensis*, T6831 *Woodwardia orientalis*, T6860 *Zanthoxylum ailanthoides*, T6870 *Zanthoxylum bungeanum*.
- kill worms and cure sores** T1436 *Cinnamomum camphora*.
- kill worms and disinhibit damp** T5455 *Rhamnus crenata*.
- kill worms and disperse accumulation** T1632 *Combretum yunnanensis*, T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*].
- kill worms and disperse gan** T1049 *Bufo bufo* gargarizans; *Bufo melanostictus*.
- kill worms and dissipate binds** T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- kill worms and ejection** T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*].
- kill worms and relieve diarrhea** T4083 *Mallotus philippinensis*, T4084

Mallotus philippinensis.

- kill worms and relieve itch** T0142 *Acorus calamus*, T0297 *Alchornea trewioides*, T0749 *Asparagus filicinus*, T0853 *Baekkea frutescens*, T1261 *Catalpa ovata*, T1264 *Catalpa ovata*, T1359 *Chenopodium album*, T1361 *Chenopodium ambrosioides*, T1594 *Cocos nucifera*, T2077 *Delphinium grandiflorum*, T2124 *Derris trifoliata*, T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T2580 *Euphorbia antiquorum*, T2602 *Euphorbia nematocypha*, T2617 *Euphorbia royleana*, T2651 *Excoecaria cochinchinensis* var. *viridis*, T3245 *Hibiscus syriacus*, T3560 *Jatropha curcas*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T4158 *Melia azedarach*, T4159 *Melia azedarach*, T4572 *Pachyrhizus erosus*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5010 *Platycarya strobilacea*, T5026 *Plumbagella micrantha*, T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*], T5308 *Pterocarya stenoptera*, T5368 *Python molurus bivittatus*, T5483 *Rhinacanthus nasutus*, T5608 *Rumex dentatus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6155 *Strophanthus divaricatus*, T6713 *Veronica anthelmintica*.
- kill worms and relieve pain** T0099 *Aconitum gymnandrum*, T6029 *Sophora alopecuroides*, T6101 *Stauntonia hexaphylla*, T6858 *Zanthoxylum acanthopodium*.
- loosen center** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T4544 *Oryza sativa*.
- loosen center and induce stagnation** T2998 *Glycine max*.
- loosen center and rectify qi** T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*.
- loosen chest and disinhibit qi** T1486 *Citrus junos*, T1786 *Cremanthodium ellisii*.
- loosen chest and dissipate binds** T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*].
- loosen chest and resolve depression** T3192 *Hemerocallis citrina*.
- loosen intestines and stomach** T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*].
- lower blood pressure** T0544 *Apium graveolens*, T0553 *Apocynum venetum*, T0561 *Arachis hypogaea*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0631 *Aristolochia kaempferi*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1190 *Caragana jubata*, T1241 *Cassia occidentalis*, T1311 *Centella asiatica*, T1385 *Chorda filum*, T1393 *Chrysanthemum indicum*, T1417 *Cimicifuga acerina*, T1562 *Clerodendron trichotomum*, T1565 *Clerodendrum bungei*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1776 *Crataegus pinnatifida*, T1777 *Crataegus pinnatifida*, T2115 *Dermatocarpon minutum*, T2445 *Ervatamia officinalis*, T2530 *Eucommia ulmoides*, T2531 *Eucommia ulmoides*, T2565 *Eupatorium lindleyanum*, T2569 *Eupatorium rebaudianum*, T2659 *Fagopyrum esculentum*, T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T2973 *Glechoma longituba*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3878 *Lithocarpus polystachyus*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T4028 *Maesa indica*, T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*, T4195 *Menyanthes trifoliata*, T4290 *Morus alba*, T4438 *Nostoc flagelliforme*, T4487 *Olea europaea*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5423 *Rauwolfia verticillata*, T5424 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5442 *Rauwolfia serpentina*, T5657 *Salsola collina*, T5723 *Sapium sebiferum*, T5817 *Scolopendra subspinipes mutilans*, T5969 *Sium latifolium*, T6478 *Torreya jackii*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*, T6772 *Viscum angulatum*, T6803 *Volvarella volvacea*.
- lower blood sugar levels** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T3085 *Gynostemma pentaphyllum*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- lower blood-fat** T0311 *Allium cepa*, T4487 *Olea europaea*.
- lower cholesterol** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2733 *Firmiana simplex*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T5101 *Polygonum cuspidatum*, T5107 *Polygonum multiflorum*, T6528 *Trigonella foenum-graecum*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- lower vacuity heat** T3954 *Lycium barbarum*, T3956 *Lycium chinense*, T4887 *Picrorhiza kurroo*, T4888 *Picrorhiza scrophulariiflora*.
- lubricate intestines** T1173 *Cannabis sativa*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T5549 *Ricinus communis*.
- lubricate intestines and free stool** T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6511 *Trichosanthes kirilowii*.
- lubricate intestines and precipitate accumulation** T0560 *Arachis hypogaea*.
- moisten dryness** T0843 *Babylonia lutos*, T1173 *Cannabis sativa*, T1182 *Capra hircus*; *Ovis aries*, T1526 *Cladonia rangiferina*, T4912 *Pinus koraiensis*, T6076 *Spinacia oleracea*, T6206 *Sus scrofa domestica*.
- moisten dryness and free stool** T3860 *Linum usitatissimum*.
- moisten dryness and harmonize center** T5642 *Saccharum sinensis*.
- moisten dryness and lubricate intestines** T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*].
- moisten dryness and transform phlegm** T0983 *Bos taurus domesticus*.
- moisten intestines** T0300 *Aleurites moluccana*, T4288 *Morus alba*, T4536 *Orobanchae coerulea*, T4715 *Perilla frutescens*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T5229 *Prunus persica*, T5238 *Prunus salicina*, T5927 *Sesamum indicum* [Syn. *Sesamum orientale*].
- moisten intestines and free stool** T0540 *Apis cerana*, T0944 *Biota*

- orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*], T0993 *Boschniakia rossica*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1356 *Cheiranthus cheiri*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1972 *Cynomorium songaricum*, T2999 *Glycine max*, T3568 *Juglans regia*, T4487 *Olea europaea*, T4976 *Piptanthus nepalensis*, T5107 *Polygonum multiflorum*, T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*, T5233 *Prunus persica*, T5454 *Rhamnus cathartica*, T5460 *Rhamnus frangula* [Syn. *Frangula alnus*], T5657 *Salsola collina*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T6139 *Sterculia lychnophora*, T6428 *Thermopsis lanceolata*.
- moisten intestines and relieve constipation** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- moisten lung** T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T2101 *Dendrobium fimbriatum*, T2221 *Diospyros kaki*, T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*.
- moisten lung and clear heart** T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*.
- moisten lung and disinhibit throat** T2839 *Gallus gallus domesticus*.
- moisten lung and engender liquid** T1476 *Citrus erythrosa*, T1515 *Citrus tangemna*, T1598 *Codonopsis convolvulacea*, T5260 *Pseudostellaria heterophylla*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*].
- moisten lung and precipitate qi** T0781 *Aster tataricus*, T2431 *Eriobotrya japonica*, T6574 *Tussilago farfara*.
- moisten lung and relieve cough** T0540 *Apis cerana*, T0749 *Asparagus filicinus*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0859 *Balanophora involucrata*, T1183 *Capra hircus*; *Ovis aries*, T1751 *Corylus heterophylla*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3344 *Hypericum chinense*, T3983 *Lycoris aurea*, T4050 *Magnolia sieboldii*, T4823 *Pholidota yunnanensis*, T5363 *Pyrus calleryana*, T6097 *Staphylea bumalda*.
- moisten lung and settle asthma** T5218 *Prunus armeniaca*.
- moisten lung and suppress cough** T4195 *Menyanthes trifoliata*, T5215 *Prunus amygdalus*.
- moisten lung and transform phlegm** T0438 *Anacardium occidentale*, T0559 *Arachis hypogaea*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1353 *Changium smyrnioides*.
- moisten skin** T0167 *Adenanthera pavonina*, T0516 *Anser cygnoides domestica*, T1183 *Capra hircus*; *Ovis aries*, T4188 *Mentha rotundifolia*, T5549 *Ricinus communis*.
- moisten skin and engender flesh** T0540 *Apis cerana*, T0543 *Apis mellifera ligustica*.
- move blood and quicken network vessels** T2053 *Davallia mariesii*.
- move blood and relieve itch** T2835 *Galium verum*.
- move qi** T0322 *Allium tuberosum*, T0357 *Alpinia japonica*, T0359 *Alpinia officinarum*, T0472 *Anethum graveolens*, T1328 *Ceratostigma plumbaginoides*, T1329 *Ceratostigma willmottianum*, T1508 *Citrus sinensis*, T2479 *Erythrina variegata* var. *orientalis*, T2612 *Euphorbia prolifera*, T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T4002 *Lysimachia foenum-graecum*, T4163 *Melia toosendan*, T4209 *Michelia alba*, T5167 *Porana racemosa*, T6800 *Viverra zibetha*.
- move qi and check diarrhea** T3263 *Holarrhena antidysenterica*.
- move qi and disinhibit damp** T2727 *Ficus simplicissima*.
- move qi and disperse accumulation** T4048 *Magnolia rostrata*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*].
- move qi and disperse food** T1563 *Clerodendron trichotomum*.
- move qi and dissipate binds** T4855 *Physeter catodon*.
- move qi and dissipate blood** T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*].
- move qi and dissipate cold** T3847 *Lindera angustifolia*.
- move qi and dissipate stasis** T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2720 *Ficus hispida*, T3381 *Hyptis suaveolens*, T4036 *Magnolia coco*.
- move qi and fortify stomach** T0859 *Balanophora involucrata*, T5363 *Pyrus calleryana*.
- move qi and free network vessels** T6106 *Stelmatocrypton khasianum*.
- move qi and harmonize center** T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- move qi and loosen center** T3849 *Lindera chunii*.
- move qi and quicken blood** T0151 *Acronychia pedunculata*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0877 *Bauhinia championii*, T0967 *Boenninghausenia sessilicarpa*, T0994 *Boswellia carterii*, T1381 *Choerospondias axillaris*, T1113 *Calendula officinalis*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T3418 *Incarvillea arguta*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3885 *Litsea cubeba*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4470 *Ocimum basilicum*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T5029 *Plumbago zeylanica*, T6118 *Stephania brachyandra*, T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*, T6683 *Vallisneria spiralis*.
- move qi and quicken blood and relieve pain** T4962 *Piper puberulum*.
- move qi and regulate center** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*.
- move qi and relieve depression** T1907 *Curcuma wengujin*, T1978 *Cyperus rotundus*, T5572 *Rosa rugosa*.
- move qi and relieve pain** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T0631 *Aristolochia kaempferi*, T0642 *Aristolochia tubiflora*, T0942 *Biebersteinia heterostemon*, T1258 *Casuarina equisetifolia*, T1440 *Cinnamomum glanduliferum*, T1444 *Cinnamomum tamala*, T1535 *Clausena excavata*, T1537 *Clausena lansium*, T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2636 *Euscaphis japonica*, T2643 *Evodia meliifolia*, T2745 *Foeniculum vulgare*, T3164 *Helicteres isora*, T3270 *Holboellia fargesii*, T3400 *Illicium difengpi*, T3403 *Illicium majus*, T3554 *Jasminum grandiflorum*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3746 *Leontice robustum*, T3850 *Lindera glauca*, T3856 *Lindera umbellata* [Syn. *Lindera*

- erythrocarpa*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3997 *Lysimachia capillipes*, T4039 *Magnolia grandiflora*, T4157 *Melia azedarach*, T4158 *Melia azedarach*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4428 *Nicotiana tabacum*, T4527 *Orixa japonica*, T4690 *Pelargonium graveolens*, T4938 *Piper boehmeriaefolium*, T4944 *Piper cubeba*, T4948 *Piper hancei*, T4965 *Piper sarmentosum*, T4966 *Piper sarmentosum*, T5042 *Podocarpus macrophyllus*, T5044 *Podocarpus macrophyllus* var. *maki*, T5189 *Pothos chinensis*, T5591 *Rubus cochinchinensis*, T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*], T5793 *Schisandra henryi*, T6062 *Sparganium stoloniferum*, T6339 *Tephrosia purpurea*, T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*], T6878 *Zanthoxylum echinocarpum*.
- move qi and transform phlegm** T1538 *Clausena lansium*, T4100 *Mangifera indica*, T4937 *Piper betle*.
- move qi-blood** T6018 *Solanum verbascifolium*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*.
- move stagnation and transform damp** T5104 *Polygonum hydropiper*.
- move stasis** T5579 *Rubia cordifolia*.
- move water** T0606 *Areca catechu*, T3426 *Inula britannica*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3433 *Inula japonica*, T3434 *Inula linariaefolia*.
- move water and disperse swelling** T1756 *Costus speciosus*, T2125 *Descurainia sophia*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*, T3980 *Lycopus lucidus*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*].
- move water and dissipate damp** T2343 *Elsholtzia splendens*.
- move water and free stool** T5461 *Rhamnus leptophylla*.
- normalize qi** T2733 *Firmiana simplex*, T2746 *Foeniculum vulgare*.
- normalize qi and loosen chest** T1586 *Cocculus laurifolius*.
- normalize qi and relieve pain** T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*].
- normalize qi and transform phlegm** T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*].
- nourish blood** T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T0989 *Bos taurus domesticus*; *Bubalus bubalis*, T3279 *Homo sapiens*, T4912 *Pinus koraiensis*, T6076 *Spinacia oleracea*.
- nourish blood and boost essence** T5925 *Sesamum indicum* [Syn. *Sesamum orientale*].
- nourish blood and dispel wind** T3860 *Linum usitatissimum*.
- nourish blood and extinguish wind** T2840 *Gallus gallus domesticus*.
- nourish blood and free milk** T4478 *Octopus vulgaris*.
- nourish blood and free network vessels** T3124 *Hedyotis capitellata*.
- nourish blood and quicken blood** T0991 *Bos taurus domesticus*; *Bubalus bubalis*.
- nourish blood and quiet spirit** T4555 *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6916 *Ziziphus jujuba*, T6917 *Ziziphus jujuba* var. *inermis*.
- nourish blood and regulate menstruation** T0495 *Angelica sinensis*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T4804 *Phlojodicarpus sibiricus*.
- nourish blood and stanch bleeding** T0982 *Bos taurus domesticus*, T5529 *Rhodomyrtus tomentosa*.
- nourish body and quicken blood** T3675 *Lagopsis supina*.
- nourish heart** T6544 *Triticum aestivum* [Syn. *Triticum vulgare*].
- nourish heart and quiet spirit** T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*], T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1381 *Choerospondias axillaris*, T4194 *Menyanthes trifoliata*, T4400 *Nelumbo nucifera*, T4902 *Pimpinella thelungiana*, T5108 *Polygonum multiflorum*, T5497 *Rhodiola kirilowii*, T5701 *Salvia yunnanensis*.
- nourish liver** T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T6918 *Ziziphus jujuba* var. *spinosa*.
- nourish liver and boost kidney** T2326 *Elaeagnus angustifolia*.
- nourish liver and brighten eyes** T1789 *Crepis napifera*.
- nourish lung and enrich kidney** T2188 *Dioscorea alata*.
- nourish qi blood** T5586 *Rubia yunnanensis*.
- nourish yin and calm liver** T3001 *Glycine max*.
- nourish yin and clear lung** T2983 *Glehnia littoralis*.
- nourish yin and engender liquid** T3873 *Liriope platyphylla*, T3874 *Liriope spicata*, T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*.
- nourish yin and harmonize stomach** T1353 *Changium smyrnioides*.
- nourish yin and moisten dryness** T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*.
- nourish yin and moisten lung** T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*], T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].
- open orifices** T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3868 *Liquidambar orientalis*.
- open orifices and arouse spirit** T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T6197 *Syrax benzoin*, T6204 *Syrax tonkinensis*.
- open orifices and free spirit** T2274 *Dryobalanops aromatica*.
- open stomach and transform phlegm** T4696 *Penaeus orientalis*.
- open stomach qi** T2761 *Fortunella margarita*.
- outthrust papules** T1687 *Coriandrum sativum*, T3145 *Helianthus annuus*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadenensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*].
- outthrust papules and relieve itch** T3738 *Lemna minor*.
- outthrust welling abscess and pus** T3145 *Helianthus annuus*.
- overcome damp and relieve pain** T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].
- percolate damp and kill worms** T4851 *Physalis minima*.
- percolate damp and relieve itch** T2590 *Euphorbia hirta*.
- precipitate heat toxin** T5993 *Solanum capsicastrum*.
- precipitate qi** T0606 *Areca catechu*, T1168 *Canavalia ensiformis*, T1169

- Canavalia gladiata*, T1508 *Citrus sinensis*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T4544 *Oryza sativa*, T4546 *Oryza sativa*, T4547 *Oryza sativa* cv, T4957 *Piper nigrum*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5419 *Raphanus sativus*.
- precipitate qi and disperse accumulation** T2659 *Fagopyrum esculentum*.
- precipitate qi and disperse food** T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*.
- precipitate qi and disperse phlegm** T6347 *Terminalia chebula*.
- precipitate qi and eliminate fullness** T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*.
- precipitate qi and loosen chest** T4086 *Malus asiatica*.
- precipitate qi and loosen intestines** T2658 *Fagopyrum esculentum*.
- precipitate qi and move blood** T6497 *Tribulus terrestris*.
- precipitate qi and move water** T2439 *Eruca sativa*.
- precipitate qi and regulate center** T1472 *Citrus chachiensis*, T1517 *Citrus tankan*.
- precipitate qi and relieve pain** T4953 *Piper longum*.
- promote astriction** T2181 *Dillenia indica*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2841 *Gallus gallus domesticus*, T5266 *Psidium guajava*, T6474 *Toona ciliata*.
- promote astriction and check drain** T0293 *Albizia lebbekii*.
- promote astriction and secure astriction** T1927 *Cycas revoluta*.
- promote astriction and stanch bleeding** T0248 *Agrimonia pilosa*, T0249 *Agrimonia pilosa* var. *japonica*, T0955 *Bletilla striata*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspidata*], T1256 *Castanea mollissima*, T3361 *Hypericum perforatum*.
- promote astriction and stem desertion** T2826 *Galeola faberi*.
- promote contraction** T3394 *Ilex paraguariensis*, T4797 *Phillyrea latifolia*.
- promote contraction and check discharge** T3570 *Juglans regia*.
- promote contraction and check drain** T5265 *Psidium guajava*, T5330 *Punica granatum*.
- promote contraction and resolve toxin** T5530 *Rhus chinensis* [Syn. *Rhus semialata*].
- promote contraction and secure astriction** T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- promote contraction and stanch bleeding** T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*], T3926 *Loropetalum chinense*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4082 *Mallotus japonicus*, T4361 *Myrsine africana*, T5183 *Potentilla griffithii* var. *velutina*, T5499 *Rhodiola sacra*, T5555 *Rodgersia pinnata*, T5673 *Salvia glutinosa*, T6485 *Trachycarpus fortunei*.
- promote contraction and stem desertion** T5188 *Potentilla viscosa*, T6353 *Tetracera asiatica*.
- promote lactation** T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T1881 *Cucurbita moschata*, T1961 *Cynanchum thesioides*, T2624 *Euphorbia tirucalli*, T3018 *Glycyrrhiza pallidiflora*, T3240 *Hibiscus esculentus*, T4436 *Nitraria tangutorum*, T4644 *Parasilurus asotus*, T6507 *Trichosanthes cucumeroides*, T6771 *Viscum album*, T6777 *Viscum multinerve*.
- promote lactation and disperse edema** T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*].
- promote lactation and free stool** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*].
- promote vomiting** T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T1262 *Catalpa ovata*, T1291 *Celastrus paniculatus*, T1315 *Cephaelis ipecacuanha*, T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T1876 *Cucumis melo*, T3988 *Lycoris squamigera*, T6132 *Stephania sasakii*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*.
- promote vomiting and expel phlegm drool** T0299 *Aleurites cordata* [Syn. *Aleurites fordii*].
- promote yang and dissipate binds** T0313 *Allium chinense*, T0316 *Allium macrostemon*.
- promote yang and transform qi** T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- protect hepatic function** T3085 *Gynostemma pentaphyllum*.
- quicken blood** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0300 *Aleurites moluccana*, T0495 *Angelica sinensis*, T0535 *Antidesma bunioides*, T0598 *Ardisia japonica*, T0886 *Beaumontia grandiflora*, T1175 *Cannabis sativa*, T1189 *Caragana intermedia*, T1328 *Ceratostigma plumbaginoides*, T1329 *Ceratostigma willmottianum*, T1682 *Cordyceps ophioglossoides*, T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtshchinovii* f. *yanhusuo*], T1955 *Cynanchum hancockianum*, T2154 *Dicentra spectabilis*, T2267 *Drosera peltata* var. *lunata*, T2347 *Embelia parviflora*, T2410 *Equisetum pratense*, T2601 *Euphorbia milii*, T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3775 *Lethariella cladonioides*, T3859 *Linum usitatissimum*, T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*], T4227 *Microula sikkimensis*, T4253 *Mirabilis jalapa*, T4335 *Mussaenda pubescens*, T4500 *Onosma paniculatum*, T4662 *Parthenocissus tricuspidata*, T4787 *Phellinus igniarius*, T4804 *Phlojodicarpus sibiricus*, T4951 *Piper laetispicum*, T5018 *Pleuropterus ciliinervis*, T5106 *Polygonum lapathifolium*, T5110 *Polygonum orientale*, T5167 *Porana racemosa*, T5193 *Pratia nummularia*, T5229 *Prunus persica*, T5626 *Ruta graveolens*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5741 *Sargentodoxa cuneata*, T6015 *Solanum torvum*, T6066 *Spatholobus suberectus*, T6533 *Trillium kamschatcicum*, T6535 *Trillium tschonoskii*, T6578 *Tylophora atropolliculata*, T6735 *Viburnum dilatatum*, T6737 *Viburnum luzonicum*, T6800 *Viverra zibetha*, T6872 *Zanthoxylum cuspidatum*.
- quicken blood and disinhibit water** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T3000 *Glycine max*.
- quicken blood and dispel stasis** T0122 *Aconitum pendulum*, T1108 *Caesalpinia sappan*, T1799 *Crinum latifolium*, T1924 *Cyathula officinalis*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T5233 *Prunus persica*, T5671 *Salvia digitaloides*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5701 *Salvia yunnanensis*, T5794 *Schisandra lancifolia*, T5966 *Siphonostegia chinensis*, T5975 *Smilax bockii*, T6051 *Sorbaria arborea*, T6052 *Sorbaria sorbifolia*, T6584 *Typha angustata*,

- T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- quicken blood and dispel wind** T1025 *Bretschneidera sinensis*, T5939 *Shiraia bambusicola*.
- quicken blood and disperse swelling** T0130 *Aconitum sinomontanum*, T0537 *Antirrhinum majus*, T0601 *Ardisia pusilla*, T0938 *Bidens bipinnata*, T0982 *Bos taurus domesticus*, T1137 *Caltha palustris*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1254 *Castanea mollissima*, T1305 *Centaurea cyanus*, T1361 *Chenopodium ambrosioides*, T1556 *Clerodendron fragrans*, T1557 *Clerodendron indicum*, T1869 *Cryptotaenia japonica*, T2020 *Damnacanthus indicus*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2189 *Dioscorea althaeoides*, T2206 *Dioscorea parviflora*, T3414 *Impatiens sicutifera*, T3457 *Iris dichotoma*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T4320 *Murraya kwangsiensis*, T4948 *Piper hancei*, T5424 *Rauwolfia verticillata*, T5547 *Ricinus communis*, T5714 *Sansevieria trifasciata*, T5781 *Schefflera arboricola*, T5785 *Schefflera venulosa*, T6008 *Solanum nigrum*, T6155 *Strophanthus divaricatus*, T6645 *Urena lobata*.
- quicken blood and disperse welling abscess** T0292 *Albizia julibrissin*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T4726 *Periploca forrestii*.
- quicken blood and dissipate binds** T0751 *Asparagus officinalis*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- quicken blood and dissipate stasis** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0591 *Ardisia arborescens*, T0680 *Artemisia lactiflora*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0969 *Boerhavia diffusa*, T1372 *Chloranthus serratus*, T1450 *Cirsium lineare*, T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1735 *Corydalis repens*, T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T3187 *Helleborus thibetanus*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3479 *Isodon amethystoides*, T3746 *Leontice robustum*, T3853 *Lindera obtusiloba*, T4106 *Manis pentadactyla*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T5101 *Polygonum cuspidatum*, T5109 *Polygonum nodosum*, T5400 *Rabdosia stracheyi*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5746 *Sassafras tzumu*, T5838 *Scutellaria galericulata*, T6709 *Verbena officinalis*, T6728 *Veronica serpyllifolia*, T6861 *Zanthoxylum ailanthoides*.
- quicken blood and free menstruation** T0571 *Aralia decaisneana*, T0978 *Bombyx mori*, T1215 *Carthamus tinctorius*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2541 *Euonymus grandiflorus*, T4432 *Nigella glandulifera*, T5401 *Rabdosia yunnanensis*, T5755 *Saussurea involucrata*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], T6895 *Zanthoxylum simulans*.
- quicken blood and free network vessels** T0364 *Alsophila spinulosa*, T0428 *Ampelopsis megalophylla*, T0634 *Aristolochia mollissima*, T0926 *Berneuxia thibetica*, T1435 *Cinnamomum camphora*, T2538 *Euonymus bungeanus*, T2723 *Ficus pumila*, T2752 *Fordia cauliflora*, T2895 *Gaultheria yunnanensis*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3480 *Isodon angustifolia*, T3680 *Lamium amplexicaule*, T3990 *Lygodium japonicum*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4234 *Milletia dielsiana*, T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*], T5124 *Polypodium niponicum*, T5144 *Populus adenopoda*, T5221 *Prunus davidiana*, T5235 *Prunus persica*, T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T6542 *Tripterygium wilfordii*, T6827 *Wisteria sinensis*.
- quicken blood and free vessels** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T3270 *Holboellia fargesii*, T3869 *Liquor*.
- quicken blood and joint bones** T1147 *Camellia oleifera*, T2387 *Epilobium hirsutum*.
- quicken blood and move qi** T4221 *Micromelum falcatum*, T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*].
- quicken blood and move stasis** T1371 *Chloranthus japonicus*.
- quicken blood and nourish heart** T2964 *Ginkgo biloba*.
- quicken blood and promote milk** T2316 *Echinops grijisii*, T2317 *Echinops ritro*, T5466 *Rhaponticum uniflorum*, T6356 *Tetrapanax papyriferus*.
- quicken blood and quiet spirit** T4906 *Pinus armandii*, T4916 *Pinus massoniana*.
- quicken blood and regulate menstruation** T0073 *Achyranthes bidentata*, T0298 *Alectoria vivens*, T0963 *Boehmeria siamensis*, T0999 *Bougainvillea glabra*, T1023 *Bredia tuberculata*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1163 *Campylotropis hirtella*, T1285 *Celastrus angulatus*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1976 *Cyperus iria*, T2348 *Embelia ribes*, T2542 *Euonymus japonicus*, T2545 *Euonymus phellomana*, T3340 *Hypericum ascyron*, T3363 *Hypericum sampsonii*, T3413 *Impatiens nolitangere*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3774 *Lespedeza tomentosa*, T3776 *Lethariella zahlbruckneri*, T3785 *Levisticum officinale*, T3999 *Lysimachia clethroides*, T4311 *Mucuna sempervirens*, T4450 *Nuphar pumilum*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4813 *Phlomis tuberosa*, T5118 *Polygonum suffultum*, T5555 *Rodgersia pinnata*, T5562 *Rosa chinensis*, T5566 *Rosa henryi*, T5569 *Rosa multiflora*, T5672 *Salvia flava*, T5697 *Salvia trijuga*, T5762 *Saussurea nigrescens*, T5893 *Senecio nudicaulis*, T6228 *Swertia nervosa*, T6676 *Valeriana hardwickii*, T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*].
- quicken blood and relieve pain** T0079 *Aconitum brachypodum*, T0098 *Aconitum geniculatum*, T0100 *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*], T0117 *Aconitum nagarum* var. *lasiandrum*, T0170 *Adhatoda vasica*, T0275 *Akebia quinata*, T0295 *Albizia odoratissima*, T0383 *Alyxia sinensis*, T0594 *Ardisia crenata*, T0726 *Asarum forbesii*, T0759 *Aspidistra elatior*, T1046 *Buddleja davidii*, T1100 *Caesalpinia crista*, T1286 *Celastrus flagellaris*, T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1374 *Chloranthus spicatus*, T1417 *Cimicifuga acerina*, T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T1672 *Corallodiscus flabellatus* [Syn.

Didissandra flabellata, T1721 *Corydalis linearoides*, T1730 *Corydalis ophiocarpa*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T1810 *Croomia japonica*, T1907 *Curcuma wengujin*, T1934 *Cyclea tonkinensis*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T2027 *Daphne odora*, T2028 *Daphne odora*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2295 *Duranta repens*, T2409 *Equisetum palustre*, T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*], T2721 *Ficus microcarpa*, T2731 *Firmiana simplex*, T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T2736 *Fissistigma polyanthum*, T3063 *Grevillea robusta*, T3201 *Hemiphragma heterophyllum*, T3292 *Hunteria zeylanica*, T3303 *Hydrangea chinensis*, T3401 *Illicium henryi*, T3410 *Impatiens balsamina*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3681 *Lamium barbatum*, T3991 *Lyonia ovalifolia*, T3995 *Lysidice rhodostegia*, T3996 *Lysimachia candida*, T4004 *Lysimachia paridiformis*, T4444 *Nothopanax davidii*, T4577 *Paederia scandens*, T4663 *Passiflora caerulea*, T4689 *Peganum nigellastrum*, T4725 *Periploca calophylla*, T4778 *Phallus impudicus*, T4810 *Phlomis mongolica*, T4827 *Photinia parvifolia*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5119 *Polygonum thunbergii*, T5230 *Prunus persica*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5396 *Rabdosia rubescens*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5640 *Sabina vulgaris*, T5793 *Schisandra henryi*, T5799 *Schisandra rubriflora*, T5813 *Scilla scilloides*, T5840 *Scutellaria indica*, T5942 *Sida acuta*, T6099 *Stauntonia chinensis*, T6138 *Sterculia foetida*, T6444 *Thunbergia grandiflora*, T6551 *Trogoxeris xanthipes*; *Pteromys volans*, T6580 *Tylophora floribunda*, T6742 *Vicia amoena*, T6777 *Viscum multinerve*.

quicken blood and resolve toxin T0440 *Anagallis arvensis*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0595 *Ardisia crispa*, T0729 *Asarum maximum*, T0957 *Blumea balsamifera*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2262 *Dregea sinensis*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T2955 *Geum japonicum*, T2956 *Geum japonicum*, T3646 *Kyllinga brevifolia*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4252 *Mirabilis jalapa*, T4260 *Moghania philippinensis*, T5184 *Potentilla kleiniana*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5639 *Sabina chinensis*, T5954 *Silene fortunei*, T5987 *Sobina chinensis*.

quicken blood and settle pain T1871 *Cucubalus baccifer*, T2614 *Euphorbia pulcherrima*.

quicken blood and soothe sinews T0471 *Anemone rivularis*, T5586 *Rubia yunnanensis*, T5866 *Selaginella sanguinolenta*.

quicken blood and stanch bleeding T0001 *Abelmoschus manihot*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0736 *Asclepias curassavica*, T0952 *Blechnum orientale*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2220 *Diospyros kaki*, T3318 *Hylotelephium mingjinianum*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3645 *Kummerowia striata*, T3659 *Lactuca indica*, T3670 *Lagerstroemia indica*, T3671

Lagerstroemia indica, T4413 *Nepeta cataria*, T5269 *Psilotum nudum*, T5297 *Pteris plumbea*, T5310 *Pterospermum lanceaeifolium*, T5541 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], T5567 *Rosa laevigata*, T6531 *Trillium camtschaticum*, T6540 *Tripterygium hypoglaucum*, T6722 *Veronica anagallis-aquatica*, T6830 *Woodfordia fruticosa*.

quicken blood and strengthen sinews T3992 *Lyonia ovalifolia* var. *elliptica*.

quicken blood and transform stasis T1001 *Brachystemma calycinum*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T1808 *Crocus sativus*, T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3980 *Lycopus lucidus*, T4143 *Meconopsis horridula*, T4562 *Oxalis acetosella*, T5231 *Prunus persica*, T5497 *Rhodiola kirilowii*, T5578 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumannina*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*, T5638 *Sabia swinhoei*, T5661 *Salvia bowleyana*.

quicken blood and vessels T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*.

quicken network vessels T4965 *Piper sarmentosum*.

quicken network vessels and relieve pain T2422 *Erigeron breviscapus*, T5822 *Scopolia sinensis*, T6691 *Veratrum baillonii*.

quiet fetus T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T1490 *Citrus limon*, T1494 *Citrus limonia*, T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1980 *Cyprinus carpio*, T1982 *Cyprinus carpio*, T2530 *Eucommia ulmoides*, T4399 *Nelumbo nucifera*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4720 *Perilla frutescens* var. *arguta*, T4721 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T5687 *Salvia prionitis*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6775 *Viscum coloratum*, T6777 *Viscum multinerve*.

quiet heart T6522 *Trifolium repens*, T6919 *Ziziphus jujuba* var. *spinosa*.

quiet heart and quicken blood T5071 *Polygala arillata*.

quiet heart and settle epilepsy T3329 *Hyoscyamus niger*.

quiet heart and spirit T0561 *Arachis hypogaea*, T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6918 *Ziziphus jujuba* var. *spinosa*.

quiet roundworm T5228 *Prunus mume*.

quiet spirit T0295 *Albizia odoratissima*, T0463 *Anemone altaica*, T1171 *Canis familiaris*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3775 *Lethariella cladonioides*, T3950 *Lychnis fulgens*, T4243 *Millettia reticulata*, T4436 *Nitraria tangutorum*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T5423 *Rauvolfia verticillata*, T5425 *Rauvolfia*

- verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5465 *Rhaponticum carthamoides*, T5575 *Rosmarinus officinalis*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6656 *Ustilago maydis*, T6800 *Viverra zibetha*.
- quiet spirit and boost wits** T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- quiet spirit and calm** T0298 *Alectoria vivens*, T4248 *Mimosa pudica*.
- quiet spirit and relieve pain** T4665 *Passiflora edulis*.
- quiet spirit and resolve depression** T0292 *Albizia julibrissin*.
- quiet spirit and settle asthma** T4859 *Physochlaina physaloides*.
- quiet spirit and settle fright** T1804 *Cristaria plicata*; *Hyriopsis cumingii*.
- raise spirit** T1266 *Catha edulis*, T1615 *Cola acuminata*, T6423 *Theobroma cacao*.
- rectify qi** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T1483 *Citrus grandis* var. *tomentosa*, T3283 *Hosta sieboldiana*, T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*], T3877 *Litchi chinensis*, T4190 *Mentha spicata*, T4526 *Origanum vulgare*, T6801 *Vladimiria denticulata*.
- rectify qi and dispel wind** T5139 *Poncirus trifoliata*.
- rectify qi and disperse accumulation** T3006 *Glycosmis citrifolia*.
- rectify qi and disperse cold** T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*].
- rectify qi and disperse food** T4714 *Perilla frutescens*, T5183 *Potentilla griffithii* var. *velutina*, T6356 *Tetrapanax papyriferus*.
- rectify qi and disperse food with relieving pain** T6789 *Vitex negundo*.
- rectify qi and disperse swelling** T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*].
- rectify qi and dissipate cold** T4439 *Nothapodytes pittosporoides*.
- rectify qi and dissipate stasis** T4349 *Myrica rubra*.
- rectify qi and downbear counterflow** T1498 *Citrus medica*, T1506 *Citrus reticulata*, T1520 *Citrus wilsonii*.
- rectify qi and eliminate damp** T4042 *Magnolia liliflora*.
- rectify qi and fortify spleen** T5385 *Quisqualis indica*.
- rectify qi and harmonize blood** T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T3077 *Gymnadenia conopsea*.
- rectify qi and harmonize stomach** T1476 *Citrus erythrosa*, T1493 *Citrus limon*, T1497 *Citrus limonia*, T1515 *Citrus tangemna*, T2340 *Elsholtzia bodinieri*, T2744 *Foeniculum vulgare*, T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbiferum*], T5715 *Santalum album*.
- rectify qi and loosen chest** T0313 *Allium chinense*, T0316 *Allium macrostemon*.
- rectify qi and open depression** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*].
- rectify qi and promote digestion** T1217 *Carum carvi*, T6602 *Umblicaria hypococcinea*.
- rectify qi and quicken blood** T2521 *Eucalyptus tereticornis*, T2563 *Eupatorium japonicum*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T4530 *Ormosia hosiei*, T5795 *Schisandra micrantha*, T6877 *Zanthoxylum dissitum*.
- rectify qi and regulate center** T1889 *Cuminum cyminum*.
- rectify qi and regulate menstruation** T4385 *Narcissus tazetta* var. *chinensis*.
- rectify qi and relieve pain** T0130 *Aconitum sinomontanum*, T0491 *Angelica polymorpha*, T0641 *Aristolochia tuberosa*, T1163 *Campylotropis hirtella*, T1487 *Citrus junos*, T1501 *Citrus medica* var. *sarcodactylis*, T1504 *Citrus reticulata*, T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1735 *Corydalis repens*, T1928 *Cycas revoluta*, T1932 *Cyclea racemosa*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2205 *Dioscorea panthaica*, T2529 *Euchresta strigillosa*, T3409 *Illicium verum*, T3557 *Jasminum sambac*, T3876 *Litchi chinensis*, T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*, T4763 *Peucedanum morisonii*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*], T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6527 *Trigonella caerulea*, T6787 *Vitex negundo*.
- rectify qi and remove damp** T5122 *Polygonum viscosum*.
- rectify qi and resolve depression** T2758 *Fortunella crassifolia*, T2759 *Fortunella japonica*, T2760 *Fortunella margarita*.
- rectify qi and stanch bleeding** T1673 *Corchorus capsularis*.
- rectify qi and transform damp** T0680 *Artemisia lactiflora*, T4397 *Nelumbo nucifera*.
- rectify qi and transform phlegm** T1660 *Coprinus atramentarius*, T2510 *Eucalyptus globulus*, T3742 *Lentinus edodes*, T3840 *Limnophila rugosa*, T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- reduce phlegm** T6819 *Wikstroemia chamaedaphne*.
- reduce urine** T0360 *Alpinia oxyphylla*, T2961 *Ginkgo biloba*, T4548 *Oryza sativa* var. *glutinosa*.
- regulate center** T0357 *Alpinia japonica*, T1247 *Cassia sophera*.
- regulate center and increase appetite** T1506 *Citrus reticulata*, T6902 *Zea mays*.
- regulate digestive system** T1341 *Cetraria islandica*.
- regulate function among herbs** T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*.
- regulate menstruation** T0301 *Aleuritopteris argentea*, T0969 *Boerhavia diffusa*, T1143 *Calystegia hederacea*, T1682 *Cordyceps ophioglossoides*, T2736 *Fissistigma polyanthum*, T3240 *Hibiscus esculentus*, T3997 *Lysimachia capillipes*, T5523 *Rhododendron simsii*, T5545 *Ribes fasciculatum* var. *chinense*, T5594 *Rubus parkeri*, T5953 *Silene firma*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6876 *Zanthoxylum dissitum*.
- regulate menstruation and check discharge** T4777 *Phalaris arundinacea*.
- regulate menstruation and free milk** T3361 *Hypericum perforatum*.
- regulate menstruation and promote pregnancy** T3615 *Kadsura interior*.
- regulate menstruation and quicken blood** T5498 *Rhodiola quadrifida*.
- regulate menstruation and relieve pain** T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T1978 *Cyperus rotundus*, T5515 *Rhododendron micranthum*, T5661 *Salvia bowleyana*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- regulate menstruation and stanch bleeding** T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T2614 *Euphorbia pulcherrima*, T2826 *Galeola faberi*, T3349 *Hypericum erectum*, T5753 *Saussurea gnaphaloides*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6749 *Vicia hirsuta*.

- regulate qi** T1469 *Citrus aurantium* var. *amara*.
- regulate qi and relieve pain** T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T2536 *Euonymus alatus*.
- regulate qi and resolve depression** T3431 *Inula helenium*, T3437 *Inula racemosa*.
- regulate thoroughfare and controlling vessels** T1337 *Cervus nippon*; *Cervus elaphus*.
- relax tension and relieve pain** T0540 *Apis cerana*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*.
- relieve constipation** T5606 *Rumex acetosa*.
- relieve cough** T0444 *Ananas comosus*, T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*], T1312 *Centipeda minima*, T1675 *Corchorus olitorius*, T1960 *Cynanchum stauntonii*, T1969 *Cynoglossum officinale*, T2101 *Dendrobium fimbriatum*, T3143 *Helianthus annuus*, T3380 *Hyptis pectinata*, T3457 *Iris dichotoma*, T3567 *Juglans regia*, T3765 *Lepisorus ussuriensis*, T3779 *Leucas aspera*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4004 *Lysimachia paridiformis*, T4036 *Magnolia coco*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4209 *Michelia alba*, T4368 *Nandina domestica*, T4908 *Pinus bungeana*, T5087 *Polygala telephoides*, T5375 *Quercus mongolica*, T5502 *Rhododendron anthopogonoides*, T5508 *Rhododendron dauricum*, T5518 *Rhododendron mucronatum*, T5522 *Rhododendron seniavinii*, T5523 *Rhododendron simsii*, T5594 *Rubus parkeri*, T5609 *Rumex hastatus*, T5836 *Scutellaria discolor*, T5859 *Selaginella braunii*, T5862 *Selaginella involvens*, T5943 *Sida cordifolia*, T6750 *Vicia sativa*, T6772 *Viscum angulatum*, T6787 *Vitex negundo*.
- relieve cough and asthma** T0707 *Arthraxon hispidus*, T0985 *Bos taurus domesticus*; *Bubalus bubalis*, T6581 *Tylophora mollissima*.
- relieve cough and calm asthma** T0364 *Alsophila spinulosa*, T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*, T0926 *Berneuxia thibetica*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1819 *Crotalaria ferruginea*, T1941 *Cymbopogon distans*, T1943 *Cymbopogon goeringii*, T2749 *Fomes officinalis*, T3056 *Gossypium herbaceum*, T3077 *Gymnadenia conopsea*, T3221 *Heracleum rapula*, T3928 *Lotus corniculatus*, T4003 *Lysimachia microcarpa*, T4120 *Marsdenia tenacissima*, T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4688 *Peganum harmala*, T4858 *Physochlaina infundibularis*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5145 *Populus alba*, T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*, T5548 *Ricinus communis*, T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*], T6789 *Vitex negundo*, T6825 *Winchia calophylla*.
- relieve cough and dispel phlegm** T0374 *Alstonia scholaris*, T0729 *Asarum maximum*, T0781 *Aster tataricus*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1786 *Cremanthodium ellisii*, T2023 *Daphne genkwa*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2517 *Eucalyptus robusta*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3758 *Lepidium sativum*, T3770 *Lespedeza cuneata*, T4203 *Mesua ferrea*, T4358 *Myroxylon pereirae*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4902 *Pimpinella thelungiana*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5457 *Rhamnusa davurica*, T5504 *Rhododendron capitatum*, T6428 *Thermopsis lanceolata*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6653 *Usnea diffracta*, T6654 *Usnea longissima*.
- relieve cough and free strangury** T5647 *Sagittaria sagittifolia*.
- relieve cough and kill worms** T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*.
- relieve cough and settle asthma** T0923 *Bergenia crassifolia*, T2220 *Diospyros kaki*.
- relieve cough and transform phlegm** T0015 *Abutilon indicum*, T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T0263 *Ajuga decumbens*, T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T1493 *Citrus limon*, T1497 *Citrus limonia*, T2050 *Daucus carota* var. *sativa*, T2262 *Dregea sinensis*, T2432 *Eriobotrya japonica*, T2589 *Euphorbia helioscopia*, T2738 *Flemingia strobilifera*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2787 *Fritillaria hupehensis*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2797 *Fritillaria ussuriensis*, T2895 *Gaultheria yunnanensis*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3628 *Kerria japonica*, T3749 *Leontopodium alpinum*, T3810 *Ligularia nelumbifolia*, T4000 *Lysimachia congestiflora*, T4005 *Lysionotus pauciflorus*, T4438 *Nostoc flagelliforme*, T4834 *Phyllanthus emblica*, T5072 *Polygala caudata*, T5161 *Populus tomentosa*, T5184 *Potentilla kleiniana*, T5515 *Rhododendron micranthum*, T5519 *Rhododendron mucronulatum*, T5521 *Rhododendron przewalskii*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T5637 *Sabia schumanniana*, T6278 *Tagetes erecta*, T6574 *Tussilago farfara*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*, T6910 *Zingiber officinale*.
- relieve headache** T3246 *Hibiscus syriacus*.
- relieve itch** T0750 *Asparagus gobicus*, T1650 *Convolvulus arvensis*, T1777 *Crataegus pinnatifida*, T1867 *Cryptomeria fortunei*, T2049 *Daucus carota*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*], T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T3342 *Hypericum bellum*, T3569 *Juglans regia*, T3851 *Lindera glauca*, T4102 *Mangifera indica*, T4828 *Photinia serrulata*, T5098 *Polygonum aviculare*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*], T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6499 *Tribulus terrestris*.
- relieve pain** T0065 *Achillea millefolium*, T0086 *Aconitum chasmanthum*, T0090 *Aconitum delavayi*, T0107 *Aconitum kongboense*, T0125 *Aconitum pseudostaphianum*, T0157 *Actinidia callosa* var. *henryi*, T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T0229 *Ageratum conyzoides*, T0356 *Alpinia galanga*, T0359 *Alpinia officinarum*, T0471 *Anemone rivularis*, T0495 *Angelica sinensis*,

- T0539 *Apis cerana*, T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*], T0634 *Aristolochia mollissima*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0724 *Asarum caulescens*, T0727 *Asarum fukienense*, T0729 *Asarum maximum*, T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0886 *Beaumontia grandiflora*, T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1262 *Catalpa ovata*, T1327 *Ceratostigma minus*, T1416 *Cicuta virosa*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1452 *Cissampelos pareira*, T1453 *Cissampelos pareira* var. *hirsute*, T1508 *Citrus sinensis*, T1525 *Cladonia fallax*, T1541 *Claviceps purpurea*, T1577 *Clitoria ternatea*, T1592 *Cocos nucifera*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1650 *Convolvulus arvensis*, T1705 *Corydalis adunca*, T1719 *Corydalis incisa*, T1727 *Corydalis mucronifera*, T1746 *Corydalis taliensis*, T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], T1955 *Cynanchum hancockianum*, T2036 *Datura innoxia*, T2039 *Datura innoxia*, T2041 *Datura metel*, T2043 *Datura metel*, T2046 *Datura stramonium*, T2047 *Datura stramonium*, T2077 *Delphinium grandiflorum*, T2091 *Delphinium yunnanense*, T2130 *Desmodium gangeticum*, T2263 *Dregea volubilis*, T2546 *Euonymus sacrosancta*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T2746 *Foeniculum vulgare*, T3077 *Gymnadenia conopsea*, T3356 *Hypericum japonicum*, T3457 *Iris dichotoma*, T3560 *Jatropha curcas*, T3567 *Juglans regia*, T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3620 *Kaempferia galanga*, T3670 *Lagerstroemia indica*, T3797 *Libanotis condensata*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3809 *Ligularia lapathifolia*, T3813 *Ligularia sibirica*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T3868 *Liquidambar orientalis*, T3877 *Litchi chinensis*, T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*], T4002 *Lysimachia foenum-graecum*, T4020 *Macleaya cordata*, T4145 *Meconopsis punicea*, T4163 *Melia toosendan*, T4264 *Momordica cochinchinensis*, T4267 *Monachosorum flagellare*, T4268 *Monachosorum henryi*, T4343 *Myrica esculent*, T4349 *Myrica rubra*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4551 *Osmorhiza aristata* var. *laxa*, T4635 *Papaver somniferum*, T4637 *Papaver somniferum*, T4662 *Parthenocissus tricuspidata*, T4804 *Phlojodicarpus sibiricus*, T4951 *Piper laetispicum*, T5142 *Poncirus trifoliata*, T5268 *Psidium guajava*, T5415 *Ranunculus sceleratus*, T5572 *Rosa rugosa*, T5575 *Rosmarinus officinalis*, T5651 *Salix babylonica*, T5690 *Salvia roborowskii*, T5720 *Sapindus mukorossi*, T5767 *Saussurea pulchella*, T5883 *Senecio cannabifolius*, T5963 *Sinodielsia yunnanensis*, T6009 *Solanum pseudo-capsicum*, T6018 *Solanum verbascifolium*, T6069 *Speranskia tuberculata*, T6100 *Stauntonia hexaphylla*, T6128 *Stephania hernandifolia*, T6177 *Strychnos ignatii*, T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6494 *Trema dielsiana*, T6528 *Trigonella foenum-graecum*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6548 *Tritonia crocosmaeflora*, T6578 *Tylophora atrofolliculata*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], T6731 *Veronicastrum sibiricum*, T6800 *Viverra zibetha*, T6801 *Vladimiria denticulata*, T6860 *Zanthoxylum ailanthoides*, T6864 *Zanthoxylum armatum*, T6872 *Zanthoxylum cuspidatum*, T6887 *Zanthoxylum planispinum*.
- Relieve pain** T3106 *Harpagophytum procumbens*.
- relieve pain and check tetany** T5934 *Seseli meirei*, T5937 *Seseli yunnanense*.
- relieve pain and disperse swelling** T3548 *Ixeris sonchifolia*.
- relieve pain and draw out pus** T2038 *Datura innoxia*, T2042 *Datura metel*.
- relieve pain and itch** T0610 *Argemone mexicana*, T1959 *Cynanchum paniculatum*.
- relieve pain and quiet fetus** T3431 *Inula helenium*, T3437 *Inula racemosa*.
- relieve pain and settle tetany** T2037 *Datura innoxia*, T2044 *Datura metel*.
- relieve pain due to impediment** T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0990 *Bos taurus domesticus*; *Bubalus bubalis*, T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T4950 *Piper kadsura* [Syn. *Piper futokadsura*], T5638 *Sabia swinhoei*.
- relieve stuffed nose** T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*.
- repel foulness** T2554 *Eupatorium cannabinum*.
- repel foulness and harmonize center** T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*.
- repel foulness and open depression** T3557 *Jasminum sambac*.
- replenish essence** T1170 *Canis familiaris*.
- resolve binds** T1504 *Citrus reticulata*, T3877 *Litchi chinensis*.
- resolve depression** T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4688 *Peganum harmala*.
- resolve depression and quiet heart** T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*].
- resolve dog toxin** T1958 *Cynanchum otophyllum*.
- resolve epidemic toxin** T4029 *Maesa japonica*.
- resolve exterior** T0310 *Allium ascalonicum*, T0319 *Allium schoenoprasum*, T1941 *Cymbopogon distans*, T3779 *Leucas aspera*, T4002 *Lysimachia foenum-graecum*, T4190 *Mentha spicata*, T4335 *Mussaenda pubescens*, T4526 *Origanum vulgare*, T5167 *Porana racemosa*, T5519 *Rhododendron mucronulatum*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T6787 *Vitex negundo*.
- resolve exterior and abate fever** T0557 *Aquilegia ecalcarata*, T5836 *Scutellaria discolor*.
- resolve exterior and allay fever** T0591 *Ardisia arborescens*.
- resolve exterior and clear heat** T6338 *Tephrosia purpurea*.
- resolve exterior and disinhibit damp** T3381 *Hyptis suaveolens*, T6749 *Vicia hirsuta*.
- resolve exterior and outthrust papules** T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*].
- resolve heat** T0158 *Actinidia chinensis*, T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T3106 *Harpagophytum procumbens*, T4785 *Phaseolus vulgaris*, T3380 *Hyptis pectinata*, T5272 *Psorospermum*

febrifugum.

resolve heat toxin T0154 *Acroptilon repens*, T0902 *Berberis diaphana*, T1685 *Coreopsis lanceolata*, T3827 *Ligustrum japonicum*, T4254 *Miscanthus sinensis*, T5102 *Polygonum cuspidatum*.

resolve liquor T1486 *Citrus junos*, T1937 *Cydonia oblonga*, T3285 *Hovenia dulcis*.

resolve liquor and arouse spleen T0713 *Artocarpus heterophyllus*, T1428 *Cinchona ledgeriana*, T1429 *Cinchona officinalis*, T1433 *Cinchona succirubra*.

resolve liquor jaundice T1758 *Cotinus coggygria*.

resolve liquor toxin T3286 *Hovenia dulcis*, T4573 *Pachyrrhizus erosus*, T5202 *Primula obconica*.

resolve snake toxin T1958 *Cynanchum otophyllum*, T2749 *Fomes officinalis*, T5723 *Sapium sebiferum*.

resolve sore toxin T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T2718 *Ficus carica*, T4101 *Mangifera indica*, T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*], T5523 *Rhododendron simsii*.

resolve spasm T4518 *Oppopanax chironium*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*].

resolve spasm and relieve pain T0501 *Anisodus luridus*, T0825 *Atropa belladonna*, T3329 *Hyoscyamus niger*, T5247 *Przewalskia tangutica*.

resolve summerheat T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T1137 *Caltha palustris*.

resolve summerheat and engender liquid T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*].

resolve summerheat and transform damp T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*.

resolve tetany and disperse swelling T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].

resolve tetany and settle pain T5821 *Scopolia japonica*.

resolve toxin T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0174 *Adiantum monochlamys*, T0249 *Agrimonia pilosa* var. *japonica*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0310 *Allium ascalonicum*, T0314 *Allium fistulosum*, T0318 *Allium sativum*, T0322 *Allium tuberosum*, T0324 *Allium victorialis*, T0371 *Alstonia mairei*, T0379 *Alternanthera philoxeroides*, T0444 *Ananas comosus*, T0463 *Anemone altaica*, T0535 *Antidesma bunius*, T0540 *Apis cerana*, T0542 *Apis cerana*, T0544 *Apium graveolens*, T0567 *Aralia armata*, T0598 *Ardisia japonica*, T0678 *Artemisia japonica*, T0705 *Artemisia vestita*, T0726 *Asarum forbesii*, T0834 *Averrhoa carambola*, T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T0888 *Beesia calthaeifolia*, T0897 *Berberis amurensis*, T0932 *Betula luminifera*, T0947 *Bixa orellana*, T0950 *Blatta orientalis*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T0982 *Bos taurus domesticus*, T0989 *Bos taurus domesticus*; *Bubalus bubalis*, T1045 *Bubalus bubalis*, T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1097 *Cacalia ainsliaeflora*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1165 *Canarium album*, T1171 *Canis familiaris*, T1172 *Canna edulis*, T1182 *Capra hircus*; *Ovis aries*, T1188 *Caragana chamlagu*, T1194 *Carassius auratus*, T1206 *Carica papaya*, T1210 *Carpesium abrotanoides*, T1239 *Cassia nodosa*, T1242 *Cassia occidentalis*, T1266 *Catha edulis*, T1271 *Catharanthus roseus* [Syn.

Vinca rosea; *Lochera rosea*], T1278 *Cedrela sinensis*, T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*], T1353 *Changium smyrnioides*, T1371 *Chloranthus japonicus*, T1381 *Choerospondias axillaris*, T1437 *Cinnamomum camphora*, T1570 *Clerodendrum thomsonae*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1831 *Crotalaria sessiliflora*, T1867 *Cryptomeria fortunei*, T1878 *Cucumis sativus*, T1963 *Cynanchum wallichii*, T1964 *Cynanchum wilfordii* [Syn. *Cynoconum wilfordii*], T2024 *Daphne genkwa*, T2027 *Daphne odora*, T2092 *Delphinus delphis*, T2130 *Desmodium gangeticum*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2181 *Dillenia indica*, T2216 *Diospyros ebenum*, T2221 *Diospyros kaki*, T2267 *Drosera peltata* var. *lunata*, T2327 *Elaeagnus angustifolia*, T2334 *Elephantopus scaber*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumin*; *Myrtus cumini*], T2563 *Eupatorium japonicum*, T2601 *Euphorbia milii*, T2612 *Euphorbia prolifera*, T2624 *Euphorbia tirucalli*, T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*], T2649 *Evolvulus alsinoides*, T2830 *Galium aparine*, T2941 *Gentianopsis paludosa*, T3003 *Glycine max*, T3040 *Gomphrena globosa*, T3082 *Gynocardia odorata*, T3085 *Gynostemma pentaphyllum*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3162 *Helicia nilagirica*, T3242 *Hibiscus rosa-sinensis*, T3243 *Hibiscus rosa-sinensis*, T3246 *Hibiscus syriacus*, T3356 *Hypericum japonicum*, T3360 *Hypericum patulum*, T3410 *Impatiens balsamina*, T3420 *Incarvillea sinensis*, T3432 *Inula helianthus-aquatica*, T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*], T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3555 *Jasminum nudiflorum*, T3567 *Juglans regia*, T3569 *Juglans regia*, T3628 *Kerria japonica*, T3649 *Laccifer lacca*, T3673 *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*], T3674 *Laggera alata*, T3685 *Lansea grandis* [Syn. *Lansea coromandelica*], T3726 *Laurus nobilis*, T3742 *Lentinus edodes*, T3815 *Ligularia stenocephala*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3886 *Litsea euosma*, T3969 *Lycopodium casuarinoides*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T3988 *Lycoris squamigera*, T3997 *Lysimachia capillipes*, T4004 *Lysimachia paridiformis*, T4020 *Macleaya cordata*, T4055 *Mahonia bealei*, T4056 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4063 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4067 *Mahonia japonica*, T4072 *Mahonia shenii*, T4080 *Mallotus apelta*, T4178 *Melodinus hemsleyanus*, T4188 *Mentha rotundifolia*, T4206 *Metaplexis japonica*, T4225 *Microsorium punctatum*, T4263 *Momordica charantia*, T4264 *Momordica cochinchinensis*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4335 *Mussaenda pubescens*, T4368 *Nandina domestica*, T4370 *Nandina domestica*, T4388 *Nasturtium officinale*, T4478 *Octopus vulgaris*, T4500 *Onosma paniculatum*, T4544 *Oryza sativa*, T4548 *Oryza sativa* var. *glutinosa*, T4618 *Panicum miliaceum*, T4799 *Philydrum lanuginosum*, T4814 *Phlomis umbrosa*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4834 *Phyllanthus emblica*, T4848 *Physalis angulata*, T4979 *Pistacia chinensis*, T4983 *Pisum sativum*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5087 *Polygala telephoides*, T5090 *Polygala wattersii*, T5097 *Polygonum amphibium*, T5101 *Polygonum cuspidatum*, T5103 *Polygonum hydropiper*, T5104 *Polygonum hydropiper*, T5105 *Polygonum*

hydropiper var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5107 *Polygonum multiflorum*, T5120 *Polygonum tinctorium*, T5157 *Populus pseudo-simonii*, T5167 *Porana racemosa*, T5174 *Portulaca pilosa*, T5193 *Pratia nummularia*, T5217 *Prunus armeniaca*, T5220 *Prunus davidiana*, T5221 *Prunus davidiana*, T5232 *Prunus persica*, T5235 *Prunus persica*, T5272 *Psorospermum febrifugum*, T5411 *Randia spinosa*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T5537 *Rhus sylvestris*, T5563 *Rosa cymosa*, T5606 *Rumex acetosa*, T5626 *Ruta graveolens*, T5642 *Saccharum sinensis*, T5721 *Sapindus mukorossi*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T5857 *Sedum sarmentosum*, T5862 *Selaginella involvens*, T5870 *Selaginella uncinata*, T5938 *Setaria italica*, T5977 *Smilax glabra*, T5978 *Smilax glauco-china*, T5980 *Smilax menispermoides*, T6039 *Sophora moorcroftiana*, T6048 *Sophora viciifolia*, T6177 *Strychnos ignatii*, T6359 *Teucrium bidentatum*, T6372 *Thalictrum acutifolium*, T6373 *Thalictrum alpinum*, T6381 *Thalictrum faberi*, T6386 *Thalictrum foetidum*, T6388 *Thalictrum fortunei*, T6403 *Thalictrum petaloideum*, T6410 *Thalictrum smithii*, T6431 *Thesium chinense*, T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6492 *Trapa bispinosa*, T6548 *Tritonia crocosmaeflora*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6673 *Vaccinium vitis-idaea*, T6709 *Verbena officinalis*, T6713 *Vernonia anthelmintica*, T6728 *Veronica serpyllifolia*, T6799 *Vitis vinifera*, T6820 *Wikstroemia indica*, T6827 *Wisteria sinensis*, T6831 *Woodwardia orientalis*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*, T6912 *Zinnia elegans*.

resolve toxin and close sores T2188 *Dioscorea alata*, T2658 *Fagopyrum esculentum*, T4109 *Marchantia polymorpha*, T4487 *Olea europaea*, T5308 *Pterocarya stenoptera*, T5395 *Rabdosia nervosa*, T6746 *Vicia faba*.

resolve toxin and cure sores T0976 *Bombyx mori*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1962 *Cynanchum versicolor*, T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, T2952 *Gerbera piloselloides*, T3851 *Lindera glauca*, T5010 *Platycarya strobilacea*, T6439 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6582 *Tylophora ovata*.

resolve toxin and disinhibit damp T1819 *Crotalaria ferruginea*, T4000 *Lysimachia congestiflora*, T4656 *Parmelia saxatilis*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T6075 *Spilanthes acmella*, T6488 *Trachyspermum ammi*, T6526 *Triglochin maritimum*, T6788 *Vitex negundo*.

resolve toxin and disinhibit throat T0586 *Arctium lappa*, T0975 *Bombyx mori*, T5449 *Reineckea carnea*.

resolve toxin and disperse swelling T0001 *Abelmoschus manihot*, T0015 *Abutilon indicum*, T0047 *Acanthus ebracteatus*, T0069 *Achillea wilsoniana*, T0098 *Aconitum geniculatum*, T0156 *Actinidia arguta*, T0161 *Actinidia eriantha*, T0226 *Agave sisalana*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0571 *Aralia decaisneana*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0852 *Bacopa monniera*, T0871 *Barleria lupulina*, T0922 *Berchemia polyphylla* var. *leioclada*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0959 *Blumea lacera*, T0977 *Bombyx*

mori, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1001 *Brachystemma calycinum*, T1021 *Brassica rapa*, T1100 *Caesalpinia crista*, T1241 *Cassia occidentalis*, T1256 *Castanea mollissima*, T1275 *Cayratia japonica*, T1286 *Celastrus flagellaris*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1311 *Centella asiatica*, T1359 *Chenopodium album*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1450 *Cirsium lineare*, T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1561 *Clerodendron serratum*, T1565 *Clerodendrum bungei*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1573 *Clinopodium chinense*, T1660 *Coprinus atramentarius*, T1813 *Crotalaria albida*, T1880 *Cucurbita moschata*, T1884 *Cudrania cochinchinensis*, T1928 *Cycas revoluta*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2205 *Dioscorea panthaica*, T2213 *Dioscorea zingiberensis*, T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T2336 *Elephas maximus*, T2348 *Embelia ribes*, T2365 *Enteromorpha clathrata*, T2435 *Eriocheir sinensis*, T2442 *Ervatamia divaricata*, T2536 *Euonymus alatus*, T2586 *Euphorbia esula* var. *cyparissoides*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2717 *Ficus carica*, T2723 *Ficus pumila*, T2753 *Formica fusca*, T2946 *Geranium robertianum*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T2998 *Glycine max*, T3080 *Gymnema sylvestre*, T3163 *Helicteres angustifolia*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3248 *Hibiscus tiliaceus*, T3311 *Hydrocotyle sibthorpioides*, T3349 *Hypericum erectum*, T3479 *Isodon amethystoides*, T3680 *Lamium amplexicaule*, T3687 *Lantana camara*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3830 *Ligustrum sinense*, T3847 *Lindera angustifolia*, T3865 *Lippia nodiflora*, T3882 *Lithospermum officinale*, T3932 *Ludwigia octovalvis*, T3983 *Lycoris aurea*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4104 *Manihot esculenta*, T4131 *Maytenus confertiflorus*, T4203 *Mesua ferrea*, T4261 *Mollugo pentaphylla*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4470 *Ocimum basilicum*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T4549 *Osbeckia chinensis*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4577 *Paederia scandens*, T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T4704 *Peperomia duclouxii*, T4813 *Phlomis tuberosa*, T4937 *Piper betle*, T4956 *Piper mullesua*, T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*], T5029 *Plumbago zeylanica*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5111 *Polygonum perfoliatum*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5295 *Pteris multifida*, T5375 *Quercus mongolica*, T5401 *Rabdosia yunnanensis*, T5562 *Rosa chinensis*, T5701 *Salvia yunnanensis*, T5750 *Saururus chinensis*, T5806 *Schlumbergera truncata*, T5813 *Scilla scilloides*, T5844 *Scutellaria scordifolia*, T5851 *Sedum alfredii* [Syn. *Sedum formosanum*], T5942 *Sida acuta*, T6017 *Solanum tuberosum*, T6023 *Solidago virgaurea*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6060 *Souliea vaginata*, T6080 *Spiraea japonica*, T6095 *Stachytarpheta jamaicensis*, T6101 *Stauntonia*

- hexaphylla*, T6127 *Stephania glabra*, T6183 *Strychnos nitida*, T6264 *Syzygium buxifolium*, T6429 *Thermopsis lupinoides*, T6444 *Thunbergia grandiflora*, T6580 *Tylophora floribunda*, T6744 *Vicia faba*, T6834 *Wrightia tomentosa*, T6883 *Zanthoxylum myriacanthum*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].
- resolve toxin and disperse welling abscess** T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*].
- resolve toxin and dissipate binds** T0382 *Althaea rosea*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1826 *Crotalaria mucronata*, T2028 *Daphne odora*, T2787 *Fritillaria hupehensis*, T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3632 *Knoxia valerianoides*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4186 *Mentha piperita*, T4835 *Phyllanthus emblica*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*], T5647 *Sagittaria sagittifolia*, T5817 *Scolopendra subspinipes mutilans*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*, T5975 *Smilax bockii*, T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*].
- resolve toxin and draw out pus** T0215 *Agave americana*.
- resolve toxin and eliminate damp** T2325 *Eichhornia crassipes*, T5339 *Pycnoporus sanguineus*, T5413 *Ranunculus cantoniensis*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*].
- resolve toxin and eliminate inflammation** T1869 *Cryptotaenia japonica*, T6808 *Waltheria americana*.
- resolve toxin and eliminate welling abscess** T3980 *Lycopus lucidus*, T5604 *Rudbeckia laciniata*, T5943 *Sida cordifolia*, T5976 *Smilax china* [Syn. *Smilax japonica*].
- resolve toxin and engender flesh** T2337 *Elephas maximus*, T4578 *Paederia scandens*.
- resolve toxin and interrupt malaria** T1039 *Bruguiera gymnorhiza*.
- resolve toxin and kill worms** T0250 *Agrimonia pilosa* var. *japonica*, T0311 *Allium cepa*, T0468 *Anemone hupehensis*, T0500 *Anguilla japonica*, T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T1046 *Buddleja davidii*, T1205 *Carica papaya*, T1285 *Celastrus angulatus*, T1372 *Chloranthus serratus*, T1719 *Corydalis incisa*, T1733 *Corydalis racemosa*, T2023 *Daphne genkwa*, T2521 *Eucalyptus tereticornis*, T2589 *Euphorbia helioscopia*, T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*, T2999 *Glycine max*, T3057 *Gossypium herbaceum*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T4247 *Millingtonia hortensis*, T4358 *Myroxyton pereirae*, T4428 *Nicotiana tabacum*, T4830 *Phryma leptostachya*, T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5143 *Pongamia pinnata*, T5298 *Pteris vittata*, T5330 *Punica granatum*, T5384 *Quisqualis indica*, T5385 *Quisqualis indica*, T5391 *Rabdosia ericalyx*, T5428 *Rauvolfia yunnanensis*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T5724 *Sapium sebiferum*, T6540 *Tripterygium hypoglaucum*, T6541 *Tripterygium regelii*, T6542 *Tripterygium wilfordii*, 6764 Vinegar.
- resolve toxin and outthrust papules** T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T3881 *Lithospermum erythrorhizon*, T6145 *Stichopus japonicus*.
- resolve toxin and relieve itch** T1373 *Chloranthus serratus*, T2505 *Eucalyptus citriodora*, T3371 *Hypocrella bambusae*, T4307 *Mosla scabra* [Syn. *Mosla punctata*].
- resolve toxin and relieve pain** T0730 *Asarum sagittarioides*, T2538 *Euonymus bungeanus*.
- resolve toxin and repel foulness** T4385 *Narcissus tazetta* var. *chinensis*.
- resolve toxin and settle pain** T4506 *Ophioglossum vulgatum*, T6588 *Typhonium giganteum*.
- resolve toxin and transform damp** T1546 *Clematis tangutica*.
- resolve toxin of fish and crab** T1486 *Citrus junos*, T4714 *Perilla frutescens*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- resolve toxin of fish and meat** T0472 *Anethum graveolens*.
- restore pulse and stem desertion** T4599 *Panax ginseng* [Syn. *Panax schinseng*].
- return fire to its source** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- return yang and free vessels** T6909 *Zingiber officinale*.
- return yang and treat collapse** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.
- rough essence** T0977 *Bombyx mori*.
- rough essence and arrest emission** T2838 *Gallus gallus domesticus*.
- rough essence and stem desertion** T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*].
- secure essence** T0360 *Alpinia oxyphylla*, T4401 *Nelumbo nucifera*, T5244 *Prunus tomentosa*.
- secure essence and reduce urine** T5569 *Rosa multiflora*.
- secure essence and reduce urine** T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T5568 *Rosa laevigata*, T5593 *Rubus idaeus*.
- secure essence qi** T6670 *Vaccinium bracteatum*.
- secure qi and rough essence** T5374 *Quercus infectoria*.
- secure teeth** T6498 *Tribulus terrestris*.
- settle asthma** T1176 *Cannabis sativa*, T5414 *Ranunculus japonicus*, T5517 *Rhododendron molle*.
- settle fright** T1045 *Bubalus bubalis*, T2091 *Delphinium yunnanense*, T5289 *Pteris dactylina*, T5299 *Pteris wallichiana*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T6145 *Stichopus japonicus*.
- settle fright epilepsy** T0088 *Aconitum coreanum*.
- settle pain** T0096 *Aconitum forrestii* [Syn. *Aconitum likiangense*], T0183 *Adlumia cirrhosa* [Syn. *Adlumia fungosa*], T0542 *Apis cerana*, T1328 *Ceratostigma plumbaginoides*, T1329 *Ceratostigma willmottianum*, T2092 *Delphinus delphis*, T2154 *Dicentra spectabilis*, T2420 *Ericerus pela*, T2495 *Eschscholzia californica*, T3594 *Juniperus rigida*, T4418 *Nerium indicum*, T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4631 *Papaver nudicaule* var. *chinense*, T5202 *Primula obconica*, T5414 *Ranunculus japonicus*, T6028 *Sophora alopecuroides*, T6132 *Stephania sasakii*, T6889 *Zanthoxylum podocarpum*.
- settle pain and calm** T1716 *Corydalis gigantea*.
- settle pain and relieve cough** T1357 *Chelidonium majus*.
- settle pain and resolve tetany** T3328 *Hyoscyamus niger*.
- settle pain and suppress cough** T2968 *Glaucium fimbriigerum*.

- settle tetany** T6457 *Tilia japonica*, T6458 *Tilia miqueliana*.
- soften hardness** T1385 *Chorda filum*, T5740 *Sargassum vachellianum*.
- soften hardness and disperse swelling** T4555 *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*.
- soften hardness and dissipate binds** T0275 *Akebia quinata*, T0847 *Baccharis indica* [Syn. *Pluchea indica*], T2321 *Ecklonia kurome*, T2359 *Endarachne binghamiae*, T2365 *Enteromorpha clathrata*, T3678 *Laminaria japonica*, T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], T6640 *Undaria pinnatifida*, T6925 *Zostera marina*.
- soften hardness and transform phlegm** T5309 *Pterocladia tenuis*.
- soothe channels and network vessels** T6689 *Ventilago leiocarpa*.
- soothe channels and quicken blood** T4018 *Machilus thunbergii*.
- soothe channels and quicken network vessels** T4238 *Milletia nitida*, T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- soothe depressed liver qi** T2761 *Fortunella margarita*.
- soothe liver** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T1469 *Citrus aurantium* var. *amara*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T4163 *Melia toosendan*, T5226 *Prunus mume*.
- soothe liver and disinhibit gallbladder** T1406 *Chrysosplenium nudicaule*.
- soothe liver and harmonize stomach** T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*.
- soothe liver and move qi** T2432 *Eriobotrya japonica*.
- soothe liver and quicken network vessels** T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*].
- soothe liver and resolve depression** T3554 *Jasminum grandiflorum*.
- soothe liver and upbear yang** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- soothe sinews and free network vessels** T3976 *Lycopodium obscurum*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*].
- soothe sinews and joint bones** T6540 *Tripterygium hypoglaucum*.
- soothe sinews and quicken blood** T0045 *Acanthopanax trifoliatum*, T0282 *Alangium kurzii*, T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*], T0964 *Boenninghausenia albiflora*, T1841 *Croton caudatus* var. *tomentosus*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*], T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3965 *Lycopodium annotinum*, T3969 *Lycopodium casuarinoides*, T3970 *Lycopodium cernuum*, T3971 *Lycopodium complanatum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4575 *Pachysandra terminalis*, T4975 *Piptanthus nanus*, T5100 *Polygonum chinense*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T6069 *Speranskia tuberculata*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.
- soothe sinews and quicken network vessels** T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T1922 *Cyanotis vaga*, T2211 *Dioscorea tenuipes*, T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2540 *Euonymus fortunei*, T2727 *Ficus simplicissima*, T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*], T3657 *Lactarius vellereus*, T4147 *Medicago falcata*, T4239 *Milletia nitida* var. *hirsutissima*, T5279 *Psychotria serpens*, T5298 *Pteris vittata*, T5638 *Sabia swinhoei*, T5860 *Selaginella davidii*, T6422 *Thelephora vialis*, T6468 *Tinospora sinensis*, T6830 *Woodfordia fruticosa*.
- soothe sinews and relieve pain** T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*.
- soothe stagnation and move qi** T1146 *Camellia oleifera*, T1492 *Citrus limon*, T1496 *Citrus limonia*.
- soothe wind and brighten eyes** T2409 *Equisetum palustre*.
- soothe wind and drain heat** T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*].
- soothe wind and rectify qi** T1533 *Clausena dentata*, T1534 *Clausena dunniana*.
- soothe wind and resolve exterior** T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*.
- stanch bleeding** T0156 *Actinidia arguta*, T0170 *Adhatoda vasica*, T0215 *Agave americana*, T0229 *Ageratum conyzoides*, T0324 *Allium victorialis*, T0328 *Alnus japonica*, T0371 *Alstonia mairei*, T0542 *Apis cerana*, T0544 *Apium graveolens*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0843 *Babylonia lutosa*, T0881 *Bauhinia variegata*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T0976 *Bombyx mori*, T0977 *Bombyx mori*, T0993 *Boschniakia rossica*, T1033 *Broussonetia papyrifera*, T1044 *Bryum argenteum*, T1087 *Buxus bodinieri*, T1171 *Canis familiaris*, T1174 *Cannabis sativa*, T1210 *Carpesium abrotanoides*, T1254 *Castanea mollissima*, T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*], T1452 *Cissampelos pareira*, T1453 *Cissampelos pareira* var. *hirsute*, T1592 *Cocos nucifera*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1682 *Cordyceps ophioglossoides*, T1866 *Cryptolepis sinensis*, T1969 *Cynoglossum officinale*, T1982 *Cyprinus carpio*, T1994 *Daemonorops draco*, T2157 *Dichotomanthes tristaniae* var. *carpa*, T2253 *Dracaena cochinchinensis*, T2327 *Elaeagnus angustifolia*, T2407 *Equisetum arvense*, T2420 *Ericerus pela*, T2426 *Erigeron sumatrensis*, T2567 *Eupatorium odoratum*, T2659 *Fagopyrum esculentum*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2825 *Galeobdolon chinense* [Syn. *Lamium chinense*], T2841 *Gallus gallus domesticus*, T2857 *Garcinia hanburyi*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3054 *Gossypium barbadense*, T3055 *Gossypium herbaceum*, T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3285 *Hovenia dulcis*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3324 *Hymenophyllum barbatum*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3560 *Jatropha curcas*, T3701 *Lasiosphaera fenlii*, T3764 *Lepisorus thunbergianus*, T3765 *Lepisorus ussuriensis*, T3769 *Lespedeza bicolor*, T3851 *Lindera glauca*, T3866 *Liquidambar formosana* [Syn.

- Liquidambar taiwaniana*], T3887 *Litsea glutinosa*, T3961 *Lycoperdon pyriforme*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4080 *Mallotus apelta*, T4101 *Mangifera indica*, T4121 *Marsilea quadrifolia*, T4126 *Matteuccia orientalis*, T4127 *Matteuccia struthiopteris*, T4178 *Melodinus hemsleyanus*, T4343 *Myrica esculent*, T4401 *Nelumbo nucifera*, T4494 *Onopordum acanthium*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4656 *Parmelia saxatilis*, T4705 *Peperomia pellucida*, T4787 *Phellinus igniarius*, T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*], T5043 *Podocarpus macrophyllus*, T5045 *Podocarpus macrophyllus* var. *maki*, T5099 *Polygonum bistorta*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5109 *Polygonum nodosum*, T5138 *Poncirus trifoliata*, T5185 *Potentilla multifida*, T5228 *Prunus mume*, T5250 *Psammosilene tunicoides*, T5265 *Psidium guajava*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5299 *Pteris wallichiana*, T5328 *Punica granatum*, T5332 *Punica granatum*, T5339 *Pycnopus sanguineus*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5372 *Quercus dentata*, T5374 *Quercus infectoria*, T5389 *Rabdosia coetsa*, T5411 *Randia spinosa*, T5419 *Raphanus sativus*, T5497 *Rhodiola kirilowii*, T5524 *Rhododendron simsii*, T5552 *Robinia pseudoacacia*, T5563 *Rosa cymosa*, T5579 *Rubia cordifolia*, T5587 *Rubus alceaefolius*, T5592 *Rubus hirsutus*, T5594 *Rubus parkeri*, T5609 *Rumex hastatus*, T5687 *Salvia prionitis*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5746 *Sassafras tzumu*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5850 *Sedum aizoon*, T5855 *Sedum kamtschaticum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5862 *Selaginella involvens*, T5863 *Selaginella moellendorffii*, T5866 *Selaginella sanguinolenta*, T5867 *Selaginella sinensis*, T5870 *Selaginella uncinata*, T5883 *Senecio cannabinifolius*, T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*], T6076 *Spinacia oleracea*, T6116 *Stenoloma chusanum*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6494 *Trema dielsiana*, T6533 *Trillium kamtschaticum*, T6535 *Trillium tschonoskii*, T6728 *Veronica serpyllifolia*, T6745 *Vicia faba*, T6746 *Vicia faba*, T6747 *Vicia faba*, T6750 *Vicia sativa*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.
- stanch bleeding and close sores** T2279 *Dryopteris championii*.
- stanch bleeding and disperse stasis** T2540 *Euonymus fortunei*, T3276 *Homo sapiens*.
- stanch bleeding and disperse swelling** T0374 *Alstonia scholaris*, T0378 *Alstonia yunnanensis*, T0661 *Artemisia anomala*, T1815 *Crotalaria assamica*, T4305 *Mosla dianthera*, T5614 *Rumex patientia*, T5840 *Scutellaria indica*.
- stanch bleeding and dissipate stasis** T1282 *Cedrus deodara*, T1928 *Cycas revoluta*, T1967 *Cynoglossum amabile*, T1986 *Cyrtomium fortunei*, T2435 *Eriocheir sinensis*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3842 *Limonium gmelinii*, T4118 *Marsdenia oreophila*, T4402 *Nelumbo nucifera*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T5104 *Polygonum hydropiper*, T5172 *Portulaca grandiflora*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6705 *Verbascum thapsus*, T6764 *Vinegar*.
- stanch bleeding and engender flesh** T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5468 *Rheum emodi* [Syn. *Rheum australe*], T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*.
- stanch bleeding and joint bones** T4346 *Myrica nagi* [Syn. *Podocarpus nagi*].
- stanch bleeding and kill worms** T2866 *Garcinia morella*, T4026 *Macrothelypteris oligophlebia*, T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- stanch bleeding and relieve pain** T0298 *Alectoria vivens*, T1120 *Callicarpa macrophylla*, T1747 *Corydalis thalictrifolia*, T5118 *Polygonum suffultum*, T6883 *Zanthoxylum myriacanthum*.
- stanch bleeding and settle pain** T0922 *Berchemia polyphylla* var. *leioclada*, T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3776 *Lethariella zahlbruckneri*, T5301 *Pterocarpus indicus*, T6615 *Uncaria gambir*.
- stanch bleeding and transform phlegm** T1683 *Cordyceps sinensis*.
- strengthen bones** T2841 *Gallus gallus domesticus*.
- strengthen essence and enrich kidney** T0572 *Aralia elata*.
- strengthen heart** T0184 *Adonis amurensis*, T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*], T1674 *Corchorus capsularis*, T6155 *Strophanthus divaricatus*, T6433 *Thevetia neriifolia* [Syn. *Thevetia peruviana*].
- strengthen heart and calm** T0190 *Adonis sutchuenensis*.
- strengthen heart and disinhibit urine** T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*], T2175 *Digitalis lanata*, T2177 *Digitalis purpurea*, T2452 *Erysimum cheiranthoides*, T4418 *Nerium indicum*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*].
- strengthen heart and lower blood pressure** T4682 *Pedicularis muscicola*.
- strengthen lumbus** T6727 *Veronica persica*.
- strengthen lumbus and knees** T0990 *Bos taurus domesticus*; *Bubalus bubalis*, T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T2347 *Embelia parviflora*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5722 *Sapium japonicum*, T6831 *Woodwardia orientalis*.
- strengthen lumbus and legs** T3389 *Ilex cornuta*.
- strengthen sinews and bones** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0073 *Achyranthes bidentata*, T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T0969 *Boerhavia diffusa*, T1337 *Cervus nippon*; *Cervus elaphus*, T1901 *Curculigo orchioides*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1963 *Cynanchum wallichii*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium*

- elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2530 *Eucommia ulmoides*, T2531 *Eucommia ulmoides*, T2736 *Fissistigma polyanthum*, T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T3199 *Hemibarbus labeo*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4260 *Moghania philippinensis*, T4283 *Morinda officinalis*, T4536 *Orobanche coerulescens*, T4729 *Periploca sepium*, T4828 *Photinia serrulata*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5924 *Sesamum indicum*, T6670 *Vaccinium bracteatum*, T6689 *Ventilago leiocarpa*, T6771 *Viscum album*, T6772 *Viscum angulatum*, T6775 *Viscum coloratum*, T6798 *Vitis vinifera*.
- strengthen sinews and lumbus** T2386 *Epigynum auritum*.
- strengthen spleen** T1498 *Citrus medica*, T1520 *Citrus wilsonii*.
- supplement blood** T2347 *Embelia parviflora*, T4178 *Melodinus hemsleyanus*, T4438 *Nostoc flagelliforme*, T6066 *Spatholobus suberectus*.
- supplement blood and enrich yin** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- supplement blood and quicken blood** T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T4238 *Millettia nitida*, T4239 *Millettia nitida* var. *hirsutissima*, T4308 *Mucuna birdwoodiana*.
- supplement blood and soothe sinews** T4311 *Mucuna sempervirens*.
- supplement blood and stanch bleeding** T4234 *Millettia dielsiana*.
- supplement brain and dispel wind** T0988 *Bos taurus domesticus*; *Bubalus bubalis*.
- supplement brain and marrow** T5924 *Sesamum indicum*.
- supplement center and boost qi** T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T4548 *Oryza sativa* var. *glutinosa*, T4618 *Panicum miliaceum*, T4786 *Phasianus colchicus*, T6916 *Ziziphus jujuba*, T6917 *Ziziphus jujuba* var. *inermis*.
- supplement center and harmonize blood** T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*].
- supplement essence and boost qi** T4206 *Metaplexis japonica*.
- supplement essence and replenish marrow** T2837 *Gallus gallus domesticus*.
- supplement fire and reinforce yang** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- supplement kidney** T0322 *Allium tuberosum*, T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*], T4057 *Mahonia bealei*, T4068 *Mahonia japonica*, T6150 *Streptopelia orientalis*.
- supplement kidney and boost essence** T0990 *Bos taurus domesticus*; *Bubalus bubalis*, T2753 *Formica fusca*, T3568 *Juglans regia*, T4207 *Metaplexis japonica*.
- supplement kidney and disinhibit water** T6527 *Trigonella caerulea*.
- supplement kidney and fortify brain** T4432 *Nigella glandulifera*.
- supplement kidney and invigorate yang** T0977 *Bombyx mori*, T0993 *Boschniakia rossica*, T1337 *Cervus nippon*; *Cervus elaphus*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1901 *Curculigo orchoides*, T1972 *Cynomorium songaricum*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2391 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T4283 *Morinda officinalis*, T4536 *Orobanche coerulescens*, T4696 *Penaea orientalis*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5270 *Psoralea corylifolia*, T6257 *Syngnathus acus*.
- supplement kidney and quiet spirit** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*].
- supplement kidney and rough essence** T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T3770 *Lespedeza cuneata*, T6754 *Vigna unguiculata*.
- supplement kidney and secure essence** T0793 *Astragalus complanatus*, T5067 *Polyalthia nemoralis*.
- supplement kidney and strengthen bones** T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T2053 *Davallia mariesii*, T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*.
- supplement kidney and strengthen lumbus** T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T1963 *Cynanchum wallichii*, T4642 *Parameria laevigata*.
- supplement kidney and strengthen sinews** T1254 *Castanea mollissima*.
- supplement liver** T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T6919 *Ziziphus jujuba* var. *spinosa*.
- supplement liver and boost kidney** T4656 *Parmelia saxatilis*, T5593 *Rubus idaeus*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*].
- supplement liver and kidney** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0073 *Achyranthes bidentata*, T0323 *Allium tuberosum*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2530 *Eucommia ulmoides*, T2531 *Eucommia ulmoides*, T2805 *Fugu ocellatus*, T3828 *Ligustrum lucidum*, T4279 *Morina chinensis*, T5927 *Sesamum indicum* [Syn. *Sesamum orientale*], T6670 *Vaccinium bracteatum*, T6775 *Viscum coloratum*, T6777 *Viscum multinerve*, T6831 *Woodwardia orientalis*.
- supplement lung and boost kidney** T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T1683 *Cordyceps sinensis*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5501 *Rhodiola yunnanensis*.
- supplement lung and boost spleen** T1191 *Caragana sinica*.
- supplement lung and relieve cough** T4276 *Monotropa uniflora*, T6267 *Syzygium jambos*.
- supplement original qi greatly** T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4682 *Pedicularis muscicola*.
- supplement qi** T3279 *Homo sapiens*.

- supplement qi and blood** T0983 *Bos taurus domesticus*, T3743 *Lentinus lepeideus*, T5179 *Potentilla anserina*, T5872 *Selenarctos thibetanus*; *Ursus arctos*, T6689 *Ventilago leiocarpa*, T6798 *Vitis vinifera*, T6803 *Volvariella volvacea*.
- supplement qi and clear lung** T5499 *Rhodiola sacra*.
- supplement qi and disinhibit water** T3129 *Hedysarum polybotrys*, T3199 *Hemibarbus labeo*.
- supplement qi and fortify spleen** T4545 *Oryza sativa*.
- supplement qi and nourish blood** T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1598 *Codonopsis convolvulacea*.
- supplement qi and nourish yin** T4610 *Panax quinquefolium*.
- supplement qi and quiet spirit** T0572 *Aralia elata*.
- supplement qi and reinforce yang** T4516 *Oplopanax elatus*.
- supplement spleen and boost kidney** T3992 *Lyonia ovalifolia* var. *elliptica*, T5236 *Prunus pseudocerasus*.
- supplement spleen and boost lung** T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- supplement spleen and boost qi** T0529 *Anthriscus sylvestris*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- supplement spleen and check diarrhea** T4400 *Nelumbo nucifera*.
- supplement spleen and engender liquid** T6055 *Sorbus tianschanica*.
- supplement spleen and fortify stomach** T4505 *Ophiocephalus argus*.
- supplement spleen and warm stomach** T1170 *Canis familiaris*.
- supplement stomach and spleen** T0513 *Annona squamosa*, T0540 *Apis cerana*, T2195 *Dioscorea deltoidea*.
- supplement vacuity** T1181 *Capra hircus*; *Ovis aries*, T1182 *Capra hircus*; *Ovis aries*, T3085 *Gynostemma pentaphyllum*, T4275 *Monotropa hypopitys*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T5407 *Rana nigromaculata*; *Rana plancyi*.
- supplement vacuity and boost essence** T3957 *Lycium chinense*.
- supplement vacuity and boost kidney** T2955 *Geum japonicum*, T2956 *Geum japonicum*.
- supplement vacuity and fortify spleen** T5075 *Polygala fallax* [Syn. *Polygala aureocauda*].
- supplement vacuity and stanch bleeding** T0923 *Bergenia crassifolia*.
- supplement vacuity detriment** T0989 *Bos taurus domesticus*; *Bubalus bubalis*.
- supplement yin** T3389 *Ilex cornuta*.
- suppress cough** T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T0301 *Aleuritopteris argentea*, T0598 *Ardisia japonica*, T0752 *Asparagus officinalis*, T0784 *Astilbe chinensis*, T1087 *Buxus bodinieri*, T2036 *Datura innoxia*, T2041 *Datura metel*, T2046 *Datura stramonium*, T2157 *Dichotomanthes tristaniaecarpa*, T2268 *Drosera rotundifolia*, T2902 *Gentiana algida*, T4195 *Menyanthes trifoliata*, T4275 *Monotropa hypopitys*, T4516 *Oplopanax elatus*, T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4635 *Papaver somniferum*, T5721 *Sapindus mukorossi*, T6282 *Tagetes patula*, T6537 *Tripterospermum japonicum*, T6538 *Tripterospermum taiwanense*, T6729 *Veronica spuria*, T6766 *Viola tricolor*.
- suppress cough and calm asthma** T2037 *Datura innoxia*, T2038 *Datura innoxia*, T2042 *Datura metel*, T2044 *Datura metel*, T3040 *Gomphrena globosa*, T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*.
- suppress cough and dispel phlegm** T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1927 *Cycas revoluta*, T2599 *Euphorbia lunulata*, T3394 *Ilex paraguariensis*.
- suppress cough and dispel wind** T1555 *Clerodendron fortunatum*, T6454 *Thymus vulgaris*.
- suppress cough and interrupt malaria** T3323 *Hymenodictyon excelsum*.
- suppress cough and relieve pain** T3332 *Hypecoum erectum*.
- suppress cough and settle asthma** T6075 *Spilanthes acmella*.
- suppress cough and transform phlegm** T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T4247 *Millingtonia hortensis*.
- terminate lactation** T3282 *Hordeum vulgare*.
- track wind** T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- track wind and dissipate cold** T3657 *Lactarius vellereus*.
- transform accumulation** T0950 *Blatta orientalis*.
- transform concretion and disperse accumulation** T2695 *Ferula assafoetida*.
- transform damp** T2246 *Dolichos lablab*, T2554 *Eupatorium cannabinum*, T3242 *Hibiscus rosa-sinensis*, T4209 *Michelia alba*.
- transform damp and check discharge** T0999 *Bougainvillea glabra*.
- transform damp and check dysentery** T5149 *Populus canadensis*, T5150 *Populus cathayana*.
- transform damp and disinhibit urine** T2341 *Elsholtzia ciliata*.
- transform damp and disinhibit water** T5103 *Polygonum hydropiper*.
- transform damp and disperse stagnation** T1784 *Cratoxylum cochinchinense*, T1785 *Cratoxylum prunifolium*.
- transform damp and disperse swelling** T4966 *Piper sarmentosum*.
- transform damp and harmonize center** T2563 *Eupatorium japonicum*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4470 *Ocimum basilicum*, T5389 *Rabdosia coetsa*.
- transform damp and move qi** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*].
- transform damp and repel foulness** T6561 *Tulipa gesneriana*.
- transform damp aromaticly** T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].
- transform phlegm** T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1210 *Carpesium abrotanoides*, T1472 *Citrus chachiensis*, T1478 *Citrus grandis*, T1488 *Citrus junos*, T1498 *Citrus medica*, T1517 *Citrus tankan*, T1520 *Citrus wilsonii*, T1526 *Cladonia rangiferina*, T2048 *Daucus carota*, T2426 *Erigeron sumatrensis*, T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria walujewii*, T2994 *Gloiopeltis furcata*, T3878 *Lithocarpus polystachyus*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T5419 *Raphanus sativus*, T6729 *Veronica spuria*.
- transform phlegm and calm asthma** T1154 *Camellia sinensis* [Syn. *Thea sinensis*], T2565 *Eupatorium lindleyanum*, T4855 *Physeter catodon*, T5961 *Sinocalamus oldhami*.
- transform phlegm and disinhibit damp** T0048 *Acanthus ilicifolius*, T4549 *Osbeckia chinensis*.
- transform phlegm and disperse accumulation** T2365 *Enteromorpha clathrata*.
- transform phlegm and dissipate binds** T0617 *Arisaema amurense*, T0618

- Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0975 *Bombyx mori*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T4903 *Pinellia pedatisecta*.
- transform phlegm and expel rheum** T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*].
- transform phlegm and interrupt malaria** T6252 *Symplocos chinensis*.
- transform phlegm and open orifices** T0142 *Acorus calamus*, T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0463 *Anemone altaica*.
- transform phlegm and precipitate qi** T5215 *Prunus amygdalus*.
- transform phlegm and quiet spirit** T6056 *Sorghum vulgare*.
- transform phlegm and relieve cough** T2119 *Derris eriocarpa*, T2752 *Fordia cauliflora*, T3006 *Glycosmis citrifolia*, T3520 *Isodon rosthornii*, T4231 *Milingtonia hortensis*, T4274 *Monostroma nitidum*, T5939 *Shiraita bambusicola*.
- transform phlegm and resolve toxin** T4840 *Phyllanthus niruri*.
- transform phlegm and soften hardness** T5171 *Porphyra tenera*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*.
- transform rheum** T4787 *Phellinus igniarius*.
- transform stagnation** T3674 *Laggera alata*, T4102 *Mangifera indica*.
- transform stagnation and relieve pain** T1232 *Cassia fistula*, T1836 *Crotalaria tetragona*, T4948 *Piper hancei*.
- transform stasis T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*].
- transform stasis and disperse accumulation T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*].
- transform stasis and disperse concretion** T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T4134 *Maytenus hookeri*.
- transform stasis and disperse swelling** T1287 *Celastrus hypoleucus*.
- transform stasis and dissipate binds** T1160 *Campsis grandiflora*, T2541 *Euonymus grandiflorus*, T4704 *Peperomia duclouxii*.
- transform stasis and move water** T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*].
- transform stasis and relieve pain** T0853 *Baeckea frutescens*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T5672 *Salvia flava*.
- transform stasis and stanch bleeding** T0776 *Asplenium prolongatum*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2602 *Euphorbia nematocypa*, T3981 *Lycopus lucidus*, T4606 *Panax pseudo-ginseng*, T5566 *Rosa henryi*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6551 *Trogopterus xanthipes*; *Pteromys volans*.
- treat lichen** T3630 *Kleinhovia hospita*.
- upbear yang** T4398 *Nelumbo nucifera*.
- upbear yang and check diarrhea** T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- upbear yang and effuse exterior** T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*].
- upbear yang and raise fall** T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1423 *Cimicifuga nanchuanensis*, T4601 *Panax ginseng* [Syn. *Panax schinseng*].
- upbear yang and resolve exterior** T5317 *Pueraria peduncularis*.
- warm center** T0322 *Allium tuberosum*, T1168 *Canavalia ensiformis*, T1169 *Canavalia gladiata*, T2837 *Gallus gallus domesticus*, T3758 *Lepidium sativum*, T6261 *Syringa pinnatifolia*, T6860 *Zanthoxylum ailanthoides*.
- warm center and boost qi** T6147 *Stizolobium capitatum*.
- warm center and check diarrhea** T0957 *Blumea balsamifera*, T1258 *Casuarina equisetifolia*.
- warm center and check vomiting** T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*].
- warm center and dissipate cold** T0099 *Aconitum gymnantrum*, T0491 *Angelica polymorpha*, T1008 *Brassica juncea*, T1186 *Capsicum annum*, T1187 *Capsicum frutescens*, T2643 *Evodia meliifolia*, T3850 *Lindera glauca*, T4944 *Piper cubeba*, T4953 *Piper longum*, T4957 *Piper nigrum*, T4966 *Piper sarmentosum*, T6858 *Zanthoxylum acanthopodium*, T6909 *Zingiber officinale*.
- warm center and downbear counterflow** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- warm center and fortify stomach** T4964 *Piper retrofractum*.
- warm center and move qi** T3620 *Kaempferia galanga*, T3852 *Lindera megaphylla*, T3853 *Lindera obtusiloba*, T3880 *Lithospermum arvense*, T4223 *Micromelum integerrimum*, T4351 *Myristica fragrans*, T4954 *Piper longum*.
- warm center and move stagnation** T0318 *Allium sativum*.
- warm center and normalize qi** T4018 *Machilus thunbergii*.
- warm center and precipitate qi** T1937 *Cydonia oblonga*.
- warm center and rectify qi** T1435 *Cinnamomum camphora*.
- warm center and relieve pain** T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1812 *Crossostephium chinense*, T1939 *Cymbopogon citratus*, T2087 *Delphinium tatsienense*, T3885 *Litsea cubeba*, T6229 *Swertia patens*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*.
- warm center and supplement blood** T5042 *Podocarpus macrophyllus*, T5044 *Podocarpus macrophyllus* var. *maki*.
- warm center and supplement vacuity** T4859 *Physochlaina physaloides*.
- warm center and transform damp** T0418 *Amomum muricarpum*, T4048 *Magnolia rostrata*.
- warm channels** T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*.
- warm channels and dissipate cold** T0108 *Aconitum kusnezoffii*.
- warm channels and free network vessels** T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1444 *Cinnamomum tamala*.
- warm channels and relieve pain** T0164 *Actinidia polygama*, T5541 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*].
- warm kidney** T0360 *Alpinia oxyphylla*, T4944 *Piper cubeba*, T4982 *Pistacia vera*, T6261 *Syringa pinnatifolia*, T6528 *Trigonella foenum-graecum*.
- warm kidney and disperse cold** T2744 *Foeniculum vulgare*, T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*].
- warm kidney and harmonize center** T2745 *Foeniculum vulgare*.
- warm kidney and invigorate yang** T1170 *Canis familiaris*, T1582 *Cnidium monnieri*, T5753 *Saussurea gnaphaloides*, T5755 *Saussurea involucrata*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].

- warm liver and kidney** T1441 *Cinnamomum japonicum*.
- warm lung** T0752 *Asparagus officinalis*.
- warm lung and settle asthma** T3568 *Juglans regia*.
- warm lung and transform rheum** T0724 *Asarum caulescens*, T0727 *Asarum fukienense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T4550 *Osmanthus fragrans*, T6909 *Zingiber officinale*.
- warm menstruation and quicken blood** T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*].
- warm menstruation and stanch bleeding** T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*.
- warm spleen** T0360 *Alpinia oxyphylla*, T4982 *Pistacia vera*.
- warm spleen and check diarrhea** T5270 *Psoralea corylifolia*.
- warm spleen and kidney** T0472 *Anethum graveolens*.
- warm spleen and stomach** T1441 *Cinnamomum japonicum*.
- warm stomach** T0353 *Alpinia blepharocalyx*, T0356 *Alpinia galanga*, T0359 *Alpinia officinarum*, T3120 *Hedychium spicatum*, T3250 *Hierochloe odorata*.
- warm stomach and center** T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*].
- warm stomach and check vomiting** T0358 *Alpinia katsumadai*.
- warm stomach and dissipate cold** T0354 *Alpinia chinensis*.
- warm stomach and eliminate accumulation** T0847 *Baccharis indica* [Syn. *Pluchea indica*].
- warm stomach and harmonize center** T1436 *Cinnamomum camphora*.
- warm stomach and regulate center** T2343 *Elsholtzia splendens*.
- warm stomach and relieve pain** T5504 *Rhododendron capitatum*.
- warm yang** T6423 *Theobroma cacao*.
- warm yang and disinhibit water** T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*].
- warm yang and dissipate cold** T3409 *Illicium verum*.

TCM Plant Traditional Indication Index

This index lists all 2528 normalized TCM traditional indications terms in English appeared in the encyclopedia in alphabetical order and the related plant code number (from T0001 to T6926) and Latin name follow the bold term immediately.

abdominal distention T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T1493 *Citrus limon*, T1497 *Citrus limonia*, T2115 *Dermatocarpon minutum*, T2529 *Euchresta strigillosa*, T3289 *Humulus lupulus*, T3381 *Hyptis suaveolens*, T3758 *Lepidium sativum*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4190 *Mentha spicata*, T4852 *Physalis peruviana*, T6339 *Tephrosia purpurea*.

abdominal distention and constipation T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5457 *Rhamnus davurica*.

abdominal distention and diarrhea T3282 *Hordeum vulgare*, T4983 *Pisum sativum*.

abdominal distention and emaciation T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*.

abdominal distention and pain T0357 *Alpinia japonica*, T0942 *Biebersteinia heterostemon*, T3886 *Litsea euosma*.

abdominal distention and torpid intake T2998 *Glycine max*.

abdominal distention with edema T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5966 *Siphonostegia chinensis*.

abdominal fullness with glomus and congestion T1546 *Clematis tangutica*.

abdominal lump glomus T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T4662 *Parthenocissus tricuspidata*.

abdominal pain T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0197 *Aegle marmelos*, T0302 *Alhagi pseudalhagi*, T0631 *Aristolochia kaempferi*, T0963 *Boehmeria siamensis*, T1100 *Caesalpinia crista*, T1147 *Camellia oleifera*, T1258 *Casuarina equisetifolia*, T1357 *Chelidonium majus*, T1359 *Chenopodium album*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1535 *Clausena excavata*, T1537 *Clausena lansium*, T1555

Clerodendron fortunatum, T1586 *Cocculus laurifolius*, T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1673 *Corchorus capsularis*, T1836 *Crotalaria tetragona*, T1931 *Cyclea barbata*, T1943 *Cymbopogon goeringii*, T2343 *Elsholtzia splendens*, T2444 *Ervatamia heyneana*, T2445 *Ervatamia officinalis*, T2529 *Euchresta strigillosa*, T2745 *Foeniculum vulgare*, T3120 *Hedychium spicatum*, T3221 *Heracleum rapula*, T3241 *Hibiscus mutabilis*, T3468 *Iris sanguinea*, T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T4348 *Myrica rubra*, T4544 *Oryza sativa*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4636 *Papaver somniferum*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T5268 *Psidium guajava*, T5460 *Rhamnus frangula* [Syn. *Frangula alnus*], T5604 *Rudbeckia laciniata*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6049 *Sophora viciifolia*, T6787 *Vitex negundo*.

abdominal pain and clouded spirit T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*.

abdominal pain and cramp T5363 *Pyrus calleryana*.

abdominal pain and diarrhea T0354 *Alpinia chinensis*, T0635 *Aristolochia moupinensis*, T1546 *Clematis tangutica*, T1745 *Corydalis suaveolens* [Syn. *Corydalis shearerii*], T1747 *Corydalis thalictrifolia*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1932 *Cyclea racemosa*, T2517 *Eucalyptus robusta*, T3554 *Jasminum grandiflorum*, T4154 *Melaleuca leucadendra*, T4261 *Mollugo pentaphylla*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*, T4957 *Piper nigrum*, T5469 *Rheum hotaoense*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6119 *Stephania cepharantha*, T6402 *Thalictrum omeiense*, T6410 *Thalictrum smithii*, T6861 *Zanthoxylum ailanthoides*, T6862 *Zanthoxylum ailanthoides*.

- abdominal pain and vomiting due to roundworm** T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*.
- abdominal pain due to ascariasis** T3342 *Hypericum bellum*, T4127 *Matteuccia struthiopteris*.
- abdominal pain due to stagnation** T5541 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], T5613 *Rumex obtusifolius*.
- abdominal pain due to static blood** T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*].
- abdominal pain due to summerheat damage** T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*].
- abdominal pain due to worm accumulation** T0314 *Allium fistulosum*, T1632 *Combretum yunnanensis*, T2049 *Daucus carota*, T2546 *Euonymus sacrosancta*, T4156 *Melia azedarach*, T4157 *Melia azedarach*, T4162 *Melia toosendan*, T4163 *Melia toosendan*, T4542 *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*], T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*, T5328 *Punica granatum*, T6476 *Torilis japonica*, T6858 *Zanthoxylum acanthopodium*.
- abdominal pain glomus distention** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*.
- aberratio mensium** T1001 *Brachystemma calycinum*, T4607 *Panax pseudo-ginseng* var. *japonicus*.
- abnormal increase of lipoxigenase** T3106 *Harpagophytum procumbens*.
- abscess** T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*], T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*].
- absence of sweating** T2343 *Elsholtzia splendens*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- abundant and sticky phlegm** T5521 *Rhododendron przewalskii*.
- abundant phlegm** T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3434 *Inula linariaefolia*, T3758 *Lepidium sativum*, T4518 *Oppopanax chironium*, T4908 *Pinus bungeana*, T5502 *Rhododendron anthopogonoides*, T5519 *Rhododendron mucronulatum*.
- abundant phlegm and asthma** T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*.
- abundant phlegm and shortness of breath** T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- accumulated fire toxin** T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- accumulation and diarrhea** T5420 *Raphanus sativus*.
- accumulation and distention-fullness** T2597 *Euphorbia lathyris*.
- accumulation from phlegm** T6105 *Stellera chamaejasme*.
- accumulation with abdominal distention** T1544 *Cleistocalyx operculatus*, T5573 *Rosa sericea*.
- accumulation with abdominal pain** T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- accumulation-gathering** T2384 *Epicauta gorhami*, T5229 *Prunus persica*.
- accumulation-gathering and distention-fullness** T3893 *Litsea pungens*.
- aching and weightiness of limbs** T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*].
- aching cold in lumbus and knees** T1441 *Cinnamomum japonicum*.
- aching in lumbus and knees** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0073 *Achyranthes bidentata*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T1683 *Cordyceps sinensis*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T2540 *Euonymus fortunei*, T3199 *Hemibarbus labeo*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4279 *Morina chinensis*, T4283 *Morinda officinalis*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5722 *Sapium japonicum*, T6484 *Trachelospermum jasminoides*.
- aching in lumbus and legs** T0045 *Acanthopanax trifoliatum*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0571 *Aralia decaisneana*, T2347 *Embelia parviflora*, T4308 *Mucuna birdwoodiana*, T6772 *Viscum angulatum*.
- aching lumbus and tinnitus** T4288 *Morus alba*.
- aching pain in back and shoulder** T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*].
- aching pain in joints** T0470 *Anemone raddeana*, T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4290 *Morus alba*, T4688 *Peganum harmala*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].
- aching pain in limbs** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T4655 *Paris tetraphylla*.
- aching pain in lumbus and back** T1337 *Cervus nippon*; *Cervus elaphus*, T6831 *Woodwardia orientalis*.
- aching pain in lumbus muscle** T0539 *Apis cerana*.
- aching sinews and bones** T0598 *Ardisia japonica*, T2438 *Erodium stephanianum*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T3479 *Isodon amethystoides*.
- aching sinews in limb joints** T4950 *Piper kadsura* [Syn. *Piper futokadsura*].
- acid vomiting** T2841 *Gallus gallus domesticus*.
- acne** T1641 *Conioselinum vaginatum*.
- acute appendicitis** T1709 *Corydalis bungeana*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglaucula*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T6554 *Trollius macropetalus*.
- acute bacillary dysentery** T0130 *Aconitum sinomontanum*, T5018 *Pleuropteris ciliinervis*, T5173 *Portulaca oleracea*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6234 *Swertia punicea*.
- acute bronchitis** T1943 *Cymbopogon goeringii*, T3646 *Kyllinga brevifolia*, T5508 *Rhododendron dauricum*, T6454 *Thymus vulgaris*.
- acute cholecystitis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum*

- aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1573 *Clinopodium chinense*, T5400 *Rabdosia stracheyi*.
- acute conjunctivitis** T1573 *Clinopodium chinense*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3432 *Inula helianthus-aquatica*, T3827 *Ligustrum japonicum*, T4121 *Marsilea quadrifolia*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6095 *Stachytarpheta jamaicensis*, T6226 *Swertia mileensis*, T6231 *Swertia pseudochinensis*, T6260 *Syringa oblata*, T6412 *Thalictrum squarrosum*, T6554 *Trollius macropetalus*.
- acute conjunctivitis nephelium** T1747 *Corydalis thalictrifolia*, T4843 *Phyllanthus urinaria*.
- acute dermatitis** T6414 *Thalictrum thunbergii*.
- acute diarrhea** T6260 *Syringa oblata*.
- acute dysentery** T3828 *Ligustrum lucidum*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T6554 *Trollius macropetalus*.
- acute eczema** T0916 *Berberis thunbergii*.
- acute endometritis** T2715 *Fibraurea recisa*.
- acute enteritis** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0130 *Aconitum sinomontanum*, T1554 *Clerodendron cyrtophyllum*, T2590 *Euphorbia hirta*, T5018 *Pleuropterus ciliinervis*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*.
- acute febrile diseases** T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*.
- acute fright wind** T1210 *Carpesium abrotanoides*, T2890 *Gastrodia elata*, T5817 *Scolopendra subspinipes mutilans*.
- acute gastritis** T1101 *Caesalpinia decapetala*, T2422 *Erigeron breviscapus*, T6226 *Swertia mileensis*.
- acute gastroenteritis** T0501 *Anisodus luridus*, T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T0881 *Bauhinia variegata*, T1785 *Cratogeomys prunifolium*, T2988 *Glochidion eriocarpum*, T3476 *Isatis indigotica*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5247 *Przewalskia tangutica*, T5847 *Securidaca inappendiculata*, T6135 *Stephania succifera*, T6469 *Tithonia diversifolia*.
- acute glomerulonephritis** T3416 *Imperata cylindrica* var. *major*.
- acute heart pain** T0542 *Apis cerana*.
- acute hepatitis** T0048 *Acanthus ilicifolius*, T0897 *Berberis amurensis*, T3416 *Imperata cylindrica* var. *major*, T5395 *Rabdosia nervosa*, T5607 *Rumex crispus*, T5957 *Silybum marianum*, T6119 *Stephania cepharantha*.
- acute icterohepatitis** T0468 *Anemone hupehensis*, T1545 *Clematis chinensis*, T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T5400 *Rabdosia stracheyi*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5857 *Sedum sarmentosum*, T6227 *Swertia mussotii*, T6231 *Swertia pseudochinensis*, T6234 *Swertia punicea*.
- acute infant fright wind** T0987 *Bos taurus domesticus*; *Bubalus bubalis*.
- acute infection of upper respiratory tract** T0975 *Bombyx mori*.
- acute infectious hepatitis** T6540 *Tripterygium hypoglaucum*.
- acute jaundice** T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*].
- acute laryngitis** T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*.
- acute leukemia** T1162 *Camptotheca acuminata*.
- acute lymphangitis** T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6554 *Trollius macropetalus*.
- acute mastitis** T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*].
- acute myocardial infarction** T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*.
- acute nephritis** T0598 *Ardisia japonica*, T1553 *Clerodendranthus spicatus*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2327 *Elaeagnus angustifolia*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T6008 *Solanum nigrum*.
- acute nephritis with edema** T3416 *Imperata cylindrica* var. *major*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*.
- acute or chronic tonsillitis** T6554 *Trollius macropetalus*.
- acute otitis media** T6251 *Symplocos caudata*, T6554 *Trollius macropetalus*.
- acute pancreatitis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- acute parotitis** T3476 *Isatis indigotica*.
- acute pelvic inflammation** T2715 *Fibraurea recisa*.
- acute periostitis** T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*.
- acute peritonitis** T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.

- acute pharyngolaryngitis** T3423 *Indigofera tinctoria*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6226 *Swertia mileensis*.
- acute rheumatic arthritis** T1180 *Capparis spinosa*.
- acute spasm in limbs** T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*.
- acute spinal cord inflammation** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].
- acute surgical infection** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- acute throat wind** T2027 *Daphne odora*.
- acute tonsillitis** T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T2715 *Fibraurea recisa*, T4391 *Nauclea officinalis*, T4845 *Physalis alkekengi*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6226 *Swertia mileensis*, T6251 *Symplocos caudata*.
- acute urethritis** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*.
- AD syndrome** T2961 *Ginkgo biloba*.
- adjuvant in anesthesia** T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T6136 *Stephania tetrandra*.
- agkistrodon bite** T5393 *Rabdosia longituba*.
- allergic conjunctivitis** T3936 *Luffa operculata*.
- allergic dermatitis** T1573 *Clinopodium chinense*, T4838 *Phyllanthus flexuosus*, T5847 *Securidaca inappendiculata*, T6226 *Swertia mileensis*.
- allergic rhinitis** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T3936 *Luffa operculata*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- alopecia areata** T2048 *Daucus carota*, T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*, T5270 *Psoralea corylifolia*.
- altitude stress** T5499 *Rhodiola sacra*.
- amebic dysentery** T0318 *Allium sativum*, T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T6820 *Wikstroemia indica*.
- amenorrhea** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0250 *Agrimonia pilosa* var. *japonica*, T0273 *Akebia quinata*, T0274 *Akebia quinata*, T0277 *Akebia trifoliata*, T0278 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0280 *Akebia trifoliata* var. *australis*, T0300 *Aleurites moluccana*, T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T0680 *Artemisia lactiflora*, T0736 *Asclepias curassavica*, T0941 *Bidens tripartita*, T0978 *Bombyx mori*, T0991 *Bos taurus domesticus*; *Bubalus bubalis*, T0994 *Boswellia carterii*, T1163 *Campylotropis hirtella*, T1175 *Cannabis sativa*, T1215 *Carthamus tinctorius*, T1285 *Celastrus angulatus*, T1286 *Celastrus flagellaris*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1356 *Cheiranthus cheiri*, T1361 *Chenopodium ambrosioides*, T1372 *Chloranthus serratus*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1450 *Cirsium lineare*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T1808 *Crocus sativus*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T1928 *Cycas revoluta*, T1976 *Cyperus iria*, T2020 *Damnacanthus indicus*, T2130 *Desmodium gangeticum*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2347 *Embelia parviflora*, T2348 *Embelia ribes*, T2384 *Epicauta gorhami*, T2387 *Epilobium hirsutum*, T2536 *Euonymus alatus*, T2546 *Euonymus sacrosancta*, T2723 *Ficus pumila*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3410 *Impatiens balsamina*, T3412 *Impatiens balsamina*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3549 *Ixora chinensis*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3774 *Lespedeza tomentosa*, T3785 *Levisticum officinale*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3980 *Lycopus lucidus*, T4234 *Milletia dielsiana*, T4311 *Mucuna sempervirens*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4787 *Phellinus igniarius*, T5028 *Plumbago indica*, T5101 *Polygonum cuspidatum*, T5229 *Prunus persica*, T5230 *Prunus persica*, T5231 *Prunus persica*, T5233 *Prunus persica*, T5269 *Psilotum nudum*, T5541 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5567 *Rosa laevigata*, T5626 *Ruta graveolens*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5741 *Sargentodoxa cuneata*, T5755 *Saussurea involucrata*, T5793 *Schisandra henryi*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6062 *Sparganium stoloniferum*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6278 *Tagetes erecta*, T6357 *Tetrapanax papyriferus*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6507 *Trichosanthes cucumeroides*, T6551 *Trogopterus xanthipes*; *Pteromys volans*, T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], T6675 *Valeriana amurensis*, T6676 *Valeriana hardwickii*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6895 *Zanthoxylum simulans*.
- amenorrhea and dysmenorrhea** T0069 *Achillea wilsoniana*, T0275 *Akebia quinata*, T0495 *Angelica sinensis*, T0759 *Aspidistra elatior*, T1108 *Caesalpinia sappan*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T1934 *Cyclea*

- tonkinensis*, T1978 *Cyperus rotundus*, T3221 *Heracleum rapula*, T3411 *Impatiens balsamina*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T4550 *Osmanthus fragrans*, T4804 *Phlojodicarpus sibiricus*, T6709 *Verbena officinalis*.
- amenorrhoea and scant milk** T0632 *Aristolochia manshuriensis*.
- amenorrhoea due to blood stasis** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0073 *Achyranthes bidentata*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1923 *Cyathula capitata*, T2541 *Euonymus grandiflorus*, T2597 *Euphorbia lathyris*, T3287 *Huechys sanguinea*, T4106 *Manis pentadactyla*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4418 *Nerium indicum*, T4530 *Ormosia hosiei*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4607 *Panax pseudo-ginseng* var. *japonicus*, T5029 *Plumbago zeylanica*, T5104 *Polygonum hydropiper*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5578 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumannina*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*.
- amenorrhoea with concretion and conglomeration** T1924 *Cyathula officinalis*, T2838 *Gallus gallus domesticus*.
- amnesia** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5701 *Salvia yunnanensis*.
- amnesia and heavy dreams** T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*].
- anaphylactic diseases (hay fever, pollinosis, allergic rhinitis, allergic conjunctivitis)** T3936 *Luffa operculata*.
- angylostomiasis** T0318 *Allium sativum*, T1211 *Carpesium abrotanoides*, T1361 *Chenopodium ambrosioides*, T1881 *Cucurbita moschata*, T2049 *Daucus carota*, T2279 *Dryopteris championii*, T2281 *Dryopteris crassirhizoma*, T2510 *Eucalyptus globulus*, T5173 *Portulaca oleracea*, T5537 *Rhus sylvestris*, T6277 *Tadehagi triquetrum*.
- anemia** T1353 *Changium smyrnioides*, T5207 *Prismatomeris tetrandra*, T5586 *Rubia yunnanensis*.
- anemia and amenorrhoea** T4478 *Octopus vulgaris*, T6689 *Ventilago leiocarpa*.
- anemia and constipation** T0989 *Bos taurus domesticus*; *Bubalus bubalis*.
- anemia and generalized pain** T5108 *Polygonum multiflorum*.
- anemia and scant milk** T4178 *Melodinus hemsleyanus*.
- anemia due to bleeding** T6066 *Spatholobus suberectus*.
- anemia due to folic acid deficiency** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- anemia due to malnutrition** T6066 *Spatholobus suberectus*.
- anemia with yellow complexion** T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T4600 *Panax ginseng* [Syn. *Panax schinseng*], T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T6066 *Spatholobus suberectus*.
- anesthesia** T0108 *Aconitum kusnezoffii*, T1330 *Cerbera manghas*, T2037 *Datura innoxia*, T2044 *Datura metel*.
- angitis** T0264 *Ajuga forrestii*, T3092 *Halenia corniculata*.
- angina pectoris** T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- angitis** T1327 *Ceratostigma minus*, T6676 *Valeriana hardwickii*.
- animal and insect bites** T4254 *Miscanthus sinensis*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*].
- annexitis** T6217 *Swertia davidii*.
- anorexy for greasy** T1705 *Corydalis adunca*.
- ant-fistula** T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*.
- anthrax** T5821 *Scopolia japonica*.
- anxiety and depression** T1808 *Crocus sativus*.
- aphonia** T2839 *Gallus gallus domesticus*, T3701 *Lasiosphaera fenzlii*, T3961 *Lycoperdon pyriforme*, T4537 *Oroxylum indicum*, T5719 *Sapindus mukorossi*.
- aphonia due to lung heat** T0161 *Actinidia eriantha*.
- aphonia due to throat pain** T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6139 *Sterculia lychnophora*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*.
- appendicitis** T0646 *Armillariella tabescens*, T3548 *Ixeris sonchifolia*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T5101 *Polygonum cuspidatum*, T5173 *Portulaca oleracea*, T5844 *Scutellaria scordifolia*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6025 *Sonchus arvensis*, T6716 *Vernonia esculenta*.
- ardent fever** T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T3323 *Hymenodictyon excelsum*, T4145 *Meconopsis punicea*.
- ardent fever and convulsion** T5295 *Pteris multifida*.
- ardent fever and manic agitation** T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*.
- ardent fever incessant** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T1633 *Commelina communis*.
- ardent fever with clouded spirit** T1045 *Bubalus bubalis*, T3476 *Isatis*

- indigotica*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- ardent fever with fright wind** T5184 *Potentilla kleiniana*.
- ardent fever with headache** T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T3475 *Isatis indigotica*.
- ardent fever with vexation and thirst** T0462 *Anemarrhena asphodeloides*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*.
- ardent fever (hyperpyrexia)** T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*].
- armpit welling abscess** T6099 *Stauntonia chinensis*.
- arrhythmia** T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*], T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6919 *Ziziphus jujuba* var. *spinosa*.
- arsenic poisoning** T4503 *Onychium lucidum*.
- arthralgia** T5661 *Salvia bowleyana*, T5701 *Salvia yunnanensis*.
- arthritis** T0495 *Angelica sinensis*, T0647 *Armoracia lapathifolia*, T3882 *Lithospermum officinale*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4689 *Peganum nigellastrum*, T4804 *Phlojodicarpus sibiricus*.
- ascariasis** T0255 *Ailanthus altissima*, T0264 *Ajuga forrestii*, T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*, T0364 *Alsophila spinulosa*, T0446 *Anaphalis margaritacea*, T0468 *Anemone hupehensis*, T0659 *Artemisia absinthium*, T1122 *Caloglossa leprieurii*, T1176 *Cannabis sativa*, T1211 *Carpesium abrotanoides*, T1361 *Chenopodium ambrosioides*, T1382 *Chondria armata* [Syn. *Lophura armata*], T1595 *Codium fragile*, T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1881 *Cucurbita moschata*, T2049 *Daucus carota*, T2173 *Digenea simplex*, T2281 *Dryopteris crassirhizoma*, T3466 *Iris potaninii*, T3688 *Lappula echinata*, T3935 *Luffa cylindrica*, T4002 *Lysimachia foenum-graecum*, T4026 *Macrothelypteris oligophlebia*, T4083 *Mallotus philippinensis*, T4084 *Mallotus philippinensis*, T4156 *Melia azedarach*, T4162 *Melia toosendan*, T4231 *Milingtonia hortensis*, T4247 *Millingtonia hortensis*, T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*, T5098 *Polygonum aviculare*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5173 *Portulaca oleracea*, T5176 *Potamogeton natans*, T5298 *Pteris vittata*, T5327 *Punica granatum*, T5329 *Punica granatum*, T5384 *Quisqualis indica*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T5920 *Seriphidium cinum* [Syn. *Artemisia cina*], T5921 *Seriphidium finitum* [Syn. *Artemisia finita*], T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6035 *Sophora japonica*, T6101 *Stauntonia hexaphylla*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6312 *Taxus mairei*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6691 *Veratrum baillonii*, T6713 *Vernonia anthelmintica*.
- ascariasis in biliary tract** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].
- ascites** T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1263 *Catalpa ovata*, T1357 *Chelidonium majus*, T1633 *Commelina communis*, T1756 *Costus speciosus*, T2023 *Daphne genkwa*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2439 *Eruca sativa*, T2580 *Euphorbia antiquorum*, T2585 *Euphorbia esula*, T2596 *Euphorbia kansui*, T2631 *Eurya japonica*, T3066 *Gryllulus chinensis*, T3432 *Inula helianthus-aquatica*, T3668 *Lagenaria siceraria* var. *depressa*, T3774 *Lespedeza tomentosa*, T5129 *Polyporus umbellatus*, T5238 *Prunus salicina*, T5407 *Rana nigromaculata*; *Rana plancyi*, T5461 *Rhamnus leptophylla*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5723 *Sapium sebiferum*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5862 *Selaginella involvens*, T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*].
- ascites (hydroperitoneum)** T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*], T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*].
- ascites ulcer** T1194 *Carassius auratus*, T2601 *Euphorbia milii*.
- ashen nail** T3411 *Impatiens balsamina*.
- asthma** T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T0364 *Alsophila spinulosa*, T0539 *Apis cerana*, T0923 *Bergenia crassifolia*, T0926 *Berneuxia thibetica*, T1176 *Cannabis sativa*, T1452 *Cissampelos pareira*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1684 *Cordylone stricta*, T1819 *Crotalaria ferruginea*, T1880 *Cucurbita moschata*, T2101 *Dendrobium fimbriatum*, T2268 *Drosera rotundifolia*, T2279 *Dryopteris championii*, T2505 *Eucalyptus citriodora*, T2738 *Flemingia strobilifera*, T2749 *Fomes officinalis*, T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T3040 *Gomphrena globosa*, T3056 *Gossypium herbaceum*, T3190 *Helminthostachys zeylanica*, T3758 *Lepidium sativum*, T3765 *Lepisorus ussuriensis*, T3779 *Leucas aspera*, T3850 *Lindera glauca*, T3885 *Litsea cubeba*, T3953 *Lycianthes biflora*, T4003 *Lysimachia microcarpa*, T4371 *Nandina domestica*, T4549 *Osbeckia chinensis*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4908 *Pinus bungeana*, T4937 *Piper betle*, T5502 *Rhododendron anthopogonoides*, T5513 *Rhododendron mariae*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*], T5943 *Sida cordifolia*, T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6075 *Spilanthes acmella*, T6105 *Stellera chamaejasme*, T6206 *Sus scrofa domestica*, T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*], T6264 *Syzygium buxifolium*, T6581 *Tylophora mollissima*, T6789 *Vitex negundo*.
- asthma (for women)** T2391 *Epimedium brevicornum*.
- asthma (raw)** T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*.
- asthma and abundant phlegm** T0591 *Ardisia arborescens*.
- asthma and cough** T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T5517 *Rhododendron molle*.
- asthma and fullness due to external contraction cough** T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*.
- atherosclerosis** T2410 *Equisetum pratense*.

- atrial fibrillation** T0184 *Adonis amurensis*.
- aversion of cold** T1337 *Cervus nippon*; *Cervus elaphus*, T2343 *Elsholtzia splendens*.
- aversion of cold during convalescence** T5499 *Rhodiola sacra*.
- aversion to light** T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- bacillary dysentery** T0318 *Allium sativum*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0643 *Aristolochia versicolor*, T0897 *Berberis amurensis*, T0912 *Berberis poiretii*, T0920 *Berberis wilsonae*, T1044 *Bryum argenteum*, T1785 *Cratogeomys prunifolium*, T2357 *Emilia sonchifolia*, T2589 *Euphorbia helioscopia*, T2590 *Euphorbia hirta*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T3203 *Hemyleya amabilis*, T3208 *Hemyleya macrosperma*, T4391 *Nauclea officinalis*, T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5375 *Quercus mongolica*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6119 *Stephania cepharantha*, T6135 *Stephania succifera*, T6277 *Tadehagi triquetrum*.
- backache** T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1683 *Cordyceps sinensis*, T1928 *Cycas revoluta*, T5107 *Polygonum multiflorum*.
- bacteriogenic dysentery** T5149 *Populus canadensis*, T5150 *Populus cathayana*.
- bad breath** T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T2336 *Elephas maximus*, T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*, T4170 *Melilotus albus*, T4172 *Melilotus suaveolens*, T4470 *Ocimum basilicum*, T4550 *Osmanthus fragrans*.
- bad breath and slimy tongue fur** T6561 *Tulipa gesneriana*.
- bald sores** T1955 *Cynanchum hancockianum*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T2338 *Elephas maximus*, T3567 *Juglans regia*, T4265 *Momordica cochinchinensis*, T4520 *Opuntia ficus-indica*, T5607 *Rumex crispus*, T5646 *Sagina japonica* [Syn. *Spergula japonica*].
- bald white scalp sore** T1278 *Cedrela sinensis*, T4917 *Pinus massoniana*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*.
- bedsore** T0297 *Alchornea trewioides*.
- bee sting** T1624 *Colocasia antiquorum*, T2206 *Dioscorea parviflora*, T2213 *Dioscorea zingiberensis*, T3003 *Glycine max*, T5120 *Polygonum tinctorium*, T6367 *Teucrium quadrifarium*.
- bee-fistula** T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*.
- behcet's syndrome** T6542 *Tripterygium wilfordii*.
- belching** T0353 *Alpinia blepharocalyx*.
- belching and low food intake** T1498 *Citrus medica*, T1520 *Citrus wilsonii*.
- beriberi** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0559 *Arachis hypogaea*, T0606 *Areca catechu*, T0680 *Artemisia lactiflora*, T0721 *Arundina chinensis*, T0853 *Baeckea frutescens*, T0895 *Benincasa hispida*, T1258 *Casuarina equisetifolia*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T1435 *Cinnamomum camphora*, T1556 *Clerodendron fragrans*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1980 *Cyprinus carpio*, T2038 *Datura innoxia*, T2042 *Datura metel*, T2343 *Elsholtzia splendens*, T2744 *Foeniculum vulgare*, T3436 *Inula nervosa*, T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T3893 *Litsea pungens*, T4287 *Morus alba*, T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*, T4505 *Ophiocephalus argus*, T4546 *Oryza sativa*, T4785 *Phaseolus vulgaris*, T4799 *Philydrum lanuginosum*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5071 *Polygala arillata*, T5110 *Polygonum orientale*, T5151 *Populus davidiana*, T5171 *Porphyra tenera*, T5189 *Pothos chinensis*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5231 *Prunus persica*, T5238 *Prunus salicina*, T5244 *Prunus tomentosa*, T5548 *Ricinus communis*, T5750 *Saururus chinensis*, T6069 *Speranskia tuberculata*, T6528 *Trigonella foenum-graecum*, T6870 *Zanthoxylum bungeanum*, T6925 *Zostera marina*.
- beriberi with edema** T0500 *Anguilla japonica*, T0629 *Aristolochia heterophylla*, T1343 *Chaenomeles sinensis*, T2119 *Derris eriocarpa*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3996 *Lysimachia candida*, T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T4983 *Pisum sativum*, T6129 *Stephania japonica*, T6136 *Stephania tetrandra*, T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*].
- beriberi with general edema** T5818 *Scoparia dulcis*.
- bilharziosis** T1881 *Cucurbita moschata*, T2131 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], T5308 *Pterocarya stenoptera*, T6709 *Verbena officinalis*.
- binding depression of liver qi** T5137 *Poncirus trifoliata*.
- bitter taste** T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T6228 *Swertia nervosa*.
- bitter taste and slimy tongue fur** T2554 *Eupatorium cannabinum*.
- bitter taste and tidal fever** T6224 *Swertia kouichensis*.
- bladder qi pain** T1504 *Citrus reticulata*.
- bladder vacuity cold** T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*].
- bleeding** T1299 *Celosia cristata*, T1402 *Chrysosplenium alternifolium*, T2321 *Ecklonia kurome*, T3678 *Laminaria japonica*, T4009 *Maackia amurensis*, T4234 *Milletia dielsiana*, T5173 *Portulaca oleracea*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T6119 *Stephania cepharantha*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6640 *Undaria pinnatifida*.
- bleeding due to blood heat** T5578 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumannina*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*, T5852 *Sedum bulbiferum*.
- bleeding due to external injury** T0019 *Acacia catechu*, T0156 *Actinidia arguta*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0181 *Adina rubella*, T0229 *Ageratum conyzoides*, T0248 *Agrimonia pilosa*, T0264 *Ajuga forrestii*, T0267 *Ajuga nipponensis*, T0295 *Albizia odoratissima*, T0298 *Alectoria vivens*, T0328 *Alnus japonica*, T0371 *Alstonia mairei*, T0374 *Alstonia scholaris*, T0378 *Alstonia yunnanensis*, T0423 *Ampelopsis brevipedunculata*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0572 *Aralia elata*, T0634 *Aristolochia mollissima*, T0736 *Asclepias curassavica*, T0776 *Asplenium*

prolongatum, T0805 *Astragalus sinicus*, T0859 *Balanophora involocrata*, T0871 *Barleria lupulina*, T0955 *Bletilla striata*, T1043 *Bryophyllum pinnatum*, T1116 *Callicarpa arborea*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1120 *Callicarpa macrophylla*, T1129 *Calophyllum inophyllum*, T1163 *Campylotropis hirtella*, T1210 *Carpesium abrotanoides*, T1212 *Carpesium eximum*, T1251 *Cassytha filiformis*, T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*], T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1529 *Cladonia verticillata*, T1554 *Clerodendron cyrtophyllum*, T1566 *Clerodendrum inerme*, T1655 *Conyza blinii*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T1684 *Cordylone strcta*, T1815 *Crotalaria assamica*, T1928 *Cycas revoluta*, T1932 *Cyclea racemosa*, T1969 *Cynoglossum officinale*, T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T2008 *Dalbergia odorifera*, T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T2013 *Dalbergia sissoo*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2327 *Elaeagnus angustifolia*, T2348 *Embelia ribes*, T2407 *Equisetum arvense*, T2510 *Eucalyptus globulus*, T2540 *Euonymus fortunei*, T2602 *Euphorbia nematocypha*, T2614 *Euphorbia pulcherrima*, T2631 *Eurya japonica*, T2732 *Firmiana simplex*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2825 *Galeobdolon chinense* [Syn. *Lamium chinense*], T2857 *Garcinia hanburyi*, T2866 *Garcinia morella*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T2998 *Glycine max*, T3054 *Gossypium barbadense*, T3055 *Gossypium herbaceum*, T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3089 *Gypsophila acutifolia*, T3092 *Halenia corniculata*, T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3324 *Hymenophyllum barbatum*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3361 *Hypericum perforatum*, T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*], T3387 *Idesia polycarpa*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3395 *Ilex pedunculosa*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3672 *Lagerstroemia indica*, T3701 *Lasiosphaera fenlzii*, T3732 *Lawsonia inermis*, T3851 *Lindera glauca*, T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T3863 *Liparis nervosa*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3876 *Litchi chinensis*, T3887 *Litsea glutinosa*, T3953 *Lycianthes biflora*, T3961 *Lycoperdon pyriforme*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T3990 *Lygodium japonicum*, T3995 *Lysidice rhodostegia*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4026 *Macrothehypteris oligophlebia*, T4029 *Maesa japonica*, T4080 *Mallotus apelta*, T4082 *Mallotus japonicus*, T4118 *Marsdenia oreophila*, T4126 *Matteuccia orientalis*, T4305 *Mosla dianthera*, T4346 *Myrica nagi* [Syn. *Podocarpus nagi*], T4413 *Nepeta*

cataria, T4503 *Onychium lucidum*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4658 *Parmelia tinctorum*, T4686 *Pedilanthus tithymaloides*, T4705 *Peperomia pellucida*, T4730 *Peristrophe roxburghiana*, T4836 *Phyllanthus emblica*, T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*], T5104 *Polygonum hydropiper*, T5109 *Polygonum nodosum*, T5118 *Polygonum suffultum*, T5172 *Portulaca grandiflora*, T5184 *Potentilla kleiniana*, T5185 *Potentilla multifida*, T5194 *Premna microphylla*, T5250 *Psammosilene tunicoides*, T5267 *Psidium guajava*, T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5295 *Pteris multifida*, T5299 *Pteris wallichinan*, T5310 *Pterospermum lanceaefolium*, T5339 *Pycnoporus sanguineus*, T5374 *Quercus infectoria*, T5411 *Randia spinosa*, T5444 *Reboulia hemisphaerica*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5501 *Rhodiola yunnanesis*, T5524 *Rhododendron simsii*, T5528 *Rhodomyrtus tomentosa*, T5529 *Rhodomyrtus tomentosa*, T5537 *Rhus sylvestris*, T5555 *Rodgersia pinnata*, T5563 *Rosa cymosa*, T5566 *Rosa henryi*, T5587 *Rubus alceaefolius*, T5595 *Rubus parviflorius*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5746 *Sassafras tzumu*, T5753 *Saussurea gnaphaloides*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T5785 *Schefflera venulosa*, T5821 *Scopolia japonica*, T5840 *Scutellaria indica*, T5850 *Sedum aizoon*, T5852 *Sedum bulbiferum*, T5855 *Sedum kamschaticum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5860 *Selaginella davidii*, T5861 *Selaginella doederleinii*, T5862 *Selaginella involvens*, T5863 *Selaginella moellendorffii*, T5866 *Selaginella sanguinolenta*, T5867 *Selaginella sinensis*, T5870 *Selaginella uncinata*, T5883 *Senecio cannabifolius*, T5942 *Sida acuta*, T5998 *Solanum dulcamara*, T6003 *Solanum khasianum*, T6116 *Stenoloma chusanum*, T6119 *Stephania cepharantha*, T6145 *Stichopus japonicus*, T6177 *Strychnos ignatii*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6367 *Teucrium quadrifarium*, T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6485 *Trachycarpus fortunei*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6531 *Trillium kamschaticum*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6548 *Tritonia crocosmaeflora*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6615 *Uncaria gambir*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6705 *Verbascum thapsus*, T6728 *Veronica serpyllifolia*, T6731 *Veronicastrum sibiricum*, T6747 *Vicia faba*, T6861 *Zanthoxylum ailanthoides*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*, T6883 *Zanthoxylum myriacanthum*.

bleeding due to internal damage T5866 *Selaginella sanguinolenta*.

bleeding due to tympanites T1181 *Capra hircus*; *Ovis aries*.

bleeding during operation T3863 *Liparis nervosa*.

bleeding from dental extraction T1120 *Callicarpa macrophylla*.

bleeding from hemorrhoids T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0830 *Auricularia auricula*,

T0831 *Auricularia delicata*, T1112 *Calendula arvensis*, T1145 *Camellia japonica*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1747 *Corydalis thalictrifolia*, T3123 *Hedyotis auricularia*, T3244 *Hibiscus syriacus*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3659 *Lactuca indica*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4178 *Melodinus hemsleyanus*, T4203 *Mesua ferrea*, T4305 *Mosla dianthera*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4505 *Ophiocephalus argus*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T5099 *Polygonum bistorta*, T5173 *Portulaca oleracea*, T5176 *Potamogeton natans*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5372 *Quercus dentata*, T5569 *Rosa multiflora*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5685 *Salvia plebeia*, T5712 *Sanguisorba officinalis*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6522 *Trifolium repens*.

bleeding from wounds T3363 *Hypericum sampsonii*, T3560 *Jatropha curcas*, T5567 *Rosa laevigata*.

bleeding hemorrhoids T0267 *Ajuga nipponensis*, T5181 *Potentilla chinensis*, T5863 *Selaginella moellendorffii*.

bleeding knife wound T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3555 *Jasminum nudiflorum*, T3765 *Lepisorus ussuriensis*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5297 *Pteris plumbea*, T5389 *Rabdosia coetsa*.

bleeding of digestive tract T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0922 *Berchemia polyphylla* var. *leioclada*, T1116 *Callicarpa arborea*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T6745 *Vicia faba*, T6747 *Vicia faba*.

bleeding of skin T2323 *Eclipta prostrata* [Syn. *Eclipta alba*].

blood amassment yellowing T2435 *Eriochloa sinensis*.

blood and liquid depletion T1173 *Cannabis sativa*.

blood conglomeration T1210 *Carpesium abrotanoides*.

blood deficiency syndrome T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.

blood depletion and amenorrhea T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].

blood dizziness T3276 *Homo sapiens*.

blood dysentery T0249 *Agrimonia pilosa* var. *japonica*, T0302 *Alhagi pseudalhagi*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0601 *Ardisia pusilla*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0991 *Bos taurus domesticus*; *Bubalus bubalis*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1441 *Cinnamomum japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1896 *Cupressus funebris*, T2218 *Diospyros kaki*, T2281 *Dryopteris crassirhizoma*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T3145 *Helianthus annuus*, T3278 *Homo sapiens*, T4399 *Nelumbo nucifera*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4606 *Panax pseudo-ginseng*, T5372 *Quercus dentata*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T5712 *Sanguisorba officinalis*, T5966 *Siphonostegia chinensis*, T6006

Solanum melongena, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*].

blood ejection T0001 *Abelmoschus manihot*, T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T0248 *Agrimonia pilosa*, T0249 *Agrimonia pilosa* var. *japonica*, T0266 *Ajuga macrosperma*, T0322 *Allium tuberosum*, T0382 *Althaea rosea*, T0446 *Anaphalis margaritacea*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0598 *Ardisia japonica*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0687 *Artemisia myriantha*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T0722 *Arundo donax*, T0776 *Asplenium prolongatum*, T0860 *Balanophora japonica*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0890 *Begonia limprichtii*, T0923 *Bergenia crassifolia*, T0924 *Bergenia purpurascens*, T0952 *Blechnum orientale*, T0955 *Bletilla striata*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T0982 *Bos taurus domesticus*, T1043 *Bryophyllum pinnatum*, T1045 *Bubalus bubalis*, T1145 *Camellia japonica*, T1184 *Capsella bursa-pastoris*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1210 *Carpesium abrotanoides*, T1254 *Castanea mollissima*, T1311 *Centella asiatica*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1808 *Crocus sativus*, T1896 *Cupressus funebris*, T1907 *Curcuma wengujin*, T1928 *Cycas revoluta*, T1967 *Cynoglossum amabile*, T1969 *Cynoglossum officinale*, T1986 *Cyrtomium fortunei*, T2191 *Dioscorea bulbifera*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2221 *Diospyros kaki*, T2257 *Dracocephalum moldavicum*, T2281 *Dryopteris crassirhizoma*, T2290 *Duchesnea indica*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2407 *Equisetum arvense*, T2540 *Euonymus fortunei*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3054 *Gossypium barbadense*, T3055 *Gossypium herbaceum*, T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3241 *Hibiscus mutabilis*, T3276 *Homo sapiens*, T3277 *Homo sapiens*, T3278 *Homo sapiens*, T3318 *Hylotelephium mingjianum*, T3334 *Hypocoum leptocarpum*, T3349 *Hypericum erectum*, T3361 *Hypericum perforatum*, T3363 *Hypericum sampsonii*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3387 *Idesia polycarpa*, T3423 *Indigofera tinctoria*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3547 *Ixeris chinensis*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3769 *Lespedeza bicolor*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3881 *Lithospermum erythrorhizon*, T3954 *Lycium barbarum*, T3956 *Lycium chinense*, T3981 *Lycopus lucidus*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4121 *Marsilea quadrifolia*, T4127 *Matteuccia struthiopteris*, T4259 *Mnium cuspidatum*, T4398 *Nelumbo nucifera*, T4402 *Nelumbo nucifera*, T4413 *Nepeta cataria*, T4502 *Onychium*

japonicum [Syn. *Tricomanes japonicum*], T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T4549 *Osbeckia chinensis*, T4552 *Osmunda japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4582 *Paeonia delavayi*, T4584 *Paeonia lactiflora* wild, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4606 *Panax pseudo-ginseng*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4656 *Parmelia saxatilis*, T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T4730 *Peristrophe roxburghiana*, T5043 *Podocarpus macrophyllus*, T5045 *Podocarpus macrophyllus* var. *maki*, T5099 *Polygonum bistorta*, T5118 *Polygonum suffultum*, T5120 *Polygonum tinctorium*, T5121 *Polygonum tinctorium*, T5182 *Potentilla discolor*, T5230 *Prunus persica*, T5269 *Psilotum nudum*, T5295 *Pteris multifida*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T5372 *Quercus dentata*, T5419 *Raphanus sativus*, T5449 *Reineckea carnea*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T5497 *Rhodiola kirilowii*, T5518 *Rhododendron mucronatum*, T5523 *Rhododendron simsii*, T5529 *Rhodomyrtus tomentosa*, T5554 *Rodgersia aesculifolia*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5579 *Rubia cordifolia*, T5605 *Rumex acetosa*, T5607 *Rumex crispus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T5672 *Salvia flava*, T5673 *Salvia glutinosa*, T5685 *Salvia plebeia*, T5687 *Salvia prionitis*, T5701 *Salvia yunnanensis*, T5712 *Sanguisorba officinalis*, T5754 *Saussurea graminea*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5839 *Scutellaria hypericifolia*, T5840 *Scutellaria indica*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5850 *Sedum aizoon*, T5855 *Sedum kantschaticum*, T5862 *Selaginella involvens*, T5863 *Selaginella moellendorffii*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T5870 *Selaginella uncinata*, T5924 *Sesamum indicum*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6116 *Stenoloma chusanum*, T6119 *Stephania cepharantha*, T6367 *Teucrium quadrifarium*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6485 *Trachycarpus fortunei*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6601 *Umblicaria esculenta* [Syn. *Gyrophora esculenta*], T6615 *Uncaria gambir*, T6764 *Vinegar*, T6895 *Zanthoxylum simulans*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].

blood ejection due to blood heat T3340 *Hypericum ascyron*, T3416 *Imperata cylindrica* var. *major*, T4401 *Nelumbo nucifera*, T5133 *Polytrichum commune*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5851 *Sedum alfredii* [Syn. *Sedum formosanum*].

blood ejection due to internal damage T1566 *Clerodendrum inerme*.

blood ejection from knocks and falls T0529 *Anthriscus sylvestris*, T1448 *Cirsium chinense*.

blood heat T4398 *Nelumbo nucifera*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6036 *Sophora japonica*.

blood loss T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T3077 *Gymnadenia conopsea*.

blood qi pain T2835 *Galium verum*.

blood stagnation and menstrual block T1160 *Campsia grandiflora*.

blood stasis T2435 *Eriochloa sinensis*.

blood stasis and abdominal pain T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1492 *Citrus limon*, T1496 *Citrus limonia*, T6278 *Tagetes erecta*.

blood stasis and dysmenorrhea T1001 *Brachystemma calycinum*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T4450 *Nuphar pumilum*.

blood stasis and menstrual block T0383 *Alyxia sinensis*, T0999 *Bougainvillea glabra*.

blood stasis and qi stagnation T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.

blood stasis lumbago T5648 *Salacia prinoidea* [Syn. *Salacia chinensis*].

blood stasis swelling and pain T0108 *Aconitum kusnezoffii*, T0170 *Adhatoda vasica*, T0324 *Allium victorialis*, T1566 *Clerodendrum inerme*, T3853 *Lindera obtusiloba*, T5238 *Prunus salicina*, T5562 *Rosa chinensis*.

blood strangury T0073 *Achyranthes bidentata*, T0544 *Apium graveolens*, T0977 *Bombyx mori*, T1001 *Brachystemma calycinum*, T1145 *Camellia japonica*, T1210 *Carpesium abrotanoides*, T1311 *Centella asiatica*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1554 *Clerodendron cyrtophyllum*, T1907 *Curcuma wengujin*, T1924 *Cyathula officinalis*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2952 *Gerbera piloselloides*, T3002 *Glycine max*, T3143 *Helianthus annuus*, T3278 *Homo sapiens*, T3363 *Hypericum sampsonii*, T3645 *Kummerowia striata*, T3681 *Lamium barbatum*, T3737 *Lemnaphyllum microphyllum* var. *obovatum*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T3990 *Lygodium japonicum*, T4787 *Phellinus igniarius*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5838 *Scutellaria galericulata*, T5966 *Siphonostegia chinensis*, T6006 *Solanum melongena*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6582 *Tylophora ovata*, T6722 *Veronica anagallis-aquatica*, T6870 *Zanthoxylum bungeanum*.

blood strangury with inhibited pain T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

blood vacuity T3742 *Lentimus edodes*, T4238 *Milletia nitida*, T4308 *Mucuna birdwoodiana*, T4311 *Mucuna sempervirens*, T5042 *Podocarpus macrophyllus*, T5044 *Podocarpus macrophyllus* var. *maki*, T6066 *Spatholobus suberectus*.

blood vacuity and general weakness T4234 *Milletia dielsiana*, T4239

- Millettia nitida* var. *hirsutissima*, T5529 *Rhodomyrtus tomentosa*.
- blood vacuity and numbness in limbs** T5701 *Salvia yunnanensis*.
- blood vacuity during convalescence** T5179 *Potentilla anserina*.
- blood vacuity of women** T4438 *Nostoc flagelliforme*.
- blood vacuity with yellow complexion** T3129 *Hedysarum polybotrys*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- blood vacuity** T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T0495 *Angelica sinensis*, T1598 *Codonopsis convolvulacea*, T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T2347 *Embelia parviflora*, T4804 *Phlojodicarpus sibiricus*.
- bloody stool** T0600 *Ardisia mamillata* [Syn. *Timus mamillata*], T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1254 *Castanea mollissima*, T2927 *Gentiana rhodantha*, T5182 *Potentilla discolor*, T5754 *Saussurea graminea*, T5863 *Selaginella moellendorffii*, T5868 *Selaginella stauntoniana*.
- bloody urine** T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T3765 *Lepisorus ussuriensis*, T5868 *Selaginella stauntoniana*.
- bloody urine (hematuria)** T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*.
- blurred vision** T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*], T4656 *Parmelia saxatilis*, T5227 *Prunus mume*.
- body lichen** T0750 *Asparagus gobicus*, T5821 *Scopelia japonica*.
- boil** T4005 *Lysionotus pauciflorus*, T4253 *Mirabilis jalapa*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T6494 *Trema dielsiana*.
- boil and lichen** T2036 *Datura innoxia*, T2041 *Datura metel*, T2046 *Datura stramonium*.
- bone marrow infection** T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- bone stuck in throat** T1545 *Clematis chinensis*, T1982 *Cyprinus carpio*, T5569 *Rosa multiflora*.
- bone tuberculosis** T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T3564 *Juglans mandshurica*, T4005 *Lysionotus pauciflorus*, T5279 *Psychotria serpens*, T6105 *Stellera chamaejasme*, T6540 *Tripterygium hypoglaucom*.
- brain leak** T0988 *Bos taurus domesticus*; *Bubalus bubalis*, T4215 *Michelia yunnanensis*.
- brandy nose** T1160 *Campsis grandiflora*, T4020 *Macleaya cordata*.
- breast milk stoppage** T0156 *Actinidia arguta*, T0173 *Adiantum lunulatum*, T2720 *Ficus hispida*, T3270 *Holboellia fargesii*, T4120 *Marsdenia tenacissima*, T6777 *Viscum multinerve*.
- bronchial asthma** T1941 *Cymbopogon distans*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T3106 *Harpagophytum procumbens*, T3885 *Litsea cubeba*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T6820 *Wikstroemia indica*.
- bronchitis** T0151 *Acronychia pedunculata*, T0967 *Boeninghausenia sessilicarpa*, T1381 *Choerospondias axillaris*, T1943 *Cymbopogon goeringii*, T2565 *Eupatorium lindleyanum*, T2720 *Ficus hispida*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3056 *Gossypium herbaceum*, T3246 *Hibiscus syriacus*, T3568 *Juglans regia*, T3709 *Lathyrus pratensis*, T3749 *Leontopodium alpinum*, T4248 *Mimosa pudica*, T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], T4689 *Peganum nigellastrum*, T5072 *Polygala caudata*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6132 *Stephania sasakii*.
- bubo** T2601 *Euphorbia milii*.
- bulging mounting** T5740 *Sargassum vachellianum*.
- burns** T1084 *Buthus martensi*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T2988 *Glochidion eriocarpum*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T5018 *Pleuropterus ciliinervis*, T5549 *Ricinus communis*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6521 *Trifolium pratense*, T6691 *Veratrum baillonii*.
- burns and scalds** T0001 *Abelmoschus manihot*, T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0267 *Ajuga nipponensis*, T0299 *Aleurites cordata* [Syn. *Aleurites fordii*], T0382 *Althaea rosea*, T0421 *Amorpha fruticosa*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0540 *Apis cerana*, T0563 *Arachniodes exilis*, T0680 *Artemisia lactiflora*, T0776 *Asplenium prolongatum*, T0827 *Aucuba chinensis* ssp. *omeiensis*, T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T0853 *Baekkea frutescens*, T0879 *Bauhinia purpurea*, T0955 *Bletilla striata*, T1044 *Bryum argenteum*, T1137 *Caltha palustris*, T1146 *Camellia oleifera*, T1147 *Camellia oleifera*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1163 *Campylotropis hirtella*, T1251 *Cassiope filiformis*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1381 *Choerospondias axillaris*, T1437 *Cinnamomum camphora*, T1644 *Conocephalum conicum*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1758 *Cotinus coggygria*, T1759 *Cotinus coggygria* var. *cinerea*, T1878 *Cucumis sativus*, T2092 *Delphinus delphis*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2188 *Dioscorea alata*, T2243 *Dodonaea viscosa*, T2290 *Duchesnea indica*, T2293 *Dumortiera hirsuta*, T2327 *Elaeagnus angustifolia*, T2505 *Eucalyptus citriodora*, T2510 *Eucalyptus globulus*, T2536 *Euonymus alatus*, T2601 *Euphorbia milii*, T2658 *Fagopyrum esculentum*, T2715 *Fibraurea recisa*, T2839 *Gallus gallus domesticus*, T2852 *Garcinia cowa*, T2866 *Garcinia morella*, T2927 *Gentiana rhodantha*, T3241 *Hibiscus mutabilis*, T3361 *Hypericum perforatum*, T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*], T3387 *Idesia polycarpa*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3414 *Impatiens sicutifer*, T3479 *Isodon amethystoides*, T3775 *Lethariella cladonioides*, T3827 *Ligustrum japonicum*, T3845 *Linaria vulgaris*, T3932 *Ludwigia octovalvis*, T3969 *Lycopodium casuarinoides*, T3983 *Lycoris aurea*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T3990 *Lygodium japonicum*, T4026 *Macrothelypteris oligophlebia*, T4072 *Mahonia shenii*, T4109 *Marchantia polymorpha*,

- T4261 *Mollugo pentaphylla*, T4349 *Myrica rubra*, T4487 *Olea europaea*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4520 *Opuntia ficus-indica*, T4562 *Oxalis acetosella*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4705 *Peperomia pellucida*, T4798 *Philonotis fontana*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4937 *Piper betle*, T5101 *Polygonum cuspidatum*, T5156 *Populus nigra* var. *thevestina*, T5172 *Portulaca grandiflora*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5395 *Rabdosia nervosa*, T5444 *Reboulia hemisphaerica*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5499 *Rhodiola sacra*, T5614 *Rumex patientia*, T5650 *Salix babylonica*, T5712 *Sanguisorba officinalis*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5857 *Sedum sarmentosum*, T5859 *Selaginella braunii*, T5863 *Selaginella moellendorffii*, T5866 *Selaginella sanguinolenta*, T5867 *Selaginella sinensis*, T5870 *Selaginella uncinata*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T5976 *Smilax china* [Syn. *Smilax japonica*], T6025 *Sonchus arvensis*, T6087 *Spiranthes sinensis*, T6116 *Stenoloma chusanum*, T6234 *Swertia punicea*, T6264 *Syzygium buxifolium*, T6716 *Vernonia esculenta*, T6728 *Veronica serpyllifolia*, T6883 *Zanthoxylum myriacanthum*, T6884 *Zanthoxylum nitidum*, T6920 *Ziziphium mauritiana*.
- calculus of urinary system** T2838 *Gallus gallus domesticus*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T3998 *Lysimachia christinae*, T4248 *Mimosa pudica*.
- cancer of esophagus** T2263 *Dregea volubilis*.
- candida vaginitis** T5101 *Polygonum cuspidatum*.
- carcinoma** T0275 *Akebia quinata*, T0543 *Apis mellifera ligustica*, T1319 *Cephalotaxus hainanensis* [Syn. *Cephalotaxus manni*], T1322 *Cephalotaxus oliveri*, T1323 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*], T2191 *Dioscorea bulbifera*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2857 *Garcinia hanburyi*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3480 *Isodon angustifolia*, T3742 *Lentinus edodes*, T4120 *Marsdenia tenacissima*, T4131 *Maytenus confertiflorus*, T4134 *Maytenus hookeri*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5838 *Scutellaria galericulata*.
- carcinoma in digestive tract** T0156 *Actinidia arguta*, T3229 *Herichium erinaceus* [Syn. *Hydnum erinaceus*].
- carcinoma of cardia** T1162 *Camptotheca acuminata*.
- carcinoma of esophagus** T0161 *Actinidia eriantha*, T1162 *Camptotheca acuminata*, T1318 *Cephalotaxus fortunei*, T1831 *Crotalaria sessiliflora*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*], T2844 *Ganoderma applanatum*, T5129 *Polyporus umbellatus*, T5396 *Rabdosia rubescens*.
- carcinoma of intestine** T1162 *Camptotheca acuminata*.
- carcinoma of liver** T1162 *Camptotheca acuminata*, T1831 *Crotalaria sessiliflora*.
- carcinoma of lung** T1318 *Cephalotaxus fortunei*, T1831 *Crotalaria sessiliflora*, T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T5129 *Polyporus umbellatus*.
- carcinoma of mammary glands** T3443 *Iphigenia indica*, T5396 *Rabdosia rubescens*, T6311 *Taxus cuspidata*.
- carcinoma of ovary** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T6311 *Taxus cuspidata*.
- carcinoma of rectum** T1318 *Cephalotaxus fortunei*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*.
- carcinoma of salivary gland** T3443 *Iphigenia indica*.
- carcinoma of skin** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*].
- carcinoma of stomach** T0161 *Actinidia eriantha*, T1162 *Camptotheca acuminata*, T1318 *Cephalotaxus fortunei*, T1831 *Crotalaria sessiliflora*, T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T2263 *Dregea volubilis*, T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*].
- carcinoma of thyroid** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T4020 *Macleaya cordata*.
- carcinoma of uterine cervix** T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1831 *Crotalaria sessiliflora*, T3842 *Limonium gmelinii*, T4020 *Macleaya cordata*, T4903 *Pinellia pedatisecta*.
- carcinoma of vagina** T0830 *Auricularia auricula*, T0831 *Auricularia delicata*.
- cardiac failure** T0553 *Apocynum venetum*, T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T2175 *Digitalis lanata*, T2177 *Digitalis purpurea*, T2452 *Erysimum cheiranthoides*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T5141 *Poncirus trifoliata*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T6155 *Strophanthus divaricatus*, T6433 *Thevetia nerifolia* [Syn. *Thevetia peruviana*].
- cardiac insufficiency** T0184 *Adonis amurensis*.
- cardiovascular diseases** T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*].
- cassava poisoning** T3248 *Hibiscus tiliaceus*, T3685 *Lansea grandis* [Syn. *Lansea coromandelica*], T4503 *Onychium lucidum*.
- center qi fall** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1423 *Cimicifuga nanchuanensis*.
- center vacuity with stomachache** T5067 *Polyalthia nemoralis*.
- centipede bite** T3400 *Illicium difengpi*, T3403 *Illicium majus*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4835 *Phyllanthus emblica*, T6177 *Strychnos ignatii*, T6551 *Trogopterus xanthipes*; *Pteromys volans*.
- central angiospastic retinitis** T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*.
- central retinitis** T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*.
- cerebral and cardiovascular diseases** T6775 *Viscum coloratum*.
- cerebral atherosclerosis** T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- cerebral ischemia** T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*],

- T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*].
- cerebral thrombosis** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T1215 *Carthamus tinctorius*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- cerebrovascular insufficiency diseases** T2961 *Ginkgo biloba*.
- cervical erosion** T0543 *Apis mellifera ligustica*.
- cervicitis** T6008 *Solanum nigrum*.
- chancres** T2200 *Dioscorea hispida*, T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*].
- chest and rib-side pain** T0491 *Angelica polymorpha*, T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtshaninovii* f. *yanhusuo*], T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T2555 *Eupatorium chinense*, T4163 *Melia toosendan*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4823 *Pholidota yunnanensis*.
- chest and rib-side stabbing pain** T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*].
- chest impediment** T0313 *Allium chinense*, T0316 *Allium macrostemon*, T0322 *Allium tuberosum*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2546 *Euonymus sacrosancta*, T3869 *Liquor*, T4221 *Micromelum falcatum*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*].
- chest impediment and angina** T5661 *Salvia bowleyana*, T5671 *Salvia digitaloides*, T5701 *Salvia yunnanensis*.
- chest impediment and heart pain** T2964 *Ginkgo biloba*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*.
- chest oppression and pain** T5497 *Rhodiola kirilowii*.
- chest oppression with cough asthma** T2697 *Ferula borealis*, T3432 *Inula helianthus-aquatica*.
- chest oppression with retching** T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*.
- chest pain** T1381 *Choerospondias axillaris*, T3797 *Libanotis condensata*.
- chest pain due to cough** T0045 *Acanthopanax trifoliatus*.
- child aphonia** T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*, T5406 *Rana limnocharis*.
- child convulsion** T2890 *Gastrodia elata*.
- child epilepsy** T1660 *Coprinus atramentarius*.
- child food accumulation** T0847 *Baccharis indica* [Syn. *Pluchea indica*], T1954 *Cynanchum chinense*.
- child fright epilepsy** T2836 *Gallus gallus domesticus*, T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*.
- child gan accumulation** T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*, T0387 *Amaranthus caudatus*, T0500 *Anguilla japonica*, T0941 *Bidens tripartita*, T0950 *Blatta orientalis*, T0969 *Boerhavia diffusa*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1143 *Calystegia hederacea*, T1188 *Caragana chamlagu*, T1211 *Carpesium abrotanoides*, T1238 *Cassia mimosoides*, T1247 *Cassia sophera*, T1563 *Clerodendron trichotomum*, T1684 *Cordylina stricta*, T1815 *Crotalaria assamica*, T1826 *Crotalaria mucronata*, T1831 *Crotalaria sessiliflora*, T1954 *Cynanchum chinense*, T1958 *Cynanchum otophyllum*, T2020 *Damnacanthus indicus*, T2049 *Daucus carota*, T2267 *Drosera peltata* var. *lunata*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2422 *Erigeron breviscapus*, T2502 *Eucalyptus camaldulensis*, T2838 *Gallus gallus domesticus*, T3770 *Lespedeza cuneata*, T3950 *Lychnis fulgens*, T3999 *Lysimachia clethroides*, T4000 *Lysimachia congestiflora*, T4240 *Milletia pachycarpa*, T4526 *Origanum vulgare*, T4549 *Osbeckia chinensis*, T4843 *Phyllanthus urinaria*, T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*, T5071 *Polygala arillata*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5104 *Polygonum hydropiper*, T5122 *Polygonum viscosum*, T5183 *Potentilla griffithii* var. *velutina*, T5189 *Pothos chinensis*, T5384 *Quisqualis indica*, T5385 *Quisqualis indica*, T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T5848 *Securinega suffruticosa*, T6229 *Swertia patens*, T6285 *Tamarindus indica*, T6489 *Tragopogon porrifolius*, T6831 *Woodwardia orientalis*.
- child gan accumulation with fever** T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T3954 *Lycium barbarum*, T3956 *Lycium chinense*.
- child gan fever** T0607 *Arenaria juncea*, T0678 *Artemisia japonica*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T3932 *Ludwigia octovalvis*, T5955 *Silene jensenseensis*, T6104 *Stellaria dichotoma* var. *lanceolata*.
- child gan sore** T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*.
- child head sore** T2348 *Embelia ribes*.
- child heat sore** T5407 *Rana nigromaculata*; *Rana plancyi*.
- child indigestion** T2715 *Fibraurea recisa*, T2840 *Gallus gallus domesticus*, T5114 *Polygonum polystachyum*, T5375 *Quercus mongolica*, T6145 *Stichopus japonicus*.
- child jaundice** T5101 *Polygonum cuspidatum*.
- child measles** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1425 *Cimicifuga simplex*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5818 *Scoparia dulcis*.
- child milk accumulation** T3840 *Limnophila rugosa*.
- child mounting qi** T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*.
- child oxyuria disease** T6827 *Wisteria sinensis*.
- child wind papules** T0382 *Althaea rosea*.
- children wind-heat** T0434 *Amsonia sinensis*.
- cholangitis** T5957 *Silybum marianum*.
- cholecystalgia** T0501 *Anisodus luridus*, T0825 *Atropa belladonna*.
- cholecystitis** T0137 *Aconitum tanguticum*, T0646 *Armillariella tabescens*, T0647 *Armoracia lapathifolia*, T0912 *Berberis poiratii*, T0920 *Berberis wilsonae*, T1406 *Chrysosplenium nudicaule*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T2233 *Diploclisia glaucescens*, T2941 *Gentianopsis paludosa*, T3156 *Helichrysum arenarium*, T3332 *Hypocoum erectum*, T3334 *Hypocoum leptocarum*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3547 *Ixeris chinensis*, T4194 *Menyanthes trifoliata*, T4391 *Nauclea officinalis*, T5247 *Przewalskia*

- tangutica*, T5397 *Rabdosia serra*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5867 *Selaginella sinensis*, T6095 *Stachytarpheta jamaicensis*, T6227 *Swertia mussotii*, T6234 *Swertia punicea*, T6789 *Vitex negundo*, T6901 *Zea mays*.
- cholera** T0318 *Allium sativum*, T1153 *Camellia sinensis* var. *assamica*, T1262 *Catalpa ovata*, T4086 *Malus asiatica*, T6056 *Sorghum vulgare*.
- cholera cramp** T4983 *Pisum sativum*, T6439 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*].
- cholera with vomiting** T2216 *Diospyros ebenum*.
- cholera with vomiting and diarrhea** T4190 *Mentha spicata*, T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*.
- cholera with vomiting of sour matter** T4548 *Oryza sativa* var. *glutinosa*.
- chorioblastoma** T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- chorionitis** T2753 *Formica fusca*.
- chronic anemia** T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.
- chronic appendicitis** T6705 *Verbascum thapsus*.
- chronic bacillary dysentery** T0130 *Aconitum sinomontanum*.
- chronic bone marrow infection** T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*].
- chronic bronchitis** T0553 *Apocynum venetum*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T1357 *Chelidonium majus*, T1943 *Cymbopogon goeringii*, T2023 *Daphne genkwa*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium suchuenense*, T2406 *Epimedium wushanense*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3284 *Houttuynia cordata*, T3828 *Ligustrum lucidum*, T3885 *Litsea cubeba*, T4005 *Lysionotus pauciflorus*, T4796 *Pheretima aspergillum*, *Allolobophora caliginosa trapezoides*, T5508 *Rhododendron dauricum*, T5989 *Solanum aculeatissimum*, T6008 *Solanum nigrum*, T6014 *Solanum surattense*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*], T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6574 *Tussilago farfara*.
- chronic cervicitis** T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- chronic cholecystitis** T0897 *Berberis amurensis*, T6691 *Veratrum baillonii*.
- chronic conjunctivitis** T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*].
- chronic constipation** T4976 *Piptanthus nepalensis*, T5309 *Pterocladia tenuis*.
- chronic cough and asthma** T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T4851 *Physalis minima*, T5637 *Sabia schumanniana*.
- chronic diarrhea** T0197 *Aegle marmelos*, T0255 *Ailanthus altissima*, T0542 *Apis cerana*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1425 *Cimicifuga simplex*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1826 *Crotalaria mucronata*, T2053 *Davallia mariesii*, T3077 *Gymnadenia conopsea*, T4400 *Nelumbo nucifera*, T4635 *Papaver somniferum*, T4637 *Papaver somniferum*, T5169 *Poria cocos*, T5270 *Psoralea corylifolia*, T5327 *Punica granatum*, T5328 *Punica granatum*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5554 *Rodgersia aesculifolia*, T6347 *Terminalia chebula*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6670 *Vaccinium bracteatum*.
- chronic diarrhea and dysentery** T3567 *Juglans regia*, T5228 *Prunus mume*, T5568 *Rosa laevigata*, T6266 *Syzygium cumini*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*, T6670 *Vaccinium bracteatum*.
- chronic dysentery** T0255 *Ailanthus altissima*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T2032 *Daphniphyllum calycinum*, T2050 *Daucus carota* var. *sativa*, T2051 *Daucus carota* var. *sativa*, T4635 *Papaver somniferum*, T5265 *Psidium guajava*, T5327 *Punica granatum*, T5328 *Punica granatum*, T5332 *Punica granatum*, T5569 *Rosa multiflora*, T5654 *Salix purpurea*, T6251 *Symplocos caudata*, T6267 *Syzygium jambos*, T6347 *Terminalia chebula*, T6474 *Toona ciliata*, T6475 *Toona sinensis*.
- chronic eczema** T2651 *Excoecaria cochinchinensis* var. *viridis*.
- chronic endometritis** T2715 *Fibraurea recisa*.
- chronic enteritis** T0130 *Aconitum sinomontanum*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*.
- chronic fright wind** T1210 *Carpesium abrotanoides*, T2037 *Datura innoxia*, T2044 *Datura metel*, T2890 *Gastrodia elata*, T5817 *Scolopendra subspinipes mutilans*.
- chronic gastritis** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1101 *Caesalpinia decapetala*, T3164 *Helicteres isora*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*].
- chronic gastroenteritis** T0501 *Anisodus luridus*, T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T3085 *Gynostemma pentaphyllum*, T5247 *Przewalskia tangutica*.
- chronic glomerulonephritis** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T3416 *Imperata cylindrica* var. *major*.
- chronic hepatitis** T0048 *Acanthus ilicifolius*, T0541 *Apis cerana*, T0680 *Artemisia lactiflora*, T0897 *Berberis amurensis*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1876 *Cucumis melo*, T1927 *Cycas revoluta*, T3077 *Gymnadenia conopsea*, T3742 *Lentinus edodes*, T5396 *Rabdosia rubescens*, T5607 *Rumex crispus*, T5957 *Silybum marianum*.
- chronic ischiatis** T5848 *Securinega suffruticosa*.
- chronic leukemia** T1162 *Camptotheca acuminata*.

- chronic liver diseases** T6231 *Swertia pseudochinensis*.
- chronic medullitis** T1556 *Clerodendron fragrans*.
- chronic nephritis** T0423 *Ampelopsis brevipedunculata*, T0495 *Angelica sinensis*, T0598 *Ardisia japonica*, T1553 *Clerodendranthus spicatus*, T2327 *Elaeagnus angustifolia*, T3128 *Hedysarum multijugum*, T4804 *Phlojodicarpus sibiricus*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T6540 *Tripterygium hypoglaucum*.
- chronic osteomyelitis** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*].
- chronic pain in lumbus and legs** T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*].
- chronic pharyngitis** T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*].
- chronic pharyngolaryngitis** T6507 *Trichosanthes cucumeroides*.
- chronic rheumatic arthritis** T1180 *Capparis spinosa*, T2749 *Fomes officinalis*.
- chronic scab** T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.
- chronic sinus infections** T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- chronic sores** T6132 *Stephania sasakii*.
- chronic trachitis** T0598 *Ardisia japonica*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1655 *Conyza blinii*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2327 *Elaeagnus angustifolia*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3085 *Gynostemma pentaphyllum*, T4908 *Pinus bungeana*, T5522 *Rhododendron seniavinii*, T5607 *Rumex crispus*, T6008 *Solanum nigrum*, T6105 *Stellera chamaejasme*, T6729 *Veronica spuria*, T6787 *Vitex negundo*.
- chronic tympanitis** T1570 *Clerodendrum thomsonae*.
- chronic ulcer** T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.
- chronic urticaria** T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*].
- chronic uterine cervical infection** T3284 *Houttuynia cordata*.
- chronic wound ulcer** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*.
- chyluria** T1184 *Capsella bursa-pastoris*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3143 *Helianthus annuus*, T3646 *Kyllinga brevifolia*, T5098 *Polygonum aviculare*.
- cinnabar toxin** T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*].
- cirrhosis** T0853 *Baeckea frutescens*, T1876 *Cucumis melo*, T5957 *Silybum marianum*.
- cirrhosis with ascites** T0553 *Apocynum venetum*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T2727 *Ficus simplicissima*, T5844 *Scutellaria scordifolia*, T6436 *Thlaspi arvense*.
- clavus** T0318 *Allium sativum*, T0543 *Apis mellifera ligustica*.
- clear-eye blindness** T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T1185 *Capsella bursa-pastoris*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T6732 *Vespertilio superans*.
- clear-eye blindness with internal obstruction** T1981 *Cyprinus carpio*.
- clenched jaw** T3000 *Glycine max*.
- climacteric hypertension** T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*.
- clouded flowery vision** T0049 *Acer ginnala*, T0793 *Astragalus complanatus*.
- clouded spirit** T4855 *Physeter catodon*.
- clouded spirit with delirious speech** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T4401 *Nelumbo nucifera*.
- clouded spirit with loss of speech** T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- clove boil** T1372 *Chloranthus serratus*, T2243 *Dodonaea viscosa*.
- clove boil and swollen welling abscess** T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*.
- clove sore** T0195 *Aeginetia indica*, T0595 *Ardisia crispa*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0805 *Astragalus sinicus*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1197 *Cardiospermum halicacabum*, T1275 *Cayratia japonica*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1403 *Chrysosplenium grayanum*, T1448 *Cirsium chinense*, T1565 *Clerodendrum bungei*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2580 *Euphorbia antiquorum*, T2590 *Euphorbia hirta*, T2649 *Evolvulus alsinoides*, T2897 *Gelsemium elegans*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3411 *Impatiens balsamina*, T3928 *Lotus corniculatus*, T3997 *Lysimachia capillipes*, T4206 *Metaplexis japonica*, T4428 *Nicotiana tabacum*, T4530 *Ormosia hosiei*, T4836 *Phyllanthus emblica*, T4837 *Phyllanthus emblica*, T4846 *Physalis alkekengi* var. *franchetii*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T4917 *Pinus massoniana*, T5097 *Polygonum amphibium*, T5194 *Premna microphylla*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5651 *Salix babylonica*, T5750 *Saururus chinensis*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5894 *Senecio oryzetorum*, T5993 *Solanum capsicastrum*, T6005 *Solanum lyratum*, T6008 *Solanum nigrum*, T6015 *Solanum torvum*, T6205 *Sus scrofa*, T6279 *Tagetes erecta*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- clove sore and eczema** T2691 *Farfugium japonicum*.
- clove sore and swollen boil** T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1831 *Crotalaria sessiliflora*, T2835 *Galium verum*, T4004 *Lysimachia paridiformis*.
- clove sore and swollen welling abscess** T1709 *Corydalis bungeana*, T1884 *Cudrania cochinchinensis*.
- clove sore of nose** T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*.
- clove sore running yellow** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].
- clove sore scrofula** T5975 *Smilax bockii*.

- clove sore tubercle** T3983 *Lycoris aurea*.
- clove sore with fever** T6735 *Viburnum dilatatum*.
- clove toxin sores** T1353 *Changium smyrnioides*.
- cns depression** T0184 *Adonis amurensis*.
- cold asthma** T6261 *Syringa pinnatifolia*.
- cold damage febrile disease** T1179 *Capparis masaikai*.
- cold damage mania** T1808 *Crocus sativus*.
- cold dysentery** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T4714 *Perilla frutescens*, T6860 *Zanthoxylum ailanthoides*.
- cold impediment in lumbus and knees** T1901 *Curculigo orchioides*.
- cold limbs and faint pulse** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T4599 *Panax ginseng* [Syn. *Panax schinseng*].
- cold malaria** T1170 *Canis familiaris*.
- cold mounting** T0472 *Anethum graveolens*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2744 *Foeniculum vulgare*, T2745 *Foeniculum vulgare*, T4954 *Piper longum*, T6488 *Trachyspermum ammi*.
- cold mounting with abdominal pain** T1441 *Cinnamomum japonicum*, T1889 *Cuminum cyminum*, T1978 *Cyperus rotundus*, T2636 *Euscaphis japonica*, T3409 *Illicium verum*, T3885 *Litsea cubeba*, T4550 *Osmanthus fragrans*, T4944 *Piper cubeba*, T6877 *Zanthoxylum dissitum*.
- cold mounting with pain** T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0108 *Aconitum kusnezoffii*.
- cold pain in abdomen** T0322 *Allium tuberosum*, T0360 *Alpinia oxyphylla*, T0472 *Anethum graveolens*, T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T2087 *Delphinium tatsienense*, T4283 *Morinda officinalis*.
- cold pain in chest and abdomen** T3868 *Liquidambar orientalis*.
- cold pain in heart and abdomen** T0077 *Aconitum balfourii*, T0083 *Aconitum carmichaeli*, T0084 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T0105 *Aconitum karakolicum*, T0106 *Aconitum kirinense*, T0108 *Aconitum kusnezoffii*, T0138 *Aconitum umbrosum*, T0363 *Alpinia speciosa*, T1021 *Brassica rapa*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2037 *Datura innoxia*, T2044 *Datura metel*, T2695 *Ferula assafoetida*, T3250 *Hierochloa odorata*, T3869 *Liquor*, T6860 *Zanthoxylum ailanthoides*.
- cold pain in lesser-abdomen** T2744 *Foeniculum vulgare*, T6528 *Trigonella foenum-graecum*.
- cold pain in lumbus and knees** T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*], T0993 *Boschniakia rossica*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4536 *Orobanchae coerulescens*, T5270 *Psoralea corylifolia*.
- cold pain in stomach duct** T0418 *Amomum muricarpum*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1812 *Crossostephium chinense*.
- cold pain in stomach duct and abdomen** T0318 *Allium sativum*, T0359 *Alpinia officinarum*, T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T1113 *Calendula officinalis*, T1217 *Carum carvi*, T1441 *Cinnamomum japonicum*, T1889 *Cuminum cyminum*, T1939 *Cymbopogon citratus*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3222 *Heracleum scabridum*, T3409 *Illicium verum*, T3436 *Inula nervosa*, T3620 *Kaempferia galanga*, T3746 *Leontice robustum*, T3850 *Lindera glauca*, T3852 *Lindera megaphylla*, T3885 *Litsea cubeba*, T4550 *Osmanthus fragrans*, T4944 *Piper cubeba*, T4953 *Piper longum*, T4956 *Piper mullesua*, T6261 *Syringa pinnatifolia*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], T6488 *Trachyspermum ammi*, T6858 *Zanthoxylum acanthopodium*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*, T6909 *Zingiber officinale*.
- cold pain of joints** T0354 *Alpinia chinensis*.
- cold qi retching** T4954 *Piper longum*.
- cold rheum** T6860 *Zanthoxylum ailanthoides*.
- cold rheum asthma cough** T6909 *Zingiber officinale*.
- cold rheum cough** T1007 *Brassica juncea*, T5755 *Saussurea involucrata*.
- cold stagnation lumbago** T1217 *Carum carvi*.
- cold stomachache** T5715 *Santalum album*.
- cold suppurative sore** T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*.
- cold-damp abdominal pain** T1641 *Conioselinum vaginatum*.
- cold-damp accumulation and obstruction** T0363 *Alpinia speciosa*.
- cold-damp ascites** T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*].
- cold-damp diarrhea** T0680 *Artemisia lactiflora*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T4966 *Piper sarmetosum*.
- cold-damp diarrhea and dysentery** T0957 *Blumea balsamifera*.
- cold-damp dribbling urination and turbid urine** T4944 *Piper cubeba*.
- cold-damp impediment pain** T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1441 *Cinnamomum japonicum*, T1444 *Cinnamomum tamala*, T3885 *Litsea cubeba*, T6909 *Zingiber officinale*.
- cold-damp red swelling** T0319 *Allium schoenoprasum*.
- cold-damp vaginal discharge** T3222 *Heracleum scabridum*.
- cold-damp vomiting and diarrhea** T0353 *Alpinia blepharocalyx*, T1435 *Cinnamomum camphora*.
- cold-damp water drum distention** T3885 *Litsea cubeba*.
- cold-heat headache** T0212 *Agastache rugosus*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*.
- cold-heat in turn** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonrifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- cold-heat warm malaria** T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*.
- colic of gastrointestinal tract** T0825 *Atropa belladonna*.
- coma** T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T2274 *Dryobalanops aromatica*.
- common cold** T0011 *Abrus precatorius*, T0015 *Abutilon indicum*, T0099

Aconitum gymnanthum, T0151 *Acronychia pedunculata*, T0318 *Allium sativum*, T0730 *Asarum sagittarioides*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongolicus*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0932 *Betula luminifera*, T0952 *Blechnum orientale*, T0964 *Boenninghausenia albiflora*, T0967 *Boenninghausenia sessilicarpa*, T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1373 *Chloranthus serratus*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1393 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1446 *Cipadessa baccifera*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1545 *Clematis chinensis*, T1555 *Clerodendron fortunatum*, T1573 *Clinopodium chinense*, T1633 *Commelina communis*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1784 *Cratogeomys cochinchinense*, T1785 *Cratogeomys prunifolium*, T1986 *Cyrtomium fortunei*, T2263 *Dregea volubilis*, T2267 *Drosera peltata* var. *lunata*, T2279 *Dryopteris championii*, T2290 *Duchesnea indica*, T2334 *Elephantopus scaber*, T2340 *Elsholtzia bodinieri*, T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T2521 *Eucalyptus tereticornis*, T2563 *Eupatorium japonicum*, T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*], T2691 *Farfugium japonicum*, T2697 *Ferula borealis*, T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*, T3323 *Hymenodictyon excelsum*, T3360 *Hypericum patulum*, T3381 *Hyptis suaveolens*, T3495 *Isodon irrorata*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3779 *Leucas aspera*, T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*], T4003 *Lysimachia microcarpa*, T4121 *Marsilea quadrifolia*, T4188 *Mentha rotundifolia*, T4190 *Mentha spicata*, T4248 *Mimosa pudica*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4320 *Murraya kwangsiensis*, T4335 *Mussaenda pubescens*, T4423 *Nicandra physaloides*, T4503 *Onychium lucidum*, T4773 *Peucedanum terebinthaceum*, T4798 *Philonotis fontana*, T4810 *Phlomis mongolica*, T4814 *Phlomis umbrosa*, T4848 *Physalis angulata*, T4852 *Physalis peruviana*, T4854 *Physalis pubescens*, T5298 *Pteris vittata*, T5401 *Rabdosia yunnanensis*, T5519 *Rhododendron mucronulatum*, T5592 *Rubus hirsutus*, T5609 *Rumex hastatus*, T5714 *Sansevieria trifasciata*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*], T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5963 *Sinodielsia yunnanensis*, T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T5969 *Sium latifolium*, T6075 *Spilanthes acmella*, T6106 *Stelmatocrypton khasianum*, T6133 *Stephania sinica*, T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*, T6359 *Teucrium bidentatum*, T6521 *Trifolium pratense*, T6645 *Urena lobata*, T6722 *Veronica anagallis-aquatica*, T6731 *Veronicastrum sibiricum*, T6738 *Viburnum odoratissimum*, T6787 *Vitex*

negundo, T6788 *Vitex negundo*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].

common cold (root) T5317 *Pueraria peduncularis*.

common cold due to wind-cold T4714 *Perilla frutescens*, T4938 *Piper boehmeriaefolium*, T5167 *Porana racemosa*.

common cold in early stage T2756 *Forsythia suspensa*.

common cold with cough T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1675 *Corchorus olitorius*, T2157 *Dichotomanthes tristianaecarpa*, T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T3006 *Glycosmis citrifolia*, T3674 *Laggera alata*, T3997 *Lysimachia capillipes*, T4223 *Micromelum integerrimum*, T4261 *Mollugo pentaphylla*, T4284 *Morinda parvifolia*, T4616 *Pandanus tectorius*.

common cold with fever T0045 *Acanthopanax trifoliatum*, T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0137 *Aconitum tanguticum*, T0171 *Adiantum capillus-veneris*, T0174 *Adiantum monochlamys*, T0229 *Ageratum conyzoides*, T0374 *Alstonia scholaris*, T0378 *Alstonia yunnanensis*, T0379 *Alternanthera philoxeroides*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T0591 *Ardisia arborescens*, T0942 *Biebersteinia heterostemon*, T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*], T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1251 *Cassytha filiformis*, T1258 *Casuarina equisetifolia*, T1410 *Chukrasia tabularis*, T2131 *Desmodium pulchellum* [Syn. *Phyllocladon pulchellum*], T2257 *Dracocephalum moldavicum*, T2282 *Dryopteris filix-mas*, T2720 *Ficus hispida*, T2757 *Forsythia viridissima*, T2902 *Gentiana algida*, T2941 *Gentianopsis paludosa*, T2989 *Glochidion sphaerogynum*, T3123 *Hedyotis auricularia*, T3163 *Helicteres angustifolia*, T3332 *Hypocoum erectum*, T3334 *Hypocoum leptocarpum*, T3398 *Ilex rotunda*, T3555 *Jasminum nudiflorum*, T3645 *Kummerowia striata*, T3769 *Lespedeza bicolor*, T3830 *Ligustrum sinense*, T3932 *Ludwigia octovalvis*, T3990 *Lygodium japonicum*, T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4154 *Melaleuca leucadendra*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4514 *Ophiorrhiza pumila*, T4526 *Origanum vulgare*, T4834 *Phyllanthus emblica*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5423 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5595 *Rubus parviflorus*, T5626 *Ruta graveolens*, T5685 *Salvia plebeia*, T5687 *Salvia prionitis*, T5754 *Saussurea graminea*, T5767 *Saussurea pulchella*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5836 *Scutellaria discolor*, T6116 *Stenoloma chusanum*, T6252 *Symplocos chinensis*, T6277 *Tadehagi triquetrum*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6581 *Tylophora mollissima*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].

- common cold with fever and chills** T1384 *Chondrus ocelladus*.
- common cold with headache** T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0557 *Aquilegia ecalcarata*, T1939 *Cymbopogon citratus*, T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*], T2189 *Dioscorea althaeoides*, T2258 *Dracocephalum rupestre*, T3432 *Inula helianthus-aquatica*, T4002 *Lysimachia foenum-graecum*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4470 *Ocimum basilicum*, T4663 *Passiflora caerulea*, T5000 *Plagiogyria stenoptera*, T5391 *Rabdosia eriocalyx*, T5396 *Rabdosia rubescens*, T6888 *Zanthoxylum planispinum*.
- common cold with headache and fever** T3646 *Kyllinga brevifolia*.
- common cold with headache and nasal congestion** T2422 *Erigeron breviscapus*.
- common cold without sweating** T0610 *Argemone mexicana*.
- common wart** T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*].
- concretion and accumulation** T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*.
- concretion and accumulation with glomus distention** T5103 *Polygonum hydropiper*.
- concretion and conglomeration** T0073 *Achyranthes bidentata*, T0584 *Arctium lappa*, T0661 *Artemisia anomala*, T1160 *Campsis grandiflora*, T1215 *Carthamus tinctorius*, T1406 *Chrysosplenium nudicaule*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1735 *Corydalis repens*, T1858 *Croton tiglium*, T2132 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], T2384 *Epicauta gorhami*, T2536 *Euonymus alatus*, T2546 *Euonymus sacrosancta*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2695 *Ferula assafoetida*, T3412 *Impatiens balsamina*, T3671 *Lagerstroemia indica*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3980 *Lycopus lucidus*, T4036 *Magnolia coco*, T4106 *Manis pentadactyla*, T4338 *Mylabris phalerata*; *Mylabris cichorii*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4607 *Panax pseudo-ginseng* var. *japonicus*, T5101 *Polygonum cuspidatum*, T5231 *Prunus persica*, T5233 *Prunus persica*, T5594 *Rubus parkeri*, T5701 *Salvia yunnanensis*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6497 *Tribulus terrestris*, T6764 *Vinegar*, T6831 *Woodwardia orientalis*.
- concretion and conglomeration (root)** T1113 *Calendula officinalis*.
- concretion and conglomeration with mass** T1001 *Brachystemma calycinum*, T1907 *Curcuma wengujin*.
- concretion conglomeration accumulation and gathering** T0164 *Actinidia polygama*, T0950 *Blatta orientalis*, T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T2596 *Euphorbia kansui*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4855 *Physeter catodon*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5723 *Sapium sebiferum*, T5966 *Siphonostegia chinensis*, T6062 *Sparganium stoloniferum*, T6257 *Syngnathus acus*, T6709 *Verbena officinalis*.
- congesting lung** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- congestive cardiac failure** T0184 *Adonis amurensis*, T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*], T4418 *Nerium indicum*.
- conjunctivitis** T1655 *Conyza blinii*, T1709 *Corydalis bungeana*, T2334 *Elephantopus scaber*, T2715 *Fibraurea recisa*, T2720 *Ficus hispida*, T2721 *Ficus microcarpa*, T3969 *Lycopodium casuarinoides*, T4215 *Michelia yunnanensis*, T4248 *Mimosa pudica*, T4976 *Piptanthus nepalensis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5892 *Senecio nemorensis*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6060 *Souliea vaginata*, T6214 *Swertia chinensis*, T6217 *Swertia davidii*, T6278 *Tagetes erecta*, T6374 *Thalictrum atriplex*.
- constipation** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*, T0462 *Anemarrhena asphodeloides*, T0495 *Angelica sinensis*, T0572 *Aralia elata*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1101 *Caesalpinia decapetala*, T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1241 *Cassia occidentalis*, T1242 *Cassia occidentalis*, T1291 *Celastrus paniculatus*, T1356 *Cheiranthus cheiri*, T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T2612 *Euphorbia prolifera*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2999 *Glycine max*, T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*], T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*], T3845 *Linaria vulgaris*, T3935 *Luffa cylindrica*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4665 *Passiflora edulis*, T4804 *Phlojodicarpus sibiricus*, T5137 *Poncirus trifoliata*, T5231 *Prunus persica*, T5244 *Prunus tomentosa*, T5272 *Psorospermum febrifugum*, T5419 *Raphanus sativus*, T5420 *Raphanus sativus*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5461 *Rhamnus leptophylla*, T5605 *Rumex acetosa*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6206 *Sus scrofa domestica*, T6285 *Tamarindus indica*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*].
- constipation with abdominal pain** T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*.
- constrictive aortitis** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- consumption cough and hemoptysis** T0781 *Aster tataricus*, T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria wahjuewii*, T6574 *Tussilago farfara*.
- consumption cough with phlegm and blood** T2927 *Gentiana rhodantha*.
- consumption damage and cough** T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*].
- contracture of muscles and joints** T6069 *Speranskia tuberculata*.

- contracture pain in stomach duct and abdomen** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].
- contusion from knocks and falls** T6866 *Zanthoxylum avicennae*.
- contusion in chest and rib-side** T3431 *Inula helenium*, T3437 *Inula racemosa*.
- contusion in joints** T3560 *Jatropha curcas*.
- convulsion** T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1084 *Buthus martensi*, T1841 *Croton caudatus* var. *tomentosus*, T2274 *Dryobalanops aromatica*, T2890 *Gastrodia elata*, T4957 *Piper nigrum*, T5817 *Scolopendra subspinipes mutilans*, T6497 *Tribulus terrestris*.
- convulsion due to high fever** T2995 *Gloriosa superba*.
- convulsion due to liver heat and liver wind** T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- convulsion of hands and feet** T4696 *Penaeus orientalis*.
- convulsion of limbs** T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*].
- convulsion with cold limbs** T1332 *Cercidiphyllum japonicum*.
- cootie** T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*.
- copper coin lichen** T2963 *Ginkgo biloba*, T4358 *Myroxyylon pereirae*.
- cor pulmonale** T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*].
- corn and common wart** T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*].
- corneal nephelium** T5100 *Polygonum chinense*.
- coronary heart disease** T0644 *Armillaria mellea*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T4487 *Olea europaea*, T4953 *Piper longum*.
- coronary heart disease with pattern of qi stagnation and blood stasis** T5715 *Santalum album*.
- cough** T0015 *Abutilon indicum*, T0151 *Acronychia pedunculata*, T0301 *Aleuritopteris argentea*, T0364 *Alsophila spinulosa*, T0444 *Ananas comosus*, T0471 *Anemone rivularis*, T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T0571 *Aralia decaisneana*, T0584 *Arctium lappa*, T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*], T0784 *Astilbe chinensis*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0923 *Bergenia crassifolia*, T0926 *Berneuxia thibetica*, T1021 *Brassica rapa*, T1087 *Buxus bodinieri*, T1165 *Canarium album*, T1194 *Carassius auratus*, T1258 *Casuarina equisetifolia*, T1357 *Chelidonium majus*, T1359 *Chenopodium album*, T1373 *Chloranthus serratus*, T1440 *Cinnamomum glanduliferum*, T1529 *Cladonia verticillata*, T1555 *Clerodendron fortunatum*, T1751 *Corylus heterophylla*, T1796 *Crinum asiaticum* var. *sinicum*, T1933 *Cyclea sutchuenensis*, T1967 *Cynoglossum amabile*, T2050 *Daucus carota* var. *sativa*, T2056 *Debregeasia longifolia*, T2101 *Dendrobium fimbriatum*, T2119 *Derris eriocarpa*, T2221 *Diospyros kaki*, T2258 *Dracocephalum rupestre*, T2268 *Drosera rotundifolia*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2521 *Eucalyptus tereticornis*, T2563 *Eupatorium japonicum*, T2749 *Fomes officinalis*, T2752 *Fordia cauliflora*, T2994 *Gloiopeltis furcata*, T3040 *Gomphrena globosa*, T3056 *Gossypium herbaceum*, T3190 *Helminthostachys zeylanica*, T3234 *Heteropogon contortus*, T3289 *Humulus lupulus*, T3332 *Hypecoum erectum*, T3628 *Kerria japonica*, T3701 *Lasiosphaera fenzlii*, T3758 *Lepidium sativum*, T3802 *Ligularia dentata*, T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*], T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T3819 *Ligusticum brachylobum*, T3953 *Lycianthes biflora*, T3961 *Lycoperdon pyriforme*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4003 *Lysimachia microcarpa*, T4004 *Lysimachia paridiformis*, T4099 *Mangifera indica*, T4100 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4190 *Mentha spicata*, T4195 *Menyanthes trifoliata*, T4209 *Michelia alba*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4335 *Mussaenda pubescens*, T4350 *Myriopterion extensum*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4514 *Ophiorrhiza pumila*, T4527 *Orixa japonica*, T4549 *Osbeckia chinensis*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4618 *Panicum miliaceum*, T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4665 *Passiflora edulis*, T4761 *Peucedanum longshengens*, T4763 *Peucedanum morisonii*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T4773 *Peucedanum terebinthaceum*, T4798 *Philonotis fontana*, T4834 *Phyllanthus emblica*, T4843 *Phyllanthus urinaria*, T4852 *Physalis peruviana*, T4902 *Pimpinella thelungiana*, T5000 *Plagiogyria stenoptera*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*], T5087 *Polygala telephioides*, T5119 *Polygonum thunbergii*, T5171 *Porphyra tenera*, T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*, T5361 *Pyrus betulaeifolia*, T5374 *Quercus infectoria*, T5502 *Rhododendron anthopogonoides*, T5518 *Rhododendron mucronatum*, T5523 *Rhododendron simsii*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5640 *Sabina vulgaris*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*], T5726 *Saponaria officinalis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5963 *Sinodielsia yunnanensis*, T6046 *Sophora viciifolia*, T6075 *Spilanthes acmella*, T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*, T6105 *Stellera chamaejasme*, T6106 *Stelmatocrypton khasianum*, T6116 *Stenoloma chusanum*, T6282 *Tagetes patula*, T6574 *Tussilago farfara*, T6766 *Viola tricolor*, T6772 *Viscum angulatum*, T6789 *Vitex negundo*, T6888 *Zanthoxylum planispinum*.
- cough and abundant phlegm** T0776 *Asplenium prolongatum*, T1343 *Chaenomeles sinensis*, T2426 *Erigeron sumatrensis*, T3520 *Isodon rosthornii*, T4274 *Monostroma nitidum*, T4814 *Phlomis umbrosa*, T5594 *Rubus parkeri*, T5939 *Shiraia bambusicola*.
- cough and asthma** T0462 *Anemarrhena asphodeloides*, T0676 *Artemisia dracunculus*, T0729 *Asarum maximum*, T0892 *Belamcanda chinensis*, T1241 *Cassia occidentalis*, T1493 *Citrus limon*, T1497 *Citrus limonia*, T1538 *Clausena lansium*, T1831 *Crotalaria sessiliflora*, T1941 *Cymbopogon distans*, T2036 *Datura innoxia*, T2038 *Datura innoxia*,

- T2039 *Datura innoxia*, T2041 *Datura metel*, T2042 *Datura metel*, T2043 *Datura metel*, T2046 *Datura stramonium*, T2047 *Datura stramonium*, T2220 *Diospyros kaki*, T2257 *Dracocephalum moldavicum*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2596 *Euphorbia kansui*, T3222 *Heracleum scabridum*, T3279 *Homo sapiens*, T3328 *Hyoscyamus niger*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3434 *Inula linariaefolia*, T3770 *Lespedeza cuneata*, T3840 *Limnophila rugosa*, T3990 *Lygodium japonicum*, T4369 *Nandina domestica*, T4418 *Nerium indicum*, T4432 *Nigella glandulifera*, T4688 *Peganum harmala*, T4714 *Perilla frutescens*, T4715 *Perilla frutescens*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T4800 *Phlegmarius fordii*, T4956 *Piper mullesua*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5145 *Populus alba*, T5308 *Pterocarya stenoptera*, T5519 *Rhododendron mucronulatum*, T5521 *Rhododendron przewalskii*, T5609 *Rumex hastatus*, T5981 *Smilax riparia*, T6055 *Sorbus tianschanica*, T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*, T6521 *Trifolium pratense*, T6825 *Winchia calophylla*.
- cough and asthma due to lung heat** T2927 *Gentiana rhodantha*, T5182 *Potentilla discolor*.
- cough and asthma due to lung vacuity** T0529 *Anthriscus sylvestris*, T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T3077 *Gymnadenia conopsea*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*.
- cough and asthma with abundant phlegm** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T0781 *Aster tataricus*, T1813 *Crotalaria albida*, T2125 *Descurainia sophia*, T2439 *Eruca sativa*, T2565 *Eupatorium lindleyanum*, T3426 *Inula britannica*, T3433 *Inula japonica*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*, T3819 *Ligusticum brachylobum*, T4005 *Lysionotus pauciflorus*, T4231 *Millingtonia hortensis*, T4761 *Peucedanum longshengensis*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T4858 *Physochlaina infundibularis*, T4904 *Pinellia ternata*, T5504 *Rhododendron capitatum*, T5515 *Rhododendron micranthum*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*], T5961 *Sinocalamus oldhami*, T6574 *Tussilago farfara*, T6580 *Tylophora floribunda*.
- cough and asthma with phlegm-blood** T4610 *Panax quinquefolium*.
- cough and asthma without phlegm** T2037 *Datura innoxia*, T2044 *Datura metel*.
- cough and counterflow** T0438 *Anacardium occidentale*, T0985 *Bos taurus domesticus*; *Bubalus bubalis*, T2839 *Gallus gallus domesticus*, T6497 *Tribulus terrestris*.
- cough and counterflow with asthma and fullness** T6819 *Wikstroemia chamaedaphne*.
- cough and heavy head (flower)** T0240 *Aglaia odorata*.
- cough and hemoptysis** T0881 *Bauhinia variegata*, T0922 *Berchemia polyphylla* var. *leioclada*, T0982 *Bos taurus domesticus*, T2691 *Farfugium japonicum*, T3390 *Ilex cornuta*, T3764 *Lepisorus thunbergianus*.
- cough and hemoptysis or dyspnea** T3954 *Lycium barbarum*, T3956 *Lycium chinense*.
- cough and qi counterflow** T1980 *Cyprinus carpio*.
- cough and shortness of breath** T4687 *Peganum harmala*, T4908 *Pinus bungeana*.
- cough and sore pharynx** T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T6567 *Tupistra wattii* [Syn. *Campylandra wattii*].
- cough asthma with phlegm-drool and atrophicexuberant** T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*.
- cough harmful to lung** T1674 *Corchorus capsularis*.
- cough of phlegm asthma** T1786 *Cremanthodium ellisii*, T2262 *Dregea sinensis*, T2964 *Ginkgo biloba*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3246 *Hibiscus syriacus*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T3988 *Lycoris squamigera*, T4247 *Millingtonia hortensis*, T4859 *Physochlaina physaloides*, T5161 *Populus tomentosa*, T5457 *Rhamnus davurica*, T5548 *Ricinus communis*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T6428 *Thermopsis lanceolata*.
- cough of phlegm-rheum** T2020 *Damnacanthus indicus*, T3893 *Litsea pungens*.
- cough of profuse phlegm** T3873 *Liriope platyphylla*, T3874 *Liriope spicata*, T5513 *Rhododendron mariae*.
- cough with blood ejection** T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T1034 *Broussonetia papyrifera*, T1684 *Cordylone stricta*, T2955 *Geum japonicum*, T5773 *Saxifraga stolonifera*, T6087 *Spiranthes sinensis*.
- cough with inhibited phlegm** T0595 *Ardisia crispa*, T0749 *Asparagus filicinus*, T5087 *Polygala telephioidea*.
- cough with phlegm** T1660 *Coprinus atramentarius*, T4820 *Phoenix dactylifera*.
- cough with phlegm and blood** T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2797 *Fritillaria ussuriensis*, T5595 *Rubus parviflorus*, T5647 *Sagittaria sagittifolia*.
- cough with profuse phlegm** T0586 *Arctium lappa*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1312 *Centipeda minima*, T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T1488 *Citrus junos*, T1498 *Citrus medica*, T1506 *Citrus reticulata*, T1520 *Citrus wilsonii*, T1927 *Cycas revoluta*, T1960 *Cynanchum stauntonii*, T2023 *Daphne genkwa*, T2432 *Eriobotrya japonica*, T2787 *Fritillaria hupehensis*, T2895 *Gaultheria yunnanensis*, T2961 *Ginkgo biloba*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3026 *Gnaphalium affine*

- [Syn. *Gnaphalium multiceps*], T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3323 *Hymenodictyon excelsum*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T4000 *Lysimachia congestiflora*, T4048 *Magnolia rostrata*, T4203 *Mesua ferrea*, T4438 *Nostoc flagelliforme*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*, T4903 *Pinellia pedatisecta*, T5011 *Platycodon grandiflorum*, T5071 *Polygala arillata*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5101 *Polygonum cuspidatum*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6653 *Usnea diffracta*, T6654 *Usnea longissima*.
- coughing of blood** T1044 *Bryum argenteum*, T1087 *Buxus bodinieri*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3645 *Kummerowia striata*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5870 *Selaginella uncinata*, T6830 *Woodfordia fruticosa*.
- courbature** T6731 *Veronicastrum sibiricum*.
- cracked nipple** T0875 *Basella rubra*.
- cracking** T0516 *Anser cygnoides domestica*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T4188 *Mentha rotundifolia*, T4190 *Mentha spicata*.
- cracking from frostbite** T0299 *Aleurites cordata* [Syn. *Aleurites fordii*].
- cracking of hands and feet** T0540 *Apis cerana*, T0955 *Bletilla striata*, T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*].
- cracking of skin** T3395 *Ilex pedunculosa*.
- cramp and swelling of feet** T4018 *Machilus thunbergii*.
- crane's knee wind** T0440 *Anagallis arvensis*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*, T5414 *Ranunculus japonicus*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*].
- crimson tongue** T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- crippling wilt** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*.
- cystitis** T1553 *Clerodendranthus spicatus*, T1557 *Clerodendron indicum*, T2056 *Debregeasia longifolia*, T2119 *Derris eriocarpa*, T3187 *Helleborus thibetanus*, T3233 *Heteropappus altaicus*, T3284 *Houttuynia cordata*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3289 *Humulus lupulus*, T3471 *Iris tectorum*, T6023 *Solidago virgaurea*, T6731 *Veronicastrum sibiricum*.
- damp beriberi** T0383 *Alyxia sinensis*.
- damp edema** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*.
- damp evil brew** T2554 *Eupatorium cannabinum*.
- damp impediment** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T4505 *Ophiocephalus argus*, T6860 *Zanthoxylum ailanthoides*.
- damp impediment and hypertonicity** T1614 *Coix lacryma-jobi* var. *ma-yuen*, T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T5466 *Rhaponticum uniflorum*.
- damp impediment pain** T0990 *Bos taurus domesticus*; *Bubalus bubalis*.
- damp itchy in genitals** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T4042 *Magnolia liliflora*, T5924 *Sesamum indicum*.
- damp itchy in sore and papules** T2048 *Daucus carota*.
- damp itchy skin** T0088 *Aconitum coreanum*, T3736 *Lemmaphyllum Microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*].
- damp lichen** T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- damp phlegm streaming sore** T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*].
- damp sore** T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T1546 *Clematis tangutica*, T1582 *Cnidium monnieri*, T2197 *Dioscorea futschauensis*, T2210 *Dioscorea spongiosa*, T2325 *Eichhornia crassipes*, T2857 *Garcinia hanburyi*, T4172 *Melilotus suaveolens*, T4851 *Physalis minima*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5220 *Prunus davidiana*, T5232 *Prunus persica*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T6864 *Zanthoxylum armatum*, T6870 *Zanthoxylum bungeanum*, T6887 *Zanthoxylum planispinum*.
- damp sore with swelling toxin** T2194 *Dioscorea colletii*.
- damp toxin** T3001 *Glycine max*, T3687 *Lantana camara*.
- damp toxin of scab sore** T5266 *Psidium guajava*.
- damp toxin sore** T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*].
- damp toxin with pruritus** T3674 *Laggera alata*.
- damp ulceration on skin** T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*.
- damp warmth** T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*].
- damp-erosion of sores** T6268 *Syzygium samarangense*.
- damp-heat diarrhea** T0171 *Adiantum capillus-veneris*, T0573 *Aralia elata*, T1705 *Corydalis adunca*, T1733 *Corydalis racemosa*, T1826 *Crotalaria mucronata*, T2718 *Ficus carica*, T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T4057 *Mahonia bealei*, T4068 *Mahonia japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T5767 *Saussurea pulchella*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6060 *Souliea vaginata*.
- damp-heat diarrhea dysentery** T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0906 *Berberis julianae*, T0916 *Berberis thunbergii*, T0920 *Berberis wilsonae*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *breviseipala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1813 *Crotalaria albida*, T1933 *Cyclea sutchuenensis*, T1966 *Cynara scolymus*, T2772 *Fraxinus mandshurica*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T3245 *Hibiscus syriacus*, T3288 *Humulus*

japonicus [Syn. *Humulus scandens*], T3878 *Lithocarpus polystachyus*, T3932 *Ludwigia octovalvis*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5942 *Sida acuta*, T6226 *Swertia mileensis*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6378 *Thalictrum delavayi*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*, T6403 *Thalictrum petaloideum*, T6767 *Viola yedoensis*.

damp-heat diarrhea, T0907 *Berberis kawakamii*.

damp-heat disease T6357 *Tetrapanax papyriferus*.

damp-heat dysentery T0161 *Actinidia eriantha*, T0446 *Anaphalis margaritacea*, T0641 *Aristolochia tuberosa*, T0902 *Berberis diaphana*, T0912 *Berberis poiretii*, T1004 *Brasenia schreberi*, T1561 *Clerodendron serratum*, T1569 *Clerodendron serratum* var. *amplexifolium*, T1931 *Cyclea barbata*, T2079 *Delphinium kamaonense* var. *glabrescens*, T2387 *Epilobium hirsutum*, T3564 *Juglans mandshurica*, T3765 *Lepisorus ussuriensis*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T4072 *Mahonia shenii*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T5118 *Polygonum suffultum*, T5174 *Portulaca pilosa*, T5554 *Rodgersia aesculifolia*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5866 *Selaginella sanguinolenta*, T6028 *Sophora alopecuroides*, T6386 *Thalictrum foetidum*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6912 *Zinnia elegans*.

damp-heat edema T0157 *Actinidia callosa* var. *henryi*, T0635 *Aristolochia moupinensis*, T2730 *Fimbristylis dichotoma*, T4144 *Meconopsis nepaulensis*, T4145 *Meconopsis punicea*.

damp-heat generalized pain T0628 *Aristolochia fangchi*.

damp-heat glomus in chest T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevise-pala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].

damp-heat impediment T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*.

damp-heat impediment pain T0632 *Aristolochia manshuriensis*, T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*].

damp-heat inhibited urination T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*].

damp-heat itchy sore T5993 *Solanum capsicastrum*.

damp-heat jaundice T0158 *Actinidia chinensis*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0471 *Anemone rivularis*, T0567 *Aralia armata*, T0571 *Aralia decaisneae*, T0595 *Ardisia crispa*, T1017 *Brassica oleracea* var. *capitata*, T1251 *Cassytha filiformis*, T1261 *Catalpa ovata*, T1311 *Centella asiatica*, T1415 *Cichorium intybus*, T1876 *Cucumis melo*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2194 *Dioscorea colletii*, T2826 *Galeola faberi*, T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3356 *Hypericum japonicum*, T3479 *Isodon amethystoides*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia*

lophanthoides; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3578 *Juncus effusus*, T3830 *Ligustrum sinense*, T3998 *Lysimachia christinae*, T4056 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4109 *Marchantia polymorpha*, T4120 *Marsdenia tenacissima*, T4144 *Meconopsis nepaulensis*, T4194 *Menyanthes trifoliata*, T4368 *Nandina domestica*, T4369 *Nandina domestica*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T5072 *Polygala caudata*, T5101 *Polygonum cuspidatum*, T5397 *Rabdosia serra*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5754 *Saussurea graminea*, T5775 *Scabiosa comosa*, T5861 *Selaginella doederleinii*, T5862 *Selaginella involvens*, T5863 *Selaginella moellendorffii*, T5943 *Sida cordifolia*, T6039 *Sophora moorcroftiana*, T6217 *Swertia davidii*, T6224 *Swertia kouitchensis*, T6226 *Swertia mileensis*, T6231 *Swertia pseudochinensis*, T6301 *Taraxacum mongolicum*, T6372 *Thalictrum acutifolium*, T6374 *Thalictrum atriplex*, T6381 *Thalictrum faberi*, T6388 *Thalictrum fortunei*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6402 *Thalictrum omeiense*.

damp-heat pain in limbs T0629 *Aristolochia heterophylla*.

damp-heat sore and papules T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*.

damp-heat sore toxin T2208 *Dioscorea septemloba*, T4127 *Matteuccia struthiopteris*.

damp-heat strangury T3360 *Hypericum patulum*.

damp-heat strangury pain T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2213 *Dioscorea zingiberensis*, T4760 *Peucedanum japonicum*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*.

damp-heat vaginal discharge T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*], T6116 *Stenoloma chusanum*.

damp-heat vomiting diarrhea T5604 *Rudbeckia laciniata*.

damp-heat with strangury turbidity T5977 *Smilax glabra*, T5980 *Smilax menispermoidea*.

damp-sore of skin T4470 *Ocimum basilicum*.

damp-sore with flowing water T6615 *Uncaria gambir*.

damp-stagnation obstructing internally T5104 *Polygonum hydropiper*.

damp-swelling in scrotum T3413 *Impatiens nolitangere*.

deadlimb T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T3971 *Lycopodium complanatum*, T4903 *Pinellia pedatisecta*, T5279 *Psychotria serpens*, T6166 *Strychnos angustiflora*.

deafness T0015 *Abutilon indicum*, T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0516 *Anser cygnoides domestica*, T0517 *Anser cygnoides domestica*, T1084 *Buthus martensi*, T2275 *Dryobalanops aromatica*, T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*.

deafness in early stage T5312 *Pueraria edulis*, T5313 *Pueraria lobata*

- [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- decayed teeth** T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T5646 *Sagina japonica* [Syn. *Spergula japonica*].
- decayed toothache** T0297 *Alchornea trewioides*, T1359 *Chenopodium album*, T4020 *Macleaya cordata*, T5144 *Populus adenopoda*, T5457 *Rhamnus davurica*.
- decayed toothache due to wind** T3329 *Hyoscyamus niger*.
- deep pus ulcer** T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*.
- deep-lying heat sore pharynx** T2839 *Gallus gallus domesticus*.
- deep-source nasal congestion** T0212 *Agastache rugosus*, T0476 *Angelica anomala*, T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T2434 *Eriocaulon buergerianum*, T3222 *Heracleum scabridum*, T3680 *Lamium amplexicaule*, T4953 *Piper longum*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T6000 *Solanum indicum*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- deep-source nasal congestion and headache** T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].
- deep-source nasal congestion and runny nose** T1312 *Centipeda minima*.
- delacrimation** T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- delacrimation and photophobia** T1048 *Buddleja officinalis*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T2434 *Eriocaulon buergerianum*.
- depressed liver-gallbladder heat** T4479 *Odontites serotina*.
- depression** T0292 *Albizia julibrissin*, T5848 *Securinega suffruticosa*.
- depression in heart-chest** T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*].
- depression of qi and blood** T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*].
- dermatitis** T0495 *Angelica sinensis*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T3381 *Hyptis suaveolens*, T3830 *Ligustrum sinense*, T4391 *Nauclea officinalis*, T4804 *Phlojodicarpus sibiricus*, T4837 *Phyllanthus emblica*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T6018 *Solanum verbascifolium*, T6338 *Tephrosia purpurea*, T6339 *Tephrosia purpurea*.
- dermatitis**^[5509] T6690 *Vepris louisii*.
- dermatomyositis** T2753 *Formica fusca*.
- desiccation of liquid and intestine dryness** T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*.
- desire to sleep** T1152 *Camellia sinensis* [Syn. *Thea sinensis*].
- deviated eyes and mouth** T0088 *Aconitum coreanum*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4903 *Pinellia pedatisecta*, T6588 *Typhonium giganteum*.
- diabetes mellitus** T0158 *Actinidia chinensis*, T0462 *Anemarrhena asphodeloides*, T0541 *Apis cerana*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0572 *Aralia elata*, T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T0975 *Bombyx mori*, T0976 *Bombyx mori*, T0988 *Bos taurus domesticus*; *Bubalus bubalis*, T0989 *Bos taurus domesticus*; *Bubalus bubalis*, T1182 *Capra hircus*; *Ovis aries*, T1412 *Cicer arietinum*, T1476 *Citrus erythrosa*, T1515 *Citrus tangemna*, T2188 *Dioscorea alata*, T2195 *Dioscorea deltoidea*, T2222 *Diospyros lotus*, T2569 *Eupatorium rebaudianum*, T2837 *Gallus gallus domesticus*, T3668 *Lagenaria siceraria* var. *depressa*, T3954 *Lycium barbarum*, T3955 *Lycium barbarum*, T3956 *Lycium chinense*, T3958 *Lycium chinense*, T4086 *Malus asiatica*, T4102 *Mangifera indica*, T4121 *Marsilea quadrifolia*, T4263 *Momordica charantia*, T4288 *Morus alba*, T4516 *Oplopanax elatus*, T4544 *Oryza sativa*, T4573 *Pachyrrhizus erosus*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4602 *Panax ginseng* [Syn. *Panax schinseng*], T4731 *Persea americana* [Syn. *Persea gratissima*], T4786 *Phasianus colchicus*, T4983 *Pisum sativum*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*, T5239 *Prunus salicina*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5419 *Raphanus sativus*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5642 *Saccharum sinensis*, T5938 *Setaria italica*, T6076 *Spinacia oleracea*, T6087 *Spiranthes sinensis*, T6147 *Stizolobium capitatum*, T6311 *Taxus cuspidata*, T6492 *Trapa bispinosa*, T6507 *Trichosanthes cucumeroides*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6754 *Vigna unguiculata*, T6901 *Zea mays*.
- diabetes mellitus due to internal heat** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T3234 *Heteropogon contortus*, T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4610 *Panax quinquefolium*, T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*, T6512 *Trichosanthes kirilowii*.
- diabetes mellitus with profuse urination** T4548 *Oryza sativa* var. *glutinosa*.
- diabetes**^[5509] T3394 *Ilex paraguariensis*.
- diaphragm food** T6744 *Vicia faba*.
- diarrhea** T0015 *Abutilon indicum*, T0293 *Albizia lebbekii*, T0302 *Alhagi pseudalhagi*, T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0318 *Allium sativum*, T0357 *Alpinia japonica*, T0358 *Alpinia katsumadai*, T0359 *Alpinia officinarum*, T0383 *Alyxia sinensis*, T0388 *Amaranthus lividus*, T0418 *Amomum muricarpum*, T0428 *Ampelopsis megalophylla*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0468 *Anemone hupehensis*, T0641 *Aristolochia*

tuberosa, T0642 *Aristolochia tubiflora*, T0894 *Benincasa hispida*, T0912 *Berberis poiretii*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0938 *Bidens bipinnata*, T0963 *Boehmeria siamensis*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1003 *Brandisia hancei*, T1031 *Broussonetia kazinoki*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1172 *Canna edulis*, T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*, T1251 *Cassytha filiformis*, T1258 *Casuarina equisetifolia*, T1278 *Cedrela sinensis*, T1299 *Celosia cristata*, T1343 *Chaenomeles sinensis*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T1359 *Chenopodium album*, T1381 *Choerospondias axillaris*, T1423 *Cimicifuga nanchuanensis*, T1440 *Cinnamomum glanduliferum*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1493 *Citrus limon*, T1497 *Citrus limonia*, T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*], T1641 *Conioselinum vaginatum*, T1784 *Cratoxylum cochinchinense*, T1928 *Cycas revoluta*, T1939 *Cymbopogon citratus*, T1943 *Cymbopogon goeringii*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T1980 *Cyprinus carpio*, T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2181 *Dillenia indica*, T2341 *Elsholtzia ciliata*, T2346 *Embelia oblongifolia*, T2348 *Embelia ribes*, T2510 *Eucalyptus globulus*, T2580 *Euphorbia antiquorum*, T2636 *Euscaphis japonica*, T2658 *Fagopyrum esculentum*, T2717 *Ficus carica*, T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*], T2723 *Ficus pumila*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2994 *Gloiopeltis furcata*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3241 *Hibiscus mutabilis*, T3340 *Hypericum ascyron*, T3348 *Hypericum elodeoides*, T3356 *Hypericum japonicum*, T3368 *Hypericum wightianum*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3381 *Hyptis suaveolens*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3418 *Incarvillea arguta*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3569 *Juglans regia*, T3674 *Laggera alata*, T3758 *Lepidium sativum*, T3770 *Lespedeza cuneata*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3885 *Litsea cubeba*, T3926 *Loropetalum chinense*, T3990 *Lygodium japonicum*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4028 *Maesa indica*, T4048 *Magnolia rostrata*, T4055 *Mahonia bealei*, T4060 *Mahonia confusa*, T4062 *Mahonia fortunei*, T4064 *Mahonia gracilipes*, T4066 *Mahonia japonica*, T4072 *Mahonia shenii*, T4183 *Menispermum dauricum*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4343 *Myrica esculent*, T4361 *Myrsine africana*, T4368 *Nandina domestica*, T4369 *Nandina domestica*, T4397 *Nelumbo nucifera*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4544 *Oryza sativa*, T4545 *Oryza sativa*, T4577 *Paederia scandens*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4636 *Papaver somniferum*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*,

T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4802 *Phleum pratense*, T4834 *Phyllanthus emblica*, T4835 *Phyllanthus emblica*, T4840 *Phyllanthus niruri*, T4953 *Piper longum*, T5100 *Polygonum chinense*, T5104 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5112 *Polygonum periginatoris*, T5114 *Polygonum polystachyum*, T5124 *Polypodium niponicum*, T5129 *Polyporus umbellatus*, T5171 *Porphyra tenera*, T5194 *Premna microphylla*, T5268 *Psidium guajava*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5289 *Pteris dactylina*, T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5295 *Pteris multifida*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5330 *Punica granatum*, T5332 *Punica granatum*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5361 *Pyrus betulaeifolia*, T5365 *Pyrus pashia*, T5374 *Quercus infectoria*, T5388 *Rabdosia adenantha*, T5389 *Rabdosia coetsa*, T5397 *Rabdosia serra*, T5419 *Raphanus sativus*, T5497 *Rhodiola kirilowii*, T5499 *Rhodiola sacra*, T5528 *Rhodomyrtus tomentosa*, T5563 *Rosa cymosa*, T5573 *Rosa sericea*, T5626 *Ruta graveolens*, T5687 *Salvia prionitis*, T5754 *Saussurea graminea*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5860 *Selaginella davidii*, T5870 *Selaginella uncinata*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5938 *Setaria italica*, T5943 *Sida cordifolia*, T5976 *Smilax china* [Syn. *Smilax japonica*], T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6075 *Spilanthes acmella*, T6133 *Stephania sinica*, T6177 *Strychnos ignatii*, T6206 *Sus scrofa domestica*, T6250 *Symplocos caudata*, T6372 *Thalictrum acutifolium*, T6373 *Thalictrum alpinum*, T6381 *Thalictrum faberi*, T6388 *Thalictrum fortunei*, T6436 *Thlaspi arvense*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6488 *Trachyspermum ammi*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6645 *Urena lobata*, T6801 *Vladimiria denticulata*, T6860 *Zanthoxylum ailanthoides*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*, T6909 *Zingiber officinale*, T6910 *Zingiber officinale*, T6920 *Ziziphus mauritiana*.

diarrhea and abdomen pain T5391 *Rabdosia eriocalyx*.

diarrhea and dysentery T0045 *Acanthopanax trifoliatum*, T0142 *Acorus calamus*, T0661 *Artemisia anomala*, T1858 *Croton tiglium*, T2438 *Erodium stephanianum*, T2521 *Eucalyptus tereticornis*, T2837 *Gallus gallus domesticus*, T2838 *Gallus gallus domesticus*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T2956 *Geum japonicum*, T2964 *Ginkgo biloba*, T4182 *Menispermum dauricum*, T4549 *Osbeckia chinensis*, T4618 *Panicum miliaceum*, T4884 *Picria felterrae*, T4965 *Piper sarmentosum*, T5517 *Rhododendron molle*, T6131 *Stephania longa*, T6252 *Symplocos chinensis*, T6476 *Torilis japonica*, T6754 *Vigna unguiculata*.

diarrhea and dysentery due to cold qi T4306 *Mosla grosseserrata*.

diarrhea and tenesmus T0313 *Allium chinense*, T0316 *Allium macrostemon*, T0606 *Areca catechu*, T5758 *Saussurea lappa* [Syn.

- Aucklandia lappa*].
- diarrhea due to spleen-kidney vacuity** T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*.
- diarrhea due to spleen-stomach vacuity cold** T4548 *Oryza sativa* var. *glutinosa*.
- diarrhea dysentery** T5182 *Potentilla discolor*.
- diarrhea in pregnancy** T0212 *Agastache rugosus*.
- diarrhea with hematochezia** T0982 *Bos taurus domesticus*.
- diarrhea with pus blood** T2337 *Elephas maximus*.
- diarrhea,** T4663 *Passiflora caerulea*.
- dietary imbalance after illness** T1472 *Citrus chachiensis*, T1517 *Citrus tankan*.
- difficult delivery** T0979 *Bombyx mori*, T1174 *Cannabis sativa*, T2836 *Gallus gallus domesticus*.
- difficult lactation** T6497 *Tribulus terrestris*.
- diffusive intravascular clotting** T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- dim vision** T1035 *Broussonetia papyrifera*, T1048 *Buddleja officinalis*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*, T3828 *Ligustrum lucidum*, T4658 *Parmelia tinctorum*, T6150 *Streptopelia orientalis*.
- dim vision and eye screen** T1526 *Cladonia rangiferina*.
- diphtheria** T1001 *Brachystemma calycinum*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*, T4834 *Phyllanthus emblica*, T5100 *Polygonum chinense*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T6039 *Sophora moorcroftiana*, T6566 *Tupistra chinensis*, T6580 *Tylophora floribunda*, T6709 *Verbena officinalis*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- dislocation** T1533 *Clausena dentata*, T1534 *Clausena dunniana*.
- disquieted heart spirit** T0292 *Albizia julibrissin*, T4555 *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5169 *Poria cocos*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*.
- disquieted heart spirit (root)** T4859 *Physochlaina physaloides*.
- disquieted spirit-mind** T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*].
- disseminated swelling of welling abscess and sores** T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*.
- distended head and headache** T4172 *Melilotus suaveolens*.
- distended head and headache due to liver-gallbladder repletion fire** T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*.
- distended head and oppression in chest** T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*.
- distended red eyes and screen** T2434 *Eriocaulon buergerianum*.
- distending pain in breast** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T3282 *Hordeum vulgare*.
- distending pain in chest and abdomen** T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*].
- distending pain in chest and rib-side** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T1966 *Cynara scolymus*, T1978 *Cyperus rotundus*, T3431 *Inula helenium*, T3437 *Inula racemosa*.
- distending pain in chest and stomach duct** T1932 *Cyclea racemosa*, T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*].
- distending pain in rib-side** T0275 *Akebia quinata*, T6062 *Sparganium stoloniferum*.
- distending pain in stomach duct** T0275 *Akebia quinata*, T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*, T1415 *Cichorium intybus*, T1440 *Cinnamomum glanduliferum*, T1498 *Citrus medica*, T1520 *Citrus wilsonii*, T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T1876 *Cucumis melo*, T1978 *Cyperus rotundus*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2387 *Epilobium hirsutum*, T3431 *Inula helenium*, T3437 *Inula racemosa*, T4039 *Magnolia grandiflora*, T4163 *Melia toosendan*, T4351 *Myristica fragrans*, T4937 *Piper betle*, T4966 *Piper sarmentosum*, T5420 *Raphanus sativus*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T6106 *Stelmatocrypton khasianum*, T6602 *Umbilicaria hypococcinea*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*].
- distending pain in stomach duct and abdomen** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0606 *Areca catechu*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T1469 *Citrus aurantium* var. *amara*, T1483 *Citrus grandis* var. *tomentosa*, T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T1958 *Cynanchum otophyllum*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3725 *Laurus nobilis*, T3849 *Lindera chunii*, T3997 *Lysimachia capillipes*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*].
- distention and oppression in stomach duct and abdomen** T2365 *Enteromorpha clathrata*, T4714 *Perilla frutescens*.
- distention fullness** T4944 *Piper cubeba*, T6910 *Zingiber officinale*.
- distention fullness and pain in stomach duct and abdomen** T0358 *Alpinia katsumadai*, T4470 *Ocimum basilicum*.
- distention fullness and rapid asthma** T4287 *Morus alba*.
- distention fullness and sudden pain in chest and abdomen** T1858 *Croton tiglium*, T4048 *Magnolia rostrata*.
- distention fullness in chest and abdomen** T0130 *Aconitum sinomontanum*, T0363 *Alpinia speciosa*, T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T3840 *Limnophila rugosa*, T4002 *Lysimachia*

- foenum-graecum*, T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*, T4786 *Phasianus colchicus*, T5141 *Poncirus trifoliata*.
- distention fullness in chest and diaphragm** T0240 *Aglaiia odorata*, T3620 *Kaempferia galanga*, T4526 *Origanum vulgare*.
- distention fullness in chest and rib-side** T2125 *Descurainia sophia*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*.
- distention fullness in chest and stomach duct** T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- distention fullness in heart and abdomen** T4954 *Piper longum*.
- distention fullness in stomach duct** T0353 *Alpinia blepharocalyx*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T4505 *Ophiocephalus argus*, T4964 *Piper retrofractum*, T4965 *Piper sarmentosum*, T6819 *Wikstroemia chamaedaphne*.
- distention fullness in stomach duct and abdomen** T1170 *Canis familiaris*, T1623 *Collybia albuminosa*, T2048 *Daucus carota*, T5137 *Poncirus trifoliata*, T5385 *Quisqualis indica*, T5469 *Rheum hotaense*.
- distention in rib-side** T1467 *Citrus aurantium*, T1501 *Citrus medica* var. *sarcodactylis*, T5140 *Poncirus trifoliata*.
- distention oppression in stomach duct** T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*.
- dizziness** T0334 *Aloe arborescens* var. *natalensis*, T0553 *Apocynum venetum*, T0645 *Armillariella mellea*, T0859 *Balanophora involucreta*, T0923 *Bergenia crassifolia*, T1337 *Cervus nippon*; *Cervus elaphus*, T1353 *Changium smyrnioides*, T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T2060 *Delonix regia*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2805 *Fugu ocellatus*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2890 *Gastrodia elata*, T3001 *Glycine max*, T3142 *Helianthus annuus*, T3372 *Hypodematium sinense*, T3775 *Lethariella cladonioides*, T3776 *Lethariella zahlbruckneri*, T3785 *Levisticum officinale*, T3845 *Linaria vulgaris*, T4238 *Milletia nitida*, T4279 *Morina chinensis*, T4821 *Pholidota articulata*, T4904 *Pinellia ternata*, T5226 *Prunus mume*, T5423 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5428 *Rauwolfia yunnanensis*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5497 *Rhodiola kirilowii*, T5657 *Salsola collina*, T5927 *Sesamum indicum* [Syn. *Sesamum orientale*], T6278 *Tagetes erecta*, T6410 *Thalictrum smithii*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- dizziness (for men)** T2391 *Epimedium brevicornum*.
- dizziness and dim vision** T0298 *Alectoria vivens*, T1296 *Celosia argentea*, T1525 *Cladonia fallax*, T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T1819 *Crotalaria ferruginea*, T2955 *Geum japonicum*, T3827 *Ligustrum japonicum*, T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T5593 *Rubus idaeus*, T6036 *Sophora japonica*, T6076 *Spinacia oleracea*.
- dizziness and headache** T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T3557 *Jasminum sambac*, T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T6531 *Trillium camtschaticum*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- dizziness and insomnia** T1961 *Cynanchum thesioides*.
- dizziness and palpitation** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- dizziness and tinnitus** T0793 *Astragalus complanatus*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T3828 *Ligustrum lucidum*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T4432 *Nigella glandulifera*, T5100 *Polygonum chinense*.
- dizziness due to anemia** T3774 *Lespedeza tomentosa*, T5107 *Polygonum multiflorum*.
- dizziness syndrome** T0644 *Armillaria mellea*.
- dizzy and distended head** T1242 *Cassia occidentalis*, T1247 *Cassia sophera*.
- dizzy head** T0644 *Armillaria mellea*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T6087 *Spiranthes sinensis*.
- dizzy head and distention eyes** T0428 *Ampelopsis megalophylla*.
- dizzy head and insomnia** T5586 *Rubia yunnanensis*.
- dizzy head and tinnitus** T1188 *Caragana chamlagu*.
- dizzy head and vision** T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T3390 *Ilex cornuta*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5498 *Rhodiola quadrifida*.
- dizzy head and vision due to insufficiency of liver-kidney and blood vacuity essence depletion** T4288 *Morus alba*.
- dizzy head due to blood vacuity** T3675 *Lagopsis supina*.
- dog bite** T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1932 *Cyclea racemosa*, T1958 *Cynanchum otophyllum*, T4428 *Nicotiana tabacum*.
- dormant papules with pruritus** T3738 *Lemna minor*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4470 *Ocimum basilicum*.
- double tongue** T4042 *Magnolia liliflora*, T4050 *Magnolia sieboldii*.
- dream emission** T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*, T6670 *Vaccinium bracteatum*.
- dribbling and inhibited voidings of urination** T0172 *Adiantum caudatum*, T0175 *Adiantum pedatum*, T1933 *Cyclea sutchuenensis*, T3240 *Hibiscus esculentus*, T3764 *Lepisorus thunbergianus*, T5033 *Poa sphondylodes*, T5978 *Smilax glauco-china*, T6131 *Stephania longa*.
- dribbling pain of urination** T0173 *Adiantum lunulatum*, T0428 *Ampelopsis megalophylla*, T0595 *Ardisia crispa*, T1589 *Cocculus*

- trilobus* [Syn. *Cocculus sarmentosus*], T1813 *Crotalaria albida*, T1823 *Crotalaria juncea*, T1931 *Cyclea barbata*, T1941 *Cymbopogon distans*, T2902 *Gentiana algida*, T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3303 *Hydrangea chinensis*, T3555 *Jasminum nudiflorum*, T3765 *Lepisorus ussuriensis*, T3920 *Lophatherum gracile*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4730 *Peristrophe roxburghiana*, T4802 *Phleum pratense*, T5071 *Polygala arillata*, T5301 *Pterocarpus indicus*, T5372 *Quercus dentata*, T6526 *Triglochin maritimum*.
- dribbling urinary block** T2243 *Dodonaea viscosa*, T3738 *Lemna minor*, T5011 *Platycodon grandiflorum*.
- dribbling urination** T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*], T0993 *Boschniakia rossica*, T1241 *Cassia occidentalis*, T1826 *Crotalaria mucronata*, T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T2243 *Dodonaea viscosa*, T3142 *Helianthus annuus*, T4845 *Physalis alkekengi*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T6901 *Zea mays*.
- dripping with inhibited pain** T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T5098 *Polygonum aviculare*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*.
- drooling** T0360 *Alpinia oxyphylla*, T0825 *Atropa belladonna*, T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*.
- drug poisoning** T0516 *Anser cygnoides domestica*, T3000 *Glycine max*.
- drunkenness** T1428 *Cinchona ledgeriana*, T1429 *Cinchona officinalis*, T1433 *Cinchona succirubra*, T1471 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*, T1478 *Citrus grandis*, T1486 *Citrus junos*, T1488 *Citrus junos*, T1516 *Citrus tankan*, T1518 *Citrus unshiu*, T3286 *Hovenia dulcis*, T5194 *Premna microphylla*, T6492 *Trapa bispinosa*.
- dry blood tisis (consumptive disease due to blood disorders)** T5498 *Rhodiola quadrifida*.
- dry cough** T0318 *Allium sativum*, T0462 *Anemarrhena asphodeloides*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2797 *Fritillaria ussuriensis*, T3124 *Hedyotis capitellata*, T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*, T6097 *Staphylea bumalda*.
- dry cough due to lung dryness** T0158 *Actinidia chinensis*, T2797 *Fritillaria ussuriensis*, T2983 *Glehnia littoralis*, T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*, T4602 *Panax ginseng* [Syn. *Panax schinseng*], T4912 *Pinus koraiensis*, T5260 *Pseudostellaria heterophylla*.
- dry cough lesser phlegm** T6139 *Sterculia lychnophora*.
- dry cough with hoarseness** T2717 *Ficus carica*.
- dry cough without phlegm** T4635 *Papaver somniferum*.
- dry cracked skin** T3860 *Linum usitatissimum*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*].
- dry eyes with clouded flowery vision** T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- dry lichen** T4265 *Momordica cochinchinensis*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- dry mouth and throat** T3873 *Liriope platyphylla*, T3874 *Liriope spicata*.
- dry mouth with vexation and thirst** T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*.
- dry stool** T0559 *Arachis hypogaea*, T0843 *Babylonia lutosa*, T5549 *Ricinus communis*, T5550 *Ricinus communis*, T5642 *Saccharum sinensis*, T6428 *Thermopsis lanceolata*.
- dry throat** T4665 *Passiflora edulis*, T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*.
- dry throat and phlegm node** T1526 *Cladonia rangiferina*.
- dry-itchy skin** T3878 *Lithocarpus polystachyus*.
- dryness in eyes and mouth** T6542 *Tripterygium wilfordii*.
- duodenal bleeding** T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T3926 *Loropetalum chinense*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*].
- duodenal ulcer** T0255 *Ailanthus altissima*, T0541 *Apis cerana*, T0825 *Atropa belladonna*, T1884 *Cudrania cochinchinensis*, T1954 *Cynanchum chinense*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T4082 *Mallotus japonicus*, T5183 *Potentilla griffithii* var. *velutina*, T5712 *Sanguisorba officinalis*, T6145 *Stichopus japonicus*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*].
- dysentery** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0171 *Adiantum capillus-veneris*, T0172 *Adiantum caudatum*, T0175 *Adiantum pedatum*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0190 *Adonis sutchuenensis*, T0197 *Aegle marmelos*, T0226 *Agave sisalana*, T0248 *Agrimonia pilosa*, T0263 *Ajuga decumbens*, T0264 *Ajuga forrestii*, T0275 *Akebia quinata*, T0297 *Alchornea trewioides*, T0314 *Allium fistulosum*, T0318 *Allium sativum*, T0322 *Allium tuberosum*, T0388 *Amaranthus lividus*, T0389 *Amaranthus tricolor*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0428 *Ampelopsis megalophylla*, T0444 *Ananas comosus*, T0468 *Anemone hupehensis*, T0495 *Angelica sinensis*, T0500 *Anguilla japonica*, T0563 *Arachniodes exilis*, T0567 *Aralia armata*, T0573 *Aralia elata*, T0594 *Ardisia crenata*, T0598 *Ardisia japonica*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0852 *Bacopa monniera*, T0877 *Bauhinia championii*, T0890 *Begonia limprichtii*, T0897 *Berberis amurensis*, T0907 *Berberis kawakamii*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0938 *Bidens bipinnata*, T0947 *Bixa orellana*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1031 *Broussonetia kazinoki*, T1101 *Caesalpinia decapetala*, T1106 *Caesalpinia minax*, T1153 *Camellia sinensis* var. *assamica*, T1163 *Campylotropis hirtella*, T1172 *Canna edulis*, T1205 *Carica papaya*, T1242 *Cassia occidentalis*, T1247 *Cassia sophera*, T1251 *Cassytha filiformis*, T1258 *Casuarina*

equisetifolia, T1275 *Cayratia japonica*, T1278 *Cedrela sinensis*, T1282 *Cedrus deodara*, T1286 *Celastrus flagellaris*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1299 *Celosia cristata*, T1311 *Centella asiatica*, T1315 *Cephaelis ipecacuanha*, T1316 *Cephalanthus occidentalis*, T1343 *Chaenomeles sinensis*, T1357 *Chelidonium majus*, T1359 *Chenopodium album*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*], T1552 *Cleome viscosa*, T1562 *Clerodendron trichotomum*, T1573 *Clinopodium chinense*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1673 *Corchorus capsularis*, T1675 *Corchorus olitorius*, T1684 *Cordylina stricta*, T1687 *Coriandrum sativum*, T1709 *Corydalis bungeana*, T1727 *Corydalis mucronifera*, T1728 *Corydalis ochotensis*, T1733 *Corydalis racemosa*, T1747 *Corydalis thalictrifolia*, T1826 *Crotalaria mucronata*, T1831 *Crotalaria sessiliflora*, T1927 *Cycas revoluta*, T1928 *Cycas revoluta*, T1967 *Cynoglossum amabile*, T1969 *Cynoglossum officinale*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], T2115 *Dermatocarpon minutum*, T2181 *Dillenia indica*, T2233 *Diploclicia glaucescens*, T2257 *Dracocephalum moldavicum*, T2258 *Dracocephalum rupestre*, T2268 *Drosera rotundifolia*, T2280 *Dryopteris chrysocoma*, T2290 *Duchesnea indica*, T2348 *Embelia ribes*, T2505 *Eucalyptus citriodora*, T2510 *Eucalyptus globulus*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumin*; *Myrtus cumini*], T2580 *Euphorbia antiquorum*, T2591 *Euphorbia humifusa*, T2636 *Euscaphis japonica*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T2649 *Evolvulus alsinoides*, T2658 *Fagopyrum esculentum*, T2659 *Fagopyrum esculentum*, T2695 *Ferula assafoetida*, T2715 *Fibraurea recisa*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2717 *Ficus carica*, T2720 *Ficus hispida*, T2839 *Gallus gallus domesticus*, T2840 *Gallus gallus domesticus*, T2927 *Gentiana rhodantha*, T2988 *Glochidion eriocarpum*, T2994 *Gloiopeltis furcata*, T3040 *Gomphrena globosa*, T3123 *Hedyotis auricularia*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3163 *Helicteres angustifolia*, T3242 *Hibiscus rosa-sinensis*, T3263 *Holarrhena antidysenterica*, T3284 *Houttuynia cordata*, T3311 *Hydrocotyle sibthorpioides*, T3332 *Hypocoum erectum*, T3340 *Hypericum ascyron*, T3342 *Hypericum bellum*, T3356 *Hypericum japonicum*, T3363 *Hypericum sampsonii*, T3381 *Hyptis suaveolens*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3398 *Ilex rotunda*, T3418 *Incarvillea arguta*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3547 *Ixeris chinensis*, T3557 *Jasminum sambac*, T3569 *Juglans regia*, T3645 *Kummerowia striata*, T3646 *Kyllinga brevifolia*, T3670 *Lagerstroemia indica*, T3672 *Lagerstroemia indica*,

T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3758 *Lepidium sativum*, T3770 *Lespedeza cuneata*, T3774 *Lespedeza tomentosa*, T3830 *Ligustrum sinense*, T3847 *Lindera angustifolia*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3926 *Loropetalum chinense*, T3928 *Lotus corniculatus*, T3953 *Lycianthes biflora*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T3990 *Lygodium japonicum*, T3999 *Lysimachia clethroides*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4055 *Mahonia bealei*, T4056 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4063 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4067 *Mahonia japonica*, T4086 *Malus asiatica*, T4148 *Medicago sativa*, T4170 *Melilotus albus*, T4172 *Melilotus suaveolens*, T4225 *Microsorium punctatum*, T4261 *Mollugo pentaphylla*, T4263 *Momordica charantia*, T4280 *Morinda citrifolia*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4335 *Mussaenda pubescens*, T4343 *Myrica esculent*, T4348 *Myrica rubra*, T4349 *Myrica rubra*, T4361 *Myrsine africana*, T4385 *Narcissus tazetta* var. *chinensis*, T4397 *Nelumbo nucifera*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4527 *Orixa japonica*, T4552 *Osmunda japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4577 *Paederia scandens*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4665 *Passiflora edulis*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T4802 *Phleum pratense*, T4804 *Phlojodicarpus sibiricus*, T4835 *Phyllanthus emblica*, T4840 *Phyllanthus niruri*, T4842 *Phyllanthus reticulatus*, T4843 *Phyllanthus urinaria*, T4845 *Physalis alkekengi*, T4846 *Physalis alkekengi* var. *franchetii*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4887 *Picrorhiza kurroa*, T4888 *Picrorhiza scrophulariiflora*, T5011 *Platycodon grandiflorum*, T5097 *Polygonum amphibium*, T5098 *Polygonum aviculare*, T5100 *Polygonum chinense*, T5104 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5109 *Polygonum nodosum*, T5112 *Polygonum periginatoris*, T5114 *Polygonum polystachyum*, T5119 *Polygonum thunbergii*, T5151 *Populus davidiana*, T5156 *Populus nigra* var. *thevestina*, T5158 *Populus simonii*, T5161 *Populus tomentosa*, T5183 *Potentilla griffithii* var. *velutina*, T5184 *Potentilla kleiniana*, T5188 *Potentilla viscosa*, T5194 *Premna microphylla*, T5209 *Pronephrium simplex* [Syn. *Meniscium simplex*], T5267 *Psidium guajava*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5289 *Pteris dactylina*, T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5295 *Pteris multifida*, T5297 *Pteris plumbea*, T5298 *Pteris vittata*, T5299 *Pteris wallichiana*, T5339 *Pycnoporus sanguineus*, T5361 *Pyrus betulaeifolia*, T5388 *Rabdosia adenantha*, T5397 *Rabdosia serra*, T5401 *Rabdosia yuenmanensis*, T5407 *Rana nigromaculata*; *Rana plancyi*, T5419 *Raphanus sativus*, T5497 *Rhodiola kirilowii*, T5518 *Rhododendron mucronatum*, T5529 *Rhodomyrtus tomentosa*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T5555 *Rodgersia pinnata*, T5557 *Rohdea japonica* [Syn. *Orontium*

japonicum], T5563 *Rosa cymosa*, T5567 *Rosa laevigata*, T5587 *Rubus alceaefolius*, T5595 *Rubus parviflorus*, T5607 *Rumex crispus*, T5614 *Rumex patientia*, T5685 *Salvia plebeia*, T5687 *Salvia prionitis*, T5859 *Selaginella braunii*, T5862 *Selaginella involvens*, T5867 *Selaginella sinensis*, T5870 *Selaginella uncinata*, T5892 *Senecio nemorensis*, T5943 *Sida cordifolia*, T5954 *Silene fortunei*, T5976 *Smilax china* [Syn. *Smilax japonica*], T6008 *Solanum nigrum*, T6025 *Sonchus arvensis*, T6029 *Sophora alopecuroides*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6060 *Souliea vaginata*, T6092 *Stachys palustris*, T6116 *Stenoloma chusanum*, T6121 *Stephania dicentrifera*, T6128 *Stephania hernandifolia*, T6133 *Stephania sinica*, T6137 *Stephania viridiflavens*, T6177 *Strychnos ignatii*, T6206 *Sus scrofa domestica*, T6214 *Swertia chinensis*, T6217 *Swertia davidii*, T6231 *Swertia pseudochinensis*, T6250 *Symplocos caudata*, T6264 *Syzygium buxifolium*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6282 *Tagetes patula*, T6353 *Tetracera asiatica*, T6359 *Teucrium bidentatum*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6372 *Thalictrum acutifolium*, T6373 *Thalictrum alpinum*, T6374 *Thalictrum atriplex*, T6381 *Thalictrum faberi*, T6388 *Thalictrum fortunei*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6436 *Thlaspi arvense*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6492 *Trapa bispinosa*, T6508 *Trichosanthes cucumeroides*, T6602 *Umbilicaria hypococcinea*, T6645 *Urena lobata*, T6691 *Veratrilla baillonii*, T6709 *Verbena officinalis*, T6722 *Veronica anagallis-aquatica*, T6788 *Vitex negundo*, T6801 *Vladimiria denticulata*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6830 *Woodfordia fruticosa*, T6831 *Woodwardia orientalis*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6920 *Ziziphus mauritiana*.

dysentery (seed) T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*].

dysentery abdominal pain T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*].

dysentery with ardent fever T0181 *Adina rubella*.

dysentery with hematochezia and hematuria T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*].

dysentery with pus and blood T0542 *Apis cerana*, T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T2826 *Galeola faberi*.

dysentery, T6412 *Thalictrum squarrosum*.

dysfunctional uterine bleeding T0541 *Apis cerana*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*.

dysmenorrhea T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0073 *Achyranthes bidentata*, T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T0601 *Ardisia pusilla*, T0642 *Aristolochia tubiflora*, T0661 *Artemisia anomala*, T0680 *Artemisia lactiflora*, T0994 *Boswellia carterii*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1129 *Calophyllum inophyllum*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1160 *Campsis grandiflora*, T1163 *Campylotropis hirtella*, T1215

Carthamus tinctorius, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1356 *Cheiranthus cheiri*, T1361 *Chenopodium ambrosioides*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1441 *Cinnamomum japonicum*, T1444 *Cinnamomum tamala*, T1450 *Cirsium lineare*, T1537 *Clausena lansium*, T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1735 *Corydalis repens*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T1907 *Curcuma wengujin*, T1959 *Cynanchum paniculatum*, T1976 *Cyperus iria*, T1994 *Daemonorops draco*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2253 *Dracaena cochinchinensis*, T2536 *Euonymus alatus*, T2541 *Euonymus grandiflorus*, T2542 *Euonymus japonicus*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3222 *Heracleum scabridum*, T3340 *Hypericum ascyron*, T3410 *Impatiens balsamina*, T3413 *Impatiens nolintangere*, T3567 *Juglans regia*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3746 *Leontice robustum*, T3752 *Leonurus heterophyllum* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3774 *Lespedeza tomentosa*, T3785 *Levisticum officinale*, T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*], T3897 *Litsea verticillata*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4005 *Lysionotus pauciflorus*, T4144 *Meconopsis nepaulensis*, T4145 *Meconopsis punicea*, T4190 *Mentha spicata*, T4311 *Mucuna sempervirens*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4549 *Osbeckia chinensis*, T4582 *Paeonia delavayi*, T4584 *Paeonia lactiflora* wild, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4663 *Passiflora caerulea*, T4665 *Passiflora edulis*, T4948 *Piper hancei*, T4956 *Piper mullesua*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5028 *Plumbago indica*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5104 *Polygonum hydropiper*, T5233 *Prunus persica*, T5365 *Pyrus pashia*, T5401 *Rabdosia yunnanensis*, T5515 *Rhododendron micranthum*, T5545 *Ribes fasciculatum* var. *chinense*, T5555 *Rodgersia pinnata*, T5562 *Rosa chinensis*, T5569 *Rosa multiflora*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5697 *Salvia trijuga*, T5701 *Salvia yunnanensis*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5741 *Sargentodoxa cuneata*, T5781 *Schefflera arboricola*, T6099 *Stauntonia chinensis*, T6118 *Stephania brachyandra*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6488 *Trachyspermum ammi*, T6540 *Tripterygium hypoglaucum*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*,

- T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], T6675 *Valeriana amurensis*, T6676 *Valeriana hardwickii*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6830 *Woodfordia fruticosa*.
- dysmenorrhea due to anemia** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- dysphagia-occlusion** T0240 *Aglaia odorata*, T0353 *Alpinia blepharocalyx*, T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T1501 *Citrus medica* var. *sarcodactylis*, T2659 *Fagopyrum esculentum*, T2761 *Fortunella margarita*, T3412 *Impatiens balsamina*, T3436 *Inula nervosa*, T4544 *Oryza sativa*, T4546 *Oryza sativa*, T4547 *Oryza sativa* cv, T5139 *Poncirus trifoliata*, T5284 *Pteridium aquilinum* var. *latiusculum*.
- dysphagia-occlusion and stomach reflux** T0322 *Allium tuberosum*, T0354 *Alpinia chinensis*, T0516 *Anser cygnoides domestica*, T6507 *Trichosanthes cucumeroides*.
- ear sore** T3420 *Incarvillea sinensis*.
- early stage of sores and welling abscess toxin** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*].
- early stage of toxin swelling** T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*].
- early stage of welling abscess and flat abscess** T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*].
- eczema** T0019 *Acacia catechu*, T0142 *Acorus calamus*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0181 *Adina rubella*, T0297 *Alchornea trewioides*, T0379 *Alternanthera philoxeroides*, T0421 *Amorpha fruticosa*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0495 *Angelica sinensis*, T0635 *Aristolochia moupinensis*, T0643 *Aristolochia versicolor*, T0736 *Asclepias curassavica*, T0853 *Baeckea frutescens*, T0897 *Berberis amurensis*, T0906 *Berberis julianae*, T0912 *Berberis poiratii*, T0941 *Bidens tripartita*, T0963 *Boehmeria siamensis*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1261 *Catalpa ovata*, T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1359 *Chenopodium album*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1558 *Clerodendron inerme*, T1565 *Clerodendron bungei*, T1582 *Cnidium monnieri*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1675 *Corchorus olitorius*, T1719 *Corydalis incisa*, T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T1922 *Cyanotis vaga*, T1959 *Cynanchum paniculatum*, T2194 *Dioscorea colletii*, T2267 *Drosera peltata* var. *lunata*, T2334 *Elephantopus scaber*, T2341 *Elsholtzia ciliata*, T2357 *Emilia sonchifolia*, T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2479 *Erythrina variegata* var. *orientalis*, T2505 *Eucalyptus citriodora*, T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T2590 *Euphorbia hirta*, T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*], T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2721 *Ficus microcarpa*, T2852 *Garcinia cowa*, T2897 *Gelsemium elegans*, T2988 *Glochidion eriocarpum*, T2989 *Glochidion sphaerogynum*, T3080 *Gymnema sylvestre*, T3123 *Hedyotis auricularia*, T3163 *Helicteres angustifolia*, T3246 *Hibiscus syriacus*, T3340 *Hypericum ascyron*, T3381 *Hyptis suaveolens*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3398 *Ilex rotunda*, T3420 *Incarvillea sinensis*, T3560 *Jatropha curcas*, T3588 *Juniperus formosana*, T3628 *Kerria japonica*, T3672 *Lagerstroemia indica*, T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3830 *Ligustrum sinense*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3928 *Lotus corniculatus*, T4020 *Macleaya cordata*, T4055 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4080 *Mallotus apelta*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4154 *Melaleuca leucadendra*, T4247 *Millingtonia hortensis*, T4284 *Morinda parvifolia*, T4305 *Mosla dianthera*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4391 *Nauclea officinalis*, T4500 *Onosma paniculatum*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4804 *Phlojodicarpus sibiricus*, T4834 *Phyllanthus emblica*, T4837 *Phyllanthus emblica*, T4845 *Physalis alkekengi*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4884 *Picria felterrae*, T5098 *Polygonum aviculare*, T5100 *Polygonum chinense*, T5104 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5172 *Portulaca grandiflora*, T5173 *Portulaca oleracea*, T5178 *Potamogeton perfoliatus*, T5234 *Prunus persica*, T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*], T5308 *Pterocarya stenoptera*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5395 *Rabdosia nervosa*, T5455 *Rhamnus crenata*, T5483 *Rhinacanthus nasutus*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5605 *Rumex acetosa*, T5613 *Rumex obtusifolius*, T5626 *Ruta graveolens*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5712 *Sanguisorba officinalis*, T5723 *Sapium sebiferum*, T5724 *Sapium sebiferum*, T5773 *Saxifraga stolonifera*, T5818 *Scoparia dulcis*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T6017 *Solanum tuberosum*, T6018 *Solanum verbascifolium*, T6028 *Sophora alopecuroides*, T6029 *Sophora alopecuroides*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6118 *Stephania brachyandra*, T6136 *Stephania tetrandra*, T6338 *Tephrosia purpurea*, T6339 *Tephrosia purpurea*, T6359 *Teucrium bidentatum*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6367 *Teucrium quadrifarium*, T6414 *Thalictrum thunbergii*, T6542 *Tripterygium wilfordii*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6862 *Zanthoxylum ailanthoides*.
- eczema leukoplakia** T6359 *Teucrium bidentatum*.
- eczema of lower limb** T5867 *Selaginella sinensis*.
- eczema of skin** T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T1361 *Chenopodium ambrosioides*, T2323 *Eclipta prostrata* [Syn. *Eclipta*

- alba*], T4835 *Phyllanthus emblica*, T6116 *Stenoloma chusanum*.
- eczema shank sore** T5267 *Psidium guajava*.
- eczema titillation** T0229 *Ageratum conyzoides*, T0659 *Artemisia absinthium*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*], T4102 *Mangifera indica*, T4158 *Melia azedarach*, T4937 *Piper betle*, T5389 *Rabdosia coetsa*, T5685 *Salvia plebeia*.
- eczema with pruritus** T1566 *Clerodendrum inerme*.
- edema** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0172 *Adiantum caudatum*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0264 *Ajuga forrestii*, T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0318 *Allium sativum*, T0388 *Amaranthus lividus*, T0553 *Apocynum venetum*, T0567 *Aralia armata*, T0571 *Aralia decaisneana*, T0573 *Aralia elata*, T0606 *Areca catechu*, T0610 *Argemone mexicana*, T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0629 *Aristolochia heterophylla*, T0630 *Aristolochia indica*, T0632 *Aristolochia manshuriensis*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*, T0721 *Arundina chinensis*, T0726 *Asarum forbesii*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T0894 *Benincasa hispida*, T0895 *Benincasa hispida*, T1003 *Brandisia hancei*, T1004 *Brasenia schreberi*, T1031 *Broussonetia kazinoki*, T1034 *Broussonetia papyrifera*, T1035 *Broussonetia papyrifera*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1170 *Canis familiaris*, T1238 *Cassia mimosoides*, T1263 *Catalpa ovata*, T1282 *Cedrus deodara*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T1357 *Chelidonium majus*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1556 *Clerodendron fragrans*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1595 *Codium fragile*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1633 *Commelina communis*, T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*], T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1826 *Crotalaria mucronata*, T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T1922 *Cyanotis vaga*, T2020 *Damnacanthus indicus*, T2023 *Daphne genkwa*, T2024 *Daphne genkwa*, T2048 *Daucus carota*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2282 *Dryopteris filix-mas*, T2325 *Eichhornia crassipes*, T2341 *Elsholtzia ciliata*, T2432 *Eriobotrya japonica*, T2439 *Eruca sativa*, T2452 *Erysimum cheiranthoides*, T2580 *Euphorbia antiquorum*, T2585 *Euphorbia esula*, T2596 *Euphorbia kansui*, T2597 *Euphorbia lathyris*, T2599 *Euphorbia lunulata*, T2608 *Euphorbia pekinensis*, T2612 *Euphorbia prolifera*, T2617 *Euphorbia royleana*, T2723 *Ficus pumila*, T2727 *Ficus simplicissima*, T2749 *Fomes officinalis*, T2837 *Gallus gallus domesticus*, T3066 *Gryllulus chinensis*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3199 *Hemibarbus labeo*, T3270 *Holboellia fargesii*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3289 *Humulus lupulus*, T3311 *Hydrocotyle sibthorpioides*, T3416 *Imperata cylindrica* var. *major*, T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3479 *Isodon amethystoides*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3578 *Juncus effusus*, T3594 *Juniperus rigida*, T3628 *Kerria japonica*, T3668 *Lagenaria siceraria* var. *depressa*, T3675 *Lagopsis supina*, T3738 *Lemna minor*, T3742 *Lentinus edodes*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3758 *Lepidium sativum*, T3765 *Lepisorus ussuriensis*, T3770 *Lespedeza cuneata*, T3774 *Lespedeza tomentosa*, T3785 *Levisticum officinale*, T3815 *Ligularia stenocephala*, T3840 *Limnophila rugosa*, T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T3886 *Litsea euosma*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T3932 *Ludwigia octovalvis*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T3935 *Luffa cylindrica*, T3981 *Lycopus lucidus*, T3988 *Lycoris squamigera*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T3990 *Lygodium japonicum*, T3999 *Lysimachia clethroides*, T4026 *Macrothelypteris oligophlebia*, T4029 *Maesa japonica*, T4042 *Magnolia liliflora*, T4121 *Marsilea quadrifolia*, T4147 *Medicago falcata*, T4148 *Medicago sativa*, T4194 *Menyanthes trifoliata*, T4195 *Menyanthes trifoliata*, T4248 *Mimosa pudica*, T4252 *Mirabilis jalapa*, T4274 *Monostroma nitidum*, T4287 *Morus alba*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4305 *Mosla dianthera*, T4432 *Nigella glandulifera*, T4439 *Nothapodytes pittosporoides*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4456 *Nymphoides peltatum*, T4482 *Oenanthe javanica*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4505 *Ophiocephalus argus*, T4526 *Origanum vulgare*, T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*], T4644 *Parasilurus asotus*, T4785 *Phaseolus vulgaris*, T4799 *Philydrum lanuginosum*, T4801 *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], T4818 *Phoebe nanmu*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4837 *Phyllanthus emblica*, T4840 *Phyllanthus niruri*, T4845 *Physalis alkekengi*, T4846 *Physalis alkekengi* var. *franchetii*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T4937 *Piper betle*, T4966 *Piper sarmentosum*, T5071 *Polygala arillata*, T5103 *Polygonum hydropiper*, T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*], T5129 *Polyporus umbellatus*, T5169 *Poria cocos*, T5171 *Porphyra tenera*, T5176 *Potamogeton natans*, T5179 *Potentilla anserina*, T5220 *Prunus davidiana*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5231 *Prunus persica*, T5232 *Prunus persica*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5289 *Pteris dactylina*, T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*, T5400 *Rabdosia stracheyi*, T5407 *Rana nigromaculata*; *Rana plancyi*, T5461 *Rhamnus leptophylla*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5645 *Sageretia theezans* [Syn. *Sageretia thea*], T5723 *Sapium sebiferum*, T5750 *Saururus chinensis*, T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*], T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5862 *Selaginella involvens*, T5863 *Selaginella moellendorffii*, T5870 *Selaginella uncinata*, T6005 *Solanum lyratum*, T6031 *Sophora*

- flavescens* [Syn. *Sophora angustifolia*], T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6100 *Stauntonia hexaphylla*, T6127 *Stephania glabra*, T6131 *Stephania longa*, T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*], T6227 *Swertia mussoitii*, T6264 *Syzygium buxifolium*, T6356 *Tetrapanax papyriferus*, T6357 *Tetrapanax papyriferus*, T6367 *Teucrium quadrifarium*, T6527 *Trigonella caerulea*, T6598 *Ulva conglobata*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6709 *Verbena officinalis*, T6744 *Vicia faba*, T6750 *Vicia sativa*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6798 *Vitis vinifera*, T6799 *Vitis vinifera*, T6819 *Wikstroemia chamaedaphne*, T6820 *Wikstroemia indica*, T6826 *Wisteria sinensis*, T6901 *Zea mays*, T6902 *Zea mays*, T6925 *Zostera marina*.
- edema and enlarged abdomen** T1858 *Croton tiglium*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*].
- edema and inhibited urination** T2343 *Elsholtzia splendens*.
- edema and qi fullness** T2589 *Euphorbia helioscopia*.
- edema distention fullness** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T1033 *Broussonetia papyrifera*, T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*, T3000 *Glycine max*, T3632 *Knoxia valerianoides*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*], T5457 *Rhamnus davurica*, T6105 *Stellera chamaejasme*.
- edema due to heart disease** T0184 *Adonis amurensis*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*], T2175 *Digitalis lanata*, T2177 *Digitalis purpurea*, T5813 *Scilla scilloides*, T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*].
- edema in body and face** T3980 *Lycopus lucidus*.
- edema in chest and abdomen** T2125 *Descurainia sophia*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*.
- edema in face and foot** T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*].
- edema in lower limb** T0628 *Aristolochia fangchi*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T4729 *Periploca sepium*, T5097 *Polygonum amphibium*.
- edema in pregnancy** T0553 *Apocynum venetum*, T1980 *Cyprinus carpio*, T4505 *Ophiocephalus argus*.
- effusion in thorax** T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*].
- effusion of back** T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1565 *Clerodendrum bungei*, T3479 *Isodon amethystoides*.
- effusion of back from welling abscess and flat abscess** T0542 *Apis cerana*, T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T2658 *Fagopyrum esculentum*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5466 *Rhaponticum uniflorum*.
- effusion of vaginal coat** T2744 *Foeniculum vulgare*.
- elephantiasis** T0852 *Bacopa monniera*, T3082 *Gynocardia odorata*, T3570 *Juglans regia*.
- elephantiasis of scrotum** T2744 *Foeniculum vulgare*.
- emission** T0255 *Ailanthus altissima*, T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0323 *Allium tuberosum*, T0360 *Alpinia oxyphylla*, T0542 *Apis cerana*, T0859 *Balanophora involucreta*, T0993 *Boschniakia rossica*, T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T1819 *Crotalaria ferruginea*, T1927 *Cycas revoluta*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2838 *Gallus gallus domesticus*, T2955 *Geum japonicum*, T2962 *Ginkgo biloba*, T2964 *Ginkgo biloba*, T3279 *Homo sapiens*, T3568 *Juglans regia*, T3615 *Kadsura interior*, T3770 *Lespedeza cuneata*, T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T4206 *Metaplexis japonica*, T4207 *Metaplexis japonica*, T4400 *Nelumbo nucifera*, T4470 *Ocimum basilicum*, T4536 *Orobanchae coerulea*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurensis*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4821 *Pholidota articulata*, T5107 *Polygonum multiflorum*, T5244 *Prunus tomentosa*, T5374 *Quercus infectoria*, T5529 *Rhodomyrtus tomentosa*, T5568 *Rosa laevigata*, T5593 *Rubus idaeus*, T6025 *Sonchus arvensis*, T6087 *Spiranthes sinensis*, T6257 *Syngnathus acus*, T6353 *Tetracera asiatica*, T6431 *Thesium chinense*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6750 *Vicia sativa*, T6754 *Vigna unguiculata*.
- emission and premature ejaculation** T0793 *Astragalus complanatus*, T1972 *Cynomorium songaricum*.
- encephalitis** T2756 *Forsythia suspensa*, T3476 *Isatis indigotica*.
- encephalitis b** T0379 *Alternanthera philoxeroides*, T2282 *Dryopteris filix-mas*, T3423 *Indigofera tinctoria*.
- encephalitis of early stage** T0379 *Alternanthera philoxeroides*.
- endometrorrhagia** T5868 *Selaginella stauntoniana*.
- enduring cough** T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T3567 *Juglans regia*, T4371 *Nandina domestica*, T4637 *Papaver somniferum*, T5228 *Prunus mume*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*.
- enduring cough and aphonia** T6347 *Terminalia chebula*.
- enduring cough and asthma** T0707 *Arthraxon hispidus*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3568 *Juglans regia*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurensis*, T4631 *Papaver nudicaule* var. *chinense*, T6825 *Winchia calophylla*.
- enduring cough and vacuity asthma** T1683 *Cordyceps sinensis*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- enduring cough with bloody phlegm** T1819 *Crotalaria ferruginea*.
- enduring diarrhea** T3128 *Hedysarum multijugum*, T4601 *Panax ginseng* [Syn. *Panax schinseng*], T4631 *Papaver nudicaule* var. *chinense*, T5329 *Punica granatum*.
- enduring diarrhea due to damp** T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*.
- enduring dysentery** T2721 *Ficus microcarpa*, T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T4631 *Papaver nudicaule* var. *chinense*, T5181 *Potentilla chinensis*, T5329 *Punica granatum*, T5573 *Rosa sericea*.
- enduring illness qi vacuity** T4599 *Panax ginseng* [Syn. *Panax schinseng*],

- T6150 *Streptopelia orientalis*.
- enduring illness vacuity** T0163 *Actinidia latifolia*.
- enduring low fever** T3600 *Juniperus taiwaniana*.
- enduring malaria** T0607 *Arenaria juncea*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T5107 *Polygonum multiflorum*, T5955 *Silene jensseensis*, T6727 *Veronica persica*.
- enduring sores** T0019 *Acacia catechu*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0540 *Apis cerana*, T0542 *Apis cerana*, T0994 *Boswellia carterii*, T1777 *Crataegus pinnatifida*, T2293 *Dumortiera hirsuta*, T2420 *Ericerus pela*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3407 *Illicium simonsii*, T4478 *Octopus vulgaris*, T4696 *Penaeus orientalis*, T5308 *Pterocarya stenoptera*, T5374 *Quercus infectoria*, T6615 *Uncaria gambir*.
- enduring vanquished sore** T1170 *Canis familiaris*.
- enduring welling abscess and flat abscess** T3129 *Hedysarum polybotrys*.
- enduring yin flat abscess** T1337 *Cervus nippon*; *Cervus elaphus*.
- enlargement of testes** T6099 *Stauntonia chinensis*.
- enteritis** T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0897 *Berberis amurensis*, T1316 *Cephalanthus occidentalis*, T1357 *Chelidonium majus*, T1573 *Clinopodium chinense*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1709 *Corydalis bungeana*, T2327 *Elaeagnus angustifolia*, T2357 *Emilia sonchifolia*, T2591 *Euphorbia humifusa*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T3123 *Hedyotis auricularia*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3163 *Helicteres angustifolia*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3363 *Hypericum sampsonii*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3547 *Ixeris chinensis*, T3548 *Ixeris sonchifolia*, T3847 *Lindera angustifolia*, T4148 *Medicago sativa*, T4220 *Microlepis strigosa* [Syn. *Trichomanes strigosa*], T4248 *Mimosa pudica*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4391 *Nauclea officinalis*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4834 *Phyllanthus emblica*, T4842 *Phyllanthus reticulatus*, T4843 *Phyllanthus urinaria*, T5104 *Polygonum hydropiper*, T5149 *Populus canadensis*, T5150 *Populus cathayana*, T5173 *Portulaca oleracea*, T5188 *Potentilla viscosa*, T5555 *Rodgersia pinnata*, T5587 *Rubus alceaefolius*, T5607 *Rumex crispus*, T5892 *Senecio nemorensis*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T5954 *Silene fortunei*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6075 *Spilanthes acmella*, T6116 *Stenoloma chusanum*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6277 *Tadehagi triquetrum*, T6353 *Tetracera asiatica*.
- enteritis and diarrhea** T0643 *Aristolochia versicolor*, T2079 *Delphinium kamaonense* var. *glabrescens*, T2529 *Euchresta strigillosa*, T3162 *Helicia nilagirica*, T3164 *Helicteres isora*, T5570 *Rosa roxburghii*, T6028 *Sophora alopecuroides*.
- enteritis and dysentery** T0642 *Aristolochia tubiflora*, T0776 *Asplenium prolongatum*.
- enuresis** T2805 *Fugu ocellatus*, T2838 *Gallus gallus domesticus*, T2962 *Ginkgo biloba*, T3000 *Glycine max*, T3568 *Juglans regia*, T3770 *Lespedeza cuneata*, T5270 *Psoralea corylifolia*, T5569 *Rosa multiflora*.
- enuresis and frequent urination** T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T2961 *Ginkgo biloba*, T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*], T5568 *Rosa laevigata*.
- enuresis due to kidney vacuity** T0360 *Alpinia oxyphylla*.
- epidemic encephalitis** T0318 *Allium sativum*, T3475 *Isatis indigotica*, T4552 *Osmunda japonica*.
- epidemic febrile diseases** T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*.
- epidemic hemorrhagic conjunctivitis** T0379 *Alternanthera philoxeroides*.
- epidemic meningitis** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- epidemic parotitis** T0045 *Acanthopanax trifoliatum*, T0379 *Alternanthera philoxeroides*, T0586 *Arctium lappa*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0906 *Berberis julianae*, T0959 *Blumea lacera*, T0975 *Bombyx mori*, T1275 *Cayratia japonica*, T2282 *Dryopteris filix-mas*, T2290 *Duchesnea indica*, T3163 *Helicteres angustifolia*, T3457 *Iris dichotoma*, T3475 *Isatis indigotica*, T3476 *Isatis indigotica*, T4183 *Menispermum dauricum*, T4186 *Mentha piperita*, T4482 *Oenanthe javanica*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4852 *Physalis peruviana*, T5121 *Polygonum tinctorium*, T5613 *Rumex obtusifolius*, T6003 *Solanum khasianum*, T6017 *Solanum tuberosum*, T6116 *Stenoloma chusanum*, T6128 *Stephania hernandifolia*, T6301 *Taraxacum mongolicum*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6548 *Tritonia crocosmaeflora*, T6820 *Wikstroemia indica*.
- epididymis tubercle** T6105 *Stellera chamaejasme*, T6540 *Tripterygium hypoglaucum*.
- epilepsy** T0088 *Aconitum coreanum*, T0142 *Acorus calamus*, T0190 *Adonis sutchuenensis*, T0298 *Alectoria vivens*, T0463 *Anemone altaica*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T0975 *Bombyx mori*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1525 *Cladonia fallax*, T1876 *Cucumis melo*, T2037 *Datura innoxia*, T2044 *Datura metel*, T2091 *Delphinium yunnanense*, T2412 *Equisetum sylvaticum*, T2596 *Euphorbia kansui*, T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3775 *Lethariella cladonioides*, T4418 *Nerium indicum*, T4423 *Nicandra physaloides*, T4903 *Pinellia pedatisecta*, T5547 *Ricinus communis*, T5871 *Selenarctos thibetanus*; *Ursus arctos*, T6145 *Stichopus japonicus*, T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*], T6416 *Thamnotia vermicularis*, T6522 *Trifolium repens*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*, T6819 *Wikstroemia chamaedaphne*, T6903 *Zephyranthes candida*.
- epilepsy and profuse phlegm** T4957 *Piper nigrum*.
- epilepsy of pregnancy** T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.

- eruptive dermatitis** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].
- erysipelas** T0434 *Amsonia sinensis*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0586 *Arctium lappa*, T0678 *Artemisia japonica*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0897 *Berberis amurensis*, T0906 *Berberis julianae*, T0947 *Bixa orellana*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1043 *Bryophyllum pinnatum*, T1256 *Castanea mollissima*, T1275 *Cayratia japonica*, T1565 *Clerodendron bungei*, T2517 *Eucalyptus robusta*, T2521 *Eucalyptus tereticornis*, T2658 *Fagopyrum esculentum*, T2731 *Firmiana simplex*, T2757 *Forsythia viridissima*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3410 *Impatiens balsamina*, T3423 *Indigofera tinctoria*, T3475 *Isatis indigotica*, T3476 *Isatis indigotica*, T3738 *Lemna minor*, T3990 *Lygodium japonicum*, T4206 *Metaplexis japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T4845 *Physalis alkekengi*, T4846 *Physalis alkekengi* var. *franchetii*, T5121 *Polygonum tinctorium*, T5173 *Portulaca oleracea*, T5194 *Premna microphylla*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5651 *Salix babylonica*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5773 *Saxifraga stolonifera*, T5818 *Scoparia dulcis*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6005 *Solanum lyratum*, T6008 *Solanum nigrum*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6767 *Viola yedoensis*.
- erysipelas wandering wind** T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*].
- erythematous lupus** T0334 *Aloe arborescens* var. *natalensis*, T2753 *Formica fusca*, T6540 *Tripterygium hypoglaucum*, T6542 *Tripterygium wilfordii*.
- erythra itch-pain** T3630 *Kleinhovia hospita*.
- excessive leukorrhea** T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T2208 *Dioscorea septemloba*, T2246 *Dolichos lablab*, T4400 *Nelumbo nucifera*, T5569 *Rosa multiflora*, T6029 *Sophora alopecuroides*.
- exterior damp** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*.
- exterior vacuity and common cold** T2955 *Geum japonicum*.
- externally contracted ardent fever** T1428 *Cinchona ledgeriana*, T1429 *Cinchona officinalis*, T1433 *Cinchona succirubra*.
- externally contracted wind evil** T5234 *Prunus persica*.
- externally contracted wind-cold** T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*].
- externally contracted wind-heat** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea suchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- externally contracted wind-heat cough** T2787 *Fritillaria hupehensis*.
- exuberance of fire with tidal fever** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- exuberant heat and vexation thirst** T1554 *Clerodendron cyrtophyllum*.
- exuberant heat fluid damage** T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T6526 *Triglochin maritimum*.
- exuberant heat stirring wind** T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- exudative dermatitis** T6403 *Thalictrum petaloideum*.
- exudative eczema** T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- eye diseases** T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T4188 *Mentha rotundifolia*, T6416 *Thamnia vermicularis*.
- eye pain** T1185 *Capsella bursa-pastoris*, T3635 *Koelreuteria paniculata*.
- eye pain and tearing** T3636 *Koelreuteria paniculata*.
- eye screen** T1035 *Broussonetia papyrifera*, T1185 *Capsella bursa-pastoris*, T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1296 *Celosia argentea*, T1746 *Corydalis taliensis*, T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T2267 *Drosera peltata* var. *lunata*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2336 *Elephas maximus*, T2408 *Equisetum hiemale*, T2517 *Eucalyptus robusta*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2772 *Fraxinus mandshurica*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2841 *Gallus gallus domesticus*, T3311 *Hydrocotyle sibthorpioides*, T3363 *Hypericum sampsonii*, T3957 *Lycium chinense*, T4349 *Myrica rubra*, T4471 *Ocimum basilicum*, T5413 *Ranunculus cantoniensis*, T5690 *Salvia roborowskii*, T5871 *Selenarctos thibetanus*; *Ursus arctos*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*], T6092 *Stachys palustris*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- eye swelling** T3635 *Koelreuteria paniculata*.
- eyeball night pain** T5214 *Prunella vulgaris*.
- eyebrow bone pain** T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*.
- eyeground hemorrhage** T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1184 *Capsella bursa-pastoris*.
- eyelid laceration** T0610 *Argemone mexicana*.
- facial muscle spasm** T2890 *Gastrodia elata*.
- facial paralysis** T0975 *Bombyx mori*, T3680 *Lamium amplexicaule*, T5183 *Potentilla griffithii* var. *velutina*, T5848 *Securinega suffruticosa*.
- fasciolopsiasis** T1591 *Cocos nucifera*, T1593 *Cocos nucifera*.
- fatigue hypodynamia** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*,

- T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3128 *Hedysarum multijugum*, T3743 *Lentinus lepideus*, T4545 *Oryza sativa*, T5465 *Rhaponticum carthamoides*, T6150 *Streptopelia orientalis*.
- fatigue hypodynamia due to spleen vacuity** T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- fatigue hypodynamia due to spleen-stomach vacuity** T0387 *Amaranthus caudatus*.
- fatigued spirit** T1337 *Cervus nippon*; *Cervus elaphus*, T1608 *Coffea arabica*, T1610 *Coffea liberica*, T1623 *Collybia albuminosa*.
- fatigued spirit and amnesia** T1961 *Cynanchum thesioides*.
- fatigued spirit and desire to sleep** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*.
- fatigued spirit and dizziness** T4385 *Narcissus tazetta* var. *chinensis*.
- fatigued spirit and hypodynamia** T3742 *Lentinus edodes*.
- fatigued spirit and lassitude** T4516 *Oplopanax elatus*.
- fatty liver** T5957 *Silybum marianum*.
- fearful throbbing** T5701 *Salvia yunnanensis*.
- febrile diseases** T1986 *Cyrtomium fortunei*, T2290 *Duchesnea indica*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3155 *Helianthus tuberosus*, T3200 *Hemidesmus indicus*, T3233 *Heteropappus altaicus*.
- febrile diseases clouded spirit** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0463 *Anemone altaica*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1907 *Curcuma wengujin*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- febrile diseases due to external contraction** T1554 *Clerodendron cyrtophyllum*.
- febrile diseases fluid damage** T0155 *Actinidia arguta*, T4602 *Panax ginseng* [Syn. *Panax schinseng*], T5186 *Potentilla reptans* var. *sericophylla*.
- febrile diseases macular eruption** T4127 *Matteuccia struthiopteris*, T4500 *Onosma paniculatum*.
- febrile diseases tetanic reversal** T2840 *Gallus gallus domesticus*.
- febrile diseases thirst** T1878 *Cucumis sativus*, T2628 *Euphrasia officinalis*, T6512 *Trichosanthes kirilowii*.
- febrile diseases with vexation and agitation** T6060 *Souliea vaginata*.
- febrile diseases with vexation and fullness** T4148 *Medicago sativa*, T4149 *Medicago sativa*.
- febrile diseases with vexation and thirst** T0722 *Arundo donax*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3416 *Imperata cylindrica* var. *major*, T3920 *Lophatherum gracile*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4402 *Nelumbo nucifera*, T4605 *Panax japonicus* var. *major*, T4829 *Phragmites communis*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T6206 *Sus scrofa domestica*.
- febrile infectious diseases** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisekala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T4029 *Maesa japonica*, T4479 *Odontites serotina*.
- fecal stoppage** T1858 *Croton tiglium*, T4845 *Physalis alkekengi*, T6076 *Spinacia oleracea*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*.
- fetal bleeding** T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*.
- fetal spotting** T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T1982 *Cyprinus carpio*.
- fetal spotting (precipitation of blood in pregnancy)** T5687 *Salvia prionitis*.
- fetal spotting due to kidney vacuity** T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*.
- fetus qi disharmony** T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*.
- fever** T0015 *Abutilon indicum*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0947 *Bixa orellana*, T1359 *Chenopodium album*, T1705 *Corydalis adunca*, T2343 *Elsholtzia splendens*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2697 *Ferula borealis*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3921 *Lophatherum gracile*, T4335 *Mussaenda pubescens*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*, T5863 *Selaginella moellendorffii*.
- fever and aversion to wind** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T6910 *Zingiber officinale*.
- fever and chest pain** T1705 *Corydalis adunca*.
- fever and cough** T4470 *Ocimum basilicum*, T5943 *Sida cordifolia*.
- fever and dry mouth** T2631 *Eurya japonica*.
- fever and headache** T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T2554 *Eupatorium cannabinum*, T2563 *Eupatorium japonicum*.
- fever and headache due to external contraction** T1544 *Cleistocalyx operculatus*.
- fever and sore pharynx** T4801 *Phlegmarius phlegmaria* [Syn. *Lycopodium phlegmaria*].
- fever due to external contraction** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T3749 *Leontopodium alpinum*.
- fever due to summerheat damage** T5402 *Radermachera sinica*.
- fever in children** T6224 *Swertia kouitchensis*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*.
- filariasis** T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*.
- fire eye** T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*];

Swertia kouitchensis.

Ophioglossum flexuosum], T5414 *Ranunculus japonicus*, T6224 *Swertia kouitchensis*.

fire flow T0594 *Ardisia crenata*.

fish bone stuck in throat T4384 *Narcissus tazetta* var. *chinensis*.

fish mouth sore toxin T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*].

fistula T2384 *Epicauta gorhami*, T4786 *Phasianus colchicus*, T4917 *Pinus massoniana*, T6080 *Spiraea japonica*.

flat abscess T6267 *Syzygium jambos*.

flat abscess (leaf) T0240 *Aglaiia odorata*.

flat wart T1614 *Coix lacryma-jobi* var. *ma-yuen*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*].

flooding T0215 *Agave americana*, T0860 *Balanophora japonica*, T0952 *Blechnum orientale*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T0976 *Bombyx mori*, T1145 *Camellia japonica*, T1174 *Cannabis sativa*, T1191 *Caragana sinica*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1673 *Corchorus capsularis*, T1674 *Corchorus capsularis*, T1682 *Cordyceps ophioglossoides*, T1888 *Cudrania tricuspidata*, T1986 *Cyrtomium fortunei*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2218 *Diospyros kaki*, T2540 *Euonymus fortunei*, T3054 *Gossypium barbadense*], T3055 *Gossypium herbaceum*, T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], T3547 *Ixeris chinensis*, T3671 *Lagerstroemia indica*, T3957 *Lycium chinense*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4361 *Myrsine africana*, T4606 *Panax pseudo-ginseng*, T4670 *Patrinia heterophylla*, T4673 *Patrinia scabra*, T4787 *Phellinus igniarius*, T5552 *Robinia pseudoacacia*, T5579 *Rubia cordifolia*, T5594 *Rubus parkeri*, T5697 *Salvia trijuga*, T5924 *Sesamum indicum*, T6018 *Solanum verbascifolium*, T6250 *Symplocos caudata*, T6485 *Trachycarpus fortunei*, T6551 *Trogopteris xanthipes*; *Pteromys volans*, T6615 *Uncaria gambir*, T6830 *Woodfordia fruticosa*.

flooding and spotting T0170 *Adhatoda vasica*, T0229 *Ageratum conyzoides*, T0249 *Agrimonia pilosa* var. *japonica*, T0255 *Ailanthus altissima*, T0664 *Artemisia argyi*, T0678 *Artemisia japonica*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T0736 *Asclepias curassavica*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0859 *Balanophora involucrata*, T0867 *Baphicacanthus cusia* [Syn. *Stribilanthes cusia*], T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0978 *Bombyx mori*, T0982 *Bos taurus domesticus*, T0993 *Boschniakia rossica*, T1116 *Callicarpa arborea*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1160 *Campsis grandiflora*, T1184 *Capsella bursa-pastoris*, T1425 *Cimicifuga simplex*, T1448 *Cirsium chinense*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratala setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1655 *Conyza blinii*, T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1735 *Corydalis*

repens, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2281 *Dryopteris crassirhizoma*, T2282 *Dryopteris filix-mas*, T2290 *Duchesnea indica*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2407 *Equisetum arvense*, T2435 *Eriochloa sinensis*, T2591 *Euphorbia humifusa*, T2826 *Galeola faberi*, T2837 *Gallus gallus domesticus*, T3056 *Gossypium herbaceum*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3123 *Hedyotis auricularia*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3241 *Hibiscus mutabilis*, T3242 *Hibiscus rosa-sinensis*, T3278 *Homo sapiens*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3361 *Hypericum perforatum*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3659 *Lactuca indica*, T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3736 *Lemnaphyllum microphyllum*, T3842 *Limonium gmelinii*, T3863 *Liparis nervosa*, T3926 *Loropetalum chinense*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4259 *Mnium cuspidatum*, T4343 *Myrica esculenta*, T4398 *Nelumbo nucifera*, T4399 *Nelumbo nucifera*, T4400 *Nelumbo nucifera*, T4552 *Osmunda japonica*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4656 *Parmelia saxatilis*, T4658 *Parmelia tinctorum*, T5104 *Polygonum hydropiper*, T5118 *Polygonum suffultum*, T5133 *Polytrichum commune*, T5173 *Portulaca oleracea*, T5228 *Prunus mume*, T5265 *Psidium guajava*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5328 *Punica granatum*, T5332 *Punica granatum*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia shearerii*, T5497 *Rhodiola kirilowii*, T5518 *Rhododendron mucronatum*, T5523 *Rhododendron simsii*, T5529 *Rhodomyrtus tomentosa*, T5541 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*], T5554 *Rodgersia aesculifolia*, T5567 *Rosa laevigata*, T5607 *Rumex crispus*, T5609 *Rumex hastatus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5614 *Rumex patientia*, T5661 *Salvia bowleyana*, T5671 *Salvia digitaloides*, T5672 *Salvia flava*, T5685 *Salvia plebeia*, T5701 *Salvia yunnanensis*, T5712 *Sanguisorba officinalis*, T5773 *Saxifraga stolonifera*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5850 *Sedum aizoon*, T5855 *Sedum kantschaticum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5862 *Selaginella involvens*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6742 *Vicia amoena*, T6831 *Woodwardia orientalis*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].

flooding and spotting [=metrorrhagia and metrostaxis] T0001 *Abelmoschus manihot*, T1033 *Broussonetia papyrifera*, T1034 *Broussonetia papyrifera*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3129 *Hedysarum polybotrys*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T4127 *Matteuccia struthiopteris*, T4549 *Osbeckia chinensis*, T5105

- Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5182 *Potentilla discolor*, T5185 *Potentilla multifida*, T5401 *Rabdosia yuennanensis*, T5573 *Rosa sericea*, T6533 *Trillium kamschatcicum*, T6535 *Trillium tschonoskii*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].
- flooding and spotting due to blood heat** T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- flooding and spotting with vaginal discharge** T0248 *Agrimonia pilosa*, T0297 *Alchornea trewioides*, T0500 *Anguilla japonica*, T0890 *Begonia limprichtii*, T1337 *Cervus nippon*; *Cervus elaphus*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T2280 *Dryopteris chrysocoma*, T5568 *Rosa laevigata*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.
- flooding and vaginal discharge with strangury-turbidity** T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*.
- flooding spotting and vaginal discharge** T4121 *Marsilea quadrifolia*.
- flowing phlegm** T1008 *Brassica juncea*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*.
- flowing rheum in chest** T2596 *Euphorbia kansui*.
- fluid damage and constipation** T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- fluid damage and thirst** T0535 *Antidesma bunioides*, T2101 *Dendrobium fimbriatum*, T2983 *Glehnia littoralis*, T3875 *Liriope spicata* var. *prolifera*, T4288 *Morus alba*, T4507 *Ophiopogon japonicus*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T5218 *Prunus armeniaca*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*, T6266 *Syzygium cumini*, T6919 *Ziziphus jujuba* var. *spinosa*.
- fluid damage with vexation and thirst** T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- food accumulation** T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1467 *Citrus aurantium*, T1563 *Clerodendron trichotomum*, T1687 *Coriandrum sativum*, T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T1958 *Cynanchum otophyllum*, T2365 *Enteromorpha clathrata*, T2387 *Epilobium hirsutum*, T2505 *Eucalyptus citriodora*, T2580 *Euphorbia antiquorum*, T2612 *Euphorbia prolifera*, T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*], T3282 *Hordeum vulgare*, T4954 *Piper longum*, T5140 *Poncirus trifoliata*, T5239 *Prunus salicina*, T5361 *Pyrus betulaeifolia*, T5401 *Rabdosia yuennanensis*, T5469 *Rheum hotaoense*, T6049 *Sophora viciifolia*, T6105 *Stellera chamaejasme*, T6312 *Taxus mairei*.
- food accumulation abdominal distention** T0680 *Artemisia lactiflora*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T3308 *Hydrangea umbellata*, T3436 *Inula nervosa*, T4542 *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*], T5267 *Psidium guajava*, T5461 *Rhamnus leptophylla*.
- food accumulation abdominal pain** T0142 *Acorus calamus*, T0661 *Artemisia anomala*, T3006 *Glycosmis citrifolia*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*.
- food accumulation and distending pain in stomach duct** T1291 *Celastrus paniculatus*.
- food accumulation and qi distention** T3885 *Litsea cubeba*.
- food accumulation and qi stagnation** T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*, T4048 *Magnolia rostrata*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*.
- food accumulation diarrhea** T2998 *Glycine max*, T6789 *Vitex negundo*.
- food accumulation distention and fullness** T0932 *Betula luminifera*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T2189 *Dioscorea althaeoides*, T5189 *Pothos chinensis*, T5419 *Raphanus sativus*, T5570 *Rosa roxburghii*, T6356 *Tetrapanax papyriferus*.
- food accumulation stomachache** T5183 *Potentilla griffithii* var. *velutina*.
- food damage** T2733 *Firmiana simplex*.
- food damage diarrhea** T5113 *Polygonum persicaria*.
- food damage vomiting and diarrhea** T0356 *Alpinia galanga*.
- food poisoning** T2715 *Fibraurea recisa*, T3000 *Glycine max*, T3162 *Helicia nilagirica*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T3988 *Lycoris squamigera*.
- food retention and abdominal distention** T4088 *Malus pumila*.
- food stagnation** T0606 *Areca catechu*, T1478 *Citrus grandis*, T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T2838 *Gallus gallus domesticus*, T4100 *Mangifera indica*, T4428 *Nicotiana tabacum*, T4544 *Oryza sativa*, T5420 *Raphanus sativus*, T5719 *Sapindus mukorossi*, T5720 *Sapindus mukorossi*.
- food stagnation abdominal distention** T5167 *Porana racemosa*.
- food stagnation and abdominal fullness** T1381 *Choerospondias axillaris*.
- food stagnation and diarrhea** T5244 *Prunus tomentosa*.
- food stagnation distention and fullness** T1179 *Capparis masaiikai*.
- food stagnation in torpid stomach** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T2758 *Fortunella crassifolia*, T2759 *Fortunella japonica*, T2760 *Fortunella margarita*.
- food stagnation with torpid intake** T3006 *Glycosmis citrifolia*.
- food-denying dysentery** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*.
- foot lichen** T1046 *Buddleja davidii*, T2590 *Euphorbia hirta*, T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*], T3560 *Jatropha curcas*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T5026 *Plumbagella micrantha*, T5104 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5724 *Sapium sebiferum*.
- foot rot** T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T1205 *Carica papaya*, T1316 *Cephalanthus occidentalis*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T4799 *Philydrum lanuginosum*.
- forking qi with pain** T3431 *Inula helenium*, T3437 *Inula racemosa*.

- fracture** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0122 *Aconitum pendulum*, T0282 *Alangium kurzii*, T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T0568 *Aralia chinensis*, T0569 *Aralia cordata*, T0570 *Aralia dasyphylla*, T0574 *Aralia fargesii*, T0708 *Arthomeris mairei* [Syn. *Polypodium mairei*], T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0871 *Barleria lupulina*, T1147 *Camellia oleifera*, T1206 *Carica papaya*, T1327 *Ceratostigma minus*, T1328 *Ceratostigma plumbaginoides*, T1329 *Ceratostigma willmottianum*, T1372 *Chloranthus serratus*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1535 *Clausena excavata*, T1644 *Conocephalum conicum*, T1799 *Crinum latifolium*, T1841 *Croton caudatus* var. *tomentosus*, T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*], T1871 *Cucubalus baccifer*, T1963 *Cynanchum wallichii*, T1967 *Cynoglossum amabile*, T2612 *Euphorbia prolifera*, T2614 *Euphorbia pulcherrima*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2955 *Geum japonicum*, T3089 *Gypsophila acutifolia*, T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3303 *Hydrangea chinensis*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3387 *Ilesia polycarpa*, T3418 *Incarvillea arguta*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3685 *Lansea grandis* [Syn. *Lansea coromandelica*], T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T3880 *Lithospermum arvense*, T3991 *Lyonia ovalifolia*, T3995 *Lysidice rhodostegia*, T4109 *Marchantia polymorpha*, T4118 *Marsdenia oreophila*, T4143 *Meconopsis horridula*, T4221 *Micromelum falcatum*, T4223 *Micromelum integerrimum*, T4320 *Murraya kwangsiensis*, T4346 *Myrica nagi* [Syn. *Podocarpus nagi*], T4444 *Nothopanax davidii*, T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T4686 *Pedilanthus tithymaloides*, T4726 *Periploca forrestii*, T4938 *Piper boehmeriaefolium*, T5189 *Pothos chinensis*, T5270 *Psoralea corylifolia*, T5279 *Psychotria serpens*, T5402 *Radermachera sinica*, T5515 *Rhododendron micranthum*, T5555 *Rodgersia pinnata*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5733 *Sarcococca vagans*, T5781 *Schefflera arboricola*, T5785 *Schefflera venulosa*, T5794 *Schisandra lancifolia*, T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*], T5942 *Sida acuta*, T6051 *Sorbaria arborea*, T6052 *Sorbaria sorbifolia*, T6444 *Thunbergia grandiflora*, T6531 *Trillium camtschaticum*, T6540 *Tripterygium hypoglaucum*, T6580 *Tylophora floribunda*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6738 *Viburnum odoratissimum*.
- fracture and pain** T3560 *Jatropha curcas*.
- fracture due to knocks and falls** T0045 *Acanthopanax trifoliatum*, T0295 *Albizia odoratissima*, T2262 *Dregea sinensis*, T2347 *Embelia parviflora*, T2387 *Epilobium hirsutum*, T2540 *Euonymus fortunei*, T3996 *Lysimachia candida*, T4031 *Maesa perlaris*, T6567 *Tupistra watii* [Syn. *Campylandra watii*], T6735 *Viburnum dilatatum*, T6883 *Zanthoxylum myriacanthum*.
- fracture with damage** T3124 *Hedyotis capitellata*.
- fracture with wound sinew** T4821 *Pholidota articulata*.
- frequent dreaming** T5108 *Polygonum multiflorum*, T5697 *Salvia trijuga*, T6919 *Ziziphus jujuba* var. *spinosa*.
- frequent urination** T0323 *Allium tuberosum*, T0360 *Alpinia oxyphylla*, T0793 *Astragalus complanatus*, T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T2188 *Dioscorea alata*, T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T2837 *Gallus gallus domesticus*, T2838 *Gallus gallus domesticus*, T3077 *Gymnadenia conopsea*, T3568 *Juglans regia*, T3770 *Lespedeza cuneata*, T4279 *Morina chinensis*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4786 *Phasianus colchicus*, T5270 *Psoralea corylifolia*, T5569 *Rosa multiflora*, T6754 *Vigna unguiculata*.
- frequent urination and enuresis** T5593 *Rubus idaeus*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- frequent urination at night** T2962 *Ginkgo biloba*.
- frequent urination in children** T1826 *Crotalaria mucronata*.
- fright epilepsy** T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T1841 *Croton caudatus* var. *tomentosus*, T1907 *Curcuma wengujin*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2290 *Duchesnea indica*, T3329 *Hyoscyamus niger*, T3868 *Liquidambar orientalis*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T6457 *Tilia japonica*, T6458 *Tilia miqueliana*.
- fright palpitation** T1808 *Crocus sativus*, T4400 *Nelumbo nucifera*, T5701 *Salvia yunnanensis*, T6919 *Ziziphus jujuba* var. *spinosa*.
- fright palpitation and amnesia** T0142 *Acorus calamus*, T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- fright palpitation and fearful throbbing** T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*], T6918 *Ziziphus jujuba* var. *spinosa*.
- fright palpitation and insomnia** T4599 *Panax ginseng* [Syn. *Panax schinseng*], T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T5169 *Poria cocos*.
- fright palpitation and vacuity vexation** T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*].
- fright palpitation due to heart heat** T3304 *Hydrangea macrophylla*.
- fright wind** T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T3764 *Lepisorus thunbergianus*, T4903 *Pinellia pedatisecta*, T5871 *Selenarctos thibetanus*; *Ursus arctos*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*.
- fright wind and convulsion** T0975 *Bombyx mori*, T2908 *Gentiana*

- cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T4710 *Pericampylus glaucus*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*.
- frostbite [= kibe]** T0122 *Aconitum pendulum*, T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*], T0827 *Aucuba chinensis* ssp. *omeiensis*, T0977 *Bombyx mori*, T1007 *Brassica juncea*, T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*, T1594 *Cocos nucifera*, T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3675 *Lagopsis supina*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4157 *Melia azedarach*. T4519 *Opuntia dilleanii*, T4521 *Opuntia vulgaris*, T4578 *Paederia scandens*, T4975 *Piptanthus nanus*, T5419 *Raphanus sativus*, T6006 *Solanum melongena*.
- frostbite flowing water and pus** T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*].
- fullness and oppression in chest and diaphragm** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1007 *Brassica juncea*, T3819 *Ligusticum brachylobum*, T4761 *Peucedanum longshengensis*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaula*.
- fullness and oppression in chest and stomach duct** T6561 *Tulipa gesneriana*.
- fullness and oppression in heart and abdomen** T5215 *Prunus amygdalus*.
- fullness in chest** T6497 *Tribulus terrestris*.
- fullness in chest and rapid asthma** T1960 *Cynanchum stauntonii*.
- fullness in chest and rib-side pain** T5011 *Platycodon grandiflorum*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*].
- fulminant fever with vexation and thirst** T4482 *Oenanthe javanica*.
- furunculosis** T5330 *Punica granatum*.
- galactostasis** T0273 *Akebia quinata*, T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0279 *Akebia trifoliata* var. *australis*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T1508 *Citrus sinensis*, T2262 *Dregea sinensis*, T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3282 *Hordeum vulgare*, T3340 *Hypericum ascyron*, T3361 *Hypericum perforatum*, T3662 *Lactuca sativa*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4106 *Manis pentadactyla*, T4178 *Melodinus hemsleyanus*, T5466 *Rhaponticum uniflorum*, T6356 *Tetrapanax papyriferus*, T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], T6901 *Zea mays*.
- galloping gan of teeth and gum** T2435 *Eriocheir sinensis*, T4471 *Ocimum basilicum*.
- galstones** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T1406 *Chrysosplenium nudicaule*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T2838 *Gallus gallus domesticus*, T3156 *Helichrysum arenarium*, T3998 *Lysimachia christinae*, T4000 *Lysimachia congestiflora*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5957 *Silybum marianum*, T6789 *Vitex negundo*, T6901 *Zea mays*.
- gan accumulation** T0541 *Apis cerana*, T0877 *Bauhinia championii*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1591 *Cocos nucifera*, T1593 *Cocos nucifera*, T2048 *Daucus carota*, T2115 *Dermatocarpon minutum*, T2336 *Elephas maximus*, T2927 *Gentiana rhodantha*, T4102 *Mangifera indica*, T5106 *Polygonum lapathifolium*, T5179 *Potentilla anserina*, T5423 *Rauvolfia verticillata*, T5425 *Rauvolfia verticillata* f. *rubrocarpa*, T5426 *Rauvolfia verticillata* var. *hainanensis*, T5427 *Rauvolfia vomitoria*, T5435 *Rauvolfia latifrons*, T5441 *Rauvolfia perakensis*, T5528 *Rhodomyrtus tomentosa*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5719 *Sapindus mukorossi*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6602 *Umbilicaria hypococcinea*, T6656 *Ustilago maydis*, T6732 *Vespertilio superans*.
- gan disease** T0976 *Bombyx mori*, T3645 *Kummerowia striata*, T4851 *Physalis minima*, T5407 *Rana nigromaculata*; *Rana plancyi*, T6279 *Tagetes erecta*.
- gan of nose** T1150 *Camellia sinensis* [Syn. *Thea sinensis*], T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*].
- gan of teeth and gum** T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2838 *Gallus gallus domesticus*, T2866 *Garcinia morella*, T3277 *Homo sapiens*, T3865 *Lippia nodiflora*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T6615 *Uncaria gambir*.
- gan sore pox toxin** T2841 *Gallus gallus domesticus*.
- gastric ulcer** T0543 *Apis mellifera ligustica*, T0825 *Atropa belladonna*, T1101 *Caesalpinia decapetala*, T1884 *Cudrania cochinchinensis*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3164 *Helicteres isora*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T4082 *Mallotus japonicus*, T5183 *Potentilla griffithii* var. *velutina*, T6145 *Stichopus japonicus*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*].
- gastritis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1727 *Corydalis mucronifera*, T1954 *Cynanchum chinense*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T4194 *Menyanthes trifoliata*, T4248 *Mimosa pudica*, T6224 *Swertia kouitchensis*, T6231 *Swertia pseudochinensis*, T6339 *Tephrosia purpurea*, T6691 *Veratrum baillonii*.
- gastritis with edema** T1954 *Cynanchum chinense*.
- gastroenteritis** T0137 *Aconitum tanguticum*, T2421 *Erigeron annuus*, T2563 *Eupatorium japonicum*, T2715 *Fibraurea recisa*, T3092 *Halenia corniculata*, T4144 *Meconopsis nepaulensis*, T6122 *Stephania*

- dielsiana*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*].
- gastrointestinal accumulation** T2658 *Fagopyrum esculentum*.
- gastrointestinal damp-heat diarrhea** T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*.
- gastrointestinal flatulence** T3263 *Holarrhena antidysenterica*.
- gastrointestinal spasm** T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*].
- gastrointestinal ulcer** T0060 *Achillea alpina* [Syn. *Achillea sibirica*].
- gastroptosis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- gastrospasm** T0572 *Aralia elata*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*].
- ge syndrome** T4369 *Nandina domestica*.
- general arthralgia** T2995 *Gloriosa superba*.
- generalized fever** T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- generalized fever and aversion to cold** T4101 *Mangifera indica*.
- generalized fever with macule** T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2952 *Gerbera piloselloides*, T6582 *Tylophora ovata*.
- generalized pain** T3118 *Hedychium coronarium*, T3674 *Laggera alata*, T4029 *Maesa japonica*, T4551 *Osmorhiza aristata* var. *laxa*.
- genital carcinoma** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*].
- genital sweating** T4954 *Piper longum*, T5374 *Quercus infectoria*.
- genital swelling** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T4714 *Perilla frutescens*.
- genital swelling and itch** T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*.
- gingiva painful swelling** T0584 *Arctium lappa*, T3201 *Hemiphragma heterophyllum*, T5267 *Psidium guajava*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- gingiva ulcerating** T3420 *Incarvillea sinensis*.
- gingivitis** T6095 *Stachytarpheta jamaicensis*.
- globus hystericus** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T5139 *Poncirus trifoliata*, T5226 *Prunus mume*.
- glomerulonephritis** T6542 *Tripterygium wilfordii*.
- glomus** T0357 *Alpinia japonica*.
- glomus accumulation** T6541 *Tripterygium regelii*.
- glomus and congestion in chest and diaphragm** T4086 *Malus asiatica*.
- glomus and oppression in chest and diaphragm** T1808 *Crocus sativus*.
- glomus and oppression in chest and stomach duct** T0212 *Agastache rugosus*, T1978 *Cyperus rotundus*.
- glomus distention in stomach duct and abdomen** T1490 *Citrus limon*, T1494 *Citrus limonia*, T1937 *Cydonia oblonga*.
- glomus fullness** T0472 *Anethum graveolens*, T3850 *Lindera glauca*, T3928 *Lotus corniculatus*, T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*.
- glomus fullness in chest and diaphragm** T3426 *Inula britannica*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3433 *Inula japonica*, T3434 *Inula linariaefolia*.
- glomus in chest** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T1467 *Citrus aurantium*, T4904 *Pinellia ternata*, T5140 *Poncirus trifoliata*.
- glomus qi** T0988 *Bos taurus domesticus*; *Bubalus bubalis*.
- goiter and carcinoma of neck** T0847 *Baccharis indica* [Syn. *Pluchea indica*], T1385 *Chorda filum*, T2365 *Enteromorpha clathrata*, T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], T6257 *Syngnathus acus*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*.
- goiter and carcinomas of neck** T5740 *Sargassum vachellianum*.
- goiter and tuberculosis** T0275 *Akebia quinata*, T1486 *Citrus junos*, T2191 *Dioscorea bulbifera*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2321 *Ecklonia kurome*, T2525 *Eucheuma muricatum*, T2756 *Forsythia suspensa*, T2994 *Gloiopeltis furcata*, T3308 *Hydrangea umbellata*, T3678 *Laminaria japonica*, T5171 *Porphyra tenera*, T5214 *Prunella vulgaris*, T6640 *Undaria pinnatifida*, T6925 *Zostera marina*.
- goiters with phlegm node** T4904 *Pinellia ternata*.
- goose-foot wind** T1867 *Cryptomeria fortunei*, T3410 *Impatiens balsamina*, T3411 *Impatiens balsamina*, T5026 *Plumbagella micrantha*, T5548 *Ricinus communis*.
- goose-mouth sore** T4080 *Mallotus apelta*, T4618 *Panicum miliaceum*, T6268 *Syzygium samarangense*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*].
- great wind sore** T0145 *Acorus gramineus*.
- gum erosion** T0293 *Albizia lebeck*.
- gum hemorrhage** T0155 *Actinidia arguta*, T0805 *Astragalus sinicus*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T3278 *Homo sapiens*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5207 *Prismatomeris tetrandra*, T5606 *Rumex acetosa*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*.
- gum swelling** T0906 *Berberis julianae*, T4854 *Physalis pubescens*, T5651 *Salix babylonica*.
- gum swelling and pain** T0476 *Angelica anomala*, T0571 *Aralia decaisneana*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3457 *Iris dichotoma*, T4848 *Physalis angulata*, T5199 *Primula malacoides*, T5852 *Sedum bulbiferum*, T6439 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- gum swelling erosion** T1007 *Brassica juncea*.
- habitual abortion** T4505 *Ophiocephalus argus*.

- habitual constipation** T1238 *Cassia mimosoides*, T1240 *Cassia obtusifolia*, T1247 *Cassia sophera*, T1250 *Cassia tora*, T5454 *Rhamnus cathartica*, T5460 *Rhamnus frangula* [Syn. *Frangula alnus*].
- hacking of blood** T0267 *Ajuga nipponensis*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T5182 *Potentilla discolor*, T5701 *Salvia yunnanensis*.
- hacking of pus blood** T3233 *Heteropappus altaicus*.
- hair loss** T3860 *Linum usitatissimum*.
- hair loss during convalescence** T5927 *Sesamum indicum* [Syn. *Sesamum orientale*].
- hard glomus below heart** T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3434 *Inula linariaefolia*.
- hard swelling** T6521 *Trifolium pratense*, T6522 *Trifolium repens*.
- hasten delivery** T1595 *Codium fragile*.
- hasty asthma** T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- head louse** T1361 *Chenopodium ambrosioides*, T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T3630 *Kleinhovia hospita*.
- head sore** T4843 *Phyllanthus urinaria*.
- head wind** T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T5234 *Prunus persica*, T6792 *Vitex trifolia*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- head wind dizziness** T0988 *Bos taurus domesticus*; *Bubalus bubalis*, T4773 *Peucedanum terebinthaceum*.
- head wind headache** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0108 *Aconitum kusnezoffii*, T0957 *Blumea balsamifera*, T4828 *Photinia serrulata*.
- head wind white scaling** T5531 *Rhus chinensis* [Syn. *Rhus semialata*].
- headache** T0045 *Acanthopanax trifoliatum*, T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*], T0088 *Aconitum coreanum*, T0302 *Alhagi pseudalhagi*, T0319 *Allium schoenoprasum*, T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T0553 *Apocynum venetum*, T0567 *Aralia armata*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T0582 *Archangelica brevicaulis* [Syn. *Angelicarpa brevicaulis*; *Angelica brevicaulis*], T0584 *Arctium lappa*, T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0724 *Asarum caulescens*, T0726 *Asarum forbesii*, T0727 *Asarum fukienense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0729 *Asarum maximum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0952 *Blechnum orientale*, T1084 *Buthus martensi*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1552 *Cleome viscosa*, T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1586 *Cocculus laurifolius*, T1641 *Conioselinum vaginatum*, T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T1943 *Cymbopogon goeringii*, T1986 *Cyrtomium fortunei*, T2028 *Daphne odora*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2130 *Desmodium gangeticum*, T2257 *Dracocephalum moldavicum*, T2343 *Elsholtzia splendens*, T2434 *Eriocaulon buergerianum*, T2628 *Euphrasia officinalis*, T2643 *Evodia meliifolia*, T2697 *Ferula borealis*, T2890 *Gastrodia elata*, T3001 *Glycine max*, T3040 *Gomphrena globosa*, T3118 *Hedychium coronarium*, T3163 *Helicteres angustifolia*, T3213 *Heracleum hemsleyanum*, T3214 *Heracleum lanatum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3222 *Heracleum scabridum*, T3228 *Heracleum yungningense*, T3246 *Hibiscus syriacus*, T3283 *Hosta sieboldiana*, T3303 *Hydrangea chinensis*, T3334 *Hypecoum leptocarpum*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3548 *Ixeris sonchifolia*, T3779 *Leucas aspera*, T3785 *Levisticum officinale*, T3796 *Libanotis buchtormensis*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3829 *Ligustrum robustum*, T3845 *Linaria vulgaris*, T3847 *Lindera angustifolia*, T3950 *Lychnis fulgens*, T4001 *Lysimachia davurica*, T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T4144 *Meconopsis nepaulensis*, T4145 *Meconopsis punicea*, T4170 *Melilotus albus*, T4186 *Mentha piperita*, T4190 *Mentha spicata*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4631 *Papaver nudicaule* var. *chinense*, T4689 *Peganum nigellastrum*, T4821 *Pholidota articulata*, T4904 *Pinellia ternata*, T4953 *Piper longum*, T5021 *Pleurospermum rivulorum*, T5234 *Prunus persica*, T5301 *Pterocarpus indicus*, T5428 *Rauwolfia yunnanensis*, T5528 *Rhodomyrtus tomentosa*, T5575 *Rosmarinus officinalis*, T5592 *Rubus hirsutus*, T5609 *Rumex hastatus*, T5640 *Sabina vulgaris*, T5657 *Salsola collina*, T5781 *Schefflera arboricola*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5963 *Sinodielsia yunnanensis*, T5969 *Sium latifolium*, T6000 *Solanum indicum*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6076 *Spinacia oleracea*, T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*, T6128 *Stephania hernandifolia*, T6139 *Sterculia lychnophora*, T6250 *Symplocos caudata*, T6359 *Teucrium bidentatum*, T6497 *Tribulus terrestris*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*.
- headache (especially in forehead and superciliary region)** T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*].
- headache (herb)** T4859 *Physochlaina physaloides*.
- headache**^[5509] T4797 *Phillyrea latifolia*.
- headache and dizziness** T0544 *Apium graveolens*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1393 *Chrysanthemum indicum*, T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T5214 *Prunella vulgaris*.
- headache and generalized pain** T0784 *Astilbe chinensis*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T5423 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebourielia seseloides*], T6457 *Tilia japonica*, T6458 *Tilia miqeliana*.
- headache and nasal congestion** T0476 *Angelica anomala*, T4039 *Magnolia grandiflora*, T6910 *Zingiber officinale*.

- headache and red eyes** T1241 *Cassia occidentalis*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T6373 *Thalictrum alpinum*.
- headache and sore pharynx** T4413 *Nepeta cataria*.
- headache due to externally contracted wind-cold** T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*.
- headache due to externally contracted wind-heat** T0049 *Acer ginnala*, T4976 *Piptanthus nepalensis*, T5119 *Polygonum thunbergii*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- headache due to febrile disease** T1045 *Bubalus bubalis*.
- headache without sweating** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*.
- heart disease** T1452 *Cissampelos pareira*, T1453 *Cissampelos pareira* var. *hirsute*, T3394 *Ilex paraguariensis*.
- heart palpitation** T5661 *Salvia bowleyana*.
- heartache** T1182 *Capra hircus*; *Ovis aries*.
- heart-spleen vacuity** T3743 *Lentinus lepideus*.
- heat bind and accumulation** T1229 *Cassia acutifolia*, T1230 *Cassia angustifolia*.
- heat bind constipation** T5469 *Rheum hotaoense*, T5607 *Rumex crispus*, T6139 *Sterculia lychnophora*.
- heat bind in bladder** T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*.
- heat blood strangury** T0979 *Bombyx mori*.
- heat cough** T4846 *Physalis alkekengi* var. *franchetii*.
- heat diarrhea** T0853 *Baeckea frutescens*, T4616 *Pandanus tectorius*, T5099 *Polygonum bistorta*.
- heat dysentery** T0696 *Artemisia sieversiana*, T2221 *Diospyros kaki*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T3476 *Isatis indigotica*, T3865 *Lippia nodiflora*, T5121 *Polygonum tinctorium*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5605 *Rumex acetosa*.
- heat entering construction-blood** T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- heat entering pericardium** T4401 *Nelumbo nucifera*.
- heat impediment** T4799 *Philydrum lanuginosum*.
- heat impediment swelling and pain** T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- heat impediment** T2056 *Debregeasia longifolia*.
- heat pain in stomach duct and abdomen** T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*.
- heat sore** T2840 *Gallus gallus domesticus*.
- heat strangury** T0073 *Achyranthes bidentata*, T0264 *Ajuga forrestii*, T0297 *Alchornea trewioides*, T0721 *Arundina chinensis*, T0722 *Arundo donax*, T0736 *Asclepias curassavica*, T0853 *Baeckea frutescens*, T0906 *Berberis julianae*, T1001 *Brachystemma calycinum*, T1251 *Cassytha filiformis*, T1526 *Cladonia rangiferina*, T1831 *Crotalaria sessiliflora*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2134 *Desmodium styracifolium*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2325 *Eichhornia crassipes*, T2628 *Euphrasia officinalis*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T2952 *Gerbera piloselloides*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T3284 *Houttuynia cordata*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3953 *Lycianthes biflora*, T3990 *Lygodium japonicum*, T3998 *Lysimachia christinae*, T4121 *Marsilea quadrifolia*, T4252 *Mirabilis jalapa*, T4369 *Nandina domestica*, T4370 *Nandina domestica*, T4456 *Nymphoides peltatum*, T4800 *Phlegmariurus fordii*, T4840 *Phyllanthus niruri*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T5098 *Polygonum aviculare*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T5838 *Scutellaria galericulata*, T5857 *Sedum sarmentosum*, T5954 *Silene fortunei*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6095 *Stachytarpheta jamaicensis*, T6582 *Tylophora ovata*, T6709 *Verbena officinalis*.
- heat strangury with inhibited pain** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0632 *Aristolochia manshuriensis*, T1163 *Commelina communis*, T2756 *Forsythia suspensa*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3416 *Imperata cylindrica* var. *major*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4829 *Phragmites communis*, T6226 *Swertia mileensis*, T6301 *Taraxacum mongolicum*.
- heat toxin** T2884 *Gardenia jasminoides* var. *grandiflora*.
- heat toxin and phlegm-fire stasis** T0892 *Belamcanda chinensis*.
- heat toxin blood dysentery** T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3913 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T5173 *Portulaca oleracea*.
- heat toxin diarrhea dysentery** T1544 *Cleistocalyx operculatus*.
- heat toxin dysentery** T0511 *Annona reticulata*, T1554 *Clerodendron cyrtophyllum*, T6367 *Teucrium quadrifarium*.
- heat toxin macula** T1425 *Cimicifuga simplex*, T2280 *Dryopteris chrysocoma*.
- heat toxin scab and lai** T1538 *Clausena lansium*.
- heat toxin sore and welling abscess** T2293 *Dumortiera hirsuta*, T5836 *Scutellaria discolor*.
- heat toxin sores** T0906 *Berberis julianae*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3284 *Houttuynia cordata*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3957 *Lycium chinense*, T5018 *Pleuropterus ciliinervis*,

- T5388 *Rabdosia adenantha*, T5626 *Ruta graveolens*.
- heat toxin swollen welling abscess** T0161 *Actinidia eriantha*, T0902 *Berberis diaphana*, T0920 *Berberis wilsonae*, T1004 *Brasenia schreberi*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T4803 *Phlogacanthus curviflorus*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5851 *Sedum alfredii* [Syn. *Sedum formosanum*], T5852 *Sedum bulbiferum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T6007 *Solanum melongena*, T6119 *Stephania cepharantha*.
- heat vexation** T0158 *Actinidia chinensis*, T2222 *Diospyros lotus*, T5227 *Prunus mume*, T5642 *Saccharum sinensis*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*].
- heat vexation and disquiet** T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T1526 *Cladonia rangiferina*.
- heat vexation and insomnia** T4555 *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*.
- heat vexation and thirst** T2221 *Diospyros kaki*, T2433 *Eriobotrya japonica*, T4834 *Phyllanthus emblica*, T6794 *Vitis amurensis*.
- heat vexation in chest** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T1471 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*, T1516 *Citrus tankan*, T1518 *Citrus unshiu*.
- heat wind in heart and diaphragm** T1232 *Cassia fistula*.
- heaven-borne sore** T1316 *Cephalanthus occidentalis*, T4848 *Physalis angulata*, T4851 *Physalis minima*, T4852 *Physalis peruviana*, T4854 *Physalis pubescens*, T6745 *Vicia faba*.
- heavy dreams and amnesia** T0463 *Anemone altaica*.
- heavy head and generalized pain** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*.
- heavy head and low food intake** T4577 *Paederia scandens*.
- hematochezia** T0226 *Agave sisalana*, T0248 *Agrimonia pilosa*, T0661 *Artemisia anomala*, T0678 *Artemisia japonica*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T0955 *Bletilla striata*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0976 *Bombyx mori*, T0991 *Bos taurus domesticus*; *Bubalus bubalis*, T1033 *Broussonetia papyrifera*, T1145 *Camellia japonica*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1655 *Conyza blinii*, T1684 *Cordyline stricta*, T1928 *Cycas revoluta*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2221 *Diospyros kaki*, T2279 *Dryopteris championii*, T2281 *Dryopteris crassirhizoma*, T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2407 *Equisetum arvense*, T2420 *Ericerus pela*, T2591 *Euphorbia humifusa*, T2691 *Farfugium japonicum*, T3054 *Gossypium barbadense*, T3055 *Gossypium herbaceum*, T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3129 *Hedysarum polybotrys*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3334 *Hypocoum leptocarpum*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3460 *Iris halophila*, T3461 *Iris japonica*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3736 *Lemnaphyllum microphyllum*, T3769 *Lespedeza bicolor*, T3926 *Loropetalum chinense*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4259 *Mnium cuspidatum*, T4361 *Myrsine africana*, T4398 *Nelumbo nucifera*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4549 *Osbeckia chinensis*, T4552 *Osmunda japonica*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T5104 *Polygonum hydropiper*, T5118 *Polygonum suffultum*, T5133 *Polytrichum commune*, T5142 *Poncirus trifoliata*, T5173 *Portulaca oleracea*, T5228 *Prunus mume*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5295 *Pteris multifida*, T5328 *Punica granatum*, T5372 *Quercus dentata*, T5374 *Quercus infectoria*, T5419 *Raphanus sativus*, T5449 *Reineckea carnea*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5518 *Rhododendron mucronatum*, T5529 *Rhodomyrtus tomentosa*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T5541 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*], T5554 *Rodgersia aesculifolia*, T5594 *Rubus parkeri*, T5605 *Rumex acetosa*, T5607 *Rumex crispus*, T5614 *Rumex patientia*, T5673 *Salvia glutinosa*, T5712 *Sanguisorba officinalis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5840 *Scutellaria indica*, T5850 *Sedum aizoon*, T5855 *Sedum kantschaticum*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5862 *Selaginella involvens*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T5870 *Selaginella uncinata*, T6034 *Sophora japonica*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6048 *Sophora viciifolia*, T6076 *Spinacia oleracea*, T6116 *Stenoloma chusanum*, T6251 *Symplocos caudata*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*, T6367 *Teucrium quadrifarium*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6485 *Trachycarpus fortunei*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6615 *Uncaria gambir*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6764 *Vinegar*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].
- hematochezia due to blood heat** T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- hematochezia from hemorrhoids** T3192 *Hemerocallis citrina*, T3928 *Lotus corniculatus*, T4148 *Medicago sativa*.
- hematosepsis** T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- hematuria** T0248 *Agrimonia pilosa*, T0297 *Alchornea trewioides*, T0322 *Allium tuberosum*, T0379 *Alternanthera philoxeroides*, T0635 *Aristolochia moupinensis*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0661 *Artemisia anomala*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0976 *Bombyx mori*, T0993 *Boschniakia rossica*, T1184 *Capsella bursa-pastoris*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1275 *Cayratia japonica*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1684 *Cordyline stricta*, T1924 *Cyathula officinalis*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2412 *Equisetum*

sylvaticum, T2420 *Ericerus pela*, T2590 *Euphorbia hirta*, T2591 *Euphorbia humifusa*, T2691 *Farfugium japonicum*, T2830 *Galium aparine*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3340 *Hypericum ascyron*, T3416 *Imperata cylindrica* var. *major*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3662 *Lactuca sativa*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3764 *Lepisorus thunbergianus*, T3769 *Lespedeza bicolor*, T3881 *Lithospermum erythrorhizon*, T4082 *Mallotus japonicus*, T4121 *Marsilea quadrifolia*, T4127 *Matteuccia struthiopteris*, T4248 *Mimosa pudica*, T4370 *Nandina domestica*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T5097 *Polygonum amphibium*, T5228 *Prunus mume*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5295 *Pteris multifida*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia shearerii*, T5541 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*], T5685 *Salvia plebeia*, T5712 *Sanguisorba officinalis*, T5850 *Sedum aizoon*, T5855 *Sedum kamtschaticum*, T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*, T6034 *Sophora japonica*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6116 *Stenoloma chusanum*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6485 *Trachycarpus fortunei*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6615 *Uncaria gambir*, T6745 *Vicia faba*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].

hematuria due to blood heat T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].

hemicrania [= hemilateral headache] T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*].

hemiplegia T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0298 *Alectoria vivens*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0877 *Bauhinia championii*, T1084 *Buthus martensi*, T1191 *Caragana sinica*, T1562 *Clerodendron trichotomum*, T1567 *Clerodendron mandarinorum*, T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1767 *Craibiodendron yunnanese*, T2449 *Erycibe obtusifolia*, T2450 *Erycibe schmidtii*, T2540 *Euonymus fortunei*, T2890 *Gastrodia elata*, T2995 *Gloriosa superba*, T3657 *Lactarius vellereus*, T3675 *Lagopsis supina*, T3680 *Lamium amplexicaule*, T4903 *Pinellia pedatisecta*, T5298 *Pteris vittata*, T5401 *Rabdosia yuennanensis*, T5746 *Sassafras tzumu*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T6166 *Strychnos angustiflora*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6540 *Tripterygium hypoglaucum*.

hemoptysis T0229 *Ageratum conyzoides*, T0248 *Agrimonia pilosa*, T0249 *Agrimonia pilosa* var. *japonica*, T0379 *Alternanthera philoxeroides*, T0678 *Artemisia japonica*, T0753 *Asparagus setaceus* [Syn. *Asparagus*

plumosus], T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0859 *Balanophora involucrata*, T0923 *Bergenia crassifolia*, T0924 *Bergenia purpurascens*, T0941 *Bidens tripartita*, T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*], T0955 *Bletilla striata*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0964 *Boenninghausenia albiflora*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1120 *Callicarpa macrophylla*, T1145 *Camellia japonica*, T1184 *Capsella bursa-pastoris*, T1251 *Cassytha filiformis*, T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1969 *Cynoglossum officinale*, T2191 *Dioscorea bulbifera*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2281 *Dryopteris crassirhizoma*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2407 *Equisetum arvense*, T2412 *Equisetum sylvaticum*, T2540 *Euonymus fortunei*, T2591 *Euphorbia humifusa*, T2659 *Fagopyrum esculentum*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3242 *Hibiscus rosa-sinensis*, T3244 *Hibiscus syriacus*, T3279 *Homo sapiens*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3361 *Hypericum perforatum*, T3363 *Hypericum sampsonii*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3736 *Lemmaphyllum microphyllum*, T3829 *Ligustrum robustum*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3926 *Loropetalum chinense*, T3983 *Lycoris aurea*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T4549 *Osbeckia chinensis*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T5043 *Podocarpus macrophyllus*, T5045 *Podocarpus macrophyllus* var. *maki*, T5133 *Polytrichum commune*, T5374 *Quercus infectoria*, T5419 *Raphanus sativus*, T5449 *Reineckea carnea*, T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*], T5499 *Rhodiola sacra*, T5552 *Robinia pseudoacacia*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5673 *Salvia glutinosa*, T5685 *Salvia plebeia*, T5712 *Sanguisorba officinalis*, T5840 *Scutellaria indica*, T5850 *Sedum aizoon*, T5855 *Sedum kamtschaticum*, T5862 *Selaginella involvens*, T6092 *Stachys palustris*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6615 *Uncaria gambir*, T6745 *Vicia faba*, T6772 *Viscum angulatum*, T6895 *Zanthoxylum simulans*.

hemorrhagic fever T0379 *Alternanthera philoxeroides*.

hemorrhoids T0158 *Actinidia chinensis*, T0226 *Agave sisalana*, T0293 *Albizia lebbbeck*, T0322 *Allium tuberosum*, T0584 *Arctium lappa*, T0805 *Astragalus sinicus*, T0827 *Aucuba chinensis* ssp. *omeiensis*, T0860 *Balanophora japonica*, T0942 *Biebersteinia heterostemon*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1448 *Cirsium chinense*, T1556 *Clerodendron fragrans*, T1562 *Clerodendron trichotomum*, T1565 *Clerodendron bungei*, T1623 *Collybia albuminosa*, T1687 *Coriandrum sativum*, T1799 *Crinum latifolium*, T1881 *Cucurbita moschata*, T1896 *Cupressus funebris*, T1994 *Daemonorops draco*, T2024 *Daphne genkwa*, T2062 *Delphinium*

bonvalotii, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T2218 *Diospyros kaki*, T2253 *Dracaena cochinchinensis*, T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2525 *Eucheuma muricatum*, T2627 *Euphoria longan* [Syn. *Dimocarpus longan*], T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2718 *Ficus carica*, T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*], T2994 *Gloiopeltis furcata*, T3163 *Helicteres angustifolia*, T3245 *Hibiscus syriacus*, T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancreatium littoralis*], T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3479 *Isodon amethystoides*, T3845 *Linaria vulgaris*, T3932 *Ludwigia octovalvis*, T4020 *Macleaya cordata*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4544 *Oryza sativa*, T4548 *Oryza sativa* var. *glutinosa*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4607 *Panax pseudo-ginseng* var. *japonicus*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4836 *Phyllanthus emblica*, T4884 *Picria felterrae*, T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*, T4917 *Pinus massoniana*, T5107 *Polygonum multiflorum*, T5142 *Poncirus trifoliata*, T5230 *Prunus persica*, T5375 *Quercus mongolica*, T5563 *Rosa cymosa*, T5606 *Rumex acetosa*, T5773 *Saxifraga stolonifera*, T5862 *Selaginella involvens*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T5942 *Sida acuta*, T6025 *Sonchus arvensis*, T6035 *Sophora japonica*, T6076 *Spinacia oleracea*, T6095 *Stachytarpheta jamaicensis*, T6264 *Syzygium buxifolium*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].

hemorrhoids and fistulas T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0500 *Anguilla japonica*, T1210 *Carpesium abrotanoides*, T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T2092 *Delphinus delphis*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3935 *Luffa cylindrica*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4265 *Momordica cochinchinensis*, T5111 *Polygonum perfoliatum*, T5870 *Selaginella uncinata*, T6105 *Stellera chamaejasme*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].

hemorrhoids and fistulas^[5509] T6139 *Sterculia lychnophora*.

hemorrhoids and swollen welling abscess T6615 *Uncaria gambir*.

hepatic disease and anemia (leaf) T3110 *Harungana madagascariensis*.

hepatitis T0011 *Abrus precatorius*, T0137 *Aconitum tanguticum*, T0155 *Actinidia arguta*, T0423 *Ampelopsis brevipedunculata*, T0495 *Angelica sinensis*, T0572 *Aralia elata*, T0598 *Ardisia japonica*, T0646 *Armillariella tabescens*, T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T0707 *Arthraxon hispidus*, T0751 *Asparagus officinalis*, T0881 *Bauhinia variegata*, T0964 *Boenninghausenia albiflora*, T1055 *Bupleurum angustissimum*,

T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1573 *Clinopodium chinense*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1746 *Corydalis taliensis*, T1747 *Corydalis thalictrifolia*, T1967 *Cynoglossum amabile*, T1986 *Cyrtomium fortunei*, T2340 *Elsholtzia bodinieri*, T2601 *Euphorbia milii*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2727 *Ficus simplicissima*, T2756 *Forsythia suspensa*, T2835 *Galium verum*, T2840 *Gallus gallus domesticus*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2941 *Gentianopsis paludosa*, T3092 *Halenia corniculata*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3122 *Hedyotis acutangula*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3332 *Hypocoum erectum*, T3334 *Hypocoum leptocarpum*, T3340 *Hypericum ascyron*, T3342 *Hypericum bellum*, T3360 *Hypericum patulum*, T3457 *Iris dichotoma*, T3461 *Iris japonica*, T3471 *Iris tectorum*, T3475 *Isatis indigotica*, T3476 *Isatis indigotica*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3990 *Lygodium japonicum*, T4028 *Maesa indica*, T4082 *Mallotus japonicus*, T4145 *Meconopsis punicea*, T4248 *Mimosa pudica*, T4804 *Phlojodicarpus sibiricus*, T4842 *Phyllanthus reticulatus*, T5071 *Polygala arillata*, T5100 *Polygonum chinense*, T5101 *Polygonum cuspidatum*, T5156 *Populus nigra* var. *thevestina*, T5161 *Populus tomentosa*, T5185 *Potentilla multifida*, T5207 *Prismatomeris tetrandra*, T5587 *Rubus alceaefolius*, T5614 *Rumex patientia*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5690 *Salvia roborowskii*, T5838 *Scutellaria galericulata*, T5844 *Scutellaria scordifolia*, T5860 *Selaginella davidii*, T5892 *Senecio nemorensis*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6116 *Stenoloma chusanum*, T6214 *Swertia chinensis*, T6227 *Swertia mussotii*, T6264 *Syzygium buxifolium*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6301 *Taraxacum mongolicum*, T6656 *Ustilago maydis*.

hepatitis a T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T5543 *Rhynchosyche vestitum*.

hepatitis b T5543 *Rhynchosyche vestitum*.

hepatitis with rib-side pain T5687 *Salvia prionitis*.

herpes zoster T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*].

hiccup T2217 *Diospyros kaki*, T3758 *Lepidium sativum*, T3876 *Litchi chinensis*, T6150 *Streptopelia orientalis*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].

hoarseness T4665 *Passiflora edulis*.

- hordeolum** T1633 *Commelina communis*.
- hydatid moles** T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- hydrothorax** T2023 *Daphne genkwa*.
- hyperchlorhydria** T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T3880 *Lithospermum arvense*, T4306 *Mosla grosseserrata*, T5419 *Raphanus sativus*.
- hypercholesterolemia** T0544 *Apium graveolens*, T2964 *Ginkgo biloba*.
- hyperlipemia** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0311 *Allium cepa*, T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T0751 *Asparagus officinalis*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2733 *Firmiana simplex*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3085 *Gynostemma pentaphyllum*, T3742 *Lentinus edodes*, T5101 *Polygonum cuspidatum*, T5107 *Polygonum multiflorum*, T6528 *Trigonella foenum-graecum*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- hyperplasia of mammary glands** T0751 *Asparagus officinalis*, T5214 *Prunella vulgaris*.
- hypertension** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*, T0428 *Ampelopsis megalophylla*, T0539 *Apis cerana*, T0541 *Apis cerana*, T0544 *Apium graveolens*, T0553 *Apocynum venetum*, T0598 *Ardisia japonica*, T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0631 *Aristolochia kaempferi*, T0644 *Armillaria mellea*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1084 *Buthus martensi*, T1150 *Camellia sinensis* [Syn. *Thea sinensis*], T1184 *Capsella bursa-pastoris*, T1190 *Caragana jubata*, T1191 *Caragana sinica*, T1241 *Cassia occidentalis*, T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], T1296 *Celosia argentea*, T1311 *Centella asiatica*, T1385 *Chorda filum*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1393 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1417 *Cimicifuga acerina*, T1562 *Clerodendron trichotomum*, T1563 *Clerodendron trichotomum*, T1565 *Clerodendrum bungei*, T1586 *Cocculus laurifolius*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1776 *Crataegus pinnatifida*, T1777 *Crataegus pinnatifida*, T1927 *Cycas revoluta*, T2115 *Dermatocarpon minutum*, T2219 *Diospyros kaki*, T2442 *Ervatamia divaricata*, T2444 *Ervatamia heyneana*, T2445 *Ervatamia officinalis*, T2530 *Eucommia ulmoides*, T2531 *Eucommia ulmoides*, T2565 *Eupatorium lindleyanum*, T2569 *Eupatorium rebaudianum*, T2659 *Fagopyrum esculentum*, T2729 *Filipendula ulmaria*, T2731 *Firmiana simplex*, T2732 *Firmiana simplex*, T2732 *Firmiana simplex*, T2890 *Gastrodia elata*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3549 *Ixora chinensis*, T3742 *Lentinus edodes*, T3878 *Lithocarpus polystachyus*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3932 *Ludwigia octovalvis*, T4001 *Lysimachia davurica*, T4028 *Maesa indica*, T4039 *Magnolia grandiflora*, T4145 *Meconopsis punicea*, T4195 *Menyanthes trifoliata*, T4290 *Morus alba*, T4401 *Nelumbo nucifera*, T4438 *Nostoc flagelliforme*, T4516 *Oplopanax elatus*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4837 *Phyllanthus emblica*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T4976 *Piptanthus nepalensis*, T5214 *Prunella vulgaris*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5365 *Pyrus pashia*, T5423 *Rauwolfia verticillata*, T5424 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5442 *Rauwolfia serpentina*, T5516 *Rhododendron molle*, T5657 *Salsola collina*, T5723 *Sapium sebiferum*, T5817 *Scolopendra subspinipes mutilans*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5969 *Sium latifolium*, T6136 *Stephania tetrandra*, T6478 *Torreya jackii*, T6531 *Trillium camtschaticum*, T6533 *Trillium kamtschaticum*, T6535 *Trillium tschonoskii*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6772 *Viscum angulatum*, T6775 *Viscum coloratum*, T6777 *Viscum multinerve*, T6803 *Volvariella volvacea*, T6901 *Zea mays*.
- hypertension (bark)** T3110 *Harungana madagascariensis*.
- hypertension due to ascendant liver yang** T5428 *Rauwolfia yunnanensis*.
- hypertension due to liver heat** T2060 *Delonix regia*.
- hypertonicity** T6183 *Strychnos nitida*.
- hypertonicity and numbness** T2194 *Dioscorea colletii*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2438 *Erodium stephanianum*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- hypertonicity and pain** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*].
- hypertonicity in limb joints** T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*].
- hypertonicity of limbs** T0106 *Aconitum kirinense*, T0123 *Aconitum polyschistum*, T0138 *Aconitum umbrosum*, T0470 *Anemone raddeana*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T5972 *Skimmia reevesiana*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- hypertonicity of sinews and bones** T0045 *Acanthopanax trifoliatus*, T0634 *Aristolochia mollissima*, T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*].
- hypertonicity of sinews and vessels** T1001 *Brachystemma calycinum*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T1545

- Clematis chinensis*, T2211 *Dioscorea tenuipes*, T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T3869 *Liquor*, T4950 *Piper kadsura* [Syn. *Piper futokadsura*], T5021 *Pleurospermum rivulorum*, T6422 *Thelephora vialis*, T6484 *Trachelospermum jasminoides*, T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*], T6742 *Vicia amoena*.
- hypertrophic spinitis** T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.
- hypocortico steroidism [= Addison's disease]** T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*.
- hypotension** T4682 *Pedicularis muscicola*.
- hypovitaminosis** T6055 *Sorbus tianschanica*.
- hypovitaminosis c** T0155 *Actinidia arguta*.
- hysteria** T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*.
- icterohepatitis** T0010 *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], T0374 *Alstonia scholaris*, T0379 *Alternanthera philoxeroides*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T0678 *Artemisia japonica*, T1655 *Conyza blinii*, T1758 *Cotinus coggygria*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2327 *Elaeagnus angustifolia*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T6260 *Syringa oblata*, T6277 *Tadehagi triquetrum*.
- ileitis** T3106 *Harpagophytum procumbens*.
- ileus** T2999 *Glycine max*, T3164 *Helicteres isora*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- ileus due to roundworm** T0560 *Arachis hypogaea*.
- impediment** T4655 *Paris tetraphylla*, T4917 *Pinus massoniana*.
- impediment pain** T1008 *Brassica juncea*, T1046 *Buddleja davidii*, T1767 *Craibiodendron yunnanese*, T2038 *Datura innoxia*, T2042 *Datura metel*.
- impediment pain in joints** T1924 *Cyathula officinalis*, T3479 *Isodon amethystoides*, T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*], T5101 *Polygonum cuspidatum*, T5578 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumannina*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*.
- impediment pain in lumbus and knees** T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T2208 *Dioscorea septemloba*.
- impediment pain in sinew and bone** T5870 *Selaginella uncinata*.
- impediment pain into network vessels** T1001 *Brachystemma calycinum*.
- impediment pain numbness** T3852 *Lindera megaphylla*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- impotence** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T0298 *Alectoria vivens*, T0500 *Anguilla japonica*, T0990 *Bos taurus domesticus*; *Bubalus bubalis*, T1035 *Broussonetia papyrifera*, T1170 *Canis familiaris*, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1582 *Cnidium monnieri*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T2805 *Fugu ocellatus*, T2955 *Geum japonicum*, T3077 *Gymnadenia conopsea*, T3279 *Homo sapiens*, T3568 *Juglans regia*, T4206 *Metaplexis japonica*, T4207 *Metaplexis japonica*, T4516 *Oplopanax elatus*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T4982 *Pistacia vera*, T5317 *Pueraria peduncularis*, T5697 *Salvia trijuga*, T5753 *Saussurea gnaphaloides*, T5755 *Saussurea involucrata*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T5848 *Securinega suffruticosa*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6257 *Syngnathus acus*.
- impotence and emission** T0977 *Bombyx mori*, T1337 *Cervus nippon*; *Cervus elaphus*, T1683 *Cordyceps sinensis*, T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T1900 *Curculigo capitulata* [Syn. *Leucogium capitulata*], T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2753 *Formica fusca*, T4283 *Morinda officinalis*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*, T5270 *Psoralea corylifolia*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- impotence seminal cool** T1901 *Curculigo orchioides*.
- impotence with emission** T4828 *Photinia serrulata*.
- impotence with premature ejaculation** T5593 *Rubus idaeus*.
- improving cognitive function in elderly dementia patients** T2961 *Ginkgo biloba*.
- inability of legs and knees** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T1963 *Cynanchum wallichii*.
- inappetence** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0463 *Anemone altaica*, T0659 *Artemisia absinthium*, T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T1278 *Cedrela sinensis*, T1415 *Cichorium intybus*, T1478 *Citrus grandis*, T1490 *Citrus limon*, T1494 *Citrus limonia*, T1608 *Coffea arabica*, T1610 *Coffea liberica*, T1660 *Coprinus atramentarius*, T1687 *Coriandrum sativum*, T1751 *Corylus heterophylla*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2717 *Ficus carica*, T2763 *Fragaria ananassa*, T3282 *Hordeum vulgare*, T3962 *Lycopersicon esculentum*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4400 *Nelumbo nucifera*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4607 *Panax pseudo-ginseng* var. *japonicus*, T4957 *Piper nigrum*, T5067 *Polyalthia nemoralis*, T5071 *Polygala arillata*, T5226 *Prunus mume*, T5260 *Pseudostellaria*

- heterophylla*, T5465 *Rhaponticum carthamoides*, T6285 *Tamarindus indica*, T6902 *Zea mays*.
- inappetence due to glomus in stomach duct** T2554 *Eupatorium cannabinum*.
- incarcerated hernia of intestine** T2744 *Foeniculum vulgare*.
- incessant asthma and cough** T3329 *Hyoscyamus niger*.
- incessant bleeding** T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*, T6540 *Tripterygium hypoglaucum*.
- incessant chronic diarrhea** T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T4351 *Myristica fragrans*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- incessant cough** T2867 *Garcinia multiflora*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*.
- incessant flooding and spotting** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*].
- incessant intestinal wind bleeding** T5138 *Poncirus trifoliata*.
- incessant nosebleed** T0328 *Alnus japonica*.
- incessant postpartum bleeding** T5183 *Potentilla griffithii* var. *velutina*.
- incessant red and white vaginal discharge** T6551 *Trogopterus xanthipes*; *Pteromys volans*.
- incessant urinary turbidity** T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- incessant vaginal discharge** T6670 *Vaccinium bracteatum*.
- incessant vomiting and diarrhea** T4018 *Machilus thunbergii*, T5363 *Pyrus calleryana*.
- incised wound** T0991 *Bos taurus domesticus*; *Bubalus bubalis*, T2154 *Dicentra spectabilis*, T2280 *Dryopteris chrysocoma*, T3980 *Lycopodium lucidum*, T4917 *Pinus massoniana*, T5554 *Rodgersia aesculifolia*, T5653 *Salix purpurea*.
- incised wound and bleeding** T0661 *Artemisia anomala*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T0977 *Bombyx mori*, T2420 *Ericerus pela*, T3776 *Lethariella zahlbruckneri*, T4207 *Metaplexis japonica*, T5301 *Pterocarpus indicus*.
- indigestion** T0156 *Actinidia arguta*, T0158 *Actinidia chinensis*, T0363 *Alpinia speciosa*, T0500 *Anguilla japonica*, T0647 *Armoracia lapathifolia*, T0881 *Bauhinia variegata*, T1101 *Caesalpinia decapetala*, T1217 *Carum carvi*, T1242 *Cassia occidentalis*, T1468 *Citrus aurantium*, T1506 *Citrus reticulata*, T1521 *Citrus wilsonii*, T1623 *Collybia albuminosa*, T1889 *Cuminum cyminum*, T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], T1978 *Cyperus rotundus*, T2050 *Daucus carota* var. *sativa*, T2115 *Dermatocarpon minutum*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2189 *Dioscorea althaeoides*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2326 *Elaeagnus angustifolia*, T2340 *Elsholtzia bodinieri*, T2421 *Erigeron annuus*, T2563 *Eupatorium japonicum*, T2659 *Fagopyrum esculentum*, T2717 *Ficus carica*, T2720 *Ficus hispida*, T2763 *Fragaria ananassa*, T2838 *Gallus gallus domesticus*, T3120 *Hedychium spicatum*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3289 *Humulus lupulus*, T3318 *Hylotelephium mingjinianum*, T3480 *Isodon angustifolia*, T3628 *Kerria japonica*, T3742 *Lentinus edodes*, T3779 *Leucas aspera*, T3926 *Loropetalum chinense*, T4147 *Medicago falcata*, T4194 *Menyanthes trifoliata*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4284 *Morinda parvifolia*, T4436 *Nitraria tangutorum*, T4644 *Parasilurus asotus*, T4802 *Phleum pratense*, T4887 *Picrorhiza kurroo*, T4888 *Picrorhiza scrophulariiflora*, T5122 *Polygonum viscosum*, T5141 *Poncirus trifoliata*, T5341 *Pygmaepremna herbacea* [Syn. *Premna herbacea*], T5365 *Pyrus pashia*, T5395 *Rabdosia nervosa*, T5419 *Raphanus sativus*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T6056 *Sorghum vulgare*, T6071 *Sphaeranthus indicus*, T6214 *Swertia chinensis*, T6224 *Swertia kouitchensis*, T6229 *Swertia patens*, T6231 *Swertia pseudochinensis*, T6234 *Swertia punicea*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6339 *Tephrosia purpurea*, T6436 *Thlaspi arvense*, T6488 *Trachyspermum ammi*, T6602 *Umbilicaria hypococeinea*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6656 *Ustilago maydis*, T6789 *Vitex negundo*, T6801 *Vladimiria denticulata*.
- indigestion of overnight food** T1021 *Brassica rapa*, T1876 *Cucumis melo*.
- induce abortion** T2023 *Daphne genkwa*, T6512 *Trichosanthes kirilowii*.
- infant ardent fever** T1264 *Catalpa ovata*, T3764 *Lepisorus thunbergianus*, T4248 *Mimosa pudica*, T4506 *Ophioglossum vulgatum*.
- infant ardent fever convulsion** T0942 *Biebersteinia heterostemon*, T5592 *Rubus hirsutus*.
- infant common cold** T6229 *Swertia patens*.
- infant diarrhea** T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2941 *Gentianopsis paludosa*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*.
- infant fetal toxin** T2730 *Fimbristylis dichotoma*.
- infant fright wind** T0088 *Aconitum coreanum*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1045 *Bubalus bubalis*, T1084 *Buthus martensi*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1332 *Cercidiphyllum japonicum*, T2091 *Delphinium yunnanense*, T2540 *Euonymus fortunei*, T2927 *Gentiana rhodantha*, T4730 *Peristrophe roxburghiana*, T5183 *Potentilla griffithii* var. *velutina*, T5289 *Pteris dactylina*, T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5299 *Pteris wallichiana*, T5626 *Ruta graveolens*, T5863 *Selaginella moellendorffii*, T5939 *Shiraia bambusicola*, T6278 *Tagetes erecta*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6580 *Tylophora floribunda*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6903 *Zephyranthes candida*.
- infant fright wind and night crying** T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- infant mouth sore** T0920 *Berberis wilsonae*, T2733 *Firmiana simplex*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4562 *Oxalis acetosella*.

- infant night crying** T2836 *Gallus gallus domesticus*, T3040 *Gomphrena globosa*, T3578 *Juncus effusus*.
- infant pneumonia** T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*.
- infant retardation of walking** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*.
- infantile cough asthma** T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*].
- infantile night crying** T4838 *Phyllanthus flexuosus*.
- infection due to foot lichen** T4391 *Nauclea officinalis*.
- infection from wounds** T0060 *Achillea alpina* [Syn. *Achillea sibirica*].
- infection of biliary tract** T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*].
- infection of skin** T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T1959 *Cynanchum paniculatum*, T2023 *Daphne genkwa*, T3926 *Loropetalum chinense*, T6008 *Solanum nigrum*.
- infection of upper respiratory tract** T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0897 *Berberis amurensis*, T0912 *Berberis poiretii*, T0920 *Berberis wilsonae*, T1535 *Clausena excavata*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1709 *Corydalis bungeana*, T2357 *Emilia sonchifolia*, T2715 *Fibraurea recisa*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3476 *Isatis indigotica*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5018 *Pleuropterus ciliinervis*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6122 *Stephania dielsiana*, T6135 *Stephania succifera*, T6278 *Tagetes erecta*, T6301 *Taraxacum mongolicum*, T6554 *Trollius macropetalus*, T6574 *Tussilago farfara*, T6766 *Viola tricolor*.
- infection of urinary system** T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T4388 *Nasturtium officinale*, T5018 *Pleuropterus ciliinervis*, T6071 *Sphaeranthus indicus*, T6234 *Swertia punicea*.
- infections** T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T5110 *Polygonum orientale*.
- infective cholecystitis** T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*].
- infective dermatitis** T1959 *Cynanchum paniculatum*.
- infective fever due to external injury** T3092 *Halenia corniculata*.
- infective hepatitis** T1709 *Corydalis bungeana*, T4538 *Oroxylum indicum*, T4843 *Phyllanthus urinaria*, T5651 *Salix babylonica*, T6412 *Thalictrum squarrosum*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6819 *Wikstroemia chamaedaphne*.
- infertility** T0541 *Apis cerana*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T3279 *Homo sapiens*, T3287 *Huechys sanguinea*, T5566 *Rosa henryi*.
- infertility due to uterus cold** T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T0993 *Boschniakia rossica*, T1337 *Cervus nippon*; *Cervus elaphus*, T1582 *Cnidium monnieri*, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T4536 *Orobanchae coerulescens*, T4954 *Piper longum*, T5593 *Rubus idaeus*.
- influenza** T0099 *Aconitum gymnantrum*, T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T0553 *Apocynum venetum*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1393 *Chrysanthemum indicum*, T1535 *Clausena excavata*, T1633 *Commelina communis*, T1709 *Corydalis bungeana*, T1727 *Corydalis mucronifera*, T2721 *Ficus microcarpa*, T3475 *Isatis indigotica*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4220 *Microlepis strigosa* [Syn. *Trichomanes strigosa*], T4223 *Micromelum integerrimum*, T4552 *Osmunda japonica*, T4568 *Oxytropis myriophylla*, T4998 *Plagiogyria euphlebica*, T5592 *Rubus hirsutus*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6226 *Swertia mileensis*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*.
- influenza in early stage** T2756 *Forsythia suspensa*.
- ingrown eyelash** T4471 *Ocimum basilicum*.
- inhibited urination** T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0628 *Aristolochia fangchi*, T0629 *Aristolochia heterophylla*, T0647 *Armoracia lapathifolia*, T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T0708 *Arthomeris mairei* [Syn. *Polypodium mairei*], T0722 *Arundo donax*, T0759 *Aspidistra elatior*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T0853 *Baeckea frutescens*, T1004 *Brasenia schreberi*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1238 *Cassia mimosoides*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T1258 *Casuarina equisetifolia*, T1263 *Catalpa ovata*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1464

- Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1471 *Citrus chachiensis*, T1473 *Citrus cultivars*, T1474 *Citrus decumana*, T1516 *Citrus tankan*, T1518 *Citrus unshiu*, T1538 *Clausena lansium*, T1595 *Codium fragile*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1819 *Crotalaria ferruginea*, T1980 *Cyprinus carpio*, T2125 *Descurainia sophia*, T2282 *Dryopteris filix-mas*, T2341 *Elsholtzia ciliata*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2628 *Euphrasia officinalis*, T2730 *Fimbristylis dichotoma*, T2927 *Gentiana rhodantha*, T3143 *Helianthus annuus*, T3199 *Hemibarbus labeo*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3578 *Juncus effusus*, T3628 *Kerria japonica*, T3662 *Lactuca sativa*, T3675 *Lagopsis supina*, T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3758 *Lepidium sativum*, T3759 *Lepidium virginicum*, T3765 *Lepisorus ussuriensis*, T3885 *Litsea cubeba*, T3921 *Lophatherum gracile*, T3950 *Lychnis fulgens*, T3983 *Lycoris aurea*, T3988 *Lycoris squamigera*, T4194 *Menyanthes trifoliata*, T4225 *Micosorium punctatum*, T4254 *Miscanthus sinensis*, T4275 *Monotropa hypopitys*, T4287 *Morus alba*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4456 *Nymphoides peltatum*, T4616 *Pandanus tectorius*, T4688 *Peganum harmala*, T4851 *Physalis minima*, T5129 *Polyporus umbellatus*, T5223 *Prunus humilis* [Syn. *Cerasus humilis*], T5224 *Prunus japonica* [Syn. *Cerasus japonica*], T5225 *Prunus japonica* var. *nakaii*, T5231 *Prunus persica*, T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*, T5614 *Rumex patientia*, T5626 *Ruta graveolens*, T5953 *Silene firma*, T5966 *Siphonostegia chinensis*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6100 *Stauntonia hexaphylla*, T6136 *Stephania tetrandra*, T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*], T6357 *Tetrapanax papyriferus*, T6598 *Ulva conglobata*, T6676 *Valeriana hardwickii*, T6794 *Vitis amurensis*, T6799 *Vitis vinifera*, T6862 *Zanthoxylum ailanthoides*, T6902 *Zea mays*.
- inhibited urination [= dysuria]** T0388 *Amaranthus lividus*, T0894 *Benincasa hispida*, T1032 *Broussonetia papyrifera*, T1033 *Broussonetia papyrifera*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3990 *Lygodium japonicum*, T4120 *Marsdenia tenacissima*, T4121 *Marsilea quadrifolia*, T4274 *Monostroma nitidum*, T4573 *Pachyrrhizus erosus*, T4644 *Parasilurus asotus*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5103 *Polygonum hydropiper*, T6861 *Zanthoxylum ailanthoides*.
- inhibited urine and stool** T0314 *Allium fistulosum*, T1205 *Carica papaya*, T2608 *Euphorbia pekinensis*, T3286 *Hovenia dulcis*, T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*.
- inhibited voidings of reddish urine** T0635 *Aristolochia moupinensis*, T3920 *Lophatherum gracile*, T4194 *Menyanthes trifoliata*.
- innominate toxin swelling** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T0100 *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0122 *Aconitum pendulum*, T0123 *Aconitum polyschistum*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0567 *Aralia armata*, T0595 *Ardisia crispa*, T0897 *Berberis amurensis*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T1097 *Cacalia ainsliaeflora*, T1731 *Corydalis pallida*, T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T2056 *Debregeasia longifolia*, T2301 *Dysosma majorensis* [Syn. *Podophyllum majorense*; *Dysosma lichuanensis*], T2599 *Euphorbia lunulata*, T2632 *Euryale ferox*, T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3080 *Gymnema sylvestris*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3495 *Isodon irrorata*, T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3827 *Ligustrum japonicum*, T3886 *Litsea euosma*, T3928 *Lotus corniculatus*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T4264 *Momordica cochinchinensis*, T4527 *Orixa japonica*, T4530 *Ormosia hosiei*, T4562 *Oxalis acetosella*, T4577 *Paederia scandens*, T4687 *Peganum harmala*, T4843 *Phyllanthus urinaria*, T4979 *Pistacia chinensis*, T5090 *Polygala wattersii*, T5097 *Polygonum amphibium*, T5120 *Polygonum tinctorium*, T5167 *Porana racemosa*, T5193 *Pratia nummularia*, T5247 *Przewalskia tangutica*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5720 *Sapindus mukorossi*, T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*], T6279 *Tagetes erecta*, T6367 *Teucrium quadrifarium*, T6742 *Vicia amoena*.
- insect bites** T2206 *Dioscorea parviflora*, T2213 *Dioscorea zingiberensis*, T3003 *Glycine max*, T4384 *Narcissus tazetta* var. *chinensis*, T5120 *Polygonum tinctorium*, T5857 *Sedum sarmentosum*.
- insect bites with itching** T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*].
- insomnia** T0292 *Albizia julibrissin*, T0295 *Albizia odoratissima*, T0553 *Apocynum venetum*, T0645 *Armillariella mellea*, T1381 *Choerospondias axillaris*, T1393 *Chrysanthemum indicum*, T1826 *Crotalaria mucronata*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T3289 *Humulus lupulus*, T3372 *Hypodematum sinense*, T3775 *Lethariella cladonioides*, T3950 *Lychnis fulgens*, T4001 *Lysimachia davurica*, T4248 *Mimosa pudica*, T4400 *Nelumbo nucifera*, T4663 *Passiflora caerulea*, T4665 *Passiflora edulis*, T5107 *Polygonum multiflorum*, T5108 *Polygonum multiflorum*, T5169 *Poria cocos*, T5423 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5657 *Salsola collina*, T5697 *Salvia trijuga*, T5850 *Sedum aizoon*, T5855 *Sedum kamtschaticum*, T6416 *Thamnia vermicularis*, T6656 *Ustilago maydis*.
- insomnia and emission** T4401 *Nelumbo nucifera*.
- insomnia and frequent dreaming** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T2753 *Formica fusca*, T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*], T4288 *Morus alba*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T5071 *Polygala arillata*, T6056 *Sorghum vulgare*.
- insomnia and vexation** T1813 *Crotalaria albida*, T2840 *Gallus gallus domesticus*, T3578 *Juncus effusus*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.

- insomnia and vexation due to effulgent fire** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].
- intercostal neuralgia** T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*].
- internal bleeding** T2220 *Diospyros kaki*, T6746 *Vicia faba*.
- internal damage due to knocks and falls** T5646 *Sagina japonica* [Syn. *Spergula japonica*].
- internal damage stasis pain** T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*.
- internal heat and abdominal pain** T0565 *Arachniodes simplicior*.
- internal or external obstruction and screen** T6732 *Vespertilio superans*.
- intervallic fever** T1101 *Caesalpinia decapetala*.
- intestinal dry and constipation** T0300 *Aleurites moluccana*, T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T0540 *Apis cerana*, T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*], T0993 *Boschniakia rossica*, T1173 *Cannabis sativa*, T1384 *Chondrus ocelladus*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T3568 *Juglans regia*, T3860 *Linum usitatissimum*, T3873 *Liriope platyphylla*, T3874 *Liriope spicata*, T3875 *Liriope spicata* var. *prolifera*, T4288 *Morus alba*, T4487 *Olea europaea*, T4507 *Ophiopogon japonicus*, T4536 *Orobanchae coerulescens*, T4715 *Perilla frutescens*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*, T5107 *Polygonum multiflorum*, T5216 *Prunus armeniaca*, T5219 *Prunus armeniaca* var. *ansu*, T5229 *Prunus persica*, T5233 *Prunus persica*, T5238 *Prunus salicina*, T5454 *Rhamnus cathartica*, T5657 *Salsola collina*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T5927 *Sesamum indicum* [Syn. *Sesamum orientale*], T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6511 *Trichosanthes kirilowii*.
- intestinal heat and constipation** T2717 *Ficus carica*.
- intestinal heat bleeding** T3155 *Helianthus tuberosus*.
- intestinal heat bleeding from hemorrhoids** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*.
- intestinal infection** T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*.
- intestinal pain due to qi disorder** T0364 *Alsophila spinulosa*.
- intestinal parasitic disease** T0099 *Aconitum gymnantrum*, T0500 *Anguilla japonica*, T0511 *Annona reticulata*, T0513 *Annona squamosa*, T0952 *Blechnum orientale*, T2282 *Dryopteris filix-mas*, T2410 *Equisetum pratense*, T4552 *Osmunda japonica*, T5113 *Polygonum persicaria*, T6826 *Wisteria sinensis*.
- intestinal welling abscess** T0157 *Actinidia callosa* var. *henryi*, T0267 *Ajuga nipponensis*, T0318 *Allium sativum*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0895 *Benincasa hispida*, T0938 *Bidens bipinnata*, T0994 *Boswellia carterii*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1638 *Commiphora myrrha* [Syn. *Commiphora molmol*], T2830 *Galium aparine*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3356 *Hypericum japonicum*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3466 *Iris potaninii*, T3547 *Ixeris chinensis*, T3659 *Lactuca indica*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4577 *Paederia scandens*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5838 *Scutellaria galericulata*, T5840 *Scutellaria indica*, T6767 *Viola yedoensis*.
- intestinal welling abscess and abdominal pain** T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5741 *Sargentodoxa cuneata*.
- intestinal wind** T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0500 *Anguilla japonica*, T1441 *Cinnamomum japonicum*, T4505 *Ophiocephalus argus*.
- intestinal wind bleeding** T0255 *Ailanthus altissima*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1112 *Calendula arvensis*, T1282 *Cedrus deodara*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T3244 *Hibiscus syriacus*, T3245 *Hibiscus syriacus*, T3361 *Hypericum perforatum*, T3863 *Liparis nervosa*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*, T3935 *Luffa cylindrica*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6006 *Solanum melongena*, T6007 *Solanum melongena*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6508 *Trichosanthes cucumeroides*, T6601 *Umblicaria esculenta* [Syn. *Gyrophora esculenta*], T6830 *Woodfordia fruticosa*.
- intestinal wind bleeding (flower)** T1113 *Calendula officinalis*.
- intestinal wind blood dysentery** T4550 *Osmanthus fragrans*.
- intestinal worm accumulation** T1101 *Caesalpinia decapetala*.
- intestine gripping sand** T2658 *Fagopyrum esculentum*.
- intractable headache with pulling sensation** T5817 *Scolopendra subspinipes mutilans*.
- intractable impediment** T2597 *Euphorbia lathyris*.
- intractable lichen** T0736 *Asclepias curassavica*, T1084 *Buthus martensi*, T1374 *Chloranthus spicatus*, T1719 *Corydalis incisa*, T2505 *Eucalyptus citriodora*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2857 *Garcinia hanburyi*, T2866 *Garcinia morella*, T3567 *Juglans regia*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4020 *Macleaya cordata*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4338 *Mylabris phalerata*, *Mylabris cichorii*, T5010 *Platycarya strobilacea*, T5455 *Rhamnus crenata*, T5516 *Rhododendron molle*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T5976 *Smilax china* [Syn. *Smilax japonica*], T6028 *Sophora alopecuroides*, T6029 *Sophora alopecuroides*, T6542 *Tripterygium wilfordii*.
- invisible worm sores** T5221 *Prunus davidiana*, T5235 *Prunus persica*.
- iron or wood intake** T1836 *Crotalaria tetragona*.
- itching in genital region** T6764 Vinegar.

- itching sore of skin** T1316 *Cephalanthus occidentalis*.
- itch-pain in sore and papules** T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*].
- itchy body** T1161 *Campsis grandiflora*, T1175 *Cannabis sativa*, T6497 *Tribulus terrestris*.
- itchy eye** T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*].
- itchy of skin** T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T3342 *Hypericum bellum*.
- itchy papules** T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1210 *Carpesium abrotanoides*, T1556 *Clerodendron fragrans*, T5339 *Pycnoporus sanguineus*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*].
- itchy skin** T0664 *Artemisia argyi*, T0672 *Artemisia capillaris*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T0706 *Artemisia vulgaris*, T0853 *Baeckea frutescens*, T0963 *Boehmeria siamensis*, T0975 *Bombyx mori*, T1146 *Camellia oleifera*, T1147 *Camellia oleifera*, T1261 *Catalpa ovata*, T1264 *Catalpa ovata*, T1372 *Chloranthus serratus*, T1437 *Cinnamomum camphora*, T1446 *Cipadessa baccifera*, T1721 *Corydalis linearoides*, T1730 *Corydalis ophiocarpa*, T1869 *Cryptotaenia japonica*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2348 *Embelia ribes*, T2585 *Euphorbia esula*, T2590 *Euphorbia hirta*, T2805 *Fugu ocellatus*, T2988 *Glochidion eriocarpum*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3471 *Iris tectorum*, T3569 *Juglans regia*, T3646 *Kyllinga brevifolia*, T3675 *Lagopsis supina*, T3851 *Lindera glauca*, T3860 *Linum usitatissimum*, T3990 *Lygodium japonicum*, T4388 *Nasturtium officinale*, T4526 *Origanum vulgare*, T4572 *Pachyrhizus erosus*, T4687 *Peganum harmala*, T4917 *Pinus massoniana*, T5104 *Polygonum hydropiper*, T5178 *Potamogeton perfoliatus*, T5395 *Rabdosia nervosa*, T5640 *Sabina vulgaris*, T5840 *Scutellaria indica*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6541 *Tripterygium regelii*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- jaundice** T0045 *Acanthopanax trifoliatum*, T0048 *Acanthus ilicifolius*, T0156 *Actinidia arguta*, T0175 *Adiantum pedatum*, T0264 *Ajuga forrestii*, T0379 *Alternanthera philoxeroides*, T0594 *Ardisia crenata*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0601 *Ardisia pusilla*, T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0610 *Argemone mexicana*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0672 *Artemisia capillaris*, T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], T0696 *Artemisia sieversiana*, T0721 *Arundina chinensis*, T0859 *Balanophora involucreta*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0902 *Berberis diaphana*, T0912 *Berberis poiretii*, T0920 *Berberis wilsonae*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0938 *Bidens bipinnata*, T0941 *Bidens tripartita*, T0947 *Bixa orellana*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T0989 *Bos taurus domesticus*; *Bubalus bubalis*, T1003 *Brandisia hancei*, T1004 *Brasenia schreberi*, T1031 *Broussonetia kazinoki*, T1044 *Bryum argenteum*, T1172 *Canna edulis*, T1194 *Carassius auratus*, T1197 *Cardiospermum halicacabum*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1238 *Cassia mimosoides*, T1275 *Cayratia japonica*, T1357 *Chelidonium majus*, T1402 *Chrysosplenium alternifolium*, T1406 *Chrysosplenium nudicaule*, T1526 *Cladonia rangiferina*, T1554 *Clerodendron cyrtophyllum*, T1705 *Corydalis adunca*, T1733 *Corydalis racemosa*, T1759 *Cotinus coggygia* var. *cinerea*, T1784 *Cratoxylum cochinchinense*, T1785 *Cratoxylum prunifolium*, T1813 *Crotalaria albida*, T1884 *Cudrania cochinchinensis*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T1907 *Curcuma wengujin*, T1966 *Cynara scolymus*, T1980 *Cyprinus carpio*, T2020 *Damnacanthus indicus*, T2048 *Daucus carota*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2257 *Dracocephalum moldavicum*, T2258 *Dracocephalum rupestre*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2290 *Duchesnea indica*, T2334 *Elephantopus scaber*, T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2649 *Evolvulus alsinoides*, T2715 *Fibraurea recisa*, T2738 *Flemingia strobilifera*, T2839 *Gallus gallus domesticus*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T2884 *Gardenia jasminoides* var. *grandiflora*, T2927 *Gentiana rhodantha*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3192 *Hemerocallis citrina*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3311 *Hydrocotyle sibthorpioides*, T3361 *Hypericum perforatum*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3398 *Ilex rotunda*, T3416 *Imperata cylindrica* var. *major*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3476 *Isatis indigotica*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3645 *Kummerowia striata*, T3646 *Kyllinga brevifolia*, T3668 *Lagenaria siceraria* var. *depressa*, T3680 *Lamium amplexicaule*, T3845 *Linaria vulgaris*, T3881 *Lithospermum erythrorhizon*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T3981 *Lycopus lucidus*, T4000 *Lysimachia congestiflora*, T4055 *Mahonia bealei*, T4060 *Mahonia confusa*, T4062 *Mahonia fortunei*, T4064 *Mahonia gracilipes*, T4066 *Mahonia japonica*, T4121 *Marsilea quadrifolia*, T4147 *Medicago falcata*, T4148 *Medicago sativa*, T4149 *Medicago sativa*, T4183 *Menispermum dauricum*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4482 *Oenanthe javanica*, T4526 *Origanum vulgare*, T4544 *Oryza sativa*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4656 *Parmelia saxatilis*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4835 *Phyllanthus emblica*, T4840 *Phyllanthus niruri*, T4845 *Physalis alkekengi*, T4846 *Physalis alkekengi* var. *franchetii*, T4847 *Physalis alkekengi* var. *franchetii*, T4851 *Physalis minima*, T5121 *Polygonum tinctorium*, T5176 *Potamogeton natans*, T5230 *Prunus persica*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*], T5295 *Pteris multifida*, T5401 *Rabdosia yuennanensis*, T5407 *Rana nigromaculata*; *Rana plancyi*, T5413 *Ranunculus cantoniensis*, T5414 *Ranunculus japonicus*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5576 *Rostellularia procumbens*

- [Syn. *Justicia procumbens*], T5650 *Salix babylonica*, T5750 *Saururus chinensis*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5859 *Selaginella braunii*, T5870 *Selaginella uncinata*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5966 *Siphonostegia chinensis*, T6005 *Solanum lyratum*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6028 *Sophora alopecuroides*, T6131 *Stephania longa*, T6206 *Sus scrofa domestica*, T6250 *Symplocos caudata*, T6357 *Tetrapanax papyriferus*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6378 *Thalictrum delavayi*, T6385 *Thalictrum flavum*, T6386 *Thalictrum foetidum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*, T6403 *Thalictrum petaloideum*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], T6431 *Thesium chinense*, T6507 *Trichosanthes cucumeroides*, T6508 *Trichosanthes cucumeroides*, T6537 *Tripterospermum japonicum*, T6538 *Tripterospermum taiwanense*, T6541 *Tripterygium regelii*, T6749 *Vicia hirsuta*, T6750 *Vicia sativa*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6764 *Vinegar*, T6767 *Viola yedoensis*, T6788 *Vitex negundo*, T6901 *Zea mays*.
- jaundice** [= **icterus**, **ICT**] T4072 *Mahonia shenii*, T4827 *Photinia Parvifolia*, T6219 *Swertia erythrosticta*, T6228 *Swertia nervosa*.
- jaundice edema** T3000 *Glycine max*.
- jaundice hepatitis** T5867 *Selaginella sinensis*.
- jaundice with reddish urine** T2134 *Desmodium styracifolium*.
- joint running impediment pain** T2536 *Euonymus alatus*.
- joint running swelling pain** T5517 *Rhododendron molle*.
- joint running wind** T6439 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*].
- joints wind** T4912 *Pinus koraiensis*.
- keratitis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonrifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T4320 *Murraya kwangsiensis*.
- kersan disease** T4902 *Pimpinella thelungiana*.
- kersan disease with hypertonicity and pain** T3480 *Isodon angustifolia*.
- kidney disease** T6311 *Taxus cuspidata*.
- kidney qi insecurity** T5270 *Psoralea corylifolia*.
- kidney vacuity** T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T2540 *Euonymus fortunei*, T3077 *Gymnadenia conopsea*, T3770 *Lespedeza cuneata*.
- kidney vacuity and edema** T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*.
- kidney vacuity and emission** T2188 *Dioscorea alata*, T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2195 *Dioscorea deltoidea*, T2202 *Dioscorea japonica*, T5067 *Polyalthia nemoralis*, T5236 *Prunus pseudocerasus*.
- kidney vacuity asthma** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T6257 *Syngnathus acus*.
- kidney vacuity cold** T6528 *Trigonella foenum-graecum*.
- kidney vacuity cough asthma T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*].
- kidney vacuity dizziness** T2956 *Geum japonicum*.
- kidney vacuity dizziness and tinnitus** T2753 *Formica fusca*.
- kidney vacuity hasty asthma** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- kidney vacuity impotence** T0322 *Allium tuberosum*, T0323 *Allium tuberosum*, T0993 *Boschniakia rossica*, T1972 *Cynomorium songaricum*, T4536 *Orobanchae coerulea*, T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4696 *Penaeus orientalis*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- kidney vacuity lumbago** T0364 *Alsophila spinulosa*, T1958 *Cynanchum otophyllum*, T1963 *Cynanchum wallichii*, T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T2273 *Drynaria fortunei*, T2326 *Elaeagnus angustifolia*, T2530 *Eucommia ulmoides*, T2744 *Foeniculum vulgare*, T3000 *Glycine max*, T3409 *Illicium verum*, T4286 *Morinda umbellata*, T4642 *Parameria laevigata*, T5252 *Pseudodrynaria coronans*, T5697 *Salvia trijuga*, T6527 *Trigonella caerulea*, T6727 *Veronica persica*, T6750 *Vicia sativa*, T6754 *Vigna unguiculata*.
- kidney vacuity lumbar cold** T4982 *Pistacia vera*.
- kidney vacuity lumbar pain** T4828 *Photinia serrulata*, T5501 *Rhodiola yunnanensis*.
- kidney vacuity lumbar pain and back rigidity** T1411 *Cibotium barometz* [Syn. *Polypodium barometz*].
- kidney yang vacuity** T5270 *Psoralea corylifolia*.
- kindey vacuity toothache** T2053 *Davallia mariesii*.
- knee joint pain** T5308 *Pterocarya stenoptera*.
- knee pain and legs weakness** T6831 *Woodwardia orientalis*.
- knife wound** T1866 *Cryptolepis sinensis*, T1896 *Cupressus funebris*, T1927 *Cycas revoluta*, T1967 *Cynoglossum amabile*, T2301 *Dyosma majorensis* [Syn. *Podophyllum majorense*; *Dyosma lichuanensis*], T4031 *Maesa perlarius*, T4109 *Marchantia polymorpha*, T5391 *Rabdosia eriocalyx*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].
- knocks and falls** T0015 *Abutilon indicum*, T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0073 *Achyranthes bidentata*, T0079 *Aconitum brachypodium*, T0094 *Aconitum finetianum*, T0096 *Aconitum forrestii* [Syn. *Aconitum likiangense*], T0098 *Aconitum geniculatum*, T0100 *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0107 *Aconitum kongboense*, T0108 *Aconitum kusnezoffii*, T0117 *Aconitum nagarum* var. *lasiandrum*, T0122 *Aconitum pendulum*, T0123 *Aconitum polyschistum*, T0130 *Aconitum sinomontanum*, T0135 *Aconitum*

sunghanense, T0138 *Aconitum umbrosum*, T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0156 *Actinidia arguta*, T0161 *Actinidia eriantha*, T0229 *Ageratum conyzoides*, T0240 *Aglaiia odorata*, T0263 *Ajuga decumbens*, T0264 *Ajuga forrestii*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T0292 *Albizzia julibrissin*, T0322 *Allium tuberosum*, T0324 *Allium victorialis*, T0364 *Alsophila spinulosa*, T0378 *Alstonia yunnanensis*, T0383 *Alyxia sinensis*, T0424 *Ampelopsis brevipedunculata* var. *hancei*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0428 *Ampelopsis megalophylla*, T0467 *Anemone flaccida*, T0468 *Anemone hupehensis*, T0471 *Anemone rivularis*, T0491 *Angelica polymorpha*, T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T0535 *Antidesma buniis*, T0537 *Antirrhinum majus*, T0561 *Arachis hypogaea*, T0567 *Aralia armata*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0594 *Ardisia crenata*, T0595 *Ardisia crispa*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0601 *Ardisia pusilla*, T0602 *Ardisia quinquegona*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0642 *Aristolochia tubiflora*, T0661 *Artemisia anomala*, T0680 *Artemisia lactiflora*, T0721 *Arundina chinensis*, T0726 *Asarum forbesii*, T0729 *Asarum maximum*, T0730 *Asarum sagittarioides*, T0759 *Aspidistra elatior*, T0776 *Asplenium prolongatum*, T0827 *Aucuba chinensis* ssp. *omeiensis*, T0859 *Balanophora involucrata*, T0877 *Bauhinia championii*, T0881 *Bauhinia variegata*, T0886 *Beaumontia grandiflora*, T0922 *Berchemia polyphylla* var. *leioclada*, T0926 *Berneuxia thibetica*, T0938 *Bidens bipinnata*, T0952 *Blechnum orientale*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T0964 *Boenninghausenia albiflora*, T0967 *Boenninghausenia sessilicarpa*, T0969 *Boerhavia diffusa*, T0982 *Bos taurus domesticus*, T1001 *Brachystemma calycinum*, T1008 *Brassica juncea*, T1031 *Broussonetia kazinoki*, T1034 *Broussonetia papyrifera*, T1043 *Bryophyllum pinnatum*, T1046 *Buddleja davidii*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1106 *Caesalpinia minax*, T1129 *Calophyllum inophyllum*, T1137 *Caltha palustris*, T1145 *Camellia japonica*, T1174 *Cannabis sativa*, T1188 *Caragana chamlagu*, T1191 *Caragana sinica*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1212 *Carpesium eximium*, T1215 *Carthamus tinctorius*, T1251 *Cassytha filiformis*, T1256 *Castanea mollissima*, T1286 *Celastrus flagellaris*, T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1311 *Centella asiatica*, T1316 *Cephalanthus occidentalis*, T1327 *Ceratostigma minus*, T1328 *Ceratostigma plumbaginoides*, T1329 *Ceratostigma willmottianum*, T1361 *Chenopodium ambrosioides*, T1371 *Chloranthus japonicus*, T1372 *Chloranthus serratus*, T1373 *Chloranthus serratus*, T1374 *Chloranthus spicatus*, T1384 *Chondrus ocelladus*, T1417 *Cimicifuga acerina*, T1423 *Cimicifuga nanchuanensis*, T1436 *Cinnamomum camphora*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1444 *Cinnamomum tamala*, T1450 *Cirsium lineare*, T1452 *Cissampelos pareira*, T1453 *Cissampelos pareira* var. *hirsute*, T1491 *Citrus limon*, T1495 *Citrus limonia*, T1535 *Clausena excavata*, T1555 *Clerodendron fortuneatum*, T1561 *Clerodendron serratum*, T1563 *Clerodendron trichotomum*, T1566 *Clerodendrum inerme*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1570 *Clerodendrum thomsonae*, T1574 *Clintonia alpina*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1624 *Colocasia antiquorum*, T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*], T1638 *Commiphora myrrha* [Syn. *Commiphora molmol*], T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T1657 *Comyza canadensis* [Syn. *Erigeron canadensis*], T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T1684 *Cordyline stricta*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1721 *Corydalis linearoides*, T1730 *Corydalis ophiocarpa*, T1735 *Corydalis repens*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T1767 *Craibiodendron yunnanese*, T1784 *Cratoxylum cochinchinense*, T1796 *Crinum asiaticum* var. *sinicum*, T1810 *Croomia japonica*, T1815 *Crotalaria assamica*, T1823 *Crotalaria juncea*, T1841 *Croton caudatus* var. *tomentosus*, T1866 *Cryptolepis sinensis*, T1871 *Cucubalus baccifer*, T1884 *Cudrania cochinchinensis*, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T1922 *Cyanotis vaga*, T1924 *Cyathula officinalis*, T1927 *Cycas revoluta*, T1928 *Cycas revoluta*, T1939 *Cymbopogon citratus*, T1943 *Cymbopogon goeringii*, T1959 *Cynanchum paniculatum*, T1963 *Cynanchum wallichii*, T1976 *Cyperus iria*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T1986 *Cyrtomium fortunei*, T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*], T1994 *Daemonorops draco*, T2008 *Dalbergia odorifera*, T2013 *Dalbergia sissoo*, T2020 *Damnacanthus indicus*, T2027 *Daphne odora*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2037 *Datura innoxia*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2044 *Datura metel*, T2047 *Datura stramonium*, T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T2053 *Davallia mariesii*, T2091 *Delphinium yunnanense*, T2130 *Desmodium gangeticum*, T2131 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], T2132 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2139 *Dianella ensifolia*, T2189 *Dioscorea althaeoides*, T2194 *Dioscorea colletii*, T2211 *Dioscorea tenuipes*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2253 *Dracaena cochinchinensis*, T2267 *Drosera peltata* var. *lunata*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2348 *Embelia ribes*, T2357 *Emilia sonchifolia*, T2409 *Equisetum palustre*, T2422 *Erigeron breviscapus*, T2442 *Ervatamia divaricata*, T2459 *Erythrina arboreascens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2521 *Eucalyptus tereticornis*, T2545 *Euonymus phellomana*, T2546 *Euonymus sacrosancta*, T2555 *Eupatorium chinense*, T2563

- Eupatorium japonicum*, T2601 *Euphorbia milii*, T2612 *Euphorbia prolifera*, T2691 *Farfugium japonicum*, T2721 *Ficus microcarpa*, T2723 *Ficus pumila*, T2727 *Ficus simplicissima*, T2731 *Firmiana simplex*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T2752 *Fordia cauliflora*, T2830 *Galium aparine*, T2835 *Galium verum*, T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*], T2885 *Gardenia jasminoides* var. *grandiflora*, T2895 *Gaultheria yunnanensis*, T2897 *Gelsemium elegans*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3063 *Grevillea robusta*, T3077 *Gymnadenia conopsea*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3089 *Gypsophila acutifolia*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3118 *Hedychium coronarium*, T3123 *Hedyotis auricularia*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3155 *Helianthus tuberosus*, T3187 *Helleborus thibetanus*, T3201 *Hemiphragma heterophyllum*, T3241 *Hibiscus mutabilis*, T3270 *Holboellia fargesii*, T3276 *Homo sapiens*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3303 *Hydrangea chinensis*, T3311 *Hydrocotyle sibthorpioides*, T3316 *Hylomecon japonica*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3356 *Hypericum japonicum*, T3360 *Hypericum patulum*, T3363 *Hypericum sampsonii*, T3381 *Hyptis suaveolens*, T3395 *Ilex pedunculosa*, T3398 *Ilex rotunda*, T3401 *Illicium henryi*, T3411 *Impatiens balsamina*, T3413 *Impatiens nolintangere*, T3414 *Impatiens siculifer*, T3420 *Incarvillea sinensis*, T3457 *Iris dichotoma*, T3479 *Isodon amethystoides*, T3479 *Isodon amethystoides*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3547 *Ixeris chinensis*, T3549 *Ixora chinensis*, T3555 *Jasminum nudiflorum*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3645 *Kummerowia striata*, T3646 *Kyllinga brevifolia*, T3674 *Laggera alata*, T3675 *Lagopsis supina*, T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3680 *Lamium amplexicaule*, T3681 *Lamium barbatum*, T3725 *Laurus nobilis*, T3746 *Leontice robustum*, T3765 *Lepisorus ussuriensis*, T3770 *Lespedeza cuneata*, T3775 *Lethariella cladonioides*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3809 *Ligularia lapathifolia*, T3813 *Ligularia sibirica*, T3830 *Ligustrum sinense*, T3847 *Lindera angustifolia*, T3851 *Lindera glauca*, T3853 *Lindera obtusiloba*, T3859 *Linum usitatissimum*, T3863 *Liparis nervosa*, T3885 *Litsea cubeba*, T3887 *Litsea glutinosa*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*], T3965 *Lycopodium annotinum*, T3969 *Lycopodium casuarinoides*, T3970 *Lycopodium cernuum*, T3971 *Lycopodium complanatum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T3980 *Lycopus lucidus*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T3991 *Lyonia ovalifolia*, T3992 *Lyonia ovalifolia* var. *elliptica*, T3995 *Lysidice rhodostegia*, T3998 *Lysimachia christinae*, T3999 *Lysimachia clethroides*, T4004 *Lysimachia paridiformis*, T4005 *Lysionotus pauciflorus*, T4036 *Magnolia coco*, T4080 *Mallotus apelta*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4131 *Maytenus confertiflorus*, T4143 *Meconopsis horridula*, T4219 *Microlepia marginata*, T4225 *Microsorium punctatum*, T4234 *Millettia dielsiana*, T4239 *Millettia nitida* var. *hirsutissima*, T4248 *Mimosa pudica*, T4252 *Mirabilis jalapa*, T4260 *Moghania philippinensis*, T4284 *Morinda parvifolia*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4311 *Mucuna sempervirens*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4320 *Murraya kwangsiensis*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4335 *Mussaenda pubescens*, T4349 *Myrica rubra*, T4444 *Nothopanax davidii*, T4450 *Nuphar pumilum*, T4470 *Ocimum basilicum*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4526 *Origanum vulgare*, T4542 *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*], T4562 *Oxalis acetosella*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4568 *Oxytropis myriophylla*, T4577 *Paederia scandens*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4606 *Panax pseudo-ginseng*, T4607 *Panax pseudo-ginseng* var. *japonicum*, T4631 *Papaver nudicaule* var. *chinense*, T4642 *Parameria laevigata*, T4670 *Patrinia heterophylla*, T4673 *Patrinia scabra*, T4704 *Peperomia duclouxii*, T4705 *Peperomia pellucida*, T4710 *Pericampylus glaucus*, T4725 *Periploca calophylla*, T4726 *Periploca forrestii*, T4740 *Petasites japonicus*, T4800 *Phlegmariurus fordii*, T4801 *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], T4810 *Phlomis mongolica*, T4814 *Phlomis umbrosa*, T4821 *Pholidota articulata*, T4837 *Phyllanthus emblica*, T4842 *Phyllanthus reticulatus*, T4884 *Picria felterrae*, T4903 *Pinellia pedatisecta*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T4938 *Piper boehmeriaefolium*, T4948 *Piper hancei*, T4951 *Piper laetispicum*, T4956 *Piper mullesua*, T4965 *Piper sarmentosum*, T5018 *Pleuropterus ciliinervis*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*], T5071 *Polygala arillata*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5087 *Polygala telephioides*, T5090 *Polygala wattersii*, T5100 *Polygonum chinense*, T5101 *Polygonum cuspidatum*, T5104 *Polygonum hydropiper*, T5106 *Polygonum lapathifolium*, T5109 *Polygonum nodosum*, T5114 *Polygonum polystachyum*, T5124 *Polypodium niponicum*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T5184 *Potentilla kleiniana*, T5189 *Pothos chinensis*, T5193 *Pratia nummularia*, T5207 *Prismatomeris tetrandra*, T5233 *Prunus persica*, T5238 *Prunus salicina*, T5250 *Psammosilene tunicoides*, T5269 *Psilotum nudum*, T5279 *Psychotria serpens*, T5297 *Pteris plumbea*, T5298 *Pteris vittata*, T5330 *Punica granatum*, T5339 *Pycnoporus sanguineus*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5401 *Rabdosia yunnanensis*, T5455 *Rhamnus crenata*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5497 *Rhodiola kirilowii*, T5499 *Rhodiola sacra*, T5513 *Rhododendron mariae*, T5516 *Rhododendron molle*, T5517 *Rhododendron molle*, T5518

- Rhododendron mucronatum*, T5537 *Rhus sylvestris*, T5547 *Ricinus communis*, T5555 *Rodgersia pinnata*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5562 *Rosa chinensis*, T5563 *Rosa cymosa*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5578 *Rubia cordifolia*, T5579 *Rubia cordifolia*, T5582 *Rubia oncotricha*, T5583 *Rubia schumanniana*, T5584 *Rubia tinctorum*, T5585 *Rubia wallichiana*, T5586 *Rubia yunnanensis*, T5587 *Rubus alceaefolius*, T5595 *Rubus parvifolius*, T5609 *Rumex hastatus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T5626 *Ruta graveolens*, T5637 *Sabia schumanniana*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5685 *Salvia plebeia*, T5688 *Salvia przewalskii*, T5697 *Salvia trijuga*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5714 *Sansevieria trifasciata*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*], T5746 *Sassafras tzumu*, T5756 *Saussurea japonica*, T5793 *Schisandra henryi*, T5794 *Schisandra lancifolia*, T5795 *Schisandra micrantha*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5813 *Scilla scilloides*, T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*], T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5838 *Scutellaria galericulata*, T5840 *Scutellaria indica*, T5844 *Scutellaria scordifolia*, T5847 *Securidaca inappendiculata*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T5865 *Selaginella pulvinata*, T5866 *Selaginella sanguinolenta*, T5868 *Selaginella stauntoniana*, T5869 *Selaginella tamariscina*, T5883 *Senecio cannabifolius*, T5893 *Senecio nudicaulis*, T5939 *Shiraita bambusicola*, T5942 *Sida acuta*, T5954 *Silene fortunei*, T5978 *Smilax glauco-china*, T5981 *Smilax riparia*, T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*, T6023 *Solidago virgaurea*, T6051 *Sorbaria arborea*, T6052 *Sorbaria sorbifolia*, T6062 *Sparganium stoloniferum*, T6075 *Spilanthes acmella*, T6118 *Stephania brachyandra*, T6121 *Stephania dicentrifera*, T6122 *Stephania dielsiana*, T6133 *Stephania sinica*, T6137 *Stephania viridiflavens*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6155 *Strophanthus divaricatus*, T6166 *Strychnos angustiflora*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6252 *Symplocos chinensis*, T6257 *Syngnathus acus*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6353 *Tetracera asiatica*, T6367 *Teucrium quadrifarium*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6398 *Thalictrum microgynum*, T6444 *Thunbergia grandiflora*, T6468 *Tinospora sinensis*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6484 *Trachelospermum jasminoides*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6531 *Trillium camtschaticum*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6541 *Tripterygium regelii*, T6566 *Tupistra chinensis*, T6580 *Tylophora floribunda*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6689 *Ventilago leiocarpa*, T6691 *Veratrum baillonii*, T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], T6722 *Veronica anagallis-aquatica*, T6728 *Veronica serpyllifolia*, T6737 *Viburnum luzonicum*, T6742 *Vicia amoena*, T6777 *Viscum multinerve*, T6792 *Vitex trifolia*, T6820 *Wikstroemia indica*, T6830 *Woodfordia fruticosa*, T6858 *Zanthoxylum acanthopodium*, T6861 *Zanthoxylum ailanthoides*, T6862 *Zanthoxylum ailanthoides*, T6872 *Zanthoxylum cuspidatum*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*, T6877 *Zanthoxylum dissitum*, T6888 *Zanthoxylum planispinum*, T6889 *Zanthoxylum podocarpum*, T6895 *Zanthoxylum simulans*.
- lack of strength and sloppy stool** T6916 *Ziziphus jujuba*, T6917 *Ziziphus jujuba* var. *inermis*.
- lacquer sore** T0322 *Allium tuberosum*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T1007 *Brassica juncea*, T1182 *Capra hircus*; *Ovis aries*, T1256 *Castanea mollissima*, T1758 *Cotinus coggygia*, T1759 *Cotinus coggygia* var. *cinerea*, T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1777 *Crataegus pinnatifida*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T2723 *Ficus pumila*, T2988 *Glochidion eriocarpum*, T3124 *Hedyotis capitellata*, T5102 *Polygonum cuspidatum*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5646 *Sagina japonica* [Syn. *Spergula japonica*], T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*].
- lai** T1256 *Castanea mollissima*, T1896 *Cupressus funebris*, T3671 *Lagerstroemia indica*, T4042 *Magnolia liliflora*.
- lai lichen** T1097 *Cacalia ainsliaeflora*.
- lai sore** T3413 *Impatiens nolitangere*, T5330 *Punica granatum*.
- laryngeal carcinoma** T0318 *Allium sativum*.
- laryngeal infection in children** T4845 *Physalis alkekengi*.
- laryngitis** T1179 *Capparis masaikai*, T1545 *Clematis chinensis*, T4274 *Monostroma nitidum*, T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], T5309 *Pterocladia tenuis*, T5818 *Scoparia dulcis*, T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6301 *Taraxacum mongolicum*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*.
- lassitude in limbs** T0529 *Anthriscus sylvestris*, T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T2955 *Geum japonicum*.
- lassitude in lumbar and knees** T3992 *Lyonia ovalifolia* var. *elliptica*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*].
- lassitude in lumbus and knees** T2738 *Flemingia strobilifera*, T3955 *Lycium barbarum*, T3958 *Lycium chinense*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*].
- late afternoon tidal fever** T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*.

- leech in nose** T2852 *Garcinia cowa*.
- leg qi [= beriberi]** T3766 *Lepista nuda*, T3937 *Lumbriconeis heteropoda*, T4547 *Oryza sativa* cv., T5158 *Populus simonii*, T5391 *Rabdosia eriocalyx*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*].
- leg qi damp-erosion** T5389 *Rabdosia coetsa*.
- leg qi due to wind-damp** T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*].
- leg qi puffy swelling** T5740 *Sargassum vachellianum*.
- leg qi swelling and pain** T1436 *Cinnamomum camphora*, T3413 *Impatiens nolitangere*.
- leg qi with edema** T5156 *Populus nigra* var. *thevestina*.
- leg qi with swelling toxin** T4714 *Perilla frutescens*.
- leprosy** T0099 *Aconitum gymnanthum*, T1046 *Buddleja davidii*, T1282 *Cedrus deodara*, T1624 *Colocasia antiquorum*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3082 *Gynocardia odorata*, T3289 *Humulus lupulus*, T3569 *Juglans regia*, T3860 *Linum usitatissimum*, T4562 *Oxalis acetosella*, T4917 *Pinus massoniana*, T5368 *Python molurus bivittatus*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6542 *Tripterygium wilfordii*, T6820 *Wikstroemia indica*.
- leprosy (leprosy)** T3560 *Jatropha curcas*.
- leptochroa** T4247 *Millingtonia hortensis*.
- leptospirosis** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T2517 *Eucalyptus robusta*, T2521 *Eucalyptus tereticornis*, T3284 *Houttuynia cordata*.
- leukaemia** T1318 *Cephalotaxus fortunei*.
- leukaemia in early stage and carcinoma of uterine cervix in early stage** T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.
- leukopenic complications of carcinoma** T0897 *Berberis amurensis*, T0912 *Berberis poiratii*, T0920 *Berberis wilsonae*.
- leukoplakia of vulva** T3371 *Hypocrella bambusae*.
- leukorrhea** T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0567 *Aralia armata*, T0632 *Aristolochia manshuriensis*, T1001 *Brachystemma calycinum*, T1353 *Changium smyrnioides*, T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2194 *Dioscorea colletii*, T2197 *Dioscorea futschauensis*, T2210 *Dioscorea spongiosa*, T2632 *Euryale ferox*, T2721 *Ficus microcarpa*, T3221 *Heracleum rapula*, T3363 *Hypericum sampsonii*, T3776 *Lethariella zahlbruckneri*, T4144 *Meconopsis nepaulensis*, T4145 *Meconopsis punicea*, T4821 *Pholidota articulata*, T4917 *Pinus massoniana*, T5289 *Pteris dactylina*, T5328 *Punica granatum*, T5499 *Rhodiola sacra*, T6008 *Solanum nigrum*, T6095 *Stachytarpheta jamaicensis*, T6378 *Thalictrum delavayi*, T6436 *Thlaspi arvense*, T6754 *Vigna unguiculata*, T6831 *Woodwardia orientalis*.
- lichen** T0338 *Aloe ferox*, T0347 *Aloe vera* [Syn. *Aloe barbadensis*], T0348 *Aloe vera* var. *chinensis*, T2124 *Derris trifoliata*, T2479 *Erythrina variegata* var. *orientalis*, T2521 *Eucalyptus tereticornis*, T2717 *Ficus carica*, T3630 *Kleinhovia hospita*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4253 *Mirabilis jalapa*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5143 *Pongamia pinnata*.
- lichen and scab sore** T3327 *Hyoscyamus niger*.
- lichen lai** T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*.
- lichen papules** T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*].
- lichen sore** T0100 *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0318 *Allium sativum*, T0941 *Bidens tripartita*, T0957 *Blumea balsamifera*, T1867 *Cryptomeria fortunei*, T2624 *Euphorbia tirucalli*, T3287 *Huechys sanguinea*, T3413 *Impatiens nolitangere*, T3588 *Juniperus formosana*, T3852 *Lindera megaphylla*, T3991 *Lyonia ovalifolia*, T4208 *Metasequoia glyptostroboides*, T5234 *Prunus persica*.
- limp aching in legs and knees** T1254 *Castanea mollissima*.
- limp aching inability of legs and knees** T2531 *Eucommia ulmoides*.
- limp aching lumbus and knees** T0323 *Allium tuberosum*, T0990 *Bos taurus domesticus*; *Bubalus bubalis*, T1188 *Caragana chamlagu*, T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1900 *Curculigo capitulata* [Syn. *Leucogium capitulata*], T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2805 *Fugu ocellatus*, T3077 *Gymnadenia conopsea*, T3390 *Ilex cornuta*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T4729 *Periploca sepium*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5753 *Saussurea gnaphaloides*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*, T6775 *Viscum coloratum*.
- limp aching lumbus and knees due to kidney vacuity** T1035 *Broussonetia papyrifera*.
- limp aching lumbus and knees due to kidney yin vacuity** T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- limp aching lumbus and knees due to liver kidney yin vacuity** T5107 *Polygonum multiflorum*.
- limp aching numbness in limbs** T1161 *Campsis grandiflora*.
- limp wilting of lower limb** T1972 *Cynomorium songaricum*.
- limp wilting sinew and bone** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T1337 *Cervus nippon*; *Cervus elaphus*, T1901 *Curculigo orchioides*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T6771 *Viscum album*.
- lip sore** T3829 *Ligustrum robustum*.
- liquor damage with thirst** T1472 *Citrus chachiensis*, T1517 *Citrus*

- tankan, T2758 *Fortunella crassifolia*, T2759 *Fortunella japonica*, T2760 *Fortunella margarita*.
- liquor jaundice** T4042 *Magnolia liliiflora*.
- liquor jaundice accumulation** T4050 *Magnolia sieboldii*.
- lithiasis** T5098 *Polygonum aviculare*.
- liver depression and qi pain** T1978 *Cyperus rotundus*, T4036 *Magnolia coco*.
- liver depression and rib-side pain** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*].
- liver enlargement** T3461 *Iris japonica*, T3471 *Iris tectorum*.
- liver fire and red eyes** T0049 *Acer ginnala*, T0334 *Aloe arborescens* var. *natalensis*, T3332 *Hypecoum erectum*, T5199 *Primula malacoides*, T6036 *Sophora japonica*.
- liver fire headache** T5775 *Scabiosa comosa*, T6034 *Sophora japonica*, T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- liver gallbladder effulgent fire** T3233 *Heteropappus altaicus*.
- liver gallbladder pain** T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*].
- liver heat and convulsion** T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*.
- liver heat and dizziness** T3040 *Gomphrena globosa*.
- liver heat and red eyes** T1236 *Cassia laevigata* [Syn. *Cassia floribunda*], T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T2772 *Fraxinus mandshurica*, T5762 *Saussurea nigrescens*.
- liver kidney vacuity** T0793 *Astragalus complanatus*, T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*], T3389 *Ilex cornuta*, T6670 *Vaccinium bracteatum*.
- liver spleen enlargement** T0048 *Acanthus ilicifolius*, T0680 *Artemisia lactiflora*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T3457 *Iris dichotoma*, T4577 *Paederia scandens*, T5029 *Plumbago zeylanica*, T5587 *Rubus alceaefolius*, T5661 *Salvia bowleyana*, T6580 *Tylophora floribunda*.
- liver stomach qi pain** T1928 *Cycas revoluta*, T4537 *Oroxylum indicum*, T5226 *Prunus mume*, T5572 *Rosa rugosa*.
- liver stomach qi stagnation** T0275 *Akebia quinata*.
- liver vacuity dim vision** T1048 *Buddleja officinalis*, T2326 *Elaeagnus angustifolia*.
- liver welling abscess** T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*].
- liver wind headache** T3859 *Linum usitatissimum*.
- liver yang dizziness** T1986 *Cyrtomium fortunei*, T6625 *Uncaria macrophylla*, T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], T6633 *Uncaria sinensis*.
- liver-gallbladder damp-heat** T1705 *Corydalis adunca*.
- liver-kidney yin depletion** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- lobar pneumonia** T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- local anesthesia** T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*.
- lumbago** T0164 *Actinidia polygama*, T0170 *Adhatoda vasica*, T0275 *Akebia quinata*, T0495 *Angelica sinensis*, T0759 *Aspidistra elatior*, T0964 *Boeninghausenia albiflora*, T0967 *Boeninghausenia sessilicarpa*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1487 *Citrus junos*, T1504 *Citrus reticulata*, T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T1959 *Cynanchum paniculatum*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2053 *Davallia mariesii*, T2263 *Dregea volubilis*, T2538 *Euonymus bungeanus*, T2541 *Euonymus grandiflorus*, T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3221 *Heracleum rapula*, T3287 *Huechys sanguinea*, T4131 *Maytenus confertiflorus*, T4182 *Menispermum dauricum*, T4725 *Periploca calophylla*, T4804 *Phlojodicarpus sibiricus*, T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5230 *Prunus persica*, T5298 *Pteris vittata*, T5515 *Rhododendron micranthum*, T5579 *Rubia cordifolia*, T5637 *Sabia schumanniana*, T6431 *Thesium chinense*.
- lumbago and limp aching** T6087 *Spiranthes sinensis*.
- lumbago and limp leg** T0793 *Astragalus complanatus*, T1170 *Canis familiaris*, T3568 *Juglans regia*, T6771 *Viscum album*.
- lumbar and back pain** T2531 *Eucommia ulmoides*, T4118 *Marsdenia oreophila*.
- lumbar and rib-side pain** T3411 *Impatiens balsamina*.
- lumbus kidney cold** T4954 *Piper longum*.
- lump glomus** T0963 *Boehmeria siamensis*, T1215 *Carthamus tinctorius*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T2020 *Damnacanthus indicus*, T2580 *Euphorbia antiquorum*, T2695 *Ferula assafoetida*, T3412 *Impatiens balsamina*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T5233 *Prunus persica*, T6356 *Tetrapanax papyriferus*.
- lung abscess** T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3476 *Isatis indigotica*.
- lung cold cough** T1008 *Brassica juncea*, T1479 *Citrus grandis*.
- lung disease** T1555 *Clerodendron fortunatum*, T3344 *Hypericum chinense*.
- lung disease with blood ejection** T2244 *Doellingeria scaber* [Syn. *Aster scaber*].
- lung disease with cough** T3955 *Lycium barbarum*, T3958 *Lycium chinense*.
- lung heat abundant phlegm dry cough** T5309 *Pterocladia tenuis*.
- lung heat asthma and oppression** T5220 *Prunus davidiana*, T5232 *Prunus persica*.
- lung heat cough** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus*

- abelmoschus*], T0011 *Abrus precatorius*, T0171 *Adiantum capillus-veneris*, T0173 *Adiantum lunulatum*, T0174 *Adiantum monochlamys*, T0175 *Adiantum pedatum*, T0263 *Ajuga decumbens*, T0264 *Ajuga forrestii*, T0266 *Ajuga macrosperma*, T0267 *Ajuga nipponensis*, T0378 *Alstonia yunnanensis*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0736 *Asclepias curassavica*, T0759 *Aspidistra elatior*, T0859 *Balanophora involucrata*, T0860 *Balanophora japonica*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0920 *Berberis wilsonae*, T0941 *Bidens tripartita*, T0959 *Blumea lacera*, T1043 *Bryophyllum pinnatum*, T1353 *Changium smyrnioides*, T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*], T1705 *Corydalis adunca*, T1746 *Corydalis taliensis*, T1789 *Crepis napifera*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2191 *Dioscorea bulbifera*, T2213 *Dioscorea zingiberensis*, T2433 *Eriobotrya japonica*, T2628 *Euphrasia officinalis*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2790 *Fritillaria pallidiflora*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2800 *Fritillaria walujewii*, T2902 *Gentiana algida*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T2952 *Gerbera piloselloides*, T3123 *Hedyotis auricularia*, T3241 *Hibiscus mutabilis*, T3242 *Hibiscus rosa-sinensis*, T3244 *Hibiscus syriacus*, T3247 *Hibiscus taiwanensis*, T3248 *Hibiscus tiliaceus*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3457 *Iris dichotoma*, T3547 *Ixeris chinensis*, T3736 *Lemmaphyllum microphyllum*, T3749 *Leontopodium alpinum*, T3769 *Lespedeza bicolor*, T3830 *Ligustrum sinense*, T3878 *Lithocarpus polystachyus*, T3926 *Loropetalum chinense*, T3935 *Luffa cylindrica*, T3983 *Lycoris aurea*, T4055 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4144 *Meconopsis nepaulensis*, T4183 *Menispermum dauricum*, T4368 *Nandina domestica*, T4370 *Nandina domestica*, T4506 *Ophioglossum vulgatum*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4537 *Oroxylum indicum*, T4573 *Pachyrrhizus erosus*, T4730 *Peristrophe roxburghiana*, T4760 *Peucedanum japonicum*, T4823 *Pholidota yunnanensis*, T4829 *Phragmites communis*, T4845 *Physalis alkekengi*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T5099 *Polygonum bistorta*, T5100 *Polygonum chinense*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5177 *Potamogeton pectinatus*, T5184 *Potentilla kleiniana*, T5199 *Primula malacoides*, T5449 *Reineckea carnea*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5499 *Rhodiola sacra*, T5685 *Salvia plebeia*, T5714 *Sansevieria trifasciata*, T5719 *Sapindus mukorossi*, T5818 *Scoparia dulcis*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5859 *Selaginella braunii*, T5861 *Selaginella doederleinii*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6047 *Sophora vicifolia*, T6217 *Swertia davidii*, T6304 *Taxillus levinei*, T6403 *Thalictrum petaloideum*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], T6416 *Thamnia*
- vermicularis*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6581 *Tylophora mollissima*, T6582 *Tylophora ovata*, T6691 *Veratrum baillonii*.
- lung heat cough asthma** T0334 *Aloe arborescens* var. *natalensis*, T0374 *Alstonia scholaris*, T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*, T2431 *Eriobotrya japonica*, T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4120 *Marsdenia tenacissima*, T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4287 *Morus alba*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia shearereri*, T5775 *Scabiosa comosa*, T5840 *Scutellaria indica*, T6367 *Teucrium quadrifarium*.
- lung heat cough due to yin vacuity** T4605 *Panax japonicus* var. *major*.
- lung heat dry cough** T0540 *Apis cerana*, T0559 *Arachis hypogaea*, T1490 *Citrus limon*, T1494 *Citrus limonia*, T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*], T4388 *Nasturtium officinale*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*, T5218 *Prunus armeniaca*, T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6512 *Trichosanthes kirilowii*.
- lung heat enduring cough** T1183 *Capra hircus*; *Ovis aries*.
- lung heat hemoptysis** T0262 *Ajuga ciliata*, T1866 *Cryptolepis sinensis*, T3681 *Lamium barbatum*, T3863 *Liparis nervosa*, T5863 *Selaginella moellendorffii*.
- lung heat phlegm cough** T3284 *Houttuynia cordata*.
- lung heat phlegm depression** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T3819 *Ligusticum brachylobum*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*.
- lung heat qi counterflow** T2867 *Garcinia multiflora*.
- lung qi block** T1506 *Citrus reticulata*.
- lung qi distention** T2220 *Diospyros kaki*.
- lung stomach yin damage** T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*], T5094 *Polygonatum prattii*.
- lung vacuity** T0985 *Bos taurus domesticus*; *Bubalus bubalis*.
- lung vacuity and shortness of breath** T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- lung vacuity cold cough** T6267 *Syzygium jambos*.
- lung vacuity consumption cough** T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*].
- lung vacuity cough** T1598 *Codonopsis convolvulacea*, T4050 *Magnolia sieboldii*, T4276 *Monotropa uniflora*, T4821 *Pholidota articulata*, T6798 *Vitis vinifera*.
- lung vacuity dry cough** T6511 *Trichosanthes kirilowii*.
- lung vacuity enduring cough** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*,

- T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T1191 *Caragana sinica*, T2195 *Dioscorea deltoidea*.
- lung vacuity taxation cough** T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].
- lung wilting** T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T3277 *Homo sapiens*, T6508 *Trichosanthes cucumeroides*.
- lymphatic sarcoma** T1318 *Cephalotaxus fortunei*.
- lymphnoditis** T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T5289 *Pteris dactylina*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*].
- lymphnoditis** T0707 *Arthraxon hispidus*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T2359 *Endarachne binghamiae*, T3243 *Hibiscus rosa-sinensis*, T3423 *Indigofera tinctoria*, T4264 *Momordica cochinchinensis*.
- macula** T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T3881 *Lithospermum erythrorhizon*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- macular eruption** T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T5120 *Polygonum tinctorium*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- macular eruption and papules** T1045 *Bubalus bubalis*, T3476 *Isatis indigotica*, T5121 *Polygonum tinctorium*.
- maculopapular eruption** T1986 *Cyrtomium fortunei*, T3475 *Isatis indigotica*.
- malaria** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0248 *Agrimonia pilosa*, T0249 *Agrimonia pilosa* var. *japonica*, T0318 *Allium sativum*, T0374 *Alstonia scholaris*, T0378 *Alstonia yunnanensis*, T0382 *Althaea rosea*, T0468 *Anemone hupehensis*, T0471 *Anemone rivularis*, T0500 *Anguilla japonica*, T0568 *Aralia chinensis*, T0570 *Aralia dasycphylla*, T0606 *Areca catechu*, T0653 *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*], T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0947 *Bixa orellana*, T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T1039 *Bruguiera gymnorhiza*, T1048 *Buddleja officinalis*, T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1176 *Cannabis sativa*, T1247 *Cassia sophora*, T1428 *Cinchona ledgeriana*, T1429 *Cinchona officinalis*, T1433 *Cinchona succirubra*, T1446 *Cipadessa baccifera*, T1535 *Clausena excavata*, T1538 *Clausena lansium*, T1561 *Clerodendron serratum*, T1562 *Clerodendron trichotomum*, T1563 *Clerodendron trichotomum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*], T1888 *Cudrania tricuspidata*, T1931 *Cyclea barbata*, T1986 *Cyrtomium fortunei*, T2023 *Daphne genkwa*, T2131 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*], T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2158 *Dichroa febrifuga*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2263 *Dregea volubilis*, T2267 *Drosera peltata* var. *lunata*, T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*], T2295 *Duranta repens*, T2310 *Dysoxylum hongkongense*, T2421 *Erigeron annuus*, T2505 *Eucalyptus citriodora*, T2517 *Eucalyptus robusta*, T2589 *Euphorbia helioscopia*, T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*], T2641 *Evodia leptota* [Syn. *Ilex leptota*], T2695 *Ferula assafoetida*, T2723 *Ficus pumila*, T3109 *Harrisonia perforata*, T3120 *Hedychium spicatum*, T3124 *Hedyotis capitellata*, T3144 *Helianthus annuus*, T3146 *Helianthus annuus* cv, T3303 *Hydrangea chinensis*, T3304 *Hydrangea macrophylla*, T3308 *Hydrangea umbellata*, T3323 *Hymenodictyon excelsum*, T3327 *Hyoscyamus niger*, T3340 *Hypericum ascyron*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3646 *Kyllinga brevifolia*, T3954 *Lycium barbarum*, T3956 *Lycium chinense*, T4170 *Melilotus albus*, T4172 *Melilotus suaveolens*, T4803 *Phlogacanthus curviflorus*, T4847 *Physalis alkekengi* var. *franchetii*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5110 *Polygonum orientale*, T5182 *Potentilla discolor*, T5184 *Potentilla kleiniana*, T5194 *Premna microphylla*, T5234 *Prunus persica*, T5413 *Ranunculus cantoniensis*, T5414 *Ranunculus japonicus*, T5415 *Ranunculus sceleratus*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5852 *Sedum bulbiferum*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T6005 *Solanum lyratum*, T6075 *Spilanthes acmella*, T6132 *Stephania sasakii*, T6135 *Stephania succifera*, T6177 *Strychnos ignatii*, T6252 *Symplocos chinensis*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*, T6709 *Verbena officinalis*, T6723 *Veronica arvensis*, T6732 *Vespertilio superans*, T6749 *Vicia hirsuta*, T6750 *Vicia sativa*, T6788 *Vitex negundo*, T6866 *Zanthoxylum avicennae*.
- malaria with ardent fever** T1841 *Croton caudatus* var. *tomentosus*.
- malaria with chills and fever** T6402 *Thalictrum omeiense*.
- malaria with fever** T6226 *Swertia mileensis*.
- malaria with splenomegaly** T0834 *Averrhoa carambola*.
- malign malaria** T3323 *Hymenodictyon excelsum*.
- malign obstruction in pregnancy** T0418 *Amomum muricarpum*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- malign scab and lai sore** T4349 *Myrica rubra*.
- malign sore** T1049 *Bufo bufo* gargarizans; *Bufo melanostictus*, T1660 *Coprinus atramentarius*, T1756 *Costus speciosus*, T2036 *Datura innoxia*, T2041 *Datura metel*, T2046 *Datura stramonium*, T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, T2866 *Garcinia morella*, T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*, T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3057 *Gossypium herbaceum*, T4338 *Mylabris phalerata*; *Mylabris cichorii*,

- T5368 *Python molurus bivittatus*, T5414 *Ranunculus japonicus*, T5605 *Rumex acetosa*, T5998 *Solanum dulcamara*, T6429 *Thermopsis lupinoides*, T6555 *Tropaecolum majus*, T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*.
- malign sore and scab lichen** T1858 *Croton tiglium*.
- malign sore and swelling toxin** T0513 *Annona squamosa*, T1799 *Crinum latifolium*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T5671 *Salvia digitaloides*.
- malign sore with welling abscess and flat abscess** T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- malign sores with welling abscess and flat abscess** T1787 *Cremastra appendiculata*, T4917 *Pinus massoniana*.
- malignant lymphoma** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*].
- malignant tumor (therioma)** T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*].
- malignity stroke stupor** T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- mammary consumption** T5137 *Poncirus trifoliata*.
- mammary distention** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonrifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- mammary rock** T1043 *Bryophyllum pinnatum*.
- mammary sore** T4696 *Penaeus orientalis*, T5400 *Rabdosia stracheyi*.
- mammary welling abscess** T0010 *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], T0011 *Abrus precatorius*, T0045 *Acanthopanax trifoliatum*, T0161 *Actinidia eriantha*, T0171 *Adiantum capillus-veneris*, T0172 *Adiantum caudatum*, T0267 *Ajuga nipponensis*, T0446 *Anaphalis margaritacea*, T0567 *Aralia armata*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0634 *Aristolochia mollissima*, T0643 *Aristolochia versicolor*, T0932 *Betula luminifera*, T0971 *Bolbostemma paniculatum*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1007 *Brassica juncea*, T1043 *Bryophyllum pinnatum*, T1188 *Caragana chamlagu*, T1190 *Caragana jubata*, T1338 *Cestrum nocturnum*, T1504 *Citrus reticulata*, T1506 *Citrus reticulata*, T1565 *Clerodendrum bungei*, T1624 *Colocasia antiquorum*, T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1813 *Crotalaria albida*, T1986 *Cyrtomium fortunei*, T2024 *Daphne genkwa*, T2028 *Daphne odora*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T2517 *Eucalyptus robusta*, T2521 *Eucalyptus tereticornis*, T2590 *Euphorbia hirta*, T2787 *Fritillaria hupehensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3080 *Gymnema sylvestris*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3348 *Hypericum elodeoides*, T3363 *Hypericum sampsonii*, T3368 *Hypericum wightianum*, T3432 *Inula helianthus-aquatica*, T3457 *Iris dichotoma*, T3479 *Isodon amethystoides*, T3815 *Ligularia stenocephala*, T3932 *Ludwigia octovalvis*, T3990 *Lygodium japonicum*, T3996 *Lysimachia candida*, T3999 *Lysimachia clethroides*, T4252 *Mirabilis jalapa*, T4265 *Momordica cochinchinensis*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4726 *Periploca forrestii*, T4827 *Photinia parvifolia*, T5090 *Polygala watersii*, T5193 *Pratia nummularia*, T5214 *Prunella vulgaris*, T5298 *Pteris vittata*, T5466 *Rhaponticum uniflorum*, T5650 *Salix babylonica*, T5672 *Salvia flava*, T5701 *Salvia yunnanensis*, T5813 *Scilla scilloides*, T5862 *Selaginella involvens*, T5942 *Sida acuta*, T6092 *Stachys palustris*, T6301 *Taraxacum mongolicum*, T6367 *Teucrium quadrifarium*, T6431 *Thesium chinense*, T6645 *Urena lobata*, T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], T6767 *Viola yedoensis*, T6912 *Zinnia elegans*.
- mammary welling abscess with swelling and pain** T0173 *Adiantum lunulatum*.
- mania and withdrawal** T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T1907 *Curcuma wengujin*, T3329 *Hyoscyamus niger*, T5231 *Prunus persica*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*.
- mania and withdrawal with congesting phlegm** T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*].
- manic agitation schizophrenia** T4243 *Milletia reticulata*.
- march hematoglobinuria** T5587 *Rubus alceaefolius*.
- marked emaciation** T1337 *Cervus nippon*; *Cervus elaphus*, T3279 *Homo sapiens*.
- massive head scourge** T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T3475 *Isatis indigotica*, T3495 *Isodon irrorata*.
- mastitis** T0264 *Ajuga forrestii*, T0594 *Ardisia crenata*, T0707 *Arthraxon hispidum*, T0776 *Asplenium prolongatum*, T1450 *Cirsium lineare*, T1573 *Clinopodium chinense*, T1826 *Crotalaria mucronata*, T1959 *Cynanchum paniculatum*, T2357 *Emilia sonchifolia*, T2691 *Farfugium japonicum*, T2988 *Glochidion eriocarpum*, T3123 *Hedyotis auricularia*, T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*], T3243 *Hibiscus rosa-sinensis*, T3284 *Houttuynia cordata*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4121 *Marsilea quadrifolia*, T4391 *Nauclea officinalis*, T5295 *Pteris multifida*, T5393 *Rabdosia longituba*, T5587 *Rubus alceaefolius*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5844 *Scutellaria scordifolia*, T5857 *Sedum sarmentosum*, T5861 *Selaginella doederleinii*, T6003 *Solanum khasianum*, T6008 *Solanum nigrum*, T6025 *Sonchus arvensis*, T6301 *Taraxacum mongolicum*, T6691 *Veratrum baillonii*, T6808 *Waltheria americana*.
- mastocarcinoma** T0161 *Actinidia eriantha*.
- maybe cure prostatauxe** T5340 *Pygeum topengii*.
- mazischesis** T0560 *Arachis hypogaea*.

- measles papules** T0379 *Alternanthera philoxeroides*, T0586 *Arctium lappa*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T2282 *Dryopteris filix-mas*, T2517 *Eucalyptus robusta*, T2946 *Geranium robertianum*, T3163 *Helicteres angustifolia*, T3303 *Hydrangea chinensis*, T3416 *Imperata cylindrica* var. *major*, T3649 *Laccifer lacca*, T3881 *Lithospermum erythrorhizon*, T4028 *Maesa indica*, T4320 *Murraya kwangsiensis*, T4500 *Onosma paniculatum*, T4526 *Origanum vulgare*, T4552 *Osmunda japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T5401 *Rabdosia yuennanensis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T6145 *Stichopus japonicus*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6385 *Thalictrum flavum*, T6387 *Thalictrum foliolosum*, T6389 *Thalictrum glandulosissimum*.
- measles papules swelling toxin** T1179 *Capparis masaikai*.
- measles papules with ardent fever** T3588 *Juniperus formosana*.
- measles papules with complicated pneumonia** T5408 *Rana nigromaculata*; *Rana plancyi*.
- measles papulis** T3475 *Isatis indigotica*.
- meat-type food accumulation** T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T2695 *Ferula assafoetida*, T5365 *Pyrus pashia*.
- medullitis** T0195 *Aeginetia indica*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T1003 *Brandisia hancei*, T1416 *Cicuta virosa*, T2589 *Euphorbia helioscopia*, T6214 *Swertia chinensis*, T6540 *Tripterygium hypoglaucum*.
- melancholia** T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*].
- meningitis** T1393 *Chrysanthemum indicum*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*].
- menstrual block** T0571 *Aralia decaisneana*, T0600 *Ardisia mamillata* [Syn. *Timus mamillata*], T0661 *Artemisia anomala*, T0963 *Boehmeria siamensis*, T1001 *Brachystemma calycinum*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1884 *Cudrania cochinchinensis*, T1907 *Curcuma wengujin*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3413 *Impatiens nolitangere*, T3479 *Isodon amethystoides*, T3674 *Lagdera alata*, T3779 *Leucas aspera*, T4432 *Nigella glandulifera*, T4549 *Osbeckia chinensis*, T4726 *Periploca forrestii*, T5401 *Rabdosia yuennanensis*, T5586 *Rubia yunnanensis*, T5594 *Rubus parkeri*, T5661 *Salvia bowleyana*, T5672 *Salvia flava*, T5697 *Salvia trijuga*, T5701 *Salvia yunnanensis*, T6830 *Woodfordia fruticosa*.
- menstrual block and abdominal pain** T3201 *Hemiphragma heterophyllum*.
- menstrual disorder** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0298 *Alectoria vivens*, T0301 *Aleuritopteris argentea*, T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T0495 *Angelica sinensis*, T0591 *Ardisia arborescens*, T0805 *Astragalus sinicus*, T0859 *Balanophora involucrata*, T0941 *Bidens tripartita*, T0999 *Bougainvillea glabra*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1143 *Calystegia hederacea*, T1163 *Campylotropis hirtella*, T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], T1356 *Cheiranthus cheiri*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1450 *Cirsium lineare*, T1492 *Citrus limon*, T1496 *Citrus limonia*, T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1735 *Corydalis repens*, T1871 *Cucubalus baccifer*, T1889 *Cuminum cyminum*, T1900 *Curculigo capitulata* [Syn. *Leucocjum capitulata*], T1976 *Cyperus iria*, T1978 *Cyperus rotundus*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2290 *Duchesnea indica*, T2326 *Elaeagnus angustifolia*, T2334 *Elephantopus scaber*, T2347 *Embelia parviflora*, T2387 *Epilobium hirsutum*, T2391 *Epimedium brevicornum*, T2540 *Euonymus fortunei*, T2542 *Euonymus japonicus*, T2545 *Euonymus phellomana*, T2546 *Euonymus sacrosancta*, T2563 *Eupatorium japonicum*, T2636 *Euscaphis japonica*, T2691 *Farfugium japonicum*, T2731 *Firmiana simplex*, T2736 *Fissistigma polyanthum*, T2826 *Galeola faberi*, T2955 *Geum japonicum*, T3056 *Gossypium herbaceum*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3124 *Hedyotis capitellata*, T3240 *Hibiscus esculentus*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3361 *Hypericum perforatum*, T3363 *Hypericum sampsonii*, T3418 *Incarvillea arguta*, T3549 *Ixora chinensis*, T3615 *Kadsura interior*, T3675 *Lagopsis supina*, T3681 *Lamium barbatum*, T3746 *Leontice robustum*, T3752 *Leonurus heterophyllum* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T3765 *Lepisorus ussuriensis*, T3776 *Lethariella zahlbruckneri*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3965 *Lycopodium annotinum*, T3969 *Lycopodium casuarinoides*, T3971 *Lycopodium complanatum*, T3997 *Lysimachia capillipes*, T3999 *Lysimachia clethroides*, T4005 *Lysionotus pauciflorus*, T4178 *Melodinus hemsleyanus*, T4234 *Milletia dielsiana*, T4238 *Milletia nitida*, T4308 *Mucuna birdwoodiana*, T4311 *Mucuna sempervirens*, T4385 *Narcissus tazetta* var. *chinensis*, T4432 *Nigella glandulifera*, T4444 *Nothopanax davidii*, T4450 *Nuphar pumilum*, T4470 *Ocimum basilicum*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4575 *Pachysandra terminalis*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4689 *Peganum nigellastrum*, T4777 *Phalaris arundinacea*, T4804 *Phlojodicarpus sibiricus*, T4813 *Phlomis tuberosa*, T4956 *Piper mullesua*, T5018 *Pleuropteris ciliinervis*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*], T5071 *Polygala arillata*, T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5087 *Polygala telephioides*, T5106 *Polygonum lapathifolium*, T5184 *Potentilla kleiniana*, T5497 *Rhodiola kirilowii*, T5515 *Rhododendron*

- micranthum*, T5523 *Rhododendron simsii*, T5562 *Rosa chinensis*, T5569 *Rosa multiflora*, T5572 *Rosa rugosa*, T5594 *Rubus parkeri*, T5671 *Salvia digitaloides*, T5672 *Salvia flava*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5697 *Salvia trijuga*, T5701 *Salvia yunnanensis*, T5753 *Saussurea gnaphaloides*, T5755 *Saussurea involucrata*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T5762 *Saussurea nigrescens*, T5793 *Schisandra henryi*, T5795 *Schisandra micrantha*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5893 *Senecio nudicaulis*, T5966 *Siphonostegia chinensis*, T6066 *Spatholobus suberectus*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6356 *Tetrapanax papyriferus*, T6645 *Urena lobata*, T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*], T6689 *Ventilago leiocarpa*, T6728 *Veronica serpyllifolia*, T6749 *Vicia hirsuta*, T6750 *Vicia sativa*.
- menstrual disorder [= menoxenia]** T0969 *Boerhavia diffusa*, T1189 *Caragana intermedia*, T1373 *Chloranthus serratus*, T1682 *Cordyceps ophioglossoides*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T3413 *Impatiens nolitangere*, T3779 *Leucas aspera*, T4239 *Millettia nitida* var. *hirsutissima*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4938 *Piper boehmeriaefolium*, T5193 *Pratia nummularia*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5498 *Rhodiola quadrifida*, T5545 *Ribes fasciculatum* var. *chinense*, T5555 *Rodgersia pinnata*, T5563 *Rosa cymosa*, T5566 *Rosa henryi*, T5586 *Rubia yunnanensis*, T5661 *Salvia bowleyana*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6676 *Valeriana hardwickii*, T6722 *Veronica anagallis-aquatica*.
- menstrual disorder**^[509] T4518 *Oppopanax chironium*.
- menstrual disorder due to cold** T0664 *Artemisia argyi*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*.
- menstrual pain** T3363 *Hypericum sampsonii*, T4962 *Piper puberulum*, T5661 *Salvia bowleyana*, T5671 *Salvia digitaloides*, T5672 *Salvia flava*.
- menstruant's morbidity** T5993 *Solanum capsicastrum*.
- mental disease** T0298 *Alectoria vivens*, T4423 *Nicandra physaloides*.
- mental manic agitation** T5821 *Scopolia japonica*.
- mercurial poisoning** T5977 *Smilax glabra*, T5980 *Smilax menispermoidea*.
- miasmatic malaria** T2092 *Delphinus delphis*.
- migraine** T0088 *Aconitum coreanum*, T1084 *Buthus martensi*, T1374 *Chloranthus spicatus*, T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T1541 *Claviceps purpurea*, T1562 *Clerodendron trichotomum*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*], T4662 *Parthenocissus tricuspidata*, T5414 *Ranunculus japonicus*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6588 *Typhonium giganteum*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- mough and tongue sores** T3830 *Ligustrum sinense*, T3932 *Ludwigia octovalvis*, T4730 *Peristrophe roxburghiana*, T6268 *Syzygium samarangense*.
- mounting pain** T1537 *Clausena lansium*, T4157 *Melia azedarach*, T4987 *Pittosporum tobira*.
- mounting qi** T0164 *Actinidia polygama*, T0274 *Akebia quinata*, T0275 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0598 *Ardisia japonica*, T0610 *Argemone mexicana*, T0680 *Artemisia lactiflora*, T0721 *Arundina chinensis*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T1092 *Buxus microphylla* var. *sinica*, T1113 *Calendula officinalis*, T1217 *Carum carvi*, T1258 *Casuarina equisetifolia*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1359 *Chenopodium album*, T1479 *Citrus grandis*, T1487 *Citrus junos*, T1504 *Citrus reticulata*, T1586 *Cocculus laurifolius*, T1598 *Codonopsis convolvulacea*, T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1869 *Cryptotaenia japonica*, T2432 *Eriobotrya japonica*, T2536 *Euonymus alatus*, T2632 *Euryale ferox*, T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*, T2733 *Firmiana simplex*, T2746 *Foeniculum vulgare*, T3221 *Heracleum rapula*, T3852 *Lindera megaphylla*, T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*], T4100 *Mangifera indica*, T4163 *Melia toosendan*, T4268 *Monachosorum henryi*, T4530 *Ormosia hosiei*, T4616 *Pandanus tectorius*, T4663 *Passiflora caerulea*, T4690 *Pelargonium graveolens*, T4847 *Physalis alkekengi* var. *franchetii*, T4852 *Physalis peruviana*, T4948 *Piper hancei*, T4966 *Piper sarmentosum*, T5110 *Polygonum orientale*, T5137 *Poncirus trifoliata*, T5139 *Poncirus trifoliata*, T5189 *Pothos chinensis*, T5626 *Ruta graveolens*, T5720 *Sapindus mukorossi*, T6101 *Stauntonia hexaphylla*, T6528 *Trigonella foenum-graecum*, T6540 *Tripterygium hypoglaucum*, T6800 *Viverra zibetha*.
- mounting qi [= hernia]** T1381 *Choerospondias axillaris*, T1552 *Cleome viscosa*, T3006 *Glycosmis citrifolia*, T3270 *Holboellia fargesii*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T4158 *Melia azedarach*, T4439 *Nothapodytes pittosporoides*, T4962 *Piper puberulum*, T5661 *Salvia bowleyana*, T5701 *Salvia yunnanensis*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T6527 *Trigonella caerulea*, T6876 *Zanthoxylum dissitum*.
- mounting qi [= hernia]** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T5391 *Rabdosia eriocalyx*, T6789 *Vitex negundo*.
- mounting qi pain** T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T3877 *Litchi chinensis*.
- mounting qi with unilateral sagging of one testicle** T3360 *Hypericum patulum*.
- mounting-conglomeration** T6925 *Zostera marina*.
- mounting-conglomeration accumulation-gathering** T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*.
- mouth and tongue sores** T0378 *Alstonia yunnanensis*, T0959 *Blumea lacera*, T0977 *Bombyx mori*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1045 *Bubalus bubalis*, T1361 *Chenopodium ambrosioides*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].

- mouth sore** T0019 *Acacia catechu*, T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0540 *Apis cerana*, T0632 *Aristolochia manshuriensis*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0897 *Berberis amurensis*, T0907 *Berberis kawakamii*, T0912 *Berberis poiratii*, T0916 *Berberis thunbergii*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1182 *Capra hircus*; *Ovis aries*, T1256 *Castanea mollissima*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1554 *Clerodendron cyrtophyllum*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T2221 *Diospyros kaki*, T2274 *Dryobalanops aromatica*, T2290 *Duchesnea indica*, T2628 *Euphrasia officinalis*, T2838 *Gallus gallus domesticus*, T3277 *Homo sapiens*, T3342 *Hypericum bellum*, T3356 *Hypericum japonicum*, T3361 *Hypericum perforatum*, T3363 *Hypericum sampsonii*, T3420 *Incarvillea sinensis*, T3423 *Indigofera tinctoria*, T3578 *Juncus effusus*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3920 *Lophatherum gracile*, T3990 *Lygodium japonicum*, T4172 *Melilotus suaveolens*, T4178 *Melodinus hemsleyanus*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4836 *Phyllanthus emblica*, T4837 *Phyllanthus emblica*, T4843 *Phyllanthus urinaria*, T5099 *Polygonum bistorta*, T5121 *Polygonum tinctorium*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5457 *Rhamnus davurica*, T5569 *Rosa multiflora*, T6116 *Stenoloma chusanum*, T6224 *Swertia kouitchensis*, T6231 *Swertia pseudochinensis*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6615 *Uncaria gambir*, T6728 *Veronica serpyllifolia*.
- mouth-level nape sore** T4616 *Pandanus tectorius*, T5111 *Polygonum perfoliatum*.
- mouth-lever nape sore (nuchal phlegmon)** T5513 *Rhododendron mariae*.
- multi-infarct dementia** T2961 *Ginkgo biloba*.
- multiple swollen swelling abscess** T5279 *Psychotria serpens*.
- mumps** T0048 *Acanthus ilicifolius*, T0471 *Anemone rivularis*, T1384 *Chondrus ocelladus*, T3990 *Lygodium japonicum*, T4884 *Picria felterrae*, T5289 *Pteris dactylina*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6767 *Viola yedoensis*.
- muscle numbness** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T5108 *Polygonum multiflorum*.
- muscle weakness** T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.
- myocardiac ischemia** T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*.
- nasal congestion** T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T1312 *Centipeda minima*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T6359 *Teucrium bidentatum*.
- nasal congestion and runny nose** T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T4663 *Passiflora caerulea*, T6499 *Tribulus terrestris*.
- nasitis** T0707 *Arthraxon hispidus*, T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T4215 *Michelia yunnanensis*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*].
- nasopharyngeal carcinoma** T2844 *Ganoderma applanatum*, T3443 *Iphigenia indica*.
- nasosinusitis** T1044 *Bryum argenteum*, T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T4859 *Physochlaina physaloides*, T5189 *Pothos chinensis*.
- nausea** T3372 *Hypodematium sinense*, T4305 *Mosla dianthera*.
- nausea and vomiting** T1278 *Cedrela sinensis*, T1486 *Citrus junos*, T1488 *Citrus junos*, T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*, T3282 *Hordeum vulgare*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*, T6325 *Tectona grandis*.
- nephritis** T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1655 *Conyza blinii*, T1709 *Corydalis bungeana*, T1819 *Crotalaria ferruginea*, T2119 *Derris eriocarpa*, T3594 *Juniperus rigida*, T4842 *Phyllanthus reticulatus*, T5687 *Salvia prionitis*, T5795 *Schisandra micrantha*, T5867 *Selaginella sinensis*, T6023 *Solidago virgaurea*, T6277 *Tadehagi triquetrum*, T6691 *Veratrilla baillonii*.
- nephritis with edema** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T1184 *Capsella bursa-pastoris*, T1415 *Cichorium intybus*, T2334 *Elephantopus scaber*, T2884 *Gardenia jasminoides* var. *grandiflora*, T3998 *Lysimachia christinae*, T4843 *Phyllanthus urinaria*, T5685 *Salvia plebeia*, T6129 *Stephania japonica*, T6330 *Tephrosieris kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6436 *Thlaspi arvense*.
- nephropathy syndrome** T6542 *Tripterygium wilfordii*.
- nephropylitis** T0967 *Boenninghausenia sessilicarpa*, T2941 *Gentianopsis paludosa*.
- nervous headache** T6003 *Solanum khasianum*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- nervous system diseases** T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*].
- neuralgia** T0135 *Aconitum sunpanense*, T0138 *Aconitum umbrosum*, T0495 *Angelica sinensis*, T0539 *Apis cerana*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*],

- T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], T2897 *Gelsemium elegans*, T4663 *Passiflora caerulea*, T4804 *Phlojodicarpus sibiricus*, T4903 *Pinellia pedatisecta*, T5848 *Securinega suffruticosa*, T6100 *Stauntonia hexaphylla*, T6122 *Stephania dielsiana*, T6133 *Stephania sinica*, T6135 *Stephania succifera*.
- neurasthenia** T0572 *Aralia elata*, T1381 *Choerospondias axillaris*, T1525 *Cladonia fallax*, T1598 *Codonopsis convolvulacea*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1683 *Cordyceps sinensis*, T1826 *Crotalaria mucronata*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T3077 *Gymnadenia conopsea*, T4248 *Mimosa pudica*, T4283 *Morinda officinalis*, T4436 *Nitraria tangutorum*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5107 *Polygonum multiflorum*, T5169 *Poria cocos*, T5465 *Rhaponticum carthamoides*, T5848 *Securinega suffruticosa*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6919 *Ziziphus jujuba* var. *spinosa*.
- neuritis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishouii*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- neurodermatitis** T0495 *Angelica sinensis*, T0750 *Asparagus gobicus*, T1215 *Carthamus tinctorius*, T1650 *Convolvulus arvensis*, T1959 *Cynanchum paniculatum*, T2023 *Daphne genkwa*, T4804 *Phlojodicarpus sibiricus*, T5026 *Plumbagella micrantha*, T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*], T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6119 *Stephania cepharantha*, T6540 *Tripterygium hypoglaucom*.
- neurosis** T4248 *Mimosa pudica*, T5107 *Polygonum multiflorum*, T5499 *Rhodiola sacra*.
- night blindness** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T1789 *Crepis napifera*, T2434 *Eriocaulon buergerianum*, T3779 *Leucas aspera*, T3957 *Lycium chinense*, T3969 *Lycopodium casuarinoides*, T6076 *Spinacia oleracea*, T6732 *Vespertilio superans*.
- night sweating** T0607 *Arenaria juncea*, T0825 *Atropa belladonna*, T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*], T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T2658 *Fagopyrum esculentum*, T2727 *Ficus simplicissima*, T3001 *Glycine max*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T3279 *Homo sapiens*, T3742 *Lentinus edodes*, T3950 *Lychnis fulgens*, T3969 *Lycopodium casuarinoides*, T4450 *Nuphar pumilum*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T4887 *Picrorhiza kurrooa*, T4888 *Picrorhiza scrophulariiflora*, T5133 *Polytrichum commune*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T5955 *Silene jensseensis*.
- nipple moth** T0950 *Blatta orientalis*, T1001 *Brachystemma calycinum*, T1210 *Carpesium abrotanoides*, T3356 *Hypericum japonicum*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*], T6039 *Sophora moorcroftiana*, T6431 *Thesium chinense*.
- no thought of food and drink** T1492 *Citrus limon*, T1496 *Citrus limonia*, T4470 *Ocimum basilicum*, T4681 *Pedicularis decora*, T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*].
- node swelling** T4954 *Piper longum*.
- non-diffusion of lung qi** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- non-digestion of food accumulation** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*, T0275 *Akebia quinata*, T1483 *Citrus grandis* var. *tomentosa*, T1488 *Citrus junos*, T1546 *Clematis tangutica*, T1937 *Cydonia oblonga*, T2452 *Erysimum cheiranthoides*, T3620 *Kaempferia galanga*, T4470 *Ocimum basilicum*, T4714 *Perilla frutescens*, T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*].
- non-eruption of macula** T1417 *Cimicifuga acerina*, T1423 *Cimicifuga nanchuanensis*, T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*].
- non-eruption of measles** T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T2721 *Ficus microcarpa*, T3649 *Laccifer lacca*, T3738 *Lemna minor*, T3742 *Lentinus edodes*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4413 *Nepeta cataria*, T4456 *Nymphoides peltatum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*.
- noninfectious fever** T1633 *Commelina communis*.
- non-interaction of heart and kidney** T4401 *Nelumbo nucifera*.
- non-opened welling abscess and flat abscess** T4338 *Mylabris phalerata*; *Mylabris cichorii*.
- nose carcinoma** T2897 *Gelsemium elegans*.
- nose sores** T3361 *Hypericum perforatum*.
- nosebleed** T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T6139 *Sterculia lychnophora*.
- nosebleed (epistaxis)** T0843 *Babylonia lutosa*, T0952 *Blechnum orientale*, T1171 *Canis familiaris*, T1251 *Cassytha filiformis*, T1296 *Celosia argentea*, T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*], T1592 *Cocos nucifera*, T1655 *Conyza blinii*, T1684 *Cordylone stricta*, T2157 *Dichotomanthes tristaniaecarpa*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2365 *Enteromorpha clathrata*, T2884 *Gardenia jasminoides* var. *grandiflora*, T3242 *Hibiscus rosa-sinensis*, T3278 *Homo sapiens*,

- T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3701 *Lasiosphaera fenzlii*, T3961 *Lycoperdon pyriforme*, T4190 *Mentha spicata*, T4248 *Mimosa pudica*, T4259 *Mnium cuspidatum*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua* T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia shearerii*, T5529 *Rhodomyrtus tomentosa*, T5569 *Rosa multiflora*, T6046 *Sophora viciifolia*, T6742 *Vicia amoena*, T6745 *Vicia faba*, T6749 *Vicia hirsuta*, T6750 *Vicia sativa*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6830 *Woodfordia fruticosa*.
- numbing wind** T3300 *Hydnocarpus anthelminticus*.
- numbing wind (leprosy)**^[5509] T5272 *Psorospermum febrifugum*.
- numbness and paralysis** T2732 *Firmiana simplex*, T4308 *Mucuna birdwoodiana*, T6066 *Spatholobus suberectus*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.
- numbness in joints** T4290 *Morus alba*.
- numbness in limbs** T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T0634 *Aristolochia mollissima*, T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T1175 *Cannabis sativa*, T1286 *Celastrus flagellaris*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1545 *Clematis chinensis*, T1562 *Clerodendron trichotomum*, T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2211 *Dioscorea tenuipes*, T2753 *Formica fusca*, T2890 *Gastrodia elata*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3643 *Kopsia officinalis*, T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*], T3657 *Lactarius vellereus*, T3680 *Lamium amplexicaule*, T3785 *Levisticum officinale*, T3847 *Lindera angustifolia*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3897 *Litsea verticillata*, T3965 *Lycopodium annotinum*, T4190 *Mentha spicata*, T4238 *Millettia nitida*, T4311 *Mucuna sempervirens*, T4688 *Peganum harmala*, T4800 *Phlegmariurus fordii*, T4956 *Piper mullesua*, T5236 *Prunus pseudocerasus*, T5298 *Pteris vittata*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5848 *Securinega suffruticosa*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*], T6183 *Strychnos nitida*, T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*].
- numbness in lumbus and leg** T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*].
- numbness of limbs** T3976 *Lycopodium obscurum*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4725 *Periploca calophylla*.
- odynuria** T1967 *Cynoglossum amabile*, T3284 *Houttuynia cordata*.
- opacity of urine** T1823 *Crotalaria juncea*, T3885 *Litsea cubeba*, T5124 *Polypodium niponicum*.
- open pus sore of lung** T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*].
- ophthalmia** T0293 *Albizia lebbekii*.
- oppression and depression in chest** T2758 *Fortunella crassifolia*, T2759 *Fortunella japonica*, T2760 *Fortunella margarita*.
- oppression in chest** T1498 *Citrus medica*, T1520 *Citrus wilsonii*, T2246 *Dolichos lablab*, T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].
- oppression in chest and abdomen distention** T0463 *Anemone altaica*, T1486 *Citrus junos*, T2563 *Eupatorium japonicum*, T4209 *Michelia alba*.
- oppression in chest and qi bind** T4855 *Physeter catodon*.
- oppression in chest and vexation in heart** T3192 *Hemerocallis citrina*.
- oppression in chest due to glomus** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1469 *Citrus aurantium* var. *amara*.
- optic nerve atrophy** T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- oral gan** T3827 *Ligustrum japonicum*.
- oral putrescence** T0834 *Averrhoa carambola*.
- oral ulcer** T0172 *Adiantum caudatum*, T0543 *Apis mellifera ligustica*, T1247 *Cassia sophera*, T1747 *Corydalis thalictrifolia*, T2357 *Emilia sonchifolia*, T3174 *Heliotropium indicum*, T4979 *Pistacia chinensis*, T5199 *Primula malacoides*.
- osteoarthritis** T0138 *Aconitum umbrosum*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*.
- osteomalacia** T5270 *Psoralea corylifolia*.
- osteoporosis** T5270 *Psoralea corylifolia*.
- otitis media** T0015 *Abutilon indicum*, T0516 *Anser cygnoides domestica*, T0517 *Anser cygnoides domestica*, T0646 *Armillariella tabescens*, T1655 *Conyza blinii*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1733 *Corydalis racemosa*, T1922 *Cyanotis vaga*, T2830 *Galium aparine*, T3284 *Houttuynia cordata*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4691 *Pelargonium hortorum*, T4859 *Physochlaina physaloides*, T5100 *Polygonum chinense*, T5189 *Pothos chinensis*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5773 *Saxifraga stolonifera*, T5836 *Scutellaria discolor*, T5892 *Senecio nemorensis*, T5953 *Silene firma*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6206 *Sus scrofa domestica*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- outcrop** T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*].
- outcrop of sore and welling abscess** T5228 *Prunus mume*.
- ovarian carcinoma** T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*].
- oxhide lichen** T2772 *Fraxinus mandshurica*.
- oxyuria** T3466 *Iris potaninii*.
- oxyuria disease** T0318 *Allium sativum*, T0364 *Alsophila spinulosa*, T1211 *Carpesium abrotanoides*, T1361 *Chenopodium ambrosioides*, T1382 *Chondria armata* [Syn. *Lophura armata*], T1881 *Cucurbita moschata*, T2049 *Daucus carota*, T2281 *Dryopteris crassirhizoma*, T3688 *Lappula echinata*, T4083 *Mallotus philippinensis*, T4084 *Mallotus philippinensis*, T4127 *Matteuccia struthiopteris*, T4156 *Melia azedarach*, T4162 *Melia toosendan*, T5185 *Potentilla multifida*, T5384 *Quisqualis indica*, T5920 *Seriphidium cinum* [Syn. *Artemisia cina*], T5921 *Seriphidium finitum* [Syn. *Artemisia finita*], T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6201 *Styrax obassia*, T6713 *Vernonia anthelmintica*.
- paddy field dermatitis** T2835 *Galium verum*.
- paddy field dermatitis (water ulcer)** T2988 *Glochidion eriocarpum*.

- paddy-field dermatitis** T3996 *Lysimachia candida*.
- pain after operation** T1959 *Cynanchum paniculatum*.
- pain from arthritis** T1589 *Cocculus trilobus* [Syn. *Cocculus sarmmentosus*], T3410 *Impatiens balsamina*, T5964 *Sinomenium acutum*.
- pain from carcinoma** T0079 *Aconitum brachypodum*, T0117 *Aconitum nagarum* var. *lasiandrum*.
- pain from swollen welling abscess** T2718 *Ficus carica*.
- pain from ulcer in digestive tract** T1017 *Brassica oleracea* var. *capitata*, T1357 *Chelidonium majus*.
- pain in chest and abdomen** T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T5715 *Santalum album*.
- pain in chest and abdomen and rib-side** T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T1907 *Curcuma wengujin*.
- pain in chest and back** T4143 *Meconopsis horridula*.
- pain in deep tissues** T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*].
- pain in heart and abdomen** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0994 *Boswellia carterii*, T1008 *Brassica juncea*, T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1735 *Corydalis repens*, T2536 *Euonymus alatus*, T3853 *Lindera obtusiloba*, T4631 *Papaver nudicaule* var. *chinense*, T4635 *Papaver somniferum*, T4855 *Physeter catodon*, T5221 *Prunus davidiana*, T5235 *Prunus persica*, T5301 *Pterocarpus indicus*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6062 *Sparganium stoloniferum*, T6105 *Stellera chamaejasme*, T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.
- pain in heart and stomach** T5042 *Podocarpus macrophyllus*, T5044 *Podocarpus macrophyllus* var. *maki*.
- pain in hepatic zone** T3461 *Iris japonica*.
- pain in joints** T0077 *Aconitum balfourii*, T0079 *Aconitum brachypodum*, T0084 *Aconitum carmichaeli*, T0086 *Aconitum chasmanthum*, T0090 *Aconitum delavayi*, T0099 *Aconitum gymnandrum*, T0105 *Aconitum karakolicum*, T0108 *Aconitum kusnezoffii*, T0117 *Aconitum nagarum* var. *lasiandrum*, T0135 *Aconitum sungpanense*, T0483 *Angelica gigas*, T0881 *Bauhinia variegata*, T1043 *Bryophyllum pinnatum*, T1577 *Clitoria ternatea*, T1799 *Crinum latifolium*, T1955 *Cynanchum hancockianum*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2750 *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*], T3332 *Hypocoum erectum*, T3334 *Hypocoum leptocarpum*, T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3886 *Litsea euosma*, T4665 *Passiflora edulis*, T4681 *Pedicularis decora*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5569 *Rosa multiflora*, T6826 *Wisteria sinensis*.
- pain in joints due to rheumatism** T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0631 *Aristolochia kaempferi*, T0642 *Aristolochia tubiflora*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T2745 *Foeniculum vulgare*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*], T3349 *Hypericum erectum*, T3400 *Illicium difengpi*, T3403 *Illicium majus*, T3797 *Libanotis condensata*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4020 *Macleaya cordata*, T4527 *Orixa japonica*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4663 *Passiflora caerulea*, T4842 *Phyllanthus reticulatus*, T5279 *Psychotria serpens*, T5396 *Rabdosia rubescens*, T5414 *Ranunculus japonicus*, T5609 *Rumex hastatus*, T5638 *Sabia swinhoei*, T5639 *Sabina chinensis*, T5987 *Sobina chinensis*, T6005 *Solanum lyratum*, T6888 *Zanthoxylum planispinum*.
- pain in limbs** T0079 *Aconitum brachypodum*, T0117 *Aconitum nagarum* var. *lasiandrum*, T0138 *Aconitum umbrosum*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- pain in lumbus and knees** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1735 *Corydalis repens*, T1923 *Cyathula capitata*, T2479 *Erythrina variegata* var. *orientalis*, T3213 *Heracleum hemsleyanum*, T3214 *Heracleum lanatum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3228 *Heracleum yungningense*, T4656 *Parmelia saxatilis*, T6862 *Zanthoxylum ailanthoides*.
- pain in lumbus and leg** T3363 *Hypericum sampsonii*, T5591 *Rubus cochinchinensis*.
- pain in lumbus and legs** T0006 *Abies nephrolepis*, T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T0100 *Aconitum hemsleyanum* var. *circinacum*, T0101 *Aconitum hemsleyanum*, T0125 *Aconitum pseudostapfianum*, T0644 *Armillaria mellea*, T0645 *Armillariella mellea*, T1417 *Cimicifuga acerina*, T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T3401 *Illicium henryi*, T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*], T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T3976 *Lycopodium obscurum*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T5236 *Prunus pseudocerasus*, T5978 *Smilax glauco-china*, T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*], T6531 *Trillium camtschaticum*, T6533 *Trillium kamschaticum*, T6535 *Trillium tschonoskii*, T6777 *Viscum multinerve*.
- pain in rib-side** T0045 *Acanthopanax trifoliatus*, T1406 *Chrysosplenium nudicaule*, T1498 *Citrus medica*, T1520 *Citrus wilsonii*, T1705 *Corydalis adunca*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3418 *Incarvillea arguta*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*].

- pain in rib-side due to stagnation** T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*.
- pain in sensory nerve endings** T1357 *Chelidonium majus*.
- pain in sinews and bones** T0969 *Boerhavia diffusa*, T1025 *Bretschneidera sinensis*, T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T3360 *Hypericum patulum*, T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T3680 *Lamium amplexicaule*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T4642 *Parameria laevigata*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5813 *Scilla scilloides*, T5840 *Scutellaria indica*, T6252 *Symplocos chinensis*, T6548 *Tritonia crocosmaeflora*, T6827 *Wisteria sinensis*, T6845 *Xanthoceras sorbifolia*.
- pain in stomach duct** T0045 *Acanthopanax trifoliatum*, T0201 *Aesculus chinensis*, T0202 *Aesculus hippocastanum*, T0205 *Aesculus wilsonii*, T0567 *Aralia armata*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0571 *Aralia decaisneae*, T0642 *Aristolochia tubiflora*, T0877 *Bauhinia championii*, T1163 *Campylotropis hirtella*, T1384 *Chondrus ocelladus*, T1436 *Cinnamomum camphora*, T2027 *Daphne odora*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T4305 *Mosla dianthera*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4604 *Panax japonicus* var. *bipinnatifidus*, T5137 *Poncirus trifoliata*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5401 *Rabdosia yunnanensis*, T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*], T5785 *Schefflera venulosa*, T6548 *Tritonia crocosmaeflora*.
- pain in stomach duct, abdomen and rib-side** T1327 *Ceratostigma minus*.
- pain in stomach duct and abdomen** T0229 *Ageratum conyzoides*, T0491 *Angelica polymorpha*, T0540 *Apis cerana*, T0634 *Aristolochia mollissima*, T0641 *Aristolochia tuberosa*, T0859 *Balanophora involucreta*, T1444 *Cinnamomum tamala*, T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], T1934 *Cyclea tonkinensis*, T2643 *Evodia meliifolia*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3328 *Hyoscyamus niger*, T3329 *Hyoscyamus niger*, T3567 *Juglans regia*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T4004 *Lysimachia paridiformis*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4577 *Paederia scandens*, T4637 *Papaver somniferum*, T4962 *Piper puberulum*, T5021 *Pleurospermum rivulorum*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5661 *Salvia bowleyana*, T5781 *Schefflera arboricola*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*].
- pain in stomach duct and rib-side** T4157 *Melia azedarach*, T6801 *Vladimiria denticulata*.
- pain in stomach duct and rib-side due to liver qi depression** T3554 *Jasminum grandiflorum*.
- pain in throat** T0805 *Astragalus sinicus*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], T5501 *Rhodiola yunnanensis*.
- pain in tooth and cheek** T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*.
- pain of blood stasis** T3276 *Homo sapiens*, T4479 *Odontites serotina*, T6895 *Zanthoxylum simulans*.
- pain of hot urine** T0423 *Ampelopsis brevipedunculata*, T2134 *Desmodium styracifolium*.
- pain of hot urine and inhibited urination** T2410 *Equisetum pratense*.
- pain wind** T0319 *Allium schoenoprasum*, T1188 *Caragana chamlagu*, T1191 *Caragana sinica*, T1416 *Cicuta virosa*, T2020 *Damnacanthus indicus*, T2412 *Equisetum sylvaticum*, T3443 *Iphigenia indica*, T3594 *Juniperus rigida*, T4267 *Monachosorum flagellare*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T6018 *Solanum verbascifolium*, T6673 *Vaccinium vitis-idaea*.
- pain wind in joints** T6895 *Zanthoxylum simulans*.
- pain wind in limbs** T1262 *Catalpa ovata*.
- painful bind in lesser-abdomen** T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*.
- painful joints due to rheumatgia** T0096 *Aconitum forrestii* [Syn. *Aconitum likiangense*], T0100 *Aconitum hemleyanum* var. *circinacum*, T0101 *Aconitum hemleyanum*, T0107 *Aconitum kongboense*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T2263 *Dregea volubilis*, T3674 *Laggera alata*, T5102 *Polygonum cuspidatum*.
- painful red eyes** T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T4263 *Momordica charantia*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*.
- painful swelling from clove sore** T3426 *Inula britannica*, T3433 *Inula japonica*, T4388 *Nasturtium officinale*, T5723 *Sapium sebiferum*.
- painful swelling from knocks and falls** T0262 *Ajuga ciliata*, T0266 *Ajuga macrosperma*, T0267 *Ajuga nipponensis*, T0293 *Albizia lebeck*, T0310 *Allium ascalonicum*, T0374 *Alstonia scholaris*, T0571 *Aralia decaisneae*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0871 *Barleria lupulina*, T1120 *Callicarpa macrophylla*, T1181 *Capra hircus*; *Ovis aries*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1441 *Cinnamomum japonicum*, T1552 *Cleome viscosa*, T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], T1808 *Crocus sativus*, T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *juifengshanense*, T2124 *Derris trifoliata*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2200 *Dioscorea hispida*, T2290 *Duchesnea indica*, T2449 *Erycibe obtusifolia*, T2450 *Erycibe schmidtii*, T2602 *Euphorbia nematocarpa*, T2614 *Euphorbia pulcherrima*, T2631 *Eurya japonica*, T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*], T2720 *Ficus hispida*, T2736 *Fissistigma polyanthum*, T2857 *Garcinia*

hanburyi, T3006 *Glycosmis citrifolia*, T3190 *Helminthostachys zeylanica*, T3292 *Hunteria zeylanica*, T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancreatium littoralis*], T3410 *Impatiens balsamina*, T3471 *Iris tectorum*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3880 *Lithospermum arvense*, T3897 *Litsea verticillata*, T4020 *Macleaya cordata*, T4029 *Maesa japonica*, T4158 *Melia azedarach*, T4190 *Mentha spicata*, T4221 *Micromelum falcatum*, T4223 *Micromelum integerrimum*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4413 *Nepeta cataria*, T4418 *Nerium indicum*, T4503 *Onychium lucidum*, T4506 *Ophioglossum vulgatum*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4686 *Pedilanthus tithymaloides*, T4730 *Peristrophe roxburghiana*, T4962 *Piper puberulum*, T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5158 *Populus simonii*, T5172 *Portulaca grandiflora*, T5267 *Psidium guajava*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5444 *Reboulia hemisphaerica*, T5501 *Rhodiola yunnanensis*, T5741 *Sargentodoxa cuneata*, T5781 *Schefflera arboricola*, T5884 *Senecio chrysanthemoides*, T5975 *Smilax bockii*, T6018 *Solanum verbascifolium*, T6092 *Stachys palustris*, T6095 *Stachytarpheta jamaicensis*, T6138 *Sterculia foetida*, T6264 *Syzygium buxifolium*, T6578 *Tylophora atrofalliculata*, T6645 *Urena lobata*, T6738 *Viburnum odoratissimum*, T6788 *Vitex negundo*.

painful swelling throat moth T2835 *Galium verum*.

painful swollen breast T1978 *Cyperus rotundus*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*.

painful swollen testes T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T1504 *Citrus reticulata*, T2321 *Ecklonia kurome*, T2636 *Euscaphis japonica*, T3678 *Laminaria japonica*, T3877 *Litchi chinensis*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T6020 *Solanum xanthocarpum*, T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6527 *Trigonella caerulea*, T6640 *Undaria pinnatifida*.

painful wound from knocks and falls T0019 *Acacia catechu*, T0634 *Aristolochia mollissima*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0957 *Blumea balsamifera*, T1092 *Buxus microphylla* var. *sinica*, T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1343 *Chaenomeles sinensis*, T1435 *Cinnamomum camphora*, T1931 *Cyclea barbata*, T1933 *Cyclea sutchuenensis*, T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T2295 *Duranta repens*, T2536 *Euonymus alatus*, T3329 *Hyoscyamus niger*, T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T3548 *Ixeris sonchifolia*, T3849 *Lindera chunii*, T4268 *Monachosorum henryi*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T5118 *Polygonum suffultum*, T5119 *Polygonum thunbergii*, T5393 *Rabdosia longituba*, T5397 *Rabdosia serra*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5572 *Rosa rugosa*, T5591

Rubus cochinchinensis, T5606 *Rumex acetosa*, T5822 *Scopolia sinensis*, T6015 *Solanum torvum*, T6100 *Stauntonia hexaphylla*, T6548 *Tritonia crocosmaeflora*, T6676 *Valeriana hardwickii*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.

palms and breathe hard T1381 *Choerospondias axillaris*.

palpitation T0553 *Apocynum venetum*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T2452 *Erysimum cheiranthoides*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T5107 *Polygonum multiflorum*, T5516 *Rhododendron molle*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*], T6750 *Vicia sativa*.

palpitation and dizziness T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].

palpitation and fearful throbbing T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T6060 *Souliea vaginata*.

palpitation and insomnia T0190 *Adonis sutchuenensis*, T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1804 *Cristaria plicata*; *Hyriopsis cumingii*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T3743 *Lentinus lepideus*, T4194 *Menyanthes trifoliata*, T5497 *Rhodiola kirilowii*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*.

palpitation and night sweating T6798 *Vitis vinifera*.

palpitation and shortness of breath T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T4729 *Periploca sepium*, T4902 *Pimpinella thelungiana*.

papules T1239 *Cassia nodosa*, T5818 *Scoparia dulcis*.

paralysis in limbs T3615 *Kadsura interior*.

paralysis T0978 *Bombyx mori*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1976 *Cyperus iria*, T2422 *Erigeron breviscapus*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T5236 *Prunus pseudocerasus*, T5368 *Python molurus bivittatus*, T5822 *Scopolia sinensis*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T6183 *Strychnos nitida*.

paralysis in limbs T5144 *Populus adenopoda*.

paralytic and pruritus T5964 *Sinomenium acutum*.

parkinson's disease T2964 *Ginkgo biloba*.

parotitis T0012 *Abrus precatorius*, T0015 *Abutilon indicum*, T0643 *Aristolochia versicolor*, T0952 *Blechnum orientale*, T1327 *Ceratostigma minus*, T1573 *Clinopodium chinense*, T1709 *Corydalis bungeana*, T1819 *Crotalaria ferruginea*, T1884 *Cudrania cochinchinensis*, T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*], T2298 *Dysosma difformis*, T3243 *Hibiscus rosa-sinensis*, T3423 *Indigofera tinctoria*, T3475 *Isatis indigotica*, T3736 *Lemmaphyllum microphyllum*, T4127 *Matteuccia struthiopteris*, T4552 *Osmunda japonica*, T5098 *Polygonum aviculare*, T5295 *Pteris multifida*, T5806 *Schlumbergera truncata*, T6119 *Stephania cepharantha*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].

paroxysmal fibrillation T6433 *Thevetia nerifolia* [Syn. *Thevetia*

- peruviana*].
- paroxysmal supraventricular tachycardia** T6433 *Thevetia neriiifolia* [Syn. *Thevetia peruviana*].
- paroxysmal tachycardia** T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*].
- pelvic inflammation** T3547 *Ixeris chinensis*, T6217 *Swertia davidii*.
- pelvic inflammation** T0215 *Agave americana*, T1826 *Crotalaria mucronata*, T5169 *Poria cocos*.
- pemphigus** T5395 *Rabdosia nervosa*.
- peptic ulcer** T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*].
- periodontitis** T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T2749 *Fomes officinalis*, T2852 *Garcinia cowa*.
- periostitis** T1003 *Brandisia hancei*.
- peripheral arterial diseases** T2964 *Ginkgo biloba*.
- pernicious anemia** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- persistent flow of lochia** T0661 *Artemisia anomala*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T4234 *Milletia dielsiana*, T5301 *Pterocarpus indicus*.
- persistent flow with abdominal pain** T5701 *Salvia yunnanensis*.
- pertussis** T0318 *Allium sativum*, T0374 *Alstonia scholaris*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0752 *Asparagus officinalis*, T1357 *Chelidonium majus*, T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1789 *Crepis napifera*, T1881 *Cucurbita moschata*, T2191 *Dioscorea bulbifera*, T2268 *Drosera rotundifolia*, T2334 *Elephantopus scaber*, T2510 *Eucalyptus globulus*, T2721 *Ficus microcarpa*, T2738 *Flemingia strobilifera*, T3040 *Gomphrena globosa*, T3344 *Hypericum chinense*, T3646 *Kyllinga brevifolia*, T3769 *Lespedeza bicolor*, T3779 *Leucas aspera*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T4284 *Morinda parvifolia*, T4370 *Nandina domestica*, T4371 *Nandina domestica*, T4937 *Piper betle*, T5100 *Polygonum chinense*, T5173 *Portulaca oleracea*, T5184 *Potentilla kleiniana*, T5721 *Sapindus mukorossi*, T5939 *Shiraia bambusicola*, T6075 *Spilanthes acmella*, T6092 *Stachys palustris*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6132 *Stephania sasakii*, T6206 *Sus scrofa domestica*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6278 *Tagetes erecta*, T6414 *Thalictrum thunbergii*, T6454 *Thymus vulgaris*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6820 *Wikstroemia indica*.
- pharyngitis** T0015 *Abutilon indicum*, T5086 *Polygala sibirica*, T5088 *Polygala tenuifolia*, T6060 *Souliea vaginata*, T6122 *Stephania dielsiana*.
- pharyngolaryngitis** T0137 *Aconitum tanguticum*, T0707 *Arthraxon hispidus*, T0964 *Boenninghausenia albiflora*, T1655 *Conyza blinii*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2334 *Elephantopus scaber*, T2563 *Eupatorium japonicum*, T2715 *Fibraurea recisa*, T2844 *Ganoderma applanatum*, T4215 *Michelia yunnanensis*, T4391 *Nauclea officinalis*, T6095 *Stachytarpheta jamaicensis*, T6214 *Swertia chinensis*, T6454 *Thymus vulgaris*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- phlegm aggregation** T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T5141 *Poncirus trifoliata*.
- phlegm asthma** T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T2051 *Daucus carota* var. *sativa*, T4773 *Peucedanum terebinthaceum*, T4786 *Phasianus colchicus*.
- phlegm congestion and hasty qi** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*.
- phlegm congestion and qi counterflow** T3426 *Inula britannica*, T3433 *Inula japonica*, T4715 *Perilla frutescens*, T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4719 *Perilla frutescens* var. *arguta*, T4722 *Perilla frutescens* var. *crispa*.
- phlegm congestion cough asthma** T5420 *Raphanus sativus*.
- phlegm containing blood** T0749 *Asparagus filicinus*, T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*], T4050 *Magnolia sieboldii*.
- phlegm cough** T4840 *Phyllanthus niruri*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T5531 *Rhus chinensis* [Syn. *Rhus semialata*].
- phlegm fire cough** T1006 *Brassica chinensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*].
- phlegm node** T0847 *Baccharis indica* [Syn. *Pluchea indica*].
- phlegm reversal** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T2274 *Dryobalanops aromatica*.
- phlegm reversal with stupor** T2975 *Gleditsia delavayi*, T2976 *Gleditsia fera*.
- phlegm stagnation and qi counterflow** T1007 *Brassica juncea*.
- phlegm stagnation in chest and diaphragm** T1467 *Citrus aurantium*, T5140 *Poncirus trifoliata*.
- phlegm-damp congestion** T1498 *Citrus medica*, T1520 *Citrus wilsonii*.
- phlegm-damp cough** T5862 *Selaginella involvens*, T6056 *Sorghum vulgare*.
- phlegm-drool and congesting lung** T2125 *Descurainia sophia*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*], T3759 *Lepidium virginicum*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*].
- phlegm-heat cough** T0895 *Benincasa hispida*, T1154 *Camellia sinensis* [Syn. *Thea sinensis*], T2525 *Eucommia muricata*, T2738 *Flemingia strobilifera*, T2787 *Fritillaria hupehensis*, T5419 *Raphanus sativus*, T6511 *Trichosanthes kirilowii*, T6615 *Uncaria gambir*.
- phlegm-heat cough asthma** T0048 *Acanthus ilicifolius*.
- phlegmon** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T3779 *Leucas aspera*, T4080 *Mallotus apelta*.
- phlegm-rheum** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T2597 *Euphorbia lathyris*, T2608 *Euphorbia pekinensis*, T5231 *Prunus persica*, T6819 *Wikstroemia chamaedaphne*.

- phlegm-rheum and accumulation-gathering** T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*.
- phlegm-rheum and edema** T2321 *Ecklonia kurome*, T3678 *Laminaria japonica*, T6640 *Undaria pinnatifida*.
- phlegm-rheum and food retention** T4086 *Malus asiatica*.
- phlegm-rheum and glomus accumulation** T0983 *Bos taurus domesticus*.
- phlegm-rheum asthma fullness** T1858 *Croton tiglium*.
- phlegm-rheum cough asthma** T0313 *Allium chinense*, T0316 *Allium macrostemon*, T0724 *Asarum caulescens*, T0726 *Asarum forbesii*, T0727 *Asarum fukiense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T1501 *Citrus medica* var. *sarcodactylis*, T2589 *Euphorbia helioscopia*, T2599 *Euphorbia lunulata*, T4034 *Magnolia biloba*, T4045 *Magnolia officinalis*, T4550 *Osmanthus fragrans*, T6910 *Zingiber officinale*.
- phlegm-rheum dizziness** T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*], T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T5169 *Poria cocos*.
- phlegm-rheum rapid asthma** T3632 *Knoxia valerianoides*.
- phthisis** T1884 *Cudrania cochinchinensis*, T3810 *Ligularia nelumbifolia*, T4350 *Myriopterion extensum*.
- pineapple poisoning** T3685 *Lannea grandis* [Syn. *Lannea coromandelica*].
- pleuritis** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T2101 *Dendrobium fimbriatum*.
- pneumonia** T0137 *Aconitum tanguticum*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0967 *Boenninghausenia sessilicarpa*, T1869 *Cryptotaenia japonica*, T2298 *Dysosma difformis*, T2357 *Emilia sonchifolia*, T2697 *Ferula borealis*, T3174 *Heliotropium indicum*, T3284 *Houttuynia cordata*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3334 *Hypocoum leptocarpum*, T3709 *Lathyrus pratensis*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4145 *Meconopsis punicea*, T4500 *Onosma paniculatum*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5188 *Potentilla viscosa*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6705 *Verbascum thapsus*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*], T6820 *Wikstroemia indica*.
- pneumonia with cough and asthma** T5687 *Salvia prionitis*.
- pneumonia, bronchitis** T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*].
- poison from smoke** T2048 *Daucus carota*.
- poisoning from almonds** T5217 *Prunus armeniaca*.
- poisoning of fish or crab** T1165 *Canarium album*, T4714 *Perilla frutescens*, T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- poisoning of mushrooms** T3162 *Helicia nilagirica*, T5362 *Pyrus bretschneideri*, T5366 *Pyrus pyrifolia*.
- poisonous bee stings** T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T1880 *Cucurbita moschata*.
- poisonous insect stings** T0107 *Aconitum kongboense*, T1359 *Chenopodium album*, T1436 *Cinnamomum camphora*, T1437 *Cinnamomum camphora*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2435 *Eriocheir sinensis*, T3241 *Hibiscus mutabilis*, T3770 *Lespedeza cuneata*, T3863 *Liparis nervosa*, T4578 *Paederia scandens*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5402 *Radermachera sinica*, T5838 *Scutellaria galericulata*, T5850 *Sedum aizoon*, T5855 *Sedum kamschaticum*, T6731 *Veronicastrum sibiricum*.
- poisonous snake and rabid dog bite** T6116 *Stenoloma chusanum*.
- poisonous snake bite** T0122 *Aconitum pendulum*, T0171 *Adiantum capillus-veneris*, T0172 *Adiantum caudatum*, T0263 *Ajuga decumbens*, T0379 *Alternanthera philoxeroides*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0631 *Aristolochia kaempferi*, T0635 *Aristolochia moupinensis*, T0641 *Aristolochia tuberosa*, T0642 *Aristolochia tubiflora*, T0678 *Artemisia japonica*, T0721 *Arundina chinensis*, T0890 *Begonia limprichtii*, T0941 *Bidens tripartita*, T0947 *Bixa orellana*, T0957 *Blumea balsamifera*, T1106 *Caesalpinia minax*, T1210 *Carpesium abrotanoides*, T1238 *Cassia mimosoides*, T1286 *Celastrus flagellaris*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1372 *Chloranthus serratus*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1644 *Conocephalum conicum*, T1719 *Corydalis incisa*, T1733 *Corydalis racemosa*, T1810 *Croomia japonica*, T1831 *Crotalaria sessiliflora*, T1896 *Cupressus funebris*, T1932 *Cyclea racemosa*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1962 *Cynanchum versicolor*, T2027 *Daphne odora*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2191 *Dioscorea bulbifera*, T2194 *Dioscorea collettii*, T2205 *Dioscorea panthaica*, T2233 *Diploclisia glaucescens*, T2290 *Duchesnea indica*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2348 *Embelia ribes*, T2421 *Erigeron annuus*, T2536 *Euonymus alatus*, T2749 *Fomes officinalis*, T2753 *Formica fusca*, T2826 *Galeola faberi*, T2952 *Gerbera piloselloides*, T3080 *Gymnema sylvestri*, T3123 *Hedyotis auricularia*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3190 *Helminthostachys zeylanica*, T3318 *Hylotelephium mingjianum*, T3340 *Hypericum ascyron*, T3349 *Hypericum erectum*, T3356 *Hypericum japonicum*, T3479 *Isodon amethystoides*, T3646 *Kyllinga brevifolia*, T3764 *Lepisorus thunbergianus*, T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T3998 *Lysimachia christinae*, T4000 *Lysimachia congestiflora*, T4004 *Lysimachia paridiformis*, T4109 *Marchantia polymorpha*, T4203 *Mesua ferrea*,

T4261 *Mollugo pentaphylla*, T4413 *Nepeta cataria*, T4456 *Nymphoides peltatum*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4607 *Panax pseudo-ginseng* var. *japonicus*, T4710 *Pericampylus glaucus*, T4740 *Petasites japonicus*, T4800 *Phlegmariurus fordii*, T4837 *Phyllanthus emblica*, T4840 *Phyllanthus niruri*, T4903 *Pinellia pedatisecta*, T5029 *Plumbago zeylanica*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5099 *Polygonum bistorta*, T5104 *Polygonum hydropiper*, T5109 *Polygonum nodosum*, T5279 *Psychotria serpens*, T5424 *Rauvolfia verticillata*, T5537 *Rhus sylvestris*, T5714 *Sansevieria trifasciata*, T5723 *Sapium sebiferum*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5840 *Scutellaria indica*, T5852 *Sedum bulbiferum*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6075 *Spilanthes acmella*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*], T6121 *Stephania dicentrifera*, T6129 *Stephania japonica*, T6132 *Stephania sasakii*, T6137 *Stephania viridiflavens*, T6367 *Teucrium quadrifarium*, T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*], T6541 *Tripterygium regelii*, T6580 *Tylophora floribunda*, T6582 *Tylophora ovata*, T6588 *Typhonium giganteum*, T6645 *Urena lobata*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6731 *Veronicastrum sibiricum*, T6883 *Zanthoxylum myriacanthum*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].

poisonous snake bites T0267 *Ajuga nipponensis*, T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T0388 *Amaranthus lividus*, T0440 *Anagallis arvensis*, T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T0871 *Barleria lupulina*, T0888 *Beesia calthaefolia*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1371 *Chloranthus japonicus*, T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T3292 *Hunteria zeylanica*, T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T3479 *Isodon amethystoides*, T3932 *Ludwigia octovalvis*, T3996 *Lysimachia candida*, T4121 *Marsilea quadrifolia*, T4221 *Micromelum falcatum*, T4502 *Onychium japonicum* [Syn. *Tricomane japonicum*], T4514 *Ophiorrhiza pumila*, T4549 *Osbeckia chinensis*, T4730 *Peristrophe roxburghiana*, T4884 *Picria felterrae*, T5087 *Polygala telephioides*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5209 *Pronephrum simplex* [Syn. *Meniscium simplex*], T5395 *Rabdosia nervosa*, T5401 *Rabdosia yuennanensis*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5954 *Silene fortunei*, T6087 *Spiranthes sinensis*, T6131 *Stephania longa*, T6135 *Stephania succifera*, T6214 *Swertia chinensis*, T6224 *Swertia kouitchensis*, T6252 *Symplocos chinensis*, T6566 *Tupistra chinensis*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6684 *Vanilla planifolia*, T6767 *Viola yedoensis*, T6861 *Zanthoxylum ailanthoides*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.

poliomyelitis T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium suchuenense*, T2406 *Epimedium wushanense*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4239 *Millettia nitida* var.

hirsutissima.

pollinosis T3936 *Luffa operculata*.

postauricular sore T3726 *Laurus nobilis*.

postlithotripsy urinary tract infection T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*].

postoperative pain T3548 *Ixeris sonchifolia*.

postpartum abdominal pain T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*], T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3877 *Litchi chinensis*, T3981 *Lycopus lucidus*, T4234 *Millettia dielsiana*, T4956 *Piper mullesua*, T5595 *Rubus parviflorius*, T5781 *Schefflera arboricola*, T5893 *Senecio nudicaulis*, T5966 *Siphonostegia chinensis*, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6540 *Tripterygium hypoglaucum*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

postpartum abdominal pain due to stasis obstruction T2545 *Euonymus phellomana*, T3675 *Lagopsis supina*.

postpartum anemia T4311 *Mucuna sempervirens*.

postpartum arthralgia T5586 *Rubia yunnanensis*.

postpartum bleeding T1541 *Claviceps purpurea*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T5173 *Portulaca oleracea*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

postpartum blood dizziness T3649 *Laccifer lacca*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*, T6764 *Vinagar*.

postpartum blood qi distending pain T2280 *Dryopteris chrysocoma*.

postpartum blood qi vacuity T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.

postpartum blood stasis T1108 *Caesalpinia sappan*, T3276 *Homo sapiens*, T3411 *Impatiens balsamina*, T4662 *Parthenocissus tricuspidata*, T5647 *Sagittaria sagittifolia*, T6097 *Staphylea bumalda*.

postpartum blood stasis abdominal pain T0073 *Achyranthes bidentata*, T1769 *Crataegus cuneata*, T1771 *Crataegus kansuensis*, T1772 *Crataegus maximowiczii*, T1780 *Crataegus sanguinea*, T1781 *Crataegus scabrifolia*, T1808 *Crocus sativus*, T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*, T2723 *Ficus pumila*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3659 *Lactuca indica*, T3746 *Leontice robustum*, T3980 *Lycopus lucidus*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T5365 *Pyrus pashia*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T6062 *Sparganium stoloniferum*, T6436 *Thlaspi arvense*, T6551 *Trogopterus xanthipes*; *Pteromys volans*.

postpartum edema T1881 *Cucurbita moschata*.

postpartum fever T2927 *Gentiana rhodantha*.

postpartum flooding T3671 *Lagerstroemia indica*.

postpartum foot edema T4965 *Piper sarmentosum*.

postpartum galactostasis T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T3124 *Hedyotis capitellata*, T3349 *Hypericum erectum*.

postpartum pain T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*].

postpartum persistent flow of lochia T0591 *Ardisia arborescens*, T0600

- Ardisia mamillata* [Syn. *Tinus mamillata*], T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1923 *Cyathula capitata*, T4606 *Panax pseudo-ginseng*, T6683 *Vallisneria spiralis*.
- postpartum scant milk** T1881 *Cucurbita moschata*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1964 *Cynanchum wilfordii* [Syn. *Cynoconum wilfordii*], T1980 *Cyprinus carpio*, T2624 *Euphorbia tirucalli*, T2727 *Ficus simplicissima*, T2837 *Gallus gallus domesticus*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3018 *Glycyrrhiza pallidiflora*, T3240 *Hibiscus esculentus*, T4478 *Octopus vulgaris*, T4505 *Ophiocephalus argus*, T4644 *Parasilurus asotus*, T6357 *Tetrapanax papyriferus*, T6771 *Viscum album*.
- postpartum stasis stagnation** T6560 *Tulipa edulis*.
- postpartum stasis stagnation abdominal pain** T0661 *Artemisia anomala*, T0680 *Artemisia lactiflora*, T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*], T1735 *Corydalis repens*, T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtshchaninovii* f. *yanhusuo*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T2536 *Euonymus alatus*, T2546 *Euonymus sacrosanctus*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T4549 *Osbeckia chinensis*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T5661 *Salvia bowleyana*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- postpartum vacuity taxation** T3628 *Kerria japonica*.
- postpartum vacuity vexation** T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2952 *Gerbera piloselloides*, T6582 *Tylophora ovata*.
- postpartum vacuity weakness** T1961 *Cynanchum thesioides*, T2347 *Embelia parviflora*, T4238 *Milletia nitida*, T5071 *Polygala arillata*, T5407 *Rana nigromaculata*; *Rana plancyi*.
- postpartum wind pain** T0571 *Aralia decaisneana*.
- postpartum wind tetany** T3000 *Glycine max*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6735 *Viburnum dilatatum*.
- pox** T1239 *Cassia nodosa*.
- pox without coming out** T1188 *Caragana chamlagu*.
- precipitate blood** T4402 *Nelumbo nucifera*.
- precipitate blood of large intestine** T5552 *Robinia pseudoacacia*.
- premature graying in beard and hair** T1964 *Cynanchum wilfordii* [Syn. *Cynoconum wilfordii*], T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T3828 *Ligustrum lucidum*, T4288 *Morus alba*, T4432 *Nigella glandulifera*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*, T5107 *Polygonum multiflorum*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5593 *Rubus idaeus*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T5927 *Sesamum indicum* [Syn. *Sesamum orientale*], T6670 *Vaccinium bracteatum*.
- premenstrual abdominal pain** T3877 *Litchi chinensis*.
- prevention of cataracts** T2321 *Ecklonia kurome*, T3678 *Laminaria japonica*, T6640 *Undaria pinnatifida*.
- prevention of hair loss in early stage** T5575 *Rosmarinus officinalis*.
- prevention of influenza and encephalitis b** T4906 *Pinus armandii*, T4916 *Pinus massoniana*.
- prevention of ptosis** T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*.
- prickly heat** T1878 *Cucumis sativus*, T4159 *Melia azedarach*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T5818 *Scoparia dulcis*.
- primary degenerative dementia of alzheimer disease** T2961 *Ginkgo biloba*.
- primary hepatoma** T1904 *Curcuma kwangsiensis*, T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*].
- profuse menstruation** T0170 *Adhatoda vasica*, T0382 *Athaea rosea*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1819 *Crotalaria ferruginea*, T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2614 *Euphorbia pulcherrima*, T4121 *Marsilea quadrifolia*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*], T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5573 *Rosa sericea*, T5605 *Rumex acetosa*, T6540 *Tripterium hypoglauca*, T6551 *Trogoxylum xanthipes*; *Pteromys volans*, T6876 *Zanthoxylum dissitum*.
- profuse pus** T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*.
- prolapse of rectum** T0584 *Arctium lappa*, T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongolicus*, T1425 *Cimicifuga simplex*, T1556 *Clerodendron fragrans*, T2038 *Datura innoxia*, T2039 *Datura innoxia*, T2042 *Datura metel*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2130 *Desmodium gangeticum*, T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2636 *Euscaphis japonica*, T2826 *Galeola faberi*, T3128 *Hedysarum multijugum*, T3245 *Hibiscus syriacus*, T4549 *Osbeckia chinensis*, T4601 *Panax ginseng* [Syn. *Panax schinseng*], T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4636 *Papaver somniferum*, T4637 *Papaver somniferum*, T5137 *Poncirus trifoliata*, T5328 *Punica granatum*, T5529 *Rhodomyrtus tomentosa*, T5547 *Ricinus communis*, T6261 *Syringa pinnatifolia*, T6346 *Terminalia chebula*, T6348 *Terminalia chebula* var. *tomentella*, T6353 *Tetracera asiatica*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*].
- prolapse of rectum (scorch-fry)** T5865 *Selaginella pulvinata*, T5869 *Selaginella tamariscina*.
- prolapse of rectum due to diarrhea** T3329 *Hyoscyamus niger*.
- prolapse of rectum due to enduring diarrhea** T3129 *Hedysarum polybotrys*.
- prolapse of rectum due to qi vacuity fall** T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzoniferolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*.
- prolapse of rectum with bleeding** T4787 *Phellinus igniarius*.
- prolapse of uterus** T0298 *Alectoria vivens*, T1055 *Bupleurum angustissimum*, T1056 *Bupleurum aureum*, T1058 *Bupleurum chaishoui*, T1059 *Bupleurum chinense*, T1065 *Bupleurum*

- longiradiatum*, T1066 *Bupleurum marginatum*, T1067 *Bupleurum marginatum* var. *stenophyllum*, T1072 *Bupleurum scorzonerifolium*, T1073 *Bupleurum sibiricum*, T1075 *Bupleurum smithii* var. *parvifolium*, T1078 *Bupleurum wenchuanense*, T1079 *Bupleurum yinchowense*, T1900 *Curculigo capitulata* [Syn. *Leucjum capitulata*], T2130 *Desmodium gangeticum*, T2540 *Euonymus fortunei*, T2636 *Euscaphis japonica*, T2826 *Galeola faberi*, T2946 *Geranium robertianum*, T3128 *Hedysarum multijugum*, T3270 *Holboellia fargesii*, T4821 *Pholidota articulata*, T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5137 *Poncirus trifoliata*, T5188 *Potentilla viscosa*, T5547 *Ricinus communis*, T5563 *Rosa cymosa*, T5569 *Rosa multiflora*, T6261 *Syringa pinnatifolia*, T6264 *Syzygium buxifolium*.
- prostatitis** T4209 *Michelia alba*.
- prevention of influenza** T0364 *Alsophila spinulosa*.
- pruritus of vulva** T3555 *Jasminum nudiflorum*.
- psoriasis** T0495 *Angelica sinensis*, T0543 *Apis mellifera ligustica*, T0750 *Asparagus gobicus*, T0751 *Asparagus officinalis*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1162 *Camptotheca acuminata*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1799 *Crinum latifolium*, T2130 *Desmodium gangeticum*, T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T2651 *Excoecaria cochinchinensis* var. *viridis*, T2963 *Ginkgo biloba*, T4804 *Phlojodicarpus sibiricus*, T5026 *Plumbagella micrantha*, T5270 *Psoralea corylifolia*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6540 *Tripterygium hypoglaucum*, T6542 *Tripterygium wilfordii*.
- ptosis of anus or uterus** T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T5141 *Poncirus trifoliata*.
- puddal itch** T0249 *Agrimonia pilosa* var. *japonica*, T0853 *Baeckea frutescens*, T1285 *Celastrus angulatus*, T1582 *Cnidium monnieri*, T2049 *Daucus carota*, T2721 *Ficus microcarpa*, T4305 *Mosla dianthera*, T5098 *Polygonum aviculare*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5712 *Sanguisorba officinalis*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6268 *Syzygium samarangense*.
- puddal itch and vaginal discharge** T6476 *Torilis japonica*.
- puddal itch of women** T1046 *Buddleja davidii*.
- pulmonary abscess** T3548 *Ixeris sonchifolia*.
- pulmonary edema** T1589 *Cocculus trilobus* [Syn. *Cocculus sarmmentosus*].
- pulmonary infection** T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*.
- pulmonary welling abscess** T0263 *Ajuga decumbens*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T0895 *Benincasa hispida*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1869 *Cryptotaenia japonica*, T1880 *Cucurbita moschata*, T2020 *Damnacanthus indicus*, T2538 *Euonymus bungeanus*, T2590 *Euphorbia hirta*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2787 *Fritillaria hupehensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3233 *Heteropappus altaicus*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3356 *Hypericum japonicum*, T3547 *Ixeris chinensis*, T3709 *Lathyrus pratensis*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T4506 *Ophioglossum vulgatum*, T4573 *Pachyrrhizus erosus*, T4829 *Phragmites communis*, T5613 *Rumex obtusifolius*, T5773 *Saxifraga stolonifera*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5840 *Scutellaria indica*, T6092 *Stachys palustris*, T6301 *Taraxacum mongolicum*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6367 *Teucrium quadrifarium*, T6431 *Thesium chinense*, T6436 *Thlaspi arvense*.
- pulmonary welling abscess with hacking of pus and blood** T3284 *Houttuynia cordata*, T5011 *Platycodon grandiflorum*.
- purpura** T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T2659 *Fagopyrum esculentum*, T3881 *Lithospermum erythrorhizon*, T5614 *Rumex patientia*.
- purpuric dermatosis** T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*.
- purulence due to bone welling abscess** T5010 *Platycarya strobilacea*.
- purulence in ear top** T1552 *Cleome viscosa*.
- putrefying sore** T0557 *Aquilegia ecalcarata*.
- pyothorax** T3174 *Heliotropium indicum*.
- qi and yin vacuity** T1961 *Cynanchum thesioides*, T5260 *Pseudostellaria heterophylla*.
- qi ascent with vexation and fullness** T1472 *Citrus chachiensis*, T1517 *Citrus tankan*.
- qi bind in chest and diaphragm** T1476 *Citrus erythroa*, T1515 *Citrus tangemna*.
- qi bind pain** T4428 *Nicotiana tabacum*.
- qi blood vacuity depletion** T3615 *Kadsura interior*.
- qi counterflow with asthma** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*.
- qi counterflow with cough and asthma** T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*, T4855 *Physeter catodon*.
- qi counterflow with rapid asthma** T2433 *Eriobotrya japonica*, T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*].
- qi depression** T1171 *Canis familiaris*.
- qi depression and fulminant reversal** T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- qi distention abdominal pain** T1538 *Clausena lansium*, T2521 *Eucalyptus tereticornis*.
- qi distention in chest and abdomen** T1092 *Buxus microphylla* var. *sinica*.
- qi dysentery** T0164 *Actinidia polygama*.
- qi goiter** T0992 *Bos taurus domesticus*; *Bubalus bubalis*.
- qi pain** T3120 *Hedychium spicatum*.
- qi pain in heart and stomach** T0151 *Acronychia pedunculata*, T0356 *Alpinia galanga*, T1943 *Cymbopogon goeringii*, T4530 *Ormosia hosiei*, T5189 *Pothos chinensis*, T5793 *Schisandra henryi*.
- qi stagnation** T5137 *Poncirus trifoliata*.
- qi stagnation abdominal distention** T3619 *Kadsura peltigera* [Syn.

- Kadsura longipedunculata*].
- qi stagnation and blood stasis** T1381 *Choerospondias axillaris*.
- qi stagnation and distention in stomach duct** T0631 *Aristolochia kaempferi*.
- qi stagnation and food accumulation** T6120 *Stephania delavayi* [Syn. *Stephania epigaea*].
- qi stagnation and pain in stomach duct** T6877 *Zanthoxylum dissitum*, T6878 *Zanthoxylum echinocarpum*.
- qi stagnation in chest and diaphragm** T1488 *Citrus junos*.
- qi stagnation stomachache** T1537 *Clausena lansium*, T2194 *Dioscorea colletii*, T2205 *Dioscorea panthaica*, T2505 *Eucalyptus citriodora*.
- qi stagnation with abdominal pain and diarrhea** T1146 *Camellia oleifera*.
- qi strangury** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T6597 *Ulmus pumila*.
- qi vacuity** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T1188 *Caragana chamlagu*, T4610 *Panax quinquefolium*.
- qi vacuity and blood depletion** T0830 *Auricularia auricula*, T0831 *Auricularia delicata*.
- qi vacuity and dysentery** T0989 *Bos taurus domesticus*; *Bubalus bubalis*.
- qi vacuity and general weakness** T4516 *Oplopanax elatus*, T5497 *Rhodiola kirilowii*, T5499 *Rhodiola sacra*.
- qi vacuity and hypodynamia** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T3129 *Hedysarum polybotrys*, T3981 *Lycopus lucidus*.
- qi vacuity and verging on desertion** T4599 *Panax ginseng* [Syn. *Panax schinseng*], T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- qi vacuity edema** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T3129 *Hedysarum polybotrys*, T4577 *Paederia scandens*.
- qi-block deafness** T0463 *Anemone altaica*.
- qi-blood depletion** T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T3279 *Homo sapiens*, T3743 *Lentinus lepideus*, T4682 *Pedicularis muscicola*, T6689 *Ventilago leiocarpa*.
- qi-blood fluids vacuity depletion** T4600 *Panax ginseng* [Syn. *Panax schinseng*].
- qi-blood stagnation** T6062 *Sparganium stoloniferum*.
- rabid dog bite** T0440 *Anagallis arvensis*, T1491 *Citrus limon*, T1495 *Citrus limonia*, T1963 *Cynanchum wallichii*, T2036 *Datura innoxia*, T2041 *Datura metel*, T2046 *Datura stramonium*, T3287 *Huechys sanguinea*, T3953 *Lycianthes biflora*, T4008 *Lytta caraganae*, T4423 *Nicandra physaloides*, T5289 *Pteris dactylina*, T5401 *Rabdosia yuennanensis*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T6424 *Thermopsis alpina*, T6566 *Tupistra chinensis*.
- rachitis in children** T2841 *Gallus gallus domesticus*, T4536 *Orobanchae coerulea*.
- raynaud's disease** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*.
- recurrent neuritis** T5848 *Securinega suffruticosa*.
- red and white dysentery** T0250 *Agrimonia pilosa* var. *japonica*, T0941 *Bidens tripartita*, T1145 *Camellia japonica*, T1184 *Capsella bursa-pastoris*, T2267 *Drosera peltata* var. *lunata*, T2993 *Gloeostereum incarnatum*, T3244 *Hibiscus syriacus*, T4655 *Paris tetraphylla*.
- red and white dysentery (root)** T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*].
- red and white turbidity** T3242 *Hibiscus rosa-sinensis*.
- red and white vaginal discharge** T0301 *Aleuritopteris argentea*, T0382 *Althaea rosea*, T0999 *Bougainvillea glabra*, T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellata*], T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T3245 *Hibiscus syriacus*, T3615 *Kadsura interior*, T3645 *Kummerowia striata*, T4252 *Mirabilis jalapa*, T4662 *Parthenocissus tricuspidata*, T4670 *Patrinia heterophylla*, T4672 *Patrinia scabiosaefolia*, T4673 *Patrinia scabra*, T4676 *Patrinia villosa*, T4777 *Phalaris arundinacea*, T5118 *Polygonum suffultum*, T5327 *Punica granatum*, T5329 *Punica granatum*, T5614 *Rumex patientia*, T5671 *Salvia digitaloides*, T5712 *Sanguisorba officinalis*, T6226 *Swertia mileensis*, T6860 *Zanthoxylum ailanthoides*.
- red bayberry sore** T3300 *Hydnocarpus anthelminticus*.
- red dysentery** T0266 *Ajuga macrocarpa*, T5099 *Polygonum bistorta*.
- red dysentery and abdominal pain** T5181 *Potentilla chinensis*.
- red dysentery and bloody stool** T4127 *Matteuccia struthiopteris*.
- red eyes** T0540 *Apis cerana*, T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0897 *Berberis amurensis*, T0912 *Berberis poiretii*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1311 *Centella asiatica*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1746 *Corydalis taliensis*, T1758 *Cotinus coggygria*, T2290 *Duchesnea indica*, T2517 *Eucalyptus robusta*, T2839 *Gallus gallus domesticus*, T2902 *Gentiana algida*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3423 *Indigofera tinctoria*, T3557 *Jasminum sambac*, T3829 *Ligustrum robustum*, T4186 *Mentha piperita*, T4190 *Mentha spicata*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5413 *Ranunculus cantoniensis*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5605 *Rumex acetosa*, T5775 *Scabiosa comosa*, T6076 *Spinacia oleracea*, T6139 *Sterculia lychnophora*, T6206 *Sus scrofa domestica*, T6301 *Taraxacum mongolicum*, T6580 *Tylophora floribunda*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6799 *Vitis vinifera*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- red eyes and clouded vision** T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*.
- red eyes and distending pain** T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1981 *Cyprinus carpio*.
- red eyes and eye screen** T2407 *Equisetum arvense*, T2409 *Equisetum palustre*, T5449 *Reineckea carnea*, T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*, T6497 *Tribulus terrestris*.

- red eyes and itch-pain** T1552 *Cleome viscosa*.
- red eyes and profuse eye discharge** T4471 *Ocimum basilicum*.
- red eyes and sore pharynx** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- red eyes and tearing** T3635 *Koelreuteria paniculata*.
- red eyes with gall** T0190 *Adonis sutchuenensis*, T0263 *Ajuga decumbens*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T0805 *Astragalus sinicus*, T0806 *Astragalus sinicus*, T0852 *Bacopa monniera*, T0888 *Beesia calthaefolia*, T0906 *Berberis julianae*, T0916 *Berberis thunbergii*, T0920 *Berberis wilsonae*, T1032 *Broussonetia papyrifera*, T1048 *Buddleja officinalis*, T1100 *Caesalpinia crista*, T1184 *Capsella bursa-pastoris*, T1240 *Cassia obtusifolia*, T1242 *Cassia occidentalis*, T1247 *Cassia sophora*, T1250 *Cassia tora*, T1296 *Celosia argentea*, T1393 *Chrysanthemum indicum*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*], T1733 *Corydalis racemosa*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2279 *Dryopteris championii*, T2340 *Elsholtzia bodinieri*, T2757 *Forsythia viridissima*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*], T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T2941 *Gentianopsis paludosa*, T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T3040 *Gomphrena globosa*, T3122 *Hedyotis acutangula*, T3241 *Hibiscus mutabilis*, T3334 *Hypocoum leptocarpum*, T3356 *Hypericum japonicum*, T3361 *Hypericum perforatum*, T3564 *Juglans mandshurica*, T3636 *Koelreuteria paniculata*, T3675 *Lagopsis supina*, T3770 *Lespedeza cuneata*, T3990 *Lygodium japonicum*, T4055 *Mahonia bealei*, T4056 *Mahonia bealei*, T4060 *Mahonia confusa*, T4062 *Mahonia fortunei*, T4063 *Mahonia fortunei*, T4064 *Mahonia gracilipes*, T4066 *Mahonia japonica*, T4067 *Mahonia japonica*, T4072 *Mahonia shenii*, T4261 *Mollugo pentaphylla*, T4369 *Nandina domestica*, T4370 *Nandina domestica*, T4506 *Ophioglossum vulgatum*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T4840 *Phyllanthus niruri*, T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*], T5176 *Potamogeton natans*, T5184 *Potentilla kleiniana*, T5193 *Pratia nummularia*, T5214 *Prunella vulgaris*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5690 *Salvia roborowskii*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5861 *Selaginella doederleinii*, T6034 *Sophora japonica*, T6372 *Thalictrum acutifolium*, T6375 *Thalictrum baicalense*, T6376 *Thalictrum cultratum*, T6378 *Thalictrum delavayi*, T6381 *Thalictrum faberi*, T6385 *Thalictrum flavum*, T6386 *Thalictrum foetidum*, T6387 *Thalictrum foliolosum*, T6388 *Thalictrum fortunei*, T6389 *Thalictrum glandulosissimum*, T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], T6402 *Thalictrum omeiense*, T6403 *Thalictrum petaloideum*, T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], T6426 *Thermopsis chinensis*, T6436 *Thlaspi arvense*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6555 *Tropaeolum majus*, T6767 *Viola yedoensis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.
- red eyes with pain due to liver fire** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisekala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].
- red face and eyes** T0544 *Apium graveolens*.
- red swelling of clove sore** T3953 *Lycianthes biflora*.
- red swollen breast** T5608 *Rumex dentatus*.
- red swollen due to knocks and falls** T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].
- red swollen in throat** T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2340 *Elsholtzia bodinieri*, T5199 *Primula malacoides*.
- red swollen of throat** T4730 *Peristrophe roxburghiana*.
- red swollen sore and welling abscess** T4760 *Peucedanum japonicum*, T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*].
- reduced food intake** T0387 *Amaranthus caudatus*, T1469 *Citrus aurantium* var. *amara*, T2837 *Gallus gallus domesticus*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4545 *Oryza sativa*.
- reduced food intake and diarrhea** T0535 *Antidesma bunius*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- reduced food intake and sloppy stool** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T2246 *Dolichos lablab*, T3129 *Hedysarum polybotrys*.
- reduced food intake due to spleen vacuity** T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*, T4436 *Nitraria tangutorum*, T4450 *Nuphar pumilum*, T4599 *Panax ginseng* [Syn. *Panax schinseng*], T5169 *Poria cocos*, T6916 *Ziziphus jujuba*, T6917 *Ziziphus jujuba* var. *inermis*.
- reduced food intake with abdominal distention** T0311 *Allium cepa*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T5938 *Setaria italica*, T6878 *Zanthoxylum echinocarpum*.
- reduced food intake with dry mouth** T1353 *Changium smyrnioides*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- reduced food intake with dry retching** T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*.
- reduced food intake with fatigue** T2727 *Ficus simplicissima*.
- reduced food intake with nausea and vomiting** T5572 *Rosa rugosa*.
- reduced food intake with vomiting** T4351 *Myristica fragrans*.
- reduced sleep** T3192 *Hemerocallis citrina*.

- renal colic** T0825 *Atropa belladonna*.
- replete body and constipation** T2650 *Excoecaria agallocha*.
- repletion heat constipation** T0334 *Aloe arborescens* var. *natalensis*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- resolve liquor toxin** T0834 *Averrhoa carambola*, T4088 *Malus pumila*.
- restlessness** T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T4400 *Nelumbo nucifera*.
- retching blood** T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*.
- retching counterflow** T1106 *Caesalpinia minax*, T1217 *Carum carvi*, T1467 *Citrus aurantium*, T1476 *Citrus erythrosa*, T1515 *Citrus tangemna*, T2840 *Gallus gallus domesticus*, T5140 *Poncirus trifoliata*.
- retching counterflow and abdominal pain** T6561 *Tulipa gesneriana*.
- retching counterflow and reduced food intake** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T3819 *Ligusticum brachylobum*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*.
- retching with counterflow** T4618 *Panicum miliaceum*.
- retention of afterbirth** T0001 *Abelmoschus manihot*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- retention of lochia** T1215 *Carthamus tinctorius*, T2536 *Euonymus alatus*.
- retention of placenta** T0073 *Achyranthes bidentata*, T1174 *Cannabis sativa*, T1924 *Cyathula officinalis*, T5647 *Sagittaria sagittifolia*.
- retinal insufficiency syndrome** T2964 *Ginkgo biloba*.
- retinitis** T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- reversal cold of limbs** T0098 *Aconitum geniculatum*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- reverting yin headache** T2644 *Evodia rutaecarpa*, T2646 *Evodia rutaecarpa* var. *officinalis*.
- rheumatic arthritis** T0154 *Acroptilon repens*, T0281 *Alangium chinense*, T0285 *Alangium platanifolium*, T0295 *Albizzia odoratissima*, T0539 *Apis cerana*, T0541 *Apis cerana*, T0572 *Aralia elata*, T1545 *Clematis chinensis*, T1553 *Clerodendranthus spicatus*, T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1812 *Crossostephium chinense*, T1943 *Cymbopogon goeringii*, T1959 *Cynanchum paniculatum*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2538 *Euonymus bungeanus*, T2736 *Fissistigma polyanthum*, T2766 *Fraxinus bungeana*, T2767 *Fraxinus chinensis*, T2774 *Fraxinus paxiana*, T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*], T2779 *Fraxinus stylosa*, T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*], T3371 *Hypocrella bambusae*, T3594 *Juniperus rigida*, T3646 *Kyllinga brevifolia*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T4810 *Phlomis mongolica*, T5110 *Polygonum orientale*, T5207 *Prismatomeris tetrandra*, T5413 *Ranunculus cantoniensis*, T5767 *Saussurea pulchella*, T5799 *Schisandra rubriflora*, T5860 *Selaginella davidii*, T6075 *Spilanthes acmella*, T6129 *Stephania japonica*, T6155 *Strophanthus divaricatus*, T6540 *Tripterygium hypoglaucum*, T6542 *Tripterygium wilfordii*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], T6820 *Wikstroemia indica*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- rheumatic endocarditis** T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*.
- rheumatic heart disease** T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*].
- rheumatic pain in joints** T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*], T0629 *Aristolochia heterophylla*, T4975 *Piptanthus nanus*.
- rheumatic pain in legs** T1586 *Cocculus laurifolius*.
- rheumatis** T3106 *Harpagophytum procumbens*, T3394 *Ilex paraguariensis*.
- rheumatism** T0354 *Alpinia chinensis*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1555 *Clerodendron fortunatum*, T4690 *Pelargonium graveolens*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T6788 *Vitex negundo*.
- rheumatism numbness** T0099 *Aconitum gymnantrum*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T3411 *Impatiens balsamina*, T3414 *Impatiens sicutifer*, T5184 *Potentilla kleiniana*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5993 *Solanum capsicastrum*.
- rheumatoid arthritis** T2736 *Fissistigma polyanthum*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6541 *Tripterygium regelii*, T6542 *Tripterygium wilfordii*.
- ricketts** T3742 *Lentinus edodes*.
- rigidity of neck** T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- ringing in head** T1154 *Camellia sinensis* [Syn. *Thea sinensis*].
- roundworm reversal with abdominal pain** T5228 *Prunus mume*, T5719 *Sapindus mukorossi*.
- rumbling intestines and diarrhea** T4944 *Piper cubeba*, T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*].
- running piglet** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*].
- salpingitis** T2715 *Fibraurea recisa*.
- sand** T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T5119 *Polygonum thunbergii*, T6015 *Solanum torvum*.
- sand and painful distention in stomach duct and abdomen** T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*].
- sand distention and abdominal pain** T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*].
- sand distention and vomiting diarrhea** T2505 *Eucalyptus citriodora*.
- sand foulness** T1986 *Cyrtomium fortunei*.
- sand foulness retching** T0472 *Anethum graveolens*.
- sand qi** T2746 *Foeniculum vulgare*, T6787 *Vitex negundo*.
- sand qi abdominal pain** T0726 *Asarum forbesii*, T1153 *Camellia sinensis* var. *assamica*, T1311 *Centella asiatica*, T2721 *Ficus microcarpa*, T4240 *Milletia pachycarpa*, T5220 *Prunus davidiana*, T5230 *Prunus persica*, T5232 *Prunus persica*.
- sand strangury** T0155 *Actinidia arguta*, T0759 *Aspidistra elatior*, T1007

- Brassica juncea*, T1311 *Centella asiatica*, T1907 *Curcuma wengujin*, T2134 *Desmodium styracifolium*, T5231 *Prunus persica*.
- sarcoma** T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*].
- scab and lai** T0610 *Argemone mexicana*, T0696 *Artemisia sieversiana*, T1197 *Cardiospermum halicacabum*, T1251 *Cassythia filiformis*, T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1719 *Corydalis incisa*, T2897 *Gelsemium elegans*, T3687 *Lantana camara*, T4937 *Piper betle*, T5143 *Pongamia pinnata*, T5401 *Rabdosia yunnanensis*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*].
- scab and lichen** T0012 *Abrus precatorius*, T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T0215 *Agave americana*, T0295 *Albizia odoratissima*, T0297 *Alchornea trewioides*, T0299 *Aleurites cordata* [Syn. *Aleurites fordii*], T0364 *Alsophila spinulosa*, T0463 *Anemone altaica*, T0516 *Anser cygnoides domestica*, T0752 *Asparagus officinalis*, T0805 *Astragalus sinicus*, T0853 *Baeckea frutescens*, T1311 *Centella asiatica*, T1359 *Chenopodium album*, T1361 *Chenopodium ambrosioides*, T1372 *Chloranthus serratus*, T1388 *Chrysanthemum cinerariaefolium*, T1389 *Chrysanthemum coccineum*, T1437 *Cinnamomum camphora*, T1582 *Cnidium monnieri*, T1594 *Cocos nucifera*, T1624 *Colocasia antiquorum*, T1641 *Conioselinum vaginatum*, T1733 *Corydalis racemosa*, T1823 *Crotalaria juncea*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2510 *Eucalyptus globulus*, T2517 *Eucalyptus robusta*, T2580 *Euphorbia antiquorum*, T2599 *Euphorbia lunulata*, T2602 *Euphorbia nematocypa*, T2612 *Euphorbia prolifera*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T2999 *Glycine max*, T3057 *Gossypium herbaceum*, T3245 *Hibiscus syriacus*, T3300 *Hydnocarpus anthelminticus*, T3420 *Incarvillea sinensis*, T3423 *Indigofera tinctoria*, T3560 *Jatropha curcas*, T3671 *Lagerstroemia indica*, T3709 *Lathyrus pratensis*, T3725 *Laurus nobilis*, T3726 *Laurus nobilis*, T3758 *Lepidium sativum*, T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*], T4104 *Manihot esculenta*, T4172 *Melilotus suaveolens*, T4240 *Milletia pachycarpa*, T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4428 *Nicotiana tabacum*, T4505 *Ophiocephalus argus*, T4520 *Opuntia ficus-indica*, T4562 *Oxalis acetosella*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4572 *Pachyrhizus erosus*, T4656 *Parmelia saxatilis*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T4690 *Pelargonium graveolens*, T4799 *Philydrum lanuginosum*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T4917 *Pinus massoniana*, T5028 *Plumbago indica*, T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*], T5308 *Pterocarya stenoptera*, T5368 *Python molurus bivittatus*, T5414 *Ranunculus japonicus*, T5428 *Rauwolfia yunnanensis*, T5457 *Rhamnus davurica*, T5483 *Rhinacanthus nasutus*, T5537 *Rhus sylvestris*, T5605 *Rumex acetosa*, T5607 *Rumex crispus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T5723 *Sapium sebiferum*, T5977 *Smilax glabra*, T5980 *Smilax menispermoides*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6048 *Sophora viciifolia*, T6105 *Stellera chamaejasme*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6155 *Strophanthus divaricatus*, T6219 *Swertia erythrosticta*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6429 *Thermopsis lupinoides*, T6499 *Tribulus terrestris*, T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*, T6788 *Vitex negundo*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6862 *Zanthoxylum ailanthoides*.
- scab and lichen with bald sores** T5156 *Populus nigra* var. *thevestina*.
- scab and lichen with itching** T0749 *Asparagus filicinus*, T1435 *Cinnamomum camphora*, T4156 *Melia azedarach*, T4162 *Melia toosendan*, T5029 *Plumbago zeylanica*.
- scab and lichen with itching sores** T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*].
- scab and lichen with sore toxin** T1436 *Cinnamomum camphora*, T6217 *Swertia davidii*.
- scab and lichen with swelling of sores** T1357 *Chelidonium majus*.
- scab and lichen with welling abscess and flat abscess** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*.
- scab and lichen; bark: dysentery** T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*].
- scab sore** T0142 *Acorus calamus*, T0145 *Acorus gramineus*, T1264 *Catalpa ovata*, T1556 *Clerodendron fragrans*, T1562 *Clerodendron trichotomum*, T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*], T2024 *Daphne genkwa*, T2267 *Drosera peltata* var. *lunata*, T2387 *Epilobium hirsutum*, T2479 *Erythrina variegata* var. *orientalis*, T2521 *Eucalyptus tereticornis*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2649 *Evolvulus alsinoides*, T3407 *Illicium simonsii*, T3570 *Juglans regia*, T3630 *Kleinhovia hospita*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T4253 *Mirabilis jalapa*, T4358 *Myroxylon pereirae*, T4432 *Nigella glandulifera*, T4830 *Phryma leptostachya*, T4890 *Pieris japonica*, T5298 *Pteris vittata*, T5455 *Rhamnus crenata*, T5528 *Rhodomyrtus tomentosa*, T5595 *Rubus parviflorus*, T5998 *Solanum dulcamara*, T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6542 *Tripterygium wilfordii*.
- scabies** T1278 *Cedrela sinensis*.
- scalds** T0175 *Adiantum pedatum*, T0560 *Arachis hypogaea*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0661 *Artemisia anomala*, T0916 *Berberis thunbergii*, T0922 *Berchemia polyphylla* var. *leioclada*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T0982 *Bos taurus domesticus*, T1043 *Bryophyllum pinnatum*, T1145 *Camellia japonica*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], T1529 *Cladonia verticillata*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisekala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1867 *Cryptomeria fortunei*, T1880 *Cucurbita moschata*, T1896 *Cupressus funebris*, T2279 *Dryopteris championii*, T2387 *Epilobium hirsutum*, T2517 *Eucalyptus robusta*, T2659 *Fagopyrum esculentum*, T2840 *Gallus gallus domesticus*, T2857 *Garcinia hanburyi*, T3244 *Hibiscus syriacus*, T3295 *Huperzia*

serrata [Syn. *Lycopodium serratum*], T3318 *Hylotelephium mingjinianum*, T3340 *Hypericum ascyron*, T3363 *Hypericum sampsonii*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3738 *Lemna minor*, T3830 *Ligustrum sinense*, T3881 *Lithospermum erythrorhizon*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4055 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4203 *Mesua ferrea*, T4500 *Onosma paniculatum*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T4544 *Oryza sativa*, T4618 *Panicum miliaceum*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4956 *Piper mullesua*, T5308 *Pterocarya stenoptera*, T5419 *Raphanus sativus*, T5529 *Rhodomlyrtus tomentosa*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5562 *Rosa chinensis*, T5567 *Rosa laevigata*, T5569 *Rosa multiflora*, T5613 *Rumex obtusifolius*, T5714 *Sansevieria trifasciata*, T5860 *Selaginella davidii*, T5862 *Selaginella involvens*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T5938 *Setaria italica*, T6017 *Solanum tuberosum*, T6028 *Sophora alopecuroides*, T6048 *Sophora viciifolia*, T6205 *Sus scrofa*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6745 *Vicia faba*, T6746 *Vicia faba*.

scalp infection T2023 *Daphne genkwa*.

scant breast milk T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*, T0559 *Arachis hypogaea*, T1191 *Caragana sinica*, T1598 *Codonopsis convolvulacea*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1961 *Cynanchum thesioides*, T2717 *Ficus carica*, T3077 *Gymnadenia conopsea*, T3279 *Homo sapiens*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T4206 *Metaplexis japonica*, T4432 *Nigella glandulifera*, T4436 *Nitraria tangutorum*, T4573 *Pachyrrhizus erosus*, T4983 *Pisum sativum*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T6507 *Trichosanthes cucumeroides*.

scant fluid and thirst T4088 *Malus pumila*, T5229 *Prunus persica*.

scant urine T1035 *Broussonetia papyrifera*.

scant urine in children T6008 *Solanum nigrum*.

scant urine with edema T0553 *Apocynum venetum*, T1633 *Commelina communis*, T1878 *Cucumis sativus*, T2134 *Desmodium styracifolium*, T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], T3754 *Leonurus sibiricus*, T5169 *Poria cocos*.

scar T3395 *Ilex pedunculosa*.

scarlatina T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].

schizophrenia T1525 *Cladonia fallax*, T5848 *Securinega suffruticosa*.

sciatica T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T1727 *Corydalis mucronifera*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2723 *Ficus pumila*, T5279 *Psychotria serpens*, T6129 *Stephania japonica*, T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*],

T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].

scorpion sting T0382 *Althaea rosea*, T6551 *Trogopterus xanthipes*; *Pteromys volans*.

scourge epidemic with fever T0705 *Artemisia vestita*.

scratch T0827 *Aucuba chinensis* ssp. *omeiensis*.

scrofula T0048 *Acanthus ilicifolius*, T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*], T0122 *Aconitum pendulum*, T0130 *Aconitum sinomontanum*, T0171 *Adiantum capillus-veneris*, T0175 *Adiantum pedatum*, T0275 *Akebia quinata*, T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*], T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0446 *Anaphalis margaritacea*, T0468 *Anemone hupehensis*, T0471 *Anemone rivularis*, T0567 *Aralia armata*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0643 *Aristolochia versicolor*, T0726 *Asarum forbesii*, T0941 *Bidens tripartita*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1254 *Castanea mollissima*, T1385 *Chorda filum*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1709 *Corydalis bungeana*, T1787 *Cremastra appendiculata*, T1871 *Cucubalus baccifer*, T1967 *Cynoglossum amabile*, T1986 *Cyrtomium fortunei*, T1994 *Daemonorops draco*, T2024 *Daphne genkwa*, T2139 *Dianella ensifolia*, T2158 *Dichroa febrifuga*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T2253 *Dracaena cochinchinensis*, T2267 *Drosera peltata* var. *lunata*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2316 *Echinops grijsii*, T2317 *Echinops ritro*, T2321 *Ecklonia kurome*, T2365 *Enteromorpha clathrata*, T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*, T2432 *Eriobotrya japonica*, T2525 *Eucheuma muricatum*, T2584 *Euphorbia ebracteolata*, T2585 *Euphorbia esula*, T2587 *Euphorbia fischeriana*, T2589 *Euphorbia helioscopia*, T2599 *Euphorbia lunulata*, T2602 *Euphorbia nematocypa*, T2608 *Euphorbia pekinensis*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2658 *Fagopyrum esculentum*, T2691 *Farfugium japonicum*, T2697 *Ferula borealis*, T2718 *Ficus carica*, T2756 *Forsythia suspensa*, T2757 *Forsythia viridissima*, T2761 *Fortunella margarita*, T2787 *Fritillaria hupehensis*, T2790 *Fritillaria pallidiflora*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T2800 *Fritillaria walujewii*, T2897 *Gelsemium elegans*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3080 *Gymnema sylvestre*, T3163 *Helicteres angustifolia*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3201 *Hemiphragma heterophyllum*, T3287 *Huechys sanguinea*, T3443 *Iphigenia indica*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3674 *Laggera alata*, T3678 *Laminaria japonica*, T3680 *Lamium amplexicaule*, T3736 *Lemmaphyllum microphyllum*, T3815 *Ligularia stenocephala*, T3847 *Lindera angustifolia*, T3876 *Litchi chinensis*, T3988 *Lycoris squamigera*, T4005 *Lysionotus pauciflorus*, T4008 *Lytta caraganae*, T4091 *Malva sylvestris*, T4106 *Manis pentadactyla*, T4121 *Marsilea quadrifolia*, T4172 *Melilotus*

- suaveolens*, T4173 *Melilotus suaveolens*, T4182 *Menispermum dauricum*, T4206 *Metaplexis japonica*, T4265 *Momordica cochinchinensis*, T4338 *Mylabris phalerata*; *Mylabris cichorii*, T4368 *Nandina domestica*, T4370 *Nandina domestica*, T4482 *Oenanthe javanica*, T4555 *Ostrea rivularis*; *Ostrea talienwhanensis*; *Ostrea gigas*, T4577 *Paederia scandens*, T4730 *Peristrophe roxburghiana*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T4835 *Phyllanthus emblica*, T4851 *Physalis minima*, T4903 *Pinellia pedatisecta*, T4917 *Pinus massoniana*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5099 *Polygonum bistorta*, T5103 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5107 *Polygonum multiflorum*, T5109 *Polygonum nodosum*, T5182 *Potentilla discolor*, T5214 *Prunella vulgaris*, T5214 *Prunella vulgaris*, T5220 *Prunus davidiana*, T5226 *Prunus mume*, T5232 *Prunus persica*, T5295 *Pteris multifida*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5401 *Rabdosia yuennanensis*, T5415 *Ranunculus sceleratus*, T5457 *Rhamnus davurica*, T5466 *Rhaponticum uniflorum*, T5550 *Ricinus communis*, T5562 *Rosa chinensis*, T5592 *Rubus hirsutus*, T5646 *Sagina japonica* [Syn. *Spergula japonica*], T5740 *Sargassum vachellianum*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5840 *Scutellaria indica*, T5862 *Selaginella involvens*, T5925 *Sesamum indicum* [Syn. *Sesamum orientale*], T5977 *Smilax glabra*, T5978 *Smilax glauco-china*, T5980 *Smilax menispermoides*, T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T5989 *Solanum aculeatissimum*, T6014 *Solanum surattense*, T6018 *Solanum verbascifolium*, T6105 *Stellera chamaejasme*, T6257 *Syngnathus acus*, T6301 *Taraxacum mongolicum*, T6431 *Thesium chinense*, T6497 *Tribulus terrestris*, T6541 *Tripterygium regelii*, T6560 *Tulipa edulis*, T6588 *Typhonium giganteum*, T6640 *Undaria pinnatifida*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6732 *Vespertilio superans*, T6766 *Viola tricolor*, T6767 *Viola yedoensis*, T6820 *Wikstroemia indica*, T6884 *Zanthoxylum nitidum*.
- scrofula (juice)** T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*].
- scrofula in early stage** T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*.
- scrofula with phlegm node** T0971 *Bolbostemma paniculatum*, T1084 *Buthus martensi*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- scrofula with ulceration** T5817 *Scolopendra subspinipes mutilans*.
- scrotal damp itch** T1582 *Cnidium monnieri*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*.
- scrotal eczema** T2902 *Gentiana algida*, T3245 *Hibiscus syriacus*, T3547 *Ixeris chinensis*, T4690 *Pelargonium graveolens*, T4836 *Phyllanthus emblica*, T5010 *Platycarya strobilacea*, T6742 *Vicia amoena*.
- scrotal enlargement** T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*].
- scrotal wind** T3306 *Hydrangea paniculata*, T3569 *Juglans regia*.
- scurvy** T3394 *Ilex paraguariensis*, T4388 *Nasturtium officinale*.
- seasonal diaphragm qi** T0599 *Ardisia japonica*.
- seasonal epidemic fire toxin** T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*.
- seeper in chest and abdomen** T2608 *Euphorbia pekinensis*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*].
- seminal efflux** T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T3077 *Gymnadenia conopsea*.
- senile bronchitis** T3926 *Loropetalum chinense*.
- senile cough and asthma** T0752 *Asparagus officinalis*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*.
- senile dementia** T5848 *Securinega suffruticosa*.
- senile nocturia** T0529 *Anthriscus sylvestris*.
- senile vacuity weakness** T0541 *Apis cerana*.
- senile vacuity weakness headache** T1786 *Cremanthodium ellisii*.
- septicemia** T0541 *Apis cerana*, T1337 *Cervus nippon*; *Cervus elaphus*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3085 *Gynostemma pentaphyllum*, T3409 *Illicium verum*, T3828 *Ligustrum lucidum*, T4308 *Mucuna birdwoodiana*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6066 *Spatholobus suberectus*, T6119 *Stephania cepharantha*.
- sequel of poliomyelitis** T1567 *Clerodendrum mandarinorum*, T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T2736 *Fissistigma polyanthum*, T3976 *Lycopodium obscurum*, T5848 *Securinega suffruticosa*, T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*.
- shank sore** T0299 *Aleurites cordata* [Syn. *Aleurites fordii*], T1437 *Cinnamomum camphora*, T2732 *Firmiana simplex*, T6747 *Vicia faba*.
- schizophrenia** T6819 *Wikstroemia chamaedaphne*.
- shedding of eyebrow and hair** T1175 *Cannabis sativa*.
- shock** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T1468 *Citrus aurantium*, T1521 *Citrus wilsonii*, T5141 *Poncirus trifoliata*.
- shock due to acute infectious diseases** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].
- short voidings of reddish urine** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0932 *Betula luminifera*, T1878 *Cucumis sativus*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3192 *Hemerocallis citrina*, T3270 *Holboellia fargesii*, T5098 *Polygonum aviculare*, T6357 *Tetrapanax papyriferum*.
- shortness of breath and hypodynamia** T5497 *Rhodiola kirilowii*, T5499 *Rhodiola sacra*.
- shortness of breath and palpitation** T3128 *Hedysarum multijugum*.
- shortness of breath and spontaneous sweating** T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*.
- shoulder swelling** T2243 *Dodonaea viscosa*.
- silicosis** T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*.
- sinew and bone numbness** T3796 *Libanotis buchtormensis*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.
- sinew and bone wound** T0170 *Adhatoda vasica*, T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*, T6138 *Sterculia foetida*.
- sinew and bone wound with swelling pain** T1254 *Castanea mollissima*.

- skin cancer** T4130 *Maytenus chuchuhuasca*.
- skin chap and pain** T0543 *Apis mellifera ligustica*.
- skin diseases** T0495 *Angelica sinensis*, T3082 *Gynocardia odorata*, T3845 *Linaria vulgaris*, T4804 *Phlojodicarpus sibiricus*, T5726 *Saponaria officinalis*, T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*], T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*], T6713 *Vernonia anthelmintica*.
- skin heat papules** T4261 *Mollugo pentaphylla*.
- skin intractable ulcer** T2650 *Excoecaria agallocha*.
- skin lichen** T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T1936 *Cyclocarya paliurus*, T2617 *Euphorbia royleana*, T3600 *Juniperus taiwaniana*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T5719 *Sapindus mukorossi*.
- skin lichen lai** T3308 *Hydrangea umbellata*.
- skin numbness** T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*].
- skin scabies** T5411 *Randia spinosa*.
- skin sores** T4170 *Melilotus albus*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.
- skin suppurations** T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*.
- sleepless** T0644 *Armillaria mellea*, T5701 *Salvia yunnanensis*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*], T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*].
- sleepless and amnesia** T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*], T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*].
- sleepless and vexation** T4121 *Marsilea quadrifolia*.
- sloppy stool** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*].
- sloppy stool and diarrhea** T5169 *Poria cocos*.
- slowness to work** T3199 *Hemibarbus labeo*.
- snake bite** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0595 *Ardisia crispa*, T0601 *Ardisia pusilla*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0726 *Asarum forbesii*, T0730 *Asarum sagittarioides*, T0977 *Bombyx mori*, T1084 *Buthus martensi*, T1197 *Cardiospermum halicacabum*, T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1450 *Cirsium lineare*, T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1958 *Cynanchum otophyllum*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T2555 *Eupatorium chinense*, T2563 *Eupatorium japonicum*, T2598 *Euphorbia lathyris*, T2691 *Farfugium japonicum*, T2927 *Gentiana rhodantha*, T3002 *Glycine max*, T3363 *Hypericum sampsonii*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T3997 *Lysimachia capillipes*, T4178 *Melodinus hemsleyanus*, T4335 *Mussaenda pubescens*, T4428 *Nicotiana tabacum*, T4642 *Parameria laevigata*, T4838 *Phyllanthus flexuosus*, T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5102 *Polygonum cuspidatum*, T5428 *Rauvolfia yunnanensis*, T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5721 *Sapindus mukorossi*, T5724 *Sapium sebiferum*, T5857 *Sedum sarmentosum*, T5870 *Selaginella uncinata*, T6444 *Thunbergia grandiflora*, T6551 *Trogopterus xanthipes*; *Pteromys volans*, T6831 *Woodwardia orientalis*, T6834 *Wrightia tomentosa*, T6889 *Zanthoxylum podocarpum*.
- snake bite or scorpion sting**^[5509] T3200 *Hemidesmus indicus*.
- snake or dog bite** T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*].
- snake or insect bites** T0045 *Acanthopanax trifoliatum*, T0069 *Achillea wilsoniana*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0318 *Allium sativum*, T0389 *Amaranthus tricolor*, T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0853 *Baeckea frutescens*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0938 *Bidens bipinnata*, T0950 *Blatta orientalis*, T0971 *Bolbostemma paniculatum*, T1241 *Cassia occidentalis*, T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1357 *Chelidonium majus*, T1361 *Chenopodium ambrosioides*, T1787 *Cremastra appendiculata*, T1866 *Cryptolepis sinensis*, T2334 *Elephantopus scaber*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3410 *Impatiens balsamina*, T3423 *Indigofera tinctoria*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3496 *Isodon japonica* [Syn. *Rabdosia japonica*], T3662 *Lactuca sativa*, T3851 *Lindera glauca*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T4020 *Macleaya cordata*, T4158 *Melia azedarach*, T4183 *Menispermum dauricum*, T4206 *Metaplexis japonica*, T4305 *Mosla dianthera*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4470 *Ocimum basilicum*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudohibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4714 *Perilla frutescens*, T4956 *Piper mullesua*, T5173 *Portulaca oleracea*, T5184 *Potentilla kleiniana*, T5194 *Premna microphylla*, T5267 *Psidium guajava*, T5295 *Pteris multifida*, T5298 *Pteris vittata*, T5396 *Rabdosia rubescens*, T5685 *Salvia plebeia*, T5712 *Sanguisorba officinalis*, T5844 *Scutellaria scordifolia*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*.
- soft tissue sprain** T2206 *Dioscorea parviflora*.
- sore** T0319 *Allium schoenoprasum*, T0500 *Anguilla japonica*, T4368 *Nandina domestica*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5530 *Rhus chinensis* [Syn. *Rhus semialata*], T6279 *Tagetes erecta*.
- sore (leaf)** T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*].
- sore and boil** T0011 *Abrus precatorius*, T0130 *Aconitum sinomontanum*, T0293 *Albizia lebbek*, T0379 *Alternanthera philoxeroides*, T0468 *Anemone hupehensis*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0879 *Bauhinia purpurea*, T0888 *Beesia calthaefolia*, T1003

Brandisia hancei, T1046 *Buddleja davidii*, T1785 *Cratogeomys prunifolium*, T2092 *Delphinium delphis*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2334 *Elephantopus scaber*, T2357 *Emilia sonchifolia*, T2365 *Enteromorpha clathrata*, T2505 *Eucalyptus citriodora*, T2591 *Euphorbia humifusa*, T2715 *Fibraurea recisa*, T2946 *Geranium robertianum*, T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T3040 *Gomphrena globosa*, T3080 *Gymnema sylvestre*, T3233 *Heteropappus altaicus*, T3241 *Hibiscus mutabilis*, T3244 *Hibiscus syriacus*, T3398 *Ilex rotunda*, T3423 *Indigofera tinctoria*, T3471 *Iris tectorum*, T3709 *Lathyrus pratensis*, T3840 *Limnophila rugosa*, T3887 *Litsea glutinosa*, T3998 *Lysimachia christinae*, T4026 *Macrothelypteris oligophlebia*, T4120 *Marsdenia tenacissima*, T4188 *Mentha rotundifolia*, T4190 *Mentha spicata*, T4305 *Mosla dianthera*, T4423 *Nicandra physaloides*, T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T5172 *Portulaca grandiflora*, T5174 *Portulaca pilosa*, T5177 *Potamogeton pectinatus*, T5199 *Primula malacoides*, T5449 *Reineckea carnea*, T5548 *Ricinus communis*, T5850 *Sedum aizoon*, T5855 *Sedum kamtschaticum*, T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6029 *Sophora alopecuroides*, T6121 *Stephania dicentrinifera*, T6129 *Stephania japonica*, T6137 *Stephania viridiflavens*, T6145 *Stichopus japonicus*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6304 *Taxillus levinei*, T6386 *Thalictrum foetidum*, T6444 *Thunbergia grandiflora*, T6580 *Tylophora floribunda*, T6599 *Ulva lactuca*, T6600 *Ulva pertusa*, T6645 *Urena lobata*, T6716 *Vernonia esculenta*, T6772 *Viscum angulatum*.

sore and boil in children T5266 *Psidium guajava*.

sore and boil with swelling of clove T0047 *Acanthus ebracteatus*.

sore and lichen T1106 *Caesalpinia minax*, T1296 *Celosia argentea*, T2139 *Dianella ensifolia*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3738 *Lemna minor*, T6474 *Toona ciliata*, T6475 *Toona sinensis*.

sore and papules T4979 *Pistacia chinensis*, T5231 *Prunus persica*.

sore and papules with intractable lichen T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].

sore and scab T1261 *Catalpa ovata*, T1558 *Clerodendron inerme*, T5549 *Ricinus communis*, T5724 *Sapium sebiferum*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*].

sore and scab in children T3893 *Litsea pungens*.

sore and welling abscess T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T1673 *Corchorus capsularis*, T3192 *Hemerocallis citrina*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4370 *Nandina domestica*, T4618 *Panicum miliaceum*, T5107 *Polygonum multiflorum*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5457 *Rhamnus davurica*, T6101 *Stauntonia hexaphylla*, T6122 *Stephania dielsiana*, T6788 *Vitex negundo*.

sore and welling abscess with scab and lichen T6214 *Swertia chinensis*.

sore in lower body T1171 *Canis familiaris*.

sore lai T4240 *Millettia pachycarpa*.

sore lichen and scab lai T1566 *Clerodendrum inerme*, T4158 *Melia*

azedarach.

sore pharynx T0045 *Acanthopanax trifoliatum*, T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0834 *Averrhoa carambola*, T0912 *Berberis poiretii*, T0947 *Bixa orellana*, T1417 *Cimicifuga acerina*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T2290 *Duchesnea indica*, T2902 *Gentiana algida*, T3174 *Heliotropium indicum*, T3190 *Helminthostachys zeylanica*, T3201 *Hemiphragma heterophyllum*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3829 *Ligustrum robustum*, T4186 *Mentha piperita*, T4190 *Mentha spicata*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T5840 *Scutellaria indica*, T6028 *Sophora alopecuroides*, T6121 *Stephania dicentrinifera*, T6137 *Stephania viridiflavens*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6301 *Taraxacum mongolicum*, T6722 *Veronica anagallis-aquatica*.

sore red eyes and clouded vision T3957 *Lycium chinense*.

sore red swollen eyes and tearing T6437 *Thlaspi arvense*.

sore swollen throat T0267 *Ajuga nipponensis*, T3240 *Hibiscus esculentus*, T3548 *Ixeris sonchifolia*, T3765 *Lepisorus ussuriensis*, T3830 *Ligustrum sinense*, T6125 *Stephania elegans*, T6219 *Swertia erythrosticta*, T6224 *Swertia kouitchensis*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*].

sore toxin T0098 *Aconitum geniculatum*, T0389 *Amaranthus tricolor*, T0423 *Ampelopsis brevipedunculata*, T0434 *Amsonia sinensis*, T0561 *Arachis hypogaea*, T0932 *Betula luminifera*, T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*], T1733 *Corydalis racemosa*, T1866 *Cryptolepis sinensis*, T2154 *Dicentra spectabilis*, T2612 *Euphorbia prolifera*, T2617 *Euphorbia royleana*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3163 *Helicteres angustifolia*, T3283 *Hosta sieboldiana*, T3557 *Jasminum sambac*, T3687 *Lantana camara*, T3853 *Lindera obtusiloba*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4830 *Phryma leptostachya*, T5298 *Pteris vittata*, T5537 *Rhus sylvestris*, T5554 *Rodgersia aesculifolia*, T6125 *Stephania elegans*, T6136 *Stephania tetrandra*, T6540 *Tripterygium hypoglaucom*, T6555 *Tropaeolum majus*, T6705 *Verbascum thapsus*, T6744 *Vicia faba*.

sore toxin and intractable lichen T4658 *Parmelia tinctorum*.

sore toxin of sore and boil T0659 *Artemisia absinthium*.

sore toxin of welling abscess and boil T5523 *Rhododendron simsii*, T6128 *Stephania hernandifolia*.

sore toxin of welling abscess and flat abscess T0982 *Bos taurus domesticus*, T2442 *Ervatamia divaricata*, T4009 *Maackia amurensis*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.

sore welling abscess and lichen lai T2077 *Delphinium grandiflorum*.

sores T0295 *Albizia odoratissima*, T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0495 *Angelica sinensis*, T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T0912 *Berberis poiretii*, T0947 *Bixa orellana*, T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*], T1100 *Caesalpinia crista*, T1655 *Conyza blinii*, T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], T2212 *Dioscorea tokoro*, T2274 *Dryobalanops aromatica*, T2521 *Eucalyptus tereticornis*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2657 *Fagopyrum cymosum* [Syn.

- Polygonum cymosum*], T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4055 *Mahonia bealei*, T4062 *Mahonia fortunei*, T4066 *Mahonia japonica*, T4082 *Mallotus japonicus*, T4172 *Melilotus suaveolens*, T4217 *Microcos paniculata* [Syn. *Grewia microcos*], T4604 *Panax japonicus* var. *bipinnatifidus*, T4804 *Phlojodicarpus sibiricus*, T5401 *Rabdosia yunnanensis*, T5419 *Raphanus sativus*, T5594 *Rubus parkeri*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T6260 *Syringa oblata*, T6373 *Thalictrum alpinum*, T6548 *Tritonia crocosmaeflora*.
- sores and scrofula** T3568 *Juglans regia*.
- sores clove boil** T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*.
- sores eczema** T3860 *Linum usitatissimum*.
- sores scab and lichen** T0088 *Aconitum coreanum*, T0707 *Arthraxon hispidus*.
- sores with pus blood** T2729 *Filipendula ulmaria*.
- sores with welling abscess and flat abscess** T0215 *Agave americana*, T0479 *Angelica dahurica* cv. *qibaizhi*, T0498 *Angelica taiwaniana*, T3878 *Lithocarpus polystachyus*, T3933 *Luffa acutangula*, T3934 *Luffa cylindrica*.
- sparse vaginal discharge** T5075 *Polygala fallax* [Syn. *Polygala aureocauda*].
- spasm** T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T1084 *Buthus martensi*, T4518 *Oppopanax chironium*, T4903 *Pinellia pedatisecta*, T5817 *Scolopendra subspinipes mutilans*.
- spasm in limbs** T2890 *Gastrodia elata*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*].
- spasm of biliary ducts or duodenum** T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*].
- spasmodic abdominal pain** T6229 *Swertia patens*.
- spasmodic abdominal pain of gastrointestinal tract** T6527 *Trigonella caerulea*.
- spasmodic cough** T4275 *Monotropa hypopitys*.
- spider bite** T1182 *Capra hircus*; *Ovis aries*.
- spill pulse** T4481 *Oenanthe javanica*.
- spleen qi vacuity** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*].
- spleen vacuity and abdominal distention** T4147 *Medicago falcata*.
- spleen vacuity and fatigued body** T4600 *Panax ginseng* [Syn. *Panax schinseng*], T5260 *Pseudostellaria heterophylla*.
- spleen vacuity and food distention** T0529 *Anthriscus sylvestris*.
- spleen vacuity and functional weakness** T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*].
- spleen vacuity and marked emaciation** T0991 *Bos taurus domesticus*; *Bubalus bubalis*.
- spleen vacuity and vaginal discharge** T2720 *Ficus hispida*.
- spleen vacuity cold dysentery** T4982 *Pistacia vera*.
- spleen vacuity diarrhea** T1254 *Castanea mollissima*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1614 *Coix lacryma-jobi* var. *ma-yuen*, T1751 *Corylus heterophylla*, T2188 *Dioscorea alata*, T2195 *Dioscorea deltoidea*, T2326 *Elaeagnus angustifolia*, T3992 *Lyonia ovalifolia* var. *elliptica*, T4088 *Malus pumila*, T4398 *Nelumbo nucifera*, T4786 *Phasianus colchicus*, T5179 *Potentilla anserina*, T5236 *Prunus pseudocerasus*, T5606 *Rumex acetosa*, T6056 *Sorghum vulgare*, T6267 *Syzygium jambos*, T6492 *Trapa bispinosa*.
- spleen vacuity edema** T2727 *Ficus simplicissima*, T2998 *Glycine max*, T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*], T5075 *Polygala fallax* [Syn. *Polygala aureocauda*].
- spleen vacuity qi fall** T4601 *Panax ginseng* [Syn. *Panax schinseng*].
- spleen vacuity with damp** T2246 *Dolichos lablab*.
- spleen weakness and functional weakness** T6878 *Zanthoxylum echinocarpum*.
- spleen-kidney vacuity** T4681 *Pedicularis decora*, T5270 *Psoralea corylifolia*.
- spleen-kidney yang vacuity** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*].
- spleen-stomach cold-damp obstructing** T0358 *Alpinia katsumadai*.
- spleen-stomach damp turbidity** T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T6561 *Tulipa gesneriana*.
- spleen-stomach disharmony** T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T2452 *Erysimum cheiranthoides*.
- spleen-stomach qi stagnation** T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*.
- spleen-stomach qi stagnation and damp obstruction** T1506 *Citrus reticulata*.
- spleen-stomach qi stagnation due to damp obstructing middle-jiao** T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*].
- spleen-stomach vacuity** T1202 *Carex kobomugi*, T1596 *Codonopsis canescens*, T1597 *Codonopsis clematidea*, T1599 *Codonopsis pilosula*, T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*], T1601 *Codonopsis subglobosa*, T1602 *Codonopsis tangshen*, T1603 *Codonopsis tubulosa*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T4178 *Melodinus hemsleyanus*, T4545 *Oryza sativa*, T4644 *Parasilurus asotus*, T5872 *Selenarctos thibetanus*; *Ursus arctos*, T6754 *Vigna unguiculata*.
- spleen-stomach vacuity cold** T0360 *Alpinia oxyphylla*, T4351 *Myristica fragrans*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*.
- spleen-stomach vacuity heat** T5938 *Setaria italica*.
- splitting of anus** T0955 *Bletilla striata*.
- spontaneous external bleeding** T0001 *Abelmoschus manihot*, T0226 *Agave sisalana*, T0229 *Ageratum conyzoides*, T0266 *Ajuga macrosperma*, T0322 *Allium tuberosum*, T0324 *Allium victorialis*, T0382 *Althaea rosea*, T0568 *Aralia chinensis*, T0570 *Aralia dasyphylla*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T0664 *Artemisia argyi*, T0678 *Artemisia japonica*, T0681 *Artemisia lavandulaefolia*, T0685 *Artemisia mongolica*, T0687 *Artemisia myriantha*, T0689 *Artemisia princeps*, T0691 *Artemisia rubripes*, T0706 *Artemisia vulgaris*, T0830 *Auricularia auricula*, T0831 *Auricularia delicata*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0955 *Bletilla striata*, T0962 *Boehmeria platanifolia* [Syn.

- Boehmeria tricuspidis*, T0964 *Boenninghausenia albiflora*, T0982 *Bos taurus domesticus*, T1044 *Bryum argenteum*, T1045 *Bubalus bubalis*, T1116 *Callicarpa arborea*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1120 *Callicarpa macrophylla*, T1145 *Camellia japonica*, T1184 *Capsella bursa-pastoris*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1210 *Carpesium abrotanoides*, T1254 *Castanea mollissima*, T1311 *Centella asiatica*, T1449 *Cirsium japonicum*, T1451 *Cirsium setosum* [Syn. *Cerratala setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1554 *Clerodendron cyrtophyllum*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T1907 *Curcuma wenguijin*, T1969 *Cynoglossum officinale*, T2191 *Dioscorea bulbifera*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2257 *Dracocephalum moldavicum*, T2280 *Dryopteris chrysocoma*, T2281 *Dryopteris crassirhizoma*, T2407 *Equisetum arvense*, T2538 *Euonymus bungeanus*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3276 *Homo sapiens*, T3277 *Homo sapiens*, T3334 *Hypocoum leptocarpum*, T3349 *Hypericum erectum*, T3363 *Hypericum sampsonii*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3416 *Imperata cylindrica* var. *major*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3547 *Ixeris chinensis*, T3645 *Kummerowia striata*, T3736 *Lemmaphyllum microphyllum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3769 *Lespedeza bicolor*, T3881 *Lithospermum erythrorhizon*, T3926 *Loropetalum chinense*, T3954 *Lycium barbarum*, T3956 *Lycium chinense*, T3981 *Lycopus lucidus*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4121 *Marsilea quadrifolia*, T4127 *Matteuccia struthiopteris*, T4305 *Mosla dianthera*, T4398 *Nelumbo nucifera*, T4402 *Nelumbo nucifera*, T4413 *Nepeta cataria*, T4549 *Osbeckia chinensis*, T4552 *Osmunda japonica*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4582 *Paeonia delavayi*, T4584 *Paeonia lactiflora* wild, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T4604 *Panax japonicus* var. *bipinnatifidus*, T4605 *Panax japonicus* var. *major*, T4606 *Panax pseudo-ginseng*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4720 *Perilla frutescens* var. *arguta*, T4723 *Perilla frutescens* var. *crispa*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5099 *Polygonum bistorta*, T5120 *Polygonum tinctorium*, T5121 *Polygonum tinctorium*, T5133 *Polytrichum commune*, T5230 *Prunus persica*, T5295 *Pteris multifida*, T5372 *Quercus dentata*, T5419 *Raphanus sativus*, T5449 *Reineckea carnea*, T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis*, T5523 *Rhododendron simsii*, T5554 *Rodgersia aesculifolia*, T5594 *Rubus parkeri*, T5607 *Rumex crispus*, T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5614 *Rumex patientia*, T5701 *Salvia yunnanensis*, T5712 *Sanguisorba officinalis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5850 *Sedum aizoon*, T5851 *Sedum alfredii* [Syn. *Sedum formosanum*], T5855 *Sedum kantschaticum*, T5863 *Selaginella moellendorffii*, T6034 *Sophora japonica*, T6036 *Sophora japonica*, T6047 *Sophora viciifolia*, T6048 *Sophora viciifolia*, T6076 *Spinacia oleracea*, T6119 *Stephania cepharantha*, T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6485 *Trachycarpus fortunei*, T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6764 *Vinegar*.
- spontaneous external bleeding due to blood heat** T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- spontaneous sweating** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T1598 *Codonopsis convolvulacea*, T2658 *Fagopyrum esculentum*, T4548 *Oryza sativa* var. *glutinosa*, T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*].
- spontaneous sweating and night sweating** T2381 *Ephedra sinica*, T3128 *Hedysarum multijugum*, T5791 *Schisandra chinensis*, T5802 *Schisandra sphenanthera*.
- spontaneous sweating and night sweating due to vacuity** T6918 *Ziziphus jujuba* var. *spinosa*.
- spontaneous sweating due to exterior vacuity** T0791 *Astragalus chrysopterus*, T0794 *Astragalus ernestii*, T0798 *Astragalus membranaceus*, T0800 *Astragalus mongholicus*, T3129 *Hedysarum polybotrys*.
- sprain** T0170 *Adhatoda vasica*, T3318 *Hylotelephium mingianum*, T4221 *Micromelum falcatum*, T4917 *Pinus massoniana*.
- sprain and contusion** T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*], T1147 *Camellia oleifera*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1931 *Cyclea barbata*, T2884 *Gardenia jasminoides* var. *grandiflora*, T2946 *Geranium robertianum*, T4018 *Machilus thunbergii*, T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*.
- sprain from knocks and falls** T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1557 *Clerodendron indicum*, T2213 *Dioscorea zingiberensis*, T3976 *Lycopodium obscurum*, T5028 *Plumbago indica*, T5029 *Plumbago zeylanica*, T6008 *Solanum nigrum*, T6705 *Verbascum thapsus*.
- sprain in joints** T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*].
- sprain of hands and feet** T0569 *Aralia cordata*, T0574 *Aralia fargesii*.
- squamous carcinoma of skin** T1831 *Crotalaria sessiliflora*.
- stabbing pain in chest and abdomen** T1108 *Caesalpinia sappan*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*].
- stabbing pain in heart and abdomen** T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*.
- stable intermittent claudication** T2961 *Ginkgo biloba*.
- stagnation of damp-heat in liver and gall** T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*].
- stasis heat yellowing** T1045 *Bubalus bubalis*.
- stasis of lung qi** T1960 *Cynanchum stauntonii*.

- stasis pain from knocks and falls** T0010 *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0151 *Acronychia pedunculata*, T0890 *Begonia limprichtii*, T0994 *Boswellia carterii*, T5400 *Rabdosia stracheyi*, T5966 *Siphonostegia chinensis*.
- stasis pain in chest and abdomen** T1638 *Commiphora myrrha* [Syn. *Commiphora molmol*].
- stasis stagnation pain in stomach duct and abdomen** T6872 *Zanthoxylum cuspidatum*.
- stasis swelling due to injury** T5419 *Raphanus sativus*.
- stasis swelling from knocks and falls** T0069 *Achillea wilsoniana*, T0282 *Alangium kurzii*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0853 *Baeckea frutescens*, T0879 *Bauhinia purpurea*, T1558 *Clerodendron inerme*, T2296 *Duranta repens*, T3221 *Heracleum rapula*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*], T3520 *Isodon rosthornii*, T3560 *Jatropha curcas*, T5411 *Randia spinosa*, T5424 *Rauwolfia verticillata*, T5701 *Salvia yunnanensis*.
- stasis swelling pain** T3809 *Ligularia lapathifolia*.
- static blood** T3842 *Limonium gmelinii*.
- static blood from knocks and falls** T5151 *Populus davidiana*.
- static blood pain** T5868 *Selaginella stauntoniana*.
- static blood pain due to injury** T5144 *Populus adenopoda*.
- static blood swelling and distention** T4568 *Oxytropis myriophylla*.
- static blood swelling pain** T4951 *Piper laetispicum*, T5883 *Senecio cannabifolius*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*.
- steaming bone** T2994 *Gloiopeltis furcata*.
- steaming bone fever and chills** T1232 *Cassia fistula*.
- steaming bone taxation cough** T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*.
- steaming bone taxation fever** T0705 *Artemisia vestita*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T3279 *Homo sapiens*, T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5498 *Rhodiola quadrifida*, T5762 *Saussurea nigrescens*, T6104 *Stellaria dichotoma* var. *lanceolata*.
- steaming bone tidal fever** T0462 *Anemarrhena asphodeloides*, T0607 *Arenaria juncea*, T0687 *Artemisia myriantha*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2952 *Gerbera piloselloides*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T4681 *Pedicularis decora*, T5955 *Silene jensiseensis*, T6060 *Souliea vaginata*, T6139 *Sterculia lychnophora*, T6582 *Tylophora ovata*.
- steaming bone tidal fever due to yin vacuity** T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4887 *Picrorhiza kurroa*, T4888 *Picrorhiza scrophulariiflora*, T5133 *Polytrichum commune*.
- steaming bone vexation thirst** T0302 *Alhagi pseudalhagi*.
- sterility** T6257 *Syngnathus acus*.
- sterility and infertility** T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- sticky phlegm** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T3819 *Ligusticum brachylobum*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*.
- sticky phlegm and oppression in chest** T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria walujewii*.
- stiffness in joints** T1017 *Brassica oleracea* var. *capitata*.
- stings** T0388 *Amaranthus lividus*.
- stirring fetus disquieted** T0418 *Amomum muricarpum*, T6772 *Viscum angulatum*, T6777 *Viscum multinerve*.
- stirring fetus in pregnancy** T0417 *Amomum longiligulare*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*], T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T1980 *Cyprinus carpio*, T1982 *Cyprinus carpio*, T2530 *Eucommia ulmoides*, T3431 *Inula helenium*, T3437 *Inula racemosa*, T4399 *Nelumbo nucifera*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T6775 *Viscum coloratum*.
- stirring fetus with bleeding** T0542 *Apis cerana*.
- stomach and esophagus hemorrhage** T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*].
- stomach cold** T0356 *Alpinia galanga*, T6864 *Zanthoxylum armatum*, T6887 *Zanthoxylum planispinum*.
- stomach cold abdominal pain** T0353 *Alpinia blepharocalyx*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T5504 *Rhododendron capitatum*.
- stomach cold and hiccup** T6267 *Syzygium jambos*.
- stomach cold and qi stagnation** T1186 *Capsicum annum*, T1187 *Capsicum frutescens*.
- stomach cold distending pain** T1435 *Cinnamomum camphora*, T3880 *Lithospermum arvense*, T4763 *Peucedanum morisonii*.
- stomach cold pain** T2895 *Gaultheria yunnanensis*, T3120 *Hedychium spicatum*, T4964 *Piper retrofractum*.
- stomach cold with retching counterflow** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T2745 *Foeniculum vulgare*, T4944 *Piper cubeba*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- stomach disease** T3394 *Ilex paraguariensis*.
- stomach disease and acid vomiting** T6412 *Thalictrum squarrosum*.
- stomach duck pain** T1100 *Caesalpinia crista*, T2841 *Gallus gallus domesticus*.
- stomach duct pain and abdominal distention** T2555 *Eupatorium chinense*.
- stomach fire toothache** T0446 *Anaphalis margaritacea*, T0959 *Blumea lacera*.
- stomach heat blood ejection** T3863 *Liparis nervosa*.
- stomach heat fluid damage** T1490 *Citrus limon*, T1494 *Citrus limonia*, T2867 *Garcinia multiflora*.
- stomach heat pain** T0916 *Berberis thunbergii*.
- stomach heat vexation thirst** T6526 *Triglochin maritimum*.
- stomach heat vomiting** T0423 *Ampelopsis brevipedunculata*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisekala*, T1664

Coptis deltoidea, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T2337 *Elephas maximus*, T2433 *Eriobotrya japonica*, T4829 *Phragmites communis*.

stomach hemorrhage T1866 *Cryptolepis sinensis*.

stomach qi pain T5122 *Polygonum viscosum*.

stomach reflux T0353 *Alpinia blepharocalyx*, T0559 *Arachis hypogaea*, T0976 *Bombyx mori*, T1182 *Capra hircus*; *Ovis aries*, T2837 *Gallus gallus domesticus*, T2841 *Gallus gallus domesticus*, T4544 *Oryza sativa*, T4547 *Oryza sativa* cv, T4636 *Papaver somniferum*, T5139 *Poncirus trifoliata*.

stomach reflux and dysphagia-occlusion T0989 *Bos taurus domesticus*; *Bubalus bubalis*.

stomach reflux vomiting T1254 *Castanea mollissima*, T3885 *Litsea cubeba*, T5363 *Pyrus calleryana*, T5938 *Setaria italica*.

stomach yin insufficiency T2983 *Glehnia littoralis*, T3873 *Liriope platyphylla*, T3874 *Liriope spicata*, T4602 *Panax ginseng* [Syn. *Panax schinseng*].

stomachache T0010 *Abrus fruticosus* [Syn. *Abrus cantoniensis*], T0048 *Acanthus ilicifolius*, T0069 *Achillea wilsoniana*, T0099 *Aconitum gymnandrum*, T0130 *Aconitum sinomontanum*, T0374 *Alstonia scholaris*, T0383 *Alyxia sinensis*, T0471 *Anemone rivularis*, T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0501 *Anisodus luridus*, T0529 *Anthriscus sylvestris*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0631 *Aristolochia kaempferi*, T0726 *Asarum forbesii*, T0730 *Asarum sagittarioides*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T1043 *Bryophyllum pinnatum*, T1205 *Carica papaya*, T1242 *Cassia occidentalis*, T1357 *Chelidonium majus*, T1437 *Cinnamomum camphora*, T1501 *Citrus medica* var. *sarcodactylis*, T1533 *Clausena dentata*, T1534 *Clausena dunniana*, T1555 *Clerodendron fortunatum*, T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1592 *Cocos nucifera*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T1931 *Cyclea barbata*, T1980 *Cyprinus carpio*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T2091 *Delphinium yunnanense*, T2154 *Dicentra spectabilis*, T2267 *Drosera peltata* var. *lunata*, T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T2327 *Elaeagnus angustifolia*, T2529 *Euchresta strigillosa*, T2612 *Euphorbia prolifera*, T2636 *Euscaphis japonica*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2721 *Ficus microcarpa*, T2733 *Firmiana simplex*, T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T2744 *Foeniculum vulgare*, T2749 *Fomes officinalis*, T3120 *Hedychium spicatum*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3221 *Heracleum rapula*, T3254 *Hippophae rhamnoides*, T3256 *Hippophae rhamnoides* subsp. *sinensis*, T3258 *Hippophae rhamnoides* subsp. *yunnanensis*, T3398 *Ilex rotunda*, T3418 *Incarvillea arguta*, T3457 *Iris dichotoma*, T3461 *Iris japonica*, T3468 *Iris sanguinea*, T3548 *Ixeris sonchifolia*, T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*], T3840 *Limnophila rugosa*, T3876 *Litchi chinensis*, T3897 *Litsea verticillata*, T3925 *Loranthus parasiticus* [Syn.

Loranthus chinensis; *Taxillus chinensis*], T4188 *Mentha rotundifolia*, T4190 *Mentha spicata*, T4223 *Micromelum integerrimum*, T4343 *Myrica esculent*, T4386 *Nardostachys chinensis*, T4387 *Nardostachys jatamansi*, T4503 *Onychium lucidum*, T4506 *Ophioglossum vulgatum*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T4527 *Orixa japonica*, T4605 *Panax japonicus* var. *major*, T4618 *Panicum miliaceum*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4631 *Papaver nudicaule* var. *chinense*, T4823 *Pholidota yunnanensis*, T4938 *Piper boehmeriaefolium*, T4948 *Piper hancei*, T5247 *Przewalskia tangutica*, T5250 *Psammosilene tunicoides*, T5414 *Ranunculus japonicus*, T5645 *Sageretia theezans* [Syn. *Sageretia thea*], T5720 *Sapindus mukorossi*, T5795 *Schisandra micrantha*, T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*], T5939 *Shiraia bambusicola*, T5989 *Solanum aculeatissimum*, T6003 *Solanum khasianum*, T6014 *Solanum surattense*, T6015 *Solanum torvum*, T6017 *Solanum tuberosum*, T6029 *Sophora alopecuroides*, T6049 *Sophora viciifolia*, T6055 *Sorbus tianschanica*, T6118 *Stephania brachyandra*, T6121 *Stephania dicentrinifera*, T6122 *Stephania dielsiana*, T6128 *Stephania hernandifolia*, T6129 *Stephania japonica*, T6133 *Stephania sinica*, T6135 *Stephania succifera*, T6137 *Stephania viridiflavens*, T6177 *Strychnos ignatii*, T6339 *Tephrosia purpurea*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6566 *Tupistra chinensis*, T6772 *Viscum angulatum*, T6787 *Vitex negundo*, T6884 *Zanthoxylum nitidum*.

stomachache and abdominal distention T0967 *Boeninghausenia sessilicarpa*.

stomachache blood ejection T6567 *Tupistra wattii* [Syn. *Campylandra wattii*].

stomachache due to roundworm T6864 *Zanthoxylum armatum*, T6887 *Zanthoxylum planispinum*.

stomachache with acid regurgitation T6789 *Vitex negundo*.

stomachache with distention and oppression T0354 *Alpinia chinensis*.

stomatitis T1655 *Conyza blinii*, T2340 *Elsholtzia bodinieri*, T2852 *Garcinia cowa*, T2989 *Glochidion sphaerogynum*, T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T5587 *Rubus alceaefolius*, T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T6060 *Souliea vaginata*, T6278 *Tagetes erecta*, T6580 *Tylophora floribunda*.

stone strangury T0045 *Acanthopanax trifoliatum*, T0155 *Actinidia arguta*, T0158 *Actinidia chinensis*, T0297 *Alchornea trewioides*, T0834 *Averrhoa carambola*, T1007 *Brassica juncea*, T1251 *Cassitha filiformis*, T2134 *Desmodium styracifolium*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2962 *Ginkgo biloba*, T2973 *Glechoma longituba*, T2974 *Glechoma lungituba*, T3568 *Juglans regia*, T3935 *Luffa cylindrica*, T3990 *Lygodium japonicum*, T4840 *Phyllanthus niruri*, T5231 *Prunus persica*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T6095 *Stachytarpheta jamaicensis*.

strangury T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0610 *Argemone mexicana*, T1143 *Calystegia hederacea*, T1197 *Cardiospermum halicacabum*, T1487 *Citrus junos*, T1869 *Cryptotaenia japonica*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T2143 *Dianthus chinensis*, T2145 *Dianthus*

superbus, T2147 *Dianthus versicolor*, T2412 *Equisetum sylvaticum*, T2590 *Euphorbia hirta*, T2730 *Fimbristylis dichotoma*, T3200 *Hemidesmus indicus*, T3311 *Hydrocotyle sibthorpioides*, T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T3479 *Isodon amethystoides*, T3578 *Juncus effusus*, T3668 *Lagenaria siceraria* var. *depressa*, T3865 *Lippia nodiflora*, T4170 *Melilotus albus*, T4225 *Microsorium punctatum*, T4397 *Nelumbo nucifera*, T4482 *Oenanthe javanica*, T4542 *Orthosiphon wulfenii* [Syn. *Coleus wulfenii*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T5124 *Polypodium niponicum*, T5171 *Porphyra tenera*, T5647 *Sagittaria sagittifolia*, T5651 *Salix babylonica*, T5863 *Selaginella moellendorffii*, T5870 *Selaginella uncinata*, T5943 *Sida cordifolia*, T6005 *Solanum lyratum*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*], T6798 *Vitis vinifera*.

strangury syndrome T0001 *Abelmoschus manihot*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0895 *Benincasa hispida*, T1174 *Cannabis sativa*, T1402 *Chrysosplenium alternifolium*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T3243 *Hibiscus rosa-sinensis*, T3769 *Lespedeza bicolor*, T4172 *Melilotus suaveolens*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4855 *Physeter catodon*, T4979 *Pistacia chinensis*, T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*], T5862 *Selaginella involvens*, T6046 *Sophora viciifolia*, T6047 *Sophora viciifolia*, T6356 *Tetrapanax papyriferus*, T6431 *Thesium chinense*, T6645 *Urena lobata*, T6673 *Vaccinium vitis-idaea*, T6912 *Zinnia elegans*.

strangury with pain T0266 *Ajuga macrocarpa*, T2194 *Dioscorea colletii*, T2197 *Dioscorea futschauensis*, T2210 *Dioscorea spongiosa*, T3932 *Ludwigia octovalvis*, T6357 *Tetrapanax papyriferus*.

strangury with white turbidity T2208 *Dioscorea septemloba*.

strangury-turbidity T0171 *Adiantum capillus-veneris*, T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0379 *Alternanthera philoxeroides*, T0462 *Anemarrhena asphodeloides*, T0567 *Aralia armata*, T0571 *Aralia decaisneana*, T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0924 *Bergenia purpurascens*, T1106 *Caesalpinia minax*, T1884 *Cudrania cochinchinensis*, T2649 *Evolvulus alsinoides*, T2830 *Galium aparine*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3270 *Holboellia fargesii*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T4057 *Mahonia bealei*, T4068 *Mahonia japonica*, T4562 *Oxalis acetosella*, T4616 *Pandanus tectorius*, T5129 *Polyporus umbellatus*, T5161 *Populus tomentosa*, T5295 *Pteris multifida*, T5419 *Raphanus sativus*, T5605 *Rumex acetosa*, T5650 *Salix babylonica*, T5750 *Saururus chinensis*, T5976 *Smilax china* [Syn. *Smilax japonica*], T6264 *Syzygium buxifolium*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*].

strangury-turbidity and vaginal discharge T0161 *Actinidia eriantha*, T1552 *Cleome viscosa*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T6087 *Spiranthes sinensis*.

stream toxin T1595 *Codium fragile*.

stubborn lichen with sore toxin T5157 *Populus pseudo-simonii*.

stupor due to phlegm reversal T0142 *Acorus calamus*.

sty T3564 *Juglans mandshurica*.

subcutaneous static blood T0964 *Boenninghausenia albiflora*.

sudden clouding collapse T3868 *Liquidambar orientalis*.

sudden pain in heart and abdomen T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T6800 *Viverra zibetha*.

sudden stroke and fulminant reversal T6197 *Syrax benzoin*, T6204 *Syrax tonkinensis*.

summer common cold T0212 *Agastache rugosus*, T0678 *Artemisia japonica*, T0687 *Artemisia myriantha*, T2341 *Elsholtzia ciliata*.

summer externally contracted wind-cold T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*].

summer unacclimation in child T4121 *Marsilea quadrifolia*.

summerhea-damp and damage center T1278 *Cedrela sinensis*.

summerheat damage T1941 *Cymbopogon distans*, T2554 *Eupatorium cannabinum*, T4101 *Mangifera indica*.

summerheat stroke T1573 *Clinopodium chinense*, T2341 *Elsholtzia ciliata*, T4209 *Michelia alba*, T4261 *Mollugo pentaphylla*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T4335 *Mussaenda pubescens*, T4470 *Ocimum basilicum*, T4526 *Origanum vulgare*, T5109 *Polygonum nodosum*, T5400 *Rabdosia stracheyi*, T6285 *Tamarindus indica*, T6416 *Thamnia vermicularis*, T6431 *Thesium chinense*, T6598 *Ulva conglobata*, T6788 *Vitex negundo*, T6889 *Zanthoxylum podocarpum*.

summerheat stroke and anidrosis T6367 *Teucrium quadrifarium*.

summerheat stroke with abdominal pain T5393 *Rabdosia longituba*.

summerheat stroke with fever T0687 *Artemisia myriantha*, T1784 *Cratoxylum cochinchinense*, T1785 *Cratoxylum prunifolium*.

summerheat stroke with sand T1137 *Caltha palustris*.

summerheat stroke with vexation and thirst T1490 *Citrus limon*, T1494 *Citrus limonia*, T4573 *Pachyrrhizus erosus*.

summerheat stroke with vomiting and diarrhea T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T3885 *Litsea cubeba*.

summerheat-damp T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*].

summerheat-damp and oppression in chest T4172 *Melilotus suaveolens*, T4397 *Nelumbo nucifera*.

summerheat-damp damage center T6499 *Tribulus terrestris*.

summerheat-damp diarrhea T0631 *Aristolochia kaempferi*, T3398 *Ilex rotunda*, T4335 *Mussaenda pubescens*, T4398 *Nelumbo nucifera*, T4399 *Nelumbo nucifera*, T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*.

summerheat-damp exterior syndrome T2558 *Eupatorium formosanum*, T2559 *Eupatorium fortunei*.

summerheat-damp lassitude T5059 *Pogostemon cablin* [Syn. *Mentha cablin*].

summerheat-damp vomiting and diarrhea T2246 *Dolichos lablab*, T3645 *Kummerowia striata*, T3886 *Litsea euosma*.

summerheat-heat T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*].

summerheat-heat and cholera T5227 *Prunus mume*.

summerheat-heat and oppression in chest T4170 *Melilotus albus*.

- summerheat-heat and thirst** T1179 *Capparis masaikai*, T2989 *Glochidion sphaerogynum*, T4602 *Panax ginseng* [Syn. *Panax schinseng*].
- summerheat-heat and vexation and thirst** T1544 *Cleistocalyx operculatus*, T3829 *Ligustrum robustum*.
- summerheat-heat and vomiting diarrhea** T1238 *Cassia mimosoides*.
- summerheat-heat diarrhea** T1311 *Centella asiatica*, T5818 *Scoparia dulcis*.
- summerheat-heat thirst** T4979 *Pistacia chinensis*.
- summerheat-heat vexation and thirst** T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T4263 *Momordica charantia*, T4398 *Nelumbo nucifera*, T4785 *Phaseolus vulgaris*, T6492 *Trapa bispinosa*, T6803 *Volvariella volvacea*.
- suppurative hematochezia** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- suppurative infection** T0019 *Acacia catechu*, T0634 *Aristolochia mollissima*, T4882 *Picrasma quassoides* [Syn. *Picrasma ailanthoides*].
- suppurative nest sore** T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*].
- suppurative osteomyelitis** T6217 *Swertia davidii*.
- suppurative sore** T5143 *Pongamia pinnata*.
- suppurative tympanitis** T4080 *Mallotus apelta*.
- sweat macule** T1878 *Cucumis sativus*.
- sweet-greasy in mouth** T2558 *Eupatorium forosanum*, T2559 *Eupatorium fortunei*.
- swelling and pain of sore and welling abscess** T2974 *Glechoma lungituba*, T4279 *Morina chinensis*.
- swelling and pus of sores** T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*], T4335 *Mussaenda pubescens*, T6820 *Wikstroemia indica*.
- swelling and toxin of sore and welling abscess** T4814 *Phlomis umbrosa*, T6219 *Swertia erythrosticta*, T6374 *Thalictrum atriplex*.
- swelling hemorrhoids** T1007 *Brassica juncea*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T6125 *Stephania elegans*.
- swelling in ear** T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928 *Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*.
- swelling in joints** T5964 *Sinomenium acutum*.
- swelling of clove** T1660 *Coprinus atramentarius*, T2627 *Euphoria longan* [Syn. *Dimocarpus longan*], T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3876 *Litchi chinensis*, T4031 *Maesa perlaris*, T5579 *Rubia cordifolia*.
- swelling of skin** T3443 *Iphigenia indica*.
- swelling of sore welling abscess and boil** T0602 *Ardisia quinquegona*, T4203 *Mesua ferrea*.
- swelling of sores** T0476 *Angelica anomala*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0894 *Benincasa hispida*, T1162 *Camptotheca acuminata*, T2336 *Elephas maximus*, T2387 *Epilobium hirsutum*, T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*], T2536 *Euonymus alatus*, T2586 *Euphorbia esula* var. *cyparissoides*, T2631 *Eurya japonica*, T2955 *Geum japonicum*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*], T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4385 *Narcissus tazetta* var. *chinensis*, T4813 *Phlomis tuberosa*, T5109 *Polygonum nodosum*, T5110 *Polygonum orientale*, T5397 *Rabdosia serra*, T5661 *Salvia bowleyana*, T5672 *Salvia flava*, T5701 *Salvia yunnanensis*, T5781 *Schefflera arboricola*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T6062 *Sparganium stoloniferum*, T6155 *Strophanthus divaricatus*, T6560 *Tulipa edulis*, T6722 *Veronica anagallis-aquatica*.
- swelling of sores and boils** T0642 *Aristolochia tubiflora*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3549 *Ixora chinensis*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T6252 *Symplocos chinensis*.
- swelling of sores and damp toxin** T3201 *Hemiphragma heterophyllum*.
- swelling of welling abscess** T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T5642 *Saccharum sinensis*, T6764 *Vinegar*.
- swelling of welling abscess and boil** T0631 *Aristolochia kaempferi*.
- swelling pain due to external injury** T1108 *Caesalpinia sappan*, T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*], T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*.
- swelling pain due to stasis accumulation** T2328 *Elaeis guineensis*.
- swelling pain from fracture** T0886 *Beaumontia grandiflora*, T1285 *Celastrus angulatus*, T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*], T3155 *Helianthus tuberosus*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*.
- swelling pain from hemorrhoids** T0624 *Aristolochia contorta*, T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*], T0630 *Aristolochia indica*, T0633 *Aristolochia maxima*, T0640 *Aristolochia triangularis*, T0852 *Bacopa monniera*, T0859 *Balanophora involucrata*, T4182 *Menispermum dauricum*, T4183 *Menispermum dauricum*, T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- swelling pain in joints** T0130 *Aconitum sinomontanum*, T0659 *Artemisia absinthium*, T2546 *Euonymus sacrosancta*, T2624 *Euphorbia tirucalli*, T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*], T4143 *Meconopsis horridula*, T4252 *Mirabilis jalapa*, T4286 *Morinda umbellata*, T4800 *Phlegmariurus fordii*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*].
- swelling pain in knees and feet** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- swelling pain in perineum** T2243 *Dodonaea viscosa*.
- swelling pain in throat** T0011 *Abrus precatorius*, T0073 *Achyranthes bidentata*, T0195 *Aeginetia indica*, T0197 *Aegle marmelos*, T0229 *Ageratum conyzoides*, T0262 *Ajuga ciliata*, T0263 *Ajuga decumbens*, T0264 *Ajuga forrestii*, T0378 *Alstonia yunnanensis*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0471 *Anemone rivularis*, T0567 *Aralia armata*, T0571 *Aralia decaisneana*, T0584 *Arctium lappa*, T0586 *Arctium lappa*, T0594 *Ardisia crenata*, T0595 *Ardisia crispa*, T0602 *Ardisia quinquegona*, T0641 *Aristolochia*

tuberosa, T0643 *Aristolochia versicolor*, T0736 *Asclepias curassavica*, T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T0892 *Belamcanda chinensis*, T0906 *Berberis julianae*, T0916 *Berberis thunbergii*, T0938 *Bidens bipinnata*, T0941 *Bidens tripartita*, T0959 *Blumea lacera*, T0975 *Bombyx mori*, T0977 *Bombyx mori*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T1006 *Brassica chinensis*, T1043 *Bryophyllum pinnatum*, T1045 *Bubalus bubalis*, T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1161 *Campsis grandiflora*, T1165 *Canarium album*, T1361 *Chenopodium ambrosioides*, T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], T1384 *Chondrus ocellatus*, T1423 *Cimicifuga nanchuanensis*, T1425 *Cimicifuga simplex*, T1554 *Clerodendron cyrtophyllum*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1633 *Commelina communis*, T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*], T1810 *Croomia japonica*, T1933 *Cyclea sutchuenensis*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2028 *Daphne odora*, T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2157 *Dichotomanthes tristaniae* *carpa*, T2233 *Diploclisia glaucescens*, T2257 *Dracocephalum moldavicum*, T2258 *Dracocephalum rupestre*, T2267 *Drosera peltata* var. *lunata*, T2274 *Dryobalanops aromatica*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2442 *Ervatamia divaricata*, T2444 *Ervatamia heyneana*, T2445 *Ervatamia officinalis*, T2517 *Eucalyptus robusta*, T2529 *Euchresta strigillosa*, T2628 *Euphrasia officinalis*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2691 *Farfugium japonicum*, T2717 *Ficus carica*, T2723 *Ficus pumila*, T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T2749 *Fomes officinalis*, T2952 *Gerbera piloselloides*, T3080 *Gymnema sylvestre*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3122 *Hedyotis acutangula*, T3123 *Hedyotis auricularia*, T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*], T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3308 *Hydrangea umbellata*, T3332 *Hypocoum erectum*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3398 *Ilex rotunda*, T3457 *Iris dichotoma*, T3461 *Iris japonica*, T3471 *Iris tectorum*, T3479 *Isodon amethystoides*, T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3643 *Kopsia officinalis*, T3659 *Lactuca indica*, T3736 *Lemmaphyllum microphyllum*, T3764 *Lepisorus thunbergianus*, T3779 *Leucas aspera*, T3852 *Lindera megaphylla*, T3928 *Lotus corniculatus*, T3932 *Ludwigia octovalvis*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*], T3988 *Lycoris squamigera*, T3990 *Lygodium japonicum*, T3996 *Lysimachia candida*, T4000 *Lysimachia congestiflora*, T4002 *Lysimachia foenum-graecum*, T4091 *Malva sylvestris*, T4120 *Marsdenia tenacissima*, T4121 *Marsilea quadrifolia*, T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*], T4182 *Menispermum dauricum*, T4183 *Menispermum dauricum*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*], T4210 *Michelia*

champaca, T4260 *Moghania philippinensis*, T4335 *Mussaenda pubescens*, T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*], T4538 *Oroxylum indicum*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4568 *Oxytropis myriophylla*, T4605 *Panax japonicus* var. *major*, T4710 *Pericampylus glaucus*, T4740 *Petasites japonicus*, T4798 *Philonotis fontana*, T4845 *Physalis alkekengi*, T4848 *Physalis angulata*, T4854 *Physalis pubescens*, T4859 *Physochlaina physaloides*, T4884 *Picria felterrae*, T4979 *Pistacia chinensis*, T5011 *Platycodon grandiflorum*, T5072 *Polygala caudata*, T5100 *Polygonum chinense*, T5120 *Polygonum tinctorium*, T5171 *Porphyra tenera*, T5172 *Portulaca grandiflora*, T5184 *Potentilla kleiniana*, T5209 *Pronephrum simplex* [Syn. *Meniscium simplex*], T5339 *Pycnoporus sanguineus*, T5396 *Rabdosia rubescens*, T5423 *Rauwolfia verticillata*, T5424 *Rauwolfia verticillata*, T5425 *Rauwolfia verticillata* f. *rubrocarpa*, T5426 *Rauwolfia verticillata* var. *hainanensis*, T5427 *Rauwolfia vomitoria*, T5435 *Rauwolfia latifrons*, T5441 *Rauwolfia perakensis*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5449 *Reineckea carnea*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5557 *Rohdea japonica* [Syn. *Orontium japonicum*], T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T5592 *Rubus hirsutus*, T5606 *Rumex acetosa*, T5685 *Salvia plebeia*, T5687 *Salvia prionitis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*, T5836 *Scutellaria discolor*, T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*], T5857 *Sedum sarmentosum*, T5861 *Selaginella doederleini*, T5953 *Silene firma*, T5954 *Silene fortunei*, T6023 *Solidago virgaurea*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*], T6046 *Sophora vicifolia*, T6047 *Sophora vicifolia*, T6084 *Spiraea prunifolia*, T6086 *Spiraea thunbergii*, T6087 *Spiranthes sinensis*, T6092 *Stachys palustris*, T6116 *Stenoloma chusanum*, T6119 *Stephania cepharantha*, T6128 *Stephania hernandifolia*, T6129 *Stephania japonica*, T6183 *Strychnos nitida*, T6217 *Swertia davidii*, T6234 *Swertia punicea*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6277 *Tadehagi triquetrum*, T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6560 *Tulipa edulis*, T6566 *Tupistra chinensis*, T6582 *Tylophora ovata*, T6655 *Ustilaginoidea virens*, T6866 *Zanthoxylum avicennae*.

swelling pain of scrotum T5548 *Ricinus communis*.

swelling pain of sore and boil T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1727 *Corydalis mucronifera*, T3248 *Hibiscus tiliaceus*, T3659 *Lactuca indica*, T4956 *Piper mullesua*, T6488 *Trachyspermum ammi*.

swelling pain of sores T1359 *Chenopodium album*, T4526 *Origanum vulgare*, T5106 *Polygonum lapathifolium*, T6231 *Swertia pseudochinensis*.

swelling pain of welling abscess and flat abscess T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.

swelling pain of welling abscess and sore T0314 *Allium fistulosum*,

T0324 *Allium victorialis*, T0334 *Aloe arborescens* var. *natalensis*, T0470 *Anemone raddeana*, T2752 *Fordia cauliflora*, T2973 *Glechoma longituba*, T4109 *Marchantia polymorpha*, T4605 *Panax japonicus* var. *major*, T5712 *Sanguisorba officinalis*, T5813 *Scilla scilloides*, T5871 *Selenarctos tibetanus*; *Ursus arctos*.

swelling toxin malignant sore T3555 *Jasminum nudiflorum*.

swelling toxin of clove sore T0388 *Amaranthus lividus*, T0938 *Bidens bipinnata*, T1210 *Carpesium abrotanoides*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1573 *Clinopodium chinense*, T1819 *Crotalaria ferruginea*, T2538 *Euonymus bungeanus*, T3243 *Hibiscus rosa-sinensis*, T3932 *Ludwigia octovalvis*, T5267 *Psidium guajava*, T5295 *Pteris multifida*, T6301 *Taraxacum mongolicum*, T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], T6553 *Trollius ledebourii*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].

swelling toxin of clove swelling abscess T1311 *Centella asiatica*.

swelling toxin of flat abscess T0077 *Aconitum balfourii*, T0084 *Aconitum carmichaeli*, T0105 *Aconitum karakolicum*, T0108 *Aconitum kusnezoffii*, T5639 *Sabina chinensis*, T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*].

swelling toxin of incised wound T5793 *Schisandra henryi*.

swelling toxin of limbs T2650 *Excoecaria agallocha*.

swelling toxin of sore and boil T0267 *Ajuga nipponensis*, T1190 *Caragana jubata*, T2033 *Daphniphyllum macropodum*, T2941 *Gentianopsis paludosa*, T3187 *Helleborus tibetanus*, T3308 *Hydrangea umbellata*, T3349 *Hypericum erectum*, T3479 *Isodon amethystoides*, T3547 *Ixeris chinensis*, T4261 *Mollugo pentaphylla*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T5444 *Reboulia hemisphaerica*, T6025 *Sonchus arvensis*, T6075 *Spilanthes acmella*.

swelling toxin of sore and lichen T6069 *Speranskia tuberculata*.

swelling toxin of sore and scab T3649 *Laccifer lacca*.

swelling toxin of sore and swelling abscess T0015 *Abutilon indicum*, T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T0721 *Arundina chinensis*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1952 *Cynanchum auriculatum*, T1953 *Cynanchum bungei*, T1962 *Cynanchum versicolor*, T2732 *Firmiana simplex*, T2826 *Galeola faberi*, T2839 *Gallus gallus domesticus*, T2952 *Gerbera piloselloides*, T2998 *Glycine max*, T3475 *Isatis indigotica*, T3670 *Lagerstroemia indica*, T3913 *Lonicera japonica*, T3988 *Lycoris squamigera*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4263 *Momordica charantia*, T4384 *Narcissus tazetta* var. *chinensis*, T4859 *Physochlaina physaloides*, T5010 *Platycarya strobilacea*, T5176 *Potamogeton natans*, T5181 *Potentilla chinensis*, T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5569 *Rosa multiflora*, T5654 *Salix purpurea*, T5821 *Scopolia japonica*, T6060 *Souliea vaginata*, T6131 *Stephania longa*, T6582 *Tylophora ovata*.

swelling toxin of swelling abscess and boil T0318 *Allium sativum*, T2206 *Dioscorea parviflora*, T2691 *Farfugium japonicum*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T3123 *Hedyotis auricularia*, T3356 *Hypericum japonicum*, T3361 *Hypericum perforatum*, T5415

Ranunculus sceleratus, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6118 *Stephania brachyandra*.

swelling toxin of swelling abscess and flat abscess T0310 *Allium ascalonicum*, T0471 *Anemone rivularis*, T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*], T0827 *Aucuba chinensis* ssp. *omeiensis*, T0994 *Boswellia carterii*, T1118 *Callicarpa formosana*, T1119 *Callicarpa japonica*, T1278 *Cedrela sinensis*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1451 *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], T1554 *Clerodendron cyrtophyllum*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1932 *Cyclea racemosa*, T2200 *Dioscorea hispida*, T2857 *Garcinia hanburyi*, T2866 *Garcinia morella*, T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3628 *Kerria japonica*, T3865 *Lippia nodiflora*, T4514 *Ophiorrhiza pumila*, T4904 *Pinellia ternata*, T5517 *Rhododendron molle*, T5550 *Ricinus communis*, T5607 *Rumex crispus*, T6133 *Stephania sinica*, T6166 *Strychnos angustiflora*.

swelling toxin of swelling abscess and sore T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0069 *Achillea wilsoniana*, T0106 *Aconitum kirinense*, T0135 *Aconitum sungpanense*, T0154 *Acroptilon repens*, T0157 *Actinidia callosa* var. *henryi*, T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*], T0190 *Adonis sutchuenensis*, T0229 *Ageratum conyzoides*, T0249 *Agrimonia pilosa* var. *japonica*, T0322 *Allium tuberosum*, T0371 *Alstonia mairei*, T0378 *Alstonia yunnanensis*, T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T0535 *Antidesma buniis*, T0601 *Ardisia pusilla*, T0661 *Artemisia anomala*, T0736 *Asclepias curassavica*, T0931 *Betula ermanii*, T0950 *Blatta orientalis*, T0955 *Bletilla striata*, T0959 *Blumea lacera*, T0977 *Bombyx mori*, T1001 *Brachystemma calycinum*, T1044 *Bryum argenteum*, T1084 *Buthus martensi*, T1172 *Canna edulis*, T1241 *Cassia occidentalis*, T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1449 *Cirsium japonicum*, T1644 *Conocephalum conicum*, T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*], T1813 *Crotalaria albida*, T2191 *Dioscorea bulbifera*, T2435 *Eriocheir sinensis*, T2510 *Eucalyptus globulus*, T2601 *Euphorbia milii*, T2723 *Ficus pumila*, T3000 *Glycine max*, T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza yunnanensis*, T3242 *Hibiscus rosa-sinensis*, T3311 *Hydrocotyle sibthorpioides*, T3329 *Hyoscyamus niger*, T3567 *Juglans regia*, T3632 *Knoxia valerianoides*, T3673 *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*], T3736 *Lemnaphyllum microphyllum*, T3770 *Lespedeza cuneata*, T3830 *Ligustrum sinense*, T3983 *Lycoris aurea*, T3996 *Lysimachia candida*, T4178 *Melodinus hemsleyanus*, T4208 *Metasequoia glyptostroboides*, T4252 *Mirabilis jalapa*, T4520 *Opuntia ficus-indica*, T4552 *Osmunda japonica*, T4568 *Oxytropis myriophylla*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4705 *Peperomia pellucida*, T4821 *Pholidota articulata*,

- T4823 *Pholidota yunnanensis*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*], T5002 *Plantago asiatica*, T5004 *Plantago depressa*, T5007 *Plantago major*, T5028 *Plumbago indica*, T5061 *Polianthes tuberosa*, T5087 *Polygala telephioides*, T5101 *Polygonum cuspidatum*, T5182 *Potentilla discolor*, T5391 *Rabdosia ericalyx*, T5468 *Rheum emodi* [Syn. *Rheum australe*], T5611 *Rumex japonicus*, T5612 *Rumex nepalensis*, T5613 *Rumex obtusifolius*, T5614 *Rumex patientia*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5685 *Salvia plebeia*, T5688 *Salvia przewalskii*, T5797 *Schisandra propinqua*, T5798 *Schisandra propinqua* var. *intermedia*, T5833 *Scutellaria amoena*, T5834 *Scutellaria baicalensis*, T5839 *Scutellaria hypericifolia*, T5841 *Scutellaria likiangensis*, T5843 *Scutellaria rehderiana*, T5845 *Scutellaria viscidula*, T5943 *Sida cordifolia*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5976 *Smilax china* [Syn. *Smilax japonica*], T5978 *Smilax glauco-china*, T6116 *Stenoloma chusanum*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*], T6183 *Strychnos nitida*, T6278 *Tagetes erecta*, T6414 *Thalictrum thunbergii*, T6436 *Thlaspi arvense*, T6510 *Trichosanthes kirilowii*, T6511 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6691 *Veratrum baillonii*.
- swelling toxin sores** T1371 *Chloranthus japonicus*, T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*].
- swelling welling abscess and sore and boil** T1784 *Cratogeomys cochinchinense*, T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*], T3548 *Ixeris sonchifolia*, T4730 *Peristrophe roxburghiana*, T4798 *Philonotis fontana*, T6403 *Thalictrum petaloideum*.
- swift digestion with rapid hungering** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*].
- swollen and painful eyes** T2274 *Dryobalanops aromatica*.
- swollen boil** T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1101 *Caesalpinia decapetala*, T1417 *Cimicifuga acerina*, T1555 *Clerodendron fortunatum*, T2290 *Duchesnea indica*, T2325 *Eichhornia crassipes*, T2830 *Galium aparine*, T4884 *Picria felterrae*, T5120 *Polygonum tinctorium*, T5592 *Rubus hirsutus*, T5595 *Rubus parviflorus*, T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*], T6431 *Thesium chinense*, T6912 *Zinnia elegans*.
- swollen boil and malign sore** T3737 *Lemnaphyllum microphyllum* var. *obovatum*.
- swollen boil with pus and ulcer** T4391 *Nauclea officinalis*.
- swollen hard breast** T2028 *Daphne odora*.
- swollen liver and spleen due to bilharziosis** T1162 *Camptotheca acuminata*, T5189 *Pothos chinensis*.
- swollen pain due to bleeding** T1215 *Carthamus tinctorius*.
- swollen pain in red eyes due to liver heat** T5871 *Selenarctos thibetanus*; *Ursus arctos*.
- swollen pain of sore toxin** T1728 *Corydalis ochotensis*.
- swollen sore of welling abscess and boil** T0264 *Ajuga forrestii*, T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*], T2262 *Dregea sinensis*, T4219 *Microlepis marginata*.
- swollen throat** T1311 *Centella asiatica*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*.
- swollen welling abscess** T0175 *Adiantum pedatum*, T0379 *Alternanthera philoxeroides*, T0468 *Anemone hupehensis*, T0516 *Anser cygnoides domestica*, T0544 *Apium graveolens*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0641 *Aristolochia tuberosa*, T0952 *Blechnum orientale*, T0976 *Bombyx mori*, T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*], T1046 *Buddleja davidii*, T1106 *Caesalpinia minax*, T1275 *Cayratia japonica*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T1756 *Costus speciosus*, T1866 *Cryptolepis sinensis*, T1880 *Cucurbita moschata*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2231 *Diphylleia grayi*, T2232 *Diphylleia sinensis*, T2296 *Duranta repens*, T2298 *Dysosma difformis*, T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*], T2304 *Dysosma veitchii*, T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*], T2357 *Emilia sonchifolia*, T2365 *Enteromorpha clathrata*, T2517 *Eucalyptus robusta*, T2563 *Eupatorium japonicum*, T2591 *Euphorbia humifusa*, T2608 *Euphorbia pekinensis*, T2628 *Euphrasia officinalis*, T2659 *Fagopyrum esculentum*, T2717 *Ficus carica*, T2746 *Foeniculum vulgare*, T2787 *Fritillaria hupehensis*, T2790 *Fritillaria pallidiflora*, T2800 *Fritillaria walujewii*, T2946 *Geranium robertianum*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3163 *Helicteres angustifolia*, T3174 *Heliotropium indicum*, T3241 *Hibiscus mutabilis*, T3244 *Hibiscus syriacus*, T3410 *Impatiens balsamina*, T3418 *Incarvillea arguta*, T3423 *Indigofera tinctoria*, T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*], T3476 *Isatis indigotica*, T3668 *Lagenaria siceraria* var. *depressa*, T3687 *Lantana camara*, T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*], T3887 *Litsea glutinosa*, T3998 *Lysimachia christinae*, T4050 *Magnolia sieboldii*, T4106 *Manis pentadactyla*, T4265 *Momordica cochinchinensis*, T4572 *Pachyrhizus erosus*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T4672 *Patrinia scabiosaefolia*, T4676 *Patrinia villosa*, T4903 *Pinellia pedatisecta*, T4983 *Pisum sativum*, T5073 *Polygala chinensis* [Syn. *Polygala glomerata*], T5099 *Polygonum bistorta*, T5100 *Polygonum chinense*, T5104 *Polygonum hydropiper*, T5121 *Polygonum tinctorium*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T5194 *Premna microphylla*, T5199 *Primula malacoides*, T5230 *Prunus persica*, T5375 *Quercus mongolica*, T5402 *Radermachera sinica*, T5413 *Ranunculus cantoniensis*, T5414 *Ranunculus japonicus*, T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5449 *Reineckea carnea*, T5562 *Rosa chinensis*, T5750 *Saururus chinensis*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5850 *Sedum aizoon*, T5855 *Sedum kamschatcicum*, T5857 *Sedum sarmentosum*, T5977 *Smilax glabra*, T5980 *Smilax menispermoides*, T5998 *Solanum dulcamara*, T6006 *Solanum melongena*, T6008 *Solanum nigrum*, T6015 *Solanum torvum*, T6017 *Solanum tuberosum*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6121 *Stephania dicentrifera*, T6129 *Stephania japonica*, T6137 *Stephania*

viridiflavens, T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*], T6264 *Syzygium buxifolium*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6386 *Thalictrum foetidum*, T6484 *Trachelospermum jasminoides*, T6499 *Tribulus terrestris*, T6507 *Trichosanthes cucumeroides*, T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6580 *Tylophora floribunda*, T6588 *Typhonium giganteum*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6799 *Vitis vinifera*.

swollen welling abscess and clove sores T0071 *Achyranthes aspera*, T0072 *Achyranthes aspera* var. *indica*, T0263 *Ajuga decumbens*, T0625 *Aristolochia contorta*, T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*], T1043 *Bryophyllum pinnatum*, T1393 *Chrysanthemum indicum*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2753 *Formica fusca*, T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3859 *Linum usitatissimum*, T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*], T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4020 *Macleaya cordata*, T4506 *Ophioglossum vulgatum*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5173 *Portulaca oleracea*, T5472 *Rheum officinale*, T5474 *Rheum palmatum*, T5481 *Rheum tanguticum*, T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*], T5524 *Rhododendron simsii*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5567 *Rosa laevigata*, T5724 *Sapium sebiferum*, T6048 *Sophora viciifolia*, T6206 *Sus scrofa domestica*, T6257 *Syngnathus acus*.

swollen welling abscess and malign sore T0073 *Achyranthes bidentata*, T0122 *Aconitum pendulum*, T0635 *Aristolochia moupinensis*, T2213 *Dioscorea zingiberensis*.

swollen welling abscess and scrofula T5029 *Plumbago zeylanica*, T5547 *Ricinus communis*.

swollen welling abscess and sore toxin T0001 *Abelmoschus manihot*, T0586 *Arctium lappa*, T0871 *Barleria lupulina*, T2555 *Eupatorium chinense*, T4121 *Marsilea quadrifolia*, T4704 *Peperomia duclouxii*, T5604 *Rudbeckia laciniata*, T6135 *Stephania succifera*, T6566 *Tupistra chinensis*.

swollen welling abscess and sores T0374 *Alstonia scholaris*, T1425 *Cimicifuga simplex*, T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*], T3764 *Lepisorus thunbergianus*, T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T4056 *Mahonia bealei*, T4060 *Mahonia confusa*, T4063 *Mahonia fortunei*, T4064 *Mahonia gracilipes*, T4067 *Mahonia japonica*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*, T5103 *Polygonum hydropiper*, T5234 *Prunus persica*, T6034 *Sophora japonica*, T6087 *Spiranthes sinensis*, T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*].

swollen welling abscess and toxin of clove T0174 *Adiantum monochlamys*, T1021 *Brassica rapa*, T1242 *Cassia occidentalis*, T1633 *Commelina communis*, T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*], T4740 *Petasites japonicus*, T5840 *Scutellaria indica*, T6023 *Solidago virgaurea*.

swollen welling abscess and toxin of clove sore T3363 *Hypericum sampsonii*.

swollen welling abscess of sore and boil T0750 *Asparagus gobicus*.

syphilis T0610 *Argemone mexicana*, T2200 *Dioscorea hispida*, T3200 *Hemidesmus indicus*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T4813 *Phlomis tuberosa*, T5401 *Rabdosia yuennanensis*, T5977 *Smilax glabra*, T5980 *Smilax menispermoides*, T6219 *Swertia erythrosticta*.

systemma T4575 *Pachysandra terminalis*.

tachycardia T5516 *Rhododendron molle*.

taenia infection T0318 *Allium sativum*.

taeniasis T0250 *Agrimonia pilosa* var. *japonica*, T0251 *Agrimonia pilosa* var. *japonica*, T0957 *Blumea balsamifera*, T1211 *Carpesium abrotanoides*, T1881 *Cucurbita moschata*, T2049 *Daucus carota*, T2277 *Dryopteris austriaca*, T2346 *Embelia oblongifolia*, T3688 *Lappula echinata*, T4083 *Mallotus philippinensis*, T4084 *Mallotus philippinensis*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T4364 *Myrsine semiserrata*, T4779 *Pharbitis nil*, T4780 *Pharbitis purpurea*, T5327 *Punica granatum*, T5329 *Punica granatum*.

taxation cough T5483 *Rhinacanthus nasutus*.

taxation damage T1417 *Cimicifuga acerina*, T1423 *Cimicifuga nanchuanensis*, T1786 *Cremanthodium ellisii*, T3802 *Ligularia dentata*, T3805 *Ligularia fischeri*, T3807 *Ligularia intermedia*, T3813 *Ligularia sibirica*, T4859 *Physochlaina physaloides*, T4954 *Piper longum*, T5722 *Sapium japonicum*, T6367 *Teucrium quadrifarium*.

taxation damage and blood ejection T1003 *Brandisia hancei*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T4510 *Ophiorrhiza japonica*, T4513 *Ophiorrhiza mungos*, T5793 *Schisandra henryi*.

taxation damage and coughing of blood T1884 *Cudrania cochinchinensis*.

taxation damage and lumbago T1552 *Cleome viscosa*, T4444 *Nothopanax davidii*, T4604 *Panax japonicus* var. *bipinnatifidus*, T5981 *Smilax riparia*, T6009 *Solanum pseudo-capsicum*.

taxation damage and pain T4562 *Oxalis acetosella*, T6128 *Stephania hernandifolia*.

taxation damage and sinew bone pain T2087 *Delphinium tatsienense*, T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*], T4234 *Milletia dielsiana*.

taxation damage and strength desertion T0598 *Ardisia japonica*.

taxation damage cough T0924 *Bergenia purpurascens*, T6266 *Syzygium cumini*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*.

taxation damage due to knocks and falls T5230 *Prunus persica*.

taxation damage fever T5954 *Silene fortunei*.

taxation damage hemoptysis T1683 *Cordyceps sinensis*, T3276 *Homo sapiens*, T4248 *Mimosa pudica*, T5529 *Rhodomyrtus tomentosa*, T6722 *Veronica anagallis-aquatica*.

taxation damage hypodynamia T2211 *Dioscorea tenuipes*.

taxation damage in lumbar muscle T0048 *Acanthus ilicifolius*, T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*], T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T0886 *Beaumontia grandiflora*, T1958 *Cynanchum otophyllum*, T2267 *Drosera peltata* var. *lunata*, T2737 *Flemingia philippinensis* [Syn. *Moghania*

- philippinensis*], T3318 *Hylotelephium mingjinianum*, T3400 *Illicium difengpi*, T3403 *Illicium majus*, T3969 *Lycopodium casuarinoides*, T4260 *Moghania philippinensis*, T4284 *Morinda parvifolia*, T5279 *Psychotria serpens*, T5746 *Sassafras tzumu*, T6015 *Solanum torvum*, T6468 *Tinospora sinensis*, T6689 *Ventilago leiocarpa*, T6830 *Woodfordia fruticosa*.
- taxation damage pain in lumbus and legs** T0298 *Alectoria vivens*, T3776 *Lethariella zahlbruckneri*.
- taxation detriment and sprain** T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*.
- taxation detriment due to knocks and falls** T2205 *Dioscorea panthaica*.
- taxation fatigue and hypodynamia** T5075 *Polygala fallax* [Syn. *Polygala aureocauda*].
- taxation fever** T2994 *Gloiopeltis furcata*, T3277 *Homo sapiens*, T5407 *Rana nigromaculata*; *Rana plancyi*.
- taxation fever cough** T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- taxation fever steaming bone** T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*.
- tearing in wind** T2408 *Equisetum hiemale*, T2409 *Equisetum palustre*.
- tearing with wind** T3564 *Juglans mandshurica*.
- temporomandibular lymphadenitis** T0975 *Bombyx mori*.
- tenesmus** T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*].
- terrene leech bite** T2567 *Eupatorium odoratum*.
- testitis** T0594 *Ardisia crenata*, T2723 *Ficus pumila*, T3270 *Holboellia fargesii*, T4100 *Mangifera indica*, T6264 *Syzygium buxifolium*.
- tetanus** T0088 *Aconitum coreanum*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T0979 *Bombyx mori*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1084 *Buthus martensi*, T2890 *Gastrodia elata*, T4903 *Pinellia pedatisecta*, T5547 *Ricinus communis*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*], T5817 *Scolopendra subspinipes mutilans*, T5822 *Scopolia sinensis*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5998 *Solanum dulcamara*, T6588 *Typhonium giganteum*, T6903 *Zephyranthes candida*.
- tetradon poisoning** T3685 *Lannea grandis* [Syn. *Lannea coromandelica*], T3726 *Laurus nobilis*, T3815 *Ligularia stenocephala*.
- thirst** T2763 *Fragaria ananassa*, T2867 *Garcinia multiflora*, T3163 *Helicteres angustifolia*, T3921 *Lophatherum gracile*, T3962 *Lycopersicon esculentum*, T4029 *Maesa japonica*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*.
- thirst due to spontaneous sweating** T5260 *Pseudostellaria heterophylla*.
- thirst with dry throat** T4610 *Panax quinquefolium*, T5186 *Potentilla reptans* var. *sericophylla*.
- three worms** T1232 *Cassia fistula*.
- throat erosion** T5408 *Rana nigromaculata*; *Rana plancyi*.
- throat impediment** T0318 *Allium sativum*, T0950 *Blatta orientalis*, T0992 *Bos taurus domesticus*; *Bubalus bubalis*, T1008 *Brassica juncea*, T1210 *Carpesium abrotanoides*, T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*], T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1858 *Croton tiglium*, T1876 *Cucumis melo*, T1981 *Cyprinus carpio*, T2191 *Dioscorea bulbifera*, T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*], T2434 *Eriocaulon buergerianum*, T2756 *Forsythia suspensa*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3277 *Homo sapiens*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3476 *Isatis indigotica*, T3578 *Juncus effusus*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4537 *Oroxylum indicum*, T4544 *Oryza sativa*, T4648 *Paris polyphylla*, T4649 *Paris polyphylla* var. *chinensis*, T4650 *Paris polyphylla* var. *pseudothibetica*, T4651 *Paris polyphylla* var. *stenophylla*, T4652 *Paris polyphylla* var. *yunnanensis*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5121 *Polygonum tinctorium*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T5550 *Ricinus communis*, T5840 *Scutellaria indica*, T6035 *Sophora japonica*, T6131 *Stephania longa*, T6206 *Sus scrofa domestica*, T6484 *Trachelospermum jasminoides*, T6645 *Urena lobata*, T6655 *Ustilagoidea vires*, T6709 *Verbena officinalis*, T6884 *Zanthoxylum nitidum*.
- throat impediment sore with gall** T5719 *Sapindus mukorossi*, T5720 *Sapindus mukorossi*.
- throat impediment with nipple moth** T2838 *Gallus gallus domesticus*, T5295 *Pteris multifida*.
- throat moth** T3865 *Lippia nodiflora*.
- throat pain** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0888 *Beesia calthaeifolia*, T1179 *Capparis masaiikai*, T1555 *Clerodendron fortunatum*, T1796 *Crinum asiaticum* var. *sinicum*, T1931 *Cyclea barbata*, T1932 *Cyclea racemosa*, T1961 *Cynanchum thesioides*, T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*], T3334 *Hypecoum leptocarpum*, T3361 *Hypericum perforatum*, T3475 *Isatis indigotica*, T3999 *Lysimachia clethroides*, T4221 *Micromelum falcatum*, T4519 *Opuntia dillenii*, T4521 *Opuntia vulgaris*, T4527 *Orixa japonica*, T4834 *Phyllanthus emblica*, T4846 *Physalis alkekengi* var. *franchetii*, T4852 *Physalis peruviana*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*], T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*], T6133 *Stephania sinica*, T6889 *Zanthoxylum podocarpum*, T6920 *Ziziphus mauritiana*.
- throat pain and swollen tongue** T1934 *Cyclea tonkinensis*.
- throat pain and throat impediment** T1787 *Cremastra appendiculata*.
- throat swelling** T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T3311 *Hydrocotyle sibthorpioides*.
- throat wind** T1858 *Croton tiglium*, T3984 *Lycoris chinensis*, T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*].
- thromboangiitis obliterans** T0967 *Boeninghausenia sessilicarpa*.

- thromboangiitis obliterans (buerger's disease)** T2538 *Euonymus bungeanus*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4917 *Pinus massoniana*.
- thrombocytopenia** T1337 *Cervus nippon*; *Cervus elaphus*.
- thrombocytopenic purpura** T0805 *Astragalus sinicus*.
- thrombophlebitis** T0495 *Angelica sinensis*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4804 *Phlojodicarpus sibiricus*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- thyroid enlargement** T2359 *Enderachne binghamiae*, T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*], T5214 *Prunella vulgaris*, T6598 *Ulva conglobata*.
- tidal fever** T5097 *Polygonum amphibium*, T6228 *Swertia nervosa*.
- tidal fever with night sweat** T3954 *Lycium barbarum*, T3956 *Lycium chinense*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- tinea capitis** T1285 *Celastrus angulatus*, T2023 *Daphne genkwa*, T2092 *Delphinus delphis*, T3363 *Hypericum sampsonii*, T3560 *Jatropha curcas*, T4157 *Melia azedarach*, T5010 *Platycarya strobilacea*, T5026 *Plumbagella micrantha*, T5455 *Rhamnus crenata*, T6489 *Tragopogon porrifolius*, T6541 *Tripterygium regelii*.
- tinnitus** T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T1819 *Crotalaria ferruginea*, T3142 *Helianthus annuus*, T3829 *Ligustrum robustum*, T5107 *Polygonum multiflorum*.
- tinnitus and deafness** T0142 *Acorus calamus*, T1337 *Cervus nippon*; *Cervus elaphus*, T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*, T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], T5927 *Sesamum indicum* [Syn. *Sesamum orientale*], T6234 *Swertia punicea*.
- tinnitus and dim vision** T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- toad head scourge** T5407 *Rana nigromaculata*; *Rana plancyi*.
- tongue sores** T0273 *Akebia quinata*, T0277 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0632 *Aristolochia manshuriensis*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevispala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3277 *Homo sapiens*, T3920 *Lophatherum gracile*, T4178 *Melodinus hemsleyanus*, T5099 *Polygonum bistorta*.
- tonsillitis** T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0967 *Boeninghausenia sessilicarpa*, T1545 *Clematis chinensis*, T1655 *Conyza blinii*, T1709 *Corydalis bungeana*, T1819 *Crotalaria ferruginea*, T2334 *Elephantopus scaber*, T2563 *Eupatorium japonicum*, T2697 *Ferula borealis*, T2721 *Ficus microcarpa*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3360 *Hypericum patulum*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T5018 *Pleuropterus ciliinervis*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6214 *Swertia chinensis*, T6301 *Taraxacum mongolicum*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*], T6691 *Veratrum baillonii*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- tooth decay** T3827 *Ligustrum japonicum*, T5651 *Salix babylonica*.
- tooth mobilizing** T2273 *Drynaria fortunei*, T2323 *Eclipta prostrata* [Syn. *Eclipta alba*], T5252 *Pseudodrynaria coronans*.
- toothache** T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0069 *Achillea wilsoniana*, T0079 *Aconitum brachypodum*, T0106 *Aconitum kirinense*, T0117 *Aconitum nagarum* var. *lasiandrum*, T0135 *Aconitum sungpanense*, T0471 *Anemone rivularis*, T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0479 *Angelica dahurica* cv. *qibaizhi*, T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T0498 *Angelica taiwaniana*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*], T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T0724 *Asarum caulescens*, T0726 *Asarum forbesii*, T0727 *Asarum fukienense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0730 *Asarum sagittarioides*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0834 *Averrhoa carambola*, T1084 *Buthus martensi*, T1092 *Buxus microphylla* var. *sinica*, T1210 *Carpesium abrotanoides*, T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1316 *Cephalanthus occidentalis*, T1650 *Convolvulus arvensis*, T1655 *Conyza blinii*, T1746 *Corydalis taliensis*, T1796 *Crinum asiaticum* var. *sinicum*, T1799 *Crinum latifolium*, T1931 *Cyclea barbata*, T1933 *Cyclea sutchuenensis*, T1955 *Cynanchum hancockianum*, T1959 *Cynanchum paniculatum*, T2023 *Daphne genkwa*, T2028 *Daphne odora*, T2056 *Debregeasia longifolia*, T2130 *Desmodium gangeticum*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T2340 *Elsholtzia bodinieri*, T2387 *Epilobium hirsutum*, T2434 *Eriocaulon buergerianum*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3213 *Heracleum hemsleyanum*, T3214 *Heracleum lanatum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3221 *Heracleum rapula*, T3228 *Heracleum yungningense*, T3328 *Hyoscyamus niger*, T3392 *Ilex kudingcha*, T3393 *Ilex latifolia*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3528 *Isodon ternifolia*, T3529 *Isodon ternifolius*, T3548 *Ixeris sonchifolia*, T3670 *Lagerstroemia indica*, T3675 *Lagopsis supina*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3779 *Leucas aspera*, T3796 *Libanotis buchtormensis*, T3829 *Ligustrum robustum*, T3876 *Litchi chinensis*, T3885 *Litsea cubeba*, T4002 *Lysimachia foenum-graecum*, T4349 *Myrica rubra*, T4361 *Myrsine africana*, T4470 *Ocimum basilicum*, T4527 *Oriza japonica*, T4549 *Osbeckia chinensis*, T4550 *Osmanthus fragrans*, T4827 *Photinia parvifolia*, T4953 *Piper longum*, T4956 *Piper mullesua*, T4966 *Piper sarmentosum*, T5109 *Polygonum nodosum*, T5142 *Poncirus trifoliata*, T5151 *Populus davidiana*, T5158 *Populus simonii*, T5266 *Psidium guajava*, T5308 *Pterocarya stenoptera*, T5374 *Quercus infectoria*, T5414 *Ranunculus japonicus*, T5592 *Rubus hirsutus*, T5650 *Salix babylonica*, T5690 *Salvia*

- roborowskii*, T5781 *Schefflera arboricola*, T5840 *Scutellaria indica*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T6000 *Solanum indicum*, T6003 *Solanum khasianum*, T6018 *Solanum verbascifolium*, T6020 *Solanum xanthocarpum*, T6028 *Sophora alopecuroides*, T6075 *Spilanthes acmella*, T6079 *Spiraea japonica*, T6082 *Spiraea japonica* var. *fortunei*, T6122 *Stephania dielsiana*, T6133 *Stephania sinica*, T6135 *Stephania succifera*, T6139 *Sterculia lychnophora*, T6217 *Swertia davidii*, T6224 *Swertia kouitchensis*, T6231 *Swertia pseudochinensis*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6278 *Tagetes erecta*, T6414 *Thalictrum thunbergii*, T6498 *Tribulus terrestris*, T6860 *Zanthoxylum ailanthoides*, T6862 *Zanthoxylum ailanthoides*, T6864 *Zanthoxylum armatum*, T6877 *Zanthoxylum dissitum*, T6884 *Zanthoxylum nitidum*, T6887 *Zanthoxylum planispinum*, T6888 *Zanthoxylum planispinum*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.
- torpid intake** T0210 *Agaricus bisporus*, T0211 *Agaricus campestris*, T3742 *Lentinus edodes*.
- toxemia** T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- toxic hepatitis** T0379 *Alternanthera philoxeroides*.
- toxic jaundice** T5101 *Polygonum cuspidatum*.
- toxin of clove sore** T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*], T5892 *Senecio nemorensis*.
- toxin of sore welling abscess and boils** T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*].
- toxin swelling** T0250 *Agrimonia pilosa* var. *japonica*, T0293 *Albizia lebbbeck*, T0598 *Ardisia japonica*, T0726 *Asarum forbesii*, T0924 *Bergenia purpurascens*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1240 *Cassia obtusifolia*, T1250 *Cassia tora*, T1624 *Colocasia antiquorum*, T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1928 *Cycas revoluta*, T2590 *Euphorbia hirta*, T2756 *Forsythia suspensa*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3662 *Lactuca sativa*, T3680 *Lamium amplexicaule*, T3681 *Lamium barbatum*, T5411 *Randia spinosa*, T5719 *Sapindus mukorossi*, T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T5987 *Sobina chinensis*, T6205 *Sus scrofa*.
- toxin swelling from hemorrhoids** T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*.
- toxin swelling of sores** T0045 *Acanthopanax trifoliatum*, T0079 *Aconitum brachypodum*, T0117 *Aconitum nagarum* var. *lasiandrum*, T0537 *Antirrhinum majus*, T0907 *Berberis kawakamii*, T0971 *Bolbostemma paniculatum*, T1087 *Buxus bodinieri*, T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1206 *Carica papaya*, T1437 *Cinnamomum camphora*, T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*], T1685 *Coreopsis lanceolata*, T1719 *Corydalis incisa*, T2205 *Dioscorea panthaica*, T2927 *Gentiana rhodantha*, T3222 *Heracleum scabridum*, T3247 *Hibiscus taiwanensis*, T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*], T3646 *Kyllinga brevifolia*, T3765 *Lepisorus ussuriensis*, T3847 *Lindera angustifolia*, T3851 *Lindera glauca*, T3863 *Liparis nervosa*, T3885 *Litsea cubeba*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3969 *Lycopodium casuarinoides*, T4104 *Manihot esculenta*, T4248 *Mimosa pudica*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4456 *Nymphoides peltatum*, T4660 *Parthenium hysterophorus*, T4686 *Pedilanthus tithymaloides*, T4710 *Pericampylus glaucus*, T4799 *Philydrum lanuginosum*, T4937 *Piper betle*, T5184 *Potentilla kleiniana*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5714 *Sansevieria trifasciata*, T5806 *Schlumbergera truncata*, T5838 *Scutellaria galericulata*, T5884 *Senecio chrysanthemoides*, T5942 *Sida acuta*, T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*], T6127 *Stephania glabra*, T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*], T6378 *Thalictrum delavayi*, T6469 *Tithonia diversifolia*, T6512 *Trichosanthes kirilowii*, T6541 *Tripterygium regelii*, T6750 *Vicia sativa*, T6820 *Wikstroemia indica*.
- toxin swelling of sores and open sores** T5817 *Scolopendra subspinipes mutilans*.
- trachitis** T1050 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1387 *Chrysanthemum boreale*, T1392 *Chrysanthemum indicum*, T1394 *Chrysanthemum lavandulifolium*, T2697 *Ferula borealis*, T4275 *Monotropa hypopitys*, T5396 *Rabdosia rubescens*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- trachoma** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- trance** T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*].
- trichomonal vaginitis** T4158 *Melia azedarach*.
- trichomonas vaginalis** T3420 *Incarvillea sinensis*, T3560 *Jatropha curcas*.
- trichomoniasis** T0248 *Agrimonia pilosa*, T0311 *Allium cepa*, T0318 *Allium sativum*, T1582 *Cnidium monnieri*, T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3245 *Hibiscus syriacus*, T4020 *Macleaya cordata*, T5234 *Prunus persica*, T5308 *Pterocarya stenoptera*, T5719 *Sapindus mukorossi*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*], T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6048 *Sophora viciifolia*.
- trichuriasis** T6101 *Stauntonia hexaphylla*.
- trigeminal neuralgia** T2890 *Gastrodia elata*.
- try to using for carcinoma of stomach and carcinoma of esophagus** T4704 *Peperomia duclouxii*.
- tuberculosis** T0163 *Actinidia latifolia*, T0318 *Allium sativum*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0641 *Aristolochia tuberosa*, T0752 *Asparagus officinalis*, T1680 *Cordyceps militaris*, T1681 *Cordyceps militaris* cv, T2101 *Dendrobium fimbriatum*, T2359 *Endarachne binghamiae*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2756 *Forsythia suspensa*, T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3011 *Glycyrrhiza aspera*, T3013 *Glycyrrhiza glabra*, T3015 *Glycyrrhiza inflata*, T3016 *Glycyrrhiza kansuensis*, T3021 *Glycyrrhiza squamulosa*, T3022 *Glycyrrhiza uralensis*, T3023 *Glycyrrhiza*

- yunnanensis*, T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T3289 *Humulus lupulus*, T3709 *Lathyrus pratensis*, T4005 *Lysionotus pauciflorus*, T4039 *Magnolia grandiflora*, T4145 *Meconopsis punicea*, T4280 *Morinda citrifolia*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T5071 *Polygala arillata*, T6055 *Sorbus tianschanica*, T6075 *Spilanthes acmella*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6132 *Stephania sasakii*, T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*], T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6574 *Tussilago farfara*, T6731 *Veronicastrum sibiricum*.
- tuberculosis and coughing of blood** T1746 *Corydalis taliensis*, T5586 *Rubia yunnanensis*, T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*].
- tuberculosis and hacking of blood** T4730 *Peristrophe roxburghiana*.
- tuberculosis and hemoptysis** T0226 *Agave sisalana*, T0598 *Ardisia japonica*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1728 *Corydalis ochotensis*, T1866 *Cryptolepis sinensis*, T4056 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4361 *Myrsine africana*, T4519 *Opuntia dillenii*, T4520 *Opuntia ficus-indica*, T4521 *Opuntia vulgaris*, T4823 *Pholidota yunnanensis*, T5119 *Polygonum thunbergii*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5613 *Rumex obtusifolius*, T6251 *Symplocos caudata*, T6747 *Vicia faba*, T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*].
- tuberculosis and vacuity** T4505 *Ophiocephalus argus*.
- tuberculosis tidal fever** T0678 *Artemisia japonica*.
- tuberculosis with blood ejection** T4506 *Ophioglossum vulgatum*.
- tuberculosis with cough** T0500 *Anguilla japonica*, T0749 *Asparagus filicinus*, T2727 *Ficus simplicissima*, T5133 *Polytrichum commune*, T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*].
- tuberculosis fistula** T2589 *Euphorbia helioscopia*.
- tumor** T0165 *Actinidia rubricaulis* var. *coriacea*.
- turbid vaginal discharge** T5186 *Potentilla reptans* var. *sericophylla*.
- tympanites** T1884 *Cudrania cochinchinensis*, T2092 *Delphinus delphis*, T6548 *Tritonia crocosmaeflora*.
- tympanitis** T6131 *Stephania longa*.
- typhoid fever** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *brevisepala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T5907 *Senecio scandens* [Syn. *Senecio chinensis*].
- ulcer** T0311 *Allium cepa*, T1043 *Bryophyllum pinnatum*, T1727 *Corydalis mucronifera*, T2274 *Dryobalanops aromatica*, T2857 *Garcinia hanburyi*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- ulcer in gastrointestinal tract** T0495 *Angelica sinensis*, T4804 *Phlojodicarpus sibiricus*, T6656 *Ustilago maydis*.
- ulcer of lower limb** T0446 *Anaphalis margaritacea*, T1994 *Daemonorops draco*, T2253 *Dracaena cochinchinensis*, T2337 *Elephas maximus*, T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*], T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3560 *Jatropha curcas*, T4020 *Macleaya cordata*, T4391 *Nauclea officinalis*, T5978 *Smilax glauco-china*.
- ulcer of uterine cervix** T4020 *Macleaya cordata*, T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*].
- ulcerating sore and boil** T5385 *Quisqualis indica*.
- ulcerating sore of leg** T5415 *Ranunculus sceleratus*.
- ulcerating sore toxin** T2279 *Dryopteris championii*.
- ulcerating sores** T1251 *Cassytha filiformis*, T1285 *Celastrus angulatus*, T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*], T1552 *Cleome viscosa*, T2188 *Dioscorea alata*, T2989 *Glochidion sphaerogynum*, T4006 *Lythrum anceps*, T4007 *Lythrum salicaria*, T4500 *Onosma paniculatum*, T6476 *Torilis japonica*.
- ulcerating welling abscess and sore** T2852 *Garcinia cowa*.
- ulcerative bleeding** T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*].
- ulcerative colitis** T3106 *Harpagophytum procumbens*.
- unctuous strangury** T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*], T2212 *Dioscorea tokoro*.
- upflaming vacuity fire** T1961 *Cynanchum thesioides*.
- urethral stone** T1553 *Clerodendranthus spicatus*, T1823 *Crotalaria juncea*, T2134 *Desmodium styracifolium*, T2325 *Eichhornia crassipes*, T2749 *Fomes officinalis*, T3143 *Helianthus annuus*, T4000 *Lysimachia congestiflora*, T4148 *Medicago sativa*, T4149 *Medicago sativa*, T4432 *Nigella glandulifera*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua* T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T6264 *Syzygium buxifolium*, T6488 *Trachyspermum ammi*, T6902 *Zea mays*.
- urethritis** T2119 *Derris eriocarpa*, T3187 *Helleborus thibetanus*, T5098 *Polygonum aviculare*.
- urinary and fecal stoppage** T0382 *Althaea rosea*, T0389 *Amaranthus tricolor*, T1390 *Chrysanthemum coronarium*, T1397 *Chrysanthemum segetum*, T2596 *Euphorbia kansui*, T2597 *Euphorbia lathyris*, T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T4091 *Malva sylvestris*, T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*], T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*], T5723 *Sapium sebiferum*.
- urinary incontinence** T3742 *Lentinus edodes*, T4283 *Morinda officinalis*.
- urinary stoppage** T0310 *Allium ascalonicum*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T3066 *Gryllulus chinensis*, T4562 *Oxalis acetosella*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua* T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T5605 *Rumex acetosa*, T5651 *Salix babylonica*.
- urinary strangury** T2723 *Ficus pumila*.
- urinary tract infection** T0015 *Abutilon indicum*, T0195 *Aeginetia indica*, T0776 *Asplenium prolongatum*, T0897 *Berberis amurensis*, T0912 *Berberis poirerii*, T0920 *Berberis wilsonae*, T0933 *Betula platyphylla*, T0935 *Betula platyphylla* var. *japonica*, T1450 *Cirsium lineare*, T1557 *Clerodendron indicum*, T1969 *Cynoglossum officinale*, T2143 *Dianthus chinensis*, T2145 *Dianthus superbus*, T2147 *Dianthus versicolor*, T2233 *Diploclisia glaucescens*, T2357 *Emilia sonchifolia*, T2908 *Gentiana cephalantha*, T2921 *Gentiana manshurica*, T2928

- Gentiana rigescens*, T2930 *Gentiana scabra*, T2938 *Gentiana triflora*, T3122 *Hedyotis acutangula*, T3203 *Hemsleya amabilis*, T3208 *Hemsleya macrosperma*, T3284 *Houttuynia cordata*, T3361 *Hypericum perforatum*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3594 *Juniperus rigida*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4391 *Nauclea officinalis*, T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*, T4843 *Phyllanthus urinaria*, T5207 *Prismatomeris tetrandra*, T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5354 *Pyrrosia davidii*, T5355 *Pyrrosia drakeana*, T5356 *Pyrrosia gralla*, T5357 *Pyrrosia lingua*, T5358 *Pyrrosia petiolosa*, T5360 *Pyrrosia sheareri*, T5393 *Rabdosia longituba*, T5639 *Sabina chinensis*, T6129 *Stephania japonica*, T6217 *Swertia davidii*, T6794 *Vitis amurensis*.
- urinary turbidity** T0323 *Allium tuberosum*.
- urticari with sore and scab** T1160 *Campsis grandiflora*.
- urticaria** T0539 *Apis cerana*, T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T1959 *Cynanchum paniculatum*, T2020 *Damnacanthus indicus*, T2835 *Galium verum*, T2988 *Glochidion eriocarpum*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3628 *Kerria japonica*, T3742 *Lentinus edodes*, T3847 *Lindera angustifolia*, T4247 *Millingtonia hortensis*, T4801 *Phlegmariurus phlegmaria* [Syn. *Lycopodium phlegmaria*], T5455 *Rhamnus crenata*, T5524 *Rhododendron simsii*, T5639 *Sabina chinensis*, T5987 *Sobina chinensis*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*.
- uterine bleeding** T2426 *Erigeron sumatrensis*, T3926 *Loropetalum chinense*.
- uterus cold** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T4599 *Panax ginseng* [Syn. *Panax schinseng*].
- uterus cold and abdominal pain** T5755 *Saussurea involucreta*.
- vacuity and edema** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T3128 *Hedysarum multijugum*.
- vacuity and fever** T4810 *Phlomis mongolica*.
- vacuity and hypodynamia** T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T3085 *Gynostemma pentaphyllum*, T3229 *Hericium erinaceus* [Syn. *Hydnum erinaceus*], T6803 *Volvariella volvacea*.
- vacuity and marked emaciation** T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T5091 *Polygonatum cyrtoneura* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- vacuity and profuse sweating** T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*], T4600 *Panax ginseng* [Syn. *Panax schinseng*], T5097 *Polygonum amphibium*, T6919 *Ziziphus jujuba* var. *spinosa*.
- vacuity asthma** T5186 *Potentilla reptans* var. *sericophylla*, T5270 *Psoralea corylifolia*, T6266 *Syzygium cumini*.
- vacuity cold and abdominal pain** T2955 *Geum japonicum*.
- vacuity cold and hiccough** T1168 *Canavalia ensiformis*, T1169 *Canavalia gladiata*.
- vacuity cold chronic diarrhea and dysentery** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.
- vacuity cold cough asthma** T3221 *Heracleum rapula*.
- vacuity cold diarrhea** T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T4859 *Physochlaina physaloides*.
- vacuity cold in lumbus and knees** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- vacuity cold of kidney and bladder** T6870 *Zanthoxylum bungeanum*.
- vacuity cold of uterus** T4283 *Morinda officinalis*.
- vacuity cold vomiting and diarrhea** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- vacuity constipation** T0554 *Aquilaria agallocha*, T0555 *Aquilaria sinensis*, T1972 *Cynomorium songaricum*, T4912 *Pinus koraiensis*.
- vacuity consumption with cough** T3875 *Liriope spicata* var. *prolifera*, T4507 *Ophiopogon japonicus*.
- vacuity cough** T4516 *Oplonanax elatus*.
- vacuity desertion due to great sweating** T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*].
- vacuity desertion failure** T4682 *Pedicularis muscicola*.
- vacuity detriment** T1017 *Brassica oleracea* var. *capitata*, T1888 *Cudrania tricuspidata*, T3279 *Homo sapiens*, T4820 *Phoenix dactylifera*, T5872 *Selenarctos thibetanus*; *Ursus arctos*.
- vacuity detriment and emaciation weakness** T4644 *Parasilurus asotus*.
- vacuity detriment and taxation damage** T4206 *Metaplexis japonica*.
- vacuity detriment sterility** T3615 *Kadsura interior*.
- vacuity fever in children** T3681 *Lamium barbatum*.
- vacuity heat and diabetes mellitus** T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2202 *Dioscorea japonica*.
- vacuity heat and hypodynamia** T5545 *Ribes fasciculatum* var. *chinense*.
- vacuity heat and vexation fatigue** T4610 *Panax quinquefolium*.
- vacuity heat cough** T3344 *Hypericum chinense*, T5642 *Saccharum sinensis*.
- vacuity heat during convalescence** T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*.
- vacuity heat with vexation and thirst** T3288 *Humulus japonicus* [Syn. *Humulus scandens*], T5228 *Prunus mume*.
- vacuity of qi and blood** T6798 *Vitis vinifera*.
- vacuity strangury** T2391 *Epimedium brevicornum*.
- vacuity taxation** T1191 *Caragana sinica*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T3774 *Lespedeza tomentosa*, T4207 *Metaplexis japonica*.
- vacuity taxation blood ejection** T2840 *Gallus gallus domesticus*, T3285 *Hovenia dulcis*.

- vacuity taxation cough** T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], T1188 *Caragana chamlagu*, T2188 *Dioscorea alata*, T2454 *Erysimum diffusum*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T5215 *Prunus amygdalus*, T5409 *Rana temporaria chensinensis*; *Rana amurensis*, T5836 *Scutellaria discolor*.
- vacuity taxation detriment** T0989 *Bos taurus domesticus*; *Bubalus bubalis*.
- vacuity taxation hemoptysis** T2983 *Glehnia littoralis*.
- vacuity taxation lung wilting** T0982 *Bos taurus domesticus*.
- vacuity taxation with cough** T5501 *Rhodiola yunnanesis*.
- vacuity taxation with emaciation** T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T3077 *Gymnadenia conopsea*.
- vacuity taxation with emaciation and weakness** T1181 *Capra hircus*; *Ovis aries*, T1182 *Capra hircus*; *Ovis aries*.
- vacuity taxation with fever** T3957 *Lycium chinense*, T5186 *Potentilla reptans* var. *sericophylla*.
- vacuity taxation with kidney depletion** T0990 *Bos taurus domesticus*; *Bubalus bubalis*.
- vacuity taxation with marked emaciation** T0983 *Bos taurus domesticus*, T0986 *Bos taurus domesticus*; *Bubalus bubalis*, T2837 *Gallus gallus domesticus*.
- vacuity taxation with profuse sweating** T4682 *Pedicularis muscicola*.
- vacuity taxation with steaming bone** T0722 *Arundo donax*, T5239 *Prunus salicina*.
- vacuity vexation and egersis** T6918 *Ziziphus jujuba* var. *spinosa*.
- vacuity vexation and insomnia** T0462 *Anemarrhena asphodeloides*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*, T6919 *Ziziphus jujuba* var. *spinosa*.
- vacuity vexation and thirst** T1961 *Cynanchum thesioides*.
- vacuity weakness** T4275 *Monotropa hypopitys*.
- vacuity with dizziness** T0924 *Bergenia purpurascens*.
- vacuity-fire toothache** T4602 *Panax ginseng* [Syn. *Panax schinseng*].
- vaginal discharge** T0045 *Acanthopanax trifoliatum*, T0171 *Adiantum capillus-veneris*, T0249 *Agrimonia pilosa* var. *japonica*, T0255 *Ailanthus altissima*, T0274 *Akebia quinata*, T0278 *Akebia trifoliata*, T0280 *Akebia trifoliata* var. *australis*, T0298 *Alectoria vivens*, T0323 *Allium tuberosum*, T0476 *Angelica anomala*, T0542 *Apis cerana*, T0571 *Aralia decaisneana*, T0678 *Artemisia japonica*, T0736 *Asclepias curassavica*, T0805 *Astragalus sinicus*, T0895 *Benincasa hispida*, T0902 *Berberis diaphana*, T0924 *Bergenia purpurascens*, T0952 *Blechnum orientale*, T0993 *Boschniakia rossica*, T1143 *Calystegia hederacea*, T1145 *Camellia japonica*, T1163 *Campylotropis hirtella*, T1174 *Cannabis sativa*, T1183 *Capra hircus*; *Ovis aries*, T1188 *Caragana chamlagu*, T1191 *Caragana sinica*, T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1299 *Celosia cristata*, T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*, T1425 *Cimicifuga simplex*, T1582 *Cnidium monnieri*, T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*], T1819 *Crotalaria ferruginea*, T1927 *Cycas revoluta*, T1967 *Cynoglossum amabile*, T1969 *Cynoglossum officinale*, T1986 *Cyrtomium fortunei*, T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2188 *Dioscorea alata*, T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*], T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*], T2202 *Dioscorea japonica*, T2212 *Dioscorea tokoro*, T2281 *Dryopteris crassirhizoma*, T2326 *Elaeagnus angustifolia*, T2327 *Elaeagnus angustifolia*, T2334 *Elephantopus scaber*, T2387 *Epilobium hirsutum*, T2391 *Epimedium brevicornum*, T2649 *Evolvulus alsinoides*, T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*], T2658 *Fagopyrum esculentum*, T2659 *Fagopyrum esculentum*, T2718 *Ficus carica*, T2727 *Ficus simplicissima*, T2772 *Fraxinus mandshurica*, T2837 *Gallus gallus domesticus*, T2961 *Ginkgo biloba*, T2962 *Ginkgo biloba*, T2964 *Ginkgo biloba*, T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T3077 *Gymnadenia conopsea*, T3193 *Hemerocallis fulva*, T3195 *Hemerocallis lilio-asphodelus*, T3197 *Hemerocallis minor*, T3241 *Hibiscus mutabilis*, T3242 *Hibiscus rosa-sinensis*, T3243 *Hibiscus rosa-sinensis*, T3244 *Hibiscus syriacus*, T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*], T3570 *Juglans regia*, T3649 *Laccifer lacca*, T3671 *Lagerstroemia indica*, T3681 *Lamium barbatum*, T3770 *Lespedeza cuneata*, T3932 *Ludwigia octovalvis*, T3957 *Lycium chinense*, T3981 *Lycopus lucidus*, T3990 *Lygodium japonicum*, T3999 *Lysimachia clethroides*, T4036 *Magnolia coco*, T4056 *Mahonia bealei*, T4057 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4068 *Mahonia japonica*, T4082 *Mallotus japonicus*, T4091 *Malva sylvestris*, T4172 *Melilotus suaveolens*, T4206 *Metaplexis japonica*, T4209 *Michelia alba*, T4397 *Nelumbo nucifera*, T4482 *Oenanthe javanica*, T4526 *Origanum vulgare*, T4552 *Osmunda japonica*, T4562 *Oxalis acetosella*, T4564 *Oxalis corniculata* [Syn. *Oxalis repens*], T4575 *Pachysandra terminalis*, T4629 *Papaver nudicaule*, T4630 *Papaver nudicaule* ssp. *amurense*, T4787 *Phellinus igniarius*, T5098 *Polygonum aviculare*, T5100 *Polygonum chinense*, T5129 *Polyporus umbellatus*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5295 *Pteris multifida*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5332 *Punica granatum*, T5529 *Rhodomyrtus tomentosa*, T5554 *Rodgersia aesculifolia*, T5567 *Rosa laevigata*, T5586 *Rubia yunnanensis*, T5750 *Saururus chinensis*, T5753 *Saussurea gnaphaloides*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T5939 *Shiraiia bambusicola*, T5954 *Silene fortunei*, T5966 *Siphonostegia chinensis*, T5976 *Smilax china* [Syn. *Smilax japonica*], T5977 *Smilax glabra*, T5980 *Smilax menispermoides*, T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*], T6357 *Tetrapanax papyriferum*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*], T6645 *Urena lobata*, T6653 *Usnea diffracta*, T6654 *Usnea longissima*, T6683 *Vallisneria spiralis*, T6749 *Vicia hirsuta*, T6808 *Waltheria americana*.
- vaginal discharge and pudendal itch** T0318 *Allium sativum*.
- vaginal protrusion (prolapse of uterus)** T5671 *Salvia digitaloides*.
- vaginitis** T2715 *Fibraurea recisa*, T5724 *Sapium sebiferum*.
- varicella** T4552 *Osmunda japonica*.
- variola** T4548 *Oryza sativa* var. *glutinosa*.
- various hemorrhage** T2841 *Gallus gallus domesticus*, T4568 *Oxytropis myriophylla*, T5018 *Pleuropterus ciliinervis*.
- various pain** T0183 *Adlumia cirrhosa* [Syn. *Adlumia fungosa*], T6135 *Stephania succifera*.
- various pains** T1716 *Corydalis gigantea*, T5821 *Scopolia japonica*.

- various pains due to blood stasis and rheumatic impediment** T0495
Angelica sinensis, T4804 *Phlojodicarpus sibiricus*.
- vascular headache** T0644 *Armillaria mellea*.
- vascular migraine** T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- vertex headache** T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T4551 *Osmorhiza aristata* var. *laxa*.
- vesical calculus** T3174 *Heliotropium indicum*.
- vesicle sore** T1197 *Cardiospermum halicacabum*.
- vesication** T2060 *Delonix regia*, T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*], T3921 *Lophatherum gracile*, T5661 *Salvia bowleyana*.
- vesication and agitation** T1662 *Coptis chinensis*, T1663 *Coptis chinensis* var. *breviseipala*, T1664 *Coptis deltoidea*, T1669 *Coptis omeiensis*, T1670 *Coptis teetoides* [Syn. *Coptis teeta*], T3304 *Hydrangea macrophylla*, T4029 *Maesa japonica*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*.
- vesication and agitation in night** T4904 *Pinellia ternata*.
- vesication and agitation with insomnia** T5428 *Rauwolfia yunnanensis*.
- vesication and fullness** T2839 *Gallus gallus domesticus*.
- vesication and oppression due to summerheat-heat** T1448 *Cirsium chinense*.
- vesication and reddish urine** T0632 *Aristolochia manshuriensis*.
- vesication and thirst** T0438 *Anacardium occidentale*, T0834 *Averrhoa carambola*, T1152 *Camellia sinensis* [Syn. *Thea sinensis*], T1165 *Canarium album*, T2246 *Dolichos lablab*, T2431 *Eriobotrya japonica*, T3286 *Hovenia dulcis*, T3876 *Litchi chinensis*, T3957 *Lycium chinense*, T4348 *Myrica rubra*, T4545 *Oryza sativa*, T4618 *Panicum miliaceum*, T5826 *Scrophularia buergeriana*, T5828 *Scrophularia ningpoensis*, T6416 *Thamnia vermicularis*.
- vesication due to febrile disease** T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*].
- viral conjunctivitis** T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*.
- viral infection** T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T3085 *Gynostemma pentaphyllum*.
- viral hepatitis** T0379 *Alternanthera philoxeroides*.
- visceral agitation** T6544 *Triticum aestivum* [Syn. *Triticum vulgare*], T6562 *Tulipa gesneriana*, T6675 *Valeriana amurensis*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6916 *Ziziphus jujuba*, T6917 *Ziziphus jujuba* var. *inermis*.
- vomiting** T0012 *Abrus precatorius*, T0156 *Actinidia arguta*, T0357 *Alpinia japonica*, T0358 *Alpinia katsumadai*, T0359 *Alpinia officinarum*, T0417 *Amomum longiligulare*, T0418 *Amomum muricarpum*, T0419 *Amomum villosum*, T0420 *Amomum xanthioides*, T1168 *Canavalia ensiformis*, T1169 *Canavalia gladiata*, T1182 *Capra hircus*; *Ovis aries*, T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*, T1469 *Citrus aurantium* var. *amara*, T1501 *Citrus medica* var. *sarcodactylis*, T1506 *Citrus reticulata*, T2643 *Evodia meliifolia*, T2744 *Foeniculum vulgare*, T2867 *Garcinia multiflora*, T3286 *Hovenia dulcis*, T3372 *Hypodematium sinense*, T4048 *Magnolia rostrata*, T4099 *Mangifera indica*, T4103 *Mangifera persiciformis*, T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*], T4600 *Panax ginseng* [Syn. *Panax schinseng*], T4953 *Piper longum*, T5139 *Poncirus trifoliata*, T5389 *Rabdosia coetsa*, T5419 *Raphanus sativus*, T5754 *Saussurea graminea*, T6869 *Zanthoxylum bungeanum*, T6892 *Zanthoxylum schinifolium*, T6909 *Zingiber officinale*, T6910 *Zingiber officinale*.
- vomiting and diarrhea** T0190 *Adonis sutchuenensis*, T0212 *Agastache rugosus*, T0360 *Alpinia oxyphylla*, T0363 *Alpinia speciosa*, T0374 *Alstonia scholaris*, T0819 *Atractylodes chinensis*, T0821 *Atractylodes japonica*, T0823 *Atractylodes lancea*, T1436 *Cinnamomum camphora*, T1441 *Cinnamomum japonicum*, T1592 *Cocos nucifera*, T2343 *Elsholtzia splendens*, T3234 *Heteropogon contortus*, T3431 *Inula helenium*, T3437 *Inula racemosa*, T4034 *Magnolia biloba*, T4039 *Magnolia grandiflora*, T4045 *Magnolia officinalis*, T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*], T4348 *Myrica rubra*, T4470 *Ocimum basilicum*, T4714 *Perilla frutescens*, T6499 *Tribulus terrestris*, T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*], T6788 *Vitex negundo*, T6888 *Zanthoxylum planispinum*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.
- vomiting and diarrhea with cramp** T0978 *Bombyx mori*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T1343 *Chaenomeles sinensis*, T4818 *Phoebe nanmu*.
- vomiting and dysentery** T4979 *Pistacia chinensis*.
- vomiting and eructation** T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3434 *Inula linariaefolia*.
- vomiting and hiccough** T1202 *Carex kobomugi*, T1483 *Citrus grandis* var. *tomentosa*.
- vomiting diarrhea with abdominal pain** T1941 *Cymbopogon distans*, T2205 *Dioscorea panthaica*, T4086 *Malus asiatica*, T4526 *Origanum vulgare*, T5059 *Pogostemon cablin* [Syn. *Mentha cablin*], T5103 *Polygonum hydropiper*, T5836 *Scutellaria discolor*, T6827 *Wisteria sinensis*.
- vomiting due to liver stomach qi stagnation** T1498 *Citrus medica*, T1520 *Citrus wilsonii*.
- vomiting in pregnancy** T1490 *Citrus limon*, T1494 *Citrus limonia*, T2263 *Dregea volubilis*, T6277 *Tadehagi triquetrum*, T6285 *Tamarindus indica*.
- vomiting nausea** T0825 *Atropa belladonna*, T1353 *Changium smyrnioides*, T2838 *Gallus gallus domesticus*, T4904 *Pinellia ternata*, T5642 *Saccharum sinensis*, T6488 *Trachyspermum ammi*.
- vomiting of milk in infants with stomach cold** T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*].
- vomiting of sour matter** T1937 *Cydonia oblonga*, T2431 *Eriobotrya japonica*, T4983 *Pisum sativum*, T6754 *Vigna unguiculata*.
- vomiting of water due to congealing cold qi stagnation** T5715 *Santalum album*.
- vomiting with stomach cold** T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*], T1008 *Brassica juncea*, T3409 *Illicium verum*, T4957 *Piper nigrum*.
- wandering wind of head and face** T0167 *Adenanthera pavonina*.
- warm disease** T2756 *Forsythia suspensa*, T3868 *Liquidambar orientalis*.
- warm disease ardent fever** T5120 *Polygonum tinctorium*.

- warm disease fever** T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T1538 *Clausena lansium*, T1727 *Corydalis mucronifera*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3913 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T5121 *Polygonum tinctorium*.
- warm disease macular eruption** T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*].
- warm evil in construction** T3476 *Isatis indigotica*.
- warm heat disease** T0462 *Anemarrhena asphodeloides*, T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*].
- warm heat disease with fever** T0942 *Biebersteinia heterostemon*, T1950 *Cynanchum ascyrifolium*, T1951 *Cynanchum atratum*, T1962 *Cynanchum versicolor*, T2952 *Gerbera piloselloides*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T6582 *Tylophora ovata*.
- warm heat macular eruption** T2281 *Dryopteris crassirhizoma*.
- warm malaria** T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*], T4670 *Patrinia heterophylla*, T4673 *Patrinia scabra*.
- warm toxin macular eruption** T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T3475 *Isatis indigotica*, T4584 *Paeonia lactiflora* wild, T4586 *Paeonia obovata*, T4590 *Paeonia veitchii*.
- wart** T0971 *Bolbostemma paniculatum*, T1954 *Cynanchum chinense*, T2597 *Euphorbia lathyris*, T3659 *Lactuca indica*, T4102 *Mangifera indica*, T4338 *Mylabris phalerata*; *Mylabris cichorii*, T5026 *Plumbagella micrantha*.
- water diarrhea** T0328 *Alnus japonica*, T1937 *Cydonia oblonga*, T1943 *Cymbopogon goeringii*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T6746 *Vicia faba*.
- water gu** T5542 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*].
- water-damp fullness** T1980 *Cyprinus carpio*.
- water-rheum collecting internally** T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*].
- water-rheum collecting lung** T4287 *Morus alba*.
- weakness during convalescence** T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*], T0541 *Apis cerana*, T1751 *Corylus heterophylla*, T2837 *Gallus gallus domesticus*, T4607 *Panax pseudo-ginseng* var. *japonicus*, T5260 *Pseudostellaria heterophylla*, T6087 *Spiranthes sinensis*, T6489 *Tragopogon porrifolius*.
- weakness in limbs** T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*].
- weakness in lumbus and knees** T3389 *Ilex cornuta*, T5755 *Saussurea involucreta*.
- weakness in sinews and bones** T1455 *Cistanche deserticola*, T1456 *Cistanche salsa*, T2530 *Eucommia ulmoides*, T4536 *Orobanchae coerulea*, T5638 *Sabia swinhoei*, T6670 *Vaccinium bracteatum*.
- weakness of legs** T5972 *Skimmia reevesiana*.
- weakness of righth qi** T3742 *Lentinus edodes*.
- weakness in legs and knees** T4828 *Photinia serrulata*.
- welling abscess** T0012 *Abrus precatorius*, T0226 *Agave sisalana*, T0421 *Amorpha fruticosa*, T0495 *Angelica sinensis*, T2341 *Elsholtzia ciliata*, T2756 *Forsythia suspensa*, T3001 *Glycine max*, T3190 *Helminthostachys zeylanica*, T3908 *Lonicera bournei*, T3909 *Lonicera confusa*, T3910 *Lonicera fulvotomentosa*, T3911 *Lonicera hypoglauca*, T3912 *Lonicera japonica*, T3914 *Lonicera macranthoides*, T3918 *Lonicera similis*, T4253 *Mirabilis jalapa*, T4804 *Phlojodicarpus sibiricus*, T5118 *Polygonum suffutum*, T5323 *Pulsatilla campanella*, T5324 *Pulsatilla cernua*, T5325 *Pulsatilla chinensis*, T5326 *Pulsatilla dahurica*, T5531 *Rhus chinensis* [Syn. *Rhus semialata*], T6018 *Solanum verbascifolium*, T6279 *Tagetes erecta*.
- welling abscess and boil** T0584 *Arctium lappa*, T1031 *Broussonetia kazinoki*, T1373 *Chloranthus serratus*, T1450 *Cirsium lineare*, T1731 *Corydalis pallida*, T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*], T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*], T5250 *Psammisilene tunicoides*, T5339 *Pycnoporus sanguineus*, T5892 *Senecio nemorensis*, T6020 *Solanum xanthocarpum*, T6095 *Stachytarpheta jamaicensis*, T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*], T6808 *Waltheria americana*.
- welling abscess and clove sore** T1869 *Cryptotaenia japonica*, T3674 *Laggera alata*.
- welling abscess and eczema** T5925 *Sesamum indicum* [Syn. *Sesamum orientale*].
- welling abscess and flat abscess** T0463 *Anemone altaica*, T0648 *Arnebia euchroma*, T0649 *Arnebia guttata*, T1049 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1051 *Bufo bufo gargarizans*; *Bufo melanostictus*, T1286 *Celastrus flagellaris*, T1562 *Clerodendron trichotomum*, T1565 *Clerodendrum bungei*, T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1858 *Croton tiglium*, T1871 *Cucubalus baccifer*, T2139 *Dianella ensifolia*, T2580 *Euphorbia antiquorum*, T2584 *Euphorbia ebracteolata*, T2587 *Euphorbia fischeriana*, T2756 *Forsythia suspensa*, T3128 *Hedysarum multijugum*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3411 *Impatiens balsamina*, T3881 *Lithospermum erythrorhizon*, T4042 *Magnolia liliflora*, T4428 *Nicotiana tabacum*, T5220 *Prunus davidiana*, T5232 *Prunus persica*, T6497 *Tribulus terrestris*, T6560 *Tulipa edulis*.
- welling abscess and flat abscess with clove sore** T0138 *Aconitum umbrosum*, T0987 *Bos taurus domesticus*; *Bubalus bubalis*, T2132 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T3088 *Gynura segetum* [Syn. *Gynura japonica*], T4000 *Lysimachia congestiflora*, T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*], T6463 *Tinospora capillipes*, T6467 *Tinospora sagittata*, T6767 *Viola yedoensis*.
- welling abscess and flat abscess with clove sores** T0922 *Berberis polyphylla* var. *leioclada*, T1052 *Bufo bufo gargarizans*; *Bufo melanostictus*.
- welling abscess and flat abscess with swelling sore** T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T5642 *Saccharum sinensis*, T6764 *Vinegar*.
- welling abscess and flat abscess with swollen boil** T0382 *Althaea rosea*.
- welling abscess and open sore** T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*].
- welling abscess and sores** T0292 *Albizia julibrissin*, T1338 *Cestrum nocturnum*, T1546 *Clematis tangutica*, T2062 *Delphinium bonvalotii*,

- T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T2757 *Forsythia viridissima*, T3675 *Lagopsis supina*.
- welling abscess and sores with sore and boil** T0156 *Actinidia arguta*.
- welling abscess and toxin of clove** T4264 *Momordica cochinchinensis*.
- welling abscess boil and clove sores** T3645 *Kummerowia striata*.
- welling abscess of ear** T2517 *Eucalyptus robusta*.
- welling abscess toxin** T5579 *Rubia cordifolia*.
- welling abscess with pus swelling** T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*], T3145 *Helianthus annuus*.
- welling abscess and sores** T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*].
- white dysentery** T4305 *Mosla dianthera*.
- white mouth sore in children** T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T5894 *Senecio oryzetorum*.
- white patch wind** T0583 *Archangelica decurrens*, T1359 *Chenopodium album*, T1911 *Cuscuta australis*, T1912 *Cuscuta chinensis*, T1913 *Cuscuta japonica*, T2273 *Drynaria fortunei*, T2598 *Euphorbia lathyris*, T3390 *Ilex cornuta*, T3567 *Juglans regia*, T4432 *Nigella glandulifera*, T5252 *Pseudodrynaria coronans*, T5270 *Psoralea corylifolia*, T6713 *Vernonia anthelmintica*.
- white turbidity** T0048 *Acanthus ilicifolius*, T0255 *Ailanthus altissima*, T0360 *Alpinia oxyphylla*, T0895 *Benincasa hispida*, T0977 *Bombyx mori*, T1001 *Brachystemma calycinum*, T1275 *Cayratia japonica*, T1756 *Costus speciosus*, T2194 *Dioscorea colletii*, T2197 *Dioscorea futschauensis*, T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*], T2210 *Dioscorea spongiosa*, T2212 *Dioscorea tokoro*, T2391 *Epimedium brevicornum*, T2658 *Fagopyrum esculentum*, T3615 *Kadsura interior*, T3770 *Lespedeza cuneata*, T3932 *Ludwigia octovalvis*, T3990 *Lygodium japonicum*, T4252 *Mirabilis jalapa*, T5554 *Rodgersia aesculifolia*, T5651 *Salix babylonica*, T5685 *Salvia plebeia*, T6025 *Sonchus arvensis*, T6095 *Stachytarpheta jamaicensis*, T6474 *Toona ciliata*, T6475 *Toona sinensis*, T6754 *Vigna unguiculata*.
- white turbidity vaginal discharge** T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*].
- whole body swelling** T2995 *Gloriosa superba*.
- wilting-impediment of limbs** T0569 *Aralia cordata*, T0574 *Aralia fargesii*.
- wilting-weakness in limbs** T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T4260 *Moghania philippinensis*.
- wind damage and common cold** T2056 *Debregeasia longifolia*, T3520 *Isodon rosthornii*, T6789 *Vitex negundo*.
- wind damage common cold** T1137 *Caltha palustris*.
- wind due to blood heat** T1161 *Campsis grandiflora*.
- wind eye with ulceration of eyelid rim** T6251 *Symplocos caudata*.
- wind impediment** T1171 *Canis familiaris*, T1205 *Carica papaya*, T3001 *Glycine max*, T4912 *Pinus koraiensis*, T5151 *Populus davidiana*, T5234 *Prunus persica*, T5368 *Python molurus bivittatus*, T5579 *Rubia cordifolia*, T6439 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*].
- wind impediment and hypertonicity of sinews** T3000 *Glycine max*.
- wind impediment and lumbago** T6197 *Styrax benzoin*, T6204 *Styrax tonkinensis*.
- wind lai** T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*].
- wind lai lichen** T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- wind papule itching** T0540 *Apis cerana*, T0978 *Bombyx mori*, T2257 *Dracocephalum moldavicum*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2434 *Eriocaulon buergerianum*, T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*], T3222 *Heracleum scabridum*, T4231 *Milingtonia hortensis*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T5107 *Polygonum multiflorum*, T5108 *Polygonum multiflorum*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*], T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*, T6325 *Tectona grandis*.
- wind papule itching due to blood heat** T1160 *Campsis grandiflora*.
- wind papule itching of skin** T6499 *Tribulus terrestris*.
- wind papules** T0297 *Alchornea trewioides*, T0423 *Ampelopsis brevipedunculata*, T0586 *Arctium lappa*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0932 *Betula luminifera*, T1032 *Broussonetia papyrifera*, T1084 *Buthus martensi*, T1161 *Campsis grandiflora*, T1311 *Centella asiatica*, T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2194 *Dioscorea colletii*, T2325 *Eichhornia crassipes*, T2505 *Eucalyptus citriodora*, T2517 *Eucalyptus robusta*, T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*], T3417 *Imperata cylindrica* var. *major*, T3737 *Lemnaphyllum microphyllum* var. *obovatum*, T4154 *Melaleuca leucadendra*, T4307 *Mosla scabra* [Syn. *Mosla punctata*], T5104 *Polygonum hydropiper*, T5269 *Psilotum nudum*, T5401 *Rabdosia yunnanensis*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5773 *Saxifraga stolonifera*, T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*], T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T6367 *Teucrium quadrifarium*.
- wind papules [= rubella]** T4828 *Photinia serrulata*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*].
- wind sore** T2981 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- wind stroke** T0142 *Acorus calamus*, T1876 *Cucumis melo*, T2274 *Dryobalanops aromatica*, T2975 *Gleditsia delavayi*, T6183 *Strychnos nitida*.
- wind stroke (apoplexy)** T2976 *Gleditsia fera*.
- wind stroke clenched jaw** T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*].
- wind stroke paralysis** T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*].
- wind stroke with congesting phlegm** T0088 *Aconitum coreanum*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T4903 *Pinellia pedatisecta*, T6588 *Typhonium*

- giganteum*, T6697 *Veratrum grandiflorum*, T6698 *Veratrum nigrum*.
- wind stroke with deviated eyes and mouth** T1084 *Buthus martensi*.
- wind stroke with hemiplegia** T0108 *Aconitum kusnezoffii*, T0164 *Actinidia polygama*, T0983 *Bos taurus domesticus*, T2753 *Formica fusca*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4696 *Penaeus orientalis*, T4796 *Pheretima aspergillum*; *Alloobophora caliginosa trapezoides*.
- wind stroke with loss of speech** T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum mnioides*].
- wind stroke with orifice block** T0987 *Bos taurus domesticus*; *Bubalus bubalis*.
- wind stroke with phlegm reversal** T3868 *Liquidambar orientalis*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*.
- wind swelling** T5651 *Salix babylonica*.
- wind swelling and pruritus** T5650 *Salix babylonica*.
- wind toxin and beriberi** T3000 *Glycine max*, T4937 *Piper betle*.
- wind toxin and swollen welling abscess** T5301 *Pterocarpus indicus*.
- wind toxin swollen face** T0584 *Arctium lappa*.
- wind warmth** T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*].
- wind water edema** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T5963 *Sinodielsia yunnanensis*.
- wind yang harassing upper body** T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*].
- wind-cold common cold** T0310 *Allium ascalonicum*, T0314 *Allium fistulosum*, T0476 *Angelica anomala*, T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], T0676 *Artemisia dracunculus*, T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*], T0724 *Asarum caulescens*, T0726 *Asarum forbesii*, T0727 *Asarum fukiense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0729 *Asarum maximum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0752 *Asparagus officinalis*, T0926 *Berneuxia thibetica*, T0957 *Blumea balsamifera*, T1312 *Centipeda minima*, T1371 *Chloranthus japonicus*, T1435 *Cinnamomum camphora*, T1440 *Cinnamomum glanduliferum*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1641 *Conioselinum vaginatum*, T1941 *Cymbopogon distans*, T2505 *Eucalyptus citriodora*, T2956 *Geum japonicum*, T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*], T3124 *Hedyotis capitellata*, T3221 *Heracleum rapula*, T3222 *Heracleum scabridum*, T3796 *Libanotis buchtormensis*, T3847 *Lindera angustifolia*, T4000 *Lysimachia congestiflora*, T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*], T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*], T4041 *Magnolia liliflora*, T4052 *Magnolia sprengeri*, T4305 *Mosla dianthera*, T4551 *Osmorhiza aristata* var. *laxa*, T4763 *Peucedanum morisonii*, T5021 *Pleurospermum rivulorum*, T5113 *Polygonum persicaria*, T5389 *Rabdosia coetsa*, T5639 *Sabina chinensis*, T5987 *Sobina chinensis*, T6457 *Tilia japonica*, T6458 *Tilia miqueliana*, T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*], T6883 *Zanthoxylum myriacanthum*, T6910 *Zingiber officinale*.
- wind-cold cough** T1046 *Buddleja davidii*, T3426 *Inula britannica*, T3427 *Inula britannica*, T3428 *Inula britannica* var. *chinensis*, T3433 *Inula japonica*, T3434 *Inula linariaefolia*, T3810 *Ligularia nelumbifolia*, T3871 *Liriodendron tulipifera*, T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*], T4937 *Piper betle*, T4948 *Piper hancei*, T4965 *Piper sarmentosum*, T6111 *Stemona japonica*, T6113 *Stemona sessilifolia*, T6115 *Stemona tuberosa*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*.
- wind-cold cough and asthma with abundant phlegm** T1483 *Citrus grandis* var. *tomentosa*.
- wind-cold exterior repletion syndrome** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- wind-cold exterior syndrome** T0491 *Angelica polymorpha*, T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], T4721 *Perilla frutescens* var. *arguta*.
- wind-cold headache** T4962 *Piper puberulum*.
- wind-cold impediment pain** T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*], T1939 *Cymbopogon citratus*, T3869 *Liquor*.
- wind-cold sinew and bone numbness** T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*].
- wind-cold-damp impediment** T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*], T0038 *Acanthopanax gracilistylus*, T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], T0044 *Acanthopanax sessiliflorus*, T0077 *Aconitum balfourii*, T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*], T0083 *Aconitum carmichaeli*, T0084 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv, T0086 *Aconitum chasmanthum*, T0090 *Aconitum delavayi*, T0098 *Aconitum geniculatum*, T0105 *Aconitum karakolicum*, T0106 *Aconitum kirinense*, T0108 *Aconitum kusnezoffii*, T0123 *Aconitum polyschistum*, T0135 *Aconitum sungpanense*, T0138 *Aconitum umbrosum*, T0164 *Actinidia polygama*, T0470 *Anemone raddeana*, T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*], T0696 *Artemisia sieversiana*, T0726 *Asarum forbesii*, T1641 *Conioselinum vaginatum*, T1923 *Cyathula capitata*, T2039 *Datura innoxia*, T2043 *Datura metel*, T2047 *Datura stramonium*, T2091 *Delphinium yunnanense*, T2203 *Dioscorea nipponica*, T2204 *Dioscorea nipponica* ssp. *rosthornii*, T2750 *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*], T3213 *Heracleum hemsleyanum*, T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*], T3221 *Heracleum rapula*, T3222 *Heracleum scabridum*, T3228 *Heracleum yungningense*, T3401 *Illicium henryi*, T3822 *Ligusticum jeholense*, T3824 *Ligusticum sinense*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T4283 *Morinda officinalis*, T4439 *Nothapodytes pittosporoides*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4516 *Oplopanax elatus*, T4725 *Periploca calophylla*, T4948 *Piper hancei*, T4950 *Piper kadsura* [Syn. *Piper fuokadsura*], T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*], T5021 *Pleurospermum rivulorum*, T5113 *Polygonum persicaria*, T5517

Rhododendron molle, T5822 *Scopolia sinensis*, T5924 *Sesamum indicum*, T6106 *Stemmatocrypton khasianum*, T6858 *Zanthoxylum acanthopodium*, T6862 *Zanthoxylum ailanthoides*, T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium*, T6877 *Zanthoxylum dissitum*, T6893 *Zanthoxylum simulans*, T6894 *Zanthoxylum simulans*.

wind-cold-damp impediment (especially in lower part of body) T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], T3214 *Heracleum lanatum*.

wind-damp T4838 *Phyllanthus flexuosus*, T6155 *Strophanthus divaricatus*, T6326 *Telekia speciosa*.

wind-damp (rheumatis)⁵⁵⁰⁹¹ T5248 *Psacalium peltatum*.

wind-damp bone pain T0010 *Abrus fruticosus* [Syn. *Abrus cantoniensis*], T0012 *Abrus precatorius*, T0079 *Aconitum brachypodium*, T0117 *Aconitum nagarum* var. *lasiantrum*, T0500 *Anguilla japonica*, T0847 *Baccharis indica* [Syn. *Pluchea indica*], T0888 *Beesia calthaefolia*, T0922 *Berchemia polyphylla* var. *leioclada*, T1120 *Callicarpa macrophylla*, T1191 *Caragana sinica*, T1537 *Clausena lansium*, T1556 *Clerodendron fragrans*, T1557 *Clerodendron indicum*, T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*], T1815 *Crotalaria assamica*, T1871 *Cucubalus baccifer*, T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], T2233 *Diploclosia glaucescens*, T2505 *Eucalyptus citriodora*, T2641 *Evodia lepta* [Syn. *Ilex lepta*], T2721 *Ficus microcarpa*, T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*], T3414 *Impatiens sicutifer*, T3736 *Lemmaphyllum microphyllum*, T3849 *Lindera chunii*, T4154 *Melaleuca leucadendra*, T4268 *Monachosorum henryi*, T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*], T4937 *Piper betle*, T5401 *Rabdosia yuennanensis*, T5587 *Rubus alceaefolius*, T5626 *Ruta graveolens*, T5650 *Salix babylonica*, T5672 *Salvia flava*, T5795 *Schisandra micrantha*, T5847 *Securidaca inappendiculata*, T6095 *Stachytarpheta jamaicensis*, T6286 *Tamarix chinensis*, T6290 *Tamarix ramosissima*, T6866 *Zanthoxylum avicennae*, T6884 *Zanthoxylum nitidum*.

wind-damp bone pain (root cortex branchlet-leaf) T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*].

wind-damp edema T1097 *Cacalia ainsliaeflora*.

wind-damp impediment T1084 *Buthus martensi*, T1562 *Clerodendron trichotomum*, T2479 *Erythrina variegata* var. *orientalis*, T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*], T5648 *Salacia prinoides* [Syn. *Salacia chinensis*], T5753 *Saussurea gnaphaloides*, T5757 *Saussurea laniceps*, T5759 *Saussurea medusa*, T5975 *Smilax bockii*, T5978 *Smilax glauco-china*, T5981 *Smilax riparia*.

wind-damp impediment pain T0045 *Acanthopanax trifoliatum*, T0060 *Achillea alpina* [Syn. *Achillea sibirica*], T0065 *Achillea millefolium*, T0088 *Aconitum coreanum*, T0094 *Aconitum finetianum*, T0125 *Aconitum pseudostapfianum*, T0130 *Aconitum sinomontanum*, T0144 *Acorus gramineus*, T0146 *Acorus tatarinowii*, T0156 *Actinidia arguta*, T0161 *Actinidia eriantha*, T0170 *Adhatoda vasica*, T0229 *Ageratum conyzoides*, T0266 *Ajuga macrosperma*, T0273 *Akebia quinata*, T0274 *Akebia quinata*, T0277 *Akebia trifoliata*, T0278 *Akebia trifoliata*, T0279 *Akebia trifoliata* var. *australis*, T0280 *Akebia trifoliata* var. *australis*, T0281 *Alangium chinense*, T0285 *Alangium plataniifolium*,

T0364 *Alsophila spinulosa*, T0383 *Alyxia sinensis*, T0463 *Anemone altaica*, T0491 *Angelica polymorpha*, T0503 *Anisomeles indica* [Syn. *Epimeredi indica*], T0567 *Aralia armata*, T0571 *Aralia decaisneae*, T0584 *Arctium lappa*, T0595 *Ardisia crispa*, T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*], T0601 *Ardisia pusilla*, T0602 *Ardisia quinquegona*, T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*], T0628 *Aristolochia fangchi*, T0634 *Aristolochia mollissima*, T0661 *Artemisia anomala*, T0721 *Arundina chinensis*, T0724 *Asarum caulescens*, T0727 *Asarum fukiense*, T0728 *Asarum heterotropoides* var. *mandshuricum*, T0731 *Asarum sieboldii*, T0732 *Asarum sieboldii* var. *seoulensis*, T0759 *Aspidistra elatior*, T0776 *Asplenium prolongatum*, T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0877 *Bauhinia championii*, T0886 *Beaumontia grandiflora*, T0932 *Betula luminifera*, T0938 *Bidens bipinnata*, T0957 *Blumea balsamifera*, T0963 *Boehmeria siamensis*, T0978 *Bombyx mori*, T0994 *Boswellia carterii*, T1031 *Broussonetia kazinoki*, T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*], T1092 *Buxus microphylla* var. *sinica*, T1282 *Cedrus deodara*, T1285 *Celastrus angulatus*, T1286 *Celastrus flagellaris*, T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1291 *Celastrus paniculatus*, T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*], T1343 *Chaenomeles sinensis*, T1361 *Chenopodium ambrosioides*, T1371 *Chloranthus japonicus*, T1372 *Chloranthus serratus*, T1411 *Cibotium barometz* [Syn. *Polypodium barometz*], T1435 *Cinnamomum camphora*, T1436 *Cinnamomum camphora*, T1437 *Cinnamomum camphora*, T1440 *Cinnamomum glanduliferum*, T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*], T1545 *Clematis chinensis*, T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*], T1563 *Clerodendron trichotomum*, T1565 *Clerodendron bungei*, T1582 *Cnidium monnieri*, T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*], T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*], T1650 *Convolvulus arvensis*, T1721 *Corydalis linearoides*, T1831 *Crotalaria sessiliflora*, T1841 *Croton caudatus* var. *tomentosus*, T1884 *Cudrania cochinchinensis*, T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*], T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*], T1922 *Cyanotis vaga*, T1934 *Cyclea tonkinensis*, T1941 *Cymbopogon distans*, T1958 *Cynanchum otophyllum*, T1959 *Cynanchum paniculatum*, T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*], T2020 *Damnacanthus indicus*, T2030 *Daphne retusa*, T2031 *Daphne tangutica*, T2036 *Datura innoxia*, T2037 *Datura innoxia*, T2041 *Datura metel*, T2044 *Datura metel*, T2046 *Datura stramonium*, T2053 *Davallia mariessii*, T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*], T2077 *Delphinium grandiflorum*, T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*], T2131 *Desmodium pulchellum* [Syn. *Phyllodium pulchellum*], T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*], T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*], T2189 *Dioscorea althaeoides*, T2194 *Dioscorea colletii*, T2197 *Dioscorea futschauensis*, T2198 *Dioscorea gracillima*, T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var.

hypoglauca], T2210 *Dioscorea spongiosa*, T2211 *Dioscorea tenuipes*, T2212 *Dioscorea tokoro*, T2234 *Dipsacus asperoides*, T2235 *Dipsacus japonicus*, T2262 *Dregea sinensis*, T2267 *Drosera peltata* var. *lunata*, T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium suchuenense*, T2406 *Epimedium wushanense*, T2422 *Erigeron breviscapus*, T2426 *Erigeron sumatrensis*, T2438 *Erodium stephanianum*, T2449 *Erycibe obtusifolia*, T2450 *Erycibe schmidtii*, T2459 *Erythrina arborescens*, T2478 *Erythrina variegata* [Syn. *Erythrina indica*], T2517 *Eucalyptus robusta*, T2540 *Euonymus fortunei*, T2542 *Euonymus japonicus*, T2545 *Euonymus phellomana*, T2631 *Eurya japonica*, T2720 *Ficus hispida*, T2723 *Ficus pumila*, T2727 *Ficus simplicissima*, T2731 *Firmiana simplex*, T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*], T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*], T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*], T2738 *Flemingia strobilifera*, T2752 *Fordia cauliflora*, T2753 *Formica fusca*, T2805 *Fugu ocellatus*, T2890 *Gastrodia elata*, T2895 *Gaultheria yunnanensis*, T2897 *Gelsemium elegans*, T2909 *Gentiana crassicaulis*, T2910 *Gentiana dahurica*, T2913 *Gentiana kaufmanniana*, T2919 *Gentiana macrophylla*, T2932 *Gentiana siphonantha*, T2934 *Gentiana straminea*, T2936 *Gentiana tianschanica*, T2937 *Gentiana tibetica*, T2943 *Geranium nepalense*, T2944 *Geranium pratense*, T2946 *Geranium robertianum*, T2947 *Geranium sibiricum*, T2949 *Geranium wilfordii*, T2994 *Gloiopeltis furcata*, T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*], T3080 *Gymnema sylvestre*, T3113 *Hedera nepalensis* var. *sinensis*, T3115 *Hedera rhombea*, T3201 *Hemiphragma heterophyllum*, T3234 *Heteropogon contortus*, T3270 *Holboellia fargesii*, T3294 *Huperzia selago* [Syn. *Lycopodium selago*], T3316 *Hylomecon japonica*, T3329 *Hyoscyamus niger*, T3363 *Hypericum sampsonii*, T3381 *Hyptis suaveolens*, T3390 *Ilex cornuta*, T3395 *Ilex pedunculosa*, T3398 *Ilex rotunda*, T3410 *Impatiens balsamina*, T3413 *Impatiens nolintangere*, T3417 *Imperata cylindrica* var. *major*, T3420 *Incarvillea sinensis*, T3520 *Isodon rosthornii*, T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*], T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], T3615 *Kadsura interior*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3628 *Kerria japonica*, T3643 *Kopsia officinalis*, T3726 *Laurus nobilis*, T3746 *Leontice robustum*, T3796 *Libanotis buchtormensis*, T3809 *Ligularia lapathifolia*, T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], T3847 *Lindera angustifolia*, T3851 *Lindera glauca*, T3852 *Lindera megaphylla*, T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], T3871 *Liriodendron tulipifera*, T3897 *Litsea verticillata*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3965 *Lycopodium annotinum*, T3969 *Lycopodium casuarinoides*, T3971 *Lycopodium complanatum*, T3976 *Lycopodium obscurum*, T3990 *Lygodium japonicum*, T3995 *Lysidice rhodostegia*, T3996 *Lysimachia candida*, T3997 *Lysimachia capillipes*, T4005 *Lysionotus pauciflorus*, T4106 *Manis pentadactyla*, T4126 *Matteuccia orientalis*, T4147 *Medicago falcata*, T4183 *Menispermum dauricum*, T4210 *Michelia champaca*, T4219 *Microlepis marginata*, T4221 *Micromelum falcatum*, T4223 *Micromelum integerrimum*, T4234 *Millettia dielsiana*, T4238 *Millettia nitida*, T4239 *Millettia nitida* var. *hirsutissima*, T4260 *Moghania philippinensis*, T4267 *Monachosorum flagellare*, T4279 *Morina chinensis*, T4311 *Mucuna sempervirens*, T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*], T4325 *Murraya paniculata* var. *exotica*, T4347 *Myrica nagi* [Syn. *Podocarpus nagi*], T4361 *Myrsine africana*, T4368 *Nandina domestica*, T4444 *Nothopanax davidii*, T4470 *Ocimum basilicum*, T4542 *Orthosiphon wulfenioides* [Syn. *Coleus wulfenioides*], T4549 *Osbeckia chinensis*, T4605 *Panax japonicus* var. *major*, T4631 *Papaver nudicaule* var. *chinense*, T4687 *Peganum harmala*, T4704 *Peperomia duclouxii*, T4710 *Pericampylus glaucus*, T4726 *Periploca forrestii*, T4729 *Periploca sepium*, T4801 *Phlegmarius phlegmaria* [Syn. *Lycopodium phlegmaria*], T4814 *Phlomis umbrosa*, T4828 *Photinia serrulata*, T4873 *Picea koraiensis*, T4906 *Pinus armandii*, T4916 *Pinus massoniana*, T4938 *Piper boehmeriaefolium*, T4956 *Piper mullesua*, T4962 *Piper puberulum*, T4965 *Piper sarmentosum*, T4966 *Piper sarmentosum*, T5018 *Pleuropteris ciliinervis*, T5028 *Plumbago indica*, T5029 *Plumbago zeylanica*, T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*], T5071 *Polygala arillata*, T5075 *Polygala fallax* [Syn. *Polygala aureocauda*], T5104 *Polygonum hydropiper*, T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*], T5106 *Polygonum lapathifolium*, T5108 *Polygonum multiflorum*, T5114 *Polygonum polystachyum*, T5124 *Polypodium niponicum*, T5144 *Populus adenopoda*, T5156 *Populus nigra* var. *thevestina*, T5179 *Potentilla anserina*, T5189 *Pothos chinensis*, T5230 *Prunus persica*, T5267 *Psidium guajava*, T5269 *Psilotum nudum*, T5284 *Pteridium aquilinum* var. *latiusculum*, T5308 *Pterocarya stenoptera*, T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*], T5344 *Pyrola atropurpurea*, T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*], T5346 *Pyrola calliantha* var. *tibetana*, T5347 *Pyrola decorata*, T5349 *Pyrola incarnata*, T5350 *Pyrola japonica*, T5351 *Pyrola rotundifolia*, T5391 *Rabdosia eriocalyx*, T5515 *Rhododendron micranthum*, T5516 *Rhododendron molle*, T5523 *Rhododendron simsii*, T5547 *Ricinus communis*, T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*], T5591 *Rubus cochinchinensis*, T5637 *Sabia schumanniana*, T5640 *Sabina vulgaris*, T5651 *Salix babylonica*, T5704 *Sambucus nigra*, T5707 *Sambucus williamsii*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*], T5741 *Sargentodoxa cuneata*, T5746 *Sassafras tzumu*, T5755 *Saussurea involucrata*, T5756 *Saussurea japonica*, T5781 *Schefflera arboricola*, T5785 *Schefflera venulosa*, T5793 *Schisandra henryi*, T5817 *Scolopendra subspinipes mutilans*, T5861 *Selaginella doederleinii*, T5934 *Seseli meirei*, T5937 *Seseli yunnanense*, T5939 *Shiraiia bambusicola*, T5950 *Siegesbeckia orientalis*, T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*], T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], T5963 *Sinodielsia yunnanensis*, T5964

Sinomenium acutum, T5972 *Skimmia reevesiana*, T5976 *Smilax china* [Syn. *Smilax japonica*], T5982 *Smilax sieboldii*, T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*], T6020 *Solanum xanthocarpum*, T6051 *Sorbaria arborea*, T6052 *Sorbaria sorbifolia*, T6066 *Spatholobus suberectus*, T6069 *Speranskia tuberculata*, T6084 *Spiraea prunifolia*, T6086 *Spiraea thunbergii*, T6100 *Stauntonia hexaphylla*, T6118 *Stephania brachyandra*, T6119 *Stephania cepharantha*, T6120 *Stephania delavayi* [Syn. *Stephania epigaea*], T6125 *Stephania elegans*, T6127 *Stephania glabra*, T6128 *Stephania hernandifolia*, T6129 *Stephania japonica*, T6131 *Stephania longa*, T6133 *Stephania sinica*, T6136 *Stephania tetrandra*, T6166 *Strychnos angustiflora*, T6250 *Symplocos caudata*, T6356 *Tetrapanax papyriferus*, T6422 *Thelephora vialis*, T6437 *Thlaspi arvense*, T6440 *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], T6468 *Tinospora sinensis*, T6484 *Trachelospermum jasminoides*, T6540 *Tripterygium hypoglaucum*, T6566 *Tupistra chinensis*, T6580 *Tylophora floribunda*, T6645 *Urena lobata*, T6651 *Urtica cannabina*, T6652 *Urtica dioica*, T6675 *Valeriana amurensis*, T6676 *Valeriana hardwickii*, T6679 *Valeriana officinalis*, T6680 *Valeriana officinalis* var. *latifolia*, T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*], T6727 *Veronica persica*, T6737 *Viburnum luzonicum*, T6738 *Viburnum odoratissimum*, T6771 *Viscum album*, T6772 *Viscum angulatum*, T6773 *Viscum articulatum*, T6774 *Viscum articulatum*, T6775 *Viscum coloratum*, T6777 *Viscum multinerve*, T6787 *Vitex negundo*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*, T6798 *Vitis vinifera*, T6799 *Vitis vinifera*, T6830 *Woodfordia fruticosa*, T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*], T6861 *Zanthoxylum ailanthoides*, T6883 *Zanthoxylum myriacanthum*.

wind-damp impediment pattern T5158 *Populus simonii*.

wind-damp intractable impediment T6184 *Strychnos nux-vomica*, T6193 *Strychnos wallichiana*.

wind-damp lumbago T0122 *Aconitum pendulum*, T1453 *Cissampelos pareira* var. *hirsute*, T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*], T2213 *Dioscorea zingiberensis*, T5794 *Schisandra lancifolia*, T5848 *Securinega suffruticosa*.

wind-damp numbness T1327 *Ceratostigma minus*.

wind-damp numbness pain T5389 *Rabdosia coetsa*.

wind-damp pain T0069 *Achillea wilsoniana*, T0116 *Aconitum nazarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*], T0142 *Acorus calamus*, T0467 *Anemone flaccida*, T0471 *Anemone rivularis*, T0569 *Aralia cordata*, T0574 *Aralia fargesii*, T0729 *Asarum maximum*, T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*], T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*], T1129 *Calophyllum inophyllum*, T1186 *Capsicum annuum*, T1187 *Capsicum frutescens*, T1275 *Cayratia japonica*, T1373 *Chloranthus serratus*, T1932 *Cyclea racemosa*, T2028 *Daphne odora*, T2409 *Equisetum palustre*, T2412 *Equisetum sylvaticum*, T2510 *Eucalyptus globulus*, T2732 *Firmiana simplex*, T3088 *Gynura segetum* [Syn. *Gynura japonica*], T3418 *Incarvillea arguta*, T3436 *Inula nervosa*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T3471 *Iris tectorum*, T3737 *Lemmaphyllum microphyllum* var. *obovatum*, T3765 *Lepisorus ussuriensis*, T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*], T4004 *Lysimachia paridiformis*, T4195

Menyanthes trifoliata, T4423 *Nicandra physaloides*, T4503 *Onychium lucidum*, T4577 *Paederia scandens*, T4778 *Phallus impudicus*, T4823 *Pholidota yunnanensis*, T5122 *Polygonum viscosum*, T5193 *Pratia nummularia*, T5250 *Psammosilene tunicoides*, T5555 *Rodgersia pinnata*, T5563 *Rosa cymosa*, T5586 *Rubia yunnanensis*, T5720 *Sapindus mukorossi*, T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*], T5989 *Solanum aculeatissimum*, T5998 *Solanum dulcamara*, T6003 *Solanum khasianum*, T6014 *Solanum surattense*, T6264 *Syzygium buxifolium*, T6367 *Teucrium quadrifarium*, T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*], T6578 *Tylophora atrofoliculata*, T6689 *Ventilago leiocarpa*, T6742 *Vicia amoena*, T6895 *Zanthoxylum simulans*.

wind-damp pain (external use with high toxicity) T1416 *Cicuta virosa*.

wind-damp pain in lumbus and legs T0151 *Acronychia pedunculata*, T6304 *Taxillus levinei*, T6731 *Veronicastrum sibiricum*.

wind-damp pain in sinew and bone T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*], T1003 *Brandisia hancei*, T1976 *Cyperus iria*, T2062 *Delphinium bonvalotii*, T2081 *Delphinium omeiense*, T2084 *Delphinium potaninii*, T2085 *Delphinium potaninii* var. *jiufengshanense*, T3118 *Hedychium coronarium*, T3285 *Hovenia dulcis*, T4662 *Parthenocissus tricuspidata*, T5298 *Pteris vittata*, T5592 *Rubus hirsutus*, T6889 *Zanthoxylum podocarpum*.

wind-damp pain in sinews and bones T1746 *Corydalis taliensis*.

wind-damp papules T6476 *Torilis japonica*.

wind-damp sore toxin T6477 *Torreya grandis*.

wind-damp with painful swollen joints T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*].

wind-damp-heat impediment T0594 *Ardisia crenata*, T0635 *Aristolochia moupinensis*, T1561 *Clerodendron serratum*, T1569 *Clerodendrum serratum* var. *amplexifolium*, T3913 *Lonicera japonica*, T4060 *Mahonia confusa*, T4064 *Mahonia gracilipes*, T4575 *Pachysandra terminalis*, T4582 *Paeonia delavayi*, T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*], T4678 *Paulownia fortunei*, T4679 *Paulownia tomentosa*, T5126 *Polypodium virginianum*, T5127 *Polypodium vulgare*, T6386 *Thalictrum foetidum*, T6845 *Xanthoceras sorbifolia*.

wind-fire eye T1251 *Cassya filiformis*, T5907 *Senecio scandens* [Syn. *Senecio chinensis*].

wind-fire toothache T0181 *Adina rubella*, T0364 *Alsophila spinulosa*, T0722 *Arundo donax*, T0922 *Berchemia polyphylla* var. *leioclada*, T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T1869 *Cryptotaenia japonica*, T3432 *Inula helianthus-aquatica*, T3624 *Kalopanax pictum*, T3625 *Kalopanax septemlobus*, T3736 *Lemmaphyllum microphyllum*, T4605 *Panax japonicus* var. *major*, T5184 *Potentilla kleiniana*, T6234 *Swertia punicea*, T6250 *Symplocos caudata*, T6378 *Thalictrum delavayi*.

wind-heat common cold T0319 *Allium schoenoprasum*, T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*], T0584 *Arctium lappa*, T0586 *Arctium lappa*, T0784 *Astilbe chinensis*, T0888 *Beesia calthaeifolia*, T1106 *Caesalpinia minax*, T1425 *Cimicifuga simplex*, T1633 *Commelina communis*, T1746 *Corydalis taliensis*, T1931 *Cyclea barbata*, T2244 *Doellingeria scaber* [Syn. *Aster scaber*], T2281 *Dryopteris crassirhizoma*, T2325 *Eichhornia crassipes*, T2555 *Eupatorium chinense*, T2756 *Forsythia suspensa*, T3340 *Hypericum*

- ascyron*, T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T4056 *Mahonia bealei*, T4063 *Mahonia fortunei*, T4067 *Mahonia japonica*, T4186 *Mentha piperita*, T4289 *Morus alba*, T4291 *Morus australis*, T4293 *Morus cathayana*, T4298 *Morus mongolica*, T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*], T4527 *Orixa japonica*, T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*], T4884 *Picria felterrae*, T6023 *Solidago virgaurea*, T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*], T6234 *Swertia punicea*, T6338 *Tephrosia purpurea*, T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*], T6367 *Teucrium quadrifarium*, T6431 *Thesium chinense*, T6567 *Tupistra wattii* [Syn. *Campylandra wattii*], T6735 *Viburnum dilatatum*.
- wind-heat common cold and headache** T0571 *Aralia decaisneae*.
- wind-heat cough** T0834 *Averrhoa carambola*, T3928 *Lotus corniculatus*, T6219 *Swertia erythrosticta*, T6537 *Tripterospermum japonicum*, T6538 *Tripterospermum taiwanense*.
- wind-heat exterior syndrome** T3738 *Lemna minor*, T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*].
- wind-heat headache** T4143 *Meconopsis horridula*, T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides*.
- wind-heat impediment pain** T1199 *Carduus acanthoides*, T1200 *Carduus crispus*, T1903 *Curcuma aromatica*, T1905 *Curcuma longa*.
- wind-heat itching of skin** T1296 *Celosia argentea*.
- wind-heat macular eruption** T0860 *Balanophora japonica*.
- wind-heat red eye** T0984 *Bos taurus domesticus*; *Bubalus bubalis*, T2408 *Equisetum hiemale*.
- wind-heat toothache** T2077 *Delphinium grandiflorum*.
- wind-phlegm cough** T0805 *Astragalus sinicus*.
- wind-phlegm dizziness** T0088 *Aconitum coreanum*, T0617 *Arisaema amurense*, T0618 *Arisaema consanguineum*, T0620 *Arisaema heterophyllum*, T4903 *Pinellia pedatisecta*.
- withered-yellow facial complexion** T5042 *Podocarpus macrophyllum*, T5044 *Podocarpus macrophyllum* var. *maki*.
- wolf-fistula** T2427 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus*.
- women's diseases** T0495 *Angelica sinensis*, T1978 *Cyperus rotundus*, T4804 *Phlojodicarpus sibiricus*.
- women's hormone dysfunction diseases** T1419 *Cimicifuga dahurica*, T1420 *Cimicifuga foetida*, T1421 *Cimicifuga heracleifolia*.
- worm accumulation** T0606 *Areca catechu*, T1210 *Carpesium abrotanoides*, T2048 *Daucus carota*, T2365 *Enteromorpha clathrata*, T2695 *Ferula assafoetida*, T3460 *Iris halophila*, T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*], T5385 *Quisqualis indica*, T5542 *Rhus verniciflua* [Syn. *Toxicadendron verniciflum*], T5720 *Sapindus mukorossi*, T6105 *Stellera chamaejasme*, T6177 *Strychnos ignatii*.
- wound** T0311 *Allium cepa*, T0543 *Apis mellifera ligustica*, T2293 *Dumortiera hirsuta*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3578 *Juncus effusus*, T4253 *Mirabilis jalapa*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T5308 *Pterocarya stenoptera*.
- wound swelling from knocks and falls** T1287 *Celastrus hypoleucus*, T1799 *Crinum latifolium*, T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*], T2538 *Euonymus bungeanus*, T3796 *Libanotis buchtormensis*, T3990 *Lygodium japonicum*, T4549 *Osbeckia chinensis*, T4605 *Panax japonicus* var. *major*, T4937 *Piper betle*, T5785 *Schefflera venulosa*.
- wrenching and contusion** T0483 *Angelica gigas*.
- wrenching and contusion from knocks and falls** T1958 *Cynanchum otophyllum*, T2273 *Drynaria fortunei*, T5252 *Pseudodrynaria coronans*.
- yang brightness headache** T1425 *Cimicifuga simplex*.
- yang vacuity cold diarrhea** T1901 *Curculigo orchoides*.
- yang vacuity dizziness** T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*].
- yang vacuity external contraction** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.
- yang-collapse reversal flow** T6909 *Zingiber officinale*.
- yang-collapse vacuity desertion** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.
- yellow eyes** T6398 *Thalictrum microgynum*.
- yellow sweating** T6764 Vinegar.
- yellow swelling** T1538 *Clausena lansium*, T6018 *Solanum verbascifolium*, T6866 *Zanthoxylum avicennae*.
- yellow swelling in whole body** T6398 *Thalictrum microgynum*.
- yellow thick foul leukorrhagia** T4789 *Phellodendron amurense*, T4790 *Phellodendron amurense* var. *wilsonii*, T4791 *Phellodendron chinense*, T4792 *Phellodendron chinense* var. *glabriusculum*.
- yellow thick vaginal discharge** T3564 *Juglans mandshurica*.
- yellow-water sore** T0557 *Aquilegia ecalcarata*, T1163 *Campylotropis hirtella*, T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*], T2165 *Dictamnus angustifolius*, T2167 *Dictamnus dasycarpus*, T3246 *Hibiscus syriacus*, T3340 *Hypericum ascyron*, T3348 *Hypericum elodeoides*, T3368 *Hypericum wightianum*, T3680 *Lamium amplexicaule*, T4830 *Phryma leptostachya*, T4845 *Physalis alkekengi*, T5033 *Poa sphondylodes*, T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*].
- yin cold abdominal pain** T0310 *Allium ascalonicum*, T0314 *Allium fistulosum*.
- yin cold edema** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.
- yin damage liquid depletion** T2094 *Dendrobium aduncum*, T2096 *Dendrobium aurantiacum* var. *denneanum*, T2098 *Dendrobium chrysanthum*, T2100 *Dendrobium densiflorum*, T2102 *Dendrobium fimbriatum* var. *oculatum*, T2105 *Dendrobium loddigesii*, T2106 *Dendrobium moniliforme*, T2107 *Dendrobium nobile*, T2108 *Dendrobium officinale*.
- yin depletion and effulgent fire** T4610 *Panax quinquefolium*.
- yin flat abscess** T5109 *Polygonum nodosum*, T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*].
- yin flat abscess and phlegm node** T2367 *Ephedra equisetina*, T2368 *Ephedra gerardiana*, T2369 *Ephedra intermedia*, T2372 *Ephedra likiangensis*, T2373 *Ephedra minuta*, T2375 *Ephedra monosperma*, T2379 *Ephedra saxatilis*, T2380 *Ephedra sinica*.
- yin flat abscess and sores** T0083 *Aconitum carmichaeli*, T0085 *Aconitum carmichaeli* cv.

- yin summerheat and headache** T4305 *Mosla dianthera*.
- yin syndrome with sores** T0440 *Anagallis arvensis*.
- yin vacuity and heat vexation** T3001 *Glycine max*.
- yin vacuity blood heat** T2323 *Eclipta prostrata* [Syn. *Eclipta alba*].
- yin vacuity consumption fever** T3983 *Lycoris aurea*.
- yin vacuity cough** T1969 *Cynoglossum officinale*, T4450 *Nuphar pumilum*.
- yin vacuity enduring cough** T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*], T3835 *Lilium longiflorum*, T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*], T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*].
- yin vacuity fever** T0660 *Artemisia annua*, T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*], T3276 *Homo sapiens*, T6104 *Stellaria dichotoma* var. *lanceolata*.
- yin vacuity internal heat** T6087 *Spiranthes sinensis*.
- yin vacuity lung dryness** T0749 *Asparagus filicinus*, T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*], T3873 *Liriope platyphylla*, T3874 *Liriope spicata*.
- yin vacuity taxation cough** T2783 *Fritillaria cirrhosa*, T2784 *Fritillaria delavayi*, T2792 *Fritillaria przewalskii*, T2796 *Fritillaria unibracteata*, T2797 *Fritillaria ussuriensis*, T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*], T5092 *Polygonatum kingianum*, T5095 *Polygonatum sibiricum*.
- yin vacuity taxation fever** T3390 *Ilex cornuta*.
- yin vacuity tidal fever** T6416 *Thamnia vermicularis*.
- yin vacuity tuberculosis** T0607 *Arenaria juncea*, T3090 *Gypsophila oldhamiana*, T3091 *Gypsophila pacifica*, T5955 *Silene jensseensis*.
- zoster** T0543 *Apis mellifera ligustica*, T0805 *Astragalus sinicus*, T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], T1151 *Camellia sinensis* [Syn. *Thea sinensis*], T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*], T1799 *Crinum latifolium*, T1869 *Cryptotaenia japonica*, T1959 *Cynanchum paniculatum*, T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*], T2658 *Fagopyrum esculentum*, T3233 *Heteropappus altaicus*, T3311 *Hydrocotyle sibthorpioides*, T3318 *Hylotelephium mingjinianum*, T3865 *Lippia nodiflora*, T3970 *Lycopodium cernuum*, T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*], T3990 *Lygodium japonicum*, T4248 *Mimosa pudica*, T5184 *Potentilla kleiniana*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6092 *Stachys palustris*, T6217 *Swertia davidii*.